Former Tivoli Water Tower Site

SITE CHARACTERIZATION REPORT

19 Pine Street, Tivoli, New York

(DEC Site No. 314135)

August 2025

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1.0 Certification

I, Steven J. McCague certify that I am currently a NYS registered Professional Engineer as defined in 6 NYCRR Part 375 and that this SITE CHARACTERIZATION REPORT was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER- 10) and Green Remediation (DER-31).

091117	August 5, 2025	Steven J. McCague
NYS P.E Number	Date	Signature

2.0 Introduction

The property characterized during the investigation is known as the Former Tivoli Water Tower site (site) and is located at 19 Pine Street, Tivoli, New York (Tax ID 6175-18-459087) on a 1.4-acre lot. The site is located in the Village of Tivoli, Dutchess County, New York at 19 Pine Street on a 1.4-acre lot. This particular location is the location of the former Tivoli water tower directly east of Tivoli Memorial Park. The site is located just northwest of village center. It is bordered by Pine St. to the south and residential properties to the north and east. The site is located approximately 150' (feet) above sea level, roughly 0.75 miles east of the Hudson River, and 0.25 miles west of the Stony Creek.

The site consists partly of a basketball court (the remainder on the adjacent parcel), a community garden, and the rest open lawn. It is relatively flat across the site. The site is in residential zoning district, R-15, of Tivoli, NY.

Historically, this site was the location of the Tivoli water tower, which was used as a public water storage facility. Historic imagery suggests a water tower was present on site since around the 1940's. The tower was demolished in September 2021 as part of the Dutchess County Water and Wastewater Authority (DCWWA) water system upgrade project in the Village. Throughout its history the area has been used as a recreational facility which is still in use today.

Given previous data collected at the site, the New York State Department of Environmental Conservation (NYSDEC) determined that a site characterization as defined in DER-10 Section 3.1 was required in order to determine if contaminants are present at concentrations exceeding applicable standards, criteria, and guidance (SCGs). This document presents the work completed and the sampling results obtained under the May 2024 Site Characterization Work Plan.

3.0 Background

The site is currently owned by the Village of Tivoli. As a part of the demolition procedure, Gianco Environmental Services, of Melville, New York, collected pre- and post-demolition surficial soil samples for lead adjacent to each leg of the water tower, and at two background locations located east of the former water tower in 2020. There were several soil samples with lead levels above the applicable use-based soil cleanup objectives for the protection of public health in both the pre- and post-demolition samples. As defined in 6 NYCRR Part 375 Section 1.8(g)(2)(ii), the site is considered for restricted-residential use as it is owned by a single owner and includes active recreational uses, which are public uses with a reasonable potential for soil contact. This potential exposure risk for the site use warranted additional investigation resulting in the classification as a potential site (P-Site), ID #314135, under the inactive hazardous waste disposal site program or State Superfund (SSF).

Tighe & Bond completed a soil assessment summary in December of 2022 to further delineate the extent of the lead contamination attributed to the historic water tower. Findings of this investigation were outlined in the *Soil Assessment Summary*

Report, dated December 19th, 2022. Samples were collected at the 0-6 inch and 6–12-inch intervals at the historic water tower location. An X-Ray Florescence meter (XRF) was utilized within the historic tower footprint and community garden to assess additional areas of the surface soil. Lead laboratory analyses were only performed on select soil samples from both areas. One sample submitted for lab analysis exceeded the restricted residential soil cleanup objective (RRSCO). Based on information available, lead, mercury, chromium, antimony, barium, cadmium, copper, zinc, and other heavy metals were historically incorporated into paints. The NYSDEC determined this investigation was not sufficient to reclassify the P-site as it was not conducted under a NYSDEC-approved work plan, and the analysis incorporated into the investigation was only limited to lead.

4.0 Site Characterization Overview

On May 8th, 2024 personnel with the New York State Department of Environmental Conservation (NYSDEC) mobilized to the site to characterize the surface soils on-site. The SC was completed in accordance with DER-10 and the scope outlined in the work plan dated May 2024, and the Quality Assurance/Quality Control (QA/QC) contained in Appendix A therein. The site characterization was completed to determine whether lead and other heavy metals may be present at hazardous levels posing a threat to public or ecological health, and if further investigation is warranted. Work performed consisted of screening surface soils in the area of the historic water tower and the community garden located on-site with an X-Ray Florescence meter (XRF). Based on the results of the XRF screening, select locations were chosen to collect soil samples for laboratory analysis. XRF screening and soil sampling locations were documented and located by a NYSDEC Licensed Land Surveyor.

5.0 Geology and Hydrogeology

Previous investigations indicate the site surface soils consist of fine to coarse grained sand and silt, presumably a component of the glacial till identified on the USGS surface soils map for the location. According to the USGS Hudson Mohawk Bedrock geology map, the site sits above the Austin Glen Formation which consists of greywacke, with alternating intervals of sandstone, siltstone, and shale. Depth to bedrock is unknown. Regarding specific hydrogeology and groundwater flow, it is likely that groundwater flows east towards Stony Creek, but previous investigations did not include the installation of groundwater wells or piezometers to document groundwater elevations. Observations made during this investigation suggest surface soils on-site consist of primarily silt and sand which is consistent with the USGS surface soils map for the area of the site.

6.0 Surface Soil Field Screening Procedures and Results

A Niton XL3t GOLDD+ XRF was utilized to screen the surface soil approximately every twenty (20) feet, in a gridded pattern in the area of the historic water tower pad (pad) and upwards to forty (40) feet beyond the extent of the pad. Surface soils were screened particularly for lead at the 0–2-inch and 6-12 inch intervals at 42 locations in

the area of and around the water tower pad and at the 0-2 inch interval at six (6) locations in the community garden. Soil sample screening locations are shown in Figure 2. Three (3) locations were screened in the southern eight (8) beds of the community garden and the location of the soil sample “CG1” was chosen based on the highest screening value. The same method was used to determine the sampling location of “CG2” in the northern eight (8) beds of the community garden. A total of 96 surface soil locations were screened in and around the pad at the two specified intervals. The presumed sampling locations outlined in the Site Characterization Work Plan were used as a guide, and the highest screening results were chosen to bias the locations of the soil samples for laboratory analysis.

One-hundred and two (102) XRF measurements were obtained during the field operations. The screening results for lead ranged from 12 parts per million (ppm), at the location identified as CG2 in the community garden, to 2882 ppm, identified as X82, which is the location of SB4 in the footprint of the water tower. Forty-two (42) field measurements exceeded the Unrestricted SCO for lead of 63 ppm. With the exception of 2 of the 102 XRF measurements at X82 and X83, all field measurements were below the Restricted Residential SCO for lead of 400 ppm. The XRF measurements were compared to SCOs only as a reference and confirmatory lab samples were collected and are discussed later in the report. All XRF data can be found on Table 1 along with the crossed reference soil sample identifications.

A field calibrated (PID) was also utilized to screen surface soils at every XRF screening location. No readings above 0.0 ppm were observed on the day of sampling. This result was expected considering the intervals at which the soils were screened, and the use of the area only being utilized as a recreational area.

7.0 Surface Soil Sampling Procedures and Results

Field activities included the collection of twenty-one (21) surface soil samples at the 0-2 inch and the 6-12 inch interval. All samples were obtained by digging a two (2)-inch plug followed by removing soil to a depth of 12 inches in the same hole with a spade shovel. Five (5) surface soil samples were collected and analyzed for full suite analysis of VOCs (USEPA Method 8260), SVOCs (USEPA Method 8270) Target Analyte List (TAL) metals, (USEPA Methods 6010/7471) polychlorinated biphenyls (PCBs) (USEPA Method 8082), pesticides (USEPA Method 8081), cyanide (USEPA Method 9010C),1,4-Dioxane (USEPA Method 8270 SIM), and Per- and Polyfluoroalkyl Substances (PFAS) (USEPA Method 1633). An additional 13 surface soil samples were collected and analyzed for the Target Analyte List of metals under USEPA Methods 6010 and 7471. All samples were analyzed by an ELAP-certified laboratory with Category B deliverables. Sample collection and analysis was completed in accordance with the site-specific QA/QC plan. A field duplicate, and matrix-spike/matrix-spike duplicate (MS/MSD) was also included as part of the soil sampling plan.

Analytical soil data was compared to the NYSDEC Subpart 375-6 Restricted Residential Soil Cleanup Objectives (RRSCOs). All PFAS analytical soil data were

assessed using guidance values for Restricted Residential use provided in the *Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS)*, under NYSDEC's Part 375 Remedial Programs, dated April 2023.

Of the 21 surface soil samples collected, exceedances were only detected in one (1) soil sampling location which included the soil samples SB4 and SB4A. Lead was detected at 3800 ppm at the 0-2 inch interval, identified as SB4, and at 4600 ppm at the 6-12 inch interval, identified as SB4A. These detections are both above the RRSCO of 400 ppm and above the maximum background lead detection of 150 ppm. Analytical results of metals are shown in Table 2A. The total PCBs in SB4A as detected at 1.1 ppm which minorly exceeded the RRSCO of 1.0 ppm. Analytical results of PCBs are shown in Table 2C. No other PCB or metal exceedances were detected above RRSCOs in any of the other samples.

Of the 21 surface soil samples collected, no exceedances above RRSCOs were detected for VOCs, SVOCs, Pesticides, PFAS, Cyanide, or 1,4 Dioxane. No exceedances were detected above RRSCOs in background soil samples, B1 and B1A, and no exceedances were detected in the community garden samples, CG-1 and CG-2. Soil analytical results are presented in Table 2. Surface soil sampling locations are shown in Figure 3.

8.0 Deviations from the Work Plan

On the day of mobilization, surface water was not observed on-site; therefore, surface water samples or outfall sediment samples were not field screened or collected as outlined in the May 2024 Site Characterization Work Plan.

The work plan states that a Human Health Exposure Assessment will be prepared as an element of this report. This assessment has not been prepared since the purpose of this investigation was to determine if contaminants are present at concentrations exceeding applicable standards, criteria, and guidance (SCGs). Results are presented and potential exposure routes are identified based on the results of this investigation in the *Conclusions and Recommendations* section later in the report.

9.0 Green and Sustainable Remediation

The following Best Management Practices (BMPs) were applied to make site characterization practices greener and more sustainable:

- Hand digging the sampling locations instead of using a drilling rig or other means of heavy machinery power.
- Using an XRF to screen for metals.
- Limiting IDW by returning soil back to the area it was removed from.
- Carpooling personnel to and from the site while conducting fieldwork.

10.0 Data Usability

A Data Usability Summary Report (DUSR) was prepared by Environmental Assessment & Remediations which is included in Appendix C of this report. Some data was rejected which is associated with the background samples. The DUSR states: *Within laboratory control sample, Hexachlorocylopentadiene is qualified as rejected "R" values within samples due to recovery below laboratory limits within laboratory control sample B374087-BS1/BSD1. While the other LCS had analytes with recovery above laboratory criteria, but no detection within samples, thus no need for qualification.* Some data was also rejected which is associated with the matrix sample obtained. The report states: *Within matrix sample B374725-MS2, analyte Antimony was recovered below 30% and not detected within parent sample led to a qualification of rejected "R" values. All qualification applied to parent sample SB1A.*

Considering these two rejected analytes associated with its corresponding sample, the data obtained as a part of this investigation is deemed usable and meets criteria for compliance with all associated EPA methods.

11.0 Conclusions and Recommendations

The objective of the site characterization at the Former Tivoli Water Tower site was to determine if contaminants were present at concentrations exceeding applicable standards, criteria, and guidance (SCGs) related to the historic water tower operations on-site including VOCs, SVOCs, PCBs, pesticides, metals, cyanide,1,4 Dioxane, and PFOS. A limited number of soil samples were collected in locations biased relative to the highest XRF screening measurements recorded on-site.

Following sampling activities, it was determined that only one sampled location contained elevated concentrations of lead and PCBs. Lead was detected at a concentration above the RRSCOs in this location in both the 0-2 inch and 6-12 inch intervals, and PCBs was detected at a concertation slightly exceeding the RRSCO in the 6-12 inch interval. While the concentrations in this specific location are above the RRSCO, it is likely that this area contained an elevated amount of paint chips from the historic water tower in this location, leading to the lead and PCB contamination. No other samples exhibited exceedances of analyzed compounds above RRSCOs on-site.

The community garden beds did not exhibit any exceedances above RRSCOs. This result was expected since it is assumed that the soil in the garden beds is from an off-site source. Contaminants present on and around the water tower footprint were identified and a vast majority of the samples did not exhibit exceedances above the RRSCOs.

In consultation with the New York State Department of Health, based on the presence of elevated lead in shallow surface samples in the location of SB4 (3,800 ppm at the 0-2-inch interval) and SB4A (4,600 ppm at the 6–12-inch interval), the NYSDEC recommends that these soils are excavated and removed from the site. A work plan will

be required to remove these soils with endpoint sampling incorporated. The work plan should also include the proper precautions taken while the work is completed, the proper disposal method of the lead contaminated soil, and the source of the clean fill material to be used as backfill.

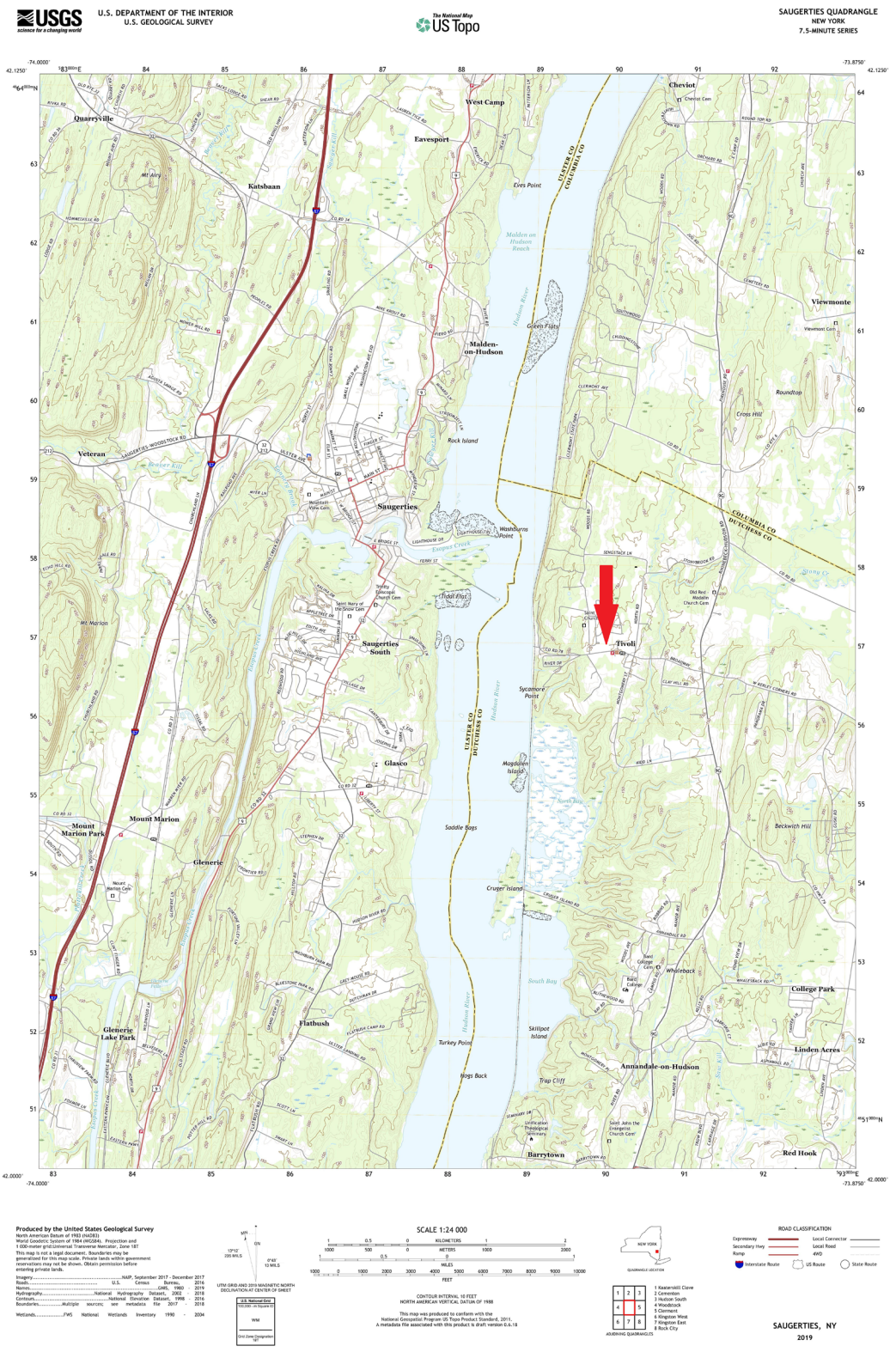

Figure 1: Site Location Map

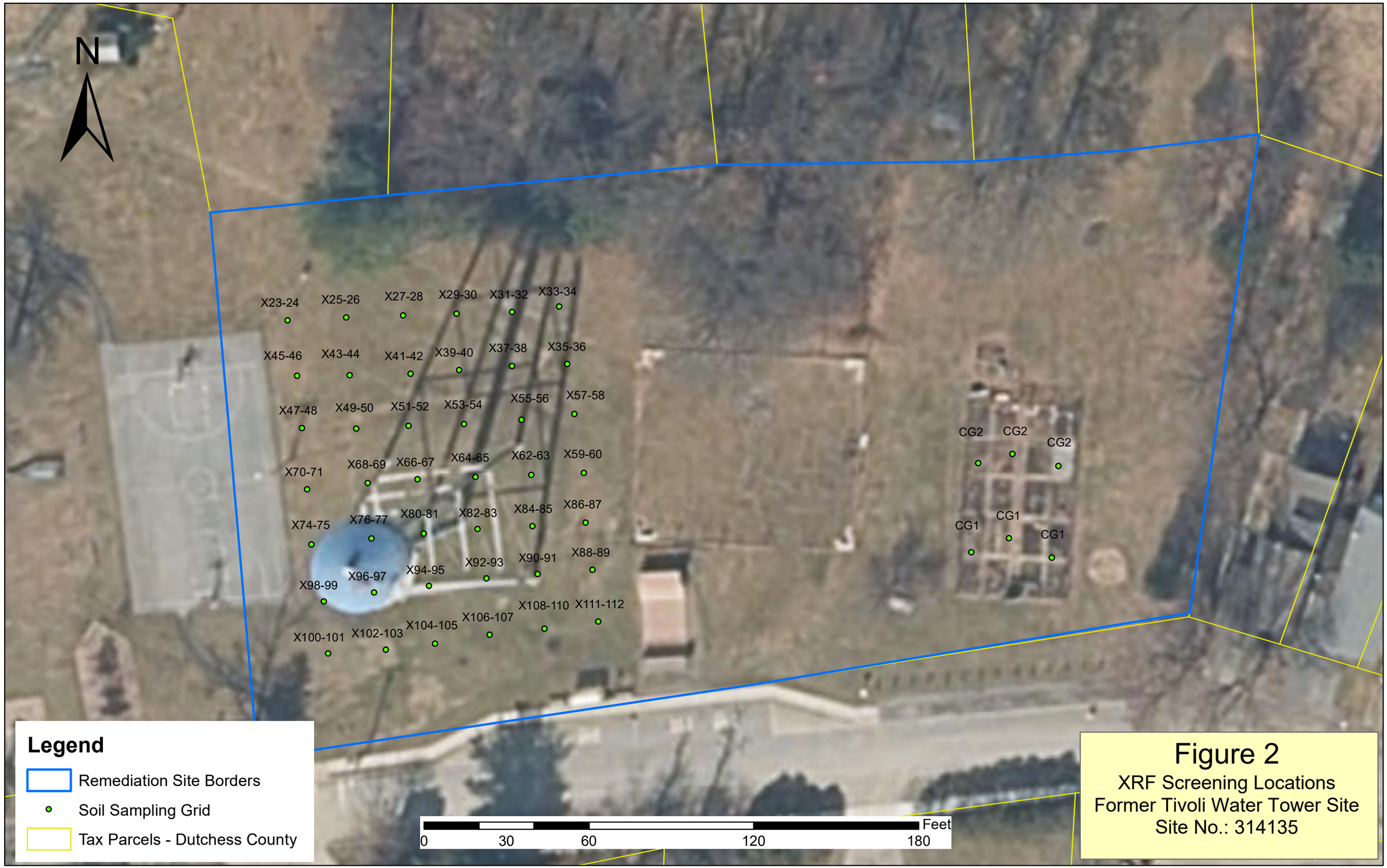

Figure 2

XRF Screening Locations
Former Tivoli Water Tower Site
Site No.: 314135

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	RRSCO	SB4	SB4A
Lead	400	3800	4600
Total PCBs	1	NS	1.1

SB1/SB1A

SB2/SB2A

SB3/SB3A

SB4/SB4A

SB5/SB5A

SB6/SB6A

SB7/SB7A

B1/B1A

CG2

CG1

Katherine Lane

Legend

- Remediation Site Borders
- Soil Sampling Locations
- XRF Screening Grid
- Tax Parcels - Dutchess County

0 30 60 120 180 Feet

Figure 3

Soil Sample Locations
Former Tivoli Water Tower Site
Site No.: 314135

Table 1
XRF Screening Results

Description	Screened Lead Concentration (ppm)	Cross Reference
X23	36	
X24	53	
X25	34	
X26	33	
X27	70	
X28	24	
X29	50	
X30	44	
X31	29	
X32	34	
X33	29	
X34	32	
X35	28	
X36	29	
X37	145	
X38	128	
X39	151	
X40	161	
X41	60	
X42	56	
X43	36	SB1
X44	31	SB1A, (MS/MSD)
X45	31	
X46	35	
X47	17	
X48	24	
X49	44	
X50	39	
X51	93	
X52	89	
X53	104	
X54	90	
X55	131	SB2
X56	61	SB2A
X57	41	
X58	48	
X59	90	
X59	90	
X60	27	
X62	187	
X63	169	
X64	191	
X65	154	
X66	171	
X67	116	
X68	44	

Description	Screened Lead Concentration (ppm)	Cross Reference
X69	32	
X70	17	
X71	15	
X74	19	
X75	25	
X76	50	SB3
X77	41	SB3A
X80	117	
X81	81	
X82	2882	SB4
X83	2359	SB4A
X84	67	SB5
X85	55	SB5A
X86	31	
X87	37	
X88	87	
X89	21	
X90	207	
X91	312	
X92	30	
X93	76	
X94	157	SB6
X95	129	SB6A
X96	40	
X97	21	
X98	26	
X99	18	
X100	54	
X101	64	
X102	177	
X103	114	
X104	98	
X105	58	
X106	46	
X107	62	
X108	206	SB7 (DUP)
X110	139	SB7A
X111	64	
X112	52	
X110	139	
X111	64	
X112	52	
B1	84	
B1A	94	
CG1	18	
CG1	46	

Description	Screened Lead Concentration (ppm)	Cross Reference
CG2	39	
CG2	29	
CG2	12	

Above RRSCOs

Above UUSCOs

Table 2
Soil Data Tables

Table 2A Metals in Soil

	NYSDEC Sample ID	CG-1	CG-2	B1	B1A	SB1	SB1A	SB2	SB2A	SB3	SB3A	SB4	SB4A	SB5	SB5A	SB6	SB6A	SB7	SB7A	DUP
	Date Sampled	5/8/24	5/8/24	5/8/2024	5/8/24	5/8/24	5/8/24	5/8/24	5/8/24	5/8/2024	5/8/24	5/8/24	5/8/24	5/8/24	5/8/24	5/8/2024	5/8/24	5/8/24	5/8/24	5/8/24
	Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Compound	**RRSCO**																			
Aluminum		11000	9600	15000	9500	15000	16000	16000	16000	15000	15000	16000	18000	16000	17000	15000	16000	14000	13000	14000
Antimony		<0.67	<0.68	<0.74	<0.50	<0.64	<0.60	<0.62	<0.55	<0.51	<0.52	<0.57	<0.54	<0.61	<0.58	<0.54	<0.53	<0.62	<0.53	<0.63
Arsenic	16	4.7	3.9	6.9	5.2	4.4	5.4	5.5	6.3	6.1	5.1	7	6.8	5.1	5.4	8.9	6.3	4.6	4.9	4.7
Barium	400	96	80	110	69	91	91	160	130	100	100	330	390	130	140	150	120	100	99	100
Beryllium	72	0.47	0.43	0.73	0.4	0.7	0.69	1.1	0.77	0.65	0.67	1.1	1.1	0.86	0.9	0.76	0.87	0.57	0.54	0.58
Cadmium	4.3	0.49	0.42	0.47	0.28	0.29	0.26	0.3	0.26	0.32	0.36	1.8	4	0.29	0.28	0.29	0.28	0.38	0.41	0.36
Calcium		20000	17000	6700	41000	4100	5300	4200	9700	11000	9300	9900	12000	4200	3900	26000	4200	5500	9300	4800
Chromium		15	14	19	10	18	17	25	20	18	19	110	150	22	23	24	23	20	22	19
Cobalt		8.6	7.4	10	6.6	11	11	16	14	12	12	16	17	13	14	12	14	9.6	8.9	9.8
Copper	270	41	36	38	20	37	34	88	180	40	39	120	75	62	62	56	59	40	43	39
Iron		22000	21000	30000	20000	30000	29000	35000	34000	33000	35000	43000	49000	32000	33000	33000	36000	27000	26000	26000
Lead	400	44	36	150	55	45	41	200	120	76	64	3800	4600	110	110	220	130	190	190	170
Magnesium		6100	7200	5300	12000	4200	4200	5200	6000	5800	6400	5500	6700	5100	5300	5300	5900	4600	6800	4400
Manganese	2000	880	630	640	650	510	560	740	820	660	810	670	850	740	740	570	630	620	650	600
Mercury	0.81	0.066	0.056	0.14	0.11	0.063	0.057	0.083	0.071	0.048	0.058	0.15	0.14	0.068	0.076	0.069	0.075	0.071	0.065	0.064
Nickel	310	19	17	24	15	26	24	52	57	27	29	63	46	38	38	34	39	23	24	23
Potassium		1700	1800	1400	750	910	890	1800	1600	1500	1500	2000	2000	2000	2000	1900	1900	1100	1000	1100
Selenium	180	<1.3	<1.3	<1.4	<0.93	<1.2	<1.1	<1.1	<1.0	<0.94	<0.97	<1.1	<1.0	<1.1	<1.1	<1.0	<0.98	<1.1	<0.99	<1.2
Silver	180	<0.31	<0.31	<0.34	<0.23	<0.30	<0.28	<0.28	<0.25	<0.23	<0.24	<0.26	<0.25	<0.28	<0.27	<0.25	<0.24	<0.28	<0.25	<0.29
Sodium		<75	<75	<83	<56	<72	<67	<69	67	<56	<58	75	82	<68	<65	73	61	<69	<59	<71
Thallium		<0.80	<0.81	<0.89	<0.60	<0.77	<0.72	<0.74	<0.66	<0.61	<0.62	<0.68	<0.64	<0.73	<0.70	<0.64	<0.63	<0.74	<0.64	<0.76
Vanadium		17	16	31	23	22	22	26	24	22	23	25	27	24	26	24	25	30	36	27
Zinc	10000	130	98	160	68	94	88	210	130	100	100	730	1100	150	140	140	150	120	130	130

Units: mg/kg

Table 2B PFAS and 1,4 Dioxane in Soil

	NYSDEC Sample ID	CG-2	B1A	SB1A	SB4A	SB7	DUP
	Date Sampled	5/8/24	5/8/24	5/8/2024	5/8/24	5/8/24	5/8/24
	Matrix	Soil	Soil	Soil	Soil	Soil	Soil
Compound	**RRSCO**						
1,4-Dioxane	13 (mg/kg)	<0.061 (mg/kg)	<0.044 (mg/kg)	<0.054 (mg/kg)	<0.051 (mg/kg)	<0.055 (mg/kg)	<0.056 (mg/kg)
Perfluorobutanoic acid (PFBA)		<0.32	<0.32	<0.32	<0.32	<0.32	<0.32
Perfluoropentanoic acid (PFPeA)		0.17	<0.044	0.05	0.1	0.082	0.13
Perfluorohexanoic acid (PFHxA)		0.23	0.051	0.053	0.1	0.083	0.12
Perfluoroheptanoic acid (PFHpA)		0.085	0.043	0.048	0.081	0.12	0.14
Perfluorooctanoic acid (PFOA)	6.6	0.29	0.2	0.2	0.33	0.49	0.4
Perfluorononanoic acid (PFNA)		0.13	0.031	0.077	0.11	0.21	0.2
Perfluorodecanoic acid (PFDA)		0.15	0.018	0.043	0.046	0.11	0.096
Perfluoroundecanoic acid (PFUnA)		0.085	<0.023	0.044	0.048	0.12	0.11
Perfluorododecanoic acid (PFDoA)		0.08	<0.021	<0.022	0.023	0.047	0.041
Perfluorotridecanoic acid (PFTrDA)		0.036	<0.022	<0.022	0.023	0.04	0.031
Perfluorotetradecanoic acid (PFTeDA)		0.039	<0.020	<0.020	<0.020	0.023	<0.020
Perfluorobutanesulfonic acid (PFBS)		0.035	<0.020	<0.021	0.035	0.035	0.034
Perfluoropentanesulfonic acid (PFPeS)		<0.025	<0.025	<0.026	<0.025	<0.025	<0.026
Perfluorohexanesulfonic acid (PFHxS)		<0.078	<0.077	<0.078	<0.077	<0.077	<0.079
Perfluoroheptanesulfonic acid (PFHpS)		<0.021	<0.021	<0.021	<0.021	<0.021	<0.021
Perfluorooctanesulfonic acid (PFOS)	8.8	0.45	0.14	0.25	0.3	0.62	0.55
Perfluorononanesulfonic acid (PFNS)		<0.022	<0.022	<0.022	<0.022	<0.022	<0.022
Perfluorodecanesulfonic acid (PFDS)		<0.032	<0.031	<0.032	<0.031	<0.031	<0.032
Perfluorododecanesulfonic acid (PFDoS)		<0.030	<0.030	<0.030	<0.030	<0.030	<0.031
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)		<0.069	<0.068	<0.070	<0.068	<0.068	<0.070
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)		<0.50	<0.49	<0.50	<0.49	<0.49	<0.50
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)		<0.092	<0.091	<0.093	<0.091	<0.091	<0.093
Perfluorooctanesulfonamide (PFOSA)		<0.031	<0.030	<0.031	<0.030	<0.030	<0.031
N-methyl perfluorooctanesulfonamide (NMeFOSA)		<0.025	<0.024	<0.025	<0.024	<0.024	<0.025
N-ethyl perfluorooctanesulfonamide (NEtFOSA)		<0.023	<0.023	<0.023	<0.023	<0.023	<0.023
N-MeFOSAA (NMeFOSAA)		<0.036	<0.035	<0.036	<0.035	<0.035	<0.036
N-EtFOSAA (NEtFOSAA)		<0.030	<0.029	<0.030	<0.029	<0.029	<0.030
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)		<0.21	<0.21	<0.22	<0.21	<0.21	<0.22
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)		<0.21	<0.21	<0.21	<0.21	<0.21	<0.22
Hexafluoropropylene oxide dimer acid (HFPO-DA)		<0.051	<0.050	<0.051	<0.050	<0.050	<0.051
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)		<0.059	<0.058	<0.060	<0.058	<0.058	<0.060
9Cl-PF3ONS (F53B Minor)		<0.057	<0.056	<0.058	<0.056	<0.056	<0.058
11Cl-PF3OUdS (F53B Major)		<0.088	<0.086	<0.088	<0.086	<0.087	<0.089
3-Perfluoropropyl propanoic acid (FPrPA)(3:3FTCA)		<0.19	<0.19	<0.19	<0.19	<0.19	<0.19
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)		<1.3	<1.3	<1.3	<1.3	<1.3	<1.3
3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTCA)		<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)		<0.031	<0.031	<0.031	<0.031	<0.031	<0.032
Perfluoro-3-methoxypropanoic acid (PFMPA)		<0.032	<0.032	<0.033	<0.032	<0.032	<0.033
Perfluoro-4-methoxybutanoic acid (PFMBA)		<0.033	<0.032	<0.033	<0.032	<0.032	<0.033
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)		<0.060	<0.059	<0.060	<0.059	<0.059	<0.060

Units: µg/kg

Table 2C Pesticides and PCBs in Soil

	NYSDEC Sample ID	CG-2	B1A	SB1A	SB4A	SB7	DUP
	Date Sampled	5/8/24	5/8/24	5/8/2024	5/8/24	5/8/24	5/8/24
	Matrix	Soil	Soil	Soil	Soil	Soil	Soil
Compound	**RRSCO**						
alpha-Chlordane	4.2	<0.034	<0.051	<0.0031	<0.028	<0.064	<0.033
gamma-Chlordane		<0.032	<0.047	<0.0029	<0.027	<0.060	<0.031
Aldrin	0.097	<0.0073	<0.011	<0.00065	<0.0060	<0.013	<0.0069
alpha-BHC	0.48	<0.035	<0.052	<0.0031	<0.029	<0.065	<0.033
beta-BHC	0.36	<0.039	<0.058	<0.0035	<0.033	<0.073	<0.038
delta-BHC	100	<0.039	<0.058	<0.0035	<0.033	<0.073	<0.037
gamma-BHC (Lindane)		<0.010	<0.015	<0.00092	<0.0085	<0.019	<0.0098
4,4'-DDD	13	<0.013	<0.019	<0.0011	<0.010	<0.023	<0.012
4,4'-DDE	8.9	<0.0066	<0.0096	<0.00058	<0.0054	<0.012	<0.0062
4,4'-DDT	1.7	<0.0076	0.021	<0.00068	<0.0063	<0.014	<0.0073
Dieldrin	0.2	<0.0071	<0.010	<0.00063	<0.0059	<0.013	<0.0067
Endosulfan I	24	<0.036	<0.052	<0.0032	<0.029	<0.066	<0.034
Endosulfan II	24	<0.032	<0.047	<0.0028	<0.026	<0.059	<0.030
Endosulfan Sulfate	24	<0.029	<0.042	<0.0026	<0.024	<0.053	<0.027
Endrin	11	<0.038	<0.055	<0.0034	<0.031	<0.070	<0.036
Endrin Aldehyde		<0.029	<0.043	<0.0026	<0.024	<0.054	<0.028
Endrin Ketone		<0.030	<0.044	<0.0027	<0.025	<0.055	<0.028
Heptachlor	2.1	<0.0081	<0.012	<0.00073	<0.0068	<0.015	<0.0078
Heptachlor Epoxide		<0.0086	<0.013	<0.00077	<0.0071	<0.016	<0.0082
Methoxychlor		<0.071	<0.11	<0.0064	<0.059	<0.13	<0.068
Toxaphene		<0.62	<0.91	<0.055	<0.51	<1.1	<0.59
Aroclor-1016		<0.029	<0.022	<0.026	<0.024	<0.027	<0.028
Aroclor-1221		<0.055	<0.040	<0.048	<0.046	<0.051	<0.052
Aroclor-1232		<0.029	<0.021	<0.025	<0.024	<0.027	<0.028
Aroclor-1242		<0.033	<0.024	<0.029	<0.027	<0.030	<0.031
Aroclor-1248		<0.028	<0.021	<0.025	<0.024	<0.026	<0.027
Aroclor-1254		0.089	<0.026	<0.031	1.1	0.091	0.11
Aroclor-1260		<0.025	<0.018	<0.022	<0.020	<0.023	<0.023
Aroclor-1262		<0.031	<0.023	<0.027	<0.025	<0.028	<0.029
Aroclor-1268		<0.031	<0.023	<0.027	<0.026	<0.029	<0.030
Total PCBs	1	0.089	ND	ND	1.1	0.091	0.11

Units: mg/kg

Table 2D SVOCs in Soil

	NYSDEC Sample ID	CG-2	B1A	SB1A	SB4A	SB7	DUP
	Date Sampled	5/8/24	5/8/24	5/8/2024	5/8/24	5/8/24	5/8/24
	Matrix	Soil	Soil	Soil	Soil	Soil	Soil
Compound	**RRSCO**						
Acetone	100	<0.080	<0.080	<0.065	0.056	<0.078	0.073
Benzene	4.8	<0.00097	<0.00096	<0.00079	<0.00067	<0.00094	<0.00088
Bromochloromethane		<0.0013	<0.0013	<0.0011	<0.00092	<0.0013	<0.0012
Bromodichloromethane		<0.00079	<0.00079	<0.00064	<0.00055	<0.00077	<0.00072
Bromoform		<0.0014	<0.0013	<0.0011	<0.00094	<0.0013	<0.0012
Bromomethane		<0.0027	<0.0027	<0.0022	<0.0019	<0.0027	<0.0025
2-Butanone (MEK)	100	<0.013	<0.013	<0.011	<0.0091	<0.013	<0.012
n-Butylbenzene	100	<0.0011	<0.0011	<0.00091	<0.00078	<0.0011	<0.0010
sec-Butylbenzene	100	<0.0012	<0.0012	<0.0010	<0.00086	<0.0012	<0.0011
tert-Butylbenzene	100	<0.0011	<0.0011	<0.00091	<0.00078	<0.0011	<0.0010
Carbon Disulfide		<0.016	<0.015	<0.013	<0.011	<0.015	<0.014
Carbon Tetrachloride	2.4	<0.00090	<0.00089	<0.00073	<0.00062	<0.00087	<0.00082
Chlorobenzene	100	<0.00074	<0.00074	<0.00061	<0.00052	<0.00073	<0.00068
Chlorodibromomethane		<0.0010	<0.0010	<0.00083	<0.00071	<0.00099	<0.00093
Chloroethane		<0.0022	<0.0022	<0.0018	<0.0015	<0.0021	<0.0020
Chloroform	49	<0.0010	<0.0010	<0.00082	<0.00070	<0.00099	<0.00092
Chloromethane		<0.0019	<0.0019	<0.0015	<0.0013	<0.0018	<0.0017
Cyclohexane		<0.0063	<0.0063	<0.0051	<0.0044	<0.0061	<0.0057
1,2-Dibromo-3-chloropropane (DBCP)		<0.0012	<0.0012	<0.0010	<0.00087	<0.0012	<0.0011
1,2-Dibromoethane (EDB)		<0.0011	<0.0011	<0.00092	<0.00078	<0.0011	<0.0010
1,2-Dichlorobenzene	100	<0.00099	<0.00098	<0.00080	<0.00069	<0.00097	<0.00090
1,3-Dichlorobenzene	49	<0.00089	<0.00089	<0.00072	<0.00062	<0.00087	<0.00081
1,4-Dichlorobenzene	13	<0.00096	<0.00095	<0.00078	<0.00067	<0.00094	<0.00088
Dichlorodifluoromethane (Freon 12)		<0.0014	<0.0013	<0.0011	<0.00094	<0.0013	<0.0012
1,1-Dichloroethane	26	<0.00094	<0.00094	<0.00076	<0.00066	<0.00092	<0.00086
1,2-Dichloroethane	3.1	<0.0011	<0.0011	<0.00086	<0.00074	<0.0010	<0.00097
1,1-Dichloroethylene		<0.0015	<0.0015	<0.0012	<0.0010	<0.0014	<0.0014
cis-1,2-Dichloroethylene	100	<0.0011	<0.0011	<0.00087	<0.00075	<0.0010	<0.00098
trans-1,2-Dichloroethylene	100	<0.00092	<0.00092	<0.00075	<0.00064	<0.00090	<0.00084
1,2-Dichloropropane		<0.00095	<0.00095	<0.00077	<0.00066	<0.00093	<0.00087
cis-1,3-Dichloropropene		<0.0012	<0.0012	<0.00095	<0.00082	<0.0011	<0.0011
trans-1,3-Dichloropropene		<0.0012	<0.0012	<0.00097	<0.00083	<0.0012	<0.0011
Ethylbenzene	41	<0.00089	<0.00089	<0.00072	<0.00062	<0.00087	<0.00081
2-Hexanone (MBK)		<0.011	<0.011	<0.0086	<0.0074	<0.010	<0.0097
Isopropylbenzene (Cumene)		<0.0012	<0.0012	<0.00097	<0.00083	<0.0012	<0.0011
p-Isopropyltoluene (p-Cymene)		<0.0010	<0.0010	<0.00081	<0.00070	<0.00098	<0.00091
Methyl Acetate		<0.0021	<0.0020	<0.0017	<0.0014	0.0022	<0.0019
Methyl tert-Butyl Ether (MTBE)	100	<0.0014	<0.0014	<0.0011	<0.00095	<0.0013	<0.0012
Methyl Cyclohexane		<0.0011	<0.0011	<0.00090	<0.00077	<0.0011	<0.0010
Methylene Chloride		<0.0014	<0.0014	<0.0012	<0.0010	<0.0014	<0.0013
4-Methyl-2-pentanone (MIBK)		<0.014	<0.014	<0.011	<0.0095	<0.013	<0.012
Naphthalene		<0.0015	<0.0015	<0.0012	<0.0011	<0.0015	<0.0014
n-Propylbenzene		<0.0010	<0.0010	<0.00083	<0.00071	<0.0010	<0.00093
Styrene		<0.00098	<0.00098	<0.00080	<0.00068	<0.00096	<0.00090
1,1,2,2-Tetrachloroethane		<0.0012	<0.0012	<0.00097	<0.00083	<0.0012	<0.0011
Tetrachloroethylene	19	<0.0013	<0.0013	<0.0011	<0.00094	<0.0013	<0.0012
Toluene		<0.00091	<0.00091	<0.00074	<0.00064	<0.00089	<0.00084
1,2,3-Trichlorobenzene		<0.0010	<0.0010	<0.00083	<0.00071	<0.0010	<0.00093
1,2,4-Trichlorobenzene		<0.0010	<0.0010	<0.00083	<0.00071	<0.00099	<0.00093
1,1,1-Trichloroethane	100	<0.00092	<0.00091	<0.00074	<0.00064	<0.00089	<0.00084
1,1,2-Trichloroethane		<0.00080	<0.00079	<0.00065	<0.00055	<0.00078	<0.00073
Trichloroethylene		<0.0012	<0.0012	<0.00095	<0.00081	<0.0011	<0.0011
Trichlorofluoromethane (Freon 11)		<0.0018	<0.0018	<0.0015	<0.0013	<0.0018	<0.0017
1,2,3-Trichloropropane		<0.0013	<0.0012	<0.0010	<0.00087	<0.0012	<0.0011
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)		<0.0016	<0.0016	<0.0013	<0.0011	<0.0016	<0.0015
1,2,4-Trimethylbenzene	52	<0.0015	<0.0015	<0.0012	<0.0010	<0.0015	<0.0014
1,3,5-Trimethylbenzene	52	<0.0012	<0.0012	<0.0010	<0.00086	<0.0012	<0.0011
Vinyl Chloride	0.9	<0.0012	<0.0012	<0.00098	<0.00084	<0.0012	<0.0011
m+p Xylene		<0.0022	<0.0022	<0.0018	<0.0016	<0.0022	<0.0020
o-Xylene		<0.0010	<0.0010	<0.00085	<0.00073	<0.0010	<0.00095
Xylenes (total)	100	<0.0031	<0.0031	<0.0025	<0.0022	<0.0030	<0.0028
Cyanide	27	0.88	<0.41	<0.48	<0.44	0.53	<0.53

Units: mg/kg

Table 2E VOCs in Soil

	NYSDEC Sample ID	CG-2	B1A	SB1A	SB4A	SB7	DUP
	Date Sampled	5/8/24	5/8/24	5/8/2024	5/8/24	5/8/24	5/8/24
	Matrix	Soil	Soil	Soil	Soil	Soil	Soil
Compound	**RRSCO**						
2,3,4,6-Tetrachlorophenol		<0.072	<0.053	<0.063	<0.058	<0.065	<0.065
Atrazine		<0.068	<0.050	<0.060	<0.055	<0.062	<0.062
Benzaldehyde		0.18	<0.063	<0.075	<0.068	0.086	0.098
Biphenyl		<0.067	<0.050	<0.059	<0.054	<0.061	<0.061
Caprolactam		<0.092	<0.068	<0.081	<0.074	<0.084	<0.084
Acenaphthene	100	<0.051	<0.038	<0.045	<0.041	<0.046	<0.046
Acenaphthylene	100	<0.048	<0.035	<0.042	<0.039	<0.044	<0.044
Acetophenone		<0.055	<0.041	<0.049	<0.045	<0.050	<0.050
Aniline		<0.092	<0.068	<0.081	<0.074	<0.084	<0.084
Anthracene	100	<0.047	<0.035	<0.041	<0.038	<0.043	<0.043
Benzo(a)anthracene	1	0.11	0.041	<0.038	<0.035	<0.039	<0.039
Benzo(a)pyrene	1	0.16	0.058	<0.042	<0.039	<0.044	<0.044
Benzo(b)fluoranthene	1	0.28	0.064	<0.038	<0.035	<0.039	<0.039
Benzo(g,h,i)perylene	100	0.21	0.065	<0.067	<0.061	<0.069	<0.069
Benzo(k)fluoranthene	3.9	0.098	<0.035	<0.042	<0.039	<0.044	<0.044
Bis(2-chloroethoxy)methane		<0.057	<0.042	<0.050	<0.046	<0.052	<0.052
Bis(2-chloroethyl)ether		<0.075	<0.056	<0.067	<0.061	<0.069	<0.069
Bis(2-chloroisopropyl)ether		<0.33	<0.25	<0.30	<0.27	<0.30	<0.30
Bis(2-Ethylhexyl)phthalate		<0.063	<0.046	<0.055	<0.051	<0.057	<0.057
4-Bromophenylphenylether		<0.048	<0.036	<0.043	<0.039	<0.044	<0.044
Butylbenzylphthalate		<0.059	<0.044	<0.052	<0.048	<0.054	<0.054
Carbazole		<0.053	<0.040	<0.047	<0.043	<0.049	<0.049
4-Chloroaniline		<0.094	<0.069	<0.083	<0.076	<0.086	<0.085
4-Chloro-3-methylphenol		<0.055	<0.041	<0.049	<0.045	<0.050	<0.050
2-Chloronaphthalene		<0.046	<0.034	<0.041	<0.037	<0.042	<0.042
2-Chlorophenol		<0.053	<0.039	<0.047	<0.043	<0.049	<0.048
4-Chlorophenylphenylether		<0.044	<0.032	<0.039	<0.035	<0.040	<0.040
Chrysene	3.9	0.18	0.06	<0.042	<0.038	<0.043	<0.043
Dibenz(a,h)anthracene	0.33	<0.073	<0.054	<0.065	<0.059	<0.067	<0.067
Dibenzofuran		<0.047	<0.035	<0.042	<0.038	<0.043	<0.043
Di-n-butylphthalate		<0.20	<0.15	<0.18	<0.16	<0.18	<0.18
3,3-Dichlorobenzidine		<0.11	<0.085	<0.10	<0.092	<0.10	<0.10
2,4-Dichlorophenol		<0.050	<0.037	<0.044	<0.041	<0.046	<0.046
Diethylphthalate		<0.051	<0.038	<0.045	<0.041	<0.047	<0.047
2,4-Dimethylphenol		<0.12	<0.091	<0.11	<0.099	<0.11	<0.11
Dimethylphthalate		<0.050	<0.037	<0.044	<0.040	<0.046	<0.046
4,6-Dinitro-2-methylphenol		<0.42	<0.31	<0.37	<0.34	<0.38	<0.38
2,4-Dinitrophenol		<0.41	<0.30	<0.36	<0.33	<0.37	<0.37
2,4-Dinitrotoluene		<0.054	<0.040	<0.047	<0.043	<0.049	<0.049
2,6-Dinitrotoluene		<0.056	<0.041	<0.049	<0.045	<0.051	<0.051
Di-n-octylphthalate		<0.075	<0.055	<0.066	<0.060	<0.068	<0.068
Fluoranthene	100	0.16	0.063	0.071	<0.035	<0.040	<0.040
Fluorene	100	<0.047	<0.035	<0.042	<0.038	<0.043	<0.043
Hexachlorobenzene		<0.051	<0.038	<0.045	<0.041	<0.047	<0.047
Hexachlorobutadiene		<0.048	<0.035	<0.042	<0.039	<0.044	<0.044
Hexachlorocyclopentadiene		<0.35	<0.26	<0.31	<0.28	<0.32	<0.32
Hexachloroethane		<0.049	<0.036	<0.043	<0.039	<0.045	<0.045
Indeno(1,2,3-cd)pyrene	0.5	0.19	<0.064	<0.076	<0.069	<0.078	<0.078
Isophorone		<0.056	<0.042	<0.050	<0.045	<0.051	<0.051
1-Methylnaphthalene		<0.053	<0.039	<0.047	<0.043	<0.048	<0.048
2-Methylnaphthalene		<0.045	<0.033	<0.040	<0.036	<0.041	<0.041
2-Methylphenol		<0.071	<0.052	<0.063	<0.057	<0.065	<0.065
3/4-Methylphenol		<0.070	<0.052	<0.062	<0.056	<0.064	<0.064
Naphthalene	100	<0.093	<0.069	<0.082	<0.075	<0.085	<0.085
2-Nitroaniline		<0.064	<0.048	<0.057	<0.052	<0.059	<0.059
3-Nitroaniline		<0.11	<0.082	<0.097	<0.089	<0.10	<0.10
4-Nitroaniline		<0.059	<0.044	<0.052	<0.048	<0.054	<0.054
Nitrobenzene		<0.067	<0.049	<0.059	<0.054	<0.061	<0.061
2-Nitrophenol		<0.052	<0.038	<0.046	<0.042	<0.047	<0.047
4-Nitrophenol		<0.14	<0.10	<0.12	<0.11	<0.13	<0.13
N-Nitrosodiphenylamine/Diphenylamine		<0.067	<0.050	<0.059	<0.054	<0.061	<0.061
N-Nitrosodi-n-propylamine		<0.074	<0.055	<0.065	<0.060	<0.067	<0.067
Pentachlorophenol	6.7	<0.19	<0.14	<0.17	<0.15	<0.17	<0.17
Phenanthrene	100	<0.047	<0.035	<0.042	<0.038	<0.043	<0.043
Phenol		<0.067	<0.050	<0.059	<0.054	<0.061	<0.061
Pyrene	100	0.15	0.11	0.082	<0.045	0.053	0.057
Pyridine		<0.062	<0.046	<0.055	<0.050	<0.056	<0.056
1,2,4,5-Tetrachlorobenzene		<0.052	<0.039	<0.046	<0.042	<0.048	<0.048
2,4,5-Trichlorophenol		<0.054	<0.040	<0.048	<0.044	<0.049	<0.049
2,4,6-Trichlorophenol		<0.050	<0.037	<0.044	<0.041	<0.046	<0.046

Units: mg/kg

Appendix A

con-test®
A Pace Analytical® Laboratory

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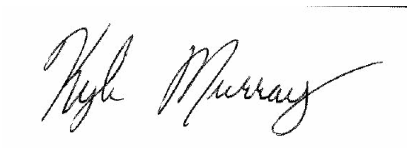
May 30, 2024

Ryan Richard
NYS Division of Environmental Remediation
21 South Putt Corners Rd.
New Paltz, NY 12561

Project Location: 19 Pine St, Tivoli, NY
Client Job Number:
Project Number: 314135
Laboratory Work Order Number: 24E1437

Enclosed are results of analyses for samples as received by the laboratory on May 10, 2024. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kyle A. Murray
Project Manager

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NYS Division of Environmental Remediation
21 South Putt Corners Rd.
New Paltz, NY 12561
ATTN: Ryan Richard

REPORT DATE: 5/30/2024

PURCHASE ORDER NUMBER: 149634

PROJECT NUMBER: 314135

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24E1437

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: 19 Pine St, Tivoli, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
CG-1	24E1437-01	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
CG-2	24E1437-02	Soil		Draft Method 1633	
				SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	
B1	24E1437-03	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
B1A	24E1437-04	Soil		Draft Method 1633	
				SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	
SB1	24E1437-05	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
SB1A	24E1437-06	Soil		Draft Method 1633	
				SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	
SB2	24E1437-07	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 7471B	

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ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24E1437

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PROJECT LOCATION: 19 Pine St, Tivoli, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SB2A	24E1437-08	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
SB3	24E1437-09	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
SB3A	24E1437-10	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
SB4	24E1437-11	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
SB4A	24E1437-12	Soil		Draft Method 1633	
				SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	
SB5	24E1437-13	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
SB5A	24E1437-14	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
SB6	24E1437-15	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
SB6A	24E1437-16	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 7471B	

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REPORT DATE: 5/30/2024

PURCHASE ORDER NUMBER: 149634

PROJECT NUMBER: 314135

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24E1437

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: 19 Pine St, Tivoli, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SB7	24E1437-17	Soil		Draft Method 1633	
				SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	
SB7A	24E1437-18	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
DUP	24E1437-19	Soil		Draft Method 1633	
				SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

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Draft Method 1633

Qualifications:

B

Analyte is found in the associated laboratory blank as well as in the sample.

Analyte & Samples(s) Qualified:

1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS
B374779-BS1, B374779-MRL1

B-05

Data is not affected by elevated level in laboratory blank since sample(s) result is "Not Detected".

Analyte & Samples(s) Qualified:

1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS
24E1437-19RE1[DUP], B374779-BLK1

MS-07A

Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:

2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FT
24E1437-06[SB1A], B374213-MS1, B374213-MSD1

PF-17

Extracted Internal Standard recovery is outside of control limits. Data is not significantly affected since associated analyte is not detected and bias is on the high side.

Analyte & Samples(s) Qualified:

13C2-6:2FTS
24E1437-02[CG-2]

13C2-8:2FTS
24E1437-02[CG-2]

1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS
24E1437-02[CG-2]

1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS
24E1437-02[CG-2]

PF-22

Qualifier ion ratio >150% of associated calibration. Detection is suspect.

Analyte & Samples(s) Qualified:

Perfluorotetradecanoic acid (PFTeDA)
24E1437-02[CG-2]

R-06

Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.

Analyte & Samples(s) Qualified:

2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FT
B374213-MSD1

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

N-MeFOSAA (NMeFOSAA)
24E1437-02[CG-2], 24E1437-04[B1A], 24E1437-06[SB1A], 24E1437-12[SB4A], 24E1437-17[SB7], B374213-BLK1, B374213-BS1, B374213-MRL1, B374213-MS1, B374213-MSD1, S104823-CCV1

SW-846 6010D

Qualifications:

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

Manganese
B374725-BS1

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MS-19

Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

Analyte & Samples(s) Qualified:

Aluminum
24E1437-06[SB1A], B374725-MS1, B374725-MSD1, B374725-PS1

Calcium
24E1437-06[SB1A], B374725-MS1, B374725-MSD1, B374725-PS1

Iron
24E1437-01[CG-1], 24E1437-06[SB1A], B374725-MS3, B374725-MSD3, B374725-PS3

Magnesium
B374725-PS1

Manganese
24E1437-06[SB1A], B374725-MS1, B374725-MSD1, B374725-PS1

MS-22

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:

Barium
24E1437-06[SB1A], B374725-MS1

Potassium
24E1437-06[SB1A], B374725-MS1

Sodium
24E1437-06[SB1A], B374725-MSD1

Z-01

Matrix Spike and Matrix Spike Duplicate recoveries are outside of control limits. Analysis is in control based on Laboratory Fortified Blank and Post Digestion Spike recoveries.

Analyte & Samples(s) Qualified:

Antimony
24E1437-06[SB1A], B374725-MS4, B374725-MSD4, B374725-PS1

SW-846 8081B

Qualifications:

DL-03

Elevated reporting limit due to matrix.

Analyte & Samples(s) Qualified:

24E1437-02[CG-2], 24E1437-02RE1[CG-2], 24E1437-04[B1A], 24E1437-04RE1[B1A], 24E1437-12[SB4A], 24E1437-12RE1[SB4A], 24E1437-17[SB7], 24E1437-17RE1[SB7], 24E1437-19[DUP], 24E1437-19RE1[DUP]

R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

Methoxychlor
24E1437-02[CG-2], 24E1437-04[B1A], 24E1437-06[SB1A], 24E1437-12[SB4A], 24E1437-17[SB7], 24E1437-19[DUP], B374053-BLK1, B374053-BS1, B374053-BSD1, B374053-MS1, B374053-MSD1

V-06

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:

4,4'-DDD [2C]
B374053-BS1, B374053-BSD1, B374053-MS1, B374053-MSD1

SW-846 8260D

Qualifications:

L-02

Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.

Analyte & Samples(s) Qualified:

Chloromethane
B374129-BS1, B374129-BSD1, B374129-MS1, B374129-MSD1

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MS-07A

Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:

Bromomethane

24E1437-06[SB1A], B374129-MS1, B374129-MSD1

MS-15

Matrix spike and matrix spike duplicate recoveries are outside of control limits. Data validation is not affected since results for this compound in this sample are "not detected", and recovery bias is on the high side.

Analyte & Samples(s) Qualified:

Carbon Disulfide

B374129-MS1, B374129-MSD1

Chloromethane

B374129-MS1, B374129-MSD1

Dichlorodifluoromethane (Freon 12)

B374129-MS1, B374129-MSD1

Methyl Acetate

B374129-MS1, B374129-MSD1

MS-24

Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Analysis is in control based on laboratory fortified blank recovery.

Analyte & Samples(s) Qualified:

Chloroethane

B374129-MS1

Trichlorofluoromethane (Freon 11)

B374129-MS1

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

Dichlorodifluoromethane (Freon 12)

24E1437-02[CG-2], 24E1437-04[B1A], 24E1437-06[SB1A], 24E1437-12[SB4A], 24E1437-17[SB7], 24E1437-19[DUP], B374129-BLK1, B374129-BS1, B374129-BSD1, B374129-MS1, B374129-MSD1, S104464-CCV1

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

4-Methyl-2-pentanone (MIBK)

B374129-BS1, B374129-BSD1, B374129-MS1, B374129-MSD1, S104464-CCV1

Chloromethane

B374129-BS1, B374129-BSD1, B374129-MS1, B374129-MSD1, S104464-CCV1

V-35

Initial calibration verification (ICV) did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

Acetone

24E1437-12[SB4A], 24E1437-19[DUP], B374129-BS1, B374129-BSD1, B374129-MS1, B374129-MSD1, S104464-CCV1

V-36

Initial calibration verification (ICV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

Dichlorodifluoromethane (Freon 12)

B374129-BS1, B374129-BSD1, B374129-MS1, B374129-MSD1, S104464-CCV1

SW-846 8270E

Qualifications:

L-02

Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.

Analyte & Samples(s) Qualified:

Di-n-octylphthalate

B374087-BLK1, B374087-BS1, B374087-BSD1

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L-04

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Hexachlorocyclopentadiene

24E1437-02[CG-2], 24E1437-04[B1A], 24E1437-06[SB1A], 24E1437-12[SB4A], 24E1437-17[SB7], 24E1437-19[DUP], B374087-BLK1, B374087-BS1, B374087-BSD1

L-05

Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the high side.

Analyte & Samples(s) Qualified:

Bis(2-Ethylhexyl)phthalate

24E1437-02[CG-2], 24E1437-04[B1A], 24E1437-06[SB1A], 24E1437-12[SB4A], 24E1437-17[SB7], 24E1437-19[DUP], B374087-BLK1, B374087-BS1, B374087-BSD1

MS-09

Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:

2,3,4,6-Tetrachlorophenol

24E1437-06[SB1A], B374087-MS1, B374087-MSD1

2,4-Dimethylphenol

24E1437-06[SB1A], B374087-MS1, B374087-MSD1

3,3-Dichlorobenzidine

24E1437-06[SB1A], B374087-MS1, B374087-MSD1

4-Chloroaniline

24E1437-06[SB1A], B374087-MS1, B374087-MSD1

Aniline

24E1437-06[SB1A], B374087-MS1, B374087-MSD1

Benzaldehyde

24E1437-06[SB1A], B374087-MS1, B374087-MSD1

Benzo(g,h,i)perylene

24E1437-06[SB1A], B374087-MS1, B374087-MSD1

Fluoranthene

24E1437-06[SB1A], B374087-MS1, B374087-MSD1

Hexachlorocyclopentadiene

24E1437-06[SB1A], B374087-MS1, B374087-MSD1

Hexachloroethane

24E1437-06[SB1A], B374087-MS1, B374087-MSD1

Pentachlorophenol

24E1437-06[SB1A], B374087-MS1, B374087-MSD1

Pyridine

24E1437-06[SB1A], B374087-MS1, B374087-MSD1

MS-22

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:

2-Chloronaphthalene

B374087-MSD1

Dibenz(a,h)anthracene

B374087-MSD1

Indeno(1,2,3-cd)pyrene

B374087-MSD1

S-07

One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.

Analyte & Samples(s) Qualified:

2,4,6-Tribromophenol

24E1437-17[SB7]

S-17

Surrogate recovery is outside of control limits. Data validation is not affected since all associated results are less than the reporting limit and bias is on the high side.

Analyte & Samples(s) Qualified:

1,4-Dioxane-d8

B374074-BLK1

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V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

Hexachlorocyclopentadiene
24E1437-02[CG-2], 24E1437-04[B1A], 24E1437-06[SB1A], 24E1437-12[SB4A], 24E1437-17[SB7], 24E1437-19[DUP], B374087-BLK1, B374087-BS1, B374087-BSD1, B374087-MS1, B374087-MSD1, S104589-CCV1, S104909-CCV1

Pentachlorophenol
24E1437-02[CG-2], 24E1437-04[B1A], 24E1437-06[SB1A], 24E1437-12[SB4A], 24E1437-17[SB7], 24E1437-19[DUP], B374087-BLK1, B374087-BS1, B374087-BSD1, B374087-MS1, B374087-MSD1, S104589-CCV1, S104909-CCV1

V-06

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:

Bis(2-chloroisopropyl)ether
24E1437-02[CG-2], 24E1437-04[B1A], 24E1437-06[SB1A], 24E1437-12[SB4A], 24E1437-17[SB7], 24E1437-19[DUP], B374087-MS1, B374087-MSD1, S104909-CCV1

Bis(2-Ethylhexyl)phthalate
24E1437-02[CG-2], 24E1437-04[B1A], 24E1437-06[SB1A], 24E1437-12[SB4A], 24E1437-17[SB7], 24E1437-19[DUP], B374087-BLK1, B374087-BS1, B374087-BSD1, B374087-MS1, B374087-MSD1, S104589-CCV1, S104909-CCV1

Butylbenzylphthalate
B374087-BLK1, B374087-BS1, B374087-BSD1, S104589-CCV1

Dibenz(a,h)anthracene
B374087-BLK1, B374087-BS1, B374087-BSD1, S104589-CCV1

Di-n-butylphthalate
B374087-BLK1, B374087-BS1, B374087-BSD1, S104589-CCV1

Di-n-octylphthalate
B374087-BLK1, B374087-BS1, B374087-BSD1, B374087-MS1, B374087-MSD1, S104589-CCV1, S104909-CCV1

N-Nitrosodi-n-propylamine
B374087-BS1, B374087-MS1

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

Di-n-octylphthalate
24E1437-02[CG-2], 24E1437-04[B1A], 24E1437-06[SB1A], 24E1437-12[SB4A], 24E1437-17[SB7], 24E1437-19[DUP]

SW-846 9014

Qualifications:

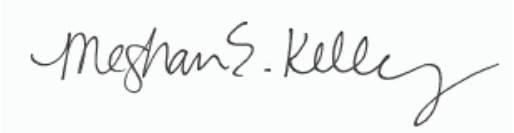
L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

Cyanide
B374399-BS1

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Meghan E. Kelley
Reporting Specialist

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: CG-1 | Sampled: 5/8/2024 10:15

Sample ID: 24E1437-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	11000	25	7.9	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:33	ICP
Antimony	ND	2.5	0.67	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 17:30	NC
Arsenic	4.7	5.0	0.71	mg/Kg dry	1	J	SW-846 6010D	5/17/24	5/22/24 20:33	ICP
Barium	96	2.5	0.54	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:33	ICP
Beryllium	0.47	0.25	0.077	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:33	ICP
Cadmium	0.49	0.50	0.24	mg/Kg dry	1	J	SW-846 6010D	5/17/24	5/22/24 20:33	ICP
Calcium	20000	25	13	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:33	ICP
Chromium	15	1.0	0.64	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:33	ICP
Cobalt	8.6	2.5	0.43	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:33	ICP
Copper	41	2.0	1.8	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:33	ICP
Iron	22000	250	120	mg/Kg dry	10	MS-19	SW-846 6010D	5/17/24	5/22/24 22:48	ICP
Lead	44	0.76	0.53	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:33	ICP
Magnesium	6100	25	5.9	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:33	ICP
Manganese	880	0.50	0.29	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:33	ICP
Mercury	0.066	0.034	0.015	mg/Kg dry	1		SW-846 7471B	5/21/24	5/23/24 15:04	AV
Nickel	19	1.0	0.70	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:33	ICP
Potassium	1700	2500	620	mg/Kg dry	10	D, J	SW-846 6010D	5/17/24	5/22/24 22:48	ICP
Selenium	ND	5.0	1.3	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:33	ICP
Silver	ND	0.50	0.31	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:33	ICP
Sodium	ND	250	75	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:33	ICP
Thallium	ND	2.5	0.80	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 17:30	NC
Vanadium	17	1.0	0.56	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:33	ICP
Zinc	130	1.0	0.89	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:33	ICP

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: CG-1 | Sampled: 5/8/2024 10:15

Sample ID: 24E1437-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	66.1			% Wt	1		SM 2540G	5/13/24	5/13/24 17:51	NC

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: CG-2 | Sampled: 5/8/2024 10:40

Sample ID: 24E1437-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.15	0.080	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
Benzene	ND	0.0031	0.00097	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
Bromochloromethane	ND	0.0031	0.0013	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
Bromodichloromethane	ND	0.0031	0.00079	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
Bromoform	ND	0.0031	0.0014	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
Bromomethane	ND	0.015	0.0027	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
2-Butanone (MEK)	ND	0.062	0.013	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
n-Butylbenzene	ND	0.0031	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
sec-Butylbenzene	ND	0.0031	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
tert-Butylbenzene	ND	0.0031	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
Carbon Disulfide	ND	0.031	0.016	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
Carbon Tetrachloride	ND	0.0031	0.00090	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
Chlorobenzene	ND	0.0031	0.00074	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
Chlorodibromomethane	ND	0.0015	0.0010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
Chloroethane	ND	0.031	0.0022	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
Chloroform	ND	0.0062	0.0010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
Chloromethane	ND	0.015	0.0019	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
Cyclohexane	ND	0.015	0.0063	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0031	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
1,2-Dibromoethane (EDB)	ND	0.0015	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
1,2-Dichlorobenzene	ND	0.0031	0.00099	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
1,3-Dichlorobenzene	ND	0.0031	0.00089	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
1,4-Dichlorobenzene	ND	0.0031	0.00096	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.031	0.0014	mg/Kg dry	1	V-05	SW-846 8260D	5/13/24	5/13/24 7:42	MFF
1,1-Dichloroethane	ND	0.0031	0.00094	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
1,2-Dichloroethane	ND	0.0031	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
1,1-Dichloroethylene	ND	0.0062	0.0015	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
cis-1,2-Dichloroethylene	ND	0.0031	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
trans-1,2-Dichloroethylene	ND	0.0031	0.00092	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
1,2-Dichloropropane	ND	0.0031	0.00095	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
cis-1,3-Dichloropropene	ND	0.0015	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
trans-1,3-Dichloropropene	ND	0.0015	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
Ethylbenzene	ND	0.0031	0.00089	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
2-Hexanone (MBK)	ND	0.031	0.011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
Isopropylbenzene (Cumene)	ND	0.0031	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0031	0.0010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
Methyl Acetate	ND	0.0031	0.0021	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0062	0.0014	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
Methyl Cyclohexane	ND	0.0031	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
Methylene Chloride	ND	0.031	0.0014	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.031	0.014	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
Naphthalene	ND	0.0062	0.0015	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
n-Propylbenzene	ND	0.0031	0.0010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
Styrene	ND	0.0031	0.00098	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: CG-2 | Sampled: 5/8/2024 10:40

Sample ID: 24E1437-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	0.0015	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
Tetrachloroethylene	ND	0.0031	0.0013	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
Toluene	ND	0.0031	0.00091	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
1,2,3-Trichlorobenzene	ND	0.0031	0.0010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
1,2,4-Trichlorobenzene	ND	0.0031	0.0010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
1,1,1-Trichloroethane	ND	0.0031	0.00092	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
1,1,2-Trichloroethane	ND	0.0031	0.00080	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
Trichloroethylene	ND	0.0031	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
Trichlorofluoromethane (Freon 11)	ND	0.015	0.0018	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
1,2,3-Trichloropropane	ND	0.0031	0.0013	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.015	0.0016	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
1,2,4-Trimethylbenzene	ND	0.0031	0.0015	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
1,3,5-Trimethylbenzene	ND	0.0031	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
Vinyl Chloride	ND	0.015	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
m+p Xylene	ND	0.0062	0.0022	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
o-Xylene	ND	0.0031	0.0010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
Xylenes (total)	ND	0.0031	0.0031	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	111	70-130		5/13/24 7:42
Toluene-d8	97.2	70-130		5/13/24 7:42
4-Bromofluorobenzene	80.9	70-130		5/13/24 7:42

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: CG-2 | Sampled: 5/8/2024 10:40

Sample ID: 24E1437-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	1.0	0.072	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Atrazine	ND	1.0	0.068	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Benzaldehyde	0.18	0.53	0.084	mg/Kg dry	1	J	SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Biphenyl	ND	1.0	0.067	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Caprolactam	ND	0.53	0.092	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Acenaphthene	ND	0.27	0.051	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Acenaphthylene	ND	0.27	0.048	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Acetophenone	ND	0.53	0.055	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Aniline	ND	0.53	0.092	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Anthracene	ND	0.27	0.047	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Benzo(a)anthracene	0.11	0.27	0.043	mg/Kg dry	1	J	SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Benzo(a)pyrene	0.16	0.27	0.048	mg/Kg dry	1	J	SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Benzo(b)fluoranthene	0.28	0.27	0.043	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Benzo(g,h,i)perylene	0.21	0.27	0.076	mg/Kg dry	1	J	SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Benzo(k)fluoranthene	0.098	0.27	0.048	mg/Kg dry	1	J	SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Bis(2-chloroethoxy)methane	ND	0.53	0.057	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Bis(2-chloroethyl)ether	ND	0.53	0.075	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Bis(2-chloroisopropyl)ether	ND	0.53	0.33	mg/Kg dry	1	V-06	SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.53	0.063	mg/Kg dry	1	L-05, V-06	SW-846 8270E	5/12/24	5/16/24 16:54	BGL
4-Bromophenylphenylether	ND	0.53	0.048	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Butylbenzylphthalate	ND	0.53	0.059	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Carbazole	ND	0.27	0.053	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
4-Chloroaniline	ND	1.0	0.094	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
4-Chloro-3-methylphenol	ND	1.0	0.055	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
2-Chloronaphthalene	ND	0.53	0.046	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
2-Chlorophenol	ND	0.53	0.053	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
4-Chlorophenylphenylether	ND	0.53	0.044	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Chrysene	0.18	0.27	0.047	mg/Kg dry	1	J	SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Dibenz(a,h)anthracene	ND	0.27	0.073	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Dibenzofuran	ND	0.53	0.047	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Di-n-butylphthalate	ND	0.53	0.20	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
3,3-Dichlorobenzidine	ND	0.27	0.11	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
2,4-Dichlorophenol	ND	0.53	0.050	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Diethylphthalate	ND	0.53	0.051	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
2,4-Dimethylphenol	ND	0.53	0.12	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Dimethylphthalate	ND	0.53	0.050	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
4,6-Dinitro-2-methylphenol	ND	0.53	0.42	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
2,4-Dinitrophenol	ND	1.0	0.41	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
2,4-Dinitrotoluene	ND	0.53	0.054	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
2,6-Dinitrotoluene	ND	0.53	0.056	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Di-n-octylphthalate	ND	0.53	0.075	mg/Kg dry	1	V-20	SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Fluoranthene	0.16	0.27	0.043	mg/Kg dry	1	J	SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Fluorene	ND	0.27	0.047	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Hexachlorobenzene	ND	0.53	0.051	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: CG-2 | Sampled: 5/8/2024 10:40

Sample ID: 24E1437-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.53	0.048	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Hexachlorocyclopentadiene	ND	0.53	0.35	mg/Kg dry	1	L-04, V-05	SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Hexachloroethane	ND	0.53	0.049	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Indeno(1,2,3-cd)pyrene	0.19	0.27	0.086	mg/Kg dry	1	J	SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Isophorone	ND	0.53	0.056	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
1-Methylnaphthalene	ND	0.27	0.053	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
2-Methylnaphthalene	ND	0.27	0.045	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
2-Methylphenol	ND	0.53	0.071	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
3/4-Methylphenol	ND	0.53	0.070	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Naphthalene	ND	0.27	0.093	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
2-Nitroaniline	ND	0.53	0.064	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
3-Nitroaniline	ND	0.53	0.11	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
4-Nitroaniline	ND	0.53	0.059	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Nitrobenzene	ND	0.53	0.067	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
2-Nitrophenol	ND	0.53	0.052	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
4-Nitrophenol	ND	1.0	0.14	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	0.53	0.067	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
N-Nitrosodi-n-propylamine	ND	0.53	0.074	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Pentachlorophenol	ND	0.53	0.19	mg/Kg dry	1	V-05	SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Phenanthrene	ND	0.27	0.047	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Phenol	ND	0.53	0.067	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Pyrene	0.15	0.27	0.055	mg/Kg dry	1	J	SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Pyridine	ND	0.53	0.062	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.53	0.052	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
2,4,5-Trichlorophenol	ND	0.53	0.054	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
2,4,6-Trichlorophenol	ND	0.53	0.050	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	57.7	30-130		5/16/24 16:54
Phenol-d6	55.8	30-130		5/16/24 16:54
Nitrobenzene-d5	61.9	30-130		5/16/24 16:54
2-Fluorobiphenyl	61.3	30-130		5/16/24 16:54
2,4,6-Tribromophenol	49.8	30-130		5/16/24 16:54
p-Terphenyl-d14	71.3	30-130		5/16/24 16:54

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: CG-2 | Sampled: 5/8/2024 10:40

Sample ID: 24E1437-02

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.077	0.061	mg/Kg dry	1		SW-846 8270E	5/10/24	5/13/24 19:23	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	35.1	15-110		5/13/24 19:23

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: CG-2 | Sampled: 5/8/2024 10:40

Sample ID: 24E1437-02

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.79	0.32	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 9:52	QNW
Perfluoropentanoic acid (PFPeA)	0.17	0.40	0.045	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 9:52	QNW
Perfluorohexanoic acid (PFHxA)	0.23	0.20	0.033	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 9:52	QNW
Perfluoroheptanoic acid (PFHpA)	0.085	0.20	0.014	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 9:52	QNW
Perfluorooctanoic acid (PFOA)	0.29	0.20	0.031	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 9:52	QNW
Perfluorononanoic acid (PFNA)	0.13	0.20	0.014	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 9:52	QNW
Perfluorodecanoic acid (PFDA)	0.15	0.20	0.017	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 9:52	QNW
Perfluoroundecanoic acid (PFUnA)	0.085	0.20	0.023	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 9:52	QNW
Perfluorododecanoic acid (PFDoA)	0.080	0.20	0.022	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 9:52	QNW
Perfluorotridecanoic acid (PFTrDA)	0.036	0.20	0.022	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 9:52	QNW
Perfluorotetradecanoic acid (PFTeDA)	0.039	0.20	0.020	µg/kg dry	1	PF-22, J	Draft Method 1633	5/15/24	5/18/24 9:52	QNW
Perfluorobutanesulfonic acid (PFBS)	0.035	0.20	0.021	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 9:52	QNW
Perfluoropentanesulfonic acid (PFPeS)	ND	0.20	0.025	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 9:52	QNW
Perfluorohexanesulfonic acid (PFHxS)	ND	0.20	0.078	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 9:52	QNW
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.20	0.021	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 9:52	QNW
Perfluorooctanesulfonic acid (PFOS)	0.45	0.20	0.032	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 9:52	QNW
Perfluorononanesulfonic acid (PFNS)	ND	0.20	0.022	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 9:52	QNW
Perfluorodecanesulfonic acid (PFDS)	ND	0.20	0.032	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 9:52	QNW
Perfluorododecanesulfonic acid (PFDoS)	ND	0.20	0.030	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 9:52	QNW
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.79	0.069	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 9:52	QNW
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.79	0.50	µg/kg dry	1	PF-17	Draft Method 1633	5/15/24	5/18/24 9:52	QNW
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.79	0.092	µg/kg dry	1	PF-17	Draft Method 1633	5/15/24	5/18/24 9:52	QNW
Perfluorooctanesulfonamide (PFOSA)	ND	0.20	0.031	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 9:52	QNW
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.20	0.025	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 9:52	QNW
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.20	0.023	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 9:52	QNW
N-MeFOSAA (NMeFOSAA)	ND	0.20	0.036	µg/kg dry	1	V-05	Draft Method 1633	5/15/24	5/18/24 9:52	QNW
N-EtFOSAA (NEtFOSAA)	ND	0.20	0.030	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 9:52	QNW
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	2.0	0.21	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 9:52	QNW
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	2.0	0.21	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 9:52	QNW
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.79	0.051	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 9:52	QNW
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.79	0.059	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 9:52	QNW
9Cl-PF3ONS (F53B Minor)	ND	0.79	0.057	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 9:52	QNW
11Cl-PF3OUdS (F53B Major)	ND	0.79	0.088	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 9:52	QNW
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	2.0	0.19	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 9:52	QNW
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	9.9	1.3	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 9:52	QNW
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	9.9	1.5	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 9:52	QNW
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.40	0.031	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 9:52	QNW
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.40	0.032	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 9:52	QNW

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: CG-2 | Sampled: 5/8/2024 10:40

Sample ID: 24E1437-02

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.40	0.033	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 9:52	QNW
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.40	0.060	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 9:52	QNW

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
13C4-PFBA	85.3		10-130		5/18/24 9:52
13C5-PFPeA	90.7		35-150		5/18/24 9:52
13C5-PFHxA	87.5		55-150		5/18/24 9:52
13C4-PFHpA	94.2		55-150		5/18/24 9:52
13C8-PFOA	87.4		60-140		5/18/24 9:52
13C9-PFNA	87.6		55-140		5/18/24 9:52
13C6-PFDA	90.5		50-140		5/18/24 9:52
13C7-PFUnA	96.5		30-140		5/18/24 9:52
13C2-PFDoA	88.7		10-150		5/18/24 9:52
13C2-PFTeDA	43.0		10-130		5/18/24 9:52
13C3-PFBS	88.1		55-150		5/18/24 9:52
13C3-PFHxS	88.7		55-150		5/18/24 9:52
13C8-PFOS	91.7		45-140		5/18/24 9:52
13C2-4:2FTS	171		60-200		5/18/24 9:52
13C2-6:2FTS	**236**	*	60-200	PF-17	5/18/24 9:52
13C2-8:2FTS	**223**	*	50-200	PF-17	5/18/24 9:52
13C8-PFOSA	56.1		30-130		5/18/24 9:52
D3-NMeFOSA	30.4		15-130		5/18/24 9:52
D5-NEtFOSA	24.2		10-130		5/18/24 9:52
D3-NMeFOSAA	121		45-200		5/18/24 9:52
D5-NEtFOSAA	128		10-200		5/18/24 9:52
D7-NMeFOSE	39.0		10-150		5/18/24 9:52
D9-NEtFOSE	34.1		10-150		5/18/24 9:52
13C3-HFPO-DA	84.6		25-160		5/18/24 9:52

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: CG-2 | Sampled: 5/8/2024 10:40

Sample ID: 24E1437-02

Sample Matrix: Soil

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.074	0.034	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 14:41	TG
gamma-Chlordane [1]	ND	0.074	0.032	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 14:41	TG
Aldrin [1]	ND	0.074	0.0073	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 14:41	TG
alpha-BHC [1]	ND	0.074	0.035	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 14:41	TG
beta-BHC [1]	ND	0.074	0.039	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 14:41	TG
delta-BHC [1]	ND	0.074	0.039	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 14:41	TG
gamma-BHC (Lindane) [1]	ND	0.030	0.010	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 14:41	TG
4,4'-DDD [1]	ND	0.059	0.013	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 14:41	TG
4,4'-DDE [1]	ND	0.059	0.0066	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 14:41	TG
4,4'-DDT [1]	ND	0.059	0.0076	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 14:41	TG
Dieldrin [1]	ND	0.059	0.0071	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 14:41	TG
Endosulfan I [1]	ND	0.074	0.036	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 14:41	TG
Endosulfan II [1]	ND	0.12	0.032	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 14:41	TG
Endosulfan sulfate [1]	ND	0.12	0.029	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 14:41	TG
Endrin [1]	ND	0.12	0.038	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 14:41	TG
Endrin aldehyde [1]	ND	0.12	0.029	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 17:52	TG
Endrin ketone [1]	ND	0.12	0.030	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 14:41	TG
Heptachlor [1]	ND	0.074	0.0081	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 14:41	TG
Heptachlor epoxide [1]	ND	0.074	0.0086	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 14:41	TG
Methoxychlor [2]	ND	0.74	0.071	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 14:41	TG
Toxaphene [1]	ND	1.5	0.62	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 14:41	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	59.6	30-150		5/14/24 14:41
Decachlorobiphenyl [1]	62.7	30-150		5/14/24 17:52
Decachlorobiphenyl [2]	65.1	30-150		5/14/24 14:41
Decachlorobiphenyl [2]	66.5	30-150		5/14/24 17:52
Tetrachloro-m-xylene [1]	66.8	30-150		5/14/24 14:41
Tetrachloro-m-xylene [1]	66.7	30-150		5/14/24 17:52
Tetrachloro-m-xylene [2]	67.2	30-150		5/14/24 14:41
Tetrachloro-m-xylene [2]	67.2	30-150		5/14/24 17:52

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: CG-2 | Sampled: 5/8/2024 10:40

Sample ID: 24E1437-02

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	0.029	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 19:13	SFM
Aroclor-1221 [1]	ND	0.12	0.055	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 19:13	SFM
Aroclor-1232 [1]	ND	0.12	0.029	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 19:13	SFM
Aroclor-1242 [1]	ND	0.12	0.033	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 19:13	SFM
Aroclor-1248 [1]	ND	0.12	0.028	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 19:13	SFM
Aroclor-1254 [1]	0.089	0.12	0.035	mg/Kg dry	4	J	SW-846 8082A	5/10/24	5/14/24 19:13	SFM
Aroclor-1260 [1]	ND	0.12	0.025	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 19:13	SFM
Aroclor-1262 [1]	ND	0.12	0.031	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 19:13	SFM
Aroclor-1268 [1]	ND	0.12	0.031	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 19:13	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	69.3	30-150		5/14/24 19:13
Decachlorobiphenyl [2]	73.3	30-150		5/14/24 19:13
Tetrachloro-m-xylene [1]	78.3	30-150		5/14/24 19:13
Tetrachloro-m-xylene [2]	81.5	30-150		5/14/24 19:13

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: CG-2 | Sampled: 5/8/2024 10:40

Sample ID: 24E1437-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	9600	25	8.0	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:38	ICP
Antimony	ND	2.5	0.68	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 17:37	NC
Arsenic	3.9	5.1	0.71	mg/Kg dry	1	J	SW-846 6010D	5/17/24	5/22/24 20:38	ICP
Barium	80	2.5	0.54	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:38	ICP
Beryllium	0.43	0.25	0.077	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:38	ICP
Cadmium	0.42	0.51	0.24	mg/Kg dry	1	J	SW-846 6010D	5/17/24	5/22/24 20:38	ICP
Calcium	17000	25	13	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:38	ICP
Chromium	14	1.0	0.64	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:38	ICP
Cobalt	7.4	2.5	0.43	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:38	ICP
Copper	36	2.0	1.8	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:38	ICP
Iron	21000	250	120	mg/Kg dry	10		SW-846 6010D	5/17/24	5/22/24 22:53	ICP
Lead	36	0.76	0.53	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:38	ICP
Magnesium	7200	25	5.9	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:38	ICP
Manganese	630	0.51	0.29	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:38	ICP
Mercury	0.056	0.039	0.018	mg/Kg dry	1		SW-846 7471B	5/21/24	5/23/24 15:12	AV
Nickel	17	1.0	0.70	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:38	ICP
Potassium	1800	2500	630	mg/Kg dry	10	D, J	SW-846 6010D	5/17/24	5/22/24 22:53	ICP
Selenium	ND	5.1	1.3	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:38	ICP
Silver	ND	0.51	0.31	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:38	ICP
Sodium	ND	250	75	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:38	ICP
Thallium	ND	2.5	0.81	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 17:37	NC
Vanadium	16	1.0	0.56	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:38	ICP
Zinc	98	1.0	0.89	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:38	ICP

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: CG-2 | Sampled: 5/8/2024 10:40

Sample ID: 24E1437-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	63.0			% Wt	1		SM 2540G	5/13/24	5/13/24 17:51	NC
Cyanide	0.88	0.78	0.59	mg/Kg dry	1		SW-846 9014	5/13/24	5/14/24 11:01	DET

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: B1 | Sampled: 5/8/2024 13:24

Sample ID: 24E1437-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	15000	28	8.8	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:42	ICP
Antimony	ND	2.8	0.74	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 17:44	NC
Arsenic	6.9	5.6	0.79	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:42	ICP
Barium	110	2.8	0.59	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:42	ICP
Beryllium	0.73	0.28	0.085	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:42	ICP
Cadmium	0.47	0.56	0.26	mg/Kg dry	1	J	SW-846 6010D	5/17/24	5/22/24 20:42	ICP
Calcium	6700	28	14	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:42	ICP
Chromium	19	1.1	0.71	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:42	ICP
Cobalt	10	2.8	0.47	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:42	ICP
Copper	38	2.2	2.0	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:42	ICP
Iron	30000	280	130	mg/Kg dry	10		SW-846 6010D	5/17/24	5/22/24 22:59	ICP
Lead	150	0.84	0.59	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:42	ICP
Magnesium	5300	28	6.5	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:42	ICP
Manganese	640	0.56	0.32	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:42	ICP
Mercury	0.14	0.042	0.019	mg/Kg dry	1		SW-846 7471B	5/21/24	5/23/24 15:14	AV
Nickel	24	1.1	0.77	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:42	ICP
Potassium	1400	2800	690	mg/Kg dry	10	D, J	SW-846 6010D	5/17/24	5/22/24 22:59	ICP
Selenium	ND	5.6	1.4	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:42	ICP
Silver	ND	0.56	0.34	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:42	ICP
Sodium	ND	280	83	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:42	ICP
Thallium	ND	2.8	0.89	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 17:44	NC
Vanadium	31	1.1	0.62	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:42	ICP
Zinc	160	1.1	0.98	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:42	ICP

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: B1 | Sampled: 5/8/2024 13:24

Sample ID: 24E1437-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	58.3			% Wt	1		SM 2540G	5/13/24	5/13/24 17:51	NC

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: B1A | Sampled: 5/8/2024 13:27

Sample ID: 24E1437-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.15	0.080	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
Benzene	ND	0.0031	0.00096	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
Bromochloromethane	ND	0.0031	0.0013	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
Bromodichloromethane	ND	0.0031	0.00079	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
Bromoform	ND	0.0031	0.0013	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
Bromomethane	ND	0.015	0.0027	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
2-Butanone (MEK)	ND	0.062	0.013	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
n-Butylbenzene	ND	0.0031	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
sec-Butylbenzene	ND	0.0031	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
tert-Butylbenzene	ND	0.0031	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
Carbon Disulfide	ND	0.031	0.015	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
Carbon Tetrachloride	ND	0.0031	0.00089	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
Chlorobenzene	ND	0.0031	0.00074	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
Chlorodibromomethane	ND	0.0015	0.0010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
Chloroethane	ND	0.031	0.0022	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
Chloroform	ND	0.0062	0.0010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
Chloromethane	ND	0.015	0.0019	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
Cyclohexane	ND	0.015	0.0063	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0031	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
1,2-Dibromoethane (EDB)	ND	0.0015	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
1,2-Dichlorobenzene	ND	0.0031	0.00098	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
1,3-Dichlorobenzene	ND	0.0031	0.00089	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
1,4-Dichlorobenzene	ND	0.0031	0.00095	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.031	0.0013	mg/Kg dry	1	V-05	SW-846 8260D	5/13/24	5/13/24 9:27	MFF
1,1-Dichloroethane	ND	0.0031	0.00094	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
1,2-Dichloroethane	ND	0.0031	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
1,1-Dichloroethylene	ND	0.0062	0.0015	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
cis-1,2-Dichloroethylene	ND	0.0031	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
trans-1,2-Dichloroethylene	ND	0.0031	0.00092	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
1,2-Dichloropropane	ND	0.0031	0.00095	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
cis-1,3-Dichloropropene	ND	0.0015	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
trans-1,3-Dichloropropene	ND	0.0015	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
Ethylbenzene	ND	0.0031	0.00089	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
2-Hexanone (MBK)	ND	0.031	0.011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
Isopropylbenzene (Cumene)	ND	0.0031	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0031	0.0010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
Methyl Acetate	ND	0.0031	0.0020	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0062	0.0014	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
Methyl Cyclohexane	ND	0.0031	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
Methylene Chloride	ND	0.031	0.0014	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.031	0.014	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
Naphthalene	ND	0.0062	0.0015	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
n-Propylbenzene	ND	0.0031	0.0010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
Styrene	ND	0.0031	0.00098	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: B1A | Sampled: 5/8/2024 13:27

Sample ID: 24E1437-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	0.0015	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
Tetrachloroethylene	ND	0.0031	0.0013	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
Toluene	ND	0.0031	0.00091	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
1,2,3-Trichlorobenzene	ND	0.0031	0.0010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
1,2,4-Trichlorobenzene	ND	0.0031	0.0010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
1,1,1-Trichloroethane	ND	0.0031	0.00091	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
1,1,2-Trichloroethane	ND	0.0031	0.00079	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
Trichloroethylene	ND	0.0031	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
Trichlorofluoromethane (Freon 11)	ND	0.015	0.0018	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
1,2,3-Trichloropropane	ND	0.0031	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.015	0.0016	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
1,2,4-Trimethylbenzene	ND	0.0031	0.0015	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
1,3,5-Trimethylbenzene	ND	0.0031	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
Vinyl Chloride	ND	0.015	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
m+p Xylene	ND	0.0062	0.0022	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
o-Xylene	ND	0.0031	0.0010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
Xylenes (total)	ND	0.0031	0.0031	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	99.9	70-130		5/13/24 9:27
Toluene-d8	96.0	70-130		5/13/24 9:27
4-Bromofluorobenzene	85.6	70-130		5/13/24 9:27

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: B1A | Sampled: 5/8/2024 13:27

Sample ID: 24E1437-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.77	0.053	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Atrazine	ND	0.77	0.050	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Benzaldehyde	ND	0.39	0.063	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Biphenyl	ND	0.77	0.050	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Caprolactam	ND	0.39	0.068	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Acenaphthene	ND	0.20	0.038	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Acenaphthylene	ND	0.20	0.035	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Acetophenone	ND	0.39	0.041	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Aniline	ND	0.39	0.068	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Anthracene	ND	0.20	0.035	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Benzo(a)anthracene	0.041	0.20	0.032	mg/Kg dry	1	J	SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Benzo(a)pyrene	0.058	0.20	0.035	mg/Kg dry	1	J	SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Benzo(b)fluoranthene	0.064	0.20	0.032	mg/Kg dry	1	J	SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Benzo(g,h,i)perylene	0.065	0.20	0.056	mg/Kg dry	1	J	SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Benzo(k)fluoranthene	ND	0.20	0.035	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Bis(2-chloroethoxy)methane	ND	0.39	0.042	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Bis(2-chloroethyl)ether	ND	0.39	0.056	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Bis(2-chloroisopropyl)ether	ND	0.39	0.25	mg/Kg dry	1	V-06	SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.39	0.046	mg/Kg dry	1	L-05, V-06	SW-846 8270E	5/12/24	5/16/24 17:14	BGL
4-Bromophenylphenylether	ND	0.39	0.036	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Butylbenzylphthalate	ND	0.39	0.044	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Carbazole	ND	0.20	0.040	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
4-Chloroaniline	ND	0.76	0.069	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
4-Chloro-3-methylphenol	ND	0.76	0.041	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
2-Chloronaphthalene	ND	0.39	0.034	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
2-Chlorophenol	ND	0.39	0.039	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
4-Chlorophenylphenylether	ND	0.39	0.032	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Chrysene	0.060	0.20	0.035	mg/Kg dry	1	J	SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Dibenz(a,h)anthracene	ND	0.20	0.054	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Dibenzofuran	ND	0.39	0.035	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Di-n-butylphthalate	ND	0.39	0.15	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
3,3-Dichlorobenzidine	ND	0.20	0.085	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
2,4-Dichlorophenol	ND	0.39	0.037	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Diethylphthalate	ND	0.39	0.038	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
2,4-Dimethylphenol	ND	0.39	0.091	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Dimethylphthalate	ND	0.39	0.037	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
4,6-Dinitro-2-methylphenol	ND	0.39	0.31	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
2,4-Dinitrophenol	ND	0.76	0.30	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
2,4-Dinitrotoluene	ND	0.39	0.040	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
2,6-Dinitrotoluene	ND	0.39	0.041	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Di-n-octylphthalate	ND	0.39	0.055	mg/Kg dry	1	V-20	SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Fluoranthene	0.063	0.20	0.032	mg/Kg dry	1	J	SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Fluorene	ND	0.20	0.035	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Hexachlorobenzene	ND	0.39	0.038	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: B1A | Sampled: 5/8/2024 13:27

Sample ID: 24E1437-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.39	0.035	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Hexachlorocyclopentadiene	ND	0.39	0.26	mg/Kg dry	1	L-04, V-05	SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Hexachloroethane	ND	0.39	0.036	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Isophorone	ND	0.39	0.042	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
1-Methylnaphthalene	ND	0.20	0.039	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
2-Methylnaphthalene	ND	0.20	0.033	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
2-Methylphenol	ND	0.39	0.052	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
3/4-Methylphenol	ND	0.39	0.052	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Naphthalene	ND	0.20	0.069	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
2-Nitroaniline	ND	0.39	0.048	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
3-Nitroaniline	ND	0.39	0.082	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
4-Nitroaniline	ND	0.39	0.044	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Nitrobenzene	ND	0.39	0.049	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
2-Nitrophenol	ND	0.39	0.038	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
4-Nitrophenol	ND	0.76	0.10	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	0.39	0.050	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
N-Nitrosodi-n-propylamine	ND	0.39	0.055	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Pentachlorophenol	ND	0.39	0.14	mg/Kg dry	1	V-05	SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Phenanthrene	ND	0.20	0.035	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Phenol	ND	0.39	0.050	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Pyrene	0.11	0.20	0.041	mg/Kg dry	1	J	SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Pyridine	ND	0.39	0.046	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.39	0.039	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
2,4,5-Trichlorophenol	ND	0.39	0.040	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
2,4,6-Trichlorophenol	ND	0.39	0.037	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	63.0	30-130		5/16/24 17:14
Phenol-d6	63.9	30-130		5/16/24 17:14
Nitrobenzene-d5	71.4	30-130		5/16/24 17:14
2-Fluorobiphenyl	69.4	30-130		5/16/24 17:14
2,4,6-Tribromophenol	51.4	30-130		5/16/24 17:14
p-Terphenyl-d14	94.7	30-130		5/16/24 17:14

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: B1A | Sampled: 5/8/2024 13:27

Sample ID: 24E1437-04

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.056	0.044	mg/Kg dry	1		SW-846 8270E	5/10/24	5/13/24 19:43	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	34.3	15-110		5/13/24 19:43

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: B1A | Sampled: 5/8/2024 13:27

Sample ID: 24E1437-04

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.78	0.32	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
Perfluoropentanoic acid (PFPeA)	ND	0.39	0.044	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
Perfluorohexanoic acid (PFHxA)	0.051	0.19	0.032	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 10:08	QNW
Perfluoroheptanoic acid (PFHpA)	0.043	0.19	0.014	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 10:08	QNW
Perfluorooctanoic acid (PFOA)	0.20	0.19	0.030	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
Perfluorononanoic acid (PFNA)	0.031	0.19	0.014	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 10:08	QNW
Perfluorodecanoic acid (PFDA)	0.018	0.19	0.017	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 10:08	QNW
Perfluoroundecanoic acid (PFUnA)	ND	0.19	0.023	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
Perfluorododecanoic acid (PFDoA)	ND	0.19	0.021	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
Perfluorotridecanoic acid (PFTrDA)	ND	0.19	0.022	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
Perfluorotetradecanoic acid (PFTeDA)	ND	0.19	0.020	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
Perfluorobutanesulfonic acid (PFBS)	ND	0.19	0.020	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
Perfluoropentanesulfonic acid (PFPeS)	ND	0.19	0.025	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
Perfluorohexanesulfonic acid (PFHxS)	ND	0.19	0.077	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.19	0.021	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
Perfluorooctanesulfonic acid (PFOS)	0.14	0.19	0.031	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 10:08	QNW
Perfluorononanesulfonic acid (PFNS)	ND	0.19	0.022	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
Perfluorodecanesulfonic acid (PFDS)	ND	0.19	0.031	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
Perfluorododecanesulfonic acid (PFDoS)	ND	0.19	0.030	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.78	0.068	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.78	0.49	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.78	0.091	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
Perfluorooctanesulfonamide (PFOSA)	ND	0.19	0.030	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.19	0.024	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.19	0.023	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
N-MeFOSAA (NMeFOSAA)	ND	0.19	0.035	µg/kg dry	1	V-05	Draft Method 1633	5/15/24	5/18/24 10:08	QNW
N-EtFOSAA (NEtFOSAA)	ND	0.19	0.029	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	1.9	0.21	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	1.9	0.21	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.78	0.050	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.78	0.058	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
9Cl-PF3ONS (F53B Minor)	ND	0.78	0.056	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
11Cl-PF3OUdS (F53B Major)	ND	0.78	0.086	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	1.9	0.19	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	9.7	1.3	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	9.7	1.5	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.39	0.031	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.39	0.032	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: B1A | Sampled: 5/8/2024 13:27

Sample ID: 24E1437-04

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.39	0.032	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.39	0.059	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	85.3	10-130		5/18/24 10:08
13C5-PFPeA	88.3	35-150		5/18/24 10:08
13C5-PFHxA	85.7	55-150		5/18/24 10:08
13C4-PFHpA	90.7	55-150		5/18/24 10:08
13C8-PFOA	88.0	60-140		5/18/24 10:08
13C9-PFNA	87.5	55-140		5/18/24 10:08
13C6-PFDA	84.8	50-140		5/18/24 10:08
13C7-PFUnA	89.1	30-140		5/18/24 10:08
13C2-PFDoA	83.1	10-150		5/18/24 10:08
13C2-PFTeDA	78.0	10-130		5/18/24 10:08
13C3-PFBS	89.9	55-150		5/18/24 10:08
13C3-PFHxS	86.7	55-150		5/18/24 10:08
13C8-PFOS	82.2	45-140		5/18/24 10:08
13C2-4:2FTS	111	60-200		5/18/24 10:08
13C2-6:2FTS	117	60-200		5/18/24 10:08
13C2-8:2FTS	126	50-200		5/18/24 10:08
13C8-PFOSA	72.6	30-130		5/18/24 10:08
D3-NMeFOSA	39.2	15-130		5/18/24 10:08
D5-NEtFOSA	35.2	10-130		5/18/24 10:08
D3-NMeFOSAA	115	45-200		5/18/24 10:08
D5-NEtFOSAA	98.5	10-200		5/18/24 10:08
D7-NMeFOSE	53.0	10-150		5/18/24 10:08
D9-NEtFOSE	48.4	10-150		5/18/24 10:08
13C3-HFPO-DA	89.1	25-160		5/18/24 10:08

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: B1A | Sampled: 5/8/2024 13:27

Sample ID: 24E1437-04

Sample Matrix: Soil

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.11	0.051	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 14:53	TG
gamma-Chlordane [1]	ND	0.11	0.047	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 14:53	TG
Aldrin [1]	ND	0.11	0.011	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 14:53	TG
alpha-BHC [1]	ND	0.11	0.052	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 14:53	TG
beta-BHC [1]	ND	0.11	0.058	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 14:53	TG
delta-BHC [1]	ND	0.11	0.058	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 14:53	TG
gamma-BHC (Lindane) [1]	ND	0.044	0.015	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 14:53	TG
4,4'-DDD [1]	ND	0.087	0.019	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 14:53	TG
4,4'-DDE [1]	ND	0.087	0.0096	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 14:53	TG
4,4'-DDT [2]	0.021	0.087	0.012	mg/Kg dry	20	J	SW-846 8081B	5/10/24	5/14/24 14:53	TG
Dieldrin [1]	ND	0.087	0.010	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 14:53	TG
Endosulfan I [1]	ND	0.11	0.052	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 14:53	TG
Endosulfan II [1]	ND	0.17	0.047	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 14:53	TG
Endosulfan sulfate [1]	ND	0.17	0.042	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 14:53	TG
Endrin [1]	ND	0.17	0.055	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 14:53	TG
Endrin aldehyde [1]	ND	0.17	0.043	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 18:04	TG
Endrin ketone [1]	ND	0.17	0.044	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 14:53	TG
Heptachlor [1]	ND	0.11	0.012	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 14:53	TG
Heptachlor epoxide [1]	ND	0.11	0.013	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 14:53	TG
Methoxychlor [2]	ND	1.1	0.11	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 14:53	TG
Toxaphene [1]	ND	2.2	0.91	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 14:53	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.3	30-150		5/14/24 14:53
Decachlorobiphenyl [1]	87.9	30-150		5/14/24 18:04
Decachlorobiphenyl [2]	91.6	30-150		5/14/24 14:53
Decachlorobiphenyl [2]	92.8	30-150		5/14/24 18:04
Tetrachloro-m-xylene [1]	91.7	30-150		5/14/24 14:53
Tetrachloro-m-xylene [1]	93.1	30-150		5/14/24 18:04
Tetrachloro-m-xylene [2]	90.5	30-150		5/14/24 14:53
Tetrachloro-m-xylene [2]	92.4	30-150		5/14/24 18:04

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: B1A | Sampled: 5/8/2024 13:27

Sample ID: 24E1437-04

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	0.022	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 19:30	SFM
Aroclor-1221 [1]	ND	0.087	0.040	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 19:30	SFM
Aroclor-1232 [1]	ND	0.087	0.021	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 19:30	SFM
Aroclor-1242 [1]	ND	0.087	0.024	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 19:30	SFM
Aroclor-1248 [1]	ND	0.087	0.021	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 19:30	SFM
Aroclor-1254 [1]	ND	0.087	0.026	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 19:30	SFM
Aroclor-1260 [1]	ND	0.087	0.018	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 19:30	SFM
Aroclor-1262 [1]	ND	0.087	0.023	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 19:30	SFM
Aroclor-1268 [1]	ND	0.087	0.023	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 19:30	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.6	30-150		5/14/24 19:30
Decachlorobiphenyl [2]	87.8	30-150		5/14/24 19:30
Tetrachloro-m-xylene [1]	93.4	30-150		5/14/24 19:30
Tetrachloro-m-xylene [2]	96.8	30-150		5/14/24 19:30

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: B1A | Sampled: 5/8/2024 13:27

Sample ID: 24E1437-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	9500	190	59	mg/Kg dry	10		SW-846 6010D	5/17/24	5/22/24 23:04	ICP
Antimony	ND	1.9	0.50	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 17:51	NC
Arsenic	5.2	3.8	0.53	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:47	ICP
Barium	69	19	4.0	mg/Kg dry	10		SW-846 6010D	5/17/24	5/22/24 23:04	ICP
Beryllium	0.40	0.19	0.057	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:47	ICP
Cadmium	0.28	0.38	0.18	mg/Kg dry	1	J	SW-846 6010D	5/17/24	5/22/24 20:47	ICP
Calcium	41000	190	98	mg/Kg dry	10		SW-846 6010D	5/17/24	5/22/24 23:04	ICP
Chromium	10	0.75	0.48	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:47	ICP
Cobalt	6.6	1.9	0.32	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:47	ICP
Copper	20	1.5	1.3	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:47	ICP
Iron	20000	190	87	mg/Kg dry	10		SW-846 6010D	5/17/24	5/22/24 23:04	ICP
Lead	55	0.57	0.40	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:47	ICP
Magnesium	12000	190	44	mg/Kg dry	10		SW-846 6010D	5/17/24	5/22/24 23:04	ICP
Manganese	650	0.38	0.21	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:47	ICP
Mercury	0.11	0.029	0.013	mg/Kg dry	1		SW-846 7471B	5/21/24	5/23/24 15:17	AV
Nickel	15	0.75	0.52	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:47	ICP
Potassium	750	190	47	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:47	ICP
Selenium	ND	3.8	0.93	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:47	ICP
Silver	ND	0.38	0.23	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:47	ICP
Sodium	ND	190	56	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:47	ICP
Thallium	ND	1.9	0.60	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 17:51	NC
Vanadium	23	0.75	0.42	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:47	ICP
Zinc	68	0.75	0.66	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:47	ICP

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: B1A | Sampled: 5/8/2024 13:27

Sample ID: 24E1437-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.5			% Wt	1		SM 2540G	5/13/24	5/13/24 17:51	NC
Cyanide	ND	0.55	0.41	mg/Kg dry	1		SW-846 9014	5/15/24	5/16/24 12:12	DET

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB1 | Sampled: 5/8/2024 14:06

Sample ID: 24E1437-05

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	15000	24	7.6	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:51	ICP
Antimony	ND	2.4	0.64	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 17:58	NC
Arsenic	4.4	4.8	0.68	mg/Kg dry	1	J	SW-846 6010D	5/17/24	5/22/24 20:51	ICP
Barium	91	2.4	0.51	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:51	ICP
Beryllium	0.70	0.24	0.073	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:51	ICP
Cadmium	0.29	0.48	0.23	mg/Kg dry	1	J	SW-846 6010D	5/17/24	5/22/24 20:51	ICP
Calcium	4100	24	13	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:51	ICP
Chromium	18	0.97	0.61	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:51	ICP
Cobalt	11	2.4	0.41	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:51	ICP
Copper	37	1.9	1.7	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:51	ICP
Iron	30000	240	110	mg/Kg dry	10		SW-846 6010D	5/17/24	5/22/24 23:10	ICP
Lead	45	0.72	0.51	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:51	ICP
Magnesium	4200	24	5.6	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:51	ICP
Manganese	510	0.48	0.27	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:51	ICP
Mercury	0.063	0.035	0.016	mg/Kg dry	1		SW-846 7471B	5/21/24	5/23/24 15:19	AV
Nickel	26	0.97	0.67	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:51	ICP
Potassium	910	240	60	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:51	ICP
Selenium	ND	4.8	1.2	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:51	ICP
Silver	ND	0.48	0.30	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:51	ICP
Sodium	ND	240	72	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:51	ICP
Thallium	ND	2.4	0.77	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 17:58	NC
Vanadium	22	0.97	0.53	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:51	ICP
Zinc	94	0.97	0.85	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:51	ICP

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB1 | Sampled: 5/8/2024 14:06

Sample ID: 24E1437-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	68.3			% Wt	1		SM 2540G	5/13/24	5/13/24 17:51	NC

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB1A

Sample ID: 24E1437-06 | Start Date/Time: 5/8/2024 2:10:00PM

Sample Matrix: Soil | Stop Date/Time: 5/8/2024 2:19:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.13	0.065	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
Benzene	ND	0.0025	0.00079	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
Bromochloromethane	ND	0.0025	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
Bromodichloromethane	ND	0.0025	0.00064	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
Bromoform	ND	0.0025	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
Bromomethane	ND	0.013	0.0022	mg/Kg dry	1	MS-07A	SW-846 8260D	5/13/24	5/13/24 7:16	MFF
2-Butanone (MEK)	ND	0.050	0.011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
n-Butylbenzene	ND	0.0025	0.00091	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
sec-Butylbenzene	ND	0.0025	0.0010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
tert-Butylbenzene	ND	0.0025	0.00091	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
Carbon Disulfide	ND	0.025	0.013	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
Carbon Tetrachloride	ND	0.0025	0.00073	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
Chlorobenzene	ND	0.0025	0.00061	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
Chlorodibromomethane	ND	0.0013	0.00083	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
Chloroethane	ND	0.025	0.0018	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
Chloroform	ND	0.0050	0.00082	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
Chloromethane	ND	0.013	0.0015	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
Cyclohexane	ND	0.013	0.0051	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0025	0.0010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
1,2-Dibromoethane (EDB)	ND	0.0013	0.00092	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
1,2-Dichlorobenzene	ND	0.0025	0.00080	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
1,3-Dichlorobenzene	ND	0.0025	0.00072	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
1,4-Dichlorobenzene	ND	0.0025	0.00078	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.025	0.0011	mg/Kg dry	1	V-05	SW-846 8260D	5/13/24	5/13/24 7:16	MFF
1,1-Dichloroethane	ND	0.0025	0.00076	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
1,2-Dichloroethane	ND	0.0025	0.00086	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
1,1-Dichloroethylene	ND	0.0050	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
cis-1,2-Dichloroethylene	ND	0.0025	0.00087	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
trans-1,2-Dichloroethylene	ND	0.0025	0.00075	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
1,2-Dichloropropane	ND	0.0025	0.00077	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
cis-1,3-Dichloropropene	ND	0.0013	0.00095	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
trans-1,3-Dichloropropene	ND	0.0013	0.00097	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
Ethylbenzene	ND	0.0025	0.00072	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
2-Hexanone (MBK)	ND	0.025	0.0086	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
Isopropylbenzene (Cumene)	ND	0.0025	0.00097	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0025	0.00081	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
Methyl Acetate	ND	0.0025	0.0017	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0050	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
Methyl Cyclohexane	ND	0.0025	0.00090	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
Methylene Chloride	ND	0.025	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.025	0.011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
Naphthalene	ND	0.0050	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
n-Propylbenzene	ND	0.0025	0.00083	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
Styrene	ND	0.0025	0.00080	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB1A

Sample ID: 24E1437-06 | Start Date/Time: 5/8/2024 2:10:00PM

Sample Matrix: Soil | Stop Date/Time: 5/8/2024 2:19:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	0.0013	0.00097	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
Tetrachloroethylene	ND	0.0025	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
Toluene	ND	0.0025	0.00074	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
1,2,3-Trichlorobenzene	ND	0.0025	0.00083	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
1,2,4-Trichlorobenzene	ND	0.0025	0.00083	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
1,1,1-Trichloroethane	ND	0.0025	0.00074	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
1,1,2-Trichloroethane	ND	0.0025	0.00065	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
Trichloroethylene	ND	0.0025	0.00095	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
Trichlorofluoromethane (Freon 11)	ND	0.013	0.0015	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
1,2,3-Trichloropropane	ND	0.0025	0.0010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.013	0.0013	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
1,2,4-Trimethylbenzene	ND	0.0025	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
1,3,5-Trimethylbenzene	ND	0.0025	0.0010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
Vinyl Chloride	ND	0.013	0.00098	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
m+p Xylene	ND	0.0050	0.0018	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
o-Xylene	ND	0.0025	0.00085	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
Xylenes (total)	ND	0.0025	0.0025	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	103	70-130		5/13/24 7:16
Toluene-d8	92.7	70-130		5/13/24 7:16
4-Bromofluorobenzene	82.9	70-130		5/13/24 7:16

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB1A

Sample ID: 24E1437-06 | Start Date/Time: 5/8/2024 2:10:00PM

Sample Matrix: Soil | Stop Date/Time: 5/8/2024 2:19:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.92	0.063	mg/Kg dry	1	MS-09	SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Atrazine	ND	0.92	0.060	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Benzaldehyde	ND	0.47	0.075	mg/Kg dry	1	MS-09	SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Biphenyl	ND	0.92	0.059	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Caprolactam	ND	0.47	0.081	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Acenaphthene	ND	0.23	0.045	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Acenaphthylene	ND	0.23	0.042	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Acetophenone	ND	0.47	0.049	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Aniline	ND	0.47	0.081	mg/Kg dry	1	MS-09	SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Anthracene	ND	0.23	0.041	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Benzo(a)anthracene	ND	0.23	0.038	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Benzo(a)pyrene	ND	0.23	0.042	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Benzo(b)fluoranthene	ND	0.23	0.038	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Benzo(g,h,i)perylene	ND	0.23	0.067	mg/Kg dry	1	MS-09	SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Benzo(k)fluoranthene	ND	0.23	0.042	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Bis(2-chloroethoxy)methane	ND	0.47	0.050	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Bis(2-chloroethyl)ether	ND	0.47	0.067	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Bis(2-chloroisopropyl)ether	ND	0.47	0.30	mg/Kg dry	1	V-06	SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.47	0.055	mg/Kg dry	1	L-05, V-06	SW-846 8270E	5/12/24	5/16/24 17:34	BGL
4-Bromophenylphenylether	ND	0.47	0.043	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Butylbenzylphthalate	ND	0.47	0.052	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Carbazole	ND	0.23	0.047	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
4-Chloroaniline	ND	0.91	0.083	mg/Kg dry	1	MS-09	SW-846 8270E	5/12/24	5/16/24 17:34	BGL
4-Chloro-3-methylphenol	ND	0.91	0.049	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
2-Chloronaphthalene	ND	0.47	0.041	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
2-Chlorophenol	ND	0.47	0.047	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
4-Chlorophenylphenylether	ND	0.47	0.039	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Chrysene	ND	0.23	0.042	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Dibenz(a,h)anthracene	ND	0.23	0.065	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Dibenzofuran	ND	0.47	0.042	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Di-n-butylphthalate	ND	0.47	0.18	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
3,3-Dichlorobenzidine	ND	0.23	0.10	mg/Kg dry	1	MS-09	SW-846 8270E	5/12/24	5/16/24 17:34	BGL
2,4-Dichlorophenol	ND	0.47	0.044	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Diethylphthalate	ND	0.47	0.045	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
2,4-Dimethylphenol	ND	0.47	0.11	mg/Kg dry	1	MS-09	SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Dimethylphthalate	ND	0.47	0.044	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
4,6-Dinitro-2-methylphenol	ND	0.47	0.37	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
2,4-Dinitrophenol	ND	0.91	0.36	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
2,4-Dinitrotoluene	ND	0.47	0.047	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
2,6-Dinitrotoluene	ND	0.47	0.049	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Di-n-octylphthalate	ND	0.47	0.066	mg/Kg dry	1	V-20	SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Fluoranthene	0.071	0.23	0.038	mg/Kg dry	1	MS-09, J	SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Fluorene	ND	0.23	0.042	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Hexachlorobenzene	ND	0.47	0.045	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB1A

Sample ID: 24E1437-06 | Start Date/Time: 5/8/2024 2:10:00PM

Sample Matrix: Soil | Stop Date/Time: 5/8/2024 2:19:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.47	0.042	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Hexachlorocyclopentadiene	ND	0.47	0.31	mg/Kg dry	1	L-04, MS-09, V-05	SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Hexachloroethane	ND	0.47	0.043	mg/Kg dry	1	MS-09	SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Indeno(1,2,3-cd)pyrene	ND	0.23	0.076	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Isophorone	ND	0.47	0.050	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
1-Methylnaphthalene	ND	0.23	0.047	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
2-Methylnaphthalene	ND	0.23	0.040	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
2-Methylphenol	ND	0.47	0.063	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
3/4-Methylphenol	ND	0.47	0.062	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Naphthalene	ND	0.23	0.082	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
2-Nitroaniline	ND	0.47	0.057	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
3-Nitroaniline	ND	0.47	0.097	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
4-Nitroaniline	ND	0.47	0.052	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Nitrobenzene	ND	0.47	0.059	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
2-Nitrophenol	ND	0.47	0.046	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
4-Nitrophenol	ND	0.91	0.12	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	0.47	0.059	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
N-Nitrosodi-n-propylamine	ND	0.47	0.065	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Pentachlorophenol	ND	0.47	0.17	mg/Kg dry	1	MS-09, V-05	SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Phenanthrene	ND	0.23	0.042	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Phenol	ND	0.47	0.059	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Pyrene	0.082	0.23	0.049	mg/Kg dry	1	J	SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Pyridine	ND	0.47	0.055	mg/Kg dry	1	MS-09	SW-846 8270E	5/12/24	5/16/24 17:34	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.47	0.046	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
2,4,5-Trichlorophenol	ND	0.47	0.048	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
2,4,6-Trichlorophenol	ND	0.47	0.044	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	40.4	30-130		5/16/24 17:34
Phenol-d6	38.9	30-130		5/16/24 17:34
Nitrobenzene-d5	43.1	30-130		5/16/24 17:34
2-Fluorobiphenyl	43.4	30-130		5/16/24 17:34
2,4,6-Tribromophenol	33.9	30-130		5/16/24 17:34
p-Terphenyl-d14	58.2	30-130		5/16/24 17:34

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB1A

Sample ID: 24E1437-06 | Start Date/Time: 5/8/2024 2:10:00PM

Sample Matrix: Soil | Stop Date/Time: 5/8/2024 2:19:00PM

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.068	0.054	mg/Kg dry	1		SW-846 8270E	5/10/24	5/13/24 17:42	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
1,4-Dioxane-d8	38.4	15-110				5/13/24 17:42	

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB1A

Sample ID: 24E1437-06 | Start Date/Time: 5/8/2024 2:10:00PM

Sample Matrix: Soil | Stop Date/Time: 5/8/2024 2:19:00PM

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.80	0.32	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW
Perfluoropentanoic acid (PFPeA)	0.050	0.40	0.045	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 10:24	QNW
Perfluorohexanoic acid (PFHxA)	0.053	0.20	0.033	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 10:24	QNW
Perfluoroheptanoic acid (PFHpA)	0.048	0.20	0.014	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 10:24	QNW
Perfluorooctanoic acid (PFOA)	0.20	0.20	0.031	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 10:24	QNW
Perfluorononanoic acid (PFNA)	0.077	0.20	0.014	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 10:24	QNW
Perfluorodecanoic acid (PFDA)	0.043	0.20	0.018	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 10:24	QNW
Perfluoroundecanoic acid (PFUnA)	0.044	0.20	0.023	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 10:24	QNW
Perfluorododecanoic acid (PFDoA)	ND	0.20	0.022	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW
Perfluorotridecanoic acid (PFTrDA)	ND	0.20	0.022	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW
Perfluorotetradecanoic acid (PFTeDA)	ND	0.20	0.020	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW
Perfluorobutanesulfonic acid (PFBS)	ND	0.20	0.021	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW
Perfluoropentanesulfonic acid (PFPeS)	ND	0.20	0.026	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW
Perfluorohexanesulfonic acid (PFHxS)	ND	0.20	0.078	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.20	0.021	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW
Perfluorooctanesulfonic acid (PFOS)	0.25	0.20	0.032	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW
Perfluorononanesulfonic acid (PFNS)	ND	0.20	0.022	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW
Perfluorodecanesulfonic acid (PFDS)	ND	0.20	0.032	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW
Perfluorododecanesulfonic acid (PFDoS)	ND	0.20	0.030	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.80	0.070	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.80	0.50	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.80	0.093	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW
Perfluorooctanesulfonamide (PFOSA)	ND	0.20	0.031	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.20	0.025	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.20	0.023	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW
N-MeFOSAA (NMeFOSAA)	ND	0.20	0.036	µg/kg dry	1	V-05	Draft Method 1633	5/15/24	5/18/24 10:24	QNW
N-EtFOSAA (NEtFOSAA)	ND	0.20	0.030	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	2.0	0.22	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	2.0	0.21	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.80	0.051	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.80	0.060	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW
9Cl-PF3ONS (F53B Minor)	ND	0.80	0.058	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW
11Cl-PF3OUdS (F53B Major)	ND	0.80	0.088	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	2.0	0.19	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	10	1.3	µg/kg dry	1	MS-07A	Draft Method 1633	5/15/24	5/18/24 10:24	QNW
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	10	1.5	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.40	0.031	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.40	0.033	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB1A

Sample ID: 24E1437-06 | Start Date/Time: 5/8/2024 2:10:00PM

Sample Matrix: Soil | Stop Date/Time: 5/8/2024 2:19:00PM

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.40	0.033	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.40	0.060	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	78.4	10-130		5/18/24 10:24
13C5-PFPeA	84.1	35-150		5/18/24 10:24
13C5-PFHxA	82.0	55-150		5/18/24 10:24
13C4-PFHpA	88.4	55-150		5/18/24 10:24
13C8-PFOA	81.9	60-140		5/18/24 10:24
13C9-PFNA	80.9	55-140		5/18/24 10:24
13C6-PFDA	82.3	50-140		5/18/24 10:24
13C7-PFUnA	88.0	30-140		5/18/24 10:24
13C2-PFDoA	82.7	10-150		5/18/24 10:24
13C2-PFTeDA	76.0	10-130		5/18/24 10:24
13C3-PFBS	82.3	55-150		5/18/24 10:24
13C3-PFHxS	78.4	55-150		5/18/24 10:24
13C8-PFOS	79.5	45-140		5/18/24 10:24
13C2-4:2FTS	97.6	60-200		5/18/24 10:24
13C2-6:2FTS	100	60-200		5/18/24 10:24
13C2-8:2FTS	106	50-200		5/18/24 10:24
13C8-PFOSA	70.5	30-130		5/18/24 10:24
D3-NMeFOSA	38.1	15-130		5/18/24 10:24
D5-NEtFOSA	35.9	10-130		5/18/24 10:24
D3-NMeFOSAA	113	45-200		5/18/24 10:24
D5-NEtFOSAA	96.6	10-200		5/18/24 10:24
D7-NMeFOSE	53.9	10-150		5/18/24 10:24
D9-NEtFOSE	51.8	10-150		5/18/24 10:24
13C3-HFPO-DA	86.2	25-160		5/18/24 10:24

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB1A

Sample ID: 24E1437-06 | Start Date/Time: 5/8/2024 2:10:00PM

Sample Matrix: Soil | Stop Date/Time: 5/8/2024 2:19:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.0066	0.0031	mg/Kg dry	1		SW-846 8081B	5/10/24	5/14/24 15:05	TG
gamma-Chlordane [1]	ND	0.0066	0.0029	mg/Kg dry	1		SW-846 8081B	5/10/24	5/14/24 15:05	TG
Aldrin [1]	ND	0.0066	0.00065	mg/Kg dry	1		SW-846 8081B	5/10/24	5/14/24 15:05	TG
alpha-BHC [1]	ND	0.0066	0.0031	mg/Kg dry	1		SW-846 8081B	5/10/24	5/14/24 15:05	TG
beta-BHC [1]	ND	0.0066	0.0035	mg/Kg dry	1		SW-846 8081B	5/10/24	5/14/24 15:05	TG
delta-BHC [1]	ND	0.0066	0.0035	mg/Kg dry	1		SW-846 8081B	5/10/24	5/14/24 15:05	TG
gamma-BHC (Lindane) [1]	ND	0.0026	0.00092	mg/Kg dry	1		SW-846 8081B	5/10/24	5/14/24 15:05	TG
4,4'-DDD [1]	ND	0.0053	0.0011	mg/Kg dry	1		SW-846 8081B	5/10/24	5/14/24 15:05	TG
4,4'-DDE [1]	ND	0.0053	0.00058	mg/Kg dry	1		SW-846 8081B	5/10/24	5/14/24 15:05	TG
4,4'-DDT [1]	ND	0.0053	0.00068	mg/Kg dry	1		SW-846 8081B	5/10/24	5/14/24 15:05	TG
Dieldrin [1]	ND	0.0053	0.00063	mg/Kg dry	1		SW-846 8081B	5/10/24	5/14/24 15:05	TG
Endosulfan I [1]	ND	0.0066	0.0032	mg/Kg dry	1		SW-846 8081B	5/10/24	5/14/24 15:05	TG
Endosulfan II [1]	ND	0.011	0.0028	mg/Kg dry	1		SW-846 8081B	5/10/24	5/14/24 15:05	TG
Endosulfan sulfate [1]	ND	0.011	0.0026	mg/Kg dry	1		SW-846 8081B	5/10/24	5/14/24 15:05	TG
Endrin [1]	ND	0.011	0.0034	mg/Kg dry	1		SW-846 8081B	5/10/24	5/14/24 15:05	TG
Endrin aldehyde [1]	ND	0.011	0.0026	mg/Kg dry	1		SW-846 8081B	5/10/24	5/14/24 18:16	TG
Endrin ketone [1]	ND	0.011	0.0027	mg/Kg dry	1		SW-846 8081B	5/10/24	5/14/24 15:05	TG
Heptachlor [1]	ND	0.0066	0.00073	mg/Kg dry	1		SW-846 8081B	5/10/24	5/14/24 15:05	TG
Heptachlor epoxide [1]	ND	0.0066	0.00077	mg/Kg dry	1		SW-846 8081B	5/10/24	5/14/24 15:05	TG
Methoxychlor [2]	ND	0.066	0.0064	mg/Kg dry	1		SW-846 8081B	5/10/24	5/14/24 15:05	TG
Toxaphene [1]	ND	0.13	0.055	mg/Kg dry	1		SW-846 8081B	5/10/24	5/14/24 15:05	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	66.2	30-150		5/14/24 15:05
Decachlorobiphenyl [1]	66.1	30-150		5/14/24 18:16
Decachlorobiphenyl [2]	71.4	30-150		5/14/24 15:05
Decachlorobiphenyl [2]	71.8	30-150		5/14/24 18:16
Tetrachloro-m-xylene [1]	62.1	30-150		5/14/24 15:05
Tetrachloro-m-xylene [1]	63.8	30-150		5/14/24 18:16
Tetrachloro-m-xylene [2]	64.2	30-150		5/14/24 15:05
Tetrachloro-m-xylene [2]	64.4	30-150		5/14/24 18:16

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB1A

Sample ID: 24E1437-06 | Start Date/Time: 5/8/2024 2:10:00PM

Sample Matrix: Soil | Stop Date/Time: 5/8/2024 2:19:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	0.026	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 19:47	SFM
Aroclor-1221 [1]	ND	0.10	0.048	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 19:47	SFM
Aroclor-1232 [1]	ND	0.10	0.025	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 19:47	SFM
Aroclor-1242 [1]	ND	0.10	0.029	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 19:47	SFM
Aroclor-1248 [1]	ND	0.10	0.025	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 19:47	SFM
Aroclor-1254 [1]	ND	0.10	0.031	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 19:47	SFM
Aroclor-1260 [1]	ND	0.10	0.022	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 19:47	SFM
Aroclor-1262 [1]	ND	0.10	0.027	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 19:47	SFM
Aroclor-1268 [1]	ND	0.10	0.027	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 19:47	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.8	30-150		5/14/24 19:47
Decachlorobiphenyl [2]	82.3	30-150		5/14/24 19:47
Tetrachloro-m-xylene [1]	83.4	30-150		5/14/24 19:47
Tetrachloro-m-xylene [2]	87.6	30-150		5/14/24 19:47

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB1A

Sample ID: 24E1437-06 | Start Date/Time: 5/8/2024 2:10:00PM

Sample Matrix: Soil | Stop Date/Time: 5/8/2024 2:19:00PM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	16000	22	7.1	mg/Kg dry	1	MS-19	SW-846 6010D	5/17/24	5/22/24 20:26	ICP
Antimony	ND	2.2	0.60	mg/Kg dry	1	Z-01	SW-846 6010D	5/17/24	5/27/24 18:18	NC
Arsenic	5.4	4.5	0.63	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:26	ICP
Barium	91	2.2	0.48	mg/Kg dry	1	MS-22	SW-846 6010D	5/17/24	5/22/24 20:26	ICP
Beryllium	0.69	0.22	0.068	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:26	ICP
Cadmium	0.26	0.45	0.21	mg/Kg dry	1	J	SW-846 6010D	5/17/24	5/22/24 20:26	ICP
Calcium	5300	22	12	mg/Kg dry	1	MS-19	SW-846 6010D	5/17/24	5/22/24 20:26	ICP
Chromium	17	0.90	0.57	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:26	ICP
Cobalt	11	2.2	0.38	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:26	ICP
Copper	34	1.8	1.6	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:26	ICP
Iron	29000	220	100	mg/Kg dry	10	MS-19	SW-846 6010D	5/17/24	5/22/24 23:16	ICP
Lead	41	0.67	0.47	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:26	ICP
Magnesium	4200	22	5.2	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:26	ICP
Manganese	560	0.45	0.25	mg/Kg dry	1	MS-19	SW-846 6010D	5/17/24	5/22/24 20:26	ICP
Mercury	0.057	0.033	0.015	mg/Kg dry	1		SW-846 7471B	5/21/24	5/23/24 15:22	AV
Nickel	24	0.90	0.62	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:26	ICP
Potassium	890	220	55	mg/Kg dry	1	MS-22	SW-846 6010D	5/17/24	5/22/24 20:26	ICP
Selenium	ND	4.5	1.1	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:26	ICP
Silver	ND	0.45	0.28	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:26	ICP
Sodium	ND	220	67	mg/Kg dry	1	MS-22	SW-846 6010D	5/17/24	5/22/24 20:26	ICP
Thallium	ND	2.2	0.72	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 18:18	NC
Vanadium	22	0.90	0.50	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:26	ICP
Zinc	88	0.90	0.79	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:26	ICP

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB1A

Sample ID: 24E1437-06 | Start Date/Time: 5/8/2024 2:10:00PM

Sample Matrix: Soil | Stop Date/Time: 5/8/2024 2:19:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	72.5			% Wt	1		SM 2540G	5/13/24	5/13/24 17:51	NC
Cyanide	ND	0.64	0.48	mg/Kg dry	1		SW-846 9014	5/13/24	5/14/24 11:01	DET

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB2 | Sampled: 5/8/2024 14:34

Sample ID: 24E1437-07

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	16000	23	7.3	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:56	ICP
Antimony	ND	2.3	0.62	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 18:25	NC
Arsenic	5.5	4.6	0.65	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:56	ICP
Barium	160	2.3	0.49	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:56	ICP
Beryllium	1.1	0.23	0.070	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:56	ICP
Cadmium	0.30	0.46	0.22	mg/Kg dry	1	J	SW-846 6010D	5/17/24	5/22/24 20:56	ICP
Calcium	4200	23	12	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:56	ICP
Chromium	25	0.92	0.58	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:56	ICP
Cobalt	16	2.3	0.39	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:56	ICP
Copper	88	1.8	1.6	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:56	ICP
Iron	35000	230	110	mg/Kg dry	10		SW-846 6010D	5/17/24	5/22/24 23:21	ICP
Lead	200	0.69	0.49	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:56	ICP
Magnesium	5200	23	5.4	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:56	ICP
Manganese	740	0.46	0.26	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:56	ICP
Mercury	0.083	0.034	0.015	mg/Kg dry	1		SW-846 7471B	5/21/24	5/23/24 15:25	AV
Nickel	52	0.92	0.64	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:56	ICP
Potassium	1800	2300	570	mg/Kg dry	10	D, J	SW-846 6010D	5/17/24	5/22/24 23:21	ICP
Selenium	ND	4.6	1.1	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:56	ICP
Silver	ND	0.46	0.28	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:56	ICP
Sodium	ND	230	69	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:56	ICP
Thallium	ND	2.3	0.74	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 18:25	NC
Vanadium	26	0.92	0.51	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:56	ICP
Zinc	210	0.92	0.81	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:56	ICP

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB2 | Sampled: 5/8/2024 14:34

Sample ID: 24E1437-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	71.0			% Wt	1		SM 2540G	5/13/24	5/13/24 17:51	NC

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB2A | Sampled: 5/8/2024 14:34

Sample ID: 24E1437-08

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	16000	21	6.5	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:15	ICP
Antimony	ND	2.1	0.55	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 18:32	NC
Arsenic	6.3	4.1	0.58	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:15	ICP
Barium	130	2.1	0.44	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:15	ICP
Beryllium	0.77	0.21	0.063	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:15	ICP
Cadmium	0.26	0.41	0.20	mg/Kg dry	1	J	SW-846 6010D	5/17/24	5/22/24 21:15	ICP
Calcium	9700	21	11	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:15	ICP
Chromium	20	0.82	0.52	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:15	ICP
Cobalt	14	2.1	0.35	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:15	ICP
Copper	180	1.6	1.5	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:15	ICP
Iron	34000	210	95	mg/Kg dry	10		SW-846 6010D	5/17/24	5/22/24 23:27	ICP
Lead	120	0.62	0.43	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:15	ICP
Magnesium	6000	21	4.8	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:15	ICP
Manganese	820	0.41	0.23	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:15	ICP
Mercury	0.071	0.028	0.013	mg/Kg dry	1		SW-846 7471B	5/21/24	5/23/24 15:27	AV
Nickel	57	0.82	0.57	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:15	ICP
Potassium	1600	2100	510	mg/Kg dry	10	D, J	SW-846 6010D	5/17/24	5/22/24 23:27	ICP
Selenium	ND	4.1	1.0	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:15	ICP
Silver	ND	0.41	0.25	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:15	ICP
Sodium	67	210	61	mg/Kg dry	1	J	SW-846 6010D	5/17/24	5/22/24 21:15	ICP
Thallium	ND	2.1	0.66	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 18:32	NC
Vanadium	24	0.82	0.45	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:15	ICP
Zinc	130	0.82	0.72	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:15	ICP

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB2A | Sampled: 5/8/2024 14:34

Sample ID: 24E1437-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.8			% Wt	1		SM 2540G	5/13/24	5/13/24 17:51	NC

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB3 | Sampled: 5/8/2024 14:42

Sample ID: 24E1437-09

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	15000	19	6.0	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:21	ICP
Antimony	ND	1.9	0.51	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 18:39	NC
Arsenic	6.1	3.8	0.53	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:21	ICP
Barium	100	1.9	0.40	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:21	ICP
Beryllium	0.65	0.19	0.058	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:21	ICP
Cadmium	0.32	0.38	0.18	mg/Kg dry	1	J	SW-846 6010D	5/17/24	5/22/24 21:21	ICP
Calcium	11000	19	9.8	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:21	ICP
Chromium	18	0.76	0.48	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:21	ICP
Cobalt	12	1.9	0.32	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:21	ICP
Copper	40	1.5	1.3	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:21	ICP
Iron	33000	190	88	mg/Kg dry	10		SW-846 6010D	5/17/24	5/22/24 23:44	ICP
Lead	76	0.57	0.40	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:21	ICP
Magnesium	5800	19	4.4	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:21	ICP
Manganese	660	0.38	0.22	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:21	ICP
Mercury	0.048	0.029	0.013	mg/Kg dry	1		SW-846 7471B	5/21/24	5/23/24 15:30	AV
Nickel	27	0.76	0.52	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:21	ICP
Potassium	1500	1900	470	mg/Kg dry	10	D, J	SW-846 6010D	5/17/24	5/22/24 23:44	ICP
Selenium	ND	3.8	0.94	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:21	ICP
Silver	ND	0.38	0.23	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:21	ICP
Sodium	ND	190	56	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:21	ICP
Thallium	ND	1.9	0.61	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 18:39	NC
Vanadium	22	0.76	0.42	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:21	ICP
Zinc	100	0.76	0.67	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:21	ICP

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB3 | Sampled: 5/8/2024 14:42

Sample ID: 24E1437-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.0			% Wt	1		SM 2540G	5/13/24	5/13/24 17:51	NC

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB3A | Sampled: 5/8/2024 14:42

Sample ID: 24E1437-10

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	15000	20	6.2	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:28	ICP
Antimony	ND	2.0	0.52	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 18:46	NC
Arsenic	5.1	3.9	0.55	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:28	ICP
Barium	100	2.0	0.42	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:28	ICP
Beryllium	0.67	0.20	0.060	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:28	ICP
Cadmium	0.36	0.39	0.19	mg/Kg dry	1	J	SW-846 6010D	5/17/24	5/22/24 21:28	ICP
Calcium	9300	20	10	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:28	ICP
Chromium	19	0.78	0.50	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:28	ICP
Cobalt	12	2.0	0.33	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:28	ICP
Copper	39	1.6	1.4	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:28	ICP
Iron	35000	200	91	mg/Kg dry	10		SW-846 6010D	5/17/24	5/22/24 23:50	ICP
Lead	64	0.59	0.41	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:28	ICP
Magnesium	6400	20	4.6	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:28	ICP
Manganese	810	0.39	0.22	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:28	ICP
Mercury	0.058	0.027	0.012	mg/Kg dry	1		SW-846 7471B	5/21/24	5/23/24 15:32	AV
Nickel	29	0.78	0.54	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:28	ICP
Potassium	1500	2000	480	mg/Kg dry	10	D, J	SW-846 6010D	5/17/24	5/22/24 23:50	ICP
Selenium	ND	3.9	0.97	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:28	ICP
Silver	ND	0.39	0.24	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:28	ICP
Sodium	ND	200	58	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:28	ICP
Thallium	ND	2.0	0.62	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 18:46	NC
Vanadium	23	0.78	0.43	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:28	ICP
Zinc	100	0.78	0.69	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:28	ICP

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB3A | Sampled: 5/8/2024 14:42

Sample ID: 24E1437-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.9			% Wt	1		SM 2540G	5/13/24	5/13/24 17:51	NC

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB4 | Sampled: 5/8/2024 14:53

Sample ID: 24E1437-11

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	16000	21	6.7	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:35	ICP
Antimony	ND	2.1	0.57	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 18:53	NC
Arsenic	7.0	4.3	0.60	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:35	ICP
Barium	330	2.1	0.45	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:35	ICP
Beryllium	1.1	0.21	0.065	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:35	ICP
Cadmium	1.8	0.43	0.20	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:35	ICP
Calcium	9900	21	11	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:35	ICP
Chromium	110	0.85	0.54	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:35	ICP
Cobalt	16	2.1	0.36	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:35	ICP
Copper	120	1.7	1.5	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:35	ICP
Iron	43000	210	99	mg/Kg dry	10		SW-846 6010D	5/17/24	5/22/24 23:55	ICP
Lead	3800	6.4	4.5	mg/Kg dry	10		SW-846 6010D	5/17/24	5/22/24 23:55	ICP
Magnesium	5500	21	5.0	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:35	ICP
Manganese	670	0.43	0.24	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:35	ICP
Mercury	0.15	0.030	0.013	mg/Kg dry	1		SW-846 7471B	5/21/24	5/23/24 15:35	AV
Nickel	63	0.85	0.59	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:35	ICP
Potassium	2000	2100	530	mg/Kg dry	10	D, J	SW-846 6010D	5/17/24	5/22/24 23:55	ICP
Selenium	ND	4.3	1.1	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:35	ICP
Silver	ND	0.43	0.26	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:35	ICP
Sodium	75	210	63	mg/Kg dry	1	J	SW-846 6010D	5/17/24	5/22/24 21:35	ICP
Thallium	ND	2.1	0.68	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 18:53	NC
Vanadium	25	0.85	0.47	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:35	ICP
Zinc	730	8.5	7.5	mg/Kg dry	10		SW-846 6010D	5/17/24	5/22/24 23:55	ICP

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB4 | Sampled: 5/8/2024 14:53

Sample ID: 24E1437-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	74.1			% Wt	1		SM 2540G	5/13/24	5/13/24 17:51	NC

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB4A | Sampled: 5/8/2024 14:53

Sample ID: 24E1437-12

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	0.056	0.11	0.056	mg/Kg dry	1	V-35, J	SW-846 8260D	5/13/24	5/13/24 9:53	MFF
Benzene	ND	0.0022	0.00067	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
Bromochloromethane	ND	0.0022	0.00092	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
Bromodichloromethane	ND	0.0022	0.00055	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
Bromoform	ND	0.0022	0.00094	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
Bromomethane	ND	0.011	0.0019	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
2-Butanone (MEK)	ND	0.043	0.0091	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
n-Butylbenzene	ND	0.0022	0.00078	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
sec-Butylbenzene	ND	0.0022	0.00086	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
tert-Butylbenzene	ND	0.0022	0.00078	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
Carbon Disulfide	ND	0.022	0.011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
Carbon Tetrachloride	ND	0.0022	0.00062	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
Chlorobenzene	ND	0.0022	0.00052	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
Chlorodibromomethane	ND	0.0011	0.00071	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
Chloroethane	ND	0.022	0.0015	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
Chloroform	ND	0.0043	0.00070	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
Chloromethane	ND	0.011	0.0013	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
Cyclohexane	ND	0.011	0.0044	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0022	0.00087	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	0.00078	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
1,2-Dichlorobenzene	ND	0.0022	0.00069	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
1,3-Dichlorobenzene	ND	0.0022	0.00062	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
1,4-Dichlorobenzene	ND	0.0022	0.00067	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.022	0.00094	mg/Kg dry	1	V-05	SW-846 8260D	5/13/24	5/13/24 9:53	MFF
1,1-Dichloroethane	ND	0.0022	0.00066	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
1,2-Dichloroethane	ND	0.0022	0.00074	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
1,1-Dichloroethylene	ND	0.0043	0.0010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
cis-1,2-Dichloroethylene	ND	0.0022	0.00075	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
trans-1,2-Dichloroethylene	ND	0.0022	0.00064	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
1,2-Dichloropropane	ND	0.0022	0.00066	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
cis-1,3-Dichloropropene	ND	0.0011	0.00082	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
trans-1,3-Dichloropropene	ND	0.0011	0.00083	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
Ethylbenzene	ND	0.0022	0.00062	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
2-Hexanone (MBK)	ND	0.022	0.0074	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
Isopropylbenzene (Cumene)	ND	0.0022	0.00083	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0022	0.00070	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
Methyl Acetate	ND	0.0022	0.0014	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0043	0.00095	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
Methyl Cyclohexane	ND	0.0022	0.00077	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
Methylene Chloride	ND	0.022	0.0010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.022	0.0095	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
Naphthalene	ND	0.0043	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
n-Propylbenzene	ND	0.0022	0.00071	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
Styrene	ND	0.0022	0.00068	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB4A | Sampled: 5/8/2024 14:53

Sample ID: 24E1437-12

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	0.0011	0.00083	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
Tetrachloroethylene	ND	0.0022	0.00094	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
Toluene	ND	0.0022	0.00064	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
1,2,3-Trichlorobenzene	ND	0.0022	0.00071	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
1,2,4-Trichlorobenzene	ND	0.0022	0.00071	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
1,1,1-Trichloroethane	ND	0.0022	0.00064	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
1,1,2-Trichloroethane	ND	0.0022	0.00055	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
Trichloroethylene	ND	0.0022	0.00081	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	0.0013	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
1,2,3-Trichloropropane	ND	0.0022	0.00087	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
1,2,4-Trimethylbenzene	ND	0.0022	0.0010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
1,3,5-Trimethylbenzene	ND	0.0022	0.00086	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
Vinyl Chloride	ND	0.011	0.00084	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
m+p Xylene	ND	0.0043	0.0016	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
o-Xylene	ND	0.0022	0.00073	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
Xylenes (total)	ND	0.0022	0.0022	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	106	70-130		5/13/24 9:53
Toluene-d8	94.8	70-130		5/13/24 9:53
4-Bromofluorobenzene	85.3	70-130		5/13/24 9:53

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB4A | Sampled: 5/8/2024 14:53

Sample ID: 24E1437-12

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.84	0.058	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Atrazine	ND	0.84	0.055	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Benzaldehyde	ND	0.43	0.068	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Biphenyl	ND	0.84	0.054	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Caprolactam	ND	0.43	0.074	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Acenaphthene	ND	0.21	0.041	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Acenaphthylene	ND	0.21	0.039	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Acetophenone	ND	0.43	0.045	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Aniline	ND	0.43	0.074	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Anthracene	ND	0.21	0.038	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Benzo(a)anthracene	ND	0.21	0.035	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Benzo(a)pyrene	ND	0.21	0.039	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Benzo(b)fluoranthene	ND	0.21	0.035	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Benzo(g,h,i)perylene	ND	0.21	0.061	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Benzo(k)fluoranthene	ND	0.21	0.039	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Bis(2-chloroethoxy)methane	ND	0.43	0.046	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Bis(2-chloroethyl)ether	ND	0.43	0.061	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Bis(2-chloroisopropyl)ether	ND	0.43	0.27	mg/Kg dry	1	V-06	SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.43	0.051	mg/Kg dry	1	L-05, V-06	SW-846 8270E	5/12/24	5/16/24 17:54	BGL
4-Bromophenylphenylether	ND	0.43	0.039	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Butylbenzylphthalate	ND	0.43	0.048	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Carbazole	ND	0.21	0.043	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
4-Chloroaniline	ND	0.83	0.076	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
4-Chloro-3-methylphenol	ND	0.83	0.045	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
2-Chloronaphthalene	ND	0.43	0.037	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
2-Chlorophenol	ND	0.43	0.043	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
4-Chlorophenylphenylether	ND	0.43	0.035	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Chrysene	ND	0.21	0.038	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Dibenz(a,h)anthracene	ND	0.21	0.059	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Dibenzofuran	ND	0.43	0.038	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Di-n-butylphthalate	ND	0.43	0.16	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
3,3-Dichlorobenzidine	ND	0.21	0.092	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
2,4-Dichlorophenol	ND	0.43	0.041	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Diethylphthalate	ND	0.43	0.041	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
2,4-Dimethylphenol	ND	0.43	0.099	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Dimethylphthalate	ND	0.43	0.040	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
4,6-Dinitro-2-methylphenol	ND	0.43	0.34	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
2,4-Dinitrophenol	ND	0.83	0.33	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
2,4-Dinitrotoluene	ND	0.43	0.043	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
2,6-Dinitrotoluene	ND	0.43	0.045	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Di-n-octylphthalate	ND	0.43	0.060	mg/Kg dry	1	V-20	SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Fluoranthene	ND	0.21	0.035	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Fluorene	ND	0.21	0.038	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Hexachlorobenzene	ND	0.43	0.041	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB4A | Sampled: 5/8/2024 14:53

Sample ID: 24E1437-12

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.43	0.039	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Hexachlorocyclopentadiene	ND	0.43	0.28	mg/Kg dry	1	L-04, V-05	SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Hexachloroethane	ND	0.43	0.039	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Isophorone	ND	0.43	0.045	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
1-Methylnaphthalene	ND	0.21	0.043	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
2-Methylnaphthalene	ND	0.21	0.036	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
2-Methylphenol	ND	0.43	0.057	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
3/4-Methylphenol	ND	0.43	0.056	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Naphthalene	ND	0.21	0.075	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
2-Nitroaniline	ND	0.43	0.052	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
3-Nitroaniline	ND	0.43	0.089	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
4-Nitroaniline	ND	0.43	0.048	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Nitrobenzene	ND	0.43	0.054	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
2-Nitrophenol	ND	0.43	0.042	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
4-Nitrophenol	ND	0.83	0.11	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	0.43	0.054	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
N-Nitrosodi-n-propylamine	ND	0.43	0.060	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Pentachlorophenol	ND	0.43	0.15	mg/Kg dry	1	V-05	SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Phenanthrene	ND	0.21	0.038	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Phenol	ND	0.43	0.054	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Pyrene	ND	0.21	0.045	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Pyridine	ND	0.43	0.050	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.43	0.042	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
2,4,5-Trichlorophenol	ND	0.43	0.044	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
2,4,6-Trichlorophenol	ND	0.43	0.041	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	46.5	30-130		5/16/24 17:54
Phenol-d6	49.9	30-130		5/16/24 17:54
Nitrobenzene-d5	52.5	30-130		5/16/24 17:54
2-Fluorobiphenyl	55.2	30-130		5/16/24 17:54
2,4,6-Tribromophenol	45.8	30-130		5/16/24 17:54
p-Terphenyl-d14	76.1	30-130		5/16/24 17:54

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB4A | Sampled: 5/8/2024 14:53

Sample ID: 24E1437-12

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.064	0.051	mg/Kg dry	1		SW-846 8270E	5/10/24	5/13/24 18:43	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	33.0	15-110		5/13/24 18:43

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB4A | Sampled: 5/8/2024 14:53

Sample ID: 24E1437-12

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.78	0.32	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:11	QNW
Perfluoropentanoic acid (PFPeA)	0.10	0.39	0.044	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 11:11	QNW
Perfluorohexanoic acid (PFHxA)	0.10	0.19	0.032	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 11:11	QNW
Perfluoroheptanoic acid (PFHpA)	0.081	0.19	0.014	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 11:11	QNW
Perfluorooctanoic acid (PFOA)	0.33	0.19	0.030	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:11	QNW
Perfluorononanoic acid (PFNA)	0.11	0.19	0.013	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 11:11	QNW
Perfluorodecanoic acid (PFDA)	0.046	0.19	0.017	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 11:11	QNW
Perfluoroundecanoic acid (PFUnA)	0.048	0.19	0.023	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 11:11	QNW
Perfluorododecanoic acid (PFDoA)	0.023	0.19	0.021	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 11:11	QNW
Perfluorotridecanoic acid (PFTrDA)	0.023	0.19	0.022	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 11:11	QNW
Perfluorotetradecanoic acid (PFTeDA)	ND	0.19	0.020	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:11	QNW
Perfluorobutanesulfonic acid (PFBS)	0.035	0.19	0.020	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 11:11	QNW
Perfluoropentanesulfonic acid (PFPeS)	ND	0.19	0.025	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:11	QNW
Perfluorohexanesulfonic acid (PFHxS)	ND	0.19	0.077	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:11	QNW
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.19	0.021	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:11	QNW
Perfluorooctanesulfonic acid (PFOS)	0.30	0.19	0.031	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:11	QNW
Perfluorononanesulfonic acid (PFNS)	ND	0.19	0.022	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:11	QNW
Perfluorodecanesulfonic acid (PFDS)	ND	0.19	0.031	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:11	QNW
Perfluorododecanesulfonic acid (PFDoS)	ND	0.19	0.030	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:11	QNW
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.78	0.068	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:11	QNW
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.78	0.49	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:11	QNW
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.78	0.091	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:11	QNW
Perfluorooctanesulfonamide (PFOSA)	ND	0.19	0.030	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:11	QNW
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.19	0.024	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:11	QNW
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.19	0.023	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:11	QNW
N-MeFOSAA (NMeFOSAA)	ND	0.19	0.035	µg/kg dry	1	V-05	Draft Method 1633	5/15/24	5/18/24 11:11	QNW
N-EtFOSAA (NEtFOSAA)	ND	0.19	0.029	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:11	QNW
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	1.9	0.21	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:11	QNW
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	1.9	0.21	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:11	QNW
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.78	0.050	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:11	QNW
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.78	0.058	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:11	QNW
9Cl-PF3ONS (F53B Minor)	ND	0.78	0.056	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:11	QNW
11Cl-PF3OUdS (F53B Major)	ND	0.78	0.086	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:11	QNW
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	1.9	0.19	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:11	QNW
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	9.7	1.3	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:11	QNW
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	9.7	1.5	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:11	QNW
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.39	0.031	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:11	QNW
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.39	0.032	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:11	QNW

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB4A | Sampled: 5/8/2024 14:53

Sample ID: 24E1437-12

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.39	0.032	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:11	QNW
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.39	0.059	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:11	QNW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	84.8	10-130		5/18/24 11:11
13C5-PFPeA	88.0	35-150		5/18/24 11:11
13C5-PFHxA	87.1	55-150		5/18/24 11:11
13C4-PFHpA	92.5	55-150		5/18/24 11:11
13C8-PFOA	87.5	60-140		5/18/24 11:11
13C9-PFNA	84.2	55-140		5/18/24 11:11
13C6-PFDA	86.0	50-140		5/18/24 11:11
13C7-PFUnA	93.3	30-140		5/18/24 11:11
13C2-PFDoA	86.9	10-150		5/18/24 11:11
13C2-PFTeDA	87.8	10-130		5/18/24 11:11
13C3-PFBS	85.8	55-150		5/18/24 11:11
13C3-PFHxS	85.2	55-150		5/18/24 11:11
13C8-PFOS	83.8	45-140		5/18/24 11:11
13C2-4:2FTS	115	60-200		5/18/24 11:11
13C2-6:2FTS	130	60-200		5/18/24 11:11
13C2-8:2FTS	143	50-200		5/18/24 11:11
13C8-PFOSA	76.4	30-130		5/18/24 11:11
D3-NMeFOSA	39.5	15-130		5/18/24 11:11
D5-NEtFOSA	32.9	10-130		5/18/24 11:11
D3-NMeFOSAA	113	45-200		5/18/24 11:11
D5-NEtFOSAA	104	10-200		5/18/24 11:11
D7-NMeFOSE	54.8	10-150		5/18/24 11:11
D9-NEtFOSE	51.6	10-150		5/18/24 11:11
13C3-HFPO-DA	86.7	25-160		5/18/24 11:11

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB4A | Sampled: 5/8/2024 14:53

Sample ID: 24E1437-12

Sample Matrix: Soil

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.062	0.028	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:17	TG
gamma-Chlordane [1]	ND	0.062	0.027	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:17	TG
Aldrin [1]	ND	0.062	0.0060	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:17	TG
alpha-BHC [1]	ND	0.062	0.029	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:17	TG
beta-BHC [1]	ND	0.062	0.033	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:17	TG
delta-BHC [1]	ND	0.062	0.033	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:17	TG
gamma-BHC (Lindane) [1]	ND	0.025	0.0085	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:17	TG
4,4'-DDD [1]	ND	0.049	0.010	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:17	TG
4,4'-DDE [1]	ND	0.049	0.0054	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:17	TG
4,4'-DDT [1]	ND	0.049	0.0063	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:17	TG
Dieldrin [1]	ND	0.049	0.0059	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:17	TG
Endosulfan I [1]	ND	0.062	0.029	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:17	TG
Endosulfan II [1]	ND	0.098	0.026	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:17	TG
Endosulfan sulfate [1]	ND	0.098	0.024	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:17	TG
Endrin [1]	ND	0.098	0.031	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:17	TG
Endrin aldehyde [1]	ND	0.098	0.024	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 18:28	TG
Endrin ketone [1]	ND	0.098	0.025	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:17	TG
Heptachlor [1]	ND	0.062	0.0068	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:17	TG
Heptachlor epoxide [1]	ND	0.062	0.0071	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:17	TG
Methoxychlor [2]	ND	0.62	0.059	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:17	TG
Toxaphene [1]	ND	1.2	0.51	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:17	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.4	30-150		5/14/24 18:28
Decachlorobiphenyl [1]	77.2	30-150		5/14/24 15:17
Decachlorobiphenyl [2]	81.3	30-150		5/14/24 15:17
Decachlorobiphenyl [2]	87.1	30-150		5/14/24 18:28
Tetrachloro-m-xylene [1]	78.1	30-150		5/14/24 15:17
Tetrachloro-m-xylene [1]	81.6	30-150		5/14/24 18:28
Tetrachloro-m-xylene [2]	78.6	30-150		5/14/24 15:17
Tetrachloro-m-xylene [2]	80.6	30-150		5/14/24 18:28

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB4A | Sampled: 5/8/2024 14:53

Sample ID: 24E1437-12

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	0.024	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 20:04	SFM
Aroclor-1221 [1]	ND	0.098	0.046	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 20:04	SFM
Aroclor-1232 [1]	ND	0.098	0.024	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 20:04	SFM
Aroclor-1242 [1]	ND	0.098	0.027	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 20:04	SFM
Aroclor-1248 [1]	ND	0.098	0.024	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 20:04	SFM
Aroclor-1254 [1]	1.1	0.098	0.029	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 20:04	SFM
Aroclor-1260 [1]	ND	0.098	0.020	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 20:04	SFM
Aroclor-1262 [1]	ND	0.098	0.025	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 20:04	SFM
Aroclor-1268 [1]	ND	0.098	0.026	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 20:04	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	89.9	30-150		5/14/24 20:04
Decachlorobiphenyl [2]	89.8	30-150		5/14/24 20:04
Tetrachloro-m-xylene [1]	90.6	30-150		5/14/24 20:04
Tetrachloro-m-xylene [2]	94.1	30-150		5/14/24 20:04

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Date Received: 5/10/2024

Field Sample #: SB4A | Sampled: 5/8/2024 14:53

Sample ID: 24E1437-12

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	18000	20	6.3	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:41	ICP
Antimony	ND	2.0	0.54	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 19:00	NC
Arsenic	6.8	4.0	0.57	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:41	ICP
Barium	390	2.0	0.43	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:41	ICP
Beryllium	1.1	0.20	0.061	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:41	ICP
Cadmium	4.0	0.40	0.19	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:41	ICP
Calcium	12000	20	10	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:41	ICP
Chromium	150	0.81	0.51	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:41	ICP
Cobalt	17	2.0	0.34	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:41	ICP
Copper	75	1.6	1.4	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:41	ICP
Iron	49000	400	190	mg/Kg dry	20		SW-846 6010D	5/17/24	5/23/24 18:59	HNN
Lead	4600	6.0	4.2	mg/Kg dry	10		SW-846 6010D	5/17/24	5/23/24 0:03	ICP
Magnesium	6700	20	4.7	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:41	ICP
Manganese	850	0.40	0.23	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:41	ICP
Mercury	0.14	0.031	0.014	mg/Kg dry	1		SW-846 7471B	5/21/24	5/23/24 15:42	AV
Nickel	46	0.81	0.56	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:41	ICP
Potassium	2000	2000	500	mg/Kg dry	10	D, J	SW-846 6010D	5/17/24	5/23/24 0:03	ICP
Selenium	ND	4.0	1.0	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:41	ICP
Silver	ND	0.40	0.25	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:41	ICP
Sodium	82	200	60	mg/Kg dry	1	J	SW-846 6010D	5/17/24	5/22/24 21:41	ICP
Thallium	ND	2.0	0.64	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 19:00	NC
Vanadium	27	0.81	0.45	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:41	ICP
Zinc	1100	8.1	7.1	mg/Kg dry	10		SW-846 6010D	5/17/24	5/23/24 0:03	ICP

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB4A | Sampled: 5/8/2024 14:53

Sample ID: 24E1437-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	77.9			% Wt	1		SM 2540G	5/13/24	5/13/24 17:51	NC
Cyanide	ND	0.59	0.44	mg/Kg dry	1		SW-846 9014	5/15/24	5/16/24 12:12	DET

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB5 | Sampled: 5/8/2024 15:09

Sample ID: 24E1437-13

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	16000	23	7.2	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:48	ICP
Antimony	ND	2.3	0.61	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 19:07	NC
Arsenic	5.1	4.6	0.65	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:48	ICP
Barium	130	2.3	0.49	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:48	ICP
Beryllium	0.86	0.23	0.070	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:48	ICP
Cadmium	0.29	0.46	0.22	mg/Kg dry	1	J	SW-846 6010D	5/17/24	5/22/24 21:48	ICP
Calcium	4200	23	12	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:48	ICP
Chromium	22	0.92	0.58	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:48	ICP
Cobalt	13	2.3	0.39	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:48	ICP
Copper	62	1.8	1.6	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:48	ICP
Iron	32000	230	110	mg/Kg dry	10		SW-846 6010D	5/17/24	5/23/24 0:10	ICP
Lead	110	0.69	0.48	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:48	ICP
Magnesium	5100	23	5.3	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:48	ICP
Manganese	740	0.46	0.26	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:48	ICP
Mercury	0.068	0.034	0.015	mg/Kg dry	1		SW-846 7471B	5/21/24	5/23/24 15:45	AV
Nickel	38	0.92	0.63	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:48	ICP
Potassium	2000	2300	570	mg/Kg dry	10	D, J	SW-846 6010D	5/17/24	5/23/24 0:10	ICP
Selenium	ND	4.6	1.1	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:48	ICP
Silver	ND	0.46	0.28	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:48	ICP
Sodium	ND	230	68	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:48	ICP
Thallium	ND	2.3	0.73	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 19:07	NC
Vanadium	24	0.92	0.51	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:48	ICP
Zinc	150	0.92	0.81	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:48	ICP

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB5 | Sampled: 5/8/2024 15:09

Sample ID: 24E1437-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	72.5			% Wt	1		SM 2540G	5/13/24	5/13/24 17:51	NC

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB5A | Sampled: 5/8/2024 15:15

Sample ID: 24E1437-14

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	17000	22	6.9	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:55	ICP
Antimony	ND	2.2	0.58	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 19:15	NC
Arsenic	5.4	4.4	0.61	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:55	ICP
Barium	140	2.2	0.46	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:55	ICP
Beryllium	0.90	0.22	0.066	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:55	ICP
Cadmium	0.28	0.44	0.21	mg/Kg dry	1	J	SW-846 6010D	5/17/24	5/22/24 21:55	ICP
Calcium	3900	22	11	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:55	ICP
Chromium	23	0.87	0.55	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:55	ICP
Cobalt	14	2.2	0.37	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:55	ICP
Copper	62	1.7	1.6	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:55	ICP
Iron	33000	220	100	mg/Kg dry	10		SW-846 6010D	5/17/24	5/23/24 0:16	ICP
Lead	110	0.65	0.46	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:55	ICP
Magnesium	5300	22	5.1	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:55	ICP
Manganese	740	0.44	0.25	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:55	ICP
Mercury	0.076	0.031	0.014	mg/Kg dry	1		SW-846 7471B	5/21/24	5/23/24 15:47	AV
Nickel	38	0.87	0.60	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:55	ICP
Potassium	2000	2200	540	mg/Kg dry	10	D, J	SW-846 6010D	5/17/24	5/23/24 0:16	ICP
Selenium	ND	4.4	1.1	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:55	ICP
Silver	ND	0.44	0.27	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:55	ICP
Sodium	ND	220	65	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:55	ICP
Thallium	ND	2.2	0.70	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 19:15	NC
Vanadium	26	0.87	0.48	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:55	ICP
Zinc	140	0.87	0.77	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:55	ICP

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB5A | Sampled: 5/8/2024 15:15

Sample ID: 24E1437-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	76.4			% Wt	1		SM 2540G	5/13/24	5/13/24 17:51	NC

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB6 | Sampled: 5/8/2024 15:20

Sample ID: 24E1437-15

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	15000	20	6.3	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:01	ICP
Antimony	ND	2.0	0.54	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 19:22	NC
Arsenic	8.9	4.0	0.57	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:01	ICP
Barium	150	2.0	0.43	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:01	ICP
Beryllium	0.76	0.20	0.061	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:01	ICP
Cadmium	0.29	0.40	0.19	mg/Kg dry	1	J	SW-846 6010D	5/17/24	5/22/24 22:01	ICP
Calcium	26000	200	100	mg/Kg dry	10		SW-846 6010D	5/17/24	5/23/24 0:22	ICP
Chromium	24	0.80	0.51	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:01	ICP
Cobalt	12	2.0	0.34	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:01	ICP
Copper	56	1.6	1.4	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:01	ICP
Iron	33000	200	93	mg/Kg dry	10		SW-846 6010D	5/17/24	5/23/24 0:22	ICP
Lead	220	0.60	0.42	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:01	ICP
Magnesium	5300	20	4.7	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:01	ICP
Manganese	570	0.40	0.23	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:01	ICP
Mercury	0.069	0.029	0.013	mg/Kg dry	1		SW-846 7471B	5/21/24	5/23/24 15:50	AV
Nickel	34	0.80	0.55	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:01	ICP
Potassium	1900	2000	500	mg/Kg dry	10	D, J	SW-846 6010D	5/17/24	5/23/24 0:22	ICP
Selenium	ND	4.0	1.0	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:01	ICP
Silver	ND	0.40	0.25	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:01	ICP
Sodium	73	200	60	mg/Kg dry	1	J	SW-846 6010D	5/17/24	5/22/24 22:01	ICP
Thallium	ND	2.0	0.64	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 19:22	NC
Vanadium	24	0.80	0.44	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:01	ICP
Zinc	140	0.80	0.71	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:01	ICP

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB6 | Sampled: 5/8/2024 15:20

Sample ID: 24E1437-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	78.5			% Wt	1		SM 2540G	5/13/24	5/13/24 17:51	NC

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB6A | Sampled: 5/8/2024 15:22

Sample ID: 24E1437-16

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	16000	20	6.2	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:08	ICP
Antimony	ND	2.0	0.53	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 19:41	NC
Arsenic	6.3	3.9	0.56	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:08	ICP
Barium	120	2.0	0.42	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:08	ICP
Beryllium	0.87	0.20	0.060	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:08	ICP
Cadmium	0.28	0.39	0.19	mg/Kg dry	1	J	SW-846 6010D	5/17/24	5/22/24 22:08	ICP
Calcium	4200	20	10	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:08	ICP
Chromium	23	0.79	0.50	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:08	ICP
Cobalt	14	2.0	0.33	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:08	ICP
Copper	59	1.6	1.4	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:08	ICP
Iron	36000	200	91	mg/Kg dry	10		SW-846 6010D	5/17/24	5/23/24 0:27	ICP
Lead	130	0.59	0.41	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:08	ICP
Magnesium	5900	20	4.6	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:08	ICP
Manganese	630	0.39	0.22	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:08	ICP
Mercury	0.075	0.030	0.014	mg/Kg dry	1		SW-846 7471B	5/21/24	5/23/24 15:53	AV
Nickel	39	0.79	0.54	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:08	ICP
Potassium	1900	2000	490	mg/Kg dry	10	D, J	SW-846 6010D	5/17/24	5/23/24 0:27	ICP
Selenium	ND	3.9	0.98	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:08	ICP
Silver	ND	0.39	0.24	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:08	ICP
Sodium	61	200	59	mg/Kg dry	1	J	SW-846 6010D	5/17/24	5/22/24 22:08	ICP
Thallium	ND	2.0	0.63	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 19:41	NC
Vanadium	25	0.79	0.44	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:08	ICP
Zinc	150	0.79	0.69	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:08	ICP

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB6A | Sampled: 5/8/2024 15:22

Sample ID: 24E1437-16

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.4			% Wt	1		SM 2540G	5/13/24	5/13/24 17:51	NC

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB7 | Sampled: 5/8/2024 15:39

Sample ID: 24E1437-17

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.15	0.078	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
Benzene	ND	0.0030	0.00094	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
Bromochloromethane	ND	0.0030	0.0013	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
Bromodichloromethane	ND	0.0030	0.00077	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
Bromoform	ND	0.0030	0.0013	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
Bromomethane	ND	0.015	0.0027	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
2-Butanone (MEK)	ND	0.060	0.013	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
n-Butylbenzene	ND	0.0030	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
sec-Butylbenzene	ND	0.0030	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
tert-Butylbenzene	ND	0.0030	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
Carbon Disulfide	ND	0.030	0.015	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
Carbon Tetrachloride	ND	0.0030	0.00087	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
Chlorobenzene	ND	0.0030	0.00073	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
Chlorodibromomethane	ND	0.0015	0.00099	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
Chloroethane	ND	0.030	0.0021	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
Chloroform	ND	0.0060	0.00099	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
Chloromethane	ND	0.015	0.0018	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
Cyclohexane	ND	0.015	0.0061	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0030	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
1,2-Dibromoethane (EDB)	ND	0.0015	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
1,2-Dichlorobenzene	ND	0.0030	0.00097	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
1,3-Dichlorobenzene	ND	0.0030	0.00087	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
1,4-Dichlorobenzene	ND	0.0030	0.00094	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.030	0.0013	mg/Kg dry	1	V-05	SW-846 8260D	5/13/24	5/13/24 10:18	MFF
1,1-Dichloroethane	ND	0.0030	0.00092	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
1,2-Dichloroethane	ND	0.0030	0.0010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
1,1-Dichloroethylene	ND	0.0060	0.0014	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
cis-1,2-Dichloroethylene	ND	0.0030	0.0010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
trans-1,2-Dichloroethylene	ND	0.0030	0.00090	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
1,2-Dichloropropane	ND	0.0030	0.00093	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
cis-1,3-Dichloropropene	ND	0.0015	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
trans-1,3-Dichloropropene	ND	0.0015	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
Ethylbenzene	ND	0.0030	0.00087	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
2-Hexanone (MBK)	ND	0.030	0.010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
Isopropylbenzene (Cumene)	ND	0.0030	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0030	0.00098	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
Methyl Acetate	0.0022	0.0030	0.0020	mg/Kg dry	1	J	SW-846 8260D	5/13/24	5/13/24 10:18	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0060	0.0013	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
Methyl Cyclohexane	ND	0.0030	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
Methylene Chloride	ND	0.030	0.0014	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.030	0.013	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
Naphthalene	ND	0.0060	0.0015	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
n-Propylbenzene	ND	0.0030	0.0010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
Styrene	ND	0.0030	0.00096	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB7 | Sampled: 5/8/2024 15:39

Sample ID: 24E1437-17

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	0.0015	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
Tetrachloroethylene	ND	0.0030	0.0013	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
Toluene	ND	0.0030	0.00089	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
1,2,3-Trichlorobenzene	ND	0.0030	0.0010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
1,2,4-Trichlorobenzene	ND	0.0030	0.00099	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
1,1,1-Trichloroethane	ND	0.0030	0.00089	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
1,1,2-Trichloroethane	ND	0.0030	0.00078	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
Trichloroethylene	ND	0.0030	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
Trichlorofluoromethane (Freon 11)	ND	0.015	0.0018	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
1,2,3-Trichloropropane	ND	0.0030	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.015	0.0016	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
1,2,4-Trimethylbenzene	ND	0.0030	0.0015	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
1,3,5-Trimethylbenzene	ND	0.0030	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
Vinyl Chloride	ND	0.015	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
m+p Xylene	ND	0.0060	0.0022	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
o-Xylene	ND	0.0030	0.0010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
Xylenes (total)	ND	0.0030	0.0030	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	98.3	70-130		5/13/24 10:18
Toluene-d8	92.0	70-130		5/13/24 10:18
4-Bromofluorobenzene	85.6	70-130		5/13/24 10:18

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Field Sample #: SB7 | Sampled: 5/8/2024 15:39

Sample ID: 24E1437-17

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.95	0.065	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Atrazine	ND	0.95	0.062	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Benzaldehyde	0.086	0.48	0.077	mg/Kg dry	1	J	SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Biphenyl	ND	0.95	0.061	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Caprolactam	ND	0.48	0.084	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Acenaphthene	ND	0.24	0.046	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Acenaphthylene	ND	0.24	0.044	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Acetophenone	ND	0.48	0.050	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Aniline	ND	0.48	0.084	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Anthracene	ND	0.24	0.043	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Benzo(a)anthracene	ND	0.24	0.039	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Benzo(a)pyrene	ND	0.24	0.044	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Benzo(b)fluoranthene	ND	0.24	0.039	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Benzo(g,h,i)perylene	ND	0.24	0.069	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Benzo(k)fluoranthene	ND	0.24	0.044	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Bis(2-chloroethoxy)methane	ND	0.48	0.052	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Bis(2-chloroethyl)ether	ND	0.48	0.069	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Bis(2-chloroisopropyl)ether	ND	0.48	0.30	mg/Kg dry	1	V-06	SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.48	0.057	mg/Kg dry	1	L-05, V-06	SW-846 8270E	5/12/24	5/16/24 18:14	BGL
4-Bromophenylphenylether	ND	0.48	0.044	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Butylbenzylphthalate	ND	0.48	0.054	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Carbazole	ND	0.24	0.049	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
4-Chloroaniline	ND	0.94	0.086	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
4-Chloro-3-methylphenol	ND	0.94	0.050	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
2-Chloronaphthalene	ND	0.48	0.042	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
2-Chlorophenol	ND	0.48	0.049	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
4-Chlorophenylphenylether	ND	0.48	0.040	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Chrysene	ND	0.24	0.043	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Dibenz(a,h)anthracene	ND	0.24	0.067	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Dibenzofuran	ND	0.48	0.043	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Di-n-butylphthalate	ND	0.48	0.18	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
3,3-Dichlorobenzidine	ND	0.24	0.10	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
2,4-Dichlorophenol	ND	0.48	0.046	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Diethylphthalate	ND	0.48	0.047	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
2,4-Dimethylphenol	ND	0.48	0.11	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Dimethylphthalate	ND	0.48	0.046	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
4,6-Dinitro-2-methylphenol	ND	0.48	0.38	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
2,4-Dinitrophenol	ND	0.94	0.37	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
2,4-Dinitrotoluene	ND	0.48	0.049	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
2,6-Dinitrotoluene	ND	0.48	0.051	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Di-n-octylphthalate	ND	0.48	0.068	mg/Kg dry	1	V-20	SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Fluoranthene	ND	0.24	0.040	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Fluorene	ND	0.24	0.043	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Hexachlorobenzene	ND	0.48	0.047	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL

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Date Received: 5/10/2024

Field Sample #: SB7 | Sampled: 5/8/2024 15:39

Sample ID: 24E1437-17

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.48	0.044	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Hexachlorocyclopentadiene	ND	0.48	0.32	mg/Kg dry	1	L-04, V-05	SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Hexachloroethane	ND	0.48	0.045	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Indeno(1,2,3-cd)pyrene	ND	0.24	0.078	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Isophorone	ND	0.48	0.051	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
1-Methylnaphthalene	ND	0.24	0.048	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
2-Methylnaphthalene	ND	0.24	0.041	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
2-Methylphenol	ND	0.48	0.065	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
3/4-Methylphenol	ND	0.48	0.064	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Naphthalene	ND	0.24	0.085	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
2-Nitroaniline	ND	0.48	0.059	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
3-Nitroaniline	ND	0.48	0.10	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
4-Nitroaniline	ND	0.48	0.054	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Nitrobenzene	ND	0.48	0.061	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
2-Nitrophenol	ND	0.48	0.047	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
4-Nitrophenol	ND	0.94	0.13	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	0.48	0.061	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
N-Nitrosodi-n-propylamine	ND	0.48	0.067	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Pentachlorophenol	ND	0.48	0.17	mg/Kg dry	1	V-05	SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Phenanthrene	ND	0.24	0.043	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Phenol	ND	0.48	0.061	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Pyrene	0.053	0.24	0.050	mg/Kg dry	1	J	SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Pyridine	ND	0.48	0.056	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.48	0.048	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
2,4,5-Trichlorophenol	ND	0.48	0.049	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
2,4,6-Trichlorophenol	ND	0.48	0.046	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
2-Fluorophenol	33.2		30-130		5/16/24 18:14
Phenol-d6	34.6		30-130		5/16/24 18:14
Nitrobenzene-d5	40.1		30-130		5/16/24 18:14
2-Fluorobiphenyl	37.9		30-130		5/16/24 18:14
2,4,6-Tribromophenol	**26.4**	*	30-130	S-07	5/16/24 18:14
p-Terphenyl-d14	50.0		30-130		5/16/24 18:14

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB7 | Sampled: 5/8/2024 15:39

Sample ID: 24E1437-17

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.069	0.055	mg/Kg dry	1		SW-846 8270E	5/10/24	5/13/24 19:02	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	28.2	15-110		5/13/24 19:02

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB7 | Sampled: 5/8/2024 15:39

Sample ID: 24E1437-17

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.78	0.32	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:26	QNW
Perfluoropentanoic acid (PFPeA)	0.082	0.39	0.044	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 11:26	QNW
Perfluorohexanoic acid (PFHxA)	0.083	0.20	0.032	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 11:26	QNW
Perfluoroheptanoic acid (PFHpA)	0.12	0.20	0.014	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 11:26	QNW
Perfluorooctanoic acid (PFOA)	0.49	0.20	0.030	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:26	QNW
Perfluorononanoic acid (PFNA)	0.21	0.20	0.014	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:26	QNW
Perfluorodecanoic acid (PFDA)	0.11	0.20	0.017	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 11:26	QNW
Perfluoroundecanoic acid (PFUnA)	0.12	0.20	0.023	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 11:26	QNW
Perfluorododecanoic acid (PFDoA)	0.047	0.20	0.021	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 11:26	QNW
Perfluorotridecanoic acid (PFTrDA)	0.040	0.20	0.022	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 11:26	QNW
Perfluorotetradecanoic acid (PFTeDA)	0.023	0.20	0.020	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 11:26	QNW
Perfluorobutanesulfonic acid (PFBS)	0.035	0.20	0.020	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 11:26	QNW
Perfluoropentanesulfonic acid (PFPeS)	ND	0.20	0.025	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:26	QNW
Perfluorohexanesulfonic acid (PFHxS)	ND	0.20	0.077	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:26	QNW
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.20	0.021	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:26	QNW
Perfluorooctanesulfonic acid (PFOS)	0.62	0.20	0.031	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:26	QNW
Perfluorononanesulfonic acid (PFNS)	ND	0.20	0.022	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:26	QNW
Perfluorodecanesulfonic acid (PFDS)	ND	0.20	0.031	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:26	QNW
Perfluorododecanesulfonic acid (PFDoS)	ND	0.20	0.030	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:26	QNW
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.78	0.068	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:26	QNW
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.78	0.49	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:26	QNW
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.78	0.091	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:26	QNW
Perfluorooctanesulfonamide (PFOSA)	ND	0.20	0.030	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:26	QNW
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.20	0.024	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:26	QNW
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.20	0.023	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:26	QNW
N-MeFOSAA (NMeFOSAA)	ND	0.20	0.035	µg/kg dry	1	V-05	Draft Method 1633	5/15/24	5/18/24 11:26	QNW
N-EtFOSAA (NEtFOSAA)	ND	0.20	0.029	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:26	QNW
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	2.0	0.21	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:26	QNW
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	2.0	0.21	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:26	QNW
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.78	0.050	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:26	QNW
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.78	0.058	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:26	QNW
9Cl-PF3ONS (F53B Minor)	ND	0.78	0.056	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:26	QNW
11Cl-PF3OUdS (F53B Major)	ND	0.78	0.087	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:26	QNW
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	2.0	0.19	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:26	QNW
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	9.8	1.3	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:26	QNW
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	9.8	1.5	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:26	QNW
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.39	0.031	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:26	QNW
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.39	0.032	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:26	QNW

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB7 | Sampled: 5/8/2024 15:39

Sample ID: 24E1437-17

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.39	0.032	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:26	QNW
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.39	0.059	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:26	QNW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	79.6	10-130		5/18/24 11:26
13C5-PFPeA	82.2	35-150		5/18/24 11:26
13C5-PFHxA	79.9	55-150		5/18/24 11:26
13C4-PFHpA	85.3	55-150		5/18/24 11:26
13C8-PFOA	79.5	60-140		5/18/24 11:26
13C9-PFNA	80.9	55-140		5/18/24 11:26
13C6-PFDA	78.3	50-140		5/18/24 11:26
13C7-PFUnA	84.8	30-140		5/18/24 11:26
13C2-PFDoA	79.5	10-150		5/18/24 11:26
13C2-PFTeDA	71.9	10-130		5/18/24 11:26
13C3-PFBS	82.8	55-150		5/18/24 11:26
13C3-PFHxS	80.7	55-150		5/18/24 11:26
13C8-PFOS	76.1	45-140		5/18/24 11:26
13C2-4:2FTS	115	60-200		5/18/24 11:26
13C2-6:2FTS	140	60-200		5/18/24 11:26
13C2-8:2FTS	141	50-200		5/18/24 11:26
13C8-PFOSA	61.5	30-130		5/18/24 11:26
D3-NMeFOSA	24.9	15-130		5/18/24 11:26
D5-NEtFOSA	18.0	10-130		5/18/24 11:26
D3-NMeFOSAA	93.6	45-200		5/18/24 11:26
D5-NEtFOSAA	96.6	10-200		5/18/24 11:26
D7-NMeFOSE	38.9	10-150		5/18/24 11:26
D9-NEtFOSE	31.9	10-150		5/18/24 11:26
13C3-HFPO-DA	77.6	25-160		5/18/24 11:26

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB7 | Sampled: 5/8/2024 15:39

Sample ID: 24E1437-17

Sample Matrix: Soil

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.14	0.064	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 15:29	TG
gamma-Chlordane [1]	ND	0.14	0.060	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 15:29	TG
Aldrin [1]	ND	0.14	0.013	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 15:29	TG
alpha-BHC [1]	ND	0.14	0.065	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 15:29	TG
beta-BHC [1]	ND	0.14	0.073	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 15:29	TG
delta-BHC [1]	ND	0.14	0.073	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 15:29	TG
gamma-BHC (Lindane) [1]	ND	0.055	0.019	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 15:29	TG
4,4'-DDD [1]	ND	0.11	0.023	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 15:29	TG
4,4'-DDE [1]	ND	0.11	0.012	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 15:29	TG
4,4'-DDT [1]	ND	0.11	0.014	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 15:29	TG
Dieldrin [1]	ND	0.11	0.013	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 15:29	TG
Endosulfan I [1]	ND	0.14	0.066	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 15:29	TG
Endosulfan II [1]	ND	0.22	0.059	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 15:29	TG
Endosulfan sulfate [1]	ND	0.22	0.053	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 15:29	TG
Endrin [1]	ND	0.22	0.070	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 15:29	TG
Endrin aldehyde [1]	ND	0.22	0.054	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 18:40	TG
Endrin ketone [1]	ND	0.22	0.055	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 15:29	TG
Heptachlor [1]	ND	0.14	0.015	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 15:29	TG
Heptachlor epoxide [1]	ND	0.14	0.016	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 15:29	TG
Methoxychlor [2]	ND	1.4	0.13	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 15:29	TG
Toxaphene [1]	ND	2.7	1.1	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 15:29	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.9	30-150		5/14/24 15:29
Decachlorobiphenyl [1]	88.0	30-150		5/14/24 18:40
Decachlorobiphenyl [2]	90.0	30-150		5/14/24 15:29
Decachlorobiphenyl [2]	90.9	30-150		5/14/24 18:40
Tetrachloro-m-xylene [1]	87.9	30-150		5/14/24 15:29
Tetrachloro-m-xylene [1]	92.1	30-150		5/14/24 18:40
Tetrachloro-m-xylene [2]	87.5	30-150		5/14/24 15:29
Tetrachloro-m-xylene [2]	88.6	30-150		5/14/24 18:40

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB7 | Sampled: 5/8/2024 15:39

Sample ID: 24E1437-17

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	0.027	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 20:21	SFM
Aroclor-1221 [1]	ND	0.11	0.051	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 20:21	SFM
Aroclor-1232 [1]	ND	0.11	0.027	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 20:21	SFM
Aroclor-1242 [1]	ND	0.11	0.030	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 20:21	SFM
Aroclor-1248 [1]	ND	0.11	0.026	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 20:21	SFM
Aroclor-1254 [2]	0.091	0.11	0.042	mg/Kg dry	4	J	SW-846 8082A	5/10/24	5/14/24 20:21	SFM
Aroclor-1260 [1]	ND	0.11	0.023	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 20:21	SFM
Aroclor-1262 [1]	ND	0.11	0.028	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 20:21	SFM
Aroclor-1268 [1]	ND	0.11	0.029	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 20:21	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.0	30-150		5/14/24 20:21
Decachlorobiphenyl [2]	82.2	30-150		5/14/24 20:21
Tetrachloro-m-xylene [1]	85.0	30-150		5/14/24 20:21
Tetrachloro-m-xylene [2]	88.4	30-150		5/14/24 20:21

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB7 | Sampled: 5/8/2024 15:39

Sample ID: 24E1437-17

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	14000	23	7.3	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:14	ICP
Antimony	ND	2.3	0.62	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 19:48	NC
Arsenic	4.6	4.6	0.65	mg/Kg dry	1	J	SW-846 6010D	5/17/24	5/22/24 22:14	ICP
Barium	100	2.3	0.49	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:14	ICP
Beryllium	0.57	0.23	0.070	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:14	ICP
Cadmium	0.38	0.46	0.22	mg/Kg dry	1	J	SW-846 6010D	5/17/24	5/22/24 22:14	ICP
Calcium	5500	23	12	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:14	ICP
Chromium	20	0.93	0.59	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:14	ICP
Cobalt	9.6	2.3	0.39	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:14	ICP
Copper	40	1.9	1.6	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:14	ICP
Iron	27000	230	110	mg/Kg dry	10		SW-846 6010D	5/17/24	5/23/24 0:33	ICP
Lead	190	0.69	0.49	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:14	ICP
Magnesium	4600	23	5.4	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:14	ICP
Manganese	620	0.46	0.26	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:14	ICP
Mercury	0.071	0.033	0.015	mg/Kg dry	1		SW-846 7471B	5/21/24	5/23/24 15:55	AV
Nickel	23	0.93	0.64	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:14	ICP
Potassium	1100	2300	570	mg/Kg dry	10	D, J	SW-846 6010D	5/17/24	5/23/24 0:33	ICP
Selenium	ND	4.6	1.1	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:14	ICP
Silver	ND	0.46	0.28	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:14	ICP
Sodium	ND	230	69	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:14	ICP
Thallium	ND	2.3	0.74	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 19:48	NC
Vanadium	30	0.93	0.51	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:14	ICP
Zinc	120	0.93	0.81	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:14	ICP

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB7 | Sampled: 5/8/2024 15:39

Sample ID: 24E1437-17

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	69.3			% Wt	1		SM 2540G	5/13/24	5/13/24 17:51	NC
Cyanide	0.53	0.65	0.49	mg/Kg dry	1	J	SW-846 9014	5/15/24	5/16/24 12:12	DET

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB7A | Sampled: 5/8/2024 15:57

Sample ID: 24E1437-18

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	13000	20	6.3	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:31	ICP
Antimony	ND	2.0	0.53	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 19:55	NC
Arsenic	4.9	4.0	0.56	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:31	ICP
Barium	99	2.0	0.43	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:31	ICP
Beryllium	0.54	0.20	0.061	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:31	ICP
Cadmium	0.41	0.40	0.19	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:31	ICP
Calcium	9300	20	10	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:31	ICP
Chromium	22	0.80	0.51	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:31	ICP
Cobalt	8.9	2.0	0.34	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:31	ICP
Copper	43	1.6	1.4	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:31	ICP
Iron	26000	200	93	mg/Kg dry	10		SW-846 6010D	5/17/24	5/23/24 0:38	ICP
Lead	190	0.60	0.42	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:31	ICP
Magnesium	6800	20	4.7	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:31	ICP
Manganese	650	0.40	0.23	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:31	ICP
Mercury	0.065	0.031	0.014	mg/Kg dry	1		SW-846 7471B	5/21/24	5/23/24 15:58	AV
Nickel	24	0.80	0.55	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:31	ICP
Potassium	1000	2000	490	mg/Kg dry	10	D, J	SW-846 6010D	5/17/24	5/23/24 0:38	ICP
Selenium	ND	4.0	0.99	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:31	ICP
Silver	ND	0.40	0.25	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:31	ICP
Sodium	ND	200	59	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:31	ICP
Thallium	ND	2.0	0.64	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 19:55	NC
Vanadium	36	0.80	0.44	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:31	ICP
Zinc	130	0.80	0.70	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:31	ICP

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB7A | Sampled: 5/8/2024 15:57

Sample ID: 24E1437-18

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.7			% Wt	1		SM 2540G	5/13/24	5/13/24 17:51	NC

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: DUP | Sampled: 5/8/2024 15:45

Sample ID: 24E1437-19

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	0.073	0.14	0.073	mg/Kg dry	1	V-35, J	SW-846 8260D	5/13/24	5/13/24 10:44	MFF
Benzene	ND	0.0028	0.00088	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
Bromochloromethane	ND	0.0028	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
Bromodichloromethane	ND	0.0028	0.00072	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
Bromoform	ND	0.0028	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
Bromomethane	ND	0.014	0.0025	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
2-Butanone (MEK)	ND	0.056	0.012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
n-Butylbenzene	ND	0.0028	0.0010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
sec-Butylbenzene	ND	0.0028	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
tert-Butylbenzene	ND	0.0028	0.0010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
Carbon Disulfide	ND	0.028	0.014	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
Carbon Tetrachloride	ND	0.0028	0.00082	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
Chlorobenzene	ND	0.0028	0.00068	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
Chlorodibromomethane	ND	0.0014	0.00093	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
Chloroethane	ND	0.028	0.0020	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
Chloroform	ND	0.0056	0.00092	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
Chloromethane	ND	0.014	0.0017	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
Cyclohexane	ND	0.014	0.0057	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0028	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
1,2-Dibromoethane (EDB)	ND	0.0014	0.0010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
1,2-Dichlorobenzene	ND	0.0028	0.00090	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
1,3-Dichlorobenzene	ND	0.0028	0.00081	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
1,4-Dichlorobenzene	ND	0.0028	0.00088	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.028	0.0012	mg/Kg dry	1	V-05	SW-846 8260D	5/13/24	5/13/24 10:44	MFF
1,1-Dichloroethane	ND	0.0028	0.00086	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
1,2-Dichloroethane	ND	0.0028	0.00097	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
1,1-Dichloroethylene	ND	0.0056	0.0014	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
cis-1,2-Dichloroethylene	ND	0.0028	0.00098	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
trans-1,2-Dichloroethylene	ND	0.0028	0.00084	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
1,2-Dichloropropane	ND	0.0028	0.00087	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
cis-1,3-Dichloropropene	ND	0.0014	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
trans-1,3-Dichloropropene	ND	0.0014	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
Ethylbenzene	ND	0.0028	0.00081	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
2-Hexanone (MBK)	ND	0.028	0.0097	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
Isopropylbenzene (Cumene)	ND	0.0028	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0028	0.00091	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
Methyl Acetate	ND	0.0028	0.0019	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0056	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
Methyl Cyclohexane	ND	0.0028	0.0010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
Methylene Chloride	ND	0.028	0.0013	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.028	0.012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
Naphthalene	ND	0.0056	0.0014	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
n-Propylbenzene	ND	0.0028	0.00093	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
Styrene	ND	0.0028	0.00090	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: DUP | Sampled: 5/8/2024 15:45

Sample ID: 24E1437-19

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	0.0014	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
Tetrachloroethylene	ND	0.0028	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
Toluene	ND	0.0028	0.00084	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
1,2,3-Trichlorobenzene	ND	0.0028	0.00093	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
1,2,4-Trichlorobenzene	ND	0.0028	0.00093	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
1,1,1-Trichloroethane	ND	0.0028	0.00084	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
1,1,2-Trichloroethane	ND	0.0028	0.00073	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
Trichloroethylene	ND	0.0028	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
Trichlorofluoromethane (Freon 11)	ND	0.014	0.0017	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
1,2,3-Trichloropropane	ND	0.0028	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.014	0.0015	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
1,2,4-Trimethylbenzene	ND	0.0028	0.0014	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
1,3,5-Trimethylbenzene	ND	0.0028	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
Vinyl Chloride	ND	0.014	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
m+p Xylene	ND	0.0056	0.0020	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
o-Xylene	ND	0.0028	0.00095	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
Xylenes (total)	ND	0.0028	0.0028	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	95.0	70-130		5/13/24 10:44
Toluene-d8	92.3	70-130		5/13/24 10:44
4-Bromofluorobenzene	83.8	70-130		5/13/24 10:44

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: DUP | Sampled: 5/8/2024 15:45

Sample ID: 24E1437-19

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.95	0.065	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Atrazine	ND	0.95	0.062	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Benzaldehyde	0.098	0.48	0.077	mg/Kg dry	1	J	SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Biphenyl	ND	0.95	0.061	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Caprolactam	ND	0.48	0.084	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Acenaphthene	ND	0.24	0.046	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Acenaphthylene	ND	0.24	0.044	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Acetophenone	ND	0.48	0.050	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Aniline	ND	0.48	0.084	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Anthracene	ND	0.24	0.043	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Benzo(a)anthracene	ND	0.24	0.039	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Benzo(a)pyrene	ND	0.24	0.044	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Benzo(b)fluoranthene	ND	0.24	0.039	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Benzo(g,h,i)perylene	ND	0.24	0.069	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Benzo(k)fluoranthene	ND	0.24	0.044	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Bis(2-chloroethoxy)methane	ND	0.48	0.052	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Bis(2-chloroethyl)ether	ND	0.48	0.069	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Bis(2-chloroisopropyl)ether	ND	0.48	0.30	mg/Kg dry	1	V-06	SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.48	0.057	mg/Kg dry	1	L-05, V-06	SW-846 8270E	5/12/24	5/16/24 18:34	BGL
4-Bromophenylphenylether	ND	0.48	0.044	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Butylbenzylphthalate	ND	0.48	0.054	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Carbazole	ND	0.24	0.049	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
4-Chloroaniline	ND	0.94	0.085	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
4-Chloro-3-methylphenol	ND	0.94	0.050	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
2-Chloronaphthalene	ND	0.48	0.042	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
2-Chlorophenol	ND	0.48	0.048	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
4-Chlorophenylphenylether	ND	0.48	0.040	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Chrysene	ND	0.24	0.043	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Dibenz(a,h)anthracene	ND	0.24	0.067	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Dibenzofuran	ND	0.48	0.043	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Di-n-butylphthalate	ND	0.48	0.18	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
3,3-Dichlorobenzidine	ND	0.24	0.10	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
2,4-Dichlorophenol	ND	0.48	0.046	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Diethylphthalate	ND	0.48	0.047	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
2,4-Dimethylphenol	ND	0.48	0.11	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Dimethylphthalate	ND	0.48	0.046	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
4,6-Dinitro-2-methylphenol	ND	0.48	0.38	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
2,4-Dinitrophenol	ND	0.94	0.37	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
2,4-Dinitrotoluene	ND	0.48	0.049	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
2,6-Dinitrotoluene	ND	0.48	0.051	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Di-n-octylphthalate	ND	0.48	0.068	mg/Kg dry	1	V-20	SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Fluoranthene	ND	0.24	0.040	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Fluorene	ND	0.24	0.043	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Hexachlorobenzene	ND	0.48	0.047	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: DUP | Sampled: 5/8/2024 15:45

Sample ID: 24E1437-19

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.48	0.044	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Hexachlorocyclopentadiene	ND	0.48	0.32	mg/Kg dry	1	L-04, V-05	SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Hexachloroethane	ND	0.48	0.045	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Indeno(1,2,3-cd)pyrene	ND	0.24	0.078	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Isophorone	ND	0.48	0.051	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
1-Methylnaphthalene	ND	0.24	0.048	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
2-Methylnaphthalene	ND	0.24	0.041	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
2-Methylphenol	ND	0.48	0.065	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
3/4-Methylphenol	ND	0.48	0.064	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Naphthalene	ND	0.24	0.085	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
2-Nitroaniline	ND	0.48	0.059	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
3-Nitroaniline	ND	0.48	0.10	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
4-Nitroaniline	ND	0.48	0.054	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Nitrobenzene	ND	0.48	0.061	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
2-Nitrophenol	ND	0.48	0.047	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
4-Nitrophenol	ND	0.94	0.13	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	0.48	0.061	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
N-Nitrosodi-n-propylamine	ND	0.48	0.067	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Pentachlorophenol	ND	0.48	0.17	mg/Kg dry	1	V-05	SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Phenanthrene	ND	0.24	0.043	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Phenol	ND	0.48	0.061	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Pyrene	0.057	0.24	0.050	mg/Kg dry	1	J	SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Pyridine	ND	0.48	0.056	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.48	0.048	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
2,4,5-Trichlorophenol	ND	0.48	0.049	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
2,4,6-Trichlorophenol	ND	0.48	0.046	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	42.8	30-130		5/16/24 18:34
Phenol-d6	42.6	30-130		5/16/24 18:34
Nitrobenzene-d5	49.0	30-130		5/16/24 18:34
2-Fluorobiphenyl	45.5	30-130		5/16/24 18:34
2,4,6-Tribromophenol	33.5	30-130		5/16/24 18:34
p-Terphenyl-d14	59.9	30-130		5/16/24 18:34

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: DUP | Sampled: 5/8/2024 15:45

Sample ID: 24E1437-19

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.070	0.056	mg/Kg dry	1		SW-846 8270E	5/10/24	5/15/24 9:58	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	29.1	15-110		5/15/24 9:58

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: DUP | Sampled: 5/8/2024 15:45

Sample ID: 24E1437-19

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.80	0.32	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS
Perfluoropentanoic acid (PFPeA)	0.13	0.40	0.045	µg/kg dry	1	J	Draft Method 1633	5/21/24	5/28/24 20:02	AMS
Perfluorohexanoic acid (PFHxA)	0.12	0.20	0.033	µg/kg dry	1	J	Draft Method 1633	5/21/24	5/28/24 20:02	AMS
Perfluoroheptanoic acid (PFHpA)	0.14	0.20	0.014	µg/kg dry	1	J	Draft Method 1633	5/21/24	5/28/24 20:02	AMS
Perfluorooctanoic acid (PFOA)	0.40	0.20	0.031	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS
Perfluorononanoic acid (PFNA)	0.20	0.20	0.014	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS
Perfluorodecanoic acid (PFDA)	0.096	0.20	0.018	µg/kg dry	1	J	Draft Method 1633	5/21/24	5/28/24 20:02	AMS
Perfluoroundecanoic acid (PFUnA)	0.11	0.20	0.023	µg/kg dry	1	J	Draft Method 1633	5/21/24	5/28/24 20:02	AMS
Perfluorododecanoic acid (PFDoA)	0.041	0.20	0.022	µg/kg dry	1	J	Draft Method 1633	5/21/24	5/28/24 20:02	AMS
Perfluorotridecanoic acid (PFTrDA)	0.031	0.20	0.022	µg/kg dry	1	J	Draft Method 1633	5/21/24	5/28/24 20:02	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.20	0.020	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS
Perfluorobutanesulfonic acid (PFBS)	0.034	0.20	0.021	µg/kg dry	1	J	Draft Method 1633	5/21/24	5/28/24 20:02	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	0.20	0.026	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS
Perfluorohexanesulfonic acid (PFHxS)	ND	0.20	0.079	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.20	0.021	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS
Perfluorooctanesulfonic acid (PFOS)	0.55	0.20	0.032	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.20	0.022	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.20	0.032	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.20	0.031	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.80	0.070	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.80	0.50	µg/kg dry	1	B-05	Draft Method 1633	5/21/24	5/28/24 20:02	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.80	0.093	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.20	0.031	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.20	0.025	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.20	0.023	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.20	0.036	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS
N-EtFOSAA (NEtFOSAA)	ND	0.20	0.030	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	2.0	0.22	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	2.0	0.22	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.80	0.051	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.80	0.060	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS
9Cl-PF3ONS (F53B Minor)	ND	0.80	0.058	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS
11Cl-PF3OUdS (F53B Major)	ND	0.80	0.089	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	2.0	0.19	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	10	1.3	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	10	1.5	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.40	0.032	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.40	0.033	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: DUP | Sampled: 5/8/2024 15:45

Sample ID: 24E1437-19

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.40	0.033	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.40	0.060	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	84.1	10-130		5/28/24 20:02
13C5-PFPeA	84.6	35-150		5/28/24 20:02
13C5-PFHxA	83.1	55-150		5/28/24 20:02
13C4-PFHpA	85.2	55-150		5/28/24 20:02
13C8-PFOA	85.6	60-140		5/28/24 20:02
13C9-PFNA	83.5	55-140		5/28/24 20:02
13C6-PFDA	84.2	50-140		5/28/24 20:02
13C7-PFUnA	88.8	30-140		5/28/24 20:02
13C2-PFDoA	85.8	10-150		5/28/24 20:02
13C2-PFTeDA	73.7	10-130		5/28/24 20:02
13C3-PFBS	81.7	55-150		5/28/24 20:02
13C3-PFHxS	85.5	55-150		5/28/24 20:02
13C8-PFOS	80.4	45-140		5/28/24 20:02
13C2-4:2FTS	68.7	60-200		5/28/24 20:02
13C2-6:2FTS	91.3	60-200		5/28/24 20:02
13C2-8:2FTS	100	50-200		5/28/24 20:02
13C8-PFOSA	66.9	30-130		5/28/24 20:02
D3-NMeFOSA	22.2	15-130		5/28/24 20:02
D5-NEtFOSA	14.9	10-130		5/28/24 20:02
D3-NMeFOSAA	78.1	45-200		5/28/24 20:02
D5-NEtFOSAA	81.6	10-200		5/28/24 20:02
D7-NMeFOSE	39.2	10-150		5/28/24 20:02
D9-NEtFOSE	31.2	10-150		5/28/24 20:02
13C3-HFPO-DA	85.3	25-160		5/28/24 20:02

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: DUP | Sampled: 5/8/2024 15:45

Sample ID: 24E1437-19

Sample Matrix: Soil

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.071	0.033	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:41	TG
gamma-Chlordane [1]	ND	0.071	0.031	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:41	TG
Aldrin [1]	ND	0.071	0.0069	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:41	TG
alpha-BHC [1]	ND	0.071	0.033	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:41	TG
beta-BHC [1]	ND	0.071	0.038	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:41	TG
delta-BHC [1]	ND	0.071	0.037	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:41	TG
gamma-BHC (Lindane) [1]	ND	0.028	0.0098	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:41	TG
4,4'-DDD [1]	ND	0.056	0.012	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:41	TG
4,4'-DDE [1]	ND	0.056	0.0062	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:41	TG
4,4'-DDT [1]	ND	0.056	0.0073	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:41	TG
Dieldrin [1]	ND	0.056	0.0067	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:41	TG
Endosulfan I [1]	ND	0.071	0.034	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:41	TG
Endosulfan II [1]	ND	0.11	0.030	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:41	TG
Endosulfan sulfate [1]	ND	0.11	0.027	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:41	TG
Endrin [1]	ND	0.11	0.036	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:41	TG
Endrin aldehyde [1]	ND	0.11	0.028	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 18:52	TG
Endrin ketone [1]	ND	0.11	0.028	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:41	TG
Heptachlor [1]	ND	0.071	0.0078	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:41	TG
Heptachlor epoxide [1]	ND	0.071	0.0082	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:41	TG
Methoxychlor [2]	ND	0.71	0.068	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:41	TG
Toxaphene [1]	ND	1.4	0.59	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:41	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	67.0	30-150		5/14/24 15:41
Decachlorobiphenyl [1]	69.8	30-150		5/14/24 18:52
Decachlorobiphenyl [2]	70.6	30-150		5/14/24 15:41
Decachlorobiphenyl [2]	73.1	30-150		5/14/24 18:52
Tetrachloro-m-xylene [1]	69.1	30-150		5/14/24 15:41
Tetrachloro-m-xylene [1]	70.5	30-150		5/14/24 18:52
Tetrachloro-m-xylene [2]	67.6	30-150		5/14/24 15:41
Tetrachloro-m-xylene [2]	70.5	30-150		5/14/24 18:52

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: DUP | Sampled: 5/8/2024 15:45

Sample ID: 24E1437-19

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	0.028	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 20:38	SFM
Aroclor-1221 [1]	ND	0.11	0.052	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 20:38	SFM
Aroclor-1232 [1]	ND	0.11	0.028	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 20:38	SFM
Aroclor-1242 [1]	ND	0.11	0.031	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 20:38	SFM
Aroclor-1248 [1]	ND	0.11	0.027	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 20:38	SFM
Aroclor-1254 [1]	0.11	0.11	0.034	mg/Kg dry	4	J	SW-846 8082A	5/10/24	5/14/24 20:38	SFM
Aroclor-1260 [1]	ND	0.11	0.023	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 20:38	SFM
Aroclor-1262 [1]	ND	0.11	0.029	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 20:38	SFM
Aroclor-1268 [1]	ND	0.11	0.030	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 20:38	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.4	30-150		5/14/24 20:38
Decachlorobiphenyl [2]	74.0	30-150		5/14/24 20:38
Tetrachloro-m-xylene [1]	77.4	30-150		5/14/24 20:38
Tetrachloro-m-xylene [2]	80.0	30-150		5/14/24 20:38

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: DUP | Sampled: 5/8/2024 15:45

Sample ID: 24E1437-19

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	14000	24	7.5	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:38	ICP
Antimony	ND	2.4	0.63	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 20:02	NC
Arsenic	4.7	4.8	0.67	mg/Kg dry	1	J	SW-846 6010D	5/17/24	5/22/24 22:38	ICP
Barium	100	2.4	0.51	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:38	ICP
Beryllium	0.58	0.24	0.072	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:38	ICP
Cadmium	0.36	0.48	0.23	mg/Kg dry	1	J	SW-846 6010D	5/17/24	5/22/24 22:38	ICP
Calcium	4800	24	12	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:38	ICP
Chromium	19	0.95	0.60	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:38	ICP
Cobalt	9.8	2.4	0.40	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:38	ICP
Copper	39	1.9	1.7	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:38	ICP
Iron	26000	240	110	mg/Kg dry	10		SW-846 6010D	5/17/24	5/23/24 0:56	ICP
Lead	170	0.71	0.50	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:38	ICP
Magnesium	4400	24	5.5	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:38	ICP
Manganese	600	0.48	0.27	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:38	ICP
Mercury	0.064	0.034	0.015	mg/Kg dry	1		SW-846 7471B	5/21/24	5/23/24 16:00	AV
Nickel	23	0.95	0.66	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:38	ICP
Potassium	1100	2400	590	mg/Kg dry	10	D, J	SW-846 6010D	5/17/24	5/23/24 0:56	ICP
Selenium	ND	4.8	1.2	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:38	ICP
Silver	ND	0.48	0.29	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:38	ICP
Sodium	ND	240	71	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:38	ICP
Thallium	ND	2.4	0.76	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 20:02	NC
Vanadium	27	0.95	0.53	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:38	ICP
Zinc	130	0.95	0.84	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:38	ICP

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: DUP | Sampled: 5/8/2024 15:45

Sample ID: 24E1437-19

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	69.6			% Wt	1		SM 2540G	5/13/24	5/13/24 17:51	NC
Cyanide	ND	0.70	0.53	mg/Kg dry	1		SW-846 9014	5/15/24	5/16/24 12:12	DET

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Sample Extraction Data

Prep Method:Draft Method 1633 **Analytical Method:Draft Method 1633**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24E1437-02 [CG-2]	B374213	8.00	5.00	05/15/24
24E1437-04 [B1A]	B374213	6.00	5.00	05/15/24
24E1437-06 [SB1A]	B374213	6.92	5.00	05/15/24
24E1437-12 [SB4A]	B374213	6.59	5.00	05/15/24
24E1437-17 [SB7]	B374213	7.39	5.00	05/15/24

Prep Method:Draft Method 1633 **Analytical Method:Draft Method 1633**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24E1437-19RE1 [DUP]	B374779	7.19	5.00	05/21/24

Prep Method:% Solids **Analytical Method:SM 2540G**

Lab Number [Field ID]	Batch	Date
24E1437-01 [CG-1]	B374255	05/13/24
24E1437-02 [CG-2]	B374255	05/13/24
24E1437-03 [B1]	B374255	05/13/24
24E1437-04 [B1A]	B374255	05/13/24
24E1437-05 [SB1]	B374255	05/13/24
24E1437-06 [SB1A]	B374255	05/13/24
24E1437-07 [SB2]	B374255	05/13/24
24E1437-08 [SB2A]	B374255	05/13/24
24E1437-09 [SB3]	B374255	05/13/24
24E1437-10 [SB3A]	B374255	05/13/24
24E1437-11 [SB4]	B374255	05/13/24
24E1437-12 [SB4A]	B374255	05/13/24
24E1437-13 [SB5]	B374255	05/13/24
24E1437-14 [SB5A]	B374255	05/13/24
24E1437-15 [SB6]	B374255	05/13/24
24E1437-16 [SB6A]	B374255	05/13/24
24E1437-17 [SB7]	B374255	05/13/24
24E1437-18 [SB7A]	B374255	05/13/24
24E1437-19 [DUP]	B374255	05/13/24

Prep Method:SW-846 3050B **Analytical Method:SW-846 6010D**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24E1437-01 [CG-1]	B374725	1.50	50.0	05/17/24
24E1437-02 [CG-2]	B374725	1.56	50.0	05/17/24
24E1437-03 [B1]	B374725	1.54	50.0	05/17/24
24E1437-04 [B1A]	B374725	1.55	50.0	05/17/24
24E1437-05 [SB1]	B374725	1.52	50.0	05/17/24
24E1437-06 [SB1A]	B374725	1.54	50.0	05/17/24
24E1437-07 [SB2]	B374725	1.52	50.0	05/17/24
24E1437-08 [SB2A]	B374725	1.50	50.0	05/17/24
24E1437-09 [SB3]	B374725	1.55	50.0	05/17/24
24E1437-10 [SB3A]	B374725	1.52	50.0	05/17/24
24E1437-11 [SB4]	B374725	1.58	50.0	05/17/24
24E1437-12 [SB4A]	B374725	1.59	50.0	05/17/24
24E1437-13 [SB5]	B374725	1.50	50.0	05/17/24
24E1437-14 [SB5A]	B374725	1.50	50.0	05/17/24

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Sample Extraction Data

Prep Method:SW-846 3050B **Analytical Method:SW-846 6010D**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24E1437-15 [SB6]	B374725	1.58	50.0	05/17/24
24E1437-16 [SB6A]	B374725	1.58	50.0	05/17/24
24E1437-17 [SB7]	B374725	1.56	50.0	05/17/24
24E1437-18 [SB7A]	B374725	1.55	50.0	05/17/24
24E1437-19 [DUP]	B374725	1.51	50.0	05/17/24

Prep Method:SW-846 7471 **Analytical Method:SW-846 7471B**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24E1437-01 [CG-1]	B375006	0.658	50.0	05/21/24
24E1437-02 [CG-2]	B375006	0.609	50.0	05/21/24
24E1437-03 [B1]	B375006	0.614	50.0	05/21/24
24E1437-04 [B1A]	B375006	0.608	50.0	05/21/24
24E1437-05 [SB1]	B375006	0.629	50.0	05/21/24
24E1437-06 [SB1A]	B375006	0.629	50.0	05/21/24
24E1437-07 [SB2]	B375006	0.616	50.0	05/21/24
24E1437-08 [SB2A]	B375006	0.652	50.0	05/21/24
24E1437-09 [SB3]	B375006	0.605	50.0	05/21/24
24E1437-10 [SB3A]	B375006	0.661	50.0	05/21/24
24E1437-11 [SB4]	B375006	0.674	50.0	05/21/24
24E1437-12 [SB4A]	B375006	0.630	50.0	05/21/24
24E1437-13 [SB5]	B375006	0.613	50.0	05/21/24
24E1437-14 [SB5A]	B375006	0.624	50.0	05/21/24
24E1437-15 [SB6]	B375006	0.656	50.0	05/21/24
24E1437-16 [SB6A]	B375006	0.615	50.0	05/21/24
24E1437-17 [SB7]	B375006	0.659	50.0	05/21/24
24E1437-18 [SB7A]	B375006	0.606	50.0	05/21/24
24E1437-19 [DUP]	B375006	0.635	50.0	05/21/24

Prep Method:SW-846 3546 **Analytical Method:SW-846 8081B**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24E1437-02 [CG-2]	B374053	10.7	10.0	05/10/24
24E1437-02RE1 [CG-2]	B374053	10.7	10.0	05/10/24
24E1437-04 [B1A]	B374053	10.7	10.0	05/10/24
24E1437-04RE1 [B1A]	B374053	10.7	10.0	05/10/24
24E1437-06 [SB1A]	B374053	10.4	10.0	05/10/24
24E1437-06RE1 [SB1A]	B374053	10.4	10.0	05/10/24
24E1437-12 [SB4A]	B374053	10.4	10.0	05/10/24
24E1437-12RE1 [SB4A]	B374053	10.4	10.0	05/10/24
24E1437-17 [SB7]	B374053	10.5	10.0	05/10/24
24E1437-17RE1 [SB7]	B374053	10.5	10.0	05/10/24
24E1437-19 [DUP]	B374053	10.2	10.0	05/10/24
24E1437-19RE1 [DUP]	B374053	10.2	10.0	05/10/24

Prep Method:SW-846 3546 **Analytical Method:SW-846 8082A**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24E1437-02 [CG-2]	B374045	10.7	10.0	05/10/24
24E1437-04 [B1A]	B374045	10.7	10.0	05/10/24
24E1437-06 [SB1A]	B374045	10.6	10.0	05/10/24

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Sample Extraction Data

Prep Method:SW-846 3546 **Analytical Method:SW-846 8082A**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24E1437-12 [SB4A]	B374045	10.4	10.0	05/10/24
24E1437-17 [SB7]	B374045	10.5	10.0	05/10/24
24E1437-19 [DUP]	B374045	10.2	10.0	05/10/24

Prep Method:SW-846 5035 **Analytical Method:SW-846 8260D**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24E1437-02 [CG-2]	B374129	5.14	10.0	05/13/24
24E1437-04 [B1A]	B374129	3.80	10.0	05/13/24
24E1437-06 [SB1A]	B374129	5.49	10.0	05/13/24
24E1437-12 [SB4A]	B374129	5.97	10.0	05/13/24
24E1437-17 [SB7]	B374129	4.78	10.0	05/13/24
24E1437-19 [DUP]	B374129	5.09	10.0	05/13/24

Prep Method:SW-846 3546 **Analytical Method:SW-846 8270E**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24E1437-02 [CG-2]	B374074	20.5	1.00	05/10/24
24E1437-04 [B1A]	B374074	20.8	1.00	05/10/24
24E1437-06 [SB1A]	B374074	20.2	1.00	05/10/24
24E1437-12 [SB4A]	B374074	20.0	1.00	05/10/24
24E1437-17 [SB7]	B374074	20.8	1.00	05/10/24
24E1437-19 [DUP]	B374074	20.4	1.00	05/10/24

Prep Method:SW-846 3546 **Analytical Method:SW-846 8270E**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24E1437-02 [CG-2]	B374087	30.6	1.00	05/12/24
24E1437-04 [B1A]	B374087	30.4	1.00	05/12/24
24E1437-06 [SB1A]	B374087	30.0	1.00	05/12/24
24E1437-12 [SB4A]	B374087	30.6	1.00	05/12/24
24E1437-17 [SB7]	B374087	30.4	1.00	05/12/24
24E1437-19 [DUP]	B374087	30.3	1.00	05/12/24

Prep Method:SW-846 9010C **Analytical Method:SW-846 9014**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24E1437-02 [CG-2]	B374146	1.01	50.0	05/13/24
24E1437-06 [SB1A]	B374146	1.08	50.0	05/13/24

Prep Method:SW-846 9010C **Analytical Method:SW-846 9014**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24E1437-04 [B1A]	B374399	1.07	50.0	05/15/24
24E1437-12 [SB4A]	B374399	1.09	50.0	05/15/24
24E1437-17 [SB7]	B374399	1.10	50.0	05/15/24
24E1437-19 [DUP]	B374399	1.03	50.0	05/15/24

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B374129 - SW-846 5035										
Blank (B374129-BLK1)				Prepared & Analyzed: 05/13/24						
Acetone	ND	0.10	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
Carbon Disulfide	ND	0.020	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
Cyclohexane	ND	0.010	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							V-05
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl Acetate	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methyl Cyclohexane	ND	0.0020	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B374129 - SW-846 5035												
Blank (B374129-BLK1)				Prepared & Analyzed: 05/13/24								
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet									
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet									
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet									
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet									
Vinyl Chloride	ND	0.010	mg/Kg wet									
m+p Xylene	ND	0.0040	mg/Kg wet									
o-Xylene	ND	0.0020	mg/Kg wet									
Xylenes (total)	ND	0.0020	mg/Kg wet									
Surrogate: 1,2-Dichloroethane-d4	*0.0514*		mg/Kg wet	0.0500		103		70-130				
Surrogate: Toluene-d8	*0.0469*		mg/Kg wet	0.0500		93.8		70-130				
Surrogate: 4-Bromofluorobenzene	*0.0424*		mg/Kg wet	0.0500		84.7		70-130				
LCS (B374129-BS1)				Prepared & Analyzed: 05/13/24								
Acetone	0.202	0.10	mg/Kg wet	0.200		101		70-160			V-35	†
Benzene	0.0194	0.0020	mg/Kg wet	0.0200		96.8		70-130				
Bromochloromethane	0.0202	0.0020	mg/Kg wet	0.0200		101		70-130				
Bromodichloromethane	0.0197	0.0020	mg/Kg wet	0.0200		98.5		70-130				
Bromoform	0.0155	0.0020	mg/Kg wet	0.0200		77.5		70-130				
Bromomethane	0.0166	0.010	mg/Kg wet	0.0200		83.1		40-130				†
2-Butanone (MEK)	0.215	0.040	mg/Kg wet	0.200		107		70-160				†
n-Butylbenzene	0.0216	0.0020	mg/Kg wet	0.0200		108		70-130				
sec-Butylbenzene	0.0216	0.0020	mg/Kg wet	0.0200		108		70-130				
tert-Butylbenzene	0.0213	0.0020	mg/Kg wet	0.0200		106		70-160				†
Carbon Disulfide	0.173	0.020	mg/Kg wet	0.200		86.5		70-130				
Carbon Tetrachloride	0.0178	0.0020	mg/Kg wet	0.0200		89.2		70-130				
Chlorobenzene	0.0169	0.0020	mg/Kg wet	0.0200		84.4		70-130				
Chlorodibromomethane	0.0197	0.0010	mg/Kg wet	0.0200		98.3		70-130				
Chloroethane	0.0193	0.020	mg/Kg wet	0.0200		96.5		70-130			J	
Chloroform	0.0193	0.0040	mg/Kg wet	0.0200		96.7		70-130				
Chloromethane	0.0304	0.010	mg/Kg wet	0.0200		**152**	*	70-130			L-02, V-20	
Cyclohexane	0.0187	0.010	mg/Kg wet	0.0200		93.6		70-130				
1,2-Dibromo-3-chloropropane (DBCP)	0.0184	0.0020	mg/Kg wet	0.0200		92.2		70-130				
1,2-Dibromoethane (EDB)	0.0222	0.0010	mg/Kg wet	0.0200		111		70-130				
1,2-Dichlorobenzene	0.0223	0.0020	mg/Kg wet	0.0200		112		70-130				
1,3-Dichlorobenzene	0.0220	0.0020	mg/Kg wet	0.0200		110		70-130				
1,4-Dichlorobenzene	0.0221	0.0020	mg/Kg wet	0.0200		110		70-130				
Dichlorodifluoromethane (Freon 12)	0.0140	0.020	mg/Kg wet	0.0200		70.2		40-160			V-05, V-36, J	†
1,1-Dichloroethane	0.0194	0.0020	mg/Kg wet	0.0200		97.2		70-130				
1,2-Dichloroethane	0.0214	0.0020	mg/Kg wet	0.0200		107		70-130				
1,1-Dichloroethylene	0.0204	0.0040	mg/Kg wet	0.0200		102		70-130				
cis-1,2-Dichloroethylene	0.0189	0.0020	mg/Kg wet	0.0200		94.6		70-130				
trans-1,2-Dichloroethylene	0.0191	0.0020	mg/Kg wet	0.0200		95.3		70-130				
1,2-Dichloropropane	0.0208	0.0020	mg/Kg wet	0.0200		104		70-130				
cis-1,3-Dichloropropene	0.0203	0.0010	mg/Kg wet	0.0200		101		70-130				
trans-1,3-Dichloropropene	0.0199	0.0010	mg/Kg wet	0.0200		99.5		70-130				
Ethylbenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.3		70-130				
2-Hexanone (MBK)	0.244	0.020	mg/Kg wet	0.200		122		70-160				†
Isopropylbenzene (Cumene)	0.0197	0.0020	mg/Kg wet	0.0200		98.4		70-130				
p-Isopropyltoluene (p-Cymene)	0.0222	0.0020	mg/Kg wet	0.0200		111		70-130				
Methyl Acetate	0.0219	0.0020	mg/Kg wet	0.0200		110		70-130				
Methyl tert-Butyl Ether (MTBE)	0.0199	0.0040	mg/Kg wet	0.0200		99.5		70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B374129 - SW-846 5035												
LCS (B374129-BS1)				Prepared & Analyzed: 05/13/24								
Methyl Cyclohexane	0.0204	0.0020	mg/Kg wet	0.0200		102		70-130				
Methylene Chloride	0.0196	0.020	mg/Kg wet	0.0200		97.9		40-160			J	†
4-Methyl-2-pentanone (MIBK)	0.251	0.020	mg/Kg wet	0.200		125		70-160			V-20	†
Naphthalene	0.0231	0.0040	mg/Kg wet	0.0200		116		40-130				†
n-Propylbenzene	0.0205	0.0020	mg/Kg wet	0.0200		102		70-130				
Styrene	0.0194	0.0020	mg/Kg wet	0.0200		97.0		70-130				
1,1,2,2-Tetrachloroethane	0.0192	0.0010	mg/Kg wet	0.0200		96.0		70-130				
Tetrachloroethylene	0.0219	0.0020	mg/Kg wet	0.0200		110		70-130				
Toluene	0.0211	0.0020	mg/Kg wet	0.0200		106		70-130				
1,2,3-Trichlorobenzene	0.0222	0.0020	mg/Kg wet	0.0200		111		70-130				
1,2,4-Trichlorobenzene	0.0219	0.0020	mg/Kg wet	0.0200		109		70-130				
1,1,1-Trichloroethane	0.0190	0.0020	mg/Kg wet	0.0200		95.0		70-130				
1,1,2-Trichloroethane	0.0220	0.0020	mg/Kg wet	0.0200		110		70-130				
Trichloroethylene	0.0204	0.0020	mg/Kg wet	0.0200		102		70-130				
Trichlorofluoromethane (Freon 11)	0.0210	0.010	mg/Kg wet	0.0200		105		70-130				
1,2,3-Trichloropropane	0.0214	0.0020	mg/Kg wet	0.0200		107		70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0204	0.010	mg/Kg wet	0.0200		102		70-130				
1,2,4-Trimethylbenzene	0.0209	0.0020	mg/Kg wet	0.0200		105		70-130				
1,3,5-Trimethylbenzene	0.0192	0.0020	mg/Kg wet	0.0200		95.8		70-130				
Vinyl Chloride	0.0181	0.010	mg/Kg wet	0.0200		90.4		40-130				†
m+p Xylene	0.0399	0.0040	mg/Kg wet	0.0400		99.6		70-130				
o-Xylene	0.0189	0.0020	mg/Kg wet	0.0200		94.4		70-130				
Surrogate: 1,2-Dichloroethane-d4	*0.0467*		mg/Kg wet	0.0500		93.4		70-130				
Surrogate: Toluene-d8	*0.0476*		mg/Kg wet	0.0500		95.2		70-130				
Surrogate: 4-Bromofluorobenzene	*0.0416*		mg/Kg wet	0.0500		83.2		70-130				
LCS Dup (B374129-BSD1)				Prepared & Analyzed: 05/13/24								
Acetone	0.210	0.10	mg/Kg wet	0.200		105		70-160	3.63	25	V-35	†
Benzene	0.0194	0.0020	mg/Kg wet	0.0200		97.1		70-130	0.309	25		
Bromochloromethane	0.0205	0.0020	mg/Kg wet	0.0200		103		70-130	1.57	25		
Bromodichloromethane	0.0194	0.0020	mg/Kg wet	0.0200		97.2		70-130	1.33	25		
Bromoform	0.0152	0.0020	mg/Kg wet	0.0200		75.8		70-130	2.22	25		
Bromomethane	0.0178	0.010	mg/Kg wet	0.0200		88.9		40-130	6.74	25		†
2-Butanone (MEK)	0.218	0.040	mg/Kg wet	0.200		109		70-160	1.56	25		†
n-Butylbenzene	0.0210	0.0020	mg/Kg wet	0.0200		105		70-130	2.91	25		
sec-Butylbenzene	0.0211	0.0020	mg/Kg wet	0.0200		106		70-130	2.15	25		
tert-Butylbenzene	0.0210	0.0020	mg/Kg wet	0.0200		105		70-160	1.04	25		†
Carbon Disulfide	0.173	0.020	mg/Kg wet	0.200		86.3		70-130	0.220	25		
Carbon Tetrachloride	0.0176	0.0020	mg/Kg wet	0.0200		88.2		70-130	1.13	25		
Chlorobenzene	0.0172	0.0020	mg/Kg wet	0.0200		85.9		70-130	1.76	25		
Chlorodibromomethane	0.0192	0.0010	mg/Kg wet	0.0200		96.2		70-130	2.16	25		
Chloroethane	0.0194	0.020	mg/Kg wet	0.0200		97.1		70-130	0.620	25	J	
Chloroform	0.0198	0.0040	mg/Kg wet	0.0200		98.8		70-130	2.15	25		
Chloromethane	0.0279	0.010	mg/Kg wet	0.0200		**140**	*	70-130	8.64	25	L-02, V-20	
Cyclohexane	0.0190	0.010	mg/Kg wet	0.0200		94.9		70-130	1.38	25		
1,2-Dibromo-3-chloropropane (DBCP)	0.0181	0.0020	mg/Kg wet	0.0200		90.3		70-130	2.08	25		
1,2-Dibromoethane (EDB)	0.0220	0.0010	mg/Kg wet	0.0200		110		70-130	1.27	25		
1,2-Dichlorobenzene	0.0221	0.0020	mg/Kg wet	0.0200		110		70-130	0.991	25		
1,3-Dichlorobenzene	0.0219	0.0020	mg/Kg wet	0.0200		109		70-130	0.547	25		
1,4-Dichlorobenzene	0.0219	0.0020	mg/Kg wet	0.0200		110		70-130	0.545	25		
Dichlorodifluoromethane (Freon 12)	0.0140	0.020	mg/Kg wet	0.0200		70.2		40-160	0.00	25	V-05, V-36, J	†
1,1-Dichloroethane	0.0198	0.0020	mg/Kg wet	0.0200		98.9		70-130	1.73	25		

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B374129 - SW-846 5035												
LCS Dup (B374129-BSD1)				Prepared & Analyzed: 05/13/24								
1,2-Dichloroethane	0.0211	0.0020	mg/Kg wet	0.0200		105		70-130	1.79	25		
1,1-Dichloroethylene	0.0202	0.0040	mg/Kg wet	0.0200		101		70-130	0.983	25		
cis-1,2-Dichloroethylene	0.0196	0.0020	mg/Kg wet	0.0200		98.1		70-130	3.63	25		
trans-1,2-Dichloroethylene	0.0189	0.0020	mg/Kg wet	0.0200		94.3		70-130	1.05	25		
1,2-Dichloropropane	0.0202	0.0020	mg/Kg wet	0.0200		101		70-130	2.73	25		
cis-1,3-Dichloropropene	0.0198	0.0010	mg/Kg wet	0.0200		99.2		70-130	2.19	25		
trans-1,3-Dichloropropene	0.0192	0.0010	mg/Kg wet	0.0200		96.2		70-130	3.37	25		
Ethylbenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.5		70-130	0.826	25		
2-Hexanone (MBK)	0.242	0.020	mg/Kg wet	0.200		121		70-160	0.996	25		†
Isopropylbenzene (Cumene)	0.0195	0.0020	mg/Kg wet	0.0200		97.5		70-130	0.919	25		
p-Isopropyltoluene (p-Cymene)	0.0217	0.0020	mg/Kg wet	0.0200		109		70-130	2.10	25		
Methyl Acetate	0.0227	0.0020	mg/Kg wet	0.0200		114		70-130	3.49	25		
Methyl tert-Butyl Ether (MTBE)	0.0202	0.0040	mg/Kg wet	0.0200		101		70-130	1.50	25		
Methyl Cyclohexane	0.0198	0.0020	mg/Kg wet	0.0200		98.9		70-130	2.99	25		
Methylene Chloride	0.0198	0.020	mg/Kg wet	0.0200		99.0		40-160	1.12	25	J	†
4-Methyl-2-pentanone (MIBK)	0.247	0.020	mg/Kg wet	0.200		124		70-160	1.46	25	V-20	†
Naphthalene	0.0228	0.0040	mg/Kg wet	0.0200		114		40-130	1.39	25		†
n-Propylbenzene	0.0202	0.0020	mg/Kg wet	0.0200		101		70-130	1.28	25		
Styrene	0.0193	0.0020	mg/Kg wet	0.0200		96.3		70-130	0.724	25		
1,1,2,2-Tetrachloroethane	0.0193	0.0010	mg/Kg wet	0.0200		96.7		70-130	0.727	25		
Tetrachloroethylene	0.0214	0.0020	mg/Kg wet	0.0200		107		70-130	2.68	25		
Toluene	0.0208	0.0020	mg/Kg wet	0.0200		104		70-130	1.62	25		
1,2,3-Trichlorobenzene	0.0219	0.0020	mg/Kg wet	0.0200		110		70-130	1.36	25		
1,2,4-Trichlorobenzene	0.0214	0.0020	mg/Kg wet	0.0200		107		70-130	2.13	25		
1,1,1-Trichloroethane	0.0189	0.0020	mg/Kg wet	0.0200		94.6		70-130	0.422	25		
1,1,2-Trichloroethane	0.0215	0.0020	mg/Kg wet	0.0200		107		70-130	2.39	25		
Trichloroethylene	0.0201	0.0020	mg/Kg wet	0.0200		101		70-130	1.58	25		
Trichlorofluoromethane (Freon 11)	0.0203	0.010	mg/Kg wet	0.0200		102		70-130	3.39	25		
1,2,3-Trichloropropane	0.0208	0.0020	mg/Kg wet	0.0200		104		70-130	2.94	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0202	0.010	mg/Kg wet	0.0200		101		70-130	0.886	25		
1,2,4-Trimethylbenzene	0.0208	0.0020	mg/Kg wet	0.0200		104		70-130	0.767	25		
1,3,5-Trimethylbenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.4		70-130	1.47	25		
Vinyl Chloride	0.0185	0.010	mg/Kg wet	0.0200		92.3		40-130	2.08	25		†
m+p Xylene	0.0399	0.0040	mg/Kg wet	0.0400		99.7		70-130	0.0502	25		
o-Xylene	0.0187	0.0020	mg/Kg wet	0.0200		93.4		70-130	1.06	25		
Surrogate: 1,2-Dichloroethane-d4	*0.0476*		mg/Kg wet	0.0500		95.2		70-130				
Surrogate: Toluene-d8	*0.0472*		mg/Kg wet	0.0500		94.4		70-130				
Surrogate: 4-Bromofluorobenzene	*0.0421*		mg/Kg wet	0.0500		84.2		70-130				
Matrix Spike (B374129-MS1)		**Source: 24E1437-06**		Prepared & Analyzed: 05/13/24								
Acetone	0.247	0.12	mg/Kg dry	0.239	ND	104		70-130			V-35	
Benzene	0.0257	0.0024	mg/Kg dry	0.0239	ND	108		70-130				
Bromochloromethane	0.0268	0.0024	mg/Kg dry	0.0239	ND	112		70-130				
Bromodichloromethane	0.0228	0.0024	mg/Kg dry	0.0239	ND	95.5		70-130				
Bromoform	0.0183	0.0024	mg/Kg dry	0.0239	ND	76.7		70-130				
Bromomethane	0.00608	0.012	mg/Kg dry	0.0239	ND	**25.5**	*	70-130			MS-07A, J	
2-Butanone (MEK)	0.249	0.048	mg/Kg dry	0.239	ND	104		70-130				
n-Butylbenzene	0.0277	0.0024	mg/Kg dry	0.0239	ND	116		70-130				
sec-Butylbenzene	0.0309	0.0024	mg/Kg dry	0.0239	ND	130		70-130				
tert-Butylbenzene	0.0287	0.0024	mg/Kg dry	0.0239	ND	120		70-130				
Carbon Disulfide	0.0413	0.024	mg/Kg dry	0.0239	ND	**173**	*	70-130			MS-15	
Carbon Tetrachloride	0.0247	0.0024	mg/Kg dry	0.0239	ND	104		70-130				

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B374129 - SW-846 5035											
Matrix Spike (B374129-MS1)		**Source: 24E1437-06**		Prepared & Analyzed: 05/13/24							
Chlorobenzene	0.0214	0.0024	mg/Kg dry	0.0239	ND	89.8		70-130			
Chlorodibromomethane	0.0225	0.0012	mg/Kg dry	0.0239	ND	94.2		70-130			
Chloroethane	0.0316	0.024	mg/Kg dry	0.0239	ND	**132**	*	70-130			MS-24
Chloroform	0.0259	0.0048	mg/Kg dry	0.0239	ND	109		70-130			
Chloromethane	0.0358	0.012	mg/Kg dry	0.0239	ND	**150**	*	70-130			L-02, MS-15, V-20
Cyclohexane	0.0270	0.012	mg/Kg dry	0.0239	ND	113		70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0206	0.0024	mg/Kg dry	0.0239	ND	86.3		70-130			
1,2-Dibromoethane (EDB)	0.0260	0.0012	mg/Kg dry	0.0239	ND	109		70-130			
1,2-Dichlorobenzene	0.0291	0.0024	mg/Kg dry	0.0239	ND	122		70-130			
1,3-Dichlorobenzene	0.0289	0.0024	mg/Kg dry	0.0239	ND	121		70-130			
1,4-Dichlorobenzene	0.0286	0.0024	mg/Kg dry	0.0239	ND	120		70-130			
Dichlorodifluoromethane (Freon 12)	0.0356	0.024	mg/Kg dry	0.0239	ND	**149**	*	70-130			MS-15, V-05, V-36
1,1-Dichloroethane	0.0279	0.0024	mg/Kg dry	0.0239	ND	117		70-130			
1,2-Dichloroethane	0.0253	0.0024	mg/Kg dry	0.0239	ND	106		70-130			
1,1-Dichloroethylene	0.0254	0.0048	mg/Kg dry	0.0239	ND	106		70-130			
cis-1,2-Dichloroethylene	0.0266	0.0024	mg/Kg dry	0.0239	ND	112		70-130			
trans-1,2-Dichloroethylene	0.0270	0.0024	mg/Kg dry	0.0239	ND	113		70-130			
1,2-Dichloropropane	0.0245	0.0024	mg/Kg dry	0.0239	ND	103		70-130			
cis-1,3-Dichloropropene	0.0223	0.0012	mg/Kg dry	0.0239	ND	93.5		70-130			
trans-1,3-Dichloropropene	0.0233	0.0012	mg/Kg dry	0.0239	ND	97.5		70-130			
Ethylbenzene	0.0242	0.0024	mg/Kg dry	0.0239	ND	101		70-130			
2-Hexanone (MBK)	0.251	0.024	mg/Kg dry	0.239	ND	105		70-130			
Isopropylbenzene (Cumene)	0.0256	0.0024	mg/Kg dry	0.0239	ND	107		70-130			
p-Isopropyltoluene (p-Cymene)	0.0306	0.0024	mg/Kg dry	0.0239	ND	128		70-130			
Methyl Acetate	0.0372	0.0024	mg/Kg dry	0.0239	ND	**156**	*	70-130			MS-15
Methyl tert-Butyl Ether (MTBE)	0.0246	0.0048	mg/Kg dry	0.0239	ND	103		70-130			
Methyl Cyclohexane	0.0262	0.0024	mg/Kg dry	0.0239	ND	110		70-130			
Methylene Chloride	0.0264	0.024	mg/Kg dry	0.0239	ND	111		70-130			
4-Methyl-2-pentanone (MIBK)	0.279	0.024	mg/Kg dry	0.239	ND	117		70-130			V-20
Naphthalene	0.0262	0.0048	mg/Kg dry	0.0239	ND	110		70-130			
n-Propylbenzene	0.0266	0.0024	mg/Kg dry	0.0239	ND	112		70-130			
Styrene	0.0242	0.0024	mg/Kg dry	0.0239	ND	101		70-130			
1,1,2,2-Tetrachloroethane	0.0241	0.0012	mg/Kg dry	0.0239	ND	101		70-130			
Tetrachloroethylene	0.0276	0.0024	mg/Kg dry	0.0239	ND	116		70-130			
Toluene	0.0252	0.0024	mg/Kg dry	0.0239	ND	106		70-130			
1,2,3-Trichlorobenzene	0.0269	0.0024	mg/Kg dry	0.0239	ND	113		70-130			
1,2,4-Trichlorobenzene	0.0268	0.0024	mg/Kg dry	0.0239	ND	112		70-130			
1,1,1-Trichloroethane	0.0259	0.0024	mg/Kg dry	0.0239	ND	109		70-130			
1,1,2-Trichloroethane	0.0271	0.0024	mg/Kg dry	0.0239	ND	114		70-130			
Trichloroethylene	0.0255	0.0024	mg/Kg dry	0.0239	ND	107		70-130			
Trichlorofluoromethane (Freon 11)	0.0324	0.012	mg/Kg dry	0.0239	ND	**136**	*	70-130			MS-24
1,2,3-Trichloropropane	0.0235	0.0024	mg/Kg dry	0.0239	ND	98.4		70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0278	0.012	mg/Kg dry	0.0239	ND	117		70-130			
1,2,4-Trimethylbenzene	0.0261	0.0024	mg/Kg dry	0.0239	ND	109		70-130			
1,3,5-Trimethylbenzene	0.0241	0.0024	mg/Kg dry	0.0239	ND	101		70-130			
Vinyl Chloride	0.0300	0.012	mg/Kg dry	0.0239	ND	126		70-130			
m+p Xylene	0.0498	0.0048	mg/Kg dry	0.0477	ND	104		70-130			
o-Xylene	0.0243	0.0024	mg/Kg dry	0.0239	ND	102		70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0625*		mg/Kg dry	0.0596		105		70-130			
Surrogate: Toluene-d8	*0.0562*		mg/Kg dry	0.0596		94.2		70-130			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B374129 - SW-846 5035											
Matrix Spike (B374129-MS1)		**Source: 24E1437-06**		Prepared & Analyzed: 05/13/24							
Surrogate: 4-Bromofluorobenzene	*0.0491*		mg/Kg dry	0.0596		82.3		70-130			
Matrix Spike Dup (B374129-MSD1)		**Source: 24E1437-06**		Prepared & Analyzed: 05/13/24							
Acetone	0.226	0.11	mg/Kg dry	0.216	ND	105		70-130	8.86	30	V-35
Benzene	0.0222	0.0022	mg/Kg dry	0.0216	ND	102		70-130	14.8	30	
Bromochloromethane	0.0232	0.0022	mg/Kg dry	0.0216	ND	107		70-130	14.4	30	
Bromodichloromethane	0.0207	0.0022	mg/Kg dry	0.0216	ND	95.8		70-130	9.40	30	
Bromoform	0.0166	0.0022	mg/Kg dry	0.0216	ND	76.8		70-130	9.58	30	
Bromomethane	0.00667	0.011	mg/Kg dry	0.0216	ND	**30.8**	*	70-130	9.16	30	MS-07A, J
2-Butanone (MEK)	0.229	0.043	mg/Kg dry	0.216	ND	106		70-130	8.52	30	
n-Butylbenzene	0.0250	0.0022	mg/Kg dry	0.0216	ND	115		70-130	10.2	30	
sec-Butylbenzene	0.0274	0.0022	mg/Kg dry	0.0216	ND	127		70-130	11.9	30	
tert-Butylbenzene	0.0253	0.0022	mg/Kg dry	0.0216	ND	117		70-130	12.7	30	
Carbon Disulfide	0.0371	0.022	mg/Kg dry	0.0216	ND	**171**	*	70-130	10.9	30	MS-15
Carbon Tetrachloride	0.0212	0.0022	mg/Kg dry	0.0216	ND	97.7		70-130	15.5	30	
Chlorobenzene	0.0185	0.0022	mg/Kg dry	0.0216	ND	85.4		70-130	14.7	30	
Chlorodibromomethane	0.0207	0.0011	mg/Kg dry	0.0216	ND	95.6		70-130	8.24	30	
Chloroethane	0.0258	0.022	mg/Kg dry	0.0216	ND	119		70-130	20.2	30	
Chloroform	0.0227	0.0043	mg/Kg dry	0.0216	ND	105		70-130	13.4	30	
Chloromethane	0.0308	0.011	mg/Kg dry	0.0216	ND	**142**	*	70-130	14.8	30	L-02, MS-15, V-20
Cyclohexane	0.0236	0.011	mg/Kg dry	0.0216	ND	109		70-130	13.6	30	
1,2-Dibromo-3-chloropropane (DBCP)	0.0189	0.0022	mg/Kg dry	0.0216	ND	87.2		70-130	8.68	30	
1,2-Dibromoethane (EDB)	0.0238	0.0011	mg/Kg dry	0.0216	ND	110		70-130	8.98	30	
1,2-Dichlorobenzene	0.0259	0.0022	mg/Kg dry	0.0216	ND	120		70-130	11.4	30	
1,3-Dichlorobenzene	0.0252	0.0022	mg/Kg dry	0.0216	ND	117		70-130	13.7	30	
1,4-Dichlorobenzene	0.0253	0.0022	mg/Kg dry	0.0216	ND	117		70-130	12.1	30	
Dichlorodifluoromethane (Freon 12)	0.0301	0.022	mg/Kg dry	0.0216	ND	**139**	*	70-130	16.8	30	MS-15, V-05, V-36
1,1-Dichloroethane	0.0241	0.0022	mg/Kg dry	0.0216	ND	111		70-130	14.8	30	
1,2-Dichloroethane	0.0228	0.0022	mg/Kg dry	0.0216	ND	105		70-130	10.7	30	
1,1-Dichloroethylene	0.0215	0.0043	mg/Kg dry	0.0216	ND	99.5		70-130	16.4	30	
cis-1,2-Dichloroethylene	0.0234	0.0022	mg/Kg dry	0.0216	ND	108		70-130	13.0	30	
trans-1,2-Dichloroethylene	0.0233	0.0022	mg/Kg dry	0.0216	ND	107		70-130	14.9	30	
1,2-Dichloropropane	0.0224	0.0022	mg/Kg dry	0.0216	ND	104		70-130	8.84	30	
cis-1,3-Dichloropropene	0.0202	0.0011	mg/Kg dry	0.0216	ND	93.2		70-130	10.0	30	
trans-1,3-Dichloropropene	0.0214	0.0011	mg/Kg dry	0.0216	ND	98.9		70-130	8.29	30	
Ethylbenzene	0.0215	0.0022	mg/Kg dry	0.0216	ND	99.3		70-130	11.8	30	
2-Hexanone (MBK)	0.236	0.022	mg/Kg dry	0.216	ND	109		70-130	6.06	30	
Isopropylbenzene (Cumene)	0.0225	0.0022	mg/Kg dry	0.0216	ND	104		70-130	12.8	30	
p-Isopropyltoluene (p-Cymene)	0.0273	0.0022	mg/Kg dry	0.0216	ND	126		70-130	11.5	30	
Methyl Acetate	0.0336	0.0022	mg/Kg dry	0.0216	ND	**155**	*	70-130	10.0	30	MS-15
Methyl tert-Butyl Ether (MTBE)	0.0220	0.0043	mg/Kg dry	0.0216	ND	102		70-130	11.0	30	
Methyl Cyclohexane	0.0236	0.0022	mg/Kg dry	0.0216	ND	109		70-130	10.8	30	
Methylene Chloride	0.0217	0.022	mg/Kg dry	0.0216	ND	100		70-130	19.8	30	
4-Methyl-2-pentanone (MIBK)	0.260	0.022	mg/Kg dry	0.216	ND	120		70-130	6.96	30	V-20
Naphthalene	0.0234	0.0043	mg/Kg dry	0.0216	ND	108		70-130	11.3	30	
n-Propylbenzene	0.0237	0.0022	mg/Kg dry	0.0216	ND	109		70-130	11.7	30	
Styrene	0.0213	0.0022	mg/Kg dry	0.0216	ND	98.6		70-130	12.4	30	
1,1,2,2-Tetrachloroethane	0.0215	0.0011	mg/Kg dry	0.0216	ND	99.5		70-130	11.2	30	
Tetrachloroethylene	0.0246	0.0022	mg/Kg dry	0.0216	ND	114		70-130	11.6	30	
Toluene	0.0225	0.0022	mg/Kg dry	0.0216	ND	104		70-130	11.2	30	
1,2,3-Trichlorobenzene	0.0237	0.0022	mg/Kg dry	0.0216	ND	109		70-130	12.8	30	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B374129 - SW-846 5035										
Matrix Spike Dup (B374129-MSD1)	**Source: 24E1437-06**			Prepared & Analyzed: 05/13/24						
1,2,4-Trichlorobenzene	0.0240	0.0022	mg/Kg dry	0.0216	ND	111	70-130	10.8	30	
1,1,1-Trichloroethane	0.0226	0.0022	mg/Kg dry	0.0216	ND	104	70-130	13.7	30	
1,1,2-Trichloroethane	0.0244	0.0022	mg/Kg dry	0.0216	ND	113	70-130	10.5	30	
Trichloroethylene	0.0227	0.0022	mg/Kg dry	0.0216	ND	105	70-130	11.7	30	
Trichlorofluoromethane (Freon 11)	0.0278	0.011	mg/Kg dry	0.0216	ND	128	70-130	15.2	30	
1,2,3-Trichloropropane	0.0213	0.0022	mg/Kg dry	0.0216	ND	98.6	70-130	9.51	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0239	0.011	mg/Kg dry	0.0216	ND	110	70-130	15.3	30	
1,2,4-Trimethylbenzene	0.0230	0.0022	mg/Kg dry	0.0216	ND	106	70-130	12.4	30	
1,3,5-Trimethylbenzene	0.0213	0.0022	mg/Kg dry	0.0216	ND	98.2	70-130	12.7	30	
Vinyl Chloride	0.0263	0.011	mg/Kg dry	0.0216	ND	122	70-130	13.1	30	
m+p Xylene	0.0439	0.0043	mg/Kg dry	0.0433	ND	101	70-130	12.6	30	
o-Xylene	0.0214	0.0022	mg/Kg dry	0.0216	ND	98.8	70-130	12.9	30	
Surrogate: 1,2-Dichloroethane-d4	*0.0554*		mg/Kg dry	0.0541		102	70-130			
Surrogate: Toluene-d8	*0.0517*		mg/Kg dry	0.0541		95.5	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0441*		mg/Kg dry	0.0541		81.5	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B374087 - SW-846 3546										
Blank (B374087-BLK1)				Prepared: 05/12/24 Analyzed: 05/15/24						
2,3,4,6-Tetrachlorophenol	ND	0.65	mg/Kg wet							
Atrazine	ND	0.65	mg/Kg wet							
Benzaldehyde	ND	0.33	mg/Kg wet							
Biphenyl	ND	0.65	mg/Kg wet							
Caprolactam	ND	0.33	mg/Kg wet							
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Acetophenone	ND	0.33	mg/Kg wet							
Aniline	ND	0.33	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.33	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.33	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.33	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.33	mg/Kg wet							L-05, V-06
4-Bromophenylphenylether	ND	0.33	mg/Kg wet							
Butylbenzylphthalate	ND	0.33	mg/Kg wet							V-06
Carbazole	ND	0.17	mg/Kg wet							
4-Chloroaniline	ND	0.64	mg/Kg wet							
4-Chloro-3-methylphenol	ND	0.64	mg/Kg wet							
2-Chloronaphthalene	ND	0.33	mg/Kg wet							
2-Chlorophenol	ND	0.33	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.33	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							V-06
Dibenzofuran	ND	0.33	mg/Kg wet							
Di-n-butylphthalate	ND	0.33	mg/Kg wet							V-06
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.33	mg/Kg wet							
Diethylphthalate	ND	0.33	mg/Kg wet							
2,4-Dimethylphenol	ND	0.33	mg/Kg wet							
Dimethylphthalate	ND	0.33	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.33	mg/Kg wet							
2,4-Dinitrophenol	ND	0.64	mg/Kg wet							
2,4-Dinitrotoluene	ND	0.33	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.33	mg/Kg wet							
Di-n-octylphthalate	ND	0.33	mg/Kg wet							L-02, V-06
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.33	mg/Kg wet							
Hexachlorobutadiene	ND	0.33	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.33	mg/Kg wet							L-04, V-05
Hexachloroethane	ND	0.33	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.33	mg/Kg wet							
1-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.33	mg/Kg wet							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B374087 - SW-846 3546												
Blank (B374087-BLK1)				Prepared: 05/12/24 Analyzed: 05/15/24								
3/4-Methylphenol	ND	0.33	mg/Kg wet									
Naphthalene	ND	0.17	mg/Kg wet									
2-Nitroaniline	ND	0.33	mg/Kg wet									
3-Nitroaniline	ND	0.33	mg/Kg wet									
4-Nitroaniline	ND	0.33	mg/Kg wet									
Nitrobenzene	ND	0.33	mg/Kg wet									
2-Nitrophenol	ND	0.33	mg/Kg wet									
4-Nitrophenol	ND	0.64	mg/Kg wet									
N-Nitrosodiphenylamine/Diphenylamine	ND	0.33	mg/Kg wet									
N-Nitrosodi-n-propylamine	ND	0.33	mg/Kg wet									
Pentachlorophenol	ND	0.33	mg/Kg wet								V-05	
Phenanthrene	ND	0.17	mg/Kg wet									
Phenol	ND	0.33	mg/Kg wet									
Pyrene	ND	0.17	mg/Kg wet									
Pyridine	ND	0.33	mg/Kg wet									
1,2,4,5-Tetrachlorobenzene	ND	0.33	mg/Kg wet									
2,4,5-Trichlorophenol	ND	0.33	mg/Kg wet									
2,4,6-Trichlorophenol	ND	0.33	mg/Kg wet									
Surrogate: 2-Fluorophenol	*5.59*		mg/Kg wet	6.49		86.1		30-130				
Surrogate: Phenol-d6	*5.59*		mg/Kg wet	6.49		86.1		30-130				
Surrogate: Nitrobenzene-d5	*2.88*		mg/Kg wet	3.25		88.8		30-130				
Surrogate: 2-Fluorobiphenyl	*2.74*		mg/Kg wet	3.25		84.3		30-130				
Surrogate: 2,4,6-Tribromophenol	*4.52*		mg/Kg wet	6.49		69.6		30-130				
Surrogate: p-Terphenyl-d14	*3.52*		mg/Kg wet	3.25		108		30-130				
LCS (B374087-BS1)				Prepared: 05/12/24 Analyzed: 05/15/24								
2,3,4,6-Tetrachlorophenol	1.27	0.66	mg/Kg wet	1.63		77.8		40-140				
Atrazine	1.53	0.66	mg/Kg wet	1.63		93.7		40-140				
Benzaldehyde	0.884	0.33	mg/Kg wet	1.63		54.2		40-140				
Biphenyl	1.61	0.66	mg/Kg wet	1.63		98.7		40-140				
Caprolactam	1.33	0.33	mg/Kg wet	1.63		81.6		40-140				
Acenaphthene	1.37	0.17	mg/Kg wet	1.63		83.9		40-140				
Acenaphthylene	1.39	0.17	mg/Kg wet	1.63		85.1		40-140				
Acetophenone	1.50	0.33	mg/Kg wet	1.63		91.8		40-140				
Aniline	0.831	0.33	mg/Kg wet	1.63		50.9		10-140				†
Anthracene	1.50	0.17	mg/Kg wet	1.63		92.1		40-140				
Benzo(a)anthracene	1.50	0.17	mg/Kg wet	1.63		91.8		40-140				
Benzo(a)pyrene	1.49	0.17	mg/Kg wet	1.63		91.1		40-140				
Benzo(b)fluoranthene	1.50	0.17	mg/Kg wet	1.63		92.2		40-140				
Benzo(g,h,i)perylene	1.66	0.17	mg/Kg wet	1.63		101		40-140				
Benzo(k)fluoranthene	1.58	0.17	mg/Kg wet	1.63		97.0		40-140				
Bis(2-chloroethoxy)methane	1.59	0.33	mg/Kg wet	1.63		97.1		40-140				
Bis(2-chloroethyl)ether	1.62	0.33	mg/Kg wet	1.63		99.2		40-140				
Bis(2-chloroisopropyl)ether	2.22	0.33	mg/Kg wet	1.63		136		40-140				
Bis(2-Ethylhexyl)phthalate	2.49	0.33	mg/Kg wet	1.63		**153**	*	40-140			L-05, V-06	
4-Bromophenylphenylether	1.50	0.33	mg/Kg wet	1.63		91.9		40-140				
Butylbenzylphthalate	1.93	0.33	mg/Kg wet	1.63		118		40-140			V-06	
Carbazole	1.48	0.17	mg/Kg wet	1.63		90.8		40-140				
4-Chloroaniline	0.904	0.65	mg/Kg wet	1.63		55.4		10-140				†
4-Chloro-3-methylphenol	1.51	0.65	mg/Kg wet	1.63		92.2		30-130				
2-Chloronaphthalene	1.36	0.33	mg/Kg wet	1.63		83.1		40-140				
2-Chlorophenol	1.46	0.33	mg/Kg wet	1.63		89.5		30-130				

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B374087 - SW-846 3546												
LCS (B374087-BS1)				Prepared: 05/12/24 Analyzed: 05/15/24								
4-Chlorophenylphenylether	1.51	0.33	mg/Kg wet	1.63		92.8		40-140				
Chrysene	1.46	0.17	mg/Kg wet	1.63		89.4		40-140				
Dibenz(a,h)anthracene	1.85	0.17	mg/Kg wet	1.63		113		40-140			V-06	
Dibenzofuran	1.52	0.33	mg/Kg wet	1.63		93.0		40-140				
Di-n-butylphthalate	1.93	0.33	mg/Kg wet	1.63		118		40-140			V-06	
3,3-Dichlorobenzidine	1.09	0.17	mg/Kg wet	1.63		66.6		20-140				†
2,4-Dichlorophenol	1.35	0.33	mg/Kg wet	1.63		83.0		30-130				
Diethylphthalate	1.66	0.33	mg/Kg wet	1.63		102		40-140				
2,4-Dimethylphenol	0.838	0.33	mg/Kg wet	1.63		51.3		30-130				
Dimethylphthalate	1.52	0.33	mg/Kg wet	1.63		93.4		40-140				
4,6-Dinitro-2-methylphenol	1.52	0.33	mg/Kg wet	1.63		93.3		30-130				
2,4-Dinitrophenol	0.907	0.65	mg/Kg wet	1.63		55.6		30-130				
2,4-Dinitrotoluene	1.59	0.33	mg/Kg wet	1.63		97.7		40-140				
2,6-Dinitrotoluene	1.64	0.33	mg/Kg wet	1.63		100		40-140				
Di-n-octylphthalate	2.43	0.33	mg/Kg wet	1.63		**149**	*	40-140			V-06, L-02	
Fluoranthene	1.47	0.17	mg/Kg wet	1.63		89.8		40-140				
Fluorene	1.48	0.17	mg/Kg wet	1.63		90.4		40-140				
Hexachlorobenzene	1.37	0.33	mg/Kg wet	1.63		84.1		40-140				
Hexachlorobutadiene	1.33	0.33	mg/Kg wet	1.63		81.7		40-140				
Hexachlorocyclopentadiene	0.298	0.33	mg/Kg wet	1.63		**18.3**	*	40-140			L-04, V-05, J	
Hexachloroethane	1.41	0.33	mg/Kg wet	1.63		86.1		40-140				
Indeno(1,2,3-cd)pyrene	1.78	0.17	mg/Kg wet	1.63		109		40-140				
Isophorone	1.60	0.33	mg/Kg wet	1.63		97.9		40-140				
1-Methylnaphthalene	1.45	0.17	mg/Kg wet	1.63		88.6		40-140				
2-Methylnaphthalene	1.47	0.17	mg/Kg wet	1.63		89.7		40-140				
2-Methylphenol	1.46	0.33	mg/Kg wet	1.63		89.7		30-130				
3/4-Methylphenol	1.63	0.33	mg/Kg wet	1.63		99.8		30-130				
Naphthalene	1.44	0.17	mg/Kg wet	1.63		88.3		40-140				
2-Nitroaniline	1.75	0.33	mg/Kg wet	1.63		107		40-140				
3-Nitroaniline	1.39	0.33	mg/Kg wet	1.63		84.9		30-140				†
4-Nitroaniline	1.51	0.33	mg/Kg wet	1.63		92.8		40-140				
Nitrobenzene	1.48	0.33	mg/Kg wet	1.63		90.5		40-140				
2-Nitrophenol	1.50	0.33	mg/Kg wet	1.63		91.6		30-130				
4-Nitrophenol	1.59	0.65	mg/Kg wet	1.63		97.4		30-130				
N-Nitrosodiphenylamine/Diphenylamine	1.64	0.33	mg/Kg wet	1.63		100		40-140				
N-Nitrosodi-n-propylamine	1.71	0.33	mg/Kg wet	1.63		105		40-140			V-06	
Pentachlorophenol	1.02	0.33	mg/Kg wet	1.63		62.5		30-130			V-05	
Phenanthrene	1.50	0.17	mg/Kg wet	1.63		91.9		40-140				
Phenol	1.50	0.33	mg/Kg wet	1.63		91.9		30-130				
Pyrene	1.44	0.17	mg/Kg wet	1.63		88.4		40-140				
Pyridine	0.801	0.33	mg/Kg wet	1.63		49.1		30-140				†
1,2,4,5-Tetrachlorobenzene	1.38	0.33	mg/Kg wet	1.63		84.3		40-140				
2,4,5-Trichlorophenol	1.44	0.33	mg/Kg wet	1.63		88.0		30-130				
2,4,6-Trichlorophenol	1.41	0.33	mg/Kg wet	1.63		86.2		30-130				
Surrogate: 2-Fluorophenol	*6.54*		mg/Kg wet	6.53		100		30-130				
Surrogate: Phenol-d6	*6.43*		mg/Kg wet	6.53		98.5		30-130				
Surrogate: Nitrobenzene-d5	*3.31*		mg/Kg wet	3.27		101		30-130				
Surrogate: 2-Fluorobiphenyl	*3.32*		mg/Kg wet	3.27		102		30-130				
Surrogate: 2,4,6-Tribromophenol	*5.97*		mg/Kg wet	6.53		91.5		30-130				
Surrogate: p-Terphenyl-d14	*3.63*		mg/Kg wet	3.27		111		30-130				

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B374087 - SW-846 3546												
LCS Dup (B374087-BSD1)				Prepared: 05/12/24 Analyzed: 05/15/24								
2,3,4,6-Tetrachlorophenol	1.24	0.66	mg/Kg wet	1.64		75.6		40-140	2.29	20		
Atrazine	1.49	0.66	mg/Kg wet	1.64		91.0		40-140	2.45	30		
Benzaldehyde	0.859	0.33	mg/Kg wet	1.64		52.3		40-140	2.86	20		
Biphenyl	1.54	0.66	mg/Kg wet	1.64		93.7		40-140	4.66	20		
Caprolactam	1.27	0.33	mg/Kg wet	1.64		77.5		40-140	4.55	20		
Acenaphthene	1.33	0.17	mg/Kg wet	1.64		80.9		40-140	3.13	30		
Acenaphthylene	1.35	0.17	mg/Kg wet	1.64		82.3		40-140	2.76	30		
Acetophenone	1.42	0.33	mg/Kg wet	1.64		86.3		40-140	5.62	30		
Aniline	0.751	0.33	mg/Kg wet	1.64		45.8		10-140	10.0	50		† ‡
Anthracene	1.48	0.17	mg/Kg wet	1.64		90.4		40-140	1.35	30		
Benzo(a)anthracene	1.49	0.17	mg/Kg wet	1.64		90.7		40-140	0.736	30		
Benzo(a)pyrene	1.48	0.17	mg/Kg wet	1.64		90.0		40-140	0.658	30		
Benzo(b)fluoranthene	1.46	0.17	mg/Kg wet	1.64		89.2		40-140	2.71	30		
Benzo(g,h,i)perylene	1.64	0.17	mg/Kg wet	1.64		100		40-140	0.733	30		
Benzo(k)fluoranthene	1.58	0.17	mg/Kg wet	1.64		96.5		40-140	0.0192	30		
Bis(2-chloroethoxy)methane	1.55	0.33	mg/Kg wet	1.64		94.1		40-140	2.60	30		
Bis(2-chloroethyl)ether	1.57	0.33	mg/Kg wet	1.64		95.7		40-140	3.12	30		
Bis(2-chloroisopropyl)ether	2.13	0.33	mg/Kg wet	1.64		130		40-140	3.98	30		
Bis(2-Ethylhexyl)phthalate	2.43	0.33	mg/Kg wet	1.64		**148**	*	40-140	2.42	30	L-05, V-06	
4-Bromophenylphenylether	1.44	0.33	mg/Kg wet	1.64		87.6		40-140	4.28	30		
Butylbenzylphthalate	1.91	0.33	mg/Kg wet	1.64		116		40-140	1.29	30	V-06	
Carbazole	1.48	0.17	mg/Kg wet	1.64		90.2		40-140	0.173	30		
4-Chloroaniline	0.827	0.65	mg/Kg wet	1.64		50.4		10-140	8.94	30		†
4-Chloro-3-methylphenol	1.47	0.65	mg/Kg wet	1.64		89.2		30-130	2.75	30		
2-Chloronaphthalene	1.19	0.33	mg/Kg wet	1.64		72.3		40-140	13.3	30		
2-Chlorophenol	1.41	0.33	mg/Kg wet	1.64		85.8		30-130	3.64	30		
4-Chlorophenylphenylether	1.46	0.33	mg/Kg wet	1.64		89.1		40-140	3.42	30		
Chrysene	1.46	0.17	mg/Kg wet	1.64		89.1		40-140	0.198	30		
Dibenz(a,h)anthracene	1.83	0.17	mg/Kg wet	1.64		111		40-140	0.959	30	V-06	
Dibenzofuran	1.47	0.33	mg/Kg wet	1.64		89.7		40-140	3.06	30		
Di-n-butylphthalate	1.93	0.33	mg/Kg wet	1.64		118		40-140	0.0135	30	V-06	
3,3-Dichlorobenzidine	1.00	0.17	mg/Kg wet	1.64		60.9		20-140	8.36	50		† ‡
2,4-Dichlorophenol	1.30	0.33	mg/Kg wet	1.64		79.3		30-130	3.95	30		
Diethylphthalate	1.60	0.33	mg/Kg wet	1.64		97.4		40-140	3.66	30		
2,4-Dimethylphenol	0.801	0.33	mg/Kg wet	1.64		48.8		30-130	4.56	30		
Dimethylphthalate	1.48	0.33	mg/Kg wet	1.64		90.0		40-140	3.15	30		
4,6-Dinitro-2-methylphenol	1.56	0.33	mg/Kg wet	1.64		94.9		30-130	2.28	30		
2,4-Dinitrophenol	0.902	0.65	mg/Kg wet	1.64		54.9		30-130	0.565	30		
2,4-Dinitrotoluene	1.57	0.33	mg/Kg wet	1.64		95.3		40-140	1.87	30		
2,6-Dinitrotoluene	1.61	0.33	mg/Kg wet	1.64		97.8		40-140	2.05	30		
Di-n-octylphthalate	2.35	0.33	mg/Kg wet	1.64		**143**	*	40-140	3.43	30	L-02, V-06	
Fluoranthene	1.47	0.17	mg/Kg wet	1.64		89.7		40-140	0.490	30		
Fluorene	1.42	0.17	mg/Kg wet	1.64		86.6		40-140	3.74	30		
Hexachlorobenzene	1.37	0.33	mg/Kg wet	1.64		83.2		40-140	0.567	30		
Hexachlorobutadiene	1.27	0.33	mg/Kg wet	1.64		77.1		40-140	5.29	30		
Hexachlorocyclopentadiene	0.240	0.33	mg/Kg wet	1.64		**14.6**	*	40-140	21.7	30	L-04, V-05, J	
Hexachloroethane	1.37	0.33	mg/Kg wet	1.64		83.6		40-140	2.48	30		
Indeno(1,2,3-cd)pyrene	1.74	0.17	mg/Kg wet	1.64		106		40-140	2.63	30		
Isophorone	1.53	0.33	mg/Kg wet	1.64		92.9		40-140	4.68	30		
1-Methylnaphthalene	1.38	0.17	mg/Kg wet	1.64		84.3		40-140	4.37	30		
2-Methylnaphthalene	1.39	0.17	mg/Kg wet	1.64		84.4		40-140	5.55	30		
2-Methylphenol	1.42	0.33	mg/Kg wet	1.64		86.2		30-130	3.40	30		

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B374087 - SW-846 3546												
LCS Dup (B374087-BSD1)				Prepared: 05/12/24 Analyzed: 05/15/24								
3/4-Methylphenol	1.55	0.33	mg/Kg wet	1.64		94.3		30-130	5.07	30		
Naphthalene	1.38	0.17	mg/Kg wet	1.64		84.1		40-140	4.29	30		
2-Nitroaniline	1.71	0.33	mg/Kg wet	1.64		104		40-140	2.13	30		
3-Nitroaniline	1.35	0.33	mg/Kg wet	1.64		82.0		30-140	2.99	30		†
4-Nitroaniline	1.51	0.33	mg/Kg wet	1.64		91.7		40-140	0.614	30		
Nitrobenzene	1.43	0.33	mg/Kg wet	1.64		86.9		40-140	3.43	30		
2-Nitrophenol	1.44	0.33	mg/Kg wet	1.64		87.6		30-130	3.91	30		
4-Nitrophenol	1.57	0.65	mg/Kg wet	1.64		95.7		30-130	1.29	50		‡
N-Nitrosodiphenylamine/Diphenylamine	1.60	0.33	mg/Kg wet	1.64		97.3		40-140	2.46	30		
N-Nitrosodi-n-propylamine	1.61	0.33	mg/Kg wet	1.64		97.9		40-140	6.19	30		
Pentachlorophenol	1.03	0.33	mg/Kg wet	1.64		62.8		30-130	1.04	30	V-05	
Phenanthrene	1.48	0.17	mg/Kg wet	1.64		89.9		40-140	1.58	30		
Phenol	1.45	0.33	mg/Kg wet	1.64		88.3		30-130	3.53	30		
Pyrene	1.44	0.17	mg/Kg wet	1.64		87.4		40-140	0.581	30		
Pyridine	0.811	0.33	mg/Kg wet	1.64		49.4		30-140	1.21	30		†
1,2,4,5-Tetrachlorobenzene	1.31	0.33	mg/Kg wet	1.64		79.9		40-140	4.85	30		
2,4,5-Trichlorophenol	1.39	0.33	mg/Kg wet	1.64		84.6		30-130	3.36	30		
2,4,6-Trichlorophenol	1.36	0.33	mg/Kg wet	1.64		82.8		30-130	3.49	30		
Surrogate: 2-Fluorophenol	*6.19*		mg/Kg wet	6.57		94.2		30-130				
Surrogate: Phenol-d6	*6.05*		mg/Kg wet	6.57		92.1		30-130				
Surrogate: Nitrobenzene-d5	*3.09*		mg/Kg wet	3.28		94.0		30-130				
Surrogate: 2-Fluorobiphenyl	*3.13*		mg/Kg wet	3.28		95.4		30-130				
Surrogate: 2,4,6-Tribromophenol	*5.71*		mg/Kg wet	6.57		86.9		30-130				
Surrogate: p-Terphenyl-d14	*3.52*		mg/Kg wet	3.28		107		30-130				
Matrix Spike (B374087-MS1)		**Source: 24E1437-06**		Prepared: 05/12/24 Analyzed: 05/16/24								
2,3,4,6-Tetrachlorophenol	0.891	0.92	mg/Kg dry	2.30	ND	**38.8**	*	40-140			MS-09, J	
Atrazine	1.10	0.92	mg/Kg dry	2.30	ND	47.6		40-140				
Benzaldehyde	0.605	0.47	mg/Kg dry	2.30	ND	**26.3**	*	40-140			MS-09	
Biphenyl	1.14	0.92	mg/Kg dry	2.30	ND	49.8		40-140				
Caprolactam	1.03	0.47	mg/Kg dry	2.30	ND	45.0		40-140				
Acenaphthene	0.990	0.23	mg/Kg dry	2.30	ND	43.1		40-140				
Acenaphthylene	0.999	0.23	mg/Kg dry	2.30	ND	43.5		40-140				
Acetophenone	1.09	0.47	mg/Kg dry	2.30	ND	47.3		40-140				
Aniline	0.240	0.47	mg/Kg dry	2.30	ND	**10.4**	*	40-140			MS-09, J	
Anthracene	1.07	0.23	mg/Kg dry	2.30	ND	46.5		40-140				
Benzo(a)anthracene	1.13	0.23	mg/Kg dry	2.30	ND	49.0		40-140				
Benzo(a)pyrene	1.05	0.23	mg/Kg dry	2.30	ND	45.6		40-140				
Benzo(b)fluoranthene	1.07	0.23	mg/Kg dry	2.30	ND	46.8		40-140				
Benzo(g,h,i)perylene	0.843	0.23	mg/Kg dry	2.30	ND	**36.7**	*	40-140			MS-09	
Benzo(k)fluoranthene	1.17	0.23	mg/Kg dry	2.30	ND	51.0		40-140				
Bis(2-chloroethoxy)methane	1.13	0.47	mg/Kg dry	2.30	ND	49.2		40-140				
Bis(2-chloroethyl)ether	1.15	0.47	mg/Kg dry	2.30	ND	50.1		40-140				
Bis(2-chloroisopropyl)ether	1.57	0.47	mg/Kg dry	2.30	ND	68.5		40-140			V-06	
Bis(2-Ethylhexyl)phthalate	1.66	0.47	mg/Kg dry	2.30	ND	72.1		40-140			V-06	
4-Bromophenylphenylether	1.03	0.47	mg/Kg dry	2.30	ND	45.0		40-140				
Butylbenzylphthalate	1.50	0.47	mg/Kg dry	2.30	ND	65.1		40-140				
Carbazole	1.09	0.23	mg/Kg dry	2.30	ND	47.6		40-140				
4-Chloroaniline	0.428	0.91	mg/Kg dry	2.30	ND	**18.6**	*	40-140			MS-09, J	
4-Chloro-3-methylphenol	1.11	0.91	mg/Kg dry	2.30	ND	48.3		30-130				
2-Chloronaphthalene	0.924	0.47	mg/Kg dry	2.30	ND	40.2		40-140				
2-Chlorophenol	1.01	0.47	mg/Kg dry	2.30	ND	43.8		30-130				

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B374087 - SW-846 3546											
Matrix Spike (B374087-MS1)		**Source: 24E1437-06**		Prepared: 05/12/24 Analyzed: 05/16/24							
4-Chlorophenylphenylether	1.05	0.47	mg/Kg dry	2.30	ND	45.8		40-140			
Chrysene	1.10	0.23	mg/Kg dry	2.30	ND	48.0		40-140			
Dibenz(a,h)anthracene	1.04	0.23	mg/Kg dry	2.30	ND	45.4		40-140			
Dibenzofuran	1.10	0.47	mg/Kg dry	2.30	ND	47.9		40-140			
Di-n-butylphthalate	1.22	0.47	mg/Kg dry	2.30	ND	52.9		40-140			
3,3-Dichlorobenzidine	0.162	0.23	mg/Kg dry	2.30	ND	**7.04**	*	40-140			MS-09, J
2,4-Dichlorophenol	0.964	0.47	mg/Kg dry	2.30	ND	41.9		30-130			
Diethylphthalate	1.15	0.47	mg/Kg dry	2.30	ND	49.8		40-140			
2,4-Dimethylphenol	0.360	0.47	mg/Kg dry	2.30	ND	**15.7**	*	30-130			MS-09, J
Dimethylphthalate	1.12	0.47	mg/Kg dry	2.30	ND	48.7		40-140			
4,6-Dinitro-2-methylphenol	1.04	0.47	mg/Kg dry	2.30	ND	45.2		30-130			
2,4-Dinitrophenol	0.860	0.91	mg/Kg dry	2.30	ND	37.4		30-130			J
2,4-Dinitrotoluene	1.19	0.47	mg/Kg dry	2.30	ND	51.9		40-140			
2,6-Dinitrotoluene	1.22	0.47	mg/Kg dry	2.30	ND	53.2		40-140			
Di-n-octylphthalate	1.53	0.47	mg/Kg dry	2.30	ND	66.5		40-140			V-06
Fluoranthene	0.988	0.23	mg/Kg dry	2.30	0.0708	**39.9**	*	40-140			MS-09
Fluorene	1.06	0.23	mg/Kg dry	2.30	ND	46.3		40-140			
Hexachlorobenzene	0.982	0.47	mg/Kg dry	2.30	ND	42.7		40-140			
Hexachlorobutadiene	0.922	0.47	mg/Kg dry	2.30	ND	40.1		40-140			
Hexachlorocyclopentadiene	0.00506	0.47	mg/Kg dry	2.30	ND	**0.220**	*	30-130			V-05, MS-09, J
Hexachloroethane	0.753	0.47	mg/Kg dry	2.30	ND	**32.7**	*	40-140			MS-09
Indeno(1,2,3-cd)pyrene	0.932	0.23	mg/Kg dry	2.30	ND	40.6		40-140			
Isophorone	1.15	0.47	mg/Kg dry	2.30	ND	50.0		40-140			
1-Methylnaphthalene	1.05	0.23	mg/Kg dry	2.30	ND	45.6		40-140			
2-Methylnaphthalene	1.04	0.23	mg/Kg dry	2.30	ND	45.5		40-140			
2-Methylphenol	0.916	0.47	mg/Kg dry	2.30	ND	39.9		30-130			
3/4-Methylphenol	1.04	0.47	mg/Kg dry	2.30	ND	45.2		30-130			
Naphthalene	1.04	0.23	mg/Kg dry	2.30	ND	45.1		40-140			
2-Nitroaniline	1.38	0.47	mg/Kg dry	2.30	ND	60.2		40-140			
3-Nitroaniline	1.53	0.47	mg/Kg dry	2.30	ND	66.6		40-140			
4-Nitroaniline	1.04	0.47	mg/Kg dry	2.30	ND	45.1		40-140			
Nitrobenzene	1.08	0.47	mg/Kg dry	2.30	ND	46.9		40-140			
2-Nitrophenol	1.10	0.47	mg/Kg dry	2.30	ND	47.9		30-130			
4-Nitrophenol	1.28	0.91	mg/Kg dry	2.30	ND	55.9		30-130			
N-Nitrosodiphenylamine/Diphenylamine	1.08	0.47	mg/Kg dry	2.30	ND	47.1		40-140			
N-Nitrosodi-n-propylamine	1.18	0.47	mg/Kg dry	2.30	ND	51.2		40-140			V-06
Pentachlorophenol	0.624	0.47	mg/Kg dry	2.30	ND	**27.1**	*	30-130			V-05, MS-09
Phenanthrene	1.10	0.23	mg/Kg dry	2.30	ND	47.7		40-140			
Phenol	1.05	0.47	mg/Kg dry	2.30	ND	45.9		30-130			
Pyrene	1.39	0.23	mg/Kg dry	2.30	0.0823	56.7		40-140			
Pyridine	0.548	0.47	mg/Kg dry	2.30	ND	**23.8**	*	40-140			MS-09
1,2,4,5-Tetrachlorobenzene	0.967	0.47	mg/Kg dry	2.30	ND	42.1		40-140			
2,4,5-Trichlorophenol	1.05	0.47	mg/Kg dry	2.30	ND	45.6		30-130			
2,4,6-Trichlorophenol	0.957	0.47	mg/Kg dry	2.30	ND	41.6		30-130			
Surrogate: 2-Fluorophenol	*4.32*		mg/Kg dry	9.19		47.0		30-130			
Surrogate: Phenol-d6	*4.40*		mg/Kg dry	9.19		47.9		30-130			
Surrogate: Nitrobenzene-d5	*2.36*		mg/Kg dry	4.60		51.4		30-130			
Surrogate: 2-Fluorobiphenyl	*2.33*		mg/Kg dry	4.60		50.6		30-130			
Surrogate: 2,4,6-Tribromophenol	*3.69*		mg/Kg dry	9.19		40.2		30-130			
Surrogate: p-Terphenyl-d14	*3.15*		mg/Kg dry	4.60		68.5		30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B374087 - SW-846 3546											
Matrix Spike Dup (B374087-MSD1)	**Source: 24E1437-06**			Prepared: 05/12/24 Analyzed: 05/16/24							
2,3,4,6-Tetrachlorophenol	0.845	0.92	mg/Kg dry	2.30	ND	**36.8**	*	40-140	5.29	30	MS-09, J
Atrazine	1.04	0.92	mg/Kg dry	2.30	ND	45.4		40-140	4.77	30	
Benzaldehyde	0.633	0.47	mg/Kg dry	2.30	ND	**27.6**	*	40-140	4.60	30	MS-09
Biphenyl	1.10	0.92	mg/Kg dry	2.30	ND	47.9		40-140	3.77	30	
Caprolactam	0.973	0.47	mg/Kg dry	2.30	ND	42.3		40-140	6.14	30	
Acenaphthene	0.949	0.23	mg/Kg dry	2.30	ND	41.3		40-140	4.27	30	
Acenaphthylene	0.958	0.23	mg/Kg dry	2.30	ND	41.7		40-140	4.23	30	
Acetophenone	1.05	0.47	mg/Kg dry	2.30	ND	45.9		40-140	3.09	30	
Aniline	0.234	0.47	mg/Kg dry	2.30	ND	**10.2**	*	40-140	2.53	30	MS-09, J
Anthracene	1.01	0.23	mg/Kg dry	2.30	ND	44.1		40-140	5.16	30	
Benzo(a)anthracene	1.05	0.23	mg/Kg dry	2.30	ND	45.7		40-140	7.01	30	
Benzo(a)pyrene	0.959	0.23	mg/Kg dry	2.30	ND	41.7		40-140	8.88	30	
Benzo(b)fluoranthene	0.968	0.23	mg/Kg dry	2.30	ND	42.1		40-140	10.4	30	
Benzo(g,h,i)perylene	0.764	0.23	mg/Kg dry	2.30	ND	**33.2**	*	40-140	9.84	30	MS-09
Benzo(k)fluoranthene	1.12	0.23	mg/Kg dry	2.30	ND	48.7		40-140	4.53	30	
Bis(2-chloroethoxy)methane	1.09	0.47	mg/Kg dry	2.30	ND	47.3		40-140	3.86	30	
Bis(2-chloroethyl)ether	1.08	0.47	mg/Kg dry	2.30	ND	47.2		40-140	6.09	30	
Bis(2-chloroisopropyl)ether	1.43	0.47	mg/Kg dry	2.30	ND	62.3		40-140	9.42	30	V-06
Bis(2-Ethylhexyl)phthalate	1.53	0.47	mg/Kg dry	2.30	ND	66.7		40-140	7.70	30	V-06
4-Bromophenylphenylether	1.02	0.47	mg/Kg dry	2.30	ND	44.5		40-140	1.12	30	
Butylbenzylphthalate	1.38	0.47	mg/Kg dry	2.30	ND	60.1		40-140	7.98	30	
Carbazole	1.02	0.23	mg/Kg dry	2.30	ND	44.5		40-140	6.60	30	
4-Chloroaniline	0.436	0.91	mg/Kg dry	2.30	ND	**19.0**	*	40-140	2.02	30	MS-09, J
4-Chloro-3-methylphenol	1.05	0.91	mg/Kg dry	2.30	ND	45.5		30-130	5.89	30	
2-Chloronaphthalene	0.899	0.47	mg/Kg dry	2.30	ND	**39.1**	*	40-140	2.72	30	MS-22
2-Chlorophenol	0.992	0.47	mg/Kg dry	2.30	ND	43.1		30-130	1.47	30	
4-Chlorophenylphenylether	1.03	0.47	mg/Kg dry	2.30	ND	44.8		40-140	2.12	30	
Chrysene	1.04	0.23	mg/Kg dry	2.30	ND	45.3		40-140	5.75	30	
Dibenz(a,h)anthracene	0.889	0.23	mg/Kg dry	2.30	ND	**38.7**	*	40-140	15.9	30	MS-22
Dibenzofuran	1.05	0.47	mg/Kg dry	2.30	ND	45.8		40-140	4.52	30	
Di-n-butylphthalate	1.12	0.47	mg/Kg dry	2.30	ND	48.7		40-140	8.23	30	
3,3-Dichlorobenzidine	0.176	0.23	mg/Kg dry	2.30	ND	**7.64**	*	40-140	8.17	30	MS-09, J
2,4-Dichlorophenol	0.943	0.47	mg/Kg dry	2.30	ND	41.0		30-130	2.12	30	
Diethylphthalate	1.08	0.47	mg/Kg dry	2.30	ND	46.8		40-140	6.25	30	
2,4-Dimethylphenol	0.267	0.47	mg/Kg dry	2.30	ND	**11.6**	*	30-130	29.9	30	MS-09, J
Dimethylphthalate	1.09	0.47	mg/Kg dry	2.30	ND	47.3		40-140	2.92	30	
4,6-Dinitro-2-methylphenol	0.984	0.47	mg/Kg dry	2.30	ND	42.8		30-130	5.41	30	
2,4-Dinitrophenol	0.841	0.91	mg/Kg dry	2.30	ND	36.6		30-130	2.16	30	J
2,4-Dinitrotoluene	1.15	0.47	mg/Kg dry	2.30	ND	50.1		40-140	3.53	30	
2,6-Dinitrotoluene	1.19	0.47	mg/Kg dry	2.30	ND	51.8		40-140	2.74	30	
Di-n-octylphthalate	1.34	0.47	mg/Kg dry	2.30	ND	58.2		40-140	13.3	30	V-06
Fluoranthene	0.952	0.23	mg/Kg dry	2.30	0.0708	**38.3**	*	40-140	3.74	30	MS-09
Fluorene	1.01	0.23	mg/Kg dry	2.30	ND	43.9		40-140	5.28	30	
Hexachlorobenzene	0.970	0.47	mg/Kg dry	2.30	ND	42.2		40-140	1.27	30	
Hexachlorobutadiene	0.971	0.47	mg/Kg dry	2.30	ND	42.2		40-140	5.15	30	
Hexachlorocyclopentadiene	0.00965	0.47	mg/Kg dry	2.30	ND	**0.420**	*	30-130		30	MS-09, V-05, J
Hexachloroethane	0.773	0.47	mg/Kg dry	2.30	ND	**33.6**	*	40-140	2.65	30	MS-09
Indeno(1,2,3-cd)pyrene	0.825	0.23	mg/Kg dry	2.30	ND	**35.9**	*	40-140	12.2	30	MS-22
Isophorone	1.09	0.47	mg/Kg dry	2.30	ND	47.4		40-140	5.38	30	
1-Methylnaphthalene	1.03	0.23	mg/Kg dry	2.30	ND	44.7		40-140	1.99	30	
2-Methylnaphthalene	1.03	0.23	mg/Kg dry	2.30	ND	44.7		40-140	1.60	30	
2-Methylphenol	0.848	0.47	mg/Kg dry	2.30	ND	36.9		30-130	7.71	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B374087 - SW-846 3546											
Matrix Spike Dup (B374087-MSD1)	**Source: 24E1437-06**			Prepared: 05/12/24 Analyzed: 05/16/24							
3/4-Methylphenol	0.954	0.47	mg/Kg dry	2.30	ND	41.5		30-130	8.44	30	
Naphthalene	1.03	0.23	mg/Kg dry	2.30	ND	44.9		40-140	0.355	30	
2-Nitroaniline	1.21	0.47	mg/Kg dry	2.30	ND	52.5		40-140	13.7	30	
3-Nitroaniline	1.38	0.47	mg/Kg dry	2.30	ND	60.0		40-140	10.4	30	
4-Nitroaniline	1.02	0.47	mg/Kg dry	2.30	ND	44.2		40-140	2.11	30	
Nitrobenzene	1.02	0.47	mg/Kg dry	2.30	ND	44.3		40-140	5.61	30	
2-Nitrophenol	1.09	0.47	mg/Kg dry	2.30	ND	47.4		30-130	1.13	30	
4-Nitrophenol	1.20	0.91	mg/Kg dry	2.30	ND	52.3		30-130	6.65	30	
N-Nitrosodiphenylamine/Diphenylamine	1.01	0.47	mg/Kg dry	2.30	ND	43.8		40-140	7.35	30	
N-Nitrosodi-n-propylamine	1.11	0.47	mg/Kg dry	2.30	ND	48.1		40-140	6.20	30	
Pentachlorophenol	0.599	0.47	mg/Kg dry	2.30	ND	**26.1**	*	30-130	3.98	30	MS-09, V-05
Phenanthrene	1.04	0.23	mg/Kg dry	2.30	ND	45.2		40-140	5.43	30	
Phenol	1.00	0.47	mg/Kg dry	2.30	ND	43.5		30-130	5.23	30	
Pyrene	1.33	0.23	mg/Kg dry	2.30	0.0823	54.2		40-140	4.30	30	
Pyridine	0.573	0.47	mg/Kg dry	2.30	ND	**24.9**	*	40-140	4.43	30	MS-09
1,2,4,5-Tetrachlorobenzene	0.968	0.47	mg/Kg dry	2.30	ND	42.1		40-140	0.0950	30	
2,4,5-Trichlorophenol	1.02	0.47	mg/Kg dry	2.30	ND	44.5		30-130	2.49	30	
2,4,6-Trichlorophenol	0.924	0.47	mg/Kg dry	2.30	ND	40.2		30-130	3.52	30	
Surrogate: 2-Fluorophenol	*4.20*		mg/Kg dry	9.19		45.7		30-130			
Surrogate: Phenol-d6	*4.11*		mg/Kg dry	9.19		44.7		30-130			
Surrogate: Nitrobenzene-d5	*2.24*		mg/Kg dry	4.60		48.7		30-130			
Surrogate: 2-Fluorobiphenyl	*2.23*		mg/Kg dry	4.60		48.6		30-130			
Surrogate: 2,4,6-Tribromophenol	*3.50*		mg/Kg dry	9.19		38.0		30-130			
Surrogate: p-Terphenyl-d14	*3.03*		mg/Kg dry	4.60		65.9		30-130			

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QUALITY CONTROL

1,4-Dioxane by isotope dilution GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B374074 - SW-846 3546											
Blank (B374074-BLK1)				Prepared: 05/10/24 Analyzed: 05/13/24							
1,4-Dioxane	ND	0.048	mg/Kg wet								
Surrogate: 1,4-Dioxane-d8	*0.594*		mg/Kg wet	0.485		**123**	*	15-110			S-17
LCS (B374074-BS1)				Prepared: 05/10/24 Analyzed: 05/13/24							
1,4-Dioxane	0.456	0.049	mg/Kg wet	0.486		94.0		40-140			
Surrogate: 1,4-Dioxane-d8	*0.247*		mg/Kg wet	0.486		50.8		15-110			
LCS Dup (B374074-BSD1)				Prepared: 05/10/24 Analyzed: 05/13/24							
1,4-Dioxane	0.507	0.048	mg/Kg wet	0.484		105		40-140	10.6	30	
Surrogate: 1,4-Dioxane-d8	*0.195*		mg/Kg wet	0.484		40.4		15-110			
Matrix Spike (B374074-MS1)	**Source: 24E1437-06**			Prepared: 05/10/24 Analyzed: 05/13/24							
1,4-Dioxane	0.646	0.068	mg/Kg dry	0.683	ND	94.6		30-140			
Surrogate: 1,4-Dioxane-d8	*0.226*		mg/Kg dry	0.683		33.1		15-110			
Matrix Spike Dup (B374074-MSD1)	**Source: 24E1437-06**			Prepared: 05/10/24 Analyzed: 05/13/24							
1,4-Dioxane	0.658	0.068	mg/Kg dry	0.683	ND	96.3		30-140	1.76	30	
Surrogate: 1,4-Dioxane-d8	*0.246*		mg/Kg dry	0.683		36.0		15-110			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B374213 - Draft Method 1633										
Blank (B374213-BLK1)				Prepared: 05/15/24 Analyzed: 05/18/24						
Perfluorobutanoic acid (PFBA)	ND	0.78	µg/kg wet							
Perfluoropentanoic acid (PFPeA)	ND	0.39	µg/kg wet							
Perfluorohexanoic acid (PFHxA)	ND	0.19	µg/kg wet							
Perfluoroheptanoic acid (PFHpA)	ND	0.19	µg/kg wet							
Perfluorooctanoic acid (PFOA)	ND	0.19	µg/kg wet							
Perfluorononanoic acid (PFNA)	ND	0.19	µg/kg wet							
Perfluorodecanoic acid (PFDA)	ND	0.19	µg/kg wet							
Perfluoroundecanoic acid (PFUnA)	ND	0.19	µg/kg wet							
Perfluorododecanoic acid (PFDoA)	ND	0.19	µg/kg wet							
Perfluorotridecanoic acid (PFTrDA)	ND	0.19	µg/kg wet							
Perfluorotetradecanoic acid (PFTeDA)	ND	0.19	µg/kg wet							
Perfluorobutanesulfonic acid (PFBS)	ND	0.19	µg/kg wet							
Perfluoropentanesulfonic acid (PFPeS)	ND	0.19	µg/kg wet							
Perfluorohexanesulfonic acid (PFHxS)	ND	0.19	µg/kg wet							
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.19	µg/kg wet							
Perfluorooctanesulfonic acid (PFOS)	ND	0.19	µg/kg wet							
Perfluorononanesulfonic acid (PFNS)	ND	0.19	µg/kg wet							
Perfluorodecanesulfonic acid (PFDS)	ND	0.19	µg/kg wet							
Perfluorododecanesulfonic acid (PFDoS)	ND	0.19	µg/kg wet							
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.78	µg/kg wet							
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.78	µg/kg wet							
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.78	µg/kg wet							
Perfluorooctanesulfonamide (PFOSA)	ND	0.19	µg/kg wet							
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.19	µg/kg wet							
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.19	µg/kg wet							
N-MeFOSAA (NMeFOSAA)	ND	0.19	µg/kg wet							V-05
N-EtFOSAA (NEtFOSAA)	ND	0.19	µg/kg wet							
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	1.9	µg/kg wet							
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	1.9	µg/kg wet							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.78	µg/kg wet							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.78	µg/kg wet							
9Cl-PF3ONS (F53B Minor)	ND	0.78	µg/kg wet							
11Cl-PF3OUdS (F53B Major)	ND	0.78	µg/kg wet							
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	1.9	µg/kg wet							
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	9.7	µg/kg wet							
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	9.7	µg/kg wet							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.39	µg/kg wet							
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.39	µg/kg wet							
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.39	µg/kg wet							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.39	µg/kg wet							
Surrogate: 13C4-PFBA	*8.81*		µg/kg wet	9.71		90.7	10-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B374213 - Draft Method 1633										
Blank (B374213-BLK1)				Prepared: 05/15/24 Analyzed: 05/18/24						
Surrogate: 13C5-PFPeA	*4.54*		µg/kg wet	4.86		93.5	35-150			
Surrogate: 13C5-PFHxA	*2.18*		µg/kg wet	2.43		89.7	55-150			
Surrogate: 13C4-PFHpA	*2.39*		µg/kg wet	2.43		98.6	55-150			
Surrogate: 13C8-PFOA	*2.25*		µg/kg wet	2.43		92.6	60-140			
Surrogate: 13C9-PFNA	*1.12*		µg/kg wet	1.21		92.2	55-140			
Surrogate: 13C6-PFDA	*1.10*		µg/kg wet	1.21		90.8	50-140			
Surrogate: 13C7-PFUnA	*1.15*		µg/kg wet	1.21		95.1	30-140			
Surrogate: 13C2-PFDoA	*1.08*		µg/kg wet	1.21		88.9	10-150			
Surrogate: 13C2-PFTeDA	*0.973*		µg/kg wet	1.21		80.1	10-130			
Surrogate: 13C3-PFBS	*2.32*		µg/kg wet	2.43		95.7	55-150			
Surrogate: 13C3-PFHxS	*2.16*		µg/kg wet	2.43		88.9	55-150			
Surrogate: 13C8-PFOS	*2.34*		µg/kg wet	2.43		96.4	45-140			
Surrogate: 13C2-4:2FTS	*5.44*		µg/kg wet	4.86		112	60-200			
Surrogate: 13C2-6:2FTS	*5.87*		µg/kg wet	4.86		121	60-200			
Surrogate: 13C2-8:2FTS	*5.77*		µg/kg wet	4.86		119	50-200			
Surrogate: 13C8-PFOSA	*2.05*		µg/kg wet	2.43		84.3	30-130			
Surrogate: D3-NMeFOSA	*1.53*		µg/kg wet	2.43		63.2	15-130			
Surrogate: D5-NEtFOSA	*1.53*		µg/kg wet	2.43		62.9	10-130			
Surrogate: D3-NMeFOSAA	*6.22*		µg/kg wet	4.86		128	45-200			
Surrogate: D5-NEtFOSAA	*5.03*		µg/kg wet	4.86		104	10-200			
Surrogate: D7-NMeFOSE	*17.2*		µg/kg wet	24.3		70.9	10-150			
Surrogate: D9-NEtFOSE	*16.9*		µg/kg wet	24.3		69.7	10-150			
Surrogate: 13C3-HFPO-DA	*9.13*		µg/kg wet	9.71		94.0	25-160			
LCS (B374213-BS1)				Prepared: 05/15/24 Analyzed: 05/18/24						
Perfluorobutanoic acid (PFBA)	8.02	0.77	µg/kg wet	9.29		86.3	58-148			
Perfluoropentanoic acid (PFPeA)	3.98	0.39	µg/kg wet	4.64		85.7	54-152			
Perfluorohexanoic acid (PFHxA)	1.96	0.19	µg/kg wet	2.32		84.5	55-152			
Perfluoroheptanoic acid (PFHpA)	1.94	0.19	µg/kg wet	2.32		83.6	54-154			
Perfluorooctanoic acid (PFOA)	1.96	0.19	µg/kg wet	2.32		84.6	52-161			
Perfluorononanoic acid (PFNA)	1.97	0.19	µg/kg wet	2.32		84.7	59-149			
Perfluorodecanoic acid (PFDA)	1.96	0.19	µg/kg wet	2.32		84.6	52-147			
Perfluoroundecanoic acid (PFUnA)	1.95	0.19	µg/kg wet	2.32		84.1	48-159			
Perfluorododecanoic acid (PFDoA)	2.00	0.19	µg/kg wet	2.32		86.2	64-142			
Perfluorotridecanoic acid (PFTrDA)	1.96	0.19	µg/kg wet	2.32		84.5	49-148			
Perfluorotetradecanoic acid (PFTeDA)	1.97	0.19	µg/kg wet	2.32		84.8	47-161			
Perfluorobutanesulfonic acid (PFBS)	1.79	0.19	µg/kg wet	2.06		86.6	62-144			
Perfluoropentanesulfonic acid (PFPeS)	1.94	0.19	µg/kg wet	2.18		89.0	59-151			
Perfluorohexanesulfonic acid (PFHxS)	1.79	0.19	µg/kg wet	2.12		84.4	57-146			
Perfluoroheptanesulfonic acid (PFHpS)	1.92	0.19	µg/kg wet	2.21		86.7	55-152			
Perfluorooctanesulfonic acid (PFOS)	1.70	0.19	µg/kg wet	2.15		79.2	58-149			
Perfluorononanesulfonic acid (PFNS)	1.93	0.19	µg/kg wet	2.23		86.5	52-148			
Perfluorodecanesulfonic acid (PFDS)	1.90	0.19	µg/kg wet	2.24		84.7	51-147			
Perfluorododecanesulfonic acid (PFDoS)	1.85	0.19	µg/kg wet	2.25		82.2	36-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	7.54	0.77	µg/kg wet	8.71		86.6	67-146			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	7.44	0.77	µg/kg wet	8.82		84.3	61-151			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	8.40	0.77	µg/kg wet	8.94		93.9	63-152			
Perfluorooctanesulfonamide (PFOSA)	1.97	0.19	µg/kg wet	2.32		84.7	61-148			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	2.07	0.19	µg/kg wet	2.32		89.3	63-145			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B374213 - Draft Method 1633										
LCS (B374213-BS1)				Prepared: 05/15/24 Analyzed: 05/18/24						
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	2.09	0.19	µg/kg wet	2.32		90.1	65-139			
N-MeFOSAA (NMeFOSAA)	1.87	0.19	µg/kg wet	2.32		80.7	58-144			V-05
N-EtFOSAA (NEtFOSAA)	1.95	0.19	µg/kg wet	2.32		84.0	59-146			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	23.1	1.9	µg/kg wet	23.2		99.4	71-136			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	23.6	1.9	µg/kg wet	23.2		102	69-137			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	7.94	0.77	µg/kg wet	9.29		85.4	63-144			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	7.70	0.77	µg/kg wet	8.77		87.8	68-146			
9Cl-PF3ONS (F53B Minor)	8.33	0.77	µg/kg wet	8.71		95.6	56-156			
11Cl-PF3OUdS (F53B Major)	8.26	0.77	µg/kg wet	8.77		94.2	46-156			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	16.7	1.9	µg/kg wet	23.2		71.9	62-129			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	92.5	9.7	µg/kg wet	116		79.7	63-134			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	92.3	9.7	µg/kg wet	116		79.5	50-138			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	3.86	0.39	µg/kg wet	4.13		93.4	56-151			
Perfluoro-3-methoxypropanoic acid (PFMPA)	3.86	0.39	µg/kg wet	4.64		83.1	51-145			
Perfluoro-4-methoxybutanoic acid (PFMBA)	3.99	0.39	µg/kg wet	4.64		85.9	55-148			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.47	0.39	µg/kg wet	4.64		96.3	48-161			
Surrogate: 13C4-PFBA	*8.69*		µg/kg wet	9.67		89.8	10-130			
Surrogate: 13C5-PFPeA	*4.43*		µg/kg wet	4.84		91.6	35-150			
Surrogate: 13C5-PFHxA	*2.18*		µg/kg wet	2.42		90.1	55-150			
Surrogate: 13C4-PFHpA	*2.39*		µg/kg wet	2.42		99.0	55-150			
Surrogate: 13C8-PFOA	*2.20*		µg/kg wet	2.42		91.0	60-140			
Surrogate: 13C9-PFNA	*1.11*		µg/kg wet	1.21		92.0	55-140			
Surrogate: 13C6-PFDA	*1.11*		µg/kg wet	1.21		91.4	50-140			
Surrogate: 13C7-PFUnA	*1.15*		µg/kg wet	1.21		94.9	30-140			
Surrogate: 13C2-PFDoA	*1.11*		µg/kg wet	1.21		91.8	10-150			
Surrogate: 13C2-PFTeDA	*1.05*		µg/kg wet	1.21		86.7	10-130			
Surrogate: 13C3-PFBS	*2.24*		µg/kg wet	2.42		92.6	55-150			
Surrogate: 13C3-PFHxS	*2.14*		µg/kg wet	2.42		88.6	55-150			
Surrogate: 13C8-PFOS	*2.27*		µg/kg wet	2.42		93.7	45-140			
Surrogate: 13C2-4:2FTS	*5.14*		µg/kg wet	4.84		106	60-200			
Surrogate: 13C2-6:2FTS	*5.48*		µg/kg wet	4.84		113	60-200			
Surrogate: 13C2-8:2FTS	*5.25*		µg/kg wet	4.84		109	50-200			
Surrogate: 13C8-PFOSA	*2.10*		µg/kg wet	2.42		87.0	30-130			
Surrogate: D3-NMeFOSA	*1.68*		µg/kg wet	2.42		69.6	15-130			
Surrogate: D5-NEtFOSA	*1.70*		µg/kg wet	2.42		70.5	10-130			
Surrogate: D3-NMeFOSAA	*6.36*		µg/kg wet	4.84		131	45-200			
Surrogate: D5-NEtFOSAA	*5.14*		µg/kg wet	4.84		106	10-200			
Surrogate: D7-NMeFOSE	*18.4*		µg/kg wet	24.2		76.0	10-150			
Surrogate: D9-NEtFOSE	*18.2*		µg/kg wet	24.2		75.3	10-150			
Surrogate: 13C3-HFPO-DA	*8.89*		µg/kg wet	9.67		91.9	25-160			
MRL Check (B374213-MRL1)				Prepared: 05/15/24 Analyzed: 05/18/24						
Perfluorobutanoic acid (PFBA)	0.704	0.80	µg/kg wet	0.799		88.1	44-157			J
Perfluoropentanoic acid (PFPeA)	0.303	0.40	µg/kg wet	0.399		75.8	57-148			J

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B374213 - Draft Method 1633										
MRL Check (B374213-MRL1)				Prepared: 05/15/24 Analyzed: 05/18/24						
Perfluorohexanoic acid (PFHxA)	0.155	0.20	µg/kg wet	0.200		77.5	62-149			J
Perfluoroheptanoic acid (PFHpA)	0.146	0.20	µg/kg wet	0.200		73.2	56-150			J
Perfluorooctanoic acid (PFOA)	0.167	0.20	µg/kg wet	0.200		83.5	57-161			J
Perfluorononanoic acid (PFNA)	0.147	0.20	µg/kg wet	0.200		73.5	53-157			J
Perfluorodecanoic acid (PFDA)	0.163	0.20	µg/kg wet	0.200		81.5	43-158			J
Perfluoroundecanoic acid (PFUnA)	0.146	0.20	µg/kg wet	0.200		73.1	50-155			J
Perfluorododecanoic acid (PFDoA)	0.160	0.20	µg/kg wet	0.200		80.0	60-141			J
Perfluorotridecanoic acid (PFTrDA)	0.158	0.20	µg/kg wet	0.200		79.0	52-140			J
Perfluorotetradecanoic acid (PFTeDA)	0.148	0.20	µg/kg wet	0.200		74.1	52-156			J
Perfluorobutanesulfonic acid (PFBS)	0.131	0.20	µg/kg wet	0.177		73.9	63-145			J
Perfluoropentanesulfonic acid (PFPeS)	0.158	0.20	µg/kg wet	0.188		84.3	58-144			J
Perfluorohexanesulfonic acid (PFHxS)	0.152	0.20	µg/kg wet	0.183		83.2	44-158			J
Perfluoroheptanesulfonic acid (PFHpS)	0.142	0.20	µg/kg wet	0.190		74.8	51-150			J
Perfluorooctanesulfonic acid (PFOS)	0.141	0.20	µg/kg wet	0.185		76.4	43-162			J
Perfluorononanesulfonic acid (PFNS)	0.144	0.20	µg/kg wet	0.192		74.7	46-151			J
Perfluorodecanesulfonic acid (PFDS)	0.151	0.20	µg/kg wet	0.193		78.1	50-144			J
Perfluorododecanesulfonic acid (PFDoS)	0.145	0.20	µg/kg wet	0.194		74.9	30-138			J
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	0.583	0.80	µg/kg wet	0.749		77.9	52-158			J
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	0.603	0.80	µg/kg wet	0.759		79.4	48-158			J
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	0.672	0.80	µg/kg wet	0.769		87.4	46-165			J
Perfluorooctanesulfonamide (PFOSA)	0.163	0.20	µg/kg wet	0.200		81.8	47-163			J
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	0.158	0.20	µg/kg wet	0.200		78.9	54-155			J
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	0.159	0.20	µg/kg wet	0.200		79.4	49-156			J
N-MeFOSAA (NMeFOSAA)	0.150	0.20	µg/kg wet	0.200		75.0	32-160			V-05, J
N-EtFOSAA (NEtFOSAA)	0.170	0.20	µg/kg wet	0.200		85.1	51-154			J
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	1.79	2.0	µg/kg wet	2.00		89.7	56-151			J
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	1.83	2.0	µg/kg wet	2.00		91.6	60-147			J
Hexafluoropropylene oxide dimer acid (HFPO-DA)	0.627	0.80	µg/kg wet	0.799		78.6	58-154			J
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.588	0.80	µg/kg wet	0.754		78.0	61-148			J
9Cl-PF3ONS (F53B Minor)	0.636	0.80	µg/kg wet	0.749		84.9	44-167			J
11Cl-PF3OUdS (F53B Major)	0.654	0.80	µg/kg wet	0.754		86.7	36-158			J
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	1.32	2.0	µg/kg wet	2.00		65.9	32-161			J
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	7.13	10	µg/kg wet	9.98		71.4	39-156			J
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	7.14	10	µg/kg wet	9.98		71.5	36-149			J
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	0.337	0.40	µg/kg wet	0.355		94.8	56-144			J
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.344	0.40	µg/kg wet	0.399		86.2	48-150			J
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.343	0.40	µg/kg wet	0.399		86.0	49-154			J
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.397	0.40	µg/kg wet	0.399		99.3	47-160			J
Surrogate: 13C4-PFBA	*8.88*		µg/kg wet	9.98		88.9	10-130			
Surrogate: 13C5-PFPeA	*4.60*		µg/kg wet	4.99		92.2	35-150			
Surrogate: 13C5-PFHxA	*2.24*		µg/kg wet	2.50		89.7	55-150			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B374213 - Draft Method 1633										
MRL Check (B374213-MRL1)				Prepared: 05/15/24 Analyzed: 05/18/24						
Surrogate: 13C4-PFHpA	*2.46*		µg/kg wet	2.50		98.4	55-150			
Surrogate: 13C8-PFOA	*2.23*		µg/kg wet	2.50		89.2	60-140			
Surrogate: 13C9-PFNA	*1.12*		µg/kg wet	1.25		89.8	55-140			
Surrogate: 13C6-PFDA	*1.10*		µg/kg wet	1.25		88.3	50-140			
Surrogate: 13C7-PFUnA	*1.16*		µg/kg wet	1.25		93.1	30-140			
Surrogate: 13C2-PFDoA	*1.07*		µg/kg wet	1.25		85.8	10-150			
Surrogate: 13C2-PFTeDA	*1.07*		µg/kg wet	1.25		86.0	10-130			
Surrogate: 13C3-PFBS	*2.34*		µg/kg wet	2.50		93.8	55-150			
Surrogate: 13C3-PFHxS	*2.18*		µg/kg wet	2.50		87.3	55-150			
Surrogate: 13C8-PFOS	*2.31*		µg/kg wet	2.50		92.4	45-140			
Surrogate: 13C2-4:2FTS	*5.31*		µg/kg wet	4.99		106	60-200			
Surrogate: 13C2-6:2FTS	*5.48*		µg/kg wet	4.99		110	60-200			
Surrogate: 13C2-8:2FTS	*5.33*		µg/kg wet	4.99		107	50-200			
Surrogate: 13C8-PFOSA	*2.16*		µg/kg wet	2.50		86.5	30-130			
Surrogate: D3-NMeFOSA	*1.66*		µg/kg wet	2.50		66.4	15-130			
Surrogate: D5-NEtFOSA	*1.71*		µg/kg wet	2.50		68.5	10-130			
Surrogate: D3-NMeFOSAA	*6.37*		µg/kg wet	4.99		128	45-200			
Surrogate: D5-NEtFOSAA	*5.20*		µg/kg wet	4.99		104	10-200			
Surrogate: D7-NMeFOSE	*18.5*		µg/kg wet	25.0		74.0	10-150			
Surrogate: D9-NEtFOSE	*18.1*		µg/kg wet	25.0		72.7	10-150			
Surrogate: 13C3-HFPO-DA	*9.37*		µg/kg wet	9.98		93.9	25-160			
Matrix Spike (B374213-MS1)	**Source: 24E1437-06**			Prepared: 05/15/24 Analyzed: 05/18/24						
Perfluorobutanoic acid (PFBA)	8.86	0.79	µg/kg dry	9.44	ND	93.8	58-148			
Perfluoropentanoic acid (PFPeA)	4.51	0.39	µg/kg dry	4.72	0.0499	94.6	54-152			
Perfluorohexanoic acid (PFHxA)	2.25	0.20	µg/kg dry	2.36	0.0526	93.0	55-152			
Perfluoroheptanoic acid (PFHpA)	2.22	0.20	µg/kg dry	2.36	0.0484	92.2	54-154			
Perfluorooctanoic acid (PFOA)	2.45	0.20	µg/kg dry	2.36	0.198	95.4	52-161			
Perfluorononanoic acid (PFNA)	2.27	0.20	µg/kg dry	2.36	0.0774	92.9	59-149			
Perfluorodecanoic acid (PFDA)	2.17	0.20	µg/kg dry	2.36	0.0432	90.3	52-147			
Perfluoroundecanoic acid (PFUnA)	2.25	0.20	µg/kg dry	2.36	0.0437	93.3	48-159			
Perfluorododecanoic acid (PFDoA)	2.30	0.20	µg/kg dry	2.36	ND	97.5	64-142			
Perfluorotridecanoic acid (PFTrDA)	2.22	0.20	µg/kg dry	2.36	ND	94.2	49-148			
Perfluorotetradecanoic acid (PFTeDA)	2.24	0.20	µg/kg dry	2.36	ND	94.7	47-161			
Perfluorobutanesulfonic acid (PFBS)	1.86	0.20	µg/kg dry	2.10	ND	88.8	62-144			
Perfluoropentanesulfonic acid (PFPeS)	2.17	0.20	µg/kg dry	2.22	ND	97.9	59-151			
Perfluorohexanesulfonic acid (PFHxS)	2.00	0.20	µg/kg dry	2.16	ND	92.6	57-146			
Perfluoroheptanesulfonic acid (PFHpS)	2.21	0.20	µg/kg dry	2.25	ND	98.4	55-152			
Perfluorooctanesulfonic acid (PFOS)	2.38	0.20	µg/kg dry	2.19	0.248	97.3	58-149			
Perfluorononanesulfonic acid (PFNS)	2.17	0.20	µg/kg dry	2.27	ND	95.3	52-148			
Perfluorodecanesulfonic acid (PFDS)	2.13	0.20	µg/kg dry	2.28	ND	93.3	51-147			
Perfluorododecanesulfonic acid (PFDoS)	1.79	0.20	µg/kg dry	2.29	ND	78.2	36-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	8.32	0.79	µg/kg dry	8.85	ND	94.0	67-146			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	8.29	0.79	µg/kg dry	8.97	ND	92.4	61-151			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	9.22	0.79	µg/kg dry	9.09	ND	101	63-152			
Perfluorooctanesulfonamide (PFOSA)	2.20	0.20	µg/kg dry	2.36	ND	93.1	61-148			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	2.37	0.20	µg/kg dry	2.36	ND	100	63-145			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	2.26	0.20	µg/kg dry	2.36	ND	95.8	65-139			
N-MeFOSAA (NMeFOSAA)	1.98	0.20	µg/kg dry	2.36	ND	84.0	58-144			V-05

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B374213 - Draft Method 1633											
Matrix Spike (B374213-MS1)	**Source: 24E1437-06**			Prepared: 05/15/24 Analyzed: 05/18/24							
N-EtFOSAA (NEtFOSAA)	2.19	0.20	µg/kg dry	2.36	ND	92.8		59-146			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	25.5	2.0	µg/kg dry	23.6	ND	108		71-136			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	25.5	2.0	µg/kg dry	23.6	ND	108		69-137			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	9.18	0.79	µg/kg dry	9.44	ND	97.2		63-144			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	8.72	0.79	µg/kg dry	8.91	ND	97.8		68-146			
9Cl-PF3ONS (F53B Minor)	9.19	0.79	µg/kg dry	8.85	ND	104		56-156			
11Cl-PF3OUdS (F53B Major)	9.10	0.79	µg/kg dry	8.91	ND	102		46-156			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	15.2	2.0	µg/kg dry	23.6	ND	64.6		62-129			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	73.1	9.8	µg/kg dry	118	ND	**61.9**	*	63-134			MS-07A
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	86.6	9.8	µg/kg dry	118	ND	73.4		50-138			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	4.39	0.39	µg/kg dry	4.20	ND	104		56-151			
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.39	0.39	µg/kg dry	4.72	ND	93.0		51-145			
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.55	0.39	µg/kg dry	4.72	ND	96.3		55-148			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.97	0.39	µg/kg dry	4.72	ND	105		48-161			
Surrogate: 13C4-PFBA	*8.56*		µg/kg dry	9.84		87.0		10-130			
Surrogate: 13C5-PFPeA	*4.41*		µg/kg dry	4.92		89.7		35-150			
Surrogate: 13C5-PFHxA	*2.16*		µg/kg dry	2.46		88.0		55-150			
Surrogate: 13C4-PFHpA	*2.39*		µg/kg dry	2.46		97.0		55-150			
Surrogate: 13C8-PFOA	*2.11*		µg/kg dry	2.46		85.8		60-140			
Surrogate: 13C9-PFNA	*1.06*		µg/kg dry	1.23		86.0		55-140			
Surrogate: 13C6-PFDA	*1.11*		µg/kg dry	1.23		90.0		50-140			
Surrogate: 13C7-PFUnA	*1.11*		µg/kg dry	1.23		90.5		30-140			
Surrogate: 13C2-PFDoA	*1.04*		µg/kg dry	1.23		85.0		10-150			
Surrogate: 13C2-PFTeDA	*0.878*		µg/kg dry	1.23		71.4		10-130			
Surrogate: 13C3-PFBS	*2.29*		µg/kg dry	2.46		93.0		55-150			
Surrogate: 13C3-PFHxS	*2.07*		µg/kg dry	2.46		84.1		55-150			
Surrogate: 13C8-PFOS	*2.09*		µg/kg dry	2.46		85.2		45-140			
Surrogate: 13C2-4:2FTS	*5.54*		µg/kg dry	4.92		113		60-200			
Surrogate: 13C2-6:2FTS	*5.52*		µg/kg dry	4.92		112		60-200			
Surrogate: 13C2-8:2FTS	*5.61*		µg/kg dry	4.92		114		50-200			
Surrogate: 13C8-PFOSA	*1.79*		µg/kg dry	2.46		72.6		30-130			
Surrogate: D3-NMeFOSA	*0.903*		µg/kg dry	2.46		36.7		15-130			
Surrogate: D5-NEtFOSA	*0.781*		µg/kg dry	2.46		31.8		10-130			
Surrogate: D3-NMeFOSAA	*5.93*		µg/kg dry	4.92		120		45-200			
Surrogate: D5-NEtFOSAA	*5.08*		µg/kg dry	4.92		103		10-200			
Surrogate: D7-NMeFOSE	*12.7*		µg/kg dry	24.6		51.5		10-150			
Surrogate: D9-NEtFOSE	*11.3*		µg/kg dry	24.6		46.0		10-150			
Surrogate: 13C3-HFPO-DA	*8.75*		µg/kg dry	9.84		88.9		25-160			
Matrix Spike Dup (B374213-MSD1)	**Source: 24E1437-06**			Prepared: 05/15/24 Analyzed: 05/18/24							
Perfluorobutanoic acid (PFBA)	8.76	0.78	µg/kg dry	9.38	ND	93.4		58-148	1.19	20	
Perfluoropentanoic acid (PFPeA)	4.47	0.39	µg/kg dry	4.69	0.0499	94.3		54-152	0.950	20	
Perfluorohexanoic acid (PFHxA)	2.26	0.20	µg/kg dry	2.34	0.0526	94.3		55-152	0.614	25	
Perfluoroheptanoic acid (PFHpA)	2.21	0.20	µg/kg dry	2.34	0.0484	92.0		54-154	0.834	25	
Perfluorooctanoic acid (PFOA)	2.37	0.20	µg/kg dry	2.34	0.198	92.6		52-161	3.36	25	

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes
Batch B374213 - Draft Method 1633												
Matrix Spike Dup (B374213-MSD1)	**Source: 24E1437-06**			Prepared: 05/15/24 Analyzed: 05/18/24								
Perfluorononanoic acid (PFNA)	2.22	0.20	µg/kg dry	2.34	0.0774	91.4		59-149	2.30		25	
Perfluorodecanoic acid (PFDA)	2.11	0.20	µg/kg dry	2.34	0.0432	88.3		52-147	2.92		25	
Perfluoroundecanoic acid (PFUnA)	2.18	0.20	µg/kg dry	2.34	0.0437	91.3		48-159	2.85		30	
Perfluorododecanoic acid (PFDoA)	2.15	0.20	µg/kg dry	2.34	ND	91.6		64-142	6.91		25	
Perfluorotridecanoic acid (PFTrDA)	2.18	0.20	µg/kg dry	2.34	ND	93.0		49-148	1.98		25	
Perfluorotetradecanoic acid (PFTeDA)	2.21	0.20	µg/kg dry	2.34	ND	94.4		47-161	1.05		25	
Perfluorobutanesulfonic acid (PFBS)	1.91	0.20	µg/kg dry	2.08	ND	92.0		62-144	2.81		20	
Perfluoropentanesulfonic acid (PFPeS)	2.11	0.20	µg/kg dry	2.20	ND	95.8		59-151	2.90		25	
Perfluorohexanesulfonic acid (PFHxS)	1.92	0.20	µg/kg dry	2.14	ND	89.4		57-146	4.19		25	
Perfluoroheptanesulfonic acid (PFHpS)	2.16	0.20	µg/kg dry	2.23	ND	96.9		55-152	2.25		25	
Perfluorooctanesulfonic acid (PFOS)	2.22	0.20	µg/kg dry	2.17	0.248	90.6		58-149	7.01		20	
Perfluorononanesulfonic acid (PFNS)	2.04	0.20	µg/kg dry	2.26	ND	90.4		52-148	6.02		25	
Perfluorodecanesulfonic acid (PFDS)	2.06	0.20	µg/kg dry	2.26	ND	90.9		51-147	3.36		25	
Perfluorododecanesulfonic acid (PFDoS)	1.95	0.20	µg/kg dry	2.27	ND	85.9		36-145	8.62		30	
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	8.54	0.78	µg/kg dry	8.79	ND	97.1		67-146	2.55		25	
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	8.01	0.78	µg/kg dry	8.91	ND	90.0		61-151	3.40		30	
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	8.44	0.78	µg/kg dry	9.02	ND	93.6		63-152	8.82		30	
Perfluorooctanesulfonamide (PFOSA)	2.15	0.20	µg/kg dry	2.34	ND	91.5		61-148	2.47		20	
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	2.36	0.20	µg/kg dry	2.34	ND	101		63-145	0.257		25	
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	2.19	0.20	µg/kg dry	2.34	ND	93.6		65-139	3.11		25	
N-MeFOSAA (NMeFOSAA)	1.97	0.20	µg/kg dry	2.34	ND	84.2		58-144	0.574		25	V-05
N-EtFOSAA (NEtFOSAA)	2.14	0.20	µg/kg dry	2.34	ND	91.3		59-146	2.34		25	
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	25.4	2.0	µg/kg dry	23.4	ND	108		71-136	0.442		20	
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	24.9	2.0	µg/kg dry	23.4	ND	106		69-137	2.38		25	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	9.16	0.78	µg/kg dry	9.38	ND	97.7		63-144	0.194		25	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	8.51	0.78	µg/kg dry	8.85	ND	96.2		68-146	2.42		20	
9Cl-PF3ONS (F53B Minor)	9.35	0.78	µg/kg dry	8.79	ND	106		56-156	1.67		30	
11Cl-PF3OUdS (F53B Major)	8.98	0.78	µg/kg dry	8.85	ND	101		46-156	1.30		35	
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	14.8	2.0	µg/kg dry	23.4	ND	63.0		62-129	3.17		20	
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	59.7	9.8	µg/kg dry	117	ND	**51.0**	*	63-134	**20.1**	*	20	MS-07A, R-06
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	75.6	9.8	µg/kg dry	117	ND	64.5		50-138	13.6		25	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	4.40	0.39	µg/kg dry	4.17	ND	105		56-151	0.273		20	
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.42	0.39	µg/kg dry	4.69	ND	94.3		51-145	0.690		25	
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.53	0.39	µg/kg dry	4.69	ND	96.5		55-148	0.522		20	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.86	0.39	µg/kg dry	4.69	ND	104		48-161	2.10		35	
Surrogate: 13C4-PFBA	*8.03*		µg/kg dry	9.77		82.2		10-130				
Surrogate: 13C5-PFPeA	*4.12*		µg/kg dry	4.88		84.4		35-150				
Surrogate: 13C5-PFHxA	*2.01*		µg/kg dry	2.44		82.4		55-150				
Surrogate: 13C4-PFHpA	*2.20*		µg/kg dry	2.44		90.3		55-150				
Surrogate: 13C8-PFOA	*2.04*		µg/kg dry	2.44		83.4		60-140				
Surrogate: 13C9-PFNA	*1.01*		µg/kg dry	1.22		82.4		55-140				

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B374213 - Draft Method 1633										
Matrix Spike Dup (B374213-MSD1)	**Source: 24E1437-06**		Prepared: 05/15/24 Analyzed: 05/18/24							
Surrogate: 13C6-PFDA	*1.03*		µg/kg dry	1.22		84.6	50-140			
Surrogate: 13C7-PFUnA	*1.06*		µg/kg dry	1.22		86.7	30-140			
Surrogate: 13C2-PFDoA	*0.996*		µg/kg dry	1.22		81.6	10-150			
Surrogate: 13C2-PFTeDA	*0.893*		µg/kg dry	1.22		73.1	10-130			
Surrogate: 13C3-PFBS	*2.06*		µg/kg dry	2.44		84.2	55-150			
Surrogate: 13C3-PFHxS	*2.01*		µg/kg dry	2.44		82.2	55-150			
Surrogate: 13C8-PFOS	*1.97*		µg/kg dry	2.44		80.7	45-140			
Surrogate: 13C2-4:2FTS	*5.06*		µg/kg dry	4.88		104	60-200			
Surrogate: 13C2-6:2FTS	*5.23*		µg/kg dry	4.88		107	60-200			
Surrogate: 13C2-8:2FTS	*5.47*		µg/kg dry	4.88		112	50-200			
Surrogate: 13C8-PFOSA	*1.75*		µg/kg dry	2.44		71.6	30-130			
Surrogate: D3-NMeFOSA	*0.932*		µg/kg dry	2.44		38.2	15-130			
Surrogate: D5-NEtFOSA	*0.882*		µg/kg dry	2.44		36.1	10-130			
Surrogate: D3-NMeFOSAA	*5.69*		µg/kg dry	4.88		116	45-200			
Surrogate: D5-NEtFOSAA	*4.69*		µg/kg dry	4.88		96.1	10-200			
Surrogate: D7-NMeFOSE	*13.4*		µg/kg dry	24.4		54.9	10-150			
Surrogate: D9-NEtFOSE	*12.6*		µg/kg dry	24.4		51.6	10-150			
Surrogate: 13C3-HFPO-DA	*8.29*		µg/kg dry	9.77		84.8	25-160			
Batch B374779 - Draft Method 1633										
Blank (B374779-BLK1)			Prepared: 05/21/24 Analyzed: 05/28/24							
Perfluorobutanoic acid (PFBA)	ND	0.80	µg/kg wet							
Perfluoropentanoic acid (PFPeA)	ND	0.40	µg/kg wet							
Perfluorohexanoic acid (PFHxA)	ND	0.20	µg/kg wet							
Perfluoroheptanoic acid (PFHpA)	ND	0.20	µg/kg wet							
Perfluorooctanoic acid (PFOA)	ND	0.20	µg/kg wet							
Perfluorononanoic acid (PFNA)	ND	0.20	µg/kg wet							
Perfluorodecanoic acid (PFDA)	ND	0.20	µg/kg wet							
Perfluoroundecanoic acid (PFUnA)	ND	0.20	µg/kg wet							
Perfluorododecanoic acid (PFDoA)	ND	0.20	µg/kg wet							
Perfluorotridecanoic acid (PFTrDA)	ND	0.20	µg/kg wet							
Perfluorotetradecanoic acid (PFTeDA)	ND	0.20	µg/kg wet							
Perfluorobutanesulfonic acid (PFBS)	ND	0.20	µg/kg wet							
Perfluoropentanesulfonic acid (PFPeS)	ND	0.20	µg/kg wet							
Perfluorohexanesulfonic acid (PFHxS)	ND	0.20	µg/kg wet							
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.20	µg/kg wet							
Perfluorooctanesulfonic acid (PFOS)	ND	0.20	µg/kg wet							
Perfluorononanesulfonic acid (PFNS)	ND	0.20	µg/kg wet							
Perfluorodecanesulfonic acid (PFDS)	ND	0.20	µg/kg wet							
Perfluorododecanesulfonic acid (PFDoS)	ND	0.20	µg/kg wet							
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.80	µg/kg wet							
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	2.0	0.80	µg/kg wet							B-05
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.80	µg/kg wet							
Perfluorooctanesulfonamide (PFOSA)	ND	0.20	µg/kg wet							
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.20	µg/kg wet							
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.20	µg/kg wet							
N-MeFOSAA (NMeFOSAA)	ND	0.20	µg/kg wet							
N-EtFOSAA (NEtFOSAA)	ND	0.20	µg/kg wet							

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B374779 - Draft Method 1633										
Blank (B374779-BLK1)				Prepared: 05/21/24 Analyzed: 05/28/24						
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	2.0	µg/kg wet							
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	2.0	µg/kg wet							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.80	µg/kg wet							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.80	µg/kg wet							
9Cl-PF3ONS (F53B Minor)	ND	0.80	µg/kg wet							
11Cl-PF3OUdS (F53B Major)	ND	0.80	µg/kg wet							
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	2.0	µg/kg wet							
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	10	µg/kg wet							
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	10	µg/kg wet							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.40	µg/kg wet							
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.40	µg/kg wet							
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.40	µg/kg wet							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.40	µg/kg wet							
Surrogate: 13C4-PFBA	*7.60*		µg/kg wet	9.95		76.4	10-130			
Surrogate: 13C5-PFPeA	*3.62*		µg/kg wet	4.98		72.8	35-150			
Surrogate: 13C5-PFHxA	*1.87*		µg/kg wet	2.49		75.1	55-150			
Surrogate: 13C4-PFHpA	*1.85*		µg/kg wet	2.49		74.4	55-150			
Surrogate: 13C8-PFOA	*1.95*		µg/kg wet	2.49		78.6	60-140			
Surrogate: 13C9-PFNA	*0.956*		µg/kg wet	1.24		76.8	55-140			
Surrogate: 13C6-PFDA	*0.971*		µg/kg wet	1.24		78.1	50-140			
Surrogate: 13C7-PFUnA	*0.962*		µg/kg wet	1.24		77.3	30-140			
Surrogate: 13C2-PFDoA	*0.900*		µg/kg wet	1.24		72.4	10-150			
Surrogate: 13C2-PFTeDA	*0.899*		µg/kg wet	1.24		72.3	10-130			
Surrogate: 13C3-PFBS	*1.90*		µg/kg wet	2.49		76.5	55-150			
Surrogate: 13C3-PFHxS	*1.92*		µg/kg wet	2.49		77.2	55-150			
Surrogate: 13C8-PFOS	*1.88*		µg/kg wet	2.49		75.7	45-140			
Surrogate: 13C2-4:2FTS	*3.66*		µg/kg wet	4.98		73.5	60-200			
Surrogate: 13C2-6:2FTS	*3.63*		µg/kg wet	4.98		73.0	60-200			
Surrogate: 13C2-8:2FTS	*3.63*		µg/kg wet	4.98		73.0	50-200			
Surrogate: 13C8-PFOSA	*1.73*		µg/kg wet	2.49		69.7	30-130			
Surrogate: D3-NMeFOSA	*1.35*		µg/kg wet	2.49		54.2	15-130			
Surrogate: D5-NEtFOSA	*1.37*		µg/kg wet	2.49		54.9	10-130			
Surrogate: D3-NMeFOSAA	*3.76*		µg/kg wet	4.98		75.5	45-200			
Surrogate: D5-NEtFOSAA	*3.91*		µg/kg wet	4.98		78.7	10-200			
Surrogate: D7-NMeFOSE	*17.2*		µg/kg wet	24.9		69.3	10-150			
Surrogate: D9-NEtFOSE	*20.8*		µg/kg wet	24.9		83.7	10-150			
Surrogate: 13C3-HFPO-DA	*7.49*		µg/kg wet	9.95		75.3	25-160			
LCS (B374779-BS1)				Prepared: 05/21/24 Analyzed: 05/28/24						
Perfluorobutanoic acid (PFBA)	8.14	0.80	µg/kg wet	9.58		85.0	58-148			
Perfluoropentanoic acid (PFPeA)	4.09	0.40	µg/kg wet	4.79		85.4	54-152			
Perfluorohexanoic acid (PFHxA)	2.04	0.20	µg/kg wet	2.39		85.0	55-152			
Perfluoroheptanoic acid (PFHpA)	2.04	0.20	µg/kg wet	2.39		85.4	54-154			
Perfluorooctanoic acid (PFOA)	2.00	0.20	µg/kg wet	2.39		83.3	52-161			
Perfluorononanoic acid (PFNA)	2.05	0.20	µg/kg wet	2.39		85.5	59-149			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B374779 - Draft Method 1633										
LCS (B374779-BS1)				Prepared: 05/21/24 Analyzed: 05/28/24						
Perfluorodecanoic acid (PFDA)	2.01	0.20	µg/kg wet	2.39		83.9	52-147			
Perfluoroundecanoic acid (PFUnA)	2.04	0.20	µg/kg wet	2.39		85.3	48-159			
Perfluorododecanoic acid (PFDoA)	2.07	0.20	µg/kg wet	2.39		86.3	64-142			
Perfluorotridecanoic acid (PFTrDA)	1.99	0.20	µg/kg wet	2.39		82.9	49-148			
Perfluorotetradecanoic acid (PFTeDA)	2.08	0.20	µg/kg wet	2.39		86.9	47-161			
Perfluorobutanesulfonic acid (PFBS)	1.82	0.20	µg/kg wet	2.12		85.8	62-144			
Perfluoropentanesulfonic acid (PFPeS)	1.96	0.20	µg/kg wet	2.25		86.9	59-151			
Perfluorohexanesulfonic acid (PFHxS)	1.80	0.20	µg/kg wet	2.19		82.3	57-146			
Perfluoroheptanesulfonic acid (PFHpS)	1.95	0.20	µg/kg wet	2.28		85.6	55-152			
Perfluorooctanesulfonic acid (PFOS)	1.78	0.20	µg/kg wet	2.22		80.3	58-149			
Perfluorononanesulfonic acid (PFNS)	2.00	0.20	µg/kg wet	2.30		86.8	52-148			
Perfluorodecanesulfonic acid (PFDS)	1.94	0.20	µg/kg wet	2.31		84.0	51-147			
Perfluorododecanesulfonic acid (PFDoS)	1.93	0.20	µg/kg wet	2.32		83.0	36-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	7.77	0.80	µg/kg wet	8.98		86.6	67-146			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	8.52	0.80	µg/kg wet	9.10		93.7	61-151			B
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	8.06	0.80	µg/kg wet	9.22		87.4	63-152			
Perfluorooctanesulfonamide (PFOSA)	2.03	0.20	µg/kg wet	2.39		84.8	61-148			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	2.14	0.20	µg/kg wet	2.39		89.3	63-145			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	2.11	0.20	µg/kg wet	2.39		88.3	65-139			
N-MeFOSAA (NMeFOSAA)	2.14	0.20	µg/kg wet	2.39		89.5	58-144			
N-EtFOSAA (NEtFOSAA)	1.88	0.20	µg/kg wet	2.39		78.5	59-146			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	21.6	2.0	µg/kg wet	23.9		90.2	71-136			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	22.2	2.0	µg/kg wet	23.9		92.8	69-137			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	8.43	0.80	µg/kg wet	9.58		88.0	63-144			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	7.91	0.80	µg/kg wet	9.04		87.5	68-146			
9Cl-PF3ONS (F53B Minor)	8.43	0.80	µg/kg wet	8.98		93.9	56-156			
11Cl-PF3OUdS (F53B Major)	8.34	0.80	µg/kg wet	9.04		92.3	46-156			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	15.7	2.0	µg/kg wet	23.9		65.7	62-129			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	89.8	10	µg/kg wet	120		75.0	63-134			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	89.7	10	µg/kg wet	120		75.0	50-138			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	3.95	0.40	µg/kg wet	4.26		92.6	56-151			
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.26	0.40	µg/kg wet	4.79		89.0	51-145			
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.16	0.40	µg/kg wet	4.79		86.8	55-148			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.06	0.40	µg/kg wet	4.79		84.8	48-161			
Surrogate: 13C4-PFBA	*8.13*		µg/kg wet	9.98		81.5	10-130			
Surrogate: 13C5-PFPeA	*4.06*		µg/kg wet	4.99		81.4	35-150			
Surrogate: 13C5-PFHxA	*2.09*		µg/kg wet	2.49		83.8	55-150			
Surrogate: 13C4-PFHpA	*2.08*		µg/kg wet	2.49		83.3	55-150			
Surrogate: 13C8-PFOA	*2.14*		µg/kg wet	2.49		85.8	60-140			
Surrogate: 13C9-PFNA	*1.02*		µg/kg wet	1.25		81.8	55-140			
Surrogate: 13C6-PFDA	*1.06*		µg/kg wet	1.25		84.9	50-140			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B374779 - Draft Method 1633										
LCS (B374779-BS1)				Prepared: 05/21/24 Analyzed: 05/28/24						
Surrogate: 13C7-PFUnA	*1.02*		µg/kg wet	1.25		81.7	30-140			
Surrogate: 13C2-PFDoA	*1.03*		µg/kg wet	1.25		83.0	10-150			
Surrogate: 13C2-PFTeDA	*0.984*		µg/kg wet	1.25		78.9	10-130			
Surrogate: 13C3-PFBS	*1.99*		µg/kg wet	2.49		79.7	55-150			
Surrogate: 13C3-PFHxS	*2.04*		µg/kg wet	2.49		81.6	55-150			
Surrogate: 13C8-PFOS	*2.08*		µg/kg wet	2.49		83.4	45-140			
Surrogate: 13C2-4:2FTS	*3.83*		µg/kg wet	4.99		76.7	60-200			
Surrogate: 13C2-6:2FTS	*3.98*		µg/kg wet	4.99		79.7	60-200			
Surrogate: 13C2-8:2FTS	*3.90*		µg/kg wet	4.99		78.2	50-200			
Surrogate: 13C8-PFOSA	*2.00*		µg/kg wet	2.49		80.1	30-130			
Surrogate: D3-NMeFOSA	*1.48*		µg/kg wet	2.49		59.4	15-130			
Surrogate: D5-NEtFOSA	*1.41*		µg/kg wet	2.49		56.6	10-130			
Surrogate: D3-NMeFOSAA	*4.09*		µg/kg wet	4.99		82.0	45-200			
Surrogate: D5-NEtFOSAA	*4.29*		µg/kg wet	4.99		86.0	10-200			
Surrogate: D7-NMeFOSE	*17.9*		µg/kg wet	24.9		71.6	10-150			
Surrogate: D9-NEtFOSE	*18.3*		µg/kg wet	24.9		73.3	10-150			
Surrogate: 13C3-HFPO-DA	*8.07*		µg/kg wet	9.98		80.9	25-160			
MRL Check (B374779-MRL1)				Prepared: 05/21/24 Analyzed: 05/28/24						
Perfluorobutanoic acid (PFBA)	0.556	0.80	µg/kg wet	0.797		69.8	44-157			J
Perfluoropentanoic acid (PFPeA)	0.274	0.40	µg/kg wet	0.399		68.8	57-148			J
Perfluorohexanoic acid (PFHxA)	0.144	0.20	µg/kg wet	0.199		72.3	62-149			J
Perfluoroheptanoic acid (PFHpA)	0.136	0.20	µg/kg wet	0.199		68.4	56-150			J
Perfluorooctanoic acid (PFOA)	0.172	0.20	µg/kg wet	0.199		86.2	57-161			J
Perfluorononanoic acid (PFNA)	0.146	0.20	µg/kg wet	0.199		73.4	53-157			J
Perfluorodecanoic acid (PFDA)	0.148	0.20	µg/kg wet	0.199		74.0	43-158			J
Perfluoroundecanoic acid (PFUnA)	0.144	0.20	µg/kg wet	0.199		72.2	50-155			J
Perfluorododecanoic acid (PFDoA)	0.155	0.20	µg/kg wet	0.199		77.9	60-141			J
Perfluorotridecanoic acid (PFTrDA)	0.137	0.20	µg/kg wet	0.199		68.8	52-140			J
Perfluorotetradecanoic acid (PFTeDA)	0.147	0.20	µg/kg wet	0.199		73.8	52-156			J
Perfluorobutanesulfonic acid (PFBS)	0.139	0.20	µg/kg wet	0.177		78.7	63-145			J
Perfluoropentanesulfonic acid (PFPeS)	0.147	0.20	µg/kg wet	0.187		78.4	58-144			J
Perfluorohexanesulfonic acid (PFHxS)	0.141	0.20	µg/kg wet	0.182		77.1	44-158			J
Perfluoroheptanesulfonic acid (PFHpS)	0.147	0.20	µg/kg wet	0.190		77.2	51-150			J
Perfluorooctanesulfonic acid (PFOS)	0.149	0.20	µg/kg wet	0.185		80.4	43-162			J
Perfluorononanesulfonic acid (PFNS)	0.146	0.20	µg/kg wet	0.192		76.1	46-151			J
Perfluorodecanesulfonic acid (PFDS)	0.136	0.20	µg/kg wet	0.192		70.9	50-144			J
Perfluorododecanesulfonic acid (PFDoS)	0.147	0.20	µg/kg wet	0.193		76.3	30-138			J
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	0.559	0.80	µg/kg wet	0.747		74.8	52-158			J
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	0.770	0.80	µg/kg wet	0.757		102	48-158			B, J
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	0.531	0.80	µg/kg wet	0.767		69.2	46-165			J
Perfluorooctanesulfonamide (PFOSA)	0.145	0.20	µg/kg wet	0.199		72.6	47-163			J
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	0.146	0.20	µg/kg wet	0.199		73.4	54-155			J
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	0.149	0.20	µg/kg wet	0.199		74.6	49-156			J
N-MeFOSAA (NMeFOSAA)	0.147	0.20	µg/kg wet	0.199		73.8	32-160			J
N-EtFOSAA (NEtFOSAA)	0.129	0.20	µg/kg wet	0.199		64.9	51-154			J
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	1.51	2.0	µg/kg wet	1.99		75.5	56-151			J
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	1.52	2.0	µg/kg wet	1.99		76.4	60-147			J

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B374779 - Draft Method 1633										
MRL Check (B374779-MRL1)				Prepared: 05/21/24 Analyzed: 05/28/24						
Hexafluoropropylene oxide dimer acid (HFPO-DA)	0.608	0.80	µg/kg wet	0.797		76.2	58-154			J
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.547	0.80	µg/kg wet	0.752		72.8	61-148			J
9Cl-PF3ONS (F53B Minor)	0.579	0.80	µg/kg wet	0.747		77.4	44-167			J
11Cl-PF3OUdS (F53B Major)	0.580	0.80	µg/kg wet	0.752		77.1	36-158			J
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	1.28	2.0	µg/kg wet	1.99		64.3	32-161			J
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	7.04	10	µg/kg wet	9.97		70.6	39-156			J
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	6.56	10	µg/kg wet	9.97		65.9	36-149			J
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	0.275	0.40	µg/kg wet	0.355		77.5	56-144			J
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.319	0.40	µg/kg wet	0.399		80.0	48-150			J
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.302	0.40	µg/kg wet	0.399		75.7	49-154			J
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.294	0.40	µg/kg wet	0.399		73.6	47-160			J
Surrogate: 13C4-PFBA	*8.45*		µg/kg wet	9.97		84.8	10-130			
Surrogate: 13C5-PFPeA	*4.08*		µg/kg wet	4.98		81.9	35-150			
Surrogate: 13C5-PFHxA	*2.05*		µg/kg wet	2.49		82.3	55-150			
Surrogate: 13C4-PFHpA	*2.07*		µg/kg wet	2.49		83.0	55-150			
Surrogate: 13C8-PFOA	*2.11*		µg/kg wet	2.49		84.5	60-140			
Surrogate: 13C9-PFNA	*1.02*		µg/kg wet	1.25		82.1	55-140			
Surrogate: 13C6-PFDA	*1.07*		µg/kg wet	1.25		85.8	50-140			
Surrogate: 13C7-PFUnA	*1.06*		µg/kg wet	1.25		85.1	30-140			
Surrogate: 13C2-PFDoA	*0.993*		µg/kg wet	1.25		79.7	10-150			
Surrogate: 13C2-PFTeDA	*0.974*		µg/kg wet	1.25		78.1	10-130			
Surrogate: 13C3-PFBS	*2.02*		µg/kg wet	2.49		81.1	55-150			
Surrogate: 13C3-PFHxS	*2.03*		µg/kg wet	2.49		81.4	55-150			
Surrogate: 13C8-PFOS	*2.03*		µg/kg wet	2.49		81.6	45-140			
Surrogate: 13C2-4:2FTS	*3.80*		µg/kg wet	4.98		76.3	60-200			
Surrogate: 13C2-6:2FTS	*3.81*		µg/kg wet	4.98		76.6	60-200			
Surrogate: 13C2-8:2FTS	*3.80*		µg/kg wet	4.98		76.2	50-200			
Surrogate: 13C8-PFOSA	*1.90*		µg/kg wet	2.49		76.2	30-130			
Surrogate: D3-NMeFOSA	*1.49*		µg/kg wet	2.49		59.7	15-130			
Surrogate: D5-NEtFOSA	*1.49*		µg/kg wet	2.49		59.8	10-130			
Surrogate: D3-NMeFOSAA	*4.23*		µg/kg wet	4.98		84.8	45-200			
Surrogate: D5-NEtFOSAA	*4.27*		µg/kg wet	4.98		85.6	10-200			
Surrogate: D7-NMeFOSE	*18.0*		µg/kg wet	24.9		72.3	10-150			
Surrogate: D9-NEtFOSE	*19.7*		µg/kg wet	24.9		79.2	10-150			
Surrogate: 13C3-HFPO-DA	*8.24*		µg/kg wet	9.97		82.7	25-160			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B374053 - SW-846 3546										
Blank (B374053-BLK1)				Prepared: 05/10/24 Analyzed: 05/14/24						
alpha-Chlordane	ND	0.0050	mg/Kg wet							
alpha-Chlordane [2C]	ND	0.0050	mg/Kg wet							
gamma-Chlordane	ND	0.0050	mg/Kg wet							
gamma-Chlordane [2C]	ND	0.0050	mg/Kg wet							
Aldrin	ND	0.0050	mg/Kg wet							
Aldrin [2C]	ND	0.0050	mg/Kg wet							
alpha-BHC	ND	0.0050	mg/Kg wet							
alpha-BHC [2C]	ND	0.0050	mg/Kg wet							
beta-BHC	ND	0.0050	mg/Kg wet							
beta-BHC [2C]	ND	0.0050	mg/Kg wet							
delta-BHC	ND	0.0050	mg/Kg wet							
delta-BHC [2C]	ND	0.0050	mg/Kg wet							
gamma-BHC (Lindane)	ND	0.0020	mg/Kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0020	mg/Kg wet							
4,4'-DDD	ND	0.0040	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDT	ND	0.0040	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0040	mg/Kg wet							
Dieldrin	ND	0.0040	mg/Kg wet							
Dieldrin [2C]	ND	0.0040	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate [2C]	ND	0.0080	mg/Kg wet							
Endrin	ND	0.0080	mg/Kg wet							
Endrin [2C]	ND	0.0080	mg/Kg wet							
Endrin Aldehyde	ND	0.0080	mg/Kg wet							
Endrin Aldehyde [2C]	ND	0.0080	mg/Kg wet							
Endrin Ketone	ND	0.0080	mg/Kg wet							
Endrin Ketone [2C]	ND	0.0080	mg/Kg wet							
Heptachlor	ND	0.0050	mg/Kg wet							
Heptachlor [2C]	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0050	mg/Kg wet							
Methoxychlor	ND	0.050	mg/Kg wet							R-05
Methoxychlor [2C]	ND	0.050	mg/Kg wet							
Toxaphene	ND	0.10	mg/Kg wet							
Toxaphene [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.132*		mg/Kg wet	0.199		66.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.138*		mg/Kg wet	0.199		69.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.119*		mg/Kg wet	0.199		59.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.123*		mg/Kg wet	0.199		61.8	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B374053 - SW-846 3546										
LCS (B374053-BS1)				Prepared: 05/10/24 Analyzed: 05/14/24						
alpha-Chlordane	0.088	0.0050	mg/Kg wet	0.0995		88.7	40-140			
alpha-Chlordane [2C]	0.093	0.0050	mg/Kg wet	0.0995		93.5	40-140			
gamma-Chlordane	0.084	0.0050	mg/Kg wet	0.0995		84.9	40-140			
gamma-Chlordane [2C]	0.093	0.0050	mg/Kg wet	0.0995		93.5	40-140			
Aldrin	0.086	0.0050	mg/Kg wet	0.0995		86.7	40-140			
Aldrin [2C]	0.090	0.0050	mg/Kg wet	0.0995		90.9	40-140			
alpha-BHC	0.085	0.0050	mg/Kg wet	0.0995		85.4	40-140			
alpha-BHC [2C]	0.086	0.0050	mg/Kg wet	0.0995		86.3	40-140			
beta-BHC	0.081	0.0050	mg/Kg wet	0.0995		81.5	40-140			
beta-BHC [2C]	0.084	0.0050	mg/Kg wet	0.0995		83.9	40-140			
delta-BHC	0.085	0.0050	mg/Kg wet	0.0995		85.2	40-140			
delta-BHC [2C]	0.086	0.0050	mg/Kg wet	0.0995		86.7	40-140			
gamma-BHC (Lindane)	0.082	0.0020	mg/Kg wet	0.0995		82.8	40-140			
gamma-BHC (Lindane) [2C]	0.087	0.0020	mg/Kg wet	0.0995		87.4	40-140			
4,4'-DDD	0.093	0.0040	mg/Kg wet	0.0995		93.7	40-140			
4,4'-DDD [2C]	0.099	0.0040	mg/Kg wet	0.0995		99.1	40-140			V-06
4,4'-DDE	0.092	0.0040	mg/Kg wet	0.0995		92.5	40-140			
4,4'-DDE [2C]	0.096	0.0040	mg/Kg wet	0.0995		96.4	40-140			
4,4'-DDT	0.091	0.0040	mg/Kg wet	0.0995		91.6	40-140			
4,4'-DDT [2C]	0.092	0.0040	mg/Kg wet	0.0995		92.1	40-140			
Dieldrin	0.090	0.0040	mg/Kg wet	0.0995		90.6	40-140			
Dieldrin [2C]	0.095	0.0040	mg/Kg wet	0.0995		95.7	40-140			
Endosulfan I	0.090	0.0050	mg/Kg wet	0.0995		90.0	40-140			
Endosulfan I [2C]	0.094	0.0050	mg/Kg wet	0.0995		94.9	40-140			
Endosulfan II	0.088	0.0080	mg/Kg wet	0.0995		88.0	40-140			
Endosulfan II [2C]	0.095	0.0080	mg/Kg wet	0.0995		95.5	40-140			
Endosulfan Sulfate	0.070	0.0080	mg/Kg wet	0.0995		70.7	40-140			
Endosulfan Sulfate [2C]	0.089	0.0080	mg/Kg wet	0.0995		89.2	40-140			
Endrin	0.095	0.0080	mg/Kg wet	0.0995		95.4	40-140			
Endrin [2C]	0.098	0.0080	mg/Kg wet	0.0995		99.0	40-140			
Endrin Aldehyde	0.074	0.0080	mg/Kg wet	0.0995		74.4	40-140			
Endrin Aldehyde [2C]	0.083	0.0080	mg/Kg wet	0.0995		83.7	40-140			
Endrin Ketone	0.086	0.0080	mg/Kg wet	0.0995		86.6	40-140			
Endrin Ketone [2C]	0.088	0.0080	mg/Kg wet	0.0995		88.8	40-140			
Heptachlor	0.088	0.0050	mg/Kg wet	0.0995		88.9	40-140			
Heptachlor [2C]	0.091	0.0050	mg/Kg wet	0.0995		91.3	40-140			
Heptachlor Epoxide	0.087	0.0050	mg/Kg wet	0.0995		87.7	40-140			
Heptachlor Epoxide [2C]	0.091	0.0050	mg/Kg wet	0.0995		91.2	40-140			
Methoxychlor	0.074	0.050	mg/Kg wet	0.0995		74.3	40-140			R-05
Methoxychlor [2C]	0.089	0.050	mg/Kg wet	0.0995		89.5	40-140			
Surrogate: Decachlorobiphenyl	*0.175*		mg/Kg wet	0.199		88.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.188*		mg/Kg wet	0.199		94.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.150*		mg/Kg wet	0.199		75.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.155*		mg/Kg wet	0.199		77.7	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD		RPD Limit	Notes
Batch B374053 - SW-846 3546											
LCS Dup (B374053-BSD1)				Prepared: 05/10/24 Analyzed: 05/14/24							
alpha-Chlordane	0.11	0.0050	mg/Kg wet	0.0997		106	40-140	18.2		30	
alpha-Chlordane [2C]	0.11	0.0050	mg/Kg wet	0.0997		112	40-140	18.6		30	
gamma-Chlordane	0.10	0.0050	mg/Kg wet	0.0997		100	40-140	16.6		30	
gamma-Chlordane [2C]	0.11	0.0050	mg/Kg wet	0.0997		112	40-140	18.2		30	
Aldrin	0.10	0.0050	mg/Kg wet	0.0997		104	40-140	18.0		30	
Aldrin [2C]	0.11	0.0050	mg/Kg wet	0.0997		109	40-140	18.3		30	
alpha-BHC	0.10	0.0050	mg/Kg wet	0.0997		104	40-140	20.0		30	
alpha-BHC [2C]	0.11	0.0050	mg/Kg wet	0.0997		106	40-140	20.3		30	
beta-BHC	0.094	0.0050	mg/Kg wet	0.0997		94.5	40-140	15.0		30	
beta-BHC [2C]	0.099	0.0050	mg/Kg wet	0.0997		99.4	40-140	17.1		30	
delta-BHC	0.10	0.0050	mg/Kg wet	0.0997		102	40-140	17.9		30	
delta-BHC [2C]	0.10	0.0050	mg/Kg wet	0.0997		103	40-140	17.6		30	
gamma-BHC (Lindane)	0.099	0.0020	mg/Kg wet	0.0997		99.8	40-140	18.7		30	
gamma-BHC (Lindane) [2C]	0.10	0.0020	mg/Kg wet	0.0997		105	40-140	18.8		30	
4,4'-DDD	0.12	0.0040	mg/Kg wet	0.0997		116	40-140	21.7		30	
4,4'-DDD [2C]	0.12	0.0040	mg/Kg wet	0.0997		122	40-140	21.3		30	V-06
4,4'-DDE	0.11	0.0040	mg/Kg wet	0.0997		113	40-140	20.4		30	
4,4'-DDE [2C]	0.12	0.0040	mg/Kg wet	0.0997		118	40-140	20.4		30	
4,4'-DDT	0.12	0.0040	mg/Kg wet	0.0997		117	40-140	24.3		30	
4,4'-DDT [2C]	0.12	0.0040	mg/Kg wet	0.0997		119	40-140	26.0		30	
Dieldrin	0.11	0.0040	mg/Kg wet	0.0997		110	40-140	19.1		30	
Dieldrin [2C]	0.12	0.0040	mg/Kg wet	0.0997		117	40-140	20.0		30	
Endosulfan I	0.11	0.0050	mg/Kg wet	0.0997		108	40-140	18.3		30	
Endosulfan I [2C]	0.11	0.0050	mg/Kg wet	0.0997		114	40-140	18.3		30	
Endosulfan II	0.11	0.0080	mg/Kg wet	0.0997		108	40-140	20.4		30	
Endosulfan II [2C]	0.12	0.0080	mg/Kg wet	0.0997		116	40-140	19.9		30	
Endosulfan Sulfate	0.089	0.0080	mg/Kg wet	0.0997		89.1	40-140	23.3		30	
Endosulfan Sulfate [2C]	0.11	0.0080	mg/Kg wet	0.0997		112	40-140	22.4		30	
Endrin	0.12	0.0080	mg/Kg wet	0.0997		119	40-140	21.9		30	
Endrin [2C]	0.12	0.0080	mg/Kg wet	0.0997		123	40-140	21.5		30	
Endrin Aldehyde	0.085	0.0080	mg/Kg wet	0.0997		85.1	40-140	13.6		30	
Endrin Aldehyde [2C]	0.095	0.0080	mg/Kg wet	0.0997		95.1	40-140	13.0		30	
Endrin Ketone	0.11	0.0080	mg/Kg wet	0.0997		106	40-140	20.7		30	
Endrin Ketone [2C]	0.11	0.0080	mg/Kg wet	0.0997		110	40-140	21.2		30	
Heptachlor	0.11	0.0050	mg/Kg wet	0.0997		106	40-140	17.8		30	
Heptachlor [2C]	0.11	0.0050	mg/Kg wet	0.0997		109	40-140	18.0		30	
Heptachlor Epoxide	0.11	0.0050	mg/Kg wet	0.0997		106	40-140	19.1		30	
Heptachlor Epoxide [2C]	0.11	0.0050	mg/Kg wet	0.0997		110	40-140	19.1		30	
Methoxychlor	0.10	0.050	mg/Kg wet	0.0997		100	40-140	**30.1**	*	30	R-05
Methoxychlor [2C]	0.11	0.050	mg/Kg wet	0.0997		113	40-140	23.8		30	
Surrogate: Decachlorobiphenyl	*0.209*		mg/Kg wet	0.199		105	30-150				
Surrogate: Decachlorobiphenyl [2C]	*0.220*		mg/Kg wet	0.199		110	30-150				
Surrogate: Tetrachloro-m-xylene	*0.186*		mg/Kg wet	0.199		93.2	30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*0.191*		mg/Kg wet	0.199		96.0	30-150				

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B374053 - SW-846 3546										
Matrix Spike (B374053-MS1)	**Source: 24E1437-06**			Prepared: 05/10/24 Analyzed: 05/14/24						
Aldrin	0.10	0.0066	mg/Kg dry	0.133	ND	77.7	30-150			
Aldrin [2C]	0.11	0.0066	mg/Kg dry	0.133	ND	82.0	30-150			
alpha-BHC	0.11	0.0066	mg/Kg dry	0.133	ND	82.1	30-150			
alpha-BHC [2C]	0.11	0.0066	mg/Kg dry	0.133	ND	83.2	30-150			
beta-BHC	0.093	0.0066	mg/Kg dry	0.133	ND	69.9	30-150			
beta-BHC [2C]	0.098	0.0066	mg/Kg dry	0.133	ND	73.6	30-150			
delta-BHC	0.099	0.0066	mg/Kg dry	0.133	ND	75.0	30-150			
delta-BHC [2C]	0.10	0.0066	mg/Kg dry	0.133	ND	75.6	30-150			
gamma-BHC (Lindane)	0.10	0.0027	mg/Kg dry	0.133	ND	76.7	30-150			
gamma-BHC (Lindane) [2C]	0.11	0.0027	mg/Kg dry	0.133	ND	81.4	30-150			
4,4'-DDD	0.12	0.0053	mg/Kg dry	0.133	ND	94.0	30-150			
4,4'-DDD [2C]	0.13	0.0053	mg/Kg dry	0.133	ND	99.4	30-150			V-06
4,4'-DDE	0.11	0.0053	mg/Kg dry	0.133	ND	81.4	30-150			
4,4'-DDE [2C]	0.11	0.0053	mg/Kg dry	0.133	ND	86.1	30-150			
4,4'-DDT	0.080	0.0053	mg/Kg dry	0.133	ND	60.4	30-150			
4,4'-DDT [2C]	0.081	0.0053	mg/Kg dry	0.133	ND	60.9	30-150			
Dieldrin	0.11	0.0053	mg/Kg dry	0.133	ND	81.3	30-150			
Dieldrin [2C]	0.11	0.0053	mg/Kg dry	0.133	ND	86.4	30-150			
Endosulfan I	0.11	0.0066	mg/Kg dry	0.133	ND	80.4	30-150			
Endosulfan I [2C]	0.11	0.0066	mg/Kg dry	0.133	ND	85.5	30-150			
Endosulfan II	0.10	0.011	mg/Kg dry	0.133	ND	77.1	30-150			
Endosulfan II [2C]	0.12	0.011	mg/Kg dry	0.133	ND	86.9	30-150			
Endosulfan Sulfate	0.081	0.011	mg/Kg dry	0.133	ND	60.8	30-150			
Endosulfan Sulfate [2C]	0.10	0.011	mg/Kg dry	0.133	ND	77.6	30-150			
Endrin	0.11	0.011	mg/Kg dry	0.133	ND	86.0	30-150			
Endrin [2C]	0.12	0.011	mg/Kg dry	0.133	ND	88.6	30-150			
Endrin Aldehyde	0.069	0.011	mg/Kg dry	0.133	ND	52.1	30-150			
Endrin Aldehyde [2C]	0.076	0.011	mg/Kg dry	0.133	ND	57.4	30-150			
Endrin Ketone	0.099	0.011	mg/Kg dry	0.133	ND	74.5	30-150			
Endrin Ketone [2C]	0.10	0.011	mg/Kg dry	0.133	ND	77.8	30-150			
Heptachlor	0.11	0.0066	mg/Kg dry	0.133	ND	80.1	30-150			
Heptachlor [2C]	0.11	0.0066	mg/Kg dry	0.133	ND	82.5	30-150			
Heptachlor Epoxide	0.10	0.0066	mg/Kg dry	0.133	ND	78.6	30-150			
Heptachlor Epoxide [2C]	0.11	0.0066	mg/Kg dry	0.133	ND	80.9	30-150			
Methoxychlor	0.069	0.066	mg/Kg dry	0.133	ND	52.3	30-150			R-05
Methoxychlor [2C]	0.083	0.066	mg/Kg dry	0.133	ND	62.6	30-150			
Surrogate: Decachlorobiphenyl	*0.191*		mg/Kg dry	0.265		71.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.203*		mg/Kg dry	0.265		76.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.194*		mg/Kg dry	0.265		73.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.200*		mg/Kg dry	0.265		75.3	30-150			
Matrix Spike Dup (B374053-MSD1)	**Source: 24E1437-06**			Prepared: 05/10/24 Analyzed: 05/14/24						
Aldrin	0.12	0.0066	mg/Kg dry	0.132	ND	88.8	30-150	13.1	30	
Aldrin [2C]	0.12	0.0066	mg/Kg dry	0.132	ND	94.1	30-150	13.5	30	
alpha-BHC	0.12	0.0066	mg/Kg dry	0.132	ND	88.7	30-150	7.46	30	
alpha-BHC [2C]	0.12	0.0066	mg/Kg dry	0.132	ND	90.4	30-150	8.06	30	
beta-BHC	0.10	0.0066	mg/Kg dry	0.132	ND	76.0	30-150	8.12	30	
beta-BHC [2C]	0.11	0.0066	mg/Kg dry	0.132	ND	80.1	30-150	8.32	30	
delta-BHC	0.10	0.0066	mg/Kg dry	0.132	ND	77.6	30-150	3.25	30	
delta-BHC [2C]	0.10	0.0066	mg/Kg dry	0.132	ND	77.8	30-150	2.74	30	
gamma-BHC (Lindane)	0.11	0.0026	mg/Kg dry	0.132	ND	82.0	30-150	6.49	30	
gamma-BHC (Lindane) [2C]	0.12	0.0026	mg/Kg dry	0.132	ND	87.4	30-150	6.92	30	

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B374053 - SW-846 3546										
Matrix Spike Dup (B374053-MSD1)	**Source: 24E1437-06**			Prepared: 05/10/24 Analyzed: 05/14/24						
4,4'-DDD	0.14	0.0053	mg/Kg dry	0.132	ND	103	30-150	8.75	30	
4,4'-DDD [2C]	0.15	0.0053	mg/Kg dry	0.132	ND	111	30-150	10.5	30	V-06
4,4'-DDE	0.12	0.0053	mg/Kg dry	0.132	ND	93.0	30-150	13.1	30	
4,4'-DDE [2C]	0.13	0.0053	mg/Kg dry	0.132	ND	98.7	30-150	13.5	30	
4,4'-DDT	0.096	0.0053	mg/Kg dry	0.132	ND	72.4	30-150	17.8	30	
4,4'-DDT [2C]	0.097	0.0053	mg/Kg dry	0.132	ND	73.2	30-150	18.1	30	
Dieldrin	0.12	0.0053	mg/Kg dry	0.132	ND	88.6	30-150	8.49	30	
Dieldrin [2C]	0.13	0.0053	mg/Kg dry	0.132	ND	94.9	30-150	9.20	30	
Endosulfan I	0.12	0.0066	mg/Kg dry	0.132	ND	87.6	30-150	8.38	30	
Endosulfan I [2C]	0.12	0.0066	mg/Kg dry	0.132	ND	93.1	30-150	8.36	30	
Endosulfan II	0.11	0.011	mg/Kg dry	0.132	ND	82.0	30-150	5.99	30	
Endosulfan II [2C]	0.12	0.011	mg/Kg dry	0.132	ND	92.1	30-150	5.60	30	
Endosulfan Sulfate	0.082	0.011	mg/Kg dry	0.132	ND	61.7	30-150	1.25	30	
Endosulfan Sulfate [2C]	0.10	0.011	mg/Kg dry	0.132	ND	78.9	30-150	1.50	30	
Endrin	0.13	0.011	mg/Kg dry	0.132	ND	95.0	30-150	9.73	30	
Endrin [2C]	0.13	0.011	mg/Kg dry	0.132	ND	98.0	30-150	9.83	30	
Endrin Aldehyde	0.083	0.011	mg/Kg dry	0.132	ND	63.1	30-150	18.9	30	
Endrin Aldehyde [2C]	0.093	0.011	mg/Kg dry	0.132	ND	70.3	30-150	20.1	30	
Endrin Ketone	0.10	0.011	mg/Kg dry	0.132	ND	79.0	30-150	5.71	30	
Endrin Ketone [2C]	0.11	0.011	mg/Kg dry	0.132	ND	83.9	30-150	7.27	30	
Heptachlor	0.12	0.0066	mg/Kg dry	0.132	ND	87.7	30-150	8.94	30	
Heptachlor [2C]	0.12	0.0066	mg/Kg dry	0.132	ND	90.2	30-150	8.82	30	
Heptachlor Epoxide	0.12	0.0066	mg/Kg dry	0.132	ND	90.0	30-150	13.3	30	
Heptachlor Epoxide [2C]	0.12	0.0066	mg/Kg dry	0.132	ND	92.6	30-150	13.3	30	
Methoxychlor	0.081	0.066	mg/Kg dry	0.132	ND	61.4	30-150	15.9	30	R-05
Methoxychlor [2C]	0.096	0.066	mg/Kg dry	0.132	ND	72.2	30-150	14.0	30	
Surrogate: Decachlorobiphenyl	*0.235*		mg/Kg dry	0.265		88.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.252*		mg/Kg dry	0.265		95.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.222*		mg/Kg dry	0.265		83.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.227*		mg/Kg dry	0.265		85.8	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B374045 - SW-846 3546										
Blank (B374045-BLK1)				Prepared: 05/10/24 Analyzed: 05/11/24						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.136*		mg/Kg wet	0.199		68.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.143*		mg/Kg wet	0.199		71.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.132*		mg/Kg wet	0.199		66.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.146*		mg/Kg wet	0.199		73.2	30-150			
LCS (B374045-BS1)				Prepared: 05/10/24 Analyzed: 05/11/24						
Aroclor-1016	0.14	0.020	mg/Kg wet	0.198		70.3	40-140			
Aroclor-1016 [2C]	0.14	0.020	mg/Kg wet	0.198		72.4	40-140			
Aroclor-1260	0.14	0.020	mg/Kg wet	0.198		68.9	40-140			
Aroclor-1260 [2C]	0.14	0.020	mg/Kg wet	0.198		69.2	40-140			
Surrogate: Decachlorobiphenyl	*0.161*		mg/Kg wet	0.198		81.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.172*		mg/Kg wet	0.198		86.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.162*		mg/Kg wet	0.198		81.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.180*		mg/Kg wet	0.198		90.7	30-150			
LCS Dup (B374045-BSD1)				Prepared: 05/10/24 Analyzed: 05/11/24						
Aroclor-1016	0.13	0.020	mg/Kg wet	0.198		65.3	40-140	7.27	30	
Aroclor-1016 [2C]	0.13	0.020	mg/Kg wet	0.198		67.3	40-140	7.33	30	
Aroclor-1260	0.13	0.020	mg/Kg wet	0.198		63.8	40-140	7.67	30	
Aroclor-1260 [2C]	0.13	0.020	mg/Kg wet	0.198		64.2	40-140	7.58	30	
Surrogate: Decachlorobiphenyl	*0.145*		mg/Kg wet	0.198		73.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.155*		mg/Kg wet	0.198		78.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.149*		mg/Kg wet	0.198		75.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.166*		mg/Kg wet	0.198		83.4	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B374045 - SW-846 3546										
Matrix Spike (B374045-MS1)	**Source: 24E1437-06**			Prepared: 05/10/24 Analyzed: 05/14/24						
Aroclor-1016	0.19	0.10	mg/Kg dry	0.259	ND	75.1	40-140			
Aroclor-1016 [2C]	0.19	0.10	mg/Kg dry	0.259	ND	74.5	40-140			
Aroclor-1260	0.19	0.10	mg/Kg dry	0.259	ND	75.0	40-140			
Aroclor-1260 [2C]	0.19	0.10	mg/Kg dry	0.259	ND	73.0	40-140			
Surrogate: Decachlorobiphenyl	*0.208*		mg/Kg dry	0.259		80.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.210*		mg/Kg dry	0.259		81.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.214*		mg/Kg dry	0.259		82.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.221*		mg/Kg dry	0.259		85.3	30-150			
Matrix Spike Dup (B374045-MSD1)	**Source: 24E1437-06**			Prepared: 05/10/24 Analyzed: 05/14/24						
Aroclor-1016	0.21	0.10	mg/Kg dry	0.259	ND	81.1	40-140	7.76	30	
Aroclor-1016 [2C]	0.21	0.10	mg/Kg dry	0.259	ND	80.4	40-140	7.54	30	
Aroclor-1260	0.21	0.10	mg/Kg dry	0.259	ND	81.4	40-140	8.28	30	
Aroclor-1260 [2C]	0.20	0.10	mg/Kg dry	0.259	ND	77.8	40-140	6.31	30	
Surrogate: Decachlorobiphenyl	*0.225*		mg/Kg dry	0.259		87.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.227*		mg/Kg dry	0.259		87.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.228*		mg/Kg dry	0.259		88.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.237*		mg/Kg dry	0.259		91.5	30-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B374725 - SW-846 3050B											
Blank (B374725-BLK1)				Prepared: 05/17/24 Analyzed: 05/22/24							
Aluminum	ND	16	mg/Kg wet								
Arsenic	ND	3.3	mg/Kg wet								
Barium	ND	1.6	mg/Kg wet								
Beryllium	ND	0.16	mg/Kg wet								
Cadmium	ND	0.33	mg/Kg wet								
Calcium	ND	16	mg/Kg wet								
Chromium	ND	0.66	mg/Kg wet								
Cobalt	ND	1.6	mg/Kg wet								
Copper	ND	1.3	mg/Kg wet								
Iron	ND	16	mg/Kg wet								
Lead	ND	0.49	mg/Kg wet								
Magnesium	ND	16	mg/Kg wet								
Manganese	ND	0.33	mg/Kg wet								
Nickel	ND	0.66	mg/Kg wet								
Potassium	ND	160	mg/Kg wet								
Selenium	ND	3.3	mg/Kg wet								
Silver	ND	0.33	mg/Kg wet								
Sodium	ND	160	mg/Kg wet								
Vanadium	ND	0.66	mg/Kg wet								
Zinc	ND	0.66	mg/Kg wet								
Blank (B374725-BLK2)				Prepared: 05/17/24 Analyzed: 05/27/24							
Antimony	ND	1.6	mg/Kg wet								
Thallium	ND	1.6	mg/Kg wet								
LCS (B374725-BS1)				Prepared: 05/17/24 Analyzed: 05/22/24							
Aluminum	5600	50	mg/Kg wet	6780		82.7		52.9-147.2			
Arsenic	298	9.9	mg/Kg wet	311		95.9		81.7-118.3			
Barium	332	5.0	mg/Kg wet	304		109		82.8-117.2			
Beryllium	178	0.50	mg/Kg wet	169		105		82.8-117.2			
Cadmium	216	0.99	mg/Kg wet	212		102		82.5-117.9			
Calcium	5320	50	mg/Kg wet	5170		103		82-117.8			
Chromium	192	2.0	mg/Kg wet	180		107		81.1-118.3			
Cobalt	84.8	5.0	mg/Kg wet	81.6		104		83.2-116.9			
Copper	222	4.0	mg/Kg wet	205		108		82.9-117.1			
Iron	6070	50	mg/Kg wet	6510		93.3		57.8-142.2			
Lead	92.9	1.5	mg/Kg wet	92.8		100		81.8-118.5			
Magnesium	1650	50	mg/Kg wet	1700		96.9		75.3-124.1			
Manganese	640	0.99	mg/Kg wet	531		**121**	*	80.8-119.2			L-07
Nickel	319	2.0	mg/Kg wet	313		102		82.4-117.6			
Potassium	1240	500	mg/Kg wet	1370		90.2		72.3-127.7			
Selenium	167	9.9	mg/Kg wet	165		101		80.6-119.4			
Silver	86.5	0.99	mg/Kg wet	82.4		105		79.5-120.4			
Sodium	498	500	mg/Kg wet	486		102		74.3-125.7			
Vanadium	115	2.0	mg/Kg wet	103		112		78-122.3			
Zinc	176	2.0	mg/Kg wet	166		106		80.1-120.5			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B374725 - SW-846 3050B											
LCS (B374725-BS2)				Prepared: 05/17/24 Analyzed: 05/27/24							
Antimony	106	5.0	mg/Kg wet	127		83.1		2-200.8			
Thallium	214	5.0	mg/Kg wet	205		104		81-119.5			
LCS Dup (B374725-BSD1)				Prepared: 05/17/24 Analyzed: 05/22/24							
Aluminum	5410	50	mg/Kg wet	6780		79.8		52.9-147.2	3.51	30	
Arsenic	279	10	mg/Kg wet	311		89.6		81.7-118.3	6.74	30	
Barium	298	5.0	mg/Kg wet	304		98.0		82.8-117.2	10.9	20	
Beryllium	164	0.50	mg/Kg wet	169		97.0		82.8-117.2	7.95	30	
Cadmium	202	1.0	mg/Kg wet	212		95.2		82.5-117.9	6.69	20	
Calcium	5090	50	mg/Kg wet	5170		98.5		82-117.8	4.34	30	
Chromium	179	2.0	mg/Kg wet	180		99.4		81.1-118.3	6.92	30	
Cobalt	80.1	5.0	mg/Kg wet	81.6		98.1		83.2-116.9	5.76	20	
Copper	208	4.0	mg/Kg wet	205		101		82.9-117.1	6.63	30	
Iron	5800	50	mg/Kg wet	6510		89.1		57.8-142.2	4.60	30	
Lead	88.5	1.5	mg/Kg wet	92.8		95.4		81.8-118.5	4.89	30	
Magnesium	1600	50	mg/Kg wet	1700		93.9		75.3-124.1	3.06	30	
Manganese	528	1.0	mg/Kg wet	531		99.4		80.8-119.2	19.3	30	
Nickel	300	2.0	mg/Kg wet	313		95.8		82.4-117.6	6.08	30	
Potassium	1180	500	mg/Kg wet	1370		86.2		72.3-127.7	4.54	30	
Selenium	155	10	mg/Kg wet	165		93.7		80.6-119.4	7.81	30	
Silver	83.2	1.0	mg/Kg wet	82.4		101		79.5-120.4	3.89	30	
Sodium	467	500	mg/Kg wet	486		96.1		74.3-125.7	6.36	30	J
Vanadium	106	2.0	mg/Kg wet	103		103		78-122.3	8.40	30	
Zinc	169	2.0	mg/Kg wet	166		102		80.1-120.5	3.55	30	
LCS Dup (B374725-BSD2)				Prepared: 05/17/24 Analyzed: 05/27/24							
Antimony	104	5.0	mg/Kg wet	127		82.0		2-200.8	1.27	30	
Thallium	203	5.0	mg/Kg wet	205		99.0		81-119.5	5.11	30	
Matrix Spike (B374725-MS1)	**Source: 24E1437-06**			Prepared: 05/17/24 Analyzed: 05/22/24							
Aluminum	15900	22	mg/Kg dry	21.9	15600	**1330**	*	75-125			MS-19
Arsenic	23.6	4.4	mg/Kg dry	21.9	5.42	83.2		75-125			
Barium	105	2.2	mg/Kg dry	21.9	90.6	**67.4**	*	75-125			MS-22
Beryllium	20.8	0.22	mg/Kg dry	21.9	0.692	91.6		75-125			
Cadmium	20.3	0.44	mg/Kg dry	21.9	0.262	91.7		75-125			
Calcium	8170	22	mg/Kg dry	175	5270	**1660**	*	75-125			MS-19
Chromium	36.7	0.88	mg/Kg dry	21.9	17.1	89.3		75-125			
Cobalt	29.9	2.2	mg/Kg dry	21.9	11.3	84.8		75-125			
Copper	78.9	1.8	mg/Kg dry	43.8	33.7	103		75-125			
Lead	57.9	0.66	mg/Kg dry	21.9	41.0	77.1		75-125			
Magnesium	4420	22	mg/Kg dry	175	4240	104		75-125			
Manganese	571	0.44	mg/Kg dry	21.9	565	**30.2**	*	75-125			MS-19
Nickel	43.0	0.88	mg/Kg dry	21.9	24.2	86.0		75-125			
Potassium	1010	220	mg/Kg dry	175	887	**71.9**	*	75-125			MS-22
Selenium	17.4	4.4	mg/Kg dry	21.9	ND	79.3		75-125			
Silver	19.9	0.44	mg/Kg dry	21.9	ND	90.7		75-125			
Sodium	215	220	mg/Kg dry	175	ND	123		75-125			J
Vanadium	41.8	0.88	mg/Kg dry	21.9	21.9	90.7		75-125			
Zinc	124	0.88	mg/Kg dry	43.8	88.0	82.6		75-125			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes
Batch B374725 - SW-846 3050B												
Matrix Spike (B374725-MS3)	**Source: 24E1437-06**			Prepared: 05/17/24 Analyzed: 05/23/24								
Iron	31800	220	mg/Kg dry	175	29300	**1420**	*	75-125				MS-19
Matrix Spike (B374725-MS4)	**Source: 24E1437-06**			Prepared: 05/17/24 Analyzed: 05/27/24								
Antimony	1.97	2.2	mg/Kg dry	21.9	ND	**9.00**	*	75-125				Z-01, J
Thallium	22.9	2.2	mg/Kg dry	21.9	ND	104		75-125				
Matrix Spike Dup (B374725-MSD1)	**Source: 24E1437-06**			Prepared: 05/17/24 Analyzed: 05/22/24								
Aluminum	16300	22	mg/Kg dry	21.8	15600	**3570**	*	75-125	3.02		35	MS-19
Arsenic	23.8	4.4	mg/Kg dry	21.8	5.42	84.3		75-125	0.814		35	
Barium	110	2.2	mg/Kg dry	21.8	90.6	86.6		75-125	3.88		35	
Beryllium	21.9	0.22	mg/Kg dry	21.8	0.692	97.1		75-125	5.43		35	
Cadmium	21.1	0.44	mg/Kg dry	21.8	0.262	95.3		75-125	3.57		35	
Calcium	3920	22	mg/Kg dry	175	5270	**-774**	*	75-125	**70.4**	*	35	MS-19
Chromium	38.9	0.87	mg/Kg dry	21.8	17.1	99.6		75-125	5.83		35	
Cobalt	31.3	2.2	mg/Kg dry	21.8	11.3	91.8		75-125	4.85		35	
Copper	81.0	1.7	mg/Kg dry	43.7	33.7	108		75-125	2.67		35	
Lead	58.5	0.66	mg/Kg dry	21.8	41.0	80.3		75-125	1.13		35	
Magnesium	4410	22	mg/Kg dry	175	4240	98.8		75-125	0.218		35	
Manganese	529	0.44	mg/Kg dry	21.8	565	**-164**	*	75-125	7.73		35	MS-19
Nickel	44.3	0.87	mg/Kg dry	21.8	24.2	92.0		75-125	2.92		35	
Potassium	1040	220	mg/Kg dry	175	887	87.8		75-125	2.70		35	
Selenium	18.7	4.4	mg/Kg dry	21.8	ND	85.6		75-125	7.46		35	
Silver	20.4	0.44	mg/Kg dry	21.8	ND	93.5		75-125	2.84		35	
Sodium	221	220	mg/Kg dry	175	ND	**126**	*	75-125	2.69		35	MS-22
Vanadium	43.9	0.87	mg/Kg dry	21.8	21.9	101		75-125	4.99		35	
Zinc	131	0.87	mg/Kg dry	43.7	88.0	98.3		75-125	5.31		35	
Matrix Spike Dup (B374725-MSD3)	**Source: 24E1437-06**			Prepared: 05/17/24 Analyzed: 05/23/24								
Iron	31400	220	mg/Kg dry	175	29300	**1230**	*	75-125	1.08		35	MS-19
Matrix Spike Dup (B374725-MSD4)	**Source: 24E1437-06**			Prepared: 05/17/24 Analyzed: 05/27/24								
Antimony	1.92	2.2	mg/Kg dry	21.8	ND	**8.80**	*	75-125	2.41		35	Z-01, J
Thallium	22.3	2.2	mg/Kg dry	21.8	ND	102		75-125	2.41		35	
Post Spike (B374725-PS1)	**Source: 24E1437-06**			Prepared: 05/17/24 Analyzed: 05/22/24								
Aluminum	334		mg/L	2.00	347	**-631**	*	75-125				MS-19
Antimony	1.79		mg/L	2.00	-0.0255	89.4		75-125				Z-01
Arsenic	1.85		mg/L	2.00	0.121	86.5		75-125				
Barium	3.78		mg/L	2.00	2.02	88.0		75-125				
Beryllium	1.89		mg/L	2.00	0.0154	94.0		75-125				
Cadmium	1.90		mg/L	2.00	0.00584	94.7		75-125				
Calcium	128		mg/L	16.0	117	**63.4**	*	75-125				MS-19
Chromium	2.24		mg/L	2.00	0.382	92.8		75-125				
Cobalt	2.01		mg/L	2.00	0.252	87.9		75-125				
Copper	4.86		mg/L	4.00	0.750	103		75-125				
Lead	2.55		mg/L	2.00	0.914	81.7		75-125				
Magnesium	106		mg/L	16.0	94.5	**69.6**	*	75-125				MS-19
Manganese	13.7		mg/L	2.00	12.6	**56.5**	*	75-125				MS-19
Nickel	2.25		mg/L	2.00	0.540	85.6		75-125				
Potassium	33.8		mg/L	16.0	19.8	87.7		75-125				
Selenium	1.79		mg/L	2.00	-0.0139	89.5		75-125				
Silver	1.99		mg/L	2.00	-0.0255	99.3		75-125				
Sodium	16.2		mg/L	16.0	1.18	93.7		75-125				
Vanadium	2.40		mg/L	2.00	0.489	95.6		75-125				

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B374725 - SW-846 3050B											
Post Spike (B374725-PS1)	**Source: 24E1437-06**			Prepared: 05/17/24 Analyzed: 05/22/24							
Zinc	5.42		mg/L	4.00	1.96	86.6		75-125			
Post Spike (B374725-PS3)	**Source: 24E1437-06**			Prepared: 05/17/24 Analyzed: 05/23/24							
Iron	798		mg/L	16.0	653	**908**	*	75-125			MS-19
Dilution Check (B374725-SRL1)	**Source: 24E1437-06**			Prepared: 05/17/24 Analyzed: 05/22/24							
Aluminum	16500	110	mg/Kg dry		15600				5.63	20	
Arsenic	5.53	22	mg/Kg dry		5.42				2.05	20	J
Barium	99.1	11	mg/Kg dry		90.6				8.90	20	
Beryllium	0.734	1.1	mg/Kg dry		0.692				5.87	20	J
Cadmium	ND	2.2	mg/Kg dry		ND					20	
Calcium	5810	110	mg/Kg dry		5270				9.74	20	
Chromium	18.2	4.5	mg/Kg dry		17.1				5.83	20	
Cobalt	12.8	11	mg/Kg dry		11.3				12.9	20	
Copper	35.6	9.0	mg/Kg dry		33.7				5.55	20	
Lead	48.6	3.4	mg/Kg dry		41.0				17.0	20	
Magnesium	4700	110	mg/Kg dry		4240				10.3	20	
Manganese	631	2.2	mg/Kg dry		565				11.2	20	
Nickel	27.6	4.5	mg/Kg dry		24.2				13.1	20	
Potassium	952	1100	mg/Kg dry		887				7.07	20	J
Selenium	ND	22	mg/Kg dry		ND					20	
Silver	ND	2.2	mg/Kg dry		ND					20	
Sodium	ND	1100	mg/Kg dry		ND					20	
Vanadium	23.5	4.5	mg/Kg dry		21.9				6.73	20	
Zinc	100	4.5	mg/Kg dry		88.0				13.1	20	
Batch B375006 - SW-846 7471											
Blank (B375006-BLK1)				Prepared: 05/21/24 Analyzed: 05/23/24							
Mercury	ND	0.022	mg/Kg wet								
LCS (B375006-BS1)				Prepared: 05/21/24 Analyzed: 05/23/24							
Mercury	11.8	1.9	mg/Kg wet	11.9		99.3		67.1-131.9			
LCS Dup (B375006-BSD1)				Prepared: 05/21/24 Analyzed: 05/23/24							
Mercury	12.1	1.9	mg/Kg wet	11.9		102		67.1-131.9	2.76	20	
Matrix Spike (B375006-MS1)	**Source: 24E1437-06**			Prepared: 05/21/24 Analyzed: 05/23/24							
Mercury	0.496	0.032	mg/Kg dry	0.432	0.0568	102		80-120			
Matrix Spike Dup (B375006-MSD1)	**Source: 24E1437-06**			Prepared: 05/21/24 Analyzed: 05/23/24							
Mercury	0.504	0.034	mg/Kg dry	0.457	0.0568	97.8		80-120	1.67	20	

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B374146 - SW-846 9010C										
Blank (B374146-BLK1)				Prepared: 05/13/24 Analyzed: 05/14/24						
Cyanide	ND	0.49	mg/Kg wet							
LCS (B374146-BS1)				Prepared: 05/13/24 Analyzed: 05/14/24						
Cyanide	150	4.9	mg/Kg wet	130		117	80-120			
LCS Dup (B374146-BSD1)				Prepared: 05/13/24 Analyzed: 05/14/24						
Cyanide	120	5.0	mg/Kg wet	130		94.2	80-120	21.0	30	
Matrix Spike (B374146-MS1)	**Source: 24E1437-06**			Prepared: 05/13/24 Analyzed: 05/14/24						
Cyanide	20	0.66	mg/Kg dry	19.9	ND	102	75-125			
Matrix Spike Dup (B374146-MSD1)	**Source: 24E1437-06**			Prepared: 05/13/24 Analyzed: 05/14/24						
Cyanide	18	0.61	mg/Kg dry	18.2	ND	101	75-125	9.48	35	
Batch B374255 - % Solids										
Duplicate (B374255-DUP1)	**Source: 24E1437-06**			Prepared & Analyzed: 05/13/24						
% Solids	73.0		% Wt		72.5			0.662	10	
Batch B374399 - SW-846 9010C										
Blank (B374399-BLK1)				Prepared: 05/15/24 Analyzed: 05/16/24						
Cyanide	ND	0.48	mg/Kg wet							
LCS (B374399-BS1)				Prepared: 05/15/24 Analyzed: 05/16/24						
Cyanide	ND	5.0	mg/Kg wet	131		*	80-120			L-07
LCS Dup (B374399-BSD1)				Prepared: 05/15/24 Analyzed: 05/16/24						
Cyanide	150	5.0	mg/Kg wet	131		114	80-120		30	
Matrix Spike (B374399-MS1)	**Source: 24E1437-04**			Prepared: 05/15/24 Analyzed: 05/16/24						
Cyanide	18	0.58	mg/Kg dry	17.5	ND	106	75-125			
Matrix Spike Dup (B374399-MSD1)	**Source: 24E1437-04**			Prepared: 05/15/24 Analyzed: 05/16/24						
Cyanide	17	0.57	mg/Kg dry	17.1	ND	98.2	75-125	9.33	35	

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BREAKDOWN REPORT

Lab Sample ID:	**S104592-PEM1**	**Analyzed:**	**05/14/2024**

Column Number: **1**

Analyte	% Breakdown
4,4'-DDT [1]	1.18
Endrin [1]	3.31

Column Number: **2**

Analyte	% Breakdown
4,4'-DDT [2]	0.99
Endrin [2]	3.31

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

CG-2

Lab Sample ID: 24E1437-02

Date(s) Analyzed: 05/14/2024 05/14/2024

Instrument ID (1): ECD 9

Instrument ID (2): ECD 9

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	0.089	
	2	0.000	0.000	0.000	0.075	17.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

B1A

Lab Sample ID: 24E1437-04

Date(s) Analyzed: 05/14/2024 05/14/2024

Instrument ID (1): ECD 8

Instrument ID (2): ECD 8

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDT	1	5.745	-0.030	0.030	0.021	
	2	5.729	-0.030	0.030	0.021	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

SB4A

Lab Sample ID: 24E1437-12

Date(s) Analyzed: 05/14/2024 05/14/2024

Instrument ID (1): ECD 9

Instrument ID (2): ECD 9

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	1.1	
	2	0.000	0.000	0.000	1.1	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

SB7

Lab Sample ID: 24E1437-17

Date(s) Analyzed: 05/14/2024 05/14/2024

Instrument ID (1): ECD 9

Instrument ID (2): ECD 9

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	0.082	
	2	0.000	0.000	0.000	0.091	10.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

DUP

Lab Sample ID: 24E1437-19

Date(s) Analyzed: 05/14/2024 05/14/2024

Instrument ID (1): ECD 9

Instrument ID (2): ECD 9

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	0.11	
	2	0.000	0.000	0.000	0.092	17.8

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B374045-BS1

Date(s) Analyzed: 05/11/2024 05/11/2024

Instrument ID (1): ECD 9

Instrument ID (2): ECD 9

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.14	
	2	0.000	0.000	0.000	0.14	0.0
Aroclor-1260	1	0.000	0.000	0.000	0.14	
	2	0.000	0.000	0.000	0.14	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B374045-BSD1 Date(s) Analyzed: 05/11/2024 05/11/2024

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.13	
	2	0.000	0.000	0.000	0.13	0.0
Aroclor-1260	1	0.000	0.000	0.000	0.13	
	2	0.000	0.000	0.000	0.13	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B374045-MS1 Date(s) Analyzed: 05/14/2024 05/14/2024

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.19	
	2	0.000	0.000	0.000	0.19	0.0
Aroclor-1260	1	0.000	0.000	0.000	0.19	
	2	0.000	0.000	0.000	0.19	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B374045-MSD1 Date(s) Analyzed: 05/14/2024 05/14/2024

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.21	
	2	0.000	0.000	0.000	0.21	0.0
Aroclor-1260	1	0.000	0.000	0.000	0.21	
	2	0.000	0.000	0.000	0.20	4.9

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B374053-BS1 Date(s) Analyzed: 05/14/2024 05/14/2024

Instrument ID (1): ECD 8A Instrument ID (2): ECD 8B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	5.516	-0.030	0.030	0.093	
	2	5.474	-0.030	0.030	0.099	6.3
4,4'-DDE	1	5.025	-0.030	0.030	0.092	
	2	5.005	-0.030	0.030	0.096	4.3
4,4'-DDT	1	5.746	-0.030	0.030	0.091	
	2	5.731	-0.030	0.030	0.092	1.1
Aldrin	1	4.258	-0.030	0.030	0.086	
	2	4.134	-0.030	0.030	0.090	4.6
alpha-BHC	1	3.363	-0.030	0.030	0.085	
	2	3.251	-0.030	0.030	0.086	1.2
alpha-Chlordane	1	4.964	-0.030	0.030	0.088	
	2	4.862	-0.030	0.030	0.093	5.5
beta-BHC	1	3.692	-0.030	0.030	0.081	
	2	3.599	-0.030	0.030	0.084	3.6
delta-BHC	1	3.838	-0.030	0.030	0.085	
	2	3.829	-0.030	0.030	0.086	1.2
Dieldrin	1	5.275	-0.030	0.030	0.090	
	2	5.127	-0.030	0.030	0.095	5.4
Endosulfan I	1	5.078	-0.030	0.030	0.090	
	2	4.905	-0.030	0.030	0.094	4.4
Endosulfan II	1	5.651	-0.030	0.030	0.088	
	2	5.545	-0.030	0.030	0.095	7.7
Endosulfan Sulfate	1	6.302	-0.030	0.030	0.070	
	2	6.037	-0.030	0.030	0.089	23.9
Endrin	1	5.467	-0.030	0.030	0.095	
	2	5.372	-0.030	0.030	0.098	3.1
Endrin Aldehyde	1	5.989	-0.030	0.030	0.074	
	2	5.823	-0.030	0.030	0.083	11.5
Endrin Ketone	1	6.487	-0.030	0.030	0.086	
	2	6.400	-0.030	0.030	0.088	2.3
gamma-BHC (Lindane)	1	3.623	-0.030	0.030	0.082	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B374053-BS1 Date(s) Analyzed: 05/14/2024 05/14/2024

Instrument ID (1): ECD 8A Instrument ID (2): ECD 8B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	3.531	-0.030	0.030	0.087	5.9
gamma-Chlordane	1	4.855	-0.030	0.030	0.084	
	2	4.744	-0.030	0.030	0.093	9.0
Heptachlor	1	4.755	-0.030	0.030	0.088	
	2	4.592	-0.030	0.030	0.091	2.2
Heptachlor Epoxide	1	4.011	-0.030	0.030	0.087	
	2	3.879	-0.030	0.030	0.091	4.5
Methoxychlor	1	6.118	-0.030	0.030	0.074	
	2	6.250	-0.030	0.030	0.089	18.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B374053-BSD1 Date(s) Analyzed: 05/14/2024 05/14/2024

Instrument ID (1): ECD 8A Instrument ID (2): ECD 8B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	5.516	-0.030	0.030	0.12	
	2	5.474	-0.030	0.030	0.12	0.0
4,4'-DDE	1	5.025	-0.030	0.030	0.11	
	2	5.005	-0.030	0.030	0.12	8.7
4,4'-DDT	1	5.746	-0.030	0.030	0.12	
	2	5.731	-0.030	0.030	0.12	0.0
Aldrin	1	4.258	-0.030	0.030	0.10	
	2	4.134	-0.030	0.030	0.11	9.5
alpha-BHC	1	3.364	-0.030	0.030	0.10	
	2	3.252	-0.030	0.030	0.11	9.5
alpha-Chlordane	1	4.964	-0.030	0.030	0.11	
	2	4.862	-0.030	0.030	0.11	0.0
beta-BHC	1	3.692	-0.030	0.030	0.094	
	2	3.599	-0.030	0.030	0.099	5.2
delta-BHC	1	3.838	-0.030	0.030	0.10	
	2	3.830	-0.030	0.030	0.10	0.0
Dieldrin	1	5.275	-0.030	0.030	0.11	
	2	5.127	-0.030	0.030	0.12	8.7
Endosulfan I	1	5.078	-0.030	0.030	0.11	
	2	4.905	-0.030	0.030	0.11	0.0
Endosulfan II	1	5.651	-0.030	0.030	0.11	
	2	5.545	-0.030	0.030	0.12	8.7
Endosulfan Sulfate	1	6.302	-0.030	0.030	0.089	
	2	6.038	-0.030	0.030	0.11	21.1
Endrin	1	5.467	-0.030	0.030	0.12	
	2	5.373	-0.030	0.030	0.12	0.0
Endrin Aldehyde	1	5.989	-0.030	0.030	0.085	
	2	5.823	-0.030	0.030	0.095	11.1
Endrin Ketone	1	6.486	-0.030	0.030	0.11	
	2	6.400	-0.030	0.030	0.11	0.0
gamma-BHC (Lindane)	1	3.623	-0.030	0.030	0.099	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B374053-BSD1 Date(s) Analyzed: 05/14/2024 05/14/2024

Instrument ID (1): ECD 8A Instrument ID (2): ECD 8B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	3.532	-0.030	0.030	0.10	0.0
gamma-Chlordane	1	4.855	-0.030	0.030	0.10	
	2	4.744	-0.030	0.030	0.11	9.5
Heptachlor	1	4.754	-0.030	0.030	0.11	
	2	4.592	-0.030	0.030	0.11	0.0
Heptachlor Epoxide	1	4.011	-0.030	0.030	0.11	
	2	3.879	-0.030	0.030	0.11	0.0
Methoxychlor	1	6.118	-0.030	0.030	0.10	
	2	6.250	-0.030	0.030	0.11	9.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

Matrix Spike

Lab Sample ID: B374053-MS1 Date(s) Analyzed: 05/14/2024 05/14/2024

Instrument ID (1): ECD 8A Instrument ID (2): ECD 8B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	5.516	-0.030	0.030	0.12	
	2	5.473	-0.030	0.030	0.13	0.0
4,4'-DDE	1	5.025	-0.030	0.030	0.11	
	2	5.004	-0.030	0.030	0.11	0.0
4,4'-DDT	1	5.746	-0.030	0.030	0.080	
	2	5.730	-0.030	0.030	0.081	1.2
Aldrin	1	4.258	-0.030	0.030	0.10	
	2	4.134	-0.030	0.030	0.11	9.5
alpha-BHC	1	3.363	-0.030	0.030	0.11	
	2	3.251	-0.030	0.030	0.11	0.0
beta-BHC	1	3.692	-0.030	0.030	0.093	
	2	3.598	-0.030	0.030	0.098	5.2
delta-BHC	1	3.838	-0.030	0.030	0.099	
	2	3.829	-0.030	0.030	0.10	0.0
Dieldrin	1	5.275	-0.030	0.030	0.11	
	2	5.126	-0.030	0.030	0.11	0.0
Endosulfan I	1	5.078	-0.030	0.030	0.11	
	2	4.905	-0.030	0.030	0.11	0.0
Endosulfan II	1	5.650	-0.030	0.030	0.10	
	2	5.545	-0.030	0.030	0.12	18.2
Endosulfan Sulfate	1	6.302	-0.030	0.030	0.081	
	2	6.036	-0.030	0.030	0.10	21.0
Endrin	1	5.467	-0.030	0.030	0.11	
	2	5.372	-0.030	0.030	0.12	8.7
Endrin Aldehyde	1	5.989	5.960	6.020	0.069	
	2	5.822	5.792	5.852	0.076	9.7
Endrin Ketone	1	6.487	-0.030	0.030	0.099	
	2	6.400	-0.030	0.030	0.10	1.0
gamma-BHC (Lindane)	1	3.623	-0.030	0.030	0.10	
	2	3.531	-0.030	0.030	0.11	9.5
Heptachlor	1	4.755	-0.030	0.030	0.11	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

Matrix Spike

Lab Sample ID: B374053-MS1 Date(s) Analyzed: 05/14/2024 05/14/2024

Instrument ID (1): ECD 8A Instrument ID (2): ECD 8B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	4.592	-0.030	0.030	0.11	0.0
Heptachlor Epoxide	1	4.011	-0.030	0.030	0.10	
	2	3.879	-0.030	0.030	0.11	9.5
Methoxychlor	1	6.118	-0.030	0.030	0.069	
	2	6.249	-0.030	0.030	0.083	18.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

Matrix Spike Dup

Lab Sample ID: B374053-MSD1 Date(s) Analyzed: 05/14/2024 05/14/2024

Instrument ID (1): ECD 8A Instrument ID (2): ECD 8B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	5.516	-0.030	0.030	0.14	
	2	5.474	-0.030	0.030	0.15	6.9
4,4'-DDE	1	5.025	-0.030	0.030	0.12	
	2	5.005	-0.030	0.030	0.13	8.0
4,4'-DDT	1	5.747	-0.030	0.030	0.096	
	2	5.730	-0.030	0.030	0.097	1.0
Aldrin	1	4.258	-0.030	0.030	0.12	
	2	4.134	-0.030	0.030	0.12	0.0
alpha-BHC	1	3.363	-0.030	0.030	0.12	
	2	3.251	-0.030	0.030	0.12	0.0
beta-BHC	1	3.692	-0.030	0.030	0.10	
	2	3.598	-0.030	0.030	0.11	9.5
delta-BHC	1	3.838	-0.030	0.030	0.10	
	2	3.830	-0.030	0.030	0.10	0.0
Dieldrin	1	5.275	-0.030	0.030	0.12	
	2	5.127	-0.030	0.030	0.13	8.0
Endosulfan I	1	5.079	-0.030	0.030	0.12	
	2	4.905	-0.030	0.030	0.12	0.0
Endosulfan II	1	5.651	-0.030	0.030	0.11	
	2	5.545	-0.030	0.030	0.12	8.7
Endosulfan Sulfate	1	6.302	-0.030	0.030	0.082	
	2	6.037	-0.030	0.030	0.10	19.8
Endrin	1	5.467	-0.030	0.030	0.13	
	2	5.372	-0.030	0.030	0.13	0.0
Endrin Aldehyde	1	5.990	5.960	6.020	0.083	
	2	5.822	5.792	5.852	0.093	10.2
Endrin Ketone	1	6.487	-0.030	0.030	0.10	
	2	6.400	-0.030	0.030	0.11	0.0
gamma-BHC (Lindane)	1	3.623	-0.030	0.030	0.11	
	2	3.531	-0.030	0.030	0.12	8.7
Heptachlor	1	4.755	-0.030	0.030	0.12	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

Matrix Spike Dup

Lab Sample ID: B374053-MSD1 Date(s) Analyzed: 05/14/2024 05/14/2024

Instrument ID (1): ECD 8A Instrument ID (2): ECD 8B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	4.592	-0.030	0.030	0.12	0.0
Heptachlor Epoxide	1	4.011	-0.030	0.030	0.12	
	2	3.879	-0.030	0.030	0.12	0.0
Methoxychlor	1	6.118	-0.030	0.030	0.081	
	2	6.250	-0.030	0.030	0.096	16.9

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
B	Analyte is found in the associated laboratory blank as well as in the sample.
B-05	Data is not affected by elevated level in laboratory blank since sample(s) result is "Not Detected".
D	Sample analyzed at a dilution.
DL-03	Elevated reporting limit due to matrix.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-05	Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the high side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
MS-07A	Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.
MS-09	Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-15	Matrix spike and matrix spike duplicate recoveries are outside of control limits. Data validation is not affected since results for this compound in this sample are "not detected", and recovery bias is on the high side.
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.
MS-22	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.
MS-24	Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Analysis is in control based on laboratory fortified blank recovery.
PF-17	Extracted Internal Standard recovery is outside of control limits. Data is not significantly affected since associated analyte is not detected and bias is on the high side.
PF-22	Qualifier ion ratio >150% of associated calibration. Detection is suspect.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
R-06	Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.
S-07	One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.
S-17	Surrogate recovery is outside of control limits. Data validation is not affected since all associated results are less than the reporting limit and bias is on the high side.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-06	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
V-35	Initial calibration verification (ICV) did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
V-36	Initial calibration verification (ICV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
Z-01	Matrix Spike and Matrix Spike Duplicate recoveries are outside of control limits. Analysis is in control based on Laboratory Fortified Blank and Post Digestion Spike recoveries.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
Draft Method 1633 in Soil	
Perfluorobutanoic acid (PFBA)	NH-P,NY,PA,WV
Perfluoropentanoic acid (PFPeA)	NH-P,NY,PA,WV
Perfluorohexanoic acid (PFHxA)	NH-P,NY,PA,WV
Perfluoroheptanoic acid (PFHpA)	NH-P,NY,PA,WV
Perfluorooctanoic acid (PFOA)	NH-P,NY,PA,WV
Perfluorononanoic acid (PFNA)	NH-P,NY,PA,WV
Perfluorodecanoic acid (PFDA)	NH-P,NY,PA,WV
Perfluoroundecanoic acid (PFUnA)	NH-P,NY,PA,WV
Perfluorododecanoic acid (PFDoA)	NH-P,NY,PA,WV
Perfluorotridecanoic acid (PFTrDA)	NH-P,NY,PA,WV
Perfluorotetradecanoic acid (PFTeDA)	NH-P,PA,WV
Perfluorobutanesulfonic acid (PFBS)	NH-P,PA,WV
Perfluoropentanesulfonic acid (PFPeS)	NH-P,PA,WV
Perfluorohexanesulfonic acid (PFHxS)	NH-P,PA,WV
Perfluoroheptanesulfonic acid (PFHpS)	NH-P,PA,WV
Perfluorooctanesulfonic acid (PFOS)	NH-P,NY,PA,WV
Perfluorononanesulfonic acid (PFNS)	NH-P,PA,WV
Perfluorodecanesulfonic acid (PFDS)	NH-P,PA,WV
Perfluorododecanesulfonic acid (PFDoS)	NH-P,PA,WV
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	NH-P,PA,WV
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	NH-P,PA,WV
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	NH-P,NY,PA,WV
Perfluorooctanesulfonamide (PFOSA)	NH-P,PA,WV
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	NH-P,PA,WV
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NH-P,PA,WV
N-MeFOSAA (NMeFOSAA)	NH-P,NY,PA,WV
N-EtFOSAA (NEtFOSAA)	NH-P,PA,WV
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	NH-P,PA,WV
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	NH-P,PA,WV
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NH-P,PA,WV
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NH-P,PA,WV
9Cl-PF3ONS (F53B Minor)	NH-P,PA,WV
11Cl-PF3OUdS (F53B Major)	NH-P,PA,WV
3-Perfluoropropyl propanoic acid (FPrPA)(3:3FTCA)	NH-P,PA,WV
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	NH-P,PA,WV
3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTCA)	NH-P,PA,WV
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NH-P,PA,WV
Perfluoro-3-methoxypropanoic acid (PFMPA)	NH-P,PA,WV
Perfluoro-4-methoxybutanoic acid (PFMBA)	NH-P,PA,WV
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NH-P,PA,WV
Draft Method 1633 in Water	
Perfluorobutanoic acid (PFBA)	NH-P,NY,PA,WV,CT
Perfluoropentanoic acid (PFPeA)	NH-P,NY,PA,WV,CT
Perfluorohexanoic acid (PFHxA)	NH-P,NY,PA,WV,CT
Perfluoroheptanoic acid (PFHpA)	NH-P,NY,PA,WV,CT
Perfluorooctanoic acid (PFOA)	NH-P,NY,PA,WV,CT

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
Draft Method 1633 in Water	
Perfluorononanoic acid (PFNA)	NH-P,NY,PA,WV,CT
Perfluorodecanoic acid (PFDA)	NH-P,NY,PA,WV,CT
Perfluoroundecanoic acid (PFUnA)	NH-P,NY,PA,WV,CT
Perfluorododecanoic acid (PFDoA)	NH-P,NY,PA,WV,CT
Perfluorotridecanoic acid (PFTrDA)	NH-P,NY,PA,WV,CT
Perfluorotetradecanoic acid (PFTeDA)	NH-P,NY,PA,WV,CT
Perfluorobutanesulfonic acid (PFBS)	NH-P,NY,PA,WV,CT
Perfluoropentanesulfonic acid (PFPeS)	NH-P,NY,PA,WV,CT
Perfluorohexanesulfonic acid (PFHxS)	NH-P,NY,PA,WV,CT
Perfluoroheptanesulfonic acid (PFHpS)	NH-P,NY,PA,WV,CT
Perfluorooctanesulfonic acid (PFOS)	NH-P,NY,PA,WV,CT
Perfluorononanesulfonic acid (PFNS)	NH-P,PA,WV,CT
Perfluorodecanesulfonic acid (PFDS)	NH-P,PA,WV,CT
Perfluorododecanesulfonic acid (PFDoS)	NH-P,PA,WV,CT
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	NH-P,PA,WV,CT
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	NH-P,NY,PA,WV,CT
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	NH-P,NY,PA,WV,CT
Perfluorooctanesulfonamide (PFOSA)	NH-P,PA,WV,CT
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	NH-P,PA,WV,CT
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NH-P,PA,WV,CT
N-MeFOSAA (NMeFOSAA)	NH-P,NY,PA,WV,CT
N-EtFOSAA (NEtFOSAA)	NH-P,NY,PA,WV,CT
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	NH-P,PA,WV,CT
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	NH-P,PA,WV,CT
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NH-P,NY,PA,WV,CT
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NH-P,NY,PA,WV,CT
9Cl-PF3ONS (F53B Minor)	NH-P,NY,PA,WV,CT
11Cl-PF3OUdS (F53B Major)	NH-P,NY,PA,WV,CT
3-Perfluoropropyl propanoic acid (FPrPA)(3:3FTCA)	NH-P,PA,WV,CT
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	NH-P,PA,WV,CT
3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTCA)	NH-P,PA,WV,CT
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NH-P,NY,PA,WV,CT
Perfluoro-3-methoxypropanoic acid (PFMPA)	NH-P,NY,PA,WV,CT
Perfluoro-4-methoxybutanoic acid (PFMBA)	NH-P,PA,WV,CT
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NH-P,PA,WV,CT
SW-846 6010D in Soil	
Aluminum	CT,NH,NY,ME,VA,NC
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Calcium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Cobalt	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC

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CERTIFICATIONS

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Analyte	Certifications
SW-846 6010D in Soil	
Iron	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,ME,VA,NC
Magnesium	CT,NH,NY,ME,VA,NC
Manganese	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Potassium	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Sodium	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 6010D in Water	
Aluminum	CT,NH,NY,ME,VA,NC
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,RI,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Calcium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Cobalt	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Iron	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,ME,VA,NC
Magnesium	CT,NH,NY,ME,VA,NC
Manganese	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Potassium	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Sodium	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8081B in Soil	
alpha-Chlordane	NC
alpha-Chlordane [2C]	NC
gamma-Chlordane	NC
gamma-Chlordane [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA

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SW-846 8081B in Soil	
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
alpha-Chlordane	NC
alpha-Chlordane [2C]	NC
gamma-Chlordane	NC
gamma-Chlordane [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA

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SW-846 8081B in Water	
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,NC,ME,VA,PA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1221	CT,NH,NY,NC,ME,VA,PA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1232	CT,NH,NY,NC,ME,VA,PA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1242	CT,NH,NY,NC,ME,VA,PA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1248	CT,NH,NY,NC,ME,VA,PA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1254	CT,NH,NY,NC,ME,VA,PA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA,PA

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Analyte	Certifications
SW-846 8082A in Soil	
Aroclor-1260	CT,NH,NY,NC,ME,VA,PA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1262	NH,NY,NC,ME,VA,PA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA,PA
Aroclor-1268	NH,NY,NC,ME,VA,PA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA,PA
SW-846 8082A in Water	
Aroclor-1016	CT,NH,NY,NC,ME,VA,PA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1221	CT,NH,NY,NC,ME,VA,PA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1232	CT,NH,NY,NC,ME,VA,PA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1242	CT,NH,NY,NC,ME,VA,PA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1248	CT,NH,NY,NC,ME,VA,PA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1254	CT,NH,NY,NC,ME,VA,PA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1260	CT,NH,NY,NC,ME,VA,PA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1262	NH,NY,NC,ME,VA,PA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA,PA
Aroclor-1268	NH,NY,NC,ME,VA,PA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA,PA
SW-846 8260D in Soil	
Acetone	CT,NH,NY,ME,VA
Benzene	CT,NH,NY,ME,VA
Bromochloromethane	NH,NY,ME,VA
Bromodichloromethane	CT,NH,NY,ME,VA
Bromoform	CT,NH,NY,ME,VA
Bromomethane	CT,NH,NY,ME,VA
2-Butanone (MEK)	CT,NH,NY,ME,VA
n-Butylbenzene	CT,NH,NY,ME,VA
sec-Butylbenzene	CT,NH,NY,ME,VA
tert-Butylbenzene	CT,NH,NY,ME,VA
Carbon Disulfide	CT,NH,NY,ME,VA
Carbon Tetrachloride	CT,NH,NY,ME,VA
Chlorobenzene	CT,NH,NY,ME,VA
Chlorodibromomethane	CT,NH,NY,ME,VA
Chloroethane	CT,NH,NY,ME,VA
Chloroform	CT,NH,NY,ME,VA
Chloromethane	CT,NH,NY,ME,VA
Cyclohexane	NY,ME
1,2-Dibromo-3-chloropropane (DBCP)	NY,ME
1,2-Dibromoethane (EDB)	NH,NY

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SW-846 8260D in Soil	
1,2-Dichlorobenzene	CT,NH,NY,ME,VA
1,3-Dichlorobenzene	CT,NH,NY,ME,VA
1,4-Dichlorobenzene	CT,NH,NY,ME,VA
Dichlorodifluoromethane (Freon 12)	NH,NY,ME,VA
1,1-Dichloroethane	CT,NH,NY,ME,VA
1,2-Dichloroethane	CT,NH,NY,ME,VA
1,1-Dichloroethylene	CT,NH,NY,ME,VA
cis-1,2-Dichloroethylene	CT,NH,NY,ME,VA
trans-1,2-Dichloroethylene	CT,NH,NY,ME,VA
1,2-Dichloropropane	CT,NH,NY,ME,VA
cis-1,3-Dichloropropene	CT,NH,NY,ME,VA
trans-1,3-Dichloropropene	CT,NH,NY,ME,VA
1,4-Dioxane	NY,ME
Ethylbenzene	CT,NH,NY,ME,VA
Hexachlorobutadiene	NH,NY,ME,VA
2-Hexanone (MBK)	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl Acetate	NY,ME
Methyl tert-Butyl Ether (MTBE)	NY,ME,VA
Methyl Cyclohexane	NY
Methylene Chloride	CT,NH,NY,ME,VA
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,ME,VA
Naphthalene	NH,NY,ME,VA
n-Propylbenzene	NH,NY,ME
Styrene	CT,NH,NY,ME,VA
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME,VA
Tetrachloroethylene	CT,NH,NY,ME,VA
Toluene	CT,NH,NY,ME,VA
1,2,3-Trichlorobenzene	NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME,VA
1,1,1-Trichloroethane	CT,NH,NY,ME,VA
1,1,2-Trichloroethane	CT,NH,NY,ME,VA
Trichloroethylene	CT,NH,NY,ME,VA
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME,VA
1,2,3-Trichloropropane	NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
1,3,5-Trimethylbenzene	CT,NH,NY,ME,VA
Vinyl Chloride	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
Xylenes (total)	NH,NY,ME
SW-846 8270E in Product/Solid	
Acenaphthene	CT,NY,NH,NC,ME,VA
Acenaphthylene	CT,NY,NH,NC,ME,VA
Acetophenone	NY,NH,NC,ME,VA

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Analyte	Certifications
SW-846 8270E in Product/Solid	
Aniline	NY,NH,NC,ME,VA
Anthracene	CT,NY,NH,NC,ME,VA
Benzo(a)anthracene	CT,NY,NH,NC,ME,VA
Benzo(a)pyrene	CT,NY,NH,NC,ME,VA
Benzo(b)fluoranthene	CT,NY,NH,NC,ME,VA
Benzo(g,h,i)perylene	CT,NY,NH,NC,ME,VA
Benzo(k)fluoranthene	CT,NY,NH,NC,ME,VA
Bis(2-chloroethoxy)methane	CT,NY,NH,NC,ME,VA
Bis(2-chloroethyl)ether	CT,NY,NH,NC,ME,VA
Bis(2-chloroisopropyl)ether	CT,NY,NH,NC,ME,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NH,NC,ME,VA
4-Bromophenylphenylether	CT,NY,NH,NC,ME,VA
Butylbenzylphthalate	CT,NY,NH,NC,ME,VA
Carbazole	NC
4-Chloroaniline	CT,NY,NH,NC,ME,VA
4-Chloro-3-methylphenol	CT,NY,NH,NC,ME,VA
2-Chloronaphthalene	CT,NY,NH,NC,VA
2-Chlorophenol	CT,NY,NH,NC,ME,VA
4-Chlorophenylphenylether	CT,NY,NH,NC,ME,VA
Chrysene	CT,NY,NH,NC,ME,VA
Dibenz(a,h)anthracene	CT,NY,NH,NC,ME,VA
Dibenzofuran	CT,NY,NH,NC,ME,VA
Di-n-butylphthalate	CT,NY,NH,NC,ME,VA
1,2-Dichlorobenzene	NY,NH,NC,ME,VA
1,3-Dichlorobenzene	NY,NH,NC,ME,VA
1,4-Dichlorobenzene	NY,NH,NC,ME,VA
3,3-Dichlorobenzidine	CT,NY,NH,NC,ME,VA
2,4-Dichlorophenol	CT,NY,NH,NC,ME,VA
Diethylphthalate	CT,NY,NH,NC,ME,VA
2,4-Dimethylphenol	CT,NY,NH,NC,ME,VA
Dimethylphthalate	CT,NY,NH,NC,ME,VA
4,6-Dinitro-2-methylphenol	CT,NY,NH,NC,ME,VA
2,4-Dinitrophenol	CT,NY,NH,NC,ME,VA
2,4-Dinitrotoluene	CT,NY,NH,NC,ME,VA
2,6-Dinitrotoluene	CT,NY,NH,NC,ME,VA
Di-n-octylphthalate	CT,NY,NH,NC,ME,VA
Fluoranthene	CT,NY,NH,NC,ME,VA
Fluorene	NY,NH,NC,ME,VA
Hexachlorobenzene	CT,NY,NH,NC,ME,VA
Hexachlorobutadiene	CT,NY,NH,NC,ME,VA
Hexachlorocyclopentadiene	CT,NY,NH,NC,ME,VA
Hexachloroethane	CT,NY,NH,NC,ME,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,NC,ME,VA
Isophorone	CT,NY,NH,NC,ME,VA
1-Methylnaphthalene	NC
2-Methylnaphthalene	CT,NY,NH,NC,ME,VA
2-Methylphenol	CT,NY,NH,NC,ME,VA

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Analyte	Certifications
SW-846 8270E in Product/Solid	
3/4-Methylphenol	CT,NY,NH,NC,ME,VA
Naphthalene	CT,NY,NH,NC,ME,VA
2-Nitroaniline	CT,NY,NH,NC,ME,VA
3-Nitroaniline	CT,NY,NH,NC,ME,VA
4-Nitroaniline	CT,NY,NH,NC,ME,VA
Nitrobenzene	CT,NY,NH,NC,ME,VA
2-Nitrophenol	CT,NY,NH,NC,ME,VA
4-Nitrophenol	CT,NY,NH,NC,ME,VA
N-Nitrosodi-n-propylamine	CT,NY,NH,NC,ME,VA
Pentachlorophenol	CT,NY,NH,NC,ME,VA
Phenanthrene	CT,NY,NH,NC,ME,VA
Phenol	CT,NY,NH,NC,ME,VA
Pyrene	CT,NY,NH,NC,ME,VA
Pyridine	CT,NY,NH,NC,ME,VA
1,2,4,5-Tetrachlorobenzene	NY,NC
1,2,4-Trichlorobenzene	CT,NY,NH,NC,ME,VA
2,4,5-Trichlorophenol	CT,NY,NH,NC,ME,VA
2,4,6-Trichlorophenol	CT,NY,NH,NC,ME,VA
2-Fluorophenol	NC
SW-846 8270E in Soil	
1,4-Dioxane	NY,NH
Atrazine	ME,NC
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Acetophenone	NY,NH,ME,NC,VA
Aniline	NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Bis(2-chloroethoxy)methane	CT,NY,NH,ME,NC,VA
Bis(2-chloroethyl)ether	CT,NY,NH,ME,NC,VA
Bis(2-chloroisopropyl)ether	CT,NY,NH,ME,NC,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NH,ME,NC,VA
4-Bromophenylphenylether	CT,NY,NH,ME,NC,VA
Butylbenzylphthalate	CT,NY,NH,ME,NC,VA
Carbazole	NC
4-Chloroaniline	CT,NY,NH,ME,NC,VA
4-Chloro-3-methylphenol	CT,NY,NH,ME,NC,VA
2-Chloronaphthalene	CT,NY,NH,NC,VA
2-Chlorophenol	CT,NY,NH,ME,NC,VA
4-Chlorophenylphenylether	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA

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SW-846 8270E in Soil	
Dibenzofuran	CT,NY,NH,ME,NC,VA
Di-n-butylphthalate	CT,NY,NH,ME,NC,VA
1,2-Dichlorobenzene	NY,NH,ME,NC,VA
1,3-Dichlorobenzene	NY,NH,ME,NC,VA
1,4-Dichlorobenzene	NY,NH,ME,NC,VA
3,3-Dichlorobenzidine	CT,NY,NH,ME,NC,VA
2,4-Dichlorophenol	CT,NY,NH,ME,NC,VA
Diethylphthalate	CT,NY,NH,ME,NC,VA
2,4-Dimethylphenol	CT,NY,NH,ME,NC,VA
Dimethylphthalate	CT,NY,NH,ME,NC,VA
4,6-Dinitro-2-methylphenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrophenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrotoluene	CT,NY,NH,ME,NC,VA
2,6-Dinitrotoluene	CT,NY,NH,ME,NC,VA
Di-n-octylphthalate	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	NY,NH,ME,NC,VA
Hexachlorobenzene	CT,NY,NH,ME,NC,VA
Hexachlorobutadiene	CT,NY,NH,ME,NC,VA
Hexachlorocyclopentadiene	CT,NY,NH,ME,NC,VA
Hexachloroethane	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
Isophorone	CT,NY,NH,ME,NC,VA
1-Methylnaphthalene	NC
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
2-Methylphenol	CT,NY,NH,ME,NC,VA
3/4-Methylphenol	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
2-Nitroaniline	CT,NY,NH,ME,NC,VA
3-Nitroaniline	CT,NY,NH,ME,NC,VA
4-Nitroaniline	CT,NY,NH,ME,NC,VA
Nitrobenzene	CT,NY,NH,ME,NC,VA
2-Nitrophenol	CT,NY,NH,ME,NC,VA
4-Nitrophenol	CT,NY,NH,ME,NC,VA
N-Nitrosodi-n-propylamine	CT,NY,NH,ME,NC,VA
Pentachlorophenol	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Phenol	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA
Pyridine	CT,NY,NH,ME,NC,VA
1,2,4,5-Tetrachlorobenzene	NY,NC
1,2,4-Trichlorobenzene	CT,NY,NH,ME,NC,VA
2,4,5-Trichlorophenol	CT,NY,NH,ME,NC,VA
2,4,6-Trichlorophenol	CT,NY,NH,ME,NC,VA
2-Fluorophenol	NC
SW-846 8270E in Water	

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A Pace Analytical® Laboratory

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270E in Water	
1,4-Dioxane	NY,NH
Acenaphthene	CT,NY,NC,ME,NH,VA
Acenaphthylene	CT,NY,NC,ME,NH,VA
Acetophenone	NY,NC
Aniline	CT,NY,NC,ME,VA
Anthracene	CT,NY,NC,ME,NH,VA
Benzo(a)anthracene	CT,NY,NC,ME,NH,VA
Benzo(a)pyrene	CT,NY,NC,ME,NH,VA
Benzo(b)fluoranthene	CT,NY,NC,ME,NH,VA
Benzo(g,h,i)perylene	CT,NY,NC,ME,NH,VA
Benzo(k)fluoranthene	CT,NY,NC,ME,NH,VA
Bis(2-chloroethoxy)methane	CT,NY,NC,ME,NH,VA
Bis(2-chloroethyl)ether	CT,NY,NC,ME,NH,VA
Bis(2-chloroisopropyl)ether	CT,NY,NC,ME,NH,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NC,ME,NH,VA
4-Bromophenylphenylether	CT,NY,NC,ME,NH,VA
Butylbenzylphthalate	CT,NY,NC,ME,NH,VA
Carbazole	NC
4-Chloroaniline	CT,NY,NC,ME,NH,VA
4-Chloro-3-methylphenol	CT,NY,NC,ME,NH,VA
2-Chloronaphthalene	CT,NY,NC,ME,NH,VA
2-Chlorophenol	CT,NY,NC,ME,NH,VA
4-Chlorophenylphenylether	CT,NY,NC,ME,NH,VA
Chrysene	CT,NY,NC,ME,NH,VA
Dibenz(a,h)anthracene	CT,NY,NC,ME,NH,VA
Dibenzofuran	CT,NY,NC,ME,NH,VA
Di-n-butylphthalate	CT,NY,NC,ME,NH,VA
1,2-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,3-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,4-Dichlorobenzene	CT,NY,NC,ME,NH,VA
3,3-Dichlorobenzidine	CT,NY,NC,ME,NH,VA
2,4-Dichlorophenol	CT,NY,NC,ME,NH,VA
Diethylphthalate	CT,NY,NC,ME,NH,VA
2,4-Dimethylphenol	CT,NY,NC,ME,NH,VA
Dimethylphthalate	CT,NY,NC,ME,NH,VA
4,6-Dinitro-2-methylphenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrophenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrotoluene	CT,NY,NC,ME,NH,VA
2,6-Dinitrotoluene	CT,NY,NC,ME,NH,VA
Di-n-octylphthalate	CT,NY,NC,ME,NH,VA
Fluoranthene	CT,NY,NC,ME,NH,VA
Fluorene	NY,NC,ME,NH,VA
Hexachlorobenzene	CT,NY,NC,ME,NH,VA
Hexachlorobutadiene	CT,NY,NC,ME,NH,VA
Hexachlorocyclopentadiene	CT,NY,NC,ME,NH,VA
Hexachloroethane	CT,NY,NC,ME,NH,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NC,ME,NH,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270E in Water	
Isophorone	CT,NY,NC,ME,NH,VA
1-Methylnaphthalene	NC
2-Methylnaphthalene	CT,NY,NC,ME,NH,VA
2-Methylphenol	CT,NY,NC,NH,VA
3/4-Methylphenol	CT,NY,NC,NH,VA
Naphthalene	CT,NY,NC,ME,NH,VA
2-Nitroaniline	CT,NY,NC,ME,NH,VA
3-Nitroaniline	CT,NY,NC,ME,NH,VA
4-Nitroaniline	CT,NY,NC,ME,NH,VA
Nitrobenzene	CT,NY,NC,ME,NH,VA
2-Nitrophenol	CT,NY,NC,ME,NH,VA
4-Nitrophenol	CT,NY,NC,ME,NH,VA
N-Nitrosodi-n-propylamine	CT,NY,NC,ME,NH,VA
Pentachlorophenol	CT,NY,NC,ME,NH,VA
Phenanthrene	CT,NY,NC,ME,NH,VA
Phenol	CT,NY,NC,ME,NH,VA
Pyrene	CT,NY,NC,ME,NH,VA
Pyridine	CT,NY,NC,ME,NH,VA
1,2,4,5-Tetrachlorobenzene	NY,NC
1,2,4-Trichlorobenzene	CT,NY,NC,ME,NH,VA
2,4,5-Trichlorophenol	CT,NY,NC,ME,NH,VA
2,4,6-Trichlorophenol	CT,NY,NC,ME,NH,VA
2-Fluorophenol	NC
SW-846 9014 in Soil	
Cyanide	NY,CT,NC,ME,NH,VA

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2025
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2025
RI	Rhode Island Department of Health	LAO00373	12/30/2024
NC	North Carolina Div. of Water Quality	652	12/31/2024
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2024
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2024
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2025
WV	West Virginia DEP Division of Water and Waste Management	419	08/31/2024

Pace Analytical

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East Longmeadow, MA 01028

24E1437

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Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name: NYS DEC	Consultant: NYSDEC
Consultant Address: 21 South Putt Corners Rd, 12561	
Consultant Phone: 845-256-3118	
Callout Project Name: Tivoli Memorial Park	
Project Location: 19 Pine St Tivoli NY	
Callout Number:	
Site/Spill Number: 314135	
Project Manager: Ryan Richard	
Pace Analytical Quote Name/Number:	
Invoice Recipient:	
Sampled By: Ryan Richard	

Requested Turnaround Time
DEC Standard 30-calendar day [ ]
Due Date:

Rush (Prior Approval Required)
1-Day [ ] 2-Day [ ] 3-Day [ ]
4-Day [ ] 5-Day [ ] 10-Day [X]

Data Delivery
Format: PDF [X] EXCEL [X]
Other:
CLP Like (Level 4) Data Pkg Required: [ ]
Email To: ryan.richard@dec.ny.gov
Fax To #:

ANALYSIS REQUESTED (Circle Requested Analyses/Reporting List)

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	8260: DER TCL / Oxygenates / CP-51	8270 DER TCL / CP-51	1,4-Dioxane SIM	8082 PCBs	8081 Pesticide	8151 Herbicide	TAL Total Metals	TCLP RCRA 8 Metals	PFAS 1633	PFAS 537 ID	9010C Cyanide	# of Containers	[2] Preservation Code	[3] Container Code
1	CG-1	5/8/24	10:15	X		S								X							
2	CG-2	5/8/24	10:40	X		S		X	X	X	X	X	X	X	X	X					
3	B1	5/8/24	1:24pm		X	S								X							
4	B1A		1:27pm		X	S		X	X	X	X	X	X	X	X	X					
5	SB1		2:06pm		X	S								X							
6	SB1A		2:19pm		X	S		X	X	X	X	X	X	X	X	X					
7	SB1A MS		2:15pm		X	S		X	X	X	X	X	X	X	X	X					
8	SB1A MSD		2:10pm		X	S		X	X	X	X	X	X	X	X	X					
9	SB2		2:34pm		X	S								X							
10	SB2A	↓	2:34pm		X	S								X							

Dissolved Metals Samples
[ ] Field Filtered
[ ] Lab to Filter

Orthophosphate Samples
[ ] Field Filtered
[ ] Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:
KAM 5/10/24.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

	Date/Time
Relinquished by: (signature)	5/08/ 16:33
Received by: (signature) PACE	5/9/24 1033
Relinquished by: (signature) PACE	5/9/24 1120
Received by: (signature)	5/9/24 1422
Relinquished by: (signature)	5/9/24 1622
Received by: (signature) Paul Marcella	5/10/24 1645

Program & Regulatory Information
[ ] AWQ STDS
[ ] NYC Sewer Discharge
[ ] Part 360 GW (Landfill)
[X] NY Restricted Use
[X] NY Unrestricted Use
[ ] NY Part 375
[ ] NY TOGS
[ ] NY CP-51
Other:

Deliverables
[ ] Enhanced Data Package
[X] NYSDEC EQuIS EDD
[ ] EQuIS (Standard) EDD
[ ] NY Regulatory EDD
[ ] NY Regs Hits-Only EDD
Other:

NELAC and AIHA-LAP, LLC Accredited

Project Entity
[ ] Government [ ] Municipality [ ] MWRA [ ] WRTA
[ ] Federal [ ] 21 J [ ] School
[ ] City [ ] Brownfield [ ] MBTA

Other
[ ] Chromatogram
[ ] AIHA-LAP,LLC

PCB ONLY
[ ] Soxhlet
[ ] Non Soxhlet

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39 Spruce St
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CHAIN OF CUSTODY RECORD (New York)

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name: NYS DEC	Consultant: ~~AMA~~ NYSDEC
Consultant Address: ~~###~~ 21 South Putt Corners Rd, New Paltz NY 12561	
Consultant Phone: 845-256-3118	
Callout Project Name: Tivoli Memorial Park	
Project Location: ~~###~~ 19 Pine St, Tivoli NY	
Callout Number:	
Site/Spill Number: 314135	
Project Manager: Ryan Richard	
Pace Analytical Quote Name/Number:	
Invoice Recipient:	
Sampled By: Ryan Richard	

Requested Turnaround Time
DEC Standard 30-calendar day [1]
Due Date:

Rush (Prior Approval Required)
1-Day [ ] 2-Day [ ] 3-Day [ ]
4-Day [ ] 5-Day [ ] 10-Day [X]

Data Delivery
Format: PDF [X] EXCEL [X]
Other:
CLP Like (Level 4) Data Pkg Required: [ ]
Email To: ryan.richard@dec.ny.gov
Fax To #:

ANALYSIS REQUESTED (Circle Requested Analyses/Reporting List)

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	8260: DER TCL / Oxygenates / CP-51	8270: DER TCL / CP-51	1,4-Dioxane SIM | 8082 PCBs	8081 Pesticide | 8151 Herbicide	TAL Total Metals | TCLP RCRA 8 Metals	PFAS 1633 | PFAS 537 ID	Solo C Cyanide	# of Containers	[2] Preservation Code	[3] Container Code
9	SB3	5/8/24	2:42pm		X	S						X					
10	SB3A		2:42pm		X	S						X					
11	SB4		2:53pm		X	S						X					
12	SB4A		2:53pm		X	S		X	X	X	X	X	X	X			
13	SB5		3:09pm		X	S						X					
14	SB5A		3:15pm		X	S						X					
15	SB6		3:20pm		X	S						X					
16	SB6A		3:22pm		X	S						X					
17	SB7		3:39		X	S		X	X	X	X	X	X	X			
18	SB7A		3:57		X	S						X					

Dissolved Metals Samples
[ ] Field Filtered
[ ] Lab to Filter

Orthophosphate Samples
[ ] Field Filtered
[ ] Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

	Date/Time:
Relinquished by: (signature)	5/09 10:33
Received by: (signature) PACE	5/9/24 1033
Relinquished by: (signature) PACE	5/9/24 1120
Received by: (signature)	5/9/24 1450
Relinquished by: (signature)	5/9/24 1622
Received by: (signature) Paul Marcella	5/9/24 1645

Program & Regulatory Information
[ ] AWQ STDS
[ ] NY TOGS
[ ] NYC Sewer Discharge
[ ] NY CP-51
[ ] Part 360 GW (Landfill)
[X] NY Restricted Use
[X] NY Unrestricted Use
[ ] NY Part 375
Other:

Deliverables
[ ] Enhanced Data Package
[X] NYSDEC EQuIS EDD
[ ] EQuIS (Standard) EDD
[ ] NY Regulatory EDD
[ ] NY Regs Hits-Only EDD
Other:
NELAC and AIHA-LAP, LLC Accredited

Project Entity
[ ] Government [ ] Municipality [ ] MWRA [ ] WRTA
[ ] Federal [ ] 21 J [ ] School
[ ] City [ ] Brownfield [ ] MBTA

Other
[ ] Chromatogram
[ ] *AIHA-LAP,LLC*

PCB ONLY
[ ] Soxhlet
[ ] Non Soxhlet

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East Longmeadow, MA 01028

24E1437 https://www.pacelabs.com/

Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name: NYS DEC Consultant: NYS DEC
Consultant Address: 21 S Putt Corners Rd, New Paltz
Consultant Phone: ~~845~~ 845-256-3118
Callout Project Name:
Project Location: 19 Pine St Tivoli, NY
Callout Number:
Site/Spill Number: 314135
Project Manager: Ryan Richard.
Pace Analytical Quote Name/Number:
Invoice Recipient:
Sampled By:

Requested Turnaround Time
DEC Standard 30-calendar day
Due Date:

Rush (Prior Approval Required)
1-Day ☐ 2-Day ☐ 3-Day ☐
4-Day ☐ 5-Day ☐ 10-Day ☒

Data Delivery
Format: PDF ☒ EXCEL ☐
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19	DUP	5/8/24	3:45pm					X	X	X	X	X	X	X			
20	Trip Blank							X									

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
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H = HCL
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B = Sodium Bisulfate
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V = Vial
S = Summa Canister
T = Tedlar Bag
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Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

Comments:

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

	Date/Time:
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Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☒ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☒ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:

NELAC and AIHA-LAP, LLC Accredited

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

2.1 3-78 5-10-24 0824

AAL 5/10/24 0929

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Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-ELON-0001 v07_Sample Receiving Checklist
	Effective Date: 07/13/2023

Log In Back-Sheet

Client NYSDEC

Project Tivoli Memorial Park

MCP/RCP Required NA

Deliverable Package Requirement NA

Location 19 Pine St Tivoli NY

PWSID# (When Applicable) NA

Arrival Method:

Courier ☑ Fed Ex ☐ Walk In ☐ Other ☐

Received By / Date / Time AM 5/10/24 829

Back-Sheet By / Date / Time JA 5/10/24 1424

Temperature Method gun # 6

Temp | < 6° C Actual Temperature 2.1/3.7

Rush Samples: Yes / (No) Notify

Short Hold: Yes / (No) Notify

Notes regarding Samples/COC outside of SOP:

*Sumpic 1 1 2oz jar received empty

possible limited volume.

Login Sample Receipt Checklist – (Rejection Criteria Listing – Using Acceptance Policy) Any False statement will be brought to the attention of the Client – True or False

	True	False
Received on Ice	☑	☐
Received in Cooler	☑	☐
Custody Seal: DATE TIME	☐	☑
COC Relinquished	☑	☐
COC/Samples Labels Agree	☑	☐
All Samples in Good Condition	☑	☐
Samples Received within Holding Time	☑	☐
Is there enough Volume	☑	☐
Proper Media/Container Used	☑	☐
Splitting Samples Required	☐	☑
MS/MSD	☑	☐ (NA)
Trip Blanks	☑	☐
Lab to Filters	☐	☑
COC Legible	☑	☐

COC Included: (Check all included)

Client ☑ Analysis ☐ Sampler Name ☐

Project ☑ IDs ☐ Collection Date/Time ☑

All Samples Proper pH: (N/A) ☐ ☐

Additional Container Notes

Note: West Virginia requires all samples to have their temperature taken. Note any outliers.

Qualtrax ID: 120836

DC#_Title: ENV-FRM-ELON-0001 v07_Sample Receiving Checklist

Effective Date: 07/13/2023

Sample		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
16oz Amb/Clear	Soils Jars (Circle Amb/Clear)		1		1		3						1					1		1	
8oz Amb/Clear																					
4oz Amb/Clear		1		1		1		1	1	1	1	1		1	1	1	1		1		
2oz Amb/Clear			1		1		3						1					1		1	
Unpreserved	Ambers 1 Liter																				
HCL																					
Sulfuric																					
Sulfuric	Ambers 250mL																				
Phosphoric																					
HCl																					
Unpreserved	Ambers 100mL																				
Unpreserved	Plastics 1 Liter																				
Sulfuric																					
Unpreserved	Plastics 500mL																				
Sulfuric																					
Unpreserved	Plastics 250mL																				
Trizma																					
Sulfuric																					
Nitric																					
NaOH																					
Ammonium Acetate																					
NaOH/Zinc																					
Unpreserved	VOA Vials																				
HCl																					
MeOH		1			1		3						1					1		1	4
D.I. Water																					
BiSulfate		2			2		6						2					2		2	2
Col/Bact	Other/Fill in																				
Other		1			1		3						1					1		1	

APPENDIX B

Data Package

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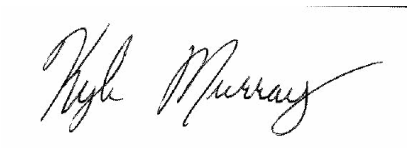
May 30, 2024

Ryan Richard
NYS Division of Environmental Remediation
21 South Putt Corners Rd.
New Paltz, NY 12561

Project Location: 19 Pine St, Tivoli, NY
Client Job Number:
Project Number: 314135
Laboratory Work Order Number: 24E1437

Enclosed are results of analyses for samples as received by the laboratory on May 10, 2024. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kyle A. Murray
Project Manager

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NYS Division of Environmental Remediation
21 South Putt Corners Rd.
New Paltz, NY 12561
ATTN: Ryan Richard

REPORT DATE: 5/30/2024

PURCHASE ORDER NUMBER: 149634

PROJECT NUMBER: 314135

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24E1437

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: 19 Pine St, Tivoli, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
CG-1	24E1437-01	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
CG-2	24E1437-02	Soil		Draft Method 1633	
				SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	
B1	24E1437-03	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
B1A	24E1437-04	Soil		Draft Method 1633	
				SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	
SB1	24E1437-05	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
SB1A	24E1437-06	Soil		Draft Method 1633	
				SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	
SB2	24E1437-07	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 7471B	

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NYS Division of Environmental Remediation
21 South Putt Corners Rd.
New Paltz, NY 12561
ATTN: Ryan Richard

REPORT DATE: 5/30/2024

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WORK ORDER NUMBER: 24E1437

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PROJECT LOCATION: 19 Pine St, Tivoli, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SB2A	24E1437-08	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
SB3	24E1437-09	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
SB3A	24E1437-10	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
SB4	24E1437-11	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
SB4A	24E1437-12	Soil		Draft Method 1633	
				SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	
SB5	24E1437-13	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
SB5A	24E1437-14	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
SB6	24E1437-15	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
SB6A	24E1437-16	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 7471B	

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ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24E1437

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: 19 Pine St, Tivoli, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SB7	24E1437-17	Soil		Draft Method 1633	
				SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	
SB7A	24E1437-18	Soil		SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
DUP	24E1437-19	Soil		Draft Method 1633	
				SM 2540G	
				SW-846 6010D	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8260D	
				SW-846 8270E	
				SW-846 9014	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

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Draft Method 1633

Qualifications:

B

Analyte is found in the associated laboratory blank as well as in the sample.

Analyte & Samples(s) Qualified:

1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS
B374779-BS1, B374779-MRL1

B-05

Data is not affected by elevated level in laboratory blank since sample(s) result is "Not Detected".

Analyte & Samples(s) Qualified:

1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS
24E1437-19RE1[DUP], B374779-BLK1

MS-07A

Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:

2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FT
24E1437-06[SB1A], B374213-MS1, B374213-MSD1

PF-17

Extracted Internal Standard recovery is outside of control limits. Data is not significantly affected since associated analyte is not detected and bias is on the high side.

Analyte & Samples(s) Qualified:

13C2-6:2FTS
24E1437-02[CG-2]

13C2-8:2FTS
24E1437-02[CG-2]

1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS
24E1437-02[CG-2]

1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS
24E1437-02[CG-2]

PF-22

Qualifier ion ratio >150% of associated calibration. Detection is suspect.

Analyte & Samples(s) Qualified:

Perfluorotetradecanoic acid (PFTeDA)
24E1437-02[CG-2]

R-06

Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.

Analyte & Samples(s) Qualified:

2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FT
B374213-MSD1

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

N-MeFOSAA (NMeFOSAA)
24E1437-02[CG-2], 24E1437-04[B1A], 24E1437-06[SB1A], 24E1437-12[SB4A], 24E1437-17[SB7], B374213-BLK1, B374213-BS1, B374213-MRL1, B374213-MS1, B374213-MSD1, S104823-CCV1

SW-846 6010D

Qualifications:

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

Manganese
B374725-BS1

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MS-19

Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

Analyte & Samples(s) Qualified:

Aluminum
24E1437-06[SB1A], B374725-MS1, B374725-MSD1, B374725-PS1

Calcium
24E1437-06[SB1A], B374725-MS1, B374725-MSD1, B374725-PS1

Iron
24E1437-01[CG-1], 24E1437-06[SB1A], B374725-MS3, B374725-MSD3, B374725-PS3

Magnesium
B374725-PS1

Manganese
24E1437-06[SB1A], B374725-MS1, B374725-MSD1, B374725-PS1

MS-22

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:

Barium
24E1437-06[SB1A], B374725-MS1

Potassium
24E1437-06[SB1A], B374725-MS1

Sodium
24E1437-06[SB1A], B374725-MSD1

Z-01

Matrix Spike and Matrix Spike Duplicate recoveries are outside of control limits. Analysis is in control based on Laboratory Fortified Blank and Post Digestion Spike recoveries.

Analyte & Samples(s) Qualified:

Antimony
24E1437-06[SB1A], B374725-MS4, B374725-MSD4, B374725-PS1

SW-846 8081B

Qualifications:

DL-03

Elevated reporting limit due to matrix.

Analyte & Samples(s) Qualified:

24E1437-02[CG-2], 24E1437-02RE1[CG-2], 24E1437-04[B1A], 24E1437-04RE1[B1A], 24E1437-12[SB4A], 24E1437-12RE1[SB4A], 24E1437-17[SB7], 24E1437-17RE1[SB7], 24E1437-19[DUP], 24E1437-19RE1[DUP]

R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

Methoxychlor
24E1437-02[CG-2], 24E1437-04[B1A], 24E1437-06[SB1A], 24E1437-12[SB4A], 24E1437-17[SB7], 24E1437-19[DUP], B374053-BLK1, B374053-BS1, B374053-BSD1, B374053-MS1, B374053-MSD1

V-06

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:

4,4'-DDD [2C]
B374053-BS1, B374053-BSD1, B374053-MS1, B374053-MSD1

SW-846 8260D

Qualifications:

L-02

Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.

Analyte & Samples(s) Qualified:

Chloromethane
B374129-BS1, B374129-BSD1, B374129-MS1, B374129-MSD1

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MS-07A

Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:

Bromomethane
24E1437-06[SB1A], B374129-MS1, B374129-MSD1

MS-15

Matrix spike and matrix spike duplicate recoveries are outside of control limits. Data validation is not affected since results for this compound in this sample are "not detected", and recovery bias is on the high side.

Analyte & Samples(s) Qualified:

Carbon Disulfide
B374129-MS1, B374129-MSD1

Chloromethane
B374129-MS1, B374129-MSD1

Dichlorodifluoromethane (Freon 12)
B374129-MS1, B374129-MSD1

Methyl Acetate
B374129-MS1, B374129-MSD1

MS-24

Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Analysis is in control based on laboratory fortified blank recovery.

Analyte & Samples(s) Qualified:

Chloroethane
B374129-MS1

Trichlorofluoromethane (Freon 11)
B374129-MS1

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

Dichlorodifluoromethane (Freon 12)
24E1437-02[CG-2], 24E1437-04[B1A], 24E1437-06[SB1A], 24E1437-12[SB4A], 24E1437-17[SB7], 24E1437-19[DUP], B374129-BLK1, B374129-BS1, B374129-BSD1, B374129-MS1, B374129-MSD1, S104464-CCV1

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

4-Methyl-2-pentanone (MIBK)
B374129-BS1, B374129-BSD1, B374129-MS1, B374129-MSD1, S104464-CCV1

Chloromethane
B374129-BS1, B374129-BSD1, B374129-MS1, B374129-MSD1, S104464-CCV1

V-35

Initial calibration verification (ICV) did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:

Acetone
24E1437-12[SB4A], 24E1437-19[DUP], B374129-BS1, B374129-BSD1, B374129-MS1, B374129-MSD1, S104464-CCV1

V-36

Initial calibration verification (ICV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

Dichlorodifluoromethane (Freon 12)
B374129-BS1, B374129-BSD1, B374129-MS1, B374129-MSD1, S104464-CCV1

SW-846 8270E

Qualifications:

L-02

Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.

Analyte & Samples(s) Qualified:

Di-n-octylphthalate
B374087-BLK1, B374087-BS1, B374087-BSD1

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L-04

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Hexachlorocyclopentadiene
24E1437-02[CG-2], 24E1437-04[B1A], 24E1437-06[SB1A], 24E1437-12[SB4A], 24E1437-17[SB7], 24E1437-19[DUP], B374087-BLK1, B374087-BS1, B374087-BSD1

L-05

Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the high side.

Analyte & Samples(s) Qualified:

Bis(2-Ethylhexyl)phthalate
24E1437-02[CG-2], 24E1437-04[B1A], 24E1437-06[SB1A], 24E1437-12[SB4A], 24E1437-17[SB7], 24E1437-19[DUP], B374087-BLK1, B374087-BS1, B374087-BSD1

MS-09

Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:

2,3,4,6-Tetrachlorophenol
24E1437-06[SB1A], B374087-MS1, B374087-MSD1

2,4-Dimethylphenol
24E1437-06[SB1A], B374087-MS1, B374087-MSD1

3,3-Dichlorobenzidine
24E1437-06[SB1A], B374087-MS1, B374087-MSD1

4-Chloroaniline
24E1437-06[SB1A], B374087-MS1, B374087-MSD1

Aniline
24E1437-06[SB1A], B374087-MS1, B374087-MSD1

Benzaldehyde
24E1437-06[SB1A], B374087-MS1, B374087-MSD1

Benzo(g,h,i)perylene
24E1437-06[SB1A], B374087-MS1, B374087-MSD1

Fluoranthene
24E1437-06[SB1A], B374087-MS1, B374087-MSD1

Hexachlorocyclopentadiene
24E1437-06[SB1A], B374087-MS1, B374087-MSD1

Hexachloroethane
24E1437-06[SB1A], B374087-MS1, B374087-MSD1

Pentachlorophenol
24E1437-06[SB1A], B374087-MS1, B374087-MSD1

Pyridine
24E1437-06[SB1A], B374087-MS1, B374087-MSD1

MS-22

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:

2-Chloronaphthalene
B374087-MSD1

Dibenz(a,h)anthracene
B374087-MSD1

Indeno(1,2,3-cd)pyrene
B374087-MSD1

S-07

One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.

Analyte & Samples(s) Qualified:

2,4,6-Tribromophenol
24E1437-17[SB7]

S-17

Surrogate recovery is outside of control limits. Data validation is not affected since all associated results are less than the reporting limit and bias is on the high side.

Analyte & Samples(s) Qualified:

1,4-Dioxane-d8
B374074-BLK1

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V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:

Hexachlorocyclopentadiene
24E1437-02[CG-2], 24E1437-04[B1A], 24E1437-06[SB1A], 24E1437-12[SB4A], 24E1437-17[SB7], 24E1437-19[DUP], B374087-BLK1, B374087-BS1, B374087-BSD1, B374087-MS1, B374087-MSD1, S104589-CCV1, S104909-CCV1

Pentachlorophenol
24E1437-02[CG-2], 24E1437-04[B1A], 24E1437-06[SB1A], 24E1437-12[SB4A], 24E1437-17[SB7], 24E1437-19[DUP], B374087-BLK1, B374087-BS1, B374087-BSD1, B374087-MS1, B374087-MSD1, S104589-CCV1, S104909-CCV1

V-06

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:

Bis(2-chloroisopropyl)ether
24E1437-02[CG-2], 24E1437-04[B1A], 24E1437-06[SB1A], 24E1437-12[SB4A], 24E1437-17[SB7], 24E1437-19[DUP], B374087-MS1, B374087-MSD1, S104909-CCV1

Bis(2-Ethylhexyl)phthalate
24E1437-02[CG-2], 24E1437-04[B1A], 24E1437-06[SB1A], 24E1437-12[SB4A], 24E1437-17[SB7], 24E1437-19[DUP], B374087-BLK1, B374087-BS1, B374087-BSD1, B374087-MS1, B374087-MSD1, S104589-CCV1, S104909-CCV1

Butylbenzylphthalate
B374087-BLK1, B374087-BS1, B374087-BSD1, S104589-CCV1

Dibenz(a,h)anthracene
B374087-BLK1, B374087-BS1, B374087-BSD1, S104589-CCV1

Di-n-butylphthalate
B374087-BLK1, B374087-BS1, B374087-BSD1, S104589-CCV1

Di-n-octylphthalate
B374087-BLK1, B374087-BS1, B374087-BSD1, B374087-MS1, B374087-MSD1, S104589-CCV1, S104909-CCV1

N-Nitrosodi-n-propylamine
B374087-BS1, B374087-MS1

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

Di-n-octylphthalate
24E1437-02[CG-2], 24E1437-04[B1A], 24E1437-06[SB1A], 24E1437-12[SB4A], 24E1437-17[SB7], 24E1437-19[DUP]

SW-846 9014

Qualifications:

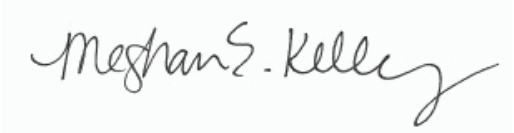
L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

Cyanide
B374399-BS1

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Meghan E. Kelley
Reporting Specialist

con-test® A Pace Analytical® Laboratory
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: CG-1 | Sampled: 5/8/2024 10:15

Sample ID: 24E1437-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	11000	25	7.9	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:33	ICP
Antimony	ND	2.5	0.67	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 17:30	NC
Arsenic	4.7	5.0	0.71	mg/Kg dry	1	J	SW-846 6010D	5/17/24	5/22/24 20:33	ICP
Barium	96	2.5	0.54	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:33	ICP
Beryllium	0.47	0.25	0.077	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:33	ICP
Cadmium	0.49	0.50	0.24	mg/Kg dry	1	J	SW-846 6010D	5/17/24	5/22/24 20:33	ICP
Calcium	20000	25	13	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:33	ICP
Chromium	15	1.0	0.64	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:33	ICP
Cobalt	8.6	2.5	0.43	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:33	ICP
Copper	41	2.0	1.8	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:33	ICP
Iron	22000	250	120	mg/Kg dry	10	MS-19	SW-846 6010D	5/17/24	5/22/24 22:48	ICP
Lead	44	0.76	0.53	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:33	ICP
Magnesium	6100	25	5.9	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:33	ICP
Manganese	880	0.50	0.29	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:33	ICP
Mercury	0.066	0.034	0.015	mg/Kg dry	1		SW-846 7471B	5/21/24	5/23/24 15:04	AV
Nickel	19	1.0	0.70	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:33	ICP
Potassium	1700	2500	620	mg/Kg dry	10	D, J	SW-846 6010D	5/17/24	5/22/24 22:48	ICP
Selenium	ND	5.0	1.3	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:33	ICP
Silver	ND	0.50	0.31	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:33	ICP
Sodium	ND	250	75	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:33	ICP
Thallium	ND	2.5	0.80	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 17:30	NC
Vanadium	17	1.0	0.56	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:33	ICP
Zinc	130	1.0	0.89	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:33	ICP

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: CG-1 | Sampled: 5/8/2024 10:15

Sample ID: 24E1437-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	66.1			% Wt	1		SM 2540G	5/13/24	5/13/24 17:51	NC

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: CG-2 | Sampled: 5/8/2024 10:40

Sample ID: 24E1437-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.15	0.080	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
Benzene	ND	0.0031	0.00097	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
Bromochloromethane	ND	0.0031	0.0013	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
Bromodichloromethane	ND	0.0031	0.00079	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
Bromoform	ND	0.0031	0.0014	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
Bromomethane	ND	0.015	0.0027	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
2-Butanone (MEK)	ND	0.062	0.013	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
n-Butylbenzene	ND	0.0031	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
sec-Butylbenzene	ND	0.0031	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
tert-Butylbenzene	ND	0.0031	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
Carbon Disulfide	ND	0.031	0.016	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
Carbon Tetrachloride	ND	0.0031	0.00090	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
Chlorobenzene	ND	0.0031	0.00074	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
Chlorodibromomethane	ND	0.0015	0.0010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
Chloroethane	ND	0.031	0.0022	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
Chloroform	ND	0.0062	0.0010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
Chloromethane	ND	0.015	0.0019	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
Cyclohexane	ND	0.015	0.0063	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0031	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
1,2-Dibromoethane (EDB)	ND	0.0015	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
1,2-Dichlorobenzene	ND	0.0031	0.00099	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
1,3-Dichlorobenzene	ND	0.0031	0.00089	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
1,4-Dichlorobenzene	ND	0.0031	0.00096	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.031	0.0014	mg/Kg dry	1	V-05	SW-846 8260D	5/13/24	5/13/24 7:42	MFF
1,1-Dichloroethane	ND	0.0031	0.00094	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
1,2-Dichloroethane	ND	0.0031	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
1,1-Dichloroethylene	ND	0.0062	0.0015	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
cis-1,2-Dichloroethylene	ND	0.0031	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
trans-1,2-Dichloroethylene	ND	0.0031	0.00092	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
1,2-Dichloropropane	ND	0.0031	0.00095	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
cis-1,3-Dichloropropene	ND	0.0015	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
trans-1,3-Dichloropropene	ND	0.0015	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
Ethylbenzene	ND	0.0031	0.00089	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
2-Hexanone (MBK)	ND	0.031	0.011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
Isopropylbenzene (Cumene)	ND	0.0031	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0031	0.0010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
Methyl Acetate	ND	0.0031	0.0021	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0062	0.0014	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
Methyl Cyclohexane	ND	0.0031	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
Methylene Chloride	ND	0.031	0.0014	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.031	0.014	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
Naphthalene	ND	0.0062	0.0015	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
n-Propylbenzene	ND	0.0031	0.0010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
Styrene	ND	0.0031	0.00098	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: CG-2 | Sampled: 5/8/2024 10:40

Sample ID: 24E1437-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	0.0015	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
Tetrachloroethylene	ND	0.0031	0.0013	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
Toluene	ND	0.0031	0.00091	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
1,2,3-Trichlorobenzene	ND	0.0031	0.0010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
1,2,4-Trichlorobenzene	ND	0.0031	0.0010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
1,1,1-Trichloroethane	ND	0.0031	0.00092	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
1,1,2-Trichloroethane	ND	0.0031	0.00080	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
Trichloroethylene	ND	0.0031	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
Trichlorofluoromethane (Freon 11)	ND	0.015	0.0018	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
1,2,3-Trichloropropane	ND	0.0031	0.0013	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.015	0.0016	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
1,2,4-Trimethylbenzene	ND	0.0031	0.0015	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
1,3,5-Trimethylbenzene	ND	0.0031	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
Vinyl Chloride	ND	0.015	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
m+p Xylene	ND	0.0062	0.0022	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
o-Xylene	ND	0.0031	0.0010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF
Xylenes (total)	ND	0.0031	0.0031	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:42	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	111	70-130		5/13/24 7:42
Toluene-d8	97.2	70-130		5/13/24 7:42
4-Bromofluorobenzene	80.9	70-130		5/13/24 7:42

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: CG-2 | Sampled: 5/8/2024 10:40

Sample ID: 24E1437-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	1.0	0.072	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Atrazine	ND	1.0	0.068	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Benzaldehyde	0.18	0.53	0.084	mg/Kg dry	1	J	SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Biphenyl	ND	1.0	0.067	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Caprolactam	ND	0.53	0.092	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Acenaphthene	ND	0.27	0.051	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Acenaphthylene	ND	0.27	0.048	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Acetophenone	ND	0.53	0.055	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Aniline	ND	0.53	0.092	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Anthracene	ND	0.27	0.047	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Benzo(a)anthracene	0.11	0.27	0.043	mg/Kg dry	1	J	SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Benzo(a)pyrene	0.16	0.27	0.048	mg/Kg dry	1	J	SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Benzo(b)fluoranthene	0.28	0.27	0.043	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Benzo(g,h,i)perylene	0.21	0.27	0.076	mg/Kg dry	1	J	SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Benzo(k)fluoranthene	0.098	0.27	0.048	mg/Kg dry	1	J	SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Bis(2-chloroethoxy)methane	ND	0.53	0.057	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Bis(2-chloroethyl)ether	ND	0.53	0.075	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Bis(2-chloroisopropyl)ether	ND	0.53	0.33	mg/Kg dry	1	V-06	SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.53	0.063	mg/Kg dry	1	L-05, V-06	SW-846 8270E	5/12/24	5/16/24 16:54	BGL
4-Bromophenylphenylether	ND	0.53	0.048	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Butylbenzylphthalate	ND	0.53	0.059	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Carbazole	ND	0.27	0.053	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
4-Chloroaniline	ND	1.0	0.094	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
4-Chloro-3-methylphenol	ND	1.0	0.055	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
2-Chloronaphthalene	ND	0.53	0.046	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
2-Chlorophenol	ND	0.53	0.053	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
4-Chlorophenylphenylether	ND	0.53	0.044	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Chrysene	0.18	0.27	0.047	mg/Kg dry	1	J	SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Dibenz(a,h)anthracene	ND	0.27	0.073	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Dibenzofuran	ND	0.53	0.047	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Di-n-butylphthalate	ND	0.53	0.20	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
3,3-Dichlorobenzidine	ND	0.27	0.11	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
2,4-Dichlorophenol	ND	0.53	0.050	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Diethylphthalate	ND	0.53	0.051	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
2,4-Dimethylphenol	ND	0.53	0.12	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Dimethylphthalate	ND	0.53	0.050	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
4,6-Dinitro-2-methylphenol	ND	0.53	0.42	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
2,4-Dinitrophenol	ND	1.0	0.41	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
2,4-Dinitrotoluene	ND	0.53	0.054	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
2,6-Dinitrotoluene	ND	0.53	0.056	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Di-n-octylphthalate	ND	0.53	0.075	mg/Kg dry	1	V-20	SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Fluoranthene	0.16	0.27	0.043	mg/Kg dry	1	J	SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Fluorene	ND	0.27	0.047	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Hexachlorobenzene	ND	0.53	0.051	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: CG-2 | Sampled: 5/8/2024 10:40

Sample ID: 24E1437-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.53	0.048	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Hexachlorocyclopentadiene	ND	0.53	0.35	mg/Kg dry	1	L-04, V-05	SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Hexachloroethane	ND	0.53	0.049	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Indeno(1,2,3-cd)pyrene	0.19	0.27	0.086	mg/Kg dry	1	J	SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Isophorone	ND	0.53	0.056	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
1-Methylnaphthalene	ND	0.27	0.053	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
2-Methylnaphthalene	ND	0.27	0.045	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
2-Methylphenol	ND	0.53	0.071	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
3/4-Methylphenol	ND	0.53	0.070	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Naphthalene	ND	0.27	0.093	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
2-Nitroaniline	ND	0.53	0.064	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
3-Nitroaniline	ND	0.53	0.11	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
4-Nitroaniline	ND	0.53	0.059	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Nitrobenzene	ND	0.53	0.067	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
2-Nitrophenol	ND	0.53	0.052	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
4-Nitrophenol	ND	1.0	0.14	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	0.53	0.067	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
N-Nitrosodi-n-propylamine	ND	0.53	0.074	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Pentachlorophenol	ND	0.53	0.19	mg/Kg dry	1	V-05	SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Phenanthrene	ND	0.27	0.047	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Phenol	ND	0.53	0.067	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Pyrene	0.15	0.27	0.055	mg/Kg dry	1	J	SW-846 8270E	5/12/24	5/16/24 16:54	BGL
Pyridine	ND	0.53	0.062	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.53	0.052	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
2,4,5-Trichlorophenol	ND	0.53	0.054	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL
2,4,6-Trichlorophenol	ND	0.53	0.050	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 16:54	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	57.7	30-130		5/16/24 16:54
Phenol-d6	55.8	30-130		5/16/24 16:54
Nitrobenzene-d5	61.9	30-130		5/16/24 16:54
2-Fluorobiphenyl	61.3	30-130		5/16/24 16:54
2,4,6-Tribromophenol	49.8	30-130		5/16/24 16:54
p-Terphenyl-d14	71.3	30-130		5/16/24 16:54

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: CG-2 | Sampled: 5/8/2024 10:40

Sample ID: 24E1437-02

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.077	0.061	mg/Kg dry	1		SW-846 8270E	5/10/24	5/13/24 19:23	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	35.1	15-110		5/13/24 19:23

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: CG-2 | Sampled: 5/8/2024 10:40

Sample ID: 24E1437-02

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.79	0.32	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 9:52	QNW
Perfluoropentanoic acid (PFPeA)	0.17	0.40	0.045	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 9:52	QNW
Perfluorohexanoic acid (PFHxA)	0.23	0.20	0.033	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 9:52	QNW
Perfluoroheptanoic acid (PFHpA)	0.085	0.20	0.014	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 9:52	QNW
Perfluorooctanoic acid (PFOA)	0.29	0.20	0.031	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 9:52	QNW
Perfluorononanoic acid (PFNA)	0.13	0.20	0.014	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 9:52	QNW
Perfluorodecanoic acid (PFDA)	0.15	0.20	0.017	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 9:52	QNW
Perfluoroundecanoic acid (PFUnA)	0.085	0.20	0.023	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 9:52	QNW
Perfluorododecanoic acid (PFDoA)	0.080	0.20	0.022	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 9:52	QNW
Perfluorotridecanoic acid (PFTrDA)	0.036	0.20	0.022	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 9:52	QNW
Perfluorotetradecanoic acid (PFTeDA)	0.039	0.20	0.020	µg/kg dry	1	PF-22, J	Draft Method 1633	5/15/24	5/18/24 9:52	QNW
Perfluorobutanesulfonic acid (PFBS)	0.035	0.20	0.021	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 9:52	QNW
Perfluoropentanesulfonic acid (PFPeS)	ND	0.20	0.025	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 9:52	QNW
Perfluorohexanesulfonic acid (PFHxS)	ND	0.20	0.078	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 9:52	QNW
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.20	0.021	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 9:52	QNW
Perfluorooctanesulfonic acid (PFOS)	0.45	0.20	0.032	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 9:52	QNW
Perfluorononanesulfonic acid (PFNS)	ND	0.20	0.022	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 9:52	QNW
Perfluorodecanesulfonic acid (PFDS)	ND	0.20	0.032	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 9:52	QNW
Perfluorododecanesulfonic acid (PFDoS)	ND	0.20	0.030	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 9:52	QNW
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.79	0.069	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 9:52	QNW
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.79	0.50	µg/kg dry	1	PF-17	Draft Method 1633	5/15/24	5/18/24 9:52	QNW
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.79	0.092	µg/kg dry	1	PF-17	Draft Method 1633	5/15/24	5/18/24 9:52	QNW
Perfluorooctanesulfonamide (PFOSA)	ND	0.20	0.031	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 9:52	QNW
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.20	0.025	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 9:52	QNW
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.20	0.023	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 9:52	QNW
N-MeFOSAA (NMeFOSAA)	ND	0.20	0.036	µg/kg dry	1	V-05	Draft Method 1633	5/15/24	5/18/24 9:52	QNW
N-EtFOSAA (NEtFOSAA)	ND	0.20	0.030	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 9:52	QNW
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	2.0	0.21	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 9:52	QNW
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	2.0	0.21	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 9:52	QNW
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.79	0.051	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 9:52	QNW
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.79	0.059	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 9:52	QNW
9Cl-PF3ONS (F53B Minor)	ND	0.79	0.057	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 9:52	QNW
11Cl-PF3OUdS (F53B Major)	ND	0.79	0.088	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 9:52	QNW
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	2.0	0.19	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 9:52	QNW
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	9.9	1.3	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 9:52	QNW
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	9.9	1.5	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 9:52	QNW
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.40	0.031	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 9:52	QNW
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.40	0.032	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 9:52	QNW

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: CG-2 | Sampled: 5/8/2024 10:40

Sample ID: 24E1437-02

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.40	0.033	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 9:52	QNW
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.40	0.060	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 9:52	QNW

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
13C4-PFBA	85.3		10-130		5/18/24 9:52
13C5-PFPeA	90.7		35-150		5/18/24 9:52
13C5-PFHxA	87.5		55-150		5/18/24 9:52
13C4-PFHpA	94.2		55-150		5/18/24 9:52
13C8-PFOA	87.4		60-140		5/18/24 9:52
13C9-PFNA	87.6		55-140		5/18/24 9:52
13C6-PFDA	90.5		50-140		5/18/24 9:52
13C7-PFUnA	96.5		30-140		5/18/24 9:52
13C2-PFDoA	88.7		10-150		5/18/24 9:52
13C2-PFTeDA	43.0		10-130		5/18/24 9:52
13C3-PFBS	88.1		55-150		5/18/24 9:52
13C3-PFHxS	88.7		55-150		5/18/24 9:52
13C8-PFOS	91.7		45-140		5/18/24 9:52
13C2-4:2FTS	171		60-200		5/18/24 9:52
13C2-6:2FTS	**236**	*	60-200	PF-17	5/18/24 9:52
13C2-8:2FTS	**223**	*	50-200	PF-17	5/18/24 9:52
13C8-PFOSA	56.1		30-130		5/18/24 9:52
D3-NMeFOSA	30.4		15-130		5/18/24 9:52
D5-NEtFOSA	24.2		10-130		5/18/24 9:52
D3-NMeFOSAA	121		45-200		5/18/24 9:52
D5-NEtFOSAA	128		10-200		5/18/24 9:52
D7-NMeFOSE	39.0		10-150		5/18/24 9:52
D9-NEtFOSE	34.1		10-150		5/18/24 9:52
13C3-HFPO-DA	84.6		25-160		5/18/24 9:52

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: CG-2 | Sampled: 5/8/2024 10:40

Sample ID: 24E1437-02

Sample Matrix: Soil

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.074	0.034	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 14:41	TG
gamma-Chlordane [1]	ND	0.074	0.032	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 14:41	TG
Aldrin [1]	ND	0.074	0.0073	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 14:41	TG
alpha-BHC [1]	ND	0.074	0.035	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 14:41	TG
beta-BHC [1]	ND	0.074	0.039	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 14:41	TG
delta-BHC [1]	ND	0.074	0.039	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 14:41	TG
gamma-BHC (Lindane) [1]	ND	0.030	0.010	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 14:41	TG
4,4'-DDD [1]	ND	0.059	0.013	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 14:41	TG
4,4'-DDE [1]	ND	0.059	0.0066	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 14:41	TG
4,4'-DDT [1]	ND	0.059	0.0076	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 14:41	TG
Dieldrin [1]	ND	0.059	0.0071	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 14:41	TG
Endosulfan I [1]	ND	0.074	0.036	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 14:41	TG
Endosulfan II [1]	ND	0.12	0.032	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 14:41	TG
Endosulfan sulfate [1]	ND	0.12	0.029	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 14:41	TG
Endrin [1]	ND	0.12	0.038	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 14:41	TG
Endrin aldehyde [1]	ND	0.12	0.029	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 17:52	TG
Endrin ketone [1]	ND	0.12	0.030	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 14:41	TG
Heptachlor [1]	ND	0.074	0.0081	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 14:41	TG
Heptachlor epoxide [1]	ND	0.074	0.0086	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 14:41	TG
Methoxychlor [2]	ND	0.74	0.071	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 14:41	TG
Toxaphene [1]	ND	1.5	0.62	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 14:41	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	59.6	30-150		5/14/24 14:41
Decachlorobiphenyl [1]	62.7	30-150		5/14/24 17:52
Decachlorobiphenyl [2]	65.1	30-150		5/14/24 14:41
Decachlorobiphenyl [2]	66.5	30-150		5/14/24 17:52
Tetrachloro-m-xylene [1]	66.8	30-150		5/14/24 14:41
Tetrachloro-m-xylene [1]	66.7	30-150		5/14/24 17:52
Tetrachloro-m-xylene [2]	67.2	30-150		5/14/24 14:41
Tetrachloro-m-xylene [2]	67.2	30-150		5/14/24 17:52

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: CG-2 | Sampled: 5/8/2024 10:40

Sample ID: 24E1437-02

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	0.029	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 19:13	SFM
Aroclor-1221 [1]	ND	0.12	0.055	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 19:13	SFM
Aroclor-1232 [1]	ND	0.12	0.029	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 19:13	SFM
Aroclor-1242 [1]	ND	0.12	0.033	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 19:13	SFM
Aroclor-1248 [1]	ND	0.12	0.028	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 19:13	SFM
Aroclor-1254 [1]	0.089	0.12	0.035	mg/Kg dry	4	J	SW-846 8082A	5/10/24	5/14/24 19:13	SFM
Aroclor-1260 [1]	ND	0.12	0.025	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 19:13	SFM
Aroclor-1262 [1]	ND	0.12	0.031	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 19:13	SFM
Aroclor-1268 [1]	ND	0.12	0.031	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 19:13	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	69.3	30-150		5/14/24 19:13
Decachlorobiphenyl [2]	73.3	30-150		5/14/24 19:13
Tetrachloro-m-xylene [1]	78.3	30-150		5/14/24 19:13
Tetrachloro-m-xylene [2]	81.5	30-150		5/14/24 19:13

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: CG-2 | Sampled: 5/8/2024 10:40

Sample ID: 24E1437-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	9600	25	8.0	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:38	ICP
Antimony	ND	2.5	0.68	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 17:37	NC
Arsenic	3.9	5.1	0.71	mg/Kg dry	1	J	SW-846 6010D	5/17/24	5/22/24 20:38	ICP
Barium	80	2.5	0.54	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:38	ICP
Beryllium	0.43	0.25	0.077	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:38	ICP
Cadmium	0.42	0.51	0.24	mg/Kg dry	1	J	SW-846 6010D	5/17/24	5/22/24 20:38	ICP
Calcium	17000	25	13	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:38	ICP
Chromium	14	1.0	0.64	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:38	ICP
Cobalt	7.4	2.5	0.43	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:38	ICP
Copper	36	2.0	1.8	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:38	ICP
Iron	21000	250	120	mg/Kg dry	10		SW-846 6010D	5/17/24	5/22/24 22:53	ICP
Lead	36	0.76	0.53	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:38	ICP
Magnesium	7200	25	5.9	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:38	ICP
Manganese	630	0.51	0.29	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:38	ICP
Mercury	0.056	0.039	0.018	mg/Kg dry	1		SW-846 7471B	5/21/24	5/23/24 15:12	AV
Nickel	17	1.0	0.70	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:38	ICP
Potassium	1800	2500	630	mg/Kg dry	10	D, J	SW-846 6010D	5/17/24	5/22/24 22:53	ICP
Selenium	ND	5.1	1.3	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:38	ICP
Silver	ND	0.51	0.31	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:38	ICP
Sodium	ND	250	75	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:38	ICP
Thallium	ND	2.5	0.81	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 17:37	NC
Vanadium	16	1.0	0.56	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:38	ICP
Zinc	98	1.0	0.89	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:38	ICP

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: CG-2 | Sampled: 5/8/2024 10:40

Sample ID: 24E1437-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	63.0			% Wt	1		SM 2540G	5/13/24	5/13/24 17:51	NC
Cyanide	0.88	0.78	0.59	mg/Kg dry	1		SW-846 9014	5/13/24	5/14/24 11:01	DET

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: B1 | Sampled: 5/8/2024 13:24

Sample ID: 24E1437-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	15000	28	8.8	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:42	ICP
Antimony	ND	2.8	0.74	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 17:44	NC
Arsenic	6.9	5.6	0.79	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:42	ICP
Barium	110	2.8	0.59	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:42	ICP
Beryllium	0.73	0.28	0.085	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:42	ICP
Cadmium	0.47	0.56	0.26	mg/Kg dry	1	J	SW-846 6010D	5/17/24	5/22/24 20:42	ICP
Calcium	6700	28	14	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:42	ICP
Chromium	19	1.1	0.71	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:42	ICP
Cobalt	10	2.8	0.47	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:42	ICP
Copper	38	2.2	2.0	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:42	ICP
Iron	30000	280	130	mg/Kg dry	10		SW-846 6010D	5/17/24	5/22/24 22:59	ICP
Lead	150	0.84	0.59	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:42	ICP
Magnesium	5300	28	6.5	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:42	ICP
Manganese	640	0.56	0.32	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:42	ICP
Mercury	0.14	0.042	0.019	mg/Kg dry	1		SW-846 7471B	5/21/24	5/23/24 15:14	AV
Nickel	24	1.1	0.77	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:42	ICP
Potassium	1400	2800	690	mg/Kg dry	10	D, J	SW-846 6010D	5/17/24	5/22/24 22:59	ICP
Selenium	ND	5.6	1.4	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:42	ICP
Silver	ND	0.56	0.34	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:42	ICP
Sodium	ND	280	83	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:42	ICP
Thallium	ND	2.8	0.89	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 17:44	NC
Vanadium	31	1.1	0.62	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:42	ICP
Zinc	160	1.1	0.98	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:42	ICP

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: B1 | Sampled: 5/8/2024 13:24

Sample ID: 24E1437-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	58.3			% Wt	1		SM 2540G	5/13/24	5/13/24 17:51	NC

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: B1A | Sampled: 5/8/2024 13:27

Sample ID: 24E1437-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.15	0.080	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
Benzene	ND	0.0031	0.00096	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
Bromochloromethane	ND	0.0031	0.0013	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
Bromodichloromethane	ND	0.0031	0.00079	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
Bromoform	ND	0.0031	0.0013	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
Bromomethane	ND	0.015	0.0027	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
2-Butanone (MEK)	ND	0.062	0.013	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
n-Butylbenzene	ND	0.0031	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
sec-Butylbenzene	ND	0.0031	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
tert-Butylbenzene	ND	0.0031	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
Carbon Disulfide	ND	0.031	0.015	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
Carbon Tetrachloride	ND	0.0031	0.00089	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
Chlorobenzene	ND	0.0031	0.00074	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
Chlorodibromomethane	ND	0.0015	0.0010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
Chloroethane	ND	0.031	0.0022	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
Chloroform	ND	0.0062	0.0010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
Chloromethane	ND	0.015	0.0019	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
Cyclohexane	ND	0.015	0.0063	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0031	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
1,2-Dibromoethane (EDB)	ND	0.0015	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
1,2-Dichlorobenzene	ND	0.0031	0.00098	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
1,3-Dichlorobenzene	ND	0.0031	0.00089	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
1,4-Dichlorobenzene	ND	0.0031	0.00095	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.031	0.0013	mg/Kg dry	1	V-05	SW-846 8260D	5/13/24	5/13/24 9:27	MFF
1,1-Dichloroethane	ND	0.0031	0.00094	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
1,2-Dichloroethane	ND	0.0031	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
1,1-Dichloroethylene	ND	0.0062	0.0015	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
cis-1,2-Dichloroethylene	ND	0.0031	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
trans-1,2-Dichloroethylene	ND	0.0031	0.00092	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
1,2-Dichloropropane	ND	0.0031	0.00095	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
cis-1,3-Dichloropropene	ND	0.0015	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
trans-1,3-Dichloropropene	ND	0.0015	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
Ethylbenzene	ND	0.0031	0.00089	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
2-Hexanone (MBK)	ND	0.031	0.011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
Isopropylbenzene (Cumene)	ND	0.0031	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0031	0.0010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
Methyl Acetate	ND	0.0031	0.0020	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0062	0.0014	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
Methyl Cyclohexane	ND	0.0031	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
Methylene Chloride	ND	0.031	0.0014	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.031	0.014	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
Naphthalene	ND	0.0062	0.0015	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
n-Propylbenzene	ND	0.0031	0.0010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
Styrene	ND	0.0031	0.00098	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: B1A | Sampled: 5/8/2024 13:27

Sample ID: 24E1437-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	0.0015	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
Tetrachloroethylene	ND	0.0031	0.0013	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
Toluene	ND	0.0031	0.00091	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
1,2,3-Trichlorobenzene	ND	0.0031	0.0010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
1,2,4-Trichlorobenzene	ND	0.0031	0.0010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
1,1,1-Trichloroethane	ND	0.0031	0.00091	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
1,1,2-Trichloroethane	ND	0.0031	0.00079	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
Trichloroethylene	ND	0.0031	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
Trichlorofluoromethane (Freon 11)	ND	0.015	0.0018	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
1,2,3-Trichloropropane	ND	0.0031	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.015	0.0016	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
1,2,4-Trimethylbenzene	ND	0.0031	0.0015	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
1,3,5-Trimethylbenzene	ND	0.0031	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
Vinyl Chloride	ND	0.015	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
m+p Xylene	ND	0.0062	0.0022	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
o-Xylene	ND	0.0031	0.0010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF
Xylenes (total)	ND	0.0031	0.0031	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:27	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	99.9	70-130		5/13/24 9:27
Toluene-d8	96.0	70-130		5/13/24 9:27
4-Bromofluorobenzene	85.6	70-130		5/13/24 9:27

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: B1A | Sampled: 5/8/2024 13:27

Sample ID: 24E1437-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.77	0.053	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Atrazine	ND	0.77	0.050	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Benzaldehyde	ND	0.39	0.063	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Biphenyl	ND	0.77	0.050	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Caprolactam	ND	0.39	0.068	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Acenaphthene	ND	0.20	0.038	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Acenaphthylene	ND	0.20	0.035	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Acetophenone	ND	0.39	0.041	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Aniline	ND	0.39	0.068	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Anthracene	ND	0.20	0.035	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Benzo(a)anthracene	0.041	0.20	0.032	mg/Kg dry	1	J	SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Benzo(a)pyrene	0.058	0.20	0.035	mg/Kg dry	1	J	SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Benzo(b)fluoranthene	0.064	0.20	0.032	mg/Kg dry	1	J	SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Benzo(g,h,i)perylene	0.065	0.20	0.056	mg/Kg dry	1	J	SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Benzo(k)fluoranthene	ND	0.20	0.035	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Bis(2-chloroethoxy)methane	ND	0.39	0.042	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Bis(2-chloroethyl)ether	ND	0.39	0.056	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Bis(2-chloroisopropyl)ether	ND	0.39	0.25	mg/Kg dry	1	V-06	SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.39	0.046	mg/Kg dry	1	L-05, V-06	SW-846 8270E	5/12/24	5/16/24 17:14	BGL
4-Bromophenylphenylether	ND	0.39	0.036	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Butylbenzylphthalate	ND	0.39	0.044	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Carbazole	ND	0.20	0.040	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
4-Chloroaniline	ND	0.76	0.069	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
4-Chloro-3-methylphenol	ND	0.76	0.041	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
2-Chloronaphthalene	ND	0.39	0.034	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
2-Chlorophenol	ND	0.39	0.039	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
4-Chlorophenylphenylether	ND	0.39	0.032	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Chrysene	0.060	0.20	0.035	mg/Kg dry	1	J	SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Dibenz(a,h)anthracene	ND	0.20	0.054	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Dibenzofuran	ND	0.39	0.035	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Di-n-butylphthalate	ND	0.39	0.15	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
3,3-Dichlorobenzidine	ND	0.20	0.085	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
2,4-Dichlorophenol	ND	0.39	0.037	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Diethylphthalate	ND	0.39	0.038	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
2,4-Dimethylphenol	ND	0.39	0.091	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Dimethylphthalate	ND	0.39	0.037	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
4,6-Dinitro-2-methylphenol	ND	0.39	0.31	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
2,4-Dinitrophenol	ND	0.76	0.30	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
2,4-Dinitrotoluene	ND	0.39	0.040	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
2,6-Dinitrotoluene	ND	0.39	0.041	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Di-n-octylphthalate	ND	0.39	0.055	mg/Kg dry	1	V-20	SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Fluoranthene	0.063	0.20	0.032	mg/Kg dry	1	J	SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Fluorene	ND	0.20	0.035	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Hexachlorobenzene	ND	0.39	0.038	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: B1A | Sampled: 5/8/2024 13:27

Sample ID: 24E1437-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.39	0.035	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Hexachlorocyclopentadiene	ND	0.39	0.26	mg/Kg dry	1	L-04, V-05	SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Hexachloroethane	ND	0.39	0.036	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Isophorone	ND	0.39	0.042	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
1-Methylnaphthalene	ND	0.20	0.039	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
2-Methylnaphthalene	ND	0.20	0.033	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
2-Methylphenol	ND	0.39	0.052	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
3/4-Methylphenol	ND	0.39	0.052	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Naphthalene	ND	0.20	0.069	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
2-Nitroaniline	ND	0.39	0.048	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
3-Nitroaniline	ND	0.39	0.082	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
4-Nitroaniline	ND	0.39	0.044	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Nitrobenzene	ND	0.39	0.049	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
2-Nitrophenol	ND	0.39	0.038	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
4-Nitrophenol	ND	0.76	0.10	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	0.39	0.050	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
N-Nitrosodi-n-propylamine	ND	0.39	0.055	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Pentachlorophenol	ND	0.39	0.14	mg/Kg dry	1	V-05	SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Phenanthrene	ND	0.20	0.035	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Phenol	ND	0.39	0.050	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Pyrene	0.11	0.20	0.041	mg/Kg dry	1	J	SW-846 8270E	5/12/24	5/16/24 17:14	BGL
Pyridine	ND	0.39	0.046	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.39	0.039	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
2,4,5-Trichlorophenol	ND	0.39	0.040	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL
2,4,6-Trichlorophenol	ND	0.39	0.037	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:14	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	63.0	30-130		5/16/24 17:14
Phenol-d6	63.9	30-130		5/16/24 17:14
Nitrobenzene-d5	71.4	30-130		5/16/24 17:14
2-Fluorobiphenyl	69.4	30-130		5/16/24 17:14
2,4,6-Tribromophenol	51.4	30-130		5/16/24 17:14
p-Terphenyl-d14	94.7	30-130		5/16/24 17:14

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: B1A | Sampled: 5/8/2024 13:27

Sample ID: 24E1437-04

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.056	0.044	mg/Kg dry	1		SW-846 8270E	5/10/24	5/13/24 19:43	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	34.3	15-110		5/13/24 19:43

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: B1A | Sampled: 5/8/2024 13:27

Sample ID: 24E1437-04

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.78	0.32	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
Perfluoropentanoic acid (PFPeA)	ND	0.39	0.044	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
Perfluorohexanoic acid (PFHxA)	0.051	0.19	0.032	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 10:08	QNW
Perfluoroheptanoic acid (PFHpA)	0.043	0.19	0.014	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 10:08	QNW
Perfluorooctanoic acid (PFOA)	0.20	0.19	0.030	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
Perfluorononanoic acid (PFNA)	0.031	0.19	0.014	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 10:08	QNW
Perfluorodecanoic acid (PFDA)	0.018	0.19	0.017	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 10:08	QNW
Perfluoroundecanoic acid (PFUnA)	ND	0.19	0.023	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
Perfluorododecanoic acid (PFDoA)	ND	0.19	0.021	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
Perfluorotridecanoic acid (PFTrDA)	ND	0.19	0.022	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
Perfluorotetradecanoic acid (PFTeDA)	ND	0.19	0.020	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
Perfluorobutanesulfonic acid (PFBS)	ND	0.19	0.020	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
Perfluoropentanesulfonic acid (PFPeS)	ND	0.19	0.025	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
Perfluorohexanesulfonic acid (PFHxS)	ND	0.19	0.077	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.19	0.021	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
Perfluorooctanesulfonic acid (PFOS)	0.14	0.19	0.031	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 10:08	QNW
Perfluorononanesulfonic acid (PFNS)	ND	0.19	0.022	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
Perfluorodecanesulfonic acid (PFDS)	ND	0.19	0.031	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
Perfluorododecanesulfonic acid (PFDoS)	ND	0.19	0.030	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.78	0.068	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.78	0.49	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.78	0.091	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
Perfluorooctanesulfonamide (PFOSA)	ND	0.19	0.030	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.19	0.024	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.19	0.023	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
N-MeFOSAA (NMeFOSAA)	ND	0.19	0.035	µg/kg dry	1	V-05	Draft Method 1633	5/15/24	5/18/24 10:08	QNW
N-EtFOSAA (NEtFOSAA)	ND	0.19	0.029	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	1.9	0.21	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	1.9	0.21	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.78	0.050	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.78	0.058	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
9Cl-PF3ONS (F53B Minor)	ND	0.78	0.056	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
11Cl-PF3OUdS (F53B Major)	ND	0.78	0.086	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	1.9	0.19	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	9.7	1.3	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	9.7	1.5	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.39	0.031	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.39	0.032	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: B1A | Sampled: 5/8/2024 13:27

Sample ID: 24E1437-04

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.39	0.032	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.39	0.059	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:08	QNW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	85.3	10-130		5/18/24 10:08
13C5-PFPeA	88.3	35-150		5/18/24 10:08
13C5-PFHxA	85.7	55-150		5/18/24 10:08
13C4-PFHpA	90.7	55-150		5/18/24 10:08
13C8-PFOA	88.0	60-140		5/18/24 10:08
13C9-PFNA	87.5	55-140		5/18/24 10:08
13C6-PFDA	84.8	50-140		5/18/24 10:08
13C7-PFUnA	89.1	30-140		5/18/24 10:08
13C2-PFDoA	83.1	10-150		5/18/24 10:08
13C2-PFTeDA	78.0	10-130		5/18/24 10:08
13C3-PFBS	89.9	55-150		5/18/24 10:08
13C3-PFHxS	86.7	55-150		5/18/24 10:08
13C8-PFOS	82.2	45-140		5/18/24 10:08
13C2-4:2FTS	111	60-200		5/18/24 10:08
13C2-6:2FTS	117	60-200		5/18/24 10:08
13C2-8:2FTS	126	50-200		5/18/24 10:08
13C8-PFOSA	72.6	30-130		5/18/24 10:08
D3-NMeFOSA	39.2	15-130		5/18/24 10:08
D5-NEtFOSA	35.2	10-130		5/18/24 10:08
D3-NMeFOSAA	115	45-200		5/18/24 10:08
D5-NEtFOSAA	98.5	10-200		5/18/24 10:08
D7-NMeFOSE	53.0	10-150		5/18/24 10:08
D9-NEtFOSE	48.4	10-150		5/18/24 10:08
13C3-HFPO-DA	89.1	25-160		5/18/24 10:08

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: B1A | Sampled: 5/8/2024 13:27

Sample ID: 24E1437-04

Sample Matrix: Soil

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.11	0.051	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 14:53	TG
gamma-Chlordane [1]	ND	0.11	0.047	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 14:53	TG
Aldrin [1]	ND	0.11	0.011	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 14:53	TG
alpha-BHC [1]	ND	0.11	0.052	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 14:53	TG
beta-BHC [1]	ND	0.11	0.058	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 14:53	TG
delta-BHC [1]	ND	0.11	0.058	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 14:53	TG
gamma-BHC (Lindane) [1]	ND	0.044	0.015	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 14:53	TG
4,4'-DDD [1]	ND	0.087	0.019	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 14:53	TG
4,4'-DDE [1]	ND	0.087	0.0096	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 14:53	TG
4,4'-DDT [2]	0.021	0.087	0.012	mg/Kg dry	20	J	SW-846 8081B	5/10/24	5/14/24 14:53	TG
Dieldrin [1]	ND	0.087	0.010	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 14:53	TG
Endosulfan I [1]	ND	0.11	0.052	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 14:53	TG
Endosulfan II [1]	ND	0.17	0.047	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 14:53	TG
Endosulfan sulfate [1]	ND	0.17	0.042	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 14:53	TG
Endrin [1]	ND	0.17	0.055	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 14:53	TG
Endrin aldehyde [1]	ND	0.17	0.043	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 18:04	TG
Endrin ketone [1]	ND	0.17	0.044	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 14:53	TG
Heptachlor [1]	ND	0.11	0.012	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 14:53	TG
Heptachlor epoxide [1]	ND	0.11	0.013	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 14:53	TG
Methoxychlor [2]	ND	1.1	0.11	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 14:53	TG
Toxaphene [1]	ND	2.2	0.91	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 14:53	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.3	30-150		5/14/24 14:53
Decachlorobiphenyl [1]	87.9	30-150		5/14/24 18:04
Decachlorobiphenyl [2]	91.6	30-150		5/14/24 14:53
Decachlorobiphenyl [2]	92.8	30-150		5/14/24 18:04
Tetrachloro-m-xylene [1]	91.7	30-150		5/14/24 14:53
Tetrachloro-m-xylene [1]	93.1	30-150		5/14/24 18:04
Tetrachloro-m-xylene [2]	90.5	30-150		5/14/24 14:53
Tetrachloro-m-xylene [2]	92.4	30-150		5/14/24 18:04

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: B1A | Sampled: 5/8/2024 13:27

Sample ID: 24E1437-04

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	0.022	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 19:30	SFM
Aroclor-1221 [1]	ND	0.087	0.040	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 19:30	SFM
Aroclor-1232 [1]	ND	0.087	0.021	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 19:30	SFM
Aroclor-1242 [1]	ND	0.087	0.024	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 19:30	SFM
Aroclor-1248 [1]	ND	0.087	0.021	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 19:30	SFM
Aroclor-1254 [1]	ND	0.087	0.026	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 19:30	SFM
Aroclor-1260 [1]	ND	0.087	0.018	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 19:30	SFM
Aroclor-1262 [1]	ND	0.087	0.023	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 19:30	SFM
Aroclor-1268 [1]	ND	0.087	0.023	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 19:30	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.6	30-150		5/14/24 19:30
Decachlorobiphenyl [2]	87.8	30-150		5/14/24 19:30
Tetrachloro-m-xylene [1]	93.4	30-150		5/14/24 19:30
Tetrachloro-m-xylene [2]	96.8	30-150		5/14/24 19:30

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: B1A | Sampled: 5/8/2024 13:27

Sample ID: 24E1437-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	9500	190	59	mg/Kg dry	10		SW-846 6010D	5/17/24	5/22/24 23:04	ICP
Antimony	ND	1.9	0.50	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 17:51	NC
Arsenic	5.2	3.8	0.53	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:47	ICP
Barium	69	19	4.0	mg/Kg dry	10		SW-846 6010D	5/17/24	5/22/24 23:04	ICP
Beryllium	0.40	0.19	0.057	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:47	ICP
Cadmium	0.28	0.38	0.18	mg/Kg dry	1	J	SW-846 6010D	5/17/24	5/22/24 20:47	ICP
Calcium	41000	190	98	mg/Kg dry	10		SW-846 6010D	5/17/24	5/22/24 23:04	ICP
Chromium	10	0.75	0.48	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:47	ICP
Cobalt	6.6	1.9	0.32	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:47	ICP
Copper	20	1.5	1.3	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:47	ICP
Iron	20000	190	87	mg/Kg dry	10		SW-846 6010D	5/17/24	5/22/24 23:04	ICP
Lead	55	0.57	0.40	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:47	ICP
Magnesium	12000	190	44	mg/Kg dry	10		SW-846 6010D	5/17/24	5/22/24 23:04	ICP
Manganese	650	0.38	0.21	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:47	ICP
Mercury	0.11	0.029	0.013	mg/Kg dry	1		SW-846 7471B	5/21/24	5/23/24 15:17	AV
Nickel	15	0.75	0.52	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:47	ICP
Potassium	750	190	47	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:47	ICP
Selenium	ND	3.8	0.93	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:47	ICP
Silver	ND	0.38	0.23	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:47	ICP
Sodium	ND	190	56	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:47	ICP
Thallium	ND	1.9	0.60	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 17:51	NC
Vanadium	23	0.75	0.42	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:47	ICP
Zinc	68	0.75	0.66	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:47	ICP

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: B1A | Sampled: 5/8/2024 13:27

Sample ID: 24E1437-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.5			% Wt	1		SM 2540G	5/13/24	5/13/24 17:51	NC
Cyanide	ND	0.55	0.41	mg/Kg dry	1		SW-846 9014	5/15/24	5/16/24 12:12	DET

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB1 | Sampled: 5/8/2024 14:06

Sample ID: 24E1437-05

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	15000	24	7.6	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:51	ICP
Antimony	ND	2.4	0.64	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 17:58	NC
Arsenic	4.4	4.8	0.68	mg/Kg dry	1	J	SW-846 6010D	5/17/24	5/22/24 20:51	ICP
Barium	91	2.4	0.51	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:51	ICP
Beryllium	0.70	0.24	0.073	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:51	ICP
Cadmium	0.29	0.48	0.23	mg/Kg dry	1	J	SW-846 6010D	5/17/24	5/22/24 20:51	ICP
Calcium	4100	24	13	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:51	ICP
Chromium	18	0.97	0.61	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:51	ICP
Cobalt	11	2.4	0.41	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:51	ICP
Copper	37	1.9	1.7	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:51	ICP
Iron	30000	240	110	mg/Kg dry	10		SW-846 6010D	5/17/24	5/22/24 23:10	ICP
Lead	45	0.72	0.51	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:51	ICP
Magnesium	4200	24	5.6	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:51	ICP
Manganese	510	0.48	0.27	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:51	ICP
Mercury	0.063	0.035	0.016	mg/Kg dry	1		SW-846 7471B	5/21/24	5/23/24 15:19	AV
Nickel	26	0.97	0.67	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:51	ICP
Potassium	910	240	60	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:51	ICP
Selenium	ND	4.8	1.2	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:51	ICP
Silver	ND	0.48	0.30	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:51	ICP
Sodium	ND	240	72	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:51	ICP
Thallium	ND	2.4	0.77	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 17:58	NC
Vanadium	22	0.97	0.53	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:51	ICP
Zinc	94	0.97	0.85	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:51	ICP

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB1 | Sampled: 5/8/2024 14:06

Sample ID: 24E1437-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	68.3			% Wt	1		SM 2540G	5/13/24	5/13/24 17:51	NC

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB1A

Sample ID: 24E1437-06 | Start Date/Time: 5/8/2024 2:10:00PM

Sample Matrix: Soil | Stop Date/Time: 5/8/2024 2:19:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.13	0.065	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
Benzene	ND	0.0025	0.00079	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
Bromochloromethane	ND	0.0025	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
Bromodichloromethane	ND	0.0025	0.00064	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
Bromoform	ND	0.0025	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
Bromomethane	ND	0.013	0.0022	mg/Kg dry	1	MS-07A	SW-846 8260D	5/13/24	5/13/24 7:16	MFF
2-Butanone (MEK)	ND	0.050	0.011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
n-Butylbenzene	ND	0.0025	0.00091	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
sec-Butylbenzene	ND	0.0025	0.0010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
tert-Butylbenzene	ND	0.0025	0.00091	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
Carbon Disulfide	ND	0.025	0.013	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
Carbon Tetrachloride	ND	0.0025	0.00073	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
Chlorobenzene	ND	0.0025	0.00061	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
Chlorodibromomethane	ND	0.0013	0.00083	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
Chloroethane	ND	0.025	0.0018	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
Chloroform	ND	0.0050	0.00082	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
Chloromethane	ND	0.013	0.0015	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
Cyclohexane	ND	0.013	0.0051	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0025	0.0010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
1,2-Dibromoethane (EDB)	ND	0.0013	0.00092	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
1,2-Dichlorobenzene	ND	0.0025	0.00080	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
1,3-Dichlorobenzene	ND	0.0025	0.00072	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
1,4-Dichlorobenzene	ND	0.0025	0.00078	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.025	0.0011	mg/Kg dry	1	V-05	SW-846 8260D	5/13/24	5/13/24 7:16	MFF
1,1-Dichloroethane	ND	0.0025	0.00076	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
1,2-Dichloroethane	ND	0.0025	0.00086	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
1,1-Dichloroethylene	ND	0.0050	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
cis-1,2-Dichloroethylene	ND	0.0025	0.00087	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
trans-1,2-Dichloroethylene	ND	0.0025	0.00075	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
1,2-Dichloropropane	ND	0.0025	0.00077	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
cis-1,3-Dichloropropene	ND	0.0013	0.00095	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
trans-1,3-Dichloropropene	ND	0.0013	0.00097	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
Ethylbenzene	ND	0.0025	0.00072	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
2-Hexanone (MBK)	ND	0.025	0.0086	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
Isopropylbenzene (Cumene)	ND	0.0025	0.00097	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0025	0.00081	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
Methyl Acetate	ND	0.0025	0.0017	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0050	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
Methyl Cyclohexane	ND	0.0025	0.00090	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
Methylene Chloride	ND	0.025	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.025	0.011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
Naphthalene	ND	0.0050	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
n-Propylbenzene	ND	0.0025	0.00083	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
Styrene	ND	0.0025	0.00080	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB1A

Sample ID: 24E1437-06 | Start Date/Time: 5/8/2024 2:10:00PM

Sample Matrix: Soil | Stop Date/Time: 5/8/2024 2:19:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	0.0013	0.00097	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
Tetrachloroethylene	ND	0.0025	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
Toluene	ND	0.0025	0.00074	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
1,2,3-Trichlorobenzene	ND	0.0025	0.00083	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
1,2,4-Trichlorobenzene	ND	0.0025	0.00083	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
1,1,1-Trichloroethane	ND	0.0025	0.00074	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
1,1,2-Trichloroethane	ND	0.0025	0.00065	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
Trichloroethylene	ND	0.0025	0.00095	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
Trichlorofluoromethane (Freon 11)	ND	0.013	0.0015	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
1,2,3-Trichloropropane	ND	0.0025	0.0010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.013	0.0013	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
1,2,4-Trimethylbenzene	ND	0.0025	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
1,3,5-Trimethylbenzene	ND	0.0025	0.0010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
Vinyl Chloride	ND	0.013	0.00098	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
m+p Xylene	ND	0.0050	0.0018	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
o-Xylene	ND	0.0025	0.00085	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF
Xylenes (total)	ND	0.0025	0.0025	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 7:16	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	103	70-130		5/13/24 7:16
Toluene-d8	92.7	70-130		5/13/24 7:16
4-Bromofluorobenzene	82.9	70-130		5/13/24 7:16

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB1A

Sample ID: 24E1437-06 | Start Date/Time: 5/8/2024 2:10:00PM

Sample Matrix: Soil | Stop Date/Time: 5/8/2024 2:19:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.92	0.063	mg/Kg dry	1	MS-09	SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Atrazine	ND	0.92	0.060	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Benzaldehyde	ND	0.47	0.075	mg/Kg dry	1	MS-09	SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Biphenyl	ND	0.92	0.059	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Caprolactam	ND	0.47	0.081	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Acenaphthene	ND	0.23	0.045	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Acenaphthylene	ND	0.23	0.042	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Acetophenone	ND	0.47	0.049	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Aniline	ND	0.47	0.081	mg/Kg dry	1	MS-09	SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Anthracene	ND	0.23	0.041	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Benzo(a)anthracene	ND	0.23	0.038	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Benzo(a)pyrene	ND	0.23	0.042	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Benzo(b)fluoranthene	ND	0.23	0.038	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Benzo(g,h,i)perylene	ND	0.23	0.067	mg/Kg dry	1	MS-09	SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Benzo(k)fluoranthene	ND	0.23	0.042	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Bis(2-chloroethoxy)methane	ND	0.47	0.050	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Bis(2-chloroethyl)ether	ND	0.47	0.067	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Bis(2-chloroisopropyl)ether	ND	0.47	0.30	mg/Kg dry	1	V-06	SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.47	0.055	mg/Kg dry	1	L-05, V-06	SW-846 8270E	5/12/24	5/16/24 17:34	BGL
4-Bromophenylphenylether	ND	0.47	0.043	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Butylbenzylphthalate	ND	0.47	0.052	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Carbazole	ND	0.23	0.047	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
4-Chloroaniline	ND	0.91	0.083	mg/Kg dry	1	MS-09	SW-846 8270E	5/12/24	5/16/24 17:34	BGL
4-Chloro-3-methylphenol	ND	0.91	0.049	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
2-Chloronaphthalene	ND	0.47	0.041	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
2-Chlorophenol	ND	0.47	0.047	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
4-Chlorophenylphenylether	ND	0.47	0.039	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Chrysene	ND	0.23	0.042	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Dibenz(a,h)anthracene	ND	0.23	0.065	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Dibenzofuran	ND	0.47	0.042	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Di-n-butylphthalate	ND	0.47	0.18	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
3,3-Dichlorobenzidine	ND	0.23	0.10	mg/Kg dry	1	MS-09	SW-846 8270E	5/12/24	5/16/24 17:34	BGL
2,4-Dichlorophenol	ND	0.47	0.044	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Diethylphthalate	ND	0.47	0.045	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
2,4-Dimethylphenol	ND	0.47	0.11	mg/Kg dry	1	MS-09	SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Dimethylphthalate	ND	0.47	0.044	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
4,6-Dinitro-2-methylphenol	ND	0.47	0.37	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
2,4-Dinitrophenol	ND	0.91	0.36	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
2,4-Dinitrotoluene	ND	0.47	0.047	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
2,6-Dinitrotoluene	ND	0.47	0.049	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Di-n-octylphthalate	ND	0.47	0.066	mg/Kg dry	1	V-20	SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Fluoranthene	0.071	0.23	0.038	mg/Kg dry	1	MS-09, J	SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Fluorene	ND	0.23	0.042	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Hexachlorobenzene	ND	0.47	0.045	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB1A

Sample ID: 24E1437-06 | Start Date/Time: 5/8/2024 2:10:00PM

Sample Matrix: Soil | Stop Date/Time: 5/8/2024 2:19:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.47	0.042	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Hexachlorocyclopentadiene	ND	0.47	0.31	mg/Kg dry	1	L-04, MS-09, V-05	SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Hexachloroethane	ND	0.47	0.043	mg/Kg dry	1	MS-09	SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Indeno(1,2,3-cd)pyrene	ND	0.23	0.076	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Isophorone	ND	0.47	0.050	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
1-Methylnaphthalene	ND	0.23	0.047	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
2-Methylnaphthalene	ND	0.23	0.040	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
2-Methylphenol	ND	0.47	0.063	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
3/4-Methylphenol	ND	0.47	0.062	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Naphthalene	ND	0.23	0.082	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
2-Nitroaniline	ND	0.47	0.057	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
3-Nitroaniline	ND	0.47	0.097	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
4-Nitroaniline	ND	0.47	0.052	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Nitrobenzene	ND	0.47	0.059	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
2-Nitrophenol	ND	0.47	0.046	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
4-Nitrophenol	ND	0.91	0.12	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	0.47	0.059	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
N-Nitrosodi-n-propylamine	ND	0.47	0.065	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Pentachlorophenol	ND	0.47	0.17	mg/Kg dry	1	MS-09, V-05	SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Phenanthrene	ND	0.23	0.042	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Phenol	ND	0.47	0.059	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Pyrene	0.082	0.23	0.049	mg/Kg dry	1	J	SW-846 8270E	5/12/24	5/16/24 17:34	BGL
Pyridine	ND	0.47	0.055	mg/Kg dry	1	MS-09	SW-846 8270E	5/12/24	5/16/24 17:34	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.47	0.046	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
2,4,5-Trichlorophenol	ND	0.47	0.048	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL
2,4,6-Trichlorophenol	ND	0.47	0.044	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:34	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	40.4	30-130		5/16/24 17:34
Phenol-d6	38.9	30-130		5/16/24 17:34
Nitrobenzene-d5	43.1	30-130		5/16/24 17:34
2-Fluorobiphenyl	43.4	30-130		5/16/24 17:34
2,4,6-Tribromophenol	33.9	30-130		5/16/24 17:34
p-Terphenyl-d14	58.2	30-130		5/16/24 17:34

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB1A

Sample ID: 24E1437-06 | Start Date/Time: 5/8/2024 2:10:00PM

Sample Matrix: Soil | Stop Date/Time: 5/8/2024 2:19:00PM

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.068	0.054	mg/Kg dry	1		SW-846 8270E	5/10/24	5/13/24 17:42	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	38.4	15-110		5/13/24 17:42

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB1A

Sample ID: 24E1437-06 | Start Date/Time: 5/8/2024 2:10:00PM

Sample Matrix: Soil | Stop Date/Time: 5/8/2024 2:19:00PM

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.80	0.32	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW
Perfluoropentanoic acid (PFPeA)	0.050	0.40	0.045	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 10:24	QNW
Perfluorohexanoic acid (PFHxA)	0.053	0.20	0.033	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 10:24	QNW
Perfluoroheptanoic acid (PFHpA)	0.048	0.20	0.014	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 10:24	QNW
Perfluorooctanoic acid (PFOA)	0.20	0.20	0.031	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 10:24	QNW
Perfluorononanoic acid (PFNA)	0.077	0.20	0.014	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 10:24	QNW
Perfluorodecanoic acid (PFDA)	0.043	0.20	0.018	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 10:24	QNW
Perfluoroundecanoic acid (PFUnA)	0.044	0.20	0.023	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 10:24	QNW
Perfluorododecanoic acid (PFDoA)	ND	0.20	0.022	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW
Perfluorotridecanoic acid (PFTrDA)	ND	0.20	0.022	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW
Perfluorotetradecanoic acid (PFTeDA)	ND	0.20	0.020	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW
Perfluorobutanesulfonic acid (PFBS)	ND	0.20	0.021	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW
Perfluoropentanesulfonic acid (PFPeS)	ND	0.20	0.026	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW
Perfluorohexanesulfonic acid (PFHxS)	ND	0.20	0.078	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.20	0.021	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW
Perfluorooctanesulfonic acid (PFOS)	0.25	0.20	0.032	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW
Perfluorononanesulfonic acid (PFNS)	ND	0.20	0.022	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW
Perfluorodecanesulfonic acid (PFDS)	ND	0.20	0.032	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW
Perfluorododecanesulfonic acid (PFDoS)	ND	0.20	0.030	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.80	0.070	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.80	0.50	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.80	0.093	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW
Perfluorooctanesulfonamide (PFOSA)	ND	0.20	0.031	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.20	0.025	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.20	0.023	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW
N-MeFOSAA (NMeFOSAA)	ND	0.20	0.036	µg/kg dry	1	V-05	Draft Method 1633	5/15/24	5/18/24 10:24	QNW
N-EtFOSAA (NEtFOSAA)	ND	0.20	0.030	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	2.0	0.22	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	2.0	0.21	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.80	0.051	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.80	0.060	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW
9Cl-PF3ONS (F53B Minor)	ND	0.80	0.058	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW
11Cl-PF3OUdS (F53B Major)	ND	0.80	0.088	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	2.0	0.19	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	10	1.3	µg/kg dry	1	MS-07A	Draft Method 1633	5/15/24	5/18/24 10:24	QNW
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	10	1.5	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.40	0.031	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.40	0.033	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB1A

Sample ID: 24E1437-06 | Start Date/Time: 5/8/2024 2:10:00PM

Sample Matrix: Soil | Stop Date/Time: 5/8/2024 2:19:00PM

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.40	0.033	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.40	0.060	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 10:24	QNW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	78.4	10-130		5/18/24 10:24
13C5-PFPeA	84.1	35-150		5/18/24 10:24
13C5-PFHxA	82.0	55-150		5/18/24 10:24
13C4-PFHpA	88.4	55-150		5/18/24 10:24
13C8-PFOA	81.9	60-140		5/18/24 10:24
13C9-PFNA	80.9	55-140		5/18/24 10:24
13C6-PFDA	82.3	50-140		5/18/24 10:24
13C7-PFUnA	88.0	30-140		5/18/24 10:24
13C2-PFDoA	82.7	10-150		5/18/24 10:24
13C2-PFTeDA	76.0	10-130		5/18/24 10:24
13C3-PFBS	82.3	55-150		5/18/24 10:24
13C3-PFHxS	78.4	55-150		5/18/24 10:24
13C8-PFOS	79.5	45-140		5/18/24 10:24
13C2-4:2FTS	97.6	60-200		5/18/24 10:24
13C2-6:2FTS	100	60-200		5/18/24 10:24
13C2-8:2FTS	106	50-200		5/18/24 10:24
13C8-PFOSA	70.5	30-130		5/18/24 10:24
D3-NMeFOSA	38.1	15-130		5/18/24 10:24
D5-NEtFOSA	35.9	10-130		5/18/24 10:24
D3-NMeFOSAA	113	45-200		5/18/24 10:24
D5-NEtFOSAA	96.6	10-200		5/18/24 10:24
D7-NMeFOSE	53.9	10-150		5/18/24 10:24
D9-NEtFOSE	51.8	10-150		5/18/24 10:24
13C3-HFPO-DA	86.2	25-160		5/18/24 10:24

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB1A

Sample ID: 24E1437-06 | Start Date/Time: 5/8/2024 2:10:00PM

Sample Matrix: Soil | Stop Date/Time: 5/8/2024 2:19:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.0066	0.0031	mg/Kg dry	1		SW-846 8081B	5/10/24	5/14/24 15:05	TG
gamma-Chlordane [1]	ND	0.0066	0.0029	mg/Kg dry	1		SW-846 8081B	5/10/24	5/14/24 15:05	TG
Aldrin [1]	ND	0.0066	0.00065	mg/Kg dry	1		SW-846 8081B	5/10/24	5/14/24 15:05	TG
alpha-BHC [1]	ND	0.0066	0.0031	mg/Kg dry	1		SW-846 8081B	5/10/24	5/14/24 15:05	TG
beta-BHC [1]	ND	0.0066	0.0035	mg/Kg dry	1		SW-846 8081B	5/10/24	5/14/24 15:05	TG
delta-BHC [1]	ND	0.0066	0.0035	mg/Kg dry	1		SW-846 8081B	5/10/24	5/14/24 15:05	TG
gamma-BHC (Lindane) [1]	ND	0.0026	0.00092	mg/Kg dry	1		SW-846 8081B	5/10/24	5/14/24 15:05	TG
4,4'-DDD [1]	ND	0.0053	0.0011	mg/Kg dry	1		SW-846 8081B	5/10/24	5/14/24 15:05	TG
4,4'-DDE [1]	ND	0.0053	0.00058	mg/Kg dry	1		SW-846 8081B	5/10/24	5/14/24 15:05	TG
4,4'-DDT [1]	ND	0.0053	0.00068	mg/Kg dry	1		SW-846 8081B	5/10/24	5/14/24 15:05	TG
Dieldrin [1]	ND	0.0053	0.00063	mg/Kg dry	1		SW-846 8081B	5/10/24	5/14/24 15:05	TG
Endosulfan I [1]	ND	0.0066	0.0032	mg/Kg dry	1		SW-846 8081B	5/10/24	5/14/24 15:05	TG
Endosulfan II [1]	ND	0.011	0.0028	mg/Kg dry	1		SW-846 8081B	5/10/24	5/14/24 15:05	TG
Endosulfan sulfate [1]	ND	0.011	0.0026	mg/Kg dry	1		SW-846 8081B	5/10/24	5/14/24 15:05	TG
Endrin [1]	ND	0.011	0.0034	mg/Kg dry	1		SW-846 8081B	5/10/24	5/14/24 15:05	TG
Endrin aldehyde [1]	ND	0.011	0.0026	mg/Kg dry	1		SW-846 8081B	5/10/24	5/14/24 18:16	TG
Endrin ketone [1]	ND	0.011	0.0027	mg/Kg dry	1		SW-846 8081B	5/10/24	5/14/24 15:05	TG
Heptachlor [1]	ND	0.0066	0.00073	mg/Kg dry	1		SW-846 8081B	5/10/24	5/14/24 15:05	TG
Heptachlor epoxide [1]	ND	0.0066	0.00077	mg/Kg dry	1		SW-846 8081B	5/10/24	5/14/24 15:05	TG
Methoxychlor [2]	ND	0.066	0.0064	mg/Kg dry	1		SW-846 8081B	5/10/24	5/14/24 15:05	TG
Toxaphene [1]	ND	0.13	0.055	mg/Kg dry	1		SW-846 8081B	5/10/24	5/14/24 15:05	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	66.2	30-150		5/14/24 15:05
Decachlorobiphenyl [1]	66.1	30-150		5/14/24 18:16
Decachlorobiphenyl [2]	71.4	30-150		5/14/24 15:05
Decachlorobiphenyl [2]	71.8	30-150		5/14/24 18:16
Tetrachloro-m-xylene [1]	62.1	30-150		5/14/24 15:05
Tetrachloro-m-xylene [1]	63.8	30-150		5/14/24 18:16
Tetrachloro-m-xylene [2]	64.2	30-150		5/14/24 15:05
Tetrachloro-m-xylene [2]	64.4	30-150		5/14/24 18:16

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB1A

Sample ID: 24E1437-06 | Start Date/Time: 5/8/2024 2:10:00PM

Sample Matrix: Soil | Stop Date/Time: 5/8/2024 2:19:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	0.026	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 19:47	SFM
Aroclor-1221 [1]	ND	0.10	0.048	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 19:47	SFM
Aroclor-1232 [1]	ND	0.10	0.025	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 19:47	SFM
Aroclor-1242 [1]	ND	0.10	0.029	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 19:47	SFM
Aroclor-1248 [1]	ND	0.10	0.025	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 19:47	SFM
Aroclor-1254 [1]	ND	0.10	0.031	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 19:47	SFM
Aroclor-1260 [1]	ND	0.10	0.022	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 19:47	SFM
Aroclor-1262 [1]	ND	0.10	0.027	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 19:47	SFM
Aroclor-1268 [1]	ND	0.10	0.027	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 19:47	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.8	30-150		5/14/24 19:47
Decachlorobiphenyl [2]	82.3	30-150		5/14/24 19:47
Tetrachloro-m-xylene [1]	83.4	30-150		5/14/24 19:47
Tetrachloro-m-xylene [2]	87.6	30-150		5/14/24 19:47

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB1A

Sample ID: 24E1437-06 | Start Date/Time: 5/8/2024 2:10:00PM

Sample Matrix: Soil | Stop Date/Time: 5/8/2024 2:19:00PM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	16000	22	7.1	mg/Kg dry	1	MS-19	SW-846 6010D	5/17/24	5/22/24 20:26	ICP
Antimony	ND	2.2	0.60	mg/Kg dry	1	Z-01	SW-846 6010D	5/17/24	5/27/24 18:18	NC
Arsenic	5.4	4.5	0.63	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:26	ICP
Barium	91	2.2	0.48	mg/Kg dry	1	MS-22	SW-846 6010D	5/17/24	5/22/24 20:26	ICP
Beryllium	0.69	0.22	0.068	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:26	ICP
Cadmium	0.26	0.45	0.21	mg/Kg dry	1	J	SW-846 6010D	5/17/24	5/22/24 20:26	ICP
Calcium	5300	22	12	mg/Kg dry	1	MS-19	SW-846 6010D	5/17/24	5/22/24 20:26	ICP
Chromium	17	0.90	0.57	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:26	ICP
Cobalt	11	2.2	0.38	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:26	ICP
Copper	34	1.8	1.6	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:26	ICP
Iron	29000	220	100	mg/Kg dry	10	MS-19	SW-846 6010D	5/17/24	5/22/24 23:16	ICP
Lead	41	0.67	0.47	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:26	ICP
Magnesium	4200	22	5.2	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:26	ICP
Manganese	560	0.45	0.25	mg/Kg dry	1	MS-19	SW-846 6010D	5/17/24	5/22/24 20:26	ICP
Mercury	0.057	0.033	0.015	mg/Kg dry	1		SW-846 7471B	5/21/24	5/23/24 15:22	AV
Nickel	24	0.90	0.62	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:26	ICP
Potassium	890	220	55	mg/Kg dry	1	MS-22	SW-846 6010D	5/17/24	5/22/24 20:26	ICP
Selenium	ND	4.5	1.1	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:26	ICP
Silver	ND	0.45	0.28	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:26	ICP
Sodium	ND	220	67	mg/Kg dry	1	MS-22	SW-846 6010D	5/17/24	5/22/24 20:26	ICP
Thallium	ND	2.2	0.72	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 18:18	NC
Vanadium	22	0.90	0.50	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:26	ICP
Zinc	88	0.90	0.79	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:26	ICP

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB1A

Sample ID: 24E1437-06 | Start Date/Time: 5/8/2024 2:10:00PM

Sample Matrix: Soil | Stop Date/Time: 5/8/2024 2:19:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	72.5			% Wt	1		SM 2540G	5/13/24	5/13/24 17:51	NC
Cyanide	ND	0.64	0.48	mg/Kg dry	1		SW-846 9014	5/13/24	5/14/24 11:01	DET

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB2 | Sampled: 5/8/2024 14:34

Sample ID: 24E1437-07

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	16000	23	7.3	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:56	ICP
Antimony	ND	2.3	0.62	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 18:25	NC
Arsenic	5.5	4.6	0.65	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:56	ICP
Barium	160	2.3	0.49	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:56	ICP
Beryllium	1.1	0.23	0.070	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:56	ICP
Cadmium	0.30	0.46	0.22	mg/Kg dry	1	J	SW-846 6010D	5/17/24	5/22/24 20:56	ICP
Calcium	4200	23	12	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:56	ICP
Chromium	25	0.92	0.58	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:56	ICP
Cobalt	16	2.3	0.39	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:56	ICP
Copper	88	1.8	1.6	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:56	ICP
Iron	35000	230	110	mg/Kg dry	10		SW-846 6010D	5/17/24	5/22/24 23:21	ICP
Lead	200	0.69	0.49	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:56	ICP
Magnesium	5200	23	5.4	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:56	ICP
Manganese	740	0.46	0.26	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:56	ICP
Mercury	0.083	0.034	0.015	mg/Kg dry	1		SW-846 7471B	5/21/24	5/23/24 15:25	AV
Nickel	52	0.92	0.64	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:56	ICP
Potassium	1800	2300	570	mg/Kg dry	10	D, J	SW-846 6010D	5/17/24	5/22/24 23:21	ICP
Selenium	ND	4.6	1.1	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:56	ICP
Silver	ND	0.46	0.28	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:56	ICP
Sodium	ND	230	69	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:56	ICP
Thallium	ND	2.3	0.74	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 18:25	NC
Vanadium	26	0.92	0.51	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:56	ICP
Zinc	210	0.92	0.81	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 20:56	ICP

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB2 | Sampled: 5/8/2024 14:34

Sample ID: 24E1437-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	71.0			% Wt	1		SM 2540G	5/13/24	5/13/24 17:51	NC

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB2A | Sampled: 5/8/2024 14:34

Sample ID: 24E1437-08

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	16000	21	6.5	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:15	ICP
Antimony	ND	2.1	0.55	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 18:32	NC
Arsenic	6.3	4.1	0.58	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:15	ICP
Barium	130	2.1	0.44	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:15	ICP
Beryllium	0.77	0.21	0.063	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:15	ICP
Cadmium	0.26	0.41	0.20	mg/Kg dry	1	J	SW-846 6010D	5/17/24	5/22/24 21:15	ICP
Calcium	9700	21	11	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:15	ICP
Chromium	20	0.82	0.52	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:15	ICP
Cobalt	14	2.1	0.35	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:15	ICP
Copper	180	1.6	1.5	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:15	ICP
Iron	34000	210	95	mg/Kg dry	10		SW-846 6010D	5/17/24	5/22/24 23:27	ICP
Lead	120	0.62	0.43	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:15	ICP
Magnesium	6000	21	4.8	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:15	ICP
Manganese	820	0.41	0.23	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:15	ICP
Mercury	0.071	0.028	0.013	mg/Kg dry	1		SW-846 7471B	5/21/24	5/23/24 15:27	AV
Nickel	57	0.82	0.57	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:15	ICP
Potassium	1600	2100	510	mg/Kg dry	10	D, J	SW-846 6010D	5/17/24	5/22/24 23:27	ICP
Selenium	ND	4.1	1.0	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:15	ICP
Silver	ND	0.41	0.25	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:15	ICP
Sodium	67	210	61	mg/Kg dry	1	J	SW-846 6010D	5/17/24	5/22/24 21:15	ICP
Thallium	ND	2.1	0.66	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 18:32	NC
Vanadium	24	0.82	0.45	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:15	ICP
Zinc	130	0.82	0.72	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:15	ICP

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB2A | Sampled: 5/8/2024 14:34

Sample ID: 24E1437-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.8			% Wt	1		SM 2540G	5/13/24	5/13/24 17:51	NC

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB3 | Sampled: 5/8/2024 14:42

Sample ID: 24E1437-09

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	15000	19	6.0	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:21	ICP
Antimony	ND	1.9	0.51	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 18:39	NC
Arsenic	6.1	3.8	0.53	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:21	ICP
Barium	100	1.9	0.40	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:21	ICP
Beryllium	0.65	0.19	0.058	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:21	ICP
Cadmium	0.32	0.38	0.18	mg/Kg dry	1	J	SW-846 6010D	5/17/24	5/22/24 21:21	ICP
Calcium	11000	19	9.8	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:21	ICP
Chromium	18	0.76	0.48	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:21	ICP
Cobalt	12	1.9	0.32	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:21	ICP
Copper	40	1.5	1.3	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:21	ICP
Iron	33000	190	88	mg/Kg dry	10		SW-846 6010D	5/17/24	5/22/24 23:44	ICP
Lead	76	0.57	0.40	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:21	ICP
Magnesium	5800	19	4.4	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:21	ICP
Manganese	660	0.38	0.22	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:21	ICP
Mercury	0.048	0.029	0.013	mg/Kg dry	1		SW-846 7471B	5/21/24	5/23/24 15:30	AV
Nickel	27	0.76	0.52	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:21	ICP
Potassium	1500	1900	470	mg/Kg dry	10	D, J	SW-846 6010D	5/17/24	5/22/24 23:44	ICP
Selenium	ND	3.8	0.94	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:21	ICP
Silver	ND	0.38	0.23	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:21	ICP
Sodium	ND	190	56	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:21	ICP
Thallium	ND	1.9	0.61	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 18:39	NC
Vanadium	22	0.76	0.42	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:21	ICP
Zinc	100	0.76	0.67	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:21	ICP

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB3 | Sampled: 5/8/2024 14:42

Sample ID: 24E1437-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.0			% Wt	1		SM 2540G	5/13/24	5/13/24 17:51	NC

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB3A | Sampled: 5/8/2024 14:42

Sample ID: 24E1437-10

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	15000	20	6.2	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:28	ICP
Antimony	ND	2.0	0.52	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 18:46	NC
Arsenic	5.1	3.9	0.55	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:28	ICP
Barium	100	2.0	0.42	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:28	ICP
Beryllium	0.67	0.20	0.060	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:28	ICP
Cadmium	0.36	0.39	0.19	mg/Kg dry	1	J	SW-846 6010D	5/17/24	5/22/24 21:28	ICP
Calcium	9300	20	10	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:28	ICP
Chromium	19	0.78	0.50	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:28	ICP
Cobalt	12	2.0	0.33	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:28	ICP
Copper	39	1.6	1.4	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:28	ICP
Iron	35000	200	91	mg/Kg dry	10		SW-846 6010D	5/17/24	5/22/24 23:50	ICP
Lead	64	0.59	0.41	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:28	ICP
Magnesium	6400	20	4.6	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:28	ICP
Manganese	810	0.39	0.22	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:28	ICP
Mercury	0.058	0.027	0.012	mg/Kg dry	1		SW-846 7471B	5/21/24	5/23/24 15:32	AV
Nickel	29	0.78	0.54	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:28	ICP
Potassium	1500	2000	480	mg/Kg dry	10	D, J	SW-846 6010D	5/17/24	5/22/24 23:50	ICP
Selenium	ND	3.9	0.97	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:28	ICP
Silver	ND	0.39	0.24	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:28	ICP
Sodium	ND	200	58	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:28	ICP
Thallium	ND	2.0	0.62	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 18:46	NC
Vanadium	23	0.78	0.43	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:28	ICP
Zinc	100	0.78	0.69	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:28	ICP

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB3A | Sampled: 5/8/2024 14:42

Sample ID: 24E1437-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.9			% Wt	1		SM 2540G	5/13/24	5/13/24 17:51	NC

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB4 | Sampled: 5/8/2024 14:53

Sample ID: 24E1437-11

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	16000	21	6.7	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:35	ICP
Antimony	ND	2.1	0.57	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 18:53	NC
Arsenic	7.0	4.3	0.60	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:35	ICP
Barium	330	2.1	0.45	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:35	ICP
Beryllium	1.1	0.21	0.065	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:35	ICP
Cadmium	1.8	0.43	0.20	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:35	ICP
Calcium	9900	21	11	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:35	ICP
Chromium	110	0.85	0.54	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:35	ICP
Cobalt	16	2.1	0.36	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:35	ICP
Copper	120	1.7	1.5	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:35	ICP
Iron	43000	210	99	mg/Kg dry	10		SW-846 6010D	5/17/24	5/22/24 23:55	ICP
Lead	3800	6.4	4.5	mg/Kg dry	10		SW-846 6010D	5/17/24	5/22/24 23:55	ICP
Magnesium	5500	21	5.0	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:35	ICP
Manganese	670	0.43	0.24	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:35	ICP
Mercury	0.15	0.030	0.013	mg/Kg dry	1		SW-846 7471B	5/21/24	5/23/24 15:35	AV
Nickel	63	0.85	0.59	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:35	ICP
Potassium	2000	2100	530	mg/Kg dry	10	D, J	SW-846 6010D	5/17/24	5/22/24 23:55	ICP
Selenium	ND	4.3	1.1	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:35	ICP
Silver	ND	0.43	0.26	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:35	ICP
Sodium	75	210	63	mg/Kg dry	1	J	SW-846 6010D	5/17/24	5/22/24 21:35	ICP
Thallium	ND	2.1	0.68	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 18:53	NC
Vanadium	25	0.85	0.47	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:35	ICP
Zinc	730	8.5	7.5	mg/Kg dry	10		SW-846 6010D	5/17/24	5/22/24 23:55	ICP

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB4 | Sampled: 5/8/2024 14:53

Sample ID: 24E1437-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	74.1			% Wt	1		SM 2540G	5/13/24	5/13/24 17:51	NC

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB4A | Sampled: 5/8/2024 14:53

Sample ID: 24E1437-12

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	0.056	0.11	0.056	mg/Kg dry	1	V-35, J	SW-846 8260D	5/13/24	5/13/24 9:53	MFF
Benzene	ND	0.0022	0.00067	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
Bromochloromethane	ND	0.0022	0.00092	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
Bromodichloromethane	ND	0.0022	0.00055	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
Bromoform	ND	0.0022	0.00094	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
Bromomethane	ND	0.011	0.0019	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
2-Butanone (MEK)	ND	0.043	0.0091	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
n-Butylbenzene	ND	0.0022	0.00078	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
sec-Butylbenzene	ND	0.0022	0.00086	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
tert-Butylbenzene	ND	0.0022	0.00078	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
Carbon Disulfide	ND	0.022	0.011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
Carbon Tetrachloride	ND	0.0022	0.00062	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
Chlorobenzene	ND	0.0022	0.00052	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
Chlorodibromomethane	ND	0.0011	0.00071	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
Chloroethane	ND	0.022	0.0015	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
Chloroform	ND	0.0043	0.00070	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
Chloromethane	ND	0.011	0.0013	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
Cyclohexane	ND	0.011	0.0044	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0022	0.00087	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	0.00078	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
1,2-Dichlorobenzene	ND	0.0022	0.00069	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
1,3-Dichlorobenzene	ND	0.0022	0.00062	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
1,4-Dichlorobenzene	ND	0.0022	0.00067	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.022	0.00094	mg/Kg dry	1	V-05	SW-846 8260D	5/13/24	5/13/24 9:53	MFF
1,1-Dichloroethane	ND	0.0022	0.00066	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
1,2-Dichloroethane	ND	0.0022	0.00074	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
1,1-Dichloroethylene	ND	0.0043	0.0010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
cis-1,2-Dichloroethylene	ND	0.0022	0.00075	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
trans-1,2-Dichloroethylene	ND	0.0022	0.00064	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
1,2-Dichloropropane	ND	0.0022	0.00066	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
cis-1,3-Dichloropropene	ND	0.0011	0.00082	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
trans-1,3-Dichloropropene	ND	0.0011	0.00083	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
Ethylbenzene	ND	0.0022	0.00062	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
2-Hexanone (MBK)	ND	0.022	0.0074	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
Isopropylbenzene (Cumene)	ND	0.0022	0.00083	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0022	0.00070	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
Methyl Acetate	ND	0.0022	0.0014	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0043	0.00095	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
Methyl Cyclohexane	ND	0.0022	0.00077	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
Methylene Chloride	ND	0.022	0.0010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.022	0.0095	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
Naphthalene	ND	0.0043	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
n-Propylbenzene	ND	0.0022	0.00071	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
Styrene	ND	0.0022	0.00068	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB4A | Sampled: 5/8/2024 14:53

Sample ID: 24E1437-12

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	0.0011	0.00083	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
Tetrachloroethylene	ND	0.0022	0.00094	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
Toluene	ND	0.0022	0.00064	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
1,2,3-Trichlorobenzene	ND	0.0022	0.00071	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
1,2,4-Trichlorobenzene	ND	0.0022	0.00071	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
1,1,1-Trichloroethane	ND	0.0022	0.00064	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
1,1,2-Trichloroethane	ND	0.0022	0.00055	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
Trichloroethylene	ND	0.0022	0.00081	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	0.0013	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
1,2,3-Trichloropropane	ND	0.0022	0.00087	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
1,2,4-Trimethylbenzene	ND	0.0022	0.0010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
1,3,5-Trimethylbenzene	ND	0.0022	0.00086	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
Vinyl Chloride	ND	0.011	0.00084	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
m+p Xylene	ND	0.0043	0.0016	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
o-Xylene	ND	0.0022	0.00073	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF
Xylenes (total)	ND	0.0022	0.0022	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 9:53	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	106	70-130		5/13/24 9:53
Toluene-d8	94.8	70-130		5/13/24 9:53
4-Bromofluorobenzene	85.3	70-130		5/13/24 9:53

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB4A | Sampled: 5/8/2024 14:53

Sample ID: 24E1437-12

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.84	0.058	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Atrazine	ND	0.84	0.055	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Benzaldehyde	ND	0.43	0.068	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Biphenyl	ND	0.84	0.054	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Caprolactam	ND	0.43	0.074	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Acenaphthene	ND	0.21	0.041	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Acenaphthylene	ND	0.21	0.039	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Acetophenone	ND	0.43	0.045	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Aniline	ND	0.43	0.074	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Anthracene	ND	0.21	0.038	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Benzo(a)anthracene	ND	0.21	0.035	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Benzo(a)pyrene	ND	0.21	0.039	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Benzo(b)fluoranthene	ND	0.21	0.035	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Benzo(g,h,i)perylene	ND	0.21	0.061	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Benzo(k)fluoranthene	ND	0.21	0.039	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Bis(2-chloroethoxy)methane	ND	0.43	0.046	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Bis(2-chloroethyl)ether	ND	0.43	0.061	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Bis(2-chloroisopropyl)ether	ND	0.43	0.27	mg/Kg dry	1	V-06	SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.43	0.051	mg/Kg dry	1	L-05, V-06	SW-846 8270E	5/12/24	5/16/24 17:54	BGL
4-Bromophenylphenylether	ND	0.43	0.039	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Butylbenzylphthalate	ND	0.43	0.048	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Carbazole	ND	0.21	0.043	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
4-Chloroaniline	ND	0.83	0.076	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
4-Chloro-3-methylphenol	ND	0.83	0.045	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
2-Chloronaphthalene	ND	0.43	0.037	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
2-Chlorophenol	ND	0.43	0.043	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
4-Chlorophenylphenylether	ND	0.43	0.035	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Chrysene	ND	0.21	0.038	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Dibenz(a,h)anthracene	ND	0.21	0.059	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Dibenzofuran	ND	0.43	0.038	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Di-n-butylphthalate	ND	0.43	0.16	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
3,3-Dichlorobenzidine	ND	0.21	0.092	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
2,4-Dichlorophenol	ND	0.43	0.041	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Diethylphthalate	ND	0.43	0.041	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
2,4-Dimethylphenol	ND	0.43	0.099	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Dimethylphthalate	ND	0.43	0.040	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
4,6-Dinitro-2-methylphenol	ND	0.43	0.34	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
2,4-Dinitrophenol	ND	0.83	0.33	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
2,4-Dinitrotoluene	ND	0.43	0.043	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
2,6-Dinitrotoluene	ND	0.43	0.045	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Di-n-octylphthalate	ND	0.43	0.060	mg/Kg dry	1	V-20	SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Fluoranthene	ND	0.21	0.035	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Fluorene	ND	0.21	0.038	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Hexachlorobenzene	ND	0.43	0.041	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB4A | Sampled: 5/8/2024 14:53

Sample ID: 24E1437-12

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.43	0.039	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Hexachlorocyclopentadiene	ND	0.43	0.28	mg/Kg dry	1	L-04, V-05	SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Hexachloroethane	ND	0.43	0.039	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Isophorone	ND	0.43	0.045	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
1-Methylnaphthalene	ND	0.21	0.043	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
2-Methylnaphthalene	ND	0.21	0.036	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
2-Methylphenol	ND	0.43	0.057	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
3/4-Methylphenol	ND	0.43	0.056	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Naphthalene	ND	0.21	0.075	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
2-Nitroaniline	ND	0.43	0.052	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
3-Nitroaniline	ND	0.43	0.089	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
4-Nitroaniline	ND	0.43	0.048	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Nitrobenzene	ND	0.43	0.054	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
2-Nitrophenol	ND	0.43	0.042	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
4-Nitrophenol	ND	0.83	0.11	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	0.43	0.054	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
N-Nitrosodi-n-propylamine	ND	0.43	0.060	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Pentachlorophenol	ND	0.43	0.15	mg/Kg dry	1	V-05	SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Phenanthrene	ND	0.21	0.038	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Phenol	ND	0.43	0.054	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Pyrene	ND	0.21	0.045	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
Pyridine	ND	0.43	0.050	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.43	0.042	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
2,4,5-Trichlorophenol	ND	0.43	0.044	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL
2,4,6-Trichlorophenol	ND	0.43	0.041	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 17:54	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	46.5	30-130		5/16/24 17:54
Phenol-d6	49.9	30-130		5/16/24 17:54
Nitrobenzene-d5	52.5	30-130		5/16/24 17:54
2-Fluorobiphenyl	55.2	30-130		5/16/24 17:54
2,4,6-Tribromophenol	45.8	30-130		5/16/24 17:54
p-Terphenyl-d14	76.1	30-130		5/16/24 17:54

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB4A | Sampled: 5/8/2024 14:53

Sample ID: 24E1437-12

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.064	0.051	mg/Kg dry	1		SW-846 8270E	5/10/24	5/13/24 18:43	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	33.0	15-110		5/13/24 18:43

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB4A | Sampled: 5/8/2024 14:53

Sample ID: 24E1437-12

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.78	0.32	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:11	QNW
Perfluoropentanoic acid (PFPeA)	0.10	0.39	0.044	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 11:11	QNW
Perfluorohexanoic acid (PFHxA)	0.10	0.19	0.032	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 11:11	QNW
Perfluoroheptanoic acid (PFHpA)	0.081	0.19	0.014	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 11:11	QNW
Perfluorooctanoic acid (PFOA)	0.33	0.19	0.030	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:11	QNW
Perfluorononanoic acid (PFNA)	0.11	0.19	0.013	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 11:11	QNW
Perfluorodecanoic acid (PFDA)	0.046	0.19	0.017	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 11:11	QNW
Perfluoroundecanoic acid (PFUnA)	0.048	0.19	0.023	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 11:11	QNW
Perfluorododecanoic acid (PFDoA)	0.023	0.19	0.021	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 11:11	QNW
Perfluorotridecanoic acid (PFTrDA)	0.023	0.19	0.022	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 11:11	QNW
Perfluorotetradecanoic acid (PFTeDA)	ND	0.19	0.020	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:11	QNW
Perfluorobutanesulfonic acid (PFBS)	0.035	0.19	0.020	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 11:11	QNW
Perfluoropentanesulfonic acid (PFPeS)	ND	0.19	0.025	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:11	QNW
Perfluorohexanesulfonic acid (PFHxS)	ND	0.19	0.077	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:11	QNW
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.19	0.021	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:11	QNW
Perfluorooctanesulfonic acid (PFOS)	0.30	0.19	0.031	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:11	QNW
Perfluorononanesulfonic acid (PFNS)	ND	0.19	0.022	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:11	QNW
Perfluorodecanesulfonic acid (PFDS)	ND	0.19	0.031	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:11	QNW
Perfluorododecanesulfonic acid (PFDoS)	ND	0.19	0.030	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:11	QNW
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.78	0.068	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:11	QNW
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.78	0.49	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:11	QNW
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.78	0.091	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:11	QNW
Perfluorooctanesulfonamide (PFOSA)	ND	0.19	0.030	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:11	QNW
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.19	0.024	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:11	QNW
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.19	0.023	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:11	QNW
N-MeFOSAA (NMeFOSAA)	ND	0.19	0.035	µg/kg dry	1	V-05	Draft Method 1633	5/15/24	5/18/24 11:11	QNW
N-EtFOSAA (NEtFOSAA)	ND	0.19	0.029	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:11	QNW
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	1.9	0.21	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:11	QNW
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	1.9	0.21	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:11	QNW
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.78	0.050	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:11	QNW
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.78	0.058	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:11	QNW
9Cl-PF3ONS (F53B Minor)	ND	0.78	0.056	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:11	QNW
11Cl-PF3OUdS (F53B Major)	ND	0.78	0.086	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:11	QNW
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	1.9	0.19	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:11	QNW
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	9.7	1.3	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:11	QNW
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	9.7	1.5	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:11	QNW
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.39	0.031	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:11	QNW
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.39	0.032	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:11	QNW

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB4A | Sampled: 5/8/2024 14:53

Sample ID: 24E1437-12

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.39	0.032	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:11	QNW
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.39	0.059	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:11	QNW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	84.8	10-130		5/18/24 11:11
13C5-PFPeA	88.0	35-150		5/18/24 11:11
13C5-PFHxA	87.1	55-150		5/18/24 11:11
13C4-PFHpA	92.5	55-150		5/18/24 11:11
13C8-PFOA	87.5	60-140		5/18/24 11:11
13C9-PFNA	84.2	55-140		5/18/24 11:11
13C6-PFDA	86.0	50-140		5/18/24 11:11
13C7-PFUnA	93.3	30-140		5/18/24 11:11
13C2-PFDoA	86.9	10-150		5/18/24 11:11
13C2-PFTeDA	87.8	10-130		5/18/24 11:11
13C3-PFBS	85.8	55-150		5/18/24 11:11
13C3-PFHxS	85.2	55-150		5/18/24 11:11
13C8-PFOS	83.8	45-140		5/18/24 11:11
13C2-4:2FTS	115	60-200		5/18/24 11:11
13C2-6:2FTS	130	60-200		5/18/24 11:11
13C2-8:2FTS	143	50-200		5/18/24 11:11
13C8-PFOSA	76.4	30-130		5/18/24 11:11
D3-NMeFOSA	39.5	15-130		5/18/24 11:11
D5-NEtFOSA	32.9	10-130		5/18/24 11:11
D3-NMeFOSAA	113	45-200		5/18/24 11:11
D5-NEtFOSAA	104	10-200		5/18/24 11:11
D7-NMeFOSE	54.8	10-150		5/18/24 11:11
D9-NEtFOSE	51.6	10-150		5/18/24 11:11
13C3-HFPO-DA	86.7	25-160		5/18/24 11:11

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB4A | Sampled: 5/8/2024 14:53

Sample ID: 24E1437-12

Sample Matrix: Soil

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.062	0.028	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:17	TG
gamma-Chlordane [1]	ND	0.062	0.027	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:17	TG
Aldrin [1]	ND	0.062	0.0060	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:17	TG
alpha-BHC [1]	ND	0.062	0.029	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:17	TG
beta-BHC [1]	ND	0.062	0.033	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:17	TG
delta-BHC [1]	ND	0.062	0.033	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:17	TG
gamma-BHC (Lindane) [1]	ND	0.025	0.0085	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:17	TG
4,4'-DDD [1]	ND	0.049	0.010	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:17	TG
4,4'-DDE [1]	ND	0.049	0.0054	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:17	TG
4,4'-DDT [1]	ND	0.049	0.0063	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:17	TG
Dieldrin [1]	ND	0.049	0.0059	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:17	TG
Endosulfan I [1]	ND	0.062	0.029	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:17	TG
Endosulfan II [1]	ND	0.098	0.026	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:17	TG
Endosulfan sulfate [1]	ND	0.098	0.024	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:17	TG
Endrin [1]	ND	0.098	0.031	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:17	TG
Endrin aldehyde [1]	ND	0.098	0.024	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 18:28	TG
Endrin ketone [1]	ND	0.098	0.025	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:17	TG
Heptachlor [1]	ND	0.062	0.0068	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:17	TG
Heptachlor epoxide [1]	ND	0.062	0.0071	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:17	TG
Methoxychlor [2]	ND	0.62	0.059	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:17	TG
Toxaphene [1]	ND	1.2	0.51	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:17	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.4	30-150		5/14/24 18:28
Decachlorobiphenyl [1]	77.2	30-150		5/14/24 15:17
Decachlorobiphenyl [2]	81.3	30-150		5/14/24 15:17
Decachlorobiphenyl [2]	87.1	30-150		5/14/24 18:28
Tetrachloro-m-xylene [1]	78.1	30-150		5/14/24 15:17
Tetrachloro-m-xylene [1]	81.6	30-150		5/14/24 18:28
Tetrachloro-m-xylene [2]	78.6	30-150		5/14/24 15:17
Tetrachloro-m-xylene [2]	80.6	30-150		5/14/24 18:28

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB4A | Sampled: 5/8/2024 14:53

Sample ID: 24E1437-12

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	0.024	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 20:04	SFM
Aroclor-1221 [1]	ND	0.098	0.046	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 20:04	SFM
Aroclor-1232 [1]	ND	0.098	0.024	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 20:04	SFM
Aroclor-1242 [1]	ND	0.098	0.027	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 20:04	SFM
Aroclor-1248 [1]	ND	0.098	0.024	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 20:04	SFM
Aroclor-1254 [1]	1.1	0.098	0.029	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 20:04	SFM
Aroclor-1260 [1]	ND	0.098	0.020	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 20:04	SFM
Aroclor-1262 [1]	ND	0.098	0.025	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 20:04	SFM
Aroclor-1268 [1]	ND	0.098	0.026	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 20:04	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	89.9	30-150		5/14/24 20:04
Decachlorobiphenyl [2]	89.8	30-150		5/14/24 20:04
Tetrachloro-m-xylene [1]	90.6	30-150		5/14/24 20:04
Tetrachloro-m-xylene [2]	94.1	30-150		5/14/24 20:04

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB4A | Sampled: 5/8/2024 14:53

Sample ID: 24E1437-12

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	18000	20	6.3	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:41	ICP
Antimony	ND	2.0	0.54	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 19:00	NC
Arsenic	6.8	4.0	0.57	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:41	ICP
Barium	390	2.0	0.43	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:41	ICP
Beryllium	1.1	0.20	0.061	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:41	ICP
Cadmium	4.0	0.40	0.19	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:41	ICP
Calcium	12000	20	10	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:41	ICP
Chromium	150	0.81	0.51	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:41	ICP
Cobalt	17	2.0	0.34	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:41	ICP
Copper	75	1.6	1.4	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:41	ICP
Iron	49000	400	190	mg/Kg dry	20		SW-846 6010D	5/17/24	5/23/24 18:59	HNN
Lead	4600	6.0	4.2	mg/Kg dry	10		SW-846 6010D	5/17/24	5/23/24 0:03	ICP
Magnesium	6700	20	4.7	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:41	ICP
Manganese	850	0.40	0.23	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:41	ICP
Mercury	0.14	0.031	0.014	mg/Kg dry	1		SW-846 7471B	5/21/24	5/23/24 15:42	AV
Nickel	46	0.81	0.56	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:41	ICP
Potassium	2000	2000	500	mg/Kg dry	10	D, J	SW-846 6010D	5/17/24	5/23/24 0:03	ICP
Selenium	ND	4.0	1.0	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:41	ICP
Silver	ND	0.40	0.25	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:41	ICP
Sodium	82	200	60	mg/Kg dry	1	J	SW-846 6010D	5/17/24	5/22/24 21:41	ICP
Thallium	ND	2.0	0.64	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 19:00	NC
Vanadium	27	0.81	0.45	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:41	ICP
Zinc	1100	8.1	7.1	mg/Kg dry	10		SW-846 6010D	5/17/24	5/23/24 0:03	ICP

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB4A | Sampled: 5/8/2024 14:53

Sample ID: 24E1437-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	77.9			% Wt	1		SM 2540G	5/13/24	5/13/24 17:51	NC
Cyanide	ND	0.59	0.44	mg/Kg dry	1		SW-846 9014	5/15/24	5/16/24 12:12	DET

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB5 | Sampled: 5/8/2024 15:09

Sample ID: 24E1437-13

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	16000	23	7.2	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:48	ICP
Antimony	ND	2.3	0.61	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 19:07	NC
Arsenic	5.1	4.6	0.65	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:48	ICP
Barium	130	2.3	0.49	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:48	ICP
Beryllium	0.86	0.23	0.070	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:48	ICP
Cadmium	0.29	0.46	0.22	mg/Kg dry	1	J	SW-846 6010D	5/17/24	5/22/24 21:48	ICP
Calcium	4200	23	12	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:48	ICP
Chromium	22	0.92	0.58	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:48	ICP
Cobalt	13	2.3	0.39	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:48	ICP
Copper	62	1.8	1.6	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:48	ICP
Iron	32000	230	110	mg/Kg dry	10		SW-846 6010D	5/17/24	5/23/24 0:10	ICP
Lead	110	0.69	0.48	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:48	ICP
Magnesium	5100	23	5.3	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:48	ICP
Manganese	740	0.46	0.26	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:48	ICP
Mercury	0.068	0.034	0.015	mg/Kg dry	1		SW-846 7471B	5/21/24	5/23/24 15:45	AV
Nickel	38	0.92	0.63	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:48	ICP
Potassium	2000	2300	570	mg/Kg dry	10	D, J	SW-846 6010D	5/17/24	5/23/24 0:10	ICP
Selenium	ND	4.6	1.1	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:48	ICP
Silver	ND	0.46	0.28	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:48	ICP
Sodium	ND	230	68	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:48	ICP
Thallium	ND	2.3	0.73	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 19:07	NC
Vanadium	24	0.92	0.51	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:48	ICP
Zinc	150	0.92	0.81	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:48	ICP

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB5 | Sampled: 5/8/2024 15:09

Sample ID: 24E1437-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	72.5			% Wt	1		SM 2540G	5/13/24	5/13/24 17:51	NC

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB5A | Sampled: 5/8/2024 15:15

Sample ID: 24E1437-14

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	17000	22	6.9	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:55	ICP
Antimony	ND	2.2	0.58	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 19:15	NC
Arsenic	5.4	4.4	0.61	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:55	ICP
Barium	140	2.2	0.46	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:55	ICP
Beryllium	0.90	0.22	0.066	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:55	ICP
Cadmium	0.28	0.44	0.21	mg/Kg dry	1	J	SW-846 6010D	5/17/24	5/22/24 21:55	ICP
Calcium	3900	22	11	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:55	ICP
Chromium	23	0.87	0.55	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:55	ICP
Cobalt	14	2.2	0.37	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:55	ICP
Copper	62	1.7	1.6	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:55	ICP
Iron	33000	220	100	mg/Kg dry	10		SW-846 6010D	5/17/24	5/23/24 0:16	ICP
Lead	110	0.65	0.46	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:55	ICP
Magnesium	5300	22	5.1	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:55	ICP
Manganese	740	0.44	0.25	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:55	ICP
Mercury	0.076	0.031	0.014	mg/Kg dry	1		SW-846 7471B	5/21/24	5/23/24 15:47	AV
Nickel	38	0.87	0.60	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:55	ICP
Potassium	2000	2200	540	mg/Kg dry	10	D, J	SW-846 6010D	5/17/24	5/23/24 0:16	ICP
Selenium	ND	4.4	1.1	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:55	ICP
Silver	ND	0.44	0.27	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:55	ICP
Sodium	ND	220	65	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:55	ICP
Thallium	ND	2.2	0.70	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 19:15	NC
Vanadium	26	0.87	0.48	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:55	ICP
Zinc	140	0.87	0.77	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 21:55	ICP

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB5A | Sampled: 5/8/2024 15:15

Sample ID: 24E1437-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	76.4			% Wt	1		SM 2540G	5/13/24	5/13/24 17:51	NC

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB6 | Sampled: 5/8/2024 15:20

Sample ID: 24E1437-15

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	15000	20	6.3	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:01	ICP
Antimony	ND	2.0	0.54	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 19:22	NC
Arsenic	8.9	4.0	0.57	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:01	ICP
Barium	150	2.0	0.43	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:01	ICP
Beryllium	0.76	0.20	0.061	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:01	ICP
Cadmium	0.29	0.40	0.19	mg/Kg dry	1	J	SW-846 6010D	5/17/24	5/22/24 22:01	ICP
Calcium	26000	200	100	mg/Kg dry	10		SW-846 6010D	5/17/24	5/23/24 0:22	ICP
Chromium	24	0.80	0.51	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:01	ICP
Cobalt	12	2.0	0.34	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:01	ICP
Copper	56	1.6	1.4	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:01	ICP
Iron	33000	200	93	mg/Kg dry	10		SW-846 6010D	5/17/24	5/23/24 0:22	ICP
Lead	220	0.60	0.42	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:01	ICP
Magnesium	5300	20	4.7	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:01	ICP
Manganese	570	0.40	0.23	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:01	ICP
Mercury	0.069	0.029	0.013	mg/Kg dry	1		SW-846 7471B	5/21/24	5/23/24 15:50	AV
Nickel	34	0.80	0.55	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:01	ICP
Potassium	1900	2000	500	mg/Kg dry	10	D, J	SW-846 6010D	5/17/24	5/23/24 0:22	ICP
Selenium	ND	4.0	1.0	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:01	ICP
Silver	ND	0.40	0.25	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:01	ICP
Sodium	73	200	60	mg/Kg dry	1	J	SW-846 6010D	5/17/24	5/22/24 22:01	ICP
Thallium	ND	2.0	0.64	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 19:22	NC
Vanadium	24	0.80	0.44	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:01	ICP
Zinc	140	0.80	0.71	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:01	ICP

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB6 | Sampled: 5/8/2024 15:20

Sample ID: 24E1437-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	78.5			% Wt	1		SM 2540G	5/13/24	5/13/24 17:51	NC

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB6A | Sampled: 5/8/2024 15:22

Sample ID: 24E1437-16

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	16000	20	6.2	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:08	ICP
Antimony	ND	2.0	0.53	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 19:41	NC
Arsenic	6.3	3.9	0.56	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:08	ICP
Barium	120	2.0	0.42	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:08	ICP
Beryllium	0.87	0.20	0.060	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:08	ICP
Cadmium	0.28	0.39	0.19	mg/Kg dry	1	J	SW-846 6010D	5/17/24	5/22/24 22:08	ICP
Calcium	4200	20	10	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:08	ICP
Chromium	23	0.79	0.50	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:08	ICP
Cobalt	14	2.0	0.33	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:08	ICP
Copper	59	1.6	1.4	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:08	ICP
Iron	36000	200	91	mg/Kg dry	10		SW-846 6010D	5/17/24	5/23/24 0:27	ICP
Lead	130	0.59	0.41	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:08	ICP
Magnesium	5900	20	4.6	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:08	ICP
Manganese	630	0.39	0.22	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:08	ICP
Mercury	0.075	0.030	0.014	mg/Kg dry	1		SW-846 7471B	5/21/24	5/23/24 15:53	AV
Nickel	39	0.79	0.54	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:08	ICP
Potassium	1900	2000	490	mg/Kg dry	10	D, J	SW-846 6010D	5/17/24	5/23/24 0:27	ICP
Selenium	ND	3.9	0.98	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:08	ICP
Silver	ND	0.39	0.24	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:08	ICP
Sodium	61	200	59	mg/Kg dry	1	J	SW-846 6010D	5/17/24	5/22/24 22:08	ICP
Thallium	ND	2.0	0.63	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 19:41	NC
Vanadium	25	0.79	0.44	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:08	ICP
Zinc	150	0.79	0.69	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:08	ICP

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB6A | Sampled: 5/8/2024 15:22

Sample ID: 24E1437-16

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.4			% Wt	1		SM 2540G	5/13/24	5/13/24 17:51	NC

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB7 | Sampled: 5/8/2024 15:39

Sample ID: 24E1437-17

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.15	0.078	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
Benzene	ND	0.0030	0.00094	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
Bromochloromethane	ND	0.0030	0.0013	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
Bromodichloromethane	ND	0.0030	0.00077	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
Bromoform	ND	0.0030	0.0013	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
Bromomethane	ND	0.015	0.0027	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
2-Butanone (MEK)	ND	0.060	0.013	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
n-Butylbenzene	ND	0.0030	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
sec-Butylbenzene	ND	0.0030	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
tert-Butylbenzene	ND	0.0030	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
Carbon Disulfide	ND	0.030	0.015	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
Carbon Tetrachloride	ND	0.0030	0.00087	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
Chlorobenzene	ND	0.0030	0.00073	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
Chlorodibromomethane	ND	0.0015	0.00099	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
Chloroethane	ND	0.030	0.0021	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
Chloroform	ND	0.0060	0.00099	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
Chloromethane	ND	0.015	0.0018	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
Cyclohexane	ND	0.015	0.0061	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0030	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
1,2-Dibromoethane (EDB)	ND	0.0015	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
1,2-Dichlorobenzene	ND	0.0030	0.00097	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
1,3-Dichlorobenzene	ND	0.0030	0.00087	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
1,4-Dichlorobenzene	ND	0.0030	0.00094	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.030	0.0013	mg/Kg dry	1	V-05	SW-846 8260D	5/13/24	5/13/24 10:18	MFF
1,1-Dichloroethane	ND	0.0030	0.00092	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
1,2-Dichloroethane	ND	0.0030	0.0010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
1,1-Dichloroethylene	ND	0.0060	0.0014	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
cis-1,2-Dichloroethylene	ND	0.0030	0.0010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
trans-1,2-Dichloroethylene	ND	0.0030	0.00090	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
1,2-Dichloropropane	ND	0.0030	0.00093	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
cis-1,3-Dichloropropene	ND	0.0015	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
trans-1,3-Dichloropropene	ND	0.0015	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
Ethylbenzene	ND	0.0030	0.00087	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
2-Hexanone (MBK)	ND	0.030	0.010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
Isopropylbenzene (Cumene)	ND	0.0030	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0030	0.00098	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
Methyl Acetate	0.0022	0.0030	0.0020	mg/Kg dry	1	J	SW-846 8260D	5/13/24	5/13/24 10:18	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0060	0.0013	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
Methyl Cyclohexane	ND	0.0030	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
Methylene Chloride	ND	0.030	0.0014	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.030	0.013	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
Naphthalene	ND	0.0060	0.0015	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
n-Propylbenzene	ND	0.0030	0.0010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
Styrene	ND	0.0030	0.00096	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB7 | Sampled: 5/8/2024 15:39

Sample ID: 24E1437-17

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	0.0015	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
Tetrachloroethylene	ND	0.0030	0.0013	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
Toluene	ND	0.0030	0.00089	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
1,2,3-Trichlorobenzene	ND	0.0030	0.0010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
1,2,4-Trichlorobenzene	ND	0.0030	0.00099	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
1,1,1-Trichloroethane	ND	0.0030	0.00089	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
1,1,2-Trichloroethane	ND	0.0030	0.00078	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
Trichloroethylene	ND	0.0030	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
Trichlorofluoromethane (Freon 11)	ND	0.015	0.0018	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
1,2,3-Trichloropropane	ND	0.0030	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.015	0.0016	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
1,2,4-Trimethylbenzene	ND	0.0030	0.0015	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
1,3,5-Trimethylbenzene	ND	0.0030	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
Vinyl Chloride	ND	0.015	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
m+p Xylene	ND	0.0060	0.0022	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
o-Xylene	ND	0.0030	0.0010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF
Xylenes (total)	ND	0.0030	0.0030	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:18	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	98.3	70-130		5/13/24 10:18
Toluene-d8	92.0	70-130		5/13/24 10:18
4-Bromofluorobenzene	85.6	70-130		5/13/24 10:18

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB7 | Sampled: 5/8/2024 15:39

Sample ID: 24E1437-17

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.95	0.065	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Atrazine	ND	0.95	0.062	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Benzaldehyde	0.086	0.48	0.077	mg/Kg dry	1	J	SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Biphenyl	ND	0.95	0.061	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Caprolactam	ND	0.48	0.084	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Acenaphthene	ND	0.24	0.046	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Acenaphthylene	ND	0.24	0.044	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Acetophenone	ND	0.48	0.050	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Aniline	ND	0.48	0.084	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Anthracene	ND	0.24	0.043	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Benzo(a)anthracene	ND	0.24	0.039	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Benzo(a)pyrene	ND	0.24	0.044	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Benzo(b)fluoranthene	ND	0.24	0.039	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Benzo(g,h,i)perylene	ND	0.24	0.069	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Benzo(k)fluoranthene	ND	0.24	0.044	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Bis(2-chloroethoxy)methane	ND	0.48	0.052	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Bis(2-chloroethyl)ether	ND	0.48	0.069	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Bis(2-chloroisopropyl)ether	ND	0.48	0.30	mg/Kg dry	1	V-06	SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.48	0.057	mg/Kg dry	1	L-05, V-06	SW-846 8270E	5/12/24	5/16/24 18:14	BGL
4-Bromophenylphenylether	ND	0.48	0.044	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Butylbenzylphthalate	ND	0.48	0.054	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Carbazole	ND	0.24	0.049	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
4-Chloroaniline	ND	0.94	0.086	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
4-Chloro-3-methylphenol	ND	0.94	0.050	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
2-Chloronaphthalene	ND	0.48	0.042	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
2-Chlorophenol	ND	0.48	0.049	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
4-Chlorophenylphenylether	ND	0.48	0.040	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Chrysene	ND	0.24	0.043	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Dibenz(a,h)anthracene	ND	0.24	0.067	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Dibenzofuran	ND	0.48	0.043	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Di-n-butylphthalate	ND	0.48	0.18	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
3,3-Dichlorobenzidine	ND	0.24	0.10	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
2,4-Dichlorophenol	ND	0.48	0.046	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Diethylphthalate	ND	0.48	0.047	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
2,4-Dimethylphenol	ND	0.48	0.11	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Dimethylphthalate	ND	0.48	0.046	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
4,6-Dinitro-2-methylphenol	ND	0.48	0.38	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
2,4-Dinitrophenol	ND	0.94	0.37	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
2,4-Dinitrotoluene	ND	0.48	0.049	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
2,6-Dinitrotoluene	ND	0.48	0.051	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Di-n-octylphthalate	ND	0.48	0.068	mg/Kg dry	1	V-20	SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Fluoranthene	ND	0.24	0.040	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Fluorene	ND	0.24	0.043	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Hexachlorobenzene	ND	0.48	0.047	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB7 | Sampled: 5/8/2024 15:39

Sample ID: 24E1437-17

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.48	0.044	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Hexachlorocyclopentadiene	ND	0.48	0.32	mg/Kg dry	1	L-04, V-05	SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Hexachloroethane	ND	0.48	0.045	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Indeno(1,2,3-cd)pyrene	ND	0.24	0.078	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Isophorone	ND	0.48	0.051	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
1-Methylnaphthalene	ND	0.24	0.048	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
2-Methylnaphthalene	ND	0.24	0.041	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
2-Methylphenol	ND	0.48	0.065	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
3/4-Methylphenol	ND	0.48	0.064	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Naphthalene	ND	0.24	0.085	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
2-Nitroaniline	ND	0.48	0.059	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
3-Nitroaniline	ND	0.48	0.10	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
4-Nitroaniline	ND	0.48	0.054	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Nitrobenzene	ND	0.48	0.061	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
2-Nitrophenol	ND	0.48	0.047	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
4-Nitrophenol	ND	0.94	0.13	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	0.48	0.061	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
N-Nitrosodi-n-propylamine	ND	0.48	0.067	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Pentachlorophenol	ND	0.48	0.17	mg/Kg dry	1	V-05	SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Phenanthrene	ND	0.24	0.043	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Phenol	ND	0.48	0.061	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Pyrene	0.053	0.24	0.050	mg/Kg dry	1	J	SW-846 8270E	5/12/24	5/16/24 18:14	BGL
Pyridine	ND	0.48	0.056	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.48	0.048	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
2,4,5-Trichlorophenol	ND	0.48	0.049	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL
2,4,6-Trichlorophenol	ND	0.48	0.046	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:14	BGL

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
2-Fluorophenol	33.2		30-130		5/16/24 18:14
Phenol-d6	34.6		30-130		5/16/24 18:14
Nitrobenzene-d5	40.1		30-130		5/16/24 18:14
2-Fluorobiphenyl	37.9		30-130		5/16/24 18:14
2,4,6-Tribromophenol	**26.4**	*	30-130	S-07	5/16/24 18:14
p-Terphenyl-d14	50.0		30-130		5/16/24 18:14

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB7 | Sampled: 5/8/2024 15:39

Sample ID: 24E1437-17

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.069	0.055	mg/Kg dry	1		SW-846 8270E	5/10/24	5/13/24 19:02	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	28.2	15-110		5/13/24 19:02

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB7 | Sampled: 5/8/2024 15:39

Sample ID: 24E1437-17

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.78	0.32	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:26	QNW
Perfluoropentanoic acid (PFPeA)	0.082	0.39	0.044	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 11:26	QNW
Perfluorohexanoic acid (PFHxA)	0.083	0.20	0.032	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 11:26	QNW
Perfluoroheptanoic acid (PFHpA)	0.12	0.20	0.014	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 11:26	QNW
Perfluorooctanoic acid (PFOA)	0.49	0.20	0.030	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:26	QNW
Perfluorononanoic acid (PFNA)	0.21	0.20	0.014	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:26	QNW
Perfluorodecanoic acid (PFDA)	0.11	0.20	0.017	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 11:26	QNW
Perfluoroundecanoic acid (PFUnA)	0.12	0.20	0.023	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 11:26	QNW
Perfluorododecanoic acid (PFDoA)	0.047	0.20	0.021	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 11:26	QNW
Perfluorotridecanoic acid (PFTrDA)	0.040	0.20	0.022	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 11:26	QNW
Perfluorotetradecanoic acid (PFTeDA)	0.023	0.20	0.020	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 11:26	QNW
Perfluorobutanesulfonic acid (PFBS)	0.035	0.20	0.020	µg/kg dry	1	J	Draft Method 1633	5/15/24	5/18/24 11:26	QNW
Perfluoropentanesulfonic acid (PFPeS)	ND	0.20	0.025	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:26	QNW
Perfluorohexanesulfonic acid (PFHxS)	ND	0.20	0.077	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:26	QNW
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.20	0.021	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:26	QNW
Perfluorooctanesulfonic acid (PFOS)	0.62	0.20	0.031	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:26	QNW
Perfluorononanesulfonic acid (PFNS)	ND	0.20	0.022	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:26	QNW
Perfluorodecanesulfonic acid (PFDS)	ND	0.20	0.031	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:26	QNW
Perfluorododecanesulfonic acid (PFDoS)	ND	0.20	0.030	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:26	QNW
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.78	0.068	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:26	QNW
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.78	0.49	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:26	QNW
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.78	0.091	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:26	QNW
Perfluorooctanesulfonamide (PFOSA)	ND	0.20	0.030	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:26	QNW
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.20	0.024	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:26	QNW
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.20	0.023	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:26	QNW
N-MeFOSAA (NMeFOSAA)	ND	0.20	0.035	µg/kg dry	1	V-05	Draft Method 1633	5/15/24	5/18/24 11:26	QNW
N-EtFOSAA (NEtFOSAA)	ND	0.20	0.029	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:26	QNW
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	2.0	0.21	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:26	QNW
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	2.0	0.21	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:26	QNW
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.78	0.050	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:26	QNW
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.78	0.058	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:26	QNW
9Cl-PF3ONS (F53B Minor)	ND	0.78	0.056	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:26	QNW
11Cl-PF3OUdS (F53B Major)	ND	0.78	0.087	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:26	QNW
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	2.0	0.19	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:26	QNW
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	9.8	1.3	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:26	QNW
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	9.8	1.5	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:26	QNW
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.39	0.031	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:26	QNW
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.39	0.032	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:26	QNW

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB7 | Sampled: 5/8/2024 15:39

Sample ID: 24E1437-17

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.39	0.032	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:26	QNW
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.39	0.059	µg/kg dry	1		Draft Method 1633	5/15/24	5/18/24 11:26	QNW

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	79.6	10-130		5/18/24 11:26
13C5-PFPeA	82.2	35-150		5/18/24 11:26
13C5-PFHxA	79.9	55-150		5/18/24 11:26
13C4-PFHpA	85.3	55-150		5/18/24 11:26
13C8-PFOA	79.5	60-140		5/18/24 11:26
13C9-PFNA	80.9	55-140		5/18/24 11:26
13C6-PFDA	78.3	50-140		5/18/24 11:26
13C7-PFUnA	84.8	30-140		5/18/24 11:26
13C2-PFDoA	79.5	10-150		5/18/24 11:26
13C2-PFTeDA	71.9	10-130		5/18/24 11:26
13C3-PFBS	82.8	55-150		5/18/24 11:26
13C3-PFHxS	80.7	55-150		5/18/24 11:26
13C8-PFOS	76.1	45-140		5/18/24 11:26
13C2-4:2FTS	115	60-200		5/18/24 11:26
13C2-6:2FTS	140	60-200		5/18/24 11:26
13C2-8:2FTS	141	50-200		5/18/24 11:26
13C8-PFOSA	61.5	30-130		5/18/24 11:26
D3-NMeFOSA	24.9	15-130		5/18/24 11:26
D5-NEtFOSA	18.0	10-130		5/18/24 11:26
D3-NMeFOSAA	93.6	45-200		5/18/24 11:26
D5-NEtFOSAA	96.6	10-200		5/18/24 11:26
D7-NMeFOSE	38.9	10-150		5/18/24 11:26
D9-NEtFOSE	31.9	10-150		5/18/24 11:26
13C3-HFPO-DA	77.6	25-160		5/18/24 11:26

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB7 | Sampled: 5/8/2024 15:39

Sample ID: 24E1437-17

Sample Matrix: Soil

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.14	0.064	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 15:29	TG
gamma-Chlordane [1]	ND	0.14	0.060	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 15:29	TG
Aldrin [1]	ND	0.14	0.013	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 15:29	TG
alpha-BHC [1]	ND	0.14	0.065	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 15:29	TG
beta-BHC [1]	ND	0.14	0.073	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 15:29	TG
delta-BHC [1]	ND	0.14	0.073	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 15:29	TG
gamma-BHC (Lindane) [1]	ND	0.055	0.019	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 15:29	TG
4,4'-DDD [1]	ND	0.11	0.023	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 15:29	TG
4,4'-DDE [1]	ND	0.11	0.012	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 15:29	TG
4,4'-DDT [1]	ND	0.11	0.014	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 15:29	TG
Dieldrin [1]	ND	0.11	0.013	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 15:29	TG
Endosulfan I [1]	ND	0.14	0.066	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 15:29	TG
Endosulfan II [1]	ND	0.22	0.059	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 15:29	TG
Endosulfan sulfate [1]	ND	0.22	0.053	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 15:29	TG
Endrin [1]	ND	0.22	0.070	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 15:29	TG
Endrin aldehyde [1]	ND	0.22	0.054	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 18:40	TG
Endrin ketone [1]	ND	0.22	0.055	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 15:29	TG
Heptachlor [1]	ND	0.14	0.015	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 15:29	TG
Heptachlor epoxide [1]	ND	0.14	0.016	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 15:29	TG
Methoxychlor [2]	ND	1.4	0.13	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 15:29	TG
Toxaphene [1]	ND	2.7	1.1	mg/Kg dry	20		SW-846 8081B	5/10/24	5/14/24 15:29	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.9	30-150		5/14/24 15:29
Decachlorobiphenyl [1]	88.0	30-150		5/14/24 18:40
Decachlorobiphenyl [2]	90.0	30-150		5/14/24 15:29
Decachlorobiphenyl [2]	90.9	30-150		5/14/24 18:40
Tetrachloro-m-xylene [1]	87.9	30-150		5/14/24 15:29
Tetrachloro-m-xylene [1]	92.1	30-150		5/14/24 18:40
Tetrachloro-m-xylene [2]	87.5	30-150		5/14/24 15:29
Tetrachloro-m-xylene [2]	88.6	30-150		5/14/24 18:40

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB7 | Sampled: 5/8/2024 15:39

Sample ID: 24E1437-17

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	0.027	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 20:21	SFM
Aroclor-1221 [1]	ND	0.11	0.051	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 20:21	SFM
Aroclor-1232 [1]	ND	0.11	0.027	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 20:21	SFM
Aroclor-1242 [1]	ND	0.11	0.030	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 20:21	SFM
Aroclor-1248 [1]	ND	0.11	0.026	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 20:21	SFM
Aroclor-1254 [2]	0.091	0.11	0.042	mg/Kg dry	4	J	SW-846 8082A	5/10/24	5/14/24 20:21	SFM
Aroclor-1260 [1]	ND	0.11	0.023	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 20:21	SFM
Aroclor-1262 [1]	ND	0.11	0.028	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 20:21	SFM
Aroclor-1268 [1]	ND	0.11	0.029	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 20:21	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.0	30-150		5/14/24 20:21
Decachlorobiphenyl [2]	82.2	30-150		5/14/24 20:21
Tetrachloro-m-xylene [1]	85.0	30-150		5/14/24 20:21
Tetrachloro-m-xylene [2]	88.4	30-150		5/14/24 20:21

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB7 | Sampled: 5/8/2024 15:39

Sample ID: 24E1437-17

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	14000	23	7.3	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:14	ICP
Antimony	ND	2.3	0.62	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 19:48	NC
Arsenic	4.6	4.6	0.65	mg/Kg dry	1	J	SW-846 6010D	5/17/24	5/22/24 22:14	ICP
Barium	100	2.3	0.49	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:14	ICP
Beryllium	0.57	0.23	0.070	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:14	ICP
Cadmium	0.38	0.46	0.22	mg/Kg dry	1	J	SW-846 6010D	5/17/24	5/22/24 22:14	ICP
Calcium	5500	23	12	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:14	ICP
Chromium	20	0.93	0.59	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:14	ICP
Cobalt	9.6	2.3	0.39	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:14	ICP
Copper	40	1.9	1.6	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:14	ICP
Iron	27000	230	110	mg/Kg dry	10		SW-846 6010D	5/17/24	5/23/24 0:33	ICP
Lead	190	0.69	0.49	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:14	ICP
Magnesium	4600	23	5.4	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:14	ICP
Manganese	620	0.46	0.26	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:14	ICP
Mercury	0.071	0.033	0.015	mg/Kg dry	1		SW-846 7471B	5/21/24	5/23/24 15:55	AV
Nickel	23	0.93	0.64	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:14	ICP
Potassium	1100	2300	570	mg/Kg dry	10	D, J	SW-846 6010D	5/17/24	5/23/24 0:33	ICP
Selenium	ND	4.6	1.1	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:14	ICP
Silver	ND	0.46	0.28	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:14	ICP
Sodium	ND	230	69	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:14	ICP
Thallium	ND	2.3	0.74	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 19:48	NC
Vanadium	30	0.93	0.51	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:14	ICP
Zinc	120	0.93	0.81	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:14	ICP

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB7 | Sampled: 5/8/2024 15:39

Sample ID: 24E1437-17

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	69.3			% Wt	1		SM 2540G	5/13/24	5/13/24 17:51	NC
Cyanide	0.53	0.65	0.49	mg/Kg dry	1	J	SW-846 9014	5/15/24	5/16/24 12:12	DET

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB7A | Sampled: 5/8/2024 15:57

Sample ID: 24E1437-18

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	13000	20	6.3	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:31	ICP
Antimony	ND	2.0	0.53	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 19:55	NC
Arsenic	4.9	4.0	0.56	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:31	ICP
Barium	99	2.0	0.43	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:31	ICP
Beryllium	0.54	0.20	0.061	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:31	ICP
Cadmium	0.41	0.40	0.19	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:31	ICP
Calcium	9300	20	10	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:31	ICP
Chromium	22	0.80	0.51	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:31	ICP
Cobalt	8.9	2.0	0.34	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:31	ICP
Copper	43	1.6	1.4	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:31	ICP
Iron	26000	200	93	mg/Kg dry	10		SW-846 6010D	5/17/24	5/23/24 0:38	ICP
Lead	190	0.60	0.42	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:31	ICP
Magnesium	6800	20	4.7	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:31	ICP
Manganese	650	0.40	0.23	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:31	ICP
Mercury	0.065	0.031	0.014	mg/Kg dry	1		SW-846 7471B	5/21/24	5/23/24 15:58	AV
Nickel	24	0.80	0.55	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:31	ICP
Potassium	1000	2000	490	mg/Kg dry	10	D, J	SW-846 6010D	5/17/24	5/23/24 0:38	ICP
Selenium	ND	4.0	0.99	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:31	ICP
Silver	ND	0.40	0.25	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:31	ICP
Sodium	ND	200	59	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:31	ICP
Thallium	ND	2.0	0.64	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 19:55	NC
Vanadium	36	0.80	0.44	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:31	ICP
Zinc	130	0.80	0.70	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:31	ICP

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: SB7A | Sampled: 5/8/2024 15:57

Sample ID: 24E1437-18

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.7			% Wt	1		SM 2540G	5/13/24	5/13/24 17:51	NC

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: DUP | Sampled: 5/8/2024 15:45

Sample ID: 24E1437-19

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	0.073	0.14	0.073	mg/Kg dry	1	V-35, J	SW-846 8260D	5/13/24	5/13/24 10:44	MFF
Benzene	ND	0.0028	0.00088	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
Bromochloromethane	ND	0.0028	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
Bromodichloromethane	ND	0.0028	0.00072	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
Bromoform	ND	0.0028	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
Bromomethane	ND	0.014	0.0025	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
2-Butanone (MEK)	ND	0.056	0.012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
n-Butylbenzene	ND	0.0028	0.0010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
sec-Butylbenzene	ND	0.0028	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
tert-Butylbenzene	ND	0.0028	0.0010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
Carbon Disulfide	ND	0.028	0.014	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
Carbon Tetrachloride	ND	0.0028	0.00082	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
Chlorobenzene	ND	0.0028	0.00068	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
Chlorodibromomethane	ND	0.0014	0.00093	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
Chloroethane	ND	0.028	0.0020	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
Chloroform	ND	0.0056	0.00092	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
Chloromethane	ND	0.014	0.0017	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
Cyclohexane	ND	0.014	0.0057	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0028	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
1,2-Dibromoethane (EDB)	ND	0.0014	0.0010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
1,2-Dichlorobenzene	ND	0.0028	0.00090	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
1,3-Dichlorobenzene	ND	0.0028	0.00081	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
1,4-Dichlorobenzene	ND	0.0028	0.00088	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.028	0.0012	mg/Kg dry	1	V-05	SW-846 8260D	5/13/24	5/13/24 10:44	MFF
1,1-Dichloroethane	ND	0.0028	0.00086	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
1,2-Dichloroethane	ND	0.0028	0.00097	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
1,1-Dichloroethylene	ND	0.0056	0.0014	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
cis-1,2-Dichloroethylene	ND	0.0028	0.00098	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
trans-1,2-Dichloroethylene	ND	0.0028	0.00084	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
1,2-Dichloropropane	ND	0.0028	0.00087	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
cis-1,3-Dichloropropene	ND	0.0014	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
trans-1,3-Dichloropropene	ND	0.0014	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
Ethylbenzene	ND	0.0028	0.00081	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
2-Hexanone (MBK)	ND	0.028	0.0097	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
Isopropylbenzene (Cumene)	ND	0.0028	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0028	0.00091	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
Methyl Acetate	ND	0.0028	0.0019	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0056	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
Methyl Cyclohexane	ND	0.0028	0.0010	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
Methylene Chloride	ND	0.028	0.0013	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.028	0.012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
Naphthalene	ND	0.0056	0.0014	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
n-Propylbenzene	ND	0.0028	0.00093	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
Styrene	ND	0.0028	0.00090	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: DUP | Sampled: 5/8/2024 15:45

Sample ID: 24E1437-19

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,2,2-Tetrachloroethane	ND	0.0014	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
Tetrachloroethylene	ND	0.0028	0.0012	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
Toluene	ND	0.0028	0.00084	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
1,2,3-Trichlorobenzene	ND	0.0028	0.00093	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
1,2,4-Trichlorobenzene	ND	0.0028	0.00093	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
1,1,1-Trichloroethane	ND	0.0028	0.00084	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
1,1,2-Trichloroethane	ND	0.0028	0.00073	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
Trichloroethylene	ND	0.0028	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
Trichlorofluoromethane (Freon 11)	ND	0.014	0.0017	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
1,2,3-Trichloropropane	ND	0.0028	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.014	0.0015	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
1,2,4-Trimethylbenzene	ND	0.0028	0.0014	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
1,3,5-Trimethylbenzene	ND	0.0028	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
Vinyl Chloride	ND	0.014	0.0011	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
m+p Xylene	ND	0.0056	0.0020	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
o-Xylene	ND	0.0028	0.00095	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF
Xylenes (total)	ND	0.0028	0.0028	mg/Kg dry	1		SW-846 8260D	5/13/24	5/13/24 10:44	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	95.0	70-130		5/13/24 10:44
Toluene-d8	92.3	70-130		5/13/24 10:44
4-Bromofluorobenzene	83.8	70-130		5/13/24 10:44

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: DUP | Sampled: 5/8/2024 15:45

Sample ID: 24E1437-19

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.95	0.065	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Atrazine	ND	0.95	0.062	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Benzaldehyde	0.098	0.48	0.077	mg/Kg dry	1	J	SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Biphenyl	ND	0.95	0.061	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Caprolactam	ND	0.48	0.084	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Acenaphthene	ND	0.24	0.046	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Acenaphthylene	ND	0.24	0.044	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Acetophenone	ND	0.48	0.050	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Aniline	ND	0.48	0.084	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Anthracene	ND	0.24	0.043	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Benzo(a)anthracene	ND	0.24	0.039	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Benzo(a)pyrene	ND	0.24	0.044	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Benzo(b)fluoranthene	ND	0.24	0.039	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Benzo(g,h,i)perylene	ND	0.24	0.069	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Benzo(k)fluoranthene	ND	0.24	0.044	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Bis(2-chloroethoxy)methane	ND	0.48	0.052	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Bis(2-chloroethyl)ether	ND	0.48	0.069	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Bis(2-chloroisopropyl)ether	ND	0.48	0.30	mg/Kg dry	1	V-06	SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.48	0.057	mg/Kg dry	1	L-05, V-06	SW-846 8270E	5/12/24	5/16/24 18:34	BGL
4-Bromophenylphenylether	ND	0.48	0.044	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Butylbenzylphthalate	ND	0.48	0.054	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Carbazole	ND	0.24	0.049	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
4-Chloroaniline	ND	0.94	0.085	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
4-Chloro-3-methylphenol	ND	0.94	0.050	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
2-Chloronaphthalene	ND	0.48	0.042	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
2-Chlorophenol	ND	0.48	0.048	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
4-Chlorophenylphenylether	ND	0.48	0.040	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Chrysene	ND	0.24	0.043	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Dibenz(a,h)anthracene	ND	0.24	0.067	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Dibenzofuran	ND	0.48	0.043	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Di-n-butylphthalate	ND	0.48	0.18	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
3,3-Dichlorobenzidine	ND	0.24	0.10	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
2,4-Dichlorophenol	ND	0.48	0.046	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Diethylphthalate	ND	0.48	0.047	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
2,4-Dimethylphenol	ND	0.48	0.11	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Dimethylphthalate	ND	0.48	0.046	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
4,6-Dinitro-2-methylphenol	ND	0.48	0.38	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
2,4-Dinitrophenol	ND	0.94	0.37	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
2,4-Dinitrotoluene	ND	0.48	0.049	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
2,6-Dinitrotoluene	ND	0.48	0.051	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Di-n-octylphthalate	ND	0.48	0.068	mg/Kg dry	1	V-20	SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Fluoranthene	ND	0.24	0.040	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Fluorene	ND	0.24	0.043	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Hexachlorobenzene	ND	0.48	0.047	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: DUP | Sampled: 5/8/2024 15:45

Sample ID: 24E1437-19

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorobutadiene	ND	0.48	0.044	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Hexachlorocyclopentadiene	ND	0.48	0.32	mg/Kg dry	1	L-04, V-05	SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Hexachloroethane	ND	0.48	0.045	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Indeno(1,2,3-cd)pyrene	ND	0.24	0.078	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Isophorone	ND	0.48	0.051	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
1-Methylnaphthalene	ND	0.24	0.048	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
2-Methylnaphthalene	ND	0.24	0.041	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
2-Methylphenol	ND	0.48	0.065	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
3/4-Methylphenol	ND	0.48	0.064	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Naphthalene	ND	0.24	0.085	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
2-Nitroaniline	ND	0.48	0.059	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
3-Nitroaniline	ND	0.48	0.10	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
4-Nitroaniline	ND	0.48	0.054	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Nitrobenzene	ND	0.48	0.061	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
2-Nitrophenol	ND	0.48	0.047	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
4-Nitrophenol	ND	0.94	0.13	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
N-Nitrosodiphenylamine/Diphenylamine	ND	0.48	0.061	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
N-Nitrosodi-n-propylamine	ND	0.48	0.067	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Pentachlorophenol	ND	0.48	0.17	mg/Kg dry	1	V-05	SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Phenanthrene	ND	0.24	0.043	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Phenol	ND	0.48	0.061	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Pyrene	0.057	0.24	0.050	mg/Kg dry	1	J	SW-846 8270E	5/12/24	5/16/24 18:34	BGL
Pyridine	ND	0.48	0.056	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.48	0.048	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
2,4,5-Trichlorophenol	ND	0.48	0.049	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL
2,4,6-Trichlorophenol	ND	0.48	0.046	mg/Kg dry	1		SW-846 8270E	5/12/24	5/16/24 18:34	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	42.8	30-130		5/16/24 18:34
Phenol-d6	42.6	30-130		5/16/24 18:34
Nitrobenzene-d5	49.0	30-130		5/16/24 18:34
2-Fluorobiphenyl	45.5	30-130		5/16/24 18:34
2,4,6-Tribromophenol	33.5	30-130		5/16/24 18:34
p-Terphenyl-d14	59.9	30-130		5/16/24 18:34

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: DUP | Sampled: 5/8/2024 15:45

Sample ID: 24E1437-19

Sample Matrix: Soil

1,4-Dioxane by isotope dilution GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.070	0.056	mg/Kg dry	1		SW-846 8270E	5/10/24	5/15/24 9:58	GJB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	29.1	15-110		5/15/24 9:58

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: DUP | Sampled: 5/8/2024 15:45

Sample ID: 24E1437-19

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanoic acid (PFBA)	ND	0.80	0.32	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS
Perfluoropentanoic acid (PFPeA)	0.13	0.40	0.045	µg/kg dry	1	J	Draft Method 1633	5/21/24	5/28/24 20:02	AMS
Perfluorohexanoic acid (PFHxA)	0.12	0.20	0.033	µg/kg dry	1	J	Draft Method 1633	5/21/24	5/28/24 20:02	AMS
Perfluoroheptanoic acid (PFHpA)	0.14	0.20	0.014	µg/kg dry	1	J	Draft Method 1633	5/21/24	5/28/24 20:02	AMS
Perfluorooctanoic acid (PFOA)	0.40	0.20	0.031	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS
Perfluorononanoic acid (PFNA)	0.20	0.20	0.014	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS
Perfluorodecanoic acid (PFDA)	0.096	0.20	0.018	µg/kg dry	1	J	Draft Method 1633	5/21/24	5/28/24 20:02	AMS
Perfluoroundecanoic acid (PFUnA)	0.11	0.20	0.023	µg/kg dry	1	J	Draft Method 1633	5/21/24	5/28/24 20:02	AMS
Perfluorododecanoic acid (PFDoA)	0.041	0.20	0.022	µg/kg dry	1	J	Draft Method 1633	5/21/24	5/28/24 20:02	AMS
Perfluorotridecanoic acid (PFTrDA)	0.031	0.20	0.022	µg/kg dry	1	J	Draft Method 1633	5/21/24	5/28/24 20:02	AMS
Perfluorotetradecanoic acid (PFTeDA)	ND	0.20	0.020	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS
Perfluorobutanesulfonic acid (PFBS)	0.034	0.20	0.021	µg/kg dry	1	J	Draft Method 1633	5/21/24	5/28/24 20:02	AMS
Perfluoropentanesulfonic acid (PFPeS)	ND	0.20	0.026	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS
Perfluorohexanesulfonic acid (PFHxS)	ND	0.20	0.079	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.20	0.021	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS
Perfluorooctanesulfonic acid (PFOS)	0.55	0.20	0.032	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS
Perfluorononanesulfonic acid (PFNS)	ND	0.20	0.022	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS
Perfluorodecanesulfonic acid (PFDS)	ND	0.20	0.032	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS
Perfluorododecanesulfonic acid (PFDoS)	ND	0.20	0.031	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.80	0.070	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.80	0.50	µg/kg dry	1	B-05	Draft Method 1633	5/21/24	5/28/24 20:02	AMS
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.80	0.093	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS
Perfluorooctanesulfonamide (PFOSA)	ND	0.20	0.031	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.20	0.025	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.20	0.023	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS
N-MeFOSAA (NMeFOSAA)	ND	0.20	0.036	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS
N-EtFOSAA (NEtFOSAA)	ND	0.20	0.030	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	2.0	0.22	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	2.0	0.22	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.80	0.051	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.80	0.060	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS
9Cl-PF3ONS (F53B Minor)	ND	0.80	0.058	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS
11Cl-PF3OUdS (F53B Major)	ND	0.80	0.089	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	2.0	0.19	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	10	1.3	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	10	1.5	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.40	0.032	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.40	0.033	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: DUP | Sampled: 5/8/2024 15:45

Sample ID: 24E1437-19

Sample Matrix: Soil

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.40	0.033	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.40	0.060	µg/kg dry	1		Draft Method 1633	5/21/24	5/28/24 20:02	AMS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C4-PFBA	84.1	10-130		5/28/24 20:02
13C5-PFPeA	84.6	35-150		5/28/24 20:02
13C5-PFHxA	83.1	55-150		5/28/24 20:02
13C4-PFHpA	85.2	55-150		5/28/24 20:02
13C8-PFOA	85.6	60-140		5/28/24 20:02
13C9-PFNA	83.5	55-140		5/28/24 20:02
13C6-PFDA	84.2	50-140		5/28/24 20:02
13C7-PFUnA	88.8	30-140		5/28/24 20:02
13C2-PFDoA	85.8	10-150		5/28/24 20:02
13C2-PFTeDA	73.7	10-130		5/28/24 20:02
13C3-PFBS	81.7	55-150		5/28/24 20:02
13C3-PFHxS	85.5	55-150		5/28/24 20:02
13C8-PFOS	80.4	45-140		5/28/24 20:02
13C2-4:2FTS	68.7	60-200		5/28/24 20:02
13C2-6:2FTS	91.3	60-200		5/28/24 20:02
13C2-8:2FTS	100	50-200		5/28/24 20:02
13C8-PFOSA	66.9	30-130		5/28/24 20:02
D3-NMeFOSA	22.2	15-130		5/28/24 20:02
D5-NEtFOSA	14.9	10-130		5/28/24 20:02
D3-NMeFOSAA	78.1	45-200		5/28/24 20:02
D5-NEtFOSAA	81.6	10-200		5/28/24 20:02
D7-NMeFOSE	39.2	10-150		5/28/24 20:02
D9-NEtFOSE	31.2	10-150		5/28/24 20:02
13C3-HFPO-DA	85.3	25-160		5/28/24 20:02

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: DUP | Sampled: 5/8/2024 15:45

Sample ID: 24E1437-19

Sample Matrix: Soil

Sample Flags: DL-03

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.071	0.033	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:41	TG
gamma-Chlordane [1]	ND	0.071	0.031	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:41	TG
Aldrin [1]	ND	0.071	0.0069	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:41	TG
alpha-BHC [1]	ND	0.071	0.033	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:41	TG
beta-BHC [1]	ND	0.071	0.038	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:41	TG
delta-BHC [1]	ND	0.071	0.037	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:41	TG
gamma-BHC (Lindane) [1]	ND	0.028	0.0098	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:41	TG
4,4'-DDD [1]	ND	0.056	0.012	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:41	TG
4,4'-DDE [1]	ND	0.056	0.0062	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:41	TG
4,4'-DDT [1]	ND	0.056	0.0073	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:41	TG
Dieldrin [1]	ND	0.056	0.0067	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:41	TG
Endosulfan I [1]	ND	0.071	0.034	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:41	TG
Endosulfan II [1]	ND	0.11	0.030	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:41	TG
Endosulfan sulfate [1]	ND	0.11	0.027	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:41	TG
Endrin [1]	ND	0.11	0.036	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:41	TG
Endrin aldehyde [1]	ND	0.11	0.028	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 18:52	TG
Endrin ketone [1]	ND	0.11	0.028	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:41	TG
Heptachlor [1]	ND	0.071	0.0078	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:41	TG
Heptachlor epoxide [1]	ND	0.071	0.0082	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:41	TG
Methoxychlor [2]	ND	0.71	0.068	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:41	TG
Toxaphene [1]	ND	1.4	0.59	mg/Kg dry	10		SW-846 8081B	5/10/24	5/14/24 15:41	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	67.0	30-150		5/14/24 15:41
Decachlorobiphenyl [1]	69.8	30-150		5/14/24 18:52
Decachlorobiphenyl [2]	70.6	30-150		5/14/24 15:41
Decachlorobiphenyl [2]	73.1	30-150		5/14/24 18:52
Tetrachloro-m-xylene [1]	69.1	30-150		5/14/24 15:41
Tetrachloro-m-xylene [1]	70.5	30-150		5/14/24 18:52
Tetrachloro-m-xylene [2]	67.6	30-150		5/14/24 15:41
Tetrachloro-m-xylene [2]	70.5	30-150		5/14/24 18:52

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: DUP | Sampled: 5/8/2024 15:45

Sample ID: 24E1437-19

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	0.028	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 20:38	SFM
Aroclor-1221 [1]	ND	0.11	0.052	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 20:38	SFM
Aroclor-1232 [1]	ND	0.11	0.028	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 20:38	SFM
Aroclor-1242 [1]	ND	0.11	0.031	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 20:38	SFM
Aroclor-1248 [1]	ND	0.11	0.027	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 20:38	SFM
Aroclor-1254 [1]	0.11	0.11	0.034	mg/Kg dry	4	J	SW-846 8082A	5/10/24	5/14/24 20:38	SFM
Aroclor-1260 [1]	ND	0.11	0.023	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 20:38	SFM
Aroclor-1262 [1]	ND	0.11	0.029	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 20:38	SFM
Aroclor-1268 [1]	ND	0.11	0.030	mg/Kg dry	4		SW-846 8082A	5/10/24	5/14/24 20:38	SFM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.4	30-150		5/14/24 20:38
Decachlorobiphenyl [2]	74.0	30-150		5/14/24 20:38
Tetrachloro-m-xylene [1]	77.4	30-150		5/14/24 20:38
Tetrachloro-m-xylene [2]	80.0	30-150		5/14/24 20:38

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: DUP | Sampled: 5/8/2024 15:45

Sample ID: 24E1437-19

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	14000	24	7.5	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:38	ICP
Antimony	ND	2.4	0.63	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 20:02	NC
Arsenic	4.7	4.8	0.67	mg/Kg dry	1	J	SW-846 6010D	5/17/24	5/22/24 22:38	ICP
Barium	100	2.4	0.51	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:38	ICP
Beryllium	0.58	0.24	0.072	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:38	ICP
Cadmium	0.36	0.48	0.23	mg/Kg dry	1	J	SW-846 6010D	5/17/24	5/22/24 22:38	ICP
Calcium	4800	24	12	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:38	ICP
Chromium	19	0.95	0.60	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:38	ICP
Cobalt	9.8	2.4	0.40	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:38	ICP
Copper	39	1.9	1.7	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:38	ICP
Iron	26000	240	110	mg/Kg dry	10		SW-846 6010D	5/17/24	5/23/24 0:56	ICP
Lead	170	0.71	0.50	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:38	ICP
Magnesium	4400	24	5.5	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:38	ICP
Manganese	600	0.48	0.27	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:38	ICP
Mercury	0.064	0.034	0.015	mg/Kg dry	1		SW-846 7471B	5/21/24	5/23/24 16:00	AV
Nickel	23	0.95	0.66	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:38	ICP
Potassium	1100	2400	590	mg/Kg dry	10	D, J	SW-846 6010D	5/17/24	5/23/24 0:56	ICP
Selenium	ND	4.8	1.2	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:38	ICP
Silver	ND	0.48	0.29	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:38	ICP
Sodium	ND	240	71	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:38	ICP
Thallium	ND	2.4	0.76	mg/Kg dry	1		SW-846 6010D	5/17/24	5/27/24 20:02	NC
Vanadium	27	0.95	0.53	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:38	ICP
Zinc	130	0.95	0.84	mg/Kg dry	1		SW-846 6010D	5/17/24	5/22/24 22:38	ICP

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Project Location: 19 Pine St, Tivoli, NY | Sample Description: | Work Order: 24E1437

Date Received: 5/10/2024

Field Sample #: DUP | Sampled: 5/8/2024 15:45

Sample ID: 24E1437-19

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	69.6			% Wt	1		SM 2540G	5/13/24	5/13/24 17:51	NC
Cyanide	ND	0.70	0.53	mg/Kg dry	1		SW-846 9014	5/15/24	5/16/24 12:12	DET

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Sample Extraction Data

Prep Method:Draft Method 1633 **Analytical Method:Draft Method 1633**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24E1437-02 [CG-2]	B374213	8.00	5.00	05/15/24
24E1437-04 [B1A]	B374213	6.00	5.00	05/15/24
24E1437-06 [SB1A]	B374213	6.92	5.00	05/15/24
24E1437-12 [SB4A]	B374213	6.59	5.00	05/15/24
24E1437-17 [SB7]	B374213	7.39	5.00	05/15/24

Prep Method:Draft Method 1633 **Analytical Method:Draft Method 1633**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24E1437-19RE1 [DUP]	B374779	7.19	5.00	05/21/24

Prep Method:% Solids **Analytical Method:SM 2540G**

Lab Number [Field ID]	Batch	Date
24E1437-01 [CG-1]	B374255	05/13/24
24E1437-02 [CG-2]	B374255	05/13/24
24E1437-03 [B1]	B374255	05/13/24
24E1437-04 [B1A]	B374255	05/13/24
24E1437-05 [SB1]	B374255	05/13/24
24E1437-06 [SB1A]	B374255	05/13/24
24E1437-07 [SB2]	B374255	05/13/24
24E1437-08 [SB2A]	B374255	05/13/24
24E1437-09 [SB3]	B374255	05/13/24
24E1437-10 [SB3A]	B374255	05/13/24
24E1437-11 [SB4]	B374255	05/13/24
24E1437-12 [SB4A]	B374255	05/13/24
24E1437-13 [SB5]	B374255	05/13/24
24E1437-14 [SB5A]	B374255	05/13/24
24E1437-15 [SB6]	B374255	05/13/24
24E1437-16 [SB6A]	B374255	05/13/24
24E1437-17 [SB7]	B374255	05/13/24
24E1437-18 [SB7A]	B374255	05/13/24
24E1437-19 [DUP]	B374255	05/13/24

Prep Method:SW-846 3050B **Analytical Method:SW-846 6010D**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24E1437-01 [CG-1]	B374725	1.50	50.0	05/17/24
24E1437-02 [CG-2]	B374725	1.56	50.0	05/17/24
24E1437-03 [B1]	B374725	1.54	50.0	05/17/24
24E1437-04 [B1A]	B374725	1.55	50.0	05/17/24
24E1437-05 [SB1]	B374725	1.52	50.0	05/17/24
24E1437-06 [SB1A]	B374725	1.54	50.0	05/17/24
24E1437-07 [SB2]	B374725	1.52	50.0	05/17/24
24E1437-08 [SB2A]	B374725	1.50	50.0	05/17/24
24E1437-09 [SB3]	B374725	1.55	50.0	05/17/24
24E1437-10 [SB3A]	B374725	1.52	50.0	05/17/24
24E1437-11 [SB4]	B374725	1.58	50.0	05/17/24
24E1437-12 [SB4A]	B374725	1.59	50.0	05/17/24
24E1437-13 [SB5]	B374725	1.50	50.0	05/17/24
24E1437-14 [SB5A]	B374725	1.50	50.0	05/17/24

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Sample Extraction Data

Prep Method:SW-846 3050B **Analytical Method:SW-846 6010D**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24E1437-15 [SB6]	B374725	1.58	50.0	05/17/24
24E1437-16 [SB6A]	B374725	1.58	50.0	05/17/24
24E1437-17 [SB7]	B374725	1.56	50.0	05/17/24
24E1437-18 [SB7A]	B374725	1.55	50.0	05/17/24
24E1437-19 [DUP]	B374725	1.51	50.0	05/17/24

Prep Method:SW-846 7471 **Analytical Method:SW-846 7471B**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24E1437-01 [CG-1]	B375006	0.658	50.0	05/21/24
24E1437-02 [CG-2]	B375006	0.609	50.0	05/21/24
24E1437-03 [B1]	B375006	0.614	50.0	05/21/24
24E1437-04 [B1A]	B375006	0.608	50.0	05/21/24
24E1437-05 [SB1]	B375006	0.629	50.0	05/21/24
24E1437-06 [SB1A]	B375006	0.629	50.0	05/21/24
24E1437-07 [SB2]	B375006	0.616	50.0	05/21/24
24E1437-08 [SB2A]	B375006	0.652	50.0	05/21/24
24E1437-09 [SB3]	B375006	0.605	50.0	05/21/24
24E1437-10 [SB3A]	B375006	0.661	50.0	05/21/24
24E1437-11 [SB4]	B375006	0.674	50.0	05/21/24
24E1437-12 [SB4A]	B375006	0.630	50.0	05/21/24
24E1437-13 [SB5]	B375006	0.613	50.0	05/21/24
24E1437-14 [SB5A]	B375006	0.624	50.0	05/21/24
24E1437-15 [SB6]	B375006	0.656	50.0	05/21/24
24E1437-16 [SB6A]	B375006	0.615	50.0	05/21/24
24E1437-17 [SB7]	B375006	0.659	50.0	05/21/24
24E1437-18 [SB7A]	B375006	0.606	50.0	05/21/24
24E1437-19 [DUP]	B375006	0.635	50.0	05/21/24

Prep Method:SW-846 3546 **Analytical Method:SW-846 8081B**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24E1437-02 [CG-2]	B374053	10.7	10.0	05/10/24
24E1437-02RE1 [CG-2]	B374053	10.7	10.0	05/10/24
24E1437-04 [B1A]	B374053	10.7	10.0	05/10/24
24E1437-04RE1 [B1A]	B374053	10.7	10.0	05/10/24
24E1437-06 [SB1A]	B374053	10.4	10.0	05/10/24
24E1437-06RE1 [SB1A]	B374053	10.4	10.0	05/10/24
24E1437-12 [SB4A]	B374053	10.4	10.0	05/10/24
24E1437-12RE1 [SB4A]	B374053	10.4	10.0	05/10/24
24E1437-17 [SB7]	B374053	10.5	10.0	05/10/24
24E1437-17RE1 [SB7]	B374053	10.5	10.0	05/10/24
24E1437-19 [DUP]	B374053	10.2	10.0	05/10/24
24E1437-19RE1 [DUP]	B374053	10.2	10.0	05/10/24

Prep Method:SW-846 3546 **Analytical Method:SW-846 8082A**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24E1437-02 [CG-2]	B374045	10.7	10.0	05/10/24
24E1437-04 [B1A]	B374045	10.7	10.0	05/10/24
24E1437-06 [SB1A]	B374045	10.6	10.0	05/10/24

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Sample Extraction Data

Prep Method:SW-846 3546 **Analytical Method:SW-846 8082A**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24E1437-12 [SB4A]	B374045	10.4	10.0	05/10/24
24E1437-17 [SB7]	B374045	10.5	10.0	05/10/24
24E1437-19 [DUP]	B374045	10.2	10.0	05/10/24

Prep Method:SW-846 5035 **Analytical Method:SW-846 8260D**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24E1437-02 [CG-2]	B374129	5.14	10.0	05/13/24
24E1437-04 [B1A]	B374129	3.80	10.0	05/13/24
24E1437-06 [SB1A]	B374129	5.49	10.0	05/13/24
24E1437-12 [SB4A]	B374129	5.97	10.0	05/13/24
24E1437-17 [SB7]	B374129	4.78	10.0	05/13/24
24E1437-19 [DUP]	B374129	5.09	10.0	05/13/24

Prep Method:SW-846 3546 **Analytical Method:SW-846 8270E**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24E1437-02 [CG-2]	B374074	20.5	1.00	05/10/24
24E1437-04 [B1A]	B374074	20.8	1.00	05/10/24
24E1437-06 [SB1A]	B374074	20.2	1.00	05/10/24
24E1437-12 [SB4A]	B374074	20.0	1.00	05/10/24
24E1437-17 [SB7]	B374074	20.8	1.00	05/10/24
24E1437-19 [DUP]	B374074	20.4	1.00	05/10/24

Prep Method:SW-846 3546 **Analytical Method:SW-846 8270E**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24E1437-02 [CG-2]	B374087	30.6	1.00	05/12/24
24E1437-04 [B1A]	B374087	30.4	1.00	05/12/24
24E1437-06 [SB1A]	B374087	30.0	1.00	05/12/24
24E1437-12 [SB4A]	B374087	30.6	1.00	05/12/24
24E1437-17 [SB7]	B374087	30.4	1.00	05/12/24
24E1437-19 [DUP]	B374087	30.3	1.00	05/12/24

Prep Method:SW-846 9010C **Analytical Method:SW-846 9014**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24E1437-02 [CG-2]	B374146	1.01	50.0	05/13/24
24E1437-06 [SB1A]	B374146	1.08	50.0	05/13/24

Prep Method:SW-846 9010C **Analytical Method:SW-846 9014**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24E1437-04 [B1A]	B374399	1.07	50.0	05/15/24
24E1437-12 [SB4A]	B374399	1.09	50.0	05/15/24
24E1437-17 [SB7]	B374399	1.10	50.0	05/15/24
24E1437-19 [DUP]	B374399	1.03	50.0	05/15/24

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B374129 - SW-846 5035										
Blank (B374129-BLK1)				Prepared & Analyzed: 05/13/24						
Acetone	ND	0.10	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
Carbon Disulfide	ND	0.020	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
Cyclohexane	ND	0.010	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							V-05
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl Acetate	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methyl Cyclohexane	ND	0.0020	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B374129 - SW-846 5035												
Blank (B374129-BLK1)				Prepared & Analyzed: 05/13/24								
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet									
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet									
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet									
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet									
Vinyl Chloride	ND	0.010	mg/Kg wet									
m+p Xylene	ND	0.0040	mg/Kg wet									
o-Xylene	ND	0.0020	mg/Kg wet									
Xylenes (total)	ND	0.0020	mg/Kg wet									
Surrogate: 1,2-Dichloroethane-d4	*0.0514*		mg/Kg wet	0.0500		103		70-130				
Surrogate: Toluene-d8	*0.0469*		mg/Kg wet	0.0500		93.8		70-130				
Surrogate: 4-Bromofluorobenzene	*0.0424*		mg/Kg wet	0.0500		84.7		70-130				
LCS (B374129-BS1)				Prepared & Analyzed: 05/13/24								
Acetone	0.202	0.10	mg/Kg wet	0.200		101		70-160			V-35	†
Benzene	0.0194	0.0020	mg/Kg wet	0.0200		96.8		70-130				
Bromochloromethane	0.0202	0.0020	mg/Kg wet	0.0200		101		70-130				
Bromodichloromethane	0.0197	0.0020	mg/Kg wet	0.0200		98.5		70-130				
Bromoform	0.0155	0.0020	mg/Kg wet	0.0200		77.5		70-130				
Bromomethane	0.0166	0.010	mg/Kg wet	0.0200		83.1		40-130				†
2-Butanone (MEK)	0.215	0.040	mg/Kg wet	0.200		107		70-160				†
n-Butylbenzene	0.0216	0.0020	mg/Kg wet	0.0200		108		70-130				
sec-Butylbenzene	0.0216	0.0020	mg/Kg wet	0.0200		108		70-130				
tert-Butylbenzene	0.0213	0.0020	mg/Kg wet	0.0200		106		70-160				†
Carbon Disulfide	0.173	0.020	mg/Kg wet	0.200		86.5		70-130				
Carbon Tetrachloride	0.0178	0.0020	mg/Kg wet	0.0200		89.2		70-130				
Chlorobenzene	0.0169	0.0020	mg/Kg wet	0.0200		84.4		70-130				
Chlorodibromomethane	0.0197	0.0010	mg/Kg wet	0.0200		98.3		70-130				
Chloroethane	0.0193	0.020	mg/Kg wet	0.0200		96.5		70-130			J	
Chloroform	0.0193	0.0040	mg/Kg wet	0.0200		96.7		70-130				
Chloromethane	0.0304	0.010	mg/Kg wet	0.0200		**152**	*	70-130			L-02, V-20	
Cyclohexane	0.0187	0.010	mg/Kg wet	0.0200		93.6		70-130				
1,2-Dibromo-3-chloropropane (DBCP)	0.0184	0.0020	mg/Kg wet	0.0200		92.2		70-130				
1,2-Dibromoethane (EDB)	0.0222	0.0010	mg/Kg wet	0.0200		111		70-130				
1,2-Dichlorobenzene	0.0223	0.0020	mg/Kg wet	0.0200		112		70-130				
1,3-Dichlorobenzene	0.0220	0.0020	mg/Kg wet	0.0200		110		70-130				
1,4-Dichlorobenzene	0.0221	0.0020	mg/Kg wet	0.0200		110		70-130				
Dichlorodifluoromethane (Freon 12)	0.0140	0.020	mg/Kg wet	0.0200		70.2		40-160			V-05, V-36, J	†
1,1-Dichloroethane	0.0194	0.0020	mg/Kg wet	0.0200		97.2		70-130				
1,2-Dichloroethane	0.0214	0.0020	mg/Kg wet	0.0200		107		70-130				
1,1-Dichloroethylene	0.0204	0.0040	mg/Kg wet	0.0200		102		70-130				
cis-1,2-Dichloroethylene	0.0189	0.0020	mg/Kg wet	0.0200		94.6		70-130				
trans-1,2-Dichloroethylene	0.0191	0.0020	mg/Kg wet	0.0200		95.3		70-130				
1,2-Dichloropropane	0.0208	0.0020	mg/Kg wet	0.0200		104		70-130				
cis-1,3-Dichloropropene	0.0203	0.0010	mg/Kg wet	0.0200		101		70-130				
trans-1,3-Dichloropropene	0.0199	0.0010	mg/Kg wet	0.0200		99.5		70-130				
Ethylbenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.3		70-130				
2-Hexanone (MBK)	0.244	0.020	mg/Kg wet	0.200		122		70-160				†
Isopropylbenzene (Cumene)	0.0197	0.0020	mg/Kg wet	0.0200		98.4		70-130				
p-Isopropyltoluene (p-Cymene)	0.0222	0.0020	mg/Kg wet	0.0200		111		70-130				
Methyl Acetate	0.0219	0.0020	mg/Kg wet	0.0200		110		70-130				
Methyl tert-Butyl Ether (MTBE)	0.0199	0.0040	mg/Kg wet	0.0200		99.5		70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B374129 - SW-846 5035												
LCS (B374129-BS1)				Prepared & Analyzed: 05/13/24								
Methyl Cyclohexane	0.0204	0.0020	mg/Kg wet	0.0200		102		70-130				
Methylene Chloride	0.0196	0.020	mg/Kg wet	0.0200		97.9		40-160			J	†
4-Methyl-2-pentanone (MIBK)	0.251	0.020	mg/Kg wet	0.200		125		70-160			V-20	†
Naphthalene	0.0231	0.0040	mg/Kg wet	0.0200		116		40-130				†
n-Propylbenzene	0.0205	0.0020	mg/Kg wet	0.0200		102		70-130				
Styrene	0.0194	0.0020	mg/Kg wet	0.0200		97.0		70-130				
1,1,2,2-Tetrachloroethane	0.0192	0.0010	mg/Kg wet	0.0200		96.0		70-130				
Tetrachloroethylene	0.0219	0.0020	mg/Kg wet	0.0200		110		70-130				
Toluene	0.0211	0.0020	mg/Kg wet	0.0200		106		70-130				
1,2,3-Trichlorobenzene	0.0222	0.0020	mg/Kg wet	0.0200		111		70-130				
1,2,4-Trichlorobenzene	0.0219	0.0020	mg/Kg wet	0.0200		109		70-130				
1,1,1-Trichloroethane	0.0190	0.0020	mg/Kg wet	0.0200		95.0		70-130				
1,1,2-Trichloroethane	0.0220	0.0020	mg/Kg wet	0.0200		110		70-130				
Trichloroethylene	0.0204	0.0020	mg/Kg wet	0.0200		102		70-130				
Trichlorofluoromethane (Freon 11)	0.0210	0.010	mg/Kg wet	0.0200		105		70-130				
1,2,3-Trichloropropane	0.0214	0.0020	mg/Kg wet	0.0200		107		70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0204	0.010	mg/Kg wet	0.0200		102		70-130				
1,2,4-Trimethylbenzene	0.0209	0.0020	mg/Kg wet	0.0200		105		70-130				
1,3,5-Trimethylbenzene	0.0192	0.0020	mg/Kg wet	0.0200		95.8		70-130				
Vinyl Chloride	0.0181	0.010	mg/Kg wet	0.0200		90.4		40-130				†
m+p Xylene	0.0399	0.0040	mg/Kg wet	0.0400		99.6		70-130				
o-Xylene	0.0189	0.0020	mg/Kg wet	0.0200		94.4		70-130				
Surrogate: 1,2-Dichloroethane-d4	*0.0467*		mg/Kg wet	0.0500		93.4		70-130				
Surrogate: Toluene-d8	*0.0476*		mg/Kg wet	0.0500		95.2		70-130				
Surrogate: 4-Bromofluorobenzene	*0.0416*		mg/Kg wet	0.0500		83.2		70-130				
LCS Dup (B374129-BSD1)				Prepared & Analyzed: 05/13/24								
Acetone	0.210	0.10	mg/Kg wet	0.200		105		70-160	3.63	25	V-35	†
Benzene	0.0194	0.0020	mg/Kg wet	0.0200		97.1		70-130	0.309	25		
Bromochloromethane	0.0205	0.0020	mg/Kg wet	0.0200		103		70-130	1.57	25		
Bromodichloromethane	0.0194	0.0020	mg/Kg wet	0.0200		97.2		70-130	1.33	25		
Bromoform	0.0152	0.0020	mg/Kg wet	0.0200		75.8		70-130	2.22	25		
Bromomethane	0.0178	0.010	mg/Kg wet	0.0200		88.9		40-130	6.74	25		†
2-Butanone (MEK)	0.218	0.040	mg/Kg wet	0.200		109		70-160	1.56	25		†
n-Butylbenzene	0.0210	0.0020	mg/Kg wet	0.0200		105		70-130	2.91	25		
sec-Butylbenzene	0.0211	0.0020	mg/Kg wet	0.0200		106		70-130	2.15	25		
tert-Butylbenzene	0.0210	0.0020	mg/Kg wet	0.0200		105		70-160	1.04	25		†
Carbon Disulfide	0.173	0.020	mg/Kg wet	0.200		86.3		70-130	0.220	25		
Carbon Tetrachloride	0.0176	0.0020	mg/Kg wet	0.0200		88.2		70-130	1.13	25		
Chlorobenzene	0.0172	0.0020	mg/Kg wet	0.0200		85.9		70-130	1.76	25		
Chlorodibromomethane	0.0192	0.0010	mg/Kg wet	0.0200		96.2		70-130	2.16	25		
Chloroethane	0.0194	0.020	mg/Kg wet	0.0200		97.1		70-130	0.620	25	J	
Chloroform	0.0198	0.0040	mg/Kg wet	0.0200		98.8		70-130	2.15	25		
Chloromethane	0.0279	0.010	mg/Kg wet	0.0200		**140**	*	70-130	8.64	25	L-02, V-20	
Cyclohexane	0.0190	0.010	mg/Kg wet	0.0200		94.9		70-130	1.38	25		
1,2-Dibromo-3-chloropropane (DBCP)	0.0181	0.0020	mg/Kg wet	0.0200		90.3		70-130	2.08	25		
1,2-Dibromoethane (EDB)	0.0220	0.0010	mg/Kg wet	0.0200		110		70-130	1.27	25		
1,2-Dichlorobenzene	0.0221	0.0020	mg/Kg wet	0.0200		110		70-130	0.991	25		
1,3-Dichlorobenzene	0.0219	0.0020	mg/Kg wet	0.0200		109		70-130	0.547	25		
1,4-Dichlorobenzene	0.0219	0.0020	mg/Kg wet	0.0200		110		70-130	0.545	25		
Dichlorodifluoromethane (Freon 12)	0.0140	0.020	mg/Kg wet	0.0200		70.2		40-160	0.00	25	V-05, V-36, J	†
1,1-Dichloroethane	0.0198	0.0020	mg/Kg wet	0.0200		98.9		70-130	1.73	25		

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B374129 - SW-846 5035												
LCS Dup (B374129-BSD1)				Prepared & Analyzed: 05/13/24								
1,2-Dichloroethane	0.0211	0.0020	mg/Kg wet	0.0200		105		70-130	1.79	25		
1,1-Dichloroethylene	0.0202	0.0040	mg/Kg wet	0.0200		101		70-130	0.983	25		
cis-1,2-Dichloroethylene	0.0196	0.0020	mg/Kg wet	0.0200		98.1		70-130	3.63	25		
trans-1,2-Dichloroethylene	0.0189	0.0020	mg/Kg wet	0.0200		94.3		70-130	1.05	25		
1,2-Dichloropropane	0.0202	0.0020	mg/Kg wet	0.0200		101		70-130	2.73	25		
cis-1,3-Dichloropropene	0.0198	0.0010	mg/Kg wet	0.0200		99.2		70-130	2.19	25		
trans-1,3-Dichloropropene	0.0192	0.0010	mg/Kg wet	0.0200		96.2		70-130	3.37	25		
Ethylbenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.5		70-130	0.826	25		
2-Hexanone (MBK)	0.242	0.020	mg/Kg wet	0.200		121		70-160	0.996	25		†
Isopropylbenzene (Cumene)	0.0195	0.0020	mg/Kg wet	0.0200		97.5		70-130	0.919	25		
p-Isopropyltoluene (p-Cymene)	0.0217	0.0020	mg/Kg wet	0.0200		109		70-130	2.10	25		
Methyl Acetate	0.0227	0.0020	mg/Kg wet	0.0200		114		70-130	3.49	25		
Methyl tert-Butyl Ether (MTBE)	0.0202	0.0040	mg/Kg wet	0.0200		101		70-130	1.50	25		
Methyl Cyclohexane	0.0198	0.0020	mg/Kg wet	0.0200		98.9		70-130	2.99	25		
Methylene Chloride	0.0198	0.020	mg/Kg wet	0.0200		99.0		40-160	1.12	25	J	†
4-Methyl-2-pentanone (MIBK)	0.247	0.020	mg/Kg wet	0.200		124		70-160	1.46	25	V-20	†
Naphthalene	0.0228	0.0040	mg/Kg wet	0.0200		114		40-130	1.39	25		†
n-Propylbenzene	0.0202	0.0020	mg/Kg wet	0.0200		101		70-130	1.28	25		
Styrene	0.0193	0.0020	mg/Kg wet	0.0200		96.3		70-130	0.724	25		
1,1,2,2-Tetrachloroethane	0.0193	0.0010	mg/Kg wet	0.0200		96.7		70-130	0.727	25		
Tetrachloroethylene	0.0214	0.0020	mg/Kg wet	0.0200		107		70-130	2.68	25		
Toluene	0.0208	0.0020	mg/Kg wet	0.0200		104		70-130	1.62	25		
1,2,3-Trichlorobenzene	0.0219	0.0020	mg/Kg wet	0.0200		110		70-130	1.36	25		
1,2,4-Trichlorobenzene	0.0214	0.0020	mg/Kg wet	0.0200		107		70-130	2.13	25		
1,1,1-Trichloroethane	0.0189	0.0020	mg/Kg wet	0.0200		94.6		70-130	0.422	25		
1,1,2-Trichloroethane	0.0215	0.0020	mg/Kg wet	0.0200		107		70-130	2.39	25		
Trichloroethylene	0.0201	0.0020	mg/Kg wet	0.0200		101		70-130	1.58	25		
Trichlorofluoromethane (Freon 11)	0.0203	0.010	mg/Kg wet	0.0200		102		70-130	3.39	25		
1,2,3-Trichloropropane	0.0208	0.0020	mg/Kg wet	0.0200		104		70-130	2.94	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0202	0.010	mg/Kg wet	0.0200		101		70-130	0.886	25		
1,2,4-Trimethylbenzene	0.0208	0.0020	mg/Kg wet	0.0200		104		70-130	0.767	25		
1,3,5-Trimethylbenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.4		70-130	1.47	25		
Vinyl Chloride	0.0185	0.010	mg/Kg wet	0.0200		92.3		40-130	2.08	25		†
m+p Xylene	0.0399	0.0040	mg/Kg wet	0.0400		99.7		70-130	0.0502	25		
o-Xylene	0.0187	0.0020	mg/Kg wet	0.0200		93.4		70-130	1.06	25		
Surrogate: 1,2-Dichloroethane-d4	*0.0476*		mg/Kg wet	0.0500		95.2		70-130				
Surrogate: Toluene-d8	*0.0472*		mg/Kg wet	0.0500		94.4		70-130				
Surrogate: 4-Bromofluorobenzene	*0.0421*		mg/Kg wet	0.0500		84.2		70-130				
Matrix Spike (B374129-MS1)		**Source: 24E1437-06**		Prepared & Analyzed: 05/13/24								
Acetone	0.247	0.12	mg/Kg dry	0.239	ND	104		70-130			V-35	
Benzene	0.0257	0.0024	mg/Kg dry	0.0239	ND	108		70-130				
Bromochloromethane	0.0268	0.0024	mg/Kg dry	0.0239	ND	112		70-130				
Bromodichloromethane	0.0228	0.0024	mg/Kg dry	0.0239	ND	95.5		70-130				
Bromoform	0.0183	0.0024	mg/Kg dry	0.0239	ND	76.7		70-130				
Bromomethane	0.00608	0.012	mg/Kg dry	0.0239	ND	**25.5**	*	70-130			MS-07A, J	
2-Butanone (MEK)	0.249	0.048	mg/Kg dry	0.239	ND	104		70-130				
n-Butylbenzene	0.0277	0.0024	mg/Kg dry	0.0239	ND	116		70-130				
sec-Butylbenzene	0.0309	0.0024	mg/Kg dry	0.0239	ND	130		70-130				
tert-Butylbenzene	0.0287	0.0024	mg/Kg dry	0.0239	ND	120		70-130				
Carbon Disulfide	0.0413	0.024	mg/Kg dry	0.0239	ND	**173**	*	70-130			MS-15	
Carbon Tetrachloride	0.0247	0.0024	mg/Kg dry	0.0239	ND	104		70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B374129 - SW-846 5035											
Matrix Spike (B374129-MS1)	**Source: 24E1437-06**			Prepared & Analyzed: 05/13/24							
Chlorobenzene	0.0214	0.0024	mg/Kg dry	0.0239	ND	89.8		70-130			
Chlorodibromomethane	0.0225	0.0012	mg/Kg dry	0.0239	ND	94.2		70-130			
Chloroethane	0.0316	0.024	mg/Kg dry	0.0239	ND	**132**	*	70-130			MS-24
Chloroform	0.0259	0.0048	mg/Kg dry	0.0239	ND	109		70-130			
Chloromethane	0.0358	0.012	mg/Kg dry	0.0239	ND	**150**	*	70-130			L-02, MS-15, V-20
Cyclohexane	0.0270	0.012	mg/Kg dry	0.0239	ND	113		70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0206	0.0024	mg/Kg dry	0.0239	ND	86.3		70-130			
1,2-Dibromoethane (EDB)	0.0260	0.0012	mg/Kg dry	0.0239	ND	109		70-130			
1,2-Dichlorobenzene	0.0291	0.0024	mg/Kg dry	0.0239	ND	122		70-130			
1,3-Dichlorobenzene	0.0289	0.0024	mg/Kg dry	0.0239	ND	121		70-130			
1,4-Dichlorobenzene	0.0286	0.0024	mg/Kg dry	0.0239	ND	120		70-130			
Dichlorodifluoromethane (Freon 12)	0.0356	0.024	mg/Kg dry	0.0239	ND	**149**	*	70-130			MS-15, V-05, V-36
1,1-Dichloroethane	0.0279	0.0024	mg/Kg dry	0.0239	ND	117		70-130			
1,2-Dichloroethane	0.0253	0.0024	mg/Kg dry	0.0239	ND	106		70-130			
1,1-Dichloroethylene	0.0254	0.0048	mg/Kg dry	0.0239	ND	106		70-130			
cis-1,2-Dichloroethylene	0.0266	0.0024	mg/Kg dry	0.0239	ND	112		70-130			
trans-1,2-Dichloroethylene	0.0270	0.0024	mg/Kg dry	0.0239	ND	113		70-130			
1,2-Dichloropropane	0.0245	0.0024	mg/Kg dry	0.0239	ND	103		70-130			
cis-1,3-Dichloropropene	0.0223	0.0012	mg/Kg dry	0.0239	ND	93.5		70-130			
trans-1,3-Dichloropropene	0.0233	0.0012	mg/Kg dry	0.0239	ND	97.5		70-130			
Ethylbenzene	0.0242	0.0024	mg/Kg dry	0.0239	ND	101		70-130			
2-Hexanone (MBK)	0.251	0.024	mg/Kg dry	0.239	ND	105		70-130			
Isopropylbenzene (Cumene)	0.0256	0.0024	mg/Kg dry	0.0239	ND	107		70-130			
p-Isopropyltoluene (p-Cymene)	0.0306	0.0024	mg/Kg dry	0.0239	ND	128		70-130			
Methyl Acetate	0.0372	0.0024	mg/Kg dry	0.0239	ND	**156**	*	70-130			MS-15
Methyl tert-Butyl Ether (MTBE)	0.0246	0.0048	mg/Kg dry	0.0239	ND	103		70-130			
Methyl Cyclohexane	0.0262	0.0024	mg/Kg dry	0.0239	ND	110		70-130			
Methylene Chloride	0.0264	0.024	mg/Kg dry	0.0239	ND	111		70-130			
4-Methyl-2-pentanone (MIBK)	0.279	0.024	mg/Kg dry	0.239	ND	117		70-130			V-20
Naphthalene	0.0262	0.0048	mg/Kg dry	0.0239	ND	110		70-130			
n-Propylbenzene	0.0266	0.0024	mg/Kg dry	0.0239	ND	112		70-130			
Styrene	0.0242	0.0024	mg/Kg dry	0.0239	ND	101		70-130			
1,1,2,2-Tetrachloroethane	0.0241	0.0012	mg/Kg dry	0.0239	ND	101		70-130			
Tetrachloroethylene	0.0276	0.0024	mg/Kg dry	0.0239	ND	116		70-130			
Toluene	0.0252	0.0024	mg/Kg dry	0.0239	ND	106		70-130			
1,2,3-Trichlorobenzene	0.0269	0.0024	mg/Kg dry	0.0239	ND	113		70-130			
1,2,4-Trichlorobenzene	0.0268	0.0024	mg/Kg dry	0.0239	ND	112		70-130			
1,1,1-Trichloroethane	0.0259	0.0024	mg/Kg dry	0.0239	ND	109		70-130			
1,1,2-Trichloroethane	0.0271	0.0024	mg/Kg dry	0.0239	ND	114		70-130			
Trichloroethylene	0.0255	0.0024	mg/Kg dry	0.0239	ND	107		70-130			
Trichlorofluoromethane (Freon 11)	0.0324	0.012	mg/Kg dry	0.0239	ND	**136**	*	70-130			MS-24
1,2,3-Trichloropropane	0.0235	0.0024	mg/Kg dry	0.0239	ND	98.4		70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0278	0.012	mg/Kg dry	0.0239	ND	117		70-130			
1,2,4-Trimethylbenzene	0.0261	0.0024	mg/Kg dry	0.0239	ND	109		70-130			
1,3,5-Trimethylbenzene	0.0241	0.0024	mg/Kg dry	0.0239	ND	101		70-130			
Vinyl Chloride	0.0300	0.012	mg/Kg dry	0.0239	ND	126		70-130			
m+p Xylene	0.0498	0.0048	mg/Kg dry	0.0477	ND	104		70-130			
o-Xylene	0.0243	0.0024	mg/Kg dry	0.0239	ND	102		70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0625*		mg/Kg dry	0.0596		105		70-130			
Surrogate: Toluene-d8	*0.0562*		mg/Kg dry	0.0596		94.2		70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B374129 - SW-846 5035											
Matrix Spike (B374129-MS1)		**Source: 24E1437-06**		Prepared & Analyzed: 05/13/24							
Surrogate: 4-Bromofluorobenzene	*0.0491*		mg/Kg dry	0.0596		82.3		70-130			
Matrix Spike Dup (B374129-MSD1)		**Source: 24E1437-06**		Prepared & Analyzed: 05/13/24							
Acetone	0.226	0.11	mg/Kg dry	0.216	ND	105		70-130	8.86	30	V-35
Benzene	0.0222	0.0022	mg/Kg dry	0.0216	ND	102		70-130	14.8	30	
Bromochloromethane	0.0232	0.0022	mg/Kg dry	0.0216	ND	107		70-130	14.4	30	
Bromodichloromethane	0.0207	0.0022	mg/Kg dry	0.0216	ND	95.8		70-130	9.40	30	
Bromoform	0.0166	0.0022	mg/Kg dry	0.0216	ND	76.8		70-130	9.58	30	
Bromomethane	0.00667	0.011	mg/Kg dry	0.0216	ND	**30.8**	*	70-130	9.16	30	MS-07A, J
2-Butanone (MEK)	0.229	0.043	mg/Kg dry	0.216	ND	106		70-130	8.52	30	
n-Butylbenzene	0.0250	0.0022	mg/Kg dry	0.0216	ND	115		70-130	10.2	30	
sec-Butylbenzene	0.0274	0.0022	mg/Kg dry	0.0216	ND	127		70-130	11.9	30	
tert-Butylbenzene	0.0253	0.0022	mg/Kg dry	0.0216	ND	117		70-130	12.7	30	
Carbon Disulfide	0.0371	0.022	mg/Kg dry	0.0216	ND	**171**	*	70-130	10.9	30	MS-15
Carbon Tetrachloride	0.0212	0.0022	mg/Kg dry	0.0216	ND	97.7		70-130	15.5	30	
Chlorobenzene	0.0185	0.0022	mg/Kg dry	0.0216	ND	85.4		70-130	14.7	30	
Chlorodibromomethane	0.0207	0.0011	mg/Kg dry	0.0216	ND	95.6		70-130	8.24	30	
Chloroethane	0.0258	0.022	mg/Kg dry	0.0216	ND	119		70-130	20.2	30	
Chloroform	0.0227	0.0043	mg/Kg dry	0.0216	ND	105		70-130	13.4	30	
Chloromethane	0.0308	0.011	mg/Kg dry	0.0216	ND	**142**	*	70-130	14.8	30	L-02, MS-15, V-20
Cyclohexane	0.0236	0.011	mg/Kg dry	0.0216	ND	109		70-130	13.6	30	
1,2-Dibromo-3-chloropropane (DBCP)	0.0189	0.0022	mg/Kg dry	0.0216	ND	87.2		70-130	8.68	30	
1,2-Dibromoethane (EDB)	0.0238	0.0011	mg/Kg dry	0.0216	ND	110		70-130	8.98	30	
1,2-Dichlorobenzene	0.0259	0.0022	mg/Kg dry	0.0216	ND	120		70-130	11.4	30	
1,3-Dichlorobenzene	0.0252	0.0022	mg/Kg dry	0.0216	ND	117		70-130	13.7	30	
1,4-Dichlorobenzene	0.0253	0.0022	mg/Kg dry	0.0216	ND	117		70-130	12.1	30	
Dichlorodifluoromethane (Freon 12)	0.0301	0.022	mg/Kg dry	0.0216	ND	**139**	*	70-130	16.8	30	MS-15, V-05, V-36
1,1-Dichloroethane	0.0241	0.0022	mg/Kg dry	0.0216	ND	111		70-130	14.8	30	
1,2-Dichloroethane	0.0228	0.0022	mg/Kg dry	0.0216	ND	105		70-130	10.7	30	
1,1-Dichloroethylene	0.0215	0.0043	mg/Kg dry	0.0216	ND	99.5		70-130	16.4	30	
cis-1,2-Dichloroethylene	0.0234	0.0022	mg/Kg dry	0.0216	ND	108		70-130	13.0	30	
trans-1,2-Dichloroethylene	0.0233	0.0022	mg/Kg dry	0.0216	ND	107		70-130	14.9	30	
1,2-Dichloropropane	0.0224	0.0022	mg/Kg dry	0.0216	ND	104		70-130	8.84	30	
cis-1,3-Dichloropropene	0.0202	0.0011	mg/Kg dry	0.0216	ND	93.2		70-130	10.0	30	
trans-1,3-Dichloropropene	0.0214	0.0011	mg/Kg dry	0.0216	ND	98.9		70-130	8.29	30	
Ethylbenzene	0.0215	0.0022	mg/Kg dry	0.0216	ND	99.3		70-130	11.8	30	
2-Hexanone (MBK)	0.236	0.022	mg/Kg dry	0.216	ND	109		70-130	6.06	30	
Isopropylbenzene (Cumene)	0.0225	0.0022	mg/Kg dry	0.0216	ND	104		70-130	12.8	30	
p-Isopropyltoluene (p-Cymene)	0.0273	0.0022	mg/Kg dry	0.0216	ND	126		70-130	11.5	30	
Methyl Acetate	0.0336	0.0022	mg/Kg dry	0.0216	ND	**155**	*	70-130	10.0	30	MS-15
Methyl tert-Butyl Ether (MTBE)	0.0220	0.0043	mg/Kg dry	0.0216	ND	102		70-130	11.0	30	
Methyl Cyclohexane	0.0236	0.0022	mg/Kg dry	0.0216	ND	109		70-130	10.8	30	
Methylene Chloride	0.0217	0.022	mg/Kg dry	0.0216	ND	100		70-130	19.8	30	
4-Methyl-2-pentanone (MIBK)	0.260	0.022	mg/Kg dry	0.216	ND	120		70-130	6.96	30	V-20
Naphthalene	0.0234	0.0043	mg/Kg dry	0.0216	ND	108		70-130	11.3	30	
n-Propylbenzene	0.0237	0.0022	mg/Kg dry	0.0216	ND	109		70-130	11.7	30	
Styrene	0.0213	0.0022	mg/Kg dry	0.0216	ND	98.6		70-130	12.4	30	
1,1,2,2-Tetrachloroethane	0.0215	0.0011	mg/Kg dry	0.0216	ND	99.5		70-130	11.2	30	
Tetrachloroethylene	0.0246	0.0022	mg/Kg dry	0.0216	ND	114		70-130	11.6	30	
Toluene	0.0225	0.0022	mg/Kg dry	0.0216	ND	104		70-130	11.2	30	
1,2,3-Trichlorobenzene	0.0237	0.0022	mg/Kg dry	0.0216	ND	109		70-130	12.8	30	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B374129 - SW-846 5035										
Matrix Spike Dup (B374129-MSD1)	**Source: 24E1437-06**			Prepared & Analyzed: 05/13/24						
1,2,4-Trichlorobenzene	0.0240	0.0022	mg/Kg dry	0.0216	ND	111	70-130	10.8	30	
1,1,1-Trichloroethane	0.0226	0.0022	mg/Kg dry	0.0216	ND	104	70-130	13.7	30	
1,1,2-Trichloroethane	0.0244	0.0022	mg/Kg dry	0.0216	ND	113	70-130	10.5	30	
Trichloroethylene	0.0227	0.0022	mg/Kg dry	0.0216	ND	105	70-130	11.7	30	
Trichlorofluoromethane (Freon 11)	0.0278	0.011	mg/Kg dry	0.0216	ND	128	70-130	15.2	30	
1,2,3-Trichloropropane	0.0213	0.0022	mg/Kg dry	0.0216	ND	98.6	70-130	9.51	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0239	0.011	mg/Kg dry	0.0216	ND	110	70-130	15.3	30	
1,2,4-Trimethylbenzene	0.0230	0.0022	mg/Kg dry	0.0216	ND	106	70-130	12.4	30	
1,3,5-Trimethylbenzene	0.0213	0.0022	mg/Kg dry	0.0216	ND	98.2	70-130	12.7	30	
Vinyl Chloride	0.0263	0.011	mg/Kg dry	0.0216	ND	122	70-130	13.1	30	
m+p Xylene	0.0439	0.0043	mg/Kg dry	0.0433	ND	101	70-130	12.6	30	
o-Xylene	0.0214	0.0022	mg/Kg dry	0.0216	ND	98.8	70-130	12.9	30	
Surrogate: 1,2-Dichloroethane-d4	*0.0554*		mg/Kg dry	0.0541		102	70-130			
Surrogate: Toluene-d8	*0.0517*		mg/Kg dry	0.0541		95.5	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0441*		mg/Kg dry	0.0541		81.5	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B374087 - SW-846 3546										
Blank (B374087-BLK1)				Prepared: 05/12/24 Analyzed: 05/15/24						
2,3,4,6-Tetrachlorophenol	ND	0.65	mg/Kg wet							
Atrazine	ND	0.65	mg/Kg wet							
Benzaldehyde	ND	0.33	mg/Kg wet							
Biphenyl	ND	0.65	mg/Kg wet							
Caprolactam	ND	0.33	mg/Kg wet							
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Acetophenone	ND	0.33	mg/Kg wet							
Aniline	ND	0.33	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.33	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.33	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.33	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.33	mg/Kg wet							L-05, V-06
4-Bromophenylphenylether	ND	0.33	mg/Kg wet							
Butylbenzylphthalate	ND	0.33	mg/Kg wet							V-06
Carbazole	ND	0.17	mg/Kg wet							
4-Chloroaniline	ND	0.64	mg/Kg wet							
4-Chloro-3-methylphenol	ND	0.64	mg/Kg wet							
2-Chloronaphthalene	ND	0.33	mg/Kg wet							
2-Chlorophenol	ND	0.33	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.33	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							V-06
Dibenzofuran	ND	0.33	mg/Kg wet							
Di-n-butylphthalate	ND	0.33	mg/Kg wet							V-06
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.33	mg/Kg wet							
Diethylphthalate	ND	0.33	mg/Kg wet							
2,4-Dimethylphenol	ND	0.33	mg/Kg wet							
Dimethylphthalate	ND	0.33	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.33	mg/Kg wet							
2,4-Dinitrophenol	ND	0.64	mg/Kg wet							
2,4-Dinitrotoluene	ND	0.33	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.33	mg/Kg wet							
Di-n-octylphthalate	ND	0.33	mg/Kg wet							L-02, V-06
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.33	mg/Kg wet							
Hexachlorobutadiene	ND	0.33	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.33	mg/Kg wet							L-04, V-05
Hexachloroethane	ND	0.33	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.33	mg/Kg wet							
1-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.33	mg/Kg wet							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B374087 - SW-846 3546												
Blank (B374087-BLK1)				Prepared: 05/12/24 Analyzed: 05/15/24								
3/4-Methylphenol	ND	0.33	mg/Kg wet									
Naphthalene	ND	0.17	mg/Kg wet									
2-Nitroaniline	ND	0.33	mg/Kg wet									
3-Nitroaniline	ND	0.33	mg/Kg wet									
4-Nitroaniline	ND	0.33	mg/Kg wet									
Nitrobenzene	ND	0.33	mg/Kg wet									
2-Nitrophenol	ND	0.33	mg/Kg wet									
4-Nitrophenol	ND	0.64	mg/Kg wet									
N-Nitrosodiphenylamine/Diphenylamine	ND	0.33	mg/Kg wet									
N-Nitrosodi-n-propylamine	ND	0.33	mg/Kg wet									
Pentachlorophenol	ND	0.33	mg/Kg wet								V-05	
Phenanthrene	ND	0.17	mg/Kg wet									
Phenol	ND	0.33	mg/Kg wet									
Pyrene	ND	0.17	mg/Kg wet									
Pyridine	ND	0.33	mg/Kg wet									
1,2,4,5-Tetrachlorobenzene	ND	0.33	mg/Kg wet									
2,4,5-Trichlorophenol	ND	0.33	mg/Kg wet									
2,4,6-Trichlorophenol	ND	0.33	mg/Kg wet									
Surrogate: 2-Fluorophenol	*5.59*		mg/Kg wet	6.49		86.1		30-130				
Surrogate: Phenol-d6	*5.59*		mg/Kg wet	6.49		86.1		30-130				
Surrogate: Nitrobenzene-d5	*2.88*		mg/Kg wet	3.25		88.8		30-130				
Surrogate: 2-Fluorobiphenyl	*2.74*		mg/Kg wet	3.25		84.3		30-130				
Surrogate: 2,4,6-Tribromophenol	*4.52*		mg/Kg wet	6.49		69.6		30-130				
Surrogate: p-Terphenyl-d14	*3.52*		mg/Kg wet	3.25		108		30-130				
LCS (B374087-BS1)				Prepared: 05/12/24 Analyzed: 05/15/24								
2,3,4,6-Tetrachlorophenol	1.27	0.66	mg/Kg wet	1.63		77.8		40-140				
Atrazine	1.53	0.66	mg/Kg wet	1.63		93.7		40-140				
Benzaldehyde	0.884	0.33	mg/Kg wet	1.63		54.2		40-140				
Biphenyl	1.61	0.66	mg/Kg wet	1.63		98.7		40-140				
Caprolactam	1.33	0.33	mg/Kg wet	1.63		81.6		40-140				
Acenaphthene	1.37	0.17	mg/Kg wet	1.63		83.9		40-140				
Acenaphthylene	1.39	0.17	mg/Kg wet	1.63		85.1		40-140				
Acetophenone	1.50	0.33	mg/Kg wet	1.63		91.8		40-140				
Aniline	0.831	0.33	mg/Kg wet	1.63		50.9		10-140				†
Anthracene	1.50	0.17	mg/Kg wet	1.63		92.1		40-140				
Benzo(a)anthracene	1.50	0.17	mg/Kg wet	1.63		91.8		40-140				
Benzo(a)pyrene	1.49	0.17	mg/Kg wet	1.63		91.1		40-140				
Benzo(b)fluoranthene	1.50	0.17	mg/Kg wet	1.63		92.2		40-140				
Benzo(g,h,i)perylene	1.66	0.17	mg/Kg wet	1.63		101		40-140				
Benzo(k)fluoranthene	1.58	0.17	mg/Kg wet	1.63		97.0		40-140				
Bis(2-chloroethoxy)methane	1.59	0.33	mg/Kg wet	1.63		97.1		40-140				
Bis(2-chloroethyl)ether	1.62	0.33	mg/Kg wet	1.63		99.2		40-140				
Bis(2-chloroisopropyl)ether	2.22	0.33	mg/Kg wet	1.63		136		40-140				
Bis(2-Ethylhexyl)phthalate	2.49	0.33	mg/Kg wet	1.63		**153**	*	40-140			L-05, V-06	
4-Bromophenylphenylether	1.50	0.33	mg/Kg wet	1.63		91.9		40-140				
Butylbenzylphthalate	1.93	0.33	mg/Kg wet	1.63		118		40-140			V-06	
Carbazole	1.48	0.17	mg/Kg wet	1.63		90.8		40-140				
4-Chloroaniline	0.904	0.65	mg/Kg wet	1.63		55.4		10-140				†
4-Chloro-3-methylphenol	1.51	0.65	mg/Kg wet	1.63		92.2		30-130				
2-Chloronaphthalene	1.36	0.33	mg/Kg wet	1.63		83.1		40-140				
2-Chlorophenol	1.46	0.33	mg/Kg wet	1.63		89.5		30-130				

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B374087 - SW-846 3546												
LCS (B374087-BS1)				Prepared: 05/12/24 Analyzed: 05/15/24								
4-Chlorophenylphenylether	1.51	0.33	mg/Kg wet	1.63		92.8		40-140				
Chrysene	1.46	0.17	mg/Kg wet	1.63		89.4		40-140				
Dibenz(a,h)anthracene	1.85	0.17	mg/Kg wet	1.63		113		40-140			V-06	
Dibenzofuran	1.52	0.33	mg/Kg wet	1.63		93.0		40-140				
Di-n-butylphthalate	1.93	0.33	mg/Kg wet	1.63		118		40-140			V-06	
3,3-Dichlorobenzidine	1.09	0.17	mg/Kg wet	1.63		66.6		20-140				†
2,4-Dichlorophenol	1.35	0.33	mg/Kg wet	1.63		83.0		30-130				
Diethylphthalate	1.66	0.33	mg/Kg wet	1.63		102		40-140				
2,4-Dimethylphenol	0.838	0.33	mg/Kg wet	1.63		51.3		30-130				
Dimethylphthalate	1.52	0.33	mg/Kg wet	1.63		93.4		40-140				
4,6-Dinitro-2-methylphenol	1.52	0.33	mg/Kg wet	1.63		93.3		30-130				
2,4-Dinitrophenol	0.907	0.65	mg/Kg wet	1.63		55.6		30-130				
2,4-Dinitrotoluene	1.59	0.33	mg/Kg wet	1.63		97.7		40-140				
2,6-Dinitrotoluene	1.64	0.33	mg/Kg wet	1.63		100		40-140				
Di-n-octylphthalate	2.43	0.33	mg/Kg wet	1.63		**149**	*	40-140			V-06, L-02	
Fluoranthene	1.47	0.17	mg/Kg wet	1.63		89.8		40-140				
Fluorene	1.48	0.17	mg/Kg wet	1.63		90.4		40-140				
Hexachlorobenzene	1.37	0.33	mg/Kg wet	1.63		84.1		40-140				
Hexachlorobutadiene	1.33	0.33	mg/Kg wet	1.63		81.7		40-140				
Hexachlorocyclopentadiene	0.298	0.33	mg/Kg wet	1.63		**18.3**	*	40-140			L-04, V-05, J	
Hexachloroethane	1.41	0.33	mg/Kg wet	1.63		86.1		40-140				
Indeno(1,2,3-cd)pyrene	1.78	0.17	mg/Kg wet	1.63		109		40-140				
Isophorone	1.60	0.33	mg/Kg wet	1.63		97.9		40-140				
1-Methylnaphthalene	1.45	0.17	mg/Kg wet	1.63		88.6		40-140				
2-Methylnaphthalene	1.47	0.17	mg/Kg wet	1.63		89.7		40-140				
2-Methylphenol	1.46	0.33	mg/Kg wet	1.63		89.7		30-130				
3/4-Methylphenol	1.63	0.33	mg/Kg wet	1.63		99.8		30-130				
Naphthalene	1.44	0.17	mg/Kg wet	1.63		88.3		40-140				
2-Nitroaniline	1.75	0.33	mg/Kg wet	1.63		107		40-140				
3-Nitroaniline	1.39	0.33	mg/Kg wet	1.63		84.9		30-140				†
4-Nitroaniline	1.51	0.33	mg/Kg wet	1.63		92.8		40-140				
Nitrobenzene	1.48	0.33	mg/Kg wet	1.63		90.5		40-140				
2-Nitrophenol	1.50	0.33	mg/Kg wet	1.63		91.6		30-130				
4-Nitrophenol	1.59	0.65	mg/Kg wet	1.63		97.4		30-130				
N-Nitrosodiphenylamine/Diphenylamine	1.64	0.33	mg/Kg wet	1.63		100		40-140				
N-Nitrosodi-n-propylamine	1.71	0.33	mg/Kg wet	1.63		105		40-140			V-06	
Pentachlorophenol	1.02	0.33	mg/Kg wet	1.63		62.5		30-130			V-05	
Phenanthrene	1.50	0.17	mg/Kg wet	1.63		91.9		40-140				
Phenol	1.50	0.33	mg/Kg wet	1.63		91.9		30-130				
Pyrene	1.44	0.17	mg/Kg wet	1.63		88.4		40-140				
Pyridine	0.801	0.33	mg/Kg wet	1.63		49.1		30-140				†
1,2,4,5-Tetrachlorobenzene	1.38	0.33	mg/Kg wet	1.63		84.3		40-140				
2,4,5-Trichlorophenol	1.44	0.33	mg/Kg wet	1.63		88.0		30-130				
2,4,6-Trichlorophenol	1.41	0.33	mg/Kg wet	1.63		86.2		30-130				
Surrogate: 2-Fluorophenol	*6.54*		mg/Kg wet	6.53		100		30-130				
Surrogate: Phenol-d6	*6.43*		mg/Kg wet	6.53		98.5		30-130				
Surrogate: Nitrobenzene-d5	*3.31*		mg/Kg wet	3.27		101		30-130				
Surrogate: 2-Fluorobiphenyl	*3.32*		mg/Kg wet	3.27		102		30-130				
Surrogate: 2,4,6-Tribromophenol	*5.97*		mg/Kg wet	6.53		91.5		30-130				
Surrogate: p-Terphenyl-d14	*3.63*		mg/Kg wet	3.27		111		30-130				

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B374087 - SW-846 3546												
LCS Dup (B374087-BSD1)				Prepared: 05/12/24 Analyzed: 05/15/24								
2,3,4,6-Tetrachlorophenol	1.24	0.66	mg/Kg wet	1.64		75.6		40-140	2.29	20		
Atrazine	1.49	0.66	mg/Kg wet	1.64		91.0		40-140	2.45	30		
Benzaldehyde	0.859	0.33	mg/Kg wet	1.64		52.3		40-140	2.86	20		
Biphenyl	1.54	0.66	mg/Kg wet	1.64		93.7		40-140	4.66	20		
Caprolactam	1.27	0.33	mg/Kg wet	1.64		77.5		40-140	4.55	20		
Acenaphthene	1.33	0.17	mg/Kg wet	1.64		80.9		40-140	3.13	30		
Acenaphthylene	1.35	0.17	mg/Kg wet	1.64		82.3		40-140	2.76	30		
Acetophenone	1.42	0.33	mg/Kg wet	1.64		86.3		40-140	5.62	30		
Aniline	0.751	0.33	mg/Kg wet	1.64		45.8		10-140	10.0	50		† ‡
Anthracene	1.48	0.17	mg/Kg wet	1.64		90.4		40-140	1.35	30		
Benzo(a)anthracene	1.49	0.17	mg/Kg wet	1.64		90.7		40-140	0.736	30		
Benzo(a)pyrene	1.48	0.17	mg/Kg wet	1.64		90.0		40-140	0.658	30		
Benzo(b)fluoranthene	1.46	0.17	mg/Kg wet	1.64		89.2		40-140	2.71	30		
Benzo(g,h,i)perylene	1.64	0.17	mg/Kg wet	1.64		100		40-140	0.733	30		
Benzo(k)fluoranthene	1.58	0.17	mg/Kg wet	1.64		96.5		40-140	0.0192	30		
Bis(2-chloroethoxy)methane	1.55	0.33	mg/Kg wet	1.64		94.1		40-140	2.60	30		
Bis(2-chloroethyl)ether	1.57	0.33	mg/Kg wet	1.64		95.7		40-140	3.12	30		
Bis(2-chloroisopropyl)ether	2.13	0.33	mg/Kg wet	1.64		130		40-140	3.98	30		
Bis(2-Ethylhexyl)phthalate	2.43	0.33	mg/Kg wet	1.64		**148**	*	40-140	2.42	30	L-05, V-06	
4-Bromophenylphenylether	1.44	0.33	mg/Kg wet	1.64		87.6		40-140	4.28	30		
Butylbenzylphthalate	1.91	0.33	mg/Kg wet	1.64		116		40-140	1.29	30	V-06	
Carbazole	1.48	0.17	mg/Kg wet	1.64		90.2		40-140	0.173	30		
4-Chloroaniline	0.827	0.65	mg/Kg wet	1.64		50.4		10-140	8.94	30		†
4-Chloro-3-methylphenol	1.47	0.65	mg/Kg wet	1.64		89.2		30-130	2.75	30		
2-Chloronaphthalene	1.19	0.33	mg/Kg wet	1.64		72.3		40-140	13.3	30		
2-Chlorophenol	1.41	0.33	mg/Kg wet	1.64		85.8		30-130	3.64	30		
4-Chlorophenylphenylether	1.46	0.33	mg/Kg wet	1.64		89.1		40-140	3.42	30		
Chrysene	1.46	0.17	mg/Kg wet	1.64		89.1		40-140	0.198	30		
Dibenz(a,h)anthracene	1.83	0.17	mg/Kg wet	1.64		111		40-140	0.959	30	V-06	
Dibenzofuran	1.47	0.33	mg/Kg wet	1.64		89.7		40-140	3.06	30		
Di-n-butylphthalate	1.93	0.33	mg/Kg wet	1.64		118		40-140	0.0135	30	V-06	
3,3-Dichlorobenzidine	1.00	0.17	mg/Kg wet	1.64		60.9		20-140	8.36	50		† ‡
2,4-Dichlorophenol	1.30	0.33	mg/Kg wet	1.64		79.3		30-130	3.95	30		
Diethylphthalate	1.60	0.33	mg/Kg wet	1.64		97.4		40-140	3.66	30		
2,4-Dimethylphenol	0.801	0.33	mg/Kg wet	1.64		48.8		30-130	4.56	30		
Dimethylphthalate	1.48	0.33	mg/Kg wet	1.64		90.0		40-140	3.15	30		
4,6-Dinitro-2-methylphenol	1.56	0.33	mg/Kg wet	1.64		94.9		30-130	2.28	30		
2,4-Dinitrophenol	0.902	0.65	mg/Kg wet	1.64		54.9		30-130	0.565	30		
2,4-Dinitrotoluene	1.57	0.33	mg/Kg wet	1.64		95.3		40-140	1.87	30		
2,6-Dinitrotoluene	1.61	0.33	mg/Kg wet	1.64		97.8		40-140	2.05	30		
Di-n-octylphthalate	2.35	0.33	mg/Kg wet	1.64		**143**	*	40-140	3.43	30	L-02, V-06	
Fluoranthene	1.47	0.17	mg/Kg wet	1.64		89.7		40-140	0.490	30		
Fluorene	1.42	0.17	mg/Kg wet	1.64		86.6		40-140	3.74	30		
Hexachlorobenzene	1.37	0.33	mg/Kg wet	1.64		83.2		40-140	0.567	30		
Hexachlorobutadiene	1.27	0.33	mg/Kg wet	1.64		77.1		40-140	5.29	30		
Hexachlorocyclopentadiene	0.240	0.33	mg/Kg wet	1.64		**14.6**	*	40-140	21.7	30	L-04, V-05, J	
Hexachloroethane	1.37	0.33	mg/Kg wet	1.64		83.6		40-140	2.48	30		
Indeno(1,2,3-cd)pyrene	1.74	0.17	mg/Kg wet	1.64		106		40-140	2.63	30		
Isophorone	1.53	0.33	mg/Kg wet	1.64		92.9		40-140	4.68	30		
1-Methylnaphthalene	1.38	0.17	mg/Kg wet	1.64		84.3		40-140	4.37	30		
2-Methylnaphthalene	1.39	0.17	mg/Kg wet	1.64		84.4		40-140	5.55	30		
2-Methylphenol	1.42	0.33	mg/Kg wet	1.64		86.2		30-130	3.40	30		

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B374087 - SW-846 3546												
LCS Dup (B374087-BSD1)				Prepared: 05/12/24 Analyzed: 05/15/24								
3/4-Methylphenol	1.55	0.33	mg/Kg wet	1.64		94.3		30-130	5.07	30		
Naphthalene	1.38	0.17	mg/Kg wet	1.64		84.1		40-140	4.29	30		
2-Nitroaniline	1.71	0.33	mg/Kg wet	1.64		104		40-140	2.13	30		
3-Nitroaniline	1.35	0.33	mg/Kg wet	1.64		82.0		30-140	2.99	30		†
4-Nitroaniline	1.51	0.33	mg/Kg wet	1.64		91.7		40-140	0.614	30		
Nitrobenzene	1.43	0.33	mg/Kg wet	1.64		86.9		40-140	3.43	30		
2-Nitrophenol	1.44	0.33	mg/Kg wet	1.64		87.6		30-130	3.91	30		
4-Nitrophenol	1.57	0.65	mg/Kg wet	1.64		95.7		30-130	1.29	50		‡
N-Nitrosodiphenylamine/Diphenylamine	1.60	0.33	mg/Kg wet	1.64		97.3		40-140	2.46	30		
N-Nitrosodi-n-propylamine	1.61	0.33	mg/Kg wet	1.64		97.9		40-140	6.19	30		
Pentachlorophenol	1.03	0.33	mg/Kg wet	1.64		62.8		30-130	1.04	30	V-05	
Phenanthrene	1.48	0.17	mg/Kg wet	1.64		89.9		40-140	1.58	30		
Phenol	1.45	0.33	mg/Kg wet	1.64		88.3		30-130	3.53	30		
Pyrene	1.44	0.17	mg/Kg wet	1.64		87.4		40-140	0.581	30		
Pyridine	0.811	0.33	mg/Kg wet	1.64		49.4		30-140	1.21	30		†
1,2,4,5-Tetrachlorobenzene	1.31	0.33	mg/Kg wet	1.64		79.9		40-140	4.85	30		
2,4,5-Trichlorophenol	1.39	0.33	mg/Kg wet	1.64		84.6		30-130	3.36	30		
2,4,6-Trichlorophenol	1.36	0.33	mg/Kg wet	1.64		82.8		30-130	3.49	30		
Surrogate: 2-Fluorophenol	*6.19*		mg/Kg wet	6.57		94.2		30-130				
Surrogate: Phenol-d6	*6.05*		mg/Kg wet	6.57		92.1		30-130				
Surrogate: Nitrobenzene-d5	*3.09*		mg/Kg wet	3.28		94.0		30-130				
Surrogate: 2-Fluorobiphenyl	*3.13*		mg/Kg wet	3.28		95.4		30-130				
Surrogate: 2,4,6-Tribromophenol	*5.71*		mg/Kg wet	6.57		86.9		30-130				
Surrogate: p-Terphenyl-d14	*3.52*		mg/Kg wet	3.28		107		30-130				
Matrix Spike (B374087-MS1)	**Source: 24E1437-06**			Prepared: 05/12/24 Analyzed: 05/16/24								
2,3,4,6-Tetrachlorophenol	0.891	0.92	mg/Kg dry	2.30	ND	**38.8**	*	40-140			MS-09, J	
Atrazine	1.10	0.92	mg/Kg dry	2.30	ND	47.6		40-140				
Benzaldehyde	0.605	0.47	mg/Kg dry	2.30	ND	**26.3**	*	40-140			MS-09	
Biphenyl	1.14	0.92	mg/Kg dry	2.30	ND	49.8		40-140				
Caprolactam	1.03	0.47	mg/Kg dry	2.30	ND	45.0		40-140				
Acenaphthene	0.990	0.23	mg/Kg dry	2.30	ND	43.1		40-140				
Acenaphthylene	0.999	0.23	mg/Kg dry	2.30	ND	43.5		40-140				
Acetophenone	1.09	0.47	mg/Kg dry	2.30	ND	47.3		40-140				
Aniline	0.240	0.47	mg/Kg dry	2.30	ND	**10.4**	*	40-140			MS-09, J	
Anthracene	1.07	0.23	mg/Kg dry	2.30	ND	46.5		40-140				
Benzo(a)anthracene	1.13	0.23	mg/Kg dry	2.30	ND	49.0		40-140				
Benzo(a)pyrene	1.05	0.23	mg/Kg dry	2.30	ND	45.6		40-140				
Benzo(b)fluoranthene	1.07	0.23	mg/Kg dry	2.30	ND	46.8		40-140				
Benzo(g,h,i)perylene	0.843	0.23	mg/Kg dry	2.30	ND	**36.7**	*	40-140			MS-09	
Benzo(k)fluoranthene	1.17	0.23	mg/Kg dry	2.30	ND	51.0		40-140				
Bis(2-chloroethoxy)methane	1.13	0.47	mg/Kg dry	2.30	ND	49.2		40-140				
Bis(2-chloroethyl)ether	1.15	0.47	mg/Kg dry	2.30	ND	50.1		40-140				
Bis(2-chloroisopropyl)ether	1.57	0.47	mg/Kg dry	2.30	ND	68.5		40-140			V-06	
Bis(2-Ethylhexyl)phthalate	1.66	0.47	mg/Kg dry	2.30	ND	72.1		40-140			V-06	
4-Bromophenylphenylether	1.03	0.47	mg/Kg dry	2.30	ND	45.0		40-140				
Butylbenzylphthalate	1.50	0.47	mg/Kg dry	2.30	ND	65.1		40-140				
Carbazole	1.09	0.23	mg/Kg dry	2.30	ND	47.6		40-140				
4-Chloroaniline	0.428	0.91	mg/Kg dry	2.30	ND	**18.6**	*	40-140			MS-09, J	
4-Chloro-3-methylphenol	1.11	0.91	mg/Kg dry	2.30	ND	48.3		30-130				
2-Chloronaphthalene	0.924	0.47	mg/Kg dry	2.30	ND	40.2		40-140				
2-Chlorophenol	1.01	0.47	mg/Kg dry	2.30	ND	43.8		30-130				

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B374087 - SW-846 3546											
Matrix Spike (B374087-MS1)		**Source: 24E1437-06**		Prepared: 05/12/24 Analyzed: 05/16/24							
4-Chlorophenylphenylether	1.05	0.47	mg/Kg dry	2.30	ND	45.8		40-140			
Chrysene	1.10	0.23	mg/Kg dry	2.30	ND	48.0		40-140			
Dibenz(a,h)anthracene	1.04	0.23	mg/Kg dry	2.30	ND	45.4		40-140			
Dibenzofuran	1.10	0.47	mg/Kg dry	2.30	ND	47.9		40-140			
Di-n-butylphthalate	1.22	0.47	mg/Kg dry	2.30	ND	52.9		40-140			
3,3-Dichlorobenzidine	0.162	0.23	mg/Kg dry	2.30	ND	**7.04**	*	40-140			MS-09, J
2,4-Dichlorophenol	0.964	0.47	mg/Kg dry	2.30	ND	41.9		30-130			
Diethylphthalate	1.15	0.47	mg/Kg dry	2.30	ND	49.8		40-140			
2,4-Dimethylphenol	0.360	0.47	mg/Kg dry	2.30	ND	**15.7**	*	30-130			MS-09, J
Dimethylphthalate	1.12	0.47	mg/Kg dry	2.30	ND	48.7		40-140			
4,6-Dinitro-2-methylphenol	1.04	0.47	mg/Kg dry	2.30	ND	45.2		30-130			
2,4-Dinitrophenol	0.860	0.91	mg/Kg dry	2.30	ND	37.4		30-130			J
2,4-Dinitrotoluene	1.19	0.47	mg/Kg dry	2.30	ND	51.9		40-140			
2,6-Dinitrotoluene	1.22	0.47	mg/Kg dry	2.30	ND	53.2		40-140			
Di-n-octylphthalate	1.53	0.47	mg/Kg dry	2.30	ND	66.5		40-140			V-06
Fluoranthene	0.988	0.23	mg/Kg dry	2.30	0.0708	**39.9**	*	40-140			MS-09
Fluorene	1.06	0.23	mg/Kg dry	2.30	ND	46.3		40-140			
Hexachlorobenzene	0.982	0.47	mg/Kg dry	2.30	ND	42.7		40-140			
Hexachlorobutadiene	0.922	0.47	mg/Kg dry	2.30	ND	40.1		40-140			
Hexachlorocyclopentadiene	0.00506	0.47	mg/Kg dry	2.30	ND	**0.220**	*	30-130			V-05, MS-09, J
Hexachloroethane	0.753	0.47	mg/Kg dry	2.30	ND	**32.7**	*	40-140			MS-09
Indeno(1,2,3-cd)pyrene	0.932	0.23	mg/Kg dry	2.30	ND	40.6		40-140			
Isophorone	1.15	0.47	mg/Kg dry	2.30	ND	50.0		40-140			
1-Methylnaphthalene	1.05	0.23	mg/Kg dry	2.30	ND	45.6		40-140			
2-Methylnaphthalene	1.04	0.23	mg/Kg dry	2.30	ND	45.5		40-140			
2-Methylphenol	0.916	0.47	mg/Kg dry	2.30	ND	39.9		30-130			
3/4-Methylphenol	1.04	0.47	mg/Kg dry	2.30	ND	45.2		30-130			
Naphthalene	1.04	0.23	mg/Kg dry	2.30	ND	45.1		40-140			
2-Nitroaniline	1.38	0.47	mg/Kg dry	2.30	ND	60.2		40-140			
3-Nitroaniline	1.53	0.47	mg/Kg dry	2.30	ND	66.6		40-140			
4-Nitroaniline	1.04	0.47	mg/Kg dry	2.30	ND	45.1		40-140			
Nitrobenzene	1.08	0.47	mg/Kg dry	2.30	ND	46.9		40-140			
2-Nitrophenol	1.10	0.47	mg/Kg dry	2.30	ND	47.9		30-130			
4-Nitrophenol	1.28	0.91	mg/Kg dry	2.30	ND	55.9		30-130			
N-Nitrosodiphenylamine/Diphenylamine	1.08	0.47	mg/Kg dry	2.30	ND	47.1		40-140			
N-Nitrosodi-n-propylamine	1.18	0.47	mg/Kg dry	2.30	ND	51.2		40-140			V-06
Pentachlorophenol	0.624	0.47	mg/Kg dry	2.30	ND	**27.1**	*	30-130			V-05, MS-09
Phenanthrene	1.10	0.23	mg/Kg dry	2.30	ND	47.7		40-140			
Phenol	1.05	0.47	mg/Kg dry	2.30	ND	45.9		30-130			
Pyrene	1.39	0.23	mg/Kg dry	2.30	0.0823	56.7		40-140			
Pyridine	0.548	0.47	mg/Kg dry	2.30	ND	**23.8**	*	40-140			MS-09
1,2,4,5-Tetrachlorobenzene	0.967	0.47	mg/Kg dry	2.30	ND	42.1		40-140			
2,4,5-Trichlorophenol	1.05	0.47	mg/Kg dry	2.30	ND	45.6		30-130			
2,4,6-Trichlorophenol	0.957	0.47	mg/Kg dry	2.30	ND	41.6		30-130			
Surrogate: 2-Fluorophenol	*4.32*		mg/Kg dry	9.19		47.0		30-130			
Surrogate: Phenol-d6	*4.40*		mg/Kg dry	9.19		47.9		30-130			
Surrogate: Nitrobenzene-d5	*2.36*		mg/Kg dry	4.60		51.4		30-130			
Surrogate: 2-Fluorobiphenyl	*2.33*		mg/Kg dry	4.60		50.6		30-130			
Surrogate: 2,4,6-Tribromophenol	*3.69*		mg/Kg dry	9.19		40.2		30-130			
Surrogate: p-Terphenyl-d14	*3.15*		mg/Kg dry	4.60		68.5		30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B374087 - SW-846 3546											
Matrix Spike Dup (B374087-MSD1)	**Source: 24E1437-06**			Prepared: 05/12/24 Analyzed: 05/16/24							
2,3,4,6-Tetrachlorophenol	0.845	0.92	mg/Kg dry	2.30	ND	**36.8**	*	40-140	5.29	30	MS-09, J
Atrazine	1.04	0.92	mg/Kg dry	2.30	ND	45.4		40-140	4.77	30	
Benzaldehyde	0.633	0.47	mg/Kg dry	2.30	ND	**27.6**	*	40-140	4.60	30	MS-09
Biphenyl	1.10	0.92	mg/Kg dry	2.30	ND	47.9		40-140	3.77	30	
Caprolactam	0.973	0.47	mg/Kg dry	2.30	ND	42.3		40-140	6.14	30	
Acenaphthene	0.949	0.23	mg/Kg dry	2.30	ND	41.3		40-140	4.27	30	
Acenaphthylene	0.958	0.23	mg/Kg dry	2.30	ND	41.7		40-140	4.23	30	
Acetophenone	1.05	0.47	mg/Kg dry	2.30	ND	45.9		40-140	3.09	30	
Aniline	0.234	0.47	mg/Kg dry	2.30	ND	**10.2**	*	40-140	2.53	30	MS-09, J
Anthracene	1.01	0.23	mg/Kg dry	2.30	ND	44.1		40-140	5.16	30	
Benzo(a)anthracene	1.05	0.23	mg/Kg dry	2.30	ND	45.7		40-140	7.01	30	
Benzo(a)pyrene	0.959	0.23	mg/Kg dry	2.30	ND	41.7		40-140	8.88	30	
Benzo(b)fluoranthene	0.968	0.23	mg/Kg dry	2.30	ND	42.1		40-140	10.4	30	
Benzo(g,h,i)perylene	0.764	0.23	mg/Kg dry	2.30	ND	**33.2**	*	40-140	9.84	30	MS-09
Benzo(k)fluoranthene	1.12	0.23	mg/Kg dry	2.30	ND	48.7		40-140	4.53	30	
Bis(2-chloroethoxy)methane	1.09	0.47	mg/Kg dry	2.30	ND	47.3		40-140	3.86	30	
Bis(2-chloroethyl)ether	1.08	0.47	mg/Kg dry	2.30	ND	47.2		40-140	6.09	30	
Bis(2-chloroisopropyl)ether	1.43	0.47	mg/Kg dry	2.30	ND	62.3		40-140	9.42	30	V-06
Bis(2-Ethylhexyl)phthalate	1.53	0.47	mg/Kg dry	2.30	ND	66.7		40-140	7.70	30	V-06
4-Bromophenylphenylether	1.02	0.47	mg/Kg dry	2.30	ND	44.5		40-140	1.12	30	
Butylbenzylphthalate	1.38	0.47	mg/Kg dry	2.30	ND	60.1		40-140	7.98	30	
Carbazole	1.02	0.23	mg/Kg dry	2.30	ND	44.5		40-140	6.60	30	
4-Chloroaniline	0.436	0.91	mg/Kg dry	2.30	ND	**19.0**	*	40-140	2.02	30	MS-09, J
4-Chloro-3-methylphenol	1.05	0.91	mg/Kg dry	2.30	ND	45.5		30-130	5.89	30	
2-Chloronaphthalene	0.899	0.47	mg/Kg dry	2.30	ND	**39.1**	*	40-140	2.72	30	MS-22
2-Chlorophenol	0.992	0.47	mg/Kg dry	2.30	ND	43.1		30-130	1.47	30	
4-Chlorophenylphenylether	1.03	0.47	mg/Kg dry	2.30	ND	44.8		40-140	2.12	30	
Chrysene	1.04	0.23	mg/Kg dry	2.30	ND	45.3		40-140	5.75	30	
Dibenz(a,h)anthracene	0.889	0.23	mg/Kg dry	2.30	ND	**38.7**	*	40-140	15.9	30	MS-22
Dibenzofuran	1.05	0.47	mg/Kg dry	2.30	ND	45.8		40-140	4.52	30	
Di-n-butylphthalate	1.12	0.47	mg/Kg dry	2.30	ND	48.7		40-140	8.23	30	
3,3-Dichlorobenzidine	0.176	0.23	mg/Kg dry	2.30	ND	**7.64**	*	40-140	8.17	30	MS-09, J
2,4-Dichlorophenol	0.943	0.47	mg/Kg dry	2.30	ND	41.0		30-130	2.12	30	
Diethylphthalate	1.08	0.47	mg/Kg dry	2.30	ND	46.8		40-140	6.25	30	
2,4-Dimethylphenol	0.267	0.47	mg/Kg dry	2.30	ND	**11.6**	*	30-130	29.9	30	MS-09, J
Dimethylphthalate	1.09	0.47	mg/Kg dry	2.30	ND	47.3		40-140	2.92	30	
4,6-Dinitro-2-methylphenol	0.984	0.47	mg/Kg dry	2.30	ND	42.8		30-130	5.41	30	
2,4-Dinitrophenol	0.841	0.91	mg/Kg dry	2.30	ND	36.6		30-130	2.16	30	J
2,4-Dinitrotoluene	1.15	0.47	mg/Kg dry	2.30	ND	50.1		40-140	3.53	30	
2,6-Dinitrotoluene	1.19	0.47	mg/Kg dry	2.30	ND	51.8		40-140	2.74	30	
Di-n-octylphthalate	1.34	0.47	mg/Kg dry	2.30	ND	58.2		40-140	13.3	30	V-06
Fluoranthene	0.952	0.23	mg/Kg dry	2.30	0.0708	**38.3**	*	40-140	3.74	30	MS-09
Fluorene	1.01	0.23	mg/Kg dry	2.30	ND	43.9		40-140	5.28	30	
Hexachlorobenzene	0.970	0.47	mg/Kg dry	2.30	ND	42.2		40-140	1.27	30	
Hexachlorobutadiene	0.971	0.47	mg/Kg dry	2.30	ND	42.2		40-140	5.15	30	
Hexachlorocyclopentadiene	0.00965	0.47	mg/Kg dry	2.30	ND	**0.420**	*	30-130		30	MS-09, V-05, J
Hexachloroethane	0.773	0.47	mg/Kg dry	2.30	ND	**33.6**	*	40-140	2.65	30	MS-09
Indeno(1,2,3-cd)pyrene	0.825	0.23	mg/Kg dry	2.30	ND	**35.9**	*	40-140	12.2	30	MS-22
Isophorone	1.09	0.47	mg/Kg dry	2.30	ND	47.4		40-140	5.38	30	
1-Methylnaphthalene	1.03	0.23	mg/Kg dry	2.30	ND	44.7		40-140	1.99	30	
2-Methylnaphthalene	1.03	0.23	mg/Kg dry	2.30	ND	44.7		40-140	1.60	30	
2-Methylphenol	0.848	0.47	mg/Kg dry	2.30	ND	36.9		30-130	7.71	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B374087 - SW-846 3546											
Matrix Spike Dup (B374087-MSD1)	**Source: 24E1437-06**			Prepared: 05/12/24 Analyzed: 05/16/24							
3/4-Methylphenol	0.954	0.47	mg/Kg dry	2.30	ND	41.5		30-130	8.44	30	
Naphthalene	1.03	0.23	mg/Kg dry	2.30	ND	44.9		40-140	0.355	30	
2-Nitroaniline	1.21	0.47	mg/Kg dry	2.30	ND	52.5		40-140	13.7	30	
3-Nitroaniline	1.38	0.47	mg/Kg dry	2.30	ND	60.0		40-140	10.4	30	
4-Nitroaniline	1.02	0.47	mg/Kg dry	2.30	ND	44.2		40-140	2.11	30	
Nitrobenzene	1.02	0.47	mg/Kg dry	2.30	ND	44.3		40-140	5.61	30	
2-Nitrophenol	1.09	0.47	mg/Kg dry	2.30	ND	47.4		30-130	1.13	30	
4-Nitrophenol	1.20	0.91	mg/Kg dry	2.30	ND	52.3		30-130	6.65	30	
N-Nitrosodiphenylamine/Diphenylamine	1.01	0.47	mg/Kg dry	2.30	ND	43.8		40-140	7.35	30	
N-Nitrosodi-n-propylamine	1.11	0.47	mg/Kg dry	2.30	ND	48.1		40-140	6.20	30	
Pentachlorophenol	0.599	0.47	mg/Kg dry	2.30	ND	**26.1**	*	30-130	3.98	30	MS-09, V-05
Phenanthrene	1.04	0.23	mg/Kg dry	2.30	ND	45.2		40-140	5.43	30	
Phenol	1.00	0.47	mg/Kg dry	2.30	ND	43.5		30-130	5.23	30	
Pyrene	1.33	0.23	mg/Kg dry	2.30	0.0823	54.2		40-140	4.30	30	
Pyridine	0.573	0.47	mg/Kg dry	2.30	ND	**24.9**	*	40-140	4.43	30	MS-09
1,2,4,5-Tetrachlorobenzene	0.968	0.47	mg/Kg dry	2.30	ND	42.1		40-140	0.0950	30	
2,4,5-Trichlorophenol	1.02	0.47	mg/Kg dry	2.30	ND	44.5		30-130	2.49	30	
2,4,6-Trichlorophenol	0.924	0.47	mg/Kg dry	2.30	ND	40.2		30-130	3.52	30	
Surrogate: 2-Fluorophenol	*4.20*		mg/Kg dry	9.19		45.7		30-130			
Surrogate: Phenol-d6	*4.11*		mg/Kg dry	9.19		44.7		30-130			
Surrogate: Nitrobenzene-d5	*2.24*		mg/Kg dry	4.60		48.7		30-130			
Surrogate: 2-Fluorobiphenyl	*2.23*		mg/Kg dry	4.60		48.6		30-130			
Surrogate: 2,4,6-Tribromophenol	*3.50*		mg/Kg dry	9.19		38.0		30-130			
Surrogate: p-Terphenyl-d14	*3.03*		mg/Kg dry	4.60		65.9		30-130			

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QUALITY CONTROL

1,4-Dioxane by isotope dilution GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B374074 - SW-846 3546											
Blank (B374074-BLK1)				Prepared: 05/10/24 Analyzed: 05/13/24							
1,4-Dioxane	ND	0.048	mg/Kg wet								
Surrogate: 1,4-Dioxane-d8	*0.594*		mg/Kg wet	0.485		**123**	*	15-110			S-17
LCS (B374074-BS1)				Prepared: 05/10/24 Analyzed: 05/13/24							
1,4-Dioxane	0.456	0.049	mg/Kg wet	0.486		94.0		40-140			
Surrogate: 1,4-Dioxane-d8	*0.247*		mg/Kg wet	0.486		50.8		15-110			
LCS Dup (B374074-BSD1)				Prepared: 05/10/24 Analyzed: 05/13/24							
1,4-Dioxane	0.507	0.048	mg/Kg wet	0.484		105		40-140	10.6	30	
Surrogate: 1,4-Dioxane-d8	*0.195*		mg/Kg wet	0.484		40.4		15-110			
Matrix Spike (B374074-MS1)	**Source: 24E1437-06**			Prepared: 05/10/24 Analyzed: 05/13/24							
1,4-Dioxane	0.646	0.068	mg/Kg dry	0.683	ND	94.6		30-140			
Surrogate: 1,4-Dioxane-d8	*0.226*		mg/Kg dry	0.683		33.1		15-110			
Matrix Spike Dup (B374074-MSD1)	**Source: 24E1437-06**			Prepared: 05/10/24 Analyzed: 05/13/24							
1,4-Dioxane	0.658	0.068	mg/Kg dry	0.683	ND	96.3		30-140	1.76	30	
Surrogate: 1,4-Dioxane-d8	*0.246*		mg/Kg dry	0.683		36.0		15-110			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B374213 - Draft Method 1633										
Blank (B374213-BLK1)				Prepared: 05/15/24 Analyzed: 05/18/24						
Perfluorobutanoic acid (PFBA)	ND	0.78	µg/kg wet							
Perfluoropentanoic acid (PFPeA)	ND	0.39	µg/kg wet							
Perfluorohexanoic acid (PFHxA)	ND	0.19	µg/kg wet							
Perfluoroheptanoic acid (PFHpA)	ND	0.19	µg/kg wet							
Perfluorooctanoic acid (PFOA)	ND	0.19	µg/kg wet							
Perfluorononanoic acid (PFNA)	ND	0.19	µg/kg wet							
Perfluorodecanoic acid (PFDA)	ND	0.19	µg/kg wet							
Perfluoroundecanoic acid (PFUnA)	ND	0.19	µg/kg wet							
Perfluorododecanoic acid (PFDoA)	ND	0.19	µg/kg wet							
Perfluorotridecanoic acid (PFTrDA)	ND	0.19	µg/kg wet							
Perfluorotetradecanoic acid (PFTeDA)	ND	0.19	µg/kg wet							
Perfluorobutanesulfonic acid (PFBS)	ND	0.19	µg/kg wet							
Perfluoropentanesulfonic acid (PFPeS)	ND	0.19	µg/kg wet							
Perfluorohexanesulfonic acid (PFHxS)	ND	0.19	µg/kg wet							
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.19	µg/kg wet							
Perfluorooctanesulfonic acid (PFOS)	ND	0.19	µg/kg wet							
Perfluorononanesulfonic acid (PFNS)	ND	0.19	µg/kg wet							
Perfluorodecanesulfonic acid (PFDS)	ND	0.19	µg/kg wet							
Perfluorododecanesulfonic acid (PFDoS)	ND	0.19	µg/kg wet							
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.78	µg/kg wet							
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	ND	0.78	µg/kg wet							
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.78	µg/kg wet							
Perfluorooctanesulfonamide (PFOSA)	ND	0.19	µg/kg wet							
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.19	µg/kg wet							
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.19	µg/kg wet							
N-MeFOSAA (NMeFOSAA)	ND	0.19	µg/kg wet							V-05
N-EtFOSAA (NEtFOSAA)	ND	0.19	µg/kg wet							
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	1.9	µg/kg wet							
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	1.9	µg/kg wet							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.78	µg/kg wet							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.78	µg/kg wet							
9Cl-PF3ONS (F53B Minor)	ND	0.78	µg/kg wet							
11Cl-PF3OUdS (F53B Major)	ND	0.78	µg/kg wet							
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	1.9	µg/kg wet							
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	9.7	µg/kg wet							
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	9.7	µg/kg wet							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.39	µg/kg wet							
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.39	µg/kg wet							
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.39	µg/kg wet							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.39	µg/kg wet							
Surrogate: 13C4-PFBA	*8.81*		µg/kg wet	9.71		90.7	10-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B374213 - Draft Method 1633										
Blank (B374213-BLK1)				Prepared: 05/15/24 Analyzed: 05/18/24						
Surrogate: 13C5-PFPeA	*4.54*		µg/kg wet	4.86		93.5	35-150			
Surrogate: 13C5-PFHxA	*2.18*		µg/kg wet	2.43		89.7	55-150			
Surrogate: 13C4-PFHpA	*2.39*		µg/kg wet	2.43		98.6	55-150			
Surrogate: 13C8-PFOA	*2.25*		µg/kg wet	2.43		92.6	60-140			
Surrogate: 13C9-PFNA	*1.12*		µg/kg wet	1.21		92.2	55-140			
Surrogate: 13C6-PFDA	*1.10*		µg/kg wet	1.21		90.8	50-140			
Surrogate: 13C7-PFUnA	*1.15*		µg/kg wet	1.21		95.1	30-140			
Surrogate: 13C2-PFDoA	*1.08*		µg/kg wet	1.21		88.9	10-150			
Surrogate: 13C2-PFTeDA	*0.973*		µg/kg wet	1.21		80.1	10-130			
Surrogate: 13C3-PFBS	*2.32*		µg/kg wet	2.43		95.7	55-150			
Surrogate: 13C3-PFHxS	*2.16*		µg/kg wet	2.43		88.9	55-150			
Surrogate: 13C8-PFOS	*2.34*		µg/kg wet	2.43		96.4	45-140			
Surrogate: 13C2-4:2FTS	*5.44*		µg/kg wet	4.86		112	60-200			
Surrogate: 13C2-6:2FTS	*5.87*		µg/kg wet	4.86		121	60-200			
Surrogate: 13C2-8:2FTS	*5.77*		µg/kg wet	4.86		119	50-200			
Surrogate: 13C8-PFOSA	*2.05*		µg/kg wet	2.43		84.3	30-130			
Surrogate: D3-NMeFOSA	*1.53*		µg/kg wet	2.43		63.2	15-130			
Surrogate: D5-NEtFOSA	*1.53*		µg/kg wet	2.43		62.9	10-130			
Surrogate: D3-NMeFOSAA	*6.22*		µg/kg wet	4.86		128	45-200			
Surrogate: D5-NEtFOSAA	*5.03*		µg/kg wet	4.86		104	10-200			
Surrogate: D7-NMeFOSE	*17.2*		µg/kg wet	24.3		70.9	10-150			
Surrogate: D9-NEtFOSE	*16.9*		µg/kg wet	24.3		69.7	10-150			
Surrogate: 13C3-HFPO-DA	*9.13*		µg/kg wet	9.71		94.0	25-160			
LCS (B374213-BS1)				Prepared: 05/15/24 Analyzed: 05/18/24						
Perfluorobutanoic acid (PFBA)	8.02	0.77	µg/kg wet	9.29		86.3	58-148			
Perfluoropentanoic acid (PFPeA)	3.98	0.39	µg/kg wet	4.64		85.7	54-152			
Perfluorohexanoic acid (PFHxA)	1.96	0.19	µg/kg wet	2.32		84.5	55-152			
Perfluoroheptanoic acid (PFHpA)	1.94	0.19	µg/kg wet	2.32		83.6	54-154			
Perfluorooctanoic acid (PFOA)	1.96	0.19	µg/kg wet	2.32		84.6	52-161			
Perfluorononanoic acid (PFNA)	1.97	0.19	µg/kg wet	2.32		84.7	59-149			
Perfluorodecanoic acid (PFDA)	1.96	0.19	µg/kg wet	2.32		84.6	52-147			
Perfluoroundecanoic acid (PFUnA)	1.95	0.19	µg/kg wet	2.32		84.1	48-159			
Perfluorododecanoic acid (PFDoA)	2.00	0.19	µg/kg wet	2.32		86.2	64-142			
Perfluorotridecanoic acid (PFTrDA)	1.96	0.19	µg/kg wet	2.32		84.5	49-148			
Perfluorotetradecanoic acid (PFTeDA)	1.97	0.19	µg/kg wet	2.32		84.8	47-161			
Perfluorobutanesulfonic acid (PFBS)	1.79	0.19	µg/kg wet	2.06		86.6	62-144			
Perfluoropentanesulfonic acid (PFPeS)	1.94	0.19	µg/kg wet	2.18		89.0	59-151			
Perfluorohexanesulfonic acid (PFHxS)	1.79	0.19	µg/kg wet	2.12		84.4	57-146			
Perfluoroheptanesulfonic acid (PFHpS)	1.92	0.19	µg/kg wet	2.21		86.7	55-152			
Perfluorooctanesulfonic acid (PFOS)	1.70	0.19	µg/kg wet	2.15		79.2	58-149			
Perfluorononanesulfonic acid (PFNS)	1.93	0.19	µg/kg wet	2.23		86.5	52-148			
Perfluorodecanesulfonic acid (PFDS)	1.90	0.19	µg/kg wet	2.24		84.7	51-147			
Perfluorododecanesulfonic acid (PFDoS)	1.85	0.19	µg/kg wet	2.25		82.2	36-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	7.54	0.77	µg/kg wet	8.71		86.6	67-146			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	7.44	0.77	µg/kg wet	8.82		84.3	61-151			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	8.40	0.77	µg/kg wet	8.94		93.9	63-152			
Perfluorooctanesulfonamide (PFOSA)	1.97	0.19	µg/kg wet	2.32		84.7	61-148			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	2.07	0.19	µg/kg wet	2.32		89.3	63-145			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B374213 - Draft Method 1633										
LCS (B374213-BS1)				Prepared: 05/15/24 Analyzed: 05/18/24						
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	2.09	0.19	µg/kg wet	2.32		90.1	65-139			
N-MeFOSAA (NMeFOSAA)	1.87	0.19	µg/kg wet	2.32		80.7	58-144			V-05
N-EtFOSAA (NEtFOSAA)	1.95	0.19	µg/kg wet	2.32		84.0	59-146			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	23.1	1.9	µg/kg wet	23.2		99.4	71-136			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	23.6	1.9	µg/kg wet	23.2		102	69-137			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	7.94	0.77	µg/kg wet	9.29		85.4	63-144			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	7.70	0.77	µg/kg wet	8.77		87.8	68-146			
9Cl-PF3ONS (F53B Minor)	8.33	0.77	µg/kg wet	8.71		95.6	56-156			
11Cl-PF3OUdS (F53B Major)	8.26	0.77	µg/kg wet	8.77		94.2	46-156			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	16.7	1.9	µg/kg wet	23.2		71.9	62-129			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	92.5	9.7	µg/kg wet	116		79.7	63-134			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	92.3	9.7	µg/kg wet	116		79.5	50-138			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	3.86	0.39	µg/kg wet	4.13		93.4	56-151			
Perfluoro-3-methoxypropanoic acid (PFMPA)	3.86	0.39	µg/kg wet	4.64		83.1	51-145			
Perfluoro-4-methoxybutanoic acid (PFMBA)	3.99	0.39	µg/kg wet	4.64		85.9	55-148			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.47	0.39	µg/kg wet	4.64		96.3	48-161			
Surrogate: 13C4-PFBA	*8.69*		µg/kg wet	9.67		89.8	10-130			
Surrogate: 13C5-PFPeA	*4.43*		µg/kg wet	4.84		91.6	35-150			
Surrogate: 13C5-PFHxA	*2.18*		µg/kg wet	2.42		90.1	55-150			
Surrogate: 13C4-PFHpA	*2.39*		µg/kg wet	2.42		99.0	55-150			
Surrogate: 13C8-PFOA	*2.20*		µg/kg wet	2.42		91.0	60-140			
Surrogate: 13C9-PFNA	*1.11*		µg/kg wet	1.21		92.0	55-140			
Surrogate: 13C6-PFDA	*1.11*		µg/kg wet	1.21		91.4	50-140			
Surrogate: 13C7-PFUnA	*1.15*		µg/kg wet	1.21		94.9	30-140			
Surrogate: 13C2-PFDoA	*1.11*		µg/kg wet	1.21		91.8	10-150			
Surrogate: 13C2-PFTeDA	*1.05*		µg/kg wet	1.21		86.7	10-130			
Surrogate: 13C3-PFBS	*2.24*		µg/kg wet	2.42		92.6	55-150			
Surrogate: 13C3-PFHxS	*2.14*		µg/kg wet	2.42		88.6	55-150			
Surrogate: 13C8-PFOS	*2.27*		µg/kg wet	2.42		93.7	45-140			
Surrogate: 13C2-4:2FTS	*5.14*		µg/kg wet	4.84		106	60-200			
Surrogate: 13C2-6:2FTS	*5.48*		µg/kg wet	4.84		113	60-200			
Surrogate: 13C2-8:2FTS	*5.25*		µg/kg wet	4.84		109	50-200			
Surrogate: 13C8-PFOSA	*2.10*		µg/kg wet	2.42		87.0	30-130			
Surrogate: D3-NMeFOSA	*1.68*		µg/kg wet	2.42		69.6	15-130			
Surrogate: D5-NEtFOSA	*1.70*		µg/kg wet	2.42		70.5	10-130			
Surrogate: D3-NMeFOSAA	*6.36*		µg/kg wet	4.84		131	45-200			
Surrogate: D5-NEtFOSAA	*5.14*		µg/kg wet	4.84		106	10-200			
Surrogate: D7-NMeFOSE	*18.4*		µg/kg wet	24.2		76.0	10-150			
Surrogate: D9-NEtFOSE	*18.2*		µg/kg wet	24.2		75.3	10-150			
Surrogate: 13C3-HFPO-DA	*8.89*		µg/kg wet	9.67		91.9	25-160			
MRL Check (B374213-MRL1)				Prepared: 05/15/24 Analyzed: 05/18/24						
Perfluorobutanoic acid (PFBA)	0.704	0.80	µg/kg wet	0.799		88.1	44-157			J
Perfluoropentanoic acid (PFPeA)	0.303	0.40	µg/kg wet	0.399		75.8	57-148			J

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B374213 - Draft Method 1633										
MRL Check (B374213-MRL1)				Prepared: 05/15/24 Analyzed: 05/18/24						
Perfluorohexanoic acid (PFHxA)	0.155	0.20	µg/kg wet	0.200		77.5	62-149			J
Perfluoroheptanoic acid (PFHpA)	0.146	0.20	µg/kg wet	0.200		73.2	56-150			J
Perfluorooctanoic acid (PFOA)	0.167	0.20	µg/kg wet	0.200		83.5	57-161			J
Perfluorononanoic acid (PFNA)	0.147	0.20	µg/kg wet	0.200		73.5	53-157			J
Perfluorodecanoic acid (PFDA)	0.163	0.20	µg/kg wet	0.200		81.5	43-158			J
Perfluoroundecanoic acid (PFUnA)	0.146	0.20	µg/kg wet	0.200		73.1	50-155			J
Perfluorododecanoic acid (PFDoA)	0.160	0.20	µg/kg wet	0.200		80.0	60-141			J
Perfluorotridecanoic acid (PFTrDA)	0.158	0.20	µg/kg wet	0.200		79.0	52-140			J
Perfluorotetradecanoic acid (PFTeDA)	0.148	0.20	µg/kg wet	0.200		74.1	52-156			J
Perfluorobutanesulfonic acid (PFBS)	0.131	0.20	µg/kg wet	0.177		73.9	63-145			J
Perfluoropentanesulfonic acid (PFPeS)	0.158	0.20	µg/kg wet	0.188		84.3	58-144			J
Perfluorohexanesulfonic acid (PFHxS)	0.152	0.20	µg/kg wet	0.183		83.2	44-158			J
Perfluoroheptanesulfonic acid (PFHpS)	0.142	0.20	µg/kg wet	0.190		74.8	51-150			J
Perfluorooctanesulfonic acid (PFOS)	0.141	0.20	µg/kg wet	0.185		76.4	43-162			J
Perfluorononanesulfonic acid (PFNS)	0.144	0.20	µg/kg wet	0.192		74.7	46-151			J
Perfluorodecanesulfonic acid (PFDS)	0.151	0.20	µg/kg wet	0.193		78.1	50-144			J
Perfluorododecanesulfonic acid (PFDoS)	0.145	0.20	µg/kg wet	0.194		74.9	30-138			J
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	0.583	0.80	µg/kg wet	0.749		77.9	52-158			J
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	0.603	0.80	µg/kg wet	0.759		79.4	48-158			J
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	0.672	0.80	µg/kg wet	0.769		87.4	46-165			J
Perfluorooctanesulfonamide (PFOSA)	0.163	0.20	µg/kg wet	0.200		81.8	47-163			J
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	0.158	0.20	µg/kg wet	0.200		78.9	54-155			J
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	0.159	0.20	µg/kg wet	0.200		79.4	49-156			J
N-MeFOSAA (NMeFOSAA)	0.150	0.20	µg/kg wet	0.200		75.0	32-160			V-05, J
N-EtFOSAA (NEtFOSAA)	0.170	0.20	µg/kg wet	0.200		85.1	51-154			J
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	1.79	2.0	µg/kg wet	2.00		89.7	56-151			J
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	1.83	2.0	µg/kg wet	2.00		91.6	60-147			J
Hexafluoropropylene oxide dimer acid (HFPO-DA)	0.627	0.80	µg/kg wet	0.799		78.6	58-154			J
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.588	0.80	µg/kg wet	0.754		78.0	61-148			J
9Cl-PF3ONS (F53B Minor)	0.636	0.80	µg/kg wet	0.749		84.9	44-167			J
11Cl-PF3OUdS (F53B Major)	0.654	0.80	µg/kg wet	0.754		86.7	36-158			J
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	1.32	2.0	µg/kg wet	2.00		65.9	32-161			J
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	7.13	10	µg/kg wet	9.98		71.4	39-156			J
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	7.14	10	µg/kg wet	9.98		71.5	36-149			J
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	0.337	0.40	µg/kg wet	0.355		94.8	56-144			J
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.344	0.40	µg/kg wet	0.399		86.2	48-150			J
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.343	0.40	µg/kg wet	0.399		86.0	49-154			J
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.397	0.40	µg/kg wet	0.399		99.3	47-160			J
Surrogate: 13C4-PFBA	*8.88*		µg/kg wet	9.98		88.9	10-130			
Surrogate: 13C5-PFPeA	*4.60*		µg/kg wet	4.99		92.2	35-150			
Surrogate: 13C5-PFHxA	*2.24*		µg/kg wet	2.50		89.7	55-150			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B374213 - Draft Method 1633										
MRL Check (B374213-MRL1)				Prepared: 05/15/24 Analyzed: 05/18/24						
Surrogate: 13C4-PFHpA	*2.46*		µg/kg wet	2.50		98.4	55-150			
Surrogate: 13C8-PFOA	*2.23*		µg/kg wet	2.50		89.2	60-140			
Surrogate: 13C9-PFNA	*1.12*		µg/kg wet	1.25		89.8	55-140			
Surrogate: 13C6-PFDA	*1.10*		µg/kg wet	1.25		88.3	50-140			
Surrogate: 13C7-PFUnA	*1.16*		µg/kg wet	1.25		93.1	30-140			
Surrogate: 13C2-PFDoA	*1.07*		µg/kg wet	1.25		85.8	10-150			
Surrogate: 13C2-PFTeDA	*1.07*		µg/kg wet	1.25		86.0	10-130			
Surrogate: 13C3-PFBS	*2.34*		µg/kg wet	2.50		93.8	55-150			
Surrogate: 13C3-PFHxS	*2.18*		µg/kg wet	2.50		87.3	55-150			
Surrogate: 13C8-PFOS	*2.31*		µg/kg wet	2.50		92.4	45-140			
Surrogate: 13C2-4:2FTS	*5.31*		µg/kg wet	4.99		106	60-200			
Surrogate: 13C2-6:2FTS	*5.48*		µg/kg wet	4.99		110	60-200			
Surrogate: 13C2-8:2FTS	*5.33*		µg/kg wet	4.99		107	50-200			
Surrogate: 13C8-PFOSA	*2.16*		µg/kg wet	2.50		86.5	30-130			
Surrogate: D3-NMeFOSA	*1.66*		µg/kg wet	2.50		66.4	15-130			
Surrogate: D5-NEtFOSA	*1.71*		µg/kg wet	2.50		68.5	10-130			
Surrogate: D3-NMeFOSAA	*6.37*		µg/kg wet	4.99		128	45-200			
Surrogate: D5-NEtFOSAA	*5.20*		µg/kg wet	4.99		104	10-200			
Surrogate: D7-NMeFOSE	*18.5*		µg/kg wet	25.0		74.0	10-150			
Surrogate: D9-NEtFOSE	*18.1*		µg/kg wet	25.0		72.7	10-150			
Surrogate: 13C3-HFPO-DA	*9.37*		µg/kg wet	9.98		93.9	25-160			
Matrix Spike (B374213-MS1)	**Source: 24E1437-06**			Prepared: 05/15/24 Analyzed: 05/18/24						
Perfluorobutanoic acid (PFBA)	8.86	0.79	µg/kg dry	9.44	ND	93.8	58-148			
Perfluoropentanoic acid (PFPeA)	4.51	0.39	µg/kg dry	4.72	0.0499	94.6	54-152			
Perfluorohexanoic acid (PFHxA)	2.25	0.20	µg/kg dry	2.36	0.0526	93.0	55-152			
Perfluoroheptanoic acid (PFHpA)	2.22	0.20	µg/kg dry	2.36	0.0484	92.2	54-154			
Perfluorooctanoic acid (PFOA)	2.45	0.20	µg/kg dry	2.36	0.198	95.4	52-161			
Perfluorononanoic acid (PFNA)	2.27	0.20	µg/kg dry	2.36	0.0774	92.9	59-149			
Perfluorodecanoic acid (PFDA)	2.17	0.20	µg/kg dry	2.36	0.0432	90.3	52-147			
Perfluoroundecanoic acid (PFUnA)	2.25	0.20	µg/kg dry	2.36	0.0437	93.3	48-159			
Perfluorododecanoic acid (PFDoA)	2.30	0.20	µg/kg dry	2.36	ND	97.5	64-142			
Perfluorotridecanoic acid (PFTrDA)	2.22	0.20	µg/kg dry	2.36	ND	94.2	49-148			
Perfluorotetradecanoic acid (PFTeDA)	2.24	0.20	µg/kg dry	2.36	ND	94.7	47-161			
Perfluorobutanesulfonic acid (PFBS)	1.86	0.20	µg/kg dry	2.10	ND	88.8	62-144			
Perfluoropentanesulfonic acid (PFPeS)	2.17	0.20	µg/kg dry	2.22	ND	97.9	59-151			
Perfluorohexanesulfonic acid (PFHxS)	2.00	0.20	µg/kg dry	2.16	ND	92.6	57-146			
Perfluoroheptanesulfonic acid (PFHpS)	2.21	0.20	µg/kg dry	2.25	ND	98.4	55-152			
Perfluorooctanesulfonic acid (PFOS)	2.38	0.20	µg/kg dry	2.19	0.248	97.3	58-149			
Perfluorononanesulfonic acid (PFNS)	2.17	0.20	µg/kg dry	2.27	ND	95.3	52-148			
Perfluorodecanesulfonic acid (PFDS)	2.13	0.20	µg/kg dry	2.28	ND	93.3	51-147			
Perfluorododecanesulfonic acid (PFDoS)	1.79	0.20	µg/kg dry	2.29	ND	78.2	36-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	8.32	0.79	µg/kg dry	8.85	ND	94.0	67-146			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	8.29	0.79	µg/kg dry	8.97	ND	92.4	61-151			
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	9.22	0.79	µg/kg dry	9.09	ND	101	63-152			
Perfluorooctanesulfonamide (PFOSA)	2.20	0.20	µg/kg dry	2.36	ND	93.1	61-148			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	2.37	0.20	µg/kg dry	2.36	ND	100	63-145			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	2.26	0.20	µg/kg dry	2.36	ND	95.8	65-139			
N-MeFOSAA (NMeFOSAA)	1.98	0.20	µg/kg dry	2.36	ND	84.0	58-144			V-05

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B374213 - Draft Method 1633											
Matrix Spike (B374213-MS1)	**Source: 24E1437-06**			Prepared: 05/15/24 Analyzed: 05/18/24							
N-EtFOSAA (NEtFOSAA)	2.19	0.20	µg/kg dry	2.36	ND	92.8		59-146			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	25.5	2.0	µg/kg dry	23.6	ND	108		71-136			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	25.5	2.0	µg/kg dry	23.6	ND	108		69-137			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	9.18	0.79	µg/kg dry	9.44	ND	97.2		63-144			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	8.72	0.79	µg/kg dry	8.91	ND	97.8		68-146			
9Cl-PF3ONS (F53B Minor)	9.19	0.79	µg/kg dry	8.85	ND	104		56-156			
11Cl-PF3OUdS (F53B Major)	9.10	0.79	µg/kg dry	8.91	ND	102		46-156			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	15.2	2.0	µg/kg dry	23.6	ND	64.6		62-129			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	73.1	9.8	µg/kg dry	118	ND	**61.9**	*	63-134			MS-07A
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	86.6	9.8	µg/kg dry	118	ND	73.4		50-138			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	4.39	0.39	µg/kg dry	4.20	ND	104		56-151			
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.39	0.39	µg/kg dry	4.72	ND	93.0		51-145			
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.55	0.39	µg/kg dry	4.72	ND	96.3		55-148			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.97	0.39	µg/kg dry	4.72	ND	105		48-161			
Surrogate: 13C4-PFBA	*8.56*		µg/kg dry	9.84		87.0		10-130			
Surrogate: 13C5-PFPeA	*4.41*		µg/kg dry	4.92		89.7		35-150			
Surrogate: 13C5-PFHxA	*2.16*		µg/kg dry	2.46		88.0		55-150			
Surrogate: 13C4-PFHpA	*2.39*		µg/kg dry	2.46		97.0		55-150			
Surrogate: 13C8-PFOA	*2.11*		µg/kg dry	2.46		85.8		60-140			
Surrogate: 13C9-PFNA	*1.06*		µg/kg dry	1.23		86.0		55-140			
Surrogate: 13C6-PFDA	*1.11*		µg/kg dry	1.23		90.0		50-140			
Surrogate: 13C7-PFUnA	*1.11*		µg/kg dry	1.23		90.5		30-140			
Surrogate: 13C2-PFDoA	*1.04*		µg/kg dry	1.23		85.0		10-150			
Surrogate: 13C2-PFTeDA	*0.878*		µg/kg dry	1.23		71.4		10-130			
Surrogate: 13C3-PFBS	*2.29*		µg/kg dry	2.46		93.0		55-150			
Surrogate: 13C3-PFHxS	*2.07*		µg/kg dry	2.46		84.1		55-150			
Surrogate: 13C8-PFOS	*2.09*		µg/kg dry	2.46		85.2		45-140			
Surrogate: 13C2-4:2FTS	*5.54*		µg/kg dry	4.92		113		60-200			
Surrogate: 13C2-6:2FTS	*5.52*		µg/kg dry	4.92		112		60-200			
Surrogate: 13C2-8:2FTS	*5.61*		µg/kg dry	4.92		114		50-200			
Surrogate: 13C8-PFOSA	*1.79*		µg/kg dry	2.46		72.6		30-130			
Surrogate: D3-NMeFOSA	*0.903*		µg/kg dry	2.46		36.7		15-130			
Surrogate: D5-NEtFOSA	*0.781*		µg/kg dry	2.46		31.8		10-130			
Surrogate: D3-NMeFOSAA	*5.93*		µg/kg dry	4.92		120		45-200			
Surrogate: D5-NEtFOSAA	*5.08*		µg/kg dry	4.92		103		10-200			
Surrogate: D7-NMeFOSE	*12.7*		µg/kg dry	24.6		51.5		10-150			
Surrogate: D9-NEtFOSE	*11.3*		µg/kg dry	24.6		46.0		10-150			
Surrogate: 13C3-HFPO-DA	*8.75*		µg/kg dry	9.84		88.9		25-160			
Matrix Spike Dup (B374213-MSD1)	**Source: 24E1437-06**			Prepared: 05/15/24 Analyzed: 05/18/24							
Perfluorobutanoic acid (PFBA)	8.76	0.78	µg/kg dry	9.38	ND	93.4		58-148	1.19	20	
Perfluoropentanoic acid (PFPeA)	4.47	0.39	µg/kg dry	4.69	0.0499	94.3		54-152	0.950	20	
Perfluorohexanoic acid (PFHxA)	2.26	0.20	µg/kg dry	2.34	0.0526	94.3		55-152	0.614	25	
Perfluoroheptanoic acid (PFHpA)	2.21	0.20	µg/kg dry	2.34	0.0484	92.0		54-154	0.834	25	
Perfluorooctanoic acid (PFOA)	2.37	0.20	µg/kg dry	2.34	0.198	92.6		52-161	3.36	25	

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QUALITY CONTROL

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes
Batch B374213 - Draft Method 1633												
Matrix Spike Dup (B374213-MSD1)	**Source: 24E1437-06**			Prepared: 05/15/24 Analyzed: 05/18/24								
Perfluorononanoic acid (PFNA)	2.22	0.20	µg/kg dry	2.34	0.0774	91.4		59-149	2.30		25	
Perfluorodecanoic acid (PFDA)	2.11	0.20	µg/kg dry	2.34	0.0432	88.3		52-147	2.92		25	
Perfluoroundecanoic acid (PFUnA)	2.18	0.20	µg/kg dry	2.34	0.0437	91.3		48-159	2.85		30	
Perfluorododecanoic acid (PFDoA)	2.15	0.20	µg/kg dry	2.34	ND	91.6		64-142	6.91		25	
Perfluorotridecanoic acid (PFTrDA)	2.18	0.20	µg/kg dry	2.34	ND	93.0		49-148	1.98		25	
Perfluorotetradecanoic acid (PFTeDA)	2.21	0.20	µg/kg dry	2.34	ND	94.4		47-161	1.05		25	
Perfluorobutanesulfonic acid (PFBS)	1.91	0.20	µg/kg dry	2.08	ND	92.0		62-144	2.81		20	
Perfluoropentanesulfonic acid (PFPeS)	2.11	0.20	µg/kg dry	2.20	ND	95.8		59-151	2.90		25	
Perfluorohexanesulfonic acid (PFHxS)	1.92	0.20	µg/kg dry	2.14	ND	89.4		57-146	4.19		25	
Perfluoroheptanesulfonic acid (PFHpS)	2.16	0.20	µg/kg dry	2.23	ND	96.9		55-152	2.25		25	
Perfluorooctanesulfonic acid (PFOS)	2.22	0.20	µg/kg dry	2.17	0.248	90.6		58-149	7.01		20	
Perfluorononanesulfonic acid (PFNS)	2.04	0.20	µg/kg dry	2.26	ND	90.4		52-148	6.02		25	
Perfluorodecanesulfonic acid (PFDS)	2.06	0.20	µg/kg dry	2.26	ND	90.9		51-147	3.36		25	
Perfluorododecanesulfonic acid (PFDoS)	1.95	0.20	µg/kg dry	2.27	ND	85.9		36-145	8.62		30	
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	8.54	0.78	µg/kg dry	8.79	ND	97.1		67-146	2.55		25	
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	8.01	0.78	µg/kg dry	8.91	ND	90.0		61-151	3.40		30	
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	8.44	0.78	µg/kg dry	9.02	ND	93.6		63-152	8.82		30	
Perfluorooctanesulfonamide (PFOSA)	2.15	0.20	µg/kg dry	2.34	ND	91.5		61-148	2.47		20	
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	2.36	0.20	µg/kg dry	2.34	ND	101		63-145	0.257		25	
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	2.19	0.20	µg/kg dry	2.34	ND	93.6		65-139	3.11		25	
N-MeFOSAA (NMeFOSAA)	1.97	0.20	µg/kg dry	2.34	ND	84.2		58-144	0.574		25	V-05
N-EtFOSAA (NEtFOSAA)	2.14	0.20	µg/kg dry	2.34	ND	91.3		59-146	2.34		25	
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	25.4	2.0	µg/kg dry	23.4	ND	108		71-136	0.442		20	
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	24.9	2.0	µg/kg dry	23.4	ND	106		69-137	2.38		25	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	9.16	0.78	µg/kg dry	9.38	ND	97.7		63-144	0.194		25	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	8.51	0.78	µg/kg dry	8.85	ND	96.2		68-146	2.42		20	
9Cl-PF3ONS (F53B Minor)	9.35	0.78	µg/kg dry	8.79	ND	106		56-156	1.67		30	
11Cl-PF3OUdS (F53B Major)	8.98	0.78	µg/kg dry	8.85	ND	101		46-156	1.30		35	
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	14.8	2.0	µg/kg dry	23.4	ND	63.0		62-129	3.17		20	
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	59.7	9.8	µg/kg dry	117	ND	**51.0**	*	63-134	**20.1**	*	20	MS-07A, R-06
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	75.6	9.8	µg/kg dry	117	ND	64.5		50-138	13.6		25	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	4.40	0.39	µg/kg dry	4.17	ND	105		56-151	0.273		20	
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.42	0.39	µg/kg dry	4.69	ND	94.3		51-145	0.690		25	
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.53	0.39	µg/kg dry	4.69	ND	96.5		55-148	0.522		20	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.86	0.39	µg/kg dry	4.69	ND	104		48-161	2.10		35	
Surrogate: 13C4-PFBA	*8.03*		µg/kg dry	9.77		82.2		10-130				
Surrogate: 13C5-PFPeA	*4.12*		µg/kg dry	4.88		84.4		35-150				
Surrogate: 13C5-PFHxA	*2.01*		µg/kg dry	2.44		82.4		55-150				
Surrogate: 13C4-PFHpA	*2.20*		µg/kg dry	2.44		90.3		55-150				
Surrogate: 13C8-PFOA	*2.04*		µg/kg dry	2.44		83.4		60-140				
Surrogate: 13C9-PFNA	*1.01*		µg/kg dry	1.22		82.4		55-140				

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B374213 - Draft Method 1633										
Matrix Spike Dup (B374213-MSD1)	**Source: 24E1437-06**		Prepared: 05/15/24 Analyzed: 05/18/24							
Surrogate: 13C6-PFDA	*1.03*		µg/kg dry	1.22		84.6	50-140			
Surrogate: 13C7-PFUnA	*1.06*		µg/kg dry	1.22		86.7	30-140			
Surrogate: 13C2-PFDoA	*0.996*		µg/kg dry	1.22		81.6	10-150			
Surrogate: 13C2-PFTeDA	*0.893*		µg/kg dry	1.22		73.1	10-130			
Surrogate: 13C3-PFBS	*2.06*		µg/kg dry	2.44		84.2	55-150			
Surrogate: 13C3-PFHxS	*2.01*		µg/kg dry	2.44		82.2	55-150			
Surrogate: 13C8-PFOS	*1.97*		µg/kg dry	2.44		80.7	45-140			
Surrogate: 13C2-4:2FTS	*5.06*		µg/kg dry	4.88		104	60-200			
Surrogate: 13C2-6:2FTS	*5.23*		µg/kg dry	4.88		107	60-200			
Surrogate: 13C2-8:2FTS	*5.47*		µg/kg dry	4.88		112	50-200			
Surrogate: 13C8-PFOSA	*1.75*		µg/kg dry	2.44		71.6	30-130			
Surrogate: D3-NMeFOSA	*0.932*		µg/kg dry	2.44		38.2	15-130			
Surrogate: D5-NEtFOSA	*0.882*		µg/kg dry	2.44		36.1	10-130			
Surrogate: D3-NMeFOSAA	*5.69*		µg/kg dry	4.88		116	45-200			
Surrogate: D5-NEtFOSAA	*4.69*		µg/kg dry	4.88		96.1	10-200			
Surrogate: D7-NMeFOSE	*13.4*		µg/kg dry	24.4		54.9	10-150			
Surrogate: D9-NEtFOSE	*12.6*		µg/kg dry	24.4		51.6	10-150			
Surrogate: 13C3-HFPO-DA	*8.29*		µg/kg dry	9.77		84.8	25-160			
Batch B374779 - Draft Method 1633										
Blank (B374779-BLK1)			Prepared: 05/21/24 Analyzed: 05/28/24							
Perfluorobutanoic acid (PFBA)	ND	0.80	µg/kg wet							
Perfluoropentanoic acid (PFPeA)	ND	0.40	µg/kg wet							
Perfluorohexanoic acid (PFHxA)	ND	0.20	µg/kg wet							
Perfluoroheptanoic acid (PFHpA)	ND	0.20	µg/kg wet							
Perfluorooctanoic acid (PFOA)	ND	0.20	µg/kg wet							
Perfluorononanoic acid (PFNA)	ND	0.20	µg/kg wet							
Perfluorodecanoic acid (PFDA)	ND	0.20	µg/kg wet							
Perfluoroundecanoic acid (PFUnA)	ND	0.20	µg/kg wet							
Perfluorododecanoic acid (PFDoA)	ND	0.20	µg/kg wet							
Perfluorotridecanoic acid (PFTrDA)	ND	0.20	µg/kg wet							
Perfluorotetradecanoic acid (PFTeDA)	ND	0.20	µg/kg wet							
Perfluorobutanesulfonic acid (PFBS)	ND	0.20	µg/kg wet							
Perfluoropentanesulfonic acid (PFPeS)	ND	0.20	µg/kg wet							
Perfluorohexanesulfonic acid (PFHxS)	ND	0.20	µg/kg wet							
Perfluoroheptanesulfonic acid (PFHpS)	ND	0.20	µg/kg wet							
Perfluorooctanesulfonic acid (PFOS)	ND	0.20	µg/kg wet							
Perfluorononanesulfonic acid (PFNS)	ND	0.20	µg/kg wet							
Perfluorodecanesulfonic acid (PFDS)	ND	0.20	µg/kg wet							
Perfluorododecanesulfonic acid (PFDoS)	ND	0.20	µg/kg wet							
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	ND	0.80	µg/kg wet							
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	2.0	0.80	µg/kg wet							B-05
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	ND	0.80	µg/kg wet							
Perfluorooctanesulfonamide (PFOSA)	ND	0.20	µg/kg wet							
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	ND	0.20	µg/kg wet							
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	ND	0.20	µg/kg wet							
N-MeFOSAA (NMeFOSAA)	ND	0.20	µg/kg wet							
N-EtFOSAA (NEtFOSAA)	ND	0.20	µg/kg wet							

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B374779 - Draft Method 1633										
Blank (B374779-BLK1)				Prepared: 05/21/24 Analyzed: 05/28/24						
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	ND	2.0	µg/kg wet							
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	ND	2.0	µg/kg wet							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	0.80	µg/kg wet							
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.80	µg/kg wet							
9Cl-PF3ONS (F53B Minor)	ND	0.80	µg/kg wet							
11Cl-PF3OUdS (F53B Major)	ND	0.80	µg/kg wet							
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	ND	2.0	µg/kg wet							
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	ND	10	µg/kg wet							
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	ND	10	µg/kg wet							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.40	µg/kg wet							
Perfluoro-3-methoxypropanoic acid (PFMPA)	ND	0.40	µg/kg wet							
Perfluoro-4-methoxybutanoic acid (PFMBA)	ND	0.40	µg/kg wet							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.40	µg/kg wet							
Surrogate: 13C4-PFBA	*7.60*		µg/kg wet	9.95		76.4	10-130			
Surrogate: 13C5-PFPeA	*3.62*		µg/kg wet	4.98		72.8	35-150			
Surrogate: 13C5-PFHxA	*1.87*		µg/kg wet	2.49		75.1	55-150			
Surrogate: 13C4-PFHpA	*1.85*		µg/kg wet	2.49		74.4	55-150			
Surrogate: 13C8-PFOA	*1.95*		µg/kg wet	2.49		78.6	60-140			
Surrogate: 13C9-PFNA	*0.956*		µg/kg wet	1.24		76.8	55-140			
Surrogate: 13C6-PFDA	*0.971*		µg/kg wet	1.24		78.1	50-140			
Surrogate: 13C7-PFUnA	*0.962*		µg/kg wet	1.24		77.3	30-140			
Surrogate: 13C2-PFDoA	*0.900*		µg/kg wet	1.24		72.4	10-150			
Surrogate: 13C2-PFTeDA	*0.899*		µg/kg wet	1.24		72.3	10-130			
Surrogate: 13C3-PFBS	*1.90*		µg/kg wet	2.49		76.5	55-150			
Surrogate: 13C3-PFHxS	*1.92*		µg/kg wet	2.49		77.2	55-150			
Surrogate: 13C8-PFOS	*1.88*		µg/kg wet	2.49		75.7	45-140			
Surrogate: 13C2-4:2FTS	*3.66*		µg/kg wet	4.98		73.5	60-200			
Surrogate: 13C2-6:2FTS	*3.63*		µg/kg wet	4.98		73.0	60-200			
Surrogate: 13C2-8:2FTS	*3.63*		µg/kg wet	4.98		73.0	50-200			
Surrogate: 13C8-PFOSA	*1.73*		µg/kg wet	2.49		69.7	30-130			
Surrogate: D3-NMeFOSA	*1.35*		µg/kg wet	2.49		54.2	15-130			
Surrogate: D5-NEtFOSA	*1.37*		µg/kg wet	2.49		54.9	10-130			
Surrogate: D3-NMeFOSAA	*3.76*		µg/kg wet	4.98		75.5	45-200			
Surrogate: D5-NEtFOSAA	*3.91*		µg/kg wet	4.98		78.7	10-200			
Surrogate: D7-NMeFOSE	*17.2*		µg/kg wet	24.9		69.3	10-150			
Surrogate: D9-NEtFOSE	*20.8*		µg/kg wet	24.9		83.7	10-150			
Surrogate: 13C3-HFPO-DA	*7.49*		µg/kg wet	9.95		75.3	25-160			
LCS (B374779-BS1)				Prepared: 05/21/24 Analyzed: 05/28/24						
Perfluorobutanoic acid (PFBA)	8.14	0.80	µg/kg wet	9.58		85.0	58-148			
Perfluoropentanoic acid (PFPeA)	4.09	0.40	µg/kg wet	4.79		85.4	54-152			
Perfluorohexanoic acid (PFHxA)	2.04	0.20	µg/kg wet	2.39		85.0	55-152			
Perfluoroheptanoic acid (PFHpA)	2.04	0.20	µg/kg wet	2.39		85.4	54-154			
Perfluorooctanoic acid (PFOA)	2.00	0.20	µg/kg wet	2.39		83.3	52-161			
Perfluorononanoic acid (PFNA)	2.05	0.20	µg/kg wet	2.39		85.5	59-149			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B374779 - Draft Method 1633										
LCS (B374779-BS1)				Prepared: 05/21/24 Analyzed: 05/28/24						
Perfluorodecanoic acid (PFDA)	2.01	0.20	µg/kg wet	2.39		83.9	52-147			
Perfluoroundecanoic acid (PFUnA)	2.04	0.20	µg/kg wet	2.39		85.3	48-159			
Perfluorododecanoic acid (PFDoA)	2.07	0.20	µg/kg wet	2.39		86.3	64-142			
Perfluorotridecanoic acid (PFTrDA)	1.99	0.20	µg/kg wet	2.39		82.9	49-148			
Perfluorotetradecanoic acid (PFTeDA)	2.08	0.20	µg/kg wet	2.39		86.9	47-161			
Perfluorobutanesulfonic acid (PFBS)	1.82	0.20	µg/kg wet	2.12		85.8	62-144			
Perfluoropentanesulfonic acid (PFPeS)	1.96	0.20	µg/kg wet	2.25		86.9	59-151			
Perfluorohexanesulfonic acid (PFHxS)	1.80	0.20	µg/kg wet	2.19		82.3	57-146			
Perfluoroheptanesulfonic acid (PFHpS)	1.95	0.20	µg/kg wet	2.28		85.6	55-152			
Perfluorooctanesulfonic acid (PFOS)	1.78	0.20	µg/kg wet	2.22		80.3	58-149			
Perfluorononanesulfonic acid (PFNS)	2.00	0.20	µg/kg wet	2.30		86.8	52-148			
Perfluorodecanesulfonic acid (PFDS)	1.94	0.20	µg/kg wet	2.31		84.0	51-147			
Perfluorododecanesulfonic acid (PFDoS)	1.93	0.20	µg/kg wet	2.32		83.0	36-145			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	7.77	0.80	µg/kg wet	8.98		86.6	67-146			
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	8.52	0.80	µg/kg wet	9.10		93.7	61-151			B
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	8.06	0.80	µg/kg wet	9.22		87.4	63-152			
Perfluorooctanesulfonamide (PFOSA)	2.03	0.20	µg/kg wet	2.39		84.8	61-148			
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	2.14	0.20	µg/kg wet	2.39		89.3	63-145			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	2.11	0.20	µg/kg wet	2.39		88.3	65-139			
N-MeFOSAA (NMeFOSAA)	2.14	0.20	µg/kg wet	2.39		89.5	58-144			
N-EtFOSAA (NEtFOSAA)	1.88	0.20	µg/kg wet	2.39		78.5	59-146			
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	21.6	2.0	µg/kg wet	23.9		90.2	71-136			
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	22.2	2.0	µg/kg wet	23.9		92.8	69-137			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	8.43	0.80	µg/kg wet	9.58		88.0	63-144			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	7.91	0.80	µg/kg wet	9.04		87.5	68-146			
9Cl-PF3ONS (F53B Minor)	8.43	0.80	µg/kg wet	8.98		93.9	56-156			
11Cl-PF3OUdS (F53B Major)	8.34	0.80	µg/kg wet	9.04		92.3	46-156			
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	15.7	2.0	µg/kg wet	23.9		65.7	62-129			
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	89.8	10	µg/kg wet	120		75.0	63-134			
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	89.7	10	µg/kg wet	120		75.0	50-138			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	3.95	0.40	µg/kg wet	4.26		92.6	56-151			
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.26	0.40	µg/kg wet	4.79		89.0	51-145			
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.16	0.40	µg/kg wet	4.79		86.8	55-148			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.06	0.40	µg/kg wet	4.79		84.8	48-161			
Surrogate: 13C4-PFBA	*8.13*		µg/kg wet	9.98		81.5	10-130			
Surrogate: 13C5-PFPeA	*4.06*		µg/kg wet	4.99		81.4	35-150			
Surrogate: 13C5-PFHxA	*2.09*		µg/kg wet	2.49		83.8	55-150			
Surrogate: 13C4-PFHpA	*2.08*		µg/kg wet	2.49		83.3	55-150			
Surrogate: 13C8-PFOA	*2.14*		µg/kg wet	2.49		85.8	60-140			
Surrogate: 13C9-PFNA	*1.02*		µg/kg wet	1.25		81.8	55-140			
Surrogate: 13C6-PFDA	*1.06*		µg/kg wet	1.25		84.9	50-140			

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B374779 - Draft Method 1633										
LCS (B374779-BS1)				Prepared: 05/21/24 Analyzed: 05/28/24						
Surrogate: 13C7-PFUnA	*1.02*		µg/kg wet	1.25		81.7	30-140			
Surrogate: 13C2-PFDoA	*1.03*		µg/kg wet	1.25		83.0	10-150			
Surrogate: 13C2-PFTeDA	*0.984*		µg/kg wet	1.25		78.9	10-130			
Surrogate: 13C3-PFBS	*1.99*		µg/kg wet	2.49		79.7	55-150			
Surrogate: 13C3-PFHxS	*2.04*		µg/kg wet	2.49		81.6	55-150			
Surrogate: 13C8-PFOS	*2.08*		µg/kg wet	2.49		83.4	45-140			
Surrogate: 13C2-4:2FTS	*3.83*		µg/kg wet	4.99		76.7	60-200			
Surrogate: 13C2-6:2FTS	*3.98*		µg/kg wet	4.99		79.7	60-200			
Surrogate: 13C2-8:2FTS	*3.90*		µg/kg wet	4.99		78.2	50-200			
Surrogate: 13C8-PFOSA	*2.00*		µg/kg wet	2.49		80.1	30-130			
Surrogate: D3-NMeFOSA	*1.48*		µg/kg wet	2.49		59.4	15-130			
Surrogate: D5-NEtFOSA	*1.41*		µg/kg wet	2.49		56.6	10-130			
Surrogate: D3-NMeFOSAA	*4.09*		µg/kg wet	4.99		82.0	45-200			
Surrogate: D5-NEtFOSAA	*4.29*		µg/kg wet	4.99		86.0	10-200			
Surrogate: D7-NMeFOSE	*17.9*		µg/kg wet	24.9		71.6	10-150			
Surrogate: D9-NEtFOSE	*18.3*		µg/kg wet	24.9		73.3	10-150			
Surrogate: 13C3-HFPO-DA	*8.07*		µg/kg wet	9.98		80.9	25-160			
MRL Check (B374779-MRL1)				Prepared: 05/21/24 Analyzed: 05/28/24						
Perfluorobutanoic acid (PFBA)	0.556	0.80	µg/kg wet	0.797		69.8	44-157			J
Perfluoropentanoic acid (PFPeA)	0.274	0.40	µg/kg wet	0.399		68.8	57-148			J
Perfluorohexanoic acid (PFHxA)	0.144	0.20	µg/kg wet	0.199		72.3	62-149			J
Perfluoroheptanoic acid (PFHpA)	0.136	0.20	µg/kg wet	0.199		68.4	56-150			J
Perfluorooctanoic acid (PFOA)	0.172	0.20	µg/kg wet	0.199		86.2	57-161			J
Perfluorononanoic acid (PFNA)	0.146	0.20	µg/kg wet	0.199		73.4	53-157			J
Perfluorodecanoic acid (PFDA)	0.148	0.20	µg/kg wet	0.199		74.0	43-158			J
Perfluoroundecanoic acid (PFUnA)	0.144	0.20	µg/kg wet	0.199		72.2	50-155			J
Perfluorododecanoic acid (PFDoA)	0.155	0.20	µg/kg wet	0.199		77.9	60-141			J
Perfluorotridecanoic acid (PFTrDA)	0.137	0.20	µg/kg wet	0.199		68.8	52-140			J
Perfluorotetradecanoic acid (PFTeDA)	0.147	0.20	µg/kg wet	0.199		73.8	52-156			J
Perfluorobutanesulfonic acid (PFBS)	0.139	0.20	µg/kg wet	0.177		78.7	63-145			J
Perfluoropentanesulfonic acid (PFPeS)	0.147	0.20	µg/kg wet	0.187		78.4	58-144			J
Perfluorohexanesulfonic acid (PFHxS)	0.141	0.20	µg/kg wet	0.182		77.1	44-158			J
Perfluoroheptanesulfonic acid (PFHpS)	0.147	0.20	µg/kg wet	0.190		77.2	51-150			J
Perfluorooctanesulfonic acid (PFOS)	0.149	0.20	µg/kg wet	0.185		80.4	43-162			J
Perfluorononanesulfonic acid (PFNS)	0.146	0.20	µg/kg wet	0.192		76.1	46-151			J
Perfluorodecanesulfonic acid (PFDS)	0.136	0.20	µg/kg wet	0.192		70.9	50-144			J
Perfluorododecanesulfonic acid (PFDoS)	0.147	0.20	µg/kg wet	0.193		76.3	30-138			J
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	0.559	0.80	µg/kg wet	0.747		74.8	52-158			J
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	0.770	0.80	µg/kg wet	0.757		102	48-158			B, J
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	0.531	0.80	µg/kg wet	0.767		69.2	46-165			J
Perfluorooctanesulfonamide (PFOSA)	0.145	0.20	µg/kg wet	0.199		72.6	47-163			J
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	0.146	0.20	µg/kg wet	0.199		73.4	54-155			J
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	0.149	0.20	µg/kg wet	0.199		74.6	49-156			J
N-MeFOSAA (NMeFOSAA)	0.147	0.20	µg/kg wet	0.199		73.8	32-160			J
N-EtFOSAA (NEtFOSAA)	0.129	0.20	µg/kg wet	0.199		64.9	51-154			J
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	1.51	2.0	µg/kg wet	1.99		75.5	56-151			J
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	1.52	2.0	µg/kg wet	1.99		76.4	60-147			J

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QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B374779 - Draft Method 1633										
MRL Check (B374779-MRL1)				Prepared: 05/21/24 Analyzed: 05/28/24						
Hexafluoropropylene oxide dimer acid (HFPO-DA)	0.608	0.80	µg/kg wet	0.797		76.2	58-154			J
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.547	0.80	µg/kg wet	0.752		72.8	61-148			J
9Cl-PF3ONS (F53B Minor)	0.579	0.80	µg/kg wet	0.747		77.4	44-167			J
11Cl-PF3OUdS (F53B Major)	0.580	0.80	µg/kg wet	0.752		77.1	36-158			J
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	1.28	2.0	µg/kg wet	1.99		64.3	32-161			J
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	7.04	10	µg/kg wet	9.97		70.6	39-156			J
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	6.56	10	µg/kg wet	9.97		65.9	36-149			J
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	0.275	0.40	µg/kg wet	0.355		77.5	56-144			J
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.319	0.40	µg/kg wet	0.399		80.0	48-150			J
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.302	0.40	µg/kg wet	0.399		75.7	49-154			J
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.294	0.40	µg/kg wet	0.399		73.6	47-160			J
Surrogate: 13C4-PFBA	*8.45*		µg/kg wet	9.97		84.8	10-130			
Surrogate: 13C5-PFPeA	*4.08*		µg/kg wet	4.98		81.9	35-150			
Surrogate: 13C5-PFHxA	*2.05*		µg/kg wet	2.49		82.3	55-150			
Surrogate: 13C4-PFHpA	*2.07*		µg/kg wet	2.49		83.0	55-150			
Surrogate: 13C8-PFOA	*2.11*		µg/kg wet	2.49		84.5	60-140			
Surrogate: 13C9-PFNA	*1.02*		µg/kg wet	1.25		82.1	55-140			
Surrogate: 13C6-PFDA	*1.07*		µg/kg wet	1.25		85.8	50-140			
Surrogate: 13C7-PFUnA	*1.06*		µg/kg wet	1.25		85.1	30-140			
Surrogate: 13C2-PFDoA	*0.993*		µg/kg wet	1.25		79.7	10-150			
Surrogate: 13C2-PFTeDA	*0.974*		µg/kg wet	1.25		78.1	10-130			
Surrogate: 13C3-PFBS	*2.02*		µg/kg wet	2.49		81.1	55-150			
Surrogate: 13C3-PFHxS	*2.03*		µg/kg wet	2.49		81.4	55-150			
Surrogate: 13C8-PFOS	*2.03*		µg/kg wet	2.49		81.6	45-140			
Surrogate: 13C2-4:2FTS	*3.80*		µg/kg wet	4.98		76.3	60-200			
Surrogate: 13C2-6:2FTS	*3.81*		µg/kg wet	4.98		76.6	60-200			
Surrogate: 13C2-8:2FTS	*3.80*		µg/kg wet	4.98		76.2	50-200			
Surrogate: 13C8-PFOSA	*1.90*		µg/kg wet	2.49		76.2	30-130			
Surrogate: D3-NMeFOSA	*1.49*		µg/kg wet	2.49		59.7	15-130			
Surrogate: D5-NEtFOSA	*1.49*		µg/kg wet	2.49		59.8	10-130			
Surrogate: D3-NMeFOSAA	*4.23*		µg/kg wet	4.98		84.8	45-200			
Surrogate: D5-NEtFOSAA	*4.27*		µg/kg wet	4.98		85.6	10-200			
Surrogate: D7-NMeFOSE	*18.0*		µg/kg wet	24.9		72.3	10-150			
Surrogate: D9-NEtFOSE	*19.7*		µg/kg wet	24.9		79.2	10-150			
Surrogate: 13C3-HFPO-DA	*8.24*		µg/kg wet	9.97		82.7	25-160			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B374053 - SW-846 3546										
Blank (B374053-BLK1)				Prepared: 05/10/24 Analyzed: 05/14/24						
alpha-Chlordane	ND	0.0050	mg/Kg wet							
alpha-Chlordane [2C]	ND	0.0050	mg/Kg wet							
gamma-Chlordane	ND	0.0050	mg/Kg wet							
gamma-Chlordane [2C]	ND	0.0050	mg/Kg wet							
Aldrin	ND	0.0050	mg/Kg wet							
Aldrin [2C]	ND	0.0050	mg/Kg wet							
alpha-BHC	ND	0.0050	mg/Kg wet							
alpha-BHC [2C]	ND	0.0050	mg/Kg wet							
beta-BHC	ND	0.0050	mg/Kg wet							
beta-BHC [2C]	ND	0.0050	mg/Kg wet							
delta-BHC	ND	0.0050	mg/Kg wet							
delta-BHC [2C]	ND	0.0050	mg/Kg wet							
gamma-BHC (Lindane)	ND	0.0020	mg/Kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0020	mg/Kg wet							
4,4'-DDD	ND	0.0040	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDT	ND	0.0040	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0040	mg/Kg wet							
Dieldrin	ND	0.0040	mg/Kg wet							
Dieldrin [2C]	ND	0.0040	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate [2C]	ND	0.0080	mg/Kg wet							
Endrin	ND	0.0080	mg/Kg wet							
Endrin [2C]	ND	0.0080	mg/Kg wet							
Endrin Aldehyde	ND	0.0080	mg/Kg wet							
Endrin Aldehyde [2C]	ND	0.0080	mg/Kg wet							
Endrin Ketone	ND	0.0080	mg/Kg wet							
Endrin Ketone [2C]	ND	0.0080	mg/Kg wet							
Heptachlor	ND	0.0050	mg/Kg wet							
Heptachlor [2C]	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0050	mg/Kg wet							
Methoxychlor	ND	0.050	mg/Kg wet							R-05
Methoxychlor [2C]	ND	0.050	mg/Kg wet							
Toxaphene	ND	0.10	mg/Kg wet							
Toxaphene [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.132*		mg/Kg wet	0.199		66.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.138*		mg/Kg wet	0.199		69.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.119*		mg/Kg wet	0.199		59.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.123*		mg/Kg wet	0.199		61.8	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B374053 - SW-846 3546										
LCS (B374053-BS1)				Prepared: 05/10/24 Analyzed: 05/14/24						
alpha-Chlordane	0.088	0.0050	mg/Kg wet	0.0995		88.7	40-140			
alpha-Chlordane [2C]	0.093	0.0050	mg/Kg wet	0.0995		93.5	40-140			
gamma-Chlordane	0.084	0.0050	mg/Kg wet	0.0995		84.9	40-140			
gamma-Chlordane [2C]	0.093	0.0050	mg/Kg wet	0.0995		93.5	40-140			
Aldrin	0.086	0.0050	mg/Kg wet	0.0995		86.7	40-140			
Aldrin [2C]	0.090	0.0050	mg/Kg wet	0.0995		90.9	40-140			
alpha-BHC	0.085	0.0050	mg/Kg wet	0.0995		85.4	40-140			
alpha-BHC [2C]	0.086	0.0050	mg/Kg wet	0.0995		86.3	40-140			
beta-BHC	0.081	0.0050	mg/Kg wet	0.0995		81.5	40-140			
beta-BHC [2C]	0.084	0.0050	mg/Kg wet	0.0995		83.9	40-140			
delta-BHC	0.085	0.0050	mg/Kg wet	0.0995		85.2	40-140			
delta-BHC [2C]	0.086	0.0050	mg/Kg wet	0.0995		86.7	40-140			
gamma-BHC (Lindane)	0.082	0.0020	mg/Kg wet	0.0995		82.8	40-140			
gamma-BHC (Lindane) [2C]	0.087	0.0020	mg/Kg wet	0.0995		87.4	40-140			
4,4'-DDD	0.093	0.0040	mg/Kg wet	0.0995		93.7	40-140			
4,4'-DDD [2C]	0.099	0.0040	mg/Kg wet	0.0995		99.1	40-140			V-06
4,4'-DDE	0.092	0.0040	mg/Kg wet	0.0995		92.5	40-140			
4,4'-DDE [2C]	0.096	0.0040	mg/Kg wet	0.0995		96.4	40-140			
4,4'-DDT	0.091	0.0040	mg/Kg wet	0.0995		91.6	40-140			
4,4'-DDT [2C]	0.092	0.0040	mg/Kg wet	0.0995		92.1	40-140			
Dieldrin	0.090	0.0040	mg/Kg wet	0.0995		90.6	40-140			
Dieldrin [2C]	0.095	0.0040	mg/Kg wet	0.0995		95.7	40-140			
Endosulfan I	0.090	0.0050	mg/Kg wet	0.0995		90.0	40-140			
Endosulfan I [2C]	0.094	0.0050	mg/Kg wet	0.0995		94.9	40-140			
Endosulfan II	0.088	0.0080	mg/Kg wet	0.0995		88.0	40-140			
Endosulfan II [2C]	0.095	0.0080	mg/Kg wet	0.0995		95.5	40-140			
Endosulfan Sulfate	0.070	0.0080	mg/Kg wet	0.0995		70.7	40-140			
Endosulfan Sulfate [2C]	0.089	0.0080	mg/Kg wet	0.0995		89.2	40-140			
Endrin	0.095	0.0080	mg/Kg wet	0.0995		95.4	40-140			
Endrin [2C]	0.098	0.0080	mg/Kg wet	0.0995		99.0	40-140			
Endrin Aldehyde	0.074	0.0080	mg/Kg wet	0.0995		74.4	40-140			
Endrin Aldehyde [2C]	0.083	0.0080	mg/Kg wet	0.0995		83.7	40-140			
Endrin Ketone	0.086	0.0080	mg/Kg wet	0.0995		86.6	40-140			
Endrin Ketone [2C]	0.088	0.0080	mg/Kg wet	0.0995		88.8	40-140			
Heptachlor	0.088	0.0050	mg/Kg wet	0.0995		88.9	40-140			
Heptachlor [2C]	0.091	0.0050	mg/Kg wet	0.0995		91.3	40-140			
Heptachlor Epoxide	0.087	0.0050	mg/Kg wet	0.0995		87.7	40-140			
Heptachlor Epoxide [2C]	0.091	0.0050	mg/Kg wet	0.0995		91.2	40-140			
Methoxychlor	0.074	0.050	mg/Kg wet	0.0995		74.3	40-140			R-05
Methoxychlor [2C]	0.089	0.050	mg/Kg wet	0.0995		89.5	40-140			
Surrogate: Decachlorobiphenyl	*0.175*		mg/Kg wet	0.199		88.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.188*		mg/Kg wet	0.199		94.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.150*		mg/Kg wet	0.199		75.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.155*		mg/Kg wet	0.199		77.7	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD		RPD Limit	Notes
Batch B374053 - SW-846 3546											
LCS Dup (B374053-BSD1)				Prepared: 05/10/24 Analyzed: 05/14/24							
alpha-Chlordane	0.11	0.0050	mg/Kg wet	0.0997		106	40-140	18.2		30	
alpha-Chlordane [2C]	0.11	0.0050	mg/Kg wet	0.0997		112	40-140	18.6		30	
gamma-Chlordane	0.10	0.0050	mg/Kg wet	0.0997		100	40-140	16.6		30	
gamma-Chlordane [2C]	0.11	0.0050	mg/Kg wet	0.0997		112	40-140	18.2		30	
Aldrin	0.10	0.0050	mg/Kg wet	0.0997		104	40-140	18.0		30	
Aldrin [2C]	0.11	0.0050	mg/Kg wet	0.0997		109	40-140	18.3		30	
alpha-BHC	0.10	0.0050	mg/Kg wet	0.0997		104	40-140	20.0		30	
alpha-BHC [2C]	0.11	0.0050	mg/Kg wet	0.0997		106	40-140	20.3		30	
beta-BHC	0.094	0.0050	mg/Kg wet	0.0997		94.5	40-140	15.0		30	
beta-BHC [2C]	0.099	0.0050	mg/Kg wet	0.0997		99.4	40-140	17.1		30	
delta-BHC	0.10	0.0050	mg/Kg wet	0.0997		102	40-140	17.9		30	
delta-BHC [2C]	0.10	0.0050	mg/Kg wet	0.0997		103	40-140	17.6		30	
gamma-BHC (Lindane)	0.099	0.0020	mg/Kg wet	0.0997		99.8	40-140	18.7		30	
gamma-BHC (Lindane) [2C]	0.10	0.0020	mg/Kg wet	0.0997		105	40-140	18.8		30	
4,4'-DDD	0.12	0.0040	mg/Kg wet	0.0997		116	40-140	21.7		30	
4,4'-DDD [2C]	0.12	0.0040	mg/Kg wet	0.0997		122	40-140	21.3		30	V-06
4,4'-DDE	0.11	0.0040	mg/Kg wet	0.0997		113	40-140	20.4		30	
4,4'-DDE [2C]	0.12	0.0040	mg/Kg wet	0.0997		118	40-140	20.4		30	
4,4'-DDT	0.12	0.0040	mg/Kg wet	0.0997		117	40-140	24.3		30	
4,4'-DDT [2C]	0.12	0.0040	mg/Kg wet	0.0997		119	40-140	26.0		30	
Dieldrin	0.11	0.0040	mg/Kg wet	0.0997		110	40-140	19.1		30	
Dieldrin [2C]	0.12	0.0040	mg/Kg wet	0.0997		117	40-140	20.0		30	
Endosulfan I	0.11	0.0050	mg/Kg wet	0.0997		108	40-140	18.3		30	
Endosulfan I [2C]	0.11	0.0050	mg/Kg wet	0.0997		114	40-140	18.3		30	
Endosulfan II	0.11	0.0080	mg/Kg wet	0.0997		108	40-140	20.4		30	
Endosulfan II [2C]	0.12	0.0080	mg/Kg wet	0.0997		116	40-140	19.9		30	
Endosulfan Sulfate	0.089	0.0080	mg/Kg wet	0.0997		89.1	40-140	23.3		30	
Endosulfan Sulfate [2C]	0.11	0.0080	mg/Kg wet	0.0997		112	40-140	22.4		30	
Endrin	0.12	0.0080	mg/Kg wet	0.0997		119	40-140	21.9		30	
Endrin [2C]	0.12	0.0080	mg/Kg wet	0.0997		123	40-140	21.5		30	
Endrin Aldehyde	0.085	0.0080	mg/Kg wet	0.0997		85.1	40-140	13.6		30	
Endrin Aldehyde [2C]	0.095	0.0080	mg/Kg wet	0.0997		95.1	40-140	13.0		30	
Endrin Ketone	0.11	0.0080	mg/Kg wet	0.0997		106	40-140	20.7		30	
Endrin Ketone [2C]	0.11	0.0080	mg/Kg wet	0.0997		110	40-140	21.2		30	
Heptachlor	0.11	0.0050	mg/Kg wet	0.0997		106	40-140	17.8		30	
Heptachlor [2C]	0.11	0.0050	mg/Kg wet	0.0997		109	40-140	18.0		30	
Heptachlor Epoxide	0.11	0.0050	mg/Kg wet	0.0997		106	40-140	19.1		30	
Heptachlor Epoxide [2C]	0.11	0.0050	mg/Kg wet	0.0997		110	40-140	19.1		30	
Methoxychlor	0.10	0.050	mg/Kg wet	0.0997		100	40-140	**30.1**	*	30	R-05
Methoxychlor [2C]	0.11	0.050	mg/Kg wet	0.0997		113	40-140	23.8		30	
Surrogate: Decachlorobiphenyl	*0.209*		mg/Kg wet	0.199		105	30-150				
Surrogate: Decachlorobiphenyl [2C]	*0.220*		mg/Kg wet	0.199		110	30-150				
Surrogate: Tetrachloro-m-xylene	*0.186*		mg/Kg wet	0.199		93.2	30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*0.191*		mg/Kg wet	0.199		96.0	30-150				

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B374053 - SW-846 3546										
Matrix Spike (B374053-MS1)	**Source: 24E1437-06**			Prepared: 05/10/24 Analyzed: 05/14/24						
Aldrin	0.10	0.0066	mg/Kg dry	0.133	ND	77.7	30-150			
Aldrin [2C]	0.11	0.0066	mg/Kg dry	0.133	ND	82.0	30-150			
alpha-BHC	0.11	0.0066	mg/Kg dry	0.133	ND	82.1	30-150			
alpha-BHC [2C]	0.11	0.0066	mg/Kg dry	0.133	ND	83.2	30-150			
beta-BHC	0.093	0.0066	mg/Kg dry	0.133	ND	69.9	30-150			
beta-BHC [2C]	0.098	0.0066	mg/Kg dry	0.133	ND	73.6	30-150			
delta-BHC	0.099	0.0066	mg/Kg dry	0.133	ND	75.0	30-150			
delta-BHC [2C]	0.10	0.0066	mg/Kg dry	0.133	ND	75.6	30-150			
gamma-BHC (Lindane)	0.10	0.0027	mg/Kg dry	0.133	ND	76.7	30-150			
gamma-BHC (Lindane) [2C]	0.11	0.0027	mg/Kg dry	0.133	ND	81.4	30-150			
4,4'-DDD	0.12	0.0053	mg/Kg dry	0.133	ND	94.0	30-150			
4,4'-DDD [2C]	0.13	0.0053	mg/Kg dry	0.133	ND	99.4	30-150			V-06
4,4'-DDE	0.11	0.0053	mg/Kg dry	0.133	ND	81.4	30-150			
4,4'-DDE [2C]	0.11	0.0053	mg/Kg dry	0.133	ND	86.1	30-150			
4,4'-DDT	0.080	0.0053	mg/Kg dry	0.133	ND	60.4	30-150			
4,4'-DDT [2C]	0.081	0.0053	mg/Kg dry	0.133	ND	60.9	30-150			
Dieldrin	0.11	0.0053	mg/Kg dry	0.133	ND	81.3	30-150			
Dieldrin [2C]	0.11	0.0053	mg/Kg dry	0.133	ND	86.4	30-150			
Endosulfan I	0.11	0.0066	mg/Kg dry	0.133	ND	80.4	30-150			
Endosulfan I [2C]	0.11	0.0066	mg/Kg dry	0.133	ND	85.5	30-150			
Endosulfan II	0.10	0.011	mg/Kg dry	0.133	ND	77.1	30-150			
Endosulfan II [2C]	0.12	0.011	mg/Kg dry	0.133	ND	86.9	30-150			
Endosulfan Sulfate	0.081	0.011	mg/Kg dry	0.133	ND	60.8	30-150			
Endosulfan Sulfate [2C]	0.10	0.011	mg/Kg dry	0.133	ND	77.6	30-150			
Endrin	0.11	0.011	mg/Kg dry	0.133	ND	86.0	30-150			
Endrin [2C]	0.12	0.011	mg/Kg dry	0.133	ND	88.6	30-150			
Endrin Aldehyde	0.069	0.011	mg/Kg dry	0.133	ND	52.1	30-150			
Endrin Aldehyde [2C]	0.076	0.011	mg/Kg dry	0.133	ND	57.4	30-150			
Endrin Ketone	0.099	0.011	mg/Kg dry	0.133	ND	74.5	30-150			
Endrin Ketone [2C]	0.10	0.011	mg/Kg dry	0.133	ND	77.8	30-150			
Heptachlor	0.11	0.0066	mg/Kg dry	0.133	ND	80.1	30-150			
Heptachlor [2C]	0.11	0.0066	mg/Kg dry	0.133	ND	82.5	30-150			
Heptachlor Epoxide	0.10	0.0066	mg/Kg dry	0.133	ND	78.6	30-150			
Heptachlor Epoxide [2C]	0.11	0.0066	mg/Kg dry	0.133	ND	80.9	30-150			
Methoxychlor	0.069	0.066	mg/Kg dry	0.133	ND	52.3	30-150			R-05
Methoxychlor [2C]	0.083	0.066	mg/Kg dry	0.133	ND	62.6	30-150			
Surrogate: Decachlorobiphenyl	*0.191*		mg/Kg dry	0.265		71.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.203*		mg/Kg dry	0.265		76.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.194*		mg/Kg dry	0.265		73.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.200*		mg/Kg dry	0.265		75.3	30-150			
Matrix Spike Dup (B374053-MSD1)	**Source: 24E1437-06**			Prepared: 05/10/24 Analyzed: 05/14/24						
Aldrin	0.12	0.0066	mg/Kg dry	0.132	ND	88.8	30-150	13.1	30	
Aldrin [2C]	0.12	0.0066	mg/Kg dry	0.132	ND	94.1	30-150	13.5	30	
alpha-BHC	0.12	0.0066	mg/Kg dry	0.132	ND	88.7	30-150	7.46	30	
alpha-BHC [2C]	0.12	0.0066	mg/Kg dry	0.132	ND	90.4	30-150	8.06	30	
beta-BHC	0.10	0.0066	mg/Kg dry	0.132	ND	76.0	30-150	8.12	30	
beta-BHC [2C]	0.11	0.0066	mg/Kg dry	0.132	ND	80.1	30-150	8.32	30	
delta-BHC	0.10	0.0066	mg/Kg dry	0.132	ND	77.6	30-150	3.25	30	
delta-BHC [2C]	0.10	0.0066	mg/Kg dry	0.132	ND	77.8	30-150	2.74	30	
gamma-BHC (Lindane)	0.11	0.0026	mg/Kg dry	0.132	ND	82.0	30-150	6.49	30	
gamma-BHC (Lindane) [2C]	0.12	0.0026	mg/Kg dry	0.132	ND	87.4	30-150	6.92	30	

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B374053 - SW-846 3546										
Matrix Spike Dup (B374053-MSD1)	**Source: 24E1437-06**			Prepared: 05/10/24 Analyzed: 05/14/24						
4,4'-DDD	0.14	0.0053	mg/Kg dry	0.132	ND	103	30-150	8.75	30	
4,4'-DDD [2C]	0.15	0.0053	mg/Kg dry	0.132	ND	111	30-150	10.5	30	V-06
4,4'-DDE	0.12	0.0053	mg/Kg dry	0.132	ND	93.0	30-150	13.1	30	
4,4'-DDE [2C]	0.13	0.0053	mg/Kg dry	0.132	ND	98.7	30-150	13.5	30	
4,4'-DDT	0.096	0.0053	mg/Kg dry	0.132	ND	72.4	30-150	17.8	30	
4,4'-DDT [2C]	0.097	0.0053	mg/Kg dry	0.132	ND	73.2	30-150	18.1	30	
Dieldrin	0.12	0.0053	mg/Kg dry	0.132	ND	88.6	30-150	8.49	30	
Dieldrin [2C]	0.13	0.0053	mg/Kg dry	0.132	ND	94.9	30-150	9.20	30	
Endosulfan I	0.12	0.0066	mg/Kg dry	0.132	ND	87.6	30-150	8.38	30	
Endosulfan I [2C]	0.12	0.0066	mg/Kg dry	0.132	ND	93.1	30-150	8.36	30	
Endosulfan II	0.11	0.011	mg/Kg dry	0.132	ND	82.0	30-150	5.99	30	
Endosulfan II [2C]	0.12	0.011	mg/Kg dry	0.132	ND	92.1	30-150	5.60	30	
Endosulfan Sulfate	0.082	0.011	mg/Kg dry	0.132	ND	61.7	30-150	1.25	30	
Endosulfan Sulfate [2C]	0.10	0.011	mg/Kg dry	0.132	ND	78.9	30-150	1.50	30	
Endrin	0.13	0.011	mg/Kg dry	0.132	ND	95.0	30-150	9.73	30	
Endrin [2C]	0.13	0.011	mg/Kg dry	0.132	ND	98.0	30-150	9.83	30	
Endrin Aldehyde	0.083	0.011	mg/Kg dry	0.132	ND	63.1	30-150	18.9	30	
Endrin Aldehyde [2C]	0.093	0.011	mg/Kg dry	0.132	ND	70.3	30-150	20.1	30	
Endrin Ketone	0.10	0.011	mg/Kg dry	0.132	ND	79.0	30-150	5.71	30	
Endrin Ketone [2C]	0.11	0.011	mg/Kg dry	0.132	ND	83.9	30-150	7.27	30	
Heptachlor	0.12	0.0066	mg/Kg dry	0.132	ND	87.7	30-150	8.94	30	
Heptachlor [2C]	0.12	0.0066	mg/Kg dry	0.132	ND	90.2	30-150	8.82	30	
Heptachlor Epoxide	0.12	0.0066	mg/Kg dry	0.132	ND	90.0	30-150	13.3	30	
Heptachlor Epoxide [2C]	0.12	0.0066	mg/Kg dry	0.132	ND	92.6	30-150	13.3	30	
Methoxychlor	0.081	0.066	mg/Kg dry	0.132	ND	61.4	30-150	15.9	30	R-05
Methoxychlor [2C]	0.096	0.066	mg/Kg dry	0.132	ND	72.2	30-150	14.0	30	
Surrogate: Decachlorobiphenyl	*0.235*		mg/Kg dry	0.265		88.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.252*		mg/Kg dry	0.265		95.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.222*		mg/Kg dry	0.265		83.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.227*		mg/Kg dry	0.265		85.8	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B374045 - SW-846 3546										
Blank (B374045-BLK1)				Prepared: 05/10/24 Analyzed: 05/11/24						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.136*		mg/Kg wet	0.199		68.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.143*		mg/Kg wet	0.199		71.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.132*		mg/Kg wet	0.199		66.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.146*		mg/Kg wet	0.199		73.2	30-150			
LCS (B374045-BS1)				Prepared: 05/10/24 Analyzed: 05/11/24						
Aroclor-1016	0.14	0.020	mg/Kg wet	0.198		70.3	40-140			
Aroclor-1016 [2C]	0.14	0.020	mg/Kg wet	0.198		72.4	40-140			
Aroclor-1260	0.14	0.020	mg/Kg wet	0.198		68.9	40-140			
Aroclor-1260 [2C]	0.14	0.020	mg/Kg wet	0.198		69.2	40-140			
Surrogate: Decachlorobiphenyl	*0.161*		mg/Kg wet	0.198		81.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.172*		mg/Kg wet	0.198		86.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.162*		mg/Kg wet	0.198		81.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.180*		mg/Kg wet	0.198		90.7	30-150			
LCS Dup (B374045-BSD1)				Prepared: 05/10/24 Analyzed: 05/11/24						
Aroclor-1016	0.13	0.020	mg/Kg wet	0.198		65.3	40-140	7.27	30	
Aroclor-1016 [2C]	0.13	0.020	mg/Kg wet	0.198		67.3	40-140	7.33	30	
Aroclor-1260	0.13	0.020	mg/Kg wet	0.198		63.8	40-140	7.67	30	
Aroclor-1260 [2C]	0.13	0.020	mg/Kg wet	0.198		64.2	40-140	7.58	30	
Surrogate: Decachlorobiphenyl	*0.145*		mg/Kg wet	0.198		73.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.155*		mg/Kg wet	0.198		78.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.149*		mg/Kg wet	0.198		75.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.166*		mg/Kg wet	0.198		83.4	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B374045 - SW-846 3546										
Matrix Spike (B374045-MS1)	**Source: 24E1437-06**			Prepared: 05/10/24 Analyzed: 05/14/24						
Aroclor-1016	0.19	0.10	mg/Kg dry	0.259	ND	75.1	40-140			
Aroclor-1016 [2C]	0.19	0.10	mg/Kg dry	0.259	ND	74.5	40-140			
Aroclor-1260	0.19	0.10	mg/Kg dry	0.259	ND	75.0	40-140			
Aroclor-1260 [2C]	0.19	0.10	mg/Kg dry	0.259	ND	73.0	40-140			
Surrogate: Decachlorobiphenyl	*0.208*		mg/Kg dry	0.259		80.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.210*		mg/Kg dry	0.259		81.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.214*		mg/Kg dry	0.259		82.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.221*		mg/Kg dry	0.259		85.3	30-150			
Matrix Spike Dup (B374045-MSD1)	**Source: 24E1437-06**			Prepared: 05/10/24 Analyzed: 05/14/24						
Aroclor-1016	0.21	0.10	mg/Kg dry	0.259	ND	81.1	40-140	7.76	30	
Aroclor-1016 [2C]	0.21	0.10	mg/Kg dry	0.259	ND	80.4	40-140	7.54	30	
Aroclor-1260	0.21	0.10	mg/Kg dry	0.259	ND	81.4	40-140	8.28	30	
Aroclor-1260 [2C]	0.20	0.10	mg/Kg dry	0.259	ND	77.8	40-140	6.31	30	
Surrogate: Decachlorobiphenyl	*0.225*		mg/Kg dry	0.259		87.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.227*		mg/Kg dry	0.259		87.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.228*		mg/Kg dry	0.259		88.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.237*		mg/Kg dry	0.259		91.5	30-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B374725 - SW-846 3050B											
Blank (B374725-BLK1)				Prepared: 05/17/24 Analyzed: 05/22/24							
Aluminum	ND	16	mg/Kg wet								
Arsenic	ND	3.3	mg/Kg wet								
Barium	ND	1.6	mg/Kg wet								
Beryllium	ND	0.16	mg/Kg wet								
Cadmium	ND	0.33	mg/Kg wet								
Calcium	ND	16	mg/Kg wet								
Chromium	ND	0.66	mg/Kg wet								
Cobalt	ND	1.6	mg/Kg wet								
Copper	ND	1.3	mg/Kg wet								
Iron	ND	16	mg/Kg wet								
Lead	ND	0.49	mg/Kg wet								
Magnesium	ND	16	mg/Kg wet								
Manganese	ND	0.33	mg/Kg wet								
Nickel	ND	0.66	mg/Kg wet								
Potassium	ND	160	mg/Kg wet								
Selenium	ND	3.3	mg/Kg wet								
Silver	ND	0.33	mg/Kg wet								
Sodium	ND	160	mg/Kg wet								
Vanadium	ND	0.66	mg/Kg wet								
Zinc	ND	0.66	mg/Kg wet								
Blank (B374725-BLK2)				Prepared: 05/17/24 Analyzed: 05/27/24							
Antimony	ND	1.6	mg/Kg wet								
Thallium	ND	1.6	mg/Kg wet								
LCS (B374725-BS1)				Prepared: 05/17/24 Analyzed: 05/22/24							
Aluminum	5600	50	mg/Kg wet	6780		82.7		52.9-147.2			
Arsenic	298	9.9	mg/Kg wet	311		95.9		81.7-118.3			
Barium	332	5.0	mg/Kg wet	304		109		82.8-117.2			
Beryllium	178	0.50	mg/Kg wet	169		105		82.8-117.2			
Cadmium	216	0.99	mg/Kg wet	212		102		82.5-117.9			
Calcium	5320	50	mg/Kg wet	5170		103		82-117.8			
Chromium	192	2.0	mg/Kg wet	180		107		81.1-118.3			
Cobalt	84.8	5.0	mg/Kg wet	81.6		104		83.2-116.9			
Copper	222	4.0	mg/Kg wet	205		108		82.9-117.1			
Iron	6070	50	mg/Kg wet	6510		93.3		57.8-142.2			
Lead	92.9	1.5	mg/Kg wet	92.8		100		81.8-118.5			
Magnesium	1650	50	mg/Kg wet	1700		96.9		75.3-124.1			
Manganese	640	0.99	mg/Kg wet	531		**121**	*	80.8-119.2			L-07
Nickel	319	2.0	mg/Kg wet	313		102		82.4-117.6			
Potassium	1240	500	mg/Kg wet	1370		90.2		72.3-127.7			
Selenium	167	9.9	mg/Kg wet	165		101		80.6-119.4			
Silver	86.5	0.99	mg/Kg wet	82.4		105		79.5-120.4			
Sodium	498	500	mg/Kg wet	486		102		74.3-125.7			
Vanadium	115	2.0	mg/Kg wet	103		112		78-122.3			
Zinc	176	2.0	mg/Kg wet	166		106		80.1-120.5			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B374725 - SW-846 3050B											
LCS (B374725-BS2)				Prepared: 05/17/24 Analyzed: 05/27/24							
Antimony	106	5.0	mg/Kg wet	127		83.1		2-200.8			
Thallium	214	5.0	mg/Kg wet	205		104		81-119.5			
LCS Dup (B374725-BSD1)				Prepared: 05/17/24 Analyzed: 05/22/24							
Aluminum	5410	50	mg/Kg wet	6780		79.8		52.9-147.2	3.51	30	
Arsenic	279	10	mg/Kg wet	311		89.6		81.7-118.3	6.74	30	
Barium	298	5.0	mg/Kg wet	304		98.0		82.8-117.2	10.9	20	
Beryllium	164	0.50	mg/Kg wet	169		97.0		82.8-117.2	7.95	30	
Cadmium	202	1.0	mg/Kg wet	212		95.2		82.5-117.9	6.69	20	
Calcium	5090	50	mg/Kg wet	5170		98.5		82-117.8	4.34	30	
Chromium	179	2.0	mg/Kg wet	180		99.4		81.1-118.3	6.92	30	
Cobalt	80.1	5.0	mg/Kg wet	81.6		98.1		83.2-116.9	5.76	20	
Copper	208	4.0	mg/Kg wet	205		101		82.9-117.1	6.63	30	
Iron	5800	50	mg/Kg wet	6510		89.1		57.8-142.2	4.60	30	
Lead	88.5	1.5	mg/Kg wet	92.8		95.4		81.8-118.5	4.89	30	
Magnesium	1600	50	mg/Kg wet	1700		93.9		75.3-124.1	3.06	30	
Manganese	528	1.0	mg/Kg wet	531		99.4		80.8-119.2	19.3	30	
Nickel	300	2.0	mg/Kg wet	313		95.8		82.4-117.6	6.08	30	
Potassium	1180	500	mg/Kg wet	1370		86.2		72.3-127.7	4.54	30	
Selenium	155	10	mg/Kg wet	165		93.7		80.6-119.4	7.81	30	
Silver	83.2	1.0	mg/Kg wet	82.4		101		79.5-120.4	3.89	30	
Sodium	467	500	mg/Kg wet	486		96.1		74.3-125.7	6.36	30	J
Vanadium	106	2.0	mg/Kg wet	103		103		78-122.3	8.40	30	
Zinc	169	2.0	mg/Kg wet	166		102		80.1-120.5	3.55	30	
LCS Dup (B374725-BSD2)				Prepared: 05/17/24 Analyzed: 05/27/24							
Antimony	104	5.0	mg/Kg wet	127		82.0		2-200.8	1.27	30	
Thallium	203	5.0	mg/Kg wet	205		99.0		81-119.5	5.11	30	
Matrix Spike (B374725-MS1)	**Source: 24E1437-06**			Prepared: 05/17/24 Analyzed: 05/22/24							
Aluminum	15900	22	mg/Kg dry	21.9	15600	**1330**	*	75-125			MS-19
Arsenic	23.6	4.4	mg/Kg dry	21.9	5.42	83.2		75-125			
Barium	105	2.2	mg/Kg dry	21.9	90.6	**67.4**	*	75-125			MS-22
Beryllium	20.8	0.22	mg/Kg dry	21.9	0.692	91.6		75-125			
Cadmium	20.3	0.44	mg/Kg dry	21.9	0.262	91.7		75-125			
Calcium	8170	22	mg/Kg dry	175	5270	**1660**	*	75-125			MS-19
Chromium	36.7	0.88	mg/Kg dry	21.9	17.1	89.3		75-125			
Cobalt	29.9	2.2	mg/Kg dry	21.9	11.3	84.8		75-125			
Copper	78.9	1.8	mg/Kg dry	43.8	33.7	103		75-125			
Lead	57.9	0.66	mg/Kg dry	21.9	41.0	77.1		75-125			
Magnesium	4420	22	mg/Kg dry	175	4240	104		75-125			
Manganese	571	0.44	mg/Kg dry	21.9	565	**30.2**	*	75-125			MS-19
Nickel	43.0	0.88	mg/Kg dry	21.9	24.2	86.0		75-125			
Potassium	1010	220	mg/Kg dry	175	887	**71.9**	*	75-125			MS-22
Selenium	17.4	4.4	mg/Kg dry	21.9	ND	79.3		75-125			
Silver	19.9	0.44	mg/Kg dry	21.9	ND	90.7		75-125			
Sodium	215	220	mg/Kg dry	175	ND	123		75-125			J
Vanadium	41.8	0.88	mg/Kg dry	21.9	21.9	90.7		75-125			
Zinc	124	0.88	mg/Kg dry	43.8	88.0	82.6		75-125			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes
Batch B374725 - SW-846 3050B												
Matrix Spike (B374725-MS3)	**Source: 24E1437-06**			Prepared: 05/17/24 Analyzed: 05/23/24								
Iron	31800	220	mg/Kg dry	175	29300	**1420**	*	75-125				MS-19
Matrix Spike (B374725-MS4)	**Source: 24E1437-06**			Prepared: 05/17/24 Analyzed: 05/27/24								
Antimony	1.97	2.2	mg/Kg dry	21.9	ND	**9.00**	*	75-125				Z-01, J
Thallium	22.9	2.2	mg/Kg dry	21.9	ND	104		75-125				
Matrix Spike Dup (B374725-MSD1)	**Source: 24E1437-06**			Prepared: 05/17/24 Analyzed: 05/22/24								
Aluminum	16300	22	mg/Kg dry	21.8	15600	**3570**	*	75-125	3.02		35	MS-19
Arsenic	23.8	4.4	mg/Kg dry	21.8	5.42	84.3		75-125	0.814		35	
Barium	110	2.2	mg/Kg dry	21.8	90.6	86.6		75-125	3.88		35	
Beryllium	21.9	0.22	mg/Kg dry	21.8	0.692	97.1		75-125	5.43		35	
Cadmium	21.1	0.44	mg/Kg dry	21.8	0.262	95.3		75-125	3.57		35	
Calcium	3920	22	mg/Kg dry	175	5270	**-774**	*	75-125	**70.4**	*	35	MS-19
Chromium	38.9	0.87	mg/Kg dry	21.8	17.1	99.6		75-125	5.83		35	
Cobalt	31.3	2.2	mg/Kg dry	21.8	11.3	91.8		75-125	4.85		35	
Copper	81.0	1.7	mg/Kg dry	43.7	33.7	108		75-125	2.67		35	
Lead	58.5	0.66	mg/Kg dry	21.8	41.0	80.3		75-125	1.13		35	
Magnesium	4410	22	mg/Kg dry	175	4240	98.8		75-125	0.218		35	
Manganese	529	0.44	mg/Kg dry	21.8	565	**-164**	*	75-125	7.73		35	MS-19
Nickel	44.3	0.87	mg/Kg dry	21.8	24.2	92.0		75-125	2.92		35	
Potassium	1040	220	mg/Kg dry	175	887	87.8		75-125	2.70		35	
Selenium	18.7	4.4	mg/Kg dry	21.8	ND	85.6		75-125	7.46		35	
Silver	20.4	0.44	mg/Kg dry	21.8	ND	93.5		75-125	2.84		35	
Sodium	221	220	mg/Kg dry	175	ND	**126**	*	75-125	2.69		35	MS-22
Vanadium	43.9	0.87	mg/Kg dry	21.8	21.9	101		75-125	4.99		35	
Zinc	131	0.87	mg/Kg dry	43.7	88.0	98.3		75-125	5.31		35	
Matrix Spike Dup (B374725-MSD3)	**Source: 24E1437-06**			Prepared: 05/17/24 Analyzed: 05/23/24								
Iron	31400	220	mg/Kg dry	175	29300	**1230**	*	75-125	1.08		35	MS-19
Matrix Spike Dup (B374725-MSD4)	**Source: 24E1437-06**			Prepared: 05/17/24 Analyzed: 05/27/24								
Antimony	1.92	2.2	mg/Kg dry	21.8	ND	**8.80**	*	75-125	2.41		35	Z-01, J
Thallium	22.3	2.2	mg/Kg dry	21.8	ND	102		75-125	2.41		35	
Post Spike (B374725-PS1)	**Source: 24E1437-06**			Prepared: 05/17/24 Analyzed: 05/22/24								
Aluminum	334		mg/L	2.00	347	**-631**	*	75-125				MS-19
Antimony	1.79		mg/L	2.00	-0.0255	89.4		75-125				Z-01
Arsenic	1.85		mg/L	2.00	0.121	86.5		75-125				
Barium	3.78		mg/L	2.00	2.02	88.0		75-125				
Beryllium	1.89		mg/L	2.00	0.0154	94.0		75-125				
Cadmium	1.90		mg/L	2.00	0.00584	94.7		75-125				
Calcium	128		mg/L	16.0	117	**63.4**	*	75-125				MS-19
Chromium	2.24		mg/L	2.00	0.382	92.8		75-125				
Cobalt	2.01		mg/L	2.00	0.252	87.9		75-125				
Copper	4.86		mg/L	4.00	0.750	103		75-125				
Lead	2.55		mg/L	2.00	0.914	81.7		75-125				
Magnesium	106		mg/L	16.0	94.5	**69.6**	*	75-125				MS-19
Manganese	13.7		mg/L	2.00	12.6	**56.5**	*	75-125				MS-19
Nickel	2.25		mg/L	2.00	0.540	85.6		75-125				
Potassium	33.8		mg/L	16.0	19.8	87.7		75-125				
Selenium	1.79		mg/L	2.00	-0.0139	89.5		75-125				
Silver	1.99		mg/L	2.00	-0.0255	99.3		75-125				
Sodium	16.2		mg/L	16.0	1.18	93.7		75-125				
Vanadium	2.40		mg/L	2.00	0.489	95.6		75-125				

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B374725 - SW-846 3050B											
Post Spike (B374725-PS1)	**Source: 24E1437-06**			Prepared: 05/17/24 Analyzed: 05/22/24							
Zinc	5.42		mg/L	4.00	1.96	86.6		75-125			
Post Spike (B374725-PS3)	**Source: 24E1437-06**			Prepared: 05/17/24 Analyzed: 05/23/24							
Iron	798		mg/L	16.0	653	**908**	*	75-125			MS-19
Dilution Check (B374725-SRL1)	**Source: 24E1437-06**			Prepared: 05/17/24 Analyzed: 05/22/24							
Aluminum	16500	110	mg/Kg dry		15600				5.63	20	
Arsenic	5.53	22	mg/Kg dry		5.42				2.05	20	J
Barium	99.1	11	mg/Kg dry		90.6				8.90	20	
Beryllium	0.734	1.1	mg/Kg dry		0.692				5.87	20	J
Cadmium	ND	2.2	mg/Kg dry		ND					20	
Calcium	5810	110	mg/Kg dry		5270				9.74	20	
Chromium	18.2	4.5	mg/Kg dry		17.1				5.83	20	
Cobalt	12.8	11	mg/Kg dry		11.3				12.9	20	
Copper	35.6	9.0	mg/Kg dry		33.7				5.55	20	
Lead	48.6	3.4	mg/Kg dry		41.0				17.0	20	
Magnesium	4700	110	mg/Kg dry		4240				10.3	20	
Manganese	631	2.2	mg/Kg dry		565				11.2	20	
Nickel	27.6	4.5	mg/Kg dry		24.2				13.1	20	
Potassium	952	1100	mg/Kg dry		887				7.07	20	J
Selenium	ND	22	mg/Kg dry		ND					20	
Silver	ND	2.2	mg/Kg dry		ND					20	
Sodium	ND	1100	mg/Kg dry		ND					20	
Vanadium	23.5	4.5	mg/Kg dry		21.9				6.73	20	
Zinc	100	4.5	mg/Kg dry		88.0				13.1	20	
Batch B375006 - SW-846 7471											
Blank (B375006-BLK1)				Prepared: 05/21/24 Analyzed: 05/23/24							
Mercury	ND	0.022	mg/Kg wet								
LCS (B375006-BS1)				Prepared: 05/21/24 Analyzed: 05/23/24							
Mercury	11.8	1.9	mg/Kg wet	11.9		99.3		67.1-131.9			
LCS Dup (B375006-BSD1)				Prepared: 05/21/24 Analyzed: 05/23/24							
Mercury	12.1	1.9	mg/Kg wet	11.9		102		67.1-131.9	2.76	20	
Matrix Spike (B375006-MS1)	**Source: 24E1437-06**			Prepared: 05/21/24 Analyzed: 05/23/24							
Mercury	0.496	0.032	mg/Kg dry	0.432	0.0568	102		80-120			
Matrix Spike Dup (B375006-MSD1)	**Source: 24E1437-06**			Prepared: 05/21/24 Analyzed: 05/23/24							
Mercury	0.504	0.034	mg/Kg dry	0.457	0.0568	97.8		80-120	1.67	20	

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B374146 - SW-846 9010C										
Blank (B374146-BLK1)				Prepared: 05/13/24 Analyzed: 05/14/24						
Cyanide	ND	0.49	mg/Kg wet							
LCS (B374146-BS1)				Prepared: 05/13/24 Analyzed: 05/14/24						
Cyanide	150	4.9	mg/Kg wet	130		117	80-120			
LCS Dup (B374146-BSD1)				Prepared: 05/13/24 Analyzed: 05/14/24						
Cyanide	120	5.0	mg/Kg wet	130		94.2	80-120	21.0	30	
Matrix Spike (B374146-MS1)	**Source: 24E1437-06**			Prepared: 05/13/24 Analyzed: 05/14/24						
Cyanide	20	0.66	mg/Kg dry	19.9	ND	102	75-125			
Matrix Spike Dup (B374146-MSD1)	**Source: 24E1437-06**			Prepared: 05/13/24 Analyzed: 05/14/24						
Cyanide	18	0.61	mg/Kg dry	18.2	ND	101	75-125	9.48	35	
Batch B374255 - % Solids										
Duplicate (B374255-DUP1)	**Source: 24E1437-06**			Prepared & Analyzed: 05/13/24						
% Solids	73.0		% Wt		72.5			0.662	10	
Batch B374399 - SW-846 9010C										
Blank (B374399-BLK1)				Prepared: 05/15/24 Analyzed: 05/16/24						
Cyanide	ND	0.48	mg/Kg wet							
LCS (B374399-BS1)				Prepared: 05/15/24 Analyzed: 05/16/24						
Cyanide	ND	5.0	mg/Kg wet	131		*	80-120			L-07
LCS Dup (B374399-BSD1)				Prepared: 05/15/24 Analyzed: 05/16/24						
Cyanide	150	5.0	mg/Kg wet	131		114	80-120		30	
Matrix Spike (B374399-MS1)	**Source: 24E1437-04**			Prepared: 05/15/24 Analyzed: 05/16/24						
Cyanide	18	0.58	mg/Kg dry	17.5	ND	106	75-125			
Matrix Spike Dup (B374399-MSD1)	**Source: 24E1437-04**			Prepared: 05/15/24 Analyzed: 05/16/24						
Cyanide	17	0.57	mg/Kg dry	17.1	ND	98.2	75-125	9.33	35	

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BREAKDOWN REPORT

Lab Sample ID:	S104592-PEM1	Analyzed:	05/14/2024

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	1.18
Endrin [1]	3.31

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	0.99
Endrin [2]	3.31

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

CG-2

Lab Sample ID: 24E1437-02

Date(s) Analyzed: 05/14/2024 05/14/2024

Instrument ID (1): ECD 9

Instrument ID (2): ECD 9

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	0.089	
	2	0.000	0.000	0.000	0.075	17.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

B1A

Lab Sample ID: 24E1437-04 Date(s) Analyzed: 05/14/2024 05/14/2024

Instrument ID (1): ECD 8 Instrument ID (2): ECD 8

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDT	1	5.745	-0.030	0.030	0.021	
	2	5.729	-0.030	0.030	0.021	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

SB4A

Lab Sample ID: 24E1437-12 Date(s) Analyzed: 05/14/2024 05/14/2024

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	1.1	
	2	0.000	0.000	0.000	1.1	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

SB7

Lab Sample ID: 24E1437-17 Date(s) Analyzed: 05/14/2024 05/14/2024

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	0.082	
	2	0.000	0.000	0.000	0.091	10.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

DUP

Lab Sample ID: 24E1437-19 Date(s) Analyzed: 05/14/2024 05/14/2024

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	0.11	
	2	0.000	0.000	0.000	0.092	17.8

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B374045-BS1 Date(s) Analyzed: 05/11/2024 05/11/2024

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.14	
	2	0.000	0.000	0.000	0.14	0.0
Aroclor-1260	1	0.000	0.000	0.000	0.14	
	2	0.000	0.000	0.000	0.14	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B374045-BSD1 Date(s) Analyzed: 05/11/2024 05/11/2024

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.13	
	2	0.000	0.000	0.000	0.13	0.0
Aroclor-1260	1	0.000	0.000	0.000	0.13	
	2	0.000	0.000	0.000	0.13	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B374045-MS1 Date(s) Analyzed: 05/14/2024 05/14/2024

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.19	
	2	0.000	0.000	0.000	0.19	0.0
Aroclor-1260	1	0.000	0.000	0.000	0.19	
	2	0.000	0.000	0.000	0.19	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B374045-MSD1 Date(s) Analyzed: 05/14/2024 05/14/2024

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.21	
	2	0.000	0.000	0.000	0.21	0.0
Aroclor-1260	1	0.000	0.000	0.000	0.21	
	2	0.000	0.000	0.000	0.20	4.9

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B374053-BS1 Date(s) Analyzed: 05/14/2024 05/14/2024

Instrument ID (1): ECD 8A Instrument ID (2): ECD 8B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	5.516	-0.030	0.030	0.093	
	2	5.474	-0.030	0.030	0.099	6.3
4,4'-DDE	1	5.025	-0.030	0.030	0.092	
	2	5.005	-0.030	0.030	0.096	4.3
4,4'-DDT	1	5.746	-0.030	0.030	0.091	
	2	5.731	-0.030	0.030	0.092	1.1
Aldrin	1	4.258	-0.030	0.030	0.086	
	2	4.134	-0.030	0.030	0.090	4.6
alpha-BHC	1	3.363	-0.030	0.030	0.085	
	2	3.251	-0.030	0.030	0.086	1.2
alpha-Chlordane	1	4.964	-0.030	0.030	0.088	
	2	4.862	-0.030	0.030	0.093	5.5
beta-BHC	1	3.692	-0.030	0.030	0.081	
	2	3.599	-0.030	0.030	0.084	3.6
delta-BHC	1	3.838	-0.030	0.030	0.085	
	2	3.829	-0.030	0.030	0.086	1.2
Dieldrin	1	5.275	-0.030	0.030	0.090	
	2	5.127	-0.030	0.030	0.095	5.4
Endosulfan I	1	5.078	-0.030	0.030	0.090	
	2	4.905	-0.030	0.030	0.094	4.4
Endosulfan II	1	5.651	-0.030	0.030	0.088	
	2	5.545	-0.030	0.030	0.095	7.7
Endosulfan Sulfate	1	6.302	-0.030	0.030	0.070	
	2	6.037	-0.030	0.030	0.089	23.9
Endrin	1	5.467	-0.030	0.030	0.095	
	2	5.372	-0.030	0.030	0.098	3.1
Endrin Aldehyde	1	5.989	-0.030	0.030	0.074	
	2	5.823	-0.030	0.030	0.083	11.5
Endrin Ketone	1	6.487	-0.030	0.030	0.086	
	2	6.400	-0.030	0.030	0.088	2.3
gamma-BHC (Lindane)	1	3.623	-0.030	0.030	0.082	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B374053-BS1 Date(s) Analyzed: 05/14/2024 05/14/2024

Instrument ID (1): ECD 8A Instrument ID (2): ECD 8B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	3.531	-0.030	0.030	0.087	5.9
gamma-Chlordane	1	4.855	-0.030	0.030	0.084	
	2	4.744	-0.030	0.030	0.093	9.0
Heptachlor	1	4.755	-0.030	0.030	0.088	
	2	4.592	-0.030	0.030	0.091	2.2
Heptachlor Epoxide	1	4.011	-0.030	0.030	0.087	
	2	3.879	-0.030	0.030	0.091	4.5
Methoxychlor	1	6.118	-0.030	0.030	0.074	
	2	6.250	-0.030	0.030	0.089	18.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B374053-BSD1 Date(s) Analyzed: 05/14/2024 05/14/2024

Instrument ID (1): ECD 8A Instrument ID (2): ECD 8B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	5.516	-0.030	0.030	0.12	
	2	5.474	-0.030	0.030	0.12	0.0
4,4'-DDE	1	5.025	-0.030	0.030	0.11	
	2	5.005	-0.030	0.030	0.12	8.7
4,4'-DDT	1	5.746	-0.030	0.030	0.12	
	2	5.731	-0.030	0.030	0.12	0.0
Aldrin	1	4.258	-0.030	0.030	0.10	
	2	4.134	-0.030	0.030	0.11	9.5
alpha-BHC	1	3.364	-0.030	0.030	0.10	
	2	3.252	-0.030	0.030	0.11	9.5
alpha-Chlordane	1	4.964	-0.030	0.030	0.11	
	2	4.862	-0.030	0.030	0.11	0.0
beta-BHC	1	3.692	-0.030	0.030	0.094	
	2	3.599	-0.030	0.030	0.099	5.2
delta-BHC	1	3.838	-0.030	0.030	0.10	
	2	3.830	-0.030	0.030	0.10	0.0
Dieldrin	1	5.275	-0.030	0.030	0.11	
	2	5.127	-0.030	0.030	0.12	8.7
Endosulfan I	1	5.078	-0.030	0.030	0.11	
	2	4.905	-0.030	0.030	0.11	0.0
Endosulfan II	1	5.651	-0.030	0.030	0.11	
	2	5.545	-0.030	0.030	0.12	8.7
Endosulfan Sulfate	1	6.302	-0.030	0.030	0.089	
	2	6.038	-0.030	0.030	0.11	21.1
Endrin	1	5.467	-0.030	0.030	0.12	
	2	5.373	-0.030	0.030	0.12	0.0
Endrin Aldehyde	1	5.989	-0.030	0.030	0.085	
	2	5.823	-0.030	0.030	0.095	11.1
Endrin Ketone	1	6.486	-0.030	0.030	0.11	
	2	6.400	-0.030	0.030	0.11	0.0
gamma-BHC (Lindane)	1	3.623	-0.030	0.030	0.099	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B374053-BSD1 Date(s) Analyzed: 05/14/2024 05/14/2024

Instrument ID (1): ECD 8A Instrument ID (2): ECD 8B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	3.532	-0.030	0.030	0.10	0.0
gamma-Chlordane	1	4.855	-0.030	0.030	0.10	
	2	4.744	-0.030	0.030	0.11	9.5
Heptachlor	1	4.754	-0.030	0.030	0.11	
	2	4.592	-0.030	0.030	0.11	0.0
Heptachlor Epoxide	1	4.011	-0.030	0.030	0.11	
	2	3.879	-0.030	0.030	0.11	0.0
Methoxychlor	1	6.118	-0.030	0.030	0.10	
	2	6.250	-0.030	0.030	0.11	9.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

Matrix Spike

Lab Sample ID: B374053-MS1 Date(s) Analyzed: 05/14/2024 05/14/2024

Instrument ID (1): ECD 8A Instrument ID (2): ECD 8B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	5.516	-0.030	0.030	0.12	
	2	5.473	-0.030	0.030	0.13	0.0
4,4'-DDE	1	5.025	-0.030	0.030	0.11	
	2	5.004	-0.030	0.030	0.11	0.0
4,4'-DDT	1	5.746	-0.030	0.030	0.080	
	2	5.730	-0.030	0.030	0.081	1.2
Aldrin	1	4.258	-0.030	0.030	0.10	
	2	4.134	-0.030	0.030	0.11	9.5
alpha-BHC	1	3.363	-0.030	0.030	0.11	
	2	3.251	-0.030	0.030	0.11	0.0
beta-BHC	1	3.692	-0.030	0.030	0.093	
	2	3.598	-0.030	0.030	0.098	5.2
delta-BHC	1	3.838	-0.030	0.030	0.099	
	2	3.829	-0.030	0.030	0.10	0.0
Dieldrin	1	5.275	-0.030	0.030	0.11	
	2	5.126	-0.030	0.030	0.11	0.0
Endosulfan I	1	5.078	-0.030	0.030	0.11	
	2	4.905	-0.030	0.030	0.11	0.0
Endosulfan II	1	5.650	-0.030	0.030	0.10	
	2	5.545	-0.030	0.030	0.12	18.2
Endosulfan Sulfate	1	6.302	-0.030	0.030	0.081	
	2	6.036	-0.030	0.030	0.10	21.0
Endrin	1	5.467	-0.030	0.030	0.11	
	2	5.372	-0.030	0.030	0.12	8.7
Endrin Aldehyde	1	5.989	5.960	6.020	0.069	
	2	5.822	5.792	5.852	0.076	9.7
Endrin Ketone	1	6.487	-0.030	0.030	0.099	
	2	6.400	-0.030	0.030	0.10	1.0
gamma-BHC (Lindane)	1	3.623	-0.030	0.030	0.10	
	2	3.531	-0.030	0.030	0.11	9.5
Heptachlor	1	4.755	-0.030	0.030	0.11	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

Matrix Spike

Lab Sample ID: B374053-MS1 Date(s) Analyzed: 05/14/2024 05/14/2024

Instrument ID (1): ECD 8A Instrument ID (2): ECD 8B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	4.592	-0.030	0.030	0.11	0.0
Heptachlor Epoxide	1	4.011	-0.030	0.030	0.10	
	2	3.879	-0.030	0.030	0.11	9.5
Methoxychlor	1	6.118	-0.030	0.030	0.069	
	2	6.249	-0.030	0.030	0.083	18.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

Matrix Spike Dup

Lab Sample ID: B374053-MSD1 Date(s) Analyzed: 05/14/2024 05/14/2024

Instrument ID (1): ECD 8A Instrument ID (2): ECD 8B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	5.516	-0.030	0.030	0.14	
	2	5.474	-0.030	0.030	0.15	6.9
4,4'-DDE	1	5.025	-0.030	0.030	0.12	
	2	5.005	-0.030	0.030	0.13	8.0
4,4'-DDT	1	5.747	-0.030	0.030	0.096	
	2	5.730	-0.030	0.030	0.097	1.0
Aldrin	1	4.258	-0.030	0.030	0.12	
	2	4.134	-0.030	0.030	0.12	0.0
alpha-BHC	1	3.363	-0.030	0.030	0.12	
	2	3.251	-0.030	0.030	0.12	0.0
beta-BHC	1	3.692	-0.030	0.030	0.10	
	2	3.598	-0.030	0.030	0.11	9.5
delta-BHC	1	3.838	-0.030	0.030	0.10	
	2	3.830	-0.030	0.030	0.10	0.0
Dieldrin	1	5.275	-0.030	0.030	0.12	
	2	5.127	-0.030	0.030	0.13	8.0
Endosulfan I	1	5.079	-0.030	0.030	0.12	
	2	4.905	-0.030	0.030	0.12	0.0
Endosulfan II	1	5.651	-0.030	0.030	0.11	
	2	5.545	-0.030	0.030	0.12	8.7
Endosulfan Sulfate	1	6.302	-0.030	0.030	0.082	
	2	6.037	-0.030	0.030	0.10	19.8
Endrin	1	5.467	-0.030	0.030	0.13	
	2	5.372	-0.030	0.030	0.13	0.0
Endrin Aldehyde	1	5.990	5.960	6.020	0.083	
	2	5.822	5.792	5.852	0.093	10.2
Endrin Ketone	1	6.487	-0.030	0.030	0.10	
	2	6.400	-0.030	0.030	0.11	0.0
gamma-BHC (Lindane)	1	3.623	-0.030	0.030	0.11	
	2	3.531	-0.030	0.030	0.12	8.7
Heptachlor	1	4.755	-0.030	0.030	0.12	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

Matrix Spike Dup

Lab Sample ID: B374053-MSD1 Date(s) Analyzed: 05/14/2024 05/14/2024

Instrument ID (1): ECD 8A Instrument ID (2): ECD 8B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
	2	4.592	-0.030	0.030	0.12	0.0
Heptachlor Epoxide	1	4.011	-0.030	0.030	0.12	
	2	3.879	-0.030	0.030	0.12	0.0
Methoxychlor	1	6.118	-0.030	0.030	0.081	
	2	6.250	-0.030	0.030	0.096	16.9

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
B	Analyte is found in the associated laboratory blank as well as in the sample.
B-05	Data is not affected by elevated level in laboratory blank since sample(s) result is "Not Detected".
D	Sample analyzed at a dilution.
DL-03	Elevated reporting limit due to matrix.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-05	Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the high side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
MS-07A	Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.
MS-09	Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-15	Matrix spike and matrix spike duplicate recoveries are outside of control limits. Data validation is not affected since results for this compound in this sample are "not detected", and recovery bias is on the high side.
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.
MS-22	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.
MS-24	Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Analysis is in control based on laboratory fortified blank recovery.
PF-17	Extracted Internal Standard recovery is outside of control limits. Data is not significantly affected since associated analyte is not detected and bias is on the high side.
PF-22	Qualifier ion ratio >150% of associated calibration. Detection is suspect.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
R-06	Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.
S-07	One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.
S-17	Surrogate recovery is outside of control limits. Data validation is not affected since all associated results are less than the reporting limit and bias is on the high side.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.
V-06	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
V-35	Initial calibration verification (ICV) did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
V-36	Initial calibration verification (ICV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
Z-01	Matrix Spike and Matrix Spike Duplicate recoveries are outside of control limits. Analysis is in control based on Laboratory Fortified Blank and Post Digestion Spike recoveries.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
Draft Method 1633 in Soil	
Perfluorobutanoic acid (PFBA)	NH-P,NY,PA,WV
Perfluoropentanoic acid (PFPeA)	NH-P,NY,PA,WV
Perfluorohexanoic acid (PFHxA)	NH-P,NY,PA,WV
Perfluoroheptanoic acid (PFHpA)	NH-P,NY,PA,WV
Perfluorooctanoic acid (PFOA)	NH-P,NY,PA,WV
Perfluorononanoic acid (PFNA)	NH-P,NY,PA,WV
Perfluorodecanoic acid (PFDA)	NH-P,NY,PA,WV
Perfluoroundecanoic acid (PFUnA)	NH-P,NY,PA,WV
Perfluorododecanoic acid (PFDoA)	NH-P,NY,PA,WV
Perfluorotridecanoic acid (PFTrDA)	NH-P,NY,PA,WV
Perfluorotetradecanoic acid (PFTeDA)	NH-P,PA,WV
Perfluorobutanesulfonic acid (PFBS)	NH-P,PA,WV
Perfluoropentanesulfonic acid (PFPeS)	NH-P,PA,WV
Perfluorohexanesulfonic acid (PFHxS)	NH-P,PA,WV
Perfluoroheptanesulfonic acid (PFHpS)	NH-P,PA,WV
Perfluorooctanesulfonic acid (PFOS)	NH-P,NY,PA,WV
Perfluorononanesulfonic acid (PFNS)	NH-P,PA,WV
Perfluorodecanesulfonic acid (PFDS)	NH-P,PA,WV
Perfluorododecanesulfonic acid (PFDoS)	NH-P,PA,WV
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	NH-P,PA,WV
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	NH-P,PA,WV
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	NH-P,NY,PA,WV
Perfluorooctanesulfonamide (PFOSA)	NH-P,PA,WV
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	NH-P,PA,WV
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NH-P,PA,WV
N-MeFOSAA (NMeFOSAA)	NH-P,NY,PA,WV
N-EtFOSAA (NEtFOSAA)	NH-P,PA,WV
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	NH-P,PA,WV
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	NH-P,PA,WV
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NH-P,PA,WV
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NH-P,PA,WV
9Cl-PF3ONS (F53B Minor)	NH-P,PA,WV
11Cl-PF3OUdS (F53B Major)	NH-P,PA,WV
3-Perfluoropropyl propanoic acid (FPrPA)(3:3FTCA)	NH-P,PA,WV
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	NH-P,PA,WV
3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTCA)	NH-P,PA,WV
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NH-P,PA,WV
Perfluoro-3-methoxypropanoic acid (PFMPA)	NH-P,PA,WV
Perfluoro-4-methoxybutanoic acid (PFMBA)	NH-P,PA,WV
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NH-P,PA,WV
Draft Method 1633 in Water	
Perfluorobutanoic acid (PFBA)	NH-P,NY,PA,WV,CT
Perfluoropentanoic acid (PFPeA)	NH-P,NY,PA,WV,CT
Perfluorohexanoic acid (PFHxA)	NH-P,NY,PA,WV,CT
Perfluoroheptanoic acid (PFHpA)	NH-P,NY,PA,WV,CT
Perfluorooctanoic acid (PFOA)	NH-P,NY,PA,WV,CT

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
Draft Method 1633 in Water	
Perfluorononanoic acid (PFNA)	NH-P,NY,PA,WV,CT
Perfluorodecanoic acid (PFDA)	NH-P,NY,PA,WV,CT
Perfluoroundecanoic acid (PFUnA)	NH-P,NY,PA,WV,CT
Perfluorododecanoic acid (PFDoA)	NH-P,NY,PA,WV,CT
Perfluorotridecanoic acid (PFTrDA)	NH-P,NY,PA,WV,CT
Perfluorotetradecanoic acid (PFTeDA)	NH-P,NY,PA,WV,CT
Perfluorobutanesulfonic acid (PFBS)	NH-P,NY,PA,WV,CT
Perfluoropentanesulfonic acid (PFPeS)	NH-P,NY,PA,WV,CT
Perfluorohexanesulfonic acid (PFHxS)	NH-P,NY,PA,WV,CT
Perfluoroheptanesulfonic acid (PFHpS)	NH-P,NY,PA,WV,CT
Perfluorooctanesulfonic acid (PFOS)	NH-P,NY,PA,WV,CT
Perfluorononanesulfonic acid (PFNS)	NH-P,PA,WV,CT
Perfluorodecanesulfonic acid (PFDS)	NH-P,PA,WV,CT
Perfluorododecanesulfonic acid (PFDoS)	NH-P,PA,WV,CT
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	NH-P,PA,WV,CT
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	NH-P,NY,PA,WV,CT
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	NH-P,NY,PA,WV,CT
Perfluorooctanesulfonamide (PFOSA)	NH-P,PA,WV,CT
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	NH-P,PA,WV,CT
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	NH-P,PA,WV,CT
N-MeFOSAA (NMeFOSAA)	NH-P,NY,PA,WV,CT
N-EtFOSAA (NEtFOSAA)	NH-P,NY,PA,WV,CT
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	NH-P,PA,WV,CT
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	NH-P,PA,WV,CT
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NH-P,NY,PA,WV,CT
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	NH-P,NY,PA,WV,CT
9Cl-PF3ONS (F53B Minor)	NH-P,NY,PA,WV,CT
11Cl-PF3OUdS (F53B Major)	NH-P,NY,PA,WV,CT
3-Perfluoropropyl propanoic acid (FPrPA)(3:3FTCA)	NH-P,PA,WV,CT
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	NH-P,PA,WV,CT
3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTCA)	NH-P,PA,WV,CT
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	NH-P,NY,PA,WV,CT
Perfluoro-3-methoxypropanoic acid (PFMPA)	NH-P,NY,PA,WV,CT
Perfluoro-4-methoxybutanoic acid (PFMBA)	NH-P,PA,WV,CT
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NH-P,PA,WV,CT
SW-846 6010D in Soil	
Aluminum	CT,NH,NY,ME,VA,NC
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Calcium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Cobalt	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010D in Soil	
Iron	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,ME,VA,NC
Magnesium	CT,NH,NY,ME,VA,NC
Manganese	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Potassium	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Sodium	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 6010D in Water	
Aluminum	CT,NH,NY,ME,VA,NC
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,RI,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Calcium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Cobalt	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Iron	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,ME,VA,NC
Magnesium	CT,NH,NY,ME,VA,NC
Manganese	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Potassium	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Sodium	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8081B in Soil	
alpha-Chlordane	NC
alpha-Chlordane [2C]	NC
gamma-Chlordane	NC
gamma-Chlordane [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Soil	
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
SW-846 8081B in Water	
alpha-Chlordane	NC
alpha-Chlordane [2C]	NC
gamma-Chlordane	NC
gamma-Chlordane [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Water	
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,NC,ME,VA,PA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1221	CT,NH,NY,NC,ME,VA,PA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1232	CT,NH,NY,NC,ME,VA,PA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1242	CT,NH,NY,NC,ME,VA,PA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1248	CT,NH,NY,NC,ME,VA,PA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1254	CT,NH,NY,NC,ME,VA,PA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA,PA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Soil	
Aroclor-1260	CT,NH,NY,NC,ME,VA,PA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1262	NH,NY,NC,ME,VA,PA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA,PA
Aroclor-1268	NH,NY,NC,ME,VA,PA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA,PA
SW-846 8082A in Water	
Aroclor-1016	CT,NH,NY,NC,ME,VA,PA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1221	CT,NH,NY,NC,ME,VA,PA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1232	CT,NH,NY,NC,ME,VA,PA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1242	CT,NH,NY,NC,ME,VA,PA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1248	CT,NH,NY,NC,ME,VA,PA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1254	CT,NH,NY,NC,ME,VA,PA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1260	CT,NH,NY,NC,ME,VA,PA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1262	NH,NY,NC,ME,VA,PA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA,PA
Aroclor-1268	NH,NY,NC,ME,VA,PA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA,PA
SW-846 8260D in Soil	
Acetone	CT,NH,NY,ME,VA
Benzene	CT,NH,NY,ME,VA
Bromochloromethane	NH,NY,ME,VA
Bromodichloromethane	CT,NH,NY,ME,VA
Bromoform	CT,NH,NY,ME,VA
Bromomethane	CT,NH,NY,ME,VA
2-Butanone (MEK)	CT,NH,NY,ME,VA
n-Butylbenzene	CT,NH,NY,ME,VA
sec-Butylbenzene	CT,NH,NY,ME,VA
tert-Butylbenzene	CT,NH,NY,ME,VA
Carbon Disulfide	CT,NH,NY,ME,VA
Carbon Tetrachloride	CT,NH,NY,ME,VA
Chlorobenzene	CT,NH,NY,ME,VA
Chlorodibromomethane	CT,NH,NY,ME,VA
Chloroethane	CT,NH,NY,ME,VA
Chloroform	CT,NH,NY,ME,VA
Chloromethane	CT,NH,NY,ME,VA
Cyclohexane	NY,ME
1,2-Dibromo-3-chloropropane (DBCP)	NY,ME
1,2-Dibromoethane (EDB)	NH,NY

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Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260D in Soil	
1,2-Dichlorobenzene	CT,NH,NY,ME,VA
1,3-Dichlorobenzene	CT,NH,NY,ME,VA
1,4-Dichlorobenzene	CT,NH,NY,ME,VA
Dichlorodifluoromethane (Freon 12)	NH,NY,ME,VA
1,1-Dichloroethane	CT,NH,NY,ME,VA
1,2-Dichloroethane	CT,NH,NY,ME,VA
1,1-Dichloroethylene	CT,NH,NY,ME,VA
cis-1,2-Dichloroethylene	CT,NH,NY,ME,VA
trans-1,2-Dichloroethylene	CT,NH,NY,ME,VA
1,2-Dichloropropane	CT,NH,NY,ME,VA
cis-1,3-Dichloropropene	CT,NH,NY,ME,VA
trans-1,3-Dichloropropene	CT,NH,NY,ME,VA
1,4-Dioxane	NY,ME
Ethylbenzene	CT,NH,NY,ME,VA
Hexachlorobutadiene	NH,NY,ME,VA
2-Hexanone (MBK)	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl Acetate	NY,ME
Methyl tert-Butyl Ether (MTBE)	NY,ME,VA
Methyl Cyclohexane	NY
Methylene Chloride	CT,NH,NY,ME,VA
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,ME,VA
Naphthalene	NH,NY,ME,VA
n-Propylbenzene	NH,NY,ME
Styrene	CT,NH,NY,ME,VA
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME,VA
Tetrachloroethylene	CT,NH,NY,ME,VA
Toluene	CT,NH,NY,ME,VA
1,2,3-Trichlorobenzene	NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME,VA
1,1,1-Trichloroethane	CT,NH,NY,ME,VA
1,1,2-Trichloroethane	CT,NH,NY,ME,VA
Trichloroethylene	CT,NH,NY,ME,VA
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME,VA
1,2,3-Trichloropropane	NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
1,3,5-Trimethylbenzene	CT,NH,NY,ME,VA
Vinyl Chloride	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
Xylenes (total)	NH,NY,ME
SW-846 8270E in Product/Solid	
Acenaphthene	CT,NY,NH,NC,ME,VA
Acenaphthylene	CT,NY,NH,NC,ME,VA
Acetophenone	NY,NH,NC,ME,VA

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Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270E in Product/Solid	
Aniline	NY,NH,NC,ME,VA
Anthracene	CT,NY,NH,NC,ME,VA
Benzo(a)anthracene	CT,NY,NH,NC,ME,VA
Benzo(a)pyrene	CT,NY,NH,NC,ME,VA
Benzo(b)fluoranthene	CT,NY,NH,NC,ME,VA
Benzo(g,h,i)perylene	CT,NY,NH,NC,ME,VA
Benzo(k)fluoranthene	CT,NY,NH,NC,ME,VA
Bis(2-chloroethoxy)methane	CT,NY,NH,NC,ME,VA
Bis(2-chloroethyl)ether	CT,NY,NH,NC,ME,VA
Bis(2-chloroisopropyl)ether	CT,NY,NH,NC,ME,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NH,NC,ME,VA
4-Bromophenylphenylether	CT,NY,NH,NC,ME,VA
Butylbenzylphthalate	CT,NY,NH,NC,ME,VA
Carbazole	NC
4-Chloroaniline	CT,NY,NH,NC,ME,VA
4-Chloro-3-methylphenol	CT,NY,NH,NC,ME,VA
2-Chloronaphthalene	CT,NY,NH,NC,VA
2-Chlorophenol	CT,NY,NH,NC,ME,VA
4-Chlorophenylphenylether	CT,NY,NH,NC,ME,VA
Chrysene	CT,NY,NH,NC,ME,VA
Dibenz(a,h)anthracene	CT,NY,NH,NC,ME,VA
Dibenzofuran	CT,NY,NH,NC,ME,VA
Di-n-butylphthalate	CT,NY,NH,NC,ME,VA
1,2-Dichlorobenzene	NY,NH,NC,ME,VA
1,3-Dichlorobenzene	NY,NH,NC,ME,VA
1,4-Dichlorobenzene	NY,NH,NC,ME,VA
3,3-Dichlorobenzidine	CT,NY,NH,NC,ME,VA
2,4-Dichlorophenol	CT,NY,NH,NC,ME,VA
Diethylphthalate	CT,NY,NH,NC,ME,VA
2,4-Dimethylphenol	CT,NY,NH,NC,ME,VA
Dimethylphthalate	CT,NY,NH,NC,ME,VA
4,6-Dinitro-2-methylphenol	CT,NY,NH,NC,ME,VA
2,4-Dinitrophenol	CT,NY,NH,NC,ME,VA
2,4-Dinitrotoluene	CT,NY,NH,NC,ME,VA
2,6-Dinitrotoluene	CT,NY,NH,NC,ME,VA
Di-n-octylphthalate	CT,NY,NH,NC,ME,VA
Fluoranthene	CT,NY,NH,NC,ME,VA
Fluorene	NY,NH,NC,ME,VA
Hexachlorobenzene	CT,NY,NH,NC,ME,VA
Hexachlorobutadiene	CT,NY,NH,NC,ME,VA
Hexachlorocyclopentadiene	CT,NY,NH,NC,ME,VA
Hexachloroethane	CT,NY,NH,NC,ME,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,NC,ME,VA
Isophorone	CT,NY,NH,NC,ME,VA
1-Methylnaphthalene	NC
2-Methylnaphthalene	CT,NY,NH,NC,ME,VA
2-Methylphenol	CT,NY,NH,NC,ME,VA

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Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270E in Product/Solid	
3/4-Methylphenol	CT,NY,NH,NC,ME,VA
Naphthalene	CT,NY,NH,NC,ME,VA
2-Nitroaniline	CT,NY,NH,NC,ME,VA
3-Nitroaniline	CT,NY,NH,NC,ME,VA
4-Nitroaniline	CT,NY,NH,NC,ME,VA
Nitrobenzene	CT,NY,NH,NC,ME,VA
2-Nitrophenol	CT,NY,NH,NC,ME,VA
4-Nitrophenol	CT,NY,NH,NC,ME,VA
N-Nitrosodi-n-propylamine	CT,NY,NH,NC,ME,VA
Pentachlorophenol	CT,NY,NH,NC,ME,VA
Phenanthrene	CT,NY,NH,NC,ME,VA
Phenol	CT,NY,NH,NC,ME,VA
Pyrene	CT,NY,NH,NC,ME,VA
Pyridine	CT,NY,NH,NC,ME,VA
1,2,4,5-Tetrachlorobenzene	NY,NC
1,2,4-Trichlorobenzene	CT,NY,NH,NC,ME,VA
2,4,5-Trichlorophenol	CT,NY,NH,NC,ME,VA
2,4,6-Trichlorophenol	CT,NY,NH,NC,ME,VA
2-Fluorophenol	NC
SW-846 8270E in Soil	
1,4-Dioxane	NY,NH
Atrazine	ME,NC
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Acetophenone	NY,NH,ME,NC,VA
Aniline	NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Bis(2-chloroethoxy)methane	CT,NY,NH,ME,NC,VA
Bis(2-chloroethyl)ether	CT,NY,NH,ME,NC,VA
Bis(2-chloroisopropyl)ether	CT,NY,NH,ME,NC,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NH,ME,NC,VA
4-Bromophenylphenylether	CT,NY,NH,ME,NC,VA
Butylbenzylphthalate	CT,NY,NH,ME,NC,VA
Carbazole	NC
4-Chloroaniline	CT,NY,NH,ME,NC,VA
4-Chloro-3-methylphenol	CT,NY,NH,ME,NC,VA
2-Chloronaphthalene	CT,NY,NH,NC,VA
2-Chlorophenol	CT,NY,NH,ME,NC,VA
4-Chlorophenylphenylether	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270E in Soil	
Dibenzofuran	CT,NY,NH,ME,NC,VA
Di-n-butylphthalate	CT,NY,NH,ME,NC,VA
1,2-Dichlorobenzene	NY,NH,ME,NC,VA
1,3-Dichlorobenzene	NY,NH,ME,NC,VA
1,4-Dichlorobenzene	NY,NH,ME,NC,VA
3,3-Dichlorobenzidine	CT,NY,NH,ME,NC,VA
2,4-Dichlorophenol	CT,NY,NH,ME,NC,VA
Diethylphthalate	CT,NY,NH,ME,NC,VA
2,4-Dimethylphenol	CT,NY,NH,ME,NC,VA
Dimethylphthalate	CT,NY,NH,ME,NC,VA
4,6-Dinitro-2-methylphenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrophenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrotoluene	CT,NY,NH,ME,NC,VA
2,6-Dinitrotoluene	CT,NY,NH,ME,NC,VA
Di-n-octylphthalate	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	NY,NH,ME,NC,VA
Hexachlorobenzene	CT,NY,NH,ME,NC,VA
Hexachlorobutadiene	CT,NY,NH,ME,NC,VA
Hexachlorocyclopentadiene	CT,NY,NH,ME,NC,VA
Hexachloroethane	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
Isophorone	CT,NY,NH,ME,NC,VA
1-Methylnaphthalene	NC
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
2-Methylphenol	CT,NY,NH,ME,NC,VA
3/4-Methylphenol	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
2-Nitroaniline	CT,NY,NH,ME,NC,VA
3-Nitroaniline	CT,NY,NH,ME,NC,VA
4-Nitroaniline	CT,NY,NH,ME,NC,VA
Nitrobenzene	CT,NY,NH,ME,NC,VA
2-Nitrophenol	CT,NY,NH,ME,NC,VA
4-Nitrophenol	CT,NY,NH,ME,NC,VA
N-Nitrosodi-n-propylamine	CT,NY,NH,ME,NC,VA
Pentachlorophenol	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Phenol	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA
Pyridine	CT,NY,NH,ME,NC,VA
1,2,4,5-Tetrachlorobenzene	NY,NC
1,2,4-Trichlorobenzene	CT,NY,NH,ME,NC,VA
2,4,5-Trichlorophenol	CT,NY,NH,ME,NC,VA
2,4,6-Trichlorophenol	CT,NY,NH,ME,NC,VA
2-Fluorophenol	NC
SW-846 8270E in Water	

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1,4-Dioxane	NY,NH
Acenaphthene	CT,NY,NC,ME,NH,VA
Acenaphthylene	CT,NY,NC,ME,NH,VA
Acetophenone	NY,NC
Aniline	CT,NY,NC,ME,VA
Anthracene	CT,NY,NC,ME,NH,VA
Benzo(a)anthracene	CT,NY,NC,ME,NH,VA
Benzo(a)pyrene	CT,NY,NC,ME,NH,VA
Benzo(b)fluoranthene	CT,NY,NC,ME,NH,VA
Benzo(g,h,i)perylene	CT,NY,NC,ME,NH,VA
Benzo(k)fluoranthene	CT,NY,NC,ME,NH,VA
Bis(2-chloroethoxy)methane	CT,NY,NC,ME,NH,VA
Bis(2-chloroethyl)ether	CT,NY,NC,ME,NH,VA
Bis(2-chloroisopropyl)ether	CT,NY,NC,ME,NH,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NC,ME,NH,VA
4-Bromophenylphenylether	CT,NY,NC,ME,NH,VA
Butylbenzylphthalate	CT,NY,NC,ME,NH,VA
Carbazole	NC
4-Chloroaniline	CT,NY,NC,ME,NH,VA
4-Chloro-3-methylphenol	CT,NY,NC,ME,NH,VA
2-Chloronaphthalene	CT,NY,NC,ME,NH,VA
2-Chlorophenol	CT,NY,NC,ME,NH,VA
4-Chlorophenylphenylether	CT,NY,NC,ME,NH,VA
Chrysene	CT,NY,NC,ME,NH,VA
Dibenz(a,h)anthracene	CT,NY,NC,ME,NH,VA
Dibenzofuran	CT,NY,NC,ME,NH,VA
Di-n-butylphthalate	CT,NY,NC,ME,NH,VA
1,2-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,3-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,4-Dichlorobenzene	CT,NY,NC,ME,NH,VA
3,3-Dichlorobenzidine	CT,NY,NC,ME,NH,VA
2,4-Dichlorophenol	CT,NY,NC,ME,NH,VA
Diethylphthalate	CT,NY,NC,ME,NH,VA
2,4-Dimethylphenol	CT,NY,NC,ME,NH,VA
Dimethylphthalate	CT,NY,NC,ME,NH,VA
4,6-Dinitro-2-methylphenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrophenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrotoluene	CT,NY,NC,ME,NH,VA
2,6-Dinitrotoluene	CT,NY,NC,ME,NH,VA
Di-n-octylphthalate	CT,NY,NC,ME,NH,VA
Fluoranthene	CT,NY,NC,ME,NH,VA
Fluorene	NY,NC,ME,NH,VA
Hexachlorobenzene	CT,NY,NC,ME,NH,VA
Hexachlorobutadiene	CT,NY,NC,ME,NH,VA
Hexachlorocyclopentadiene	CT,NY,NC,ME,NH,VA
Hexachloroethane	CT,NY,NC,ME,NH,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NC,ME,NH,VA

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CERTIFICATIONS

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Analyte	Certifications
SW-846 8270E in Water	
Isophorone	CT,NY,NC,ME,NH,VA
1-Methylnaphthalene	NC
2-Methylnaphthalene	CT,NY,NC,ME,NH,VA
2-Methylphenol	CT,NY,NC,NH,VA
3/4-Methylphenol	CT,NY,NC,NH,VA
Naphthalene	CT,NY,NC,ME,NH,VA
2-Nitroaniline	CT,NY,NC,ME,NH,VA
3-Nitroaniline	CT,NY,NC,ME,NH,VA
4-Nitroaniline	CT,NY,NC,ME,NH,VA
Nitrobenzene	CT,NY,NC,ME,NH,VA
2-Nitrophenol	CT,NY,NC,ME,NH,VA
4-Nitrophenol	CT,NY,NC,ME,NH,VA
N-Nitrosodi-n-propylamine	CT,NY,NC,ME,NH,VA
Pentachlorophenol	CT,NY,NC,ME,NH,VA
Phenanthrene	CT,NY,NC,ME,NH,VA
Phenol	CT,NY,NC,ME,NH,VA
Pyrene	CT,NY,NC,ME,NH,VA
Pyridine	CT,NY,NC,ME,NH,VA
1,2,4,5-Tetrachlorobenzene	NY,NC
1,2,4-Trichlorobenzene	CT,NY,NC,ME,NH,VA
2,4,5-Trichlorophenol	CT,NY,NC,ME,NH,VA
2,4,6-Trichlorophenol	CT,NY,NC,ME,NH,VA
2-Fluorophenol	NC
SW-846 9014 in Soil	
Cyanide	NY,CT,NC,ME,NH,VA

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Code	Description	Number	Expires
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2025
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2025
RI	Rhode Island Department of Health	LAO00373	12/30/2024
NC	North Carolina Div. of Water Quality	652	12/31/2024
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2024
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2024
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2025
WV	West Virginia DEP Division of Water and Waste Management	419	08/31/2024

Pace Analytical

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Company Name: NYS DEC | Consultant: NYSDEC

Consultant Address: 21 South Putt Corners Rd, 12561

Consultant Phone: 845-256-3118

Callout Project Name: Tivoli Memorial Park

Project Location: 19 Pine St Tivoli NY

Callout Number:

Site/Spill Number: 314135

Project Manager: Ryan Richard

Pace Analytical Quote Name/Number:

Invoice Recipient:

Sampled By: Ryan Richard

Requested Turnaround Time

DEC Standard 30-calendar day [ ]

Due Date:

Rush (Prior Approval Required)

1-Day [ ] 2-Day [ ] 3-Day [ ]

4-Day [ ] 5-Day [ ] 10-Day [X]

Data Delivery

Format: PDF [X] EXCEL [X]

Other:

CLP Like (Level 4) Data Pkg Required: [ ]

Email To: ryan.richard@dec.ny.gov

Fax To #:

ANALYSIS REQUESTED (Circle Requested Analyses/Reporting List)

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1] Matrix Code	Conc Code	8260: [DER TCL] / Oxygenates / CP-51	8270 [DER TCL] / CP-51	[1,4-Dioxane SIM]	[8082 PCBs]	[8081 Pesticide]	8151 Herbicide	[TAL Total Metals]	TCLP RCRA 8 Metals	[PFAS 1633]	PFAS 537 ID	9010C Cyanide	# of Containers	[2] Preservation Code	[3] Container Code
1	CG-1	5/8/24	10:15	X		S								X							
2	CG-2	5/8/24	10:40	X		S		X	X	X	X	X	X	X	X	X					
3	B1	5/8/24	1:24pm		X	S								X							
4	B1A		1:27pm		X	S		X	X	X	X	X	X	X	X	X					
5	SB1		2:06pm		X	S								X							
6	SB1A		2:19pm		X	S		X	X	X	X	X	X	X	X	X					
7	SB1A MS		2:15pm		X	S		X	X	X	X	X	X	X	X	X					
8	SB1A MSD		3:10pm		X	S		X	X	X	X	X	X	X	X	X					
9	SB2		2:34pm		X	S								X							
10	SB2A	↓	2:34pm		X	S								X							

Dissolved Metals Samples
[ ] Field Filtered
[ ] Lab to Filter

Orthophosphate Samples
[ ] Field Filtered
[ ] Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:
KAM 5/10/24.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

	Date/Time
Relinquished by: (signature)	5/09/24 16:33
Received by: (signature) PACE	5/9/24 1037
Relinquished by: (signature) PACE	5/9/24 1120
Received by: (signature)	5/9/24 1450
Relinquished by: (signature)	5/9/24 1622
Received by: (signature) Paul Marcella	5/9/24 1645

Program & Regulatory Information

[ ] AWQ STDS
[ ] NYC Sewer Discharge
[ ] Part 360 GW (Landfill)
[X] NY Restricted Use
[X] NY Unrestricted Use
[ ] NY Part 375
[ ] NY TOGS
[ ] NY CP-51

Other:

Deliverables

[ ] Enhanced Data Package
[X] NYSDEC EQuIS EDD
[ ] EQuIS (Standard) EDD
[ ] NY Regulatory EDD
[ ] NY Regs Hits-Only EDD

Other:

Project Entity

[ ] Government [ ] Municipality [ ] MWRA [ ] WRTA
[ ] Federal [ ] 21 J [ ] School
[ ] City [ ] Brownfield [ ] MBTA

Other

[ ] Chromatogram
[ ] *AIHA-LAP,LLC*

PCB ONLY
[ ] Soxhlet
[ ] Non Soxhlet

AAL 5/10/24 pg 2 of 3

AAL 5/10/24 pg 3 of 3

Page 180 of 184

Table of Contents

Pace Analytical*

Phone: 413-525-2332
39 Spruce St
East Longmeadow, MA 01028

24E1437

https://www.pacelabs.com/

Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

Contact: https://www.pacelabs.com/contact-us/contact-environmental-sciences/

Company Name: NYS DEC Consultant: N/A NYSDEC
Consultant Address: ~~###~~ 21 South Putt Corners Rd, New Paltz NY 12561
Consultant Phone: 845-256-3118
Callout Project Name: Tivoli Memorial Park
Project Location: 319 Pine St, Tivoli, NY
Callout Number:
Site/Spill Number: 314135
Project Manager: Ryan Richard
Pace Analytical Quote Name/Number:
Invoice Recipient:
Sampled By: Ryan Richard

Requested Turnaround Time
DEC Standard 30-calendar day [1]
Due Date:

Rush (Prior Approval Required)
1-Day [ ] 2-Day [ ] 3-Day [ ]
4-Day [ ] 5-Day [ ] 10-Day [X]

Data Delivery
Format: PDF [X] EXCEL [X]
Other:
CLP Like (Level 4) Data Pkg Required: [ ]
Email To: ryan.richard@dec.ny.gov
Fax To #:

ANALYSIS REQUESTED (Circle Requested Analyses/Reporting List)

Pace Analytical Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	8260: DER TCL / Oxygenates / CP-51	8270: DER TCL / CP-51	1,4-Dioxane SIM	8082 PCBs	8081 Pesticide	8151 Herbicide	TAL Total Metals	TCLP RCRA 8 Metals	PFAS 1633	PFAS 537 ID	Cyanide	# of Containers	[2] Preservation Code	[3] Container Code
9	SB3	5/8/24	2:42pm		X	S								X							
10	SB3A		2:42pm		X	S								X							
11	SB4		2:53pm		X	S								X							
12	SB4A		2:53pm		X	S		X	X	X	X	X	X	X	X	X	X	X			
13	SB5		3:09pm		X	S								X							
14	SB5A		3:15pm		X	S								X							
15	SB6		3:20pm		X	S								X							
16	SB6A		3:22pm		X	S								X							
17	SB7		3:39		X	S		X	X	X	X	X	X	X	X	X	X	X			
18	SB7A		3:57		X	S								X							

Comments:

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
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Dissolved Metals Samples
[ ] Field Filtered
[ ] Lab to Filter

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[ ] Field Filtered
[ ] Lab to Filter

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	Date/Time:
Relinquished by: (signature)	5/09 / 10:33
Received by: (signature) PACE	5/9/24 1033
Relinquished by: (signature) PACE	5/9/24 1120
Received by: (signature)	5/9/24 1450
Relinquished by: (signature)	5/9/24 1622
Received by: (signature)	5/9/24 1645

Program & Regulatory Information
[ ] AWQ STDS
[ ] NYC Sewer Discharge
[ ] Part 360 GW (Landfill)
[X] NY Restricted Use
[X] NY Unrestricted Use
[ ] NY Part 375
[ ] NY TOGS
[ ] NY CP-51
Other:

Deliverables
[ ] Enhanced Data Package
[X] NYSDEC EQuIS EDD
[ ] EQuIS (Standard) EDD
[ ] NY Regulatory EDD
[ ] NY Regs Hits-Only EDD
Other:

Project Entity
[ ] Government [ ] Municipality [ ] MWRA [ ] WRTA
[ ] Federal [ ] 21 J [ ] School
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Other
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[ ] AIHA-LAP,LLC

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Company Name: NYS DEC Consultant: NYS DEC
Consultant Address: 21 S Putt Corners Rd New Paltz
Consultant Phone: 845-256-3118
Callout Project Name:
Project Location: 19 Pine St Tivoli, NY
Callout Number:
Site/Spill Number: 314135
Project Manager: Ryan Richard
Pace Analytical Quote Name/Number:
Invoice Recipient:
Sampled By:

Requested Turnaround Time
DEC Standard 30-calendar day [ ]
Due Date:

Rush (Prior Approval Required)
1-Day [ ] 2-Day [ ] 3-Day [ ]
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19	DUP	5/8/24	3:45pm					X	X	X	X	X	X	X	X	X		X			
20	Trip Blank							X													

ANALYSIS REQUESTED (Circle Requested Analyses/Reporting List)

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[ ] Field Filtered
[ ] Lab to Filter

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[ ] AIHA-LAP,LLC

PCB ONLY
[ ] Soxhlet
[ ] Non Soxhlet

AAL 5/10/24 0600

5/10/24 AAL 0730

2.1/3.7a

12-0-5

Pace	DC#_Title: ENV-FRM-ELON-0001 v07_Sample Receiving Checklist
	Effective Date: 07/13/2023

Log In Back-Sheet

Client NYSDEC

Project Tivoli Memorial Park

MCP/RCP Required N/A

Deliverable Package Requirement N/A

Location 19 Pine St Tivoli NY

PWSID# (When Applicable) N/A

Arrival Method:

Courier ☑ Fed Ex ☐ Walk In ☐ Other ☐

Received By / Date / Time AM 5/10/24 829

Back-Sheet By / Date / Time JA 5/10/24 1424

Temperature Method gun #6

Temp < 6° C Actual Temperature 2.1/3.7

Rush Samples: Yes / (No) Notify

Short Hold: Yes / (No) Notify

Notes regarding Samples/COC outside of SOP:

*SUMPC 1T 2oz JLR received empty

POSSIBLE limited Volume.

Login Sample Receipt Checklist – (Rejection Criteria Listing – Using Acceptance Policy) Any False statement will be brought to the attention of the Client – True or False

	True	False
Received on Ice	☑	☐
Received in Cooler	☑	☐
Custody Seal DATE TIME	☐	☑
COC Relinquished	☑	☐
COC/Samples Labels Agree	☑	☐
All Samples in Good Condition	☑	☐
Samples Received Within Holding Time	☑	☐
Is there enough Volume	☑	☐
Proper Media/Container Used	☑	☐
Sporting Samples Required	☐	☑
MS/MSD	☑	☐ (N/A)
Trip Blanks	☑	☐
Lab to Filters	☐	☑
COC Legible	☑	☐
COC Included (Check all included)		
Client ☑ Analysis ☑ Sampler Name ☑		
Project ☑ IDs ☑ Collection Date/Time ☑		
All Samples Proper pH (N/A)	☐	☐

Additional Container Notes

Note: West Virginia requires all samples to have their temperature taken. Note any outliers.

Qualtrax ID: 120836

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-ELON-0001 v07_Sample Receiving Checklist

Effective Date: 07/13/2023

Sample		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
16oz Amb/Clear	Soils Jars (Circle Amb/Clear)		1		1		3						1					1		1	
8oz Amb/Clear																					
4oz Amb/Clear		1		1		1		1	1	1	1	1		1	1	1	1		1		
2oz Amb/Clear			1		1		3						1					1		1	
Unpreserved	Ambers 1 Liter																				
HCL																					
Sulfuric																					
Sulfuric	Ambers 250mL																				
Phosphoric																					
HCl																					
Unpreserved	Ambers 100mL																				
Unpreserved	Plastics 1 Liter																				
Sulfuric																					
Unpreserved	Plastics 500mL																				
Sulfuric																					
Unpreserved	Plastics 250mL																				
Trizma																					
Sulfuric																					
Nitric																					
NaOH																					
Ammonium Acetate																					
NaOH/Zinc																					
Unpreserved	VOA Vials																				
HCl																					
MeOH		1			1		3						1					1		1	4
D.I. Water																					
BiSulfate		2			2		6						2					2		2	2
Col/Bact	Other/Fill in																				
Other		1			1		3						1					1		1	

VOA

SAMPLE DATA

1 - FORM I
ANALYSIS DATA SHEET

CG-2

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-02	File ID:	G24V13410.D
Sampled:	05/08/24 10:40	Prepared:	05/13/24 04:00	Analyzed:	05/13/24 07:42
Solids:	62.99	Preparation:	SW-846 5035	Dilution:	1
Initial/Final:	5.14 g / 10 mL				
Batch:	B374129	Sequence:	S104464	Calibration:	2400276	Instrument:	GCMSVOA7

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
67-64-1	Acetone		0.080	0.15	
71-43-2	Benzene		0.00097	0.0031	
74-97-5	Bromochloromethane		0.0013	0.0031	
75-27-4	Bromodichloromethane		0.00079	0.0031	
75-25-2	Bromoform		0.0014	0.0031	
74-83-9	Bromomethane		0.0027	0.015	
78-93-3	2-Butanone (MEK)		0.013	0.062	
104-51-8	n-Butylbenzene		0.0011	0.0031	
135-98-8	sec-Butylbenzene		0.0012	0.0031	
98-06-6	tert-Butylbenzene		0.0011	0.0031	
75-15-0	Carbon Disulfide		0.016	0.031	
56-23-5	Carbon Tetrachloride		0.00090	0.0031	
108-90-7	Chlorobenzene		0.00074	0.0031	
124-48-1	Chlorodibromomethane		0.0010	0.0015	
75-00-3	Chloroethane		0.0022	0.031	
67-66-3	Chloroform		0.0010	0.0062	
74-87-3	Chloromethane		0.0019	0.015	
110-82-7	Cyclohexane		0.0063	0.015	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.0012	0.0031	
106-93-4	1,2-Dibromoethane (EDB)		0.0011	0.0015	
95-50-1	1,2-Dichlorobenzene		0.00099	0.0031	
541-73-1	1,3-Dichlorobenzene		0.00089	0.0031	
106-46-7	1,4-Dichlorobenzene		0.00096	0.0031	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.0014	0.031	V-05
75-34-3	1,1-Dichloroethane		0.00094	0.0031	
107-06-2	1,2-Dichloroethane		0.0011	0.0031	
75-35-4	1,1-Dichloroethylene		0.0015	0.0062	
156-59-2	cis-1,2-Dichloroethylene		0.0011	0.0031	
156-60-5	trans-1,2-Dichloroethylene		0.00092	0.0031	
78-87-5	1,2-Dichloropropane		0.00095	0.0031	

1 - FORM I
ANALYSIS DATA SHEET

CG-2

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-02	File ID:	G24V13410.D
Sampled:	05/08/24 10:40	Prepared:	05/13/24 04:00	Analyzed:	05/13/24 07:42
Solids:	62.99	Preparation:	SW-846 5035	Dilution:	1
Initial/Final:	5.14 g / 10 mL				
Batch:	B374129	Sequence:	S104464	Calibration:	2400276	Instrument:	GCMSVOA7

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
10061-01-5	cis-1,3-Dichloropropene		0.0012	0.0015	
10061-02-6	trans-1,3-Dichloropropene		0.0012	0.0015	
100-41-4	Ethylbenzene		0.00089	0.0031	
591-78-6	2-Hexanone (MBK)		0.011	0.031	
98-82-8	Isopropylbenzene (Cumene)		0.0012	0.0031	
99-87-6	p-Isopropyltoluene (p-Cymene)		0.0010	0.0031	
79-20-9	Methyl Acetate		0.0021	0.0031	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.0014	0.0062	
108-87-2	Methyl Cyclohexane		0.0011	0.0031	
75-09-2	Methylene Chloride		0.0014	0.031	
108-10-1	4-Methyl-2-pentanone (MIBK)		0.014	0.031	
91-20-3	Naphthalene		0.0015	0.0062	
103-65-1	n-Propylbenzene		0.0010	0.0031	
100-42-5	Styrene		0.00098	0.0031	
79-34-5	1,1,2,2-Tetrachloroethane		0.0012	0.0015	
127-18-4	Tetrachloroethylene		0.0013	0.0031	
108-88-3	Toluene		0.00091	0.0031	
87-61-6	1,2,3-Trichlorobenzene		0.0010	0.0031	
120-82-1	1,2,4-Trichlorobenzene		0.0010	0.0031	
71-55-6	1,1,1-Trichloroethane		0.00092	0.0031	
79-00-5	1,1,2-Trichloroethane		0.00080	0.0031	
79-01-6	Trichloroethylene		0.0012	0.0031	
75-69-4	Trichlorofluoromethane (Freon 11)		0.0018	0.015	
96-18-4	1,2,3-Trichloropropane		0.0013	0.0031	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.0016	0.015	
95-63-6	1,2,4-Trimethylbenzene		0.0015	0.0031	
108-67-8	1,3,5-Trimethylbenzene		0.0012	0.0031	
75-01-4	Vinyl Chloride		0.0012	0.015	
179601-23-1	m+p Xylene		0.0022	0.0062	
95-47-6	o-Xylene		0.0010	0.0031	

1 - FORM I
ANALYSIS DATA SHEET

CG-2

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-02	File ID:	G24V13410.D
Sampled:	05/08/24 10:40	Prepared:	05/13/24 04:00	Analyzed:	05/13/24 07:42
Solids:	62.99	Preparation:	SW-846 5035	Dilution:	1
Initial/Final:	5.14 g / 10 mL				
Batch:	B374129	Sequence:	S104464	Calibration:	2400276
				Instrument:	GCMSVOA7

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
1330-20-7	Xylenes (total)		0.0031	0.0031	

Quantitation Report (QT Reviewed)

Data Path : X:\1\data\G051324\
Data File : G24V13410.D
Acq On : 13 May 2024 7:42 am
Operator :
Sample : 24E1437-02 Inst : GCMSVOA7
Misc :
ALS Vial : 10 Sample Multiplier: 1

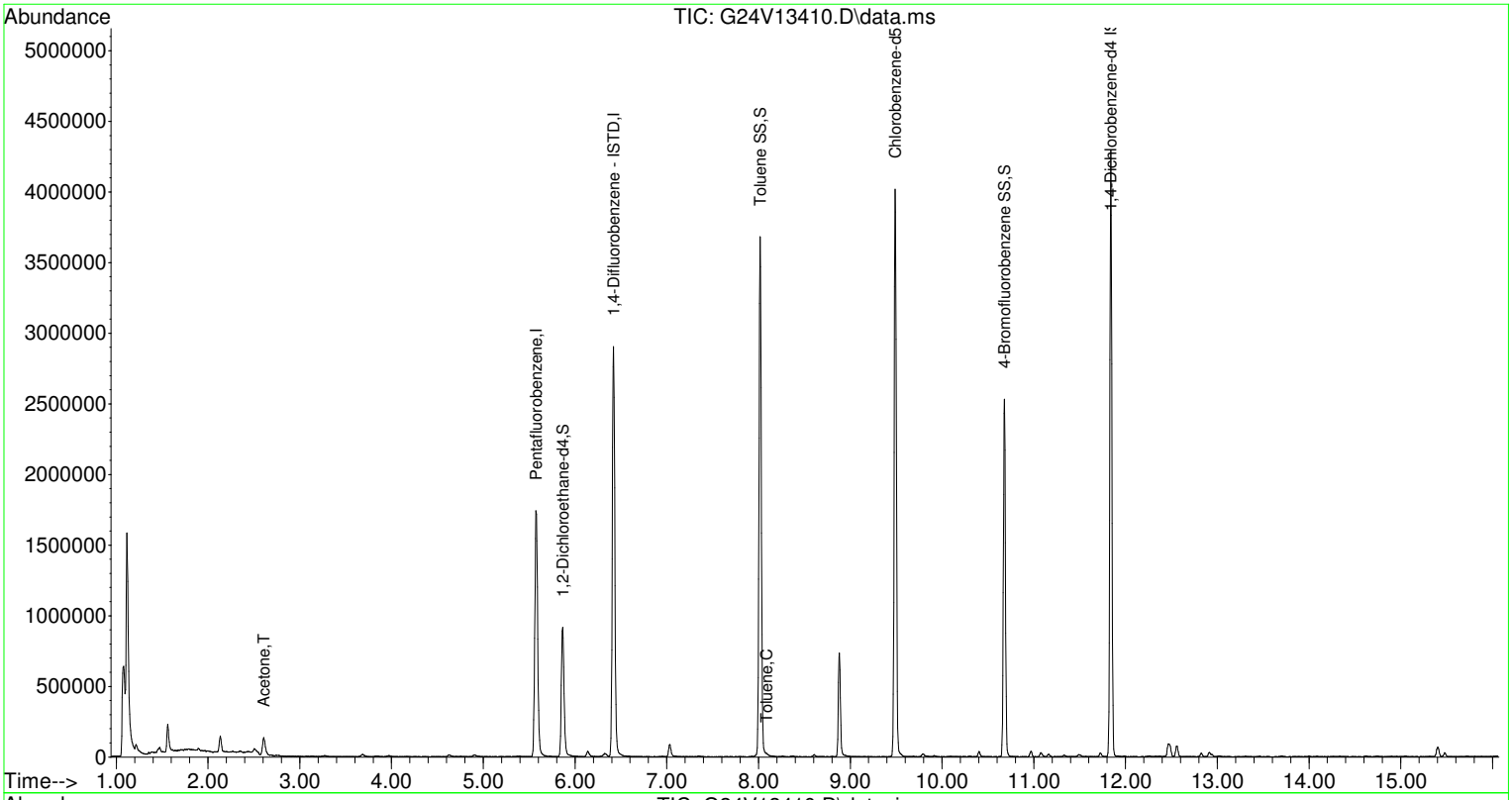
Quant Time: May 13 08:00:36 2024
Quant Method : X:\1\methods\GS030124.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Fri Mar 01 13:48:51 2024
Response via : Initial Calibration

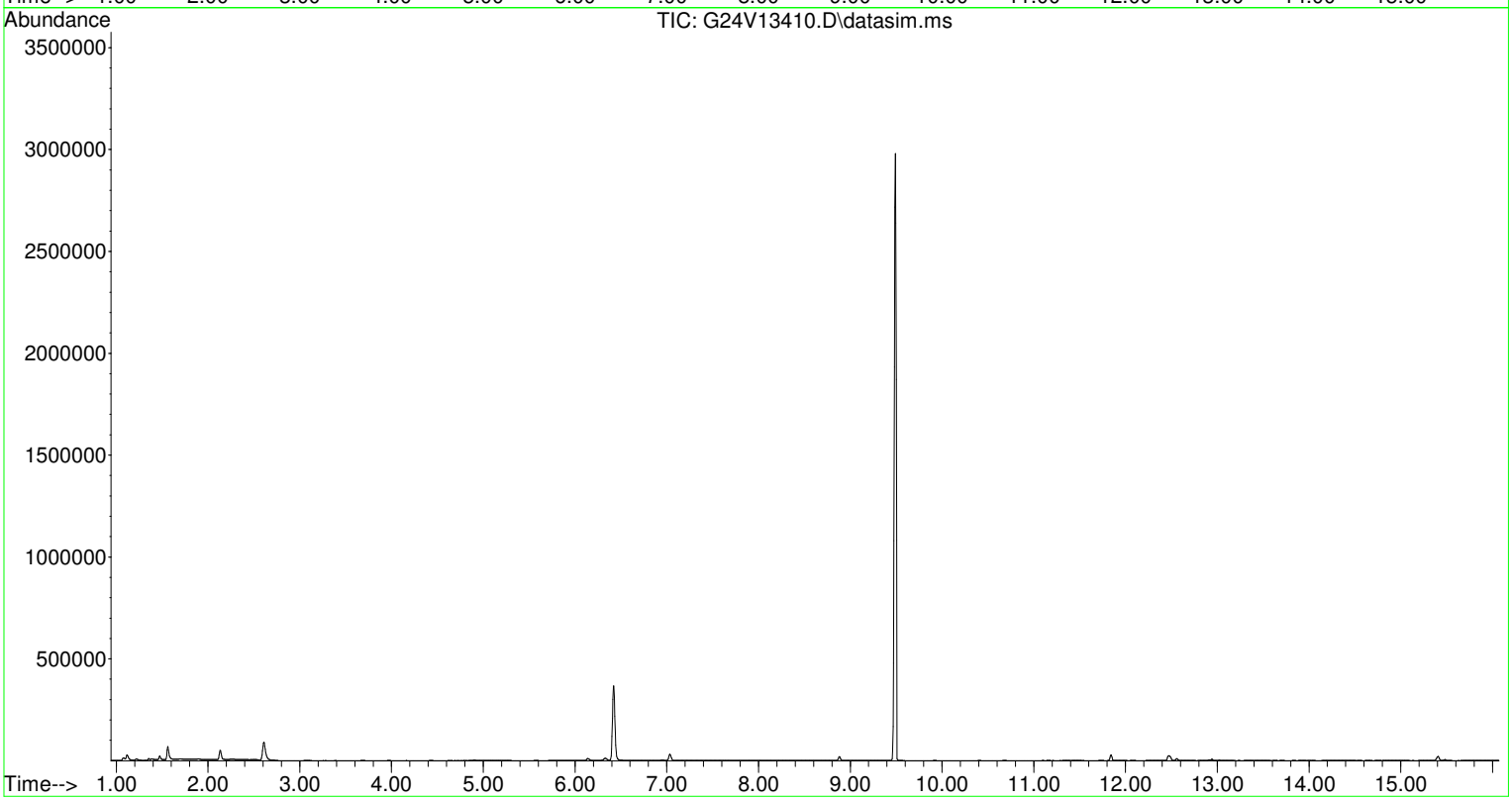
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.574	168	1400603	30.00	ug/L	0.00
49) 1,4-Difluorobenzene - ...	6.420	114	2626443	30.00	ug/L	0.00
72) Chlorobenzene-d5 ISTD	9.488	82	1011883	30.00	ug/L	# 0.00
91) 1,4-Dichlorobenzene-d4...	11.840	152	1114465	30.00	ug/L	-0.01
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	5.866	65	607206	27.69	ug/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 110.76%			
50) Toluene SS	8.016	98	2523219	24.31	ug/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 97.24%			
73) 4-Bromofluorobenzene SS	10.681	95	809854	20.22	ug/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 80.88%			
Target Compounds						Qvalue
14) Acetone	2.605	43	193608	22.87	ug/L	87
63) Toluene	8.088	91	7153	0.09	ug/L	93

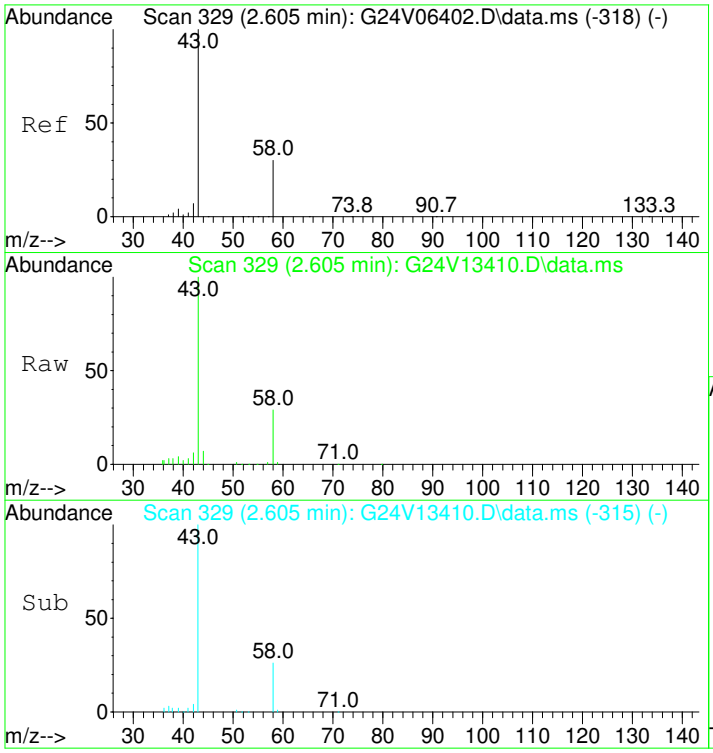
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\1\data\G051324\
Data File : G24V13410.D
Acq On : 13 May 2024 7:42 am
Operator :
Sample : 24E1437-02 Inst : GCMSVOA7
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 13 08:00:36 2024
Quant Method : X:\1\methods\GS030124.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Fri Mar 01 13:48:51 2024
Response via : Initial Calibration



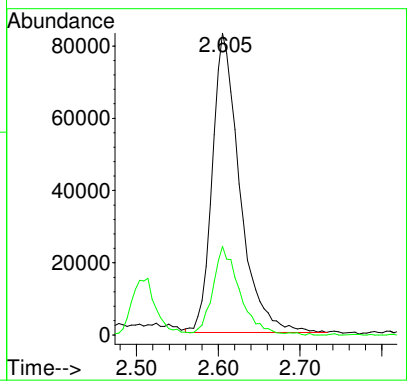


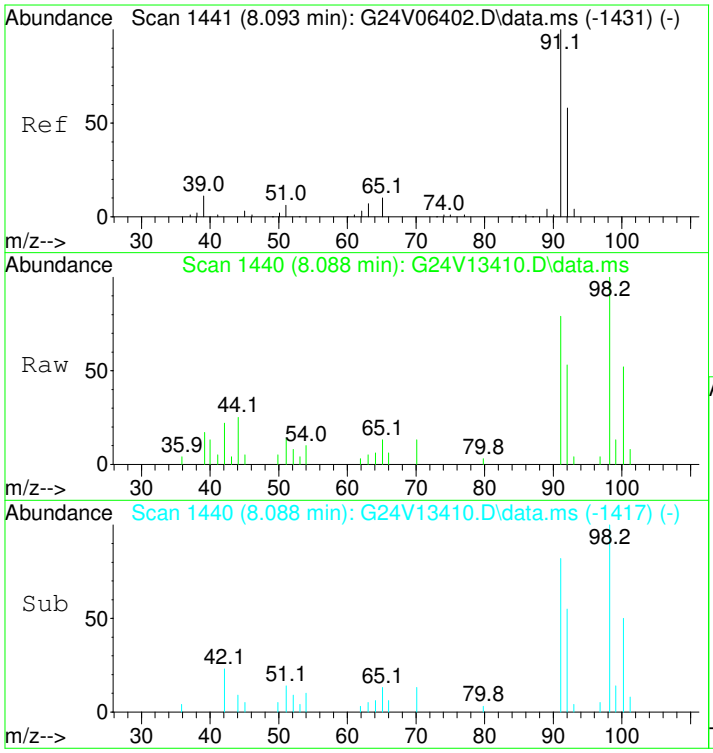


#14
Acetone
Concen: 22.87 ug/L
RT: 2.605 min Scan# 329
Delta R.T. 0.000 min
Lab File: G24V13410.D
Acq: 13 May 2024 7:42 am

Tgt Ion: 43 Resp: 193608

Ion	Ratio	Lower	Upper
43	100		
58	27.2	14.5	54.5

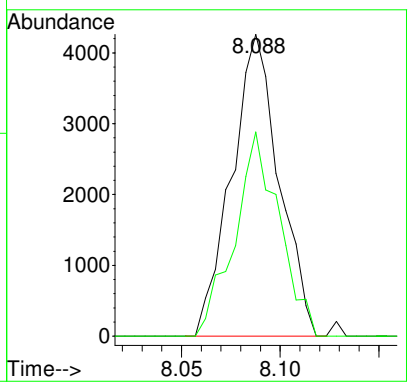




#63
Toluene
Concen: 0.09 ug/L
RT: 8.088 min Scan# 1440
Delta R.T. -0.005 min
Lab File: G24V13410.D
Acq: 13 May 2024 7:42 am

Tgt Ion: 91 Resp: 7153

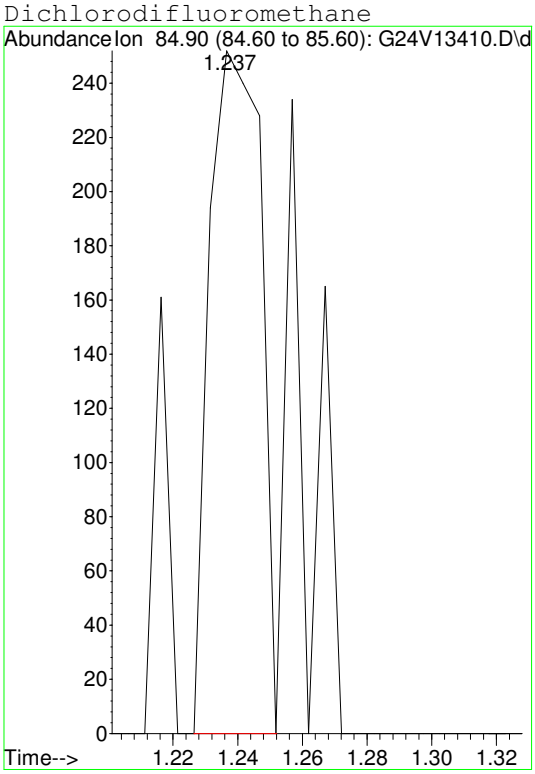
Ion	Ratio	Lower	Upper
91	100		
92	63.5	38.3	78.3



Data Path : X:\1\data\G051324\
Data File : G24V13410.D
Acq On : 13 May 2024 7:42 am
Operator :
Sample : 24E1437-02
Misc :

Quant Time : Mon May 13 08:00:36 2024
Quant Method : X:\1\methods\GS030124.M
QLast Update : Fri Mar 01 13:48:51 2024

Original Integration
Dichlorodifluoromethane



Original Int. Results

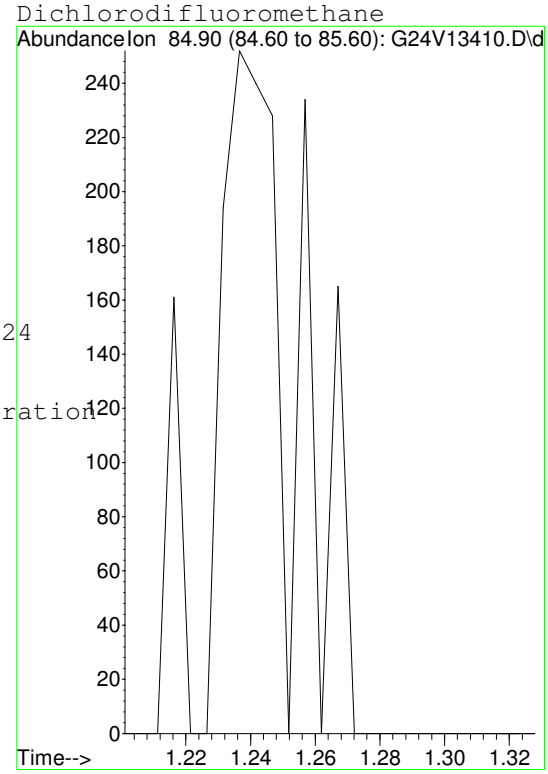
RT : 1.24
Area : 278
Amount: 1.00698

Manual Int. Results

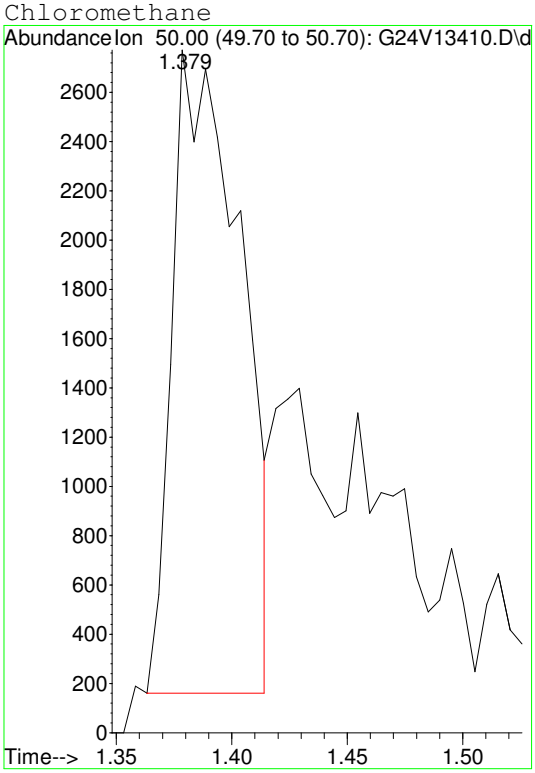
Mon May 13 07:59:25 2024

MIuser: MFF
Reason: Incorret Integration
RT : 0.00
Area : 0
Amount: 0

Manual Integration
Dichlorodifluoromethane



Original Integration
Chloromethane



Original Int. Results

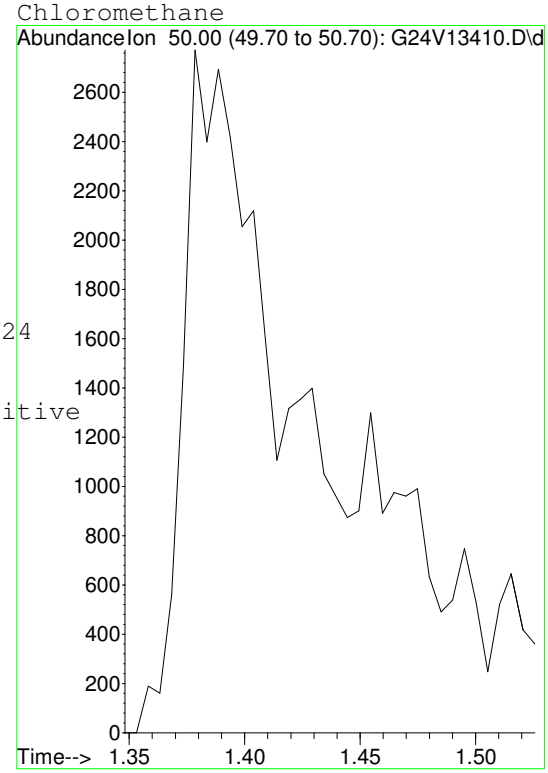
RT : 1.38
Area : 5355
Amount: 0.151546

Manual Int. Results

Mon May 13 07:59:27 2024

MIuser: MFF
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

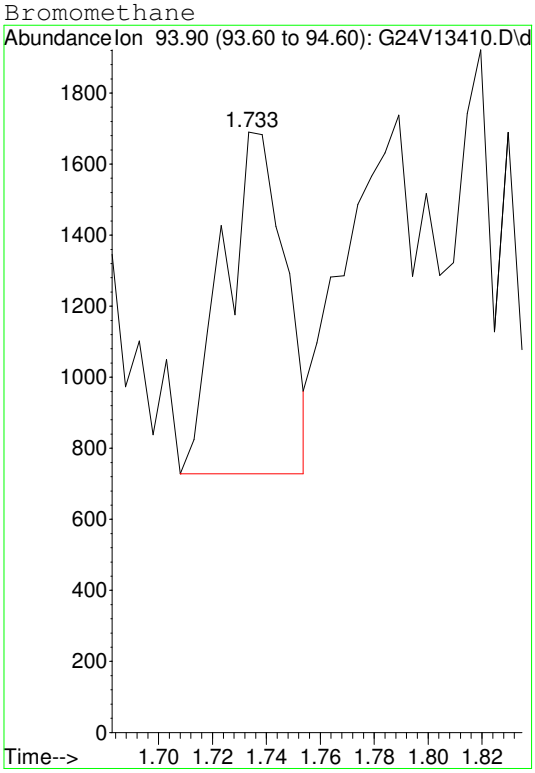
Manual Integration
Chloromethane



Data Path : X:\1\data\G051324\
Data File : G24V13410.D
Acq On : 13 May 2024 7:42 am
Operator :
Sample : 24E1437-02
Misc :

Quant Time : Mon May 13 08:00:36 2024
Quant Method : X:\1\methods\GS030124.M
QLast Update : Fri Mar 01 13:48:51 2024

Original Integration
Bromomethane



Original Int. Results

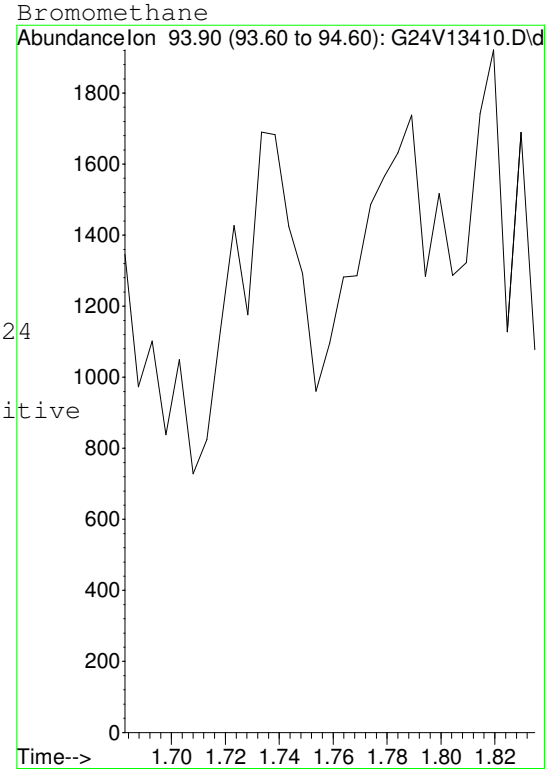
RT : 1.73
Area : 1538
Amount: 0.195456

Manual Int. Results

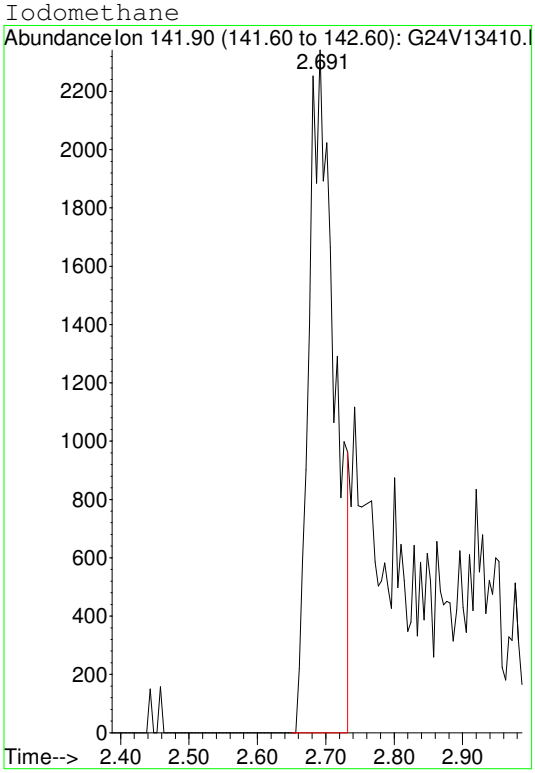
Mon May 13 07:59:31 2024

MIuser: MFF
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration
Bromomethane



Original Integration
Iodomethane



Original Int. Results

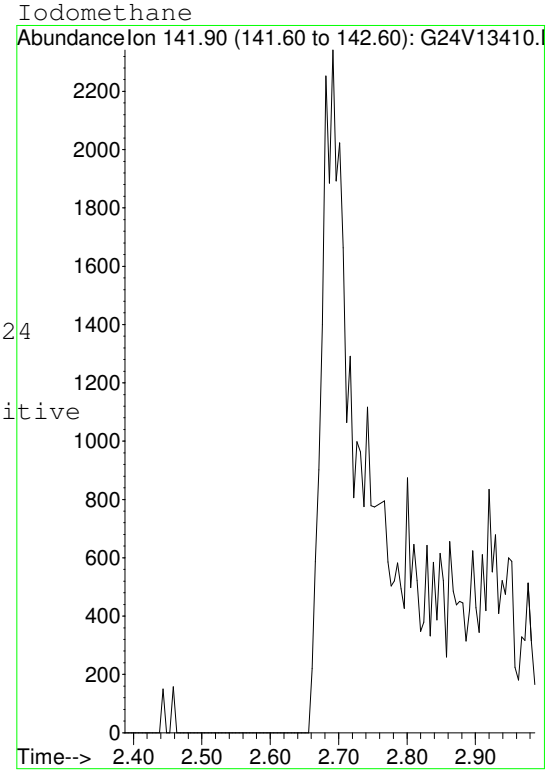
RT : 2.69
Area : 6171
Amount: 0.247626

Manual Int. Results

Mon May 13 07:59:41 2024

MIuser: MFF
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

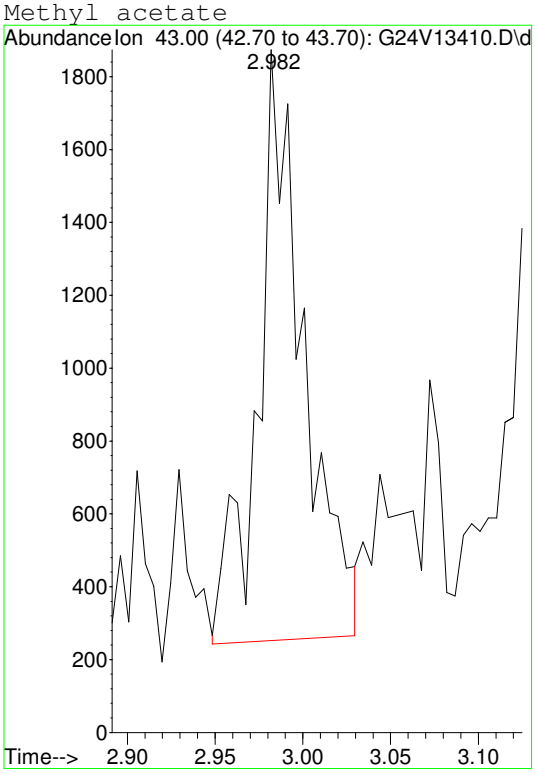
Manual Integration
Iodomethane



Data Path : X:\1\data\G051324\
Data File : G24V13410.D
Acq On : 13 May 2024 7:42 am
Operator :
Sample : 24E1437-02
Misc :

Quant Time : Mon May 13 08:00:36 2024
Quant Method : X:\1\methods\GS030124.M
QLast Update : Fri Mar 01 13:48:51 2024

Original Integration
Methyl acetate



Original Int. Results

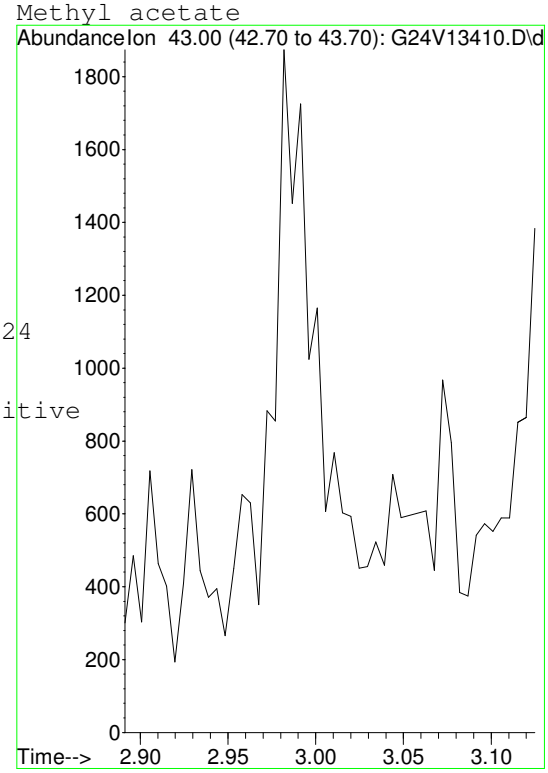
RT : 2.98
Area : 2922
Amount: 0.147774

Manual Int. Results

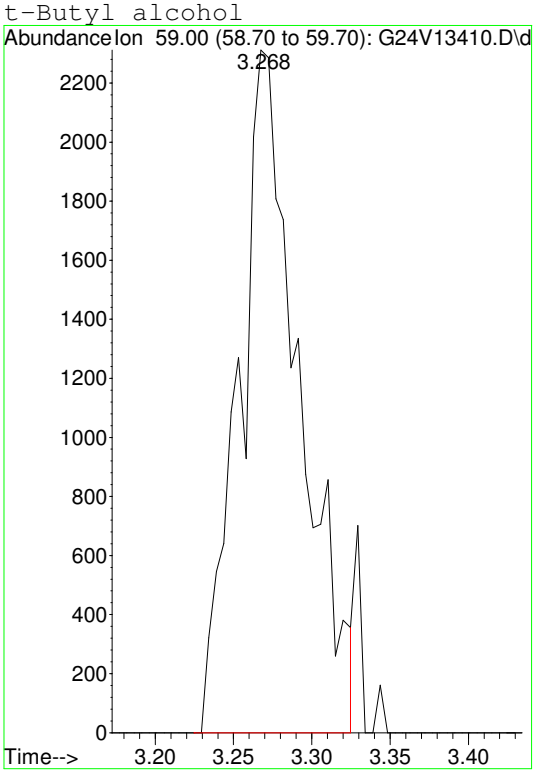
Mon May 13 07:59:44 2024

MIuser: MFF
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration
Methyl acetate



Original Integration
t-Butyl alcohol



Original Int. Results

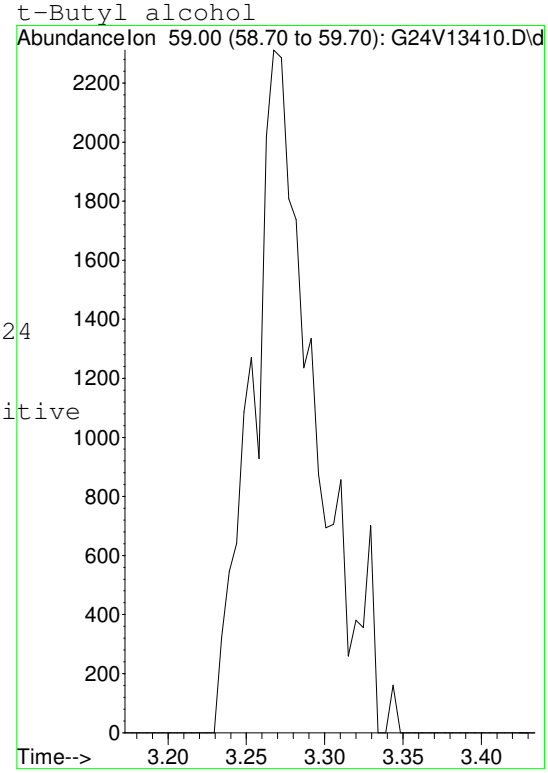
RT : 3.27
Area : 6183
Amount: 2.41612

Manual Int. Results

Mon May 13 07:59:50 2024

MIuser: MFF
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

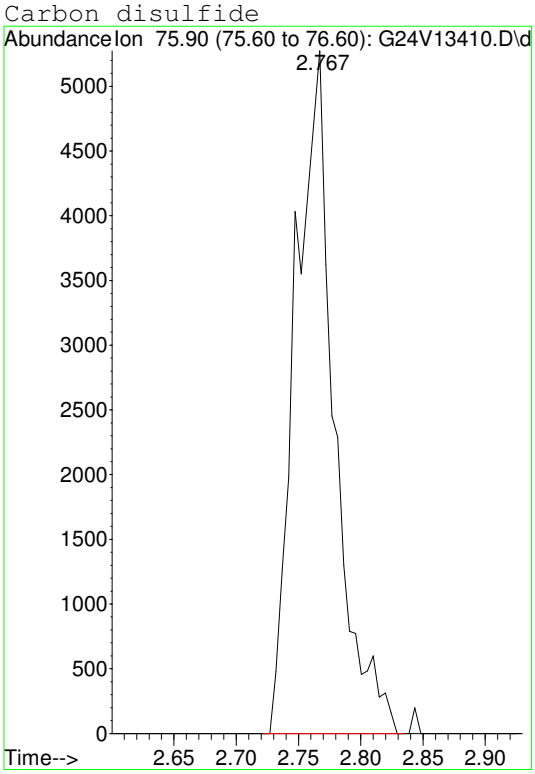
Manual Integration
t-Butyl alcohol



Data Path : X:\1\data\G051324\
Data File : G24V13410.D
Acq On : 13 May 2024 7:42 am
Operator :
Sample : 24E1437-02
Misc :

Quant Time : Mon May 13 08:00:36 2024
Quant Method : X:\1\methods\GS030124.M
QLast Update : Fri Mar 01 13:48:51 2024

Original Integration
Carbon disulfide



Original Int. Results

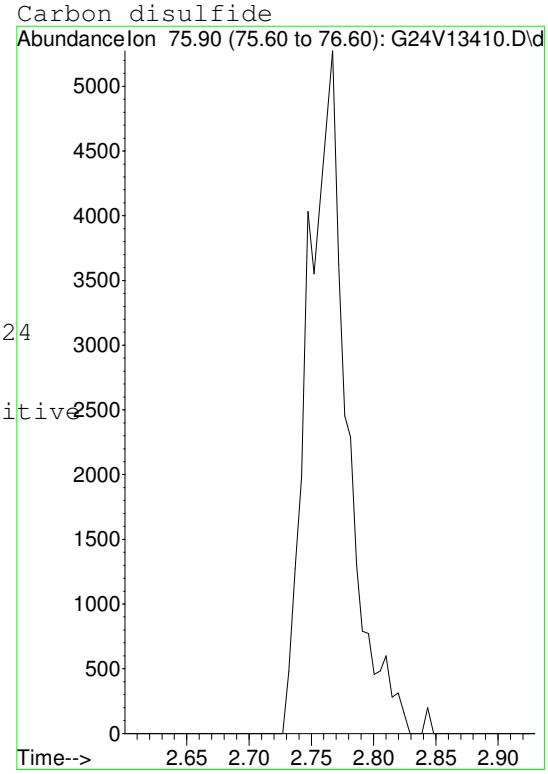
RT : 2.77
Area : 9647
Amount: 0.393314

Manual Int. Results

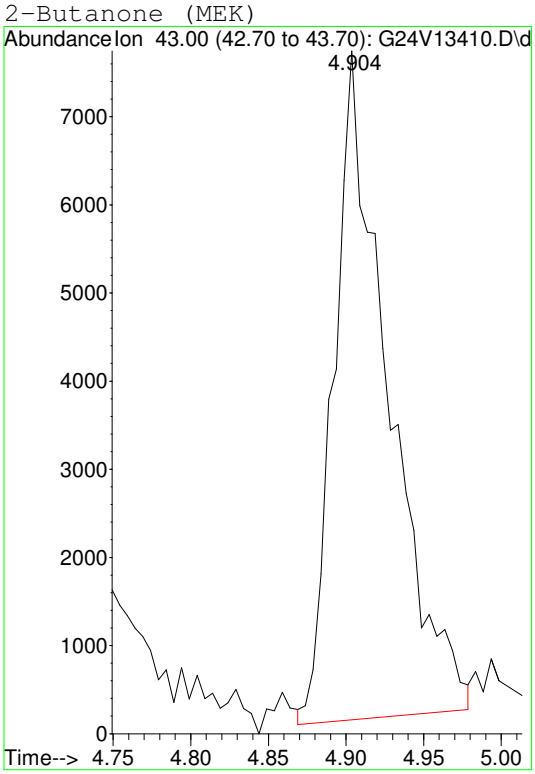
Mon May 13 07:59:53 2024

MIuser: MFF
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration
Carbon disulfide



Original Integration
2-Butanone (MEK)



Original Int. Results

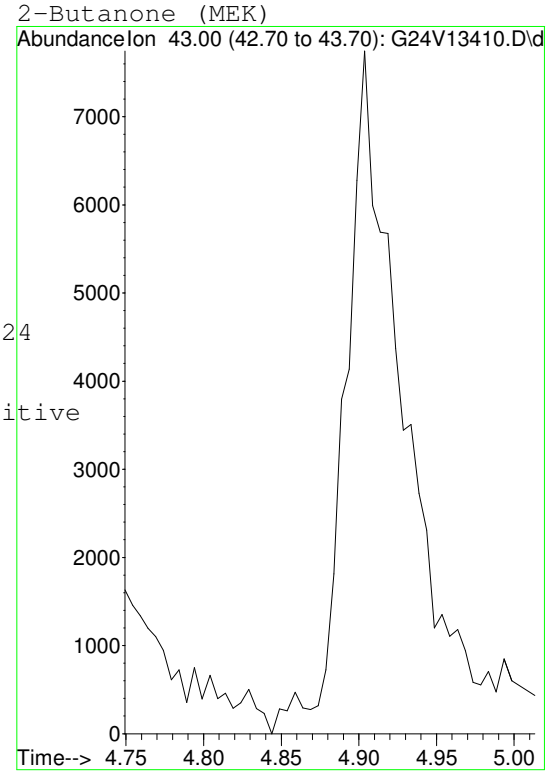
RT : 4.90
Area : 18334
Amount: 1.81418

Manual Int. Results

Mon May 13 08:00:09 2024

MIuser: MFF
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

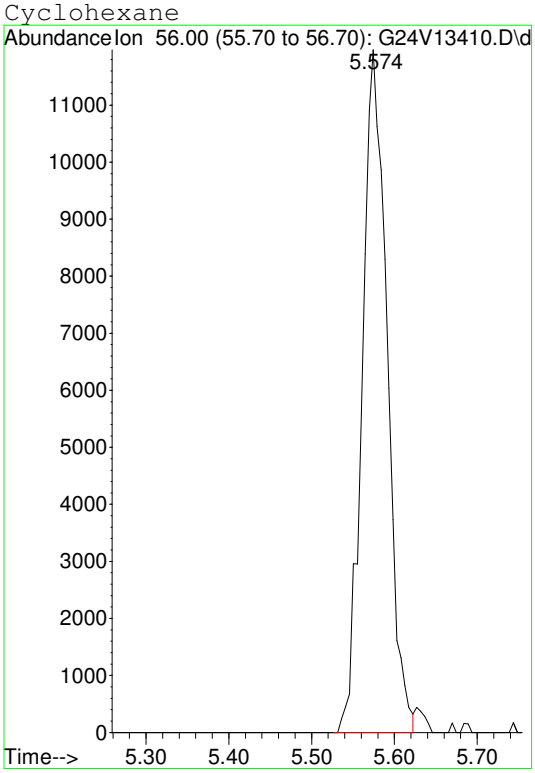
Manual Integration
2-Butanone (MEK)



Data Path : X:\1\data\G051324\
Data File : G24V13410.D
Acq On : 13 May 2024 7:42 am
Operator :
Sample : 24E1437-02
Misc :

Quant Time : Mon May 13 08:00:36 2024
Quant Method : X:\1\methods\GS030124.M
QLast Update : Fri Mar 01 13:48:51 2024

Original Integration
Cyclohexane



Original Int. Results

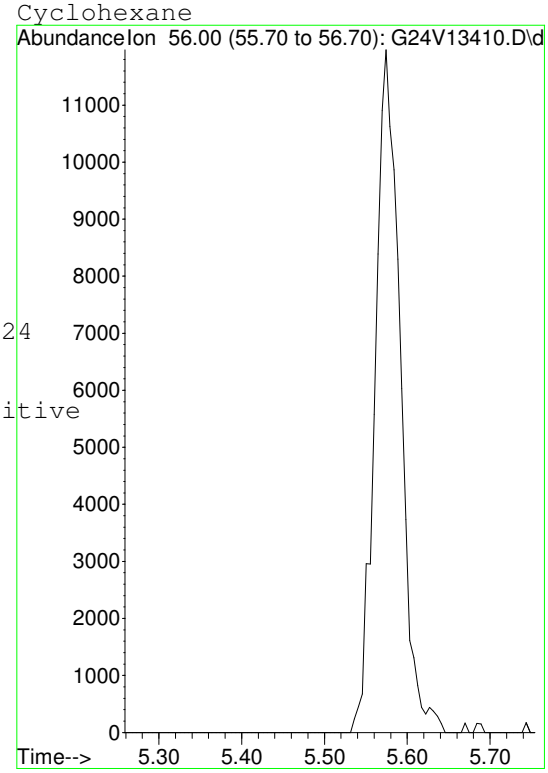
RT : 5.57
Area : 24985
Amount: 1.47516

Manual Int. Results

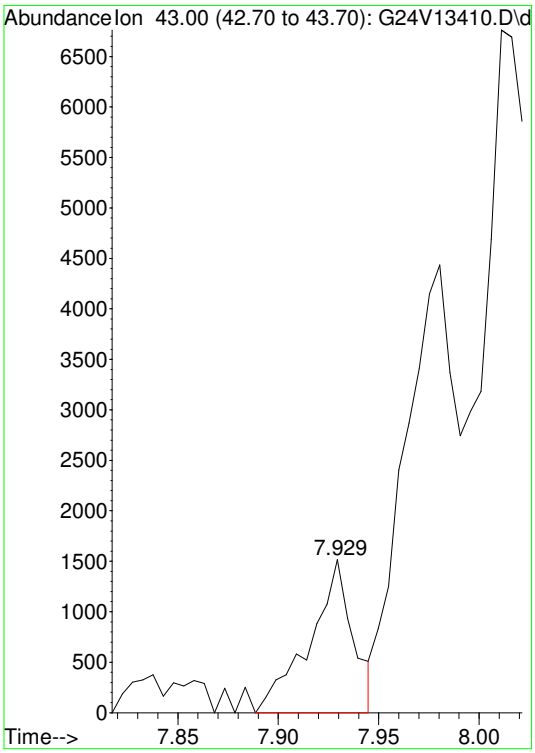
Mon May 13 08:00:16 2024

MIuser: MFF
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration
Cyclohexane



Original Integration
MIBK



Original Int. Results

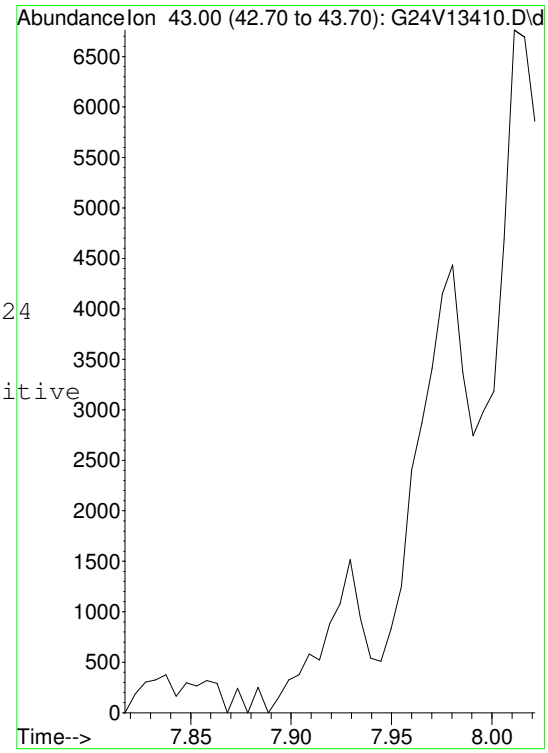
RT : 7.93
Area : 2269
Amount: 0.101292

Manual Int. Results

Mon May 13 08:00:23 2024

MIuser: MFF
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

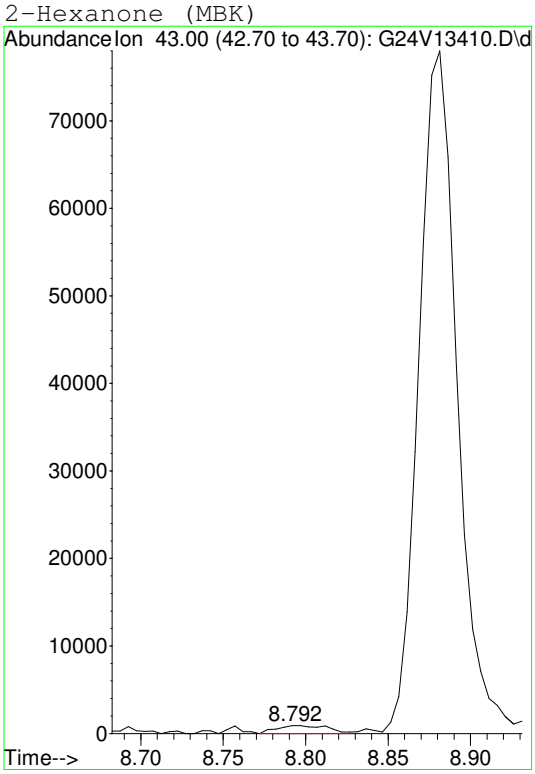
Manual Integration
MIBK



Data Path : X:\1\data\G051324\
Data File : G24V13410.D
Acq On : 13 May 2024 7:42 am
Operator :
Sample : 24E1437-02
Misc :

Quant Time : Mon May 13 08:00:36 2024
Quant Method : X:\1\methods\GS030124.M
QLast Update : Fri Mar 01 13:48:51 2024

Original Integration
2-Hexanone (MBK)



Original Int. Results

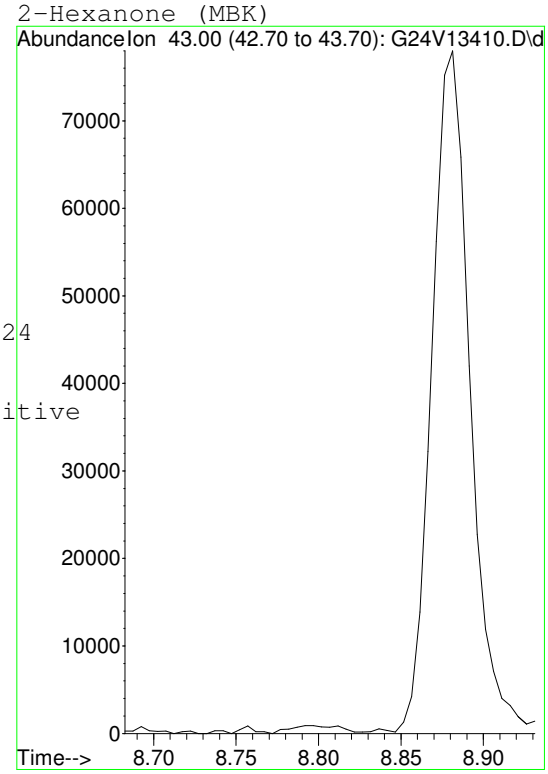
RT : 8.79
Area : 1995
Amount: 0.11398

Manual Int. Results

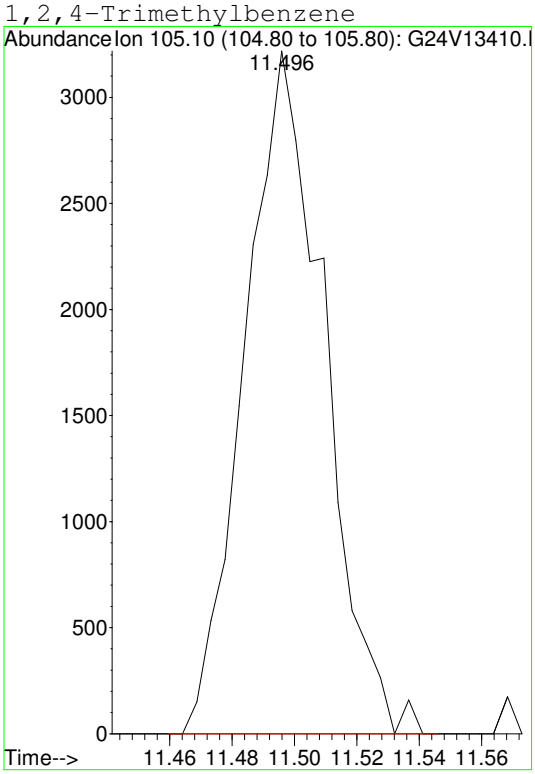
Mon May 13 08:00:29 2024

MIuser: MFF
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration
2-Hexanone (MBK)



Original Integration
1,2,4-Trimethylbenzene



Original Int. Results

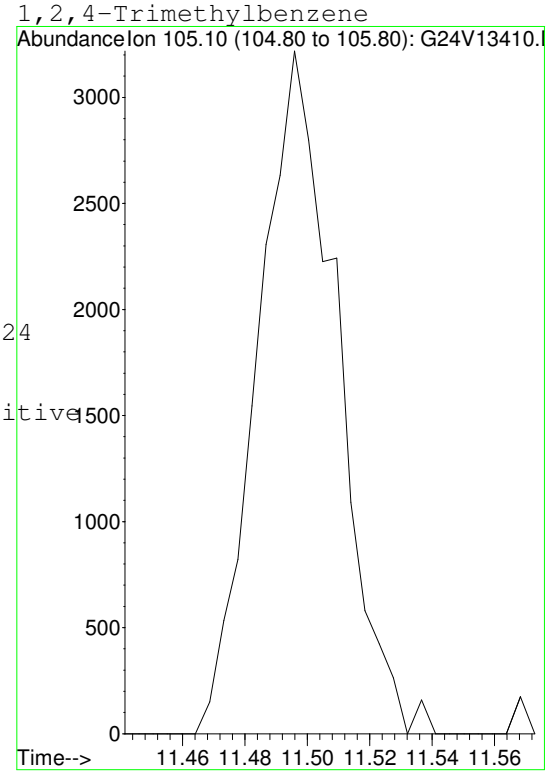
RT : 11.50
Area : 5704
Amount: 0.0899293

Manual Int. Results

Mon May 13 08:00:35 2024

MIuser: MFF
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1,2,4-Trimethylbenzene



1 - FORM I
ANALYSIS DATA SHEET

B1A

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-04	File ID:	G24V13414.D
Sampled:	05/08/24 13:27	Prepared:	05/13/24 04:00	Analyzed:	05/13/24 09:27
Solids:	85.55	Preparation:	SW-846 5035	Dilution:	1
Initial/Final:	3.8 g / 10 mL				
Batch:	B374129	Sequence:	S104464	Calibration:	2400276	Instrument:	GCMSVOA7

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
67-64-1	Acetone		0.080	0.15	
71-43-2	Benzene		0.00096	0.0031	
74-97-5	Bromochloromethane		0.0013	0.0031	
75-27-4	Bromodichloromethane		0.00079	0.0031	
75-25-2	Bromoform		0.0013	0.0031	
74-83-9	Bromomethane		0.0027	0.015	
78-93-3	2-Butanone (MEK)		0.013	0.062	
104-51-8	n-Butylbenzene		0.0011	0.0031	
135-98-8	sec-Butylbenzene		0.0012	0.0031	
98-06-6	tert-Butylbenzene		0.0011	0.0031	
75-15-0	Carbon Disulfide		0.015	0.031	
56-23-5	Carbon Tetrachloride		0.00089	0.0031	
108-90-7	Chlorobenzene		0.00074	0.0031	
124-48-1	Chlorodibromomethane		0.0010	0.0015	
75-00-3	Chloroethane		0.0022	0.031	
67-66-3	Chloroform		0.0010	0.0062	
74-87-3	Chloromethane		0.0019	0.015	
110-82-7	Cyclohexane		0.0063	0.015	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.0012	0.0031	
106-93-4	1,2-Dibromoethane (EDB)		0.0011	0.0015	
95-50-1	1,2-Dichlorobenzene		0.00098	0.0031	
541-73-1	1,3-Dichlorobenzene		0.00089	0.0031	
106-46-7	1,4-Dichlorobenzene		0.00095	0.0031	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.0013	0.031	V-05
75-34-3	1,1-Dichloroethane		0.00094	0.0031	
107-06-2	1,2-Dichloroethane		0.0011	0.0031	
75-35-4	1,1-Dichloroethylene		0.0015	0.0062	
156-59-2	cis-1,2-Dichloroethylene		0.0011	0.0031	
156-60-5	trans-1,2-Dichloroethylene		0.00092	0.0031	
78-87-5	1,2-Dichloropropane		0.00095	0.0031	

1 - FORM I
ANALYSIS DATA SHEET

B1A

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-04	File ID:	G24V13414.D
Sampled:	05/08/24 13:27	Prepared:	05/13/24 04:00	Analyzed:	05/13/24 09:27
Solids:	85.55	Preparation:	SW-846 5035	Dilution:	1
Initial/Final:	3.8 g / 10 mL				
Batch:	B374129	Sequence:	S104464	Calibration:	2400276
				Instrument:	GCMSVOA7

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
10061-01-5	cis-1,3-Dichloropropene		0.0012	0.0015	
10061-02-6	trans-1,3-Dichloropropene		0.0012	0.0015	
100-41-4	Ethylbenzene		0.00089	0.0031	
591-78-6	2-Hexanone (MBK)		0.011	0.031	
98-82-8	Isopropylbenzene (Cumene)		0.0012	0.0031	
99-87-6	p-Isopropyltoluene (p-Cymene)		0.0010	0.0031	
79-20-9	Methyl Acetate		0.0020	0.0031	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.0014	0.0062	
108-87-2	Methyl Cyclohexane		0.0011	0.0031	
75-09-2	Methylene Chloride		0.0014	0.031	
108-10-1	4-Methyl-2-pentanone (MIBK)		0.014	0.031	
91-20-3	Naphthalene		0.0015	0.0062	
103-65-1	n-Propylbenzene		0.0010	0.0031	
100-42-5	Styrene		0.00098	0.0031	
79-34-5	1,1,2,2-Tetrachloroethane		0.0012	0.0015	
127-18-4	Tetrachloroethylene		0.0013	0.0031	
108-88-3	Toluene		0.00091	0.0031	
87-61-6	1,2,3-Trichlorobenzene		0.0010	0.0031	
120-82-1	1,2,4-Trichlorobenzene		0.0010	0.0031	
71-55-6	1,1,1-Trichloroethane		0.00091	0.0031	
79-00-5	1,1,2-Trichloroethane		0.00079	0.0031	
79-01-6	Trichloroethylene		0.0012	0.0031	
75-69-4	Trichlorofluoromethane (Freon 11)		0.0018	0.015	
96-18-4	1,2,3-Trichloropropane		0.0012	0.0031	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.0016	0.015	
95-63-6	1,2,4-Trimethylbenzene		0.0015	0.0031	
108-67-8	1,3,5-Trimethylbenzene		0.0012	0.0031	
75-01-4	Vinyl Chloride		0.0012	0.015	
179601-23-1	m+p Xylene		0.0022	0.0062	
95-47-6	o-Xylene		0.0010	0.0031	

1 - FORM I
ANALYSIS DATA SHEET

B1A

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-04	File ID:	G24V13414.D
Sampled:	05/08/24 13:27	Prepared:	05/13/24 04:00	Analyzed:	05/13/24 09:27
Solids:	85.55	Preparation:	SW-846 5035	Dilution:	1
Initial/Final:	3.8 g / 10 mL				
Batch:	B374129	Sequence:	S104464	Calibration:	2400276
				Instrument:	GCMSVOA7

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
1330-20-7	Xylenes (total)		0.0031	0.0031	

Data Path : X:\1\data\G051324\
Data File : G24V13414.D
Acq On : 13 May 2024 9:27 am
Operator :
Sample : 24E1437-04 Inst : GCMSVOA7
Misc :
ALS Vial : 14 Sample Multiplier: 1

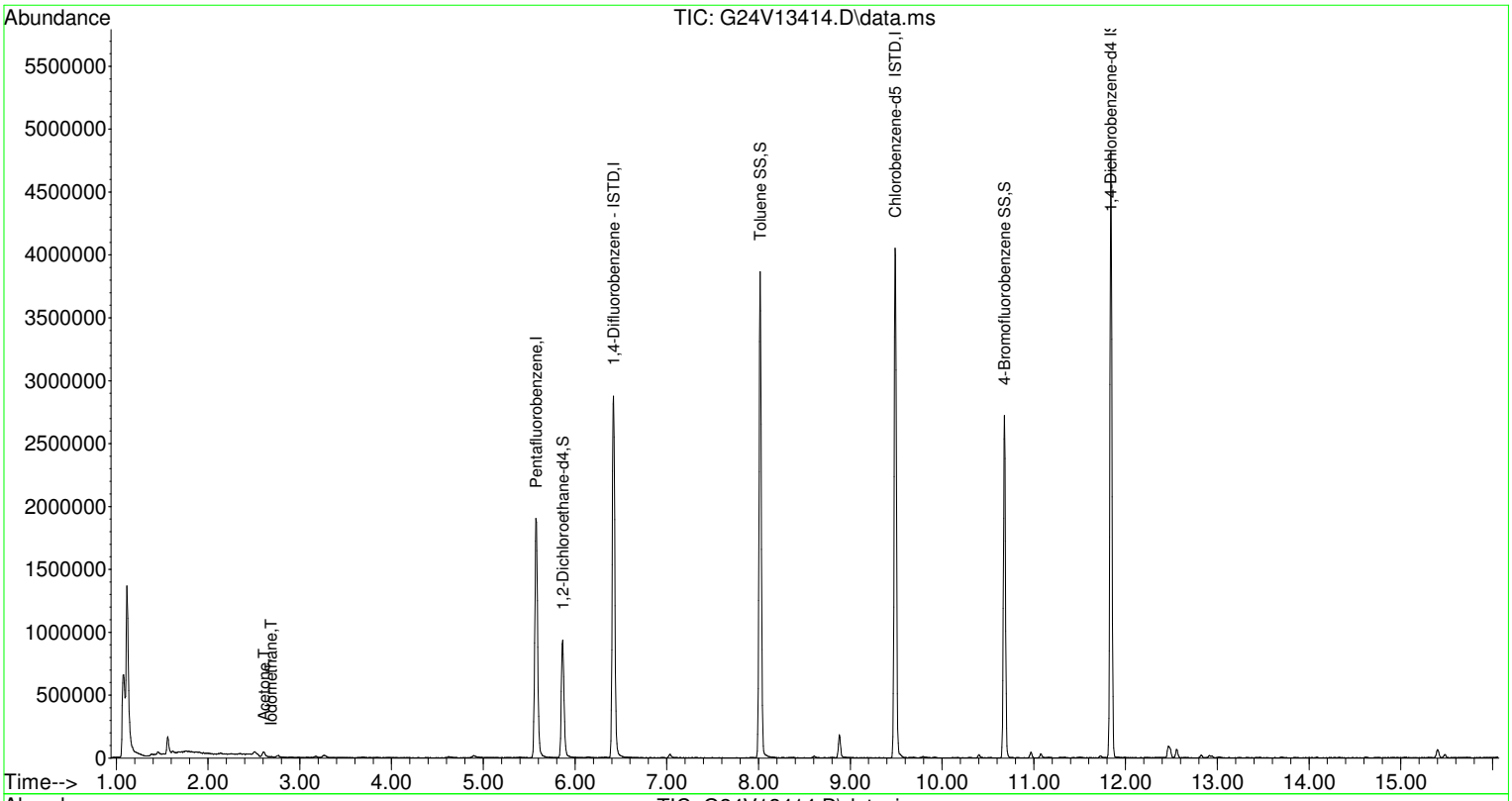
Quant Time: May 13 09:58:16 2024
Quant Method : X:\1\methods\GS030124.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Fri Mar 01 13:48:51 2024
Response via : Initial Calibration

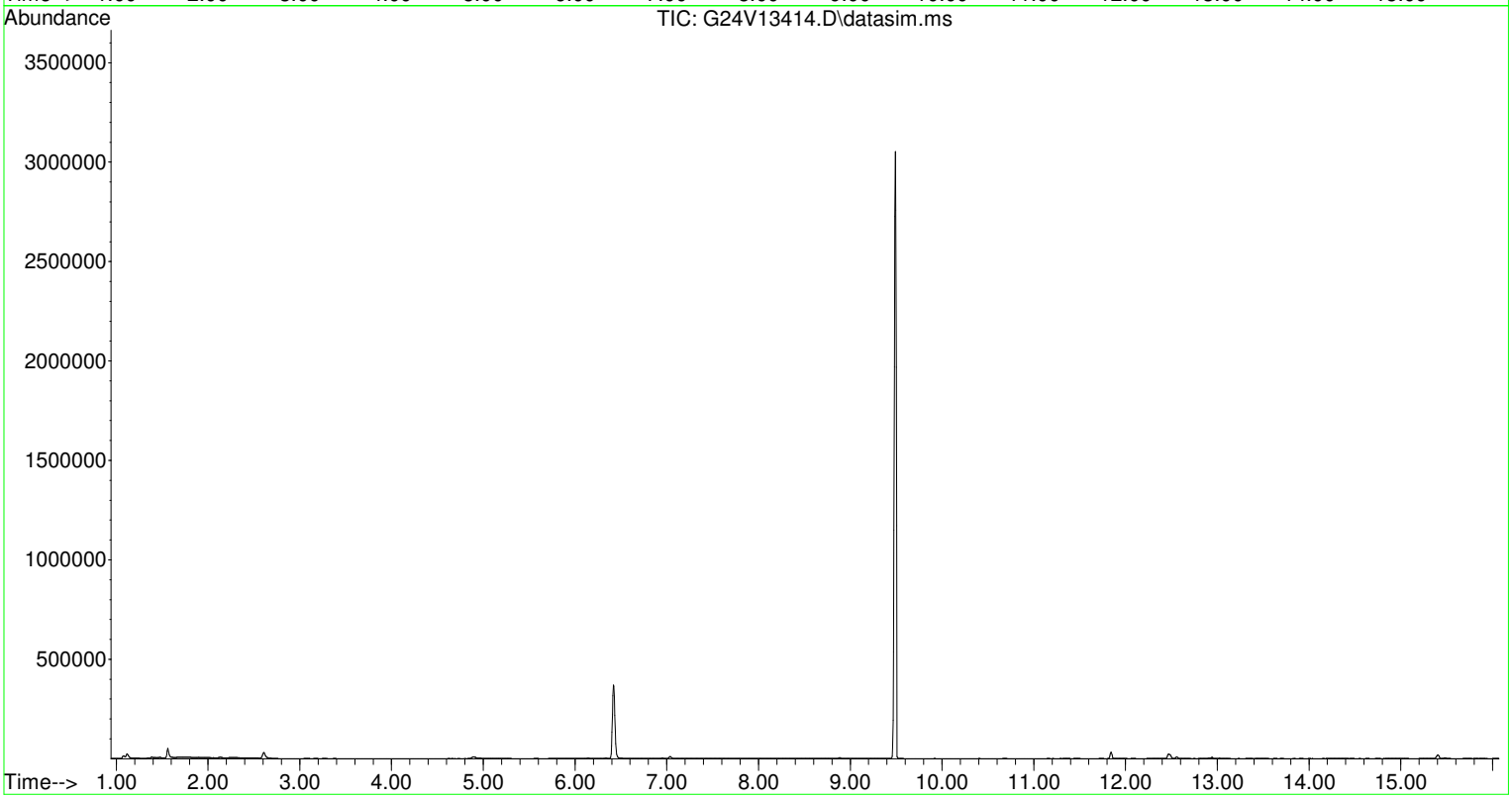
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.574	168	1596574	30.00	ug/L	0.00
49) 1,4-Difluorobenzene - ...	6.420	114	2721301	30.00	ug/L	0.00
72) Chlorobenzene-d5 ISTD	9.488	82	1035014	30.00	ug/L	#-0.01
91) 1,4-Dichlorobenzene-d4...	11.840	152	1259471	30.00	ug/L	-0.01
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	5.866	65	624268	24.97	ug/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 99.88%			
50) Toluene SS	8.016	98	2580229	23.99	ug/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 95.96%			
73) 4-Bromofluorobenzene SS	10.681	95	877496	21.41	ug/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 85.64%			
Target Compounds						Qvalue
14) Acetone	2.610	43	62458	6.47	ug/L	94
17) Iodomethane	2.686	142	5466	0.19	ug/L	100

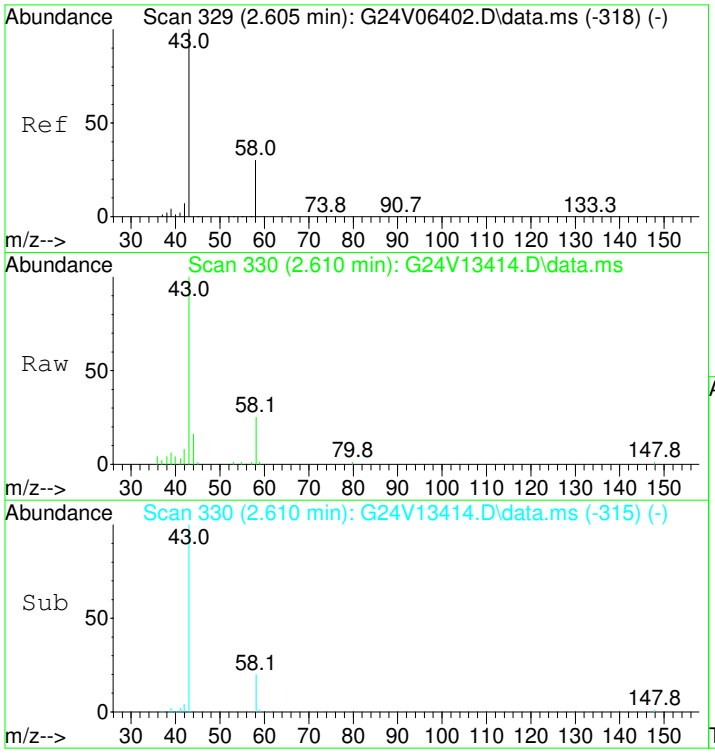
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\1\data\G051324\
Data File : G24V13414.D
Acq On : 13 May 2024 9:27 am
Operator :
Sample : 24E1437-04 Inst : GCMSVOA7
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 13 09:58:16 2024
Quant Method : X:\1\methods\GS030124.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Fri Mar 01 13:48:51 2024
Response via : Initial Calibration



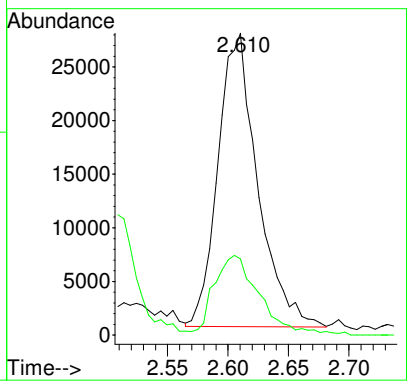


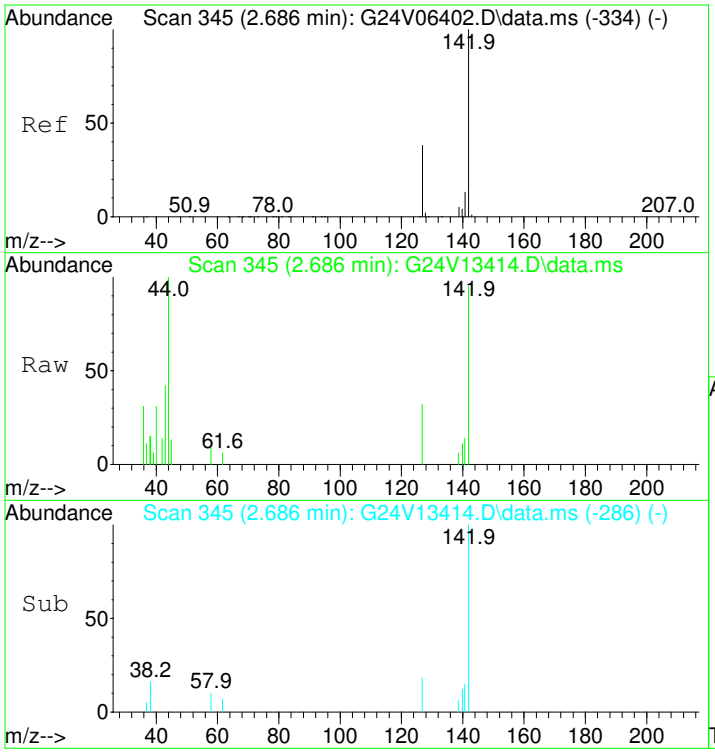


#14
Acetone
Concen: 6.47 ug/L
RT: 2.610 min Scan# 330
Delta R.T. 0.005 min
Lab File: G24V13414.D
Acq: 13 May 2024 9:27 am

Tgt Ion: 43 Resp: 62458

Ion	Ratio	Lower	Upper
43	100		
58	31.2	14.5	54.5

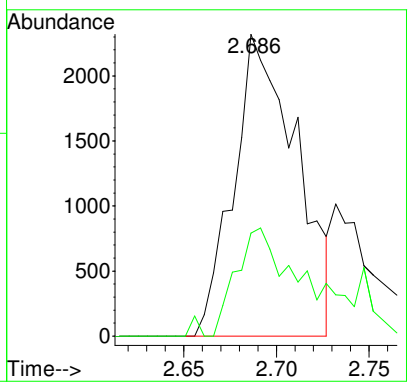




#17
Iodomethane
Concen: 0.19 ug/L
RT: 2.686 min Scan# 345
Delta R.T. 0.000 min
Lab File: G24V13414.D
Acq: 13 May 2024 9:27 am

Tgt Ion:142 Resp: 5466

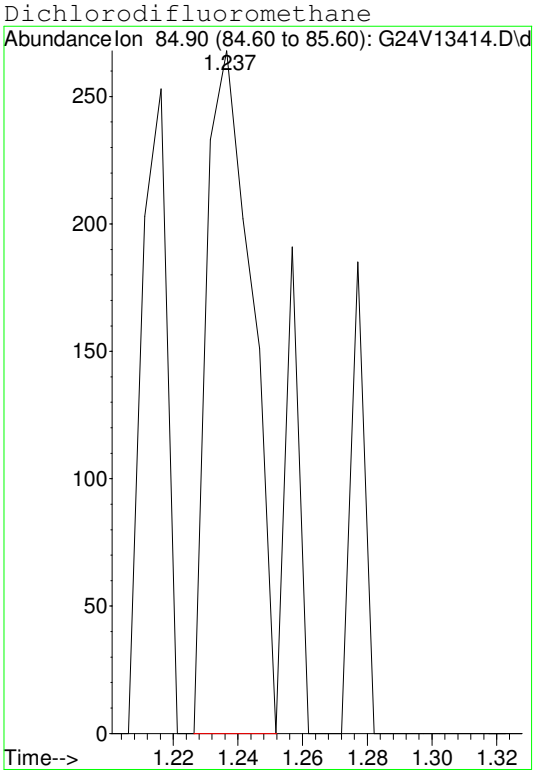
Ion	Ratio	Lower	Upper
142	100		
127	38.9	19.0	59.0



Data Path : X:\1\data\G051324\
Data File : G24V13414.D
Acq On : 13 May 2024 9:27 am
Operator :
Sample : 24E1437-04
Misc :

Quant Time : Mon May 13 09:58:16 2024
Quant Method : X:\1\methods\GS030124.M
QLast Update : Fri Mar 01 13:48:51 2024

Original Integration
Dichlorodifluoromethane



Original Int. Results

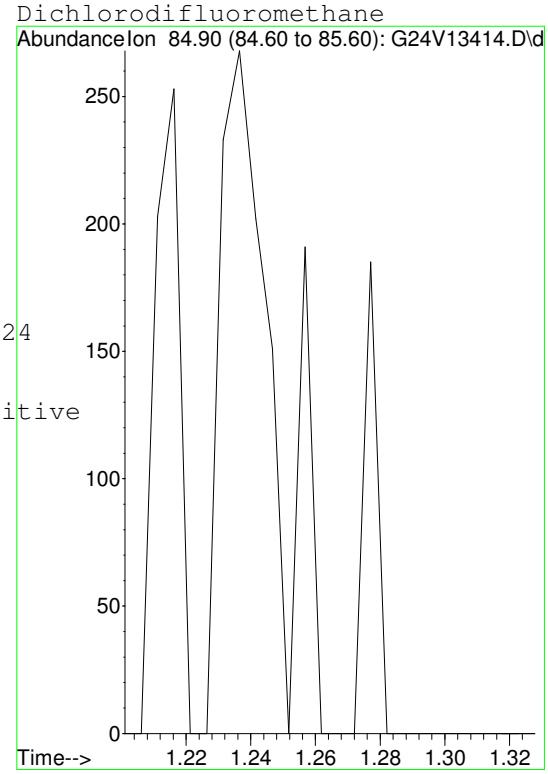
RT : 1.24
Area : 260
Amount: 1.00392

Manual Int. Results

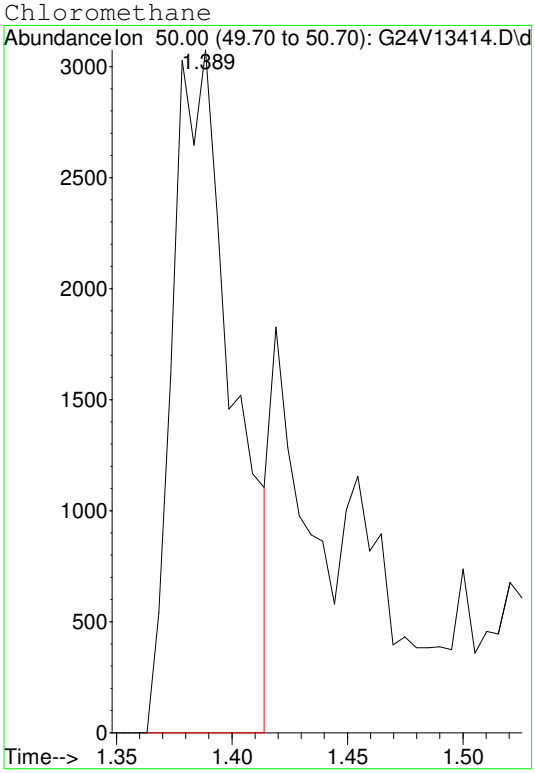
Mon May 13 09:57:30 2024

MIuser: MFF
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration
Dichlorodifluoromethane



Original Integration
Chloromethane



Original Int. Results

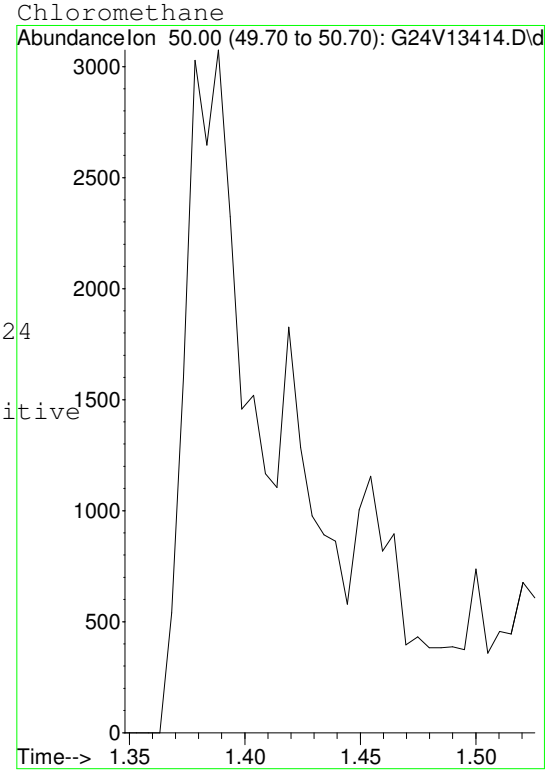
RT : 1.39
Area : 5617
Amount: 0.139449

Manual Int. Results

Mon May 13 09:57:37 2024

MIuser: MFF
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

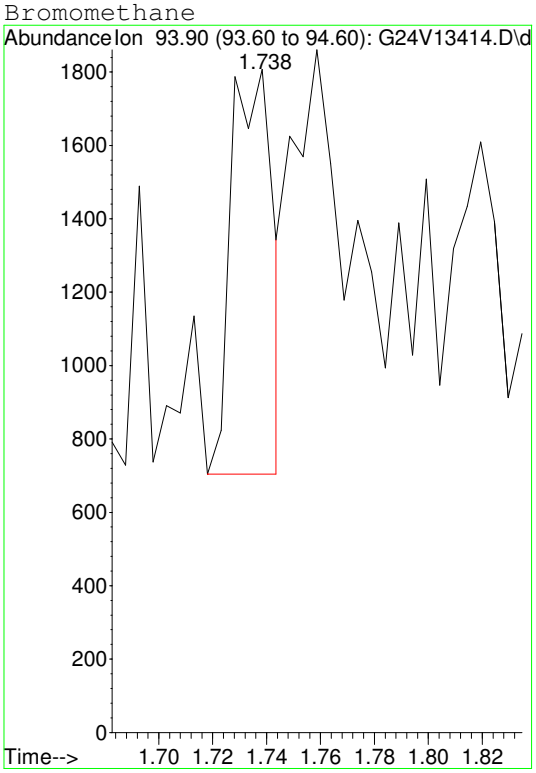
Manual Integration
Chloromethane



Data Path : X:\1\data\G051324\
Data File : G24V13414.D
Acq On : 13 May 2024 9:27 am
Operator :
Sample : 24E1437-04
Misc :

Quant Time : Mon May 13 09:58:16 2024
Quant Method : X:\1\methods\GS030124.M
QLast Update : Fri Mar 01 13:48:51 2024

Original Integration
Bromomethane



Original Int. Results

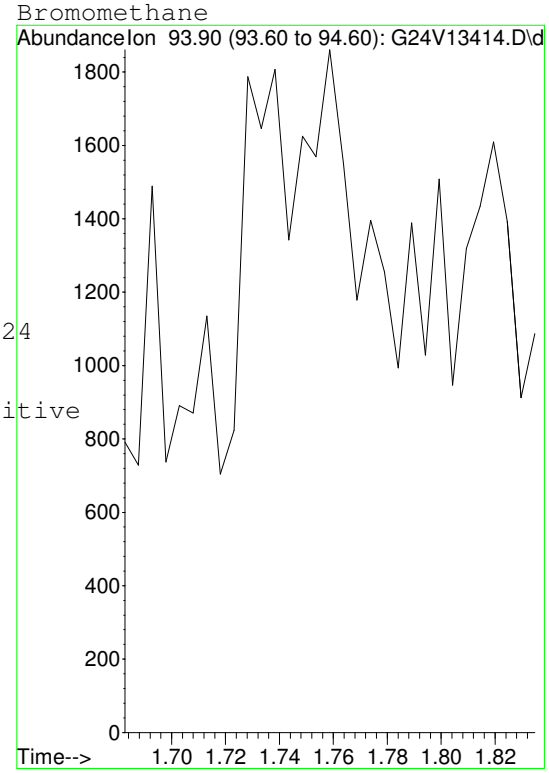
RT : 1.74
Area : 1182
Amount: 0.131776

Manual Int. Results

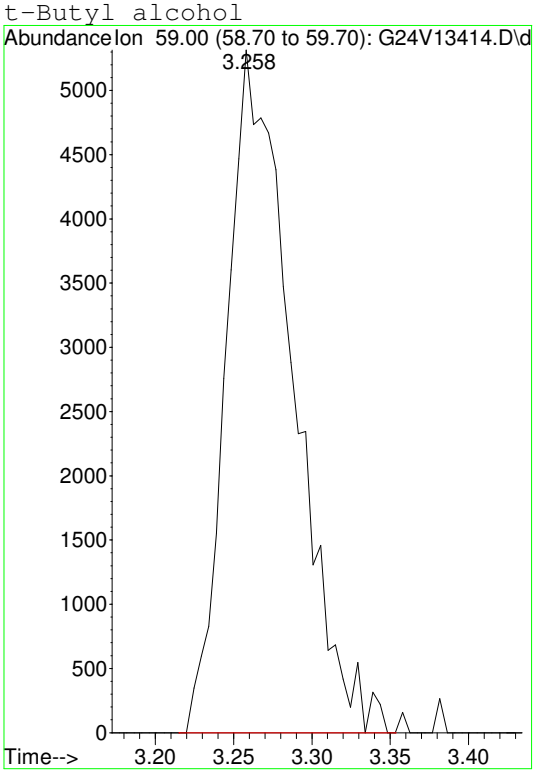
Mon May 13 09:57:41 2024

MIuser: MFF
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration
Bromomethane



Original Integration
t-Butyl alcohol



Original Int. Results

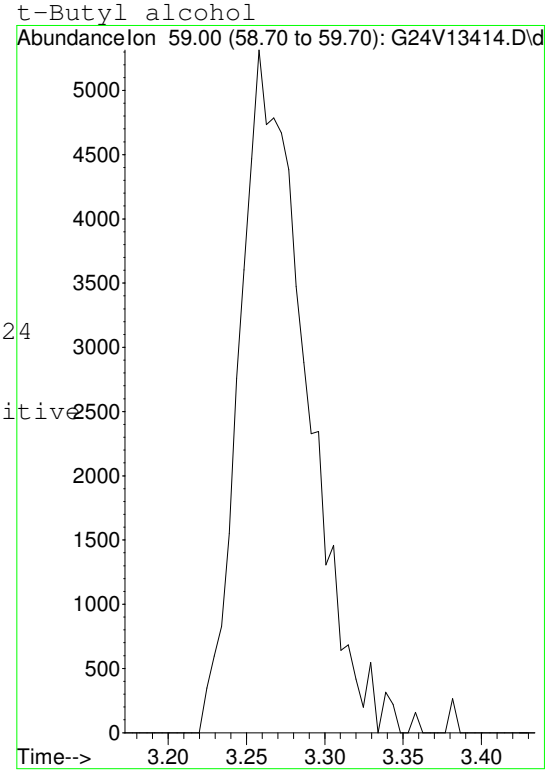
RT : 3.26
Area : 15663
Amount: 5.36932

Manual Int. Results

Mon May 13 09:57:47 2024

MIuser: MFF
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

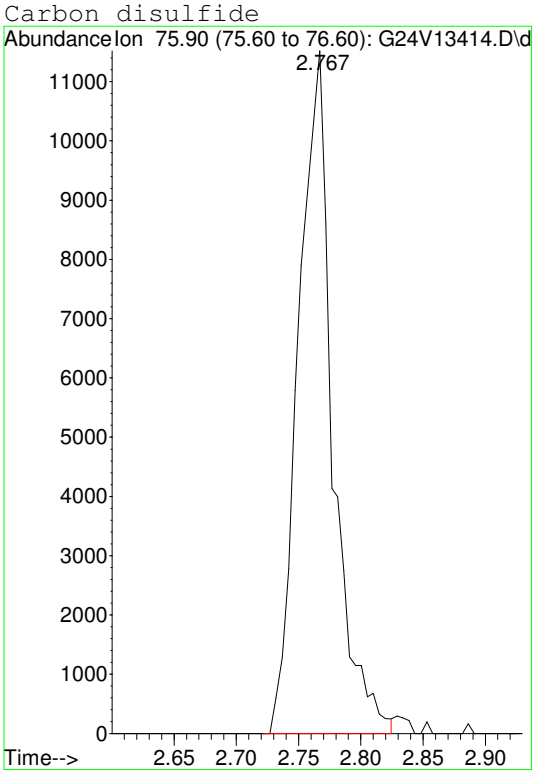
Manual Integration
t-Butyl alcohol



Data Path : X:\1\data\G051324\
Data File : G24V13414.D
Acq On : 13 May 2024 9:27 am
Operator :
Sample : 24E1437-04
Misc :

Quant Time : Mon May 13 09:58:16 2024
Quant Method : X:\1\methods\GS030124.M
QLast Update : Fri Mar 01 13:48:51 2024

Original Integration
Carbon disulfide



Original Int. Results

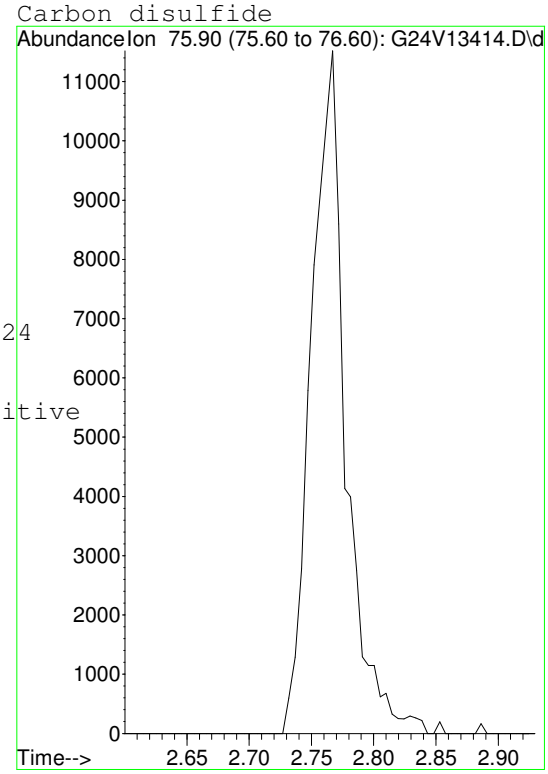
RT : 2.77
Area : 17837
Amount: 0.637963

Manual Int. Results

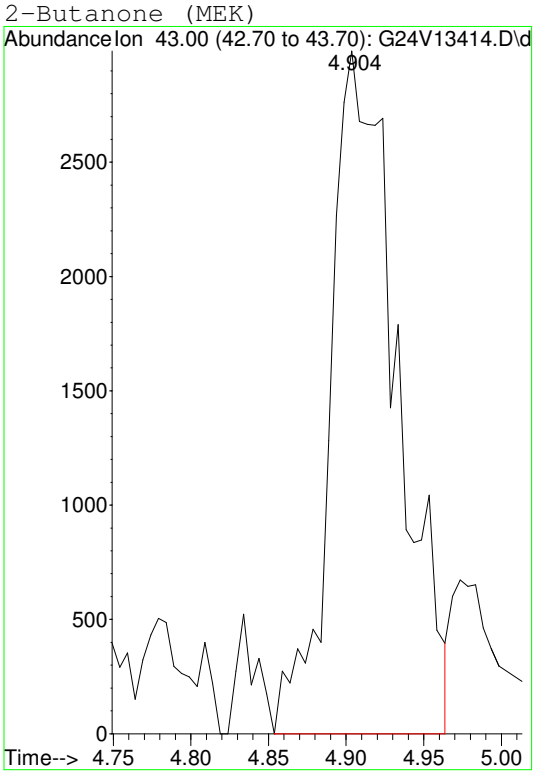
Mon May 13 09:57:51 2024

MIuser: MFF
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration
Carbon disulfide



Original Integration
2-Butanone (MEK)



Original Int. Results

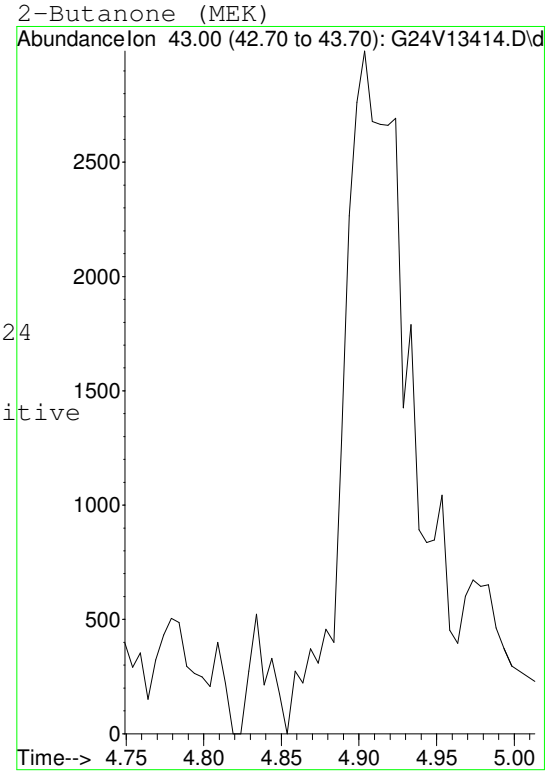
RT : 4.90
Area : 8886
Amount: 0.771356

Manual Int. Results

Mon May 13 09:57:55 2024

MIuser: MFF
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

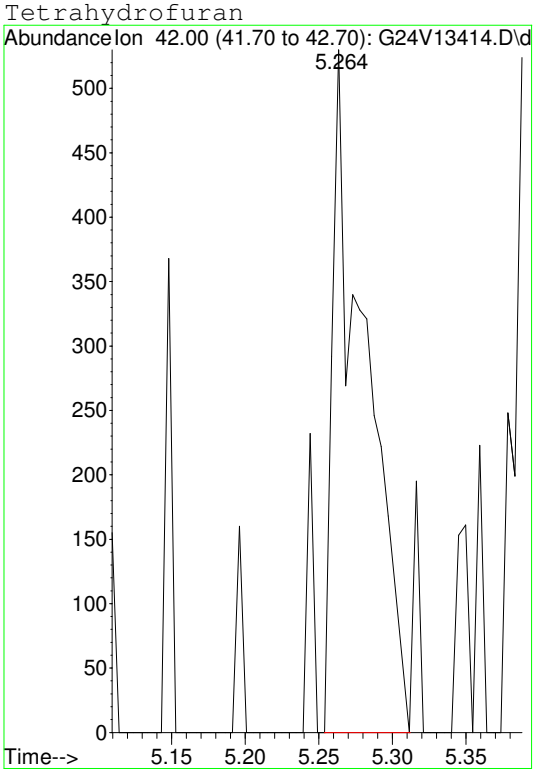
Manual Integration
2-Butanone (MEK)



Data Path : X:\1\data\G051324\
Data File : G24V13414.D
Acq On : 13 May 2024 9:27 am
Operator :
Sample : 24E1437-04
Misc :

Quant Time : Mon May 13 09:58:16 2024
Quant Method : X:\1\methods\GS030124.M
QLast Update : Fri Mar 01 13:48:51 2024

Original Integration
Tetrahydrofuran



Original Int. Results

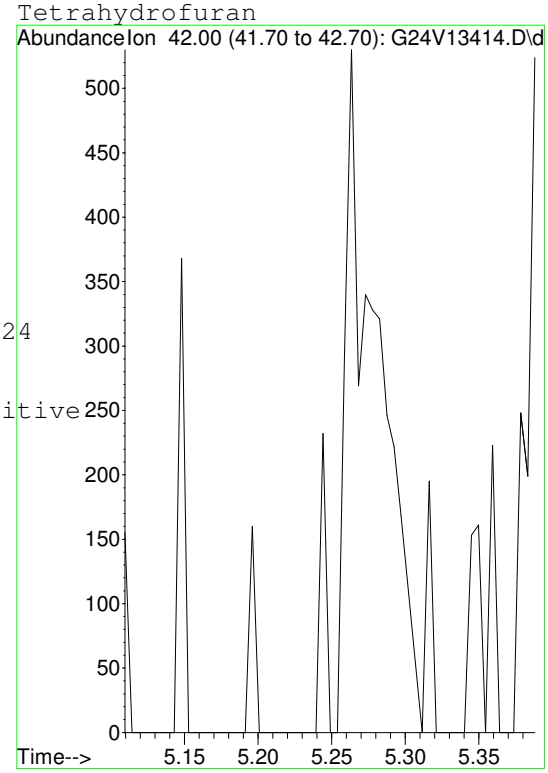
RT : 5.26
Area : 941
Amount: 0.109912

Manual Int. Results

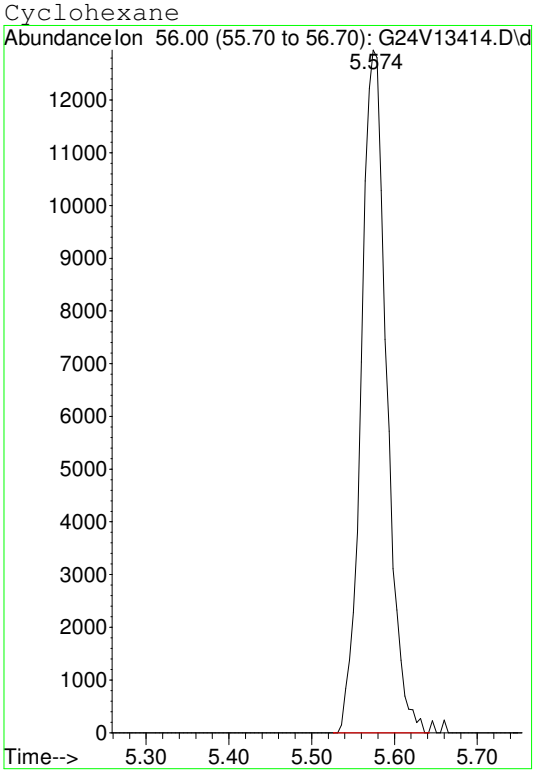
Mon May 13 09:58:01 2024

MIuser: MFF
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration
Tetrahydrofuran



Original Integration
Cyclohexane



Original Int. Results

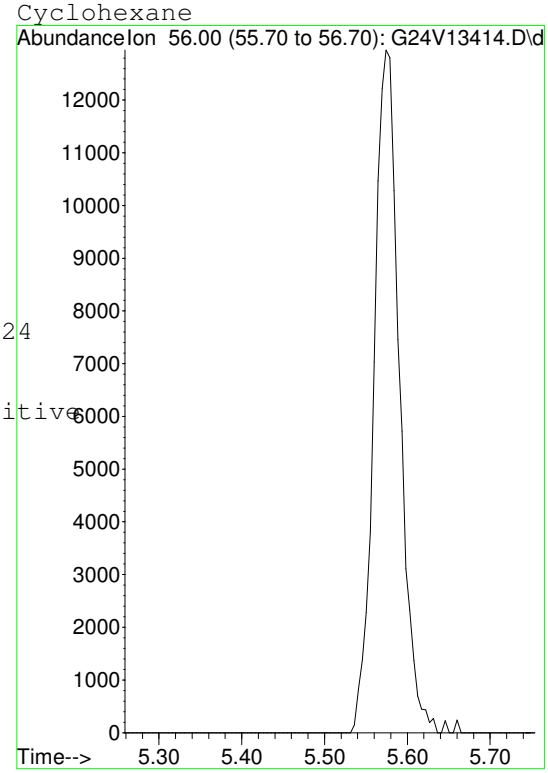
RT : 5.57
Area : 27582
Amount: 1.45418

Manual Int. Results

Mon May 13 09:58:07 2024

MIuser: MFF
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

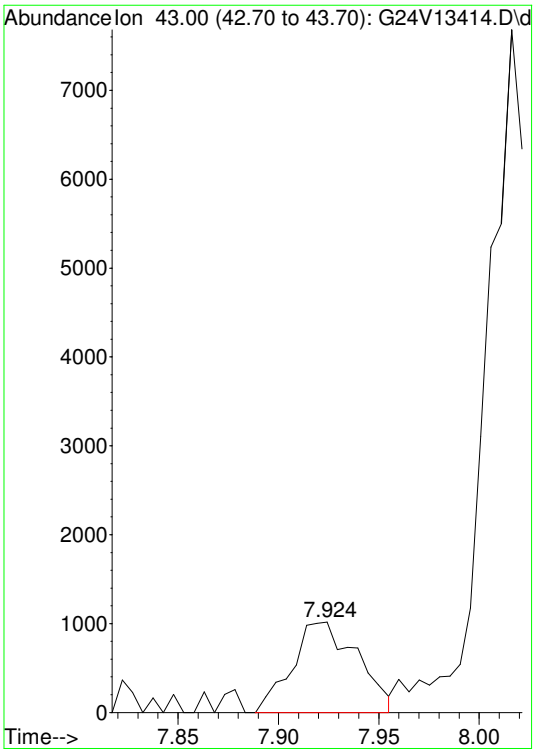
Manual Integration
Cyclohexane



Data Path : X:\1\data\G051324\
Data File : G24V13414.D
Acq On : 13 May 2024 9:27 am
Operator :
Sample : 24E1437-04
Misc :

Quant Time : Mon May 13 09:58:16 2024
Quant Method : X:\1\methods\GS030124.M
QLast Update : Fri Mar 01 13:48:51 2024

Original Integration
MIBK



Original Int. Results

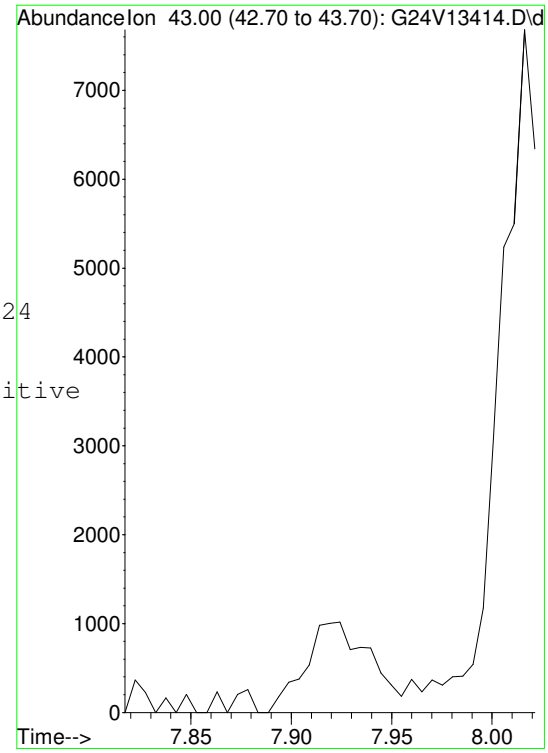
RT : 7.92
Area : 2307
Amount: 0.0993985

Manual Int. Results

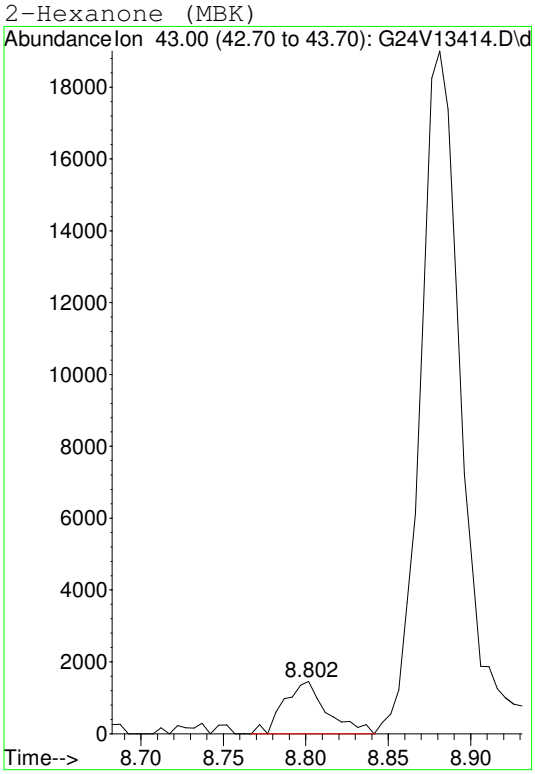
Mon May 13 09:58:11 2024

MIuser: MFF
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration
MIBK



Original Integration
2-Hexanone (MBK)



Original Int. Results

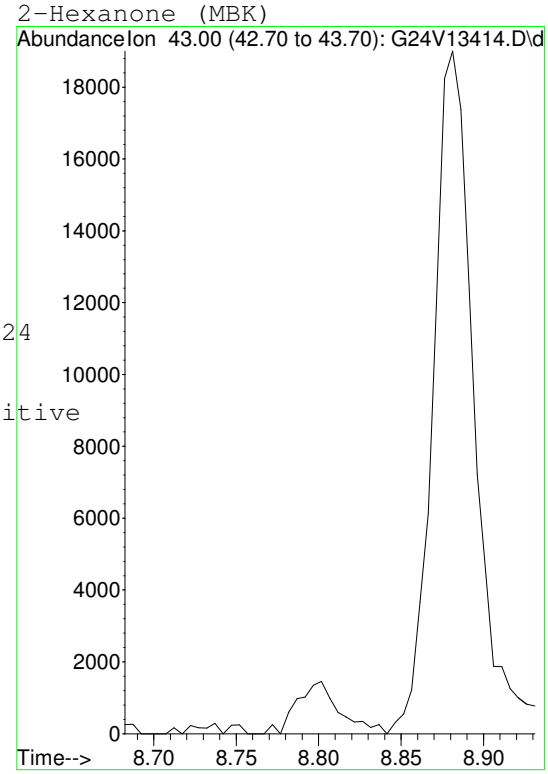
RT : 8.80
Area : 2624
Amount: 0.144691

Manual Int. Results

Mon May 13 09:58:15 2024

MIuser: MFF
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration
2-Hexanone (MBK)



1 - FORM I
ANALYSIS DATA SHEET

SB1A

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-06	File ID:	G24V13409.D
Sampled:	05/08/24 14:19	Prepared:	05/13/24 04:00	Analyzed:	05/13/24 07:16
Solids:	72.51	Preparation:	SW-846 5035	Dilution:	1
Initial/Final:	5.49 g / 10 mL				
Batch:	B374129	Sequence:	S104464	Calibration:	2400276
				Instrument:	GCMSVOA7

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
67-64-1	Acetone		0.065	0.13	
71-43-2	Benzene		0.00079	0.0025	
74-97-5	Bromochloromethane		0.0011	0.0025	
75-27-4	Bromodichloromethane		0.00064	0.0025	
75-25-2	Bromoform		0.0011	0.0025	
74-83-9	Bromomethane		0.0022	0.013	MS-07A
78-93-3	2-Butanone (MEK)		0.011	0.050	
104-51-8	n-Butylbenzene		0.00091	0.0025	
135-98-8	sec-Butylbenzene		0.0010	0.0025	
98-06-6	tert-Butylbenzene		0.00091	0.0025	
75-15-0	Carbon Disulfide		0.013	0.025	
56-23-5	Carbon Tetrachloride		0.00073	0.0025	
108-90-7	Chlorobenzene		0.00061	0.0025	
124-48-1	Chlorodibromomethane		0.00083	0.0013	
75-00-3	Chloroethane		0.0018	0.025	
67-66-3	Chloroform		0.00082	0.0050	
74-87-3	Chloromethane		0.0015	0.013	
110-82-7	Cyclohexane		0.0051	0.013	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.0010	0.0025	
106-93-4	1,2-Dibromoethane (EDB)		0.00092	0.0013	
95-50-1	1,2-Dichlorobenzene		0.00080	0.0025	
541-73-1	1,3-Dichlorobenzene		0.00072	0.0025	
106-46-7	1,4-Dichlorobenzene		0.00078	0.0025	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.0011	0.025	V-05
75-34-3	1,1-Dichloroethane		0.00076	0.0025	
107-06-2	1,2-Dichloroethane		0.00086	0.0025	
75-35-4	1,1-Dichloroethylene		0.0012	0.0050	
156-59-2	cis-1,2-Dichloroethylene		0.00087	0.0025	
156-60-5	trans-1,2-Dichloroethylene		0.00075	0.0025	
78-87-5	1,2-Dichloropropane		0.00077	0.0025	

1 - FORM I
ANALYSIS DATA SHEET

SB1A

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-06	File ID:	G24V13409.D
Sampled:	05/08/24 14:19	Prepared:	05/13/24 04:00	Analyzed:	05/13/24 07:16
Solids:	72.51	Preparation:	SW-846 5035	Dilution:	1
Initial/Final:	5.49 g / 10 mL				
Batch:	B374129	Sequence:	S104464	Calibration:	2400276	Instrument:	GCMSVOA7

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
10061-01-5	cis-1,3-Dichloropropene		0.00095	0.0013	
10061-02-6	trans-1,3-Dichloropropene		0.00097	0.0013	
100-41-4	Ethylbenzene		0.00072	0.0025	
591-78-6	2-Hexanone (MBK)		0.0086	0.025	
98-82-8	Isopropylbenzene (Cumene)		0.00097	0.0025	
99-87-6	p-Isopropyltoluene (p-Cymene)		0.00081	0.0025	
79-20-9	Methyl Acetate		0.0017	0.0025	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.0011	0.0050	
108-87-2	Methyl Cyclohexane		0.00090	0.0025	
75-09-2	Methylene Chloride		0.0012	0.025	
108-10-1	4-Methyl-2-pentanone (MIBK)		0.011	0.025	
91-20-3	Naphthalene		0.0012	0.0050	
103-65-1	n-Propylbenzene		0.00083	0.0025	
100-42-5	Styrene		0.00080	0.0025	
79-34-5	1,1,2,2-Tetrachloroethane		0.00097	0.0013	
127-18-4	Tetrachloroethylene		0.0011	0.0025	
108-88-3	Toluene		0.00074	0.0025	
87-61-6	1,2,3-Trichlorobenzene		0.00083	0.0025	
120-82-1	1,2,4-Trichlorobenzene		0.00083	0.0025	
71-55-6	1,1,1-Trichloroethane		0.00074	0.0025	
79-00-5	1,1,2-Trichloroethane		0.00065	0.0025	
79-01-6	Trichloroethylene		0.00095	0.0025	
75-69-4	Trichlorofluoromethane (Freon 11)		0.0015	0.013	
96-18-4	1,2,3-Trichloropropane		0.0010	0.0025	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.0013	0.013	
95-63-6	1,2,4-Trimethylbenzene		0.0012	0.0025	
108-67-8	1,3,5-Trimethylbenzene		0.0010	0.0025	
75-01-4	Vinyl Chloride		0.00098	0.013	
179601-23-1	m+p Xylene		0.0018	0.0050	
95-47-6	o-Xylene		0.00085	0.0025	

1 - FORM I
ANALYSIS DATA SHEET

SB1A

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-06	File ID:	G24V13409.D
Sampled:	05/08/24 14:19	Prepared:	05/13/24 04:00	Analyzed:	05/13/24 07:16
Solids:	72.51	Preparation:	SW-846 5035	Dilution:	1
Initial/Final:	5.49 g / 10 mL				
Batch:	B374129	Sequence:	S104464	Calibration:	2400276
				Instrument:	GCMSVOA7

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
1330-20-7	Xylenes (total)		0.0025	0.0025	

Quantitation Report (QT Reviewed)

Data Path : X:\1\data\G051324\
Data File : G24V13409.D
Acq On : 13 May 2024 7:16 am
Operator :
Sample : 24E1437-06 Inst : GCMSVOA7
Misc :
ALS Vial : 9 Sample Multiplier: 1

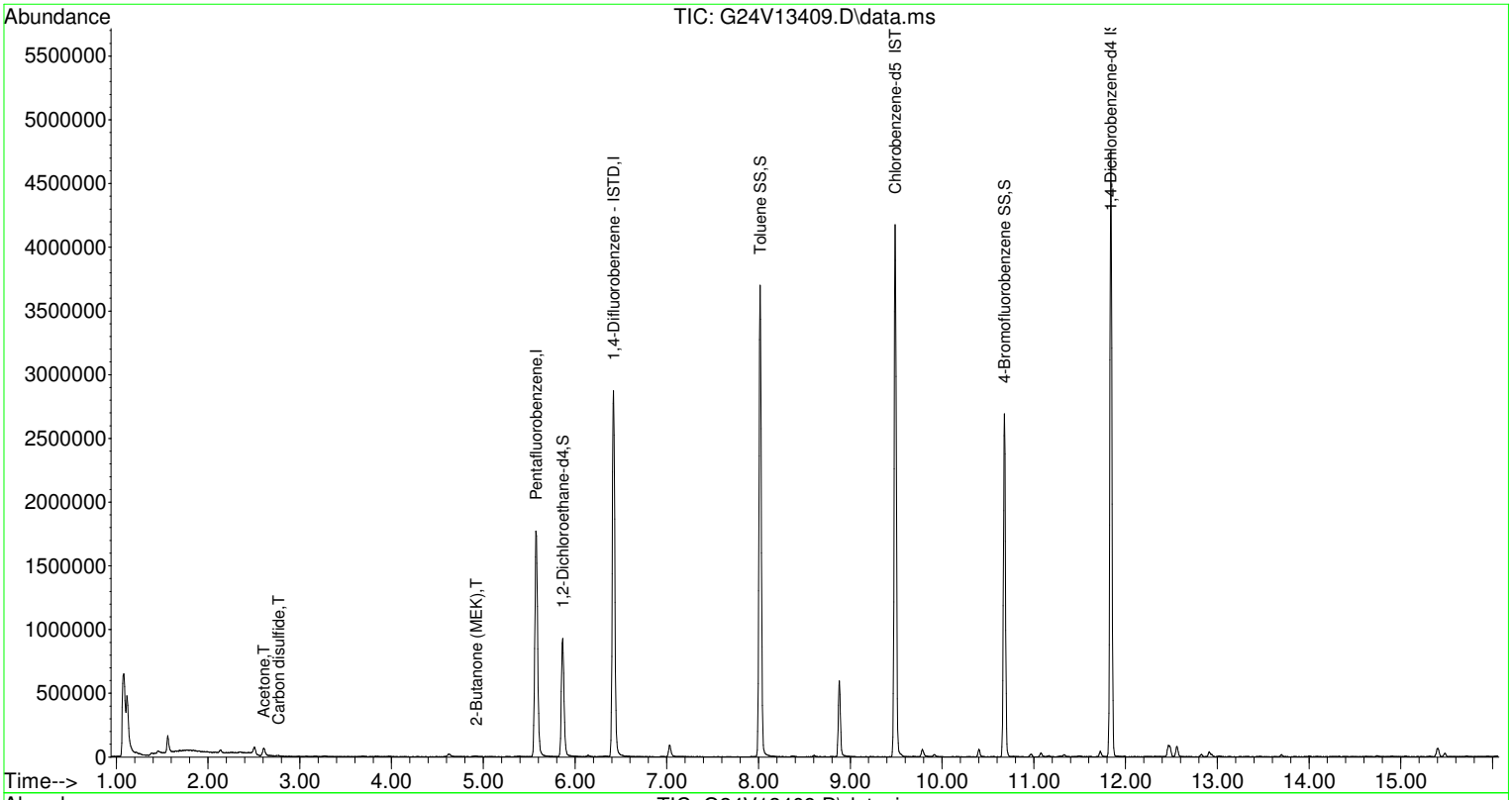
Quant Time: May 13 07:36:10 2024
Quant Method : X:\1\methods\GS030124.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Fri Mar 01 13:48:51 2024
Response via : Initial Calibration

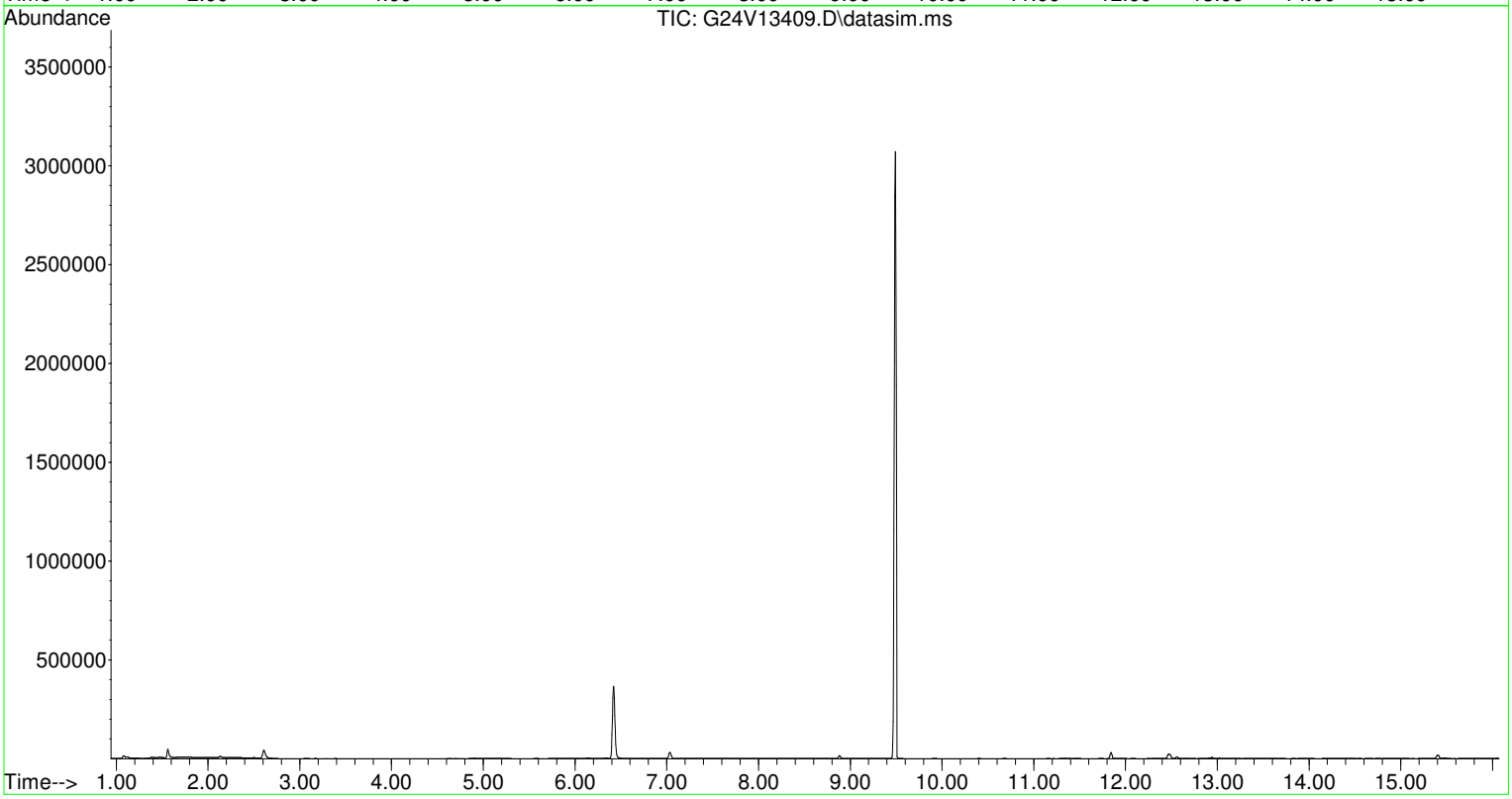
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.574	168	1495550	30.00	ug/L	0.00
49) 1,4-Difluorobenzene - ...	6.420	114	2672837	30.00	ug/L	0.00
72) Chlorobenzene-d5 ISTD	9.488	82	1058119	30.00	ug/L	# 0.00
91) 1,4-Dichlorobenzene-d4...	11.840	152	1259175	30.00	ug/L	-0.01
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	5.866	65	601071	25.67	ug/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 102.68%			
50) Toluene SS	8.016	98	2447571	23.17	ug/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 92.68%			
73) 4-Bromofluorobenzene SS	10.681	95	867924	20.72	ug/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 82.88%			
Target Compounds						Qvalue
14) Acetone	2.605	43	88134	9.75	ug/L	88
23) Carbon disulfide	2.767	76	9512	0.36	ug/L #	70
31) 2-Butanone (MEK)	4.924	43	7110	0.66	ug/L	91

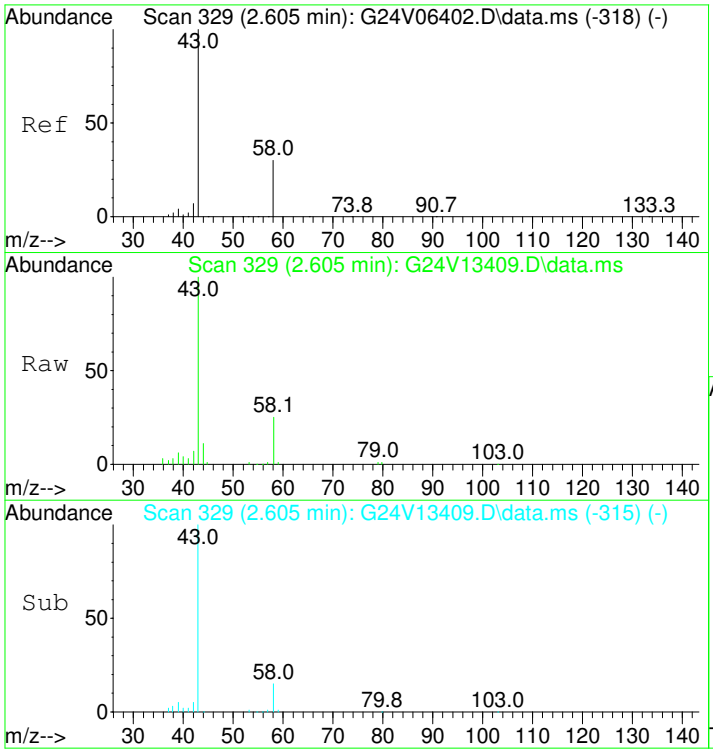
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\1\data\G051324\
Data File : G24V13409.D
Acq On : 13 May 2024 7:16 am
Operator :
Sample : 24E1437-06 Inst : GCMSVOA7
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 13 07:36:10 2024
Quant Method : X:\1\methods\GS030124.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Fri Mar 01 13:48:51 2024
Response via : Initial Calibration



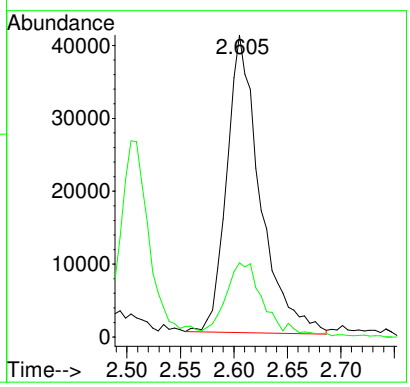


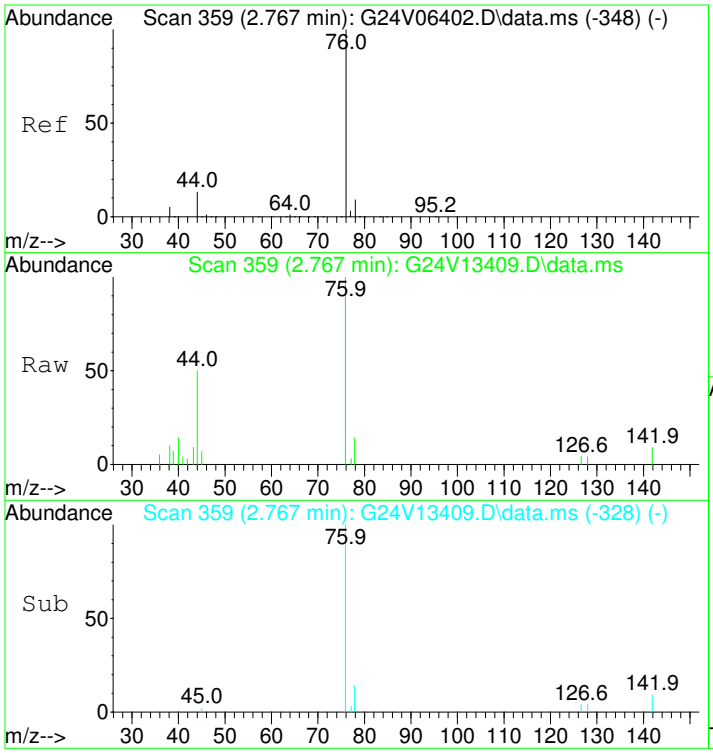


#14
Acetone
Concen: 9.75 ug/L
RT: 2.605 min Scan# 329
Delta R.T. 0.000 min
Lab File: G24V13409.D
Acq: 13 May 2024 7:16 am

Tgt Ion: 43 Resp: 88134

Ion	Ratio	Lower	Upper
43	100		
58	27.9	14.5	54.5

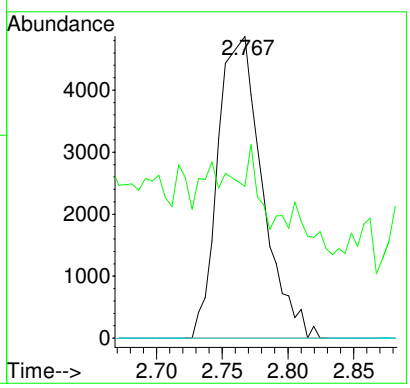


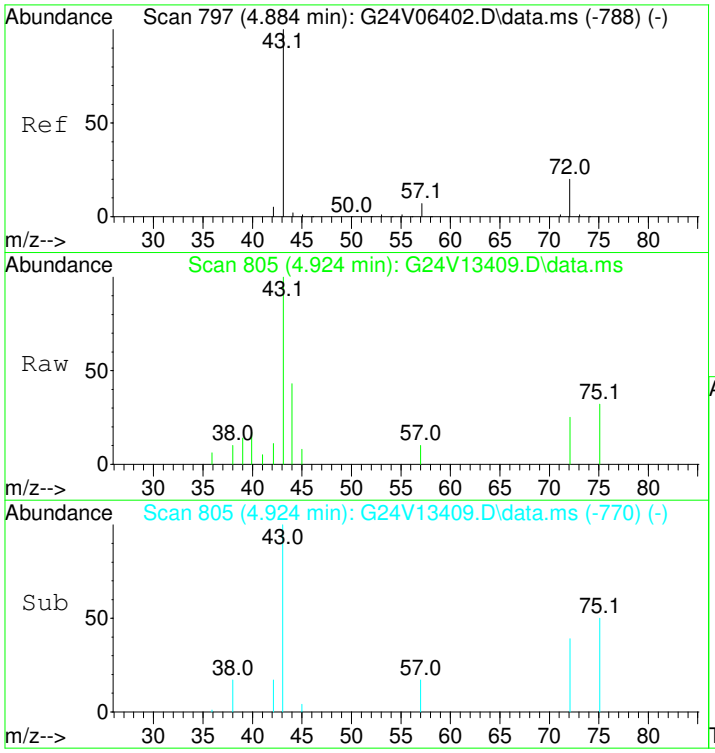


#23
Carbon disulfide
Concen: 0.36 ug/L
RT: 2.767 min Scan# 359
Delta R.T. 0.000 min
Lab File: G24V13409.D
Acq: 13 May 2024 7:16 am

Tgt Ion: 76 Resp: 9512

Ion	Ratio	Lower	Upper
76	100		
44	0.0	0.0	31.7
32	0.0	0.0	20.0

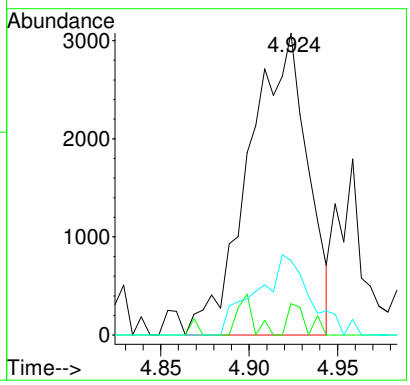




#31
2-Butanone (MEK)
Concen: 0.66 ug/L
RT: 4.924 min Scan# 805
Delta R.T. 0.040 min
Lab File: G24V13409.D
Acq: 13 May 2024 7:16 am

Tgt Ion: 43 Resp: 7110

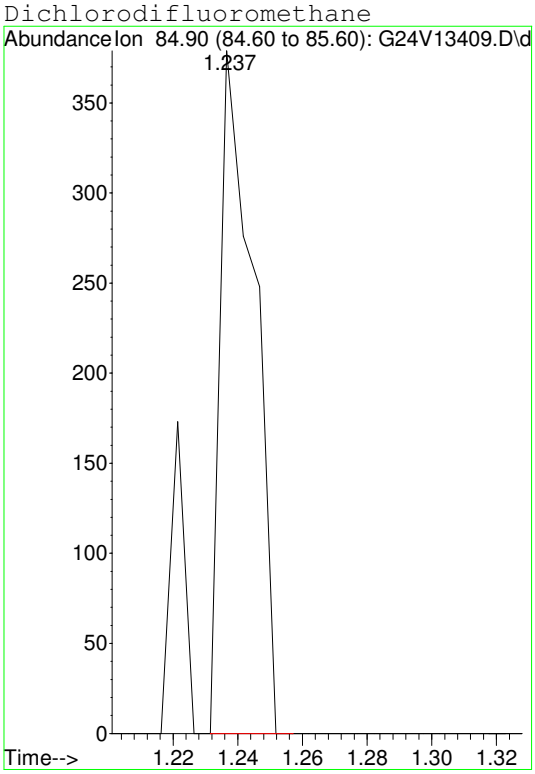
Ion	Ratio	Lower	Upper
43	100		
57	3.4	0.0	28.9
72	24.6	8.6	48.6



Data Path : X:\1\data\G051324\
Data File : G24V13409.D
Acq On : 13 May 2024 7:16 am
Operator :
Sample : 24E1437-06
Misc :

Quant Time : Mon May 13 07:36:10 2024
Quant Method : X:\1\methods\GS030124.M
QLast Update : Fri Mar 01 13:48:51 2024

Original Integration
Dichlorodifluoromethane



Original Int. Results

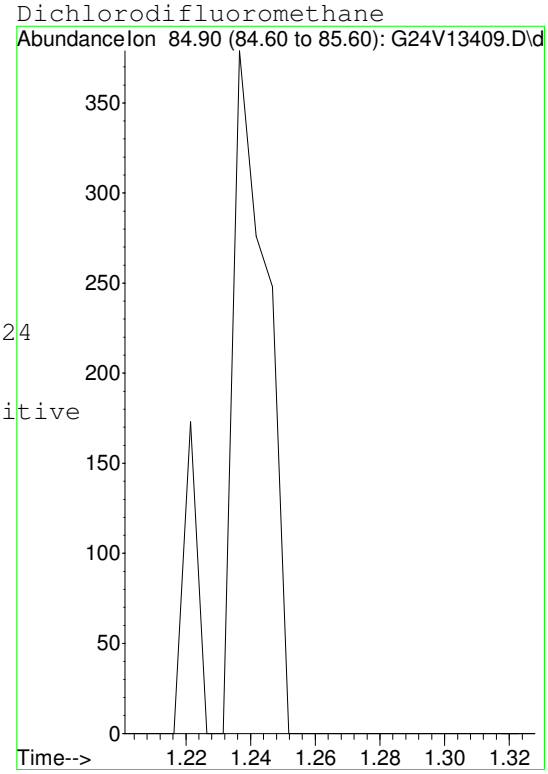
RT : 1.24
Area : 275
Amount: 1.00573

Manual Int. Results

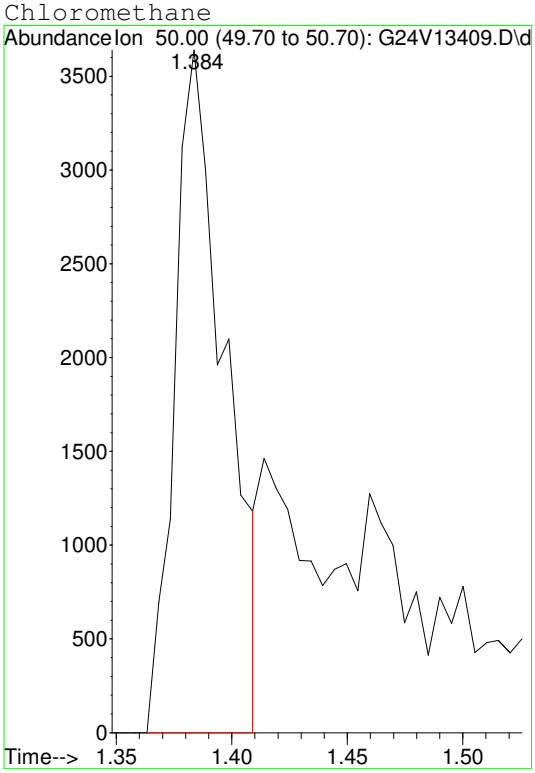
Mon May 13 07:35:09 2024

MIuser: MFF
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration
Dichlorodifluoromethane



Original Integration
Chloromethane



Original Int. Results

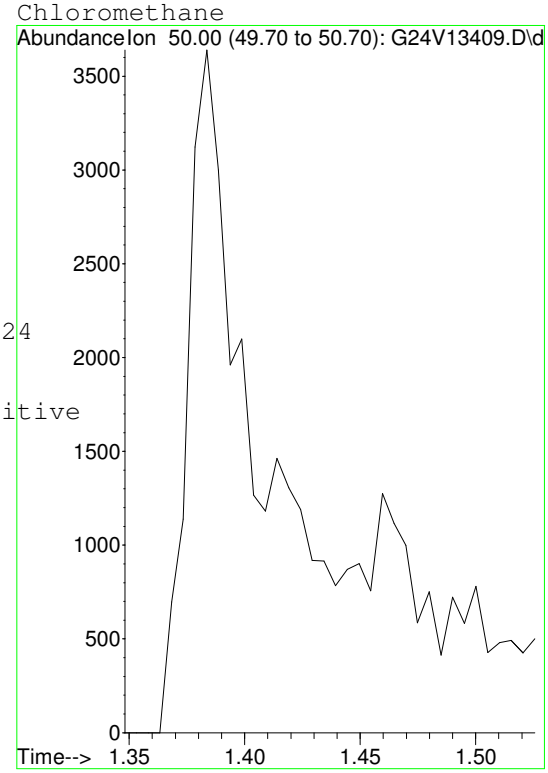
RT : 1.38
Area : 5506
Amount: 0.145927

Manual Int. Results

Mon May 13 07:35:15 2024

MIuser: MFF
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

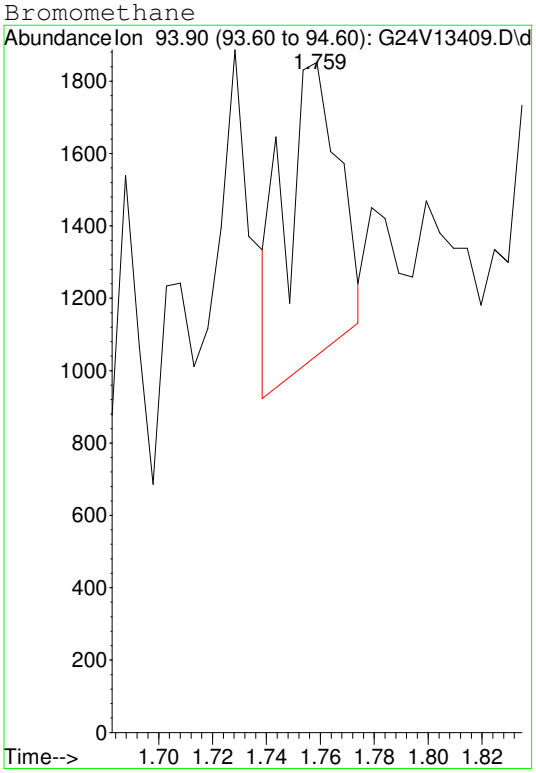
Manual Integration
Chloromethane



Data Path : X:\1\data\G051324\
Data File : G24V13409.D
Acq On : 13 May 2024 7:16 am
Operator :
Sample : 24E1437-06
Misc :

Quant Time : Mon May 13 07:36:10 2024
Quant Method : X:\1\methods\GS030124.M
QLast Update : Fri Mar 01 13:48:51 2024

Original Integration
Bromomethane



Original Int. Results

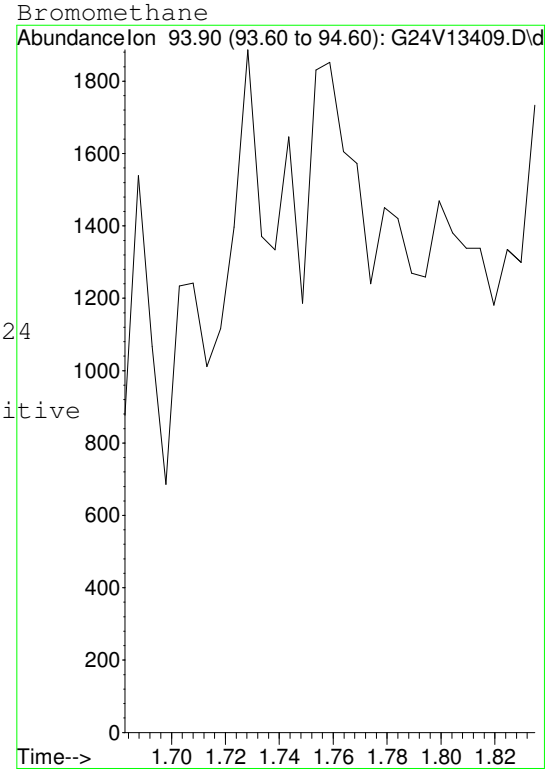
RT : 1.76
Area : 1139
Amount: 0.13556

Manual Int. Results

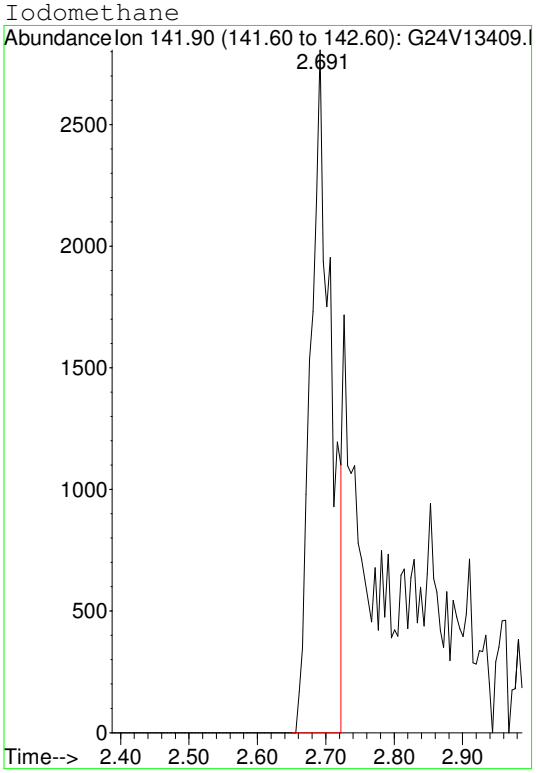
Mon May 13 07:35:18 2024

MIuser: MFF
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration
Bromomethane



Original Integration
Iodomethane



Original Int. Results

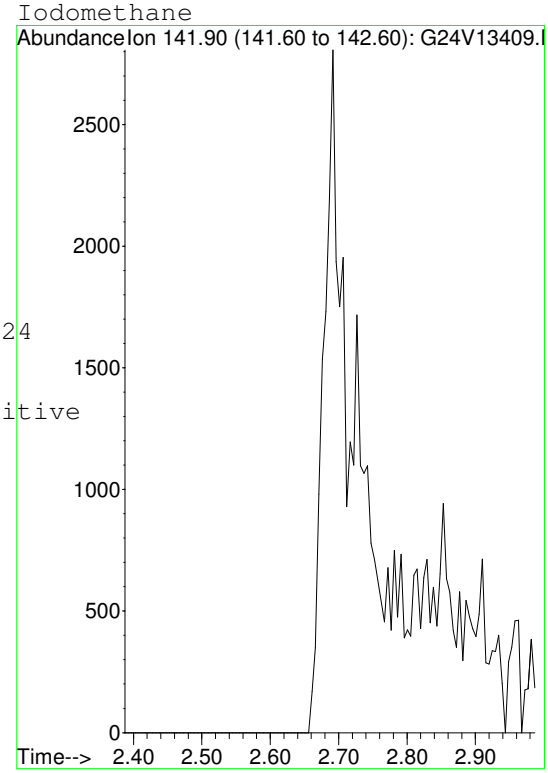
RT : 2.69
Area : 5668
Amount: 0.213002

Manual Int. Results

Mon May 13 07:35:40 2024

MIuser: MFF
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

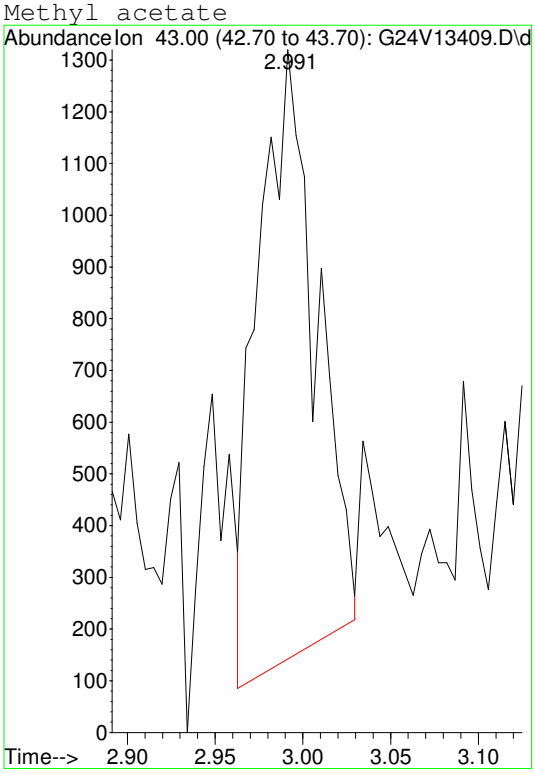
Manual Integration
Iodomethane



Data Path : X:\1\data\G051324\
Data File : G24V13409.D
Acq On : 13 May 2024 7:16 am
Operator :
Sample : 24E1437-06
Misc :

Quant Time : Mon May 13 07:36:10 2024
Quant Method : X:\1\methods\GS030124.M
QLast Update : Fri Mar 01 13:48:51 2024

Original Integration
Methyl acetate



Original Int. Results

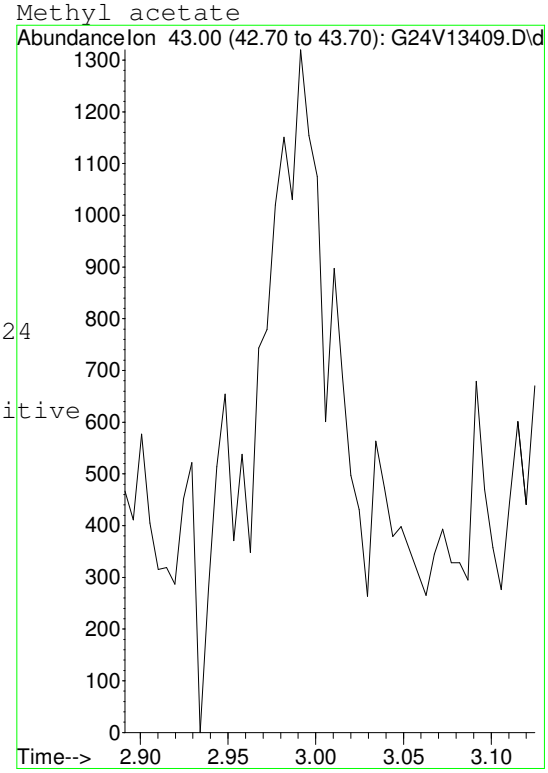
RT : 2.99
Area : 2726
Amount: 0.129109

Manual Int. Results

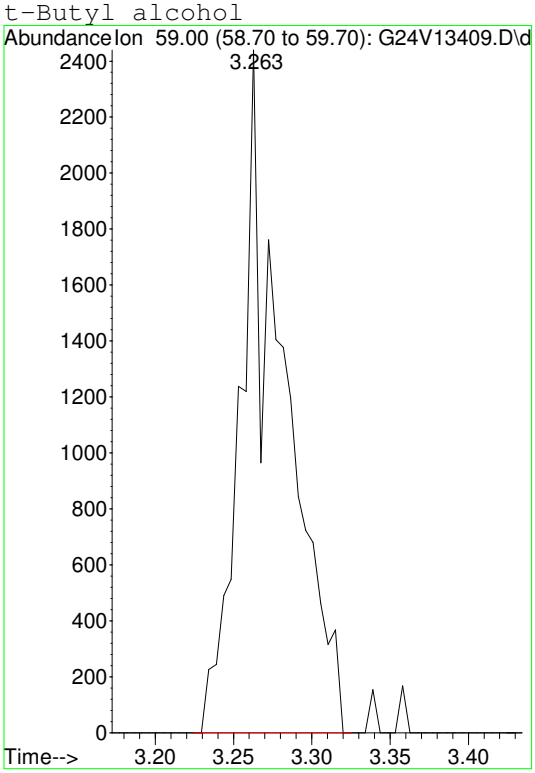
Mon May 13 07:35:43 2024

MIuser: MFF
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration
Methyl acetate



Original Integration
t-Butyl alcohol



Original Int. Results

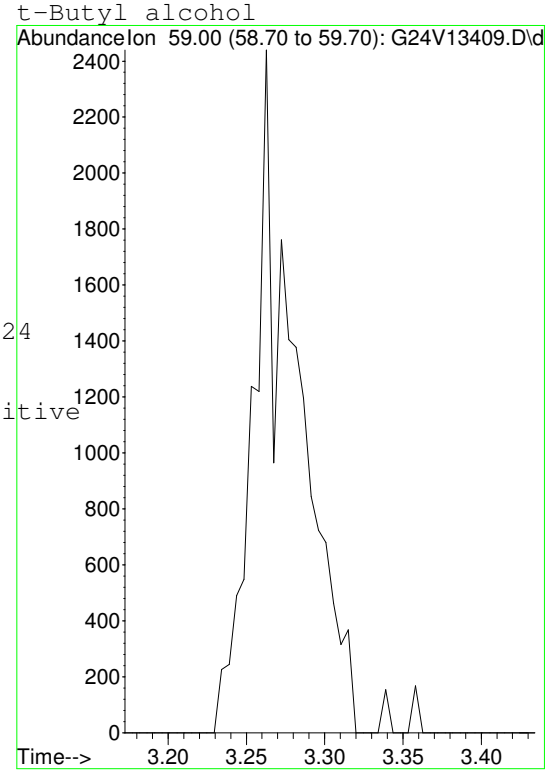
RT : 3.26
Area : 4713
Amount: 1.72477

Manual Int. Results

Mon May 13 07:35:49 2024

MIuser: MFF
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

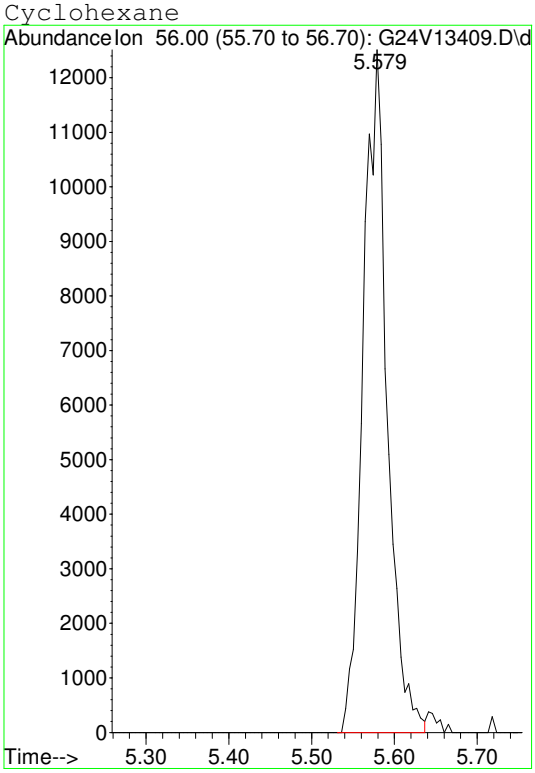
Manual Integration
t-Butyl alcohol



Data Path : X:\1\data\G051324\
Data File : G24V13409.D
Acq On : 13 May 2024 7:16 am
Operator :
Sample : 24E1437-06
Misc :

Quant Time : Mon May 13 07:36:10 2024
Quant Method : X:\1\methods\GS030124.M
QLast Update : Fri Mar 01 13:48:51 2024

Original Integration
Cyclohexane



Original Int. Results

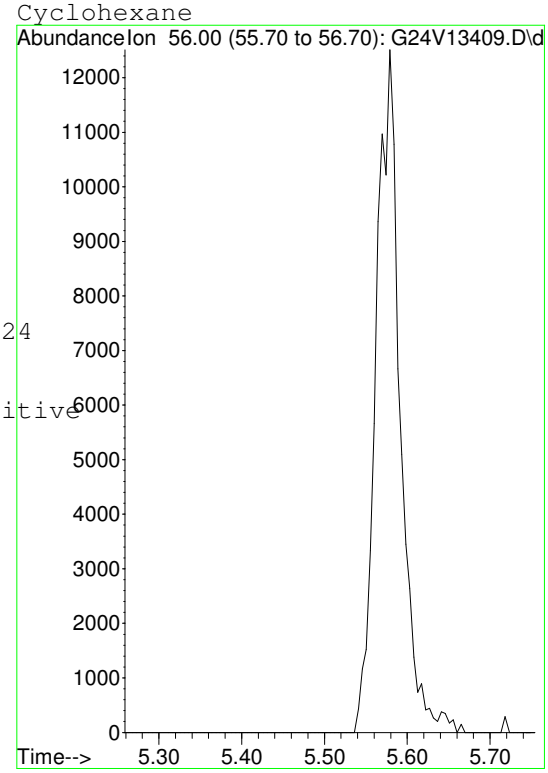
RT : 5.58
Area : 25254
Amount: 1.43967

Manual Int. Results

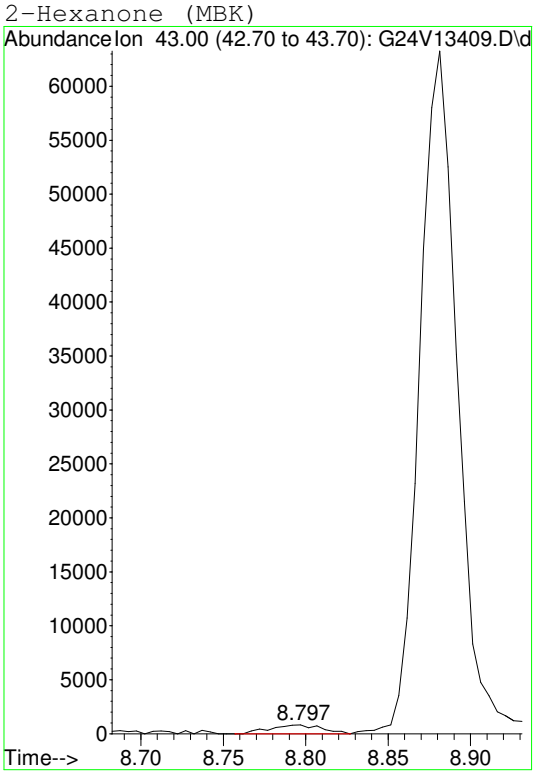
Mon May 13 07:36:03 2024

MIuser: MFF
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration
Cyclohexane



Original Integration
2-Hexanone (MBK)



Original Int. Results

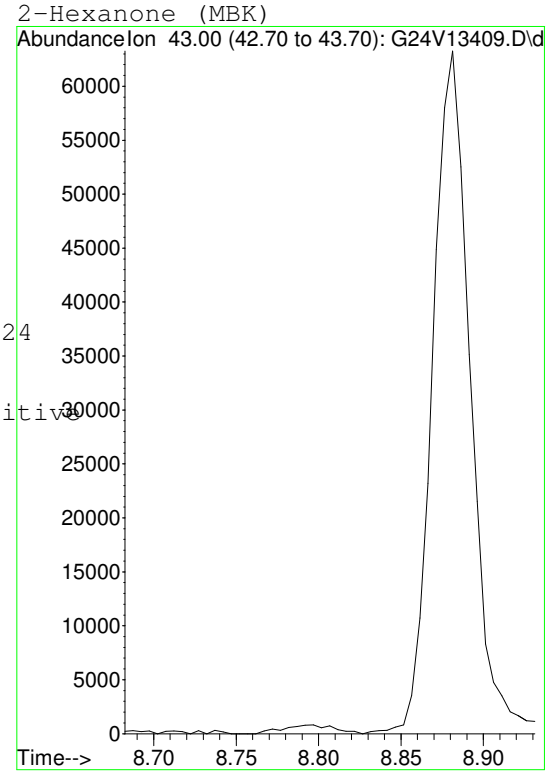
RT : 8.80
Area : 1770
Amount: 0.0993701

Manual Int. Results

Mon May 13 07:36:09 2024

MIuser: MFF
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration
2-Hexanone (MBK)



1 - FORM I
ANALYSIS DATA SHEET

SB4A

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-12	File ID:	G24V13415.D
Sampled:	05/08/24 14:53	Prepared:	05/13/24 04:00	Analyzed:	05/13/24 09:53
Solids:	77.87	Preparation:	SW-846 5035	Dilution:	1
Initial/Final:	5.97 g / 10 mL				
Batch:	B374129	Sequence:	S104464	Calibration:	2400276	Instrument:	GCMSVOA7

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
67-64-1	Acetone	0.056	0.056	0.11	V-35, J
71-43-2	Benzene		0.00067	0.0022	
74-97-5	Bromochloromethane		0.00092	0.0022	
75-27-4	Bromodichloromethane		0.00055	0.0022	
75-25-2	Bromoform		0.00094	0.0022	
74-83-9	Bromomethane		0.0019	0.011	
78-93-3	2-Butanone (MEK)		0.0091	0.043	
104-51-8	n-Butylbenzene		0.00078	0.0022	
135-98-8	sec-Butylbenzene		0.00086	0.0022	
98-06-6	tert-Butylbenzene		0.00078	0.0022	
75-15-0	Carbon Disulfide		0.011	0.022	
56-23-5	Carbon Tetrachloride		0.00062	0.0022	
108-90-7	Chlorobenzene		0.00052	0.0022	
124-48-1	Chlorodibromomethane		0.00071	0.0011	
75-00-3	Chloroethane		0.0015	0.022	
67-66-3	Chloroform		0.00070	0.0043	
74-87-3	Chloromethane		0.0013	0.011	
110-82-7	Cyclohexane		0.0044	0.011	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.00087	0.0022	
106-93-4	1,2-Dibromoethane (EDB)		0.00078	0.0011	
95-50-1	1,2-Dichlorobenzene		0.00069	0.0022	
541-73-1	1,3-Dichlorobenzene		0.00062	0.0022	
106-46-7	1,4-Dichlorobenzene		0.00067	0.0022	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.00094	0.022	V-05
75-34-3	1,1-Dichloroethane		0.00066	0.0022	
107-06-2	1,2-Dichloroethane		0.00074	0.0022	
75-35-4	1,1-Dichloroethylene		0.0010	0.0043	
156-59-2	cis-1,2-Dichloroethylene		0.00075	0.0022	
156-60-5	trans-1,2-Dichloroethylene		0.00064	0.0022	
78-87-5	1,2-Dichloropropane		0.00066	0.0022	

1 - FORM I
ANALYSIS DATA SHEET

SB4A

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-12	File ID:	G24V13415.D
Sampled:	05/08/24 14:53	Prepared:	05/13/24 04:00	Analyzed:	05/13/24 09:53
Solids:	77.87	Preparation:	SW-846 5035	Dilution:	1
Initial/Final:	5.97 g / 10 mL				
Batch:	B374129	Sequence:	S104464	Calibration:	2400276	Instrument:	GCMSVOA7

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
10061-01-5	cis-1,3-Dichloropropene		0.00082	0.0011	
10061-02-6	trans-1,3-Dichloropropene		0.00083	0.0011	
100-41-4	Ethylbenzene		0.00062	0.0022	
591-78-6	2-Hexanone (MBK)		0.0074	0.022	
98-82-8	Isopropylbenzene (Cumene)		0.00083	0.0022	
99-87-6	p-Isopropyltoluene (p-Cymene)		0.00070	0.0022	
79-20-9	Methyl Acetate		0.0014	0.0022	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.00095	0.0043	
108-87-2	Methyl Cyclohexane		0.00077	0.0022	
75-09-2	Methylene Chloride		0.0010	0.022	
108-10-1	4-Methyl-2-pentanone (MIBK)		0.0095	0.022	
91-20-3	Naphthalene		0.0011	0.0043	
103-65-1	n-Propylbenzene		0.00071	0.0022	
100-42-5	Styrene		0.00068	0.0022	
79-34-5	1,1,2,2-Tetrachloroethane		0.00083	0.0011	
127-18-4	Tetrachloroethylene		0.00094	0.0022	
108-88-3	Toluene		0.00064	0.0022	
87-61-6	1,2,3-Trichlorobenzene		0.00071	0.0022	
120-82-1	1,2,4-Trichlorobenzene		0.00071	0.0022	
71-55-6	1,1,1-Trichloroethane		0.00064	0.0022	
79-00-5	1,1,2-Trichloroethane		0.00055	0.0022	
79-01-6	Trichloroethylene		0.00081	0.0022	
75-69-4	Trichlorofluoromethane (Freon 11)		0.0013	0.011	
96-18-4	1,2,3-Trichloropropane		0.00087	0.0022	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.0011	0.011	
95-63-6	1,2,4-Trimethylbenzene		0.0010	0.0022	
108-67-8	1,3,5-Trimethylbenzene		0.00086	0.0022	
75-01-4	Vinyl Chloride		0.00084	0.011	
179601-23-1	m+p Xylene		0.0016	0.0043	
95-47-6	o-Xylene		0.00073	0.0022	

1 - FORM I
ANALYSIS DATA SHEET

SB4A

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-12	File ID:	G24V13415.D
Sampled:	05/08/24 14:53	Prepared:	05/13/24 04:00	Analyzed:	05/13/24 09:53
Solids:	77.87	Preparation:	SW-846 5035	Dilution:	1
Initial/Final:	5.97 g / 10 mL				
Batch:	B374129	Sequence:	S104464	Calibration:	2400276
				Instrument:	GCMSVOA7

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
1330-20-7	Xylenes (total)		0.0022	0.0022	

Quantitation Report (QT Reviewed)

Data Path : X:\1\data\G051324\
Data File : G24V13415.D
Acq On : 13 May 2024 9:53 am
Operator :
Sample : 24E1437-12 Inst : GCMSVOA7
Misc :
ALS Vial : 15 Sample Multiplier: 1

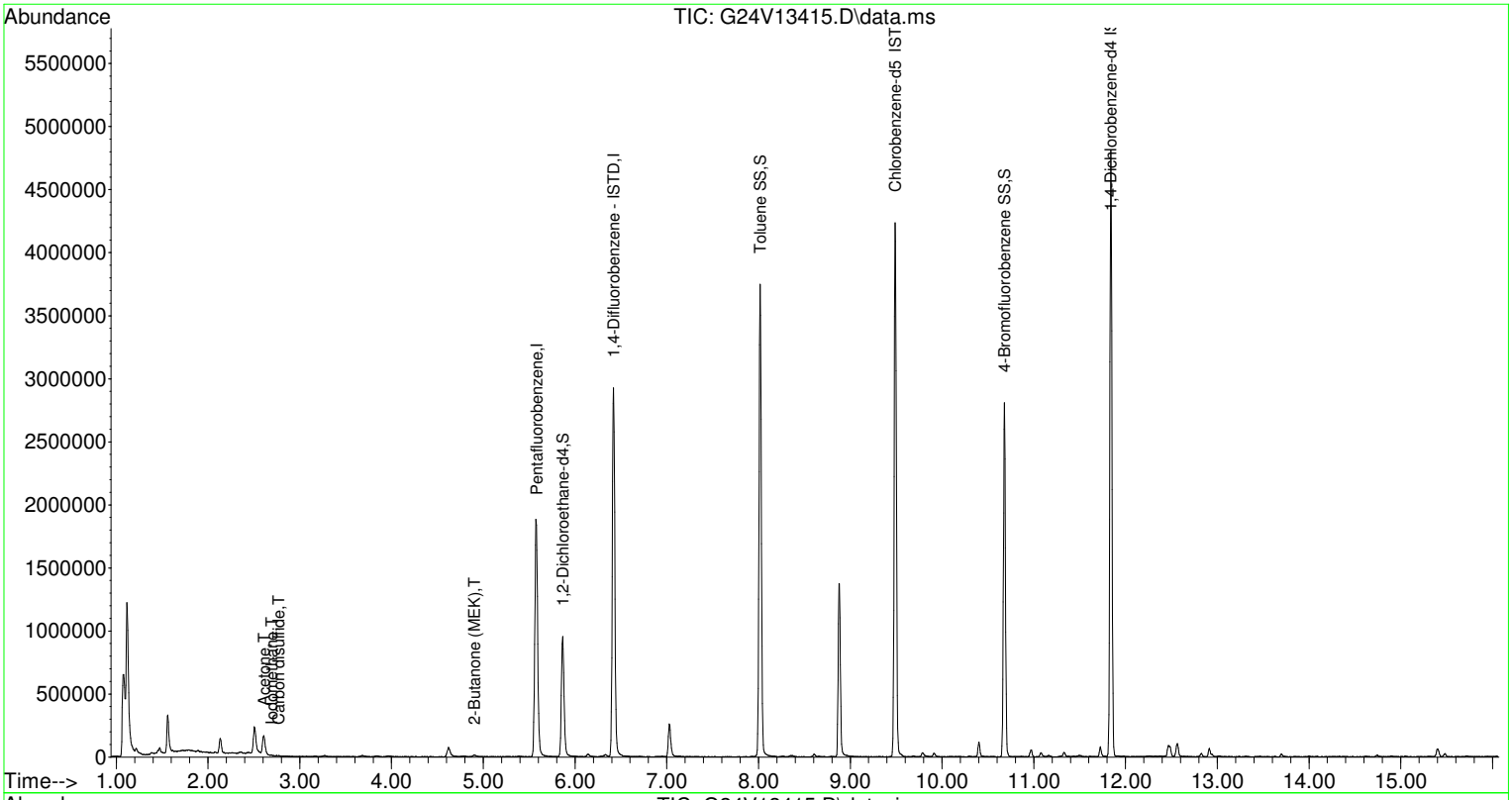
Quant Time: May 13 10:12:51 2024
Quant Method : X:\1\methods\GS030124.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Fri Mar 01 13:48:51 2024
Response via : Initial Calibration

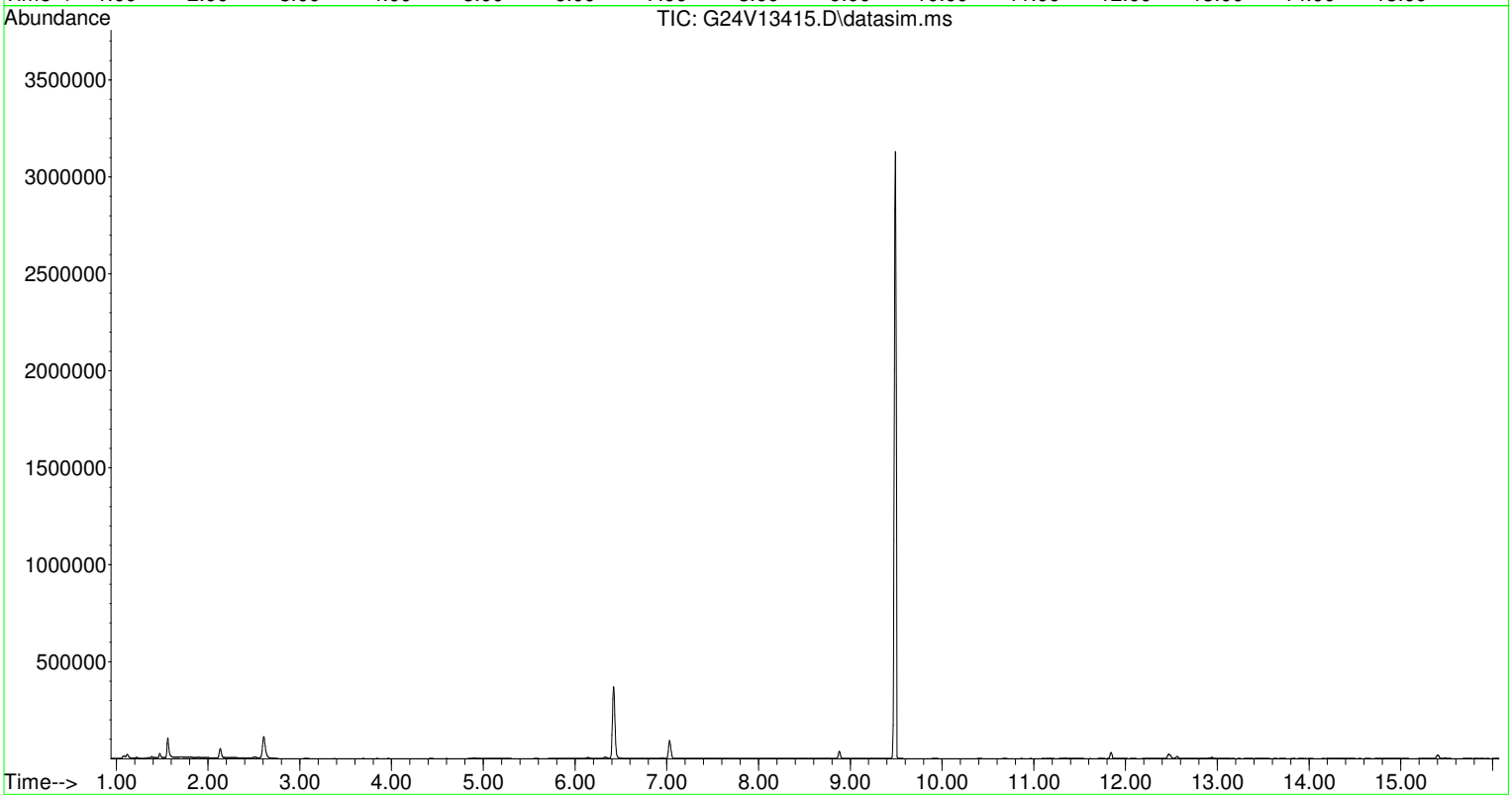
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.579	168	1497524	30.00	ug/L	0.00
49) 1,4-Difluorobenzene - ...	6.420	114	2730997	30.00	ug/L	0.00
72) Chlorobenzene-d5 ISTD	9.488	82	1049493	30.00	ug/L	# 0.00
91) 1,4-Dichlorobenzene-d4...	11.840	152	1292301	30.00	ug/L	-0.01
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	5.866	65	623892	26.61	ug/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 106.44%			
50) Toluene SS	8.016	98	2557391	23.69	ug/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 94.76%			
73) 4-Bromofluorobenzene SS	10.681	95	886234	21.33	ug/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 85.32%			
Target Compounds						Qvalue
14) Acetone	2.610	43	235459	26.01	ug/L	89
17) Iodomethane	2.691	142	7270	0.27	ug/L	94
23) Carbon disulfide	2.767	76	8609	0.33	ug/L #	93
31) 2-Butanone (MEK)	4.904	43	14847	1.37	ug/L	69

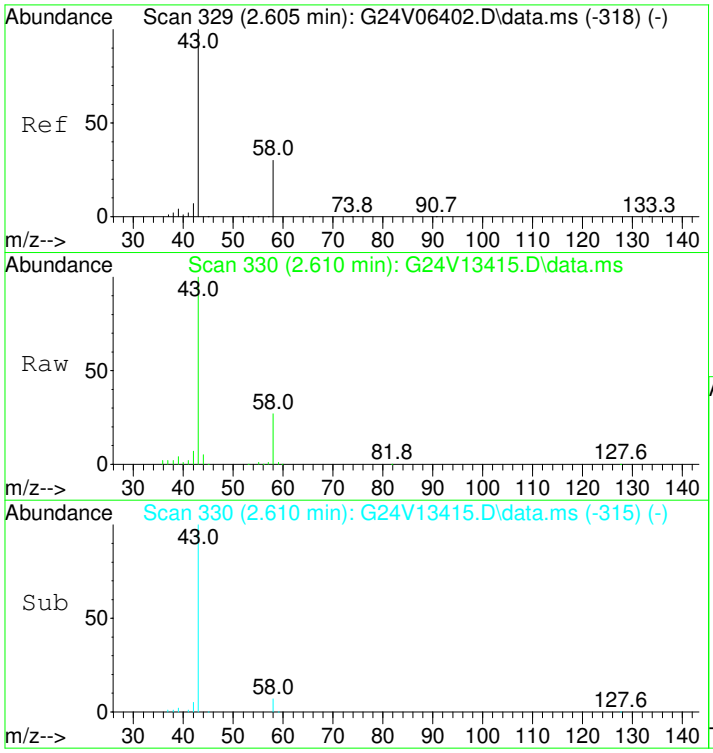
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\1\data\G051324\
Data File : G24V13415.D
Acq On : 13 May 2024 9:53 am
Operator :
Sample : 24E1437-12 Inst : GCMSVOA7
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 13 10:12:51 2024
Quant Method : X:\1\methods\GS030124.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Fri Mar 01 13:48:51 2024
Response via : Initial Calibration



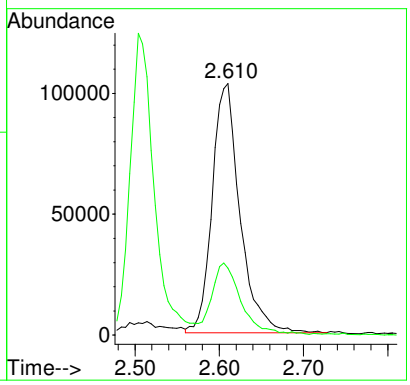


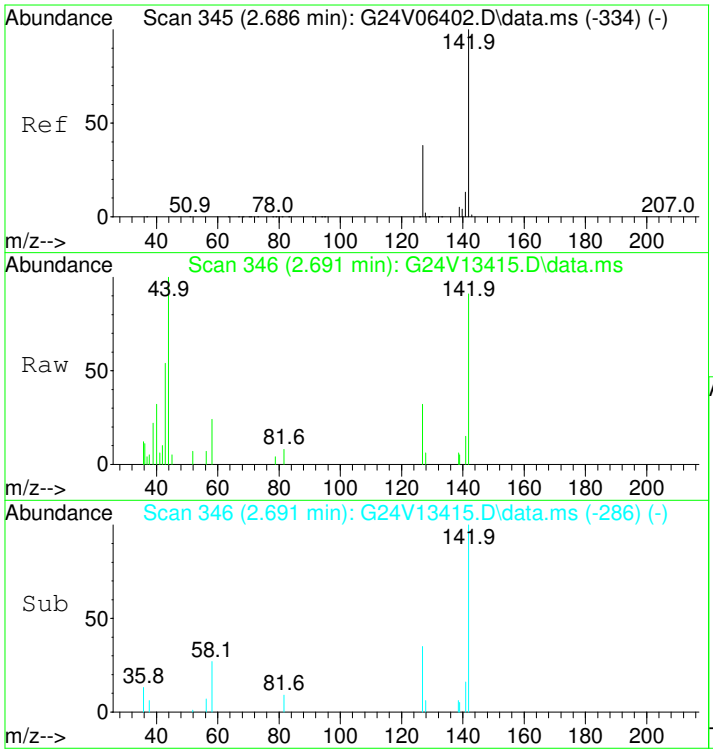


#14
Acetone
Concen: 26.01 ug/L
RT: 2.610 min Scan# 330
Delta R.T. 0.005 min
Lab File: G24V13415.D
Acq: 13 May 2024 9:53 am

Tgt Ion: 43 Resp: 235459

Ion	Ratio	Lower	Upper
43	100		
58	27.9	14.5	54.5

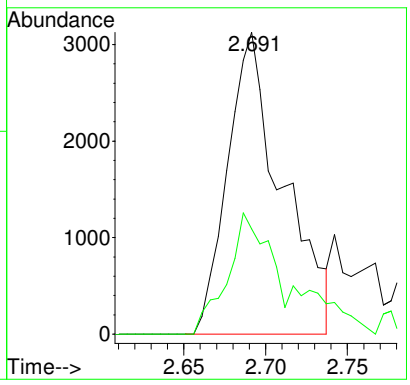


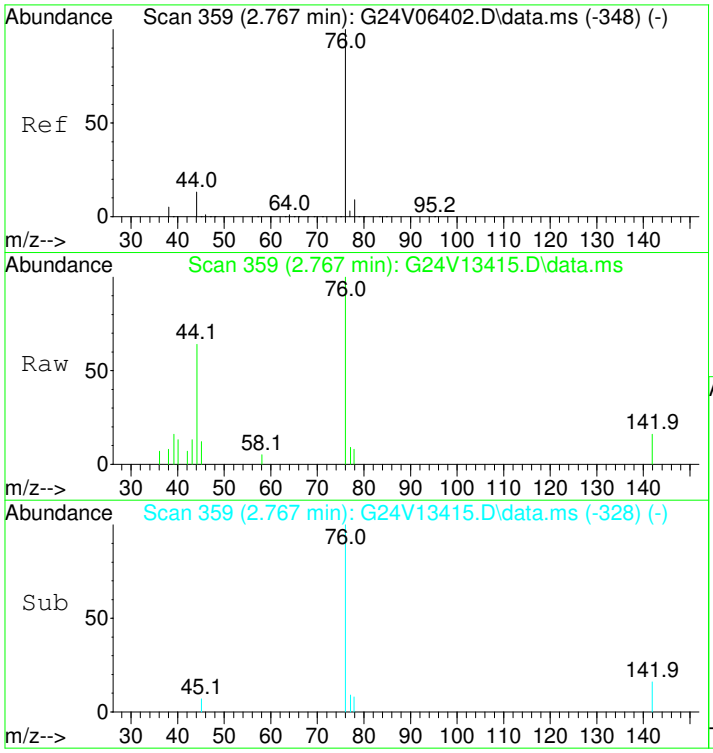


#17
Iodomethane
Concen: 0.27 ug/L
RT: 2.691 min Scan# 346
Delta R.T. 0.005 min
Lab File: G24V13415.D
Acq: 13 May 2024 9:53 am

Tgt Ion:142 Resp: 7270

Ion	Ratio	Lower	Upper
142	100		
127	35.0	19.0	59.0

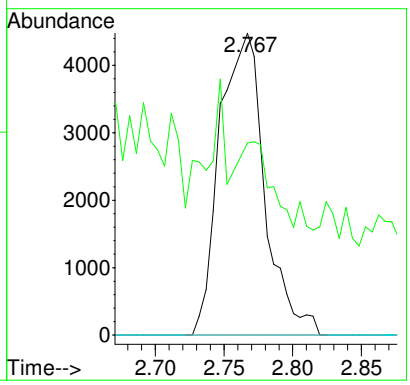


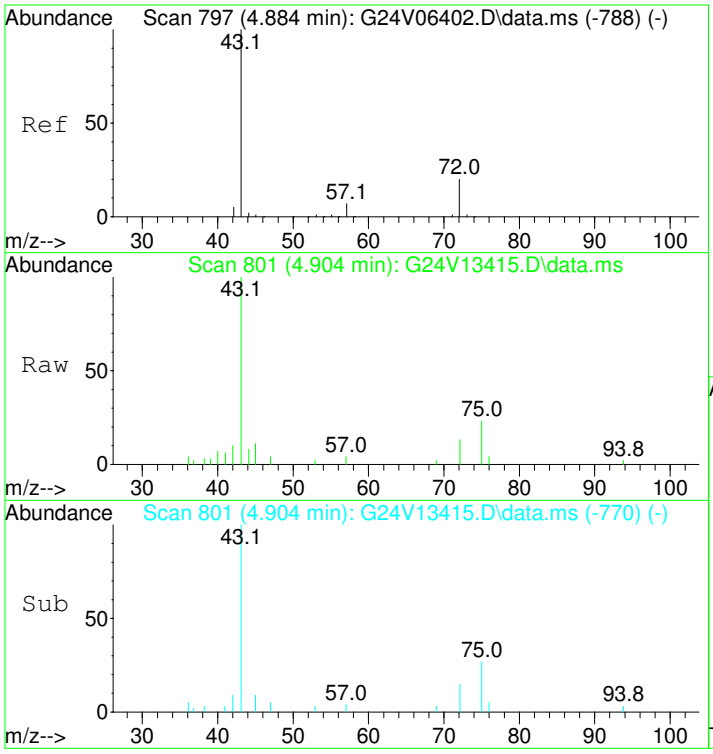


#23
Carbon disulfide
Concen: 0.33 ug/L
RT: 2.767 min Scan# 359
Delta R.T. 0.000 min
Lab File: G24V13415.D
Acq: 13 May 2024 9:53 am

Tgt Ion: 76 Resp: 8609

Ion	Ratio	Lower	Upper
76	100		
44	8.9	0.0	31.7
32	0.0	0.0	20.0

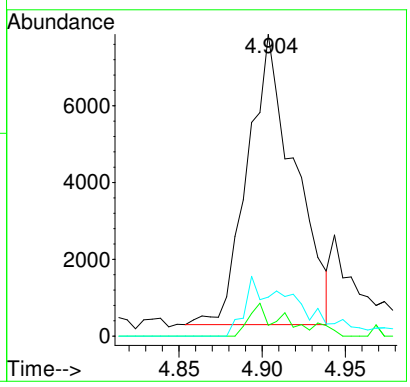




#31
2-Butanone (MEK)
Concen: 1.37 ug/L
RT: 4.904 min Scan# 801
Delta R.T. 0.020 min
Lab File: G24V13415.D
Acq: 13 May 2024 9:53 am

Tgt Ion: 43 Resp: 14847

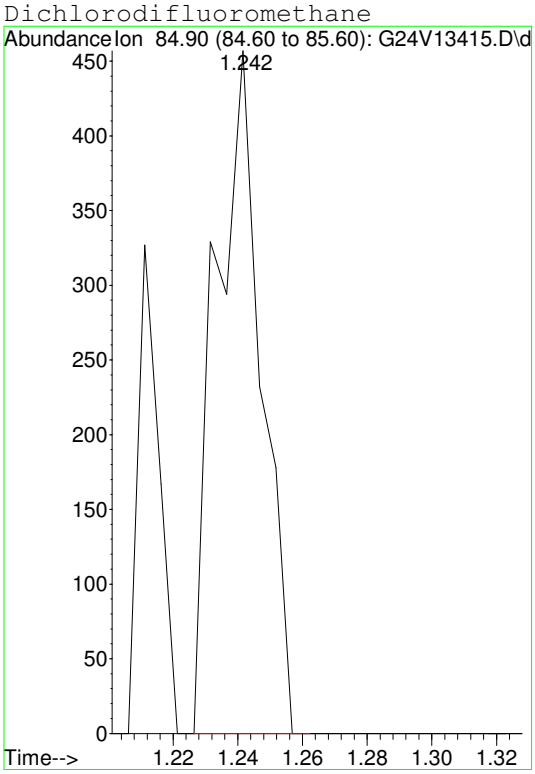
Ion	Ratio	Lower	Upper
43	100		
57	4.8	0.0	28.9
72	8.9	8.6	48.6



Data Path : X:\1\data\G051324\
Data File : G24V13415.D
Acq On : 13 May 2024 9:53 am
Operator :
Sample : 24E1437-12
Misc :

Quant Time : Mon May 13 10:12:51 2024
Quant Method : X:\1\methods\GS030124.M
QLast Update : Fri Mar 01 13:48:51 2024

Original Integration
Dichlorodifluoromethane



Original Int. Results

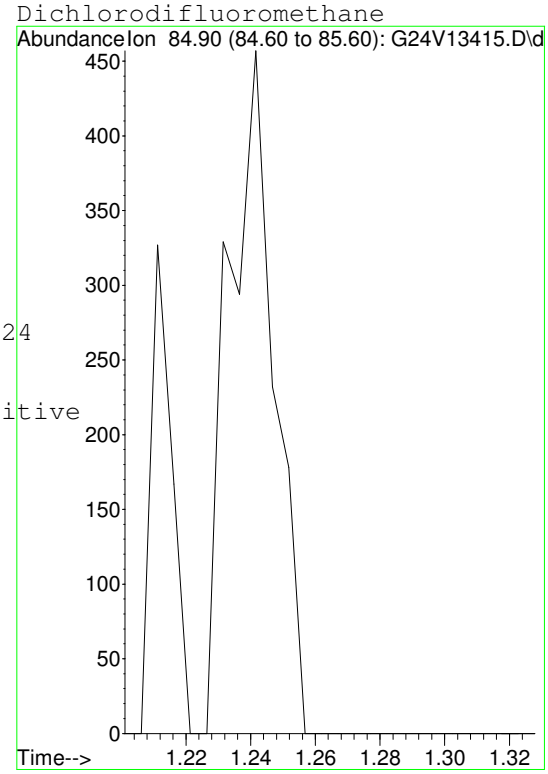
RT : 1.24
Area : 453
Amount: 1.01592

Manual Int. Results

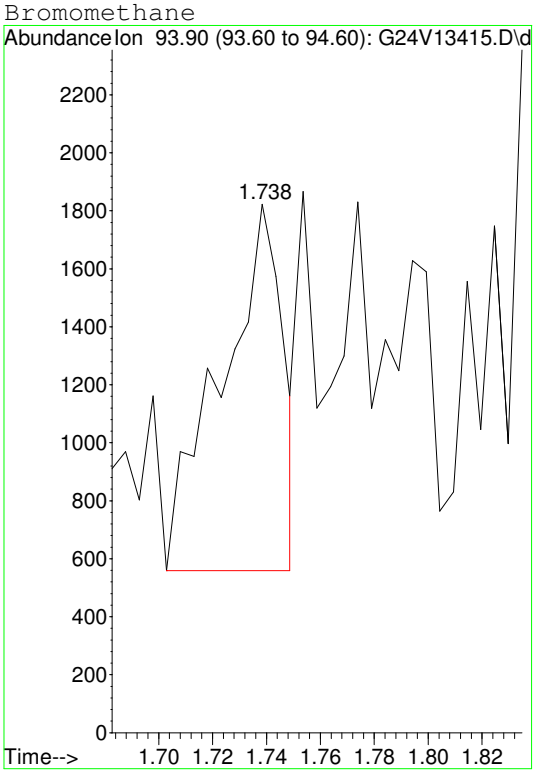
Mon May 13 10:12:16 2024

MIuser: MFF
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration
Dichlorodifluoromethane



Original Integration
Bromomethane



Original Int. Results

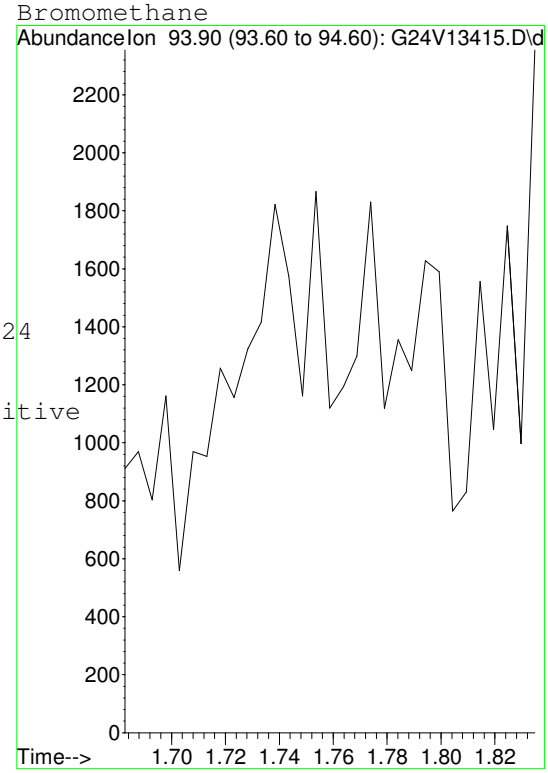
RT : 1.74
Area : 2009
Amount: 0.238789

Manual Int. Results

Mon May 13 10:12:19 2024

MIuser: MFF
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

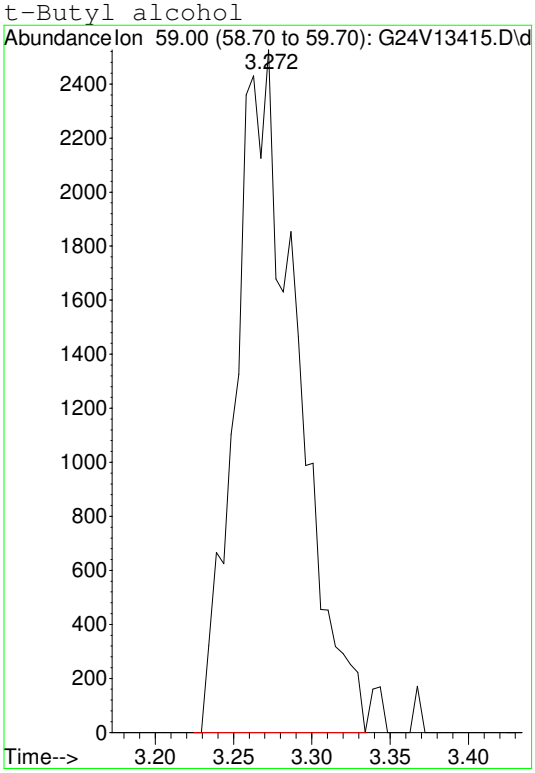
Manual Integration
Bromomethane



Data Path : X:\1\data\G051324\
Data File : G24V13415.D
Acq On : 13 May 2024 9:53 am
Operator :
Sample : 24E1437-12
Misc :

Quant Time : Mon May 13 10:12:51 2024
Quant Method : X:\1\methods\GS030124.M
QLast Update : Fri Mar 01 13:48:51 2024

Original Integration
t-Butyl alcohol



Original Int. Results

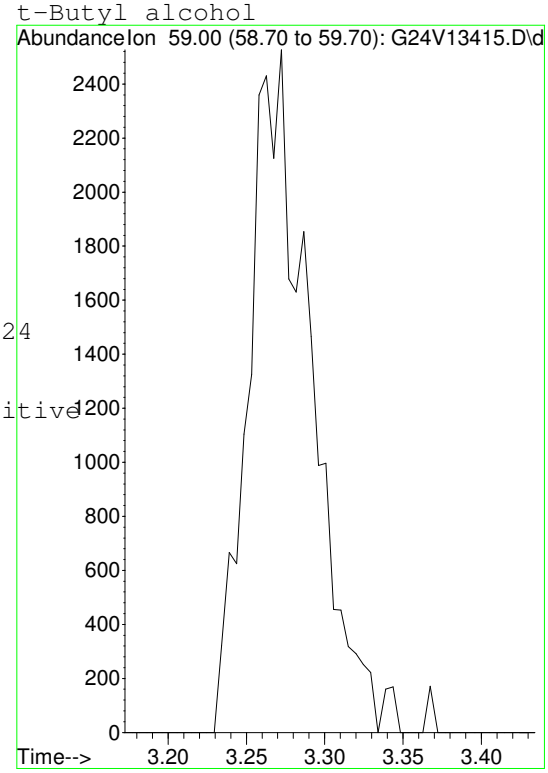
RT : 3.27
Area : 6879
Amount: 2.51412

Manual Int. Results

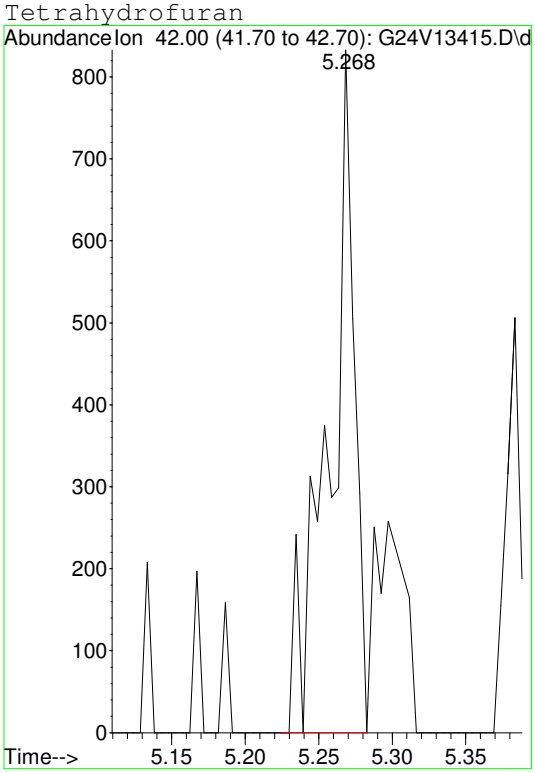
Mon May 13 10:12:24 2024

MIuser: MFF
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration
t-Butyl alcohol



Original Integration
Tetrahydrofuran



Original Int. Results

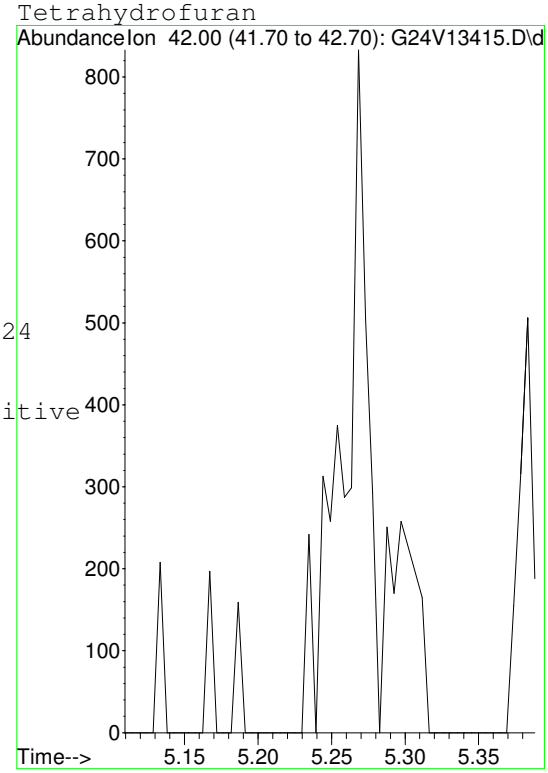
RT : 5.27
Area : 983
Amount: 0.122412

Manual Int. Results

Mon May 13 10:12:36 2024

MIuser: MFF
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

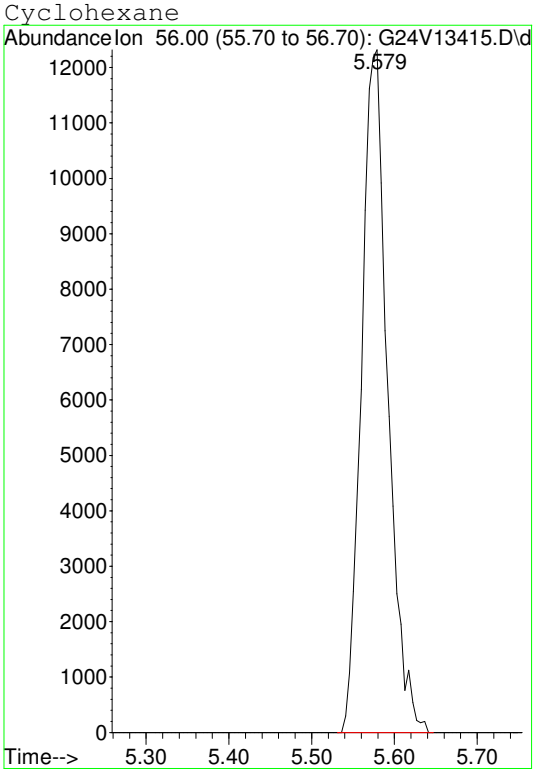
Manual Integration
Tetrahydrofuran



Data Path : X:\1\data\G051324\
Data File : G24V13415.D
Acq On : 13 May 2024 9:53 am
Operator :
Sample : 24E1437-12
Misc :

Quant Time : Mon May 13 10:12:51 2024
Quant Method : X:\1\methods\GS030124.M
QLast Update : Fri Mar 01 13:48:51 2024

Original Integration
Cyclohexane



Original Int. Results

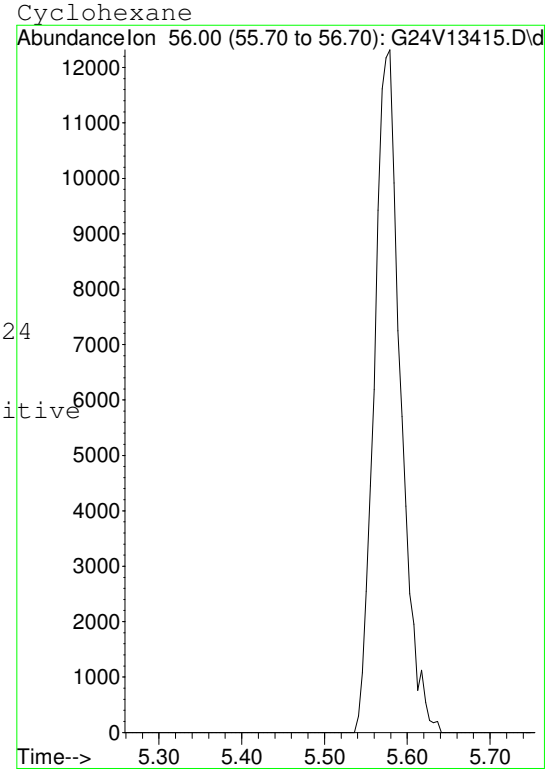
RT : 5.58
Area : 27089
Amount: 1.48449

Manual Int. Results

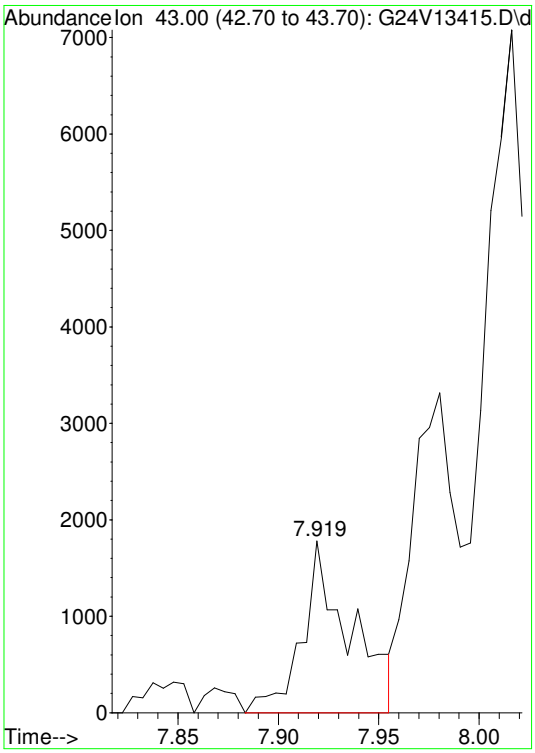
Mon May 13 10:12:38 2024

MIuser: MFF
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration
Cyclohexane



Original Integration
MIBK



Original Int. Results

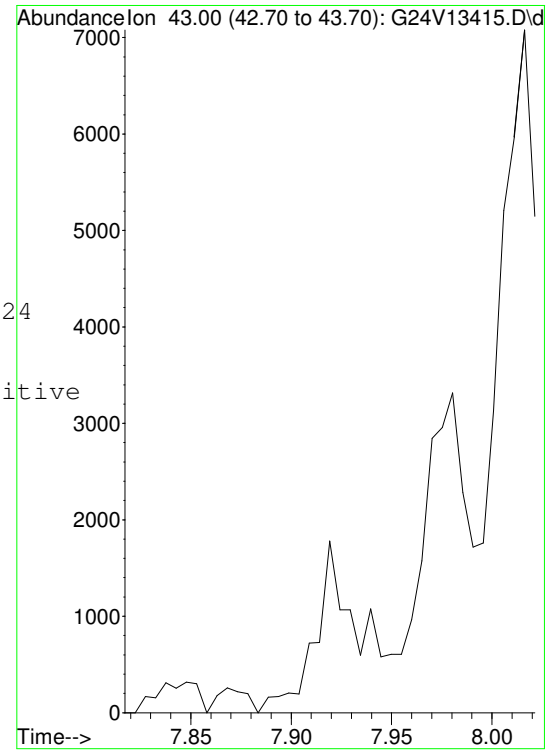
RT : 7.92
Area : 2922
Amount: 0.125449

Manual Int. Results

Mon May 13 10:12:46 2024

MIuser: MFF
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

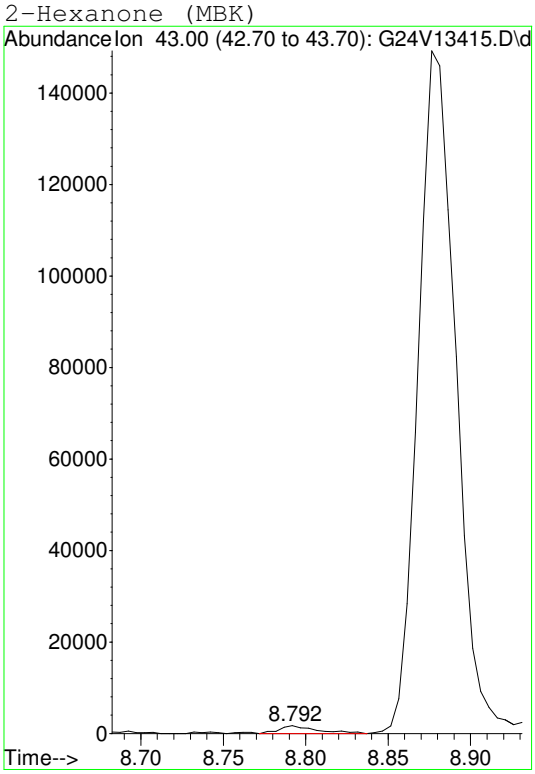
Manual Integration
MIBK



Data Path : X:\1\data\G051324\
Data File : G24V13415.D
Acq On : 13 May 2024 9:53 am
Operator :
Sample : 24E1437-12
Misc :

Quant Time : Mon May 13 10:12:51 2024
Quant Method : X:\1\methods\GS030124.M
QLast Update : Fri Mar 01 13:48:51 2024

Original Integration
2-Hexanone (MBK)



Original Int. Results

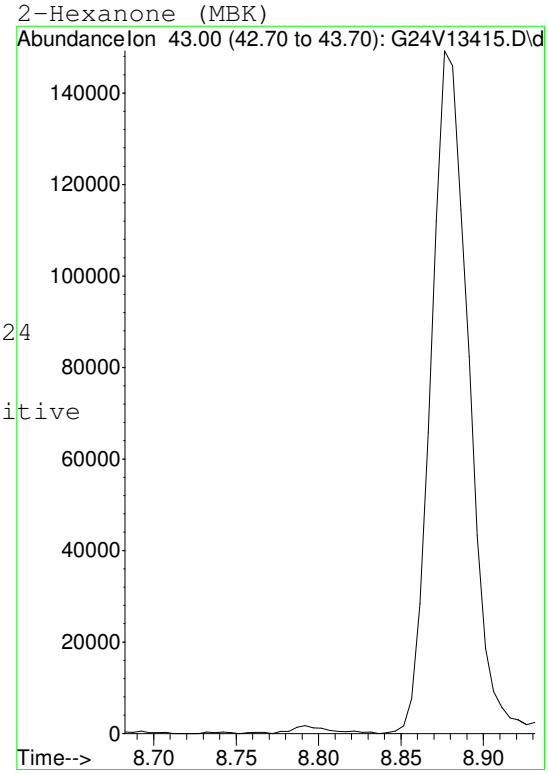
RT : 8.79
Area : 2693
Amount: 0.147969

Manual Int. Results

Mon May 13 10:12:50 2024

MIuser: MFF
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration
2-Hexanone (MBK)



1 - FORM I
ANALYSIS DATA SHEET

SB7

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-17	File ID:	G24V13416.D
Sampled:	05/08/24 15:39	Prepared:	05/13/24 04:00	Analyzed:	05/13/24 10:18
Solids:	69.34	Preparation:	SW-846 5035	Dilution:	1
Initial/Final:	4.78 g / 10 mL				
Batch:	B374129	Sequence:	S104464	Calibration:	2400276	Instrument:	GCMSVOA7

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
67-64-1	Acetone		0.078	0.15	
71-43-2	Benzene		0.00094	0.0030	
74-97-5	Bromochloromethane		0.0013	0.0030	
75-27-4	Bromodichloromethane		0.00077	0.0030	
75-25-2	Bromoform		0.0013	0.0030	
74-83-9	Bromomethane		0.0027	0.015	
78-93-3	2-Butanone (MEK)		0.013	0.060	
104-51-8	n-Butylbenzene		0.0011	0.0030	
135-98-8	sec-Butylbenzene		0.0012	0.0030	
98-06-6	tert-Butylbenzene		0.0011	0.0030	
75-15-0	Carbon Disulfide		0.015	0.030	
56-23-5	Carbon Tetrachloride		0.00087	0.0030	
108-90-7	Chlorobenzene		0.00073	0.0030	
124-48-1	Chlorodibromomethane		0.00099	0.0015	
75-00-3	Chloroethane		0.0021	0.030	
67-66-3	Chloroform		0.00099	0.0060	
74-87-3	Chloromethane		0.0018	0.015	
110-82-7	Cyclohexane		0.0061	0.015	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.0012	0.0030	
106-93-4	1,2-Dibromoethane (EDB)		0.0011	0.0015	
95-50-1	1,2-Dichlorobenzene		0.00097	0.0030	
541-73-1	1,3-Dichlorobenzene		0.00087	0.0030	
106-46-7	1,4-Dichlorobenzene		0.00094	0.0030	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.0013	0.030	V-05
75-34-3	1,1-Dichloroethane		0.00092	0.0030	
107-06-2	1,2-Dichloroethane		0.0010	0.0030	
75-35-4	1,1-Dichloroethylene		0.0014	0.0060	
156-59-2	cis-1,2-Dichloroethylene		0.0010	0.0030	
156-60-5	trans-1,2-Dichloroethylene		0.00090	0.0030	
78-87-5	1,2-Dichloropropane		0.00093	0.0030	

1 - FORM I
ANALYSIS DATA SHEET

SB7

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-17	File ID:	G24V13416.D
Sampled:	05/08/24 15:39	Prepared:	05/13/24 04:00	Analyzed:	05/13/24 10:18
Solids:	69.34	Preparation:	SW-846 5035	Dilution:	1
Initial/Final:	4.78 g / 10 mL				
Batch:	B374129	Sequence:	S104464	Calibration:	2400276	Instrument:	GCMSVOA7

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
10061-01-5	cis-1,3-Dichloropropene		0.0011	0.0015	
10061-02-6	trans-1,3-Dichloropropene		0.0012	0.0015	
100-41-4	Ethylbenzene		0.00087	0.0030	
591-78-6	2-Hexanone (MBK)		0.010	0.030	
98-82-8	Isopropylbenzene (Cumene)		0.0012	0.0030	
99-87-6	p-Isopropyltoluene (p-Cymene)		0.00098	0.0030	
79-20-9	Methyl Acetate	0.0022	0.0020	0.0030	J
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.0013	0.0060	
108-87-2	Methyl Cyclohexane		0.0011	0.0030	
75-09-2	Methylene Chloride		0.0014	0.030	
108-10-1	4-Methyl-2-pentanone (MIBK)		0.013	0.030	
91-20-3	Naphthalene		0.0015	0.0060	
103-65-1	n-Propylbenzene		0.0010	0.0030	
100-42-5	Styrene		0.00096	0.0030	
79-34-5	1,1,2,2-Tetrachloroethane		0.0012	0.0015	
127-18-4	Tetrachloroethylene		0.0013	0.0030	
108-88-3	Toluene		0.00089	0.0030	
87-61-6	1,2,3-Trichlorobenzene		0.0010	0.0030	
120-82-1	1,2,4-Trichlorobenzene		0.00099	0.0030	
71-55-6	1,1,1-Trichloroethane		0.00089	0.0030	
79-00-5	1,1,2-Trichloroethane		0.00078	0.0030	
79-01-6	Trichloroethylene		0.0011	0.0030	
75-69-4	Trichlorofluoromethane (Freon 11)		0.0018	0.015	
96-18-4	1,2,3-Trichloropropane		0.0012	0.0030	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.0016	0.015	
95-63-6	1,2,4-Trimethylbenzene		0.0015	0.0030	
108-67-8	1,3,5-Trimethylbenzene		0.0012	0.0030	
75-01-4	Vinyl Chloride		0.0012	0.015	
179601-23-1	m+p Xylene		0.0022	0.0060	
95-47-6	o-Xylene		0.0010	0.0030	

1 - FORM I
ANALYSIS DATA SHEET

SB7

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-17	File ID:	G24V13416.D
Sampled:	05/08/24 15:39	Prepared:	05/13/24 04:00	Analyzed:	05/13/24 10:18
Solids:	69.34	Preparation:	SW-846 5035	Dilution:	1
Initial/Final:	4.78 g / 10 mL				
Batch:	B374129	Sequence:	S104464	Calibration:	2400276
				Instrument:	GCMSVOA7

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
1330-20-7	Xylenes (total)		0.0030	0.0030	

Quantitation Report (QT Reviewed)

Data Path : X:\1\data\G051324\
Data File : G24V13416.D
Acq On : 13 May 2024 10:18 am
Operator :
Sample : 24E1437-17 Inst : GCMSVOA7
Misc :
ALS Vial : 16 Sample Multiplier: 1

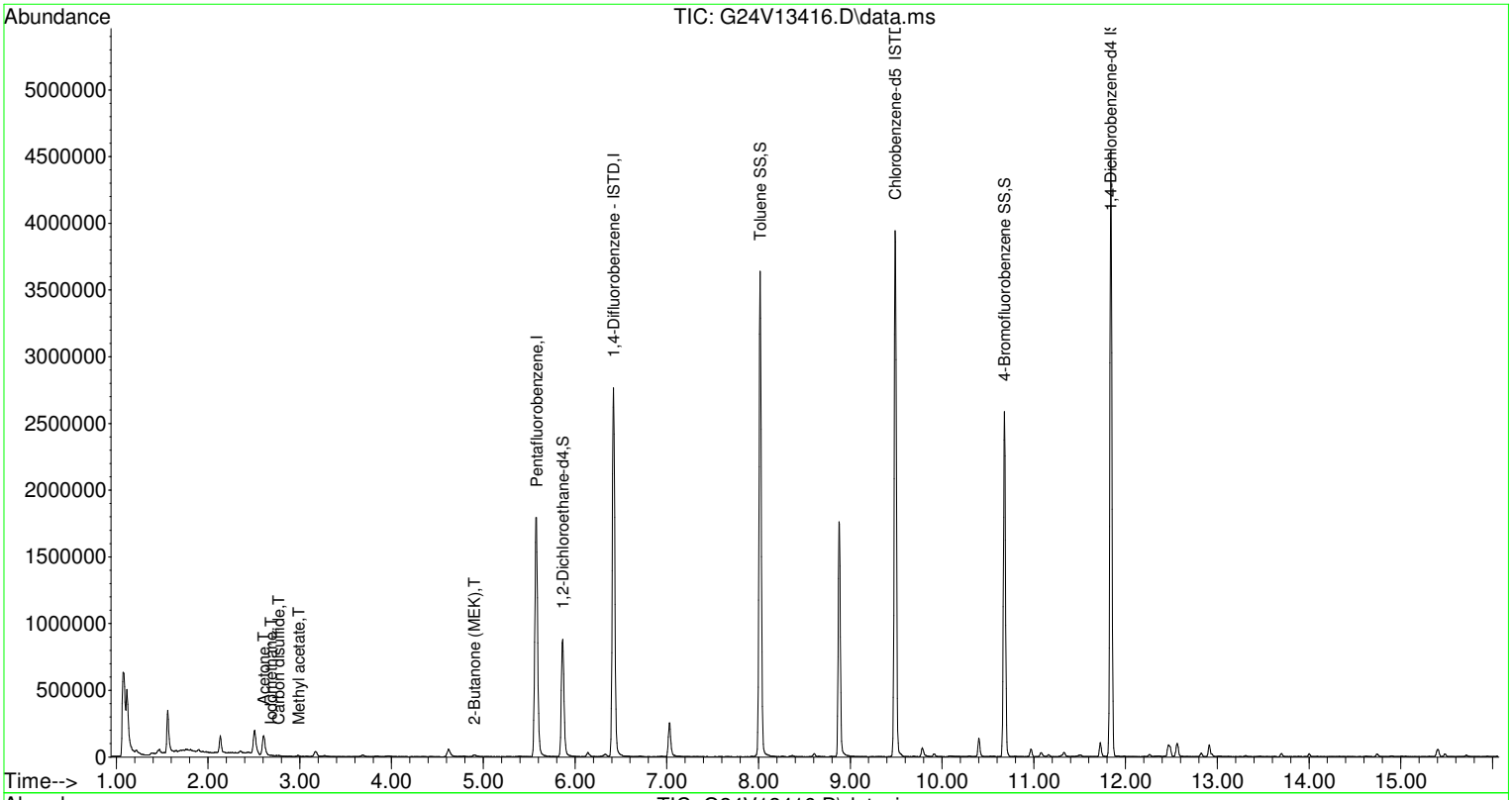
Quant Time: May 13 10:49:36 2024
Quant Method : X:\1\methods\GS030124.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Fri Mar 01 13:48:51 2024
Response via : Initial Calibration

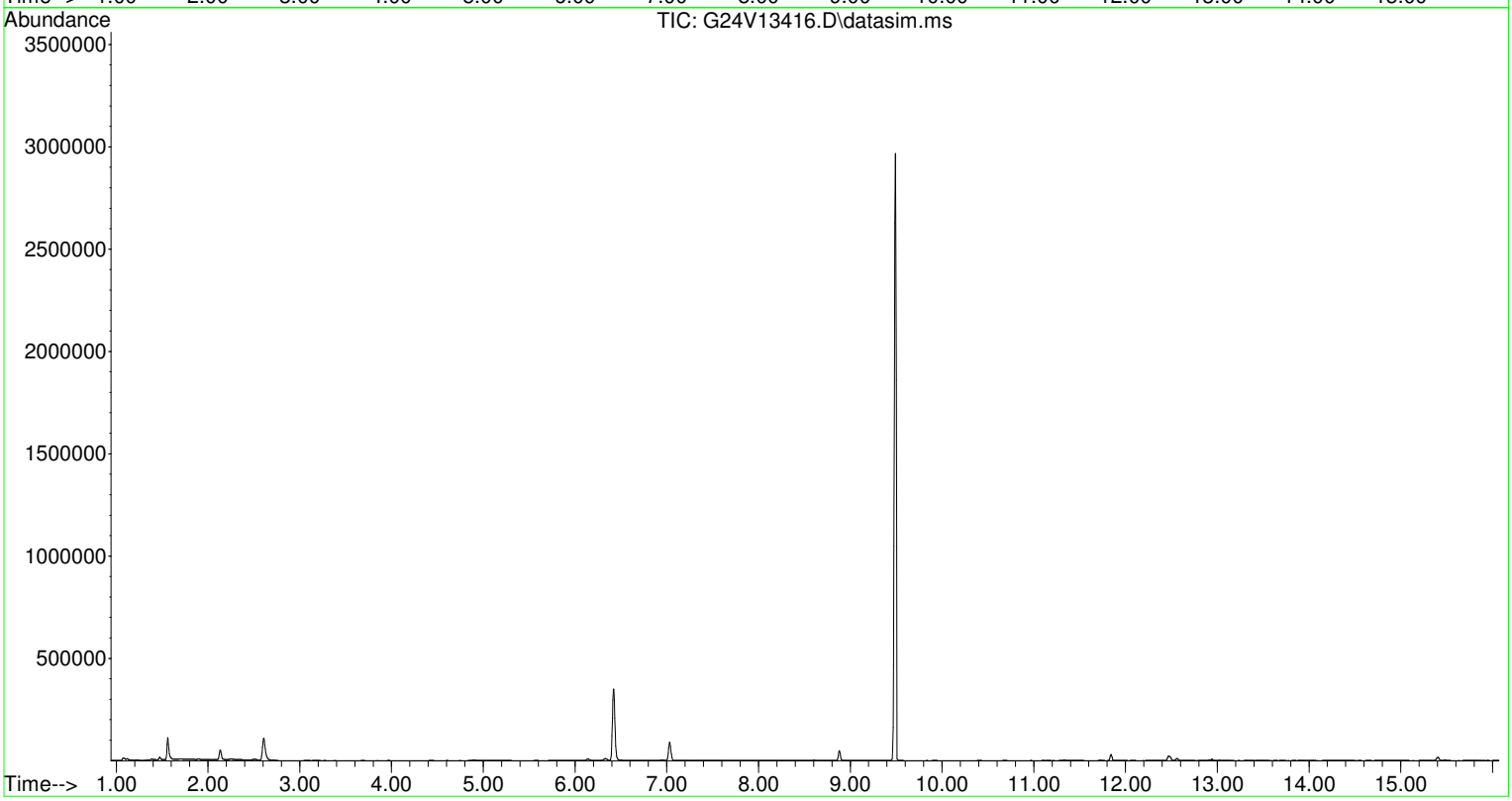
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.579	168	1501850	30.00	ug/L	0.00
49) 1,4-Difluorobenzene - ...	6.420	114	2539475	30.00	ug/L	0.00
72) Chlorobenzene-d5 ISTD	9.488	82	984275	30.00	ug/L	#-0.01
91) 1,4-Dichlorobenzene-d4...	11.840	152	1182348	30.00	ug/L	-0.01
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	5.866	65	577695	24.57	ug/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 98.28%			
50) Toluene SS	8.016	98	2309662	23.01	ug/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 92.04%			
73) 4-Bromofluorobenzene SS	10.681	95	834007	21.40	ug/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 85.60%			
Target Compounds						Qvalue
14) Acetone	2.605	43	228872	25.21	ug/L	84
17) Iodomethane	2.686	142	5343	0.20	ug/L	94
19) Methyl acetate	2.987	43	15209	0.72	ug/L	83
23) Carbon disulfide	2.767	76	7436	0.28	ug/L #	85
31) 2-Butanone (MEK)	4.904	43	18264	1.69	ug/L	87

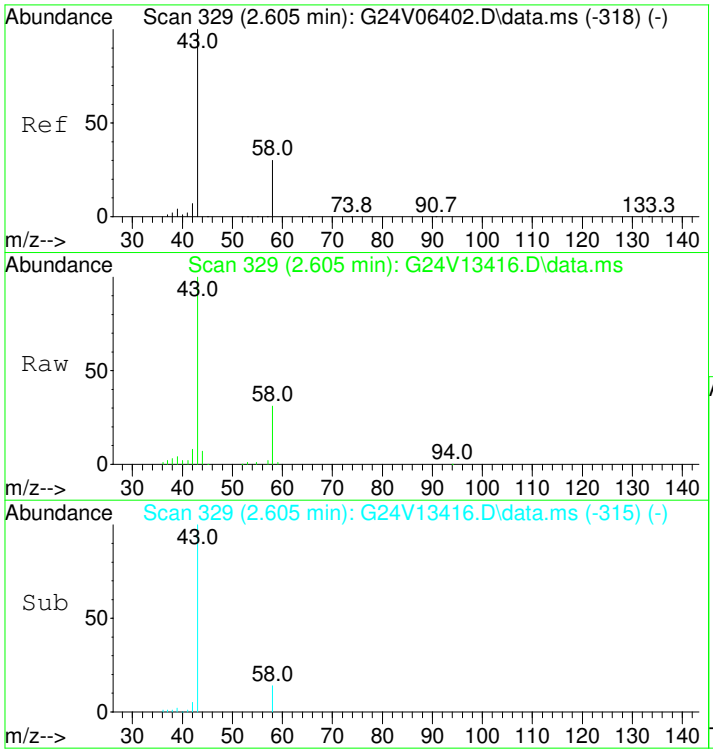
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\1\data\G051324\
Data File : G24V13416.D
Acq On : 13 May 2024 10:18 am
Operator :
Sample : 24E1437-17 Inst : GCMSVOA7
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 13 10:49:36 2024
Quant Method : X:\1\methods\GS030124.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Fri Mar 01 13:48:51 2024
Response via : Initial Calibration



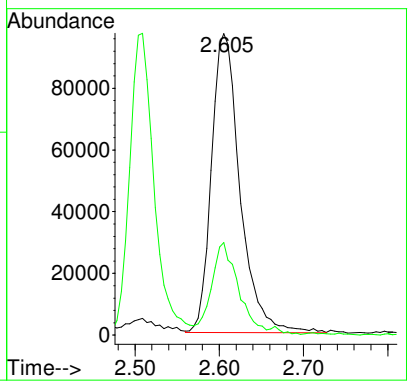


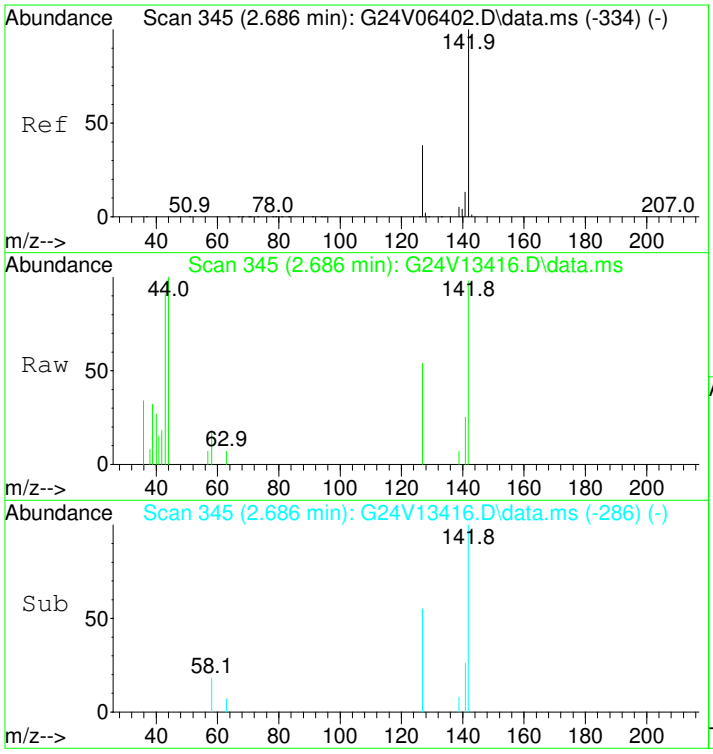


#14
Acetone
Concen: 25.21 ug/L
RT: 2.605 min Scan# 329
Delta R.T. 0.000 min
Lab File: G24V13416.D
Acq: 13 May 2024 10:18 am

Tgt Ion: 43 Resp: 228872

Ion	Ratio	Lower	Upper
43	100		
58	25.3	14.5	54.5

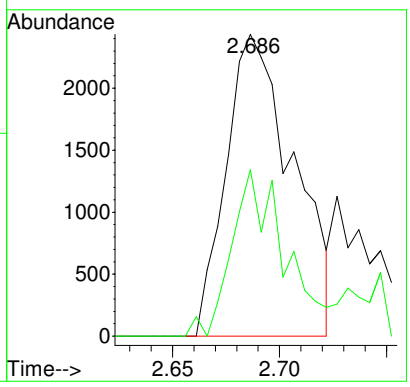


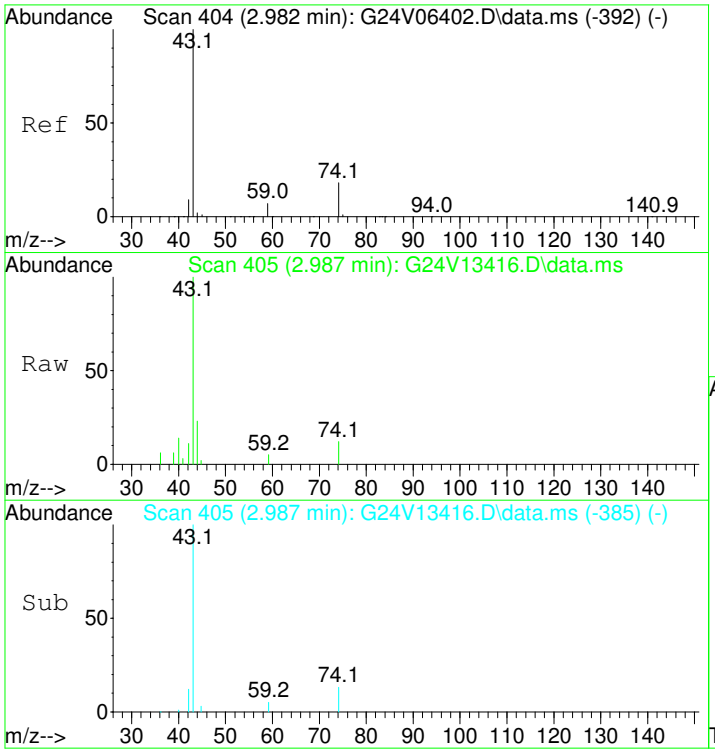


#17
Iodomethane
Concen: 0.20 ug/L
RT: 2.686 min Scan# 345
Delta R.T. 0.000 min
Lab File: G24V13416.D
Acq: 13 May 2024 10:18 am

Tgt Ion:142 Resp: 5343

Ion	Ratio	Lower	Upper
142	100		
127	42.9	19.0	59.0

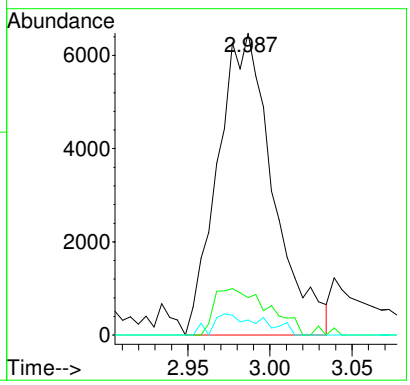


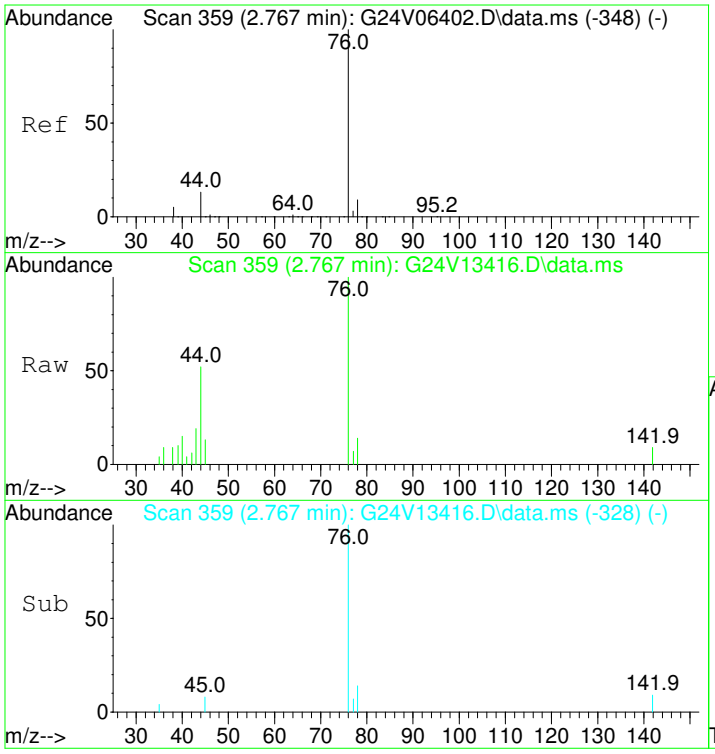


#19
Methyl acetate
Concen: 0.72 ug/L
RT: 2.987 min Scan# 405
Delta R.T. 0.005 min
Lab File: G24V13416.D
Acq: 13 May 2024 10:18 am

Tgt Ion: 43 Resp: 15209

Ion	Ratio	Lower	Upper
43	100		
74	15.1	5.4	45.4
59	6.3	0.0	27.5

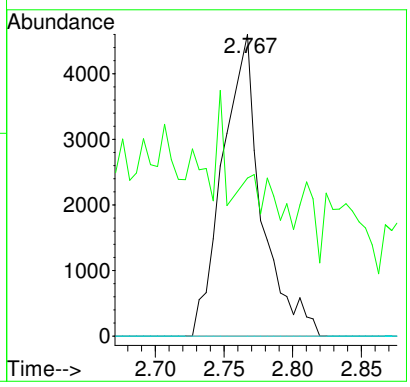


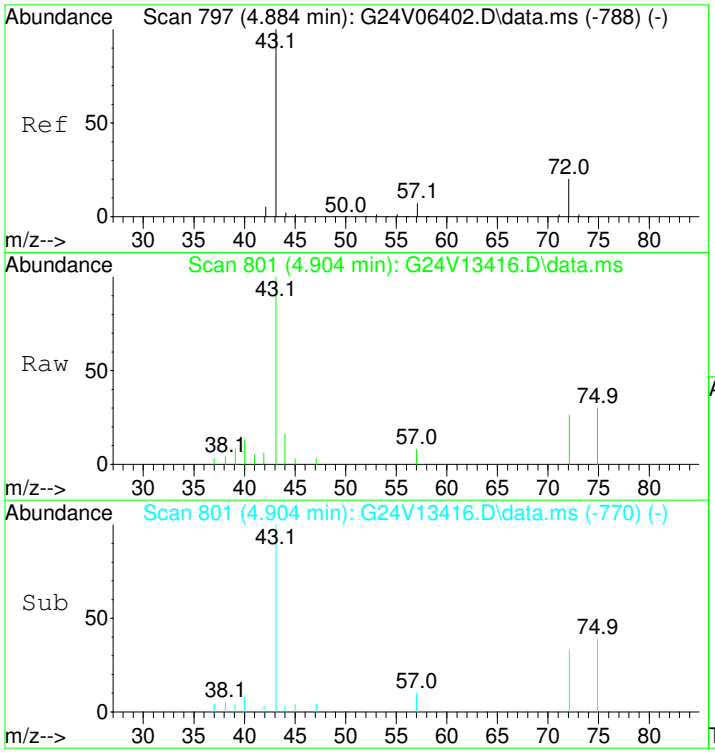


#23
Carbon disulfide
Concen: 0.28 ug/L
RT: 2.767 min Scan# 359
Delta R.T. 0.000 min
Lab File: G24V13416.D
Acq: 13 May 2024 10:18 am

Tgt Ion: 76 Resp: 7436

Ion	Ratio	Lower	Upper
76	100		
44	17.7	0.0	31.7
32	0.0	0.0	20.0

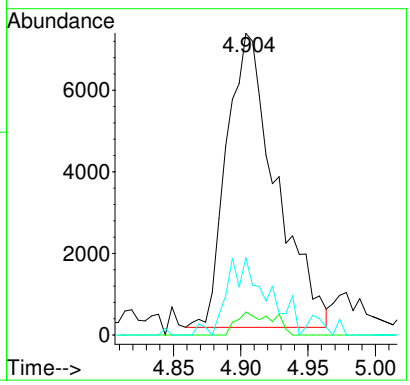




#31
2-Butanone (MEK)
Concen: 1.69 ug/L
RT: 4.904 min Scan# 801
Delta R.T. 0.020 min
Lab File: G24V13416.D
Acq: 13 May 2024 10:18 am

Tgt Ion: 43 Resp: 18264

Ion	Ratio	Lower	Upper
43	100		
57	3.4	0.0	28.9
72	22.2	8.6	48.6



1 - FORM I
ANALYSIS DATA SHEET

DUP

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-19	File ID:	G24V13417.D
Sampled:	05/08/24 15:45	Prepared:	05/13/24 04:00	Analyzed:	05/13/24 10:44
Solids:	69.57	Preparation:	SW-846 5035	Dilution:	1
Initial/Final:	5.09 g / 10 mL				
Batch:	B374129	Sequence:	S104464	Calibration:	2400276	Instrument:	GCMSVOA7

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
67-64-1	Acetone	0.073	0.073	0.14	V-35, J
71-43-2	Benzene		0.00088	0.0028	
74-97-5	Bromochloromethane		0.0012	0.0028	
75-27-4	Bromodichloromethane		0.00072	0.0028	
75-25-2	Bromoform		0.0012	0.0028	
74-83-9	Bromomethane		0.0025	0.014	
78-93-3	2-Butanone (MEK)		0.012	0.056	
104-51-8	n-Butylbenzene		0.0010	0.0028	
135-98-8	sec-Butylbenzene		0.0011	0.0028	
98-06-6	tert-Butylbenzene		0.0010	0.0028	
75-15-0	Carbon Disulfide		0.014	0.028	
56-23-5	Carbon Tetrachloride		0.00082	0.0028	
108-90-7	Chlorobenzene		0.00068	0.0028	
124-48-1	Chlorodibromomethane		0.00093	0.0014	
75-00-3	Chloroethane		0.0020	0.028	
67-66-3	Chloroform		0.00092	0.0056	
74-87-3	Chloromethane		0.0017	0.014	
110-82-7	Cyclohexane		0.0057	0.014	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.0011	0.0028	
106-93-4	1,2-Dibromoethane (EDB)		0.0010	0.0014	
95-50-1	1,2-Dichlorobenzene		0.00090	0.0028	
541-73-1	1,3-Dichlorobenzene		0.00081	0.0028	
106-46-7	1,4-Dichlorobenzene		0.00088	0.0028	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.0012	0.028	V-05
75-34-3	1,1-Dichloroethane		0.00086	0.0028	
107-06-2	1,2-Dichloroethane		0.00097	0.0028	
75-35-4	1,1-Dichloroethylene		0.0014	0.0056	
156-59-2	cis-1,2-Dichloroethylene		0.00098	0.0028	
156-60-5	trans-1,2-Dichloroethylene		0.00084	0.0028	
78-87-5	1,2-Dichloropropane		0.00087	0.0028	

1 - FORM I
ANALYSIS DATA SHEET

DUP

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-19	File ID:	G24V13417.D
Sampled:	05/08/24 15:45	Prepared:	05/13/24 04:00	Analyzed:	05/13/24 10:44
Solids:	69.57	Preparation:	SW-846 5035	Dilution:	1
Initial/Final:	5.09 g / 10 mL				
Batch:	B374129	Sequence:	S104464	Calibration:	2400276	Instrument:	GCMSVOA7

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
10061-01-5	cis-1,3-Dichloropropene		0.0011	0.0014	
10061-02-6	trans-1,3-Dichloropropene		0.0011	0.0014	
100-41-4	Ethylbenzene		0.00081	0.0028	
591-78-6	2-Hexanone (MBK)		0.0097	0.028	
98-82-8	Isopropylbenzene (Cumene)		0.0011	0.0028	
99-87-6	p-Isopropyltoluene (p-Cymene)		0.00091	0.0028	
79-20-9	Methyl Acetate		0.0019	0.0028	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.0012	0.0056	
108-87-2	Methyl Cyclohexane		0.0010	0.0028	
75-09-2	Methylene Chloride		0.0013	0.028	
108-10-1	4-Methyl-2-pentanone (MIBK)		0.012	0.028	
91-20-3	Naphthalene		0.0014	0.0056	
103-65-1	n-Propylbenzene		0.00093	0.0028	
100-42-5	Styrene		0.00090	0.0028	
79-34-5	1,1,2,2-Tetrachloroethane		0.0011	0.0014	
127-18-4	Tetrachloroethylene		0.0012	0.0028	
108-88-3	Toluene		0.00084	0.0028	
87-61-6	1,2,3-Trichlorobenzene		0.00093	0.0028	
120-82-1	1,2,4-Trichlorobenzene		0.00093	0.0028	
71-55-6	1,1,1-Trichloroethane		0.00084	0.0028	
79-00-5	1,1,2-Trichloroethane		0.00073	0.0028	
79-01-6	Trichloroethylene		0.0011	0.0028	
75-69-4	Trichlorofluoromethane (Freon 11)		0.0017	0.014	
96-18-4	1,2,3-Trichloropropane		0.0011	0.0028	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.0015	0.014	
95-63-6	1,2,4-Trimethylbenzene		0.0014	0.0028	
108-67-8	1,3,5-Trimethylbenzene		0.0011	0.0028	
75-01-4	Vinyl Chloride		0.0011	0.014	
179601-23-1	m+p Xylene		0.0020	0.0056	
95-47-6	o-Xylene		0.00095	0.0028	

1 - FORM I
ANALYSIS DATA SHEET

DUP

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-19	File ID:	G24V13417.D
Sampled:	05/08/24 15:45	Prepared:	05/13/24 04:00	Analyzed:	05/13/24 10:44
Solids:	69.57	Preparation:	SW-846 5035	Dilution:	1
Initial/Final:	5.09 g / 10 mL				
Batch:	B374129	Sequence:	S104464	Calibration:	2400276
				Instrument:	GCMSVOA7

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
1330-20-7	Xylenes (total)		0.0028	0.0028	

Data Path : X:\1\data\G051324\
Data File : G24V13417.D
Acq On : 13 May 2024 10:44 am
Operator :
Sample : 24E1437-19 Inst : GCMSVOA7
Misc :
ALS Vial : 17 Sample Multiplier: 1

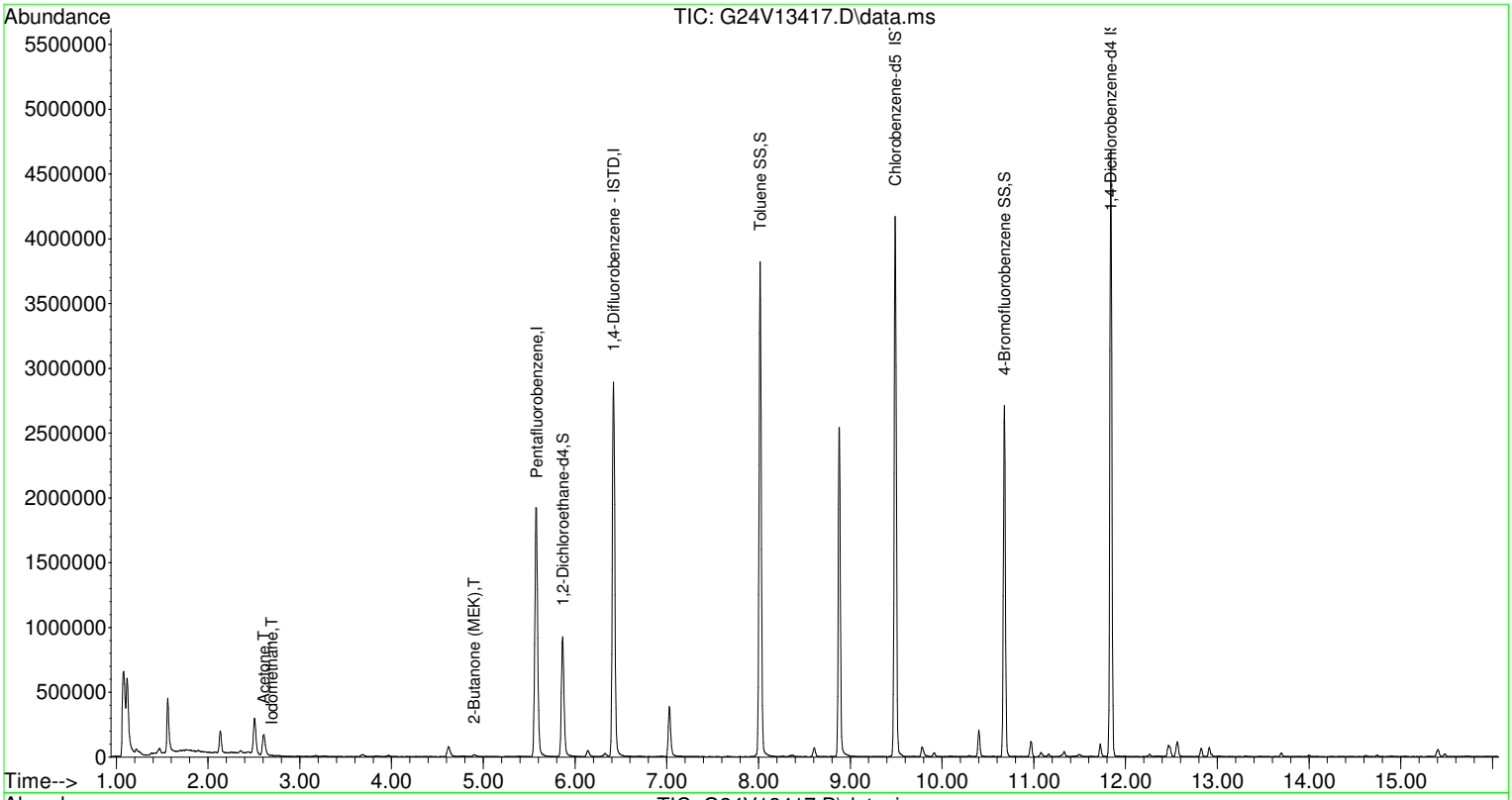
Quant Time: May 13 12:13:14 2024
Quant Method : X:\1\methods\GS030124.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Fri Mar 01 13:48:51 2024
Response via : Initial Calibration

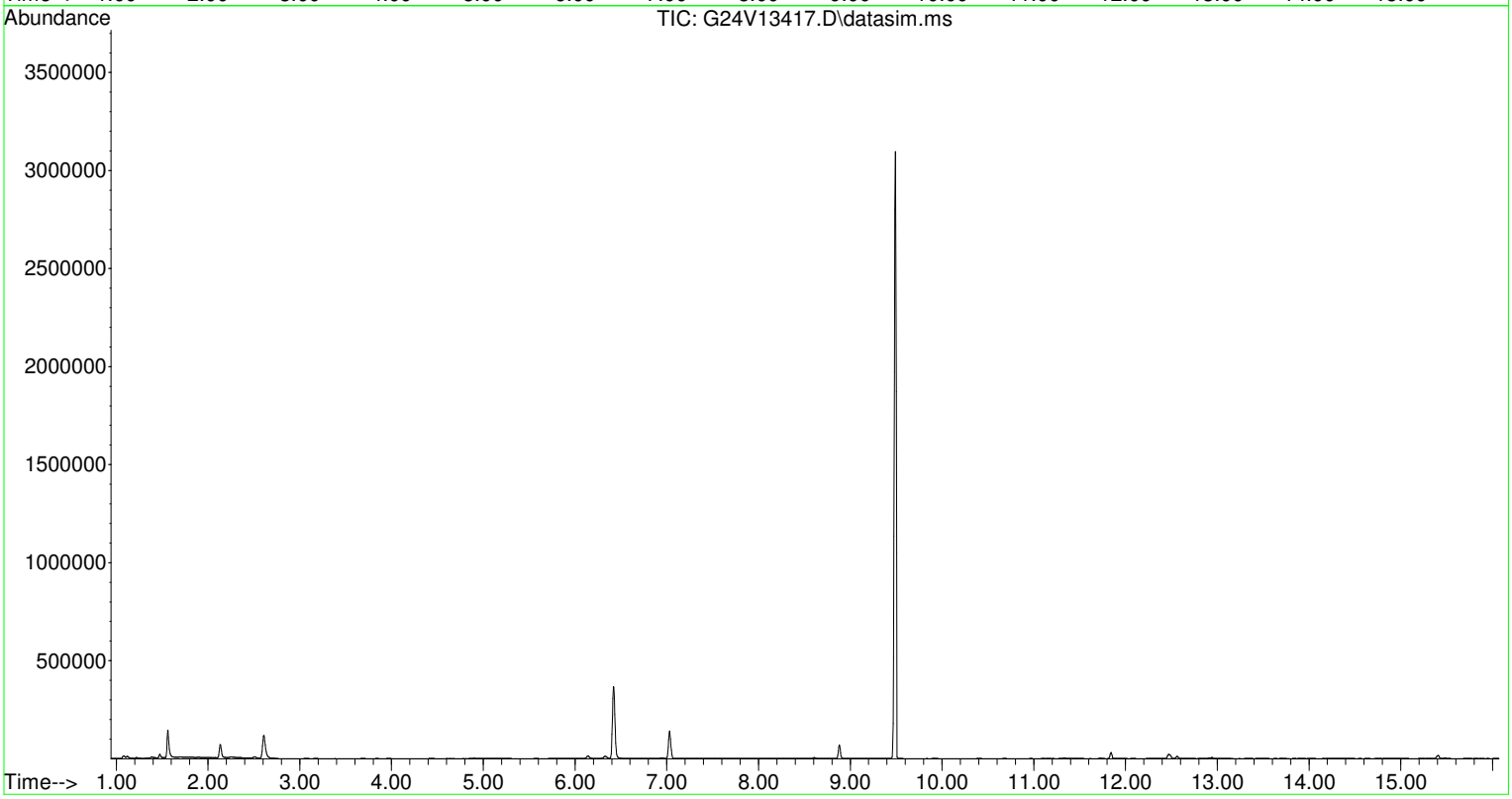
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.579	168	1616962	30.00	ug/L	0.00
49) 1,4-Difluorobenzene - ...	6.420	114	2683036	30.00	ug/L	0.00
72) Chlorobenzene-d5 ISTD	9.488	82	1034551	30.00	ug/L	# 0.00
91) 1,4-Dichlorobenzene-d4...	11.840	152	1228539	30.00	ug/L	-0.01
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	5.866	65	601665	23.76	ug/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 95.04%			
50) Toluene SS	8.016	98	2447304	23.08	ug/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 92.32%			
73) 4-Bromofluorobenzene SS	10.681	95	858031	20.95	ug/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 83.80%			
Target Compounds						Qvalue
14) Acetone	2.605	43	253650	25.95	ug/L	86
17) Iodomethane	2.692	142	5855	0.20	ug/L	95
31) 2-Butanone (MEK)	4.899	43	22794	1.95	ug/L	72

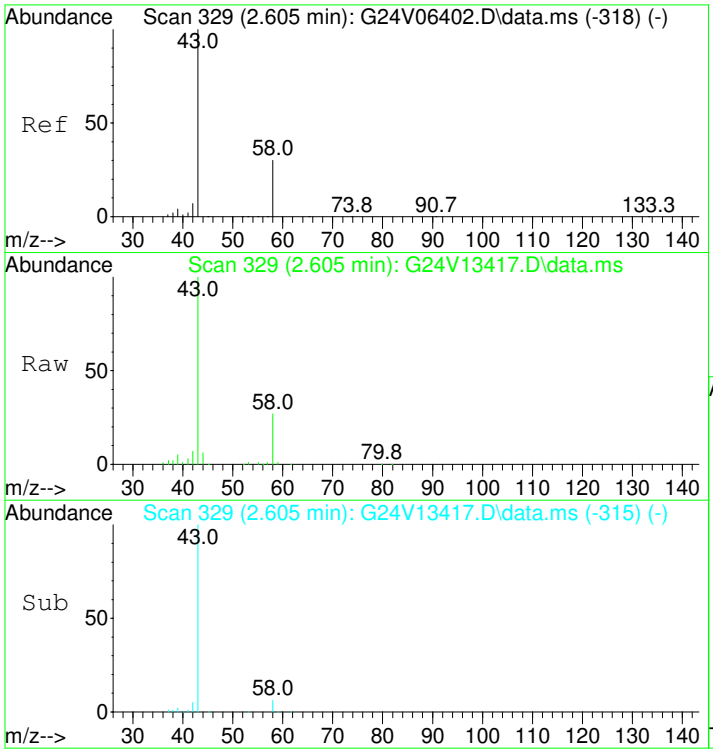
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\1\data\G051324\
Data File : G24V13417.D
Acq On : 13 May 2024 10:44 am
Operator :
Sample : 24E1437-19 Inst : GCMSVOA7
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 13 12:13:14 2024
Quant Method : X:\1\methods\GS030124.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Fri Mar 01 13:48:51 2024
Response via : Initial Calibration



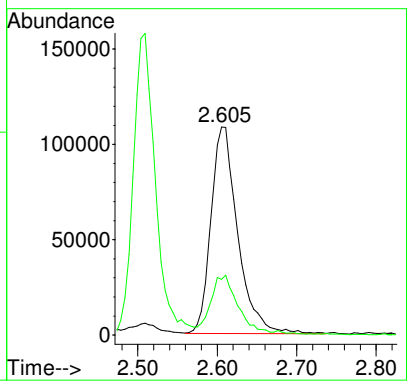


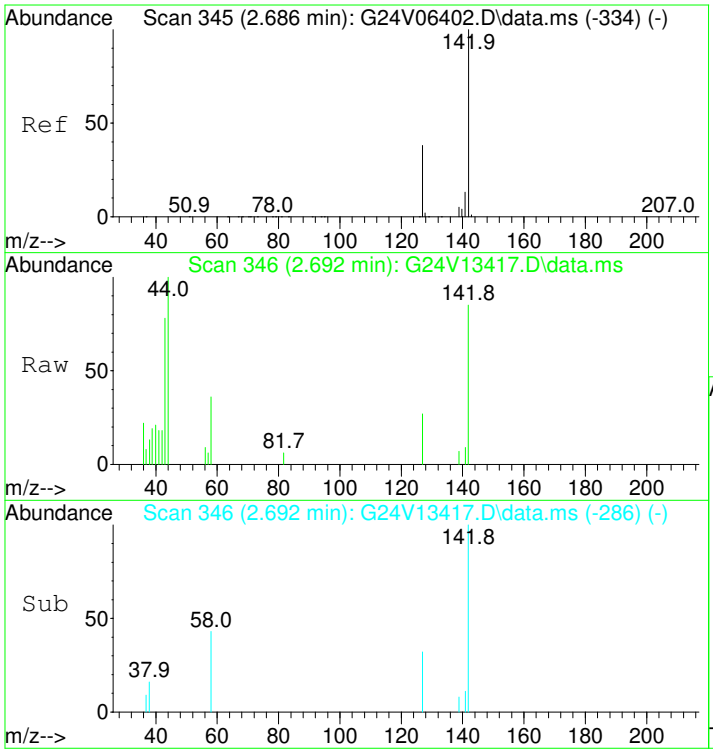


#14
Acetone
Concen: 25.95 ug/L
RT: 2.605 min Scan# 329
Delta R.T. 0.000 min
Lab File: G24V13417.D
Acq: 13 May 2024 10:44 am

Tgt Ion: 43 Resp: 253650

Ion	Ratio	Lower	Upper
43	100		
58	26.2	14.5	54.5

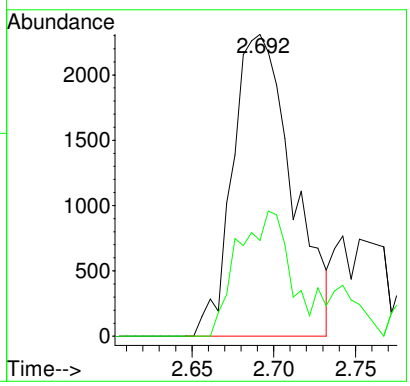


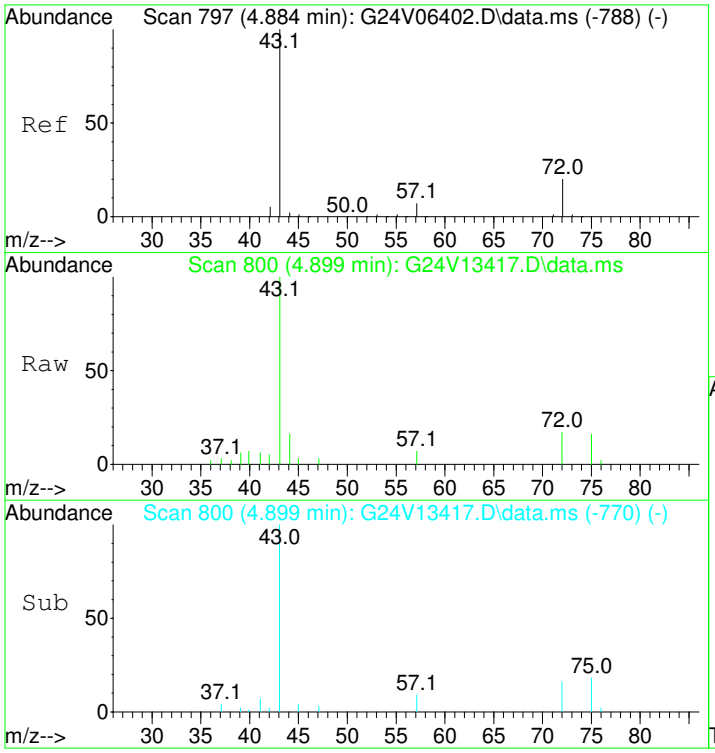


#17
Iodomethane
Concen: 0.20 ug/L
RT: 2.692 min Scan# 346
Delta R.T. 0.006 min
Lab File: G24V13417.D
Acq: 13 May 2024 10:44 am

Tgt Ion:142 Resp: 5855

Ion	Ratio	Lower	Upper
142	100		
127	35.6	19.0	59.0

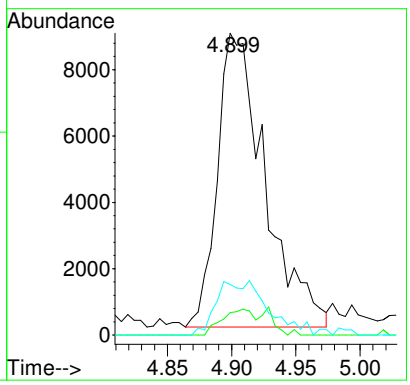




#31
2-Butanone (MEK)
Concen: 1.95 ug/L
RT: 4.899 min Scan# 800
Delta R.T. 0.015 min
Lab File: G24V13417.D
Acq: 13 May 2024 10:44 am

Tgt Ion: 43 Resp: 22794

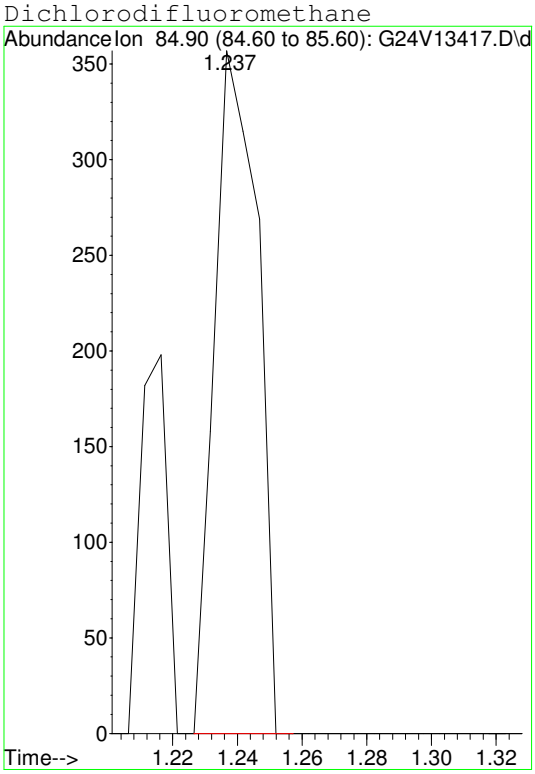
Ion	Ratio	Lower	Upper
43	100		
57	5.9	0.0	28.9
72	10.6	8.6	48.6



Data Path : X:\1\data\G051324\
Data File : G24V13417.D
Acq On : 13 May 2024 10:44 am
Operator :
Sample : 24E1437-19
Misc :

Quant Time : Mon May 13 12:13:14 2024
Quant Method : X:\1\methods\GS030124.M
QLast Update : Fri Mar 01 13:48:51 2024

Original Integration
Dichlorodifluoromethane



Original Int. Results

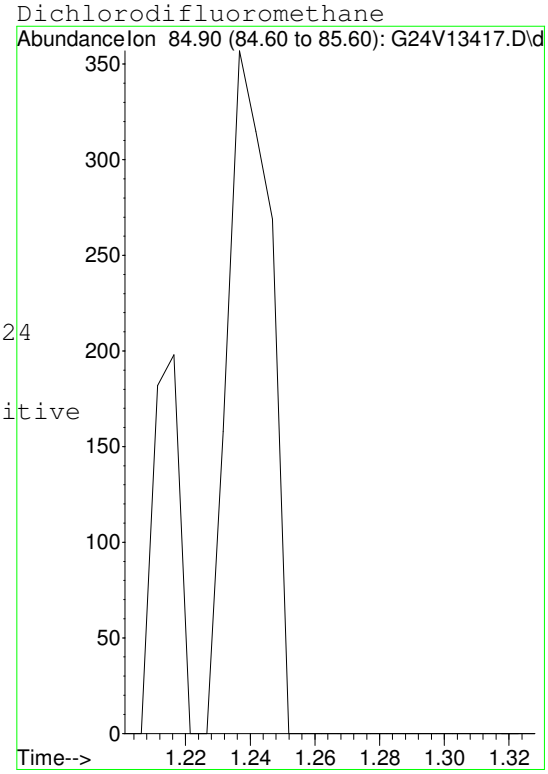
RT : 1.24
Area : 334
Amount: 1.00768

Manual Int. Results

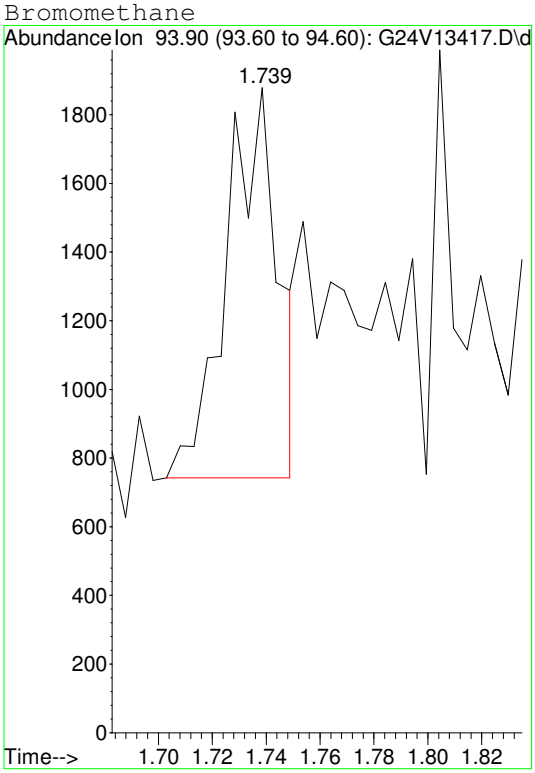
Mon May 13 12:11:13 2024

MIuser: MFF
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration
Dichlorodifluoromethane



Original Integration
Bromomethane



Original Int. Results

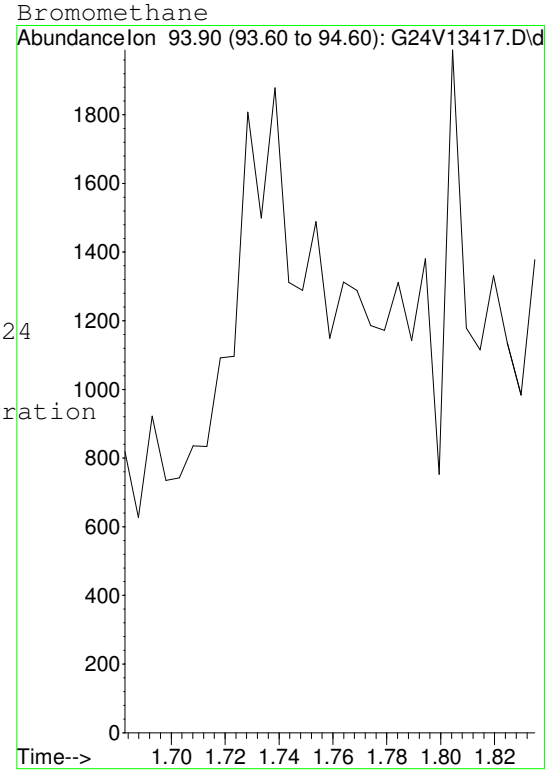
RT : 1.74
Area : 1511
Amount: 0.166331

Manual Int. Results

Mon May 13 12:11:16 2024

MIuser: MFF
Reason: Incorret Integration
RT : 0.00
Area : 0
Amount: 0

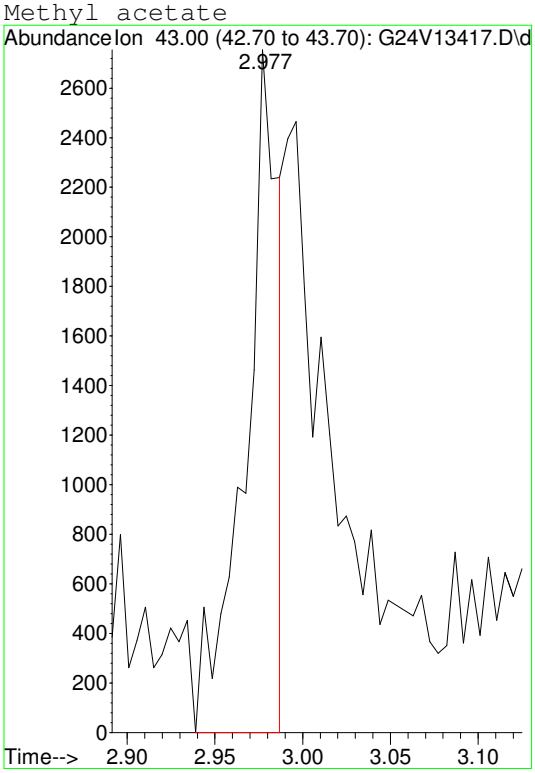
Manual Integration
Bromomethane



Data Path : X:\1\data\G051324\
Data File : G24V13417.D
Acq On : 13 May 2024 10:44 am
Operator :
Sample : 24E1437-19
Misc :

Quant Time : Mon May 13 12:13:14 2024
Quant Method : X:\1\methods\GS030124.M
QLast Update : Fri Mar 01 13:48:51 2024

Original Integration
Methyl acetate



Original Int. Results

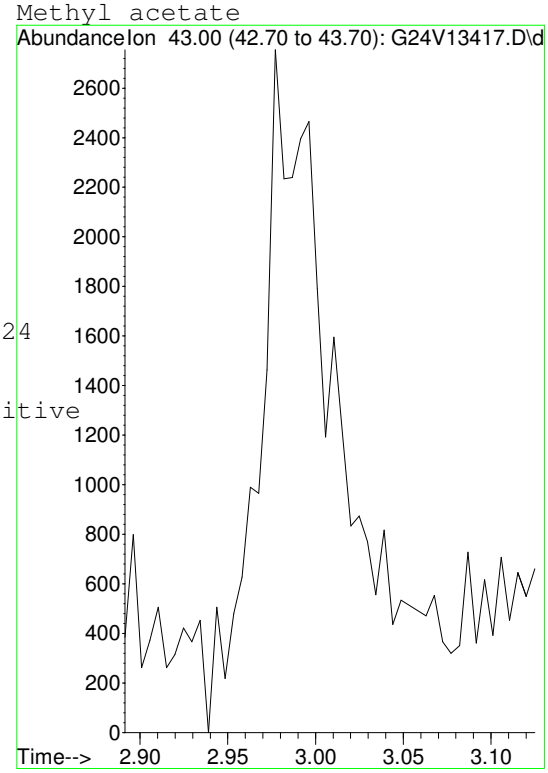
RT : 2.98
Area : 3571
Amount: 0.156431

Manual Int. Results

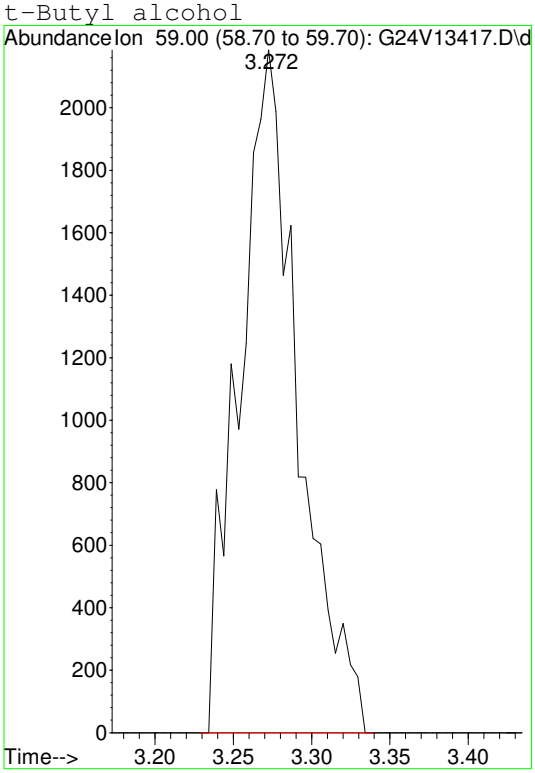
Mon May 13 12:11:23 2024

MIuser: MFF
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration
Methyl acetate



Original Integration
t-Butyl alcohol



Original Int. Results

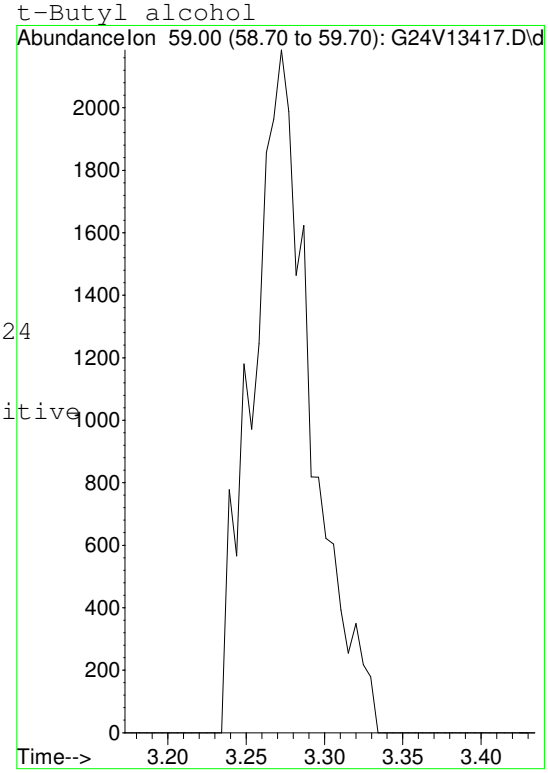
RT : 3.27
Area : 5733
Amount: 1.94051

Manual Int. Results

Mon May 13 12:11:28 2024

MIuser: MFF
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

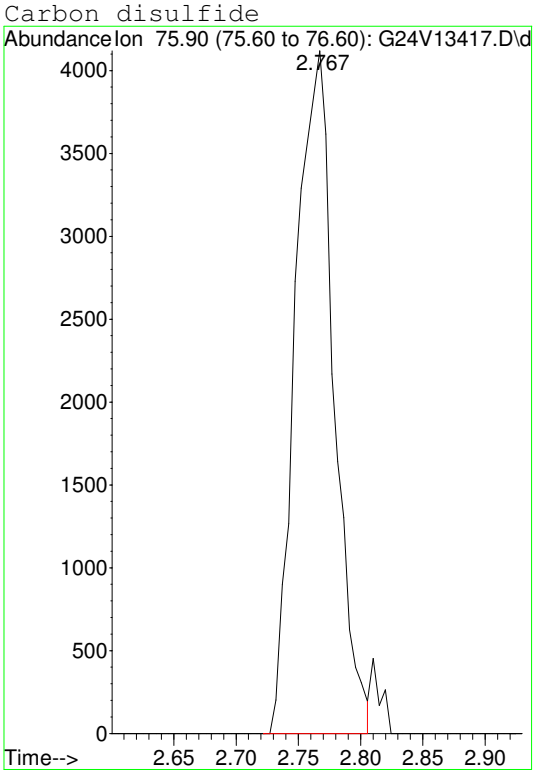
Manual Integration
t-Butyl alcohol



Data Path : X:\1\data\G051324\
Data File : G24V13417.D
Acq On : 13 May 2024 10:44 am
Operator :
Sample : 24E1437-19
Misc :

Quant Time : Mon May 13 12:13:14 2024
Quant Method : X:\1\methods\GS030124.M
QLast Update : Fri Mar 01 13:48:51 2024

Original Integration
Carbon disulfide



Original Int. Results

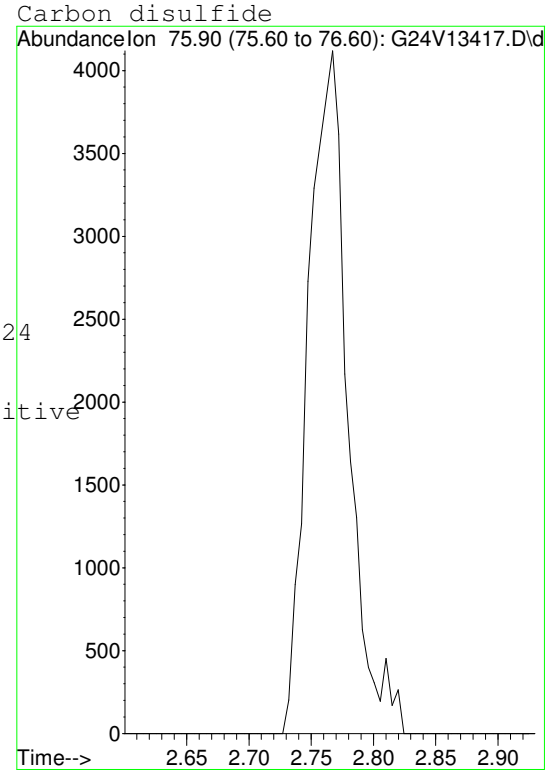
RT : 2.77
Area : 7601
Amount: 0.268432

Manual Int. Results

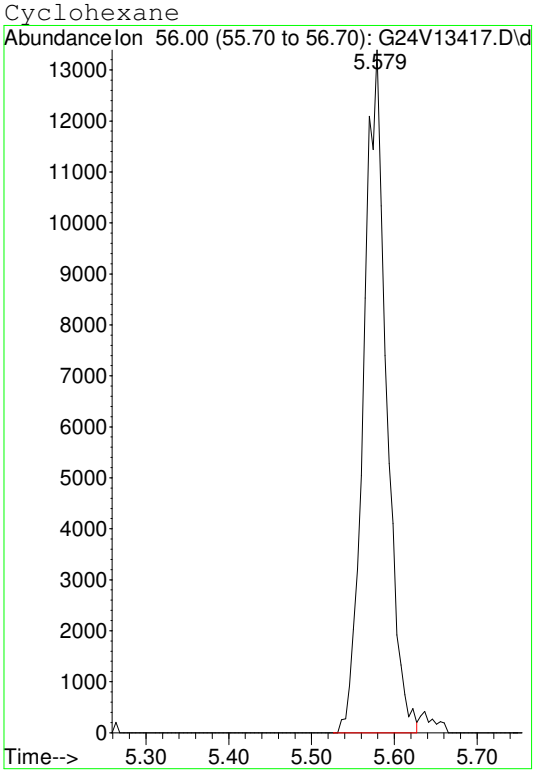
Mon May 13 12:11:34 2024

MIuser: MFF
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration
Carbon disulfide



Original Integration
Cyclohexane



Original Int. Results

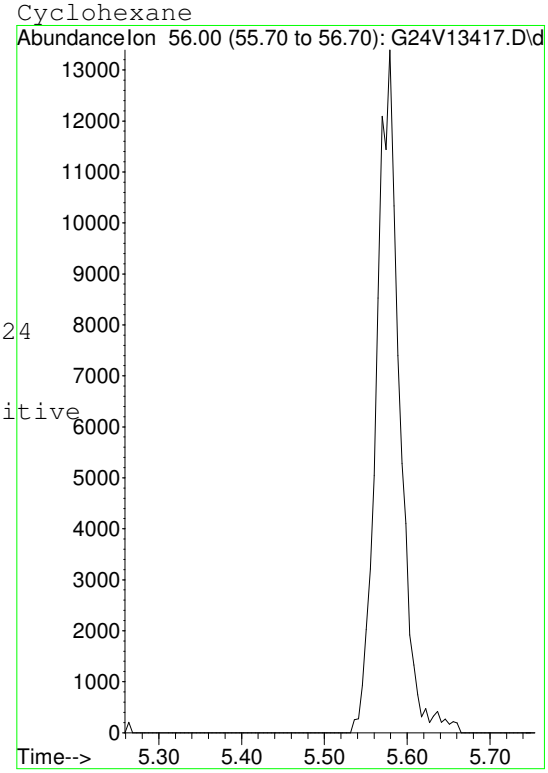
RT : 5.58
Area : 25583
Amount: 1.40002

Manual Int. Results

Mon May 13 12:11:41 2024

MIuser: MFF
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

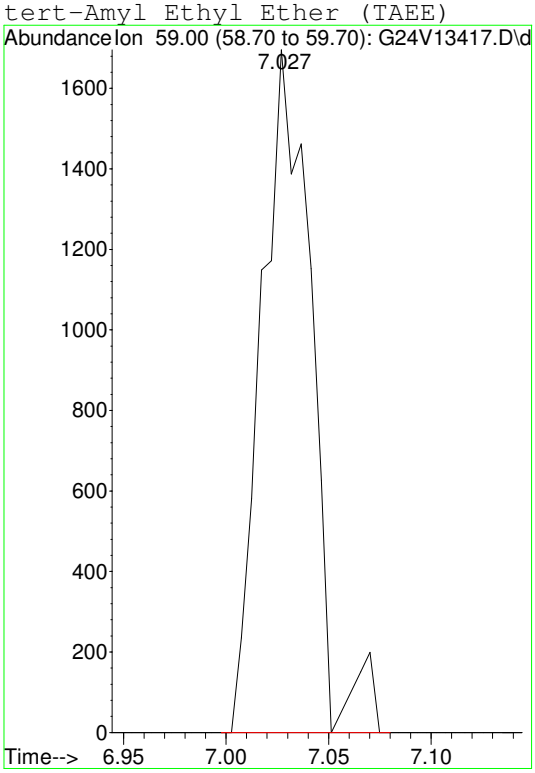
Manual Integration
Cyclohexane



Data Path : X:\1\data\G051324\
Data File : G24V13417.D
Acq On : 13 May 2024 10:44 am
Operator :
Sample : 24E1437-19
Misc :

Quant Time : Mon May 13 12:13:14 2024
Quant Method : X:\1\methods\GS030124.M
QLast Update : Fri Mar 01 13:48:51 2024

Original Integration
tert-Amyl Ethyl Ether (TAEE)



Original Int. Results

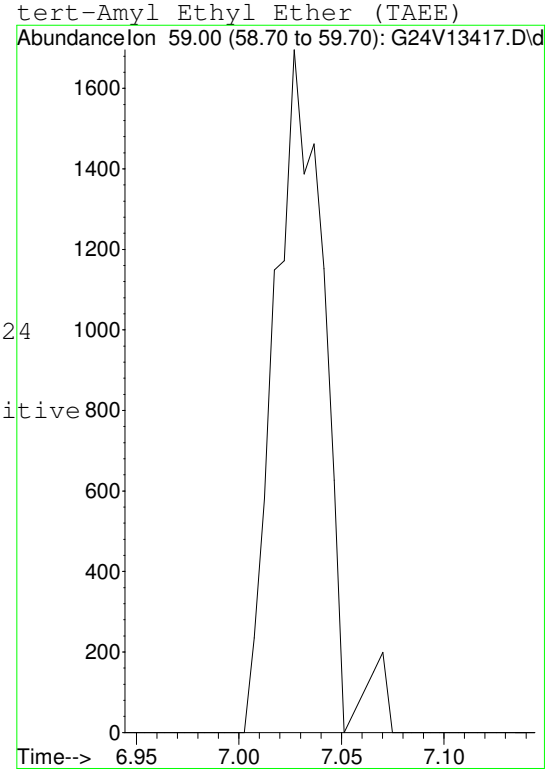
RT : 7.03
Area : 3205
Amount: 0.0821157

Manual Int. Results

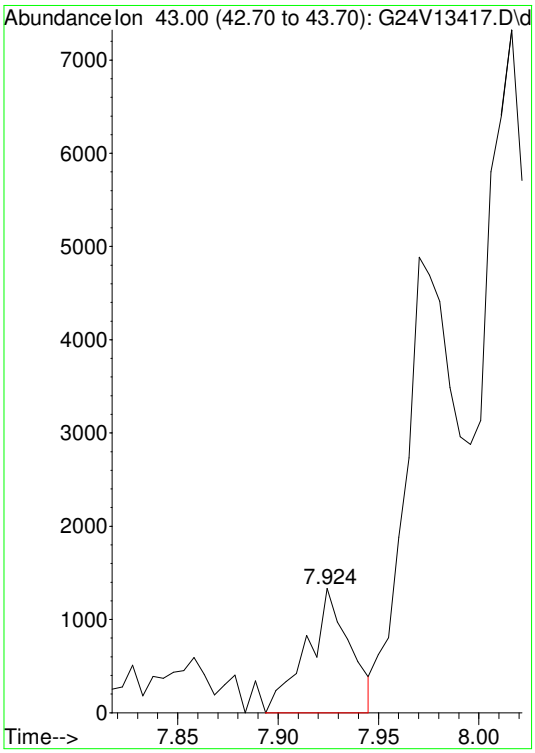
Mon May 13 12:11:49 2024

MIuser: MFF
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration
tert-Amyl Ethyl Ether (TAEE)



Original Integration
MIBK



Original Int. Results

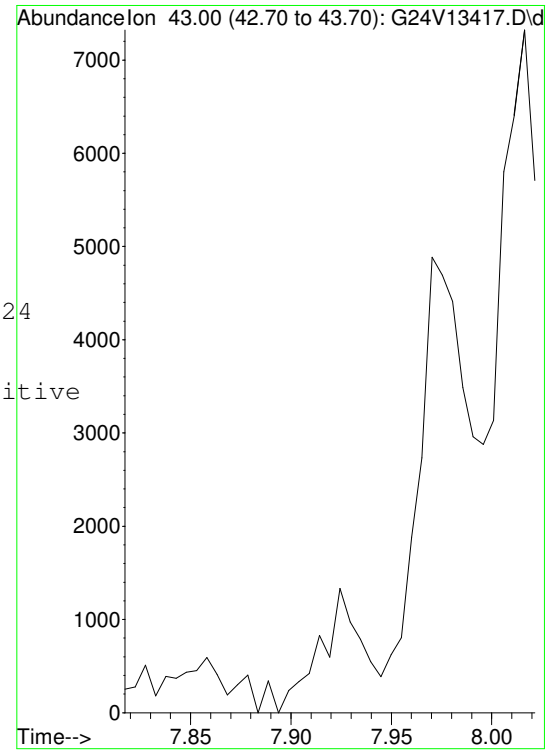
RT : 7.92
Area : 1973
Amount: 0.0862202

Manual Int. Results

Mon May 13 12:13:00 2024

MIuser: MFF
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

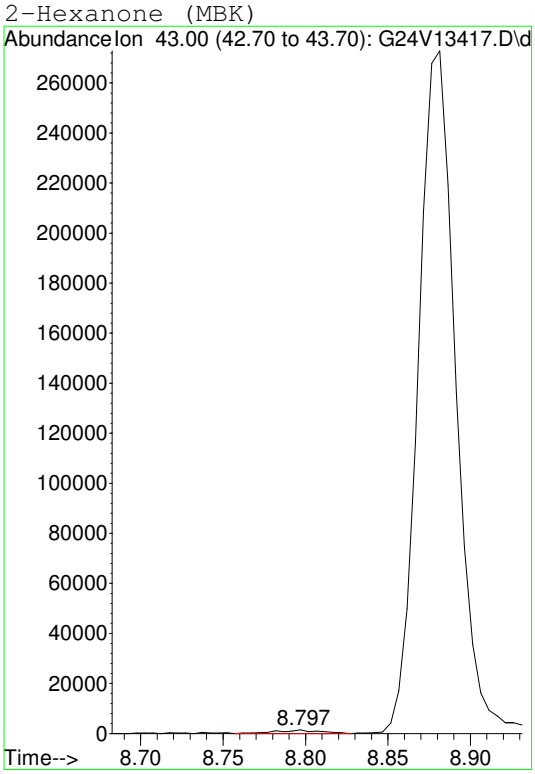
Manual Integration
MIBK



Data Path : X:\1\data\G051324\
Data File : G24V13417.D
Acq On : 13 May 2024 10:44 am
Operator :
Sample : 24E1437-19
Misc :

Quant Time : Mon May 13 12:13:14 2024
Quant Method : X:\1\methods\GS030124.M
QLast Update : Fri Mar 01 13:48:51 2024

Original Integration
2-Hexanone (MBK)



Original Int. Results

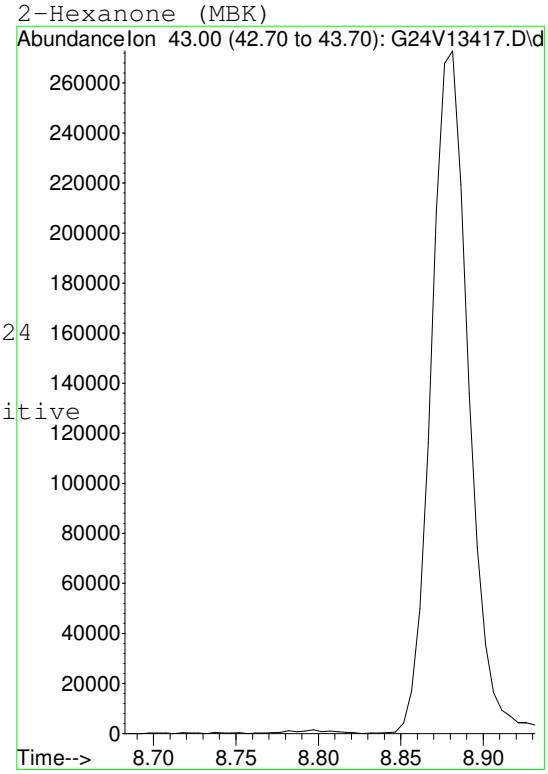
RT : 8.80
Area : 2541
Amount: 0.142113

Manual Int. Results

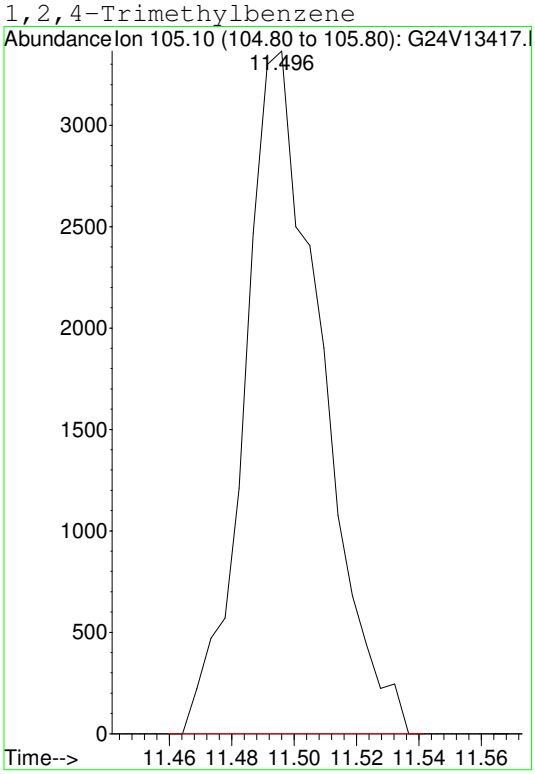
Mon May 13 12:13:03 2024

MIuser: MFF
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration
2-Hexanone (MBK)



Original Integration
1,2,4-Trimethylbenzene



Original Int. Results

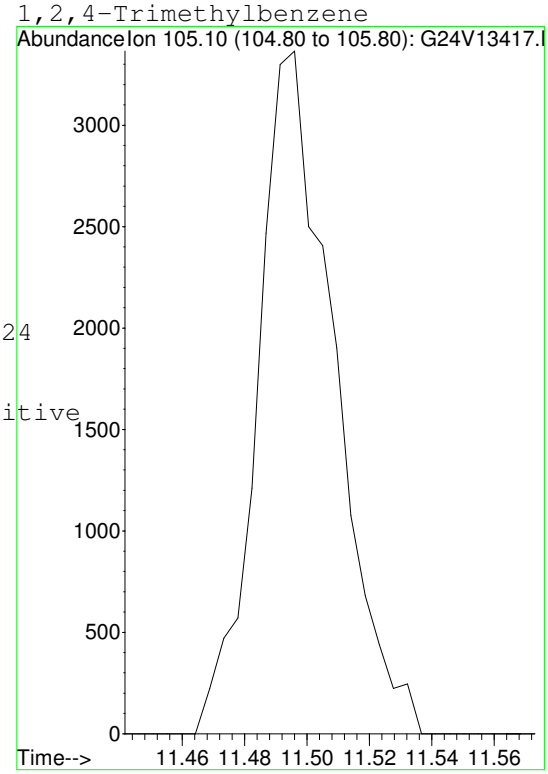
RT : 11.50
Area : 5727
Amount: 0.081908

Manual Int. Results

Mon May 13 12:13:13 2024

MIuser: MFF
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1,2,4-Trimethylbenzene



QC DATA

2 - FORM II

SYSTEM MONITORING COMPOUND SUMMARY

SW-846 8260D

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Instrument:	GCMSVOA7

	1,2-DCA-d4 (70% - 130%)	BFB (70% - 130%)	TOL-d8 (70% - 130%)
24E1437-02	111	80.9	97.2
24E1437-04	99.9	85.6	96.0
24E1437-06	103	82.9	92.7
24E1437-12	106	85.3	94.8
24E1437-17	98.3	85.6	92.0
24E1437-19	95.0	83.8	92.3
B374129-BLK1	103	84.7	93.8
B374129-BS1	93.4	83.2	95.2
B374129-BSD1	95.2	84.2	94.4
B374129-MS1	105	82.3	94.2
B374129-MSD1	102	81.5	95.5

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SB1A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Analysis:	SW-846 8260D
Batch:	B374129	Preparation:	SW-846 5035
% Solids:	72.51	Laboratory ID:	B374129-MS1
Initial/Final:	5.78 g / 10 mL	Sample Lab ID:	24E1437-06
Column:			

ANALYTE	SPIKE ADDED (mg/Kg dry)	SAMPLE CONCENTRATION (mg/Kg dry)	MS CONCENTRATION (mg/Kg dry)	MS % REC.		QC LIMITS REC.
Acetone	0.239	ND	0.247	104		70 - 130
Benzene	0.0239	ND	0.0257	108		70 - 130
Bromochloromethane	0.0239	ND	0.0268	112		70 - 130
Bromodichloromethane	0.0239	ND	0.0228	95.5		70 - 130
Bromoform	0.0239	ND	0.0183	76.7		70 - 130
Bromomethane	0.0239	ND	0.00608	25.5	*	70 - 130
2-Butanone (MEK)	0.239	ND	0.249	104		70 - 130
n-Butylbenzene	0.0239	ND	0.0277	116		70 - 130
sec-Butylbenzene	0.0239	ND	0.0309	130		70 - 130
tert-Butylbenzene	0.0239	ND	0.0287	120		70 - 130
Carbon Disulfide	0.0239	ND	0.0413	173	*	70 - 130
Carbon Tetrachloride	0.0239	ND	0.0247	104		70 - 130
Chlorobenzene	0.0239	ND	0.0214	89.8		70 - 130
Chlorodibromomethane	0.0239	ND	0.0225	94.2		70 - 130
Chloroethane	0.0239	ND	0.0316	132	*	70 - 130
Chloroform	0.0239	ND	0.0259	109		70 - 130
Chloromethane	0.0239	ND	0.0358	150	*	70 - 130
Cyclohexane	0.0239	ND	0.0270	113		70 - 130
1,2-Dibromo-3-chloropropane (DBCP)	0.0239	ND	0.0206	86.3		70 - 130
1,2-Dibromoethane (EDB)	0.0239	ND	0.0260	109		70 - 130
1,2-Dichlorobenzene	0.0239	ND	0.0291	122		70 - 130
1,3-Dichlorobenzene	0.0239	ND	0.0289	121		70 - 130
1,4-Dichlorobenzene	0.0239	ND	0.0286	120		70 - 130
Dichlorodifluoromethane (Freon 12)	0.0239	ND	0.0356	149	*	70 - 130
1,1-Dichloroethane	0.0239	ND	0.0279	117		70 - 130
1,2-Dichloroethane	0.0239	ND	0.0253	106		70 - 130
1,1-Dichloroethylene	0.0239	ND	0.0254	106		70 - 130
cis-1,2-Dichloroethylene	0.0239	ND	0.0266	112		70 - 130
trans-1,2-Dichloroethylene	0.0239	ND	0.0270	113		70 - 130

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SB1A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Analysis:	SW-846 8260D
Batch:	B374129	Preparation:	SW-846 5035
% Solids:	72.51	Laboratory ID:	B374129-MS1
Initial/Final:	5.78 g / 10 mL	Sample Lab ID:	24E1437-06
Column:			

ANALYTE	SPIKE ADDED (mg/Kg dry)	SAMPLE CONCENTRATION (mg/Kg dry)	MS CONCENTRATION (mg/Kg dry)	MS % REC.		QC LIMITS REC.
1,2-Dichloropropane	0.0239	ND	0.0245	103		70 - 130
cis-1,3-Dichloropropene	0.0239	ND	0.0223	93.5		70 - 130
trans-1,3-Dichloropropene	0.0239	ND	0.0233	97.5		70 - 130
Ethylbenzene	0.0239	ND	0.0242	101		70 - 130
2-Hexanone (MBK)	0.239	ND	0.251	105		70 - 130
Isopropylbenzene (Cumene)	0.0239	ND	0.0256	107		70 - 130
p-Isopropyltoluene (p-Cymene)	0.0239	ND	0.0306	128		70 - 130
Methyl Acetate	0.0239	ND	0.0372	156	*	70 - 130
Methyl tert-Butyl Ether (MTBE)	0.0239	ND	0.0246	103		70 - 130
Methyl Cyclohexane	0.0239	ND	0.0262	110		70 - 130
Methylene Chloride	0.0239	ND	0.0264	111		70 - 130
4-Methyl-2-pentanone (MIBK)	0.239	ND	0.279	117		70 - 130
Naphthalene	0.0239	ND	0.0262	110		70 - 130
n-Propylbenzene	0.0239	ND	0.0266	112		70 - 130
Styrene	0.0239	ND	0.0242	101		70 - 130
1,1,2,2-Tetrachloroethane	0.0239	ND	0.0241	101		70 - 130
Tetrachloroethylene	0.0239	ND	0.0276	116		70 - 130
Toluene	0.0239	ND	0.0252	106		70 - 130
1,2,3-Trichlorobenzene	0.0239	ND	0.0269	113		70 - 130
1,2,4-Trichlorobenzene	0.0239	ND	0.0268	112		70 - 130
1,1,1-Trichloroethane	0.0239	ND	0.0259	109		70 - 130
1,1,2-Trichloroethane	0.0239	ND	0.0271	114		70 - 130
Trichloroethylene	0.0239	ND	0.0255	107		70 - 130
Trichlorofluoromethane (Freon 11)	0.0239	ND	0.0324	136	*	70 - 130
1,2,3-Trichloropropane	0.0239	ND	0.0235	98.4		70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0239	ND	0.0278	117		70 - 130
1,2,4-Trimethylbenzene	0.0239	ND	0.0261	109		70 - 130
1,3,5-Trimethylbenzene	0.0239	ND	0.0241	101		70 - 130
Vinyl Chloride	0.0239	ND	0.0300	126		70 - 130
m+p Xylene	0.0477	ND	0.0498	104		70 - 130

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SB1A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Analysis:	SW-846 8260D
Batch:	B374129	Preparation:	SW-846 5035
% Solids:	72.51	Laboratory ID:	B374129-MS1
Initial/Final:	5.78 g / 10 mL	Sample Lab ID:	24E1437-06
Column:			

ANALYTE	SPIKE ADDED (mg/Kg dry)	SAMPLE CONCENTRATION (mg/Kg dry)	MS CONCENTRATION (mg/Kg dry)	MS % REC.	QC LIMITS REC.
o-Xylene	0.0239	ND	0.0243	102	70 - 130

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SB1A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Analysis:	SW-846 8260D
Batch:	B374129	Preparation:	SW-846 5035
% Solids:	72.51	Laboratory ID:	B374129-MSD1
Initial/Final:	6.37 g / 10 mL	Sample Lab ID:	24E1437-06
Column:			

ANALYTE	SPIKE ADDED (mg/Kg dry)	MSD CONCENTRATION (mg/Kg dry)	MSD % REC. #		% RPD	QC LIMITS RPD	QC LIMITS REC.
Acetone	0.216	0.226	105		8.86	30	70 - 130
Benzene	0.0216	0.0222	102		14.8	30	70 - 130
Bromochloromethane	0.0216	0.0232	107		14.4	30	70 - 130
Bromodichloromethane	0.0216	0.0207	95.8		9.40	30	70 - 130
Bromoform	0.0216	0.0166	76.8		9.58	30	70 - 130
Bromomethane	0.0216	0.00667	30.8	*	9.16	30	70 - 130
2-Butanone (MEK)	0.216	0.229	106		8.52	30	70 - 130
n-Butylbenzene	0.0216	0.0250	115		10.2	30	70 - 130
sec-Butylbenzene	0.0216	0.0274	127		11.9	30	70 - 130
tert-Butylbenzene	0.0216	0.0253	117		12.7	30	70 - 130
Carbon Disulfide	0.0216	0.0371	171	*	10.9	30	70 - 130
Carbon Tetrachloride	0.0216	0.0212	97.7		15.5	30	70 - 130
Chlorobenzene	0.0216	0.0185	85.4		14.7	30	70 - 130
Chlorodibromomethane	0.0216	0.0207	95.6		8.24	30	70 - 130
Chloroethane	0.0216	0.0258	119		20.2	30	70 - 130
Chloroform	0.0216	0.0227	105		13.4	30	70 - 130
Chloromethane	0.0216	0.0308	142	*	14.8	30	70 - 130
Cyclohexane	0.0216	0.0236	109		13.6	30	70 - 130
1,2-Dibromo-3-chloropropane (DBCP)	0.0216	0.0189	87.2		8.68	30	70 - 130
1,2-Dibromoethane (EDB)	0.0216	0.0238	110		8.98	30	70 - 130
1,2-Dichlorobenzene	0.0216	0.0259	120		11.4	30	70 - 130
1,3-Dichlorobenzene	0.0216	0.0252	117		13.7	30	70 - 130
1,4-Dichlorobenzene	0.0216	0.0253	117		12.1	30	70 - 130
Dichlorodifluoromethane (Freon 12)	0.0216	0.0301	139	*	16.8	30	70 - 130
1,1-Dichloroethane	0.0216	0.0241	111		14.8	30	70 - 130
1,2-Dichloroethane	0.0216	0.0228	105		10.7	30	70 - 130
1,1-Dichloroethylene	0.0216	0.0215	99.5		16.4	30	70 - 130
cis-1,2-Dichloroethylene	0.0216	0.0234	108		13.0	30	70 - 130
trans-1,2-Dichloroethylene	0.0216	0.0233	107		14.9	30	70 - 130

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SB1A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Analysis:	SW-846 8260D
Batch:	B374129	Preparation:	SW-846 5035
% Solids:	72.51	Laboratory ID:	B374129-MSD1
Initial/Final:	6.37 g / 10 mL	Sample Lab ID:	24E1437-06
Column:			

ANALYTE	SPIKE ADDED (mg/Kg dry)	MSD CONCENTRATION (mg/Kg dry)	MSD % REC. #		% RPD	QC LIMITS RPD	QC LIMITS REC.
1,2-Dichloropropane	0.0216	0.0224	104		8.84	30	70 - 130
cis-1,3-Dichloropropene	0.0216	0.0202	93.2		10.0	30	70 - 130
trans-1,3-Dichloropropene	0.0216	0.0214	98.9		8.29	30	70 - 130
Ethylbenzene	0.0216	0.0215	99.3		11.8	30	70 - 130
2-Hexanone (MBK)	0.216	0.236	109		6.06	30	70 - 130
Isopropylbenzene (Cumene)	0.0216	0.0225	104		12.8	30	70 - 130
p-Isopropyltoluene (p-Cymene)	0.0216	0.0273	126		11.5	30	70 - 130
Methyl Acetate	0.0216	0.0336	155	*	10.0	30	70 - 130
Methyl tert-Butyl Ether (MTBE)	0.0216	0.0220	102		11.0	30	70 - 130
Methyl Cyclohexane	0.0216	0.0236	109		10.8	30	70 - 130
Methylene Chloride	0.0216	0.0217	100		19.8	30	70 - 130
4-Methyl-2-pentanone (MIBK)	0.216	0.260	120		6.96	30	70 - 130
Naphthalene	0.0216	0.0234	108		11.3	30	70 - 130
n-Propylbenzene	0.0216	0.0237	109		11.7	30	70 - 130
Styrene	0.0216	0.0213	98.6		12.4	30	70 - 130
1,1,2,2-Tetrachloroethane	0.0216	0.0215	99.5		11.2	30	70 - 130
Tetrachloroethylene	0.0216	0.0246	114		11.6	30	70 - 130
Toluene	0.0216	0.0225	104		11.2	30	70 - 130
1,2,3-Trichlorobenzene	0.0216	0.0237	109		12.8	30	70 - 130
1,2,4-Trichlorobenzene	0.0216	0.0240	111		10.8	30	70 - 130
1,1,1-Trichloroethane	0.0216	0.0226	104		13.7	30	70 - 130
1,1,2-Trichloroethane	0.0216	0.0244	113		10.5	30	70 - 130
Trichloroethylene	0.0216	0.0227	105		11.7	30	70 - 130
Trichlorofluoromethane (Freon 11)	0.0216	0.0278	128		15.2	30	70 - 130
1,2,3-Trichloropropane	0.0216	0.0213	98.6		9.51	30	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0216	0.0239	110		15.3	30	70 - 130
1,2,4-Trimethylbenzene	0.0216	0.0230	106		12.4	30	70 - 130
1,3,5-Trimethylbenzene	0.0216	0.0213	98.2		12.7	30	70 - 130
Vinyl Chloride	0.0216	0.0263	122		13.1	30	70 - 130

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SB1A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Analysis:	SW-846 8260D
Batch:	B374129	Preparation:	SW-846 5035
% Solids:	72.51	Laboratory ID:	B374129-MSD1
Initial/Final:	6.37 g / 10 mL	Sample Lab ID:	24E1437-06
Column:			

ANALYTE	SPIKE ADDED (mg/Kg dry)	MSD CONCENTRATION (mg/Kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
m+p Xylene	0.0433	0.0439	101	12.6	30	70 - 130
o-Xylene	0.0216	0.0214	98.8	12.9	30	70 - 130

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

SW-846 8260D

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Preparation:	SW-846 5035
Batch:	B374129	Laboratory ID:	B374129-BS1
Column:		Initial/Final:	5 g / 10 mL

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCS CONCENTRATION (mg/Kg wet)	LCS % REC.		QC LIMITS REC.
Acetone	0.200	0.202	101		70 - 160
Benzene	0.0200	0.0194	96.8		70 - 130
Bromochloromethane	0.0200	0.0202	101		70 - 130
Bromodichloromethane	0.0200	0.0197	98.5		70 - 130
Bromoform	0.0200	0.0155	77.5		70 - 130
Bromomethane	0.0200	0.0166	83.1		40 - 130
2-Butanone (MEK)	0.200	0.215	107		70 - 160
n-Butylbenzene	0.0200	0.0216	108		70 - 130
sec-Butylbenzene	0.0200	0.0216	108		70 - 130
tert-Butylbenzene	0.0200	0.0213	106		70 - 160
Carbon Disulfide	0.200	0.173	86.5		70 - 130
Carbon Tetrachloride	0.0200	0.0178	89.2		70 - 130
Chlorobenzene	0.0200	0.0169	84.4		70 - 130
Chlorodibromomethane	0.0200	0.0197	98.3		70 - 130
Chloroethane	0.0200	0.0193	96.5		70 - 130
Chloroform	0.0200	0.0193	96.7		70 - 130
Chloromethane	0.0200	0.0304	152	*	70 - 130
Cyclohexane	0.0200	0.0187	93.6		70 - 130
1,2-Dibromo-3-chloropropane (DBCP)	0.0200	0.0184	92.2		70 - 130
1,2-Dibromoethane (EDB)	0.0200	0.0222	111		70 - 130
1,2-Dichlorobenzene	0.0200	0.0223	112		70 - 130
1,3-Dichlorobenzene	0.0200	0.0220	110		70 - 130
1,4-Dichlorobenzene	0.0200	0.0221	110		70 - 130
Dichlorodifluoromethane (Freon 12)	0.0200	0.0140	70.2		40 - 160
1,1-Dichloroethane	0.0200	0.0194	97.2		70 - 130
1,2-Dichloroethane	0.0200	0.0214	107		70 - 130
1,1-Dichloroethylene	0.0200	0.0204	102		70 - 130
cis-1,2-Dichloroethylene	0.0200	0.0189	94.6		70 - 130
trans-1,2-Dichloroethylene	0.0200	0.0191	95.3		70 - 130
1,2-Dichloropropane	0.0200	0.0208	104		70 - 130
cis-1,3-Dichloropropene	0.0200	0.0203	101		70 - 130
trans-1,3-Dichloropropene	0.0200	0.0199	99.5		70 - 130
Ethylbenzene	0.0200	0.0195	97.3		70 - 130
2-Hexanone (MBK)	0.200	0.244	122		70 - 160
Isopropylbenzene (Cumene)	0.0200	0.0197	98.4		70 - 130
p-Isopropyltoluene (p-Cymene)	0.0200	0.0222	111		70 - 130
Methyl Acetate	0.0200	0.0219	110		70 - 130

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

SW-846 8260D

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Preparation:	SW-846 5035
Batch:	B374129	Laboratory ID:	B374129-BS1
Column:		Initial/Final:	5 g / 10 mL

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCS CONCENTRATION (mg/Kg wet)	LCS % REC.	QC LIMITS REC.
Methyl tert-Butyl Ether (MTBE)	0.0200	0.0199	99.5	70 - 130
Methyl Cyclohexane	0.0200	0.0204	102	70 - 130
Methylene Chloride	0.0200	0.0196	97.9	40 - 160
4-Methyl-2-pentanone (MIBK)	0.200	0.251	125	70 - 160
Naphthalene	0.0200	0.0231	116	40 - 130
n-Propylbenzene	0.0200	0.0205	102	70 - 130
Styrene	0.0200	0.0194	97.0	70 - 130
1,1,2,2-Tetrachloroethane	0.0200	0.0192	96.0	70 - 130
Tetrachloroethylene	0.0200	0.0219	110	70 - 130
Toluene	0.0200	0.0211	106	70 - 130
1,2,3-Trichlorobenzene	0.0200	0.0222	111	70 - 130
1,2,4-Trichlorobenzene	0.0200	0.0219	109	70 - 130
1,1,1-Trichloroethane	0.0200	0.0190	95.0	70 - 130
1,1,2-Trichloroethane	0.0200	0.0220	110	70 - 130
Trichloroethylene	0.0200	0.0204	102	70 - 130
Trichlorofluoromethane (Freon 11)	0.0200	0.0210	105	70 - 130
1,2,3-Trichloropropane	0.0200	0.0214	107	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0200	0.0204	102	70 - 130
1,2,4-Trimethylbenzene	0.0200	0.0209	105	70 - 130
1,3,5-Trimethylbenzene	0.0200	0.0192	95.8	70 - 130
Vinyl Chloride	0.0200	0.0181	90.4	40 - 130
m+p Xylene	0.0400	0.0399	99.6	70 - 130
o-Xylene	0.0200	0.0189	94.4	70 - 130

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCSD CONCENTRATION (mg/Kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acetone	0.200	0.210	105	3.63	25	70 - 160
Benzene	0.0200	0.0194	97.1	0.309	25	70 - 130
Bromochloromethane	0.0200	0.0205	103	1.57	25	70 - 130
Bromodichloromethane	0.0200	0.0194	97.2	1.33	25	70 - 130
Bromoform	0.0200	0.0152	75.8	2.22	25	70 - 130
Bromomethane	0.0200	0.0178	88.9	6.74	25	40 - 130
2-Butanone (MEK)	0.200	0.218	109	1.56	25	70 - 160
n-Butylbenzene	0.0200	0.0210	105	2.91	25	70 - 130
sec-Butylbenzene	0.0200	0.0211	106	2.15	25	70 - 130

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

SW-846 8260D

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Preparation:	SW-846 5035
Batch:	B374129	Laboratory ID:	B374129-BSD1
Column:		Initial/Final:	5 g / 10 mL

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCSD CONCENTRATION (mg/Kg wet)	LCSD % REC. #		% RPD #	QC LIMITS RPD	QC LIMITS REC.
tert-Butylbenzene	0.0200	0.0210	105		1.04	25	70 - 160
Carbon Disulfide	0.200	0.173	86.3		0.220	25	70 - 130
Carbon Tetrachloride	0.0200	0.0176	88.2		1.13	25	70 - 130
Chlorobenzene	0.0200	0.0172	85.9		1.76	25	70 - 130
Chlorodibromomethane	0.0200	0.0192	96.2		2.16	25	70 - 130
Chloroethane	0.0200	0.0194	97.1		0.620	25	70 - 130
Chloroform	0.0200	0.0198	98.8		2.15	25	70 - 130
Chloromethane	0.0200	0.0279	140	*	8.64	25	70 - 130
Cyclohexane	0.0200	0.0190	94.9		1.38	25	70 - 130
1,2-Dibromo-3-chloropropane (DBCP)	0.0200	0.0181	90.3		2.08	25	70 - 130
1,2-Dibromoethane (EDB)	0.0200	0.0220	110		1.27	25	70 - 130
1,2-Dichlorobenzene	0.0200	0.0221	110		0.991	25	70 - 130
1,3-Dichlorobenzene	0.0200	0.0219	109		0.547	25	70 - 130
1,4-Dichlorobenzene	0.0200	0.0219	110		0.545	25	70 - 130
Dichlorodifluoromethane (Freon 12)	0.0200	0.0140	70.2		0.00	25	40 - 160
1,1-Dichloroethane	0.0200	0.0198	98.9		1.73	25	70 - 130
1,2-Dichloroethane	0.0200	0.0211	105		1.79	25	70 - 130
1,1-Dichloroethylene	0.0200	0.0202	101		0.983	25	70 - 130
cis-1,2-Dichloroethylene	0.0200	0.0196	98.1		3.63	25	70 - 130
trans-1,2-Dichloroethylene	0.0200	0.0189	94.3		1.05	25	70 - 130
1,2-Dichloropropane	0.0200	0.0202	101		2.73	25	70 - 130
cis-1,3-Dichloropropene	0.0200	0.0198	99.2		2.19	25	70 - 130
trans-1,3-Dichloropropene	0.0200	0.0192	96.2		3.37	25	70 - 130
Ethylbenzene	0.0200	0.0193	96.5		0.826	25	70 - 130
2-Hexanone (MBK)	0.200	0.242	121		0.996	25	70 - 160
Isopropylbenzene (Cumene)	0.0200	0.0195	97.5		0.919	25	70 - 130
p-Isopropyltoluene (p-Cymene)	0.0200	0.0217	109		2.10	25	70 - 130
Methyl Acetate	0.0200	0.0227	114		3.49	25	70 - 130
Methyl tert-Butyl Ether (MTBE)	0.0200	0.0202	101		1.50	25	70 - 130
Methyl Cyclohexane	0.0200	0.0198	98.9		2.99	25	70 - 130
Methylene Chloride	0.0200	0.0198	99.0		1.12	25	40 - 160
4-Methyl-2-pentanone (MIBK)	0.200	0.247	124		1.46	25	70 - 160
Naphthalene	0.0200	0.0228	114		1.39	25	40 - 130
n-Propylbenzene	0.0200	0.0202	101		1.28	25	70 - 130
Styrene	0.0200	0.0193	96.3		0.724	25	70 - 130

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

SW-846 8260D

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Preparation:	SW-846 5035
Batch:	B374129	Laboratory ID:	B374129-BSD1
Column:		Initial/Final:	5 g / 10 mL

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCSD CONCENTRATION (mg/Kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1,2,2-Tetrachloroethane	0.0200	0.0193	96.7	0.727	25	70 - 130
Tetrachloroethylene	0.0200	0.0214	107	2.68	25	70 - 130
Toluene	0.0200	0.0208	104	1.62	25	70 - 130
1,2,3-Trichlorobenzene	0.0200	0.0219	110	1.36	25	70 - 130
1,2,4-Trichlorobenzene	0.0200	0.0214	107	2.13	25	70 - 130
1,1,1-Trichloroethane	0.0200	0.0189	94.6	0.422	25	70 - 130
1,1,2-Trichloroethane	0.0200	0.0215	107	2.39	25	70 - 130
Trichloroethylene	0.0200	0.0201	101	1.58	25	70 - 130
Trichlorofluoromethane (Freon 11)	0.0200	0.0203	102	3.39	25	70 - 130
1,2,3-Trichloropropane	0.0200	0.0208	104	2.94	25	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0200	0.0202	101	0.886	25	70 - 130
1,2,4-Trimethylbenzene	0.0200	0.0208	104	0.767	25	70 - 130
1,3,5-Trimethylbenzene	0.0200	0.0189	94.4	1.47	25	70 - 130
Vinyl Chloride	0.0200	0.0185	92.3	2.08	25	40 - 130
m+p Xylene	0.0400	0.0399	99.7	0.0502	25	70 - 130
o-Xylene	0.0200	0.0187	93.4	1.06	25	70 - 130

4 - FORM IV
METHOD BLANK SUMMARY

SW-846 8260D

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Blank ID:	B374129-BLK1	Batch:	B374129
Prepared:	05/13/2024 04:00		

Client Sample ID	Laboratory Sample ID	Lab File ID	Time Analyzed
LCS	B374129-BS1	G24V13403.D	04:43
LCS Dup	B374129-BSD1	G24V13404.D	05:08
SB1A	24E1437-06	G24V13409.D	07:16
CG-2	24E1437-02	G24V13410.D	07:42
Matrix Spike	B374129-MS1	G24V13411.D	08:09
Matrix Spike Dup	B374129-MSD1	G24V13412.D	08:36
B1A	24E1437-04	G24V13414.D	09:27
SB4A	24E1437-12	G24V13415.D	09:53
SB7	24E1437-17	G24V13416.D	10:18
DUP	24E1437-19	G24V13417.D	10:44

5 - FORM V
INSTRUMENT PERFORMANCE CHECK

SW-846 8260D

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Lab File ID:	G24V06103.D	Injection Date:	03/01/24
Instrument ID:	GCMSVOA7	Injection Time:	08:12
Sequence:	S101271	Lab Sample ID:	S101271-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
50	15 - 40% of 95	18.3	PASS
75	30 - 60% of 95	42.2	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.57	PASS
173	Less than 2% of 174	0.502	PASS
174	50 - 200% of 95	81.5	PASS
175	5 - 9% of 174	7.08	PASS
176	95 - 101% of 174	98.3	PASS
177	5 - 9% of 176	6.57	PASS

Client ID	Sample ID	File ID	Date Analyzed	Time Analyzed
0.4 PPB	S101271-CAL1	G24V06104.D	03/01/2024	8:38:00
0.5 PPB	S101271-CAL2	G24V06105.D	03/01/2024	9:03:00
1.0 PPB	S101271-CAL3	G24V06106.D	03/01/2024	9:30:00
2.0 PPB	S101271-CAL4	G24V06107.D	03/01/2024	9:57:00
5.0 PPB	S101271-CAL5	G24V06108.D	03/01/2024	10:22:00
10 PPB	S101271-CAL6	G24V06109.D	03/01/2024	10:48:00
20 PPB	S101271-CAL7	G24V06110.D	03/01/2024	11:13:00
50 PPB	S101271-CAL8	G24V06111.D	03/01/2024	11:39:00
100 PPB	S101271-CAL9	G24V06112.D	03/01/2024	12:05:00
200 PPB	S101271-CALA	G24V06113.D	03/01/2024	12:30:00
Initial Cal Check	S101271-ICV1	G24V06116.D	03/01/2024	13:52:00

CALIBRATION DATA

6 - FORM VI
INITIAL CALIBRATION DATA SHEET

SW-846 8260D

Client: NYS Division of Environmental Remediation SDG: 24E1437

Project: Tivoli Memorial Park- CO 149634

Calibration: 2400276 Instrument: GCMSVOA7

Calibration Date: 3/1/2024 8:12:46AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
Acetone			5	0.2456517	10	0.1878684	20	0.167986	50	0.1817413	100	0.1561618
Acrylonitrile			0.5	0.2193878	1	0.1573094	2	0.1713295	5	0.1446197	10	0.1412442
tert-Amyl Alcohol (TAA)	4	3.607487E-02	5	5.010954E-02	10	3.776444E-02	20	3.937213E-02	50	3.583822E-02	100	3.877722E-02
tert-Amyl Ethyl Ether (TAEE)	0.4	0.3712973	0.5	0.4287307	1	0.3610522	2	0.4093976	5	0.3545341	10	0.3719853
tert-Amyl Methyl Ether (TAME)	0.4	1.005139	0.5	1.0632	1	0.8493287	2	0.907912	5	0.7975571	10	0.8501977
Benzene	0.4	1.599115	0.5	1.539393	1	1.314729	2	1.523095	5	1.213512	10	1.239085
Bromobenzene	0.4	1.008274	0.5	1.169074	1	0.9518957	2	1.137371	5	0.9321397	10	0.9743972
Bromochloromethane	0.4	0.3740391	0.5	0.4037682	1	0.3462842	2	0.3880612	5	0.2988292	10	0.3033843
Bromodichloromethane	0.4	0.2467502	0.5	0.2732735	1	0.2337184	2	0.2612727	5	0.2230096	10	0.2364036
Bromoform	0.4	0.4048389	0.5	0.4240235	1	0.3393295	2	0.3892053	5	0.3441001	10	0.3606103
Bromomethane									5	0.1948319	10	0.1792521
2-Butanone (MEK)	4	0.2409047	5	0.2462479	10	0.1909007	20	0.193412	50	0.2050512	100	0.195316
tert-Butyl Alcohol (TBA)	4	7.405077E-02	5	7.145641E-02	10	5.349131E-02	20	5.405911E-02	50	4.623221E-02	100	0.0484631
n-Butylbenzene	0.4	1.50981	0.5	1.751802	1	1.490213	2	1.842769	5	1.486928	10	1.574537
sec-Butylbenzene	0.4	1.786224	0.5	2.053742	1	1.778831	2	2.176515	5	1.730018	10	1.846606
tert-Butylbenzene	0.4	1.290967	0.5	1.456649	1	1.258691	2	1.470475	5	1.209187	10	1.254634
tert-Butyl Ethyl Ether (TBEE)	0.4	1.139221	0.5	1.209529	1	1.008997	2	1.138056	5	0.9467534	10	0.9962899
Carbon Disulfide			5	0.5734819	10	0.4745661	20	0.5569892	50	0.519293	100	0.4323405
Carbon Tetrachloride	0.4	0.3250271	0.5	0.3371782	1	0.2753475	2	0.3522307	5	0.2675822	10	0.2938036
Chlorobenzene	0.4	1.634104	0.5	1.887285	1	1.498881	2	1.807393	5	1.429139	10	1.533882
Chlorodibromomethane	0.4	0.2224716	0.5	0.2531557	1	0.1971081	2	0.2331466	5	0.2048164	10	0.210707
Chloroethane			0.5	0.4058822	1	0.343742	2	0.4042633	5	0.2748625	10	0.284569
Chloroform	0.4	0.7136464	0.5	0.7179041	1	0.6063583	2	0.6727142	5	0.5260839	10	0.539011
Chloromethane			0.5	1.014198	1	0.8212428	2	0.8797833	5	0.5264516	10	0.6455935
2-Chlorotoluene	0.4	1.630983	0.5	1.826851	1	1.502711	2	1.859363	5	1.518183	10	1.586378
4-Chlorotoluene	0.4	2.007339	0.5	2.272616	1	1.866132	2	2.268432	5	1.883259	10	1.98033
Cyclohexane	0.4	2.015886	0.5	1.678323	1	1.078266	2	0.9978876	5	0.6412987	10	0.6243953
1,2-Dibromo-3-chloropropane (D	0.4	0.115949	0.5	0.1210511	1	8.912595E-02	2	0.1008596	5	9.020578E-02	10	0.0936086
1,2-Dibromoethane (EDB)	0.4	0.2075399	0.5	0.2462602	1	0.1951985	2	0.2123229	5	0.1865976	10	0.1982401
Dibromomethane	0.4	0.1127984	0.5	0.1240745	1	0.0951077	2	0.1047393	5	8.812804E-02	10	9.185008E-02
1,2-Dichlorobenzene	0.4	0.9025154	0.5	1.043516	1	0.8195945	2	0.9693901	5	0.8099517	10	0.8360843

6 - FORM VI
INITIAL CALIBRATION DATA SHEET

SW-846 8260D

Client: NYS Division of Environmental Remediation SDG: 24E1437

Project: Tivoli Memorial Park- CO 149634

Calibration: 2400276 Instrument: GCMSVOA7

Calibration Date: 3/1/2024 8:12:46AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
1,3-Dichlorobenzene	0.4	0.9285119	0.5	1.095513	1	0.8414947	2	1.02259	5	0.8331611	10	0.8686188
1,4-Dichlorobenzene	0.4	0.9492746	0.5	1.117109	1	0.9251342	2	1.039336	5	0.8660772	10	0.9023437
trans-1,4-Dichloro-2-butene	0.4	0.2237227	0.5	0.2973201	1	0.1946004	2	0.2266223	5	0.2022197	10	0.2152216
Dichlorodifluoromethane (Freon			0.5	0.3902811	1	0.3154121	2	0.3723342	5	0.1505674	10	0.2764498
1,1-Dichloroethane	0.4	0.648484	0.5	0.6536817	1	0.5752828	2	0.6634559	5	0.5130244	10	0.5312545
1,2-Dichloroethane	0.4	0.245477	0.5	0.2732962	1	0.2322834	2	0.2465268	5	0.2101568	10	0.2226232
1,1-Dichloroethylene	0.4	0.706132	0.5	0.8534096	1	0.7394866	2	0.8210394	5	0.6445885	10	0.5523574
cis-1,2-Dichloroethylene	0.4	0.6208937	0.5	0.6131781	1	0.5184602	2	0.6054398	5	0.4757071	10	0.4847226
trans-1,2-Dichloroethylene	0.4	0.5537125	0.5	0.4867204	1	0.4490488	2	0.5274515	5	0.3950675	10	0.4144998
Dichlorofluoromethane (Freon 2			0.5	1.169364	1	1.004869	2	1.166043	5	0.8620198	10	0.9016216
1,2-Dichloropropane	0.4	0.2255101	0.5	0.2239577	1	0.2123172	2	0.2350653	5	0.1884714	10	0.2033009
1,3-Dichloropropane	0.4	0.3282672	0.5	0.3800067	1	0.3098543	2	0.3288511	5	0.2824034	10	0.3018144
2,2-Dichloropropane	0.4	0.5121027	0.5	0.5306064	1	0.4470964	2	0.5368008	5	0.4079394	10	0.4165273
1,1-Dichloropropene	0.4	0.4761008	0.5	0.4194116	1	0.3633472	2	0.4276112	5	0.3076339	10	0.314749
cis-1,3-Dichloropropene	0.4	0.3289328	0.5	0.3754552	1	0.3216735	2	0.3585686	5	0.3005257	10	0.3229449
trans-1,3-Dichloropropene	0.4	0.2841375	0.5	0.321292	1	0.2711762	2	0.30055	5	0.2495995	10	0.2699978
Diethyl Ether	0.4	0.6220713	0.5	0.5765218	1	0.5351775	2	0.535689	5	0.4504115	10	0.4607112
Difluorochloromethane (Freon 2			0.5	0.5948711	1	0.5327574	2	0.5752997	5	0.3609787	10	0.4212746
Diisopropyl Ether (DIPE)	0.4	1.551057	0.5	1.483542	1	1.298093	2	1.371263	5	1.135052	10	1.213847
1,4-Dioxane							20	3.243195E-03	50	2.493076E-03	100	2.470696E-03
Ethyl Acetate			0.5	0.4979667	1	0.3731701	2	0.3825729	5	0.3444992	10	0.3309196
Ethylbenzene	0.4	2.580107	0.5	2.813762	1	2.363427	2	2.851506	5	2.322074	10	2.422162
Hexachlorobutadiene	0.4	0.2898724	0.5	0.3583388	1	0.2901659	2	0.3577481	5	0.2825677	10	0.2872536
2-Hexanone (MBK)	4	0.2060641	5	0.2328081	10	0.1779747	20	0.1834163	50	0.1800872	100	0.1877277
Iodomethane					10	0.4977893	20	0.6025016	50	0.4698951	100	0.5057306
Isopropylbenzene (Cumene)	0.4	2.336564	0.5	2.662492	1	2.300922	2	2.78783	5	2.236596	10	2.333685
p-Isopropyltoluene (p-Cymene)	0.4	1.687126	0.5	1.870974	1	1.639166	2	1.992314	5	1.609389	10	1.671536
Methyl Acetate			0.5	0.5057461	1	0.3912297	2	0.371091	5	0.4521847	10	0.3983035
Methyl tert-Butyl Ether (MTBE)	0.4	1.047646	0.5	1.012211	1	0.8921185	2	0.9696173	5	0.8192068	10	0.8439119
Methyl Cyclohexane			0.5	0.3436172	1	0.3407131	2	0.3894091	5	0.2977761	10	0.3153816
Methylene Chloride	0.4	0.6258285	0.5	0.6157994	1	0.4792701	2	0.5285735	5	0.4092798	10	0.411421

6 - FORM VI
INITIAL CALIBRATION DATA SHEET

SW-846 8260D

Client: NYS Division of Environmental Remediation SDG: 24E1437

Project: Tivoli Memorial Park- CO 149634

Calibration: 2400276 Instrument: GCMSVOA7

Calibration Date: 3/1/2024 8:12:46AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
4-Methyl-2-pentanone (MIBK)	4	0.2559437	5	0.2907126	10	0.226985	20	0.2392464	50	0.2359053	100	0.2481017
Naphthalene	0.4	1.927019	0.5	2.404653	1	1.748052	2	1.940508	5	1.695861	10	1.76455
n-Propylbenzene	0.4	2.769026	0.5	2.981983	1	2.683218	2	3.226338	5	2.670502	10	2.767018
Styrene	0.4	1.59181	0.5	1.93126	1	1.54435	2	1.87809	5	1.563773	10	1.664088
1,1,1,2-Tetrachloroethane	0.4	0.523138	0.5	0.5865945	1	0.4706109	2	0.567597	5	0.4942829	10	0.5241283
1,1,2,2-Tetrachloroethane	0.4	0.756771	0.5	0.894724	1	0.6496831	2	0.755029	5	0.6717967	10	0.7160931
Tetrachloroethylene	0.4	0.2152083	0.5	0.2164477	1	0.2033454	2	0.2358949	5	0.1857218	10	0.1992434
Tetrahydrofuran					1	0.1686374	2	0.1700863	5	0.1479899	10	0.1515887
Toluene	0.4	0.8477825	0.5	0.9538855	1	0.8017996	2	0.9151769	5	0.7303822	10	0.7757778
1,2,3-Trichlorobenzene	0.4	0.6568141	0.5	0.7874743	1	0.5932396	2	0.6950409	5	0.5719738	10	0.6003467
1,2,4-Trichlorobenzene	0.4	0.6948886	0.5	0.8292002	1	0.6287079	2	0.7446472	5	0.6110502	10	0.6356791
1,3,5-Trichlorobenzene	0.4	0.7478018	0.5	0.8134269	1	0.6424126	2	0.7564758	5	0.6257262	10	0.6591899
1,1,1-Trichloroethane	0.4	0.5428334	0.5	0.5568196	1	0.485351	2	0.5566617	5	0.4278695	10	0.4341723
1,1,2-Trichloroethane	0.4	0.197296	0.5	0.2388639	1	0.1747577	2	0.1986436	5	0.1698468	10	0.1802936
Trichloroethylene	0.4	0.2200698	0.5	0.2298519	1	0.2027126	2	0.2377572	5	0.1811778	10	0.1901884
Trichlorofluoromethane (Freon 1					1	0.7513433	2	0.8877681	5	0.6243979	10	0.6719547
1,2,3-Trichloropropane	0.4	0.8417497	0.5	0.8403699	1	0.7452345	2	0.6996987	5	0.6403817	10	0.6757604
1,1,2-Trichloro-1,2,2-trifluoroeth			0.5	0.5577075	1	0.4395513	2	0.5082678	5	0.414224	10	0.3682774
1,2,3-Trimethylbenzene	0.4	1.574801	0.5	1.766888	1	1.509199	2	1.764254	5	1.464329	10	1.548719
1,2,4-Trimethylbenzene	0.4	1.505209	0.5	1.760606	1	1.489303	2	1.705814	5	1.415479	10	1.487293
1,3,5-Trimethylbenzene	0.4	1.988065	0.5	2.154757	1	1.909369	2	2.323399	5	1.889797	10	2.030439
Vinyl Acetate	4	1.076565	5	1.002719	10	0.8785128	20	0.9483687	50	0.8953258	100	0.9200716
Vinyl Chloride			0.5	0.6726652	1	0.640342	2	0.7379672	5	0.454226	10	0.5584693
m+p Xylene	0.8	1.977452	1	2.171247	2	1.776852	4	2.193711	10	1.790586	20	1.876348
o-Xylene	0.4	1.862509	0.5	2.212919	1	1.802571	2	2.171197	5	1.815313	10	1.880363
1,2-Dichloroethane-d4	25	0.535013	25	0.5081019	25	0.4887392	25	0.4846178	25	0.4687416	25	0.4621493
Toluene-d8	25	1.174931	25	1.224378	25	1.169413	25	1.195136	25	1.175699	25	1.151848
4-Bromofluorobenzene	25	1.227252	25	1.195971	25	1.174835	25	1.208681	25	1.196048	25	1.204742

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

SW-846 8260D

Client: NYS Division of Environmental Remediation SDG: 24E1437

Project: Tivoli Memorial Park- CO 149634

Calibration: 2400276 Instrument: GCMSVOA7

Calibration Date: 3/1/2024 8:12:46AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
		RF		RF		RF		RF		RF		RF
Acetone	200	0.161062	500	0.1565737	1000	0.2190332	2000	0.1560289				
Acrylonitrile	20	0.15132	50	0.1456652	100	0.153961	200	0.1469781				
tert-Amyl Alcohol (TAA)	200	3.907993E-02	500	4.084618E-02	1000	4.527405E-02	2000	4.092798E-02				
tert-Amyl Ethyl Ether (TAEE)	20	0.4217951	50	0.5161327	100	0.5463508	200	0.5828421				
tert-Amyl Methyl Ether (TAME)	20	0.9166977	50	0.986494	100	1.060136	200	1.073825				
Benzene	20	1.427013	50	1.621372	100	1.719432	200	1.544295				
Bromobenzene	20	1.07825	50	1.327993	100	1.398087	200	1.515195				
Bromochloromethane	20	0.3364211	50	0.3418878	100	0.3331507	200	0.3037649				
Bromodichloromethane	20	0.2629788	50	0.3160424	100	0.3220202	200	0.3703556				
Bromoform	20	0.3797997	50	0.4518272	100	0.4508878	200	0.486282				
Bromomethane	20	0.2010273	50	0.1655869	100	0.1309581	200	0.139607				
2-Butanone (MEK)	200	0.2031324	500	0.215854	1000	0.2741054	2000	0.1997063				
tert-Butyl Alcohol (TBA)	200	4.845784E-02	500	4.918413E-02	1000	0.0538232	2000	4.891701E-02				
n-Butylbenzene	20	1.81551	50	2.512903								
sec-Butylbenzene	20	2.078429	50	2.706331	100	2.578905	200	1.881803				
tert-Butylbenzene	20	1.397709	50	1.772885	100	1.776649	200	1.670315				
tert-Butyl Ethyl Ether (TBEE)	20	1.113004	50	1.188696	100	1.249568	200	1.269448				
Carbon Disulfide	200	0.531799	500	0.6024827	1000	0.5119435						
Carbon Tetrachloride	20	0.3549657	50	0.4139183	100	0.4390485	200	0.4427401				
Chlorobenzene	20	1.671509	50	2.002842	100	2.051229	200	2.10213				
Chlorodibromomethane	20	0.227778	50	0.2742524	100	0.2722006	200	0.2979797				
Chloroethane	20	0.3230701	50	0.2474322								
Chloroform	20	0.6193658	50	0.6620316	100	0.6859864	200	0.6661662				
Chloromethane	20	0.7250619	50	0.7985887	100	0.6424929	200	0.7584137				
2-Chlorotoluene	20	1.747455	50	2.195507	100	2.250421	200	2.127836				
4-Chlorotoluene	20	2.229135	50	2.986296	100	3.003965	200	2.283956				
Cyclohexane	20	0.6992223	50	0.7774064	100	0.7782362	200	0.8090813				
1,2-Dibromo-3-chloropropane (D	20	9.256518E-02	50	0.1004869	100	0.1011026	200	0.1112728				
1,2-Dibromoethane (EDB)	20	0.2064789	50	0.2384416	100	0.2399606	200	0.2590599				
Dibromomethane	20	9.810976E-02	50	0.113357	100	0.1153568	200	0.1157388				
1,2-Dichlorobenzene	20	0.9110357	50	1.106952	100	1.067643	200	1.064616				

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

SW-846 8260D

Client: NYS Division of Environmental Remediation SDG: 24E1437

Project: Tivoli Memorial Park- CO 149634

Calibration: 2400276 Instrument: GCMSVOA7

Calibration Date: 3/1/2024 8:12:46AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
		RF		RF		RF		RF		RF		RF
1,3-Dichlorobenzene	20	0.9472916	50	1.146009	100	1.127433	200	1.206672				
1,4-Dichlorobenzene	20	0.9724116	50	1.180956	100	1.152755	200	1.203493				
trans-1,4-Dichloro-2-butene	20	0.224565	50	0.2584841	100	0.2635765	200	0.2852691				
Dichlorodifluoromethane (Freon	20	0.318508	50	0.3465038								
1,1-Dichloroethane	20	0.6046502	50	0.656114	100	0.6629416	200	0.6388201				
1,2-Dichloroethane	20	0.2392082	50	0.2843502	100	0.2919031	200	0.3418189				
1,1-Dichloroethylene	20	0.7958337	50	0.7071479	100	0.832588	200	0.7799967				
cis-1,2-Dichloroethylene	20	0.5698171	50	0.6341583	100	0.6644004	200	0.6864255				
trans-1,2-Dichloroethylene	20	0.4809511	50	0.539259	100	0.5442687	200	0.5594773				
Dichlorofluoromethane (Freon 2	20	1.038095	50	1.078116	100	0.979711						
1,2-Dichloropropane	20	0.2258887	50	0.2727772	100	0.282038	200	0.3287692				
1,3-Dichloropropane	20	0.3239071	50	0.3892945	100	0.4112	200	0.4661298				
2,2-Dichloropropane	20	0.4953157	50	0.5565856	100	0.5840193	200	0.6012989				
1,1-Dichloropropene	20	0.3747135	50	0.4263732	100	0.4441344	200	0.4495114				
cis-1,3-Dichloropropene	20	0.3517397	50	0.4195868	100	0.4243692	200	0.4916982				
trans-1,3-Dichloropropene	20	0.2948149	50	0.3545644	100	0.359291	200	0.4149076				
Diethyl Ether	20	0.4945658	50	0.4962303	100	0.4861192	200	0.4258263				
Difluorochloromethane (Freon 2	20	0.4877345	50	0.5376174	100	0.4501375	200	0.5071227				
Diisopropyl Ether (DIPE)	20	1.377989	50	1.601939	100	1.69591	200	1.661772				
1,4-Dioxane	200	2.627645E-03	500	2.791629E-03	1000	2.734129E-03						
Ethyl Acetate	20	0.3696747	50	0.3667466	100	0.3955852						
Ethylbenzene	20	2.708307	50	3.374432	100	3.433976	200	2.437253				
Hexachlorobutadiene	20	0.3121103	50	0.3993379	100	0.3874547	200	0.4379				
2-Hexanone (MBK)	200	0.1978223	500	0.2473197	1000	0.1861023						
Iodomethane	200	0.6168464	500	0.6982348	1000	0.5200004	2000	0.3592785				
Isopropylbenzene (Cumene)	20	2.629724	50	3.356367	100	3.386382	200	2.431052				
p-Isopropyltoluene (p-Cymene)	20	1.892575	50	2.422533	100	2.311366	200	1.765606				
Methyl Acetate	20	0.4024057	50	0.4000468	100	0.4984592	200	0.3923388				
Methyl tert-Butyl Ether (MTBE)	20	0.9153594	50	0.9629761	100	1.002192	200	1.004043				
Methyl Cyclohexane	20	0.3670732	50	0.4779355	100	0.4770856						
Methylene Chloride	20	0.458217	50	0.4759185	100	0.4695254	200	0.4493026				

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

SW-846 8260D

Client: NYS Division of Environmental Remediation SDG: 24E1437

Project: Tivoli Memorial Park- CO 149634

Calibration: 2400276 Instrument: GCMSVOA7

Calibration Date: 3/1/2024 8:12:46AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
		RF		RF		RF		RF		RF		RF
4-Methyl-2-pentanone (MIBK)	200	0.2684445	500	0.3185559	1000	0.2188987						
Naphthalene	20	1.780211	50	2.033619	100	2.020683	200	1.715392				
n-Propylbenzene	20	3.130541	50	4.013416	100	3.78199	200	2.499532				
Styrene	20	1.854014	50	2.364909	100	2.42912	200	2.064681				
1,1,1,2-Tetrachloroethane	20	0.5762656	50	0.6819843	100	0.6756245	200	0.7510338				
1,1,2,2-Tetrachloroethane	20	0.7479053	50	0.8928703	100	0.9463524	200	0.9888566				
Tetrachloroethylene	20	0.2285492	50	0.2861996	100	0.2827619	200	0.3031645				
Tetrahydrofuran	20	0.1615402	50	0.1568736	100	0.1693825						
Toluene	20	0.949347	50	1.179405	100	1.238657	200	0.8966295				
1,2,3-Trichlorobenzene	20	0.6115628	50	0.7151516	100	0.6861287	200	0.7682651				
1,2,4-Trichlorobenzene	20	0.6652862	50	0.7900303	100	0.7631549	200	0.8551395				
1,3,5-Trichlorobenzene	20	0.696239	50	0.8453646	100	0.8099488	200	0.9160824				
1,1,1-Trichloroethane	20	0.5146655	50	0.5676693	100	0.58044	200	0.5808639				
1,1,2-Trichloroethane	20	0.1908573	50	0.2232306	100	0.2245684	200	0.2502018				
Trichloroethylene	20	0.2172039	50	0.2616049	100	0.261139	200	0.297363				
Trichlorofluoromethane (Freon 1	20	0.7921407	50	0.852282	100	0.7582126	200	0.6418233				
1,2,3-Trichloropropane	20	0.6865794	50	0.7847487	100	0.7905916	200	1.085898				
1,1,2-Trichloro-1,2,2-trifluoroeth	20	0.5176396	50	0.4731374	100	0.5315479	200	0.4905148				
1,2,3-Trimethylbenzene	20	1.71275	50	2.183814	100	2.162005	200	1.744076				
1,2,4-Trimethylbenzene	20	1.664694	50	2.164806	100	2.164478	200	1.716236				
1,3,5-Trimethylbenzene	20	2.301783	50	3.104012	100	3.08757	200	2.260593				
Vinyl Acetate	200	1.057672	500	0.8888793								
Vinyl Chloride	20	0.6507266	50	0.7124644	100	0.5677161	200	0.646678				
m+p Xylene	40	2.13592	100	2.789081	200	2.26804	400	1.448065				
o-Xylene	20	2.125066	50	2.723125	100	2.831775	200	2.365447				
1,2-Dichloroethane-d4	25	0.4699904	25	0.4287429	25	0.4484863	25	0.4028473				
Toluene-d8	25	1.166493	25	1.186256	25	1.216208	25	1.197586				
4-Bromofluorobenzene	25	1.171163	25	1.154793	25	1.163543	25	1.180119				

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

SW-846 8260D

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Calibration:	2400276	Instrument:	GCMSVOA7
		Calibration Date:	3/1/2024 8:12:46AM

COMPOUND	Mean RF	RF RSD	Linear r^2	Quad COD	LIMIT	Q
Acetone	0.1813452	17.5			20	
Acrylonitrile	0.1590905	15.3			20	
tert-Amyl Alcohol (TAA)	4.040646E-02	10.8			20	
tert-Amyl Ethyl Ether (TAEE)	0.4364118	19.0			20	
tert-Amyl Methyl Ether (TAME)	0.9510487	10.6			20	
Benzene	1.474104	11.5			20	
Bromobenzene	1.149268	17.6			20	
Bromochloromethane	0.3429591	10.6			20	
Bromodichloromethane	0.2745825	17.2			20	
Bromoform	0.4030904	12.3			20	
Bromomethane	0.1685439	17.0			20	
2-Butanone (MEK)	0.2164631	12.9			20	
tert-Butyl Alcohol (TBA)	5.481351E-02	17.9			20	
n-Butylbenzene	1.748059	19.6			20	
sec-Butylbenzene	2.06174	16.5			20	
tert-Butylbenzene	1.455816	14.8			20	
tert-Butyl Ethyl Ether (TBEE)	1.125956	9.8			20	
Carbon Disulfide	0.525362	10.4			20	
Carbon Tetrachloride	0.3501842	18.3			20	
Chlorobenzene	1.761839	13.8			20	
Chlorodibromomethane	0.2393616	14.1			20	
Chloroethane	0.3262602	19.1			20	
Chloroform	0.6409268	10.5			20	
Chloromethane	0.7568696	19.1			20	
2-Chlorotoluene	1.824569	15.4			20	
4-Chlorotoluene	2.278146	18.0			20	
Cyclohexane	1.01	46.6	0.999		0.99	
1,2-Dibromo-3-chloropropane (DBCP)	0.1016228	10.9			20	
1,2-Dibromoethane (EDB)	0.21901	11.3			20	
Dibromomethane	0.105926	11.4			20	
1,2-Dichlorobenzene	0.9531299	11.8			20	

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

SW-846 8260D

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Calibration:	2400276	Instrument:	GCMSVOA7
		Calibration Date:	3/1/2024 8:12:46AM

COMPOUND	Mean RF	RF RSD	Linear r^2	Quad COD	LIMIT	Q
1,3-Dichlorobenzene	1.00173	13.6			20	
1,4-Dichlorobenzene	1.030889	12.1			20	
trans-1,4-Dichloro-2-butene	0.2391602	14.6			20	
Dichlorodifluoromethane (Freon 12)	0.3100081	25.8	0.995		0.99	
1,1-Dichloroethane	0.6147709	9.2			20	
1,2-Dichloroethane	0.2587644	15.2			20	
1,1-Dichloroethylene	0.743258	12.6			20	
cis-1,2-Dichloroethylene	0.5873203	12.4			20	
trans-1,2-Dichloroethylene	0.4950457	12.0			20	
Dichlorofluoromethane (Freon 21)	1.02498	10.9			20	
1,2-Dichloropropane	0.2398096	17.7			20	
1,3-Dichloropropane	0.3521729	16.3			20	
2,2-Dichloropropane	0.5088293	13.2			20	
1,1-Dichloropropene	0.4003586	14.4			20	
cis-1,3-Dichloropropene	0.3695495	16.1			20	
trans-1,3-Dichloropropene	0.3120331	16.3			20	
Diethyl Ether	0.5083324	11.8			20	
Difluorochloromethane (Freon 22)	0.4964215	15.2			20	
Diisopropyl Ether (DIPE)	1.439046	13.3			20	
1,4-Dioxane	2.726728E-03	10.4			20	
Ethyl Acetate	0.3826419	13.3			20	
Ethylbenzene	2.730701	14.6			20	
Hexachlorobutadiene	0.3402749	16.4			20	
2-Hexanone (MBK)	0.1999247	12.3			20	
Iodomethane	0.5337846	19.5			20	
Isopropylbenzene (Cumene)	2.646161	15.9			20	
p-Isopropyltoluene (p-Cymene)	1.886259	15.0			20	
Methyl Acetate	0.4235339	11.7			20	
Methyl tert-Butyl Ether (MTBE)	0.9469282	8.1			20	
Methyl Cyclohexane	0.3761239	18.2			20	
Methylene Chloride	0.4923136	15.4			20	

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

SW-846 8260D

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Calibration:	2400276	Instrument:	GCMSVOA7
		Calibration Date:	3/1/2024 8:12:46AM

COMPOUND	Mean RF	RF RSD	Linear r^2	Quad COD	LIMIT	Q
4-Methyl-2-pentanone (MIBK)	0.255866	12.5			20	
Naphthalene	1.903055	11.4			20	
n-Propylbenzene	3.052356	16.4			20	
Styrene	1.88861	16.9			20	
1,1,1,2-Tetrachloroethane	0.585126	15.5			20	
1,1,2,2-Tetrachloroethane	0.8020082	14.8			20	
Tetrachloroethylene	0.2356537	17.3			20	
Tetrahydrofuran	0.1608712	5.6			20	
Toluene	0.9288843	17.8			20	
1,2,3-Trichlorobenzene	0.6685998	11.2			20	
1,2,4-Trichlorobenzene	0.7217784	12.1			20	
1,3,5-Trichlorobenzene	0.7512668	12.7			20	
1,1,1-Trichloroethane	0.5247346	10.9			20	
1,1,2-Trichloroethane	0.204856	13.6			20	
Trichloroethylene	0.2299069	15.6			20	
Trichlorofluoromethane (Freon 11)	0.7474903	12.9			20	
1,2,3-Trichloropropane	0.7791013	16.5			20	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1	0.4778742	12.7			20	
1,2,3-Trimethylbenzene	1.743084	14.4			20	
1,2,4-Trimethylbenzene	1.707392	15.7			20	
1,3,5-Trimethylbenzene	2.304978	19.3			20	
Vinyl Acetate	0.9585143	8.1			20	
Vinyl Chloride	0.6268061	13.9			20	
m+p Xylene	2.04273	17.7			20	
o-Xylene	2.179028	16.9			20	
1,2-Dichloroethane-d4	0.469743	8.1			20	
Toluene-d8	1.185795	1.9			20	
4-Bromofluorobenzene	1.187715	1.9			20	

INITIAL CALIBRATION STANDARDS

SW-846 8260D

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Sequence:	S101271	Instrument:	GCMSVOA7
Calibration:	2400276		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
24A0445	8260 CLP STD 10ppm	S101271-TUN1	G24V06103.D	03/01/24 08:12
24A0558	0.4ppb 8260 Calibration Standard	S101271-CAL1	G24V06104.D	03/01/24 08:38
24A0559	0.5ppb 8260 Calibration Standard	S101271-CAL2	G24V06105.D	03/01/24 09:03
24A0560	1.0ppb 8260 Calibration Standard	S101271-CAL3	G24V06106.D	03/01/24 09:30
24A0561	2.0ppb 8260 Calibration Standard	S101271-CAL4	G24V06107.D	03/01/24 09:57
24A0562	5.0ppb 8260 Calibration Standard	S101271-CAL5	G24V06108.D	03/01/24 10:22
24A0557	10ppb 8260 Calibration Standard	S101271-CAL6	G24V06109.D	03/01/24 10:48
24A0563	20ppb 8260 Calibration Standard	S101271-CAL7	G24V06110.D	03/01/24 11:13
24A0564	50ppb 8260 Calibration Standard	S101271-CAL8	G24V06111.D	03/01/24 11:39
24A0565	100ppb 8260 Calibration Standard	S101271-CAL9	G24V06112.D	03/01/24 12:05
24A0566	200ppb 8260 Calibration Standard	S101271-CALA	G24V06113.D	03/01/24 12:30

X:\1\data\G030124\

Date	Filename	Lab ID	Sample Info
1 Mar 2024 7:47 am	G24V06102.D	BLK	
1 Mar 2024 8:12 am	G24V06103.D	BFB	
1 Mar 2024 8:38 am	G24V06104.D	8260 STD	0.4PPB
1 Mar 2024 9:03 am	G24V06105.D	8260 STD	0.5PPB
1 Mar 2024 9:30 am	G24V06106.D	8260 STD	1.0PPB
1 Mar 2024 9:57 am	G24V06107.D	8260 STD	2.0PPB
1 Mar 2024 10:22 am	G24V06108.D	8260 STD	5.0PPB
1 Mar 2024 10:48 am	G24V06109.D	8260 STD	10PPB
1 Mar 2024 11:13 am	G24V06110.D	8260 STD	20PPB
1 Mar 2024 11:39 am	G24V06111.D	8260 STD	50PPB
1 Mar 2024 12:05 pm	G24V06112.D	8260 STD	100PPB
1 Mar 2024 12:30 pm	G24V06113.D	8260 STD	200PPB
1 Mar 2024 1:00 pm	G24V06114.D	BLK	
1 Mar 2024 1:27 pm	G24V06115.D	CHK	
1 Mar 2024 1:52 pm	G24V06116.D	ICV-2	
1 Mar 2024 2:17 pm	G24V06117.D	CHK	

Response Factor Report GCMSVOA7

Method Path : X:\1\methods\
Method File : GS030124.M
Title : 8260 SIM/SCAN 09/21/18
Last Update : Fri Mar 01 13:48:51 2024
Response Via : Initial Calibration

Calibration Files
0.4 =G24V06104.D 0.5 =G24V06105.D 1.0 =G24V06106.D 2.0 =G24V06107.D 5.0 =G24V06108.D 10 =G24V06109.D 20 =G24V06110.D
50 =G24V06111.D 100 =G24V06112.D 200 =G24V06113.D

		Compound	0.4	0.5	1.0	2.0	5.0	10	20	50	100	200	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------											
2)	S	1,2-Dichloroet...	0.535	0.508	0.489	0.485	0.469	0.462	0.470	0.429	0.448	0.403	0.470	8.08
3)	T	Dichlorodifluo...		0.390	0.315	0.372	0.151	0.276	0.319	0.347			0.310	25.78
4)	T	Difluorochloro...		0.595	0.533	0.575	0.361	0.421	0.488	0.538	0.450	0.507	0.496	15.15
5)	P	Chloromethane		1.014	0.821	0.880	0.526	0.646	0.725	0.799	0.642	0.758	0.757	19.08
6)	C	Vinyl chloride		0.673	0.640	0.738	0.454	0.558	0.651	0.712	0.568	0.647	0.627	13.92#
7)	T	Bromomethane					0.195	0.179	0.201	0.166	0.131	0.140	0.169	17.03
8)	T	Chloroethane		0.406	0.344	0.404	0.275	0.285	0.323	0.247			0.326	19.11
9)	T	Ethanol											0.000	-1.00
10)	T	Fluorodichloro...		1.169	1.005	1.166	0.862	0.902	1.038	1.078	0.980		1.025	10.94
11)	T	Trichlorofluor...			0.751	0.888	0.624	0.672	0.792	0.852	0.758	0.642	0.747	12.87
12)	T	Diethyl ether	0.622	0.577	0.535	0.536	0.450	0.461	0.495	0.496	0.486	0.426	0.508	11.79
13)	T	Acrolein											0.000	-1.00
14)	T	Acetone		0.246	0.188	0.168	0.182	0.156	0.161	0.157	0.219	0.156	0.181	17.52
15)	C	1,1-Dichloroet...	0.706	0.853	0.739	0.821	0.645	0.552	0.796	0.707	0.833	0.780	0.743	12.62#
16)	T	1,1,2-TRICL-1,...		0.558	0.440	0.508	0.414	0.368	0.518	0.473	0.532	0.491	0.478	12.70
17)	T	Iodomethane			0.498	0.603	0.470	0.506	0.617	0.698	0.520	0.359	0.534	19.45
18)	T	Allyl chloride											0.000	-1.00
19)	T	Methyl acetate		0.506	0.391	0.371	0.452	0.398	0.402	0.400	0.498	0.392	0.424	11.69
20)	T	t-Butyl alcohol	0.074	0.071	0.053	0.054	0.046	0.048	0.048	0.049	0.054	0.049	0.055	17.95
21)	T	Acrylonitrile		0.219	0.157	0.171	0.145	0.141	0.151	0.146	0.154	0.147	0.159	15.28
22)	T	Methylene chlo...	0.626	0.616	0.479	0.529	0.409	0.411	0.458	0.476	0.470	0.449	0.492	15.41
23)	T	Carbon disulfide		0.573	0.475	0.557	0.519	0.432	0.532	0.602	0.512		0.525	10.36
24)	T	Methyl tert-bu...	1.048	1.012	0.892	0.970	0.819	0.844	0.915	0.963	1.002	1.004	0.947	8.06
25)	T	TRANS 1,2-DICH...	0.554	0.487	0.449	0.527	0.395	0.414	0.481	0.539	0.544	0.559	0.495	12.02
26)	P	1,1-Dichloroet...	0.648	0.654	0.575	0.663	0.513	0.531	0.605	0.656	0.663	0.639	0.615	9.17
27)	T	Propionitrile											0.000	-1.00
28)	T	Vinyl acetate	1.077	1.003	0.879	0.948	0.895	0.920	1.058	0.889			0.959	8.13
29)	T	Chloroprene											0.000	-1.00
30)	T	Di isopropyl e...	1.551	1.484	1.298	1.371	1.135	1.214	1.378	1.602	1.696	1.662	1.439	13.27
31)	T	2-Butanone (MEK)	0.241	0.246	0.191	0.193	0.205	0.195	0.203	0.216	0.274	0.200	0.216	12.91
32)	T	Methacrylonitrile											0.000	-1.00
33)	T	t-Butyl ethyl ...	1.139	1.210	1.009	1.138	0.947	0.996	1.113	1.189	1.250	1.269	1.126	9.81
34)	T	cis-1,2-Dichlo...	0.621	0.613	0.518	0.605	0.476	0.485	0.570	0.634	0.664	0.686	0.587	12.45
35)	T	2,2-Dichloropr...	0.512	0.531	0.447	0.537	0.408	0.417	0.495	0.557	0.584	0.601	0.509	13.17
36)	T	Ethyl acetate		0.498	0.373	0.383	0.344	0.331	0.370	0.367	0.396		0.383	13.29
37)	T	Bromochloromet...	0.374	0.404	0.346	0.388	0.299	0.303	0.336	0.342	0.333	0.304	0.343	10.60
38)	T	Tetrahydrofuran			0.169	0.170	0.148	0.152	0.162	0.157	0.169		0.161	5.60
39)	C	Chloroform	0.714	0.718	0.606	0.673	0.526	0.539	0.619	0.662	0.686	0.666	0.641	10.48#
40)	T	Isobutanol											0.000	-1.00
41)	T	tert-Butyl for...											0.000	-1.00
42)	T	1,1,1-Trichlor...	0.543	0.557	0.485	0.557	0.428	0.434	0.515	0.568	0.580	0.581	0.525	10.95
43)	T	Cyclohexane	2.016	1.678	1.078	0.998	0.641	0.624	0.699	0.777	0.778	0.809	1.010	46.59

Method Path : X:\1\methods\
Method File : GS030124.M
Title : 8260 SIM/SCAN 09/21/18

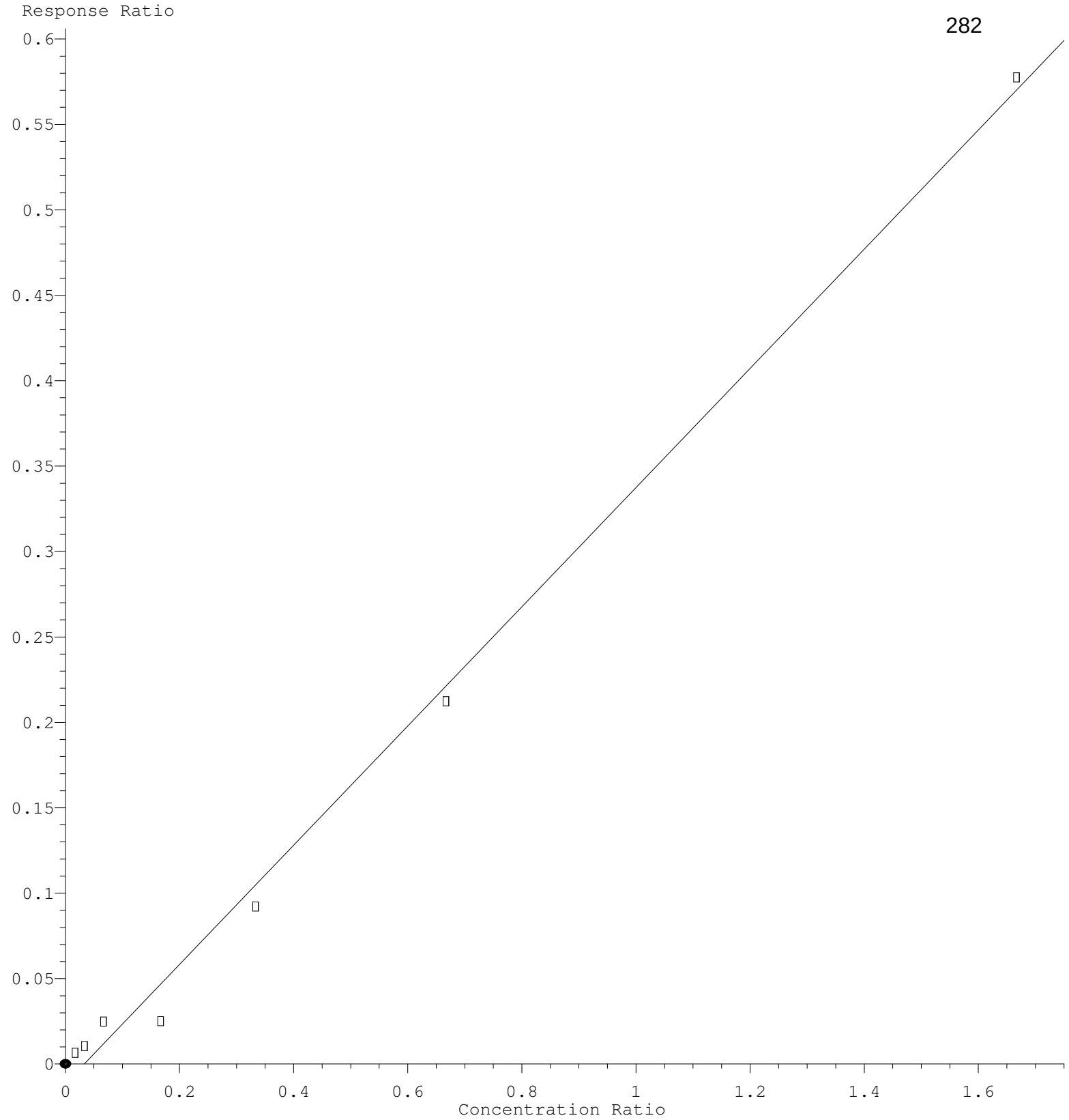
44)	T	Carbon tetrach...	0.325	0.337	0.275	0.352	0.268	0.294	0.355	0.414	0.439	0.443	0.350	18.30
45)	T	1,1-Dichloropr...	0.476	0.419	0.363	0.428	0.308	0.315	0.375	0.426	0.444	0.450	0.400	14.37
46)	T	Benzene	1.599	1.539	1.315	1.523	1.214	1.239	1.427	1.621	1.719	1.544	1.474	11.53
47)	T	tert-Amyl Alco...	0.036	0.050	0.038	0.039	0.036	0.039	0.039	0.041	0.045	0.041	0.040	10.77
48)	T	T-AMYL METHYL ...	1.005	1.063	0.849	0.908	0.798	0.850	0.917	0.986	1.060	1.074	0.951	10.56
49)	I	1,4-Difluorobenzen...	----------ISTD----------											
50)	S	Toluene SS	1.175	1.224	1.169	1.195	1.176	1.152	1.166	1.186	1.216	1.198	1.186	1.92
51)	T	1,2-Dichloroet...	0.245	0.273	0.232	0.247	0.210	0.223	0.239	0.284	0.292	0.342	0.259	15.21
52)	T	Methyl methacr...											0.000	-1.00
53)	T	Trichloroethene	0.220	0.230	0.203	0.238	0.181	0.190	0.217	0.262	0.261	0.297	0.230	15.58
54)	T	Methylcyclohexane		0.344	0.341	0.389	0.298	0.315	0.367	0.478	0.477		0.376	18.24
55)	C	1,2-Dichloropr...	0.226	0.224	0.212	0.235	0.188	0.203	0.226	0.273	0.282	0.329	0.240	17.68#
56)		tert-Amyl Ethy...	0.371	0.429	0.361	0.409	0.355	0.372	0.422	0.516	0.546	0.583	0.436	18.97
57)	T	Dibromomethane	0.113	0.124	0.095	0.105	0.088	0.092	0.098	0.113	0.115	0.116	0.106	11.40
58)	T	1,4-Dioxane				0.003	0.002	0.002	0.003	0.003	0.003		0.003	10.39
59)	T	Bromodichlorom...	0.247	0.273	0.234	0.261	0.223	0.236	0.263	0.316	0.322	0.370	0.275	17.18
60)	T	2-Chloroethyl ...											0.000	-1.00
61)	T	MIBK	0.256	0.291	0.227	0.239	0.236	0.248	0.268	0.319	0.219		0.256	12.54
62)	T	cis-1,3-Dichlo...	0.329	0.375	0.322	0.359	0.301	0.323	0.352	0.420	0.424	0.492	0.370	16.08
63)	C	Toluene	0.848	0.954	0.802	0.915	0.730	0.776	0.949	1.179	1.239	0.897	0.929	17.82#
64)	T	trans-1,3-Dich...	0.284	0.321	0.271	0.301	0.250	0.270	0.295	0.355	0.359	0.415	0.312	16.29
65)	T	Ethyl methacry...											0.000	-1.00
66)	T	1,1,2-Trichlor...	0.197	0.239	0.175	0.199	0.170	0.180	0.191	0.223	0.225	0.250	0.205	13.58
67)	T	2-Hexanone (MBK)	0.206	0.233	0.178	0.183	0.180	0.188	0.198	0.247	0.186		0.200	12.33
68)	T	Tetrachloroethene	0.215	0.216	0.203	0.236	0.186	0.199	0.229	0.286	0.283	0.303	0.236	17.34
69)	T	1,3-Dichloropr...	0.328	0.380	0.310	0.329	0.282	0.302	0.324	0.389	0.411	0.466	0.352	16.32
70)	T	Dibromochlorom...	0.222	0.253	0.197	0.233	0.205	0.211	0.228	0.274	0.272	0.298	0.239	14.05
71)	T	1,2-Dibromoethane	0.208	0.246	0.195	0.212	0.187	0.198	0.206	0.238	0.240	0.259	0.219	11.33
72)	I	Chlorobenzene-d5 ...	----------ISTD----------											
73)	S	4-Bromofluorob...	1.227	1.196	1.175	1.209	1.196	1.205	1.171	1.155	1.164	1.180	1.188	1.90
74)	T	Chlorobenzene	1.634	1.887	1.499	1.807	1.429	1.534	1.672	2.003	2.051	2.102	1.762	13.80
75)	T	1,1,1,2-Tetrac...	0.523	0.587	0.471	0.568	0.494	0.524	0.576	0.682	0.676	0.751	0.585	15.54
76)	C	Ethylbenzene	2.580	2.814	2.363	2.852	2.322	2.422	2.708	3.374	3.434	2.437	2.731	14.63#
77)	T	m/p-Xylenes	1.977	2.171	1.777	2.194	1.791	1.876	2.136	2.789	2.268	1.448	2.043	17.69
78)	T	o-Xylene	1.863	2.213	1.803	2.171	1.815	1.880	2.125	2.723	2.832	2.365	2.179	16.93
79)	T	Styrene	1.592	1.931	1.544	1.878	1.564	1.664	1.854	2.365	2.429	2.065	1.889	16.89
80)	P	Bromoform	0.405	0.424	0.339	0.389	0.344	0.361	0.380	0.452	0.451	0.486	0.403	12.30
81)	T	Isopropylbenzene	2.337	2.662	2.301	2.788	2.237	2.334	2.630	3.356	3.386	2.431	2.646	15.93
82)	T	cis-1,4-Dichlo...											0.000	-1.00
83)	P	1,1,2,2-Tetrac...	0.757	0.895	0.650	0.755	0.672	0.716	0.748	0.893	0.946	0.989	0.802	14.83
84)	T	1,4-Dichloro-2...	0.224	0.297	0.195	0.227	0.202	0.215	0.225	0.258	0.264	0.285	0.239	14.62
85)	T	Bromobenzene	1.008	1.169	0.952	1.137	0.932	0.974	1.078	1.328	1.398	1.515	1.149	17.64
86)	T	1,2,3-Trichlor...	0.842	0.840	0.745	0.700	0.640	0.676	0.687	0.785	0.791	1.086	0.779	16.45
87)	T	n-Propylbenzene	2.769	2.982	2.683	3.226	2.671	2.767	3.131	4.013	3.782	2.500	3.052	16.37
88)	T	2-Chlorotoluene	1.631	1.827	1.503	1.859	1.518	1.586	1.747	2.196	2.250	2.128	1.825	15.39
89)	T	1,3,5-Trimethy...	1.988	2.155	1.909	2.323	1.890	2.030	2.302	3.104	3.088	2.261	2.305	19.30
90)	T	4-Chlorotoluene	2.007	2.273	1.866	2.268	1.883	1.980	2.229	2.986	3.004	2.284	2.278	18.03
91)	I	1,4-Dichlorobenzen...	----------ISTD----------											
92)	T	tert-Butylbenzene	1.291	1.457	1.259	1.470	1.209	1.255	1.398	1.773	1.777	1.670	1.456	14.85
93)	T	1,2,4-Trimethy...	1.505	1.761	1.489	1.706	1.415	1.487	1.665	2.165	2.164	1.716	1.707	15.68

Method Path : X:\1\methods\
Method File : GS030124.M
Title : 8260 SIM/SCAN 09/21/18

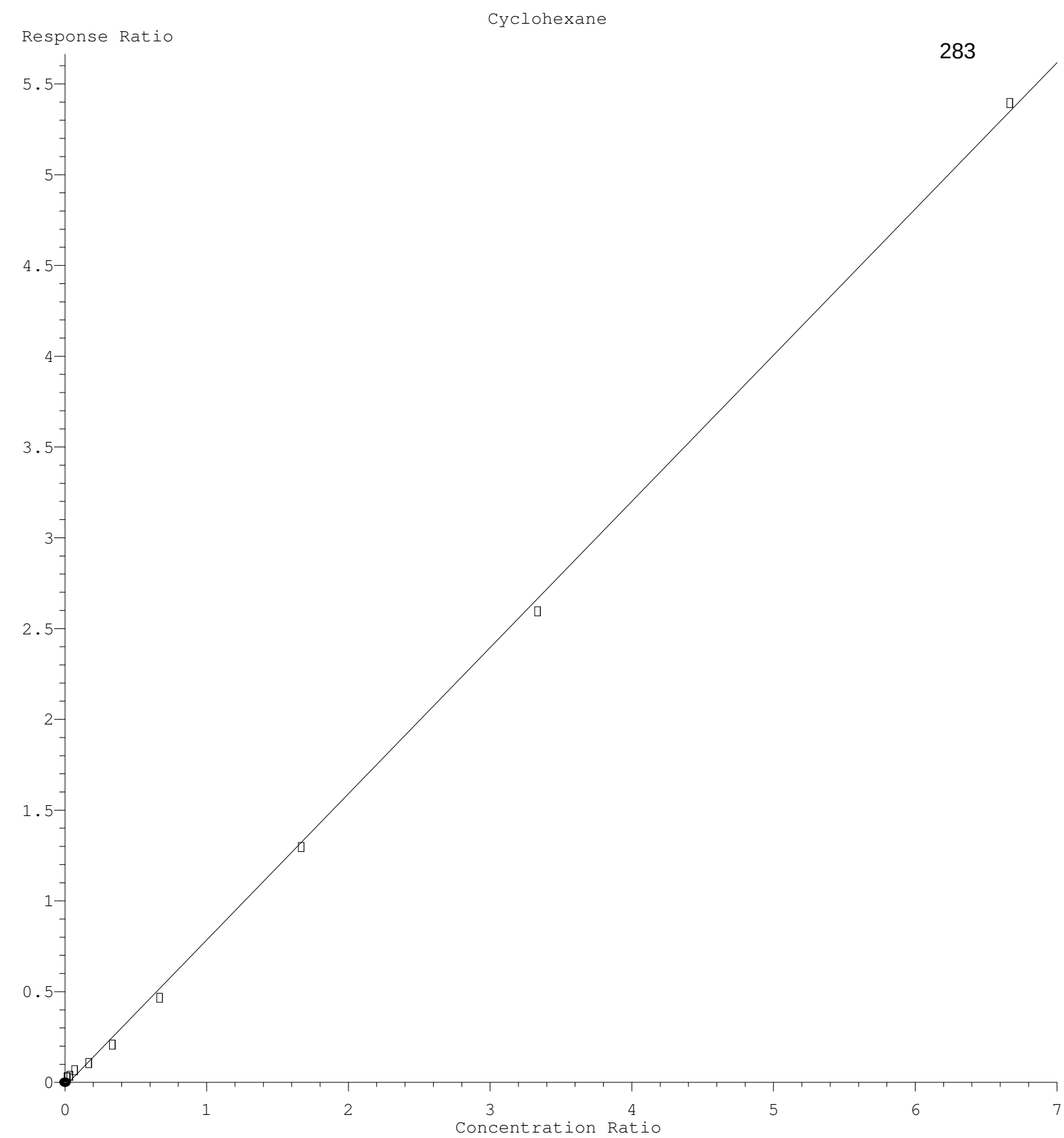
94)	T	sec-Butylbenzene	1.786	2.054	1.779	2.177	1.730	1.847	2.078	2.706	2.579	1.882	2.062	16.50
95)	T	1,3-Dichlorobe...	0.929	1.096	0.841	1.023	0.833	0.869	0.947	1.146	1.127	1.207	1.002	13.64
96)	T	p-Isopropyltol...	1.687	1.871	1.639	1.992	1.609	1.672	1.893	2.423	2.311	1.766	1.886	14.97
97)	T	1,4-Dichlorobe...	0.949	1.117	0.925	1.039	0.866	0.902	0.972	1.181	1.153	1.203	1.031	12.08
98)		1,2,3-Trimethy...	1.575	1.767	1.509	1.764	1.464	1.549	1.713	2.184	2.162	1.744	1.743	14.44
99)	T	n-Butylbenzene	1.510	1.752	1.490	1.843	1.487	1.575	1.816	2.513			1.748	19.58
100)	T	1,2-Dichlorobe...	0.903	1.044	0.820	0.969	0.810	0.836	0.911	1.107	1.068	1.065	0.953	11.81
101)	T	1,2-Dibromo-3-...	0.116	0.121	0.089	0.101	0.090	0.094	0.093	0.100	0.101	0.111	0.102	10.93
102)	T	1,3,5-Trichlor...	0.748	0.813	0.642	0.756	0.626	0.659	0.696	0.845	0.810	0.916	0.751	12.74
103)	T	1,2,4-Trichlor...	0.695	0.829	0.629	0.745	0.611	0.636	0.665	0.790	0.763	0.855	0.722	12.08
104)	T	Hexachlorobuta...	0.290	0.358	0.290	0.358	0.283	0.287	0.312	0.399	0.387	0.438	0.340	16.35
105)	T	Naphthalene	1.927	2.405	1.748	1.941	1.696	1.765	1.780	2.034	2.021	1.715	1.903	11.36
106)	T	1,2,3-Trichlor...	0.657	0.787	0.593	0.695	0.572	0.600	0.612	0.715	0.686	0.768	0.669	11.18

(#) = Out of Range

Dichlorodifluoromethane



Response = 3.490e-001 * Amt - 1.152e-002
Coef of Det (r^2) = 0.995 Curve Fit: Linear
Method Name: X:\1\methods\GS030124.M
Calibration Table Last Updated: Fri Mar 01 13:48:51 2024

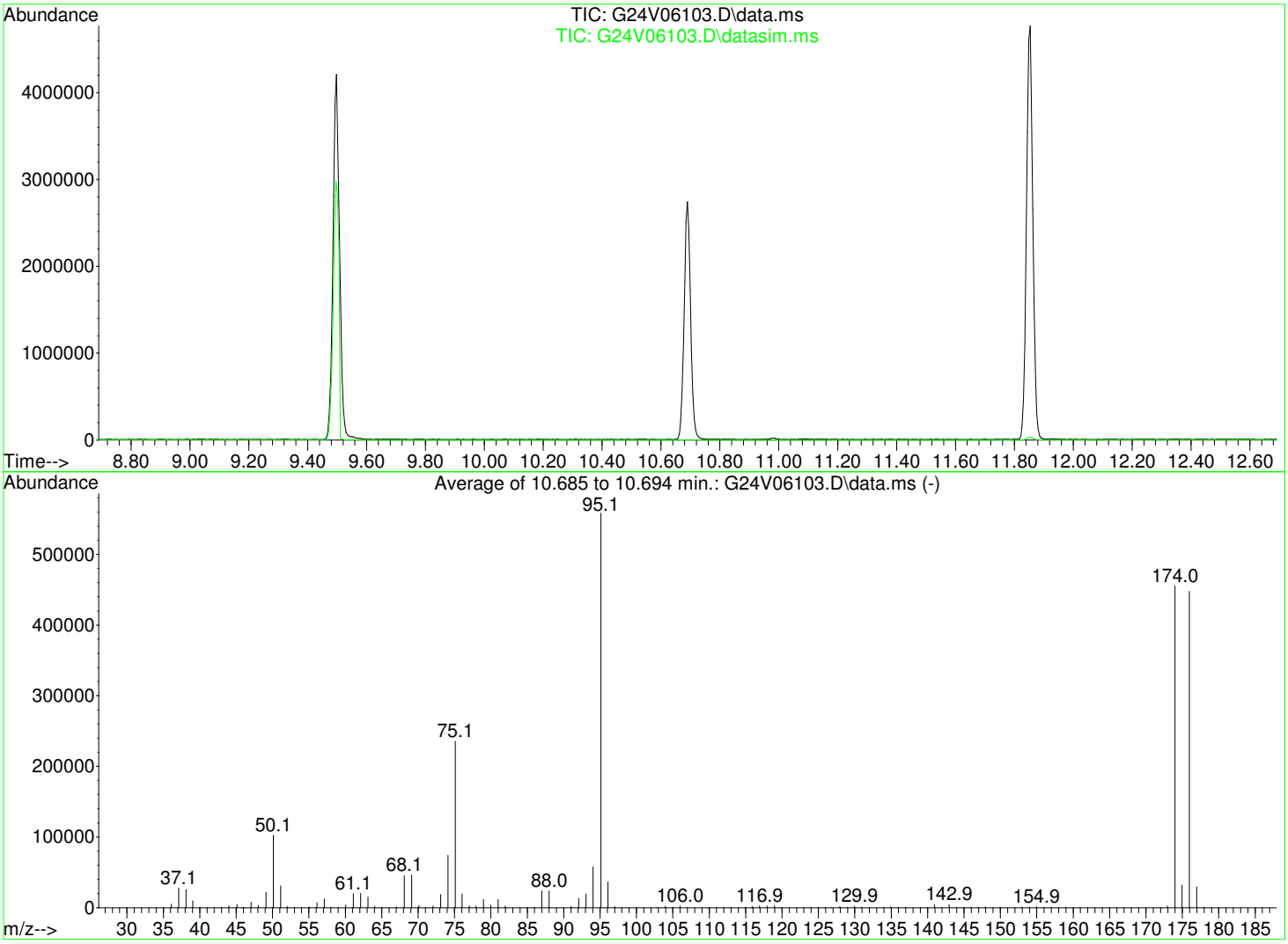


Response = 8.053e-001 * Amt - 2.176e-002
Coef of Det (r^2) = 0.999 Curve Fit: Linear
Method Name: X:\1\methods\GS030124.M
Calibration Table Last Updated: Fri Mar 01 13:48:51 2024

Data Path : X:\1\data\G030124\
Data File : G24V06103.D
Acq On : 1 Mar 2024 8:12 am
Operator :
Sample : BFB Inst : GCMSVOA7
Misc :
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p

Method : X:\1\methods\GS071223-TAEE-2ND-IS.M
Title : 8260 SIM/SCAN 09/21/18
Last Update : Thu Feb 22 14:13:34 2024



AutoFind: Scans 1981, 1982, 1983; Background Corrected with Scan 1970

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.3	102432	PASS
75	95	30	60	42.2	235563	PASS
95	95	100	100	100.0	558443	PASS
96	95	5	9	6.6	36709	PASS
173	174	0.00	2	0.5	2285	PASS
174	95	50	100	81.5	455339	PASS
175	174	5	9	7.1	32219	PASS
176	174	95	101	98.3	447552	PASS
177	176	5	9	6.6	29421	PASS

Data Path : X:\1\data\G030124\
Data File : G24V06104.D
Acq On : 1 Mar 2024 8:38 am
Operator :
Sample : 8260 STD 0.4PPB Inst : GCMSVOA7
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 01 09:23:30 2024
Quant Method : X:\1\methods\GS071223-TAEE-2ND-IS.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Thu Feb 22 14:13:34 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.579	168	1337427	30.00	ug/L		0.00
49) 1,4-Difluorobenzene - ...	6.420	114	2591791	30.00	ug/L		0.00
72) Chlorobenzene-d5 ISTD	9.498	82	961123	30.00	ug/L	#	0.00
91) 1,4-Dichlorobenzene-d4...	11.854	152	1304022	30.00	ug/L		0.00
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4	5.866	65	596284	24.27	ug/L		0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 97.08%				
50) Toluene SS	8.021	98	2537647	25.11	ug/L		0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 100.44%				
73) 4-Bromofluorobenzene SS	10.690	95	982950	24.21	ug/L		0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 96.84%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.242	85	10858	0.76	ug/L		87
4) Difluorochloromethane	1.262	51	13587	0.41	ug/L		100
5) Chloromethane	1.404	50	24640	1.31	ug/L		98
6) Vinyl chloride	1.475	62	16394	0.97	ug/L		94
7) Bromomethane	1.733	94	9861	2.05	ug/L		93
8) Chloroethane	1.820	64	8620	1.32	ug/L		99
10) Fluorodichloromethane	2.002	67	20015	0.95	ug/L		96
11) Trichlorofluoromethane	2.058	101	17186	0.87	ug/L		92
12) Diethyl ether	2.342	59	11093	0.81	ug/L		93
13) Acrolein	2.438	56	35256	8.44	ug/L		93
14) Acetone	2.610	43	48537	7.35	ug/L		95
15) 1,1-Dichloroethene	2.539	61	12592	0.51	ug/L		91
16) 1,1,2-TRICL-1,2,2-TRIF...	2.570	101	9473	Below Cal			91
17) Iodomethane	2.686	142	107200	4.95	ug/L		100
19) Methyl acetate	2.982	43	10753	0.73	ug/L		87
20) t-Butyl alcohol	3.282	59	13205m	5.65	ug/L		
21) Acrylonitrile	3.372	53	3073	0.52	ug/L	#	69
22) Methylene chloride	3.077	49	11160	0.62	ug/L		87
23) Carbon disulfide	2.767	76	148407	5.21	ug/L	#	84
24) Methyl tert-butyl ethe...	3.458	73	18682	0.47	ug/L		85
25) TRANS 1,2-DICHLOROETHENE	3.415	61	9874	0.48	ug/L		98
26) 1,1-Dichloroethane	4.005	63	11564	0.44	ug/L		95
28) Vinyl acetate	4.139	43	191977	6.36	ug/L		89
30) Di isopropyl ether	4.200	45	27659	0.62	ug/L		81
31) 2-Butanone (MEK)	4.904	43	42959	5.79	ug/L		89
33) t-Butyl ethyl ether	4.724	59	20315	0.42	ug/L		94
34) cis-1,2-Dichloroethene	4.839	61	11072	0.47	ug/L		88
35) 2,2-Dichloropropane	4.839	77	9132	0.43	ug/L	#	100
36) Ethyl acetate	5.033	43	8254	0.59	ug/L		100
37) Bromochloromethane	5.138	49	6670	0.56	ug/L	#	83
38) Tetrahydrofuran	5.268	42	4842m	0.91	ug/L		
39) Chloroform	5.278	83	12726	0.56	ug/L	#	51
42) 1,1,1-Trichloroethane	5.493	97	9680	0.46	ug/L		99
43) Cyclohexane	5.574	56	35948	0.83	ug/L	#	1
44) Carbon tetrachloride	5.699	117	5796	1.06	ug/L	#	6
45) 1,1-Dichloropropene	5.713	75	8490	0.59	ug/L		97
46) Benzene	5.942	78	28516	0.52	ug/L	#	81
47) tert-Amyl Alcohol (TAA)	6.049	59	6433	8.60	ug/L	#	59
48) T-AMYL METHYL ETHER	6.136	73	17924	0.43	ug/L		78
51) 1,2-Dichloroethane	5.957	62	8483	0.34	ug/L		75
53) Trichloroethene	6.701	95	7605	0.42	ug/L		91
54) Methylcyclohexane	6.920	83	12597	0.42	ug/L	#	79
55) 1,2-Dichloropropane	6.944	63	7793	0.39	ug/L	#	54

Data Path : X:\1\data\G030124\
Data File : G24V06104.D
Acq On : 1 Mar 2024 8:38 am
Operator :
Sample : 8260 STD 0.4PPB Inst : GCMSVOA7
Misc :
ALS Vial : 4 Sample Multiplier: 1

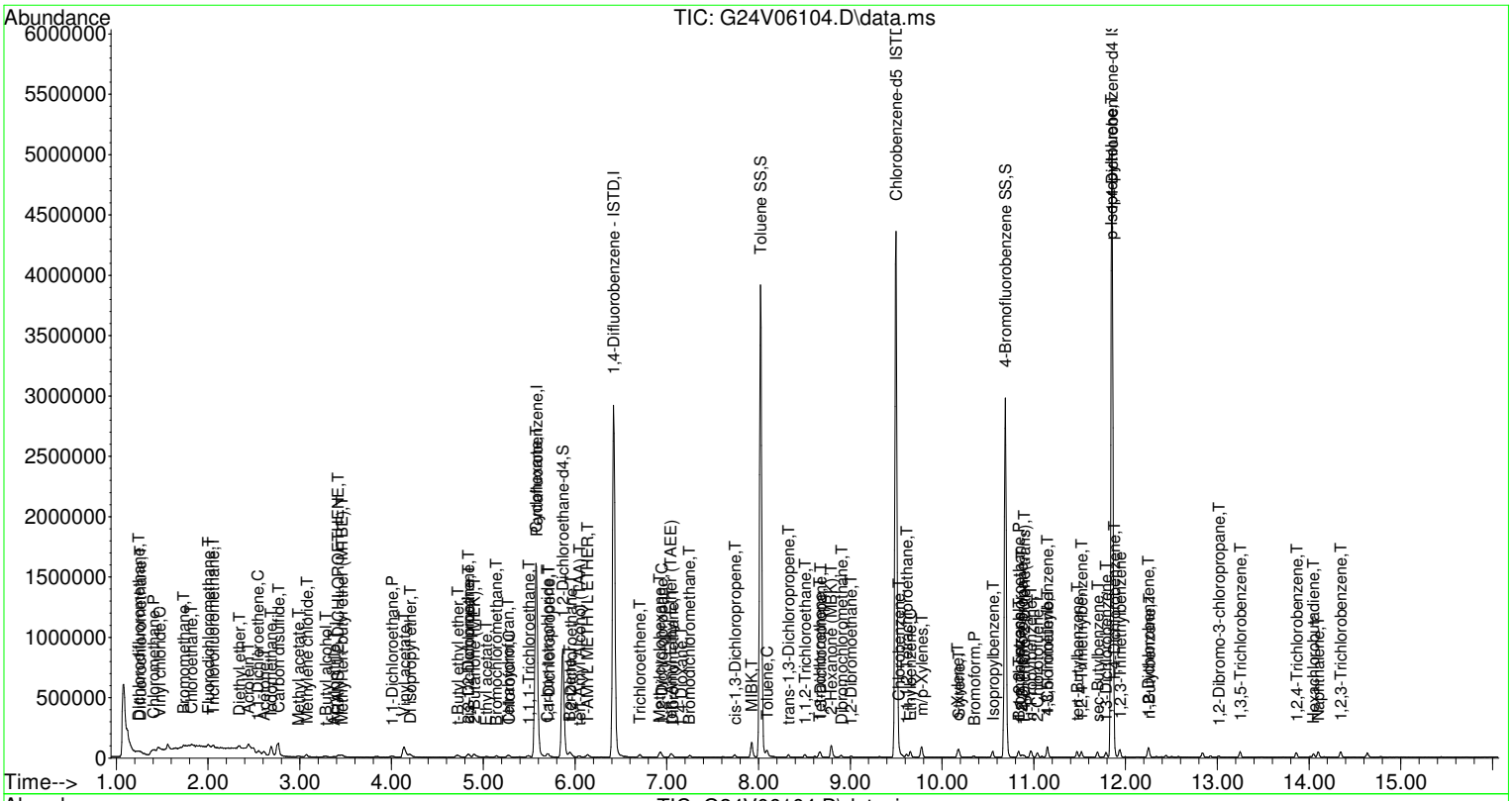
Quant Time: Mar 01 09:23:30 2024
Quant Method : X:\1\methods\GS071223-TAEE-2ND-IS.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Thu Feb 22 14:13:34 2024
Response via : Initial Calibration

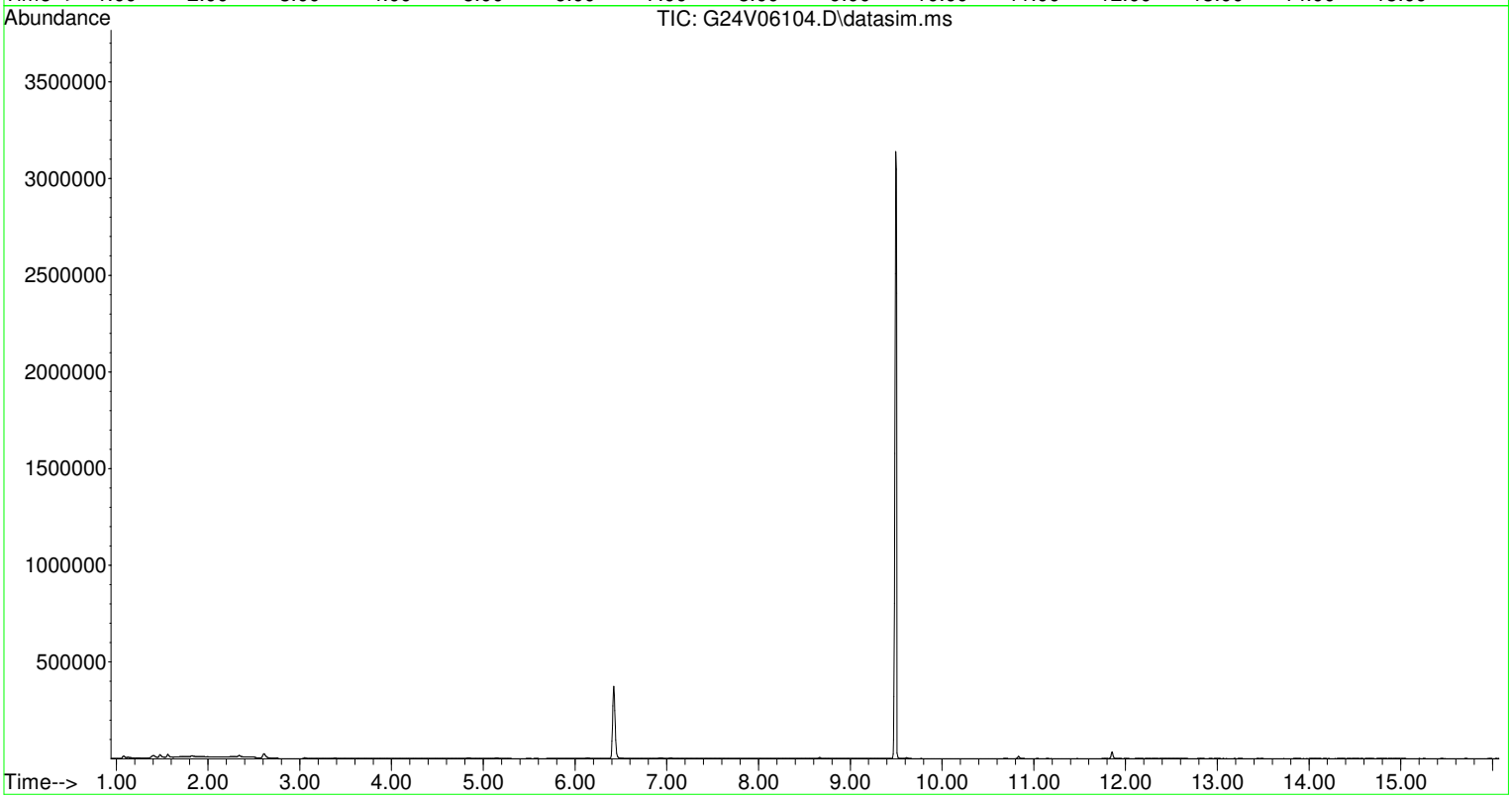
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
56) tert-Amyl Ethyl Ether ...	7.041	59	12831	0.73	ug/L #	100
57) Dibromomethane	7.066	93	3898	0.41	ug/L	91
58) 1,4-Dioxane	7.158	88	807m	3.55	ug/L	
59) Bromodichloromethane	7.246	83	8527	0.35	ug/L	95
61) MIBK	7.924	43	88447	4.77	ug/L	86
62) cis-1,3-Dichloropropene	7.746	75	11367	0.36	ug/L	94
63) Toluene	8.093	91	29297	0.41	ug/L	99
64) trans-1,3-Dichloropropene	8.325	75	9819	0.36	ug/L	96
66) 1,1,2-Trichloroethane	8.504	97	6818	0.42	ug/L	88
67) 2-Hexanone (MBK)	8.792	43	71210	5.05	ug/L	82
68) Tetrachloroethene	8.663	166	7437	0.42	ug/L	89
69) 1,3-Dichloropropane	8.673	76	11344	0.41	ug/L	98
70) Dibromochloromethane	8.906	129	7688	0.38	ug/L	92
71) 1,2-Dibromoethane	9.006	107	7172	0.41	ug/L	92
74) Chlorobenzene	9.526	112	20941	0.43	ug/L #	51
75) 1,1,1,2-Tetrachloroethane	9.612	131	6704	0.36	ug/L	95
76) Ethylbenzene	9.653	91	33064	0.42	ug/L	98
77) m/p-Xylenes	9.780	91	50682	0.83	ug/L	95
78) o-Xylene	10.169	91	23868	0.36	ug/L	94
79) Styrene	10.183	104	20399	0.37	ug/L	96
80) Bromoform	10.350	173	5188	0.36	ug/L	88
81) Isopropylbenzene	10.554	105	29943	0.37	ug/L	99
83) 1,1,2,2-Tetrachloroethane	10.835	83	9698	0.42	ug/L	96
84) 1,4-Dichloro-2-butene(...	10.894	53	2867	0.31	ug/L #	55
85) Bromobenzene	10.835	77	12921	0.38	ug/L	94
86) 1,2,3-Trichloropropane	10.871	75	10787m	0.41	ug/L	
87) n-Propylbenzene	10.966	91	35485	0.38	ug/L	100
88) 2-Chlorotoluene	11.039	91	20901	0.38	ug/L	99
89) 1,3,5-Trimethylbenzene	11.147	105	25477	0.37	ug/L	100
90) 4-Chlorotoluene	11.147	91	25724	0.38	ug/L	97
92) tert-Butylbenzene	11.473	119	22446	0.35	ug/L	99
93) 1,2,4-Trimethylbenzene	11.519	105	26171	0.34	ug/L	87
94) sec-Butylbenzene	11.695	105	31057	0.35	ug/L	99
95) 1,3-Dichlorobenzene	11.786	146	16144	0.36	ug/L	98
96) p-Isopropyltoluene	11.845	119	29334	0.36	ug/L	87
97) 1,4-Dichlorobenzene	11.876	146	16505	0.37	ug/L #	56
98) 1,2,3-Trimethylbenzene	11.940	105	27381	0.34	ug/L #	100
99) n-Butylbenzene	12.257	91	26251	0.35	ug/L	96
100) 1,2-Dichlorobenzene	12.248	146	15692	0.38	ug/L	96
101) 1,2-Dibromo-3-chloropr...	13.017	75	2016	0.34	ug/L	90
102) 1,3,5-Trichlorobenzene	13.248	180	13002	0.36	ug/L	98
103) 1,2,4-Trichlorobenzene	13.864	180	12082	0.35	ug/L	97
104) Hexachlorobutadiene	14.045	225	5040	0.29	ug/L	95
105) Naphthalene	14.100	128	33505	0.40	ug/L	99
106) 1,2,3-Trichlorobenzene	14.344	180	11420	0.36	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\1\data\G030124\
Data File : G24V06104.D
Acq On : 1 Mar 2024 8:38 am
Operator :
Sample : 8260 STD 0.4PPB Inst : GCMSVOA7
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 01 09:23:30 2024
Quant Method : X:\1\methods\GS071223-TAEE-2ND-IS.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Thu Feb 22 14:13:34 2024
Response via : Initial Calibration

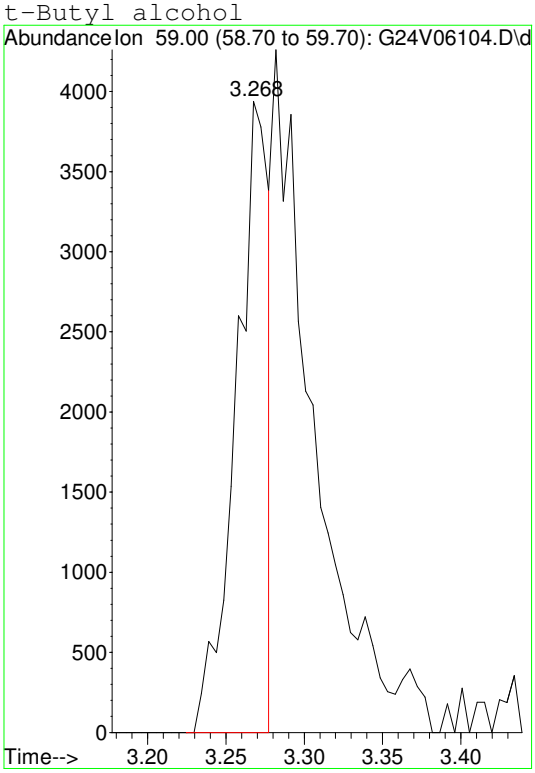




Data Path : X:\1\data\G030124\
Data File : G24V06104.D
Acq On : 1 Mar 2024 8:38 am
Operator :
Sample : 8260 STD 0.4PPB
Misc :

Quant Time : Fri Mar 01 09:23:30 2024
Quant Method : X:\1\methods\GS071223-TAEE-2ND-IS.M
QLast Update : Thu Feb 22 14:13:34 2024

Original Integration
t-Butyl alcohol



Original Int. Results

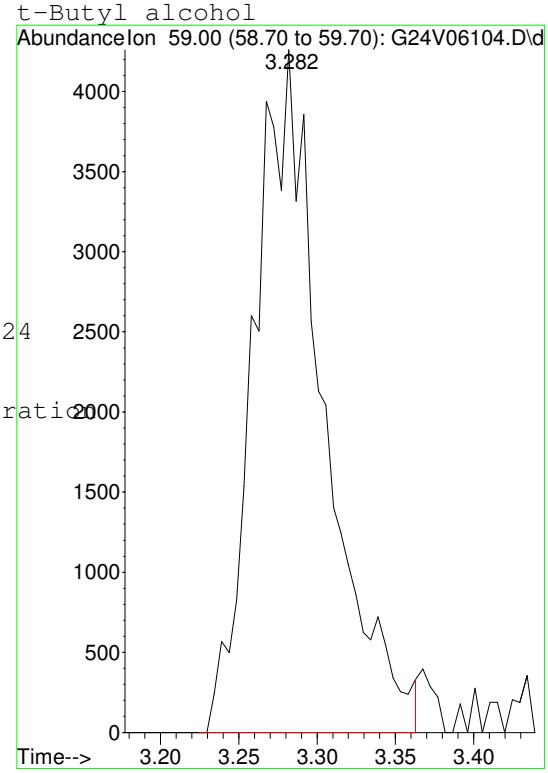
RT : 3.27
Area : 5676
Amount: 2.42664

Manual Int. Results

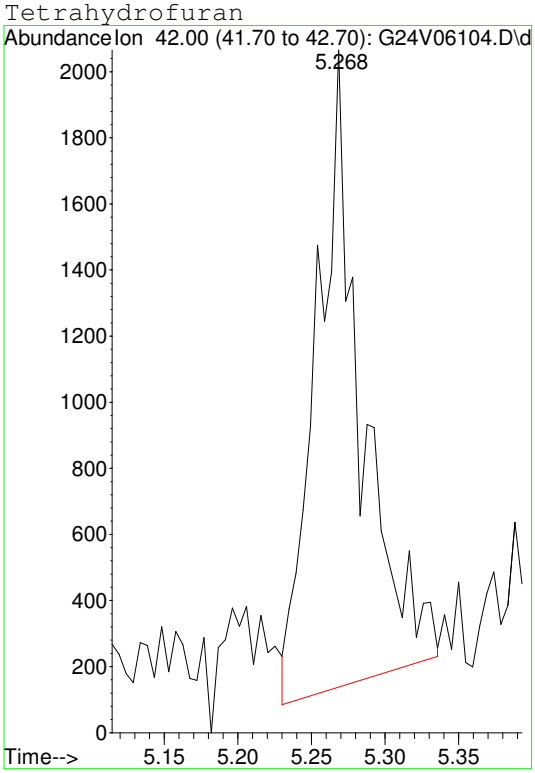
Fri Mar 01 09:21:35 2024

MIuser: MFF
Reason: Incorret Integration
RT : 3.28
Area : 13205
Amount: 5.64549

Manual Integration
t-Butyl alcohol



Original Integration
Tetrahydrofuran



Original Int. Results

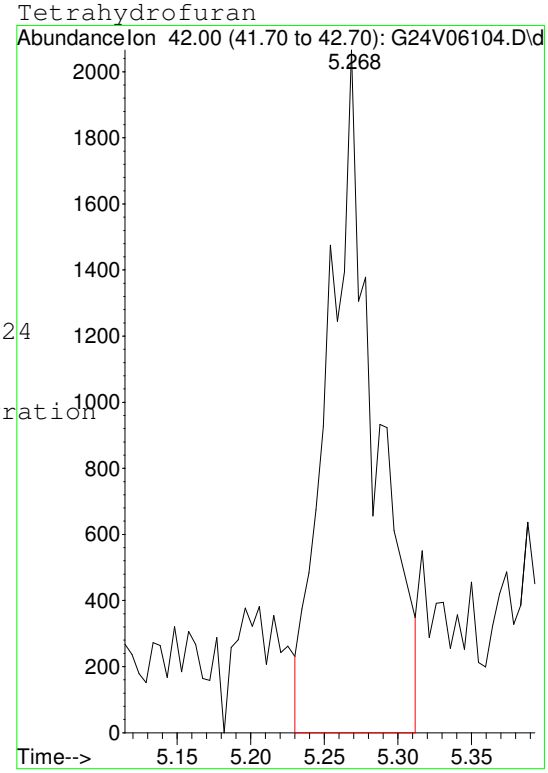
RT : 5.27
Area : 4286
Amount: 0.809583

Manual Int. Results

Fri Mar 01 09:22:06 2024

MIuser: MFF
Reason: Incorret Integration
RT : 5.27
Area : 4842
Amount: 0.914606

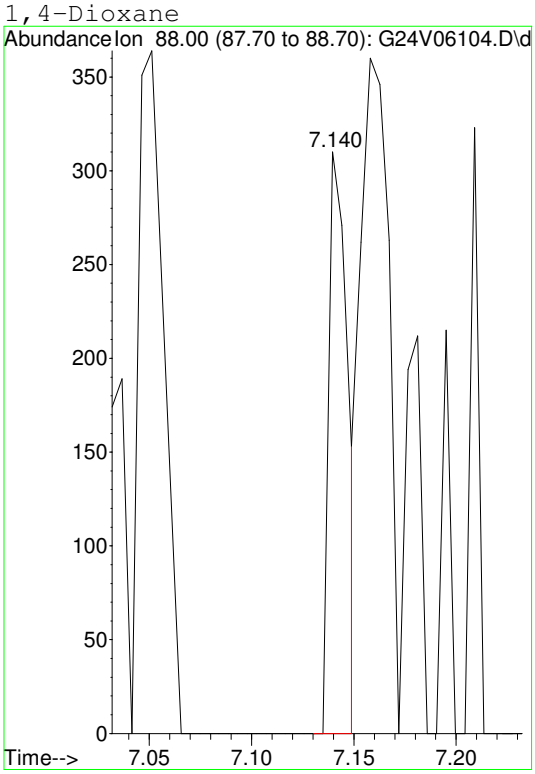
Manual Integration
Tetrahydrofuran



Data Path : X:\1\data\G030124\
Data File : G24V06104.D
Acq On : 1 Mar 2024 8:38 am
Operator :
Sample : 8260 STD 0.4PPB
Misc :

Quant Time : Fri Mar 01 09:23:30 2024
Quant Method : X:\1\methods\GS071223-TAEE-2ND-IS.M
QLast Update : Thu Feb 22 14:13:34 2024

Original Integration
1,4-Dioxane



Original Int. Results

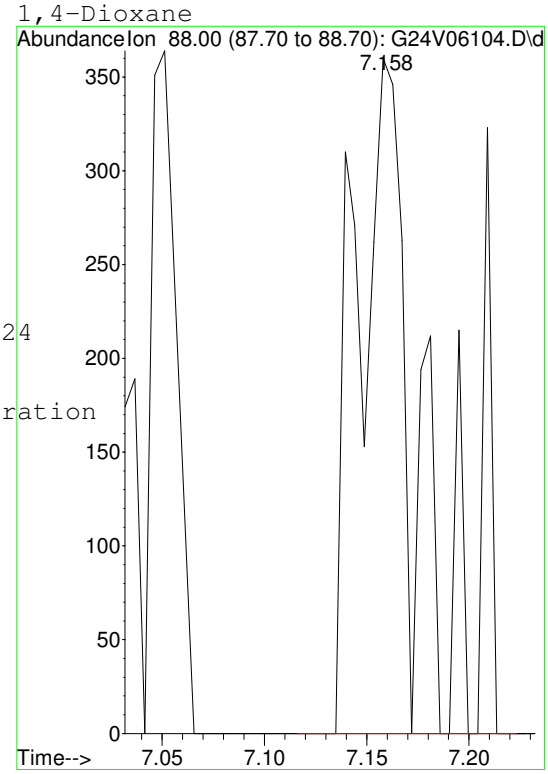
RT : 7.14
Area : 204
Amount: 0.897038

Manual Int. Results

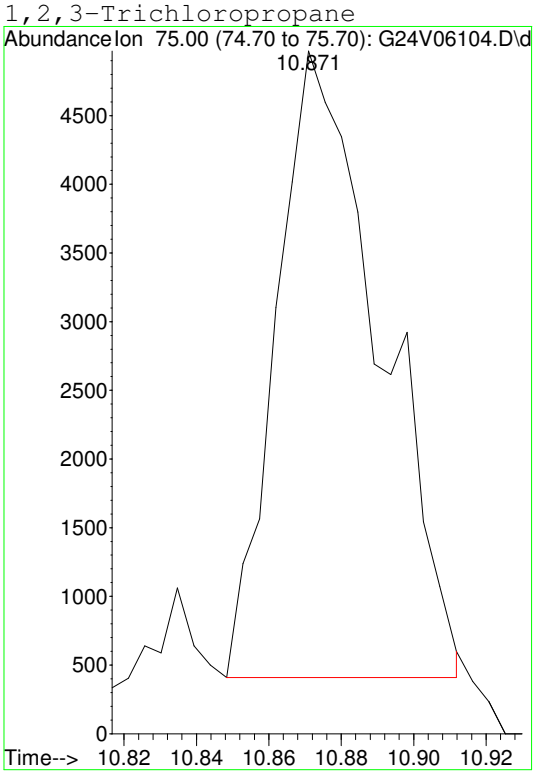
Fri Mar 01 09:22:43 2024

MIuser: MFF
Reason: Incorret Integration
RT : 7.16
Area : 807
Amount: 3.54858

Manual Integration
1,4-Dioxane



Original Integration
1,2,3-Trichloropropane



Original Int. Results

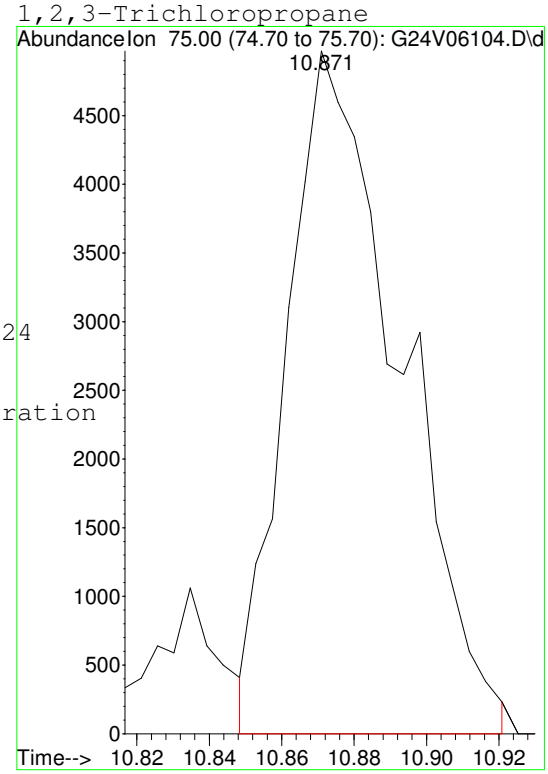
RT : 10.87
Area : 9068
Amount: 0.347183

Manual Int. Results

Fri Mar 01 09:23:29 2024

MIuser: MFF
Reason: Incorret Integration
RT : 10.87
Area : 10787
Amount: 0.412997

Manual Integration
1,2,3-Trichloropropane



Data Path : X:\1\data\G030124\
Data File : G24V06105.D
Acq On : 1 Mar 2024 9:03 am
Operator :
Sample : 8260 STD 0.5PPB Inst : GCMSVOA7
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 01 09:27:04 2024
Quant Method : X:\1\methods\GS071223-TAEE-2ND-IS.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Thu Feb 22 14:13:34 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.574	168	1419131	30.00	ug/L		0.00
49) 1,4-Difluorobenzene - ...	6.420	114	2636480	30.00	ug/L		0.00
72) Chlorobenzene-d5 ISTD	9.498	82	976927	30.00	ug/L	#	0.00
91) 1,4-Dichlorobenzene-d4...	11.854	152	1308538	30.00	ug/L		0.00
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4	5.866	65	600886	23.05	ug/L		0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 92.20%				
50) Toluene SS	8.021	98	2690041	26.17	ug/L		0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 104.68%				
73) 4-Bromofluorobenzene SS	10.690	95	973647	23.60	ug/L		0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 94.40%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.237	85	9231	0.61	ug/L		98
4) Difluorochloromethane	1.257	51	14070	0.40	ug/L		95
5) Chloromethane	1.409	50	23988	1.21	ug/L		91
6) Vinyl chloride	1.475	62	15910	0.89	ug/L		99
7) Bromomethane	1.733	94	11023	2.16	ug/L		98
8) Chloroethane	1.825	64	9600	1.38	ug/L		85
10) Fluorodichloromethane	2.002	67	27658	1.24	ug/L		97
11) Trichlorofluoromethane	2.058	101	20417	0.97	ug/L		97
12) Diethyl ether	2.337	59	13636	0.94	ug/L	#	79
13) Acrolein	2.428	56	567	0.13	ug/L	#	1
14) Acetone	2.605	43	58102	8.29	ug/L		88
15) 1,1-Dichloroethene	2.545	61	20185	0.77	ug/L		96
16) 1,1,2-TRICL-1,2,2-TRIF...	2.560	101	13191	Below Cal			85
17) Iodomethane	2.686	142	135106	5.88	ug/L		99
19) Methyl acetate	2.977	43	11962	0.77	ug/L		77
20) t-Butyl alcohol	3.268	59	16901	6.81	ug/L		77
21) Acrylonitrile	3.382	53	5189m	0.83	ug/L		
22) Methylene chloride	3.072	49	14565	0.76	ug/L		82
23) Carbon disulfide	2.767	76	135641	4.49	ug/L	#	76
24) Methyl tert-butyl ethe...	3.468	73	23941	0.57	ug/L		88
25) TRANS 1,2-DICHLOROETHENE	3.420	61	11512	0.53	ug/L		93
26) 1,1-Dichloroethane	4.005	63	15461	0.56	ug/L		98
28) Vinyl acetate	4.134	43	237165	7.40	ug/L		89
30) Di isopropyl ether	4.196	45	35089	0.74	ug/L		89
31) 2-Butanone (MEK)	4.899	43	58243	7.39	ug/L		85
33) t-Butyl ethyl ether	4.719	59	28608	0.55	ug/L		96
34) cis-1,2-Dichloroethene	4.834	61	14503	0.58	ug/L		87
35) 2,2-Dichloropropane	4.834	77	12550	0.56	ug/L	#	100
36) Ethyl acetate	5.023	43	11778	0.80	ug/L		100
37) Bromochloromethane	5.138	49	9550	0.75	ug/L	#	61
38) Tetrahydrofuran	5.254	42	5266	0.94	ug/L		71
39) Chloroform	5.268	83	16980	0.70	ug/L	#	50
42) 1,1,1-Trichloroethane	5.493	97	13170	0.60	ug/L		95
43) Cyclohexane	5.574	56	39696	0.88	ug/L	#	1
44) Carbon tetrachloride	5.694	117	7975	1.15	ug/L	#	1
45) 1,1-Dichloropropene	5.694	75	9920	0.65	ug/L		97
46) Benzene	5.942	78	36410	0.63	ug/L		90
47) tert-Amyl Alcohol (TAA)	6.039	59	11852	14.93	ug/L	#	57
48) T-AMYL METHYL ETHER	6.141	73	25147	0.57	ug/L		85
51) 1,2-Dichloroethane	5.957	62	12009	0.48	ug/L		80
53) Trichloroethene	6.701	95	10100	0.55	ug/L		93
54) Methylcyclohexane	6.925	83	15099	0.49	ug/L	#	75
55) 1,2-Dichloropropane	6.935	63	9841	0.49	ug/L	#	59

Data Path : X:\1\data\G030124\
Data File : G24V06105.D
Acq On : 1 Mar 2024 9:03 am
Operator :
Sample : 8260 STD 0.5PPB Inst : GCMSVOA7
Misc :
ALS Vial : 5 Sample Multiplier: 1

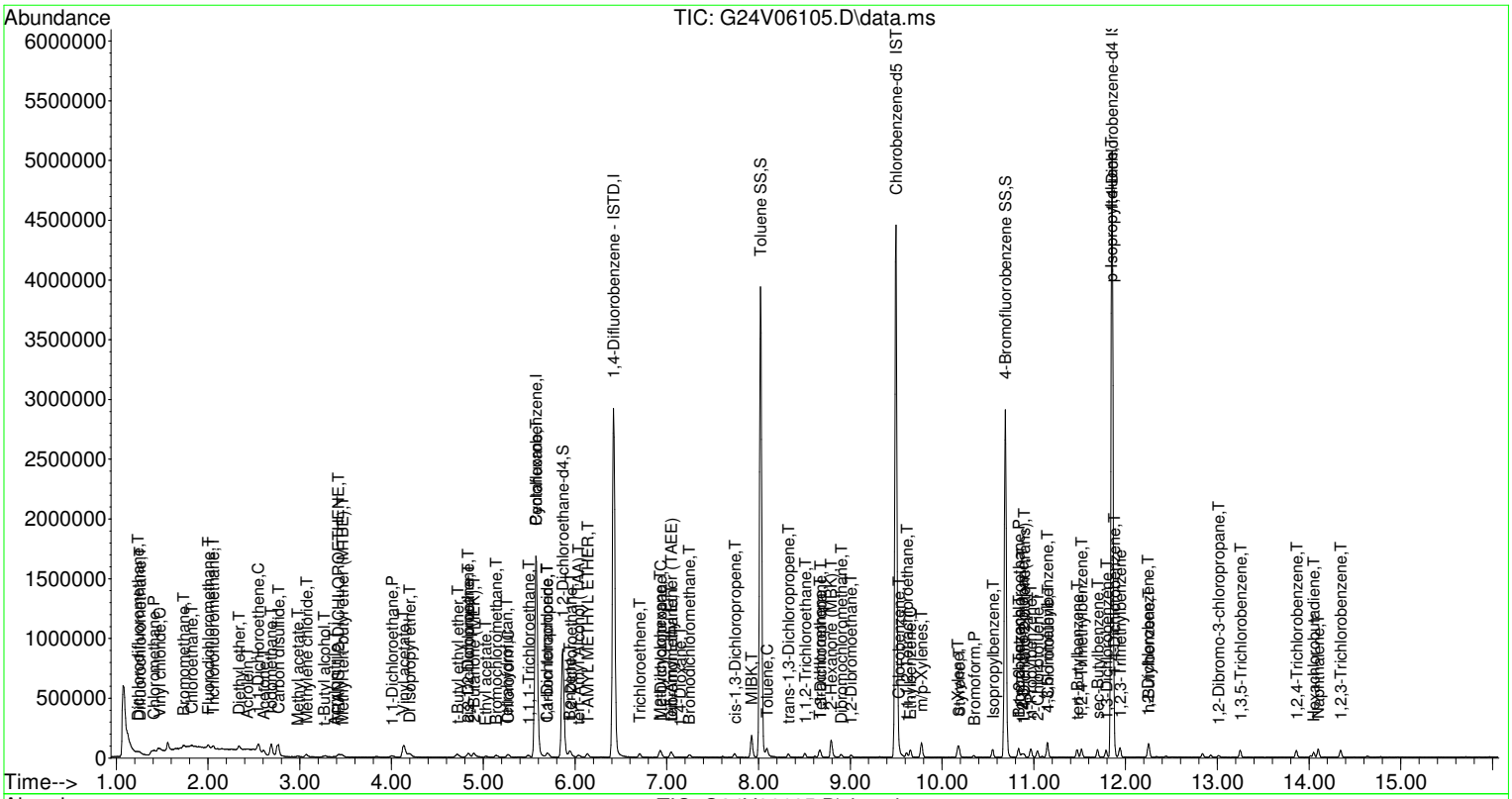
Quant Time: Mar 01 09:27:04 2024
Quant Method : X:\1\methods\GS071223-TAEE-2ND-IS.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Thu Feb 22 14:13:34 2024
Response via : Initial Calibration

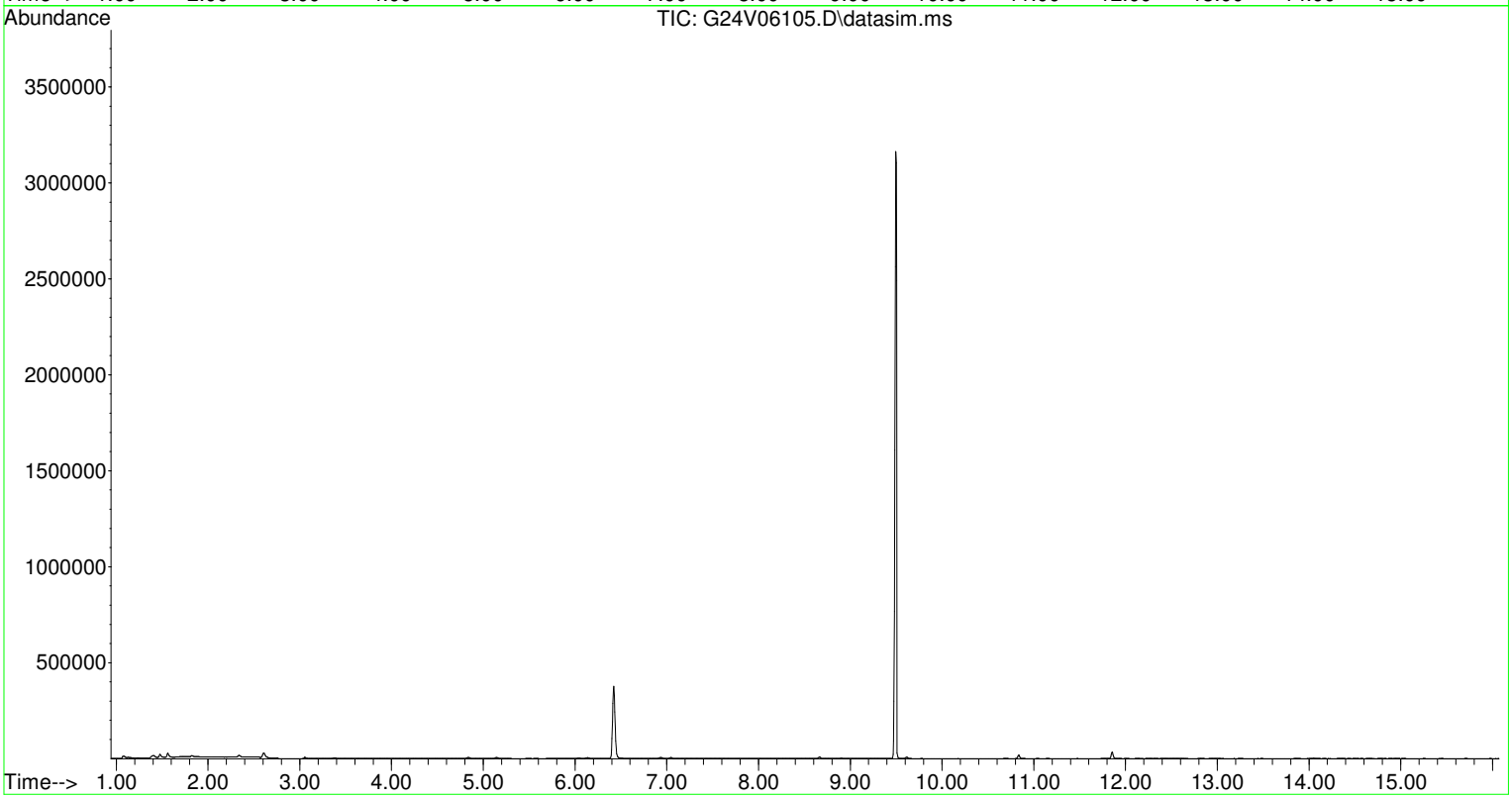
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
56) tert-Amyl Ethyl Ether ...	7.046	59	18839	1.05	ug/L	#	100
57) Dibromomethane	7.051	93	5452	0.56	ug/L		93
58) 1,4-Dioxane	7.149	88	1554m	6.72	ug/L		
59) Bromodichloromethane	7.246	83	12008	0.48	ug/L		99
61) MIBK	7.924	43	127743	6.78	ug/L		87
62) cis-1,3-Dichloropropene	7.746	75	16498	0.51	ug/L		95
63) Toluene	8.093	91	41915	0.58	ug/L		97
64) trans-1,3-Dichloropropene	8.325	75	14118	0.50	ug/L		94
66) 1,1,2-Trichloroethane	8.509	97	10496	0.63	ug/L		89
67) 2-Hexanone (MBK)	8.792	43	102299	7.13	ug/L		82
68) Tetrachloroethene	8.668	166	9511	0.53	ug/L		95
69) 1,3-Dichloropropane	8.673	76	16698	0.60	ug/L		98
70) Dibromochloromethane	8.901	129	11124	0.54	ug/L		94
71) 1,2-Dibromoethane	9.006	107	10821	0.60	ug/L		99
74) Chlorobenzene	9.526	112	30729	0.62	ug/L	#	51
75) 1,1,1,2-Tetrachloroethane	9.617	131	9551	0.50	ug/L		94
76) Ethylbenzene	9.653	91	45814	0.57	ug/L		99
77) m/p-Xylenes	9.775	91	70705	1.14	ug/L		99
78) o-Xylene	10.174	91	36031	0.54	ug/L		96
79) Styrene	10.187	104	31445	0.56	ug/L		97
80) Bromoform	10.350	173	6904	0.48	ug/L		94
81) Isopropylbenzene	10.554	105	43351	0.53	ug/L		97
83) 1,1,2,2-Tetrachloroethane	10.835	83	14568	0.63	ug/L		97
84) 1,4-Dichloro-2-butene(...	10.894	53	4841	0.52	ug/L		87
85) Bromobenzene	10.835	77	19035	0.56	ug/L		96
86) 1,2,3-Trichloropropane	10.876	75	13683	0.52	ug/L		92
87) n-Propylbenzene	10.966	91	48553	0.52	ug/L		97
88) 2-Chlorotoluene	11.043	91	29745	0.53	ug/L		92
89) 1,3,5-Trimethylbenzene	11.147	105	35084	0.50	ug/L		99
90) 4-Chlorotoluene	11.152	91	37003	0.54	ug/L		97
92) tert-Butylbenzene	11.473	119	31768	0.49	ug/L		98
93) 1,2,4-Trimethylbenzene	11.519	105	38397	0.50	ug/L		85
94) sec-Butylbenzene	11.695	105	44790	0.50	ug/L		99
95) 1,3-Dichlorobenzene	11.790	146	23892	0.54	ug/L		99
96) p-Isopropyltoluene	11.845	119	40804	0.50	ug/L		89
97) 1,4-Dichlorobenzene	11.876	146	24363	0.55	ug/L	#	64
98) 1,2,3-Trimethylbenzene	11.940	105	38534	0.48	ug/L	#	100
99) n-Butylbenzene	12.252	91	38205	0.50	ug/L		97
100) 1,2-Dichlorobenzene	12.243	146	22758	0.55	ug/L		96
101) 1,2-Dibromo-3-chloropr...	13.013	75	2640	0.44	ug/L	#	87
102) 1,3,5-Trichlorobenzene	13.253	180	17740	0.49	ug/L		100
103) 1,2,4-Trichlorobenzene	13.864	180	18084	0.53	ug/L		99
104) Hexachlorobutadiene	14.050	225	7815	0.44	ug/L		95
105) Naphthalene	14.100	128	52443	0.62	ug/L		99
106) 1,2,3-Trichlorobenzene	14.344	180	17174	0.54	ug/L		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\1\data\G030124\
Data File : G24V06105.D
Acq On : 1 Mar 2024 9:03 am
Operator :
Sample : 8260 STD 0.5PPB Inst : GCMSVOA7
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 01 09:27:04 2024
Quant Method : X:\1\methods\GS071223-TAEE-2ND-IS.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Thu Feb 22 14:13:34 2024
Response via : Initial Calibration

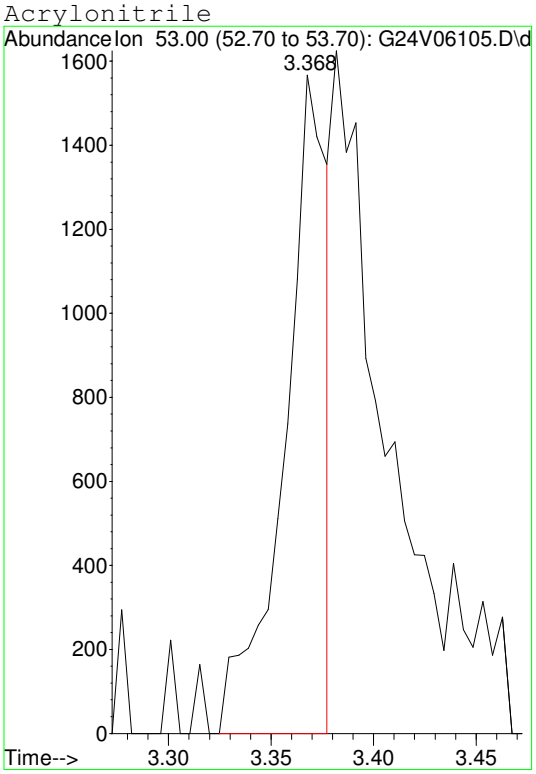




Data Path : X:\1\data\G030124\
Data File : G24V06105.D
Acq On : 1 Mar 2024 9:03 am
Operator :
Sample : 8260 STD 0.5PPB
Misc :

Quant Time : Fri Mar 01 09:27:04 2024
Quant Method : X:\1\methods\GS071223-TAEE-2ND-IS.M
QLast Update : Thu Feb 22 14:13:34 2024

Original Integration
Acrylonitrile



Original Int. Results

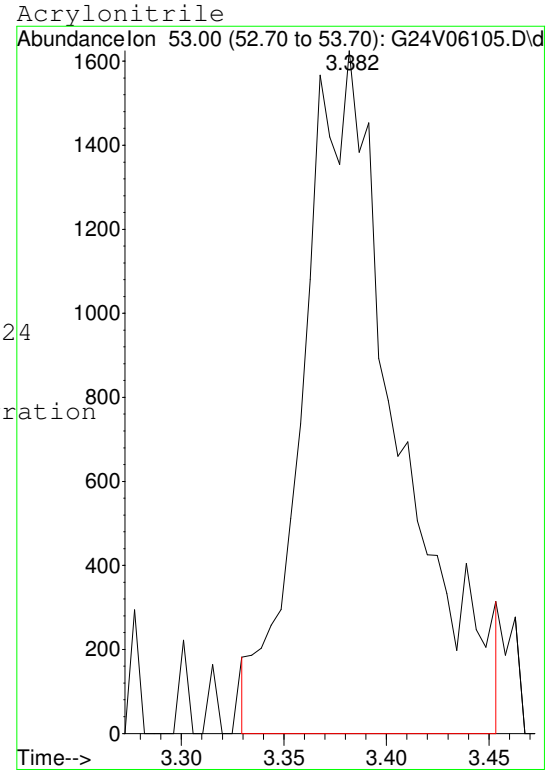
RT : 3.37
Area : 2226
Amount: 0.356031

Manual Int. Results

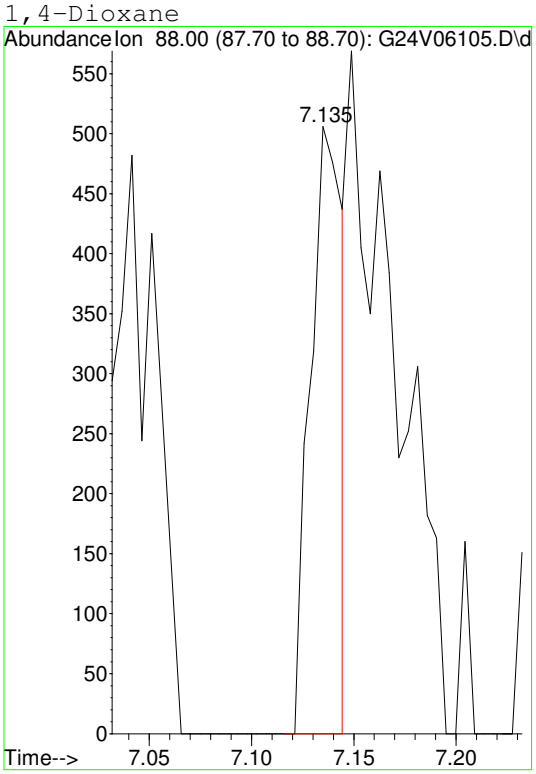
Fri Mar 01 09:25:07 2024

MIuser: MFF
Reason: Incorret Integration
RT : 3.38
Area : 5189
Amount: 0.829939

Manual Integration
Acrylonitrile



Original Integration
1,4-Dioxane



Original Int. Results

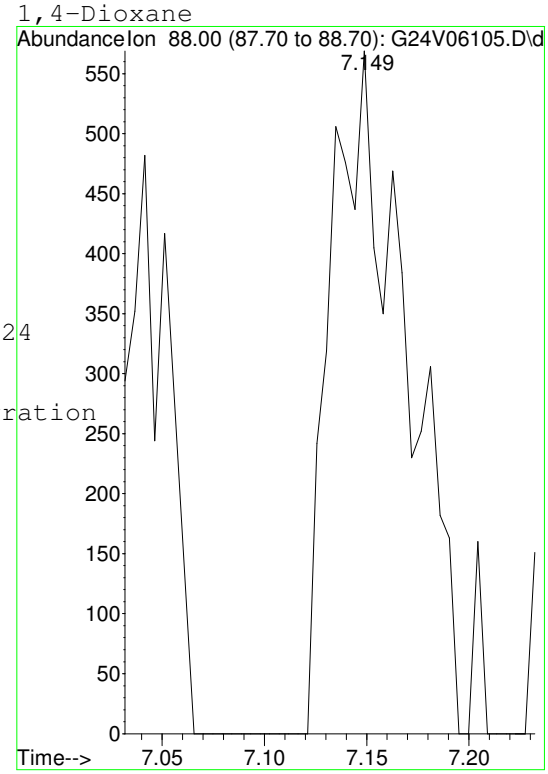
RT : 7.13
Area : 549
Amount: 2.37317

Manual Int. Results

Fri Mar 01 09:27:04 2024

MIuser: MFF
Reason: Incorret Integration
RT : 7.15
Area : 1554
Amount: 6.71749

Manual Integration
1,4-Dioxane



Data Path : X:\1\data\G030124\
Data File : G24V06106.D
Acq On : 1 Mar 2024 9:30 am
Operator :
Sample : 8260 STD 1.0PPB Inst : GCMSVOA7
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 01 10:09:36 2024
Quant Method : X:\1\methods\GS071223-TAEE-2ND-IS.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Thu Feb 22 14:13:34 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.574	168	1475118	30.00	ug/L		0.00
49) 1,4-Difluorobenzene - ...	6.420	114	2654990	30.00	ug/L		0.00
72) Chlorobenzene-d5 ISTD	9.498	82	994962	30.00	ug/L	#	0.00
91) 1,4-Dichlorobenzene-d4...	11.854	152	1317798	30.00	ug/L		0.00
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4	5.866	65	600790	22.17	ug/L		0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 88.68%				
50) Toluene SS	8.021	98	2587317	24.99	ug/L		0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 99.96%				
73) 4-Bromofluorobenzene SS	10.690	95	974097	23.18	ug/L		0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 92.72%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.237	85	15509	0.98	ug/L		93
4) Difluorochloromethane	1.257	51	26196	0.81	ug/L		97
5) Chloromethane	1.399	50	40381	1.95	ug/L		99
6) Vinyl chloride	1.470	62	31486	1.69	ug/L		88
7) Bromomethane	1.733	94	16810	3.17	ug/L		88
8) Chloroethane	1.825	64	16902	2.34	ug/L		87
10) Fluorodichloromethane	2.002	67	49410	2.13	ug/L		99
11) Trichlorofluoromethane	2.058	101	36944	1.69	ug/L		97
12) Diethyl ether	2.337	59	26315	1.75	ug/L		93
13) Acrolein	2.428	56	573	0.12	ug/L	#	1
14) Acetone	2.605	43	92376	12.67	ug/L		88
15) 1,1-Dichloroethene	2.545	61	36361	1.33	ug/L		97
16) 1,1,2-TRICL-1,2,2-TRIF...	2.560	101	21613	Below Cal			93
17) Iodomethane	2.686	142	244766	10.24	ug/L		100
19) Methyl acetate	2.987	43	19237	1.18	ug/L		88
20) t-Butyl alcohol	3.272	59	26302	10.20	ug/L	#	56
21) Acrylonitrile	3.382	53	7735	1.19	ug/L		91
22) Methylene chloride	3.072	49	23566	1.19	ug/L		85
23) Carbon disulfide	2.767	76	233347	7.43	ug/L	#	86
24) Methyl tert-butyl ethe...	3.453	73	43866	1.00	ug/L		95
25) TRANS 1,2-DICHLOROETHENE	3.425	61	22080	0.98	ug/L		98
26) 1,1-Dichloroethane	4.001	63	28287	0.98	ug/L		98
28) Vinyl acetate	4.134	43	431970	12.97	ug/L		89
30) Di isopropyl ether	4.196	45	63828	1.30	ug/L		88
31) 2-Butanone (MEK)	4.894	43	93867	11.46	ug/L		89
33) t-Butyl ethyl ether	4.714	59	49613	0.92	ug/L		95
34) cis-1,2-Dichloroethene	4.839	61	25493	0.98	ug/L		88
35) 2,2-Dichloropropane	4.844	77	21984	0.94	ug/L	#	100
36) Ethyl acetate	5.028	43	18349	1.20	ug/L		100
37) Bromochloromethane	5.138	49	17027	1.29	ug/L		83
38) Tetrahydrofuran	5.249	42	8292m	1.42	ug/L		
39) Chloroform	5.273	83	29815	1.19	ug/L	#	47
42) 1,1,1-Trichloroethane	5.488	97	23865	1.04	ug/L		97
43) Cyclohexane	5.574	56	53019	1.23	ug/L	#	10
44) Carbon tetrachloride	5.699	117	13539	1.41	ug/L	#	1
45) 1,1-Dichloropropene	5.699	75	17866	1.13	ug/L		95
46) Benzene	5.942	78	64646	1.08	ug/L		91
47) tert-Amyl Alcohol (TAA)	6.039	59	18569	22.51	ug/L	#	56
48) T-AMYL METHYL ETHER	6.141	73	41762	0.91	ug/L		71
51) 1,2-Dichloroethane	5.957	62	20557	0.81	ug/L		78
53) Trichloroethene	6.711	95	17940	0.97	ug/L		92
54) Methylcyclohexane	6.920	83	30153	0.97	ug/L	#	84
55) 1,2-Dichloropropane	6.939	63	18790	0.93	ug/L	#	62

Data Path : X:\1\data\G030124\
Data File : G24V06106.D
Acq On : 1 Mar 2024 9:30 am
Operator :
Sample : 8260 STD 1.0PPB Inst : GCMSVOA7
Misc :
ALS Vial : 6 Sample Multiplier: 1

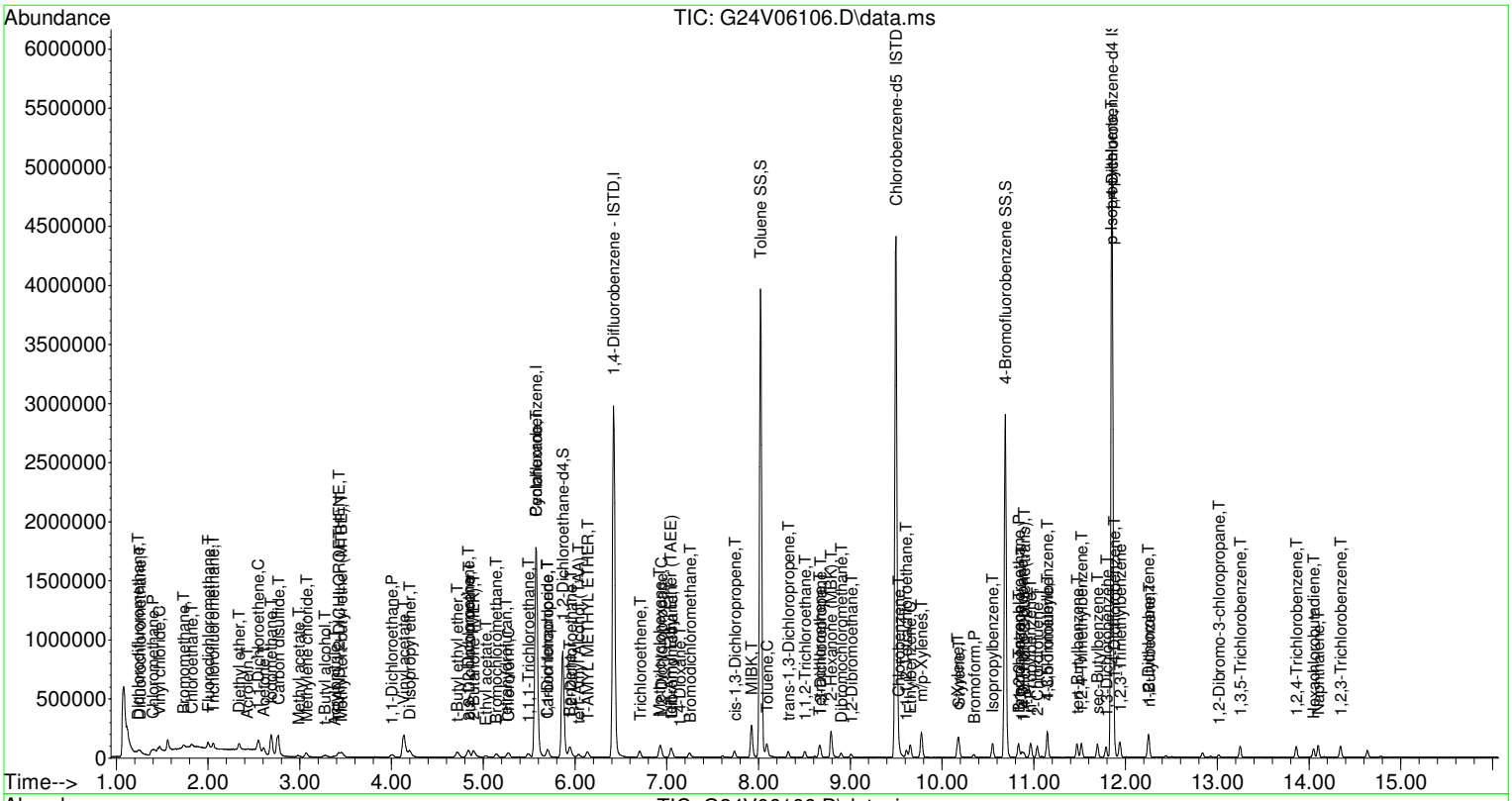
Quant Time: Mar 01 10:09:36 2024
Quant Method : X:\1\methods\GS071223-TAEE-2ND-IS.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Thu Feb 22 14:13:34 2024
Response via : Initial Calibration

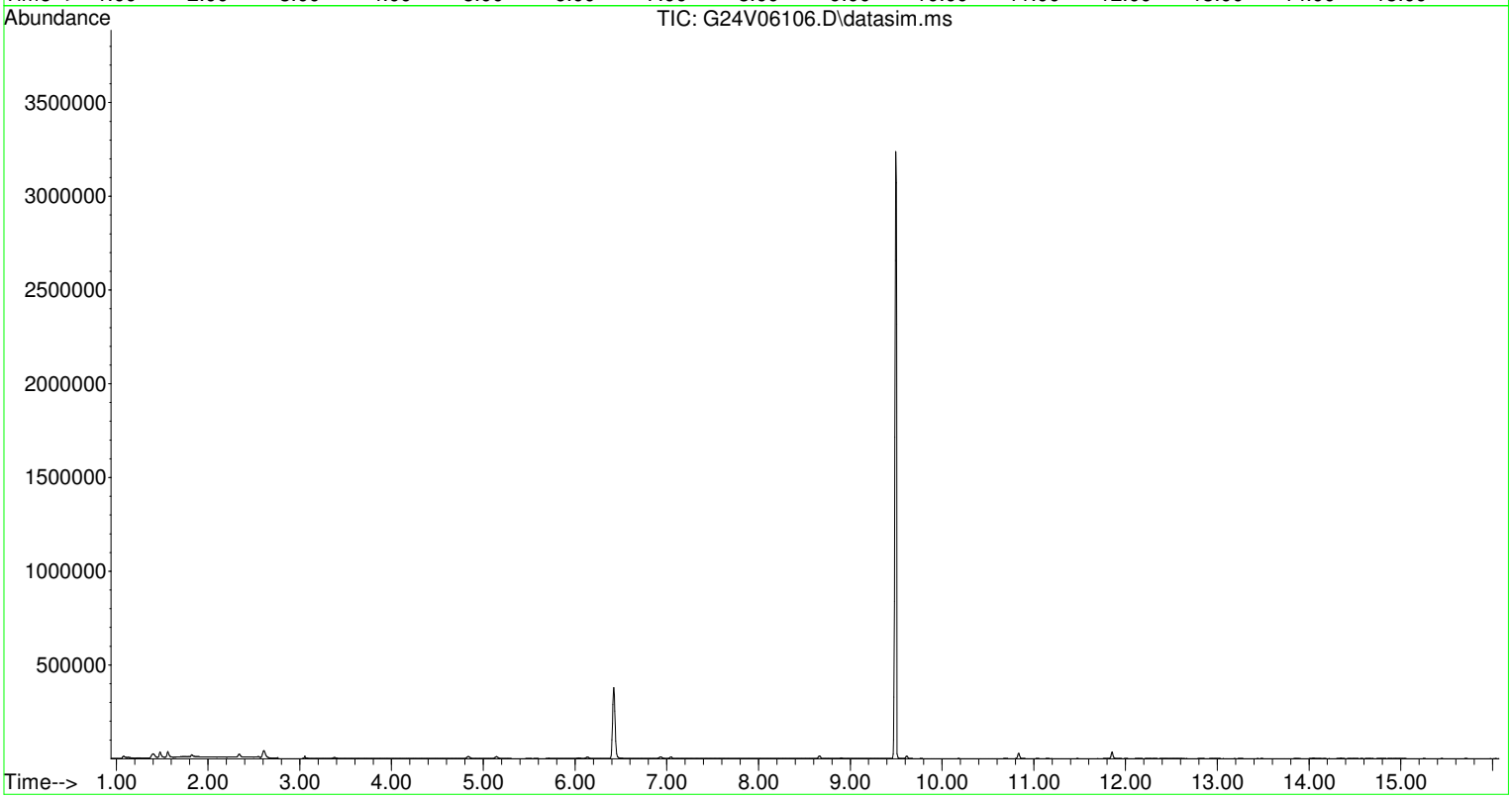
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
56) tert-Amyl Ethyl Ether ...	7.042	59	31953	1.77	ug/L	#	100
57) Dibromomethane	7.051	93	8417	0.87	ug/L		96
58) 1,4-Dioxane	7.144	88	2314m	9.93	ug/L		
59) Bromodichloromethane	7.255	83	20684	0.82	ug/L		99
61) MIBK	7.924	43	200881	10.59	ug/L		86
62) cis-1,3-Dichloropropene	7.741	75	28468	0.87	ug/L		98
63) Toluene	8.093	91	70959	0.97	ug/L		98
64) trans-1,3-Dichloropropene	8.325	75	23999	0.85	ug/L		95
66) 1,1,2-Trichloroethane	8.504	97	15466	0.93	ug/L		98
67) 2-Hexanone (MBK)	8.792	43	157507	10.90	ug/L		81
68) Tetrachloroethene	8.663	166	17996	0.99	ug/L		99
69) 1,3-Dichloropropane	8.673	76	27422	0.97	ug/L		92
70) Dibromochloromethane	8.901	129	17444	0.85	ug/L		89
71) 1,2-Dibromoethane	9.011	107	17275	0.96	ug/L		97
74) Chlorobenzene	9.526	112	49711	0.98	ug/L	#	79
75) 1,1,1,2-Tetrachloroethane	9.608	131	15608	0.80	ug/L		96
76) Ethylbenzene	9.653	91	78384	0.96	ug/L		100
77) m/p-Xylenes	9.775	91	117860	1.86	ug/L		94
78) o-Xylene	10.169	91	59783	0.88	ug/L		95
79) Styrene	10.183	104	51219	0.89	ug/L		97
80) Bromoform	10.350	173	11254	0.76	ug/L		95
81) Isopropylbenzene	10.550	105	76311	0.91	ug/L		97
83) 1,1,2,2-Tetrachloroethane	10.835	83	21547	0.91	ug/L		96
84) 1,4-Dichloro-2-butene(...	10.894	53	6454	0.68	ug/L		83
85) Bromobenzene	10.835	77	31570	0.91	ug/L		92
86) 1,2,3-Trichloropropane	10.871	75	24716m	0.91	ug/L		
87) n-Propylbenzene	10.962	91	88990m	0.93	ug/L		
88) 2-Chlorotoluene	11.039	91	49838	0.87	ug/L		95
89) 1,3,5-Trimethylbenzene	11.147	105	63325	0.89	ug/L		99
90) 4-Chlorotoluene	11.147	91	61891	0.89	ug/L		98
92) tert-Butylbenzene	11.473	119	55290	0.85	ug/L		100
93) 1,2,4-Trimethylbenzene	11.519	105	65420	0.85	ug/L		89
94) sec-Butylbenzene	11.691	105	78138	0.86	ug/L		99
95) 1,3-Dichlorobenzene	11.790	146	36964	0.82	ug/L		95
96) p-Isopropyltoluene	11.845	119	72003	0.88	ug/L		96
97) 1,4-Dichlorobenzene	11.876	146	40638	0.91	ug/L	#	71
98) 1,2,3-Trimethylbenzene	11.940	105	66294	0.82	ug/L	#	100
99) n-Butylbenzene	12.257	91	65460	0.86	ug/L		100
100) 1,2-Dichlorobenzene	12.248	146	36002	0.86	ug/L		98
101) 1,2-Dibromo-3-chloropr...	13.017	75	3915	0.65	ug/L	#	79
102) 1,3,5-Trichlorobenzene	13.248	180	28219	0.78	ug/L		99
103) 1,2,4-Trichlorobenzene	13.860	180	27617	0.80	ug/L		96
104) Hexachlorobutadiene	14.050	225	12746	0.72	ug/L		98
105) Naphthalene	14.100	128	76786	0.91	ug/L		99
106) 1,2,3-Trichlorobenzene	14.344	180	26059	0.81	ug/L		97

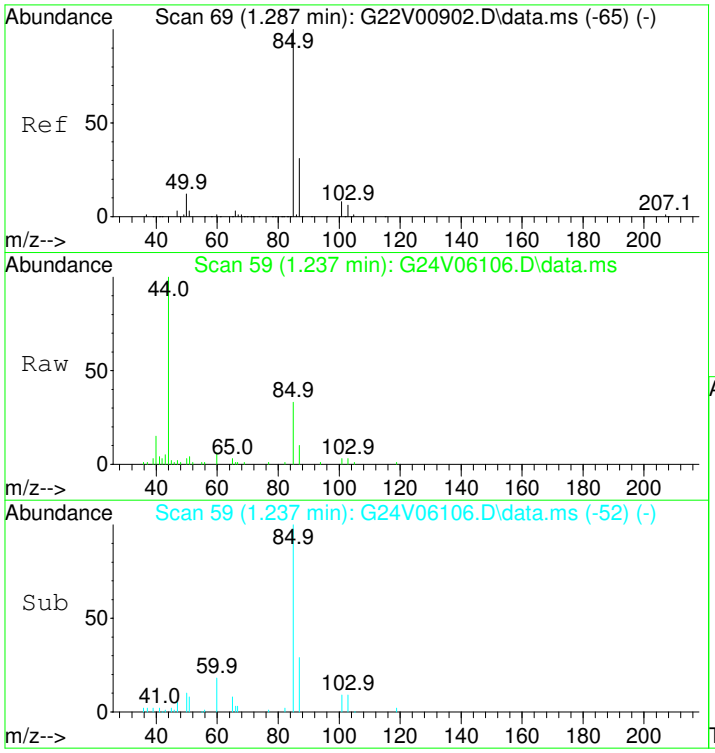
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\1\data\G030124\
Data File : G24V06106.D
Acq On : 1 Mar 2024 9:30 am
Operator :
Sample : 8260 STD 1.0PPB Inst : GCMSVOA7
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 01 10:09:36 2024
Quant Method : X:\1\methods\GS071223-TAEE-2ND-IS.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Thu Feb 22 14:13:34 2024
Response via : Initial Calibration



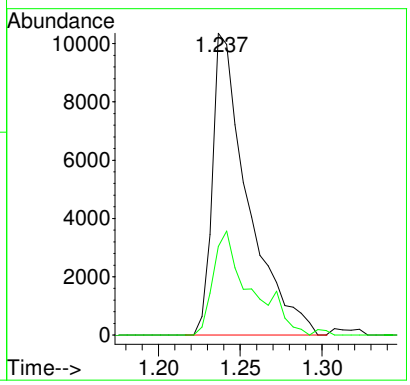


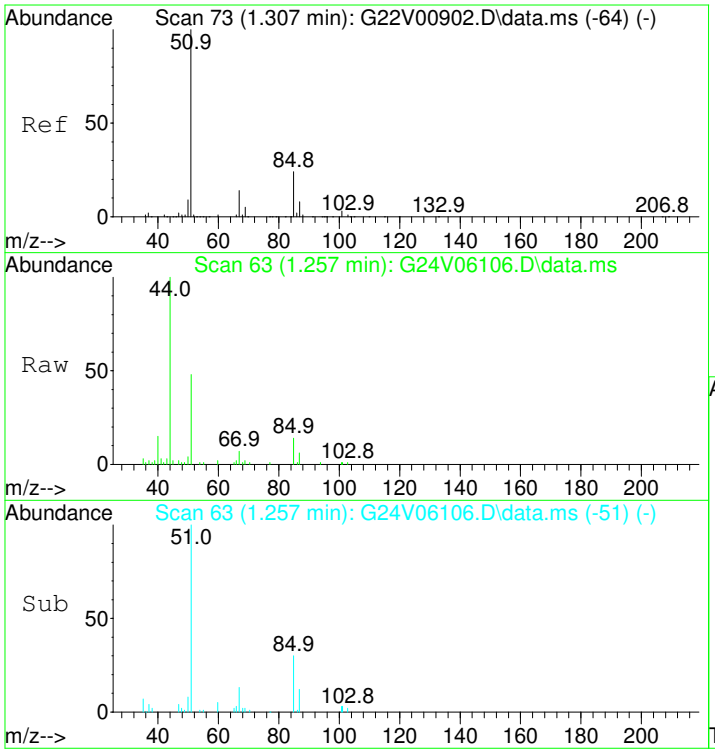


#3
Dichlorodifluoromethane
Concen: 0.98 ug/L
RT: 1.237 min Scan# 59
Delta R.T. -0.005 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 85 Resp: 15509

Ion	Ratio	Lower	Upper
85	100		
87	36.5	12.3	52.3

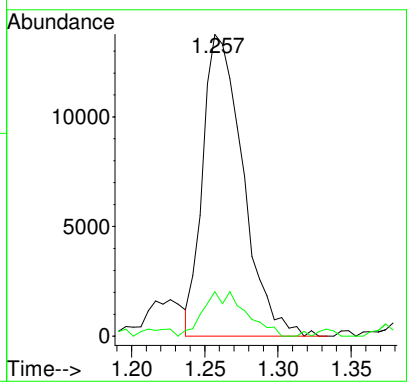


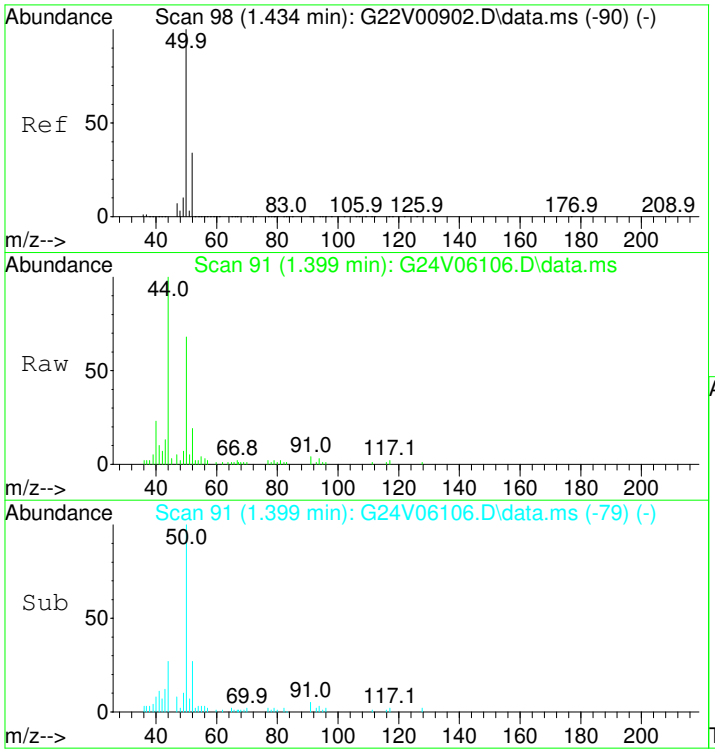


#4
Difluorochloromethane
Concen: 0.81 ug/L
RT: 1.257 min Scan# 63
Delta R.T. -0.000 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 51 Resp: 26196

Ion	Ratio	Lower	Upper
51	100		
67	15.6	0.0	36.9

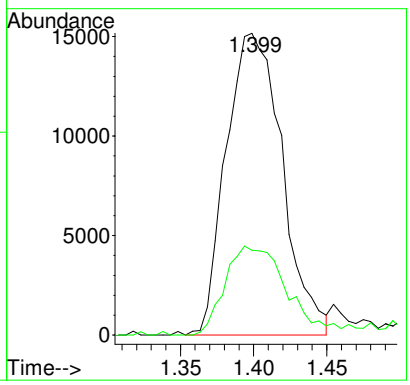


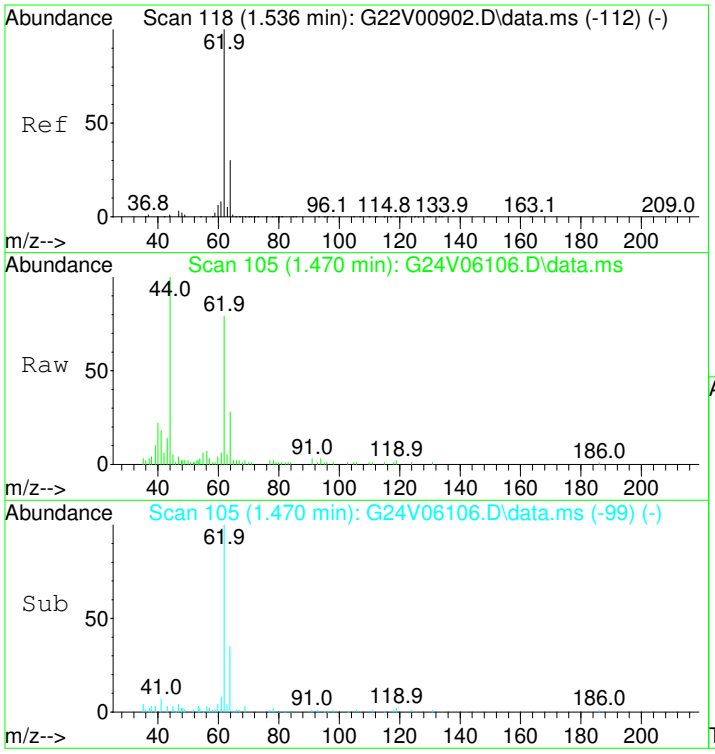


#5
Chloromethane
Concen: 1.95 ug/L
RT: 1.399 min Scan# 91
Delta R.T. 0.005 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 50 Resp: 40381

Ion	Ratio	Lower	Upper
50	100		
52	33.2	12.4	52.4

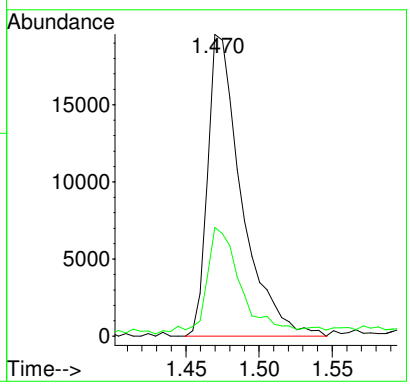


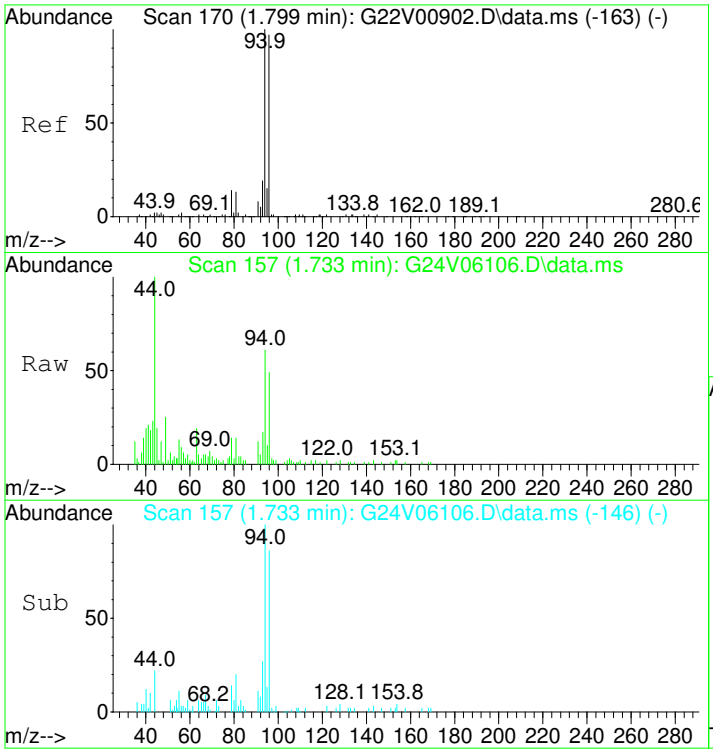


#6
Vinyl chloride
Concen: 1.69 ug/L
RT: 1.470 min Scan# 105
Delta R.T. -0.005 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 62 Resp: 31486

Ion	Ratio	Lower	Upper
62	100		
64	30.4	17.8	57.8

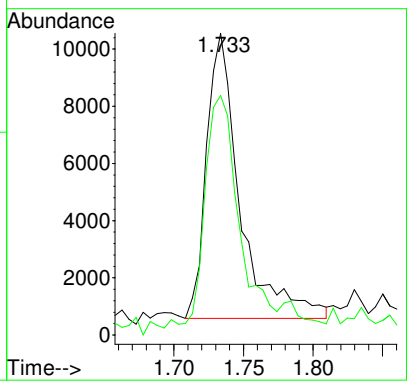


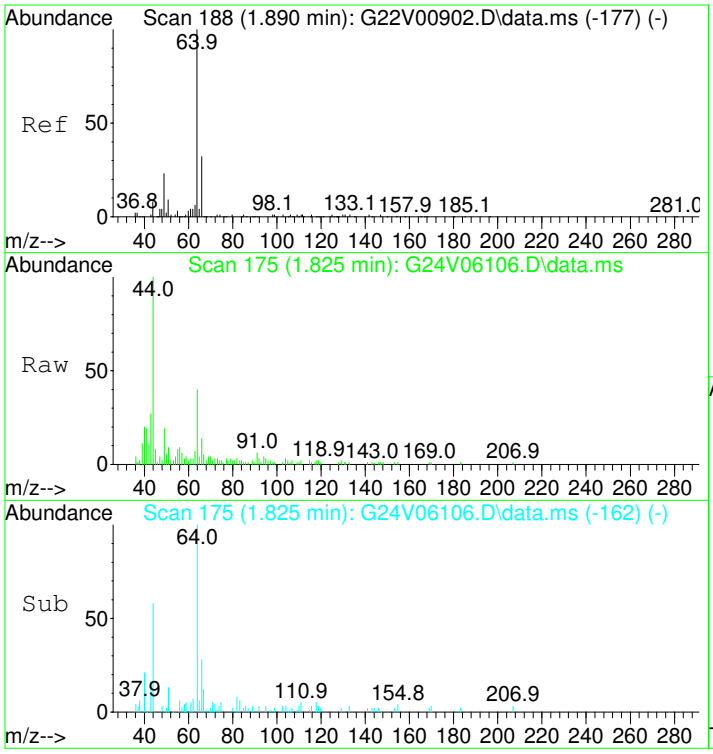


#7
Bromomethane
Concen: 3.17 ug/L
RT: 1.733 min Scan# 157
Delta R.T. 0.005 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 94 Resp: 16810

Ion	Ratio	Lower	Upper
94	100		
96	82.0	73.6	113.6

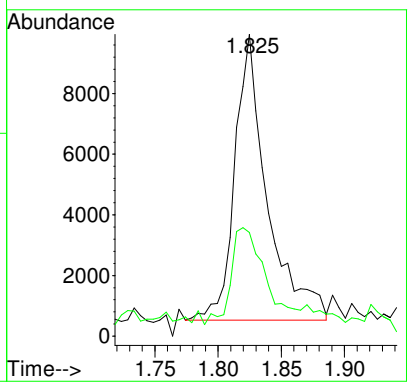


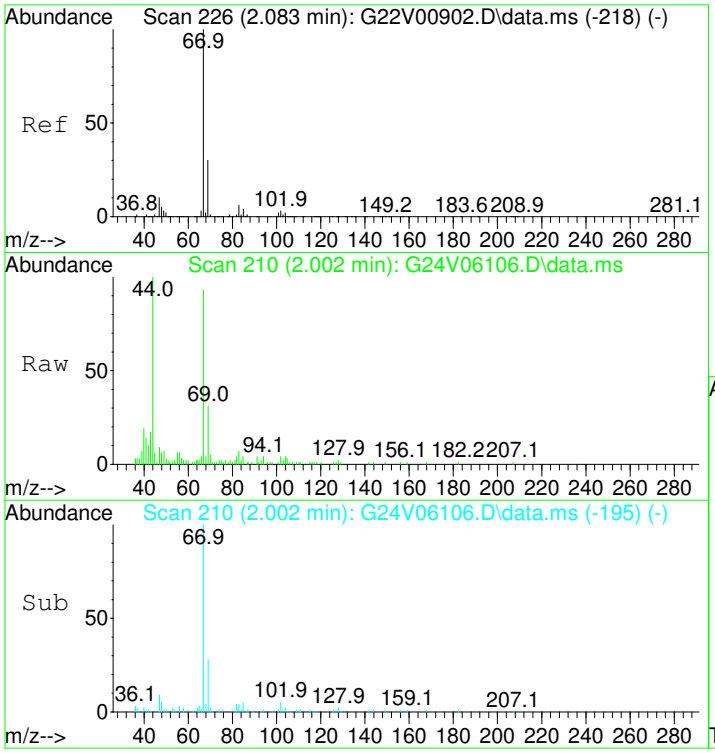


#8
Chloroethane
Concen: 2.34 ug/L
RT: 1.825 min Scan# 175
Delta R.T. 0.005 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 64 Resp: 16902

Ion	Ratio	Lower	Upper
64	100		
66	36.4	9.3	49.3

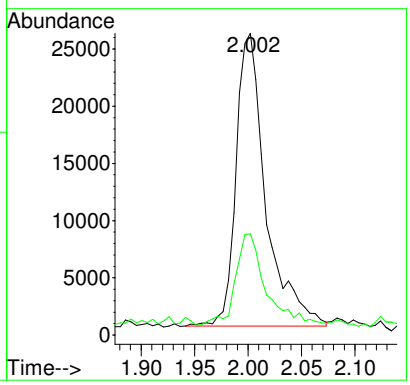


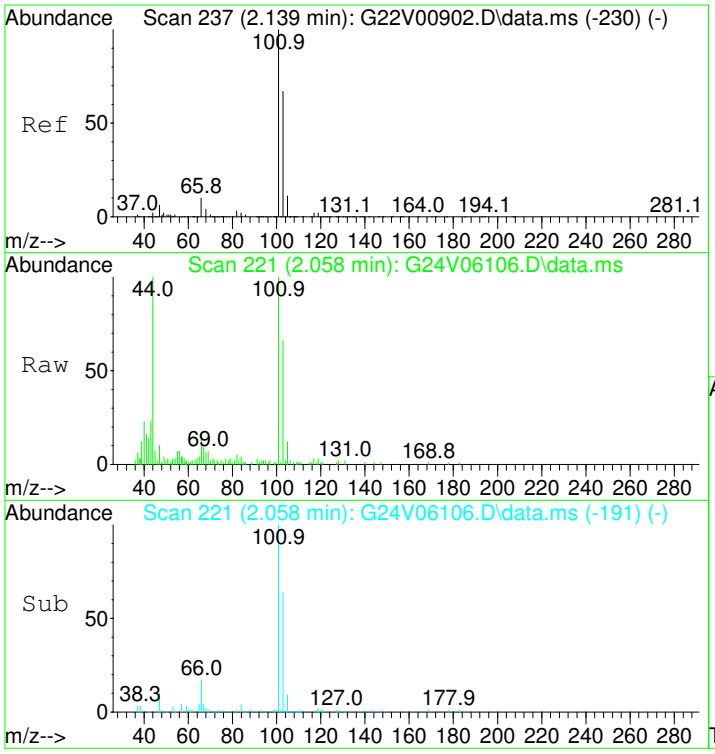


#10
Fluorodichloromethane
Concen: 2.13 ug/L
RT: 2.002 min Scan# 210
Delta R.T. 0.005 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 67 Resp: 49410

Ion	Ratio	Lower	Upper
67	100		
69	31.6	11.3	51.3

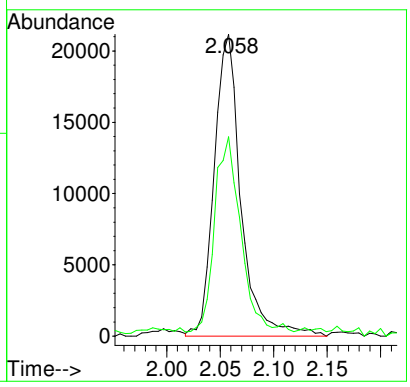


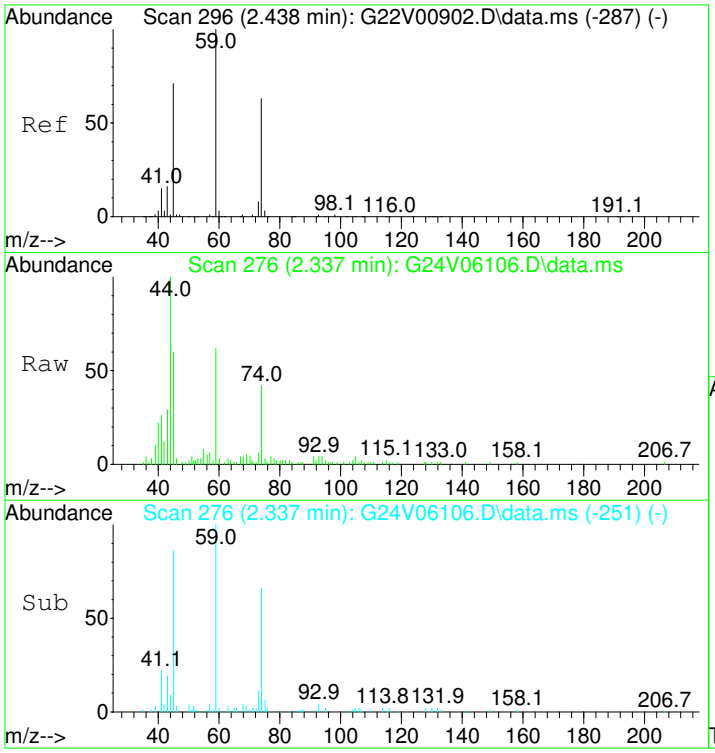


#11
Trichlorofluoromethane
Concen: 1.69 ug/L
RT: 2.058 min Scan# 221
Delta R.T. 0.005 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion:101 Resp: 36944

Ion	Ratio	Lower	Upper
101	100		
103	63.4	45.4	85.4

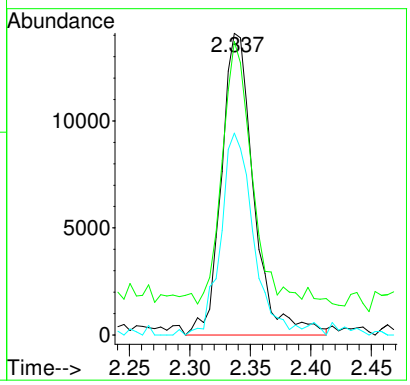


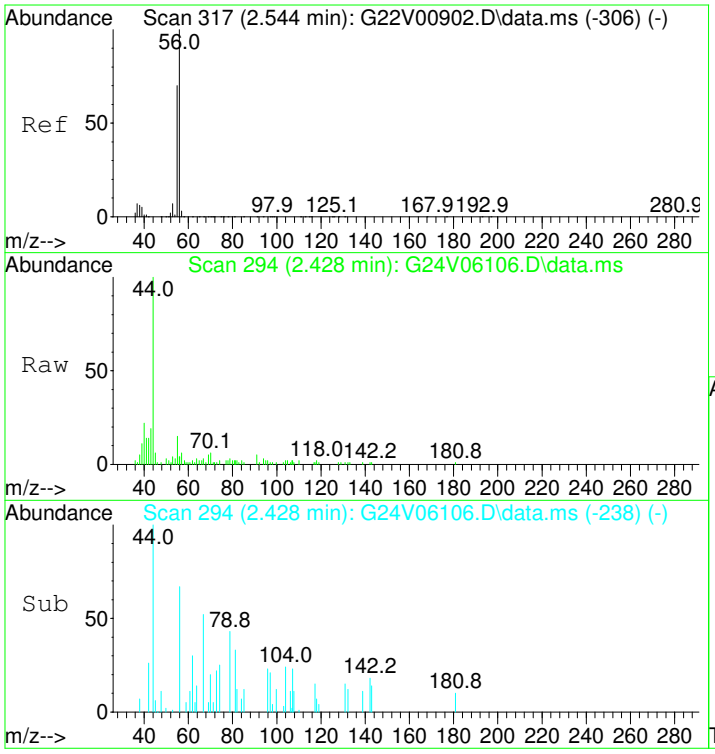


#12
Diethyl ether
Concen: 1.75 ug/L
RT: 2.337 min Scan# 276
Delta R.T. -0.005 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 59 Resp: 26315

Ion	Ratio	Lower	Upper
59	100		
45	79.2	53.1	93.1
74	67.2	53.6	93.6

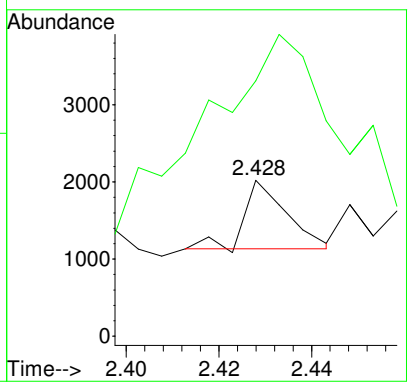


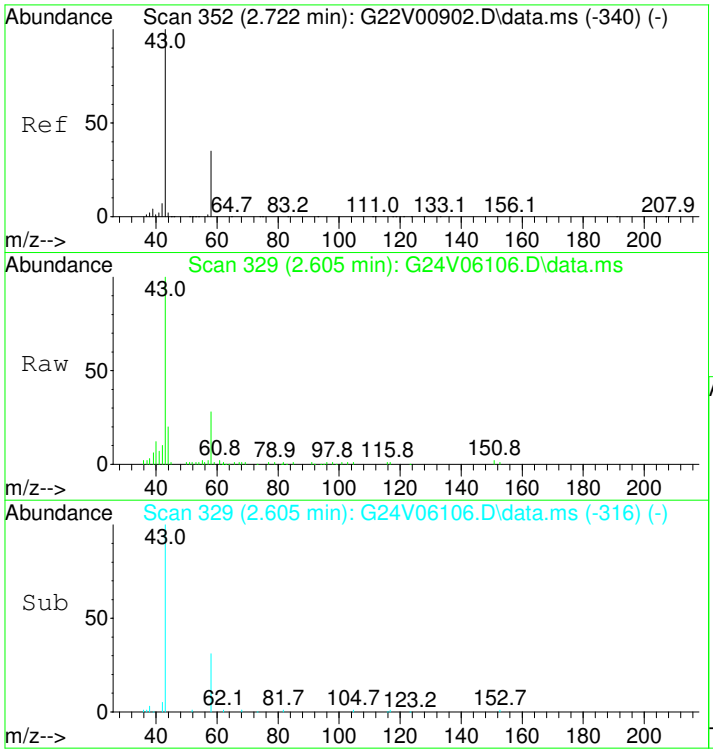


#13
Acrolein
Concen: 0.12 ug/L
RT: 2.428 min Scan# 294
Delta R.T. -0.015 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 56 Resp: 573

Ion	Ratio	Lower	Upper
56	100		
55	935.4	48.5	88.5#

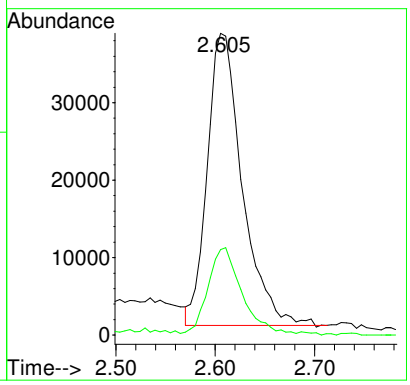


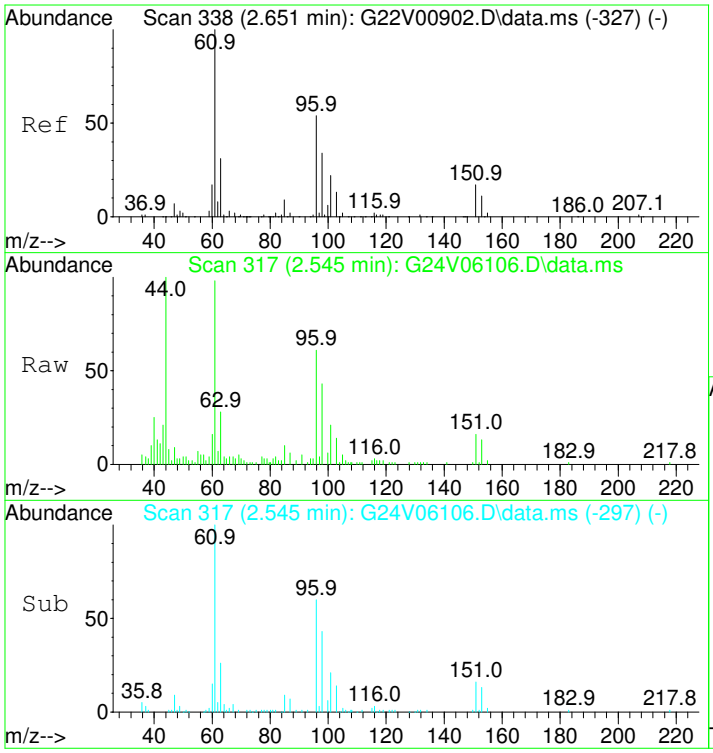


#14
Acetone
Concen: 12.67 ug/L
RT: 2.605 min Scan# 329
Delta R.T. -0.005 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 43 Resp: 92376

Ion	Ratio	Lower	Upper
43	100		
58	27.6	14.5	54.5

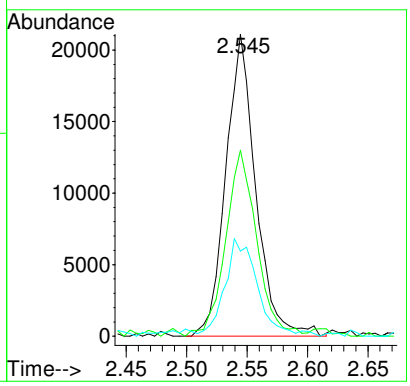


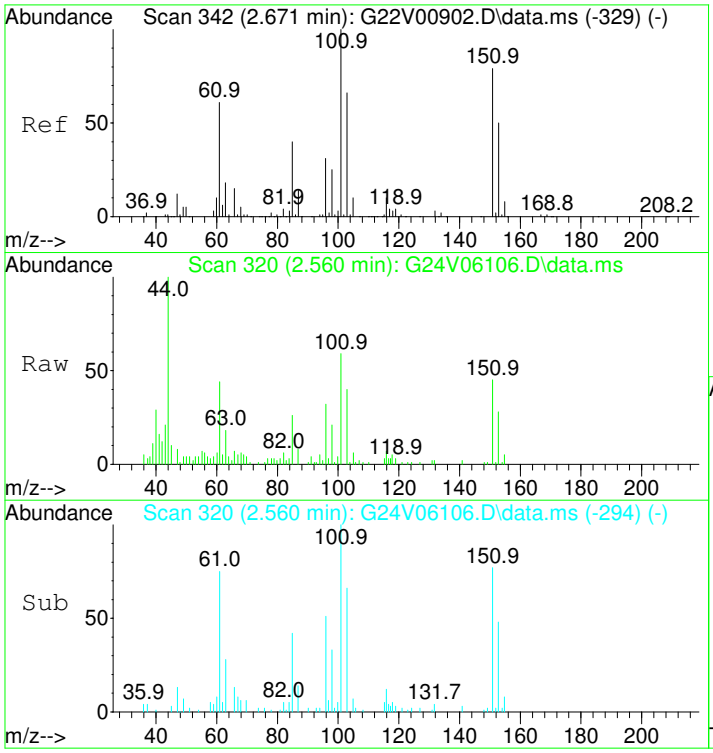


#15
1,1-Dichloroethene
Concen: 1.33 ug/L
RT: 2.545 min Scan# 317
Delta R.T. -0.000 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 61 Resp: 36361

Ion	Ratio	Lower	Upper
61	100		
96	63.8	40.3	80.3
63	32.4	12.3	52.3

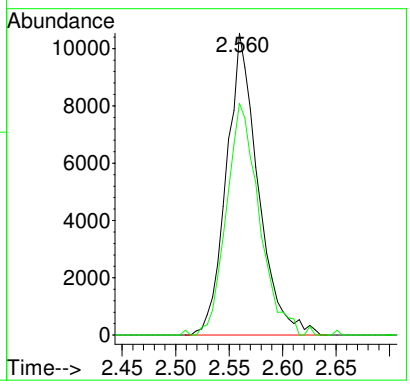


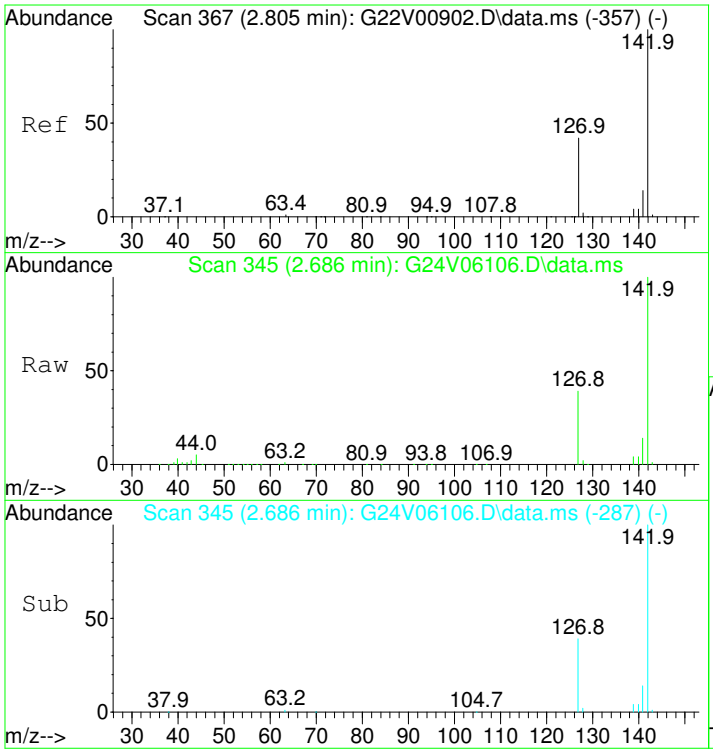


#16
1,1,2-TRICL-1,2,2-TRIFLETHANE
Concen: Below Cal
RT: 2.560 min Scan# 320
Delta R.T. -0.000 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion:101 Resp: 21613

Ion	Ratio	Lower	Upper
101	100		
151	79.3	65.4	105.4

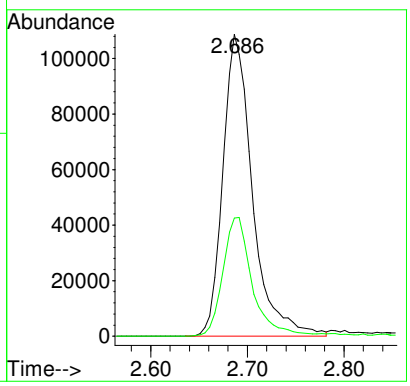


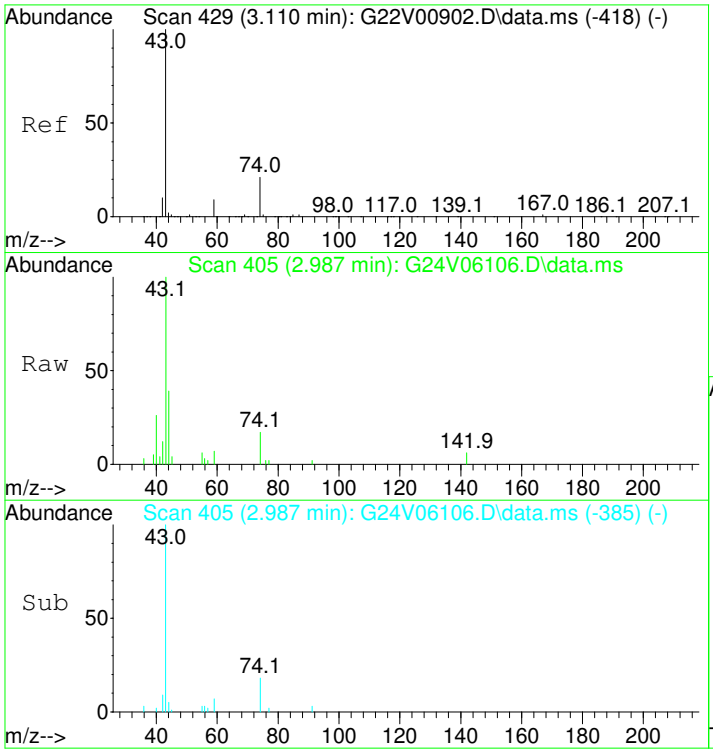


#17
Iodomethane
Concen: 10.24 ug/L
RT: 2.686 min Scan# 345
Delta R.T. -0.006 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion:142 Resp: 244766

Ion	Ratio	Lower	Upper
142	100		
127	39.3	19.0	59.0

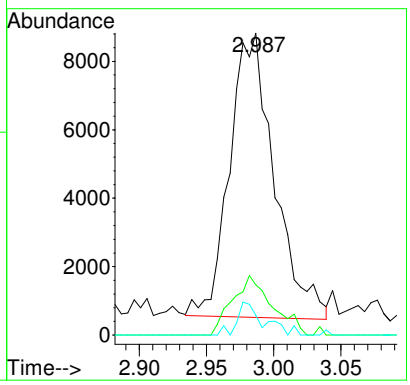


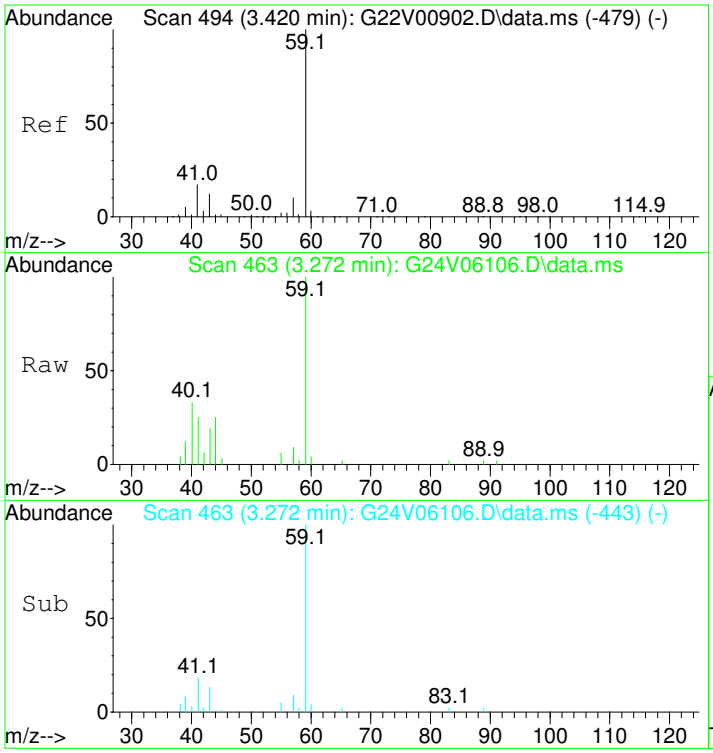


#19
Methyl acetate
Concen: 1.18 ug/L
RT: 2.987 min Scan# 405
Delta R.T. 0.005 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 43 Resp: 19237

Ion	Ratio	Lower	Upper
43	100		
74	18.7	5.4	45.4
59	4.9	0.0	27.5

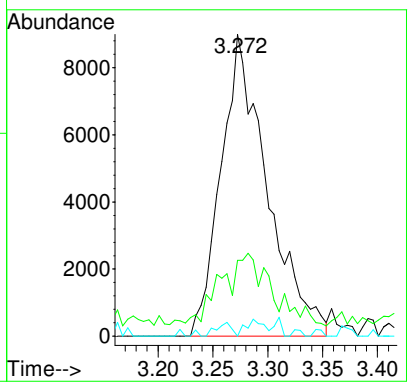


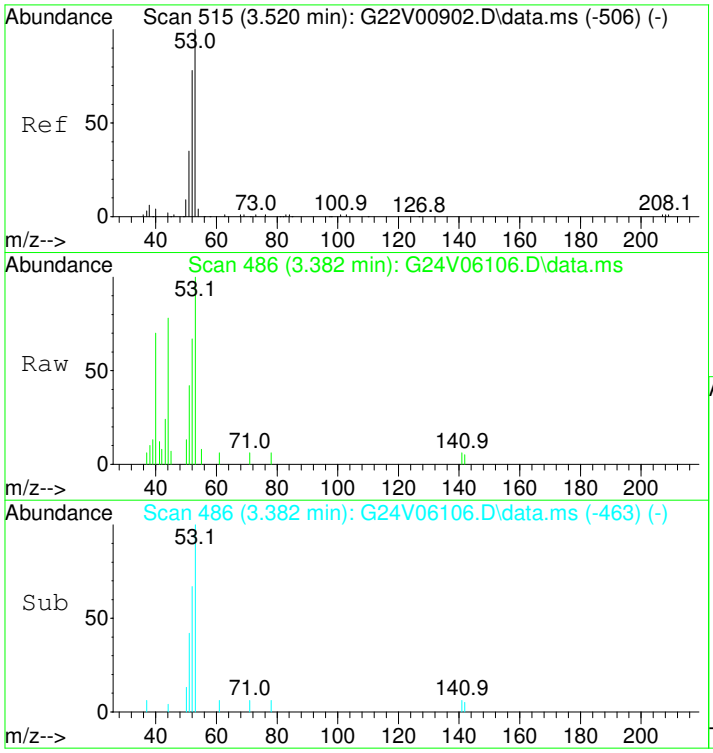


#20
t-Butyl alcohol
Concen: 10.20 ug/L
RT: 3.272 min Scan# 463
Delta R.T. -0.005 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 59 Resp: 26302

Ion	Ratio	Lower	Upper
59	100		
41	11.4	21.4	61.4#
56	2.1	0.0	37.8

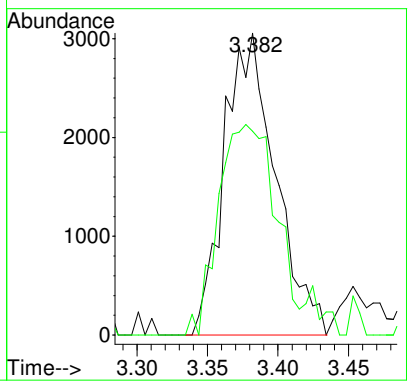


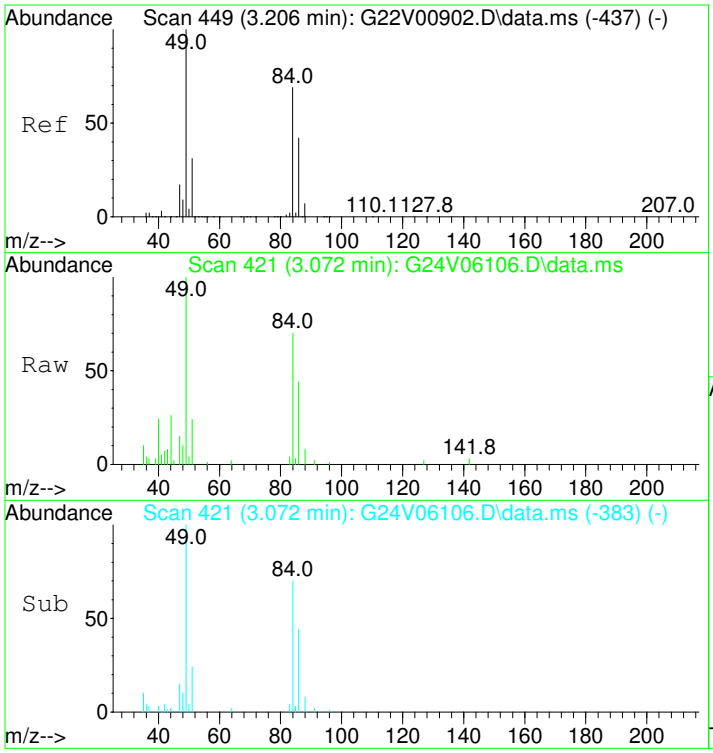


#21
Acrylonitrile
Concen: 1.19 ug/L
RT: 3.382 min Scan# 486
Delta R.T. 0.010 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 53 Resp: 7735

Ion	Ratio	Lower	Upper
53	100		
52	78.0	66.6	106.6

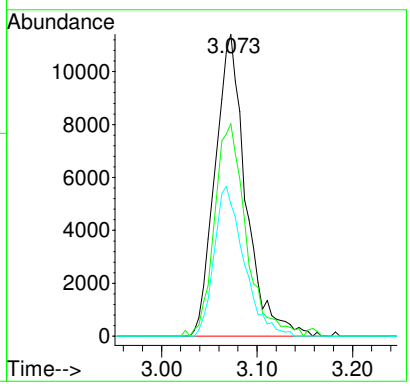


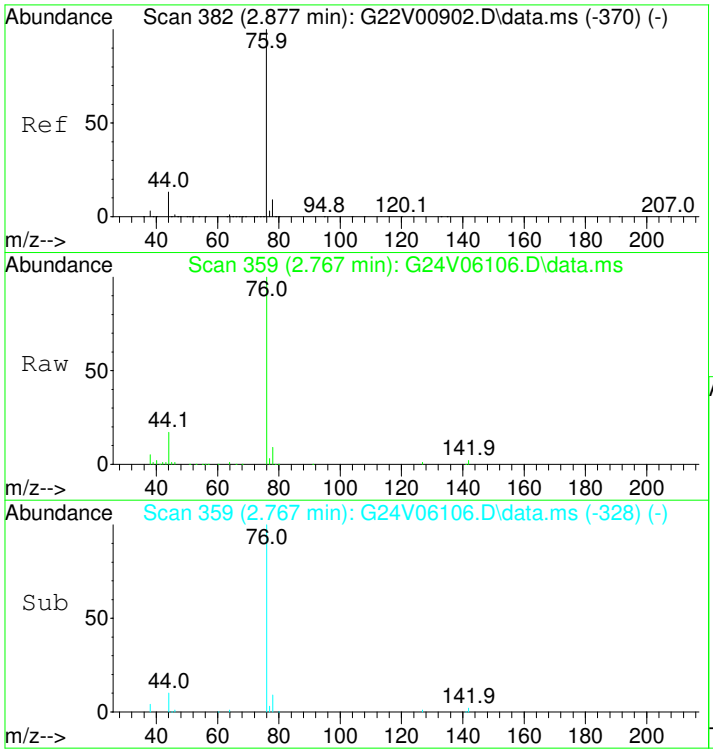


#22
Methylene chloride
Concen: 1.19 ug/L
RT: 3.072 min Scan# 421
Delta R.T. 0.000 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 49 Resp: 23566

Ion	Ratio	Lower	Upper
49	100		
84	72.3	68.0	108.0
86	47.9	36.9	76.9

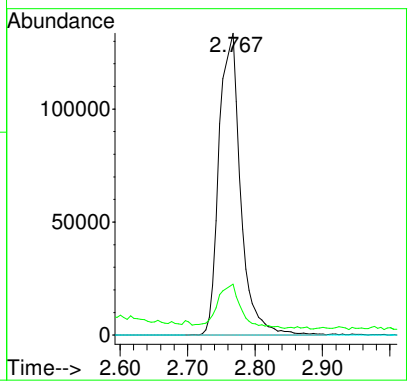


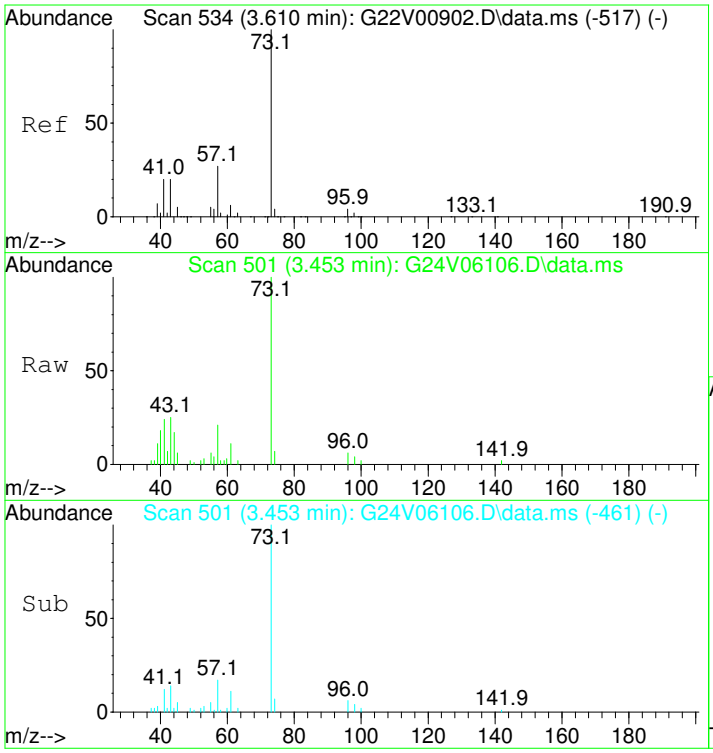


#23
Carbon disulfide
Concen: 7.43 ug/L
RT: 2.767 min Scan# 359
Delta R.T. 0.000 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 76 Resp: 233347

Ion	Ratio	Lower	Upper
76	100		
44	17.0	0.0	31.7
32	0.0	0.0	20.0

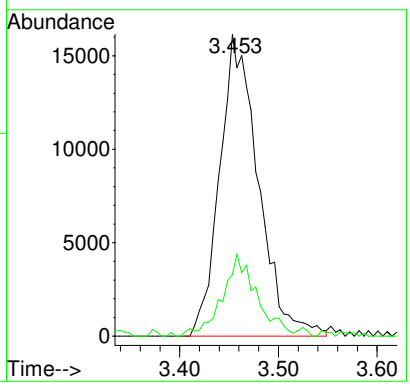


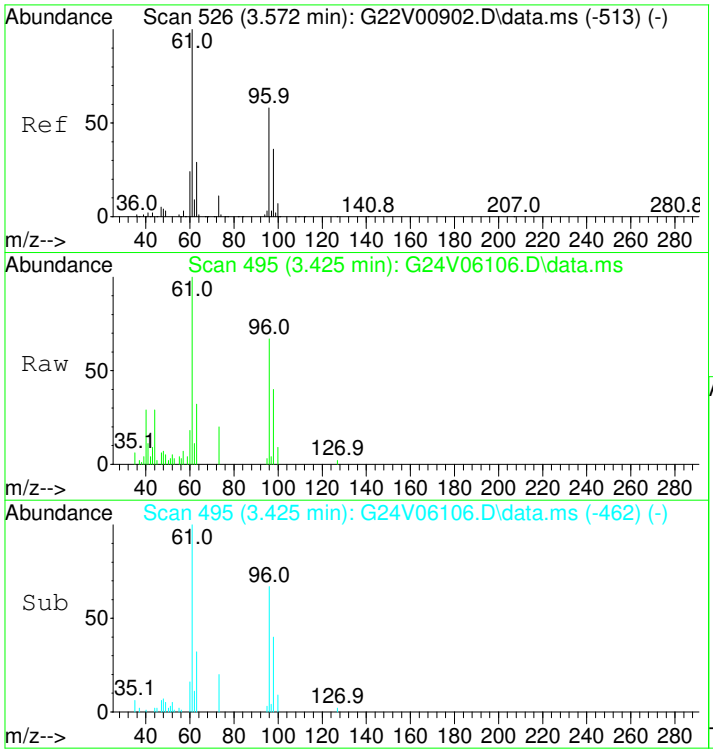


#24
Methyl tert-butyl ether (MTBE)
Concen: 1.00 ug/L
RT: 3.453 min Scan# 501
Delta R.T. -0.010 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 73 Resp: 43866

Ion	Ratio	Lower	Upper
73	100		
57	24.1	1.8	41.8

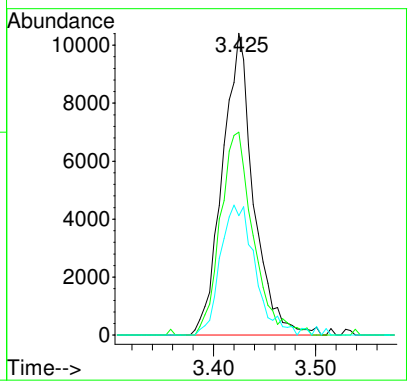


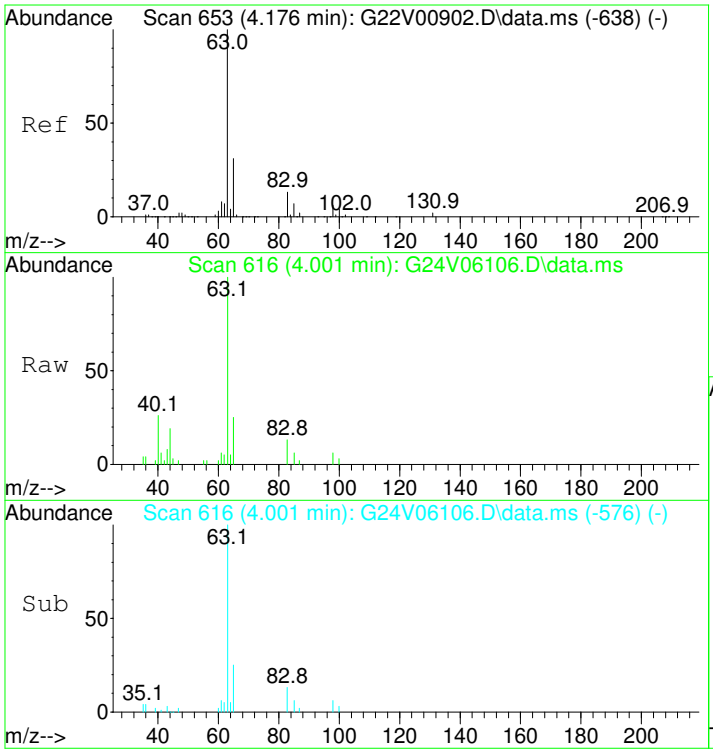


#25
TRANS 1,2-DICHLOROETHENE
Concen: 0.98 ug/L
RT: 3.425 min Scan# 495
Delta R.T. -0.000 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 61 Resp: 22080

Ion	Ratio	Lower	Upper
61	100		
96	71.1	53.5	93.5
98	47.9	27.6	67.6

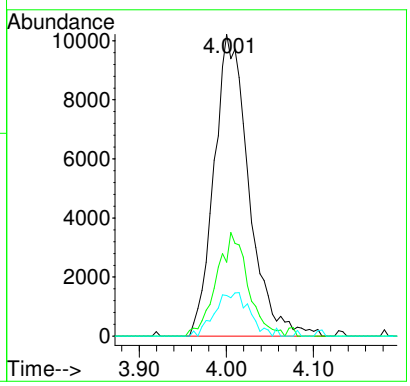


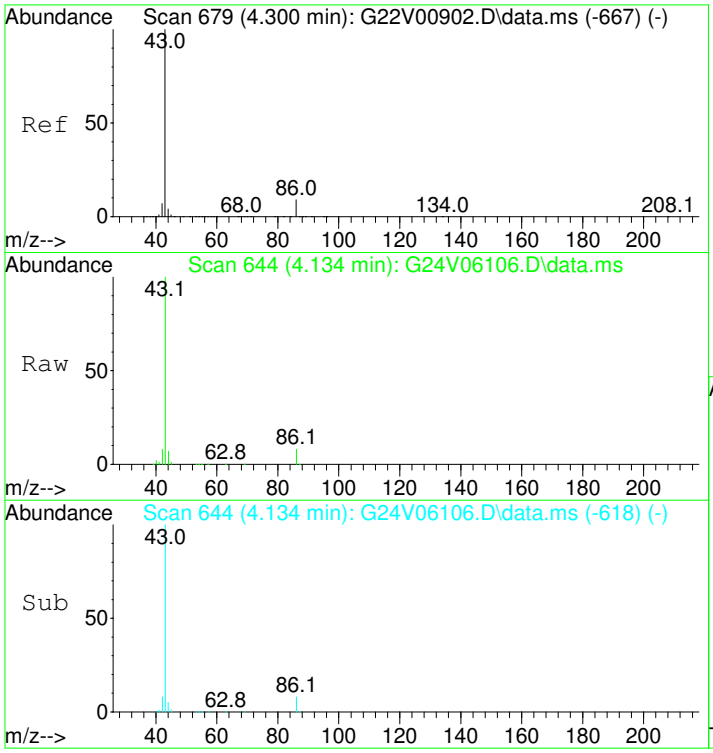


#26
1,1-Dichloroethane
Concen: 0.98 ug/L
RT: 4.001 min Scan# 616
Delta R.T. -0.004 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 63 Resp: 28287

Ion	Ratio	Lower	Upper
63	100		
65	31.1	9.8	49.8
83	14.4	0.0	34.2

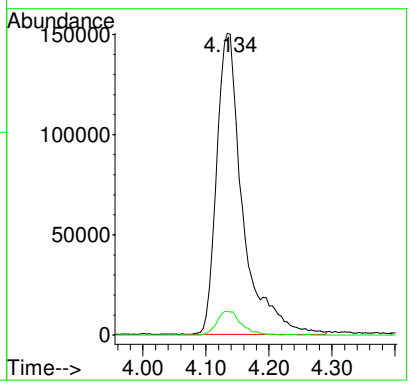


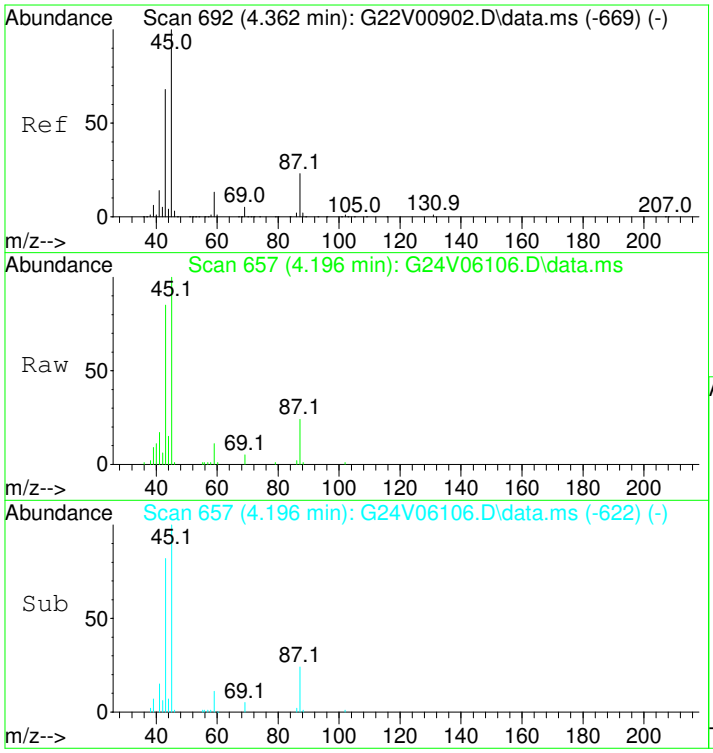


#28
Vinyl acetate
Concen: 12.97 ug/L
RT: 4.134 min Scan# 644
Delta R.T. -0.005 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 43 Resp: 431970

Ion	Ratio	Lower	Upper
43	100		
86	7.4	0.0	31.9

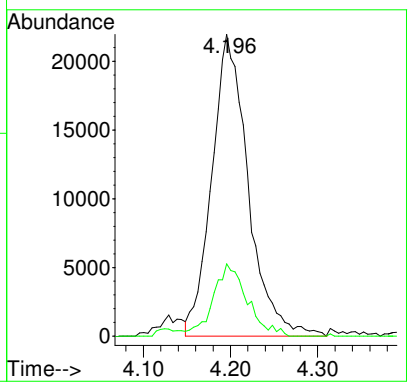


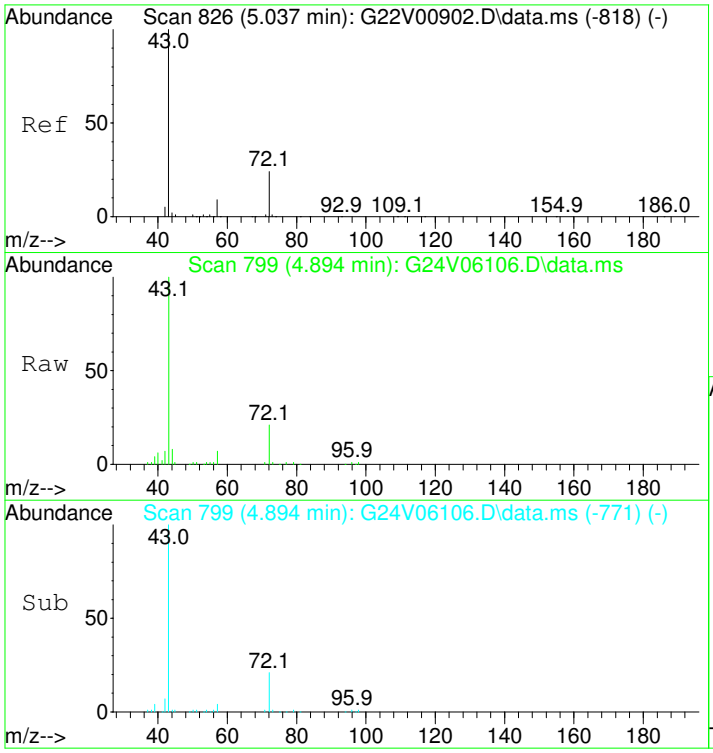


#30
Di isopropyl ether
Concen: 1.30 ug/L
RT: 4.196 min Scan# 657
Delta R.T. -0.004 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 45 Resp: 63828

Ion	Ratio	Lower	Upper
45	100		
87	22.2	8.6	48.6

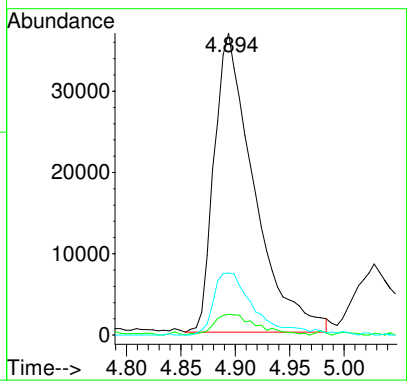


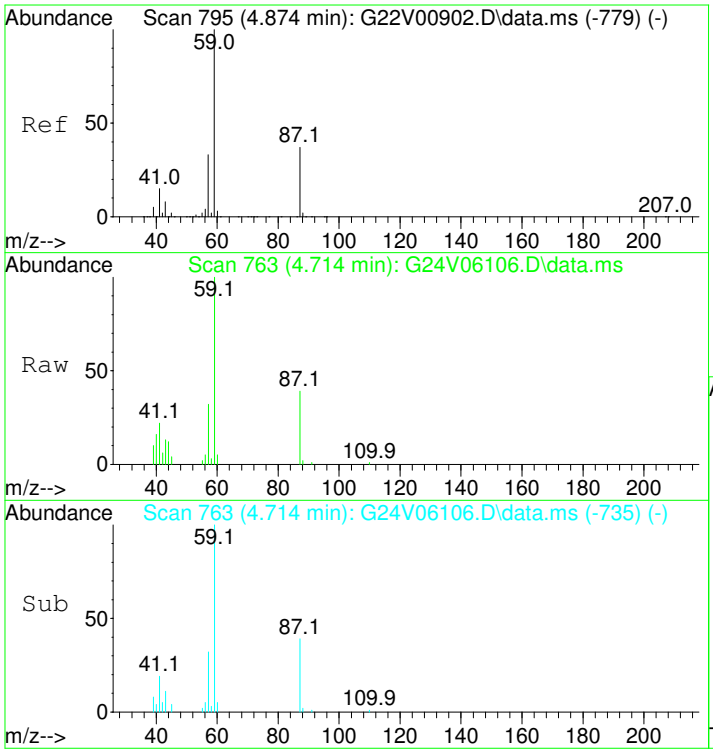


#31
2-Butanone (MEK)
Concen: 11.46 ug/L
RT: 4.894 min Scan# 799
Delta R.T. 0.005 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 43 Resp: 93867

Ion	Ratio	Lower	Upper
43	100		
57	7.5	0.0	28.9
72	21.3	8.6	48.6

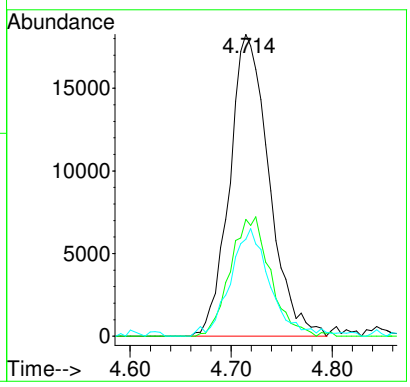


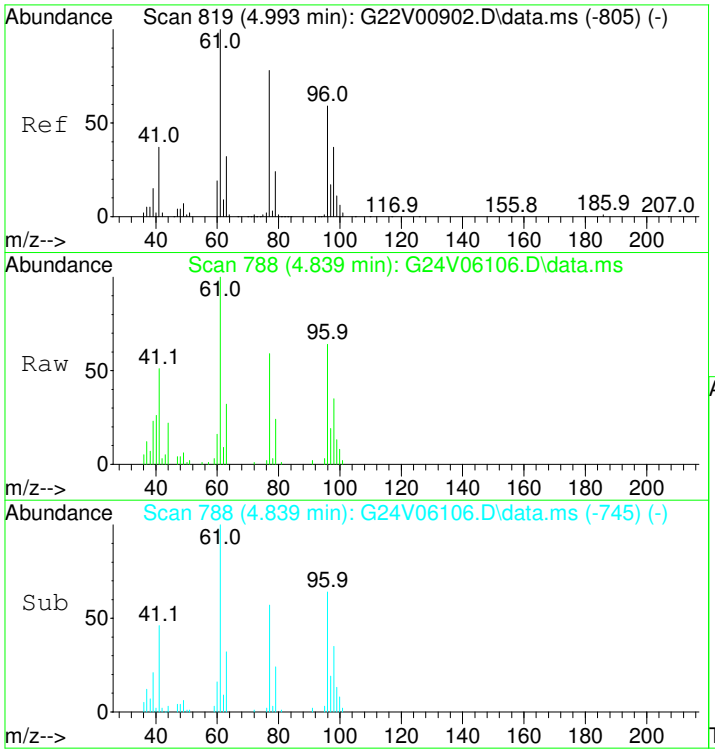


#33
t-Butyl ethyl ether
Concen: 0.92 ug/L
RT: 4.714 min Scan# 763
Delta R.T. -0.005 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 59 Resp: 49613

Ion	Ratio	Lower	Upper
59	100		
87	39.8	22.3	62.3
57	35.9	12.6	52.6

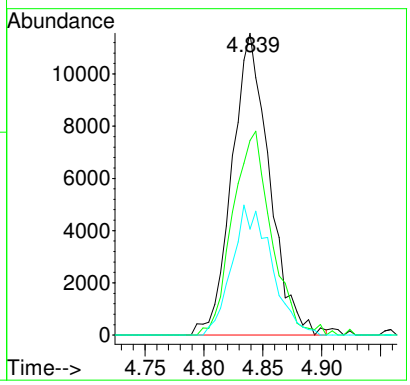


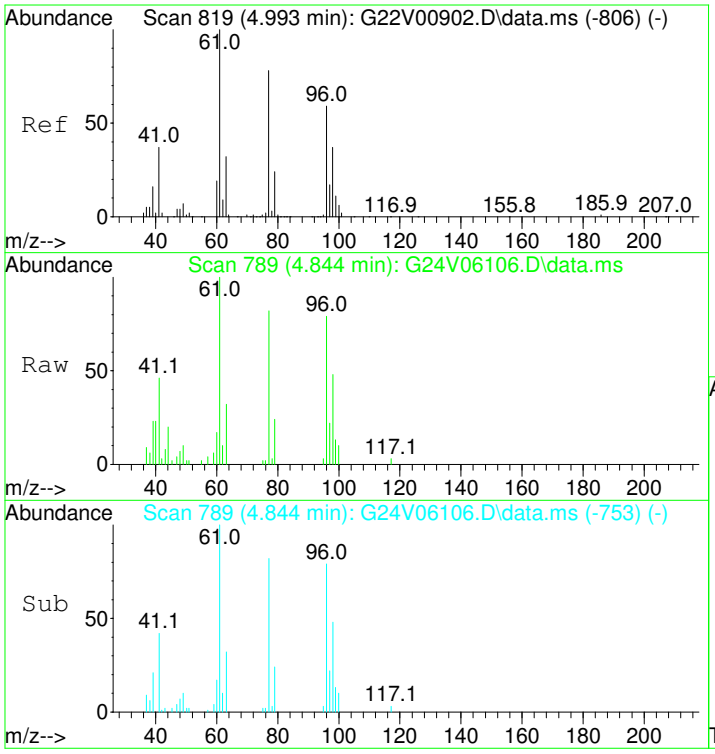


#34
cis-1,2-Dichloroethene
Concen: 0.98 ug/L
RT: 4.839 min Scan# 788
Delta R.T. 0.000 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 61 Resp: 25493

Ion	Ratio	Lower	Upper
61	100		
96	70.2	40.3	80.3
98	45.4	19.6	59.6

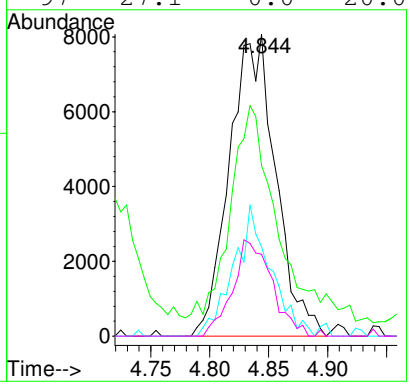


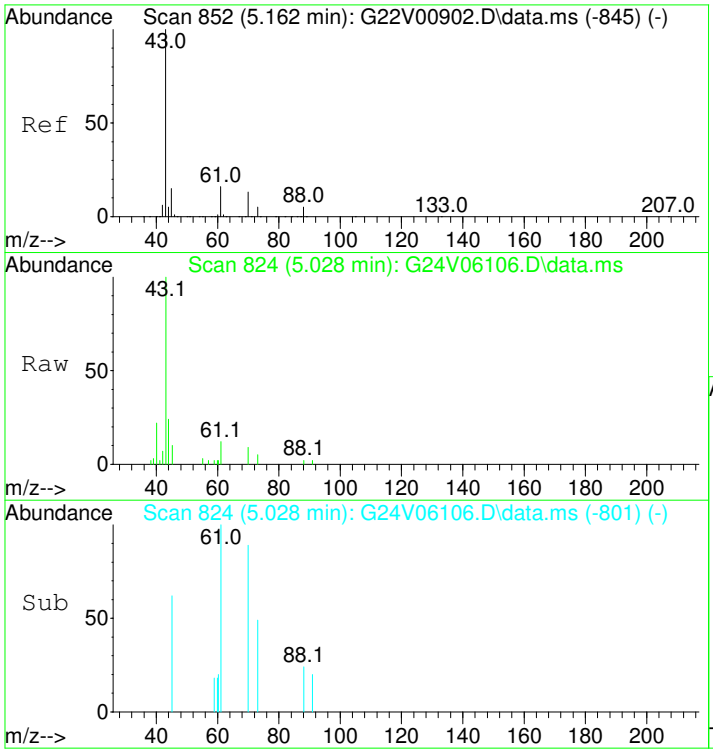


#35
2,2-Dichloropropane
Concen: 0.94 ug/L
RT: 4.844 min Scan# 789
Delta R.T. 0.005 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 77 Resp: 21984

Ion	Ratio	Lower	Upper
77	100		
41	73.5	0.0	20.0#
79	34.7	0.0	20.0#
97	27.1	0.0	20.0#

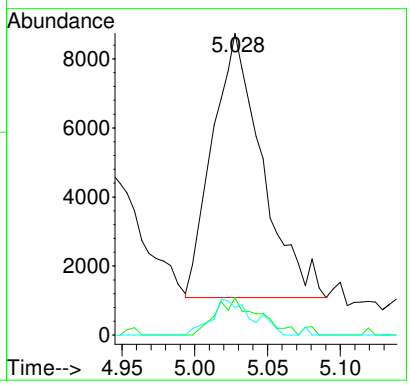


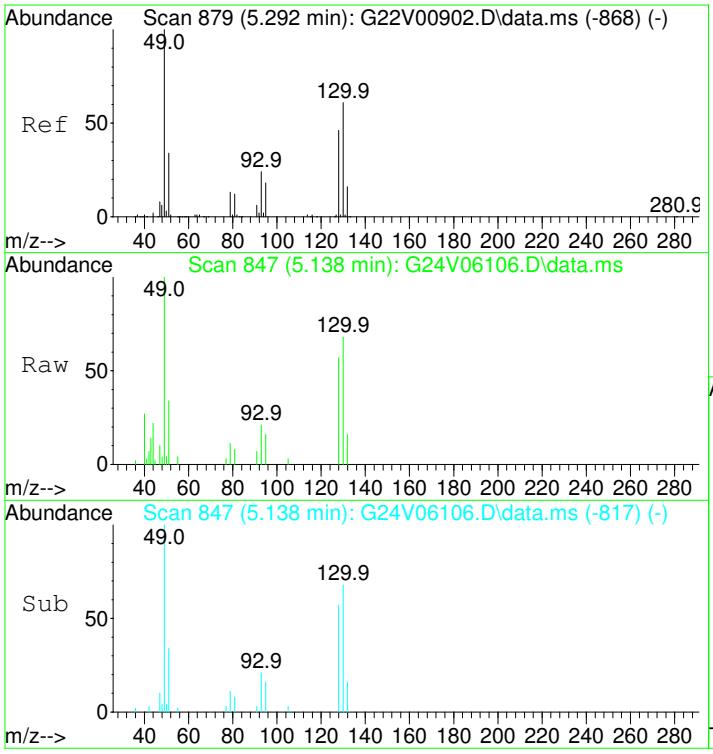


#36
Ethyl acetate
Concen: 1.20 ug/L
RT: 5.028 min Scan# 824
Delta R.T. 0.010 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 43 Resp: 18349

Ion	Ratio	Lower	Upper
43	100		
61	12.7	0.0	20.0
70	10.1	0.0	20.0

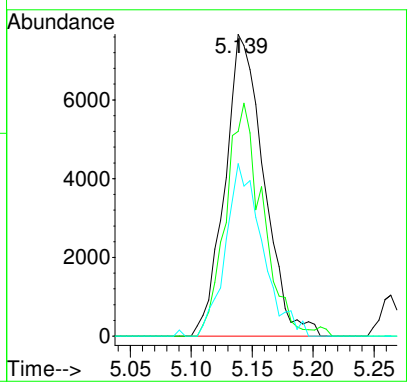


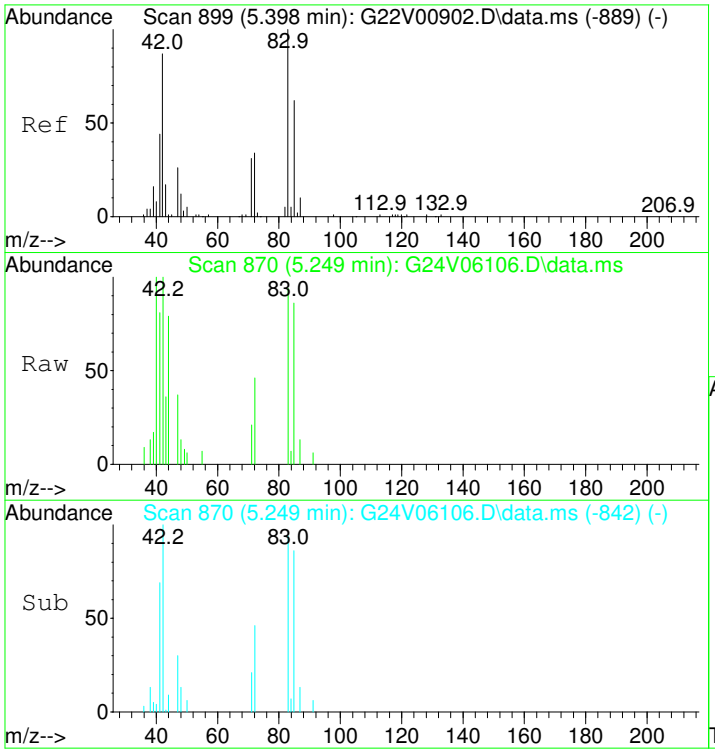


#37
Bromochloromethane
Concen: 1.29 ug/L
RT: 5.138 min Scan# 847
Delta R.T. -0.005 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 49 Resp: 17027

Ion	Ratio	Lower	Upper
49	100		
130	72.9	70.5	110.5
128	54.1	44.9	84.9

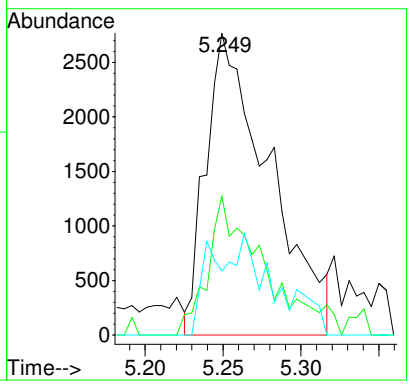


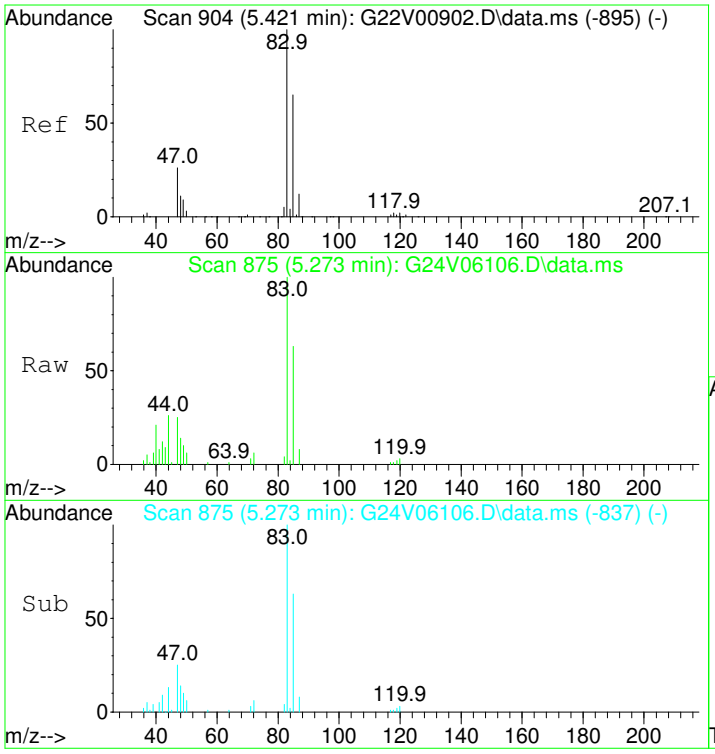


#38
Tetrahydrofuran
Concen: 1.42 ug/L m
RT: 5.249 min Scan# 870
Delta R.T. 0.000 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 42 Resp: 8292

Ion	Ratio	Lower	Upper
42	100		
72	40.1	27.8	67.8
71	8.9	23.3	63.3#

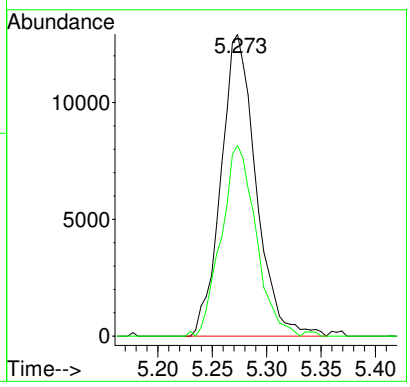


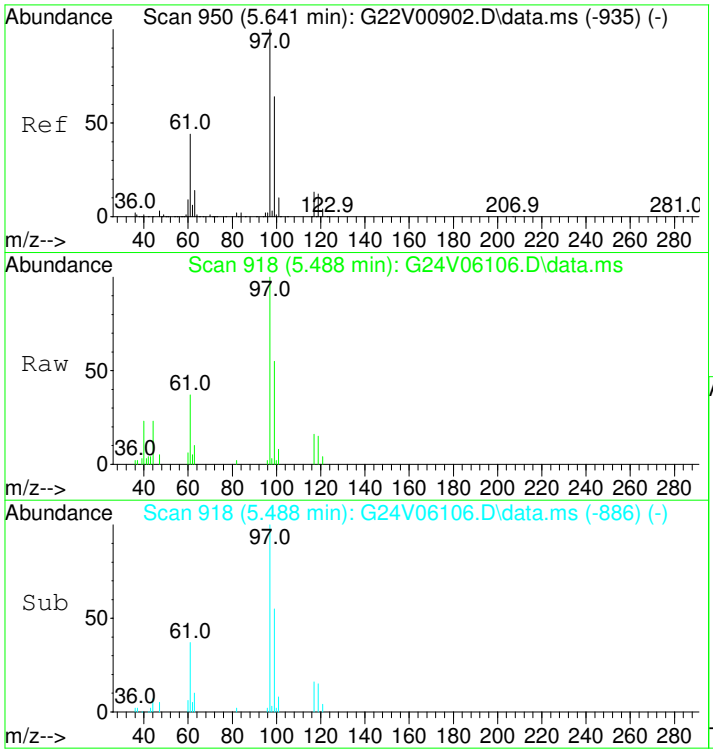


#39
Chloroform
Concen: 1.19 ug/L
RT: 5.273 min Scan# 875
Delta R.T. -0.005 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 83 Resp: 29815

Ion	Ratio	Lower	Upper
83	100		
85	63.8	103.3	143.3#

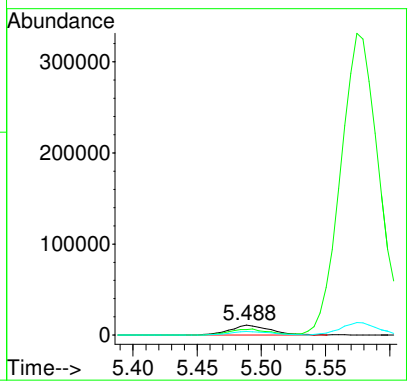


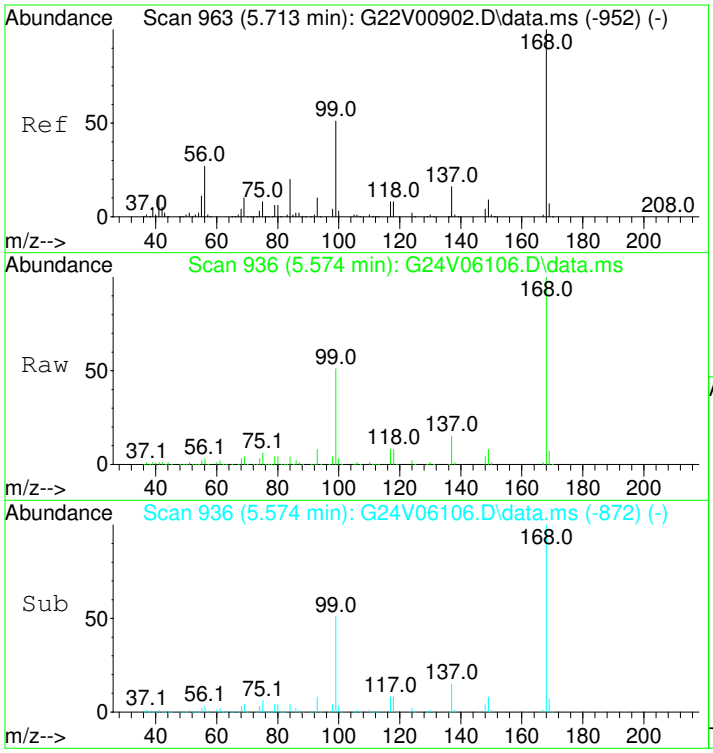


#42
1,1,1-Trichloroethane
Concen: 1.04 ug/L
RT: 5.488 min Scan# 918
Delta R.T. -0.010 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 97 Resp: 23865

Ion	Ratio	Lower	Upper
97	100		
99	60.2	40.6	80.6
61	38.4	22.4	62.4

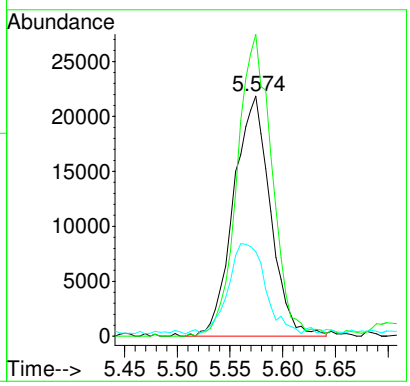


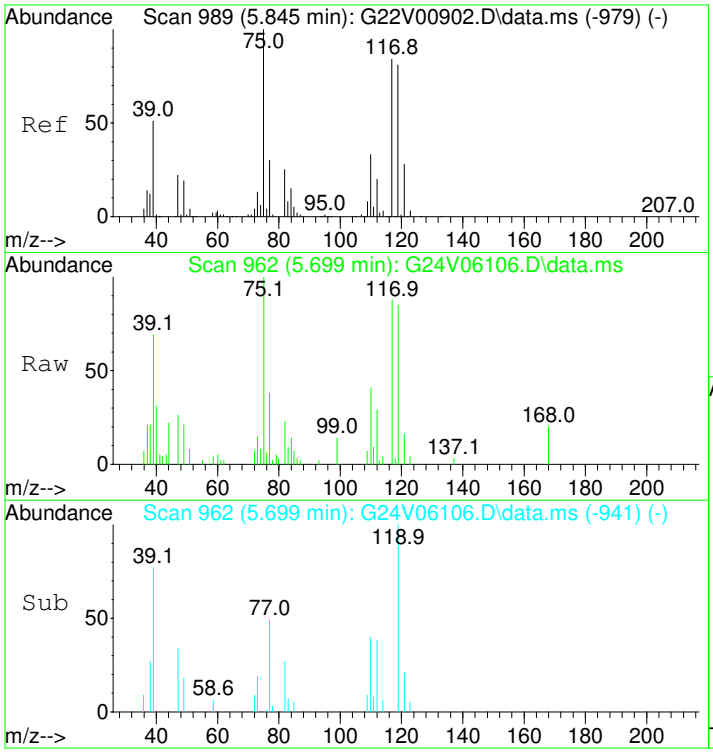


#43
Cyclohexane
Concen: 1.23 ug/L
RT: 5.574 min Scan# 936
Delta R.T. 0.004 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 56 Resp: 53019

Ion	Ratio	Lower	Upper
56	100		
84	118.7	0.0	20.0#
41	38.0	134.5	174.5#

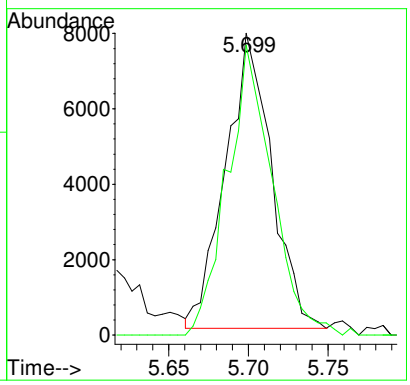


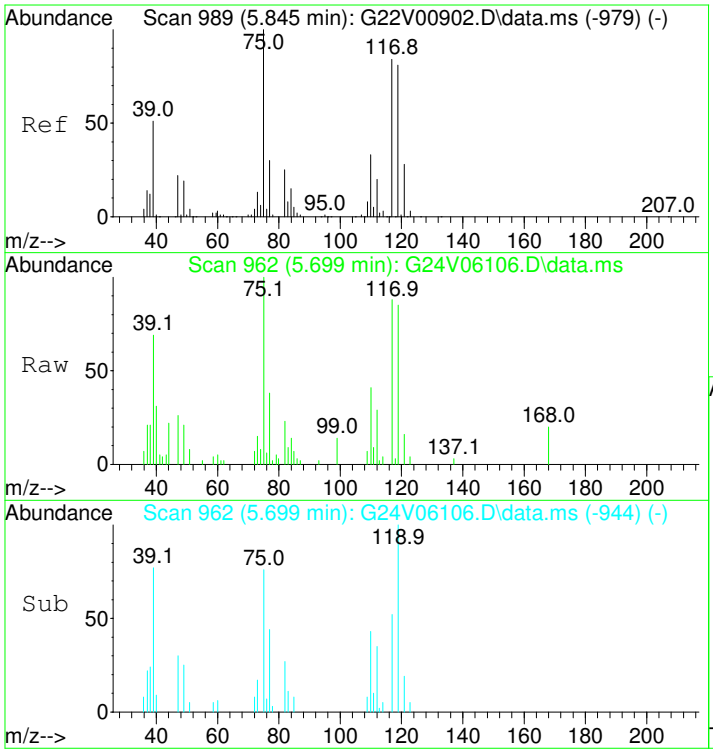


#44
Carbon tetrachloride
Concen: 1.41 ug/L
RT: 5.699 min Scan# 962
Delta R.T. -0.000 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion:117 Resp: 13539

Ion	Ratio	Lower	Upper
117	100		
119	95.0	13.1	53.1#

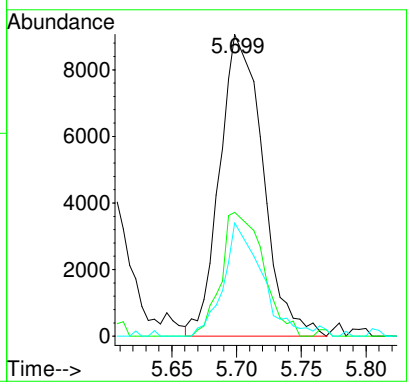


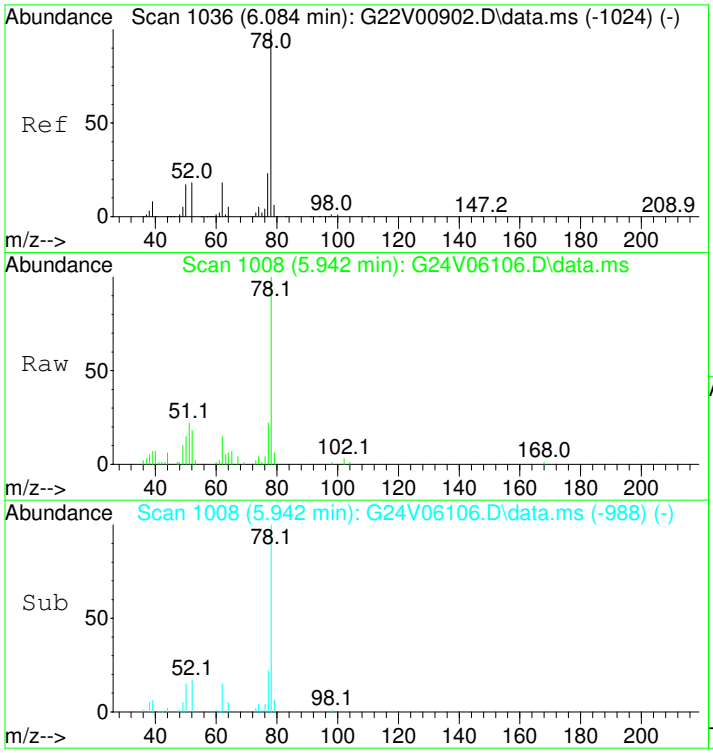


#45
1,1-Dichloropropene
Concen: 1.13 ug/L
RT: 5.699 min Scan# 962
Delta R.T. -0.014 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 75 Resp: 17866

Ion	Ratio	Lower	Upper
75	100		
110	39.9	16.5	56.5
77	33.3	11.6	51.6

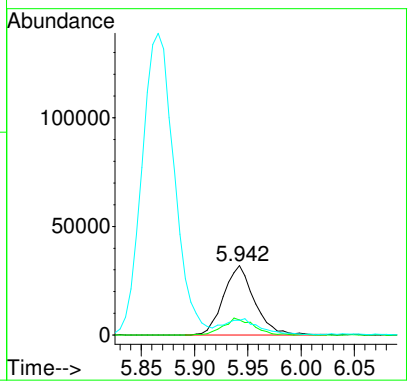


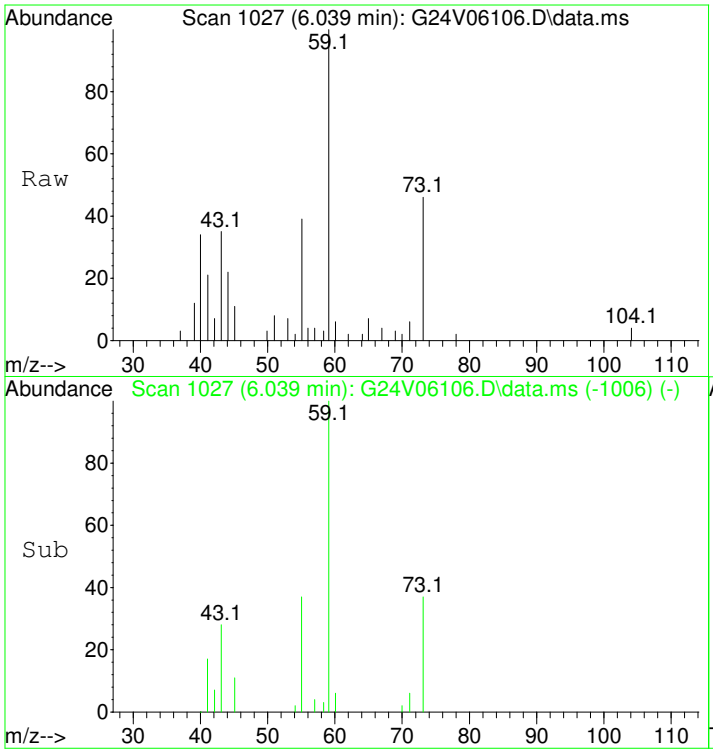


#46
Benzene
Concen: 1.08 ug/L
RT: 5.942 min Scan# 1008
Delta R.T. 0.000 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 78 Resp: 64646

Ion	Ratio	Lower	Upper
78	100		
77	24.0	4.4	44.4
51	26.0	0.0	37.3

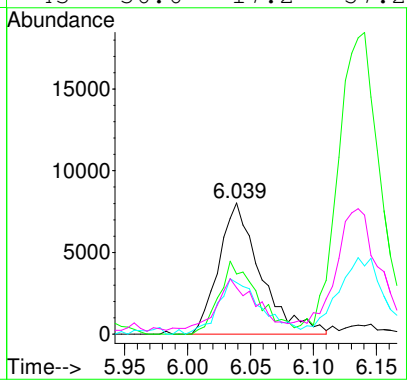


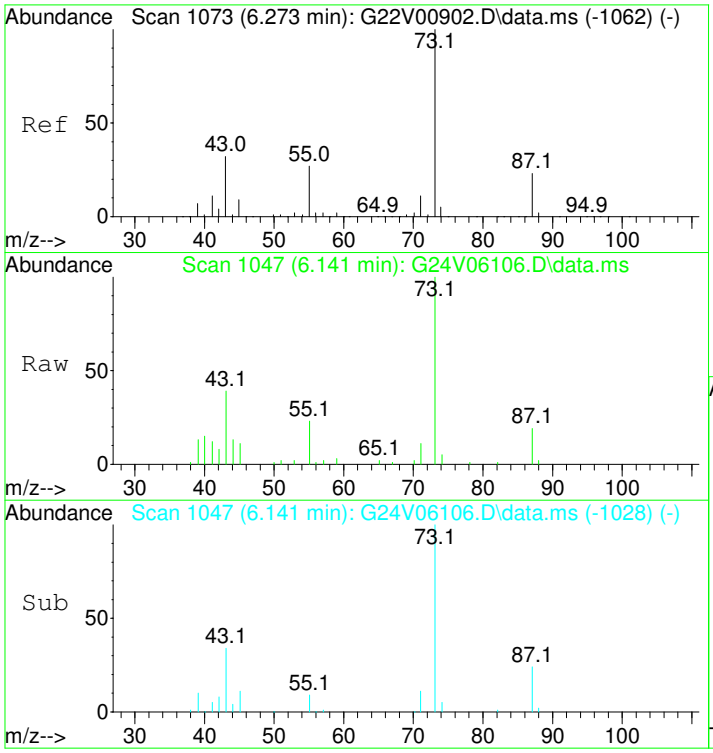


#47
tert-Amyl Alcohol (TAA)
Concen: 22.51 ug/L
RT: 6.039 min Scan# 1027
Delta R.T. 0.009 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 59 Resp: 18569

Ion	Ratio	Lower	Upper
59	100		
73	51.3	107.4	147.4#
55	43.8	43.2	83.2
43	36.6	17.2	57.2

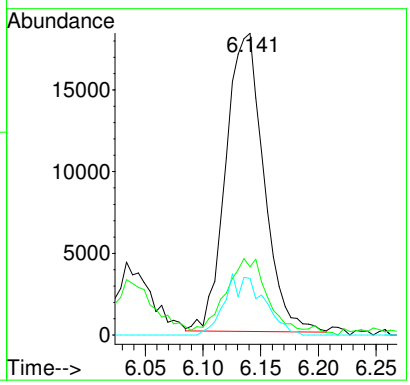


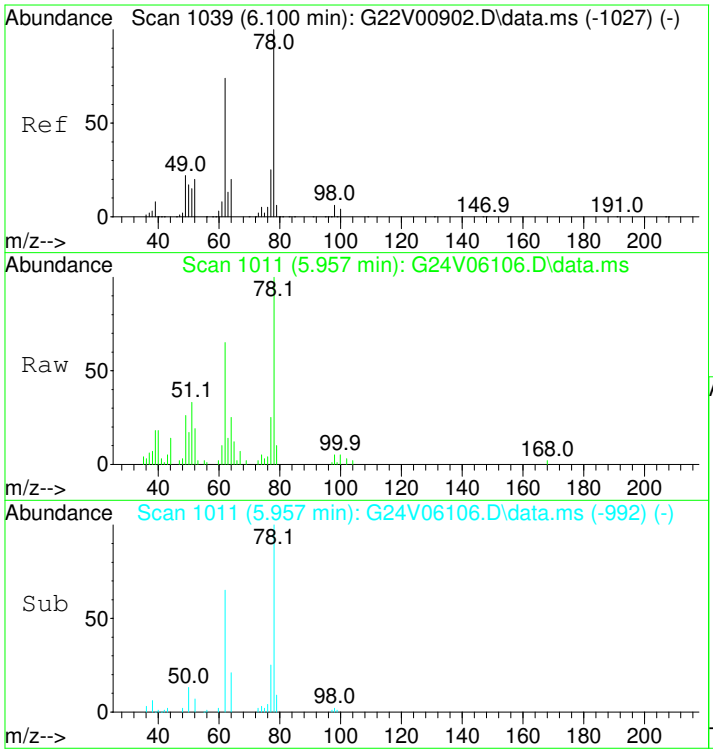


#48
T-AMYL METHYL ETHER
Concen: 0.91 ug/L
RT: 6.141 min Scan# 1047
Delta R.T. -0.000 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 73 Resp: 41762

Ion	Ratio	Lower	Upper
73	100		
55	24.8	22.2	62.2
87	8.3	3.6	43.6

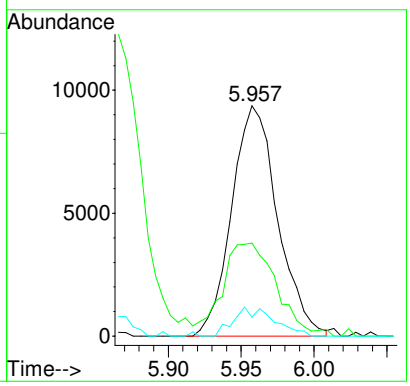


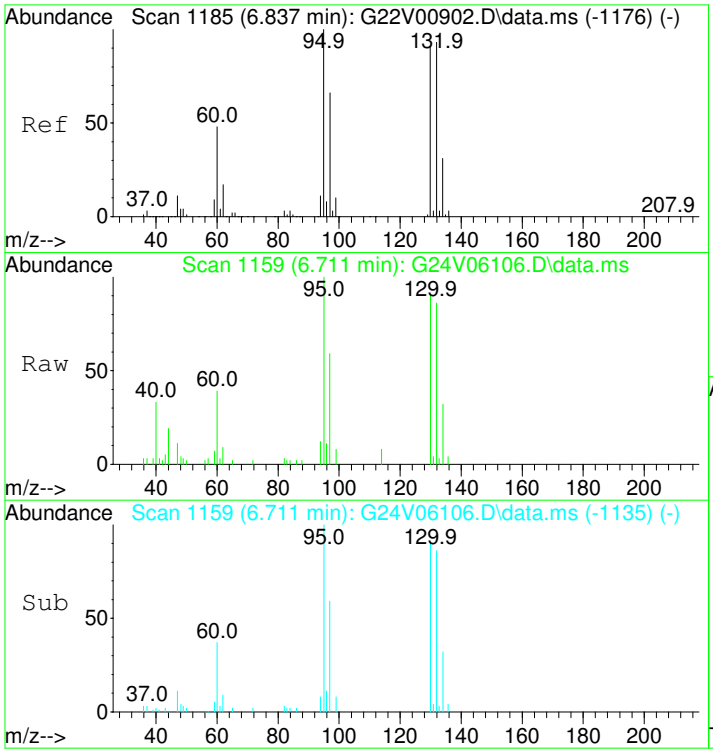


#51
1,2-Dichloroethane
Concen: 0.81 ug/L
RT: 5.957 min Scan# 1011
Delta R.T. -0.006 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 62 Resp: 20557

Ion	Ratio	Lower	Upper
62	100		
49	47.5	11.5	51.5
98	11.1	0.0	30.8

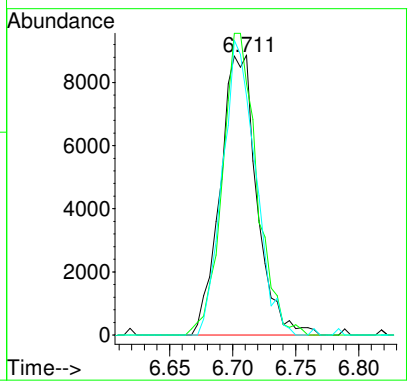


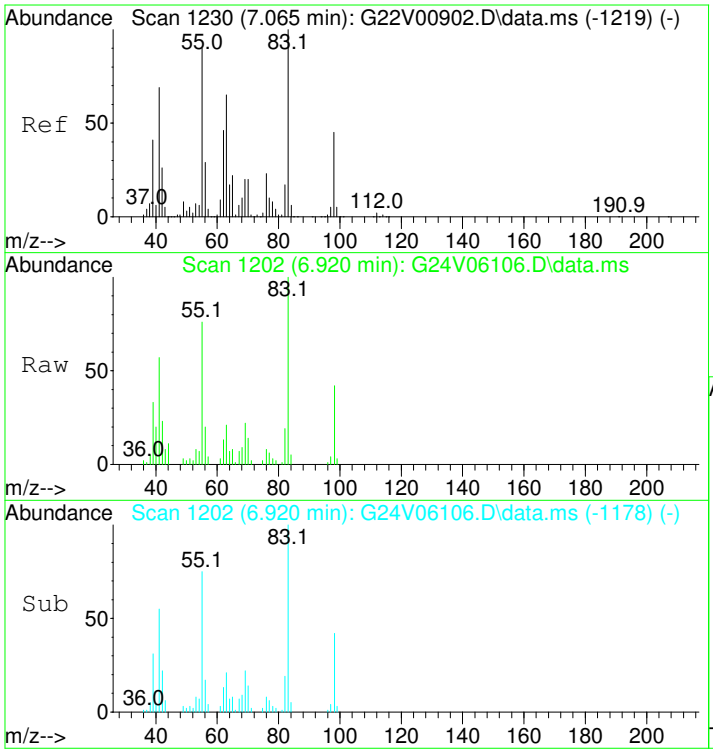


#53
Trichloroethene
Concen: 0.97 ug/L
RT: 6.711 min Scan# 1159
Delta R.T. 0.005 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 95 Resp: 17940

Ion	Ratio	Lower	Upper
95	100		
130	101.0	87.1	127.1
132	94.8	86.0	126.0

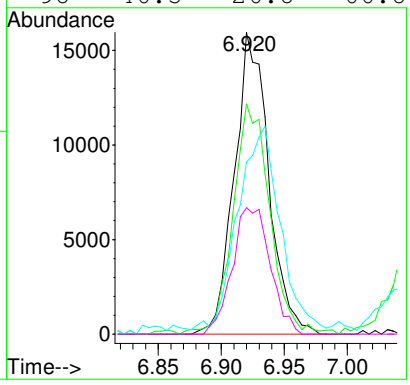


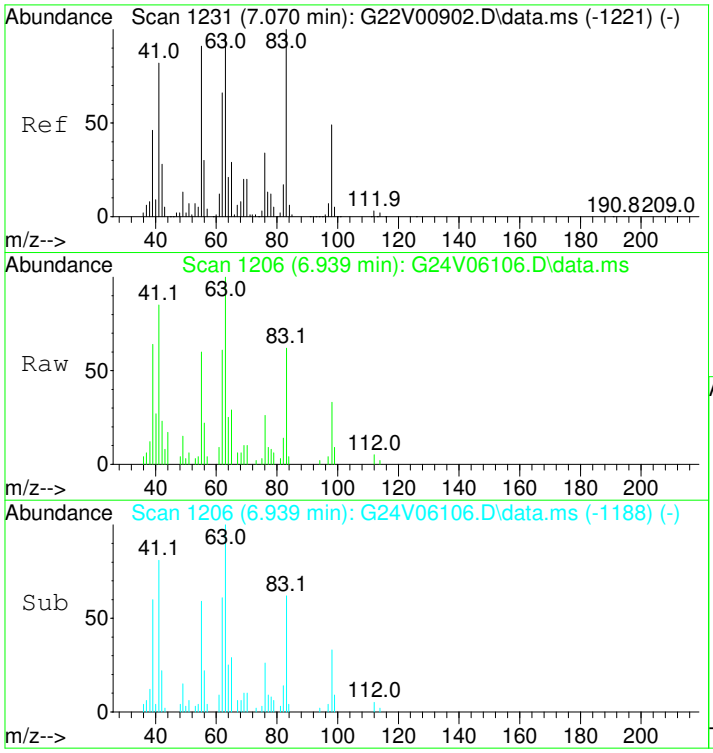


#54
Methylcyclohexane
Concen: 0.97 ug/L
RT: 6.920 min Scan# 1202
Delta R.T. -0.005 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 83 Resp: 30153

Ion	Ratio	Lower	Upper
83	100		
55	81.5	55.4	95.4
41	84.5	35.9	75.9#
98	46.5	26.8	66.8

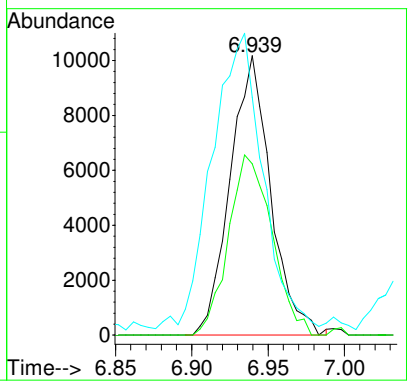


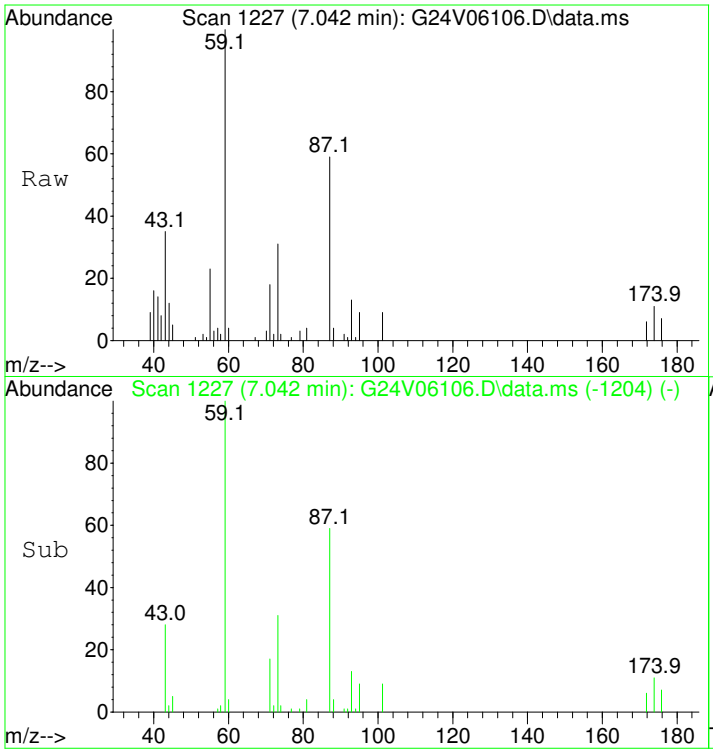


#55
1,2-Dichloropropane
Concen: 0.93 ug/L
RT: 6.939 min Scan# 1206
Delta R.T. 0.000 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 63 Resp: 18790

Ion	Ratio	Lower	Upper
63	100		
62	69.0	55.8	95.8
41	132.1	53.7	93.7#

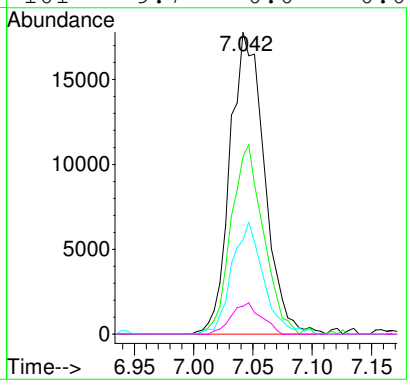


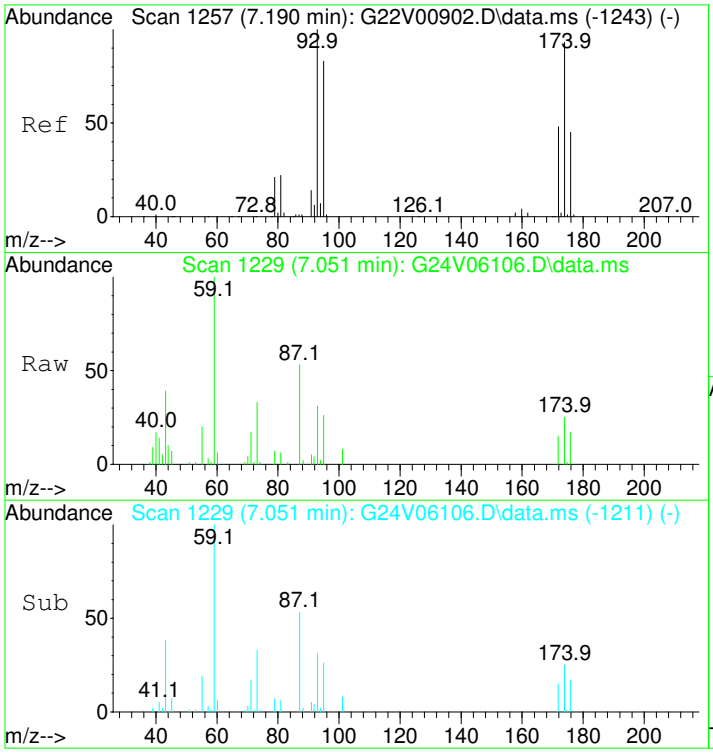


#56
tert-Amyl Ethyl Ether (TAEE)
Concen: 1.77 ug/L
RT: 7.042 min Scan# 1227
Delta R.T. 0.012 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 59 Resp: 31953

Ion	Ratio	Lower	Upper
59	100		
87	61.1	0.0	0.0#
73	34.8	0.0	0.0#
101	9.7	0.0	0.0#

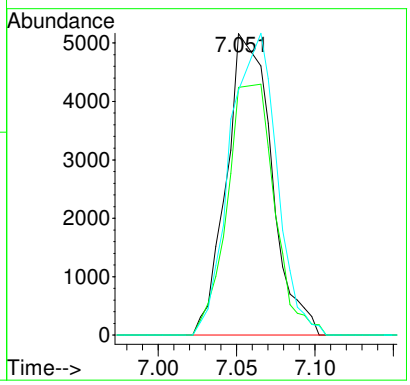


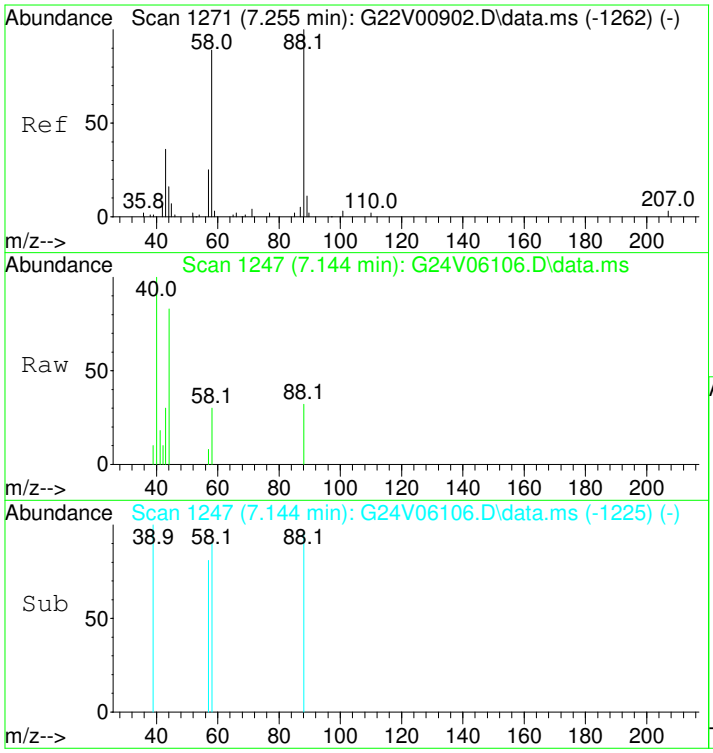


#57
Dibromomethane
Concen: 0.87 ug/L
RT: 7.051 min Scan# 1229
Delta R.T. -0.010 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 93 Resp: 8417

Ion	Ratio	Lower	Upper
93	100		
95	86.4	63.0	103.0
174	106.4	91.7	131.7

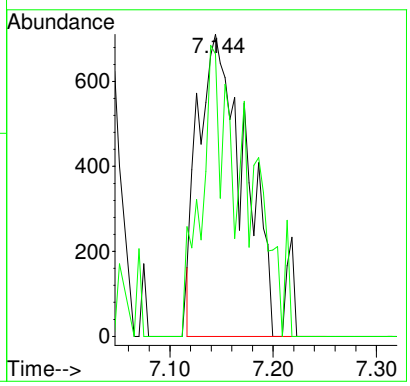


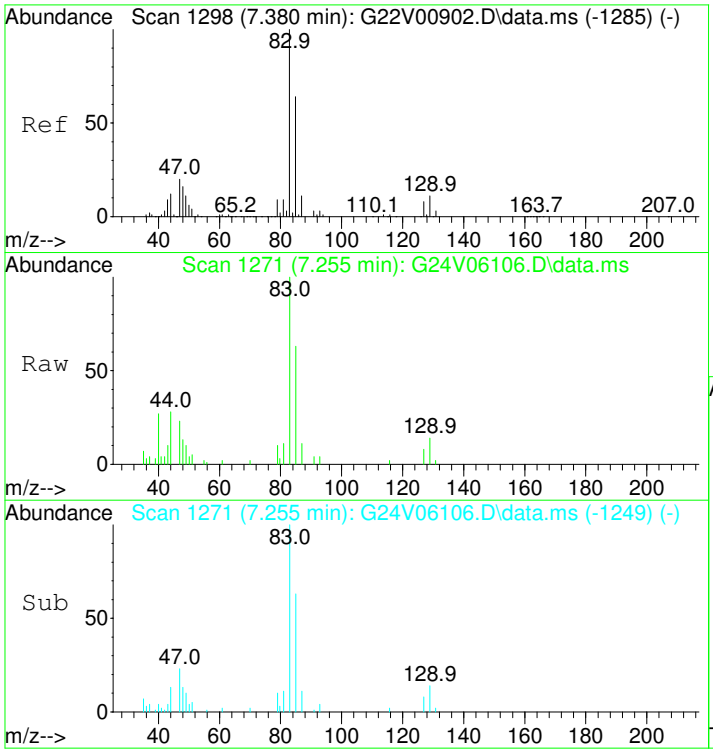


#58
1,4-Dioxane
Concen: 9.93 ug/L m
RT: 7.144 min Scan# 1247
Delta R.T. 0.014 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 88 Resp: 2314

Ion	Ratio	Lower	Upper
88	100		
58	36.9	51.4	91.4#

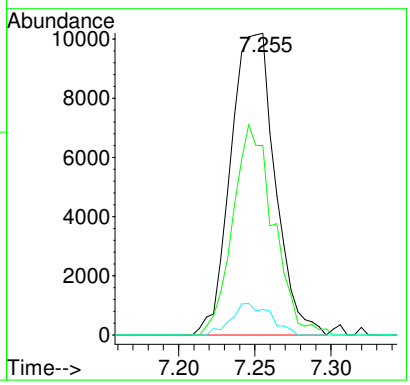


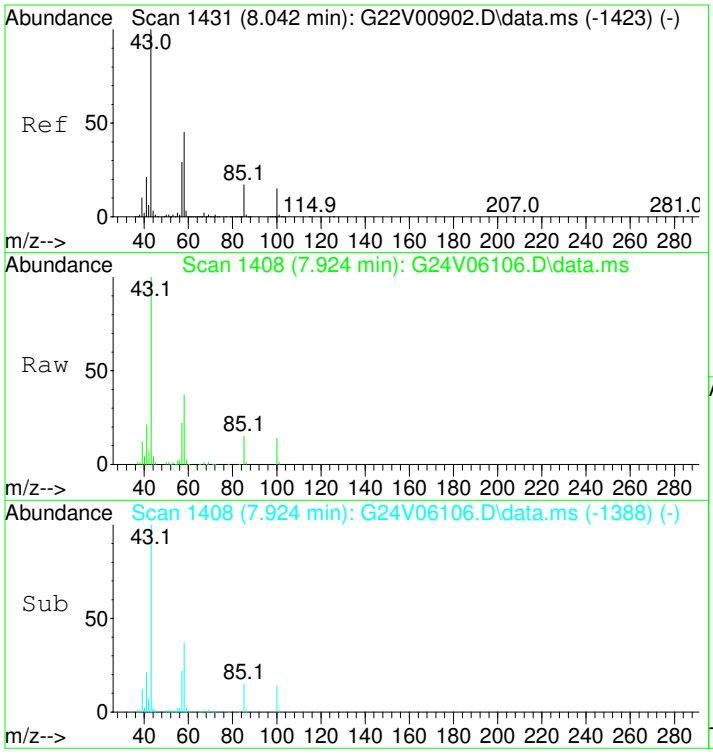


#59
Bromodichloromethane
Concen: 0.82 ug/L
RT: 7.255 min Scan# 1271
Delta R.T. 0.000 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 83 Resp: 20684

Ion	Ratio	Lower	Upper
83	100		
85	63.9	44.8	84.8
127	9.2	0.0	29.8

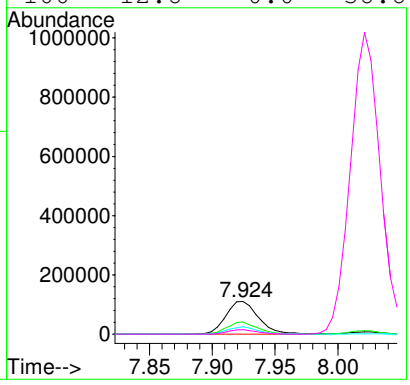


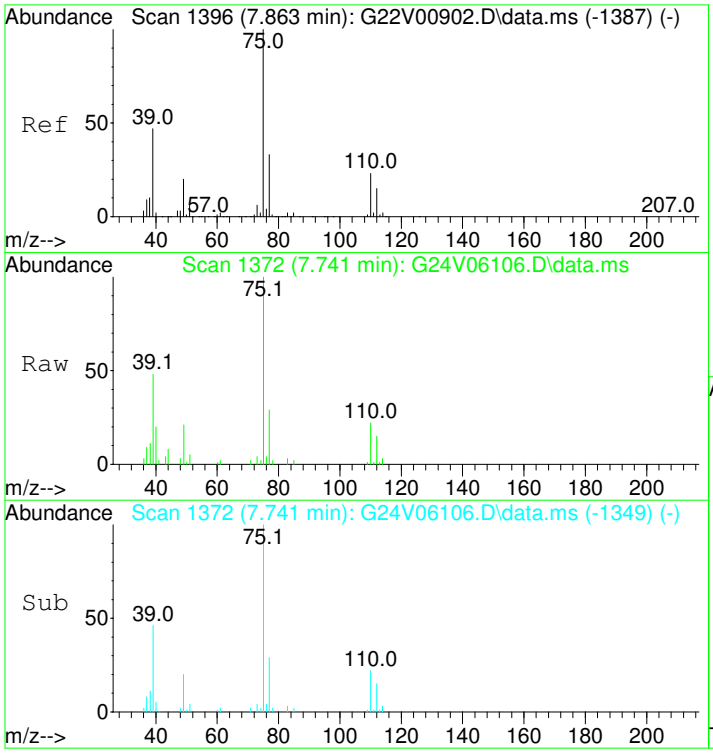


#61
MIBK
Concen: 10.59 ug/L
RT: 7.924 min Scan# 1408
Delta R.T. 0.000 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 43 Resp: 200881

Ion	Ratio	Lower	Upper
43	100		
58	35.1	25.1	65.1
57	21.1	7.2	47.2
100	12.8	0.0	38.8

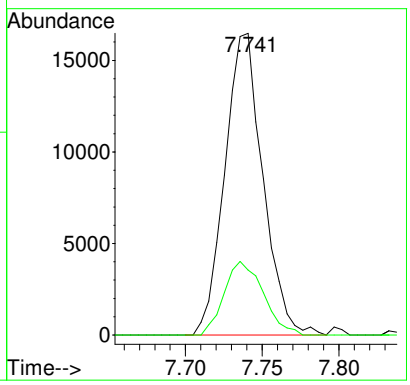


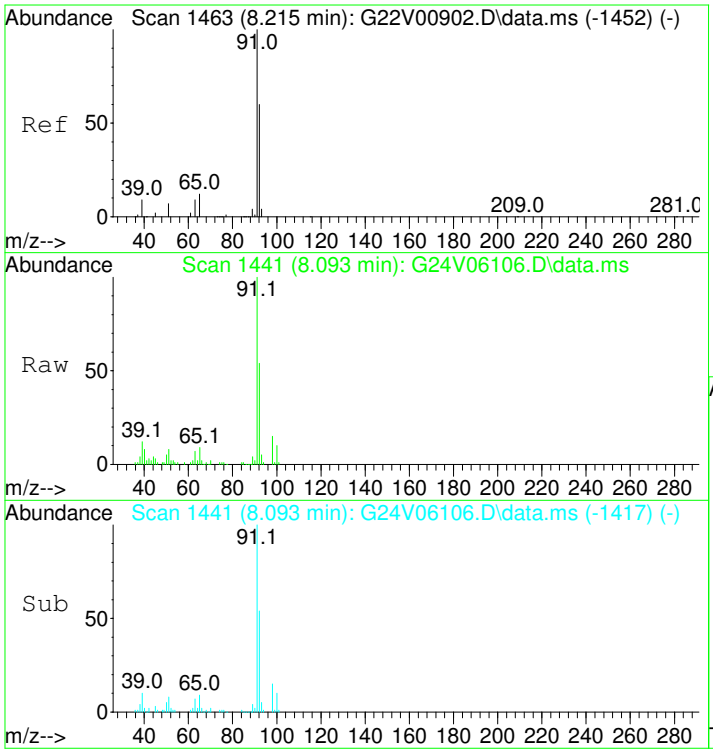


#62
cis-1,3-Dichloropropene
Concen: 0.87 ug/L
RT: 7.741 min Scan# 1372
Delta R.T. 0.001 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 75 Resp: 28468

Ion	Ratio	Lower	Upper
75	100		
110	25.1	4.3	44.3

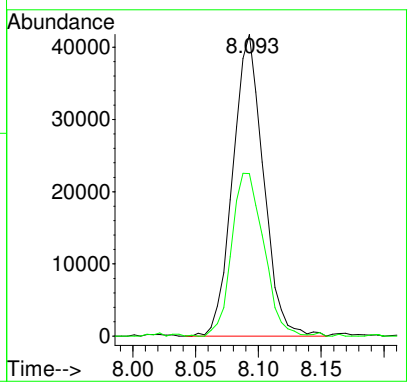


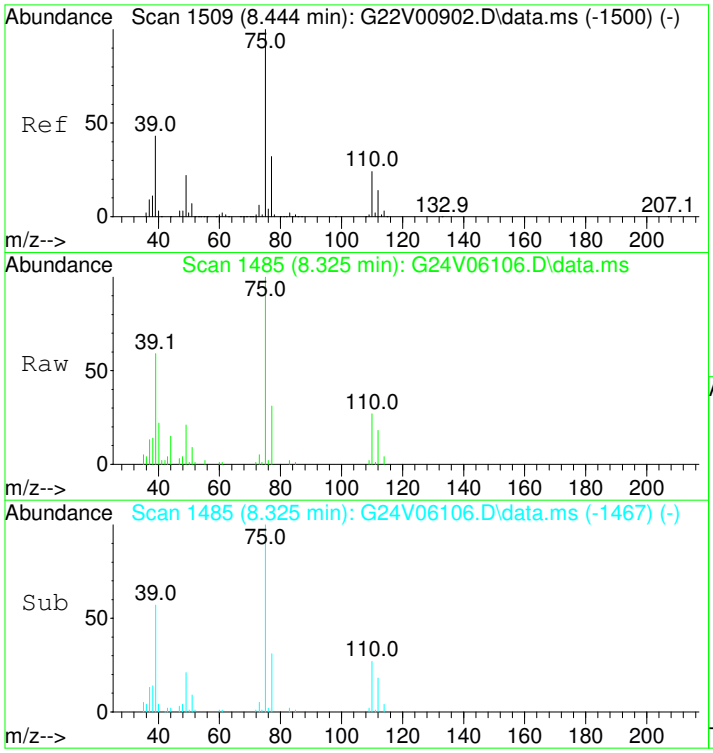


#63
Toluene
Concen: 0.97 ug/L
RT: 8.093 min Scan# 1441
Delta R.T. -0.000 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 91 Resp: 70959

Ion	Ratio	Lower	Upper
91	100		
92	56.5	38.3	78.3

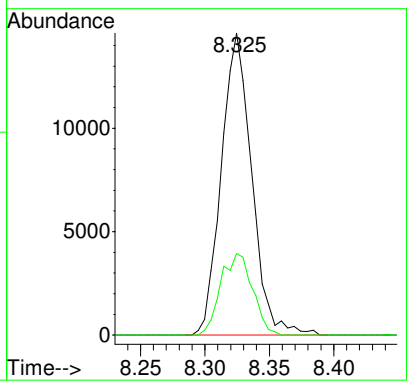


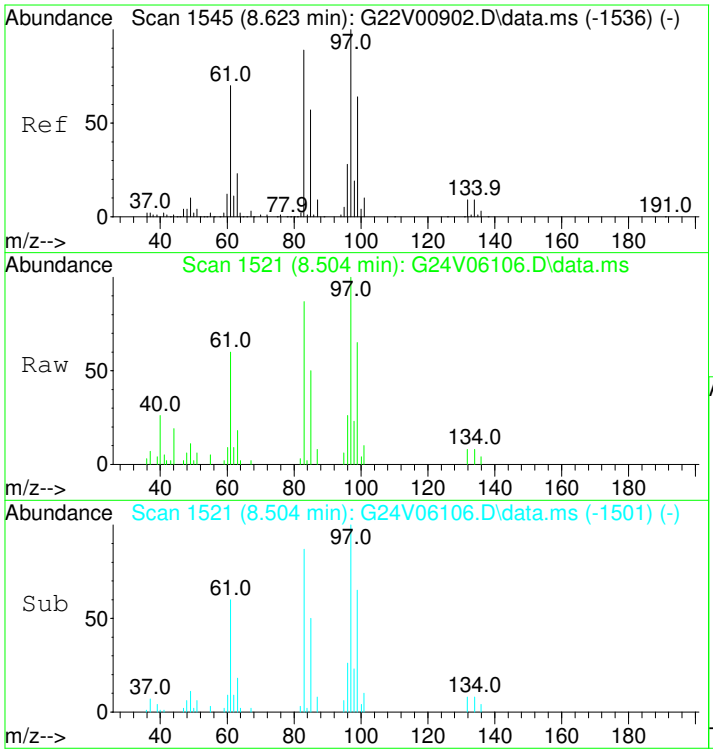


#64
trans-1,3-Dichloropropene
Concen: 0.85 ug/L
RT: 8.325 min Scan# 1485
Delta R.T. 0.001 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 75 Resp: 23999

Ion	Ratio	Lower	Upper
75	100		
110	28.2	5.6	45.6

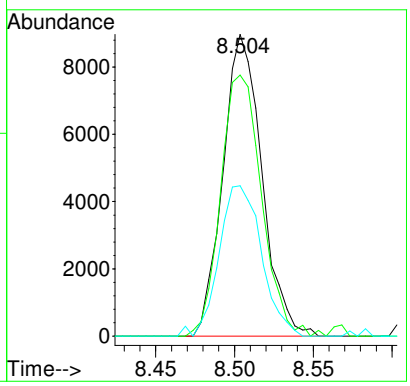


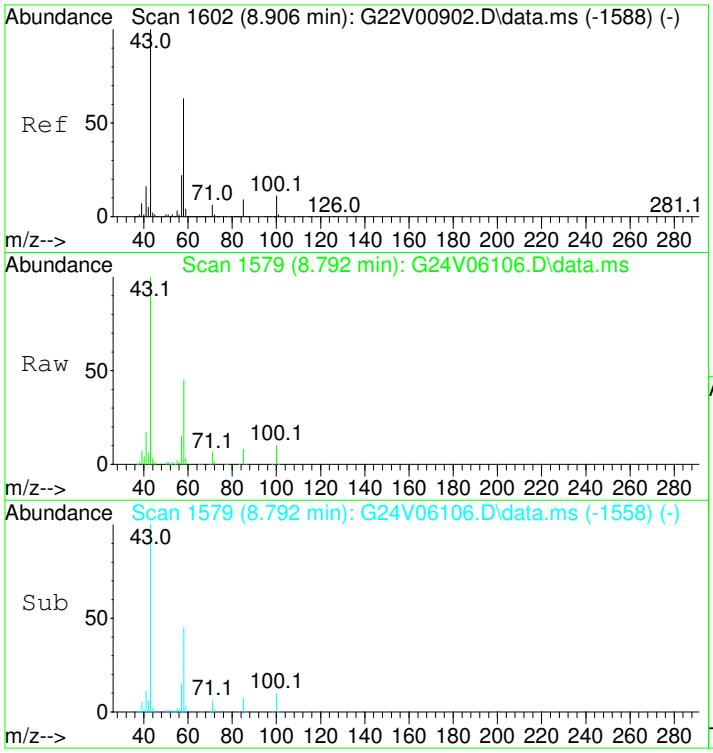


#66
1,1,2-Trichloroethane
Concen: 0.93 ug/L
RT: 8.504 min Scan# 1521
Delta R.T. 0.001 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 97 Resp: 15466

Ion	Ratio	Lower	Upper
97	100		
83	90.9	71.0	111.0
85	54.3	37.1	77.1

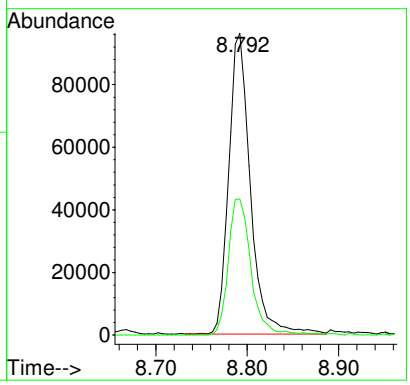


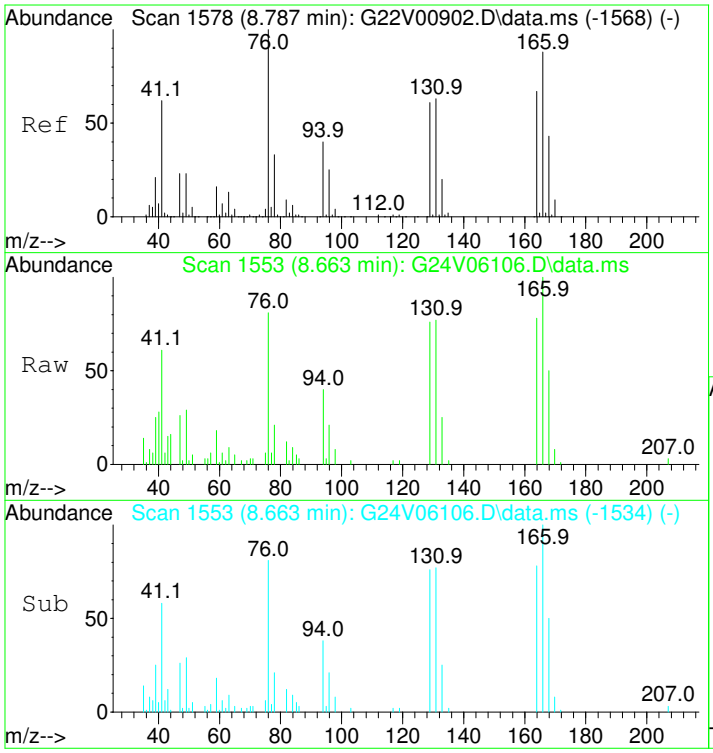


#67
2-Hexanone (MBK)
Concen: 10.90 ug/L
RT: 8.792 min Scan# 1579
Delta R.T. -0.000 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 43 Resp: 157507

Ion	Ratio	Lower	Upper
43	100		
58	47.0	42.0	82.0

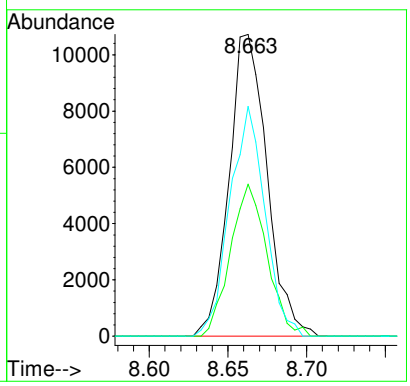


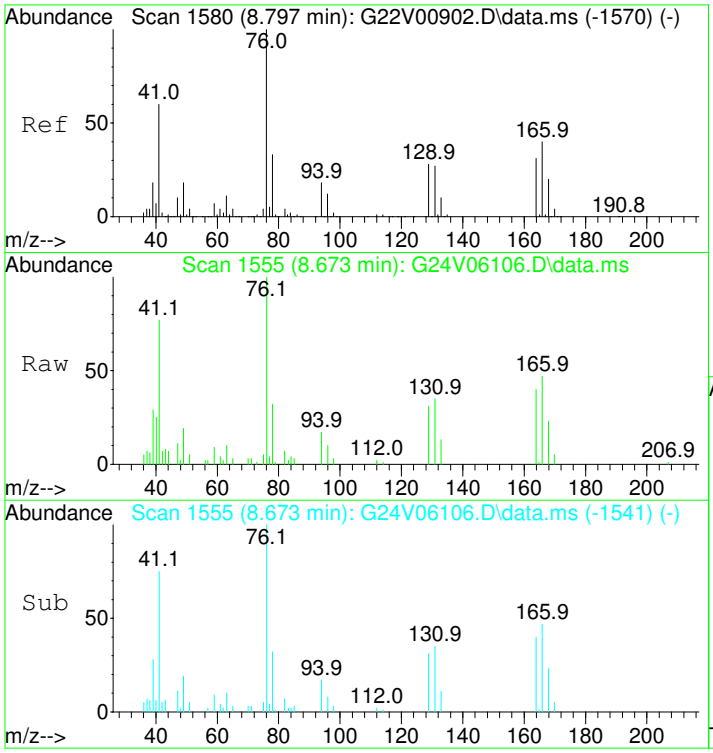


#68
Tetrachloroethene
Concen: 0.99 ug/L
RT: 8.663 min Scan# 1553
Delta R.T. 0.001 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion:166 Resp: 17996

Ion	Ratio	Lower	Upper
166	100		
168	48.7	27.0	67.0
129	70.6	50.1	90.1

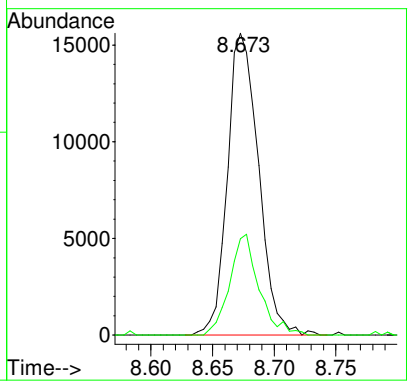


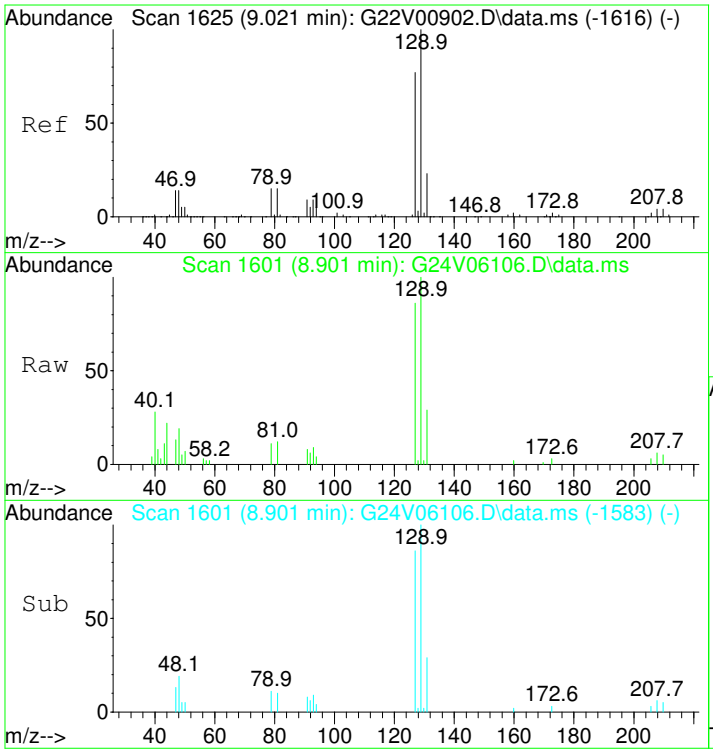


#69
1,3-Dichloropropane
Concen: 0.97 ug/L
RT: 8.673 min Scan# 1555
Delta R.T. 0.001 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 76 Resp: 27422

Ion	Ratio	Lower	Upper
76	100		
78	31.4	16.1	56.1

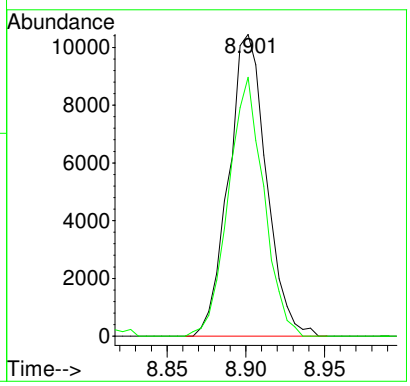


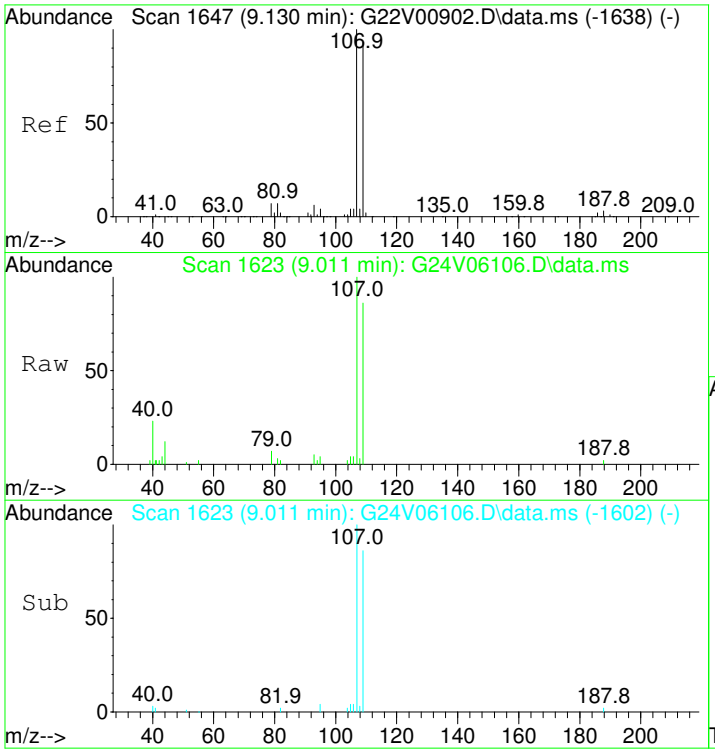


#70
Dibromochloromethane
Concen: 0.85 ug/L
RT: 8.901 min Scan# 1601
Delta R.T. 0.000 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion:129 Resp: 17444

Ion	Ratio	Lower	Upper
129	100		
127	80.2	51.4	91.4

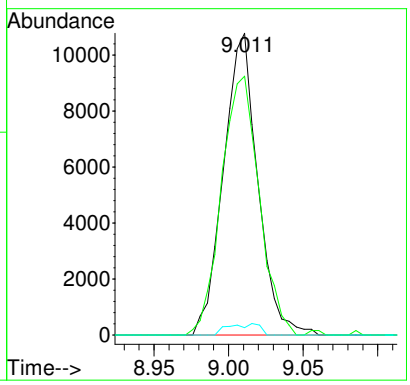


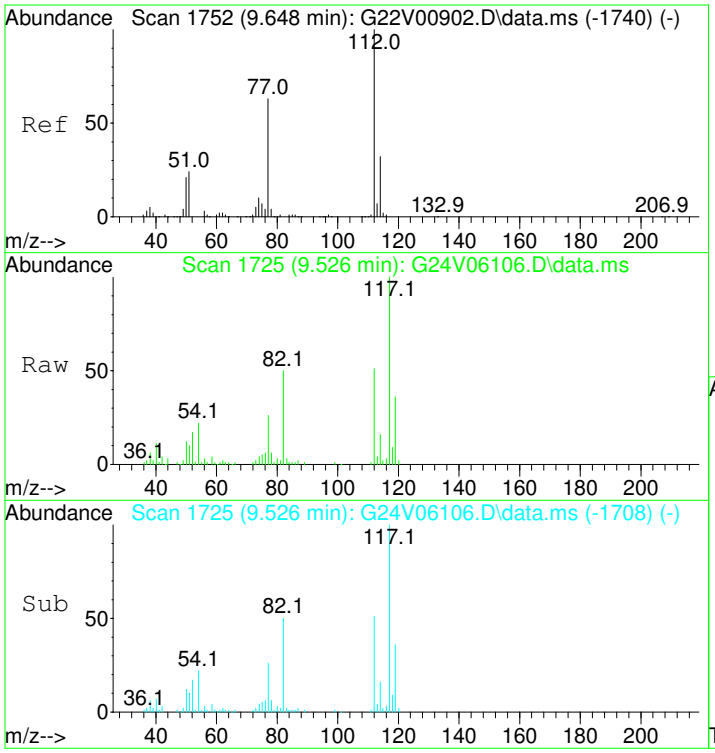


#71
1,2-Dibromoethane
Concen: 0.96 ug/L
RT: 9.011 min Scan# 1623
Delta R.T. 0.001 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion:107 Resp: 17275

Ion	Ratio	Lower	Upper
107	100		
109	94.0	76.5	116.5
188	3.5	0.0	24.1

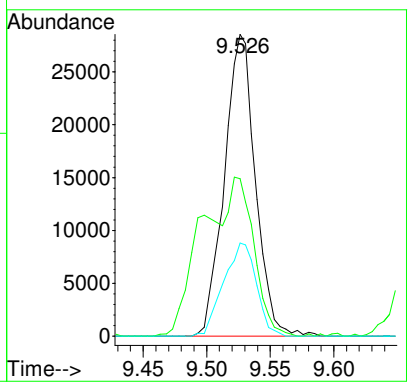


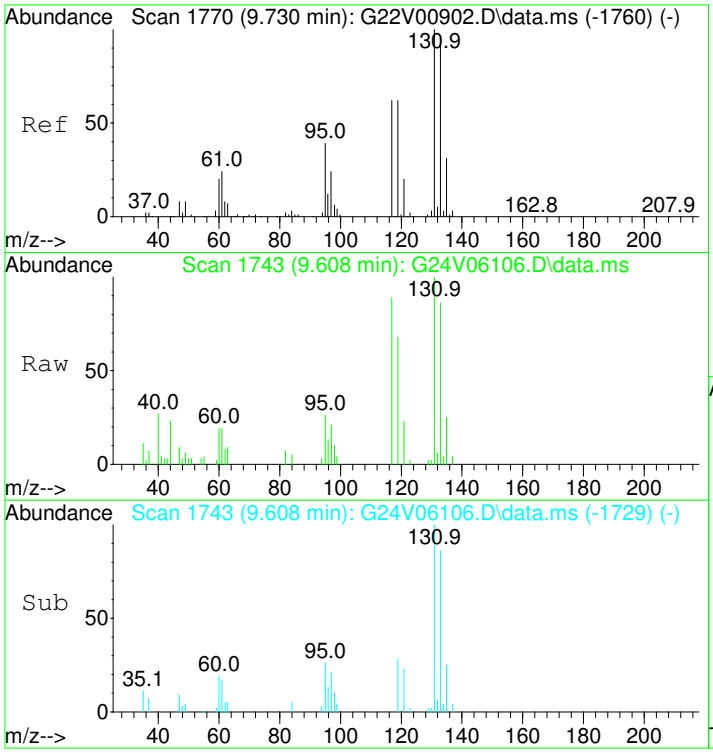


#74
Chlorobenzene
Concen: 0.98 ug/L
RT: 9.526 min Scan# 1725
Delta R.T. 0.000 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion:112 Resp: 49711

Ion	Ratio	Lower	Upper
112	100		
77	79.5	35.9	75.9#
114	33.2	12.4	52.4

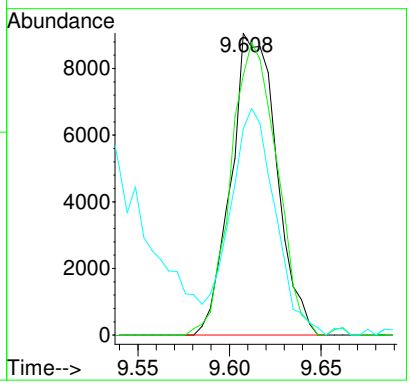


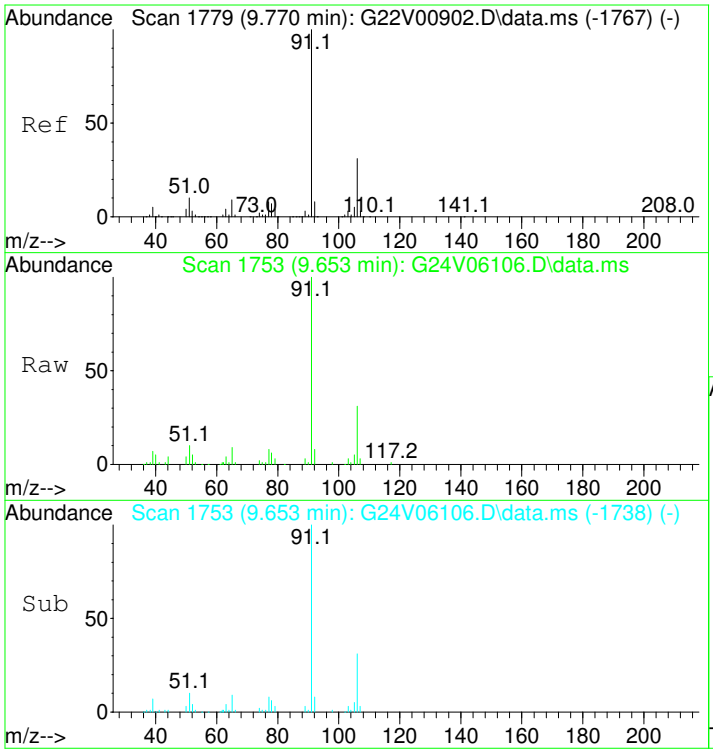


#75
1,1,1,2-Tetrachloroethane
Concen: 0.80 ug/L
RT: 9.608 min Scan# 1743
Delta R.T. -0.004 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion:131 Resp: 15608

Ion	Ratio	Lower	Upper
131	100		
133	98.3	75.0	115.0
119	74.6	50.2	90.2

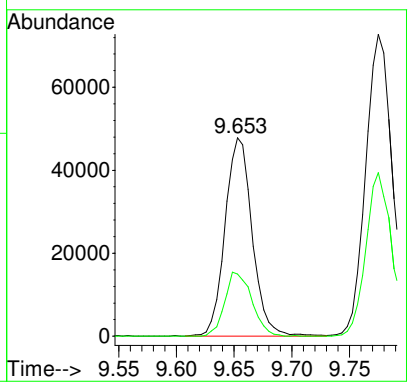


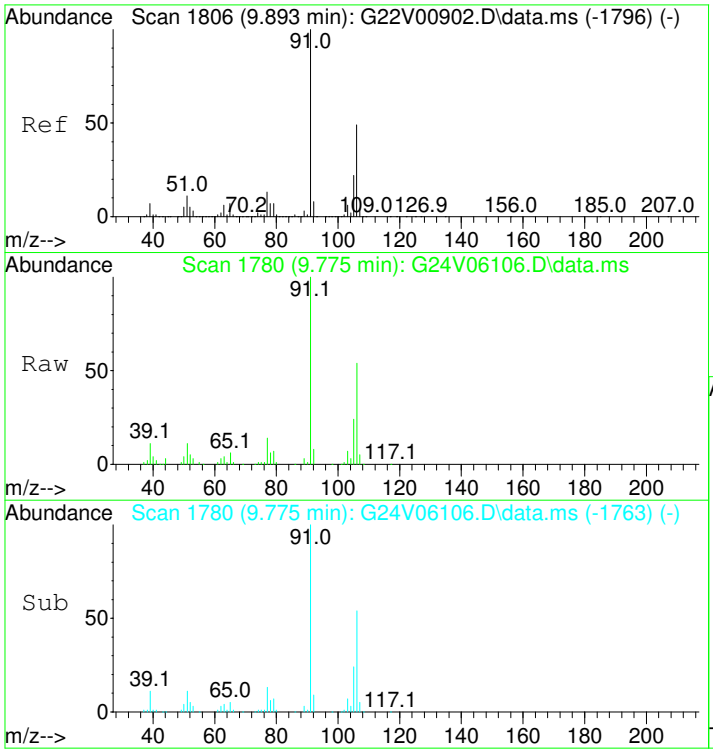


#76
Ethylbenzene
Concen: 0.96 ug/L
RT: 9.653 min Scan# 1753
Delta R.T. -0.000 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 91 Resp: 78384

Ion	Ratio	Lower	Upper
91	100		
106	32.0	12.0	52.0

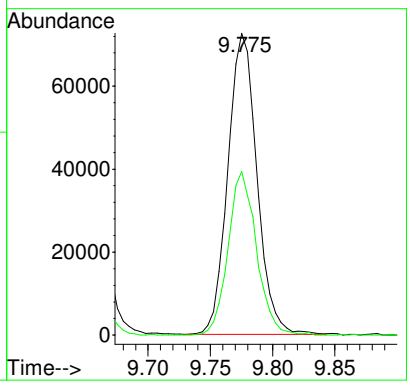


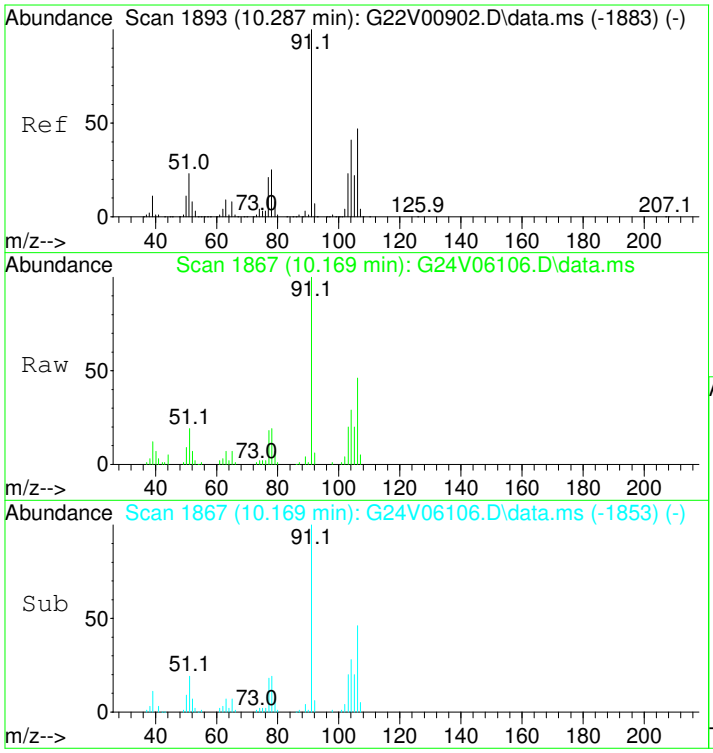


#77
m/p-Xylenes
Concen: 1.86 ug/L
RT: 9.775 min Scan# 1780
Delta R.T. 0.005 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 91 Resp: 117860

Ion	Ratio	Lower	Upper
91	100		
106	53.1	29.2	69.2

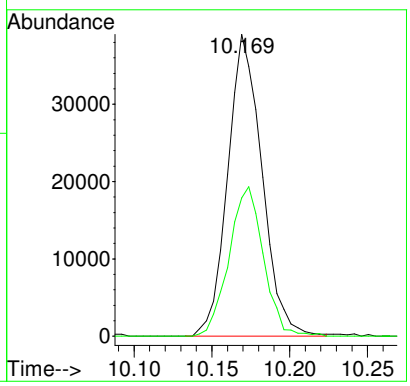


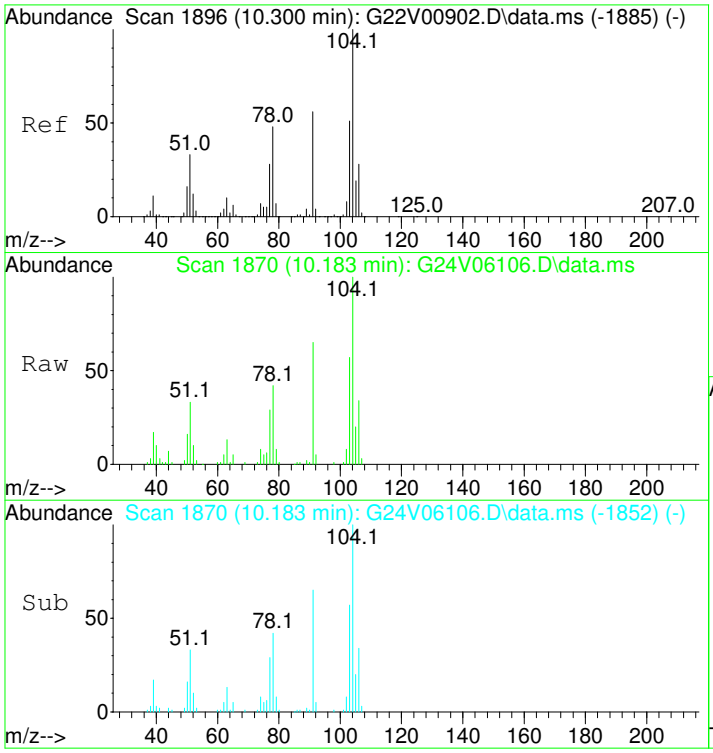


#78
o-Xylene
Concen: 0.88 ug/L
RT: 10.169 min Scan# 1867
Delta R.T. 0.000 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 91 Resp: 59783

Ion	Ratio	Lower	Upper
91	100		
106	49.8	26.4	66.4

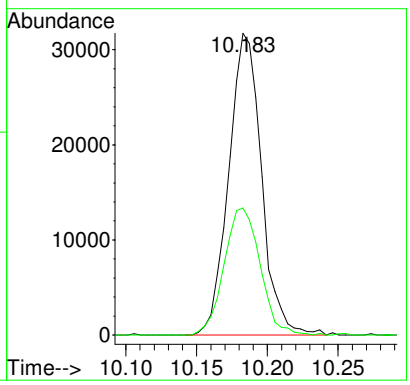


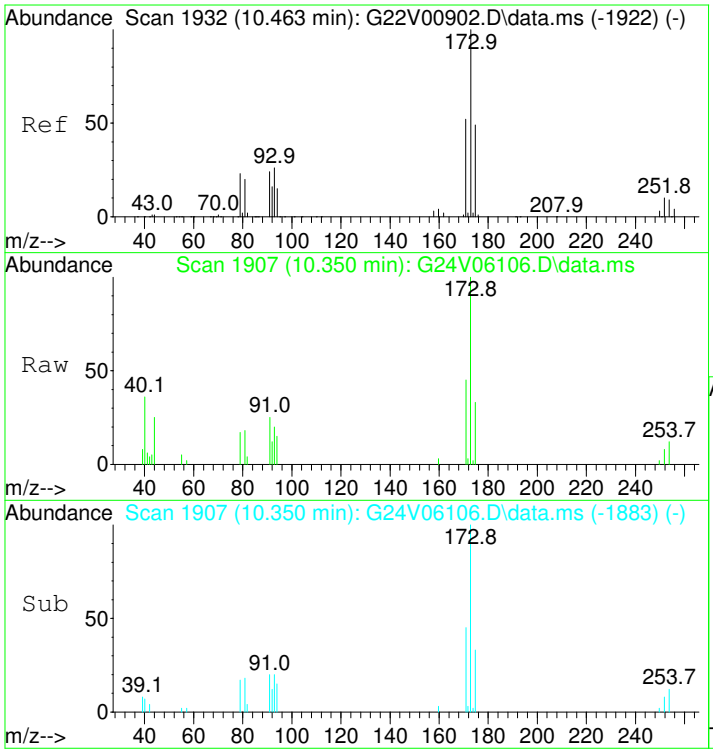


#79
Styrene
Concen: 0.89 ug/L
RT: 10.183 min Scan# 1870
Delta R.T. 0.005 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion:104 Resp: 51219

Ion	Ratio	Lower	Upper
104	100		
78	46.3	24.0	64.0

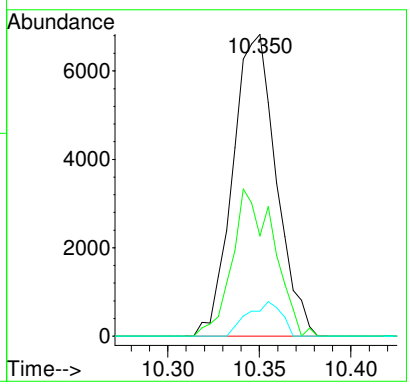


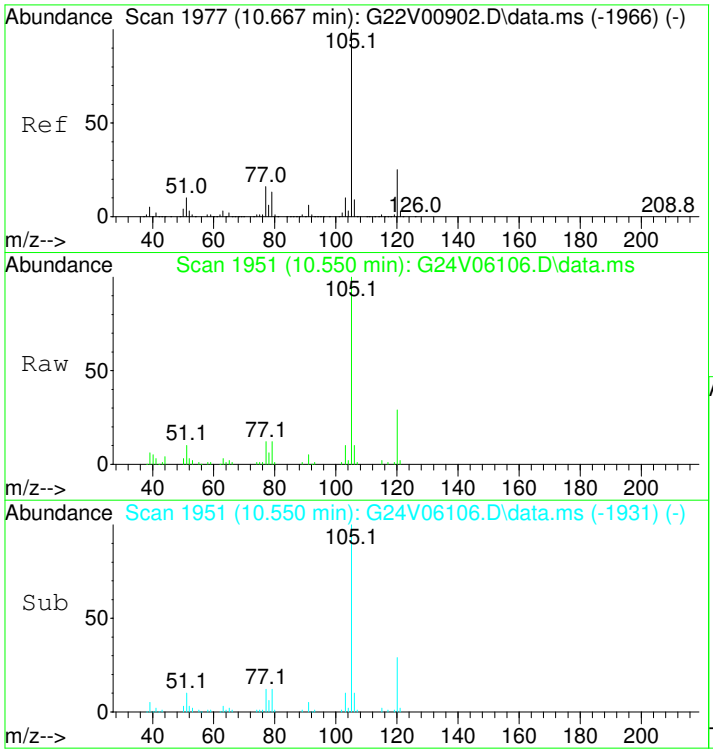


#80
Bromoform
Concen: 0.76 ug/L
RT: 10.350 min Scan# 1907
Delta R.T. 0.009 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion:173 Resp: 11254

Ion	Ratio	Lower	Upper
173	100		
175	46.8	30.4	70.4
252	8.9	0.0	30.3

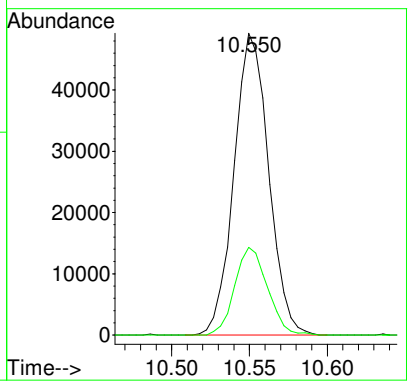


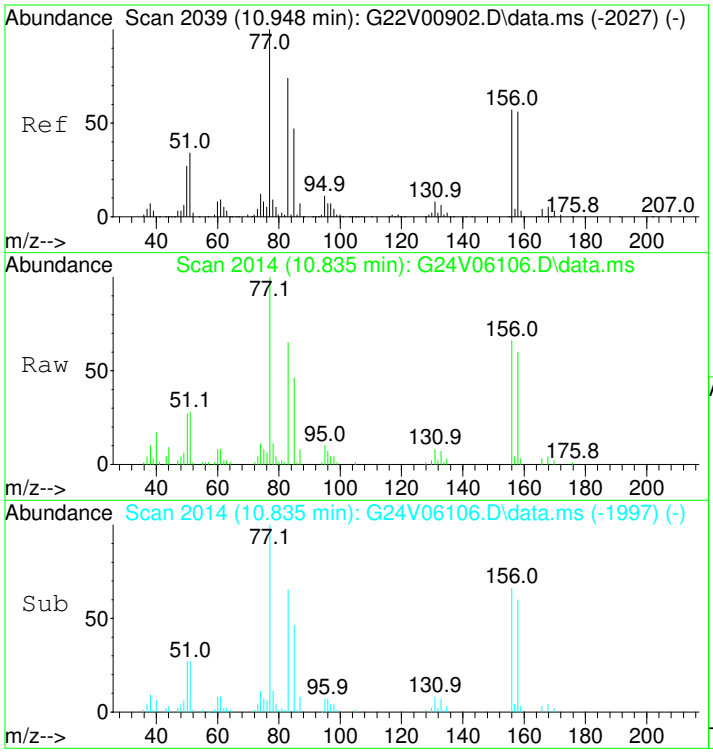


#81
Isopropylbenzene
Concen: 0.91 ug/L
RT: 10.550 min Scan# 1951
Delta R.T. 0.005 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion:105 Resp: 76311

Ion	Ratio	Lower	Upper
105	100		
120	27.5	6.1	46.1

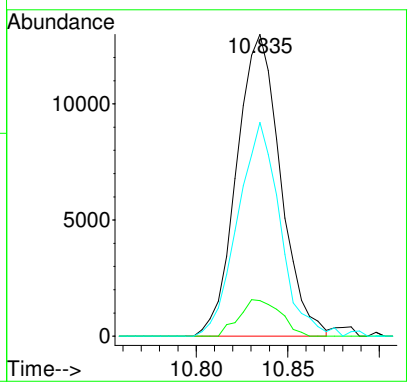


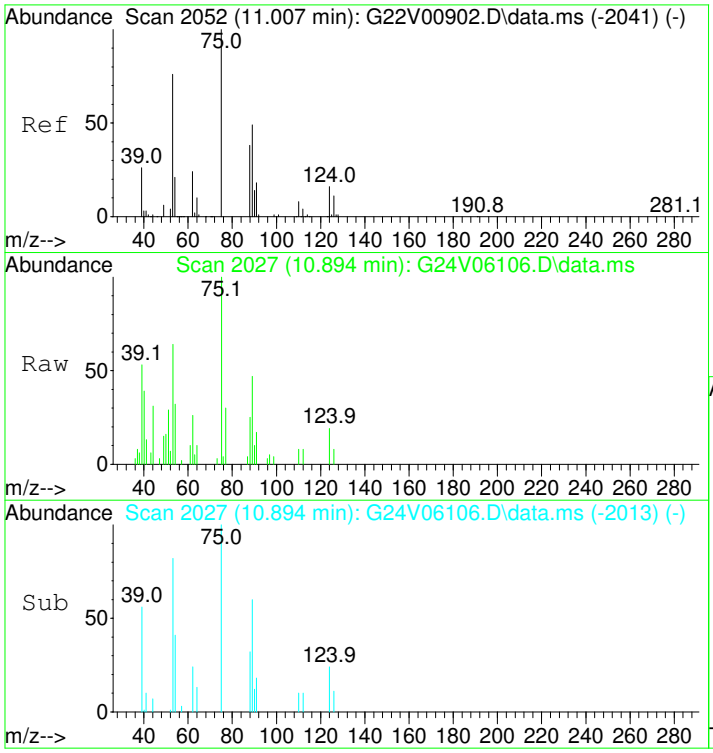


#83
1,1,2,2-Tetrachloroethane
Concen: 0.91 ug/L
RT: 10.835 min Scan# 2014
Delta R.T. 0.010 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 83 Resp: 21547

Ion	Ratio	Lower	Upper
83	100		
131	11.4	0.0	30.0
85	67.9	44.7	84.7

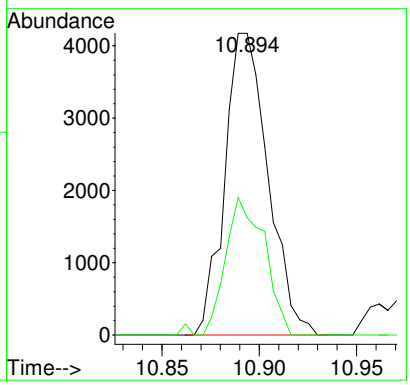


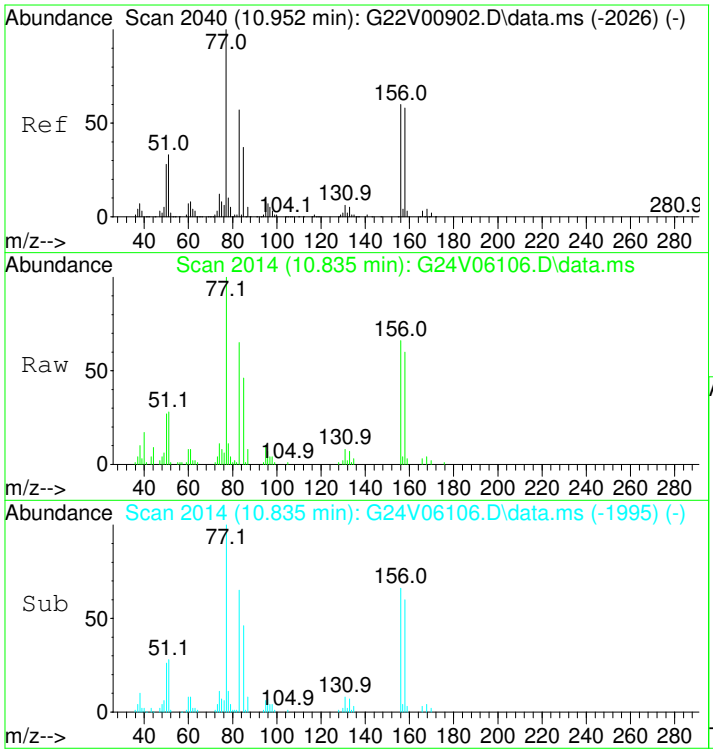


#84
1,4-Dichloro-2-butene(trans)
Concen: 0.68 ug/L
RT: 10.894 min Scan# 2027
Delta R.T. 0.005 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 53 Resp: 6454

Ion	Ratio	Lower	Upper
53	100		
88	40.8	32.5	72.5

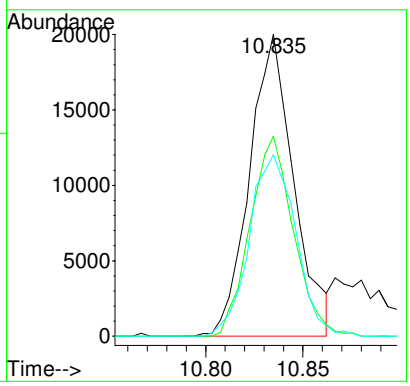


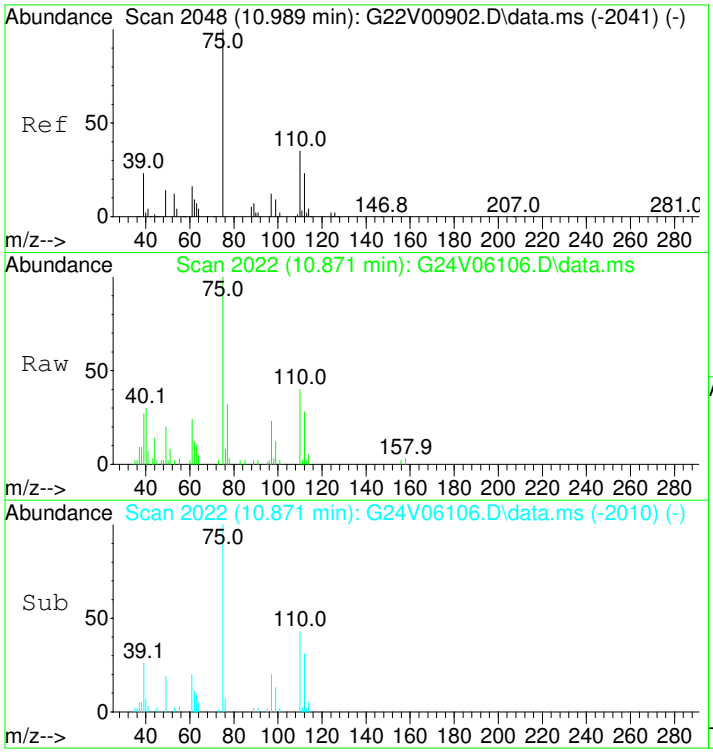


#85
Bromobenzene
Concen: 0.91 ug/L
RT: 10.835 min Scan# 2014
Delta R.T. 0.005 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 77 Resp: 31570

Ion	Ratio	Lower	Upper
77	100		
156	65.2	52.9	92.9
158	63.3	49.1	89.1

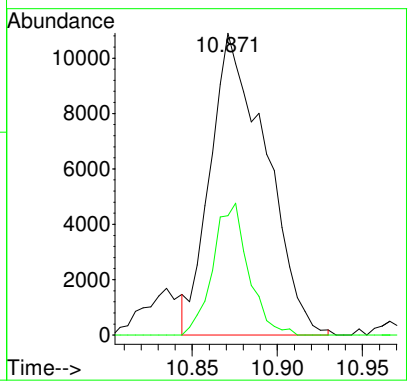


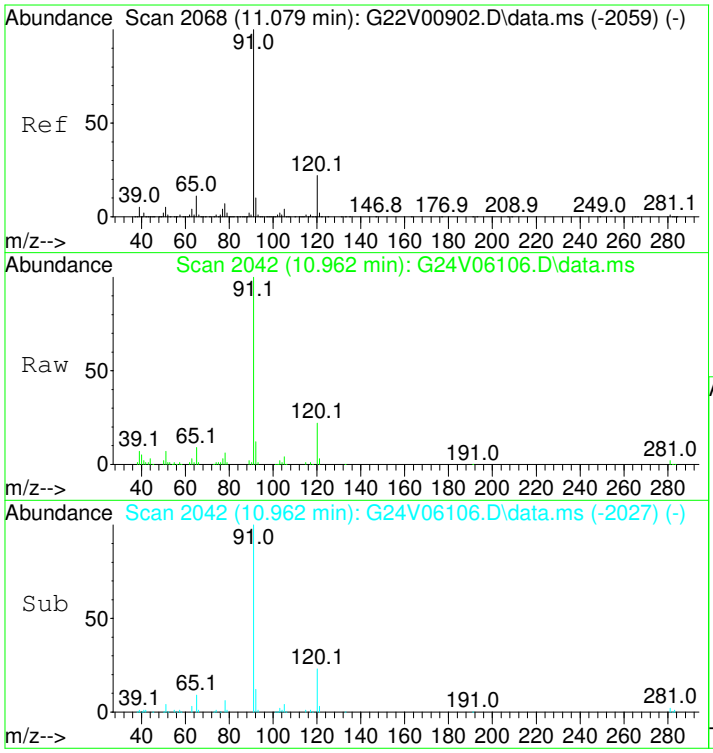


#86
1,2,3-Trichloropropane
Concen: 0.91 ug/L m
RT: 10.871 min Scan# 2022
Delta R.T. 0.005 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 75 Resp: 24716

Ion	Ratio	Lower	Upper
75	100		
110	27.9	15.8	55.8

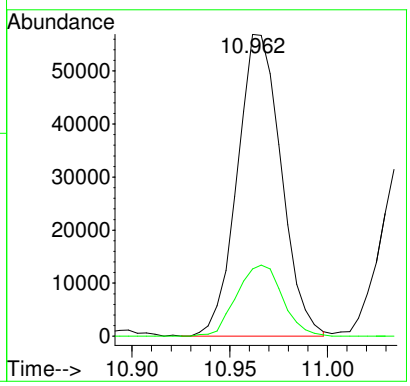


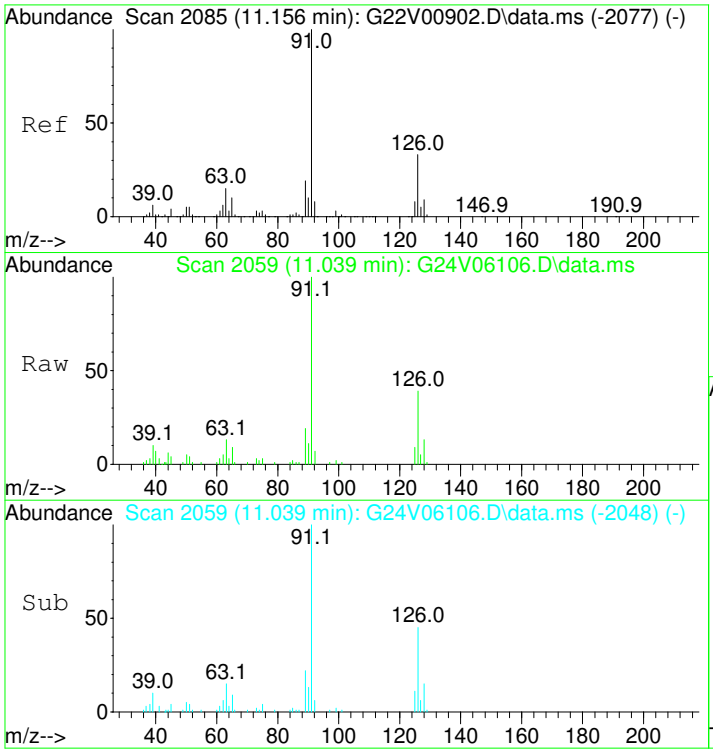


#87
n-Propylbenzene
Concen: 0.93 ug/L m
RT: 10.962 min Scan# 2042
Delta R.T. 0.005 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 91 Resp: 88990

Ion	Ratio	Lower	Upper
91	100		
120	23.9	3.7	43.7

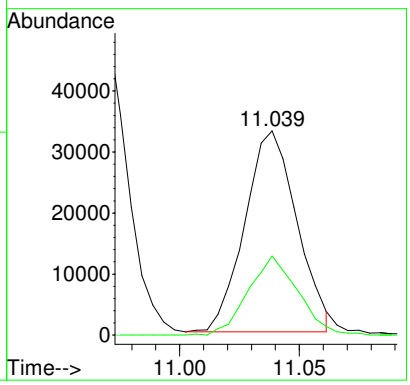


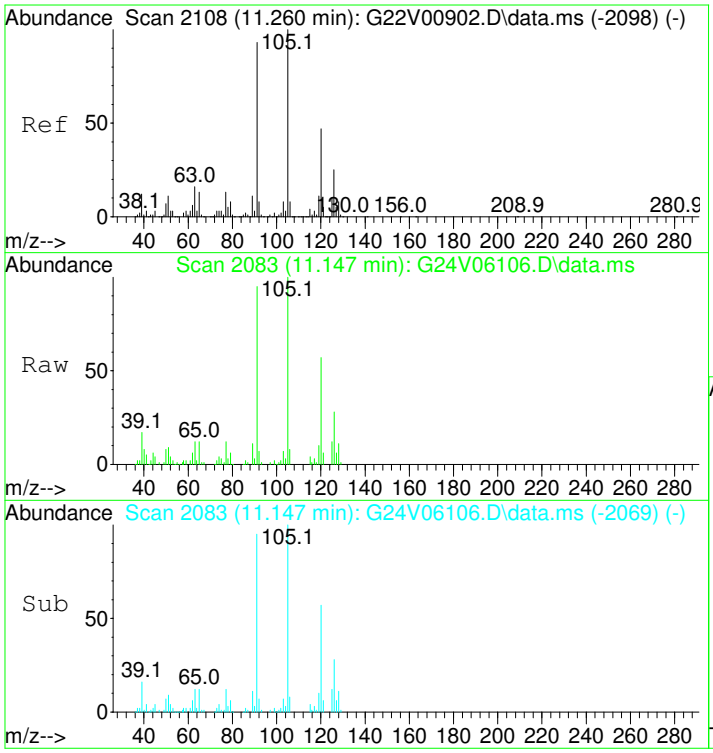


#88
2-Chlorotoluene
Concen: 0.87 ug/L
RT: 11.039 min Scan# 2059
Delta R.T. 0.005 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 91 Resp: 49838

Ion	Ratio	Lower	Upper
91	100		
126	36.9	14.0	54.0

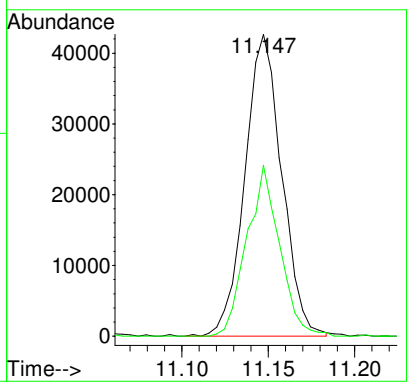


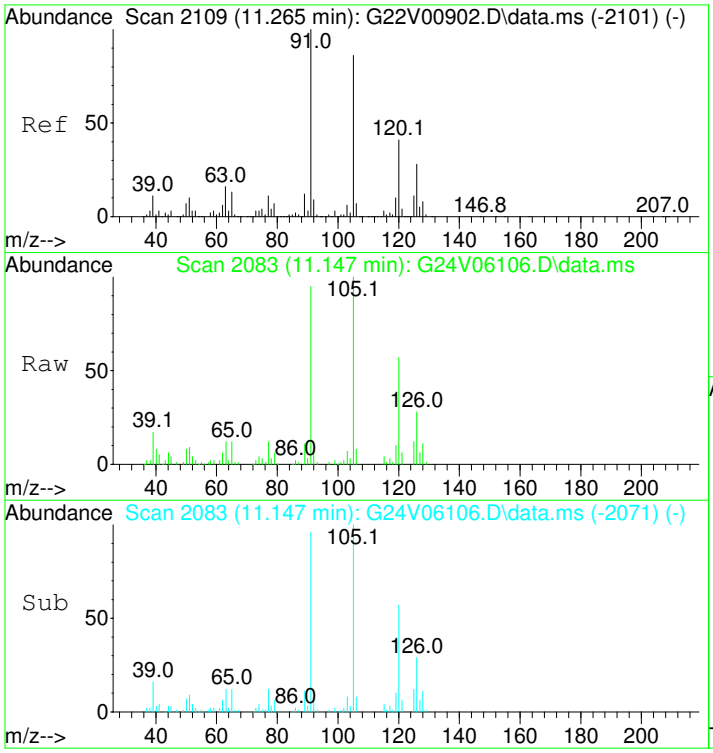


#89
1,3,5-Trimethylbenzene
Concen: 0.89 ug/L
RT: 11.147 min Scan# 2083
Delta R.T. 0.009 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion:105 Resp: 63325

Ion	Ratio	Lower	Upper
105	100		
120	50.4	29.9	69.9

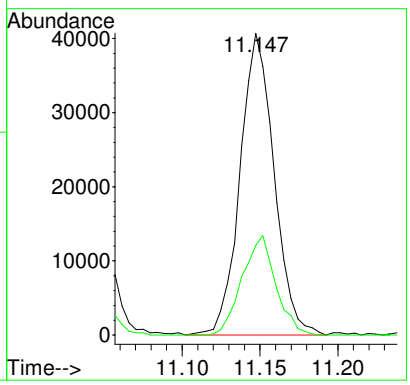


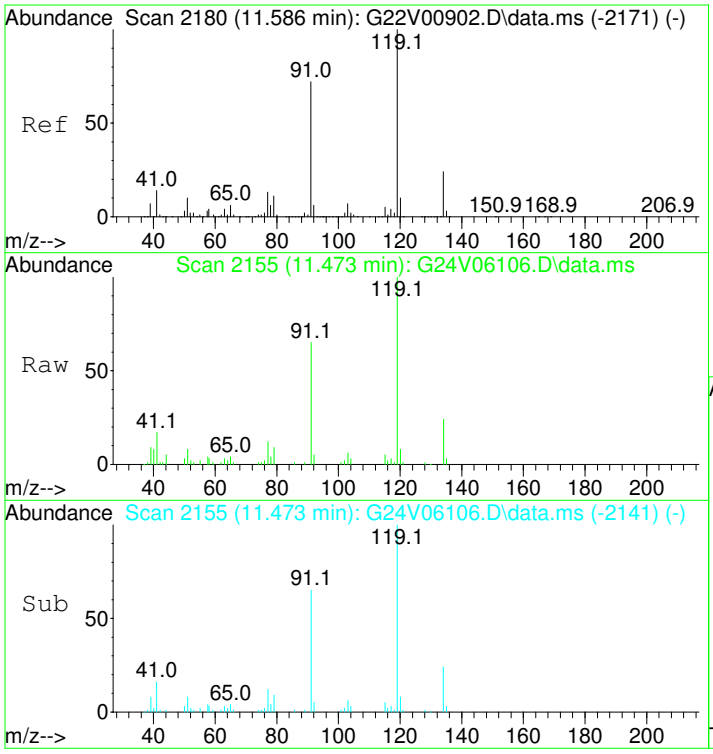


#90
4-Chlorotoluene
Concen: 0.89 ug/L
RT: 11.147 min Scan# 2083
Delta R.T. 0.005 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 91 Resp: 61891

Ion	Ratio	Lower	Upper
91	100		
126	32.7	13.8	53.8

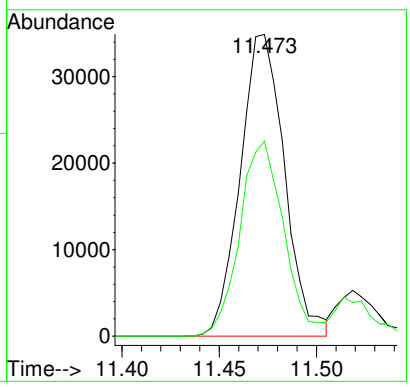


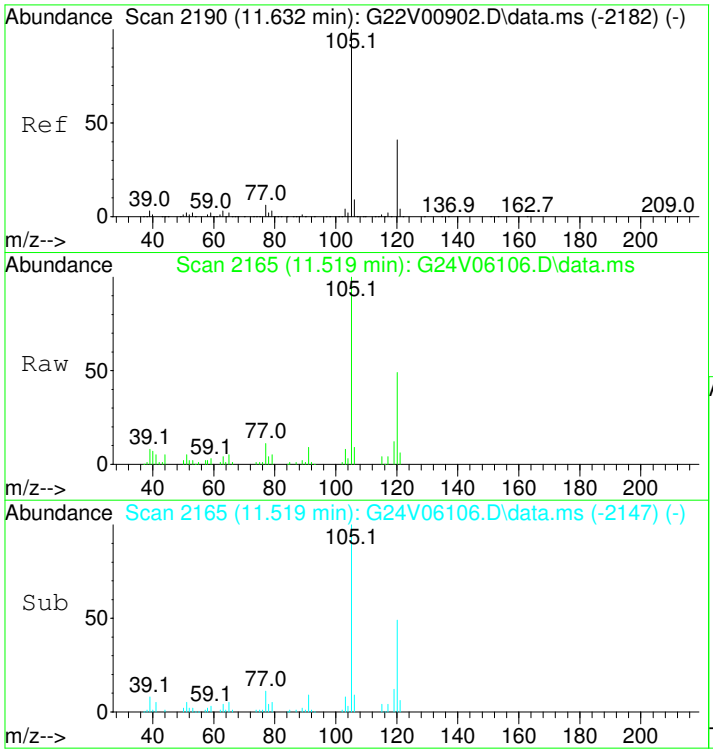


#92
tert-Butylbenzene
Concen: 0.85 ug/L
RT: 11.473 min Scan# 2155
Delta R.T. 0.009 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion:119 Resp: 55290

Ion	Ratio	Lower	Upper
119	100		
91	63.5	43.2	83.2

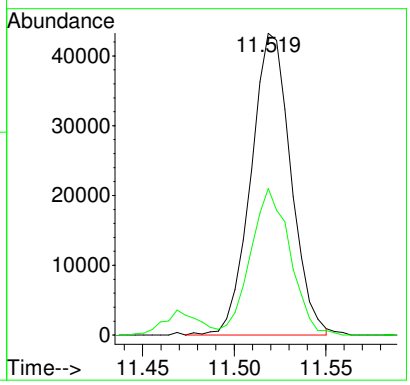


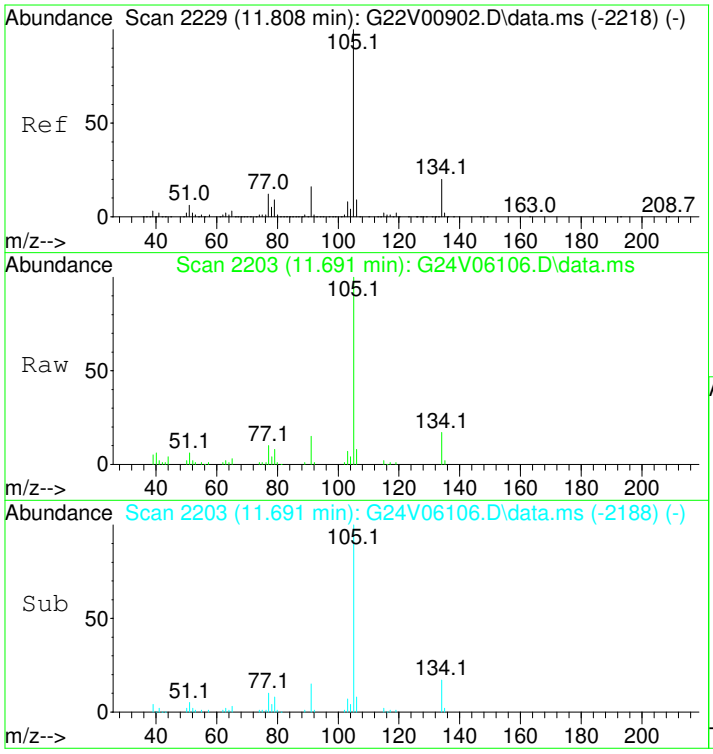


#93
1,2,4-Trimethylbenzene
Concen: 0.85 ug/L
RT: 11.519 min Scan# 2165
Delta R.T. 0.005 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion:105 Resp: 65420

Ion	Ratio	Lower	Upper
105	100		
120	45.2	33.2	73.2

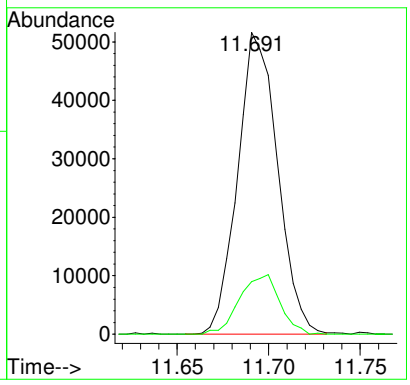


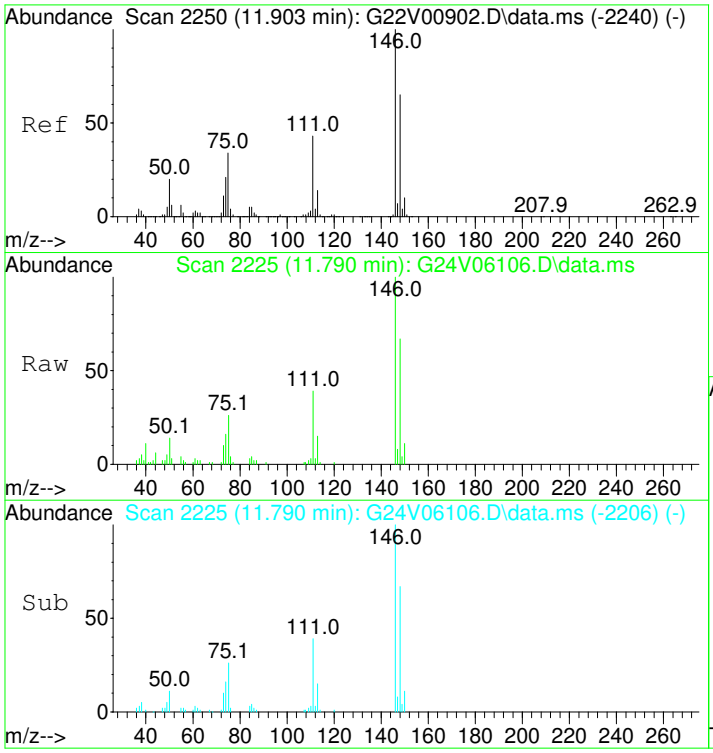


#94
sec-Butylbenzene
Concen: 0.86 ug/L
RT: 11.691 min Scan# 2203
Delta R.T. 0.005 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion:105 Resp: 78138

Ion	Ratio	Lower	Upper
105	100		
134	19.8	0.5	40.5

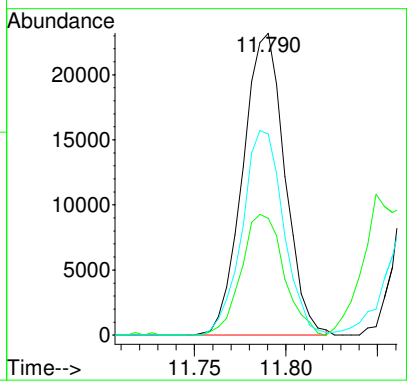


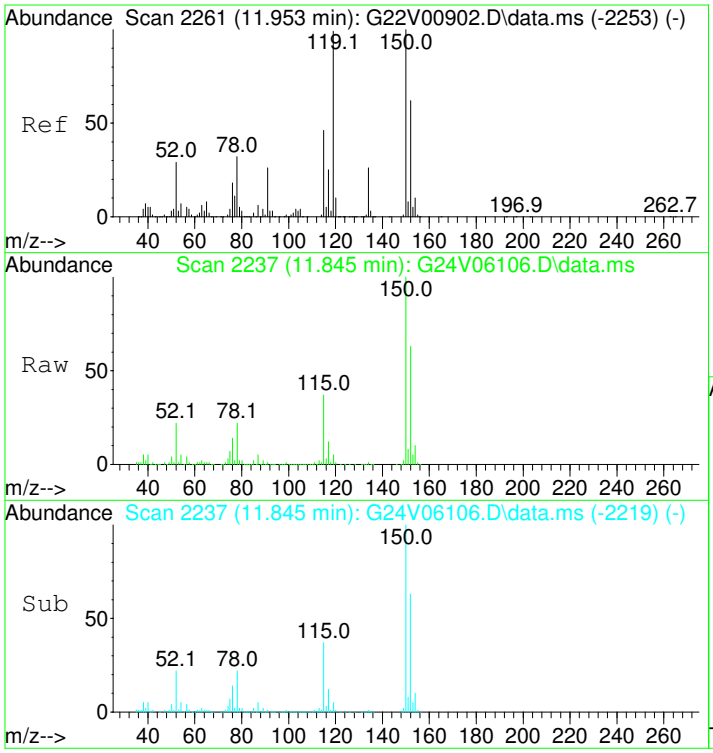


#95
1,3-Dichlorobenzene
Concen: 0.82 ug/L
RT: 11.790 min Scan# 2225
Delta R.T. 0.009 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion:146 Resp: 36964

Ion	Ratio	Lower	Upper
146	100		
111	40.5	18.3	58.3
148	66.9	42.1	82.1

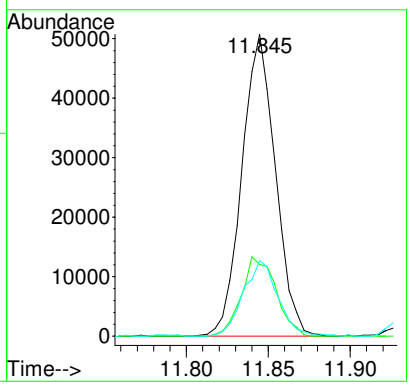


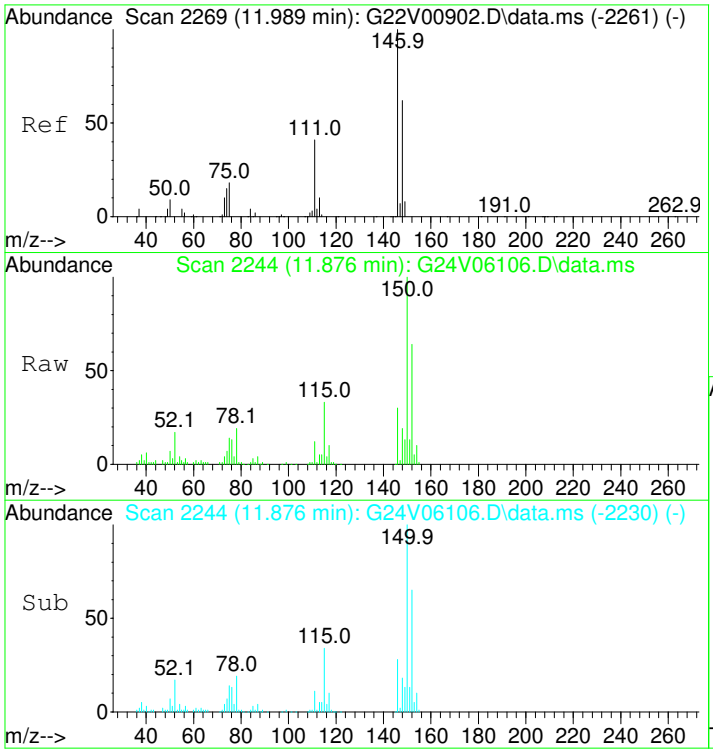


#96
p-Isopropyltoluene
Concen: 0.88 ug/L
RT: 11.845 min Scan# 2237
Delta R.T. 0.010 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion:119 Resp: 72003

Ion	Ratio	Lower	Upper
119	100		
134	27.1	6.2	46.2
91	26.0	2.5	42.5

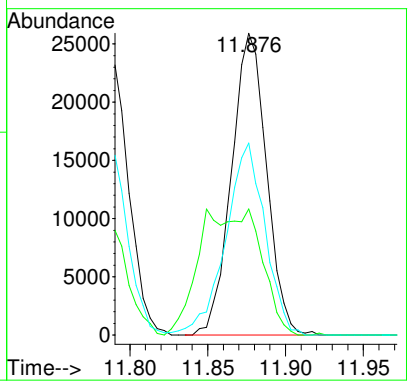


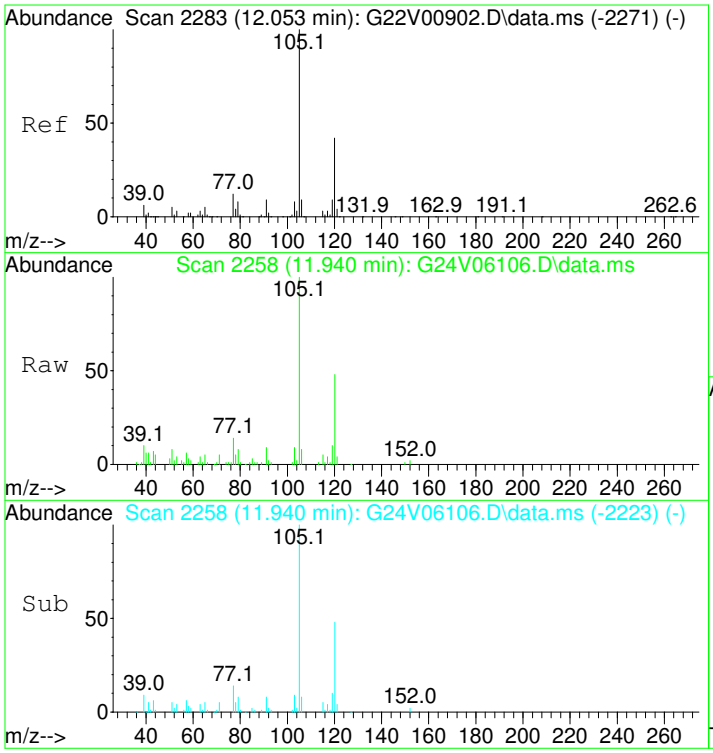


#97
1,4-Dichlorobenzene
Concen: 0.91 ug/L
RT: 11.876 min Scan# 2244
Delta R.T. 0.009 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion:146 Resp: 40638

Ion	Ratio	Lower	Upper
146	100		
111	0.0	16.8	56.8#
148	71.4	43.5	83.5

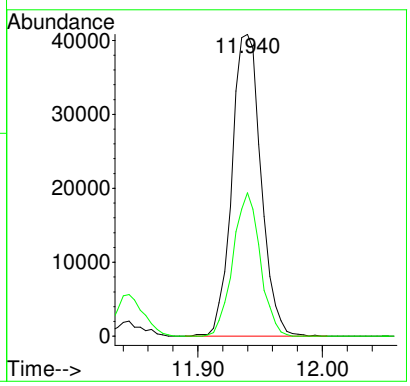


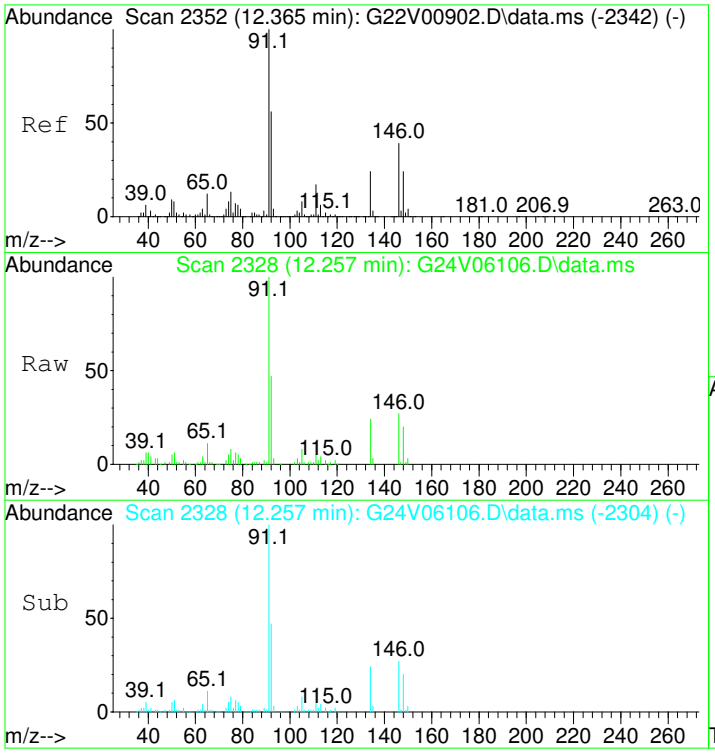


#98
1,2,3-Trimethylbenzene
Concen: 0.82 ug/L
RT: 11.940 min Scan# 2258
Delta R.T. 0.010 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion:105 Resp: 66294

Ion	Ratio	Lower	Upper
105	100		
120	44.4	0.0	20.0#

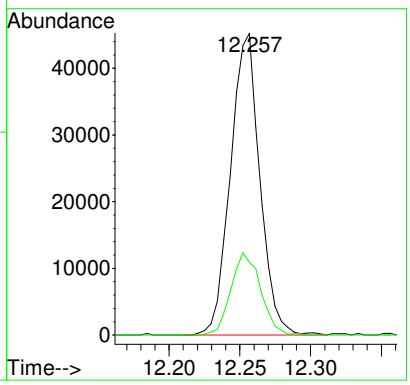


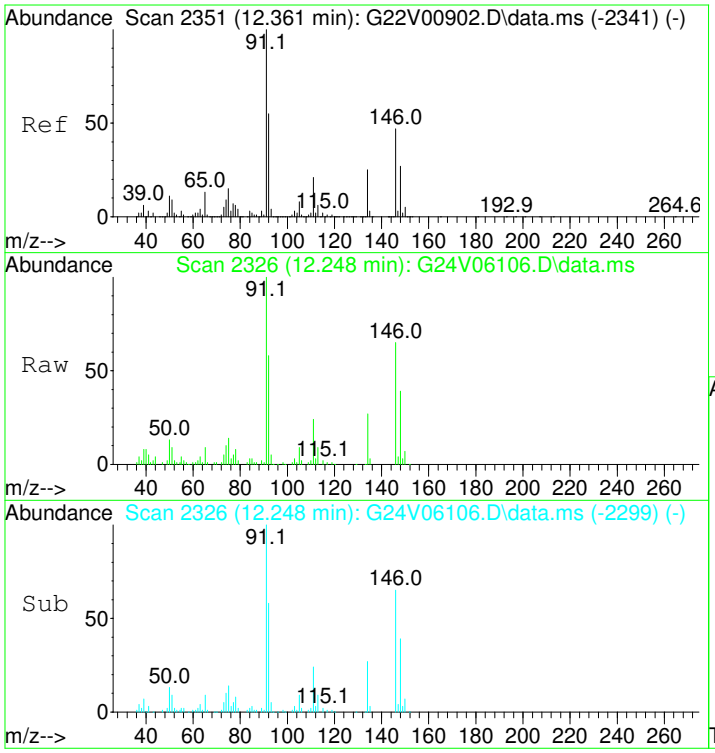


#99
n-Butylbenzene
Concen: 0.86 ug/L
RT: 12.257 min Scan# 2328
Delta R.T. 0.014 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 91 Resp: 65460

Ion	Ratio	Lower	Upper
91	100		
134	27.5	7.4	47.4

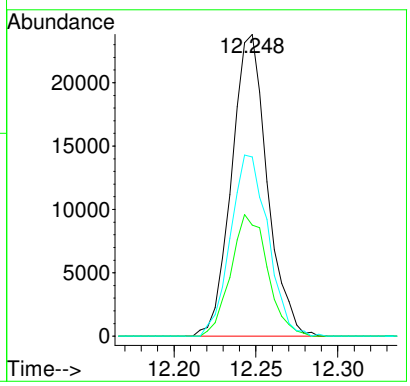




#100
1,2-Dichlorobenzene
Concen: 0.86 ug/L
RT: 12.248 min Scan# 2326
Delta R.T. 0.010 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion:146 Resp: 36002

Ion	Ratio	Lower	Upper
146	100		
111	41.5	20.1	60.1
148	63.3	44.7	84.7



Quantitation Report (QT Reviewed)

Data Path : X:\1\data\G030124\
Data File : G24V06106.D
Acq On : 1 Mar 2024 9:30 am
Operator :
Sample : 8260 STD 1.0PPB
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 01 10:09:36 2024
Quant Method : X:\1\methods\GS071223-TAEE-2ND-IS.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Thu Feb 22 14:13:34 2024
Response via : Initial Calibration

#101
1,2-Dibromo-3-chloropropane
Concen: 0.65 ug/L
RT: 13.017 min Scan# 2496
Delta R.T. 0.009 min
Lab File: G24V06106.D
Acq: 1 Mar 2024 9:30 am

Tgt Ion: 75 Resp: 3915

Ion	Ratio	Lower	Upper
M75	100		
155	110.1	76.4	116.4
157	148.3	99.5	139.5#

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.574	168	1475118	30.00	ug/L	0.00
49) 1,4-Difluorobenzene ...	6.420	114	2654990	30.00	ug/L	0.00
72) Chlorobenzene-d5 ISTD	9.498	82	994962	30.00	ug/L #	0.00
91) 1,4-Dichlorobenzene-d4...	11.854	152	1317798	30.00	ug/L	0.00
Sub System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	5.866	65	600790	22.17	ug/L	0.00
Spiked Amount 25.000	Range 70 - 130			Recovery = 88.68%		
50) Toluene SS	8.021	98	2587317	24.99	ug/L	0.00
Spiked Amount 25.000	Range 70 - 130			Recovery = 99.95%		
73) 4-Bromofluorobenzene SS	10.690	95	974097	23.18	ug/L	0.00
Spiked Amount 25.000	Range 70 - 130			Recovery = 92.72%		
Target Compounds						Qvalue
3) Dichlorodifluoromethane	1.237	85	15509	0.98	ug/L	93
4) Difluorochloromethane	1.257	51	26196	0.81	ug/L	97
5) Chloromethane	1.399	50	40381	1.95	ug/L	99
6) Vinyl chloride	1.470	62	31486	1.69	ug/L	88
7) Bromomethane	1.733	94	16810	3.17	ug/L	88
8) Chloroethane	1.825	64	16902	2.34	ug/L	87
10) Fluorodichloromethane	2.002	67	49410	2.13	ug/L	99
11) Trichlorofluoromethane	2.058	101	36944	1.69	ug/L	97
12) Diethyl ether	2.337	59	26315	1.75	ug/L	93
13) Acrolein	2.428	56	573	0.12	ug/L #	1
14) Acetone	2.605	43	92376	12.67	ug/L	88
15) 1,1-Dichloroethene	2.545	61	36361	1.33	ug/L	97
16) 1,1,2-TRICL-1,2,2-TRIF...	2.560	101	21613	Below Cal		93
17) Iodomethane	2.686	142	244766	10.24	ug/L	100
19) Methyl acetate	2.987	43	19237	1.18	ug/L	88
20) t-Butyl alcohol	3.272	59	26302	10.20	ug/L #	56
21) Acrylonitrile	3.382	53	7735	1.19	ug/L	91
22) Methylene chloride	3.072	49	23566	1.19	ug/L	85
23) Carbon disulfide	2.767	76	233347	7.43	ug/L #	86
24) Methyl tert-butyl ethe...	3.453	73	43866	1.00	ug/L	95
25) TRANS 1,2-DICHLOROETHENE	3.425	61	22080	0.98	ug/L	98
26) 1,1-Dichloroethane	4.001	63	28287	0.98	ug/L	98
28) Vinyl acetate	4.134	43	431970	12.97	ug/L	89
30) Di isopropyl ether	4.196	45	63828	1.30	ug/L	88
31) 2-Butanone (MEK)	4.894	43	93867	11.46	ug/L	89
33) t-Butyl ethyl ether	4.714	59	49613	0.92	ug/L	95
34) cis-1,2-Dichloroethene	4.839	61	25493	0.98	ug/L	88
35) 2,2-Dichloropropane	4.844	77	21984	0.94	ug/L #	100
36) Ethyl acetate	5.028	43	18349	1.20	ug/L	100
37) Bromochloromethane	5.138	49	17027	1.29	ug/L	83
38) Tetrahydrofuran	5.249	42	8292m	1.42	ug/L	
39) Chloroform	5.273	83	29815	1.19	ug/L #	47
42) 1,1,1-Trichloroethane	5.488	97	23865	1.04	ug/L	97
43) Cyclohexane	5.574	56	53019	1.23	ug/L #	10
44) Carbon tetrachloride	5.699	117	13539	1.41	ug/L #	1
45) 1,1-Dichloropropene	5.699	75	17866	1.13	ug/L	95
46) Benzene	5.942	78	64646	1.08	ug/L	91
47) tert-Amyl Alcohol (TAA)	6.039	59	18569	22.51	ug/L #	56
48) T-AMYL METHYL ETHER	6.141	73	41762	0.91	ug/L	71
51) 1,2-Dichloroethane	5.957	62	20557	0.81	ug/L	78
53) Trichloroethene	6.711	95	17940	0.97	ug/L	92
54) Methylcyclohexane	6.920	83	30153	0.97	ug/L #	84
55) 1,2-Dichloropropane	6.939	63	18790	0.93	ug/L #	62

Data Path : X:\1\data\G030124\
Data File : G24V06106.D
Acq On : 1 Mar 2024 9:30 am
Operator :
Sample : 8260 STD 1.0PPB Inst : GCMSVOA7
Misc :
ALS Vial : 6 Sample Multiplier: 1

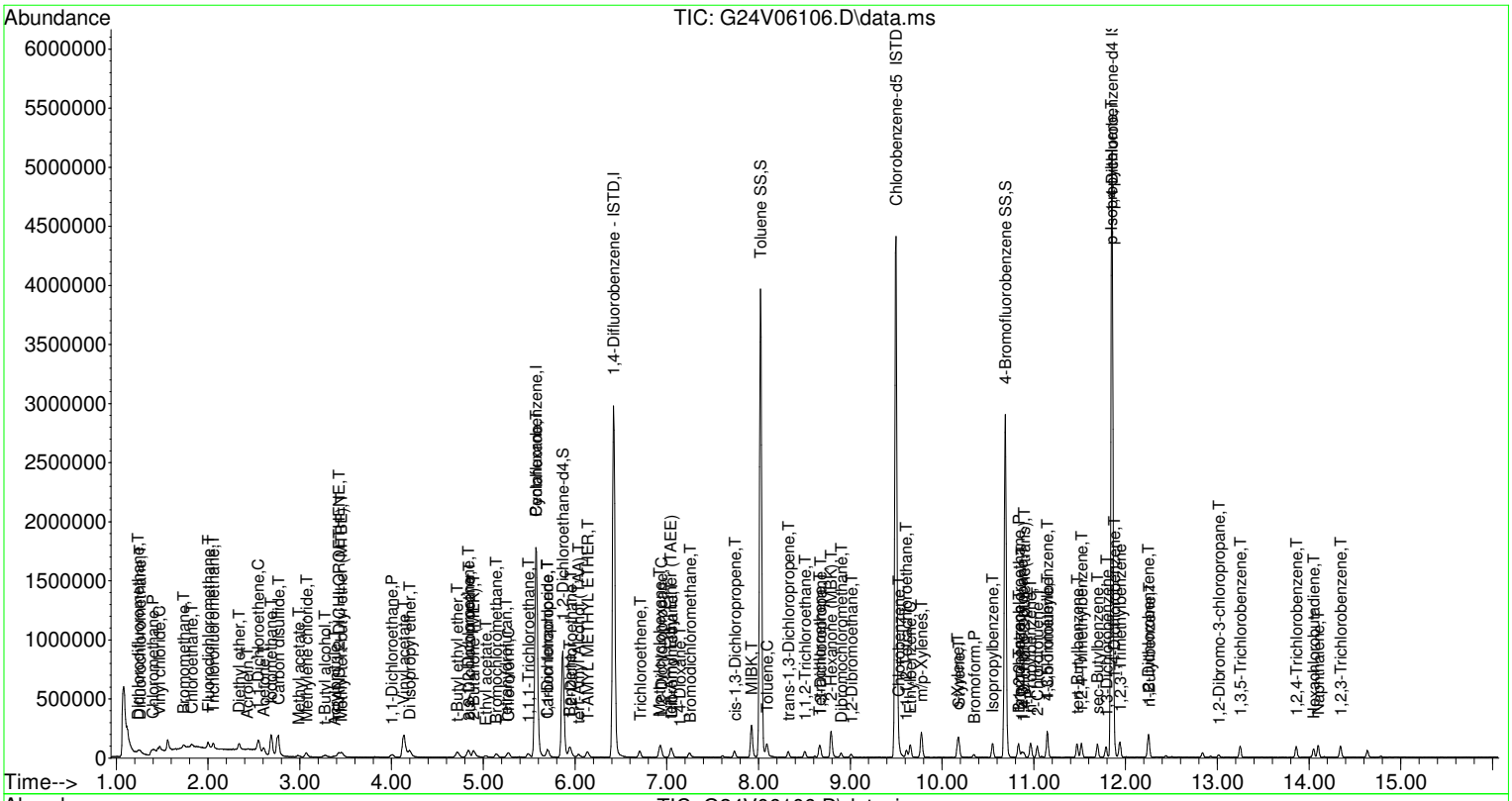
Quant Time: Mar 01 10:09:36 2024
Quant Method : X:\1\methods\GS071223-TAEE-2ND-IS.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Thu Feb 22 14:13:34 2024
Response via : Initial Calibration

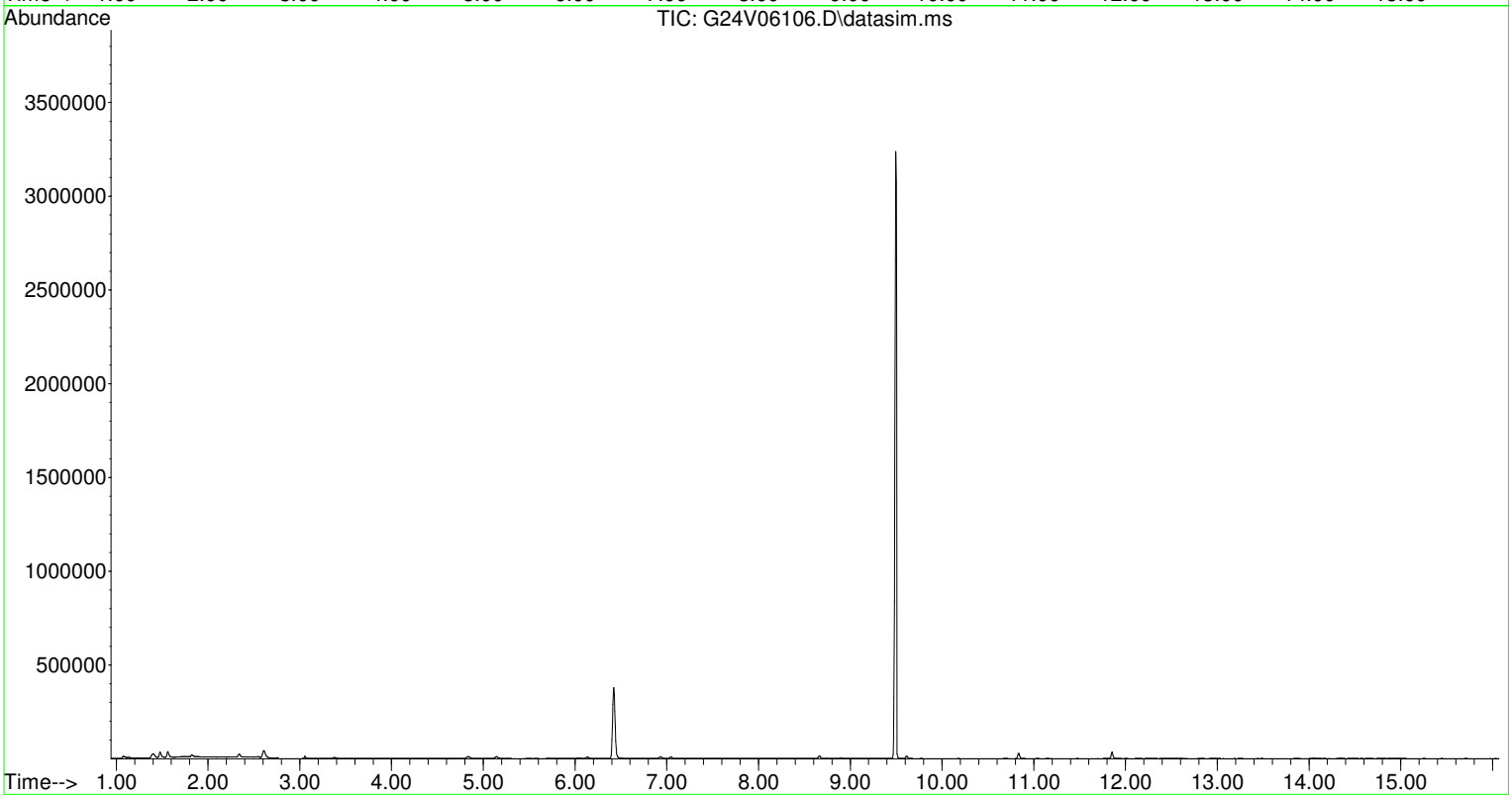
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
56) tert-Amyl Ethyl Ether ...	7.042	59	31953	1.77 ug/L #	100
57) Dibromomethane	7.051	93	8417	0.87 ug/L	96
58) 1,4-Dioxane	7.144	88	2314m	9.93 ug/L	
59) Bromodichloromethane	7.255	83	20684	0.82 ug/L	99
61) MIBK	7.924	43	200881	10.59 ug/L	86
62) cis-1,3-Dichloropropene	7.741	75	28468	0.87 ug/L	98
63) Toluene	8.093	91	70959	0.97 ug/L	98
64) trans-1,3-Dichloropropene	8.325	75	23999	0.85 ug/L	95
66) 1,1,2-Trichloroethane	8.504	97	15466	0.93 ug/L	98
67) 2-Hexanone (MBK)	8.792	43	157507	10.90 ug/L	81
68) Tetrachloroethene	8.663	166	17996	0.99 ug/L	99
69) 1,3-Dichloropropane	8.673	76	27422	0.97 ug/L	92
70) Dibromochloromethane	8.901	129	17444	0.85 ug/L	89
71) 1,2-Dibromoethane	9.011	107	17275	0.96 ug/L	97
74) Chlorobenzene	9.526	112	49711	0.98 ug/L #	79
75) 1,1,1,2-Tetrachloroethane	9.608	131	15608	0.80 ug/L	96
76) Ethylbenzene	9.653	91	78384	0.96 ug/L	100
77) m/p-Xylenes	9.775	91	117860	1.86 ug/L	94
78) o-Xylene	10.169	91	59783	0.88 ug/L	95
79) Styrene	10.183	104	51219	0.89 ug/L	97
80) Bromoform	10.350	173	11254	0.76 ug/L	95
81) Isopropylbenzene	10.550	105	76311	0.91 ug/L	97
83) 1,1,2,2-Tetrachloroethane	10.835	83	21547	0.91 ug/L	96
84) 1,4-Dichloro-2-butene(...	10.894	53	6454	0.68 ug/L	83
85) Bromobenzene	10.835	77	31570	0.91 ug/L	92
86) 1,2,3-Trichloropropane	10.871	75	24716m	0.91 ug/L	
87) n-Propylbenzene	10.962	91	88990m	0.93 ug/L	
88) 2-Chlorotoluene	11.039	91	49838	0.87 ug/L	95
89) 1,3,5-Trimethylbenzene	11.147	105	63325	0.89 ug/L	99
90) 4-Chlorotoluene	11.147	91	61891	0.89 ug/L	98
92) tert-Butylbenzene	11.473	119	55290	0.85 ug/L	100
93) 1,2,4-Trimethylbenzene	11.519	105	65420	0.85 ug/L	89
94) sec-Butylbenzene	11.691	105	78138	0.86 ug/L	99
95) 1,3-Dichlorobenzene	11.790	146	36964	0.82 ug/L	95
96) p-Isopropyltoluene	11.845	119	72003	0.88 ug/L	96
97) 1,4-Dichlorobenzene	11.876	146	40638	0.91 ug/L #	71
98) 1,2,3-Trimethylbenzene	11.940	105	66294	0.82 ug/L #	100
99) n-Butylbenzene	12.257	91	65460	0.86 ug/L	100
100) 1,2-Dichlorobenzene	12.248	146	36002	0.86 ug/L	98
101) 1,2-Dibromo-3-chloropr...	13.017	75	3915	0.65 ug/L #	79
102) 1,3,5-Trichlorobenzene	13.248	180	28219	0.78 ug/L	99
103) 1,2,4-Trichlorobenzene	13.860	180	27617	0.80 ug/L	96
104) Hexachlorobutadiene	14.050	225	12746	0.72 ug/L	98
105) Naphthalene	14.100	128	76786	0.91 ug/L	99
106) 1,2,3-Trichlorobenzene	14.344	180	26059	0.81 ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\1\data\G030124\
Data File : G24V06106.D
Acq On : 1 Mar 2024 9:30 am
Operator :
Sample : 8260 STD 1.0PPB Inst : GCMSVOA7
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 01 10:09:36 2024
Quant Method : X:\1\methods\GS071223-TAEE-2ND-IS.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Thu Feb 22 14:13:34 2024
Response via : Initial Calibration

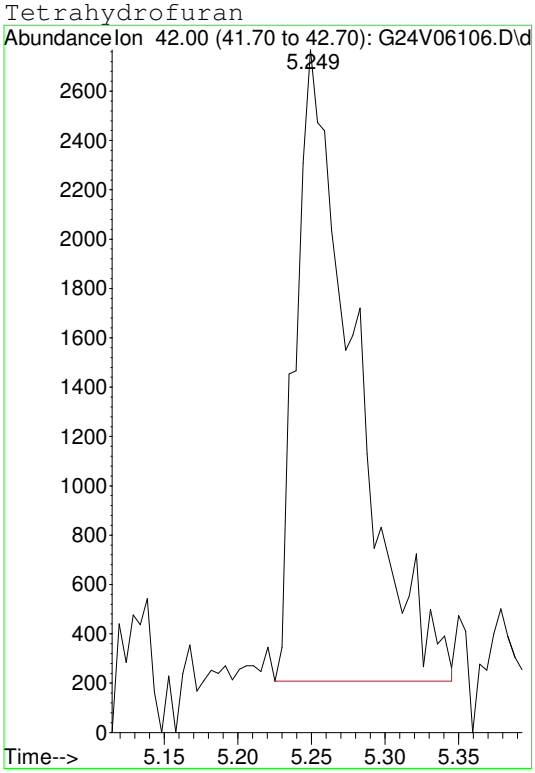




Data Path : X:\1\data\G030124\
Data File : G24V06106.D
Acq On : 1 Mar 2024 9:30 am
Operator :
Sample : 8260 STD 1.0PPB
Misc :

Quant Time : Fri Mar 01 10:09:36 2024
Quant Method : X:\1\methods\GS071223-TAEE-2ND-IS.M
QLast Update : Thu Feb 22 14:13:34 2024

Original Integration
Tetrahydrofuran



Original Int. Results

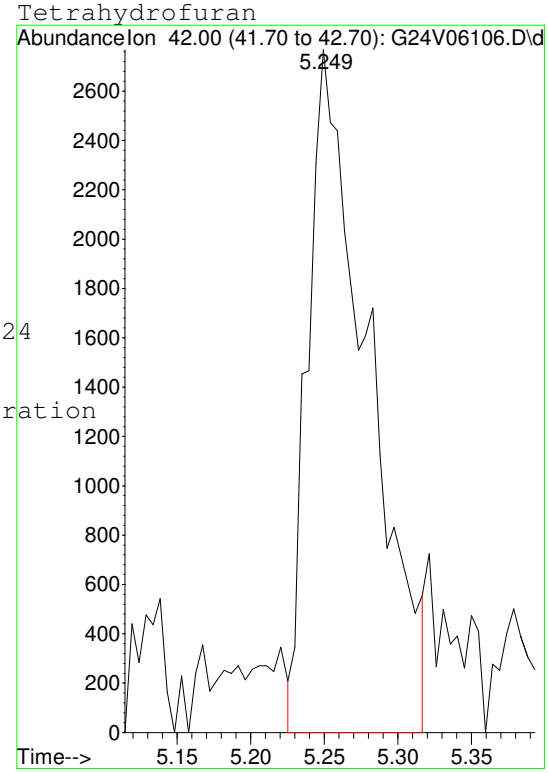
RT : 5.25
Area : 7335
Amount: 1.25618

Manual Int. Results

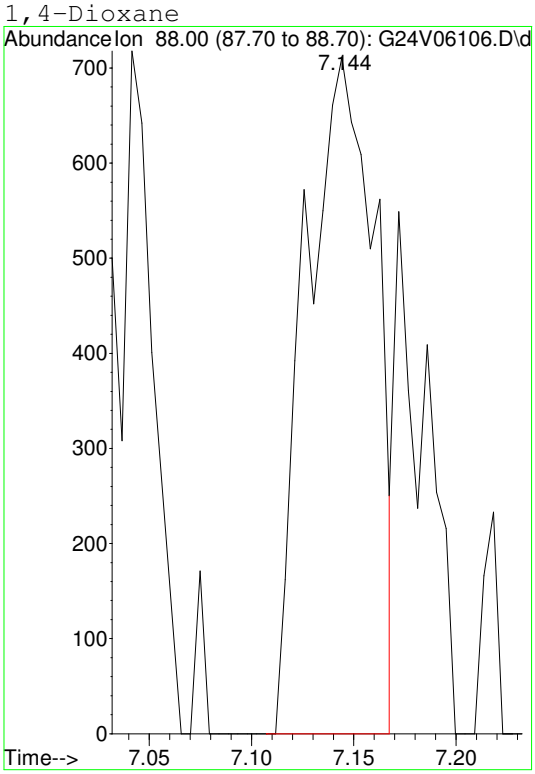
Fri Mar 01 10:08:18 2024

MIuser: MFF
Reason: Incorret Integration
RT : 5.25
Area : 8292
Amount: 1.42008

Manual Integration
Tetrahydrofuran



Original Integration
1,4-Dioxane



Original Int. Results

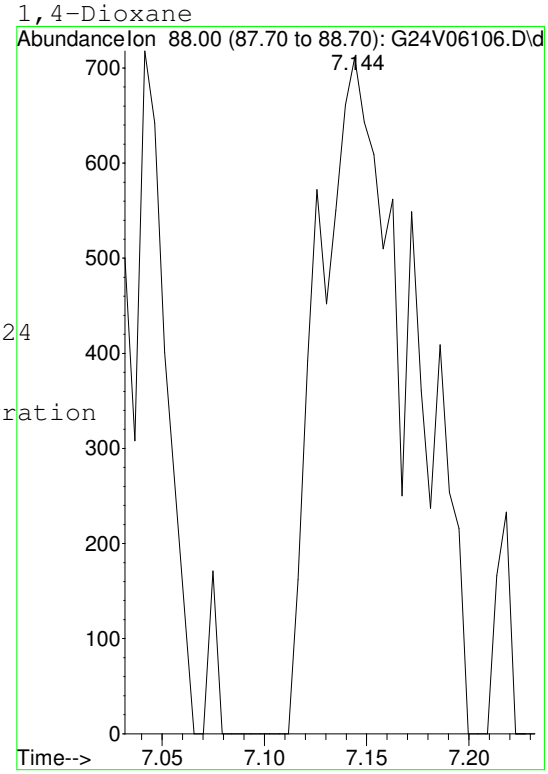
RT : 7.14
Area : 1685
Amount: 7.23299

Manual Int. Results

Fri Mar 01 10:08:52 2024

MIuser: MFF
Reason: Incorret Integration
RT : 7.14
Area : 2314
Amount: 9.93302

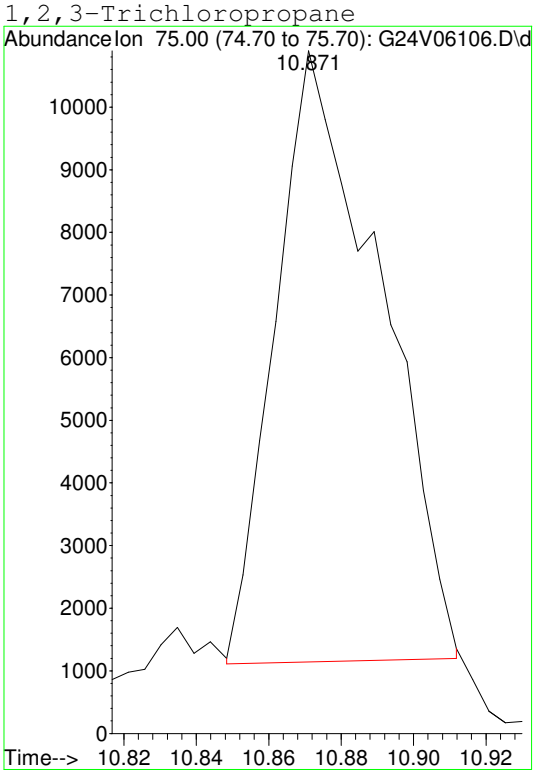
Manual Integration
1,4-Dioxane



Data Path : X:\1\data\G030124\
Data File : G24V06106.D
Acq On : 1 Mar 2024 9:30 am
Operator :
Sample : 8260 STD 1.0PPB
Misc :

Quant Time : Fri Mar 01 10:09:36 2024
Quant Method : X:\1\methods\GS071223-TAEE-2ND-IS.M
QLast Update : Thu Feb 22 14:13:34 2024

Original Integration
1,2,3-Trichloropropane



Original Int. Results

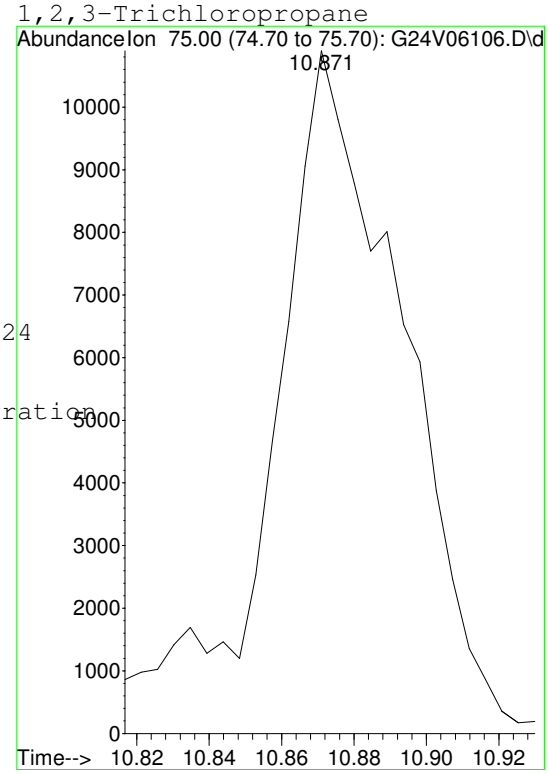
RT : 10.87
Area : 19569
Amount: 0.723748

Manual Int. Results

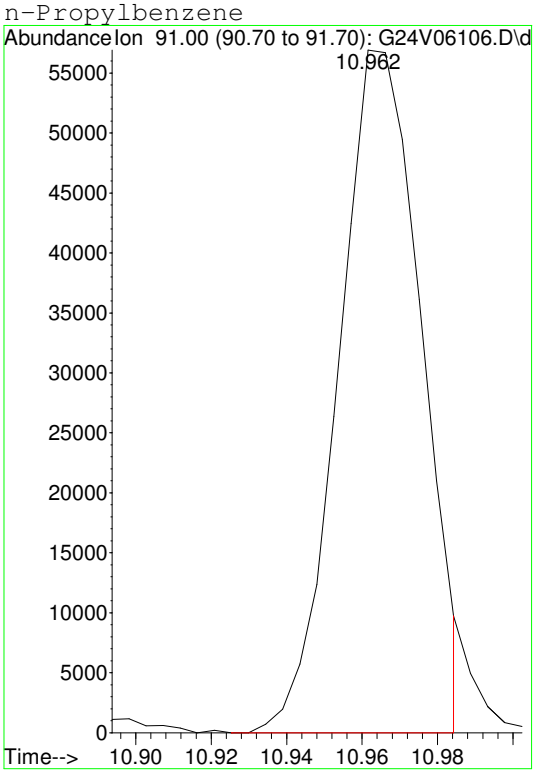
Fri Mar 01 10:09:29 2024

MIuser: MFF
Reason: Incorret Integration
RT : 10.87
Area : 24716
Amount: 0.914107

Manual Integration
1,2,3-Trichloropropane



Original Integration
n-Propylbenzene



Original Int. Results

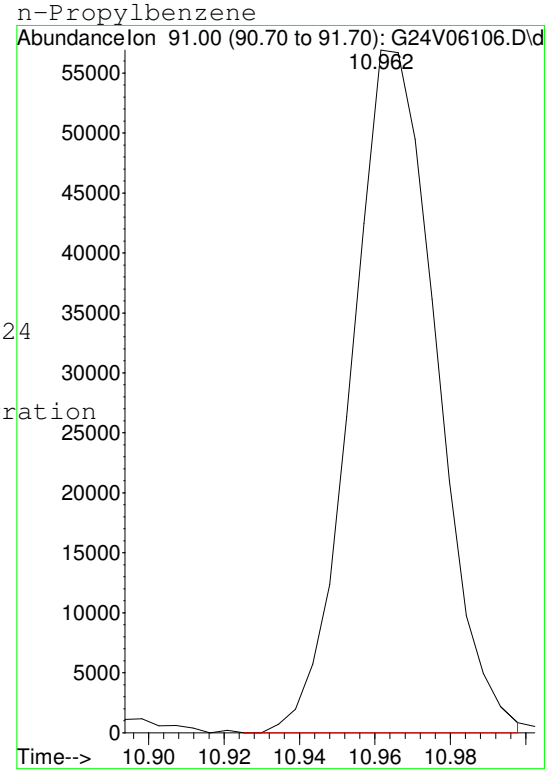
RT : 10.96
Area : 86821
Amount: 0.907943

Manual Int. Results

Fri Mar 01 10:09:35 2024

MIuser: MFF
Reason: Incorret Integration
RT : 10.96
Area : 88990
Amount: 0.930626

Manual Integration
n-Propylbenzene



Data Path : X:\1\data\G030124\
Data File : G24V06107.D
Acq On : 1 Mar 2024 9:57 am
Operator :
Sample : 8260 STD 2.0PPB Inst : GCMSVOA7
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 01 10:18:06 2024
Quant Method : X:\1\methods\GS071223-TAEE-2ND-IS.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Thu Feb 22 14:13:34 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.579	168	1484070	30.00	ug/L		0.00
49) 1,4-Difluorobenzene - ...	6.420	114	2658027	30.00	ug/L		0.00
72) Chlorobenzene-d5 ISTD	9.498	82	950745	30.00	ug/L	#	0.00
91) 1,4-Dichlorobenzene-d4...	11.854	152	1302355	30.00	ug/L		0.00
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4	5.866	65	599339	21.99	ug/L		0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 87.96%				
50) Toluene SS	8.021	98	2647254	25.54	ug/L		0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 102.16%				
73) 4-Bromofluorobenzene SS	10.690	95	957623	23.85	ug/L		0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 95.40%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.237	85	36838	2.31	ug/L		97
4) Difluorochloromethane	1.257	51	56919	1.90	ug/L		94
5) Chloromethane	1.394	50	87044	4.19	ug/L		98
6) Vinyl chloride	1.470	62	73013	3.89	ug/L		90
7) Bromomethane	1.733	94	33552	6.29	ug/L		95
8) Chloroethane	1.825	64	39997	5.51	ug/L		91
10) Fluorodichloromethane	1.997	67	115366	4.93	ug/L		98
11) Trichlorofluoromethane	2.058	101	87834	3.99	ug/L		99
12) Diethyl ether	2.337	59	53000	3.50	ug/L		93
13) Acrolein	2.316	56	1273	0.27	ug/L		88
14) Acetone	2.605	43	166202	22.67	ug/L		90
15) 1,1-Dichloroethene	2.539	61	81232	2.96	ug/L		96
16) 1,1,2-TRICL-1,2,2-TRIF...	2.560	101	50287	1.26	ug/L		95
17) Iodomethane	2.686	142	596103	24.80	ug/L		99
19) Methyl acetate	2.977	43	36715	2.25	ug/L		91
20) t-Butyl alcohol	3.272	59	53485	20.61	ug/L		70
21) Acrylonitrile	3.372	53	16951	2.59	ug/L		92
22) Methylene chloride	3.072	49	52296	2.62	ug/L		84
23) Carbon disulfide	2.767	76	551074	17.45	ug/L	#	94
24) Methyl tert-butyl ethe...	3.458	73	95932	2.17	ug/L		92
25) TRANS 1,2-DICHLOROETHENE	3.425	61	52185	2.30	ug/L		97
26) 1,1-Dichloroethane	4.001	63	65641	2.26	ug/L		92
28) Vinyl acetate	4.134	43	938297	28.01	ug/L		89
30) Di isopropyl ether	4.196	45	135670	2.74	ug/L		89
31) 2-Butanone (MEK)	4.889	43	191358	23.23	ug/L		89
33) t-Butyl ethyl ether	4.714	59	112597	2.08	ug/L		95
34) cis-1,2-Dichloroethene	4.839	61	59901	2.28	ug/L		87
35) 2,2-Dichloropropane	4.829	77	53110	2.26	ug/L	#	100
36) Ethyl acetate	5.018	43	37851	2.45	ug/L		100
37) Bromochloromethane	5.143	49	38394	2.90	ug/L	#	81
38) Tetrahydrofuran	5.249	42	16828	2.86	ug/L	#	70
39) Chloroform	5.273	83	66557	2.64	ug/L	#	49
42) 1,1,1-Trichloroethane	5.493	97	55075	2.38	ug/L		97
43) Cyclohexane	5.570	56	98729	2.59	ug/L	#	17
44) Carbon tetrachloride	5.694	117	34849	2.44	ug/L	#	1
45) 1,1-Dichloropropene	5.699	75	42307	2.66	ug/L		97
46) Benzene	5.942	78	150692	2.50	ug/L		95
47) tert-Amyl Alcohol (TAA)	6.034	59	38954	46.93	ug/L	#	55
48) T-AMYL METHYL ETHER	6.130	73	89827	1.96	ug/L		85
51) 1,2-Dichloroethane	5.957	62	43685	1.72	ug/L		82
53) Trichloroethene	6.701	95	42131	2.28	ug/L		98
54) Methylcyclohexane	6.925	83	69004	2.22	ug/L	#	84
55) 1,2-Dichloropropane	6.935	63	41654	2.06	ug/L	#	61

Data Path : X:\1\data\G030124\
Data File : G24V06107.D
Acq On : 1 Mar 2024 9:57 am
Operator :
Sample : 8260 STD 2.0PPB Inst : GCMSVOA7
Misc :
ALS Vial : 7 Sample Multiplier: 1

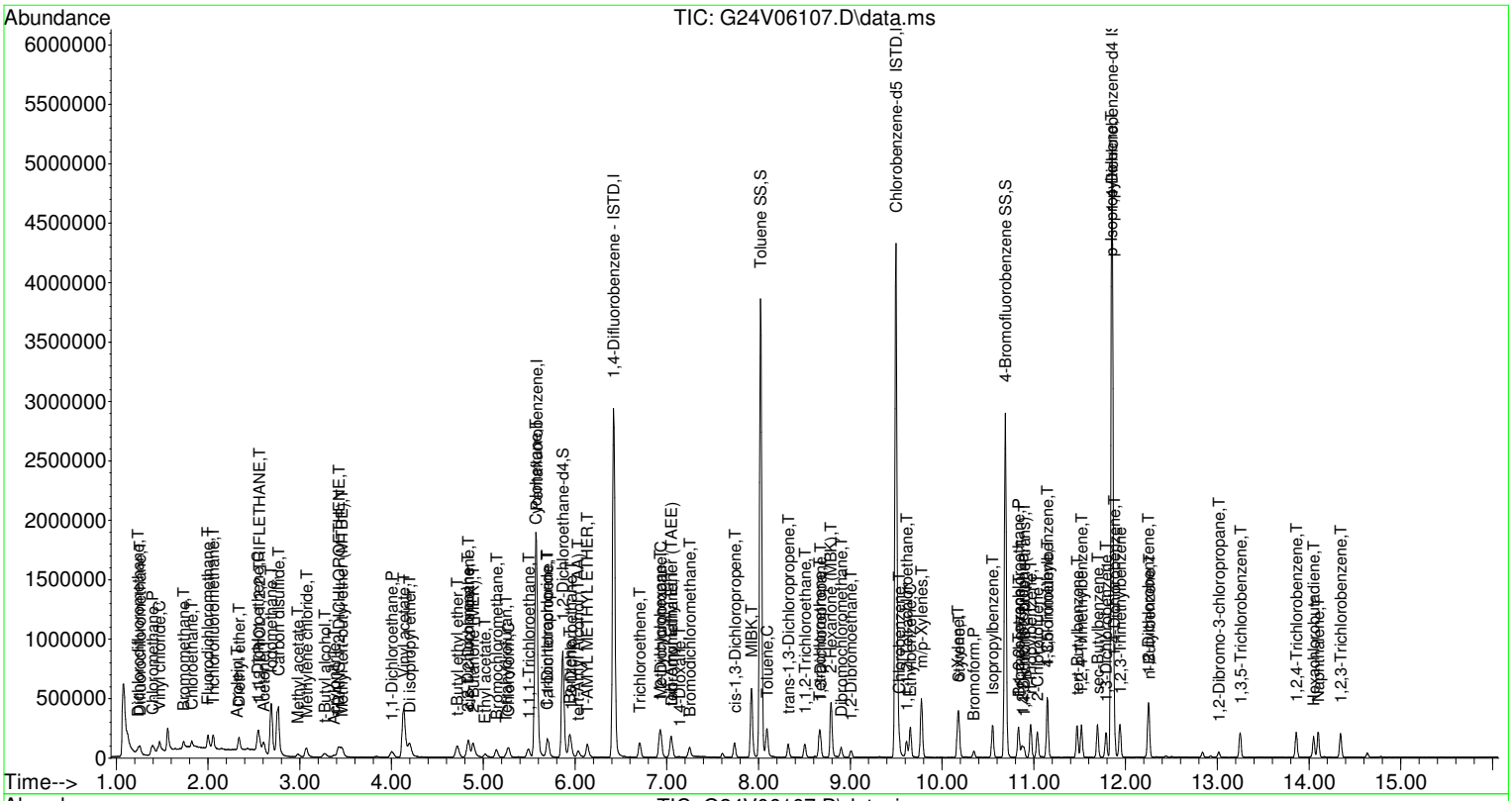
Quant Time: Mar 01 10:18:06 2024
Quant Method : X:\1\methods\GS071223-TAEE-2ND-IS.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Thu Feb 22 14:13:34 2024
Response via : Initial Calibration

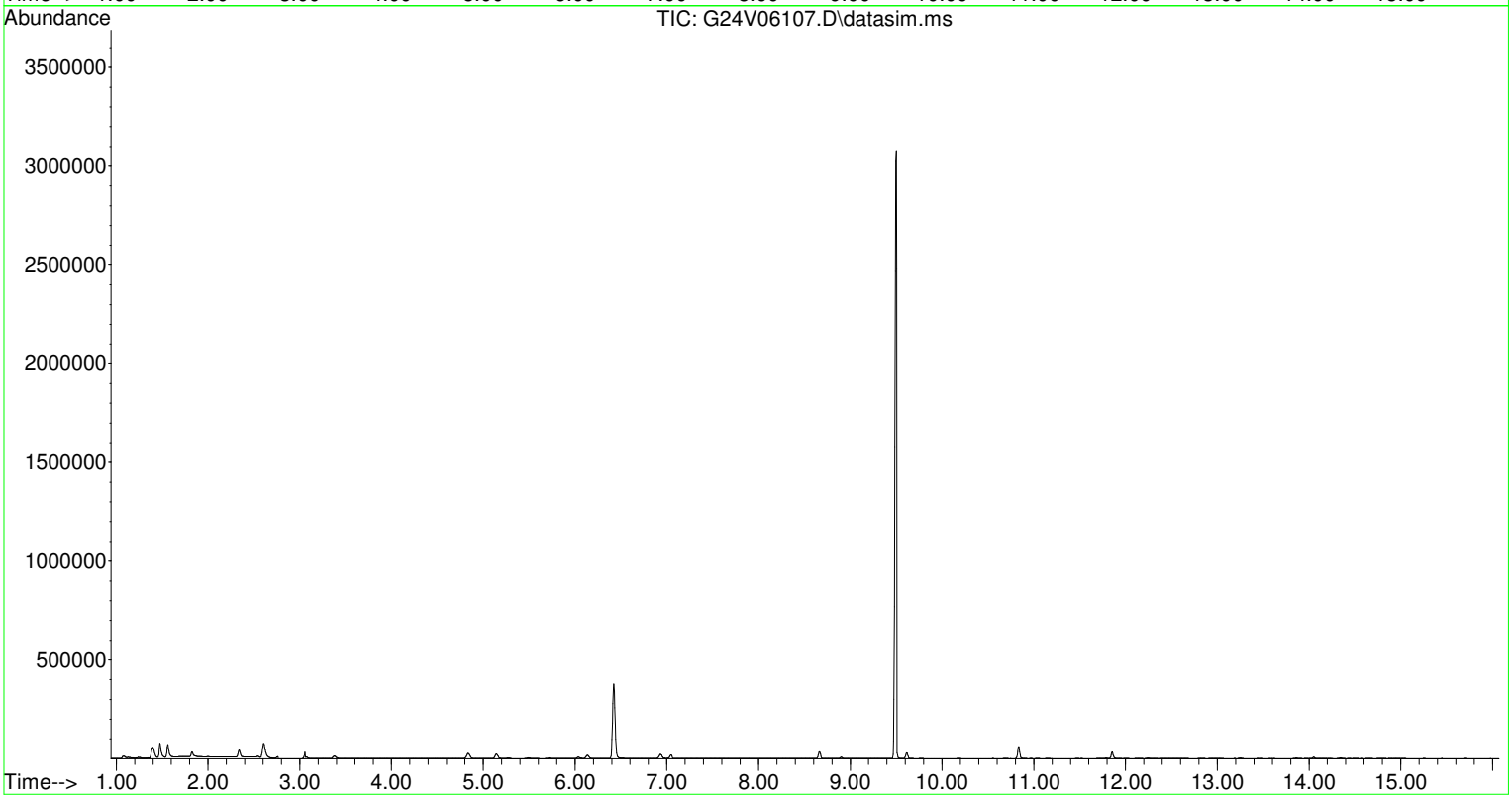
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
56) tert-Amyl Ethyl Ether ...	7.046	59	72546	4.02	ug/L	#	100
57) Dibromomethane	7.051	93	18560	1.91	ug/L		98
58) 1,4-Dioxane	7.140	88	5747m	24.64	ug/L		
59) Bromodichloromethane	7.251	83	46298	1.83	ug/L		99
61) MIBK	7.924	43	423949	22.31	ug/L		86
62) cis-1,3-Dichloropropene	7.741	75	63539	1.95	ug/L		95
63) Toluene	8.093	91	162171	2.22	ug/L		98
64) trans-1,3-Dichloropropene	8.324	75	53258	1.88	ug/L		96
66) 1,1,2-Trichloroethane	8.504	97	35200	2.11	ug/L		93
67) 2-Hexanone (MBK)	8.787	43	325017	22.47	ug/L		84
68) Tetrachloroethene	8.663	166	41801	2.29	ug/L		92
69) 1,3-Dichloropropane	8.673	76	58273	2.07	ug/L		94
70) Dibromochloromethane	8.901	129	41314	2.01	ug/L		95
71) 1,2-Dibromoethane	9.006	107	37624	2.08	ug/L		98
74) Chlorobenzene	9.531	112	114558	2.36	ug/L		91
75) 1,1,1,2-Tetrachloroethane	9.612	131	35976	1.93	ug/L		96
76) Ethylbenzene	9.653	91	180737	2.32	ug/L		100
77) m/p-Xylenes	9.775	91	278088	4.60	ug/L		95
78) o-Xylene	10.174	91	137617	2.11	ug/L		96
79) Styrene	10.183	104	119039	2.16	ug/L		97
80) Bromoform	10.346	173	24669	1.75	ug/L		99
81) Isopropylbenzene	10.549	105	176701	2.20	ug/L		96
83) 1,1,2,2-Tetrachloroethane	10.830	83	47856	2.12	ug/L		97
84) 1,4-Dichloro-2-butene(...	10.894	53	14364	1.58	ug/L		85
85) Bromobenzene	10.835	77	72090	2.17	ug/L		91
86) 1,2,3-Trichloropropane	10.876	75	44349	1.72	ug/L		91
87) n-Propylbenzene	10.966	91	204495	2.24	ug/L		99
88) 2-Chlorotoluene	11.039	91	117852	2.16	ug/L		94
89) 1,3,5-Trimethylbenzene	11.147	105	147264	2.16	ug/L		100
90) 4-Chlorotoluene	11.147	91	143780	2.16	ug/L		96
92) tert-Butylbenzene	11.473	119	127672	1.98	ug/L		99
93) 1,2,4-Trimethylbenzene	11.519	105	148105	1.95	ug/L		91
94) sec-Butylbenzene	11.695	105	188973	2.11	ug/L		98
95) 1,3-Dichlorobenzene	11.786	146	88785	2.00	ug/L		99
96) p-Isopropyltoluene	11.845	119	172980	2.14	ug/L		98
97) 1,4-Dichlorobenzene	11.876	146	90239	2.04	ug/L		83
98) 1,2,3-Trimethylbenzene	11.940	105	153179	1.91	ug/L	#	100
99) n-Butylbenzene	12.257	91	159996	2.12	ug/L		99
100) 1,2-Dichlorobenzene	12.248	146	84166	2.03	ug/L		99
101) 1,2-Dibromo-3-chloropr...	13.017	75	8757	1.48	ug/L		89
102) 1,3,5-Trichlorobenzene	13.253	180	65680	1.84	ug/L		98
103) 1,2,4-Trichlorobenzene	13.860	180	64653	1.89	ug/L		99
104) Hexachlorobutadiene	14.050	225	31061	1.77	ug/L		100
105) Naphthalene	14.100	128	168482	2.01	ug/L		99
106) 1,2,3-Trichlorobenzene	14.344	180	60346	1.90	ug/L		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\1\data\G030124\
Data File : G24V06107.D
Acq On : 1 Mar 2024 9:57 am
Operator :
Sample : 8260 STD 2.0PPB Inst : GCMSVOA7
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 01 10:18:06 2024
Quant Method : X:\1\methods\GS071223-TAEE-2ND-IS.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Thu Feb 22 14:13:34 2024
Response via : Initial Calibration

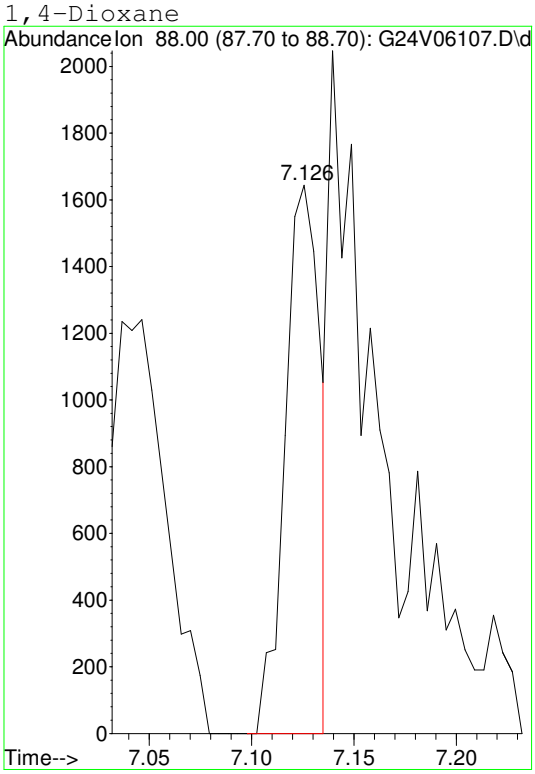




Data Path : X:\1\data\G030124\
Data File : G24V06107.D
Acq On : 1 Mar 2024 9:57 am
Operator :
Sample : 8260 STD 2.0PPB
Misc :

Quant Time : Fri Mar 01 10:18:06 2024
Quant Method : X:\1\methods\GS071223-TAEE-2ND-IS.M
QLast Update : Thu Feb 22 14:13:34 2024

Original Integration
1,4-Dioxane



Original Int. Results

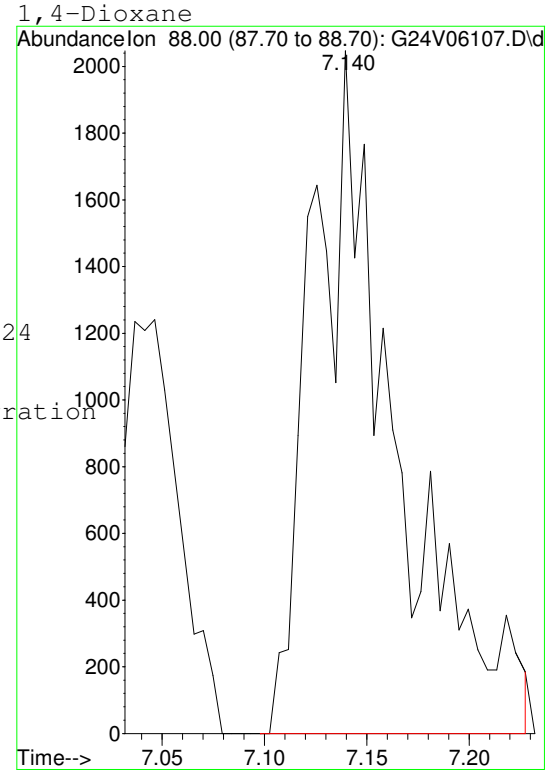
RT : 7.13
Area : 1965
Amount: 8.42527

Manual Int. Results

Fri Mar 01 10:18:06 2024

MIuser: MFF
Reason: Incorret Integration
RT : 7.14
Area : 5747
Amount: 24.6412

Manual Integration
1,4-Dioxane



Data Path : X:\1\data\G030124\
Data File : G24V06108.D
Acq On : 1 Mar 2024 10:22 am
Operator :
Sample : 8260 STD 5.0PPB Inst : GCMSVOA7
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 01 10:41:59 2024
Quant Method : X:\1\methods\GS071223-TAEE-2ND-IS.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Thu Feb 22 14:13:34 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.579	168	1566674	30.00	ug/L		0.00
49) 1,4-Difluorobenzene - ...	6.420	114	2795342	30.00	ug/L		0.00
72) Chlorobenzene-d5 ISTD	9.498	82	982842	30.00	ug/L	#	0.00
91) 1,4-Dichlorobenzene-d4...	11.854	152	1345058	30.00	ug/L		0.00
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4	5.866	65	611971	21.27	ug/L		0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 85.08%				
50) Toluene SS	8.021	98	2738733	25.13	ug/L		0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 100.52%				
73) 4-Bromofluorobenzene SS	10.690	95	979605	23.60	ug/L		0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 94.40%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.242	85	39315	2.33	ug/L		98
4) Difluorochloromethane	1.262	51	94256	3.05	ug/L		92
5) Chloromethane	1.404	50	137463	6.26	ug/L		99
6) Vinyl chloride	1.475	62	118604	5.99	ug/L		90
7) Bromomethane	1.733	94	50873	9.03	ug/L		99
8) Chloroethane	1.825	64	71770	9.36	ug/L		95
10) Fluorodichloromethane	1.997	67	225084	9.12	ug/L		98
11) Trichlorofluoromethane	2.053	101	163038	7.01	ug/L		99
12) Diethyl ether	2.337	59	117608	7.37	ug/L		91
13) Acrolein	2.671	56	444	0.09	ug/L		87
14) Acetone	2.605	43	474549	61.31	ug/L		89
15) 1,1-Dichloroethene	2.544	61	168310	5.81	ug/L		98
16) 1,1,2-TRICL-1,2,2-TRIF...	2.565	101	108159	4.14	ug/L		92
17) Iodomethane	2.686	142	1226954	48.35	ug/L		100
19) Methyl acetate	2.982	43	118071	6.84	ug/L		88
20) t-Butyl alcohol	3.272	59	120718	44.06	ug/L		69
21) Acrylonitrile	3.372	53	37762	5.47	ug/L		92
22) Methylene chloride	3.072	49	106868	5.08	ug/L		84
23) Carbon disulfide	2.767	76	1355938	40.67	ug/L	#	93
24) Methyl tert-butyl ethe...	3.458	73	213905	4.59	ug/L		91
25) TRANS 1,2-DICHLOROETHENE	3.420	61	103157	4.31	ug/L		100
26) 1,1-Dichloroethane	4.005	63	133957	4.36	ug/L		98
28) Vinyl acetate	4.134	43	2337806	66.11	ug/L		88
30) Di isopropyl ether	4.200	45	296376	5.68	ug/L		86
31) 2-Butanone (MEK)	4.884	43	535414	61.56	ug/L		86
33) t-Butyl ethyl ether	4.714	59	247209	4.33	ug/L		97
34) cis-1,2-Dichloroethene	4.839	61	124213	4.48	ug/L		85
35) 2,2-Dichloropropane	4.839	77	106518	4.30	ug/L	#	100
36) Ethyl acetate	5.013	43	89953	5.52	ug/L		100
37) Bromochloromethane	5.138	49	78028	5.58	ug/L		86
38) Tetrahydrofuran	5.239	42	38642	6.23	ug/L		83
39) Chloroform	5.268	83	137367	5.16	ug/L	#	50
42) 1,1,1-Trichloroethane	5.488	97	111722	4.57	ug/L		96
43) Cyclohexane	5.570	56	167451	4.39	ug/L	#	21
44) Carbon tetrachloride	5.698	117	69869	3.98	ug/L	#	1
45) 1,1-Dichloropropene	5.698	75	80327	4.78	ug/L		95
46) Benzene	5.942	78	316863	4.97	ug/L		94
47) tert-Amyl Alcohol (TAA)	6.034	59	93578	106.80	ug/L	#	57
48) T-AMYL METHYL ETHER	6.135	73	208252	4.29	ug/L		81
51) 1,2-Dichloroethane	5.957	62	97910	3.66	ug/L		86
53) Trichloroethene	6.706	95	84409	4.34	ug/L		98
54) Methylcyclohexane	6.925	83	138731	4.25	ug/L	#	83
55) 1,2-Dichloropropane	6.939	63	87807	4.12	ug/L	#	60

Data Path : X:\1\data\G030124\
Data File : G24V06108.D
Acq On : 1 Mar 2024 10:22 am
Operator :
Sample : 8260 STD 5.0PPB Inst : GCMSVOA7
Misc :
ALS Vial : 8 Sample Multiplier: 1

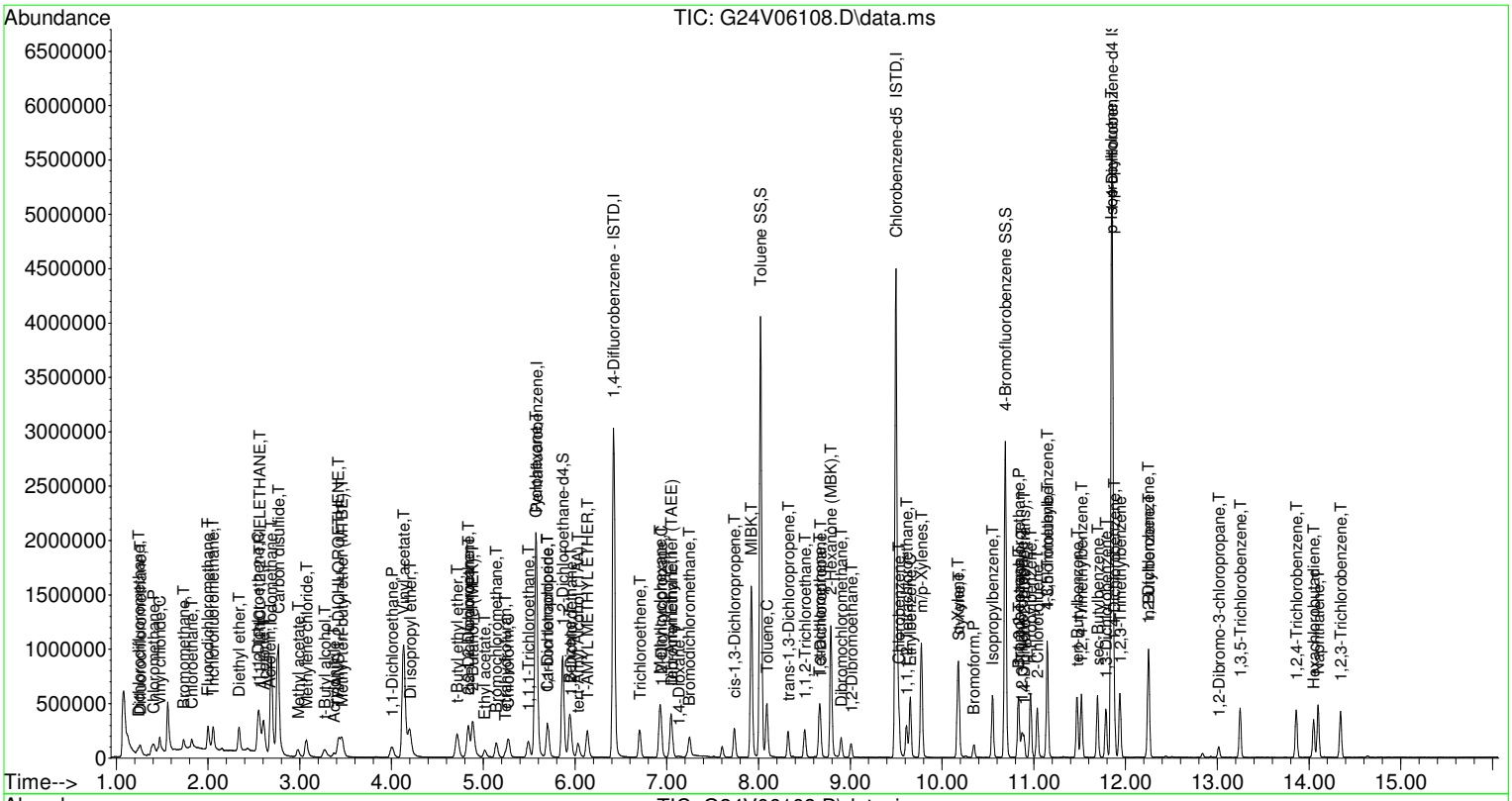
Quant Time: Mar 01 10:41:59 2024
Quant Method : X:\1\methods\GS071223-TAEE-2ND-IS.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Thu Feb 22 14:13:34 2024
Response via : Initial Calibration

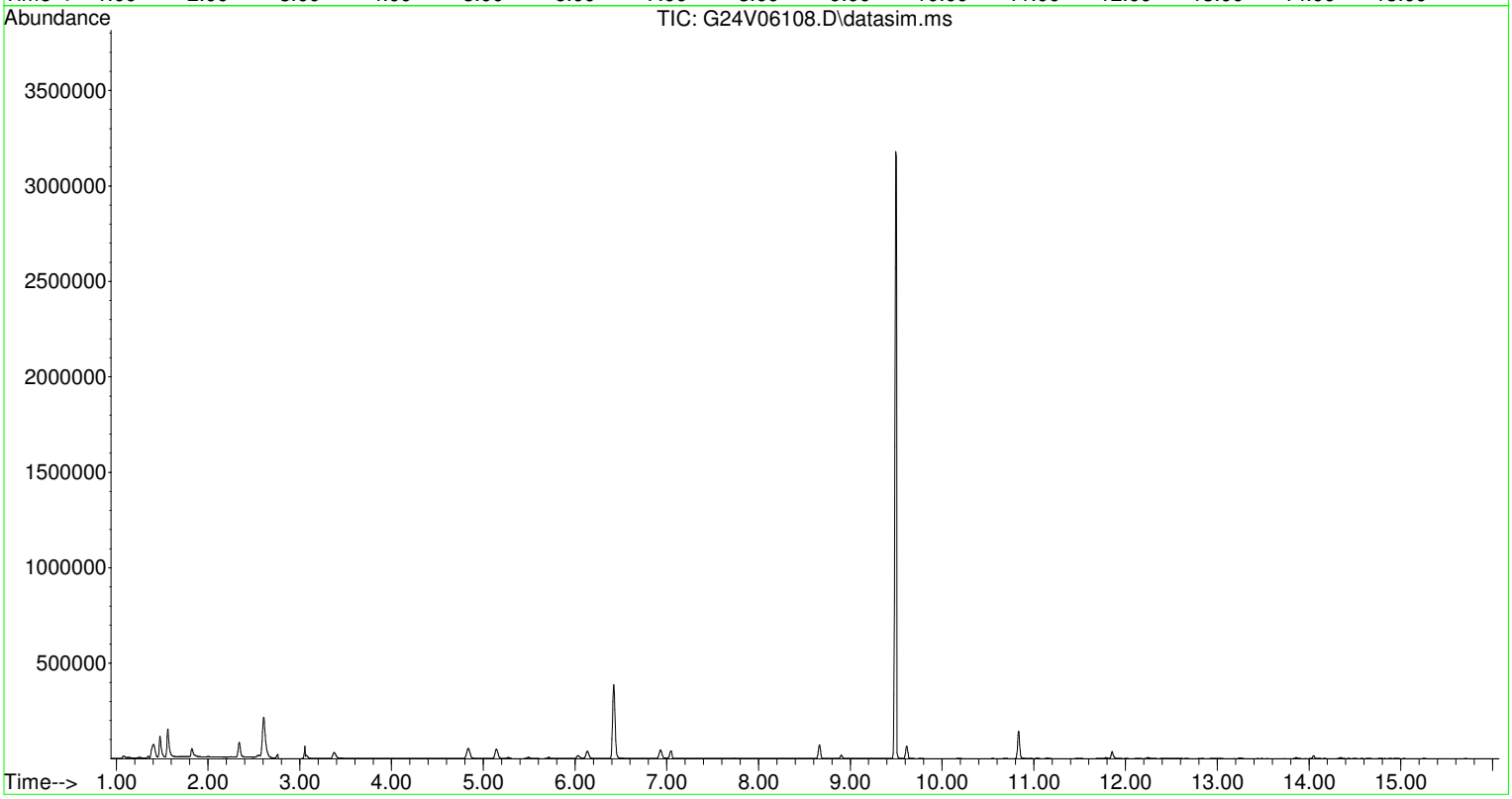
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
56) tert-Amyl Ethyl Ether ...	7.046	59	165174	8.71	ug/L	#	100
57) Dibromomethane	7.051	93	41058	4.01	ug/L		97
58) 1,4-Dioxane	7.130	88	11615	47.35	ug/L		81
59) Bromodichloromethane	7.246	83	103898	3.91	ug/L		99
61) MIBK	7.919	43	1099060	55.01	ug/L		86
62) cis-1,3-Dichloropropene	7.735	75	140012	4.08	ug/L		98
63) Toluene	8.093	91	340278	4.43	ug/L		100
64) trans-1,3-Dichloropropene	8.324	75	116286	3.91	ug/L		92
66) 1,1,2-Trichloroethane	8.503	97	79130	4.51	ug/L		95
67) 2-Hexanone (MBK)	8.787	43	839009	55.16	ug/L		82
68) Tetrachloroethene	8.663	166	86526	4.51	ug/L		95
69) 1,3-Dichloropropane	8.672	76	131569	4.44	ug/L		94
70) Dibromochloromethane	8.901	129	95422	4.40	ug/L		97
71) 1,2-Dibromoethane	9.011	107	86934	4.57	ug/L		98
74) Chlorobenzene	9.526	112	234103	4.66	ug/L		96
75) 1,1,1,2-Tetrachloroethane	9.612	131	80967	4.21	ug/L		98
76) Ethylbenzene	9.653	91	380372	4.73	ug/L		99
77) m/p-Xylenes	9.775	91	586621	9.40	ug/L		95
78) o-Xylene	10.174	91	297361	4.41	ug/L		96
79) Styrene	10.183	104	256157	4.50	ug/L		99
80) Bromoform	10.346	173	56366	3.86	ug/L		97
81) Isopropylbenzene	10.549	105	366370	4.41	ug/L		96
83) 1,1,2,2-Tetrachloroethane	10.835	83	110045	4.71	ug/L		100
84) 1,4-Dichloro-2-butene(...	10.894	53	33125	3.53	ug/L		94
85) Bromobenzene	10.830	77	152691	4.45	ug/L		93
86) 1,2,3-Trichloropropane	10.871	75	104899	3.93	ug/L		92
87) n-Propylbenzene	10.966	91	437447	4.63	ug/L		100
88) 2-Chlorotoluene	11.038	91	248689	4.41	ug/L		96
89) 1,3,5-Trimethylbenzene	11.147	105	309562	4.39	ug/L		98
90) 4-Chlorotoluene	11.147	91	308491	4.48	ug/L		97
92) tert-Butylbenzene	11.473	119	271071	4.06	ug/L		98
93) 1,2,4-Trimethylbenzene	11.518	105	317317	4.05	ug/L		89
94) sec-Butylbenzene	11.695	105	387829	4.19	ug/L		99
95) 1,3-Dichlorobenzene	11.786	146	186775	4.08	ug/L		98
96) p-Isopropyltoluene	11.845	119	360787	4.33	ug/L		99
97) 1,4-Dichlorobenzene	11.876	146	194154	4.25	ug/L		92
98) 1,2,3-Trimethylbenzene	11.940	105	328268	3.96	ug/L	#	100
99) n-Butylbenzene	12.252	91	333334	4.28	ug/L		99
100) 1,2-Dichlorobenzene	12.248	146	181572	4.24	ug/L		99
101) 1,2-Dibromo-3-chloropr...	13.017	75	20222	3.31	ug/L		87
102) 1,3,5-Trichlorobenzene	13.248	180	140273	3.80	ug/L		98
103) 1,2,4-Trichlorobenzene	13.860	180	136983	3.88	ug/L		99
104) Hexachlorobutadiene	14.050	225	63345	3.49	ug/L		95
105) Naphthalene	14.100	128	380172	4.39	ug/L		99
106) 1,2,3-Trichlorobenzene	14.344	180	128223	3.91	ug/L		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\1\data\G030124\
Data File : G24V06108.D
Acq On : 1 Mar 2024 10:22 am
Operator :
Sample : 8260 STD 5.0PPB Inst : GCMSVOA7
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 01 10:41:59 2024
Quant Method : X:\1\methods\GS071223-TAEE-2ND-IS.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Thu Feb 22 14:13:34 2024
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : X:\1\data\G030124\
Data File : G24V06109.D
Acq On : 1 Mar 2024 10:48 am
Operator :
Sample : 8260 STD 10PPB Inst : GCMSVOA7
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 01 11:13:03 2024
Quant Method : X:\1\methods\GS071223-TAEE-2ND-IS.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Thu Feb 22 14:13:34 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.579	168	1637972	30.00	ug/L		0.00
49) 1,4-Difluorobenzene - ...	6.420	114	2843612	30.00	ug/L		0.00
72) Chlorobenzene-d5 ISTD	9.498	82	1008091	30.00	ug/L	#	0.00
91) 1,4-Dichlorobenzene-d4...	11.854	152	1381027	30.00	ug/L		0.00
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4	5.866	65	630823	20.97	ug/L		0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 83.88%				
50) Toluene SS	8.021	98	2729507	24.62	ug/L		0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 98.48%				
73) 4-Bromofluorobenzene SS	10.690	95	1012075	23.77	ug/L		0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 95.08%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.242	85	150939	8.57	ug/L		98
4) Difluorochloromethane	1.262	51	230012	7.28	ug/L		91
5) Chloromethane	1.404	50	352488	15.36	ug/L		98
6) Vinyl chloride	1.475	62	304919	14.73	ug/L		89
7) Bromomethane	1.733	94	97870	16.62	ug/L		99
8) Chloroethane	1.820	64	155372	19.39	ug/L		96
10) Fluorodichloromethane	1.997	67	492277	19.08	ug/L		99
11) Trichlorofluoromethane	2.053	101	366881	15.08	ug/L		100
12) Diethyl ether	2.337	59	251544	15.07	ug/L		92
13) Acrolein	2.296	56	628	0.12	ug/L		84
14) Acetone	2.605	43	852629	105.35	ug/L		87
15) 1,1-Dichloroethene	2.545	61	301582	9.95	ug/L		96
16) 1,1,2-TRICL-1,2,2-TRIF...	2.565	101	201076	8.54	ug/L		97
17) Iodomethane	2.686	142	2761242	104.06	ug/L		100
19) Methyl acetate	2.982	43	217470	12.05	ug/L		88
20) t-Butyl alcohol	3.272	59	264604	92.37	ug/L		69
21) Acrylonitrile	3.368	53	77118	10.69	ug/L		99
22) Methylene chloride	3.068	49	224632	10.21	ug/L		84
23) Carbon disulfide	2.767	76	2360539	67.72	ug/L	#	94
24) Methyl tert-butyl ethe...	3.458	73	460768	9.45	ug/L		94
25) TRANS 1,2-DICHLOROETHENE	3.420	61	226313	9.05	ug/L		99
26) 1,1-Dichloroethane	4.005	63	290060	9.03	ug/L		98
28) Vinyl acetate	4.134	43	5023505	135.86	ug/L		88
30) Di isopropyl ether	4.196	45	662749	12.14	ug/L		87
31) 2-Butanone (MEK)	4.884	43	1066407	117.28	ug/L		87
33) t-Butyl ethyl ether	4.714	59	543965	9.11	ug/L		97
34) cis-1,2-Dichloroethene	4.839	61	264654	9.12	ug/L		85
35) 2,2-Dichloropropane	4.834	77	227420	8.78	ug/L	#	100
36) Ethyl acetate	5.013	43	180679	10.60	ug/L		100
37) Bromochloromethane	5.143	49	165645	11.33	ug/L		87
38) Tetrahydrofuran	5.244	42	82766	12.77	ug/L		84
39) Chloroform	5.273	83	294295	10.57	ug/L	#	50
42) 1,1,1-Trichloroethane	5.488	97	237054	9.28	ug/L		95
43) Cyclohexane	5.570	56	340914	8.90	ug/L	#	24
44) Carbon tetrachloride	5.699	117	160414m	7.85	ug/L		
45) 1,1-Dichloropropene	5.699	75	171850	9.78	ug/L		96
46) Benzene	5.942	78	676529	10.16	ug/L		96
47) tert-Amyl Alcohol (TAA)	6.034	59	211720	231.12	ug/L	#	54
48) T-AMYL METHYL ETHER	6.136	73	464200	9.16	ug/L		82
51) 1,2-Dichloroethane	5.957	62	211018	7.76	ug/L		87
53) Trichloroethene	6.706	95	180274	9.12	ug/L		97
54) Methylcyclohexane	6.925	83	298941	9.00	ug/L	#	82
55) 1,2-Dichloropropane	6.939	63	192703	8.90	ug/L	#	61

Data Path : X:\1\data\G030124\
Data File : G24V06109.D
Acq On : 1 Mar 2024 10:48 am
Operator :
Sample : 8260 STD 10PPB Inst : GCMSVOA7
Misc :
ALS Vial : 9 Sample Multiplier: 1

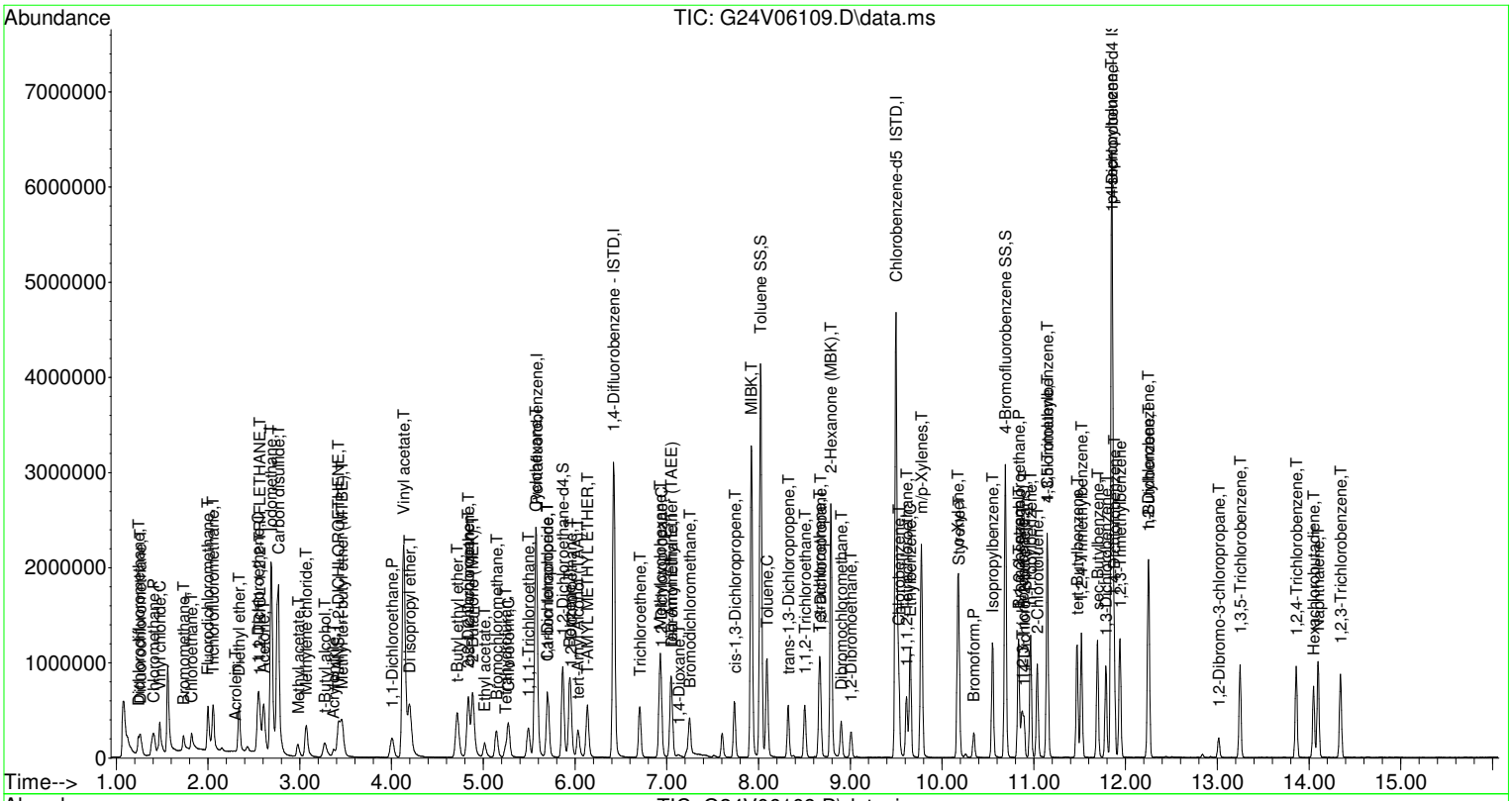
Quant Time: Mar 01 11:13:03 2024
Quant Method : X:\1\methods\GS071223-TAEE-2ND-IS.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Thu Feb 22 14:13:34 2024
Response via : Initial Calibration

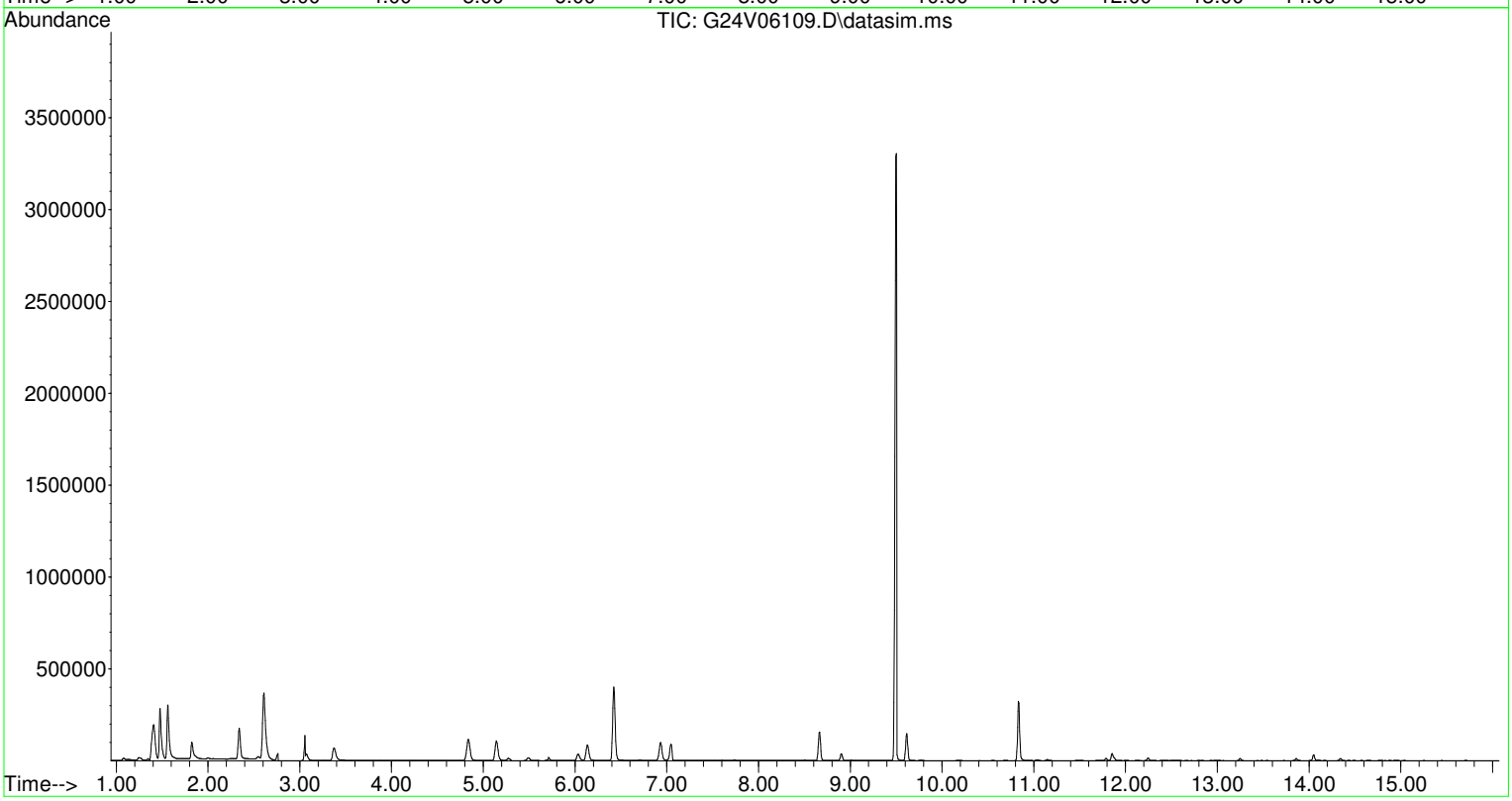
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
56) tert-Amyl Ethyl Ether ...	7.046	59	352594	18.28	ug/L	#	100
57) Dibromomethane	7.051	93	87062	8.36	ug/L		97
58) 1,4-Dioxane	7.130	88	23419	93.86	ug/L		88
59) Bromodichloromethane	7.251	83	224080	8.29	ug/L		99
61) MIBK	7.919	43	2351683	115.70	ug/L		85
62) cis-1,3-Dichloropropene	7.741	75	306110	8.77	ug/L		98
63) Toluene	8.093	91	735337	9.40	ug/L		100
64) trans-1,3-Dichloropropene	8.325	75	255923	8.46	ug/L		94
66) 1,1,2-Trichloroethane	8.504	97	170895	9.57	ug/L		95
67) 2-Hexanone (MBK)	8.787	43	1779416	115.00	ug/L		83
68) Tetrachloroethene	8.663	166	188857	9.68	ug/L		96
69) 1,3-Dichloropropane	8.673	76	286081	9.49	ug/L		94
70) Dibromochloromethane	8.901	129	199723	9.06	ug/L		94
71) 1,2-Dibromoethane	9.006	107	187906	9.71	ug/L		95
74) Chlorobenzene	9.526	112	515431	10.00	ug/L		98
75) 1,1,1,2-Tetrachloroethane	9.612	131	176123	8.92	ug/L		98
76) Ethylbenzene	9.653	91	813920	9.87	ug/L		99
77) m/p-Xylenes	9.775	91	1261020	19.69	ug/L		96
78) o-Xylene	10.174	91	631859	9.14	ug/L		95
79) Styrene	10.183	104	559184	9.57	ug/L		100
80) Bromoform	10.346	173	121176	8.10	ug/L		97
81) Isopropylbenzene	10.550	105	784189	9.21	ug/L		97
83) 1,1,2,2-Tetrachloroethane	10.835	83	240629	10.04	ug/L		99
84) 1,4-Dichloro-2-butene(...	10.894	53	72321	7.51	ug/L		90
85) Bromobenzene	10.835	77	327427	9.30	ug/L		93
86) 1,2,3-Trichloropropane	10.876	75	227076	8.29	ug/L		92
87) n-Propylbenzene	10.966	91	929802	9.60	ug/L		100
88) 2-Chlorotoluene	11.039	91	533071	9.22	ug/L		97
89) 1,3,5-Trimethylbenzene	11.147	105	682289	9.43	ug/L		98
90) 4-Chlorotoluene	11.147	91	665451	9.43	ug/L		97
92) tert-Butylbenzene	11.473	119	577561	8.43	ug/L		100
93) 1,2,4-Trimethylbenzene	11.519	105	684664	8.50	ug/L		90
94) sec-Butylbenzene	11.695	105	850071	8.94	ug/L		97
95) 1,3-Dichlorobenzene	11.786	146	399862	8.50	ug/L		99
96) p-Isopropyltoluene	11.845	119	769479	8.99	ug/L		99
97) 1,4-Dichlorobenzene	11.876	146	415387	8.86	ug/L		96
98) 1,2,3-Trimethylbenzene	11.940	105	712941	8.39	ug/L	#	100
99) n-Butylbenzene	12.252	91	724826	9.07	ug/L		99
100) 1,2-Dichlorobenzene	12.248	146	384885	8.75	ug/L		99
101) 1,2-Dibromo-3-chloropr...	13.017	75	43092	6.86	ug/L		90
102) 1,3,5-Trichlorobenzene	13.248	180	303453	8.00	ug/L		100
103) 1,2,4-Trichlorobenzene	13.860	180	292630	8.07	ug/L		99
104) Hexachlorobutadiene	14.050	225	132235	7.09	ug/L		99
105) Naphthalene	14.100	128	812297	9.14	ug/L		100
106) 1,2,3-Trichlorobenzene	14.344	180	276365	8.21	ug/L		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\1\data\G030124\
Data File : G24V06109.D
Acq On : 1 Mar 2024 10:48 am
Operator :
Sample : 8260 STD 10PPB Inst : GCMSVOA7
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 01 11:13:03 2024
Quant Method : X:\1\methods\GS071223-TAEE-2ND-IS.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Thu Feb 22 14:13:34 2024
Response via : Initial Calibration

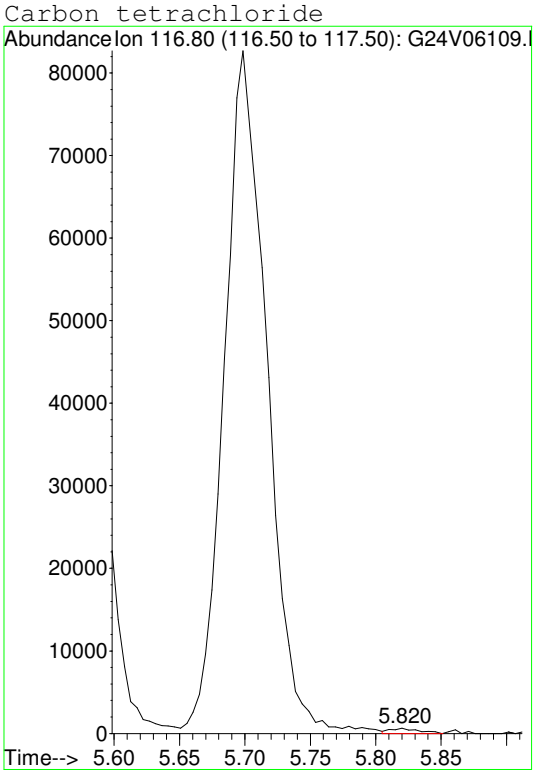




Data Path : X:\1\data\G030124\
Data File : G24V06109.D
Acq On : 1 Mar 2024 10:48 am
Operator :
Sample : 8260 STD 10PPB
Misc :

Quant Time : Fri Mar 01 11:13:03 2024
Quant Method : X:\1\methods\GS071223-TAEE-2ND-IS.M
QLast Update : Thu Feb 22 14:13:34 2024

Original Integration
Carbon tetrachloride



Original Int. Results

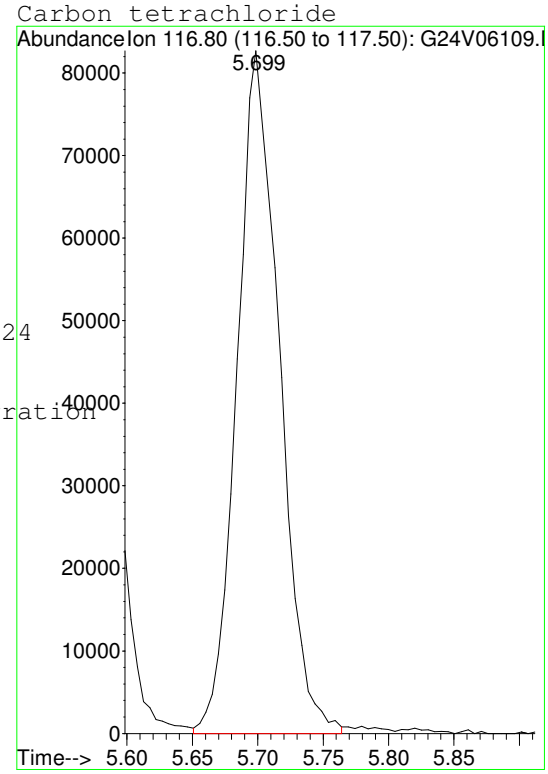
RT : 5.82
Area : 955
Amount: 0.783095

Manual Int. Results

Fri Mar 01 11:13:03 2024

MIuser: MFF
Reason: Incorret Integration
RT : 5.70
Area : 160414
Amount: 7.8468

Manual Integration
Carbon tetrachloride



Quantitation Report (QT Reviewed)

Data Path : X:\1\data\G030124\
Data File : G24V06110.D
Acq On : 1 Mar 2024 11:13 am
Operator :
Sample : 8260 STD 20PPB Inst : GCMSVOA7
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 01 11:29:36 2024
Quant Method : X:\1\methods\GS071223-TAEE-2ND-IS.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Thu Feb 22 14:13:34 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.579	168	1598305	30.00	ug/L		0.00
49) 1,4-Difluorobenzene - ...	6.421	114	2841537	30.00	ug/L		0.00
72) Chlorobenzene-d5 ISTD	9.498	82	1029744	30.00	ug/L	#	0.00
91) 1,4-Dichlorobenzene-d4...	11.854	152	1395622	30.00	ug/L		0.00
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4	5.866	65	625990	21.32	ug/L		0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 85.28%				
50) Toluene SS	8.021	98	2762194	24.93	ug/L		0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 99.72%				
73) 4-Bromofluorobenzene SS	10.690	95	1004998	23.11	ug/L		0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 92.44%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.242	85	339382	19.76	ug/L		99
4) Difluorochloromethane	1.262	51	519699	17.03	ug/L		91
5) Chloromethane	1.399	50	772580	34.49	ug/L		99
6) Vinyl chloride	1.475	62	693373	34.32	ug/L		88
7) Bromomethane	1.734	94	214202	37.27	ug/L		99
8) Chloroethane	1.820	64	344243	44.02	ug/L		96
10) Fluorodichloromethane	1.997	67	1106128	43.93	ug/L		99
11) Trichlorofluoromethane	2.058	101	844055	35.56	ug/L		99
12) Diethyl ether	2.337	59	526978	32.35	ug/L		91
13) Acrolein	2.433	56	3926	0.79	ug/L	#	1
14) Acetone	2.605	43	1716175	217.32	ug/L		89
15) 1,1-Dichloroethene	2.545	61	847990	28.67	ug/L		97
16) 1,1,2-TRICL-1,2,2-TRIF...	2.565	101	551564	26.75	ug/L		90
17) Iodomethane	2.687	142	6572725	253.86	ug/L		99
19) Methyl acetate	2.977	43	428778	24.35	ug/L		87
20) t-Butyl alcohol	3.272	59	516336	184.72	ug/L		69
21) Acrylonitrile	3.372	53	161237	22.90	ug/L		93
22) Methylene chloride	3.073	49	488247	22.73	ug/L		85
23) Carbon disulfide	2.767	76	5666513	166.61	ug/L	#	95
24) Methyl tert-butyl ethe...	3.458	73	975349	20.51	ug/L		93
25) TRANS 1,2-DICHLOROETHENE	3.420	61	512471	21.01	ug/L		99
26) 1,1-Dichloroethane	4.005	63	644277	20.56	ug/L		98
28) Vinyl acetate	4.134	43	11269880	312.37	ug/L		88
30) Di isopropyl ether	4.196	45	1468298	27.57	ug/L		86
31) 2-Butanone (MEK)	4.884	43	2164450	243.95	ug/L		87
33) t-Butyl ethyl ether	4.714	59	1185947	20.35	ug/L		97
34) cis-1,2-Dichloroethene	4.839	61	607161	21.45	ug/L		86
35) 2,2-Dichloropropane	4.834	77	527777	20.89	ug/L	#	100
36) Ethyl acetate	5.013	43	393902	23.68	ug/L		100
37) Bromochloromethane	5.139	49	358469	25.12	ug/L		85
38) Tetrahydrofuran	5.240	42	172127	27.21	ug/L		80
39) Chloroform	5.273	83	659957	24.29	ug/L	#	49
42) 1,1,1-Trichloroethane	5.489	97	548395	22.01	ug/L		96
43) Cyclohexane	5.565	56	745047	20.40	ug/L	#	26
44) Carbon tetrachloride	5.699	117	378229	17.91	ug/L	#	1
45) 1,1-Dichloropropene	5.699	75	399271	23.29	ug/L		96
46) Benzene	5.942	78	1520535	23.40	ug/L		96
47) tert-Amyl Alcohol (TAA)	6.034	59	416411	465.85	ug/L	#	55
48) T-AMYL METHYL ETHER	6.136	73	976775	19.74	ug/L		82
51) 1,2-Dichloroethane	5.958	62	453146	16.68	ug/L		84
53) Trichloroethene	6.701	95	411462	20.83	ug/L		98
54) Methylcyclohexane	6.925	83	695368	20.95	ug/L	#	84
55) 1,2-Dichloropropane	6.940	63	427914	19.77	ug/L	#	60

Data Path : X:\1\data\G030124\
Data File : G24V06110.D
Acq On : 1 Mar 2024 11:13 am
Operator :
Sample : 8260 STD 20PPB Inst : GCMSVOA7
Misc :
ALS Vial : 10 Sample Multiplier: 1

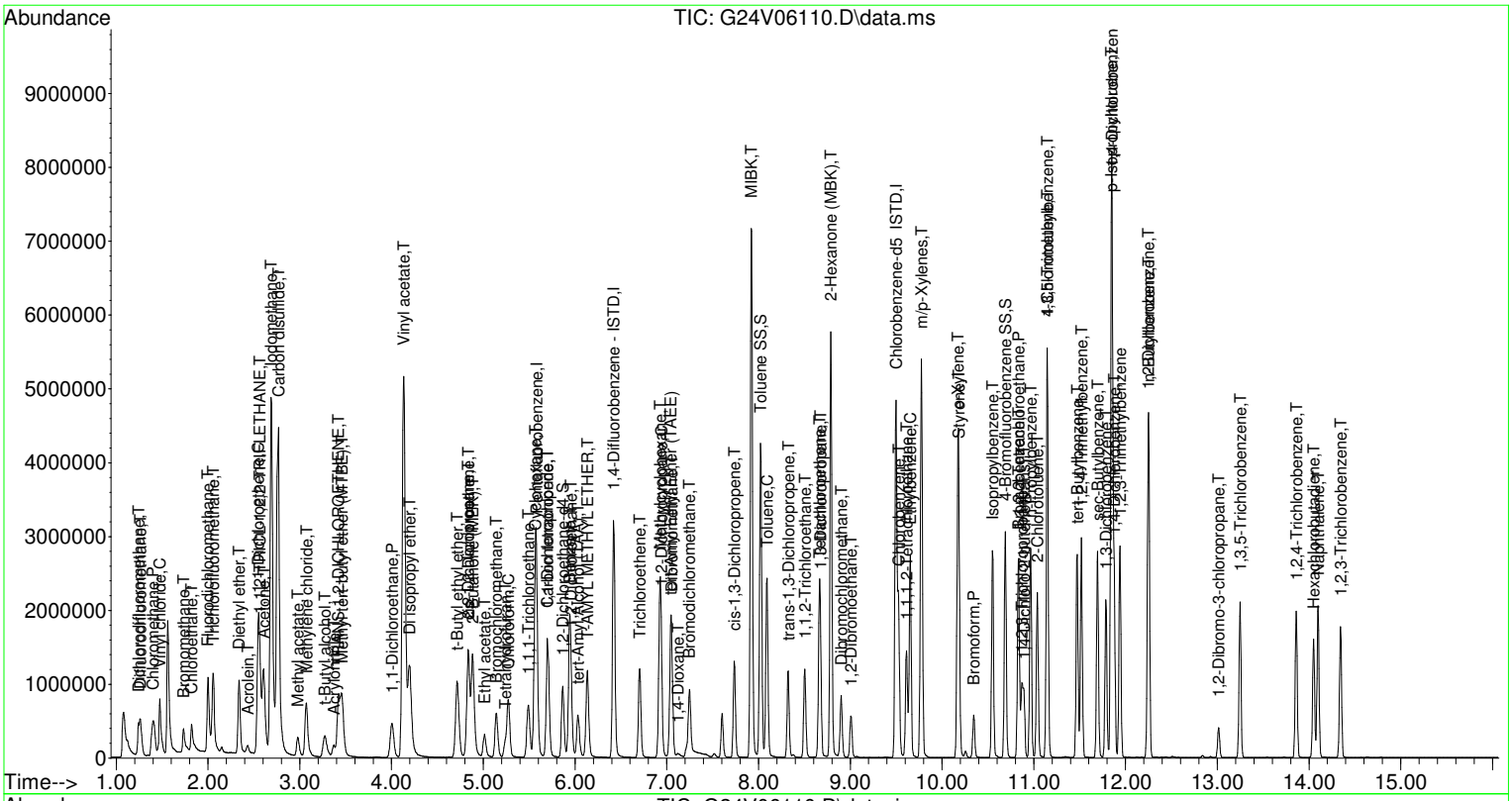
Quant Time: Mar 01 11:29:36 2024
Quant Method : X:\1\methods\GS071223-TAEE-2ND-IS.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Thu Feb 22 14:13:34 2024
Response via : Initial Calibration

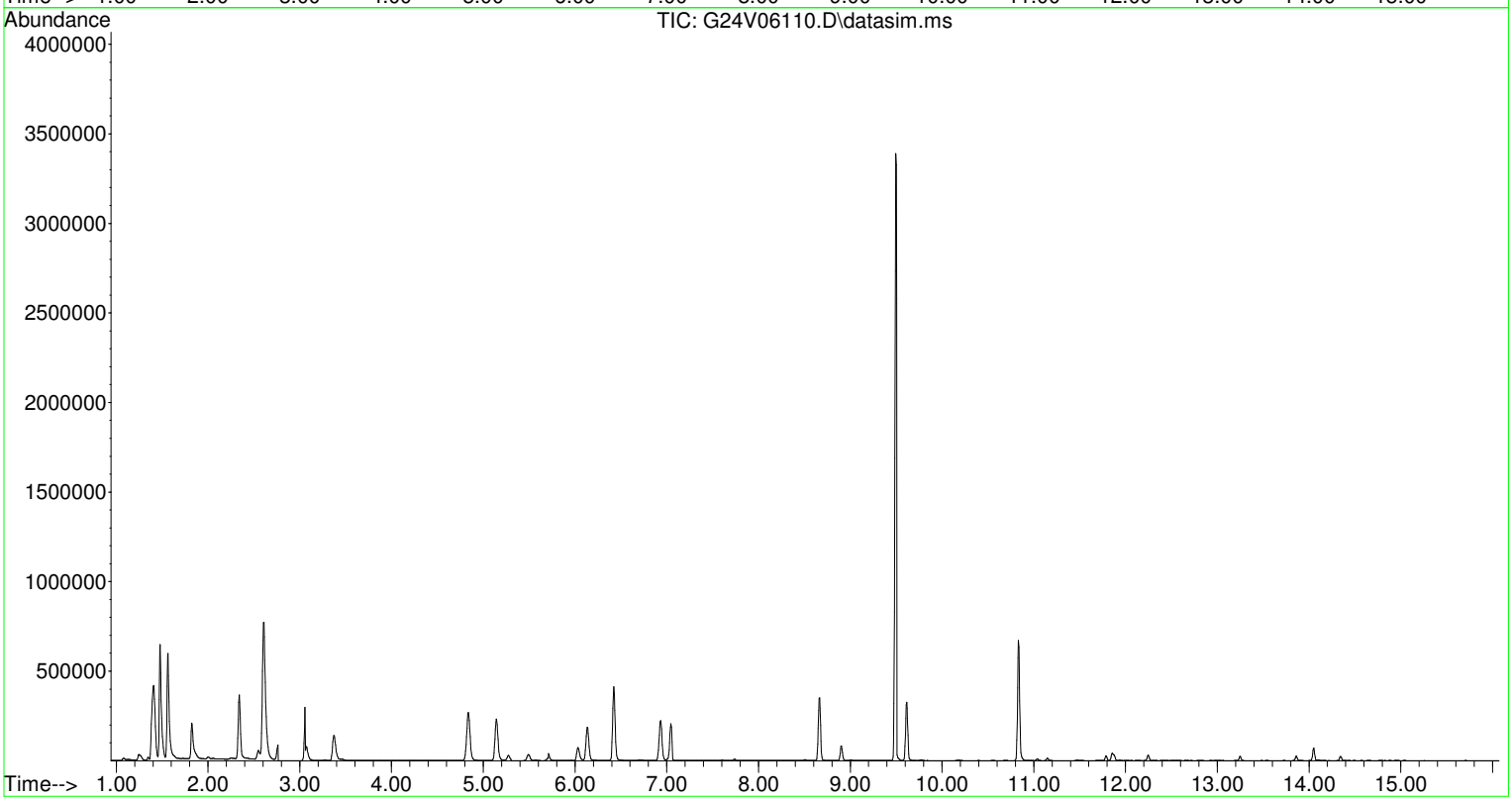
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
56) tert-Amyl Ethyl Ether ...	7.042	59	799031	41.46	ug/L	#	100
57) Dibromomethane	7.051	93	185855	17.86	ug/L		97
58) 1,4-Dioxane	7.121	88	49777	199.64	ug/L		100
59) Bromodichloromethane	7.246	83	498176	18.44	ug/L		99
61) MIBK	7.919	43	5085300	250.38	ug/L		84
62) cis-1,3-Dichloropropene	7.736	75	666321	19.10	ug/L		96
63) Toluene	8.093	91	1798403	23.01	ug/L		99
64) trans-1,3-Dichloropropene	8.325	75	558485	18.48	ug/L		94
66) 1,1,2-Trichloroethane	8.504	97	361552	20.27	ug/L		95
67) 2-Hexanone (MBK)	8.787	43	3747462	242.36	ug/L		81
68) Tetrachloroethene	8.663	166	432954	22.21	ug/L		97
69) 1,3-Dichloropropane	8.673	76	613596	20.38	ug/L		94
70) Dibromochloromethane	8.901	129	431493	19.59	ug/L		92
71) 1,2-Dibromoethane	9.006	107	391145	20.23	ug/L		98
74) Chlorobenzene	9.526	112	1147484	21.80	ug/L		98
75) 1,1,1,2-Tetrachloroethane	9.612	131	395604	19.62	ug/L		99
76) Ethylbenzene	9.653	91	1859242	22.07	ug/L		99
77) m/p-Xylenes	9.775	91	2932601	44.83	ug/L		97
78) o-Xylene	10.174	91	1458849	20.66	ug/L		96
79) Styrene	10.183	104	1272773	21.33	ug/L		99
80) Bromoform	10.346	173	260731	17.06	ug/L		98
81) Isopropylbenzene	10.550	105	1805295	20.75	ug/L		97
83) 1,1,2,2-Tetrachloroethane	10.830	83	513434	20.96	ug/L		99
84) 1,4-Dichloro-2-butene(...	10.894	53	154163	15.67	ug/L		90
85) Bromobenzene	10.830	77	740214	20.57	ug/L		91
86) 1,2,3-Trichloropropane	10.871	75	471334	16.84	ug/L		91
87) n-Propylbenzene	10.966	91	2149104	21.72	ug/L		100
88) 2-Chlorotoluene	11.039	91	1199621	20.30	ug/L		96
89) 1,3,5-Trimethylbenzene	11.147	105	1580165	21.38	ug/L		100
90) 4-Chlorotoluene	11.147	91	1530292	21.23	ug/L		95
92) tert-Butylbenzene	11.473	119	1300449	18.79	ug/L		99
93) 1,2,4-Trimethylbenzene	11.519	105	1548856	19.04	ug/L		90
94) sec-Butylbenzene	11.695	105	1933801	20.12	ug/L		98
95) 1,3-Dichlorobenzene	11.786	146	881374	18.53	ug/L		98
96) p-Isopropyltoluene	11.845	119	1760880	20.35	ug/L		100
97) 1,4-Dichlorobenzene	11.876	146	904746	19.10	ug/L		97
98) 1,2,3-Trimethylbenzene	11.940	105	1593568	18.55	ug/L	#	100
99) n-Butylbenzene	12.252	91	1689177	20.92	ug/L		97
100) 1,2-Dichlorobenzene	12.248	146	847641	19.06	ug/L		100
101) 1,2-Dibromo-3-chloropr...	13.013	75	86124	13.57	ug/L		88
102) 1,3,5-Trichlorobenzene	13.248	180	647791	16.89	ug/L		99
103) 1,2,4-Trichlorobenzene	13.860	180	618992	16.88	ug/L		99
104) Hexachlorobutadiene	14.050	225	290392	15.41	ug/L		99
105) Naphthalene	14.100	128	1656334	18.44	ug/L		100
106) 1,2,3-Trichlorobenzene	14.344	180	569007	16.73	ug/L		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\1\data\G030124\
Data File : G24V06110.D
Acq On : 1 Mar 2024 11:13 am
Operator :
Sample : 8260 STD 20PPB Inst : GCMSVOA7
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 01 11:29:36 2024
Quant Method : X:\1\methods\GS071223-TAEE-2ND-IS.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Thu Feb 22 14:13:34 2024
Response via : Initial Calibration





Quantitation Report (QT Reviewed)

Data Path : X:\1\data\G030124\
Data File : G24V06111.D
Acq On : 1 Mar 2024 11:39 am
Operator :
Sample : 8260 STD 50PPB Inst : GCMSVOA7
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 01 11:59:49 2024
Quant Method : X:\1\methods\GS071223-TAEE-2ND-IS.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Thu Feb 22 14:13:34 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.574	168	1799722	30.00	ug/L		0.00
49) 1,4-Difluorobenzene - ...	6.420	114	2937124	30.00	ug/L		0.00
72) Chlorobenzene-d5 ISTD	9.498	82	1100955	30.00	ug/L	#	0.00
91) 1,4-Dichlorobenzene-d4...	11.854	152	1517070	30.00	ug/L	#	0.00
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4	5.866	65	643015	19.45	ug/L		0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 77.80%				
50) Toluene SS	8.026	98	2903484	25.35	ug/L		0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 101.40%				
73) 4-Bromofluorobenzene SS	10.690	95	1059479	22.78	ug/L		0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 91.12%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.237	85	1039351	53.73	ug/L		99
4) Difluorochloromethane	1.257	51	1612603	47.14	ug/L		90
5) Chloromethane	1.404	50	2395396	94.98	ug/L		99
6) Vinyl chloride	1.470	62	2137063	93.94	ug/L		89
7) Bromomethane	1.728	94	496684	76.74	ug/L		99
8) Chloroethane	1.814	64	742182	84.28	ug/L		96
10) Fluorodichloromethane	1.997	67	3233848	114.05	ug/L		99
11) Trichlorofluoromethane	2.048	101	2556451	95.66	ug/L		99
12) Diethyl ether	2.337	59	1488461	81.16	ug/L		91
13) Acrolein	2.433	56	11312	2.01	ug/L	#	1
14) Acetone	2.605	43	4696487	528.16	ug/L		89
15) 1,1-Dichloroethene	2.539	61	2121116	63.69	ug/L		95
16) 1,1,2-TRICL-1,2,2-TRIF...	2.560	101	1419193	63.06	ug/L		95
17) Iodomethane	2.681	142	20943810	718.38	ug/L		97
19) Methyl acetate	2.977	43	1199955	60.52	ug/L		88
20) t-Butyl alcohol	3.277	59	1475296	468.71	ug/L		68
21) Acrylonitrile	3.367	53	436928	55.10	ug/L		95
22) Methylene chloride	3.068	49	1427535	59.03	ug/L		84
23) Carbon disulfide	2.747	76	18071690	471.89	ug/L	#	91
24) Methyl tert-butyl ethe...	3.458	73	2888482	53.94	ug/L		93
25) TRANS 1,2-DICHLOROETHENE	3.420	61	1617527	58.88	ug/L		100
26) 1,1-Dichloroethane	4.000	63	1968038	55.77	ug/L		98
28) Vinyl acetate	4.124	43	26662261m	656.29	ug/L		
30) Di isopropyl ether	4.196	45	4805076	80.14	ug/L		83
31) 2-Butanone (MEK)	4.884	43	6474619	648.08	ug/L		86
33) t-Butyl ethyl ether	4.714	59	3565536	54.35	ug/L		96
34) cis-1,2-Dichloroethene	4.834	61	1902181	59.68	ug/L		88
35) 2,2-Dichloropropane	4.834	77	1669499	58.68	ug/L	#	100
36) Ethyl acetate	5.013	43	1100070	58.73	ug/L		100
37) Bromochloromethane	5.143	49	1025505	63.81	ug/L		84
38) Tetrahydrofuran	5.235	42	470548	66.05	ug/L		81
39) Chloroform	5.273	83	1985788	64.91	ug/L	#	49
42) 1,1,1-Trichloroethane	5.493	97	1702745	60.68	ug/L		96
43) Cyclohexane	5.565	56	2331859	57.35	ug/L	#	27
44) Carbon tetrachloride	5.698	117	1241563	50.80	ug/L	#	1
45) 1,1-Dichloropropene	5.698	75	1278922	66.26	ug/L		97
46) Benzene	5.942	78	4863366	66.47	ug/L		95
47) tert-Amyl Alcohol (TAA)	6.034	59	1225196	1217.26	ug/L	#	55
48) T-AMYL METHYL ETHER	6.135	73	2959025	53.12	ug/L		82
51) 1,2-Dichloroethane	5.957	62	1391953	49.56	ug/L		84
53) Trichloroethene	6.701	95	1280610	62.71	ug/L		97
54) Methylcyclohexane	6.925	83	2339593	68.19	ug/L	#	84
55) 1,2-Dichloropropane	6.934	63	1335301	59.69	ug/L	#	55

Data Path : X:\1\data\G030124\
Data File : G24V06111.D
Acq On : 1 Mar 2024 11:39 am
Operator :
Sample : 8260 STD 50PPB Inst : GCMSVOA7
Misc :
ALS Vial : 11 Sample Multiplier: 1

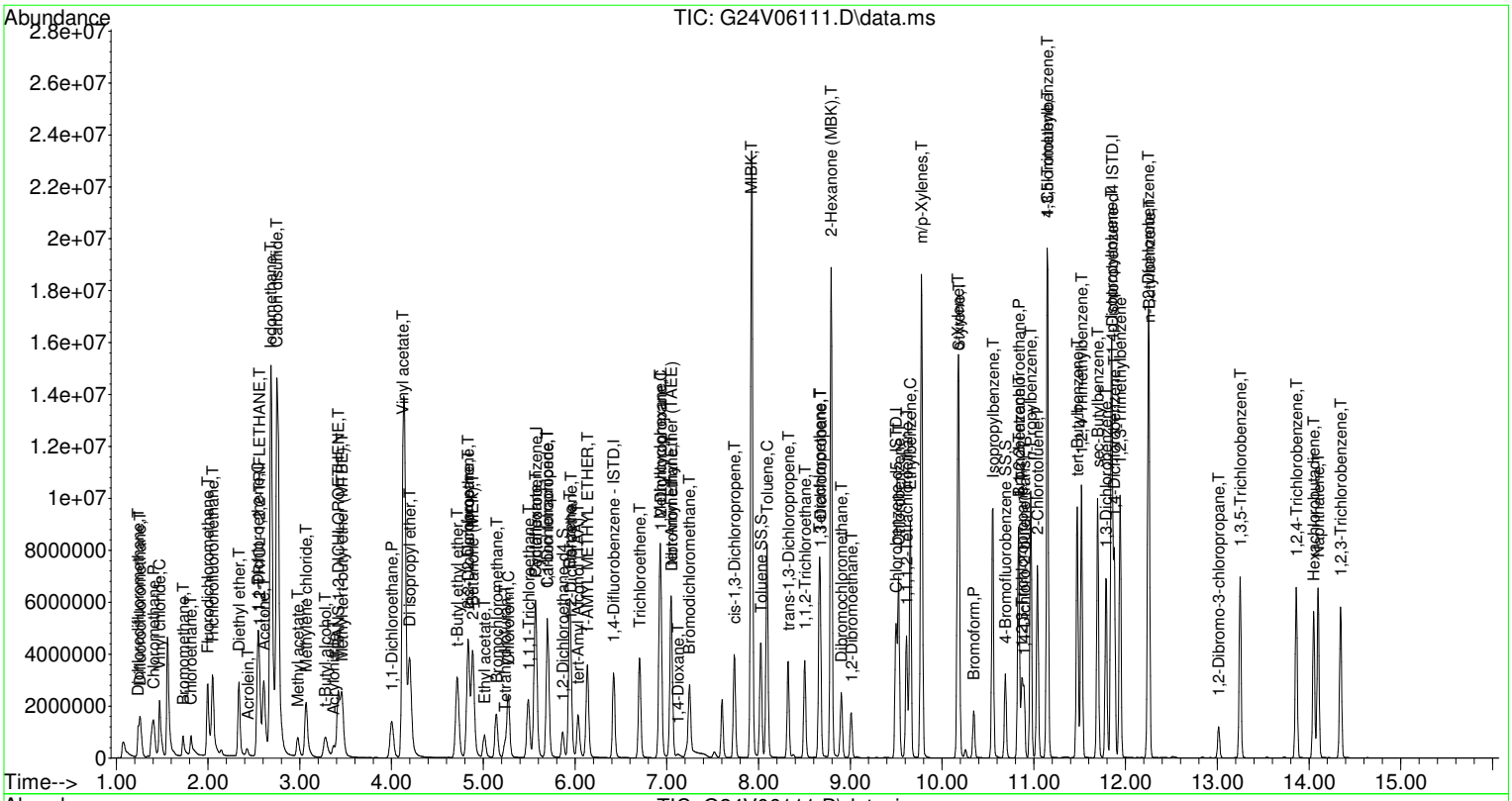
Quant Time: Mar 01 11:59:49 2024
Quant Method : X:\1\methods\GS071223-TAEE-2ND-IS.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Thu Feb 22 14:13:34 2024
Response via : Initial Calibration

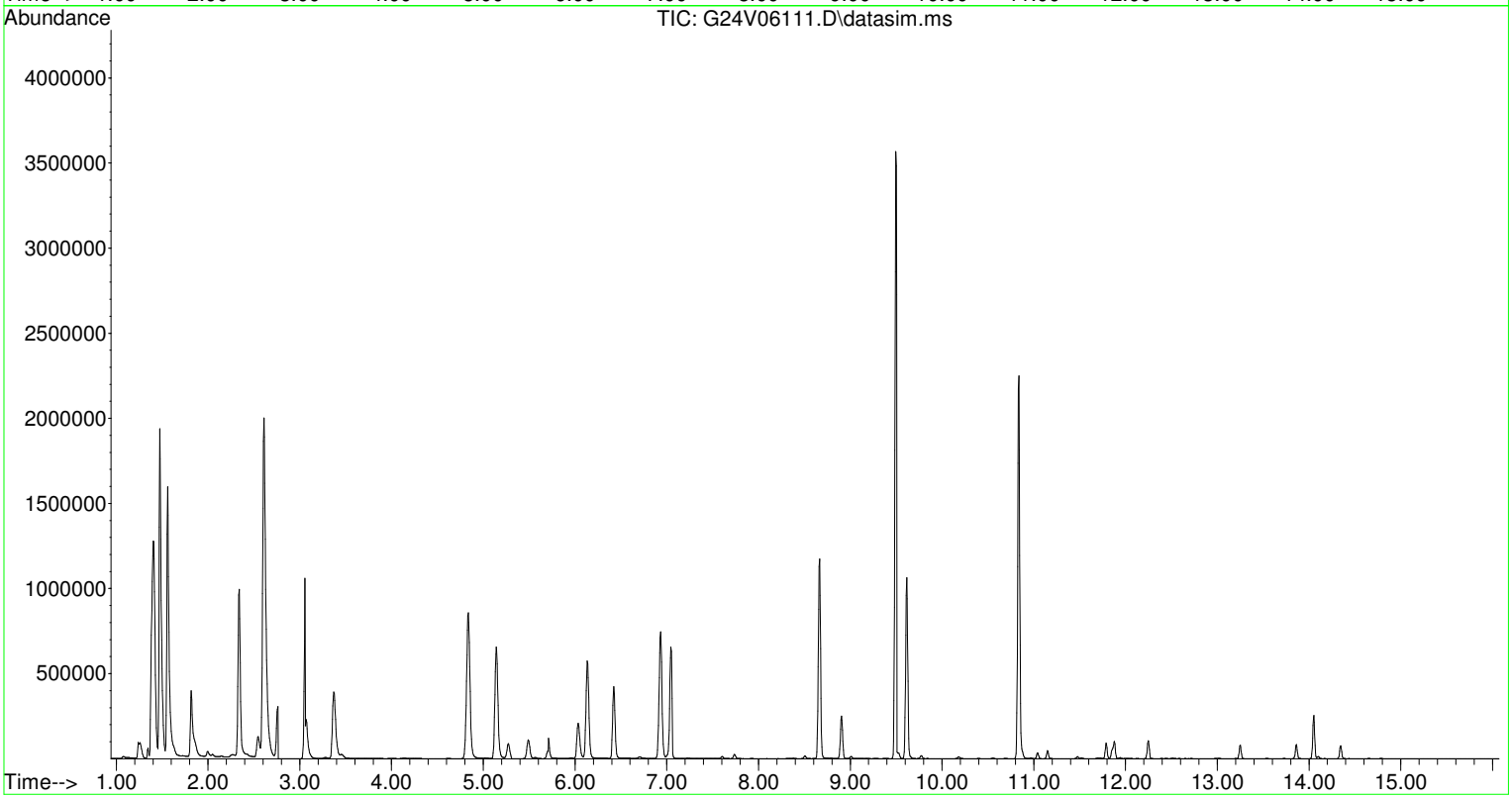
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
56) tert-Amyl Ethyl Ether ...	7.046	59	2526576	126.83 ug/L #	100
57) Dibromomethane	7.051	93	554906	51.58 ug/L	96
58) 1,4-Dioxane	7.121	88	136656	530.26 ug/L	96
59) Bromodichloromethane	7.246	83	1547093	55.39 ug/L	100
61) MIBK	7.919	43	15593970	742.80 ug/L	87
62) cis-1,3-Dichloropropene	7.735	75	2053964	56.95 ug/L	98
63) Toluene	8.093	91	5773429	71.47 ug/L	100
64) trans-1,3-Dichloropropene	8.324	75	1735666	55.55 ug/L	95
66) 1,1,2-Trichloroethane	8.503	97	1092760	59.26 ug/L	95
67) 2-Hexanone (MBK)	8.792	43	12106814	757.52 ug/L	82
68) Tetrachloroethene	8.662	166	1401006	69.53 ug/L	97
69) 1,3-Dichloropropane	8.672	76	1905677	61.23 ug/L	93
70) Dibromochloromethane	8.901	129	1342522	58.97 ug/L	93
71) 1,2-Dibromoethane	9.011	107	1167221	58.40 ug/L	98
74) Chlorobenzene	9.526	112	3675064	65.30 ug/L	98
75) 1,1,1,2-Tetrachloroethane	9.612	131	1251390	58.04 ug/L	99
76) Ethylbenzene	9.653	91	6191829	68.75 ug/L	100
77) m/p-Xylenes	9.775	91	10235509	146.35 ug/L	99
78) o-Xylene	10.174	91	4996731	66.20 ug/L	99
79) Styrene	10.183	104	4339431	68.01 ug/L	98
80) Bromoform	10.346	173	829069	50.74 ug/L	97
81) Isopropylbenzene	10.554	105	6158682	66.20 ug/L	99
83) 1,1,2,2-Tetrachloroethane	10.835	83	1638350	62.57 ug/L	100
84) 1,4-Dichloro-2-butene(...	10.894	53	474299	45.11 ug/L	91
85) Bromobenzene	10.835	77	2436768	63.34 ug/L	88
86) 1,2,3-Trichloropropane	10.871	75	1439955	48.13 ug/L	91
87) n-Propylbenzene	10.966	91	7364318	69.60 ug/L	98
88) 2-Chlorotoluene	11.038	91	4028591	63.77 ug/L	99
89) 1,3,5-Trimethylbenzene	11.147	105	5695630	72.09 ug/L	97
90) 4-Chlorotoluene	11.147	91	5479629	71.10 ug/L	91
92) tert-Butylbenzene	11.473	119	4482651	59.58 ug/L	99
93) 1,2,4-Trimethylbenzene	11.518	105	5473604	61.89 ug/L	88
94) sec-Butylbenzene	11.695	105	6842822	65.49 ug/L	96
95) 1,3-Dichlorobenzene	11.786	146	2897626	56.06 ug/L	99
96) p-Isopropyltoluene	11.844	119	6125254	65.12 ug/L	99
97) 1,4-Dichlorobenzene	11.876	146	2985989	57.99 ug/L	98
98) 1,2,3-Trimethylbenzene	11.940	105	5521664	59.13 ug/L #	100
99) n-Butylbenzene	12.257	91	6353750	72.39 ug/L	94
100) 1,2-Dichlorobenzene	12.247	146	2798874	57.91 ug/L	98
101) 1,2-Dibromo-3-chloropr...	13.013	75	254076	36.83 ug/L	89
102) 1,3,5-Trichlorobenzene	13.248	180	2137462	51.28 ug/L	99
103) 1,2,4-Trichlorobenzene	13.860	180	1997552	50.13 ug/L	100
104) Hexachlorobutadiene	14.050	225	1009706	49.28 ug/L	98
105) Naphthalene	14.100	128	5141905	52.65 ug/L	99
106) 1,2,3-Trichlorobenzene	14.344	180	1808225	48.91 ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\1\data\G030124\
Data File : G24V06111.D
Acq On : 1 Mar 2024 11:39 am
Operator :
Sample : 8260 STD 50PPB Inst : GCMSVOA7
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 01 11:59:49 2024
Quant Method : X:\1\methods\GS071223-TAEE-2ND-IS.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Thu Feb 22 14:13:34 2024
Response via : Initial Calibration

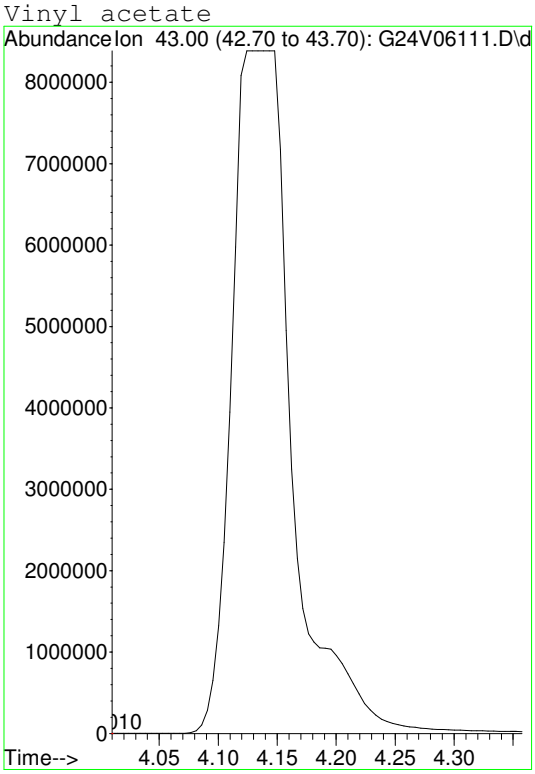




Data Path : X:\1\data\G030124\
Data File : G24V06111.D
Acq On : 1 Mar 2024 11:39 am
Operator :
Sample : 8260 STD 50PPB
Misc :

Quant Time : Fri Mar 01 11:59:49 2024
Quant Method : X:\1\methods\GS071223-TAEE-2ND-IS.M
QLast Update : Thu Feb 22 14:13:34 2024

Original Integration
Vinyl acetate



Original Int. Results

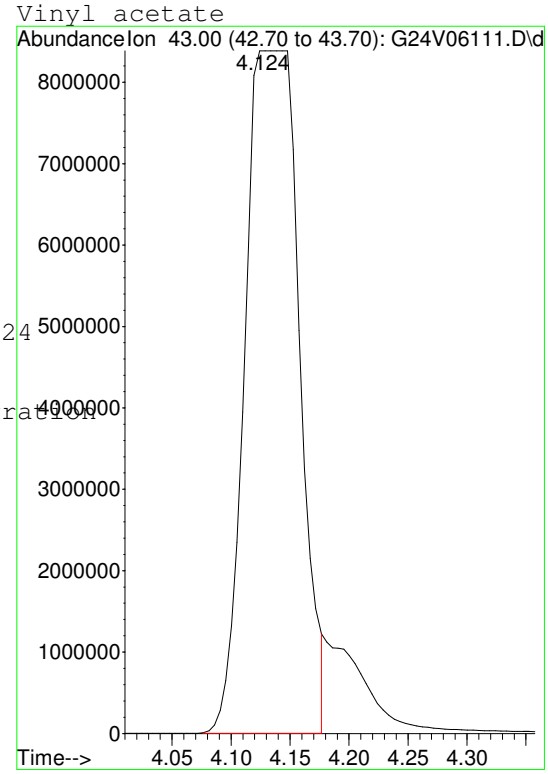
RT : 0.00
Area : 0
Amount: 0

Manual Int. Results

Fri Mar 01 11:59:49 2024

MIuser: MFF
Reason: Incorret Integration
RT : 4.12
Area : 2.66623e+007
Amount: 656.291

Manual Integration
Vinyl acetate



Quantitation Report (QT Reviewed)

Data Path : X:\1\data\G030124\
Data File : G24V06112.D
Acq On : 1 Mar 2024 12:05 pm
Operator :
Sample : 8260 STD 100PPB Inst : GCMSVOA7
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 01 13:14:03 2024
Quant Method : X:\1\methods\GS071223-TAEE-2ND-IS.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Thu Feb 22 14:13:34 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.579	168	1741581	30.00	ug/L		0.00
49) 1,4-Difluorobenzene - ...	6.420	114	2983981	30.00	ug/L		0.00
72) Chlorobenzene-d5 ISTD	9.498	82	1114595	30.00	ug/L	#	0.00
91) 1,4-Dichlorobenzene-d4...	11.854	152	1539317	30.00	ug/L	#	0.00
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4	5.866	65	650896	20.35	ug/L		0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 81.40%				
50) Toluene SS	8.026	98	3024285	26.00	ug/L		0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 104.00%				
73) 4-Bromofluorobenzene SS	10.690	95	1080733	22.96	ug/L		0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 91.84%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.237	85	1064481	56.87	ug/L		100
4) Difluorochloromethane	1.262	51	2613170	79.02	ug/L		90
5) Chloromethane	1.404	50	3729845	152.82	ug/L		98
6) Vinyl chloride	1.470	62	3295745	149.71	ug/L		89
7) Bromomethane	1.723	94	760247	121.39	ug/L		100
8) Chloroethane	1.804	64	774756	90.91	ug/L		96
10) Fluorodichloromethane	1.992	67	5687487	207.28	ug/L		99
11) Trichlorofluoromethane	2.043	101	4401629	170.20	ug/L		100
12) Diethyl ether	2.337	59	2822053	159.01	ug/L		91
13) Acrolein	2.423	56	20370	3.74	ug/L	#	1
14) Acetone	2.610	43	12715468	1477.69	ug/L		88
15) 1,1-Dichloroethene	2.539	61	4833398	149.97	ug/L		99
16) 1,1,2-TRICL-1,2,2-TRIF...	2.555	101	3085779	143.59	ug/L		88
17) Iodomethane	2.671	142	30187432m	1070.01	ug/L		
19) Methyl acetate	2.977	43	2893690	150.81	ug/L		88
20) t-Butyl alcohol	3.291	59	3124582	1025.85	ug/L		68
21) Acrylonitrile	3.372	53	893785	116.49	ug/L		97
22) Methylene chloride	3.068	49	2725722	116.47	ug/L		83
23) Carbon disulfide	2.737	76	29719698m	801.94	ug/L		
24) Methyl tert-butyl ethe...	3.458	73	5817994	112.27	ug/L		94
25) TRANS 1,2-DICHLOROETHENE	3.415	61	3159627	118.86	ug/L		99
26) 1,1-Dichloroethane	4.000	63	3848555	112.71	ug/L		98
30) Di isopropyl ether	4.200	45	9845213	169.68	ug/L		82
31) 2-Butanone (MEK)	4.889	43	15912555	1645.95	ug/L		85
33) t-Butyl ethyl ether	4.714	59	7254080	114.26	ug/L		96
34) cis-1,2-Dichloroethene	4.834	61	3857024	125.05	ug/L		88
35) 2,2-Dichloropropane	4.834	77	3390390	123.15	ug/L	#	100
36) Ethyl acetate	5.013	43	2296479	126.69	ug/L		100
37) Bromochloromethane	5.138	49	1934030	124.36	ug/L		83
38) Tetrahydrofuran	5.235	42	983311	142.64	ug/L		82
39) Chloroform	5.273	83	3982336	134.52	ug/L	#	49
42) 1,1,1-Trichloroethane	5.488	97	3369611	124.10	ug/L		95
43) Cyclohexane	5.565	56	4517871	115.19	ug/L	#	27
44) Carbon tetrachloride	5.698	117	2548795	106.93	ug/L	#	1
45) 1,1-Dichloropropene	5.698	75	2578320	138.03	ug/L		97
46) Benzene	5.942	78	9981769	140.98	ug/L		95
47) tert-Amyl Alcohol (TAA)	6.039	59	2628281	2698.44	ug/L	#	55
48) T-AMYL METHYL ETHER	6.135	73	6154373	114.16	ug/L		82
51) 1,2-Dichloroethane	5.957	62	2903444	101.75	ug/L		84
53) Trichloroethene	6.701	95	2597446	125.20	ug/L		95
54) Methylcyclohexane	6.925	83	4745381	136.14	ug/L	#	83
55) 1,2-Dichloropropane	6.934	63	2805320	123.43	ug/L	#	57
56) tert-Amyl Ethyl Ether ...	7.046	59	5434335	268.51	ug/L	#	100

Data Path : X:\1\data\G030124\
Data File : G24V06112.D
Acq On : 1 Mar 2024 12:05 pm
Operator :
Sample : 8260 STD 100PPB Inst : GCMSVOA7
Misc :
ALS Vial : 12 Sample Multiplier: 1

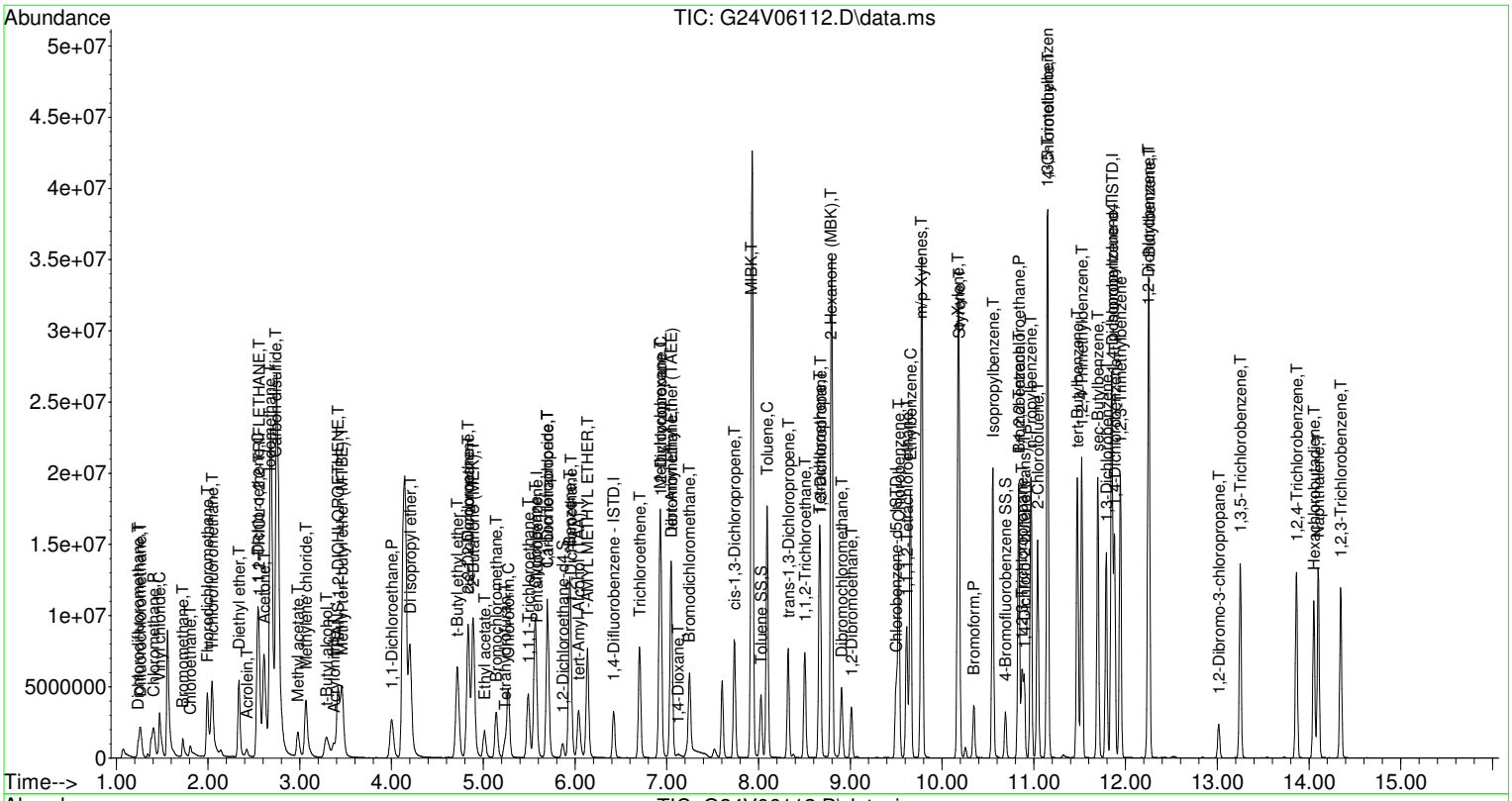
Quant Time: Mar 01 13:14:03 2024
Quant Method : X:\1\methods\GS071223-TAEE-2ND-IS.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Thu Feb 22 14:13:34 2024
Response via : Initial Calibration

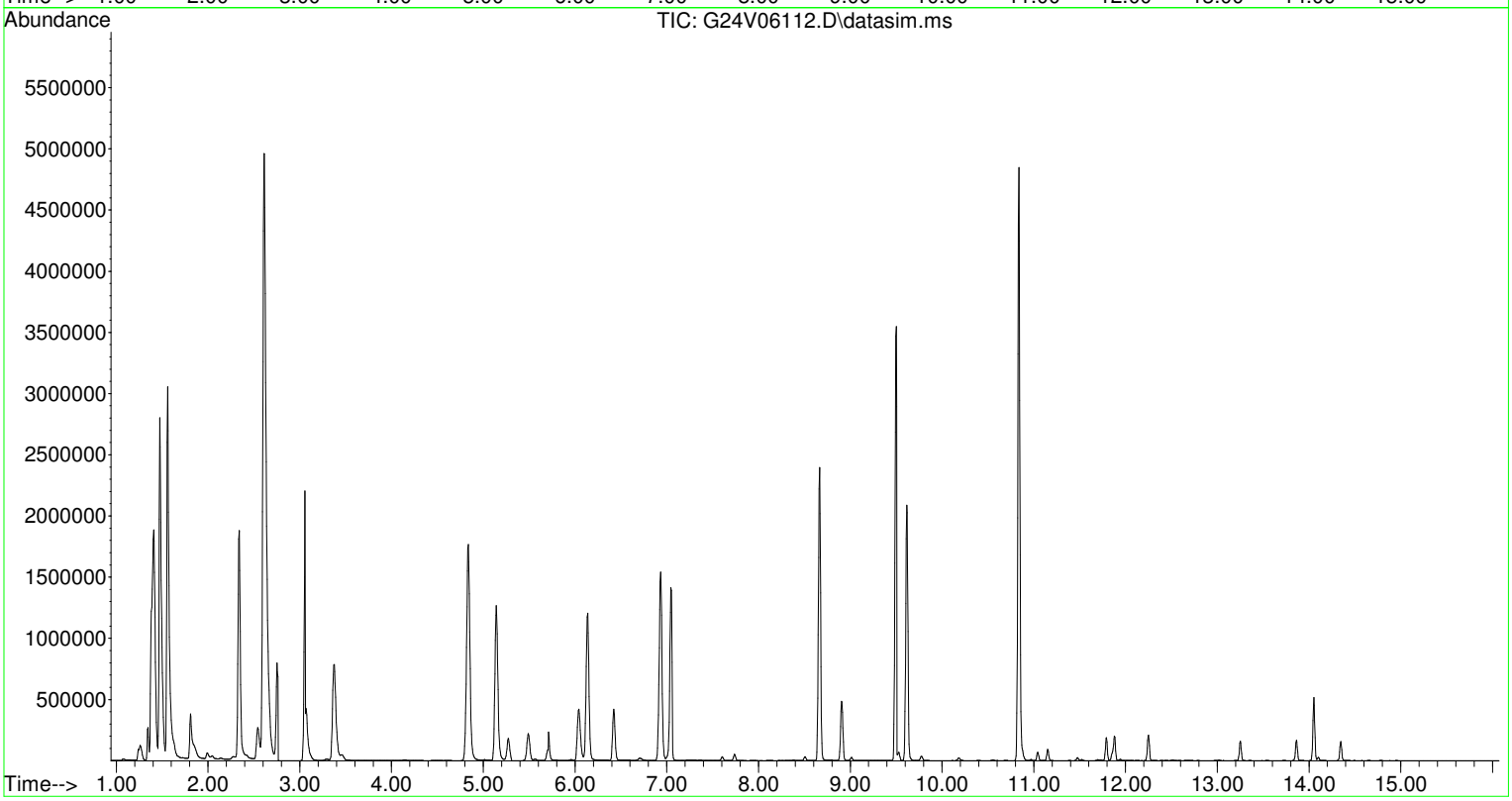
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
57) Dibromomethane	7.051	93	1147408	104.98	ug/L		95
58) 1,4-Dioxane	7.121	88	271953	1038.67	ug/L		98
59) Bromodichloromethane	7.246	83	3203007	112.87	ug/L		100
61) MIBK	7.919	43	21772991m	1020.85	ug/L		
62) cis-1,3-Dichloropropene	7.735	75	4221032	115.19	ug/L		99
63) Toluene	8.093	91	12320427	150.13	ug/L		99
64) trans-1,3-Dichloropropene	8.324	75	3573725	112.58	ug/L		96
66) 1,1,2-Trichloroethane	8.503	97	2233693	119.22	ug/L		94
67) 2-Hexanone (MBK)	8.787	43	18510860m	1140.03	ug/L		
68) Tetrachloroethene	8.663	166	2812520	137.39	ug/L		96
69) 1,3-Dichloropropane	8.672	76	4090043	129.34	ug/L		92
70) Dibromochloromethane	8.906	129	2707471	117.06	ug/L		93
71) 1,2-Dibromoethane	9.011	107	2386793	117.54	ug/L		97
74) Chlorobenzene	9.526	112	7620964	133.75	ug/L		99
75) 1,1,1,2-Tetrachloroethane	9.617	131	2510159	115.00	ug/L		99
76) Ethylbenzene	9.657	91	12758312	139.92	ug/L		100
77) m/p-Xylenes	9.771	91	16852967	238.02	ug/L		81
78) o-Xylene	10.174	91	10520938	137.68	ug/L		99
79) Styrene	10.187	104	9024950	139.71	ug/L		96
80) Bromoform	10.346	173	1675191	101.27	ug/L		97
81) Isopropylbenzene	10.554	105	12581478	133.59	ug/L		99
83) 1,1,2,2-Tetrachloroethane	10.835	83	3515999	132.63	ug/L		98
84) 1,4-Dichloro-2-butene(...	10.898	53	979270	91.99	ug/L		92
85) Bromobenzene	10.835	77	5194337	133.38	ug/L		85
86) 1,2,3-Trichloropropane	10.871	75	2937298	96.97	ug/L		91
87) n-Propylbenzene	10.966	91	14051292m	131.17	ug/L		
88) 2-Chlorotoluene	11.043	91	8361026	130.72	ug/L		99
89) 1,3,5-Trimethylbenzene	11.147	105	11471301	143.41	ug/L		97
90) 4-Chlorotoluene	11.152	91	11160684	143.04	ug/L		89
92) tert-Butylbenzene	11.473	119	9116085	119.40	ug/L		96
93) 1,2,4-Trimethylbenzene	11.523	105	11106062	123.76	ug/L		87
94) sec-Butylbenzene	11.695	105	13232512	124.82	ug/L		97
95) 1,3-Dichlorobenzene	11.790	146	5784925	110.29	ug/L		98
96) p-Isopropyltoluene	11.849	119	11859746	124.26	ug/L		99
97) 1,4-Dichlorobenzene	11.881	146	5914851	113.22	ug/L		98
98) 1,2,3-Trimethylbenzene	11.944	105	11093369	117.07	ug/L	#	100
99) n-Butylbenzene	12.257	91	12379510	139.00	ug/L		94
100) 1,2-Dichlorobenzene	12.248	146	5478138	111.70	ug/L		97
101) 1,2-Dibromo-3-chloropr...	13.017	75	518763	74.11	ug/L		89
102) 1,3,5-Trichlorobenzene	13.248	180	4155893	98.27	ug/L		99
103) 1,2,4-Trichlorobenzene	13.864	180	3915791	96.84	ug/L		99
104) Hexachlorobutadiene	14.054	225	1988052	95.62	ug/L		97
105) Naphthalene	14.100	128	10368238	104.64	ug/L		99
106) 1,2,3-Trichlorobenzene	14.344	180	3520565	93.84	ug/L		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\1\data\G030124\
Data File : G24V06112.D
Acq On : 1 Mar 2024 12:05 pm
Operator :
Sample : 8260 STD 100PPB Inst : GCMSVOA7
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 01 13:14:03 2024
Quant Method : X:\1\methods\GS071223-TAEE-2ND-IS.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Thu Feb 22 14:13:34 2024
Response via : Initial Calibration

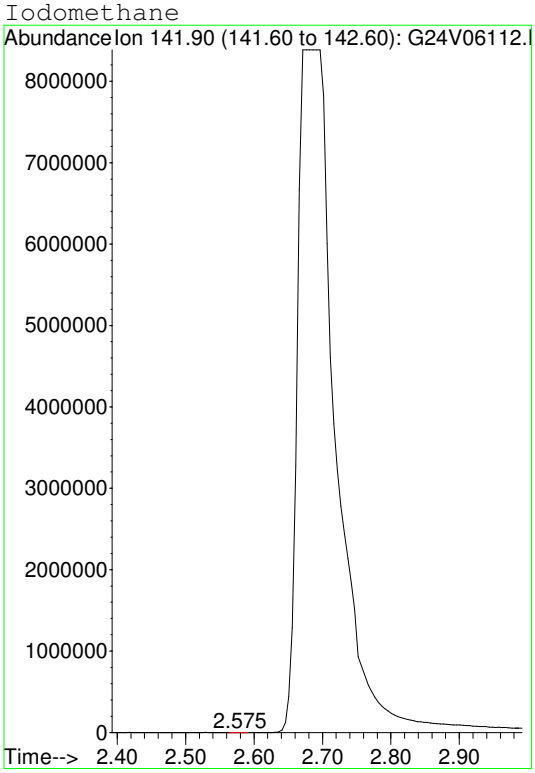




Data Path : X:\1\data\G030124\
Data File : G24V06112.D
Acq On : 1 Mar 2024 12:05 pm
Operator :
Sample : 8260 STD 100PPB
Misc :

Quant Time : Fri Mar 01 13:14:03 2024
Quant Method : X:\1\methods\GS071223-TAEE-2ND-IS.M
QLast Update : Thu Feb 22 14:13:34 2024

Original Integration
Iodomethane



Original Int. Results

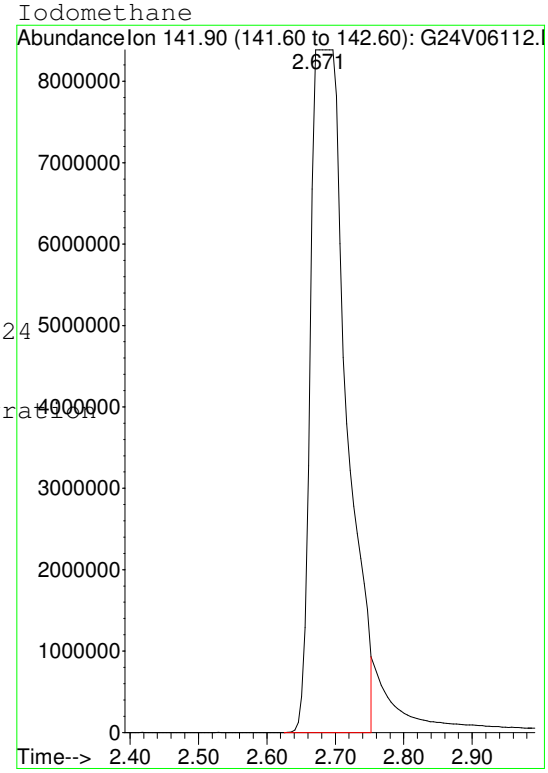
RT : 2.57
Area : 126
Amount: 0.00446612

Manual Int. Results

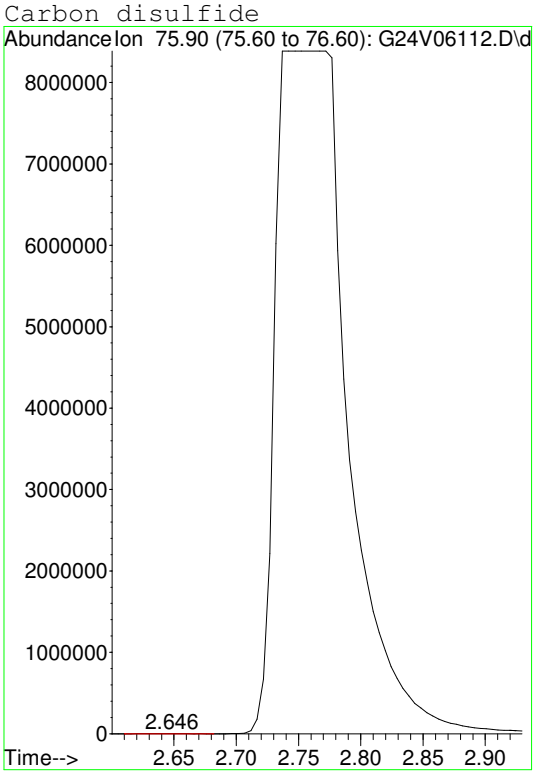
Fri Mar 01 13:11:46 2024

MIuser: MFF
Reason: Incorret Integration
RT : 2.67
Area : 3.01874e+007
Amount: 1070.01

Manual Integration
Iodomethane



Original Integration
Carbon disulfide



Original Int. Results

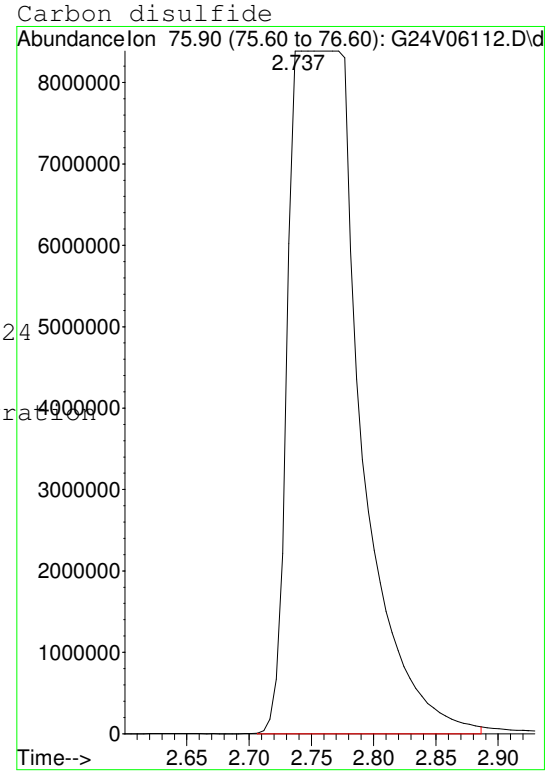
RT : 2.65
Area : 2805
Amount: 0.075689

Manual Int. Results

Fri Mar 01 13:11:57 2024

MIuser: MFF
Reason: Incorret Integration
RT : 2.74
Area : 2.97197e+007
Amount: 801.945

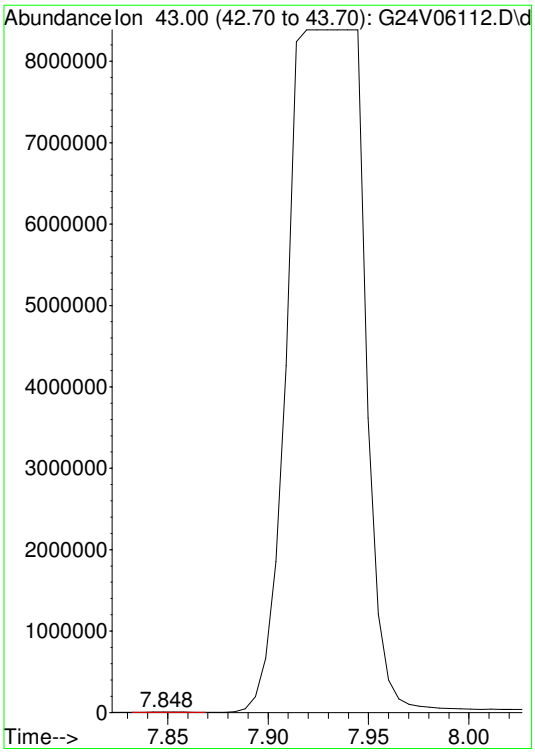
Manual Integration
Carbon disulfide



Data Path : X:\1\data\G030124\
Data File : G24V06112.D
Acq On : 1 Mar 2024 12:05 pm
Operator :
Sample : 8260 STD 100PPB
Misc :

Quant Time : Fri Mar 01 13:14:03 2024
Quant Method : X:\1\methods\GS071223-TAEE-2ND-IS.M
QLast Update : Thu Feb 22 14:13:34 2024

Original Integration
MIBK



Original Int. Results

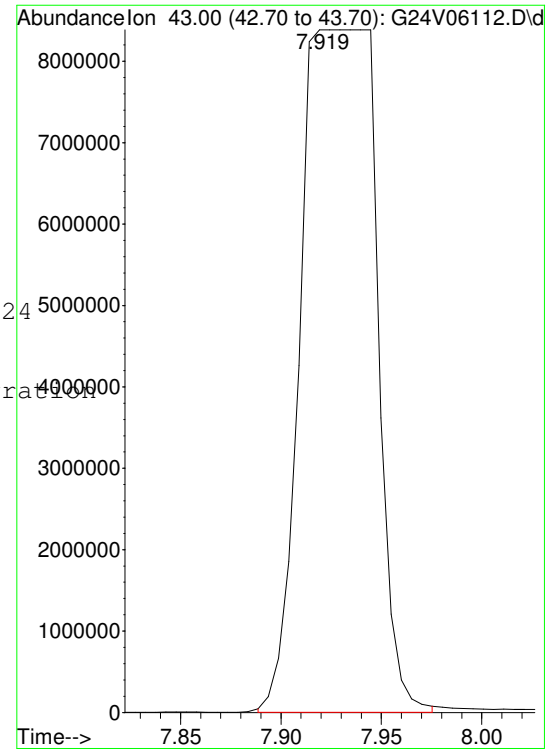
RT : 7.85
Area : 2776
Amount: 0.130155

Manual Int. Results

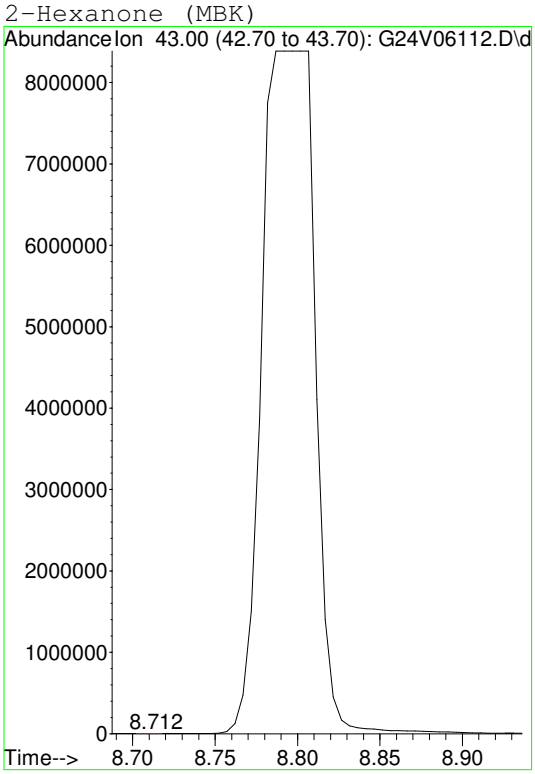
Fri Mar 01 13:13:01 2024

MIuser: MFF
Reason: Incorret Integration
RT : 7.92
Area : 2.1773e+007
Amount: 1020.85

Manual Integration
MIBK



Original Integration
2-Hexanone (MBK)



Original Int. Results

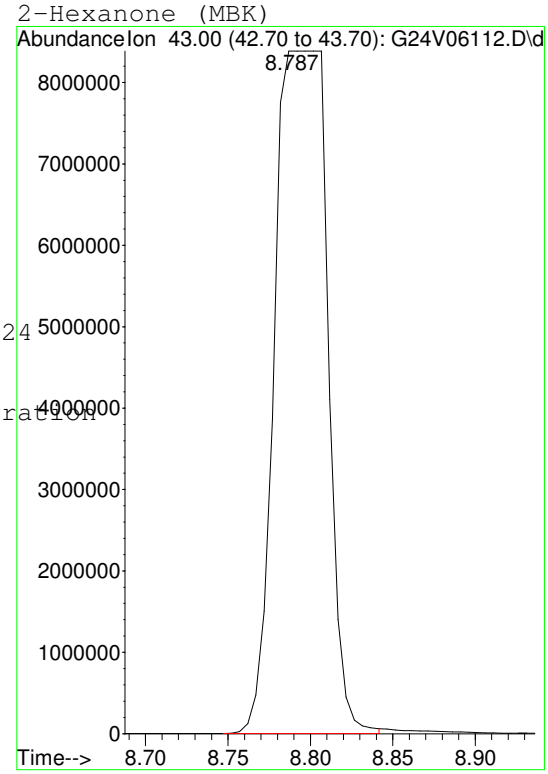
RT : 8.71
Area : 235
Amount: 0.0144729

Manual Int. Results

Fri Mar 01 13:13:24 2024

MIuser: MFF
Reason: Incorret Integration
RT : 8.79
Area : 1.85109e+007
Amount: 1140.03

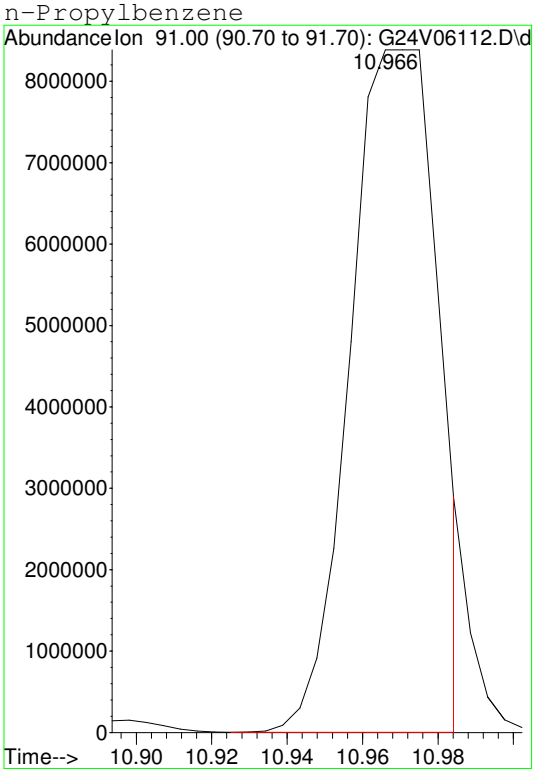
Manual Integration
2-Hexanone (MBK)



Data Path : X:\1\data\G030124\
Data File : G24V06112.D
Acq On : 1 Mar 2024 12:05 pm
Operator :
Sample : 8260 STD 100PPB
Misc :

Quant Time : Fri Mar 01 13:14:03 2024
Quant Method : X:\1\methods\GS071223-TAEE-2ND-IS.M
QLast Update : Thu Feb 22 14:13:34 2024

Original Integration
n-Propylbenzene



Original Int. Results

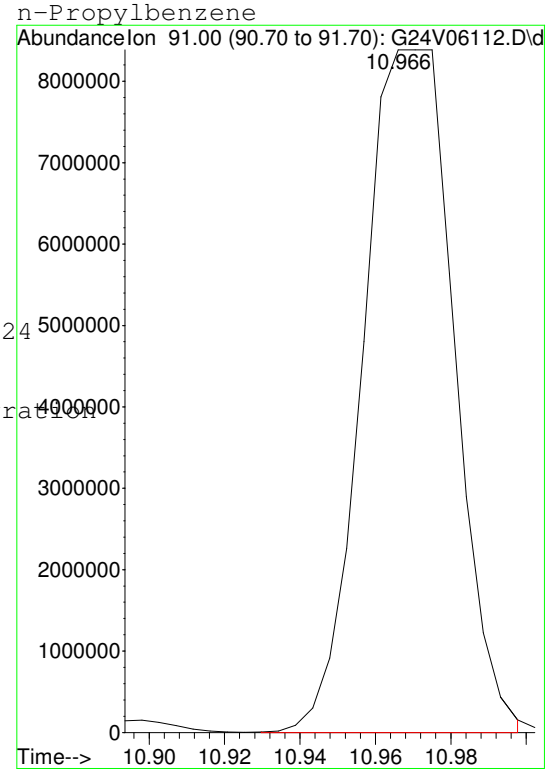
RT : 10.97
Area : 1.35478e+007
Amount: 126.471

Manual Int. Results

Fri Mar 01 13:14:03 2024

MIuser: MFF
Reason: Incorret Integration
RT : 10.97
Area : 1.40513e+007
Amount: 131.171

Manual Integration
n-Propylbenzene



Quantitation Report (QT Reviewed)

Data Path : X:\1\data\G030124\
Data File : G24V06113.D
Acq On : 1 Mar 2024 12:30 pm
Operator :
Sample : 8260 STD 200PPB Inst : GCMSVOA7
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 01 13:17:40 2024
Quant Method : X:\1\methods\GS071223-TAEE-2ND-IS.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Thu Feb 22 14:13:34 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.579	168	2026326	30.00	ug/L		0.00
49) 1,4-Difluorobenzene - ...	6.420	114	3066213	30.00	ug/L		0.00
72) Chlorobenzene-d5 ISTD	9.498	82	1136784	30.00	ug/L	#	0.00
91) 1,4-Dichlorobenzene-d4...	11.858	152	1473686	30.00	ug/L	#	0.01
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4	5.871	65	680250	18.28	ug/L		0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 73.12%				
50) Toluene SS	8.026	98	3060045	25.60	ug/L		0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 102.40%				
73) 4-Bromofluorobenzene SS	10.690	95	1117950	23.28	ug/L		0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 93.12%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.237	85	4302970	197.57	ug/L		99
4) Difluorochloromethane	1.262	51	6850640	178.20	ug/L		90
5) Chloromethane	1.409	50	10245293	360.79	ug/L		98
6) Vinyl chloride	1.470	62	8735870	341.07	ug/L		88
7) Bromomethane	1.723	94	1885928	258.81	ug/L		100
8) Chloroethane	1.799	64	1059226	106.83	ug/L		97
10) Fluorodichloromethane	1.982	67	9306419	291.51	ug/L		99
11) Trichlorofluoromethane	2.032	101	8670288	288.14	ug/L		98
12) Diethyl ether	2.337	59	5752419	278.57	ug/L		90
13) Acrolein	2.413	56	38961	6.15	ug/L	#	1
14) Acetone	2.620	43	21077698	2105.27	ug/L		88
15) 1,1-Dichloroethene	2.529	61	10536850	280.99	ug/L		98
16) 1,1,2-TRICL-1,2,2-TRIF...	2.544	101	6626286	266.28	ug/L		90
17) Iodomethane	2.661	142	48534348m	1478.58	ug/L		
19) Methyl acetate	2.982	43	5300042	237.41	ug/L		87
20) t-Butyl alcohol	3.315	59	6608121	1864.67	ug/L	#	66
21) Acrylonitrile	3.377	53	1985503	222.41	ug/L		96
22) Methylene chloride	3.063	49	6069557	222.91	ug/L		82
23) Carbon disulfide	2.727	76	39690097m	920.48	ug/L		
24) Methyl tert-butyl ethe...	3.463	73	13563446	224.96	ug/L		93
25) TRANS 1,2-DICHLOROETHENE	3.415	61	7557890	244.37	ug/L		97
26) 1,1-Dichloroethane	4.005	63	8629719	217.22	ug/L		98
30) Di isopropyl ether	4.205	45	22448609	332.53	ug/L		87
31) 2-Butanone (MEK)	4.889	43	26977996m	2398.39	ug/L		
33) t-Butyl ethyl ether	4.719	59	17148767	232.15	ug/L		95
34) cis-1,2-Dichloroethene	4.839	61	9272812	258.38	ug/L		91
35) 2,2-Dichloropropane	4.834	77	8122850	253.59	ug/L	#	100
36) Ethyl acetate	5.018	43	5280773	250.39	ug/L		100
37) Bromochloromethane	5.143	49	4103511	226.79	ug/L		84
38) Tetrahydrofuran	5.240	42	2126797	265.15	ug/L		81
39) Chloroform	5.273	83	8999132	261.26	ug/L	#	48
42) 1,1,1-Trichloroethane	5.488	97	7846798	248.37	ug/L		96
43) Cyclohexane	5.565	56	10929753	239.91	ug/L	#	27
44) Carbon tetrachloride	5.699	117	5980905	214.91	ug/L	#	1
45) 1,1-Dichloropropene	5.699	75	6072377	279.40	ug/L		98
46) Benzene	5.937	78	20861644	253.23	ug/L		93
47) tert-Amyl Alcohol (TAA)	6.049	59	5528895	4878.80	ug/L	#	54
48) T-AMYL METHYL ETHER	6.141	73	14506133	231.27	ug/L		82
51) 1,2-Dichloroethane	5.957	62	6987264	238.31	ug/L		86
53) Trichloroethene	6.701	95	6078521	285.12	ug/L		91
54) Methylcyclohexane	6.925	83	11338348	316.56	ug/L	#	82
55) 1,2-Dichloropropane	6.939	63	6720509	287.76	ug/L	#	58
56) tert-Amyl Ethyl Ether ...	7.046	59	11914120	572.89	ug/L	#	100

Data Path : X:\1\data\G030124\
Data File : G24V06113.D
Acq On : 1 Mar 2024 12:30 pm
Operator :
Sample : 8260 STD 200PPB Inst : GCMSVOA7
Misc :
ALS Vial : 13 Sample Multiplier: 1

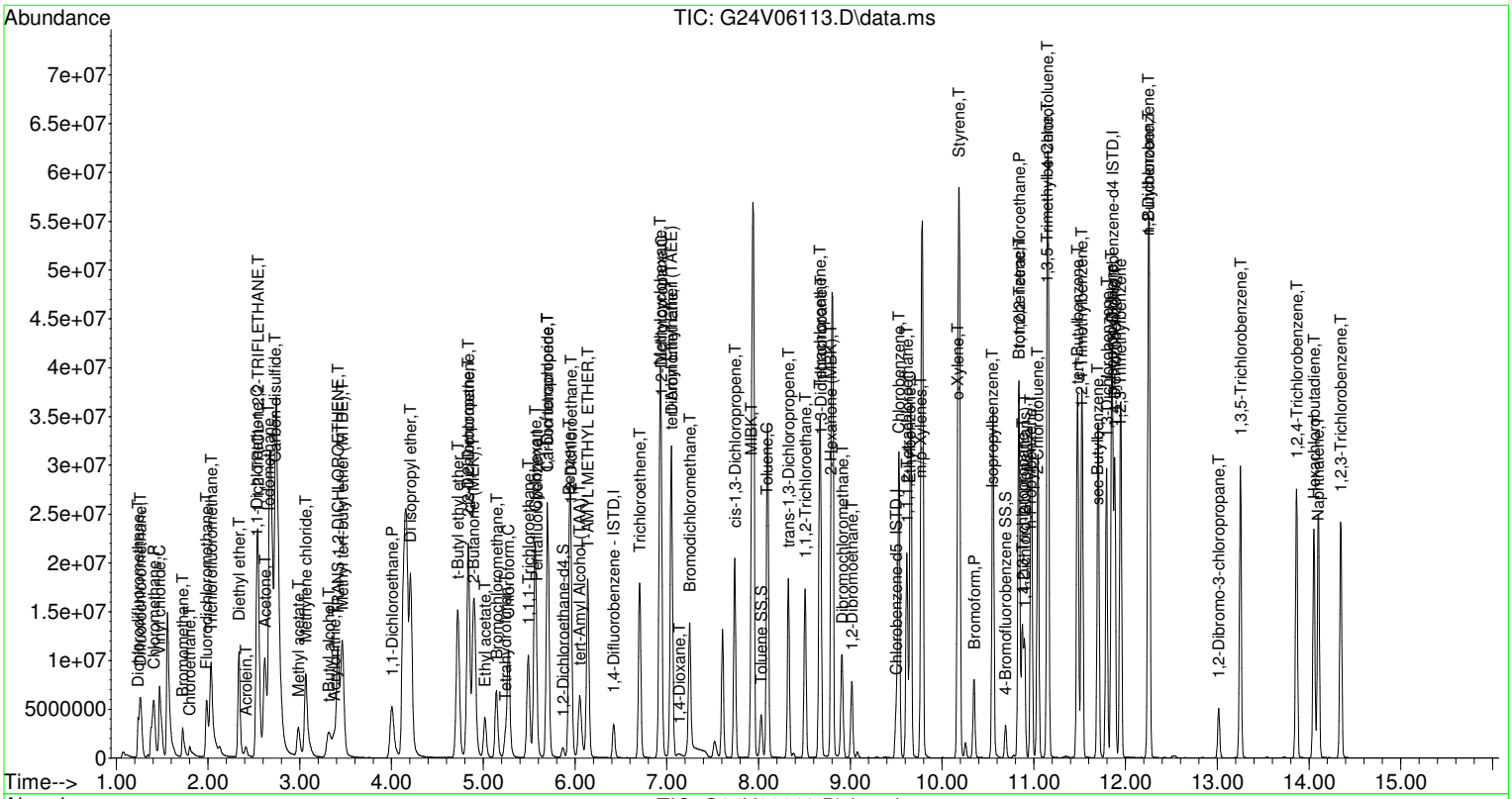
Quant Time: Mar 01 13:17:40 2024
Quant Method : X:\1\methods\GS071223-TAEE-2ND-IS.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Thu Feb 22 14:13:34 2024
Response via : Initial Calibration

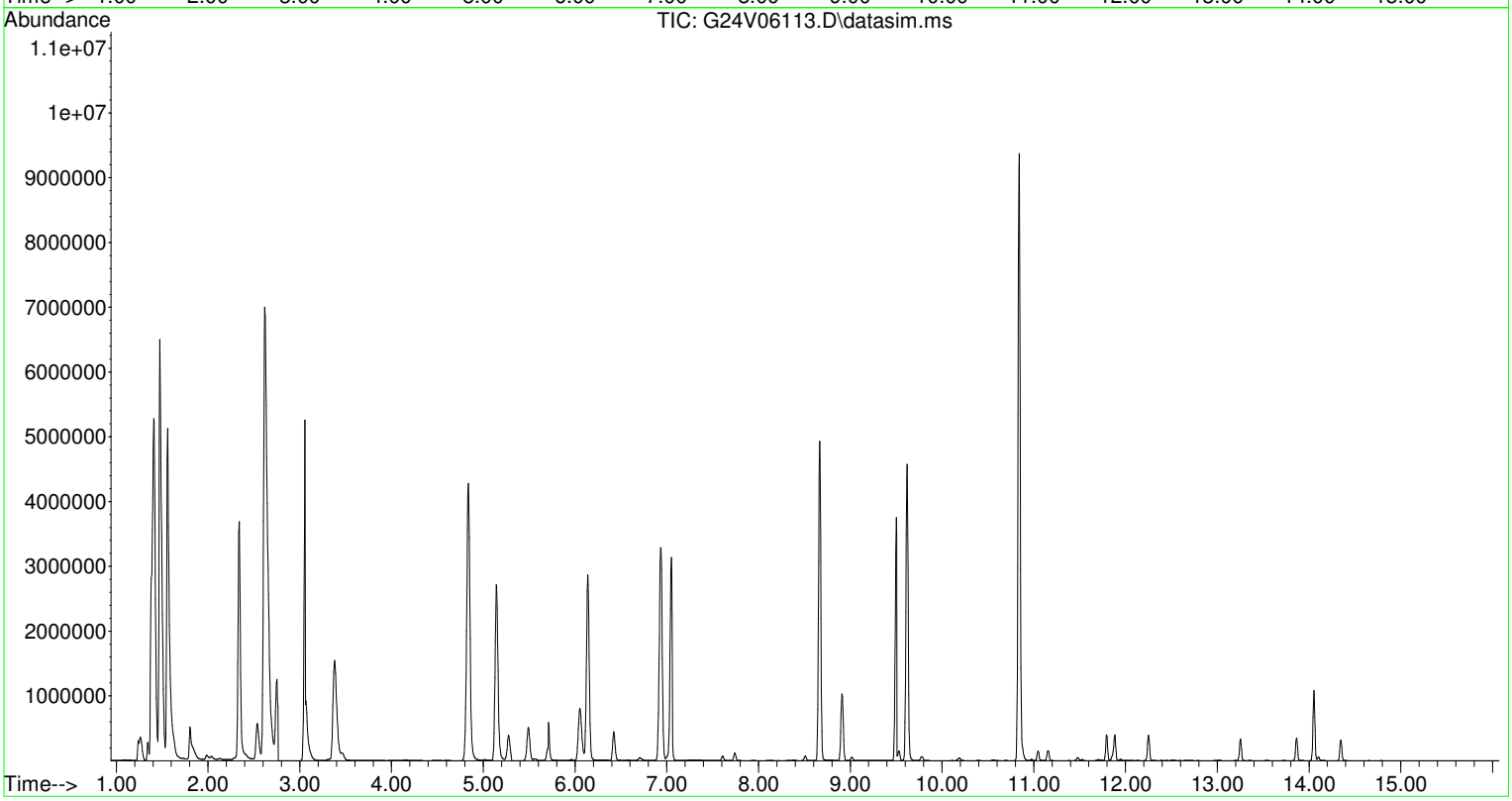
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
57) Dibromomethane	7.051	93	2365866	210.65	ug/L		91
58) 1,4-Dioxane	7.135	88	520721	1935.46	ug/L		99
59) Bromodichloromethane	7.250	83	7570595	259.62	ug/L		99
61) MIBK	7.919	43	26760491m	1221.04	ug/L		
62) cis-1,3-Dichloropropene	7.741	75	10051007	266.94	ug/L		99
63) Toluene	8.088	91	18328376m	217.35	ug/L		
64) trans-1,3-Dichloropropene	8.324	75	8481301	260.02	ug/L		99
66) 1,1,2-Trichloroethane	8.508	97	5114481	265.67	ug/L		96
67) 2-Hexanone (MBK)	8.787	43	22736811m	1362.74	ug/L		
68) Tetrachloroethene	8.668	166	6197113	294.61	ug/L		96
69) 1,3-Dichloropropane	8.678	76	9528356	293.24	ug/L		92
70) Dibromochloromethane	8.911	129	6091129	256.30	ug/L		93
71) 1,2-Dibromoethane	9.016	107	5295553	253.79	ug/L		97
74) Chlorobenzene	9.526	112	15931119	274.13	ug/L		91
75) 1,1,1,2-Tetrachloroethane	9.617	131	5691755	255.68	ug/L		99
76) Ethylbenzene	9.648	91	18470867m	198.61	ug/L		
77) m/p-Xylenes	9.766	91	21948491m	303.94	ug/L		
78) o-Xylene	10.169	91	17926681	230.01	ug/L		85
79) Styrene	10.183	104	15647308	237.50	ug/L		80
80) Bromoform	10.350	173	3685317	218.43	ug/L		97
81) Isopropylbenzene	10.545	105	18423873m	191.80	ug/L		
83) 1,1,2,2-Tetrachloroethane	10.839	83	7494109	277.17	ug/L		98
84) 1,4-Dichloro-2-butene(...	10.898	53	2161929	199.12	ug/L		92
85) Bromobenzene	10.835	77	11483002	289.10	ug/L		82
86) 1,2,3-Trichloropropane	10.875	75	8229545m	266.39	ug/L		
87) n-Propylbenzene	10.962	91	18942849m	173.38	ug/L		
88) 2-Chlorotoluene	11.039	91	16125925m	247.21	ug/L		
89) 1,3,5-Trimethylbenzene	11.143	105	17132039m	210.00	ug/L		
90) 4-Chlorotoluene	11.147	91	17309105	217.51	ug/L		99
92) tert-Butylbenzene	11.473	119	16410129	224.51	ug/L		80
93) 1,2,4-Trimethylbenzene	11.519	105	16861291	196.26	ug/L		93
94) sec-Butylbenzene	11.691	105	18487908m	182.15	ug/L		
95) 1,3-Dichlorobenzene	11.795	146	11855042	236.09	ug/L		97
96) p-Isopropyltoluene	11.845	119	17346329	189.85	ug/L		82
97) 1,4-Dichlorobenzene	11.881	146	11823813	236.41	ug/L		97
98) 1,2,3-Trimethylbenzene	11.940	105	17134801	188.88	ug/L	#	100
99) n-Butylbenzene	12.248	91	17404635m	204.13	ug/L		
100) 1,2-Dichlorobenzene	12.248	146	10459403	222.77	ug/L		97
101) 1,2-Dibromo-3-chloropr...	13.013	75	1093208	163.14	ug/L		92
102) 1,3,5-Trichlorobenzene	13.253	180	9000119	222.29	ug/L		99
103) 1,2,4-Trichlorobenzene	13.864	180	8401381	217.03	ug/L		98
104) Hexachlorobutadiene	14.054	225	4302181	216.15	ug/L		95
105) Naphthalene	14.095	128	16852994	177.65	ug/L		92
106) 1,2,3-Trichlorobenzene	14.344	180	7547877	210.16	ug/L		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\1\data\G030124\
Data File : G24V06113.D
Acq On : 1 Mar 2024 12:30 pm
Operator :
Sample : 8260 STD 200PPB Inst : GCMSVOA7
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 01 13:17:40 2024
Quant Method : X:\1\methods\GS071223-TAEE-2ND-IS.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Thu Feb 22 14:13:34 2024
Response via : Initial Calibration

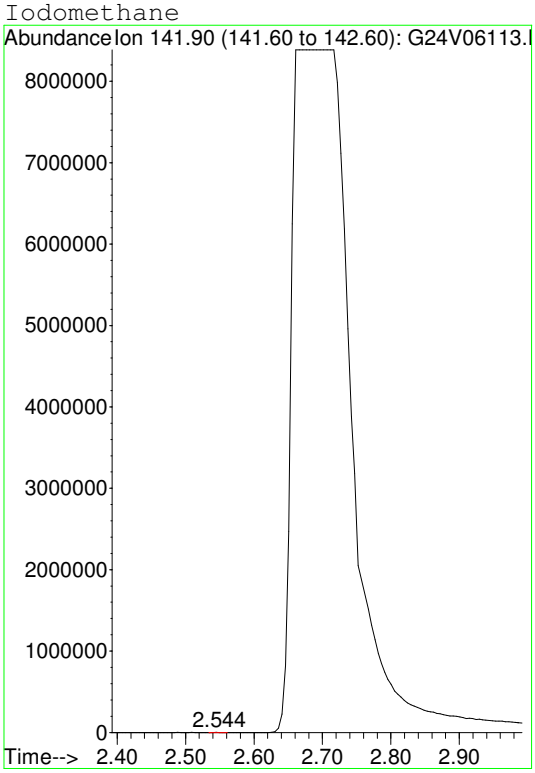




Data Path : X:\1\data\G030124\
Data File : G24V06113.D
Acq On : 1 Mar 2024 12:30 pm
Operator :
Sample : 8260 STD 200PPB
Misc :

Quant Time : Fri Mar 01 13:17:40 2024
Quant Method : X:\1\methods\GS071223-TAEE-2ND-IS.M
QLast Update : Thu Feb 22 14:13:34 2024

Original Integration
Iodomethane



Original Int. Results

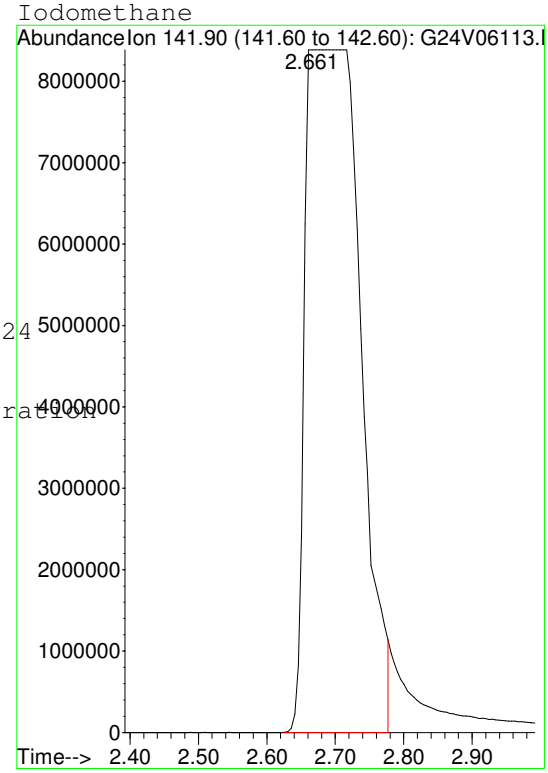
RT : 2.54
Area : 230
Amount: 0.00700684

Manual Int. Results

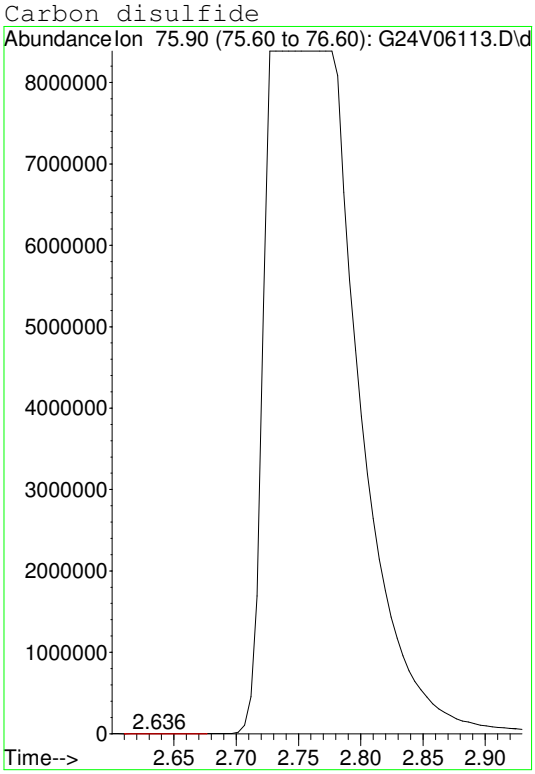
Fri Mar 01 13:15:19 2024

MIuser: MFF
Reason: Incorret Integration
RT : 2.66
Area : 4.85343e+007
Amount: 1478.58

Manual Integration
Iodomethane



Original Integration
Carbon disulfide



Original Int. Results

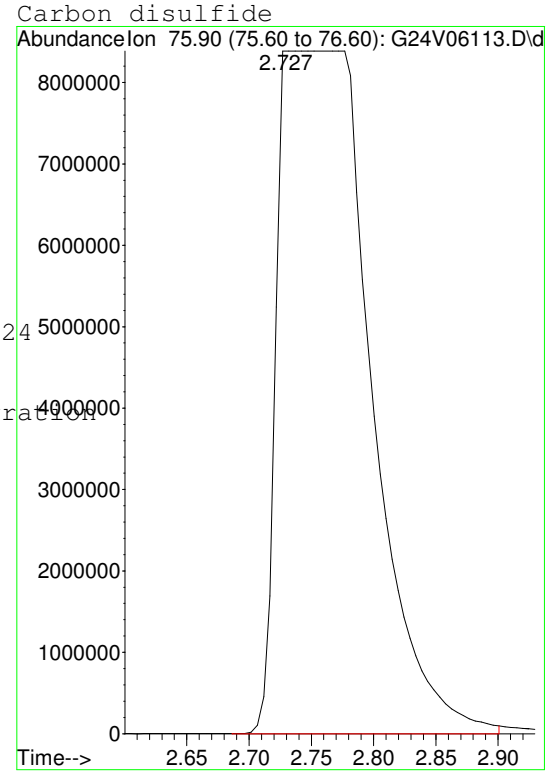
RT : 2.64
Area : 5363
Amount: 0.124378

Manual Int. Results

Fri Mar 01 13:15:30 2024

MIuser: MFF
Reason: Incorret Integration
RT : 2.73
Area : 3.96901e+007
Amount: 920.485

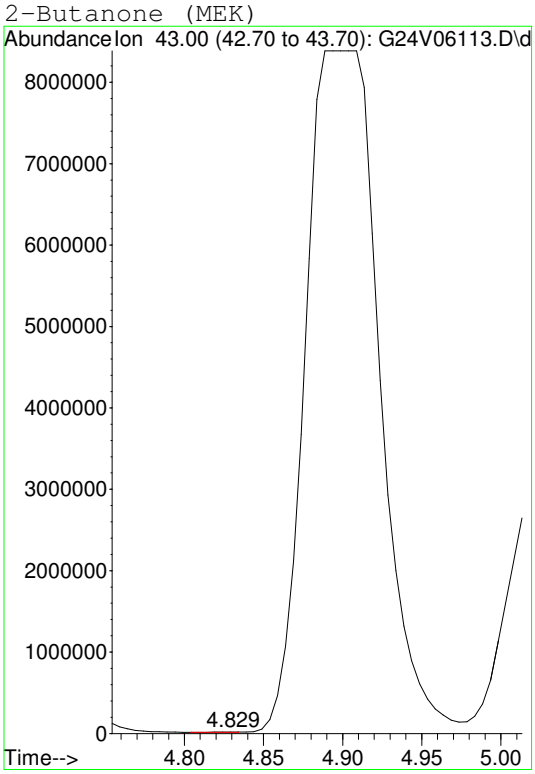
Manual Integration
Carbon disulfide



Data Path : X:\1\data\G030124\
Data File : G24V06113.D
Acq On : 1 Mar 2024 12:30 pm
Operator :
Sample : 8260 STD 200PPB
Misc :

Quant Time : Fri Mar 01 13:17:40 2024
Quant Method : X:\1\methods\GS071223-TAEE-2ND-IS.M
QLast Update : Thu Feb 22 14:13:34 2024

Original Integration
2-Butanone (MEK)



Original Int. Results

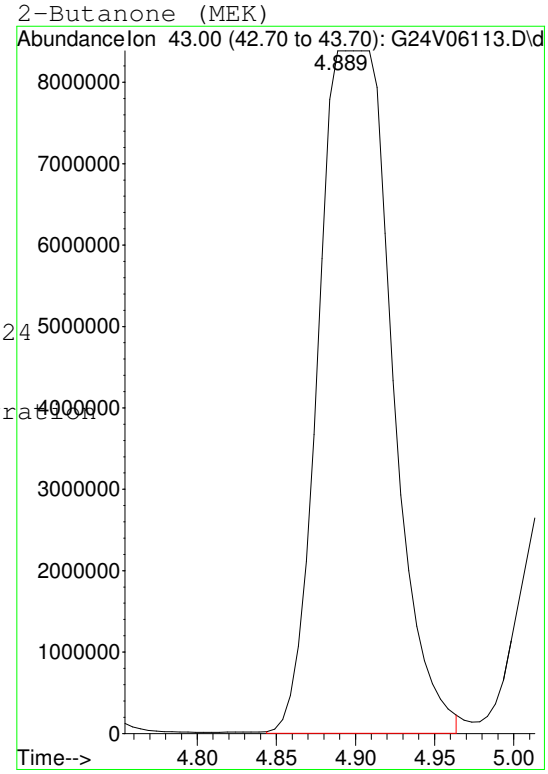
RT : 4.83
Area : 5812
Amount: 0.516696

Manual Int. Results

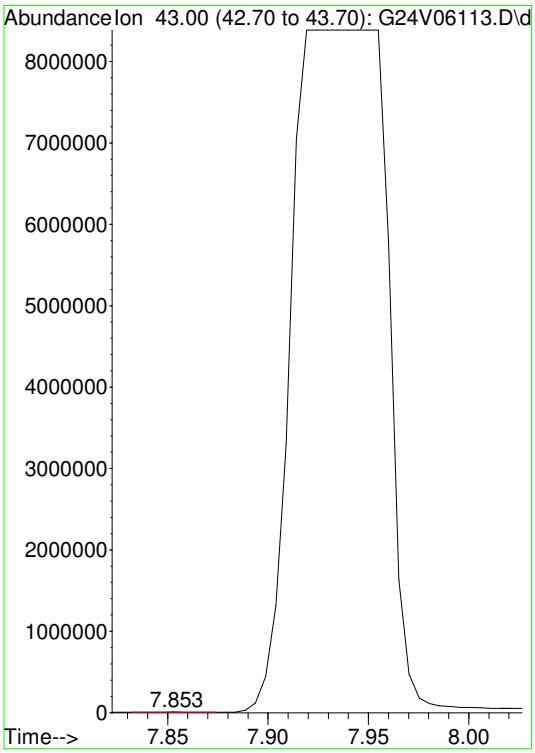
Fri Mar 01 13:15:42 2024

MIuser: MFF
Reason: Incorret Integration
RT : 4.89
Area : 2.6978e+007
Amount: 2398.39

Manual Integration
2-Butanone (MEK)



Original Integration
MIBK



Original Int. Results

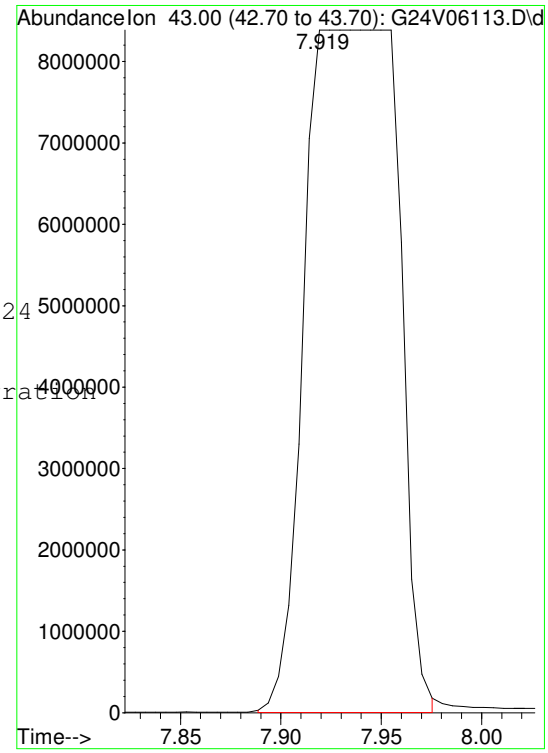
RT : 7.85
Area : 5180
Amount: 0.236355

Manual Int. Results

Fri Mar 01 13:16:16 2024

MIuser: MFF
Reason: Incorret Integration
RT : 7.92
Area : 2.67605e+007
Amount: 1221.04

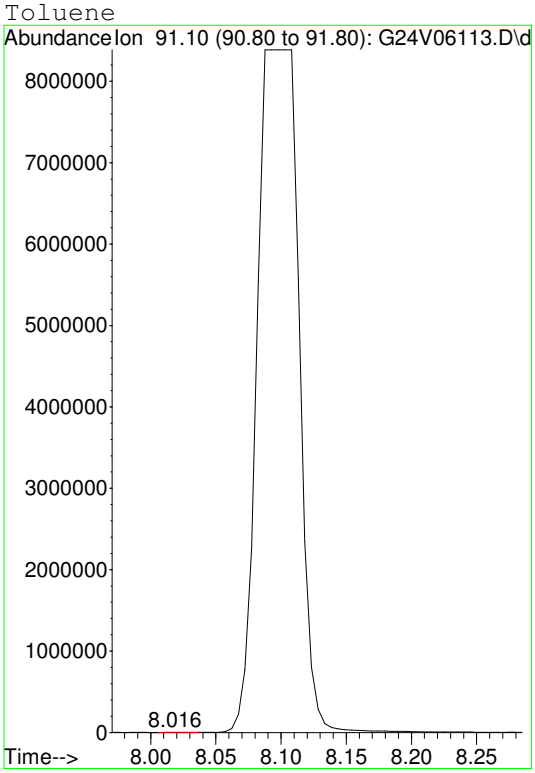
Manual Integration
MIBK



Data Path : X:\1\data\G030124\
Data File : G24V06113.D
Acq On : 1 Mar 2024 12:30 pm
Operator :
Sample : 8260 STD 200PPB
Misc :

Quant Time : Fri Mar 01 13:17:40 2024
Quant Method : X:\1\methods\GS071223-TAEE-2ND-IS.M
QLast Update : Thu Feb 22 14:13:34 2024

Original Integration
Toluene



Original Int. Results

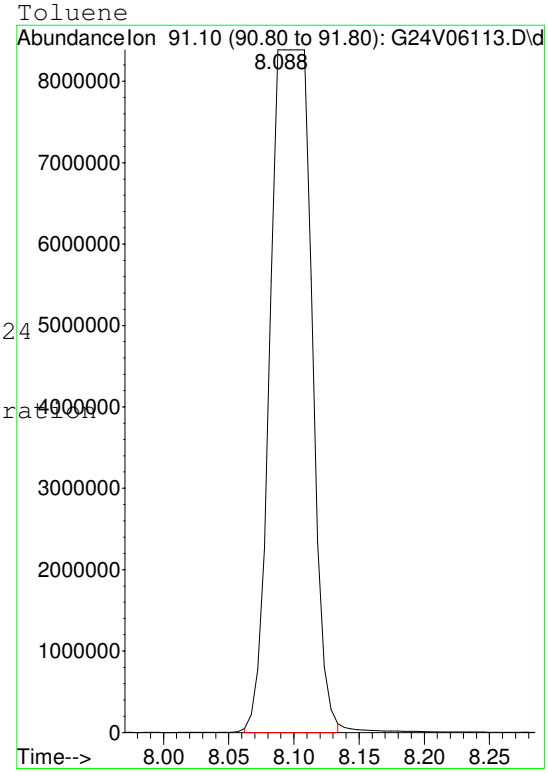
RT : 8.02
Area : 438
Amount: 0.00519414

Manual Int. Results

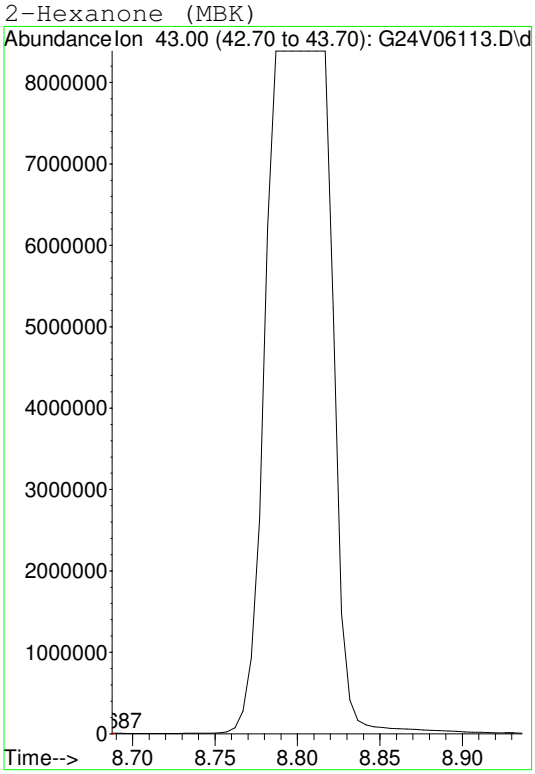
Fri Mar 01 13:16:22 2024

MIuser: MFF
Reason: Incorret Integration
RT : 8.09
Area : 1.83284e+007
Amount: 217.352

Manual Integration
Toluene



Original Integration
2-Hexanone (MBK)



Original Int. Results

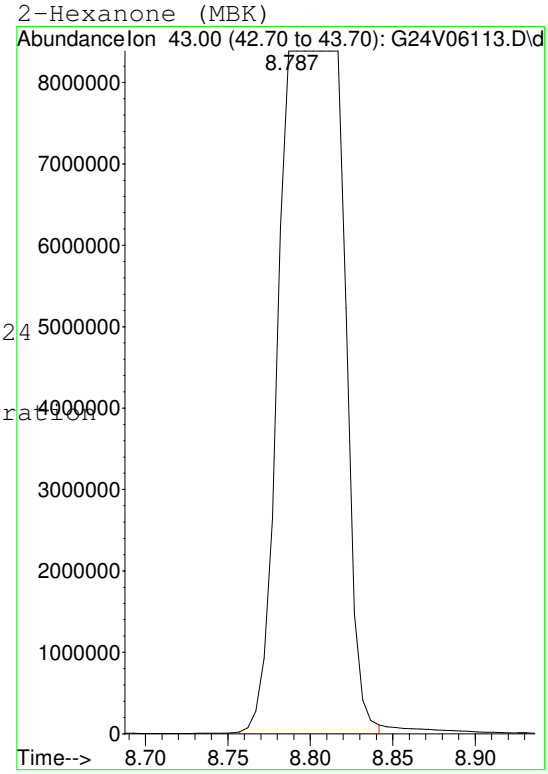
RT : 0.00
Area : 0
Amount: 0

Manual Int. Results

Fri Mar 01 13:16:29 2024

MIuser: MFF
Reason: Incorret Integration
RT : 8.79
Area : 2.27368e+007
Amount: 1362.74

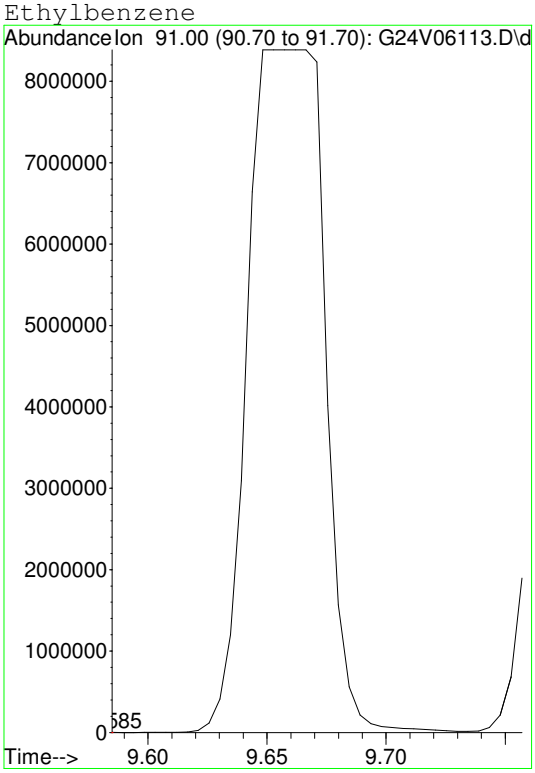
Manual Integration
2-Hexanone (MBK)



Data Path : X:\1\data\G030124\
Data File : G24V06113.D
Acq On : 1 Mar 2024 12:30 pm
Operator :
Sample : 8260 STD 200PPB
Misc :

Quant Time : Fri Mar 01 13:17:40 2024
Quant Method : X:\1\methods\GS071223-TAEE-2ND-IS.M
QLast Update : Thu Feb 22 14:13:34 2024

Original Integration
Ethylbenzene



Original Int. Results

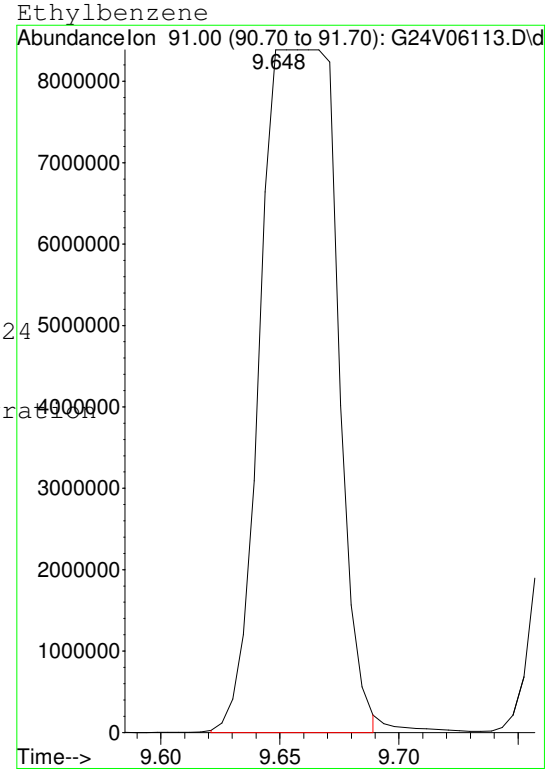
RT : 0.00
Area : 0
Amount: 0

Manual Int. Results

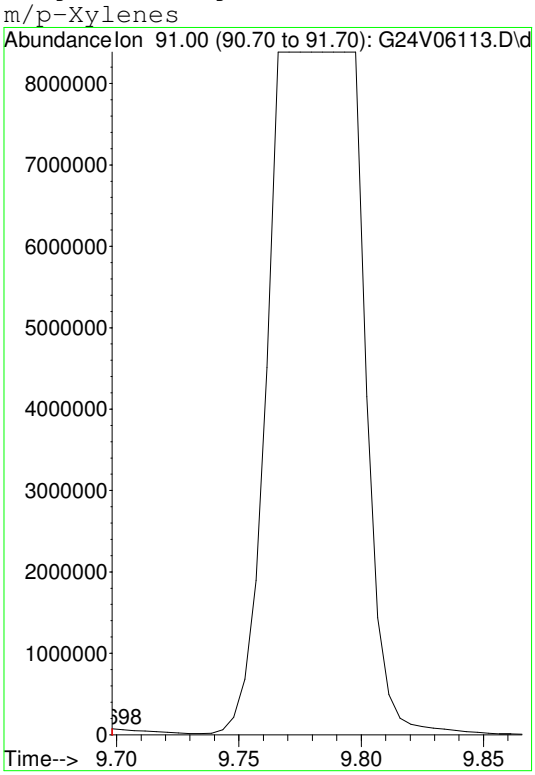
Fri Mar 01 13:16:39 2024

MIuser: MFF
Reason: Incorret Integration
RT : 9.65
Area : 1.84709e+007
Amount: 198.613

Manual Integration
Ethylbenzene



Original Integration
m/p-Xylenes



Original Int. Results

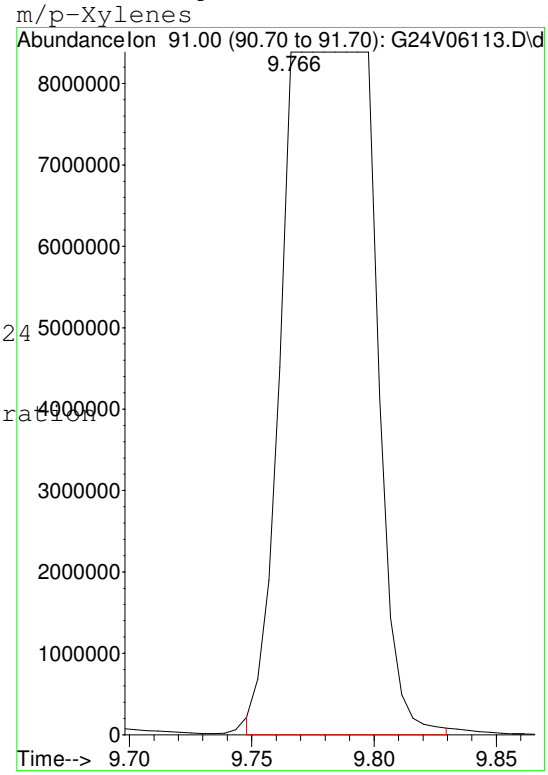
RT : 0.00
Area : 0
Amount: 0

Manual Int. Results

Fri Mar 01 13:16:43 2024

MIuser: MFF
Reason: Incorret Integration
RT : 9.77
Area : 2.19485e+007
Amount: 303.941

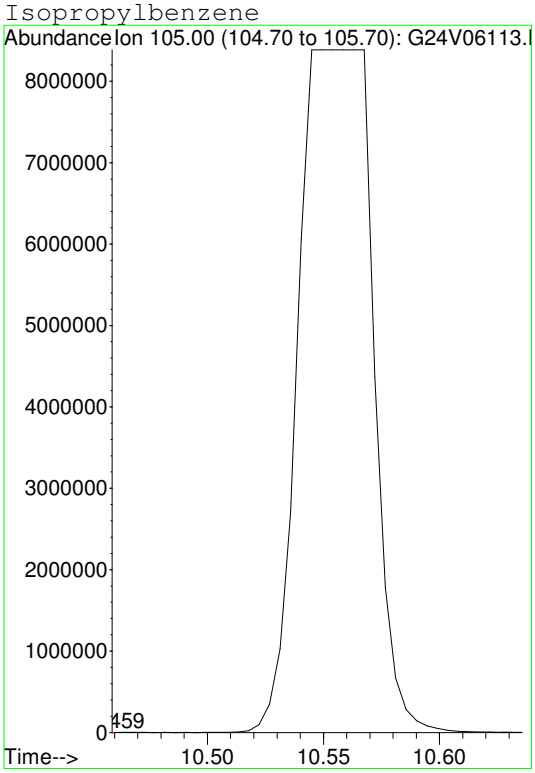
Manual Integration
m/p-Xylenes



Data Path : X:\1\data\G030124\
Data File : G24V06113.D
Acq On : 1 Mar 2024 12:30 pm
Operator :
Sample : 8260 STD 200PPB
Misc :

Quant Time : Fri Mar 01 13:17:40 2024
Quant Method : X:\1\methods\GS071223-TAEE-2ND-IS.M
QLast Update : Thu Feb 22 14:13:34 2024

Original Integration
Isopropylbenzene



Original Int. Results

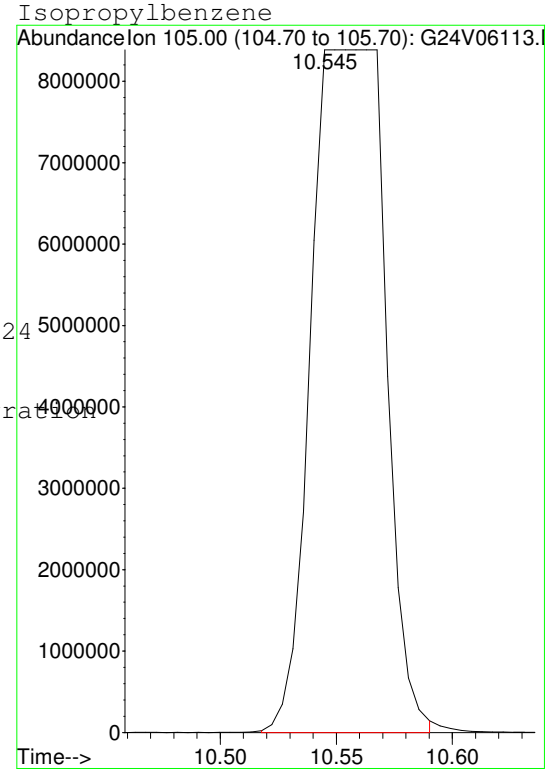
RT : 0.00
Area : 0
Amount: 0

Manual Int. Results

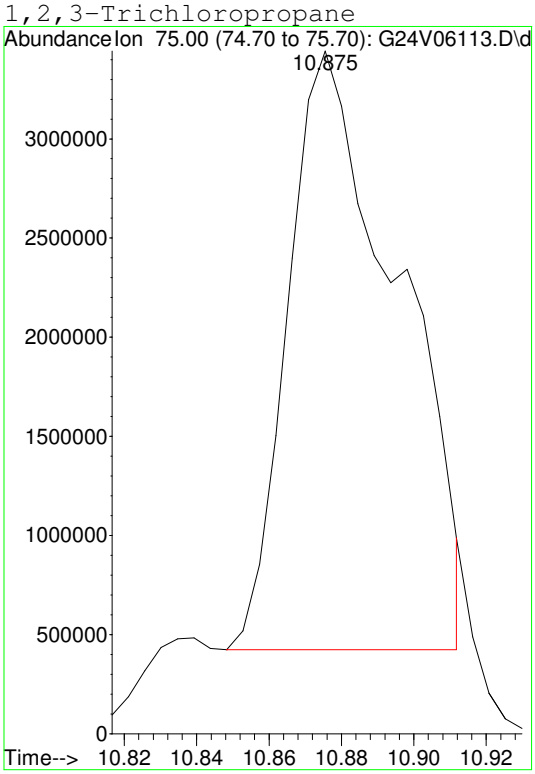
Fri Mar 01 13:16:52 2024

MIuser: MFF
Reason: Incorret Integration
RT : 10.54
Area : 1.84239e+007
Amount: 191.801

Manual Integration
Isopropylbenzene



Original Integration
1,2,3-Trichloropropane



Original Int. Results

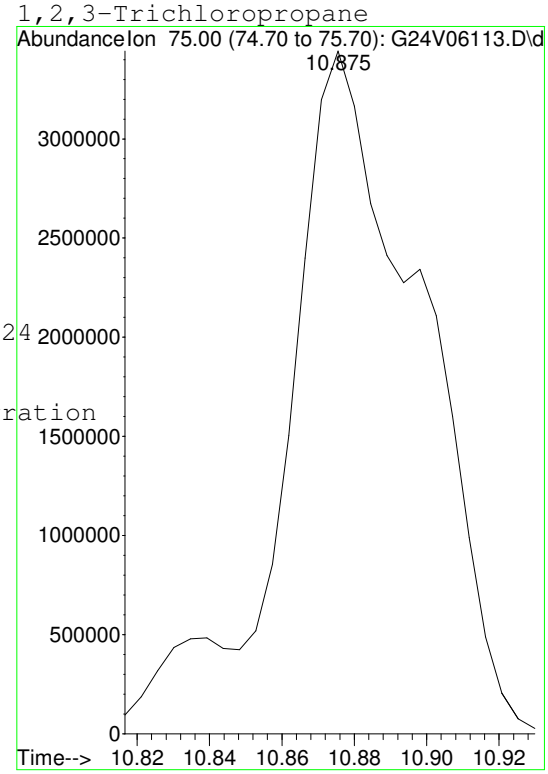
RT : 10.88
Area : 6.39945e+006
Amount: 207.152

Manual Int. Results

Fri Mar 01 13:17:03 2024

MIuser: MFF
Reason: Incorret Integration
RT : 10.88
Area : 8.22955e+006
Amount: 266.393

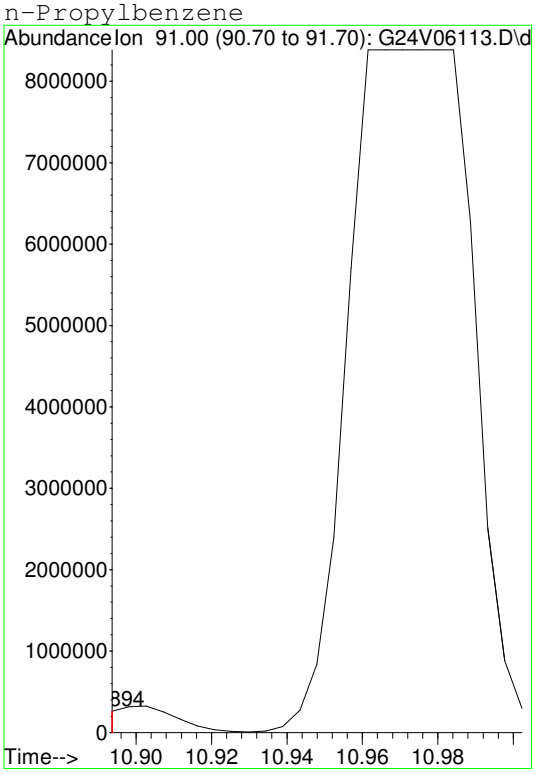
Manual Integration
1,2,3-Trichloropropane



Data Path : X:\1\data\G030124\
Data File : G24V06113.D
Acq On : 1 Mar 2024 12:30 pm
Operator :
Sample : 8260 STD 200PPB
Misc :

Quant Time : Fri Mar 01 13:17:40 2024
Quant Method : X:\1\methods\GS071223-TAEE-2ND-IS.M
QLast Update : Thu Feb 22 14:13:34 2024

Original Integration
n-Propylbenzene



Original Int. Results

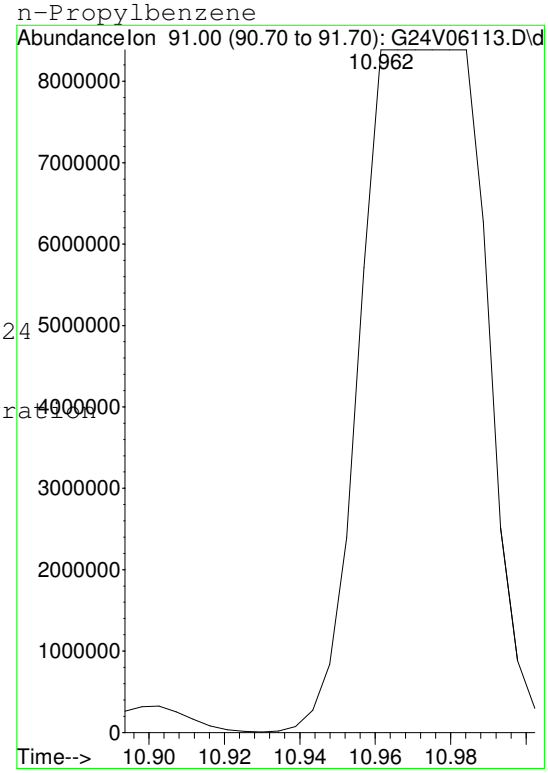
RT : 0.00
Area : 0
Amount: 0

Manual Int. Results

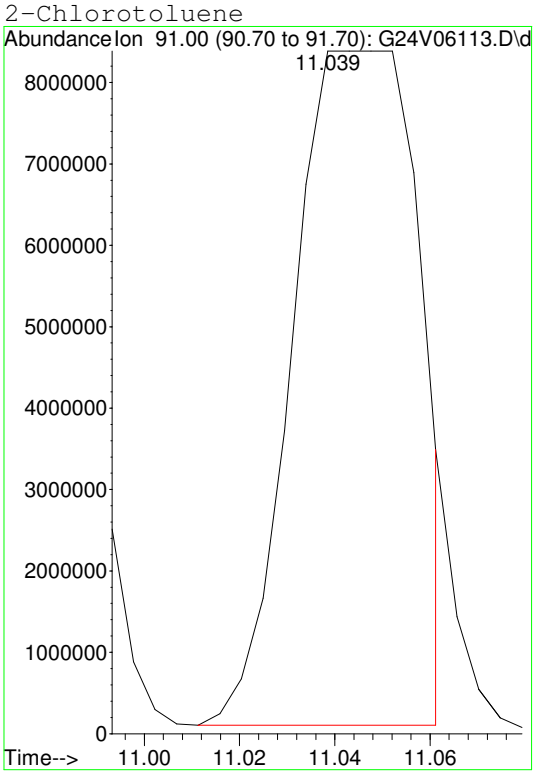
Fri Mar 01 13:17:08 2024

MIuser: MFF
Reason: Incorret Integration
RT : 10.96
Area : 1.89428e+007
Amount: 173.383

Manual Integration
n-Propylbenzene



Original Integration
2-Chlorotoluene



Original Int. Results

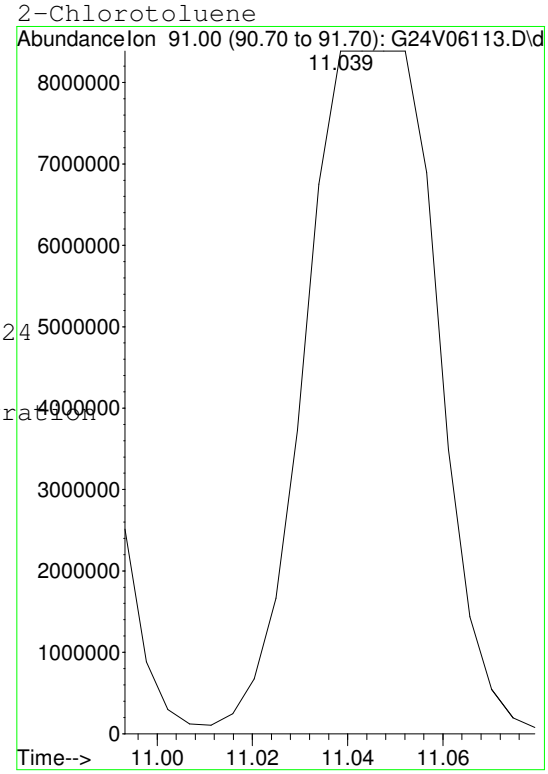
RT : 11.04
Area : 1.51742e+007
Amount: 232.618

Manual Int. Results

Fri Mar 01 13:17:14 2024

MIuser: MFF
Reason: Incorret Integration
RT : 11.04
Area : 1.61259e+007
Amount: 247.207

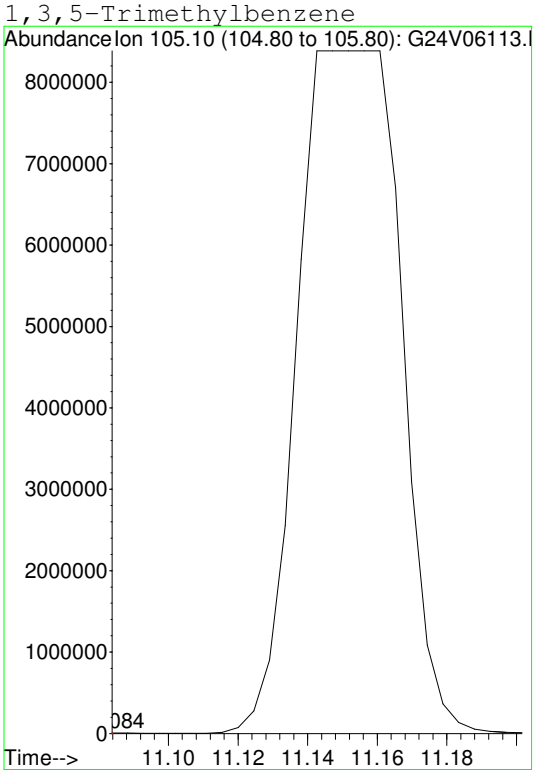
Manual Integration
2-Chlorotoluene



Data Path : X:\1\data\G030124\
Data File : G24V06113.D
Acq On : 1 Mar 2024 12:30 pm
Operator :
Sample : 8260 STD 200PPB
Misc :

Quant Time : Fri Mar 01 13:17:40 2024
Quant Method : X:\1\methods\GS071223-TAEE-2ND-IS.M
QLast Update : Thu Feb 22 14:13:34 2024

Original Integration
1,3,5-Trimethylbenzene



Original Int. Results

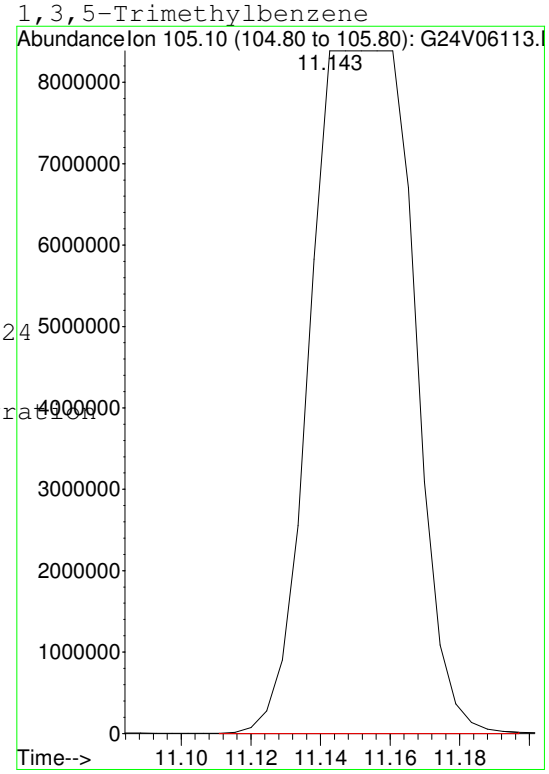
RT : 0.00
Area : 0
Amount: 0

Manual Int. Results

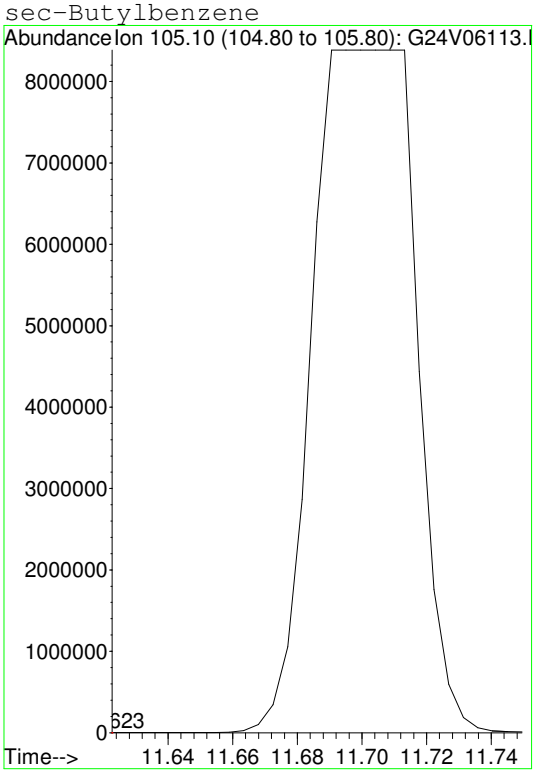
Fri Mar 01 13:17:19 2024

MIuser: MFF
Reason: Incorret Integration
RT : 11.14
Area : 1.7132e+007
Amount: 210.003

Manual Integration
1,3,5-Trimethylbenzene



Original Integration
sec-Butylbenzene



Original Int. Results

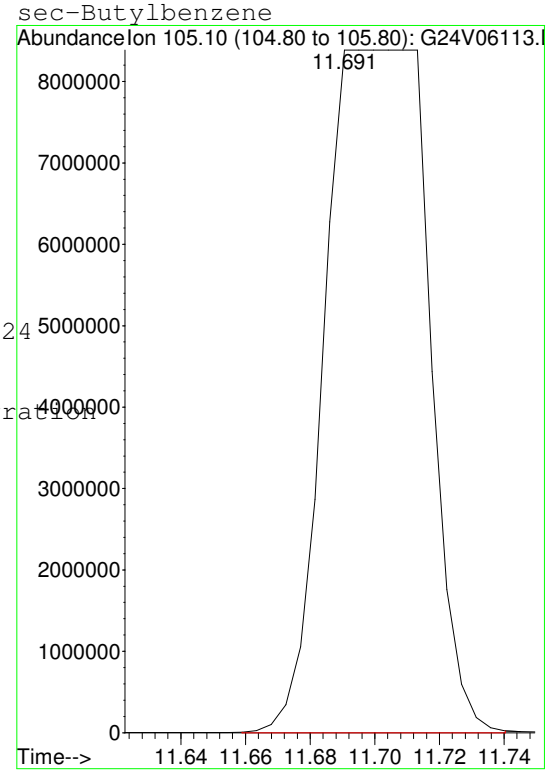
RT : 0.00
Area : 0
Amount: 0

Manual Int. Results

Fri Mar 01 13:17:30 2024

MIuser: MFF
Reason: Incorret Integration
RT : 11.69
Area : 1.84879e+007
Amount: 182.153

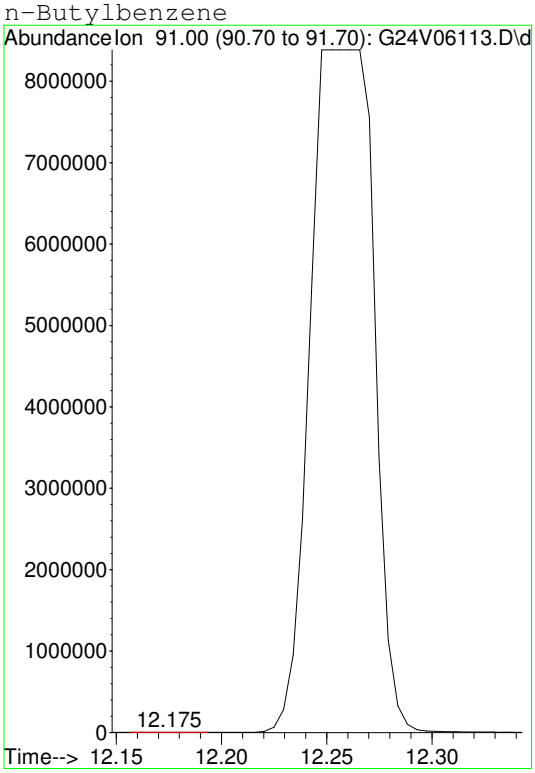
Manual Integration
sec-Butylbenzene



Data Path : X:\1\data\G030124\
Data File : G24V06113.D
Acq On : 1 Mar 2024 12:30 pm
Operator :
Sample : 8260 STD 200PPB
Misc :

Quant Time : Fri Mar 01 13:17:40 2024
Quant Method : X:\1\methods\GS071223-TAEE-2ND-IS.M
QLast Update : Thu Feb 22 14:13:34 2024

Original Integration
n-Butylbenzene



Original Int. Results

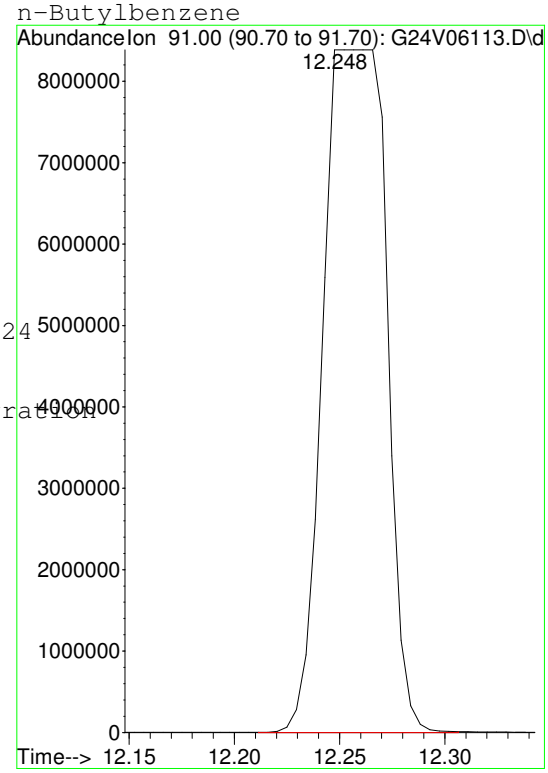
RT : 12.18
Area : 1776
Amount: 0.0208301

Manual Int. Results

Fri Mar 01 13:17:40 2024

MIuser: MFF
Reason: Incorret Integration
RT : 12.25
Area : 1.74046e+007
Amount: 204.133

Manual Integration
n-Butylbenzene



Data Path : X:\1\data\G030124\
Data File : G24V06116.D
Acq On : 1 Mar 2024 1:52 pm
Operator :
Sample : ICV-2 Inst : GCMSVOA7
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 01 14:18:35 2024
Quant Method : X:\1\methods\GS030124.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Fri Mar 01 13:48:51 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.579	168	1775559	30.00	ug/L		0.00
49) 1,4-Difluorobenzene - ...	6.420	114	2898384	30.00	ug/L		0.00
72) Chlorobenzene-d5 ISTD	9.498	82	1038973	30.00	ug/L	#	0.00
91) 1,4-Dichlorobenzene-d4...	11.854	152	1387404	30.00	ug/L		0.00
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4	5.866	65	623762	22.44	ug/L		0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 89.76%				
50) Toluene SS	8.021	98	2869501	25.05	ug/L		0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 100.20%				
73) 4-Bromofluorobenzene SS	10.690	95	1011457	24.59	ug/L		0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 98.36%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.237	85	269310	14.03	ug/L		99
4) Difluorochloromethane	1.257	51	367237	12.50	ug/L		92
5) Chloromethane	1.399	50	527651	11.78	ug/L		100
6) Vinyl chloride	1.475	62	413409	11.14	ug/L		89
7) Bromomethane	1.728	94	71347	7.15	ug/L		94
8) Chloroethane	1.820	64	180508	9.35	ug/L		94
10) Fluorodichloromethane	1.997	67	633647	10.45	ug/L		98
11) Trichlorofluoromethane	2.053	101	505738	11.43	ug/L		100
12) Diethyl ether	2.337	59	290564	9.66	ug/L		89
14) Acetone	2.605	43	1591746	148.30	ug/L		87
15) 1,1-Dichloroethene	2.545	61	535615	12.18	ug/L		98
16) 1,1,2-TRICL-1,2,2-TRIF...	2.565	101	351263	12.42	ug/L		90
17) Iodomethane	2.692	142	446504	14.13	ug/L		99
19) Methyl acetate	2.977	43	302495	12.07	ug/L		90
20) t-Butyl alcohol	3.272	59	250536	77.23	ug/L		69
21) Acrylonitrile	3.372	53	82832	8.80	ug/L		97
22) Methylene chloride	3.068	49	268036	9.20	ug/L		85
23) Carbon disulfide	2.767	76	568891	18.30	ug/L	#	94
24) Methyl tert-butyl ethe...	3.458	73	494789	8.83	ug/L		94
25) TRANS 1,2-DICHLOROETHENE	3.420	61	303971	10.37	ug/L		99
26) 1,1-Dichloroethane	4.005	63	369040	10.14	ug/L		98
28) Vinyl acetate	4.129	43	5566551	98.12	ug/L		88
30) Di isopropyl ether	4.196	45	868600	10.20	ug/L		84
31) 2-Butanone (MEK)	4.884	43	1326656	103.55	ug/L		87
33) t-Butyl ethyl ether	4.714	59	640583	9.61	ug/L		97
34) cis-1,2-Dichloroethene	4.839	61	343644	9.89	ug/L		86
35) 2,2-Dichloropropane	4.834	77	288961	9.60	ug/L	#	100
36) Ethyl acetate	5.013	43	159434	7.04	ug/L		100
37) Bromochloromethane	5.138	49	196189	9.67	ug/L		85
38) Tetrahydrofuran	5.240	42	86347	9.07	ug/L		82
39) Chloroform	5.273	83	355102m	9.36	ug/L		
42) 1,1,1-Trichloroethane	5.488	97	307821	9.91	ug/L		96
43) Cyclohexane	5.565	56	459911	10.46	ug/L	#	25
44) Carbon tetrachloride	5.699	117	206571	9.97	ug/L	#	1
45) 1,1-Dichloropropene	5.699	75	225603	9.52	ug/L		96
46) Benzene	5.937	78	829043	9.50	ug/L		95
47) tert-Amyl Alcohol (TAA)	6.029	59	225357	94.23	ug/L	#	55
48) T-AMYL METHYL ETHER	6.136	73	536186	9.53	ug/L		82
51) 1,2-Dichloroethane	5.957	62	242456	9.70	ug/L		87
53) Trichloroethene	6.701	95	228264	10.28	ug/L		98
54) Methylcyclohexane	6.925	83	414722	11.41	ug/L	#	85
55) 1,2-Dichloropropane	6.935	63	228074	9.84	ug/L	#	54
56) tert-Amyl Ethyl Ether ...	7.042	59	468380	11.11	ug/L	#	100

Data Path : X:\1\data\G030124\
Data File : G24V06116.D
Acq On : 1 Mar 2024 1:52 pm
Operator :
Sample : ICV-2 Inst : GCMSVOA7
Misc :
ALS Vial : 16 Sample Multiplier: 1

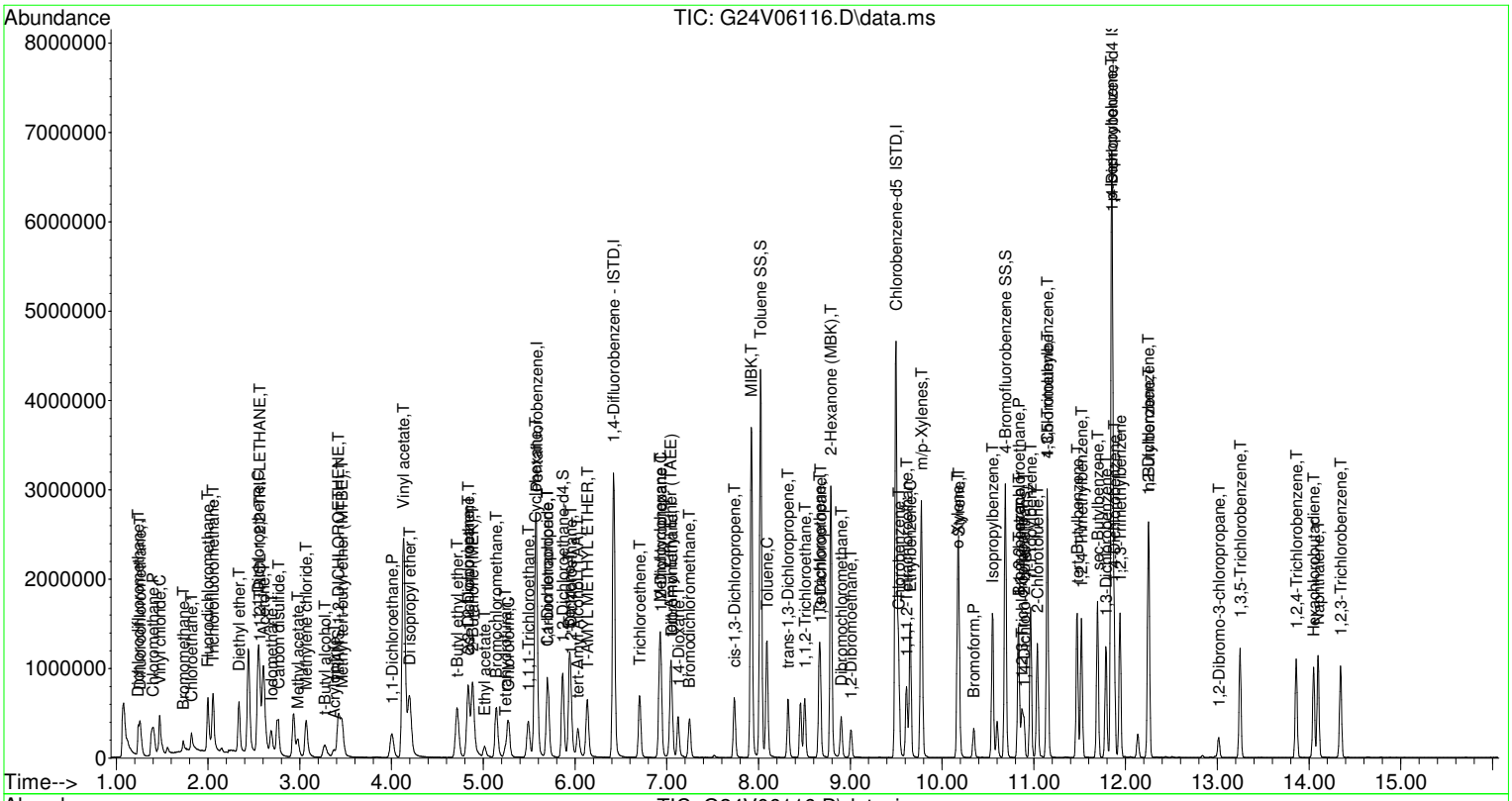
Quant Time: Mar 01 14:18:35 2024
Quant Method : X:\1\methods\GS030124.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Fri Mar 01 13:48:51 2024
Response via : Initial Calibration

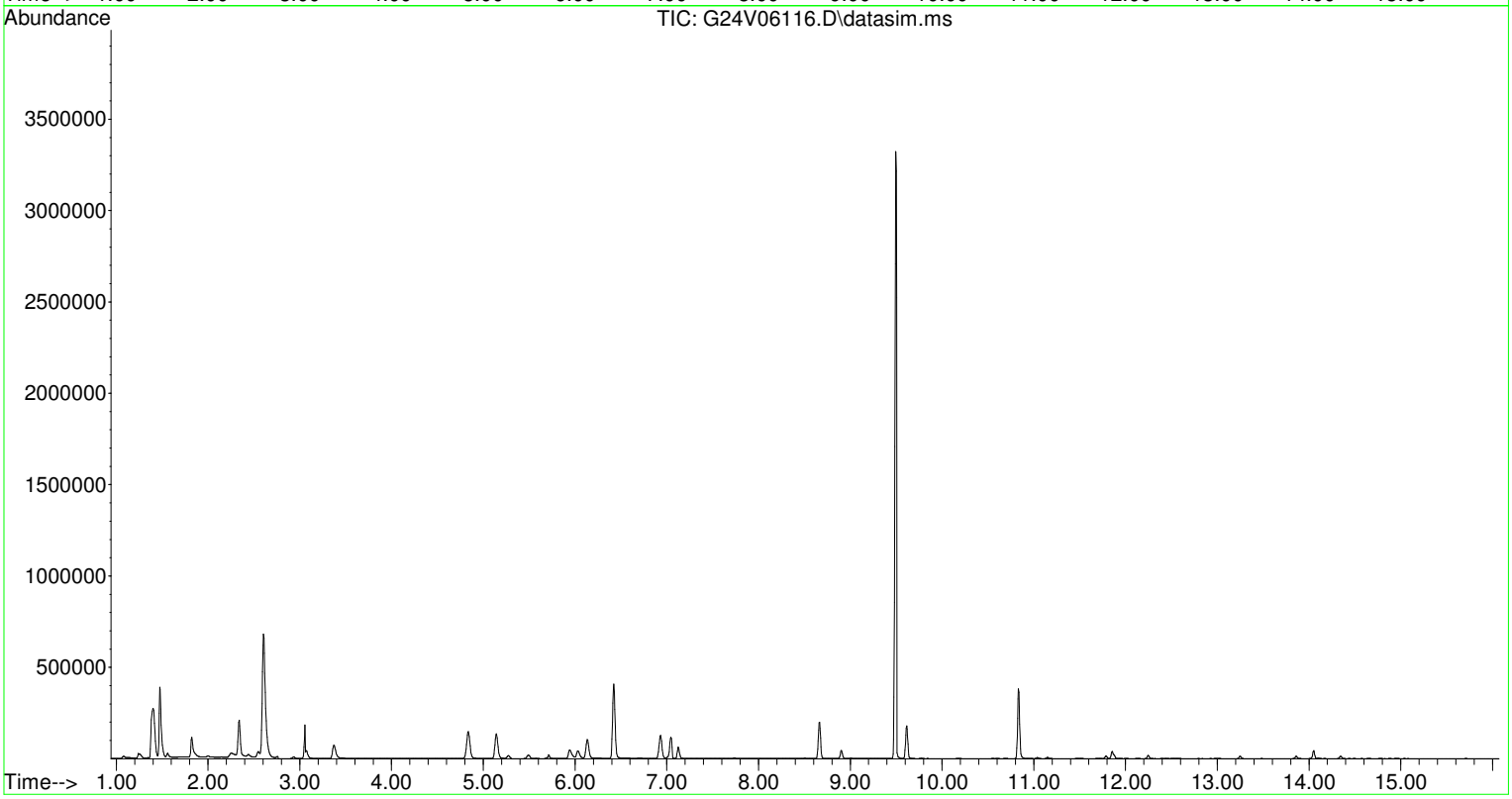
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
57) Dibromomethane	7.051	93	97966	9.57 ug/L	98
58) 1,4-Dioxane	7.126	88	21239	80.62 ug/L	79
59) Bromodichloromethane	7.246	83	269183	10.15 ug/L	99
61) MIBK	7.919	43	2656236	107.45 ug/L	85
62) cis-1,3-Dichloropropene	7.736	75	347108	9.72 ug/L	98
63) Toluene	8.093	91	976558	10.88 ug/L	100
64) trans-1,3-Dichloropropene	8.320	75	309981	10.28 ug/L	93
66) 1,1,2-Trichloroethane	8.504	97	203187	10.27 ug/L	94
67) 2-Hexanone (MBK)	8.787	43	2076949	107.53 ug/L	82
68) Tetrachloroethene	8.663	166	246076	10.81 ug/L	96
69) 1,3-Dichloropropane	8.673	76	316887	9.31 ug/L	95
70) Dibromochloromethane	8.901	129	237134	10.25 ug/L	93
71) 1,2-Dibromoethane	9.006	107	215094	10.17 ug/L	97
74) Chlorobenzene	9.526	112	649456	10.64 ug/L	99
75) 1,1,1,2-Tetrachloroethane	9.612	131	219167	10.82 ug/L	98
76) Ethylbenzene	9.653	91	1034428	10.94 ug/L	98
77) m/p-Xylenes	9.775	91	1622400	22.93 ug/L	97
78) o-Xylene	10.169	91	826956	10.96 ug/L	95
79) Styrene	10.183	104	699910	10.70 ug/L	99
80) Bromoform	10.346	173	152870	10.95 ug/L	96
81) Isopropylbenzene	10.550	105	1052122	11.48 ug/L	98
83) 1,1,2,2-Tetrachloroethane	10.835	83	286224	10.30 ug/L	99
84) 1,4-Dichloro-2-butene(...	10.894	53	77882	9.40 ug/L	89
85) Bromobenzene	10.835	77	400655	10.07 ug/L	93
86) 1,2,3-Trichloropropane	10.871	75	282534	10.47 ug/L	85
87) n-Propylbenzene	10.966	91	1276009	12.07 ug/L	100
88) 2-Chlorotoluene	11.039	91	692575	10.96 ug/L	96
89) 1,3,5-Trimethylbenzene	11.147	105	871448	10.92 ug/L	100
90) 4-Chlorotoluene	11.147	91	852442	10.80 ug/L	97
92) tert-Butylbenzene	11.473	119	773923	11.50 ug/L	100
93) 1,2,4-Trimethylbenzene	11.519	105	834154	10.56 ug/L	91
94) sec-Butylbenzene	11.695	105	1208772	12.68 ug/L	99
95) 1,3-Dichlorobenzene	11.786	146	503953	10.88 ug/L	98
96) p-Isopropyltoluene	11.845	119	1062099	12.18 ug/L	100
97) 1,4-Dichlorobenzene	11.876	146	522178	10.95 ug/L	97
98) 1,2,3-Trimethylbenzene	11.940	105	874179	10.84 ug/L #	100
99) n-Butylbenzene	12.252	91	919428	11.37 ug/L	98
100) 1,2-Dichlorobenzene	12.248	146	480950	10.91 ug/L	100
101) 1,2-Dibromo-3-chloropr...	13.017	75	47891	10.19 ug/L	89
102) 1,3,5-Trichlorobenzene	13.248	180	379898	10.93 ug/L	99
103) 1,2,4-Trichlorobenzene	13.860	180	347040	10.40 ug/L	98
104) Hexachlorobutadiene	14.050	225	184829	11.75 ug/L	97
105) Naphthalene	14.100	128	919194	10.44 ug/L	100
106) 1,2,3-Trichlorobenzene	14.344	180	328866	10.64 ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\1\data\G030124\
Data File : G24V06116.D
Acq On : 1 Mar 2024 1:52 pm
Operator :
Sample : ICV-2 Inst : GCMSVOA7
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 01 14:18:35 2024
Quant Method : X:\1\methods\GS030124.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Fri Mar 01 13:48:51 2024
Response via : Initial Calibration

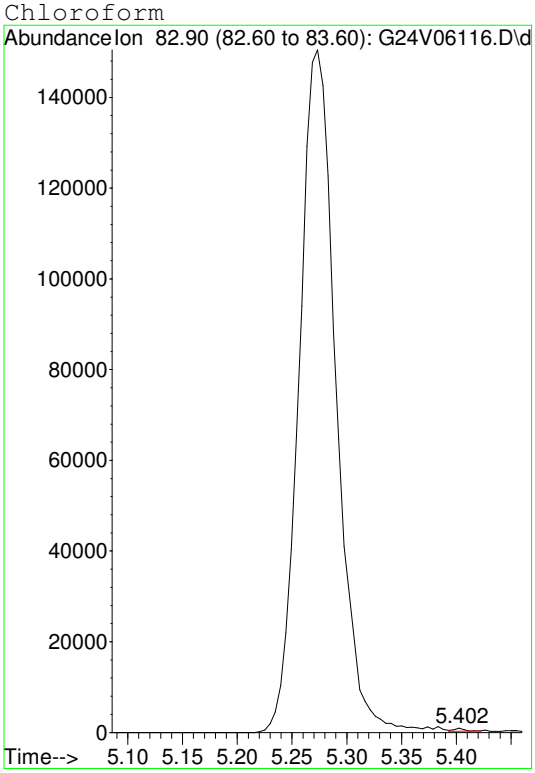




Data Path : X:\1\data\G030124\
Data File : G24V06116.D
Acq On : 1 Mar 2024 1:52 pm
Operator :
Sample : ICV-2
Misc :

Quant Time : Fri Mar 01 14:18:35 2024
Quant Method : X:\1\methods\GS030124.M
QLast Update : Fri Mar 01 13:48:51 2024

Original Integration
Chloroform



Original Int. Results

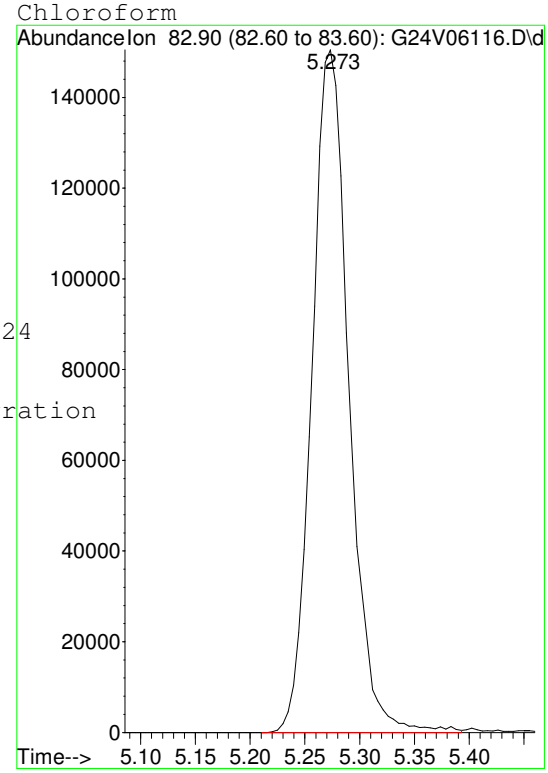
RT : 5.40
Area : 437
Amount: 0.0115202

Manual Int. Results

Fri Mar 01 14:18:35 2024

MIuser: MFF
Reason: Incorret Integration
RT : 5.27
Area : 355102
Amount: 9.36119

Manual Integration
Chloroform



7 - FORM VII

INITIAL CALIBRATION VERIFICATION

SW-846 8260D

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	GCMSVOA7	Calibration:	2400276
Lab File ID:	G24V06116.D	Calibration Date:	03/01/24 08:12
Sequence:	S101271	Injection Date:	03/01/24
Lab Sample ID:	S101271-ICV1	Injection Time:	13:52

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)	
Acetone	A	100	148	0.1813452	0.2689428		48.3	30	*
Acrylonitrile	A	10.0	8.80	0.1590905	0.1399537		-12.0	30	
tert-Amyl Alcohol (TAA)	A	100	94.2	4.040646E-02	3.807652E-02		-5.8	30	
tert-Amyl Ethyl Ether (TAEE)	A	10.0	11.1	0.4364118	0.4848012		11.1	30	
tert-Amyl Methyl Ether (TAME)	A	10.0	9.53	0.9510487	0.9059446		-4.7	30	
Benzene	A	10.0	9.50	1.474104	1.400758		-5.0	30	
Bromobenzene	A	10.0	10.1	1.149268	1.156878		0.7	30	
Bromochloromethane	A	10.0	9.67	0.3429591	0.3314826		-3.3	30	
Bromodichloromethane	A	10.0	10.2	0.2745825	0.2786204		1.5	30	
Bromoform	A	10.0	11.0	0.4030904	0.441407		9.5	30	
Bromomethane	A	10.0	7.15	0.1685439	0.1205485		-28.5	30	
2-Butanone (MEK)	A	100	104	0.2164631	0.224153		3.6	30	
tert-Butyl Alcohol (TBA)	A	100	77.2	5.481351E-02	4.233078E-02		-22.8	30	
n-Butylbenzene	A	10.0	11.4	1.748059	1.98809		13.7	30	
sec-Butylbenzene	A	10.0	12.7	2.06174	2.613742		26.8	30	
tert-Butylbenzene	A	10.0	11.5	1.455816	1.673463		15.0	30	
tert-Butyl Ethyl Ether (TBEE)	A	10.0	9.61	1.125956	1.082335		-3.9	30	
Carbon Disulfide	A	10.0	18.3	0.525362	0.9612032		83.0	30	*
Carbon Tetrachloride	A	10.0	9.97	0.3501842	0.3490242		-0.3	30	
Chlorobenzene	A	10.0	10.6	1.761839	1.875283		6.4	30	
Chlorodibromomethane	A	10.0	10.2	0.2393616	0.2454478		2.5	30	
Chloroethane	A	10.0	9.35	0.3262602	0.3049879		-6.5	30	
Chloroform	A	10.0	9.36	0.6409268	0.5999834		-6.4	30	
Chloromethane	A	10.0	11.8	0.7568696	0.8915237		17.8	30	
2-Chlorotoluene	A	10.0	11.0	1.824569	1.999787		9.6	30	
4-Chlorotoluene	A	10.0	10.8	2.278146	2.461398		8.0	30	
Cyclohexane	L	10.0	10.5	1.01	0.7770696		4.6	30	
1,2-Dibromo-3-chloropropane (DBCP)	A	10.0	10.2	0.1016228	0.1035553		1.9	30	
1,2-Dibromoethane (EDB)	A	10.0	10.2	0.21901	0.2226351		1.7	30	

7 - FORM VII

INITIAL CALIBRATION VERIFICATION

SW-846 8260D

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	GCMSVOA7	Calibration:	2400276
Lab File ID:	G24V06116.D	Calibration Date:	03/01/24 08:12
Sequence:	S101271	Injection Date:	03/01/24
Lab Sample ID:	S101271-ICV1	Injection Time:	13:52

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)	
Dibromomethane	A	10.0	9.57	0.105926	0.1014006		-4.3	30	
1,2-Dichlorobenzene	A	10.0	10.9	0.9531299	1.039964		9.1	30	
1,3-Dichlorobenzene	A	10.0	10.9	1.00173	1.089704		8.8	30	
1,4-Dichlorobenzene	A	10.0	11.0	1.030889	1.129112		9.5	30	
trans-1,4-Dichloro-2-butene	A	10.0	9.40	0.2391602	0.2248817		-6.0	30	
Dichlorodifluoromethane (Freon 12)	L	10.0	14.0	0.3100081	0.4550285		40.3	30	*
1,1-Dichloroethane	A	10.0	10.1	0.6147709	0.6235332		1.4	30	
1,2-Dichloroethane	A	10.0	9.70	0.2587644	0.2509564		-3.0	30	
1,1-Dichloroethylene	A	10.0	12.2	0.743258	0.9049798		21.8	30	
cis-1,2-Dichloroethylene	A	10.0	9.89	0.5873203	0.5806239		-1.1	30	
trans-1,2-Dichloroethylene	A	10.0	10.4	0.4950457	0.5135921		3.7	30	
Dichlorofluoromethane (Freon 21)	A	10.0	10.4	1.02498	1.070616		4.5	30	
1,2-Dichloropropane	A	10.0	9.84	0.2398096	0.2360702		-1.6	30	
1,3-Dichloropropane	A	10.0	9.31	0.3521729	0.3279969		-6.9	30	
2,2-Dichloropropane	A	10.0	9.60	0.5088293	0.488231		-4.0	30	
1,1-Dichloropropene	A	10.0	9.52	0.4003586	0.3811808		-4.8	30	
cis-1,3-Dichloropropene	A	10.0	9.72	0.3695495	0.3592774		-2.8	30	
trans-1,3-Dichloropropene	A	10.0	10.3	0.3120331	0.3208488		2.8	30	
Diethyl Ether	A	10.0	9.66	0.5083324	0.4909395		-3.4	30	
Difluorochloromethane (Freon 22)	A	10.0	12.5	0.4964215	0.6204868		25.0	30	
Diisopropyl Ether (DIPE)	A	10.0	10.2	1.439046	1.467594		2.0	30	
1,4-Dioxane	A	100	80.6	2.726728E-03	2.198363E-03		-19.4	30	
Ethyl Acetate	A	10.0	7.04	0.3826419	0.2693811		-29.6	30	
Ethylbenzene	A	10.0	10.9	2.730701	2.986876		9.4	30	
Hexachlorobutadiene	A	10.0	11.8	0.3402749	0.3996579		17.5	30	
2-Hexanone (MBK)	A	100	108	0.1999247	0.2149766		7.5	30	
Iodomethane	A	10.0	14.1	0.5337846	0.7544171		41.3	30	*
Isopropylbenzene (Cumene)	A	10.0	11.5	2.646161	3.037967		14.8	30	

7 - FORM VII

INITIAL CALIBRATION VERIFICATION

SW-846 8260D

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	GCMSVOA7	Calibration:	2400276
Lab File ID:	G24V06116.D	Calibration Date:	03/01/24 08:12
Sequence:	S101271	Injection Date:	03/01/24
Lab Sample ID:	S101271-ICV1	Injection Time:	13:52

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
p-Isopropyltoluene (p-Cymene)	A	10.0	12.2	1.886259	2.296589		21.8	30
Methyl Acetate	A	10.0	12.1	0.4235339	0.5110982		20.7	30
Methyl tert-Butyl Ether (MTBE)	A	10.0	8.83	0.9469282	0.8359998		-11.7	30
Methyl Cyclohexane	A	10.0	11.4	0.3761239	0.429262		14.1	30
Methylene Chloride	A	10.0	9.20	0.4923136	0.452876		-8.0	30
4-Methyl-2-pentanone (MIBK)	A	100	107	0.255866	0.2749362		7.5	30
Naphthalene	A	10.0	10.4	1.903055	1.987584		4.4	30
n-Propylbenzene	A	10.0	12.1	3.052356	3.684434		20.7	30
Styrene	A	10.0	10.7	1.88861	2.020967		7.0	30
1,1,1,2-Tetrachloroethane	A	10.0	10.8	0.585126	0.6328374		8.2	30
1,1,2,2-Tetrachloroethane	A	10.0	10.3	0.8020082	0.8264623		3.0	30
Tetrachloroethylene	A	10.0	10.8	0.2356537	0.2547033		8.1	30
Tetrahydrofuran	A	10.0	9.07	0.1608712	0.1458926		-9.3	30
Toluene	A	10.0	10.9	0.9288843	1.010796		8.8	30
1,2,3-Trichlorobenzene	A	10.0	10.6	0.6685998	0.7111108		6.4	30
1,2,4-Trichlorobenzene	A	10.0	10.4	0.7217784	0.7504087		4.0	30
1,3,5-Trichlorobenzene	A	10.0	10.9	0.7512668	0.8214579		9.3	30
1,1,1-Trichloroethane	A	10.0	9.91	0.5247346	0.5200971		-0.9	30
1,1,2-Trichloroethane	A	10.0	10.3	0.204856	0.2103106		2.7	30
Trichloroethylene	A	10.0	10.3	0.2299069	0.2362668		2.8	30
Trichlorofluoromethane (Freon 11)	A	10.0	11.4	0.7474903	0.8544993		14.3	30
1,2,3-Trichloropropane	A	10.0	10.5	0.7791013	0.8158075		4.7	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	10.0	12.4	0.4778742	0.593497		24.2	30
1,2,3-Trimethylbenzene	A	10.0	10.8	1.743084	1.890248		8.4	30
1,2,4-Trimethylbenzene	A	10.0	10.6	1.707392	1.803701		5.6	30
1,3,5-Trimethylbenzene	A	10.0	10.9	2.304978	2.516277		9.2	30
Vinyl Acetate	A	100	98.1	0.9585143	0.9405293		-1.9	30
Vinyl Chloride	A	10.0	11.1	0.6268061	0.6984995		11.4	30

7 - FORM VII

INITIAL CALIBRATION VERIFICATION

SW-846 8260D

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	GCMSVOA7	Calibration:	2400276
Lab File ID:	G24V06116.D	Calibration Date:	03/01/24 08:12
Sequence:	S101271	Injection Date:	03/01/24
Lab Sample ID:	S101271-ICV1	Injection Time:	13:52

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
m+p Xylene	A	20.0	22.9	2.04273	2.342313		14.7	30
o-Xylene	A	10.0	11.0	2.179028	2.387808		9.6	30
1,2-Dichloroethane-d4	A	25.0	22.4	0.469743	0.4215655		-10.3	
Toluene-d8	A	25.0	25.0	1.185795	1.188042		0.2	
4-Bromofluorobenzene	A	25.0	24.6	1.187715	1.168219		-1.6	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8260D

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	GCMSVOA7	Calibration:	2400276
Lab File ID:	G24V13402.D	Calibration Date:	03/01/24 08:12
Sequence:	S104464	Injection Date:	05/13/24
Lab Sample ID:	S104464-CCV1	Injection Time:	04:17

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Acetone	A	100	105	0.1813452	0.1911188		5.4	20	
Benzene	A	10.0	10.1	1.474104	1.48262		0.6	20	
Bromochloromethane	A	10.0	10.8	0.3429591	0.3685121		7.5	20	
Bromodichloromethane	A	10.0	9.71	0.2745825	0.2665322		-2.9	20	
Bromoform	A	10.0	8.06	0.4030904	0.324775		-19.4	20	
Bromomethane	A	10.0	9.65	0.1685439	0.1626364		-3.5	20	
2-Butanone (MEK)	A	100	111	0.2164631	0.241244		11.4	20	
n-Butylbenzene	A	10.0	10.8	1.748059	1.896541		8.5	20	
sec-Butylbenzene	A	10.0	10.8	2.06174	2.237156		8.5	20	
tert-Butylbenzene	A	10.0	10.6	1.455816	1.543739		6.0	20	
Carbon Disulfide	A	100	89.7	0.525362	0.4714798		-10.3	20	
Carbon Tetrachloride	A	10.0	9.38	0.3501842	0.3284536		-6.2	20	
Chlorobenzene	A	10.0	8.48	1.761839	1.494293		-15.2	20	
Chlorodibromomethane	A	10.0	9.82	0.2393616	0.2349505		-1.8	20	
Chloroethane	A	10.0	10.3	0.3262602	0.336881		3.3	20	
Chloroform	A	10.0	10.1	0.6409268	0.6466884		0.9	20	
Chloromethane	A	10.0	17.2	0.7568696	1.302335		72.1	20	*
Cyclohexane	L	10.0	9.76	1.01	0.7206185		-2.4	20	
1,2-Dibromo-3-chloropropane (DBCP)	A	10.0	9.76	0.1016228	9.915518E-02		-2.4	20	
1,2-Dibromoethane (EDB)	A	10.0	10.8	0.21901	0.2363048		7.9	20	
1,2-Dichlorobenzene	A	10.0	11.1	0.9531299	1.058104		11.0	20	
1,3-Dichlorobenzene	A	10.0	11.0	1.00173	1.105637		10.4	20	
1,4-Dichlorobenzene	A	10.0	11.1	1.030889	1.14326		10.9	20	
Dichlorodifluoromethane (Freon 12)	L	10.0	7.18	0.3100081	0.2160326		-28.2	20	*
1,1-Dichloroethane	A	10.0	10.6	0.6147709	0.6496655		5.7	20	
1,2-Dichloroethane	A	10.0	10.5	0.2587644	0.2708514		4.7	20	
1,1-Dichloroethylene	A	10.0	10.9	0.743258	0.8101396		9.0	20	
cis-1,2-Dichloroethylene	A	10.0	10.0	0.5873203	0.5903716		0.5	20	
trans-1,2-Dichloroethylene	A	10.0	9.77	0.4950457	0.4838192		-2.3	20	

CONTINUING CALIBRATION VERIFICATION

SW-846 8260D

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	GCMSVOA7	Calibration:	2400276
Lab File ID:	G24V13402.D	Calibration Date:	03/01/24 08:12
Sequence:	S104464	Injection Date:	05/13/24
Lab Sample ID:	S104464-CCV1	Injection Time:	04:17

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,2-Dichloropropane	A	10.0	10.1	0.2398096	0.2414435		0.7	20	
cis-1,3-Dichloropropene	A	10.0	10.0	0.3695495	0.3705688		0.3	20	
trans-1,3-Dichloropropene	A	10.0	9.96	0.3120331	0.3106582		-0.4	20	
Ethylbenzene	A	10.0	9.71	2.730701	2.651504		-2.9	20	
2-Hexanone (MBK)	A	100	117	0.1999247	0.2348692		17.5	20	
Isopropylbenzene (Cumene)	A	10.0	9.87	2.646161	2.611078		-1.3	20	
p-Isopropyltoluene (p-Cymene)	A	10.0	11.1	1.886259	2.095064		11.1	20	
Methyl Acetate	A	10.0	11.1	0.4235339	0.4703106		11.0	20	
Methyl tert-Butyl Ether (MTBE)	A	10.0	10.3	0.9469282	0.9795867		3.4	20	
Methyl Cyclohexane	A	10.0	10.1	0.3761239	0.3785992		0.7	20	
Methylene Chloride	A	10.0	10.3	0.4923136	0.5078394		3.2	20	
4-Methyl-2-pentanone (MIBK)	A	100	121	0.255866	0.3105042		21.4	20	*
Naphthalene	A	10.0	11.2	1.903055	2.121065		11.5	20	
n-Propylbenzene	A	10.0	10.3	3.052356	3.15623		3.4	20	
Styrene	A	10.0	9.72	1.88861	1.835313		-2.8	20	
1,1,2,2-Tetrachloroethane	A	10.0	9.60	0.8020082	0.7697601		-4.0	20	
Tetrachloroethylene	A	10.0	10.8	0.2356537	0.2551265		8.3	20	
Toluene	A	10.0	10.4	0.9288843	0.9652915		3.9	20	
1,2,3-Trichlorobenzene	A	10.0	10.9	0.6685998	0.7315261		9.4	20	
1,2,4-Trichlorobenzene	A	10.0	10.8	0.7217784	0.7815223		8.3	20	
1,1,1-Trichloroethane	A	10.0	9.78	0.5247346	0.5130788		-2.2	20	
1,1,2-Trichloroethane	A	10.0	10.7	0.204856	0.2185265		6.7	20	
Trichloroethylene	A	10.0	10.2	0.2299069	0.2349013		2.2	20	
Trichlorofluoromethane (Freon 11)	A	10.0	11.0	0.7474903	0.8254305		10.4	20	
1,2,3-Trichloropropane	A	10.0	10.5	0.7791013	0.8214146		5.4	20	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	10.0	11.4	0.4778742	0.542584		13.5	20	
1,2,4-Trimethylbenzene	A	10.0	10.3	1.707392	1.760103		3.1	20	
1,3,5-Trimethylbenzene	A	10.0	9.55	2.304978	2.202113		-4.5	20	

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8260D

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	GCMSVOA7	Calibration:	2400276
Lab File ID:	G24V13402.D	Calibration Date:	03/01/24 08:12
Sequence:	S104464	Injection Date:	05/13/24
Lab Sample ID:	S104464-CCV1	Injection Time:	04:17

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Vinyl Chloride	A	10.0	9.46	0.6268061	0.5931922		-5.4	20
m+p Xylene	A	20.0	20.0	2.04273	2.048196		0.3	20
o-Xylene	A	10.0	9.45	2.179028	2.058574		-5.5	20
1,2-Dichloroethane-d4	A	25.0	24.2	0.469743	0.4547528		-3.2	
Toluene-d8	A	25.0	23.0	1.185795	1.091361		-8.0	
4-Bromofluorobenzene	A	25.0	20.9	1.187715	0.9934991		-16.4	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : X:\1\data\G051324\
Data File : G24V13402.D
Acq On : 13 May 2024 4:17 am
Operator :
Sample : BFB/8260 STD 10PPB 24B1017 Inst : GCMSVOA7
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 13 04:37:58 2024
Quant Method : D:\msdchem\1\methods\GS030124.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Fri Mar 01 13:48:51 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.574	168	1649612	30.00	ug/L		0.00
49) 1,4-Difluorobenzene - ...	6.420	114	2866472	30.00	ug/L		0.00
72) Chlorobenzene-d5 ISTD	9.488	82	1129622	30.00	ug/L	#	0.00
91) 1,4-Dichlorobenzene-d4...	11.840	152	1411787	30.00	ug/L		-0.01
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4	5.866	65	625138	24.20	ug/L		0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 96.80%				
50) Toluene SS	8.016	98	2606964	23.01	ug/L		0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 92.04%				
73) 4-Bromofluorobenzene SS	10.681	95	935232	20.91	ug/L		0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 83.64%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.242	85	118790	7.18	ug/L		99
4) Difluorochloromethane	1.267	51	250951	9.19	ug/L		90
5) Chloromethane	1.379	50	716116m	17.21	ug/L		
6) Vinyl chloride	1.475	62	326179	9.46	ug/L		89
7) Bromomethane	1.728	94	89429	9.65	ug/L		98
8) Chloroethane	1.820	64	185241	10.33	ug/L		97
10) Fluorodichloromethane	2.002	67	604958	10.73	ug/L		97
11) Trichlorofluoromethane	2.058	101	453880	11.04	ug/L		98
12) Diethyl ether	2.342	59	290286	10.39	ug/L		89
14) Acetone	2.605	43	1050906	105.39	ug/L		87
15) 1,1-Dichloroethene	2.544	61	445472	10.90	ug/L		97
16) 1,1,2-TRICL-1,2,2-TRIF...	2.565	101	298351	11.35	ug/L		93
17) Iodomethane	2.686	142	2201891	75.02	ug/L		97
19) Methyl acetate	2.977	43	258610	11.10	ug/L		85
20) t-Butyl alcohol	3.272	59	315005	104.51	ug/L		72
21) Acrylonitrile	3.372	53	86474	9.89	ug/L		100
22) Methylene chloride	3.072	49	279246	10.32	ug/L		81
23) Carbon disulfide	2.767	76	2592529	89.74	ug/L	#	91
24) Methyl tert-butyl ethe...	3.463	73	538646	10.34	ug/L		91
25) TRANS 1,2-DICHLOROETHENE	3.425	61	266038	9.77	ug/L		98
26) 1,1-Dichloroethane	4.001	63	357232	10.57	ug/L		98
28) Vinyl acetate	4.134	43	6209668	117.82	ug/L		88
30) Di isopropyl ether	4.196	45	813981	10.29	ug/L		85
31) 2-Butanone (MEK)	4.889	43	1326530	111.45	ug/L		86
33) t-Butyl ethyl ether	4.719	59	638946	10.32	ug/L		97
34) cis-1,2-Dichloroethene	4.839	61	324628	10.05	ug/L		86
35) 2,2-Dichloropropane	4.834	77	263158	9.41	ug/L	#	100
36) Ethyl acetate	5.013	43	237087	11.27	ug/L		100
37) Bromochloromethane	5.143	49	202634	10.75	ug/L		86
38) Tetrahydrofuran	5.240	42	100211	11.33	ug/L		82
39) Chloroform	5.273	83	355595	10.09	ug/L	#	48
42) 1,1,1-Trichloroethane	5.488	97	282127	9.78	ug/L		98
43) Cyclohexane	5.570	56	396247	9.76	ug/L	#	25
44) Carbon tetrachloride	5.699	117	180607	9.38	ug/L	#	1
45) 1,1-Dichloropropene	5.699	75	208056	9.45	ug/L		95
46) Benzene	5.937	78	815249	10.06	ug/L		95
47) tert-Amyl Alcohol (TAA)	6.029	59	238913	107.53	ug/L	#	58
48) T-AMYL METHYL ETHER	6.130	73	535071	10.23	ug/L		85
51) 1,2-Dichloroethane	5.957	62	258796	10.47	ug/L		85
53) Trichloroethene	6.701	95	224446	10.22	ug/L		99
54) Methylcyclohexane	6.920	83	361748	10.07	ug/L	#	81
55) 1,2-Dichloropropane	6.930	63	230697	10.07	ug/L	#	59
56) tert-Amyl Ethyl Ether ...	7.041	59	430880	10.33	ug/L	#	100

Data Path : X:\1\data\G051324\
Data File : G24V13402.D
Acq On : 13 May 2024 4:17 am
Operator :
Sample : BFB/8260 STD 10PPB 24B1017 Inst : GCMSVOA7
Misc :
ALS Vial : 2 Sample Multiplier: 1

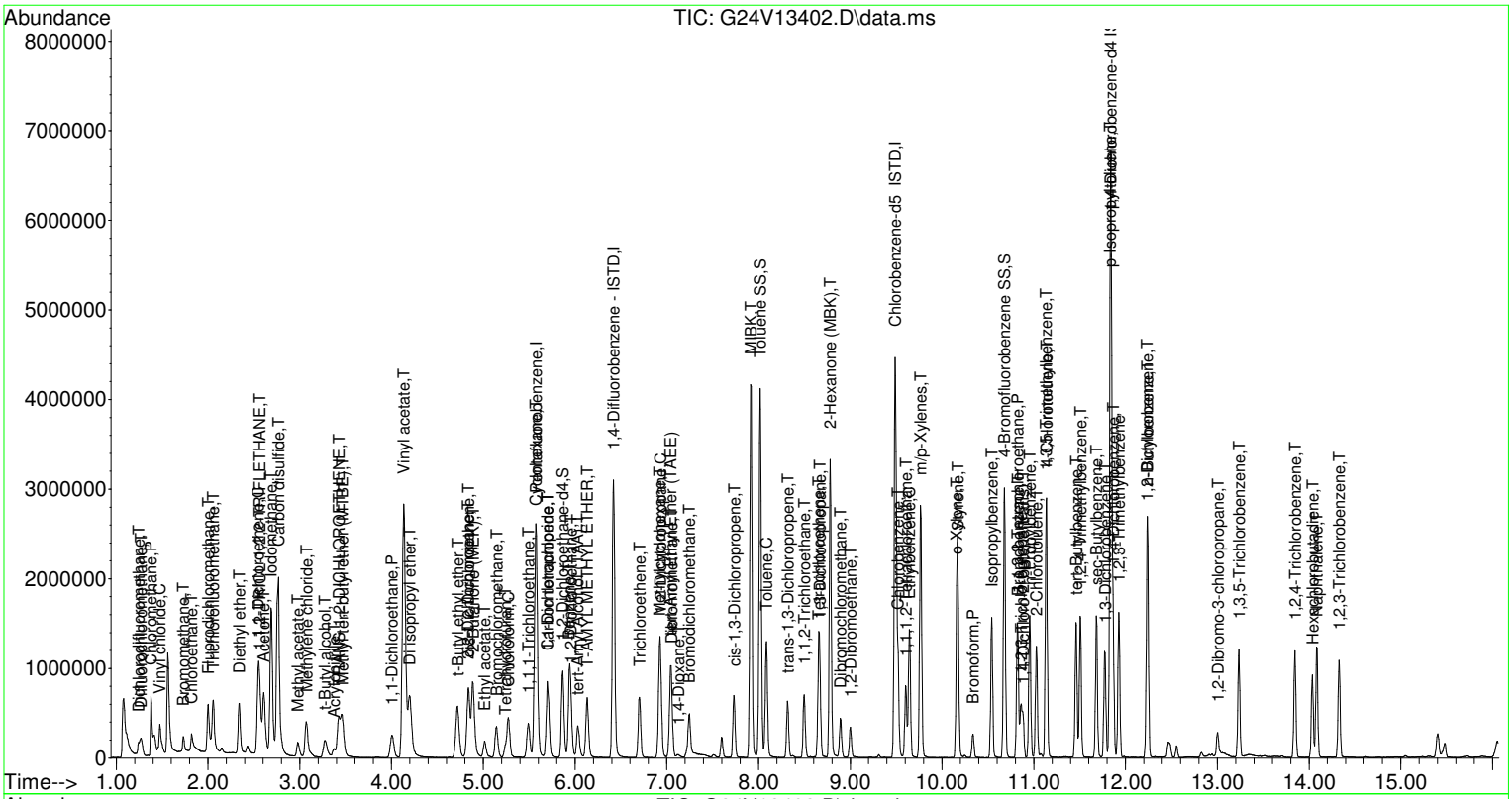
Quant Time: May 13 04:37:58 2024
Quant Method : D:\msdchem\1\methods\GS030124.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Fri Mar 01 13:48:51 2024
Response via : Initial Calibration

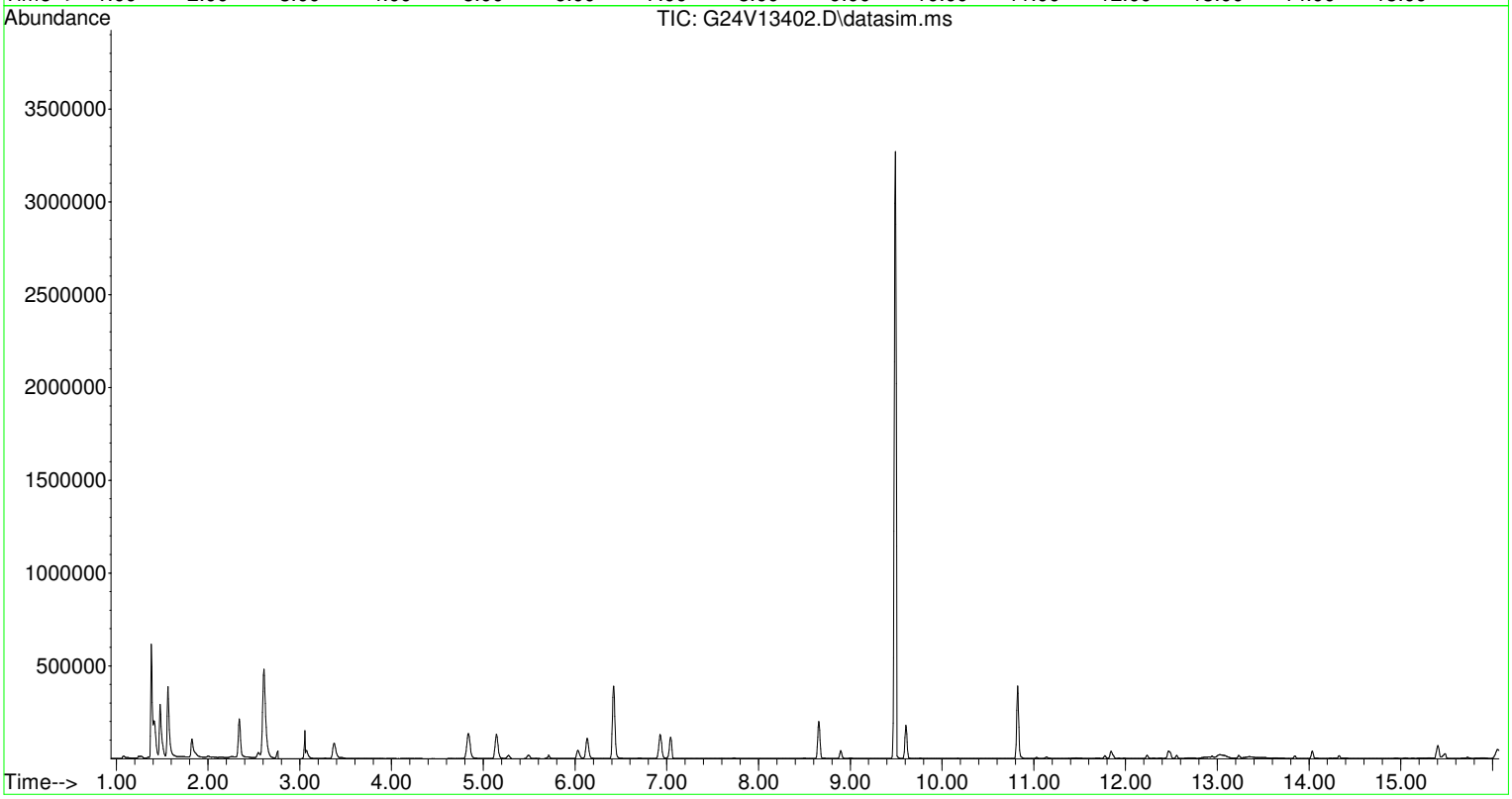
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
57) Dibromomethane	7.051	93	106078	10.48	ug/L		98
58) 1,4-Dioxane	7.126	88	30373	116.58	ug/L		91
59) Bromodichloromethane	7.246	83	254669	9.71	ug/L		100
61) MIBK	7.914	43	2966839	121.35	ug/L		84
62) cis-1,3-Dichloropropene	7.736	75	354075	10.03	ug/L		95
63) Toluene	8.088	91	922327	10.39	ug/L		96
64) trans-1,3-Dichloropropene	8.320	75	296831	9.96	ug/L		94
66) 1,1,2-Trichloroethane	8.499	97	208800	10.67	ug/L		95
67) 2-Hexanone (MBK)	8.782	43	2244153	117.48	ug/L		80
68) Tetrachloroethene	8.653	166	243771	10.83	ug/L		97
69) 1,3-Dichloropropane	8.668	76	345512	10.27	ug/L		93
70) Dibromochloromethane	8.891	129	224493	9.82	ug/L		94
71) 1,2-Dibromoethane	9.001	107	225787	10.79	ug/L		97
74) Chlorobenzene	9.517	112	562662	8.48	ug/L		97
75) 1,1,1,2-Tetrachloroethane	9.608	131	221532	10.05	ug/L		99
76) Ethylbenzene	9.644	91	998399	9.71	ug/L		98
77) m/p-Xylenes	9.766	91	1542458	20.05	ug/L		94
78) o-Xylene	10.160	91	775137	9.45	ug/L		93
79) Styrene	10.174	104	691070	9.72	ug/L		97
80) Bromoform	10.337	173	122291	8.06	ug/L		99
81) Isopropylbenzene	10.540	105	983177	9.87	ug/L		96
83) 1,1,2,2-Tetrachloroethane	10.821	83	289846	9.60	ug/L		99
84) 1,4-Dichloro-2-butene(...	10.885	53	88074	9.78	ug/L		83
85) Bromobenzene	10.826	77	377734	8.73	ug/L		98
86) 1,2,3-Trichloropropane	10.862	75	309296	10.54	ug/L		85
87) n-Propylbenzene	10.957	91	1188449	10.34	ug/L		99
88) 2-Chlorotoluene	11.029	91	645112	9.39	ug/L		93
89) 1,3,5-Trimethylbenzene	11.134	105	829185	9.55	ug/L		96
90) 4-Chlorotoluene	11.138	91	800877	9.34	ug/L		99
92) tert-Butylbenzene	11.464	119	726477	10.60	ug/L		95
93) 1,2,4-Trimethylbenzene	11.509	105	828297	10.31	ug/L		95
94) sec-Butylbenzene	11.682	105	1052796	10.85	ug/L		99
95) 1,3-Dichlorobenzene	11.777	146	520308	11.04	ug/L		98
96) p-Isopropyltoluene	11.831	119	985928	11.11	ug/L		98
97) 1,4-Dichlorobenzene	11.863	146	538013	11.09	ug/L		99
98) 1,2,3-Trimethylbenzene	11.926	105	880672	10.74	ug/L	#	100
99) n-Butylbenzene	12.239	91	892504	10.85	ug/L		98
100) 1,2-Dichlorobenzene	12.234	146	497939	11.10	ug/L		99
101) 1,2-Dibromo-3-chloropr...	13.004	75	46662	9.76	ug/L	#	81
102) 1,3,5-Trichlorobenzene	13.235	180	376250	10.64	ug/L		99
103) 1,2,4-Trichlorobenzene	13.846	180	367781	10.83	ug/L		99
104) Hexachlorobutadiene	14.036	225	161698	10.10	ug/L		99
105) Naphthalene	14.082	128	998164	11.15	ug/L		100
106) 1,2,3-Trichlorobenzene	14.326	180	344253	10.94	ug/L		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\1\data\G051324\
Data File : G24V13402.D
Acq On : 13 May 2024 4:17 am
Operator :
Sample : BFB/8260 STD 10PPB 24B1017 Inst : GCMSVOA7
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 13 04:37:58 2024
Quant Method : D:\msdchem\1\methods\GS030124.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Fri Mar 01 13:48:51 2024
Response via : Initial Calibration

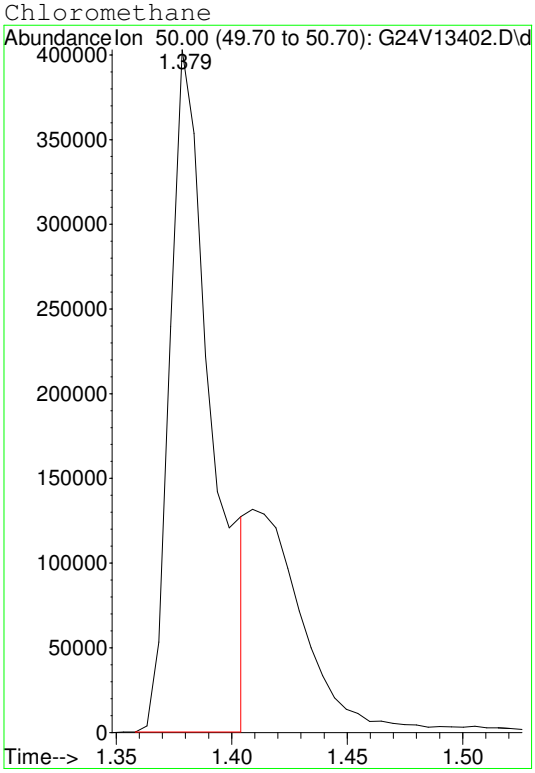




Data Path : X:\1\data\G051324\
Data File : G24V13402.D
Acq On : 13 May 2024 4:17 am
Operator :
Sample : BFB/8260 STD 10PPB 24B1017
Misc :

Quant Time : Mon May 13 04:37:58 2024
Quant Method : D:\msdchem\1\methods\GS030124.M
QLast Update : Fri Mar 01 13:48:51 2024

Original Integration
Chloromethane



Original Int. Results

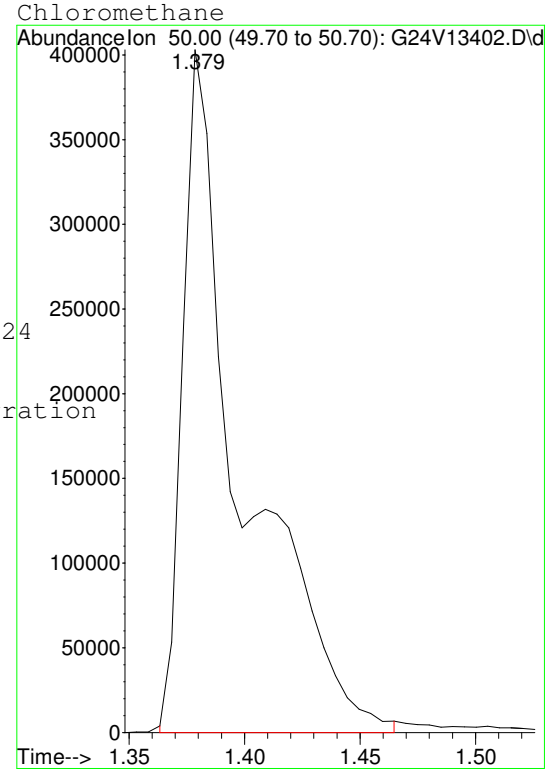
RT : 1.38
Area : 505914
Amount: 12.1561

Manual Int. Results

Mon May 13 04:37:58 2024

MIuser: MFF
Reason: Incorret Integration
RT : 1.38
Area : 716116
Amount: 17.2069

Manual Integration
Chloromethane



8 - FORM VIII
INTERNAL STANDARD AREA AND RT SUMMARY

SW-846 8260D

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Sequence:	S104464	Instrument:	GCMSVOA7
		Calibration:	2400276

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S104464-CCV1)			*Lab File ID: G24V13402.D*			*Analyzed: 05/13/24 04:17*			
Pentafluorobenzene	1649612	5.574				50 - 200		+/-0.50	
1,4-Difluorobenzene	2866472	6.42				50 - 200		+/-0.50	
Chlorobenzene-d5	1129622	9.488				50 - 200		+/-0.50	
1,4-Dichlorobenzene-d4	1411787	11.84				50 - 200		+/-0.50	
LCS (B374129-BS1)			*Lab File ID: G24V13403.D*			*Analyzed: 05/13/24 04:43*			
Pentafluorobenzene	1718522	5.579	1649612	5.574	104	50 - 200	0.0050	+/-0.50	
1,4-Difluorobenzene	2804099	6.42	2866472	6.42	98	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1133207	9.488	1129622	9.488	100	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	1408423	11.84	1411787	11.84	100	50 - 200	0.0000	+/-0.50	
LCS Dup (B374129-BSD1)			*Lab File ID: G24V13404.D*			*Analyzed: 05/13/24 05:08*			
Pentafluorobenzene	1675488	5.579	1649612	5.574	102	50 - 200	0.0050	+/-0.50	
1,4-Difluorobenzene	2823007	6.42	2866472	6.42	98	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1120381	9.488	1129622	9.488	99	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	1406685	11.84	1411787	11.84	100	50 - 200	0.0000	+/-0.50	
Blank (B374129-BLK1)			*Lab File ID: G24V13408.D*			*Analyzed: 05/13/24 06:51*			
Pentafluorobenzene	1560447	5.574	1649612	5.574	95	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	2745174	6.42	2866472	6.42	96	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1092990	9.488	1129622	9.488	97	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	1328786	11.84	1411787	11.84	94	50 - 200	0.0000	+/-0.50	
SB1A (24E1437-06)			*Lab File ID: G24V13409.D*			*Analyzed: 05/13/24 07:16*			
Pentafluorobenzene	1495550	5.574	1649612	5.574	91	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	2672837	6.42	2866472	6.42	93	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1058119	9.488	1129622	9.488	94	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	1259175	11.84	1411787	11.84	89	50 - 200	0.0000	+/-0.50	
CG-2 (24E1437-02)			*Lab File ID: G24V13410.D*			*Analyzed: 05/13/24 07:42*			
Pentafluorobenzene	1400603	5.574	1649612	5.574	85	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	2626443	6.42	2866472	6.42	92	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1011883	9.488	1129622	9.488	90	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	1114465	11.84	1411787	11.84	79	50 - 200	0.0000	+/-0.50	

8 - FORM VIII
INTERNAL STANDARD AREA AND RT SUMMARY

SW-846 8260D

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Sequence:	S104464	Instrument:	GCMSVOA7
		Calibration:	2400276

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Matrix Spike (B374129-MS1)			*Lab File ID: G24V13411.D*			*Analyzed: 05/13/24 08:09*			
Pentafluorobenzene	1476987	5.574	1649612	5.574	90	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	2704675	6.42	2866472	6.42	94	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1085897	9.488	1129622	9.488	96	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	1335687	11.84	1411787	11.84	95	50 - 200	0.0000	+/-0.50	
Matrix Spike Dup (B374129-MSD1)			*Lab File ID: G24V13412.D*			*Analyzed: 05/13/24 08:36*			
Pentafluorobenzene	1520273	5.574	1649612	5.574	92	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	2703475	6.415	2866472	6.42	94	50 - 200	-0.0050	+/-0.50	
Chlorobenzene-d5	1113663	9.488	1129622	9.488	99	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	1364108	11.84	1411787	11.84	97	50 - 200	0.0000	+/-0.50	
B1A (24E1437-04)			*Lab File ID: G24V13414.D*			*Analyzed: 05/13/24 09:27*			
Pentafluorobenzene	1596574	5.574	1649612	5.574	97	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	2721301	6.42	2866472	6.42	95	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1035014	9.488	1129622	9.488	92	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	1259471	11.84	1411787	11.84	89	50 - 200	0.0000	+/-0.50	
SB4A (24E1437-12)			*Lab File ID: G24V13415.D*			*Analyzed: 05/13/24 09:53*			
Pentafluorobenzene	1497524	5.579	1649612	5.574	91	50 - 200	0.0050	+/-0.50	
1,4-Difluorobenzene	2730997	6.42	2866472	6.42	95	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1049493	9.488	1129622	9.488	93	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	1292301	11.84	1411787	11.84	92	50 - 200	0.0000	+/-0.50	
SB7 (24E1437-17)			*Lab File ID: G24V13416.D*			*Analyzed: 05/13/24 10:18*			
Pentafluorobenzene	1501850	5.579	1649612	5.574	91	50 - 200	0.0050	+/-0.50	
1,4-Difluorobenzene	2539475	6.42	2866472	6.42	89	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	984275	9.488	1129622	9.488	87	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	1182348	11.84	1411787	11.84	84	50 - 200	0.0000	+/-0.50	
DUP (24E1437-19)			*Lab File ID: G24V13417.D*			*Analyzed: 05/13/24 10:44*			
Pentafluorobenzene	1616962	5.579	1649612	5.574	98	50 - 200	0.0050	+/-0.50	
1,4-Difluorobenzene	2683036	6.42	2866472	6.42	94	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	1034551	9.488	1129622	9.488	92	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	1228539	11.84	1411787	11.84	87	50 - 200	0.0000	+/-0.50	

QC DATA

1 - FORM I
ANALYSIS DATA SHEET

Blank

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374129-BLK1	File ID:	G24V13408.D
Sampled:		Prepared:	05/13/24 04:00	Analyzed:	05/13/24 06:51
Solids:		Preparation:	SW-846 5035	Dilution:	
Initial/Final:	5 g / 10 mL				
Batch:	B374129	Sequence:	S104464	Calibration:	2400276
Instrument:	GCMSVOA7				
Column:	1				

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
67-64-1	Acetone		0.052	0.10	
71-43-2	Benzene		0.00063	0.0020	
74-97-5	Bromochloromethane		0.00086	0.0020	
75-27-4	Bromodichloromethane		0.00051	0.0020	
75-25-2	Bromoform		0.00088	0.0020	
74-83-9	Bromomethane		0.0018	0.010	
78-93-3	2-Butanone (MEK)		0.0084	0.040	
104-51-8	n-Butylbenzene		0.00073	0.0020	
135-98-8	sec-Butylbenzene		0.00080	0.0020	
98-06-6	tert-Butylbenzene		0.00073	0.0020	
75-15-0	Carbon Disulfide		0.010	0.020	
56-23-5	Carbon Tetrachloride		0.00058	0.0020	
108-90-7	Chlorobenzene		0.00048	0.0020	
124-48-1	Chlorodibromomethane		0.00066	0.0010	
75-00-3	Chloroethane		0.0014	0.020	
67-66-3	Chloroform		0.00065	0.0040	
74-87-3	Chloromethane		0.0012	0.010	
110-82-7	Cyclohexane		0.0041	0.010	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.00081	0.0020	
106-93-4	1,2-Dibromoethane (EDB)		0.00073	0.0010	
95-50-1	1,2-Dichlorobenzene		0.00064	0.0020	
541-73-1	1,3-Dichlorobenzene		0.00058	0.0020	
106-46-7	1,4-Dichlorobenzene		0.00062	0.0020	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.00088	0.020	V-05
75-34-3	1,1-Dichloroethane		0.00061	0.0020	
107-06-2	1,2-Dichloroethane		0.00069	0.0020	
75-35-4	1,1-Dichloroethylene		0.00096	0.0040	
156-59-2	cis-1,2-Dichloroethylene		0.00069	0.0020	
156-60-5	trans-1,2-Dichloroethylene		0.00060	0.0020	

1 - FORM I
ANALYSIS DATA SHEET

Blank

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374129-BLK1	File ID:	G24V13408.D
Sampled:		Prepared:	05/13/24 04:00	Analyzed:	05/13/24 06:51
Solids:		Preparation:	SW-846 5035	Dilution:	
Initial/Final:	5 g / 10 mL				
Batch:	B374129	Sequence:	S104464	Calibration:	2400276
Instrument:	GCMSVOA7				
Column:	1				

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
78-87-5	1,2-Dichloropropane		0.00062	0.0020	
10061-01-5	cis-1,3-Dichloropropene		0.00076	0.0010	
10061-02-6	trans-1,3-Dichloropropene		0.00077	0.0010	
100-41-4	Ethylbenzene		0.00058	0.0020	
591-78-6	2-Hexanone (MBK)		0.0069	0.020	
98-82-8	Isopropylbenzene (Cumene)		0.00077	0.0020	
99-87-6	p-Isopropyltoluene (p-Cymene)		0.00065	0.0020	
79-20-9	Methyl Acetate		0.0013	0.0020	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.00088	0.0040	
108-87-2	Methyl Cyclohexane		0.00071	0.0020	
75-09-2	Methylene Chloride		0.00094	0.020	
108-10-1	4-Methyl-2-pentanone (MIBK)		0.0088	0.020	
91-20-3	Naphthalene		0.00099	0.0040	
103-65-1	n-Propylbenzene		0.00066	0.0020	
100-42-5	Styrene		0.00064	0.0020	
79-34-5	1,1,2,2-Tetrachloroethane		0.00077	0.0010	
127-18-4	Tetrachloroethylene		0.00087	0.0020	
108-88-3	Toluene		0.00059	0.0020	
87-61-6	1,2,3-Trichlorobenzene		0.00066	0.0020	
120-82-1	1,2,4-Trichlorobenzene		0.00066	0.0020	
71-55-6	1,1,1-Trichloroethane		0.00059	0.0020	
79-00-5	1,1,2-Trichloroethane		0.00052	0.0020	
79-01-6	Trichloroethylene		0.00075	0.0020	
75-69-4	Trichlorofluoromethane (Freon 11)		0.0012	0.010	
96-18-4	1,2,3-Trichloropropane		0.00081	0.0020	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.0010	0.010	
95-63-6	1,2,4-Trimethylbenzene		0.00096	0.0020	
108-67-8	1,3,5-Trimethylbenzene		0.00080	0.0020	
75-01-4	Vinyl Chloride		0.00078	0.010	

1 - FORM I
ANALYSIS DATA SHEET

Blank

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374129-BLK1	File ID:	G24V13408.D
Sampled:		Prepared:	05/13/24 04:00	Analyzed:	05/13/24 06:51
Solids:		Preparation:	SW-846 5035	Dilution:	
Initial/Final:	5 g / 10 mL				
Batch:	B374129	Sequence:	S104464	Calibration:	2400276
Instrument:	GCMSVOA7				
Column:	1				

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
179601-23-1	m+p Xylene		0.0014	0.0040	
95-47-6	o-Xylene		0.00068	0.0020	
1330-20-7	Xylenes (total)		0.0020	0.0020	

Quantitation Report (QT Reviewed)

Data Path : X:\1\data\G051324\
Data File : G24V13408.D
Acq On : 13 May 2024 6:51 am
Operator :
Sample : B0BLK1 Inst : GCMSVOA7
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 13 07:08:38 2024
Quant Method : X:\1\methods\GS030124.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Fri Mar 01 13:48:51 2024
Response via : Initial Calibration

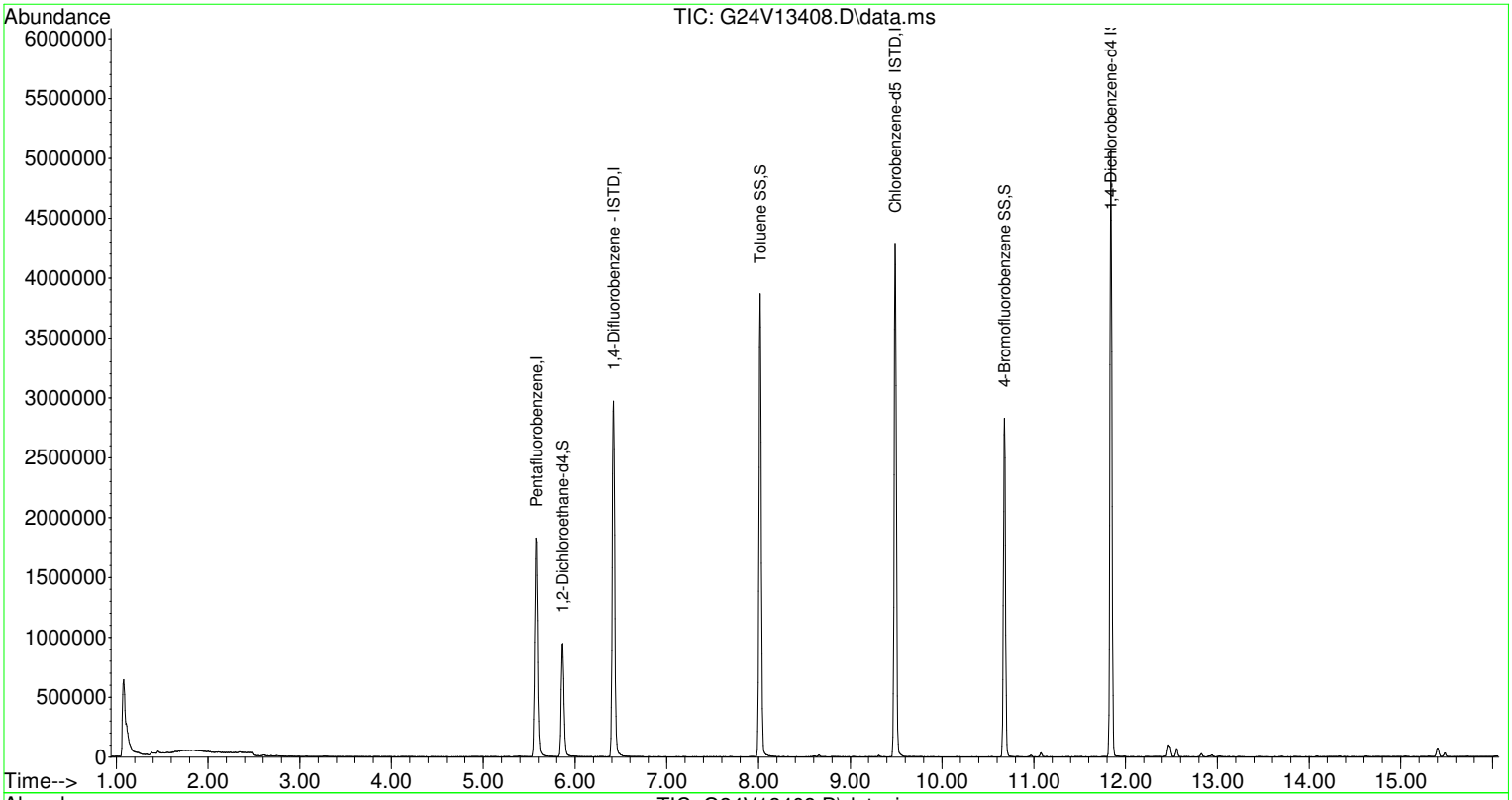
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.574	168	1560447	30.00	ug/L	0.00
49) 1,4-Difluorobenzene - ...	6.420	114	2745174	30.00	ug/L	0.00
72) Chlorobenzene-d5 ISTD	9.488	82	1092990	30.00	ug/L	#-0.01
91) 1,4-Dichlorobenzene-d4...	11.840	152	1328786	30.00	ug/L	-0.01
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4	5.866	65	627834	25.70	ug/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 102.80%			
50) Toluene SS	8.016	98	2545525	23.46	ug/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 93.84%			
73) 4-Bromofluorobenzene SS	10.681	95	916496	21.18	ug/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 84.72%			
Target Compounds						Qvalue

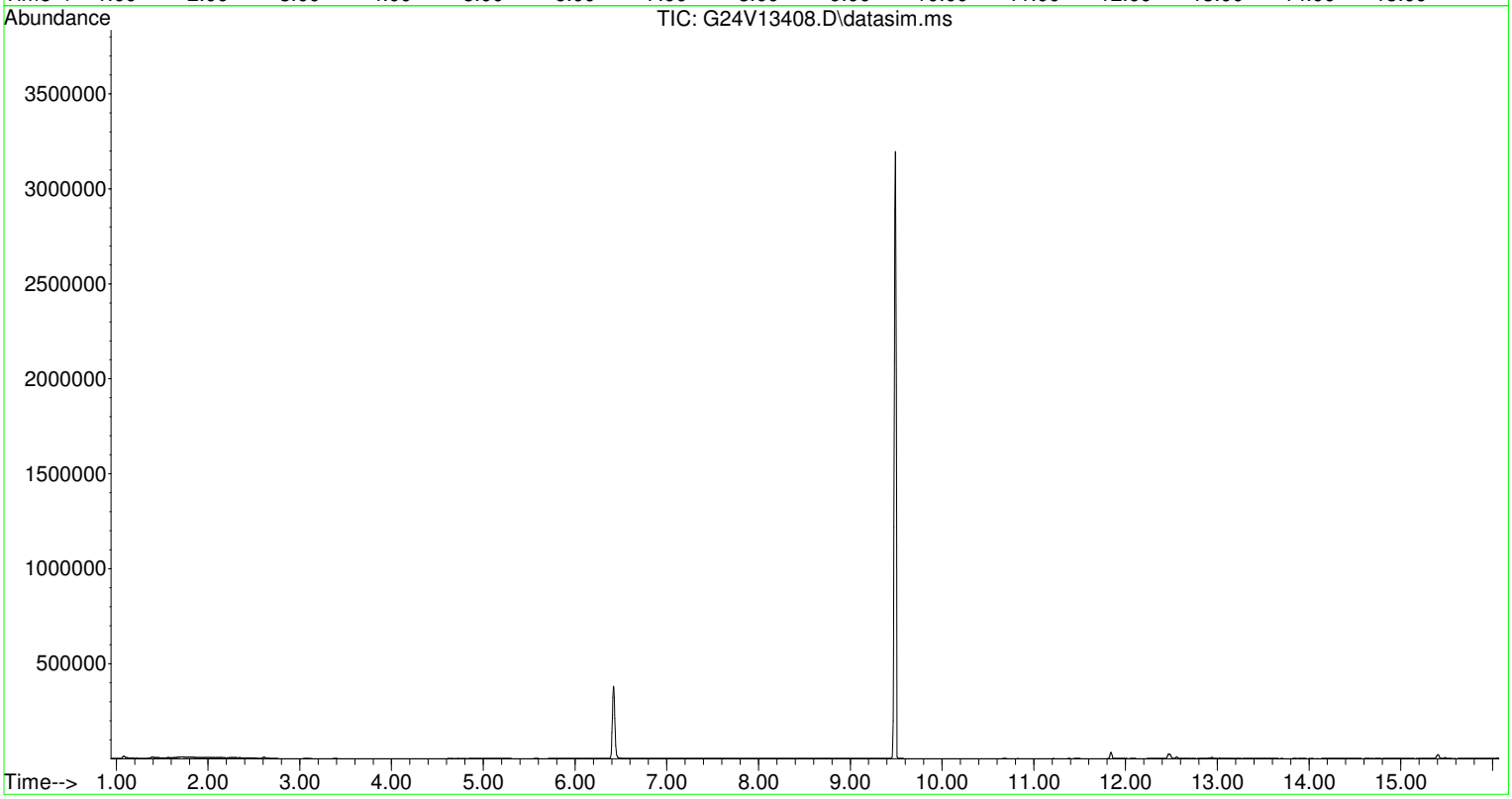
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\1\data\G051324\
Data File : G24V13408.D
Acq On : 13 May 2024 6:51 am
Operator :
Sample : B0BLK1 Inst : GCMSVOA7
Misc :
ALS Vial : 8 Sample Multiplier: 1

400

Quant Time: May 13 07:08:38 2024
Quant Method : X:\1\methods\GS030124.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Fri Mar 01 13:48:51 2024
Response via : Initial Calibration

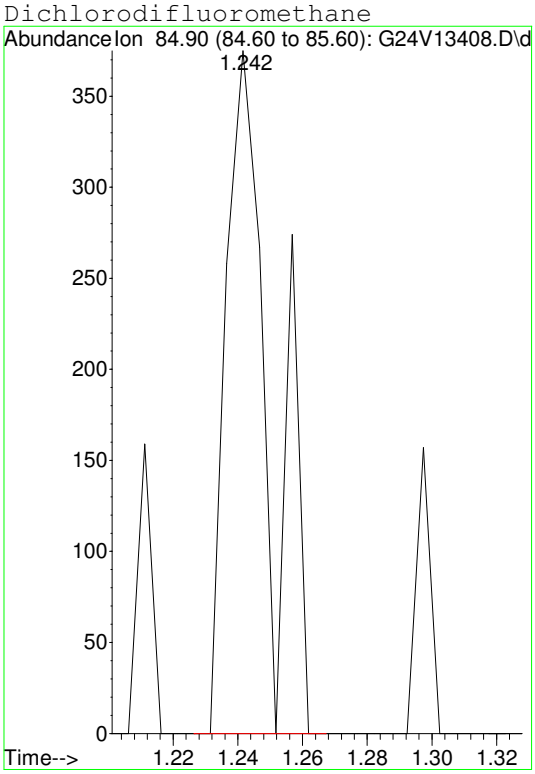




Data Path : X:\1\data\G051324\
Data File : G24V13408.D
Acq On : 13 May 2024 6:51 am
Operator :
Sample : B0BLK1
Misc :

Quant Time : Mon May 13 07:08:38 2024
Quant Method : X:\1\methods\GS030124.M
QLast Update : Fri Mar 01 13:48:51 2024

Original Integration
Dichlorodifluoromethane



Original Int. Results

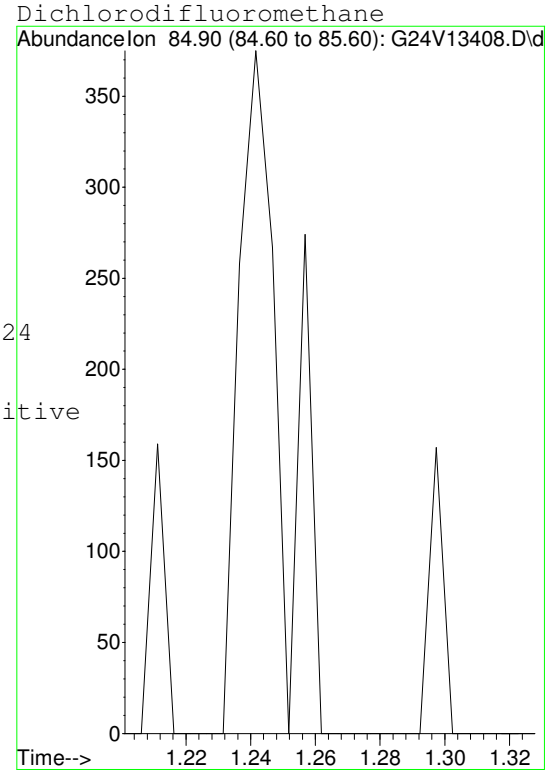
RT : 1.24
Area : 357
Amount: 1.00959

Manual Int. Results

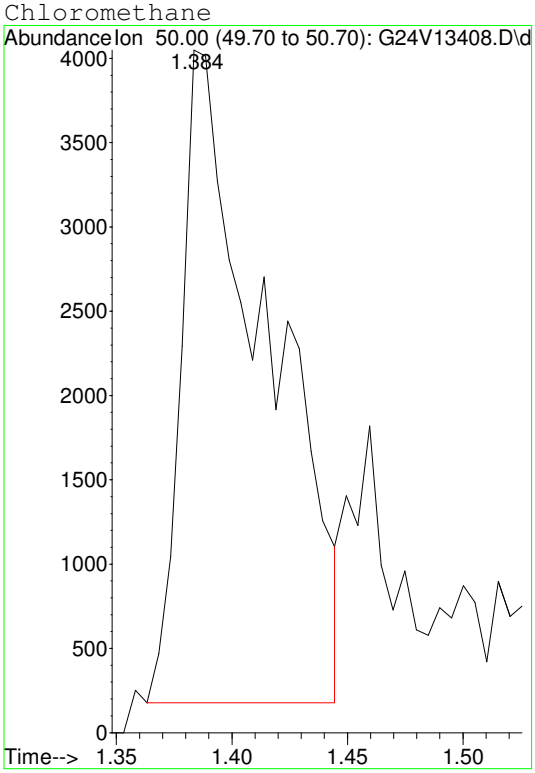
Mon May 13 07:08:08 2024

MIuser: MFF
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration
Dichlorodifluoromethane



Original Integration
Chloromethane



Original Int. Results

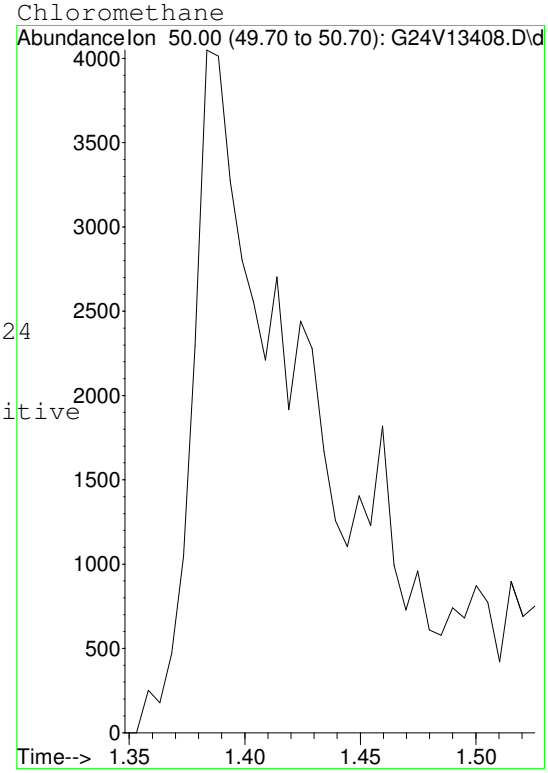
RT : 1.38
Area : 10108
Amount: 0.256754

Manual Int. Results

Mon May 13 07:08:11 2024

MIuser: MFF
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

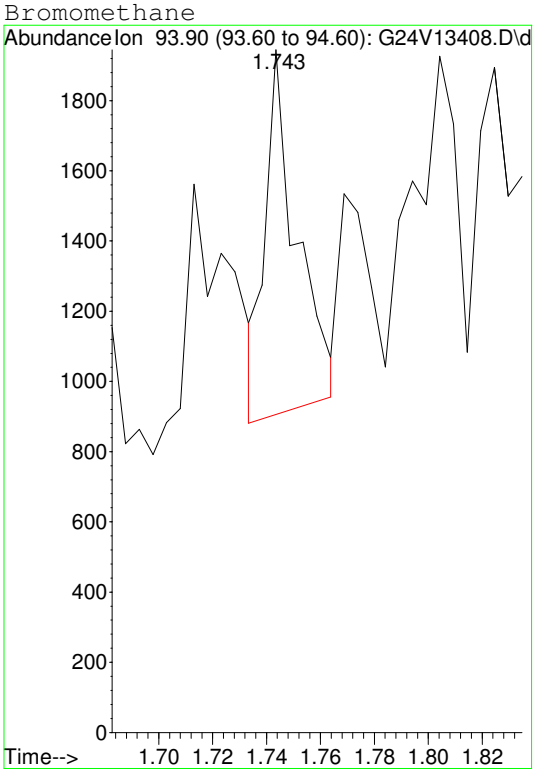
Manual Integration
Chloromethane



Data Path : X:\1\data\G051324\
Data File : G24V13408.D
Acq On : 13 May 2024 6:51 am
Operator :
Sample : B0BLK1
Misc :

Quant Time : Mon May 13 07:08:38 2024
Quant Method : X:\1\methods\GS030124.M
QLast Update : Fri Mar 01 13:48:51 2024

Original Integration
Bromomethane



Original Int. Results

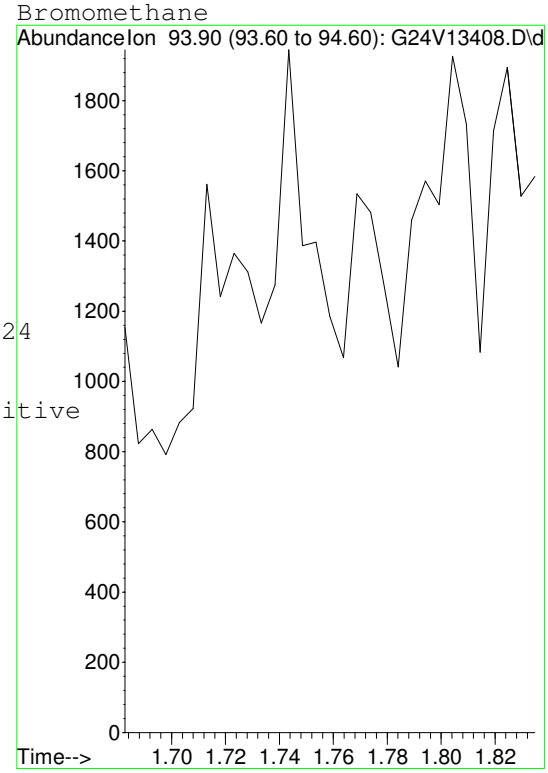
RT : 1.74
Area : 836
Amount: 0.0953598

Manual Int. Results

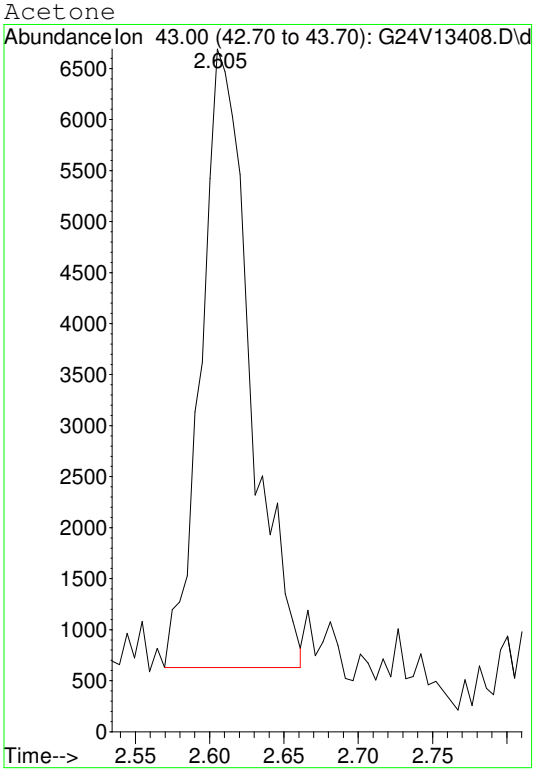
Mon May 13 07:08:13 2024

MIuser: MFF
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration
Bromomethane



Original Integration
Acetone



Original Int. Results

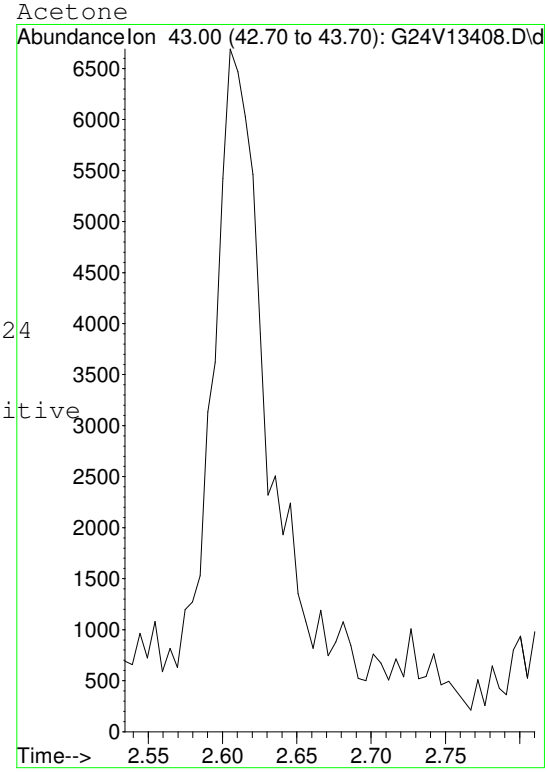
RT : 2.61
Area : 13887
Amount: 1.47223

Manual Int. Results

Mon May 13 07:08:19 2024

MIuser: MFF
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

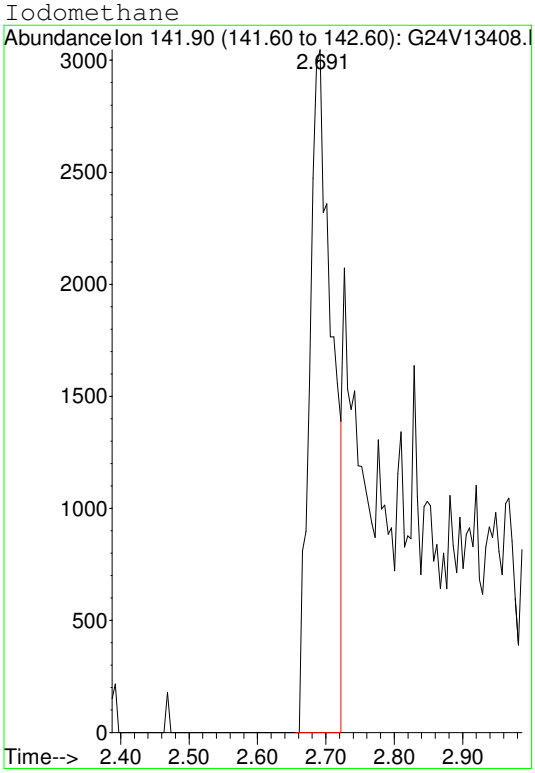
Manual Integration
Acetone



Data Path : X:\1\data\G051324\
Data File : G24V13408.D
Acq On : 13 May 2024 6:51 am
Operator :
Sample : B0BLK1
Misc :

Quant Time : Mon May 13 07:08:38 2024
Quant Method : X:\1\methods\GS030124.M
QLast Update : Fri Mar 01 13:48:51 2024

Original Integration
Iodomethane



Original Int. Results

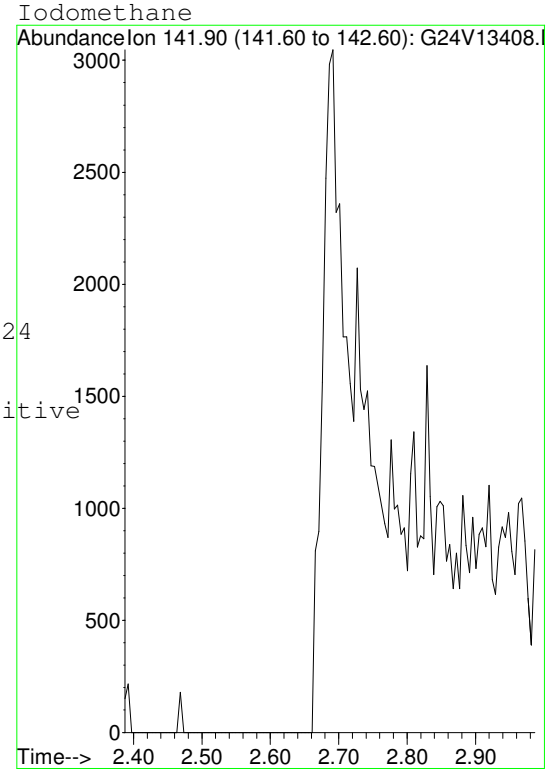
RT : 2.69
Area : 6974
Amount: 0.251182

Manual Int. Results

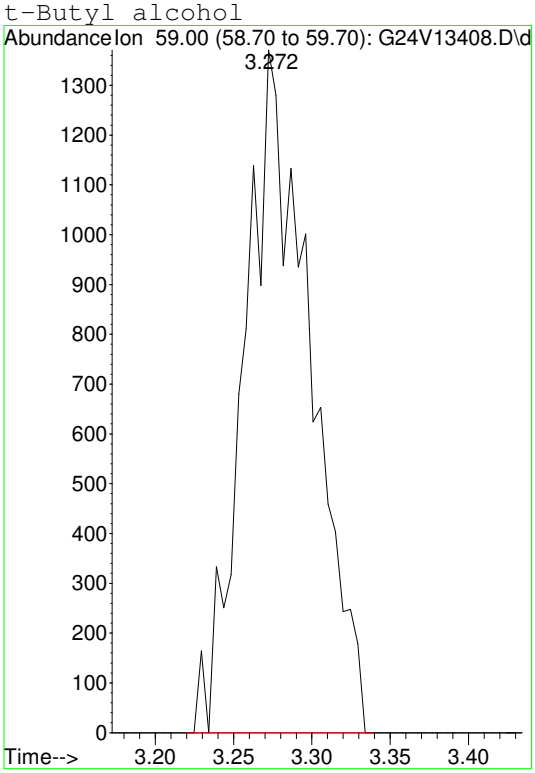
Mon May 13 07:08:22 2024

MIuser: MFF
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration
Iodomethane



Original Integration
t-Butyl alcohol



Original Int. Results

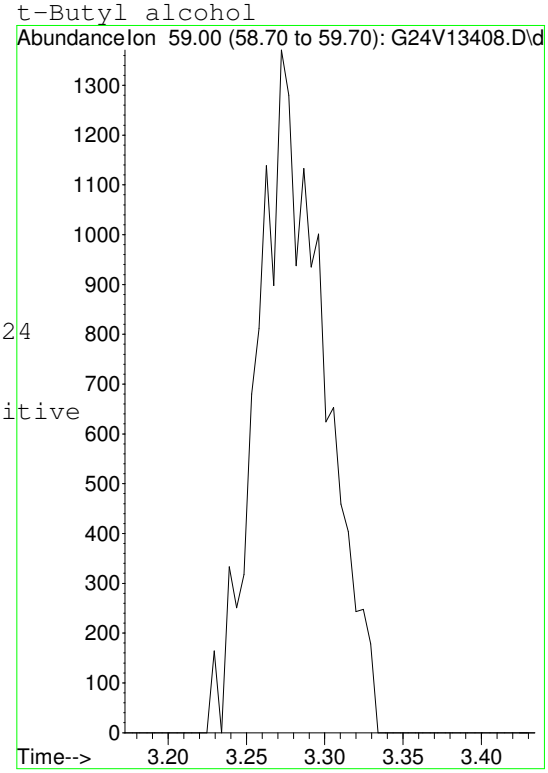
RT : 3.27
Area : 4016
Amount: 1.40857

Manual Int. Results

Mon May 13 07:08:25 2024

MIuser: MFF
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

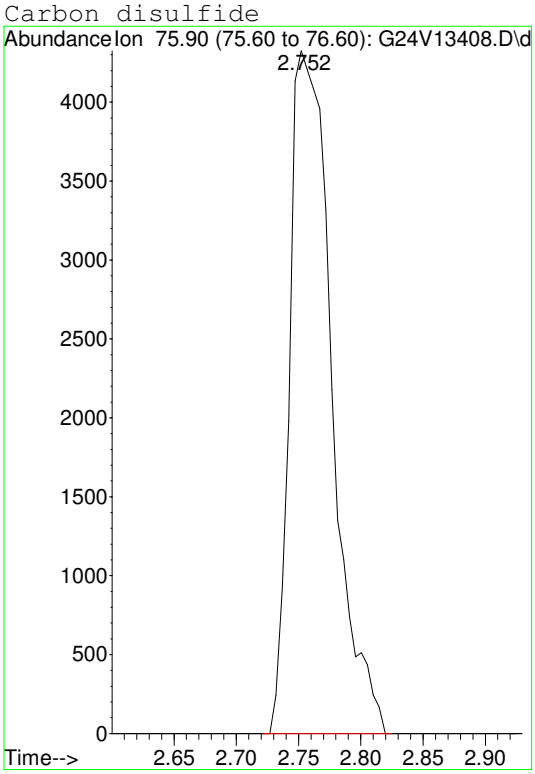
Manual Integration
t-Butyl alcohol



Data Path : X:\1\data\G051324\
Data File : G24V13408.D
Acq On : 13 May 2024 6:51 am
Operator :
Sample : B0BLK1
Misc :

Quant Time : Mon May 13 07:08:38 2024
Quant Method : X:\1\methods\GS030124.M
QLast Update : Fri Mar 01 13:48:51 2024

Original Integration
Carbon disulfide



Original Int. Results

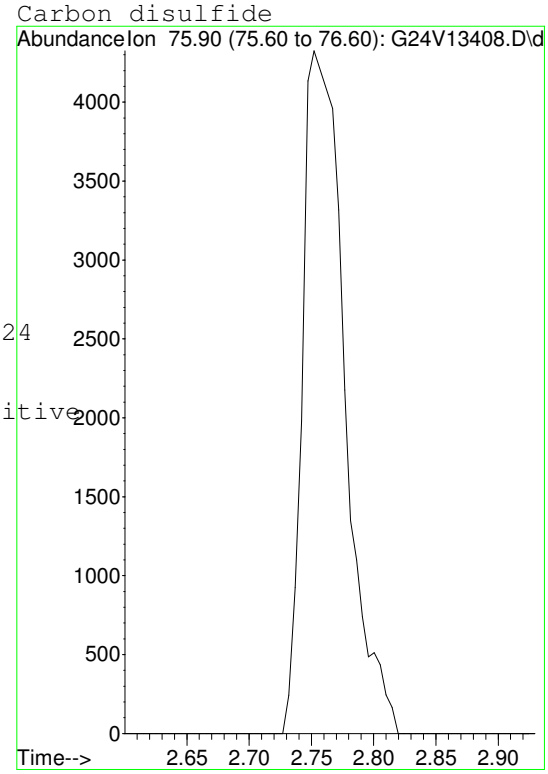
RT : 2.75
Area : 8451
Amount: 0.309259

Manual Int. Results

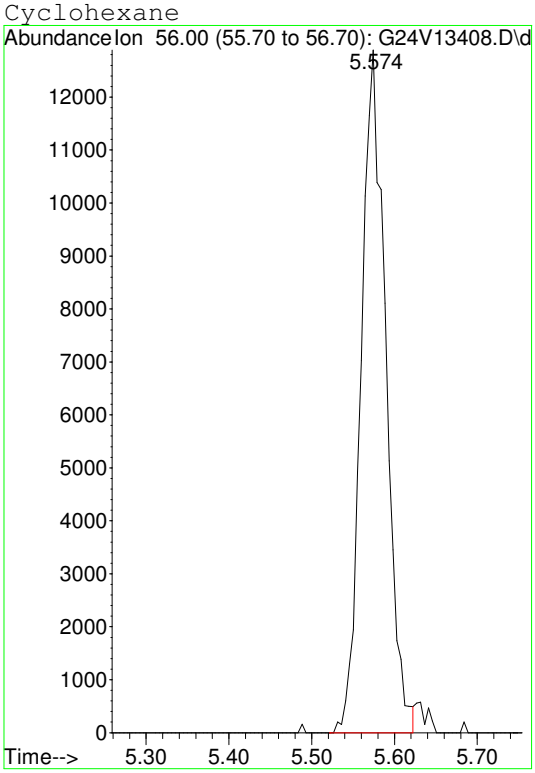
Mon May 13 07:08:28 2024

MIuser: MFF
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration
Carbon disulfide



Original Integration
Cyclohexane



Original Int. Results

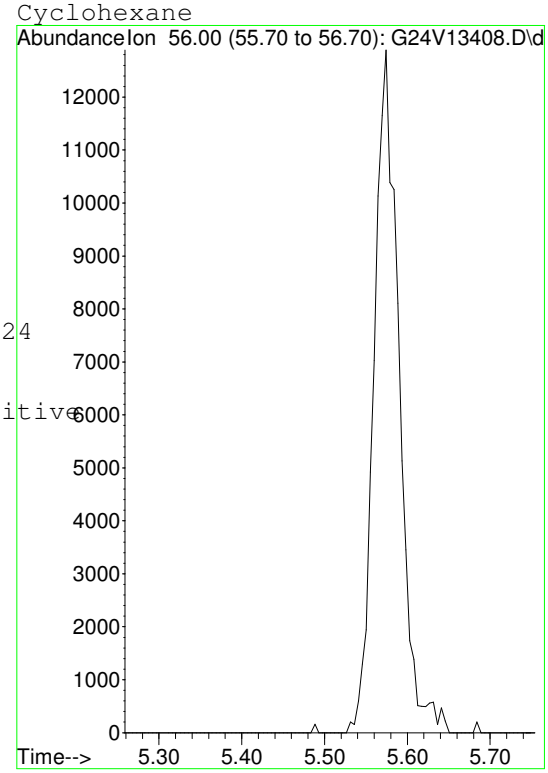
RT : 5.57
Area : 26585
Amount: 1.44528

Manual Int. Results

Mon May 13 07:08:32 2024

MIuser: MFF
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

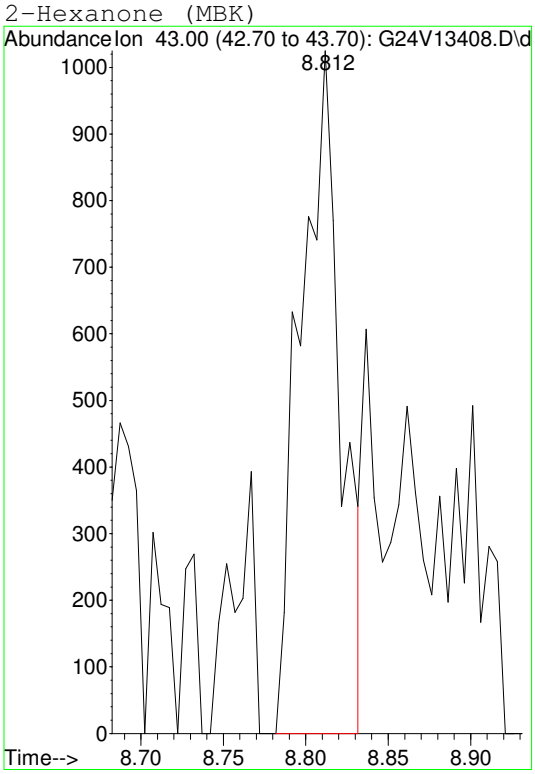
Manual Integration
Cyclohexane



Data Path : X:\1\data\G051324\
Data File : G24V13408.D
Acq On : 13 May 2024 6:51 am
Operator :
Sample : B0BLK1
Misc :

Quant Time : Mon May 13 07:08:38 2024
Quant Method : X:\1\methods\GS030124.M
QLast Update : Fri Mar 01 13:48:51 2024

Original Integration
2-Hexanone (MBK)



Original Int. Results

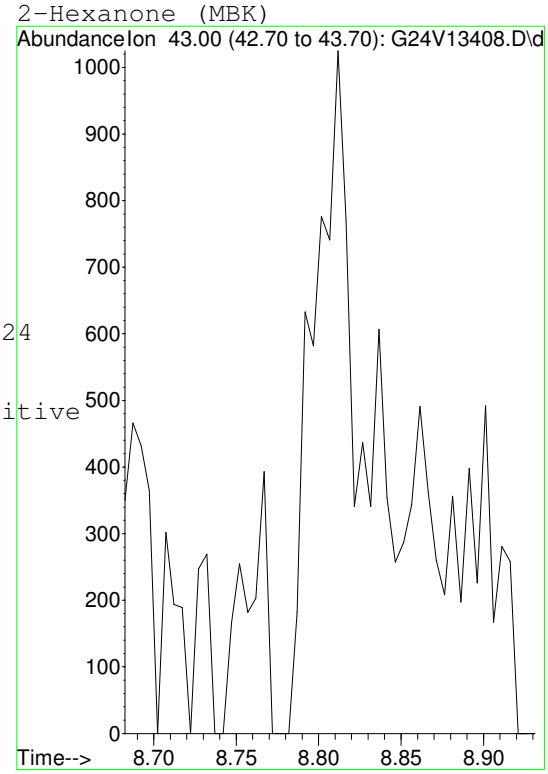
RT : 8.81
Area : 1738
Amount: 0.0950024

Manual Int. Results

Mon May 13 07:08:37 2024

MIuser: MFF
Reason: Qdel False Positive
RT : 0.00
Area : 0
Amount: 0

Manual Integration
2-Hexanone (MBK)



Data Path : X:\1\data\G051324\
Data File : G24V13408.D
Acq On : 13 May 2024 6:51 am
Operator :
Sample : B0BLK1 (Sig #1); BLK (Sig #2)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : X:\1\methods\GS030124.M
Title : 8260 SIM/SCAN 09/21/18

Signal : TIC: G24V13408.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.079	21	28	33	rBV	642055	1284079	16.75%	3.346%
2	5.574	925	936	957	rBV	1827767	3890703	50.75%	10.138%
3	5.866	981	993	1013	rBV	947113	1997733	26.06%	5.206%
4	6.420	1091	1102	1132	rBV	2971441	5838916	76.16%	15.215%
5	8.016	1417	1426	1446	rBV	3866191	6628758	86.46%	17.273%
6	9.488	1709	1719	1739	rBV	4287155	6213466	81.04%	16.191%
7	10.681	1969	1980	1992	rBV	2828248	4375002	57.06%	11.400%
8	11.840	2226	2236	2249	rBV	5068976	7666869	100.00%	19.978%
9	12.469	2362	2375	2388	rBV3	99244	238221	3.11%	0.621%
10	12.555	2388	2394	2401	rVB2	68316	100282	1.31%	0.261%
11	15.404	3013	3023	3032	rVB4	72043	142581	1.86%	0.372%

Sum of corrected areas: 38376610

Signal : TIC: G24V13408.D\datasim.ms

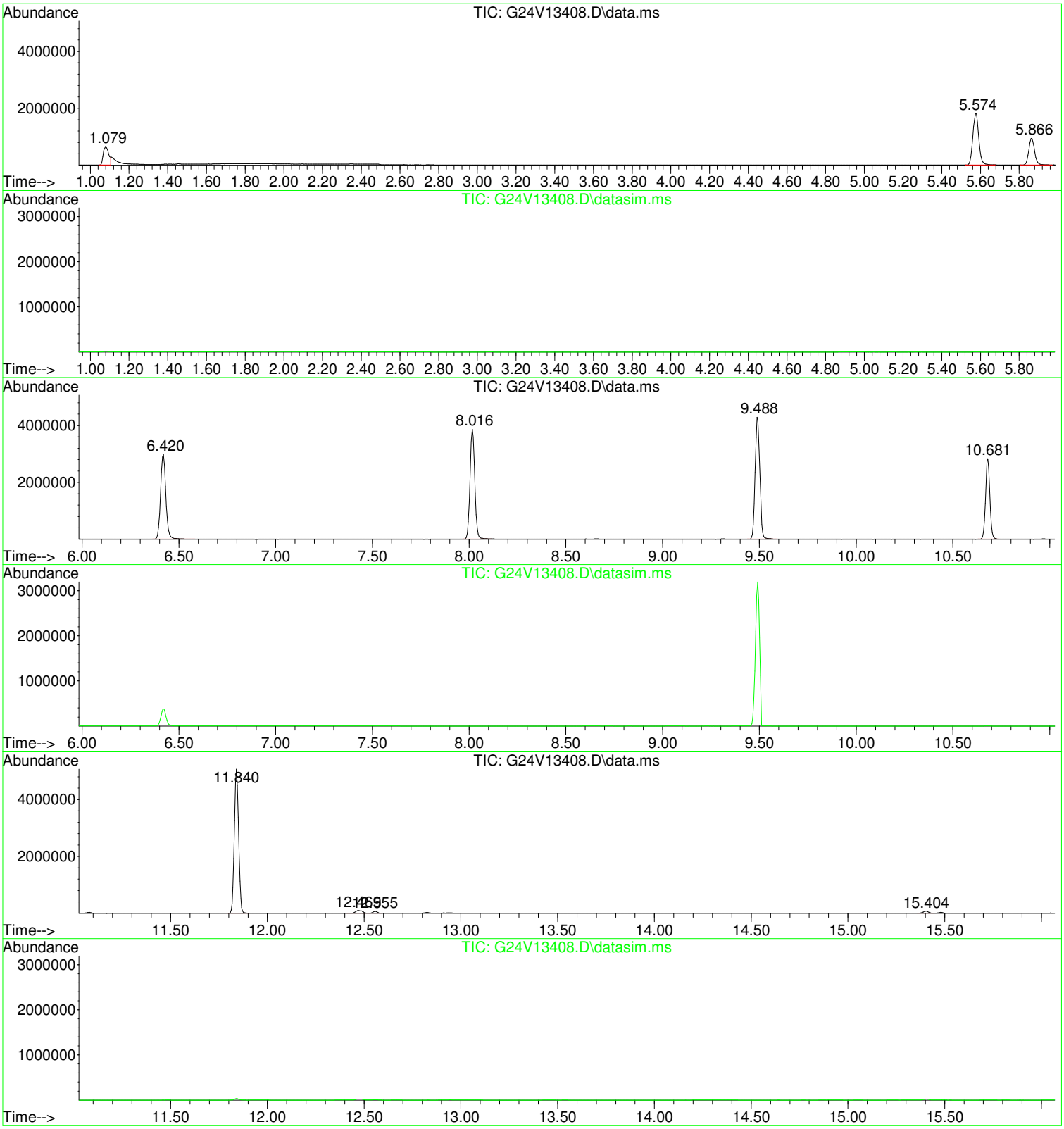
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total

No peaks were detected using the above RTE integration parameters!

Data Path : X:\1\data\G051324\
Data File : G24V13408.D
Acq On : 13 May 2024 6:51 am
Operator :
Sample : B0BLK1 (Sig #1); BLK (Sig #2)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Method : X:\1\methods\GS030124.M
Quant Title : 8260 SIM/SCAN 09/21/18

TIC Library : F:\CTAL-Laboratory\Organics\VPH\NIST08.L
TIC Integration Parameters: LSCINT.P



Data Path : X:\1\data\G051324\
Data File : G24V13408.D
Acq On : 13 May 2024 6:51 am
Operator :
Sample : B0BLK1 (Sig #1); BLK (Sig #2)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Method : X:\1\methods\GS030124.M
Quant Title : 8260 SIM/SCAN 09/21/18

TIC Library : F:\CTAL-Laboratory\Organics\VPH\NIST08.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

409

Data Path : X:\1\data\G051324\
Data File : G24V13408.D
Acq On : 13 May 2024 6:51 am
Operator :
Sample : B0BLK1 (Sig #1); BLK (Sig #2)
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Method : X:\1\methods\GS030124.M
Quant Title : 8260 SIM/SCAN 09/21/18

TIC Library : F:\CTAL-Laboratory\Organics\VPH\NIST08.L
TIC Integration Parameters: LSCINT.P

						--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

1 - FORM I
ANALYSIS DATA SHEET

LCS

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374129-BS1	File ID:	G24V13403.D
Sampled:		Prepared:	05/13/24 04:00	Analyzed:	05/13/24 04:43
Solids:		Preparation:	SW-846 5035	Dilution:	
Initial/Final:	5 g / 10 mL				
Batch:	B374129	Sequence:	S104464	Calibration:	2400276	Instrument:	GCMSVOA7
Column:	1				

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
67-64-1	Acetone	0.202	0.052	0.10	V-35
71-43-2	Benzene	0.0194	0.00063	0.0020	
74-97-5	Bromochloromethane	0.0202	0.00086	0.0020	
75-27-4	Bromodichloromethane	0.0197	0.00051	0.0020	
75-25-2	Bromoform	0.0155	0.00088	0.0020	
74-83-9	Bromomethane	0.0166	0.0018	0.010	
78-93-3	2-Butanone (MEK)	0.215	0.0084	0.040	
104-51-8	n-Butylbenzene	0.0216	0.00073	0.0020	
135-98-8	sec-Butylbenzene	0.0216	0.00080	0.0020	
98-06-6	tert-Butylbenzene	0.0213	0.00073	0.0020	
75-15-0	Carbon Disulfide	0.173	0.010	0.020	
56-23-5	Carbon Tetrachloride	0.0178	0.00058	0.0020	
108-90-7	Chlorobenzene	0.0169	0.00048	0.0020	
124-48-1	Chlorodibromomethane	0.0197	0.00066	0.0010	
75-00-3	Chloroethane	0.0193	0.0014	0.020	J
67-66-3	Chloroform	0.0193	0.00065	0.0040	
74-87-3	Chloromethane	0.0304	0.0012	0.010	L-02, V-20
110-82-7	Cyclohexane	0.0187	0.0041	0.010	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	0.0184	0.00081	0.0020	
106-93-4	1,2-Dibromoethane (EDB)	0.0222	0.00073	0.0010	
95-50-1	1,2-Dichlorobenzene	0.0223	0.00064	0.0020	
541-73-1	1,3-Dichlorobenzene	0.0220	0.00058	0.0020	
106-46-7	1,4-Dichlorobenzene	0.0221	0.00062	0.0020	
75-71-8	Dichlorodifluoromethane (Freon 12)	0.0140	0.00088	0.020	V-05, V-36, J
75-34-3	1,1-Dichloroethane	0.0194	0.00061	0.0020	
107-06-2	1,2-Dichloroethane	0.0214	0.00069	0.0020	
75-35-4	1,1-Dichloroethylene	0.0204	0.00096	0.0040	
156-59-2	cis-1,2-Dichloroethylene	0.0189	0.00069	0.0020	
156-60-5	trans-1,2-Dichloroethylene	0.0191	0.00060	0.0020	

1 - FORM I
ANALYSIS DATA SHEET

LCS

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374129-BS1	File ID:	G24V13403.D
Sampled:		Prepared:	05/13/24 04:00	Analyzed:	05/13/24 04:43
Solids:		Preparation:	SW-846 5035	Dilution:	
Initial/Final:	5 g / 10 mL				
Batch:	B374129	Sequence:	S104464	Calibration:	2400276
Instrument:	GCMSVOA7				
Column:	1				

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	0.0208	0.00062	0.0020	
10061-01-5	cis-1,3-Dichloropropene	0.0203	0.00076	0.0010	
10061-02-6	trans-1,3-Dichloropropene	0.0199	0.00077	0.0010	
100-41-4	Ethylbenzene	0.0195	0.00058	0.0020	
591-78-6	2-Hexanone (MBK)	0.244	0.0069	0.020	
98-82-8	Isopropylbenzene (Cumene)	0.0197	0.00077	0.0020	
99-87-6	p-Isopropyltoluene (p-Cymene)	0.0222	0.00065	0.0020	
79-20-9	Methyl Acetate	0.0219	0.0013	0.0020	
1634-04-4	Methyl tert-Butyl Ether (MTBE)	0.0199	0.00088	0.0040	
108-87-2	Methyl Cyclohexane	0.0204	0.00071	0.0020	
75-09-2	Methylene Chloride	0.0196	0.00094	0.020	J
108-10-1	4-Methyl-2-pentanone (MIBK)	0.251	0.0088	0.020	V-20
91-20-3	Naphthalene	0.0231	0.00099	0.0040	
103-65-1	n-Propylbenzene	0.0205	0.00066	0.0020	
100-42-5	Styrene	0.0194	0.00064	0.0020	
79-34-5	1,1,2,2-Tetrachloroethane	0.0192	0.00077	0.0010	
127-18-4	Tetrachloroethylene	0.0219	0.00087	0.0020	
108-88-3	Toluene	0.0211	0.00059	0.0020	
87-61-6	1,2,3-Trichlorobenzene	0.0222	0.00066	0.0020	
120-82-1	1,2,4-Trichlorobenzene	0.0219	0.00066	0.0020	
71-55-6	1,1,1-Trichloroethane	0.0190	0.00059	0.0020	
79-00-5	1,1,2-Trichloroethane	0.0220	0.00052	0.0020	
79-01-6	Trichloroethylene	0.0204	0.00075	0.0020	
75-69-4	Trichlorofluoromethane (Freon 11)	0.0210	0.0012	0.010	
96-18-4	1,2,3-Trichloropropane	0.0214	0.00081	0.0020	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1	0.0204	0.0010	0.010	
95-63-6	1,2,4-Trimethylbenzene	0.0209	0.00096	0.0020	
108-67-8	1,3,5-Trimethylbenzene	0.0192	0.00080	0.0020	
75-01-4	Vinyl Chloride	0.0181	0.00078	0.010	

1 - FORM I
ANALYSIS DATA SHEET

LCS

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374129-BS1	File ID:	G24V13403.D
Sampled:		Prepared:	05/13/24 04:00	Analyzed:	05/13/24 04:43
Solids:		Preparation:	SW-846 5035	Dilution:	
Initial/Final:	5 g / 10 mL				
Batch:	B374129	Sequence:	S104464	Calibration:	2400276
Instrument:	GCMSVOA7				
Column:	1				

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
179601-23-1	m+p Xylene	0.0399	0.0014	0.0040	
95-47-6	o-Xylene	0.0189	0.00068	0.0020	

Quantitation Report (QT Reviewed)

Data Path : X:\1\data\G051324\
Data File : G24V13403.D
Acq On : 13 May 2024 4:43 am
Operator :
Sample : B0BS1/BS Inst : GCMSVOA7
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 13 05:03:26 2024
Quant Method : X:\1\methods\GS030124.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Fri Mar 01 13:48:51 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.579	168	1718522	30.00	ug/L		0.00
49) 1,4-Difluorobenzene - ...	6.420	114	2804099	30.00	ug/L		0.00
72) Chlorobenzene-d5 ISTD	9.488	82	1133207	30.00	ug/L		#-0.01
91) 1,4-Dichlorobenzene-d4...	11.840	152	1408423	30.00	ug/L		-0.01
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4	5.866	65	627938	23.34	ug/L		0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 93.36%				
50) Toluene SS	8.016	98	2639564	23.81	ug/L		0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 95.24%				
73) 4-Bromofluorobenzene SS	10.681	95	933468	20.81	ug/L		0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 83.24%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.242	85	120482	7.02	ug/L		98
4) Difluorochloromethane	1.267	51	257858	9.07	ug/L		91
5) Chloromethane	1.378	50	659970	15.22	ug/L		99
6) Vinyl chloride	1.475	62	324541	9.04	ug/L		89
7) Bromomethane	1.728	94	80184	8.31	ug/L		95
8) Chloroethane	1.819	64	180329	9.65	ug/L		96
10) Fluorodichloromethane	1.997	67	605550	10.31	ug/L		97
11) Trichlorofluoromethane	2.053	101	449798	10.50	ug/L		99
12) Diethyl ether	2.342	59	294914	10.13	ug/L		89
14) Acetone	2.605	43	1049839	101.06	ug/L		86
15) 1,1-Dichloroethene	2.544	61	435196	10.22	ug/L		96
16) 1,1,2-TRICL-1,2,2-TRIF...	2.560	101	279263	10.20	ug/L		92
17) Iodomethane	2.686	142	2445892	79.99	ug/L		98
19) Methyl acetate	2.982	43	266042	10.97	ug/L		88
20) t-Butyl alcohol	3.272	59	314265	100.09	ug/L		71
21) Acrylonitrile	3.372	53	88754	9.74	ug/L		99
22) Methylene chloride	3.072	49	276211	9.79	ug/L		82
23) Carbon disulfide	2.767	76	2602143	86.46	ug/L	#	91
24) Methyl tert-butyl ethe...	3.463	73	539952	9.95	ug/L		90
25) TRANS 1,2-DICHLOROETHENE	3.420	61	270143	9.53	ug/L		99
26) 1,1-Dichloroethane	4.005	63	342332	9.72	ug/L		98
28) Vinyl acetate	4.134	43	6158814	112.17	ug/L		88
30) Di isopropyl ether	4.200	45	845095	10.25	ug/L		84
31) 2-Butanone (MEK)	4.884	43	1330456	107.30	ug/L		86
33) t-Butyl ethyl ether	4.719	59	633388	9.82	ug/L		97
34) cis-1,2-Dichloroethene	4.839	61	318154	9.46	ug/L		84
35) 2,2-Dichloropropane	4.834	77	259400	8.90	ug/L	#	100
36) Ethyl acetate	5.018	43	232696	10.62	ug/L		100
37) Bromochloromethane	5.143	49	198693	10.11	ug/L		88
38) Tetrahydrofuran	5.239	42	103916	11.28	ug/L		80
39) Chloroform	5.273	83	354868	9.67	ug/L	#	49
42) 1,1,1-Trichloroethane	5.493	97	285467	9.50	ug/L		98
43) Cyclohexane	5.570	56	394327	9.36	ug/L	#	26
44) Carbon tetrachloride	5.698	117	178993	8.92	ug/L	#	1
45) 1,1-Dichloropropene	5.698	75	212328	9.26	ug/L		95
46) Benzene	5.942	78	817417	9.68	ug/L		94
47) tert-Amyl Alcohol (TAA)	6.034	59	238795	103.17	ug/L	#	59
48) T-AMYL METHYL ETHER	6.130	73	532603	9.78	ug/L		85
51) 1,2-Dichloroethane	5.957	62	259180	10.72	ug/L		84
53) Trichloroethene	6.701	95	219652	10.22	ug/L		97
54) Methylcyclohexane	6.920	83	358240	10.19	ug/L	#	80
55) 1,2-Dichloropropane	6.934	63	233025	10.40	ug/L	#	59
56) tert-Amyl Ethyl Ether ...	7.041	59	426005	10.44	ug/L	#	100

Data Path : X:\1\data\G051324\
Data File : G24V13403.D
Acq On : 13 May 2024 4:43 am
Operator :
Sample : B0BS1/BS Inst : GCMSVOA7
Misc :
ALS Vial : 3 Sample Multiplier: 1

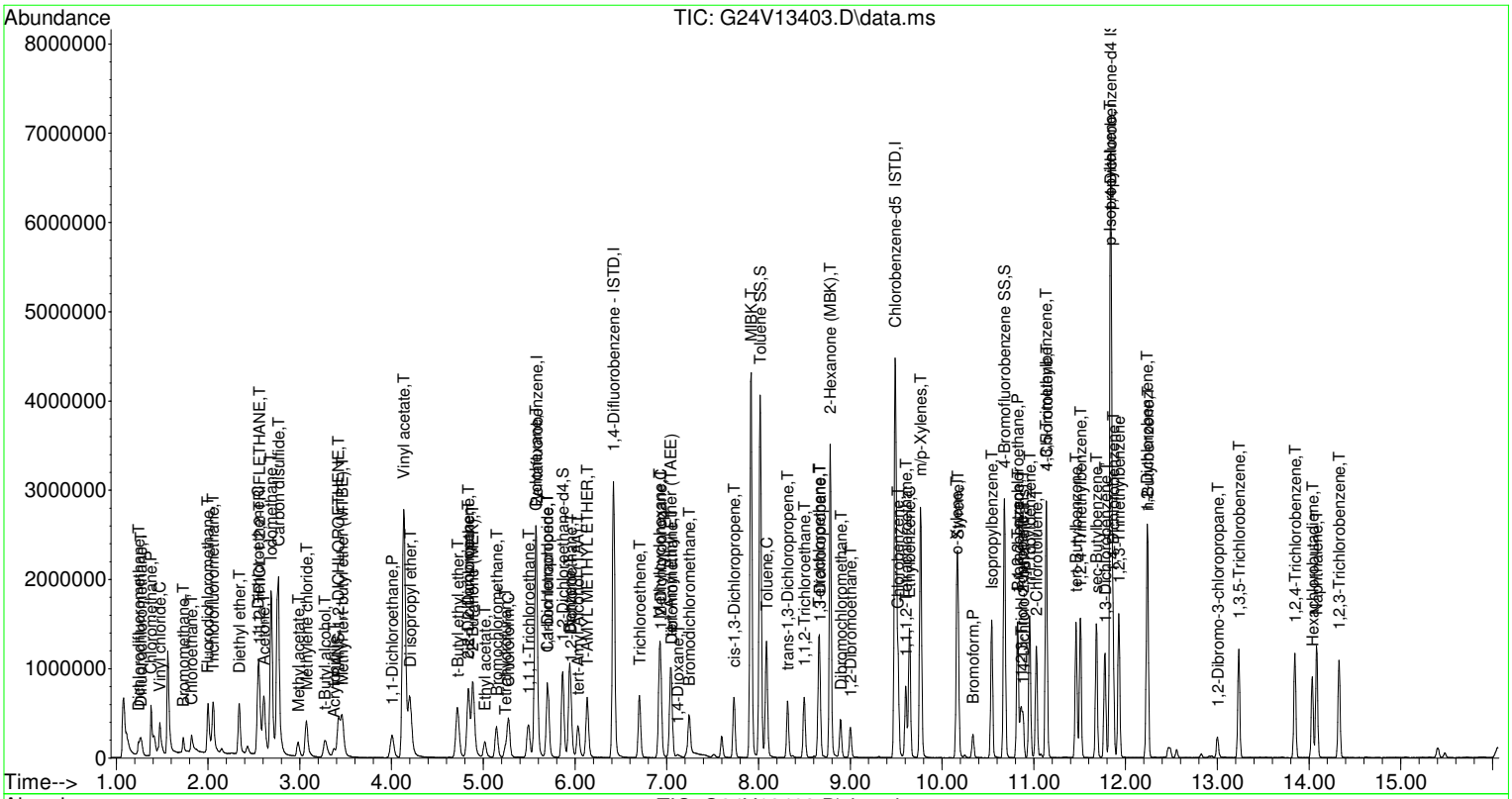
Quant Time: May 13 05:03:26 2024
Quant Method : X:\1\methods\GS030124.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Fri Mar 01 13:48:51 2024
Response via : Initial Calibration

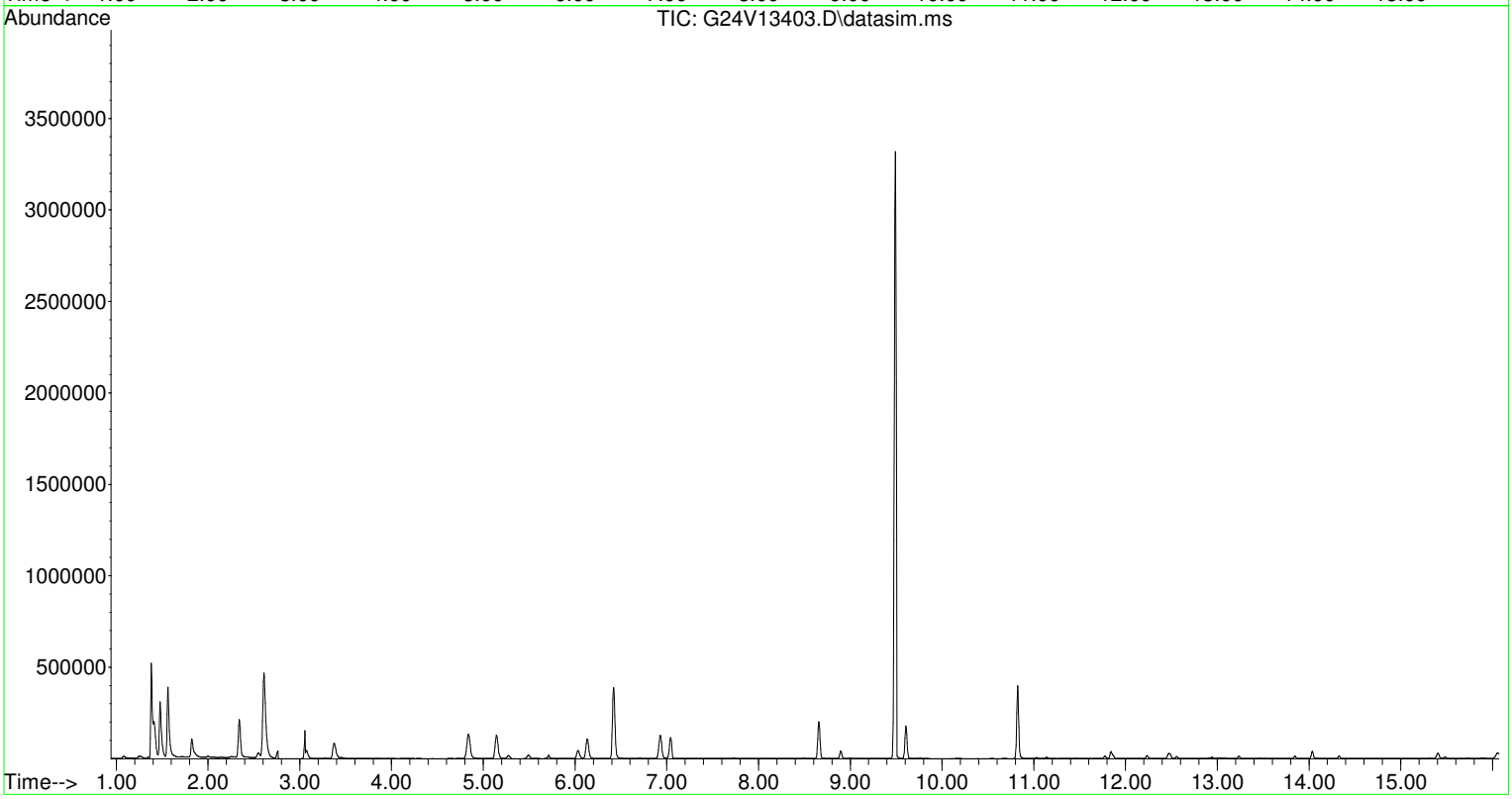
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
57) Dibromomethane	7.051	93	105088	10.61	ug/L		99
58) 1,4-Dioxane	7.116	88	30966	121.50	ug/L		96
59) Bromodichloromethane	7.246	83	252841	9.85	ug/L		99
61) MIBK	7.919	43	2998198	125.36	ug/L		85
62) cis-1,3-Dichloropropene	7.730	75	350298	10.14	ug/L		97
63) Toluene	8.088	91	917337	10.57	ug/L		95
64) trans-1,3-Dichloropropene	8.314	75	290204	9.95	ug/L		93
66) 1,1,2-Trichloroethane	8.498	97	210606	11.00	ug/L		93
67) 2-Hexanone (MBK)	8.782	43	2282002	122.12	ug/L		81
68) Tetrachloroethene	8.658	166	241726	10.97	ug/L		96
69) 1,3-Dichloropropane	8.667	76	345399	10.49	ug/L		94
70) Dibromochloromethane	8.896	129	219990	9.83	ug/L		94
71) 1,2-Dibromoethane	9.001	107	227661	11.12	ug/L		97
74) Chlorobenzene	9.517	112	561479	8.44	ug/L		97
75) 1,1,1,2-Tetrachloroethane	9.607	131	216590	9.80	ug/L		100
76) Ethylbenzene	9.644	91	1003337	9.73	ug/L		98
77) m/p-Xylenes	9.766	91	1537729	19.93	ug/L		95
78) o-Xylene	10.160	91	777355	9.44	ug/L		93
79) Styrene	10.174	104	692338	9.70	ug/L		97
80) Bromoform	10.337	173	117943	7.75	ug/L		98
81) Isopropylbenzene	10.540	105	984010	9.84	ug/L		96
83) 1,1,2,2-Tetrachloroethane	10.821	83	290708	9.60	ug/L		99
84) 1,4-Dichloro-2-butene(...	10.884	53	83837	9.28	ug/L		84
85) Bromobenzene	10.826	77	393193	9.06	ug/L		98
86) 1,2,3-Trichloropropane	10.866	75	314487	10.69	ug/L		85
87) n-Propylbenzene	10.957	91	1179339	10.23	ug/L		98
88) 2-Chlorotoluene	11.029	91	641314	9.31	ug/L		93
89) 1,3,5-Trimethylbenzene	11.134	105	834024	9.58	ug/L		97
90) 4-Chlorotoluene	11.138	91	800115	9.30	ug/L		100
92) tert-Butylbenzene	11.460	119	726598	10.63	ug/L		95
93) 1,2,4-Trimethylbenzene	11.509	105	839242	10.47	ug/L		95
94) sec-Butylbenzene	11.681	105	1044027	10.79	ug/L		99
95) 1,3-Dichlorobenzene	11.777	146	516748	10.99	ug/L		97
96) p-Isopropyltoluene	11.831	119	981794	11.09	ug/L		97
97) 1,4-Dichlorobenzene	11.863	146	533896	11.03	ug/L		98
98) 1,2,3-Trimethylbenzene	11.926	105	881087	10.77	ug/L	#	100
99) n-Butylbenzene	12.243	91	888318	10.82	ug/L		99
100) 1,2-Dichlorobenzene	12.234	146	499506	11.16	ug/L		98
101) 1,2-Dibromo-3-chloropr...	13.004	75	43983	9.22	ug/L	#	79
102) 1,3,5-Trichlorobenzene	13.235	180	382503	10.84	ug/L		99
103) 1,2,4-Trichlorobenzene	13.846	180	370453	10.93	ug/L		99
104) Hexachlorobutadiene	14.036	225	163327	10.22	ug/L		98
105) Naphthalene	14.082	128	1032829	11.56	ug/L		100
106) 1,2,3-Trichlorobenzene	14.326	180	349081	11.12	ug/L		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\1\data\G051324\
Data File : G24V13403.D
Acq On : 13 May 2024 4:43 am
Operator :
Sample : B0BS1/BS Inst : GCMSVOA7
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 13 05:03:26 2024
Quant Method : X:\1\methods\GS030124.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Fri Mar 01 13:48:51 2024
Response via : Initial Calibration





1 - FORM I
ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374129-BSD1	File ID:	G24V13404.D
Sampled:		Prepared:	05/13/24 04:00	Analyzed:	05/13/24 05:08
Solids:		Preparation:	SW-846 5035	Dilution:	
Initial/Final:	5 g / 10 mL				
Batch:	B374129	Sequence:	S104464	Calibration:	2400276
Instrument:	GCMSVOA7				
Column:	1				

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
67-64-1	Acetone	0.210	0.052	0.10	V-35
71-43-2	Benzene	0.0194	0.00063	0.0020	
74-97-5	Bromochloromethane	0.0205	0.00086	0.0020	
75-27-4	Bromodichloromethane	0.0194	0.00051	0.0020	
75-25-2	Bromoform	0.0152	0.00088	0.0020	
74-83-9	Bromomethane	0.0178	0.0018	0.010	
78-93-3	2-Butanone (MEK)	0.218	0.0084	0.040	
104-51-8	n-Butylbenzene	0.0210	0.00073	0.0020	
135-98-8	sec-Butylbenzene	0.0211	0.00080	0.0020	
98-06-6	tert-Butylbenzene	0.0210	0.00073	0.0020	
75-15-0	Carbon Disulfide	0.173	0.010	0.020	
56-23-5	Carbon Tetrachloride	0.0176	0.00058	0.0020	
108-90-7	Chlorobenzene	0.0172	0.00048	0.0020	
124-48-1	Chlorodibromomethane	0.0192	0.00066	0.0010	
75-00-3	Chloroethane	0.0194	0.0014	0.020	J
67-66-3	Chloroform	0.0198	0.00065	0.0040	
74-87-3	Chloromethane	0.0279	0.0012	0.010	L-02, V-20
110-82-7	Cyclohexane	0.0190	0.0041	0.010	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	0.0181	0.00081	0.0020	
106-93-4	1,2-Dibromoethane (EDB)	0.0220	0.00073	0.0010	
95-50-1	1,2-Dichlorobenzene	0.0221	0.00064	0.0020	
541-73-1	1,3-Dichlorobenzene	0.0219	0.00058	0.0020	
106-46-7	1,4-Dichlorobenzene	0.0219	0.00062	0.0020	
75-71-8	Dichlorodifluoromethane (Freon 12)	0.0140	0.00088	0.020	V-05, V-36, J
75-34-3	1,1-Dichloroethane	0.0198	0.00061	0.0020	
107-06-2	1,2-Dichloroethane	0.0211	0.00069	0.0020	
75-35-4	1,1-Dichloroethylene	0.0202	0.00096	0.0040	
156-59-2	cis-1,2-Dichloroethylene	0.0196	0.00069	0.0020	
156-60-5	trans-1,2-Dichloroethylene	0.0189	0.00060	0.0020	

1 - FORM I
ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374129-BSD1	File ID:	G24V13404.D
Sampled:		Prepared:	05/13/24 04:00	Analyzed:	05/13/24 05:08
Solids:		Preparation:	SW-846 5035	Dilution:	
Initial/Final:	5 g / 10 mL				
Batch:	B374129	Sequence:	S104464	Calibration:	2400276	Instrument:	GCMSVOA7
Column:	1				

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	0.0202	0.00062	0.0020	
10061-01-5	cis-1,3-Dichloropropene	0.0198	0.00076	0.0010	
10061-02-6	trans-1,3-Dichloropropene	0.0192	0.00077	0.0010	
100-41-4	Ethylbenzene	0.0193	0.00058	0.0020	
591-78-6	2-Hexanone (MBK)	0.242	0.0069	0.020	
98-82-8	Isopropylbenzene (Cumene)	0.0195	0.00077	0.0020	
99-87-6	p-Isopropyltoluene (p-Cymene)	0.0217	0.00065	0.0020	
79-20-9	Methyl Acetate	0.0227	0.0013	0.0020	
1634-04-4	Methyl tert-Butyl Ether (MTBE)	0.0202	0.00088	0.0040	
108-87-2	Methyl Cyclohexane	0.0198	0.00071	0.0020	
75-09-2	Methylene Chloride	0.0198	0.00094	0.020	J
108-10-1	4-Methyl-2-pentanone (MIBK)	0.247	0.0088	0.020	V-20
91-20-3	Naphthalene	0.0228	0.00099	0.0040	
103-65-1	n-Propylbenzene	0.0202	0.00066	0.0020	
100-42-5	Styrene	0.0193	0.00064	0.0020	
79-34-5	1,1,2,2-Tetrachloroethane	0.0193	0.00077	0.0010	
127-18-4	Tetrachloroethylene	0.0214	0.00087	0.0020	
108-88-3	Toluene	0.0208	0.00059	0.0020	
87-61-6	1,2,3-Trichlorobenzene	0.0219	0.00066	0.0020	
120-82-1	1,2,4-Trichlorobenzene	0.0214	0.00066	0.0020	
71-55-6	1,1,1-Trichloroethane	0.0189	0.00059	0.0020	
79-00-5	1,1,2-Trichloroethane	0.0215	0.00052	0.0020	
79-01-6	Trichloroethylene	0.0201	0.00075	0.0020	
75-69-4	Trichlorofluoromethane (Freon 11)	0.0203	0.0012	0.010	
96-18-4	1,2,3-Trichloropropane	0.0208	0.00081	0.0020	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1	0.0202	0.0010	0.010	
95-63-6	1,2,4-Trimethylbenzene	0.0208	0.00096	0.0020	
108-67-8	1,3,5-Trimethylbenzene	0.0189	0.00080	0.0020	
75-01-4	Vinyl Chloride	0.0185	0.00078	0.010	

1 - FORM I
ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374129-BSD1	File ID:	G24V13404.D
Sampled:		Prepared:	05/13/24 04:00	Analyzed:	05/13/24 05:08
Solids:		Preparation:	SW-846 5035	Dilution:	
Initial/Final:	5 g / 10 mL				
Batch:	B374129	Sequence:	S104464	Calibration:	2400276
Instrument:	GCMSVOA7				
Column:	1				

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
179601-23-1	m+p Xylene	0.0399	0.0014	0.0040	
95-47-6	o-Xylene	0.0187	0.00068	0.0020	

Quantitation Report (QT Reviewed)

Data Path : X:\1\data\G051324\
Data File : G24V13404.D
Acq On : 13 May 2024 5:08 am
Operator :
Sample : B0BSD1/BS Inst : GCMSVOA7
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 13 05:28:05 2024
Quant Method : D:\msdchem\1\methods\GS030124.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Fri Mar 01 13:48:51 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.579	168	1675488	30.00	ug/L		0.00
49) 1,4-Difluorobenzene - ...	6.420	114	2823007	30.00	ug/L		0.00
72) Chlorobenzene-d5 ISTD	9.488	82	1120381	30.00	ug/L		#-0.01
91) 1,4-Dichlorobenzene-d4...	11.840	152	1406685	30.00	ug/L		-0.01
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4	5.866	65	624530	23.81	ug/L		0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 95.24%				
50) Toluene SS	8.016	98	2632178	23.59	ug/L		0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 94.36%				
73) 4-Bromofluorobenzene SS	10.681	95	934073	21.06	ug/L		0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 84.24%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.242	85	117626	7.02	ug/L		98
4) Difluorochloromethane	1.262	51	252051	9.09	ug/L		90
5) Chloromethane	1.378	50	590141m	13.96	ug/L		
6) Vinyl chloride	1.475	62	323147	9.23	ug/L		88
7) Bromomethane	1.728	94	83718	8.89	ug/L		92
8) Chloroethane	1.819	64	176887	9.71	ug/L		95
10) Fluorodichloromethane	1.997	67	594306	10.38	ug/L		97
11) Trichlorofluoromethane	2.053	101	423930	10.15	ug/L		96
12) Diethyl ether	2.342	59	291940	10.28	ug/L		89
14) Acetone	2.605	43	1061421	104.80	ug/L		86
15) 1,1-Dichloroethene	2.544	61	420193	10.12	ug/L		96
16) 1,1,2-TRICL-1,2,2-TRIF...	2.560	101	269772	10.11	ug/L		93
17) Iodomethane	2.686	142	2551318	85.58	ug/L		98
19) Methyl acetate	2.982	43	268643	11.36	ug/L		86
20) t-Butyl alcohol	3.272	59	316638	103.43	ug/L		73
21) Acrylonitrile	3.372	53	90151	10.15	ug/L		98
22) Methylene chloride	3.072	49	272316	9.90	ug/L		81
23) Carbon disulfide	2.767	76	2531400	86.27	ug/L	#	91
24) Methyl tert-butyl ethe...	3.458	73	534180	10.10	ug/L		91
25) TRANS 1,2-DICHLOROETHENE	3.420	61	260796	9.43	ug/L		98
26) 1,1-Dichloroethane	4.010	63	339406	9.89	ug/L		98
28) Vinyl acetate	4.134	43	6079121	113.56	ug/L		88
30) Di isopropyl ether	4.200	45	807523	10.05	ug/L		85
31) 2-Butanone (MEK)	4.889	43	1317604	108.99	ug/L		87
33) t-Butyl ethyl ether	4.714	59	625863	9.95	ug/L		97
34) cis-1,2-Dichloroethene	4.839	61	321750	9.81	ug/L		85
35) 2,2-Dichloropropane	4.834	77	252389	8.88	ug/L	#	100
36) Ethyl acetate	5.013	43	234785	10.99	ug/L		100
37) Bromochloromethane	5.143	49	196788	10.27	ug/L		88
38) Tetrahydrofuran	5.239	42	101742	11.32	ug/L		81
39) Chloroform	5.273	83	353667	9.88	ug/L	#	49
42) 1,1,1-Trichloroethane	5.493	97	277233	9.46	ug/L		99
43) Cyclohexane	5.565	56	390263	9.49	ug/L	#	24
44) Carbon tetrachloride	5.698	117	172495	8.82	ug/L	#	1
45) 1,1-Dichloropropene	5.698	75	205196	9.18	ug/L		94
46) Benzene	5.942	78	799770	9.71	ug/L		95
47) tert-Amyl Alcohol (TAA)	6.034	59	239363	106.07	ug/L	#	58
48) T-AMYL METHYL ETHER	6.130	73	526907	9.92	ug/L		84
51) 1,2-Dichloroethane	5.957	62	256314	10.53	ug/L		84
53) Trichloroethene	6.701	95	217685	10.06	ug/L		98
54) Methylcyclohexane	6.920	83	350050	9.89	ug/L	#	81
55) 1,2-Dichloropropane	6.934	63	228294	10.12	ug/L	#	61
56) tert-Amyl Ethyl Ether ...	7.041	59	421247	10.26	ug/L	#	100

Data Path : X:\1\data\G051324\
Data File : G24V13404.D
Acq On : 13 May 2024 5:08 am
Operator :
Sample : B0BSD1/BS Inst : GCMSVOA7
Misc :
ALS Vial : 4 Sample Multiplier: 1

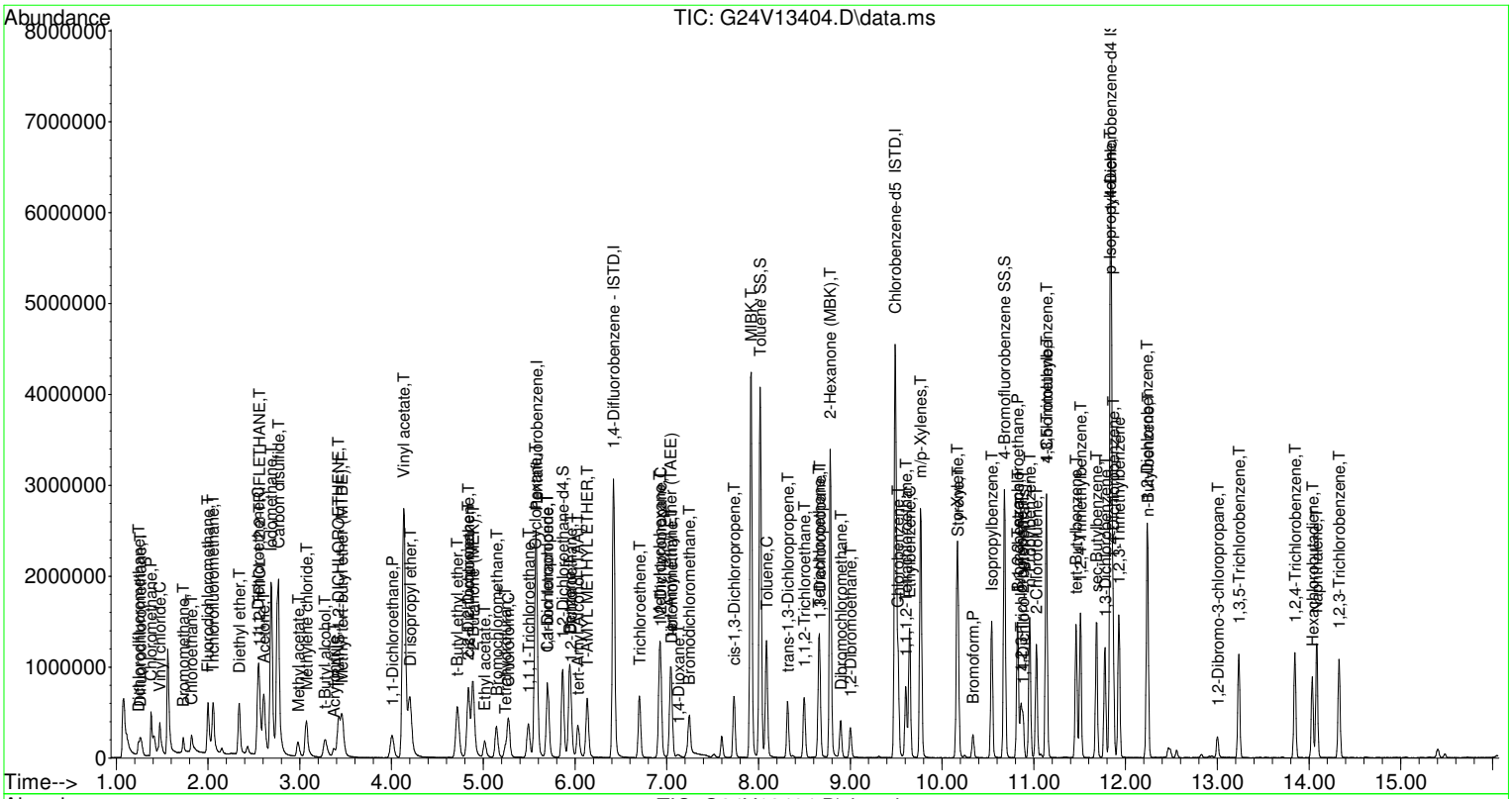
Quant Time: May 13 05:28:05 2024
Quant Method : D:\msdchem\1\methods\GS030124.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Fri Mar 01 13:48:51 2024
Response via : Initial Calibration

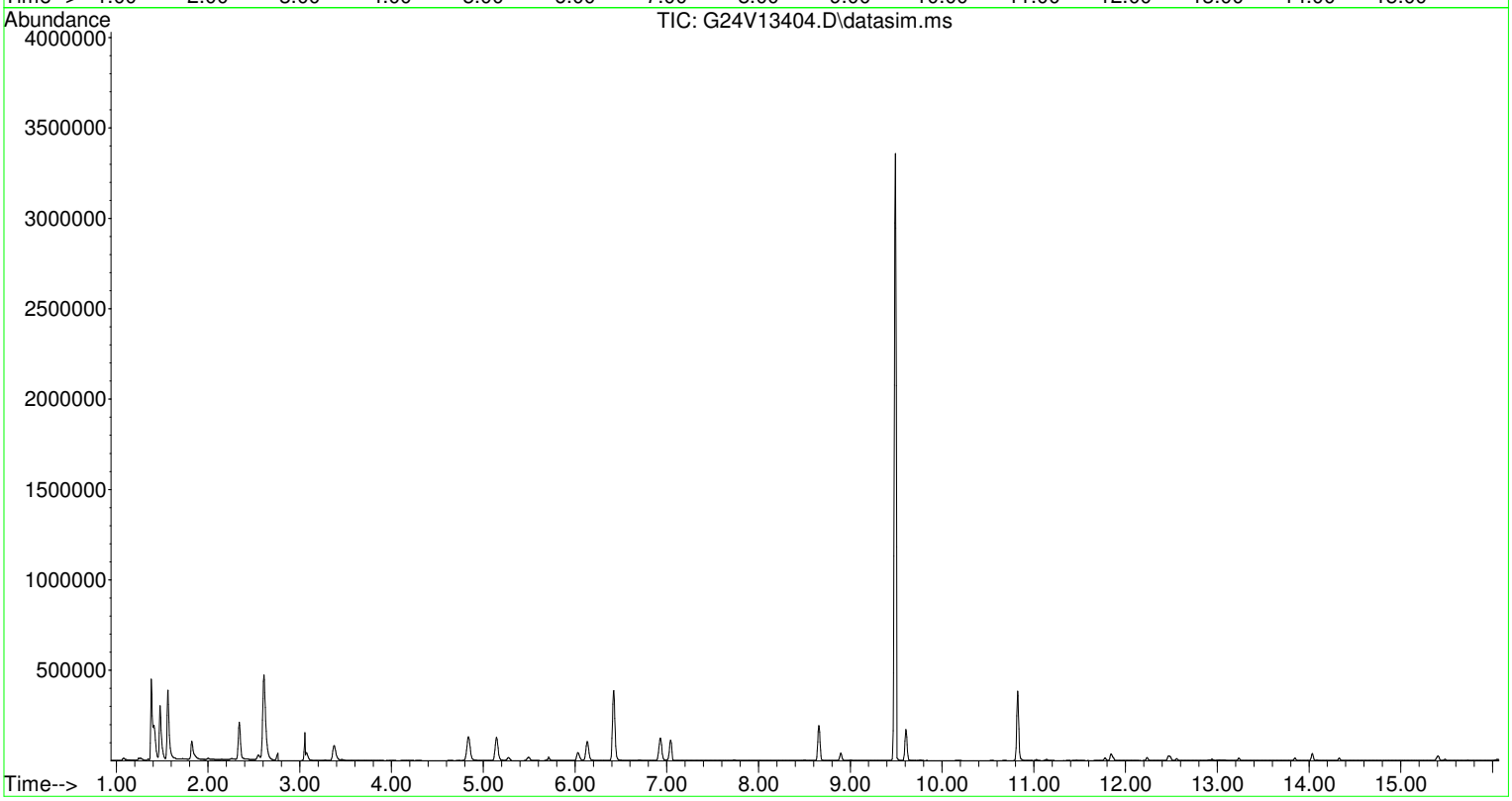
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
57) Dibromomethane	7.051	93	103441	10.38	ug/L		98
58) 1,4-Dioxane	7.126	88	31437	122.52	ug/L		98
59) Bromodichloromethane	7.246	83	251209	9.72	ug/L		99
61) MIBK	7.919	43	2974566	123.54	ug/L		85
62) cis-1,3-Dichloropropene	7.730	75	344883	9.92	ug/L		96
63) Toluene	8.088	91	909082	10.40	ug/L		100
64) trans-1,3-Dichloropropene	8.319	75	282428	9.62	ug/L		91
66) 1,1,2-Trichloroethane	8.498	97	206946	10.74	ug/L		93
67) 2-Hexanone (MBK)	8.782	43	2274734	120.91	ug/L		80
68) Tetrachloroethene	8.658	166	236794	10.68	ug/L		96
69) 1,3-Dichloropropane	8.667	76	336768	10.16	ug/L		96
70) Dibromochloromethane	8.896	129	216769	9.62	ug/L		94
71) 1,2-Dibromoethane	9.001	107	226336	10.98	ug/L		96
74) Chlorobenzene	9.517	112	565477	8.59	ug/L		97
75) 1,1,1,2-Tetrachloroethane	9.607	131	210938	9.65	ug/L		99
76) Ethylbenzene	9.648	91	984569	9.65	ug/L		97
77) m/p-Xylenes	9.766	91	1520964	19.94	ug/L		94
78) o-Xylene	10.164	91	760160	9.34	ug/L		92
79) Styrene	10.174	104	679204	9.63	ug/L		97
80) Bromoform	10.337	173	114045	7.58	ug/L		99
81) Isopropylbenzene	10.540	105	963763	9.75	ug/L		96
83) 1,1,2,2-Tetrachloroethane	10.821	83	289628	9.67	ug/L		99
84) 1,4-Dichloro-2-butene(...	10.884	53	84675	9.48	ug/L		84
85) Bromobenzene	10.826	77	372223	8.67	ug/L		97
86) 1,2,3-Trichloropropane	10.862	75	302125	10.38	ug/L		86
87) n-Propylbenzene	10.957	91	1151458	10.10	ug/L		99
88) 2-Chlorotoluene	11.029	91	635011	9.32	ug/L		93
89) 1,3,5-Trimethylbenzene	11.138	105	812897	9.44	ug/L		95
90) 4-Chlorotoluene	11.138	91	783802	9.21	ug/L		100
92) tert-Butylbenzene	11.460	119	717970	10.52	ug/L		94
93) 1,2,4-Trimethylbenzene	11.509	105	831589	10.39	ug/L		94
94) sec-Butylbenzene	11.681	105	1020756	10.56	ug/L		99
95) 1,3-Dichlorobenzene	11.777	146	513158	10.93	ug/L		98
96) p-Isopropyltoluene	11.831	119	960897	10.86	ug/L		97
97) 1,4-Dichlorobenzene	11.863	146	530383	10.97	ug/L		99
98) 1,2,3-Trimethylbenzene	11.926	105	874652	10.70	ug/L	#	100
99) n-Butylbenzene	12.243	91	861566	10.51	ug/L		99
100) 1,2-Dichlorobenzene	12.234	146	494012	11.05	ug/L		98
101) 1,2-Dibromo-3-chloropr...	13.004	75	43027	9.03	ug/L	#	76
102) 1,3,5-Trichlorobenzene	13.235	180	371830	10.56	ug/L		98
103) 1,2,4-Trichlorobenzene	13.846	180	362175	10.70	ug/L		99
104) Hexachlorobutadiene	14.036	225	156061	9.78	ug/L		96
105) Naphthalene	14.081	128	1017699	11.40	ug/L		100
106) 1,2,3-Trichlorobenzene	14.326	180	343901	10.97	ug/L		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\1\data\G051324\
Data File : G24V13404.D
Acq On : 13 May 2024 5:08 am
Operator :
Sample : B0BSD1/BS Inst : GCMSVOA7
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 13 05:28:05 2024
Quant Method : D:\msdchem\1\methods\GS030124.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Fri Mar 01 13:48:51 2024
Response via : Initial Calibration

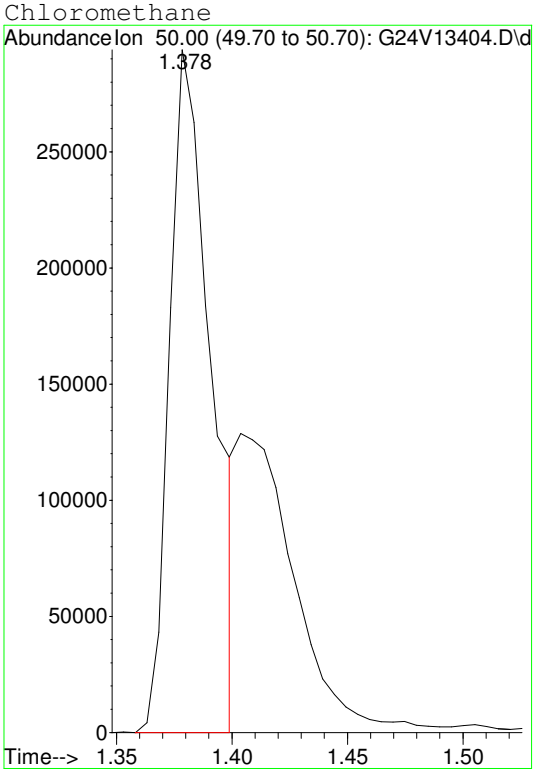




Data Path : X:\1\data\G051324\
Data File : G24V13404.D
Acq On : 13 May 2024 5:08 am
Operator :
Sample : B0BSD1/BS
Misc :

Quant Time : Mon May 13 05:28:05 2024
Quant Method : D:\msdchem\1\methods\GS030124.M
QLast Update : Fri Mar 01 13:48:51 2024

Original Integration
Chloromethane



Original Int. Results

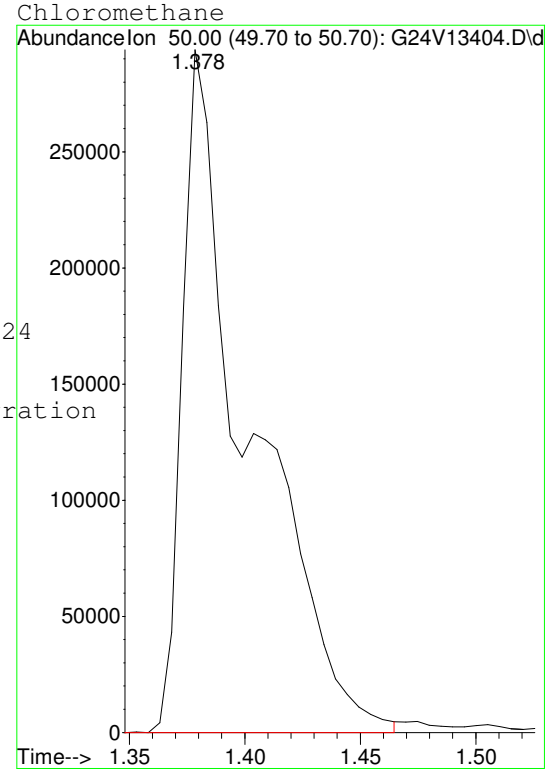
RT : 1.38
Area : 370037
Amount: 8.75395

Manual Int. Results

Mon May 13 05:28:05 2024

MIuser: MFF
Reason: Incorret Integration
RT : 1.38
Area : 590141
Amount: 13.9609

Manual Integration
Chloromethane



1 - FORM I
ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374129-MS1	File ID:	G24V13411.D
Sampled:		Prepared:	05/13/24 04:00	Analyzed:	05/13/24 08:09
Solids:		Preparation:	SW-846 5035	Dilution:	
Initial/Final:	5.78 g / 10 mL				
Batch:	B374129	Sequence:	S104464	Calibration:	2400276	Instrument:	GCMSVOA7
Column:	1				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
67-64-1	Acetone	0.247	0.062	0.12	V-35
71-43-2	Benzene	0.0257	0.00075	0.0024	
74-97-5	Bromochloromethane	0.0268	0.0010	0.0024	
75-27-4	Bromodichloromethane	0.0228	0.00061	0.0024	
75-25-2	Bromoform	0.0183	0.0010	0.0024	
74-83-9	Bromomethane	0.00608	0.0021	0.012	MS-07A, J
78-93-3	2-Butanone (MEK)	0.249	0.010	0.048	
104-51-8	n-Butylbenzene	0.0277	0.00087	0.0024	
135-98-8	sec-Butylbenzene	0.0309	0.00096	0.0024	
98-06-6	tert-Butylbenzene	0.0287	0.00087	0.0024	
75-15-0	Carbon Disulfide	0.0413	0.012	0.024	MS-15
56-23-5	Carbon Tetrachloride	0.0247	0.00069	0.0024	
108-90-7	Chlorobenzene	0.0214	0.00058	0.0024	
124-48-1	Chlorodibromomethane	0.0225	0.00079	0.0012	
75-00-3	Chloroethane	0.0316	0.0017	0.024	MS-24
67-66-3	Chloroform	0.0259	0.00078	0.0048	
74-87-3	Chloromethane	0.0358	0.0014	0.012	-02, MS-15, V-2(
110-82-7	Cyclohexane	0.0270	0.0049	0.012	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	0.0206	0.00097	0.0024	
106-93-4	1,2-Dibromoethane (EDB)	0.0260	0.00087	0.0012	
95-50-1	1,2-Dichlorobenzene	0.0291	0.00076	0.0024	
541-73-1	1,3-Dichlorobenzene	0.0289	0.00069	0.0024	
106-46-7	1,4-Dichlorobenzene	0.0286	0.00074	0.0024	
75-71-8	Dichlorodifluoromethane (Freon 12)	0.0356	0.0010	0.024	IS-15, V-05, V-3(
75-34-3	1,1-Dichloroethane	0.0279	0.00073	0.0024	
107-06-2	1,2-Dichloroethane	0.0253	0.00082	0.0024	
75-35-4	1,1-Dichloroethylene	0.0254	0.0011	0.0048	
156-59-2	cis-1,2-Dichloroethylene	0.0266	0.00083	0.0024	
156-60-5	trans-1,2-Dichloroethylene	0.0270	0.00071	0.0024	

1 - FORM I
ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374129-MS1	File ID:	G24V13411.D
Sampled:		Prepared:	05/13/24 04:00	Analyzed:	05/13/24 08:09
Solids:		Preparation:	SW-846 5035	Dilution:	
Initial/Final:	5.78 g / 10 mL				
Batch:	B374129	Sequence:	S104464	Calibration:	2400276	Instrument:	GCMSVOA7
Column:	1				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	0.0245	0.00073	0.0024	
10061-01-5	cis-1,3-Dichloropropene	0.0223	0.00091	0.0012	
10061-02-6	trans-1,3-Dichloropropene	0.0233	0.00092	0.0012	
100-41-4	Ethylbenzene	0.0242	0.00069	0.0024	
591-78-6	2-Hexanone (MBK)	0.251	0.0082	0.024	
98-82-8	Isopropylbenzene (Cumene)	0.0256	0.00092	0.0024	
99-87-6	p-Isopropyltoluene (p-Cymene)	0.0306	0.00077	0.0024	
79-20-9	Methyl Acetate	0.0372	0.0016	0.0024	MS-15
1634-04-4	Methyl tert-Butyl Ether (MTBE)	0.0246	0.0010	0.0048	
108-87-2	Methyl Cyclohexane	0.0262	0.00085	0.0024	
75-09-2	Methylene Chloride	0.0264	0.0011	0.024	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.279	0.011	0.024	V-20
91-20-3	Naphthalene	0.0262	0.0012	0.0048	
103-65-1	n-Propylbenzene	0.0266	0.00079	0.0024	
100-42-5	Styrene	0.0242	0.00076	0.0024	
79-34-5	1,1,2,2-Tetrachloroethane	0.0241	0.00092	0.0012	
127-18-4	Tetrachloroethylene	0.0276	0.0010	0.0024	
108-88-3	Toluene	0.0252	0.00071	0.0024	
87-61-6	1,2,3-Trichlorobenzene	0.0269	0.00079	0.0024	
120-82-1	1,2,4-Trichlorobenzene	0.0268	0.00078	0.0024	
71-55-6	1,1,1-Trichloroethane	0.0259	0.00071	0.0024	
79-00-5	1,1,2-Trichloroethane	0.0271	0.00061	0.0024	
79-01-6	Trichloroethylene	0.0255	0.00090	0.0024	
75-69-4	Trichlorofluoromethane (Freon 11)	0.0324	0.0014	0.012	MS-24
96-18-4	1,2,3-Trichloropropane	0.0235	0.00097	0.0024	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1	0.0278	0.0012	0.012	
95-63-6	1,2,4-Trimethylbenzene	0.0261	0.0011	0.0024	
108-67-8	1,3,5-Trimethylbenzene	0.0241	0.00095	0.0024	
75-01-4	Vinyl Chloride	0.0300	0.00093	0.012	

1 - FORM I
ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374129-MS1	File ID:	G24V13411.D
Sampled:		Prepared:	05/13/24 04:00	Analyzed:	05/13/24 08:09
Solids:		Preparation:	SW-846 5035	Dilution:	
Initial/Final:	5.78 g / 10 mL				
Batch:	B374129	Sequence:	S104464	Calibration:	2400276
Instrument:	GCMSVOA7				
Column:	1				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
179601-23-1	m+p Xylene	0.0498	0.0017	0.0048	
95-47-6	o-Xylene	0.0243	0.00081	0.0024	

Quantitation Report (QT Reviewed)

Data Path : X:\1\data\G051324\
Data File : G24V13411.D
Acq On : 13 May 2024 8:09 am
Operator :
Sample : 24E1437-06 @ MS Inst : GCMSVOA7
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 13 08:28:34 2024
Quant Method : X:\1\methods\GS030124.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Fri Mar 01 13:48:51 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	5.574	168	1476987	30.00 ug/L	0.00
49) 1,4-Difluorobenzene - ...	6.420	114	2704675	30.00 ug/L	0.00
72) Chlorobenzene-d5 ISTD	9.488	82	1085897	30.00 ug/L	# 0.00
91) 1,4-Dichlorobenzene-d4...	11.840	152	1335687	30.00 ug/L	-0.01
System Monitoring Compounds					
2) 1,2-Dichloroethane-d4	5.866	65	605454	26.18 ug/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 104.72%		
50) Toluene SS	8.016	98	2518654	23.56 ug/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 94.24%		
73) 4-Bromofluorobenzene SS	10.681	95	884955	20.58 ug/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 82.32%		
Target Compounds					Qvalue
3) Dichlorodifluoromethane	1.242	85	239372	14.92 ug/L	100
4) Difluorochloromethane	1.262	51	360132	14.74 ug/L	89
5) Chloromethane	1.379	50	558526m	14.99 ug/L	
6) Vinyl chloride	1.475	62	388556	12.59 ug/L	89
7) Bromomethane	1.728	94	21195	2.55 ug/L	94
8) Chloroethane	1.820	64	212644	13.24 ug/L	94
10) Fluorodichloromethane	1.997	67	628423	12.45 ug/L	98
11) Trichlorofluoromethane	2.053	101	499406	13.57 ug/L	99
12) Diethyl ether	2.337	59	295809	11.82 ug/L	87
14) Acetone	2.605	43	925669	103.68 ug/L	87
15) 1,1-Dichloroethene	2.539	61	389434	10.64 ug/L	96
16) 1,1,2-TRICL-1,2,2-TRIF...	2.560	101	274356	11.66 ug/L	94
17) Iodomethane	2.686	142	242574	9.23 ug/L	98
19) Methyl acetate	2.982	43	324790	15.58 ug/L	85
20) t-Butyl alcohol	3.277	59	228630	84.72 ug/L	75
21) Acrylonitrile	3.372	53	76819	9.81 ug/L	98
22) Methylene chloride	3.073	49	268666	11.08 ug/L	83
23) Carbon disulfide	2.767	76	447918	17.32 ug/L #	93
24) Methyl tert-butyl ethe...	3.458	73	480751	10.31 ug/L	91
25) TRANS 1,2-DICHLOROETHENE	3.420	61	275751	11.31 ug/L	97
26) 1,1-Dichloroethane	4.005	63	354147	11.70 ug/L	97
28) Vinyl acetate	4.134	43	5232801	110.89 ug/L	88
30) Di isopropyl ether	4.196	45	835876	11.80 ug/L	84
31) 2-Butanone (MEK)	4.884	43	1111616	104.31 ug/L	88
33) t-Butyl ethyl ether	4.714	59	609491	10.99 ug/L	97
34) cis-1,2-Dichloroethene	4.839	61	322362	11.15 ug/L	85
35) 2,2-Dichloropropane	4.834	77	253628	10.12 ug/L #	100
36) Ethyl acetate	5.013	43	191594	10.17 ug/L	100
37) Bromochloromethane	5.143	49	189505	11.22 ug/L	86
38) Tetrahydrofuran	5.240	42	82984	10.48 ug/L	83
39) Chloroform	5.273	83	342993	10.87 ug/L #	48
42) 1,1,1-Trichloroethane	5.489	97	280773	10.87 ug/L	97
43) Cyclohexane	5.570	56	416458	11.31 ug/L #	26
44) Carbon tetrachloride	5.699	117	178378m	10.35 ug/L	
45) 1,1-Dichloropropene	5.699	75	208233	10.56 ug/L	96
46) Benzene	5.937	78	783388	10.79 ug/L	95
47) tert-Amyl Alcohol (TAA)	6.034	59	210237	105.68 ug/L #	59
48) T-AMYL METHYL ETHER	6.130	73	511960	10.93 ug/L	86
51) 1,2-Dichloroethane	5.957	62	247462	10.61 ug/L	85
53) Trichloroethene	6.701	95	221475	10.69 ug/L	98
54) Methylcyclohexane	6.920	83	373130	11.00 ug/L #	82
55) 1,2-Dichloropropane	6.930	63	221856	10.26 ug/L #	55
56) tert-Amyl Ethyl Ether ...	7.042	59	425851	10.82 ug/L #	100

Data Path : X:\1\data\G051324\
Data File : G24V13411.D
Acq On : 13 May 2024 8:09 am
Operator :
Sample : 24E1437-06 @ MS Inst : GCMSVOA7
Misc :
ALS Vial : 11 Sample Multiplier: 1

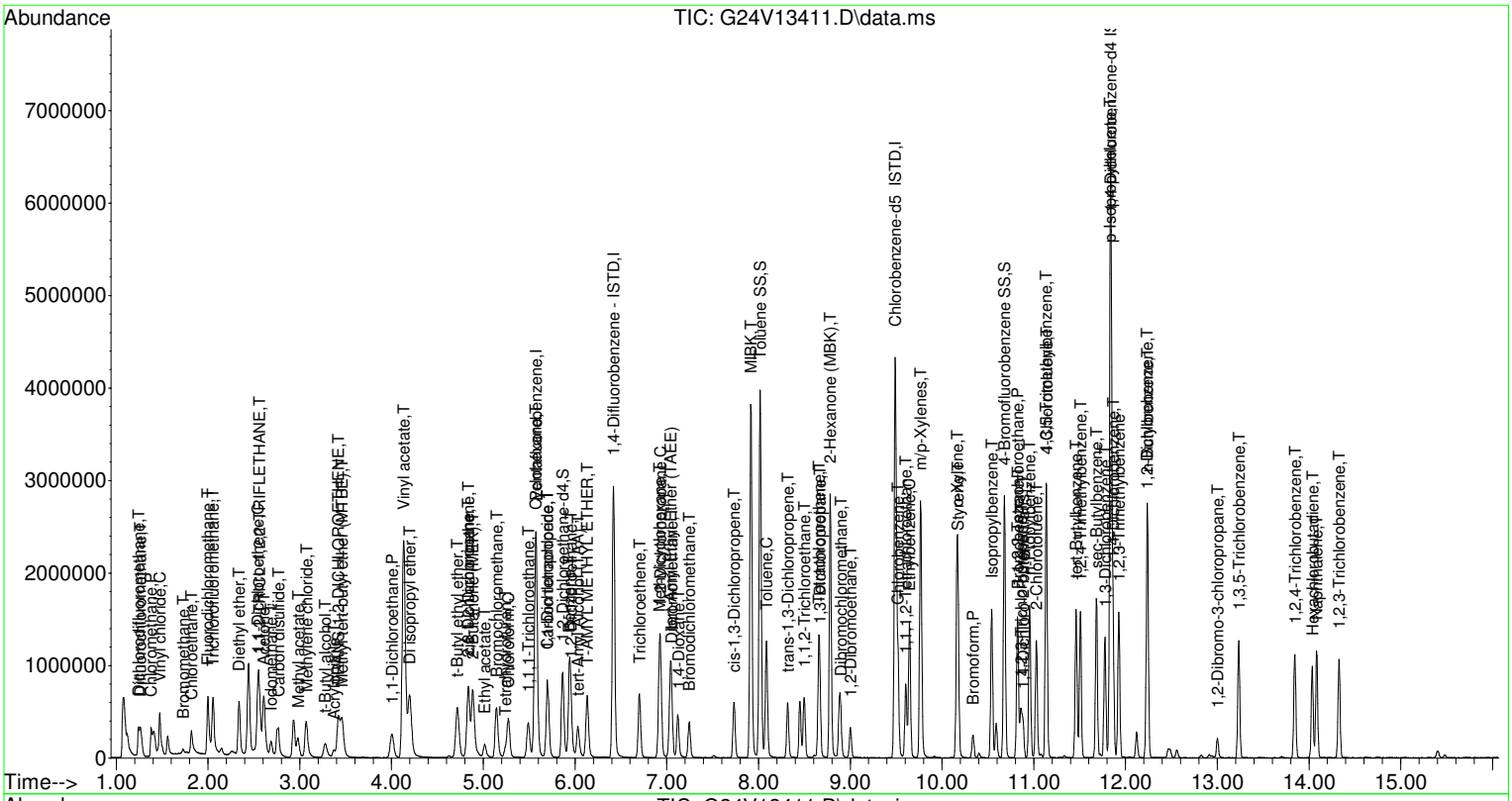
Quant Time: May 13 08:28:34 2024
Quant Method : X:\1\methods\GS030124.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Fri Mar 01 13:48:51 2024
Response via : Initial Calibration

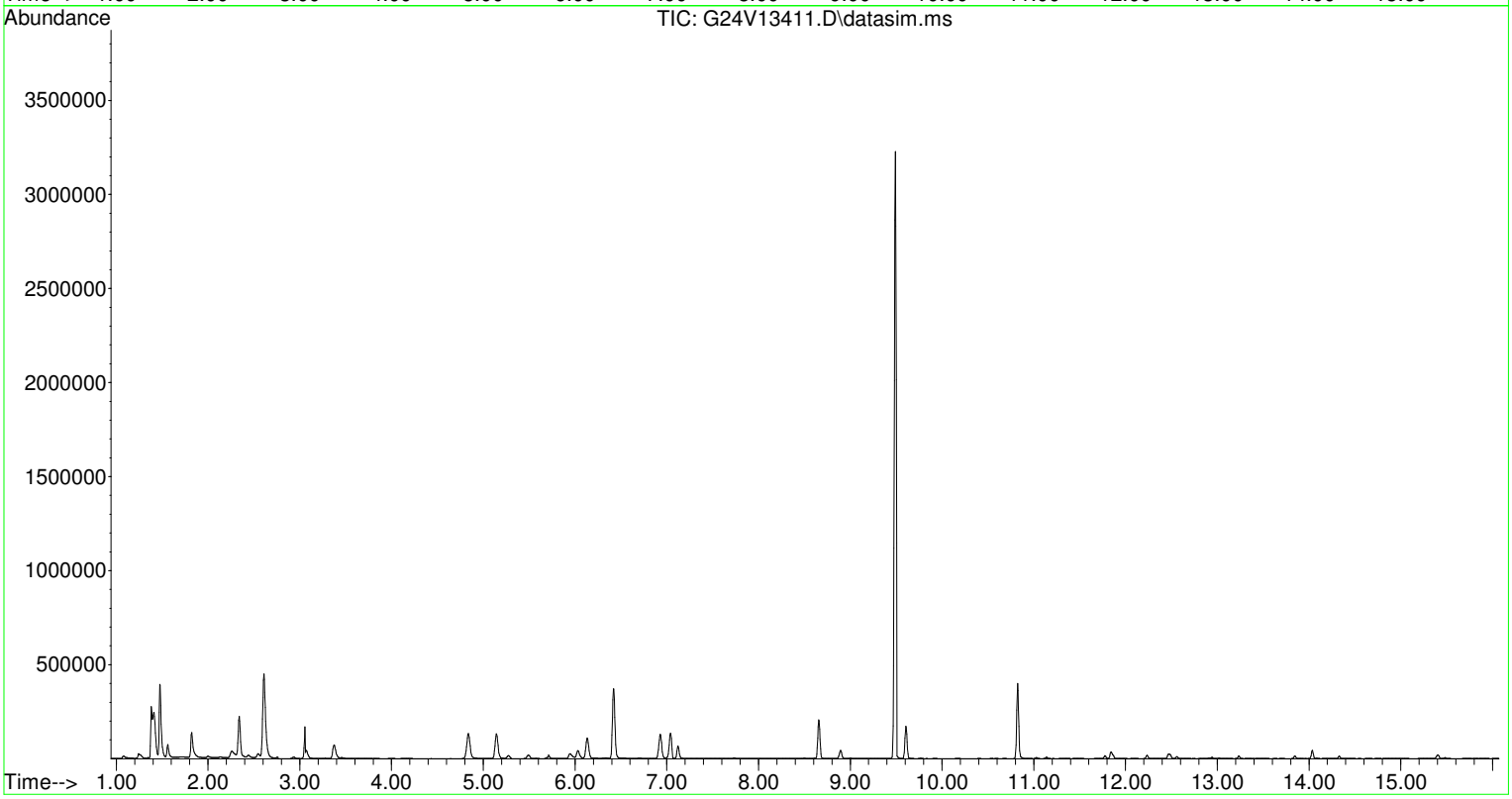
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
57) Dibromomethane	7.051	93	97424	10.20	ug/L		97
58) 1,4-Dioxane	7.126	88	26952	109.64	ug/L		93
59) Bromodichloromethane	7.246	83	236306	9.55	ug/L		98
61) MIBK	7.914	43	2696756	116.91	ug/L		85
62) cis-1,3-Dichloropropene	7.731	75	311414	9.35	ug/L		96
63) Toluene	8.088	91	885473	10.57	ug/L		100
64) trans-1,3-Dichloropropene	8.320	75	274221	9.75	ug/L		92
66) 1,1,2-Trichloroethane	8.499	97	209792	11.36	ug/L		92
67) 2-Hexanone (MBK)	8.782	43	1895583	105.17	ug/L		81
68) Tetrachloroethene	8.658	166	246078	11.58	ug/L		98
69) 1,3-Dichloropropane	8.668	76	329420	10.38	ug/L		93
70) Dibromochloromethane	8.896	129	203273	9.42	ug/L		92
71) 1,2-Dibromoethane	9.001	107	215421	10.91	ug/L		98
74) Chlorobenzene	9.517	112	572650	8.98	ug/L		97
75) 1,1,1,2-Tetrachloroethane	9.603	131	212798	10.05	ug/L		99
76) Ethylbenzene	9.644	91	1001848	10.14	ug/L		97
77) m/p-Xylenes	9.766	91	1543608	20.88	ug/L		93
78) o-Xylene	10.165	91	804466	10.20	ug/L		93
79) Styrene	10.174	104	692694	10.13	ug/L		98
80) Bromoform	10.337	173	111919	7.67	ug/L		99
81) Isopropylbenzene	10.540	105	1025777	10.71	ug/L		96
83) 1,1,2,2-Tetrachloroethane	10.821	83	293233	10.10	ug/L		99
84) 1,4-Dichloro-2-butene(...	10.885	53	74776	8.64	ug/L		80
85) Bromobenzene	10.826	77	376162	9.04	ug/L		99
86) 1,2,3-Trichloropropane	10.862	75	277626	9.84	ug/L		87
87) n-Propylbenzene	10.953	91	1232147	11.15	ug/L		98
88) 2-Chlorotoluene	11.030	91	661009	10.01	ug/L		93
89) 1,3,5-Trimethylbenzene	11.134	105	844747	10.12	ug/L		96
90) 4-Chlorotoluene	11.138	91	824010	9.99	ug/L		100
92) tert-Butylbenzene	11.460	119	779818	12.03	ug/L		94
93) 1,2,4-Trimethylbenzene	11.510	105	830397	10.92	ug/L		94
94) sec-Butylbenzene	11.682	105	1189106	12.95	ug/L		100
95) 1,3-Dichlorobenzene	11.777	146	541033	12.13	ug/L		97
96) p-Isopropyltoluene	11.831	119	1078182	12.84	ug/L		97
97) 1,4-Dichlorobenzene	11.863	146	549837	11.98	ug/L		99
98) 1,2,3-Trimethylbenzene	11.926	105	867291	11.18	ug/L	#	100
99) n-Butylbenzene	12.239	91	902030	11.59	ug/L		98
100) 1,2-Dichlorobenzene	12.234	146	516870	12.18	ug/L		98
101) 1,2-Dibromo-3-chloropr...	12.999	75	39056	8.63	ug/L	#	84
102) 1,3,5-Trichlorobenzene	13.235	180	400092	11.96	ug/L		100
103) 1,2,4-Trichlorobenzene	13.846	180	360454	11.22	ug/L		100
104) Hexachlorobutadiene	14.036	225	167900	11.08	ug/L		97
105) Naphthalene	14.082	128	930237	10.98	ug/L		100
106) 1,2,3-Trichlorobenzene	14.326	180	335497	11.27	ug/L		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\1\data\G051324\
Data File : G24V13411.D
Acq On : 13 May 2024 8:09 am
Operator :
Sample : 24E1437-06 @ MS Inst : GCMSVOA7
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 13 08:28:34 2024
Quant Method : X:\1\methods\GS030124.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Fri Mar 01 13:48:51 2024
Response via : Initial Calibration

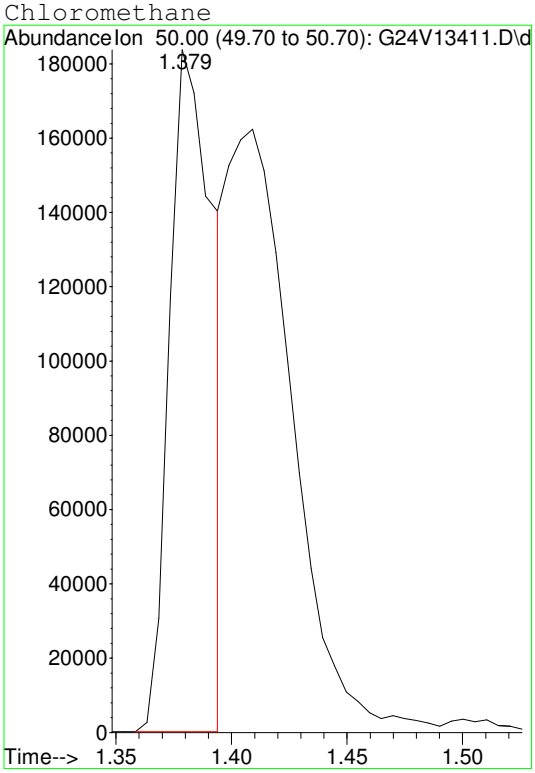




Data Path : X:\1\data\G051324\
Data File : G24V13411.D
Acq On : 13 May 2024 8:09 am
Operator :
Sample : 24E1437-06 @ MS
Misc :

Quant Time : Mon May 13 08:28:34 2024
Quant Method : X:\1\methods\GS030124.M
QLast Update : Fri Mar 01 13:48:51 2024

Original Integration
Chloromethane



Original Int. Results

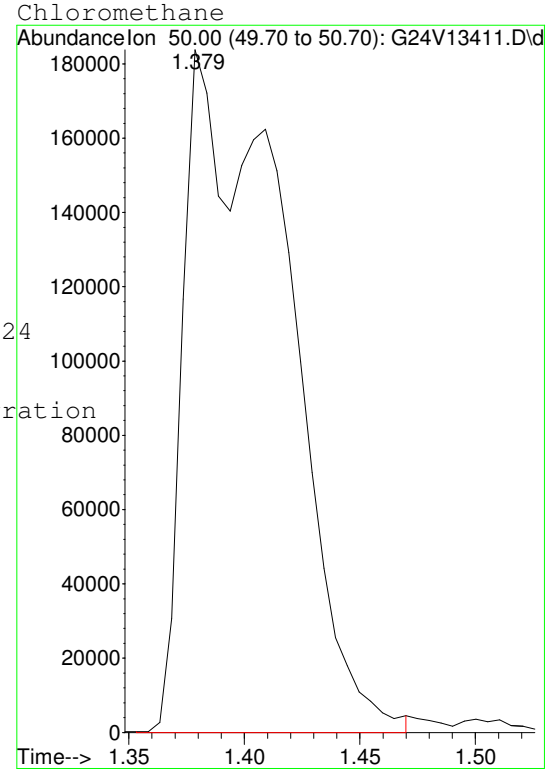
RT : 1.38
Area : 240068
Amount: 6.44255

Manual Int. Results

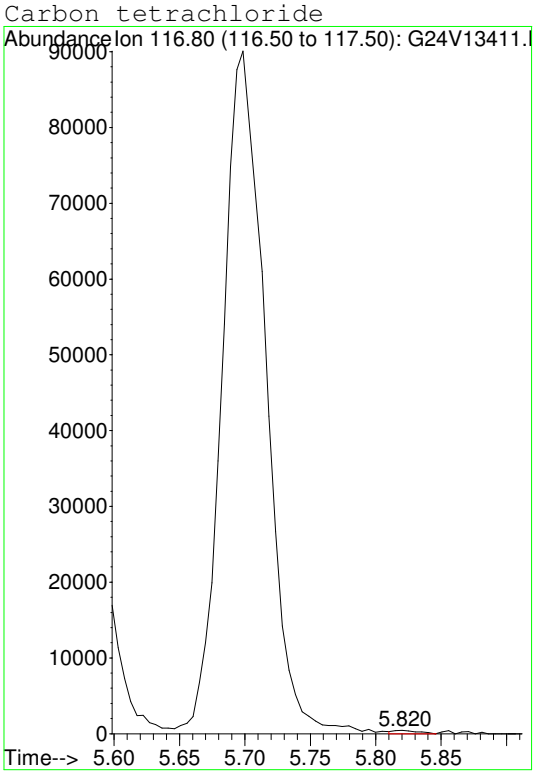
Mon May 13 08:28:01 2024

MIuser: MFF
Reason: Incorret Integration
RT : 1.38
Area : 558526
Amount: 14.9888

Manual Integration
Chloromethane



Original Integration
Carbon tetrachloride



Original Int. Results

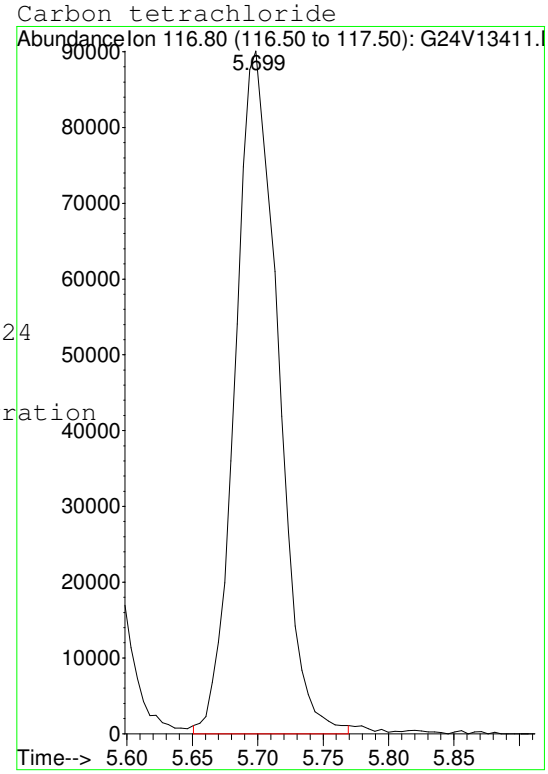
RT : 5.82
Area : 571
Amount: 0.0331195

Manual Int. Results

Mon May 13 08:28:33 2024

MIuser: MFF
Reason: Incorret Integration
RT : 5.70
Area : 178378
Amount: 10.3464

Manual Integration
Carbon tetrachloride



1 - FORM I
ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374129-MSD1	File ID:	G24V13412.D
Sampled:		Prepared:	05/13/24 04:00	Analyzed:	05/13/24 08:36
Solids:		Preparation:	SW-846 5035	Dilution:	
Initial/Final:	6.37 g / 10 mL				
Batch:	B374129	Sequence:	S104464	Calibration:	2400276	Instrument:	GCMSVOA7
Column:	1				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
67-64-1	Acetone	0.226	0.056	0.11	V-35
71-43-2	Benzene	0.0222	0.00068	0.0022	
74-97-5	Bromochloromethane	0.0232	0.00093	0.0022	
75-27-4	Bromodichloromethane	0.0207	0.00056	0.0022	
75-25-2	Bromoform	0.0166	0.00095	0.0022	
74-83-9	Bromomethane	0.00667	0.0019	0.011	MS-07A, J
78-93-3	2-Butanone (MEK)	0.229	0.0091	0.043	
104-51-8	n-Butylbenzene	0.0250	0.00079	0.0022	
135-98-8	sec-Butylbenzene	0.0274	0.00087	0.0022	
98-06-6	tert-Butylbenzene	0.0253	0.00079	0.0022	
75-15-0	Carbon Disulfide	0.0371	0.011	0.022	MS-15
56-23-5	Carbon Tetrachloride	0.0212	0.00063	0.0022	
108-90-7	Chlorobenzene	0.0185	0.00052	0.0022	
124-48-1	Chlorodibromomethane	0.0207	0.00071	0.0011	
75-00-3	Chloroethane	0.0258	0.0015	0.022	
67-66-3	Chloroform	0.0227	0.00071	0.0043	
74-87-3	Chloromethane	0.0308	0.0013	0.011	/-20, L-02, MS-1
110-82-7	Cyclohexane	0.0236	0.0044	0.011	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	0.0189	0.00088	0.0022	
106-93-4	1,2-Dibromoethane (EDB)	0.0238	0.00079	0.0011	
95-50-1	1,2-Dichlorobenzene	0.0259	0.00069	0.0022	
541-73-1	1,3-Dichlorobenzene	0.0252	0.00062	0.0022	
106-46-7	1,4-Dichlorobenzene	0.0253	0.00067	0.0022	
75-71-8	Dichlorodifluoromethane (Freon 12)	0.0301	0.00095	0.022	/-36, MS-15, V-0
75-34-3	1,1-Dichloroethane	0.0241	0.00066	0.0022	
107-06-2	1,2-Dichloroethane	0.0228	0.00074	0.0022	
75-35-4	1,1-Dichloroethylene	0.0215	0.0010	0.0043	
156-59-2	cis-1,2-Dichloroethylene	0.0234	0.00075	0.0022	
156-60-5	trans-1,2-Dichloroethylene	0.0233	0.00064	0.0022	

1 - FORM I
ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374129-MSD1	File ID:	G24V13412.D
Sampled:		Prepared:	05/13/24 04:00	Analyzed:	05/13/24 08:36
Solids:		Preparation:	SW-846 5035	Dilution:	
Initial/Final:	6.37 g / 10 mL				
Batch:	B374129	Sequence:	S104464	Calibration:	2400276	Instrument:	GCMSVOA7
Column:	1				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
78-87-5	1,2-Dichloropropane	0.0224	0.00067	0.0022	
10061-01-5	cis-1,3-Dichloropropene	0.0202	0.00082	0.0011	
10061-02-6	trans-1,3-Dichloropropene	0.0214	0.00083	0.0011	
100-41-4	Ethylbenzene	0.0215	0.00062	0.0022	
591-78-6	2-Hexanone (MBK)	0.236	0.0074	0.022	
98-82-8	Isopropylbenzene (Cumene)	0.0225	0.00084	0.0022	
99-87-6	p-Isopropyltoluene (p-Cymene)	0.0273	0.00070	0.0022	
79-20-9	Methyl Acetate	0.0336	0.0014	0.0022	MS-15
1634-04-4	Methyl tert-Butyl Ether (MTBE)	0.0220	0.00095	0.0043	
108-87-2	Methyl Cyclohexane	0.0236	0.00077	0.0022	
75-09-2	Methylene Chloride	0.0217	0.0010	0.022	
108-10-1	4-Methyl-2-pentanone (MIBK)	0.260	0.0095	0.022	V-20
91-20-3	Naphthalene	0.0234	0.0011	0.0043	
103-65-1	n-Propylbenzene	0.0237	0.00071	0.0022	
100-42-5	Styrene	0.0213	0.00069	0.0022	
79-34-5	1,1,2,2-Tetrachloroethane	0.0215	0.00083	0.0011	
127-18-4	Tetrachloroethylene	0.0246	0.00094	0.0022	
108-88-3	Toluene	0.0225	0.00064	0.0022	
87-61-6	1,2,3-Trichlorobenzene	0.0237	0.00072	0.0022	
120-82-1	1,2,4-Trichlorobenzene	0.0240	0.00071	0.0022	
71-55-6	1,1,1-Trichloroethane	0.0226	0.00064	0.0022	
79-00-5	1,1,2-Trichloroethane	0.0244	0.00056	0.0022	
79-01-6	Trichloroethylene	0.0227	0.00082	0.0022	
75-69-4	Trichlorofluoromethane (Freon 11)	0.0278	0.0013	0.011	
96-18-4	1,2,3-Trichloropropane	0.0213	0.00088	0.0022	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1	0.0239	0.0011	0.011	
95-63-6	1,2,4-Trimethylbenzene	0.0230	0.0010	0.0022	
108-67-8	1,3,5-Trimethylbenzene	0.0213	0.00087	0.0022	
75-01-4	Vinyl Chloride	0.0263	0.00084	0.011	

1 - FORM I
ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374129-MSD1	File ID:	G24V13412.D
Sampled:		Prepared:	05/13/24 04:00	Analyzed:	05/13/24 08:36
Solids:		Preparation:	SW-846 5035	Dilution:	
Initial/Final:	6.37 g / 10 mL				
Batch:	B374129	Sequence:	S104464	Calibration:	2400276
Instrument:	GCMSVOA7				
Column:	1				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
179601-23-1	m+p Xylene	0.0439	0.0016	0.0043	
95-47-6	o-Xylene	0.0214	0.00073	0.0022	

Data Path : X:\1\data\G051324\
Data File : G24V13412.D
Acq On : 13 May 2024 8:36 am
Operator :
Sample : 24E1437-06 @ MSD Inst : GCMSVOA7
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 13 08:56:23 2024
Quant Method : X:\1\methods\GS030124.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Fri Mar 01 13:48:51 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.574	168	1520273	30.00	ug/L		0.00
49) 1,4-Difluorobenzene - ...	6.415	114	2703475	30.00	ug/L		0.00
72) Chlorobenzene-d5 ISTD	9.488	82	1113663	30.00	ug/L	#	0.00
91) 1,4-Dichlorobenzene-d4...	11.840	152	1364108	30.00	ug/L		-0.01
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4	5.861	65	609097	25.59	ug/L		0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 102.36%				
50) Toluene SS	8.016	98	2551820	23.88	ug/L		0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 95.52%				
73) 4-Bromofluorobenzene SS	10.681	95	898608	20.38	ug/L		0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 81.52%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.242	85	228165	13.89	ug/L		100
4) Difluorochloromethane	1.262	51	351624	13.98	ug/L		89
5) Chloromethane	1.379	50	546222m	14.24	ug/L		
6) Vinyl chloride	1.470	62	386555	12.17	ug/L		88
7) Bromomethane	1.723	94	26309	3.08	ug/L		88
8) Chloroethane	1.820	64	197038	11.92	ug/L		94
10) Fluorodichloromethane	1.997	67	619588	11.93	ug/L		97
11) Trichlorofluoromethane	2.048	101	486345	12.84	ug/L		99
12) Diethyl ether	2.337	59	297871	11.56	ug/L		86
14) Acetone	2.605	43	961000	104.57	ug/L		89
15) 1,1-Dichloroethene	2.540	61	374638	9.95	ug/L		94
16) 1,1,2-TRICL-1,2,2-TRIF...	2.555	101	266821	11.02	ug/L		97
17) Iodomethane	2.681	142	228609	8.45	ug/L		98
19) Methyl acetate	2.972	43	333356	15.53	ug/L		88
20) t-Butyl alcohol	3.268	59	243874	87.80	ug/L		74
21) Acrylonitrile	3.368	53	78302	9.71	ug/L		97
22) Methylene chloride	3.063	49	249785	10.01	ug/L		82
23) Carbon disulfide	2.747	76	455678	17.12	ug/L	#	90
24) Methyl tert-butyl ethe...	3.453	73	488447	10.18	ug/L		92
25) TRANS 1,2-DICHLOROETHENE	3.415	61	269436	10.74	ug/L		97
26) 1,1-Dichloroethane	4.001	63	346292	11.12	ug/L		97
28) Vinyl acetate	4.129	43	5320304	109.53	ug/L		88
30) Di isopropyl ether	4.191	45	831262	11.40	ug/L		85
31) 2-Butanone (MEK)	4.884	43	1157984	105.56	ug/L		86
33) t-Butyl ethyl ether	4.715	59	601510	10.54	ug/L		96
34) cis-1,2-Dichloroethene	4.834	61	321053	10.79	ug/L		86
35) 2,2-Dichloropropane	4.829	77	253967	9.85	ug/L	#	100
36) Ethyl acetate	5.013	43	177886	9.17	ug/L		100
37) Bromochloromethane	5.139	49	185916	10.70	ug/L		88
38) Tetrahydrofuran	5.240	42	84517	10.37	ug/L		84
39) Chloroform	5.269	83	339910	10.47	ug/L	#	48
42) 1,1,1-Trichloroethane	5.489	97	277491	10.44	ug/L		98
43) Cyclohexane	5.565	56	410768	10.88	ug/L	#	26
44) Carbon tetrachloride	5.694	117	173331	9.77	ug/L	#	1
45) 1,1-Dichloropropene	5.699	75	211838	10.44	ug/L		95
46) Benzene	5.937	78	765519	10.25	ug/L		94
47) tert-Amyl Alcohol (TAA)	6.029	59	219349	107.12	ug/L	#	60
48) T-AMYL METHYL ETHER	6.131	73	509317	10.57	ug/L		86
51) 1,2-Dichloroethane	5.952	62	245185	10.51	ug/L		83
53) Trichloroethene	6.697	95	217173	10.48	ug/L		98
54) Methylcyclohexane	6.920	83	368922	10.88	ug/L	#	82
55) 1,2-Dichloropropane	6.930	63	223605	10.35	ug/L	#	57
56) tert-Amyl Ethyl Ether ...	7.037	59	425355	10.82	ug/L	#	100

Data Path : X:\1\data\G051324\
Data File : G24V13412.D
Acq On : 13 May 2024 8:36 am
Operator :
Sample : 24E1437-06 @ MSD Inst : GCMSVOA7
Misc :
ALS Vial : 12 Sample Multiplier: 1

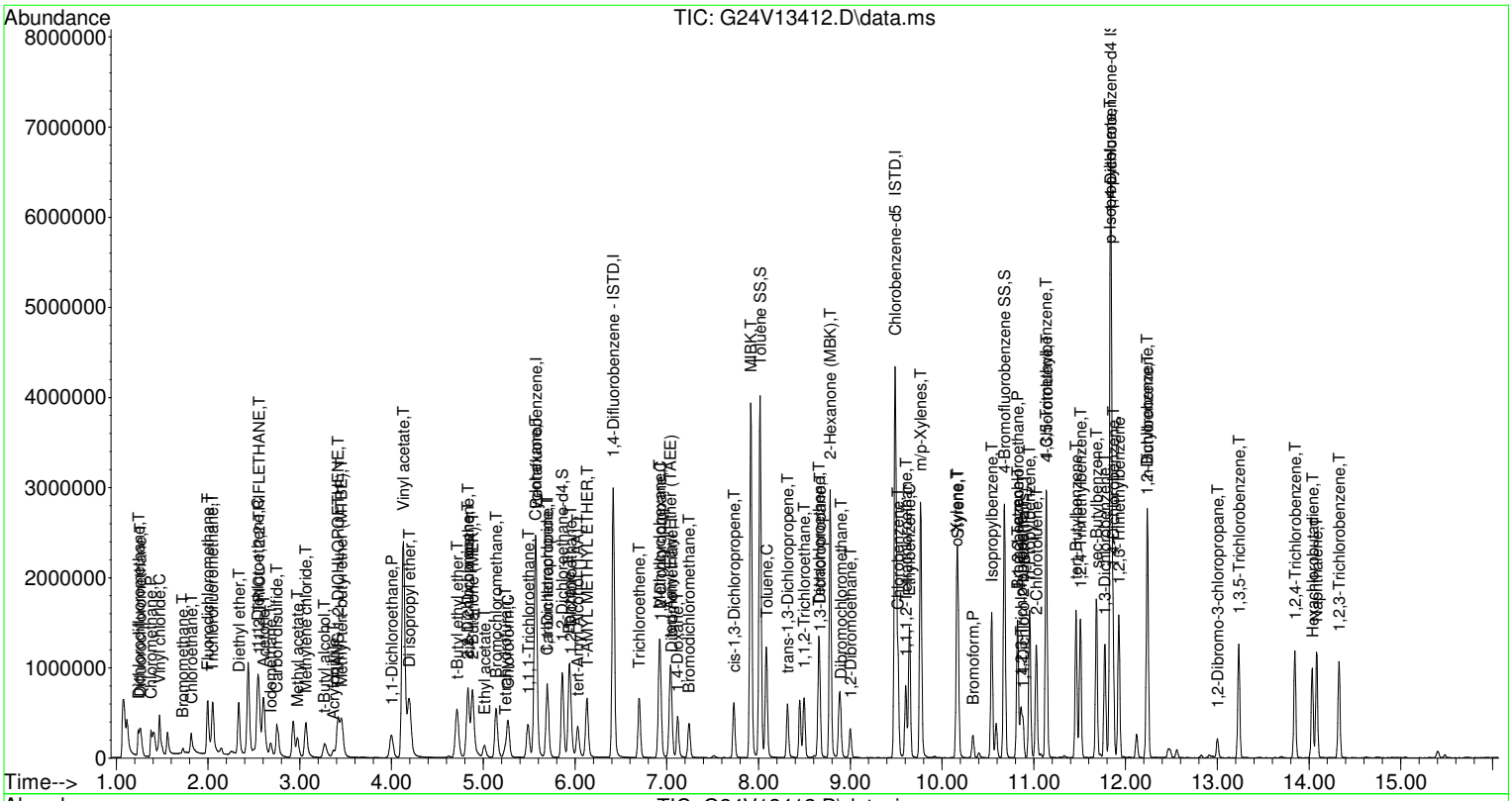
Quant Time: May 13 08:56:23 2024
Quant Method : X:\1\methods\GS030124.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Fri Mar 01 13:48:51 2024
Response via : Initial Calibration

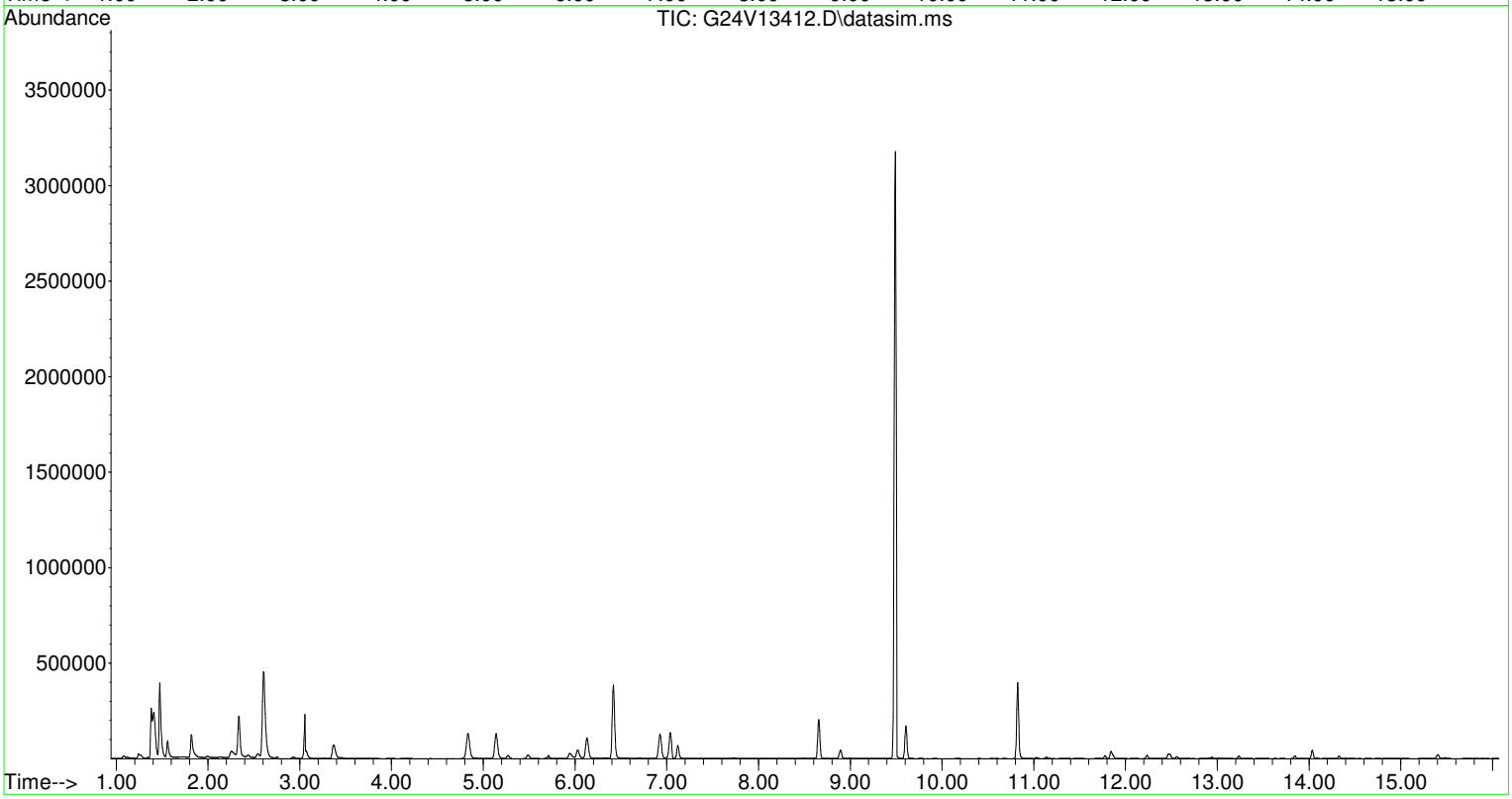
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
57) Dibromomethane	7.051	93	101506	10.63	ug/L		96
58) 1,4-Dioxane	7.112	88	27933	113.68	ug/L		98
59) Bromodichloromethane	7.241	83	236992	9.58	ug/L		98
61) MIBK	7.914	43	2771083	120.18	ug/L		85
62) cis-1,3-Dichloropropene	7.731	75	310257	9.32	ug/L		96
63) Toluene	8.088	91	871745	10.41	ug/L		100
64) trans-1,3-Dichloropropene	8.315	75	278140	9.89	ug/L		92
66) 1,1,2-Trichloroethane	8.494	97	208005	11.27	ug/L		94
67) 2-Hexanone (MBK)	8.782	43	1965470	109.09	ug/L		81
68) Tetrachloroethene	8.658	166	241200	11.36	ug/L		97
69) 1,3-Dichloropropane	8.668	76	326077	10.27	ug/L		93
70) Dibromochloromethane	8.896	129	206197	9.56	ug/L		92
71) 1,2-Dibromoethane	9.001	107	216930	10.99	ug/L		97
74) Chlorobenzene	9.517	112	558815	8.54	ug/L		98
75) 1,1,1,2-Tetrachloroethane	9.608	131	211299	9.73	ug/L		98
76) Ethylbenzene	9.644	91	1006285	9.93	ug/L		98
77) m/p-Xylenes	9.766	91	1538796	20.29	ug/L		93
78) o-Xylene	10.160	91	799423	9.88	ug/L		93
79) Styrene	10.174	104	691566	9.86	ug/L		97
80) Bromoform	10.337	173	114918	7.68	ug/L		98
81) Isopropylbenzene	10.541	105	1019487	10.38	ug/L		95
83) 1,1,2,2-Tetrachloroethane	10.821	83	296361	9.95	ug/L		98
84) 1,4-Dichloro-2-butene(...	10.885	53	75467	8.50	ug/L		83
85) Bromobenzene	10.821	77	372808	8.74	ug/L		99
86) 1,2,3-Trichloropropane	10.862	75	285243	9.86	ug/L		87
87) n-Propylbenzene	10.953	91	1238766	10.93	ug/L		98
88) 2-Chlorotoluene	11.030	91	659547	9.74	ug/L		93
89) 1,3,5-Trimethylbenzene	11.134	105	840327	9.82	ug/L		96
90) 4-Chlorotoluene	11.138	91	822540	9.73	ug/L		99
92) tert-Butylbenzene	11.460	119	772479	11.67	ug/L		95
93) 1,2,4-Trimethylbenzene	11.510	105	825511	10.63	ug/L		94
94) sec-Butylbenzene	11.682	105	1187851	12.67	ug/L		99
95) 1,3-Dichlorobenzene	11.772	146	531178	11.66	ug/L		98
96) p-Isopropyltoluene	11.831	119	1081694	12.61	ug/L		97
97) 1,4-Dichlorobenzene	11.863	146	548284	11.70	ug/L		99
98) 1,2,3-Trimethylbenzene	11.926	105	867102	10.94	ug/L	#	100
99) n-Butylbenzene	12.239	91	916764	11.53	ug/L		99
100) 1,2-Dichlorobenzene	12.234	146	519216	11.98	ug/L		97
101) 1,2-Dibromo-3-chloropr...	12.999	75	40299	8.72	ug/L	#	84
102) 1,3,5-Trichlorobenzene	13.235	180	399138	11.68	ug/L		100
103) 1,2,4-Trichlorobenzene	13.846	180	364202	11.10	ug/L		99
104) Hexachlorobutadiene	14.036	225	175380	11.34	ug/L		97
105) Naphthalene	14.082	128	935331	10.81	ug/L		100
106) 1,2,3-Trichlorobenzene	14.326	180	332139	10.93	ug/L		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : X:\1\data\G051324\
Data File : G24V13412.D
Acq On : 13 May 2024 8:36 am
Operator :
Sample : 24E1437-06 @ MSD Inst : GCMSVOA7
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 13 08:56:23 2024
Quant Method : X:\1\methods\GS030124.M
Quant Title : 8260 SIM/SCAN 09/21/18
QLast Update : Fri Mar 01 13:48:51 2024
Response via : Initial Calibration

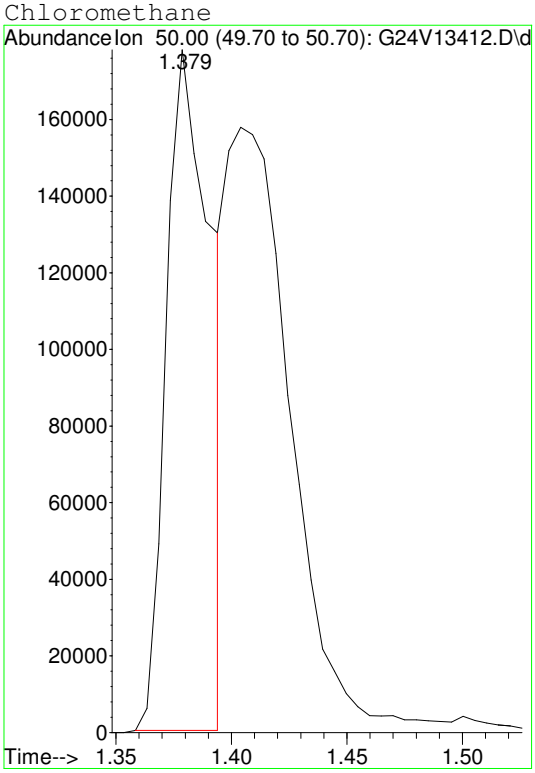




Data Path : X:\1\data\G051324\
Data File : G24V13412.D
Acq On : 13 May 2024 8:36 am
Operator :
Sample : 24E1437-06 @ MSD
Misc :

Quant Time : Mon May 13 08:56:23 2024
Quant Method : X:\1\methods\GS030124.M
QLast Update : Fri Mar 01 13:48:51 2024

Original Integration
Chloromethane



Original Int. Results

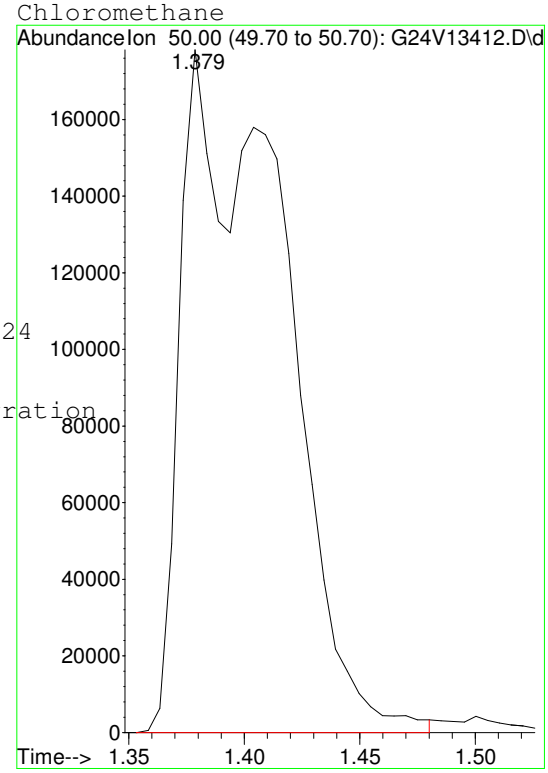
RT : 1.38
Area : 238502
Amount: 6.21828

Manual Int. Results

Mon May 13 08:56:23 2024

MIuser: MFF
Reason: Incorret Integration
RT : 1.38
Area : 546222
Amount: 14.2412

Manual Integration
Chloromethane



VOC DEPARTMENT | PREPARATION BENCH SHEET

B374129

CON-TEST ANALYTICAL LABORATORY **Printed: 5/14/2024 2:58:52PM**

Matrix: Soil **Prepared using: VOC - SW-846 5035** **Surrogate used: 24C0563**

Lab Number	Sample Name	Sample ID Verified (Signature)	Analysis	Due Date	TAT	Initial (g)	Final (mL)	Spike ID	Source ID	uL Spike	Location	Extraction Comments
24E1437-02	CG-2		8260 DER TCL	05/24/24 14:00	10	5.14	10				Refrigerator 45-1M	CAT B
24E1437-04	B1A		8260 DER TCL	05/24/24 14:00	10	3.8	10				Refrigerator 45-1M	CAT B
24E1437-06	SB1A		8260 DER TCL	05/24/24 14:00	10	5.49	10				Refrigerator 45-1M	CAT B
24E1437-06	SB1A		vely Identified Compo		10	5.49	10				Refrigerator 45-1M	led for BatchQC in: B374
24E1437-12	SB4A		8260 DER TCL	05/24/24 14:00	10	5.97	10				Refrigerator 45-1M	CAT B
24E1437-17	SB7		8260 DER TCL	05/24/24 14:00	10	4.78	10				Refrigerator 45-1M	CAT B
24E1437-19	DUP		8260 DER TCL	05/24/24 14:00	10	5.09	10				Refrigerator 45-1M	CAT B
24E1455-02	SB-301 (205-206)		8260 DER TCL	05/21/24 14:00	7	13.73	10				LOG-IN	CAT B REPORT TO MDL
24E1455-02	SB-301 (205-206)		vely Identified Compo	05/21/24 14:00	7	13.73	10				LOG-IN	CAT B REPORT TO MDL
24E1455-03	SB-301 (211-212)		vely Identified Compo	05/21/24 14:00	7	9.47	10				LOG-IN	CAT B REPORT TO MDL
24E1455-03	SB-301 (211-212)		8260 DER TCL	05/21/24 14:00	7	9.47	10				LOG-IN	CAT B REPORT TO MDL
24E1455-05	SB-301 (221-222)		8260 DER TCL	05/21/24 14:00	7	5.7	10				LOG-IN	CAT B REPORT TO MDL
24E1455-05	SB-301 (221-222)		vely Identified Compo	05/21/24 14:00	7	5.7	10				LOG-IN	CAT B REPORT TO MDL
24E1455-07	DUP-03		8260 DER TCL	05/21/24 14:00	7	9.62	10				LOG-IN	CAT B REPORT TO MDL
24E1455-07	DUP-03		vely Identified Compo	05/21/24 14:00	7	9.62	10				LOG-IN	CAT B REPORT TO MDL
24E1455-10	SB-302 (14-15)		8260 DER TCL	05/21/24 14:00	7	6.96	10				LOG-IN	CAT B REPORT TO MDL
24E1455-10	SB-302 (14-15)		vely Identified Compo	05/21/24 14:00	7	6.96	10				LOG-IN	CAT B REPORT TO MDL
24E1455-11	SB-302 (25-26)		vely Identified Compo	05/21/24 14:00	7	6.22	10				LOG-IN	CAT B REPORT TO MDL
24E1455-11	SB-302 (25-26)		8260 DER TCL	05/21/24 14:00	7	6.22	10				LOG-IN	CAT B REPORT TO MDL
24E1455-12	SB-302 (36-37)		8260 DER TCL	05/21/24 14:00	7	6.97	10				LOG-IN	CAT B REPORT TO MDL
24E1455-12	SB-302 (36-37)		vely Identified Compo	05/21/24 14:00	7	6.97	10				LOG-IN	CAT B REPORT TO MDL
24E1455-13	SB-302 (49-50)		8260 DER TCL	05/21/24 14:00	7	10.92	10				LOG-IN	CAT B REPORT TO MDL
24E1455-13	SB-302 (49-50)		vely Identified Compo	05/21/24 14:00	7	10.92	10				LOG-IN	CAT B REPORT TO MDL

437

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

VOC DEPARTMENT | PREPARATION BENCH SHEET

B374129

CON-TEST ANALYTICAL LABORATORY

Printed: 5/14/2024 2:58:52PM

Matrix: Soil **Prepared using: VOC - SW-846 5035** **Surrogate used: 24C0563**

Lab Number	Sample Name	Sample ID Verified (Signature)	Analysis	Due Date	TAT	Initial (g)	Final (mL)	Spike ID	Source ID	uL Spike	Location	Extraction Comments
24E1455-14	SB-302 (55-56)		vely Identified Compo	05/21/24 14:00	7	11.86	10				LOG-IN	CAT B REPORT TO MDL
24E1455-14	SB-302 (55-56)		8260 DER TCL	05/21/24 14:00	7	11.86	10				LOG-IN	CAT B REPORT TO MDL
24E1455-15	SB-302 (64-66)		8260 DER TCL	05/21/24 14:00	7	7.77	10				LOG-IN	CAT B REPORT TO MDL
24E1455-15	SB-302 (64-66)		vely Identified Compo	05/21/24 14:00	7	7.77	10				LOG-IN	CAT B REPORT TO MDL
24E1455-16	SB-302 (73-74)		8260 DER TCL	05/21/24 14:00	7	5.57	10				LOG-IN	CAT B REPORT TO MDL
24E1455-16	SB-302 (73-74)		vely Identified Compo	05/21/24 14:00	7	5.57	10				LOG-IN	CAT B REPORT TO MDL
B374129-BLK1	Blank		QC			5	10					
B374129-BS1	LCS		QC			5	10	24B0015		2		
B374129-BSD1	LCS Dup		QC			5	10	24B0015		2		
B374129-MS1	Matrix Spike		QC			5.78	10	24D1011	24E1437-06	5		
B374129-MSD1	Matrix Spike Dup		QC			6.37	10	24D1011	24E1437-06	5		

#7 5/13/24

438

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

X:\1\data\G051324\

Date	Filename	Lab ID	Sample Info
13 May 2024 3:47 am	G24V13401.D	BLK	
13 May 2024 4:17 am	G24V13402.D	BFB/8260 STD 10PPB 24B1017	
13 May 2024 4:43 am	G24V13403.D	B0BS1/BS	
13 May 2024 5:08 am	G24V13404.D	B0BSD1/BS	
13 May 2024 5:34 am	G24V13405.D	B0BS1 @ RCP	
13 May 2024 5:59 am	G24V13406.D	B0BSD1@ RCP	
13 May 2024 6:25 am	G24V13407.D	BLK	
13 May 2024 6:51 am	G24V13408.D	B0BLK1	
13 May 2024 7:16 am	G24V13409.D	24E1437-06	
13 May 2024 7:42 am	G24V13410.D	24E1437-02	
13 May 2024 8:09 am	G24V13411.D	24E1437-06 @ MS	
13 May 2024 8:36 am	G24V13412.D	24E1437-06 @ MSD	
13 May 2024 9:02 am	G24V13413.D	BLK	
13 May 2024 9:27 am	G24V13414.D	24E1437-04	
13 May 2024 9:53 am	G24V13415.D	24E1437-12	
13 May 2024 10:18 am	G24V13416.D	24E1437-17	
13 May 2024 10:44 am	G24V13417.D	24E1437-19	
13 May 2024 11:09 am	G24V13418.D	24E1455-02	
13 May 2024 12:17 pm	G24V13419.D	24E1455-03	
13 May 2024 12:43 pm	G24V13420.D	24E1455-05	
13 May 2024 1:08 pm	G24V13421.D	24E1455-07	
13 May 2024 1:34 pm	G24V13422.D	24E1455-10	
13 May 2024 1:59 pm	G24V13423.D	24E1455-11	
13 May 2024 2:25 pm	G24V13424.D	24E1455-12	
13 May 2024 2:50 pm	G24V13425.D	24E1455-13	
13 May 2024 3:16 pm	G24V13426.D	24E1455-14	
13 May 2024 3:42 pm	G24V13427.D	24E1455-15	
13 May 2024 4:07 pm	G24V13428.D	24E1455-16	
13 May 2024 4:33 pm	G24V13429.D	BLK	
13 May 2024 4:58 pm	G24V13430.D	CHK	

SVOA

SAMPLE DATA

1 - FORM I
ANALYSIS DATA SHEET

CG-2

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-02	File ID:	D24S137015.D
Sampled:	05/08/24 10:40	Prepared:	05/12/24 07:21	Analyzed:	05/16/24 16:54
Solids:	62.99	Preparation:	SW-846 3546	Dilution:	1
Initial/Final:	30.55 g / 1 mL				
Batch:	B374087	Sequence:	S104909	Calibration:	2400207
Instrument:	GCMSSV4				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
58-90-2	2,3,4,6-Tetrachlorophenol		0.072	1.0	
1912-24-9	Atrazine		0.068	1.0	
100-52-7	Benzaldehyde	0.18	0.084	0.53	J
92-52-4	Biphenyl		0.067	1.0	
105-60-2	Caprolactam		0.092	0.53	
83-32-9	Acenaphthene		0.051	0.27	
208-96-8	Acenaphthylene		0.048	0.27	
98-86-2	Acetophenone		0.055	0.53	
62-53-3	Aniline		0.092	0.53	
120-12-7	Anthracene		0.047	0.27	
56-55-3	Benzo(a)anthracene	0.11	0.043	0.27	J
50-32-8	Benzo(a)pyrene	0.16	0.048	0.27	J
205-99-2	Benzo(b)fluoranthene	0.28	0.043	0.27	
191-24-2	Benzo(g,h,i)perylene	0.21	0.076	0.27	J
207-08-9	Benzo(k)fluoranthene	0.098	0.048	0.27	J
111-91-1	Bis(2-chloroethoxy)methane		0.057	0.53	
111-44-4	Bis(2-chloroethyl)ether		0.075	0.53	
108-60-1	Bis(2-chloroisopropyl)ether		0.33	0.53	V-06
117-81-7	Bis(2-Ethylhexyl)phthalate		0.063	0.53	L-05, V-06
101-55-3	4-Bromophenylphenylether		0.048	0.53	
85-68-7	Butylbenzylphthalate		0.059	0.53	
86-74-8	Carbazole		0.053	0.27	
106-47-8	4-Chloroaniline		0.094	1.0	
59-50-7	4-Chloro-3-methylphenol		0.055	1.0	
91-58-7	2-Chloronaphthalene		0.046	0.53	
95-57-8	2-Chlorophenol		0.053	0.53	
7005-72-3	4-Chlorophenylphenylether		0.044	0.53	
218-01-9	Chrysene	0.18	0.047	0.27	J
53-70-3	Dibenz(a,h)anthracene		0.073	0.27	
132-64-9	Dibenzofuran		0.047	0.53	

1 - FORM I
ANALYSIS DATA SHEET

CG-2

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-02	File ID:	D24S137015.D
Sampled:	05/08/24 10:40	Prepared:	05/12/24 07:21	Analyzed:	05/16/24 16:54
Solids:	62.99	Preparation:	SW-846 3546	Dilution:	1
Initial/Final:	30.55 g / 1 mL				
Batch:	B374087	Sequence:	S104909	Calibration:	2400207	Instrument:	GCMSSV4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
84-74-2	Di-n-butylphthalate		0.20	0.53	
91-94-1	3,3-Dichlorobenzidine		0.11	0.27	
120-83-2	2,4-Dichlorophenol		0.050	0.53	
84-66-2	Diethylphthalate		0.051	0.53	
105-67-9	2,4-Dimethylphenol		0.12	0.53	
131-11-3	Dimethylphthalate		0.050	0.53	
534-52-1	4,6-Dinitro-2-methylphenol		0.42	0.53	
51-28-5	2,4-Dinitrophenol		0.41	1.0	
121-14-2	2,4-Dinitrotoluene		0.054	0.53	
606-20-2	2,6-Dinitrotoluene		0.056	0.53	
117-84-0	Di-n-octylphthalate		0.075	0.53	V-20
206-44-0	Fluoranthene	0.16	0.043	0.27	J
86-73-7	Fluorene		0.047	0.27	
118-74-1	Hexachlorobenzene		0.051	0.53	
87-68-3	Hexachlorobutadiene		0.048	0.53	
77-47-4	Hexachlorocyclopentadiene		0.35	0.53	L-04, V-05
67-72-1	Hexachloroethane		0.049	0.53	
193-39-5	Indeno(1,2,3-cd)pyrene	0.19	0.086	0.27	J
78-59-1	Isophorone		0.056	0.53	
90-12-0	1-Methylnaphthalene		0.053	0.27	
91-57-6	2-Methylnaphthalene		0.045	0.27	
95-48-7	2-Methylphenol		0.071	0.53	
108-39-4/106-44	3/4-Methylphenol		0.070	0.53	
91-20-3	Naphthalene		0.093	0.27	
88-74-4	2-Nitroaniline		0.064	0.53	
99-09-2	3-Nitroaniline		0.11	0.53	
100-01-6	4-Nitroaniline		0.059	0.53	
98-95-3	Nitrobenzene		0.067	0.53	
88-75-5	2-Nitrophenol		0.052	0.53	
100-02-7	4-Nitrophenol		0.14	1.0	

1 - FORM I
ANALYSIS DATA SHEET

CG-2

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-02	File ID:	D24S137015.D
Sampled:	05/08/24 10:40	Prepared:	05/12/24 07:21	Analyzed:	05/16/24 16:54
Solids:	62.99	Preparation:	SW-846 3546	Dilution:	1
Initial/Final:	30.55 g / 1 mL				
Batch:	B374087	Sequence:	S104909	Calibration:	2400207
Instrument:	GCMSSV4				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
86-30-6	N-Nitrosodiphenylamine/Diphenylamine		0.067	0.53	
621-64-7	N-Nitrosodi-n-propylamine		0.074	0.53	
87-86-5	Pentachlorophenol		0.19	0.53	V-05
85-01-8	Phenanthrene		0.047	0.27	
108-95-2	Phenol		0.067	0.53	
129-00-0	Pyrene	0.15	0.055	0.27	J
110-86-1	Pyridine		0.062	0.53	
95-94-3	1,2,4,5-Tetrachlorobenzene		0.052	0.53	
95-95-4	2,4,5-Trichlorophenol		0.054	0.53	
88-06-2	2,4,6-Trichlorophenol		0.050	0.53	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D051624\
Data File : D24S137015.D
Acq On : 16 May 2024 4:54 pm
Operator : BGL
Sample : 24E1437-02@/DER Inst : GCMSSV4
Misc :
ALS Vial : 15 Sample Multiplier: 1

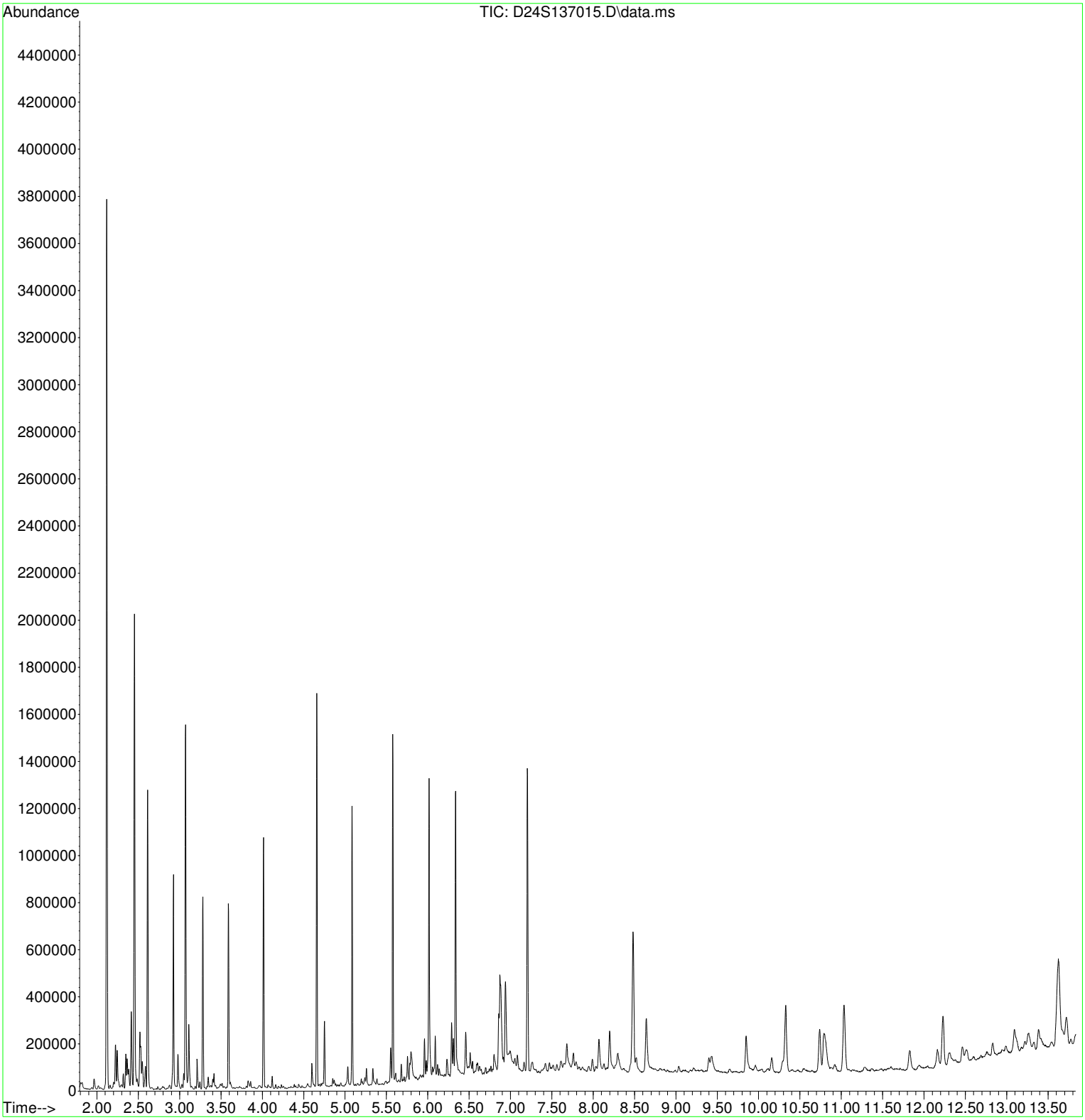
Quant Time: May 23 12:26:51 2024
Quant Method : C:\MSDCHEM\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Wed Apr 24 09:02:55 2024
Response via : Initial Calibration

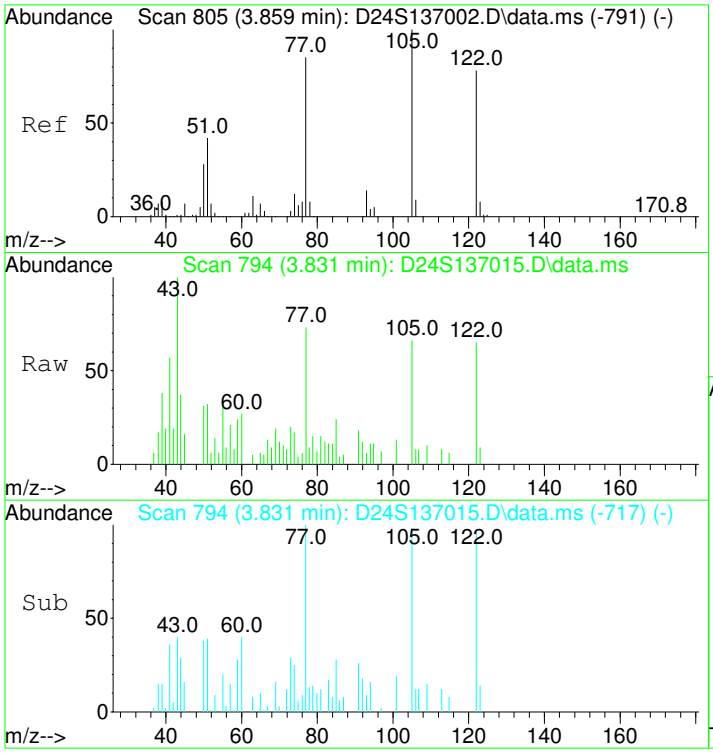
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-D4	3.280	152	82822	40.00	ug/ml	-0.03
19) NAPHTHALENE-d8	4.014	136	312047	40.00	ug/ml	-0.03
35) ACENAPHTHENE-D10	5.085	164	173838	40.00	ug/ml	-0.03
58) PHENANTHRENE-D10	6.015	188	309691	40.00	ug/ml	-0.03
71) CHRYSENE-D12	8.481	240	233070	40.00	ug/ml	-0.06
80) PERYLENE-D12	11.033	264	172909	40.00	ug/ml	-0.07
System Monitoring Compounds						
2) 2-Fluorophenol	2.613	112	232665	115.31	ug/ml	-0.03
Spiked Amount 200.000	Range 30 - 130		Recovery = 57.66%			
3) Phenol-d6	3.072	99	357347	111.66	ug/ml	-0.03
Spiked Amount 200.000	Range 30 - 130		Recovery = 55.83%			
20) Nitrobenzene-d5	3.589	82	178882	61.88	ug/ml	-0.03
Spiked Amount 100.000	Range 30 - 130		Recovery = 61.88%			
36) 2-Fluorobiphenyl	4.658	172	326925	61.30	ug/ml	-0.03
Spiked Amount 100.000	Range 30 - 130		Recovery = 61.30%			
37) 2,4,6-Tribromophenol	5.580	330	90242	99.59	ug/ml	-0.03
Spiked Amount 200.000	Range 30 - 130		Recovery = 49.80%			
72) Terphenyl-d14	7.204	244	335455	71.33	ug/ml	-0.04
Spiked Amount 100.000	Range 30 - 130		Recovery = 71.33%			
Target Compounds						Qvalue
26) Benzoic Acid	3.831	122	1896	1.15	ug/ml	92
70) Flouranthene	6.880	202	28545	2.99	ug/ml	84
74) Pyrene	7.083	202	24147	2.94	ug/ml	95
77) Benzo(a)anthracene	8.468	228	17736	2.17	ug/ml	93
78) Chrysene	8.520	228	26174	3.44	ug/ml	92
82) Benzo(b)fluoranthene	10.289	252	31928	5.40	ug/ml	96
83) Benzo(k)fluoranthene	10.335	252	9769m	1.89	ug/ml	
84) Benzo(a)pyrene	10.920	252	15373	2.99	ug/ml	96
85) Indeno(1,2,3-cd)pyrene	12.987	276	15433	3.67	ug/ml	95
87) Benzo(g,h,i)perylene	13.381	276	15978	4.02	ug/ml	87

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\D051624\
Data File : D24S137015.D
Acq On : 16 May 2024 4:54 pm
Operator : BGL
Sample : 24E1437-02@/DER Inst : GCMSSV4
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 23 12:26:51 2024
Quant Method : C:\MSDCHEM\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Wed Apr 24 09:02:55 2024
Response via : Initial Calibration

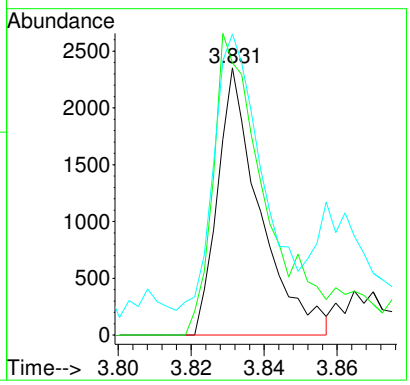


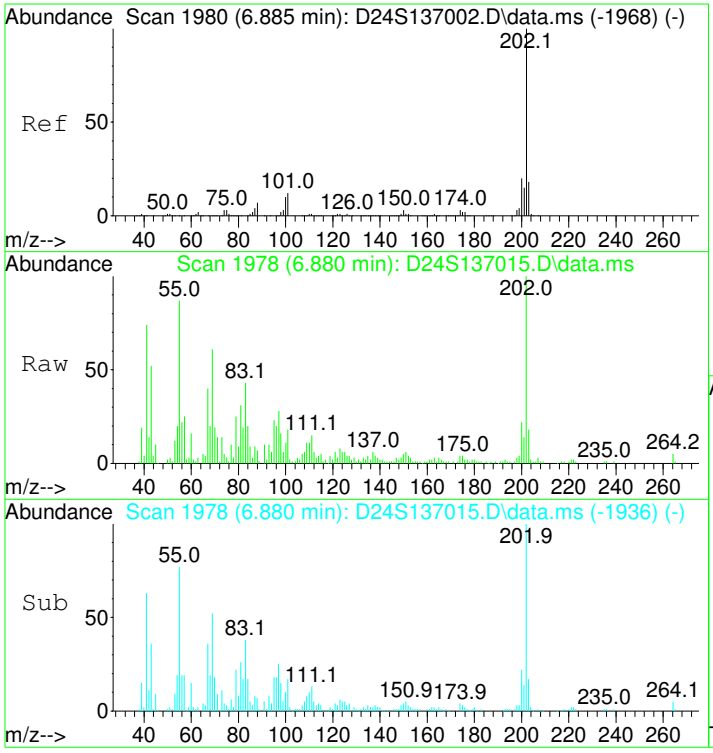


#26
Benzoic Acid
Concen: 1.15 ug/ml
RT: 3.831 min Scan# 794
Delta R.T. -0.052 min
Lab File: D24S137015.D
Acq: 16 May 2024 4:54 pm

Tgt Ion:122 Resp: 1896

Ion	Ratio	Lower	Upper
122	100		
105	137.3	127.2	167.2
77	116.9	89.2	129.2

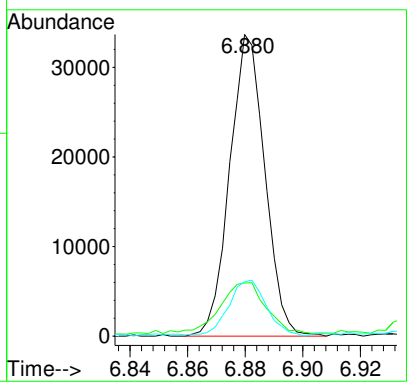


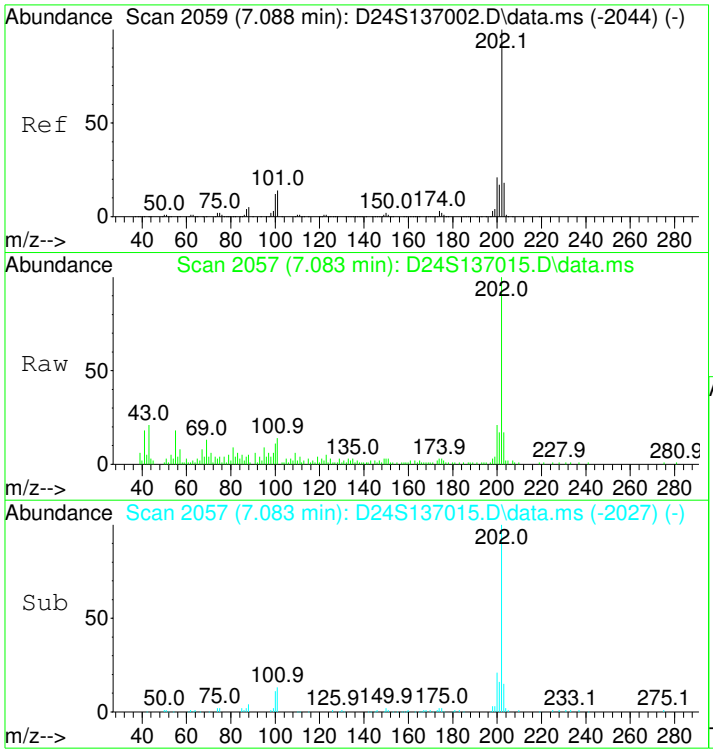


#70
Flouranthene
Concen: 2.99 ug/ml
RT: 6.880 min Scan# 1978
Delta R.T. -0.042 min
Lab File: D24S137015.D
Acq: 16 May 2024 4:54 pm

Tgt Ion:202 Resp: 28545

Ion	Ratio	Lower	Upper
202	100		
101	22.5	0.0	30.9
203	20.2	0.0	37.5

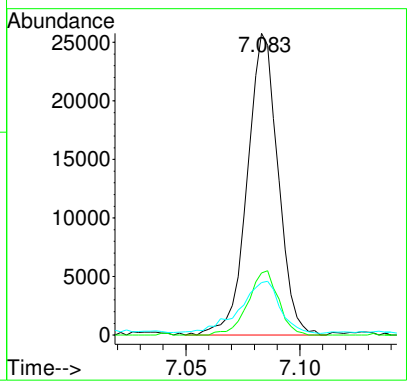


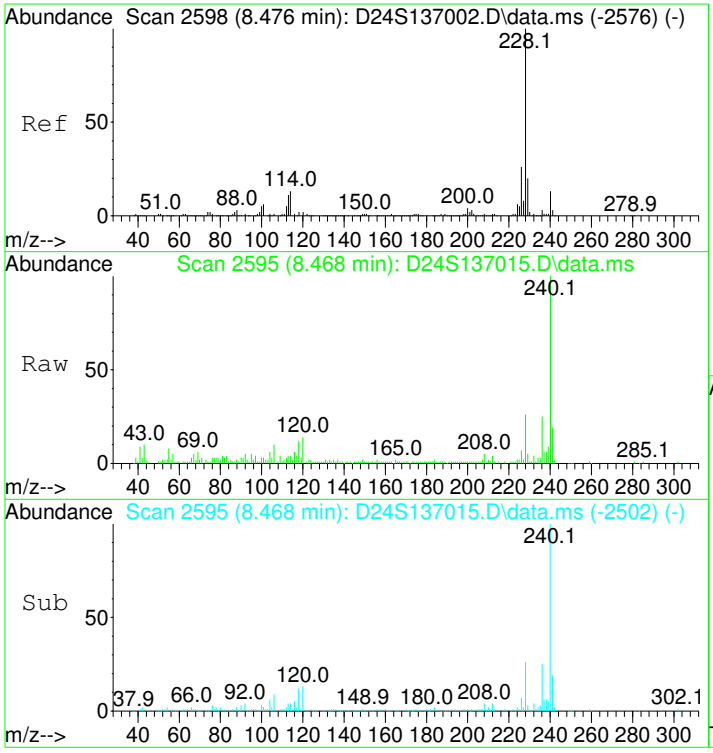


#74
Pyrene
Concen: 2.94 ug/ml
RT: 7.083 min Scan# 2057
Delta R.T. -0.042 min
Lab File: D24S137015.D
Acq: 16 May 2024 4:54 pm

Tgt Ion:202 Resp: 24147

Ion	Ratio	Lower	Upper
202	100		
200	21.1	0.8	40.8
203	22.7	0.0	38.3

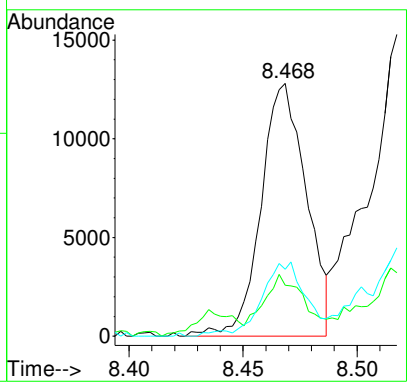


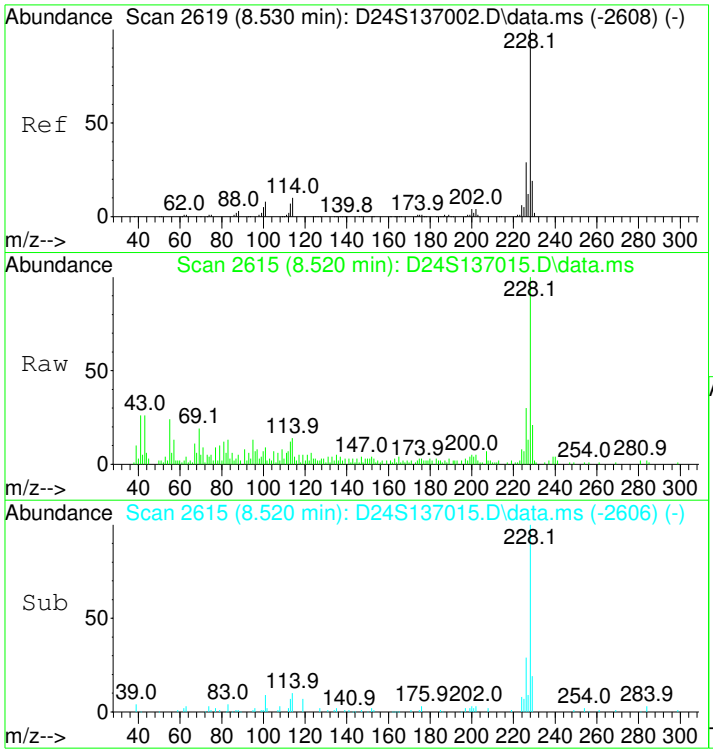


#77
Benzo(a)anthracene
Concen: 2.17 ug/ml
RT: 8.468 min Scan# 2595
Delta R.T. -0.052 min
Lab File: D24S137015.D
Acq: 16 May 2024 4:54 pm

Tgt Ion:228 Resp: 17736

Ion	Ratio	Lower	Upper
228	100		
229	15.7	0.0	39.7
226	28.6	5.7	45.7

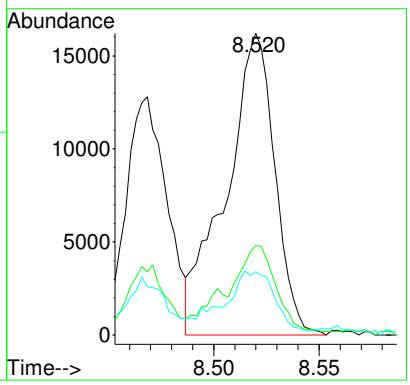


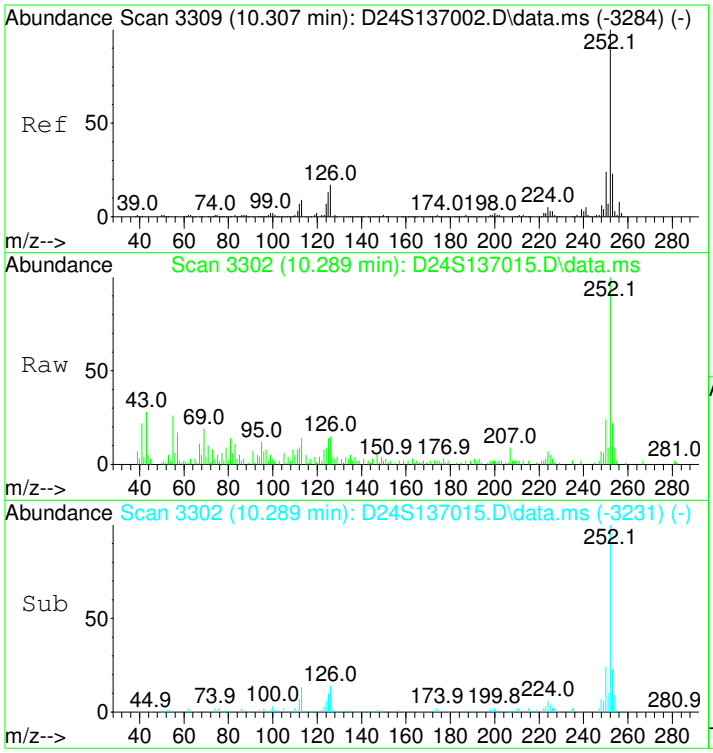


#78
Chrysene
Concen: 3.44 ug/ml
RT: 8.520 min Scan# 2615
Delta R.T. -0.058 min
Lab File: D24S137015.D
Acq: 16 May 2024 4:54 pm

Tgt Ion:228 Resp: 26174

Ion	Ratio	Lower	Upper
228	100		
226	22.5	9.5	49.5
229	20.2	0.0	39.6

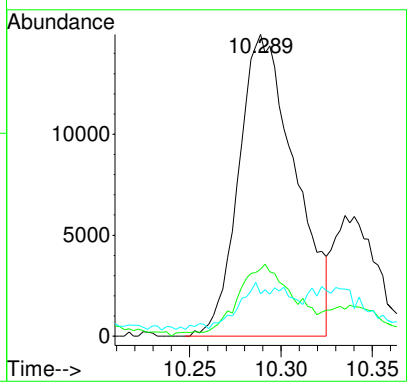


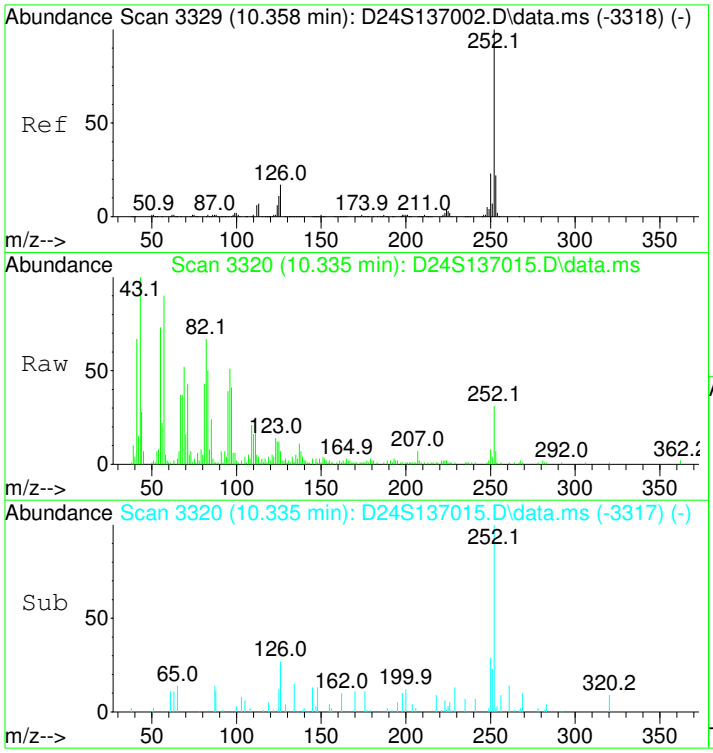


#82
Benzo(b)fluoranthene
Concen: 5.40 ug/ml
RT: 10.289 min Scan# 3302
Delta R.T. -0.068 min
Lab File: D24S137015.D
Acq: 16 May 2024 4:54 pm

Tgt Ion:252 Resp: 31928

Ion	Ratio	Lower	Upper
252	100		
253	23.8	4.0	44.0
125	7.7	0.0	32.1

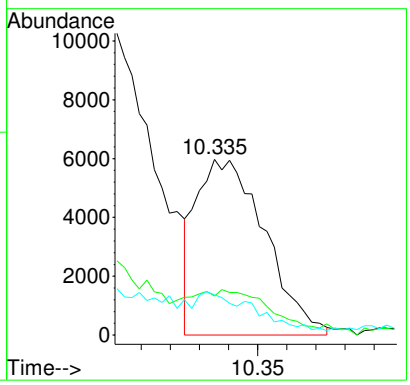


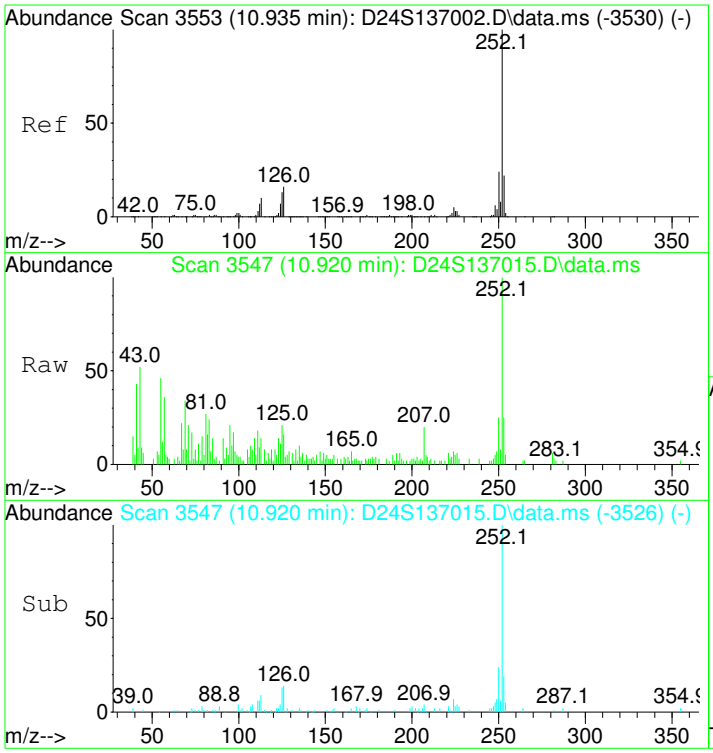


#83
Benzo(k)fluoranthene
Concen: 1.89 ug/ml m
RT: 10.335 min Scan# 3320
Delta R.T. -0.073 min
Lab File: D24S137015.D
Acq: 16 May 2024 4:54 pm

Tgt Ion:252 Resp: 9769

Ion	Ratio	Lower	Upper
252	100		
253	40.4	1.9	41.9
126	17.0	0.0	34.8

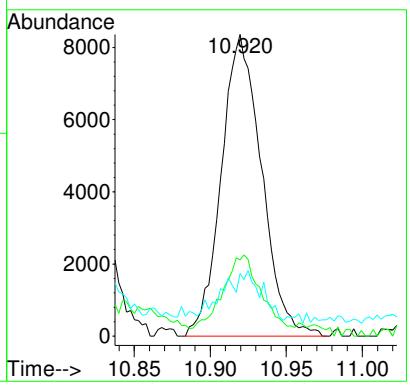


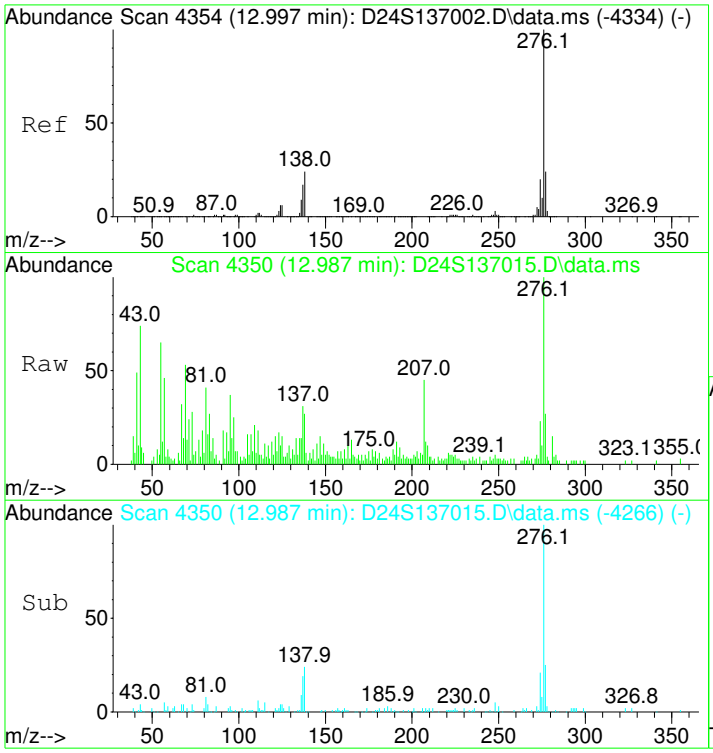


#84
Benzo(a)pyrene
Concen: 2.99 ug/ml
RT: 10.920 min Scan# 3547
Delta R.T. -0.065 min
Lab File: D24S137015.D
Acq: 16 May 2024 4:54 pm

Tgt Ion:252 Resp: 15373

Ion	Ratio	Lower	Upper
252	100		
253	22.9	2.0	42.0
125	8.9	0.0	31.6

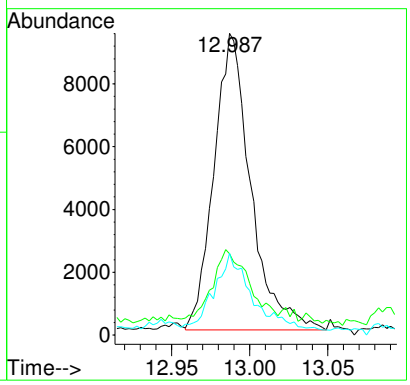


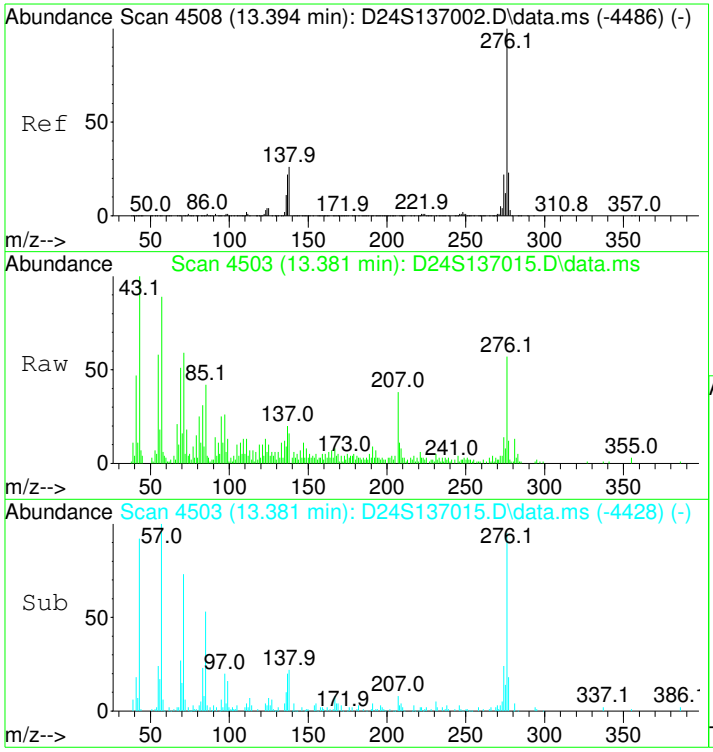


#85
Indeno(1,2,3-cd)pyrene
Concen: 3.67 ug/ml
RT: 12.987 min Scan# 4350
Delta R.T. -0.045 min
Lab File: D24S137015.D
Acq: 16 May 2024 4:54 pm

Tgt Ion:276 Resp: 15433

Ion	Ratio	Lower	Upper
276	100		
138	25.8	1.7	41.7
277	23.3	3.7	43.7

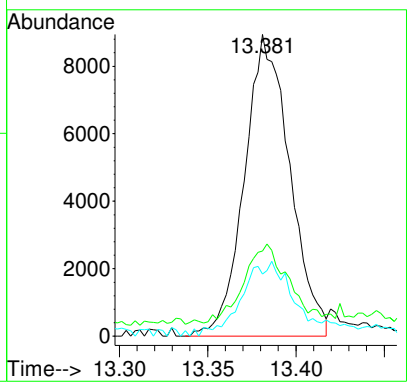




#87
Benzo(g,h,i)perylene
Concen: 4.02 ug/ml
RT: 13.381 min Scan# 4503
Delta R.T. -0.047 min
Lab File: D24S137015.D
Acq: 16 May 2024 4:54 pm

Tgt Ion:276 Resp: 15978

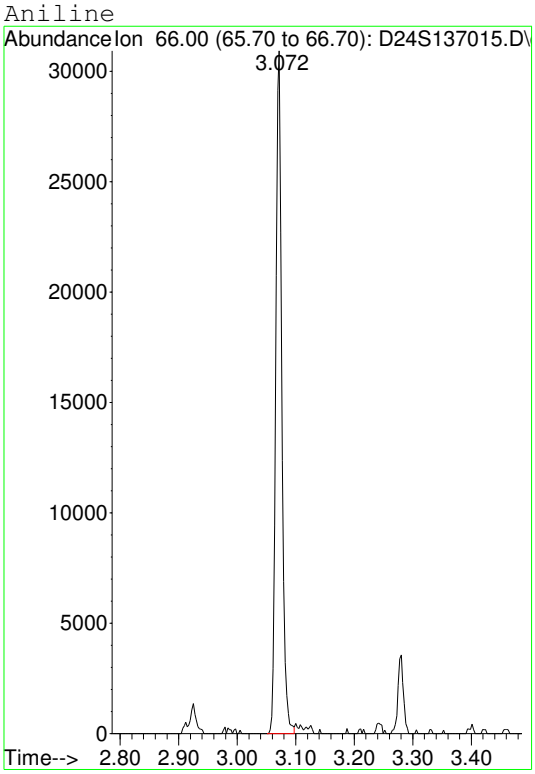
Ion	Ratio	Lower	Upper
276	100		
138	25.6	3.2	43.2
277	12.8	3.3	43.3



Data Path : C:\msdchem\1\DATA\D051624\
Data File : D24S137015.D
Acq On : 16 May 2024 4:54 pm
Operator : BGL
Sample : 24E1437-02@/DER
Misc :

Quant Time : Thu May 23 12:26:51 2024
Quant Method : C:\MSDCHEM\1\METHODS\BND02154.M
QLast Update : Wed Apr 24 09:02:55 2024

Original Integration
Aniline



Original Int. Results

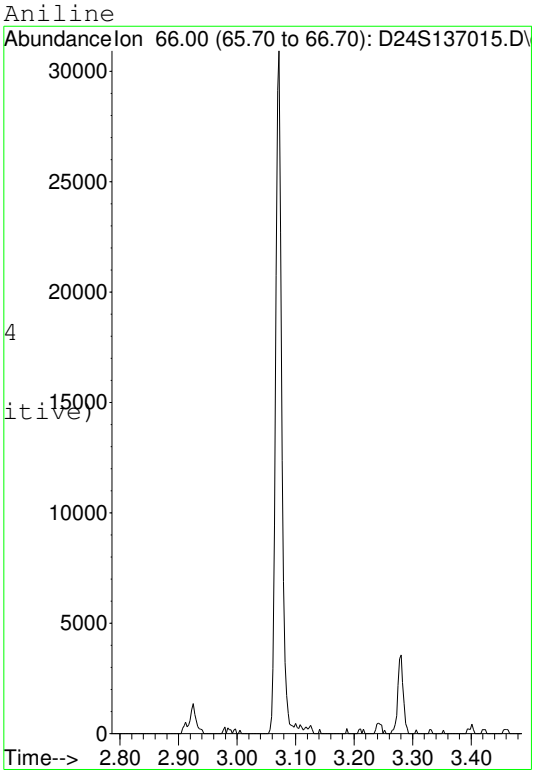
RT : 3.07
Area : 22136
Amount: 14.6121

Manual Int. Results

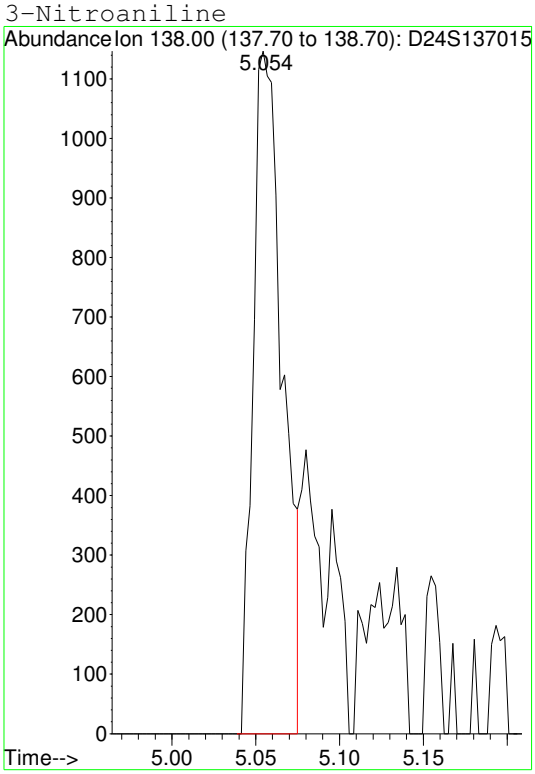
Thu May 23 12:26:34 2024

MIuser: BGL
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
Aniline



Original Integration
3-Nitroaniline



Original Int. Results

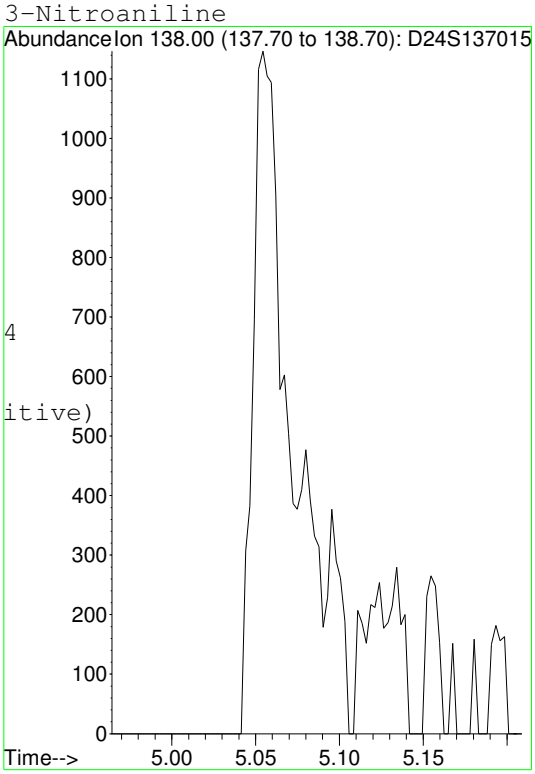
RT : 5.05
Area : 1421
Amount: 1.14194

Manual Int. Results

Thu May 23 12:26:39 2024

MIuser: BGL
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

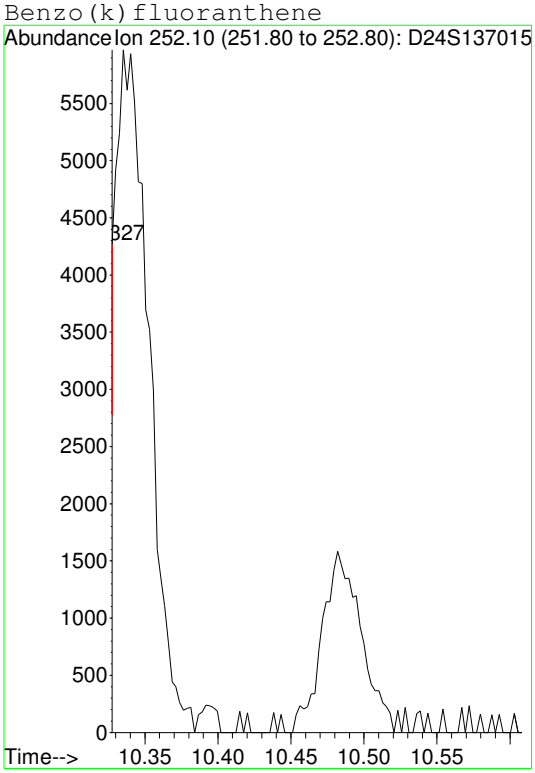
Manual Integration
3-Nitroaniline



Data Path : C:\msdchem\1\DATA\D051624\
Data File : D24S137015.D
Acq On : 16 May 2024 4:54 pm
Operator : BGL
Sample : 24E1437-02@/DER
Misc :

Quant Time : Thu May 23 12:26:51 2024
Quant Method : C:\MSDCHEM\1\METHODS\BND02154.M
QLast Update : Wed Apr 24 09:02:55 2024

Original Integration
Benzo(k)fluoranthene



Original Int. Results

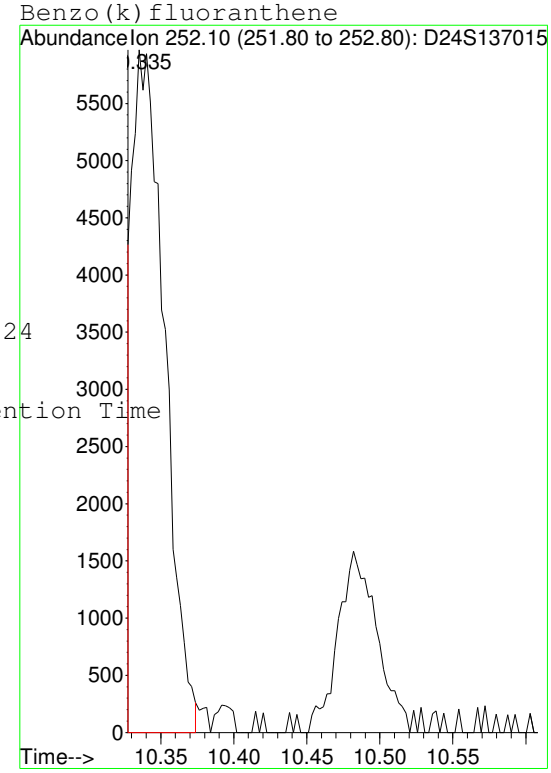
RT : 10.29
Area : 19124
Amount: 3.69839

Manual Int. Results

Thu May 23 12:26:51 2024

MIuser: BGL
Reason: Incorrect Retention Time
RT : 10.34
Area : 9769
Amount: 1.88922

Manual Integration
Benzo(k)fluoranthene



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D051624\
Data File : D24S137015.D
Acq On : 16 May 2024 4:54 pm
Operator : BGL
Sample : 24E1437-02@/DER Inst : GCMSSV4
Misc :
ALS Vial : 15 Sample Multiplier: 1

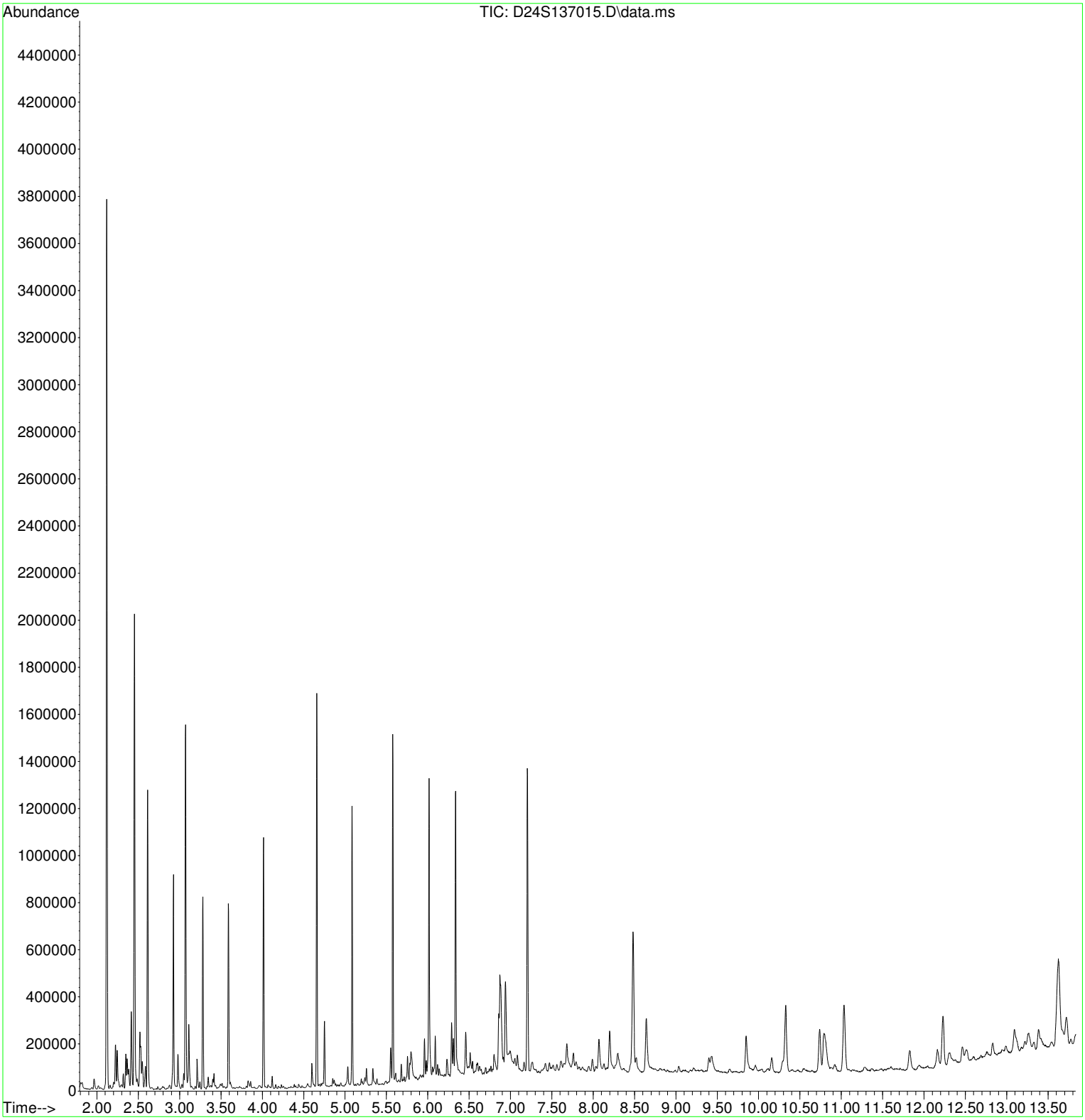
Quant Time: May 23 10:25:29 2024
Quant Method : C:\msdchem\1\METHODS\NCD02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270STD SVMS4 N.C. apx2 extra compds PulseWool
QLast Update : Thu May 23 10:19:14 2024
Response via : Initial Calibration

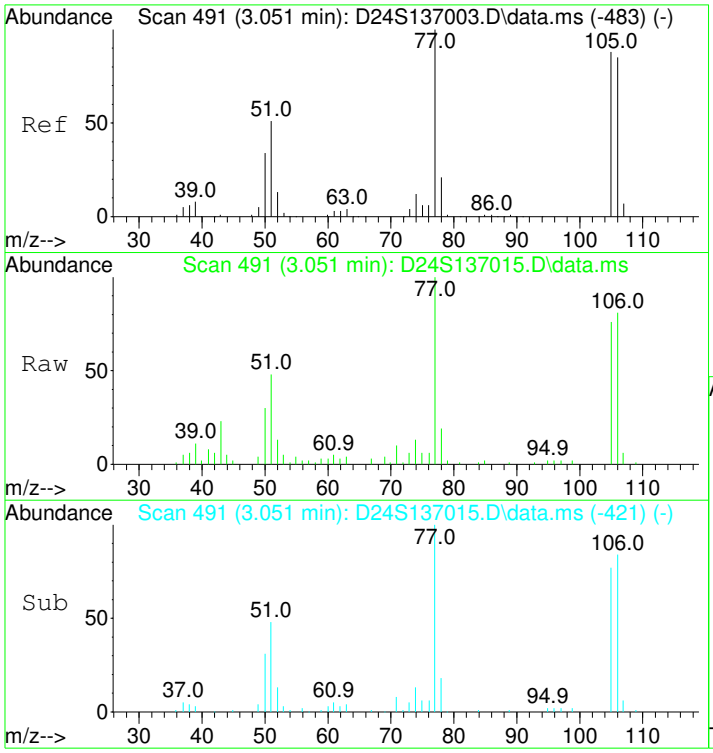
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-D4...	3.280	152	82822	40.00	ug/ml	-0.02
6) NAPHTHALENE-d8 (2)	4.014	136	312047	40.00	ug/ml	-0.03
10) ACENAPHTHENE-D10 (2)	5.085	164	173838	40.00	ug/ml	0.00
16) PHENANTHRENE-D10 (2)	6.015	188	309691	40.00	ug/ml	0.00
17) CHRYSENE-D12 (2)	8.481	240	233070	40.00	ug/ml	-0.05
19) PERYLENE-D12 (2)	11.033	264	172909	40.00	ug/ml	-0.01
System Monitoring Compounds						
2) 2-Fluorophenol	2.613	112	232665	0.00	ug/ml	-0.12
Spiked Amount 200.000	Range 30 - 130		Recovery =	0.00%#		
3) Phenol-d6	3.072	99	357347	0.00	ug/ml	-0.12
Spiked Amount 200.000	Range 30 - 130		Recovery =	0.00%#		
7) Nitrobenzene-d5	3.589	82	178882	0.00	ug/ml	0.00
Spiked Amount 100.000	Range 30 - 130		Recovery =	0.00%#		
11) 2-Fluorobiphenyl	4.658	172	326925	0.00	ug/ml	0.02
Spiked Amount 100.000	Range 30 - 130		Recovery =	0.00%#		
12) 2,4,6-Tribromophenol	0.000	330	0	0.00	ug/ml	
Spiked Amount 200.000	Range 30 - 130		Recovery =	0.00%#		
18) Terphenyl-d14	7.204	244	335455	0.00	ug/ml	-0.10
Spiked Amount 100.000	Range 30 - 130		Recovery =	0.00%#		
Target Compounds						Qvalue
4) Benzaldehyde	3.051	106	7779	3.41	ug/ml	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\D051624\
Data File : D24S137015.D
Acq On : 16 May 2024 4:54 pm
Operator : BGL
Sample : 24E1437-02@/DER Inst : GCMSSV4
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 23 10:25:29 2024
Quant Method : C:\msdchem\1\METHODS\NCD02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270STD SVMS4 N.C. apx2 extra compds PulseWool
QLast Update : Thu May 23 10:19:14 2024
Response via : Initial Calibration

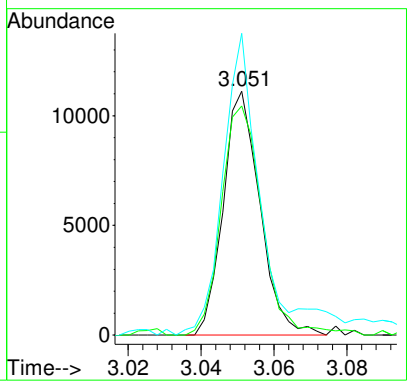




#4
Benzaldehyde
Concen: 3.41 ug/ml
RT: 3.051 min Scan# 491
Delta R.T. -0.019 min
Lab File: D24S137015.D
Acq: 16 May 2024 4:54 pm

Tgt Ion:106 Resp: 7779

Ion	Ratio	Lower	Upper
106	100		
105	105.1	84.9	124.9
77	121.6	93.7	133.7



1 - FORM I
ANALYSIS DATA SHEET

B1A

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-04	File ID:	D24S137016.D
Sampled:	05/08/24 13:27	Prepared:	05/12/24 07:21	Analyzed:	05/16/24 17:14
Solids:	85.55	Preparation:	SW-846 3546	Dilution:	1
Initial/Final:	30.35 g / 1 mL				
Batch:	B374087	Sequence:	S104909	Calibration:	2400207	Instrument:	GCMSSV4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
58-90-2	2,3,4,6-Tetrachlorophenol		0.053	0.77	
1912-24-9	Atrazine		0.050	0.77	
100-52-7	Benzaldehyde		0.063	0.39	
92-52-4	Biphenyl		0.050	0.77	
105-60-2	Caprolactam		0.068	0.39	
83-32-9	Acenaphthene		0.038	0.20	
208-96-8	Acenaphthylene		0.035	0.20	
98-86-2	Acetophenone		0.041	0.39	
62-53-3	Aniline		0.068	0.39	
120-12-7	Anthracene		0.035	0.20	
56-55-3	Benzo(a)anthracene	0.041	0.032	0.20	J
50-32-8	Benzo(a)pyrene	0.058	0.035	0.20	J
205-99-2	Benzo(b)fluoranthene	0.064	0.032	0.20	J
191-24-2	Benzo(g,h,i)perylene	0.065	0.056	0.20	J
207-08-9	Benzo(k)fluoranthene		0.035	0.20	
111-91-1	Bis(2-chloroethoxy)methane		0.042	0.39	
111-44-4	Bis(2-chloroethyl)ether		0.056	0.39	
108-60-1	Bis(2-chloroisopropyl)ether		0.25	0.39	V-06
117-81-7	Bis(2-Ethylhexyl)phthalate		0.046	0.39	L-05, V-06
101-55-3	4-Bromophenylphenylether		0.036	0.39	
85-68-7	Butylbenzylphthalate		0.044	0.39	
86-74-8	Carbazole		0.040	0.20	
106-47-8	4-Chloroaniline		0.069	0.76	
59-50-7	4-Chloro-3-methylphenol		0.041	0.76	
91-58-7	2-Chloronaphthalene		0.034	0.39	
95-57-8	2-Chlorophenol		0.039	0.39	
7005-72-3	4-Chlorophenylphenylether		0.032	0.39	
218-01-9	Chrysene	0.060	0.035	0.20	J
53-70-3	Dibenz(a,h)anthracene		0.054	0.20	
132-64-9	Dibenzofuran		0.035	0.39	

1 - FORM I
ANALYSIS DATA SHEET

B1A

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-04	File ID:	D24S137016.D
Sampled:	05/08/24 13:27	Prepared:	05/12/24 07:21	Analyzed:	05/16/24 17:14
Solids:	85.55	Preparation:	SW-846 3546	Dilution:	1
Initial/Final:	30.35 g / 1 mL				
Batch:	B374087	Sequence:	S104909	Calibration:	2400207	Instrument:	GCMSSV4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
84-74-2	Di-n-butylphthalate		0.15	0.39	
91-94-1	3,3-Dichlorobenzidine		0.085	0.20	
120-83-2	2,4-Dichlorophenol		0.037	0.39	
84-66-2	Diethylphthalate		0.038	0.39	
105-67-9	2,4-Dimethylphenol		0.091	0.39	
131-11-3	Dimethylphthalate		0.037	0.39	
534-52-1	4,6-Dinitro-2-methylphenol		0.31	0.39	
51-28-5	2,4-Dinitrophenol		0.30	0.76	
121-14-2	2,4-Dinitrotoluene		0.040	0.39	
606-20-2	2,6-Dinitrotoluene		0.041	0.39	
117-84-0	Di-n-octylphthalate		0.055	0.39	V-20
206-44-0	Fluoranthene	0.063	0.032	0.20	J
86-73-7	Fluorene		0.035	0.20	
118-74-1	Hexachlorobenzene		0.038	0.39	
87-68-3	Hexachlorobutadiene		0.035	0.39	
77-47-4	Hexachlorocyclopentadiene		0.26	0.39	L-04, V-05
67-72-1	Hexachloroethane		0.036	0.39	
193-39-5	Indeno(1,2,3-cd)pyrene		0.064	0.20	
78-59-1	Isophorone		0.042	0.39	
90-12-0	1-Methylnaphthalene		0.039	0.20	
91-57-6	2-Methylnaphthalene		0.033	0.20	
95-48-7	2-Methylphenol		0.052	0.39	
108-39-4/106-44	3/4-Methylphenol		0.052	0.39	
91-20-3	Naphthalene		0.069	0.20	
88-74-4	2-Nitroaniline		0.048	0.39	
99-09-2	3-Nitroaniline		0.082	0.39	
100-01-6	4-Nitroaniline		0.044	0.39	
98-95-3	Nitrobenzene		0.049	0.39	
88-75-5	2-Nitrophenol		0.038	0.39	
100-02-7	4-Nitrophenol		0.10	0.76	

1 - FORM I
ANALYSIS DATA SHEET

B1A

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-04	File ID:	D24S137016.D
Sampled:	05/08/24 13:27	Prepared:	05/12/24 07:21	Analyzed:	05/16/24 17:14
Solids:	85.55	Preparation:	SW-846 3546	Dilution:	1
Initial/Final:	30.35 g / 1 mL				
Batch:	B374087	Sequence:	S104909	Calibration:	2400207
Instrument:	GCMSSV4				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
86-30-6	N-Nitrosodiphenylamine/Diphenylamine		0.050	0.39	
621-64-7	N-Nitrosodi-n-propylamine		0.055	0.39	
87-86-5	Pentachlorophenol		0.14	0.39	V-05
85-01-8	Phenanthrene		0.035	0.20	
108-95-2	Phenol		0.050	0.39	
129-00-0	Pyrene	0.11	0.041	0.20	J
110-86-1	Pyridine		0.046	0.39	
95-94-3	1,2,4,5-Tetrachlorobenzene		0.039	0.39	
95-95-4	2,4,5-Trichlorophenol		0.040	0.39	
88-06-2	2,4,6-Trichlorophenol		0.037	0.39	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D051624\
Data File : D24S137016.D
Acq On : 16 May 2024 5:14 pm
Operator : BGL
Sample : 24E1437-04 Inst : GCMSSV4
Misc :
ALS Vial : 16 Sample Multiplier: 1

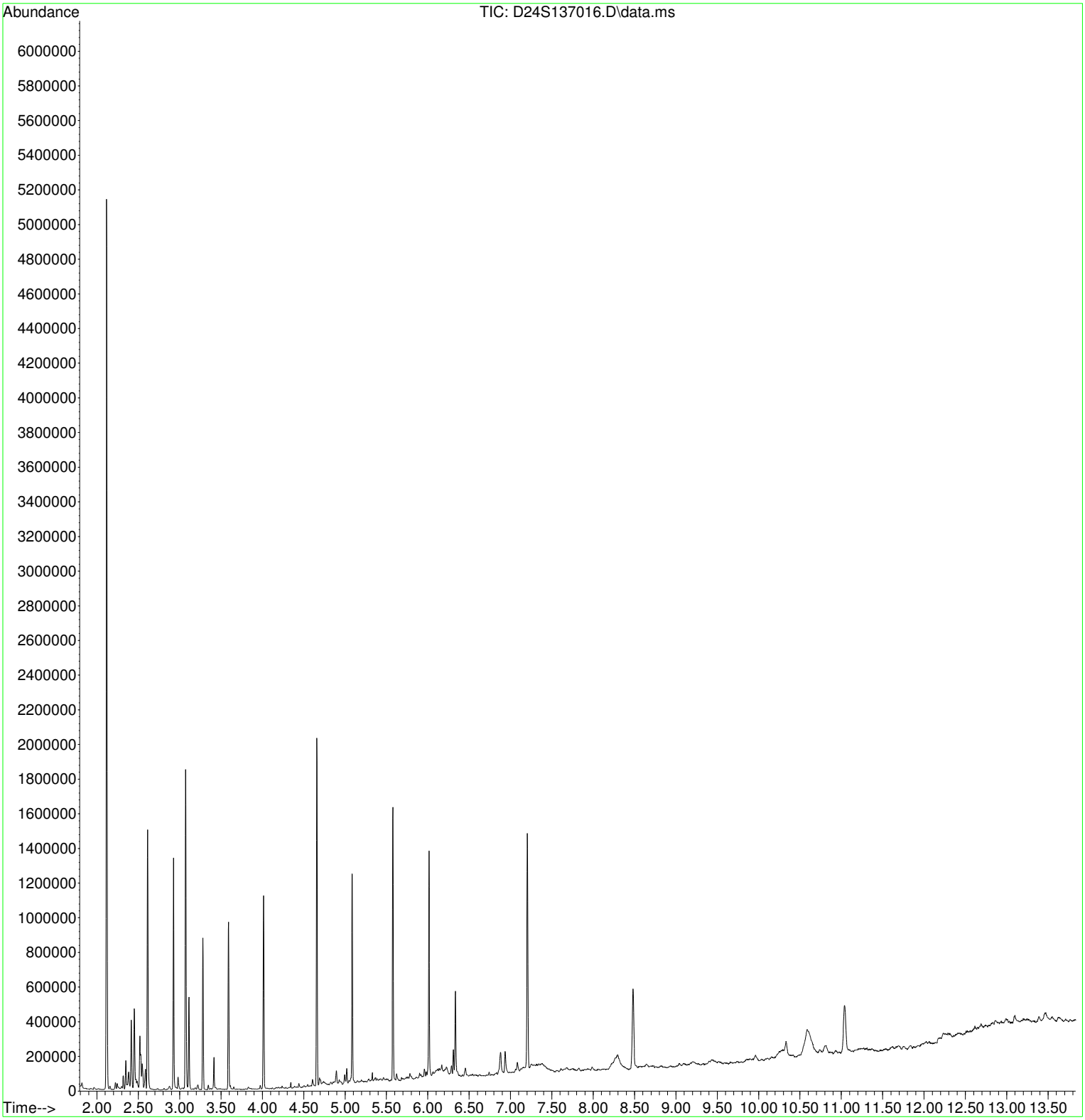
Quant Time: May 23 12:27:58 2024
Quant Method : C:\MSDCHEM\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Wed Apr 24 09:02:55 2024
Response via : Initial Calibration

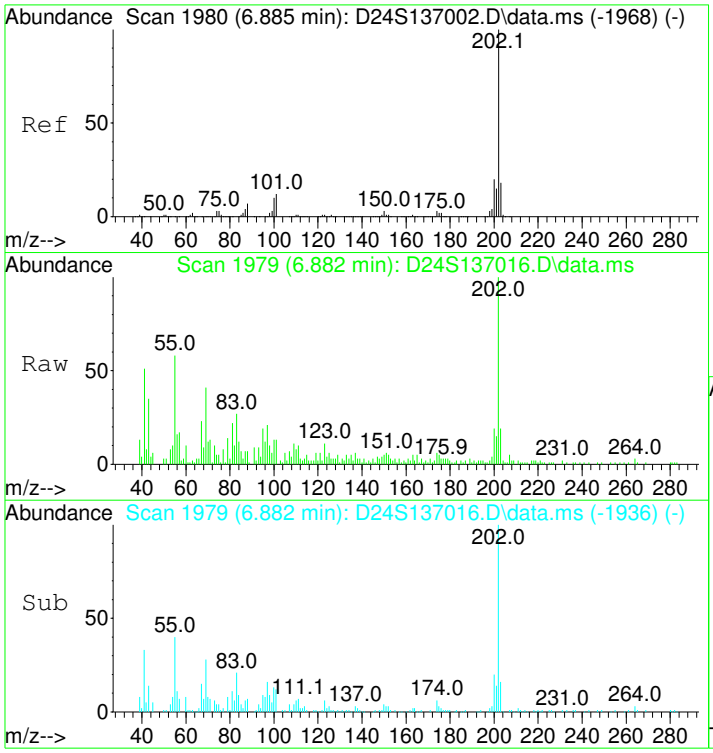
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-D4	3.280	152	85896	40.00	ug/ml	-0.03
19) NAPHTHALENE-d8	4.014	136	330804	40.00	ug/ml	-0.03
35) ACENAPHTHENE-D10	5.088	164	186456	40.00	ug/ml	-0.03
58) PHENANTHRENE-D10	6.014	188	329701	40.00	ug/ml	-0.03
71) CHRYSENE-D12	8.481	240	185421	40.00	ug/ml	-0.06
80) PERYLENE-D12	11.040	264	195240	40.00	ug/ml	-0.06
System Monitoring Compounds						
2) 2-Fluorophenol	2.613	112	263456	125.90	ug/ml	-0.03
Spiked Amount 200.000	Range 30 - 130		Recovery = 62.95%			
3) Phenol-d6	3.072	99	424353	127.86	ug/ml	-0.03
Spiked Amount 200.000	Range 30 - 130		Recovery = 63.93%			
20) Nitrobenzene-d5	3.592	82	218753	71.38	ug/ml	-0.03
Spiked Amount 100.000	Range 30 - 130		Recovery = 71.38%			
36) 2-Fluorobiphenyl	4.658	172	396793	69.36	ug/ml	-0.03
Spiked Amount 100.000	Range 30 - 130		Recovery = 69.36%			
37) 2,4,6-Tribromophenol	5.579	330	100001	102.89	ug/ml	-0.03
Spiked Amount 200.000	Range 30 - 130		Recovery = 51.44%			
72) Terphenyl-d14	7.204	244	354219	94.67	ug/ml	-0.04
Spiked Amount 100.000	Range 30 - 130		Recovery = 94.67%			
Target Compounds						Qvalue
70) Flouranthene	6.882	202	16551	1.63	ug/ml	90
74) Pyrene	7.083	202	18737	2.87	ug/ml	90
77) Benzo(a)anthracene	8.471	228	6862	1.06	ug/ml	89
78) Chrysene	8.520	228	9535	1.57	ug/ml	85
82) Benzo(b)fluoranthene	10.294	252	11051	1.66	ug/ml	82
84) Benzo(a)pyrene	10.927	252	8683	1.50	ug/ml	74
85) Indeno(1,2,3-cd)pyrene	12.997	276	5301	1.12	ug/ml	84
87) Benzo(g,h,i)perylene	13.389	276	7611	1.70	ug/ml	78

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\D051624\
Data File : D24S137016.D
Acq On : 16 May 2024 5:14 pm
Operator : BGL
Sample : 24E1437-04 Inst : GCMSSV4
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 23 12:27:58 2024
Quant Method : C:\MSDCHEM\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Wed Apr 24 09:02:55 2024
Response via : Initial Calibration

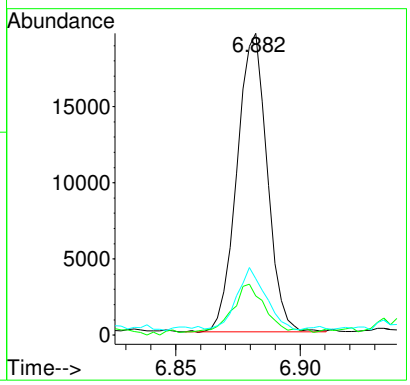


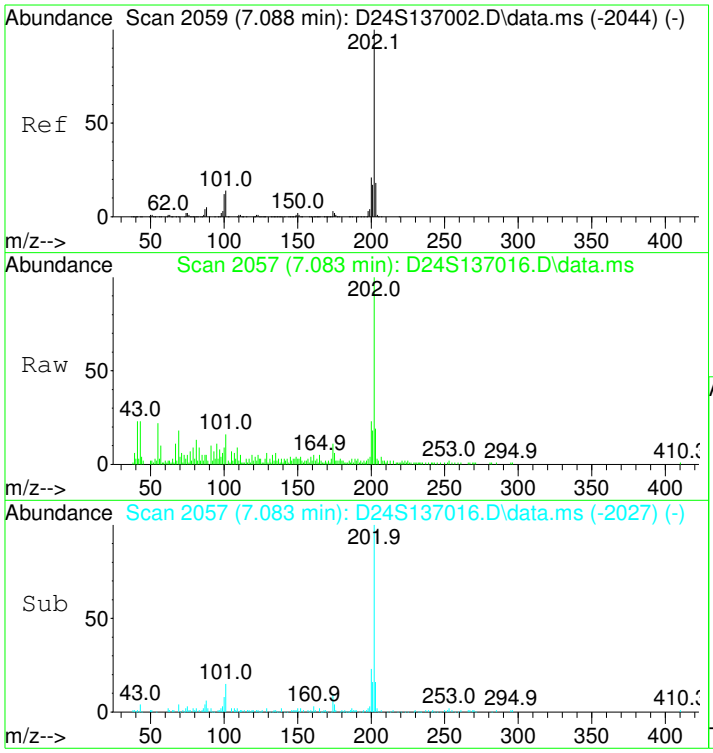


#70
Flouranthene
Concen: 1.63 ug/ml
RT: 6.882 min Scan# 1979
Delta R.T. -0.040 min
Lab File: D24S137016.D
Acq: 16 May 2024 5:14 pm

Tgt Ion:202 Resp: 16551

Ion	Ratio	Lower	Upper
202	100		
101	18.2	0.0	30.9
203	19.6	0.0	37.5

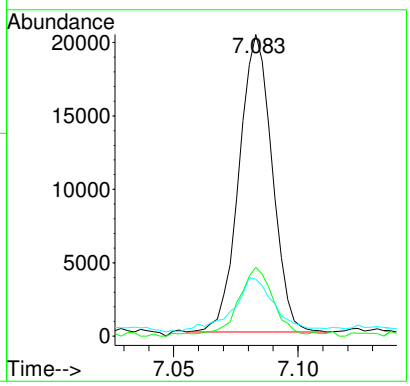


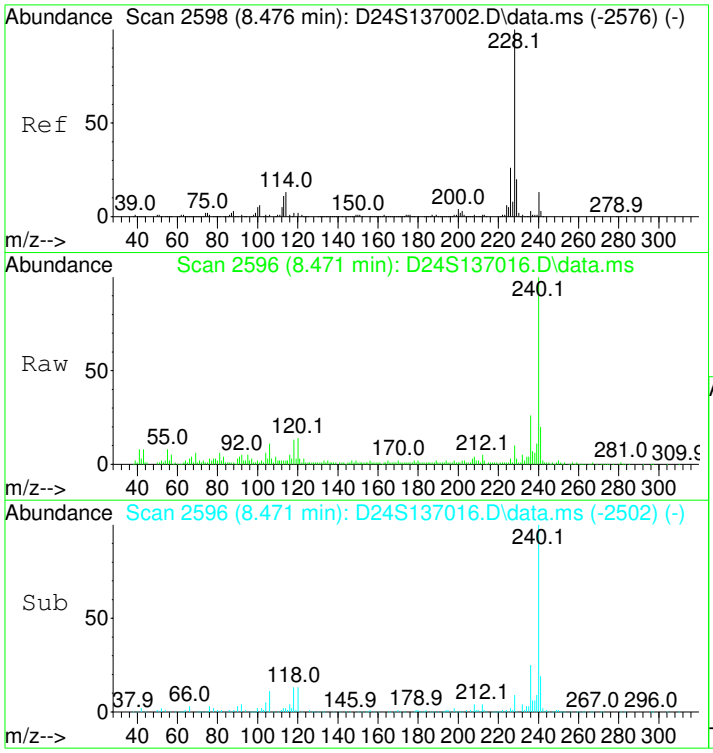


#74
Pyrene
Concen: 2.87 ug/ml
RT: 7.083 min Scan# 2057
Delta R.T. -0.042 min
Lab File: D24S137016.D
Acq: 16 May 2024 5:14 pm

Tgt Ion:202 Resp: 18737

Ion	Ratio	Lower	Upper
202	100		
200	25.0	0.8	40.8
203	23.5	0.0	38.3

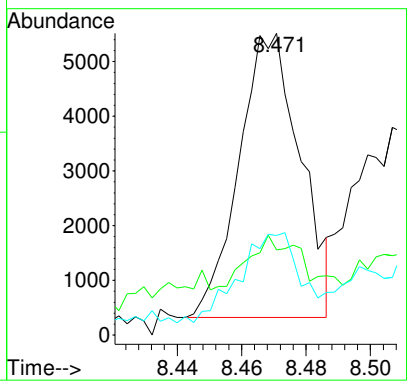


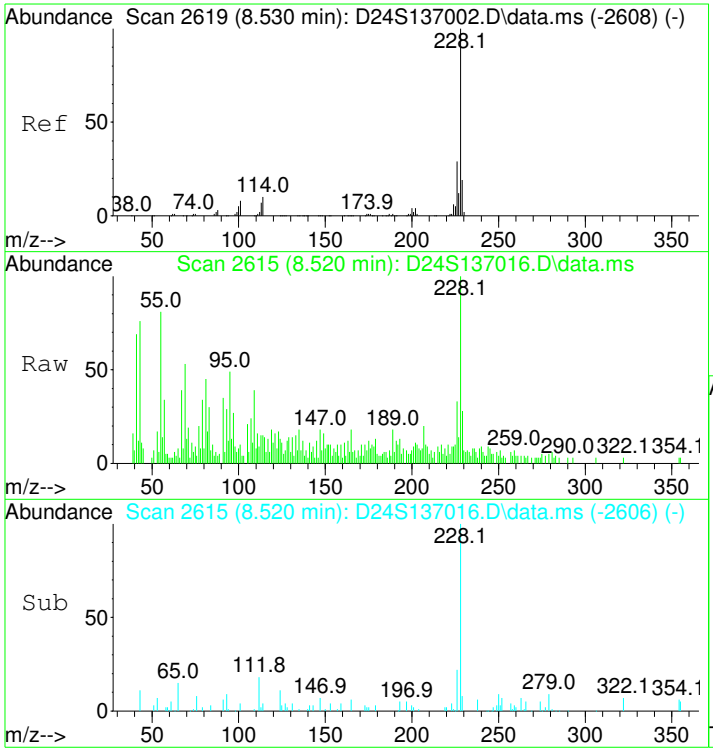


#77
Benzo(a)anthracene
Concen: 1.06 ug/ml
RT: 8.471 min Scan# 2596
Delta R.T. -0.049 min
Lab File: D24S137016.D
Acq: 16 May 2024 5:14 pm

Tgt Ion:228 Resp: 6862

Ion	Ratio	Lower	Upper
228	100		
229	14.3	0.0	39.7
226	31.3	5.7	45.7

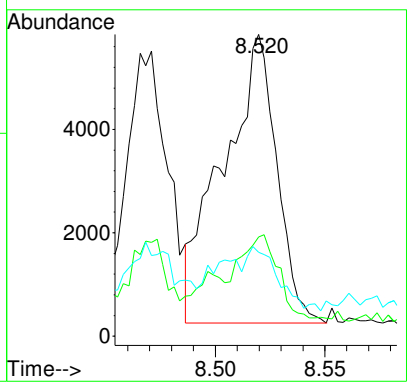


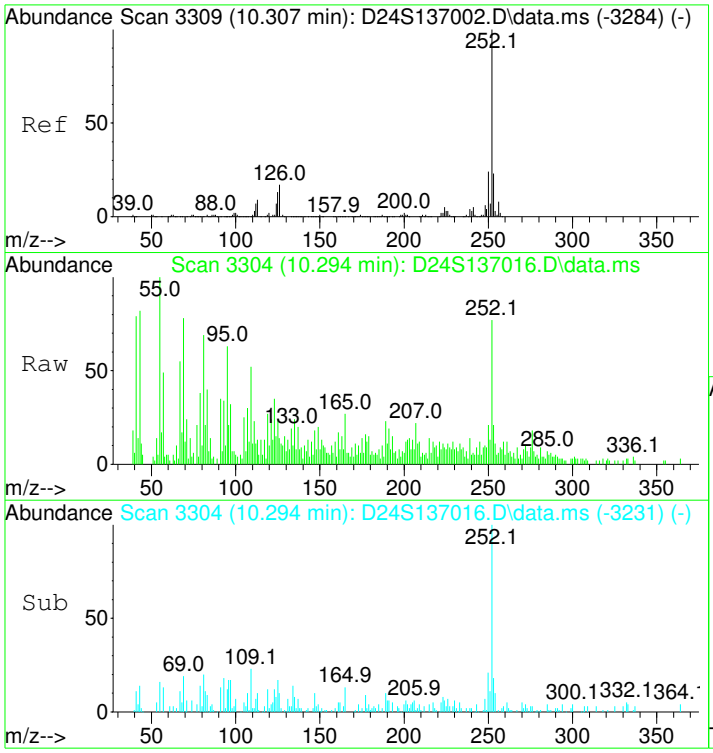


#78
Chrysene
Concen: 1.57 ug/ml
RT: 8.520 min Scan# 2615
Delta R.T. -0.058 min
Lab File: D24S137016.D
Acq: 16 May 2024 5:14 pm

Tgt Ion:228 Resp: 9535

Ion	Ratio	Lower	Upper
228	100		
226	23.5	9.5	49.5
229	10.4	0.0	39.6

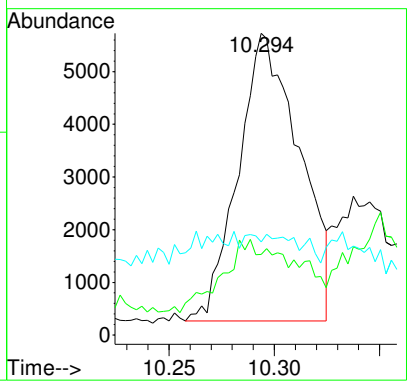


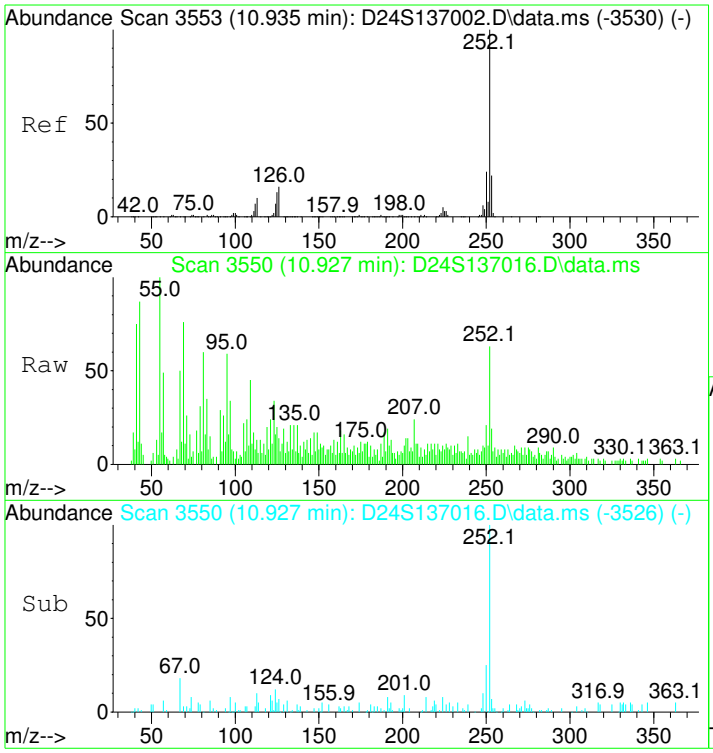


#82
Benzo(b)fluoranthene
Concen: 1.66 ug/ml
RT: 10.294 min Scan# 3304
Delta R.T. -0.063 min
Lab File: D24S137016.D
Acq: 16 May 2024 5:14 pm

Tgt Ion:252 Resp: 11051

Ion	Ratio	Lower	Upper
252	100		
253	12.1	4.0	44.0
125	9.3	0.0	32.1

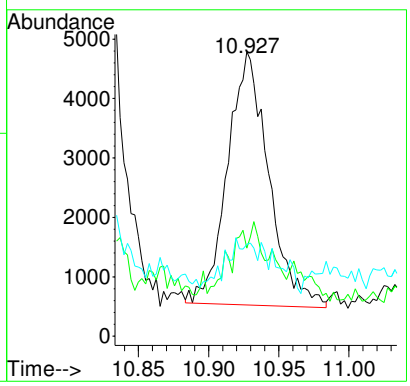


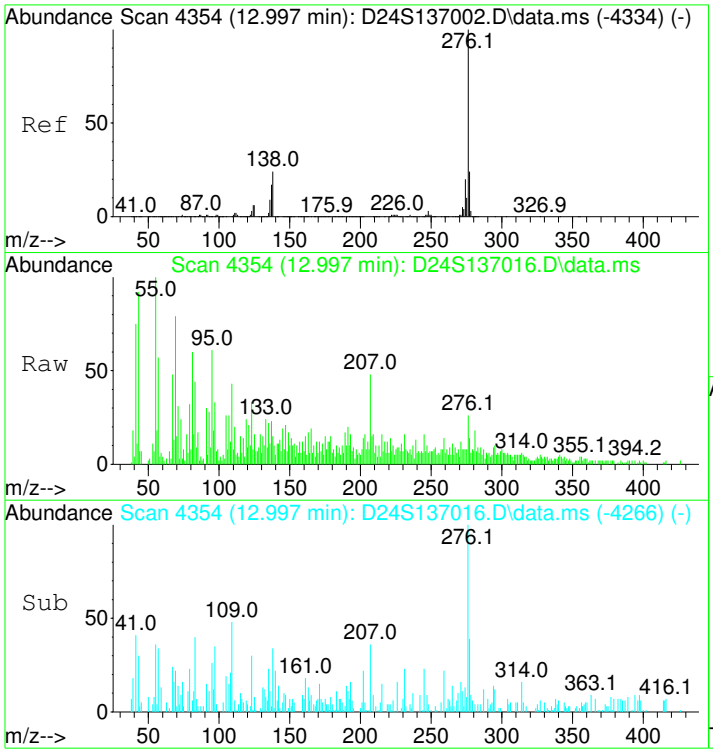


#84
Benzo(a)pyrene
Concen: 1.50 ug/ml
RT: 10.927 min Scan# 3550
Delta R.T. -0.058 min
Lab File: D24S137016.D
Acq: 16 May 2024 5:14 pm

Tgt Ion:252 Resp: 8683

Ion	Ratio	Lower	Upper
252	100		
253	8.6	2.0	42.0
125	3.4	0.0	31.6

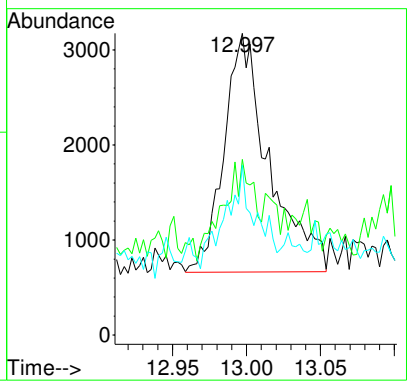


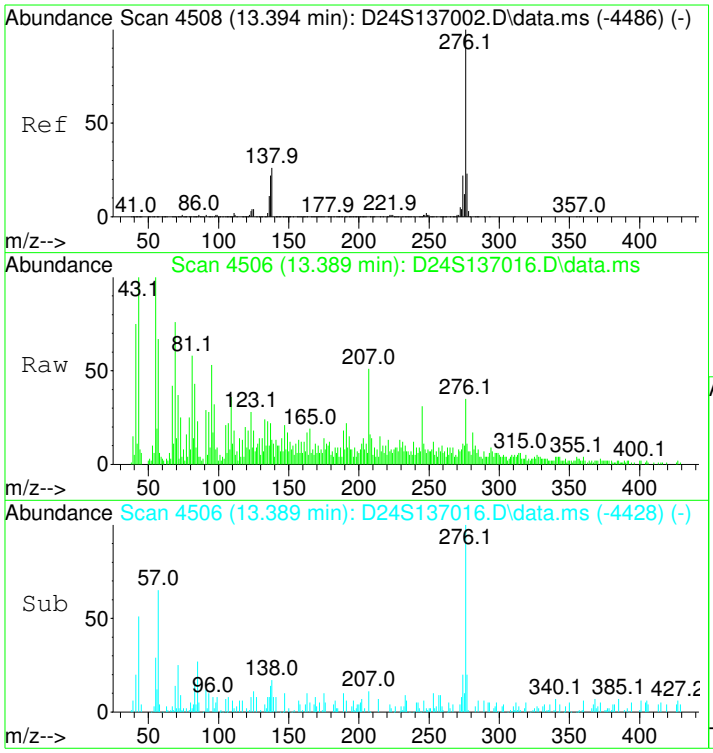


#85
Indeno(1,2,3-cd)pyrene
Concen: 1.12 ug/ml
RT: 12.997 min Scan# 4354
Delta R.T. -0.035 min
Lab File: D24S137016.D
Acq: 16 May 2024 5:14 pm

Tgt Ion:276 Resp: 5301

Ion	Ratio	Lower	Upper
276	100		
138	12.0	1.7	41.7
277	29.4	3.7	43.7

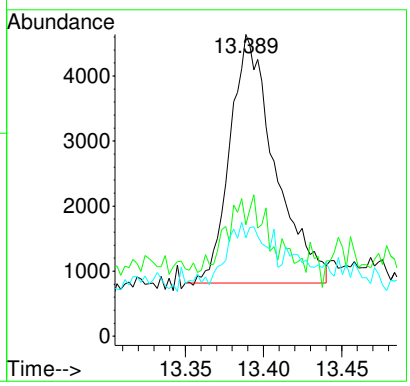




#87
Benzo(g,h,i)perylene
Concen: 1.70 ug/ml
RT: 13.389 min Scan# 4506
Delta R.T. -0.040 min
Lab File: D24S137016.D
Acq: 16 May 2024 5:14 pm

Tgt Ion:276 Resp: 7611

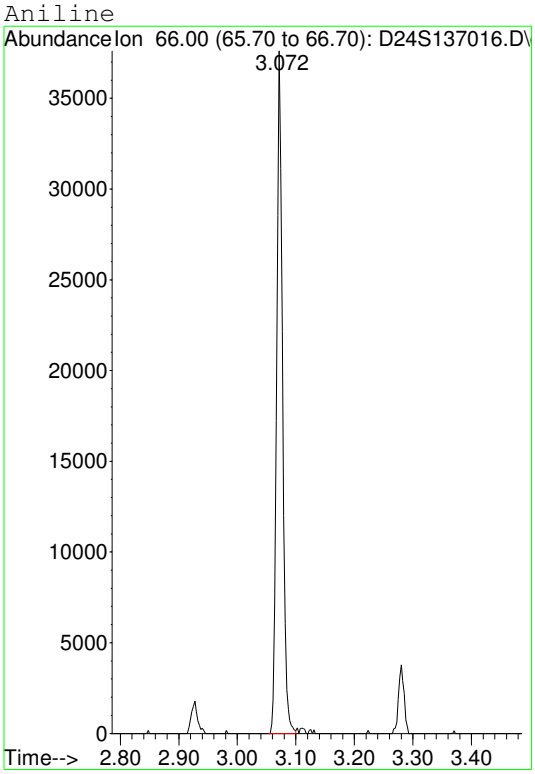
Ion	Ratio	Lower	Upper
276	100		
138	13.6	3.2	43.2
277	11.6	3.3	43.3



Data Path : C:\msdchem\1\DATA\D051624\
Data File : D24S137016.D
Acq On : 16 May 2024 5:14 pm
Operator : BGL
Sample : 24E1437-04
Misc :

Quant Time : Thu May 23 12:27:58 2024
Quant Method : C:\MSDCHEM\1\METHODS\BND02154.M
QLast Update : Wed Apr 24 09:02:55 2024

Original Integration
Aniline



Original Int. Results

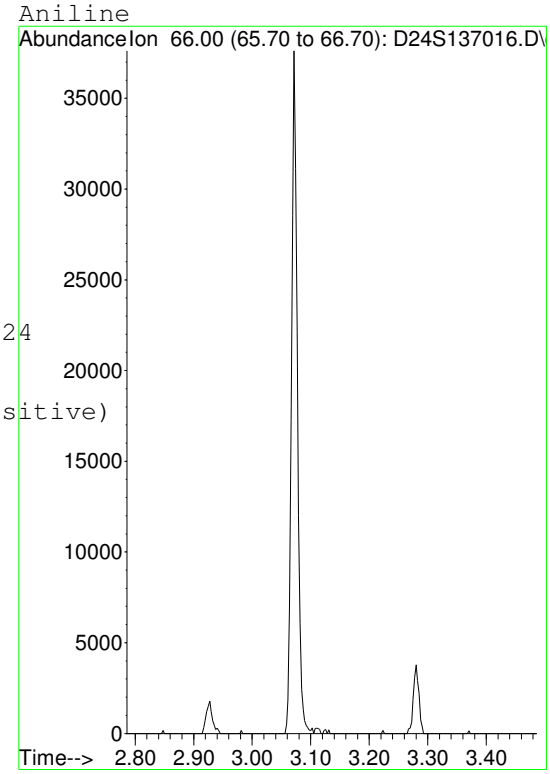
RT : 3.07
Area : 26229
Amount: 16.6943

Manual Int. Results

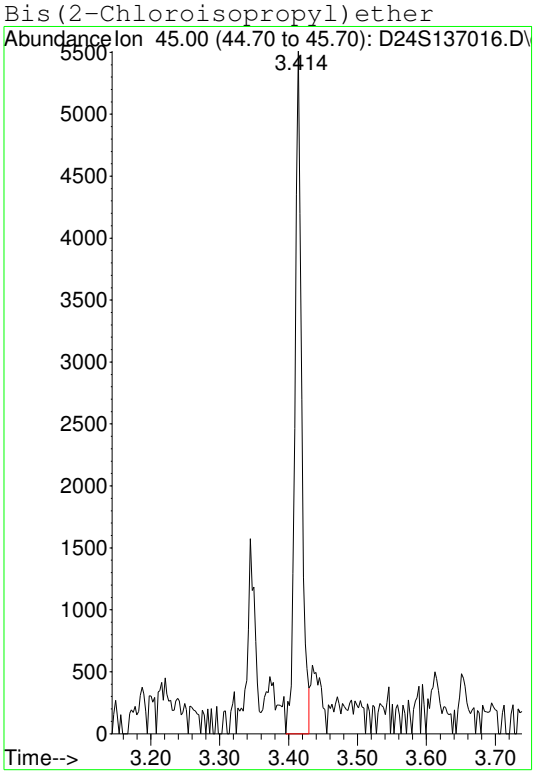
Thu May 23 12:27:37 2024

MIuser: BGL
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
Aniline



Original Integration
Bis(2-Chloroisopropyl)ether



Original Int. Results

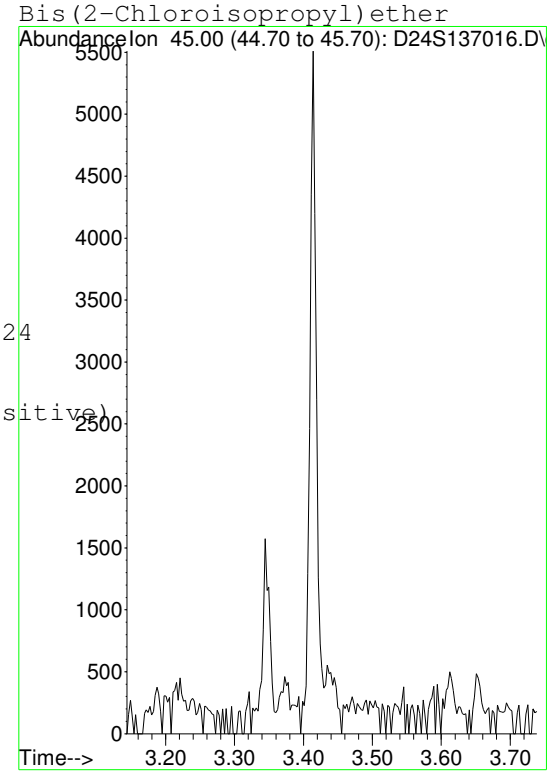
RT : 3.41
Area : 3752
Amount: 1.46008

Manual Int. Results

Thu May 23 12:27:39 2024

MIuser: BGL
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

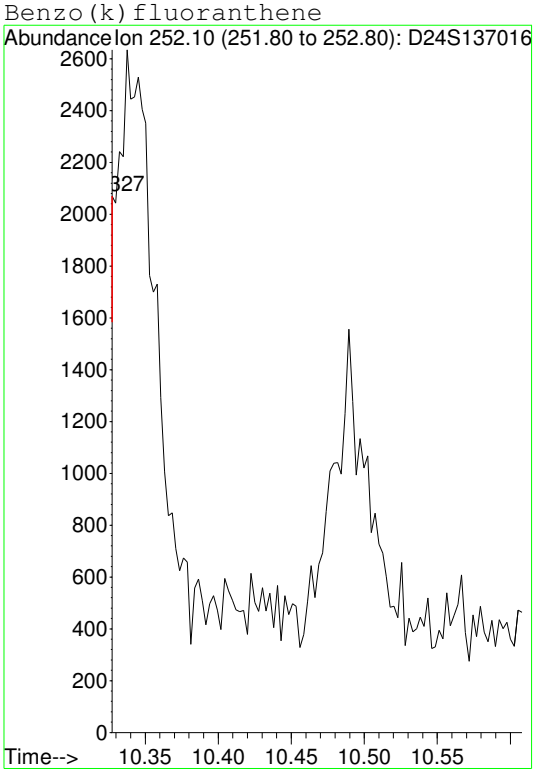
Manual Integration
Bis(2-Chloroisopropyl)ether



Data Path : C:\msdchem\1\DATA\D051624\
Data File : D24S137016.D
Acq On : 16 May 2024 5:14 pm
Operator : BGL
Sample : 24E1437-04
Misc :

Quant Time : Thu May 23 12:27:58 2024
Quant Method : C:\MSDCHEM\1\METHODS\BND02154.M
QLast Update : Wed Apr 24 09:02:55 2024

Original Integration
Benzo(k)fluoranthene



Original Int. Results

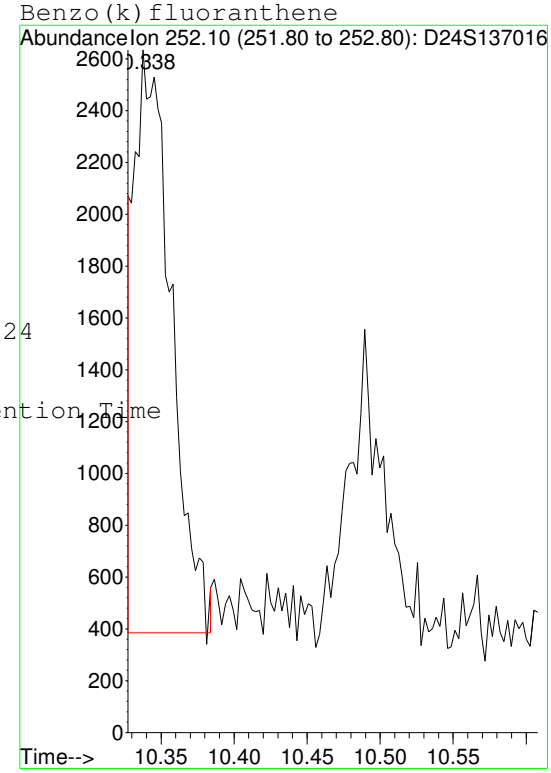
RT : 10.29
Area : 5881
Amount: 1.00724

Manual Int. Results

Thu May 23 12:27:58 2024

MIuser: BGL
Reason: Incorrect Retention Time
RT : 10.34
Area : 4214
Amount: 0.721734

Manual Integration
Benzo(k)fluoranthene



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D051624\
Data File : D24S137016.D
Acq On : 16 May 2024 5:14 pm
Operator : BGL
Sample : 24E1437-04 Inst : GCMSSV4
Misc :
ALS Vial : 16 Sample Multiplier: 1

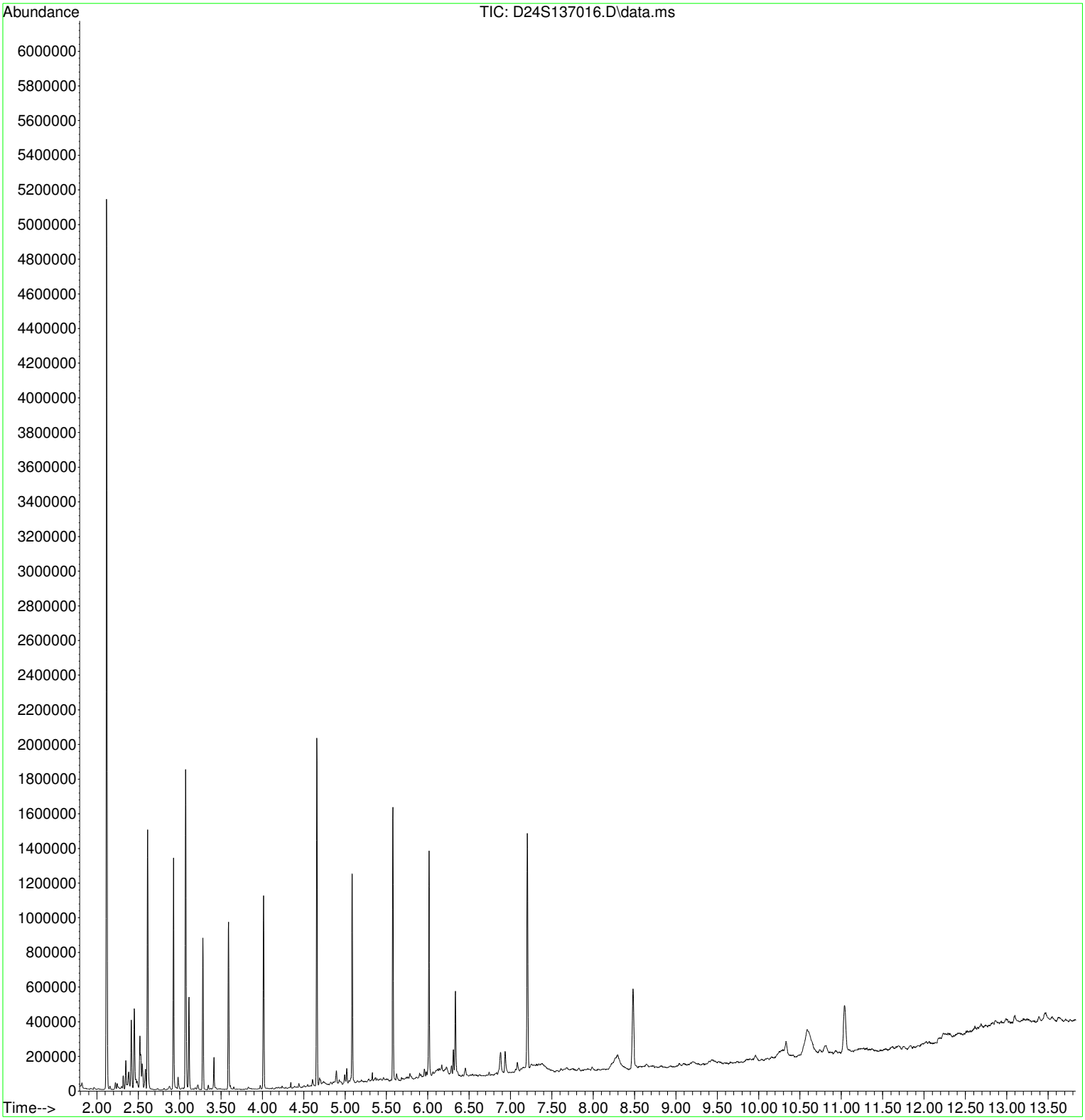
Quant Time: May 23 10:25:32 2024
Quant Method : C:\msdchem\1\METHODS\NCD02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270STD SVMS4 N.C. apx2 extra compds PulseWool
QLast Update : Thu May 23 10:19:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-D4...	3.280	152	85896	40.00	ug/ml	-0.02
6) NAPHTHALENE-d8 (2)	4.014	136	330804	40.00	ug/ml	-0.03
10) ACENAPHTHENE-D10 (2)	5.088	164	186456	40.00	ug/ml	0.00
16) PHENANTHRENE-D10 (2)	6.014	188	329701	40.00	ug/ml	0.00
17) CHRYSENE-D12 (2)	8.481	240	185421	40.00	ug/ml	-0.05
19) PERYLENE-D12 (2)	11.040	264	195240	40.00	ug/ml	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	2.613	112	263456	0.00	ug/ml	-0.12
Spiked Amount 200.000	Range 30 - 130		Recovery =	0.00%#		
3) Phenol-d6	3.072	99	424353	0.00	ug/ml	-0.12
Spiked Amount 200.000	Range 30 - 130		Recovery =	0.00%#		
7) Nitrobenzene-d5	3.592	82	218753	0.00	ug/ml	0.00
Spiked Amount 100.000	Range 30 - 130		Recovery =	0.00%#		
11) 2-Fluorobiphenyl	4.658	172	396793	0.00	ug/ml	0.02
Spiked Amount 100.000	Range 30 - 130		Recovery =	0.00%#		
12) 2,4,6-Tribromophenol	0.000	330	0	0.00	ug/ml	
Spiked Amount 200.000	Range 30 - 130		Recovery =	0.00%#		
18) Terphenyl-d14	7.204	244	354219	0.00	ug/ml	-0.10
Spiked Amount 100.000	Range 30 - 130		Recovery =	0.00%#		
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\D051624\
Data File : D24S137016.D
Acq On : 16 May 2024 5:14 pm
Operator : BGL
Sample : 24E1437-04 Inst : GCMSSV4
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 23 10:25:32 2024
Quant Method : C:\msdchem\1\METHODS\NCD02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270STD SVMS4 N.C. apx2 extra compds PulseWool
QLast Update : Thu May 23 10:19:14 2024
Response via : Initial Calibration



1 - FORM I
ANALYSIS DATA SHEET

SB1A

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-06	File ID:	D24S137017.D
Sampled:	05/08/24 14:19	Prepared:	05/12/24 07:21	Analyzed:	05/16/24 17:34
Solids:	72.51	Preparation:	SW-846 3546	Dilution:	1
Initial/Final:	30 g / 1 mL				
Batch:	B374087	Sequence:	S104909	Calibration:	2400207
				Instrument:	GCMSSV4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
58-90-2	2,3,4,6-Tetrachlorophenol		0.063	0.92	MS-09
1912-24-9	Atrazine		0.060	0.92	
100-52-7	Benzaldehyde		0.075	0.47	MS-09
92-52-4	Biphenyl		0.059	0.92	
105-60-2	Caprolactam		0.081	0.47	
83-32-9	Acenaphthene		0.045	0.23	
208-96-8	Acenaphthylene		0.042	0.23	
98-86-2	Acetophenone		0.049	0.47	
62-53-3	Aniline		0.081	0.47	MS-09
120-12-7	Anthracene		0.041	0.23	
56-55-3	Benzo(a)anthracene		0.038	0.23	
50-32-8	Benzo(a)pyrene		0.042	0.23	
205-99-2	Benzo(b)fluoranthene		0.038	0.23	
191-24-2	Benzo(g,h,i)perylene		0.067	0.23	MS-09
207-08-9	Benzo(k)fluoranthene		0.042	0.23	
111-91-1	Bis(2-chloroethoxy)methane		0.050	0.47	
111-44-4	Bis(2-chloroethyl)ether		0.067	0.47	
108-60-1	Bis(2-chloroisopropyl)ether		0.30	0.47	V-06
117-81-7	Bis(2-Ethylhexyl)phthalate		0.055	0.47	L-05, V-06
101-55-3	4-Bromophenylphenylether		0.043	0.47	
85-68-7	Butylbenzylphthalate		0.052	0.47	
86-74-8	Carbazole		0.047	0.23	
106-47-8	4-Chloroaniline		0.083	0.91	MS-09
59-50-7	4-Chloro-3-methylphenol		0.049	0.91	
91-58-7	2-Chloronaphthalene		0.041	0.47	
95-57-8	2-Chlorophenol		0.047	0.47	
7005-72-3	4-Chlorophenylphenylether		0.039	0.47	
218-01-9	Chrysene		0.042	0.23	
53-70-3	Dibenz(a,h)anthracene		0.065	0.23	
132-64-9	Dibenzofuran		0.042	0.47	

1 - FORM I
ANALYSIS DATA SHEET

SB1A

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-06	File ID:	D24S137017.D
Sampled:	05/08/24 14:19	Prepared:	05/12/24 07:21	Analyzed:	05/16/24 17:34
Solids:	72.51	Preparation:	SW-846 3546	Dilution:	1
Initial/Final:	30 g / 1 mL				
Batch:	B374087	Sequence:	S104909	Calibration:	2400207	Instrument:	GCMSSV4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
84-74-2	Di-n-butylphthalate		0.18	0.47	
91-94-1	3,3-Dichlorobenzidine		0.10	0.23	MS-09
120-83-2	2,4-Dichlorophenol		0.044	0.47	
84-66-2	Diethylphthalate		0.045	0.47	
105-67-9	2,4-Dimethylphenol		0.11	0.47	MS-09
131-11-3	Dimethylphthalate		0.044	0.47	
534-52-1	4,6-Dinitro-2-methylphenol		0.37	0.47	
51-28-5	2,4-Dinitrophenol		0.36	0.91	
121-14-2	2,4-Dinitrotoluene		0.047	0.47	
606-20-2	2,6-Dinitrotoluene		0.049	0.47	
117-84-0	Di-n-octylphthalate		0.066	0.47	V-20
206-44-0	Fluoranthene	0.071	0.038	0.23	MS-09, J
86-73-7	Fluorene		0.042	0.23	
118-74-1	Hexachlorobenzene		0.045	0.47	
87-68-3	Hexachlorobutadiene		0.042	0.47	
77-47-4	Hexachlorocyclopentadiene		0.31	0.47	-04, MS-09, V-0
67-72-1	Hexachloroethane		0.043	0.47	MS-09
193-39-5	Indeno(1,2,3-cd)pyrene		0.076	0.23	
78-59-1	Isophorone		0.050	0.47	
90-12-0	1-Methylnaphthalene		0.047	0.23	
91-57-6	2-Methylnaphthalene		0.040	0.23	
95-48-7	2-Methylphenol		0.063	0.47	
108-39-4/106-44	3/4-Methylphenol		0.062	0.47	
91-20-3	Naphthalene		0.082	0.23	
88-74-4	2-Nitroaniline		0.057	0.47	
99-09-2	3-Nitroaniline		0.097	0.47	
100-01-6	4-Nitroaniline		0.052	0.47	
98-95-3	Nitrobenzene		0.059	0.47	
88-75-5	2-Nitrophenol		0.046	0.47	
100-02-7	4-Nitrophenol		0.12	0.91	

1 - FORM I
ANALYSIS DATA SHEET

SB1A

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-06	File ID:	D24S137017.D
Sampled:	05/08/24 14:19	Prepared:	05/12/24 07:21	Analyzed:	05/16/24 17:34
Solids:	72.51	Preparation:	SW-846 3546	Dilution:	1
Initial/Final:	30 g / 1 mL				
Batch:	B374087	Sequence:	S104909	Calibration:	2400207
Instrument:	GCMSSV4				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
86-30-6	N-Nitrosodiphenylamine/Diphenylamine		0.059	0.47	
621-64-7	N-Nitrosodi-n-propylamine		0.065	0.47	
87-86-5	Pentachlorophenol		0.17	0.47	MS-09, V-05
85-01-8	Phenanthrene		0.042	0.23	
108-95-2	Phenol		0.059	0.47	
129-00-0	Pyrene	0.082	0.049	0.23	J
110-86-1	Pyridine		0.055	0.47	MS-09
95-94-3	1,2,4,5-Tetrachlorobenzene		0.046	0.47	
95-95-4	2,4,5-Trichlorophenol		0.048	0.47	
88-06-2	2,4,6-Trichlorophenol		0.044	0.47	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D051624\
Data File : D24S137017.D
Acq On : 16 May 2024 5:34 pm
Operator : BGL
Sample : 24E1437-06 Inst : GCMSSV4
Misc :
ALS Vial : 17 Sample Multiplier: 1

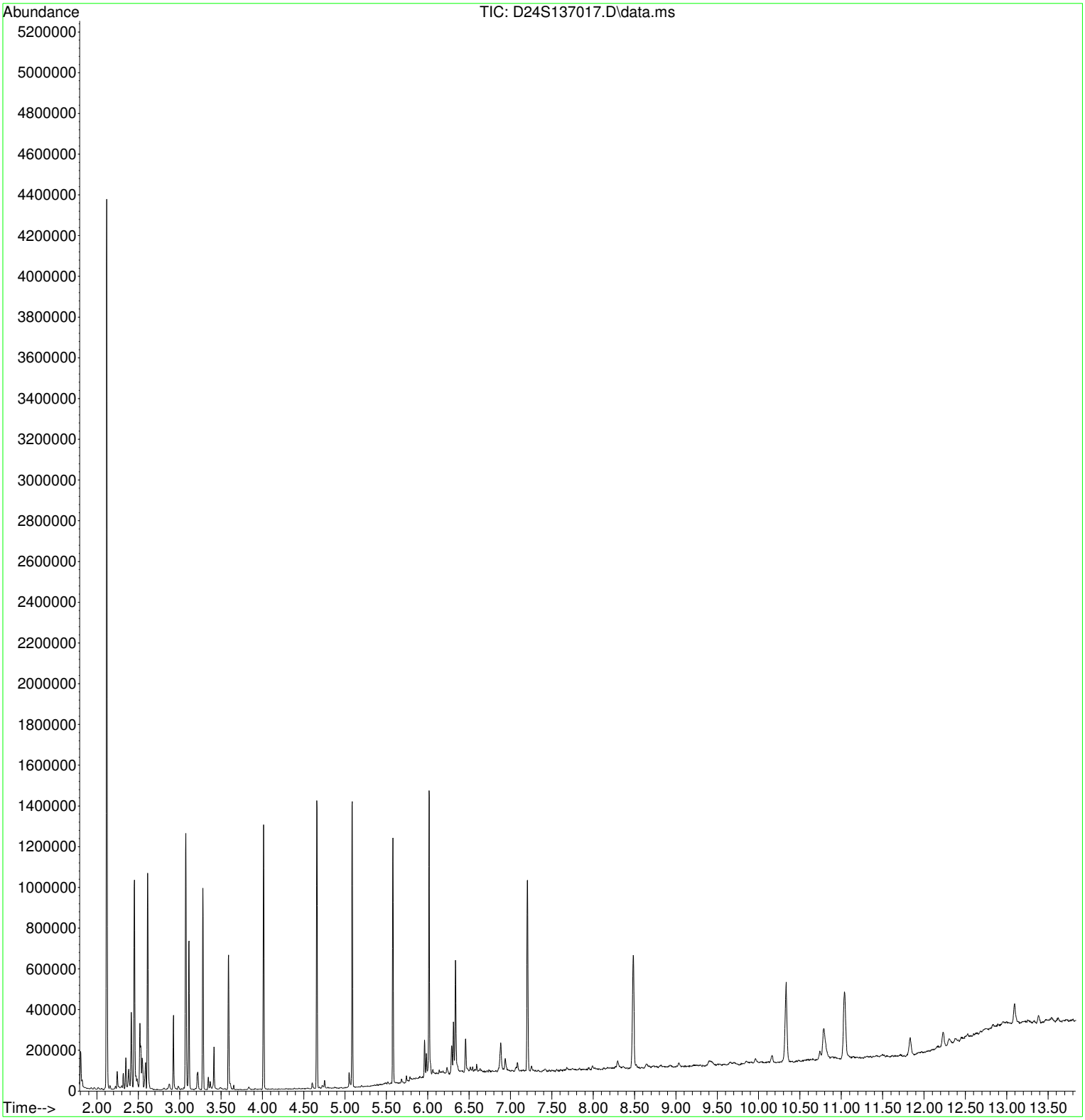
Quant Time: May 23 12:30:07 2024
Quant Method : C:\MSDCHEM\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Wed Apr 24 09:02:55 2024
Response via : Initial Calibration

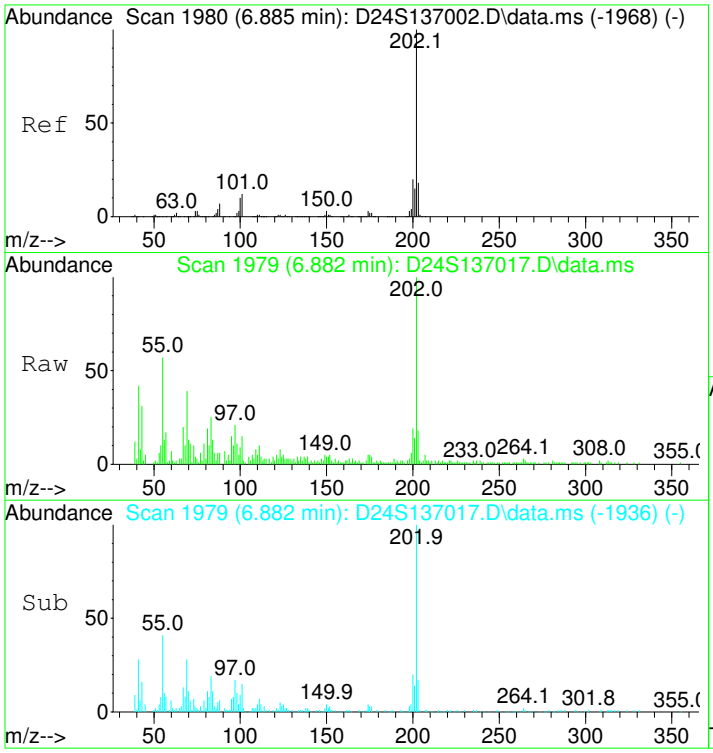
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-D4	3.280	152	102427	40.00	ug/ml	-0.03
19) NAPHTHALENE-d8	4.014	136	387535	40.00	ug/ml	-0.03
35) ACENAPHTHENE-D10	5.088	164	222048	40.00	ug/ml	-0.03
58) PHENANTHRENE-D10	6.015	188	378353	40.00	ug/ml	-0.03
71) CHRYSENE-D12	8.484	240	228897	40.00	ug/ml	-0.06
80) PERYLENE-D12	11.041	264	224351	40.00	ug/ml	-0.06
System Monitoring Compounds						
2) 2-Fluorophenol	2.613	112	201498	80.75	ug/ml	-0.03
Spiked Amount 200.000	Range 30 - 130		Recovery = 40.38%			
3) Phenol-d6	3.074	99	307718	77.75	ug/ml	-0.03
Spiked Amount 200.000	Range 30 - 130		Recovery = 38.88%			
20) Nitrobenzene-d5	3.592	82	154722	43.10	ug/ml	-0.03
Spiked Amount 100.000	Range 30 - 130		Recovery = 43.10%			
36) 2-Fluorobiphenyl	4.660	172	295872	43.43	ug/ml	-0.03
Spiked Amount 100.000	Range 30 - 130		Recovery = 43.43%			
37) 2,4,6-Tribromophenol	5.579	330	78441	67.77	ug/ml	-0.03
Spiked Amount 200.000	Range 30 - 130		Recovery = 33.88%			
72) Terphenyl-d14	7.207	244	268766	58.19	ug/ml	-0.04
Spiked Amount 100.000	Range 30 - 130		Recovery = 58.19%			
Target Compounds						Qvalue
70) Flouranthene	6.882	202	17973	1.54	ug/ml	94
74) Pyrene	7.086	202	14437	1.79	ug/ml	89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\D051624\
Data File : D24S137017.D
Acq On : 16 May 2024 5:34 pm
Operator : BGL
Sample : 24E1437-06 Inst : GCMSSV4
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 23 12:30:07 2024
Quant Method : C:\MSDCHEM\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Wed Apr 24 09:02:55 2024
Response via : Initial Calibration

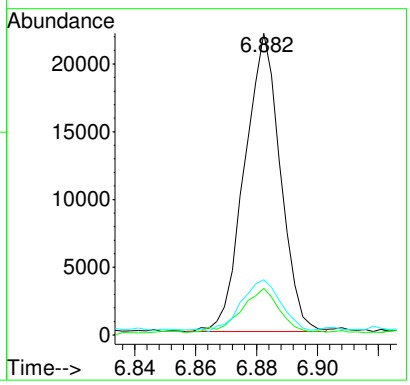


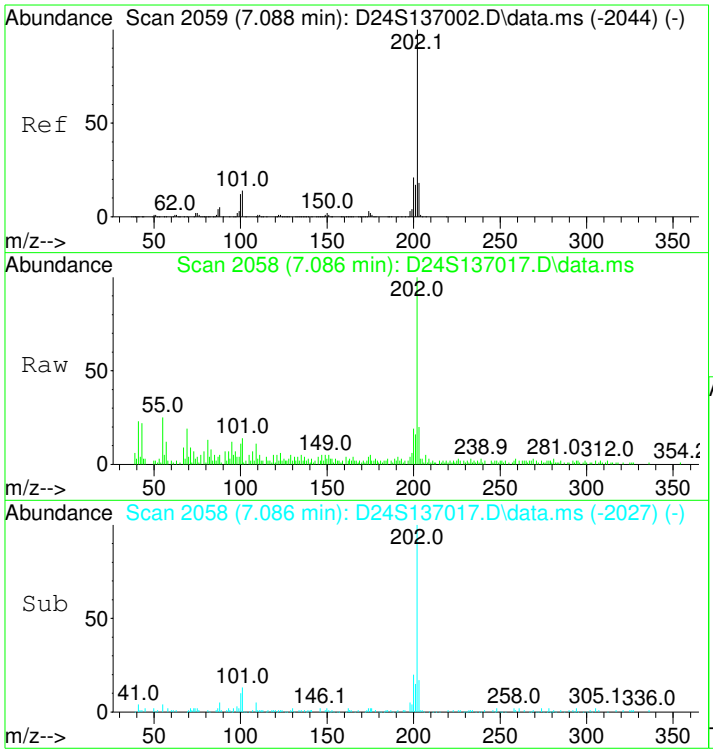


#70
Flouranthene
Concen: 1.54 ug/ml
RT: 6.882 min Scan# 1979
Delta R.T. -0.040 min
Lab File: D24S137017.D
Acq: 16 May 2024 5:34 pm

Tgt Ion:202 Resp: 17973

Ion	Ratio	Lower	Upper
202	100		
101	15.9	0.0	30.9
203	18.1	0.0	37.5

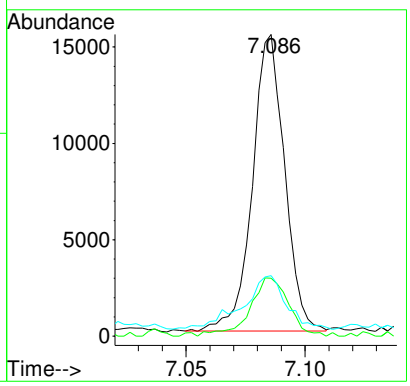




#74
Pyrene
Concen: 1.79 ug/ml
RT: 7.086 min Scan# 2058
Delta R.T. -0.040 min
Lab File: D24S137017.D
Acq: 16 May 2024 5:34 pm

Tgt Ion:202 Resp: 14437

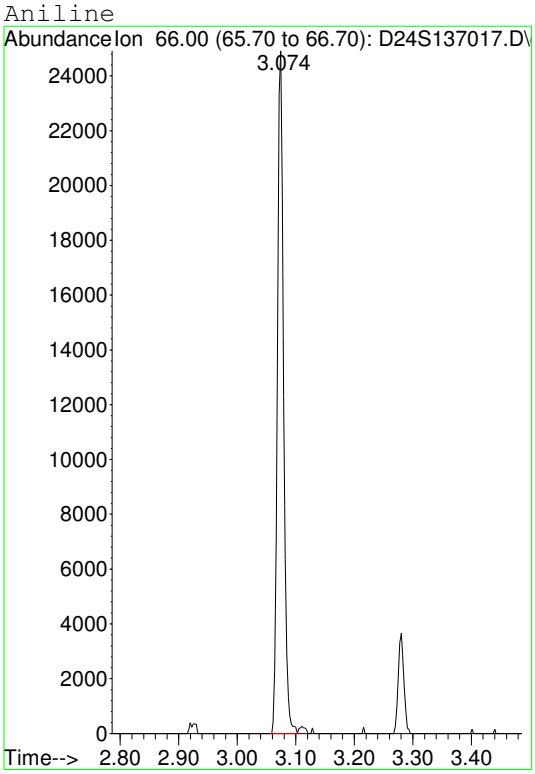
Ion	Ratio	Lower	Upper
202	100		
200	23.8	0.8	40.8
203	25.3	0.0	38.3



Data Path : C:\msdchem\1\DATA\D051624\
Data File : D24S137017.D
Acq On : 16 May 2024 5:34 pm
Operator : BGL
Sample : 24E1437-06
Misc :

Quant Time : Thu May 23 12:30:07 2024
Quant Method : C:\MSDCHEM\1\METHODS\BND02154.M
QLast Update : Wed Apr 24 09:02:55 2024

Original Integration
Aniline



Original Int. Results

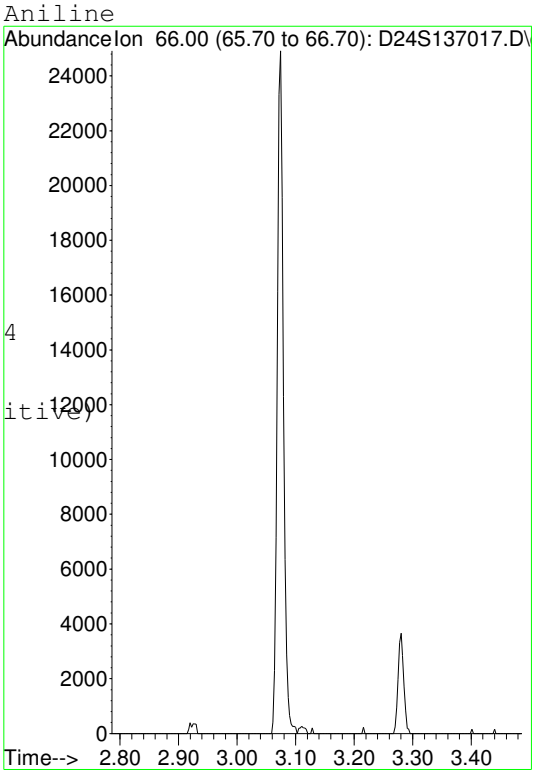
RT : 3.07
Area : 18293
Amount: 9.76405

Manual Int. Results

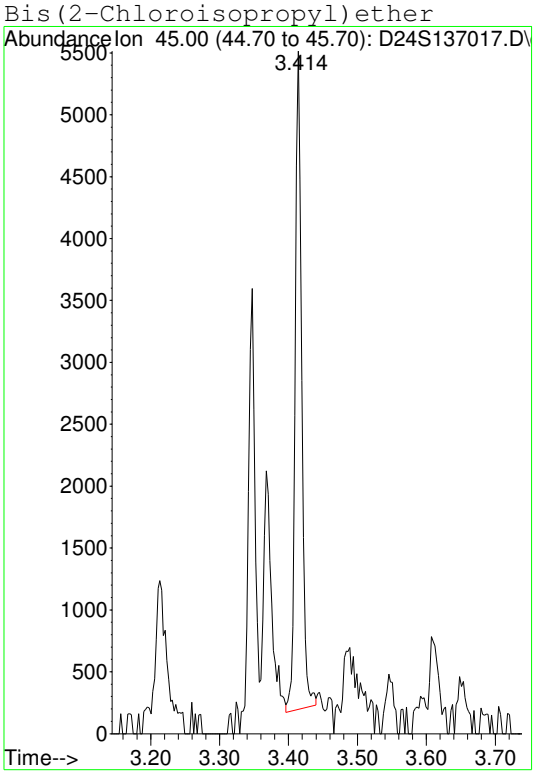
Thu May 23 12:29:46 2024

MIuser: BGL
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
Aniline



Original Integration
Bis(2-Chloroisopropyl)ether



Original Int. Results

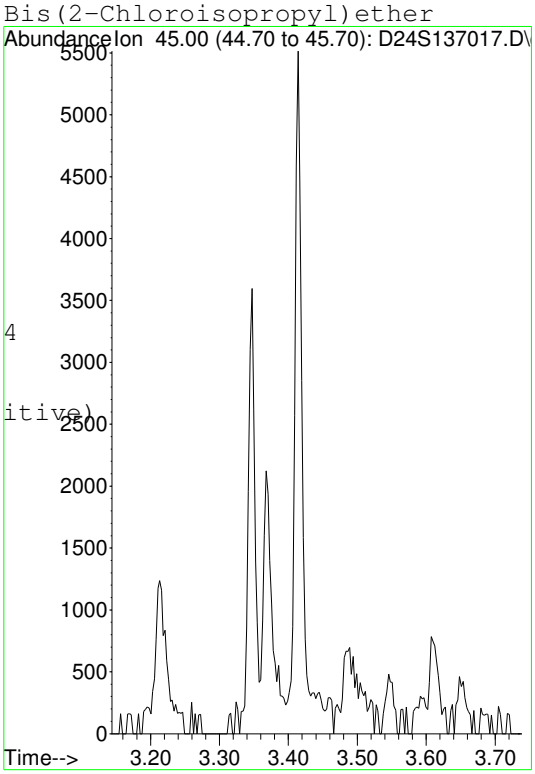
RT : 3.41
Area : 3535
Amount: 1.15362

Manual Int. Results

Thu May 23 12:29:48 2024

MIuser: BGL
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

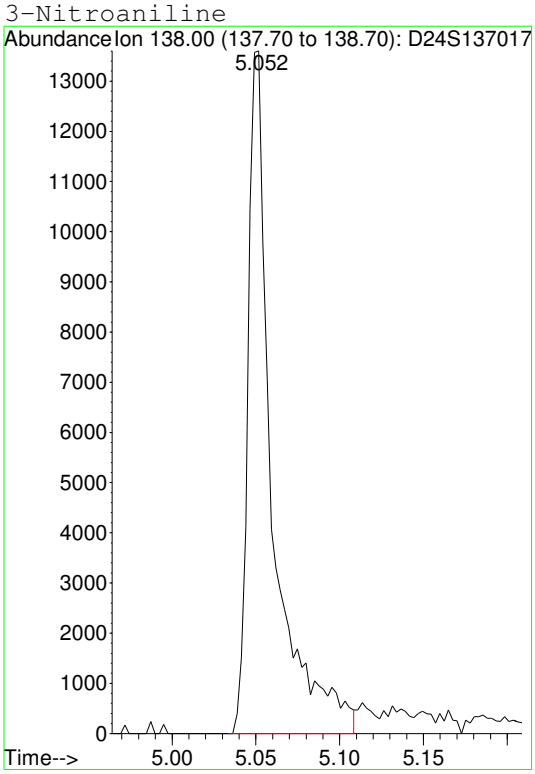
Manual Integration
Bis(2-Chloroisopropyl)ether



Data Path : C:\msdchem\1\DATA\D051624\
Data File : D24S137017.D
Acq On : 16 May 2024 5:34 pm
Operator : BGL
Sample : 24E1437-06
Misc :

Quant Time : Thu May 23 12:30:07 2024
Quant Method : C:\MSDCHEM\1\METHODS\BND02154.M
QLast Update : Wed Apr 24 09:02:55 2024

Original Integration
3-Nitroaniline



Original Int. Results

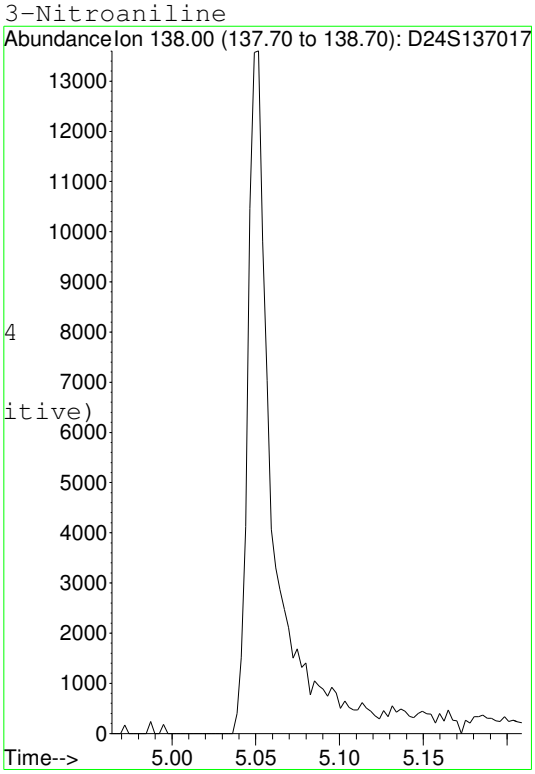
RT : 5.05
Area : 13825
Amount: 8.69787

Manual Int. Results

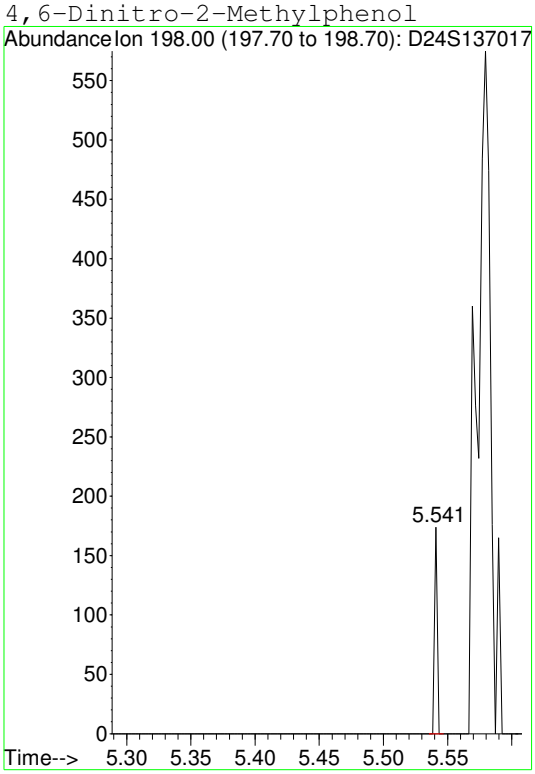
Thu May 23 12:29:52 2024

MIuser: BGL
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
3-Nitroaniline



Original Integration
4,6-Dinitro-2-Methylphenol



Original Int. Results

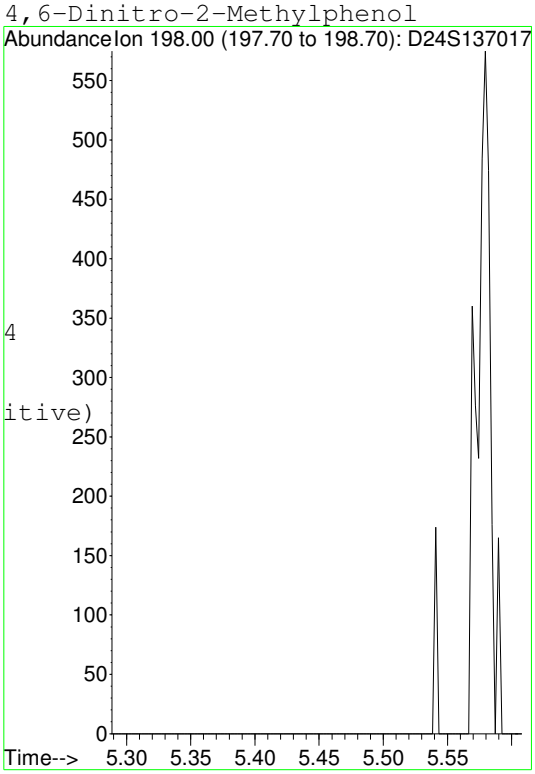
RT : 5.54
Area : 27
Amount: 6.65623

Manual Int. Results

Thu May 23 12:29:54 2024

MIuser: BGL
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

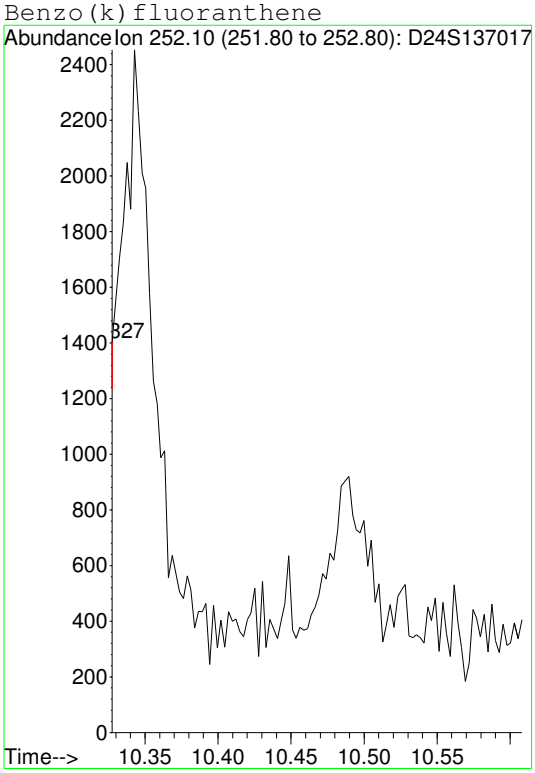
Manual Integration
4,6-Dinitro-2-Methylphenol



Data Path : C:\msdchem\1\DATA\D051624\
Data File : D24S137017.D
Acq On : 16 May 2024 5:34 pm
Operator : BGL
Sample : 24E1437-06
Misc :

Quant Time : Thu May 23 12:30:07 2024
Quant Method : C:\MSDCHEM\1\METHODS\BND02154.M
QLast Update : Wed Apr 24 09:02:55 2024

Original Integration
Benzo(k)fluoranthene



Original Int. Results

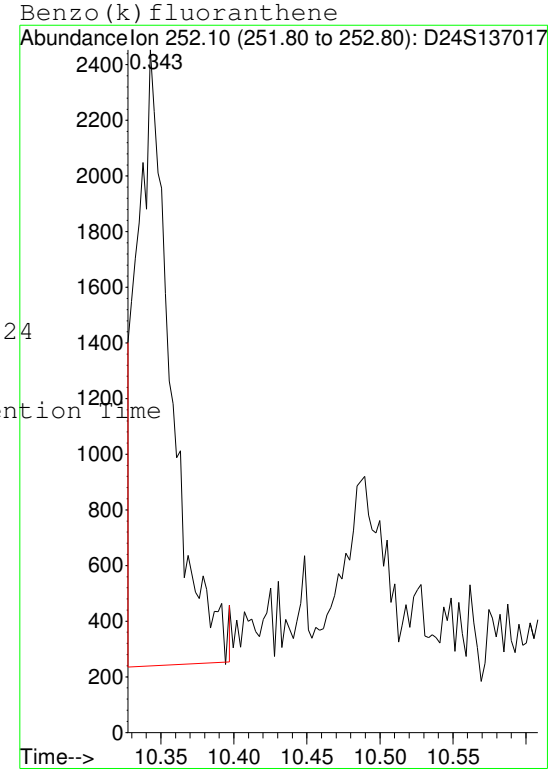
RT : 10.30
Area : 3820
Amount: 0.569359

Manual Int. Results

Thu May 23 12:30:07 2024

MIuser: BGL
Reason: Incorrect Retention Time
RT : 10.34
Area : 3603
Amount: 0.537016

Manual Integration
Benzo(k)fluoranthene



Data Path : C:\msdchem\1\DATA\D051624\
Data File : D24S137017.D
Acq On : 16 May 2024 5:34 pm
Operator : BGL
Sample : 24E1437-06 Inst : GCMSSV4
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 23 10:25:34 2024
Quant Method : C:\msdchem\1\METHODS\NCD02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270STD SVMS4 N.C. apx2 extra compds PulseWool
QLast Update : Thu May 23 10:19:14 2024
Response via : Initial Calibration

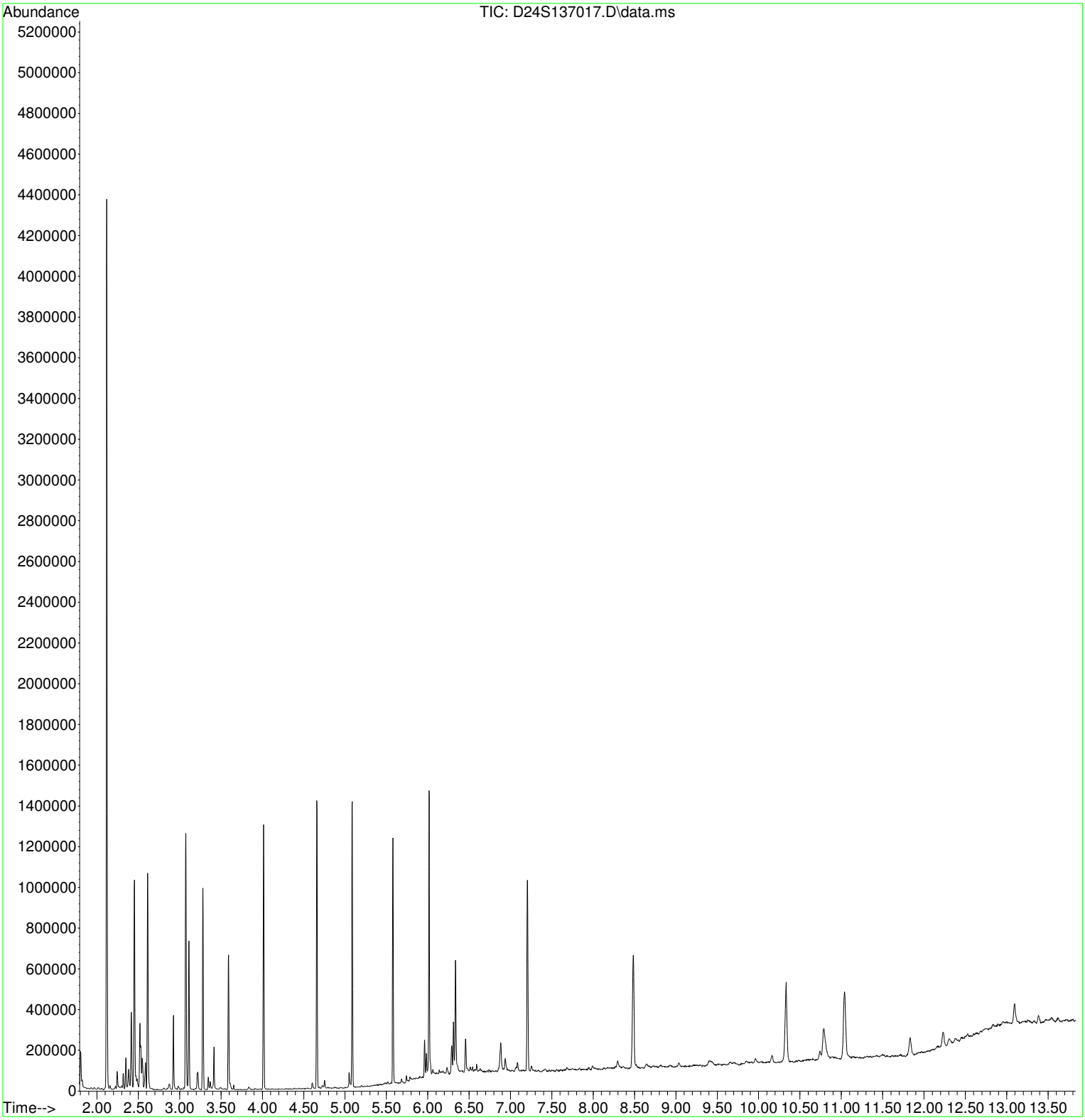
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-D4...	3.280	152	102427	40.00	ug/ml	-0.02
6) NAPHTHALENE-d8 (2)	4.014	136	387535	40.00	ug/ml	-0.03
10) ACENAPHTHENE-D10 (2)	5.088	164	222048	40.00	ug/ml	0.00
16) PHENANTHRENE-D10 (2)	6.015	188	378353	40.00	ug/ml	0.00
17) CHRYSENE-D12 (2)	8.484	240	228897	40.00	ug/ml	-0.05
19) PERYLENE-D12 (2)	11.041	264	224351	40.00	ug/ml	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	2.613	112	201498	0.00	ug/ml	-0.12
Spiked Amount 200.000	Range 30 - 130		Recovery =	0.00%#		
3) Phenol-d6	3.074	99	307718	0.00	ug/ml	-0.11
Spiked Amount 200.000	Range 30 - 130		Recovery =	0.00%#		
7) Nitrobenzene-d5	3.592	82	154722	0.00	ug/ml	0.00
Spiked Amount 100.000	Range 30 - 130		Recovery =	0.00%#		
11) 2-Fluorobiphenyl	4.660	172	295852	0.00	ug/ml	0.03
Spiked Amount 100.000	Range 30 - 130		Recovery =	0.00%#		
12) 2,4,6-Tribromophenol	0.000	330	0	0.00	ug/ml	
Spiked Amount 200.000	Range 30 - 130		Recovery =	0.00%#		
18) Terphenyl-d14	7.207	244	268831	0.00	ug/ml	-0.09
Spiked Amount 100.000	Range 30 - 130		Recovery =	0.00%#		
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\D051624\
Data File : D24S137017.D
Acq On : 16 May 2024 5:34 pm
Operator : BGL
Sample : 24E1437-06 Inst : GCMSSV4
Misc :
ALS Vial : 17 Sample Multiplier: 1

480

Quant Time: May 23 10:25:34 2024
Quant Method : C:\msdchem\1\METHODS\NCD02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270STD SVMS4 N.C. apx2 extra compds PulseWool
QLast Update : Thu May 23 10:19:14 2024
Response via : Initial Calibration



1 - FORM I
ANALYSIS DATA SHEET

SB4A

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-12	File ID:	D24S137018.D
Sampled:	05/08/24 14:53	Prepared:	05/12/24 07:21	Analyzed:	05/16/24 17:54
Solids:	77.87	Preparation:	SW-846 3546	Dilution:	1
Initial/Final:	30.58 g / 1 mL				
Batch:	B374087	Sequence:	S104909	Calibration:	2400207	Instrument:	GCMSSV4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
58-90-2	2,3,4,6-Tetrachlorophenol		0.058	0.84	
1912-24-9	Atrazine		0.055	0.84	
100-52-7	Benzaldehyde		0.068	0.43	
92-52-4	Biphenyl		0.054	0.84	
105-60-2	Caprolactam		0.074	0.43	
83-32-9	Acenaphthene		0.041	0.21	
208-96-8	Acenaphthylene		0.039	0.21	
98-86-2	Acetophenone		0.045	0.43	
62-53-3	Aniline		0.074	0.43	
120-12-7	Anthracene		0.038	0.21	
56-55-3	Benzo(a)anthracene		0.035	0.21	
50-32-8	Benzo(a)pyrene		0.039	0.21	
205-99-2	Benzo(b)fluoranthene		0.035	0.21	
191-24-2	Benzo(g,h,i)perylene		0.061	0.21	
207-08-9	Benzo(k)fluoranthene		0.039	0.21	
111-91-1	Bis(2-chloroethoxy)methane		0.046	0.43	
111-44-4	Bis(2-chloroethyl)ether		0.061	0.43	
108-60-1	Bis(2-chloroisopropyl)ether		0.27	0.43	V-06
117-81-7	Bis(2-Ethylhexyl)phthalate		0.051	0.43	L-05, V-06
101-55-3	4-Bromophenylphenylether		0.039	0.43	
85-68-7	Butylbenzylphthalate		0.048	0.43	
86-74-8	Carbazole		0.043	0.21	
106-47-8	4-Chloroaniline		0.076	0.83	
59-50-7	4-Chloro-3-methylphenol		0.045	0.83	
91-58-7	2-Chloronaphthalene		0.037	0.43	
95-57-8	2-Chlorophenol		0.043	0.43	
7005-72-3	4-Chlorophenylphenylether		0.035	0.43	
218-01-9	Chrysene		0.038	0.21	
53-70-3	Dibenz(a,h)anthracene		0.059	0.21	
132-64-9	Dibenzofuran		0.038	0.43	

1 - FORM I
ANALYSIS DATA SHEET

SB4A

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-12	File ID:	D24S137018.D
Sampled:	05/08/24 14:53	Prepared:	05/12/24 07:21	Analyzed:	05/16/24 17:54
Solids:	77.87	Preparation:	SW-846 3546	Dilution:	1
Initial/Final:	30.58 g / 1 mL				
Batch:	B374087	Sequence:	S104909	Calibration:	2400207	Instrument:	GCMSSV4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
84-74-2	Di-n-butylphthalate		0.16	0.43	
91-94-1	3,3-Dichlorobenzidine		0.092	0.21	
120-83-2	2,4-Dichlorophenol		0.041	0.43	
84-66-2	Diethylphthalate		0.041	0.43	
105-67-9	2,4-Dimethylphenol		0.099	0.43	
131-11-3	Dimethylphthalate		0.040	0.43	
534-52-1	4,6-Dinitro-2-methylphenol		0.34	0.43	
51-28-5	2,4-Dinitrophenol		0.33	0.83	
121-14-2	2,4-Dinitrotoluene		0.043	0.43	
606-20-2	2,6-Dinitrotoluene		0.045	0.43	
117-84-0	Di-n-octylphthalate		0.060	0.43	V-20
206-44-0	Fluoranthene		0.035	0.21	
86-73-7	Fluorene		0.038	0.21	
118-74-1	Hexachlorobenzene		0.041	0.43	
87-68-3	Hexachlorobutadiene		0.039	0.43	
77-47-4	Hexachlorocyclopentadiene		0.28	0.43	L-04, V-05
67-72-1	Hexachloroethane		0.039	0.43	
193-39-5	Indeno(1,2,3-cd)pyrene		0.069	0.21	
78-59-1	Isophorone		0.045	0.43	
90-12-0	1-Methylnaphthalene		0.043	0.21	
91-57-6	2-Methylnaphthalene		0.036	0.21	
95-48-7	2-Methylphenol		0.057	0.43	
108-39-4/106-44	3/4-Methylphenol		0.056	0.43	
91-20-3	Naphthalene		0.075	0.21	
88-74-4	2-Nitroaniline		0.052	0.43	
99-09-2	3-Nitroaniline		0.089	0.43	
100-01-6	4-Nitroaniline		0.048	0.43	
98-95-3	Nitrobenzene		0.054	0.43	
88-75-5	2-Nitrophenol		0.042	0.43	
100-02-7	4-Nitrophenol		0.11	0.83	

1 - FORM I
ANALYSIS DATA SHEET

SB4A

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-12	File ID:	D24S137018.D
Sampled:	05/08/24 14:53	Prepared:	05/12/24 07:21	Analyzed:	05/16/24 17:54
Solids:	77.87	Preparation:	SW-846 3546	Dilution:	1
Initial/Final:	30.58 g / 1 mL				
Batch:	B374087	Sequence:	S104909	Calibration:	2400207
Instrument:	GCMSSV4				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
86-30-6	N-Nitrosodiphenylamine/Diphenylamine		0.054	0.43	
621-64-7	N-Nitrosodi-n-propylamine		0.060	0.43	
87-86-5	Pentachlorophenol		0.15	0.43	V-05
85-01-8	Phenanthrene		0.038	0.21	
108-95-2	Phenol		0.054	0.43	
129-00-0	Pyrene		0.045	0.21	
110-86-1	Pyridine		0.050	0.43	
95-94-3	1,2,4,5-Tetrachlorobenzene		0.042	0.43	
95-95-4	2,4,5-Trichlorophenol		0.044	0.43	
88-06-2	2,4,6-Trichlorophenol		0.041	0.43	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D051624\
Data File : D24S137018.D
Acq On : 16 May 2024 5:54 pm
Operator : BGL
Sample : 24E1437-12 Inst : GCMSSV4
Misc :
ALS Vial : 18 Sample Multiplier: 1

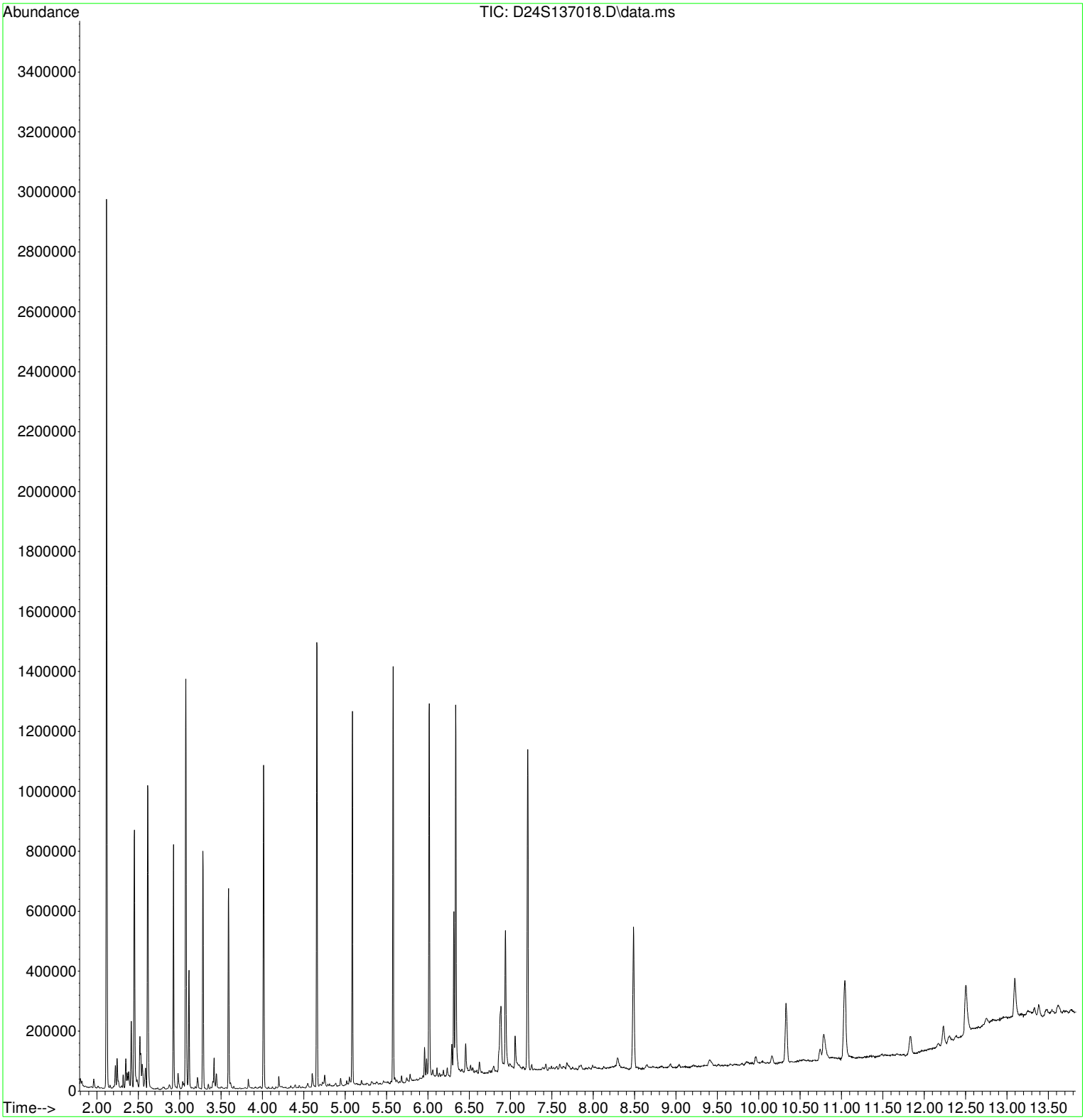
Quant Time: May 23 12:31:49 2024
Quant Method : C:\MSDCHEM\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Wed Apr 24 09:02:55 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-D4	3.280	152	80425	40.00	ug/ml	-0.03
19) NAPHTHALENE-d8	4.014	136	312213	40.00	ug/ml	-0.03
35) ACENAPHTHENE-D10	5.088	164	177672	40.00	ug/ml	-0.03
58) PHENANTHRENE-D10	6.017	188	319644	40.00	ug/ml	-0.03
71) CHRYSENE-D12	8.487	240	189172	40.00	ug/ml	-0.05
80) PERYLENE-D12	11.041	264	175799	40.00	ug/ml	-0.06
System Monitoring Compounds						
2) 2-Fluorophenol	2.616	112	182341	93.06	ug/ml	-0.03
Spiked Amount 200.000	Range 30 - 130		Recovery = 46.53%			
3) Phenol-d6	3.074	99	309977	99.75	ug/ml	-0.03
Spiked Amount 200.000	Range 30 - 130		Recovery = 49.88%			
20) Nitrobenzene-d5	3.592	82	151770	52.47	ug/ml	-0.03
Spiked Amount 100.000	Range 30 - 130		Recovery = 52.47%			
36) 2-Fluorobiphenyl	4.660	172	300861	55.19	ug/ml	-0.03
Spiked Amount 100.000	Range 30 - 130		Recovery = 55.19%			
37) 2,4,6-Tribromophenol	5.580	330	84735	91.50	ug/ml	-0.03
Spiked Amount 200.000	Range 30 - 130		Recovery = 45.75%			
72) Terphenyl-d14	7.207	244	290418	76.08	ug/ml	-0.04
Spiked Amount 100.000	Range 30 - 130		Recovery = 76.08%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\D051624\
Data File : D24S137018.D
Acq On : 16 May 2024 5:54 pm
Operator : BGL
Sample : 24E1437-12 Inst : GCMSSV4
Misc :
ALS Vial : 18 Sample Multiplier: 1

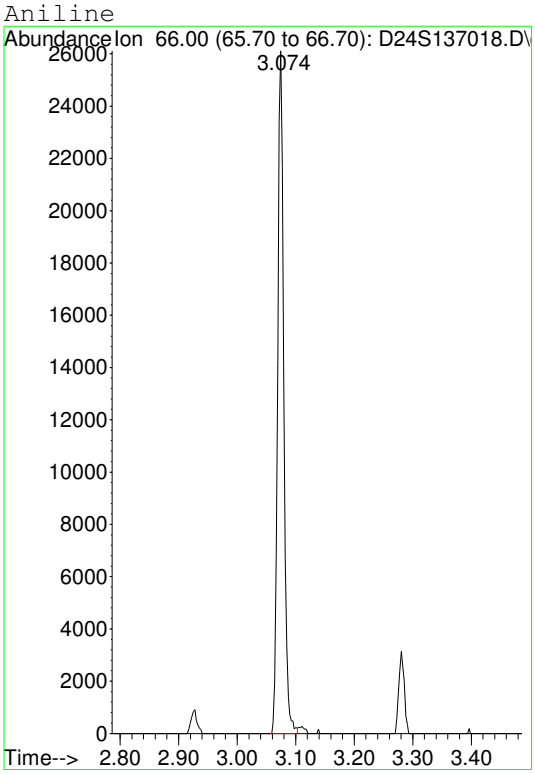
Quant Time: May 23 12:31:49 2024
Quant Method : C:\MSDCHEM\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Wed Apr 24 09:02:55 2024
Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\D051624\
Data File : D24S137018.D
Acq On : 16 May 2024 5:54 pm
Operator : BGL
Sample : 24E1437-12
Misc :

Quant Time : Thu May 23 12:31:49 2024
Quant Method : C:\MSDCHEM\1\METHODS\BND02154.M
QLast Update : Wed Apr 24 09:02:55 2024

Original Integration
Aniline



Original Int. Results

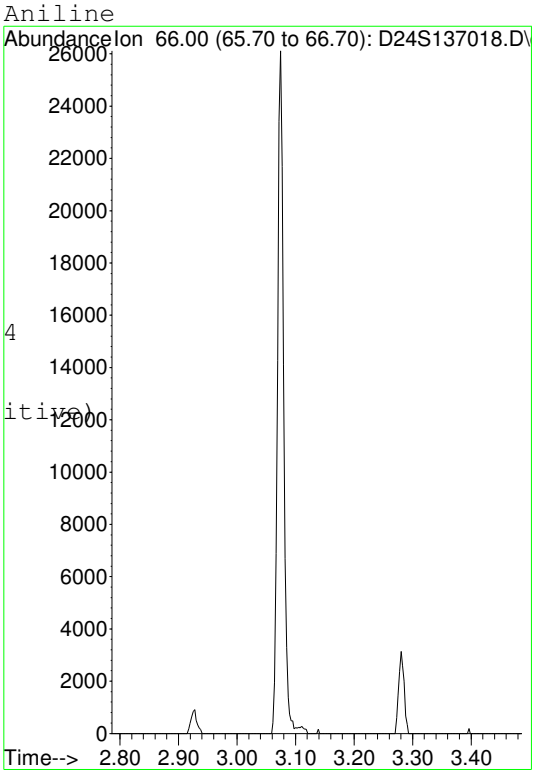
RT : 3.07
Area : 18936
Amount: 12.8723

Manual Int. Results

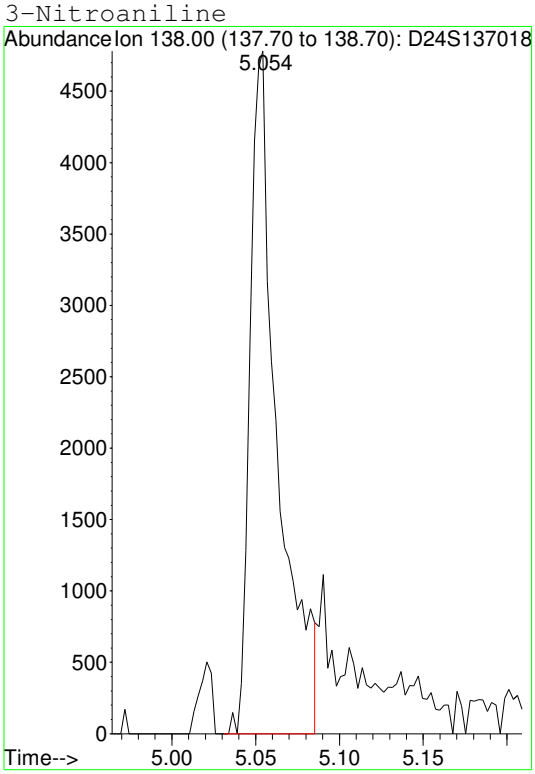
Thu May 23 12:31:44 2024

MIuser: BGL
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
Aniline



Original Integration
3-Nitroaniline



Original Int. Results

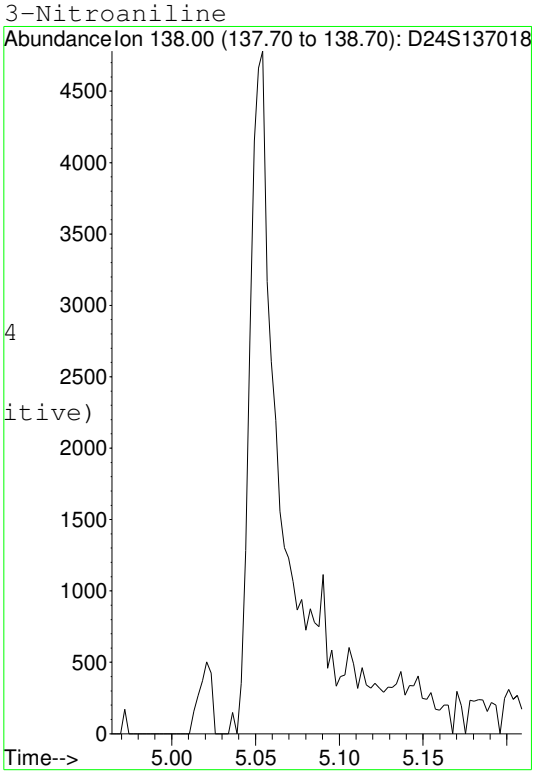
RT : 5.05
Area : 5475
Amount: 4.30487

Manual Int. Results

Thu May 23 12:31:49 2024

MIuser: BGL
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
3-Nitroaniline



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D051624\
Data File : D24S137018.D
Acq On : 16 May 2024 5:54 pm
Operator : BGL
Sample : 24E1437-12 Inst : GCMSSV4
Misc :
ALS Vial : 18 Sample Multiplier: 1

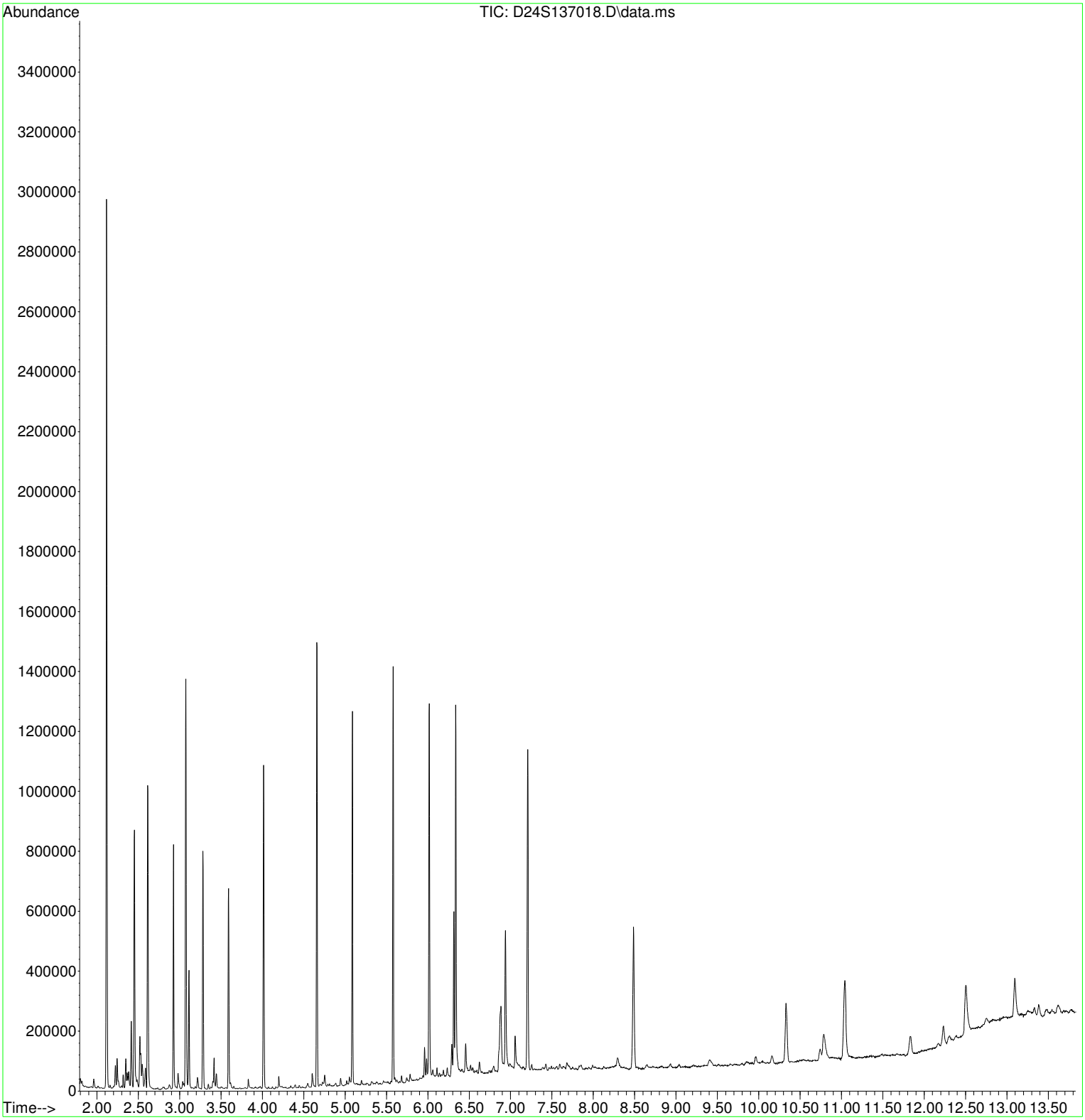
Quant Time: May 23 10:25:36 2024
Quant Method : C:\msdchem\1\METHODS\NCD02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270STD SVMS4 N.C. apx2 extra compds PulseWool
QLast Update : Thu May 23 10:19:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-D4...	3.280	152	80425	40.00	ug/ml	-0.02
6) NAPHTHALENE-d8 (2)	4.014	136	312213	40.00	ug/ml	-0.03
10) ACENAPHTHENE-D10 (2)	5.088	164	177672	40.00	ug/ml	0.00
16) PHENANTHRENE-D10 (2)	6.017	188	319644	40.00	ug/ml	0.00
17) CHRYSENE-D12 (2)	8.487	240	189172	40.00	ug/ml	-0.04
19) PERYLENE-D12 (2)	11.041	264	175799	40.00	ug/ml	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	2.616	112	182341	0.00	ug/ml	-0.12
Spiked Amount 200.000	Range 30 - 130		Recovery =	0.00%#		
3) Phenol-d6	3.074	99	309977	0.00	ug/ml	-0.11
Spiked Amount 200.000	Range 30 - 130		Recovery =	0.00%#		
7) Nitrobenzene-d5	3.592	82	151770	0.00	ug/ml	0.00
Spiked Amount 100.000	Range 30 - 130		Recovery =	0.00%#		
11) 2-Fluorobiphenyl	4.660	172	300861	0.00	ug/ml	0.03
Spiked Amount 100.000	Range 30 - 130		Recovery =	0.00%#		
12) 2,4,6-Tribromophenol	0.000	330	0	0.00	ug/ml	
Spiked Amount 200.000	Range 30 - 130		Recovery =	0.00%#		
18) Terphenyl-d14	7.207	244	290418	0.00	ug/ml	-0.09
Spiked Amount 100.000	Range 30 - 130		Recovery =	0.00%#		
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\D051624\
Data File : D24S137018.D
Acq On : 16 May 2024 5:54 pm
Operator : BGL
Sample : 24E1437-12 Inst : GCMSSV4
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 23 10:25:36 2024
Quant Method : C:\msdchem\1\METHODS\NCD02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270STD SVMS4 N.C. apx2 extra compds PulseWool
QLast Update : Thu May 23 10:19:14 2024
Response via : Initial Calibration



1 - FORM I
ANALYSIS DATA SHEET

SB7

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-17	File ID:	D24S137019.D
Sampled:	05/08/24 15:39	Prepared:	05/12/24 07:21	Analyzed:	05/16/24 18:14
Solids:	69.34	Preparation:	SW-846 3546	Dilution:	1
Initial/Final:	30.39 g / 1 mL				
Batch:	B374087	Sequence:	S104909	Calibration:	2400207	Instrument:	GCMSSV4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
58-90-2	2,3,4,6-Tetrachlorophenol		0.065	0.95	
1912-24-9	Atrazine		0.062	0.95	
100-52-7	Benzaldehyde	0.086	0.077	0.48	J
92-52-4	Biphenyl		0.061	0.95	
105-60-2	Caprolactam		0.084	0.48	
83-32-9	Acenaphthene		0.046	0.24	
208-96-8	Acenaphthylene		0.044	0.24	
98-86-2	Acetophenone		0.050	0.48	
62-53-3	Aniline		0.084	0.48	
120-12-7	Anthracene		0.043	0.24	
56-55-3	Benzo(a)anthracene		0.039	0.24	
50-32-8	Benzo(a)pyrene		0.044	0.24	
205-99-2	Benzo(b)fluoranthene		0.039	0.24	
191-24-2	Benzo(g,h,i)perylene		0.069	0.24	
207-08-9	Benzo(k)fluoranthene		0.044	0.24	
111-91-1	Bis(2-chloroethoxy)methane		0.052	0.48	
111-44-4	Bis(2-chloroethyl)ether		0.069	0.48	
108-60-1	Bis(2-chloroisopropyl)ether		0.30	0.48	V-06
117-81-7	Bis(2-Ethylhexyl)phthalate		0.057	0.48	L-05, V-06
101-55-3	4-Bromophenylphenylether		0.044	0.48	
85-68-7	Butylbenzylphthalate		0.054	0.48	
86-74-8	Carbazole		0.049	0.24	
106-47-8	4-Chloroaniline		0.086	0.94	
59-50-7	4-Chloro-3-methylphenol		0.050	0.94	
91-58-7	2-Chloronaphthalene		0.042	0.48	
95-57-8	2-Chlorophenol		0.049	0.48	
7005-72-3	4-Chlorophenylphenylether		0.040	0.48	
218-01-9	Chrysene		0.043	0.24	
53-70-3	Dibenz(a,h)anthracene		0.067	0.24	
132-64-9	Dibenzofuran		0.043	0.48	

1 - FORM I
ANALYSIS DATA SHEET

SB7

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-17	File ID:	D24S137019.D
Sampled:	05/08/24 15:39	Prepared:	05/12/24 07:21	Analyzed:	05/16/24 18:14
Solids:	69.34	Preparation:	SW-846 3546	Dilution:	1
Initial/Final:	30.39 g / 1 mL				
Batch:	B374087	Sequence:	S104909	Calibration:	2400207	Instrument:	GCMSSV4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
84-74-2	Di-n-butylphthalate		0.18	0.48	
91-94-1	3,3-Dichlorobenzidine		0.10	0.24	
120-83-2	2,4-Dichlorophenol		0.046	0.48	
84-66-2	Diethylphthalate		0.047	0.48	
105-67-9	2,4-Dimethylphenol		0.11	0.48	
131-11-3	Dimethylphthalate		0.046	0.48	
534-52-1	4,6-Dinitro-2-methylphenol		0.38	0.48	
51-28-5	2,4-Dinitrophenol		0.37	0.94	
121-14-2	2,4-Dinitrotoluene		0.049	0.48	
606-20-2	2,6-Dinitrotoluene		0.051	0.48	
117-84-0	Di-n-octylphthalate		0.068	0.48	V-20
206-44-0	Fluoranthene		0.040	0.24	
86-73-7	Fluorene		0.043	0.24	
118-74-1	Hexachlorobenzene		0.047	0.48	
87-68-3	Hexachlorobutadiene		0.044	0.48	
77-47-4	Hexachlorocyclopentadiene		0.32	0.48	L-04, V-05
67-72-1	Hexachloroethane		0.045	0.48	
193-39-5	Indeno(1,2,3-cd)pyrene		0.078	0.24	
78-59-1	Isophorone		0.051	0.48	
90-12-0	1-Methylnaphthalene		0.048	0.24	
91-57-6	2-Methylnaphthalene		0.041	0.24	
95-48-7	2-Methylphenol		0.065	0.48	
108-39-4/106-44	3/4-Methylphenol		0.064	0.48	
91-20-3	Naphthalene		0.085	0.24	
88-74-4	2-Nitroaniline		0.059	0.48	
99-09-2	3-Nitroaniline		0.10	0.48	
100-01-6	4-Nitroaniline		0.054	0.48	
98-95-3	Nitrobenzene		0.061	0.48	
88-75-5	2-Nitrophenol		0.047	0.48	
100-02-7	4-Nitrophenol		0.13	0.94	

1 - FORM I
ANALYSIS DATA SHEET

SB7

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-17	File ID:	D24S137019.D
Sampled:	05/08/24 15:39	Prepared:	05/12/24 07:21	Analyzed:	05/16/24 18:14
Solids:	69.34	Preparation:	SW-846 3546	Dilution:	1
Initial/Final:	30.39 g / 1 mL				
Batch:	B374087	Sequence:	S104909	Calibration:	2400207
				Instrument:	GCMSSV4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
86-30-6	N-Nitrosodiphenylamine/Diphenylamine		0.061	0.48	
621-64-7	N-Nitrosodi-n-propylamine		0.067	0.48	
87-86-5	Pentachlorophenol		0.17	0.48	V-05
85-01-8	Phenanthrene		0.043	0.24	
108-95-2	Phenol		0.061	0.48	
129-00-0	Pyrene	0.053	0.050	0.24	J
110-86-1	Pyridine		0.056	0.48	
95-94-3	1,2,4,5-Tetrachlorobenzene		0.048	0.48	
95-95-4	2,4,5-Trichlorophenol		0.049	0.48	
88-06-2	2,4,6-Trichlorophenol		0.046	0.48	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D051624\
Data File : D24S137019.D
Acq On : 16 May 2024 6:14 pm
Operator : BGL
Sample : 24E1437-17 Inst : GCMSSV4
Misc :
ALS Vial : 19 Sample Multiplier: 1

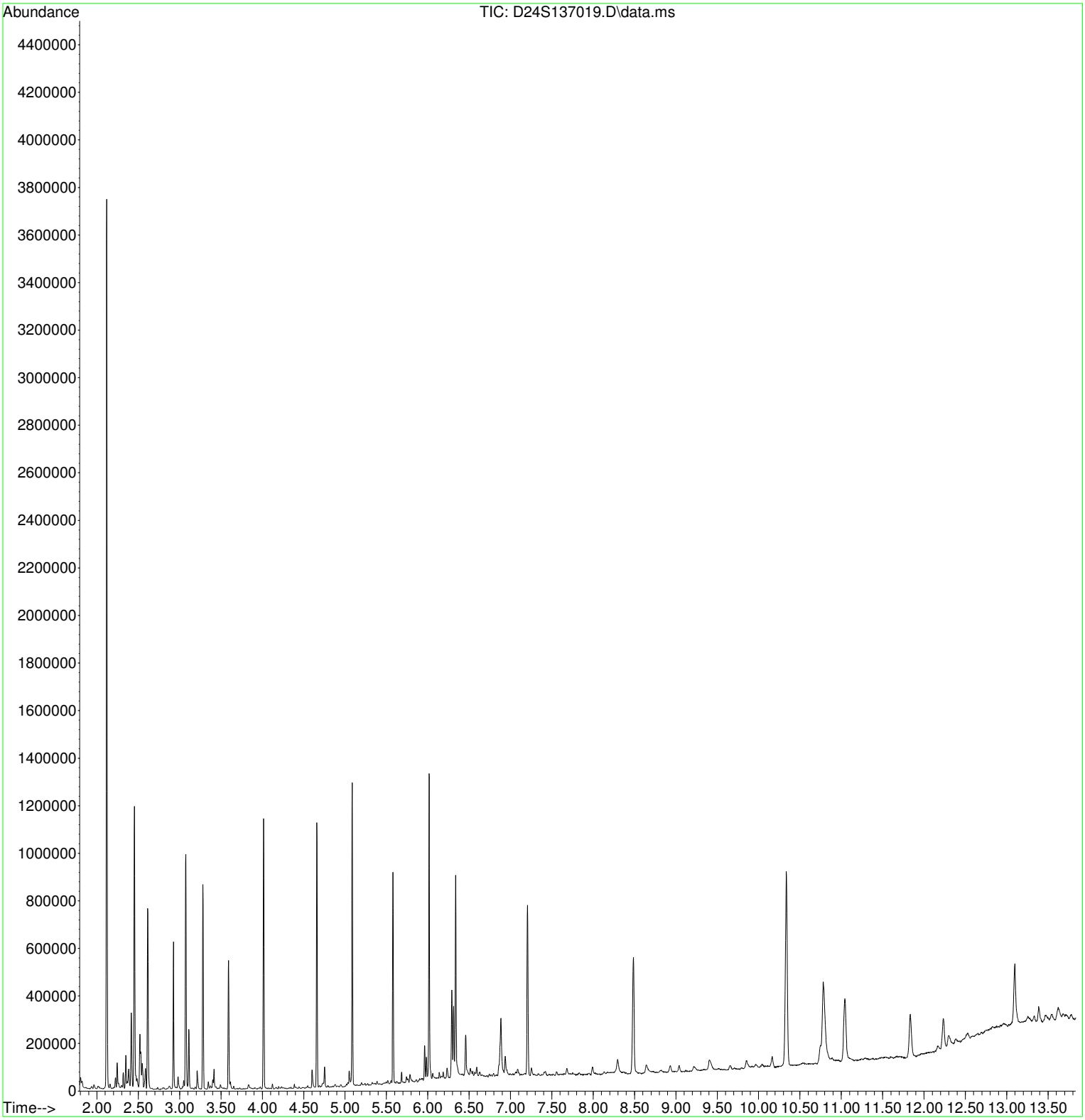
Quant Time: May 23 12:32:50 2024
Quant Method : C:\MSDCHEM\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Wed Apr 24 09:02:55 2024
Response via : Initial Calibration

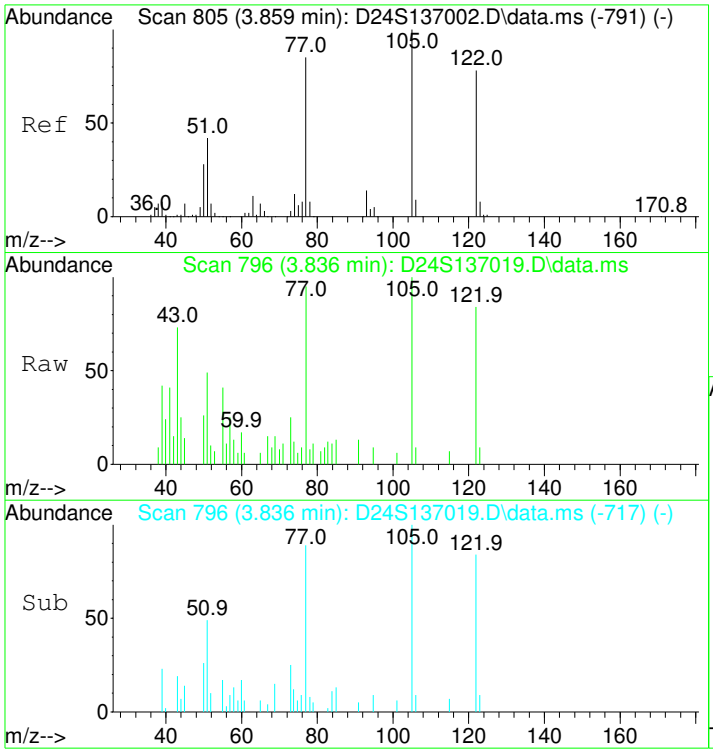
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-D4	3.280	152	85762	40.00	ug/ml	-0.03
19) NAPHTHALENE-d8	4.014	136	327917	40.00	ug/ml	-0.03
35) ACENAPHTHENE-D10	5.088	164	187402	40.00	ug/ml	-0.03
58) PHENANTHRENE-D10	6.015	188	332191	40.00	ug/ml	-0.03
71) CHRYSENE-D12	8.486	240	190307	40.00	ug/ml	-0.05
80) PERYLENE-D12	11.043	264	180609	40.00	ug/ml	-0.05
System Monitoring Compounds						
2) 2-Fluorophenol	2.613	112	138817	66.44	ug/ml	-0.03
Spiked Amount 200.000	Range 30 - 130		Recovery = 33.22%			
3) Phenol-d6	3.074	99	229389	69.22	ug/ml	-0.03
Spiked Amount 200.000	Range 30 - 130		Recovery = 34.61%			
20) Nitrobenzene-d5	3.592	82	121713	40.07	ug/ml	-0.03
Spiked Amount 100.000	Range 30 - 130		Recovery = 40.07%			
36) 2-Fluorobiphenyl	4.658	172	217819	37.89	ug/ml	-0.03
Spiked Amount 100.000	Range 30 - 130		Recovery = 37.89%			
37) 2,4,6-Tribromophenol	5.580	330	51669	52.89	ug/ml	-0.03
Spiked Amount 200.000	Range 30 - 130		Recovery = 26.45%#			
72) Terphenyl-d14	7.207	244	191935	49.98	ug/ml	-0.04
Spiked Amount 100.000	Range 30 - 130		Recovery = 49.98%			
Target Compounds						Qvalue
26) Benzoic Acid	3.836	122	1887	1.09	ug/ml	89
74) Pyrene	7.086	202	7414	1.11	ug/ml	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\D051624\
Data File : D24S137019.D
Acq On : 16 May 2024 6:14 pm
Operator : BGL
Sample : 24E1437-17 Inst : GCMSSV4
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 23 12:32:50 2024
Quant Method : C:\MSDCHEM\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Wed Apr 24 09:02:55 2024
Response via : Initial Calibration

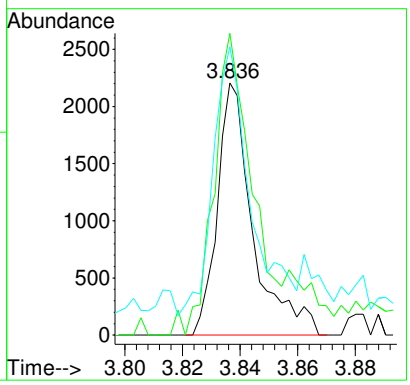


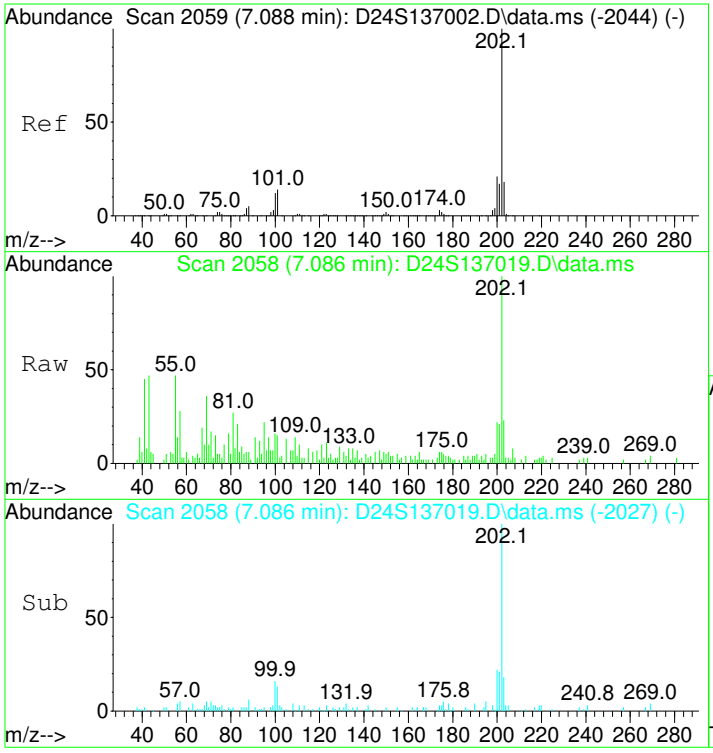


#26
Benzoic Acid
Concen: 1.09 ug/ml
RT: 3.836 min Scan# 796
Delta R.T. -0.047 min
Lab File: D24S137019.D
Acq: 16 May 2024 6:14 pm

Tgt Ion:122 Resp: 1887

Ion	Ratio	Lower	Upper
122	100		
105	128.7	127.2	167.2
77	115.9	89.2	129.2

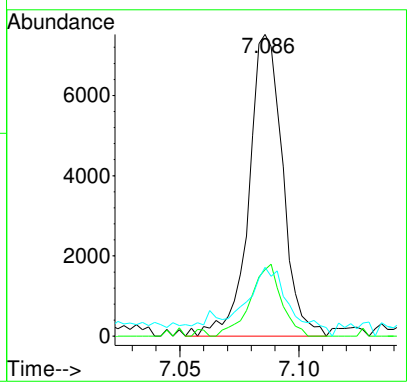




#74
Pyrene
Concen: 1.11 ug/ml
RT: 7.086 min Scan# 2058
Delta R.T. -0.040 min
Lab File: D24S137019.D
Acq: 16 May 2024 6:14 pm

Tgt Ion:202 Resp: 7414

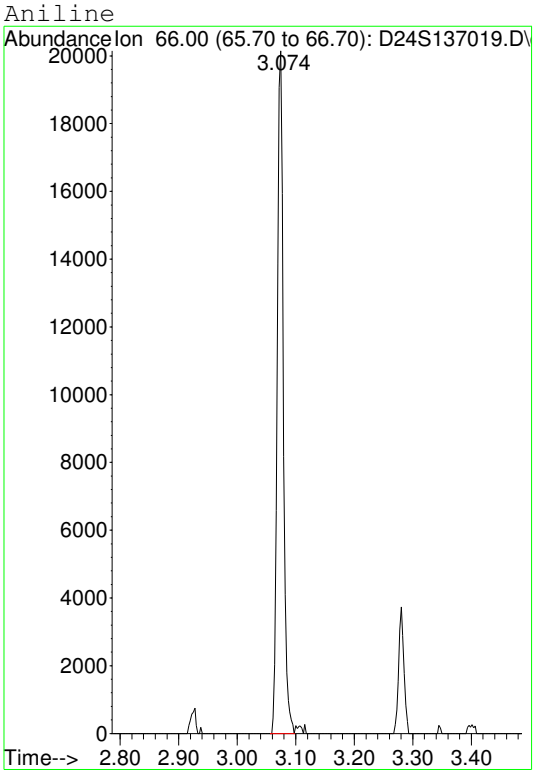
Ion	Ratio	Lower	Upper
202	100		
200	21.9	0.8	40.8
203	28.7	0.0	38.3



Data Path : C:\msdchem\1\DATA\D051624\
Data File : D24S137019.D
Acq On : 16 May 2024 6:14 pm
Operator : BGL
Sample : 24E1437-17
Misc :

Quant Time : Thu May 23 12:32:50 2024
Quant Method : C:\MSDCHEM\1\METHODS\BND02154.M
QLast Update : Wed Apr 24 09:02:55 2024

Original Integration
Aniline



Original Int. Results

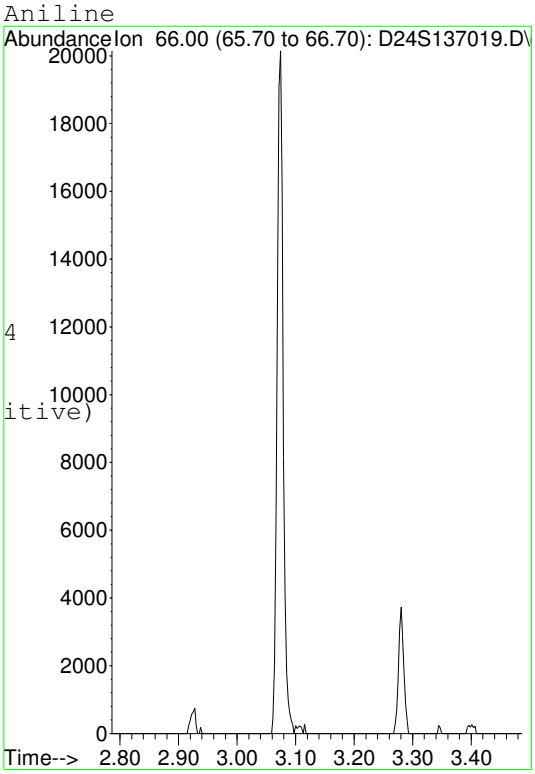
RT : 3.07
Area : 14591
Amount: 9.30143

Manual Int. Results

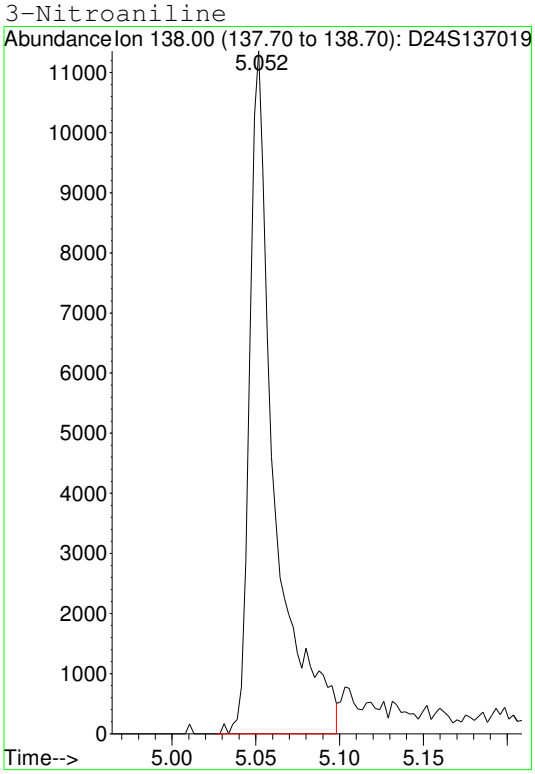
Thu May 23 12:32:18 2024

MIuser: BGL
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
Aniline



Original Integration
3-Nitroaniline



Original Int. Results

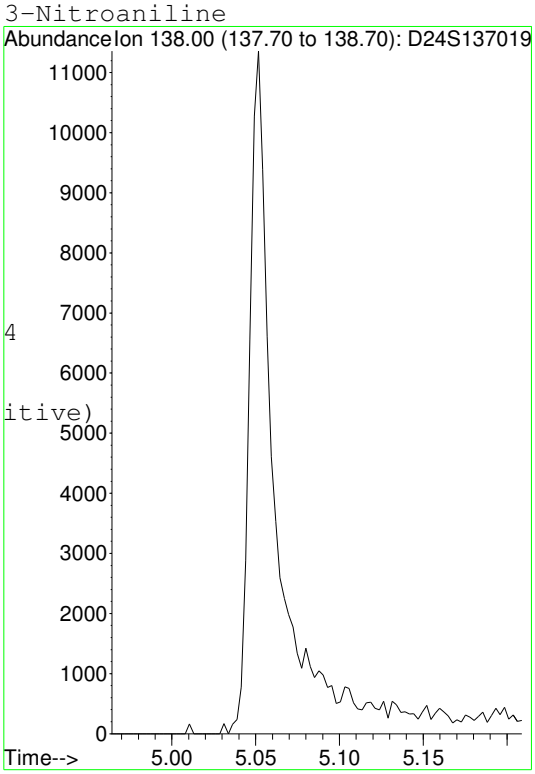
RT : 5.05
Area : 11611
Amount: 8.65546

Manual Int. Results

Thu May 23 12:32:23 2024

MIuser: BGL
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

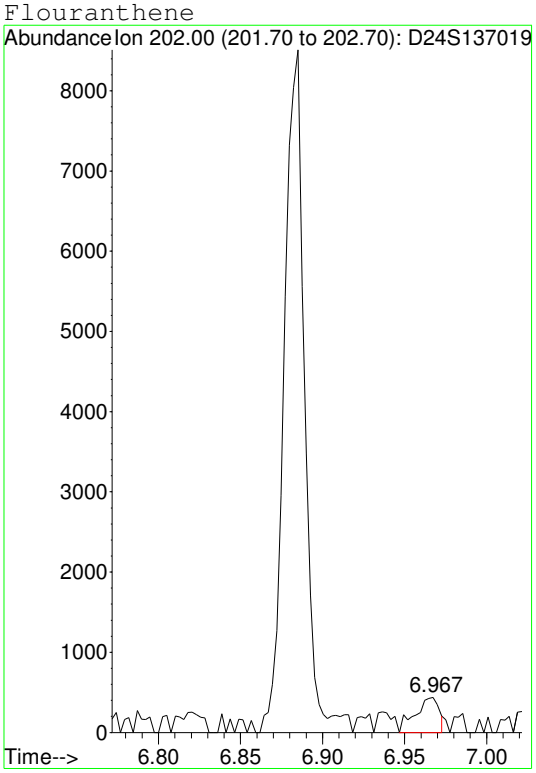
Manual Integration
3-Nitroaniline



Data Path : C:\msdchem\1\DATA\D051624\
Data File : D24S137019.D
Acq On : 16 May 2024 6:14 pm
Operator : BGL
Sample : 24E1437-17
Misc :

Quant Time : Thu May 23 12:32:50 2024
Quant Method : C:\MSDCHEM\1\METHODS\BND02154.M
QLast Update : Wed Apr 24 09:02:55 2024

Original Integration
Flouranthene



Original Int. Results

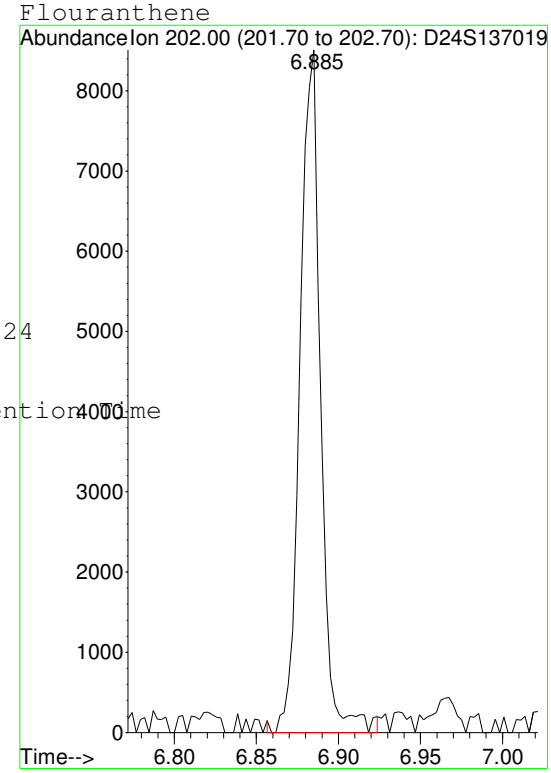
RT : 6.97
Area : 442
Amount: 0.0432195

Manual Int. Results

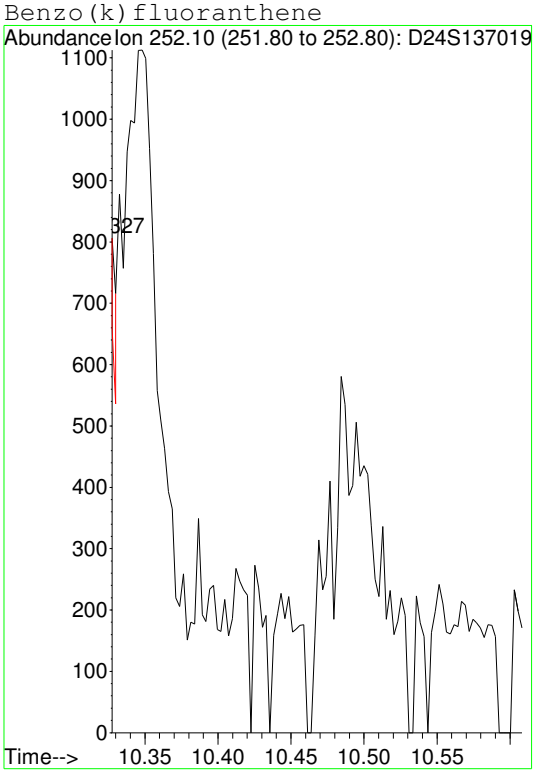
Thu May 23 12:32:31 2024

MIuser: BGL
Reason: Incorrect Retention Time
RT : 6.88
Area : 7450
Amount: 0.728474

Manual Integration
Flouranthene



Original Integration
Benzo(k)fluoranthene



Original Int. Results

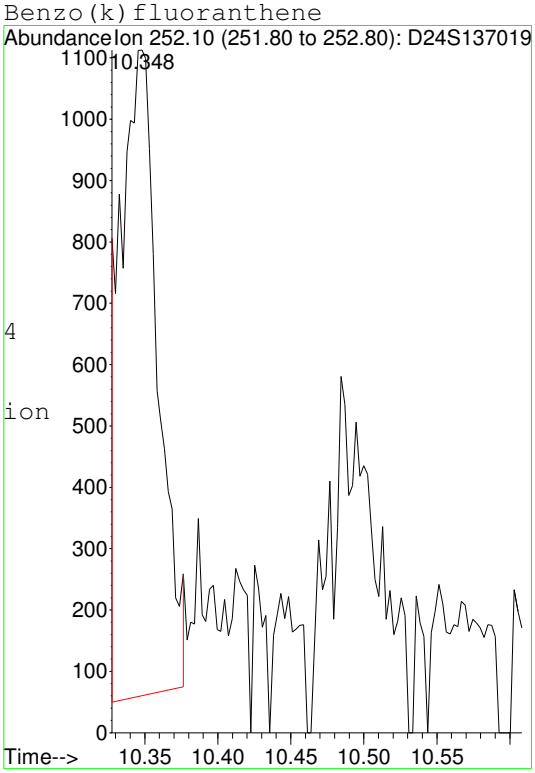
RT : 10.29
Area : 2470
Amount: 0.457308

Manual Int. Results

Thu May 23 12:32:45 2024

MIuser: BGL
Reason: Missed Integration
RT : 10.35
Area : 1874
Amount: 0.346962

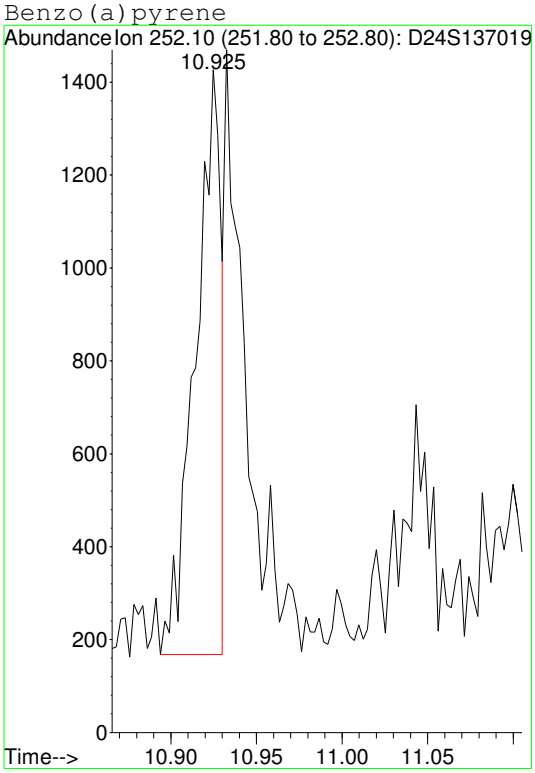
Manual Integration
Benzo(k)fluoranthene



Data Path : C:\msdchem\1\DATA\D051624\
Data File : D24S137019.D
Acq On : 16 May 2024 6:14 pm
Operator : BGL
Sample : 24E1437-17
Misc :

Quant Time : Thu May 23 12:32:50 2024
Quant Method : C:\MSDCHEM\1\METHODS\BND02154.M
QLast Update : Wed Apr 24 09:02:55 2024

Original Integration
Benzo(a)pyrene



Original Int. Results

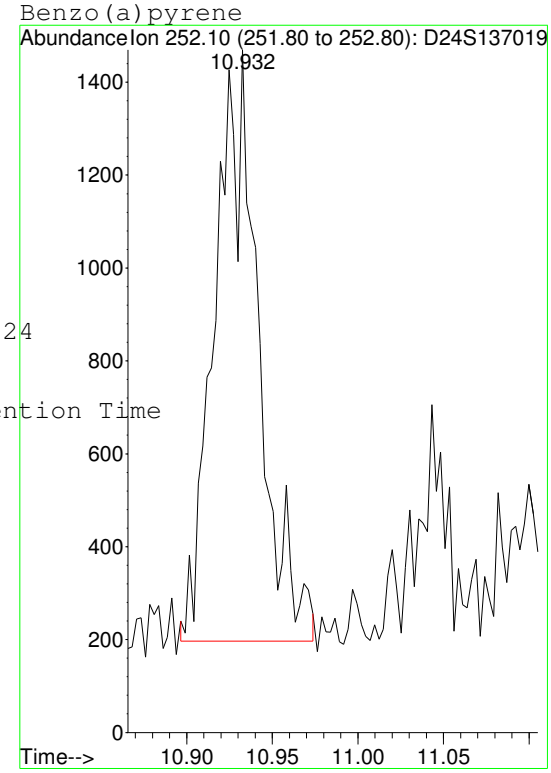
RT : 10.92
Area : 1302
Amount: 0.242544

Manual Int. Results

Thu May 23 12:32:50 2024

MIuser: BGL
Reason: Incorrect Retention Time
RT : 10.93
Area : 2271
Amount: 0.423056

Manual Integration
Benzo(a)pyrene



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D051624\
Data File : D24S137019.D
Acq On : 16 May 2024 6:14 pm
Operator : BGL
Sample : 24E1437-17 Inst : GCMSSV4
Misc :
ALS Vial : 19 Sample Multiplier: 1

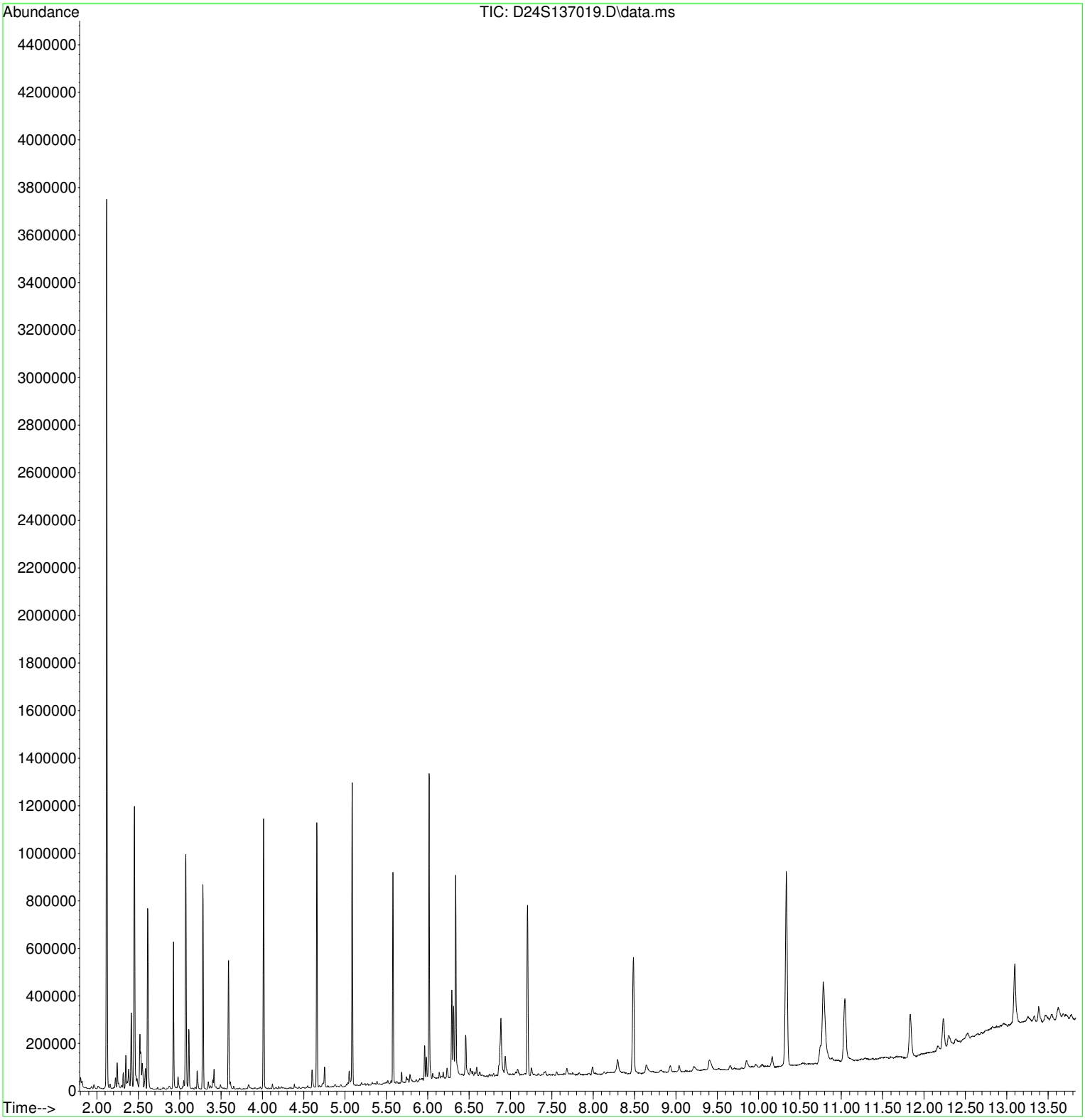
Quant Time: May 23 10:25:38 2024
Quant Method : C:\msdchem\1\METHODS\NCD02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270STD SVMS4 N.C. apx2 extra compds PulseWool
QLast Update : Thu May 23 10:19:14 2024
Response via : Initial Calibration

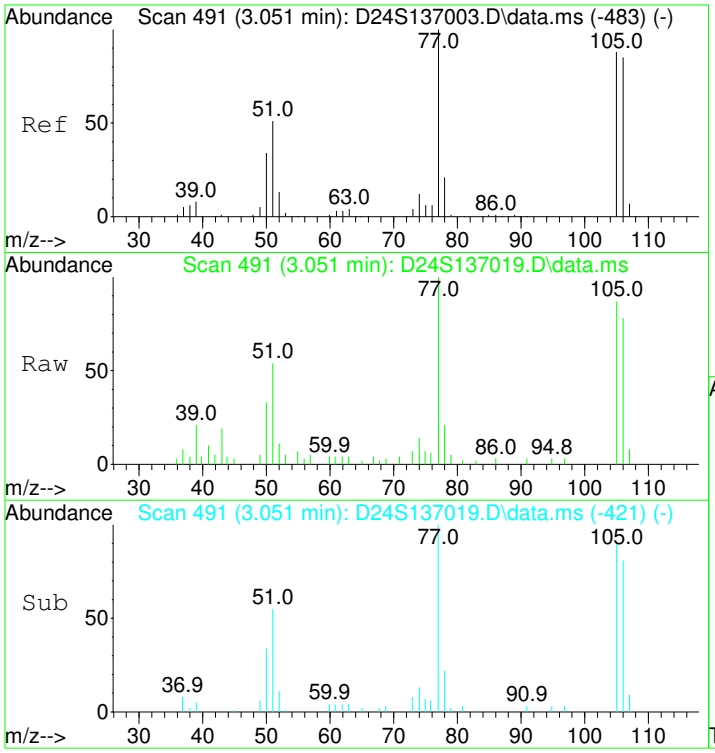
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-D4...	3.280	152	85762	40.00	ug/ml	-0.02
6) NAPHTHALENE-d8 (2)	4.014	136	327917	40.00	ug/ml	-0.03
10) ACENAPHTHENE-D10 (2)	5.088	164	187402	40.00	ug/ml	0.00
16) PHENANTHRENE-D10 (2)	6.015	188	332191	40.00	ug/ml	0.00
17) CHRYSENE-D12 (2)	8.486	240	190307	40.00	ug/ml	-0.04
19) PERYLENE-D12 (2)	11.043	264	180609	40.00	ug/ml	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	2.613	112	138817	0.00	ug/ml	-0.12
Spiked Amount 200.000	Range 30 - 130		Recovery =	0.00%#		
3) Phenol-d6	3.074	99	229389	0.00	ug/ml	-0.11
Spiked Amount 200.000	Range 30 - 130		Recovery =	0.00%#		
7) Nitrobenzene-d5	3.592	82	121713	0.00	ug/ml	0.00
Spiked Amount 100.000	Range 30 - 130		Recovery =	0.00%#		
11) 2-Fluorobiphenyl	4.658	172	217819	0.00	ug/ml	0.02
Spiked Amount 100.000	Range 30 - 130		Recovery =	0.00%#		
12) 2,4,6-Tribromophenol	0.000	330	0	0.00	ug/ml	
Spiked Amount 200.000	Range 30 - 130		Recovery =	0.00%#		
18) Terphenyl-d14	7.207	244	191935	0.00	ug/ml	-0.09
Spiked Amount 100.000	Range 30 - 130		Recovery =	0.00%#		
Target Compounds						Qvalue
4) Benzaldehyde	3.051	106	4298	1.82	ug/ml	89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\D051624\
Data File : D24S137019.D
Acq On : 16 May 2024 6:14 pm
Operator : BGL
Sample : 24E1437-17 Inst : GCMSSV4
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 23 10:25:38 2024
Quant Method : C:\msdchem\1\METHODS\NCD02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270STD SVMS4 N.C. apx2 extra compds PulseWool
QLast Update : Thu May 23 10:19:14 2024
Response via : Initial Calibration

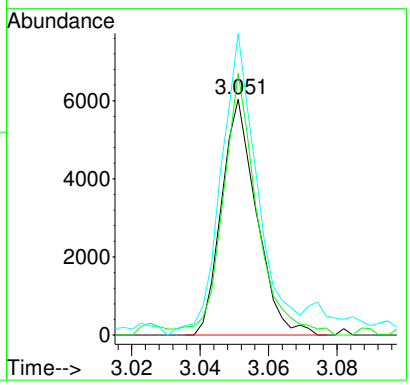




#4
Benzaldehyde
Concen: 1.82 ug/ml
RT: 3.051 min Scan# 491
Delta R.T. -0.019 min
Lab File: D24S137019.D
Acq: 16 May 2024 6:14 pm

Tgt Ion:106 Resp: 4298

Ion	Ratio	Lower	Upper
106	100		
105	108.0	84.9	124.9
77	132.9	93.7	133.7



500

1 - FORM I
ANALYSIS DATA SHEET

DUP

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-19	File ID:	D24S137020.D
Sampled:	05/08/24 15:45	Prepared:	05/12/24 07:21	Analyzed:	05/16/24 18:34
Solids:	69.57	Preparation:	SW-846 3546	Dilution:	1
Initial/Final:	30.32 g / 1 mL				
Batch:	B374087	Sequence:	S104909	Calibration:	2400207	Instrument:	GCMSSV4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
58-90-2	2,3,4,6-Tetrachlorophenol		0.065	0.95	
1912-24-9	Atrazine		0.062	0.95	
100-52-7	Benzaldehyde	0.098	0.077	0.48	J
92-52-4	Biphenyl		0.061	0.95	
105-60-2	Caprolactam		0.084	0.48	
83-32-9	Acenaphthene		0.046	0.24	
208-96-8	Acenaphthylene		0.044	0.24	
98-86-2	Acetophenone		0.050	0.48	
62-53-3	Aniline		0.084	0.48	
120-12-7	Anthracene		0.043	0.24	
56-55-3	Benzo(a)anthracene		0.039	0.24	
50-32-8	Benzo(a)pyrene		0.044	0.24	
205-99-2	Benzo(b)fluoranthene		0.039	0.24	
191-24-2	Benzo(g,h,i)perylene		0.069	0.24	
207-08-9	Benzo(k)fluoranthene		0.044	0.24	
111-91-1	Bis(2-chloroethoxy)methane		0.052	0.48	
111-44-4	Bis(2-chloroethyl)ether		0.069	0.48	
108-60-1	Bis(2-chloroisopropyl)ether		0.30	0.48	V-06
117-81-7	Bis(2-Ethylhexyl)phthalate		0.057	0.48	L-05, V-06
101-55-3	4-Bromophenylphenylether		0.044	0.48	
85-68-7	Butylbenzylphthalate		0.054	0.48	
86-74-8	Carbazole		0.049	0.24	
106-47-8	4-Chloroaniline		0.085	0.94	
59-50-7	4-Chloro-3-methylphenol		0.050	0.94	
91-58-7	2-Chloronaphthalene		0.042	0.48	
95-57-8	2-Chlorophenol		0.048	0.48	
7005-72-3	4-Chlorophenylphenylether		0.040	0.48	
218-01-9	Chrysene		0.043	0.24	
53-70-3	Dibenz(a,h)anthracene		0.067	0.24	
132-64-9	Dibenzofuran		0.043	0.48	

1 - FORM I
ANALYSIS DATA SHEET

DUP

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-19	File ID:	D24S137020.D
Sampled:	05/08/24 15:45	Prepared:	05/12/24 07:21	Analyzed:	05/16/24 18:34
Solids:	69.57	Preparation:	SW-846 3546	Dilution:	1
Initial/Final:	30.32 g / 1 mL				
Batch:	B374087	Sequence:	S104909	Calibration:	2400207	Instrument:	GCMSSV4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
84-74-2	Di-n-butylphthalate		0.18	0.48	
91-94-1	3,3-Dichlorobenzidine		0.10	0.24	
120-83-2	2,4-Dichlorophenol		0.046	0.48	
84-66-2	Diethylphthalate		0.047	0.48	
105-67-9	2,4-Dimethylphenol		0.11	0.48	
131-11-3	Dimethylphthalate		0.046	0.48	
534-52-1	4,6-Dinitro-2-methylphenol		0.38	0.48	
51-28-5	2,4-Dinitrophenol		0.37	0.94	
121-14-2	2,4-Dinitrotoluene		0.049	0.48	
606-20-2	2,6-Dinitrotoluene		0.051	0.48	
117-84-0	Di-n-octylphthalate		0.068	0.48	V-20
206-44-0	Fluoranthene		0.040	0.24	
86-73-7	Fluorene		0.043	0.24	
118-74-1	Hexachlorobenzene		0.047	0.48	
87-68-3	Hexachlorobutadiene		0.044	0.48	
77-47-4	Hexachlorocyclopentadiene		0.32	0.48	L-04, V-05
67-72-1	Hexachloroethane		0.045	0.48	
193-39-5	Indeno(1,2,3-cd)pyrene		0.078	0.24	
78-59-1	Isophorone		0.051	0.48	
90-12-0	1-Methylnaphthalene		0.048	0.24	
91-57-6	2-Methylnaphthalene		0.041	0.24	
95-48-7	2-Methylphenol		0.065	0.48	
108-39-4/106-44	3/4-Methylphenol		0.064	0.48	
91-20-3	Naphthalene		0.085	0.24	
88-74-4	2-Nitroaniline		0.059	0.48	
99-09-2	3-Nitroaniline		0.10	0.48	
100-01-6	4-Nitroaniline		0.054	0.48	
98-95-3	Nitrobenzene		0.061	0.48	
88-75-5	2-Nitrophenol		0.047	0.48	
100-02-7	4-Nitrophenol		0.13	0.94	

1 - FORM I
ANALYSIS DATA SHEET

DUP

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-19	File ID:	D24S137020.D
Sampled:	05/08/24 15:45	Prepared:	05/12/24 07:21	Analyzed:	05/16/24 18:34
Solids:	69.57	Preparation:	SW-846 3546	Dilution:	1
Initial/Final:	30.32 g / 1 mL				
Batch:	B374087	Sequence:	S104909	Calibration:	2400207
Instrument:	GCMSSV4				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
86-30-6	N-Nitrosodiphenylamine/Diphenylamine		0.061	0.48	
621-64-7	N-Nitrosodi-n-propylamine		0.067	0.48	
87-86-5	Pentachlorophenol		0.17	0.48	V-05
85-01-8	Phenanthrene		0.043	0.24	
108-95-2	Phenol		0.061	0.48	
129-00-0	Pyrene	0.057	0.050	0.24	J
110-86-1	Pyridine		0.056	0.48	
95-94-3	1,2,4,5-Tetrachlorobenzene		0.048	0.48	
95-95-4	2,4,5-Trichlorophenol		0.049	0.48	
88-06-2	2,4,6-Trichlorophenol		0.046	0.48	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D051624\
Data File : D24S137020.D
Acq On : 16 May 2024 6:34 pm
Operator : BGL
Sample : 24E1437-19 Inst : GCMSSV4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 23 12:34:08 2024
Quant Method : C:\MSDCHEM\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Wed Apr 24 09:02:55 2024
Response via : Initial Calibration

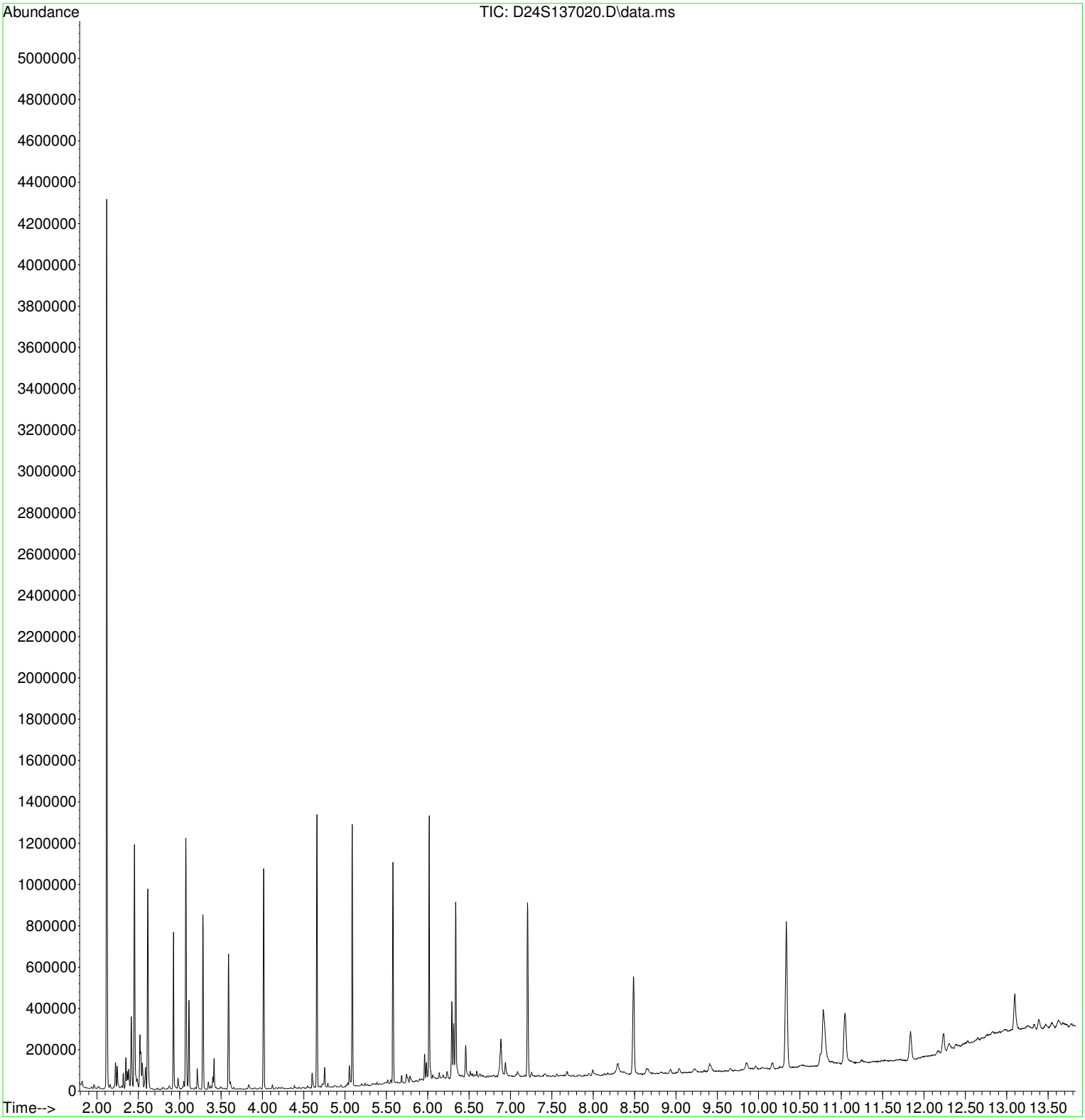
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-D4	3.280	152	84790	40.00	ug/ml	-0.03
19) NAPHTHALENE-d8	4.014	136	322337	40.00	ug/ml	-0.03
35) ACENAPHTHENE-D10	5.088	164	186047	40.00	ug/ml	-0.03
58) PHENANTHRENE-D10	6.017	188	323589	40.00	ug/ml	-0.03
71) CHRYSENE-D12	8.486	240	185939	40.00	ug/ml	-0.05
80) PERYLENE-D12	11.043	264	171660	40.00	ug/ml	-0.05
System Monitoring Compounds						
2) 2-Fluorophenol	2.616	112	176951	85.66	ug/ml	-0.03
Spiked Amount 200.000	Range 30 - 130		Recovery = 42.83%			
3) Phenol-d6	3.074	99	279099	85.19	ug/ml	-0.03
Spiked Amount 200.000	Range 30 - 130		Recovery = 42.59%			
20) Nitrobenzene-d5	3.592	82	146272	48.99	ug/ml	-0.03
Spiked Amount 100.000	Range 30 - 130		Recovery = 48.99%			
36) 2-Fluorobiphenyl	4.660	172	259840	45.52	ug/ml	-0.03
Spiked Amount 100.000	Range 30 - 130		Recovery = 45.52%			
37) 2,4,6-Tribromophenol	5.582	330	65023	67.05	ug/ml	-0.03
Spiked Amount 200.000	Range 30 - 130		Recovery = 33.52%			
72) Terphenyl-d14	7.207	244	224871	59.93	ug/ml	-0.04
Spiked Amount 100.000	Range 30 - 130		Recovery = 59.93%			
Target Compounds						Qvalue
26) Benzoic Acid	3.836	122	2280	1.34	ug/ml	91
74) Pyrene	7.086	202	7871	1.20	ug/ml	85

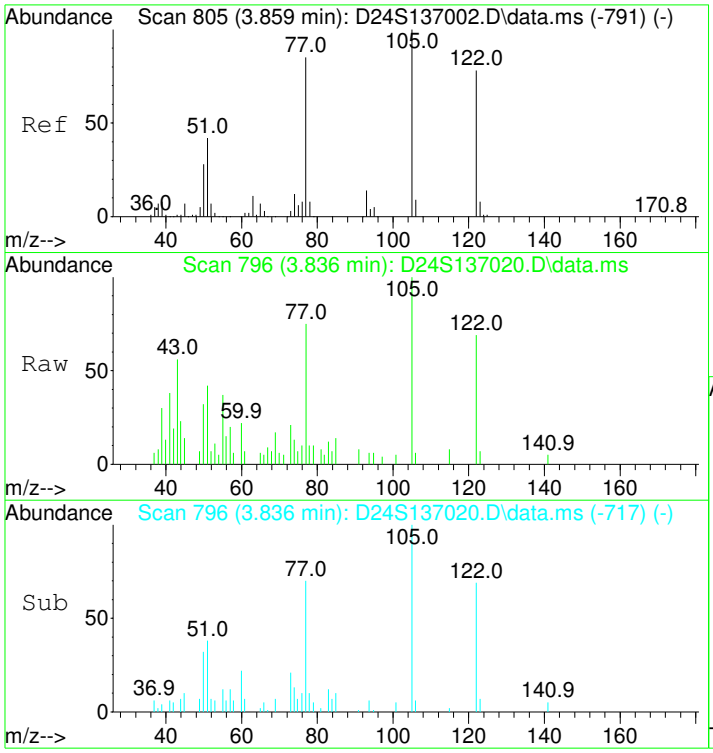
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\D051624\
Data File : D24S137020.D
Acq On : 16 May 2024 6:34 pm
Operator : BGL
Sample : 24E1437-19 Inst : GCMSSV4
Misc :
ALS Vial : 20 Sample Multiplier: 1

505

Quant Time: May 23 12:34:08 2024
Quant Method : C:\MSDCHEM\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Wed Apr 24 09:02:55 2024
Response via : Initial Calibration

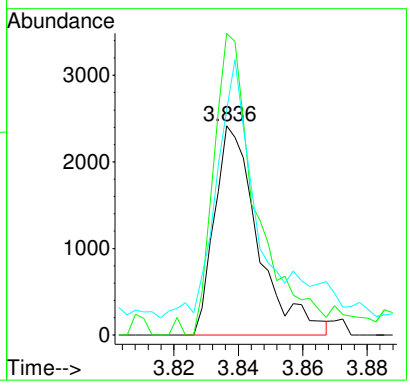


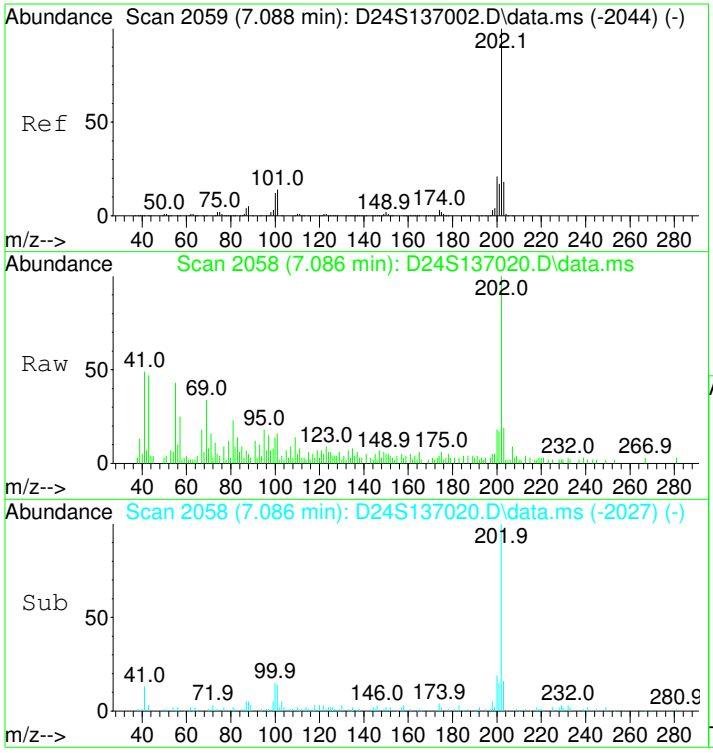


#26
Benzoic Acid
Concen: 1.34 ug/ml
RT: 3.836 min Scan# 796
Delta R.T. -0.047 min
Lab File: D24S137020.D
Acq: 16 May 2024 6:34 pm

Tgt Ion:122 Resp: 2280

Ion	Ratio	Lower	Upper
122	100		
105	143.7	127.2	167.2
77	126.7	89.2	129.2

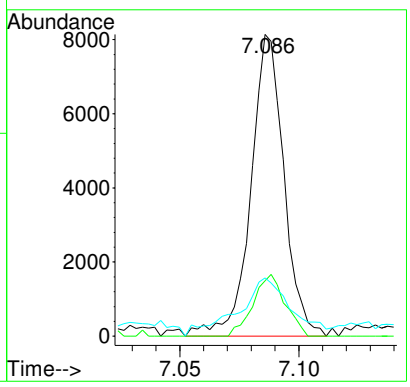




#74
Pyrene
Concen: 1.20 ug/ml
RT: 7.086 min Scan# 2058
Delta R.T. -0.040 min
Lab File: D24S137020.D
Acq: 16 May 2024 6:34 pm

Tgt Ion:202 Resp: 7871

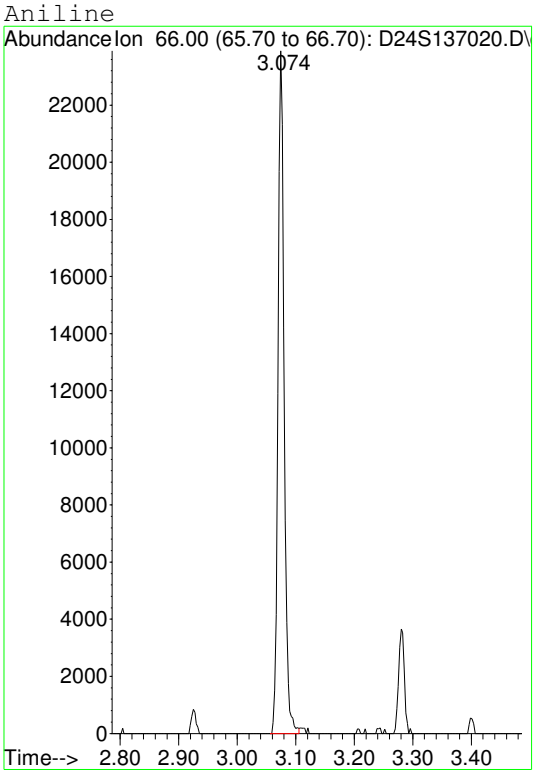
Ion	Ratio	Lower	Upper
202	100		
200	19.7	0.8	40.8
203	31.1	0.0	38.3



Data Path : C:\msdchem\1\DATA\D051624\
Data File : D24S137020.D
Acq On : 16 May 2024 6:34 pm
Operator : BGL
Sample : 24E1437-19
Misc :

Quant Time : Thu May 23 12:34:08 2024
Quant Method : C:\MSDCHEM\1\METHODS\BND02154.M
QLast Update : Wed Apr 24 09:02:55 2024

Original Integration
Aniline



Original Int. Results

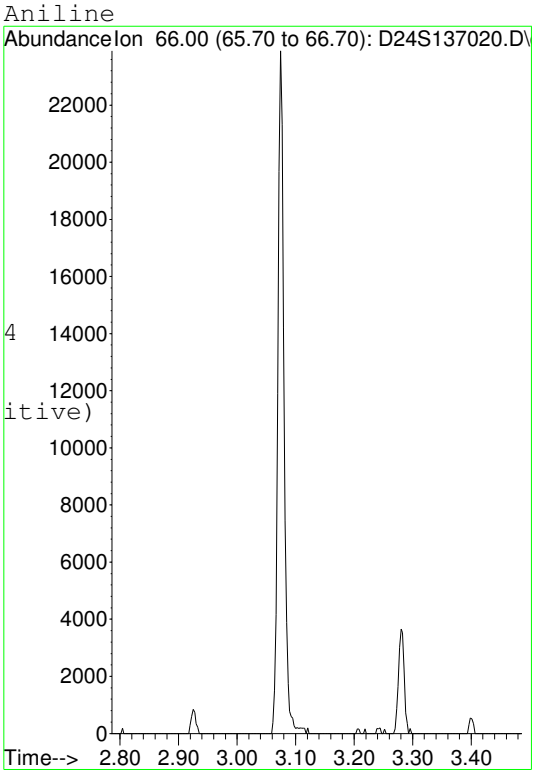
RT : 3.07
Area : 17442
Amount: 11.2463

Manual Int. Results

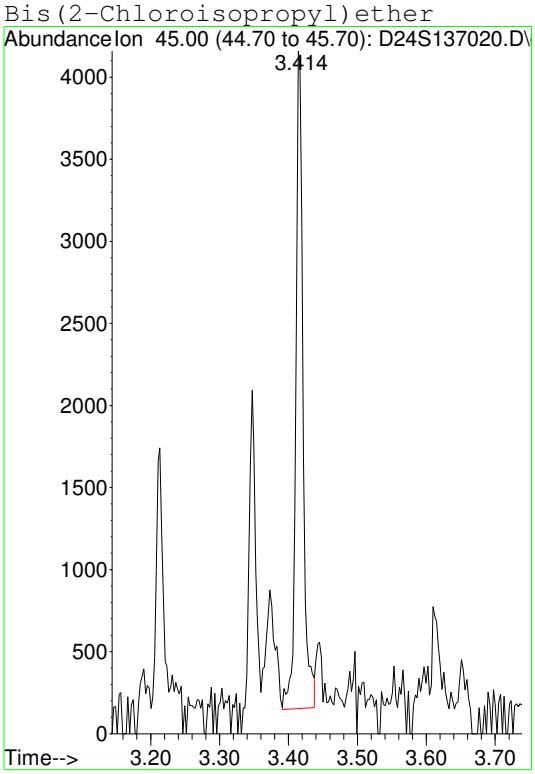
Thu May 23 12:33:31 2024

MIuser: BGL
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
Aniline



Original Integration
Bis(2-Chloroisopropyl)ether



Original Int. Results

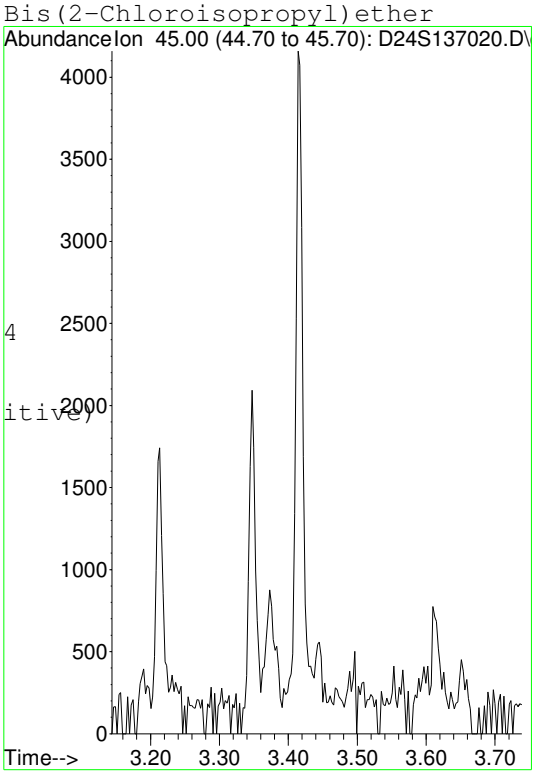
RT : 3.41
Area : 2926
Amount: 1.1535

Manual Int. Results

Thu May 23 12:33:33 2024

MIuser: BGL
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

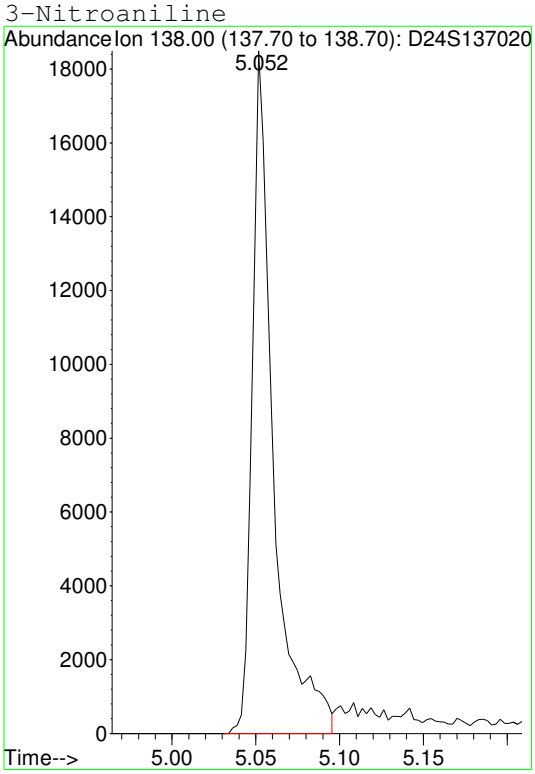
Manual Integration
Bis(2-Chloroisopropyl)ether



Data Path : C:\msdchem\1\DATA\D051624\
Data File : D24S137020.D
Acq On : 16 May 2024 6:34 pm
Operator : BGL
Sample : 24E1437-19
Misc :

Quant Time : Thu May 23 12:34:08 2024
Quant Method : C:\MSDCHEM\1\METHODS\BND02154.M
QLast Update : Wed Apr 24 09:02:55 2024

Original Integration
3-Nitroaniline



Original Int. Results

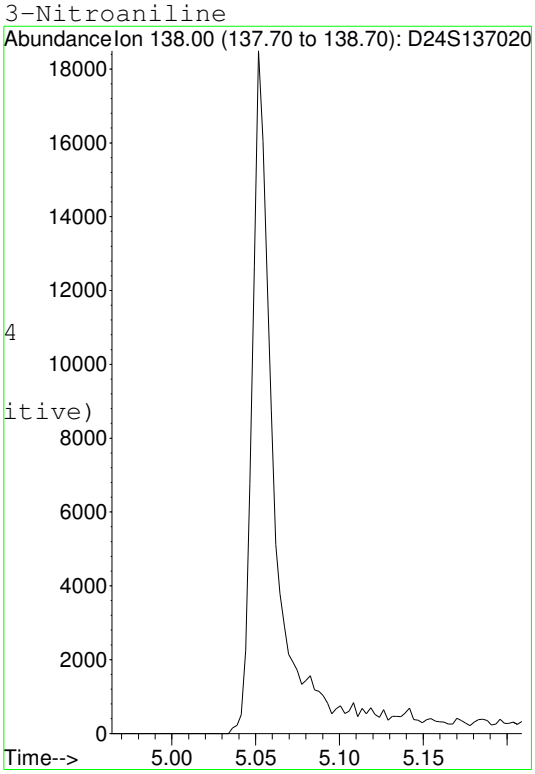
RT : 5.05
Area : 16196
Amount: 12.1613

Manual Int. Results

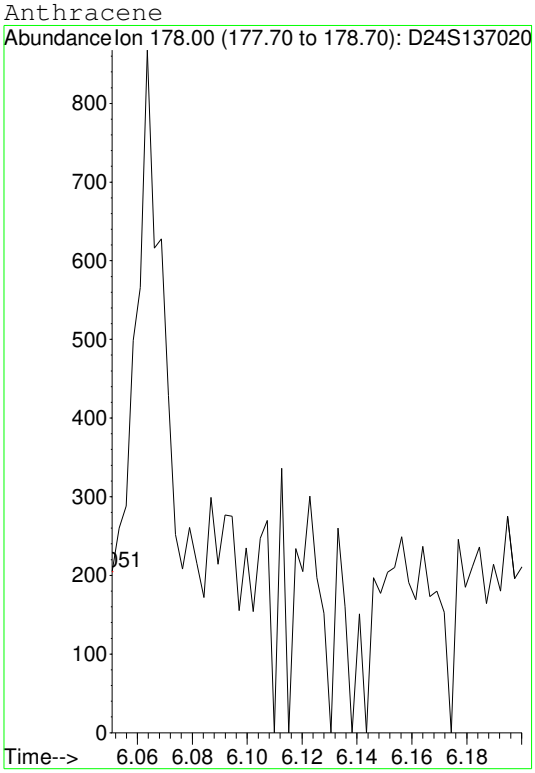
Thu May 23 12:33:38 2024

MIuser: BGL
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
3-Nitroaniline



Original Integration
Anthracene



Original Int. Results

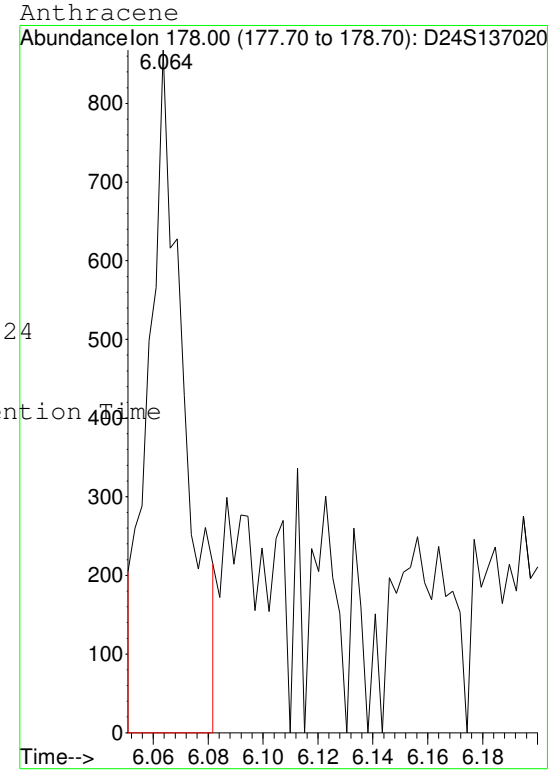
RT : 6.03
Area : 3237
Amount: 0.380312

Manual Int. Results

Thu May 23 12:33:44 2024

MIuser: BGL
Reason: Incorrect Retention Time
RT : 6.06
Area : 786
Amount: 0.0923465

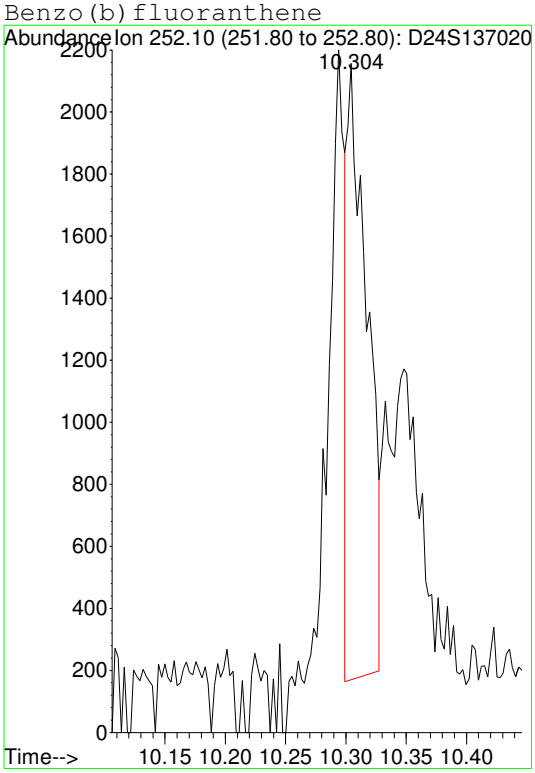
Manual Integration
Anthracene



Data Path : C:\msdchem\1\DATA\D051624\
Data File : D24S137020.D
Acq On : 16 May 2024 6:34 pm
Operator : BGL
Sample : 24E1437-19
Misc :

Quant Time : Thu May 23 12:34:08 2024
Quant Method : C:\MSDCHEM\1\METHODS\BND02154.M
QLast Update : Wed Apr 24 09:02:55 2024

Original Integration
Benzo(b)fluoranthene



Original Int. Results

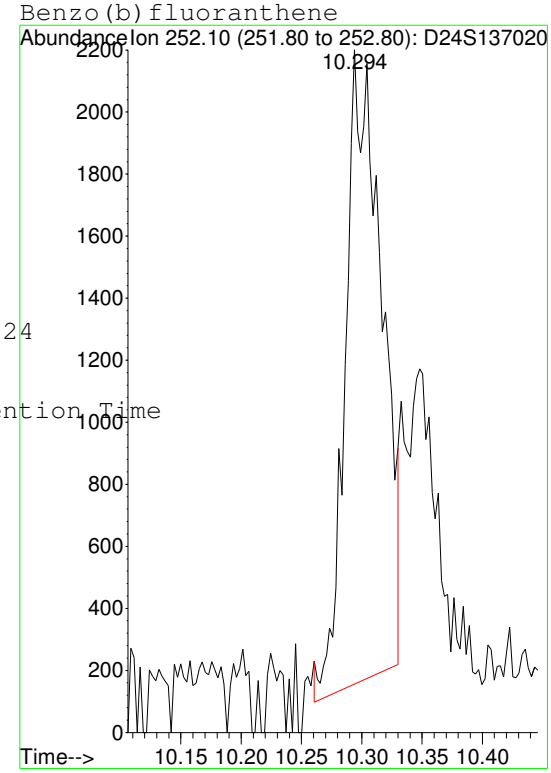
RT : 10.30
Area : 2276
Amount: 0.388064

Manual Int. Results

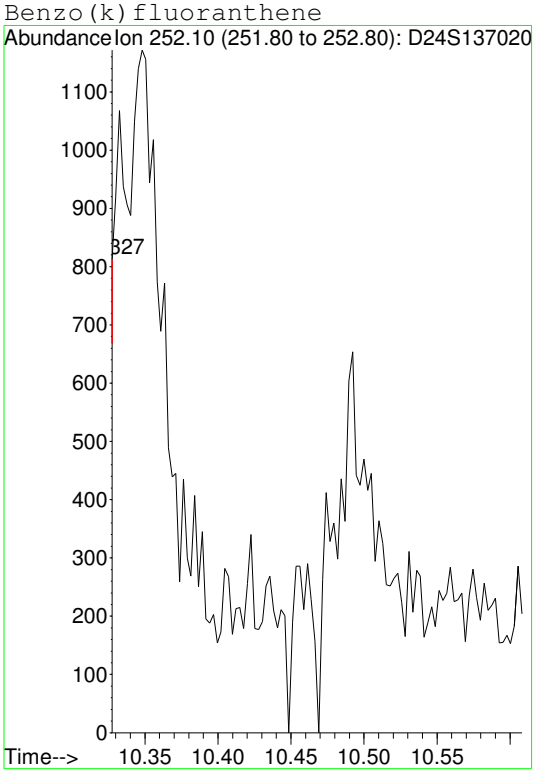
Thu May 23 12:33:53 2024

MIuser: BGL
Reason: Incorrect Retention Time
RT : 10.29
Area : 4248
Amount: 0.724296

Manual Integration
Benzo(b)fluoranthene



Original Integration
Benzo(k)fluoranthene



Original Int. Results

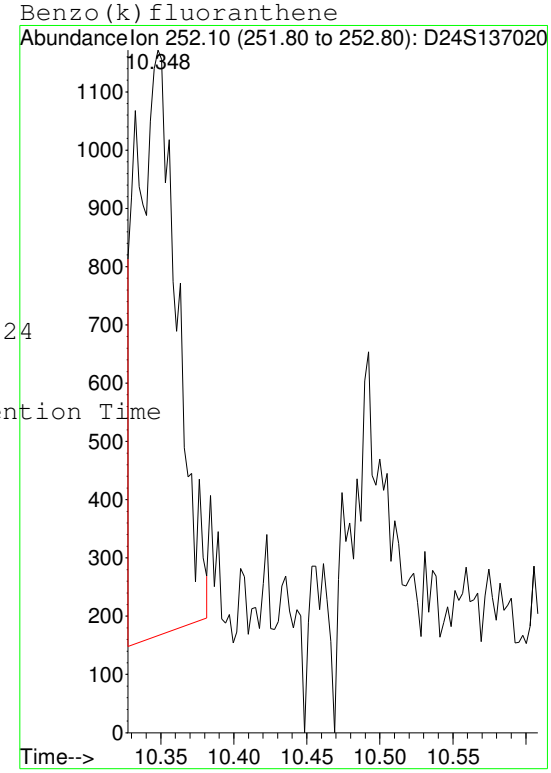
RT : 10.30
Area : 1395
Amount: 0.271742

Manual Int. Results

Thu May 23 12:33:57 2024

MIuser: BGL
Reason: Incorrect Retention Time
RT : 10.35
Area : 2022
Amount: 0.393879

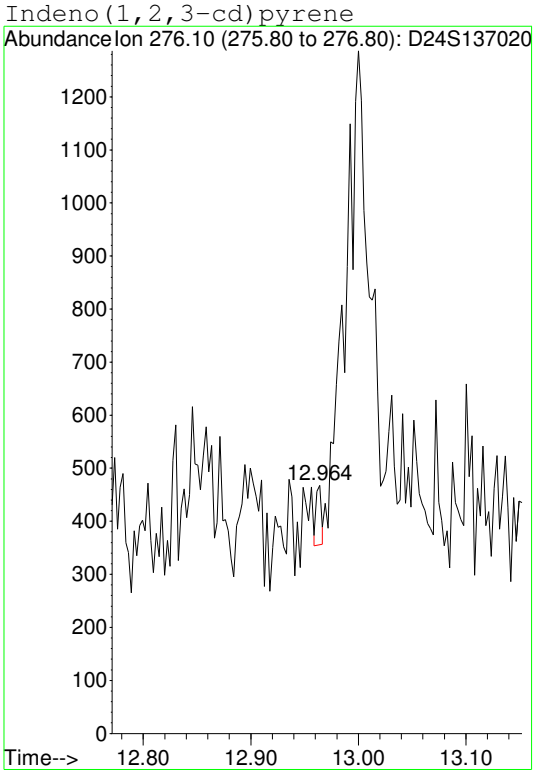
Manual Integration
Benzo(k)fluoranthene



Data Path : C:\msdchem\1\DATA\D051624\
Data File : D24S137020.D
Acq On : 16 May 2024 6:34 pm
Operator : BGL
Sample : 24E1437-19
Misc :

Quant Time : Thu May 23 12:34:08 2024
Quant Method : C:\MSDCHEM\1\METHODS\BND02154.M
QLast Update : Wed Apr 24 09:02:55 2024

Original Integration
Indeno(1,2,3-cd)pyrene



Original Int. Results

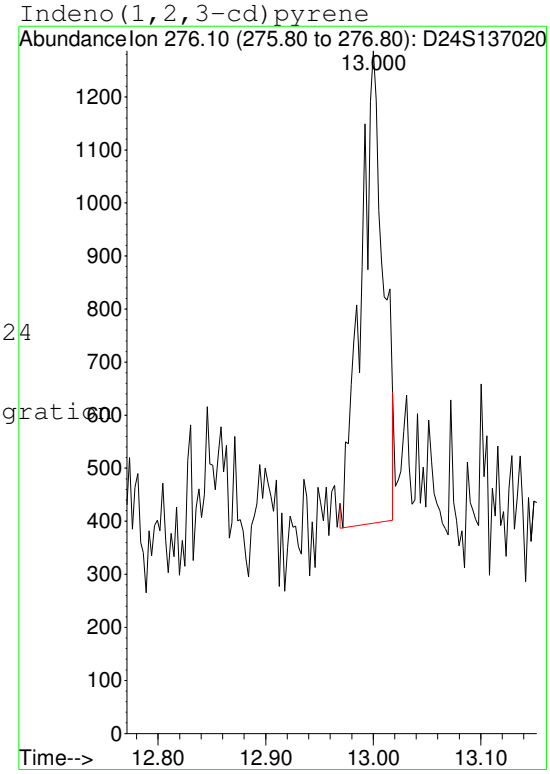
RT : 12.96
Area : 38
Amount: 0.0090931

Manual Int. Results

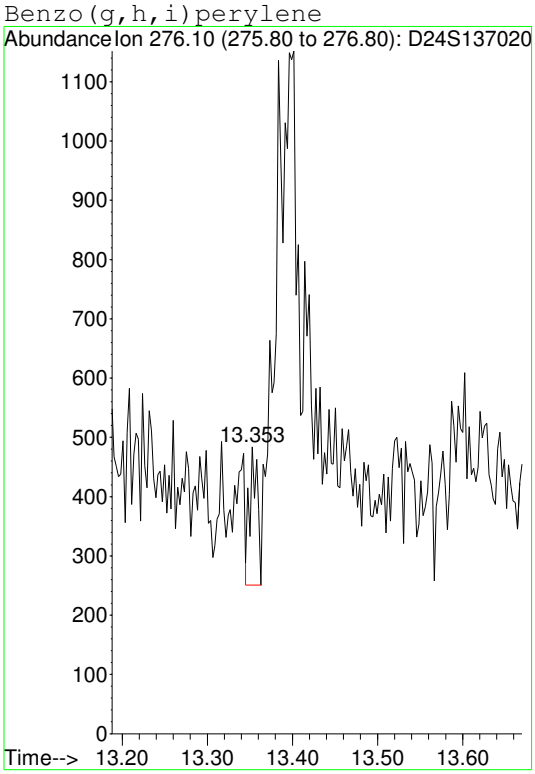
Thu May 23 12:34:03 2024

MIuser: BGL
Reason: Incorrect Integration
RT : 13.00
Area : 1304
Amount: 0.312037

Manual Integration
Indeno(1,2,3-cd)pyrene



Original Integration
Benzo(g,h,i)perylene



Original Int. Results

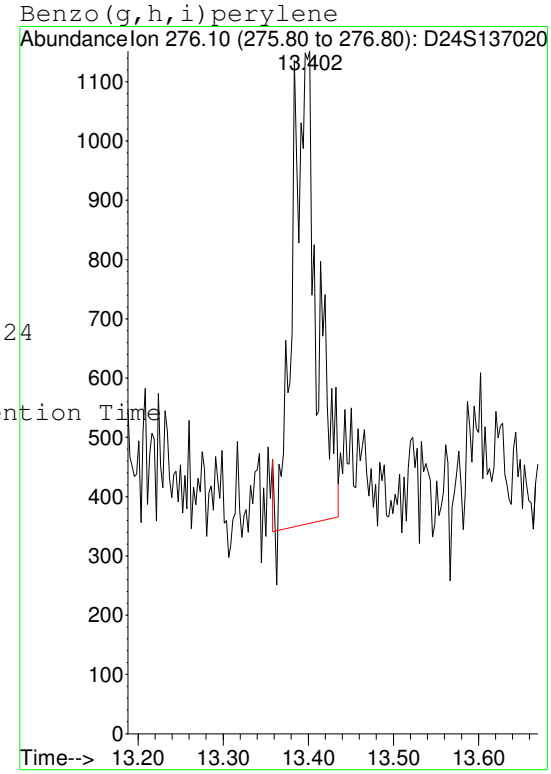
RT : 13.35
Area : 149
Amount: 0.0377993

Manual Int. Results

Thu May 23 12:34:08 2024

MIuser: BGL
Reason: Incorrect Retention Time
RT : 13.40
Area : 1578
Amount: 0.400317

Manual Integration
Benzo(g,h,i)perylene



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D051624\
Data File : D24S137020.D
Acq On : 16 May 2024 6:34 pm
Operator : BGL
Sample : 24E1437-19 Inst : GCMSSV4
Misc :
ALS Vial : 20 Sample Multiplier: 1

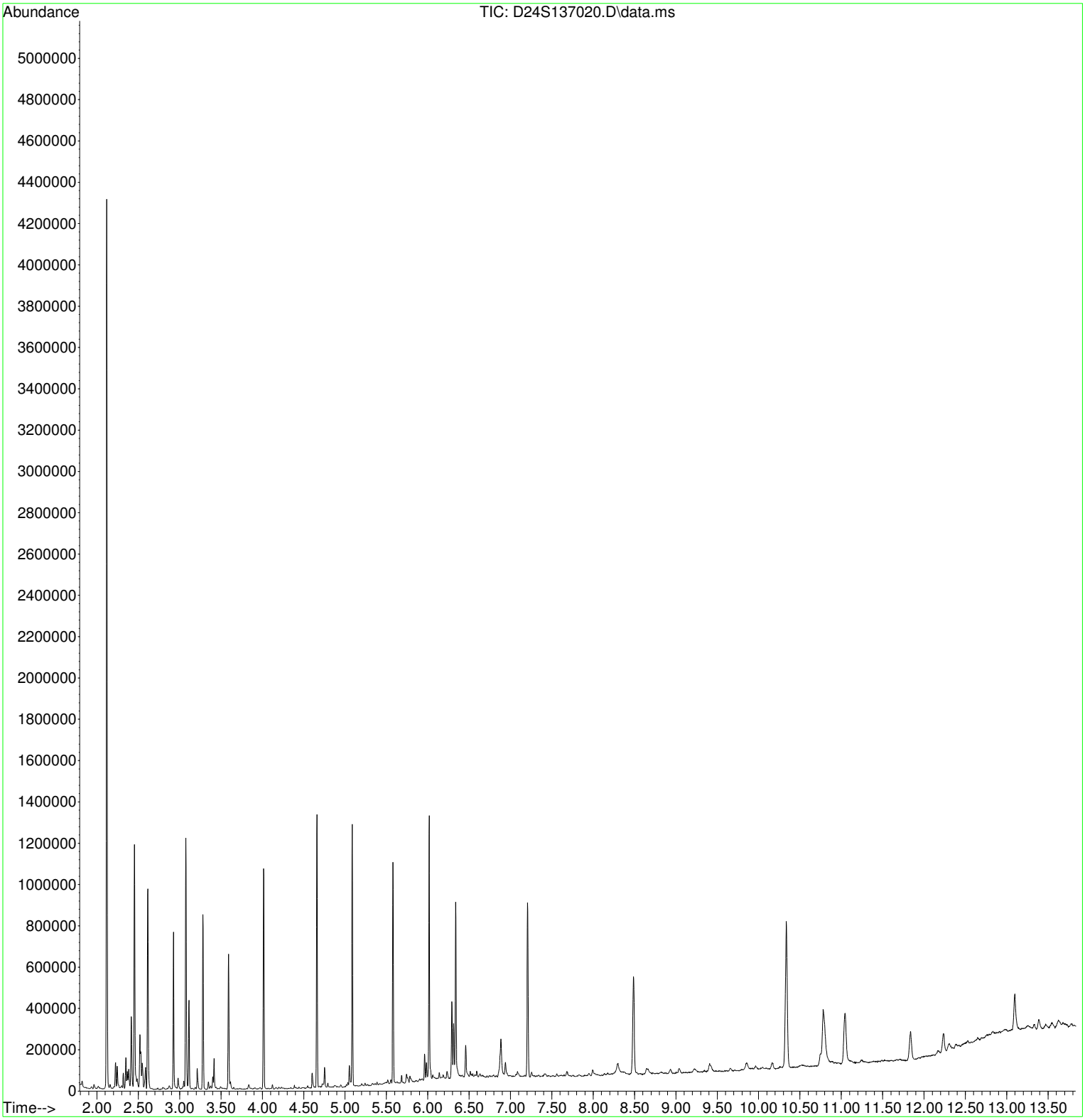
Quant Time: May 23 10:25:40 2024
Quant Method : C:\msdchem\1\METHODS\NCD02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270STD SVMS4 N.C. apx2 extra compds PulseWool
QLast Update : Thu May 23 10:19:14 2024
Response via : Initial Calibration

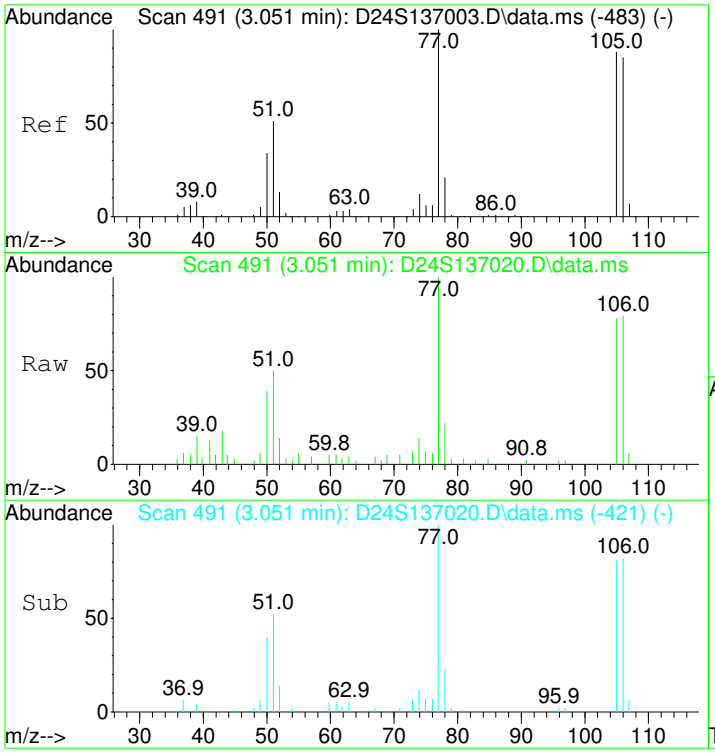
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-D4...	3.280	152	84790	40.00	ug/ml	-0.02
6) NAPHTHALENE-d8 (2)	4.014	136	322337	40.00	ug/ml	-0.03
10) ACENAPHTHENE-D10 (2)	5.088	164	186047	40.00	ug/ml	0.00
16) PHENANTHRENE-D10 (2)	6.017	188	323589	40.00	ug/ml	0.00
17) CHRYSENE-D12 (2)	8.486	240	185939	40.00	ug/ml	-0.04
19) PERYLENE-D12 (2)	11.043	264	171660	40.00	ug/ml	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	2.616	112	176951	0.00	ug/ml	-0.12
Spiked Amount 200.000	Range 30 - 130		Recovery =	0.00%#		
3) Phenol-d6	3.074	99	279099	0.00	ug/ml	-0.11
Spiked Amount 200.000	Range 30 - 130		Recovery =	0.00%#		
7) Nitrobenzene-d5	3.592	82	146272	0.00	ug/ml	0.00
Spiked Amount 100.000	Range 30 - 130		Recovery =	0.00%#		
11) 2-Fluorobiphenyl	4.660	172	259840	0.00	ug/ml	0.03
Spiked Amount 100.000	Range 30 - 130		Recovery =	0.00%#		
12) 2,4,6-Tribromophenol	0.000	330	0	0.00	ug/ml	
Spiked Amount 200.000	Range 30 - 130		Recovery =	0.00%#		
18) Terphenyl-d14	7.207	244	224871	0.00	ug/ml	-0.09
Spiked Amount 100.000	Range 30 - 130		Recovery =	0.00%#		
Target Compounds						Qvalue
4) Benzaldehyde	3.051	106	4833	2.07	ug/ml	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\D051624\
Data File : D24S137020.D
Acq On : 16 May 2024 6:34 pm
Operator : BGL
Sample : 24E1437-19 Inst : GCMSSV4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 23 10:25:40 2024
Quant Method : C:\msdchem\1\METHODS\NCD02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270STD SVMS4 N.C. apx2 extra compds PulseWool
QLast Update : Thu May 23 10:19:14 2024
Response via : Initial Calibration

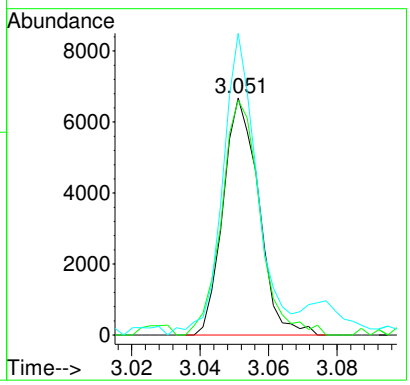




#4
Benzaldehyde
Concen: 2.07 ug/ml
RT: 3.051 min Scan# 491
Delta R.T. -0.019 min
Lab File: D24S137020.D
Acq: 16 May 2024 6:34 pm

Tgt Ion:106 Resp: 4833

Ion	Ratio	Lower	Upper
106	100		
105	106.8	84.9	124.9
77	121.7	93.7	133.7



QC DATA

2 - FORM II

SYSTEM MONITORING COMPOUND SUMMARY

SW-846 8270E

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Instrument:	GCMSSV4

	2,4,6-TBP (30% - 130%)	2-FlBiphenyl (30% - 130%)	2-Fiphenol (30% - 130%)	Nitrobenz-d5 (30% - 130%)	Phenol-d6 (30% - 130%)	Terphnyl-d14 (30% - 130%)
24E1437-02	49.8	61.3	57.7	61.9	55.8	71.3
24E1437-04	51.4	69.4	63.0	71.4	63.9	94.7
24E1437-06	33.9	43.4	40.4	43.1	38.9	58.2
24E1437-12	45.8	55.2	46.5	52.5	49.9	76.1
24E1437-17	26.4*	37.9	33.2	40.1	34.6	50.0
24E1437-19	33.5	45.5	42.8	49.0	42.6	59.9
B374087-BLK1	69.6	84.3	86.1	88.8	86.1	108
B374087-BS1	91.5	102	100	101	98.5	111
B374087-BSD1	86.9	95.4	94.2	94.0	92.1	107
B374087-MS1	40.2	50.6	47.0	51.4	47.9	68.5
B374087-MSD1	38.0	48.6	45.7	48.7	44.7	65.9

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SB1A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Analysis:	SW-846 8270E
Batch:	B374087	Preparation:	SW-846 3546
% Solids:	72.51	Laboratory ID:	B374087-MS1
Initial/Final:	30 g / 1 mL	Sample Lab ID:	24E1437-06
Column:			

ANALYTE	SPIKE ADDED (mg/Kg dry)	SAMPLE CONCENTRATION (mg/Kg dry)	MS CONCENTRATION (mg/Kg dry)	MS % REC.		QC LIMITS REC.
2,3,4,6-Tetrachlorophenol	2.30	ND	0.891	38.8	*	40 - 140
Atrazine	2.30	ND	1.10	47.6		40 - 140
Benzaldehyde	2.30	ND	0.605	26.3	*	40 - 140
Biphenyl	2.30	ND	1.14	49.8		40 - 140
Caprolactam	2.30	ND	1.03	45.0		40 - 140
Acenaphthene	2.30	ND	0.990	43.1		40 - 140
Acenaphthylene	2.30	ND	0.999	43.5		40 - 140
Acetophenone	2.30	ND	1.09	47.3		40 - 140
Aniline	2.30	ND	0.240	10.4	*	40 - 140
Anthracene	2.30	ND	1.07	46.5		40 - 140
Benzo(a)anthracene	2.30	ND	1.13	49.0		40 - 140
Benzo(a)pyrene	2.30	ND	1.05	45.6		40 - 140
Benzo(b)fluoranthene	2.30	ND	1.07	46.8		40 - 140
Benzo(g,h,i)perylene	2.30	ND	0.843	36.7	*	40 - 140
Benzo(k)fluoranthene	2.30	ND	1.17	51.0		40 - 140
Bis(2-chloroethoxy)methane	2.30	ND	1.13	49.2		40 - 140
Bis(2-chloroethyl)ether	2.30	ND	1.15	50.1		40 - 140
Bis(2-chloroisopropyl)ether	2.30	ND	1.57	68.5		40 - 140
Bis(2-Ethylhexyl)phthalate	2.30	ND	1.66	72.1		40 - 140
4-Bromophenylphenylether	2.30	ND	1.03	45.0		40 - 140
Butylbenzylphthalate	2.30	ND	1.50	65.1		40 - 140
Carbazole	2.30	ND	1.09	47.6		40 - 140
4-Chloroaniline	2.30	ND	0.428	18.6	*	40 - 140
4-Chloro-3-methylphenol	2.30	ND	1.11	48.3		30 - 130
2-Chloronaphthalene	2.30	ND	0.924	40.2		40 - 140
2-Chlorophenol	2.30	ND	1.01	43.8		30 - 130
4-Chlorophenylphenylether	2.30	ND	1.05	45.8		40 - 140
Chrysene	2.30	ND	1.10	48.0		40 - 140
Dibenz(a,h)anthracene	2.30	ND	1.04	45.4		40 - 140
Dibenzofuran	2.30	ND	1.10	47.9		40 - 140

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SB1A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Analysis:	SW-846 8270E
Batch:	B374087	Preparation:	SW-846 3546
% Solids:	72.51	Laboratory ID:	B374087-MS1
Initial/Final:	30 g / 1 mL	Sample Lab ID:	24E1437-06
Column:			

ANALYTE	SPIKE ADDED (mg/Kg dry)	SAMPLE CONCENTRATION (mg/Kg dry)	MS CONCENTRATION (mg/Kg dry)	MS % REC.		QC LIMITS REC.
Di-n-butylphthalate	2.30	ND	1.22	52.9		40 - 140
3,3-Dichlorobenzidine	2.30	ND	0.162	7.04	*	40 - 140
2,4-Dichlorophenol	2.30	ND	0.964	41.9		30 - 130
Diethylphthalate	2.30	ND	1.15	49.8		40 - 140
2,4-Dimethylphenol	2.30	ND	0.360	15.7	*	30 - 130
Dimethylphthalate	2.30	ND	1.12	48.7		40 - 140
4,6-Dinitro-2-methylphenol	2.30	ND	1.04	45.2		30 - 130
2,4-Dinitrophenol	2.30	ND	0.860	37.4		30 - 130
2,4-Dinitrotoluene	2.30	ND	1.19	51.9		40 - 140
2,6-Dinitrotoluene	2.30	ND	1.22	53.2		40 - 140
Di-n-octylphthalate	2.30	ND	1.53	66.5		40 - 140
Fluoranthene	2.30	0.0708	0.988	39.9	*	40 - 140
Fluorene	2.30	ND	1.06	46.3		40 - 140
Hexachlorobenzene	2.30	ND	0.982	42.7		40 - 140
Hexachlorobutadiene	2.30	ND	0.922	40.1		40 - 140
Hexachlorocyclopentadiene	2.30	ND	0.00506	0.220	*	30 - 130
Hexachloroethane	2.30	ND	0.753	32.7	*	40 - 140
Indeno(1,2,3-cd)pyrene	2.30	ND	0.932	40.6		40 - 140
Isophorone	2.30	ND	1.15	50.0		40 - 140
1-Methylnaphthalene	2.30	ND	1.05	45.6		40 - 140
2-Methylnaphthalene	2.30	ND	1.04	45.5		40 - 140
2-Methylphenol	2.30	ND	0.916	39.9		30 - 130
3/4-Methylphenol	2.30	ND	1.04	45.2		30 - 130
Naphthalene	2.30	ND	1.04	45.1		40 - 140
2-Nitroaniline	2.30	ND	1.38	60.2		40 - 140
3-Nitroaniline	2.30	ND	1.53	66.6		40 - 140
4-Nitroaniline	2.30	ND	1.04	45.1		40 - 140
Nitrobenzene	2.30	ND	1.08	46.9		40 - 140
2-Nitrophenol	2.30	ND	1.10	47.9		30 - 130
4-Nitrophenol	2.30	ND	1.28	55.9		30 - 130

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SB1A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Analysis:	SW-846 8270E
Batch:	B374087	Preparation:	SW-846 3546
% Solids:	72.51	Laboratory ID:	B374087-MS1
Initial/Final:	30 g / 1 mL	Sample Lab ID:	24E1437-06
Column:			

ANALYTE	SPIKE ADDED (mg/Kg dry)	SAMPLE CONCENTRATION (mg/Kg dry)	MS CONCENTRATION (mg/Kg dry)	MS % REC.		QC LIMITS REC.
N-Nitrosodiphenylamine/Diphenylamine	2.30	ND	1.08	47.1		40 - 140
N-Nitrosodi-n-propylamine	2.30	ND	1.18	51.2		40 - 140
Pentachlorophenol	2.30	ND	0.624	27.1	*	30 - 130
Phenanthrene	2.30	ND	1.10	47.7		40 - 140
Phenol	2.30	ND	1.05	45.9		30 - 130
Pyrene	2.30	0.0823	1.39	56.7		40 - 140
Pyridine	2.30	ND	0.548	23.8	*	40 - 140
1,2,4,5-Tetrachlorobenzene	2.30	ND	0.967	42.1		40 - 140
2,4,5-Trichlorophenol	2.30	ND	1.05	45.6		30 - 130
2,4,6-Trichlorophenol	2.30	ND	0.957	41.6		30 - 130

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SB1A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Analysis:	SW-846 8270E
Batch:	B374087	Preparation:	SW-846 3546
% Solids:	72.51	Laboratory ID:	B374087-MSD1
Initial/Final:	30 g / 1 mL	Sample Lab ID:	24E1437-06
Column:			

ANALYTE	SPIKE ADDED (mg/Kg dry)	MSD CONCENTRATION (mg/Kg dry)	MSD % REC. #		% RPD	QC LIMITS RPD	QC LIMITS REC.
2,3,4,6-Tetrachlorophenol	2.30	0.845	36.8	*	5.29	30	40 - 140
Atrazine	2.30	1.04	45.4		4.77	30	40 - 140
Benzaldehyde	2.30	0.633	27.6	*	4.60	30	40 - 140
Biphenyl	2.30	1.10	47.9		3.77	30	40 - 140
Caprolactam	2.30	0.973	42.3		6.14	30	40 - 140
Acenaphthene	2.30	0.949	41.3		4.27	30	40 - 140
Acenaphthylene	2.30	0.958	41.7		4.23	30	40 - 140
Acetophenone	2.30	1.05	45.9		3.09	30	40 - 140
Aniline	2.30	0.234	10.2	*	2.53	30	40 - 140
Anthracene	2.30	1.01	44.1		5.16	30	40 - 140
Benzo(a)anthracene	2.30	1.05	45.7		7.01	30	40 - 140
Benzo(a)pyrene	2.30	0.959	41.7		8.88	30	40 - 140
Benzo(b)fluoranthene	2.30	0.968	42.1		10.4	30	40 - 140
Benzo(g,h,i)perylene	2.30	0.764	33.2	*	9.84	30	40 - 140
Benzo(k)fluoranthene	2.30	1.12	48.7		4.53	30	40 - 140
Bis(2-chloroethoxy)methane	2.30	1.09	47.3		3.86	30	40 - 140
Bis(2-chloroethyl)ether	2.30	1.08	47.2		6.09	30	40 - 140
Bis(2-chloroisopropyl)ether	2.30	1.43	62.3		9.42	30	40 - 140
Bis(2-Ethylhexyl)phthalate	2.30	1.53	66.7		7.70	30	40 - 140
4-Bromophenylphenylether	2.30	1.02	44.5		1.12	30	40 - 140
Butylbenzylphthalate	2.30	1.38	60.1		7.98	30	40 - 140
Carbazole	2.30	1.02	44.5		6.60	30	40 - 140
4-Chloroaniline	2.30	0.436	19.0	*	2.02	30	40 - 140
4-Chloro-3-methylphenol	2.30	1.05	45.5		5.89	30	30 - 130
2-Chloronaphthalene	2.30	0.899	39.1	*	2.72	30	40 - 140
2-Chlorophenol	2.30	0.992	43.1		1.47	30	30 - 130
4-Chlorophenylphenylether	2.30	1.03	44.8		2.12	30	40 - 140
Chrysene	2.30	1.04	45.3		5.75	30	40 - 140
Dibenz(a,h)anthracene	2.30	0.889	38.7	*	15.9	30	40 - 140
Dibenzofuran	2.30	1.05	45.8		4.52	30	40 - 140

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SB1A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Analysis:	SW-846 8270E
Batch:	B374087	Preparation:	SW-846 3546
% Solids:	72.51	Laboratory ID:	B374087-MSD1
Initial/Final:	30 g / 1 mL	Sample Lab ID:	24E1437-06
Column:			

ANALYTE	SPIKE ADDED (mg/Kg dry)	MSD CONCENTRATION (mg/Kg dry)	MSD % REC. #		% RPD	QC LIMITS RPD	QC LIMITS REC.
Di-n-butylphthalate	2.30	1.12	48.7		8.23	30	40 - 140
3,3-Dichlorobenzidine	2.30	0.176	7.64	*	8.17	30	40 - 140
2,4-Dichlorophenol	2.30	0.943	41.0		2.12	30	30 - 130
Diethylphthalate	2.30	1.08	46.8		6.25	30	40 - 140
2,4-Dimethylphenol	2.30	0.267	11.6	*	29.9	30	30 - 130
Dimethylphthalate	2.30	1.09	47.3		2.92	30	40 - 140
4,6-Dinitro-2-methylphenol	2.30	0.984	42.8		5.41	30	30 - 130
2,4-Dinitrophenol	2.30	0.841	36.6		2.16	30	30 - 130
2,4-Dinitrotoluene	2.30	1.15	50.1		3.53	30	40 - 140
2,6-Dinitrotoluene	2.30	1.19	51.8		2.74	30	40 - 140
Di-n-octylphthalate	2.30	1.34	58.2		13.3	30	40 - 140
Fluoranthene	2.30	0.952	38.3	*	3.74	30	40 - 140
Fluorene	2.30	1.01	43.9		5.28	30	40 - 140
Hexachlorobenzene	2.30	0.970	42.2		1.27	30	40 - 140
Hexachlorobutadiene	2.30	0.971	42.2		5.15	30	40 - 140
Hexachlorocyclopentadiene	2.30	0.00965	0.420	*		30	30 - 130
Hexachloroethane	2.30	0.773	33.6	*	2.65	30	40 - 140
Indeno(1,2,3-cd)pyrene	2.30	0.825	35.9	*	12.2	30	40 - 140
Isophorone	2.30	1.09	47.4		5.38	30	40 - 140
1-Methylnaphthalene	2.30	1.03	44.7		1.99	30	40 - 140
2-Methylnaphthalene	2.30	1.03	44.7		1.60	30	40 - 140
2-Methylphenol	2.30	0.848	36.9		7.71	30	30 - 130
3/4-Methylphenol	2.30	0.954	41.5		8.44	30	30 - 130
Naphthalene	2.30	1.03	44.9		0.355	30	40 - 140
2-Nitroaniline	2.30	1.21	52.5		13.7	30	40 - 140
3-Nitroaniline	2.30	1.38	60.0		10.4	30	40 - 140
4-Nitroaniline	2.30	1.02	44.2		2.11	30	40 - 140
Nitrobenzene	2.30	1.02	44.3		5.61	30	40 - 140
2-Nitrophenol	2.30	1.09	47.4		1.13	30	30 - 130
4-Nitrophenol	2.30	1.20	52.3		6.65	30	30 - 130

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SB1A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Analysis:	SW-846 8270E
Batch:	B374087	Preparation:	SW-846 3546
% Solids:	72.51	Laboratory ID:	B374087-MSD1
Initial/Final:	30 g / 1 mL	Sample Lab ID:	24E1437-06
Column:			

ANALYTE	SPIKE ADDED (mg/Kg dry)	MSD CONCENTRATION (mg/Kg dry)	MSD % REC. #		% RPD	QC LIMITS RPD	QC LIMITS REC.
N-Nitrosodiphenylamine/Diphenylamine	2.30	1.01	43.8		7.35	30	40 - 140
N-Nitrosodi-n-propylamine	2.30	1.11	48.1		6.20	30	40 - 140
Pentachlorophenol	2.30	0.599	26.1	*	3.98	30	30 - 130
Phenanthrene	2.30	1.04	45.2		5.43	30	40 - 140
Phenol	2.30	1.00	43.5		5.23	30	30 - 130
Pyrene	2.30	1.33	54.2		4.30	30	40 - 140
Pyridine	2.30	0.573	24.9	*	4.43	30	40 - 140
1,2,4,5-Tetrachlorobenzene	2.30	0.968	42.1		0.0950	30	40 - 140
2,4,5-Trichlorophenol	2.30	1.02	44.5		2.49	30	30 - 130
2,4,6-Trichlorophenol	2.30	0.924	40.2		3.52	30	30 - 130

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

SW-846 8270E

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Preparation:	SW-846 3546
Batch:	B374087	Laboratory ID:	B374087-BS1
Column:		Initial/Final:	30.62 g / 1 mL

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCS CONCENTRATION (mg/Kg wet)	LCS % REC.		QC LIMITS REC.
2,3,4,6-Tetrachlorophenol	1.63	1.27	77.8		40 - 140
Atrazine	1.63	1.53	93.7		40 - 140
Benzaldehyde	1.63	0.884	54.2		40 - 140
Biphenyl	1.63	1.61	98.7		40 - 140
Caprolactam	1.63	1.33	81.6		40 - 140
Acenaphthene	1.63	1.37	83.9		40 - 140
Acenaphthylene	1.63	1.39	85.1		40 - 140
Acetophenone	1.63	1.50	91.8		40 - 140
Aniline	1.63	0.831	50.9		10 - 140
Anthracene	1.63	1.50	92.1		40 - 140
Benzo(a)anthracene	1.63	1.50	91.8		40 - 140
Benzo(a)pyrene	1.63	1.49	91.1		40 - 140
Benzo(b)fluoranthene	1.63	1.50	92.2		40 - 140
Benzo(g,h,i)perylene	1.63	1.66	101		40 - 140
Benzo(k)fluoranthene	1.63	1.58	97.0		40 - 140
Bis(2-chloroethoxy)methane	1.63	1.59	97.1		40 - 140
Bis(2-chloroethyl)ether	1.63	1.62	99.2		40 - 140
Bis(2-chloroisopropyl)ether	1.63	2.22	136		40 - 140
Bis(2-Ethylhexyl)phthalate	1.63	2.49	153	*	40 - 140
4-Bromophenylphenylether	1.63	1.50	91.9		40 - 140
Butylbenzylphthalate	1.63	1.93	118		40 - 140
Carbazole	1.63	1.48	90.8		40 - 140
4-Chloroaniline	1.63	0.904	55.4		10 - 140
4-Chloro-3-methylphenol	1.63	1.51	92.2		30 - 130
2-Chloronaphthalene	1.63	1.36	83.1		40 - 140
2-Chlorophenol	1.63	1.46	89.5		30 - 130
4-Chlorophenylphenylether	1.63	1.51	92.8		40 - 140
Chrysene	1.63	1.46	89.4		40 - 140
Dibenz(a,h)anthracene	1.63	1.85	113		40 - 140
Dibenzofuran	1.63	1.52	93.0		40 - 140
Di-n-butylphthalate	1.63	1.93	118		40 - 140
3,3-Dichlorobenzidine	1.63	1.09	66.6		20 - 140
2,4-Dichlorophenol	1.63	1.35	83.0		30 - 130
Diethylphthalate	1.63	1.66	102		40 - 140
2,4-Dimethylphenol	1.63	0.838	51.3		30 - 130
Dimethylphthalate	1.63	1.52	93.4		40 - 140
4,6-Dinitro-2-methylphenol	1.63	1.52	93.3		30 - 130

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

SW-846 8270E

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Preparation:	SW-846 3546
Batch:	B374087	Laboratory ID:	B374087-BS1
Column:		Initial/Final:	30.62 g / 1 mL

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCS CONCENTRATION (mg/Kg wet)	LCS % REC.		QC LIMITS REC.
2,4-Dinitrophenol	1.63	0.907	55.6		30 - 130
2,4-Dinitrotoluene	1.63	1.59	97.7		40 - 140
2,6-Dinitrotoluene	1.63	1.64	100		40 - 140
Di-n-octylphthalate	1.63	2.43	149	*	40 - 140
Fluoranthene	1.63	1.47	89.8		40 - 140
Fluorene	1.63	1.48	90.4		40 - 140
Hexachlorobenzene	1.63	1.37	84.1		40 - 140
Hexachlorobutadiene	1.63	1.33	81.7		40 - 140
Hexachlorocyclopentadiene	1.63	0.298	18.3	*	40 - 140
Hexachloroethane	1.63	1.41	86.1		40 - 140
Indeno(1,2,3-cd)pyrene	1.63	1.78	109		40 - 140
Isophorone	1.63	1.60	97.9		40 - 140
1-Methylnaphthalene	1.63	1.45	88.6		40 - 140
2-Methylnaphthalene	1.63	1.47	89.7		40 - 140
2-Methylphenol	1.63	1.46	89.7		30 - 130
3/4-Methylphenol	1.63	1.63	99.8		30 - 130
Naphthalene	1.63	1.44	88.3		40 - 140
2-Nitroaniline	1.63	1.75	107		40 - 140
3-Nitroaniline	1.63	1.39	84.9		30 - 140
4-Nitroaniline	1.63	1.51	92.8		40 - 140
Nitrobenzene	1.63	1.48	90.5		40 - 140
2-Nitrophenol	1.63	1.50	91.6		30 - 130
4-Nitrophenol	1.63	1.59	97.4		30 - 130
N-Nitrosodiphenylamine/Diphenylamine	1.63	1.64	100		40 - 140
N-Nitrosodi-n-propylamine	1.63	1.71	105		40 - 140
Pentachlorophenol	1.63	1.02	62.5		30 - 130
Phenanthrene	1.63	1.50	91.9		40 - 140
Phenol	1.63	1.50	91.9		30 - 130
Pyrene	1.63	1.44	88.4		40 - 140
Pyridine	1.63	0.801	49.1		30 - 140
1,2,4,5-Tetrachlorobenzene	1.63	1.38	84.3		40 - 140
2,4,5-Trichlorophenol	1.63	1.44	88.0		30 - 130
2,4,6-Trichlorophenol	1.63	1.41	86.2		30 - 130

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCSD CONCENTRATION (mg/Kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

SW-846 8270E

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Preparation:	SW-846 3546
Batch:	B374087	Laboratory ID:	B374087-BSD1
Column:		Initial/Final:	30.45 g / 1 mL

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCSD CONCENTRATION (mg/Kg wet)	LCSD % REC. #		% RPD #	QC LIMITS RPD	QC LIMITS REC.
2,3,4,6-Tetrachlorophenol	1.64	1.24	75.6		2.29	20	40 - 140
Atrazine	1.64	1.49	91.0		2.45	30	40 - 140
Benzaldehyde	1.64	0.859	52.3		2.86	20	40 - 140
Biphenyl	1.64	1.54	93.7		4.66	20	40 - 140
Caprolactam	1.64	1.27	77.5		4.55	20	40 - 140
Acenaphthene	1.64	1.33	80.9		3.13	30	40 - 140
Acenaphthylene	1.64	1.35	82.3		2.76	30	40 - 140
Acetophenone	1.64	1.42	86.3		5.62	30	40 - 140
Aniline	1.64	0.751	45.8		10.0	50	10 - 140
Anthracene	1.64	1.48	90.4		1.35	30	40 - 140
Benzo(a)anthracene	1.64	1.49	90.7		0.736	30	40 - 140
Benzo(a)pyrene	1.64	1.48	90.0		0.658	30	40 - 140
Benzo(b)fluoranthene	1.64	1.46	89.2		2.71	30	40 - 140
Benzo(g,h,i)perylene	1.64	1.64	100		0.733	30	40 - 140
Benzo(k)fluoranthene	1.64	1.58	96.5		0.0192	30	40 - 140
Bis(2-chloroethoxy)methane	1.64	1.55	94.1		2.60	30	40 - 140
Bis(2-chloroethyl)ether	1.64	1.57	95.7		3.12	30	40 - 140
Bis(2-chloroisopropyl)ether	1.64	2.13	130		3.98	30	40 - 140
Bis(2-Ethylhexyl)phthalate	1.64	2.43	148	*	2.42	30	40 - 140
4-Bromophenylphenylether	1.64	1.44	87.6		4.28	30	40 - 140
Butylbenzylphthalate	1.64	1.91	116		1.29	30	40 - 140
Carbazole	1.64	1.48	90.2		0.173	30	40 - 140
4-Chloroaniline	1.64	0.827	50.4		8.94	30	10 - 140
4-Chloro-3-methylphenol	1.64	1.47	89.2		2.75	30	30 - 130
2-Chloronaphthalene	1.64	1.19	72.3		13.3	30	40 - 140
2-Chlorophenol	1.64	1.41	85.8		3.64	30	30 - 130
4-Chlorophenylphenylether	1.64	1.46	89.1		3.42	30	40 - 140
Chrysene	1.64	1.46	89.1		0.198	30	40 - 140
Dibenz(a,h)anthracene	1.64	1.83	111		0.959	30	40 - 140
Dibenzofuran	1.64	1.47	89.7		3.06	30	40 - 140
Di-n-butylphthalate	1.64	1.93	118		0.0135	30	40 - 140
3,3-Dichlorobenzidine	1.64	1.00	60.9		8.36	50	20 - 140
2,4-Dichlorophenol	1.64	1.30	79.3		3.95	30	30 - 130
Diethylphthalate	1.64	1.60	97.4		3.66	30	40 - 140
2,4-Dimethylphenol	1.64	0.801	48.8		4.56	30	30 - 130
Dimethylphthalate	1.64	1.48	90.0		3.15	30	40 - 140
4,6-Dinitro-2-methylphenol	1.64	1.56	94.9		2.28	30	30 - 130

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

SW-846 8270E

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Preparation:	SW-846 3546
Batch:	B374087	Laboratory ID:	B374087-BSD1
Column:		Initial/Final:	30.45 g / 1 mL

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCSD CONCENTRATION (mg/Kg wet)	LCSD % REC. #		% RPD #	QC LIMITS RPD	QC LIMITS REC.
2,4-Dinitrophenol	1.64	0.902	54.9		0.565	30	30 - 130
2,4-Dinitrotoluene	1.64	1.57	95.3		1.87	30	40 - 140
2,6-Dinitrotoluene	1.64	1.61	97.8		2.05	30	40 - 140
Di-n-octylphthalate	1.64	2.35	143	*	3.43	30	40 - 140
Fluoranthene	1.64	1.47	89.7		0.490	30	40 - 140
Fluorene	1.64	1.42	86.6		3.74	30	40 - 140
Hexachlorobenzene	1.64	1.37	83.2		0.567	30	40 - 140
Hexachlorobutadiene	1.64	1.27	77.1		5.29	30	40 - 140
Hexachlorocyclopentadiene	1.64	0.240	14.6	*	21.7	30	40 - 140
Hexachloroethane	1.64	1.37	83.6		2.48	30	40 - 140
Indeno(1,2,3-cd)pyrene	1.64	1.74	106		2.63	30	40 - 140
Isophorone	1.64	1.53	92.9		4.68	30	40 - 140
1-Methylnaphthalene	1.64	1.38	84.3		4.37	30	40 - 140
2-Methylnaphthalene	1.64	1.39	84.4		5.55	30	40 - 140
2-Methylphenol	1.64	1.42	86.2		3.40	30	30 - 130
3/4-Methylphenol	1.64	1.55	94.3		5.07	30	30 - 130
Naphthalene	1.64	1.38	84.1		4.29	30	40 - 140
2-Nitroaniline	1.64	1.71	104		2.13	30	40 - 140
3-Nitroaniline	1.64	1.35	82.0		2.99	30	30 - 140
4-Nitroaniline	1.64	1.51	91.7		0.614	30	40 - 140
Nitrobenzene	1.64	1.43	86.9		3.43	30	40 - 140
2-Nitrophenol	1.64	1.44	87.6		3.91	30	30 - 130
4-Nitrophenol	1.64	1.57	95.7		1.29	50	30 - 130
N-Nitrosodiphenylamine/Diphenylamine	1.64	1.60	97.3		2.46	30	40 - 140
N-Nitrosodi-n-propylamine	1.64	1.61	97.9		6.19	30	40 - 140
Pentachlorophenol	1.64	1.03	62.8		1.04	30	30 - 130
Phenanthrene	1.64	1.48	89.9		1.58	30	40 - 140
Phenol	1.64	1.45	88.3		3.53	30	30 - 130
Pyrene	1.64	1.44	87.4		0.581	30	40 - 140
Pyridine	1.64	0.811	49.4		1.21	30	30 - 140
1,2,4,5-Tetrachlorobenzene	1.64	1.31	79.9		4.85	30	40 - 140
2,4,5-Trichlorophenol	1.64	1.39	84.6		3.36	30	30 - 130
2,4,6-Trichlorophenol	1.64	1.36	82.8		3.49	30	30 - 130

4 - FORM IV
METHOD BLANK SUMMARY

SW-846 8270E

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Blank ID:	B374087-BLK1	Batch:	B374087
Prepared:	05/12/2024 07:21		

Client Sample ID	Laboratory Sample ID	Lab File ID	Time Analyzed
LCS	B374087-BS1	D24S136009.D	09:36
LCS Dup	B374087-BSD1	D24S136010.D	09:56
CG-2	24E1437-02	D24S137015.D	16:54
B1A	24E1437-04	D24S137016.D	17:14
SB1A	24E1437-06	D24S137017.D	17:34
SB4A	24E1437-12	D24S137018.D	17:54
SB7	24E1437-17	D24S137019.D	18:14
DUP	24E1437-19	D24S137020.D	18:34
Matrix Spike	B374087-MS1	D24S137021.D	18:54
Matrix Spike Dup	B374087-MSD1	D24S137022.D	19:14

5 - FORM V
INSTRUMENT PERFORMANCE CHECK

SW-846 8270E

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Lab File ID:	D24S046001.D	Injection Date:	02/15/24
Instrument ID:	GCMSSV4	Injection Time:	10:46
Sequence:	S100626	Lab Sample ID:	S100626-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
68	Less than 2% of 69	1.64	PASS
69	Base peak, 100% relative abundance	100	PASS
70	Less than 2% of 69	0.606	PASS
197	Less than 2% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.64	PASS
365	1 - 100% of 198	3.49	PASS
441	Less than 150% of 443	78.9	PASS
442	Base peak, 100% relative abundance	100	PASS
443	15 - 24% of 442	19.7	PASS

Client ID	Sample ID	File ID	Date Analyzed	Time Analyzed
5	S100626-CAL1	D24S046011.D	02/15/2024	11:26:00
5	S100626-CAL1	D24S046003.D	02/15/2024	11:26:00
10	S100626-CAL2	D24S046012.D	02/15/2024	11:47:00
10	S100626-CAL2	D24S046004.D	02/15/2024	11:47:00
20	S100626-CAL3	D24S046013.D	02/15/2024	12:08:00
20	S100626-CAL3	D24S046005.D	02/15/2024	12:08:00
50	S100626-CAL4	D24S046014.D	02/15/2024	12:29:00
50	S100626-CAL4	D24S046006.D	02/15/2024	12:29:00
80	S100626-CAL5	D24S046007.D	02/15/2024	12:50:00
80	S100626-CAL5	D24S046015.D	02/15/2024	12:50:00
100	S100626-CAL6	D24S046016.D	02/15/2024	13:11:00
100	S100626-CAL6	D24S046008.D	02/15/2024	13:11:00
ICV 50	S100626-ICV1	D24S046022.D	02/15/2024	13:32:00
ICV 50	S100626-ICV1	D24S046009.D	02/15/2024	13:32:00
2	S100626-CAL8	D24S046010.D	02/15/2024	13:54:00
120	S100626-CAL7	D24S046017.D	02/15/2024	16:23:00
160	S100626-CALA	D24S046018.D	02/15/2024	16:44:00

CALIBRATION DATA

6 - FORM VI
INITIAL CALIBRATION DATA SHEET

SW-846 8270E

Client: NYS Division of Environmental Remediation SDG: 24E1437

Project: Tivoli Memorial Park- CO 149634

Calibration: 2400207 Instrument: GCMSSV4

Calibration Date: 2/15/2024 10:46:06AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
2,3,4,6-Tetrachlorophenol	10	0.1158732	20	0.1307543	40	0.1705988	100	0.1385716	160	0.139287	200	0.1796189
Atrazine	5	0.3327709	10	0.3670093	20	0.4616596	50	0.3646962	80	0.3700023	100	0.4732107
Benzaldehyde	5	0.9348345	10	1.031194	20	1.272947	50	1.028225	80	1.038657	100	1.300233
Biphenyl	5	1.298437	10	1.330006	20	1.424502	50	1.509466	80	1.435712	100	1.304369
Caprolactam	5	8.911563E-02	10	9.951052E-02	20	0.1252886	50	9.715503E-02	80	9.696142E-02	100	0.1200653
Acenaphthene	5	1.01177	10	1.053179	20	1.113971	50	1.212191	80	1.193628	100	1.08538
Acenaphthylene	5	1.674889	10	1.758038	20	1.838731	50	1.985977	80	1.893747	100	1.727713
Acetophenone	5	1.792235	10	1.827284	20	1.864459	50	2.001706	80	1.905873	100	1.726678
Aniline	5	0.7457452	10	0.7723748	20	0.7785729	50	0.7799313	80	0.7100588	100	0.6677548
Anthracene	5	0.983701	10	1.016179	20	1.068611	50	1.145431	80	1.109849	100	1.006966
Benzo(a)anthracene	5	1.301619	10	1.309743	20	1.400816	50	1.531843	80	1.496826	100	1.357467
Benzo(a)pyrene	5	1.035595	10	1.109643	20	1.178824	50	1.313331	80	1.299494	100	1.19656
Benzo(b)fluoranthene	5	1.16391	10	1.253819	20	1.335322	50	1.512215	80	1.492078	100	1.397017
Benzo(g,h,i)perylene	5	0.8168963	10	0.8489594	20	0.914371	50	1.022459	80	1.00457	100	0.9234752
Benzo(k)fluoranthene	5	1.067913	10	1.128449	20	1.177499	50	1.318228	80	1.288759	100	1.178893
Bis(2-chloroethoxy)methane	5	0.3557049	10	0.365584	20	0.3856324	50	0.4093714	80	0.3970918	100	0.3670064
Bis(2-chloroethyl)ether	5	0.8476794	10	0.8650157	20	0.9008413	50	0.9848719	80	0.9456654	100	0.8566608
Bis(2-chloroisopropyl)ether	5	1.153017	10	1.206838	20	1.21397	50	1.291364	80	1.226478	100	1.108054
Bis(2-Ethylhexyl)phthalate	5	0.6934282	10	0.7146067	20	0.7891004	50	0.8429153	80	0.8316458	100	0.759627
4-Bromophenylphenylether	5	0.1851516	10	0.1918258	20	0.2072744	50	0.2260404	80	0.2194598	100	0.206122
Butylbenzylphthalate	5	0.5175103	10	0.5441019	20	0.6054055	50	0.6661752	80	0.6628738	100	0.6094738
Carbazole	5	0.9145289	10	0.9619176	20	1.017399	50	1.099946	80	1.070462	100	0.9633608
4-Chloroaniline	5	0.3914424	10	0.4042181	20	0.419521	50	0.4375408	80	0.4103646	100	0.3729681
4-Chloro-3-methylphenol	5	0.282434	10	0.2940555	20	0.3220379	50	0.3463655	80	0.339748	100	0.3176683
2-Chloronaphthalene	5	1.262779	10	1.321945	20	1.472077	50	1.493523	80	1.48767	100	1.341158
2-Chlorophenol	5	1.216707	10	1.27321	20	1.342724	50	1.479162	80	1.434832	100	1.304723
4-Chlorophenylphenylether	5	0.5844537	10	0.6098597	20	0.6436426	50	0.7005808	80	0.6850231	100	0.6348249
Chrysene	5	1.199571	10	1.246105	20	1.30162	50	1.424831	80	1.399224	100	1.266495
Dibenz(a,h)anthracene	5	0.8063209	10	0.8479706	20	0.9303584	50	1.074286	80	1.061609	100	0.9762615
Dibenzofuran	5	1.484342	10	1.536772	20	1.621893	50	1.724614	80	1.657524	100	1.511027
Di-n-butylphthalate	5	1.01916	10	1.05002	20	1.185411	50	1.293349	80	1.285264	100	1.177274

6 - FORM VI
INITIAL CALIBRATION DATA SHEET

SW-846 8270E

Client: NYS Division of Environmental Remediation SDG: 24E1437

Project: Tivoli Memorial Park- CO 149634

Calibration: 2400207 Instrument: GCMSSV4

Calibration Date: 2/15/2024 10:46:06AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
3,3-Dichlorobenzidine	5	0.4431743	10	0.4653186	20	0.4758888	50	0.537869	80	0.5201663	100	0.4689998
2,4-Dichlorophenol	5	0.2941921	10	0.3092258	20	0.3299573	50	0.3551624	80	0.3509027	100	0.3217167
Diethylphthalate	5	1.211866	10	1.211973	20	1.274426	50	1.365986	80	1.335732	100	1.229691
2,4-Dimethylphenol	5	0.3083216	10	0.3207682	20	0.3339757	50	0.3640225	80	0.3528435	100	0.3187272
Dimethylphthalate	5	1.23007	10	1.281814	20	1.344938	50	1.40995	80	1.375038	100	1.252381
4,6-Dinitro-2-methylphenol			10	6.694627E-02	20	8.493862E-02	50	0.1134127	80	0.1210361	100	0.1140701
2,4-Dinitrophenol			10	7.955444E-02	20	0.1052186	50	0.144362	80	0.1593386	100	0.1550546
2,4-Dinitrotoluene			10	0.2861787	20	0.3491996	50	0.4101456	80	0.4176004	100	0.3879729
2,6-Dinitrotoluene	5	0.2120385	10	0.2301616	20	0.2607691	50	0.3042606	80	0.3042491	100	0.2831369
Di-n-octylphthalate	5	1.130439	10	1.172361	20	1.305203	50	1.447267	80	1.465564	100	1.353169
Fluoranthene	5	1.050915	10	1.126031	20	1.23249	50	1.393359	80	1.381416	100	1.236858
Fluorene	5	1.228499	10	1.277909	20	1.338675	50	1.431059	80	1.396047	100	1.265272
Hexachlorobenzene	5	0.2171202	10	0.2190571	20	0.2358791	50	0.2616716	80	0.2640443	100	0.2397465
Hexachlorobutadiene	5	0.1980083	10	0.1938651	20	0.2093216	50	0.2273204	80	0.2186996	100	0.2026985
Hexachlorocyclopentadiene	5	0.3247905	10	0.3421172	20	0.3843783	50	0.4376154	80	0.4312655	100	0.3899854
Hexachloroethane	5	0.551838	10	0.5672415	20	0.5908801	50	0.6295309	80	0.5983163	100	0.5457777
Indeno(1,2,3-cd)pyrene	5	0.8425533	10	0.8742537	20	0.9513123	50	1.090567	80	1.08014	100	1.000841
Isophorone	5	0.6279102	10	0.6499653	20	0.6860012	50	0.726896	80	0.7084586	100	0.6515412
1-Methylnaphthalene	5	0.5816914	10	0.6019547	20	0.6291149	50	0.6809081	80	0.6627248	100	0.6104769
2-Methylnaphthalene	5	0.6257073	10	0.6427546	20	0.6808843	50	0.7466288	80	0.7192842	100	0.6676491
2-Methylphenol	5	1.091444	10	1.164494	20	1.173666	50	1.270521	80	1.242503	100	1.125048
3/4-Methylphenol	10	1.252474	20	1.32431	40	1.372143	100	1.481995	160	1.40561	200	1.268005
Naphthalene	5	0.9254838	10	0.9568086	20	1.010297	50	1.088115	80	1.046531	100	0.9550694
2-Nitroaniline	5	0.2829678	10	0.3093382	20	0.339618	50	0.3698207	80	0.3633976	100	0.3320367
3-Nitroaniline	5	0.2365036	10	0.2610356	20	0.2983228	50	0.3175546	80	0.3041565	100	0.2795418
4-Nitroaniline	5	0.2515887	10	0.2718989	20	0.3027069	50	0.3452337	80	0.3469149	100	0.31624
Nitrobenzene	5	0.3660319	10	0.3834797	20	0.420873	50	0.4409715	80	0.4269665	100	0.3897609
2-Nitrophenol	5	0.1473276	10	0.1566479	20	0.1783013	50	0.2074846	80	0.2037718	100	0.1916643
4-Nitrophenol	5	0.1701917	10	0.1766162	20	0.2047274	50	0.2260264	80	0.2284546	100	0.2074456
N-Nitrosodiphenylamine/Diphen	4.28	0.5273639	8.56	0.5513181	17.1	0.576369	42.8	0.6065927	68.5	0.5848363	85.6	0.5252089
N-Nitrosodi-n-propylamine	5	0.9492007	10	0.983457	20	0.9981231	50	1.06496	80	1.013501	100	0.9177329

6 - FORM VI
INITIAL CALIBRATION DATA SHEET

SW-846 8270E

Client: NYS Division of Environmental Remediation SDG: 24E1437

Project: Tivoli Memorial Park- CO 149634

Calibration: 2400207 Instrument: GCMSSV4

Calibration Date: 2/15/2024 10:46:06AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
Pentachlorophenol	5	0.1353738	10	0.1418215	20	0.1649321	50	0.195303	80	0.1982966	100	0.1834306
Phenanthrene	5	0.9734977	10	1.003425	20	1.064845	50	1.131781	80	1.096226	100	0.9942152
Phenol	5	1.555954	10	1.6538	20	1.753821	50	1.948288	80	1.87431	100	1.700079
Pyrene	5	1.346365	10	1.354155	20	1.424836	50	1.504149	80	1.473147	100	1.351678
Pyridine	5	1.039832	10	1.235579	20	1.355125	50	1.568285	80	1.568734	100	1.486103
1,2,4,5-Tetrachlorobenzene	5	0.5894096	10	0.6020979	20	0.6481813	50	0.7115236	80	0.6935492	100	0.6296929
2,4,5-Trichlorophenol	5	0.3812632	10	0.4134533	20	0.4520595	50	0.4790998	80	0.4638357	100	0.4258715
2,4,6-Trichlorophenol	5	0.3690548	10	0.3903883	20	0.421086	50	0.4653387	80	0.4525902	100	0.4130344
2-Fluorophenol	10	0.8001187	20	0.8777655	40	0.95244	100	1.087474	160	1.060724	200	0.9628207
Phenol-d6	10	1.355466	20	1.436217	40	1.527768	100	1.71205	160	1.652439	200	1.512823
Nitrobenzene-d5	5	0.3316274	10	0.3429054	20	0.3765582	50	0.3987936	80	0.3933922	100	0.3595017
2-Fluorobiphenyl	5	1.13997	10	1.183508	20	1.259329	50	1.348795	80	1.279668	100	1.170511
2,4,6-Tribromophenol	10	0.1625282	20	0.17331	40	0.1883418	100	0.2145481	160	0.2224449	200	0.2116356
p-Terphenyl-d14	5	0.7349311	10	0.736325	20	0.7832676	50	0.852593	80	0.8538257	100	0.7850221

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

SW-846 8270E

Client: NYS Division of Environmental Remediation SDG: 24E1437

Project: Tivoli Memorial Park- CO 149634

Calibration: 2400207 Instrument: GCMSSV4

Calibration Date: 2/15/2024 10:46:06AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
		RF		RF		RF		RF		RF		RF
2,3,4,6-Tetrachlorophenol												
Atrazine												
Benzaldehyde												
Biphenyl	120	1.448947	2	1.266238								
Caprolactam												
Acenaphthene	120	1.221223	2	1.021344								
Acenaphthylene	120	1.915516	2	1.657648								
Acetophenone	120	1.841945										
Aniline	120	0.6901851	2	0.708536								
Anthracene	120	1.118638	2	0.967647								
Benzo(a)anthracene	120	1.514511	2	1.300806								
Benzo(a)pyrene	120	1.342106	2	1.035534								
Benzo(b)fluoranthene	120	1.593764	2	1.185129								
Benzo(g,h,i)perylene	120	1.008447	2	0.8090707								
Benzo(k)fluoranthene	120	1.338356	2	1.071615								
Bis(2-chloroethoxy)methane	120	0.4046739										
Bis(2-chloroethyl)ether	120	0.9277458										
Bis(2-chloroisopropyl)ether	120	1.176945										
Bis(2-Ethylhexyl)phthalate	120	0.854218	2	0.6554969								
4-Bromophenylphenylether	120	0.2285452										
Butylbenzylphthalate	120	0.6842683										
Carbazole	120	1.080873	2	0.9053307								
4-Chloroaniline	120	0.4169366										
4-Chloro-3-methylphenol	120	0.3525586										
2-Chloronaphthalene	120	1.445966										
2-Chlorophenol	120	1.405095										
4-Chlorophenylphenylether	120	0.7048301										
Chrysene	120	1.410828	2	1.201972								
Dibenz(a,h)anthracene	120	1.073664	2	0.7994841								
Dibenzofuran	120	1.658428	2	1.52072								
Di-n-butylphthalate	120	1.308524										

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

SW-846 8270E

Client: NYS Division of Environmental Remediation SDG: 24E1437

Project: Tivoli Memorial Park- CO 149634

Calibration: 2400207 Instrument: GCMSSV4

Calibration Date: 2/15/2024 10:46:06AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
		RF		RF		RF		RF		RF		RF
3,3-Dichlorobenzidine	120	0.5268866										
2,4-Dichlorophenol	120	0.3584323										
Diethylphthalate	120	1.372408										
2,4-Dimethylphenol	120	0.3570828										
Dimethylphthalate	120	1.393649	2	1.214028								
4,6-Dinitro-2-methylphenol	120	0.1303069										
2,4-Dinitrophenol												
2,4-Dinitrotoluene	120	0.44249										
2,6-Dinitrotoluene	120	0.3165124										
Di-n-octylphthalate	120	1.545328										
Fluoranthene	120	1.389945	2	1.040531								
Fluorene	120	1.411325	2	1.241085								
Hexachlorobenzene	120	0.2710311	2	0.2095733								
Hexachlorobutadiene	120	0.2268605	2	0.2004654								
Hexachlorocyclopentadiene	120	0.4413489										
Hexachloroethane	120	0.6049217	2	0.5663516								
Indeno(1,2,3-cd)pyrene	120	1.097998	2	0.8526029								
Isophorone	120	0.7216423										
1-Methylnaphthalene	120	0.6770505	2	0.5786698								
2-Methylnaphthalene	120	0.7468745	2	0.6316075								
2-Methylphenol	120	1.158375										
3/4-Methylphenol	240	1.365442	4	1.177478								
Naphthalene	120	1.055558	2	0.9282529								
2-Nitroaniline	120	0.3713916										
3-Nitroaniline	120	0.3071887										
4-Nitroaniline	120	0.3529194										
Nitrobenzene	120	0.4303957										
2-Nitrophenol	120	0.2146516										
4-Nitrophenol	120	0.2346922										
N-Nitrosodiphenylamine/Diphen	103	0.5780063										
N-Nitrosodi-n-propylamine	120	0.975532										

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

SW-846 8270E

Client: NYS Division of Environmental Remediation SDG: 24E1437

Project: Tivoli Memorial Park- CO 149634

Calibration: 2400207 Instrument: GCMSSV4

Calibration Date: 2/15/2024 10:46:06AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
		RF		RF		RF		RF		RF		RF
Pentachlorophenol	120	0.2078682										
Phenanthrene	120	1.109427	2	0.9780331								
Phenol	120	1.827317	2	1.567257								
Pyrene	120	1.507649	2	1.315933								
Pyridine	120	1.656314										
1,2,4,5-Tetrachlorobenzene	120	0.6953292										
2,4,5-Trichlorophenol	120	0.4685061										
2,4,6-Trichlorophenol	120	0.4653768										
2-Fluorophenol	240	1.053127			320	1.001337						
Phenol-d6	240	1.629141			320	1.538861						
Nitrobenzene-d5	120	0.3999547			160	0.3616738						
2-Fluorobiphenyl	120	1.270145			160	1.165505						
2,4,6-Tribromophenol	240	0.2457987			320	0.2493918						
p-Terphenyl-d14	120	0.8853909			160	0.8258198						

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

SW-846 8270E

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Calibration:	2400207	Instrument:	GCMSSV4
		Calibration Date:	2/15/2024 10:46:06AM

COMPOUND	Mean RF	RF RSD	Linear r^2	Quad COD	LIMIT	Q
2,3,4,6-Tetrachlorophenol	0.145784	16.7			20	
Atrazine	0.3948915	14.7			20	
Benzaldehyde	1.101015	13.5			20	
Biphenyl	1.37721	6.4			20	
Caprolactam	0.1046827	13.8			20	
Acenaphthene	1.114086	7.7			20	
Acenaphthylene	1.806532	6.6			20	
Acetophenone	1.851454	4.7			20	
Aniline	0.7316449	5.9			20	
Anthracene	1.052128	6.4			20	
Benzo(a)anthracene	1.401704	7.1			20	
Benzo(a)pyrene	1.188886	10.3			20	
Benzo(b)fluoranthene	1.366657	11.6			20	
Benzo(g,h,i)perylene	0.9185311	9.5			20	
Benzo(k)fluoranthene	1.196214	9.0			20	
Bis(2-chloroethoxy)methane	0.3835807	5.5			20	
Bis(2-chloroethyl)ether	0.9040686	5.7			20	
Bis(2-chloroisopropyl)ether	1.196667	4.9			20	
Bis(2-Ethylhexyl)phthalate	0.7676298	9.7			20	
4-Bromophenylphenylether	0.2092027	7.9			20	
Butylbenzylphthalate	0.6128298	10.4			20	
Carbazole	1.001727	7.6			20	
4-Chloroaniline	0.4075702	5.1			20	
4-Chloro-3-methylphenol	0.322124	8.2			20	
2-Chloronaphthalene	1.403588	6.6			20	
2-Chlorophenol	1.350922	6.9			20	
4-Chlorophenylphenylether	0.6518878	7.1			20	
Chrysene	1.306331	7.2			20	
Dibenz(a,h)anthracene	0.9462443	12.5			20	
Dibenzofuran	1.589415	5.5			20	
Di-n-butylphthalate	1.188429	9.9			20	

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

SW-846 8270E

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Calibration:	2400207	Instrument:	GCMSSV4
		Calibration Date:	2/15/2024 10:46:06AM

COMPOUND	Mean RF	RF RSD	Linear r^2	Quad COD	LIMIT	Q
3,3-Dichlorobenzidine	0.4911862	7.4			20	
2,4-Dichlorophenol	0.3313699	7.4			20	
Diethylphthalate	1.286012	5.6			20	
2,4-Dimethylphenol	0.3365345	6.4			20	
Dimethylphthalate	1.312734	5.9			20	
4,6-Dinitro-2-methylphenol	0.1051184	22.9	0.992		0.99	
2,4-Dinitrophenol	0.1287056	27.0	0.998		0.99	
2,4-Dinitrotoluene	0.3822645	14.8			20	
2,6-Dinitrotoluene	0.2730183	14.7			20	
Di-n-octylphthalate	1.345619	11.5			20	
Fluoranthene	1.231443	12.0			20	
Fluorene	1.323734	6.1			20	
Hexachlorobenzene	0.2397654	9.9			20	
Hexachlorobutadiene	0.2096549	6.3			20	
Hexachlorocyclopentadiene	0.3930716	11.9			20	
Hexachloroethane	0.5818572	5.0			20	
Indeno(1,2,3-cd)pyrene	0.9737835	11.2			20	
Isophorone	0.6817735	5.7			20	
1-Methylnaphthalene	0.6278239	6.6			20	
2-Methylnaphthalene	0.6826738	7.3			20	
2-Methylphenol	1.17515	5.3			20	
3/4-Methylphenol	1.330932	7.2			20	
Naphthalene	0.9957644	6.3			20	
2-Nitroaniline	0.3383672	9.8			20	
3-Nitroaniline	0.2863291	10.1			20	
4-Nitroaniline	0.3125004	12.6			20	
Nitrobenzene	0.4083542	6.9			20	
2-Nitrophenol	0.1856927	14.0			20	
4-Nitrophenol	0.2068792	12.3			20	
N-Nitrosodiphenylamine/Diphenylamine	0.5642422	5.4			20	
N-Nitrosodi-n-propylamine	0.9860724	4.8			20	

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

SW-846 8270E

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Calibration:	2400207	Instrument:	GCMSSV4
		Calibration Date:	2/15/2024 10:46:06AM

COMPOUND	Mean RF	RF RSD	Linear r^2	Quad COD	LIMIT	Q
Pentachlorophenol	0.1752894	16.3			20	
Phenanthrene	1.043931	6.1			20	
Phenol	1.735103	8.2			20	
Pyrene	1.409739	5.5			20	
Pyridine	1.41571	15.4			20	
1,2,4,5-Tetrachlorobenzene	0.6528262	7.4			20	
2,4,5-Trichlorophenol	0.4405842	8.0			20	
2,4,6-Trichlorophenol	0.425267	8.9			20	
2-Fluorophenol	0.9744759	10.1			20	
Phenol-d6	1.545596	7.6			20	
Nitrobenzene-d5	0.3705509	7.0			20	
2-Fluorobiphenyl	1.227179	5.9			20	
2,4,6-Tribromophenol	0.2084999	15.2			20	
p-Terphenyl-d14	0.8071469	6.9			20	

INITIAL CALIBRATION STANDARDS

SW-846 8270E

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Sequence:	S100626	Instrument:	GCMSSV4
Calibration:	2400207		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
24A0478	DFTPP Tuning standard - 50ng	S100626-TUN1	D24S046001.D	02/15/24 10:46
24A0084	SEMI BNA curve#1- 5 ugmL	S100626-CAL1	D24S046003.D	02/15/24 11:26
24A0085	SEMI BNA curve#2- 10 ugmL	S100626-CAL2	D24S046004.D	02/15/24 11:47
24A0086	SEMI BNA curve#3- 20 ugmL	S100626-CAL3	D24S046005.D	02/15/24 12:08
24A0087	SEMI BNA curve#4- 50 ugmL	S100626-CAL4	D24S046006.D	02/15/24 12:29
24A0088	SEMI BNA curve#5- 80 ugmL	S100626-CAL5	D24S046007.D	02/15/24 12:50
24A0089	SEMI BNA curve#6- 100 ugmL	S100626-CAL6	D24S046008.D	02/15/24 13:11
24A0091	SEMI BNA curve#8- 2. ugmL	S100626-CAL8	D24S046010.D	02/15/24 13:54
24A0084	SEMI BNA curve#1- 5 ugmL	S100626-CAL1	D24S046011.D	02/15/24 14:15
24A0085	SEMI BNA curve#2- 10 ugmL	S100626-CAL2	D24S046012.D	02/15/24 14:36
24A0086	SEMI BNA curve#3- 20 ugmL	S100626-CAL3	D24S046013.D	02/15/24 14:58
24A0087	SEMI BNA curve#4- 50 ugmL	S100626-CAL4	D24S046014.D	02/15/24 15:19
24A0088	SEMI BNA curve#5- 80 ugmL	S100626-CAL5	D24S046015.D	02/15/24 15:40
24A0089	SEMI BNA curve#6- 100 ugmL	S100626-CAL6	D24S046016.D	02/15/24 16:01
24A0090	SEMI BNA curve#7- 120 ugmL	S100626-CAL7	D24S046017.D	02/15/24 16:23
24A0066	SEMI BNA Calibration Std-160ug/ml	S100626-CALA	D24S046018.D	02/15/24 16:44

Injection Log

GL

C:\msdchem\1\DATA\D021524\

Date	Filename	Lab ID	Sample Info
15 Feb 2024 10:46 am	D24S046001.D	DFTPP 50ng 2303080F2 1953	
15 Feb 2024 11:05 am	D24S046002.D	blank	
15 Feb 2024 11:26 am	D24S046003.D	NCExtras 5 ppm 2307665	
15 Feb 2024 11:47 am	D24S046004.D	NCExtras 10 ppm 2307678	
15 Feb 2024 12:08 pm	D24S046005.D	NCExtras 20 ppm 2307679	
15 Feb 2024 12:29 pm	D24S046006.D	NCExtras 50 ppm 2307680	
15 Feb 2024 12:50 pm	D24S046007.D	NCExtras 80 ppm 2307681	NCD02154.M
15 Feb 2024 1:11 pm	D24S046008.D	NCExtras 100 ppm 2307682	
15 Feb 2024 1:32 pm	D24S046009.D	NCExtrasICV 50 ppm 24A0092	
15 Feb 2024 1:54 pm	D24S046010.D	8270std 2 ppm 24a0091	
15 Feb 2024 2:15 pm	D24S046011.D	8270std 5 ppm 24A0084	
15 Feb 2024 2:36 pm	D24S046012.D	8270std 10 ppm 24A0085	
15 Feb 2024 2:58 pm	D24S046013.D	8270std 20 ppm 24A0086	
15 Feb 2024 3:19 pm	D24S046014.D	8270std 50 ppm 24A0087	
15 Feb 2024 3:40 pm	D24S046015.D	8270std 80 ppm 24A0088	BND02154.M
15 Feb 2024 4:01 pm	D24S046016.D	8270std 100 ppm 24A0089	
15 Feb 2024 4:23 pm	D24S046017.D	8270std 120ppm 24A0090	
15 Feb 2024 4:44 pm	D24S046018.D	8270std 160 ppm 24A0066	
15 Feb 2024 5:04 pm	D24S046019.D	8270std test 2ppm	do not need
15 Feb 2024 5:25 pm	D24S046020.D	8270std test 5ppm	
15 Feb 2024 5:47 pm	D24S046021.D	8270std test 10ppm	
15 Feb 2024 6:08 pm	D24S046022.D	8270ICV 50 ppm 24A0092	
15 Feb 2024 6:29 pm	D24S046023.D	TEST	
15 Feb 2024 6:50 pm	D24S046024.D	DFTPP 50 NG 2303080	
15 Feb 2024 7:11 pm	D24S046025.D	8270std 50 ppm 24B0185	
15 Feb 2024 7:32 pm	D24S046026.D	B362877-BLK1@/8270W 1/09	
15 Feb 2024 7:53 pm	D24S046027.D	B362877-MRL1@/ LOQ Q1	
15 Feb 2024 8:15 pm	D24S046028.D	B362877-MRL2	
15 Feb 2024 8:36 pm	D24S046029.D	B362877-MRL3	
15 Feb 2024 8:57 pm	D24S046030.D	B362877-MRL4	
15 Feb 2024 9:18 pm	D24S046031.D	B362877-MRL5	
15 Feb 2024 9:39 pm	D24S046032.D	B362877-MRL6	
15 Feb 2024 10:01 pm	D24S046033.D	B362882-BLK1@/8270S 01/09	
15 Feb 2024 10:21 pm	D24S046034.D	B362882-MRL1@/LOQ Q1	
15 Feb 2024 10:43 pm	D24S046035.D	B362882-MRL2	
15 Feb 2024 11:04 pm	D24S046036.D	B362882-MRL3	
15 Feb 2024 11:25 pm	D24S046037.D	B362882-MRL4	
15 Feb 2024 11:47 pm	D24S046038.D	B362882-MRL5	
16 Feb 2024 12:08 am	D24S046039.D	B362882-MRL6	

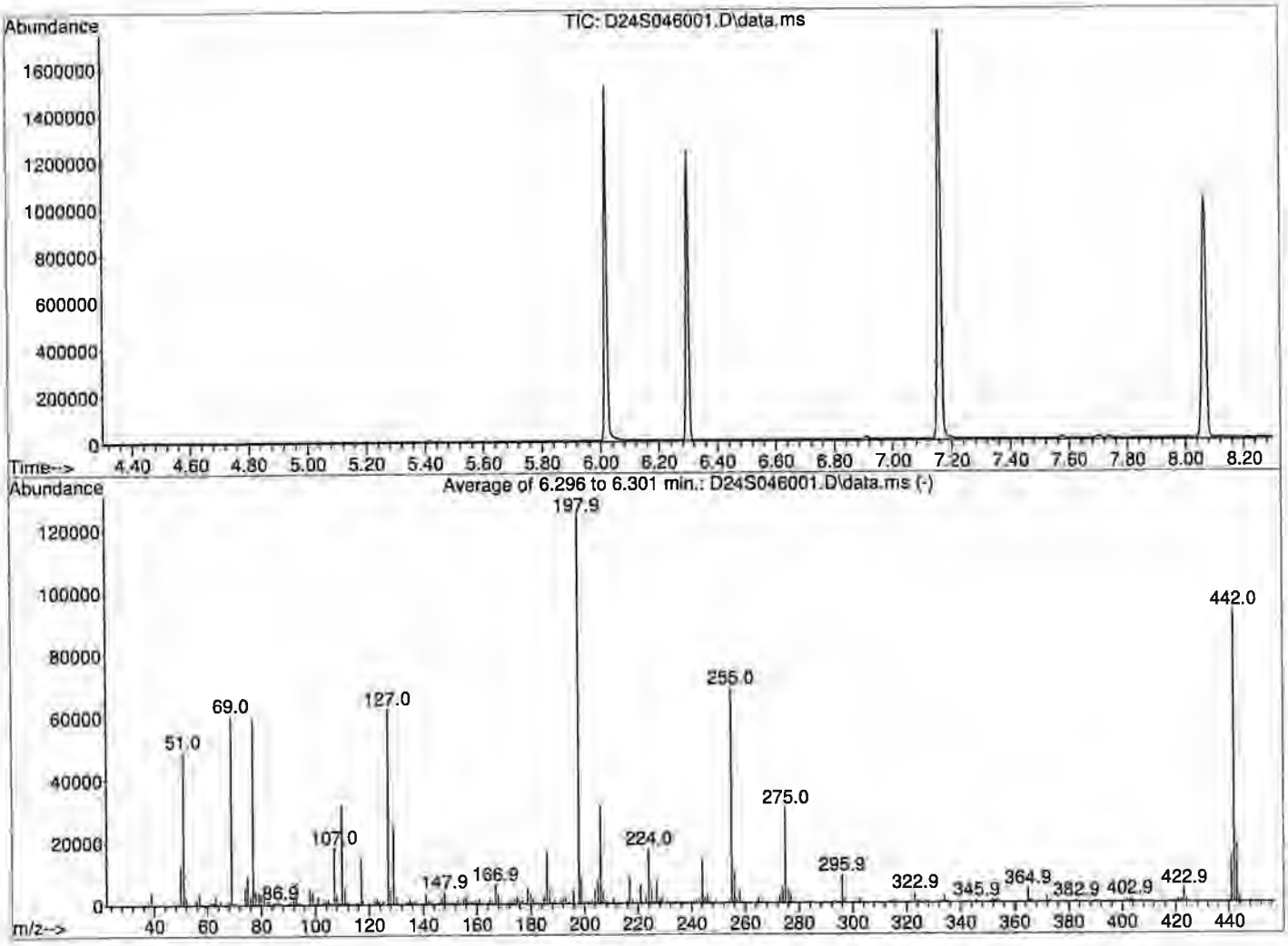
S100592 #2400199 NCD02154.M

S100626 #2400207 BND02154.M

Data Path : C:\msdchem\1\DATA\D021524\
Data File : D24S046001.D
Acq On : 15 Feb 2024 10:46 am
Operator : BGL
Sample : DFTPP 50ng 2303080F2 1953 Inst : GCMSSV4
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\METHODS\DFTPPE.M
Title : dftpp svms4 merge method C Criteria
Last Update : Sat Mar 14 15:39:58 2009

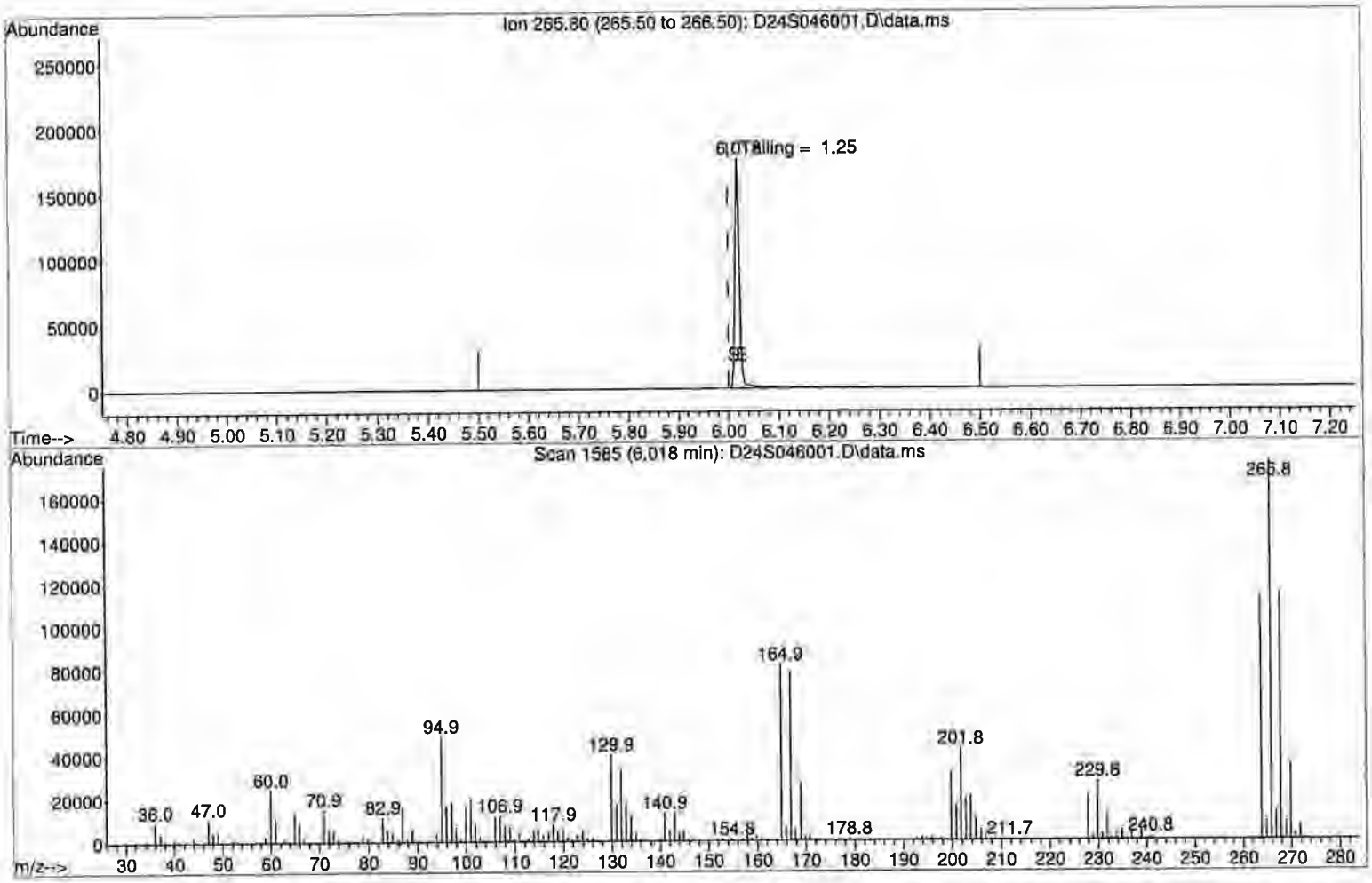


AutoFind: Scans 1693, 1694, 1695; Background Corrected with Scan 1686

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.6	989	PASS
69	69	100	100	100.0	60408	PASS
70	69	0.00	2	0.6	366	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	124635	PASS
199	198	5	9	6.6	8273	PASS
365	198	1	100	3.5	4351	PASS
441	442	0.01	24	15.6	14474	PASS
442	198	0.01	100	74.7	93043	PASS
443	442	15	24	19.7	18346	PASS

Data Path : C:\msdchem\1\DATA\D021524\
Data File : D24S046001.D
Acq On : 15 Feb 2024 10:46 am
Operator : BGL
Sample : DFTPP 50ng 2303080F2 1953 Inst : GCMSSV4
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 15 14:05:54 2024
Quant Method : C:\msdchem\1\METHODS\DFTPPE.M
DataAcq Meth:BND02154.M
Quant Title : dftpp svms4 merge method C Criteria
QLast Update : Mon Jul 21 14:15:56 2008
Response via : Initial Calibration



TIC: D24S046001.D\data.ms

(1) Pentachlorophenol

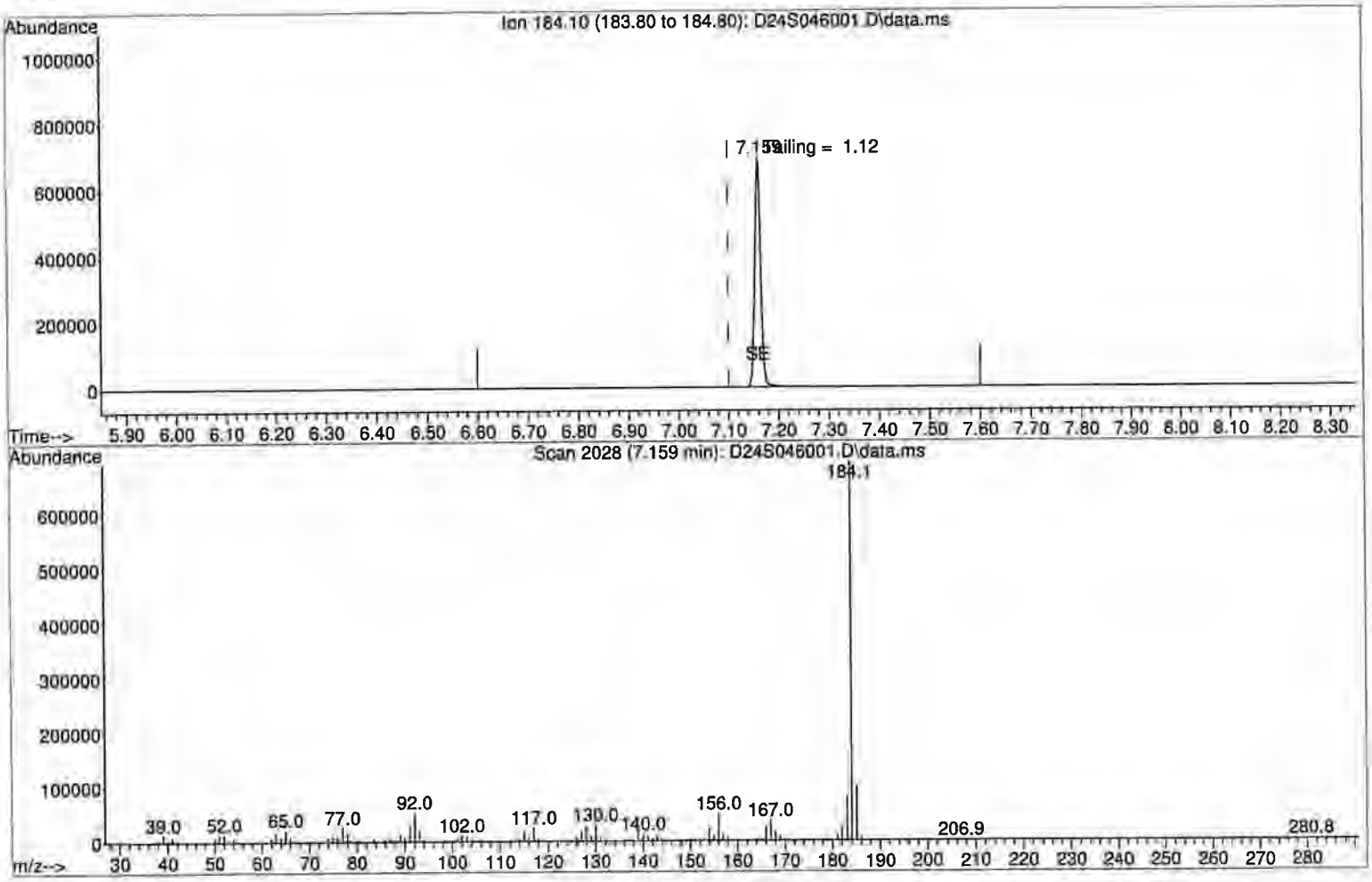
6.018min (+0.018) 0.00

response 108052

Ion	Exp%	Act%
265.80	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : C:\msdchem\1\DATA\D021524\
Data File : D24S046001.D
Acq On : 15 Feb 2024 10:46 am
Operator : BGL
Sample : DFTPP 50ng 2303080F2 1953 Inst : GCMSSV4
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 15 14:05:54 2024
Quant Method : C:\msdchem\1\METHODS\DFTPPE.M
DataAcq Meth:BND02154.M
Quant Title : dftpp svms4 merge method C Criteria
QLast Update : Mon Jul 21 14:15:56 2008
Response via : Initial Calibration



TIC: D24S046001.D\data.ms

(3) benzidine

7.159min (+0.059) 0.00

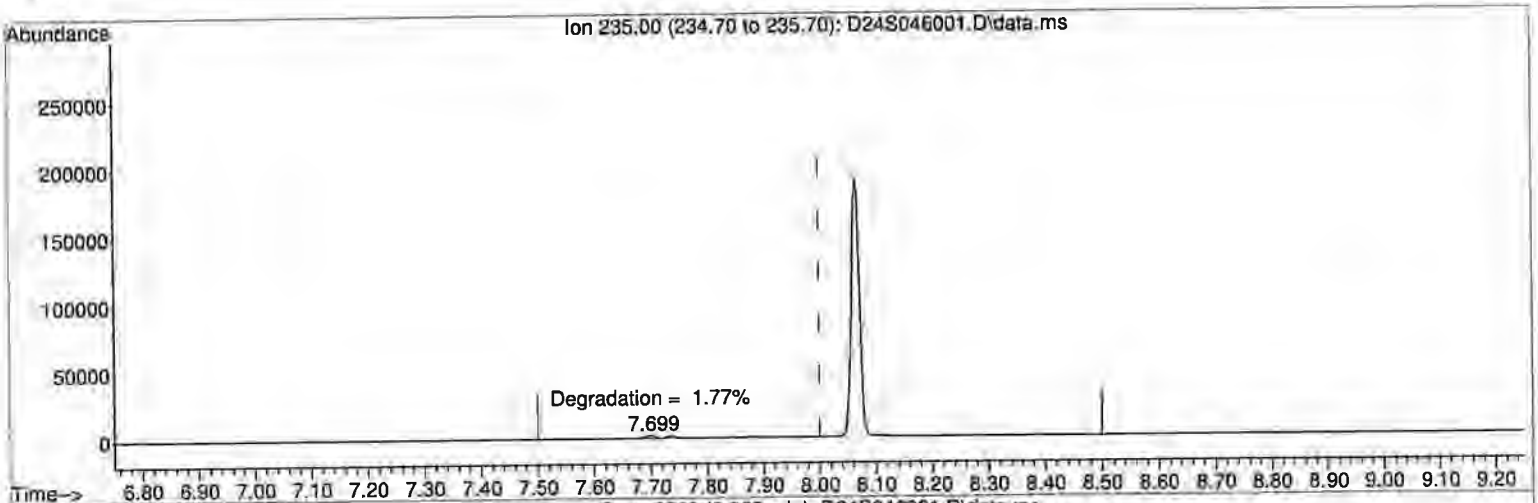
response 577549

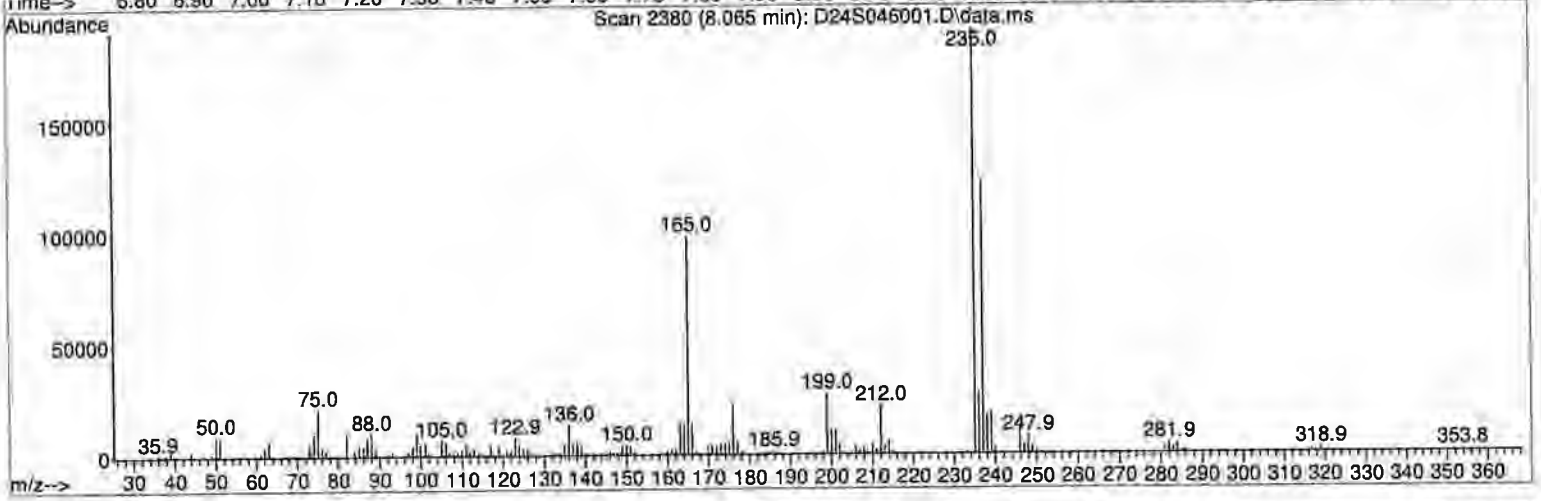
Ion	Exp%	Act%
184.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\D021524\
Data File : D24S046001.D
Acq On : 15 Feb 2024 10:46 am
Operator : BGL
Sample : DFTPP 50ng 2303080F2 1953 Inst : GCMSSV4
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 15 14:05:54 2024
Quant Method : C:\msdchem\1\METHODS\DFTPPE.M
DataAcq Meth:BND02154.M
Quant Title : dftpp svms4 merge method C Criteria
QLast Update : Mon Jul 21 14:15:56 2008
Response via : Initial Calibration





TIC: D24S046001.D\data.ms

(4) DDT

8.065min (+0.065) 0.00

response 188886

Ion	Exp%	Act%
235.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D021524\
Data File : D24S046010.D
Acq On : 15 Feb 2024 1:54 pm
Operator : BGL
Sample : 8270std 2 ppm 24a0091 Inst : GCMSSV4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 16 07:20:52 2024
Quant Method : C:\msdchem\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Fri Feb 16 07:17:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-D4	3.404	152	142491	40.00	ug/ml	# 0.00
19) NAPHTHALENE-d8	4.143	136	515700	40.00	ug/ml	0.00
35) ACENAPHTHENE-D10	5.217	164	304540	40.00	ug/ml	0.00
58) PHENANTHRENE-D10	6.149	188	550738	40.00	ug/ml	0.00
71) CHRYSENE-D12	8.724	240	453488	40.00	ug/ml	0.00
80) PERYLENE-D12	11.345	264	458971	40.00	ug/ml	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	2.717	112	11338	3.27	ug/ml	0.00
Spiked Amount 200.000	Range 30 - 130		Recovery = 1.64%#			
3) Phenol-d6	3.168	99	19017	3.45	ug/ml	0.00
Spiked Amount 200.000	Range 30 - 130		Recovery = 1.73%#			
20) Nitrobenzene-d5	3.711	82	9910	2.07	ug/ml	0.00
Spiked Amount 100.000	Range 30 - 130		Recovery = 2.07%#			
36) 2-Fluorobiphenyl	4.790	172	16953	1.81	ug/ml	0.00
Spiked Amount 100.000	Range 30 - 130		Recovery = 1.81%#			
37) 2,4,6-Tribromophenol	5.706	330	4965	3.13	ug/ml	0.00
Spiked Amount 200.000	Range 30 - 130		Recovery = 1.57%#			
72) Terphenyl-d14	7.398	244	16266	1.78	ug/ml	0.00
Spiked Amount 100.000	Range 30 - 130		Recovery = 1.78%#			
Target Compounds						Qvalue
4) N-Nitrosodimethylamine	2.102	42	5217	1.77	ug/ml#	79
5) Pyridine	2.133	79	8309	1.65	ug/ml#	83
6) Aniline	3.219	66	5048	1.94	ug/ml	98
7) Phenol	3.175	94	11166	1.81	ug/ml	98
8) Bis(2-chloroethyl)ether	3.242	63	6056	1.88	ug/ml	94
9) 2-Chlorophenol	3.289	128	8646	1.80	ug/ml	91
10) 1,3-Dichlorobenzene	3.376	146	10180	1.84	ug/ml	96
11) 1,4-Dichlorobenzene	3.415	146	10247	1.85	ug/ml	86
12) 1,2-Dichlorobenzene	3.500	146	9808	1.90	ug/ml	95
13) 2- METHYLPHENOL	3.513	108	7773	1.86	ug/ml	94
14) Bis(2-Chloroisopropyl)...	3.536	45	8146	1.91	ug/ml	86
15) Acetophenone	3.621	105	12524	1.90	ug/ml	99
16) 3/4- METHYLPHENOL	3.595	107	16778	3.54	ug/ml	96
17) N-Nitroso-Di-N-Propyla...	3.610	70	6752	1.92	ug/ml	97
18) Hexachloroethane	3.695	117	4035	1.95	ug/ml	99
21) NITROBENZENE	3.724	77	9448	1.79	ug/ml	93
22) Isophorone	3.855	82	16251	1.85	ug/ml	97
23) 2-Nitrophenol	3.909	139	3582	1.50	ug/ml	94
24) 2,4-Dimethylphenol	3.912	122	10811	2.36	ug/ml#	71
25) Bis(2-Chloroethoxy)met...	3.974	93	9192	1.86	ug/ml	98
26) Benzoic Acid	3.912	122	10736	3.94	ug/ml#	36
27) 2,4-Dichlorophenol	4.043	162	7644	1.79	ug/ml	95
28) 1,2,4-Trichlorobenzene	4.102	180	8560	1.82	ug/ml	97
29) Naphthalene	4.156	128	23935	1.86	ug/ml	99
30) 4-Chloroaniline	4.174	127	9538	1.82	ug/ml	98
31) Hexachlorobutadiene	4.218	225	5169	1.91	ug/ml	96
32) 4-Chloro-3-Methylphenol	4.450	107	6793	1.64	ug/ml	96
33) 2-MethylNaphthalene	4.571	142	16286	1.85	ug/ml	99
34) 1-Methylnaphthalene	4.633	142	14921	1.84	ug/ml	96
38) Hexachlorocyclopentadiene	4.664	237	4499	1.50	ug/ml	99
39) 1,2,4,5-Tetrachloroben...	4.671	216	8759	1.76	ug/ml	99
40) 2,4,6-Trichlorophenol	4.736	196	5525	1.71	ug/ml	99
41) 2,4,5-Trichlorophenol	4.756	196	5579	1.66	ug/ml	99
42) 2-ChloroNaphthalene	4.872	162	19466	1.82	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D021524\
Data File : D24S046010.D
Acq On : 15 Feb 2024 1:54 pm
Operator : BGL
Sample : 8270std 2 ppm 24a0091 Inst : GCMSSV4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 16 07:20:52 2024
Quant Method : C:\msdchem\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Fri Feb 16 07:17:14 2024
Response via : Initial Calibration

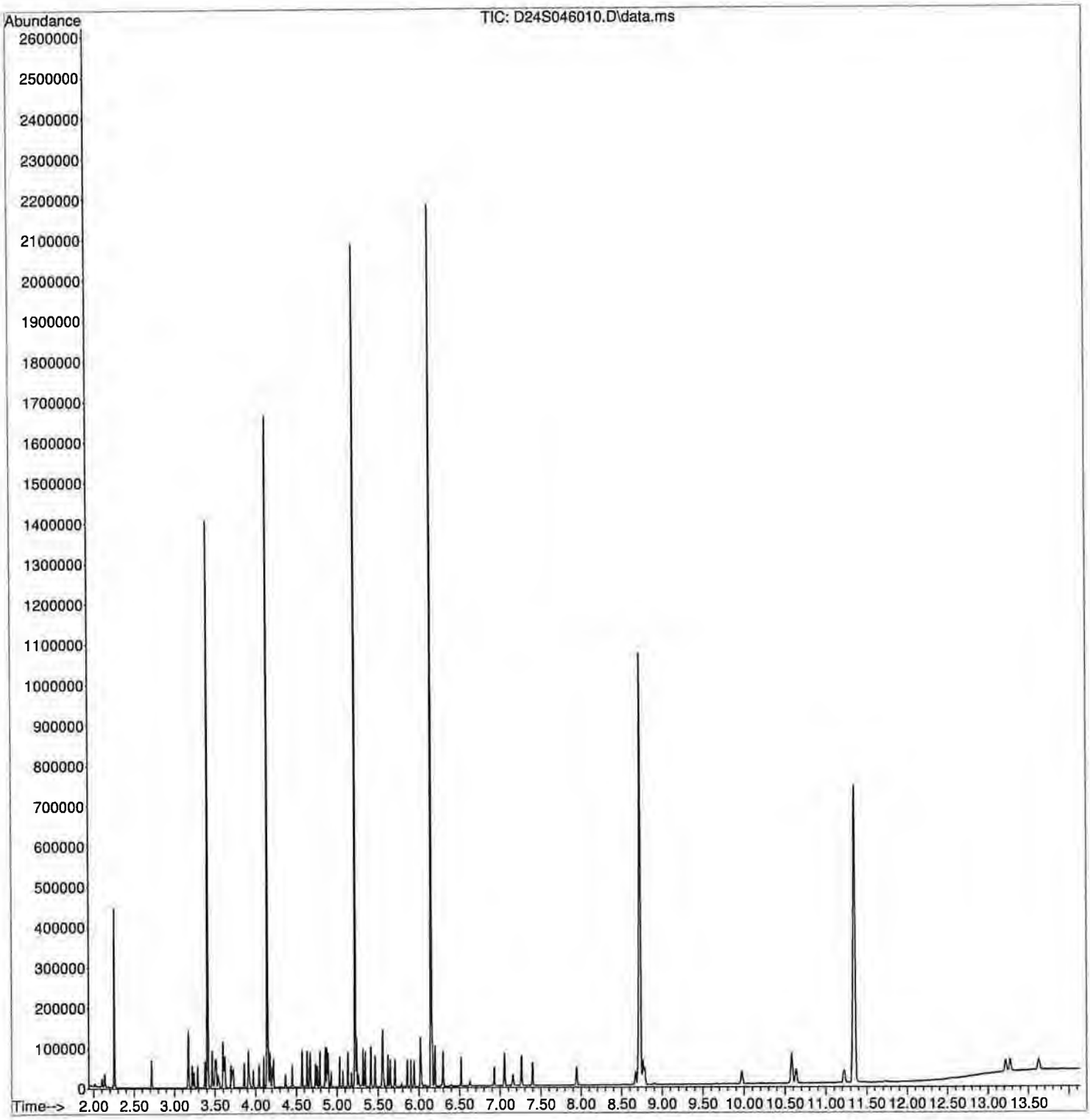
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) 2-Nitroaniline	4.926	65	4046	1.57 ug/ml	95
44) 1,1-Biphenyl	4.854	154	19281	1.84 ug/ml	99
45) DIMETHYL PHTHALATE	5.029	163	18486	1.85 ug/ml#	80
46) 2,6-DinitroToluene	5.070	165	2807	1.35 ug/ml	90
47) Acenaphthylene	5.132	152	25241	1.84 ug/ml	99
48) 3-Nitroaniline	5.176	138	3178	1.46 ug/ml	99
49) Acenaphthene	5.238	154	15552	1.83 ug/ml	97
50) 2,4-Dinitrophenol	5.240	184	944	0.90 ug/ml#	1
51) 4-Nitrophenol	5.261	109	2140	1.36 ug/ml#	90
52) Dibenzofuran	5.343	168	23156	1.91 ug/ml	99
53) 2,4-Dinitrotoluene	5.320	165	3350	1.21 ug/ml	100
54) DIETHYL PHTHALATE	5.464	149	17644	1.80 ug/ml	99
55) 4-Chlorophenyl phenyl ...	5.549	204	8983	1.81 ug/ml	95
56) Flourene	5.560	166	18898	1.88 ug/ml	95
57) 4-Nitroaniline	5.554	138	3484	1.46 ug/ml	91
59) 4,6-Dinitro-2-Methylph...	5.572	198	1273	0.88 ug/ml	85
60) N-Nitrosodiphenylamine	5.619	169	12327	1.58 ug/ml	99
61) 1,2-Diphenylhydrazine	5.650	77	18803	1.91 ug/ml	97
62) 4-Bromophenyl phenyl e...	5.858	248	5276	1.83 ug/ml	95
63) Hexachlorobenzene	5.899	284	5771	1.75 ug/ml	96
64) Pentachlorophenol	6.018	266	3129	1.30 ug/ml	99
65) Pentachloronitrobenzene	6.026	295	772	1.35 ug/ml	93
66) Phenanthrene	6.165	178	26932	1.87 ug/ml	98
67) Anthracene	6.198	178	26646	1.84 ug/ml	100
68) Carbazole	6.296	167	24930	1.81 ug/ml	98
69) Di-N-Butyl Phthalate	6.517	149	26622	1.63 ug/ml	99
70) Flouranthene	7.050	202	28653	1.69 ug/ml	98
73) Benzidine	7.156	184	11551	2.54 ug/ml	97
74) Pyrene	7.261	202	29838	1.87 ug/ml	97
75) Butylbenzyl phthalate	7.946	149	10938	1.57 ug/ml	95
76) 3,3'-Dichlorobenzidine	8.672	252	9696	1.74 ug/ml	96
77) Benzo(a)anthracene	8.706	228	29495	1.86 ug/ml	100
78) Chrysene	8.763	228	27254	1.84 ug/ml	98
79) Bis(2-ethylhexyl)phtha...	8.783	149	14863	1.71 ug/ml	98
81) Di-n-octylphthalate	9.973	149	24115	1.56 ug/ml	99
82) Benzo(b)fluoranthene	10.580	252	27197	1.79 ug/ml	99
83) Benzo(k)fluoranthene	10.634	252	24592	1.79 ug/ml	99
84) Benzo(a)pyrene	11.221	252	23764	1.74 ug/ml	100
85) Indeno(1,2,3-cd)pyrene	13.220	276	19566	1.75 ug/ml	88
86) Dibenz(a,h)anthracene	13.271	278	18347	1.69 ug/ml	98
87) Benzo(g,h,i)perylene	13.626	276	18567	1.76 ug/ml	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D021524\
Data File : D24S046010.D
Acq On : 15 Feb 2024 1:54 pm
Operator : BGL
Sample : 8270std 2 ppm 24a0091 Inst : GCMSSV4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 16 07:20:52 2024
Quant Method : C:\msdchem\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Fri Feb 16 07:17:14 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D021524\
Data File : D24S046011.D
Acq On : 15 Feb 2024 2:15 pm
Operator : BGL
Sample : 8270std 5 ppm 24A0084 Inst : GCMSSV4
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 16 07:32:32 2024
Quant Method : C:\msdchem\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Fri Feb 16 07:23:34 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-D4	3.404	152	155002	40.00	ug/ml	# 0.00
19) NAPHTHALENE-d8	4.143	136	570158	40.00	ug/ml	0.00
35) ACENAPHTHENE-D10	5.217	164	330921	40.00	ug/ml	0.00
58) PHENANTHRENE-D10	6.149	188	600589	40.00	ug/ml	0.00
71) CHRYSENE-D12	8.726	240	498278	40.00	ug/ml	0.00
80) PERYLENE-D12	11.345	264	527264	40.00	ug/ml	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	2.717	112	31005	8.21	ug/ml	0.00
Spiked Amount 200.000	Range 30 - 130		Recovery =	4.11%#		
3) Phenol-d6	3.167	99	52525	8.77	ug/ml	0.00
Spiked Amount 200.000	Range 30 - 130		Recovery =	4.38%#		
20) Nitrobenzene-d5	3.711	82	23635	4.47	ug/ml	0.00
Spiked Amount 100.000	Range 30 - 130		Recovery =	4.47%#		
36) 2-Fluorobiphenyl	4.790	172	47155	4.64	ug/ml	0.00
Spiked Amount 100.000	Range 30 - 130		Recovery =	4.64%#		
37) 2,4,6-Tribromophenol	5.706	330	13446	7.80	ug/ml	0.00
Spiked Amount 200.000	Range 30 - 130		Recovery =	3.90%#		
72) Terphenyl-d14	7.395	244	45775	4.55	ug/ml	0.00
Spiked Amount 100.000	Range 30 - 130		Recovery =	4.55%#		
Target Compounds						Qvalue
4) N-Nitrosodimethylamine	2.099	42	13208	4.13	ug/ml#	85
5) Pyridine	2.132	79	20147	3.67	ug/ml	85
6) Aniline	3.219	66	14449	5.10	ug/ml	97
7) Phenol	3.175	94	30147	4.48	ug/ml	96
8) Bis(2-chloroethyl)ether	3.242	63	16424	4.69	ug/ml	89
9) 2-Chlorophenol	3.286	128	23574	4.50	ug/ml	95
10) 1,3-Dichlorobenzene	3.376	146	27909	4.64	ug/ml	97
11) 1,4-Dichlorobenzene	3.415	146	27547	4.58	ug/ml	96
12) 1,2-Dichlorobenzene	3.500	146	25860	4.62	ug/ml	96
13) 2- METHYLPHENOL	3.512	108	21147	4.64	ug/ml	98
14) Bis(2-Chloroisopropyl)...	3.536	45	22340	4.82	ug/ml	82
15) Acetophenone	3.621	105	34725	4.84	ug/ml	98
16) 3/4- METHYLPHENOL	3.595	107	48534	9.41	ug/ml	99
17) N-Nitroso-Di-N-Propyla...	3.610	70	18391	4.81	ug/ml	97
18) Hexachloroethane	3.695	117	10692	4.74	ug/ml	98
21) NITROBENZENE	3.724	77	26087	4.48	ug/ml	100
22) Isophorone	3.855	82	44751	4.60	ug/ml	98
23) 2-Nitrophenol	3.906	139	10500	3.97	ug/ml	97
24) 2,4-Dimethylphenol	3.912	122	21974m	4.33	ug/ml	
25) Bis(2-Chloroethoxy)met...	3.971	93	25351	4.64	ug/ml	98
26) Benzoic Acid	3.924	122	9666m	3.21	ug/ml	
27) 2,4-Dichlorophenol	4.043	162	20967	4.44	ug/ml	96
28) 1,2,4-Trichlorobenzene	4.102	180	23655	4.54	ug/ml	97
29) Naphthalene	4.154	128	65959	4.65	ug/ml	99
30) 4-Chloroaniline	4.174	127	27898	4.80	ug/ml	98
31) Hexachlorobutadiene	4.218	225	14112	4.72	ug/ml	98
32) 4-Chloro-3-Methylphenol	4.450	107	20129	4.38	ug/ml	99
33) 2-MethylNaphthalene	4.571	142	44594	4.58	ug/ml	98
34) 1-Methylnaphthalene	4.633	142	41457	4.63	ug/ml	99
38) Hexachlorocyclopentadiene	4.663	237	13435	4.13	ug/ml	100
39) 1,2,4,5-Tetrachloroben...	4.671	216	24381	4.51	ug/ml	99
40) 2,4,6-Trichlorophenol	4.735	196	15266	4.34	ug/ml	98
41) 2,4,5-Trichlorophenol	4.756	196	15771	4.33	ug/ml	97
42) 2-ChloroNaphthalene	4.872	162	52235	4.50	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D021524\
Data File : D24S046011.D
Acq On : 15 Feb 2024 2:15 pm
Operator : BGL
Sample : 8270std 5 ppm 24A0084 Inst : GCMSSV4
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 16 07:32:32 2024
Quant Method : C:\msdchem\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Fri Feb 16 07:23:34 2024
Response via : Initial Calibration

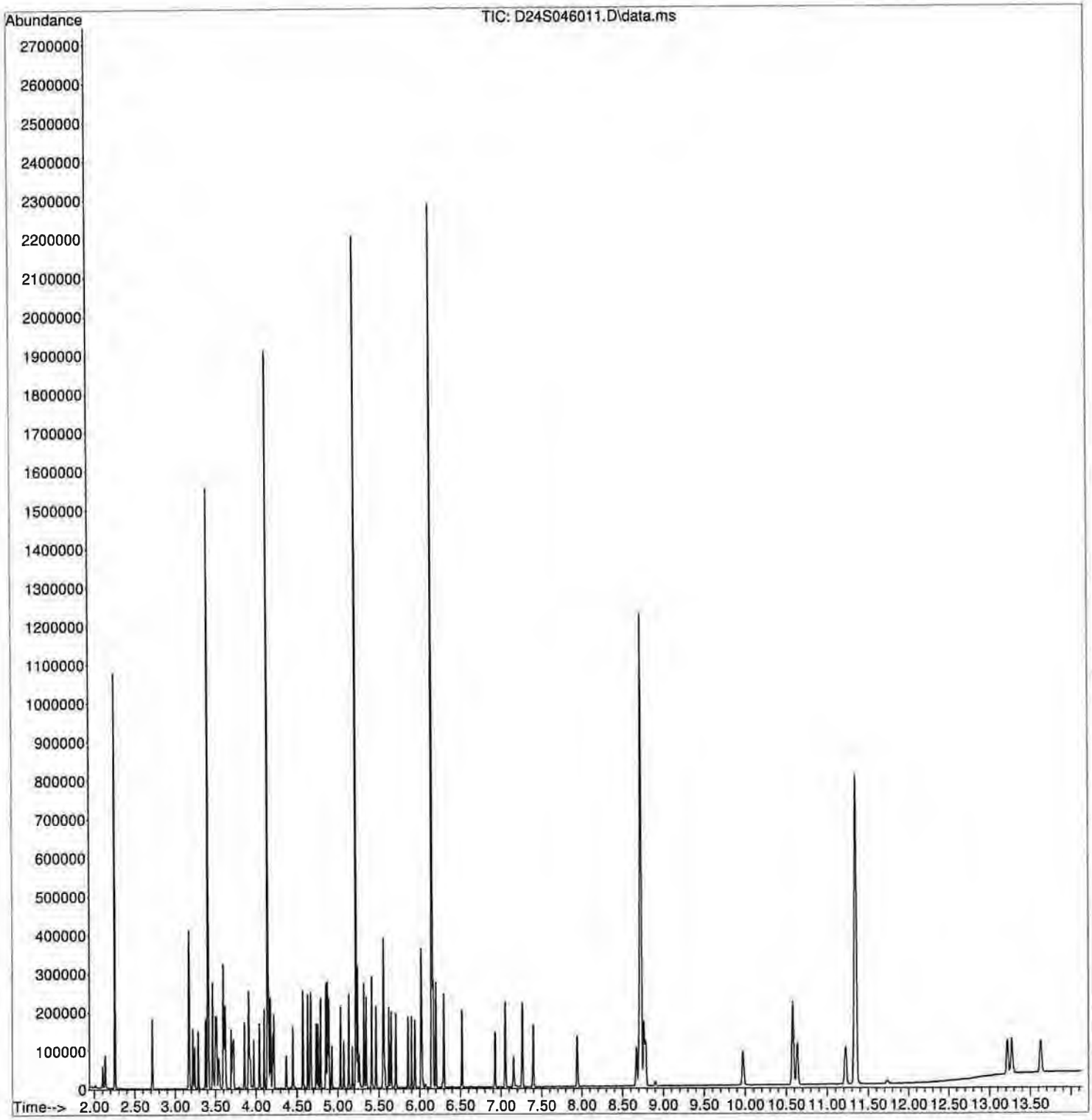
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) 2-Nitroaniline	4.926	65	11705	4.18 ug/ml	94
44) 1,1-Biphenyl	4.854	154	53710	4.71 ug/ml	98
45) DIMETHYL PHTHALATE	5.029	163	50882	4.69 ug/ml#	80
46) 2,6-DinitroToluene	5.070	165	8771	3.88 ug/ml	98
47) Acenaphthylene	5.132	152	69282	4.64 ug/ml	99
48) 3-Nitroaniline	5.178	138	9783	4.13 ug/ml	99
49) Acenaphthene	5.238	154	41852	4.54 ug/ml	97
50) 2,4-Dinitrophenol	5.240	184	2861	8.30 ug/ml#	1
51) 4-Nitrophenol	5.261	109	7040	4.11 ug/ml#	82
52) Dibenzofuran	5.343	168	61400	4.67 ug/ml	97
53) 2,4-Dinitrotoluene	5.320	165	10479	3.31 ug/ml	99
54) DIETHYL PHTHALATE	5.464	149	50129	4.71 ug/ml	99
55) 4-Chlorophenyl phenyl ...	5.549	204	24176	4.48 ug/ml	97
56) Flourene	5.557	166	50817	4.64 ug/ml	96
57) 4-Nitroaniline	5.554	138	10407	4.03 ug/ml	88
59) 4,6-Dinitro-2-Methylph...	5.572	198	4440	8.88 ug/ml	87
60) N-Nitrosodiphenylamine	5.619	169	33890	3.99 ug/ml	99
61) 1,2-Diphenylhydrazine	5.650	77	52251	4.88 ug/ml	99
62) 4-Bromophenyl phenyl e...	5.858	248	13900	4.43 ug/ml	97
63) Hexachlorobenzene	5.899	284	16300	4.53 ug/ml	97
64) Pentachlorophenol	6.018	266	10163	3.86 ug/ml	97
65) Pentachloronitrobenzene	6.025	295	2423	3.88 ug/ml	96
66) Phenanthrene	6.164	178	73084	4.66 ug/ml	99
67) Anthracene	6.198	178	73850	4.67 ug/ml	99
68) Carbazole	6.296	167	68657	4.56 ug/ml	100
69) Di-N-Butyl Phthalate	6.517	149	76512	4.29 ug/ml	99
70) Flouranthene	7.050	202	78896	4.27 ug/ml	98
73) Benzidine	7.156	184	27173	5.44 ug/ml	98
74) Pyrene	7.261	202	83858	4.78 ug/ml	99
75) Butylbenzyl phthalate	7.944	149	32233	4.22 ug/ml	97
76) 3,3'-Dichlorobenzidine	8.672	252	27603	4.51 ug/ml	99
77) Benzo(a)anthracene	8.708	228	81071	4.64 ug/ml	98
78) Chrysene	8.762	228	74715	4.59 ug/ml	100
79) Bis(2-ethylhexyl)phtha...	8.783	149	43190	4.52 ug/ml	98
81) Di-n-octylphthalate	9.973	149	74505	4.20 ug/ml	100
82) Benzo(b)fluoranthene	10.580	252	76711	4.35 ug/ml	99
83) Benzo(k)fluoranthene	10.637	252	70384	4.46 ug/ml	99
84) Benzo(a)pyrene	11.221	252	68254	4.36 ug/ml	99
85) Indeno(1,2,3-cd)pyrene	13.219	276	55531	4.33 ug/ml	99
86) Dibenz(a,h)anthracene	13.271	278	53143	4.26 ug/ml	98
87) Benzo(g,h,i)perylene	13.631	276	53840	4.45 ug/ml	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D021524\
Data File : D24S046011.D
Acq On : 15 Feb 2024 2:15 pm
Operator : BGL
Sample : 8270std 5 ppm 24A0084 Inst : GCMSSV4
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 16 07:32:32 2024
Quant Method : C:\msdchem\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Fri Feb 16 07:23:34 2024
Response via : Initial Calibration

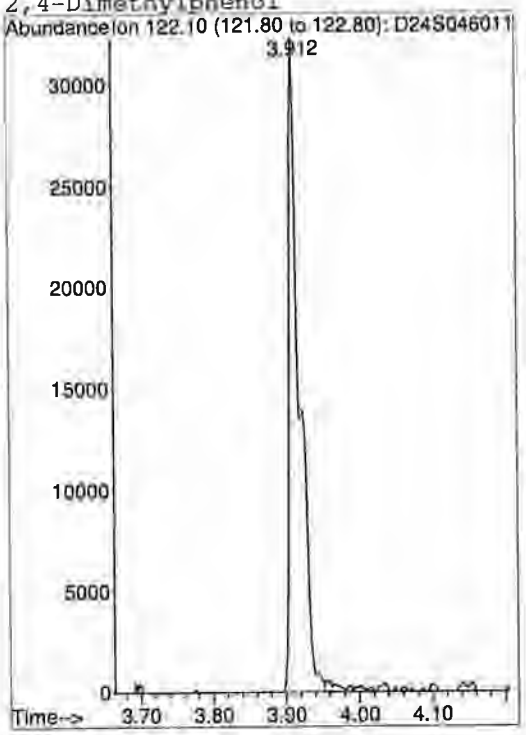


Manual Integration Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D021524\
Data File : D24S046011.D
Acq On : 15 Feb 2024 2:15 pm
Operator : BGL
Sample : 8270std 5 ppm 24A0084
Misc :

Quant Time : Fri Feb 16 07:32:32 2024
Quant Method : C:\msdchem\1\METHODS\BND02154.M
QLast Update : Fri Feb 16 07:23:34 2024

Original Integration
2,4-Dimethylphenol



Original Int. Results

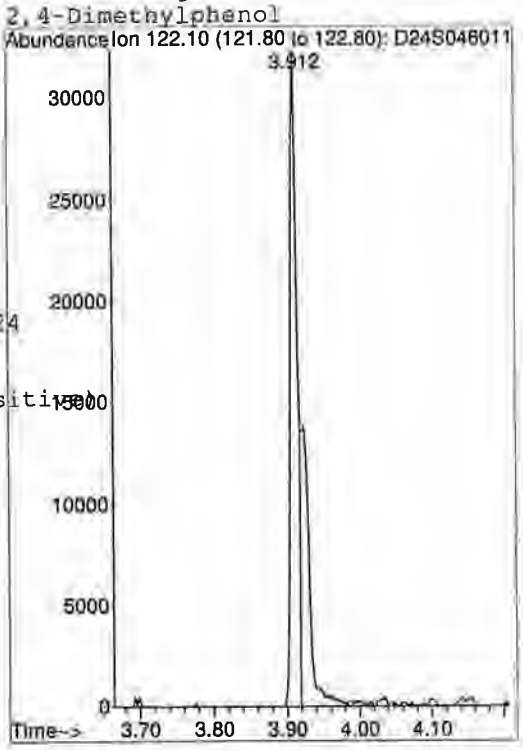
RT : 3.91
Area : 31643
Amount: 6.23728

Manual Int. Results

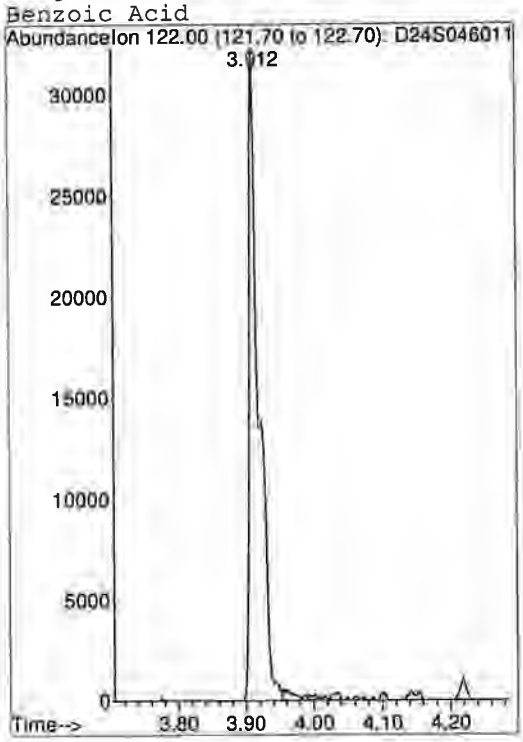
Fri Feb 16 07:32:04 2024

MIuser: BGL
Reason: QDel (False Positive)
RT : 3.91
Area : 21974
Amount: 4.33139

Manual Integration
2,4-Dimethylphenol



Original Integration
Benzoic Acid



Original Int. Results

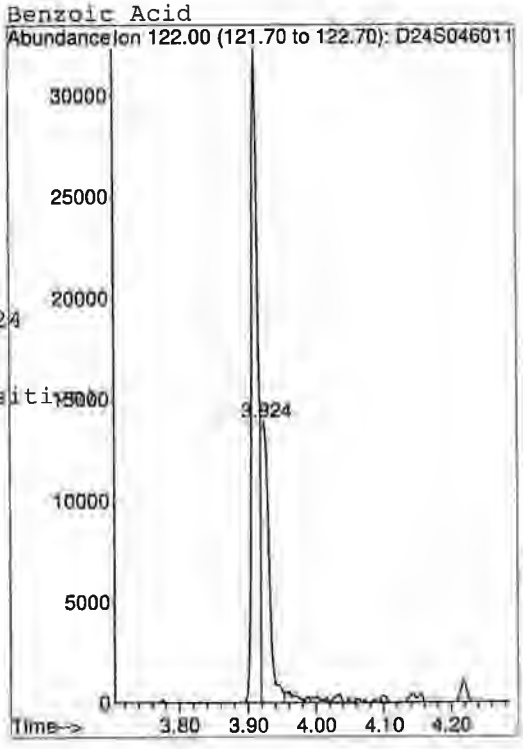
RT : 3.91
Area : 31643
Amount: 10.5076

Manual Int. Results

Fri Feb 16 07:32:32 2024

MIuser: BGL
Reason: QDel (False Positive)
RT : 3.92
Area : 9666
Amount: 3.20978

Manual Integration
Benzoic Acid



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D021524\
Data File : D24S046012.D
Acq On : 15 Feb 2024 2:36 pm
Operator : BGL
Sample : 8270std 10 ppm 24A0085 Inst : GCMSSV4
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 16 07:34:05 2024
Quant Method : C:\msdchem\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Fri Feb 16 07:33:14 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-D4	3.405	152	119688	40.00	ug/ml	0.00
19) NAPHTHALENE-d8	4.141	136	443236	40.00	ug/ml	0.00
35) ACENAPHTHENE-D10	5.217	164	254065	40.00	ug/ml	0.00
58) PHENANTHRENE-D10	6.149	188	457561	40.00	ug/ml	0.00
71) CHRYSENE-D12	8.724	240	405924	40.00	ug/ml	0.00
80) PERYLENE-D12	11.345	264	424760	40.00	ug/ml	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	2.717	112	52529	18.02	ug/ml	0.00
Spiked Amount 200.000	Range 30 - 130		Recovery =	9.01%#		
3) Phenol-d6	3.168	99	85949	18.58	ug/ml	0.00
Spiked Amount 200.000	Range 30 - 130		Recovery =	9.29%#		
20) Nitrobenzene-d5	3.711	82	37997	9.25	ug/ml	0.00
Spiked Amount 100.000	Range 30 - 130		Recovery =	9.25%#		
36) 2-Fluorobiphenyl	4.790	172	75172	9.64	ug/ml	0.00
Spiked Amount 100.000	Range 30 - 130		Recovery =	9.64%#		
37) 2,4,6-Tribromophenol	5.706	330	22016	16.62	ug/ml	0.00
Spiked Amount 200.000	Range 30 - 130		Recovery =	8.31%#		
72) Terphenyl-d14	7.395	244	74723	9.12	ug/ml	0.00
Spiked Amount 100.000	Range 30 - 130		Recovery =	9.12%#		
Target Compounds						Qvalue
4) N-Nitrosodimethylamine	2.102	42	22079	8.94	ug/ml#	85
5) Pyridine	2.133	79	36971	8.73	ug/ml	86
6) Aniline	3.219	66	23111	10.56	ug/ml	93
7) Phenol	3.175	94	49485	9.53	ug/ml	96
8) Bis(2-chloroethyl)ether	3.242	63	25883	9.57	ug/ml	88
9) 2-Chlorophenol	3.289	128	38097	9.42	ug/ml	96
10) 1,3-Dichlorobenzene	3.376	146	44258	9.54	ug/ml	98
11) 1,4-Dichlorobenzene	3.415	146	44777	9.63	ug/ml	98
12) 1,2-Dichlorobenzene	3.500	146	42587	9.85	ug/ml	96
13) 2- METHYLPHENOL	3.513	108	34844	9.91	ug/ml	97
14) Bis(2-Chloroisopropyl)...	3.536	45	36111	10.08	ug/ml	92
15) Acetophenone	3.621	105	54676	9.87	ug/ml	99
16) 3/4- METHYLPHENOL	3.595	107	79252	20 19.90	ug/ml	99
17) N-Nitroso-Di-N-Propyla...	3.611	70	29427	9.97	ug/ml	96
18) Hexachloroethane	3.696	117	16973	9.75	ug/ml	96
21) NITROBENZENE	3.724	77	42493	9.39	ug/ml	99
22) Isophorone	3.858	82	72022	9.53	ug/ml	99
23) 2-Nitrophenol	3.907	139	17358	8.44	ug/ml	99
24) 2,4-Dimethylphenol	3.912	122	35544	9.53	ug/ml	96
25) Bis(2-Chloroethoxy)met...	3.974	93	40510	9.53	ug/ml	100
26) Benzoic Acid	3.930	122	16352	6.98	ug/ml#	88
27) 2,4-Dichlorophenol	4.046	162	34265	9.33	ug/ml	97
28) 1,2,4-Trichlorobenzene	4.102	180	37902	9.35	ug/ml	98
29) Naphthalene	4.156	128	106023	9.61	ug/ml	100
30) 4-Chloroaniline	4.174	127	44791	9.92	ug/ml	98
31) Hexachlorobutadiene	4.218	225	21482	9.25	ug/ml	98
32) 4-Chloro-3-Methylphenol	4.450	107	32584	9.13	ug/ml	97
33) 2-MethylNaphthalene	4.571	142	71223	9.42	ug/ml	98
34) 1-Methylnaphthalene	4.633	142	66702	9.59	ug/ml	99
38) Hexachlorocyclopentadiene	4.664	237	21730	8.70	ug/ml	100
39) 1,2,4,5-Tetrachloroben...	4.671	216	38243	9.22	ug/ml	99
40) 2,4,6-Trichlorophenol	4.736	196	24796	9.18	ug/ml	99
41) 2,4,5-Trichlorophenol	4.756	196	26261	9.38	ug/ml	99
42) 2-ChloroNaphthalene	4.872	162	83965	9.42	ug/ml	99

Data Path : C:\msdchem\1\DATA\D021524\
Data File : D24S046012.D
Acq On : 15 Feb 2024 2:36 pm
Operator : BGL
Sample : 8270std 10 ppm 24A0085 Inst : GCMSSV4
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 16 07:34:05 2024
Quant Method : C:\msdchem\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Fri Feb 16 07:33:14 2024
Response via : Initial Calibration

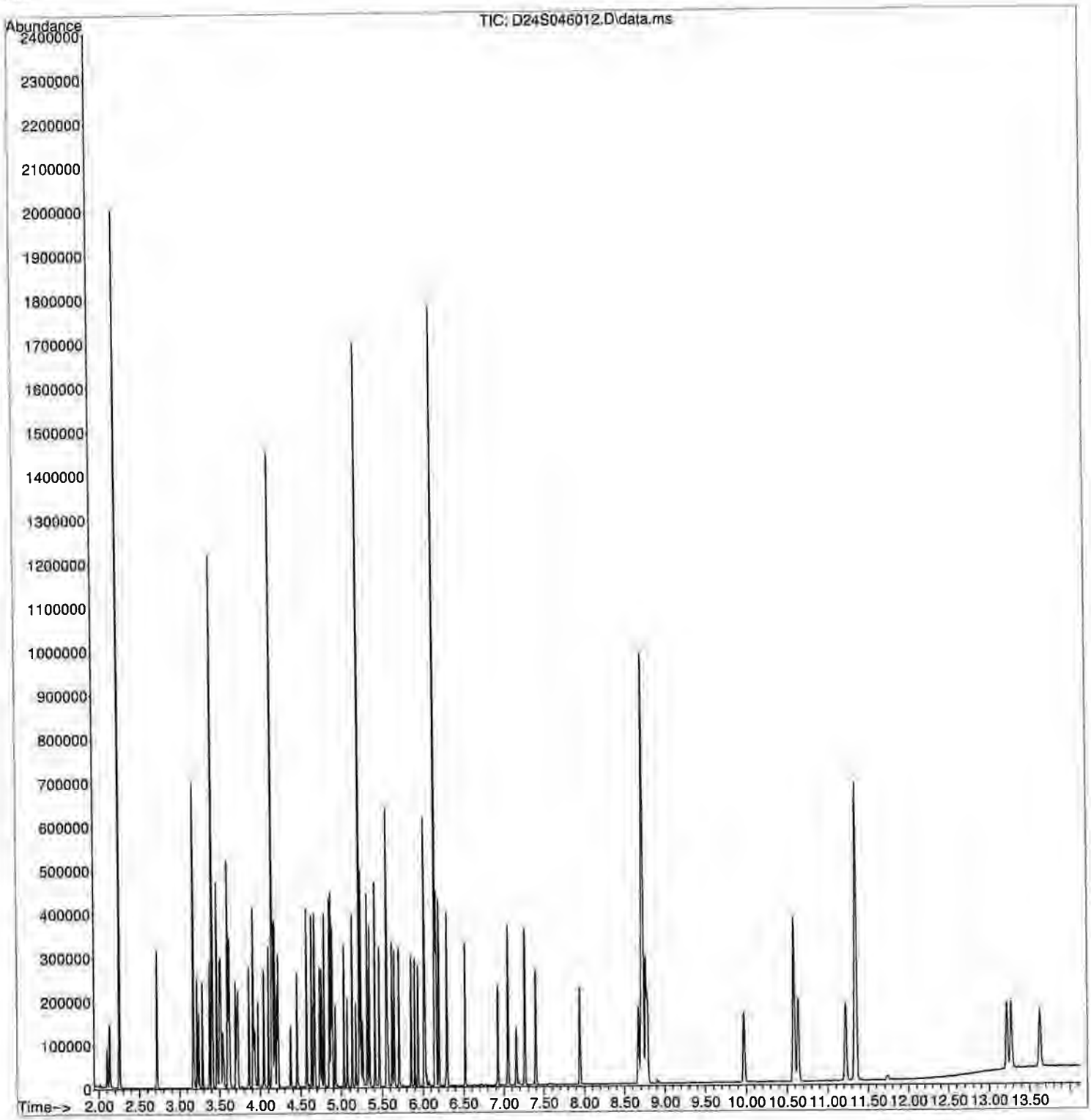
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) 2-Nitroaniline	4.926	65	19648	9.14 ug/ml	93
44) 1,1-Biphenyl	4.854	154	84477	9.66 ug/ml	99
45) DIMETHYL PHTHALATE	5.029	163	81416	9.76 ug/ml#	80
46) 2,6-DinitroToluene	5.070	165	14619	8.43 ug/ml	99
47) Acenaphthylene	5.132	152	111664	9.73 ug/ml	99
48) 3-Nitroaniline	5.179	138	16580	9.12 ug/ml	99
49) Acenaphthene	5.238	154	66894	9.45 ug/ml	96
50) 2,4-Dinitrophenol	5.240	184	5053	10.98 ug/ml#	9
51) 4-Nitrophenol	5.261	109	11218	8.54 ug/ml#	87
52) Dibenzofuran	5.343	168	97610	9.67 ug/ml	97
53) 2,4-Dinitrotoluene	5.320	165	18177	7.49 ug/ml	99
54) DIETHYL PHTHALATE	5.464	149	76980	9.42 ug/ml	99
55) 4-Chlorophenyl phenyl ...	5.549	204	38736	9.36 ug/ml	98
56) Flourene	5.557	166	81168	9.65 ug/ml	95
57) 4-Nitroaniline	5.557	138	17270	8.70 ug/ml	89
59) 4,6-Dinitro-2-Methylph...	5.572	198	7658	11.72 ug/ml	86
60) N-Nitrosodiphenylamine	5.619	169	53984	8.34 ug/ml	99
61) 1,2-Diphenylhydrazine	5.650	77	80847	9.91 ug/ml	97
62) 4-Bromophenyl phenyl e...	5.856	248	21943	9.17 ug/ml	97
63) Hexachlorobenzene	5.899	284	25058	9.14 ug/ml	97
64) Pentachlorophenol	6.018	266	16223	8.09 ug/ml	99
65) Pentachloronitrobenzene	6.026	295	3980	8.36 ug/ml	99
66) Phenanthrene	6.165	178	114782	9.61 ug/ml	99
67) Anthracene	6.198	178	116241	9.66 ug/ml	99
68) Carbazole	6.296	167	110034	9.60 ug/ml	100
69) Di-N-Butyl Phthalate	6.515	149	120112	8.84 ug/ml	99
70) Flouranthene	7.050	202	128807	9.14 ug/ml	98
73) Benzidine	7.156	184	47388	11.65 ug/ml	99
74) Pyrene	7.262	202	137421	9.61 ug/ml	99
75) Butylbenzyl phthalate	7.944	149	55216	8.88 ug/ml	100
76) 3,3'-Dichlorobenzidine	8.670	252	47221	9.47 ug/ml	98
77) Benzo(a)anthracene	8.709	228	132914	9.34 ug/ml	99
78) Chrysene	8.763	228	126456	9.54 ug/ml	100
79) Bis(2-ethylhexyl)phtha...	8.783	149	72519	9.31 ug/ml	98
81) Di-n-octylphthalate	9.973	149	124493	8.71 ug/ml	99
82) Benzo(b)fluoranthene	10.580	252	133143	9.29 ug/ml	100
83) Benzo(k)fluoranthene	10.634	252	119830	9.43 ug/ml	99
84) Benzo(a)pyrene	11.222	252	117833	9.33 ug/ml	100
85) Indeno(1,2,3-cd)pyrene	13.217	276	92837	8.98 ug/ml	99
86) Dibenz(a,h)anthracene	13.274	278	90046	8.96 ug/ml	98
87) Benzo(g,h,i)perylene	13.629	276	90151	9.24 ug/ml	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D021524\
Data File : D24S046012.D
Acq On : 15 Feb 2024 2:36 pm
Operator : BGL
Sample : 8270std 10 ppm 24A0085 Inst : GCMSSV4
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 16 07:34:05 2024
Quant Method : C:\msdchem\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Fri Feb 16 07:33:14 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D021524\
Data File : D24S046013.D
Acq On : 15 Feb 2024 2:58 pm
Operator : BGL
Sample : 8270std 20 ppm 24A0086 Inst : GCMSSV4
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 16 07:36:18 2024
Quant Method : C:\msdchem\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Fri Feb 16 07:35:25 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-D4	3.405	152	119344	40.00	ug/ml	0.00
19) NAPHTHALENE-d8	4.144	136	426043	40.00	ug/ml	0.00
35) ACENAPHTHENE-D10	5.220	164	245888	40.00	ug/ml	0.00
58) PHENANTHRENE-D10	6.149	188	440836	40.00	ug/ml	0.00
71) CHRYSENE-D12	8.727	240	406326	40.00	ug/ml	0.00
80) PERYLENE-D12	11.345	264	430088	40.00	ug/ml	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	2.717	112	113668	39.10	ug/ml	0.00
Spiked Amount 200.000	Range 30 - 130		Recovery = 19.55%#			
3) Phenol-d6	3.170	99	182330	39.54	ug/ml	0.00
Spiked Amount 200.000	Range 30 - 130		Recovery = 19.77%#			
20) Nitrobenzene-d5	3.714	82	80215	20.32	ug/ml	0.00
Spiked Amount 100.000	Range 30 - 130		Recovery = 20.32%#			
36) 2-Fluorobiphenyl	4.790	172	154827	20.52	ug/ml	0.00
Spiked Amount 100.000	Range 30 - 130		Recovery = 20.52%#			
37) 2,4,6-Tribromophenol	5.706	330	46311	36.13	ug/ml	0.00
Spiked Amount 200.000	Range 30 - 130		Recovery = 18.07%#			
72) Terphenyl-d14	7.398	244	159131	19.41	ug/ml	0.00
Spiked Amount 100.000	Range 30 - 130		Recovery = 19.41%#			
Target Compounds						Qvalue
4) N-Nitrosodimethylamine	2.102	42	47217	19.18	ug/ml#	85
5) Pyridine	2.130	79	80863	19.14	ug/ml	85
6) Aniline	3.222	66	46459	21.28	ug/ml	93
7) Phenol	3.178	94	104654	20.22	ug/ml	97
8) Bis(2-chloroethyl)ether	3.242	63	53755	19.93	ug/ml	88
9) 2-Chlorophenol	3.289	128	80123	19.88	ug/ml	95
10) 1,3-Dichlorobenzene	3.376	146	91489	19.78	ug/ml	96
11) 1,4-Dichlorobenzene	3.415	146	92123	19.88	ug/ml	97
12) 1,2-Dichlorobenzene	3.500	146	86847	20.14	ug/ml	97
13) 2- METHYLPHENOL	3.513	108	70035	19.97	ug/ml	100
14) Bis(2-Chloroisopropyl)...	3.538	45	72440	20.29	ug/ml	85
15) Acetophenone	3.621	105	111256	20.14	ug/ml	100
16) 3/4- METHYLPHENOL	3.598	107	163757	41.24	ug/ml	98
17) N-Nitroso-Di-N-Propyla...	3.613	70	59560	20.24	ug/ml	94
18) Hexachloroethane	3.696	117	35259	20.31	ug/ml	96
21) NITROBENZENE	3.724	77	89655	20.61	ug/ml	99
22) Isophorone	3.858	82	146133	20.12	ug/ml	98
23) 2-Nitrophenol	3.909	139	37982	19.20	ug/ml	98
24) 2,4-Dimethylphenol	3.912	122	71144	19.85	ug/ml	98
25) Bis(2-Chloroethoxy)met...	3.974	93	82148	20.11	ug/ml	99
26) Benzoic Acid	3.940	122	39219	17.43	ug/ml	91
27) 2,4-Dichlorophenol	4.046	162	70288	19.91	ug/ml	96
28) 1,2,4-Trichlorobenzene	4.102	180	78012	20.02	ug/ml	98
29) Naphthalene	4.156	128	215215	20.29	ug/ml	100
30) 4-Chloroaniline	4.174	127	89367	20.59	ug/ml	99
31) Hexachlorobutadiene	4.218	225	44590	19.97	ug/ml	99
32) 4-Chloro-3-Methylphenol	4.452	107	68601	19.99	ug/ml	98
33) 2-MethylNaphthalene	4.571	142	145043	19.95	ug/ml	98
34) 1-Methylnaphthalene	4.633	142	134015	20.04	ug/ml	99
38) Hexachlorocyclopentadiene	4.664	237	47257	19.56	ug/ml	99
39) 1,2,4,5-Tetrachloroben...	4.671	216	79690	19.86	ug/ml	99
40) 2,4,6-Trichlorophenol	4.736	196	51770	19.80	ug/ml	99
41) 2,4,5-Trichlorophenol	4.756	196	55578	20.52	ug/ml	99
42) 2-ChloroNaphthalene	4.875	162	180983	20.98	ug/ml	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D021524\
Data File : D24S046013.D
Acq On : 15 Feb 2024 2:58 pm
Operator : BGL
Sample : 8270std 20 ppm 24A0086 Inst : GCMSSV4
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 16 07:36:18 2024
Quant Method : C:\msdchem\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Fri Feb 16 07:35:25 2024
Response via : Initial Calibration

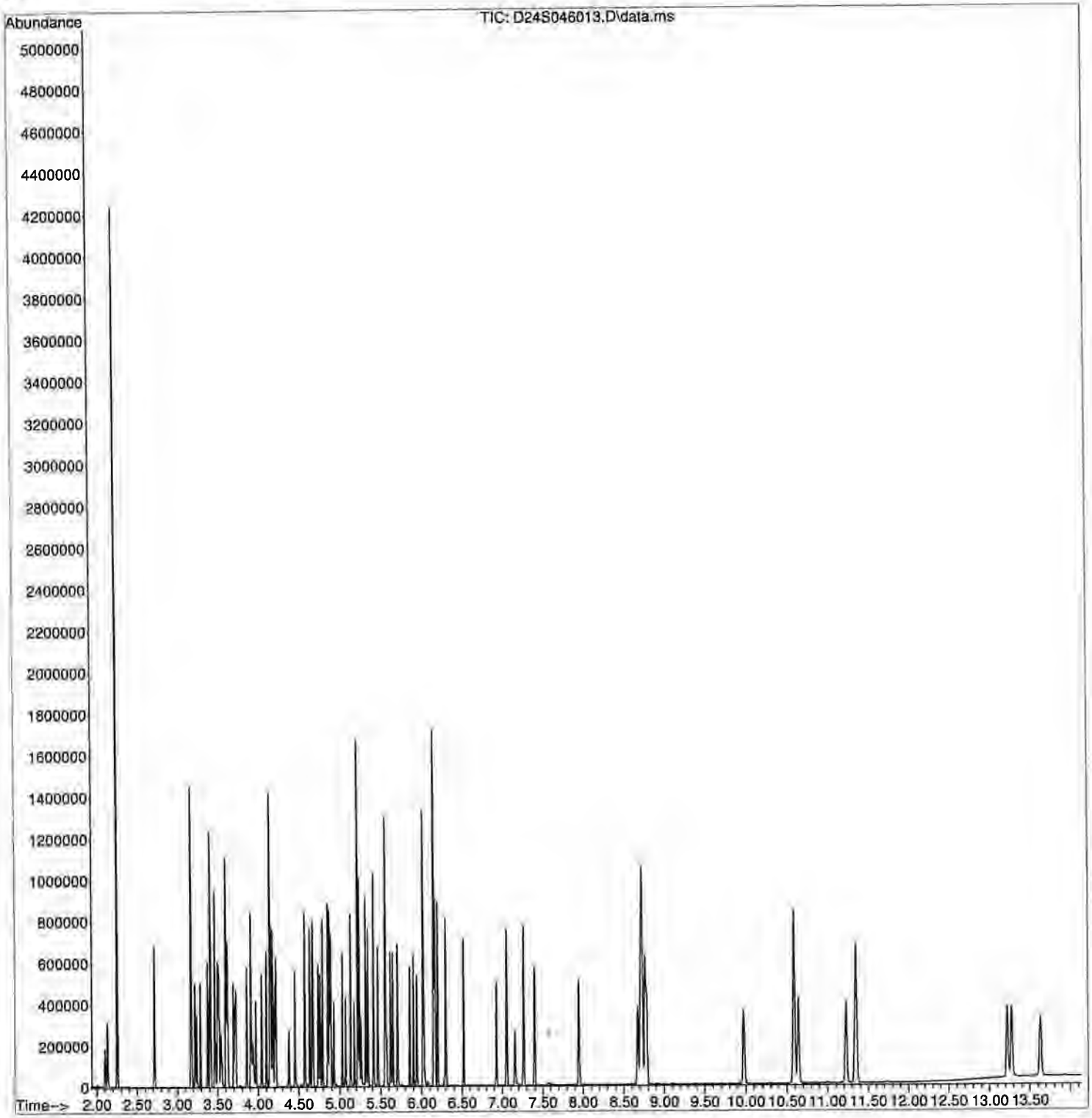
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) 2-Nitroaniline	4.926	65	41754	20.07 ug/ml	92
44) 1,1-Biphenyl	4.854	154	175134	20.69 ug/ml	99
45) DIMETHYL PHTHALATE	5.029	163	165352	20.49 ug/ml	100
46) 2,6-DinitroToluene	5.073	165	32060	19.10 ug/ml	99
47) Acenaphthylene	5.132	152	226061	20.36 ug/ml	99
48) 3-Nitroaniline	5.179	138	36677	20.84 ug/ml	94
49) Acenaphthene	5.238	154	136956	20.00 ug/ml	97
50) 2,4-Dinitrophenol	5.240	184	12936	18.78 ug/ml#	66
51) 4-Nitrophenol	5.261	109	25170	19.79 ug/ml#	84
52) Dibenzofuran	5.346	168	199402	20.41 ug/ml	97
53) 2,4-Dinitrotoluene	5.320	165	42932	18.27 ug/ml	94
54) DIETHYL PHTHALATE	5.467	149	156683	19.82 ug/ml	99
55) 4-Chlorophenyl phenyl ...	5.549	204	79132	19.75 ug/ml	98
56) Flourene	5.560	166	164582	20.23 ug/ml	94
57) 4-Nitroaniline	5.557	138	37216	19.37 ug/ml	94
59) 4,6-Dinitro-2-Methylph...	5.575	198	18722	19.54 ug/ml	88
60) N-Nitrosodiphenylamine	5.621	169	108621	17.41 ug/ml	99
61) 1,2-Diphenylhydrazine	5.650	77	162673	20.69 ug/ml	98
62) 4-Bromophenyl phenyl e...	5.858	248	45687	19.82 ug/ml	98
63) Hexachlorobenzene	5.899	284	51992	19.68 ug/ml	98
64) Pentachlorophenol	6.018	266	36354	18.82 ug/ml	100
65) Pentachloronitrobenzene	6.026	295	8948	19.51 ug/ml	98
66) Phenanthrene	6.165	178	234711	20.40 ug/ml	99
67) Anthracene	6.198	178	235541	20.31 ug/ml	100
68) Carbazole	6.296	167	224253	20.31 ug/ml	100
69) Di-N-Butyl Phthalate	6.517	149	261286	19.95 ug/ml	99
70) Flouranthene	7.053	202	271663	20.02 ug/ml	98
73) Benzidine	7.156	184	91101	22.38 ug/ml	98
74) Pyrene	7.264	202	289474	20.21 ug/ml	99
75) Butylbenzyl phthalate	7.946	149	122996	19.76 ug/ml	97
76) 3,3'-Dichlorobenzidine	8.673	252	96683	19.38 ug/ml	99
77) Benzo(a)anthracene	8.711	228	284594	19.99 ug/ml	99
78) Chrysene	8.765	228	264441	19.93 ug/ml	99
79) Bis(2-ethylhexyl)phtha...	8.783	149	160316	20.56 ug/ml	99
81) Di-n-octylphthalate	9.973	149	280676	19.40 ug/ml	99
82) Benzo(b)fluoranthene	10.586	252	287153	19.54 ug/ml	100
83) Benzo(k)fluoranthene	10.642	252	253214	19.69 ug/ml	98
84) Benzo(a)pyrene	11.227	252	253499	19.83 ug/ml	99
85) Indeno(1,2,3-cd)pyrene	13.222	276	204574	19.54 ug/ml	99
86) Dibenz(a,h)anthracene	13.279	278	200068	19.66 ug/ml	98
87) Benzo(g,h,i)perylene	13.634	276	196630	19.91 ug/ml	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

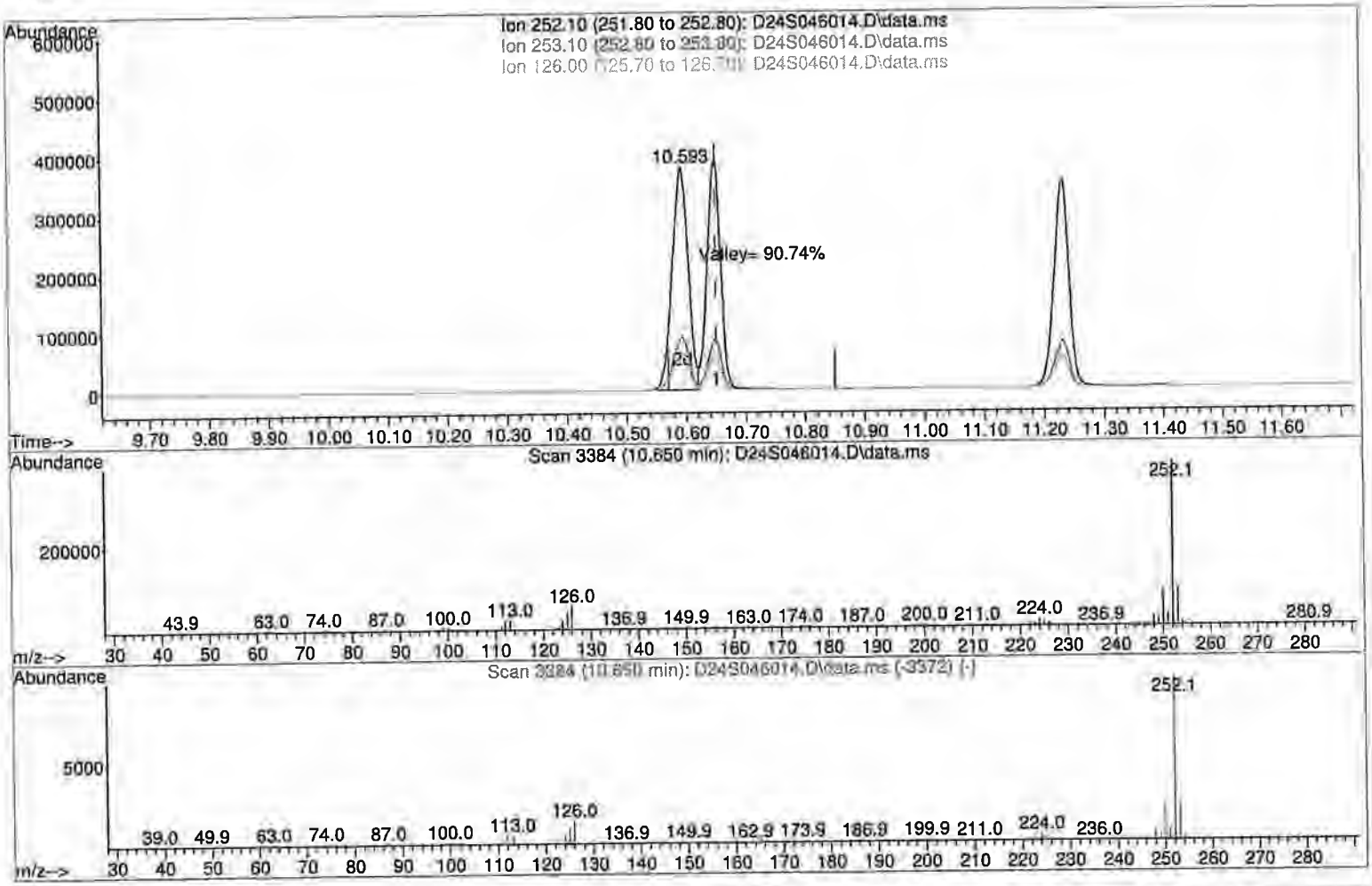
Data Path : C:\msdchem\1\DATA\D021524\
Data File : D24S046013.D
Acq On : 15 Feb 2024 2:58 pm
Operator : BGL
Sample : 8270std 20 ppm 24A0086 Inst : GCMSSV4
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 16 07:36:18 2024
Quant Method : C:\msdchem\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Fri Feb 16 07:35:25 2024
Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\D021524\
Data File : D24S046014.D
Acq On : 15 Feb 2024 3:19 pm
Operator : BGL
Sample : 8270std 50 ppm 24A0087 Inst : GCMSSV4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 16 07:38:43 2024
Quant Method : C:\msdchem\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Fri Feb 16 07:37:49 2024
Response via : Initial Calibration



TIC: D24S046014.D\data.ms

(83) Benzo(k)fluoranthene

10.650min (0.000) 55.10 ug/ml

response 610300

Ion	Exp%	Act%
252.10	100	100
253.10	21.80	21.92
126.00	16.60	14.83
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D021524\
Data File : D24S046014.D
Acq On : 15 Feb 2024 3:19 pm
Operator : BGL
Sample : 8270std 50 ppm 24A0087 Inst : GCMSSV4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 16 07:38:43 2024
Quant Method : C:\msdchem\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Fri Feb 16 07:37:49 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-D4	3.404	152	94037	40.00 ug/ml	0.00
19) NAPHTHALENE-d8	4.143	136	341847	40.00 ug/ml	0.00
35) ACENAPHTHENE-D10	5.220	164	198706	40.00 ug/ml	0.00
58) PHENANTHRENE-D10	6.149	188	360785	40.00 ug/ml	0.00
71) CHRYSENE-D12	8.729	240	354876	40.00 ug/ml	0.00
80) PERYLENE-D12	11.345	264	370376	40.00 ug/ml	0.00
System Monitoring Compounds					
2) 2-Fluorophenol	2.717	112	255657	111.60 ug/ml	0.00
Spiked Amount 200.000	Range 30 - 130		Recovery = 55.80%		
3) Phenol-d6	3.173	99	402490	110.77 ug/ml	0.00
Spiked Amount 200.000	Range 30 - 130		Recovery = 55.38%		
20) Nitrobenzene-d5	3.713	82	170408	53.81 ug/ml	0.00
Spiked Amount 100.000	Range 30 - 130		Recovery = 53.81%		
36) 2-Fluorobiphenyl	4.790	172	335017	54.96 ug/ml	0.00
Spiked Amount 100.000	Range 30 - 130		Recovery = 54.96%		
37) 2,4,6-Tribromophenol	5.709	330	106580	102.90 ug/ml	0.00
Spiked Amount 200.000	Range 30 - 130		Recovery = 51.45%		
72) Terphenyl-d14	7.398	244	378206	52.82 ug/ml	0.00
Spiked Amount 100.000	Range 30 - 130		Recovery = 52.82%		
Target Compounds					Qvalue
4) N-Nitrosodimethylamine	2.102	42	104817	54.03 ug/ml	87
5) Pyridine	2.130	79	184346	55.39 ug/ml	85
6) Aniline	3.222	66	91678	53.30 ug/ml	92
7) Phenol	3.180	94	229014	56.14 ug/ml	97
8) Bis(2-chloroethyl)ether	3.245	63	115768	54.47 ug/ml	88
9) 2-Chlorophenol	3.289	128	173870	54.75 ug/ml	95
10) 1,3-Dichlorobenzene	3.376	146	197426	54.16 ug/ml	97
11) 1,4-Dichlorobenzene	3.415	146	198584	54.39 ug/ml	96
12) 1,2-Dichlorobenzene	3.500	146	184846	54.40 ug/ml	97
13) 2- METHYLPHENOL	3.515	108	149345	54.06 ug/ml	99
14) Bis(2-Chloroisopropyl)...	3.538	45	151795	53.96 ug/ml	82
15) Acetophenone	3.623	105	235293	54.06 ug/ml	99
16) 3/4- METHYLPHENOL	3.603	107	348406 W	111.35 ug/ml	98
17) N-Nitroso-Di-N-Propyla...	3.615	70	125182 W	54.00 ug/ml#	82
18) Hexachloroethane	3.695	117	73999	54.10 ug/ml	93
21) NITROBENZENE	3.726	77	188431	53.99 ug/ml	99
22) Isophorone	3.860	82	310609	53.31 ug/ml	98
23) 2-Nitrophenol	3.909	139	88660	55.87 ug/ml	95
24) 2,4-Dimethylphenol	3.914	122	155550	54.08 ug/ml	98
25) Bis(2-Chloroethoxy)met...	3.973	93	174928	53.36 ug/ml	99
26) Benzoic Acid	3.955	122	98368	54.48 ug/ml	96
27) 2,4-Dichlorophenol	4.045	162	151764	53.59 ug/ml	97
28) 1,2,4-Trichlorobenzene	4.102	180	168232	53.82 ug/ml	98
29) Naphthalene	4.156	128	464961	54.64 ug/ml	100
30) 4-Chloroaniline	4.177	127	186965	53.68 ug/ml	98
31) Hexachlorobutadiene	4.218	225	97136	54.21 ug/ml	100
32) 4-Chloro-3-Methylphenol	4.455	107	148005	53.76 ug/ml	97
33) 2-MethylNaphthalene	4.573	142	319041	54.68 ug/ml	99
34) 1-Methylnaphthalene	4.635	142	290958	54.23 ug/ml	99
38) Hexachlorocyclopentadiene	4.663	237	108696	55.67 ug/ml	100
39) 1,2,4,5-Tetrachloroben...	4.671	216	176730	54.50 ug/ml	99
40) 2,4,6-Trichlorophenol	4.736	196	115582	54.71 ug/ml	99
41) 2,4,5-Trichlorophenol	4.759	196	119000	54.37 ug/ml	98
42) 2-ChloroNaphthalene	4.875	162	370965	53.20 ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D021524\
Data File : D24S046014.D
Acq On : 15 Feb 2024 3:19 pm
Operator : BGL
Sample : 8270std 50 ppm 24A0087 Inst : GCMSSV4
Misc :
ALS Vial : 14 Sample Multiplier: 1

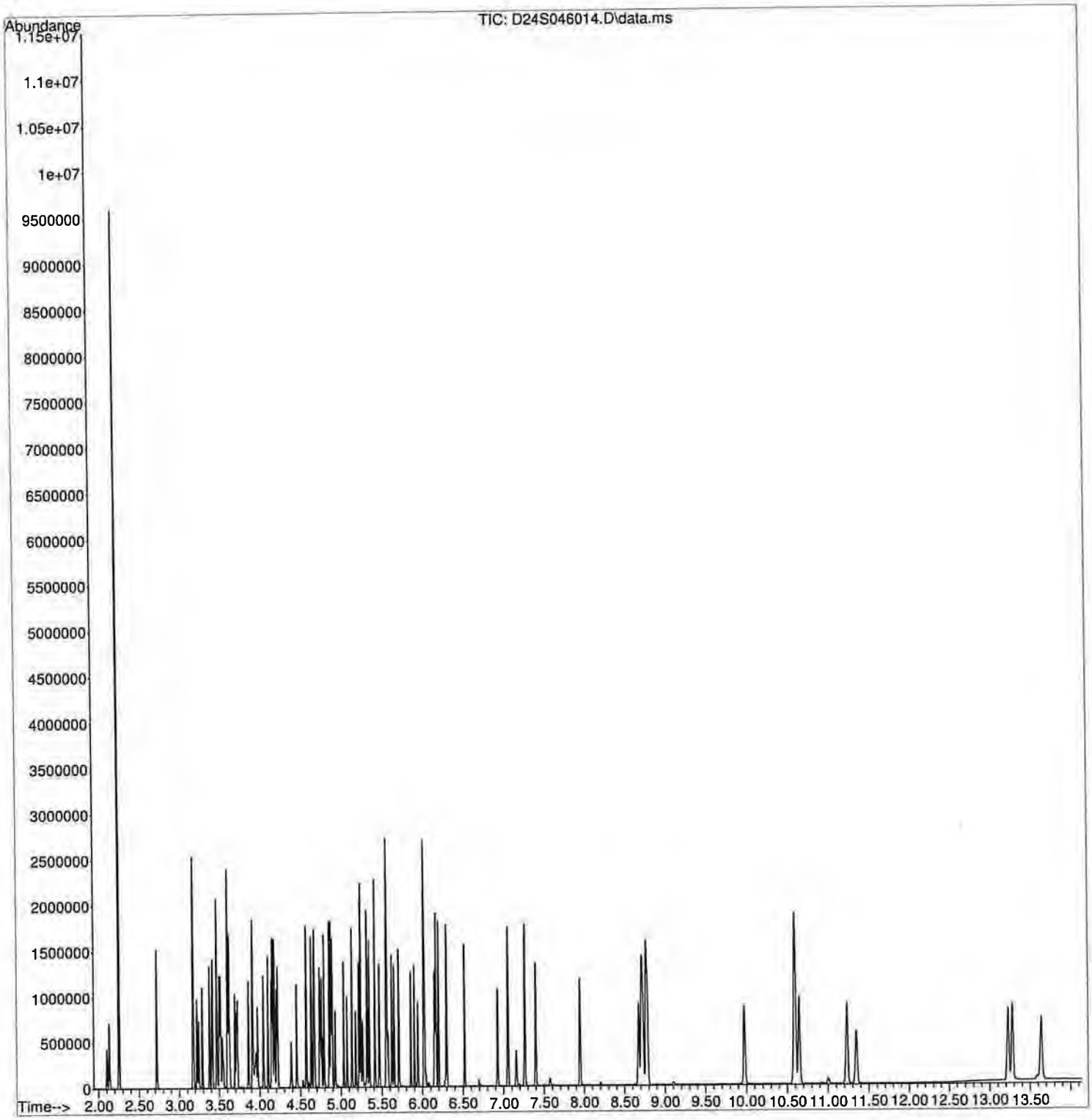
Quant Time: Feb 16 07:38:43 2024
Quant Method : C:\msdchem\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Fri Feb 16 07:37:49 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) 2-Nitroaniline	4.929	65	91857	54.65 ug/ml	91
44) 1,1-Biphenyl	4.857	154	374925	54.80 ug/ml	99
45) DIMETHYL PHTHALATE	5.032	163	350207	53.70 ug/ml	100
46) 2,6-DinitroToluene	5.073	165	75573	55.72 ug/ml	96
47) Acenaphthylene	5.132	152	493282	54.97 ug/ml	99
48) 3-Nitroaniline	5.181	138	78875	55.45 ug/ml	94
49) Acenaphthene	5.240	154	301087	54.40 ug/ml	99
50) 2,4-Dinitrophenol	5.243	184	35857	49.28 ug/ml#	87
51) 4-Nitrophenol	5.263	109	56141	54.63 ug/ml#	85
52) Dibenzofuran	5.346	168	428364	54.25 ug/ml	97
53) 2,4-Dinitrotoluene	5.323	165	101873	53.65 ug/ml	91
54) DIETHYL PHTHALATE	5.469	149	339287	53.11 ug/ml	99
55) 4-Chlorophenyl phenyl ...	5.549	204	174012	53.73 ug/ml	99
56) Flourene	5.559	166	355450	54.05 ug/ml	95
57) 4-Nitroaniline	5.562	138	85750	55.24 ug/ml	97
59) 4,6-Dinitro-2-Methylph...	5.575	198	51147	49.73 ug/ml	86
60) N-Nitrosodiphenylamine	5.621	169	234169	45.87 ug/ml	99
61) 1,2-Diphenylhydrazine	5.650	77	343169	53.33 ug/ml	97
62) 4-Bromophenyl phenyl e...	5.858	248	101940	54.02 ug/ml	99
63) Hexachlorobenzene	5.899	284	118009	54.57 ug/ml	99
64) Pentachlorophenol	6.018	266	88078	55.71 ug/ml	99
65) Pentachloronitrobenzene	6.025	295	20797	55.41 ug/ml	94
66) Phenanthrene	6.167	178	510412	54.21 ug/ml	99
67) Anthracene	6.201	178	516568	54.43 ug/ml	100
68) Carbazole	6.296	167	496055	54.90 ug/ml	99
69) Di-N-Butyl Phthalate	6.517	149	583276	54.41 ug/ml	100
70) Flouranthene	7.053	202	628379	56.57 ug/ml	98
73) Benzidine	7.156	184	135857	38.21 ug/ml	98
74) Pyrene	7.264	202	667233	53.35 ug/ml	99
75) Butylbenzyl phthalate	7.946	149	295512	54.35 ug/ml	97
76) 3,3'-Dichlorobenzidine	8.675	252	238596	54.75 ug/ml	99
77) Benzo(a)anthracene	8.711	228	679518	54.64 ug/ml	99
78) Chrysene	8.768	228	632048	54.54 ug/ml	100
79) Bis(2-ethylhexyl)phtha...	8.783	149	373913	54.90 ug/ml	99
81) Di-n-octylphthalate	9.975	149	670041	53.78 ug/ml	99
82) Benzo(b)fluoranthene	10.593	252	700110	55.32 ug/ml	99
83) Benzo(k)fluoranthene	10.650	252	610300	55.10 ug/ml	98
84) Benzo(a)pyrene	11.232	252	608033	55.23 ug/ml	99
85) Indeno(1,2,3-cd)pyrene	13.230	276	504900	55.99 ug/ml	99
86) Dibenz(a,h)anthracene	13.284	278	497362	56.76 ug/ml	100
87) Benzo(g,h,i)perylene	13.642	276	473368	55.66 ug/ml	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\D021524\
Data File : D24S046014.D
Acq On : 15 Feb 2024 3:19 pm
Operator : BGL
Sample : 8270std 50 ppm 24A0087 Inst : GCMSSV4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 16 07:38:43 2024
Quant Method : C:\msdchem\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Fri Feb 16 07:37:49 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D021524\
Data File : D24S046015.D
Acq On : 15 Feb 2024 3:40 pm
Operator : BGL
Sample : 8270std 80 ppm 24A0088 Inst : GCMSSV4
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 16 07:43:58 2024
Quant Method : C:\msdchem\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Fri Feb 16 07:42:23 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-D4	3.405	152	87366	40.00	ug/ml	0.00
19) NAPHTHALENE-d8	4.144	136	313007	40.00	ug/ml	0.00
35) ACENAPHTHENE-D10	5.220	164	183496	40.00	ug/ml	0.00
58) PHENANTHRENE-D10	6.152	188	337449	40.00	ug/ml	0.00
71) CHRYSENE-D12	8.732	240	332733	40.00	ug/ml	0.00
80) PERYLENE-D12	11.350	264	344292	40.00	ug/ml	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	2.717	112	370685	174.16	ug/ml	0.00
Spiked Amount 200.000	Range 30 - 130		Recovery = 87.08%			
3) Phenol-d6	3.173	99	577468	171.06	ug/ml	0.00
Spiked Amount 200.000	Range 30 - 130		Recovery = 85.53%			
20) Nitrobenzene-d5	3.716	82	246269	84.93	ug/ml	0.00
Spiked Amount 100.000	Range 30 - 130		Recovery = 84.93%			
36) 2-Fluorobiphenyl	4.792	172	469628	83.42	ug/ml	0.00
Spiked Amount 100.000	Range 30 - 130		Recovery = 83.42%			
37) 2,4,6-Tribromophenol	5.709	330	163271	170.70	ug/ml	0.00
Spiked Amount 200.000	Range 30 - 130		Recovery = 85.35%			
72) Terphenyl-d14	7.401	244	568192	84.63	ug/ml	0.00
Spiked Amount 100.000	Range 30 - 130		Recovery = 84.63%			
Target Compounds						Qvalue
4) N-Nitrosodimethylamine	2.102	42	157325	87.29	ug/ml	98
5) Pyridine	2.130	79	274108	88.65	ug/ml	99
6) Aniline	3.222	66	124070	77.64	ug/ml	98
7) Phenol	3.181	94	327502	86.42	ug/ml	100
8) Bis(2-chloroethyl)ether	3.245	63	165238	83.68	ug/ml	100
9) 2-Chlorophenol	3.289	128	250711	84.97	ug/ml	100
10) 1,3-Dichlorobenzene	3.376	146	282938	83.54	ug/ml	100
11) 1,4-Dichlorobenzene	3.415	146	283265	83.50	ug/ml	99
12) 1,2-Dichlorobenzene	3.502	146	260494	82.51	ug/ml	100
13) 2- METHYLPHENOL	3.515	108	217105	84.59	ug/ml	98
14) Bis(2-Chloroisopropyl)...	3.538	45	214305	81.99	ug/ml	99
15) Acetophenone	3.623	105	333017	82.35	ug/ml	99
16) 3/4- METHYLPHENOL	3.605	107	491210	168.98	ug/ml	99
17) N-Nitroso-Di-N-Propyla...	3.621	70	177091	82.23	ug/ml	99
18) Hexachloroethane	3.696	117	104545	82.26	ug/ml	100
21) NITROBENZENE	3.726	77	267287	83.65	ug/ml	99
22) Isophorone	3.863	82	443505	83.13	ug/ml	100
23) 2-Nitrophenol	3.909	139	127564	87.79	ug/ml	99
24) 2,4-Dimethylphenol	3.914	122	220885	83.88	ug/ml	99
25) Bis(2-Chloroethoxy)met...	3.976	93	248585	82.82	ug/ml	97
26) Benzoic Acid	3.966	122	146132	88.39	ug/ml	95
27) 2,4-Dichlorophenol	4.048	162	219670	84.72	ug/ml	99
28) 1,2,4-Trichlorobenzene	4.102	180	240069	83.87	ug/ml	99
29) Naphthalene	4.156	128	655143	84.08	ug/ml	99
30) 4-Chloroaniline	4.177	127	256894	80.55	ug/ml	99
31) Hexachlorobutadiene	4.221	225	136909	83.45	ug/ml	100
32) 4-Chloro-3-Methylphenol	4.455	107	212687	84.38	ug/ml	99
33) 2-MethylNaphthalene	4.574	142	450282	84.29	ug/ml	99
34) 1-Methylnaphthalene	4.635	142	414875	84.45	ug/ml	100
38) Hexachlorocyclopentadiene	4.664	237	158271	87.77	ug/ml	100
39) 1,2,4,5-Tetrachloroben...	4.674	216	254527	84.99	ug/ml	99
40) 2,4,6-Trichlorophenol	4.738	196	166097	85.14	ug/ml	100
41) 2,4,5-Trichlorophenol	4.761	196	170224	84.22	ug/ml	100
42) 2-ChloroNaphthalene	4.877	162	545963	84.79	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D021524\
Data File : D24S046015.D
Acq On : 15 Feb 2024 3:40 pm
Operator : BGL
Sample : 8270std 80 ppm 24A0088 Inst : GCMSSV4
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 16 07:43:58 2024
Quant Method : C:\msdchem\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Fri Feb 16 07:42:23 2024
Response via : Initial Calibration

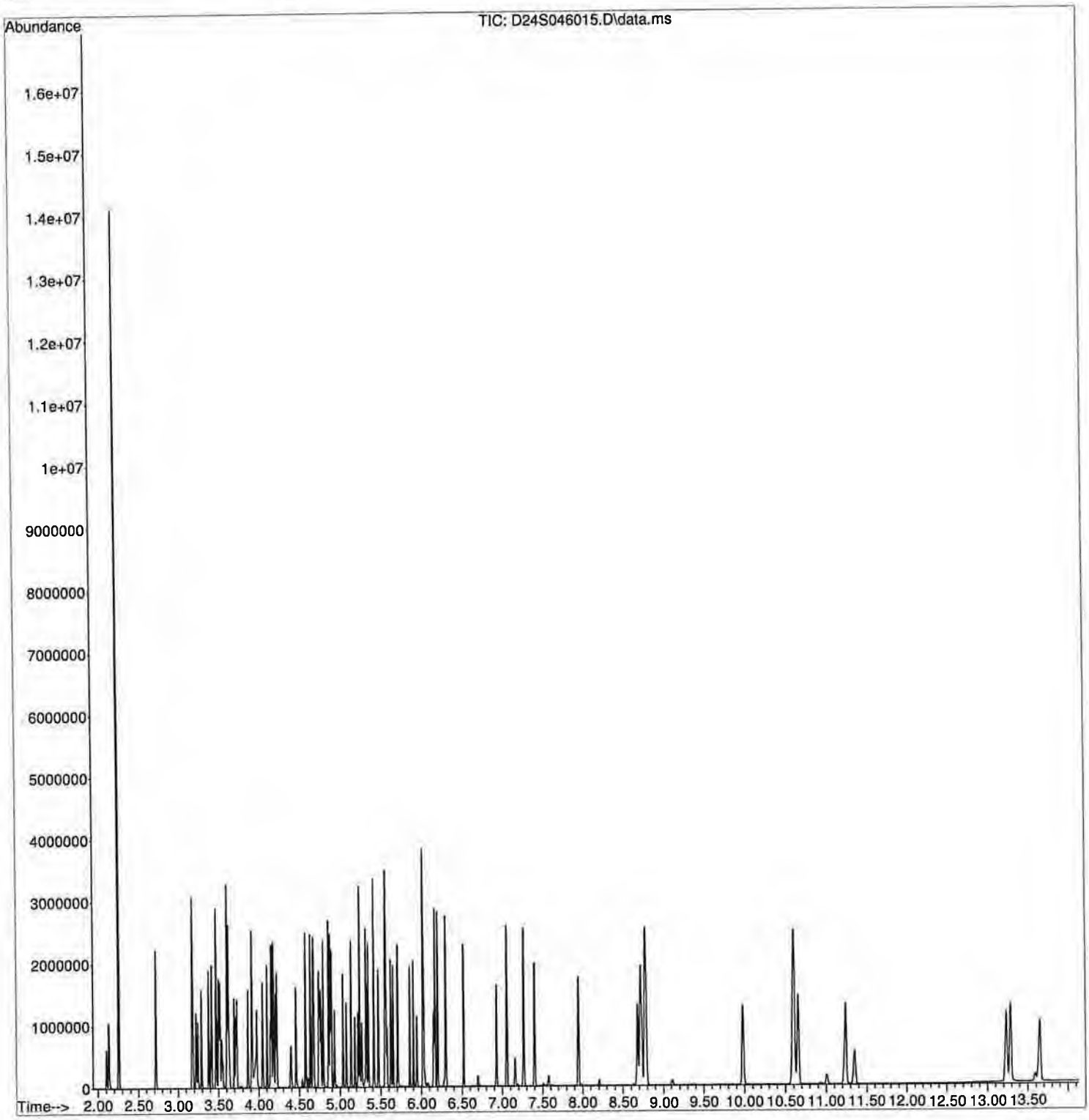
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) 2-Nitroaniline	4.929	65	133364	85.92 ug/ml	100
44) 1,1-Biphenyl	4.857	154	526895	83.40 ug/ml	100
45) DIMETHYL PHTHALATE	5.034	163	504628	83.80 ug/ml	100
46) 2,6-DinitroToluene	5.076	165	111657	89.15 ug/ml	99
47) Acenaphthylene	5.135	152	694990	83.86 ug/ml	100
48) 3-Nitroaniline	5.184	138	111623	84.98 ug/ml	99
49) Acenaphthene	5.240	154	438052	85.71 ug/ml	99
50) 2,4-Dinitrophenol	5.246	184	58476	82.25 ug/ml#	80
51) 4-Nitrophenol	5.266	109	83841	88.34 ug/ml	99
52) Dibenzofuran	5.346	168	608298	83.43 ug/ml	100
53) 2,4-Dinitrotoluene	5.325	165	153256	87.40 ug/ml	99
54) DIETHYL PHTHALATE	5.470	149	490203	83.09 ug/ml	100
55) 4-Chlorophenyl phenyl ...	5.552	204	251398	84.07 ug/ml	100
56) Flourene	5.560	166	512338	84.37 ug/ml	100
57) 4-Nitroaniline	5.565	138	127315	88.81 ug/ml	98
59) 4,6-Dinitro-2-Methylph...	5.578	198	81687	80.22 ug/ml	99
60) N-Nitrosodiphenylamine	5.624	169	337966	70.79 ug/ml	100
61) 1,2-Diphenylhydrazine	5.652	77	491871	81.73 ug/ml	99
62) 4-Bromophenyl phenyl e...	5.858	248	148113	83.92 ug/ml	99
63) Hexachlorobenzene	5.902	284	178203	88.10 ug/ml	98
64) Pentachlorophenol	6.021	266	133830	90.50 ug/ml	100
65) Pentachloronitrobenzene	6.028	295	31193	88.85 ug/ml	98
66) Phenanthrene	6.167	178	739841	84.01 ug/ml	100
67) Anthracene	6.201	178	749035	84.39 ug/ml	100
68) Carbazole	6.299	167	722453	85.49 ug/ml	100
69) Di-N-Butyl Phthalate	6.517	149	867422	86.52 ug/ml	100
70) Flouranthene	7.053	202	932315	89.74 ug/ml	100
73) Benzidine	7.156	184	157796	47.34 ug/ml	100
74) Pyrene	7.267	202	980329	83.60 ug/ml	100
75) Butylbenzyl phthalate	7.949	149	441120	86.53 ug/ml	99
76) 3,3'-Dichlorobenzidine	8.678	252	346153	84.72 ug/ml	100
77) Benzo(a)anthracene	8.716	228	996087	85.43 ug/ml	98
78) Chrysene	8.773	228	931136	85.69 ug/ml	100
79) Bis(2-ethylhexyl)phtha...	8.786	149	553432	86.67 ug/ml	100
81) Di-n-octylphthalate	9.978	149	1009164	87.13 ug/ml	100
82) Benzo(b)fluoranthene	10.604	252	1027421	87.34 ug/ml	100
83) Benzo(k)fluoranthene	10.658	252	887419	86.19 ug/ml	100
84) Benzo(a)pyrene	11.240	252	894811	87.44 ug/ml	100
85) Indeno(1,2,3-cd)pyrene	13.235	276	743767	88.73 ug/ml	100
86) Dibenz(a,h)anthracene	13.289	278	731007	89.75 ug/ml	100
87) Benzo(g,h,i)perylene	13.650	276	691731	87.49 ug/ml	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D021524\
Data File : D24S046015.D
Acq On : 15 Feb 2024 3:40 pm
Operator : BGL
Sample : 8270std 80 ppm 24A0088 Inst : GCMSSV4
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 16 07:43:58 2024
Quant Method : C:\msdchem\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Fri Feb 16 07:42:23 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D021524\
Data File : D24S046016.D
Acq On : 15 Feb 2024 4:01 pm
Operator : BGL
Sample : 8270std 100 ppm 24A0089 Inst : GCMSSV4
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 16 08:15:48 2024
Quant Method : C:\msdchem\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Fri Feb 16 07:44:52 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-D4	3.405	152	91040	40.00	ug/ml	0.00
19) NAPHTHALENE-d8	4.143	136	322996	40.00	ug/ml	0.00
35) ACENAPHTHENE-D10	5.220	164	192598	40.00	ug/ml	0.00
58) PHENANTHRENE-D10	6.152	188	358250	40.00	ug/ml	0.00
71) CHRYSENE-D12	8.732	240	348540	40.00	ug/ml	0.00
80) PERYLENE-D12	11.350	264	353645	40.00	ug/ml	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	2.717	112	438276	197.61	ug/ml	0.00
Spiked Amount 200.000	Range 30 - 130		Recovery = 98.81%			
3) Phenol-d6	3.175	99	688637	195.76	ug/ml	0.00
Spiked Amount 200.000	Range 30 - 130		Recovery = 97.88%			
20) Nitrobenzene-d5	3.716	82	290294	97.02	ug/ml	0.00
Spiked Amount 100.000	Range 30 - 130		Recovery = 97.02%			
36) 2-Fluorobiphenyl	4.792	172	563595	95.38	ug/ml	0.00
Spiked Amount 100.000	Range 30 - 130		Recovery = 95.38%			
37) 2,4,6-Tribromophenol	5.709	330	203803	203.01	ug/ml	0.00
Spiked Amount 200.000	Range 30 - 130		Recovery = 101.51%			
72) Terphenyl-d14	7.398	244	684029	97.26	ug/ml	0.00
Spiked Amount 100.000	Range 30 - 130		Recovery = 97.26%			
Target Compounds						Qvalue
4) N-Nitrosodimethylamine	2.104	42	188721	100.48	ug/ml	99
5) Pyridine	2.133	79	338237	104.97	ug/ml	99
6) Aniline	3.224	66	151981	91.27	ug/ml	95
7) Phenol	3.183	94	386938	97.98	ug/ml	99
8) Bis(2-chloroethyl)ether	3.245	63	194976	94.76	ug/ml	100
9) 2-Chlorophenol	3.289	128	296955	96.58	ug/ml	99
10) 1,3-Dichlorobenzene	3.376	146	334854	94.88	ug/ml	100
11) 1,4-Dichlorobenzene	3.415	146	334178	94.53	ug/ml	100
12) 1,2-Dichlorobenzene	3.502	146	308416	93.75	ug/ml	100
13) 2- METHYLPHENOL	3.518	108	256061	95.74	ug/ml	97
14) Bis(2-Chloroisopropyl)...	3.538	45	252193	92.60	ug/ml	93
15) Acetophenone	3.626	105	392992	93.26	ug/ml	97
16) 3/4- METHYLPHENOL	3.605	107	577196	190.54	ug/ml	98
17) N-Nitroso-Di-N-Propyla...	3.623	70	208876	93.07	ug/ml	99
18) Hexachloroethane	3.695	117	124219	93.80	ug/ml	99
21) NITROBENZENE	3.726	77	314728	95.45	ug/ml	100
22) Isophorone	3.863	82	526113	95.57	ug/ml	100
23) 2-Nitrophenol	3.909	139	154767	103.22	ug/ml	100
24) 2,4-Dimethylphenol	3.914	122	257369	94.71	ug/ml	99
25) Bis(2-Chloroethoxy)met...	3.976	93	296354	95.68	ug/ml	97
26) Benzoic Acid	3.971	122	180343	105.71	ug/ml	93
27) 2,4-Dichlorophenol	4.048	162	259783	97.09	ug/ml	99
28) 1,2,4-Trichlorobenzene	4.102	180	283245	95.90	ug/ml	99
29) Naphthalene	4.156	128	771209	95.91	ug/ml	99
30) 4-Chloroaniline	4.180	127	301168	91.51	ug/ml	99
31) Hexachlorobutadiene	4.221	225	163677	96.68	ug/ml	100
32) 4-Chloro-3-Methylphenol	4.458	107	256514	98.62	ug/ml	100
33) 2-MethylNaphthalene	4.573	142	539120	97.80	ug/ml	99
34) 1-Methylnaphthalene	4.635	142	492954	97.24	ug/ml	100
38) Hexachlorocyclopentadiene	4.664	237	187776	99.21	ug/ml	100
39) 1,2,4,5-Tetrachloroben...	4.674	216	303194	96.46	ug/ml	99
40) 2,4,6-Trichlorophenol	4.738	196	198874	97.12	ug/ml	100
41) 2,4,5-Trichlorophenol	4.764	196	205055	96.66	ug/ml	99
42) 2-ChloroNaphthalene	4.877	162	645761	95.55	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D021524\
Data File : D24S046016.D
Acq On : 15 Feb 2024 4:01 pm
Operator : BGL
Sample : 8270std 100 ppm 24A0089 Inst : GCMSSV4
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 16 08:15:48 2024
Quant Method : C:\msdchem\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Fri Feb 16 07:44:52 2024
Response via : Initial Calibration

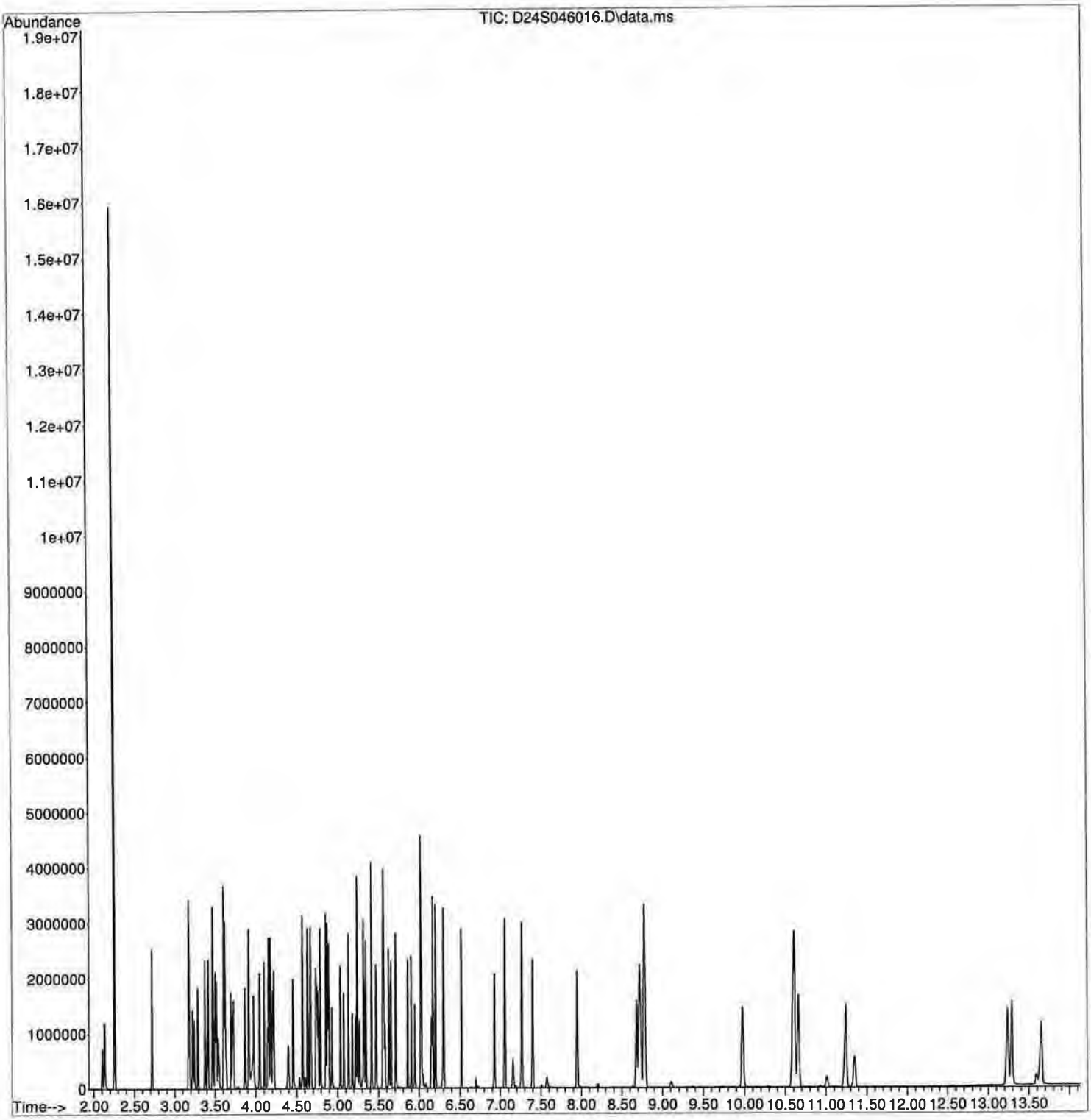
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) 2-Nitroaniline	4.929	65	159874	98.13 ug/ml	99
44) 1,1-Biphenyl	4.857	154	628047	94.71 ug/ml	99
45) DIMETHYL PHTHALATE	5.034	163	603015	95.40 ug/ml	100
46) 2,6-DinitroToluene	5.076	165	136329	103.71 ug/ml	97
47) Acenaphthylene	5.135	152	831885	95.64 ug/ml	100
48) 3-Nitroaniline	5.184	138	134598	97.63 ug/ml	98
49) Acenaphthene	5.240	154	522605	97.42 ug/ml	99
50) 2,4-Dinitrophenol	5.245	184	74658	98.70 ug/ml#	69
51) 4-Nitrophenol	5.269	109	99884	100.27 ug/ml	99
52) Dibenzofuran	5.348	168	727552	95.07 ug/ml	100
53) 2,4-Dinitrotoluene	5.325	165	186807	101.49 ug/ml	99
54) DIETHYL PHTHALATE	5.469	149	592090	95.62 ug/ml	100
55) 4-Chlorophenyl phenyl ...	5.552	204	305665	97.38 ug/ml	99
56) Flourene	5.560	166	609222	95.58 ug/ml	99
57) 4-Nitroaniline	5.565	138	152268	101.20 ug/ml	98
59) 4,6-Dinitro-2-Methylph...	5.580	198	102164	93.32 ug/ml	98
60) N-Nitrosodiphenylamine	5.624	169	402654	79.44 ug/ml	100
61) 1,2-Diphenylhydrazine	5.652	77	584562	91.49 ug/ml	99
62) 4-Bromophenyl phenyl e...	5.858	248	184608	98.53 ug/ml	98
63) Hexachlorobenzene	5.902	284	214723	99.99 ug/ml	98
64) Pentachlorophenol	6.020	266	164285	104.64 ug/ml	99
65) Pentachloronitrobenzene	6.028	295	38526	103.37 ug/ml	95
66) Phenanthrene	6.167	178	890444	95.24 ug/ml	99
67) Anthracene	6.201	178	901864	95.71 ug/ml	100
68) Carbazole	6.299	167	862810	96.17 ug/ml	99
69) Di-N-Butyl Phthalate	6.517	149	1054396	99.06 ug/ml	100
70) Flouranthene	7.056	202	1107761	100.44 ug/ml	99
73) Benzidine	7.156	184	177278	50.77 ug/ml	100
74) Pyrene	7.267	202	1177785	95.88 ug/ml	100
75) Butylbenzyl phthalate	7.949	149	531065	99.45 ug/ml	100
76) 3,3'-Dichlorobenzidine	8.680	252	408663	95.48 ug/ml	100
77) Benzo(a)anthracene	8.716	228	1182829	96.84 ug/ml	98
78) Chrysene	8.775	228	1103560	96.95 ug/ml	100
79) Bis(2-ethylhexyl)phtha...	8.786	149	661901	98.96 ug/ml	99
81) Di-n-octylphthalate	9.978	149	1196354	100.56 ug/ml	100
82) Benzo(b)fluoranthene	10.604	252	1235120	102.22 ug/ml	99
83) Benzo(k)fluoranthene	10.660	252	1042274	98.55 ug/ml	100
84) Benzo(a)pyrene	11.242	252	1057894	100.64 ug/ml	100
85) Indeno(1,2,3-cd)pyrene	13.238	276	884856	102.78 ug/ml	100
86) Dibenz(a,h)anthracene	13.292	278	863125	103.17 ug/ml	99
87) Benzo(g,h,i)perylene	13.655	276	816456	100.54 ug/ml	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D021524\
Data File : D24S046016.D
Acq On : 15 Feb 2024 4:01 pm
Operator : BGL
Sample : 8270std 100 ppm 24A0089 Inst : GCMSSV4
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 16 08:15:48 2024
Quant Method : C:\msdchem\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Fri Feb 16 07:44:52 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D021524\
Data File : D24S046017.D
Acq On : 15 Feb 2024 4:23 pm
Operator : BGL
Sample : 8270std 120ppm 24A0090 Inst : GCMSSV4
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 16 08:32:09 2024
Quant Method : C:\msdchem\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Fri Feb 16 08:18:02 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-D4	3.407	152	83197	40.00	ug/ml	# 0.00
19) NAPHTHALENE-d8	4.144	136	285284	40.00	ug/ml	0.00
35) ACENAPHTHENE-D10	5.220	164	171176	40.00	ug/ml	0.00
58) PHENANTHRENE-D10	6.152	188	323370	40.00	ug/ml	0.00
71) CHRYSENE-D12	8.734	240	312622	40.00	ug/ml	0.00
80) PERYLENE-D12	11.350	264	311776	40.00	ug/ml	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	2.720	112	525702	259.37	ug/ml	0.00
Spiked Amount 200.000	Range 30 - 130		Recovery = 129.69%			
3) Phenol-d6	3.175	99	813238	252.97	ug/ml	0.00
Spiked Amount 200.000	Range 30 - 130		Recovery = 126.49%			
20) Nitrobenzene-d5	3.716	82	342302	129.52	ug/ml	0.00
Spiked Amount 100.000	Range 30 - 130		Recovery = 129.52%			
36) 2-Fluorobiphenyl	4.792	172	652255	124.20	ug/ml	0.00
Spiked Amount 100.000	Range 30 - 130		Recovery = 124.20%			
37) 2,4,6-Tribromophenol	5.712	330	252449	282.93	ug/ml	0.00
Spiked Amount 200.000	Range 30 - 130		Recovery = 141.47%#			
72) Terphenyl-d14	7.401	244	830378	131.63	ug/ml	0.00
Spiked Amount 100.000	Range 30 - 130		Recovery = 131.63%#			
Target Compounds						Qvalue
4) N-Nitrosodimethylamine	2.104	42	235697	137.32	ug/ml	99
5) Pyridine	2.133	79	413401	140.39	ug/ml	99
6) Aniline	3.224	66	172264	113.20	ug/ml	99
7) Phenol	3.183	94	456082	126.38	ug/ml	99
8) Bis(2-chloroethyl)ether	3.248	63	231557	123.14	ug/ml	97
9) 2-Chlorophenol	3.291	128	350699	124.81	ug/ml	100
10) 1,3-Dichlorobenzene	3.376	146	407173	126.25	ug/ml	100
11) 1,4-Dichlorobenzene	3.415	146	407146	126.03	ug/ml	99
12) 1,2-Dichlorobenzene	3.502	146	370945	123.39	ug/ml	99
13) 2- METHYLPHENOL	3.518	108	289120	118.29	ug/ml	100
14) Bis(2-Chloroisopropyl)...	3.538	45	293755	118.02	ug/ml	99
15) Acetophenone	3.626	105	459733	119.38	ug/ml	97
16) 3/4- METHYLPHENOL	3.608	107	681604 VV	246.22	ug/ml	99
17) N-Nitroso-Di-N-Propyla...	3.626	70	243484	118.72	ug/ml	99
18) Hexachloroethane	3.696	117	150983	124.76	ug/ml	99
21) NITROBENZENE	3.729	77	368355	126.48	ug/ml	99
22) Isophorone	3.865	82	617619	127.02	ug/ml	100
23) 2-Nitrophenol	3.912	139	183710	138.71	ug/ml	99
24) 2,4-Dimethylphenol	3.917	122	305610	127.33	ug/ml	100
25) Bis(2-Chloroethoxy)met...	3.976	93	346341	126.60	ug/ml	97
26) Benzoic Acid	3.976	122	213078	141.41	ug/ml	94
27) 2,4-Dichlorophenol	4.048	162	306765	129.80	ug/ml	99
28) 1,2,4-Trichlorobenzene	4.105	180	335812	128.72	ug/ml	99
29) Naphthalene	4.156	128	903401	127.21	ug/ml	99
30) 4-Chloroaniline	4.180	127	356836	122.76	ug/ml	100
31) Hexachlorobutadiene	4.221	225	194159	129.85	ug/ml	100
32) 4-Chloro-3-Methylphenol	4.458	107	301738	131.34	ug/ml	99
33) 2-MethylNaphthalene	4.574	142	639214	131.29	ug/ml	100
34) 1-Methylnaphthalene	4.635	142	579455	129.41	ug/ml	100
38) Hexachlorocyclopentadiene	4.666	237	226645	134.74	ug/ml	100
39) 1,2,4,5-Tetrachloroben...	4.674	216	357071	127.81	ug/ml	98
40) 2,4,6-Trichlorophenol	4.738	196	238984	131.32	ug/ml	100
41) 2,4,5-Trichlorophenol	4.767	196	240591	127.60	ug/ml	99
42) 2-ChloroNaphthalene	4.877	162	742544	123.62	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D021524\
Data File : D24S046017.D
Acq On : 15 Feb 2024 4:23 pm
Operator : BGL
Sample : 8270std 120ppm 24A0090 Inst : GCMSSV4
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 16 08:32:09 2024
Quant Method : C:\msdchem\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Fri Feb 16 08:18:02 2024
Response via : Initial Calibration

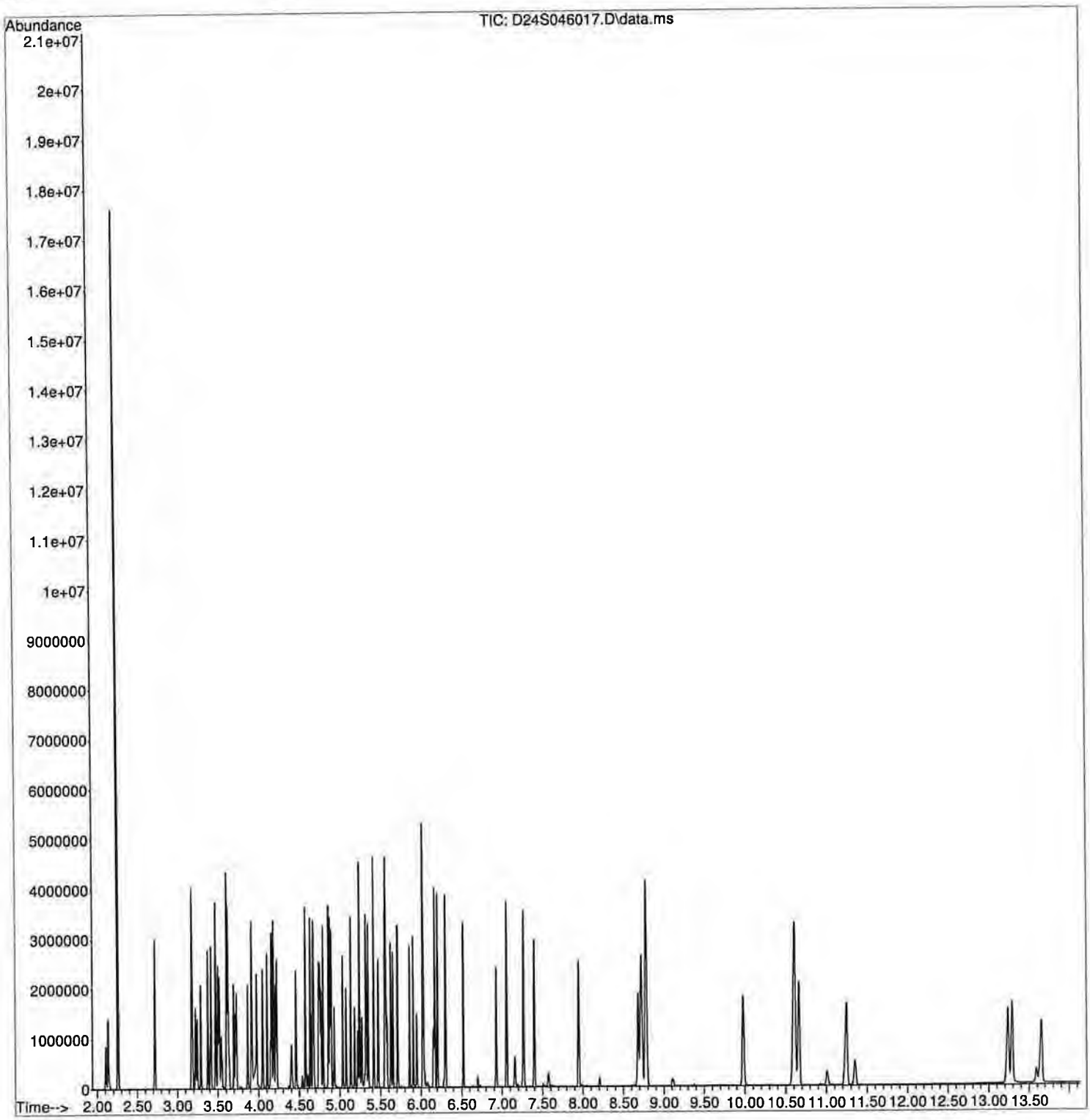
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) 2-Nitroaniline	4.931	65	190720	131.71 ug/ml	99
44) 1,1-Biphenyl	4.859	154	744075	126.25 ug/ml	100
45) DIMETHYL PHTHALATE	5.034	163	715678	127.40 ug/ml	99
46) 2,6-DinitroToluene	5.076	165	162538	139.12 ug/ml	97
47) Acenaphthylene	5.135	152	983671	127.24 ug/ml	100
48) 3-Nitroaniline	5.184	138	157750	128.74 ug/ml	98
49) Acenaphthene	5.240	154	627132	131.54 ug/ml	98
50) 2,4-Dinitrophenol	5.246	184	94793	138.33 ug/ml#	60
51) 4-Nitrophenol	5.269	109	120521	136.13 ug/ml	99
52) Dibenzofuran	5.349	168	851649	125.21 ug/ml	100
53) 2,4-Dinitrotoluene	5.328	165	227231	138.91 ug/ml	96
54) DIETHYL PHTHALATE	5.472	149	704770	128.06 ug/ml	100
55) 4-Chlorophenyl phenyl ...	5.552	204	361950	129.75 ug/ml	99
56) Flourene	5.562	166	724755	127.94 ug/ml	99
57) 4-Nitroaniline	5.570	138	181234	135.52 ug/ml	98
59) 4,6-Dinitro-2-Methylph...	5.583	198	126412	125.47 ug/ml	97
60) N-Nitrosodiphenylamine	5.624	169	481293	105.19 ug/ml	100
61) 1,2-Diphenylhydrazine	5.652	77	689317	119.52 ug/ml	100
62) 4-Bromophenyl phenyl e...	5.858	248	221714	131.09 ug/ml	98
63) Hexachlorobenzene	5.902	284	262930	135.65 ug/ml	97
64) Pentachlorophenol	6.021	266	201655	142.30 ug/ml	99
65) Pentachloronitrobenzene	6.031	295	46837	139.22 ug/ml	95
66) Phenanthrene	6.167	178	1076266	127.53 ug/ml	99
67) Anthracene	6.203	178	1085202	127.59 ug/ml	100
68) Carbazole	6.301	167	1048566	129.48 ug/ml	99
69) Di-N-Butyl Phthalate	6.520	149	1269412	132.13 ug/ml	100
70) Flouranthene	7.056	202	1348400	135.45 ug/ml	99
73) Benzidine	7.159	184	218820	69.87 ug/ml	100
74) Pyrene	7.269	202	1413973	128.33 ug/ml	99
75) Butylbenzyl phthalate	7.949	149	641752	133.99 ug/ml	99
76) 3,3'-Dichlorobenzidine	8.683	252	494149	128.72 ug/ml	100
77) Benzo(a)anthracene	8.719	228	1420408	129.66 ug/ml	98
78) Chrysene	8.778	228	1323168	129.60 ug/ml	100
79) Bis(2-ethylhexyl)phtha...	8.788	149	801142	133.54 ug/ml	99
81) Di-n-octylphthalate	9.981	149	1445389	137.80 ug/ml	100
82) Benzo(b)fluoranthene	10.609	252	1490692	139.94 ug/ml	100
83) Benzo(k)fluoranthene	10.665	252	1251802	134.26 ug/ml	99
84) Benzo(a)pyrene	11.245	252	1255309	135.46 ug/ml	100
85) Indeno(1,2,3-cd)pyrene	13.240	276	1026988	135.30 ug/ml	100
86) Dibenz(a,h)anthracene	13.292	278	1004228	136.15 ug/ml	99
87) Benzo(g,h,i)perylene	13.655	276	943229	131.74 ug/ml	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D021524\
Data File : D24S046017.D
Acq On : 15 Feb 2024 4:23 pm
Operator : BGL
Sample : 8270std 120ppm 24A0090 Inst : GCMSSV4
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 16 08:32:09 2024
Quant Method : C:\msdchem\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Fri Feb 16 08:18:02 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D021524\
Data File : D24S046018.D
Acq On : 15 Feb 2024 4:44 pm
Operator : BGL
Sample : 8270std 160 ppm 24A0066 Inst : GCMSSV4
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 16 08:34:43 2024
Quant Method : C:\msdchem\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Fri Feb 16 08:33:53 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-D4	3.407	152	95050	40.00	ug/ml	# 0.00
19) NAPHTHALENE-d8	4.143	136	334904	40.00	ug/ml	0.00
35) ACENAPHTHENE-D10	5.220	164	201403	40.00	ug/ml	0.00
58) PHENANTHRENE-D10	6.154	188	389029	40.00	ug/ml	0.00
71) CHRYSENE-D12	8.737	240	377029	40.00	ug/ml	0.00
80) PERYLENE-D12	11.355	264	372677	40.00	ug/ml	0.01
System Monitoring Compounds						
2) 2-Fluorophenol	2.720	112	761417	328.82	ug/ml	0.00
Spiked Amount 200.000	Range 30 - 130		Recovery = 164.41%#			
3) Phenol-d6	3.178	99	1170150	318.61	ug/ml	0.00
Spiked Amount 200.000	Range 30 - 130		Recovery = 159.31%#			
20) Nitrobenzene-d5	3.719	82	484504	156.17	ug/ml	0.00
Spiked Amount 100.000	Range 30 - 130		Recovery = 156.17%#			
36) 2-Fluorobiphenyl	4.792	172	938945	151.96	ug/ml	0.00
Spiked Amount 100.000	Range 30 - 130		Recovery = 151.96%#			
37) 2,4,6-Tribromophenol	5.714	330	401829	382.76	ug/ml	0.00
Spiked Amount 200.000	Range 30 - 130		Recovery = 191.38%#			
72) Terphenyl-d14	7.403	244	1245432	163.70	ug/ml	0.00
Spiked Amount 100.000	Range 30 - 130		Recovery = 163.70%#			
Target Compounds						Qvalue
4) N-Nitrosodimethylamine	2.107	42	327886	167.21	ug/ml	99
5) Pyridine	2.135	79	587310	174.58	ug/ml	100
6) Aniline	3.224	66	242382	139.41	ug/ml	96
7) Phenol	3.186	94	654808	158.82	ug/ml	99
8) Bis(2-chloroethyl)ether	3.247	63	321781	149.78	ug/ml	100
9) 2-Chlorophenol	3.291	128	506455	157.77	ug/ml	98
10) 1,3-Dichlorobenzene	3.376	146	571496	155.10	ug/ml	100
11) 1,4-Dichlorobenzene	3.417	146	567782	153.84	ug/ml	99
12) 1,2-Dichlorobenzene	3.502	146	521860	151.94	ug/ml	100
13) 2- METHYLPHENOL	3.520	108	419149	150.10	ug/ml	97
14) Bis(2-Chloroisopropyl)...	3.541	45	400900	140.98	ug/ml	98
15) Acetophenone	3.628	105	650276	147.81	ug/ml	96
16) 3/4- METHYLPHENOL	3.613	107	964262	304.89	ug/ml	99
17) N-Nitroso-Di-N-Propyla...	3.631	70	338585	144.50	ug/ml	97
18) Hexachloroethane	3.698	117	213127	154.15	ug/ml	98
21) NITROBENZENE	3.731	77	518669	151.70	ug/ml	99
22) Isophorone	3.868	82	877077	153.65	ug/ml	100
23) 2-Nitrophenol	3.912	139	269549	173.37	ug/ml	97
24) 2,4-Dimethylphenol	3.917	122	428329	152.02	ug/ml	98
25) Bis(2-Chloroethoxy)met...	3.979	93	492807	153.45	ug/ml	97
26) Benzoic Acid	3.989	122	311156	175.91	ug/ml	92
27) 2,4-Dichlorophenol	4.051	162	445331	160.51	ug/ml	99
28) 1,2,4-Trichlorobenzene	4.105	180	488671	159.56	ug/ml	99
29) Naphthalene	4.159	128	1294850	155.31	ug/ml	99
30) 4-Chloroaniline	4.182	127	494357	144.87	ug/ml	99
31) Hexachlorobutadiene	4.221	225	280323	159.70	ug/ml	99
32) 4-Chloro-3-Methylphenol	4.460	107	435771	161.58	ug/ml	99
33) 2-MethylNaphthalene	4.573	142	929261	162.58	ug/ml	99
34) 1-Methylnaphthalene	4.638	142	837184	159.27	ug/ml	100
38) Hexachlorocyclopentadiene	4.666	237	339274	171.42	ug/ml	99
39) 1,2,4,5-Tetrachloroben...	4.674	216	524351	159.52	ug/ml	98
40) 2,4,6-Trichlorophenol	4.738	196	348379	162.70	ug/ml	100
41) 2,4,5-Trichlorophenol	4.769	196	351907	158.63	ug/ml	100
42) 2-ChloroNaphthalene	4.880	162	1124663	159.14	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D021524\
Data File : D24S046018.D
Acq On : 15 Feb 2024 4:44 pm
Operator : BGL
Sample : 8270std 160 ppm 24A0066 Inst : GCMSSV4
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 16 08:34:43 2024
Quant Method : C:\msdchem\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Fri Feb 16 08:33:53 2024
Response via : Initial Calibration

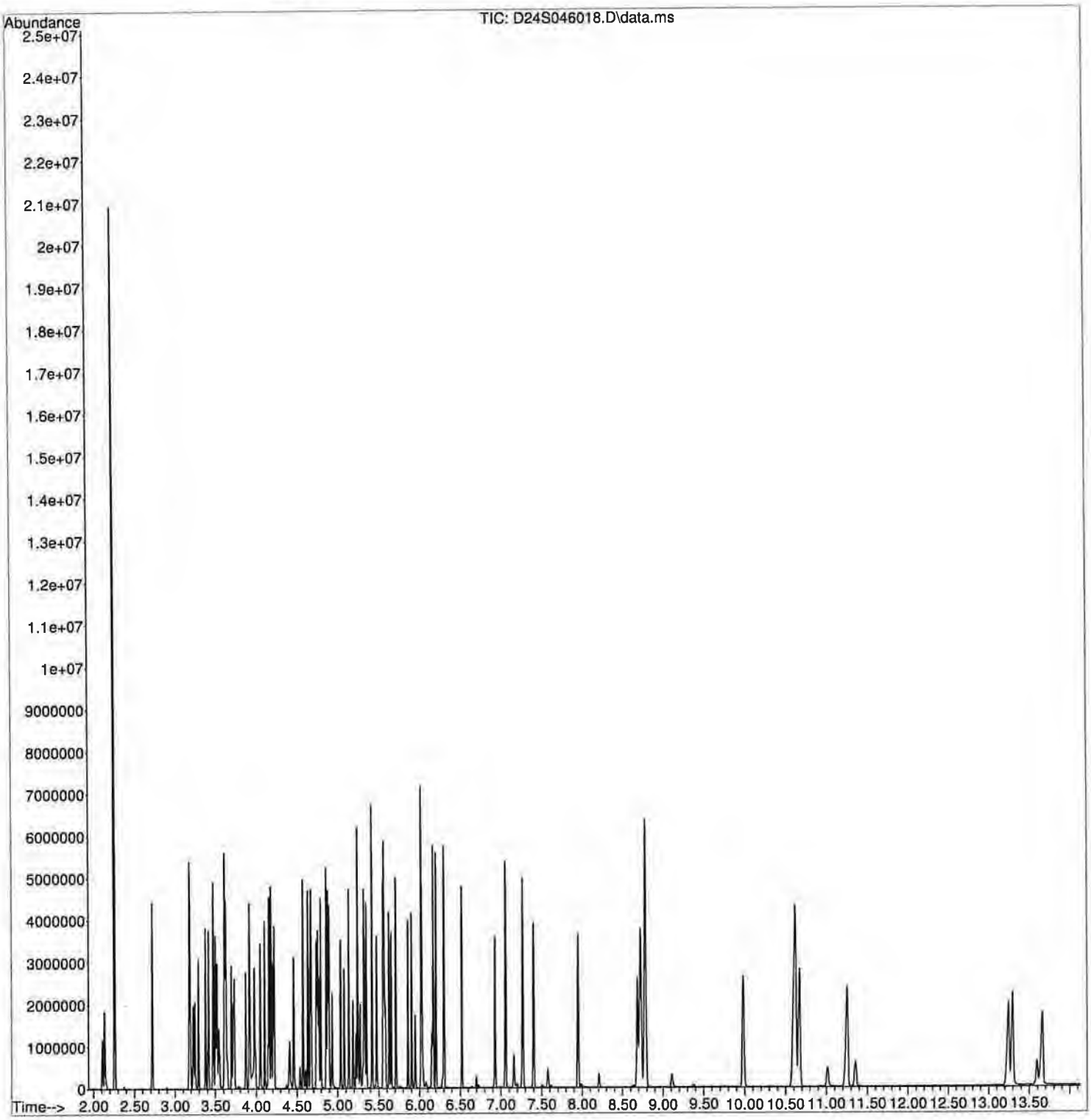
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) 2-Nitroaniline	4.931	65	263409	154.61 ug/ml	98
44) 1,1-Biphenyl	4.859	154	1075602	155.11 ug/ml	100
45) DIMETHYL PHTHALATE	5.037	163	1039120	157.21 ug/ml	100
46) 2,6-DinitroToluene	5.078	165	238404	173.43 ug/ml	95
47) Acenaphthylene	5.135	152	1411943	155.23 ug/ml	99
48) 3-Nitroaniline	5.186	138	216779	150.36 ug/ml	97
49) Acenaphthene	5.243	154	909037	162.05 ug/ml	98
50) 2,4-Dinitrophenol	5.248	184	148079	181.62 ug/ml#	48
51) 4-Nitrophenol	5.274	109	170576	163.76 ug/ml	99
52) Dibenzofuran	5.348	168	1222744	152.79 ug/ml	100
53) 2,4-Dinitrotoluene	5.330	165	335547	174.33 ug/ml	95
54) DIETHYL PHTHALATE	5.475	149	1023131	158.01 ug/ml	99
55) 4-Chlorophenyl phenyl ...	5.552	204	537490	163.75 ug/ml	98
56) Flourene	5.565	166	1054491	158.21 ug/ml	100
57) 4-Nitroaniline	5.572	138	259791	165.11 ug/ml	95
59) 4,6-Dinitro-2-Methylph...	5.585	198	193846	158.10 ug/ml	95
60) N-Nitrosodiphenylamine	5.627	169	706191	128.30 ug/ml	99
61) 1,2-Diphenylhydrazine	5.655	77	970116	139.82 ug/ml	99
62) 4-Bromophenyl phenyl e...	5.861	248	340228	167.22 ug/ml	96
63) Hexachlorobenzene	5.905	284	407434	174.72 ug/ml	95
64) Pentachlorophenol	6.023	266	309910	181.78 ug/ml	99
65) Pentachloronitrobenzene	6.031	295	73372	181.29 ug/ml#	87
66) Phenanthrene	6.170	178	1579428	155.56 ug/ml	99
67) Anthracene	6.203	178	1572448	153.67 ug/ml	99
68) Carbazole	6.301	167	1521581	156.18 ug/ml	99
69) Di-N-Butyl Phthalate	6.520	149	1856238	160.60 ug/ml	99
70) Flouranthene	7.058	202	1987766	165.97 ug/ml	99
73) Benzidine	7.159	184	278000	73.60 ug/ml	99
74) Pyrene	7.272	202	2074805	156.14 ug/ml	99
75) Butylbenzyl phthalate	7.952	149	943904	163.41 ug/ml	99
76) 3,3'-Dichlorobenzidine	8.688	252	716295	154.71 ug/ml	100
77) Benzo(a)anthracene	8.724	228	2104264	159.27 ug/ml	98
78) Chrysene	8.781	228	1928255	156.60 ug/ml	99
79) Bis(2-ethylhexyl)phtha...	8.788	149	1158233	160.08 ug/ml	98
81) Di-n-octylphthalate	9.983	149	2117621	168.91 ug/ml	99
82) Benzo(b)fluoranthene	10.624	252	2214083	173.88 ug/ml	99
83) Benzo(k)fluoranthene	10.673	252	1833565	164.52 ug/ml	99
84) Benzo(a)pyrene	11.255	252	1853295	167.31 ug/ml	99
85) Indeno(1,2,3-cd)pyrene	13.248	276	1446617	159.45 ug/ml	99
86) Dibenz(a,h)anthracene	13.299	278	1430194	162.23 ug/ml	98
87) Benzo(g,h,i)perylene	13.665	276	1327212	155.09 ug/ml	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D021524\
Data File : D24S046018.D
Acq On : 15 Feb 2024 4:44 pm
Operator : BGL
Sample : 8270std 160 ppm 24A0066 Inst : GCMSSV4
Misc :
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 16 08:34:43 2024
Quant Method : C:\msdchem\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Fri Feb 16 08:33:53 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D021524\
Data File : D24S046022.D
Acq On : 15 Feb 2024 6:08 pm
Operator : BGL
Sample : 8270ICV 50 ppm 24A0092 Inst : GCMSSV4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 16 08:47:13 2024
Quant Method : C:\msdchem\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Fri Feb 16 08:35:53 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-D4	3.404	152	116880	40.00	ug/ml	0.00
19) NAPHTHALENE-d8	4.143	136	403513	40.00	ug/ml	0.00
35) ACENAPHTHENE-D10	5.220	164	240706	40.00	ug/ml	0.00
58) PHENANTHRENE-D10	6.152	188	450013	40.00	ug/ml	0.00
71) CHRYSENE-D12	8.729	240	385559	40.00	ug/ml	0.00
80) PERYLENE-D12	11.348	264	423797	40.00	ug/ml	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	2.717	112	20743	7.28	ug/ml	0.00
Spiked Amount 200.000	Range 30 - 130		Recovery = 3.64%#			
3) Phenol-d6	3.168	99	32556	7.21	ug/ml	0.00
Spiked Amount 200.000	Range 30 - 130		Recovery = 3.61%#			
20) Nitrobenzene-d5	3.695	82	23205	6.21	ug/ml	-0.02
Spiked Amount 100.000	Range 30 - 130		Recovery = 6.21%#			
36) 2-Fluorobiphenyl	4.790	172	25317	3.43	ug/ml	0.00
Spiked Amount 100.000	Range 30 - 130		Recovery = 3.43%#			
37) 2,4,6-Tribromophenol	5.706	330	7875	6.28	ug/ml	0.00
Spiked Amount 200.000	Range 30 - 130		Recovery = 3.14%#			
72) Terphenyl-d14	7.395	244	25616	3.29	ug/ml	0.00
Spiked Amount 100.000	Range 30 - 130		Recovery = 3.29%#			
Target Compounds						Qvalue
4) N-Nitrosodimethylamine	2.109	42	119498	49.56	ug/ml	98
5) Pyridine	2.138	79	181511	43.88	ug/ml	100
6) Aniline	3.219	66	78935	36.92	ug/ml	98
7) Phenol	3.178	94	258460	50.98	ug/ml	91
8) Bis(2-chloroethyl)ether	3.242	63	140600	53.22	ug/ml	94
9) 2-Chlorophenol	3.289	128	202590	51.32	ug/ml	99
10) 1,3-Dichlorobenzene	3.374	146	222378	49.08	ug/ml	100
11) 1,4-Dichlorobenzene	3.415	146	219642	48.40	ug/ml	99
12) 1,2-Dichlorobenzene	3.500	146	208202	49.30	ug/ml	100
13) 2- METHYLPHENOL	3.513	108	170833	49.75	ug/ml	99
14) Bis(2-Chloroisopropyl)...	3.536	45	196019	56.06	ug/ml	95
15) Acetophenone	3.621	105	262889	48.59	ug/ml	100
16) 3/4- METHYLPHENOL	3.598	107	212626	54.67	ug/ml	100
17) N-Nitroso-Di-N-Propyla...	3.613	70	140884	48.90	ug/ml	87
18) Hexachloroethane	3.695	117	83844	49.31	ug/ml	99
21) NITROBENZENE	3.724	77	204858	49.73	ug/ml	99
22) Isophorone	3.858	82	360358	52.40	ug/ml	100
23) 2-Nitrophenol	3.909	139	96647	51.59	ug/ml	98
24) 2,4-Dimethylphenol	3.912	122	148106	43.63	ug/ml	100
25) Bis(2-Chloroethoxy)met...	3.973	93	199469	51.55	ug/ml	100
26) Benzoic Acid	3.955	122	115521	54.20	ug/ml	94
27) 2,4-Dichlorophenol	4.046	162	168237	50.33	ug/ml	99
28) 1,2,4-Trichlorobenzene	4.102	180	182778	49.53	ug/ml	100
29) Naphthalene	4.156	128	504165	50.19	ug/ml	100
30) 4-Chloroaniline	4.174	127	142432	34.64	ug/ml	99
31) Hexachlorobutadiene	4.218	225	105389	49.83	ug/ml	100
32) 4-Chloro-3-Methylphenol	4.455	107	159728	49.15	ug/ml	99
33) 2-MethylNaphthalene	4.571	142	338166	49.10	ug/ml	99
34) 1-Methylnaphthalene	4.633	142	310350	49.00	ug/ml	100
38) Hexachlorocyclopentadiene	4.663	237	93762	39.64	ug/ml	99
39) 1,2,4,5-Tetrachloroben...	4.671	216	186066	47.36	ug/ml	99
40) 2,4,6-Trichlorophenol	4.736	196	125298	48.96	ug/ml	100
41) 2,4,5-Trichlorophenol	4.759	196	130123	49.08	ug/ml	99
42) 2-ChloroNaphthalene	4.875	162	364962	43.21	ug/ml	100

70-130%

69% ✓ 40-160

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D021524\
Data File : D24S046022.D
Acq On : 15 Feb 2024 6:08 pm
Operator : BGL
Sample : 8270ICV 50 ppm 24A0092 Inst : GCMSSV4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 16 08:47:13 2024
Quant Method : C:\msdchem\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Fri Feb 16 08:35:53 2024
Response via : Initial Calibration

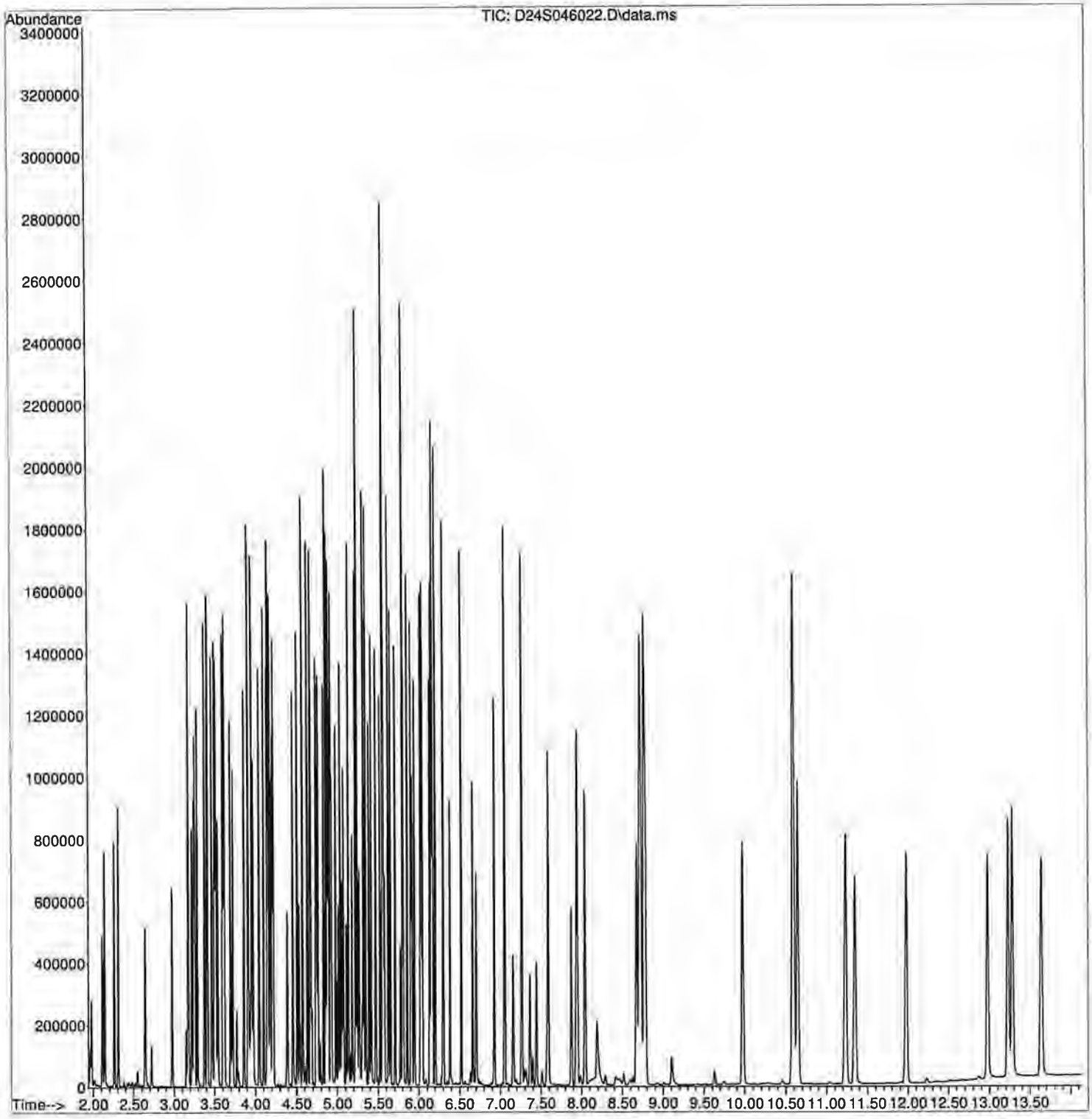
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) 2-Nitroaniline	4.929	65	123981	60.89 ug/ml	82
44) 1,1-Biphenyl	4.857	154	416552	50.26 ug/ml	100
45) DIMETHYL PHTHALATE	5.034	163	372170	47.11 ug/ml	100
46) 2,6-DinitroToluene	5.073	165	85741	52.19 ug/ml	97
47) Acenaphthylene	5.135	152	521767	48.00 ug/ml	100
48) 3-Nitroaniline	5.181	138	74092	43.00 ug/ml	99
49) Acenaphthene	5.240	154	328278	48.97 ug/ml	99
50) 2,4-Dinitrophenol	5.243	184	41779	47.64 ug/ml#	88
51) 4-Nitrophenol	5.266	109	60264	48.41 ug/ml	97
52) Dibenzofuran	5.346	168	473237	49.48 ug/ml	100
53) 2,4-Dinitrotoluene	5.323	165	114547	49.80 ug/ml	98
54) DIETHYL PHTHALATE	5.469	149	366313	47.33 ug/ml	100
55) 4-Chlorophenyl phenyl ...	5.552	204	189301	48.26 ug/ml	100
56) Flourene	5.559	166	378872	47.56 ug/ml	100
57) 4-Nitroaniline	5.562	138	92259	49.06 ug/ml	99
59) 4,6-Dinitro-2-Methylph...	5.578	198	60771	47.68 ug/ml	97
60) N-Nitrosodiphenylamine	5.621	169	311322	48.90 ug/ml	100
61) 1,2-Diphenylhydrazine	5.650	77	377801	47.07 ug/ml	99
62) 4-Bromophenyl phenyl e...	5.858	248	109873	46.68 ug/ml	99
63) Hexachlorobenzene	5.899	284	128930	47.80 ug/ml	99
64) Pentachlorophenol	6.018	266	91659	46.48 ug/ml	98
65) Pentachloronitrobenzene	6.028	295	22845	48.80 ug/ml	97
66) Phenanthrene	6.167	178	547791	46.64 ug/ml	100
67) Anthracene	6.201	178	559389	47.26 ug/ml	100
68) Carbazole	6.298	167	520125	46.15 ug/ml	100
69) Di-N-Butyl Phthalate	6.517	149	618429	46.25 ug/ml	100
70) Flouranthene	7.053	202	639927	46.19 ug/ml	100
73) Benzidine	7.156	184	141280	36.57 ug/ml	99
74) Pyrene	7.264	202	660723	48.62 ug/ml	99
75) Butylbenzyl phthalate	7.946	149	280633	47.51 ug/ml	99
76) 3,3'-Dichlorobenzidine	8.675	252	202460	42.76 ug/ml	100
77) Benzo(a)anthracene	8.716	228	633533	46.89 ug/ml	100
78) Chrysene	8.768	228	582564	46.27 ug/ml	100
79) Bis(2-ethylhexyl)phtha...	8.783	149	353813	47.82 ug/ml	100
81) Di-n-octylphthalate	9.973	149	626211	43.92 ug/ml	100
82) Benzo(b)fluoranthene	10.591	252	665138	45.94 ug/ml	99
83) Benzo(k)fluoranthene	10.650	252	609305	48.08 ug/ml	100
84) Benzo(a)pyrene	11.232	252	579377	46.00 ug/ml	100
85) Indeno(1,2,3-cd)pyrene	13.230	276	506034	49.05 ug/ml	99
86) Dibenz(a,h)anthracene	13.281	278	491298	49.01 ug/ml	100
87) Benzo(g,h,i)perylene	13.642	276	487159	50.06 ug/ml	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D021524\
Data File : D24S046022.D
Acq On : 15 Feb 2024 6:08 pm
Operator : BGL
Sample : 8270ICV 50 ppm 24A0092 Inst : GCMSSV4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 16 08:47:13 2024
Quant Method : C:\msdchem\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Fri Feb 16 08:35:53 2024
Response via : Initial Calibration



Injection Log

GL

C:\msdchem\1\DATA\D021524\

Date	Filename	Lab ID	Sample Info
15 Feb 2024 10:46 am	D24S046001.D	DFTPP	50ng 2303080F2 1953
15 Feb 2024 11:05 am	D24S046002.D	blank	
15 Feb 2024 11:26 am	D24S046003.D	NCExtras	5 ppm 2307665
15 Feb 2024 11:47 am	D24S046004.D	NCExtras	10 ppm 2307678
15 Feb 2024 12:08 pm	D24S046005.D	NCExtras	20 ppm 2307679
15 Feb 2024 12:29 pm	D24S046006.D	NCExtras	50 ppm 2307680
15 Feb 2024 12:50 pm	D24S046007.D	NCExtras	80 ppm 2307681 NCD02154.M
15 Feb 2024 1:11 pm	D24S046008.D	NCExtras	100 ppm 2307682
15 Feb 2024 1:32 pm	D24S046009.D	NCExtrasICV	50 ppm 24A0092
15 Feb 2024 1:54 pm	D24S046010.D	8270std	2 ppm 24a0091
15 Feb 2024 2:15 pm	D24S046011.D	8270std	5 ppm 24A0084
15 Feb 2024 2:36 pm	D24S046012.D	8270std	10 ppm 24A0085
15 Feb 2024 2:58 pm	D24S046013.D	8270std	20 ppm 24A0086
15 Feb 2024 3:19 pm	D24S046014.D	8270std	50 ppm 24A0087
15 Feb 2024 3:40 pm	D24S046015.D	8270std	80 ppm 24A0088 BND02154.M
15 Feb 2024 4:01 pm	D24S046016.D	8270std	100 ppm 24A0089
15 Feb 2024 4:23 pm	D24S046017.D	8270std	120ppm 24A0090
15 Feb 2024 4:44 pm	D24S046018.D	8270std	160 ppm 24A0066
15 Feb 2024 5:04 pm	D24S046019.D	8270std	test 2ppm
15 Feb 2024 5:25 pm	D24S046020.D	8270std	test 5ppm } do not need
15 Feb 2024 5:47 pm	D24S046021.D	8270std	test 10ppm
15 Feb 2024 6:08 pm	D24S046022.D	8270ICV	50 ppm 24A0092
15 Feb 2024 6:29 pm	D24S046023.D	TEST	
15 Feb 2024 6:50 pm	D24S046024.D	DFTPP	50 NG 2303080
15 Feb 2024 7:11 pm	D24S046025.D	8270std	50 ppm 24B0185
15 Feb 2024 7:32 pm	D24S046026.D	B362877-BLK1@/8270W	1/09
15 Feb 2024 7:53 pm	D24S046027.D	B362877-MRL1@/	LOQ Q1
15 Feb 2024 8:15 pm	D24S046028.D	B362877-MRL2	
15 Feb 2024 8:36 pm	D24S046029.D	B362877-MRL3	
15 Feb 2024 8:57 pm	D24S046030.D	B362877-MRL4	
15 Feb 2024 9:18 pm	D24S046031.D	B362877-MRL5	
15 Feb 2024 9:39 pm	D24S046032.D	B362877-MRL6	
15 Feb 2024 10:01 pm	D24S046033.D	B362882-BLK1@/8270S	01/09
15 Feb 2024 10:21 pm	D24S046034.D	B362882-MRL1@/LOQ	Q1
15 Feb 2024 10:43 pm	D24S046035.D	B362882-MRL2	
15 Feb 2024 11:04 pm	D24S046036.D	B362882-MRL3	
15 Feb 2024 11:25 pm	D24S046037.D	B362882-MRL4	
15 Feb 2024 11:47 pm	D24S046038.D	B362882-MRL5	
16 Feb 2024 12:08 am	D24S046039.D	B362882-MRL6	

S100592 #2400199 NCD02154.M
S100626 #2400207

Response Factor Report GCMSSV4

Method Path : C:\msdchem\1\METHODS\
Method File : NCD02154.M
Title : 8270STD SVMS4 N.C. apx2 extra compds PulseWool
Last Update : Fri Feb 16 07:00:23 2024
Response Via : Initial Calibration

Calibration Files
5 =D24S046003.D 10 =D24S046004.D 20 =D24S046005.D 50 =D24S046006.D 80 =D24S046007.D
100 =D24S046008.D

		Compound	5	10	20	50	80	100	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	ISTD							
2)	S	2-Fluorophenol							0.000	-1.00
3)	S	Phenol-d6							0.000	-1.00
4)		Benzaldehyde	0.935	1.031	1.273	1.028	1.039	1.300	1.101	13.53
5)		Benzyl Alcohol	0.760	0.886	1.100	0.854	0.857	1.047	0.917	14.10
6)	I	NAPHTHALENE-d8 (2)	ISTD							
7)	S	Nitrobenzene-d5							0.000	-1.00
8)		2,6-Dichloroph...	0.301	0.340	0.418	0.328	0.322	0.406	0.353	13.59
9)		Caprolactam	0.089	0.100	0.125	0.097	0.097	0.120	0.105	13.82
10)	I	ACENAPHTHENE-D10 (2)	ISTD							
11)	S	2-Fluorobiphenyl							0.000	-1.00
12)	S	2,4,6-Tribromo...							0.000	-1.00
13)		Biphenyl	1.418	1.595	1.949	1.503	1.475	1.875	1.636	13.60
14)		2,3,4,6-Tetrac...	0.232	0.262	0.341	0.277	0.279	0.359	0.292	16.73
15)		Atrazine	0.333	0.367	0.462	0.365	0.370	0.473	0.395	14.66
16)	I	PHENANTHRENE-D10 (2)	ISTD							
17)	I	CHRYSENE-D12 (2)	ISTD							
18)	S	Terphenyl-d14							0.000	-1.00
19)	I	PERYLENE-D12 (2)	ISTD							

(#) = Out of Range

NCD02154.M Fri Feb 16 07:00:34 2024

DATA ANALYSIS PARAMETERS

Method Name: C:\msdchem\1\METHODS\NCD02154.M

Percent Report Settings

Sort By: Retention Time

Output Destination
    Screen: No
    Printer: Yes
    File: No

Integration Events: Meth Default

Generate Report During Run Method: No

Signal Correlation Window: 0.020

Qualitative Report Settings

Peak Location of Unknown: Apex

Library to Search	Minimum Quality
C:\Database\NIST05.L	0

Integration Events: Meth Default

Report Type: Summary

Output Destination
    Screen: No
    Printer: Yes
    File: No

Generate Report During Run Method: No

Quantitative Report Settings

Report Type: Summary

Output Destination
    Screen: No
    Printer: No
    File: No

Generate Report During Run Method: Yes

8270STD SVMS4 N.C. apx2 extra compds PulseWool
Calibration Last Updated: Fri Feb 16 07:00:23 2024

Reference Window: 0.20 Minutes
Non-Reference Window: 0.20 Minutes
Correlation Window: 0.10 minutes
Default Multiplier: 1.00

efault Sample Concentration: 0.00

Compound Information

---

1) 1,4-Dichlorobenzene-D4 (2) (ISTD TR)

Ret. Time 3.404 min., Extract & Integrate from 1.940 to 4.864 min.

Signal	Rel Resp.	Pct. Unc.(abs)	Integration
Tgt 151.90			*** METH DEFAULT ***
Q1 149.90	153.30	20.0	*** METH DEFAULT ***
Q2 115.00	58.20	20.0	*** METH DEFAULT ***

Lvl ID	Conc (ug/ml)	Response
5	40.000	111378
10	40.000	100691
20	40.000	116704
50	40.000	110365
80	40.000	105402
100	40.000	101859

Qualifier Peak Analysis ON ISTD conc: 40.000 ug/ml
Curve Fit: Avg. RF

---

2) 2-Fluorophenol ( )

Ret. Time 2.832 min., Extract & Integrate from 2.572 to 3.092 min.

Signal	Rel Resp.	Pct. Unc.(abs)	Integration
Tgt 112.00			*** METH DEFAULT ***
Q1 64.00	64.70	20.0	*** METH DEFAULT ***

Lvl ID	Conc (ug/ml)	Response
5	5.000	-1
10	10.000	-1
20	20.000	-1
50	50.000	-1
80	80.000	-1
100	100.000	-1

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

3) Phenol-d6 ( )

Ret. Time 3.289 min., Extract & Integrate from 3.089 to 3.495 min.

Signal	Rel Resp.	Pct. Unc.(abs)	Integration
Tgt 99.00			*** METH DEFAULT ***
Q1 70.90	4.50	20.0	*** METH DEFAULT ***

Lvl ID	Conc (ug/ml)	Response
5	5.000	-1
10	10.000	-1
20	20.000	-1
50	50.000	-1
80	80.000	-1
100	100.000	-1

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

4) Benzaldehyde ( )

Ret. Time 3.170 min., Extract & Integrate from 2.970 to 3.370 min.

Signal	Rel Resp.	Pct. Unc.(abs)	Integration
Tgt 106.00			*** METH DEFAULT ***
Q1 105.00	104.90	20.0	*** METH DEFAULT ***

Q2	77.00	113.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
5		5.000	13015
10		10.000	25958
20		20.000	74279
50		50.000	141850
80		80.000	218953
100		100.000	331101

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

5) Benzyl Alcohol ( )

Ret. Time 3.466 min., Extract & Integrate from 3.266 to 3.666 min.

Signal	Rel Resp.	Pct. Unc.(abs)	Integration
Tgt 108.00			*** METH DEFAULT ***
Q1 79.00	140.50	20.0	*** METH DEFAULT ***
Q2 77.00	97.10	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
5		5.000	10583
10		10.000	22301
20		20.000	64215
50		50.000	117870
80		80.000	180601
100		100.000	266642

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

6) NAPHTHALENE-d8 (2) (ISTD TR)

Ret. Time 4.143 min., Extract & Integrate from 3.083 to 5.203 min.

Signal	Rel Resp.	Pct. Unc.(abs)	Integration
Tgt 136.10			*** METH DEFAULT ***
Q1 68.00	5.50	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
5		40.000	404957
10		40.000	368966
20		40.000	422704
50		40.000	394767
80		40.000	374221
100		40.000	349723

Qualifier Peak Analysis ON ISTD conc: 40.000 ug/ml
Curve Fit: Avg. RF

---

7) Nitrobenzene-d5 ( )

Ret. Time 3.695 min., Extract & Integrate from 3.435 to 3.941 min.

Signal	Rel Resp.	Pct. Unc.(abs)	Integration
Tgt 81.90			*** METH DEFAULT ***
Q1 128.90	0.10	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
5		5.000	-1
10		10.000	-1
20		20.000	-1
50		50.000	-1
80		80.000	-1
100		100.000	-1

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

8) 2,6-Dichlorophenol ( )

Ret. Time 4.182 min., Extract & Integrate from 3.982 to 4.382 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	161.90			*** METH DEFAULT ***
Q1	163.90	64.10	20.0	*** METH DEFAULT ***
Q2	63.00	62.30	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
5		5.000	15259
10		10.000	31354
20		20.000	88410
50		50.000	162019
80		80.000	240833
100		100.000	355018

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

9) Caprolactam ( )

Ret. Time 4.380 min., Extract & Integrate from 4.180 to 4.530 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	113.00			*** METH DEFAULT ***
Q1	55.00	143.60	20.0	*** METH DEFAULT ***
Q2	56.00	115.50	20.0	*** METH DEFAULT ***
Q3	85.00	76.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
5		5.000	4511
10		10.000	9179
20		20.000	26480
50		50.000	47942
80		80.000	72570
100		100.000	104974

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

10) ACENAPHTHENE-D10 (2) (ISTD TR)

Ret. Time 5.220 min., Extract & Integrate from 4.160 to 6.280 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	164.10			*** METH DEFAULT ***
Q1	162.10	97.20	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
5		40.000	240021
10		40.000	212169
20		40.000	242616
50		40.000	227885
80		40.000	216000
100		40.000	201883

Qualifier Peak Analysis ON ISTD conc: 40.000 ug/ml
Curve Fit: Avg. RF

---

11) 2-Fluorobiphenyl ( )

Ret. Time 4.733 min., Extract & Integrate from 4.473 to 4.999 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	171.90			*** METH DEFAULT ***
Q1	169.80	440.90	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
5		5.000	-1

10	10.000	-1
20	20.000	-1
50	50.000	-1
80	80.000	-1
100	100.000	-1

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

12) 2,4,6-Tribromophenol ( )

Ret. Time 5.811 min., Extract & Integrate from 5.571 to 6.051 min.

Signal	Rel Resp.	Pct. Unc.(abs)	Integration
Tgt 329.80			*** METH DEFAULT ***
Q1 331.80	96.20	20.0	*** METH DEFAULT ***

Lvl ID	Conc (ug/ml)	Response
5	5.000	-1
10	10.000	-1
20	20.000	-1
50	50.000	-1
80	80.000	-1
100	100.000	-1

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

13) Biphenyl ( )

Ret. Time 4.854 min., Extract & Integrate from 4.654 to 5.054 min.

Signal	Rel Resp.	Pct. Unc.(abs)	Integration
Tgt 154.00			*** METH DEFAULT ***
Q1 153.00	40.20	20.0	*** METH DEFAULT ***
Q2 152.00	28.50	20.0	*** METH DEFAULT ***
Q3 76.00	12.70	20.0	*** METH DEFAULT ***

Lvl ID	Conc (ug/ml)	Response
5	5.000	42549
10	10.000	84588
20	20.000	236398
50	50.000	428189
80	80.000	637304
100	100.000	946090

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

14) 2,3,4,6-Tetrachlorophenol ( )

Ret. Time 5.413 min., Extract & Integrate from 5.213 to 5.613 min.

Signal	Rel Resp.	Pct. Unc.(abs)	Integration
Tgt 229.90			*** METH DEFAULT ***
Q1 231.80	126.70	20.0	*** METH DEFAULT ***
Q2 130.90	61.30	20.0	*** METH DEFAULT ***

Lvl ID	Conc (ug/ml)	Response
5	5.000	6953
10	10.000	13871
20	20.000	41390
50	50.000	78946
80	80.000	120344
100	100.000	181310

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

15) Atrazine ( )

Ret. Time 5.943 min., Extract & Integrate from 5.743 to 6.143 min.

Signal	Rel Resp.	Pct. Unc.(abs)	Integration
Tgt 200.00			*** METH DEFAULT ***
Q1 215.10	47.60	20.0	*** METH DEFAULT ***
Q2 216.00	6.90	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
5		5.000	9984
10		10.000	19467
20		20.000	56003
50		50.000	103886
80		80.000	159841
100		100.000	238833

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

16) PHENANTHRENE-D10 (2) (ISTD TR)

Ret. Time 6.149 min., Extract & Integrate from 4.685 to 7.613 min.

Signal	Rel Resp.	Pct. Unc.(abs)	Integration
Tgt 188.10			*** METH DEFAULT ***
Q1 94.00	9.10	20.0	*** METH DEFAULT ***
Q2 80.00	10.10	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
5		40.000	432827
10		40.000	381558
20		40.000	434099
50		40.000	411058
80		40.000	395875
100		40.000	369482

Qualifier Peak Analysis ON ISTD conc: 40.000 ug/ml
Curve Fit: Avg. RF

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17) CHRYSENE-D12 (2) (ISTD TR)

Ret. Time 8.729 min., Extract & Integrate from 7.265 to 10.193 min.

Signal	Rel Resp.	Pct. Unc.(abs)	Integration
Tgt 240.10			*** METH DEFAULT ***
Q1 236.10	26.20	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
5		40.000	354560
10		40.000	319896
20		40.000	360125
50		40.000	375697
80		40.000	374011
100		40.000	351434

Qualifier Peak Analysis ON ISTD conc: 40.000 ug/ml
Curve Fit: Avg. RF

---

18) Terphenyl-d14 ( )

Ret. Time 7.400 min., Extract & Integrate from 5.938 to 8.862 min.

Signal	Rel Resp.	Pct. Unc.(abs)	Integration
Tgt 244.10			*** METH DEFAULT ***
Q1 245.20	0.00	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
5		5.000	-1
10		10.000	-1
20		20.000	-1
50		50.000	-1

80	80.000	-1
100	100.000	-1

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

19) PERYLENE-D12 (2) (ISTD TR)

Ret. Time 11.345 min., Extract & Integrate from 9.881 to 12.809 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	264.10			*** METH DEFAULT ***
Q1	260.10	23.10	20.0	*** METH DEFAULT ***
Q2	265.10	21.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
5		40.000	372999
10		40.000	339032
20		40.000	378936
50		40.000	390236
80		40.000	386533
100		40.000	357745

Qualifier Peak Analysis ON ISTD conc: 40.000 ug/ml
Curve Fit: Avg. RF

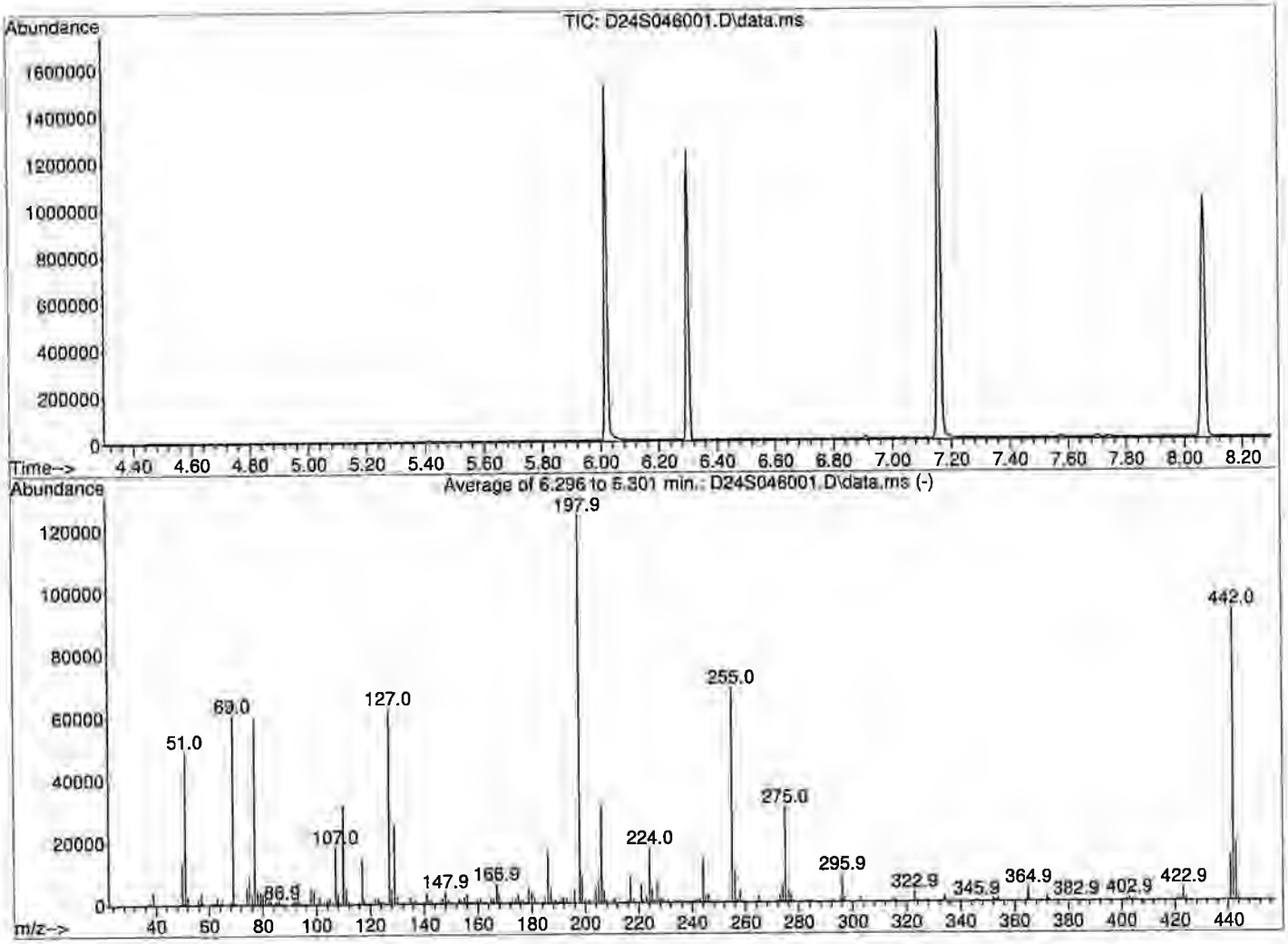
END OF DATA ANALYSIS PARAMETERS

Fri Feb 16 09:20:08 2024

Data Path : C:\msdchem\1\DATA\D021524\
Data File : D24S046001.D
Acq On : 15 Feb 2024 10:46 am
Operator : BGL
Sample : DFTPP 50ng 2303080F2 1953 Inst : GCMSSV4
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\METHODS\DFTPPE.M
Title : dftpp svms4 merge method C Criteria
Last Update : Sat Mar 14 15:39:58 2009

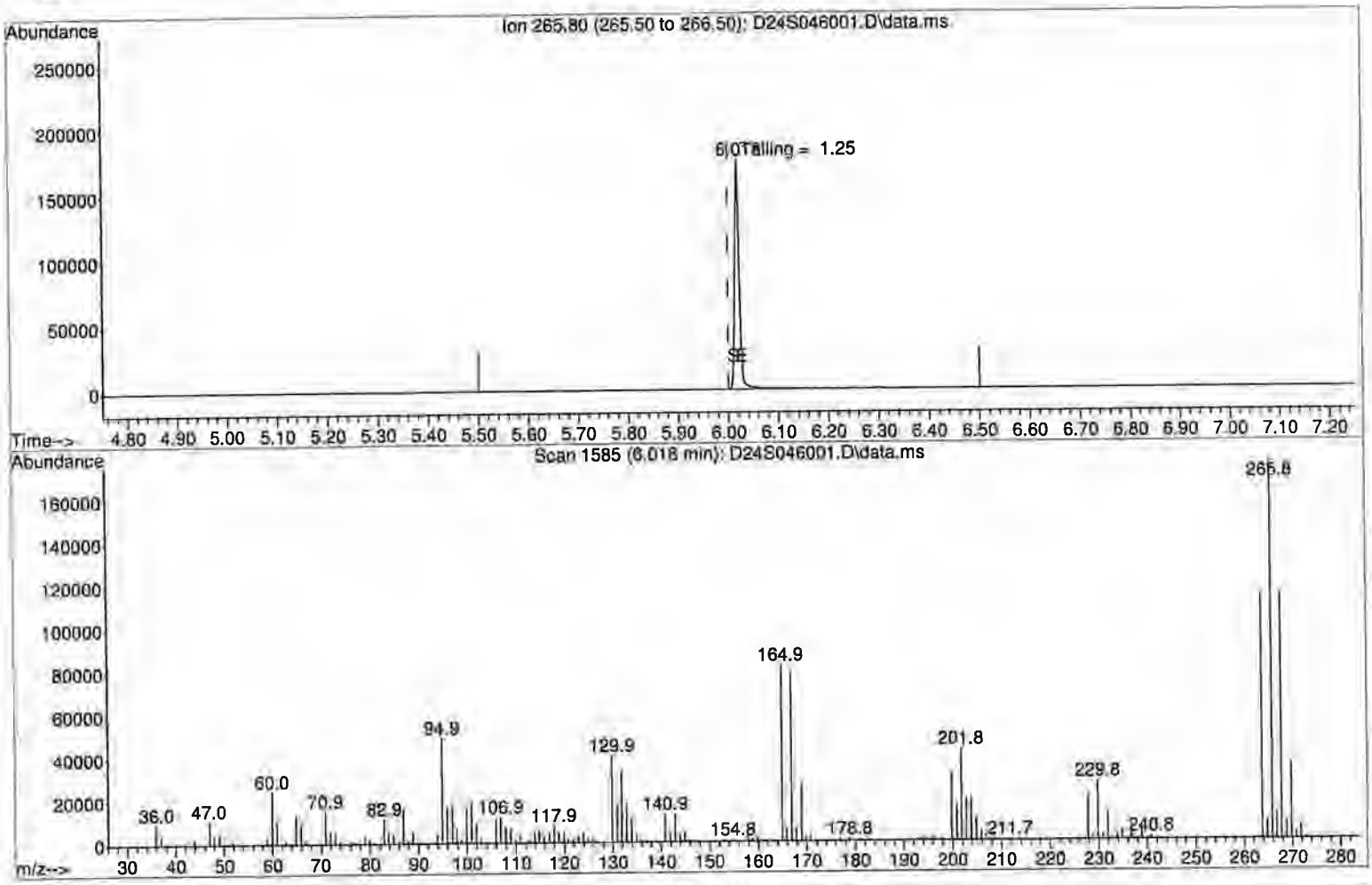


AutoFind: Scans 1693, 1694, 1695; Background Corrected with Scan 1686

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.6	989	PASS
69	69	100	100	100.0	60408	PASS
70	69	0.00	2	0.6	366	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	124635	PASS
199	198	5	9	6.6	8273	PASS
365	198	1	100	3.5	4351	PASS
441	442	0.01	24	15.6	14474	PASS
442	198	0.01	100	74.7	93043	PASS
443	442	15	24	19.7	18346	PASS

Data Path : C:\msdchem\1\DATA\D021524\
Data File : D24S046001.D
Acq On : 15 Feb 2024 10:46 am
Operator : BGL
Sample : DFTPP 50ng 2303080F2 1953 Inst : GCMSSV4
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 15 14:05:54 2024
Quant Method : C:\msdchem\1\METHODS\DFTPPE.M
DataAcq Meth:BND02154.M
Quant Title : dftpp svms4 merge method C Criteria
QLast Update : Mon Jul 21 14:15:56 2008
Response via : Initial Calibration



TIC: D24S046001.D\data.ms

(1) Pentachlorophenol

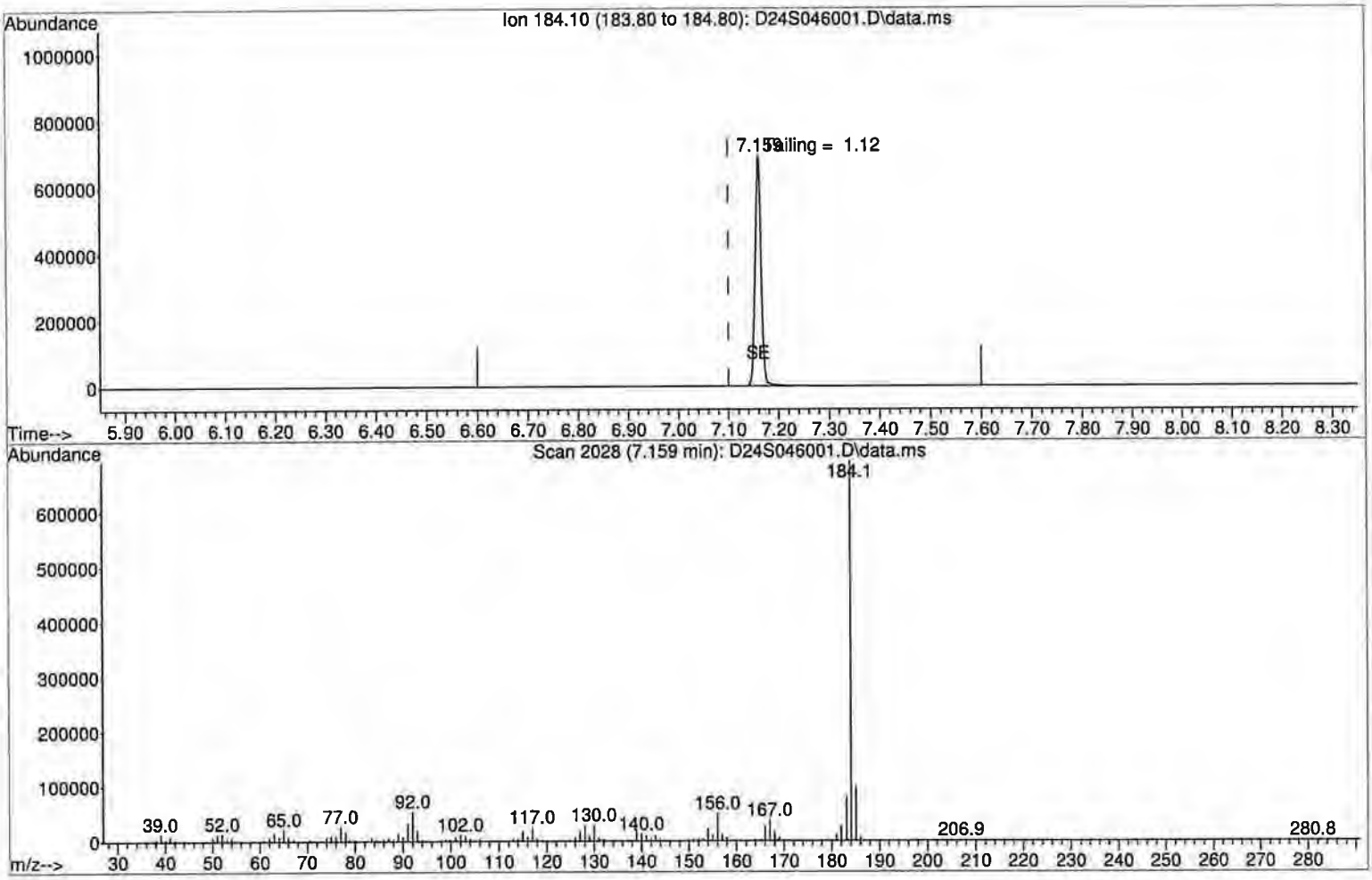
6.018min (+0.018) 0.00

response 108052

Ion	Exp%	Act%
265.80	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : C:\msdchem\1\DATA\D021524\
Data File : D24S046001.D
Acq On : 15 Feb 2024 10:46 am
Operator : BGL
Sample : DFTPP 50ng 2303080F2 1953 Inst : GCMSSV4
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 15 14:05:54 2024
Quant Method : C:\msdchem\1\METHODS\DFTPPE.M
DataAcq Meth:BND02154.M
Quant Title : dftpp svms4 merge method C Criteria
QLast Update : Mon Jul 21 14:15:56 2008
Response via : Initial Calibration



TIC: D24S046001.D\data.ms

(3) benzidine

7.159min (+0.059) 0.00

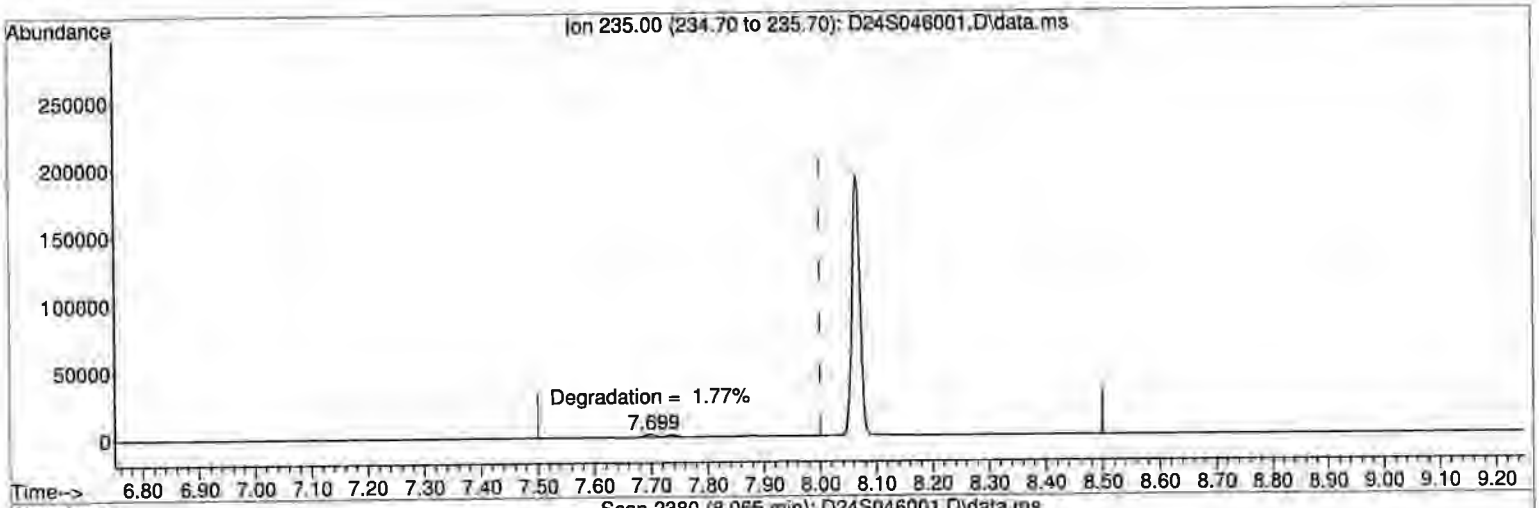
response 577549

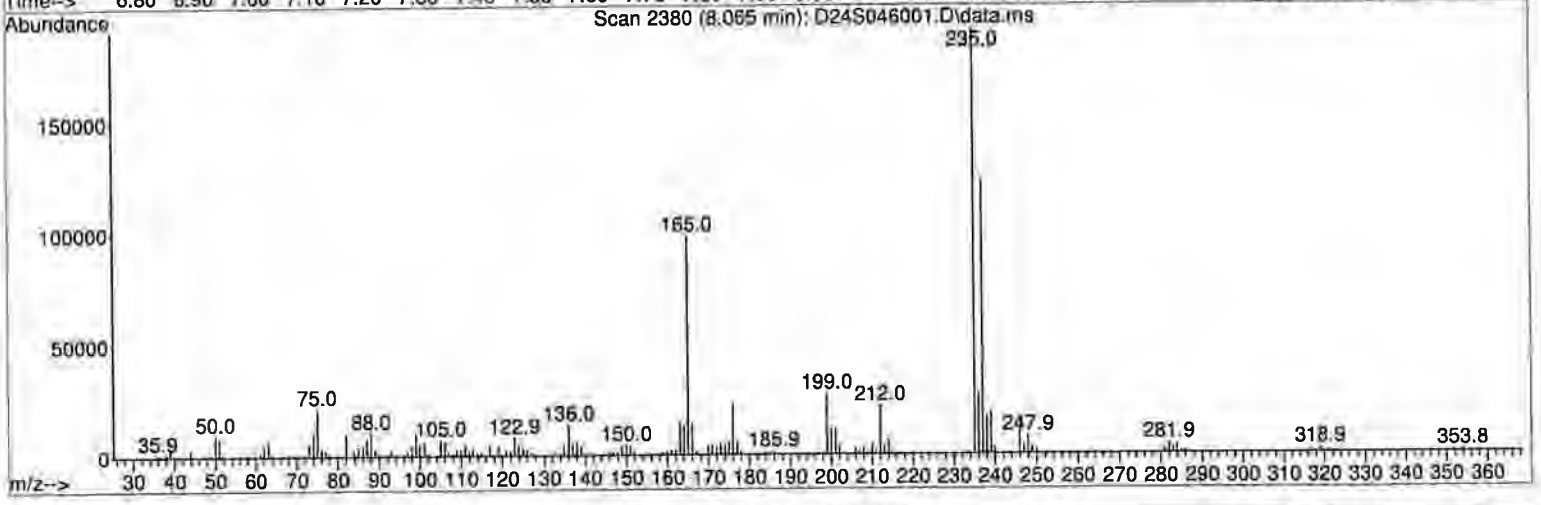
Ion	Exp%	Act%
184.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\D021524\
Data File : D24S046001.D
Acq On : 15 Feb 2024 10:46 am
Operator : BGL
Sample : DFTPP 50ng 2303080F2 1953 Inst : GCMSSV4
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 15 14:05:54 2024
Quant Method : C:\msdchem\1\METHODS\DFTPPE.M
DataAcq Meth:BND02154.M
Quant Title : dftpp svms4 merge method C Criteria
QLast Update : Mon Jul 21 14:15:56 2008
Response via : Initial Calibration





TIC: D24S046001.D\data.ms

(4) DDT

8.065min (+0.065) 0.00

response 188886

Ion	Exp%	Act%
235.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D021524\
Data File : D24S046003.D
Acq On : 15 Feb 2024 11:26 am
Operator : BGL
Sample : NCExtras 5 ppm 2307665 Inst : GCMSSV4
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 15 14:32:37 2024
Quant Method : C:\msdchem\1\METHODS\NCD02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270STD SVMS4 N.C. apx2 extra compds PulseWool
QLast Update : Thu Feb 15 13:55:57 2024
Response via : Initial Calibration

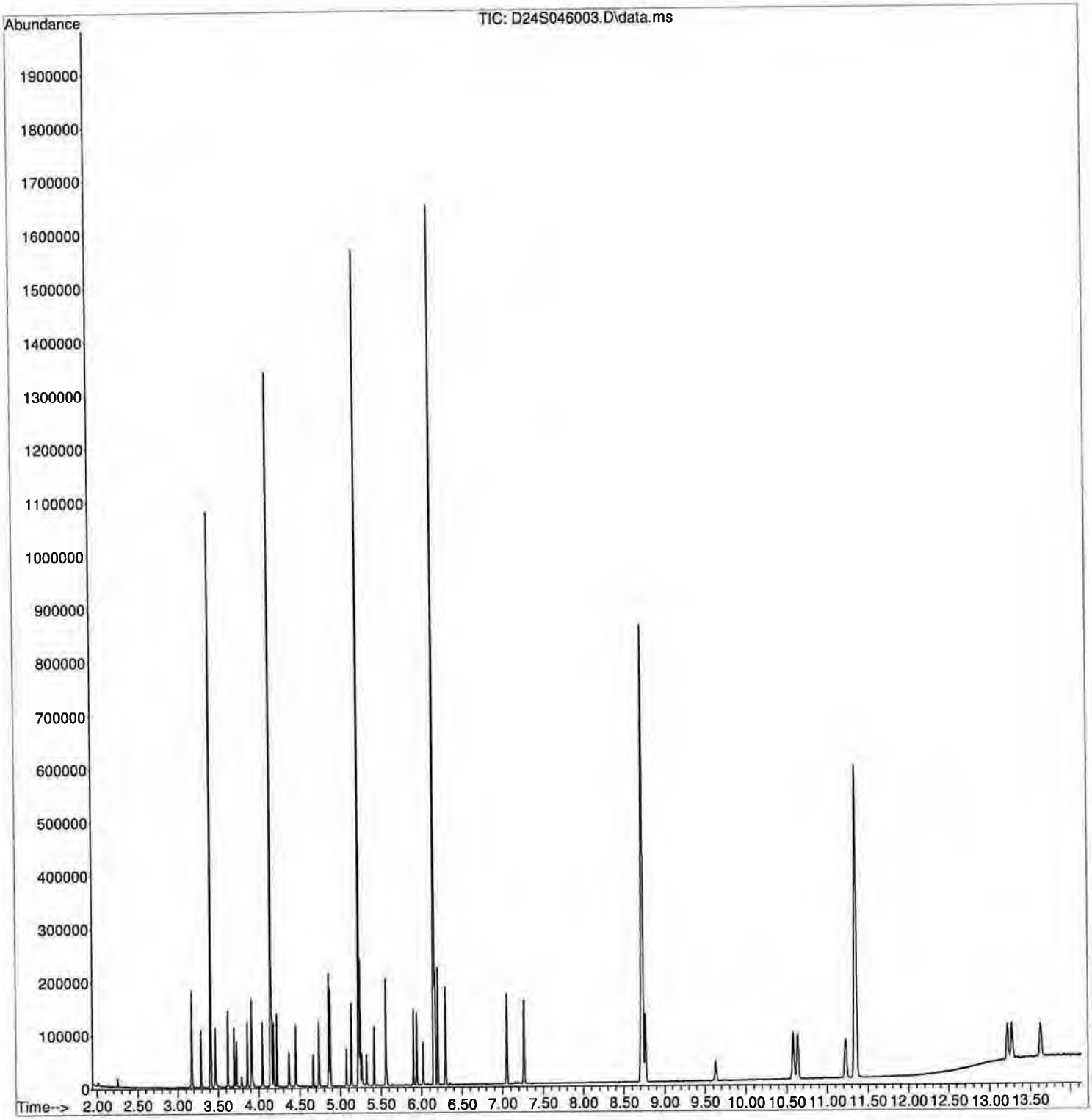
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-D4...	3.404	152	111378	40.00	ug/ml	0.00
6) NAPHTHALENE-d8 (2)	4.143	136	404957	40.00	ug/ml	0.00
10) ACENAPHTHENE-D10 (2)	5.220	164	240021	40.00	ug/ml	0.00
16) PHENANTHRENE-D10 (2)	6.149	188	432827	40.00	ug/ml	0.00
17) CHRYSENE-D12 (2)	8.726	240	354560	40.00	ug/ml	0.00
19) PERYLENE-D12 (2)	11.345	264	372999	40.00	ug/ml	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	0.000	112	0	0.00	ug/ml	
Spiked Amount 200.000	Range 30 - 130		Recovery =	0.00%#		
3) Phenol-d6	3.289	99	1066	0.00	ug/ml	0.00
Spiked Amount 200.000	Range 30 - 130		Recovery =	0.00%#		
7) Nitrobenzene-d5	3.695	82	2169	0.00	ug/ml	0.00
Spiked Amount 100.000	Range 30 - 130		Recovery =	0.00%#		
11) 2-Fluorobiphenyl	4.790	172	35	0.00	ug/ml	0.06
Spiked Amount 100.000	Range 30 - 130		Recovery =	0.00%#		
12) 2,4,6-Tribromophenol	0.000	330	0	0.00	ug/ml	
Spiked Amount 200.000	Range 30 - 130		Recovery =	0.00%#		
18) Terphenyl-d14	7.395	244	185	0.00	ug/ml	0.00
Spiked Amount 100.000	Range 30 - 130		Recovery =	0.00%#		
Target Compounds						Qvalue
4) Benzaldehyde	3.170	106	13015	4.25	ug/ml	96
5) Benzyl Alcohol	3.464	108	10583	4.14	ug/ml	99
8) 2,6-Dichlorophenol	4.182	162	15259	4.27	ug/ml	97
9) Caprolactam	4.367	113	4511	4.26	ug/ml#	81
13) Biphenyl	4.854	154	42549	4.34	ug/ml	99
14) 2,3,4,6-Tetrachlorophenol	5.413	230	6953	3.97	ug/ml	99
15) Atrazine	5.941	200	9984	4.21	ug/ml	97

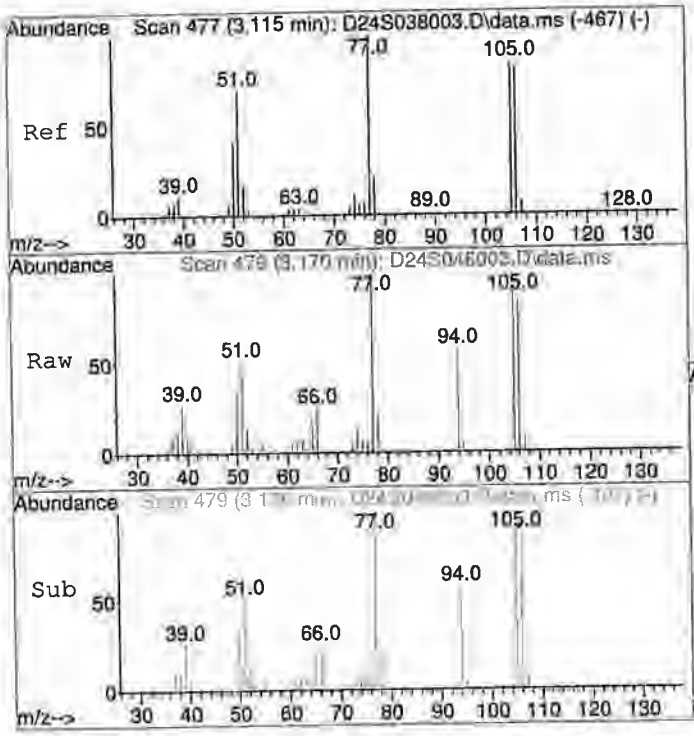
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D021524\
Data File : D24S046003.D
Acq On : 15 Feb 2024 11:26 am
Operator : BGL
Sample : NCExtras 5 ppm 2307665 Inst : GCMSSV4
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 15 14:32:37 2024
Quant Method : C:\msdchem\1\METHODS\NCD02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270STD SVMS4 N.C. apx2 extra compds PulseWool
QLast Update : Thu Feb 15 13:55:57 2024
Response via : Initial Calibration

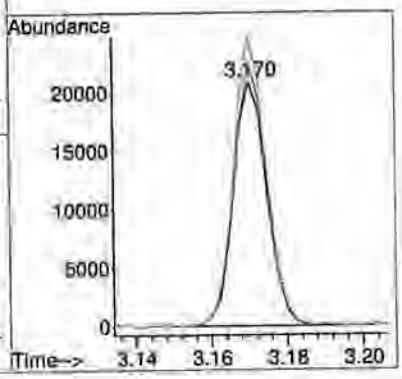


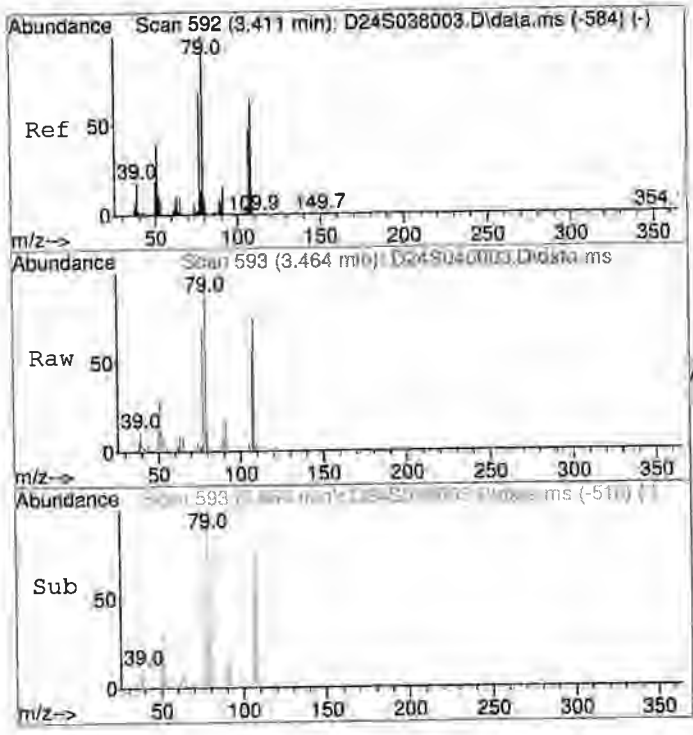


#4
Benzaldehyde
Concen: 4.15 ug/ml
RT: 3.170 min Scan# 479
Delta R.T. 0.000 min
Lab File: D24S046003.D
Acq: 15 Feb 2024 11:26 am

Tgt Ion:106 Resp: 13015

Ion	Ratio	Lower	Upper
106	100		
105	107.8	84.4	124.4
77	120.0	95.7	135.7

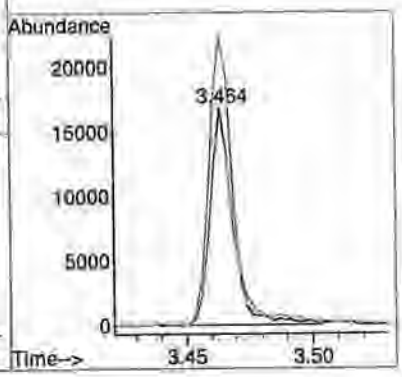


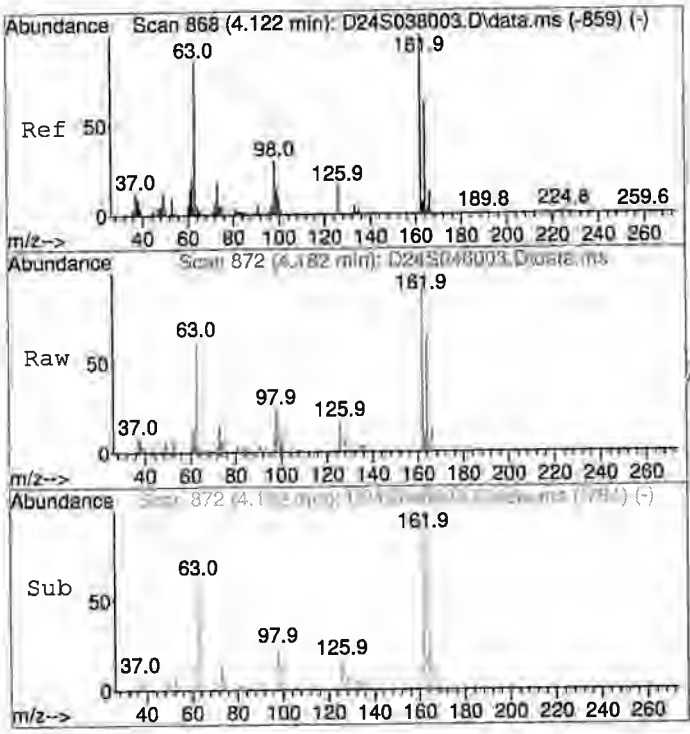


#5
Benzyl Alcohol
Concen: 4.11 ug/ml
RT: 3.464 min Scan# 593
Delta R.T. -0.003 min
Lab File: D24S046003.D
Acq: 15 Feb 2024 11:26 am

Tgt Ion:108 Resp: 10583

Ion	Ratio	Lower	Upper
108	100		
79	141.6	121.7	161.7
77	96.2	72.9	112.9

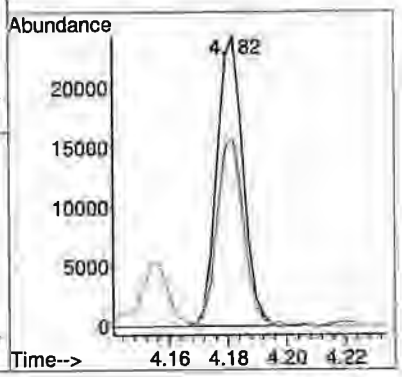


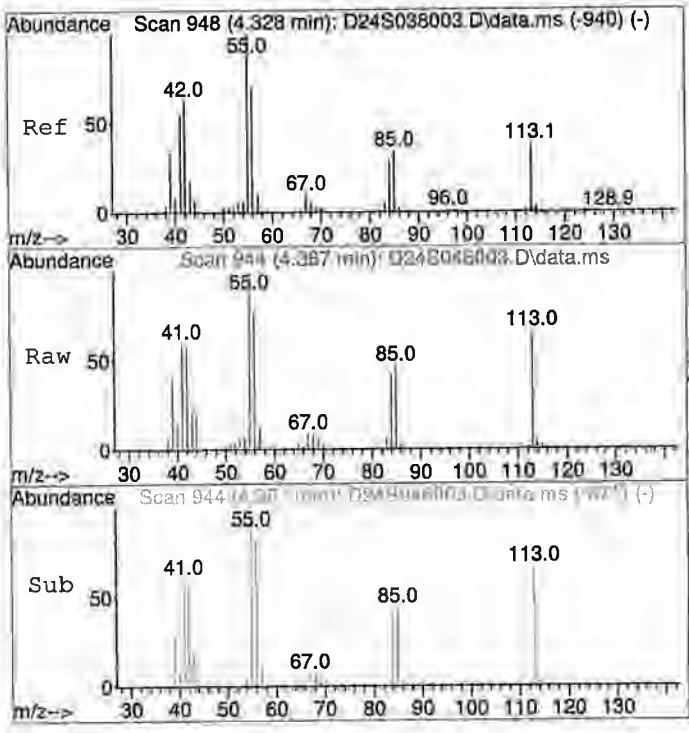


#8
2,6-Dichlorophenol
Concen: 4.49 ug/ml
RT: 4.182 min Scan# 872
Delta R.T. 0.000 min
Lab File: D24S046003.D
Acq: 15 Feb 2024 11:26 am

Tgt Ion:162 Resp: 15259

Ion	Ratio	Lower	Upper
162	100		
164	65.9	44.3	84.3
63	66.3	48.8	88.8

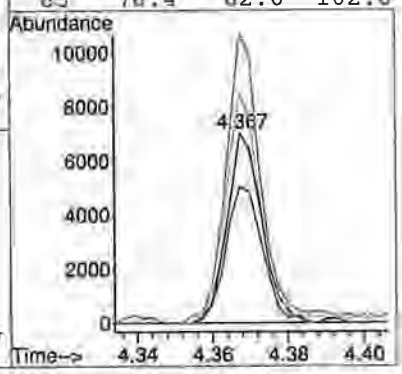


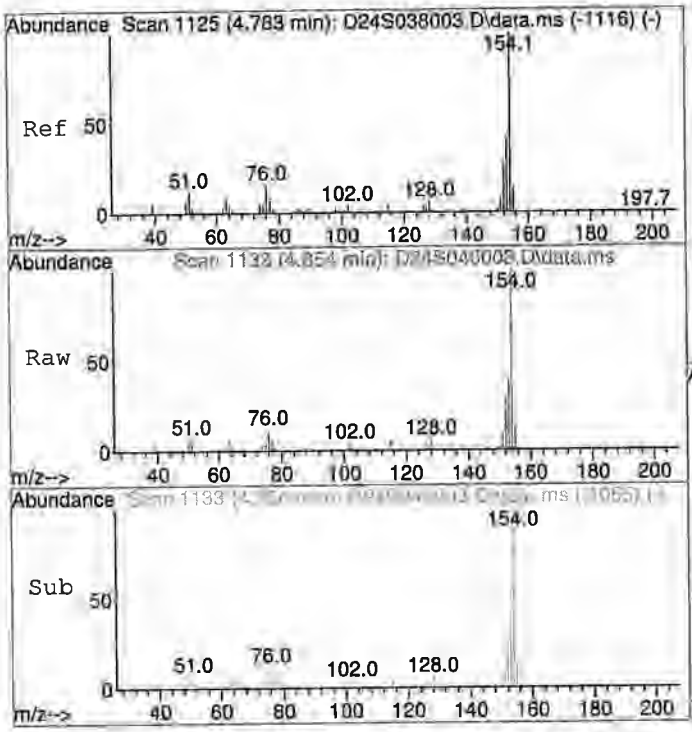


#9
Caprolactam
Concen: 5.30 ug/ml
RT: 4.367 min Scan# 944
Delta R.T. -0.013 min
Lab File: D24S046003.D
Acq: 15 Feb 2024 11:26 am

Tgt Ion:113 Resp: 4511

Ion	Ratio	Lower	Upper
113	100		
55	156.0	174.7	214.7#
56	124.9	126.5	166.5#
85	76.4	62.6	102.6

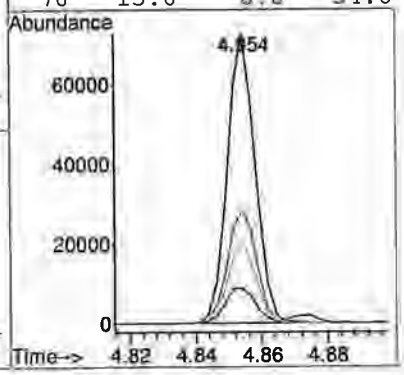


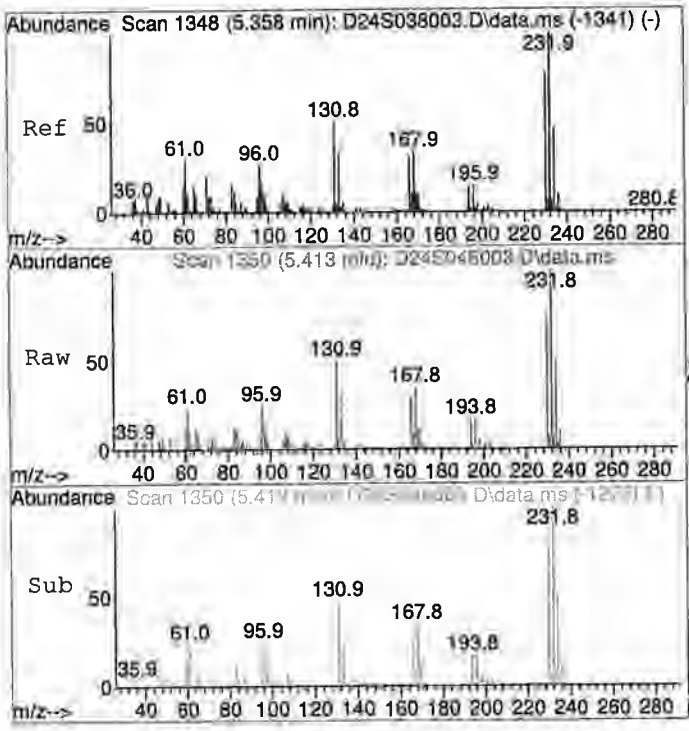


#13
Biphenyl
Concen: 4.05 ug/ml
RT: 4.854 min Scan# 1133
Delta R.T. 0.000 min
Lab File: D24S046003.D
Acq: 15 Feb 2024 11:26 am

Tgt Ion:154 Resp: 42549

Ion	Ratio	Lower	Upper
154	100		
153	40.5	20.2	60.2
152	28.3	8.0	48.0
76	13.6	0.0	34.8

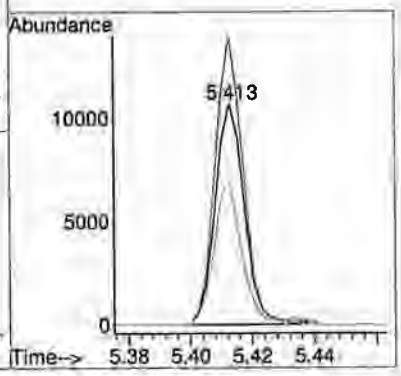


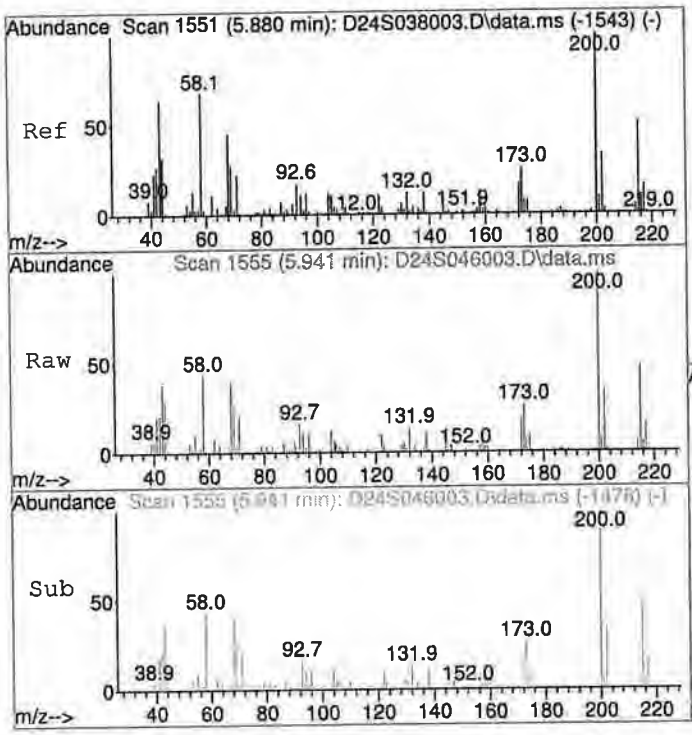


#14
2,3,4,6-Tetrachlorophenol
Concen: 4.18 ug/ml
RT: 5.413 min Scan# 1350
Delta R.T. 0.000 min
Lab File: D24S046003.D
Acq: 15 Feb 2024 11:26 am

Tgt Ion:230 Resp: 6953

Ion	Ratio	Lower	Upper
230	100		
232	125.6	106.1	146.1
131	61.6	39.6	79.6

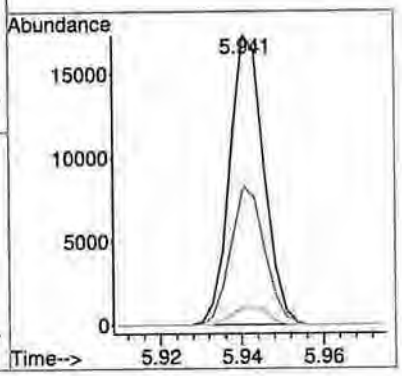




#15
Atrazine
Concen: 4.91 ug/ml
RT: 5.941 min Scan# 1555
Delta R.T. -0.003 min
Lab File: D24S046003.D
Acq: 15 Feb 2024 11:26 am

Tgt Ion:200 Resp: 9984

Ion	Ratio	Lower	Upper
200	100		
215	47.8	29.9	69.9
216	6.5	0.0	27.1



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\D021524\
Data File : D24S046004.D
Acq On : 15 Feb 2024 11:47 am
Operator : BGL
Sample : NCExtras 10 ppm 2307678 Inst : GCMSSV4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 15 14:33:58 2024
Quant Method : C:\msdchem\1\METHODS\NCD02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270STD SVMS4 N.C. apx2 extra compds PulseWool
QLast Update : Thu Feb 15 14:33:18 2024
Response via : Initial Calibration

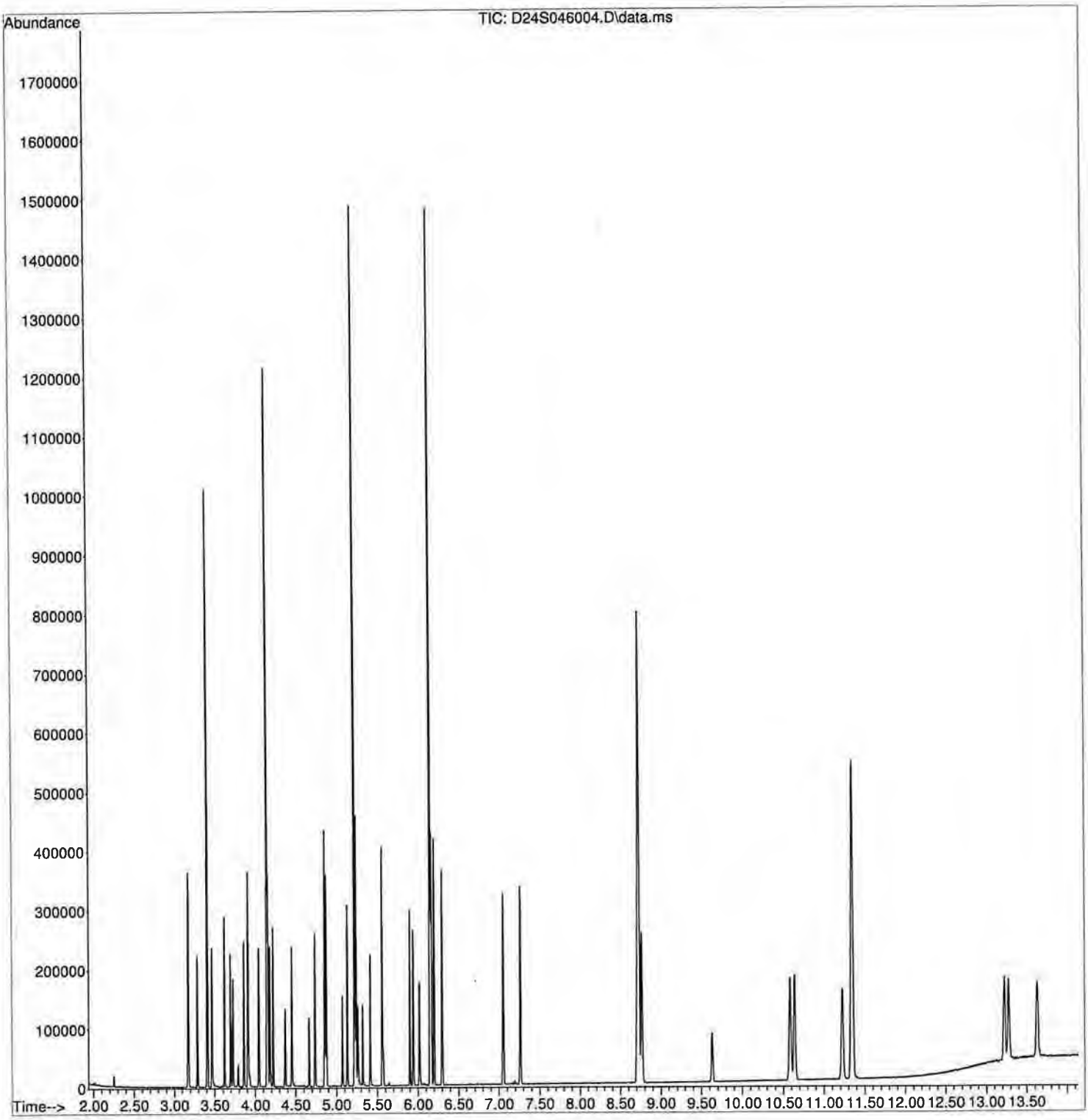
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-D4...	3.405	152	100691	40.00	ug/ml	0.00
6) NAPHTHALENE-d8 (2)	4.144	136	368966	40.00	ug/ml	0.00
10) ACENAPHTHENE-D10 (2)	5.217	164	212169	40.00	ug/ml	0.00
16) PHENANTHRENE-D10 (2)	6.149	188	381558	40.00	ug/ml	0.00
17) CHRYSENE-D12 (2)	8.724	240	319896	40.00	ug/ml	0.00
19) PERYLENE-D12 (2)	11.345	264	339032	40.00	ug/ml	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	0.000	112	0	0.00	ug/ml	
Spiked Amount 200.000	Range 30 - 130		Recovery = 0.00%#			
3) Phenol-d6	3.289	99	2254	11.69	ug/ml	0.00
Spiked Amount 200.000	Range 30 - 130		Recovery = 5.84%#			
7) Nitrobenzene-d5	3.696	82	4303	10.89	ug/ml	0.00
Spiked Amount 100.000	Range 30 - 130		Recovery = 10.89%#			
11) 2-Fluorobiphenyl	0.000	172	0	0.00	ug/ml	
Spiked Amount 100.000	Range 30 - 130		Recovery = 0.00%#			
12) 2,4,6-Tribromophenol	0.000	330	0	0.00	ug/ml	
Spiked Amount 200.000	Range 30 - 130		Recovery = 0.00%#			
18) Terphenyl-d14	0.000	244	0	0.00	ug/ml	
Spiked Amount 100.000	Range 30 - 130		Recovery = 0.00%#			
Target Compounds						Qvalue
4) Benzaldehyde	3.170	106	25958	9.37	ug/ml	99
5) Benzyl Alcohol	3.464	108	22301	9.66	ug/ml	99
8) 2,6-Dichlorophenol	4.182	162	31354	9.64	ug/ml	97
9) Caprolactam	4.370	113	9179	9.51	ug/ml#	79
13) Biphenyl	4.854	154	84588	9.75	ug/ml	99
14) 2,3,4,6-Tetrachlorophenol	5.413	230	13871	8.97	ug/ml	95
15) Atrazine	5.941	200	19467	9.29	ug/ml	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\D021524\
Data File : D24S046004.D
Acq On : 15 Feb 2024 11:47 am
Operator : BGL
Sample : NCExtras 10 ppm 2307678 Inst : GCMSSV4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 15 14:33:58 2024
Quant Method : C:\msdchem\1\METHODS\NCD02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270STD SVMS4 N.C. apx2 extra compds PulseWool
QLast Update : Thu Feb 15 14:33:18 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D021524\
Data File : D24S046005.D
Acq On : 15 Feb 2024 12:08 pm
Operator : BGL
Sample : NCExtras 20 ppm 2307679 Inst : GCMSSV4
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 15 14:35:25 2024
Quant Method : C:\msdchem\1\METHODS\NCD02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270STD SVMS4 N.C. apx2 extra compds PulseWool
QLast Update : Thu Feb 15 14:34:11 2024
Response via : Initial Calibration

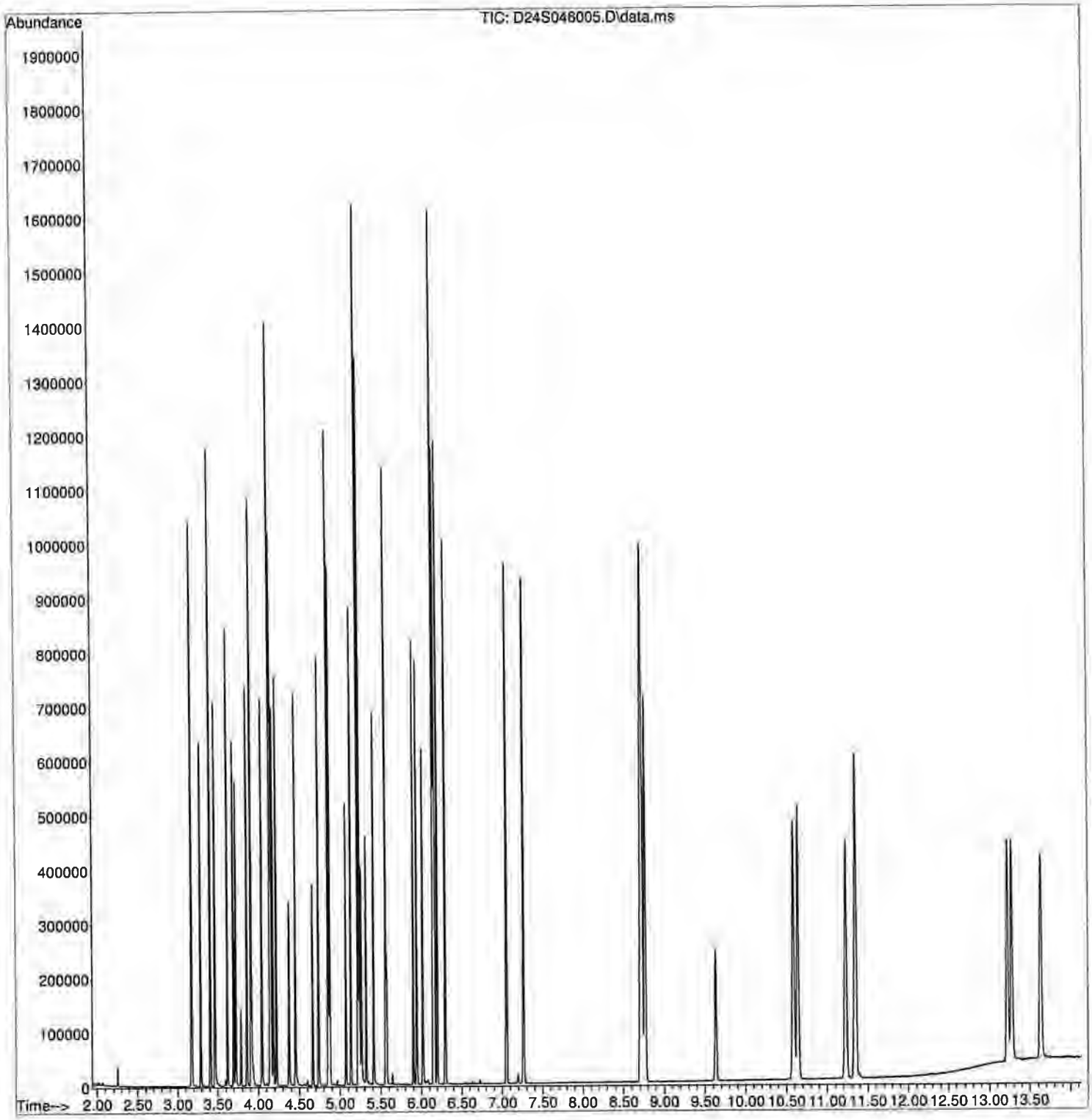
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-D4...	3.404	152	116704	40.00	ug/ml	0.00
6) NAPHTHALENE-d8 (2)	4.143	136	422704	40.00	ug/ml	0.00
10) ACENAPHTHENE-D10 (2)	5.220	164	242616	40.00	ug/ml	0.00
16) PHENANTHRENE-D10 (2)	6.149	188	434099	40.00	ug/ml	0.00
17) CHRYSENE-D12 (2)	8.726	240	360125	40.00	ug/ml	0.00
19) PERYLENE-D12 (2)	11.345	264	378936	40.00	ug/ml	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	0.000	112	0	0.00	ug/ml	
Spiked Amount 200.000	Range 30 - 130		Recovery =	0.00%#		
3) Phenol-d6	0.000	99	0d	0.00	ug/ml	
Spiked Amount 200.000	Range 30 - 130		Recovery =	0.00%#		
7) Nitrobenzene-d5	3.695	82	12551	26.54	ug/ml	0.00
Spiked Amount 100.000	Range 30 - 130		Recovery =	26.54%#		
11) 2-Fluorobiphenyl	0.000	172	0d	0.00	ug/ml	
Spiked Amount 100.000	Range 30 - 130		Recovery =	0.00%#		
12) 2,4,6-Tribromophenol	0.000	330	0	0.00	ug/ml	
Spiked Amount 200.000	Range 30 - 130		Recovery =	0.00%#		
18) Terphenyl-d14	7.393	244	68	1.81	ug/ml	0.00
Spiked Amount 100.000	Range 30 - 130		Recovery =	1.81%#		
Target Compounds						Qvalue
4) Benzaldehyde	3.170	106	74279	23.12	ug/ml	99
5) Benzyl Alcohol	3.464	108	64215	23.99	ug/ml	98
8) 2,6-Dichlorophenol	4.182	162	88410	23.72	ug/ml	97
9) Caprolactam	4.375	113	26480	23.94	ug/ml#	75
13) Biphenyl	4.854	154	236398	23.83	ug/ml	99
14) 2,3,4,6-Tetrachlorophenol	5.413	230	41390	23.40	ug/ml	97
15) Atrazine	5.943	200	56003	23.38	ug/ml	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D021524\
Data File : D24S046005.D
Acq On : 15 Feb 2024 12:08 pm
Operator : BGL
Sample : NCExtras 20 ppm 2307679 Inst : GCMSSV4
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 15 14:35:25 2024
Quant Method : C:\msdchem\1\METHODS\NCD02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270STD SVMS4 N.C. apx2 extra compds PulseWool
QLast Update : Thu Feb 15 14:34:11 2024
Response via : Initial Calibration

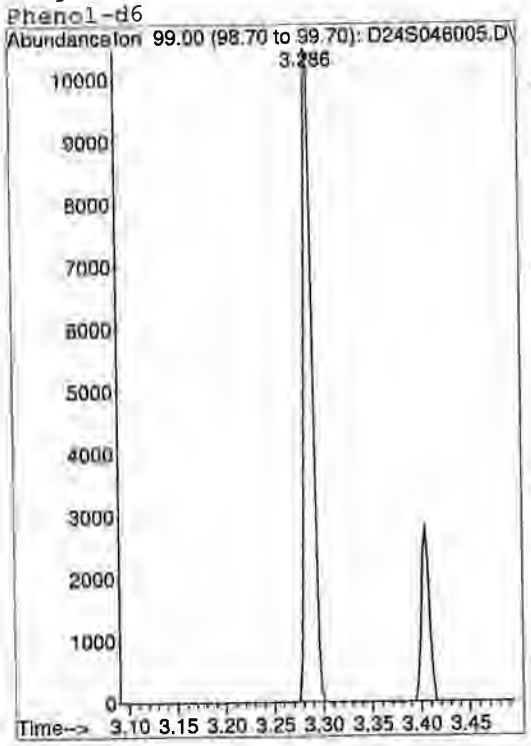


Manual Integration Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D021524\
Data File : D24S046005.D
Acq On : 15 Feb 2024 12:08 pm
Operator : BGL
Sample : NCExtras 20 ppm 2307679
Misc :

Quant Time : Thu Feb 15 14:35:25 2024
Quant Method : C:\msdchem\1\METHODS\NCD02154.M
QLast Update : Thu Feb 15 14:34:11 2024

Original Integration
Phenol-d6



Original Int. Results

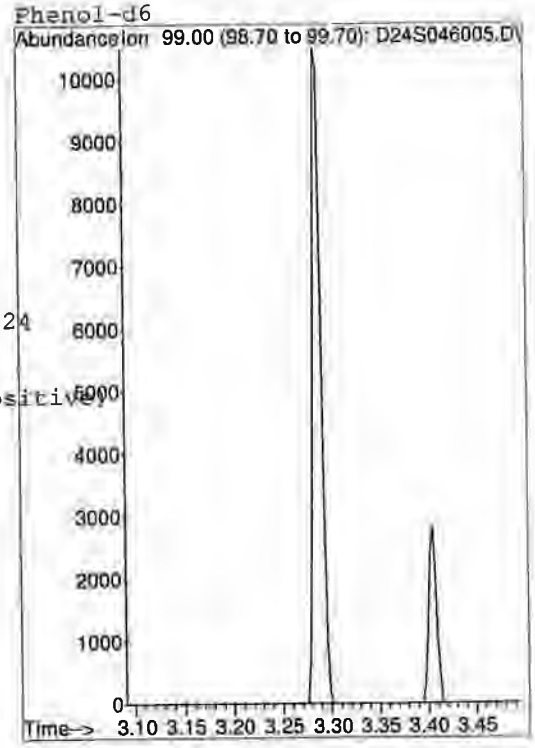
RT : 3.29
Area : 6420
Amount: 26.4939

Manual Int. Results

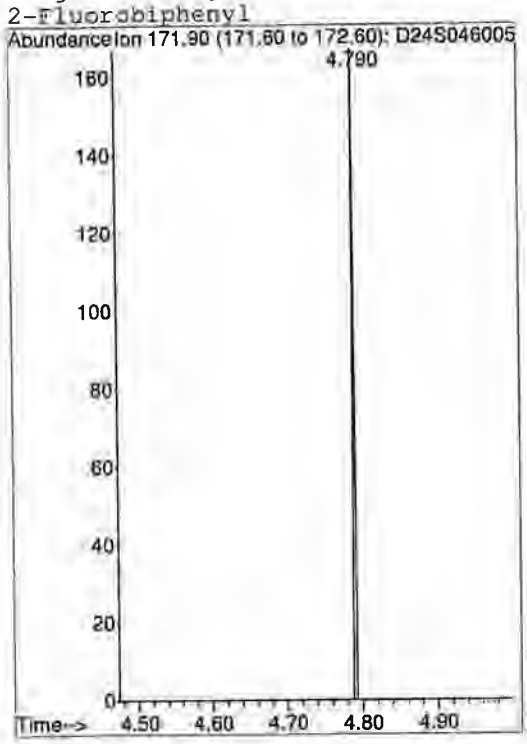
Thu Feb 15 14:35:25 2024

MIuser: jm4
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
Phenol-d6



Original Integration
2-Fluorobiphenyl



Original Int. Results

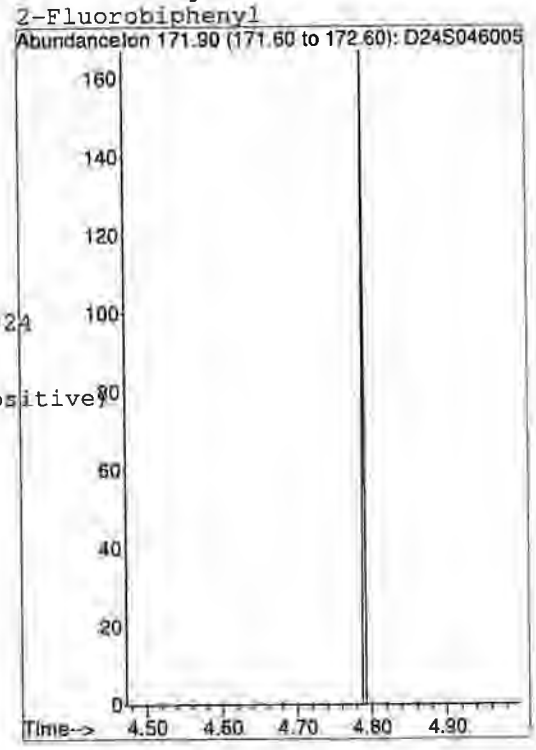
RT : 4.79
Area : 26
Amount: 3.67456

Manual Int. Results

Thu Feb 15 14:35:23 2024

MIuser: jm4
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
2-Fluorobiphenyl



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D021524\
Data File : D24S046006.D
Acq On : 15 Feb 2024 12:29 pm
Operator : BGL
Sample : NCExtras 50 ppm 2307680 Inst : GCMSSV4
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 15 14:36:30 2024
Quant Method : C:\msdchem\1\METHODS\NCD02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270STD SVMS4 N.C. apx2 extra compds PulseWool
QLast Update : Thu Feb 15 14:35:34 2024
Response via : Initial Calibration

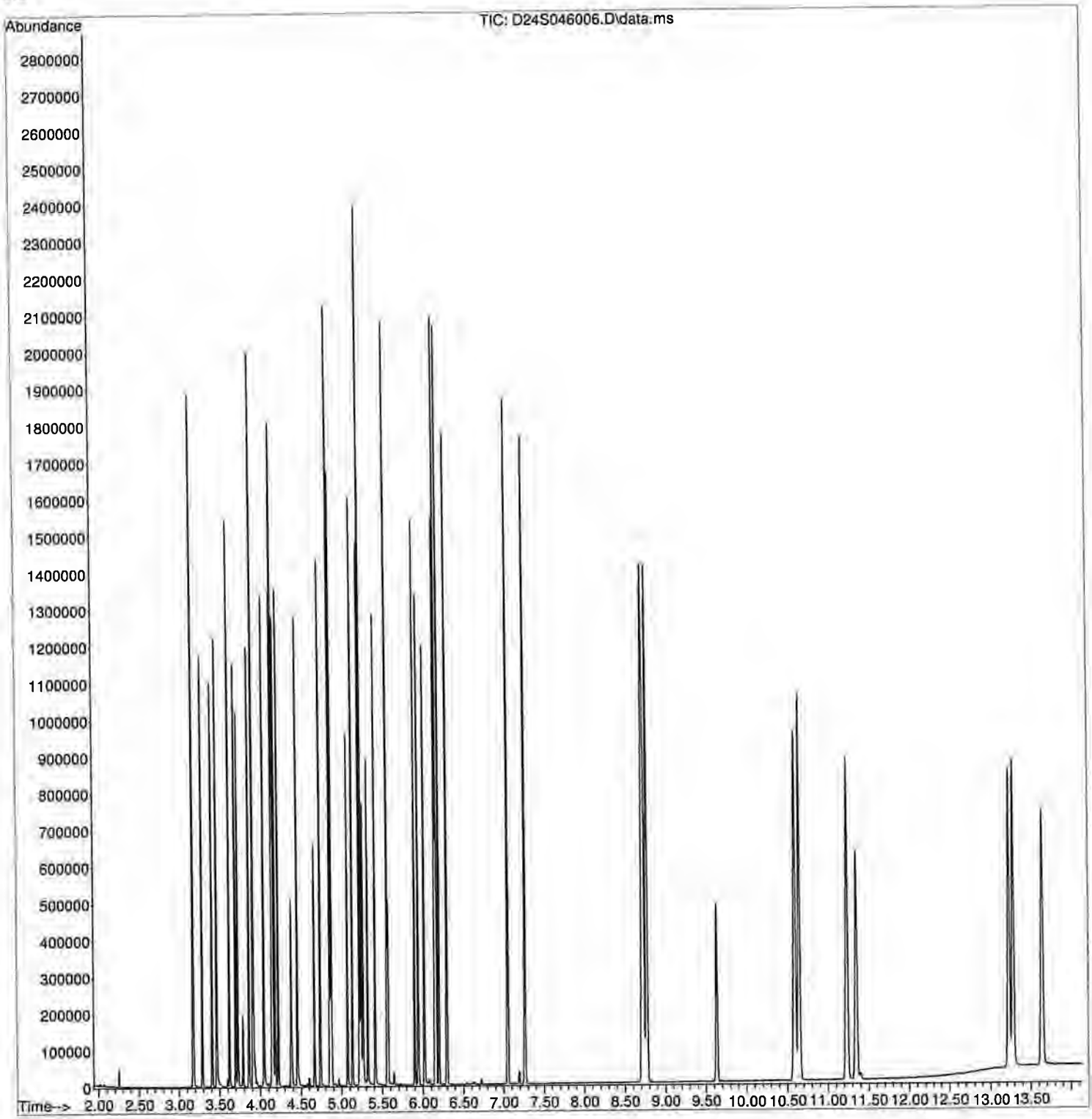
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-D4...	3.404	152	110365	40.00	ug/ml	0.00
6) NAPHTHALENE-d8 (2)	4.143	136	394767	40.00	ug/ml	0.00
10) ACENAPHTHENE-D10 (2)	5.220	164	227885	40.00	ug/ml	0.00
16) PHENANTHRENE-D10 (2)	6.149	188	411058	40.00	ug/ml	0.00
17) CHRYSENE-D12 (2)	8.729	240	375697	40.00	ug/ml	0.00
19) PERYLENE-D12 (2)	11.345	264	390236	40.00	ug/ml	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	0.000	112	0	0.00	ug/ml	
Spiked Amount 200.000	Range 30 - 130		Recovery =	0.00%#		
3) Phenol-d6	3.289	99	11823	51.59	ug/ml	0.00
Spiked Amount 200.000	Range 30 - 130		Recovery =	25.80%#		
7) Nitrobenzene-d5	3.695	82	22015	44.95	ug/ml	0.00
Spiked Amount 100.000	Range 30 - 130		Recovery =	44.95%		
11) 2-Fluorobiphenyl	0.000	172	0d	0.00	ug/ml	
Spiked Amount 100.000	Range 30 - 130		Recovery =	0.00%#		
12) 2,4,6-Tribromophenol	0.000	330	0	0.00	ug/ml	
Spiked Amount 200.000	Range 30 - 130		Recovery =	0.00%#		
18) Terphenyl-d14	7.400	244	55	2.57	ug/ml	0.00
Spiked Amount 100.000	Range 30 - 130		Recovery =	2.57%#		
Target Compounds						Qvalue
4) Benzaldehyde	3.170	106	141850	46.69	ug/ml	99
5) Benzyl Alcohol	3.466	108	117870	46.56	ug/ml	98
8) 2,6-Dichlorophenol	4.182	162	162019	46.55	ug/ml	96
9) Caprolactam	4.380	113	47942	46.40	ug/ml#	74
13) Biphenyl	4.854	154	428189	45.96	ug/ml	99
14) 2,3,4,6-Tetrachlorophenol	5.413	230	78946	47.53	ug/ml	99
15) Atrazine	5.943	200	103886	46.18	ug/ml	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D021524\
Data File : D24S046006.D
Acq On : 15 Feb 2024 12:29 pm
Operator : BGL
Sample : NCExtras 50 ppm 2307680 Inst : GCMSSV4
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 15 14:36:30 2024
Quant Method : C:\msdchem\1\METHODS\NCD02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270STD SVMS4 N.C. apx2 extra compds PulseWool
QLast Update : Thu Feb 15 14:35:34 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D021524\
Data File : D24S046007.D
Acq On : 15 Feb 2024 12:50 pm
Operator : BGL
Sample : NCExtras 80 ppm 2307681 Inst : GCMSSV4
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 16 06:57:41 2024
Quant Method : C:\msdchem\1\METHODS\NCD02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270STD SVMS4 N.C. apx2 extra compds PulseWool
QLast Update : Fri Feb 16 06:57:19 2024
Response via : Initial Calibration

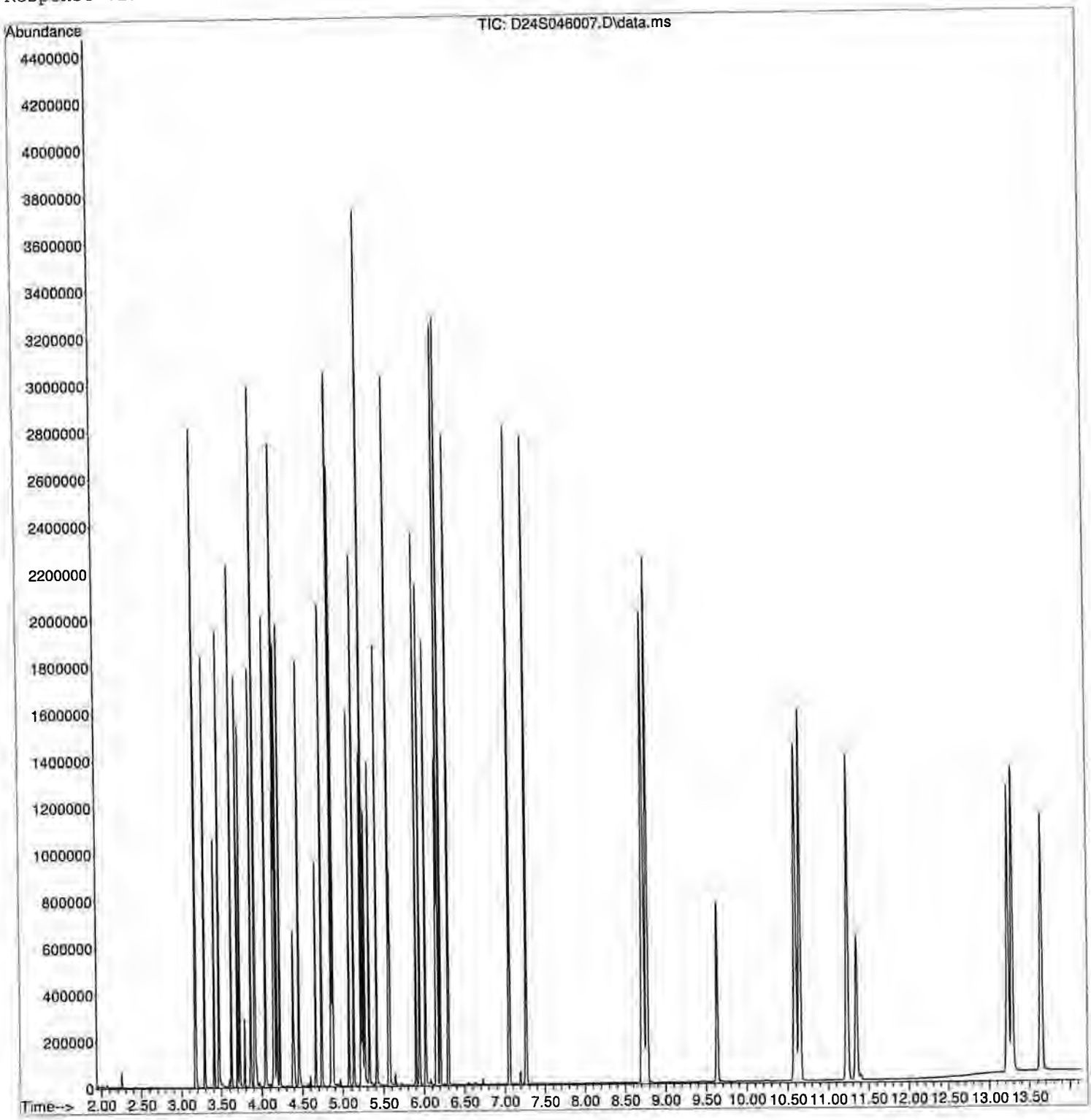
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-D4...	3.404	152	105402	40.00	ug/ml	0.00
6) NAPHTHALENE-d8 (2)	4.143	136	374221	40.00	ug/ml	0.00
10) ACENAPHTHENE-D10 (2)	5.220	164	216000	40.00	ug/ml	0.00
16) PHENANTHRENE-D10 (2)	6.152	188	395875	40.00	ug/ml	0.00
17) CHRYSENE-D12 (2)	8.729	240	374011	40.00	ug/ml	0.00
19) PERYLENE-D12 (2)	11.348	264	386533	40.00	ug/ml	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	0.000	112	0	0.00	ug/ml	
Spiked Amount 200.000	Range 30 - 130		Recovery =	0.00%#		
3) Phenol-d6	3.289	99	18401	83.20	ug/ml	0.00
Spiked Amount 200.000	Range 30 - 130		Recovery =	41.60%		
7) Nitrobenzene-d5	3.695	82	33277	73.53	ug/ml	0.00
Spiked Amount 100.000	Range 30 - 130		Recovery =	73.53%		
11) 2-Fluorobiphenyl	4.738	172	77	12.22	ug/ml	0.00
Spiked Amount 100.000	Range 30 - 130		Recovery =	12.22%#		
12) 2,4,6-Tribromophenol	0.000	330	0	0.00	ug/ml	
Spiked Amount 200.000	Range 30 - 130		Recovery =	0.00%#		
18) Terphenyl-d14	7.401	244	34	2.34	ug/ml	0.00
Spiked Amount 100.000	Range 30 - 130		Recovery =	2.34%#		
Target Compounds						Qvalue
4) Benzaldehyde	3.173	106	218953	75.47	ug/ml	99
5) Benzyl Alcohol	3.466	108	180601	74.70	ug/ml	97
8) 2,6-Dichlorophenol	4.182	162	240833	73.00	ug/ml	99
9) Caprolactam	4.385	113	72570	74.10	ug/ml	98
13) Biphenyl	4.857	154	637304	72.17	ug/ml	99
14) 2,3,4,6-Tetrachlorophenol	5.413	230	120344	76.43	ug/ml	99
15) Atrazine	5.946	200	159841	74.96	ug/ml	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D021524\
Data File : D24S046007.D
Acq On : 15 Feb 2024 12:50 pm
Operator : BGL
Sample : NCExtras 80 ppm 2307681 Inst : GCMSSV4
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 16 06:57:41 2024
Quant Method : C:\msdchem\1\METHODS\NCD02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270STD SVMS4 N.C. apx2 extra compds PulseWool
QLast Update : Fri Feb 16 06:57:19 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D021524\
Data File : D24S046008.D
Acq On : 15 Feb 2024 1:11 pm
Operator : BGL
Sample : NCExtras 100 ppm 2307682 Inst : GCMSSV4
Misc :
ALS Vial : 8 Sample Multiplier: 1

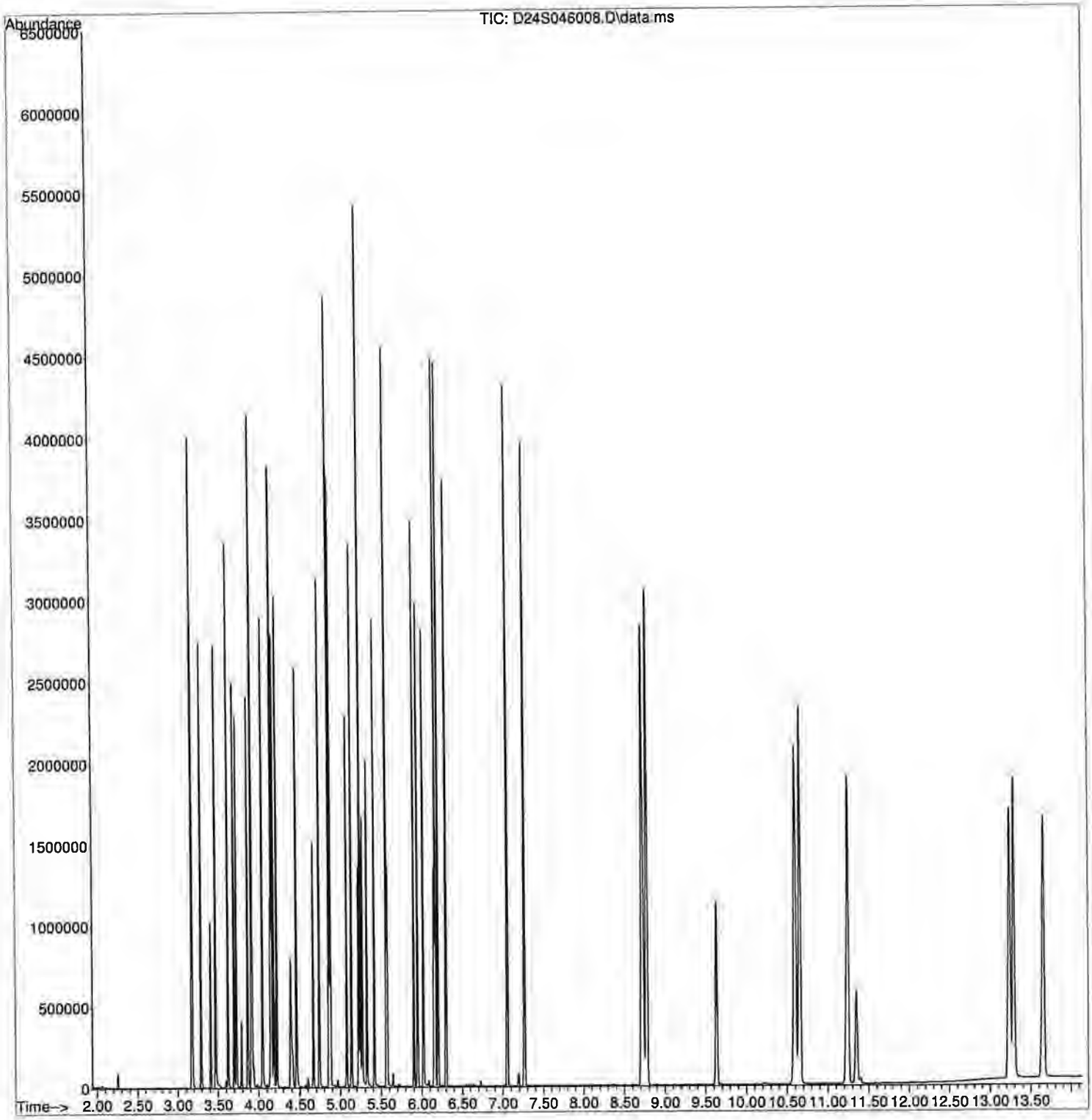
Quant Time: Feb 16 06:58:34 2024
Quant Method : C:\msdchem\1\METHODS\NCD02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270STD SVMS4 N.C. apx2 extra compds PulseWool
QLast Update : Fri Feb 16 06:57:57 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-D4...	3.404	152	101859	40.00	ug/ml	0.00
6) NAPHTHALENE-d8 (2)	4.143	136	349723	40.00	ug/ml	0.00
10) ACENAPHTHENE-D10 (2)	5.220	164	201883	40.00	ug/ml	0.00
16) PHENANTHRENE-D10 (2)	6.152	188	369482	40.00	ug/ml	0.00
17) CHRYSENE-D12 (2)	8.732	240	351434	40.00	ug/ml	0.00
19) PERYLENE-D12 (2)	11.350	264	357745	40.00	ug/ml	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	0.000	112	0	0.00	ug/ml	
Spiked Amount 200.000	Range 30 - 130		Recovery =	0.00%#		
3) Phenol-d6	3.289	99	27555	127.64	ug/ml	0.00
Spiked Amount 200.000	Range 30 - 130		Recovery =	63.82%		
7) Nitrobenzene-d5	3.695	82	48683	117.00	ug/ml	0.00
Spiked Amount 100.000	Range 30 - 130		Recovery =	117.00%		
11) 2-Fluorobiphenyl	4.736	172	184	54.22	ug/ml	0.00
Spiked Amount 100.000	Range 30 - 130		Recovery =	54.22%		
12) 2,4,6-Tribromophenol	0.000	330	0	0.00	ug/ml	
Spiked Amount 200.000	Range 30 - 130		Recovery =	0.00%#		
18) Terphenyl-d14	7.400	244	75	7.24	ug/ml	0.00
Spiked Amount 100.000	Range 30 - 130		Recovery =	7.24%#		
Target Compounds						Qvalue
4) Benzaldehyde	3.173	106	331101	118.09	ug/ml	99
5) Benzyl Alcohol	3.469	108	266642	114.13	ug/ml	98
8) 2,6-Dichlorophenol	4.182	162	355018	115.15	ug/ml	99
9) Caprolactam	4.391	113	104974	114.69	ug/ml	99
13) Biphenyl	4.857	154	946090	114.62	ug/ml	99
14) 2,3,4,6-Tetrachlorophenol	5.415	230	181310	123.21	ug/ml	99
15) Atrazine	5.948	200	238833	119.83	ug/ml	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\D021524\
Data File : D24S046008.D
Acq On : 15 Feb 2024 1:11 pm
Operator : BGL
Sample : NCExtras 100 ppm 2307682 Inst : GCMSSV4
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 16 06:58:34 2024
Quant Method : C:\msdchem\1\METHODS\NCD02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270STD SVMS4 N.C. apx2 extra compds PulseWool
QLast Update : Fri Feb 16 06:57:57 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D021524\
Data File : D24S046009.D
Acq On : 15 Feb 2024 1:32 pm
Operator : BGL
Sample : NCExtrasICV 50 ppm 24A0092 Inst : GCMSSV4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 16 07:04:39 2024
Quant Method : C:\msdchem\1\METHODS\NCD02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270STD SVMS4 N.C. apx2 extra compds PulseWool
QLast Update : Fri Feb 16 06:58:50 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-D4...	3.405	152	104657	40.00	ug/ml	0.00
6) NAPHTHALENE-d8 (2)	4.144	136	362772	40.00	ug/ml	0.00
10) ACENAPHTHENE-D10 (2)	5.220	164	205571	40.00	ug/ml	0.00
16) PHENANTHRENE-D10 (2)	6.152	188	366018	40.00	ug/ml	0.00
17) CHRYSENE-D12 (2)	8.729	240	304661	40.00	ug/ml	0.00
19) PERYLENE-D12 (2)	11.345	264	330108	40.00	ug/ml	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	0.000	112	0	0.00	ug/ml	
Spiked Amount 200.000	Range 30 - 130		Recovery =	0.00%#		
3) Phenol-d6	3.289	99	12915	0.00	ug/ml	0.00
Spiked Amount 200.000	Range 30 - 130		Recovery =	0.00%#		
7) Nitrobenzene-d5	3.696	82	22476	0.00	ug/ml	0.00
Spiked Amount 100.000	Range 30 - 130		Recovery =	0.00%#		
11) 2-Fluorobiphenyl	4.759	172	190	0.00	ug/ml	0.03
Spiked Amount 100.000	Range 30 - 130		Recovery =	0.00%#		
12) 2,4,6-Tribromophenol	0.000	330	0	0.00	ug/ml	
Spiked Amount 200.000	Range 30 - 130		Recovery =	0.00%#		
18) Terphenyl-d14	7.393	244	212	0.00	ug/ml	0.00
Spiked Amount 100.000	Range 30 - 130		Recovery =	0.00%#		
Target Compounds						Qvalue
4) Benzaldehyde	3.170	106	87135	30.25	ug/ml	98
5) Benzyl Alcohol	3.464	108	123832	51.59	ug/ml	99
8) 2,6-Dichlorophenol	4.182	162	161359	50.45	ug/ml	92
9) Caprolactam	4.388	113	47380	49.91	ug/ml	98
13) Biphenyl	4.857	154	419968	49.96	ug/ml	100
14) 2,3,4,6-Tetrachlorophenol	5.413	230	80256	53.56	ug/ml	99
15) Atrazine	5.946	200	102839	50.67	ug/ml	99

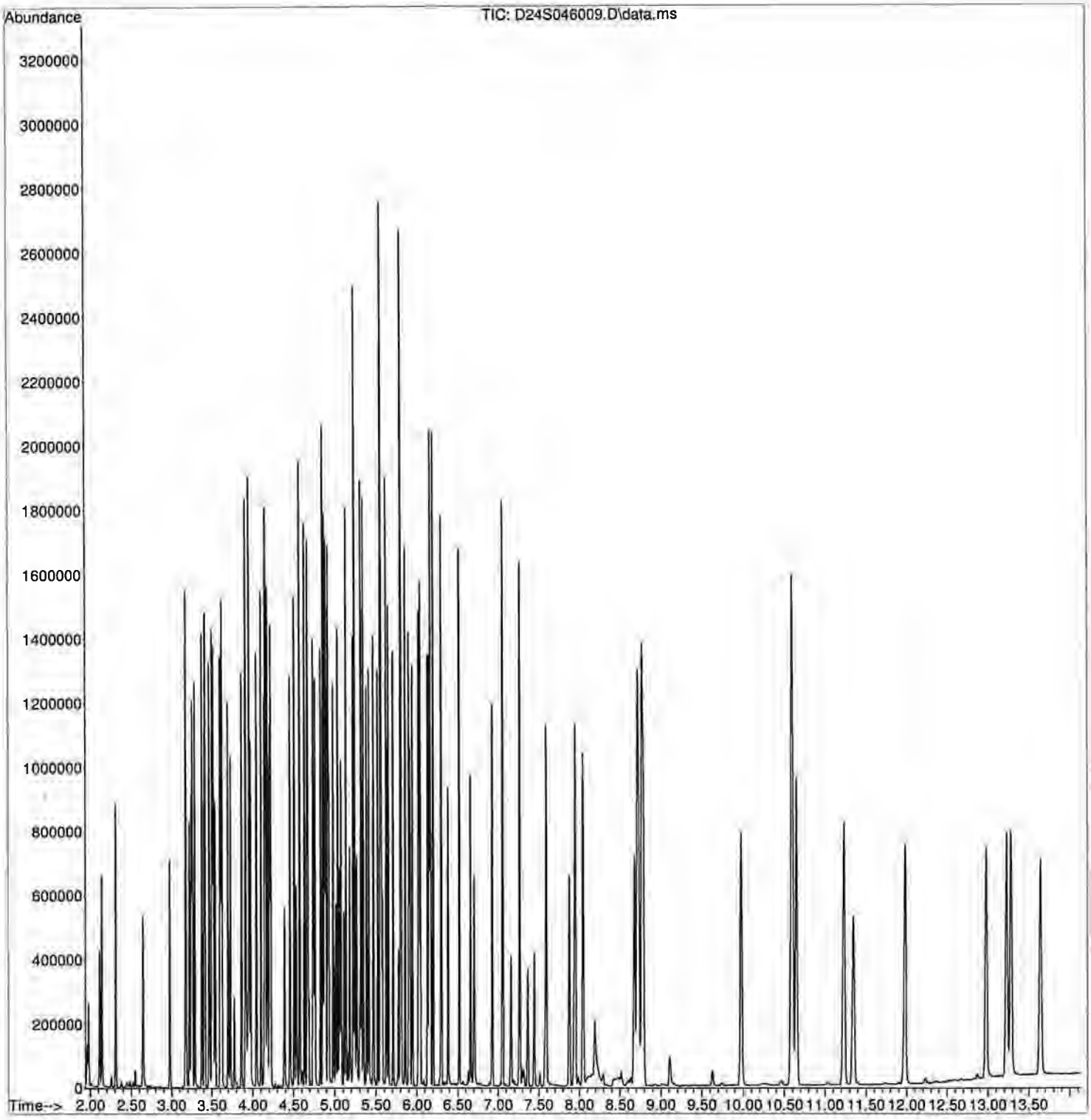
(#) = qualifier out of range (m) = manual integration (+) = signals summed

~~70~~ 130 %
60% V34

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D021524\
Data File : D24S046009.D
Acq On : 15 Feb 2024 1:32 pm
Operator : BGL
Sample : NCExtrasICV 50 ppm 24A0092 Inst : GCMSSV4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 16 07:04:39 2024
Quant Method : C:\msdchem\1\METHODS\NCD02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270STD SVMS4 N.C. apx2 extra compds PulseWool
QLast Update : Fri Feb 16 06:58:50 2024
Response via : Initial Calibration



DATA ANALYSIS PARAMETERS

Method Name: C:\msdchem\1\METHODS\BND02154.M

Percent Report Settings

Sort By: Retention Time

Output Destination
    Screen: No
    Printer: Yes
    File: No

Integration Events: Meth Default

Generate Report During Run Method: No

Signal Correlation Window: 0.020

Qualitative Report Settings

Peak Location of Unknown: Apex

Library to Search	Minimum Quality
C:\Database\NIST05.L	0

Integration Events: Meth Default

Report Type: Summary

Output Destination
    Screen: Yes
    Printer: No
    File: No

Generate Report During Run Method: No

Quantitative Report Settings

Report Type: Summary

Output Destination
    Screen: No
    Printer: No
    File: No

Generate Report During Run Method: Yes

8270/625 SVMS4 (d)C+D (split /WOOL
Calibration Last Updated: Fri Feb 16 08:35:50 2024

Reference Window: 0.30 Minutes
Non-Reference Window: 0.30 Minutes
Correlation Window: 0.10 minutes
Default Multiplier: 1.00

Default Sample Concentration: 0.00

Compound Information

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1) 1,4-Dichlorobenzene-D4 (ISTD TR)

Ret. Time 3.404 min., Extract & Integrate from 3.063 to 3.700 min.

Signal	Rel Resp.	Pct. Unc.(abs)	Integration
Tgt 152.00			*** METH DEFAULT ***
Q1 150.00	175.70	20.0	*** METH DEFAULT ***
Q2 115.00	58.30	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		40.000	142491
5		40.000	155002
10		40.000	119688
20		40.000	119344
50		40.000	94037
80		40.000	87366
100		40.000	91040
120		40.000	83197
160		40.000	95050

Qualifier Peak Analysis ON ISTD conc: 40.000 ug/ml
Curve Fit: Avg. RF

---

2) 2-Fluorophenol ( )

Ret. Time 2.717 min., Extract & Integrate from 2.537 to 2.908 min.

Signal	Rel Resp.	Pct. Unc.(abs)	Integration
Tgt 112.00			*** METH DEFAULT ***
Q1 64.00	57.10	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		not used for this compound	
5		10.000	31005
10		20.000	52529
20		40.000	113668
50		100.000	255657
80		160.000	370685
100		200.000	438276
120		240.000	525702
160		320.000	761417

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

3) Phenol-d6 ( )

Ret. Time 3.173 min., Extract & Integrate from 2.964 to 3.409 min.

Signal	Rel Resp.	Pct. Unc.(abs)	Integration
Tgt 99.00			*** METH DEFAULT ***
Q1 71.10	41.20	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		not used for this compound	
5		10.000	52525
10		20.000	85949
20		40.000	182330
50		100.000	402490
80		160.000	577468
100		200.000	688637
120		240.000	813238
160		320.000	1170150

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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4) N-Nitrosodimethylamine ( )

Ret. Time 2.102 min., Extract & Integrate from 1.961 to 2.234 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	42.00			*** METH DEFAULT ***
Q1	74.00	106.20	20.0	*** METH DEFAULT ***
Q2	43.00	38.30	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		not used for this compound	
5		5.000	13208
10		10.000	22079
20		20.000	47217
50		50.000	104817
80		80.000	157325
100		100.000	188721
120		120.000	235697
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

5) Pyridine ( )

Ret. Time 2.130 min., Extract & Integrate from 1.820 to 2.477 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	79.00			*** METH DEFAULT ***
Q1	52.00	58.00	20.0	*** METH DEFAULT ***
Q2	51.00	35.40	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		not used for this compound	
5		5.000	20147
10		10.000	36971
20		20.000	80863
50		50.000	184346
80		80.000	274108
100		100.000	338237
120		120.000	413401
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

6) Aniline ( )

Ret. Time 3.222 min., Extract & Integrate from 2.872 to 3.572 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	66.00			*** METH DEFAULT ***
Q1	93.00	256.40	20.0	*** METH DEFAULT ***
Q2	65.00	53.20	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		2.000	5048
5		5.000	14449
10		10.000	23111
20		20.000	46459
50		50.000	91678
80		80.000	124070
100		100.000	151981
120		120.000	172264
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

7) Phenol ( )

Ret. Time 3.180 min., Extract & Integrate from 2.840 to 3.530 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	94.00			*** METH DEFAULT ***
Q1	65.00	33.50	20.0	*** METH DEFAULT ***
Q2	66.00	54.10	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		2.000	11166
5		5.000	30147
10		10.000	49485
20		20.000	104654
50		50.000	229014
80		80.000	327502
100		100.000	386938
120		120.000	456082
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

8) Bis(2-chloroethyl)ether ( )

Ret. Time 3.245 min., Extract & Integrate from 2.905 to 3.595 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	63.00			*** METH DEFAULT ***
Q1	93.00	130.30	20.0	*** METH DEFAULT ***
Q2	95.00	41.60	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		not used for this compound	
5		5.000	16424
10		10.000	25883
20		20.000	53755
50		50.000	115768
80		80.000	165238
100		100.000	194976
120		120.000	231557
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

9) 2-Chlorophenol ( )

Ret. Time 3.289 min., Extract & Integrate from 2.938 to 3.639 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	128.00			*** METH DEFAULT ***
Q1	64.00	47.70	20.0	*** METH DEFAULT ***
Q2	130.00	32.50	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		not used for this compound	
5		5.000	23574
10		10.000	38097
20		20.000	80123
50		50.000	173870
80		80.000	250711
100		100.000	296955
120		120.000	350699
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

10) 1,3-Dichlorobenzene ( )

Ret. Time 3.376 min., Extract & Integrate from 3.126 to 3.496 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	145.90			*** METH DEFAULT ***
Q1	147.90	65.60	20.0	*** METH DEFAULT ***
Q2	111.00	40.80	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		not used for this compound	
5		5.000	27909
10		10.000	44258
20		20.000	91489
50		50.000	197426
80		80.000	282938
100		100.000	334854
120		120.000	407173
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

11) 1,4-Dichlorobenzene ( )

Ret. Time 3.415 min., Extract & Integrate from 3.345 to 3.495 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	145.90			*** METH DEFAULT ***
Q1	147.90	66.30	20.0	*** METH DEFAULT ***
Q2	111.00	39.40	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		not used for this compound	
5		5.000	27547
10		10.000	44777
20		20.000	92123
50		50.000	198584
80		80.000	283265
100		100.000	334178
120		120.000	407146
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

12) 1,2-Dichlorobenzene ( )

Ret. Time 3.500 min., Extract & Integrate from 3.350 to 3.630 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	145.90			*** METH DEFAULT ***
Q1	147.90	66.20	20.0	*** METH DEFAULT ***
Q2	111.00	42.00	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		not used for this compound	
5		5.000	25860
10		10.000	42587
20		20.000	86847
50		50.000	184846
80		80.000	260494
100		100.000	308416
120		120.000	370945
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

13) 2- METHYLPHENOL ( )

Ret. Time 3.515 min., Extract & Integrate from 3.455 to 3.735 min.

Signal	Rel Resp.	Pct. Unc.(abs)	Integration
Tgt 108.00			*** METH DEFAULT ***
Q1 107.00	87.90	20.0	*** METH DEFAULT ***
Q2 77.00	47.80	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		not used for this compound	
5		5.000	21147
10		10.000	34844
20		20.000	70035
50		50.000	149345
80		80.000	217105
100		100.000	256061
120		120.000	289120
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

14) Bis(2-Chloroisopropyl)ether ( )

Ret. Time 3.538 min., Extract & Integrate from 3.238 to 3.834 min.

Signal	Rel Resp.	Pct. Unc.(abs)	Integration
Tgt 45.00			*** METH DEFAULT ***
Q1 77.00	15.30	20.0	*** METH DEFAULT ***
Q2 121.00	27.60	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		not used for this compound	
5		5.000	22340
10		10.000	36111
20		20.000	72440
50		50.000	151795
80		80.000	214305
100		100.000	252193
120		120.000	293755
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

15) Acetophenone ( )

Ret. Time 3.623 min., Extract & Integrate from 3.099 to 4.063 min.

Signal	Rel Resp.	Pct. Unc.(abs)	Integration
Tgt 105.00			*** METH DEFAULT ***
Q1 77.00	84.60	20.0	*** METH DEFAULT ***
Q2 120.00	20.90	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		not used for this compound	
5		5.000	34725
10		10.000	54676
20		20.000	111256
50		50.000	235293
80		80.000	333017
100		100.000	392992
120		120.000	459733
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

16) 3/4- METHYLPHENOL ( )

Ret. Time 3.610 min., Extract & Integrate from 3.520 to 3.830 min.

Signal	Rel Resp.	Pct. Unc.(abs)	Integration
Tgt 107.00			*** METH DEFAULT ***

Q1	108.00	88.50	20.0	*** METH DEFAULT ***
Q2	77.00	38.30	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		4.000	16778
5		10.000	48534
10		20.000	79252
20		40.000	163757
50		100.000	348406
80		160.000	491210
100		200.000	577196
120		240.000	681604
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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17) N-Nitroso-Di-N-Propylamine ( )

Ret. Time 3.615 min., Extract & Integrate from 3.296 to 3.716 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	70.00			*** METH DEFAULT ***
Q1	42.00	80.60	20.0	*** METH DEFAULT ***
Q2	101.00	9.50	20.0	*** METH DEFAULT ***
Q3	130.10	19.20	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		not used for this compound	
5		5.000	18391
10		10.000	29427
20		20.000	59560
50		50.000	125182
80		80.000	177091
100		100.000	208876
120		120.000	243484
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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18) Hexachloroethane ( )

Ret. Time 3.695 min., Extract & Integrate from 3.445 to 3.945 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	116.90			*** METH DEFAULT ***
Q1	200.80	99.70	20.0	*** METH DEFAULT ***
Q2	198.80	62.00	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		2.000	4035
5		5.000	10692
10		10.000	16973
20		20.000	35259
50		50.000	73999
80		80.000	104545
100		100.000	124219
120		120.000	150983
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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19) NAPHTHALENE-d8 (ISTD TR)

Ret. Time 4.143 min., Extract & Integrate from 3.838 to 4.362 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	136.10			*** METH DEFAULT ***
Q1	68.00	5.30	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		40.000	515700
5		40.000	570158
10		40.000	443236
20		40.000	426043
50		40.000	341847
80		40.000	313007
100		40.000	322996
120		40.000	285284
160		40.000	334904

Qualifier Peak Analysis ON ISTD conc: 40.000 ug/ml
Curve Fit: Avg. RF

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20) Nitrobenzene-d5 ( )

Ret. Time 3.713 min., Extract & Integrate from 3.463 to 3.963 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	82.00			*** METH DEFAULT ***
Q1	128.00	40.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		not used for this compound	
5		5.000	23635
10		10.000	37997
20		20.000	80215
50		50.000	170408
80		80.000	246269
100		100.000	290294
120		120.000	342302
160		160.000	484504

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

21) NITROBENZENE ( )

Ret. Time 3.726 min., Extract & Integrate from 3.476 to 3.976 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	77.00			*** METH DEFAULT ***
Q1	123.00	42.20	20.0	*** METH DEFAULT ***
Q2	65.00	14.30	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		not used for this compound	
5		5.000	26087
10		10.000	42493
20		20.000	89655
50		50.000	188431
80		80.000	267287
100		100.000	314728
120		120.000	368355
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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22) Isophorone ( )

Ret. Time 3.860 min., Extract & Integrate from 3.740 to 4.080 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	82.00			*** METH DEFAULT ***
Q1	95.10	7.20	20.0	*** METH DEFAULT ***
Q2	138.10	16.00	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		not used for this compound	

5	5.000	44751
10	10.000	72022
20	20.000	146133
50	50.000	310609
80	80.000	443505
100	100.000	526113
120	120.000	617619
160	not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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23) 2-Nitrophenol ( )

Ret. Time 3.909 min., Extract & Integrate from 3.659 to 4.159 min.

Signal	Rel Resp.	Pct. Unc.(abs)	Integration
Tgt 139.00			*** METH DEFAULT ***
Q1 109.00	31.40	20.0	*** METH DEFAULT ***
Q2 65.00	73.90	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		not used for this compound	
5		5.000	10500
10		10.000	17358
20		20.000	37982
50		50.000	88660
80		80.000	127564
100		100.000	154767
120		120.000	183710
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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24) 2,4-Dimethylphenol ( )

Ret. Time 3.914 min., Extract & Integrate from 3.664 to 4.204 min.

Signal	Rel Resp.	Pct. Unc.(abs)	Integration
Tgt 122.00			*** METH DEFAULT ***
Q1 107.00	111.40	20.0	*** METH DEFAULT ***
Q2 121.00	53.10	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		not used for this compound	
5		5.000	21974
10		10.000	35544
20		20.000	71144
50		50.000	155550
80		80.000	220885
100		100.000	257369
120		120.000	305610
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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25) Bis(2-Chloroethoxy)methane ( )

Ret. Time 3.973 min., Extract & Integrate from 3.723 to 4.223 min.

Signal	Rel Resp.	Pct. Unc.(abs)	Integration
Tgt 93.00			*** METH DEFAULT ***
Q1 95.00	32.30	20.0	*** METH DEFAULT ***
Q2 123.00	10.00	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		not used for this compound	
5		5.000	25351
10		10.000	40510

20	20.000	82148
50	50.000	174928
80	80.000	248585
100	100.000	296354
120	120.000	346341
160	not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

26) Benzoic Acid ( )

Ret. Time 3.955 min., Extract & Integrate from 3.705 to 4.285 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	122.00			*** METH DEFAULT ***
Q1	105.00	147.20	20.0	*** METH DEFAULT ***
Q2	77.00	109.20	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		not used for this compound	
5		not used for this compound	
10		10.000	16352
20		20.000	39219
50		50.000	98368
80		80.000	146132
100		100.000	180343
120		120.000	213078
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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27) 2,4-Dichlorophenol ( )

Ret. Time 4.045 min., Extract & Integrate from 3.795 to 4.245 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	161.90			*** METH DEFAULT ***
Q1	163.90	64.90	20.0	*** METH DEFAULT ***
Q2	98.00	33.40	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		not used for this compound	
5		5.000	20967
10		10.000	34265
20		20.000	70288
50		50.000	151764
80		80.000	219670
100		100.000	259783
120		120.000	306765
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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28) 1,2,4-Trichlorobenzene ( )

Ret. Time 4.102 min., Extract & Integrate from 3.852 to 4.352 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	179.90			*** METH DEFAULT ***
Q1	181.90	97.70	20.0	*** METH DEFAULT ***
Q2	144.90	29.10	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		not used for this compound	
5		5.000	23655
10		10.000	37902
20		20.000	78012
50		50.000	168232

80	80.000	240069
100	100.000	283245
120	120.000	335812
160	not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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29) Naphthalene ( )

Ret. Time 4.156 min., Extract & Integrate from 3.906 to 4.406 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	128.00			*** METH DEFAULT ***
Q1	129.00	11.10	20.0	*** METH DEFAULT ***
Q2	127.00	13.00	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		2.000	23935
5		5.000	65959
10		10.000	106023
20		20.000	215215
50		50.000	464961
80		80.000	655143
100		100.000	771209
120		120.000	903401
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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30) 4-Chloroaniline ( )

Ret. Time 4.177 min., Extract & Integrate from 3.927 to 4.427 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	127.00			*** METH DEFAULT ***
Q1	129.00	30.80	20.0	*** METH DEFAULT ***
Q2	65.00	33.50	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		not used for this compound	
5		5.000	27898
10		10.000	44791
20		20.000	89367
50		50.000	186965
80		80.000	256894
100		100.000	301168
120		120.000	356836
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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31) Hexachlorobutadiene ( )

Ret. Time 4.218 min., Extract & Integrate from 3.968 to 4.468 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	224.80			*** METH DEFAULT ***
Q1	222.80	62.70	20.0	*** METH DEFAULT ***
Q2	226.80	63.60	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		2.000	5169
5		5.000	14112
10		10.000	21482
20		20.000	44590
50		50.000	97136
80		80.000	136909
100		100.000	163677

120	120.000	194159
160	not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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32) 4-Chloro-3-Methylphenol ( )

Ret. Time 4.455 min., Extract & Integrate from 4.205 to 4.705 min.

Signal	Rel Resp.	Pct. Unc.(abs)	Integration
Tgt 107.00			*** METH DEFAULT ***
Q1 144.00	27.00	20.0	*** METH DEFAULT ***
Q2 142.00	81.80	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		not used for this compound	
5		5.000	20129
10		10.000	32584
20		20.000	68601
50		50.000	148005
80		80.000	212687
100		100.000	256514
120		120.000	301738
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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33) 2-MethylNaphthalene ( )

Ret. Time 4.573 min., Extract & Integrate from 4.369 to 4.683 min.

Signal	Rel Resp.	Pct. Unc.(abs)	Integration
Tgt 142.00			*** METH DEFAULT ***
Q1 141.00	87.90	20.0	*** METH DEFAULT ***
Q2 115.00	38.10	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		2.000	16286
5		5.000	44594
10		10.000	71223
20		20.000	145043
50		50.000	319041
80		80.000	450282
100		100.000	539120
120		120.000	639214
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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34) 1-Methylnaphthalene ( )

Ret. Time 4.640 min., Extract & Integrate from 4.560 to 4.840 min.

Signal	Rel Resp.	Pct. Unc.(abs)	Integration
Tgt 142.00			*** METH DEFAULT ***
Q1 141.00	91.70	20.0	*** METH DEFAULT ***
Q2 115.00	40.00	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		2.000	14921
5		5.000	41457
10		10.000	66702
20		20.000	134015
50		50.000	290958
80		80.000	414875
100		100.000	492954
120		120.000	579455
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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35) ACENAPHTHENE-D10 (ISTD TR)

Ret. Time 5.220 min., Extract & Integrate from 5.059 to 5.383 min.

Signal	Rel Resp.	Pct. Unc.(abs)	Integration
Tgt 164.10			*** METH DEFAULT ***
Q1 162.10	97.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		40.000	304540
5		40.000	330921
10		40.000	254065
20		40.000	245888
50		40.000	198706
80		40.000	183496
100		40.000	192598
120		40.000	171176
160		40.000	201403

Qualifier Peak Analysis ON ISTD conc: 40.000 ug/ml
Curve Fit: Avg. RF

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36) 2-Fluorobiphenyl ( )

Ret. Time 4.790 min., Extract & Integrate from 4.632 to 4.942 min.

Signal	Rel Resp.	Pct. Unc.(abs)	Integration
Tgt 172.00			*** METH DEFAULT ***
Q1 170.00	23.80	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		not used for this compound	
5		5.000	47155
10		10.000	75172
20		20.000	154827
50		50.000	335017
80		80.000	469628
100		100.000	563595
120		120.000	652255
160		160.000	938945

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

37) 2,4,6-Tribromophenol ( )

Ret. Time 5.709 min., Extract & Integrate from 5.548 to 5.861 min.

Signal	Rel Resp.	Pct. Unc.(abs)	Integration
Tgt 329.80			*** METH DEFAULT ***
Q1 331.70	98.20	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		not used for this compound	
5		10.000	13446
10		20.000	22016
20		40.000	46311
50		100.000	106580
80		160.000	163271
100		200.000	203803
120		240.000	252449
160		320.000	401826

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

38) Hexachlorocyclopentadiene ( )

Ret. Time 4.663 min., Extract & Integrate from 4.496 to 4.806 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	236.80			*** METH DEFAULT ***
Q1	234.80	63.10	20.0	*** METH DEFAULT ***
Q2	271.80	12.50	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		not used for this compound	
5		5.000	13435
10		10.000	21730
20		20.000	47257
50		50.000	108696
80		80.000	158271
100		100.000	187776
120		120.000	226645
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

39) 1,2,4,5-Tetrachlorobenzene ( )

Ret. Time 4.671 min., Extract & Integrate from 4.508 to 4.837 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	215.90			*** METH DEFAULT ***
Q1	213.90	77.30	20.0	*** METH DEFAULT ***
Q2	178.90	19.50	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		not used for this compound	
5		5.000	24381
10		10.000	38243
20		20.000	79690
50		50.000	176730
80		80.000	254527
100		100.000	303194
120		120.000	357071
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

40) 2,4,6-Trichlorophenol ( )

Ret. Time 4.736 min., Extract & Integrate from 4.557 to 4.916 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	195.90			*** METH DEFAULT ***
Q1	197.90	96.50	20.0	*** METH DEFAULT ***
Q2	199.90	30.90	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		not used for this compound	
5		5.000	15266
10		10.000	24796
20		20.000	51770
50		50.000	115582
80		80.000	166097
100		100.000	198874
120		120.000	238984
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

41) 2,4,5-Trichlorophenol ( )

Ret. Time 4.762 min., Extract & Integrate from 4.729 to 4.852 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	195.90			*** METH DEFAULT ***
Q1	197.90	96.90	20.0	*** METH DEFAULT ***
Q2	199.90	31.50	20.0	*** METH DEFAULT ***
Q3	199.90	31.50	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		not used for this compound	
5		5.000	15771
10		10.000	26261
20		20.000	55578
50		50.000	119000
80		80.000	170224
100		100.000	205055
120		120.000	240591
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

42) 2-ChloroNaphthalene ( )

Ret. Time 4.875 min., Extract & Integrate from 4.655 to 4.975 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	162.00			*** METH DEFAULT ***
Q1	127.00	35.80	20.0	*** METH DEFAULT ***
Q2	164.00	32.60	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		not used for this compound	
5		5.000	52235
10		10.000	83965
20		20.000	180983
50		50.000	370965
80		80.000	545963
100		100.000	645761
120		120.000	742544
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

43) 2-Nitroaniline ( )

Ret. Time 4.929 min., Extract & Integrate from 4.679 to 5.179 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	65.00			*** METH DEFAULT ***
Q1	92.00	67.60	20.0	*** METH DEFAULT ***
Q2	138.00	103.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		not used for this compound	
5		5.000	11705
10		10.000	19648
20		20.000	41754
50		50.000	91857
80		80.000	133364
100		100.000	159874
120		120.000	190720
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

44) 1,1-Biphenyl ( )

Ret. Time 4.857 min., Extract & Integrate from 4.657 to 5.057 min.

Signal		Rel Resp.	Pct. Unc.(rel)	Integration
Tgt	154.00			*** METH DEFAULT ***
Q1	153.00	40.40	20.0	*** METH DEFAULT ***
Q2	152.00	28.60	20.0	*** METH DEFAULT ***
Q3	76.00	12.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		2.000	19281
5		5.000	53710
10		10.000	84477
20		20.000	175134
50		50.000	374925
80		80.000	526895
100		100.000	628047
120		120.000	744075
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

45) DIMETHYL PHTHALATE ( )

Ret. Time 5.032 min., Extract & Integrate from 4.812 to 5.321 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	163.00			*** METH DEFAULT ***
Q1	194.00	4.10	20.0	*** METH DEFAULT ***
Q2	164.00	10.30	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		2.000	18486
5		5.000	50882
10		10.000	81416
20		20.000	165352
50		50.000	350207
80		80.000	504628
100		100.000	603015
120		120.000	715678
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

46) 2,6-DinitroToluene ( )

Ret. Time 5.073 min., Extract & Integrate from 4.823 to 5.173 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	165.00			*** METH DEFAULT ***
Q1	63.00	66.10	20.0	*** METH DEFAULT ***
Q2	89.00	64.40	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		not used for this compound	
5		5.000	8771
10		10.000	14619
20		20.000	32060
50		50.000	75573
80		80.000	111657
100		100.000	136329
120		120.000	162538
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

47) Acenaphthylene ( )

Ret. Time 5.132 min., Extract & Integrate from 5.027 to 5.221 min.

Signal	Rel Resp.	Pct. Unc.(abs)	Integration
Tgt 152.00			*** METH DEFAULT ***
Q1 151.00	19.20	20.0	*** METH DEFAULT ***
Q2 153.00	13.20	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		2.000	25241
5		5.000	69282
10		10.000	111664
20		20.000	226061
50		50.000	493282
80		80.000	694990
100		100.000	831885
120		120.000	983671
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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48) 3-Nitroaniline ( )

Ret. Time 5.181 min., Extract & Integrate from 5.054 to 5.299 min.

Signal	Rel Resp.	Pct. Unc.(abs)	Integration
Tgt 138.00			*** METH DEFAULT ***
Q1 108.00	11.40	20.0	*** METH DEFAULT ***
Q2 92.00	119.00	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		not used for this compound	
5		5.000	9783
10		10.000	16580
20		20.000	36677
50		50.000	78875
80		80.000	111623
100		100.000	134598
120		120.000	157750
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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49) Acenaphthene ( )

Ret. Time 5.240 min., Extract & Integrate from 5.143 to 5.368 min.

Signal	Rel Resp.	Pct. Unc.(abs)	Integration
Tgt 154.00			*** METH DEFAULT ***
Q1 153.00	104.40	20.0	*** METH DEFAULT ***
Q2 152.00	49.90	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		2.000	15552
5		5.000	41852
10		10.000	66894
20		20.000	136956
50		50.000	301087
80		80.000	438052
100		100.000	522605
120		120.000	627132
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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50) 2,4-Dinitrophenol ( )

Ret. Time 5.243 min., Extract & Integrate from 5.043 to 5.483 min.

Signal	Rel Resp.	Pct. Unc.(abs)	Integration
Tgt 184.00			*** METH DEFAULT ***

Q1	63.00	139.50	20.0	*** METH DEFAULT ***
Q2	154.00	839.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		not used for this compound	
5		not used for this compound	
10		10.000	5053
20		20.000	12936
50		50.000	35857
80		80.000	58476
100		100.000	74658
120		not used for this compound	
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Linear

---

51) 4-Nitrophenol ( )

Ret. Time 5.263 min., Extract & Integrate from 5.063 to 5.604 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	109.00			*** METH DEFAULT ***
Q1	139.00	125.40	20.0	*** METH DEFAULT ***
Q2	65.00	129.10	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		not used for this compound	
5		5.000	7040
10		10.000	11218
20		20.000	25170
50		50.000	56141
80		80.000	83841
100		100.000	99884
120		120.000	120521
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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52) Dibenzofuran ( )

Ret. Time 5.346 min., Extract & Integrate from 5.146 to 5.546 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	168.00			*** METH DEFAULT ***
Q1	139.00	37.60	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		2.000	23156
5		5.000	61400
10		10.000	97610
20		20.000	199402
50		50.000	428364
80		80.000	608298
100		100.000	727552
120		120.000	851649
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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53) 2,4-Dinitrotoluene ( )

Ret. Time 5.323 min., Extract & Integrate from 5.223 to 5.523 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	165.00			*** METH DEFAULT ***
Q1	63.00	49.60	20.0	*** METH DEFAULT ***
Q2	89.00	80.30	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		not used for this compound	
5		not used for this compound	
10		10.000	18177
20		20.000	42932
50		50.000	101873
80		80.000	153256
100		100.000	186807
120		120.000	227231
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

54) DIETHYL PHTHALATE ( )

Ret. Time 5.469 min., Extract & Integrate from 5.219 to 5.719 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	149.00			*** METH DEFAULT ***
Q1	177.00	21.00	20.0	*** METH DEFAULT ***
Q2	150.00	12.10	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		not used for this compound	
5		5.000	50129
10		10.000	76980
20		20.000	156683
50		50.000	339287
80		80.000	490203
100		100.000	592090
120		120.000	704770
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

55) 4-Chlorophenyl phenyl ether ( )

Ret. Time 5.549 min., Extract & Integrate from 5.299 to 5.799 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	204.00			*** METH DEFAULT ***
Q1	206.00	32.40	20.0	*** METH DEFAULT ***
Q2	141.00	55.30	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		not used for this compound	
5		5.000	24176
10		10.000	38736
20		20.000	79132
50		50.000	174012
80		80.000	251398
100		100.000	305665
120		120.000	361950
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

56) Flourene ( )

Ret. Time 5.559 min., Extract & Integrate from 5.359 to 5.679 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	166.00			*** METH DEFAULT ***
Q1	165.00	96.80	20.0	*** METH DEFAULT ***
Q2	167.00	13.60	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		2.000	18898

5	5.000	50817
10	10.000	81168
20	20.000	164582
50	50.000	355450
80	80.000	512338
100	100.000	609222
120	120.000	724755
160	not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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57) 4-Nitroaniline ( )

Ret. Time 5.562 min., Extract & Integrate from 5.312 to 5.812 min.

Signal	Rel Resp.	Pct. Unc.(abs)	Integration
Tgt 138.00			*** METH DEFAULT ***
Q1 65.00	137.40	20.0	*** METH DEFAULT ***
Q2 108.00	85.40	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		not used for this compound	
5		5.000	10407
10		10.000	17270
20		20.000	37216
50		50.000	85750
80		80.000	127315
100		100.000	152268
120		120.000	181234
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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58) PHENANTHRENE-D10 (ISTD TR)

Ret. Time 6.149 min., Extract & Integrate from 5.850 to 6.387 min.

Signal	Rel Resp.	Pct. Unc.(abs)	Integration
Tgt 188.10			*** METH DEFAULT ***
Q1 94.00	8.80	20.0	*** METH DEFAULT ***
Q2 80.00	9.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		40.000	550738
5		40.000	600589
10		40.000	457561
20		40.000	440836
50		40.000	360785
80		40.000	337449
100		40.000	358250
120		40.000	323370
160		40.000	389029

Qualifier Peak Analysis ON ISTD conc: 40.000 ug/ml
Curve Fit: Avg. RF

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59) 4,6-Dinitro-2-Methylphenol ( )

Ret. Time 5.575 min., Extract & Integrate from 5.375 to 5.695 min.

Signal	Rel Resp.	Pct. Unc.(abs)	Integration
Tgt 198.00			*** METH DEFAULT ***
Q1 51.00	46.40	20.0	*** METH DEFAULT ***
Q2 105.00	47.30	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		not used for this compound	
5		not used for this compound	
10		10.000	7658

20	20.000	18722
50	50.000	51147
80	80.000	81687
100	100.000	102164
120	120.000	126412
160	not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Linear

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60) N-Nitrosodiphenylamine ( )

Ret. Time 5.621 min., Extract & Integrate from 5.471 to 5.711 min.

Signal	Rel Resp.	Pct. Unc.(abs)	Integration
Tgt 169.10			*** METH DEFAULT ***
Q1 168.00	64.00	20.0	*** METH DEFAULT ***
Q2 167.00	35.40	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		not used for this compound	
5		4.270	33890
10		8.540	53984
20		17.070	108621
50		42.680	234169
80		68.280	337966
100		85.350	402654
120		102.420	481293
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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61) 1,2-Diphenylhydrazine ( )

Ret. Time 5.650 min., Extract & Integrate from 5.400 to 5.900 min.

Signal	Rel Resp.	Pct. Unc.(abs)	Integration
Tgt 77.00			*** METH DEFAULT ***
Q1 51.00	31.00	20.0	*** METH DEFAULT ***
Q2 182.00	23.90	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		not used for this compound	
5		5.000	52251
10		10.000	80847
20		20.000	162673
50		50.000	343169
80		80.000	491871
100		100.000	584562
120		120.000	689317
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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62) 4-Bromophenyl phenyl ether ( )

Ret. Time 5.858 min., Extract & Integrate from 5.738 to 6.078 min.

Signal	Rel Resp.	Pct. Unc.(abs)	Integration
Tgt 248.00			*** METH DEFAULT ***
Q1 250.00	97.70	20.0	*** METH DEFAULT ***
Q2 141.00	71.60	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		not used for this compound	
5		5.000	13900
10		10.000	21943
20		20.000	45687
50		50.000	101940

80	80.000	148113
100	100.000	184608
120	120.000	221714
160	not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

63) Hexachlorobenzene ( )

Ret. Time 5.899 min., Extract & Integrate from 5.649 to 6.149 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	283.80			*** METH DEFAULT ***
Q1	141.90	38.50	20.0	*** METH DEFAULT ***
Q2	248.80	30.00	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		2.000	5771
5		5.000	16300
10		10.000	25058
20		20.000	51992
50		50.000	118009
80		80.000	178203
100		100.000	214723
120		120.000	262930
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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64) Pentachlorophenol ( )

Ret. Time 6.018 min., Extract & Integrate from 5.768 to 6.268 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	265.80			*** METH DEFAULT ***
Q1	263.80	61.80	20.0	*** METH DEFAULT ***
Q2	267.80	63.40	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		not used for this compound	
5		5.000	10163
10		10.000	16223
20		20.000	36354
50		50.000	88078
80		80.000	133830
100		100.000	164285
120		120.000	201655
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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65) Pentachloronitrobenzene ( )

Ret. Time 6.025 min., Extract & Integrate from 5.172 to 6.878 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	294.80			*** METH DEFAULT ***
Q1	236.80	238.70	20.0	*** METH DEFAULT ***
Q2	213.80	154.60	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		not used for this compound	
5		5.000	2423
10		10.000	3980
20		20.000	8948
50		50.000	20797
80		80.000	31193
100		100.000	38526

120	120.000	46837
160	not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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66) Phenanthrene ( )

Ret. Time 6.167 min., Extract & Integrate from 6.057 to 6.277 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	178.00			*** METH DEFAULT ***
Q1	179.00	15.50	20.0	*** METH DEFAULT ***
Q2	176.00	19.00	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		2.000	26932
5		5.000	73084
10		10.000	114782
20		20.000	234711
50		50.000	510412
80		80.000	739841
100		100.000	890444
120		120.000	1076266
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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67) Anthracene ( )

Ret. Time 6.206 min., Extract & Integrate from 6.156 to 6.306 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	178.00			*** METH DEFAULT ***
Q1	176.00	18.50	20.0	*** METH DEFAULT ***
Q2	179.00	15.60	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		2.000	26646
5		5.000	73850
10		10.000	116241
20		20.000	235541
50		50.000	516568
80		80.000	749035
100		100.000	901864
120		120.000	1085202
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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68) Carbazole ( )

Ret. Time 6.296 min., Extract & Integrate from 6.146 to 6.446 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	167.00			*** METH DEFAULT ***
Q1	166.00	21.00	20.0	*** METH DEFAULT ***
Q2	139.00	13.00	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		2.000	24930
5		5.000	68657
10		10.000	110034
20		20.000	224253
50		50.000	496055
80		80.000	722453
100		100.000	862810
120		120.000	1048566
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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69) Di-N-Butyl Phthalate ( )

Ret. Time 6.517 min., Extract & Integrate from 6.267 to 6.767 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	149.00			*** METH DEFAULT ***
Q1	150.00	9.20	20.0	*** METH DEFAULT ***
Q2	104.00	5.50	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		not used for this compound	
5		5.000	76512
10		10.000	120112
20		20.000	261286
50		50.000	583276
80		80.000	867422
100		100.000	1054396
120		120.000	1269412
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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70) Flouranthene ( )

Ret. Time 7.053 min., Extract & Integrate from 6.903 to 7.153 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	202.00			*** METH DEFAULT ***
Q1	101.00	10.90	20.0	*** METH DEFAULT ***
Q2	203.00	17.50	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		2.000	28653
5		5.000	78896
10		10.000	128807
20		20.000	271663
50		50.000	628379
80		80.000	932315
100		100.000	1107761
120		120.000	1348400
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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71) CHRYSENE-D12 (ISTD TR)

Ret. Time 8.729 min., Extract & Integrate from 8.472 to 8.987 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	240.10			*** METH DEFAULT ***
Q1	236.10	26.10	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		40.000	453488
5		40.000	498278
10		40.000	405924
20		40.000	406326
50		40.000	354876
80		40.000	332733
100		40.000	348540
120		40.000	312622
160		40.000	377029

Qualifier Peak Analysis ON ISTD conc: 40.000 ug/ml
Curve Fit: Avg. RF

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72) Terphenyl-d14 ( )

Ret. Time 7.398 min., Extract & Integrate from 7.148 to 7.645 min.

Signal	Rel Resp.	Pct. Unc.(abs)	Integration
Tgt 244.20			*** METH DEFAULT ***
Q1 245.20	19.30	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		not used for this compound	
5		5.000	45775
10		10.000	74723
20		20.000	159131
50		50.000	378206
80		80.000	568192
100		100.000	684029
120		120.000	830378
160		160.000	1245432

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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73) Benzidine ( )

Ret. Time 7.156 min., Extract & Integrate from 6.974 to 7.336 min.

Signal	Rel Resp.	Pct. Unc.(abs)	Integration
Tgt 184.10			*** METH DEFAULT ***
Q1 92.00	7.80	20.0	*** METH DEFAULT ***
Q2 185.00	14.60	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		2.000	11551
5		5.000	27173
10		10.000	47388
20		20.000	91101
50		50.000	135857
80		80.000	157796
100		not used for this compound	
120		not used for this compound	
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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74) Pyrene ( )

Ret. Time 7.264 min., Extract & Integrate from 7.144 to 7.464 min.

Signal	Rel Resp.	Pct. Unc.(abs)	Integration
Tgt 202.00			*** METH DEFAULT ***
Q1 200.00	20.80	20.0	*** METH DEFAULT ***
Q2 203.00	18.30	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		2.000	29838
5		5.000	83858
10		10.000	137421
20		20.000	289474
50		50.000	667233
80		80.000	980329
100		100.000	1177785
120		120.000	1413973
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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75) Butylbenzyl phthalate ( )

Ret. Time 7.946 min., Extract & Integrate from 7.696 to 8.196 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	149.00			*** METH DEFAULT ***
Q1	91.00	72.70	20.0	*** METH DEFAULT ***
Q2	206.10	17.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		not used for this compound	
5		5.000	32233
10		10.000	55216
20		20.000	122996
50		50.000	295512
80		80.000	441120
100		100.000	531065
120		120.000	641752
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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76) 3,3'-Dichlorobenzidine ( )

Ret. Time 8.675 min., Extract & Integrate from 8.425 to 8.925 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	252.00			*** METH DEFAULT ***
Q1	254.00	64.50	20.0	*** METH DEFAULT ***
Q2	126.00	11.80	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		not used for this compound	
5		5.000	27603
10		10.000	47221
20		20.000	96683
50		50.000	238596
80		80.000	346153
100		100.000	408663
120		120.000	494149
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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77) Benzo(a)anthracene ( )

Ret. Time 8.706 min., Extract & Integrate from 8.416 to 8.786 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	228.10			*** METH DEFAULT ***
Q1	229.10	19.70	20.0	*** METH DEFAULT ***
Q2	226.10	25.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		2.000	29495
5		5.000	81071
10		10.000	132914
20		20.000	284594
50		50.000	679518
80		80.000	996087
100		100.000	1182829
120		120.000	1420408
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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78) Chrysene ( )

Ret. Time 8.768 min., Extract & Integrate from 8.688 to 9.020 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	228.10			*** METH DEFAULT ***
Q1	226.10	29.50	20.0	*** METH DEFAULT ***
Q2	229.10	19.60	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		2.000	27254
5		5.000	74715
10		10.000	126456
20		20.000	264441
50		50.000	632048
80		80.000	931136
100		100.000	1103560
120		120.000	1323168
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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79) Bis(2-ethylhexyl)phthalate ( )

Ret. Time 8.783 min., Extract & Integrate from 8.533 to 9.033 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	149.00			*** METH DEFAULT ***
Q1	167.00	25.90	20.0	*** METH DEFAULT ***
Q2	279.10	3.80	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		2.000	14863
5		5.000	43190
10		10.000	72519
20		20.000	160316
50		50.000	373913
80		80.000	553432
100		100.000	661901
120		120.000	801142
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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80) PERYLENE-D12 (ISTD TR)

Ret. Time 11.345 min., Extract & Integrate from 11.063 to 11.627 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	264.10			*** METH DEFAULT ***
Q1	260.10	22.90	20.0	*** METH DEFAULT ***
Q2	265.10	21.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		40.000	458971
5		40.000	527264
10		40.000	424760
20		40.000	430088
50		40.000	370376
80		40.000	344292
100		40.000	353645
120		40.000	311776
160		40.000	372677

Qualifier Peak Analysis ON ISTD conc: 40.000 ug/ml
Curve Fit: Avg. RF

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81) Di-n-octylphthalate ( )

Ret. Time 9.975 min., Extract & Integrate from 9.725 to 10.225 min.

Signal	Rel Resp.	Pct. Unc.(abs)	Integration

Tgt	149.00			*** METH DEFAULT ***
Q1	167.00	1.40	20.0	*** METH DEFAULT ***
Q2	43.10	9.60	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		not used for this compound	
5		5.000	74505
10		10.000	124493
20		20.000	280676
50		50.000	670041
80		80.000	1009164
100		100.000	1196354
120		120.000	1445389
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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82) Benzo(b)fluoranthene ( )

Ret. Time 10.593 min., Extract & Integrate from 10.343 to 10.683 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	252.10			*** METH DEFAULT ***
Q1	253.10	24.00	20.0	*** METH DEFAULT ***
Q2	125.00	12.10	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		2.000	27197
5		5.000	76711
10		10.000	133143
20		20.000	287153
50		50.000	700110
80		80.000	1027421
100		100.000	1235120
120		120.000	1490692
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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83) Benzo(k)fluoranthene ( )

Ret. Time 10.650 min., Extract & Integrate from 10.570 to 10.850 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	252.10			*** METH DEFAULT ***
Q1	253.10	21.90	20.0	*** METH DEFAULT ***
Q2	126.00	14.80	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		2.000	24592
5		5.000	70384
10		10.000	119830
20		20.000	253214
50		50.000	610300
80		80.000	887419
100		100.000	1042274
120		120.000	1251802
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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84) Benzo(a)pyrene ( )

Ret. Time 11.232 min., Extract & Integrate from 11.112 to 11.352 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	252.10			*** METH DEFAULT ***
Q1	253.10	22.00	20.0	*** METH DEFAULT ***

Q2	125.00	11.60	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		2.000	23764
5		5.000	68254
10		10.000	117833
20		20.000	253499
50		50.000	608033
80		80.000	894811
100		100.000	1057894
120		120.000	1255309
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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85) Indeno(1,2,3-cd)pyrene ( )

Ret. Time 13.230 min., Extract & Integrate from 12.970 to 13.350 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	276.10			*** METH DEFAULT ***
Q1	138.00	21.70	20.0	*** METH DEFAULT ***
Q2	277.10	23.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		2.000	19566
5		5.000	55531
10		10.000	92837
20		20.000	204574
50		50.000	504900
80		80.000	743767
100		100.000	884856
120		120.000	1026988
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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86) Dibenz(a,h)anthracene ( )

Ret. Time 13.284 min., Extract & Integrate from 13.054 to 13.404 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	278.10			*** METH DEFAULT ***
Q1	139.00	18.30	20.0	*** METH DEFAULT ***
Q2	279.10	23.70	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		2.000	18347
5		5.000	53143
10		10.000	90046
20		20.000	200068
50		50.000	497362
80		80.000	731007
100		100.000	863125
120		120.000	1004228
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

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87) Benzo(g,h,i)perylene ( )

Ret. Time 13.642 min., Extract & Integrate from 13.402 to 13.882 min.

Signal		Rel Resp.	Pct. Unc.(abs)	Integration
Tgt	276.10			*** METH DEFAULT ***
Q1	138.00	23.20	20.0	*** METH DEFAULT ***
Q2	277.10	23.30	20.0	*** METH DEFAULT ***

Lvl	ID	Conc (ug/ml)	Response
2		2.000	18567
5		5.000	53840
10		10.000	90151
20		20.000	196630
50		50.000	473368
80		80.000	691731
100		100.000	816456
120		120.000	943229
160		not used for this compound	

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

END OF DATA ANALYSIS PARAMETERS

Fri Feb 16 09:15:38 2024

7 - FORM VII

INITIAL CALIBRATION VERIFICATION

SW-846 8270E

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	GCMSSV4	Calibration:	2400207
Lab File ID:	D24S046009.D	Calibration Date:	02/15/24 10:46
Sequence:	S100626	Injection Date:	02/15/24
Lab Sample ID:	S100626-ICV1	Injection Time:	13:32

		CONC. (µg/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)	
2,3,4,6-Tetrachlorophenol	A	50.0	53.6	0.145784	0.3123242		114	30	*
Atrazine	A	50.0	50.7	0.3948915	0.4002082		1.3	30	
Benzaldehyde	A	50.0	30.2	1.101015	0.6660615		-39.5	30	*
Biphenyl	A	50.0	50.3	1.37721	1.384434		0.5	30	
Caprolactam	A	50.0	49.9	0.1046827	0.1044844		-0.2	30	
Acenaphthene	A	50.0	49.0	1.114086	1.09105		-2.1	30	
Acenaphthylene	A	50.0	48.0	1.806532	1.734122		-4.0	30	
Acetophenone	A	50.0	48.6	1.851454	1.799377		-2.8	30	
Aniline	A	50.0	36.9	0.7316449	0.5402806		-26.2	30	
Anthracene	A	50.0	47.3	1.052128	0.9944406		-5.5	30	
Benzo(a)anthracene	A	50.0	46.9	1.401704	1.314524		-6.2	30	
Benzo(a)pyrene	A	50.0	46.0	1.188886	1.093688		-8.0	30	
Benzo(b)fluoranthene	A	50.0	45.9	1.366657	1.255578		-8.1	30	
Benzo(g,h,i)perylene	A	50.0	50.1	0.9185311	0.9196082		0.1	30	
Benzo(k)fluoranthene	A	50.0	48.1	1.196214	1.150183		-3.8	30	
Bis(2-chloroethoxy)methane	A	50.0	51.6	0.3835807	0.3954648		3.1	30	
Bis(2-chloroethyl)ether	A	50.0	53.2	0.9040686	0.9623546		6.4	30	
Bis(2-chloroisopropyl)ether	A	50.0	56.1	1.196667	1.341677		12.1	30	
Bis(2-Ethylhexyl)phthalate	A	50.0	47.8	0.7676298	0.7341299		-4.4	30	
4-Bromophenylphenylether	A	50.0	46.7	0.2092027	0.1953241		-6.6	30	
Butylbenzylphthalate	A	50.0	47.5	0.6128298	0.5822881		-5.0	30	
Carbazole	A	50.0	46.2	1.001727	0.92464		-7.7	30	
4-Chloroaniline	A	50.0	34.6	0.4075702	0.282384		-30.7	30	*
4-Chloro-3-methylphenol	A	50.0	49.2	0.322124	0.3166748		-1.7	30	
2-Chloronaphthalene	A	50.0	43.2	1.403588	1.212972		-13.6	30	
2-Chlorophenol	A	50.0	51.3	1.350922	1.386653		2.6	30	
4-Chlorophenylphenylether	A	50.0	48.3	0.6518878	0.6291526		-3.5	30	
Chrysene	A	50.0	46.3	1.306331	1.208768		-7.5	30	
Dibenz(a,h)anthracene	A	50.0	49.0	0.9462443	0.9274214		-2.0	30	
Dibenzofuran	A	50.0	49.5	1.589415	1.57283		-1.0	30	

7 - FORM VII

INITIAL CALIBRATION VERIFICATION

SW-846 8270E

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	GCMSSV4	Calibration:	2400207
Lab File ID:	D24S046022.D	Calibration Date:	02/15/24 10:46
Sequence:	S100626	Injection Date:	02/15/24
Lab Sample ID:	S100626-ICV1	Injection Time:	13:32

		CONC. (µg/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Di-n-butylphthalate	A	50.0	46.2	1.188429	1.099398		-7.5	30
3,3-Dichlorobenzidine	A	50.0	42.8	0.4911862	0.4200862		-14.5	30
2,4-Dichlorophenol	A	50.0	50.3	0.3313699	0.3335446		0.7	30
Diethylphthalate	A	50.0	47.3	1.286012	1.217462		-5.3	30
2,4-Dimethylphenol	A	50.0	43.6	0.3365345	0.2936332		-12.7	30
Dimethylphthalate	A	50.0	47.1	1.312734	1.236928		-5.8	30
4,6-Dinitro-2-methylphenol	L	50.0	47.7	0.1051184	0.1080342		-4.6	30
2,4-Dinitrophenol	L	50.0	47.6	0.1287056	0.1388549		-4.7	30
2,4-Dinitrotoluene	A	50.0	49.8	0.3822645	0.3807034		-0.4	30
2,6-Dinitrotoluene	A	50.0	52.2	0.2730183	0.2849651		4.4	30
Di-n-octylphthalate	A	50.0	43.9	1.345619	1.182096		-12.2	30
Fluoranthene	A	50.0	46.2	1.231443	1.137615		-7.6	30
Fluorene	A	50.0	47.6	1.323734	1.259203		-4.9	30
Hexachlorobenzene	A	50.0	47.8	0.2397654	0.2292023		-4.4	30
Hexachlorobutadiene	A	50.0	49.8	0.2096549	0.208943		-0.3	30
Hexachlorocyclopentadiene	A	50.0	39.6	0.3930716	0.3116233		-20.7	30
Hexachloroethane	A	50.0	49.3	0.5818572	0.5738809		-1.4	30
Indeno(1,2,3-cd)pyrene	A	50.0	49.0	0.9737835	0.9552385		-1.9	30
Isophorone	A	50.0	52.4	0.6817735	0.7144414		4.8	30
1-Methylnaphthalene	A	50.0	49.0	0.6278239	0.6152962		-2.0	30
2-Methylnaphthalene	A	50.0	49.1	0.6826738	0.6704438		-1.8	30
2-Methylphenol	A	50.0	49.8	1.17515	1.169288		-0.5	30
3/4-Methylphenol	A	50.0	54.7	1.330932	1.455346		9.3	30
Naphthalene	A	50.0	50.2	0.9957644	0.9995514		0.4	30
2-Nitroaniline	A	50.0	60.9	0.3383672	0.4120579		21.8	30
3-Nitroaniline	A	50.0	43.0	0.2863291	0.246249		-14.0	30
4-Nitroaniline	A	50.0	49.1	0.3125004	0.306628		-1.9	30
Nitrobenzene	A	50.0	49.7	0.4083542	0.406149		-0.5	30
2-Nitrophenol	A	50.0	51.6	0.1856927	0.1916112		3.2	30
4-Nitrophenol	A	50.0	48.4	0.2068792	0.2002908		-3.2	30

7 - FORM VII

INITIAL CALIBRATION VERIFICATION

SW-846 8270E

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	GCMSSV4	Calibration:	2400207
Lab File ID:	D24S046022.D	Calibration Date:	02/15/24 10:46
Sequence:	S100626	Injection Date:	02/15/24
Lab Sample ID:	S100626-ICV1	Injection Time:	13:32

		CONC. (µg/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
N-Nitrosodiphenylamine/Diphenylamine	A	50.0	48.9	0.5642422	0.5534453		-1.9	30
N-Nitrosodi-n-propylamine	A	50.0	48.9	0.9860724	0.9642984		-2.2	30
Pentachlorophenol	A	50.0	46.5	0.1752894	0.1629446		-7.0	30
Phenanthrene	A	50.0	46.6	1.043931	0.9738225		-6.7	30
Phenol	A	50.0	51.0	1.735103	1.769062		2.0	30
Pyrene	A	50.0	48.6	1.409739	1.37094		-2.8	30
Pyridine	A	50.0	43.9	1.41571	1.242375		-12.2	30
1,2,4,5-Tetrachlorobenzene	A	50.0	47.4	0.6528262	0.6184009		-5.3	30
2,4,5-Trichlorophenol	A	50.0	49.1	0.4405842	0.4324711		-1.8	30
2,4,6-Trichlorophenol	A	50.0	49.0	0.425267	0.416435		-2.1	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8270E

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	GCMSSV4	Calibration:	2400207
Lab File ID:	D24S136004.D	Calibration Date:	02/15/24 10:46
Sequence:	S104589	Injection Date:	05/15/24
Lab Sample ID:	S104589-CCV1	Injection Time:	07:52

		CONC. (µg/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Biphenyl	A	50.0	53.9	1.37721	1.4836		7.7	20	
Acenaphthene	A	50.0	48.4	1.114086	1.077915		-3.2	20	
Acenaphthylene	A	50.0	48.9	1.806532	1.767757		-2.1	20	
Acetophenone	A	50.0	51.2	1.851454	1.897905		2.5	20	
Aniline	A	50.0	40.2	0.7316449	0.5882505		-19.6	20	
Anthracene	A	50.0	50.2	1.052128	1.05715		0.5	20	
Benzo(a)anthracene	A	50.0	51.1	1.401704	1.43355		2.3	20	
Benzo(a)pyrene	A	50.0	51.5	1.188886	1.224148		3.0	20	
Benzo(b)fluoranthene	A	50.0	52.1	1.366657	1.424764		4.3	20	
Benzo(g,h,i)perylene	A	50.0	56.1	0.9185311	1.03139		12.3	20	
Benzo(k)fluoranthene	A	50.0	52.5	1.196214	1.255409		4.9	20	
Bis(2-chloroethoxy)methane	A	50.0	52.9	0.3835807	0.405787		5.8	20	
Bis(2-chloroethyl)ether	A	50.0	52.2	0.9040686	0.9438177		4.4	20	
Bis(2-chloroisopropyl)ether	A	50.0	59.5	1.196667	1.423003		18.9	20	
Bis(2-Ethylhexyl)phthalate	A	50.0	82.0	0.7676298	1.259099		64.0	20	*
4-Bromophenylphenylether	A	50.0	52.7	0.2092027	0.2204185		5.4	20	
Butylbenzylphthalate	A	50.0	65.0	0.6128298	0.7967501		30.0	20	*
Carbazole	A	50.0	49.9	1.001727	0.9999556		-0.2	20	
4-Chloroaniline	A	50.0	45.0	0.4075702	0.3668774		-10.0	20	
4-Chloro-3-methylphenol	A	50.0	52.6	0.322124	0.3387808		5.2	20	
2-Chloronaphthalene	A	50.0	51.5	1.403588	1.444977		2.9	20	
2-Chlorophenol	A	50.0	53.2	1.350922	1.438524		6.5	20	
4-Chlorophenylphenylether	A	50.0	53.6	0.6518878	0.6991198		7.2	20	
Chrysene	A	50.0	49.4	1.306331	1.291606		-1.1	20	
Dibenz(a,h)anthracene	A	50.0	61.6	0.9462443	1.166161		23.2	20	*
Dibenzofuran	A	50.0	50.8	1.589415	1.614538		1.6	20	
Di-n-butylphthalate	A	50.0	66.1	1.188429	1.571223		32.2	20	*
3,3-Dichlorobenzidine	A	50.0	50.4	0.4911862	0.4947661		0.7	20	
2,4-Dichlorophenol	A	50.0	49.0	0.3313699	0.3249526		-1.9	20	
Diethylphthalate	A	50.0	54.9	1.286012	1.411152		9.7	20	

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8270E

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	GCMSSV4	Calibration:	2400207
Lab File ID:	D24S136004.D	Calibration Date:	02/15/24 10:46
Sequence:	S104589	Injection Date:	05/15/24
Lab Sample ID:	S104589-CCV1	Injection Time:	07:52

		CONC. (µg/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
2,4-Dimethylphenol	A	50.0	48.5	0.3365345	0.3263308		-3.0	20	
Dimethylphthalate	A	50.0	52.8	1.312734	1.385206		5.5	20	
4,6-Dinitro-2-methylphenol	L	50.0	54.8	0.1051184	0.1268482		9.7	20	
2,4-Dinitrophenol	L	50.0	52.6	0.1287056	0.1556105		5.3	20	
2,4-Dinitrotoluene	A	50.0	54.9	0.3822645	0.4196242		9.8	20	
2,6-Dinitrotoluene	A	50.0	55.8	0.2730183	0.3044295		11.5	20	
Di-n-octylphthalate	A	50.0	82.7	1.345619	2.225306		65.4	20	*
Fluoranthene	A	50.0	53.0	1.231443	1.305315		6.0	20	
Fluorene	A	50.0	50.9	1.323734	1.347781		1.8	20	
Hexachlorobenzene	A	50.0	47.8	0.2397654	0.2290579		-4.5	20	
Hexachlorobutadiene	A	50.0	53.3	0.2096549	0.2234367		6.6	20	
Hexachlorocyclopentadiene	A	50.0	36.8	0.3930716	0.2896942		-26.3	20	*
Hexachloroethane	A	50.0	52.5	0.5818572	0.6105475		4.9	20	
Indeno(1,2,3-cd)pyrene	A	50.0	56.4	0.9737835	1.097988		12.8	20	
Isophorone	A	50.0	51.2	0.6817735	0.6982386		2.4	20	
1-Methylnaphthalene	A	50.0	53.0	0.6278239	0.6650761		5.9	20	
2-Methylnaphthalene	A	50.0	54.0	0.6826738	0.7366593		7.9	20	
2-Methylphenol	A	50.0	51.4	1.17515	1.209221		2.9	20	
3/4-Methylphenol	A	100	108	1.330932	1.441271		8.3	20	
Naphthalene	A	50.0	52.2	0.9957644	1.038988		4.3	20	
2-Nitroaniline	A	50.0	54.2	0.3383672	0.3668874		8.4	20	
3-Nitroaniline	A	50.0	51.2	0.2863291	0.2930483		2.3	20	
4-Nitroaniline	A	50.0	49.7	0.3125004	0.3105047		-0.6	20	
Nitrobenzene	A	50.0	51.1	0.4083542	0.4171376		2.2	20	
2-Nitrophenol	A	50.0	56.6	0.1856927	0.2100664		13.1	20	
4-Nitrophenol	A	50.0	53.2	0.2068792	0.2199028		6.3	20	
N-Nitrosodiphenylamine/Diphenylamine	A	42.8	43.8	0.5642422	0.5793533		2.7	20	
N-Nitrosodi-n-propylamine	A	50.0	55.6	0.9860724	1.096977		11.2	20	
Pentachlorophenol	A	50.0	39.7	0.1752894	0.139277		-20.5	20	*
Phenanthrene	A	50.0	50.0	1.043931	1.044078		0.01	20	

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8270E

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	GCMSSV4	Calibration:	2400207
Lab File ID:	D24S136004.D	Calibration Date:	02/15/24 10:46
Sequence:	S104589	Injection Date:	05/15/24
Lab Sample ID:	S104589-CCV1	Injection Time:	07:52

		CONC. (µg/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Phenol	A	50.0	52.7	1.735103	1.827706		5.3	20
Pyrene	A	50.0	48.2	1.409739	1.358194		-3.7	20
Pyridine	A	50.0	48.7	1.41571	1.378683		-2.6	20
1,2,4,5-Tetrachlorobenzene	A	50.0	50.4	0.6528262	0.6583402		0.8	20
2,4,5-Trichlorophenol	A	50.0	48.2	0.4405842	0.4249642		-3.5	20
2,4,6-Trichlorophenol	A	50.0	49.4	0.425267	0.4197303		-1.3	20
2-Fluorophenol	A	100	103	0.9744759	1.001767		2.8	
Phenol-d6	A	100	104	1.545596	1.607942		4.0	
Nitrobenzene-d5	A	50.0	53.1	0.3705509	0.3933414		6.2	
2-Fluorobiphenyl	A	50.0	53.5	1.227179	1.312443		6.9	
2,4,6-Tribromophenol	A	100	85.6	0.2084999	0.1785282		-14.4	
p-Terphenyl-d14	A	50.0	55.7	0.8071469	0.8992056		11.4	

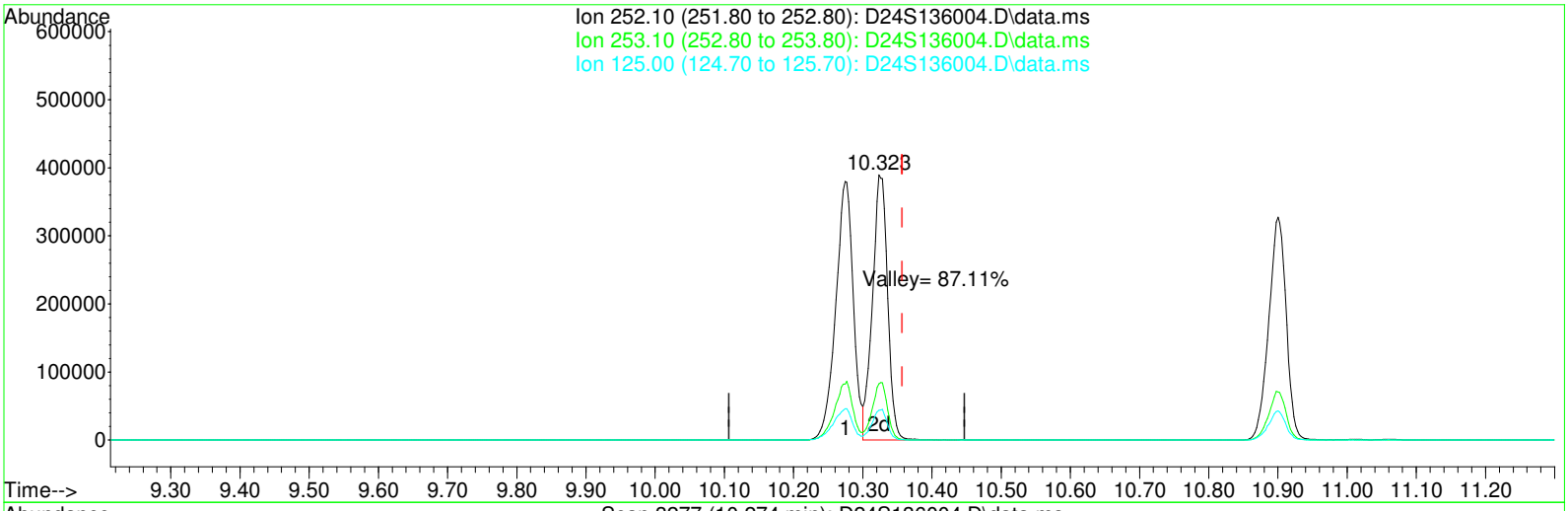
Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

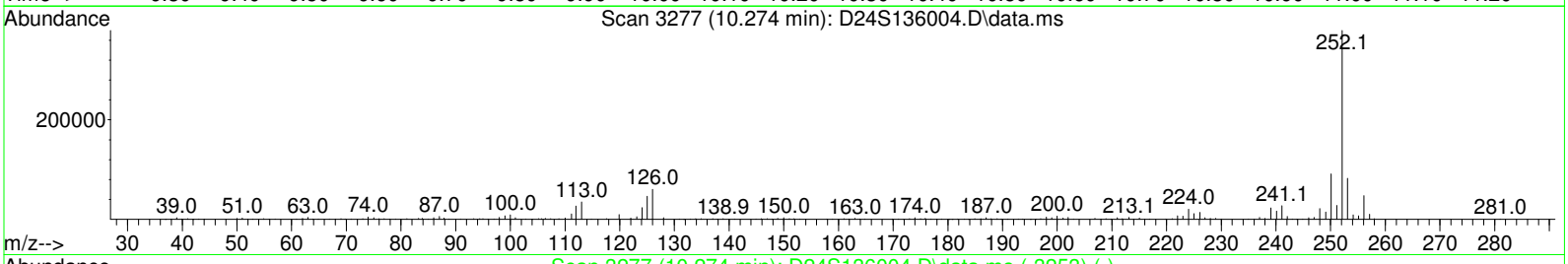
* Values outside of QC limits

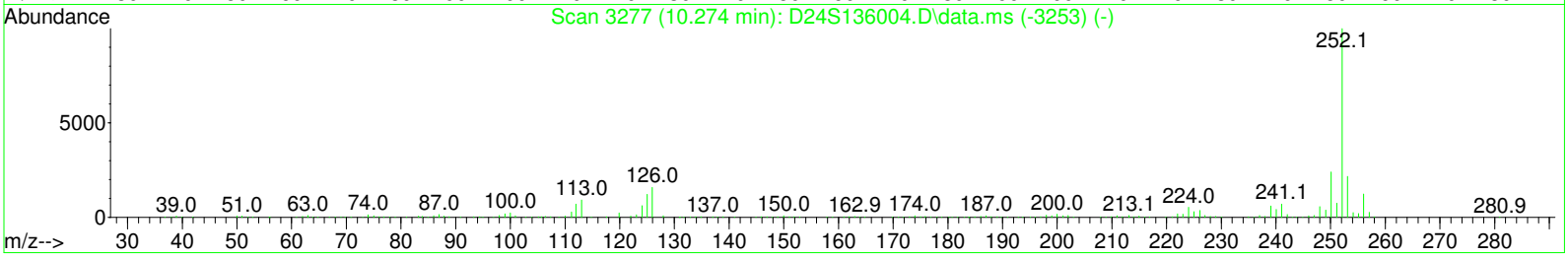
Data Path : C:\msdchem\1\DATA\D051524\
Data File : D24S136004.D
Acq On : 15 May 2024 7:52 am
Operator : BGL
Sample : 8270 50 ppm 24C0900CC Inst : GCMSSV4
Misc :
ALS Vial : 4 Sample Multiplier: 1

644

Quant Time: May 15 08:06:57 2024
Quant Method : C:\msdchem\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Wed Apr 24 09:02:55 2024
Response via : Initial Calibration







TIC: D24S136004.D\data.ms

(82) Benzo(b)fluoranthene

10.274min (-0.082) 52.13 ug/ml

response 669963

Ion	Exp%	Act%
252.10	100	100
253.10	24.00	23.60
125.00	12.10	13.50
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D051524\
Data File : D24S136004.D
Acq On : 15 May 2024 7:52 am
Operator : BGL
Sample : 8270 50 ppm 24C0900CC Inst : GCMSSV4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 15 08:06:57 2024
Quant Method : C:\msdchem\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Wed Apr 24 09:02:55 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-D4	3.271	152	99170	40.00	ug/ml	-0.04
19) NAPHTHALENE-d8	4.007	136	361638	40.00	ug/ml	-0.04
35) ACENAPHTHENE-D10	5.078	164	211086	40.00	ug/ml	-0.04
58) PHENANTHRENE-D10	6.005	188	383173	40.00	ug/ml	-0.04
71) CHRYSENE-D12	8.469	240	382293	40.00	ug/ml	-0.07
80) PERYLENE-D12	11.011	264	376182	40.00	ug/ml	-0.09
System Monitoring Compounds						
2) 2-Fluorophenol	2.604	112	248363	102.80	ug/ml	-0.04
Spiked Amount 200.000	Range 30 - 130		Recovery = 51.40%			
3) Phenol-d6	3.062	99	398649	104.03	ug/ml	-0.04
Spiked Amount 200.000	Range 30 - 130		Recovery = 52.02%			
20) Nitrobenzene-d5	3.583	82	177809	53.08	ug/ml	-0.04
Spiked Amount 100.000	Range 30 - 130		Recovery = 53.08%			
36) 2-Fluorobiphenyl	4.651	172	346298	53.47	ug/ml	-0.04
Spiked Amount 100.000	Range 30 - 130		Recovery = 53.47%			
37) 2,4,6-Tribromophenol	5.570	330	94212	85.63	ug/ml	-0.04
Spiked Amount 200.000	Range 30 - 130		Recovery = 42.81%			
72) Terphenyl-d14	7.192	244	429700	55.70	ug/ml	-0.06
Spiked Amount 100.000	Range 30 - 130		Recovery = 55.70%			
Target Compounds						Qvalue
4) N-Nitrosodimethylamine	1.958	42	97620	47.72	ug/ml	100
5) Pyridine	1.984	79	170905	48.69	ug/ml	94
6) Aniline	3.096	66	72921	40.20	ug/ml#	86
7) Phenol	3.070	94	226567	52.67	ug/ml	97
8) Bis(2-chloroethyl)ether	3.114	63	116998	52.20	ug/ml	97
9) 2-Chlorophenol	3.163	128	178323	53.24	ug/ml	99
10) 1,3-Dichlorobenzene	3.243	146	198923	51.74	ug/ml	98
11) 1,4-Dichlorobenzene	3.281	146	201266	52.27	ug/ml	98
12) 1,2-Dichlorobenzene	3.366	146	185118	51.66	ug/ml	99
13) 2- METHYLPHENOL	3.400	108	149898	51.45	ug/ml	87
14) Bis(2-Chloroisopropyl)...	3.405	45	176399	59.46	ug/ml#	65
15) Acetophenone	3.490	105	235269	51.25	ug/ml#	52
16) 3/4- METHYLPHENOL	3.485	107	357327	108.29	ug/ml#	73
17) N-Nitroso-Di-N-Propyla...	3.482	70	135984	55.62	ug/ml	86
18) Hexachloroethane	3.557	117	75685	52.47	ug/ml	98
21) NITROBENZENE	3.595	77	188566	51.08	ug/ml	99
22) Isophorone	3.724	82	315637	51.21	ug/ml	99
23) 2-Nitrophenol	3.778	139	94960	56.56	ug/ml	99
24) 2,4-Dimethylphenol	3.791	122	147517	48.48	ug/ml	92
25) Bis(2-Chloroethoxy)met...	3.840	93	183435	52.89	ug/ml	95
26) Benzoic Acid	3.845	122	103664	54.27	ug/ml	90
27) 2,4-Dichlorophenol	3.922	162	146894	49.03	ug/ml	98
28) 1,2,4-Trichlorobenzene	3.966	180	164564	49.76	ug/ml	99
29) Naphthalene	4.020	128	469672	52.17	ug/ml	100
30) 4-Chloroaniline	4.046	127	165846	45.01	ug/ml	97
31) Hexachlorobutadiene	4.077	225	101004	53.29	ug/ml	100
32) 4-Chloro-3-Methylphenol	4.337	107	153145	52.59	ug/ml	98
33) 2-MethylNaphthalene	4.432	142	333005	53.95	ug/ml	97
34) 1-Methylnaphthalene	4.494	142	300646	52.97	ug/ml	97
38) Hexachlorocyclopentadiene	4.522	237	76438	36.85	ug/ml	99
39) 1,2,4,5-Tetrachloroben...	4.535	216	173708	50.42	ug/ml	98
40) 2,4,6-Trichlorophenol	4.607	196	110749	49.35	ug/ml	99
41) 2,4,5-Trichlorophenol	4.638	196	112130	48.23	ug/ml	99
42) 2-ChloroNaphthalene	4.736	162	381268	51.47	ug/ml	98

Data Path : C:\msdchem\1\DATA\D051524\
Data File : D24S136004.D
Acq On : 15 May 2024 7:52 am
Operator : BGL
Sample : 8270 50 ppm 24C0900CC Inst : GCMSSV4
Misc :
ALS Vial : 4 Sample Multiplier: 1

646

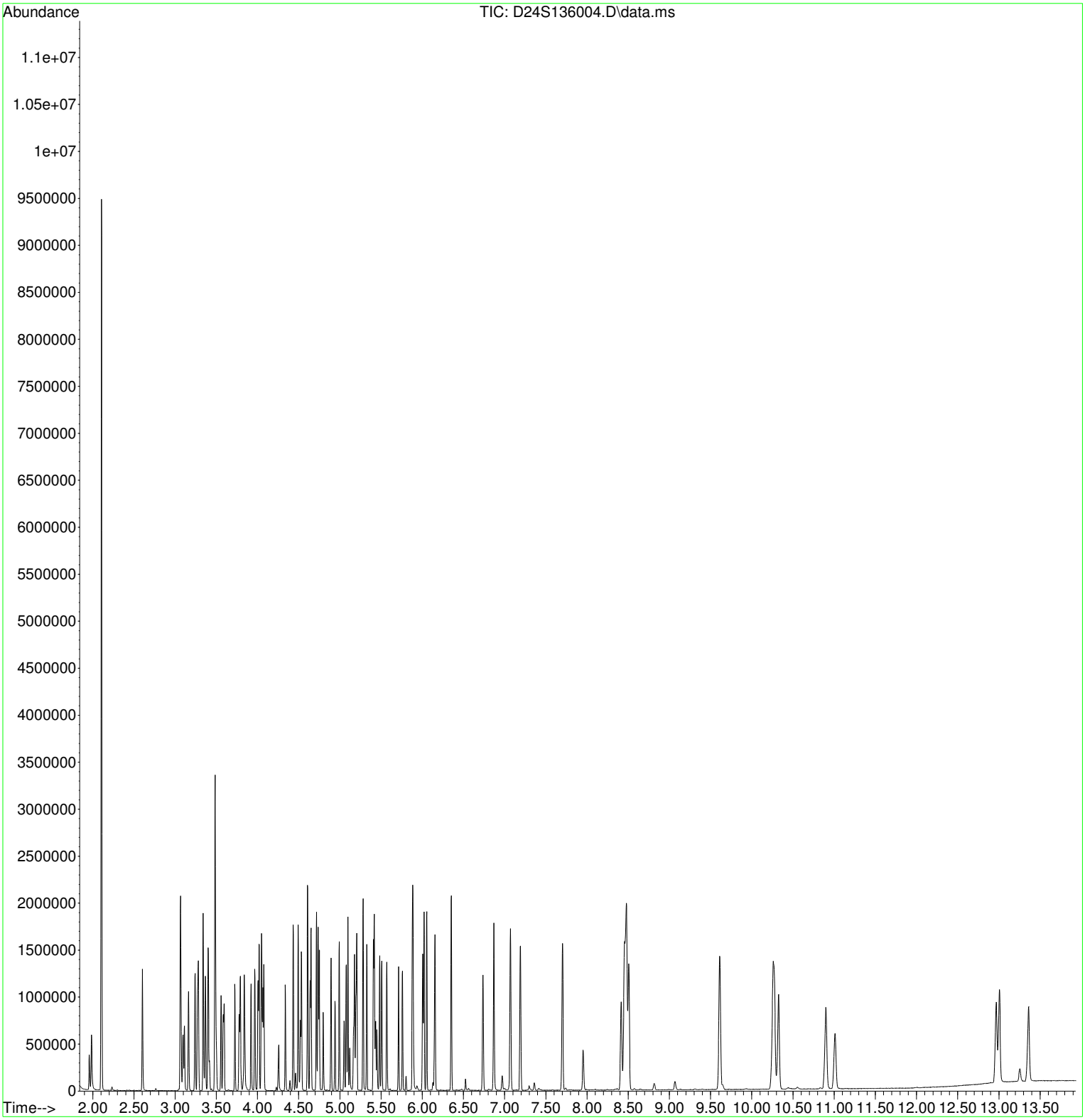
Quant Time: May 15 08:06:57 2024
Quant Method : C:\msdchem\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Wed Apr 24 09:02:55 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) 2-Nitroaniline	4.798	65	96806	54.21	ug/ml	97
44) 1,1-Biphenyl	4.715	154	391459	53.86	ug/ml	99
45) DIMETHYL PHTHALATE	4.893	163	365497	52.76	ug/ml	99
46) 2,6-DinitroToluene	4.942	165	80326	55.75	ug/ml	96
47) Acenaphthylene	4.994	152	466436	48.93	ug/ml	99
48) 3-Nitroaniline	5.053	138	77323	51.17	ug/ml	95
49) Acenaphthene	5.099	154	284416	48.38	ug/ml	94
50) 2,4-Dinitrophenol	5.120	184	41059	52.63	ug/ml#	1
51) 4-Nitrophenol	5.166	109	58023	53.15	ug/ml	89
52) Dibenzofuran	5.205	168	426008	50.79	ug/ml	98
53) 2,4-Dinitrotoluene	5.194	165	110721	54.89	ug/ml#	82
54) DIETHYL PHTHALATE	5.326	149	372343	54.87	ug/ml	100
55) 4-Chlorophenyl phenyl ...	5.405	204	184468	53.62	ug/ml	98
56) Flourene	5.418	166	355622	50.91	ug/ml	100
57) 4-Nitroaniline	5.434	138	81929	49.68	ug/ml#	85
59) 4,6-Dinitro-2-Methylph...	5.449	198	60756	54.83	ug/ml	96
60) N-Nitrosodiphenylamine	5.483	169	237532	43.81	ug/ml	99
61) 1,2-Diphenylhydrazine	5.508	77	359028	52.54	ug/ml	99
62) 4-Bromophenyl phenyl e...	5.714	248	105573	52.68	ug/ml	98
63) Hexachlorobenzene	5.761	284	109711	47.77	ug/ml	95
64) Pentachlorophenol	5.887	266	66709	39.73	ug/ml	97
65) Pentachloronitrobenzene	5.887	295	19868	49.84	ug/ml#	80
66) Phenanthrene	6.021	178	500078	50.01	ug/ml	99
67) Anthracene	6.054	178	506339	50.24	ug/ml	100
68) Carbazole	6.155	167	478945	49.91	ug/ml	100
69) Di-N-Butyl Phthalate	6.353	149	752563	66.11	ug/ml	100
70) Flouranthene	6.871	202	625202	53.00	ug/ml	99
73) Benzidine	6.971	184	51997	13.58	ug/ml	99
74) Pyrene	7.071	202	649035	48.17	ug/ml	100
75) Butylbenzyl phthalate	7.702	149	380740	65.01	ug/ml	99
76) 3,3'-Dichlorobenzidine	8.415	252	236432	50.36	ug/ml	99
77) Benzo(a)anthracene	8.454	228	685045	51.14	ug/ml	99
78) Chrysene	8.505	228	617215	49.44	ug/ml	100
79) Bis(2-ethylhexyl)phtha...	8.480	149	601681	82.01	ug/ml	100
81) Di-n-octylphthalate	9.610	149	1046400	82.69	ug/ml	97
82) Benzo(b)fluoranthene	10.274	252	669963	52.13	ug/ml	98
83) Benzo(k)fluoranthene	10.323	252	590328	52.47	ug/ml	98
84) Benzo(a)pyrene	10.900	252	575628	51.48	ug/ml	98
85) Indeno(1,2,3-cd)pyrene	12.970	276	516304	56.38	ug/ml	97
86) Dibenz(a,h)anthracene	13.009	278	548361	61.62	ug/ml	100
87) Benzo(g,h,i)perylene	13.362	276	484988	56.14	ug/ml	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\D051524\
Data File : D24S136004.D
Acq On : 15 May 2024 7:52 am
Operator : BGL
Sample : 8270 50 ppm 24C0900CC Inst : GCMSSV4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 15 08:06:57 2024
Quant Method : C:\msdchem\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Wed Apr 24 09:02:55 2024
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\D051524\
Data File : D24S136004.D
Acq On : 15 May 2024 7:52 am
Operator : BGL
Sample : 8270 50 ppm 24C0900CC Inst : GCMSSV4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 15 08:06:57 2024
Quant Method : C:\msdchem\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Wed Apr 24 09:02:55 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 10% Max. R.T. Dev 1.00min
Max. RRF Dev : 20% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-D4	40.000	40.000	0.0	105	-0.04
2	S	2-Fluorophenol	100.000	102.801	-2.8	97	-0.04
3	S	Phenol-d6	100.000	104.034	-4.0	99	-0.04
4		N-Nitrosodimethylamine	50.000	47.715	4.6	93	-0.04
5		Pyridine	50.000	48.692	2.6	93	-0.04
6		Aniline	50.000	40.201	19.6	80	-0.04
7	C	Phenol	50.000	52.669	-5.3#	99	-0.04
8		Bis(2-chloroethyl)ether	50.000	52.198	-4.4	101	-0.04
9		2-Chlorophenol	50.000	53.242	-6.5	103	-0.04
10		1,3-Dichlorobenzene	50.000	51.745	-3.5	101	-0.04
11	C	1,4-Dichlorobenzene	50.000	52.268	-4.5#	101	-0.04
12		1,2-Dichlorobenzene	50.000	51.657	-3.3	100	-0.04
13		2- METHYLPHENOL	50.000	51.450	-2.9	100	-0.04
14		Bis(2-Chloroisopropyl)ether	50.000	59.457	-18.9	116	-0.04
15		Acetophenone	50.000	51.254	-2.5	100	-0.04
16		3/4- METHYLPHENOL	100.000	108.290	-8.3	103	-0.05
17	P	N-Nitroso-Di-N-Propylamine	50.000	55.624	-11.2	109	-0.04
18		Hexachloroethane	50.000	52.465	-4.9	102	-0.04
19	I	NAPHTHALENE-d8	40.000	40.000	0.0	106	-0.04
20	S	Nitrobenzene-d5	50.000	53.075	-6.2	104	-0.04
21		NITROBENZENE	50.000	51.075	-2.2	100	-0.04
22		Isophorone	50.000	51.208	-2.4	102	-0.04
23	C	2-Nitrophenol	50.000	56.563	-13.1#	107	-0.04
24		2,4-Dimethylphenol	50.000	48.484	3.0	95	-0.04
25		Bis(2-Chloroethoxy)methane	50.000	52.895	-5.8	105	-0.04
26		Benzoic Acid	50.000	54.272	-8.5	105	-0.04
27	C	2,4-Dichlorophenol	50.000	49.032	1.9#	97	-0.04
28		1,2,4-Trichlorobenzene	50.000	49.761	0.5	98	-0.04
29		Naphthalene	50.000	52.170	-4.3	101	-0.04
30		4-Chloroaniline	50.000	45.008	10.0	89	-0.04
31	C	Hexachlorobutadiene	50.000	53.287	-6.6#	104	-0.04
32	C	4-Chloro-3-Methylphenol	50.000	52.585	-5.2#	103	-0.04
33		2-MethylNaphthalene	50.000	53.954	-7.9	104	-0.04
34		1-Methylnaphthalene	50.000	52.967	-5.9	103	-0.06
35	I	ACENAPHTHENE-D10	40.000	40.000	0.0	106	-0.04
36	S	2-Fluorobiphenyl	50.000	53.474	-6.9	103	-0.04
37	S	2,4,6-Tribromophenol	100.000	85.625	14.4	88	-0.04
38	P	Hexachlorocyclopentadiene	50.000	36.850	26.3#	70	-0.04
39		1,2,4,5-Tetrachlorobenzene	50.000	50.422	-0.8	98	-0.04
40	C	2,4,6-Trichlorophenol	50.000	49.349	1.3#	96	-0.04
41		2,4,5-Trichlorophenol	50.000	48.227	3.5	94	-0.05
42		2-ChloroNaphthalene	50.000	51.474	-2.9	103	-0.04
43		2-Nitroaniline	50.000	54.214	-8.4	105	-0.04
44		1,1-Biphenyl	50.000	53.863	-7.7	104	-0.04
45		DIMETHYL PHTHALATE	50.000	52.760	-5.5	104	-0.04
46		2,6-DinitroToluene	50.000	55.753	-11.5	106	-0.04
47		Acenaphthylene	50.000	48.927	2.1	95	-0.04
48		3-Nitroaniline	50.000	51.173	-2.3	98	-0.04
49	C	Acenaphthene	50.000	48.377	3.2#	94	-0.04
50	P	2,4-Dinitrophenol	50.000	52.635	-5.3	115	-0.04
51	P	4-Nitrophenol	50.000	53.148	-6.3	103	-0.05

Data Path : C:\msdchem\1\DATA\D051524\
Data File : D24S136004.D
Acq On : 15 May 2024 7:52 am
Operator : BGL
Sample : 8270 50 ppm 24C0900CC Inst : GCMSSV4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 15 08:06:57 2024
Quant Method : C:\msdchem\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Wed Apr 24 09:02:55 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 10% Max. R.T. Dev 1.00min
Max. RRF Dev : 20% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52		Dibenzofuran	50.000	50.790	-1.6	99	-0.04
53		2,4-Dinitrotoluene	50.000	54.887	-9.8	109	-0.04
54		DIETHYL PHTHALATE	50.000	54.865	-9.7	110	-0.04
55		4-Chlorophenyl phenyl ether	50.000	53.623	-7.2	106	-0.04
56		Flourene	50.000	50.908	-1.8	100	-0.04
57		4-Nitroaniline	50.000	49.681	0.6	96	-0.04
58	I	PHENANTHRENE-D10	40.000	40.000	0.0	106	-0.04
59		4,6-Dinitro-2-Methylphenol	50.000	54.833	-9.7	119	-0.04
60	C	N-Nitrosodiphenylamine	42.680	43.814	-2.7#	101	-0.04
61		1,2-Diphenylhydrazine	50.000	52.537	-5.1	105	-0.04
62		4-Bromophenyl phenyl ether	50.000	52.681	-5.4	104	-0.04
63		Hexachlorobenzene	50.000	47.767	4.5	93	-0.04
64	C	Pentachlorophenol	50.000	39.728	20.5#	76	-0.04
65		Pentachloronitrobenzene	50.000	49.841	0.3	96	-0.04
66		Phenanthrene	50.000	50.007	-0.0	98	-0.04
67		Anthracene	50.000	50.239	-0.5	98	-0.05
68		Carbazole	50.000	49.912	0.2	97	-0.04
69		Di-N-Butyl Phthalate	50.000	66.105	-32.2#	129	-0.04
70	C	Flouranthene	50.000	52.999	-6.0#	99	-0.05
71	I	CHRYSENE-D12	40.000	40.000	0.0	108	-0.07
72	S	Terphenyl-d14	50.000	55.703	-11.4	114	-0.06
73		Benzidine	50.000	13.576	72.8#	38	-0.05
74		Pyrene	50.000	48.172	3.7	97	-0.05
75		Butylbenzyl phthalate	50.000	65.006	-30.0#	129	-0.06
76		3,3'-Dichlorobenzidine	50.000	50.364	-0.7	99	-0.07
77		Benzo(a)anthracene	50.000	51.136	-2.3	101	-0.07
78		Chrysene	50.000	49.436	1.1	98	-0.07
79		Bis(2-ethylhexyl)phthalate	50.000	82.012	-64.0#	161	-0.08
80	I	PERYLENE-D12	40.000	40.000	0.0	102	-0.09
81	C	Di-n-octylphthalate	50.000	82.687	-65.4#	156	-0.09
82		Benzo(b)fluoranthene	50.000	52.126	-4.3	96	-0.08
83		Benzo(k)fluoranthene	50.000	52.474	-4.9	97	-0.08
84	C	Benzo(a)pyrene	50.000	51.483	-3.0#	95	-0.08
85		Indeno(1,2,3-cd)pyrene	50.000	56.377	-12.8	102	-0.06
86		Dibenz(a,h)anthracene	50.000	61.621	-23.2#	110	-0.06
87		Benzo(g,h,i)perylene	50.000	56.143	-12.3	102	-0.07

(#) = Out of Range SPCC's out = 0 CCC's out = 13

Evaluate Continuing Calibration Report

650

Data Path : C:\msdchem\1\DATA\D051524\
Data File : D24S136004.D
Acq On : 15 May 2024 7:52 am
Operator : BGL
Sample : 8270 50 ppm 24C0900CC Inst : GCMSSV4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 15 08:06:57 2024
Quant Method : C:\msdchem\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Wed Apr 24 09:02:55 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 10% Max. R.T. Dev 1.00min
Max. RRF Dev : 20% Max. Rel. Area : 500%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-D4	1.000	1.000	0.0	105	-0.04
2	S	2-Fluorophenol	0.974	1.002	-2.9	97	-0.04
3	S	Phenol-d6	1.546	1.608	-4.0	99	-0.04
4		N-Nitrosodimethylamine	0.825	0.787	4.6	93	-0.04
5		Pyridine	1.416	1.379	2.6	93	-0.04
6		Aniline	0.732	0.588	19.7	80	-0.04
7	C	Phenol	1.735	1.828	-5.4#	99	-0.04
8		Bis(2-chloroethyl)ether	0.904	0.944	-4.4	101	-0.04
9		2-Chlorophenol	1.351	1.439	-6.5	103	-0.04
10		1,3-Dichlorobenzene	1.551	1.605	-3.5	101	-0.04
11	C	1,4-Dichlorobenzene	1.553	1.624	-4.6#	101	-0.04
12		1,2-Dichlorobenzene	1.445	1.493	-3.3	100	-0.04
13		2- METHYLPHENOL	1.175	1.209	-2.9	100	-0.04
14		Bis(2-Chloroisopropyl)ether	1.197	1.423	-18.9	116	-0.04
15		Acetophenone	1.851	1.898	-2.5	100	-0.04
16		3/4- METHYLPHENOL	1.331	1.441	-8.3	103	-0.05
17	P	N-Nitroso-Di-N-Propylamine	0.986	1.097	-11.3	109	-0.04
18		Hexachloroethane	0.582	0.611	-5.0	102	-0.04
19	I	NAPHTHALENE-d8	1.000	1.000	0.0	106	-0.04
20	S	Nitrobenzene-d5	0.371	0.393	-5.9	104	-0.04
21		NITROBENZENE	0.408	0.417	-2.2	100	-0.04
22		Isophorone	0.682	0.698	-2.3	102	-0.04
23	C	2-Nitrophenol	0.186	0.210	-12.9#	107	-0.04
24		2,4-Dimethylphenol	0.337	0.326	3.3	95	-0.04
25		Bis(2-Chloroethoxy)methane	0.384	0.406	-5.7	105	-0.04
26		Benzoic Acid	0.211	0.229	-8.5	105	-0.04
27	C	2,4-Dichlorophenol	0.331	0.325	1.8#	97	-0.04
28		1,2,4-Trichlorobenzene	0.366	0.364	0.5	98	-0.04
29		Naphthalene	0.996	1.039	-4.3	101	-0.04
30		4-Chloroaniline	0.408	0.367	10.0	89	-0.04
31	C	Hexachlorobutadiene	0.210	0.223	-6.2#	104	-0.04
32	C	4-Chloro-3-Methylphenol	0.322	0.339	-5.3#	103	-0.04
33		2-MethylNaphthalene	0.683	0.737	-7.9	104	-0.04
34		1-Methylnaphthalene	0.628	0.665	-5.9	103	-0.06
35	I	ACENAPHTHENE-D10	1.000	1.000	0.0	106	-0.04
36	S	2-Fluorobiphenyl	1.227	1.312	-6.9	103	-0.04
37	S	2,4,6-Tribromophenol	0.208	0.179	13.9	88	-0.04
38	P	Hexachlorocyclopentadiene	0.393	0.290	26.2#	70	-0.04
39		1,2,4,5-Tetrachlorobenzene	0.653	0.658	-0.8	98	-0.04
40	C	2,4,6-Trichlorophenol	0.425	0.420	1.2#	96	-0.04
41		2,4,5-Trichlorophenol	0.441	0.425	3.6	94	-0.05
42		2-ChloroNaphthalene	1.404	1.445	-2.9	103	-0.04
43		2-Nitroaniline	0.338	0.367	-8.6	105	-0.04
44		1,1-Biphenyl	1.377	1.484	-7.8	104	-0.04
45		DIMETHYL PHTHALATE	1.313	1.385	-5.5	104	-0.04
46		2,6-DinitroToluene	0.273	0.304	-11.4	106	-0.04
47		Acenaphthylene	1.807	1.768	2.2	95	-0.04
48		3-Nitroaniline	0.286	0.293	-2.4	98	-0.04
49	C	Acenaphthene	1.114	1.078	3.2#	94	-0.04
50	P	2,4-Dinitrophenol	0.129	0.156	-20.9#	115	-0.04
51	P	4-Nitrophenol	0.207	0.220	-6.3	103	-0.05

Data Path : C:\msdchem\1\DATA\D051524\
Data File : D24S136004.D
Acq On : 15 May 2024 7:52 am
Operator : BGL
Sample : 8270 50 ppm 24C0900CC Inst : GCMSSV4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 15 08:06:57 2024
Quant Method : C:\msdchem\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Wed Apr 24 09:02:55 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 10% Max. R.T. Dev 1.00min
Max. RRF Dev : 20% Max. Rel. Area : 500%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
52		Dibenzofuran	1.589	1.615	-1.6	99	-0.04
53		2,4-Dinitrotoluene	0.382	0.420	-9.9	109	-0.04
54		DIETHYL PHTHALATE	1.286	1.411	-9.7	110	-0.04
55		4-Chlorophenyl phenyl ether	0.652	0.699	-7.2	106	-0.04
56		Flourene	1.324	1.348	-1.8	100	-0.04
57		4-Nitroaniline	0.313	0.311	0.6	96	-0.04
58	I	PHENANTHRENE-D10	1.000	1.000	0.0	106	-0.04
59		4,6-Dinitro-2-Methylphenol	0.105	0.127	-21.0#	119	-0.04
60	C	N-Nitrosodiphenylamine	0.566	0.581	-2.7#	101	-0.04
61		1,2-Diphenylhydrazine	0.713	0.750	-5.2	105	-0.04
62		4-Bromophenyl phenyl ether	0.209	0.220	-5.3	104	-0.04
63		Hexachlorobenzene	0.240	0.229	4.6	93	-0.04
64	C	Pentachlorophenol	0.175	0.139	20.6#	76	-0.04
65		Pentachloronitrobenzene	0.042	0.041	2.4	96	-0.04
66		Phenanthrene	1.044	1.044	0.0	98	-0.04
67		Anthracene	1.052	1.057	-0.5	98	-0.05
68		Carbazole	1.002	1.000	0.2	97	-0.04
69		Di-N-Butyl Phthalate	1.188	1.571	-32.2#	129	-0.04
70	C	Flouranthene	1.231	1.305	-6.0#	99	-0.05
71	I	CHRYSENE-D12	1.000	1.000	0.0	108	-0.07
72	S	Terphenyl-d14	0.807	0.899	-11.4	114	-0.06
73		Benzidine	0.401	0.109	72.8#	38	-0.05
74		Pyrene	1.410	1.358	3.7	97	-0.05
75		Butylbenzyl phthalate	0.613	0.797	-30.0#	129	-0.06
76		3,3'-Dichlorobenzidine	0.491	0.495	-0.8	99	-0.07
77		Benzo(a)anthracene	1.402	1.434	-2.3	101	-0.07
78		Chrysene	1.306	1.292	1.1	98	-0.07
79		Bis(2-ethylhexyl)phthalate	0.768	1.259	-63.9#	161	-0.08
80	I	PERYLENE-D12	1.000	1.000	0.0	102	-0.09
81	C	Di-n-octylphthalate	1.346	2.225	-65.3#	156	-0.09
82		Benzo(b)fluoranthene	1.367	1.425	-4.2	96	-0.08
83		Benzo(k)fluoranthene	1.196	1.255	-4.9	97	-0.08
84	C	Benzo(a)pyrene	1.189	1.224	-2.9#	95	-0.08
85		Indeno(1,2,3-cd)pyrene	0.974	1.098	-12.7	102	-0.06
86		Dibenz(a,h)anthracene	0.946	1.166	-23.3#	110	-0.06
87		Benzo(g,h,i)perylene	0.919	1.031	-12.2	102	-0.07

(#) = Out of Range SPCC's out = 0 CCC's out = 13

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8270E

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	GCMSSV4	Calibration:	2400207
Lab File ID:	D24S136003.D	Calibration Date:	02/15/24 10:46
Sequence:	S104589	Injection Date:	05/15/24
Lab Sample ID:	S104589-CCV2	Injection Time:	07:33

		CONC. (µg/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
2,3,4,6-Tetrachlorophenol	A	50.0	47.8	0.145784	0.2788338		91.3	20	*
Atrazine	A	50.0	54.8	0.3948915	0.4324374		9.5	20	
Benzaldehyde	A	50.0	52.6	1.101015	1.159149		5.3	20	
Caprolactam	A	50.0	49.0	0.1046827	0.1025278		-2.1	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Quantitation Report (QT Reviewed)

653

Data Path : C:\msdchem\1\DATA\D051524\
Data File : D24S136003.D
Acq On : 15 May 2024 7:33 am
Operator : BGL
Sample : NCExtras 50 ppm 24C0439 Inst : GCMSSV4
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 15 08:05:59 2024
Quant Method : C:\msdchem\1\METHODS\NCD02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270STD SVMS4 N.C. apx2 extra compds PulseWool
QLast Update : Wed May 08 09:56:00 2024
Response via : Initial Calibration

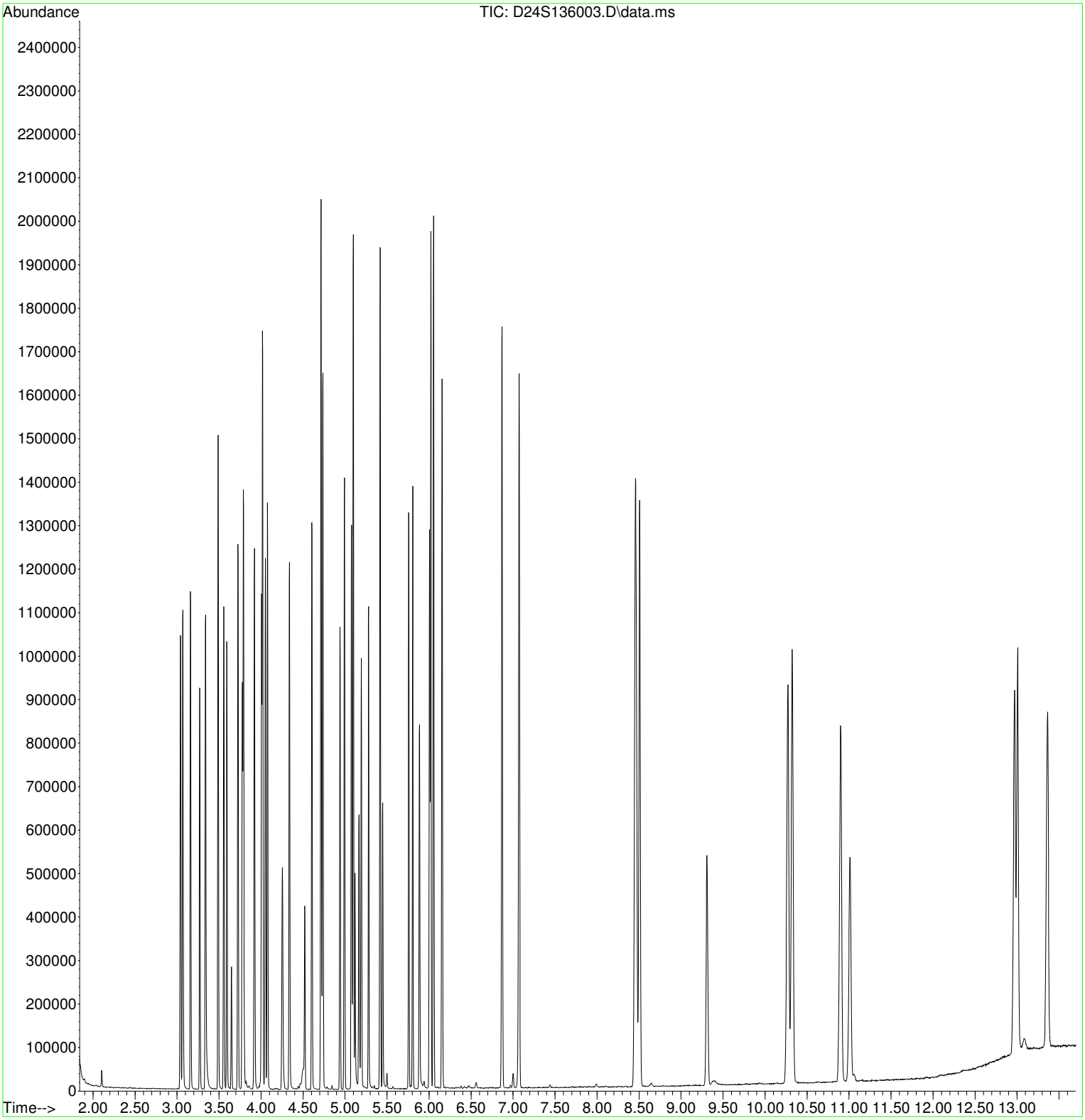
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-D4...	3.271	152	89623	40.00	ug/ml	-0.03
6) NAPHTHALENE-d8 (2)	4.005	136	336775	40.00	ug/ml	-0.04
10) ACENAPHTHENE-D10 (2)	5.078	164	191532	40.00	ug/ml	-0.04
16) PHENANTHRENE-D10 (2)	6.005	188	328033	40.00	ug/ml	-0.04
17) CHRYSENE-D12 (2)	8.469	240	312677	40.00	ug/ml	-0.16
19) PERYLENE-D12 (2)	11.011	264	314672	40.00	ug/ml	-0.23
System Monitoring Compounds						
2) 2-Fluorophenol	0.000	112	0	0.00	ug/ml	
Spiked Amount 200.000	Range 30 - 130		Recovery =	0.00%#		
3) Phenol-d6	3.160	99	12037	0.00	ug/ml	-0.03
Spiked Amount 200.000	Range 30 - 130		Recovery =	0.00%#		
7) Nitrobenzene-d5	3.557	82	23091	0.00	ug/ml	-0.04
Spiked Amount 100.000	Range 30 - 130		Recovery =	0.00%#		
11) 2-Fluorobiphenyl	4.605	172	32	0.00	ug/ml	-0.03
Spiked Amount 100.000	Range 30 - 130		Recovery =	0.00%#		
12) 2,4,6-Tribromophenol	0.000	330	0	0.00	ug/ml	
Spiked Amount 200.000	Range 30 - 130		Recovery =	0.00%#		
18) Terphenyl-d14	7.195	244	196	0.00	ug/ml	-0.11
Spiked Amount 100.000	Range 30 - 130		Recovery =	0.00%#		
Target Compounds						Qvalue
4) Benzaldehyde	3.042	106	129858	52.64	ug/ml	97
5) Benzyl Alcohol	3.341	108	116261	56.56	ug/ml	98
8) 2,6-Dichlorophenol	4.051	162	145935	49.15	ug/ml	93
9) Caprolactam	4.255	113	43161	48.97	ug/ml#	83
13) Biphenyl	4.715	154	420967	53.75	ug/ml	98
14) 2,3,4,6-Tetrachlorophenol	5.282	230	66757	47.82	ug/ml	98
15) Atrazine	5.807	200	103532	54.75	ug/ml	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\D051524\
Data File : D24S136003.D
Acq On : 15 May 2024 7:33 am
Operator : BGL
Sample : NCExtras 50 ppm 24C0439 Inst : GCMSSV4
Misc :
ALS Vial : 3 Sample Multiplier: 1

654

Quant Time: May 15 08:05:59 2024
Quant Method : C:\msdchem\1\METHODS\NCD02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270STD SVMS4 N.C. apx2 extra compds PulseWool
QLast Update : Wed May 08 09:56:00 2024
Response via : Initial Calibration



Evaluate Continuing Calibration Report

655

Data Path : C:\msdchem\1\DATA\D051524\
Data File : D24S136003.D
Acq On : 15 May 2024 7:33 am
Operator : BGL
Sample : NCExtras 50 ppm 24C0439 Inst : GCMSSV4
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 15 08:05:59 2024
Quant Method : C:\msdchem\1\METHODS\NCD02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270STD SVMS4 N.C. apx2 extra compds PulseWool
QLast Update : Wed May 08 09:56:00 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-D4 (2)	1.000	1.000	0.0	81	-0.03
2	S	2-Fluorophenol	0.000	0.000	0.0	0#	-2.73#
3	S	Phenol-d6	0.000	0.107	0.0	0#	-0.03
4		Benzaldehyde	1.101	1.159	-5.3	92	-0.03
5		Benzyl Alcohol	0.917	1.038	-13.2	99	-0.03
6	I	NAPHTHALENE-d8 (2)	1.000	1.000	0.0	85	-0.04
7	S	Nitrobenzene-d5	0.000	0.055	0.0	0#	-0.04
8		2,6-Dichlorophenol	0.353	0.347	1.7	90	-0.03
9		Caprolactam	0.105	0.103	1.9	90	-0.03
10	I	ACENAPHTHENE-D10 (2)	1.000	1.000	0.0	84	-0.04
11	S	2-Fluorobiphenyl	0.000	0.000	0.0	0#	-0.03
12	S	2,4,6-Tribromophenol	0.000	0.000	0.0	0#	-5.71#
13		Biphenyl	1.636	1.758	-7.5	98	-0.04
14		2,3,4,6-Tetrachlorophenol	0.292	0.279	4.5	85	-0.03
15		Atrazine	0.395	0.432	-9.4	100	-0.04
16	I	PHENANTHRENE-D10 (2)	1.000	1.000	0.0	80	-0.04
17	I	CHRYSENE-D12 (2)	1.000	1.000	0.0	83	-0.16
18	S	Terphenyl-d14	0.000	0.001	0.0	0#	-0.11
19	I	PERYLENE-D12 (2)	1.000	1.000	0.0	81	-0.23

(#) = Out of Range SPCC's out = 0 CCC's out = 0

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8270E

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	GCMSSV4	Calibration:	2400207
Lab File ID:	D24S137002.D	Calibration Date:	02/15/24 10:46
Sequence:	S104909	Injection Date:	05/16/24
Lab Sample ID:	S104909-CCV1	Injection Time:	12:30

		CONC. (µg/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Biphenyl	A	50.0	49.7	1.37721	1.368436		-0.6	20	
Acenaphthene	A	50.0	45.7	1.114086	1.018705		-8.6	20	
Acenaphthylene	A	50.0	46.5	1.806532	1.678868		-7.1	20	
Acetophenone	A	50.0	52.5	1.851454	1.943724		5.0	20	
Aniline	A	50.0	44.3	0.7316449	0.6480144		-11.4	20	
Anthracene	A	50.0	46.9	1.052128	0.9866456		-6.2	20	
Benzo(a)anthracene	A	50.0	47.1	1.401704	1.321382		-5.7	20	
Benzo(a)pyrene	A	50.0	47.4	1.188886	1.127313		-5.2	20	
Benzo(b)fluoranthene	A	50.0	47.5	1.366657	1.298819		-5.0	20	
Benzo(g,h,i)perylene	A	50.0	50.8	0.9185311	0.9329783		1.6	20	
Benzo(k)fluoranthene	A	50.0	48.3	1.196214	1.15527		-3.4	20	
Bis(2-chloroethoxy)methane	A	50.0	52.0	0.3835807	0.3992216		4.1	20	
Bis(2-chloroethyl)ether	A	50.0	56.5	0.9040686	1.021843		13.0	20	
Bis(2-chloroisopropyl)ether	A	50.0	64.4	1.196667	1.542466		28.9	20	*
Bis(2-Ethylhexyl)phthalate	A	50.0	61.7	0.7676298	0.9474967		23.4	20	*
4-Bromophenylphenylether	A	50.0	45.6	0.2092027	0.1906421		-8.9	20	
Butylbenzylphthalate	A	50.0	55.3	0.6128298	0.6778636		10.6	20	
Carbazole	A	50.0	48.1	1.001727	0.9634094		-3.8	20	
4-Chloroaniline	A	50.0	45.8	0.4075702	0.3729495		-8.5	20	
4-Chloro-3-methylphenol	A	50.0	53.7	0.322124	0.3461543		7.5	20	
2-Chloronaphthalene	A	50.0	49.3	1.403588	1.384046		-1.4	20	
2-Chlorophenol	A	50.0	54.2	1.350922	1.463554		8.3	20	
4-Chlorophenylphenylether	A	50.0	48.3	0.6518878	0.6297601		-3.4	20	
Chrysene	A	50.0	46.1	1.306331	1.204813		-7.8	20	
Dibenz(a,h)anthracene	A	50.0	54.3	0.9462443	1.027853		8.6	20	
Dibenzofuran	A	50.0	48.1	1.589415	1.528821		-3.8	20	
Di-n-butylphthalate	A	50.0	55.3	1.188429	1.315276		10.7	20	
3,3-Dichlorobenzidine	A	50.0	44.3	0.4911862	0.4347572		-11.5	20	
2,4-Dichlorophenol	A	50.0	47.3	0.3313699	0.3131932		-5.5	20	
Diethylphthalate	A	50.0	51.7	1.286012	1.329548		3.4	20	

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8270E

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	GCMSSV4	Calibration:	2400207
Lab File ID:	D24S137002.D	Calibration Date:	02/15/24 10:46
Sequence:	S104909	Injection Date:	05/16/24
Lab Sample ID:	S104909-CCV1	Injection Time:	12:30

		CONC. (µg/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
2,4-Dimethylphenol	A	50.0	48.1	0.3365345	0.3237118		-3.8	20	
Dimethylphthalate	A	50.0	49.6	1.312734	1.303169		-0.7	20	
4,6-Dinitro-2-methylphenol	L	50.0	53.3	0.1051184	0.1228317		6.6	20	
2,4-Dinitrophenol	L	50.0	53.6	0.1287056	0.1589916		7.3	20	
2,4-Dinitrotoluene	A	50.0	55.4	0.3822645	0.4235036		10.8	20	
2,6-Dinitrotoluene	A	50.0	54.8	0.2730183	0.2990868		9.5	20	
Di-n-octylphthalate	A	50.0	61.6	1.345619	1.656454		23.1	20	*
Fluoranthene	A	50.0	48.1	1.231443	1.184805		-3.8	20	
Fluorene	A	50.0	48.3	1.323734	1.278348		-3.4	20	
Hexachlorobenzene	A	50.0	42.1	0.2397654	0.2017689		-15.8	20	
Hexachlorobutadiene	A	50.0	50.2	0.2096549	0.210683		0.5	20	
Hexachlorocyclopentadiene	A	50.0	32.5	0.3930716	0.2558331		-34.9	20	*
Hexachloroethane	A	50.0	54.4	0.5818572	0.6329088		8.8	20	
Indeno(1,2,3-cd)pyrene	A	50.0	51.3	0.9737835	0.9995717		2.6	20	
Isophorone	A	50.0	52.7	0.6817735	0.7181238		5.3	20	
1-Methylnaphthalene	A	50.0	51.5	0.6278239	0.6469691		3.0	20	
2-Methylnaphthalene	A	50.0	51.9	0.6826738	0.7081722		3.7	20	
2-Methylphenol	A	50.0	52.7	1.17515	1.238885		5.4	20	
3/4-Methylphenol	A	100	111	1.330932	1.472143		10.6	20	
Naphthalene	A	50.0	52.0	0.9957644	1.035349		4.0	20	
2-Nitroaniline	A	50.0	59.2	0.3383672	0.4008659		18.5	20	
3-Nitroaniline	A	50.0	54.1	0.2863291	0.3096666		8.2	20	
4-Nitroaniline	A	50.0	52.8	0.3125004	0.3297711		5.5	20	
Nitrobenzene	A	50.0	54.2	0.4083542	0.4422493		8.3	20	
2-Nitrophenol	A	50.0	56.5	0.1856927	0.2097347		12.9	20	
4-Nitrophenol	A	50.0	57.8	0.2068792	0.2389505		15.5	20	
N-Nitrosodiphenylamine/Diphenylamine	A	42.8	39.5	0.5642422	0.5220373		-7.5	20	
N-Nitrosodi-n-propylamine	A	50.0	57.6	0.9860724	1.13684		15.3	20	
Pentachlorophenol	A	50.0	36.4	0.1752894	0.1277374		-27.1	20	*
Phenanthrene	A	50.0	46.7	1.043931	0.9742856		-6.7	20	

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8270E

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	GCMSSV4	Calibration:	2400207
Lab File ID:	D24S137002.D	Calibration Date:	02/15/24 10:46
Sequence:	S104909	Injection Date:	05/16/24
Lab Sample ID:	S104909-CCV1	Injection Time:	12:30

		CONC. (µg/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Phenol	A	50.0	54.9	1.735103	1.905593		9.8	20
Pyrene	A	50.0	48.6	1.409739	1.369192		-2.9	20
Pyridine	A	50.0	52.9	1.41571	1.49862		5.9	20
1,2,4,5-Tetrachlorobenzene	A	50.0	45.8	0.6528262	0.59823		-8.4	20
2,4,5-Trichlorophenol	A	50.0	45.6	0.4405842	0.4019694		-8.8	20
2,4,6-Trichlorophenol	A	50.0	45.8	0.425267	0.3897826		-8.3	20
2-Fluorophenol	A	100	108	0.9744759	1.048307		7.6	
Phenol-d6	A	100	110	1.545596	1.693517		9.6	
Nitrobenzene-d5	A	50.0	56.1	0.3705509	0.4159209		12.2	
2-Fluorobiphenyl	A	50.0	48.4	1.227179	1.18698		-3.3	
2,4,6-Tribromophenol	A	100	78.5	0.2084999	0.1637519		-21.5	
p-Terphenyl-d14	A	50.0	51.1	0.8071469	0.8252954		2.2	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D051624\
Data File : D24S137002.D
Acq On : 16 May 2024 12:30 pm
Operator : BGL
Sample : 8270 50ppm std 24C0900 Inst : GCMSSV4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 16 12:42:14 2024
Quant Method : C:\MSDCHEM\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Wed Apr 24 09:02:55 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-D4	3.283	152	90298	40.00	ug/ml	-0.03
19) NAPHTHALENE-d8	4.017	136	327343	40.00	ug/ml	-0.03
35) ACENAPHTHENE-D10	5.088	164	198642	40.00	ug/ml	-0.03
58) PHENANTHRENE-D10	6.017	188	380130	40.00	ug/ml	-0.03
71) CHRYSENE-D12	8.491	240	345011	40.00	ug/ml	-0.05
80) PERYLENE-D12	11.046	264	330135	40.00	ug/ml	-0.05
System Monitoring Compounds						
2) 2-Fluorophenol	2.613	112	236650	107.58	ug/ml	-0.03
Spiked Amount 200.000	Range 30 - 130		Recovery = 53.79%			
3) Phenol-d6	3.074	99	382303	109.57	ug/ml	-0.03
Spiked Amount 200.000	Range 30 - 130		Recovery = 54.78%			
20) Nitrobenzene-d5	3.594	82	170186	56.12	ug/ml	-0.03
Spiked Amount 100.000	Range 30 - 130		Recovery = 56.12%			
36) 2-Fluorobiphenyl	4.660	172	294730	48.36	ug/ml	-0.03
Spiked Amount 100.000	Range 30 - 130		Recovery = 48.36%			
37) 2,4,6-Tribromophenol	5.582	330	81320	78.54	ug/ml	-0.03
Spiked Amount 200.000	Range 30 - 130		Recovery = 39.27%			
72) Terphenyl-d14	7.207	244	355920	51.12	ug/ml	-0.04
Spiked Amount 100.000	Range 30 - 130		Recovery = 51.12%			
Target Compounds						Qvalue
4) N-Nitrosodimethylamine	1.967	42	105517	56.64	ug/ml	95
5) Pyridine	1.995	79	169153	52.93	ug/ml	90
6) Aniline	3.105	66	73143	44.28	ug/ml#	85
7) Phenol	3.082	94	215089	54.91	ug/ml	98
8) Bis(2-chloroethyl)ether	3.123	63	115338	56.51	ug/ml	95
9) 2-Chlorophenol	3.172	128	165195	54.17	ug/ml	96
10) 1,3-Dichlorobenzene	3.252	146	181517	51.86	ug/ml	97
11) 1,4-Dichlorobenzene	3.290	146	184815	52.71	ug/ml	97
12) 1,2-Dichlorobenzene	3.378	146	169175	51.85	ug/ml	98
13) 2- METHYLPHENOL	3.409	108	139836	52.71	ug/ml#	81
14) Bis(2-Chloroisopropyl)...	3.414	45	174102	64.45	ug/ml#	56
15) Acetophenone	3.502	105	219393	52.49	ug/ml#	49
16) 3/4- METHYLPHENOL	3.494	107	332329	110.61	ug/ml#	72
17) N-Nitroso-Di-N-Propyla...	3.491	70	128318	57.64	ug/ml	88
18) Hexachloroethane	3.566	117	71438	54.39	ug/ml	94
21) NITROBENZENE	3.605	77	180959	54.15	ug/ml	99
22) Isophorone	3.736	82	293841	52.67	ug/ml	99
23) 2-Nitrophenol	3.787	139	85819	56.47	ug/ml	94
24) 2,4-Dimethylphenol	3.800	122	132456	48.09	ug/ml	91
25) Bis(2-Chloroethoxy)met...	3.849	93	163353	52.04	ug/ml	94
26) Benzoic Acid	3.859	122	96297	55.70	ug/ml	92
27) 2,4-Dichlorophenol	3.932	162	128152	47.26	ug/ml	96
28) 1,2,4-Trichlorobenzene	3.978	180	144423	48.25	ug/ml	99
29) Naphthalene	4.029	128	423643	51.99	ug/ml	100
30) 4-Chloroaniline	4.058	127	152603	45.75	ug/ml	95
31) Hexachlorobutadiene	4.086	225	86207	50.25	ug/ml	100
32) 4-Chloro-3-Methylphenol	4.349	107	141639	53.73	ug/ml	96
33) 2-MethylNaphthalene	4.444	142	289769	51.87	ug/ml	98
34) 1-Methylnaphthalene	4.506	142	264726	51.52	ug/ml	97
38) Hexachlorocyclopentadiene	4.531	237	63524	32.54	ug/ml	99
39) 1,2,4,5-Tetrachloroben...	4.544	216	148542	45.82	ug/ml	98
40) 2,4,6-Trichlorophenol	4.616	196	96784	45.83	ug/ml	100
41) 2,4,5-Trichlorophenol	4.650	196	99810	45.62	ug/ml	99
42) 2-ChloroNaphthalene	4.748	162	343662	49.30	ug/ml	97

Data Path : C:\msdchem\1\DATA\D051624\
Data File : D24S137002.D
Acq On : 16 May 2024 12:30 pm
Operator : BGL
Sample : 8270 50ppm std 24C0900 Inst : GCMSSV4
Misc :
ALS Vial : 2 Sample Multiplier: 1

660

Quant Time: May 16 12:42:14 2024
Quant Method : C:\MSDCHEM\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Wed Apr 24 09:02:55 2024
Response via : Initial Calibration

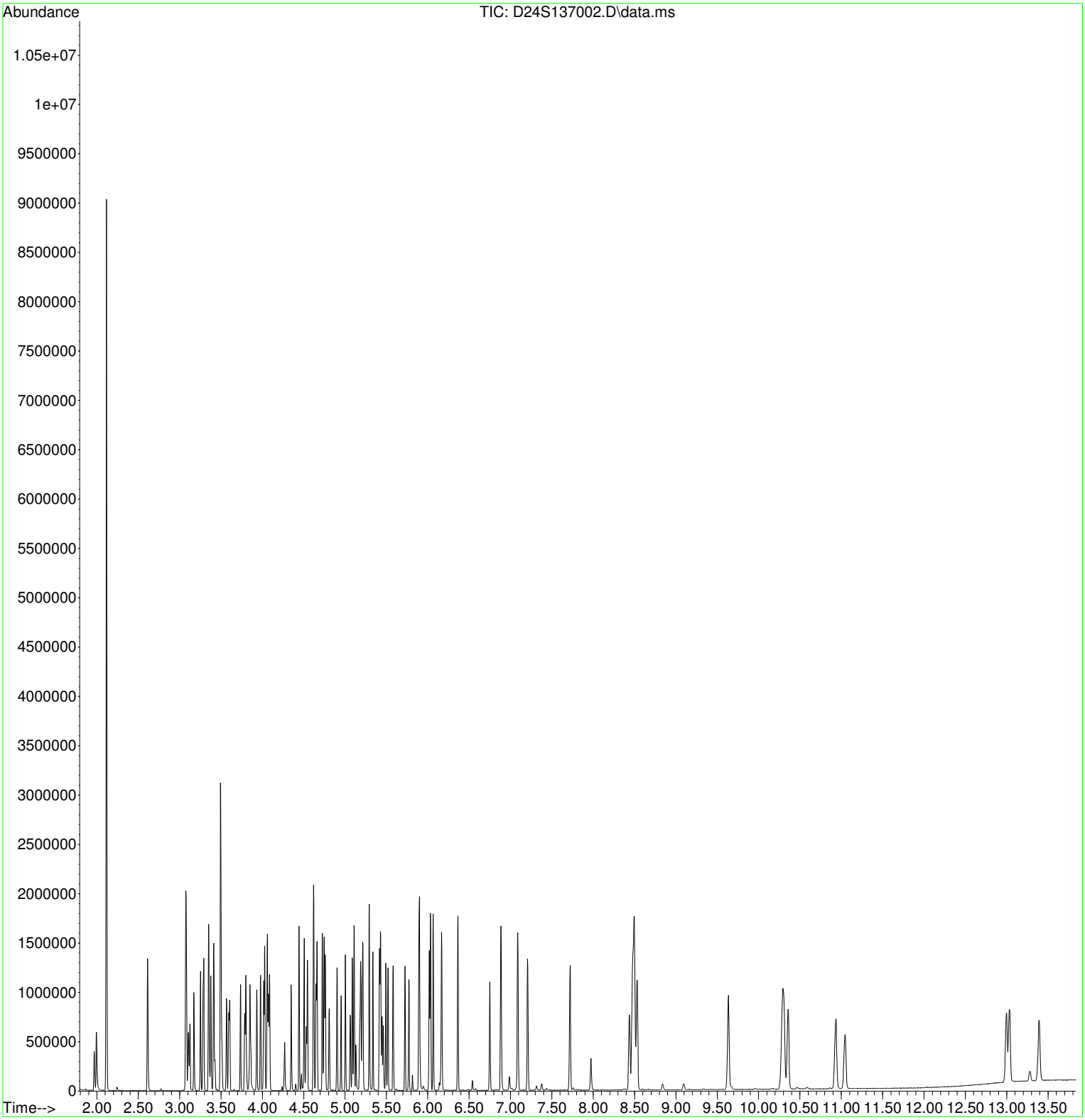
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) 2-Nitroaniline	4.810	65	99536	59.24	ug/ml	92
44) 1,1-Biphenyl	4.727	154	339786	49.68	ug/ml	98
45) DIMETHYL PHTHALATE	4.902	163	323580	49.64	ug/ml	100
46) 2,6-DinitroToluene	4.951	165	74264	54.77	ug/ml	97
47) Acenaphthylene	5.005	152	416867	46.47	ug/ml	98
48) 3-Nitroaniline	5.064	138	76891	54.08	ug/ml	98
49) Acenaphthene	5.108	154	252947	45.72	ug/ml	95
50) 2,4-Dinitrophenol	5.131	184	39478	53.64	ug/ml#	1
51) 4-Nitrophenol	5.178	109	59332	57.75	ug/ml	91
52) Dibenzofuran	5.216	168	379610	48.09	ug/ml	97
53) 2,4-Dinitrotoluene	5.206	165	105157	55.39	ug/ml#	79
54) DIETHYL PHTHALATE	5.337	149	330130	51.69	ug/ml	99
55) 4-Chlorophenyl phenyl ...	5.417	204	156371	48.30	ug/ml	97
56) Flourene	5.430	166	317417	48.29	ug/ml	99
57) 4-Nitroaniline	5.446	138	81883	52.76	ug/ml	97
59) 4,6-Dinitro-2-Methylph...	5.464	198	58365	53.31	ug/ml	92
60) N-Nitrosodiphenylamine	5.494	169	212333	39.48	ug/ml	98
61) 1,2-Diphenylhydrazine	5.518	77	337127	49.73	ug/ml	96
62) 4-Bromophenyl phenyl e...	5.724	248	90586	45.56	ug/ml	97
63) Hexachlorobenzene	5.773	284	95873	42.08	ug/ml	92
64) Pentachlorophenol	5.899	266	60696	36.44	ug/ml	99
65) Pentachloronitrobenzene	5.901	295	17508	44.27	ug/ml#	76
66) Phenanthrene	6.033	178	462944	46.66	ug/ml	99
67) Anthracene	6.066	178	468817	46.89	ug/ml	99
68) Carbazole	6.166	167	457776	48.09	ug/ml	99
69) Di-N-Butyl Phthalate	6.365	149	624970	55.34	ug/ml	100
70) Flouranthene	6.885	202	562975	48.11	ug/ml	98
73) Benzidine	6.988	184	51955	15.03	ug/ml	99
74) Pyrene	7.088	202	590483	48.56	ug/ml	100
75) Butylbenzyl phthalate	7.722	149	292338	55.31	ug/ml	97
76) 3,3'-Dichlorobenzidine	8.437	252	187495	44.26	ug/ml	98
77) Benzo(a)anthracene	8.476	228	569864	47.13	ug/ml	100
78) Chrysene	8.530	228	519592	46.11	ug/ml	100
79) Bis(2-ethylhexyl)phtha...	8.499	149	408621	61.72	ug/ml	100
81) Di-n-octylphthalate	9.635	149	683567	61.55	ug/ml	96
82) Benzo(b)fluoranthene	10.307	252	535982	47.52	ug/ml	98
83) Benzo(k)fluoranthene	10.358	252	476744	48.29	ug/ml	97
84) Benzo(a)pyrene	10.935	252	465207	47.41	ug/ml	98
85) Indeno(1,2,3-cd)pyrene	12.997	276	412492	51.32	ug/ml	97
86) Dibenz(a,h)anthracene	13.036	278	424163	54.31	ug/ml	100
87) Benzo(g,h,i)perylene	13.394	276	385011	50.79	ug/ml	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\D051624\
Data File : D24S137002.D
Acq On : 16 May 2024 12:30 pm
Operator : BGL
Sample : 8270 50ppm std 24C0900 Inst : GCMSSV4
Misc :
ALS Vial : 2 Sample Multiplier: 1

661

Quant Time: May 16 12:42:14 2024
Quant Method : C:\MSDCHEM\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Wed Apr 24 09:02:55 2024
Response via : Initial Calibration



Evaluate Continuing Calibration Report

662

Data Path : C:\msdchem\1\DATA\D051624\
Data File : D24S137002.D
Acq On : 16 May 2024 12:30 pm
Operator : BGL
Sample : 8270 50ppm std 24C0900 Inst : GCMSSV4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 16 12:42:14 2024
Quant Method : C:\MSDCHEM\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Wed Apr 24 09:02:55 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 10% Max. R.T. Dev 1.00min
Max. RRF Dev : 20% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-D4	40.000	40.000	0.0	96	-0.03
2	S	2-Fluorophenol	100.000	107.576	-7.6	93	-0.03
3	S	Phenol-d6	100.000	109.570	-9.6	95	-0.03
4		N-Nitrosodimethylamine	50.000	56.642	-13.3	101	-0.03
5		Pyridine	50.000	52.928	-5.9	92	-0.03
6		Aniline	50.000	44.285	11.4	80	-0.03
7	C	Phenol	50.000	54.913	-9.8#	94	-0.03
8		Bis(2-chloroethyl)ether	50.000	56.514	-13.0	100	-0.03
9		2-Chlorophenol	50.000	54.169	-8.3	95	-0.03
10		1,3-Dichlorobenzene	50.000	51.856	-3.7	92	-0.03
11	C	1,4-Dichlorobenzene	50.000	52.711	-5.4#	93	-0.03
12		1,2-Dichlorobenzene	50.000	51.847	-3.7	92	-0.03
13		2- METHYLPHENOL	50.000	52.712	-5.4	94	-0.03
14		Bis(2-Chloroisopropyl)ether	50.000	64.448	-28.9#	115	-0.03
15		Acetophenone	50.000	52.492	-5.0	93	-0.03
16		3/4- METHYLPHENOL	100.000	110.610	-10.6	95	-0.04
17	P	N-Nitroso-Di-N-Propylamine	50.000	57.645	-15.3	103	-0.03
18		Hexachloroethane	50.000	54.387	-8.8	97	-0.03
19	I	NAPHTHALENE-d8	40.000	40.000	0.0	96	-0.03
20	S	Nitrobenzene-d5	50.000	56.122	-12.2	100	-0.03
21		NITROBENZENE	50.000	54.150	-8.3	96	-0.03
22		Isophorone	50.000	52.666	-5.3	95	-0.03
23	C	2-Nitrophenol	50.000	56.474	-12.9#	97	-0.03
24		2,4-Dimethylphenol	50.000	48.095	3.8	85	-0.03
25		Bis(2-Chloroethoxy)methane	50.000	52.039	-4.1	93	-0.03
26		Benzoic Acid	50.000	55.697	-11.4	98	-0.02
27	C	2,4-Dichlorophenol	50.000	47.257	5.5#	84	-0.03
28		1,2,4-Trichlorobenzene	50.000	48.246	3.5	86	-0.03
29		Naphthalene	50.000	51.988	-4.0	91	-0.03
30		4-Chloroaniline	50.000	45.753	8.5	82	-0.03
31	C	Hexachlorobutadiene	50.000	50.245	-0.5#	89	-0.03
32	C	4-Chloro-3-Methylphenol	50.000	53.730	-7.5#	96	-0.03
33		2-MethylNaphthalene	50.000	51.868	-3.7	91	-0.03
34		1-Methylnaphthalene	50.000	51.525	-3.0	91	-0.05
35	I	ACENAPHTHENE-D10	40.000	40.000	0.0	100	-0.03
36	S	2-Fluorobiphenyl	50.000	48.362	3.3	88	-0.03
37	S	2,4,6-Tribromophenol	100.000	78.538	21.5#	76	-0.03
38	P	Hexachlorocyclopentadiene	50.000	32.543	34.9#	58	-0.03
39		1,2,4,5-Tetrachlorobenzene	50.000	45.818	8.4	84	-0.03
40	C	2,4,6-Trichlorophenol	50.000	45.828	8.3#	84	-0.03
41		2,4,5-Trichlorophenol	50.000	45.618	8.8	84	-0.03
42		2-ChloroNaphthalene	50.000	49.304	1.4	93	-0.03
43		2-Nitroaniline	50.000	59.235	-18.5	108	-0.03
44		1,1-Biphenyl	50.000	49.681	0.6	91	-0.03
45		DIMETHYL PHTHALATE	50.000	49.636	0.7	92	-0.03
46		2,6-DinitroToluene	50.000	54.774	-9.5	98	-0.03
47		Acenaphthylene	50.000	46.467	7.1	85	-0.03
48		3-Nitroaniline	50.000	54.075	-8.2	97	-0.03
49	C	Acenaphthene	50.000	45.719	8.6#	84	-0.03
50	P	2,4-Dinitrophenol	50.000	53.643	-7.3	110	-0.02
51	P	4-Nitrophenol	50.000	57.751	-15.5	106	-0.04

Data Path : C:\msdchem\1\DATA\D051624\
Data File : D24S137002.D
Acq On : 16 May 2024 12:30 pm
Operator : BGL
Sample : 8270 50ppm std 24C0900 Inst : GCMSSV4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 16 12:42:14 2024
Quant Method : C:\MSDCHEM\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Wed Apr 24 09:02:55 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 10% Max. R.T. Dev 1.00min
Max. RRF Dev : 20% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52		Dibenzofuran	50.000	48.094	3.8	89	-0.03
53		2,4-Dinitrotoluene	50.000	55.394	-10.8	103	-0.03
54		DIETHYL PHTHALATE	50.000	51.693	-3.4	97	-0.03
55		4-Chlorophenyl phenyl ether	50.000	48.303	3.4	90	-0.03
56		Flourene	50.000	48.286	3.4	89	-0.03
57		4-Nitroaniline	50.000	52.763	-5.5	95	-0.03
58	I	PHENANTHRENE-D10	40.000	40.000	0.0	105	-0.03
59		4,6-Dinitro-2-Methylphenol	50.000	53.307	-6.6	114	-0.02
60	C	N-Nitrosodiphenylamine	42.680	39.479	7.5#	91	-0.03
61		1,2-Diphenylhydrazine	50.000	49.727	0.5	98	-0.03
62		4-Bromophenyl phenyl ether	50.000	45.564	8.9	89	-0.03
63		Hexachlorobenzene	50.000	42.076	15.8	81	-0.03
64	C	Pentachlorophenol	50.000	36.436	27.1#	69	-0.03
65		Pentachloronitrobenzene	50.000	44.272	11.5	84	-0.03
66		Phenanthrene	50.000	46.664	6.7	91	-0.03
67		Anthracene	50.000	46.888	6.2	91	-0.03
68		Carbazole	50.000	48.087	3.8	92	-0.03
69		Di-N-Butyl Phthalate	50.000	55.337	-10.7	107	-0.03
70	C	Flouranthene	50.000	48.106	3.8#	90	-0.04
71	I	CHRYSENE-D12	40.000	40.000	0.0	97	-0.05
72	S	Terphenyl-d14	50.000	51.124	-2.2	94	-0.04
73		Benzidine	50.000	15.031	69.9#	38	-0.03
74		Pyrene	50.000	48.562	2.9	88	-0.04
75		Butylbenzyl phthalate	50.000	55.306	-10.6	99	-0.04
76		3,3'-Dichlorobenzidine	50.000	44.256	11.5	79	-0.05
77		Benzo(a)anthracene	50.000	47.135	5.7	84	-0.04
78		Chrysene	50.000	46.114	7.8	82	-0.05
79		Bis(2-ethylhexyl)phthalate	50.000	61.716	-23.4#	109	-0.06
80	I	PERYLENE-D12	40.000	40.000	0.0	89	-0.05
81	C	Di-n-octylphthalate	50.000	61.550	-23.1#	102	-0.07
82		Benzo(b)fluoranthene	50.000	47.518	5.0	77	-0.05
83		Benzo(k)fluoranthene	50.000	48.289	3.4	78	-0.05
84	C	Benzo(a)pyrene	50.000	47.410	5.2#	77	-0.05
85		Indeno(1,2,3-cd)pyrene	50.000	51.324	-2.6	82	-0.03
86		Dibenz(a,h)anthracene	50.000	54.312	-8.6	85	-0.03
87		Benzo(g,h,i)perylene	50.000	50.786	-1.6	81	-0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 13

Evaluate Continuing Calibration Report

664

Data Path : C:\msdchem\1\DATA\D051624\
Data File : D24S137002.D
Acq On : 16 May 2024 12:30 pm
Operator : BGL
Sample : 8270 50ppm std 24C0900 Inst : GCMSSV4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 16 12:42:14 2024
Quant Method : C:\MSDCHEM\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Wed Apr 24 09:02:55 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 10% Max. R.T. Dev 1.00min
Max. RRF Dev : 20% Max. Rel. Area : 500%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-D4	1.000	1.000	0.0	96	-0.03
2	S	2-Fluorophenol	0.974	1.048	-7.6	93	-0.03
3	S	Phenol-d6	1.546	1.694	-9.6	95	-0.03
4		N-Nitrosodimethylamine	0.825	0.935	-13.3	101	-0.03
5		Pyridine	1.416	1.499	-5.9	92	-0.03
6		Aniline	0.732	0.648	11.5	80	-0.03
7	C	Phenol	1.735	1.906	-9.9#	94	-0.03
8		Bis(2-chloroethyl)ether	0.904	1.022	-13.1	100	-0.03
9		2-Chlorophenol	1.351	1.464	-8.4	95	-0.03
10		1,3-Dichlorobenzene	1.551	1.608	-3.7	92	-0.03
11	C	1,4-Dichlorobenzene	1.553	1.637	-5.4#	93	-0.03
12		1,2-Dichlorobenzene	1.445	1.499	-3.7	92	-0.03
13		2- METHYLPHENOL	1.175	1.239	-5.4	94	-0.03
14		Bis(2-Chloroisopropyl)ether	1.197	1.542	-28.8#	115	-0.03
15		Acetophenone	1.851	1.944	-5.0	93	-0.03
16		3/4- METHYLPHENOL	1.331	1.472	-10.6	95	-0.04
17	P	N-Nitroso-Di-N-Propylamine	0.986	1.137	-15.3	103	-0.03
18		Hexachloroethane	0.582	0.633	-8.8	97	-0.03
19	I	NAPHTHALENE-d8	1.000	1.000	0.0	96	-0.03
20	S	Nitrobenzene-d5	0.371	0.416	-12.1	100	-0.03
21		NITROBENZENE	0.408	0.442	-8.3	96	-0.03
22		Isophorone	0.682	0.718	-5.3	95	-0.03
23	C	2-Nitrophenol	0.186	0.210	-12.9#	97	-0.03
24		2,4-Dimethylphenol	0.337	0.324	3.9	85	-0.03
25		Bis(2-Chloroethoxy)methane	0.384	0.399	-3.9	93	-0.03
26		Benzoic Acid	0.211	0.235	-11.4	98	-0.02
27	C	2,4-Dichlorophenol	0.331	0.313	5.4#	84	-0.03
28		1,2,4-Trichlorobenzene	0.366	0.353	3.6	86	-0.03
29		Naphthalene	0.996	1.035	-3.9	91	-0.03
30		4-Chloroaniline	0.408	0.373	8.6	82	-0.03
31	C	Hexachlorobutadiene	0.210	0.211	-0.5#	89	-0.03
32	C	4-Chloro-3-Methylphenol	0.322	0.346	-7.5#	96	-0.03
33		2-MethylNaphthalene	0.683	0.708	-3.7	91	-0.03
34		1-Methylnaphthalene	0.628	0.647	-3.0	91	-0.05
35	I	ACENAPHTHENE-D10	1.000	1.000	0.0	100	-0.03
36	S	2-Fluorobiphenyl	1.227	1.187	3.3	88	-0.03
37	S	2,4,6-Tribromophenol	0.208	0.164	21.2#	76	-0.03
38	P	Hexachlorocyclopentadiene	0.393	0.256	34.9#	58	-0.03
39		1,2,4,5-Tetrachlorobenzene	0.653	0.598	8.4	84	-0.03
40	C	2,4,6-Trichlorophenol	0.425	0.390	8.2#	84	-0.03
41		2,4,5-Trichlorophenol	0.441	0.402	8.8	84	-0.03
42		2-ChloroNaphthalene	1.404	1.384	1.4	93	-0.03
43		2-Nitroaniline	0.338	0.401	-18.6	108	-0.03
44		1,1-Biphenyl	1.377	1.368	0.7	91	-0.03
45		DIMETHYL PHTHALATE	1.313	1.303	0.8	92	-0.03
46		2,6-DinitroToluene	0.273	0.299	-9.5	98	-0.03
47		Acenaphthylene	1.807	1.679	7.1	85	-0.03
48		3-Nitroaniline	0.286	0.310	-8.4	97	-0.03
49	C	Acenaphthene	1.114	1.019	8.5#	84	-0.03
50	P	2,4-Dinitrophenol	0.129	0.159	-23.3#	110	-0.02
51	P	4-Nitrophenol	0.207	0.239	-15.5	106	-0.04

Data Path : C:\msdchem\1\DATA\D051624\
Data File : D24S137002.D
Acq On : 16 May 2024 12:30 pm
Operator : BGL
Sample : 8270 50ppm std 24C0900 Inst : GCMSSV4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 16 12:42:14 2024
Quant Method : C:\MSDCHEM\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Wed Apr 24 09:02:55 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 10% Max. R.T. Dev 1.00min
Max. RRF Dev : 20% Max. Rel. Area : 500%

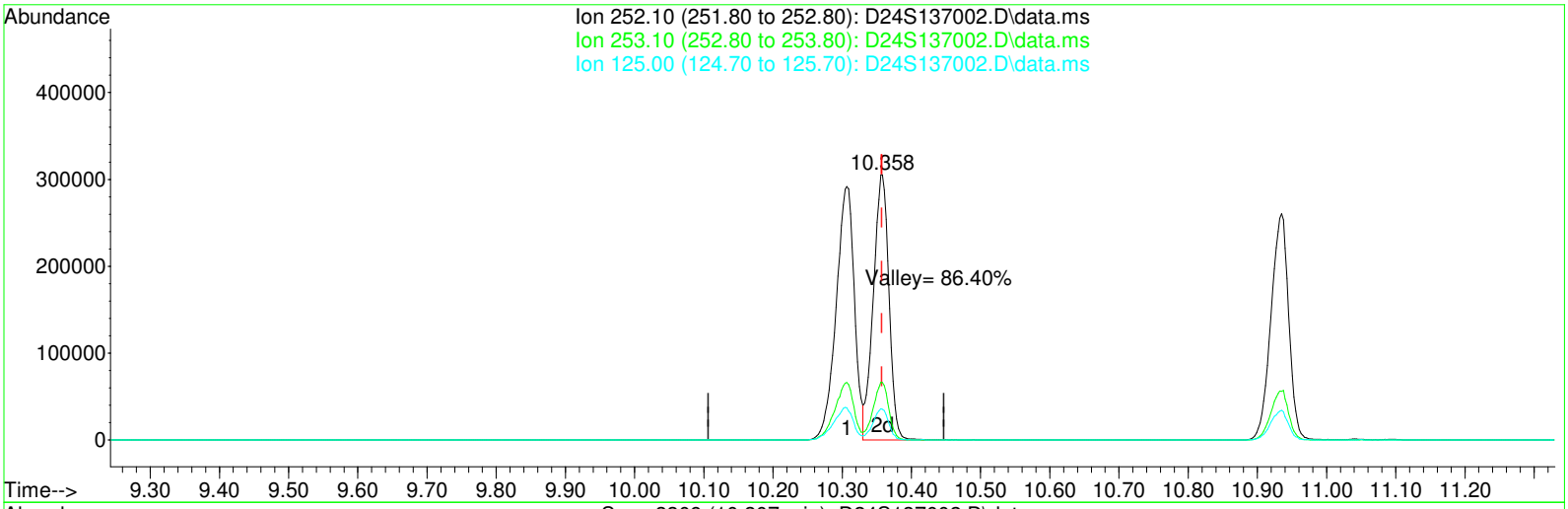
		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
52		Dibenzofuran	1.589	1.529	3.8	89	-0.03
53		2,4-Dinitrotoluene	0.382	0.424	-11.0	103	-0.03
54		DIETHYL PHTHALATE	1.286	1.330	-3.4	97	-0.03
55		4-Chlorophenyl phenyl ether	0.652	0.630	3.4	90	-0.03
56		Flourene	1.324	1.278	3.5	89	-0.03
57		4-Nitroaniline	0.313	0.330	-5.4	95	-0.03
58	I	PHENANTHRENE-D10	1.000	1.000	0.0	105	-0.03
59		4,6-Dinitro-2-Methylphenol	0.105	0.123	-17.1	114	-0.02
60	C	N-Nitrosodiphenylamine	0.566	0.524	7.4#	91	-0.03
61		1,2-Diphenylhydrazine	0.713	0.709	0.6	98	-0.03
62		4-Bromophenyl phenyl ether	0.209	0.191	8.6	89	-0.03
63		Hexachlorobenzene	0.240	0.202	15.8	81	-0.03
64	C	Pentachlorophenol	0.175	0.128	26.9#	69	-0.03
65		Pentachloronitrobenzene	0.042	0.037	11.9	84	-0.03
66		Phenanthrene	1.044	0.974	6.7	91	-0.03
67		Anthracene	1.052	0.987	6.2	91	-0.03
68		Carbazole	1.002	0.963	3.9	92	-0.03
69		Di-N-Butyl Phthalate	1.188	1.315	-10.7	107	-0.03
70	C	Flouranthene	1.231	1.185	3.7#	90	-0.04
71	I	CHRYSENE-D12	1.000	1.000	0.0	97	-0.05
72	S	Terphenyl-d14	0.807	0.825	-2.2	94	-0.04
73		Benzidine	0.401	0.120	70.1#	38	-0.03
74		Pyrene	1.410	1.369	2.9	88	-0.04
75		Butylbenzyl phthalate	0.613	0.678	-10.6	99	-0.04
76		3,3'-Dichlorobenzidine	0.491	0.435	11.4	79	-0.05
77		Benzo(a)anthracene	1.402	1.321	5.8	84	-0.04
78		Chrysene	1.306	1.205	7.7	82	-0.05
79		Bis(2-ethylhexyl)phthalate	0.768	0.947	-23.3#	109	-0.06
80	I	PERYLENE-D12	1.000	1.000	0.0	89	-0.05
81	C	Di-n-octylphthalate	1.346	1.656	-23.0#	102	-0.07
82		Benzo(b)fluoranthene	1.367	1.299	5.0	77	-0.05
83		Benzo(k)fluoranthene	1.196	1.155	3.4	78	-0.05
84	C	Benzo(a)pyrene	1.189	1.127	5.2#	77	-0.05
85		Indeno(1,2,3-cd)pyrene	0.974	1.000	-2.7	82	-0.03
86		Dibenz(a,h)anthracene	0.946	1.028	-8.7	85	-0.03
87		Benzo(g,h,i)perylene	0.919	0.933	-1.5	81	-0.03

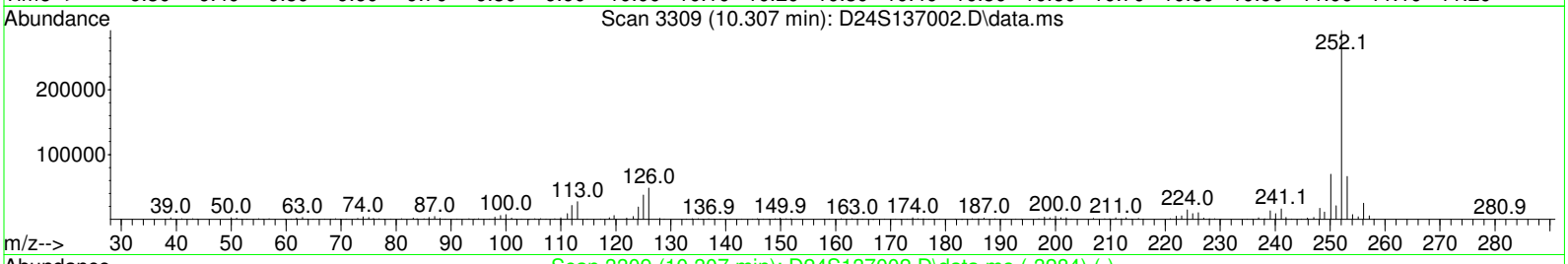
(#) = Out of Range SPCC's out = 0 CCC's out = 13

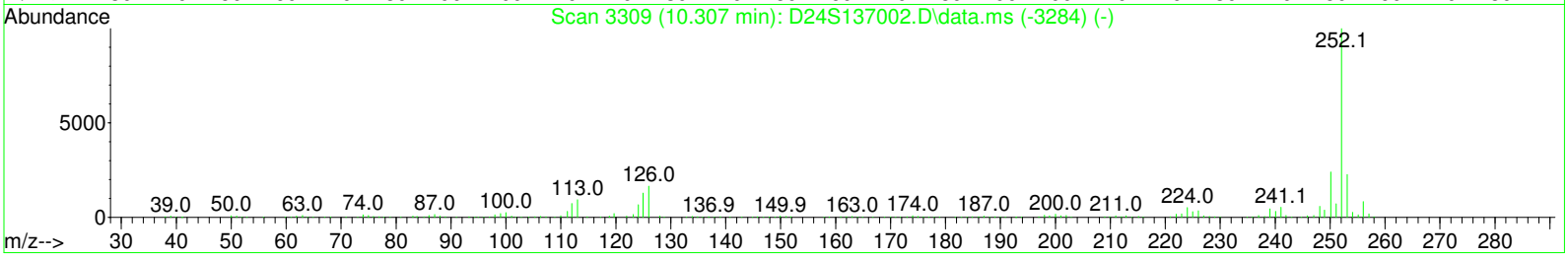
Data Path : C:\msdchem\1\DATA\D051624\
Data File : D24S137002.D
Acq On : 16 May 2024 12:30 pm
Operator : BGL
Sample : 8270 50ppm std 24C0900 Inst : GCMSSV4
Misc :
ALS Vial : 2 Sample Multiplier: 1

666

Quant Time: May 16 12:42:14 2024
Quant Method : C:\MSDCHEM\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Wed Apr 24 09:02:55 2024
Response via : Initial Calibration







TIC: D24S137002.D\data.ms

(82) Benzo(b)fluoranthene

10.307min (-0.050) 47.52 ug/ml

response 535982

Ion	Exp%	Act%
252.10	100	100
253.10	24.00	23.83
125.00	12.10	14.02
0.00	0.00	0.00

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8270E

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	GCMSSV4	Calibration:	2400207
Lab File ID:	D24S137003.D	Calibration Date:	02/15/24 10:46
Sequence:	S104909	Injection Date:	05/16/24
Lab Sample ID:	S104909-CCV2	Injection Time:	12:49

		CONC. (µg/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
2,3,4,6-Tetrachlorophenol	A	50.0	48.6	0.145784	0.2835515		94.5	20	*
Atrazine	A	50.0	55.6	0.3948915	0.438782		11.1	20	
Benzaldehyde	A	50.0	51.8	1.101015	1.141526		3.7	20	
Biphenyl	A	50.0	52.9	1.37721	7433.14		540000	20	*
Caprolactam	A	50.0	53.2	0.1046827	0.1114962		6.5	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D051624\
Data File : D24S137003.D
Acq On : 16 May 2024 12:49 pm
Operator : BGL
Sample : NCExtras 50 ppm 24C0439 Inst : GCMSSV4
Misc :
ALS Vial : 3 Sample Multiplier: 1

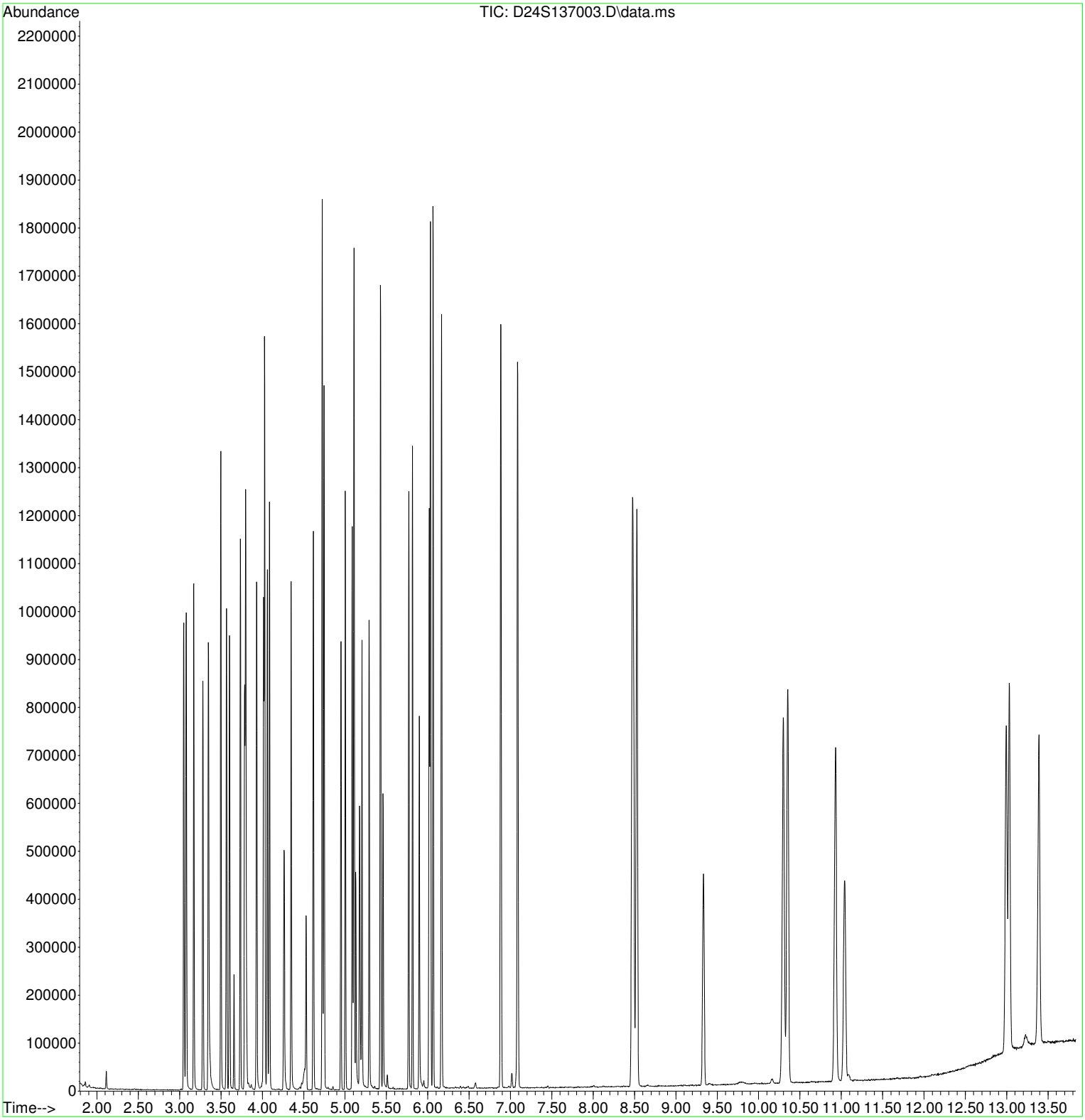
Quant Time: May 23 10:16:15 2024
Quant Method : C:\msdchem\1\METHODS\NCD02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270STD SVMS4 N.C. apx2 extra compds PulseWool
QLast Update : Wed May 08 09:56:00 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-D4...	3.280	152	85063	40.00	ug/ml	-0.02
6) NAPHTHALENE-d8 (2)	4.014	136	306988	40.00	ug/ml	-0.03
10) ACENAPHTHENE-D10 (2)	5.088	164	171657	40.00	ug/ml	0.00
16) PHENANTHRENE-D10 (2)	6.017	188	309974	40.00	ug/ml	0.00
17) CHRYSENE-D12 (2)	8.489	240	274150	40.00	ug/ml	-0.04
19) PERYLENE-D12 (2)	11.038	264	261880	40.00	ug/ml	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	0.000	112	0	0.00	ug/ml	
Spiked Amount 200.000	Range 30 - 130		Recovery =	0.00%#		
3) Phenol-d6	3.172	99	11088	0.00	ug/ml	-0.02
Spiked Amount 200.000	Range 30 - 130		Recovery =	0.00%#		
7) Nitrobenzene-d5	3.566	82	21049	0.00	ug/ml	-0.03
Spiked Amount 100.000	Range 30 - 130		Recovery =	0.00%#		
11) 2-Fluorobiphenyl	4.617	172	30	0.00	ug/ml	-0.02
Spiked Amount 100.000	Range 30 - 130		Recovery =	0.00%#		
12) 2,4,6-Tribromophenol	0.000	330	0	0.00	ug/ml	
Spiked Amount 200.000	Range 30 - 130		Recovery =	0.00%#		
18) Terphenyl-d14	7.207	244	127	0.00	ug/ml	-0.09
Spiked Amount 100.000	Range 30 - 130		Recovery =	0.00%#		
Target Compounds						Qvalue
4) Benzaldehyde	3.051	106	121377	51.84	ug/ml	97
5) Benzyl Alcohol	3.347	108	107513	55.11	ug/ml	98
8) 2,6-Dichlorophenol	4.060	162	133839	49.45	ug/ml	94
9) Caprolactam	4.261	113	42785	53.25	ug/ml#	86
13) Biphenyl	4.725	154	371657	52.94	ug/ml	98
14) 2,3,4,6-Tetrachlorophenol	5.291	230	60842	48.63	ug/ml	96
15) Atrazine	5.816	200	94150	55.56	ug/ml	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\D051624\
Data File : D24S137003.D
Acq On : 16 May 2024 12:49 pm
Operator : BGL
Sample : NCExtras 50 ppm 24C0439 Inst : GCMSSV4
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 23 10:16:15 2024
Quant Method : C:\msdchem\1\METHODS\NCD02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270STD SVMS4 N.C. apx2 extra compds PulseWool
QLast Update : Wed May 08 09:56:00 2024
Response via : Initial Calibration



Evaluate Continuing Calibration Report

670

Data Path : C:\msdchem\1\DATA\D051624\
Data File : D24S137003.D
Acq On : 16 May 2024 12:49 pm
Operator : BGL
Sample : NCExtras 50 ppm 24C0439 Inst : GCMSSV4
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 23 10:16:15 2024
Quant Method : C:\msdchem\1\METHODS\NCD02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270STD SVMS4 N.C. apx2 extra compds PulseWool
QLast Update : Wed May 08 09:56:00 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-D4 (2)	1.000	1.000	0.0	77	-0.02
2	S	2-Fluorophenol	0.000	0.000	0.0	0#	-2.73#
3	S	Phenol-d6	0.000	0.104	0.0	0#	-0.02
4		Benzaldehyde	1.101	1.142	-3.7	86	-0.02
5		Benzyl Alcohol	0.917	1.011	-10.3	91	-0.02
6	I	NAPHTHALENE-d8 (2)	1.000	1.000	0.0	78	-0.03
7	S	Nitrobenzene-d5	0.000	0.055	0.0	0#	-0.03
8		2,6-Dichlorophenol	0.353	0.349	1.1	83	-0.02
9		Caprolactam	0.105	0.111	-5.7	89	-0.02
10	I	ACENAPHTHENE-D10 (2)	1.000	1.000	0.0	75	0.00
11	S	2-Fluorobiphenyl	0.000	0.000	0.0	0#	-0.02
12	S	2,4,6-Tribromophenol	0.000	0.000	0.0	0#	-5.71#
13		Biphenyl	1.636	1.732	-5.9	87	-0.03
14		2,3,4,6-Tetrachlorophenol	0.292	0.284	2.7	77	-0.02
15		Atrazine	0.395	0.439	-11.1	91	-0.03
16	I	PHENANTHRENE-D10 (2)	1.000	1.000	0.0	75	0.00
17	I	CHRYSENE-D12 (2)	1.000	1.000	0.0	73	-0.04
18	S	Terphenyl-d14	0.000	0.000	0.0	0#	-0.09
19	I	PERYLENE-D12 (2)	1.000	1.000	0.0	67	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

8 - FORM VIII
INTERNAL STANDARD AREA AND RT SUMMARY

SW-846 8270E

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Sequence:	S104589	Instrument:	GCMSSV4
		Calibration:	2400207

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S104589-CCV2)			*Lab File ID: D24S136003.D*			*Analyzed: 05/15/24 07:33*			
1,4-Dichlorobenzene-d4 (2)	89623	3.271				50 - 200		+/-0.50	
Naphthalene-d8 (2)	336775	4.005				50 - 200		+/-0.50	
Acenaphthene-d10 (2)	191532	5.078				50 - 200		+/-0.50	
Calibration Check (S104589-CCV1)			*Lab File ID: D24S136004.D*			*Analyzed: 05/15/24 07:52*			
1,4-Dichlorobenzene-d4	99170	3.271				50 - 200		+/-0.50	
Naphthalene-d8	361638	4.007				50 - 200		+/-0.50	
Acenaphthene-d10	211086	5.078				50 - 200		+/-0.50	
Phenanthrene-d10	383173	6.005				50 - 200		+/-0.50	
Chrysene-d12	382293	8.469				50 - 200		+/-0.50	
Perylene-d12	376182	11.011				50 - 200		+/-0.50	
LCS (B374087-BS1)			*Lab File ID: D24S136009.D*			*Analyzed: 05/15/24 09:36*			
1,4-Dichlorobenzene-d4	86677	3.271	99170	3.271	87	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	328336	4.005	361638	4.007	91	50 - 200	-0.0020	+/-0.50	
Acenaphthene-d10	183093	5.078	211086	5.078	87	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	322958	6.005	383173	6.005	84	50 - 200	0.0000	+/-0.50	
Chrysene-d12	296344	8.467	382293	8.469	78	50 - 200	-0.0020	+/-0.50	
Perylene-d12	309004	11.006	376182	11.011	82	50 - 200	-0.0050	+/-0.50	
1,4-Dichlorobenzene-d4 (2)	86677	3.271	89623	3.271	97	50 - 200	0.0000	+/-0.50	
Naphthalene-d8 (2)	328336	4.005	336775	4.005	97	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (2)	183093	5.078	191532	5.078	96	50 - 200	0.0000	+/-0.50	
LCS Dup (B374087-BSD1)			*Lab File ID: D24S136010.D*			*Analyzed: 05/15/24 09:56*			
1,4-Dichlorobenzene-d4	90207	3.271	99170	3.271	91	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	339069	4.005	361638	4.007	94	50 - 200	-0.0020	+/-0.50	
Acenaphthene-d10	188039	5.079	211086	5.078	89	50 - 200	0.0010	+/-0.50	
Phenanthrene-d10	328954	6.006	383173	6.005	86	50 - 200	0.0010	+/-0.50	
Chrysene-d12	305578	8.464	382293	8.469	80	50 - 200	-0.0050	+/-0.50	
Perylene-d12	322002	11.008	376182	11.011	86	50 - 200	-0.0030	+/-0.50	
1,4-Dichlorobenzene-d4 (2)	90207	3.271	89623	3.271	101	50 - 200	0.0000	+/-0.50	
Naphthalene-d8 (2)	339069	4.005	336775	4.005	101	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (2)	188039	5.079	191532	5.078	98	50 - 200	0.0010	+/-0.50	

8 - FORM VIII
INTERNAL STANDARD AREA AND RT SUMMARY

SW-846 8270E

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Sequence:	S104589	Instrument:	GCMSSV4
		Calibration:	2400207

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Blank (B374087-BLK1)			*Lab File ID: D24S136011.D*			*Analyzed: 05/15/24 10:17*			
1,4-Dichlorobenzene-d4	97221	3.271	99170	3.271	98	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	389758	4.005	361638	4.007	108	50 - 200	-0.0020	+/-0.50	
Acenaphthene-d10	234472	5.076	211086	5.078	111	50 - 200	-0.0020	+/-0.50	
Phenanthrene-d10	428448	6.005	383173	6.005	112	50 - 200	0.0000	+/-0.50	
Chrysene-d12	313050	8.462	382293	8.469	82	50 - 200	-0.0070	+/-0.50	
Perylene-d12	315504	11.005	376182	11.011	84	50 - 200	-0.0060	+/-0.50	
1,4-Dichlorobenzene-d4 (2)	97221	3.271	89623	3.271	108	50 - 200	0.0000	+/-0.50	
Naphthalene-d8 (2)	389758	4.005	336775	4.005	116	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (2)	234472	5.076	191532	5.078	122	50 - 200	-0.0020	+/-0.50	

8 - FORM VIII
INTERNAL STANDARD AREA AND RT SUMMARY

SW-846 8270E

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Sequence:	S104909	Instrument:	GCMSSV4
		Calibration:	2400207

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S104909-CCV1)			*Lab File ID: D24S137002.D*			*Analyzed: 05/16/24 12:30*			
1,4-Dichlorobenzene-d4	90298	3.283				50 - 200		+/-0.50	
Naphthalene-d8	327343	4.017				50 - 200		+/-0.50	
Acenaphthene-d10	198642	5.088				50 - 200		+/-0.50	
Phenanthrene-d10	380130	6.017				50 - 200		+/-0.50	
Chrysene-d12	345011	8.491				50 - 200		+/-0.50	
Perylene-d12	330135	11.046				50 - 200		+/-0.50	
Calibration Check (S104909-CCV2)			*Lab File ID: D24S137003.D*			*Analyzed: 05/16/24 12:49*			
1,4-Dichlorobenzene-d4 (2)	85063	3.28				50 - 200		+/-0.50	
Naphthalene-d8 (2)	306988	4.014				50 - 200		+/-0.50	
Acenaphthene-d10 (2)	171657	5.088				50 - 200		+/-0.50	
CG-2 (24E1437-02)			*Lab File ID: D24S137015.D*			*Analyzed: 05/16/24 16:54*			
1,4-Dichlorobenzene-d4	82822	3.28	90298	3.283	92	50 - 200	-0.0030	+/-0.50	
Naphthalene-d8	312047	4.014	327343	4.017	95	50 - 200	-0.0030	+/-0.50	
Acenaphthene-d10	173838	5.085	198642	5.088	88	50 - 200	-0.0030	+/-0.50	
Phenanthrene-d10	309691	6.015	380130	6.017	81	50 - 200	-0.0020	+/-0.50	
Chrysene-d12	233070	8.481	345011	8.491	68	50 - 200	-0.0100	+/-0.50	
Perylene-d12	172909	11.033	330135	11.046	52	50 - 200	-0.0130	+/-0.50	
1,4-Dichlorobenzene-d4 (2)	82822	3.28	85063	3.28	97	50 - 200	0.0000	+/-0.50	
Naphthalene-d8 (2)	312047	4.014	306988	4.014	102	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (2)	173838	5.085	171657	5.088	101	50 - 200	-0.0030	+/-0.50	
B1A (24E1437-04)			*Lab File ID: D24S137016.D*			*Analyzed: 05/16/24 17:14*			
1,4-Dichlorobenzene-d4	85896	3.28	90298	3.283	95	50 - 200	-0.0030	+/-0.50	
Naphthalene-d8	330804	4.014	327343	4.017	101	50 - 200	-0.0030	+/-0.50	
Acenaphthene-d10	186456	5.088	198642	5.088	94	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	329701	6.014	380130	6.017	87	50 - 200	-0.0030	+/-0.50	
Chrysene-d12	185421	8.481	345011	8.491	54	50 - 200	-0.0100	+/-0.50	
Perylene-d12	195240	11.04	330135	11.046	59	50 - 200	-0.0060	+/-0.50	
1,4-Dichlorobenzene-d4 (2)	85896	3.28	85063	3.28	101	50 - 200	0.0000	+/-0.50	
Naphthalene-d8 (2)	330804	4.014	306988	4.014	108	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (2)	186456	5.088	171657	5.088	109	50 - 200	0.0000	+/-0.50	

8 - FORM VIII
INTERNAL STANDARD AREA AND RT SUMMARY

SW-846 8270E

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Sequence:	S104909	Instrument:	GCMSSV4
		Calibration:	2400207

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
SB1A (24E1437-06)			*Lab File ID: D24S137017.D*			*Analyzed: 05/16/24 17:34*			
1,4-Dichlorobenzene-d4	102427	3.28	90298	3.283	113	50 - 200	-0.0030	+/-0.50	
Naphthalene-d8	387535	4.014	327343	4.017	118	50 - 200	-0.0030	+/-0.50	
Acenaphthene-d10	222048	5.088	198642	5.088	112	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	378353	6.015	380130	6.017	100	50 - 200	-0.0020	+/-0.50	
Chrysene-d12	228897	8.484	345011	8.491	66	50 - 200	-0.0070	+/-0.50	
Perylene-d12	224351	11.041	330135	11.046	68	50 - 200	-0.0050	+/-0.50	
1,4-Dichlorobenzene-d4 (2)	102427	3.28	85063	3.28	120	50 - 200	0.0000	+/-0.50	
Naphthalene-d8 (2)	387535	4.014	306988	4.014	126	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (2)	222048	5.088	171657	5.088	129	50 - 200	0.0000	+/-0.50	
SB4A (24E1437-12)			*Lab File ID: D24S137018.D*			*Analyzed: 05/16/24 17:54*			
1,4-Dichlorobenzene-d4	80425	3.28	90298	3.283	89	50 - 200	-0.0030	+/-0.50	
Naphthalene-d8	312213	4.014	327343	4.017	95	50 - 200	-0.0030	+/-0.50	
Acenaphthene-d10	177672	5.088	198642	5.088	89	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	319644	6.017	380130	6.017	84	50 - 200	0.0000	+/-0.50	
Chrysene-d12	189172	8.487	345011	8.491	55	50 - 200	-0.0040	+/-0.50	
Perylene-d12	175799	11.041	330135	11.046	53	50 - 200	-0.0050	+/-0.50	
1,4-Dichlorobenzene-d4 (2)	80425	3.28	85063	3.28	95	50 - 200	0.0000	+/-0.50	
Naphthalene-d8 (2)	312213	4.014	306988	4.014	102	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (2)	177672	5.088	171657	5.088	104	50 - 200	0.0000	+/-0.50	
SB7 (24E1437-17)			*Lab File ID: D24S137019.D*			*Analyzed: 05/16/24 18:14*			
1,4-Dichlorobenzene-d4	85762	3.28	90298	3.283	95	50 - 200	-0.0030	+/-0.50	
Naphthalene-d8	327917	4.014	327343	4.017	100	50 - 200	-0.0030	+/-0.50	
Acenaphthene-d10	187402	5.088	198642	5.088	94	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	332191	6.015	380130	6.017	87	50 - 200	-0.0020	+/-0.50	
Chrysene-d12	190307	8.486	345011	8.491	55	50 - 200	-0.0050	+/-0.50	
Perylene-d12	180609	11.043	330135	11.046	55	50 - 200	-0.0030	+/-0.50	
1,4-Dichlorobenzene-d4 (2)	85762	3.28	85063	3.28	101	50 - 200	0.0000	+/-0.50	
Naphthalene-d8 (2)	327917	4.014	306988	4.014	107	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (2)	187402	5.088	171657	5.088	109	50 - 200	0.0000	+/-0.50	

8 - FORM VIII
INTERNAL STANDARD AREA AND RT SUMMARY

SW-846 8270E

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Sequence:	S104909	Instrument:	GCMSSV4
		Calibration:	2400207

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
DUP (24E1437-19)			*Lab File ID: D24S137020.D*			*Analyzed: 05/16/24 18:34*			
1,4-Dichlorobenzene-d4	84790	3.28	90298	3.283	94	50 - 200	-0.0030	+/-0.50	
Naphthalene-d8	322337	4.014	327343	4.017	98	50 - 200	-0.0030	+/-0.50	
Acenaphthene-d10	186047	5.088	198642	5.088	94	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	323589	6.017	380130	6.017	85	50 - 200	0.0000	+/-0.50	
Chrysene-d12	185939	8.486	345011	8.491	54	50 - 200	-0.0050	+/-0.50	
Perylene-d12	171660	11.043	330135	11.046	52	50 - 200	-0.0030	+/-0.50	
1,4-Dichlorobenzene-d4 (2)	84790	3.28	85063	3.28	100	50 - 200	0.0000	+/-0.50	
Naphthalene-d8 (2)	322337	4.014	306988	4.014	105	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (2)	186047	5.088	171657	5.088	108	50 - 200	0.0000	+/-0.50	
Matrix Spike (B374087-MS1)			*Lab File ID: D24S137021.D*			*Analyzed: 05/16/24 18:54*			
1,4-Dichlorobenzene-d4	82794	3.283	90298	3.283	92	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	308500	4.014	327343	4.017	94	50 - 200	-0.0030	+/-0.50	
Acenaphthene-d10	175245	5.088	198642	5.088	88	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	308068	6.017	380130	6.017	81	50 - 200	0.0000	+/-0.50	
Chrysene-d12	190457	8.489	345011	8.491	55	50 - 200	-0.0020	+/-0.50	
Perylene-d12	176194	11.043	330135	11.046	53	50 - 200	-0.0030	+/-0.50	
1,4-Dichlorobenzene-d4 (2)	82794	3.283	85063	3.28	97	50 - 200	0.0030	+/-0.50	
Naphthalene-d8 (2)	308500	4.014	306988	4.014	100	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (2)	175245	5.088	171657	5.088	102	50 - 200	0.0000	+/-0.50	
Matrix Spike Dup (B374087-MSD1)			*Lab File ID: D24S137022.D*			*Analyzed: 05/16/24 19:14*			
1,4-Dichlorobenzene-d4	101526	3.283	90298	3.283	112	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	375096	4.014	327343	4.017	115	50 - 200	-0.0030	+/-0.50	
Acenaphthene-d10	214406	5.088	198642	5.088	108	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	378250	6.017	380130	6.017	100	50 - 200	0.0000	+/-0.50	
Chrysene-d12	233956	8.486	345011	8.491	68	50 - 200	-0.0050	+/-0.50	
Perylene-d12	222511	11.043	330135	11.046	67	50 - 200	-0.0030	+/-0.50	
1,4-Dichlorobenzene-d4 (2)	101526	3.283	85063	3.28	119	50 - 200	0.0030	+/-0.50	
Naphthalene-d8 (2)	375096	4.014	306988	4.014	122	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10 (2)	214406	5.088	171657	5.088	125	50 - 200	0.0000	+/-0.50	

QC DATA

1 - FORM I
ANALYSIS DATA SHEET

Blank

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374087-BLK1	File ID:	D24S136011.D
Sampled:		Prepared:	05/12/24 07:21	Analyzed:	05/15/24 10:17
Solids:		Preparation:	SW-846 3546	Dilution:	
Initial/Final:	30.81 g / 1 mL				
Batch:	B374087	Sequence:	S104589	Calibration:	2400207	Instrument:	GCMSSV4
Column:	1				

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
58-90-2	2,3,4,6-Tetrachlorophenol		0.045	0.65	
1912-24-9	Atrazine		0.042	0.65	
100-52-7	Benzaldehyde		0.053	0.33	
92-52-4	Biphenyl		0.042	0.65	
105-60-2	Caprolactam		0.057	0.33	
83-32-9	Acenaphthene		0.032	0.17	
208-96-8	Acenaphthylene		0.030	0.17	
98-86-2	Acetophenone		0.034	0.33	
62-53-3	Aniline		0.057	0.33	
120-12-7	Anthracene		0.029	0.17	
56-55-3	Benzo(a)anthracene		0.027	0.17	
50-32-8	Benzo(a)pyrene		0.030	0.17	
205-99-2	Benzo(b)fluoranthene		0.027	0.17	
191-24-2	Benzo(g,h,i)perylene		0.047	0.17	
207-08-9	Benzo(k)fluoranthene		0.030	0.17	
111-91-1	Bis(2-chloroethoxy)methane		0.035	0.33	
111-44-4	Bis(2-chloroethyl)ether		0.047	0.33	
108-60-1	Bis(2-chloroisopropyl)ether		0.21	0.33	
117-81-7	Bis(2-Ethylhexyl)phthalate		0.039	0.33	L-05, V-06
101-55-3	4-Bromophenylphenylether		0.030	0.33	
85-68-7	Butylbenzylphthalate		0.037	0.33	V-06
86-74-8	Carbazole		0.033	0.17	
106-47-8	4-Chloroaniline		0.059	0.64	
59-50-7	4-Chloro-3-methylphenol		0.034	0.64	
91-58-7	2-Chloronaphthalene		0.029	0.33	
95-57-8	2-Chlorophenol		0.033	0.33	
7005-72-3	4-Chlorophenylphenylether		0.027	0.33	
218-01-9	Chrysene		0.029	0.17	
53-70-3	Dibenz(a,h)anthracene		0.046	0.17	V-06

1 - FORM I
ANALYSIS DATA SHEET

Blank

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374087-BLK1	File ID:	D24S136011.D
Sampled:		Prepared:	05/12/24 07:21	Analyzed:	05/15/24 10:17
Solids:		Preparation:	SW-846 3546	Dilution:	
Initial/Final:	30.81 g / 1 mL				
Batch:	B374087	Sequence:	S104589	Calibration:	2400207	Instrument:	GCMSSV4
Column:	1				

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
132-64-9	Dibenzofuran		0.030	0.33	
84-74-2	Di-n-butylphthalate		0.13	0.33	V-06
91-94-1	3,3-Dichlorobenzidine		0.071	0.17	
120-83-2	2,4-Dichlorophenol		0.031	0.33	
84-66-2	Diethylphthalate		0.032	0.33	
105-67-9	2,4-Dimethylphenol		0.076	0.33	
131-11-3	Dimethylphthalate		0.031	0.33	
534-52-1	4,6-Dinitro-2-methylphenol		0.26	0.33	
51-28-5	2,4-Dinitrophenol		0.25	0.64	
121-14-2	2,4-Dinitrotoluene		0.033	0.33	
606-20-2	2,6-Dinitrotoluene		0.035	0.33	
117-84-0	Di-n-octylphthalate		0.047	0.33	L-02, V-06
206-44-0	Fluoranthene		0.027	0.17	
86-73-7	Fluorene		0.030	0.17	
118-74-1	Hexachlorobenzene		0.032	0.33	
87-68-3	Hexachlorobutadiene		0.030	0.33	
77-47-4	Hexachlorocyclopentadiene		0.22	0.33	L-04, V-05
67-72-1	Hexachloroethane		0.030	0.33	
193-39-5	Indeno(1,2,3-cd)pyrene		0.054	0.17	
78-59-1	Isophorone		0.035	0.33	
90-12-0	1-Methylnaphthalene		0.033	0.17	
91-57-6	2-Methylnaphthalene		0.028	0.17	
95-48-7	2-Methylphenol		0.044	0.33	
108-39-4/106-44-5	3/4-Methylphenol		0.044	0.33	
91-20-3	Naphthalene		0.058	0.17	
88-74-4	2-Nitroaniline		0.040	0.33	
99-09-2	3-Nitroaniline		0.069	0.33	
100-01-6	4-Nitroaniline		0.037	0.33	
98-95-3	Nitrobenzene		0.042	0.33	

1 - FORM I
ANALYSIS DATA SHEET

Blank

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374087-BLK1	File ID:	D24S136011.D
Sampled:		Prepared:	05/12/24 07:21	Analyzed:	05/15/24 10:17
Solids:		Preparation:	SW-846 3546	Dilution:	
Initial/Final:	30.81 g / 1 mL				
Batch:	B374087	Sequence:	S104589	Calibration:	2400207	Instrument:	GCMSSV4
Column:	1				

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
88-75-5	2-Nitrophenol		0.032	0.33	
100-02-7	4-Nitrophenol		0.088	0.64	
86-30-6	N-Nitrosodiphenylamine/Diphenylamine		0.042	0.33	
621-64-7	N-Nitrosodi-n-propylamine		0.046	0.33	
87-86-5	Pentachlorophenol		0.12	0.33	V-05
85-01-8	Phenanthrene		0.029	0.17	
108-95-2	Phenol		0.042	0.33	
129-00-0	Pyrene		0.034	0.17	
110-86-1	Pyridine		0.039	0.33	
95-94-3	1,2,4,5-Tetrachlorobenzene		0.033	0.33	
95-95-4	2,4,5-Trichlorophenol		0.034	0.33	
88-06-2	2,4,6-Trichlorophenol		0.031	0.33	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D051524\
Data File : D24S136011.D
Acq On : 15 May 2024 10:17 am
Operator : BGL
Sample : B374087-BLK1 Inst : GCMSSV4
Misc :
ALS Vial : 11 Sample Multiplier: 1

680

Quant Time: May 17 07:20:38 2024
Quant Method : C:\MSDCHEM\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Wed Apr 24 09:02:55 2024
Response via : Initial Calibration

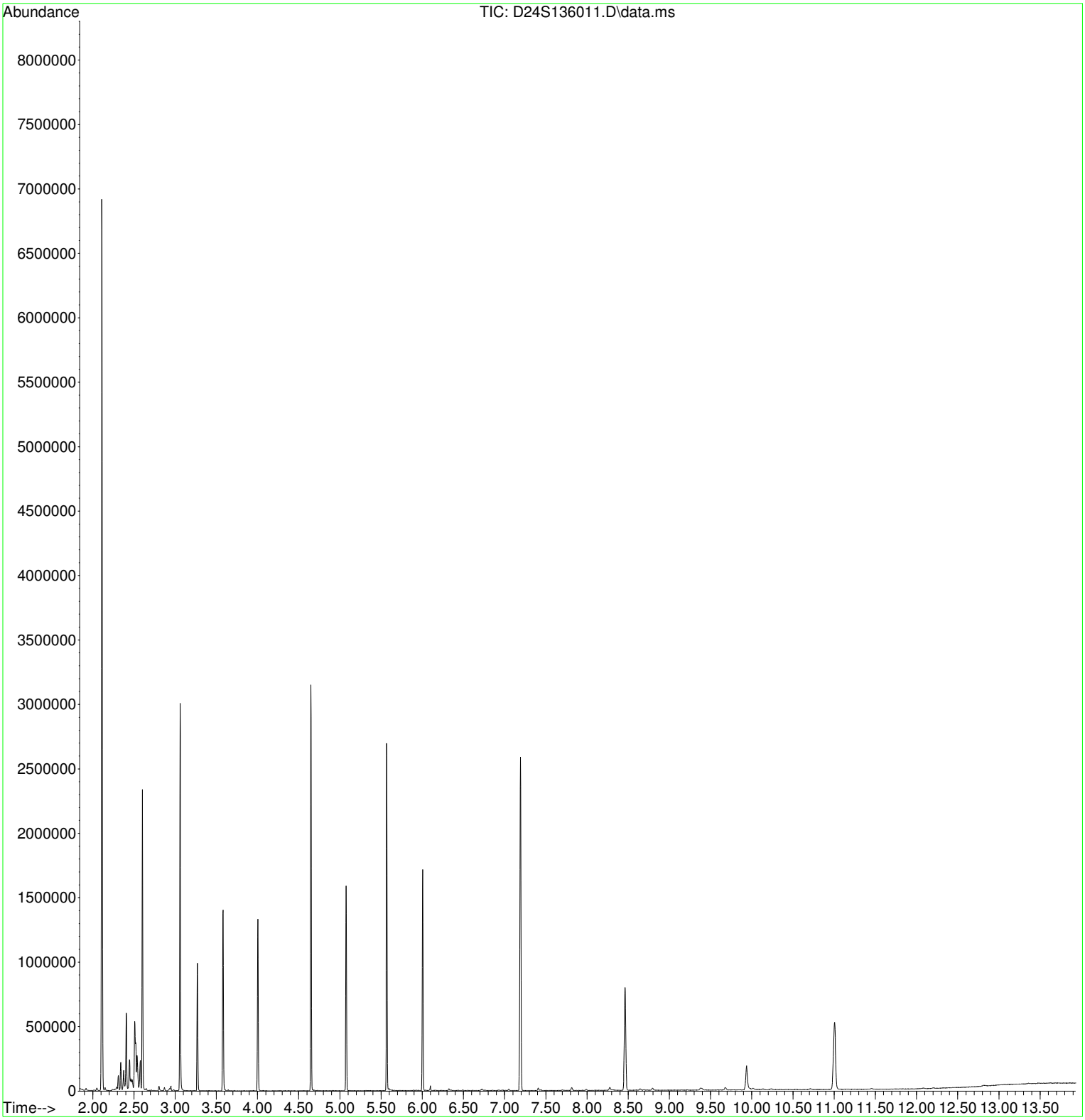
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-D4	3.271	152	97221	40.00	ug/ml	-0.04
19) NAPHTHALENE-d8	4.005	136	389758	40.00	ug/ml	-0.04
35) ACENAPHTHENE-D10	5.076	164	234472	40.00	ug/ml	-0.04
58) PHENANTHRENE-D10	6.005	188	428448	40.00	ug/ml	-0.04
71) CHRYSENE-D12	8.462	240	313050	40.00	ug/ml	-0.08
80) PERYLENE-D12	11.005	264	315504	40.00	ug/ml	-0.09
System Monitoring Compounds						
2) 2-Fluorophenol	2.604	112	408027	172.27	ug/ml	-0.04
Spiked Amount 200.000	Range 30 - 130		Recovery = 86.14%			
3) Phenol-d6	3.060	99	646631	172.13	ug/ml	-0.05
Spiked Amount 200.000	Range 30 - 130		Recovery = 86.06%			
20) Nitrobenzene-d5	3.582	82	320471	88.76	ug/ml	-0.04
Spiked Amount 100.000	Range 30 - 130		Recovery = 88.76%			
36) 2-Fluorobiphenyl	4.648	172	606402	84.30	ug/ml	-0.04
Spiked Amount 100.000	Range 30 - 130		Recovery = 84.30%			
37) 2,4,6-Tribromophenol	5.570	330	170118	139.19	ug/ml	-0.04
Spiked Amount 200.000	Range 30 - 130		Recovery = 69.59%			
72) Terphenyl-d14	7.192	244	685051	108.45	ug/ml	-0.06
Spiked Amount 100.000	Range 30 - 130		Recovery = 108.45%			

Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\D051524\
Data File : D24S136011.D
Acq On : 15 May 2024 10:17 am
Operator : BGL
Sample : B374087-BLK1 Inst : GCMSSV4
Misc :
ALS Vial : 11 Sample Multiplier: 1

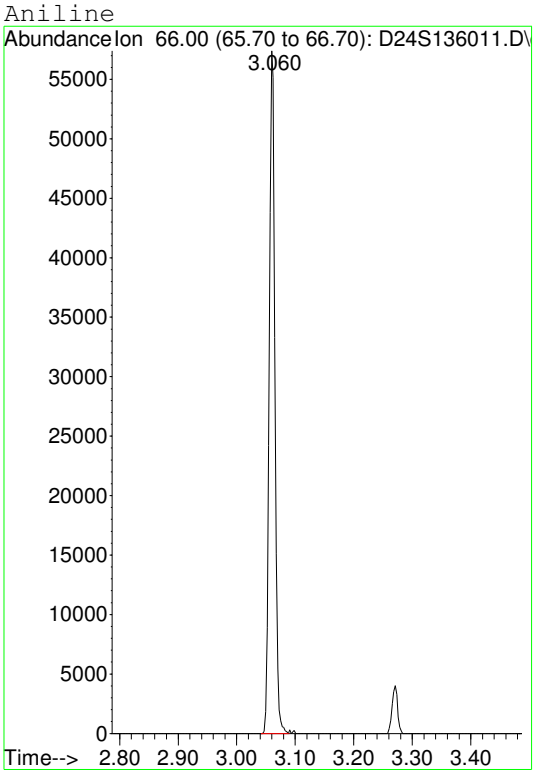
Quant Time: May 17 07:20:38 2024
Quant Method : C:\MSDCHEM\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Wed Apr 24 09:02:55 2024
Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\D051524\
Data File : D24S136011.D
Acq On : 15 May 2024 10:17 am
Operator : BGL
Sample : B374087-BLK1
Misc :

Quant Time : Fri May 17 07:20:38 2024
Quant Method : C:\MSDCHEM\1\METHODS\BND02154.M
QLast Update : Wed Apr 24 09:02:55 2024

Original Integration
Aniline



Original Int. Results

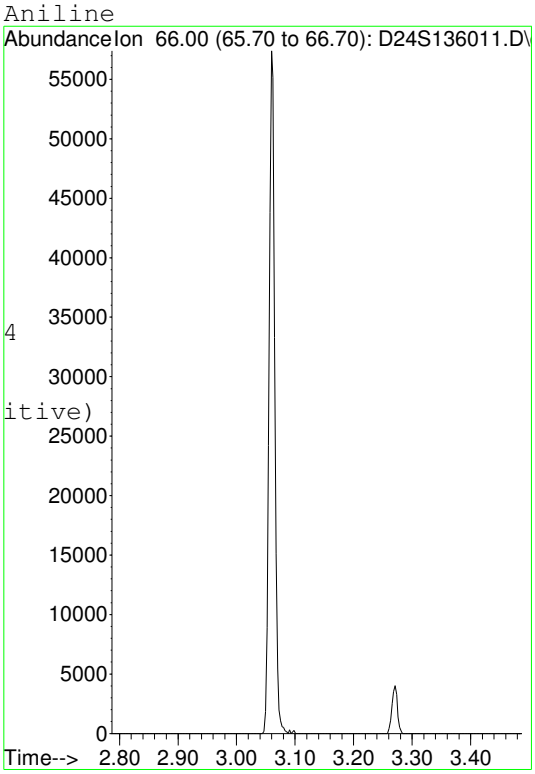
RT : 3.06
Area : 38602
Amount: 21.7075

Manual Int. Results

Fri May 17 07:20:38 2024

MIuser: BGL
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
Aniline



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D051524\
Data File : D24S136011.D
Acq On : 15 May 2024 10:17 am
Operator : BGL
Sample : B374087-BLK1 Inst : GCMSSV4
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 16 10:23:31 2024
Quant Method : C:\msdchem\1\METHODS\NCD02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270STD SVMS4 N.C. apx2 extra compds PulseWool
QLast Update : Wed May 08 09:56:00 2024
Response via : Initial Calibration

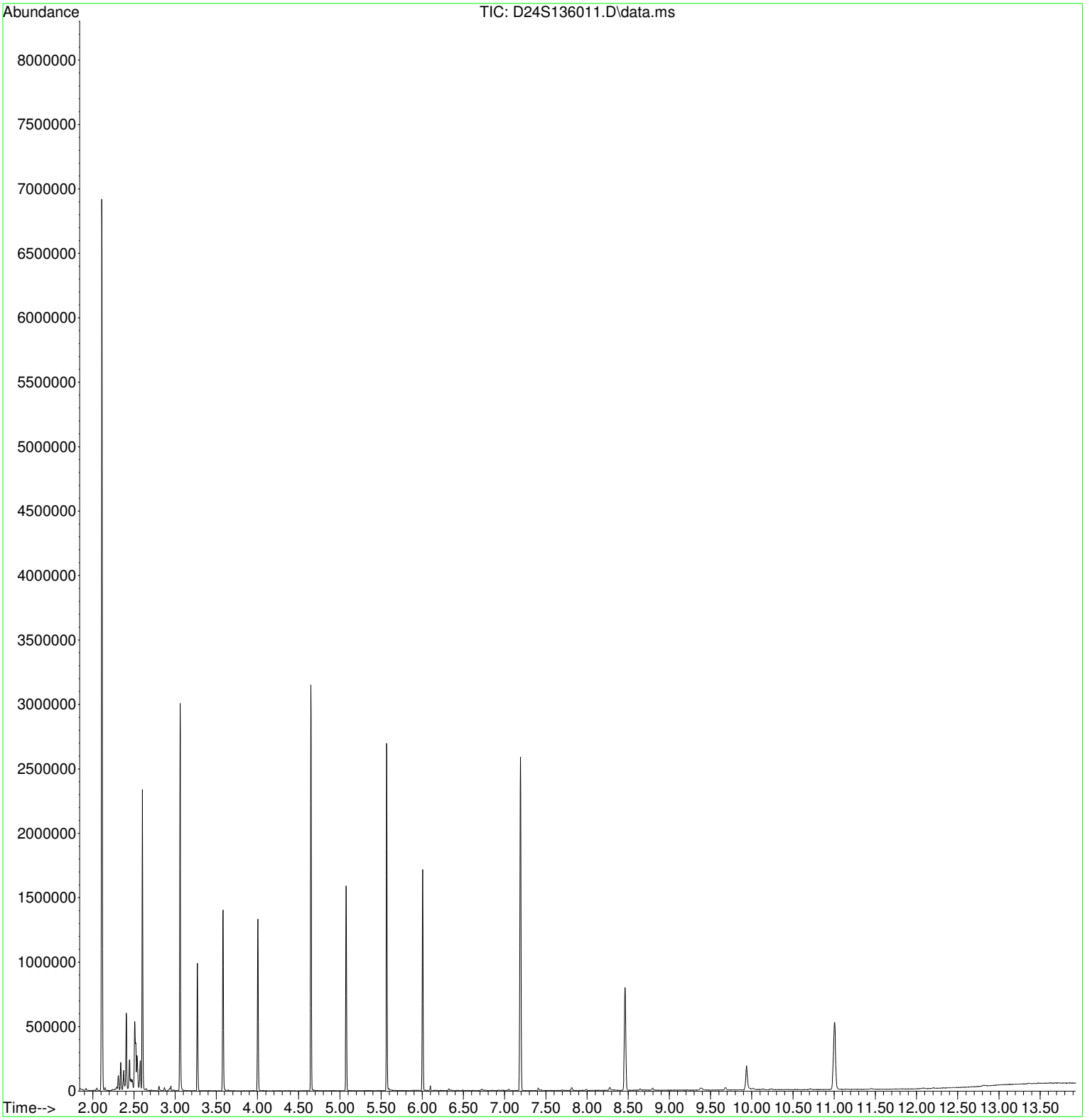
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-D4...	3.271	152	97221	40.00	ug/ml	-0.03
6) NAPHTHALENE-d8 (2)	4.005	136	389758	40.00	ug/ml	-0.04
10) ACENAPHTHENE-D10 (2)	5.076	164	234472	40.00	ug/ml	-0.01
16) PHENANTHRENE-D10 (2)	6.005	188	428448	40.00	ug/ml	-0.01
17) CHRYSENE-D12 (2)	8.462	240	313050	40.00	ug/ml	-0.07
19) PERYLENE-D12 (2)	11.005	264	315504	40.00	ug/ml	-0.04
System Monitoring Compounds						
2) 2-Fluorophenol	0.000	112	0	0.00	ug/ml	
Spiked Amount 200.000	Range 30 - 130		Recovery =	0.00%#		
3) Phenol-d6	3.060	99	646631	0.00	ug/ml	-0.13
Spiked Amount 200.000	Range 30 - 130		Recovery =	0.00%#		
7) Nitrobenzene-d5	3.582	82	320471	0.00	ug/ml	-0.01
Spiked Amount 100.000	Range 30 - 130		Recovery =	0.00%#		
11) 2-Fluorobiphenyl	4.648	172	606402	0.00	ug/ml	0.02
Spiked Amount 100.000	Range 30 - 130		Recovery =	0.00%#		
12) 2,4,6-Tribromophenol	0.000	330	0	0.00	ug/ml	
Spiked Amount 200.000	Range 30 - 130		Recovery =	0.00%#		
18) Terphenyl-d14	7.192	244	685051	0.00	ug/ml	-0.11
Spiked Amount 100.000	Range 30 - 130		Recovery =	0.00%#		
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\D051524\
Data File : D24S136011.D
Acq On : 15 May 2024 10:17 am
Operator : BGL
Sample : B374087-BLK1 Inst : GCMSSV4
Misc :
ALS Vial : 11 Sample Multiplier: 1

684

Quant Time: May 16 10:23:31 2024
Quant Method : C:\msdchem\1\METHODS\NCD02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270STD SVMS4 N.C. apx2 extra compds PulseWool
QLast Update : Wed May 08 09:56:00 2024
Response via : Initial Calibration



LSC Area Percent Report

685

Data Path : C:\msdchem\1\DATA\D051524\
Data File : D24S136011.D
Acq On : 15 May 2024 10:17 am
Operator : BGL
Sample : B374087-BLK1@/TIC
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 2 % of largest Peak
Start Thrs: 0.001 Max Peaks: 50
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\BND02154.M
Title : 8270/625 SVMS4 (d)C+D (split /WOOL

Signal : TIC: D24S136011.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.110	97	106	117	rBV	6916501	5195993	100.00%	22.382%
2	2.341	189	196	202	rBV	213404	150608	2.90%	0.649%
3	2.406	215	221	228	rVB	587478	433097	8.34%	1.866%
4	2.444	228	236	241	rBV	226409	189752	3.65%	0.817%
5	2.509	255	261	269	rBV2	514547	590434	11.36%	2.543%
6	2.537	269	272	279	rVV3	254683	219219	4.22%	0.944%
7	2.578	279	288	292	rVV	219728	180673	3.48%	0.778%
8	2.601	292	297	309	rVB	2329168	1586049	30.52%	6.832%
9	3.060	465	475	499	rBV	3006272	1998916	38.47%	8.610%
10	3.271	548	557	571	rBV	990902	645262	12.42%	2.779%
11	3.582	670	678	697	rBV	1403498	952738	18.34%	4.104%
12	4.005	834	842	860	rBV	1332583	858283	16.52%	3.697%
13	4.648	1082	1092	1104	rBV	3150418	1912213	36.80%	8.237%
14	5.076	1238	1258	1270	rBV	1591376	1048535	20.18%	4.517%
15	5.568	1438	1449	1457	rBV	2695569	1730718	33.31%	7.455%
16	6.005	1610	1619	1629	rBV	1716008	1106315	21.29%	4.765%
17	7.192	2069	2080	2092	rBV2	2588164	2192060	42.19%	9.442%
18	8.462	2558	2573	2589	rBV2	798203	967504	18.62%	4.168%
19	9.937	3128	3146	3169	rBV	189620	310154	5.97%	1.336%
20	11.005	3540	3561	3583	rBV	521929	946776	18.22%	4.078%

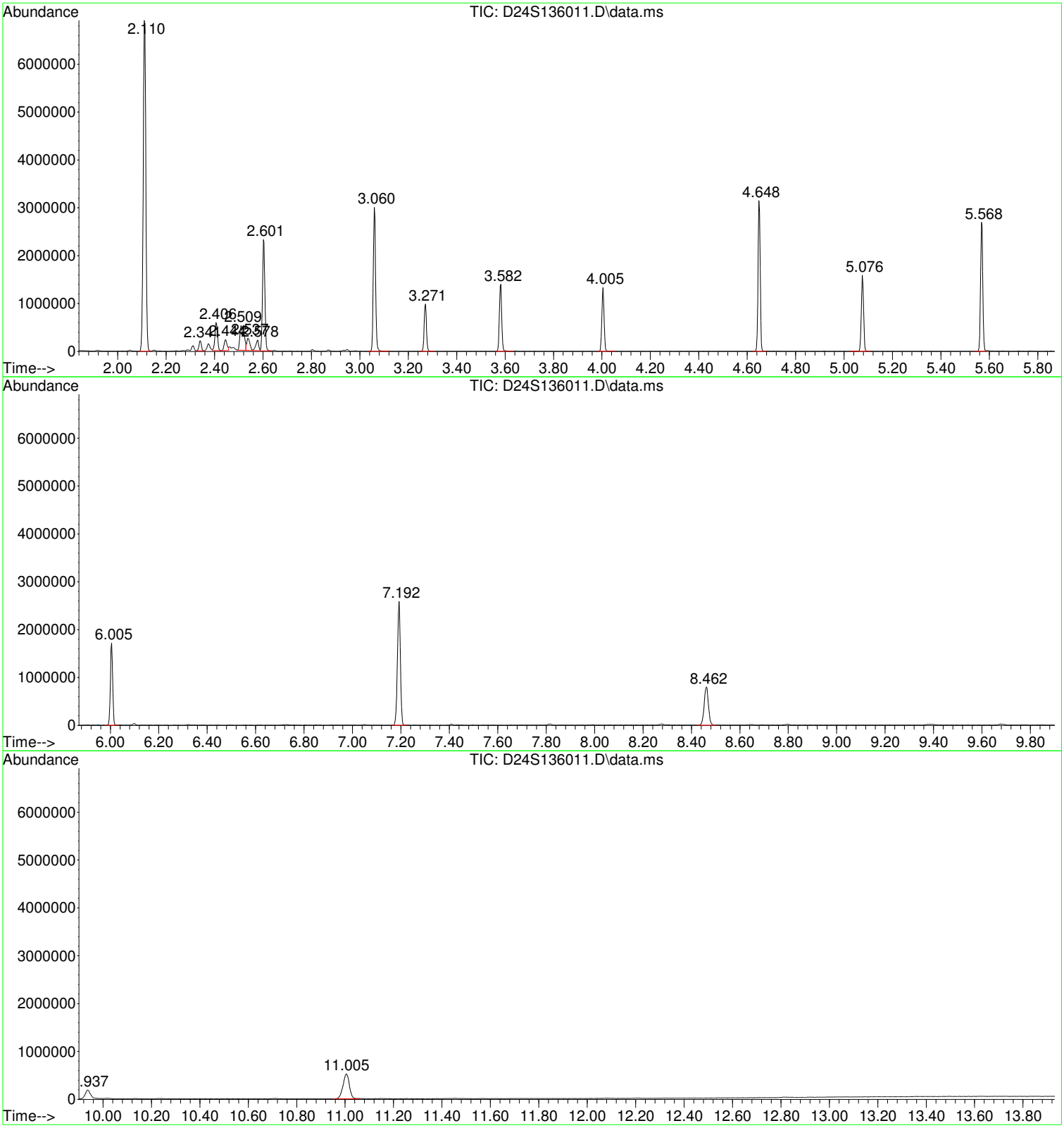
Sum of corrected areas: 23215299

Data Path : C:\msdchem\1\DATA\D051524\
Data File : D24S136011.D
Acq On : 15 May 2024 10:17 am
Operator : BGL
Sample : B374087-BLK1@/TIC
Misc :
ALS Vial : 11 Sample Multiplier: 1

686

Quant Method : C:\MSDCHEM\1\METHODS\BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL

TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: rteint.p



687

Data Path : C:\msdchem\1\DATA\D051524\
Data File : D24S136011.D
Acq On : 15 May 2024 10:17 am
Operator : BGL
Sample : B374087-BLK1@/TIC
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL

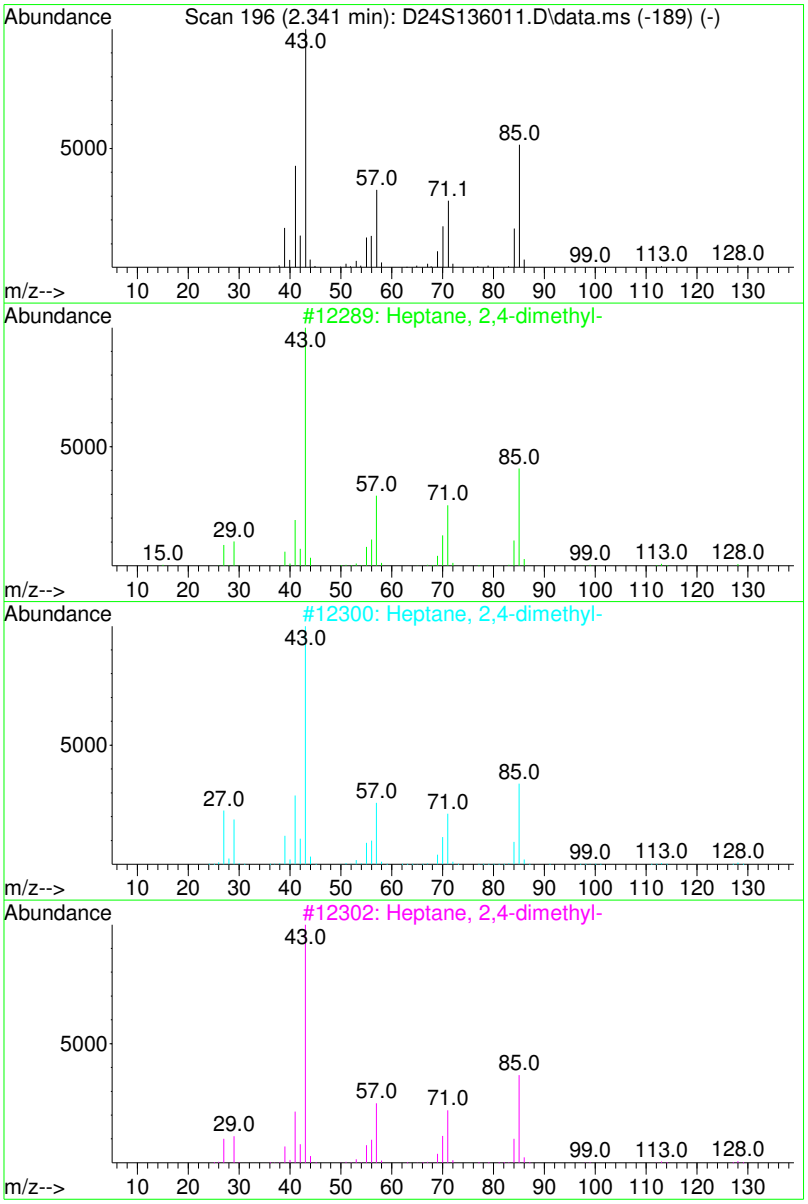
TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: rteint.p

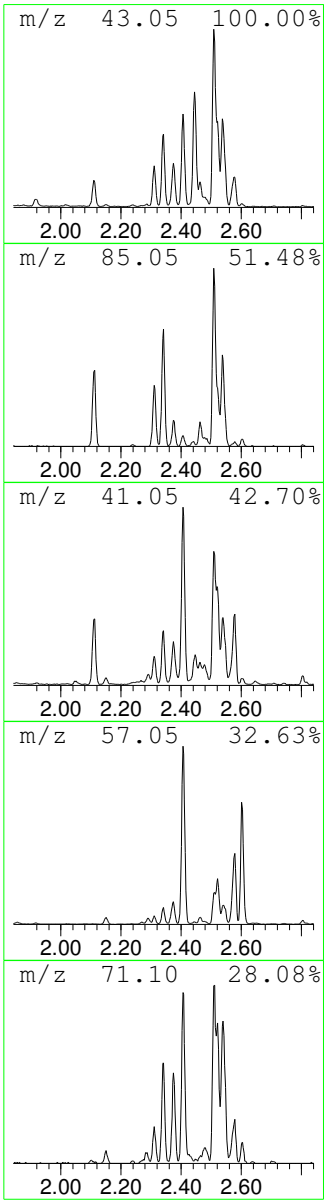
****

Peak Number 2 Heptane, 2,4-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.341	9.34 ug/ml	150608	1,4-Dichlorobenzene-D4	3.271

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	91
2	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	91
3	Heptane, 2,4-dimethyl-	128	C9H20	002213-23-2	81
4	Octane	114	C8H18	000111-65-9	78
5	Octane, 4-methyl-	128	C9H20	002216-34-4	64





688

Data Path : C:\msdchem\1\DATA\D051524\
Data File : D24S136011.D
Acq On : 15 May 2024 10:17 am
Operator : BGL
Sample : B374087-BLK1@/TIC
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL

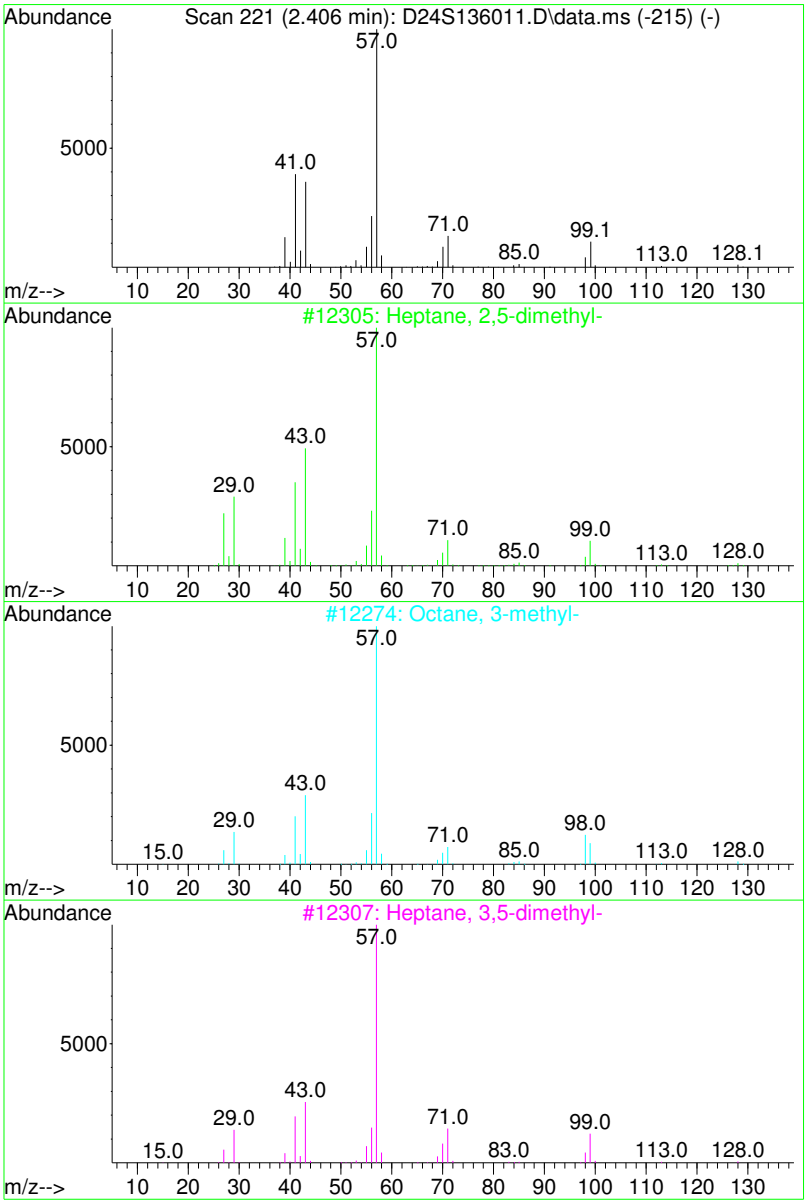
TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: rteint.p

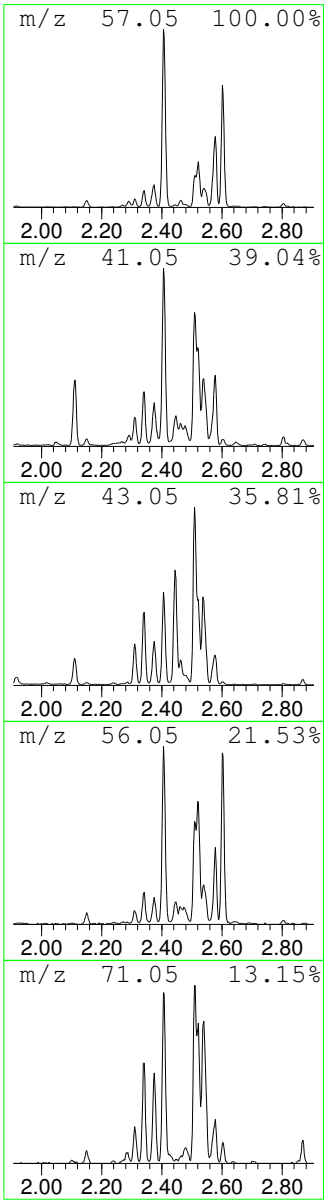
****

Peak Number 3 Heptane, 2,5-dimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.406	26.85 ug/ml	433097	1,4-Dichlorobenzene-D4	3.271

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2,5-dimethyl-	128	C9H20	002216-30-0	91
2	Octane, 3-methyl-	128	C9H20	002216-33-3	91
3	Heptane, 3,5-dimethyl-	128	C9H20	000926-82-9	91
4	Heptane, 2,5-dimethyl-	128	C9H20	002216-30-0	91
5	Heptane, 2,5-dimethyl-	128	C9H20	002216-30-0	91





689

Data Path : C:\msdchem\1\DATA\D051524\
Data File : D24S136011.D
Acq On : 15 May 2024 10:17 am
Operator : BGL
Sample : B374087-BLK1@/TIC
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL

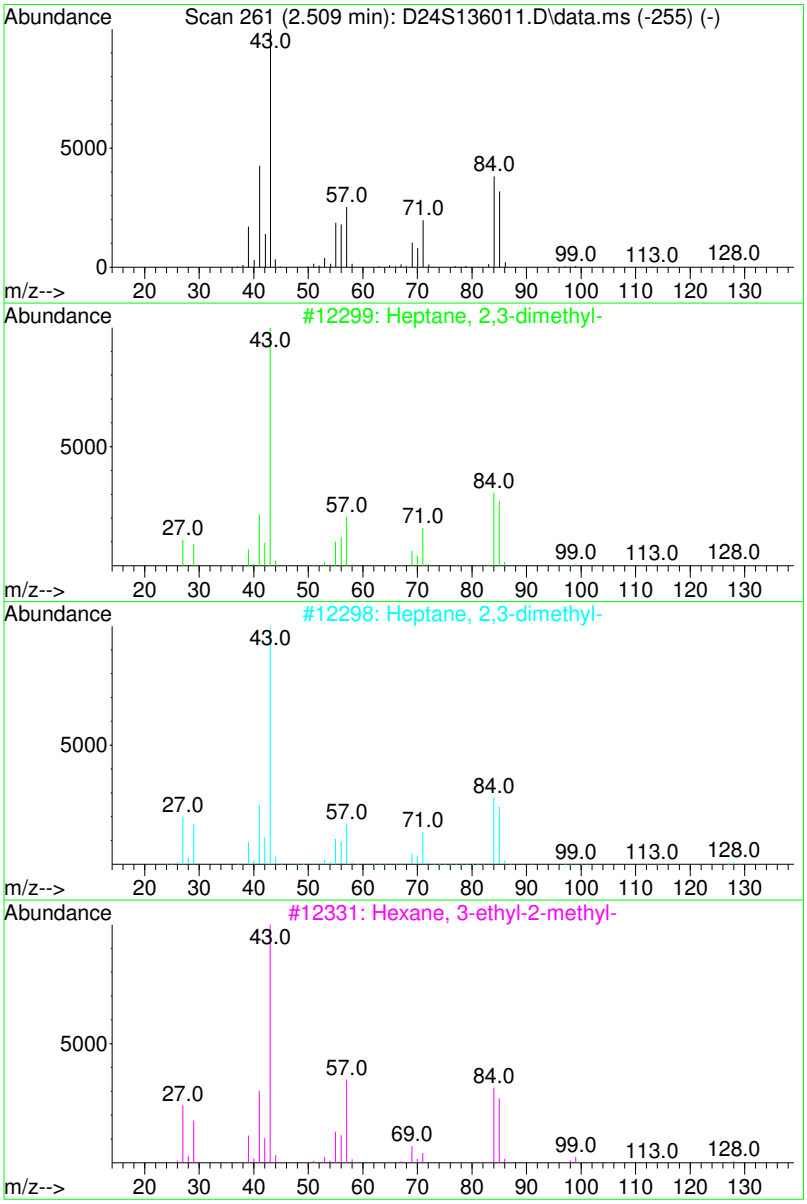
TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: rteint.p

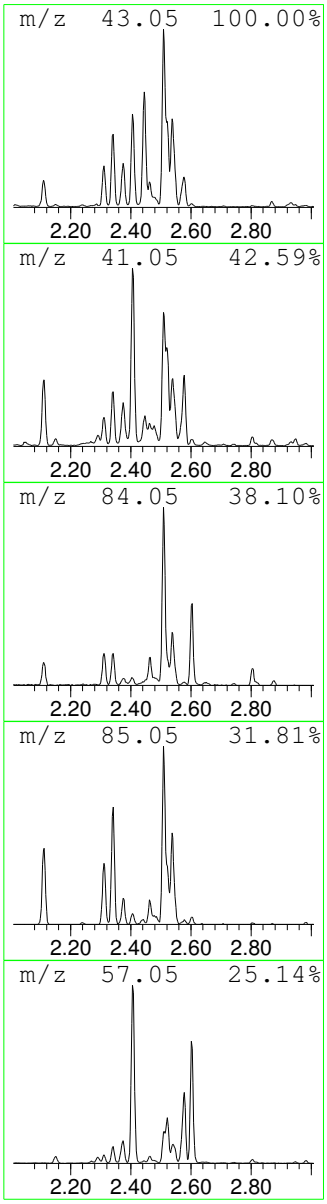
****

Peak Number 5 Heptane, 2,3-dimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.509	36.60 ug/ml	590434	1,4-Dichlorobenzene-D4	3.271

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2,3-dimethyl-	128	C9H20	003074-71-3	91
2	Heptane, 2,3-dimethyl-	128	C9H20	003074-71-3	90
3	Hexane, 3-ethyl-2-methyl-	128	C9H20	016789-46-1	80
4	Heptane, 2,3-dimethyl-	128	C9H20	003074-71-3	80
5	Decane, 5,6-dimethyl-	170	C12H26	001636-43-7	78





690

Data Path : C:\msdchem\1\DATA\D051524\
Data File : D24S136011.D
Acq On : 15 May 2024 10:17 am
Operator : BGL
Sample : B374087-BLK1@/TIC
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL

TIC Library : C:\Database\NIST05.L
TIC Integration Parameters: rteint.p

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Heptane, 2,4-di...	2.341	9.3	ug/ml	150608	1	3.271	645262	40.0
Heptane, 2,5-di...	2.406	26.9	ug/ml	433097	1	3.271	645262	40.0
Heptane, 2,3-di...	2.509	36.6	ug/ml	590434	1	3.271	645262	40.0

1 - FORM I
ANALYSIS DATA SHEET

LCS

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374087-BS1	File ID:	D24S136009.D
Sampled:		Prepared:	05/12/24 07:21	Analyzed:	05/15/24 09:36
Solids:		Preparation:	SW-846 3546	Dilution:	
Initial/Final:	30.62 g / 1 mL				
Batch:	B374087	Sequence:	S104589	Calibration:	2400207
Instrument:	GCMSSV4				
Column:	1				

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
58-90-2	2,3,4,6-Tetrachlorophenol	1.27	0.045	0.66	
1912-24-9	Atrazine	1.53	0.043	0.66	
100-52-7	Benzaldehyde	0.884	0.053	0.33	
92-52-4	Biphenyl	1.61	0.042	0.66	
105-60-2	Caprolactam	1.33	0.058	0.33	
83-32-9	Acenaphthene	1.37	0.032	0.17	
208-96-8	Acenaphthylene	1.39	0.030	0.17	
98-86-2	Acetophenone	1.50	0.035	0.33	
62-53-3	Aniline	0.831	0.058	0.33	
120-12-7	Anthracene	1.50	0.029	0.17	
56-55-3	Benzo(a)anthracene	1.50	0.027	0.17	
50-32-8	Benzo(a)pyrene	1.49	0.030	0.17	
205-99-2	Benzo(b)fluoranthene	1.50	0.027	0.17	
191-24-2	Benzo(g,h,i)perylene	1.66	0.048	0.17	
207-08-9	Benzo(k)fluoranthene	1.58	0.030	0.17	
111-91-1	Bis(2-chloroethoxy)methane	1.59	0.036	0.33	
111-44-4	Bis(2-chloroethyl)ether	1.62	0.047	0.33	
108-60-1	Bis(2-chloroisopropyl)ether	2.22	0.21	0.33	
117-81-7	Bis(2-Ethylhexyl)phthalate	2.49	0.039	0.33	V-06, L-05
101-55-3	4-Bromophenylphenylether	1.50	0.030	0.33	
85-68-7	Butylbenzylphthalate	1.93	0.037	0.33	V-06
86-74-8	Carbazole	1.48	0.034	0.17	
106-47-8	4-Chloroaniline	0.904	0.059	0.65	
59-50-7	4-Chloro-3-methylphenol	1.51	0.035	0.65	
91-58-7	2-Chloronaphthalene	1.36	0.029	0.33	
95-57-8	2-Chlorophenol	1.46	0.033	0.33	
7005-72-3	4-Chlorophenylphenylether	1.51	0.028	0.33	
218-01-9	Chrysene	1.46	0.030	0.17	
53-70-3	Dibenz(a,h)anthracene	1.85	0.046	0.17	V-06

1 - FORM I
ANALYSIS DATA SHEET

LCS

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374087-BS1	File ID:	D24S136009.D
Sampled:		Prepared:	05/12/24 07:21	Analyzed:	05/15/24 09:36
Solids:		Preparation:	SW-846 3546	Dilution:	
Initial/Final:	30.62 g / 1 mL				
Batch:	B374087	Sequence:	S104589	Calibration:	2400207
Instrument:	GCMSSV4				
Column:	1				

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
132-64-9	Dibenzofuran	1.52	0.030	0.33	
84-74-2	Di-n-butylphthalate	1.93	0.13	0.33	V-06
91-94-1	3,3-Dichlorobenzidine	1.09	0.072	0.17	
120-83-2	2,4-Dichlorophenol	1.35	0.032	0.33	
84-66-2	Diethylphthalate	1.66	0.032	0.33	
105-67-9	2,4-Dimethylphenol	0.838	0.077	0.33	
131-11-3	Dimethylphthalate	1.52	0.031	0.33	
534-52-1	4,6-Dinitro-2-methylphenol	1.52	0.26	0.33	
51-28-5	2,4-Dinitrophenol	0.907	0.26	0.65	
121-14-2	2,4-Dinitrotoluene	1.59	0.034	0.33	
606-20-2	2,6-Dinitrotoluene	1.64	0.035	0.33	
117-84-0	Di-n-octylphthalate	2.43	0.047	0.33	V-06, L-02
206-44-0	Fluoranthene	1.47	0.027	0.17	
86-73-7	Fluorene	1.48	0.030	0.17	
118-74-1	Hexachlorobenzene	1.37	0.032	0.33	
87-68-3	Hexachlorobutadiene	1.33	0.030	0.33	
77-47-4	Hexachlorocyclopentadiene	0.298	0.22	0.33	V-05, L-04, J
67-72-1	Hexachloroethane	1.41	0.031	0.33	
193-39-5	Indeno(1,2,3-cd)pyrene	1.78	0.054	0.17	
78-59-1	Isophorone	1.60	0.035	0.33	
90-12-0	1-Methylnaphthalene	1.45	0.033	0.17	
91-57-6	2-Methylnaphthalene	1.47	0.028	0.17	
95-48-7	2-Methylphenol	1.46	0.044	0.33	
108-39-4/106-44-5	3/4-Methylphenol	1.63	0.044	0.33	
91-20-3	Naphthalene	1.44	0.058	0.17	
88-74-4	2-Nitroaniline	1.75	0.040	0.33	
99-09-2	3-Nitroaniline	1.39	0.069	0.33	
100-01-6	4-Nitroaniline	1.51	0.037	0.33	
98-95-3	Nitrobenzene	1.48	0.042	0.33	

1 - FORM I
ANALYSIS DATA SHEET

LCS

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374087-BS1	File ID:	D24S136009.D
Sampled:		Prepared:	05/12/24 07:21	Analyzed:	05/15/24 09:36
Solids:		Preparation:	SW-846 3546	Dilution:	
Initial/Final:	30.62 g / 1 mL				
Batch:	B374087	Sequence:	S104589	Calibration:	2400207
Instrument:	GCMSSV4				
Column:	1				

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
88-75-5	2-Nitrophenol	1.50	0.032	0.33	
100-02-7	4-Nitrophenol	1.59	0.089	0.65	
86-30-6	N-Nitrosodiphenylamine/Diphenylamine	1.64	0.042	0.33	
621-64-7	N-Nitrosodi-n-propylamine	1.71	0.046	0.33	
87-86-5	Pentachlorophenol	1.02	0.12	0.33	V-05
85-01-8	Phenanthrene	1.50	0.029	0.17	
108-95-2	Phenol	1.50	0.042	0.33	
129-00-0	Pyrene	1.44	0.035	0.17	
110-86-1	Pyridine	0.801	0.039	0.33	
95-94-3	1,2,4,5-Tetrachlorobenzene	1.38	0.033	0.33	
95-95-4	2,4,5-Trichlorophenol	1.44	0.034	0.33	
88-06-2	2,4,6-Trichlorophenol	1.41	0.032	0.33	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D051524\
Data File : D24S136009.D
Acq On : 15 May 2024 9:36 am
Operator : BGL
Sample : B374087-BS1@/ders Inst : GCMSSV4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 16 15:18:18 2024
Quant Method : C:\MSDCHEM\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Wed Apr 24 09:02:55 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-D4	3.271	152	86677	40.00	ug/ml	-0.04
19) NAPHTHALENE-d8	4.005	136	328336	40.00	ug/ml	-0.04
35) ACENAPHTHENE-D10	5.078	164	183093	40.00	ug/ml	-0.04
58) PHENANTHRENE-D10	6.005	188	322958	40.00	ug/ml	-0.04
71) CHRYSENE-D12	8.467	240	296344	40.00	ug/ml	-0.07
80) PERYLENE-D12	11.006	264	309004	40.00	ug/ml	-0.09
System Monitoring Compounds						
2) 2-Fluorophenol	2.604	112	422705	200.18	ug/ml	-0.04
Spiked Amount 200.000	Range 30 - 130		Recovery = 100.09%			
3) Phenol-d6	3.062	99	659734	196.98	ug/ml	-0.04
Spiked Amount 200.000	Range 30 - 130		Recovery = 98.49%			
20) Nitrobenzene-d5	3.583	82	308064	101.28	ug/ml	-0.04
Spiked Amount 100.000	Range 30 - 130		Recovery = 101.28%			
36) 2-Fluorobiphenyl	4.651	172	570542	101.57	ug/ml	-0.04
Spiked Amount 100.000	Range 30 - 130		Recovery = 101.57%			
37) 2,4,6-Tribromophenol	5.570	330	174568	182.91	ug/ml	-0.04
Spiked Amount 200.000	Range 30 - 130		Recovery = 91.45%			
72) Terphenyl-d14	7.192	244	664070	111.05	ug/ml	-0.06
Spiked Amount 100.000	Range 30 - 130		Recovery = 111.05%			
Target Compounds						Qvalue
4) N-Nitrosodimethylamine	1.968	42	77800	43.51	ug/ml	95
5) Pyridine	1.994	79	75276	24.54	ug/ml	89
6) Aniline	3.093	66	40341	25.44	ug/ml	93
7) Phenol	3.070	94	172845	45.97	ug/ml	87
8) Bis(2-chloroethyl)ether	3.114	63	97202	49.62	ug/ml	90
9) 2-Chlorophenol	3.163	128	130977	44.74	ug/ml	95
10) 1,3-Dichlorobenzene	3.240	146	129256	38.47	ug/ml	98
11) 1,4-Dichlorobenzene	3.281	146	133339	39.62	ug/ml	97
12) 1,2-Dichlorobenzene	3.366	146	127150	40.60	ug/ml	97
13) 2- METHYLPHENOL	3.397	108	114219	44.85	ug/ml#	84
14) Bis(2-Chloroisopropyl)...	3.400	45	176002	67.87	ug/ml#	66
15) Acetophenone	3.490	105	184064	45.88	ug/ml#	71
16) 3/4- METHYLPHENOL	3.482	107	143920	49.90	ug/ml#	44
17) N-Nitroso-Di-N-Propyla...	3.480	70	111922	52.38	ug/ml	88
18) Hexachloroethane	3.557	117	54305	43.07	ug/ml	91
21) NITROBENZENE	3.595	77	151597	45.23	ug/ml	96
22) Isophorone	3.724	82	274057	48.97	ug/ml	99
23) 2-Nitrophenol	3.776	139	69791	45.79	ug/ml	99
24) 2,4-Dimethylphenol	3.789	122	70918	25.67	ug/ml	93
25) Bis(2-Chloroethoxy)met...	3.840	93	152935	48.57	ug/ml	96
26) Benzoic Acid	3.837	122	56998m	32.87	ug/ml	
27) 2,4-Dichlorophenol	3.920	162	112861	41.49	ug/ml	97
28) 1,2,4-Trichlorobenzene	3.966	180	117395	39.10	ug/ml	99
29) Naphthalene	4.018	128	360770	44.14	ug/ml	100
30) 4-Chloroaniline	4.046	127	92635	27.69	ug/ml	95
31) Hexachlorobutadiene	4.077	225	70329	40.87	ug/ml	99
32) 4-Chloro-3-Methylphenol	4.337	107	121909	46.11	ug/ml	97
33) 2-MethylNaphthalene	4.432	142	251448	44.87	ug/ml	98
34) 1-Methylnaphthalene	4.494	142	228245	44.29	ug/ml	98
38) Hexachlorocyclopentadiene	4.520	237	16450	9.14	ug/ml	99
39) 1,2,4,5-Tetrachloroben...	4.533	216	126020	42.17	ug/ml	99
40) 2,4,6-Trichlorophenol	4.605	196	83896	43.10	ug/ml	99
41) 2,4,5-Trichlorophenol	4.636	196	88742	44.00	ug/ml	99
42) 2-ChloroNaphthalene	4.736	162	266932	41.55	ug/ml	97

Data Path : C:\msdchem\1\DATA\D051524\
Data File : D24S136009.D
Acq On : 15 May 2024 9:36 am
Operator : BGL
Sample : B374087-BS1@/ders Inst : GCMSSV4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 16 15:18:18 2024
Quant Method : C:\MSDCHEM\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Wed Apr 24 09:02:55 2024
Response via : Initial Calibration

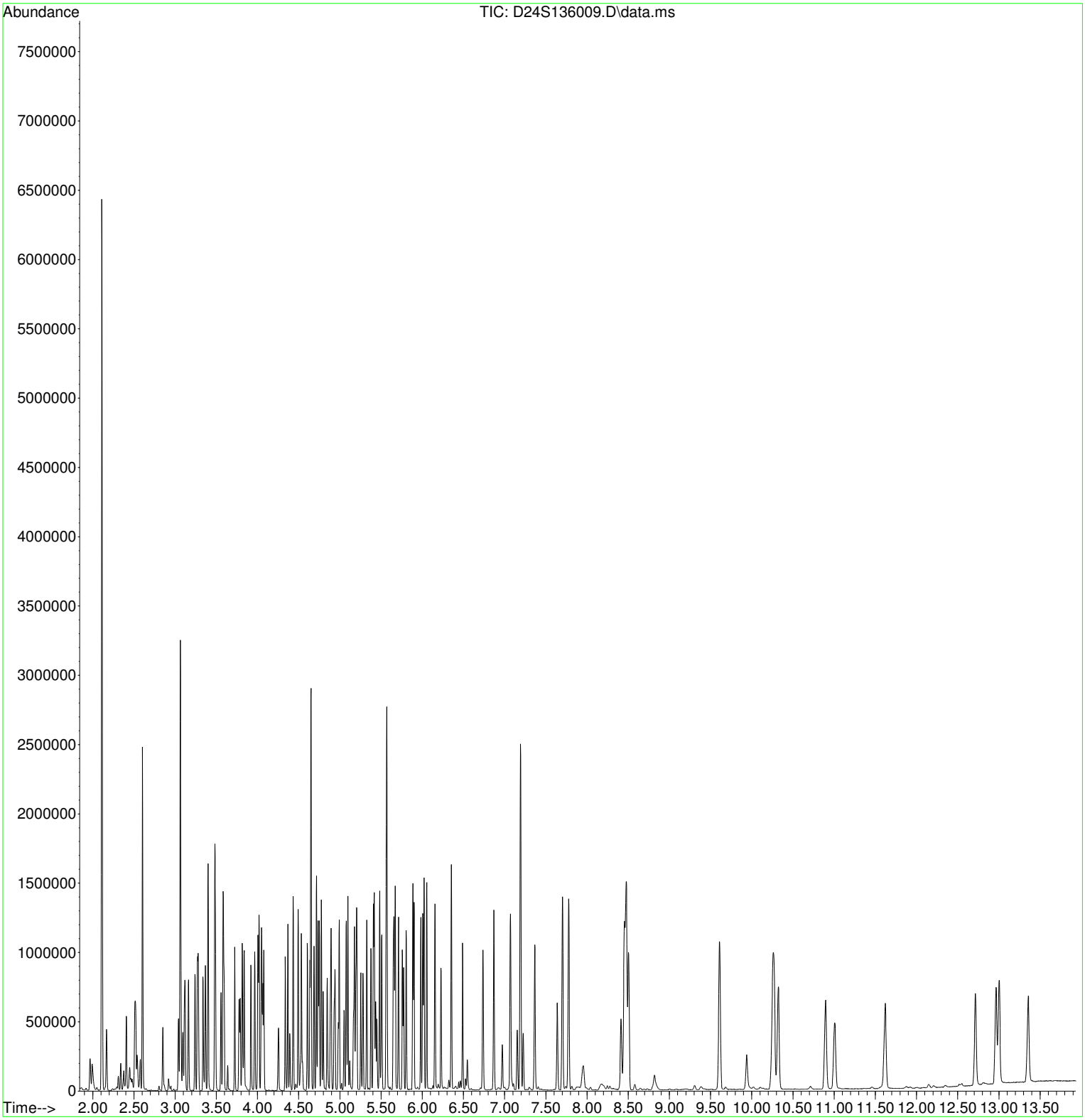
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) 2-Nitroaniline	4.798	65	83067	53.63	ug/ml	92
44) 1,1-Biphenyl	4.715	154	311023	49.34	ug/ml	98
45) DIMETHYL PHTHALATE	4.893	163	280515	46.68	ug/ml	100
46) 2,6-DinitroToluene	4.942	165	62708	50.18	ug/ml#	81
47) Acenaphthylene	4.994	152	351966	42.56	ug/ml	99
48) 3-Nitroaniline	5.050	138	55652	42.46	ug/ml	98
49) Acenaphthene	5.099	154	213926	41.95	ug/ml	94
50) 2,4-Dinitrophenol	5.120	184	16533	27.78	ug/ml#	1
51) 4-Nitrophenol	5.166	109	46134	48.72	ug/ml	92
52) Dibenzofuran	5.205	168	338136	46.48	ug/ml	96
53) 2,4-Dinitrotoluene	5.194	165	85440	48.83	ug/ml#	75
54) DIETHYL PHTHALATE	5.326	149	299070	50.81	ug/ml	99
55) 4-Chlorophenyl phenyl ...	5.405	204	138383	46.38	ug/ml	95
56) Flourene	5.418	166	273955	45.21	ug/ml	100
57) 4-Nitroaniline	5.434	138	66347	46.38	ug/ml	97
59) 4,6-Dinitro-2-Methylph...	5.449	198	42530	46.66	ug/ml	89
60) N-Nitrosodiphenylamine	5.483	169	229225	50.16	ug/ml	98
61) 1,2-Diphenylhydrazine	5.508	77	314586	54.62	ug/ml	96
62) 4-Bromophenyl phenyl e...	5.712	248	77634	45.96	ug/ml	97
63) Hexachlorobenzene	5.761	284	81444	42.07	ug/ml	89
64) Pentachlorophenol	5.887	266	44228	31.25	ug/ml	98
65) Pentachloronitrobenzene	5.887	295	14349	42.71	ug/ml#	72
66) Phenanthrene	6.021	178	387108	45.93	ug/ml	99
67) Anthracene	6.054	178	391234	46.06	ug/ml	100
68) Carbazole	6.155	167	367258	45.41	ug/ml	99
69) Di-N-Butyl Phthalate	6.353	149	566750	59.07	ug/ml	100
70) Flouranthene	6.870	202	446350	44.89	ug/ml	98
73) Benzidine	6.971	184	105374	35.49	ug/ml	99
74) Pyrene	7.071	202	461675	44.20	ug/ml	100
75) Butylbenzyl phthalate	7.702	149	268520	59.14	ug/ml	96
76) 3,3'-Dichlorobenzidine	8.413	252	121089	33.28	ug/ml	99
77) Benzo(a)anthracene	8.451	228	476812	45.92	ug/ml	100
78) Chrysene	8.503	228	432608	44.70	ug/ml	100
79) Bis(2-ethylhexyl)phtha...	8.480	149	434032	76.32	ug/ml	99
81) Di-n-octylphthalate	9.610	149	773232	74.38	ug/ml	95
82) Benzo(b)fluoranthene	10.272	252	486473	46.08	ug/ml	97
83) Benzo(k)fluoranthene	10.323	252	448182	48.50	ug/ml	97
84) Benzo(a)pyrene	10.897	252	418418	45.56	ug/ml	98
85) Indeno(1,2,3-cd)pyrene	12.965	276	410531	54.57	ug/ml	97
86) Dibenz(a,h)anthracene	13.004	278	413019	56.50	ug/ml	99
87) Benzo(g,h,i)perylene	13.359	276	359814	50.71	ug/ml	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\D051524\
Data File : D24S136009.D
Acq On : 15 May 2024 9:36 am
Operator : BGL
Sample : B374087-BS1@/ders Inst : GCMSSV4
Misc :
ALS Vial : 9 Sample Multiplier: 1

696

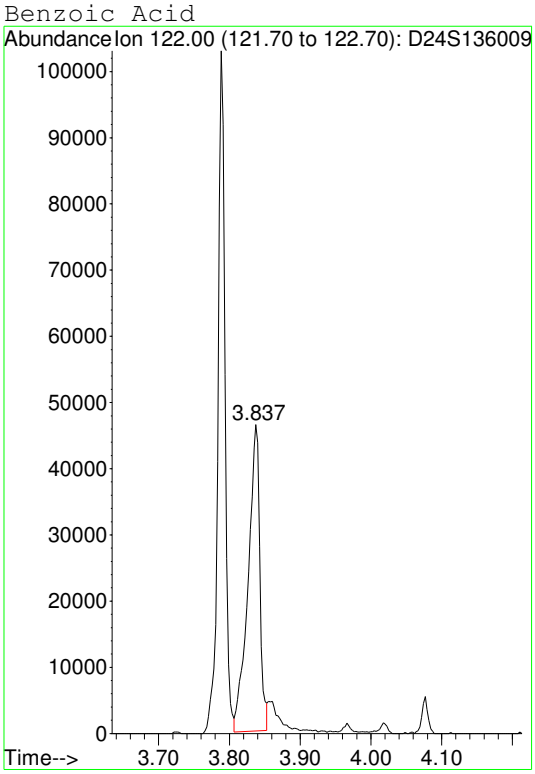
Quant Time: May 16 15:18:18 2024
Quant Method : C:\MSDCHEM\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Wed Apr 24 09:02:55 2024
Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\D051524\
Data File : D24S136009.D
Acq On : 15 May 2024 9:36 am
Operator : BGL
Sample : B374087-BS1@/ders
Misc :

Quant Time : Thu May 16 15:18:18 2024
Quant Method : C:\MSDCHEM\1\METHODS\BND02154.M
QLast Update : Wed Apr 24 09:02:55 2024

Original Integration
Benzoic Acid



Original Int. Results

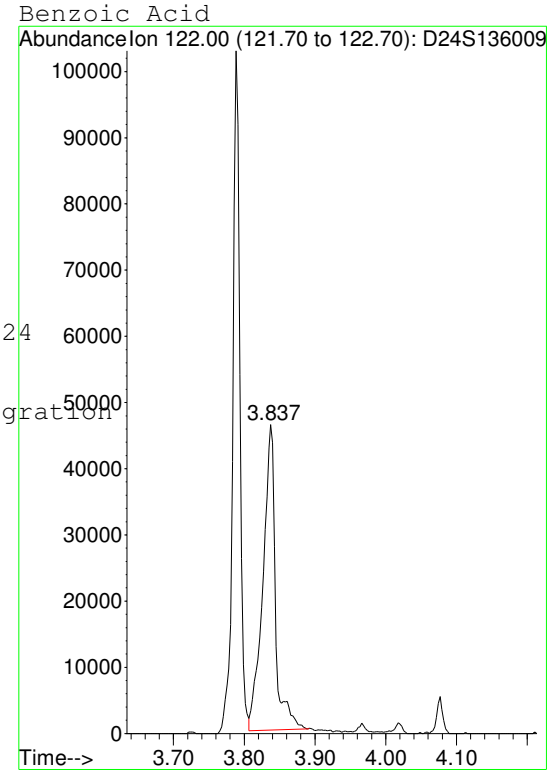
RT : 3.84
Area : 53501
Amount: 30.8508

Manual Int. Results

Thu May 16 15:18:18 2024

MIuser: BGL
Reason: Incorrect Integration
RT : 3.84
Area : 56998
Amount: 32.8673

Manual Integration
Benzoic Acid



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D051524\
Data File : D24S136009.D
Acq On : 15 May 2024 9:36 am
Operator : BGL
Sample : B374087-BS1@/ders Inst : GCMSSV4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 16 10:23:27 2024
Quant Method : C:\msdchem\1\METHODS\NCD02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270STD SVMS4 N.C. apx2 extra compds PulseWool
QLast Update : Fri Feb 16 07:00:23 2024
Response via : Initial Calibration

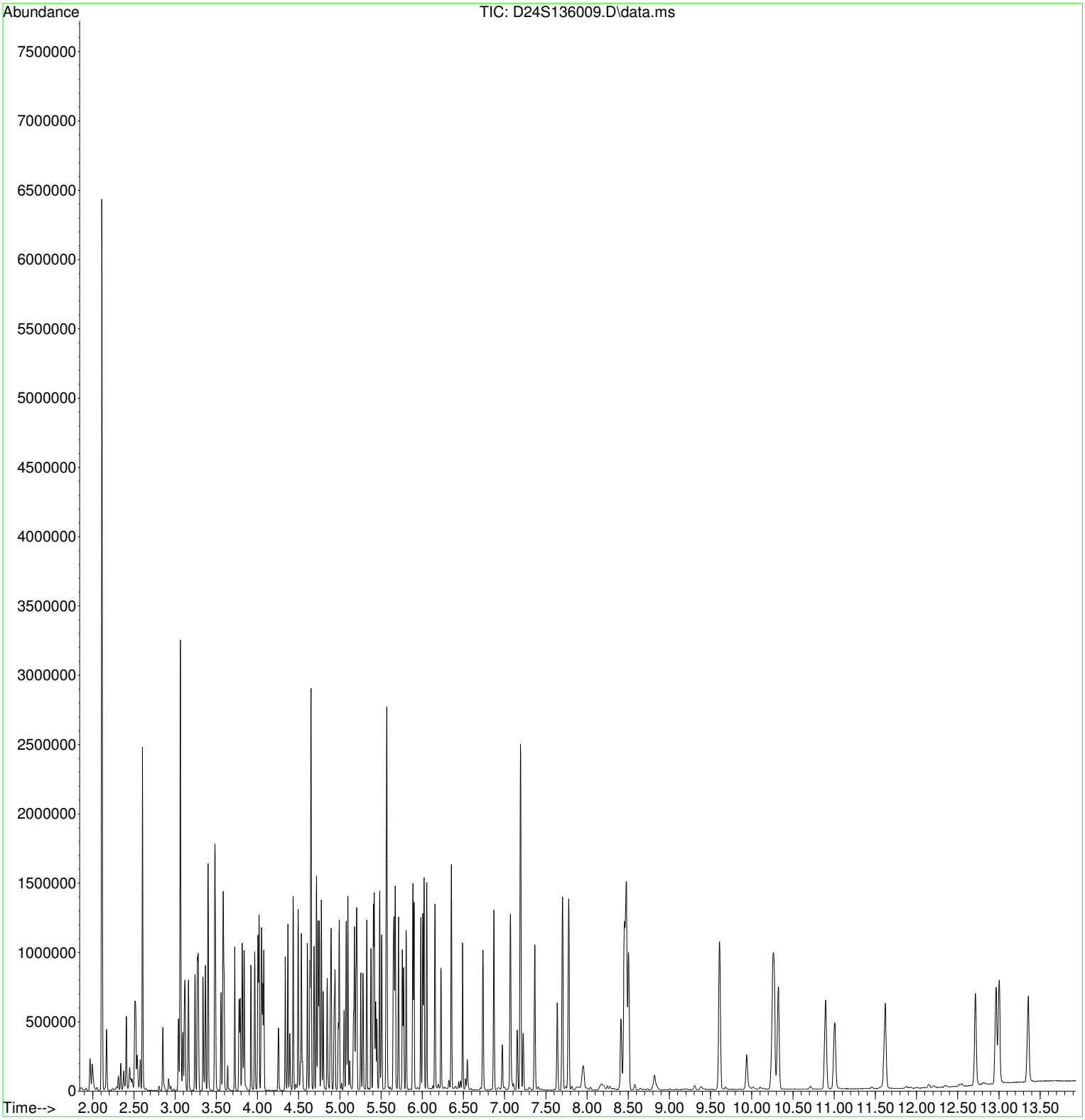
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-D4...	3.271	152	86677	40.00	ug/ml	#-0.03
6) NAPHTHALENE-d8 (2)	4.005	136	328336	40.00	ug/ml	-0.04
10) ACENAPHTHENE-D10 (2)	5.078	164	183093	40.00	ug/ml	-0.01
16) PHENANTHRENE-D10 (2)	6.005	188	322958	40.00	ug/ml	-0.01
17) CHRYSENE-D12 (2)	8.467	240	296344	40.00	ug/ml	-0.06
19) PERYLENE-D12 (2)	11.006	264	309004	40.00	ug/ml	-0.04
System Monitoring Compounds						
2) 2-Fluorophenol	0.000	112	0	0.00	ug/ml	
Spiked Amount 200.000	Range 30 - 130		Recovery =	0.00%#		
3) Phenol-d6	3.062	99	659734	0.00	ug/ml	-0.13
Spiked Amount 200.000	Range 30 - 130		Recovery =	0.00%#		
7) Nitrobenzene-d5	3.583	82	307784	0.00	ug/ml	-0.01
Spiked Amount 100.000	Range 30 - 130		Recovery =	0.00%#		
11) 2-Fluorobiphenyl	4.651	172	570542	0.00	ug/ml	0.02
Spiked Amount 100.000	Range 30 - 130		Recovery =	0.00%#		
12) 2,4,6-Tribromophenol	0.000	330	0	0.00	ug/ml	
Spiked Amount 200.000	Range 30 - 130		Recovery =	0.00%#		
18) Terphenyl-d14	7.192	244	664070	0.00	ug/ml	-0.11
Spiked Amount 100.000	Range 30 - 130		Recovery =	0.00%#		
Target Compounds						Qvalue
4) Benzaldehyde	3.042	106	64607	27.08	ug/ml	98
5) Benzyl Alcohol	3.338	108	86038	43.28	ug/ml	98
8) 2,6-Dichlorophenol	4.051	162	111122	38.39	ug/ml#	86
9) Caprolactam	4.255	113	35057	40.80	ug/ml#	86
13) Biphenyl	4.715	154	311023	41.54	ug/ml	98
14) 2,3,4,6-Tetrachlorophenol	5.279	230	51895	38.88	ug/ml	98
15) Atrazine	5.805	200	84712	46.87	ug/ml	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\D051524\
Data File : D24S136009.D
Acq On : 15 May 2024 9:36 am
Operator : BGL
Sample : B374087-BS1@/ders Inst : GCMSSV4
Misc :
ALS Vial : 9 Sample Multiplier: 1

699

Quant Time: May 16 10:23:27 2024
Quant Method : C:\msdchem\1\METHODS\NCD02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270STD SVMS4 N.C. apx2 extra compds PulseWool
QLast Update : Fri Feb 16 07:00:23 2024
Response via : Initial Calibration



1 - FORM I
ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374087-BSD1	File ID:	D24S136010.D
Sampled:		Prepared:	05/12/24 07:21	Analyzed:	05/15/24 09:56
Solids:		Preparation:	SW-846 3546	Dilution:	
Initial/Final:	30.45 g / 1 mL				
Batch:	B374087	Sequence:	S104589	Calibration:	2400207
Instrument:	GCMSSV4				
Column:	1				

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
58-90-2	2,3,4,6-Tetrachlorophenol	1.24	0.045	0.66	
1912-24-9	Atrazine	1.49	0.043	0.66	
100-52-7	Benzaldehyde	0.859	0.053	0.33	
92-52-4	Biphenyl	1.54	0.042	0.66	
105-60-2	Caprolactam	1.27	0.058	0.33	
83-32-9	Acenaphthene	1.33	0.032	0.17	
208-96-8	Acenaphthylene	1.35	0.030	0.17	
98-86-2	Acetophenone	1.42	0.035	0.33	
62-53-3	Aniline	0.751	0.058	0.33	
120-12-7	Anthracene	1.48	0.029	0.17	
56-55-3	Benzo(a)anthracene	1.49	0.027	0.17	
50-32-8	Benzo(a)pyrene	1.48	0.030	0.17	
205-99-2	Benzo(b)fluoranthene	1.46	0.027	0.17	
191-24-2	Benzo(g,h,i)perylene	1.64	0.048	0.17	
207-08-9	Benzo(k)fluoranthene	1.58	0.030	0.17	
111-91-1	Bis(2-chloroethoxy)methane	1.55	0.036	0.33	
111-44-4	Bis(2-chloroethyl)ether	1.57	0.048	0.33	
108-60-1	Bis(2-chloroisopropyl)ether	2.13	0.21	0.33	
117-81-7	Bis(2-Ethylhexyl)phthalate	2.43	0.040	0.33	L-05, V-06
101-55-3	4-Bromophenylphenylether	1.44	0.031	0.33	
85-68-7	Butylbenzylphthalate	1.91	0.037	0.33	V-06
86-74-8	Carbazole	1.48	0.034	0.17	
106-47-8	4-Chloroaniline	0.827	0.059	0.65	
59-50-7	4-Chloro-3-methylphenol	1.47	0.035	0.65	
91-58-7	2-Chloronaphthalene	1.19	0.029	0.33	
95-57-8	2-Chlorophenol	1.41	0.034	0.33	
7005-72-3	4-Chlorophenylphenylether	1.46	0.028	0.33	
218-01-9	Chrysene	1.46	0.030	0.17	
53-70-3	Dibenz(a,h)anthracene	1.83	0.046	0.17	V-06

1 - FORM I
ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374087-BSD1	File ID:	D24S136010.D
Sampled:		Prepared:	05/12/24 07:21	Analyzed:	05/15/24 09:56
Solids:		Preparation:	SW-846 3546	Dilution:	
Initial/Final:	30.45 g / 1 mL				
Batch:	B374087	Sequence:	S104589	Calibration:	2400207
Instrument:	GCMSSV4				
Column:	1				

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
132-64-9	Dibenzofuran	1.47	0.030	0.33	
84-74-2	Di-n-butylphthalate	1.93	0.13	0.33	V-06
91-94-1	3,3-Dichlorobenzidine	1.00	0.072	0.17	
120-83-2	2,4-Dichlorophenol	1.30	0.032	0.33	
84-66-2	Diethylphthalate	1.60	0.032	0.33	
105-67-9	2,4-Dimethylphenol	0.801	0.077	0.33	
131-11-3	Dimethylphthalate	1.48	0.032	0.33	
534-52-1	4,6-Dinitro-2-methylphenol	1.56	0.26	0.33	
51-28-5	2,4-Dinitrophenol	0.902	0.26	0.65	
121-14-2	2,4-Dinitrotoluene	1.57	0.034	0.33	
606-20-2	2,6-Dinitrotoluene	1.61	0.035	0.33	
117-84-0	Di-n-octylphthalate	2.35	0.047	0.33	L-02, V-06
206-44-0	Fluoranthene	1.47	0.027	0.17	
86-73-7	Fluorene	1.42	0.030	0.17	
118-74-1	Hexachlorobenzene	1.37	0.032	0.33	
87-68-3	Hexachlorobutadiene	1.27	0.030	0.33	
77-47-4	Hexachlorocyclopentadiene	0.240	0.22	0.33	L-04, V-05, J
67-72-1	Hexachloroethane	1.37	0.031	0.33	
193-39-5	Indeno(1,2,3-cd)pyrene	1.74	0.054	0.17	
78-59-1	Isophorone	1.53	0.036	0.33	
90-12-0	1-Methylnaphthalene	1.38	0.033	0.17	
91-57-6	2-Methylnaphthalene	1.39	0.028	0.17	
95-48-7	2-Methylphenol	1.42	0.045	0.33	
108-39-4/106-44-5	3/4-Methylphenol	1.55	0.044	0.33	
91-20-3	Naphthalene	1.38	0.059	0.17	
88-74-4	2-Nitroaniline	1.71	0.041	0.33	
99-09-2	3-Nitroaniline	1.35	0.070	0.33	
100-01-6	4-Nitroaniline	1.51	0.037	0.33	
98-95-3	Nitrobenzene	1.43	0.042	0.33	

1 - FORM I
ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374087-BSD1	File ID:	D24S136010.D
Sampled:		Prepared:	05/12/24 07:21	Analyzed:	05/15/24 09:56
Solids:		Preparation:	SW-846 3546	Dilution:	
Initial/Final:	30.45 g / 1 mL				
Batch:	B374087	Sequence:	S104589	Calibration:	2400207
Instrument:	GCMSSV4				
Column:	1				

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
88-75-5	2-Nitrophenol	1.44	0.033	0.33	
100-02-7	4-Nitrophenol	1.57	0.089	0.65	
86-30-6	N-Nitrosodiphenylamine/Diphenylamine	1.60	0.042	0.33	
621-64-7	N-Nitrosodi-n-propylamine	1.61	0.047	0.33	
87-86-5	Pentachlorophenol	1.03	0.12	0.33	V-05
85-01-8	Phenanthrene	1.48	0.030	0.17	
108-95-2	Phenol	1.45	0.042	0.33	
129-00-0	Pyrene	1.44	0.035	0.17	
110-86-1	Pyridine	0.811	0.039	0.33	
95-94-3	1,2,4,5-Tetrachlorobenzene	1.31	0.033	0.33	
95-95-4	2,4,5-Trichlorophenol	1.39	0.034	0.33	
88-06-2	2,4,6-Trichlorophenol	1.36	0.032	0.33	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D051524\
Data File : D24S136010.D
Acq On : 15 May 2024 9:56 am
Operator : BGL
Sample : B374087-BSD1 Inst : GCMSSV4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 17 07:19:35 2024
Quant Method : C:\MSDCHEM\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Wed Apr 24 09:02:55 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-D4	3.271	152	90207	40.00	ug/ml	-0.04
19) NAPHTHALENE-d8	4.005	136	339069	40.00	ug/ml	-0.04
35) ACENAPHTHENE-D10	5.079	164	188039	40.00	ug/ml	-0.04
58) PHENANTHRENE-D10	6.006	188	328954	40.00	ug/ml	-0.04
71) CHRYSENE-D12	8.464	240	305578	40.00	ug/ml	-0.07
80) PERYLENE-D12	11.008	264	322002	40.00	ug/ml	-0.09
System Monitoring Compounds						
2) 2-Fluorophenol	2.604	112	414137	188.45	ug/ml	-0.04
Spiked Amount 200.000	Range 30 - 130		Recovery = 94.22%			
3) Phenol-d6	3.063	99	641905	184.16	ug/ml	-0.04
Spiked Amount 200.000	Range 30 - 130		Recovery = 92.08%			
20) Nitrobenzene-d5	3.583	82	295365	94.03	ug/ml	-0.04
Spiked Amount 100.000	Range 30 - 130		Recovery = 94.03%			
36) 2-Fluorobiphenyl	4.649	172	550239	95.38	ug/ml	-0.04
Spiked Amount 100.000	Range 30 - 130		Recovery = 95.38%			
37) 2,4,6-Tribromophenol	5.570	330	170304	173.75	ug/ml	-0.04
Spiked Amount 200.000	Range 30 - 130		Recovery = 86.88%			
72) Terphenyl-d14	7.192	244	660674	107.15	ug/ml	-0.06
Spiked Amount 100.000	Range 30 - 130		Recovery = 107.15%			
Target Compounds						Qvalue
4) N-Nitrosodimethylamine	1.966	42	78502	42.18	ug/ml	95
5) Pyridine	1.991	79	78854	24.70	ug/ml	90
6) Aniline	3.093	66	37756	22.88	ug/ml	94
7) Phenol	3.070	94	172667	44.13	ug/ml	89
8) Bis(2-chloroethyl)ether	3.114	63	97516	47.83	ug/ml	89
9) 2-Chlorophenol	3.160	128	130707	42.90	ug/ml	95
10) 1,3-Dichlorobenzene	3.240	146	131904	37.72	ug/ml	98
11) 1,4-Dichlorobenzene	3.281	146	133315	38.06	ug/ml	97
12) 1,2-Dichlorobenzene	3.366	146	128757	39.50	ug/ml	97
13) 2- METHYLPHENOL	3.397	108	114236	43.11	ug/ml#	86
14) Bis(2-Chloroisopropyl)...	3.400	45	175036	64.86	ug/ml#	66
15) Acetophenone	3.490	105	180087	43.13	ug/ml#	69
16) 3/4- METHYLPHENOL	3.482	107	141587	47.17	ug/ml#	43
17) N-Nitroso-Di-N-Propyla...	3.480	70	108869	48.96	ug/ml	88
18) Hexachloroethane	3.554	117	54819	41.78	ug/ml	91
21) NITROBENZENE	3.593	77	150448	43.46	ug/ml	97
22) Isophorone	3.722	82	268588	46.47	ug/ml	99
23) 2-Nitrophenol	3.776	139	68931	43.79	ug/ml	99
24) 2,4-Dimethylphenol	3.789	122	69588	24.39	ug/ml	93
25) Bis(2-Chloroethoxy)met...	3.838	93	153032	47.06	ug/ml	96
26) Benzoic Acid	3.838	122	56685m	31.65	ug/ml	
27) 2,4-Dichlorophenol	3.920	162	111401	39.66	ug/ml	97
28) 1,2,4-Trichlorobenzene	3.966	180	115937	37.39	ug/ml	99
29) Naphthalene	4.018	128	354958	42.05	ug/ml	100
30) 4-Chloroaniline	4.044	127	87002	25.18	ug/ml	95
31) Hexachlorobutadiene	4.077	225	68509	38.55	ug/ml	100
32) 4-Chloro-3-Methylphenol	4.337	107	121810	44.61	ug/ml	96
33) 2-MethylNaphthalene	4.432	142	244240	42.21	ug/ml	98
34) 1-Methylnaphthalene	4.494	142	224376	42.16	ug/ml	98
38) Hexachlorocyclopentadiene	4.520	237	13510	7.31	ug/ml	98
39) 1,2,4,5-Tetrachloroben...	4.533	216	122615	39.95	ug/ml	96
40) 2,4,6-Trichlorophenol	4.605	196	82749	41.39	ug/ml	99
41) 2,4,5-Trichlorophenol	4.636	196	87628	42.31	ug/ml	100
42) 2-ChloroNaphthalene	4.736	162	238582	36.16	ug/ml	96

Data Path : C:\msdchem\1\DATA\D051524\
Data File : D24S136010.D
Acq On : 15 May 2024 9:56 am
Operator : BGL
Sample : B374087-BSD1 Inst : GCMSSV4
Misc :
ALS Vial : 10 Sample Multiplier: 1

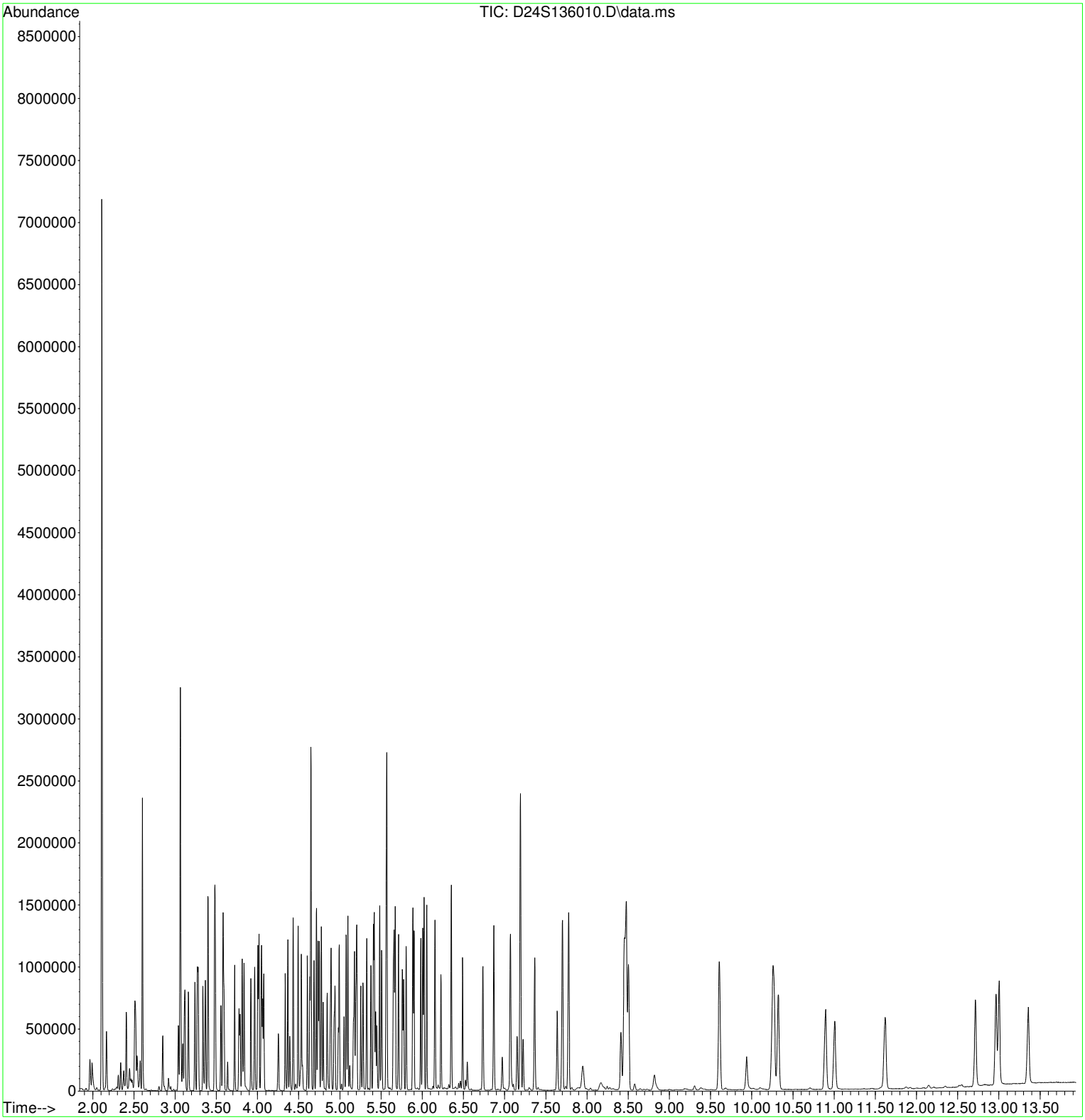
Quant Time: May 17 07:19:35 2024
Quant Method : C:\MSDCHEM\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Wed Apr 24 09:02:55 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) 2-Nitroaniline	4.798	65	83051	52.21	ug/ml	94
44) 1,1-Biphenyl	4.716	154	303190	46.83	ug/ml#	98
45) DIMETHYL PHTHALATE	4.893	163	277580	44.98	ug/ml	100
46) 2,6-DinitroToluene	4.942	165	62750	48.89	ug/ml#	82
47) Acenaphthylene	4.994	152	349605	41.17	ug/ml	99
48) 3-Nitroaniline	5.050	138	55161	40.98	ug/ml	99
49) Acenaphthene	5.097	154	211740	40.43	ug/ml	95
50) 2,4-Dinitrophenol	5.120	184	16739	27.47	ug/ml#	1
51) 4-Nitrophenol	5.166	109	46521	47.83	ug/ml	93
52) Dibenzofuran	5.205	168	334981	44.83	ug/ml	97
53) 2,4-Dinitrotoluene	5.194	165	85650	47.66	ug/ml#	76
54) DIETHYL PHTHALATE	5.326	149	294469	48.71	ug/ml	99
55) 4-Chlorophenyl phenyl ...	5.406	204	136584	44.57	ug/ml	96
56) Flourene	5.418	166	269541	43.31	ug/ml	100
57) 4-Nitroaniline	5.434	138	67345	45.84	ug/ml	96
59) 4,6-Dinitro-2-Methylph...	5.449	198	44190	47.47	ug/ml	93
60) N-Nitrosodiphenylamine	5.483	169	226540	48.67	ug/ml	98
61) 1,2-Diphenylhydrazine	5.506	77	309419	52.74	ug/ml	96
62) 4-Bromophenyl phenyl e...	5.712	248	75343	43.79	ug/ml	95
63) Hexachlorobenzene	5.761	284	82026	41.60	ug/ml	91
64) Pentachlorophenol	5.887	266	45270	31.40	ug/ml	98
65) Pentachloronitrobenzene	5.887	295	14556	42.53	ug/ml#	75
66) Phenanthrene	6.021	178	385999	44.96	ug/ml	100
67) Anthracene	6.054	178	390976	45.19	ug/ml	100
68) Carbazole	6.155	167	371394	45.08	ug/ml	99
69) Di-N-Butyl Phthalate	6.353	149	574185	58.75	ug/ml	100
70) Flouranthene	6.868	202	454271	44.86	ug/ml	98
73) Benzidine	6.971	184	88329	28.85	ug/ml	97
74) Pyrene	7.071	202	470593	43.70	ug/ml	100
75) Butylbenzyl phthalate	7.702	149	271828	58.06	ug/ml	97
76) 3,3'-Dichlorobenzidine	8.413	252	114231	30.44	ug/ml	98
77) Benzo(a)anthracene	8.452	228	485450	45.33	ug/ml	100
78) Chrysene	8.503	228	444536	44.54	ug/ml	100
79) Bis(2-ethylhexyl)phtha...	8.477	149	434442	74.08	ug/ml	100
81) Di-n-octylphthalate	9.608	149	774195	71.47	ug/ml	95
82) Benzo(b)fluoranthene	10.269	252	490621	44.60	ug/ml	98
83) Benzo(k)fluoranthene	10.321	252	464536	48.24	ug/ml	97
84) Benzo(a)pyrene	10.898	252	430815	45.01	ug/ml	98
85) Indeno(1,2,3-cd)pyrene	12.965	276	414401	52.86	ug/ml	95
86) Dibenz(a,h)anthracene	13.004	278	423878	55.65	ug/ml	99
87) Benzo(g,h,i)perylene	13.356	276	370141	50.06	ug/ml	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\D051524\
Data File : D24S136010.D
Acq On : 15 May 2024 9:56 am
Operator : BGL
Sample : B374087-BSD1 Inst : GCMSSV4
Misc :
ALS Vial : 10 Sample Multiplier: 1

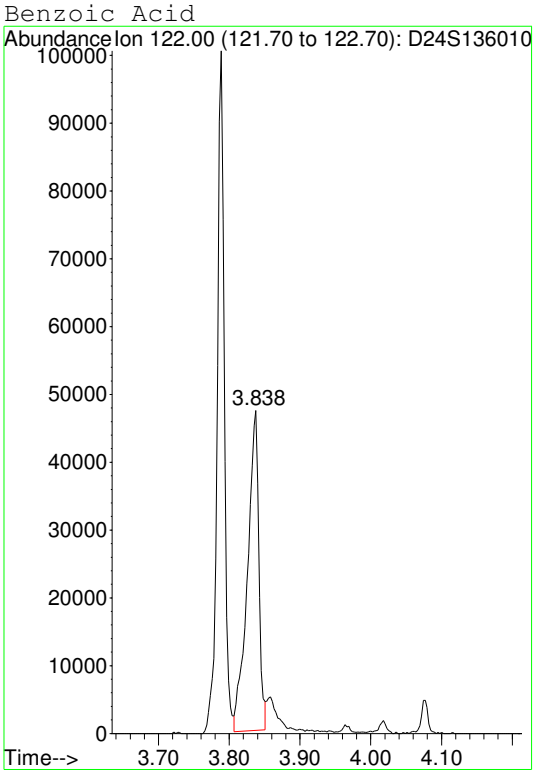
Quant Time: May 17 07:19:35 2024
Quant Method : C:\MSDCHEM\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Wed Apr 24 09:02:55 2024
Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\D051524\
Data File : D24S136010.D
Acq On : 15 May 2024 9:56 am
Operator : BGL
Sample : B374087-BSD1
Misc :

Quant Time : Fri May 17 07:19:35 2024
Quant Method : C:\MSDCHEM\1\METHODS\BND02154.M
QLast Update : Wed Apr 24 09:02:55 2024

Original Integration
Benzoic Acid



Original Int. Results

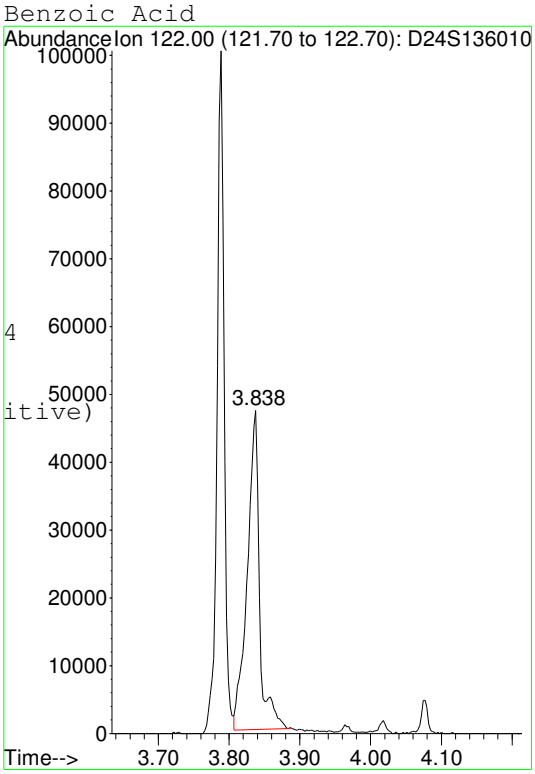
RT : 3.84
Area : 52722
Amount: 29.4393

Manual Int. Results

Fri May 17 07:19:35 2024

MIuser: BGL
Reason: QDel (False Positive)
RT : 3.84
Area : 56685
Amount: 31.6521

Manual Integration
Benzoic Acid



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D051524\
Data File : D24S136010.D
Acq On : 15 May 2024 9:56 am
Operator : BGL
Sample : B374087-BSD1 Inst : GCMSSV4
Misc :
ALS Vial : 10 Sample Multiplier: 1

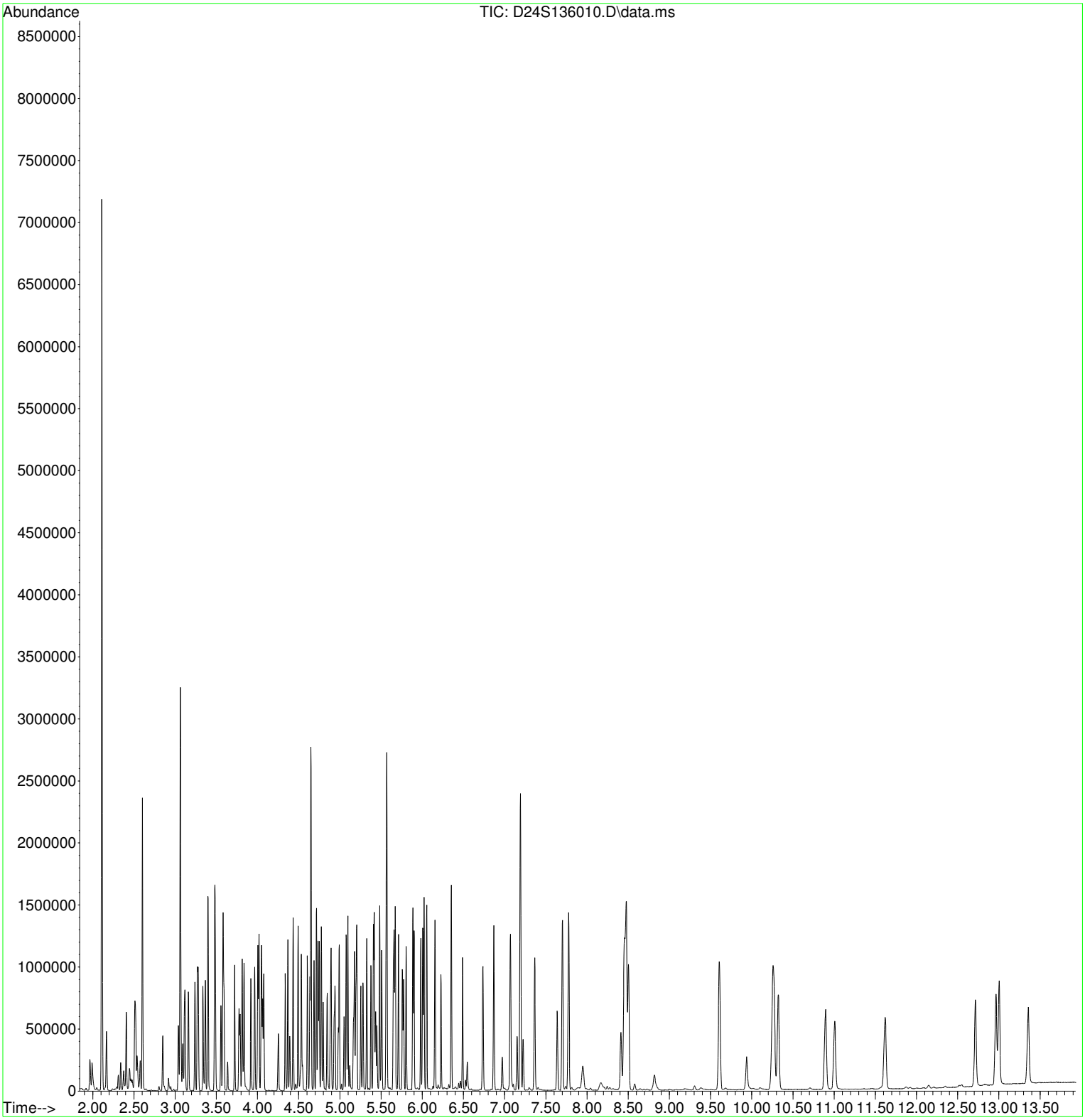
Quant Time: May 16 10:23:29 2024
Quant Method : C:\msdchem\1\METHODS\NCD02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270STD SVMS4 N.C. apx2 extra compds PulseWool
QLast Update : Wed May 08 09:56:00 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-D4...	3.271	152	90207	40.00	ug/ml	-0.03
6) NAPHTHALENE-d8 (2)	4.005	136	339069	40.00	ug/ml	-0.04
10) ACENAPHTHENE-D10 (2)	5.079	164	188039	40.00	ug/ml	-0.01
16) PHENANTHRENE-D10 (2)	6.006	188	328954	40.00	ug/ml	-0.01
17) CHRYSENE-D12 (2)	8.464	240	305578	40.00	ug/ml	-0.06
19) PERYLENE-D12 (2)	11.008	264	322002	40.00	ug/ml	-0.04
System Monitoring Compounds						
2) 2-Fluorophenol	0.000	112	0	0.00	ug/ml	
Spiked Amount 200.000	Range 30 - 130		Recovery =	0.00%#		
3) Phenol-d6	3.063	99	641905	0.00	ug/ml	-0.13
Spiked Amount 200.000	Range 30 - 130		Recovery =	0.00%#		
7) Nitrobenzene-d5	3.583	82	295070	0.00	ug/ml	-0.01
Spiked Amount 100.000	Range 30 - 130		Recovery =	0.00%#		
11) 2-Fluorobiphenyl	4.649	172	550239	0.00	ug/ml	0.02
Spiked Amount 100.000	Range 30 - 130		Recovery =	0.00%#		
12) 2,4,6-Tribromophenol	0.000	330	0	0.00	ug/ml	
Spiked Amount 200.000	Range 30 - 130		Recovery =	0.00%#		
18) Terphenyl-d14	7.192	244	660674	0.00	ug/ml	-0.11
Spiked Amount 100.000	Range 30 - 130		Recovery =	0.00%#		
Target Compounds						Qvalue
4) Benzaldehyde	3.039	106	64974	26.17	ug/ml	98
5) Benzyl Alcohol	3.338	108	85387	41.27	ug/ml	98
8) 2,6-Dichlorophenol	4.051	162	109709	36.70	ug/ml#	87
9) Caprolactam	4.252	113	34399	38.77	ug/ml#	86
13) Biphenyl	4.716	154	303190	39.43	ug/ml	98
14) 2,3,4,6-Tetrachlorophenol	5.279	230	51794	37.79	ug/ml	98
15) Atrazine	5.805	200	84434	45.48	ug/ml	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\D051524\
Data File : D24S136010.D
Acq On : 15 May 2024 9:56 am
Operator : BGL
Sample : B374087-BSD1 Inst : GCMSSV4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 16 10:23:29 2024
Quant Method : C:\msdchem\1\METHODS\NCD02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270STD SVMS4 N.C. apx2 extra compds PulseWool
QLast Update : Wed May 08 09:56:00 2024
Response via : Initial Calibration



1 - FORM I
ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374087-MS1	File ID:	D24S137021.D
Sampled:		Prepared:	05/12/24 07:21	Analyzed:	05/16/24 18:54
Solids:		Preparation:	SW-846 3546	Dilution:	
Initial/Final:	30 g / 1 mL				
Batch:	B374087	Sequence:	S104909	Calibration:	2400207
Instrument:	GCMSSV4				
Column:	1				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
58-90-2	2,3,4,6-Tetrachlorophenol	0.891	0.063	0.92	MS-09, J
1912-24-9	Atrazine	1.10	0.060	0.92	
100-52-7	Benzaldehyde	0.605	0.075	0.47	MS-09
92-52-4	Biphenyl	1.14	0.059	0.92	
105-60-2	Caprolactam	1.03	0.081	0.47	
83-32-9	Acenaphthene	0.990	0.045	0.23	
208-96-8	Acenaphthylene	0.999	0.042	0.23	
98-86-2	Acetophenone	1.09	0.049	0.47	
62-53-3	Aniline	0.240	0.081	0.47	MS-09, J
120-12-7	Anthracene	1.07	0.041	0.23	
56-55-3	Benzo(a)anthracene	1.13	0.038	0.23	
50-32-8	Benzo(a)pyrene	1.05	0.042	0.23	
205-99-2	Benzo(b)fluoranthene	1.07	0.038	0.23	
191-24-2	Benzo(g,h,i)perylene	0.843	0.067	0.23	MS-09
207-08-9	Benzo(k)fluoranthene	1.17	0.042	0.23	
111-91-1	Bis(2-chloroethoxy)methane	1.13	0.050	0.47	
111-44-4	Bis(2-chloroethyl)ether	1.15	0.067	0.47	
108-60-1	Bis(2-chloroisopropyl)ether	1.57	0.30	0.47	V-06
117-81-7	Bis(2-Ethylhexyl)phthalate	1.66	0.055	0.47	V-06
101-55-3	4-Bromophenylphenylether	1.03	0.043	0.47	
85-68-7	Butylbenzylphthalate	1.50	0.052	0.47	
86-74-8	Carbazole	1.09	0.047	0.23	
106-47-8	4-Chloroaniline	0.428	0.083	0.91	MS-09, J
59-50-7	4-Chloro-3-methylphenol	1.11	0.049	0.91	
91-58-7	2-Chloronaphthalene	0.924	0.041	0.47	
95-57-8	2-Chlorophenol	1.01	0.047	0.47	
7005-72-3	4-Chlorophenylphenylether	1.05	0.039	0.47	
218-01-9	Chrysene	1.10	0.042	0.23	
53-70-3	Dibenz(a,h)anthracene	1.04	0.065	0.23	

1 - FORM I
ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374087-MS1	File ID:	D24S137021.D
Sampled:		Prepared:	05/12/24 07:21	Analyzed:	05/16/24 18:54
Solids:		Preparation:	SW-846 3546	Dilution:	
Initial/Final:	30 g / 1 mL				
Batch:	B374087	Sequence:	S104909	Calibration:	2400207
Instrument:	GCMSSV4				
Column:	1				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
132-64-9	Dibenzofuran	1.10	0.042	0.47	
84-74-2	Di-n-butylphthalate	1.22	0.18	0.47	
91-94-1	3,3-Dichlorobenzidine	0.162	0.10	0.23	MS-09, J
120-83-2	2,4-Dichlorophenol	0.964	0.044	0.47	
84-66-2	Diethylphthalate	1.15	0.045	0.47	
105-67-9	2,4-Dimethylphenol	0.360	0.11	0.47	MS-09, J
131-11-3	Dimethylphthalate	1.12	0.044	0.47	
534-52-1	4,6-Dinitro-2-methylphenol	1.04	0.37	0.47	
51-28-5	2,4-Dinitrophenol	0.860	0.36	0.91	J
121-14-2	2,4-Dinitrotoluene	1.19	0.047	0.47	
606-20-2	2,6-Dinitrotoluene	1.22	0.049	0.47	
117-84-0	Di-n-octylphthalate	1.53	0.066	0.47	V-06
206-44-0	Fluoranthene	0.988	0.038	0.23	MS-09
86-73-7	Fluorene	1.06	0.042	0.23	
118-74-1	Hexachlorobenzene	0.982	0.045	0.47	
87-68-3	Hexachlorobutadiene	0.922	0.042	0.47	
77-47-4	Hexachlorocyclopentadiene	0.00506	0.0	0.47	MS-09, V-05, J
67-72-1	Hexachloroethane	0.753	0.043	0.47	MS-09
193-39-5	Indeno(1,2,3-cd)pyrene	0.932	0.076	0.23	
78-59-1	Isophorone	1.15	0.050	0.47	
90-12-0	1-Methylnaphthalene	1.05	0.047	0.23	
91-57-6	2-Methylnaphthalene	1.04	0.040	0.23	
95-48-7	2-Methylphenol	0.916	0.063	0.47	
108-39-4/106-44-5	3/4-Methylphenol	1.04	0.062	0.47	
91-20-3	Naphthalene	1.04	0.082	0.23	
88-74-4	2-Nitroaniline	1.38	0.057	0.47	
99-09-2	3-Nitroaniline	1.53	0.097	0.47	
100-01-6	4-Nitroaniline	1.04	0.052	0.47	
98-95-3	Nitrobenzene	1.08	0.059	0.47	

1 - FORM I
ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374087-MS1	File ID:	D24S137021.D
Sampled:		Prepared:	05/12/24 07:21	Analyzed:	05/16/24 18:54
Solids:		Preparation:	SW-846 3546	Dilution:	
Initial/Final:	30 g / 1 mL				
Batch:	B374087	Sequence:	S104909	Calibration:	2400207
Instrument:	GCMSSV4				
Column:	1				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
88-75-5	2-Nitrophenol	1.10	0.046	0.47	
100-02-7	4-Nitrophenol	1.28	0.12	0.91	
86-30-6	N-Nitrosodiphenylamine/Diphenylamine	1.08	0.059	0.47	
621-64-7	N-Nitrosodi-n-propylamine	1.18	0.065	0.47	
87-86-5	Pentachlorophenol	0.624	0.17	0.47	MS-09, V-05
85-01-8	Phenanthrene	1.10	0.042	0.23	
108-95-2	Phenol	1.05	0.059	0.47	
129-00-0	Pyrene	1.39	0.049	0.23	
110-86-1	Pyridine	0.548	0.055	0.47	MS-09
95-94-3	1,2,4,5-Tetrachlorobenzene	0.967	0.046	0.47	
95-95-4	2,4,5-Trichlorophenol	1.05	0.048	0.47	
88-06-2	2,4,6-Trichlorophenol	0.957	0.044	0.47	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D051624\
Data File : D24S137021.D
Acq On : 16 May 2024 6:54 pm
Operator : BGL
Sample : B374087-MS1 Inst : GCMSSV4
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 16 19:06:59 2024
Quant Method : C:\MSDCHEM\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Wed Apr 24 09:02:55 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-D4	3.283	152	82794	40.00	ug/ml	-0.03
19) NAPHTHALENE-d8	4.014	136	308500	40.00	ug/ml	-0.03
35) ACENAPHTHENE-D10	5.088	164	175245	40.00	ug/ml	-0.03
58) PHENANTHRENE-D10	6.017	188	308068	40.00	ug/ml	-0.03
71) CHRYSENE-D12	8.489	240	190457	40.00	ug/ml	-0.05
80) PERYLENE-D12	11.043	264	176194	40.00	ug/ml	-0.06
System Monitoring Compounds						
2) 2-Fluorophenol	2.616	112	189571	93.99	ug/ml	-0.03
Spiked Amount 200.000	Range 30 - 130		Recovery = 46.99%			
3) Phenol-d6	3.077	99	306360	95.76	ug/ml	-0.03
Spiked Amount 200.000	Range 30 - 130		Recovery = 47.88%			
20) Nitrobenzene-d5	3.592	82	146942	51.42	ug/ml	-0.03
Spiked Amount 100.000	Range 30 - 130		Recovery = 51.42%			
36) 2-Fluorobiphenyl	4.660	172	271948	50.58	ug/ml	-0.03
Spiked Amount 100.000	Range 30 - 130		Recovery = 50.58%			
37) 2,4,6-Tribromophenol	5.582	330	73366	80.32	ug/ml	-0.03
Spiked Amount 200.000	Range 30 - 130		Recovery = 40.16%			
72) Terphenyl-d14	7.207	244	263149	68.47	ug/ml	-0.04
Spiked Amount 100.000	Range 30 - 130		Recovery = 68.47%			
Target Compounds						Qvalue
4) N-Nitrosodimethylamine	1.972	42	36485	21.36	ug/ml	93
5) Pyridine	2.003	79	34942	11.92	ug/ml	87
6) Aniline	3.105	66	7895	5.21	ug/ml#	56
7) Phenol	3.084	94	82383	22.94	ug/ml	89
8) Bis(2-chloroethyl)ether	3.123	63	46898	25.06	ug/ml	96
9) 2-Chlorophenol	3.175	128	61208	21.89	ug/ml	95
10) 1,3-Dichlorobenzene	3.252	146	61088	19.03	ug/ml	98
11) 1,4-Dichlorobenzene	3.290	146	63228	19.67	ug/ml	96
12) 1,2-Dichlorobenzene	3.378	146	59812	19.99	ug/ml	97
13) 2- METHYLPHENOL	3.409	108	48489	19.93	ug/ml#	83
14) Bis(2-Chloroisopropyl)...	3.412	45	84773	34.23	ug/ml#	70
15) Acetophenone	3.499	105	90670	23.66	ug/ml#	75
16) 3/4- METHYLPHENOL	3.494	107	62233	22.59	ug/ml#	38
17) N-Nitroso-Di-N-Propyla...	3.489	70	52230	25.59	ug/ml	90
18) Hexachloroethane	3.566	117	19717	16.37	ug/ml	93
21) NITROBENZENE	3.602	77	73865	23.45	ug/ml	97
22) Isophorone	3.733	82	131568	25.02	ug/ml	99
23) 2-Nitrophenol	3.787	139	34308	23.96	ug/ml	95
24) 2,4-Dimethylphenol	3.800	122	20338	7.84	ug/ml	97
25) Bis(2-Chloroethoxy)met...	3.849	93	72715	24.58	ug/ml	95
26) Benzoic Acid	3.849	122	37843	23.22	ug/ml	91
27) 2,4-Dichlorophenol	3.932	162	53578	20.96	ug/ml	96
28) 1,2,4-Trichlorobenzene	3.975	180	56091	19.88	ug/ml	99
29) Naphthalene	4.029	128	173163	22.55	ug/ml	100
30) 4-Chloroaniline	4.055	127	29219	9.30	ug/ml	91
31) Hexachlorobutadiene	4.086	225	32430	20.06	ug/ml	98
32) 4-Chloro-3-Methylphenol	4.349	107	59939	24.13	ug/ml	95
33) 2-MethylNaphthalene	4.444	142	119702	22.73	ug/ml	98
34) 1-Methylnaphthalene	4.506	142	110334	22.79	ug/ml	97
38) Hexachlorocyclopentadiene	4.532	237	196	0.11	ug/ml#	88
39) 1,2,4,5-Tetrachloroben...	4.544	216	60176	21.04	ug/ml	98
40) 2,4,6-Trichlorophenol	4.616	196	38786	20.82	ug/ml	99
41) 2,4,5-Trichlorophenol	4.647	196	44027	22.81	ug/ml	99
42) 2-ChloroNaphthalene	4.745	162	123569	20.09	ug/ml	96

Data Path : C:\msdchem\1\DATA\D051624\
Data File : D24S137021.D
Acq On : 16 May 2024 6:54 pm
Operator : BGL
Sample : B374087-MS1 Inst : GCMSSV4
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 16 19:06:59 2024
Quant Method : C:\MSDCHEM\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Wed Apr 24 09:02:55 2024
Response via : Initial Calibration

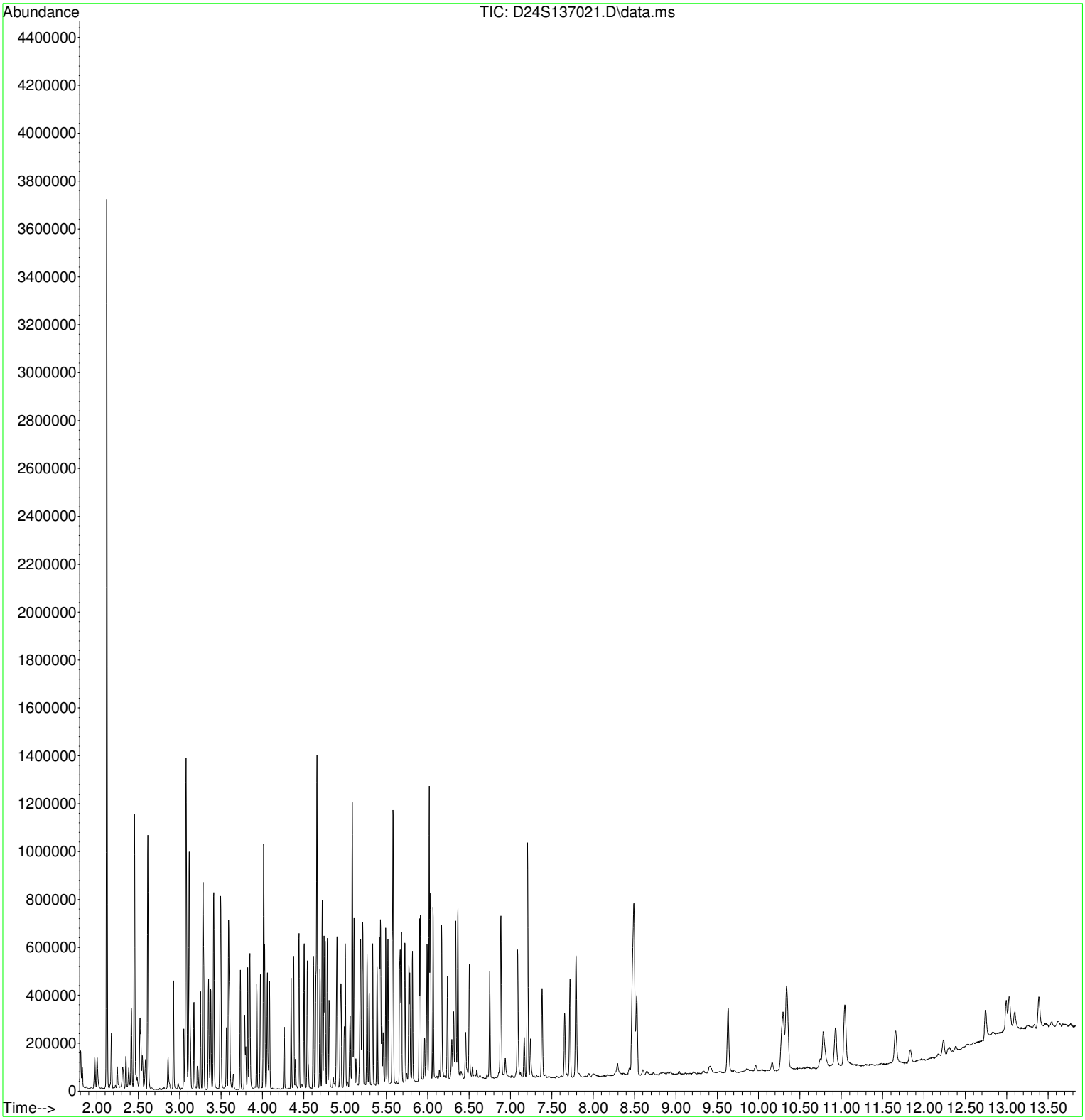
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) 2-Nitroaniline	4.807	65	44612	30.09	ug/ml	92
44) 1,1-Biphenyl	4.725	154	150127	24.88	ug/ml	98
45) DIMETHYL PHTHALATE	4.902	163	139940	24.33	ug/ml	99
46) 2,6-DinitroToluene	4.951	165	31839	26.62	ug/ml#	81
47) Acenaphthylene	5.003	152	172055	21.74	ug/ml	98
48) 3-Nitroaniline	5.062	138	41764	33.29	ug/ml#	59
49) Acenaphthene	5.108	154	105152	21.54	ug/ml	94
50) 2,4-Dinitrophenol	5.134	184	9154	18.70	ug/ml#	1
51) 4-Nitrophenol	5.180	109	25329	27.95	ug/ml	91
52) Dibenzofuran	5.216	168	166828	23.96	ug/ml	96
53) 2,4-Dinitrotoluene	5.206	165	43486	25.97	ug/ml#	70
54) DIETHYL PHTHALATE	5.335	149	140397	24.92	ug/ml	99
55) 4-Chlorophenyl phenyl ...	5.417	204	65339	22.88	ug/ml	95
56) Flourene	5.428	166	134166	23.13	ug/ml	100
57) 4-Nitroaniline	5.443	138	30872	22.55	ug/ml	93
59) 4,6-Dinitro-2-Methylph...	5.461	198	16180	22.60	ug/ml	86
60) N-Nitrosodiphenylamine	5.492	169	102686	23.56	ug/ml	98
61) 1,2-Diphenylhydrazine	5.518	77	150457	27.38	ug/ml	94
62) 4-Bromophenyl phenyl e...	5.724	248	36261	22.51	ug/ml	94
63) Hexachlorobenzene	5.770	284	39438	21.36	ug/ml	87
64) Pentachlorophenol	5.899	266	18318	13.57	ug/ml	99
65) Pentachloronitrobenzene	5.899	295	6779	21.15	ug/ml#	72
66) Phenanthrene	6.033	178	191652	23.84	ug/ml	100
67) Anthracene	6.064	178	188322	23.24	ug/ml	99
68) Carbazole	6.167	167	183565	23.79	ug/ml	100
69) Di-N-Butyl Phthalate	6.365	149	242038	26.44	ug/ml	99
70) Flouranthene	6.885	202	203901	21.50	ug/ml	98
73) Benzidine	6.985	184	24	0.01	ug/ml#	1
74) Pyrene	7.086	202	202381	30.15	ug/ml	100
75) Butylbenzyl phthalate	7.719	149	95020	32.56	ug/ml	96
76) 3,3'-Dichlorobenzidine	8.437	252	8238	3.52	ug/ml	98
77) Benzo(a)anthracene	8.473	228	163631	24.52	ug/ml	99
78) Chrysene	8.528	228	149204	23.99	ug/ml	100
79) Bis(2-ethylhexyl)phtha...	8.499	149	131688	36.03	ug/ml	99
81) Di-n-octylphthalate	9.632	149	197163	33.26	ug/ml	92
82) Benzo(b)fluoranthene	10.302	252	140772	23.38	ug/ml	99
83) Benzo(k)fluoranthene	10.351	252	134288	25.49	ug/ml	98
84) Benzo(a)pyrene	10.930	252	119456	22.81	ug/ml	99
85) Indeno(1,2,3-cd)pyrene	12.995	276	86974	20.28	ug/ml	98
86) Dibenz(a,h)anthracene	13.033	278	94542	22.68	ug/ml	95
87) Benzo(g,h,i)perylene	13.389	276	74189	18.34	ug/ml	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\D051624\
Data File : D24S137021.D
Acq On : 16 May 2024 6:54 pm
Operator : BGL
Sample : B374087-MS1 Inst : GCMSSV4
Misc :
ALS Vial : 21 Sample Multiplier: 1

714

Quant Time: May 16 19:06:59 2024
Quant Method : C:\MSDCHEM\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Wed Apr 24 09:02:55 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D051624\
Data File : D24S137021.D
Acq On : 16 May 2024 6:54 pm
Operator : BGL
Sample : B374087-MS1 Inst : GCMSSV4
Misc :
ALS Vial : 21 Sample Multiplier: 1

715

Quant Time: May 23 10:25:42 2024
Quant Method : C:\msdchem\1\METHODS\NCD02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270STD SVMS4 N.C. apx2 extra compds PulseWool
QLast Update : Thu May 23 10:19:14 2024
Response via : Initial Calibration

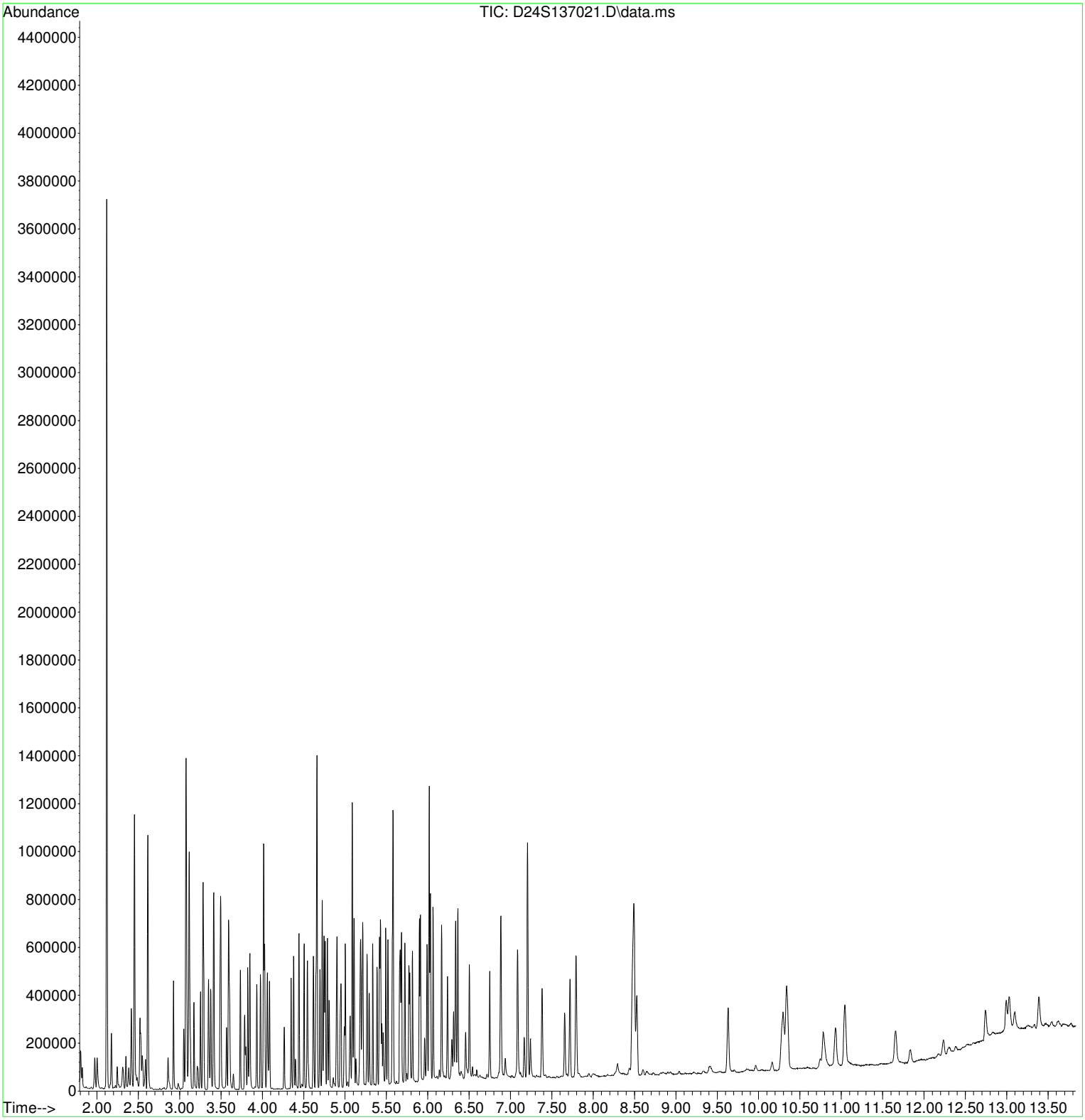
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-D4...	3.283	152	82794	40.00	ug/ml	-0.02
6) NAPHTHALENE-d8 (2)	4.014	136	308500	40.00	ug/ml	-0.03
10) ACENAPHTHENE-D10 (2)	5.088	164	175245	40.00	ug/ml	0.00
16) PHENANTHRENE-D10 (2)	6.017	188	308068	40.00	ug/ml	0.00
17) CHRYSENE-D12 (2)	8.489	240	190457	40.00	ug/ml	-0.04
19) PERYLENE-D12 (2)	11.043	264	176194	40.00	ug/ml	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	2.616	112	189571	0.00	ug/ml	-0.12
Spiked Amount 200.000	Range 30 - 130		Recovery =	0.00%#		
3) Phenol-d6	3.077	99	306360	0.00	ug/ml	-0.11
Spiked Amount 200.000	Range 30 - 130		Recovery =	0.00%#		
7) Nitrobenzene-d5	3.592	82	146656	0.00	ug/ml	0.00
Spiked Amount 100.000	Range 30 - 130		Recovery =	0.00%#		
11) 2-Fluorobiphenyl	4.660	172	271948	0.00	ug/ml	0.03
Spiked Amount 100.000	Range 30 - 130		Recovery =	0.00%#		
12) 2,4,6-Tribromophenol	0.000	330	0	0.00	ug/ml	
Spiked Amount 200.000	Range 30 - 130		Recovery =	0.00%#		
18) Terphenyl-d14	7.207	244	263149	0.00	ug/ml	-0.09
Spiked Amount 100.000	Range 30 - 130		Recovery =	0.00%#		
Target Compounds						Qvalue
4) Benzaldehyde	3.051	106	29986	13.16	ug/ml	97
5) Benzyl Alcohol	3.350	108	41457	21.83	ug/ml	98
8) 2,6-Dichlorophenol	4.060	162	48197	17.72	ug/ml	88
9) Caprolactam	4.264	113	18164	22.50	ug/ml#	87
13) Biphenyl	4.725	154	150127	20.95	ug/ml	98
14) 2,3,4,6-Tetrachlorophenol	5.294	230	24768	19.39	ug/ml	97
15) Atrazine	5.816	200	41215	23.82	ug/ml	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\D051624\
Data File : D24S137021.D
Acq On : 16 May 2024 6:54 pm
Operator : BGL
Sample : B374087-MS1 Inst : GCMSSV4
Misc :
ALS Vial : 21 Sample Multiplier: 1

716

Quant Time: May 23 10:25:42 2024
Quant Method : C:\msdchem\1\METHODS\NCD02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270STD SVMS4 N.C. apx2 extra compds PulseWool
QLast Update : Thu May 23 10:19:14 2024
Response via : Initial Calibration



1 - FORM I
ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374087-MSD1	File ID:	D24S137022.D
Sampled:		Prepared:	05/12/24 07:21	Analyzed:	05/16/24 19:14
Solids:		Preparation:	SW-846 3546	Dilution:	
Initial/Final:	30 g / 1 mL				
Batch:	B374087	Sequence:	S104909	Calibration:	2400207
Instrument:	GCMSSV4				
Column:	1				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
58-90-2	2,3,4,6-Tetrachlorophenol	0.845	0.063	0.92	MS-09, J
1912-24-9	Atrazine	1.04	0.060	0.92	
100-52-7	Benzaldehyde	0.633	0.075	0.47	MS-09
92-52-4	Biphenyl	1.10	0.059	0.92	
105-60-2	Caprolactam	0.973	0.081	0.47	
83-32-9	Acenaphthene	0.949	0.045	0.23	
208-96-8	Acenaphthylene	0.958	0.042	0.23	
98-86-2	Acetophenone	1.05	0.049	0.47	
62-53-3	Aniline	0.234	0.081	0.47	MS-09, J
120-12-7	Anthracene	1.01	0.041	0.23	
56-55-3	Benzo(a)anthracene	1.05	0.038	0.23	
50-32-8	Benzo(a)pyrene	0.959	0.042	0.23	
205-99-2	Benzo(b)fluoranthene	0.968	0.038	0.23	
191-24-2	Benzo(g,h,i)perylene	0.764	0.067	0.23	MS-09
207-08-9	Benzo(k)fluoranthene	1.12	0.042	0.23	
111-91-1	Bis(2-chloroethoxy)methane	1.09	0.050	0.47	
111-44-4	Bis(2-chloroethyl)ether	1.08	0.067	0.47	
108-60-1	Bis(2-chloroisopropyl)ether	1.43	0.30	0.47	V-06
117-81-7	Bis(2-Ethylhexyl)phthalate	1.53	0.055	0.47	V-06
101-55-3	4-Bromophenylphenylether	1.02	0.043	0.47	
85-68-7	Butylbenzylphthalate	1.38	0.052	0.47	
86-74-8	Carbazole	1.02	0.047	0.23	
106-47-8	4-Chloroaniline	0.436	0.083	0.91	MS-09, J
59-50-7	4-Chloro-3-methylphenol	1.05	0.049	0.91	
91-58-7	2-Chloronaphthalene	0.899	0.041	0.47	MS-22
95-57-8	2-Chlorophenol	0.992	0.047	0.47	
7005-72-3	4-Chlorophenylphenylether	1.03	0.039	0.47	
218-01-9	Chrysene	1.04	0.042	0.23	
53-70-3	Dibenz(a,h)anthracene	0.889	0.065	0.23	MS-22

1 - FORM I
ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374087-MSD1	File ID:	D24S137022.D
Sampled:		Prepared:	05/12/24 07:21	Analyzed:	05/16/24 19:14
Solids:		Preparation:	SW-846 3546	Dilution:	
Initial/Final:	30 g / 1 mL				
Batch:	B374087	Sequence:	S104909	Calibration:	2400207
Instrument:	GCMSSV4				
Column:	1				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
132-64-9	Dibenzofuran	1.05	0.042	0.47	
84-74-2	Di-n-butylphthalate	1.12	0.18	0.47	
91-94-1	3,3-Dichlorobenzidine	0.176	0.10	0.23	MS-09, J
120-83-2	2,4-Dichlorophenol	0.943	0.044	0.47	
84-66-2	Diethylphthalate	1.08	0.045	0.47	
105-67-9	2,4-Dimethylphenol	0.267	0.11	0.47	MS-09, J
131-11-3	Dimethylphthalate	1.09	0.044	0.47	
534-52-1	4,6-Dinitro-2-methylphenol	0.984	0.37	0.47	
51-28-5	2,4-Dinitrophenol	0.841	0.36	0.91	J
121-14-2	2,4-Dinitrotoluene	1.15	0.047	0.47	
606-20-2	2,6-Dinitrotoluene	1.19	0.049	0.47	
117-84-0	Di-n-octylphthalate	1.34	0.066	0.47	V-06
206-44-0	Fluoranthene	0.952	0.038	0.23	MS-09
86-73-7	Fluorene	1.01	0.042	0.23	
118-74-1	Hexachlorobenzene	0.970	0.045	0.47	
87-68-3	Hexachlorobutadiene	0.971	0.042	0.47	
77-47-4	Hexachlorocyclopentadiene	0.00965	0.0	0.47	MS-09, V-05, J
67-72-1	Hexachloroethane	0.773	0.043	0.47	MS-09
193-39-5	Indeno(1,2,3-cd)pyrene	0.825	0.076	0.23	MS-22
78-59-1	Isophorone	1.09	0.050	0.47	
90-12-0	1-Methylnaphthalene	1.03	0.047	0.23	
91-57-6	2-Methylnaphthalene	1.03	0.040	0.23	
95-48-7	2-Methylphenol	0.848	0.063	0.47	
108-39-4/106-44-5	3/4-Methylphenol	0.954	0.062	0.47	
91-20-3	Naphthalene	1.03	0.082	0.23	
88-74-4	2-Nitroaniline	1.21	0.057	0.47	
99-09-2	3-Nitroaniline	1.38	0.097	0.47	
100-01-6	4-Nitroaniline	1.02	0.052	0.47	
98-95-3	Nitrobenzene	1.02	0.059	0.47	

1 - FORM I
ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374087-MSD1	File ID:	D24S137022.D
Sampled:		Prepared:	05/12/24 07:21	Analyzed:	05/16/24 19:14
Solids:		Preparation:	SW-846 3546	Dilution:	
Initial/Final:	30 g / 1 mL				
Batch:	B374087	Sequence:	S104909	Calibration:	2400207
Instrument:	GCMSSV4				
Column:	1				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
88-75-5	2-Nitrophenol	1.09	0.046	0.47	
100-02-7	4-Nitrophenol	1.20	0.12	0.91	
86-30-6	N-Nitrosodiphenylamine/Diphenylamine	1.01	0.059	0.47	
621-64-7	N-Nitrosodi-n-propylamine	1.11	0.065	0.47	
87-86-5	Pentachlorophenol	0.599	0.17	0.47	MS-09, V-05
85-01-8	Phenanthrene	1.04	0.042	0.23	
108-95-2	Phenol	1.00	0.059	0.47	
129-00-0	Pyrene	1.33	0.049	0.23	
110-86-1	Pyridine	0.573	0.055	0.47	MS-09
95-94-3	1,2,4,5-Tetrachlorobenzene	0.968	0.046	0.47	
95-95-4	2,4,5-Trichlorophenol	1.02	0.048	0.47	
88-06-2	2,4,6-Trichlorophenol	0.924	0.044	0.47	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D051624\
Data File : D24S137022.D
Acq On : 16 May 2024 7:14 pm
Operator : BGL
Sample : B374087-MSD1 Inst : GCMSSV4
Misc :
ALS Vial : 22 Sample Multiplier: 1

720

Quant Time: May 16 19:26:56 2024
Quant Method : C:\MSDCHEM\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Wed Apr 24 09:02:55 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-D4	3.283	152	101526	40.00	ug/ml	-0.03
19) NAPHTHALENE-d8	4.014	136	375096	40.00	ug/ml	-0.03
35) ACENAPHTHENE-D10	5.088	164	214406	40.00	ug/ml	-0.03
58) PHENANTHRENE-D10	6.017	188	378250	40.00	ug/ml	-0.03
71) CHRYSENE-D12	8.486	240	233956	40.00	ug/ml	-0.05
80) PERYLENE-D12	11.043	264	222511	40.00	ug/ml	-0.06
System Monitoring Compounds						
2) 2-Fluorophenol	2.616	112	226082	91.41	ug/ml	-0.03
Spiked Amount 200.000	Range 30 - 130		Recovery = 45.70%			
3) Phenol-d6	3.077	99	350989	89.47	ug/ml	-0.03
Spiked Amount 200.000	Range 30 - 130		Recovery = 44.73%			
20) Nitrobenzene-d5	3.592	82	169316	48.73	ug/ml	-0.03
Spiked Amount 100.000	Range 30 - 130		Recovery = 48.73%			
36) 2-Fluorobiphenyl	4.660	172	319336	48.55	ug/ml	-0.03
Spiked Amount 100.000	Range 30 - 130		Recovery = 48.55%			
37) 2,4,6-Tribromophenol	5.582	330	84994	76.05	ug/ml	-0.03
Spiked Amount 200.000	Range 30 - 130		Recovery = 38.02%			
72) Terphenyl-d14	7.207	244	311199	65.92	ug/ml	-0.04
Spiked Amount 100.000	Range 30 - 130		Recovery = 65.92%			
Target Compounds						Qvalue
4) N-Nitrosodimethylamine	1.975	42	42807	20.44	ug/ml	97
5) Pyridine	2.003	79	44770	12.46	ug/ml	94
6) Aniline	3.105	66	9437	5.08	ug/ml#	54
7) Phenol	3.084	94	95865	21.77	ug/ml	91
8) Bis(2-chloroethyl)ether	3.121	63	54104	23.58	ug/ml	98
9) 2-Chlorophenol	3.172	128	73947	21.57	ug/ml	99
10) 1,3-Dichlorobenzene	3.252	146	79006	20.07	ug/ml	99
11) 1,4-Dichlorobenzene	3.290	146	80533	20.43	ug/ml	97
12) 1,2-Dichlorobenzene	3.378	146	77438	21.11	ug/ml	99
13) 2- METHYLPHENOL	3.409	108	55033	18.45	ug/ml#	86
14) Bis(2-Chloroisopropyl)...	3.411	45	94627	31.15	ug/ml#	73
15) Acetophenone	3.499	105	107797	22.94	ug/ml#	78
16) 3/4- METHYLPHENOL	3.494	107	70130	20.76	ug/ml#	35
17) N-Nitroso-Di-N-Propyla...	3.489	70	60204	24.05	ug/ml	87
18) Hexachloroethane	3.566	117	24827	16.81	ug/ml	99
21) NITROBENZENE	3.605	77	84889	22.17	ug/ml	95
22) Isophorone	3.733	82	151588	23.71	ug/ml	99
23) 2-Nitrophenol	3.787	139	41253	23.69	ug/ml	89
24) 2,4-Dimethylphenol	3.800	122	18295	5.80	ug/ml	95
25) Bis(2-Chloroethoxy)met...	3.847	93	85066	23.65	ug/ml	94
26) Benzoic Acid	3.849	122	43880	22.15	ug/ml	94
27) 2,4-Dichlorophenol	3.932	162	63779	20.52	ug/ml	98
28) 1,2,4-Trichlorobenzene	3.975	180	70477	20.55	ug/ml	99
29) Naphthalene	4.027	128	209793	22.47	ug/ml	100
30) 4-Chloroaniline	4.058	127	36259	9.49	ug/ml	96
31) Hexachlorobutadiene	4.086	225	41527	21.12	ug/ml	100
32) 4-Chloro-3-Methylphenol	4.349	107	68735	22.75	ug/ml	97
33) 2-MethylNaphthalene	4.444	142	143220	22.37	ug/ml	97
34) 1-Methylnaphthalene	4.506	142	131513	22.34	ug/ml	97
38) Hexachlorocyclopentadiene	4.529	237	434	0.21	ug/ml#	93
39) 1,2,4,5-Tetrachloroben...	4.544	216	73678	21.06	ug/ml	97
40) 2,4,6-Trichlorophenol	4.616	196	45823	20.10	ug/ml	98
41) 2,4,5-Trichlorophenol	4.647	196	52538	22.25	ug/ml	99
42) 2-ChloroNaphthalene	4.745	162	147058	19.55	ug/ml	97

Data Path : C:\msdchem\1\DATA\D051624\
Data File : D24S137022.D
Acq On : 16 May 2024 7:14 pm
Operator : BGL
Sample : B374087-MSD1 Inst : GCMSSV4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 16 19:26:56 2024
Quant Method : C:\MSDCHEM\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Wed Apr 24 09:02:55 2024
Response via : Initial Calibration

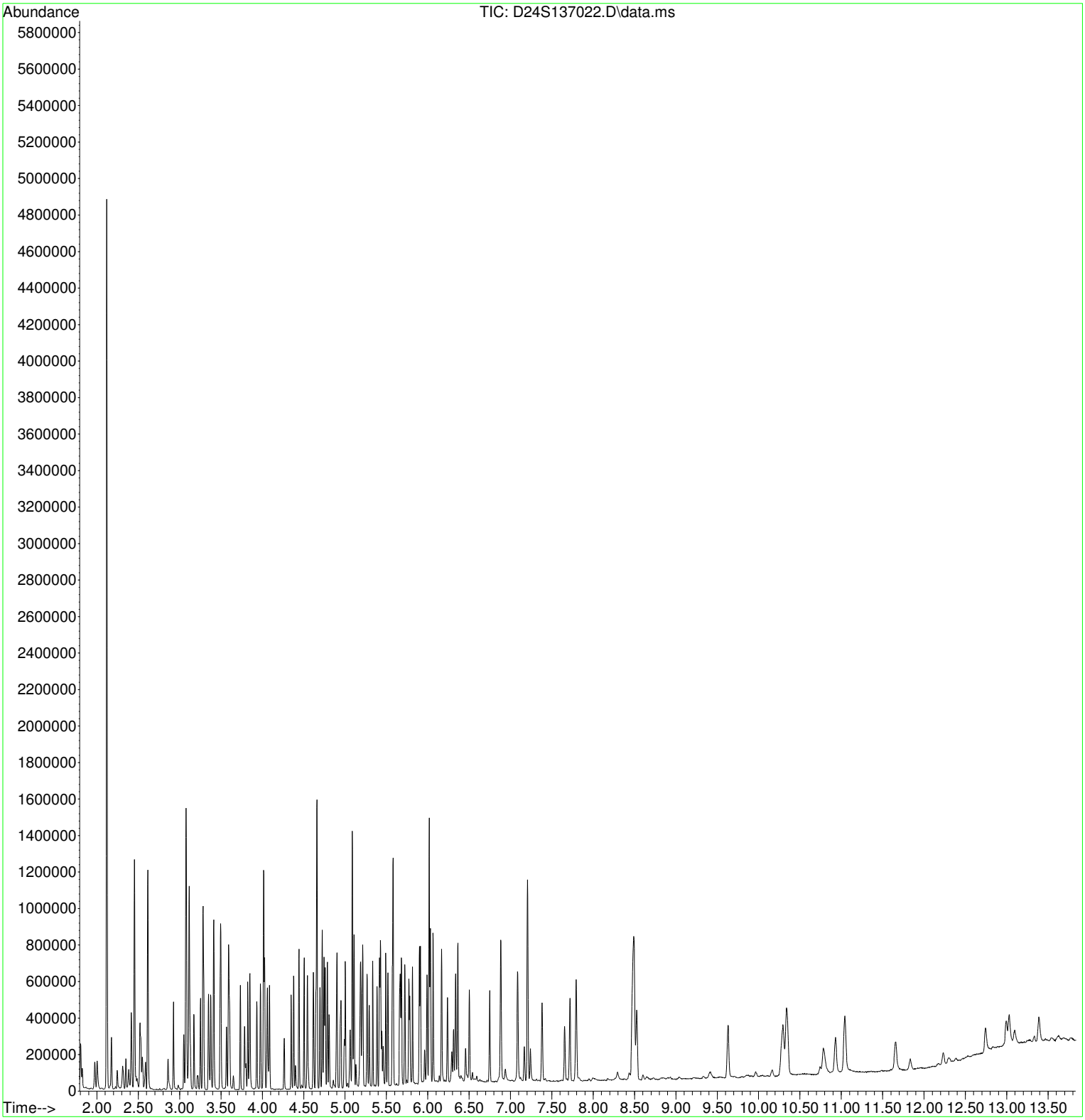
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) 2-Nitroaniline	4.807	65	47575	26.23	ug/ml	99
44) 1,1-Biphenyl	4.725	154	176839	23.96	ug/ml	99
45) DIMETHYL PHTHALATE	4.902	163	166248	23.63	ug/ml	100
46) 2,6-DinitroToluene	4.951	165	37905	25.90	ug/ml	85
47) Acenaphthylene	5.003	152	201826	20.84	ug/ml	98
48) 3-Nitroaniline	5.062	138	46024	29.99	ug/ml#	62
49) Acenaphthene	5.108	154	123269	20.64	ug/ml	94
50) 2,4-Dinitrophenol	5.131	184	10844	18.30	ug/ml#	1
51) 4-Nitrophenol	5.180	109	28995	26.15	ug/ml	89
52) Dibenzofuran	5.214	168	195104	22.90	ug/ml	98
53) 2,4-Dinitrotoluene	5.206	165	51365	25.07	ug/ml#	83
54) DIETHYL PHTHALATE	5.335	149	161376	23.41	ug/ml	100
55) 4-Chlorophenyl phenyl ...	5.417	204	78270	22.40	ug/ml	98
56) Flourene	5.428	166	155699	21.94	ug/ml	99
57) 4-Nitroaniline	5.443	138	36988	22.08	ug/ml	88
59) 4,6-Dinitro-2-Methylph...	5.461	198	18384	21.41	ug/ml	91
60) N-Nitrosodiphenylamine	5.492	169	117132	21.89	ug/ml	98
61) 1,2-Diphenylhydrazine	5.518	77	162341	24.06	ug/ml	98
62) 4-Bromophenyl phenyl e...	5.724	248	44041	22.26	ug/ml	97
63) Hexachlorobenzene	5.770	284	47823	21.09	ug/ml	92
64) Pentachlorophenol	5.899	266	21616	13.04	ug/ml	98
65) Pentachloronitrobenzene	5.899	295	8131	20.66	ug/ml#	75
66) Phenanthrene	6.033	178	222950	22.58	ug/ml	99
67) Anthracene	6.063	178	219554	22.07	ug/ml	99
68) Carbazole	6.166	167	210940	22.27	ug/ml	100
69) Di-N-Butyl Phthalate	6.365	149	273646	24.35	ug/ml	99
70) Flouranthene	6.882	202	241118	20.71	ug/ml	99
73) Benzidine	6.978	184	50	0.02	ug/ml#	1
74) Pyrene	7.088	202	238131	28.88	ug/ml	100
75) Butylbenzyl phthalate	7.719	149	107748	30.06	ug/ml	98
76) 3,3'-Dichlorobenzidine	8.435	252	10967	3.82	ug/ml	99
77) Benzo(a)anthracene	8.471	228	187409	22.86	ug/ml	99
78) Chrysene	8.525	228	173074	22.65	ug/ml	100
79) Bis(2-ethylhexyl)phtha...	8.499	149	149758	33.36	ug/ml	99
81) Di-n-octylphthalate	9.630	149	217805	29.10	ug/ml	97
82) Benzo(b)fluoranthene	10.296	252	160089	21.06	ug/ml	98
83) Benzo(k)fluoranthene	10.348	252	162117	24.36	ug/ml	99
84) Benzo(a)pyrene	10.930	252	138007	20.87	ug/ml	99
85) Indeno(1,2,3-cd)pyrene	12.995	276	97233	17.95	ug/ml	99
86) Dibenz(a,h)anthracene	13.031	278	101730	19.33	ug/ml	97
87) Benzo(g,h,i)perylene	13.391	276	84938	16.62	ug/ml	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\D051624\
Data File : D24S137022.D
Acq On : 16 May 2024 7:14 pm
Operator : BGL
Sample : B374087-MSD1 Inst : GCMSSV4
Misc :
ALS Vial : 22 Sample Multiplier: 1

722

Quant Time: May 16 19:26:56 2024
Quant Method : C:\MSDCHEM\1\METHODS\BND02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270/625 SVMS4 (d)C+D (split /WOOL
QLast Update : Wed Apr 24 09:02:55 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\D051624\
Data File : D24S137022.D
Acq On : 16 May 2024 7:14 pm
Operator : BGL
Sample : B374087-MSD1 Inst : GCMSSV4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 23 10:25:44 2024
Quant Method : C:\msdchem\1\METHODS\NCD02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270STD SVMS4 N.C. apx2 extra compds PulseWool
QLast Update : Thu May 23 10:19:14 2024
Response via : Initial Calibration

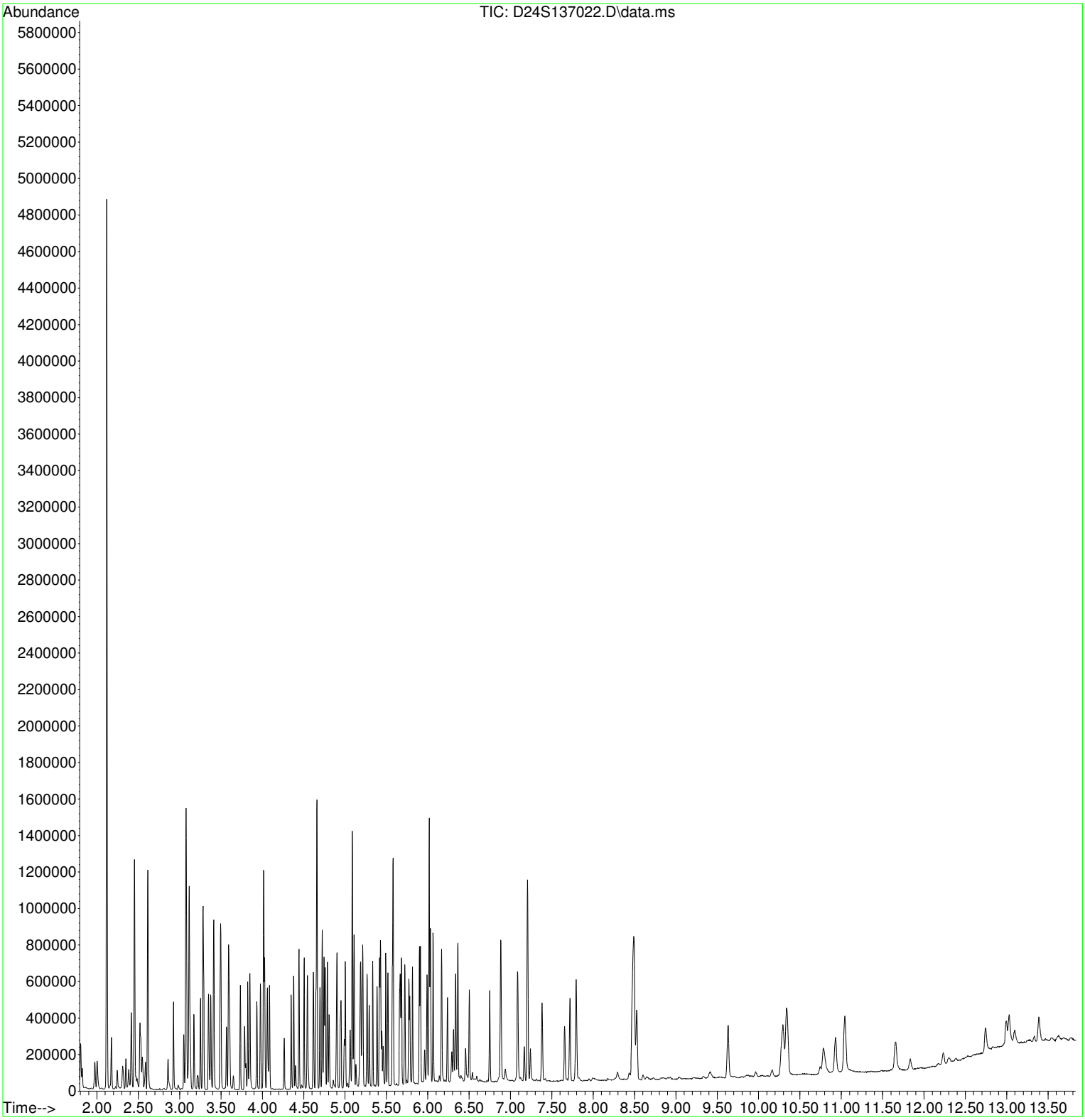
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-D4...	3.283	152	101526	40.00	ug/ml	-0.02
6) NAPHTHALENE-d8 (2)	4.014	136	375096	40.00	ug/ml	-0.03
10) ACENAPHTHENE-D10 (2)	5.088	164	214406	40.00	ug/ml	0.00
16) PHENANTHRENE-D10 (2)	6.017	188	378250	40.00	ug/ml	0.00
17) CHRYSENE-D12 (2)	8.486	240	233956	40.00	ug/ml	-0.04
19) PERYLENE-D12 (2)	11.043	264	222511	40.00	ug/ml	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	2.616	112	226082	0.00	ug/ml	-0.12
Spiked Amount 200.000	Range 30 - 130		Recovery =	0.00%#		
3) Phenol-d6	3.077	99	350989	0.00	ug/ml	-0.11
Spiked Amount 200.000	Range 30 - 130		Recovery =	0.00%#		
7) Nitrobenzene-d5	3.592	82	168956	0.00	ug/ml	0.00
Spiked Amount 100.000	Range 30 - 130		Recovery =	0.00%#		
11) 2-Fluorobiphenyl	4.660	172	319336	0.00	ug/ml	0.03
Spiked Amount 100.000	Range 30 - 130		Recovery =	0.00%#		
12) 2,4,6-Tribromophenol	0.000	330	0	0.00	ug/ml	
Spiked Amount 200.000	Range 30 - 130		Recovery =	0.00%#		
18) Terphenyl-d14	7.207	244	311199	0.00	ug/ml	-0.09
Spiked Amount 100.000	Range 30 - 130		Recovery =	0.00%#		
Target Compounds						Qvalue
4) Benzaldehyde	3.051	106	38521	13.78	ug/ml	96
5) Benzyl Alcohol	3.350	108	49817	21.39	ug/ml	95
8) 2,6-Dichlorophenol	4.060	162	56869	17.20	ug/ml	92
9) Caprolactam	4.264	113	20774	21.16	ug/ml	94
13) Biphenyl	4.725	154	176839	20.17	ug/ml	99
14) 2,3,4,6-Tetrachlorophenol	5.294	230	28741	18.39	ug/ml	98
15) Atrazine	5.816	200	48063	22.71	ug/ml	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\D051624\
Data File : D24S137022.D
Acq On : 16 May 2024 7:14 pm
Operator : BGL
Sample : B374087-MSD1 Inst : GCMSSV4
Misc :
ALS Vial : 22 Sample Multiplier: 1

724

Quant Time: May 23 10:25:44 2024
Quant Method : C:\msdchem\1\METHODS\NCD02154.M
DataAcq Meth:BND02154.M
Quant Title : 8270STD SVMS4 N.C. apx2 extra compds PulseWool
QLast Update : Thu May 23 10:19:14 2024
Response via : Initial Calibration



PREPARATION BENCH SHEET

Printed: 5/12/2024 7:43:00AM

Analysis
8270 DER TCL
8270 MA MCP
8270 Standard
8270 Tentatively Identified Compounds (TICs)

B374087

Pace New England

Prepared using: SW-846 3546

Surrogate Solution
24D0476 Semi Surrogate 100-200ppm

Spiking Solution
24D0854 8270/Svoa Spike-50 ppm

Matrix: Soil

Lab Number	Sample ID and Source Sample	Due Date	Expires	Concentrated	Add'l Notes	Initial (g)	Final (mL)	ul Spike	ul Surrogate	Extraction Comments	TAT
B374087-BLK1	Blank			EGN 5/13/24		30.81	1.0		1000	Shared w/B374088	
B374087-BS1	LCS					30.62		1000	1000		
B374087-BSD1	LCS Dup					30.45		1000	1000		
B374087-MS1	Matrix Spike [24E1437-06]			JRK 5/14/24		30.00	1.0	1000	1000	Soil	
B374087-MSD1	Matrix Spike Dup [24E1437-06]					30.00		1000	1000		
24E1153-01	Site #2 30-30 9 02	05/22/24	05/22/24	MLR 5/14/24		30.46	1.0		1000	ship to elon	12
24E1153-02	Site #6	05/22/24	05/22/24			30.54			1000	ship to elon	12
24E1153-03	Site #7	05/22/24	05/22/24			30.12			1000	ship to elon	12
24E1153-04	Site #8	05/22/24	05/22/24			30.71			1000	ship to elon	12
24E1322-01	Soil Matrix- Meads 30-30 16	05/23/24	05/21/24			30.22			1000	Sand	10
~~24E1397-01~~	~~HB-1 (3-5 FTBG)~~ DK 5/12/24 30-30 9	06/10/24	05/23/24			—			1000		20
~~24E1397-02~~	~~HB-1 (0-0.5FTBG)~~ DK 5/12/24 8	06/10/24	05/23/24			—			1000		20
24E1437-02	CG-2 16	05/24/24	05/22/24	MLR 5/14/24		30.55	1.0		1000	CAT B Soil	10
24E1437-04	B1A	05/24/24	05/22/24	SRK 5/14/24		30.35	1.0		1000	CAT B (14)	10
24E1437-06	SB1A		05/08/24			30.00			1000	Added for BatchQC in: B374087 Soil	10
24E1437-06	SB1A		05/08/24			—			1000	Added for BatchQC in: B374087	10
24E1437-06	SB1A		05/08/24			—			1000	Added for BatchQC in: B374087	10
24E1437-06	SB1A	05/24/24	05/22/24			—			1000	CAT B	10
24E1437-12	SB4A	05/24/24	05/22/24			30.58			1000	CAT B Soil	10

(60) DL BRP (61) 5/12/24 Spikedby/Witnessed By Date

DK 5/12/24 Extracted By Date

Mars1

PREPARATION BENCH SHEET

Printed: 5/12/2024 7:43:00AM

Analysis
8270 DER TCL
8270 MA MCP
8270 Standard
8270 Tentatively Identified Compounds (TICs)

B374087

Pace New England

Prepared using: SW-846 3546

Surrogate Solution
24D0476 Semi Surrogate 100-200ppm

Spiking Solution
24D0854 8270/Svoa Spike-50 ppm

Matrix: Soil

Lab Number	Sample ID and Source Sample	Due Date	Expires	Concentrated	Add'l Notes	Initial (g)	Final (mL)	ul Spike	ul Surrogate	Extraction Comments	TAT
24E1437-17	SB7	05/24/24	05/22/24	SRNS/14/24		30.39	1.0		1000	CAT B Soil	10
24E1437-19	DUP	05/24/24	05/22/24	"		30.32	"		1000	CAT B Soil	10
24E1455-02	SB-301 (205-206) 30-3E16	05/21/24	05/22/24	EGNS/15/24		30.66	1.0		1000	PHENOL ONLY - CAT B REPORT TO MDL Soil	7
24E1455-07	DUP-03	05/21/24	05/22/24	"		30.38	"		1000	PHENOL ONLY - CAT B REPORT TO MDL Soil	7
24E1606-01	51-55NYA DISP-1	05/21/24	05/23/24	"		30.00	"		1000	report to MDL. Plus pyridine Shared w/B374088 Soil	7
24E1617-01	ML-610 30-30	05/17/24	05/23/24	"		30.28	"		1000	report to MDL. Plus pyridine Shared w/B374088 Soil	7
24E1631-01	Soil Waste Classification #1 30-3E16	05/28/24	05/24/24	SRNS/14/24		30.39	1.0		1000	Soil & Oily	10
24E1631-01	Soil Waste Classification #1	05/28/24	05/24/24	"		—	"		1000		10
24E1631-02	Soil Waste Classification #2	05/28/24	05/24/24	"		30.55	"		1000	Soil & Oily	10
24E1631-02	Soil Waste Classification #2	05/28/24	05/24/24	—		—	—		1000		10

Start Date/Time _____

StopDate/Time _____

Standard ID#	Description
24A0470	Sodium Sulfate (BAKED)
24D0807	Methylene Chloride (200 L Drum)
24E0170	Acetone
24E0266	Filter Paper (Fisher) 15.0cm

B-EXT-029

726

Spikedby/Witnessed By _____ Date _____

Extracted By _____ Date _____

C:\ELMNT\Print\bch_DEF_EXT_TAT.rpt

FILE: 3546EXPRESS 12/05/2024 14:51

C:\msdchem\1\DATA\D051524\

Date	Filename	Lab ID	Sample Info
15 May 2024 6:56 am	D24S136001.D	DFTPP 50ng 2303080F2 2012	
15 May 2024 7:13 am	D24S136002.D	8270 50ppm std 24C0900	seerprp
15 May 2024 7:33 am	D24S136003.D	NCExtras 50 ppm 24C0439	
15 May 2024 7:52 am	D24S136004.D	8270 50 ppm 24C0900CC	
15 May 2024 8:13 am	D24S136005.D	istest	
15 May 2024 8:36 am	D24S136006.D	B374096-BS1@/QCC	
15 May 2024 8:56 am	D24S136007.D	B374096-BSd1	
15 May 2024 9:16 am	D24S136008.D	B374096-Blk1	
15 May 2024 9:36 am	D24S136009.D	B374087-BS1@/ders	
15 May 2024 9:56 am	D24S136010.D	B374087-BSD1	
15 May 2024 10:17 am	D24S136011.D	B374087-BLK1@/TIC	
15 May 2024 10:37 am	D24S136012.D	B373937-BS1@/DERS	
15 May 2024 10:57 am	D24S136013.D	B373937-BSD1	
15 May 2024 11:17 am	D24S136014.D	B373937-BLK1	
15 May 2024 11:37 am	D24S136015.D	24E1107-01@/mcps	
15 May 2024 11:57 am	D24S136016.D	24E1617-01	
15 May 2024 12:18 pm	D24S136017.D	24E0993-07@/RRIS	
15 May 2024 12:38 pm	D24S136018.D	24E0988-01	
15 May 2024 12:58 pm	D24S136019.D	24D3534-01	
15 May 2024 1:18 pm	D24S136020.D	24D3534-02	
15 May 2024 1:38 pm	D24S136021.D	24e0568-01re1@2x	
15 May 2024 2:01 pm	D24S136022.D	24e1455-02	
15 May 2024 2:21 pm	D24S136023.D	24e1455-07	
15 May 2024 2:41 pm	D24S136024.D	24e1606-01	
15 May 2024 3:01 pm	D24S136025.D	24e1153-01@/Stds	
15 May 2024 3:21 pm	D24S136026.D	24e1153-02	
15 May 2024 3:41 pm	D24S136027.D	24e1153-03	
15 May 2024 4:01 pm	D24S136028.D	24e1153-04	
15 May 2024 4:22 pm	D24S136029.D	24e1322-01	
15 May 2024 4:52 pm	D24S136030.D	24e1347-01	
15 May 2024 5:12 pm	D24S136031.D	B374096-MS1@/stds	
15 May 2024 5:32 pm	D24S136032.D	B374096-MSD1	
15 May 2024 5:52 pm	D24S136033.D	24E1319-01	
15 May 2024 6:12 pm	D24S136034.D	24E1617-01RE1@5X	
15 May 2024 6:32 pm	D24S136035.D	24E1153-04@/rris	
15 May 2024 6:52 pm	D24S136036.D	24E1322-01	
16 May 2024 9:19 am	D24S136041.D	TEST	

C:\msdchem\1\DATA\D051624\

Date	Filename	Lab ID	Sample Info
16 May 2024 12:10 pm	D24S137001.D	DFTPP 50ng 2303080F2 2012	
16 May 2024 12:30 pm	D24S137002.D	8270 50ppm std 24C0900	
16 May 2024 12:49 pm	D24S137003.D	NCExtras 50 ppm 24C0439	
16 May 2024 1:14 pm	D24S137004.D	B374262-BS1@/DERS	
16 May 2024 1:34 pm	D24S137005.D	B374262-BSD1	
16 May 2024 1:54 pm	D24S137006.D	B374222-BS1@/DERW	
16 May 2024 2:14 pm	D24S137007.D	B374222-BSD1	
16 May 2024 2:34 pm	D24S137008.D	B374262-BLK1	
16 May 2024 2:54 pm	D24S137009.D	B374222-BLK1@/DER TIC	
16 May 2024 3:14 pm	D24S137010.D	24E1630-01@5X	
16 May 2024 3:34 pm	D24S137011.D	24E1630-02@5X	
16 May 2024 3:54 pm	D24S137012.D	24E1630-03@5X	
16 May 2024 4:14 pm	D24S137013.D	24E1630-04@5X	
16 May 2024 4:34 pm	D24S137014.D	24E0702-01	
16 May 2024 4:54 pm	D24S137015.D	24E1437-02@/DER	
16 May 2024 5:14 pm	D24S137016.D	24E1437-04	
16 May 2024 5:34 pm	D24S137017.D	24E1437-06	
16 May 2024 5:54 pm	D24S137018.D	24E1437-12	
16 May 2024 6:14 pm	D24S137019.D	24E1437-17	
16 May 2024 6:34 pm	D24S137020.D	24E1437-19	
16 May 2024 6:54 pm	D24S137021.D	B374087-MS1	
16 May 2024 7:14 pm	D24S137022.D	B374087-MSD1	
16 May 2024 7:34 pm	D24S137023.D	B374262-MS1	
16 May 2024 7:54 pm	D24S137024.D	B374262-MSD1	
16 May 2024 8:14 pm	D24S137025.D	24E1397-01	
16 May 2024 8:34 pm	D24S137026.D	24E1397-02	
16 May 2024 8:54 pm	D24S137027.D	24E1690-02	
16 May 2024 9:14 pm	D24S137028.D	24E1690-03	
16 May 2024 9:34 pm	D24S137029.D	24E1690-05	
16 May 2024 9:54 pm	D24S137030.D	24E1690-06	
16 May 2024 10:14 pm	D24S137031.D	24E1631-01@5X	
16 May 2024 10:34 pm	D24S137032.D	24E1631-02@5X	
16 May 2024 10:54 pm	D24S137033.D	24E1631-02RE1@50X	
16 May 2024 11:14 pm	D24S137034.D	24E1630-04@/DERS	

SVOA

SAMPLE DATA

1 - FORM I
ANALYSIS DATA SHEET

CG-2

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-02	File ID:	F24S134013.D
Sampled:	05/08/24 10:40	Prepared:	05/10/24 18:53	Analyzed:	05/13/24 19:23
Solids:	62.99	Preparation:	SW-846 3546	Dilution:	1
Initial/Final:	20.52 g / 1 mL				
Batch:	B374074	Sequence:	S104463	Calibration:	2400298
				Instrument:	GCMSSV6

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
123-91-1	1,4-Dioxane		0.061	0.077	

Quantitation Report (QT Reviewed)

733

Data Path : C:\msdchem\1\data\F051324D\
Data File : F24S134013.D
Acq On : 13 May 2024 7:23 pm
Operator : GJB
Sample : 24E1437-02 Inst : GCMSSV6
Misc :
ALS Vial : 13 Sample Multiplier: 1

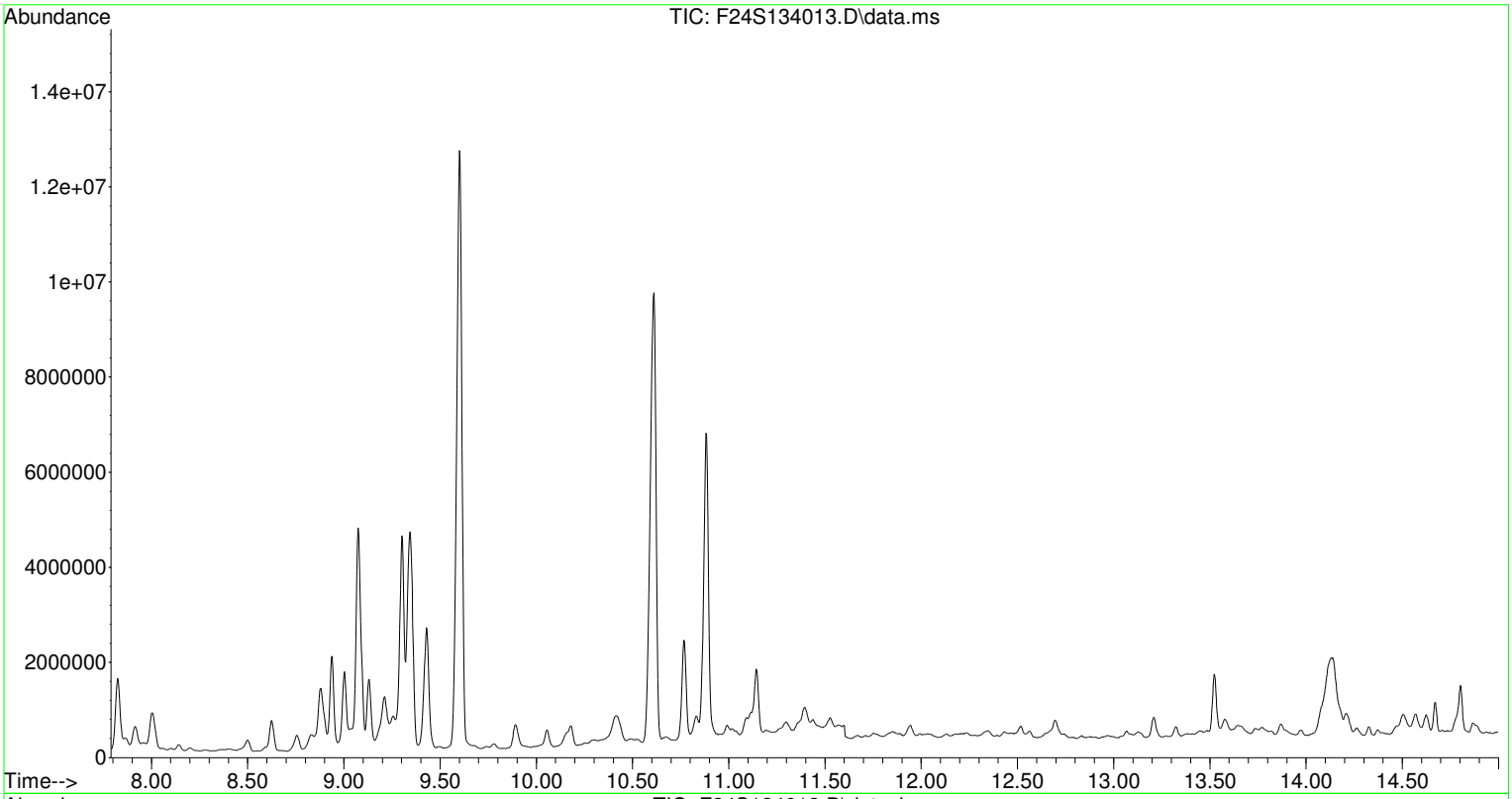
Quant Time: May 14 07:54:28 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324dioxB.M
Quant Title :
QLast Update : Wed Mar 13 13:38:20 2024
Response via : Initial Calibration

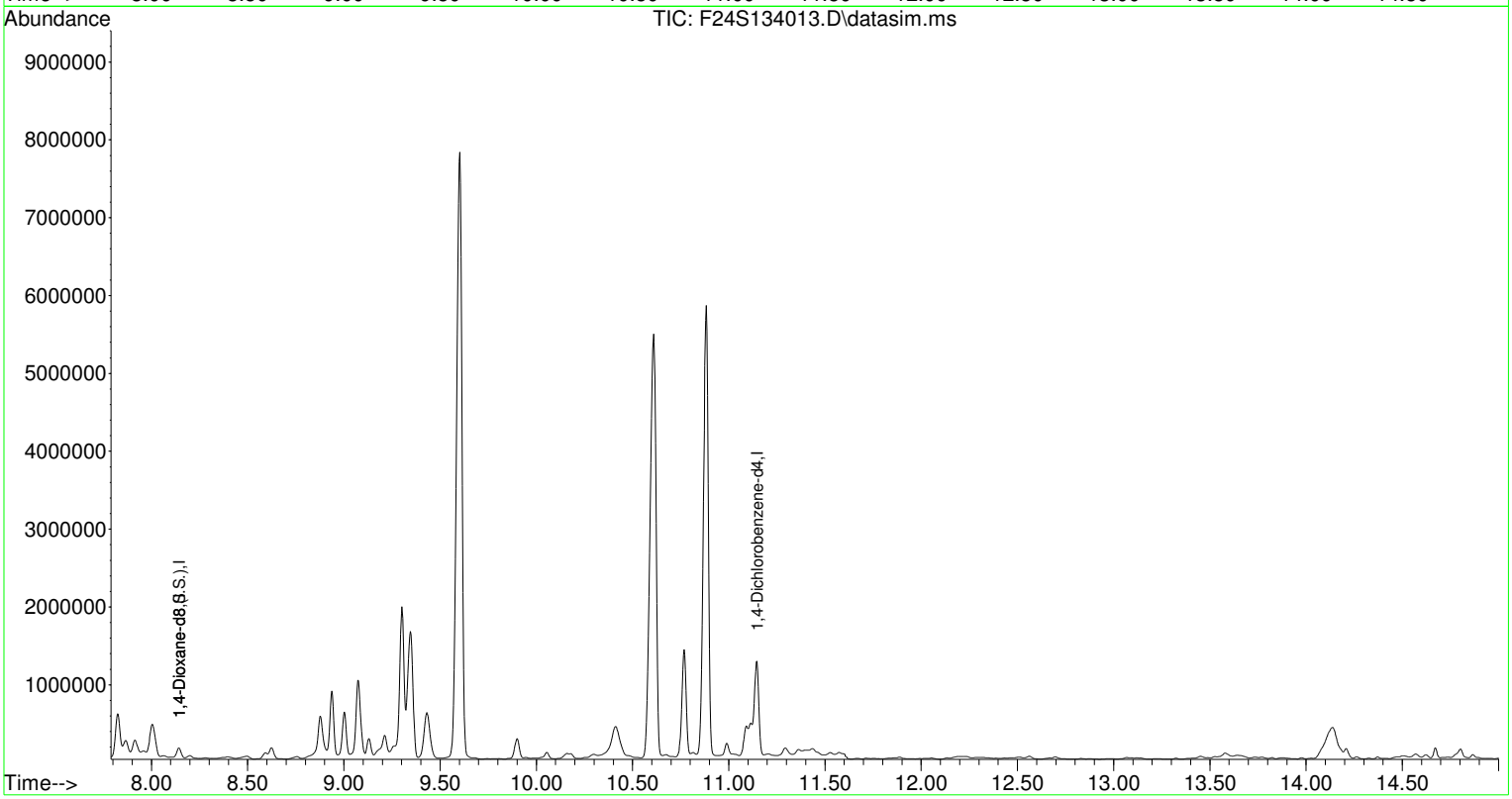
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	11.146	150	912378	10.000	ug/mL	-0.02
3) 1,4-Dioxane-d8 (I.S.)	8.144	96	98736	10.000	ug/mL	0.07
System Monitoring Compounds						
2) 1,4-Dioxane-d8	8.144	96	98736	3.513	ug/mL	0.07
Target Compounds						Qvalue
4) 1,4-Dioxane	0.000		0	N.D.	d	

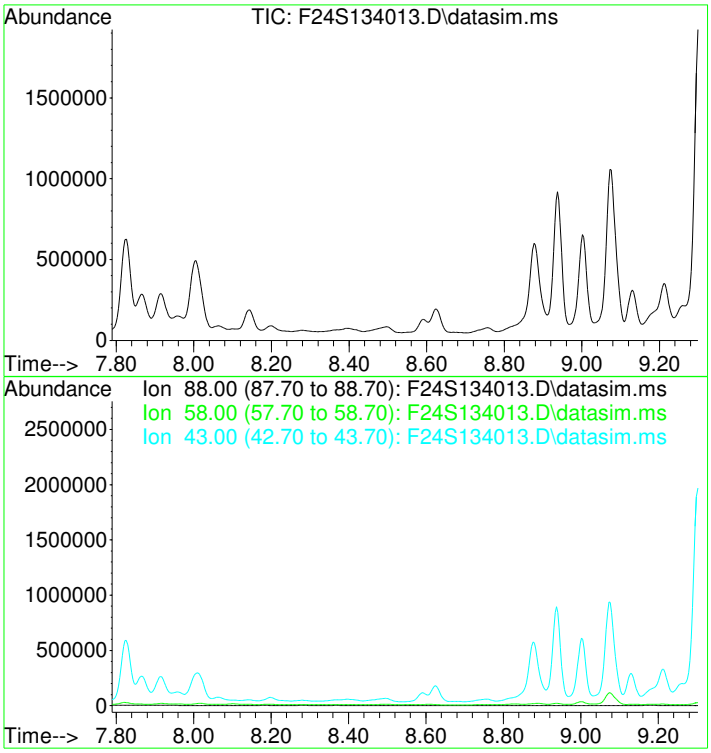
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\F051324D\
Data File : F24S134013.D
Acq On : 13 May 2024 7:23 pm
Operator : GJB
Sample : 24E1437-02 Inst : GCMSSV6
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 14 07:54:28 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324dioxB.M
Quant Title :
QLast Update : Wed Mar 13 13:38:20 2024
Response via : Initial Calibration







#4
1,4-Dioxane
Concen: N.D.
Expected RT: 8.12 min

Lab File: F24S134013.D
Acq: 13 May 2024 7:23 pm

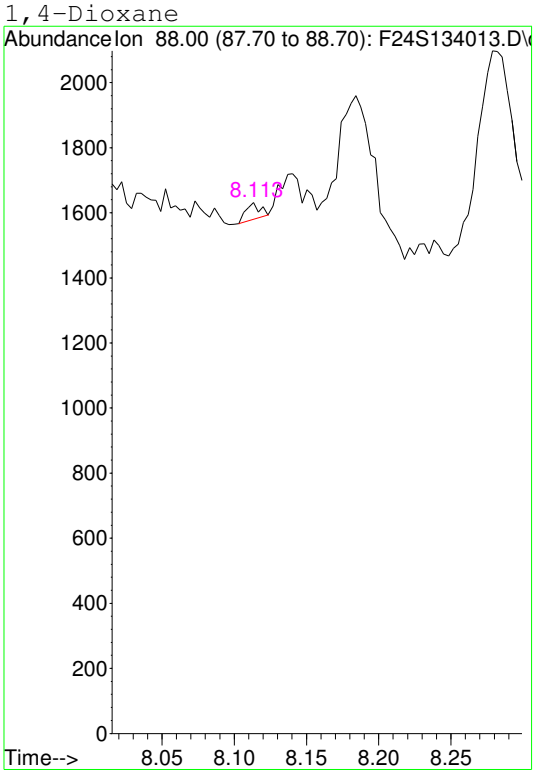
Tgt Ion: 88

Sig	Exp Ratio
88	100
58	80.8
43	37.7

Data Path : C:\msdchem\1\data\F051324D\
Data File : F24S134013.D
Acq On : 13 May 2024 7:23 pm
Operator : GJB
Sample : 24E1437-02
Misc :

Quant Time : Tue May 14 07:54:28 2024
Quant Method : C:\msdchem\1\methods\DQ031324dioxB.M
QLast Update : Wed Mar 13 13:38:20 2024

Original Integration
1,4-Dioxane



Original Int. Results

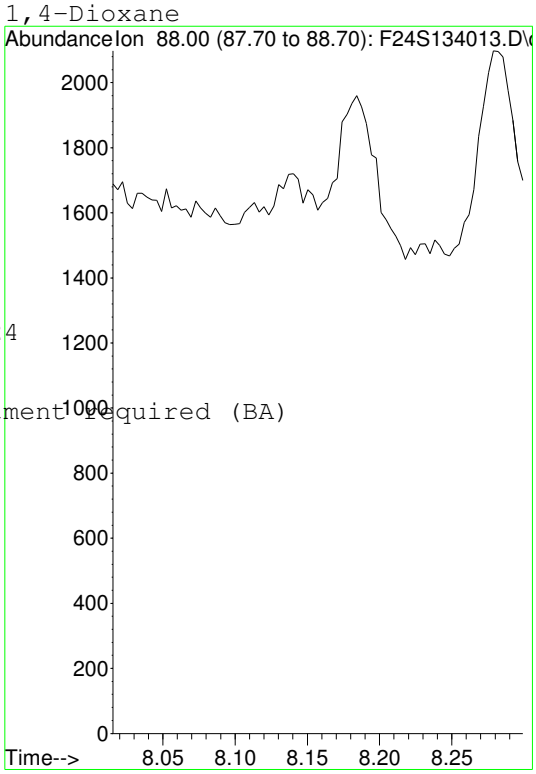
RT : 8.11
Area : 38
Amount: 0.00327477

Manual Int. Results

Tue May 14 07:54:28 2024

MIuser: GJB
Reason: Baseline adjustment required (BA)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1,4-Dioxane



1 - FORM I
ANALYSIS DATA SHEET

B1A

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-04	File ID:	F24S134014.D
Sampled:	05/08/24 13:27	Prepared:	05/10/24 18:53	Analyzed:	05/13/24 19:43
Solids:	85.55	Preparation:	SW-846 3546	Dilution:	1
Initial/Final:	20.8 g / 1 mL				
Batch:	B374074	Sequence:	S104463	Calibration:	2400298
				Instrument:	GCMSSV6

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
123-91-1	1,4-Dioxane		0.044	0.056	

Quantitation Report (QT Reviewed)

738

Data Path : C:\msdchem\1\data\F051324D\
Data File : F24S134014.D
Acq On : 13 May 2024 7:43 pm
Operator : GJB
Sample : 24E1437-04 Inst : GCMSSV6
Misc :
ALS Vial : 14 Sample Multiplier: 1

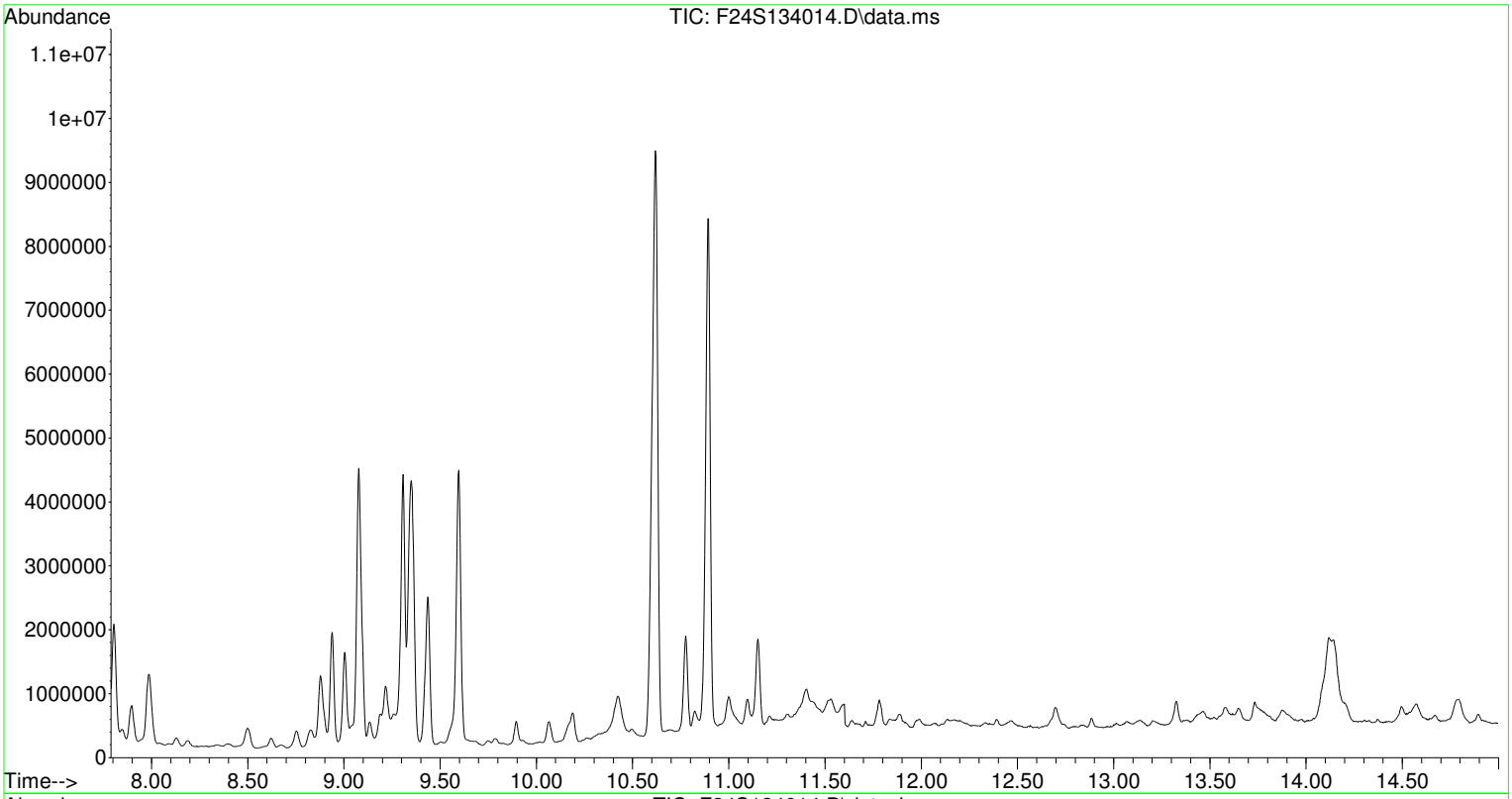
Quant Time: May 14 07:54:41 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324dioxB.M
Quant Title :
QLast Update : Wed Mar 13 13:38:20 2024
Response via : Initial Calibration

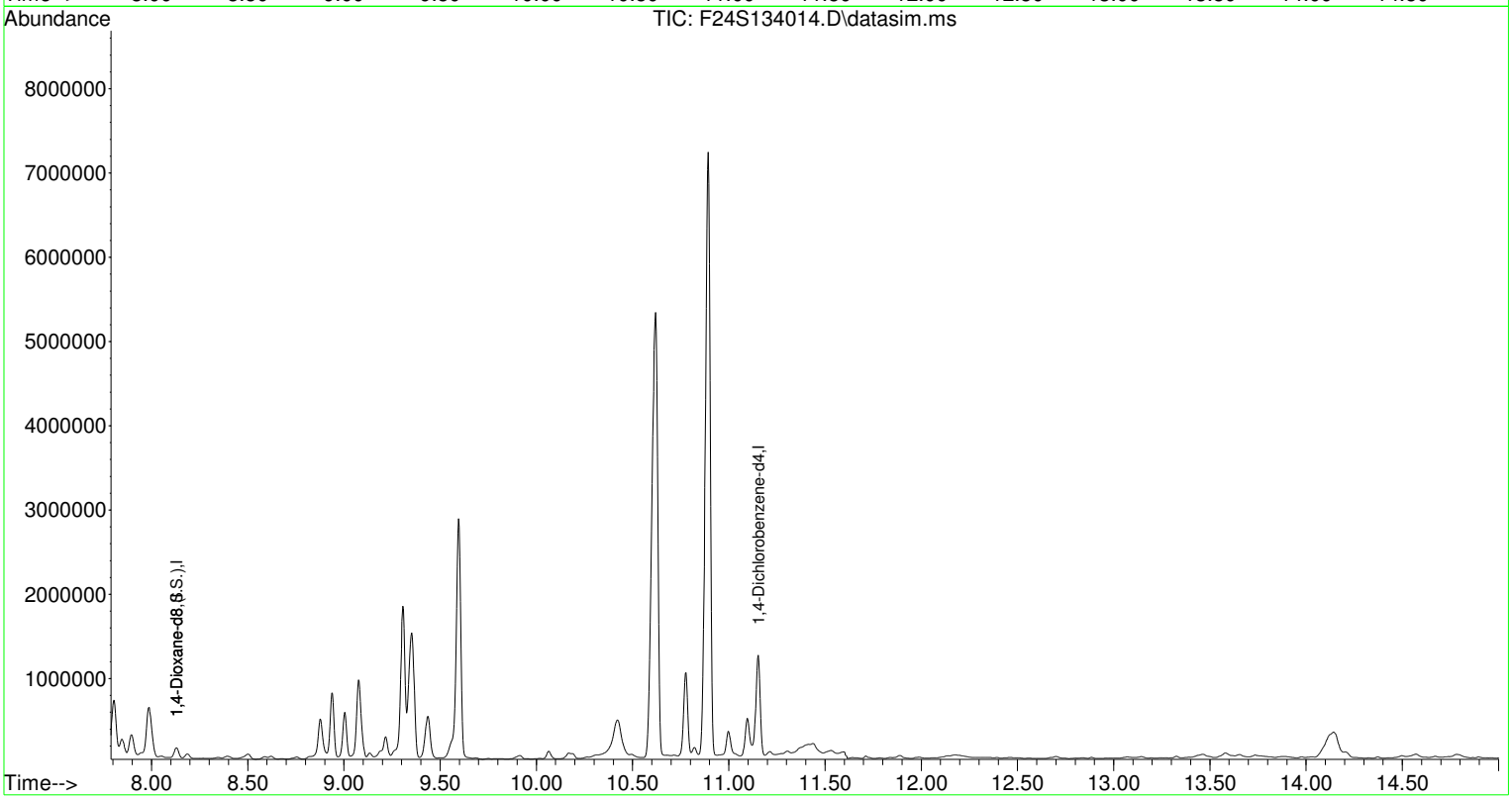
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	11.153	150	887762	10.000	ug/mL	-0.01
3) 1,4-Dioxane-d8 (I.S.)	8.130	96	93820	10.000	ug/mL	0.06
System Monitoring Compounds						
2) 1,4-Dioxane-d8	8.130	96	93820	3.431	ug/mL	0.06
Target Compounds						Qvalue
4) 1,4-Dioxane	0.000		0	N.D.	d	

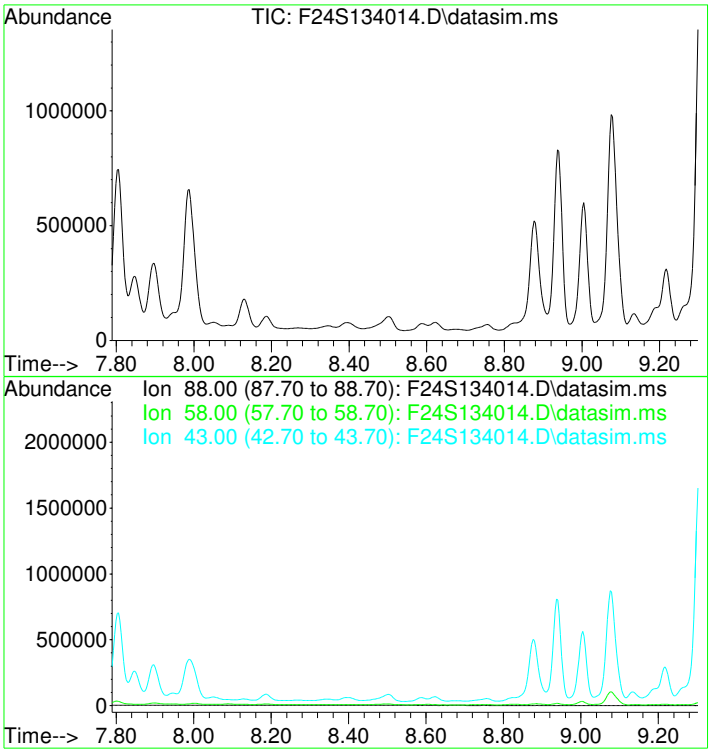
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\F051324D\
Data File : F24S134014.D
Acq On : 13 May 2024 7:43 pm
Operator : GJB
Sample : 24E1437-04 Inst : GCMSSV6
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 14 07:54:41 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324dioxB.M
Quant Title :
QLast Update : Wed Mar 13 13:38:20 2024
Response via : Initial Calibration







#4
1,4-Dioxane
Concen: N.D.
Expected RT: 8.12 min

Lab File: F24S134014.D
Acq: 13 May 2024 7:43 pm

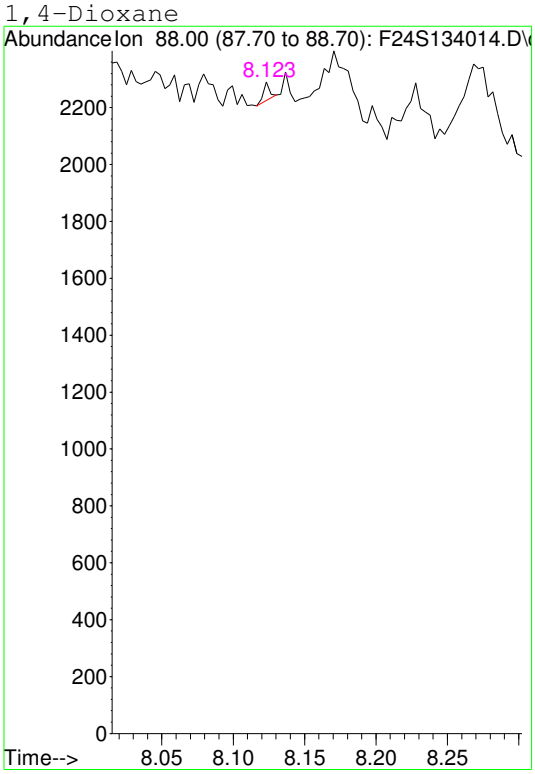
Tgt Ion: 88

Sig	Exp Ratio
88	100
58	80.8
43	37.7

Data Path : C:\msdchem\1\data\F051324D\
Data File : F24S134014.D
Acq On : 13 May 2024 7:43 pm
Operator : GJB
Sample : 24E1437-04
Misc :

Quant Time : Tue May 14 07:54:41 2024
Quant Method : C:\msdchem\1\methods\DQ031324dioxB.M
QLast Update : Wed Mar 13 13:38:20 2024

Original Integration
1,4-Dioxane



Original Int. Results

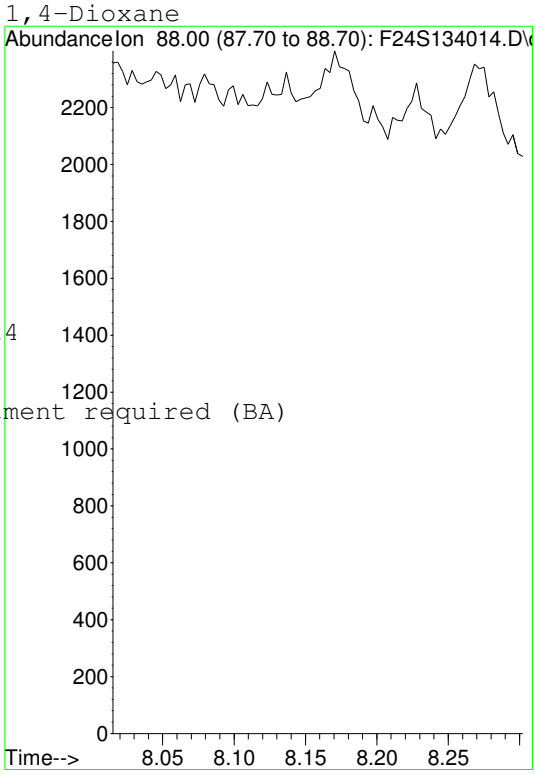
RT : 8.12
Area : 22
Amount: 0.00199526

Manual Int. Results

Tue May 14 07:54:41 2024

MIuser: GJB
Reason: Baseline adjustment required (BA)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1,4-Dioxane



1 - FORM I
ANALYSIS DATA SHEET

SB1A

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-06	File ID:	F24S134008.D
Sampled:	05/08/24 14:19	Prepared:	05/10/24 18:53	Analyzed:	05/13/24 17:42
Solids:	72.51	Preparation:	SW-846 3546	Dilution:	1
Initial/Final:	20.17 g / 1 mL				
Batch:	B374074	Sequence:	S104463	Calibration:	2400298
				Instrument:	GCMSSV6

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
123-91-1	1,4-Dioxane		0.054	0.068	

Quantitation Report (QT Reviewed)

743

Data Path : C:\msdchem\1\data\F051324D\
Data File : F24S134008.D
Acq On : 13 May 2024 5:42 pm
Operator : GJB
Sample : 24E1437-06 Inst : GCMSSV6
Misc :
ALS Vial : 8 Sample Multiplier: 1

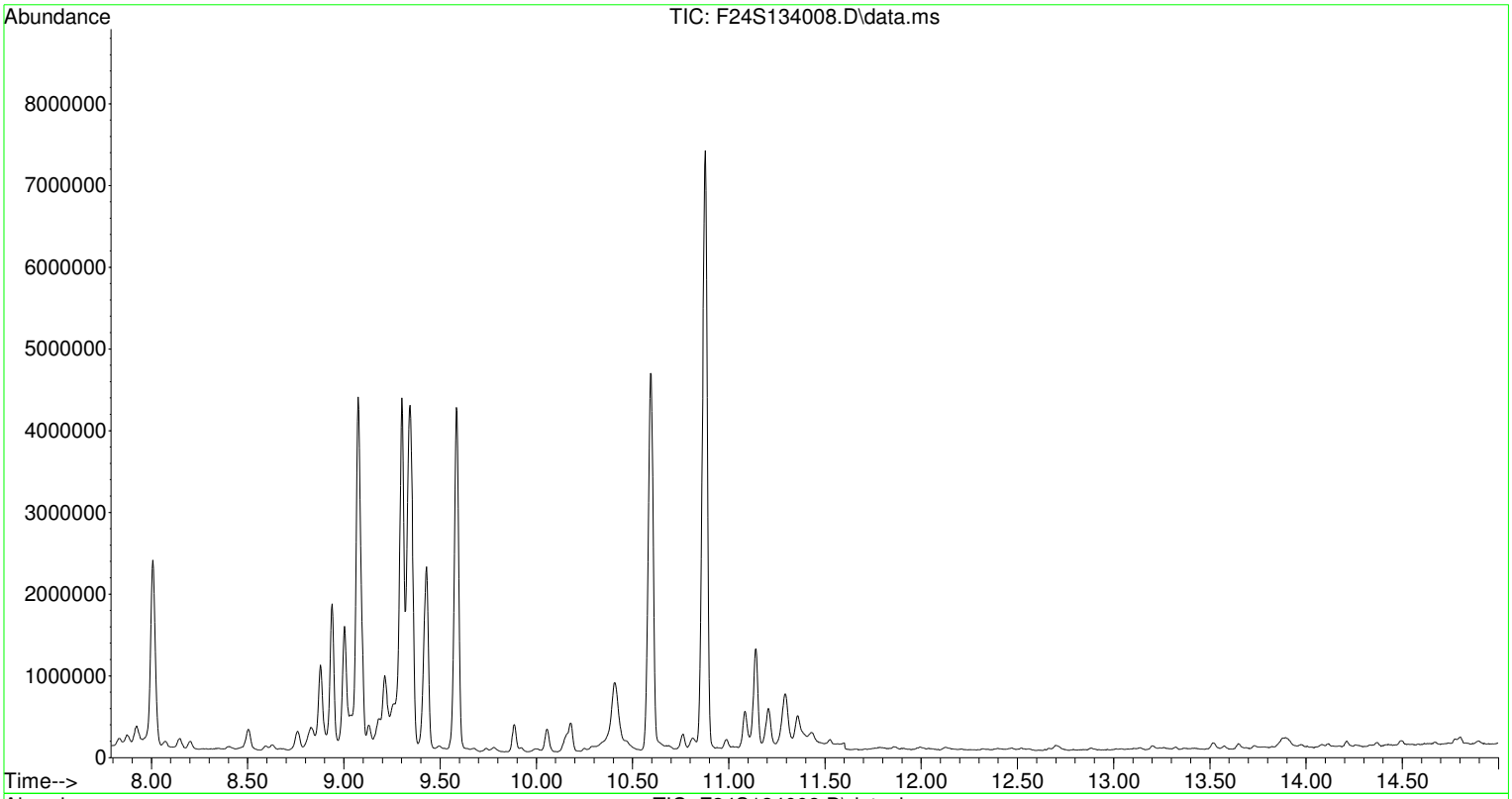
Quant Time: May 14 07:53:14 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324dioxB.M
Quant Title :
QLast Update : Wed Mar 13 13:38:20 2024
Response via : Initial Calibration

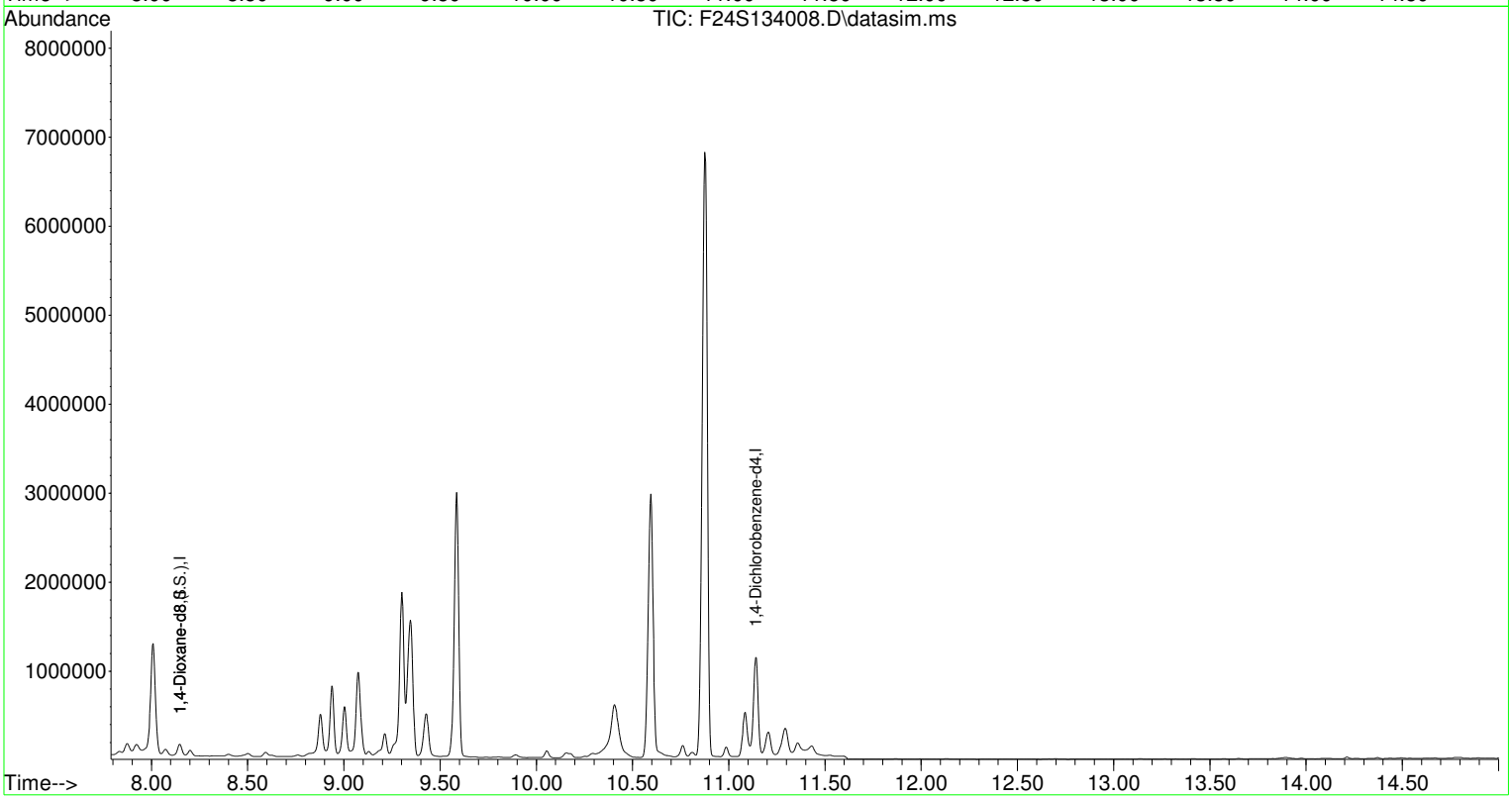
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	11.139	150	852914	10.000	ug/mL	-0.02
3) 1,4-Dioxane-d8 (I.S.)	8.147	96	100790	10.000	ug/mL	0.07
System Monitoring Compounds						
2) 1,4-Dioxane-d8	8.147	96	100790	3.836	ug/mL	0.08
Target Compounds						Qvalue
4) 1,4-Dioxane	0.000		0	N.D.	d	

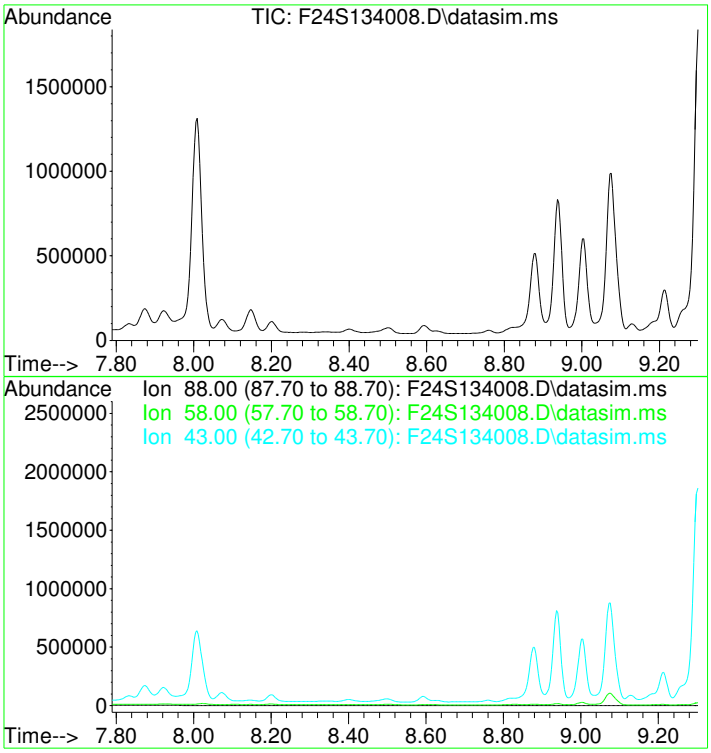
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\F051324D\
Data File : F24S134008.D
Acq On : 13 May 2024 5:42 pm
Operator : GJB
Sample : 24E1437-06 Inst : GCMSSV6
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 14 07:53:14 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324dioxB.M
Quant Title :
QLast Update : Wed Mar 13 13:38:20 2024
Response via : Initial Calibration







#4
1,4-Dioxane
Concen: N.D.
Expected RT: 8.12 min

Lab File: F24S134008.D
Acq: 13 May 2024 5:42 pm

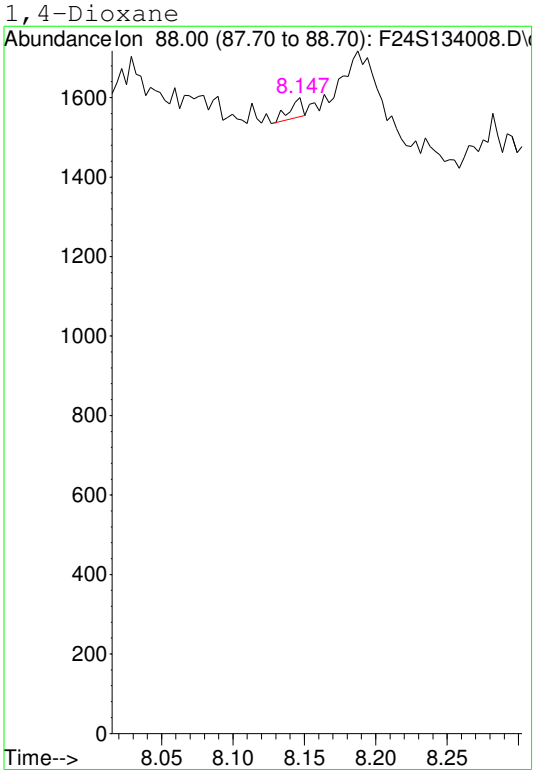
Tgt Ion: 88

Sig	Exp Ratio
88	100
58	80.8
43	37.7

Data Path : C:\msdchem\1\data\F051324D\
Data File : F24S134008.D
Acq On : 13 May 2024 5:42 pm
Operator : GJB
Sample : 24E1437-06
Misc :

Quant Time : Tue May 14 07:53:14 2024
Quant Method : C:\msdchem\1\methods\DQ031324dioxB.M
QLast Update : Wed Mar 13 13:38:20 2024

Original Integration
1,4-Dioxane



Original Int. Results

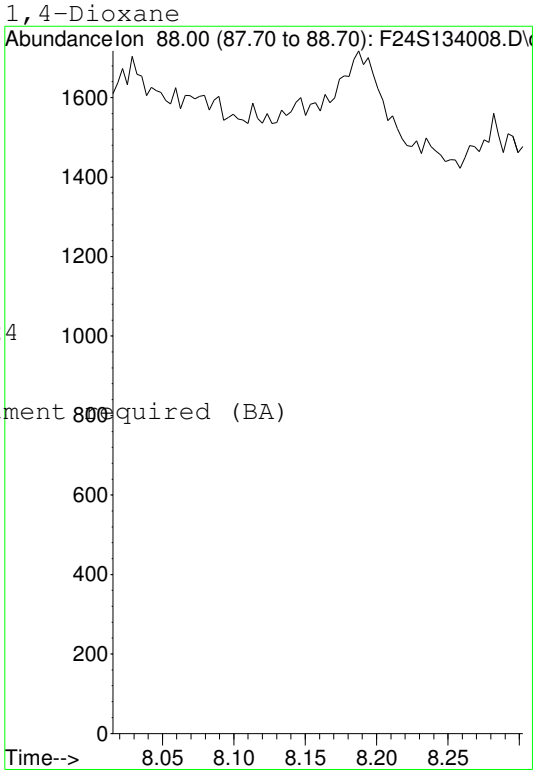
RT : 8.15
Area : 32
Amount: 0.0027015

Manual Int. Results

Tue May 14 07:53:14 2024

MIuser: GJB
Reason: Baseline adjustment required (BA)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1,4-Dioxane



1 - FORM I
ANALYSIS DATA SHEET

SB4A

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-12	File ID:	F24S134011.D
Sampled:	05/08/24 14:53	Prepared:	05/10/24 18:53	Analyzed:	05/13/24 18:43
Solids:	77.87	Preparation:	SW-846 3546	Dilution:	1
Initial/Final:	20 g / 1 mL				
Batch:	B374074	Sequence:	S104463	Calibration:	2400298
				Instrument:	GCMSSV6

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
123-91-1	1,4-Dioxane		0.051	0.064	

Quantitation Report (QT Reviewed)

748

Data Path : C:\msdchem\1\data\F051324D\
Data File : F24S134011.D
Acq On : 13 May 2024 6:43 pm
Operator : GJB
Sample : 24E1437-12 Inst : GCMSSV6
Misc :
ALS Vial : 11 Sample Multiplier: 1

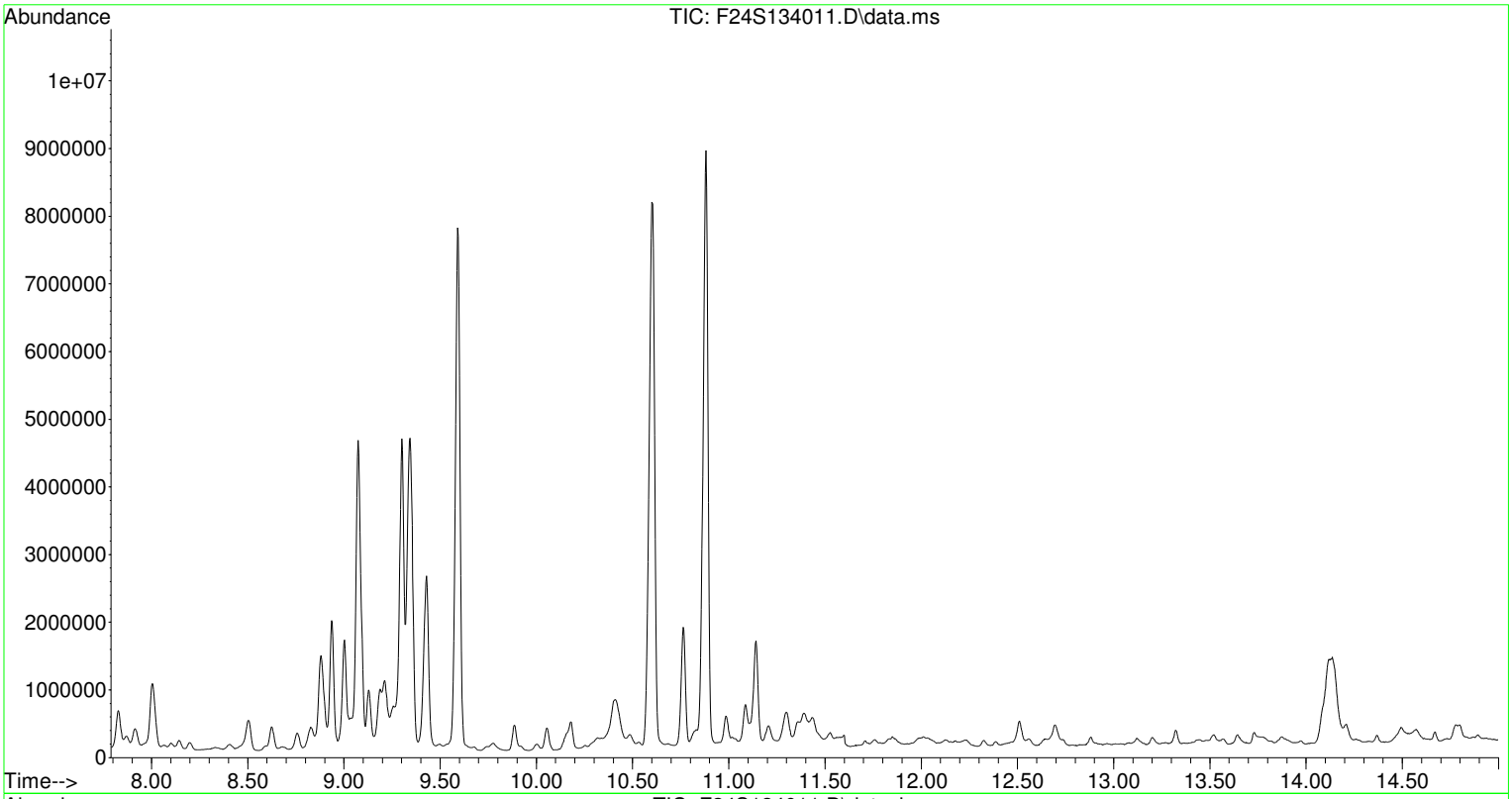
Quant Time: May 14 07:54:04 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324dioxB.M
Quant Title :
QLast Update : Wed Mar 13 13:38:20 2024
Response via : Initial Calibration

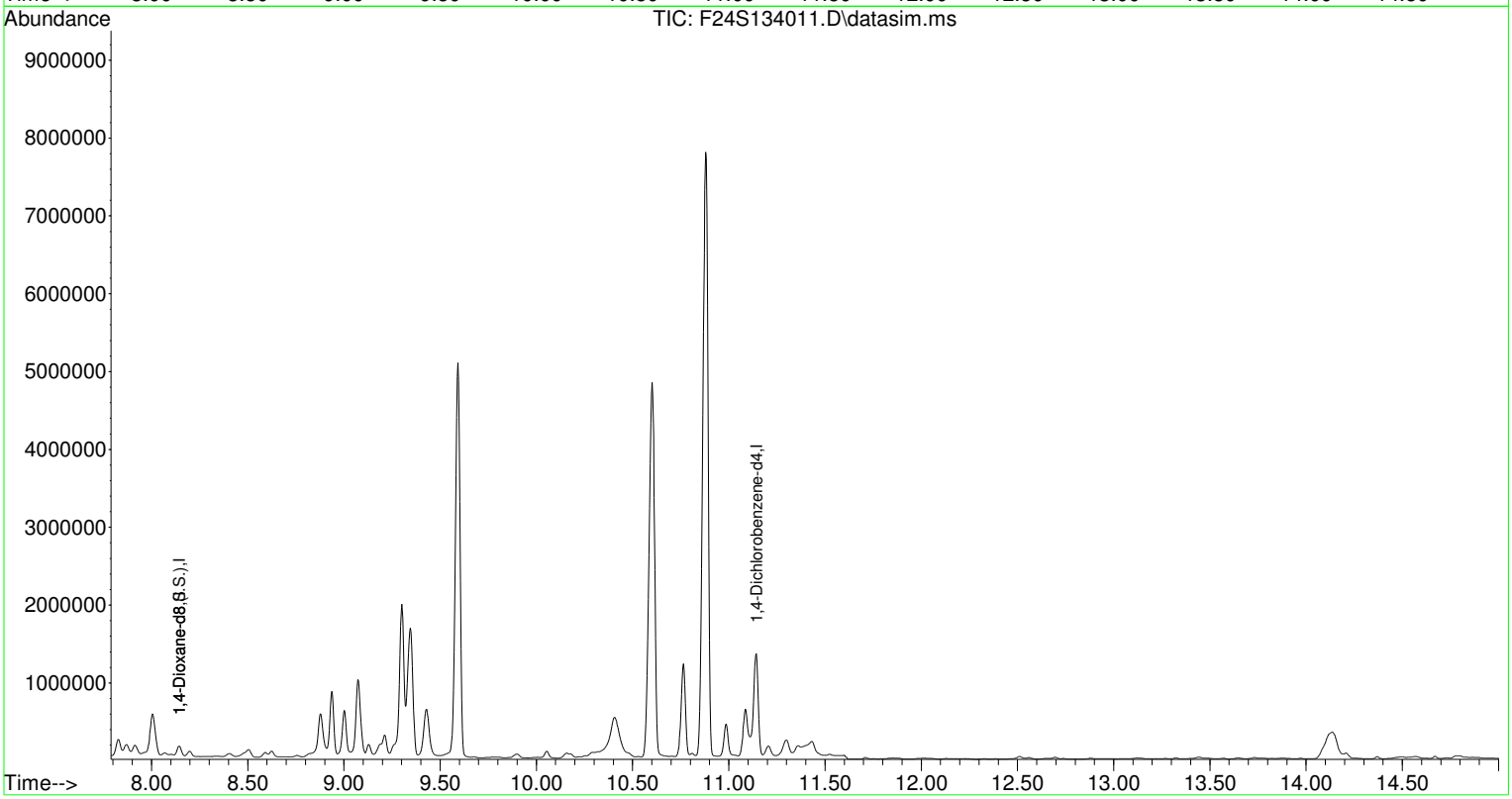
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	11.142	150	994897	10.000	ug/mL	-0.02
3) 1,4-Dioxane-d8 (I.S.)	8.143	96	101034	10.000	ug/mL	0.07
System Monitoring Compounds						
2) 1,4-Dioxane-d8	8.143	96	101034	3.297	ug/mL	0.07
Target Compounds						Qvalue
4) 1,4-Dioxane	0.000		0	N.D.	d	

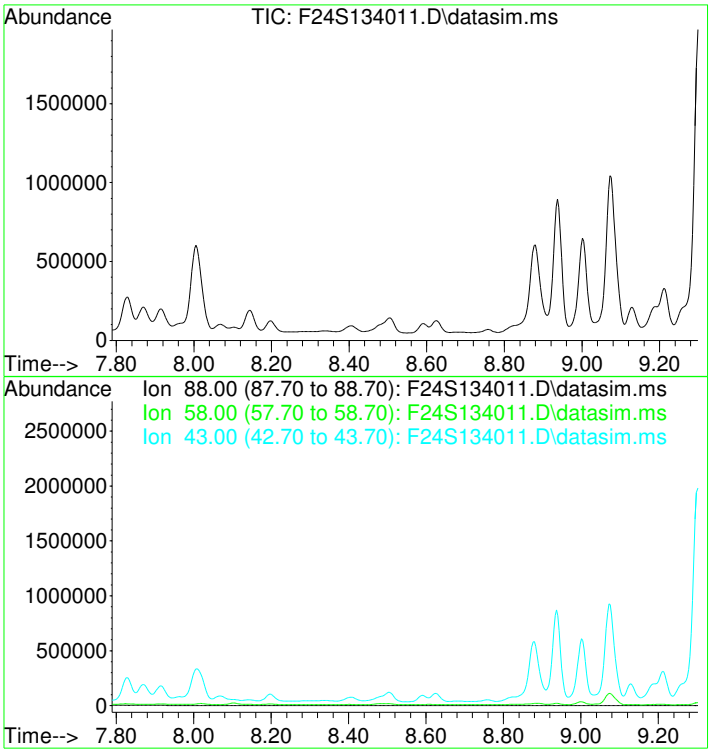
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\F051324D\
Data File : F24S134011.D
Acq On : 13 May 2024 6:43 pm
Operator : GJB
Sample : 24E1437-12 Inst : GCMSSV6
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 14 07:54:04 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324dioxB.M
Quant Title :
QLast Update : Wed Mar 13 13:38:20 2024
Response via : Initial Calibration







#4
1,4-Dioxane
Concen: N.D.
Expected RT: 8.12 min

Lab File: F24S134011.D
Acq: 13 May 2024 6:43 pm

Tgt Ion: 88

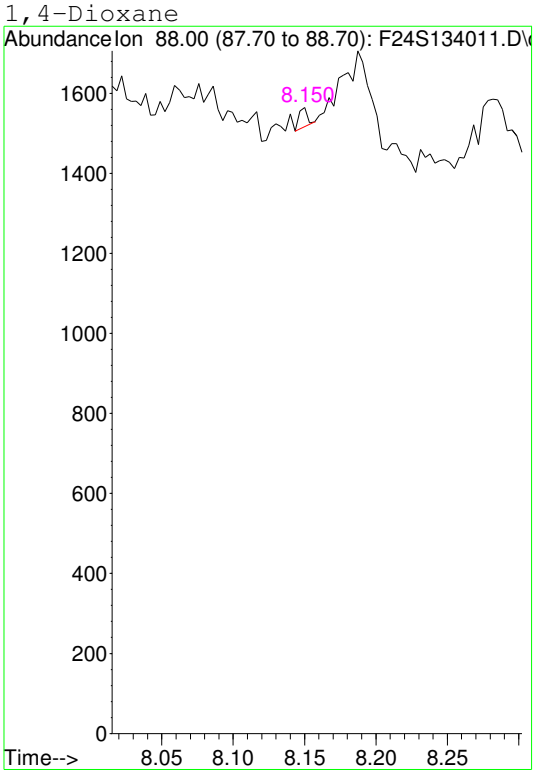
Sig	Exp Ratio
88	100
58	80.8
43	37.7

750

Data Path : C:\msdchem\1\data\F051324D\
Data File : F24S134011.D
Acq On : 13 May 2024 6:43 pm
Operator : GJB
Sample : 24E1437-12
Misc :

Quant Time : Tue May 14 07:54:04 2024
Quant Method : C:\msdchem\1\methods\DQ031324dioxB.M
QLast Update : Wed Mar 13 13:38:20 2024

Original Integration
1,4-Dioxane



Original Int. Results

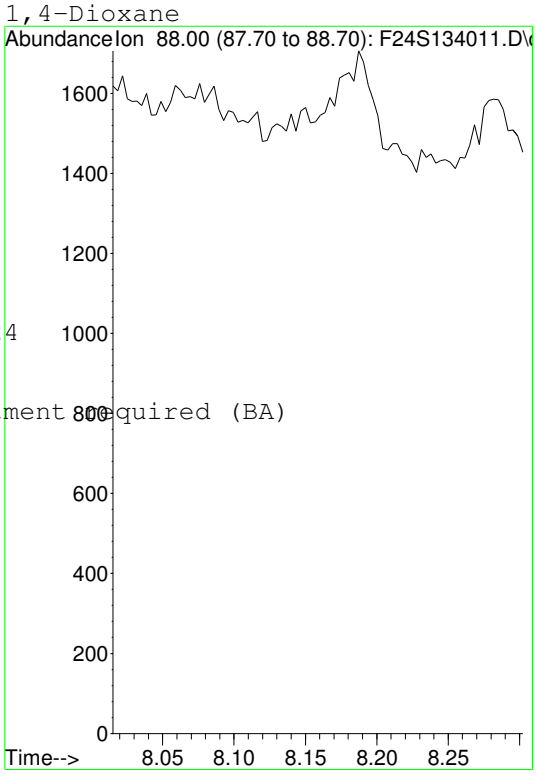
RT : 8.15
Area : 26
Amount: 0.00218967

Manual Int. Results

Tue May 14 07:54:04 2024

MIuser: GJB
Reason: Baseline adjustment required (BA)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1,4-Dioxane



1 - FORM I
ANALYSIS DATA SHEET

SB7

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-17	File ID:	F24S134012.D
Sampled:	05/08/24 15:39	Prepared:	05/10/24 18:53	Analyzed:	05/13/24 19:02
Solids:	69.34	Preparation:	SW-846 3546	Dilution:	1
Initial/Final:	20.8 g / 1 mL				
Batch:	B374074	Sequence:	S104463	Calibration:	2400298
				Instrument:	GCMSSV6

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
123-91-1	1,4-Dioxane		0.055	0.069	

Quantitation Report (QT Reviewed)

753

Data Path : C:\msdchem\1\data\F051324D\
Data File : F24S134012.D
Acq On : 13 May 2024 7:02 pm
Operator : GJB
Sample : 24E1437-17 Inst : GCMSSV6
Misc :
ALS Vial : 12 Sample Multiplier: 1

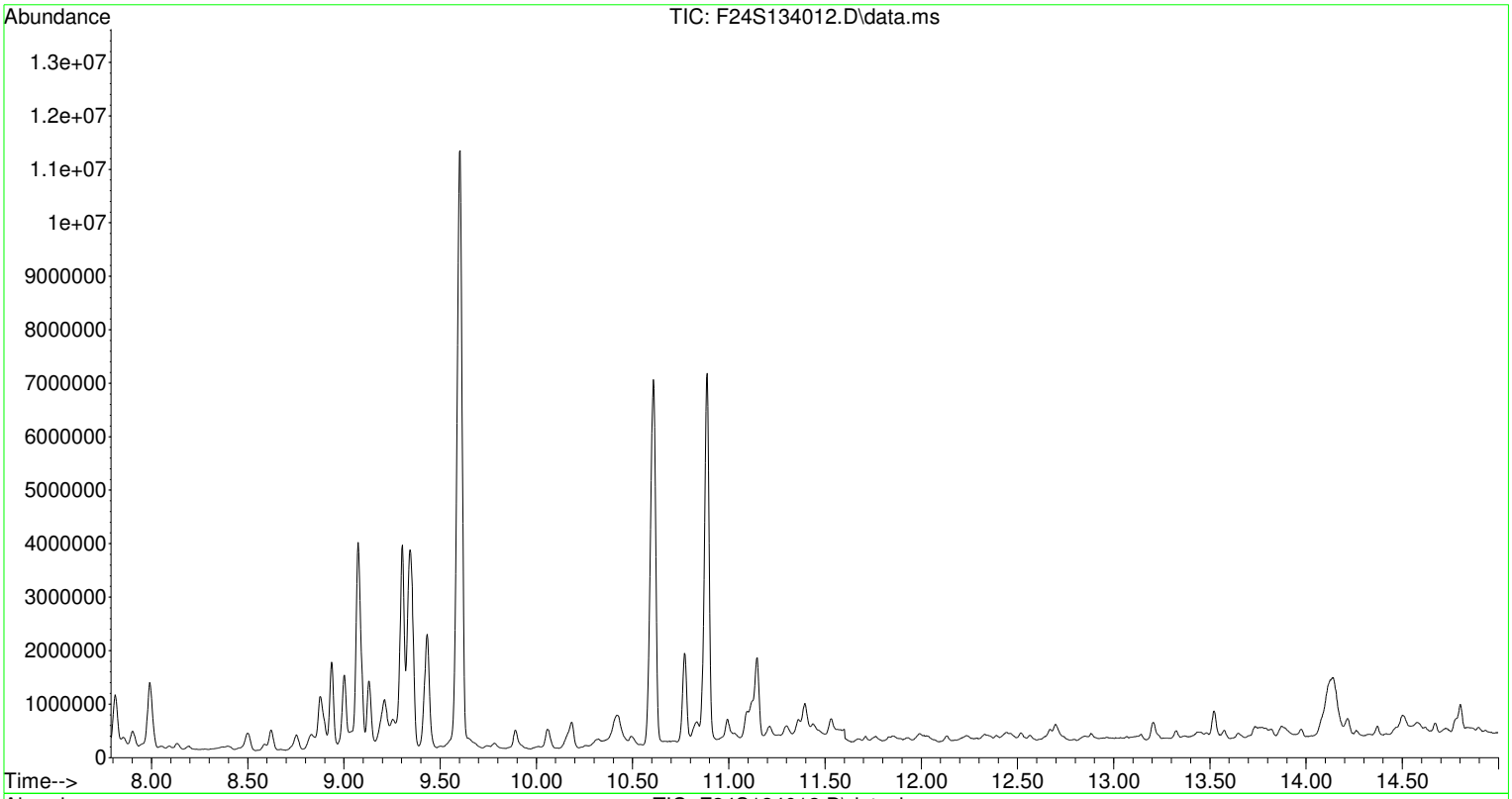
Quant Time: May 14 07:54:16 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324dioxB.M
Quant Title :
QLast Update : Wed Mar 13 13:38:20 2024
Response via : Initial Calibration

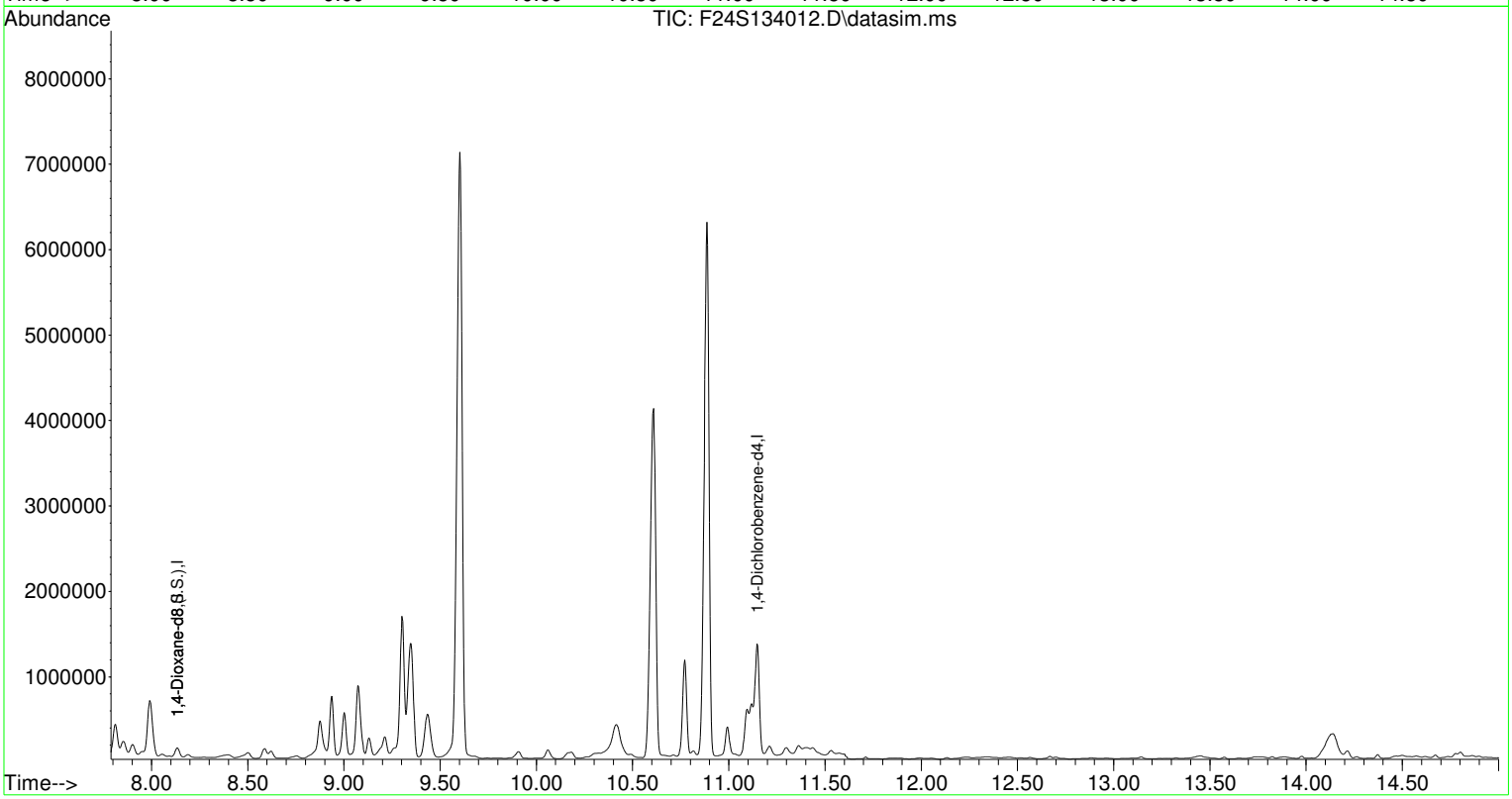
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	11.146	150	969664	10.000	ug/mL	-0.02
3) 1,4-Dioxane-d8 (I.S.)	8.133	96	84364	10.000	ug/mL	0.06
System Monitoring Compounds						
2) 1,4-Dioxane-d8	8.133	96	84364	2.824	ug/mL	0.06
Target Compounds						Qvalue
4) 1,4-Dioxane	0.000		0	N.D.	d	

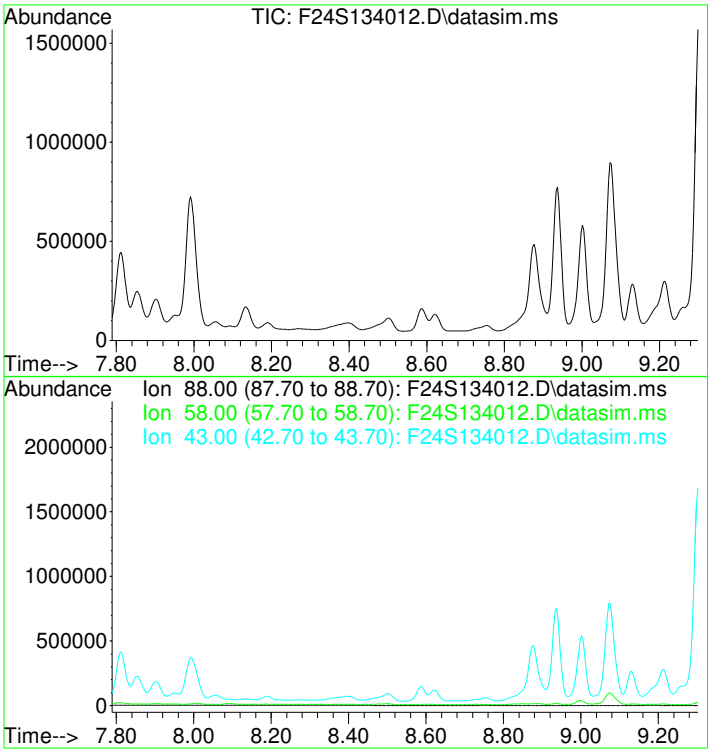
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\F051324D\
Data File : F24S134012.D
Acq On : 13 May 2024 7:02 pm
Operator : GJB
Sample : 24E1437-17 Inst : GCMSSV6
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 14 07:54:16 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324dioxB.M
Quant Title :
QLast Update : Wed Mar 13 13:38:20 2024
Response via : Initial Calibration







#4
1,4-Dioxane
Concen: N.D.
Expected RT: 8.12 min

Lab File: F24S134012.D
Acq: 13 May 2024 7:02 pm

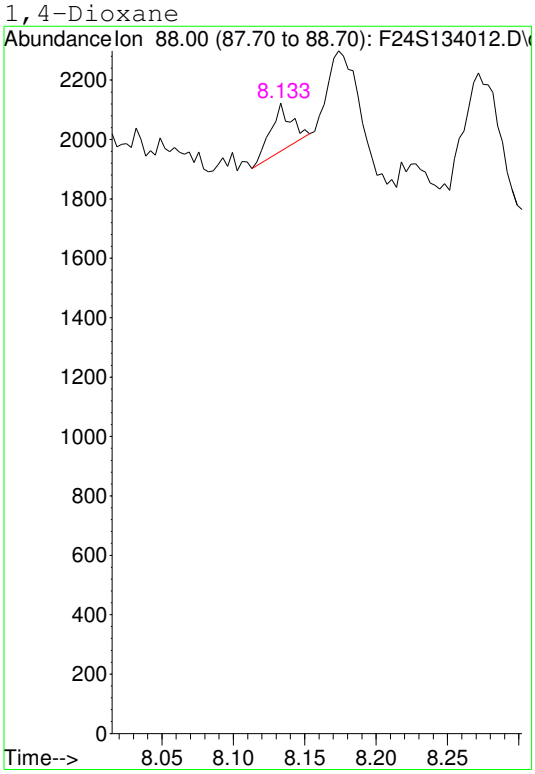
Tgt Ion: 88

Sig	Exp Ratio
88	100
58	80.8
43	37.7

Data Path : C:\msdchem\1\data\F051324D\
Data File : F24S134012.D
Acq On : 13 May 2024 7:02 pm
Operator : GJB
Sample : 24E1437-17
Misc :

Quant Time : Tue May 14 07:54:16 2024
Quant Method : C:\msdchem\1\methods\DQ031324dioxB.M
QLast Update : Wed Mar 13 13:38:20 2024

Original Integration
1,4-Dioxane



Original Int. Results

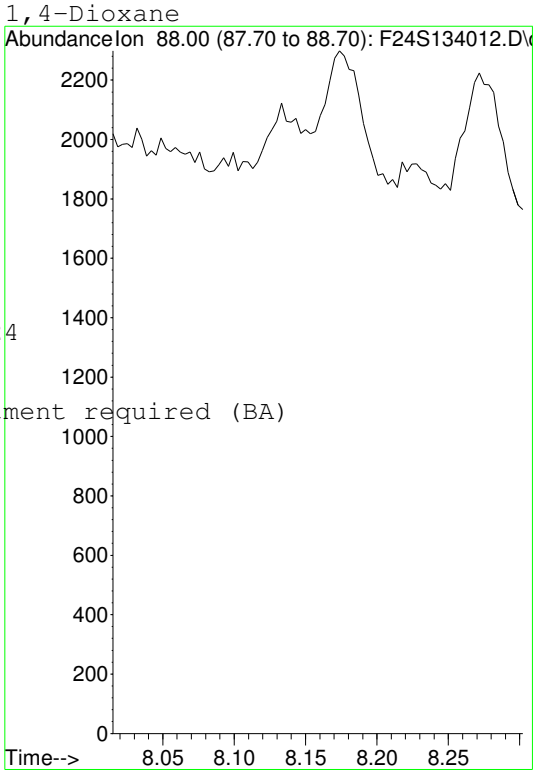
RT : 8.13
Area : 172
Amount: 0.0173478

Manual Int. Results

Tue May 14 07:54:16 2024

MIuser: GJB
Reason: Baseline adjustment required (BA)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1,4-Dioxane



1 - FORM I
ANALYSIS DATA SHEET

DUP

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-19	File ID:	F24S136005.D
Sampled:	05/08/24 15:45	Prepared:	05/10/24 18:53	Analyzed:	05/15/24 09:58
Solids:	69.57	Preparation:	SW-846 3546	Dilution:	1
Initial/Final:	20.4 g / 1 mL				
Batch:	B374074	Sequence:	S104550	Calibration:	2400298
				Instrument:	GCMSSV6

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
123-91-1	1,4-Dioxane		0.056	0.070	

Quantitation Report (QT Reviewed)

758

Data Path : C:\msdchem\1\data\F051524D\
Data File : F24S136005.D
Acq On : 15 May 2024 9:58 am
Operator : GJB
Sample : 24E1437-19 Inst : GCMSSV6
Misc :
ALS Vial : 5 Sample Multiplier: 1

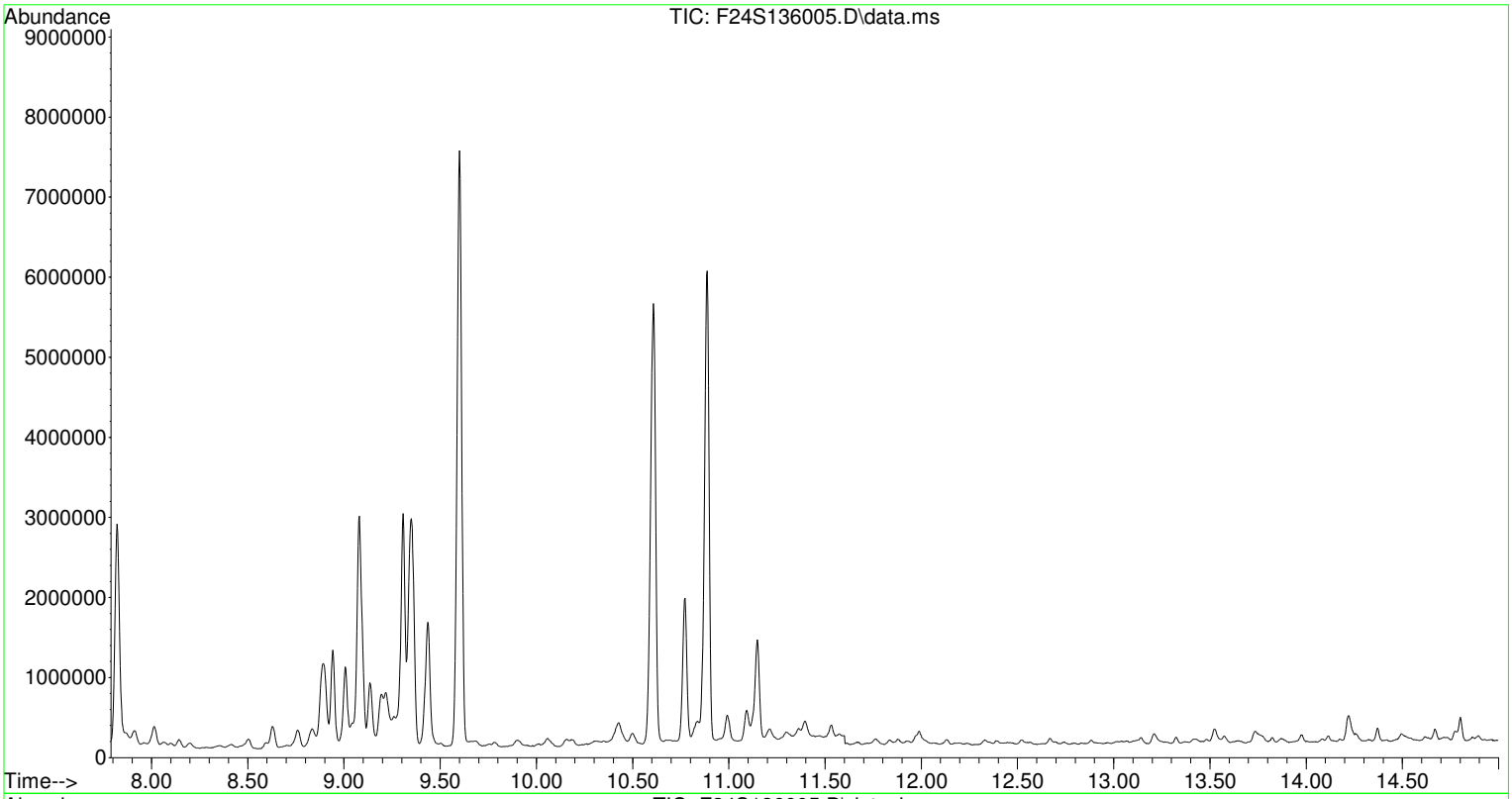
Quant Time: May 15 10:16:30 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324dioxB.M
Quant Title :
QLast Update : Wed Mar 13 13:38:20 2024
Response via : Initial Calibration

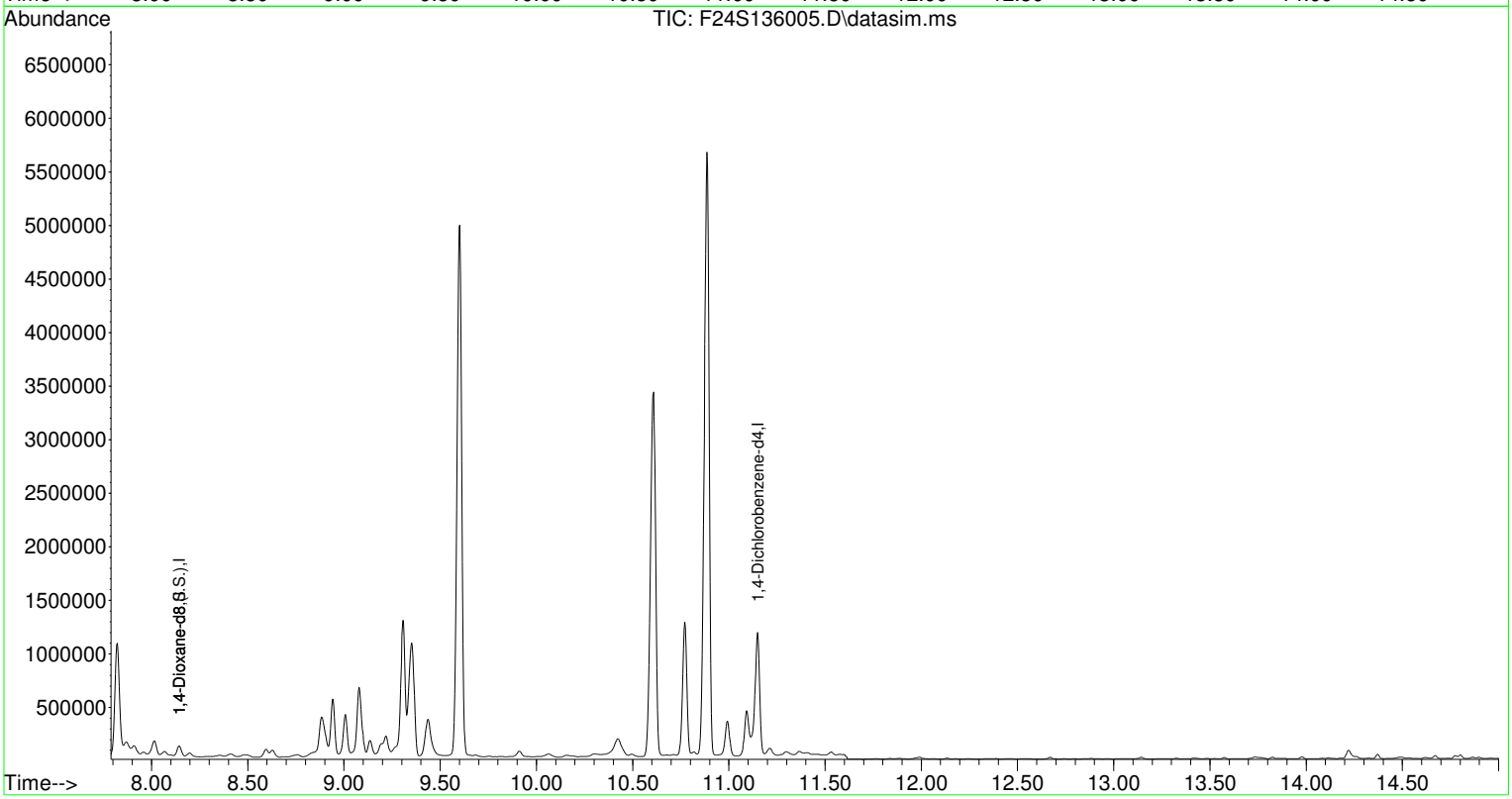
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	11.149	150	846376	10.000	ug/mL	-0.02
3) 1,4-Dioxane-d8 (I.S.)	8.143	96	75792m	10.000	ug/mL	0.07
System Monitoring Compounds						
2) 1,4-Dioxane-d8	8.143	96	75780m	2.907	ug/mL	0.07
Target Compounds						Qvalue
4) 1,4-Dioxane	0.000		0	N.D.	d	

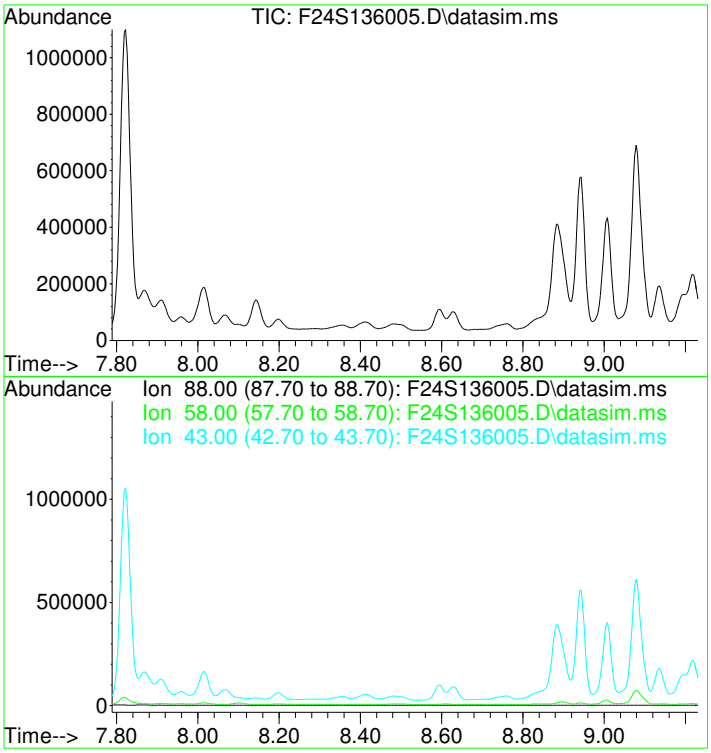
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\F051524D\
Data File : F24S136005.D
Acq On : 15 May 2024 9:58 am
Operator : GJB
Sample : 24E1437-19 Inst : GCMSSV6
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 15 10:16:30 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324dioxB.M
Quant Title :
QLast Update : Wed Mar 13 13:38:20 2024
Response via : Initial Calibration







#4
1,4-Dioxane
Concen: N.D.
Expected RT: 8.12 min

Lab File: F24S136005.D
Acq: 15 May 2024 9:58 am

Tgt Ion: 88

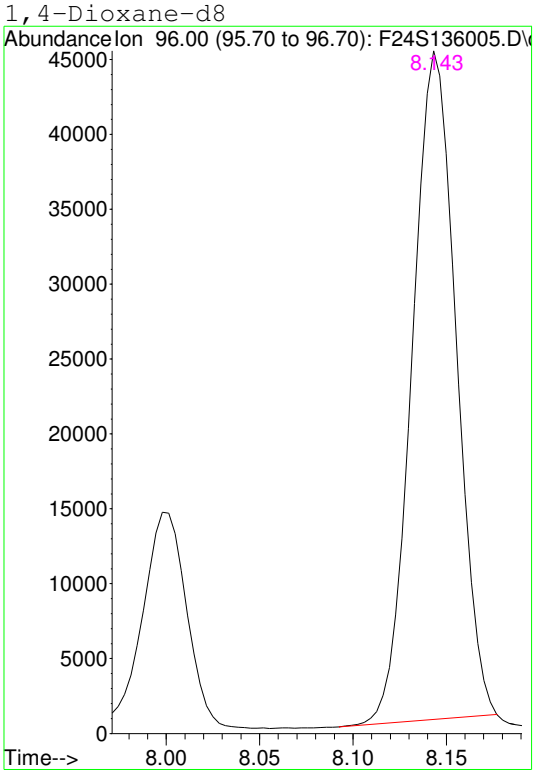
Sig	Exp Ratio
88	100
58	80.4
43	37.3

760

Data Path : C:\msdchem\1\data\F051524D\
Data File : F24S136005.D
Acq On : 15 May 2024 9:58 am
Operator : GJB
Sample : 24E1437-19
Misc :

Quant Time : Wed May 15 10:16:30 2024
Quant Method : C:\msdchem\1\methods\DQ031324dioxB.M
QLast Update : Wed Mar 13 13:38:20 2024

Original Integration
1,4-Dioxane-d8



Original Int. Results

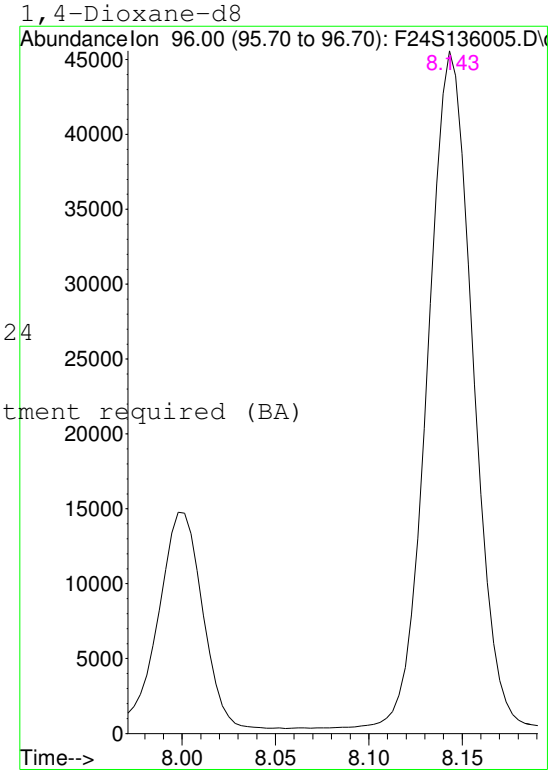
RT : 8.14
Area : 73301
Amount: 2.81147

Manual Int. Results

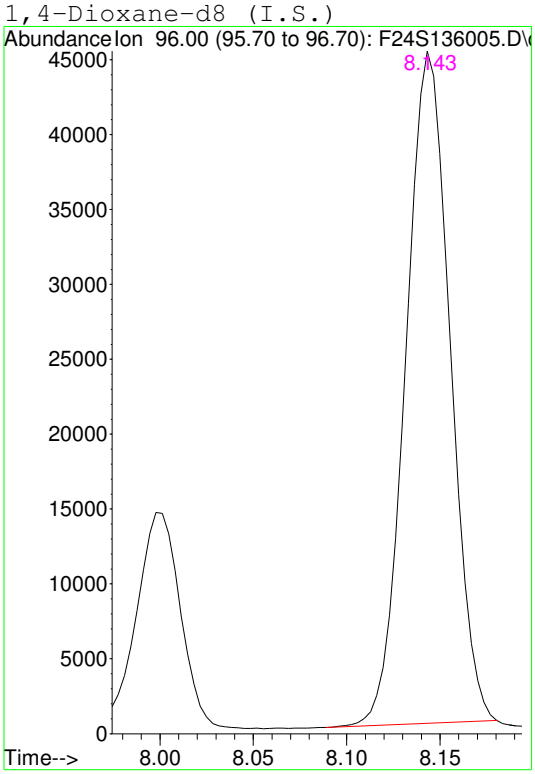
Wed May 15 10:16:15 2024

MIuser: GJB
Reason: Baseline adjustment required (BA)
RT : 8.14
Area : 75780
Amount: 2.90655

Manual Integration
1,4-Dioxane-d8



Original Integration
1,4-Dioxane-d8 (I.S.)



Original Int. Results

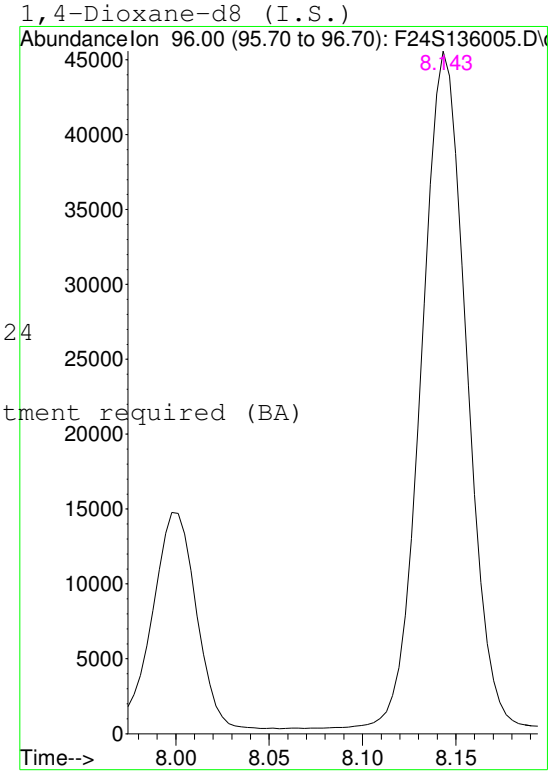
RT : 8.14
Area : 74333
Amount: 10

Manual Int. Results

Wed May 15 10:16:23 2024

MIuser: GJB
Reason: Baseline adjustment required (BA)
RT : 8.14
Area : 75792
Amount: 10

Manual Integration
1,4-Dioxane-d8 (I.S.)



QC DATA

2 - FORM II

SYSTEM MONITORING COMPOUND SUMMARY

SW-846 8270E

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Instrument:	GCMSSV6

	1,4-Dioxane-d8
24E1437-02	35.1
24E1437-04	34.3
24E1437-06	38.4
24E1437-12	33.0
24E1437-17	28.2
24E1437-19	29.1
B374074-BLK1	123*
B374074-BS1	50.8
B374074-BSD1	40.4
B374074-MS1	33.1
B374074-MSD1	36.0

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SB1A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Analysis:	SW-846 8270E
Batch:	B374074	Preparation:	SW-846 3546
% Solids:	72.51	Laboratory ID:	B374074-MS1
Initial/Final:	20.19 g / 1 mL	Sample Lab ID:	24E1437-06
Column:			

ANALYTE	SPIKE ADDED (mg/Kg dry)	SAMPLE CONCENTRATION (mg/Kg dry)	MS CONCENTRATION (mg/Kg dry)	MS % REC.	QC LIMITS REC.
1,4-Dioxane	0.683	ND	0.646	94.6	30 - 140

ANALYTE	SPIKE ADDED (mg/Kg dry)	MSD CONCENTRATION (mg/Kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
1,4-Dioxane	0.683	0.658	96.3	1.76	30	30 - 140

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

SW-846 8270E

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Preparation:	SW-846 3546
Batch:	B374074	Laboratory ID:	B374074-BS1
Column:		Initial/Final:	20.59 g / 1 mL

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCS CONCENTRATION (mg/Kg wet)	LCS % REC.	QC LIMITS REC.
1,4-Dioxane	0.486	0.456	94.0	40 - 140

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCSD CONCENTRATION (mg/Kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,4-Dioxane	0.484	0.507	105	10.6	30	40 - 140

4 - FORM IV
METHOD BLANK SUMMARY

SW-846 8270E

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Blank ID:	B374074-BLK1 Batch: B374074	Prepared:	05/10/2024 18:53

Client Sample ID	Laboratory Sample ID	Lab File ID	Time Analyzed
LCS	B374074-BS1	F24S134003.D	16:01
LCS Dup	B374074-BSD1	F24S134004.D	16:22
SB1A	24E1437-06	F24S134008.D	17:42
Matrix Spike	B374074-MS1	F24S134009.D	18:02
Matrix Spike Dup	B374074-MSD1	F24S134010.D	18:22
SB4A	24E1437-12	F24S134011.D	18:43
SB7	24E1437-17	F24S134012.D	19:02
CG-2	24E1437-02	F24S134013.D	19:23
B1A	24E1437-04	F24S134014.D	19:43
DUP	24E1437-19	F24S136005.D	09:58

5 - FORM V
INSTRUMENT PERFORMANCE CHECK

SW-846 8270E

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Lab File ID:	F24S072001.D	Injection Date:	03/12/24
Instrument ID:	GCMSSV6	Injection Time:	10:53
Sequence:	S101577	Lab Sample ID:	S101577-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
68	Less than 2% of 69	1.82	PASS
69	Base peak, 100% relative abundance	100	PASS
70	Less than 2% of 69	0.314	PASS
197	Less than 2% of 198	0.149	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.67	PASS
365	1 - 100% of 198	3.23	PASS
441	Less than 150% of 443	83.8	PASS
442	Base peak, 100% relative abundance	100	PASS
443	15 - 24% of 442	19.8	PASS

5 - FORM V
INSTRUMENT PERFORMANCE CHECK

SW-846 8270E

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Lab File ID:	F24S073001.D	Injection Date:	03/13/24
Instrument ID:	GCMSSV6	Injection Time:	09:55
Sequence:	S101577	Lab Sample ID:	S101577-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	PASS/FAIL
68	Less than 2% of 69	1.59	PASS
69	Base peak, 100% relative abundance	100	PASS
70	Less than 2% of 69	0.428	PASS
197	Less than 2% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.05	PASS
365	1 - 100% of 198	3.49	PASS
441	Less than 150% of 443	77.9	PASS
442	Base peak, 100% relative abundance	100	PASS
443	15 - 24% of 442	19.9	PASS

Client ID	Sample ID	File ID	Date Analyzed	Time Analyzed
DIOX 0.2	S101577-CAL1	F24S072004.D	03/12/2024	15:45:00
DIOX 1.0	S101577-CAL2	F24S072005.D	03/12/2024	16:07:00
DIOX 2.5	S101577-CAL3	F24S072006.D	03/12/2024	16:29:00
DIOX 5.0	S101577-CAL4	F24S072007.D	03/12/2024	16:50:00
DIOX 10	S101577-CAL5	F24S072008.D	03/12/2024	17:12:00
DIOX 25	S101577-CAL6	F24S072009.D	03/12/2024	17:33:00
DIOX 50	S101577-CAL7	F24S072010.D	03/12/2024	17:54:00
DIOX 100	S101577-CAL8	F24S072011.D	03/12/2024	18:15:00
DIOX D8 0.2	S101577-CAL9	F24S072012.D	03/12/2024	18:36:00
DIOX D8 1.0	S101577-CALA	F24S072013.D	03/12/2024	18:57:00
DIOX D8 2.5	S101577-CALB	F24S072014.D	03/12/2024	19:18:00
DIOX D8 5.0	S101577-CALC	F24S072015.D	03/12/2024	19:39:00
DIOX D8 100	S101577-CALG	F24S072019.D	03/12/2024	21:03:00
DIOX ICV 10 ug/mL	S101577-ICV1	F24S072020.D	03/12/2024	21:23:00
DIOX D8 10	S101577-CALD	F24S073007.D	03/13/2024	12:39:00
DIOX D8 25	S101577-CALE	F24S073008.D	03/13/2024	13:01:00
DIOX 28 50	S101577-CALF	F24S073009.D	03/13/2024	13:22:00

CALIBRATION DATA

6 - FORM VI
INITIAL CALIBRATION DATA SHEET

SW-846 8270E

Client: NYS Division of Environmental Remediation SDG: 24E1437

Project: Tivoli Memorial Park- CO 149634

Calibration: 2400298 Instrument: GCMSSV6

Calibration Date: 3/12/2024 12:00:45AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
1,4-Dioxane	0.2	1.473279	1	1.34037	2.5	1.113411	5	1.12439	10	1.061854	25	1.102921
1,4-Dioxane-d8												

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

SW-846 8270E

Client: NYS Division of Environmental Remediation SDG: 24E1437

Project: Tivoli Memorial Park- CO 149634

Calibration: 2400298 Instrument: GCMSSV6

Calibration Date: 3/12/2024 12:00:45AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
		RF		RF		RF		RF		RF		RF
1,4-Dioxane	50	1.085383	100	1.100334								
1,4-Dioxane-d8					0.2	0.3399631	1	0.3092501	2.5	0.3065536	5	0.3178931

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

SW-846 8270E

Client: NYS Division of Environmental Remediation SDG: 24E1437

Project: Tivoli Memorial Park- CO 149634

Calibration: 2400298 Instrument: GCMSSV6

Calibration Date: 3/12/2024 12:00:45AM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
		RF		RF		RF		RF		RF		RF
1,4-Dioxane												
1,4-Dioxane-d8	10	0.3144337	25	0.291799	50	0.2897119	100	0.2947526				

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

SW-846 8270E

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Calibration:	2400298	Instrument:	GCMSSV6
		Calibration Date:	3/12/2024 12:00:45AM

COMPOUND	Mean RF	RF RSD	Linear r^2	Quad COD	LIMIT	Q
1,4-Dioxane	1.175243	12.6			20	
1,4-Dioxane-d8	0.3080446	5.4			20	

INITIAL CALIBRATION STANDARDS

SW-846 8270E

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Sequence:	S101577	Instrument:	GCMSSV6
Calibration:	2400298		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
24A0762	1,4-Dioxane Tune - 25 ng/uL	S101577-TUN1	F24S072001.D	03/12/24 10:53
24C0385	1,4-Dioxane - 0.2 ug/mL	S101577-CAL1	F24S072004.D	03/12/24 15:45
24C0386	1,4-Dioxane - 1.0 ug/mL	S101577-CAL2	F24S072005.D	03/12/24 16:07
24C0387	1,4-Dioxane - 2.5 ug/mL	S101577-CAL3	F24S072006.D	03/12/24 16:29
24C0388	1,4-Dioxane - 5.0 ug/mL	S101577-CAL4	F24S072007.D	03/12/24 16:50
24C0356	1,4-Dioxane - 10 ug/mL	S101577-CAL5	F24S072008.D	03/12/24 17:12
24C0389	1,4-Dioxane - 25 ug/mL	S101577-CAL6	F24S072009.D	03/12/24 17:33
24C0390	1,4-Dioxane - 50 ug/mL	S101577-CAL7	F24S072010.D	03/12/24 17:54
24C0391	1,4-Dioxane - 100 ug/mL	S101577-CAL8	F24S072011.D	03/12/24 18:15
24C0392	1,4-Dioxane-d8 - 0.2 ug/mL	S101577-CAL9	F24S072012.D	03/12/24 18:36
24C0393	1,4-Dioxane-d8 - 1.0 ug/mL	S101577-CALA	F24S072013.D	03/12/24 18:57
24C0394	1,4-Dioxane-d8 - 2.5 ug/mL	S101577-CALB	F24S072014.D	03/12/24 19:18
24C0395	1,4-Dioxane-d8 - 5.0 ug/mL	S101577-CALC	F24S072015.D	03/12/24 19:39
24C0398	1,4-Dioxane-d8 - 100 ug/mL	S101577-CALG	F24S072019.D	03/12/24 21:03
24A0762	1,4-Dioxane Tune - 25 ng/uL	S101577-TUN2	F24S073001.D	03/13/24 09:55
24C0353	1,4-Dioxane-d8 - 10 ug/mL	S101577-CALD	F24S073007.D	03/13/24 12:39
24C0396	1,4-Dioxane-d8 - 25 ug/mL	S101577-CALE	F24S073008.D	03/13/24 13:01
24C0397	1,4-Dioxane-d8 - 50 ug/mL	S101577-CALF	F24S073009.D	03/13/24 13:22

C:\msdchem\1\data\F031224D\

Date	Filename	Lab ID	Sample Info
12 Mar 2024 10:53 am	F24S072001.D	DIOX TUNE	ST 23L0449 EX 042224
12 Mar 2024 11:22 am	F24S072002.D	DIOX 10 ug/mL	ST 23L0449 EX 042224
12 Mar 2024 11:44 am	F24S072003.D	DIOX D8 10 ug/mL	ST 24A0106 EX 042224
12 Mar 2024 3:45 pm	F24S072004.D	DIOX 0.2	
12 Mar 2024 4:07 pm	F24S072005.D	DIOX 1.0	
12 Mar 2024 4:29 pm	F24S072006.D	DIOX 2.5	
12 Mar 2024 4:50 pm	F24S072007.D	DIOX 5.0	
12 Mar 2024 5:12 pm	F24S072008.D	DIOX 10	
12 Mar 2024 5:33 pm	F24S072009.D	DIOX 25	
12 Mar 2024 5:54 pm	F24S072010.D	DIOX 50	
12 Mar 2024 6:15 pm	F24S072011.D	DIOX 100	
12 Mar 2024 6:36 pm	F24S072012.D	D8 0.2	
12 Mar 2024 6:57 pm	F24S072013.D	D8 1.0	
12 Mar 2024 7:18 pm	F24S072014.D	D8 2.5	
12 Mar 2024 7:39 pm	F24S072015.D	D8 5.0	
12 Mar 2024 8:00 pm	F24S072016.D	D8 10	
12 Mar 2024 8:21 pm	F24S072017.D	D8 25	
12 Mar 2024 8:42 pm	F24S072018.D	D8 50	
12 Mar 2024 9:03 pm	F24S072019.D	D8 100	
12 Mar 2024 9:23 pm	F24S072020.D	ICV	
12 Mar 2024 9:44 pm	F24S072021.D	B367571-SRM7	
12 Mar 2024 10:04 pm	F24S072022.D	B367571-SRM8	
12 Mar 2024 10:25 pm	F24S072023.D	B367571-SRM9	
12 Mar 2024 10:46 pm	F24S072024.D	B367571-SRMA	

DATA ANALYSIS PARAMETERS

Method Name: C:\msdchem\1\methods\DQ031324diox.M

Percent Report Settings

Sort By: Signal

Output Destination
Screen: No
Printer: No
File: No

Integration Events: Meth Default

Generate Report During Run Method: Yes

Signal Correlation Window: 0.020

Qualitative Report Settings

Peak Location of Unknown: Apex

Library to Search	Minimum Quality
C:\Database\NIST08.L	0

Integration Events: Meth Default

Report Type: Summary

Output Destination
Screen: No
Printer: No
File: No

Generate Report During Run Method: Yes

Quantitative Report Settings

Report Type: Detailed

Output Destination
Screen: No
Printer: No
File: No

Generate Report During Run Method: Yes

Calibration Last Updated: Wed Mar 13 07:46:51 2024

Reference Window: 2.00 Minutes
Non-Reference Window: 1.00 Minutes
Correlation Window: 0.10 minutes
Default Multiplier: 1.00
Default Sample Concentration: 0.00

Compound Information

---

1) 1,4-Dichlorobenzene-d4 (ISTD)

Ret. Time 11.257 min., Extract & Integrate from 11.157 to 11.357 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt -150.00			*** METH DEFAULT ***
Q1 152.00	64.30	30.0	*** METH DEFAULT ***
Q2 115.00	36.20	30.0	*** METH DEFAULT ***

Lvl ID	Conc (ug/mL)	Response
0.2	10.000	821854
1.0	10.000	840614
2.5	10.000	792814
5.0	10.000	829675
10	10.000	196465
25	10.000	348539
50	10.000	578631
100	10.000	773979

Qualifier Peak Analysis ON ISTD conc: 10.000 ug/mL
Curve Fit: Avg. RF

---

2) 1,4-Dioxane-d8 ( )

Ret. Time 8.052 min., Extract & Integrate from 7.923 to 8.233 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt -96.00			*** METH DEFAULT ***
Q1 64.00	72.70	30.0	*** METH DEFAULT ***
Q2 46.00	25.80	30.0	*** METH DEFAULT ***

Lvl ID	Conc (ug/mL)	Response
0.2	0.200	5588
1.0	1.000	25996
2.5	2.500	60760
5.0	5.000	131874
10	10.000	59244
25	25.000	253002
50	50.000	843654
100	100.000	2281323

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

---

3) 1,4-Dioxane-d8 (I.S.) (ISTD)

Ret. Time 8.083 min., Extract & Integrate from 7.983 to 8.262 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt -96.00			*** METH DEFAULT ***
Q1 64.00	73.20	30.0	*** METH DEFAULT ***
Q2 46.00	26.10	30.0	*** METH DEFAULT ***

Lvl ID	Conc (ug/mL)	Response
0.2	10.000	226264
1.0	10.000	220566

2.5	10.000	231742
5.0	10.000	257528
10	10.000	265724
25	10.000	258833
50	10.000	251696
100	10.000	229352

Qualifier Peak Analysis ON ISTD conc: 10.000 ug/mL
Curve Fit: Avg. RF

---

4) 1,4-Dioxane ( )

Ret. Time 8.127 min., Extract & Integrate from 8.027 to 8.311 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt -88.00			*** METH DEFAULT ***
Q1 58.00	71.50	30.0	*** METH DEFAULT ***
Q2 43.00	34.10	30.0	*** METH DEFAULT ***

Lvl ID	Conc (ug/mL)	Response
0.2	0.200	6667
1.0	1.000	29564
2.5	2.500	64506
5.0	5.000	144781
10	10.000	282160
25	25.000	713681
50	50.000	1365933
100	100.000	2523639

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

END OF DATA ANALYSIS PARAMETERS

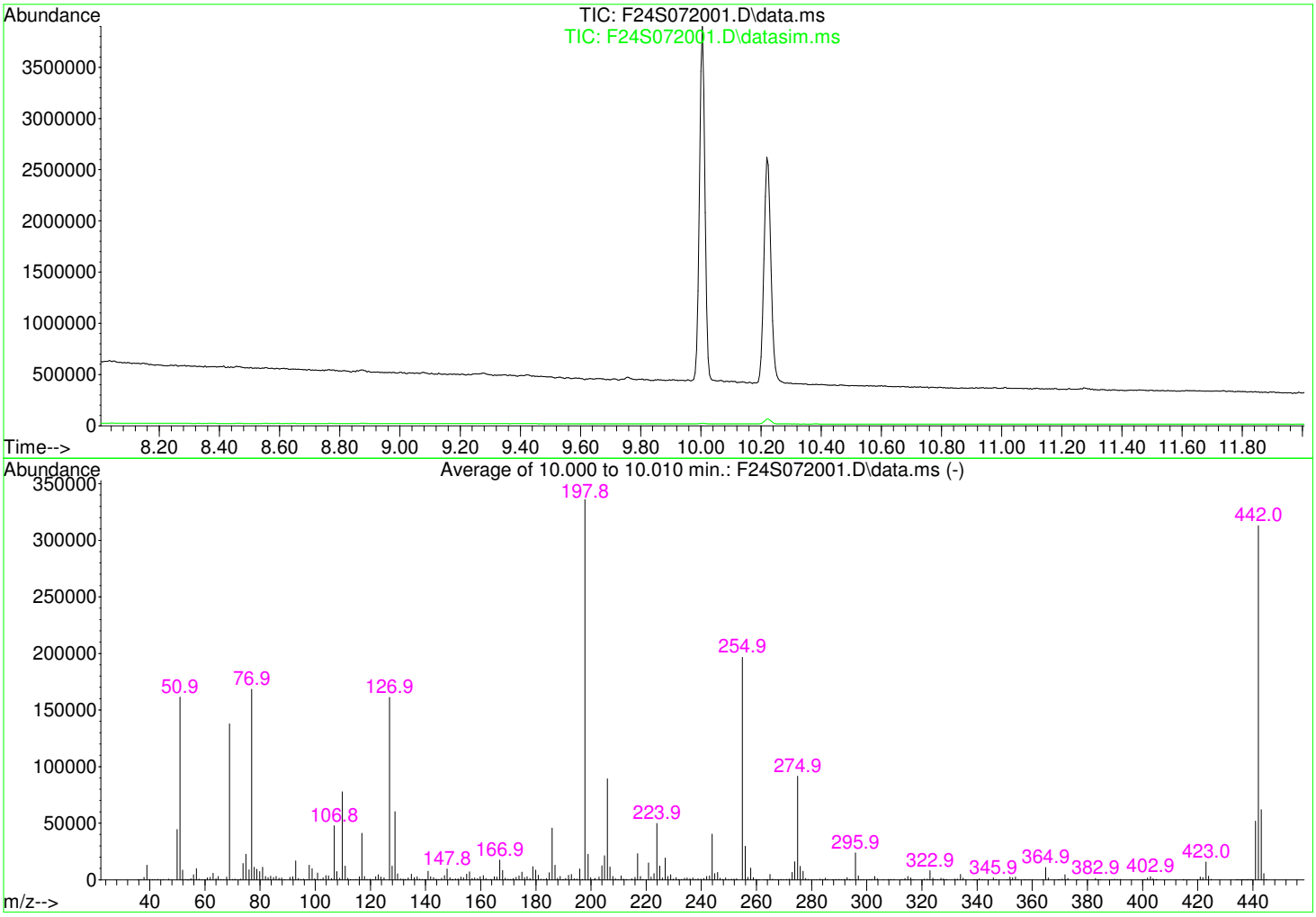
Wed Mar 13 08:34:27 2024

Data Path : C:\msdchem\1\data\F031224D\
Data File : F24S072001.D
Acq On : 12 Mar 2024 10:53 am
Operator : GJB
Sample : DIOX TUNE Inst : GCMSSV6
Misc : ST 23L0449 EX 042224
ALS Vial : 1 Sample Multiplier: 1

777

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p

Method : C:\msdchem\1\methods\8270E.M
Title : 8270D DFTPP
Last Update : Sat May 12 12:37:13 2012

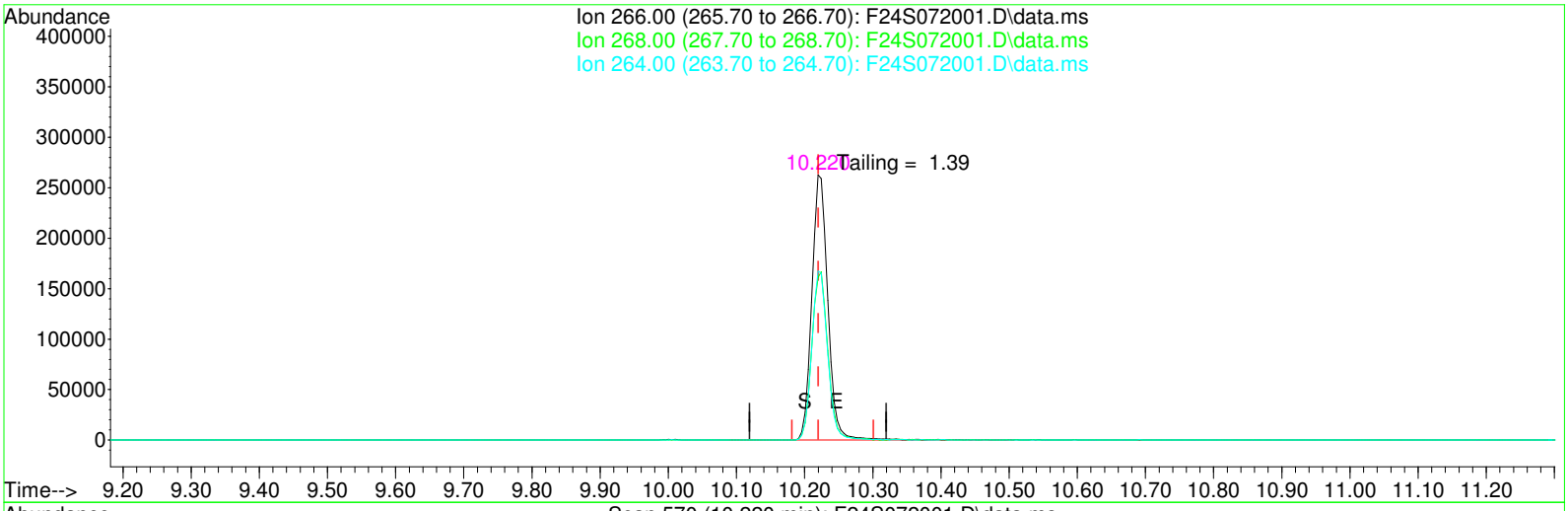


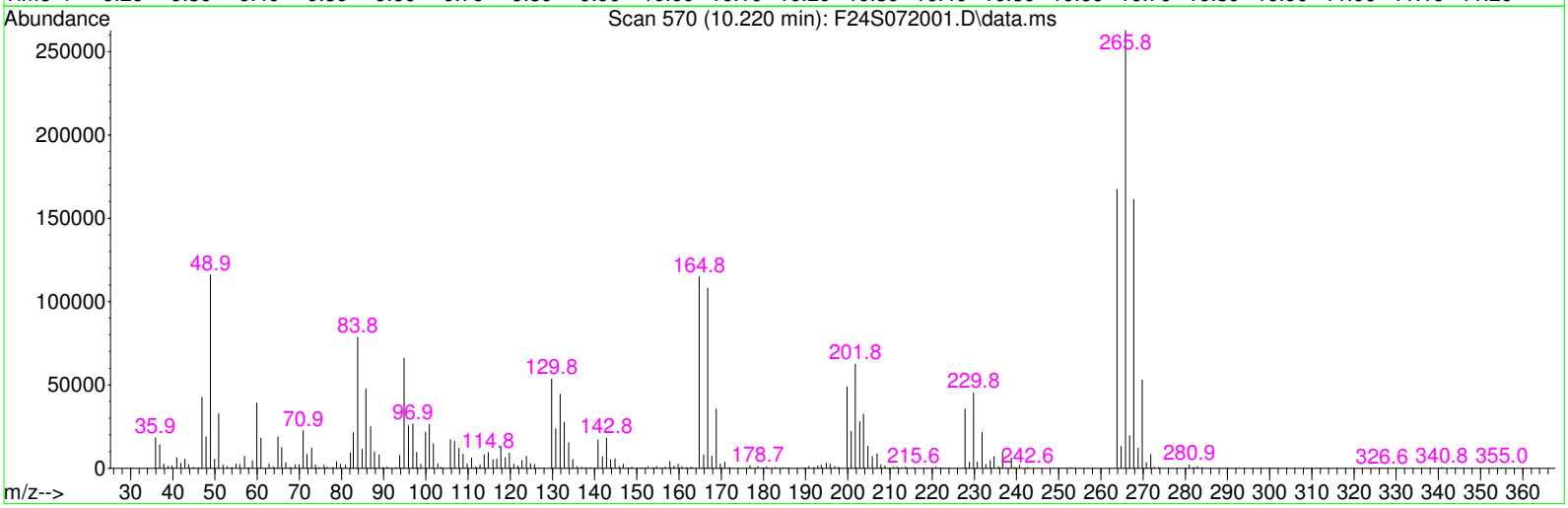
AutoFind: Scans 524, 525, 526; Background Corrected with Scan 513

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.8	2513	PASS
69	69	100	100	100.0	137743	PASS
70	69	0.00	2	0.3	432	PASS
197	198	0.00	2	0.1	501	PASS
198	198	100	100	100.0	336122	PASS
199	198	5	9	6.7	22429	PASS
365	198	1	100	3.2	10868	PASS
441	443	0.01	150	83.8	51899	PASS
442	198	0.01	100	93.1	312853	PASS
443	442	15	24	19.8	61928	PASS

Data Path : C:\msdchem\1\data\F031224D\
Data File : F24S072001.D
Acq On : 12 Mar 2024 10:53 am
Operator : GJB
Sample : DIOX TUNE Inst : GCMSSV6
Misc : ST 23L0449 EX 042224
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 13 08:27:13 2024
DataAcq Meth:DT122215.M
Quant Method : C:\msdchem\1\methods\8270E.M
Quant Title : 8270D DFTPP
QLast Update : Wed Mar 13 08:27:10 2024
Response via : Initial Calibration





TIC: F24S072001.D\data.ms

(1) Pentachlorophenol

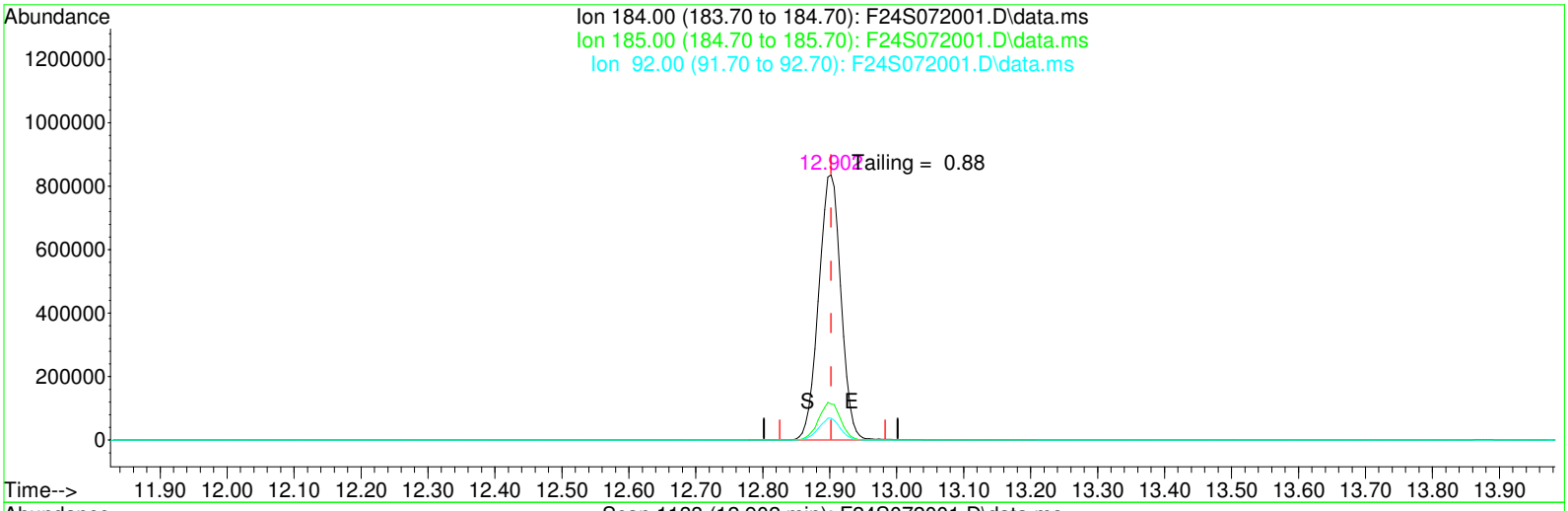
10.220min (0.000) 0.000 ng/uL

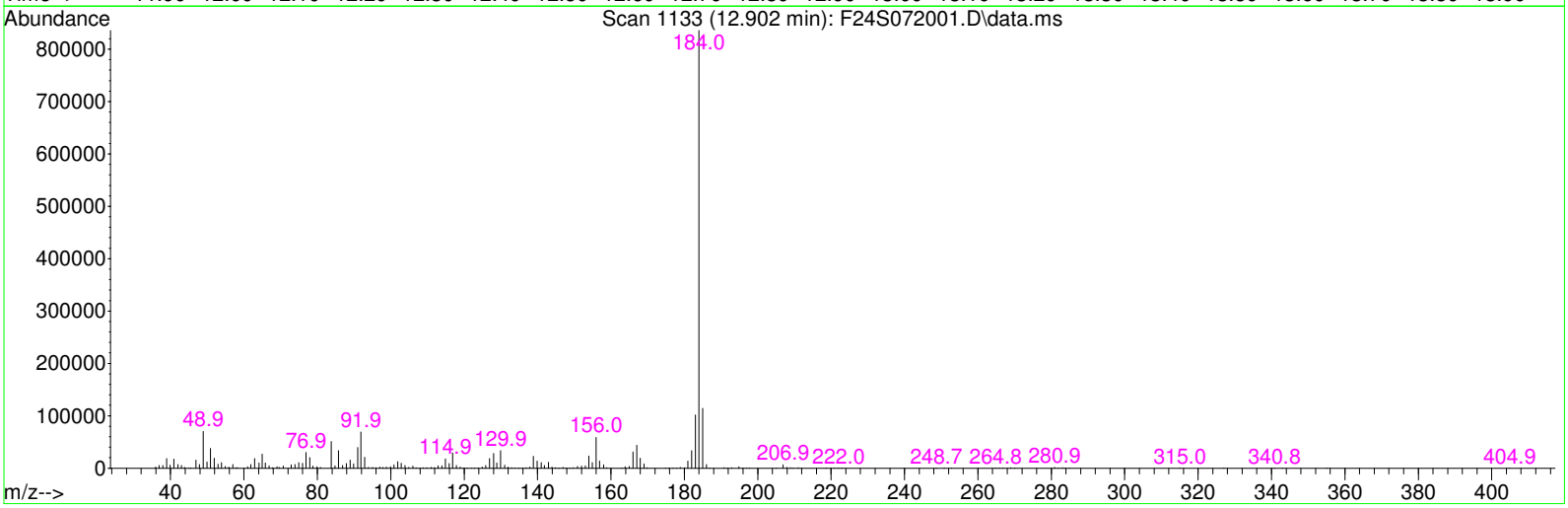
response 426181

Ion	Exp%	Act%
266.00	100.00	100.00
268.00	61.40	64.10
264.00	63.70	63.27
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\F031224D\
Data File : F24S072001.D
Acq On : 12 Mar 2024 10:53 am
Operator : GJB
Sample : DIOX TUNE Inst : GCMSSV6
Misc : ST 23L0449 EX 042224
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 13 08:27:13 2024
DataAcq Meth:DT122215.M
Quant Method : C:\msdchem\1\methods\8270E.M
Quant Title : 8270D DFTPP
QLast Update : Wed Mar 13 08:27:10 2024
Response via : Initial Calibration





TIC: F24S072001.D\data.ms

(3) Benzidine

12.902min (0.000) 0.000 ng/uL

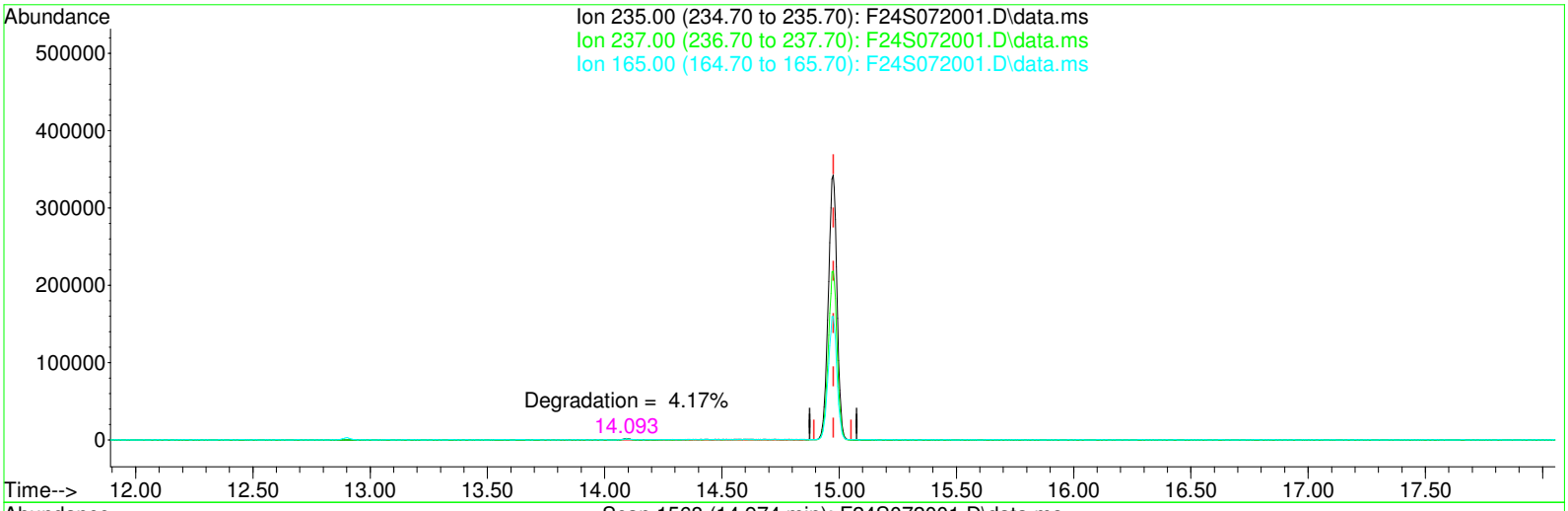
response 1937848

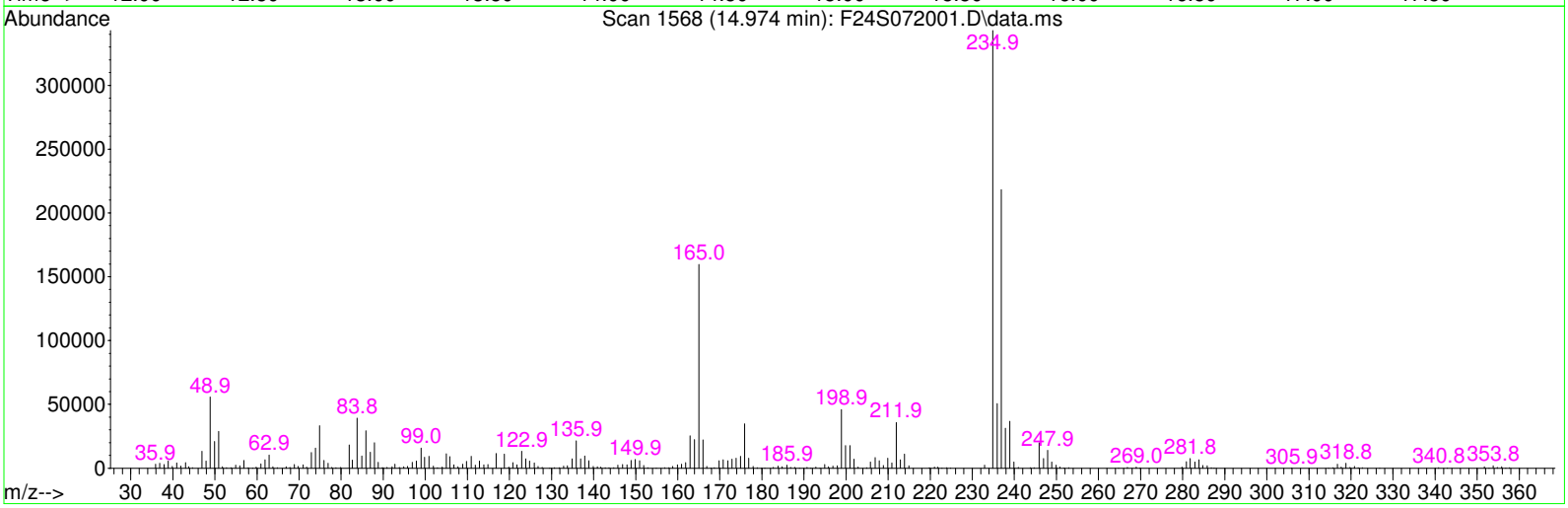
Ion	Exp%	Act%
184.00	100.00	100.00
185.00	13.70	13.99
92.00	8.30	8.09
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\F031224D\
Data File : F24S072001.D
Acq On : 12 Mar 2024 10:53 am
Operator : GJB
Sample : DIOX TUNE Inst : GCMSSV6
Misc : ST 23L0449 EX 042224
ALS Vial : 1 Sample Multiplier: 1

780

Quant Time: Mar 13 08:27:13 2024
DataAcq Meth:DT122215.M
Quant Method : C:\msdchem\1\methods\8270E.M
Quant Title : 8270D DFTPP
QLast Update : Wed Mar 13 08:27:10 2024
Response via : Initial Calibration





TIC: F24S072001.D\data.ms

(4) DDT

14.974min (0.000) 0.000 ng/uL

response 884607

Ion	Exp%	Act%
235.00	100.00	100.00
237.00	63.70	64.27
165.00	46.50	46.47
0.00	0.00	0.00

Response Factor Report GCMSSV6

Method Path : C:\msdchem\1\methods\
Method File : DQ031324diox.M
Title :
Last Update : Wed Mar 13 07:41:28 2024
Response Via : Initial Calibration

Calibration Files
0.2 =F24S072012.D 1.0 =F24S072013.D 2.5 =F24S072014.D 5.0 =F24S072015.D 10 =F24S072016.D 25 =F24S072017.D
50 =F24S072018.D 100 =F24S072019.D

	Compound	0.2	1.0	2.5	5.0	10	25	50	100	Avg	%RSD
1) I	1,4-Dichlorobenzen...	ISTD									
2) S	1,4-Dioxane-d8	0.340	0.309	0.307	0.318	0.302	0.290	0.292	0.295	0.306	5.38
3) I	1,4-Dioxane-d8 (I.S.)	ISTD									
4) T	1,4-Dioxane	1.473	1.340	1.113	1.124	1.062	1.103	1.085	1.100	1.175	12.63

(#) = Out of Range

781

Quantitation Report (QT Reviewed)

782

Data Path : C:\msdchem\1\data\F031224D\
Data File : F24S072004.D
Acq On : 12 Mar 2024 3:45 pm
Operator : GJB
Sample : DIOX 0.2 Inst : GCMSSV6
Misc :
ALS Vial : 4 Sample Multiplier: 1

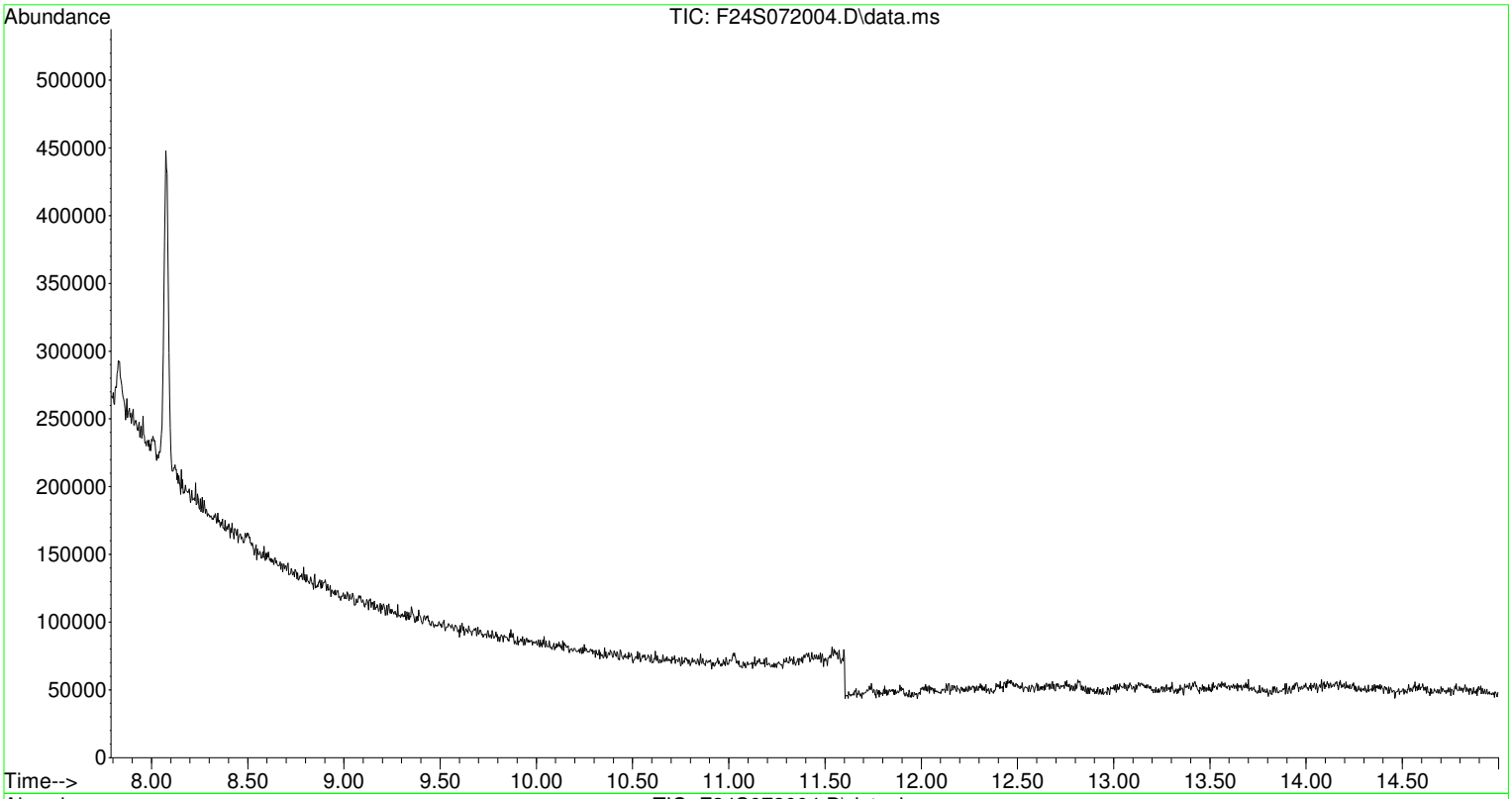
Quant Time: Mar 13 07:32:35 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324diox.M
Quant Title :
QLast Update : Thu Oct 26 10:08:18 2023
Response via : Initial Calibration

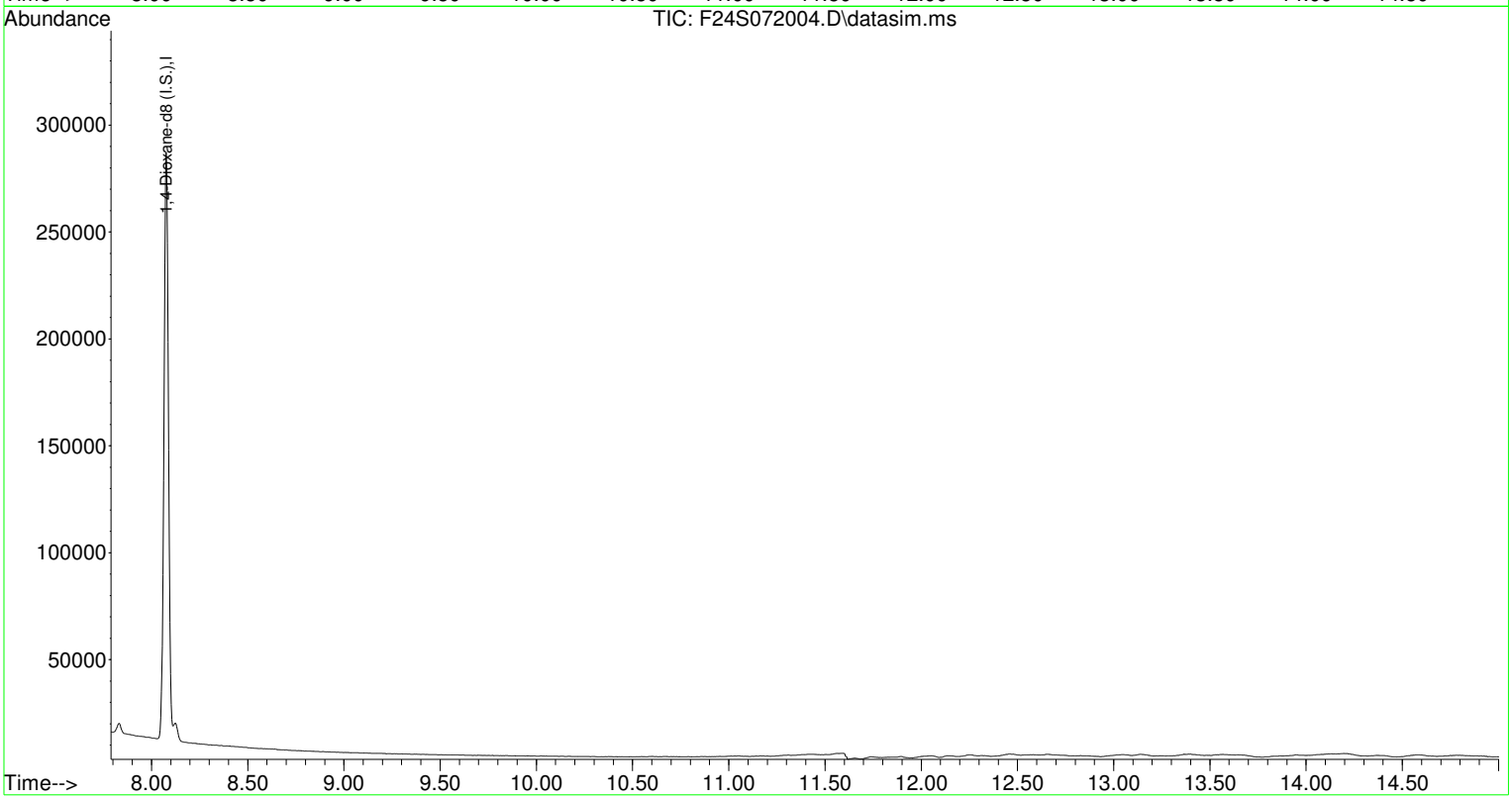
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	0.000	150	0m	10.000	ug/mL	-11.26
3) 1,4-Dioxane-d8 (I.S.)	8.076	96	226264	10.000	ug/mL	0.00
System Monitoring Compounds						
2) 1,4-Dioxane-d8	0.000	96	0d	0.000	ug/mL	
Target Compounds						Qvalue
4) 1,4-Dioxane	8.123	88	6667	No Calib		

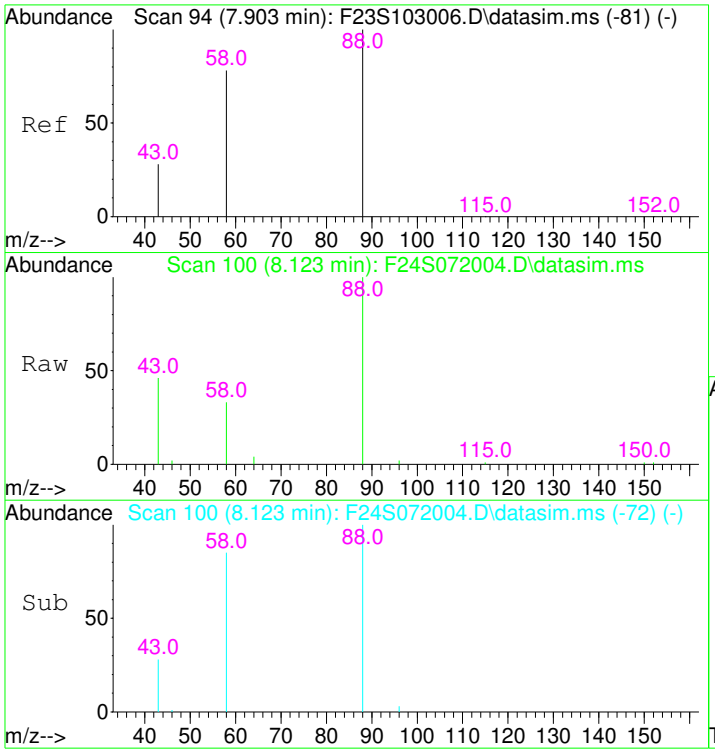
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\F031224D\
Data File : F24S072004.D
Acq On : 12 Mar 2024 3:45 pm
Operator : GJB
Sample : DIOX 0.2 Inst : GCMSSV6
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 13 07:32:35 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324diox.M
Quant Title :
QLast Update : Thu Oct 26 10:08:18 2023
Response via : Initial Calibration



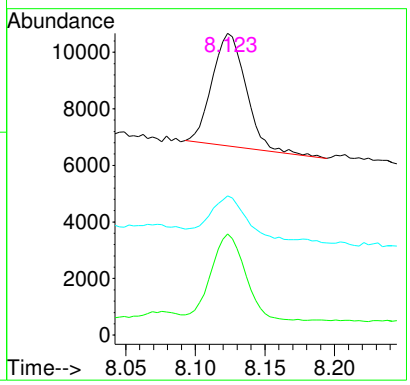




#4
1,4-Dioxane
Concen: N.D.
RT: 8.123 min Scan# 100
Delta R.T. -0.004 min
Lab File: F24S072004.D
Acq: 12 Mar 2024 3:45 pm

Tgt Ion: 88 Resp: 6667

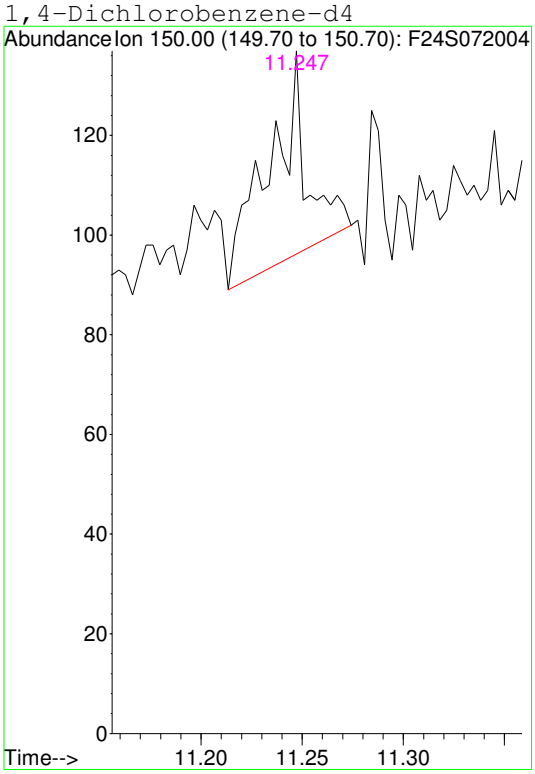
Ion	Ratio	Lower	Upper
88	100		
58	71.3	50.0	93.0
43	28.4	23.9	44.3



Data Path : C:\msdchem\1\data\F031224D\
Data File : F24S072004.D
Acq On : 12 Mar 2024 3:45 pm
Operator : GJB
Sample : DIOX 0.2
Misc :

Quant Time : Wed Mar 13 07:32:35 2024
Quant Method : C:\msdchem\1\methods\DQ031324diox.M
QLast Update : Thu Oct 26 10:08:18 2023

Original Integration
1,4-Dichlorobenzene-d4



Original Int. Results

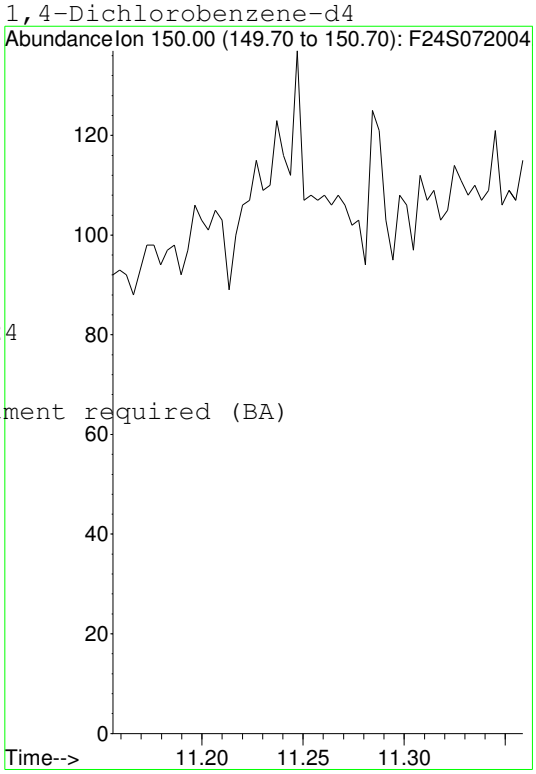
RT : 11.25
Area : 54
Amount: 10

Manual Int. Results

Wed Mar 13 07:32:33 2024

MIuser: GJB
Reason: Baseline adjustment required (BA)
RT : 0.00
Area : 0
Amount: 10

Manual Integration
1,4-Dichlorobenzene-d4



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\F031224D\
Data File : F24S072005.D
Acq On : 12 Mar 2024 4:07 pm
Operator : GJB
Sample : DIOX 1.0 Inst : GCMSSV6
Misc :
ALS Vial : 5 Sample Multiplier: 1

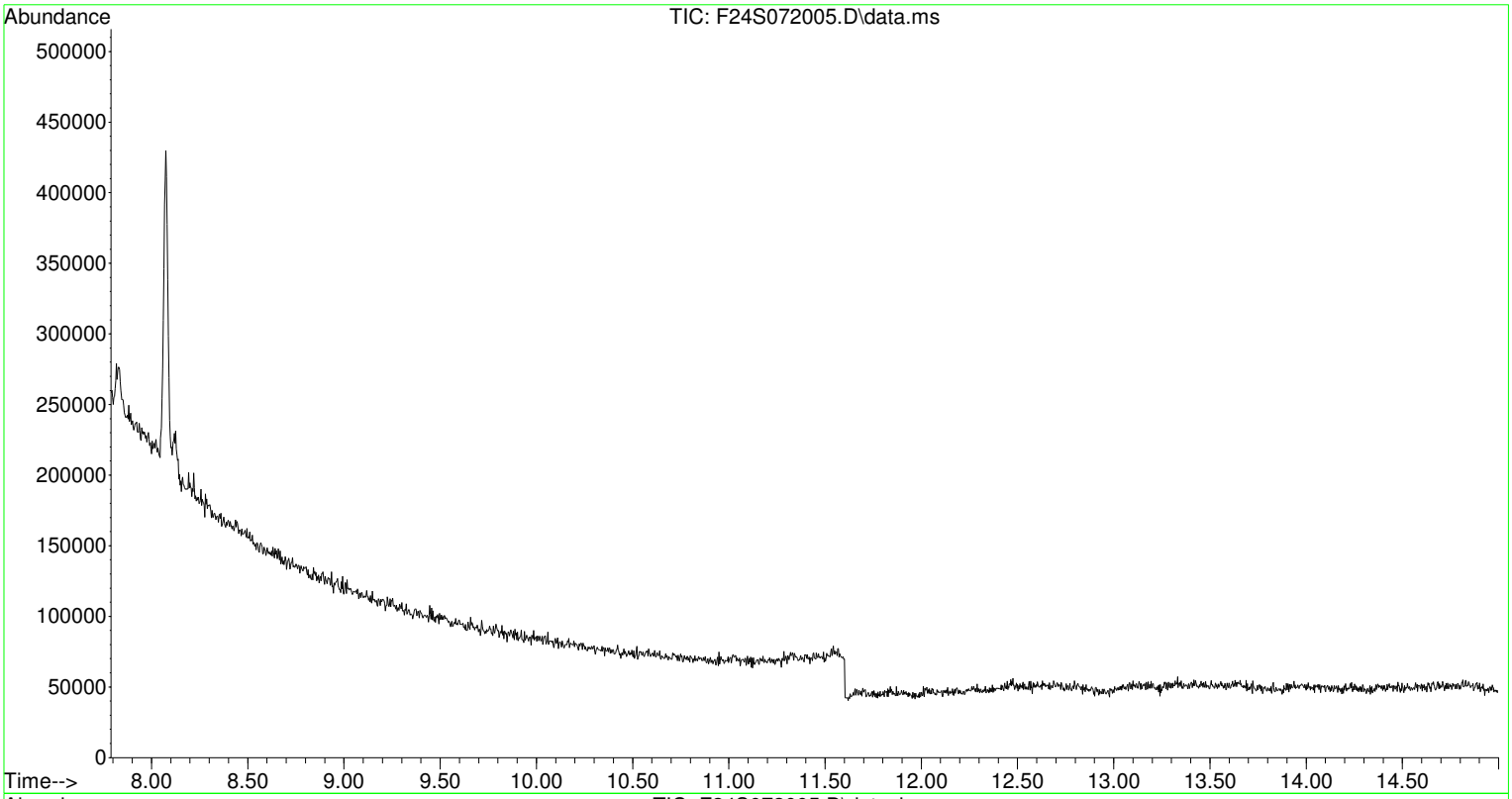
Quant Time: Mar 13 07:33:53 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324diox.M
Quant Title :
QLast Update : Thu Oct 26 10:08:18 2023
Response via : Initial Calibration

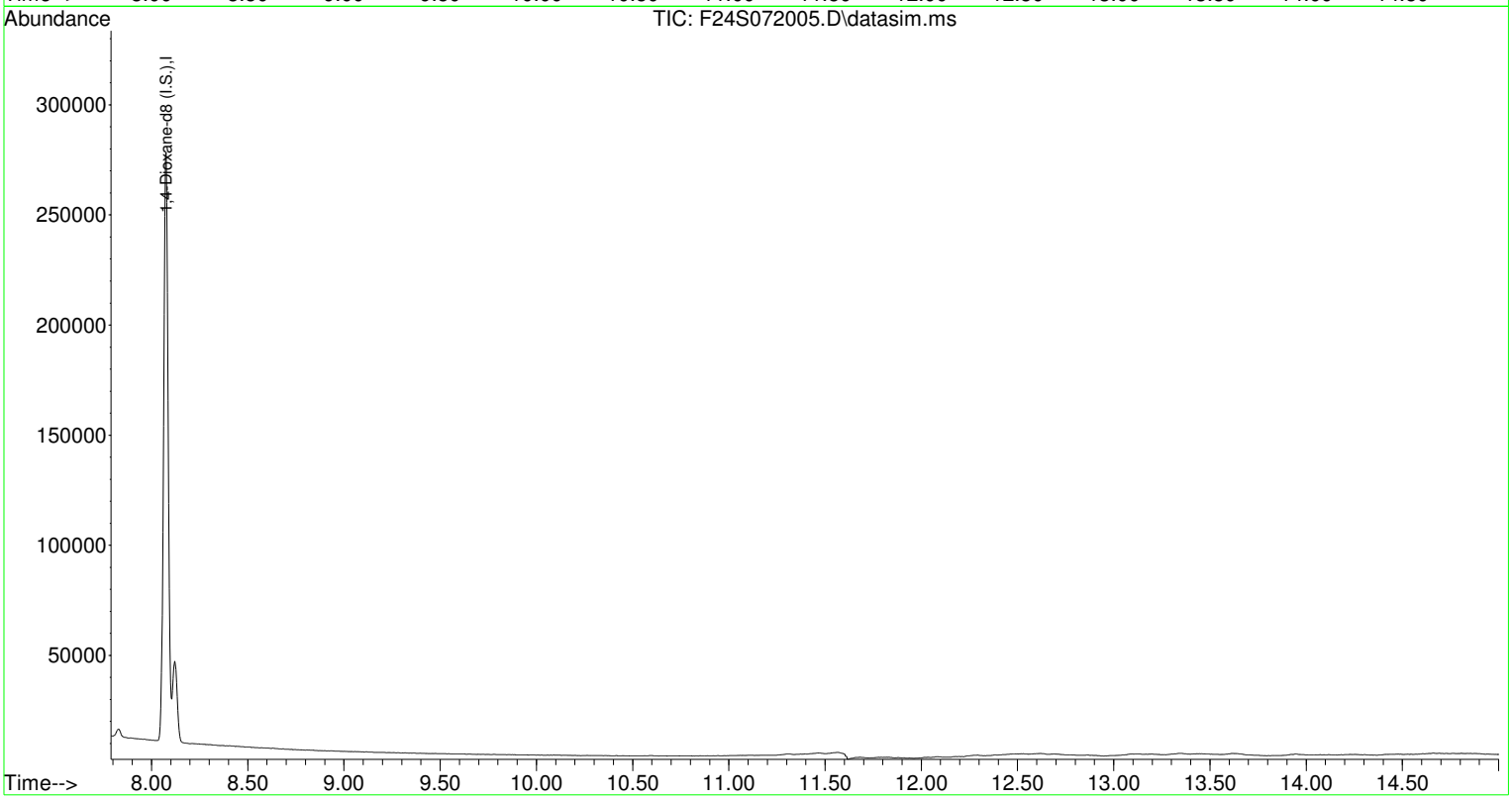
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	0.000	150	0m	10.000	ug/mL	-11.26
3) 1,4-Dioxane-d8 (I.S.)	8.075	96	220566	10.000	ug/mL	0.00
System Monitoring Compounds						
2) 1,4-Dioxane-d8	0.000	96	0d	0.000	ug/mL	
Target Compounds						Qvalue
4) 1,4-Dioxane	8.119	88	29564	No Calib		

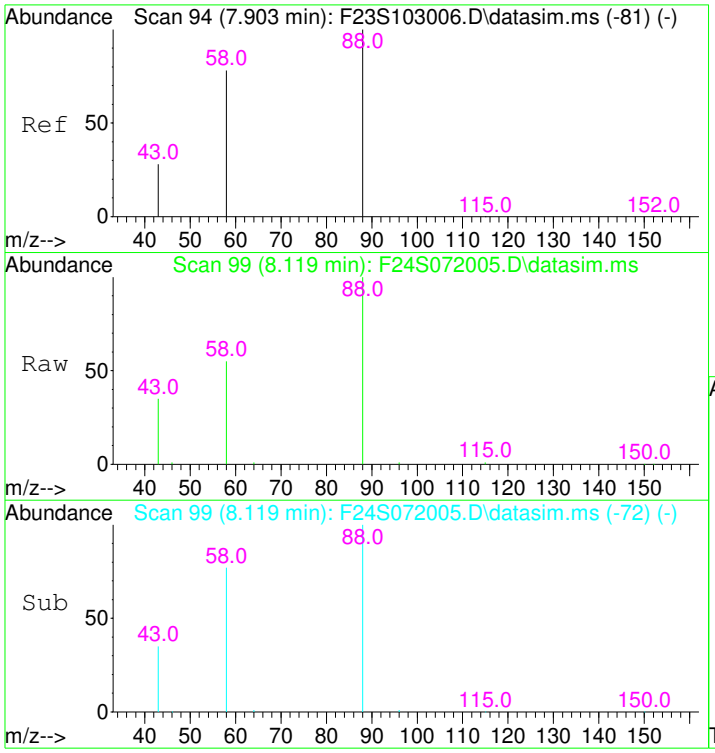
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\F031224D\
Data File : F24S072005.D
Acq On : 12 Mar 2024 4:07 pm
Operator : GJB
Sample : DIOX 1.0 Inst : GCMSSV6
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 13 07:33:53 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324diox.M
Quant Title :
QLast Update : Thu Oct 26 10:08:18 2023
Response via : Initial Calibration



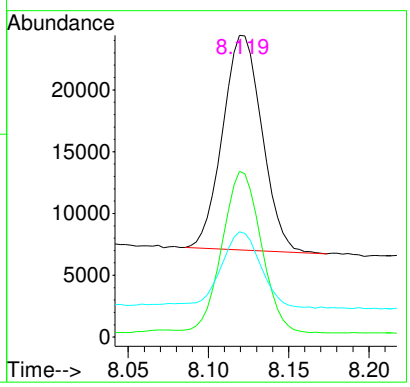




#4
1,4-Dioxane
Concen: N.D.
RT: 8.119 min Scan# 99
Delta R.T. -0.008 min
Lab File: F24S072005.D
Acq: 12 Mar 2024 4:07 pm

Tgt Ion: 88 Resp: 29564

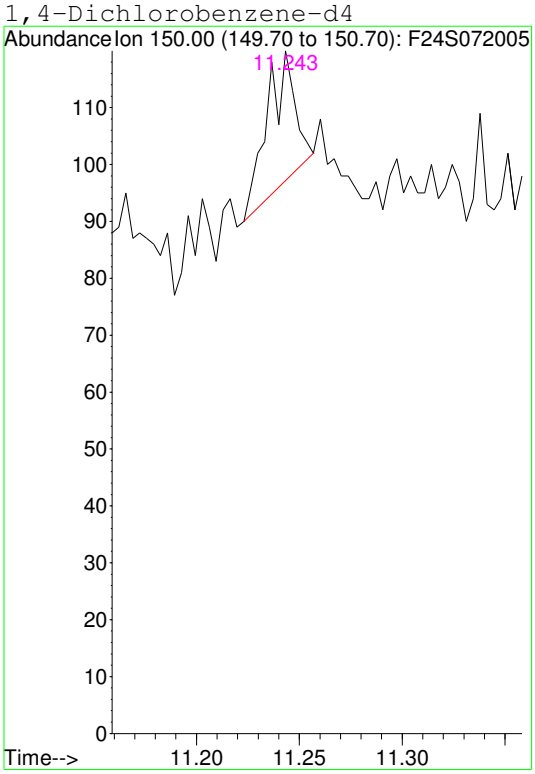
Ion	Ratio	Lower	Upper
88	100		
58	73.1	50.0	93.0
43	33.0	23.9	44.3



Data Path : C:\msdchem\1\data\F031224D\
Data File : F24S072005.D
Acq On : 12 Mar 2024 4:07 pm
Operator : GJB
Sample : DIOX 1.0
Misc :

Quant Time : Wed Mar 13 07:33:53 2024
Quant Method : C:\msdchem\1\methods\DQ031324diox.M
QLast Update : Thu Oct 26 10:08:18 2023

Original Integration
1,4-Dichlorobenzene-d4



Original Int. Results

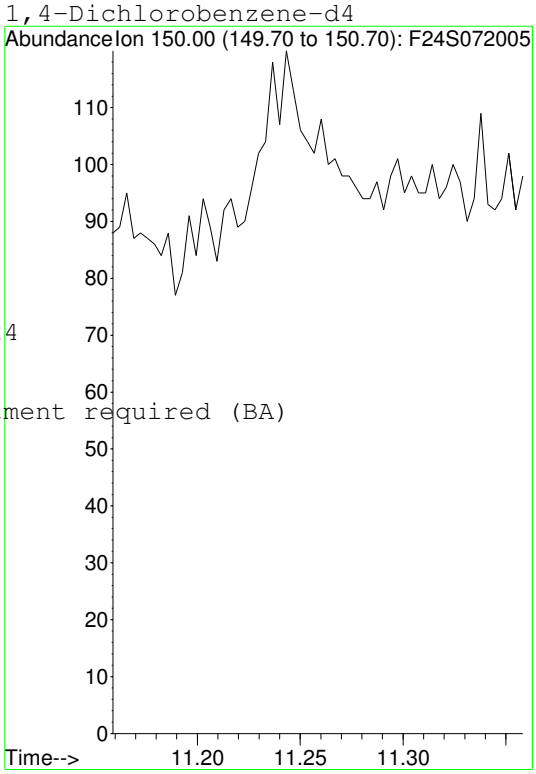
RT : 11.24
Area : 23
Amount: 10

Manual Int. Results

Wed Mar 13 07:33:51 2024

MIuser: GJB
Reason: Baseline adjustment required (BA)
RT : 0.00
Area : 0
Amount: 10

Manual Integration
1,4-Dichlorobenzene-d4



Quantitation Report (QT Reviewed)

790

Data Path : C:\msdchem\1\data\F031224D\
Data File : F24S072006.D
Acq On : 12 Mar 2024 4:29 pm
Operator : GJB
Sample : DIOX 2.5 Inst : GCMSSV6
Misc :
ALS Vial : 6 Sample Multiplier: 1

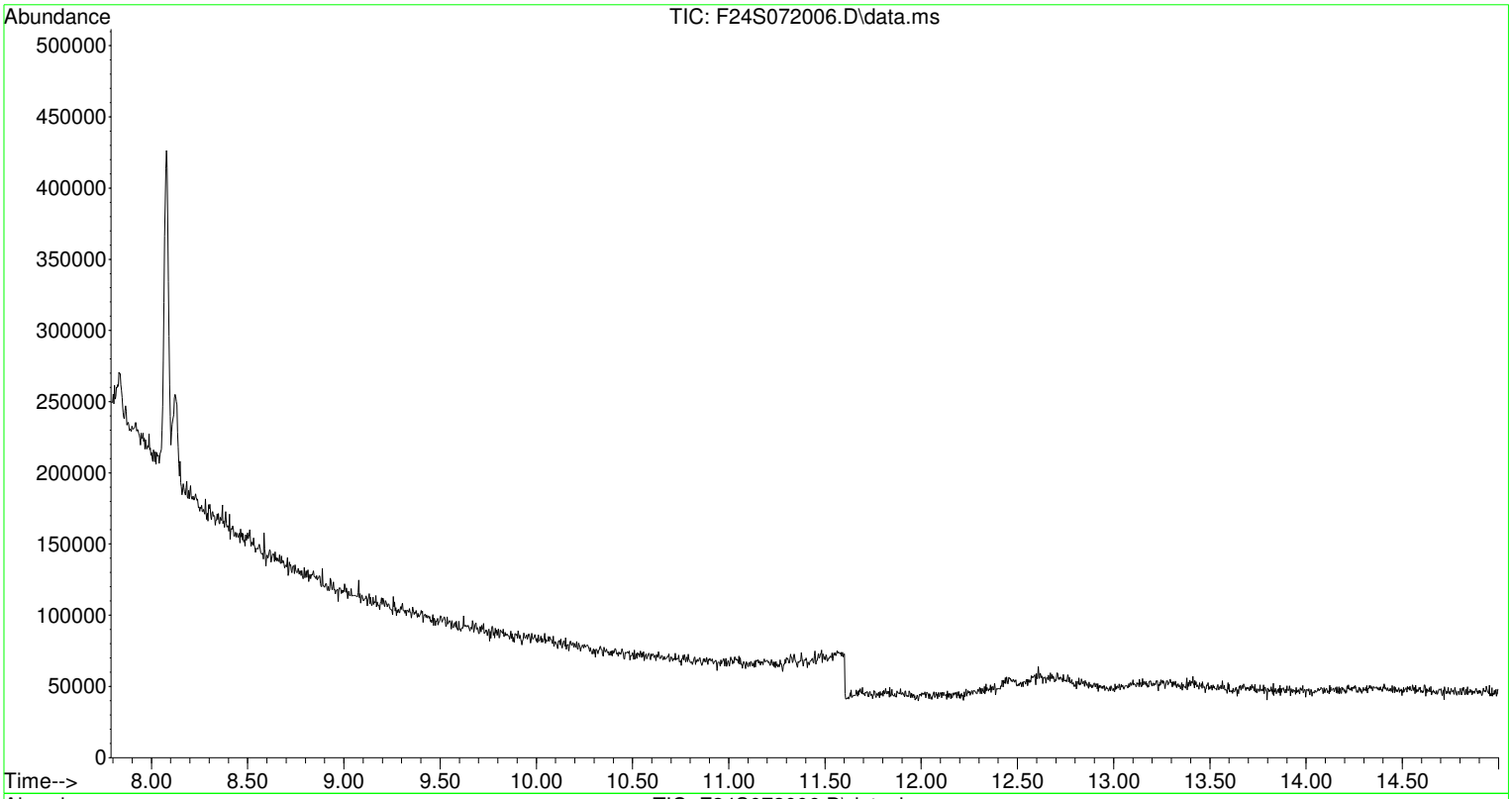
Quant Time: Mar 13 07:34:14 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324diox.M
Quant Title :
QLast Update : Thu Oct 26 10:08:18 2023
Response via : Initial Calibration

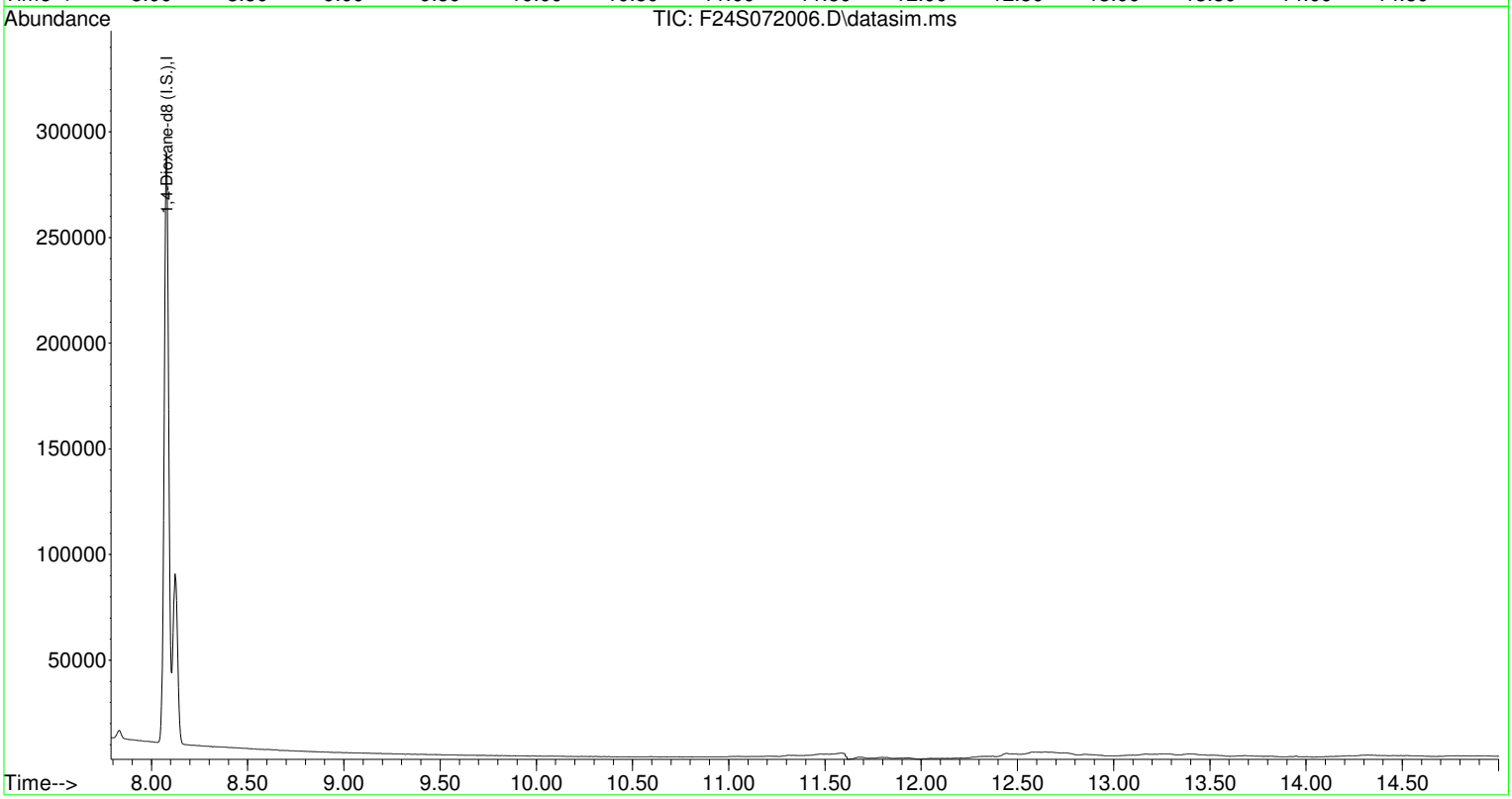
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	0.000	150	0m	10.000	ug/mL	-11.26
3) 1,4-Dioxane-d8 (I.S.)	8.079	96	231742	10.000	ug/mL	0.00
System Monitoring Compounds						
2) 1,4-Dioxane-d8	0.000	96	0d	0.000	ug/mL	
Target Compounds						Qvalue
4) 1,4-Dioxane	8.123	88	64506	No Calib		

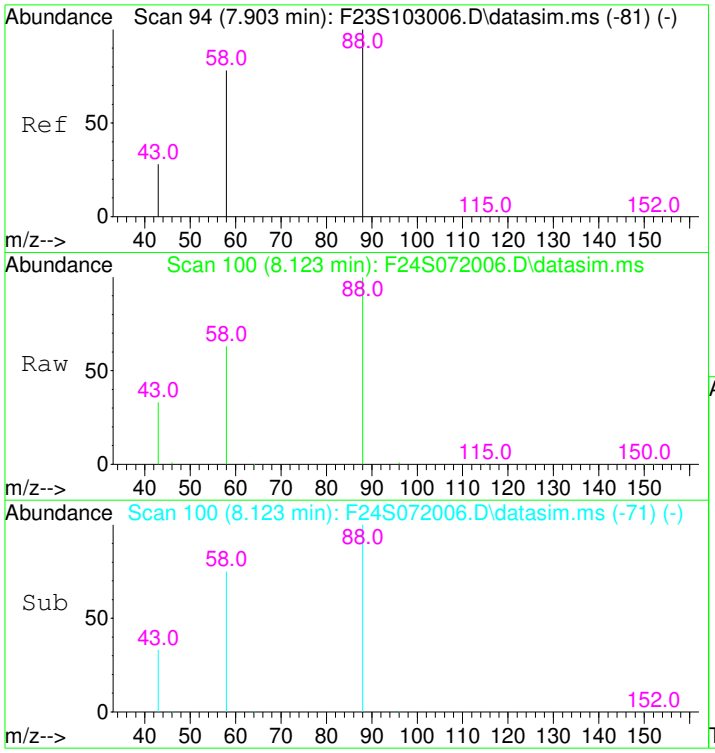
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\F031224D\
Data File : F24S072006.D
Acq On : 12 Mar 2024 4:29 pm
Operator : GJB
Sample : DIOX 2.5 Inst : GCMSSV6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 13 07:34:14 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324diox.M
Quant Title :
QLast Update : Thu Oct 26 10:08:18 2023
Response via : Initial Calibration



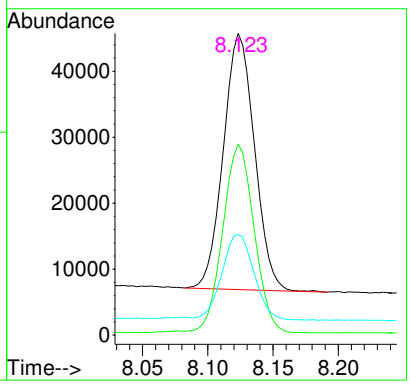




#4
1,4-Dioxane
Concen: N.D.
RT: 8.123 min Scan# 100
Delta R.T. -0.004 min
Lab File: F24S072006.D
Acq: 12 Mar 2024 4:29 pm

Tgt Ion: 88 Resp: 64506

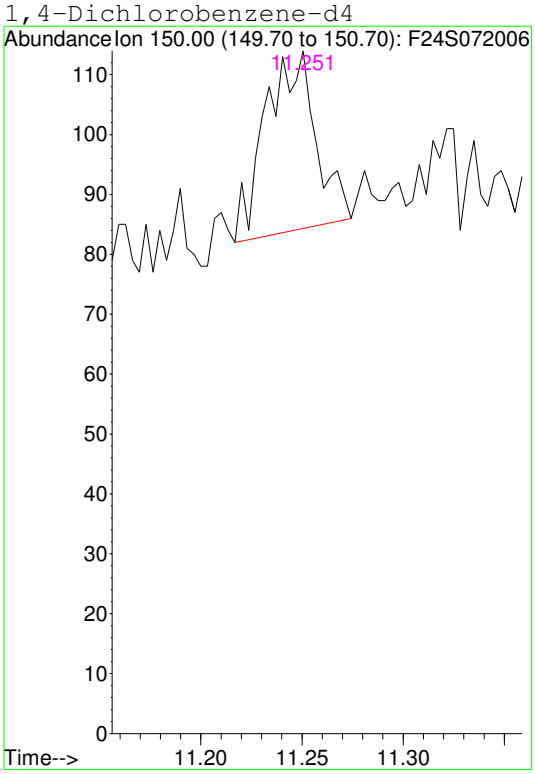
Ion	Ratio	Lower	Upper
88	100		
58	72.9	50.0	93.0
43	33.2	23.9	44.3



Data Path : C:\msdchem\1\data\F031224D\
Data File : F24S072006.D
Acq On : 12 Mar 2024 4:29 pm
Operator : GJB
Sample : DIOX 2.5
Misc :

Quant Time : Wed Mar 13 07:34:14 2024
Quant Method : C:\msdchem\1\methods\DQ031324diox.M
QLast Update : Thu Oct 26 10:08:18 2023

Original Integration
1,4-Dichlorobenzene-d4



Original Int. Results

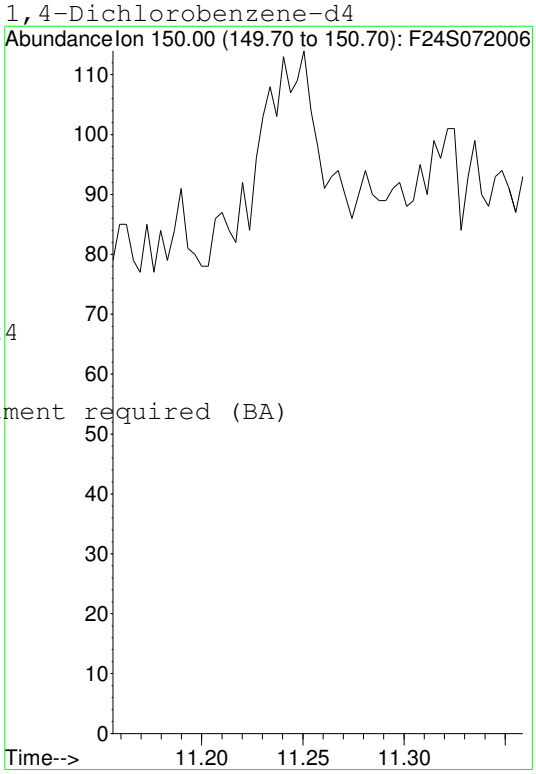
RT : 11.25
Area : 52
Amount: 10

Manual Int. Results

Wed Mar 13 07:34:09 2024

MIuser: GJB
Reason: Baseline adjustment required (BA)
RT : 0.00
Area : 0
Amount: 10

Manual Integration
1,4-Dichlorobenzene-d4



Quantitation Report (QT Reviewed)

794

Data Path : C:\msdchem\1\data\F031224D\
Data File : F24S072007.D
Acq On : 12 Mar 2024 4:50 pm
Operator : GJB
Sample : DIOX 5.0 Inst : GCMSSV6
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 13 07:34:30 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324diox.M
Quant Title :
QLast Update : Thu Oct 26 10:08:18 2023
Response via : Initial Calibration

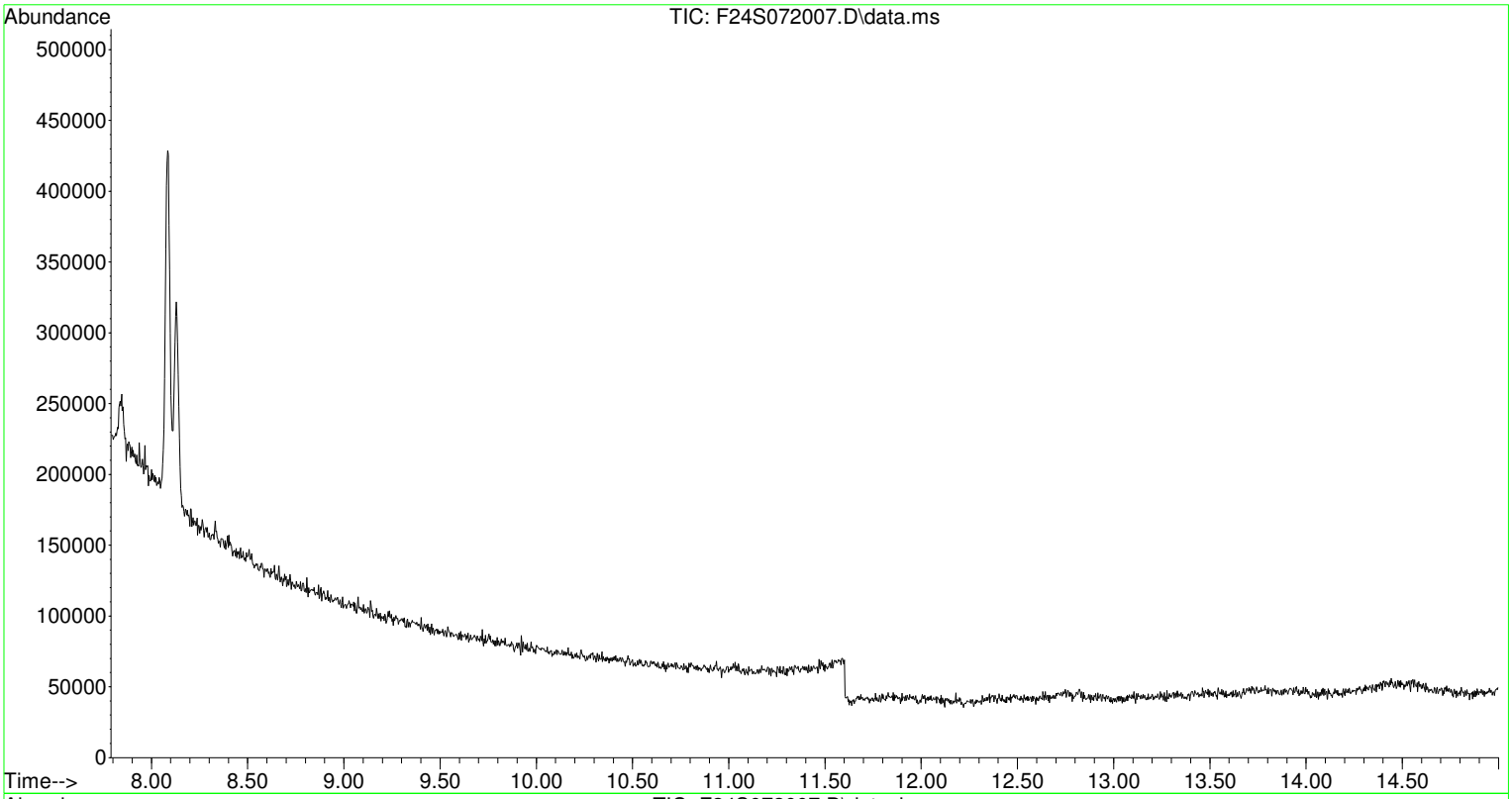
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	0.000	150	0m	10.000	ug/mL	-11.26
3) 1,4-Dioxane-d8 (I.S.)	8.083	96	257528	10.000	ug/mL	0.00
System Monitoring Compounds						
2) 1,4-Dioxane-d8	0.000	96	0d	0.000	ug/mL	
Target Compounds						Qvalue
4) 1,4-Dioxane	8.130	88	144781	No Calib		

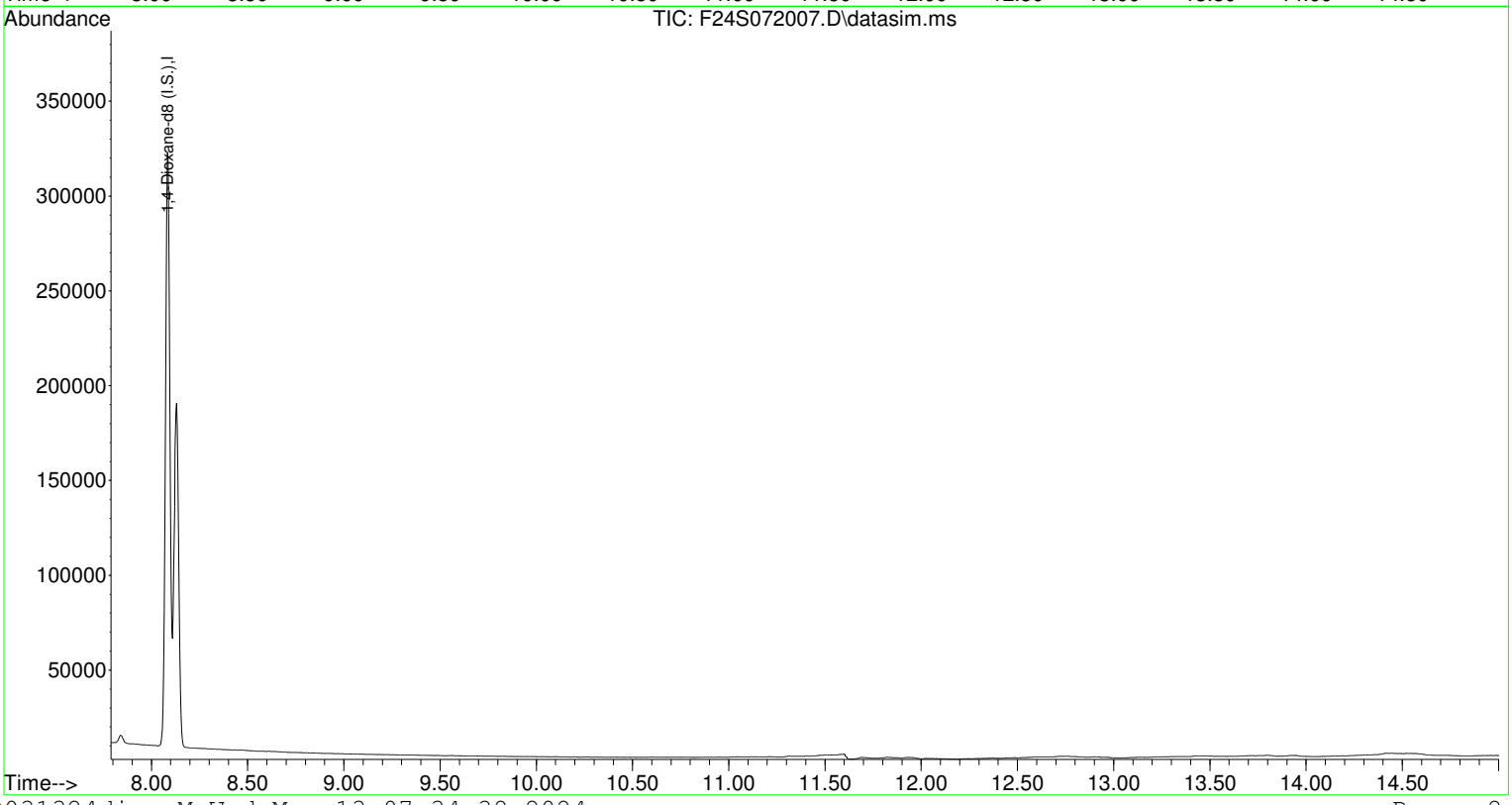
(#) = qualifier out of range (m) = manual integration (+) = signals summed

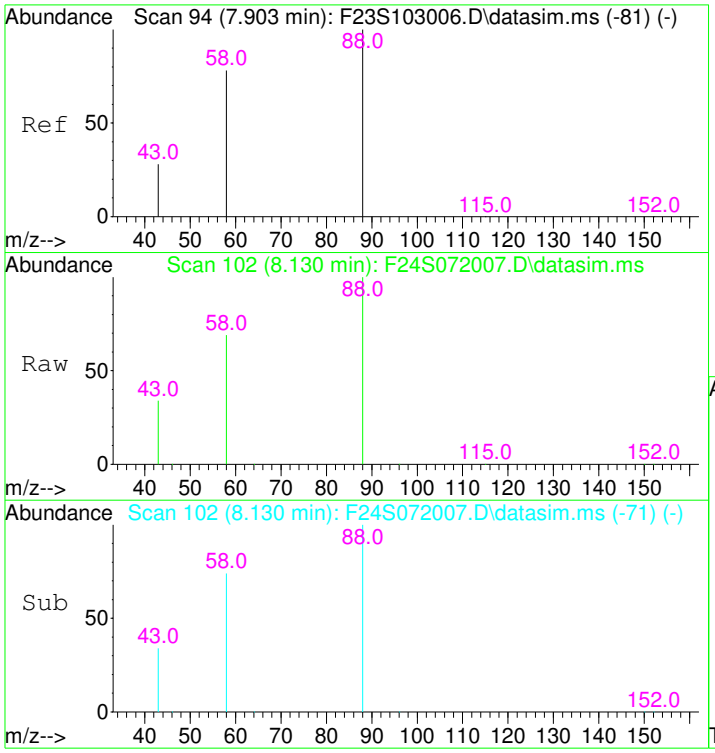
Data Path : C:\msdchem\1\data\F031224D\
Data File : F24S072007.D
Acq On : 12 Mar 2024 4:50 pm
Operator : GJB
Sample : DIOX 5.0 Inst : GCMSSV6
Misc :
ALS Vial : 7 Sample Multiplier: 1

795

Quant Time: Mar 13 07:34:30 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324diox.M
Quant Title :
QLast Update : Thu Oct 26 10:08:18 2023
Response via : Initial Calibration



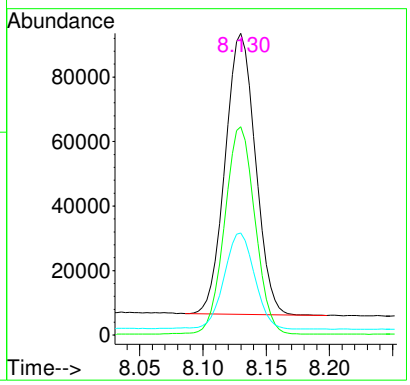




#4
1,4-Dioxane
Concen: N.D.
RT: 8.130 min Scan# 102
Delta R.T. 0.003 min
Lab File: F24S072007.D
Acq: 12 Mar 2024 4:50 pm

Tgt Ion: 88 Resp: 144781

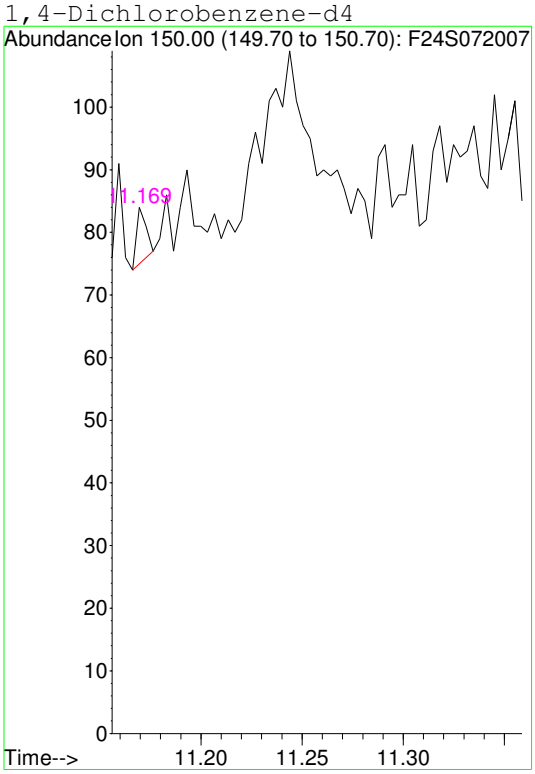
Ion	Ratio	Lower	Upper
88	100		
58	74.3	50.0	93.0
43	34.3	23.9	44.3



Data Path : C:\msdchem\1\data\F031224D\
Data File : F24S072007.D
Acq On : 12 Mar 2024 4:50 pm
Operator : GJB
Sample : DIOX 5.0
Misc :

Quant Time : Wed Mar 13 07:34:30 2024
Quant Method : C:\msdchem\1\methods\DQ031324diox.M
QLast Update : Thu Oct 26 10:08:18 2023

Original Integration
1,4-Dichlorobenzene-d4



Original Int. Results

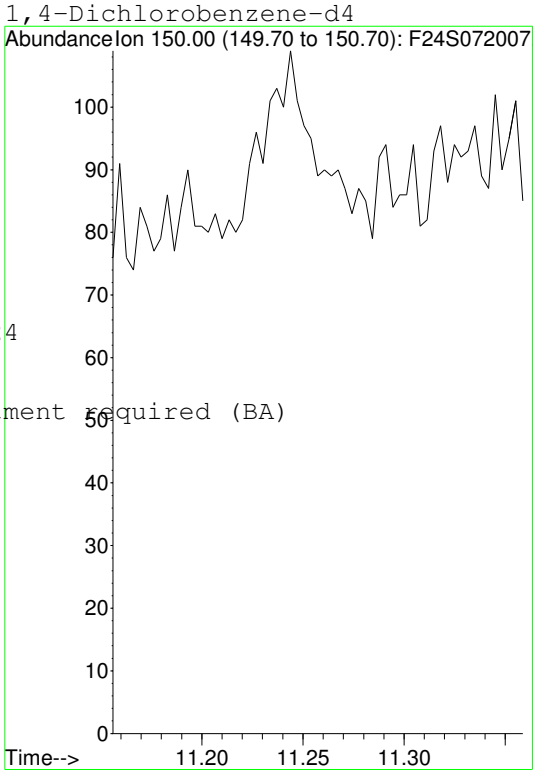
RT : 11.17
Area : 3
Amount: 10

Manual Int. Results

Wed Mar 13 07:34:29 2024

MIuser: GJB
Reason: Baseline adjustment required (BA)
RT : 0.00
Area : 0
Amount: 10

Manual Integration
1,4-Dichlorobenzene-d4



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\F031224D\
Data File : F24S072008.D
Acq On : 12 Mar 2024 5:12 pm
Operator : GJB
Sample : DIOX 10 Inst : GCMSSV6
Misc :
ALS Vial : 8 Sample Multiplier: 1

798

Quant Time: Mar 13 07:34:45 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324diox.M
Quant Title :
QLast Update : Thu Oct 26 10:08:18 2023
Response via : Initial Calibration

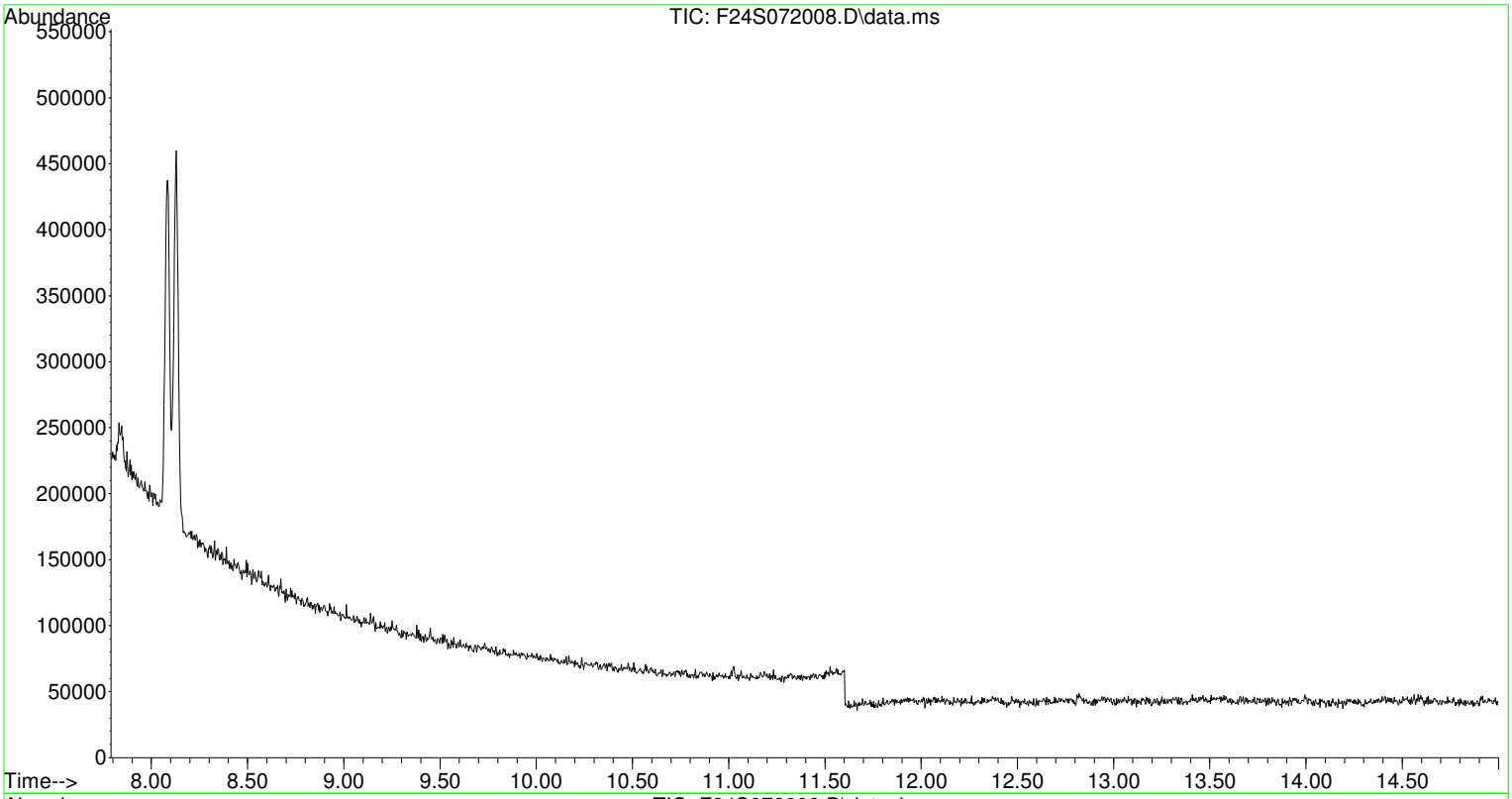
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	0.000	150	0m	10.000	ug/mL	-11.26
3) 1,4-Dioxane-d8 (I.S.)	8.083	96	265724	10.000	ug/mL	0.00
System Monitoring Compounds						
2) 1,4-Dioxane-d8	0.000	96	0d	0.000	ug/mL	
Target Compounds						Qvalue
4) 1,4-Dioxane	8.127	88	282160	No Calib		

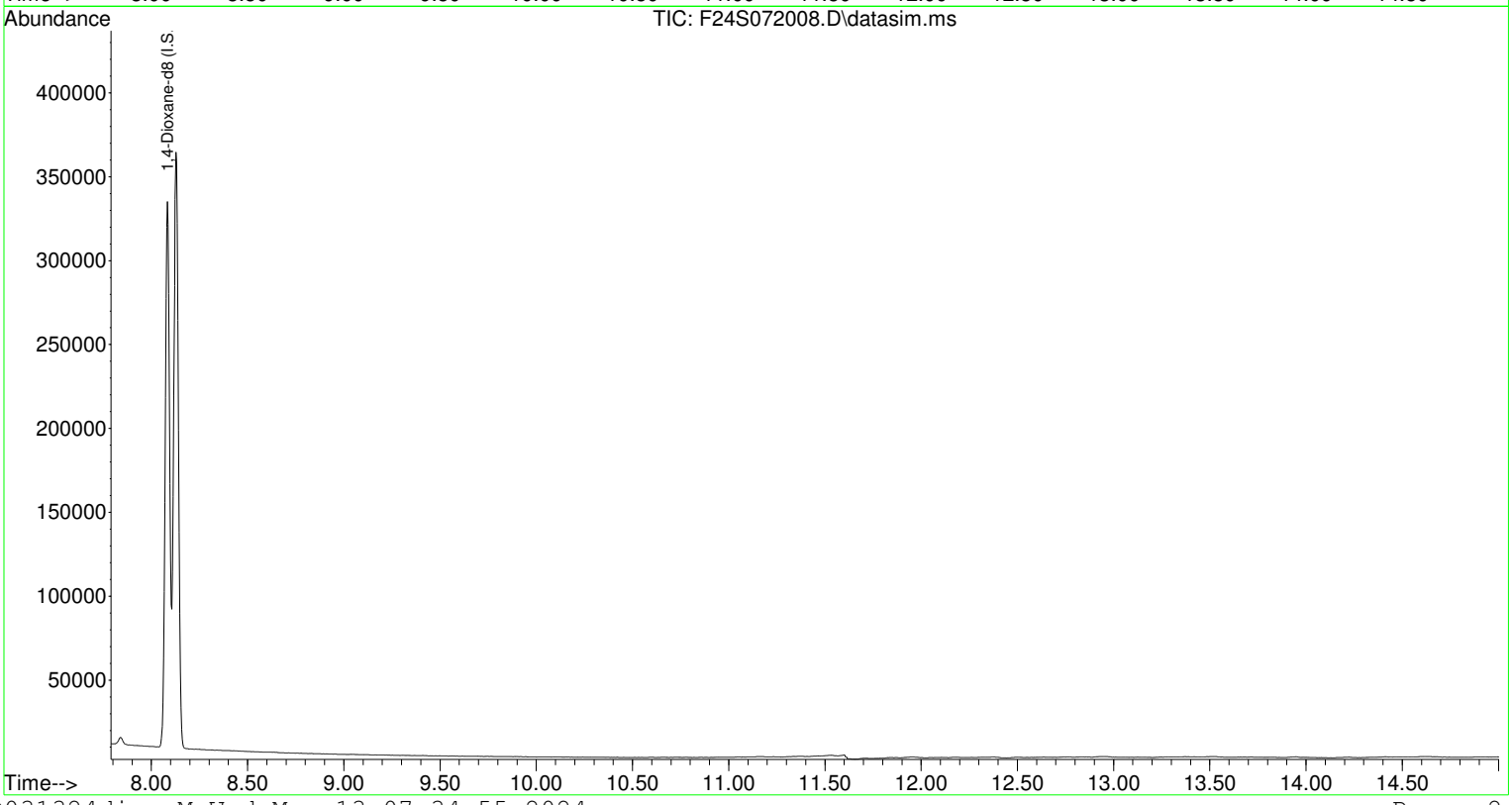
(#) = qualifier out of range (m) = manual integration (+) = signals summed

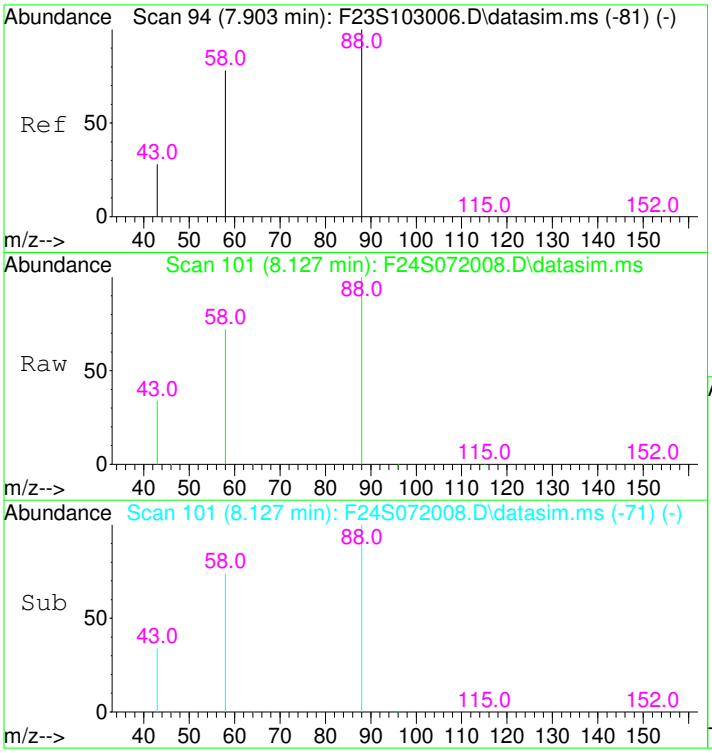
Data Path : C:\msdchem\1\data\F031224D\
Data File : F24S072008.D
Acq On : 12 Mar 2024 5:12 pm
Operator : GJB
Sample : DIOX 10 Inst : GCMSSV6
Misc :
ALS Vial : 8 Sample Multiplier: 1

799

Quant Time: Mar 13 07:34:45 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324diox.M
Quant Title :
QLast Update : Thu Oct 26 10:08:18 2023
Response via : Initial Calibration



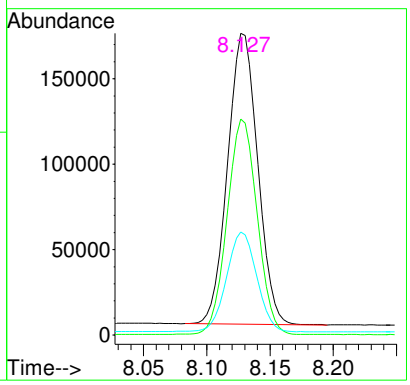




#4
1,4-Dioxane
Concen: N.D.
RT: 8.127 min Scan# 101
Delta R.T. 0.000 min
Lab File: F24S072008.D
Acq: 12 Mar 2024 5:12 pm

Tgt Ion: 88 Resp: 282160

Ion	Ratio	Lower	Upper
88	100		
58	73.9	50.0	93.0
43	34.2	23.9	44.3

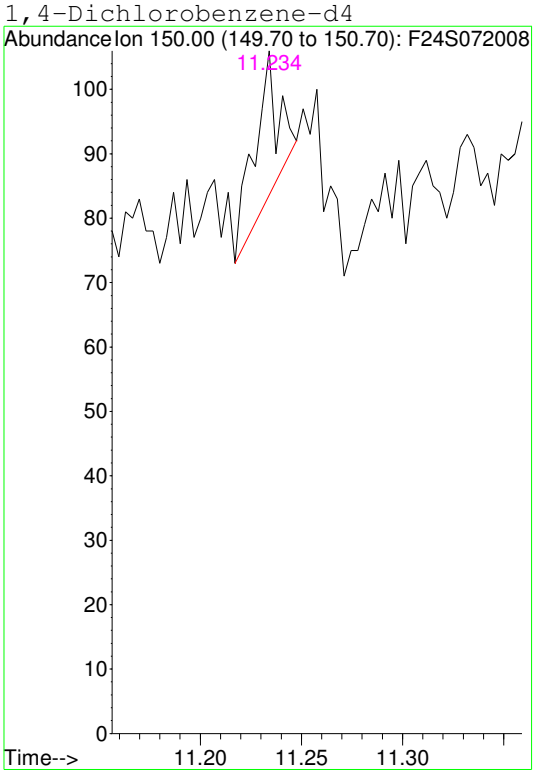


800

Data Path : C:\msdchem\1\data\F031224D\
Data File : F24S072008.D
Acq On : 12 Mar 2024 5:12 pm
Operator : GJB
Sample : DIOX 10
Misc :

Quant Time : Wed Mar 13 07:34:45 2024
Quant Method : C:\msdchem\1\methods\DQ031324diox.M
QLast Update : Thu Oct 26 10:08:18 2023

Original Integration
1,4-Dichlorobenzene-d4



Original Int. Results

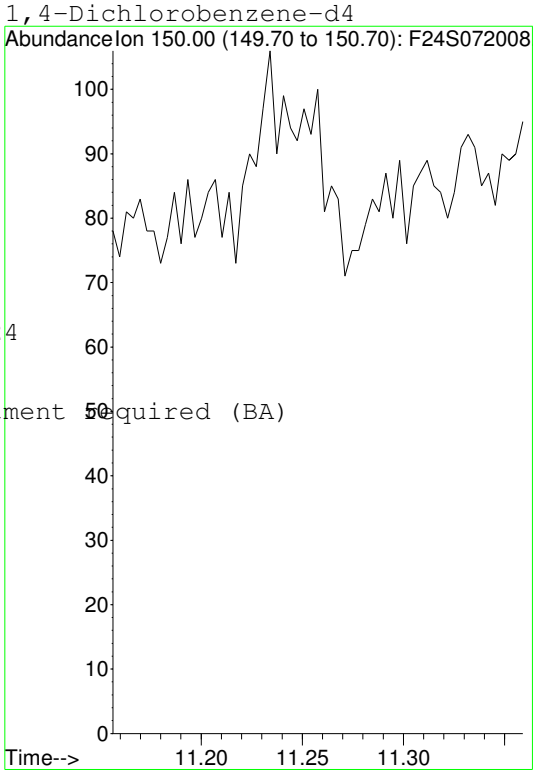
RT : 11.23
Area : 20
Amount: 10

Manual Int. Results

Wed Mar 13 07:34:44 2024

MIuser: GJB
Reason: Baseline adjustment required (BA)
RT : 0.00
Area : 0
Amount: 10

Manual Integration
1,4-Dichlorobenzene-d4



Quantitation Report (QT Reviewed)

802

Data Path : C:\msdchem\1\data\F031224D\
Data File : F24S072009.D
Acq On : 12 Mar 2024 5:33 pm
Operator : GJB
Sample : DIOX 25 Inst : GCMSSV6
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 13 07:35:04 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324diox.M
Quant Title :
QLast Update : Thu Oct 26 10:08:18 2023
Response via : Initial Calibration

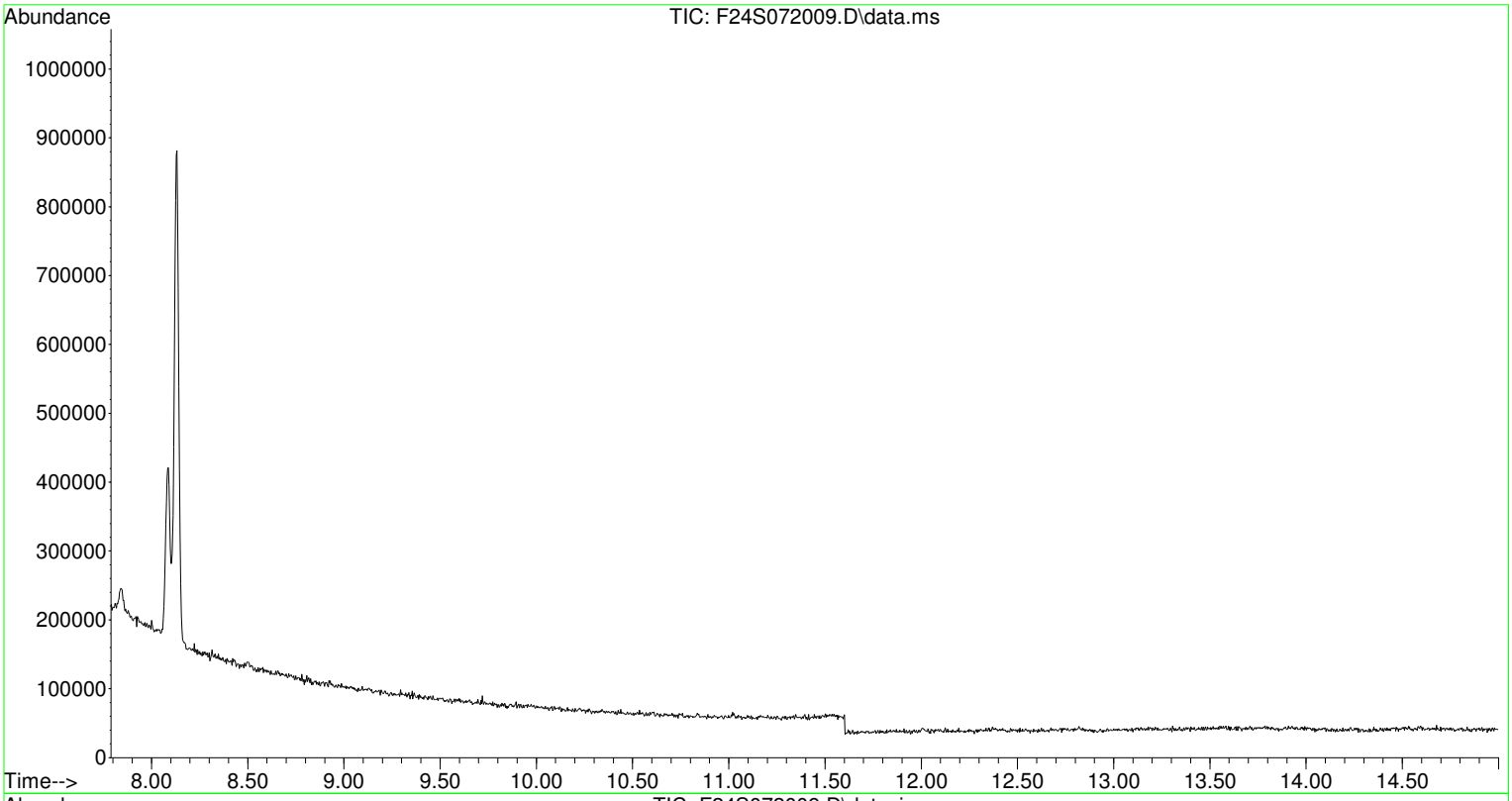
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	0.000	150	0m	10.000	ug/mL	-11.26
3) 1,4-Dioxane-d8 (I.S.)	8.086	96	258833	10.000	ug/mL	0.00
System Monitoring Compounds						
2) 1,4-Dioxane-d8	0.000	96	0d	0.000	ug/mL	
Target Compounds						Qvalue
4) 1,4-Dioxane	8.130	88	713681	No Calib		

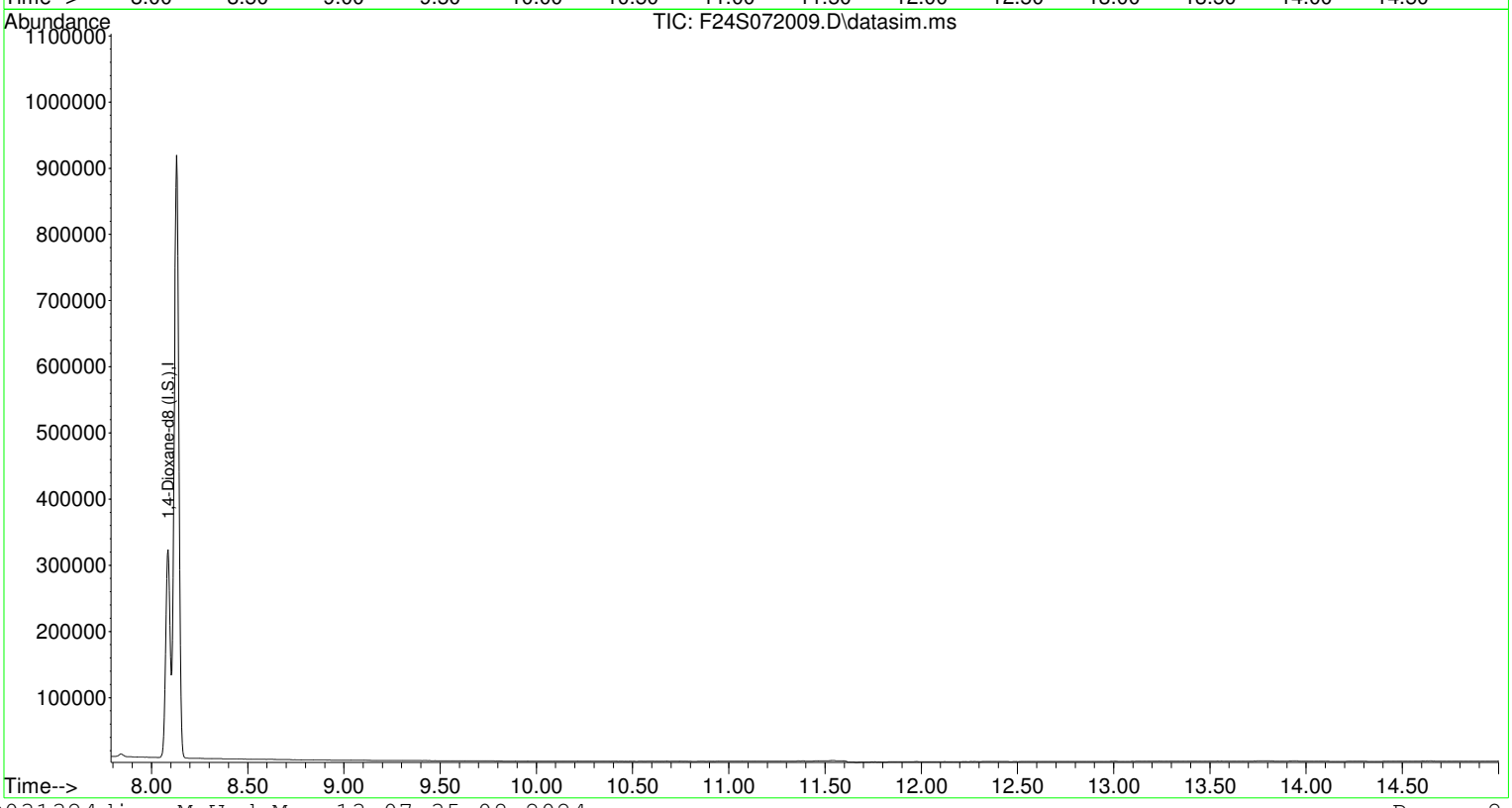
(#) = qualifier out of range (m) = manual integration (+) = signals summed

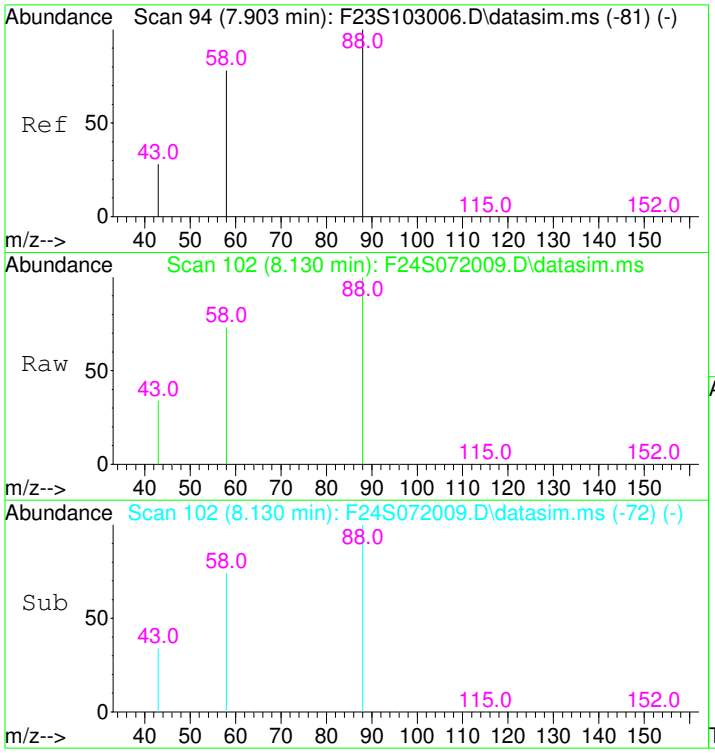
Data Path : C:\msdchem\1\data\F031224D\
Data File : F24S072009.D
Acq On : 12 Mar 2024 5:33 pm
Operator : GJB
Sample : DIOX 25 Inst : GCMSSV6
Misc :
ALS Vial : 9 Sample Multiplier: 1

803

Quant Time: Mar 13 07:35:04 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324diox.M
Quant Title :
QLast Update : Thu Oct 26 10:08:18 2023
Response via : Initial Calibration



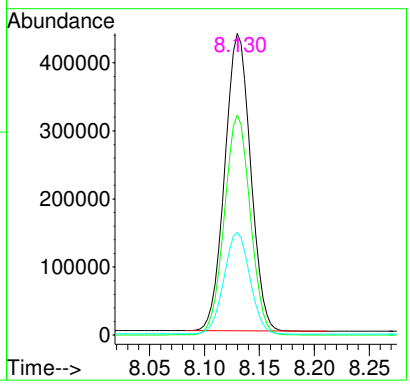




#4
1,4-Dioxane
Concen: N.D.
RT: 8.130 min Scan# 102
Delta R.T. 0.003 min
Lab File: F24S072009.D
Acq: 12 Mar 2024 5:33 pm

Tgt Ion: 88 Resp: 713681

Ion	Ratio	Lower	Upper
88	100		
58	73.9	50.0	93.0
43	34.2	23.9	44.3

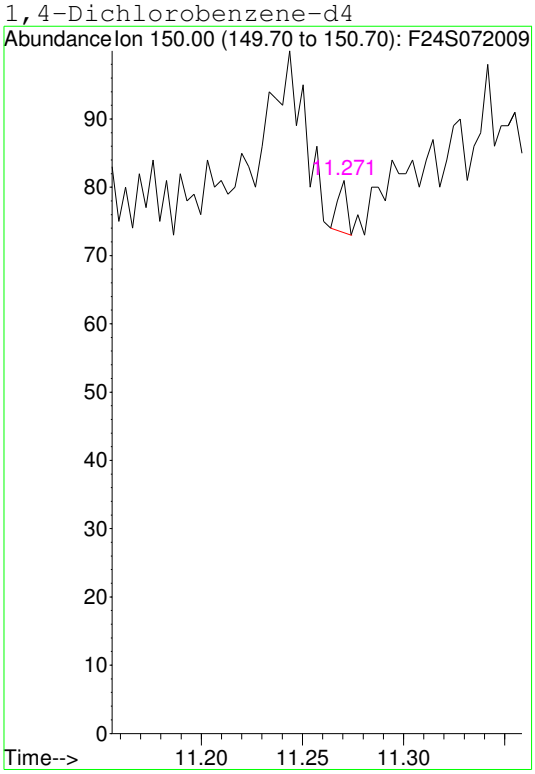


804

Data Path : C:\msdchem\1\data\F031224D\
Data File : F24S072009.D
Acq On : 12 Mar 2024 5:33 pm
Operator : GJB
Sample : DIOX 25
Misc :

Quant Time : Wed Mar 13 07:35:04 2024
Quant Method : C:\msdchem\1\methods\DQ031324diox.M
QLast Update : Thu Oct 26 10:08:18 2023

Original Integration
1,4-Dichlorobenzene-d4



Original Int. Results

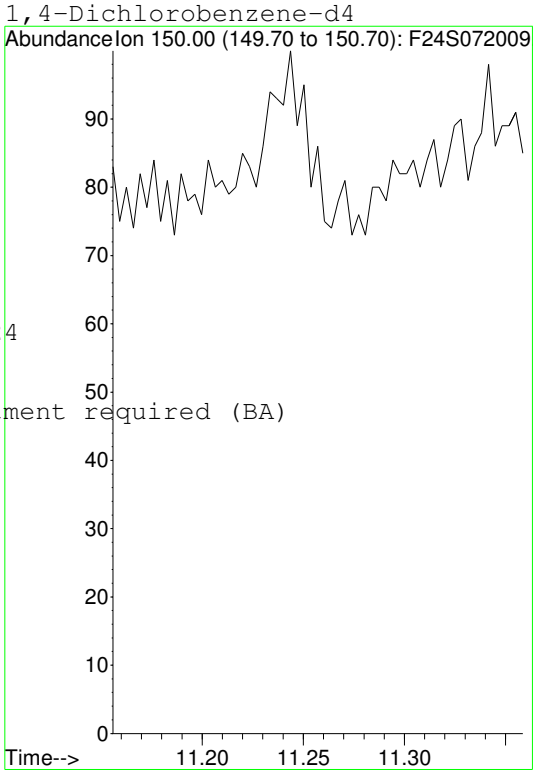
RT : 11.27
Area : 2
Amount: 10

Manual Int. Results

Wed Mar 13 07:35:02 2024

MIuser: GJB
Reason: Baseline adjustment required (BA)
RT : 0.00
Area : 0
Amount: 10

Manual Integration
1,4-Dichlorobenzene-d4



Quantitation Report (QT Reviewed)

806

Data Path : C:\msdchem\1\data\F031224D\
Data File : F24S072010.D
Acq On : 12 Mar 2024 5:54 pm
Operator : GJB
Sample : DIOX 50 Inst : GCMSSV6
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 13 07:35:18 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324diox.M
Quant Title :
QLast Update : Thu Oct 26 10:08:18 2023
Response via : Initial Calibration

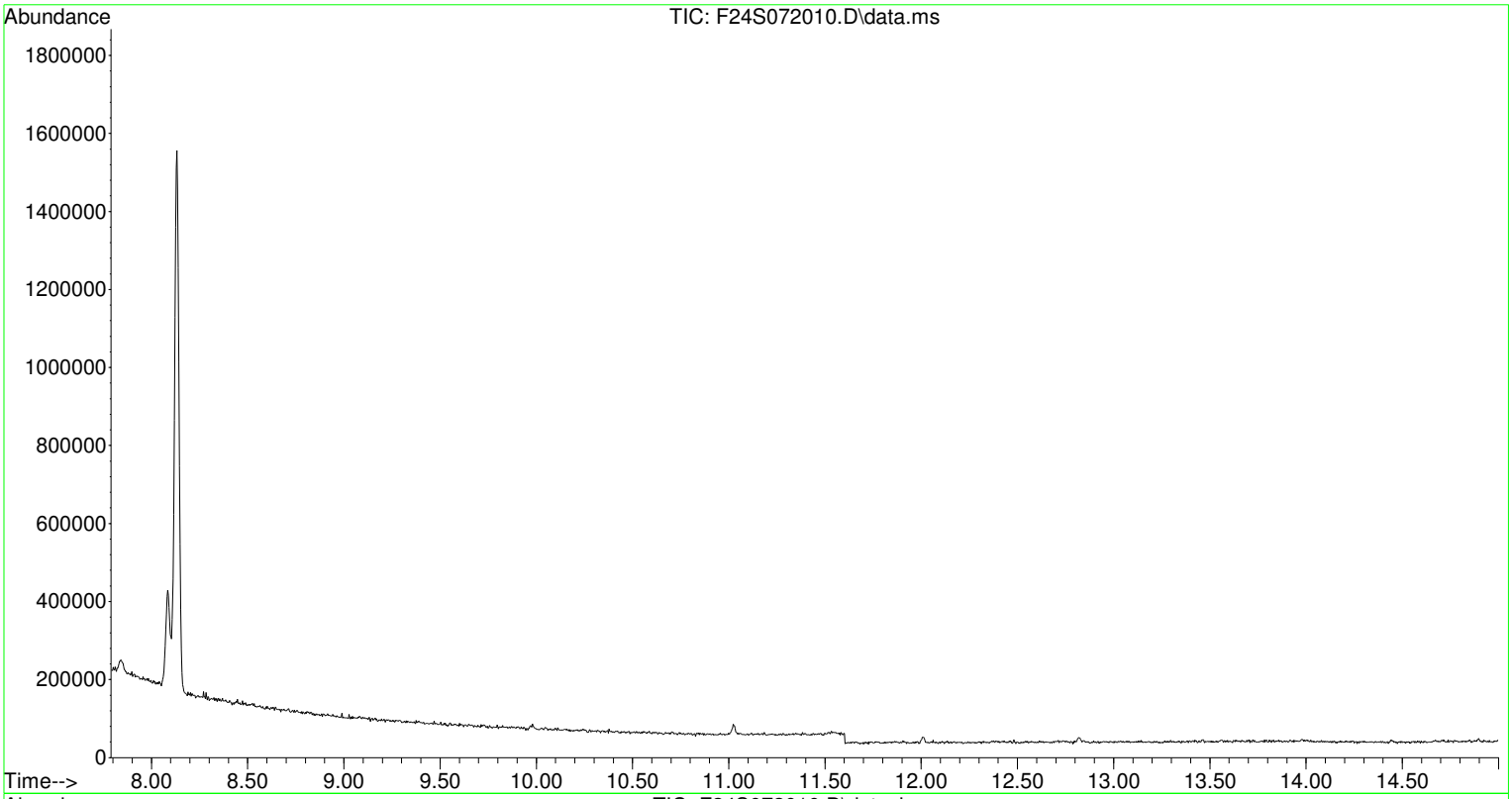
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	0.000	150	0m	10.000	ug/mL	-11.26
3) 1,4-Dioxane-d8 (I.S.)	8.086	96	251696	10.000	ug/mL	0.00
System Monitoring Compounds						
2) 1,4-Dioxane-d8	0.000	96	0d	0.000	ug/mL	
Target Compounds						Qvalue
4) 1,4-Dioxane	8.130	88	1365933	No Calib		

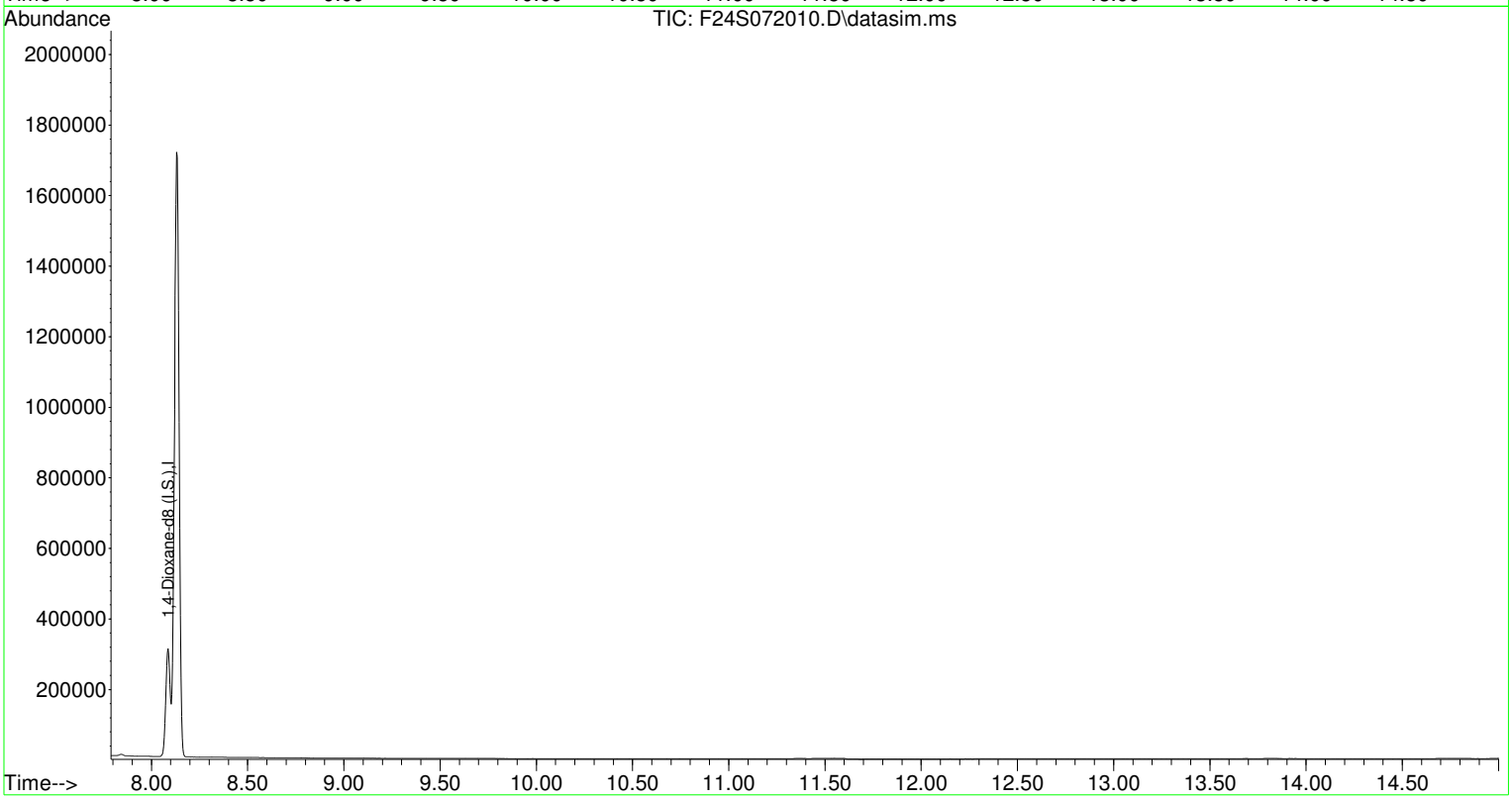
(#) = qualifier out of range (m) = manual integration (+) = signals summed

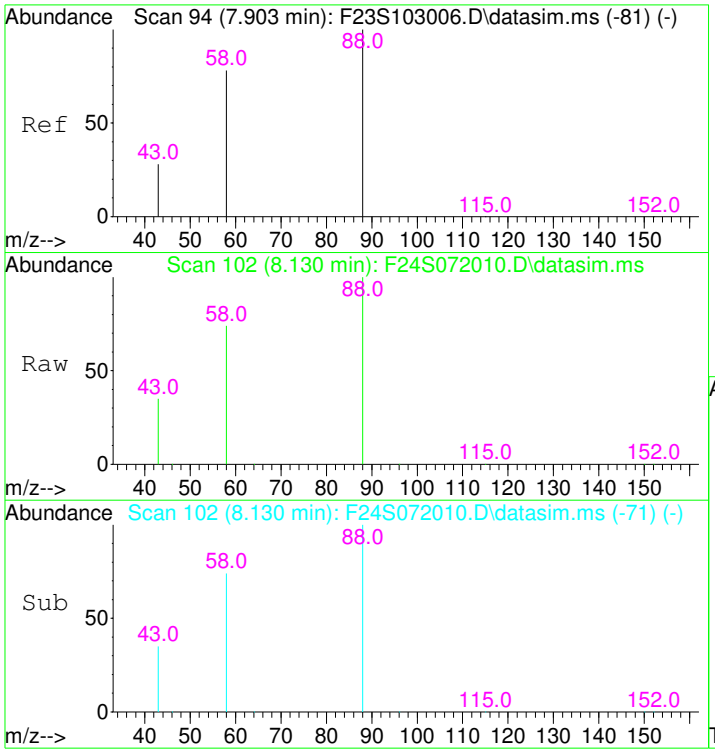
Data Path : C:\msdchem\1\data\F031224D\
Data File : F24S072010.D
Acq On : 12 Mar 2024 5:54 pm
Operator : GJB
Sample : DIOX 50 Inst : GCMSSV6
Misc :
ALS Vial : 10 Sample Multiplier: 1

807

Quant Time: Mar 13 07:35:18 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324diox.M
Quant Title :
QLast Update : Thu Oct 26 10:08:18 2023
Response via : Initial Calibration



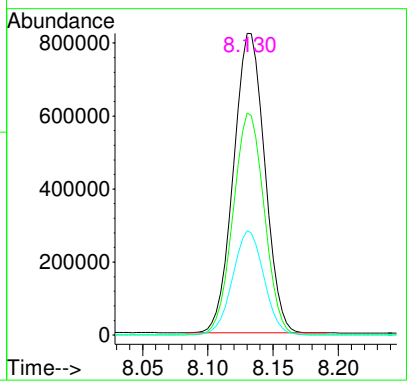




#4
1,4-Dioxane
Concen: N.D.
RT: 8.130 min Scan# 102
Delta R.T. 0.003 min
Lab File: F24S072010.D
Acq: 12 Mar 2024 5:54 pm

Tgt Ion: 88 Resp: 1365933

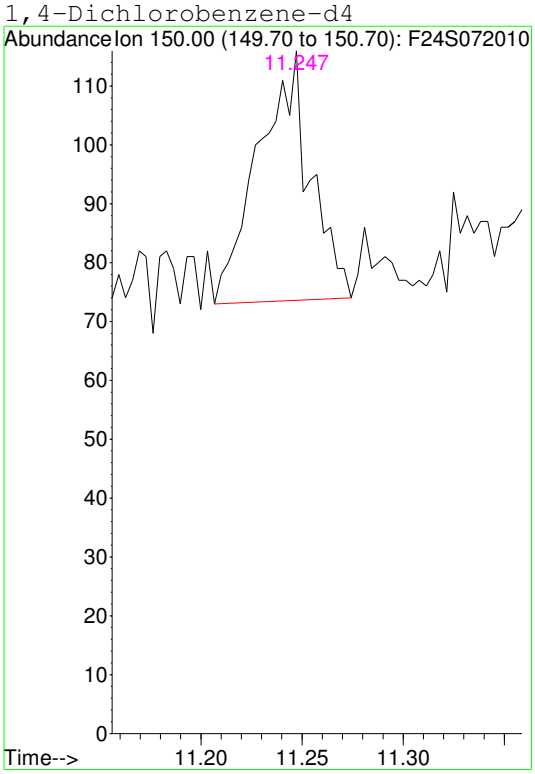
Ion	Ratio	Lower	Upper
88	100		
58	73.9	50.0	93.0
43	34.2	23.9	44.3



Data Path : C:\msdchem\1\data\F031224D\
Data File : F24S072010.D
Acq On : 12 Mar 2024 5:54 pm
Operator : GJB
Sample : DIOX 50
Misc :

Quant Time : Wed Mar 13 07:35:18 2024
Quant Method : C:\msdchem\1\methods\DQ031324diox.M
QLast Update : Thu Oct 26 10:08:18 2023

Original Integration
1,4-Dichlorobenzene-d4



Original Int. Results

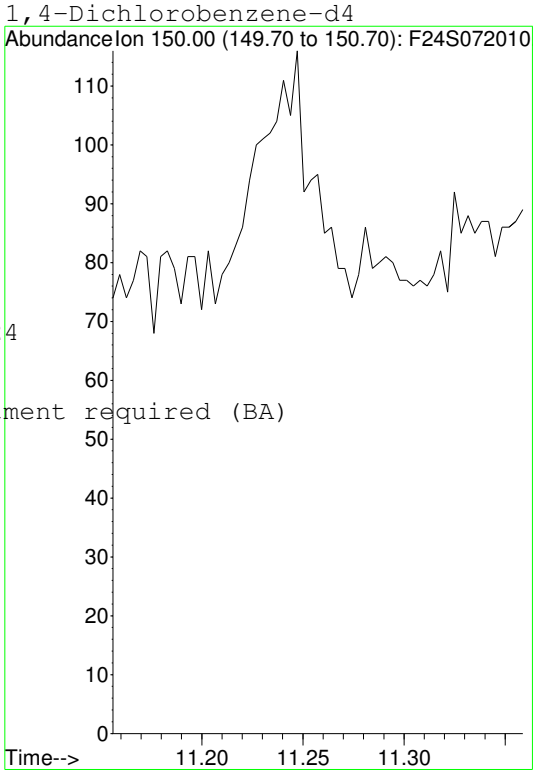
RT : 11.25
Area : 76
Amount: 10

Manual Int. Results

Wed Mar 13 07:35:14 2024

MIuser: GJB
Reason: Baseline adjustment required (BA)
RT : 0.00
Area : 0
Amount: 10

Manual Integration
1,4-Dichlorobenzene-d4



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\F031224D\
Data File : F24S072011.D
Acq On : 12 Mar 2024 6:15 pm
Operator : GJB
Sample : DIOX 100 Inst : GCMSSV6
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 13 07:35:41 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324diox.M
Quant Title :
QLast Update : Thu Oct 26 10:08:18 2023
Response via : Initial Calibration

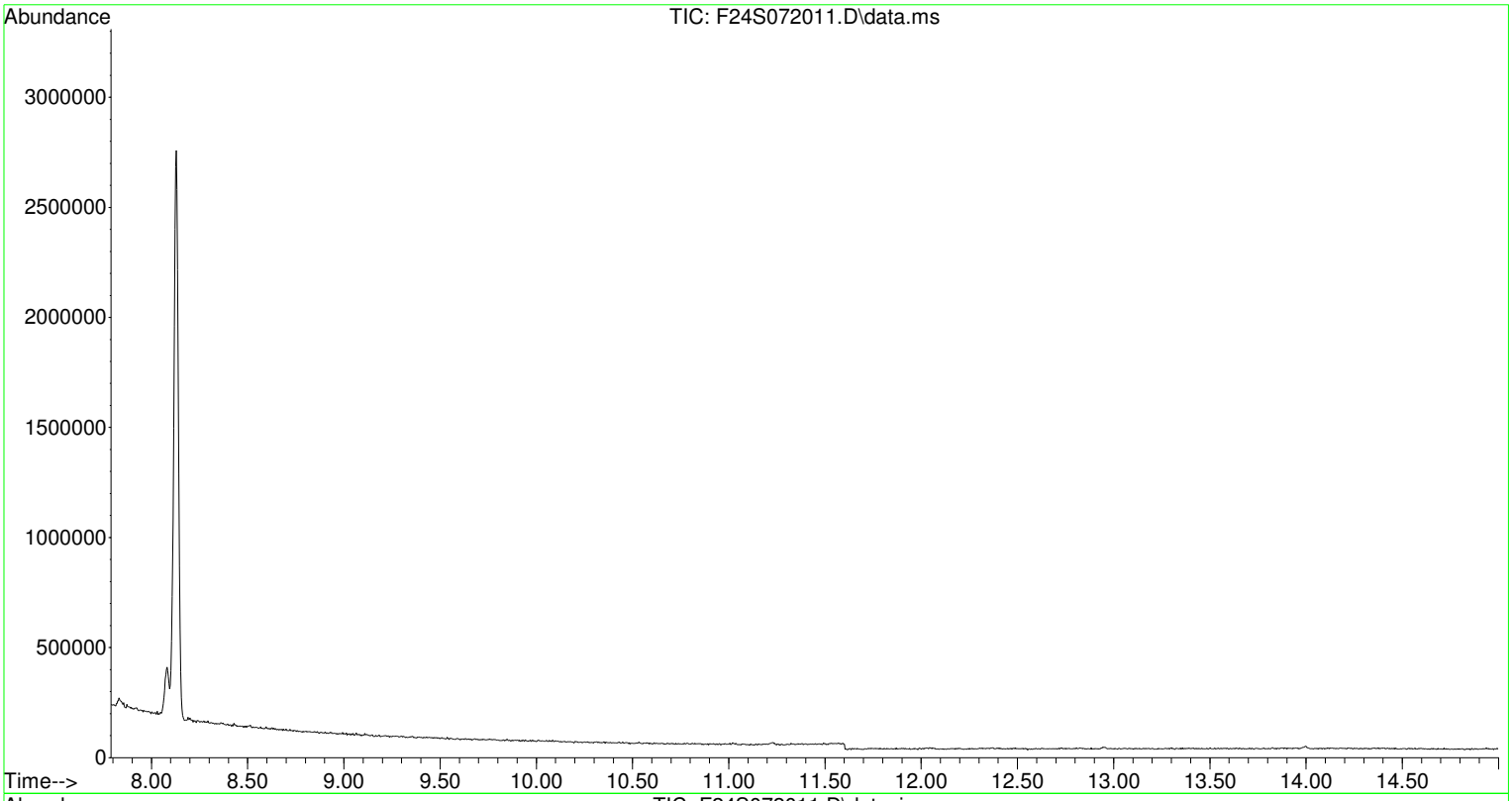
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	0.000	150	0m	10.000	ug/mL	-11.26
3) 1,4-Dioxane-d8 (I.S.)	8.079	96	229352	10.000	ug/mL	0.00
System Monitoring Compounds						
2) 1,4-Dioxane-d8	0.000	96	0d	0.000	ug/mL	
Target Compounds						Qvalue
4) 1,4-Dioxane	8.130	88	2523639	No Calib		

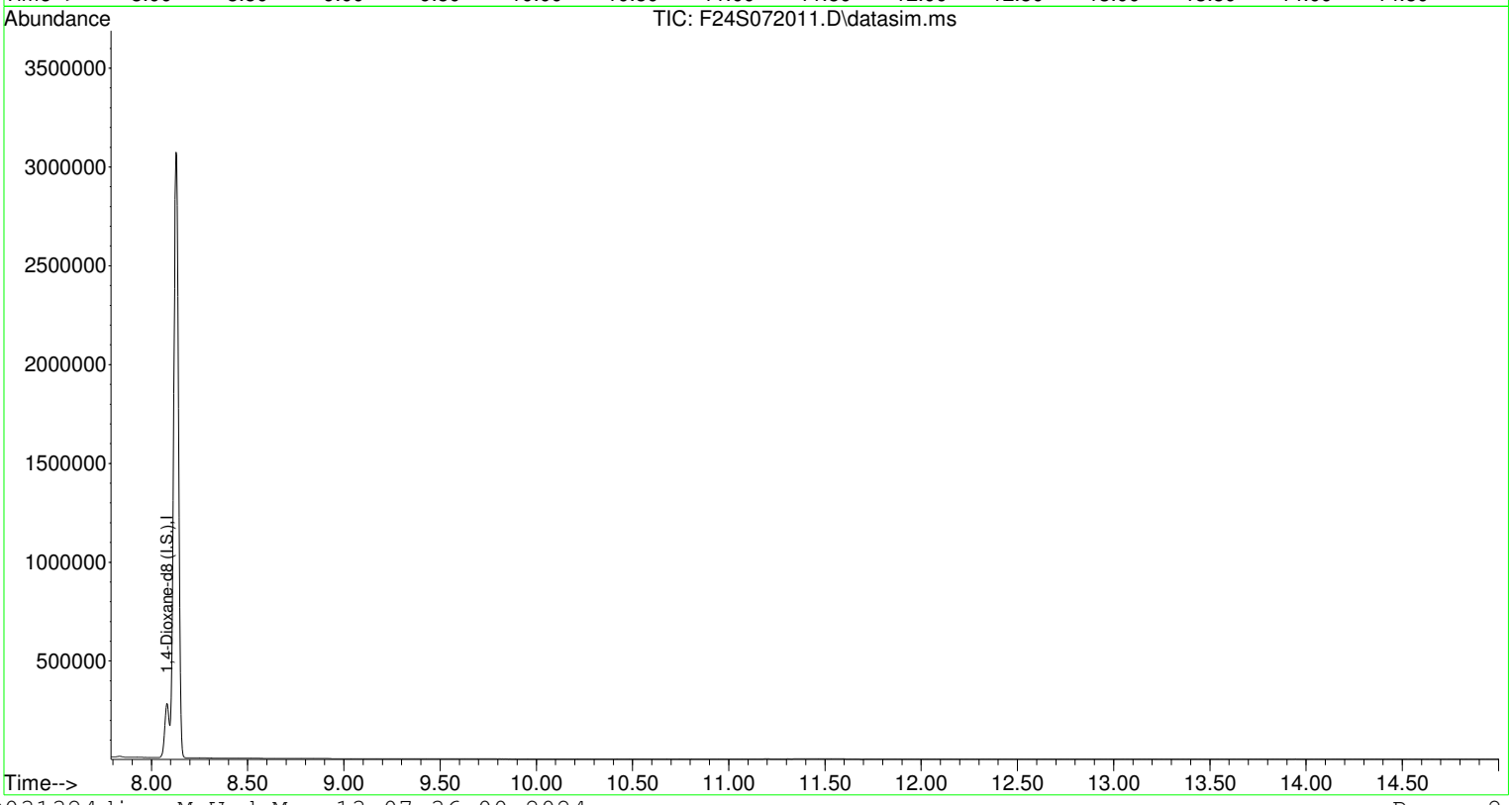
(#) = qualifier out of range (m) = manual integration (+) = signals summed

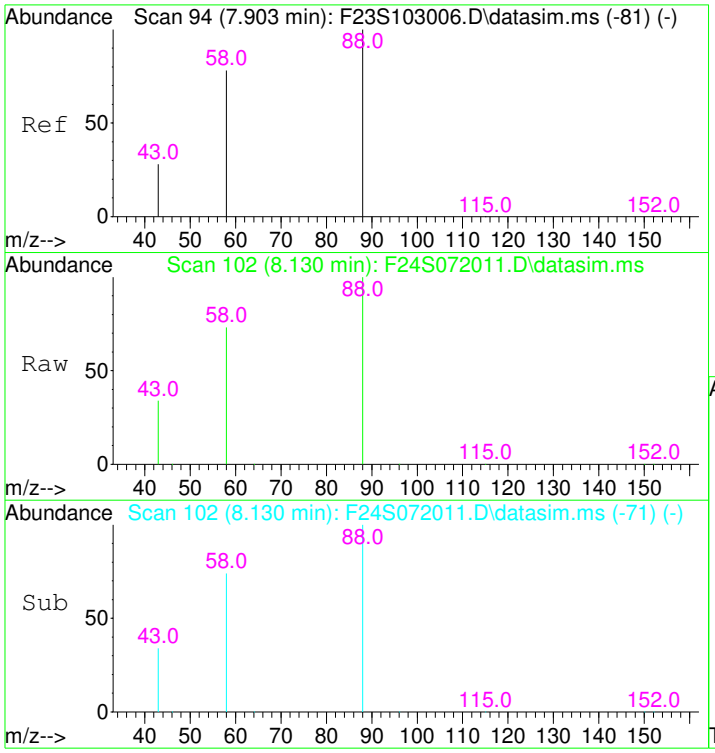
Data Path : C:\msdchem\1\data\F031224D\
Data File : F24S072011.D
Acq On : 12 Mar 2024 6:15 pm
Operator : GJB
Sample : DIOX 100 Inst : GCMSSV6
Misc :
ALS Vial : 11 Sample Multiplier: 1

811

Quant Time: Mar 13 07:35:41 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324diox.M
Quant Title :
QLast Update : Thu Oct 26 10:08:18 2023
Response via : Initial Calibration



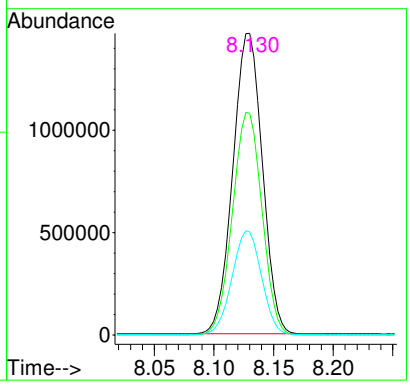




#4
1,4-Dioxane
Concen: N.D.
RT: 8.130 min Scan# 102
Delta R.T. 0.003 min
Lab File: F24S072011.D
Acq: 12 Mar 2024 6:15 pm

Tgt Ion: 88 Resp: 2523639

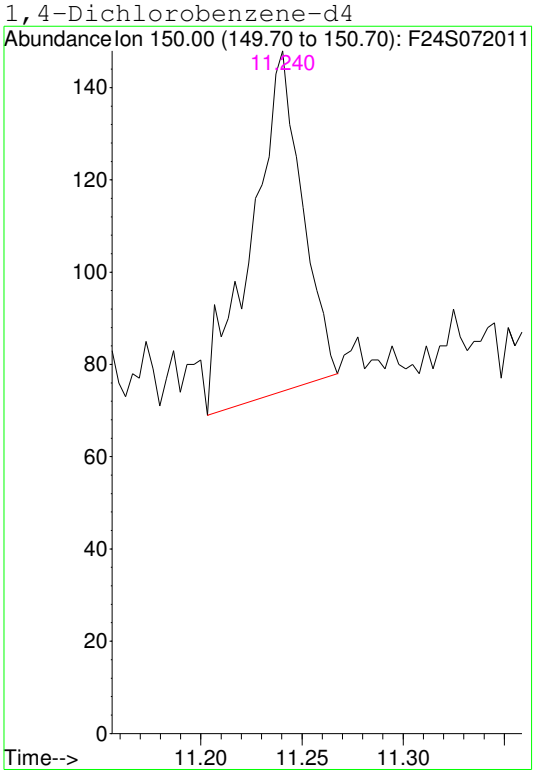
Ion	Ratio	Lower	Upper
88	100		
58	74.0	50.0	93.0
43	34.3	23.9	44.3



Data Path : C:\msdchem\1\data\F031224D\
Data File : F24S072011.D
Acq On : 12 Mar 2024 6:15 pm
Operator : GJB
Sample : DIOX 100
Misc :

Quant Time : Wed Mar 13 07:35:41 2024
Quant Method : C:\msdchem\1\methods\DQ031324diox.M
QLast Update : Thu Oct 26 10:08:18 2023

Original Integration
1,4-Dichlorobenzene-d4



Original Int. Results

RT : 11.24
Area : 129
Amount: 10

Manual Int. Results

Wed Mar 13 07:35:38 2024

MIuser: GJB
Reason: Baseline adjustment required (BA)
RT : 0.00
Area : 0
Amount: 10

Manual Integration
1,4-Dichlorobenzene-d4

Quantitation Report (QT Reviewed)

814

Data Path : C:\msdchem\1\data\F031224D\
Data File : F24S072012.D
Acq On : 12 Mar 2024 6:36 pm
Operator : GJB
Sample : D8 0.2 Inst : GCMSSV6
Misc :
ALS Vial : 12 Sample Multiplier: 1

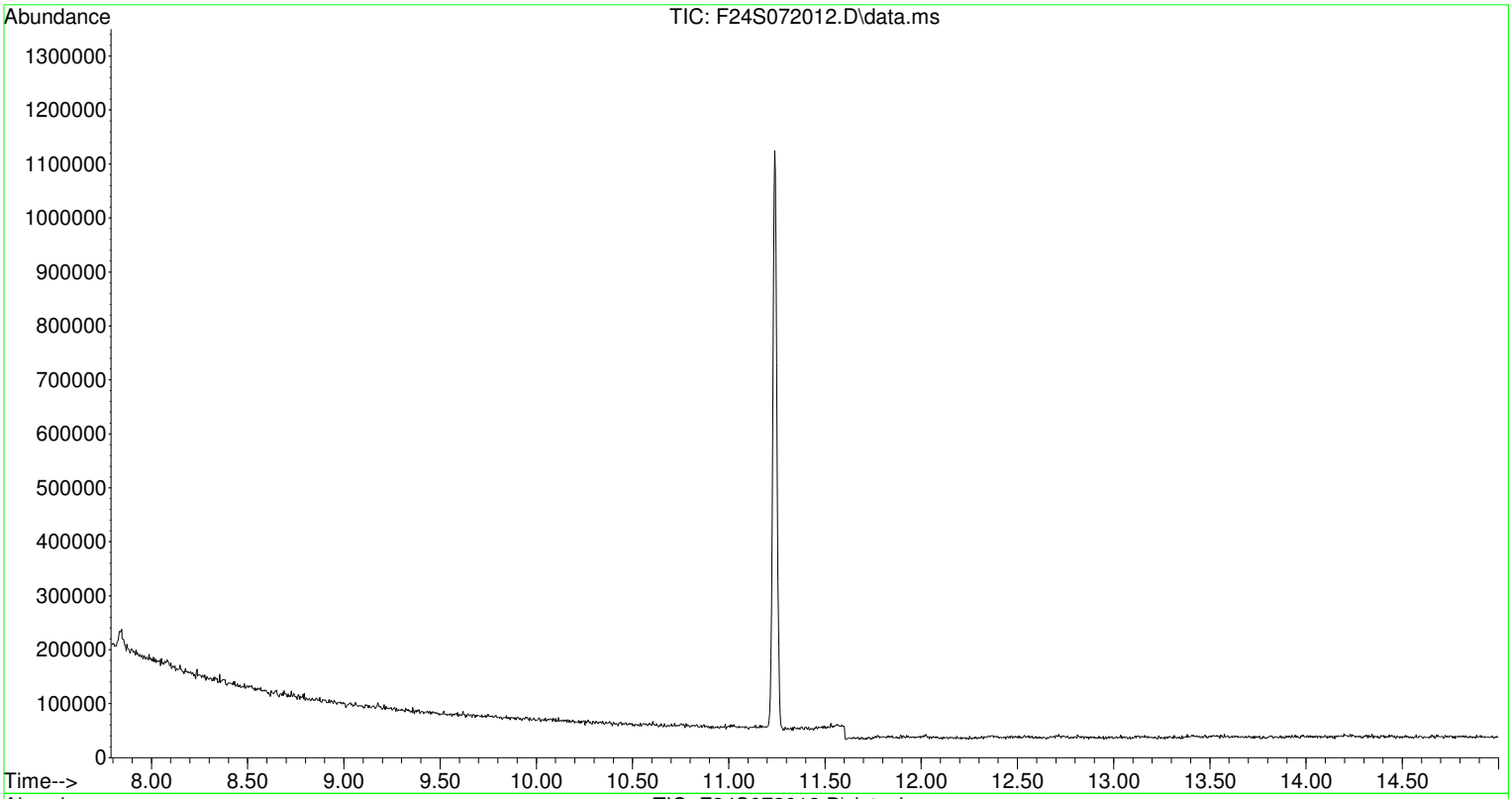
Quant Time: Mar 13 07:36:14 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324diox.M
Quant Title :
QLast Update : Thu Oct 26 10:08:18 2023
Response via : Initial Calibration

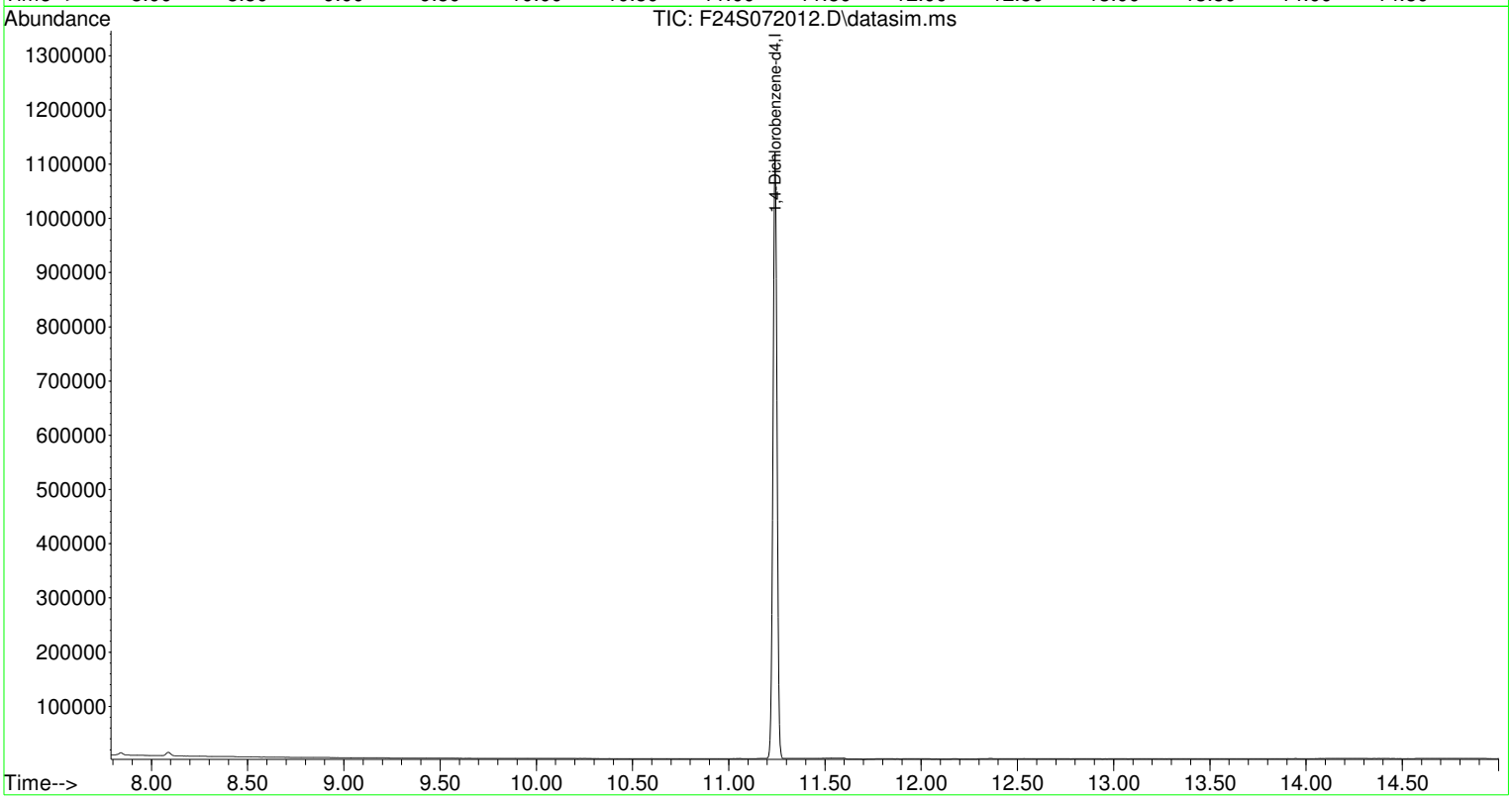
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	11.240	150	821854	10.000	ug/mL	-0.02
3) 1,4-Dioxane-d8 (I.S.)	0.000	96	0m	10.000	ug/mL	-8.08
System Monitoring Compounds						
2) 1,4-Dioxane-d8	8.089	96	5588	0.000	ug/mL	0.04
Target Compounds						Qvalue
4) 1,4-Dioxane	0.000		0	N.D.		

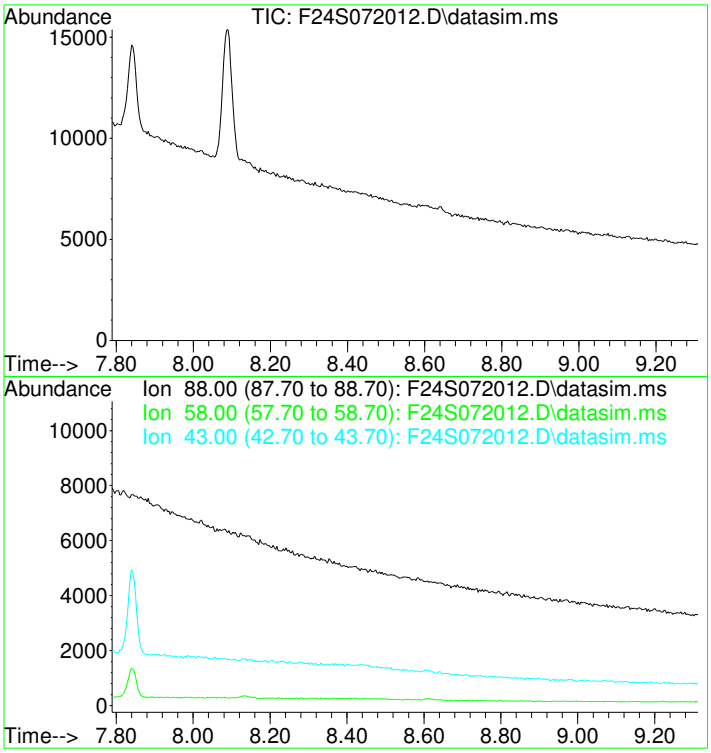
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\F031224D\
Data File : F24S072012.D
Acq On : 12 Mar 2024 6:36 pm
Operator : GJB
Sample : D8 0.2 Inst : GCMSSV6
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 13 07:36:14 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324diox.M
Quant Title :
QLast Update : Thu Oct 26 10:08:18 2023
Response via : Initial Calibration







#4
1,4-Dioxane
Concen: N.D.
Expected RT: 8.13 min

Lab File: F24S072012.D
Acq: 12 Mar 2024 6:36 pm

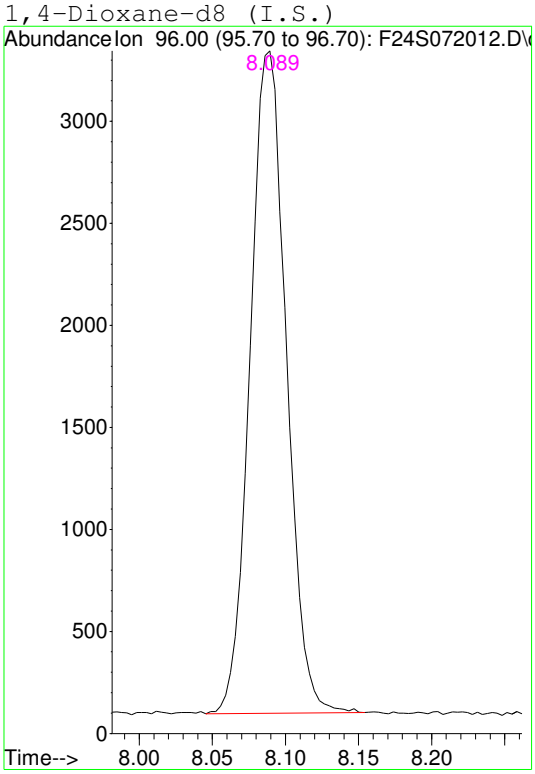
Tgt Ion: 88

Sig	Exp Ratio
88	100
58	71.5
43	34.1

Data Path : C:\msdchem\1\data\F031224D\
Data File : F24S072012.D
Acq On : 12 Mar 2024 6:36 pm
Operator : GJB
Sample : D8 0.2
Misc :

Quant Time : Wed Mar 13 07:36:14 2024
Quant Method : C:\msdchem\1\methods\DQ031324diox.M
QLast Update : Thu Oct 26 10:08:18 2023

Original Integration
1,4-Dioxane-d8 (I.S.)



Original Int. Results

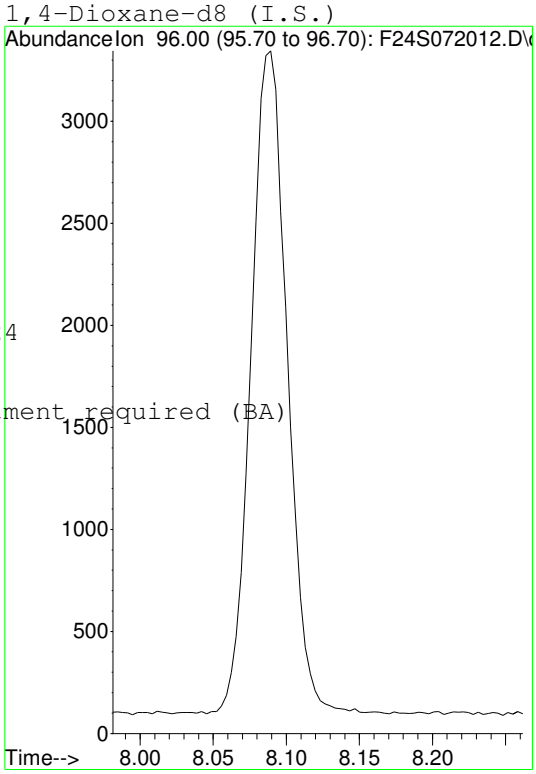
RT : 8.09
Area : 5588
Amount: 10

Manual Int. Results

Wed Mar 13 07:36:14 2024

MIuser: GJB
Reason: Baseline adjustment required (BA)
RT : 0.00
Area : 0
Amount: 10

Manual Integration
1,4-Dioxane-d8 (I.S.)



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\F031224D\
Data File : F24S072013.D
Acq On : 12 Mar 2024 6:57 pm
Operator : GJB
Sample : D8 1.0 Inst : GCMSSV6
Misc :
ALS Vial : 13 Sample Multiplier: 1

818

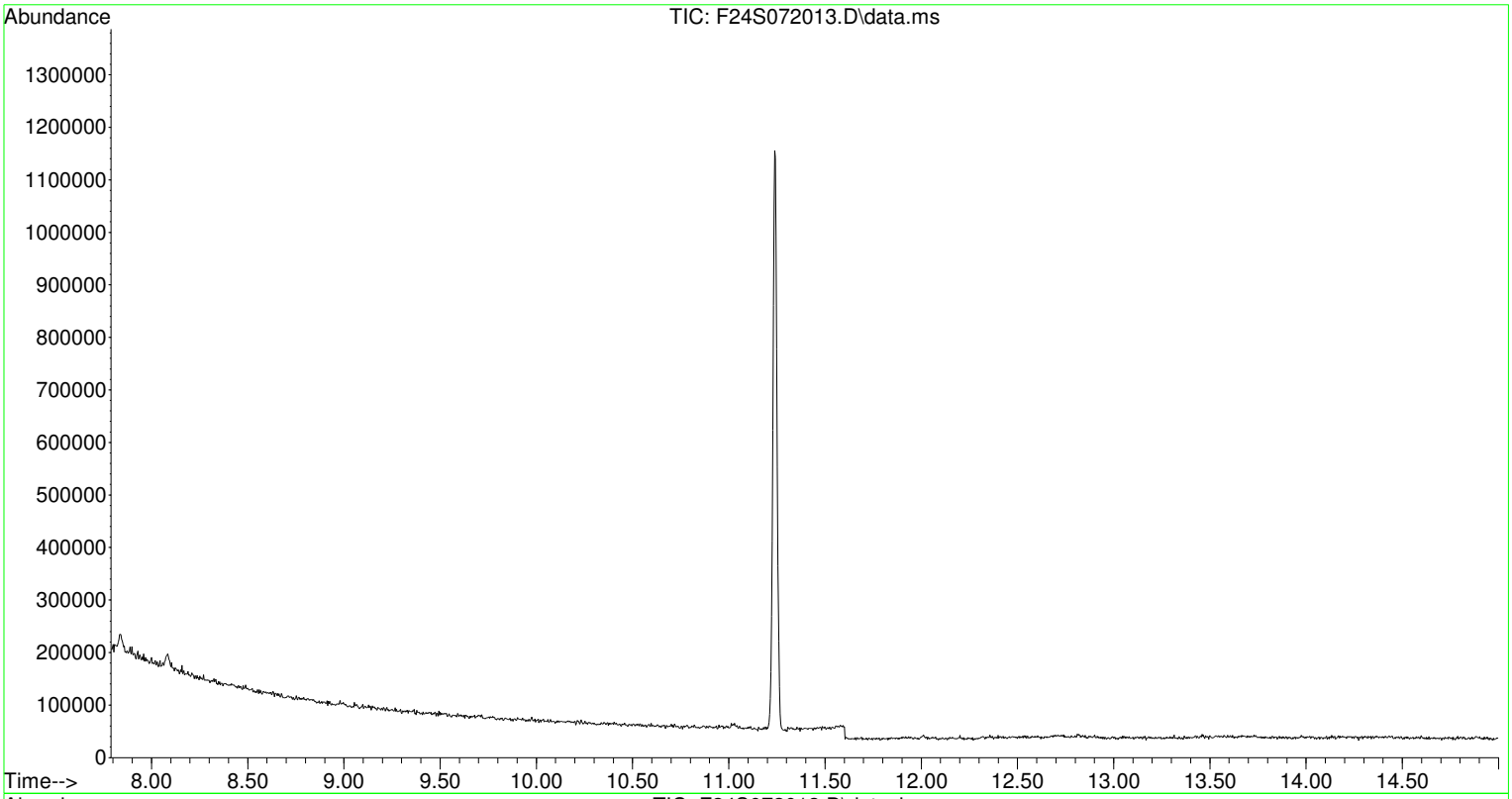
Quant Time: Mar 13 07:36:31 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324diox.M
Quant Title :
QLast Update : Thu Oct 26 10:08:18 2023
Response via : Initial Calibration

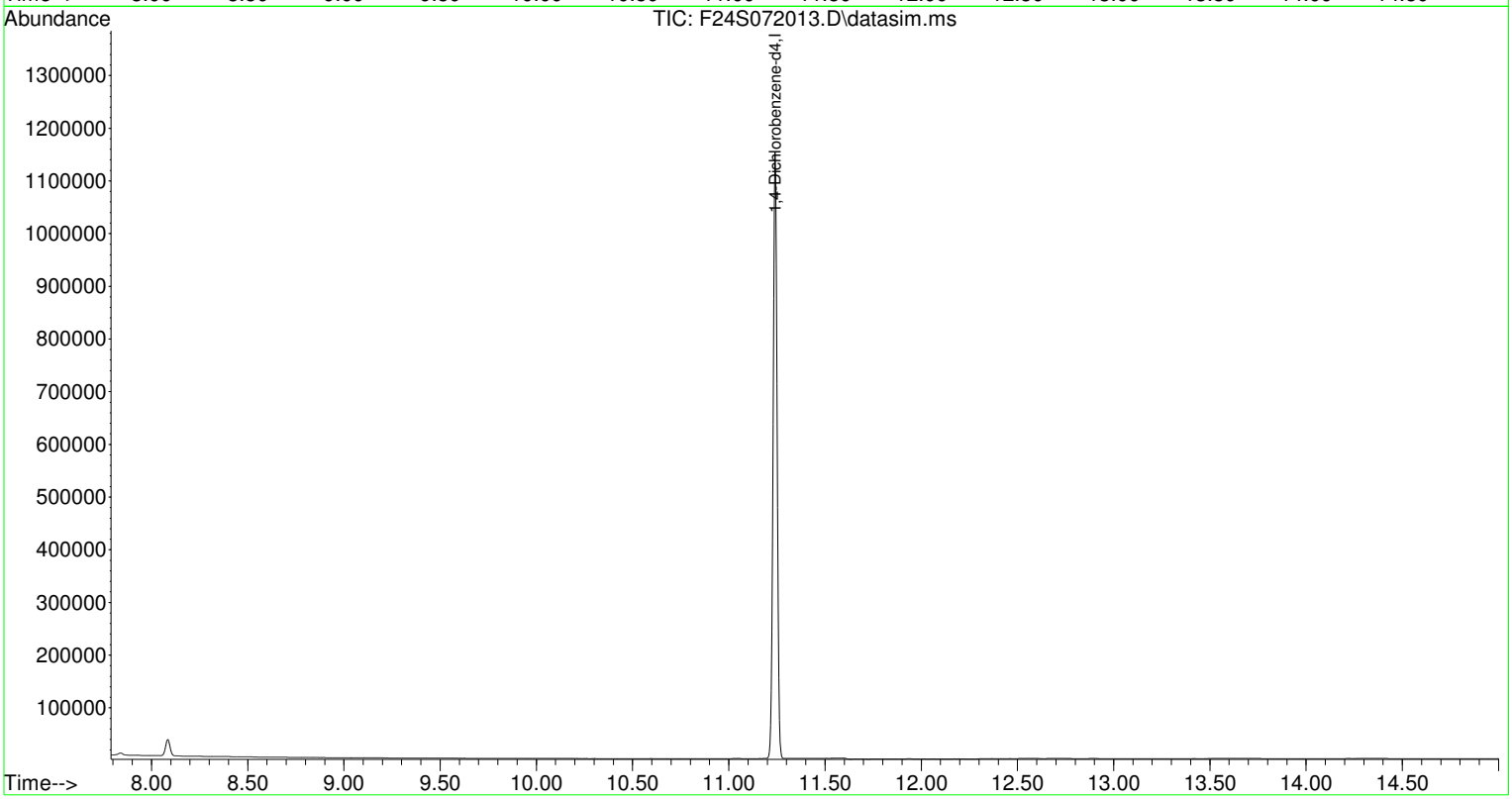
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	11.240	150	840614	10.000	ug/mL	-0.02
3) 1,4-Dioxane-d8 (I.S.)	0.000	96	0m	10.000	ug/mL	-8.08
System Monitoring Compounds						
2) 1,4-Dioxane-d8	8.086	96	25996	0.000	ug/mL	0.03
Target Compounds						Qvalue
4) 1,4-Dioxane	0.000		0	N.D.		

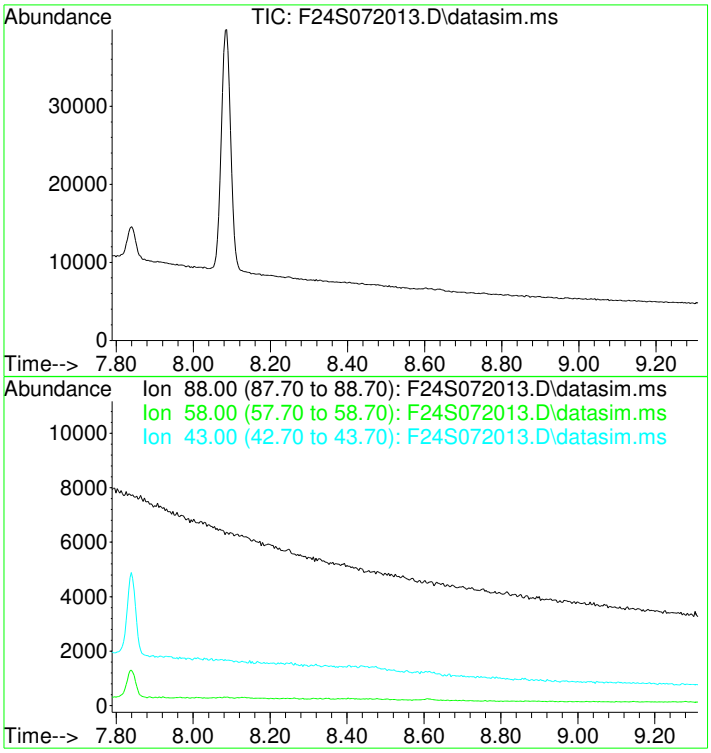
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\F031224D\
Data File : F24S072013.D
Acq On : 12 Mar 2024 6:57 pm
Operator : GJB
Sample : D8 1.0 Inst : GCMSSV6
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 13 07:36:31 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324diox.M
Quant Title :
QLast Update : Thu Oct 26 10:08:18 2023
Response via : Initial Calibration







#4
1,4-Dioxane
Concen: N.D.
Expected RT: 8.13 min

Lab File: F24S072013.D
Acq: 12 Mar 2024 6:57 pm

Tgt Ion: 88

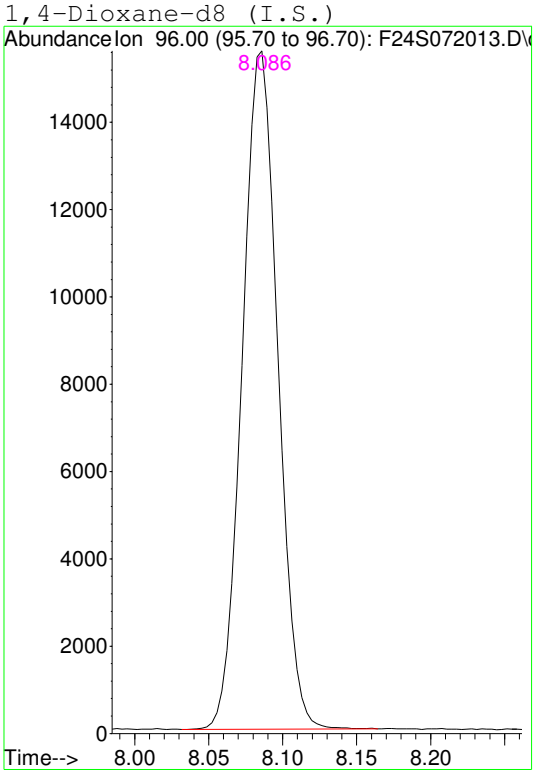
Sig	Exp Ratio
88	100
58	71.5
43	34.1

820

Data Path : C:\msdchem\1\data\F031224D\
Data File : F24S072013.D
Acq On : 12 Mar 2024 6:57 pm
Operator : GJB
Sample : D8 1.0
Misc :

Quant Time : Wed Mar 13 07:36:31 2024
Quant Method : C:\msdchem\1\methods\DQ031324diox.M
QLast Update : Thu Oct 26 10:08:18 2023

Original Integration
1,4-Dioxane-d8 (I.S.)



Original Int. Results

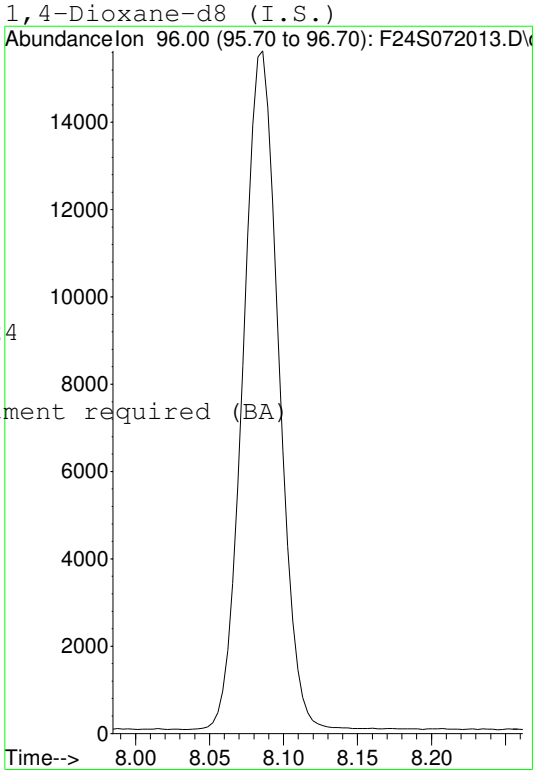
RT : 8.09
Area : 25996
Amount: 10

Manual Int. Results

Wed Mar 13 07:36:31 2024

MIuser: GJB
Reason: Baseline adjustment required (BA)
RT : 0.00
Area : 0
Amount: 10

Manual Integration
1,4-Dioxane-d8 (I.S.)



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\F031224D\
Data File : F24S072014.D
Acq On : 12 Mar 2024 7:18 pm
Operator : GJB
Sample : D8 2.5 Inst : GCMSSV6
Misc :
ALS Vial : 14 Sample Multiplier: 1

822

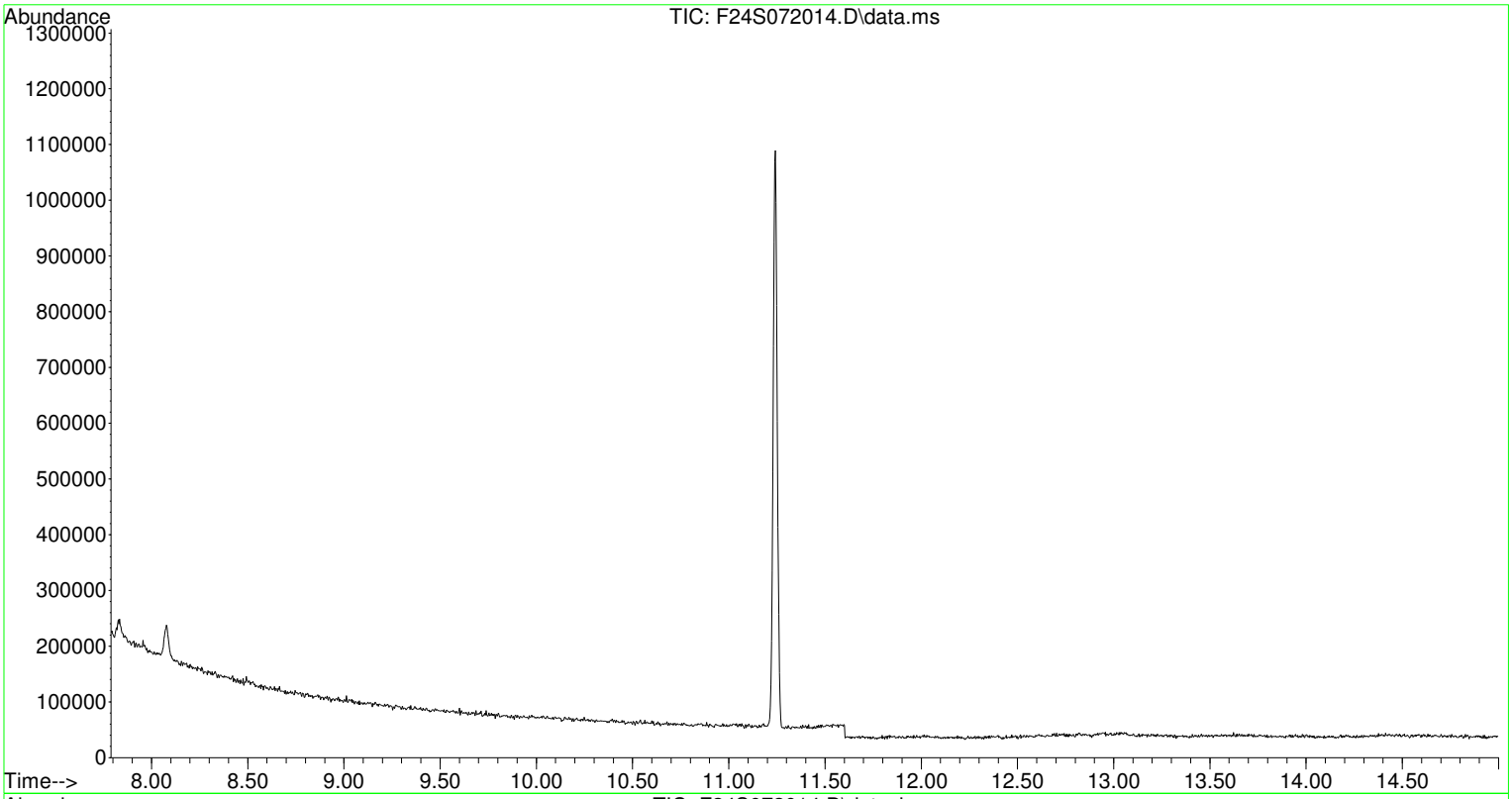
Quant Time: Mar 13 07:36:46 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324diox.M
Quant Title :
QLast Update : Thu Oct 26 10:08:18 2023
Response via : Initial Calibration

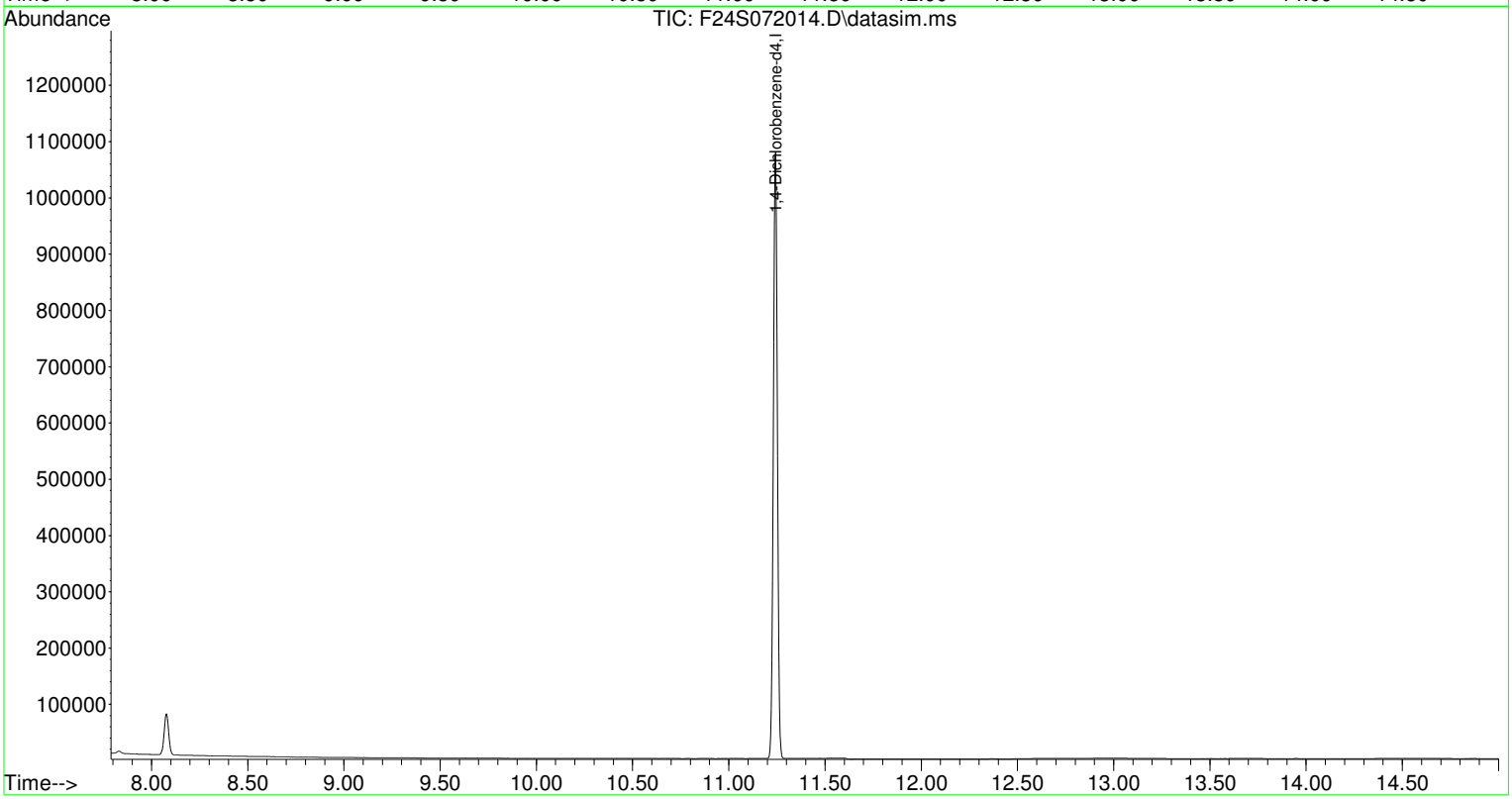
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	11.244	150	792814	10.000	ug/mL	-0.01
3) 1,4-Dioxane-d8 (I.S.)	0.000	96	0m	10.000	ug/mL	-8.08
System Monitoring Compounds						
2) 1,4-Dioxane-d8	8.076	96	60760	0.000	ug/mL	0.02
Target Compounds						Qvalue
4) 1,4-Dioxane	0.000		0	N.D.	d	

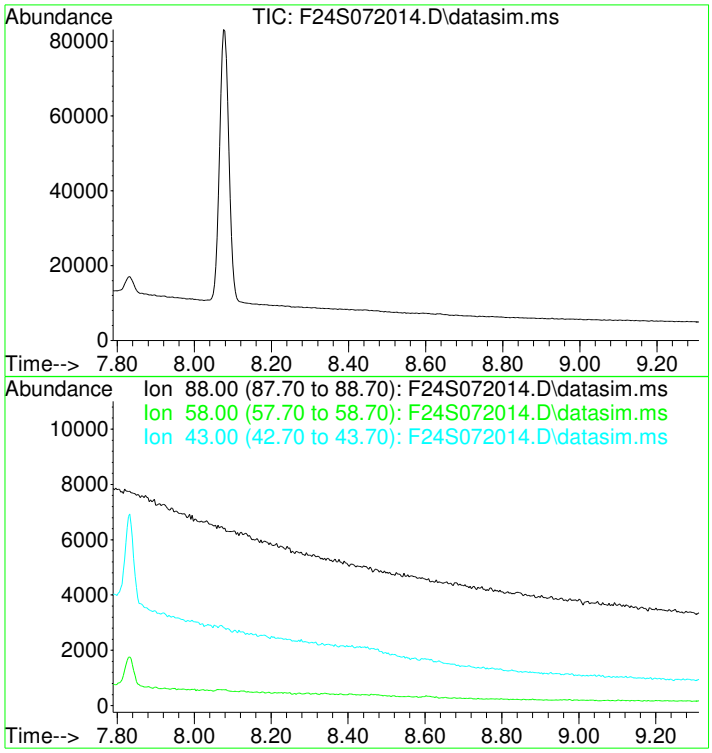
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\F031224D\
Data File : F24S072014.D
Acq On : 12 Mar 2024 7:18 pm
Operator : GJB
Sample : D8 2.5 Inst : GCMSSV6
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 13 07:36:46 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324diox.M
Quant Title :
QLast Update : Thu Oct 26 10:08:18 2023
Response via : Initial Calibration







#4
1,4-Dioxane
Concen: N.D.
Expected RT: 8.13 min

Lab File: F24S072014.D
Acq: 12 Mar 2024 7:18 pm

Tgt Ion: 88

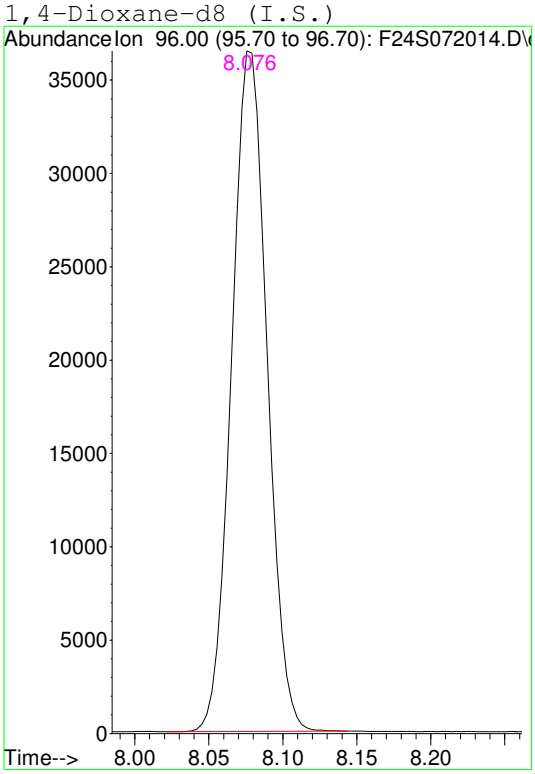
Sig	Exp Ratio
88	100
58	71.5
43	34.1

824

Data Path : C:\msdchem\1\data\F031224D\
Data File : F24S072014.D
Acq On : 12 Mar 2024 7:18 pm
Operator : GJB
Sample : D8 2.5
Misc :

Quant Time : Wed Mar 13 07:36:46 2024
Quant Method : C:\msdchem\1\methods\DQ031324diox.M
QLast Update : Thu Oct 26 10:08:18 2023

Original Integration
1,4-Dioxane-d8 (I.S.)



Original Int. Results

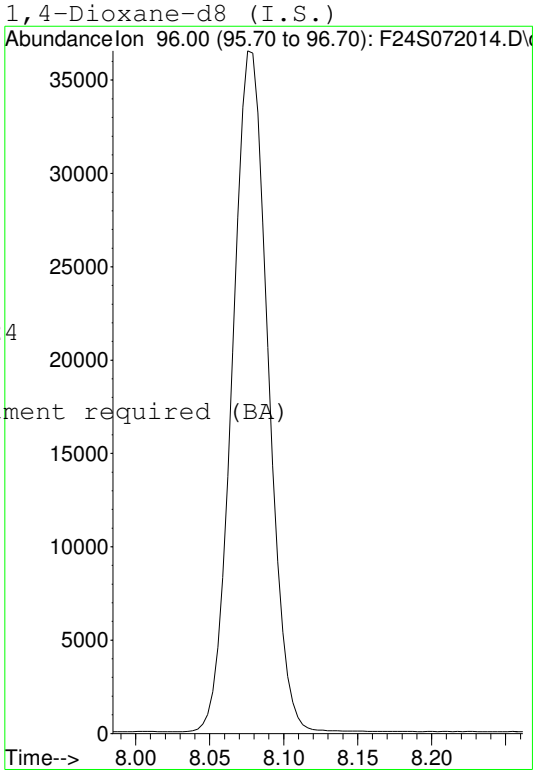
RT : 8.08
Area : 60760
Amount: 10

Manual Int. Results

Wed Mar 13 07:36:42 2024

MIuser: GJB
Reason: Baseline adjustment required (BA)
RT : 0.00
Area : 0
Amount: 10

Manual Integration
1,4-Dioxane-d8 (I.S.)



Quantitation Report (QT Reviewed)

826

Data Path : C:\msdchem\1\data\F031224D\
Data File : F24S072015.D
Acq On : 12 Mar 2024 7:39 pm
Operator : GJB
Sample : D8 5.0 Inst : GCMSSV6
Misc :
ALS Vial : 15 Sample Multiplier: 1

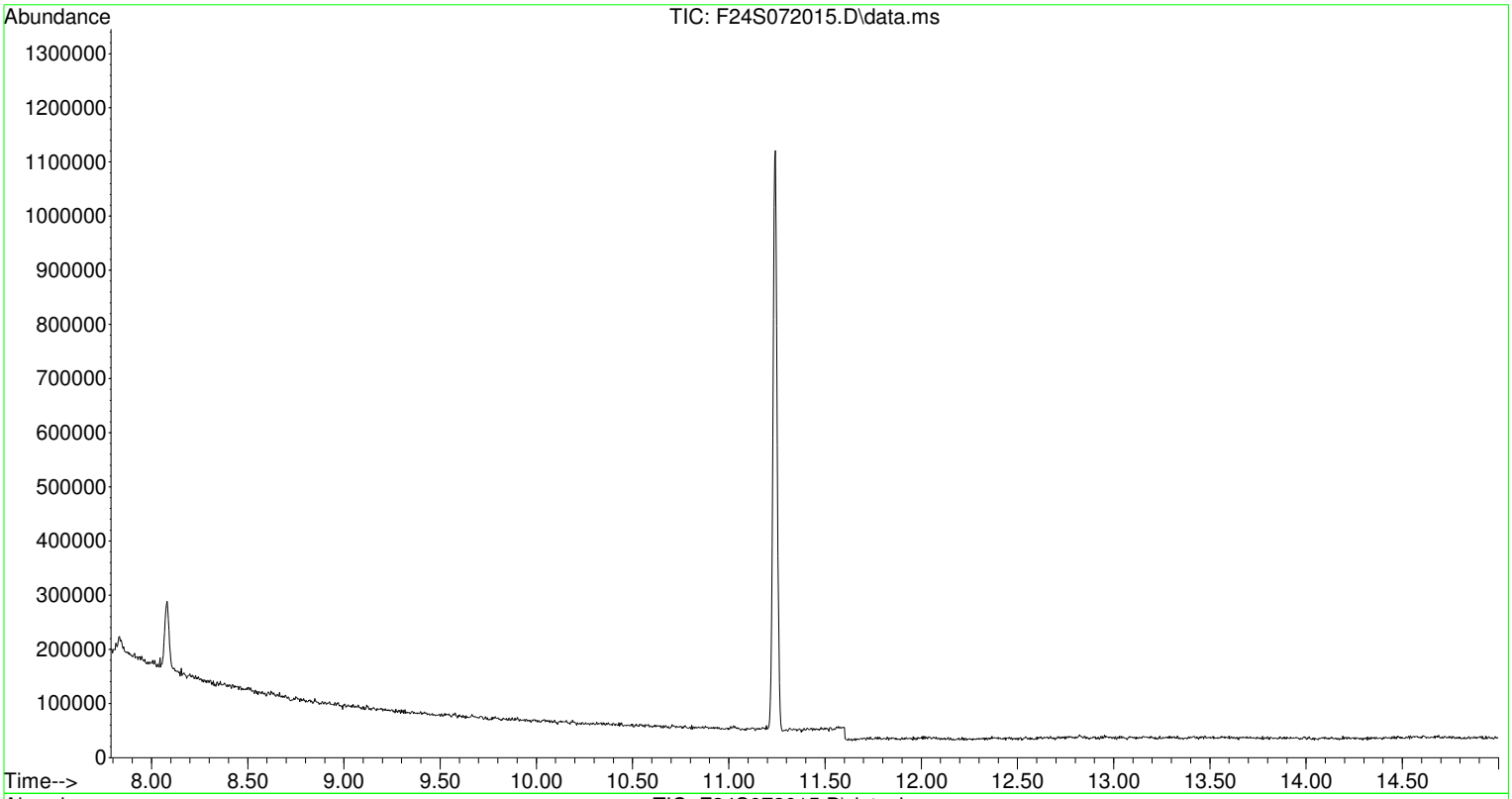
Quant Time: Mar 13 07:37:02 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324diox.M
Quant Title :
QLast Update : Thu Oct 26 10:08:18 2023
Response via : Initial Calibration

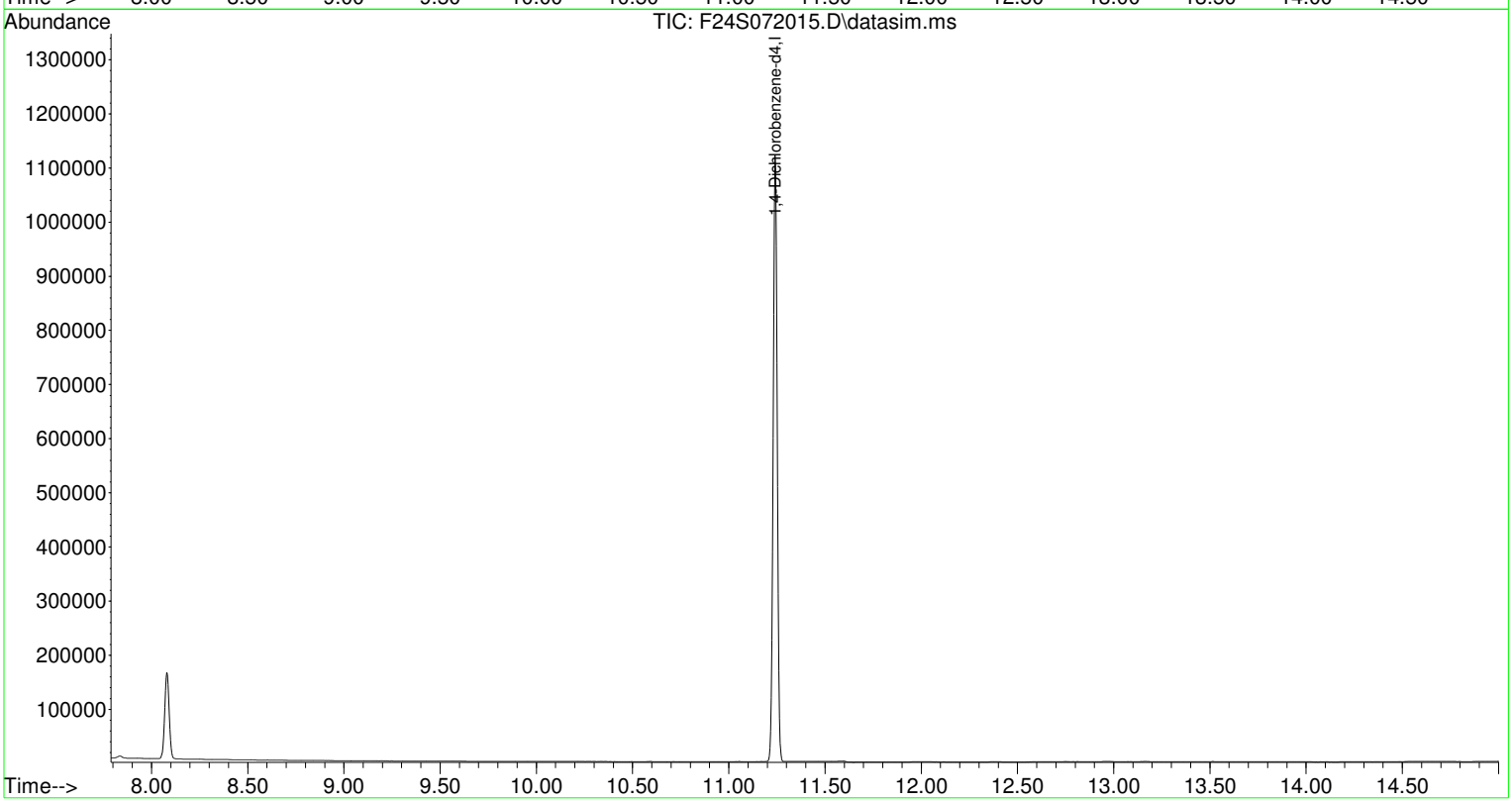
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	11.240	150	829675	10.000	ug/mL	-0.02
3) 1,4-Dioxane-d8 (I.S.)	0.000	96	0m	10.000	ug/mL	-8.08
System Monitoring Compounds						
2) 1,4-Dioxane-d8	8.079	96	131874	0.000	ug/mL	0.03
Target Compounds						Qvalue
4) 1,4-Dioxane	0.000		0	N.D.		

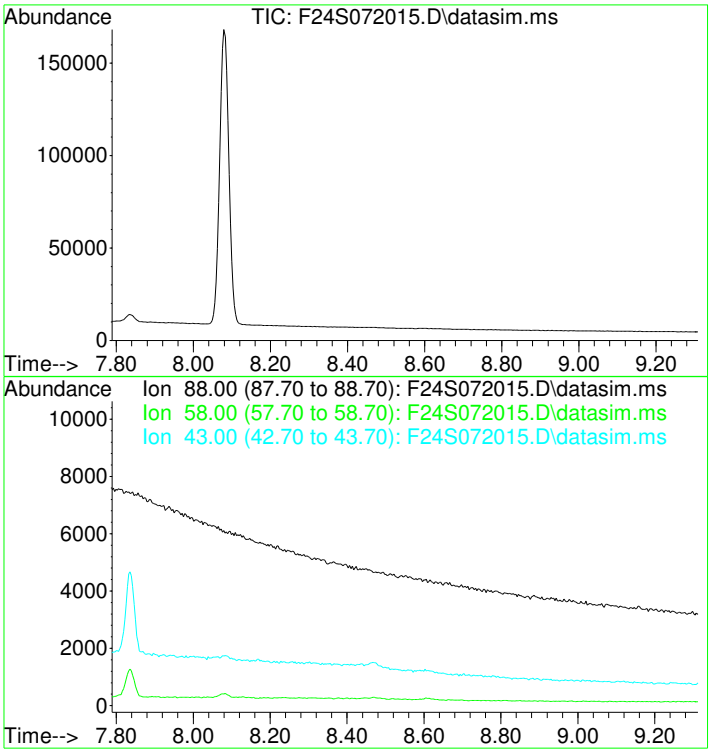
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\F031224D\
Data File : F24S072015.D
Acq On : 12 Mar 2024 7:39 pm
Operator : GJB
Sample : D8 5.0 Inst : GCMSSV6
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 13 07:37:02 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324diox.M
Quant Title :
QLast Update : Thu Oct 26 10:08:18 2023
Response via : Initial Calibration







#4
1,4-Dioxane
Concen: N.D.
Expected RT: 8.13 min

Lab File: F24S072015.D
Acq: 12 Mar 2024 7:39 pm

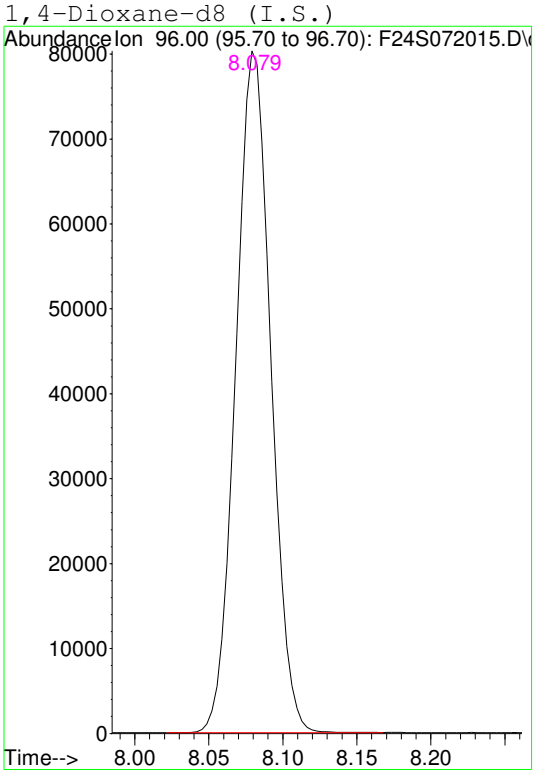
Tgt Ion: 88

Sig	Exp Ratio
88	100
58	71.5
43	34.1

Data Path : C:\msdchem\1\data\F031224D\
Data File : F24S072015.D
Acq On : 12 Mar 2024 7:39 pm
Operator : GJB
Sample : D8 5.0
Misc :

Quant Time : Wed Mar 13 07:37:02 2024
Quant Method : C:\msdchem\1\methods\DQ031324diox.M
QLast Update : Thu Oct 26 10:08:18 2023

Original Integration
1,4-Dioxane-d8 (I.S.)



Original Int. Results

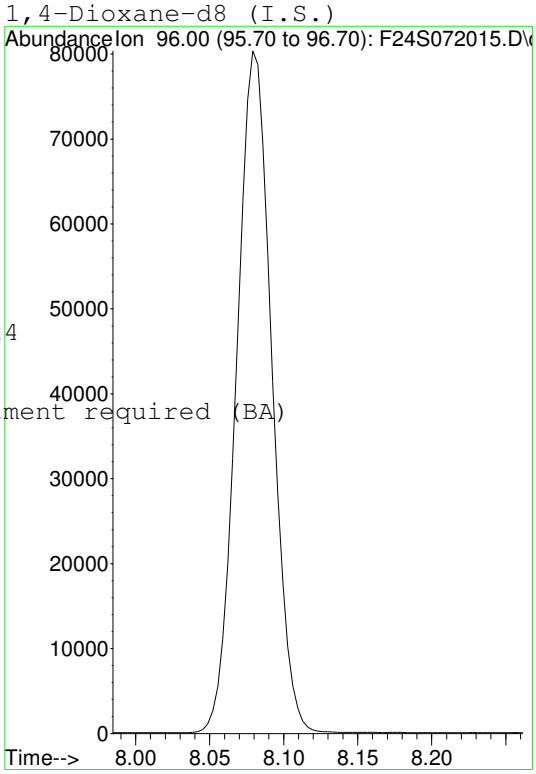
RT : 8.08
Area : 131874
Amount: 10

Manual Int. Results

Wed Mar 13 07:37:02 2024

MIuser: GJB
Reason: Baseline adjustment required (BA)
RT : 0.00
Area : 0
Amount: 10

Manual Integration
1,4-Dioxane-d8 (I.S.)



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\F031224D\
Data File : F24S072019.D
Acq On : 12 Mar 2024 9:03 pm
Operator : GJB
Sample : D8 100 Inst : GCMSSV6
Misc :
ALS Vial : 19 Sample Multiplier: 1

830

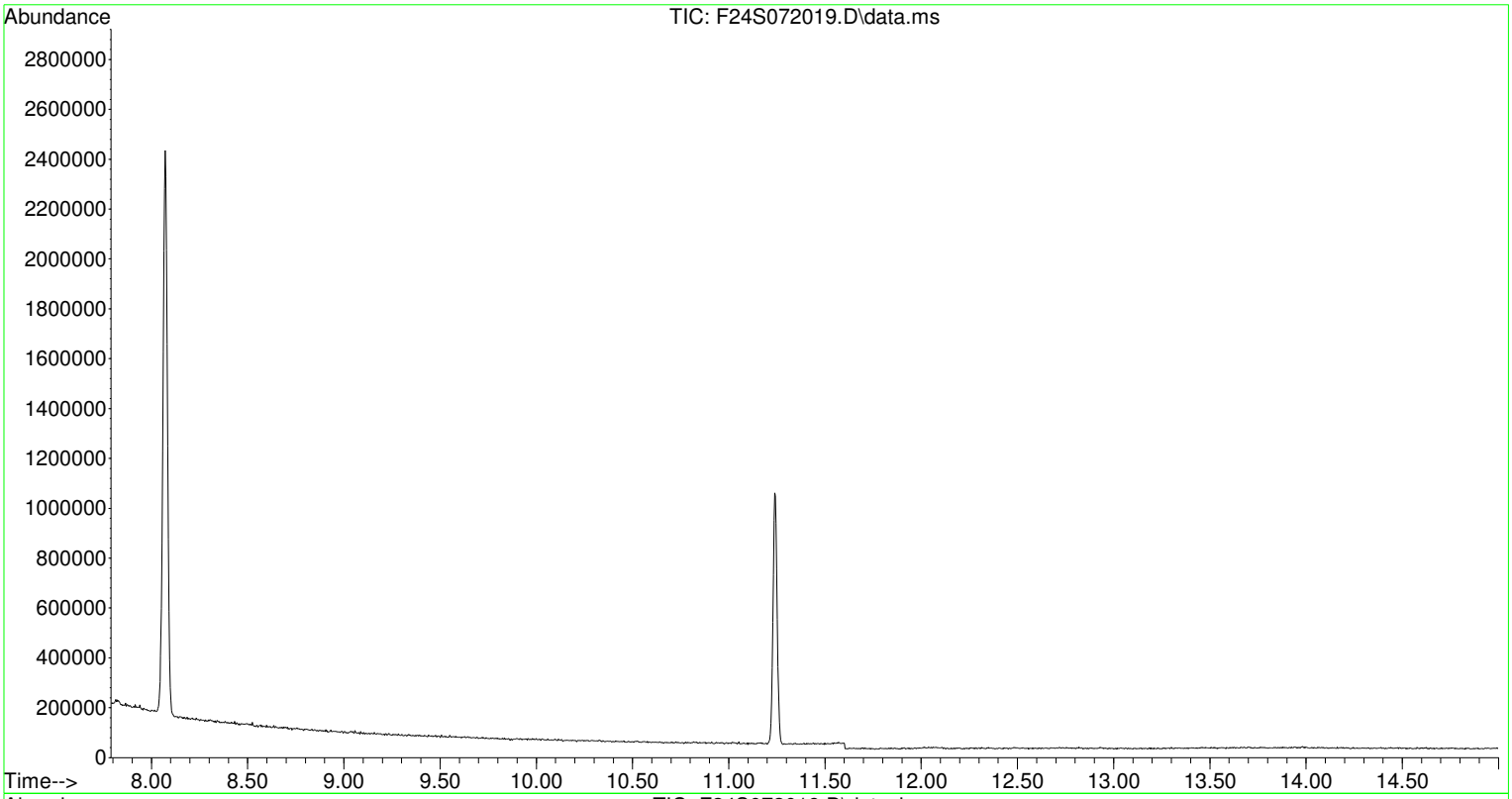
Quant Time: Mar 13 07:39:04 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324diox.M
Quant Title :
QLast Update : Thu Oct 26 10:08:18 2023
Response via : Initial Calibration

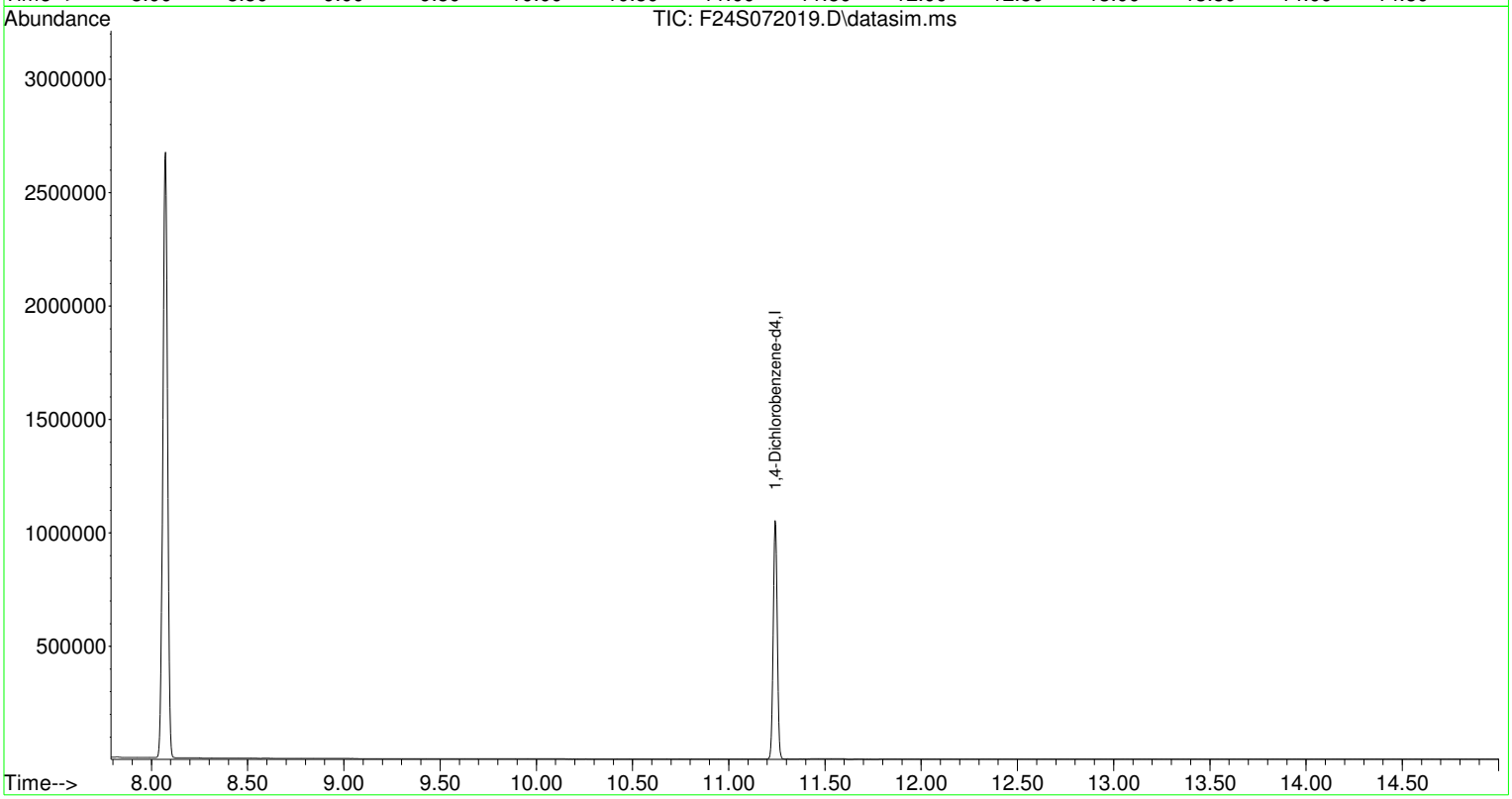
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	11.240	150	773979	10.000	ug/mL	-0.02
3) 1,4-Dioxane-d8 (I.S.)	0.000	96	0m	10.000	ug/mL	-8.08
System Monitoring Compounds						
2) 1,4-Dioxane-d8	8.072	96	2281323	0.000	ug/mL	0.02
Target Compounds						Qvalue
4) 1,4-Dioxane	0.000		0	N.D.	d	

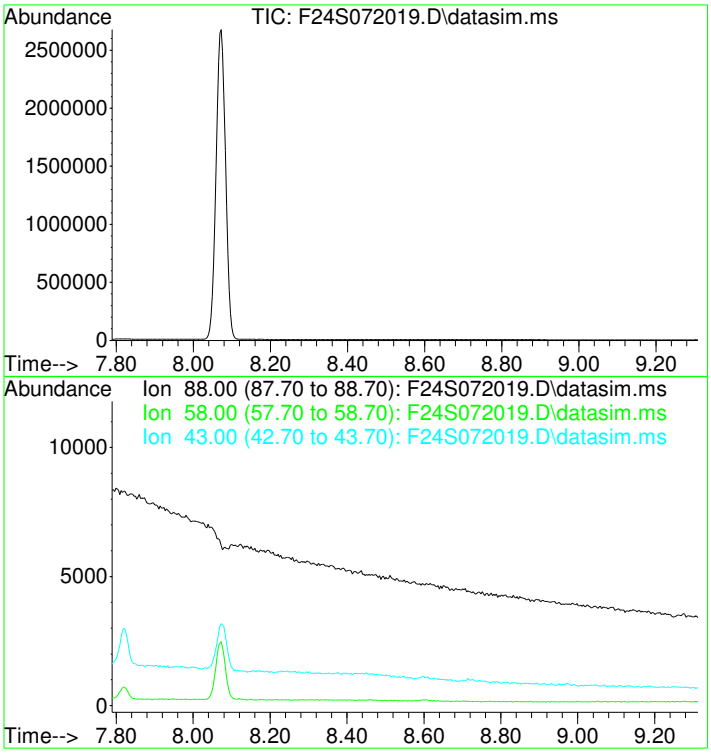
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\F031224D\
Data File : F24S072019.D
Acq On : 12 Mar 2024 9:03 pm
Operator : GJB
Sample : D8 100 Inst : GCMSSV6
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 13 07:39:04 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324diox.M
Quant Title :
QLast Update : Thu Oct 26 10:08:18 2023
Response via : Initial Calibration







#4
1,4-Dioxane
Concen: N.D.
Expected RT: 8.13 min

Lab File: F24S072019.D
Acq: 12 Mar 2024 9:03 pm

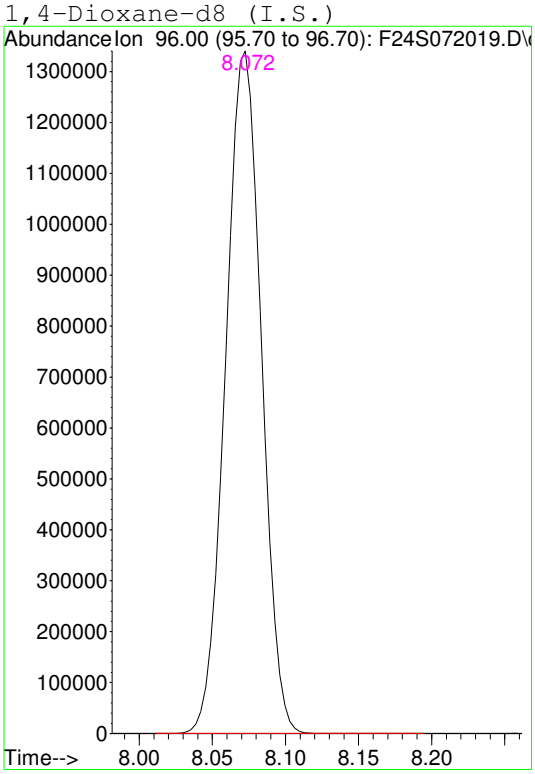
Tgt Ion: 88

Sig	Exp Ratio
88	100
58	71.5
43	34.1

Data Path : C:\msdchem\1\data\F031224D\
Data File : F24S072019.D
Acq On : 12 Mar 2024 9:03 pm
Operator : GJB
Sample : D8 100
Misc :

Quant Time : Wed Mar 13 07:39:04 2024
Quant Method : C:\msdchem\1\methods\DQ031324diox.M
QLast Update : Thu Oct 26 10:08:18 2023

Original Integration
1,4-Dioxane-d8 (I.S.)



Original Int. Results

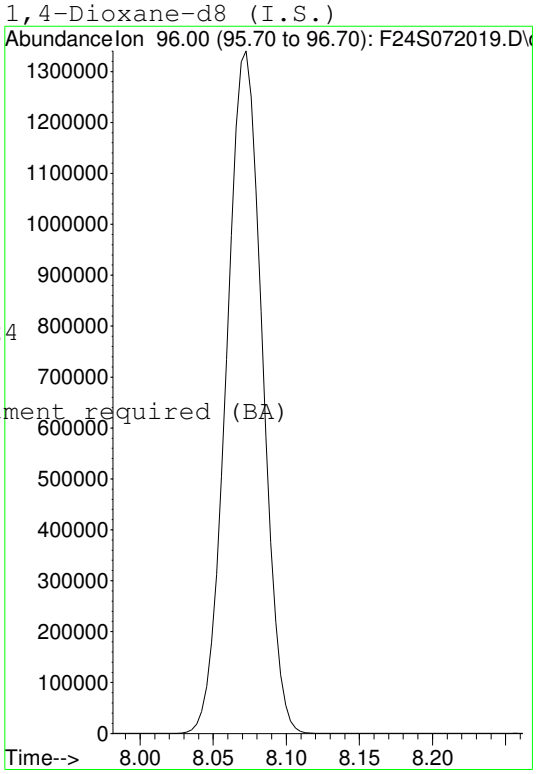
RT : 8.07
Area : 2.28132e+006
Amount: 10

Manual Int. Results

Wed Mar 13 07:39:01 2024

MIuser: GJB
Reason: Baseline adjustment required (BA)
RT : 0.00
Area : 0
Amount: 10

Manual Integration
1,4-Dioxane-d8 (I.S.)



Evaluate Continuing Calibration Report

834

Data Path : C:\msdchem\1\data\F031224D\
Data File : F24S072020.D
Acq On : 12 Mar 2024 9:23 pm
Operator : GJB
Sample : ICV Inst : GCMSSV6
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Mar 13 07:47:29 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324diox.M
Quant Title :
QLast Update : Wed Mar 13 07:46:51 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	10.000	10.000	0.0	0	-11.26#
2	S	1,4-Dioxane-d8	10.000	0.000	100.0#	0	-8.05#
3	I	1,4-Dioxane-d8 (I.S.)	10.000	10.000	0.0	90	0.00
4	T	1,4-Dioxane	10.000	9.943	0.6	99	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\F031224D\
Data File : F24S072020.D
Acq On : 12 Mar 2024 9:23 pm
Operator : GJB
Sample : ICV Inst : GCMSSV6
Misc :
ALS Vial : 20 Sample Multiplier: 1

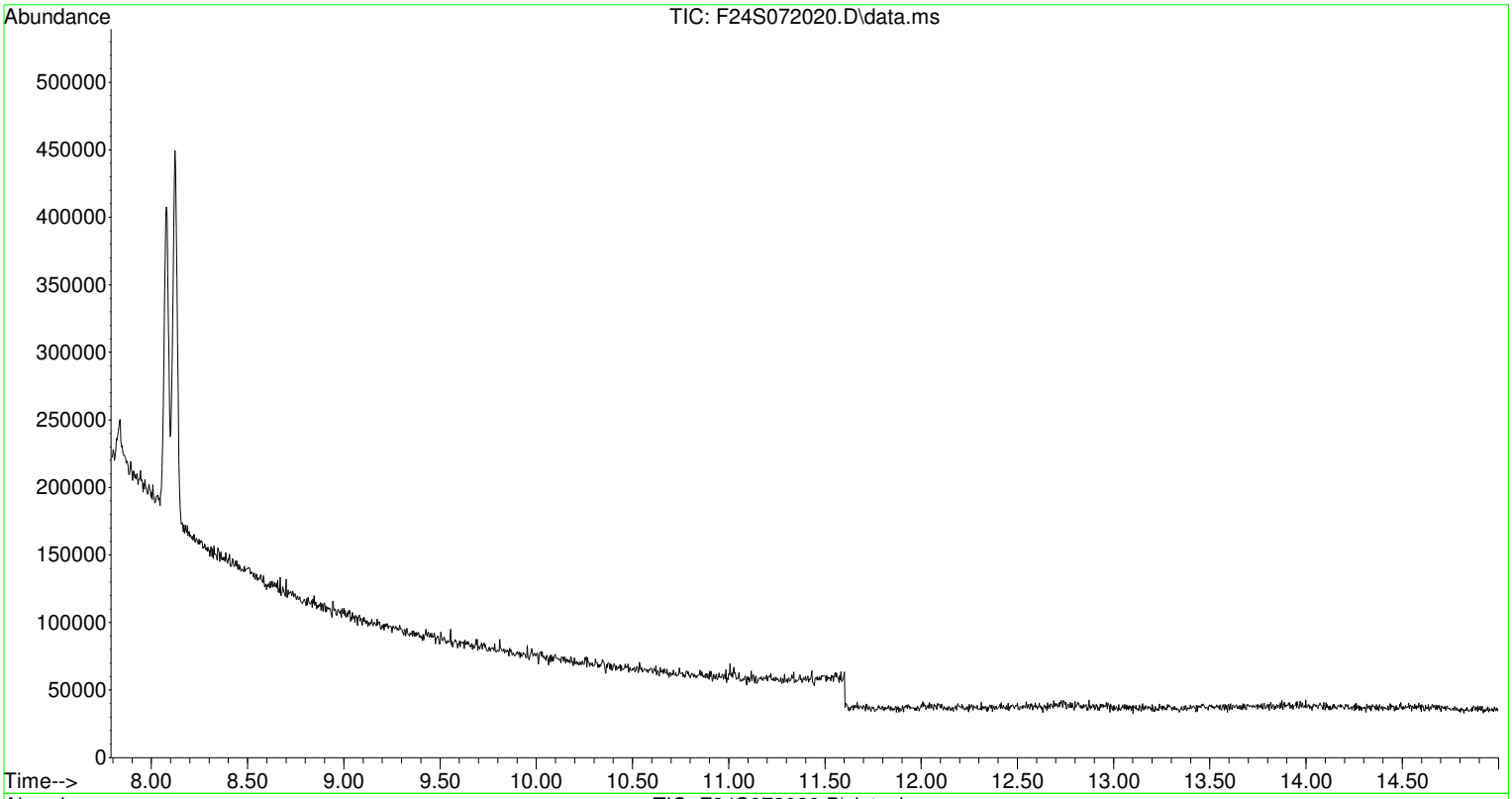
Quant Time: Mar 13 07:47:29 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324diox.M
Quant Title :
QLast Update : Wed Mar 13 07:46:51 2024
Response via : Initial Calibration

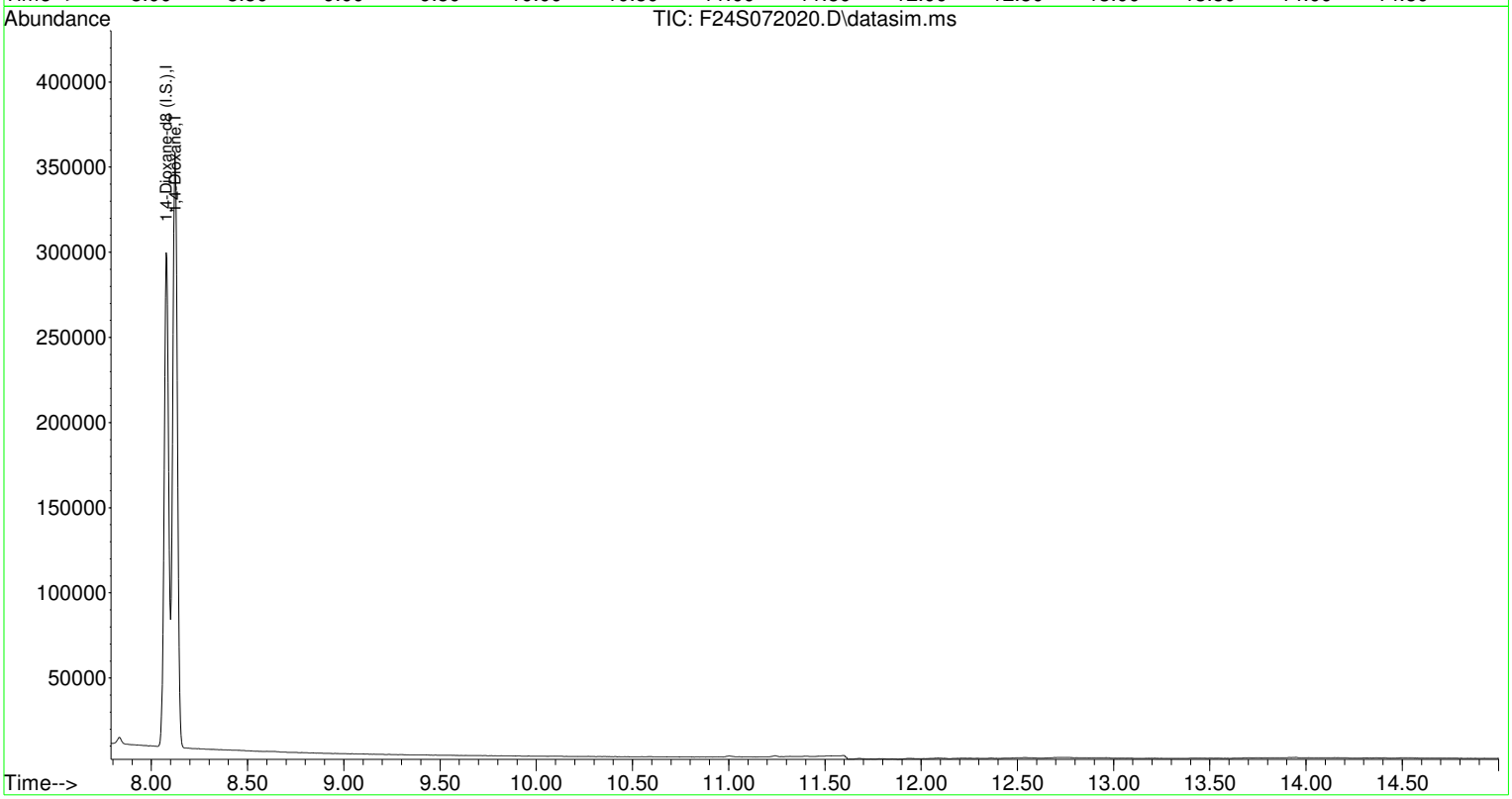
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	0.000	150	0m	10.000	ug/mL	-11.26
3) 1,4-Dioxane-d8 (I.S.)	8.076	96	238654	10.000	ug/mL	0.00
System Monitoring Compounds						
2) 1,4-Dioxane-d8	0.000	96	0d	0.000	ug/mL	
Target Compounds						Qvalue
4] 1,4-Dioxane	8.124	88	278864	9.943	ug/mL	98

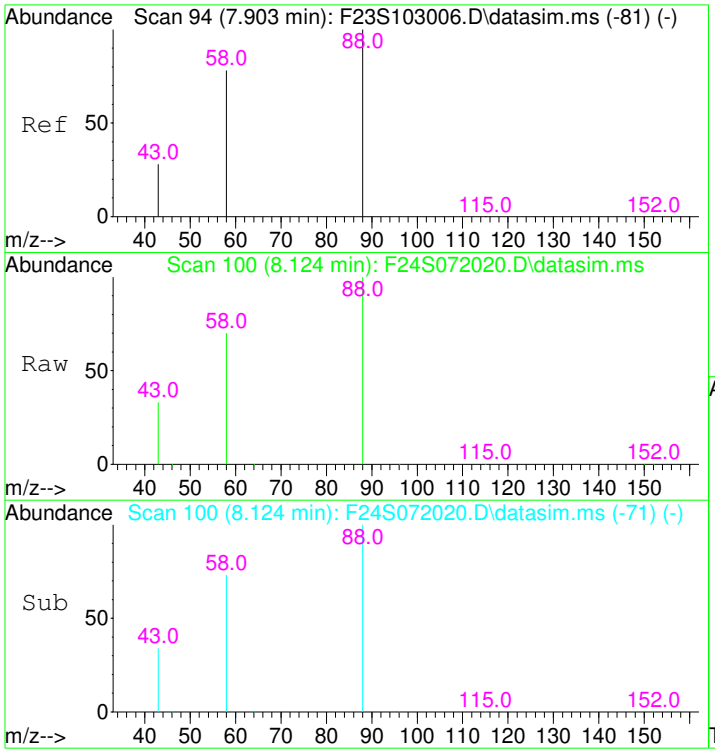
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\F031224D\
Data File : F24S072020.D
Acq On : 12 Mar 2024 9:23 pm
Operator : GJB
Sample : ICV Inst : GCMSSV6
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Mar 13 07:47:29 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324diox.M
Quant Title :
QLast Update : Wed Mar 13 07:46:51 2024
Response via : Initial Calibration



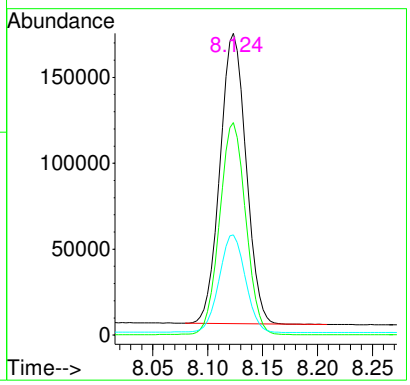




#4
1,4-Dioxane
Concen: 9.94 ug/mL
RT: 8.124 min Scan# 100
Delta R.T. -0.003 min
Lab File: F24S072020.D
Acq: 12 Mar 2024 9:23 pm

Tgt Ion: 88 Resp: 278864

Ion	Ratio	Lower	Upper
88	100		
58	73.2	50.0	93.0
43	33.8	23.9	44.3



C:\msdchem\1\data\F031324D\

Date	Filename	Lab ID	Sample Info
13 Mar 2024 9:55 am	F24S073001.D	DIOX TUNE	ST 24A0762 EX 071624
13 Mar 2024 10:23 am	F24S073002.D	DIOX 10 ug/mL	ST 24B0255 EX 042224
13 Mar 2024 10:45 am	F24S073003.D	DIOX D8 10 ug/mL	ST 24A0106 EX 042224
13 Mar 2024 11:15 am	F24S073004.D	B367632-BS1	IS 23J0864 EX 041024
13 Mar 2024 11:37 am	F24S073005.D	B367632-BSD1	IS 24A0105 EX 061024
13 Mar 2024 12:39 pm	F24S073007.D	D8 10	
13 Mar 2024 1:01 pm	F24S073008.D	D8 25	
13 Mar 2024 1:22 pm	F24S073009.D	D8 50	

DATA ANALYSIS PARAMETERS

Method Name: C:\msdchem\1\methods\DQ031324dioxB.M

Percent Report Settings

Sort By: Signal

Output Destination
    Screen: No
    Printer: No
    File: No

Integration Events: Meth Default

Generate Report During Run Method: Yes

Signal Correlation Window: 0.020

Qualitative Report Settings

Peak Location of Unknown: Apex

Library to Search	Minimum Quality
C:\Database\NIST08.L	0

Integration Events: Meth Default

Report Type: Summary

Output Destination
    Screen: No
    Printer: No
    File: No

Generate Report During Run Method: Yes

Quantitative Report Settings

Report Type: Detailed

Output Destination
    Screen: No
    Printer: No
    File: No

Generate Report During Run Method: Yes

Calibration Last Updated: Wed Mar 13 13:38:20 2024

Reference Window: 2.00 Minutes
Non-Reference Window: 1.00 Minutes
Correlation Window: 0.10 minutes
Default Multiplier: 1.00
Default Sample Concentration: 0.00

Compound Information

---

1) 1,4-Dichlorobenzene-d4 (ISTD)

Ret. Time 11.257 min., Extract & Integrate from 11.157 to 11.357 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt -150.00			*** METH DEFAULT ***
Q1 152.00	64.30	30.0	*** METH DEFAULT ***
Q2 115.00	36.20	30.0	*** METH DEFAULT ***

Lvl ID	Conc (ug/mL)	Response
0.2	10.000	821854
1.0	10.000	840614
2.5	10.000	792814
5.0	10.000	829675
10	10.000	744319
25	10.000	823290
50	10.000	809973
100	10.000	773979

Qualifier Peak Analysis ON ISTD conc: 10.000 ug/mL
Curve Fit: Avg. RF
---

2) 1,4-Dioxane-d8 ( )

Ret. Time 8.052 min., Extract & Integrate from 7.923 to 8.233 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt -96.00			*** METH DEFAULT ***
Q1 64.00	72.70	30.0	*** METH DEFAULT ***
Q2 46.00	25.80	30.0	*** METH DEFAULT ***

Lvl ID	Conc (ug/mL)	Response
0.2	0.200	5588
1.0	1.000	25996
2.5	2.500	60760
5.0	5.000	131874
10	10.000	234039
25	25.000	600588
50	50.000	1173294
100	100.000	2281323

Qualifier Peak Analysis ON
Curve Fit: Avg. RF
---

3) 1,4-Dioxane-d8 (I.S.) (ISTD)

Ret. Time 8.076 min., Extract & Integrate from 7.976 to 8.255 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt -96.00			*** METH DEFAULT ***
Q1 64.00	73.00	30.0	*** METH DEFAULT ***
Q2 46.00	25.80	30.0	*** METH DEFAULT ***

Lvl ID	Conc (ug/mL)	Response
0.2	10.000	226264
1.0	10.000	220566

2.5	10.000	231742
5.0	10.000	257528
10	10.000	265724
25	10.000	258833
50	10.000	251696
100	10.000	229352

Qualifier Peak Analysis ON ISTD conc: 10.000 ug/mL
Curve Fit: Avg. RF

---

4) 1,4-Dioxane ( )

Ret. Time 8.120 min., Extract & Integrate from 8.020 to 8.304 min.

Signal	Rel Resp.	Pct. Unc.(rel)	Integration
Tgt -88.00			*** METH DEFAULT ***
Q1 58.00	70.90	30.0	*** METH DEFAULT ***
Q2 43.00	34.30	30.0	*** METH DEFAULT ***

Lvl ID	Conc (ug/mL)	Response
0.2	0.200	6667
1.0	1.000	29564
2.5	2.500	64506
5.0	5.000	144781
10	10.000	282160
25	25.000	713681
50	50.000	1365933
100	100.000	2523639

Qualifier Peak Analysis ON
Curve Fit: Avg. RF

END OF DATA ANALYSIS PARAMETERS

Wed Mar 13 13:43:03 2024

Response Factor Report GCMSSV6

Method Path : C:\msdchem\1\methods\
Method File : DQ031324dioxB.M
Title :
Last Update : Wed Mar 13 13:38:20 2024
Response Via : Initial Calibration

Calibration Files
0.2 =F24S072012.D 1.0 =F24S072013.D 2.5 =F24S072014.D 5.0 =F24S072015.D 10 =F24S073007.D 25 =F24S073008.D
50 =F24S073009.D 100 =F24S072019.D

	Compound	0.2	1.0	2.5	5.0	10	25	50	100	Avg	%RSD
1) I	1,4-Dichlorobenzen...	----------ISTD----------									
2) S	1,4-Dioxane-d8	0.340	0.309	0.307	0.318	0.314	0.292	0.290	0.295	0.308	5.40
3) I	1,4-Dioxane-d8 (I.S.)	----------ISTD----------									
4) T	1,4-Dioxane	1.473	1.340	1.113	1.124	1.062	1.103	1.085	1.100	1.175	12.63

(#) = Out of Range

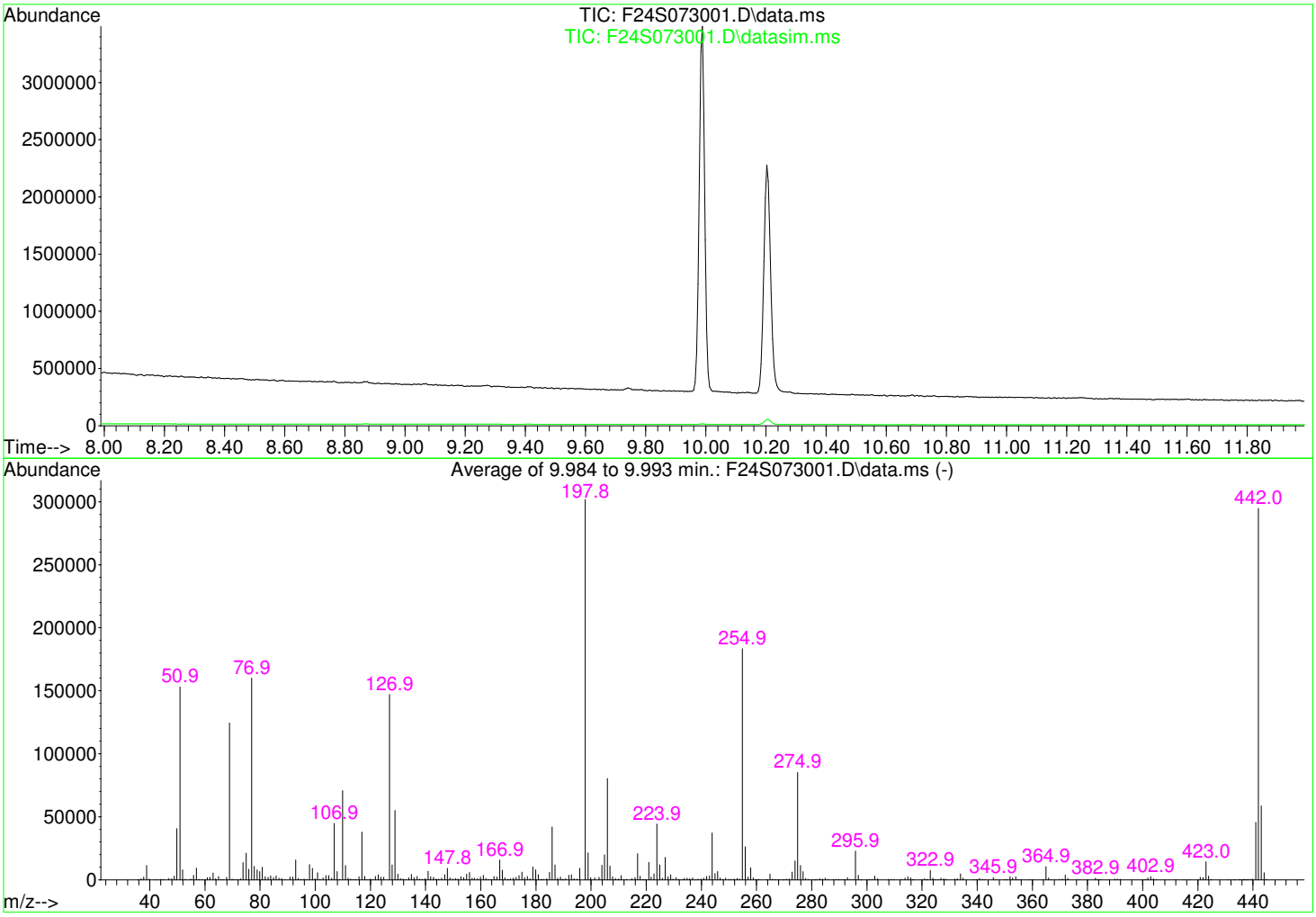
842

Data Path : C:\msdchem\1\data\F031324D\
Data File : F24S073001.D
Acq On : 13 Mar 2024 9:55 am
Operator : GJB
Sample : DIOX TUNE Inst : GCMSSV6
Misc : ST 24A0762 EX 071624
ALS Vial : 1 Sample Multiplier: 1

843

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p

Method : C:\msdchem\1\methods\8270E.M
Title : 8270E DFTPP
Last Update : Sat May 12 12:37:13 2012

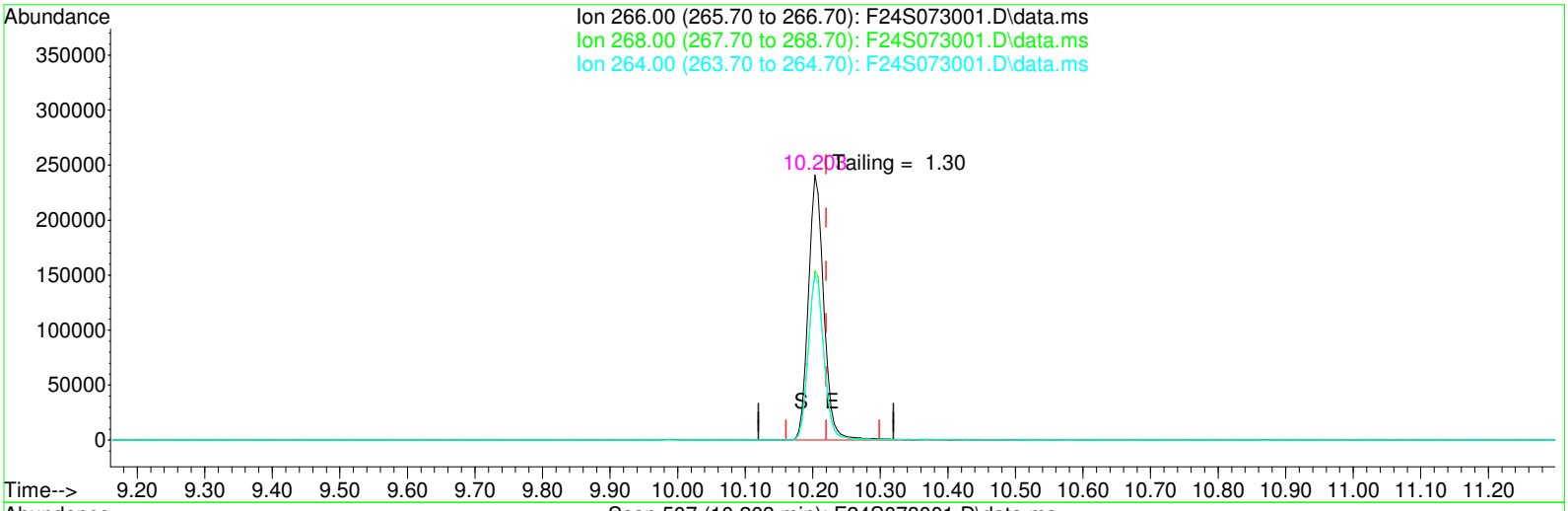


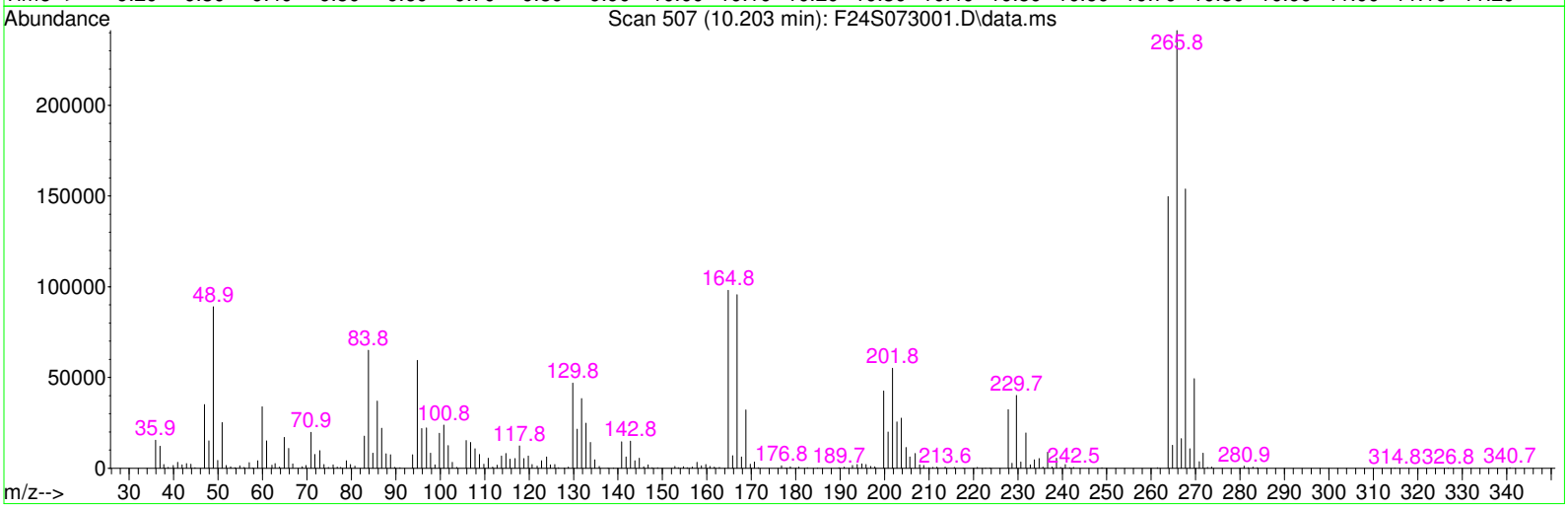
AutoFind: Scans 461, 462, 463; Background Corrected with Scan 453

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.6	1980	PASS
69	69	100	100	100.0	124413	PASS
70	69	0.00	2	0.4	533	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	301909	PASS
199	198	5	9	7.0	21277	PASS
365	198	1	100	3.5	10526	PASS
441	443	0.01	150	77.9	45651	PASS
442	198	0.01	100	97.6	294635	PASS
443	442	15	24	19.9	58581	PASS

Data Path : C:\msdchem\1\data\F031324D\
Data File : F24S073001.D
Acq On : 13 Mar 2024 9:55 am
Operator : GJB
Sample : DIOX TUNE Inst : GCMSSV6
Misc : ST 24A0762 EX 071624
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 13 11:58:15 2024
DataAcq Meth:DT122215.M
Quant Method : C:\msdchem\1\methods\8270E.M
Quant Title : 8270E DFTPP
QLast Update : Sat May 12 12:37:13 2012
Response via : Initial Calibration





TIC: F24S073001.D\data.ms

(1) Pentachlorophenol

10.203min (-0.016) 0.000 ng/uL

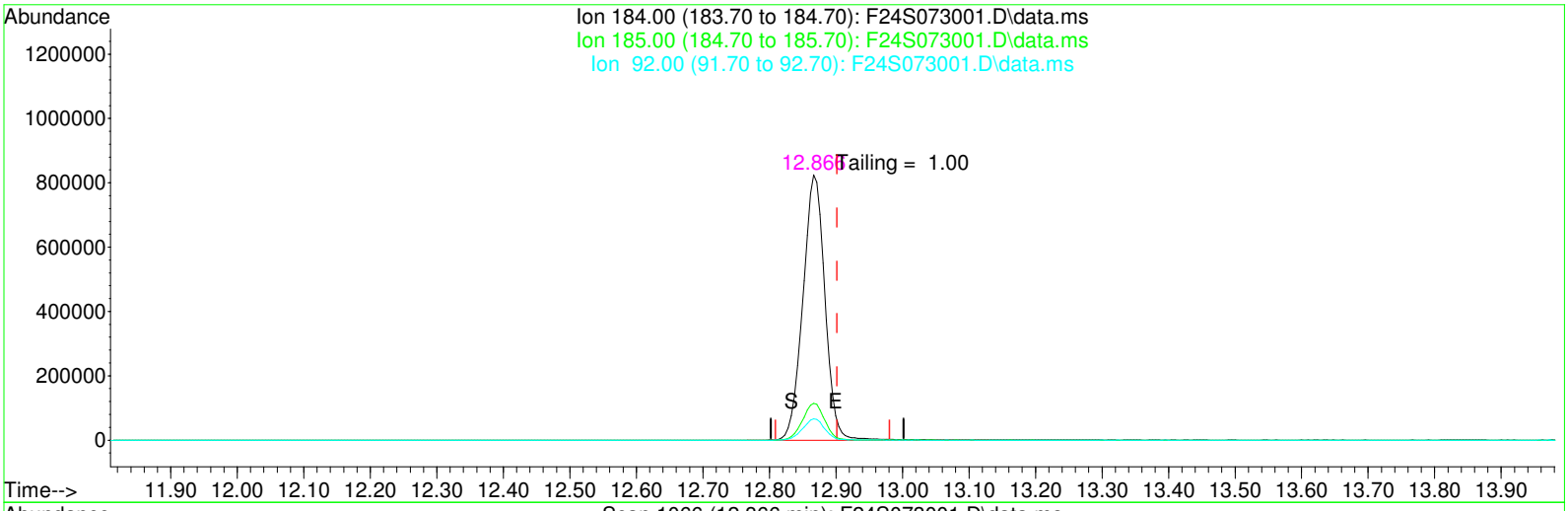
response 381220

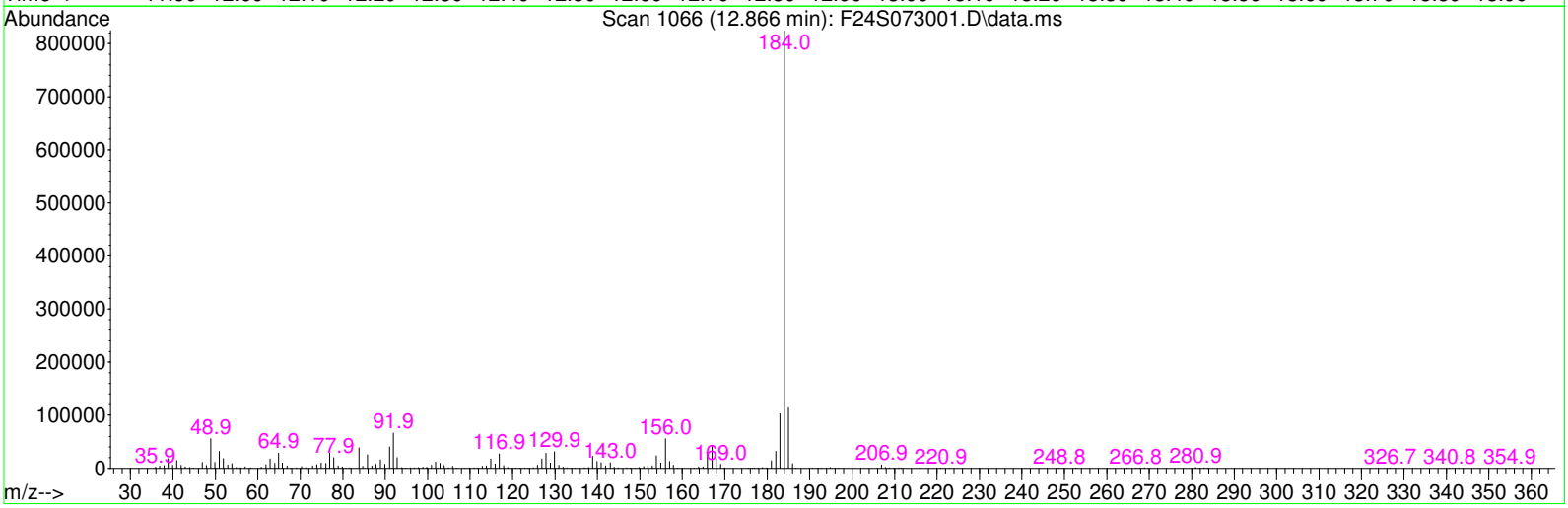
Ion	Exp%	Act%
266.00	100.00	100.00
268.00	61.40	64.23
264.00	63.70	62.54
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\F031324D\
Data File : F24S073001.D
Acq On : 13 Mar 2024 9:55 am
Operator : GJB
Sample : DIOX TUNE Inst : GCMSSV6
Misc : ST 24A0762 EX 071624
ALS Vial : 1 Sample Multiplier: 1

845

Quant Time: Mar 13 11:58:15 2024
DataAcq Meth:DT122215.M
Quant Method : C:\msdchem\1\methods\8270E.M
Quant Title : 8270E DFTPP
QLast Update : Sat May 12 12:37:13 2012
Response via : Initial Calibration





TIC: F24S073001.D\data.ms

(3) Benzidine

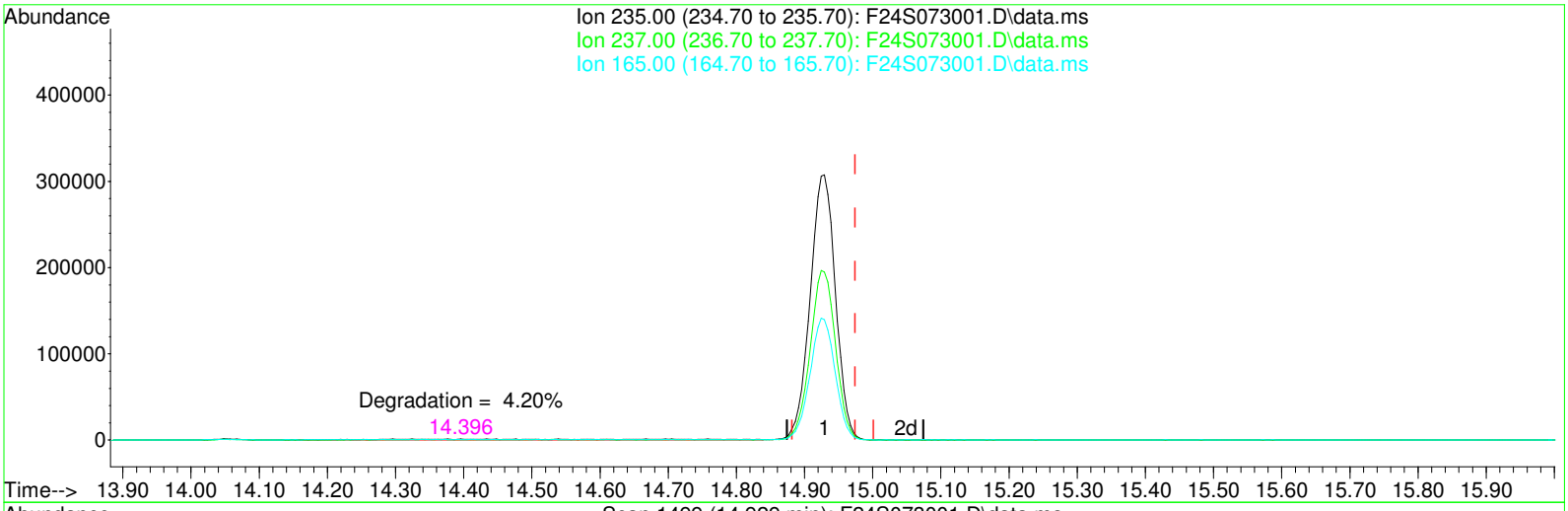
12.866min (-0.035) 0.000 ng/uL

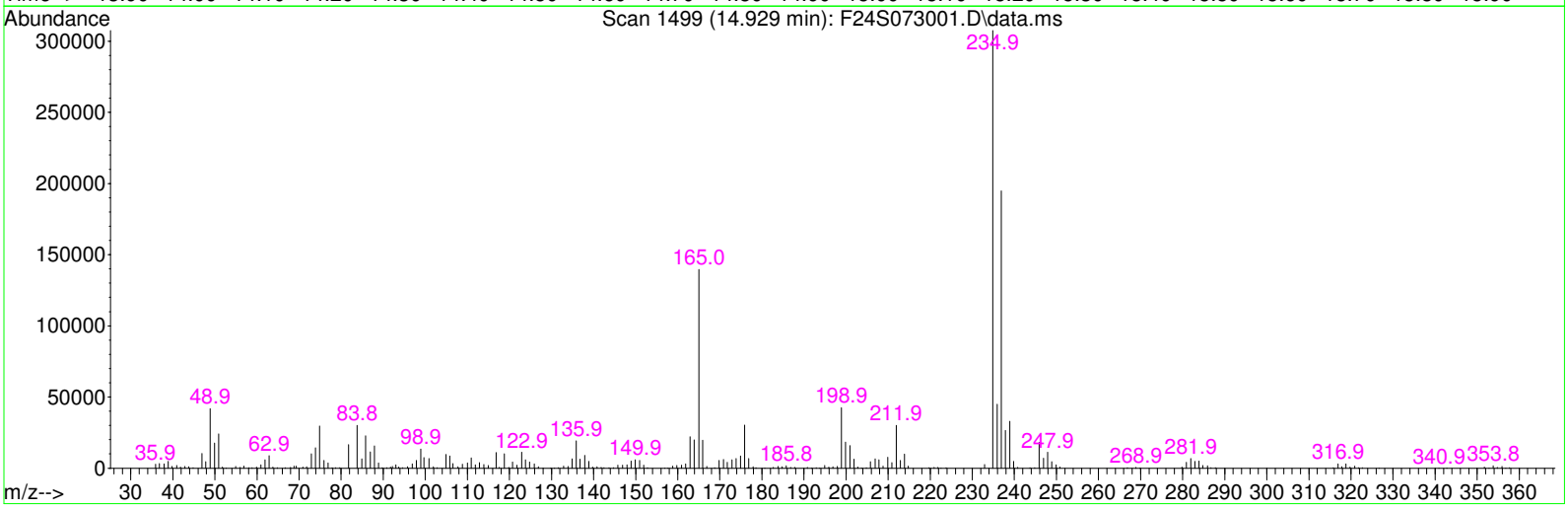
response 1883319

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	13.70	14.04
92.00	8.30	8.07
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\F031324D\
Data File : F24S073001.D
Acq On : 13 Mar 2024 9:55 am
Operator : GJB
Sample : DIOX TUNE Inst : GCMSSV6
Misc : ST 24A0762 EX 071624
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 13 11:58:15 2024
DataAcq Meth:DT122215.M
Quant Method : C:\msdchem\1\methods\8270E.M
Quant Title : 8270E DFTPP
QLast Update : Sat May 12 12:37:13 2012
Response via : Initial Calibration





TIC: F24S073001.D\data.ms

(4) DDT

14.929min (-0.045) 0.000 ng/uL

response 786885

Ion	Exp%	Act%
235.00	100.00	100.00
237.00	63.70	64.09
165.00	46.50	45.60
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\F031324D\
Data File : F24S073007.D
Acq On : 13 Mar 2024 12:39 pm
Operator : GJB
Sample : D8 10 Inst : GCMSSV6
Misc :
ALS Vial : 15 Sample Multiplier: 1

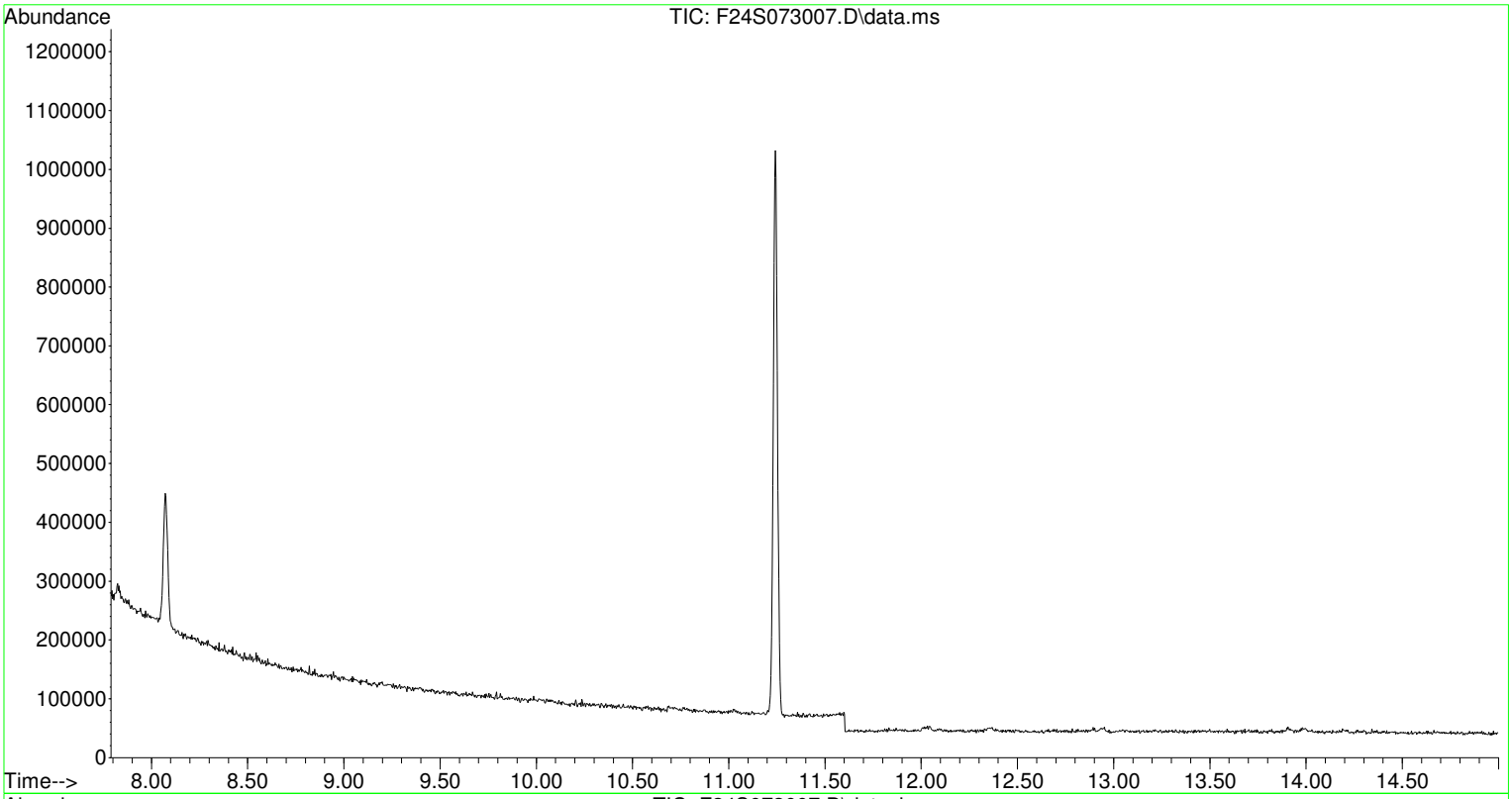
Quant Time: Mar 13 13:31:22 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324diox.M
Quant Title :
QLast Update : Wed Mar 13 07:46:51 2024
Response via : Initial Calibration

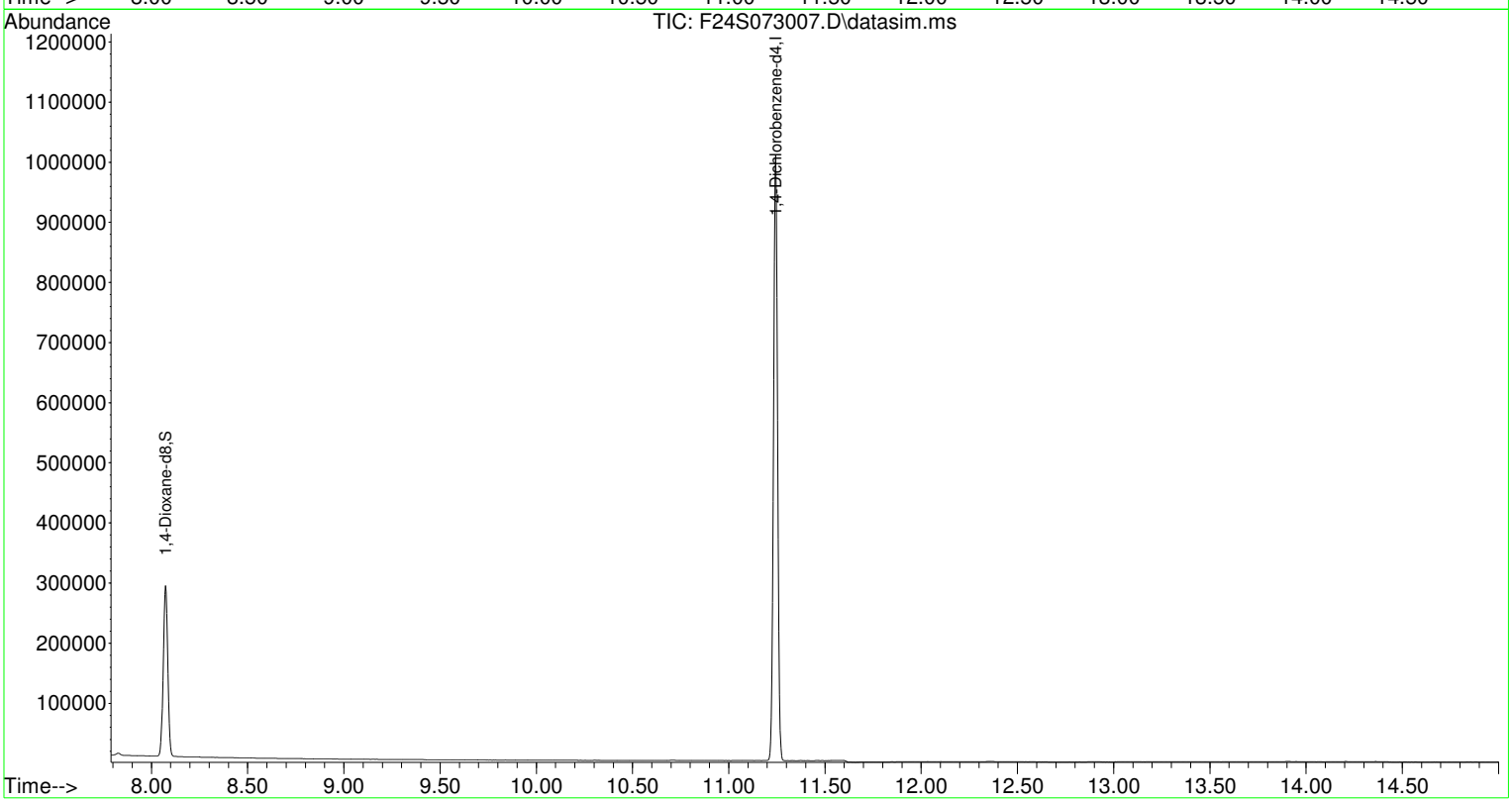
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	11.244	150	744319	10.000	ug/mL	-0.01
3) 1,4-Dioxane-d8 (I.S.)	0.000	96	0m	10.000	ug/mL	-8.08
System Monitoring Compounds						
2) 1,4-Dioxane-d8	8.073	96	234039	10.259	ug/mL	0.02
Target Compounds						Qvalue
4) 1,4-Dioxane	0.000		0	N.D.	d	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\F031324D\
Data File : F24S073007.D
Acq On : 13 Mar 2024 12:39 pm
Operator : GJB
Sample : D8 10 Inst : GCMSSV6
Misc :
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 13 13:31:22 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324diox.M
Quant Title :
QLast Update : Wed Mar 13 07:46:51 2024
Response via : Initial Calibration

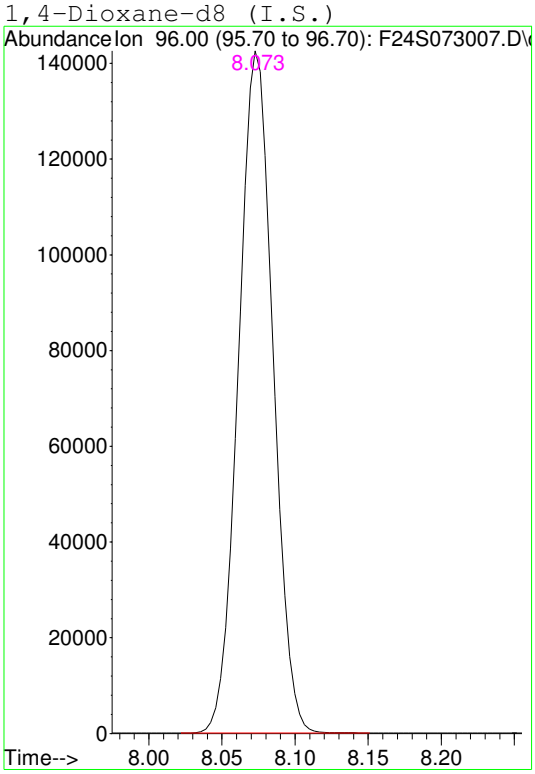




Data Path : C:\msdchem\1\data\F031324D\
Data File : F24S073007.D
Acq On : 13 Mar 2024 12:39 pm
Operator : GJB
Sample : D8 10
Misc :

Quant Time : Wed Mar 13 13:31:22 2024
Quant Method : C:\msdchem\1\methods\DQ031324diox.M
QLast Update : Wed Mar 13 07:46:51 2024

Original Integration
1,4-Dioxane-d8 (I.S.)



Original Int. Results

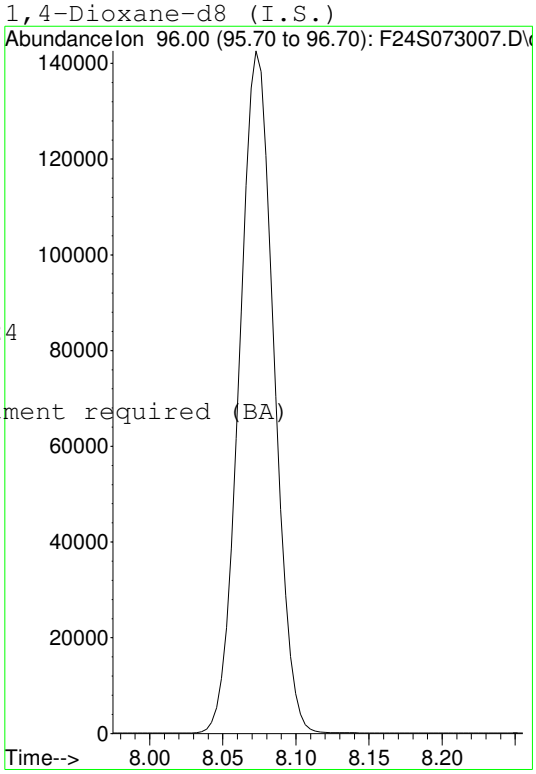
RT : 8.07
Area : 234039
Amount: 10

Manual Int. Results

Wed Mar 13 13:31:21 2024

MIuser: GJB
Reason: Baseline adjustment required (BA)
RT : 0.00
Area : 0
Amount: 10

Manual Integration
1,4-Dioxane-d8 (I.S.)



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\F031324D\
Data File : F24S073008.D
Acq On : 13 Mar 2024 1:01 pm
Operator : GJB
Sample : D8 25 Inst : GCMSSV6
Misc :
ALS Vial : 16 Sample Multiplier: 1

850

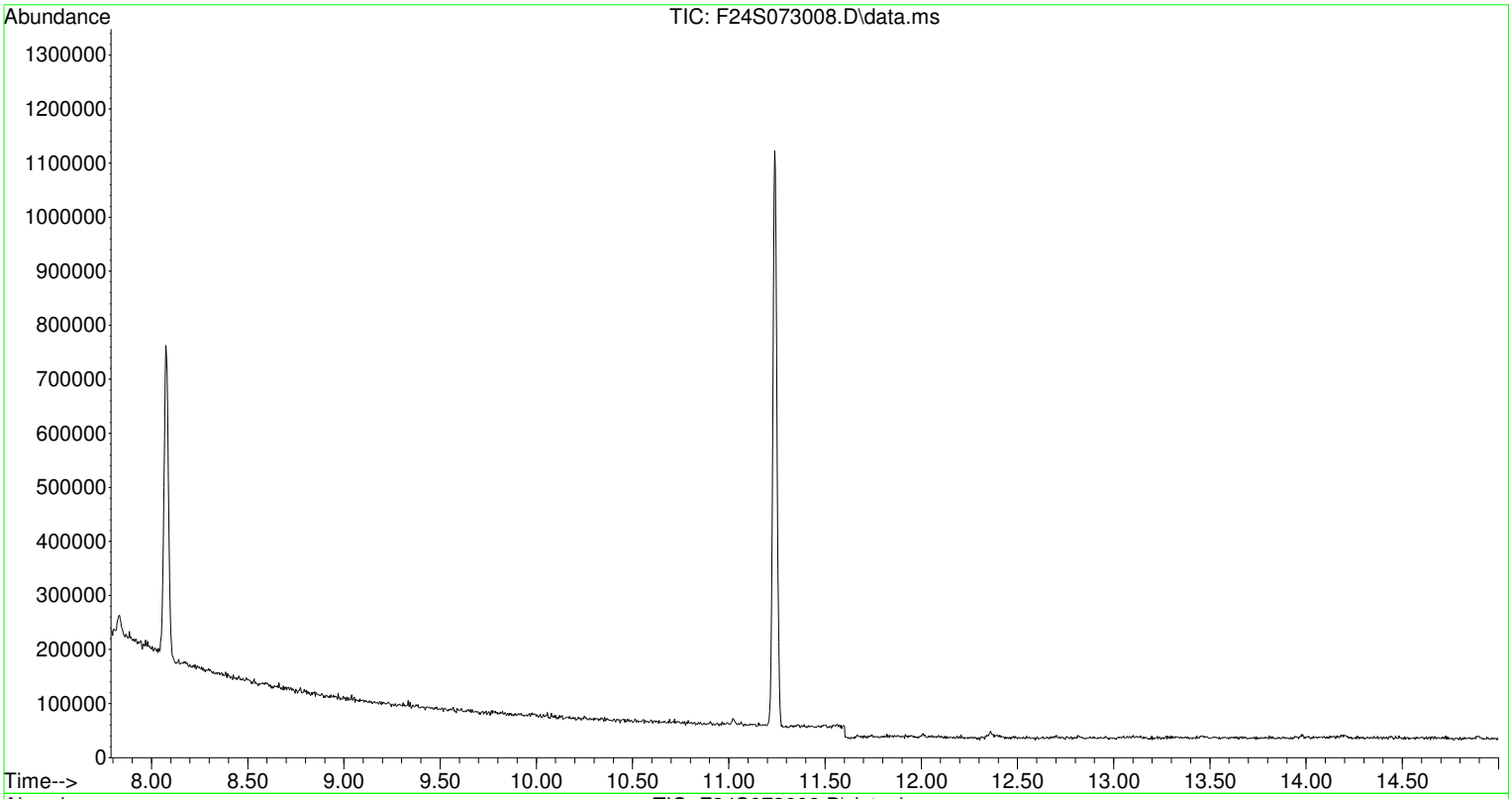
Quant Time: Mar 13 13:34:19 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324diox.M
Quant Title :
QLast Update : Wed Mar 13 07:46:51 2024
Response via : Initial Calibration

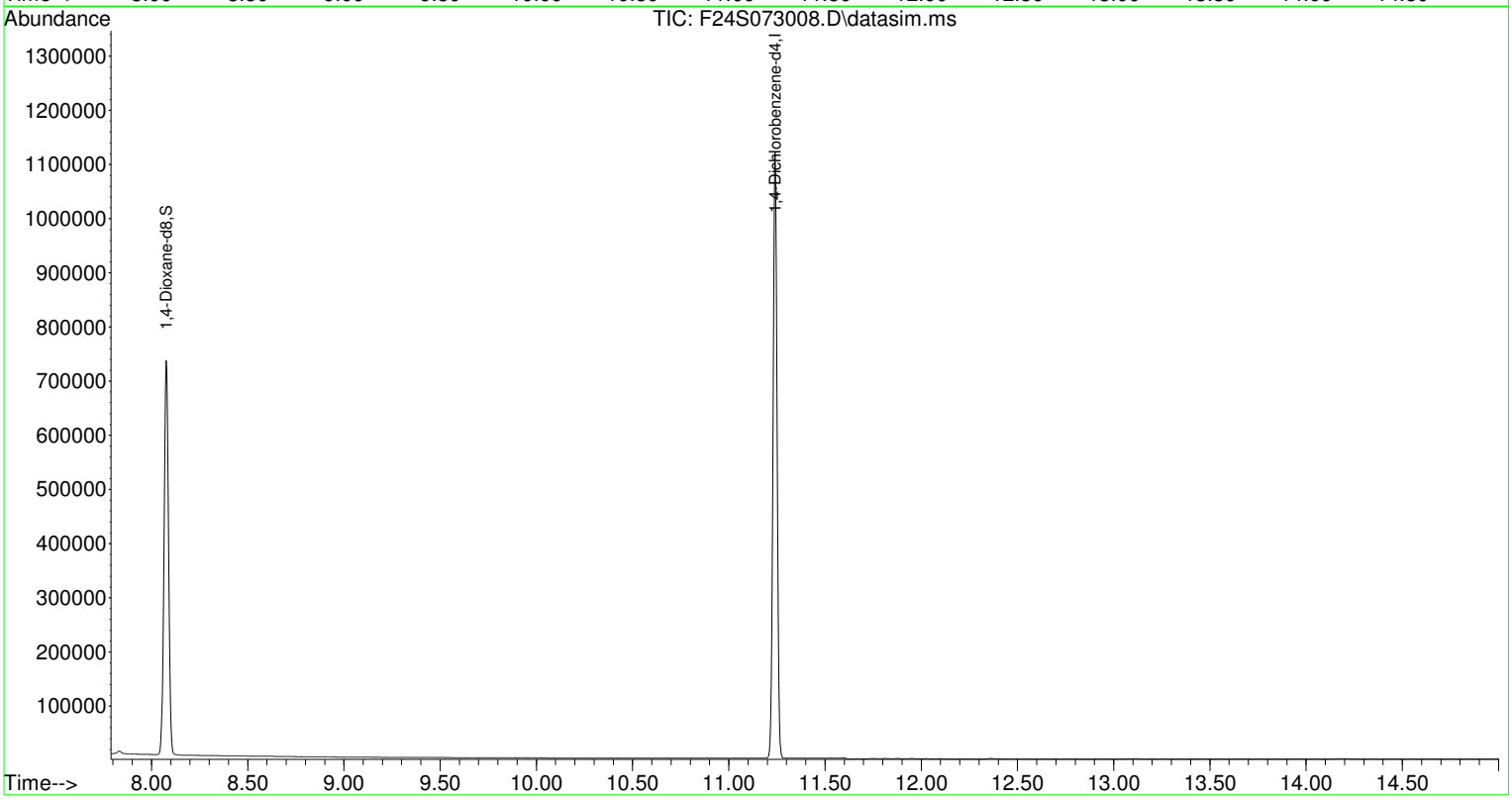
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	11.240	150	823290	10.000	ug/mL	-0.02
3) 1,4-Dioxane-d8 (I.S.)	0.000	96	0m	10.000	ug/mL	-8.08
System Monitoring Compounds						
2) 1,4-Dioxane-d8	8.076	96	600588	23.802	ug/mL	0.02
Target Compounds						Qvalue
4) 1,4-Dioxane	0.000		0	N.D.		

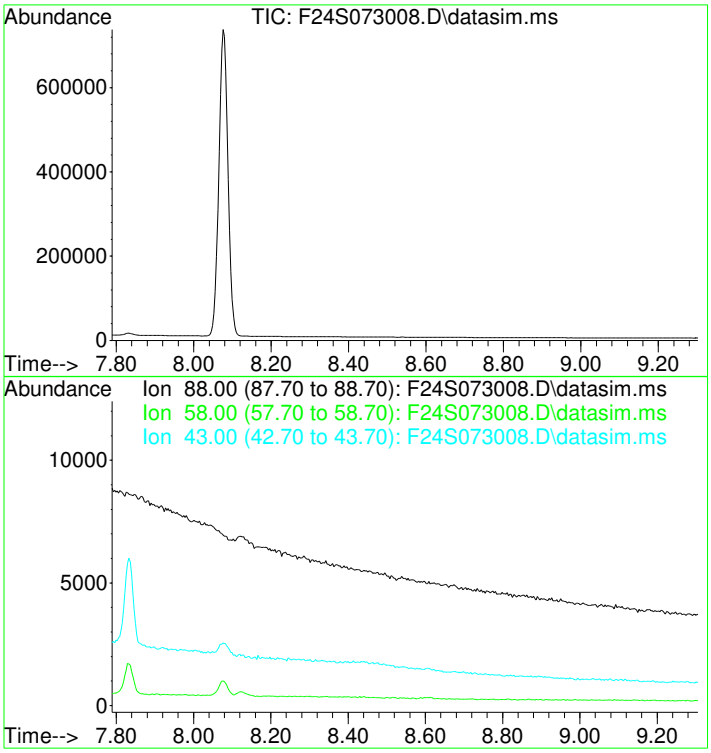
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\F031324D\
Data File : F24S073008.D
Acq On : 13 Mar 2024 1:01 pm
Operator : GJB
Sample : D8 25 Inst : GCMSSV6
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 13 13:34:19 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324diox.M
Quant Title :
QLast Update : Wed Mar 13 07:46:51 2024
Response via : Initial Calibration







#4
1,4-Dioxane
Concen: N.D.
Expected RT: 8.12 min

Lab File: F24S073008.D
Acq: 13 Mar 2024 1:01 pm

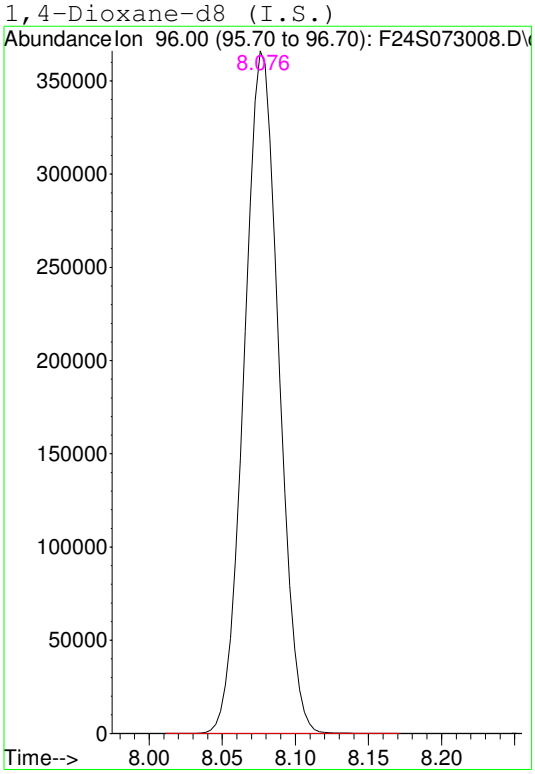
Tgt Ion: 88

Sig	Exp Ratio
88	100
58	70.9
43	34.3

Data Path : C:\msdchem\1\data\F031324D\
Data File : F24S073008.D
Acq On : 13 Mar 2024 1:01 pm
Operator : GJB
Sample : D8 25
Misc :

Quant Time : Wed Mar 13 13:34:19 2024
Quant Method : C:\msdchem\1\methods\DQ031324diox.M
QLast Update : Wed Mar 13 07:46:51 2024

Original Integration
1,4-Dioxane-d8 (I.S.)



Original Int. Results

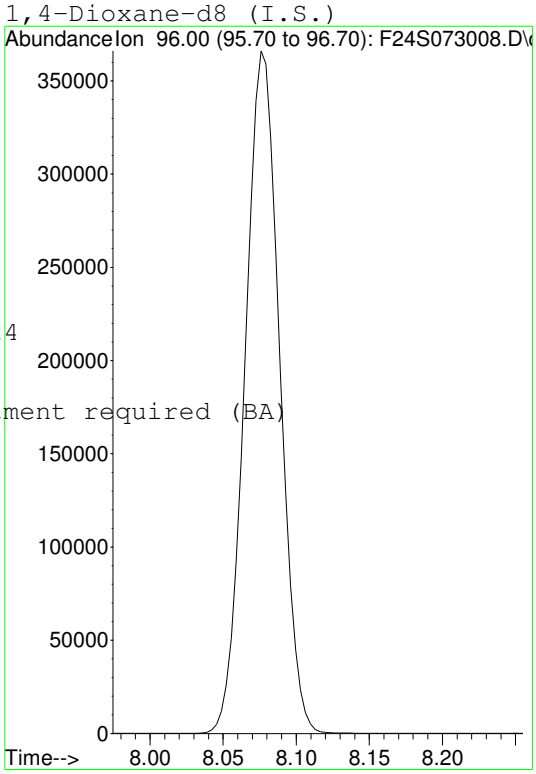
RT : 8.08
Area : 600588
Amount: 10

Manual Int. Results

Wed Mar 13 13:34:19 2024

MIuser: GJB
Reason: Baseline adjustment required (BA)
RT : 0.00
Area : 0
Amount: 10

Manual Integration
1,4-Dioxane-d8 (I.S.)



Quantitation Report (QT Reviewed)

854

Data Path : C:\msdchem\1\data\F031324D\
Data File : F24S073009.D
Acq On : 13 Mar 2024 1:22 pm
Operator : GJB
Sample : D8 50 Inst : GCMSSV6
Misc :
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Mar 13 13:37:45 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324diox.M
Quant Title :
QLast Update : Wed Mar 13 13:36:20 2024
Response via : Initial Calibration

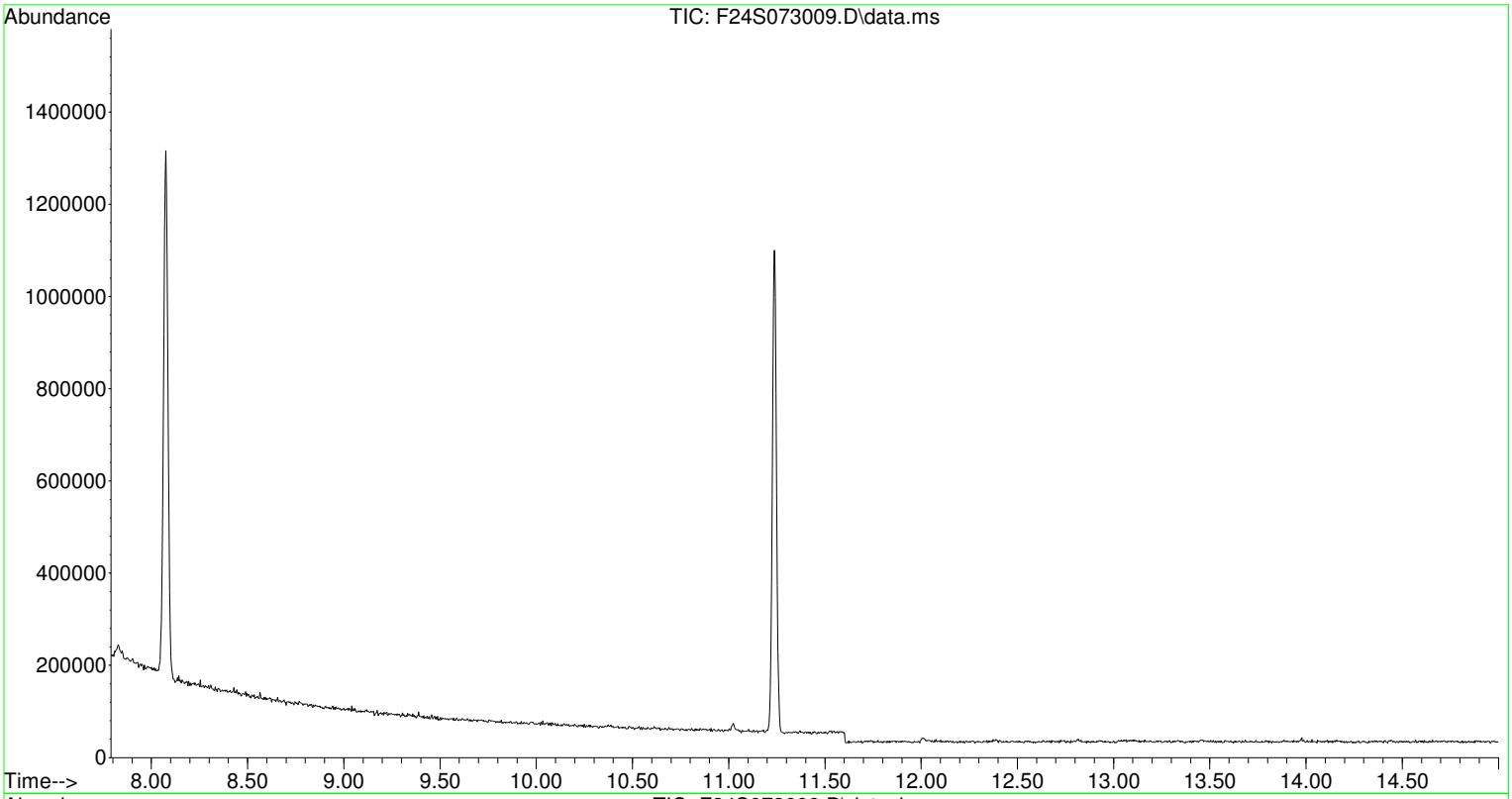
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	11.237	150	809973	10.000	ug/mL	-0.02
3) 1,4-Dioxane-d8 (I.S.)	0.000	96	0m	10.000	ug/mL	-8.08
System Monitoring Compounds						
2) 1,4-Dioxane-d8	8.076	96	1173294	46.988	ug/mL	0.02
Target Compounds						Qvalue
4) 1,4-Dioxane	0.000		0	N.D.	d	

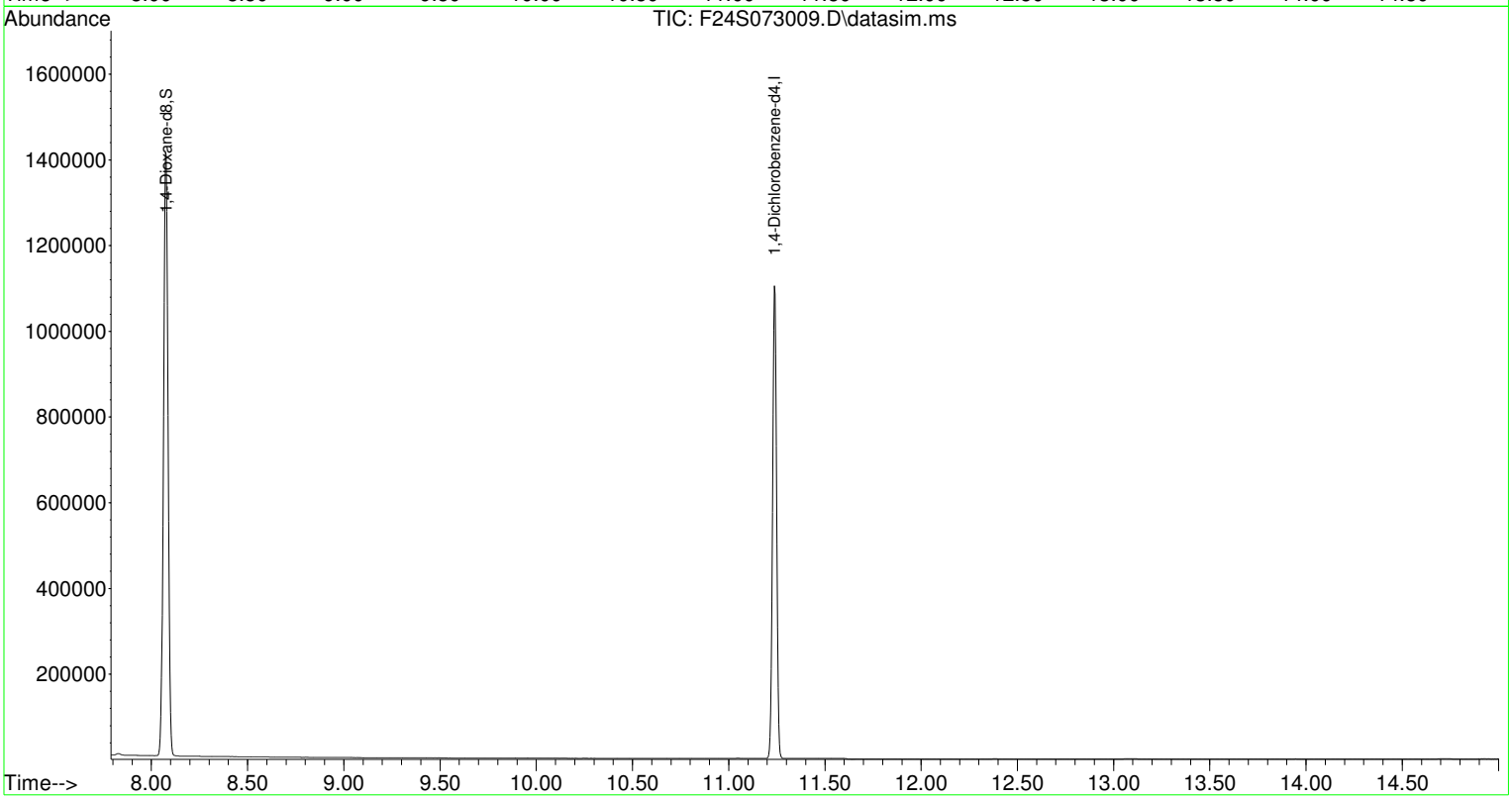
(#) = qualifier out of range (m) = manual integration (+) = signals summed

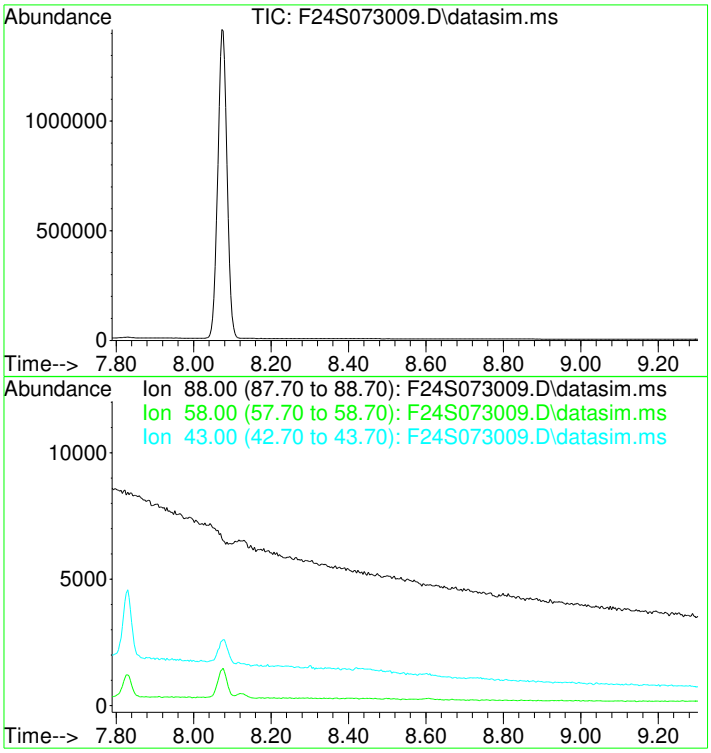
Data Path : C:\msdchem\1\data\F031324D\
Data File : F24S073009.D
Acq On : 13 Mar 2024 1:22 pm
Operator : GJB
Sample : D8 50 Inst : GCMSSV6
Misc :
ALS Vial : 17 Sample Multiplier: 1

855

Quant Time: Mar 13 13:37:45 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324diox.M
Quant Title :
QLast Update : Wed Mar 13 13:36:20 2024
Response via : Initial Calibration







#4
1,4-Dioxane
Concen: N.D.
Expected RT: 8.12 min

Lab File: F24S073009.D
Acq: 13 Mar 2024 1:22 pm

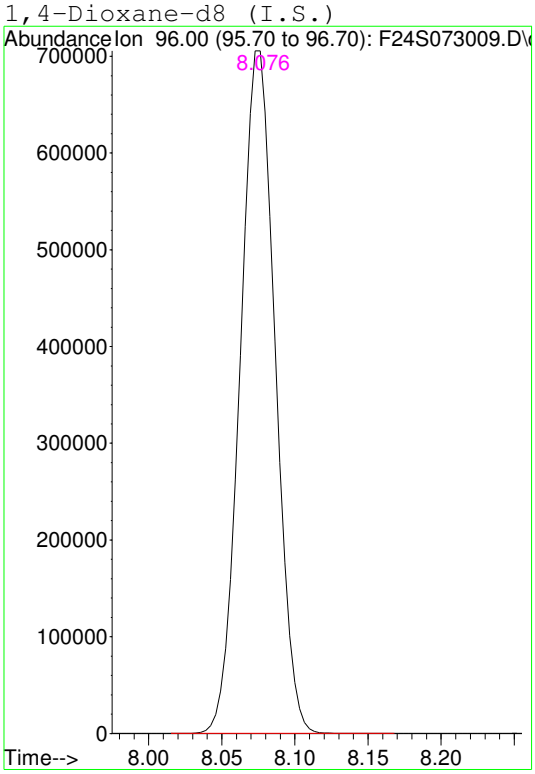
Tgt Ion: 88

Sig	Exp Ratio
88	100
58	70.9
43	34.3

Data Path : C:\msdchem\1\data\F031324D\
Data File : F24S073009.D
Acq On : 13 Mar 2024 1:22 pm
Operator : GJB
Sample : D8 50
Misc :

Quant Time : Wed Mar 13 13:37:45 2024
Quant Method : C:\msdchem\1\methods\DQ031324diox.M
QLast Update : Wed Mar 13 13:36:20 2024

Original Integration
1,4-Dioxane-d8 (I.S.)



Original Int. Results

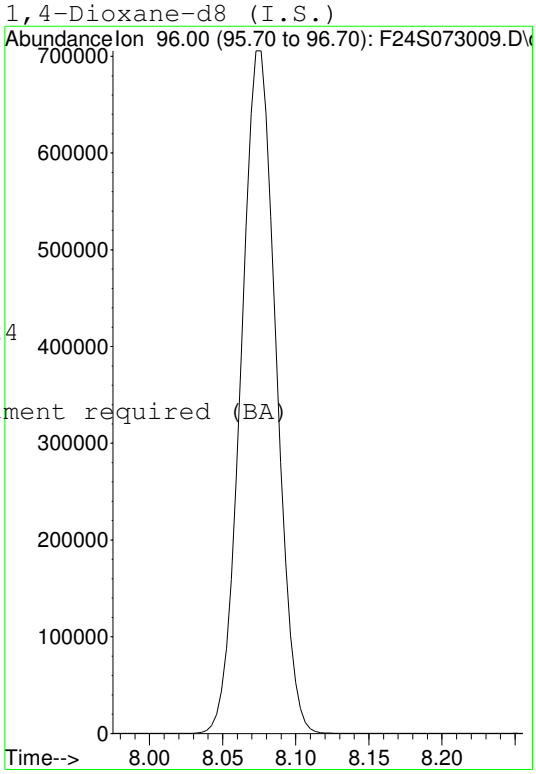
RT : 8.08
Area : 1.17329e+006
Amount: 10

Manual Int. Results

Wed Mar 13 13:37:42 2024

MIuser: GJB
Reason: Baseline adjustment required (BA)
RT : 0.00
Area : 0
Amount: 10

Manual Integration
1,4-Dioxane-d8 (I.S.)



7 - FORM VII

INITIAL CALIBRATION VERIFICATION

SW-846 8270E

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	GCMSSV6	Calibration:	2400298
Lab File ID:	F24S072020.D	Calibration Date:	03/12/24 00:00
Sequence:	S101577	Injection Date:	03/12/24
Lab Sample ID:	S101577-ICV1	Injection Time:	21:23

		CONC. (µg/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
1,4-Dioxane	A	10.0	9.94	1.175243	1.168487		-0.6	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8270E

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	GCMSSV6	Calibration:	2400298
Lab File ID:	F24S134001.D	Calibration Date:	03/12/24 00:00
Sequence:	S104463	Injection Date:	05/13/24
Lab Sample ID:	S104463-CCV1	Injection Time:	15:20

		CONC. (µg/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,4-Dioxane	A	10.0	8.86	1.175243	1.041049		-11.4	20
1,4-Dioxane-d8	A	10.0	10.1	0.3080446	0.3123545		1.4	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Evaluate Continuing Calibration Report

860

Data Path : C:\msdchem\1\data\F051324D\
Data File : F24S134001.D
Acq On : 13 May 2024 3:20 pm
Operator : GJB
Sample : DIOX 10 ug/mL Inst : GCMSSV6
Misc : ST 24C0356 EX 091224
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 14 07:29:25 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324dioxB.M
Quant Title :
QLast Update : Mon May 13 15:57:40 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	0#	-11.16#
2	S	1,4-Dioxane-d8	0.308	0.000	100.0#	0#	-8.07#
3	I	1,4-Dioxane-d8 (I.S.)	1.000	1.000	0.0	122	0.00
4	T	1,4-Dioxane	1.175	1.041	11.4	120	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

861

Data Path : C:\msdchem\1\data\F051324D\
Data File : F24S134002.D
Acq On : 13 May 2024 3:41 pm
Operator : GJB
Sample : DIOX D8 ug/mL Inst : GCMSSV6
Misc : ST 24C0548 EX 091224
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 14 07:29:35 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324dioxB.M
Quant Title :
QLast Update : Wed Mar 13 13:38:20 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	132	0.00
2	S	1,4-Dioxane-d8	0.308	0.312	-1.3	131	0.00
3	I	1,4-Dioxane-d8 (I.S.)	1.000	1.000	0.0	0#	-8.07#
4	T	1,4-Dioxane	1.175	0.000	100.0#	0#	-8.12#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

862

Data Path : C:\msdchem\1\data\F051324D\
Data File : F24S134001.D
Acq On : 13 May 2024 3:20 pm
Operator : GJB
Sample : DIOX 10 ug/mL Inst : GCMSSV6
Misc : ST 24C0356 EX 091224
ALS Vial : 1 Sample Multiplier: 1

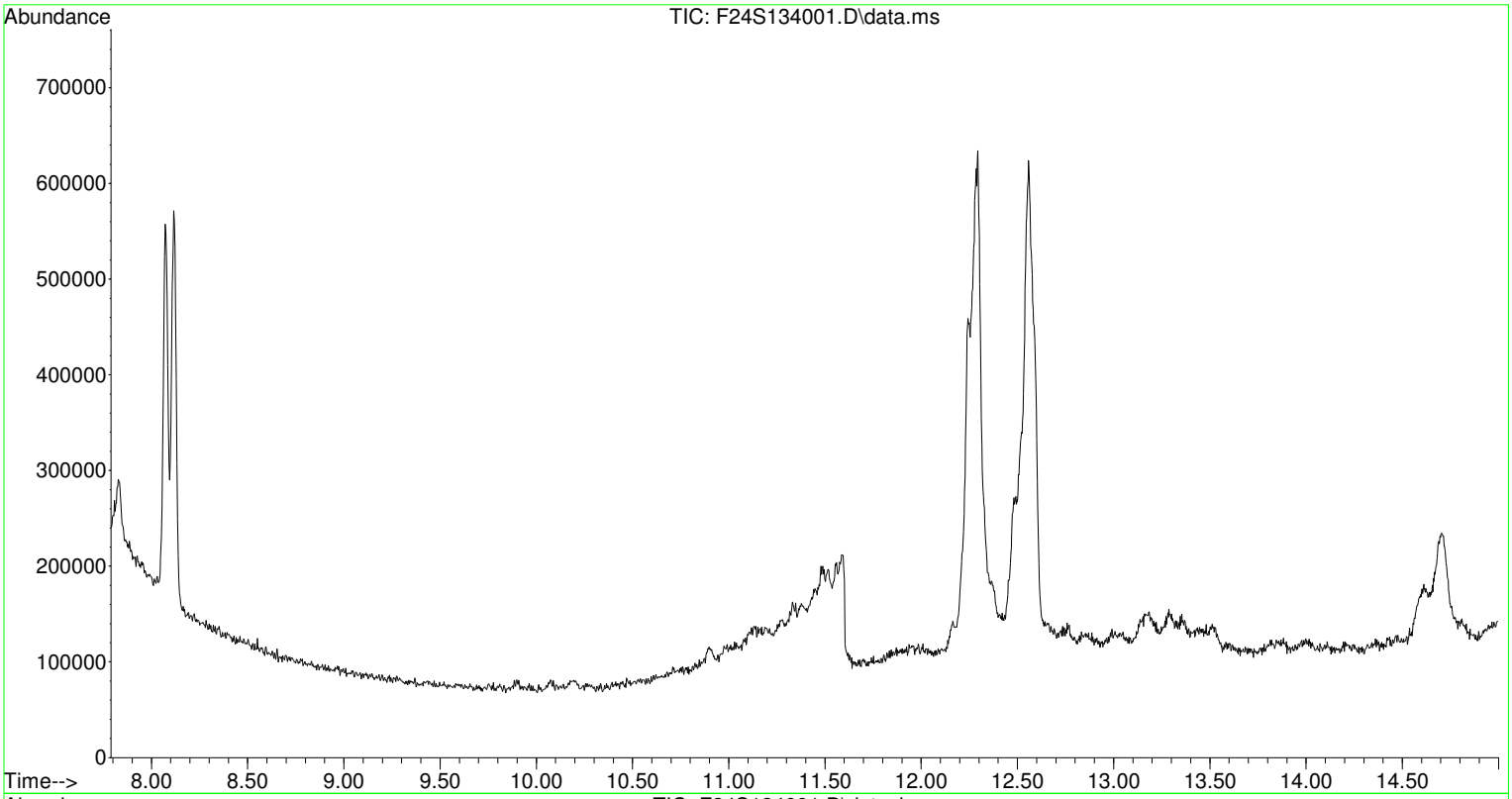
Quant Time: May 14 07:29:25 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324dioxB.M
Quant Title :
QLast Update : Mon May 13 15:57:40 2024
Response via : Initial Calibration

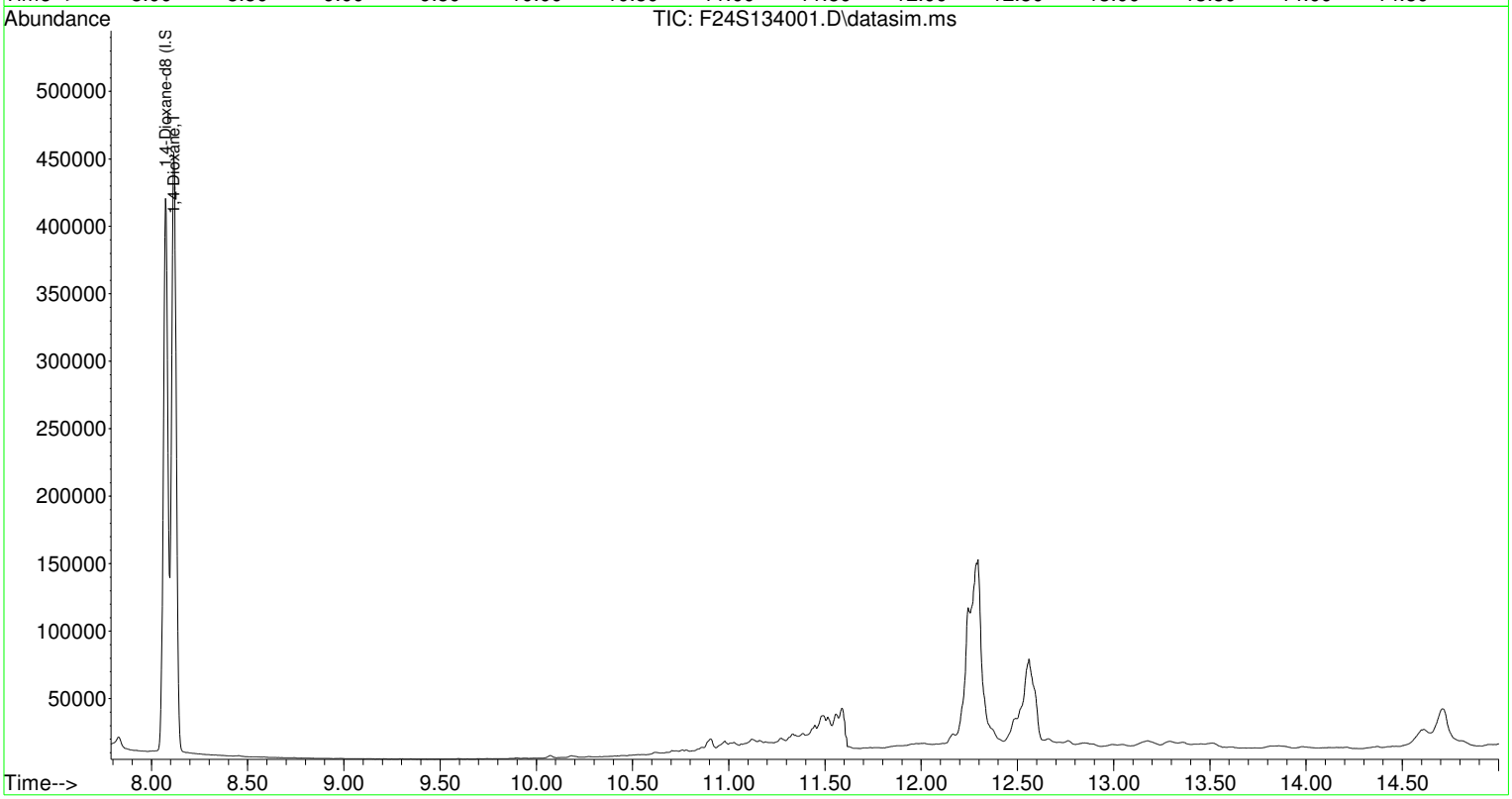
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	0.000	150	0m	10.000	ug/mL	-11.16
3) 1,4-Dioxane-d8 (I.S.)	8.073	96	324389	10.000	ug/mL	0.00
System Monitoring Compounds						
2) 1,4-Dioxane-d8	0.000	96	0d	0.000	ug/mL	
Target Compounds						Qvalue
4] 1,4-Dioxane	8.117	88	337705	8.858	ug/mL	98

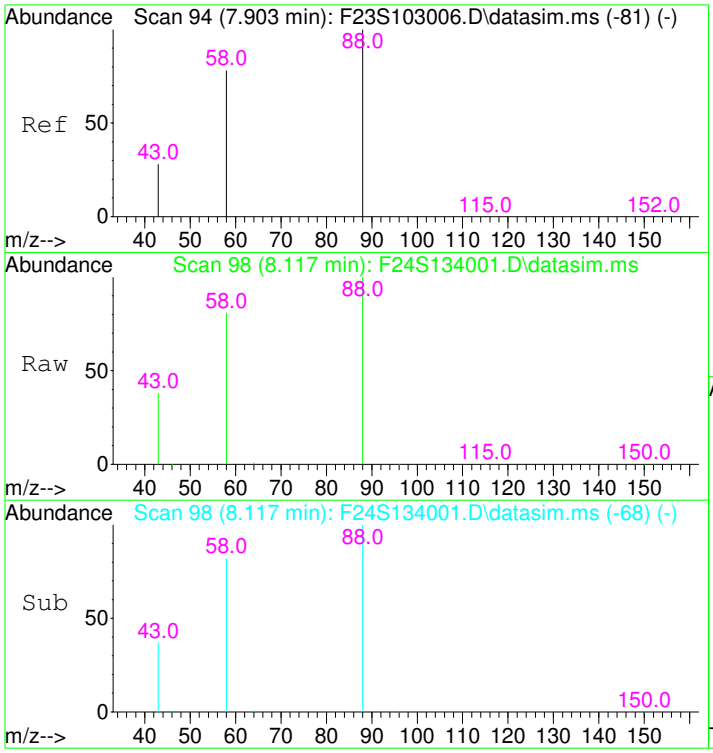
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\F051324D\
Data File : F24S134001.D
Acq On : 13 May 2024 3:20 pm
Operator : GJB
Sample : DIOX 10 ug/mL Inst : GCMSSV6
Misc : ST 24C0356 EX 091224
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 14 07:29:25 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324dioxB.M
Quant Title :
QLast Update : Mon May 13 15:57:40 2024
Response via : Initial Calibration



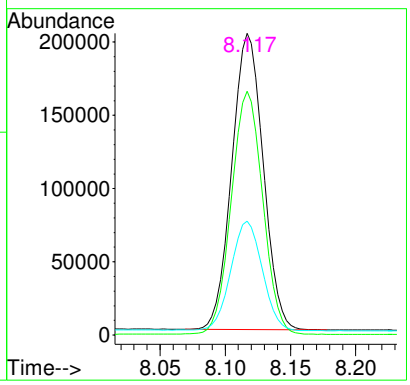




#4
1,4-Dioxane
Concen: 8.86 ug/mL
RT: 8.117 min Scan# 98
Delta R.T. 0.000 min
Lab File: F24S134001.D
Acq: 13 May 2024 3:20 pm

Tgt Ion: 88 Resp: 337705

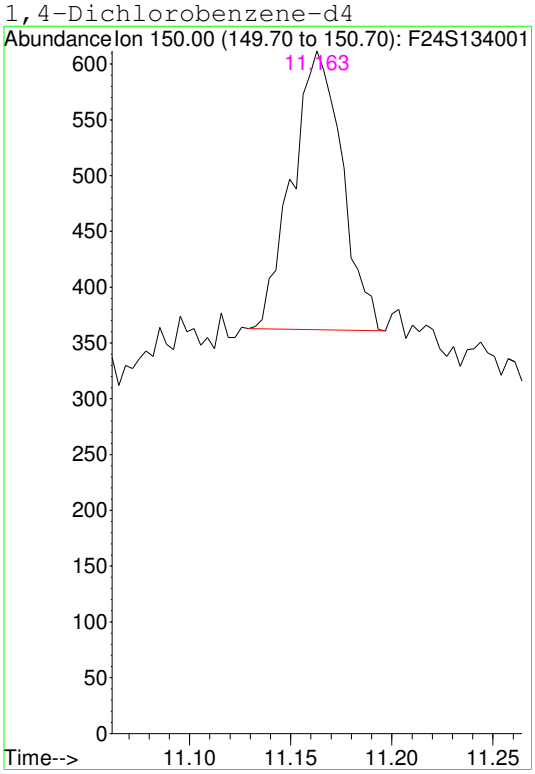
Ion	Ratio	Lower	Upper
88	100		
58	82.1	56.6	105.0
43	36.7	26.4	49.0



Data Path : C:\msdchem\1\data\F051324D\
Data File : F24S134001.D
Acq On : 13 May 2024 3:20 pm
Operator : GJB
Sample : DIOX 10 ug/mL
Misc : ST 24C0356 EX 091224

Quant Time : Tue May 14 07:29:25 2024
Quant Method : C:\msdchem\1\methods\DQ031324dioxB.M
QLast Update : Mon May 13 15:57:40 2024

Original Integration
1,4-Dichlorobenzene-d4



Original Int. Results

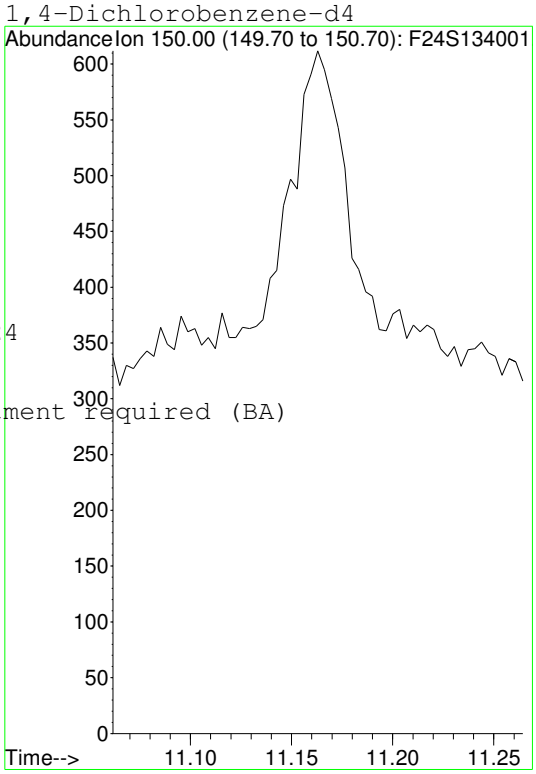
RT : 11.16
Area : 430
Amount: 10

Manual Int. Results

Tue May 14 07:29:24 2024

MIuser: GJB
Reason: Baseline adjustment required (BA)
RT : 0.00
Area : 0
Amount: 10

Manual Integration
1,4-Dichlorobenzene-d4



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\F051324D\
Data File : F24S134002.D
Acq On : 13 May 2024 3:41 pm
Operator : GJB
Sample : DIOX D8 ug/mL Inst : GCMSSV6
Misc : ST 24C0548 EX 091224
ALS Vial : 2 Sample Multiplier: 1

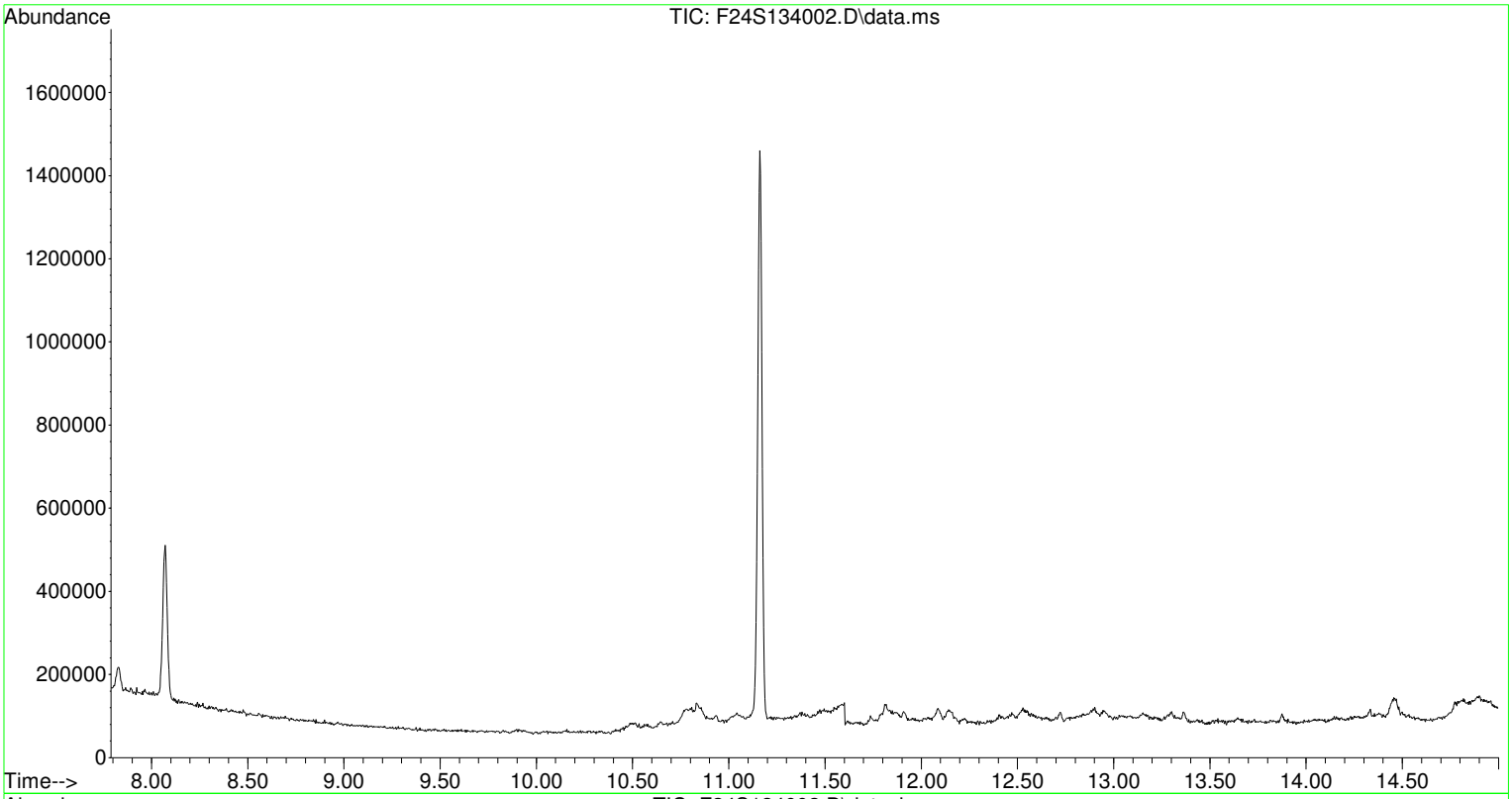
Quant Time: May 14 07:29:35 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324dioxB.M
Quant Title :
QLast Update : Wed Mar 13 13:38:20 2024
Response via : Initial Calibration

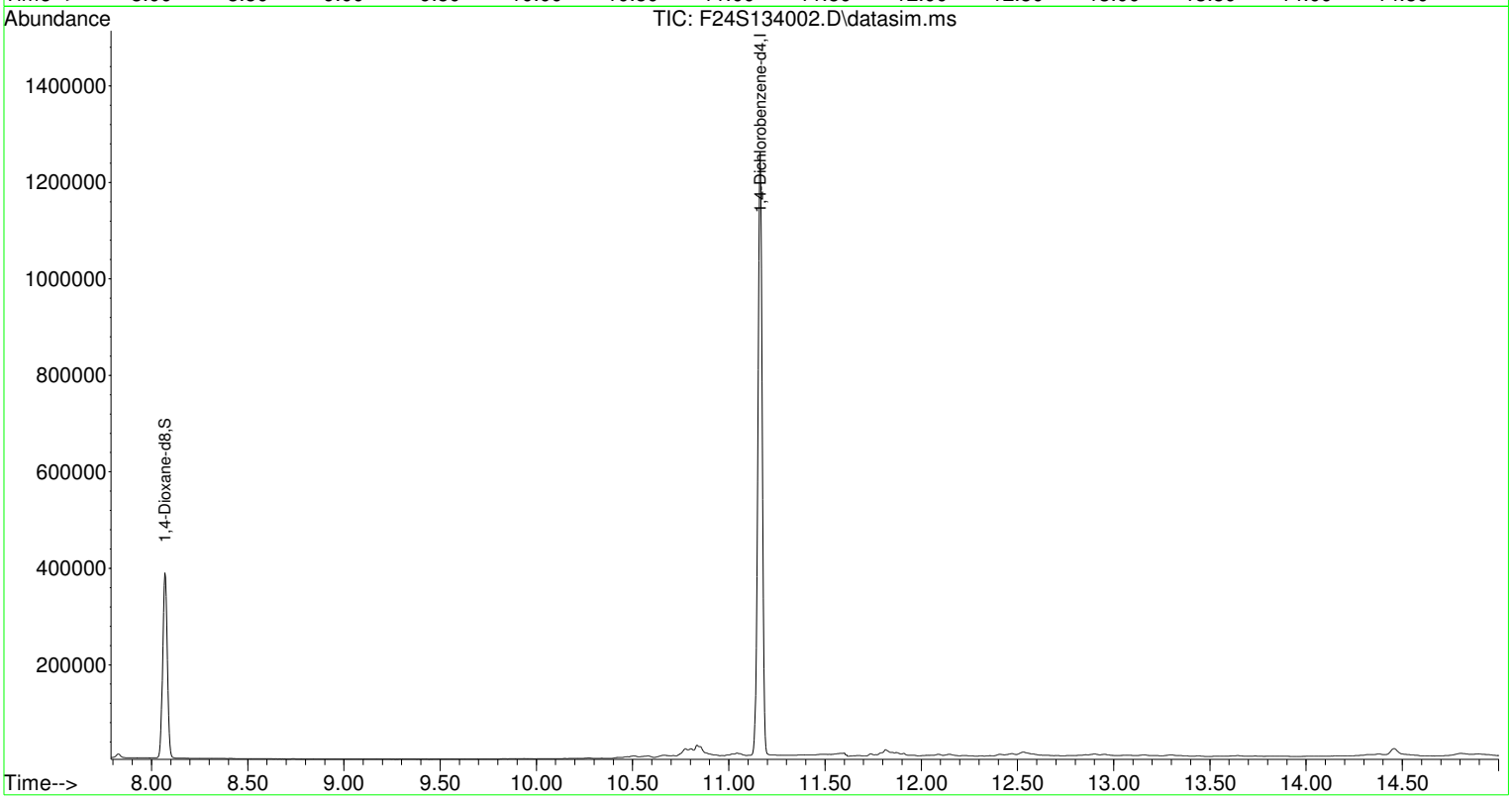
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	11.163	150	984308	10.000	ug/mL	0.00
3) 1,4-Dioxane-d8 (I.S.)	0.000	96	0m	10.000	ug/mL	-8.07
System Monitoring Compounds						
2) 1,4-Dioxane-d8	8.069	96	307453	10.140	ug/mL	0.00
Target Compounds						Qvalue
4) 1,4-Dioxane	0.000		0	N.D.	d	

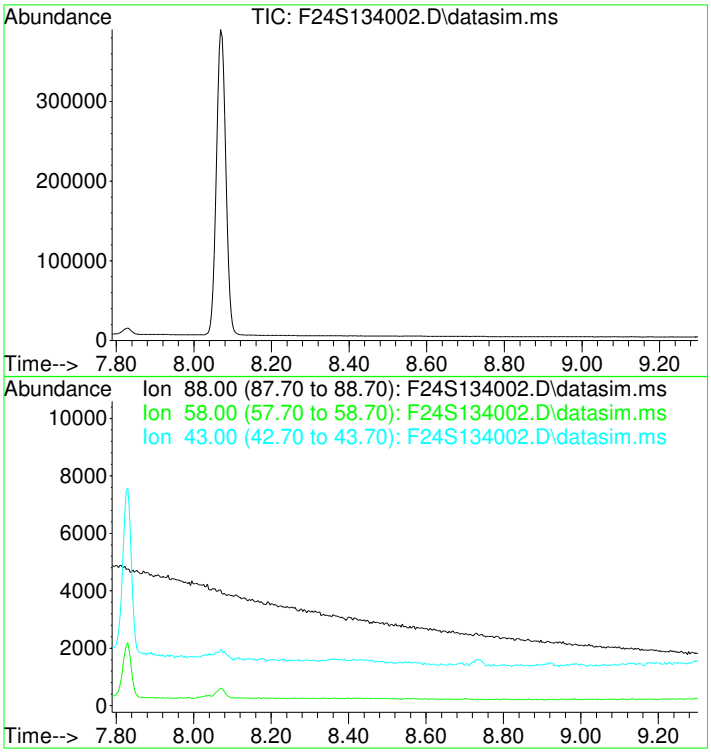
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\F051324D\
Data File : F24S134002.D
Acq On : 13 May 2024 3:41 pm
Operator : GJB
Sample : DIOX D8 ug/mL Inst : GCMSSV6
Misc : ST 24C0548 EX 091224
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 14 07:29:35 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324dioxB.M
Quant Title :
QLast Update : Wed Mar 13 13:38:20 2024
Response via : Initial Calibration







#4
1,4-Dioxane
Concen: N.D.
Expected RT: 8.12 min

Lab File: F24S134002.D
Acq: 13 May 2024 3:41 pm

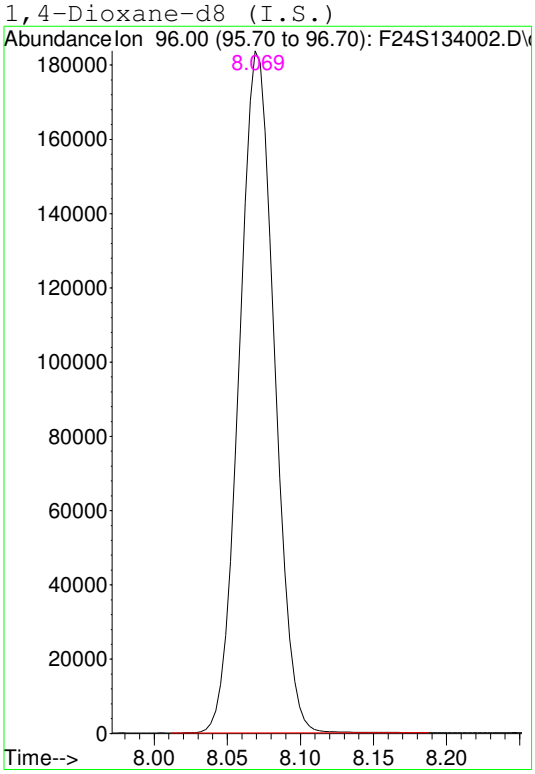
Tgt Ion: 88

Sig	Exp Ratio
88	100
58	80.8
43	37.7

Data Path : C:\msdchem\1\data\F051324D\
Data File : F24S134002.D
Acq On : 13 May 2024 3:41 pm
Operator : GJB
Sample : DIOX D8 ug/mL
Misc : ST 24C0548 EX 091224

Quant Time : Tue May 14 07:29:35 2024
Quant Method : C:\msdchem\1\methods\DQ031324dioxB.M
QLast Update : Wed Mar 13 13:38:20 2024

Original Integration
1,4-Dioxane-d8 (I.S.)



Original Int. Results

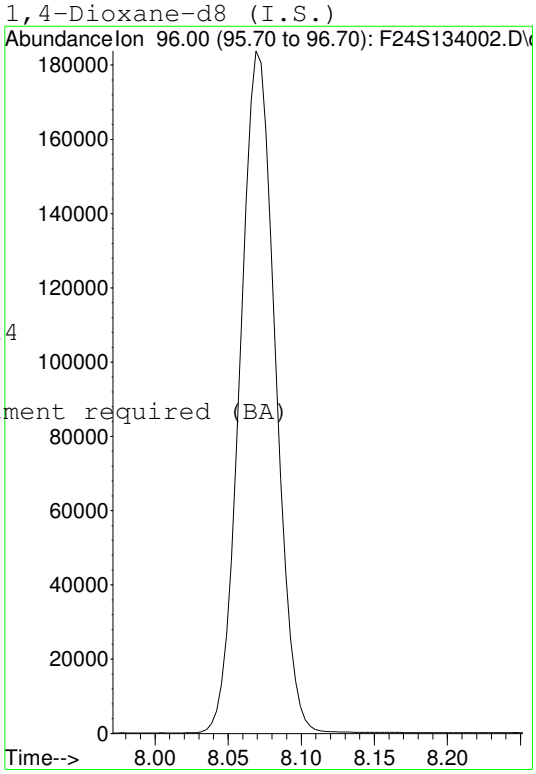
RT : 8.07
Area : 307453
Amount: 10

Manual Int. Results

Tue May 14 07:29:33 2024

MIuser: GJB
Reason: Baseline adjustment required (BA)
RT : 0.00
Area : 0
Amount: 10

Manual Integration
1,4-Dioxane-d8 (I.S.)



7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8270E

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	GCMSSV6	Calibration:	2400298
Lab File ID:	F24S136001.D	Calibration Date:	03/12/24 00:00
Sequence:	S104550	Injection Date:	05/15/24
Lab Sample ID:	S104550-CCV1	Injection Time:	08:33

		CONC. (µg/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,4-Dioxane	A	10.0	10.4	1.175243	1.221753		4.0	20
1,4-Dioxane-d8	A	10.0	11.0	0.3080446	0.3387005		10.0	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Evaluate Continuing Calibration Report

871

Data Path : C:\msdchem\1\data\F051524D\
Data File : F24S136001.D
Acq On : 15 May 2024 8:33 am
Operator : GJB
Sample : DIOX 10 ug/mL Inst : GCMSSV6
Misc : ST 24E0247 EX 091224
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 15 08:51:00 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324dioxB.M
Quant Title :
QLast Update : Wed May 15 08:50:54 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	0#	-11.17#
2	S	1,4-Dioxane-d8	0.308	0.000	100.0#	0#	-8.07#
3	I	1,4-Dioxane-d8 (I.S.)	1.000	1.000	0.0	95	0.00
4	T	1,4-Dioxane	1.175	1.222	-4.0	109	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

872

Data Path : C:\msdchem\1\data\F051524D\
Data File : F24S136002.D
Acq On : 15 May 2024 8:54 am
Operator : GJB
Sample : DIOX D8 ug/mL Inst : GCMSSV6
Misc : ST 24D0548 EX 091224
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 15 09:14:09 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324dioxB.M
Quant Title :
QLast Update : Wed May 15 09:14:03 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	103	0.00
2	S	1,4-Dioxane-d8	0.308	0.339	-10.1	111	0.00
3	I	1,4-Dioxane-d8 (I.S.)	1.000	1.000	0.0	0#	-8.07#
4	T	1,4-Dioxane	1.175	0.000	100.0#	0#	-8.12#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

873

Data Path : C:\msdchem\1\data\F051524D\
Data File : F24S136001.D
Acq On : 15 May 2024 8:33 am
Operator : GJB
Sample : DIOX 10 ug/mL Inst : GCMSSV6
Misc : ST 24E0247 EX 091224
ALS Vial : 1 Sample Multiplier: 1

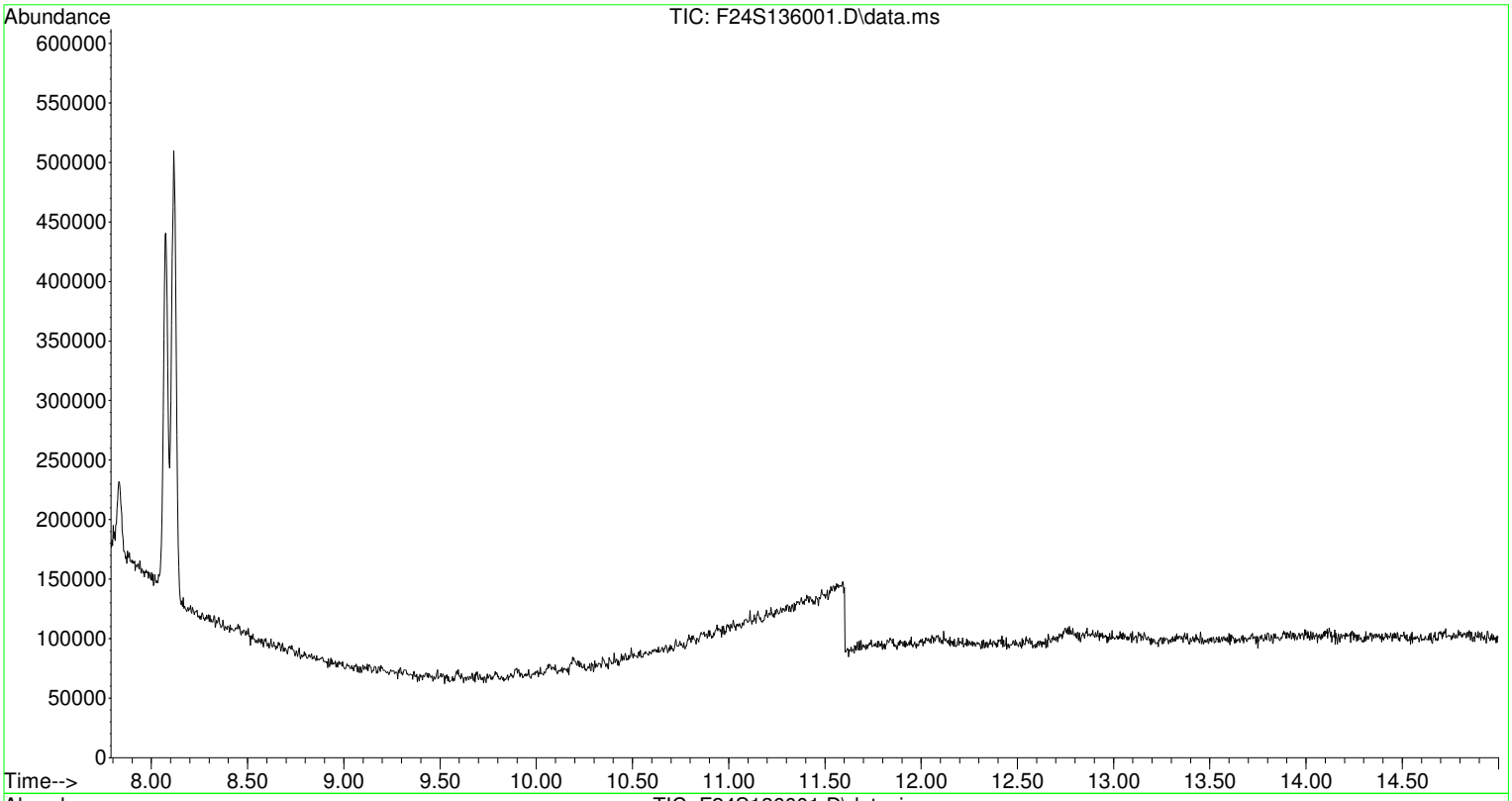
Quant Time: May 15 08:51:00 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324dioxB.M
Quant Title :
QLast Update : Wed May 15 08:50:54 2024
Response via : Initial Calibration

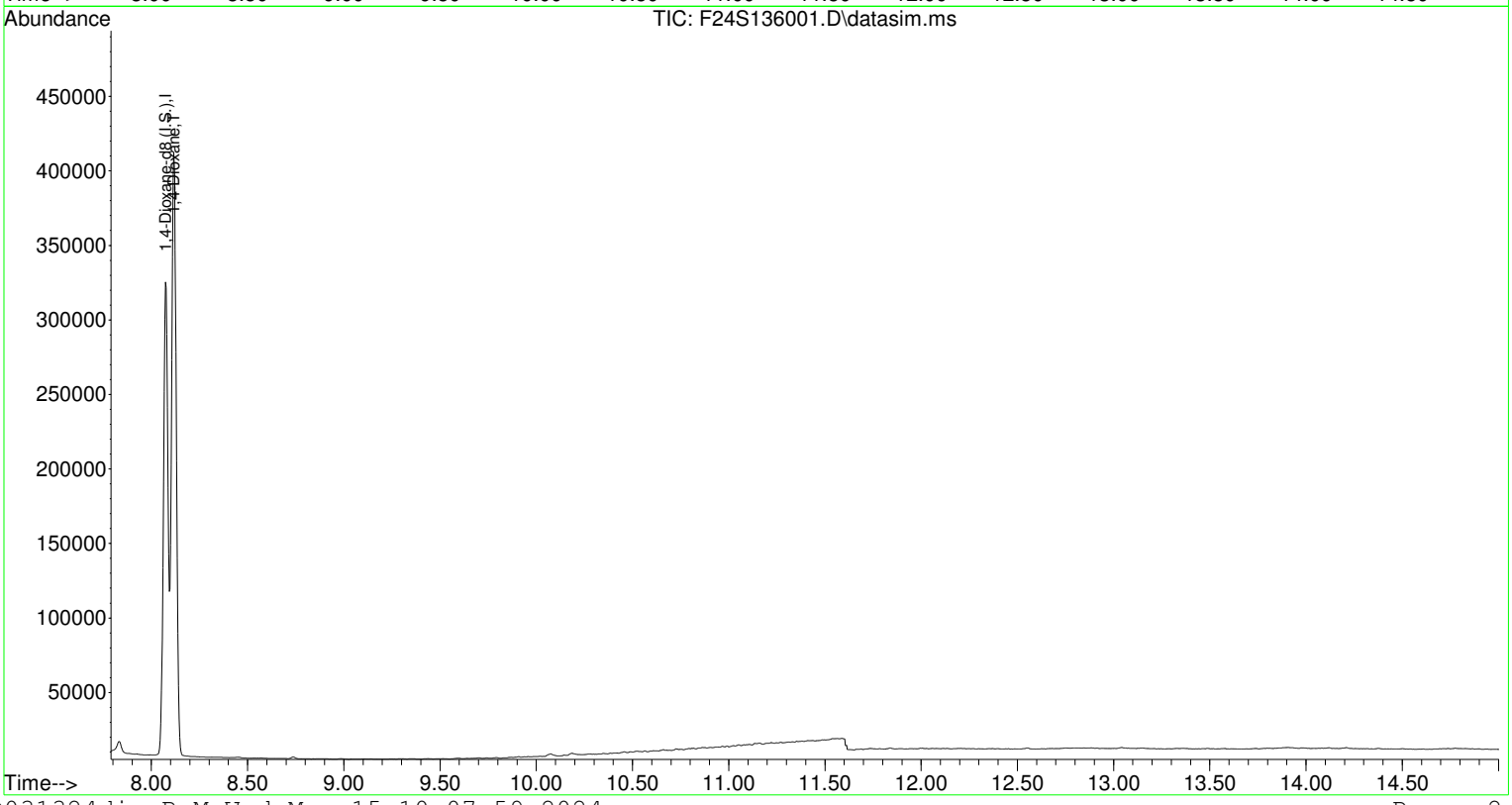
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	0.000	150	0m	10.000	ug/mL	-11.17
3) 1,4-Dioxane-d8 (I.S.)	8.073	96	252195	10.000	ug/mL	0.00
System Monitoring Compounds						
2) 1,4-Dioxane-d8	0.000	96	0d	0.000	ug/mL	
Target Compounds						Qvalue
4] 1,4-Dioxane	8.117	88	308120	10.396	ug/mL	99

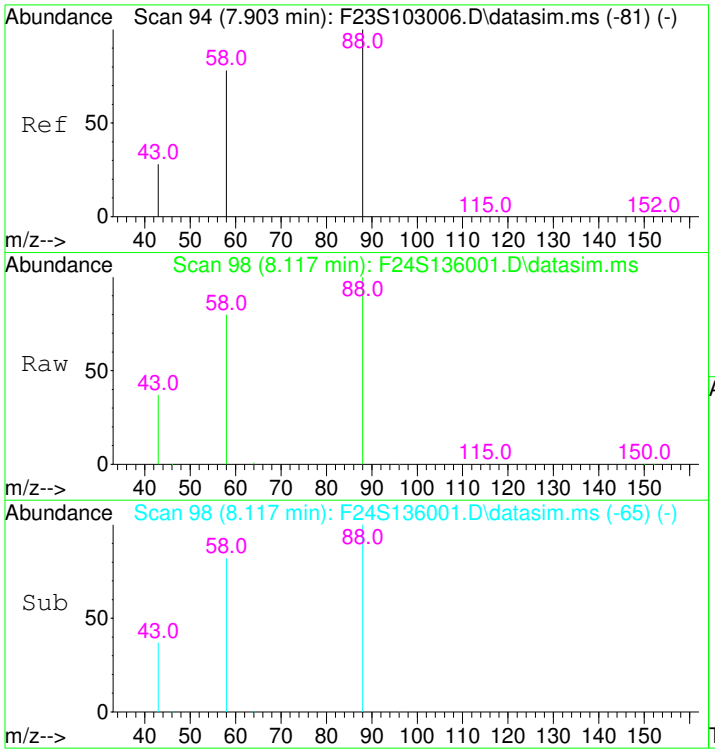
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\F051524D\
Data File : F24S136001.D
Acq On : 15 May 2024 8:33 am
Operator : GJB
Sample : DIOX 10 ug/mL Inst : GCMSSV6
Misc : ST 24E0247 EX 091224
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 15 08:51:00 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324dioxB.M
Quant Title :
QLast Update : Wed May 15 08:50:54 2024
Response via : Initial Calibration



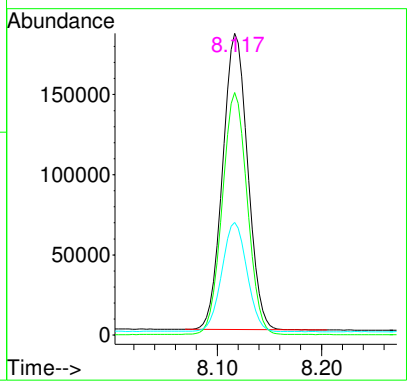




#4
1,4-Dioxane
Concen: 10.40 ug/mL
RT: 8.117 min Scan# 98
Delta R.T. 0.000 min
Lab File: F24S136001.D
Acq: 15 May 2024 8:33 am

Tgt Ion: 88 Resp: 308120

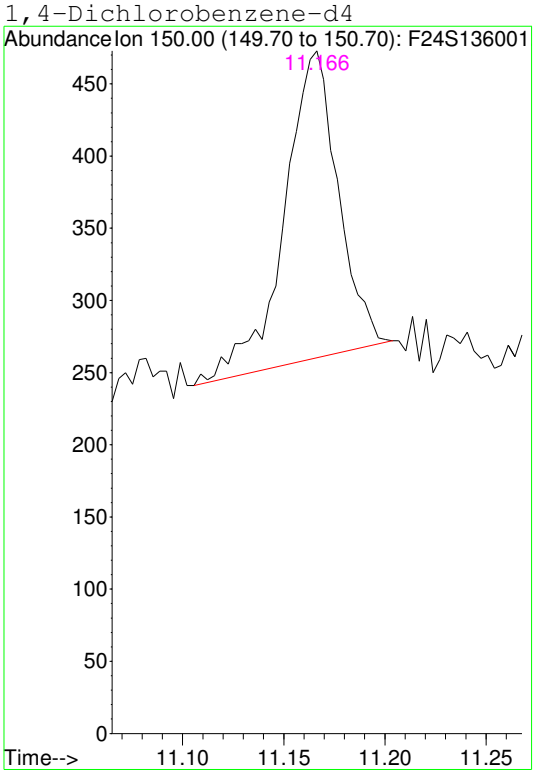
Ion	Ratio	Lower	Upper
88	100		
58	81.7	56.3	104.5
43	36.8	26.1	48.5



Data Path : C:\msdchem\1\data\F051524D\
Data File : F24S136001.D
Acq On : 15 May 2024 8:33 am
Operator : GJB
Sample : DIOX 10 ug/mL
Misc : ST 24E0247 EX 091224

Quant Time : Wed May 15 08:51:00 2024
Quant Method : C:\msdchem\1\methods\DQ031324dioxB.M
QLast Update : Wed May 15 08:50:54 2024

Original Integration
1,4-Dichlorobenzene-d4



Original Int. Results

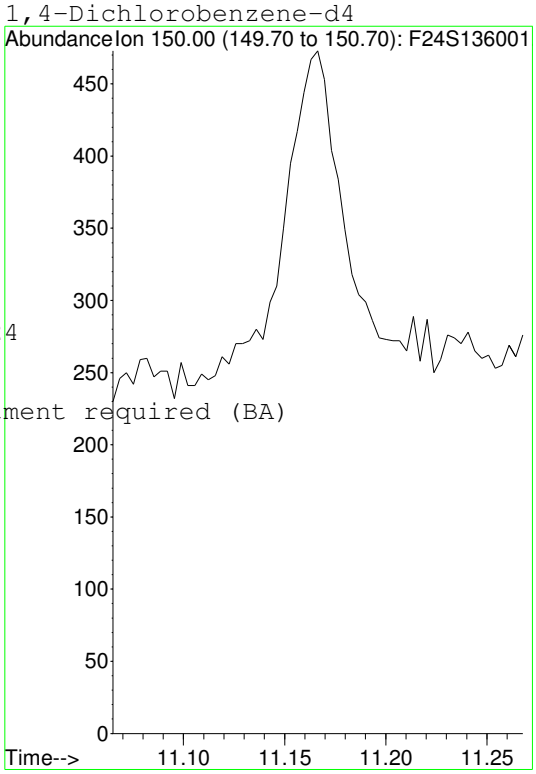
RT : 11.17
Area : 396
Amount: 10

Manual Int. Results

Wed May 15 08:50:58 2024

MIuser: GJB
Reason: Baseline adjustment required (BA)
RT : 0.00
Area : 0
Amount: 10

Manual Integration
1,4-Dichlorobenzene-d4



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\F051524D\
Data File : F24S136002.D
Acq On : 15 May 2024 8:54 am
Operator : GJB
Sample : DIOX D8 ug/mL Inst : GCMSSV6
Misc : ST 24D0548 EX 091224
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 15 09:14:09 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324dioxB.M
Quant Title :
QLast Update : Wed May 15 09:14:03 2024
Response via : Initial Calibration

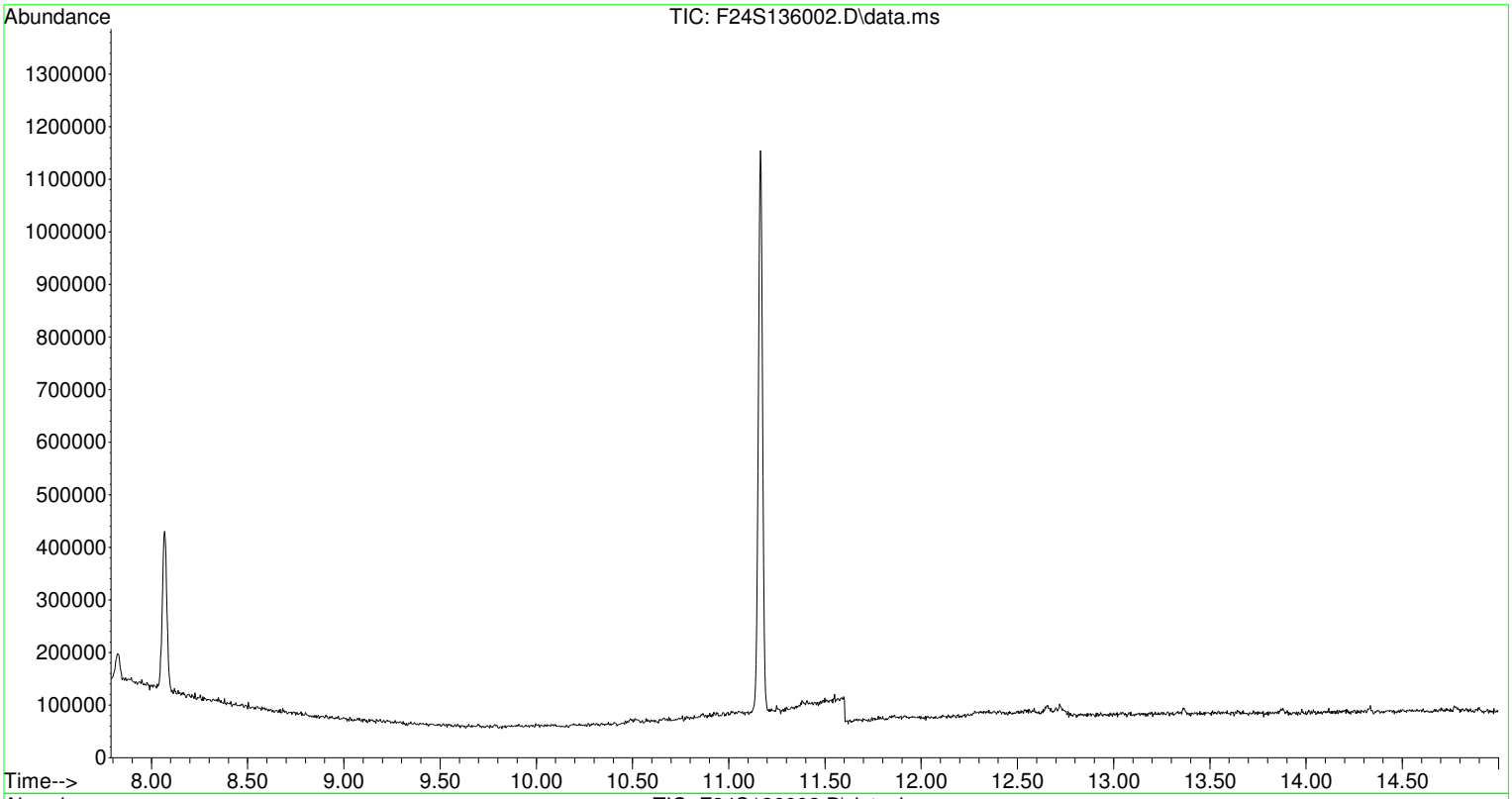
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	11.166	150	767563	10.000	ug/mL	0.00
3) 1,4-Dioxane-d8 (I.S.)	0.000	96	0m	10.000	ug/mL	-8.07
System Monitoring Compounds						
2) 1,4-Dioxane-d8	8.069	96	259974	10.995	ug/mL	0.00
Target Compounds						Qvalue
4) 1,4-Dioxane	0.000		0	N.D.		

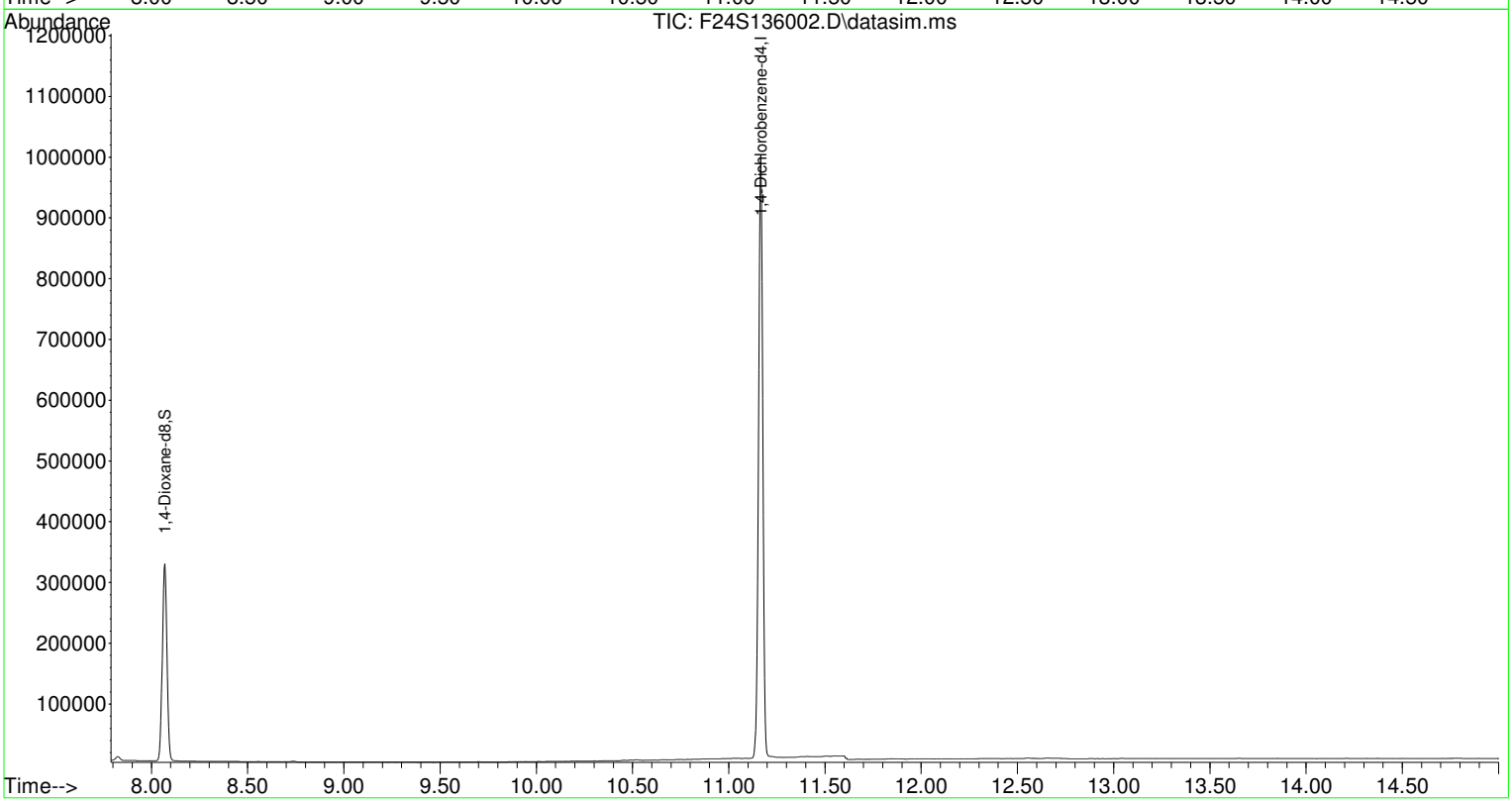
(#) = qualifier out of range (m) = manual integration (+) = signals summed

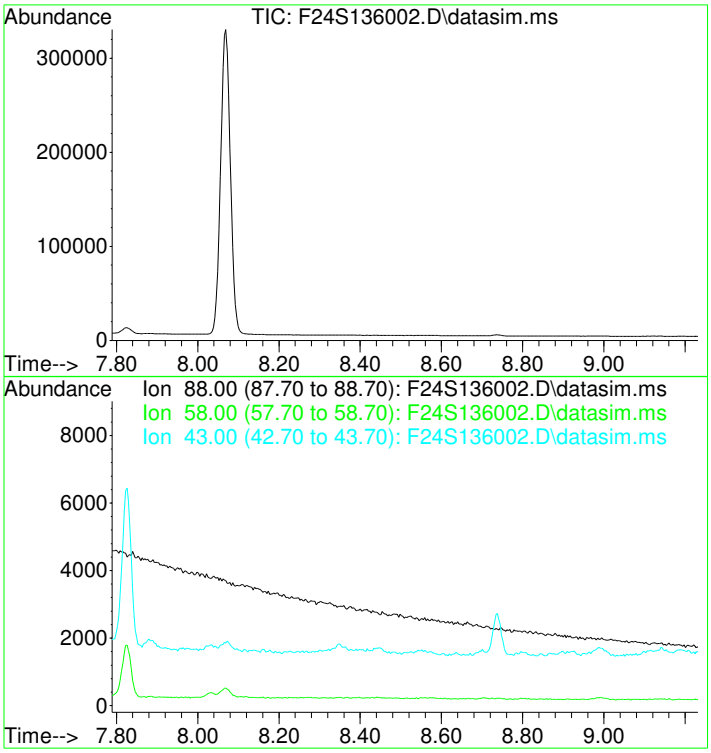
Data Path : C:\msdchem\1\data\F051524D\
Data File : F24S136002.D
Acq On : 15 May 2024 8:54 am
Operator : GJB
Sample : DIOX D8 ug/mL Inst : GCMSSV6
Misc : ST 24D0548 EX 091224
ALS Vial : 2 Sample Multiplier: 1

878

Quant Time: May 15 09:14:09 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324dioxB.M
Quant Title :
QLast Update : Wed May 15 09:14:03 2024
Response via : Initial Calibration







#4
1,4-Dioxane
Concen: N.D.
Expected RT: 8.12 min

Lab File: F24S136002.D
Acq: 15 May 2024 8:54 am

Tgt Ion: 88

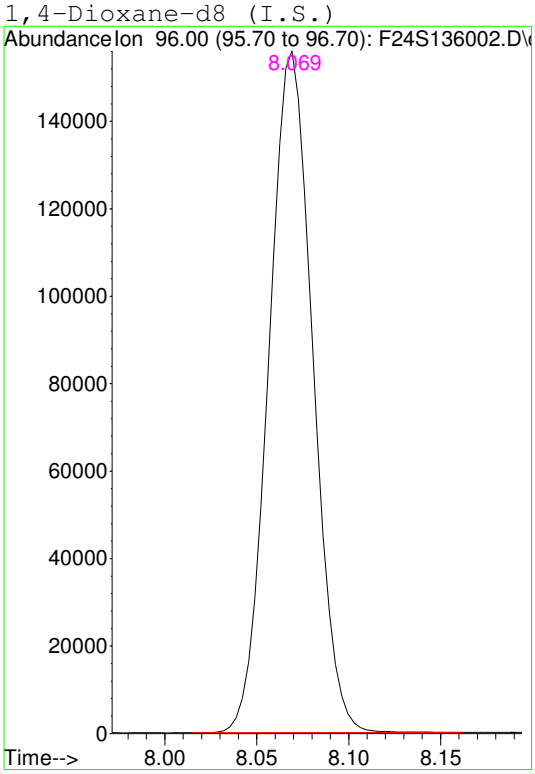
Sig	Exp Ratio
88	100
58	80.4
43	37.3

879

Data Path : C:\msdchem\1\data\F051524D\
Data File : F24S136002.D
Acq On : 15 May 2024 8:54 am
Operator : GJB
Sample : DIOX D8 ug/mL
Misc : ST 24D0548 EX 091224

Quant Time : Wed May 15 09:14:09 2024
Quant Method : C:\msdchem\1\methods\DQ031324dioxB.M
QLast Update : Wed May 15 09:14:03 2024

Original Integration
1,4-Dioxane-d8 (I.S.)



Original Int. Results

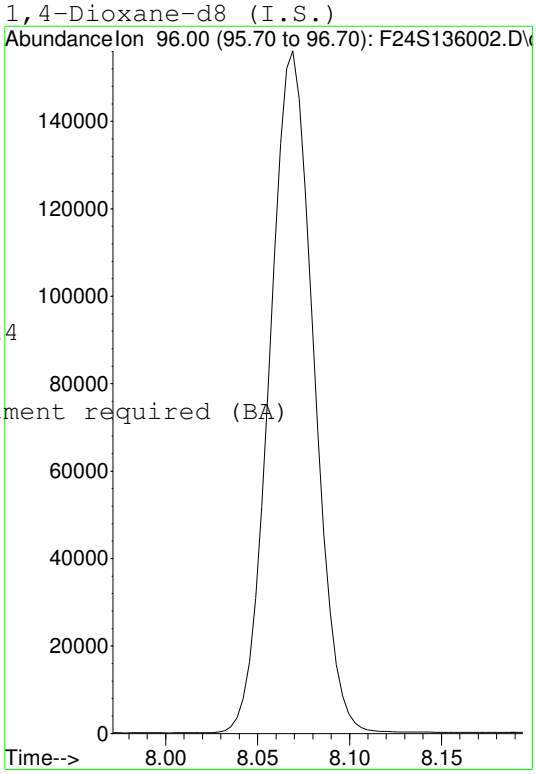
RT : 8.07
Area : 259974
Amount: 10

Manual Int. Results

Wed May 15 09:14:08 2024

MIuser: GJB
Reason: Baseline adjustment required (BA)
RT : 0.00
Area : 0
Amount: 10

Manual Integration
1,4-Dioxane-d8 (I.S.)



8 - FORM VIII
INTERNAL STANDARD AREA AND RT SUMMARY

SW-846 8270E

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Sequence:	S104463	Instrument:	GCMSSV6
		Calibration:	2400298

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S104463-CCV1)			*Lab File ID: F24S134002.D*			*Analyzed: 05/13/24 15:20*			
1,4-Dichlorobenzene-d4	984308	11.163				50 - 200		+/-0.50	
LCS (B374074-BS1)			*Lab File ID: F24S134003.D*			*Analyzed: 05/13/24 16:01*			
1,4-Dichlorobenzene-d4	949257	11.139	984308	11.163	96	50 - 200	-0.0240	+/-0.50	
LCS Dup (B374074-BSD1)			*Lab File ID: F24S134004.D*			*Analyzed: 05/13/24 16:22*			
1,4-Dichlorobenzene-d4	989753	11.139	984308	11.163	101	50 - 200	-0.0240	+/-0.50	
Blank (B374074-BLK1)			*Lab File ID: F24S134005.D*			*Analyzed: 05/13/24 16:42*			
1,4-Dichlorobenzene-d4	1018052	11.146	984308	11.163	103	50 - 200	-0.0170	+/-0.50	
SB1A (24E1437-06)			*Lab File ID: F24S134008.D*			*Analyzed: 05/13/24 17:42*			
1,4-Dichlorobenzene-d4	852914	11.139	984308	11.163	87	50 - 200	-0.0240	+/-0.50	
Matrix Spike (B374074-MS1)			*Lab File ID: F24S134009.D*			*Analyzed: 05/13/24 18:02*			
1,4-Dichlorobenzene-d4	955223	11.146	984308	11.163	97	50 - 200	-0.0170	+/-0.50	
Matrix Spike Dup (B374074-MSD1)			*Lab File ID: F24S134010.D*			*Analyzed: 05/13/24 18:22*			
1,4-Dichlorobenzene-d4	962025	11.143	984308	11.163	98	50 - 200	-0.0200	+/-0.50	
SB4A (24E1437-12)			*Lab File ID: F24S134011.D*			*Analyzed: 05/13/24 18:43*			
1,4-Dichlorobenzene-d4	994897	11.142	984308	11.163	101	50 - 200	-0.0210	+/-0.50	
SB7 (24E1437-17)			*Lab File ID: F24S134012.D*			*Analyzed: 05/13/24 19:02*			
1,4-Dichlorobenzene-d4	969664	11.146	984308	11.163	99	50 - 200	-0.0170	+/-0.50	
CG-2 (24E1437-02)			*Lab File ID: F24S134013.D*			*Analyzed: 05/13/24 19:23*			
1,4-Dichlorobenzene-d4	912378	11.146	984308	11.163	93	50 - 200	-0.0170	+/-0.50	
B1A (24E1437-04)			*Lab File ID: F24S134014.D*			*Analyzed: 05/13/24 19:43*			
1,4-Dichlorobenzene-d4	887762	11.153	984308	11.163	90	50 - 200	-0.0100	+/-0.50	

8 - FORM VIII
INTERNAL STANDARD AREA AND RT SUMMARY

SW-846 8270E

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Sequence:	S104550	Instrument:	GCMSSV6
		Calibration:	2400298

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S104550-CCV1)			*Lab File ID: F24S136002.D*			*Analyzed: 05/15/24 08:33*			
1,4-Dichlorobenzene-d4	767563	11.166				50 - 200		+/-0.50	
DUP (24E1437-19)			*Lab File ID: F24S136005.D*			*Analyzed: 05/15/24 09:58*			
1,4-Dichlorobenzene-d4	846376	11.149	767563	11.166	110	50 - 200	-0.0170	+/-0.50	

QC DATA

1 - FORM I
ANALYSIS DATA SHEET

Blank

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374074-BLK1	File ID:	F24S134005.D
Sampled:		Prepared:	05/10/24 18:53	Analyzed:	05/13/24 16:42
Solids:		Preparation:	SW-846 3546	Dilution:	
Initial/Final:	20.63 g / 1 mL				
Batch:	B374074	Sequence:	S104463	Calibration:	2400298
Instrument:	GCMSSV6				
Column:	1				

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
123-91-1	1,4-Dioxane		0.038	0.048	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\F051324D\
Data File : F24S134005.D
Acq On : 13 May 2024 4:42 pm
Operator : GJB
Sample : B374074-BLK1 Inst : GCMSSV6
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 14 07:27:47 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324dioxB.M
Quant Title :
QLast Update : Wed Mar 13 13:38:20 2024
Response via : Initial Calibration

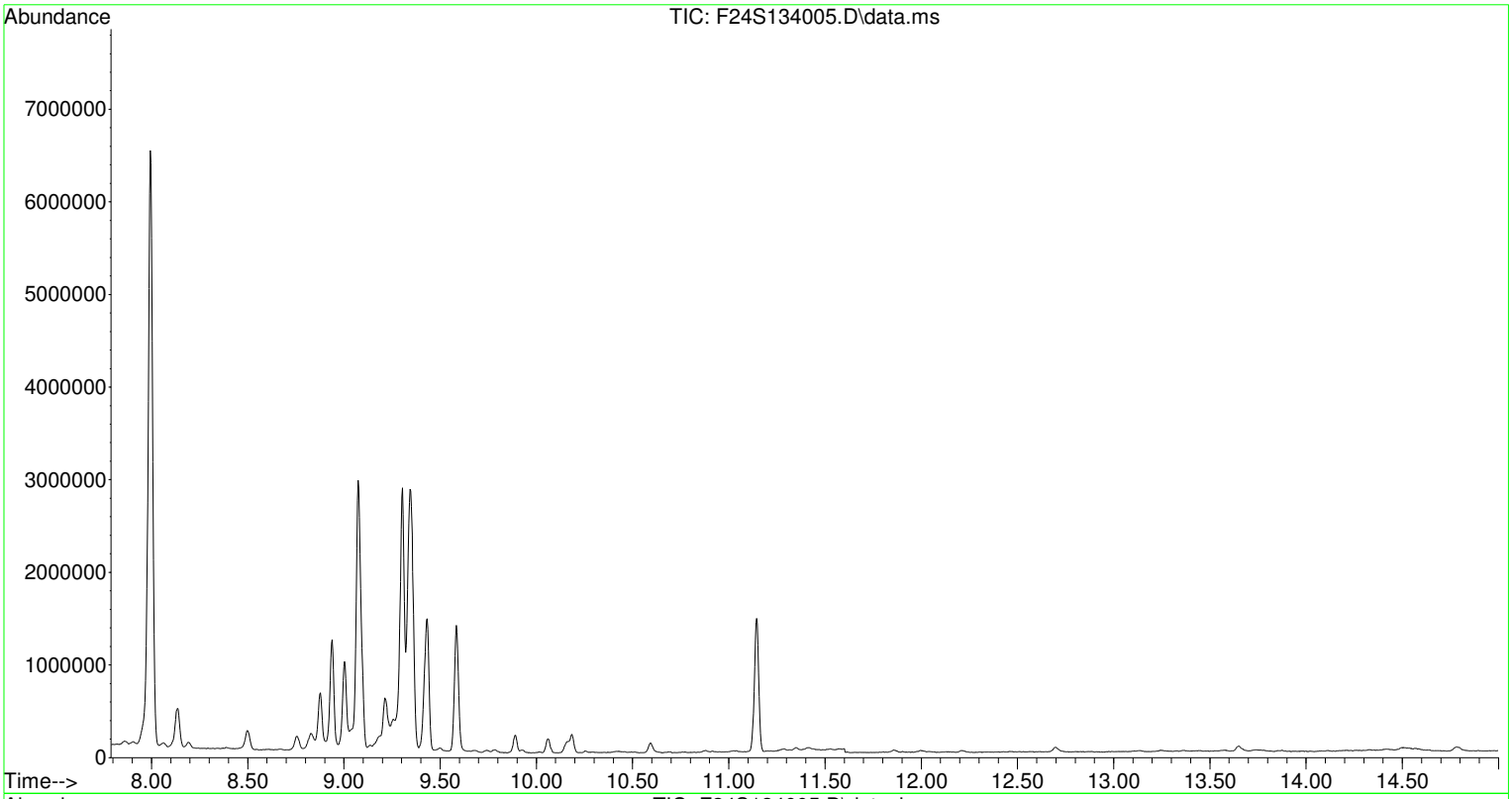
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	11.146	150	1018052	10.000	ug/mL	-0.02
3) 1,4-Dioxane-d8 (I.S.)	8.133	96	384265	10.000	ug/mL	0.06
System Monitoring Compounds						
2) 1,4-Dioxane-d8	8.133	96	384265	12.253	ug/mL	0.06
Target Compounds						Qvalue
4] 1,4-Dioxane	8.177	88	562	0.012	ug/mL#	1

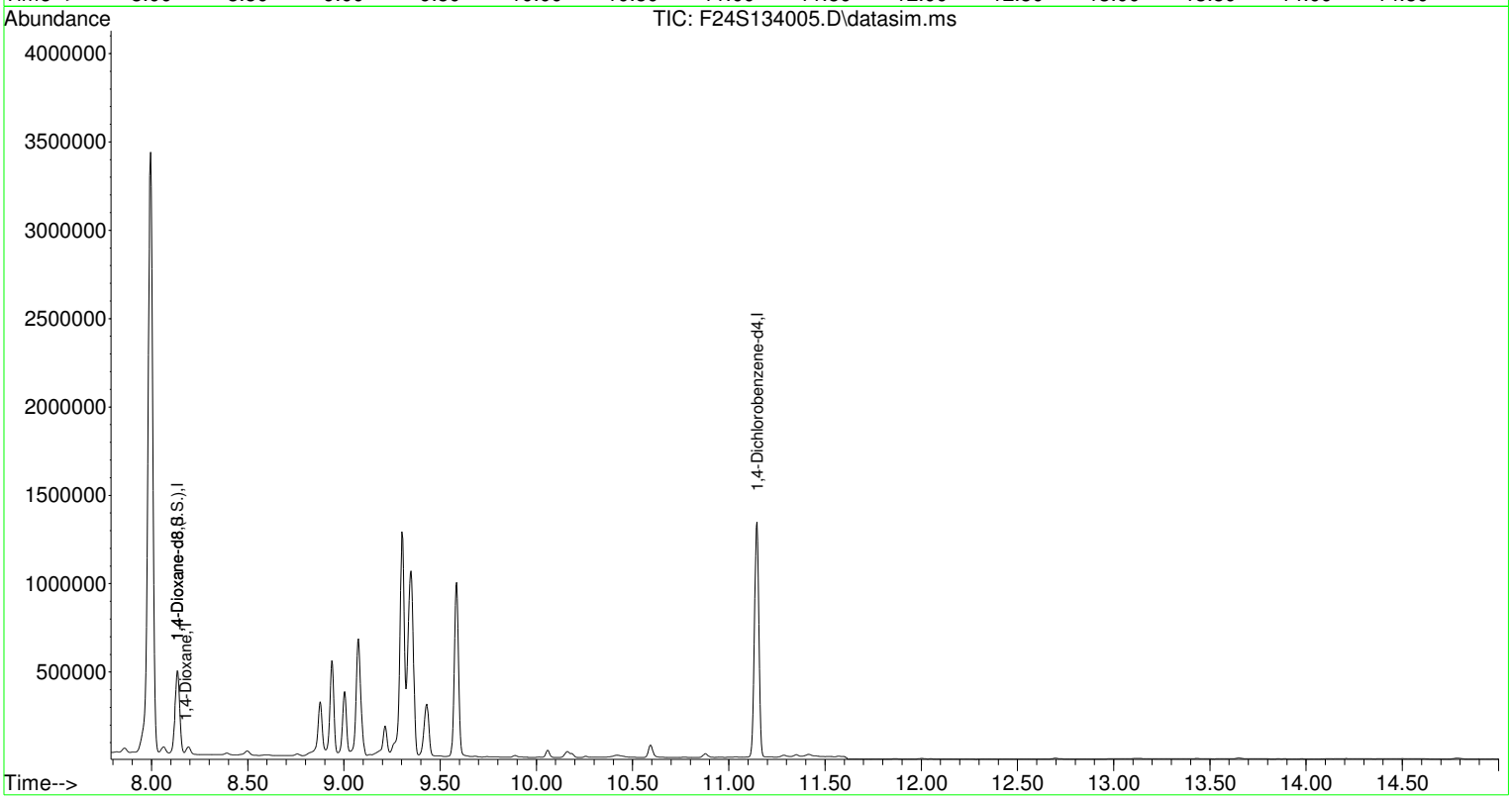
(#) = qualifier out of range (m) = manual integration (+) = signals summed

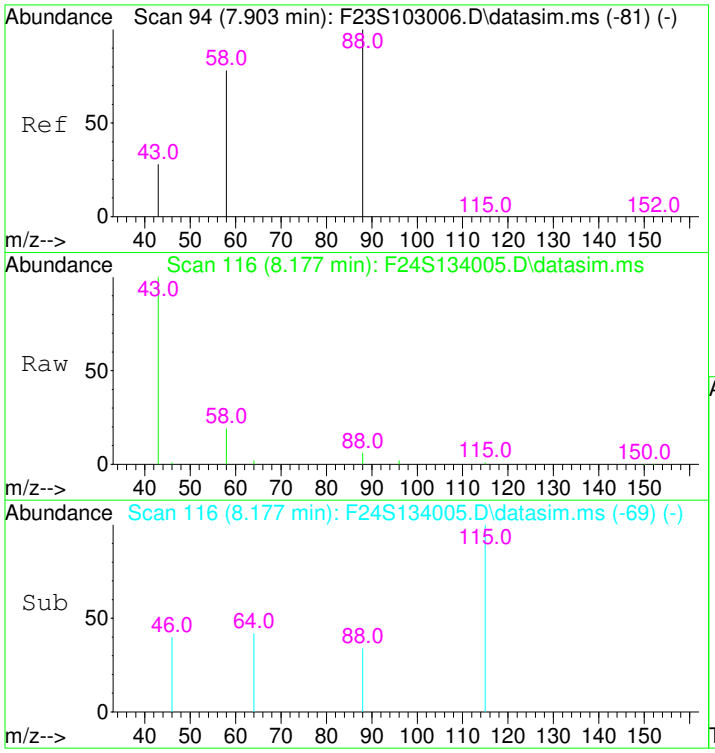
Data Path : C:\msdchem\1\data\F051324D\
Data File : F24S134005.D
Acq On : 13 May 2024 4:42 pm
Operator : GJB
Sample : B374074-BLK1 Inst : GCMSSV6
Misc :
ALS Vial : 5 Sample Multiplier: 1

886

Quant Time: May 14 07:27:47 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324dioxB.M
Quant Title :
QLast Update : Wed Mar 13 13:38:20 2024
Response via : Initial Calibration



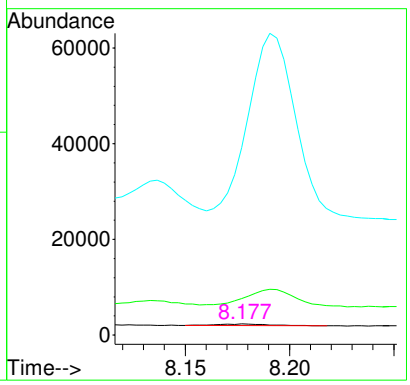




#4
1,4-Dioxane
Concen: 0.01 ug/mL
RT: 8.177 min Scan# 116
Delta R.T. 0.060 min
Lab File: F24S134005.D
Acq: 13 May 2024 4:42 pm

Tgt Ion: 88 Resp: 562

Ion	Ratio	Lower	Upper
88	100		
58	929.4	56.6	105.0#
43	10312.5	26.4	49.0#



1 - FORM I
ANALYSIS DATA SHEET

LCS

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374074-BS1	File ID:	F24S134003.D
Sampled:		Prepared:	05/10/24 18:53	Analyzed:	05/13/24 16:01
Solids:		Preparation:	SW-846 3546	Dilution:	
Initial/Final:	20.59 g / 1 mL				
Batch:	B374074	Sequence:	S104463	Calibration:	2400298
Instrument:	GCMSSV6				
Column:	1				

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
123-91-1	1,4-Dioxane	0.456	0.038	0.049	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\F051324D\
Data File : F24S134003.D
Acq On : 13 May 2024 4:01 pm
Operator : GJB
Sample : B374074-BS1 Inst : GCMSSV6
Misc : IS 24C0346 EX 091224
ALS Vial : 3 Sample Multiplier: 1

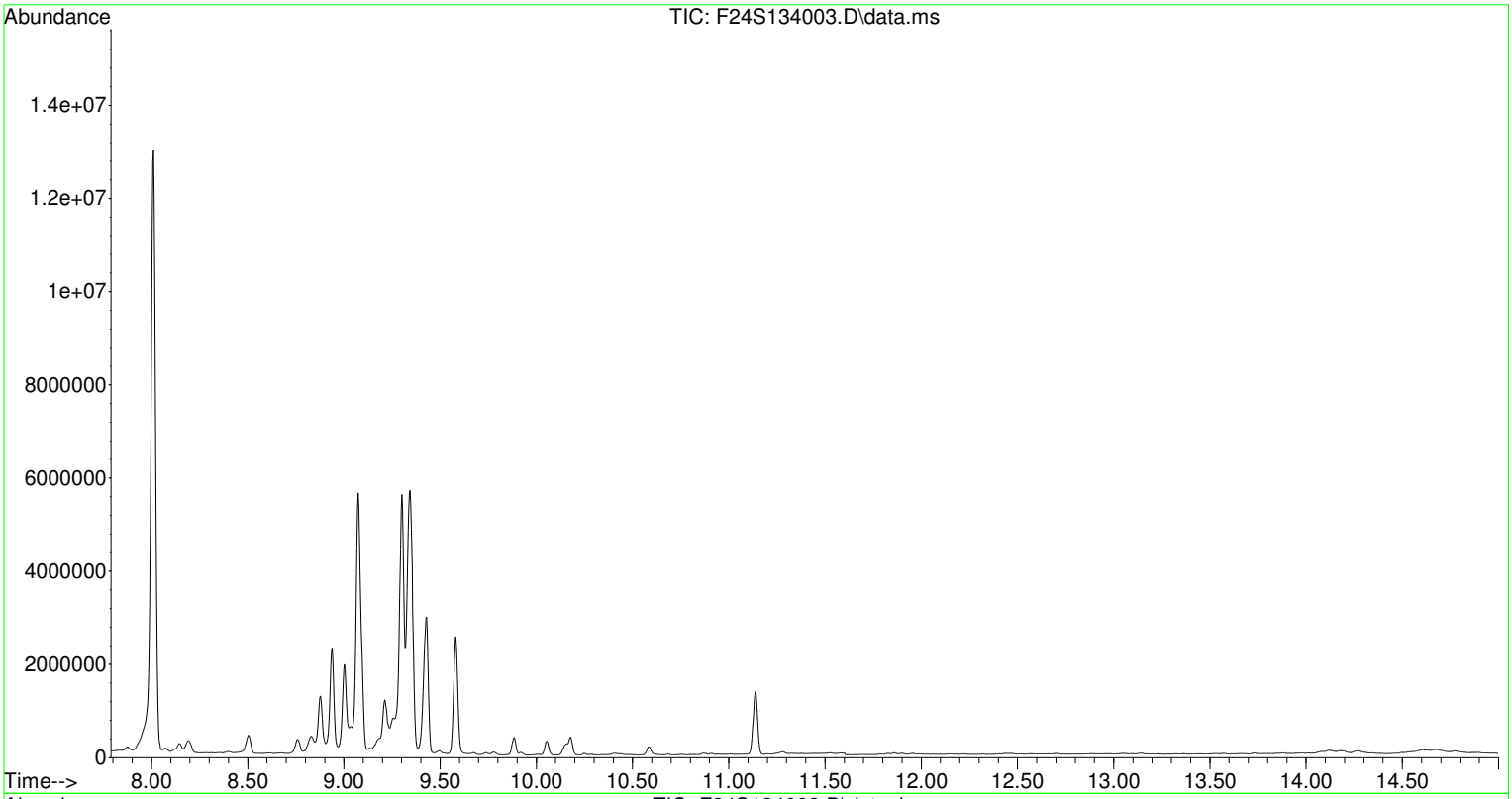
Quant Time: May 14 07:32:13 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324dioxB.M
Quant Title :
QLast Update : Wed Mar 13 13:38:20 2024
Response via : Initial Calibration

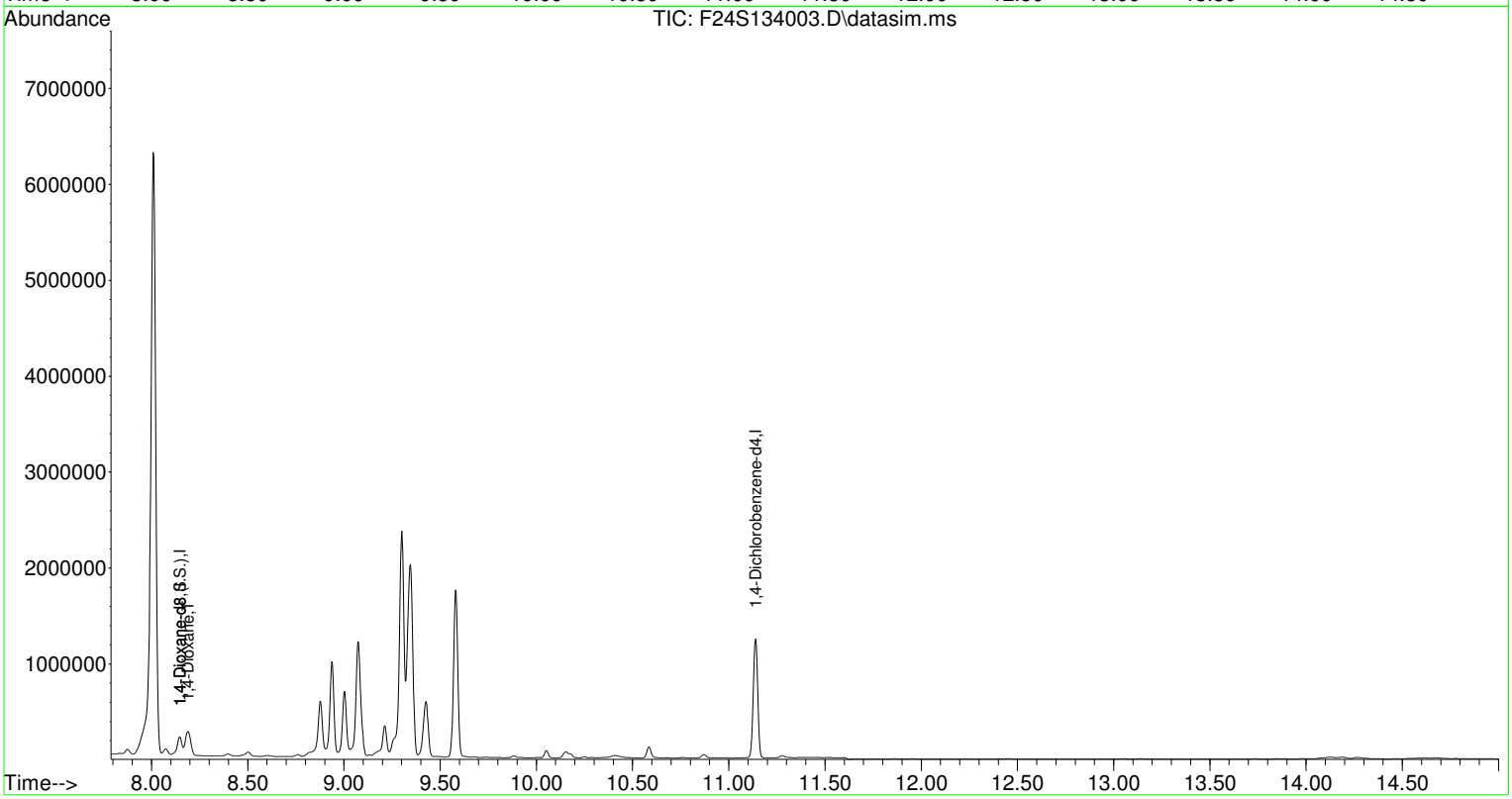
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	11.139	150	949257	10.000	ug/mL	-0.02
3) 1,4-Dioxane-d8 (I.S.)	8.147	96	148058m	10.000	ug/mL	0.07
System Monitoring Compounds						
2) 1,4-Dioxane-d8	8.147	96	148702m	5.085	ug/mL	0.08
Target Compounds						Qvalue
4] 1,4-Dioxane	8.187	88	163488	9.396	ug/mL#	62

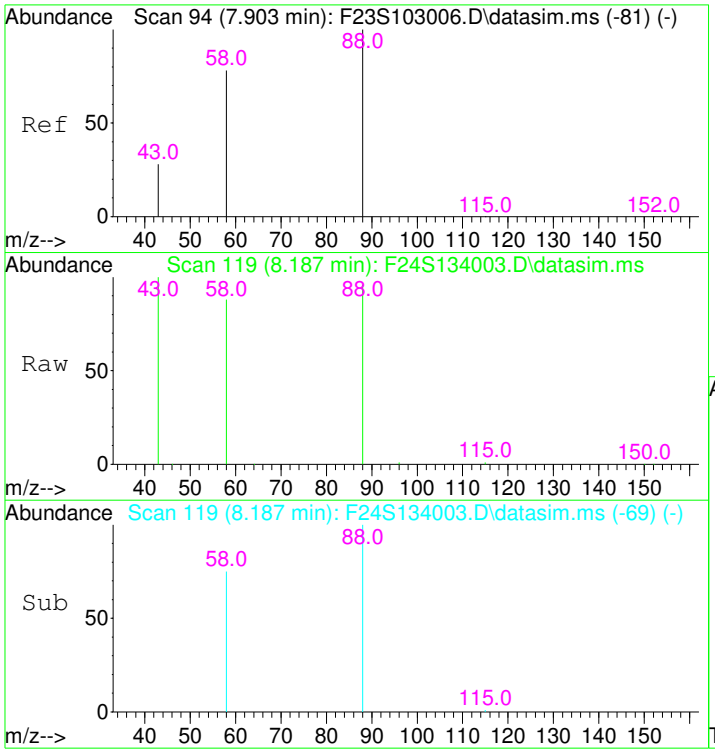
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\F051324D\
Data File : F24S134003.D
Acq On : 13 May 2024 4:01 pm
Operator : GJB
Sample : B374074-BS1 Inst : GCMSSV6
Misc : IS 24C0346 EX 091224
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 14 07:32:13 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324dioxB.M
Quant Title :
QLast Update : Wed Mar 13 13:38:20 2024
Response via : Initial Calibration



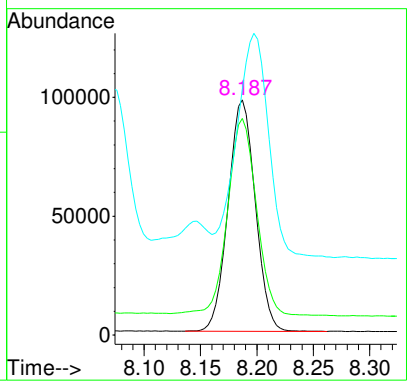




#4
1,4-Dioxane
Concen: 9.40 ug/mL
RT: 8.187 min Scan# 119
Delta R.T. 0.071 min
Lab File: F24S134003.D
Acq: 13 May 2024 4:01 pm

Tgt Ion: 88 Resp: 163488

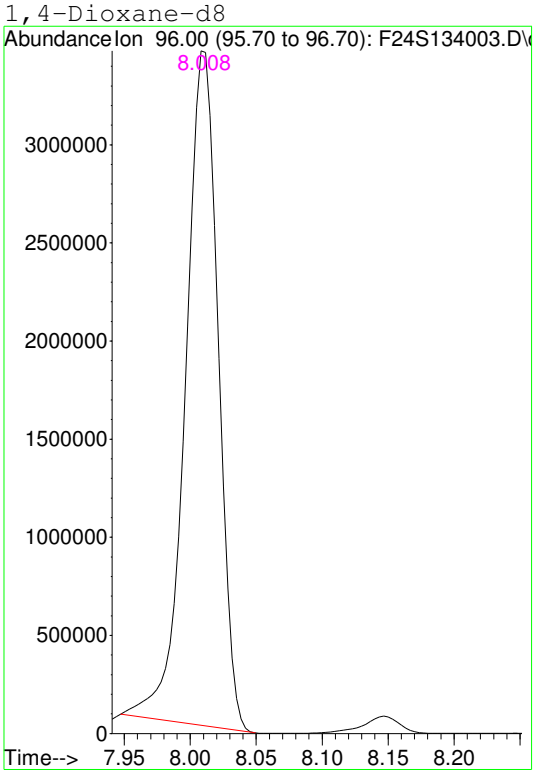
Ion	Ratio	Lower	Upper
88	100		
58	88.7	56.6	105.0
43	98.2	26.4	49.0#



Data Path : C:\msdchem\1\data\F051324D\
Data File : F24S134003.D
Acq On : 13 May 2024 4:01 pm
Operator : GJB
Sample : B374074-BS1
Misc : IS 24C0346 EX 091224

Quant Time : Tue May 14 07:32:13 2024
Quant Method : C:\msdchem\1\methods\DQ031324dioxB.M
QLast Update : Wed Mar 13 13:38:20 2024

Original Integration
1,4-Dioxane-d8



Original Int. Results

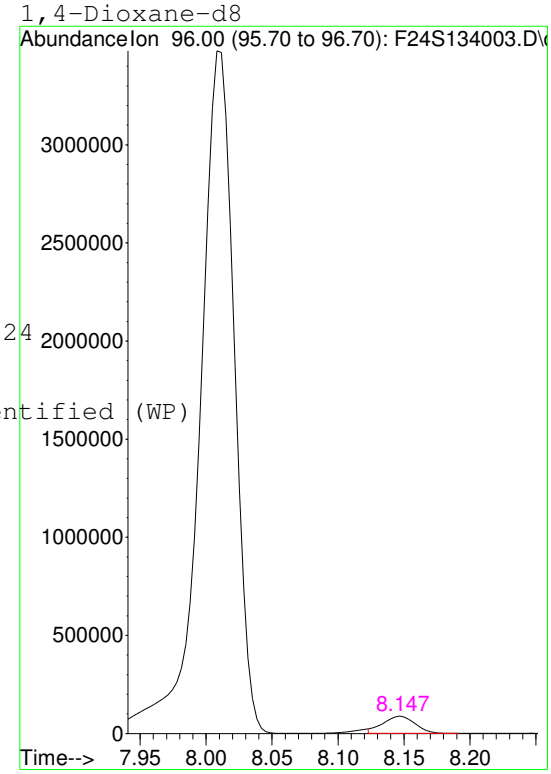
RT : 8.01
Area : 5.91296e+006
Amount: 202.212

Manual Int. Results

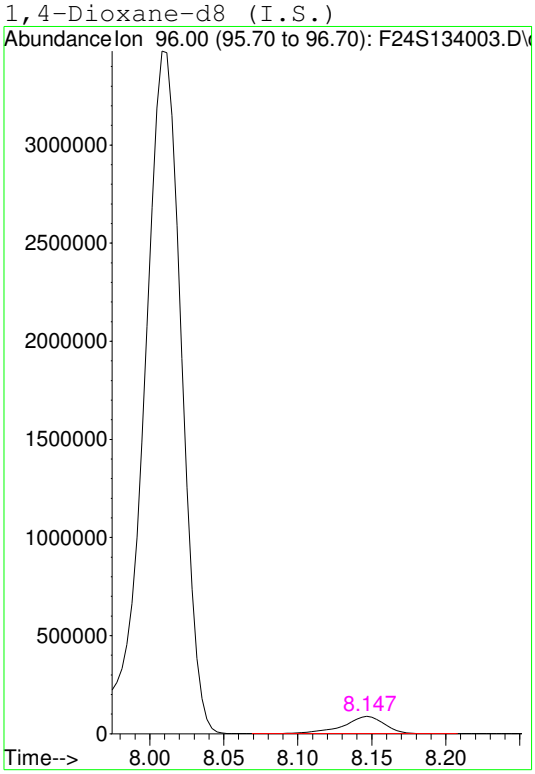
Tue May 14 07:31:23 2024

MIuser: GJB
Reason: Wrong peak identified (WP)
RT : 8.15
Area : 148702
Amount: 5.08533

Manual Integration
1,4-Dioxane-d8



Original Integration
1,4-Dioxane-d8 (I.S.)



Original Int. Results

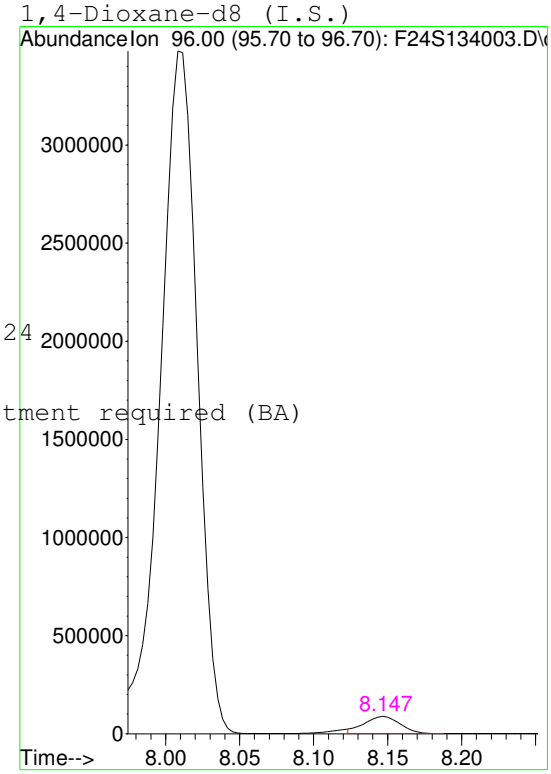
RT : 8.15
Area : 168083
Amount: 10

Manual Int. Results

Tue May 14 07:32:13 2024

MIuser: GJB
Reason: Baseline adjustment required (BA)
RT : 8.15
Area : 148058
Amount: 10

Manual Integration
1,4-Dioxane-d8 (I.S.)



1 - FORM I
ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374074-BSD1	File ID:	F24S134004.D
Sampled:		Prepared:	05/10/24 18:53	Analyzed:	05/13/24 16:22
Solids:		Preparation:	SW-846 3546	Dilution:	
Initial/Final:	20.65 g / 1 mL				
Batch:	B374074	Sequence:	S104463	Calibration:	2400298
Instrument:	GCMSSV6				
Column:	1				

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
123-91-1	1,4-Dioxane	0.507	0.038	0.048	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\F051324D\
Data File : F24S134004.D
Acq On : 13 May 2024 4:22 pm
Operator : GJB
Sample : B374074-BSD1 Inst : GCMSSV6
Misc : IS 24D0397 EX 100924
ALS Vial : 4 Sample Multiplier: 1

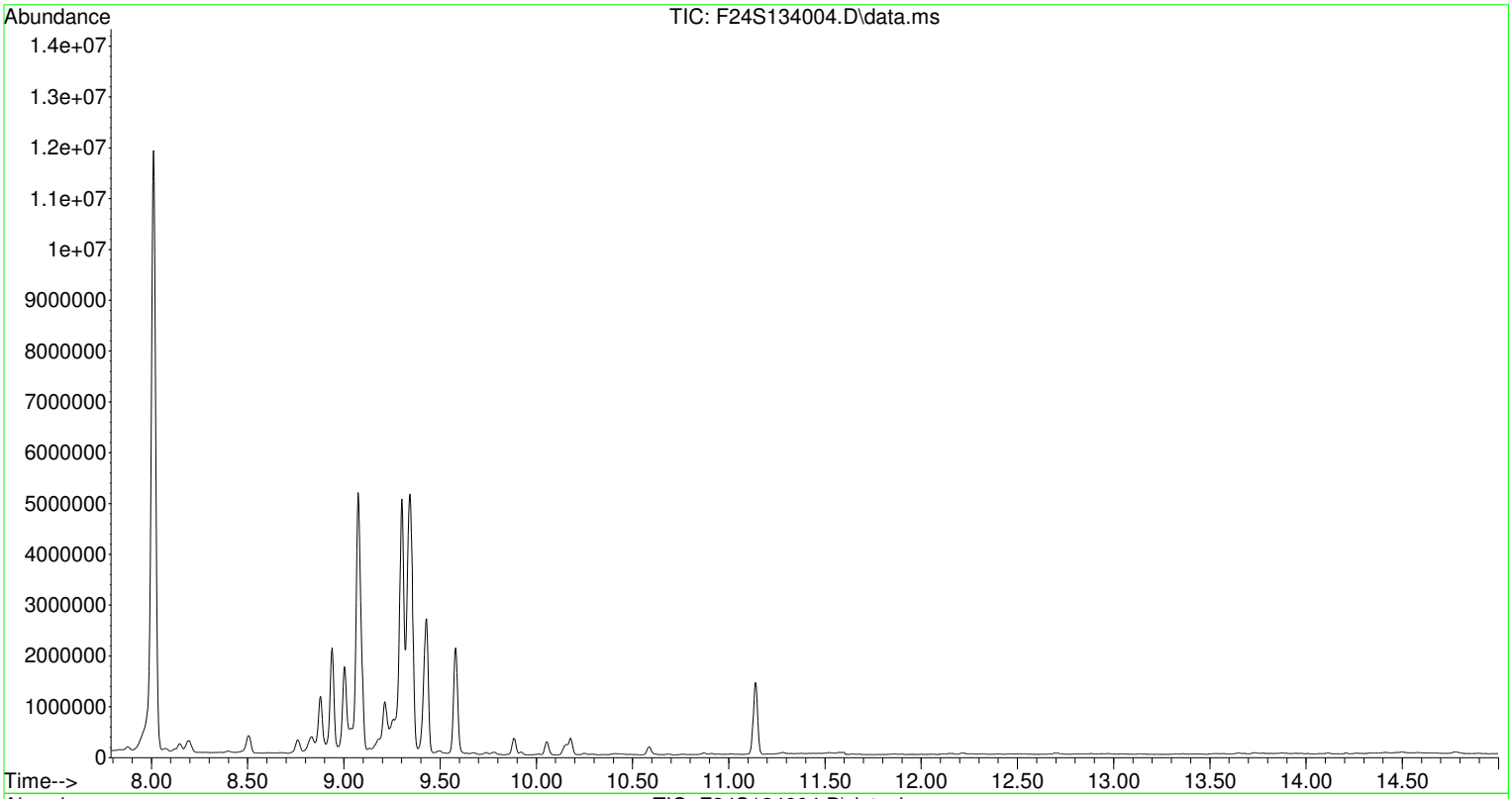
Quant Time: May 14 07:33:23 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324dioxB.M
Quant Title :
QLast Update : Wed Mar 13 13:38:20 2024
Response via : Initial Calibration

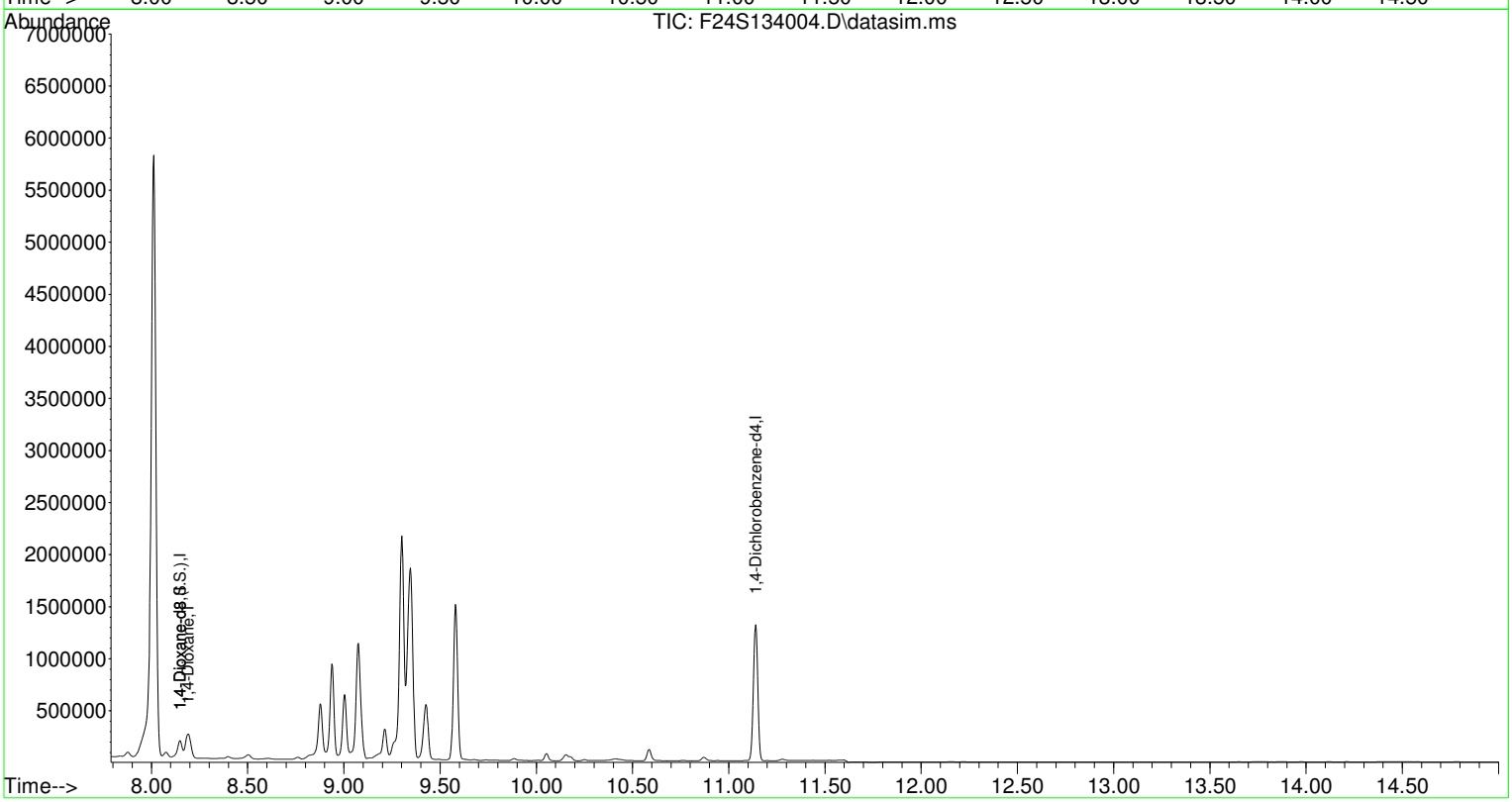
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	11.139	150	989753	10.000	ug/mL	-0.02
3) 1,4-Dioxane-d8 (I.S.)	8.147	96	123383m	10.000	ug/mL	0.07
System Monitoring Compounds						
2) 1,4-Dioxane-d8	8.147	96	123092m	4.037	ug/mL	0.08
Target Compounds						Qvalue
4] 1,4-Dioxane	8.188	88	151935	10.478	ug/mL#	63

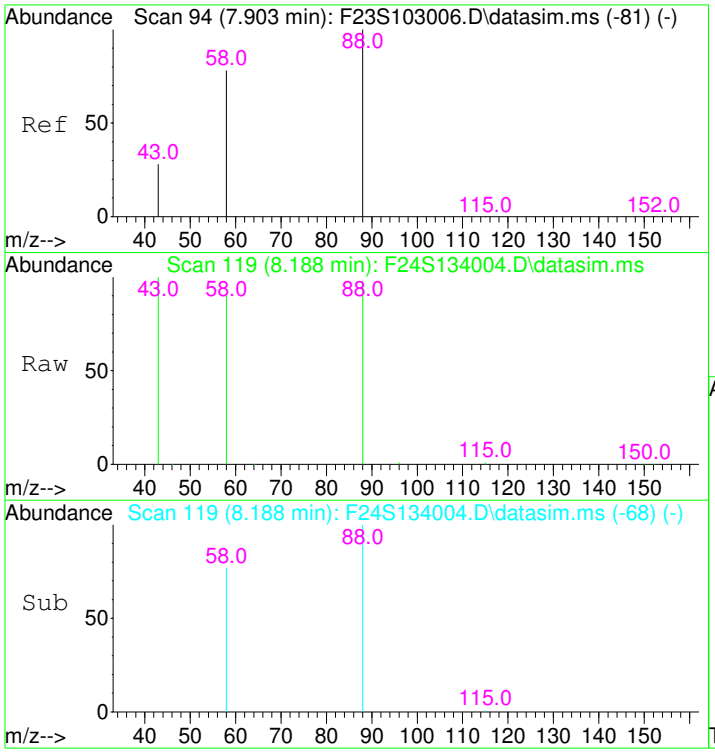
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\F051324D\
Data File : F24S134004.D
Acq On : 13 May 2024 4:22 pm
Operator : GJB
Sample : B374074-BSD1 Inst : GCMSSV6
Misc : IS 24D0397 EX 100924
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 14 07:33:23 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324dioxB.M
Quant Title :
QLast Update : Wed Mar 13 13:38:20 2024
Response via : Initial Calibration



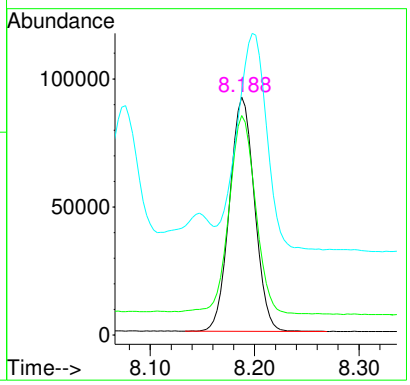




#4
1,4-Dioxane
Concen: 10.48 ug/mL
RT: 8.188 min Scan# 119
Delta R.T. 0.071 min
Lab File: F24S134004.D
Acq: 13 May 2024 4:22 pm

Tgt Ion: 88 Resp: 151935

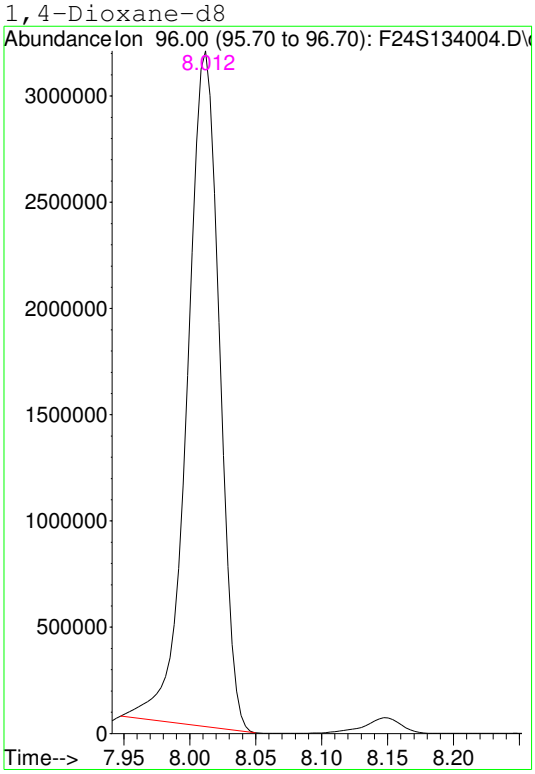
Ion	Ratio	Lower	Upper
88	100		
58	88.3	56.6	105.0
43	95.9	26.4	49.0#



Data Path : C:\msdchem\1\data\F051324D\
Data File : F24S134004.D
Acq On : 13 May 2024 4:22 pm
Operator : GJB
Sample : B374074-BSD1
Misc : IS 24D0397 EX 100924

Quant Time : Tue May 14 07:33:23 2024
Quant Method : C:\msdchem\1\methods\DQ031324dioxB.M
QLast Update : Wed Mar 13 13:38:20 2024

Original Integration
1,4-Dioxane-d8



Original Int. Results

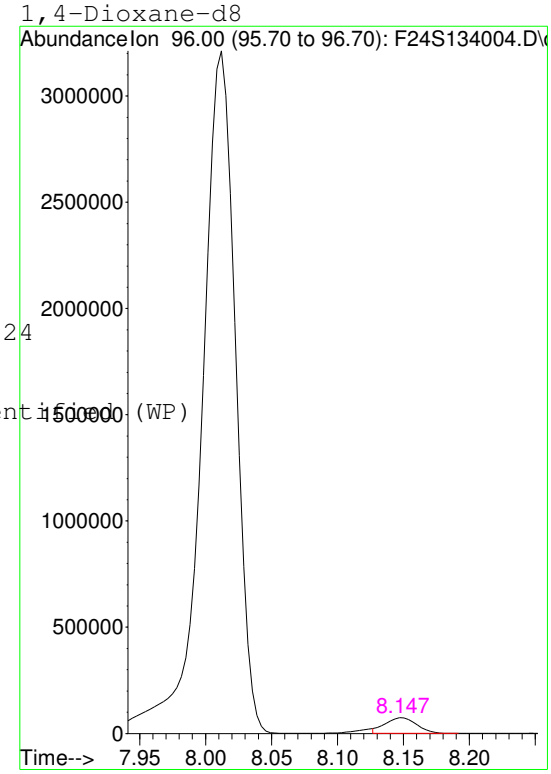
RT : 8.01
Area : 5.36282e+006
Amount: 175.895

Manual Int. Results

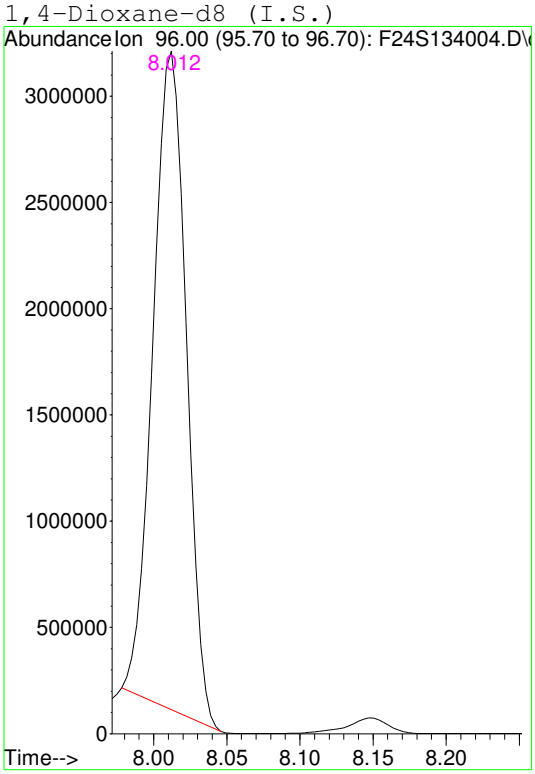
Tue May 14 07:33:23 2024

MIuser: GJB
Reason: Wrong peak identified (WP)
RT : 8.15
Area : 123092
Amount: 4.03728

Manual Integration
1,4-Dioxane-d8



Original Integration
1,4-Dioxane-d8 (I.S.)



Original Int. Results

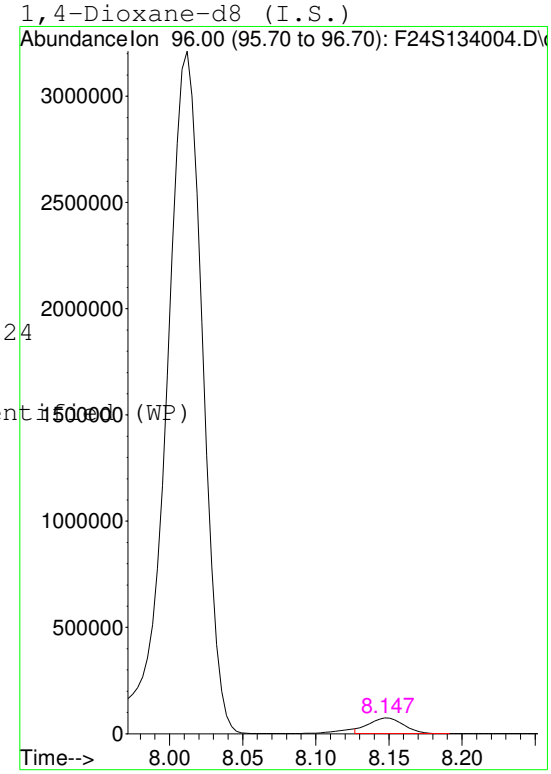
RT : 8.01
Area : 4.90303e+006
Amount: 10

Manual Int. Results

Tue May 14 07:33:12 2024

MIuser: GJB
Reason: Wrong peak identified (WP)
RT : 8.15
Area : 123383
Amount: 10

Manual Integration
1,4-Dioxane-d8 (I.S.)



1 - FORM I
ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374074-MS1	File ID:	F24S134009.D
Sampled:		Prepared:	05/10/24 18:53	Analyzed:	05/13/24 18:02
Solids:		Preparation:	SW-846 3546	Dilution:	
Initial/Final:	20.19 g / 1 mL				
Batch:	B374074	Sequence:	S104463	Calibration:	2400298
Instrument:	GCMSSV6				
Column:	1				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
123-91-1	1,4-Dioxane	0.646	0.054	0.068	

Quantitation Report (QT Reviewed)

899

Data Path : C:\msdchem\1\data\F051324D\
Data File : F24S134009.D
Acq On : 13 May 2024 6:02 pm
Operator : GJB
Sample : B374074-MS1 Inst : GCMSSV6
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 14 07:27:55 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324dioxB.M
Quant Title :
QLast Update : Wed Mar 13 13:38:20 2024
Response via : Initial Calibration

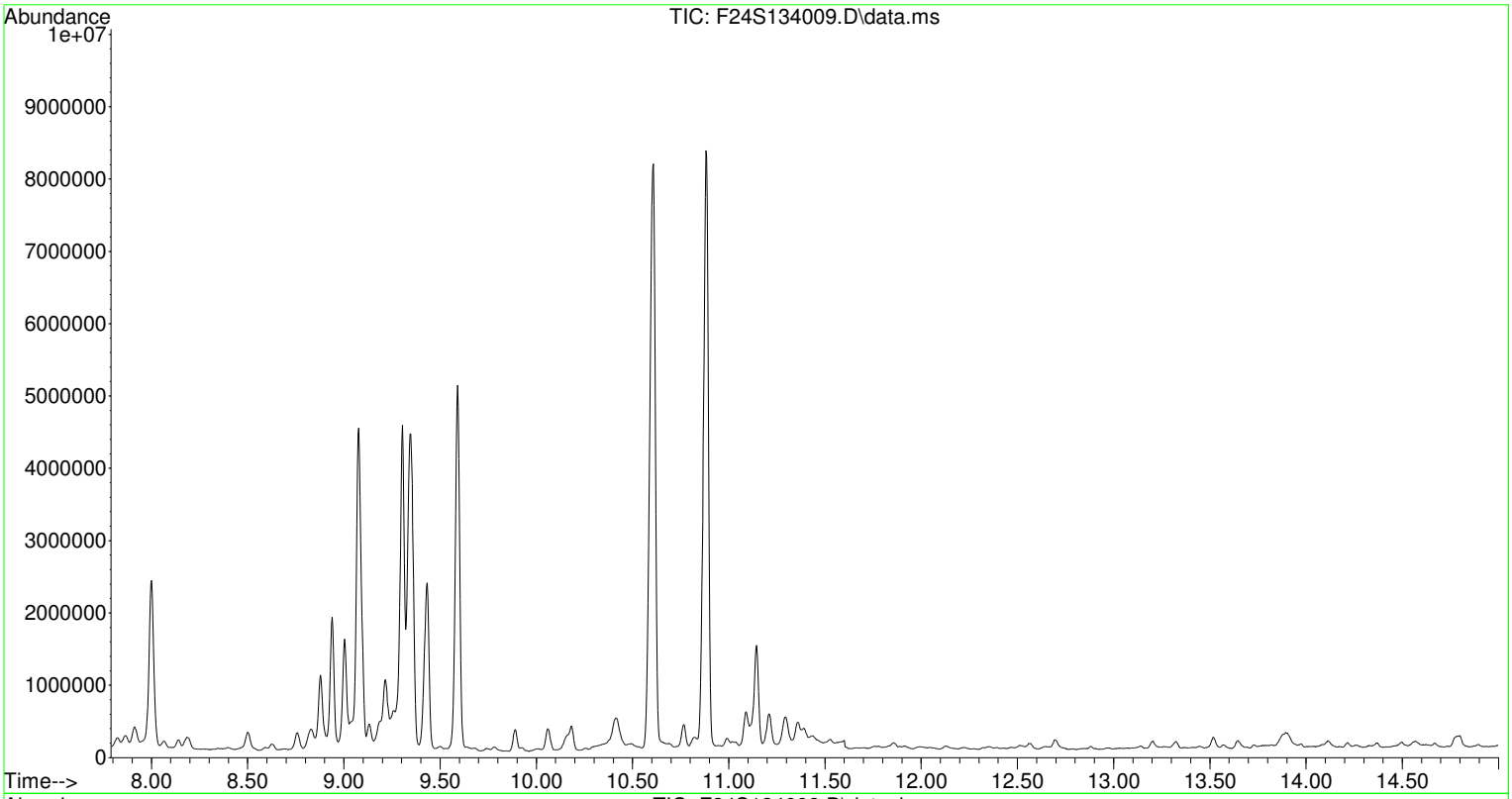
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	11.146	150	955223	10.000	ug/mL	-0.02
3) 1,4-Dioxane-d8 (I.S.)	8.140	96	97370	10.000	ug/mL	0.07
System Monitoring Compounds						
2) 1,4-Dioxane-d8	8.140	96	97370	3.309	ug/mL	0.07
Target Compounds						Qvalue
4] 1,4-Dioxane	8.181	88	108295	9.464	ug/mL#	60

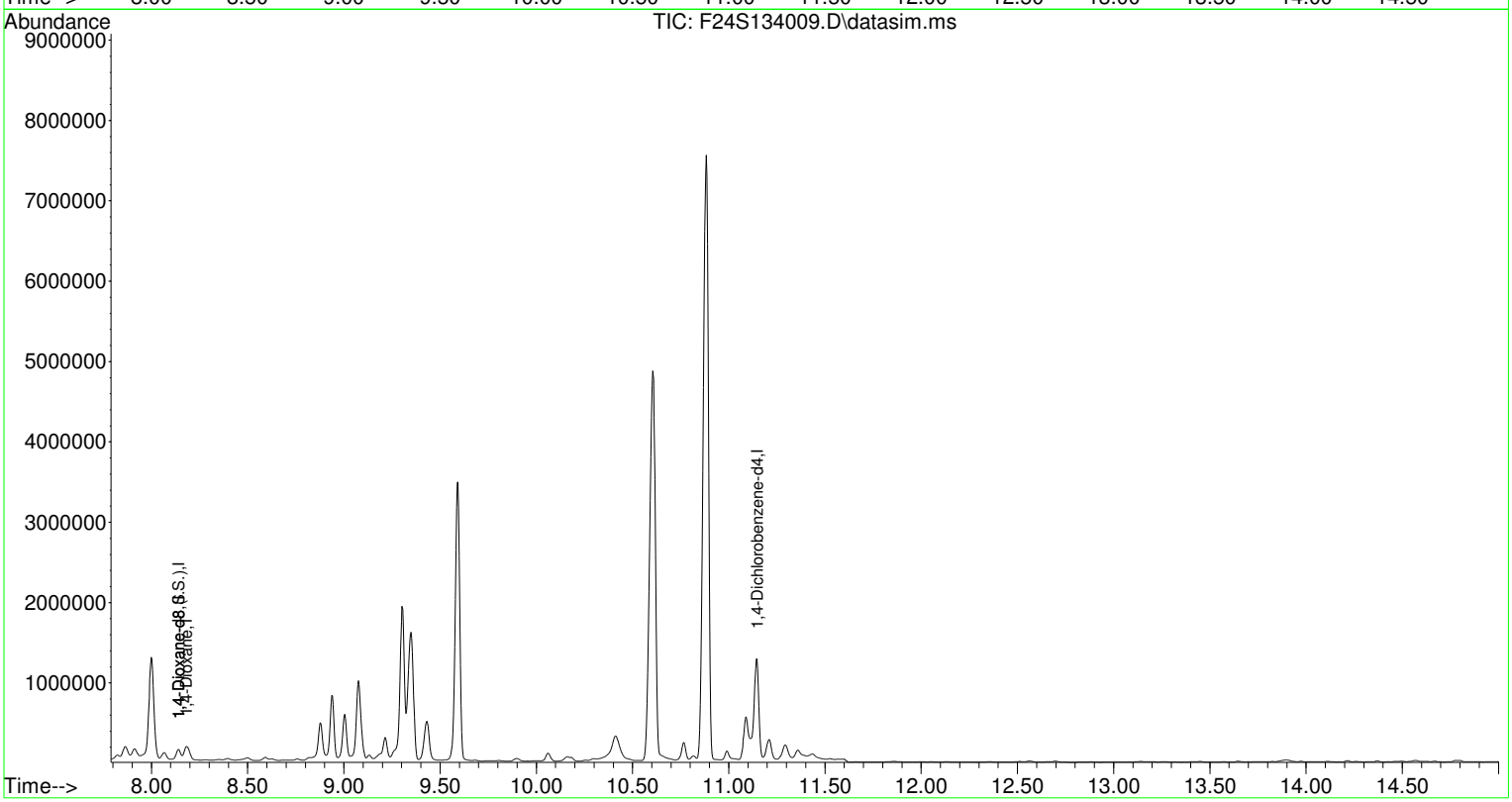
(#) = qualifier out of range (m) = manual integration (+) = signals summed

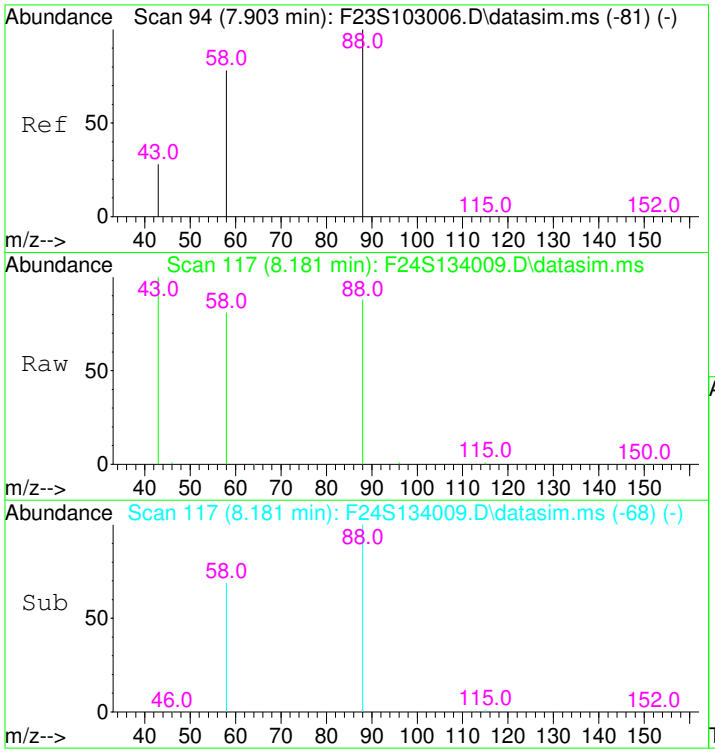
Data Path : C:\msdchem\1\data\F051324D\
Data File : F24S134009.D
Acq On : 13 May 2024 6:02 pm
Operator : GJB
Sample : B374074-MS1 Inst : GCMSSV6
Misc :
ALS Vial : 9 Sample Multiplier: 1

900

Quant Time: May 14 07:27:55 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324dioxB.M
Quant Title :
QLast Update : Wed Mar 13 13:38:20 2024
Response via : Initial Calibration



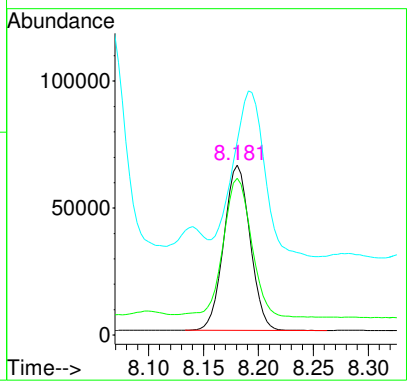




#4
1,4-Dioxane
Concen: 9.46 ug/mL
RT: 8.181 min Scan# 117
Delta R.T. 0.064 min
Lab File: F24S134009.D
Acq: 13 May 2024 6:02 pm

Tgt Ion: 88 Resp: 108295

Ion	Ratio	Lower	Upper
88	100		
58	87.6	56.6	105.0
43	103.4	26.4	49.0#



1 - FORM I
ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374074-MSD1	File ID:	F24S134010.D
Sampled:		Prepared:	05/10/24 18:53	Analyzed:	05/13/24 18:22
Solids:		Preparation:	SW-846 3546	Dilution:	
Initial/Final:	20.18 g / 1 mL				
Batch:	B374074	Sequence:	S104463	Calibration:	2400298
Instrument:	GCMSSV6				
Column:	1				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
123-91-1	1,4-Dioxane	0.658	0.054	0.068	

Quantitation Report (QT Reviewed)

903

Data Path : C:\msdchem\1\data\F051324D\
Data File : F24S134010.D
Acq On : 13 May 2024 6:22 pm
Operator : GJB
Sample : B374074-MSD1 Inst : GCMSSV6
Misc :
ALS Vial : 10 Sample Multiplier: 1

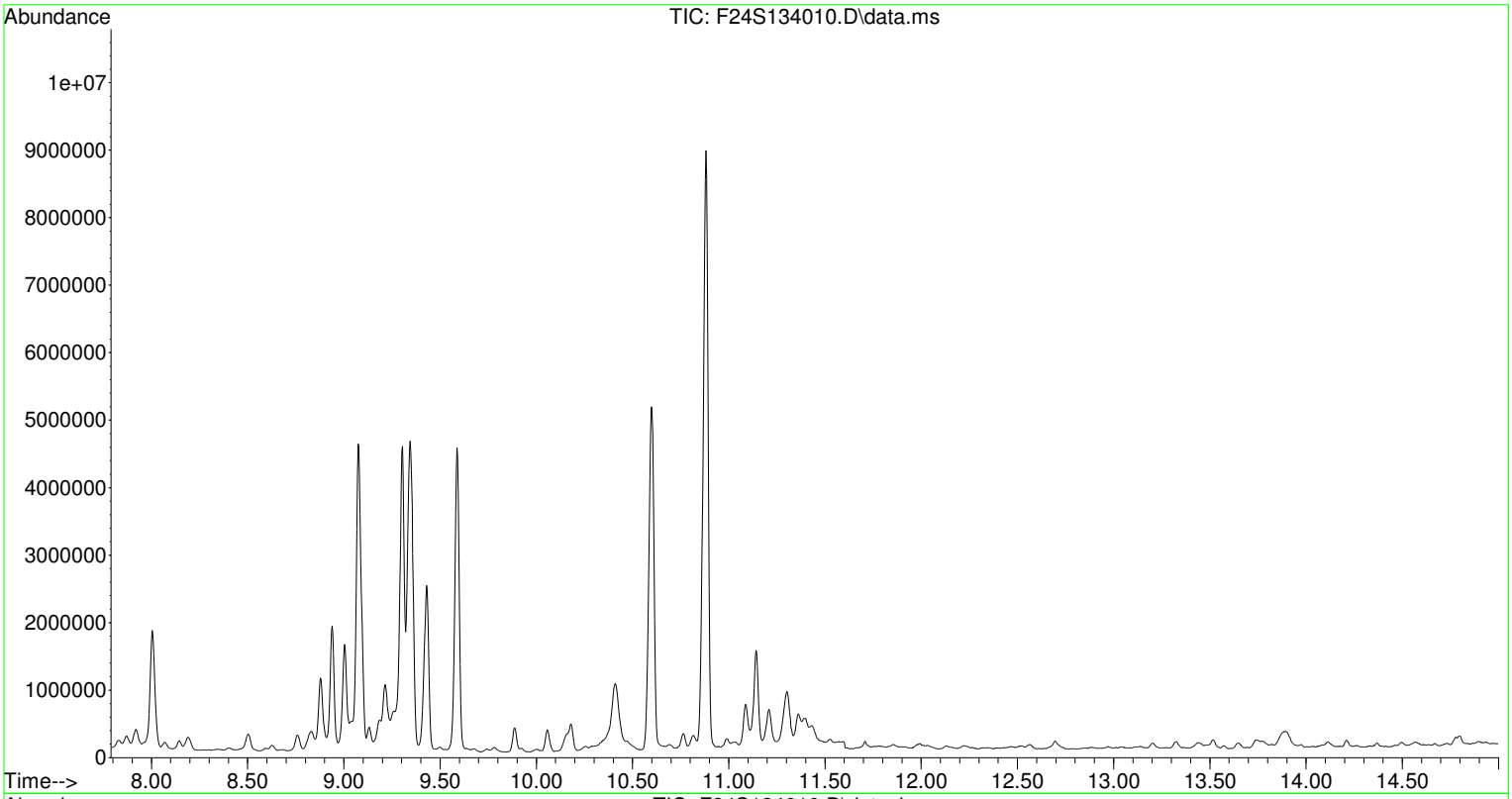
Quant Time: May 14 07:27:57 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324dioxB.M
Quant Title :
QLast Update : Wed Mar 13 13:38:20 2024
Response via : Initial Calibration

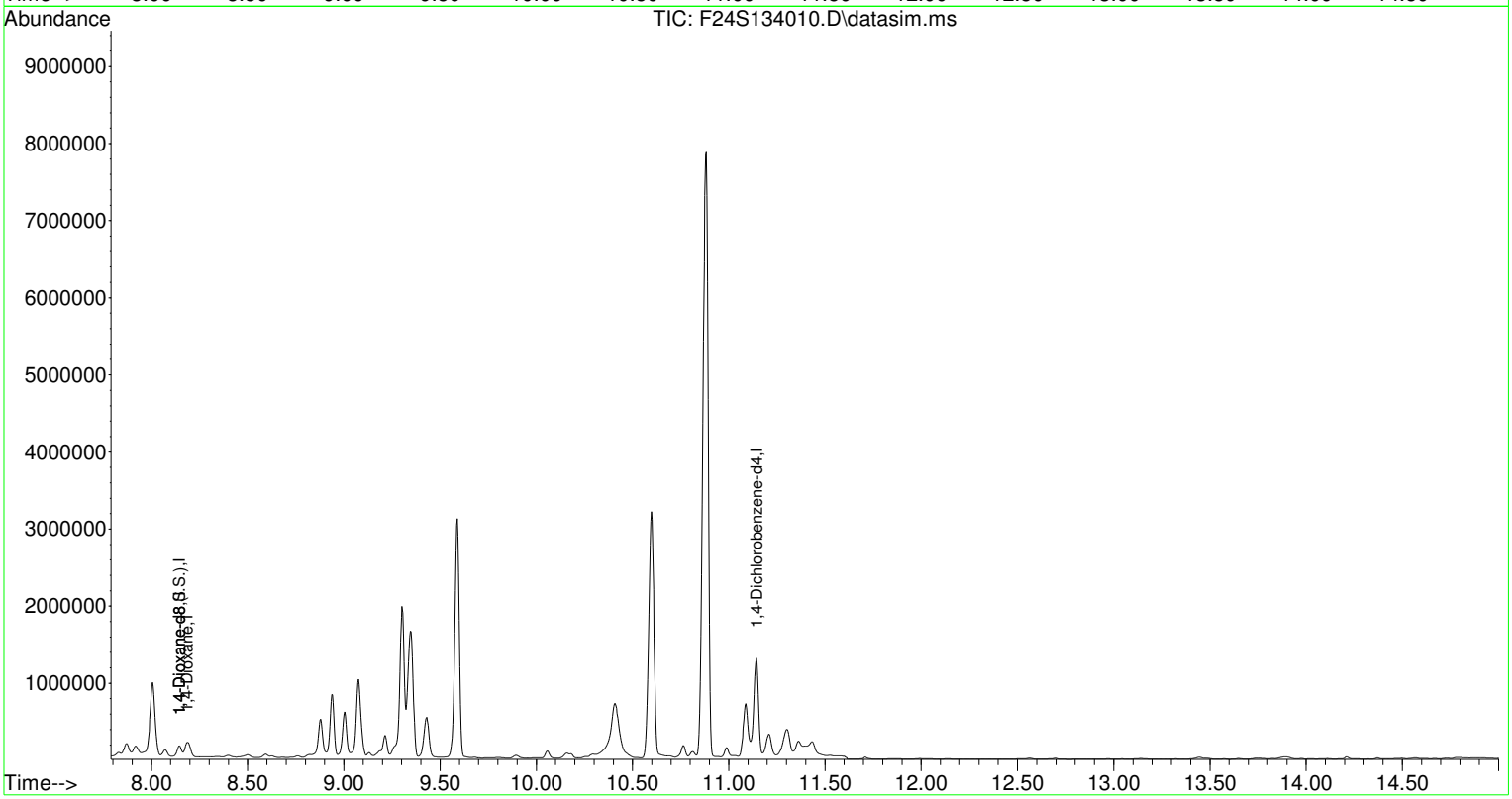
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	11.143	150	962025	10.000	ug/mL	-0.02
3) 1,4-Dioxane-d8 (I.S.)	8.144	96	106617	10.000	ug/mL	0.07
System Monitoring Compounds						
2) 1,4-Dioxane-d8	8.144	96	106617	3.598	ug/mL	0.07
Target Compounds						Qvalue
4] 1,4-Dioxane	8.184	88	120623	9.627	ug/mL#	60

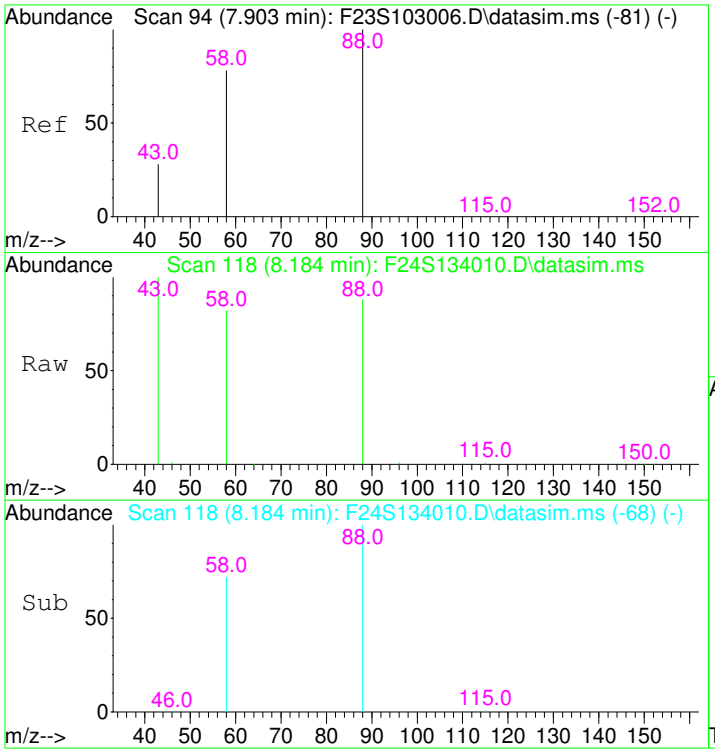
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\data\F051324D\
Data File : F24S134010.D
Acq On : 13 May 2024 6:22 pm
Operator : GJB
Sample : B374074-MSD1 Inst : GCMSSV6
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 14 07:27:57 2024
DataAcq Meth:D051518.M
Quant Method : C:\msdchem\1\methods\DQ031324dioxB.M
Quant Title :
QLast Update : Wed Mar 13 13:38:20 2024
Response via : Initial Calibration



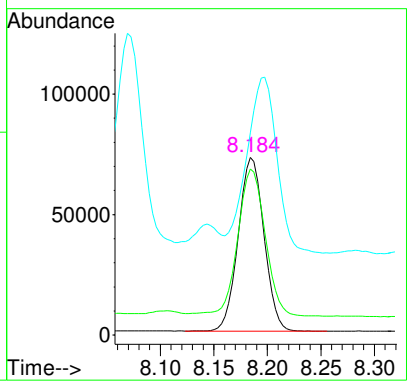




#4
1,4-Dioxane
Concen: 9.63 ug/mL
RT: 8.184 min Scan# 118
Delta R.T. 0.067 min
Lab File: F24S134010.D
Acq: 13 May 2024 6:22 pm

Tgt Ion: 88 Resp: 120623

Ion	Ratio	Lower	Upper
88	100		
58	88.1	56.6	105.0
43	103.4	26.4	49.0#



PREPARATION BENCH SHEET

Analysis
1,4-Dioxane SIM

B374074

Pace New England

Printed: 5/10/2024 10:18:48PM

Surrogate Solution
24E0213 1,4-Dioxane Surrogate - 100 ug/mL

Spiking Solution
24E0225 1,4-Dioxane Spike - 100 ug/mL

Prepared using: SW-846 3546

Matrix: Soil

Lab Number	Sample ID and Source Sample	Due Date	Expires	Concentrated	Add'l Notes	Initial (g)	Final (mL)	ul Spike	ul Surrogate	Extraction Comments	TAT
B374074-BLK1	Blank			EGA 5/13/24		20.63g	1.0		100		
B374074-BS1	LCS					20.59g		100	100		
B374074-BSD1	LCS Dup					20.65g		100	100		
B374074-MS1	Matrix Spike [24E1437-06]					20.19g		100	100		
B374074-MSD1	Matrix Spike Dup [24E1437-06]					20.18g		100	100		
24E1437-02	CG-2	05/24/24	05/22/24			20.52g			100	CATB	10
24E1437-04	B1A	05/24/24	05/22/24			20.80g			100	CATB	10
24E1437-06	SB1A	05/24/24	05/22/24			20.17g			100	CATB	10
24E1437-12	SB4A	05/24/24	05/22/24			20.00g			100	CATB	10
24E1437-17	SB7	05/24/24	05/22/24			20.80g			100	CATB	10
24E1437-19	DUP	05/24/24	05/22/24	MLR 05/14/24		20.40g	1.0		100	CATB	10
24E1455-10	SB-302 (14-15)	05/21/24	05/23/24	EGA 5/13/24	wet sand	20.11g	1.0		100	CAT B REPORT TO MDL	7
24E1455-20	SB-302 (117-118)	05/21/24	05/23/24		sand	20.71g			100	CAT B REPORT TO MDL	7

Start Date/Time _____

StopDate/Time _____

Standard ID#	Description
24D0807	Methylene Chloride (200 L Drum)
24E0170	Acetone
24E0266	Filter Paper (Fisher) 15.0cm
24E0328	Sodium Sulfate (Baked)

B-EXT-024

Mars #1

SPK TMR 5/10/24
Spikedby/Witnessed By Date

WIT SRK
Witnessed By

TMR 5/10/24
Extracted By Date

906

C:\ELMNT\Print\bch_DEF_EXT_TAT.rpt

FILE: 3546EXPRESS 10/05/2024 23:22

C:\msdchem\1\data\F051324D\

Date	Filename	Lab ID	Sample Info
13 May 2024 3:20 pm	F24S134001.D	DIOX 10 ug/mL	ST 24C0356 EX 091224
13 May 2024 3:41 pm	F24S134002.D	DIOX D8 ug/mL	ST 24C0548 EX 091224
13 May 2024 4:01 pm	F24S134003.D	B374074-BS1	IS 24C0346 EX 091224
13 May 2024 4:22 pm	F24S134004.D	B374074-BSD1	IS 24D0397 EX 100924
13 May 2024 4:42 pm	F24S134005.D	B374074-BLK1	
13 May 2024 5:02 pm	F24S134006.D	24E1455-10	
13 May 2024 5:22 pm	F24S134007.D	24E1455-20	
13 May 2024 5:42 pm	F24S134008.D	24E1437-06	
13 May 2024 6:02 pm	F24S134009.D	B374074-MS1	
13 May 2024 6:22 pm	F24S134010.D	B374074-MSD1	
13 May 2024 6:43 pm	F24S134011.D	24E1437-12	
13 May 2024 7:02 pm	F24S134012.D	24E1437-17	
13 May 2024 7:23 pm	F24S134013.D	24E1437-02	
13 May 2024 7:43 pm	F24S134014.D	24E1437-04	

C:\msdchem\1\data\F051524D\

Date	Filename	Lab ID	Sample Info
15 May 2024 8:33 am	F24S136001.D	DIOX 10 ug/mL	ST 24E0247 EX 091224
15 May 2024 8:54 am	F24S136002.D	DIOX D8 ug/mL	ST 24D0548 EX 091224
15 May 2024 9:17 am	F24S136003.D	24E1753-01	IS 24C0346 EX 091224
15 May 2024 9:38 am	F24S136004.D	24E1753-02	IS 24E0248 EX 110824
15 May 2024 9:58 am	F24S136005.D	24E1437-19	

PFAS

SAMPLE DATA

1 - FORM I
ANALYSIS DATA SHEET

CG-2

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-02	File ID:	24E1437-02.d
Sampled:	05/08/24 10:40	Prepared:	05/15/24 00:00	Analyzed:	05/18/24 09:52
Solids:	62.99	Preparation:	Draft Method 1633	Dilution:	1
Initial/Final:	7.995 g / 5 mL				
Batch:	B374213	Sequence:	S104823	Calibration:	2400518
				Instrument:	QQQ6

CAS NO.	COMPOUND	CONC. (µg/kg dry)	MDL	RL	Q
375-22-4	Perfluorobutanoic acid (PFBA)		0.32	0.79	
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.17	0.045	0.40	J
307-24-4	Perfluorohexanoic acid (PFHxA)	0.23	0.033	0.20	
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.085	0.014	0.20	J
335-67-1	Perfluorooctanoic acid (PFOA)	0.29	0.031	0.20	
375-95-1	Perfluorononanoic acid (PFNA)	0.13	0.014	0.20	J
335-76-2	Perfluorodecanoic acid (PFDA)	0.15	0.017	0.20	J
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.085	0.023	0.20	J
307-55-1	Perfluorododecanoic acid (PFDoA)	0.080	0.022	0.20	J
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.036	0.022	0.20	J
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.039	0.020	0.20	PF-22, J
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.035	0.021	0.20	J
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)		0.025	0.20	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)		0.078	0.20	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)		0.021	0.20	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.45	0.032	0.20	
68259-12-1	Perfluorononanesulfonic acid (PFNS)		0.022	0.20	
335-77-3	Perfluorodecanesulfonic acid (PFDS)		0.032	0.20	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)		0.030	0.20	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (		0.069	0.79	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid ((		0.50	0.79	PF-17
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (		0.092	0.79	PF-17
754-91-6	Perfluorooctanesulfonamide (PFOSA)		0.031	0.20	
31506-32-8	N-methyl perfluoroocatnesulfonamide (NMeF		0.025	0.20	
4151-50-2	N-ethyl perfluorooctanesulfonamide (NEtFOS		0.023	0.20	
2355-31-9	N-MeFOSAA (NMeFOSAA)		0.036	0.20	V-05
2991-50-6	N-EtFOSAA (NEtFOSAA)		0.030	0.20	
24448-09-7	N-methylperfluorooctanesulfonamidoethanol(		0.21	2.0	
1691-99-2	N-ethylperfluorooctanesulfonamidoethanol (N		0.21	2.0	
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPC		0.051	0.79	

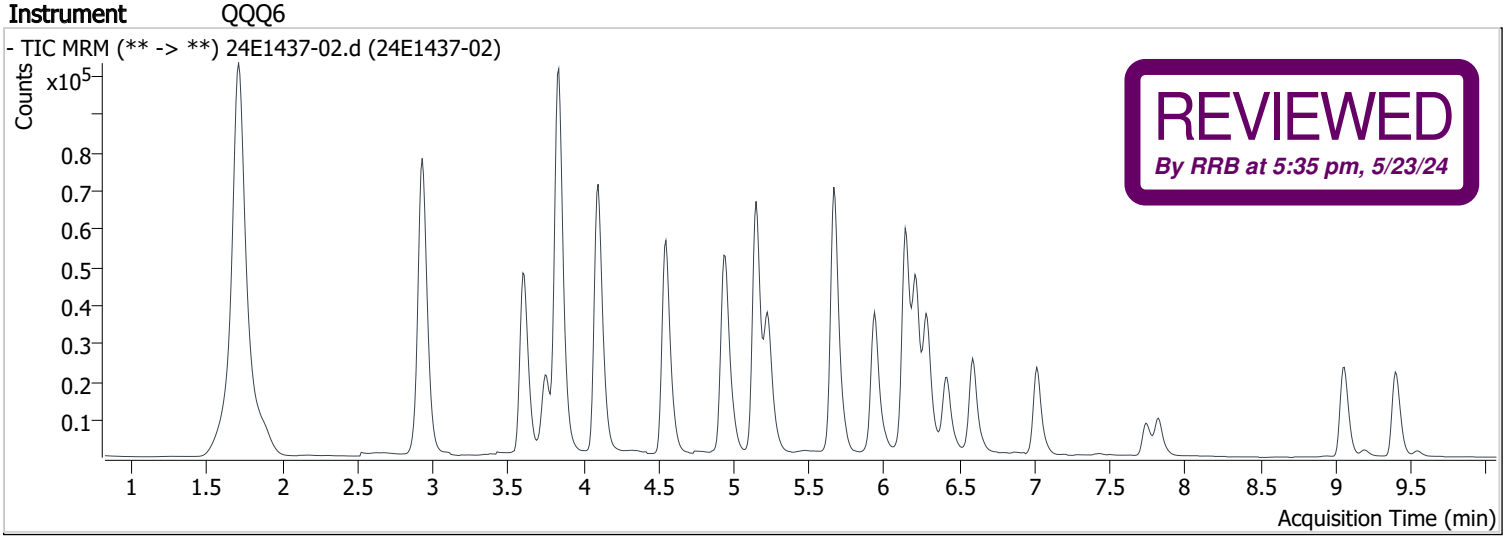
1 - FORM I
ANALYSIS DATA SHEET

CG-2

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-02	File ID:	24E1437-02.d
Sampled:	05/08/24 10:40	Prepared:	05/15/24 00:00	Analyzed:	05/18/24 09:52
Solids:	62.99	Preparation:	Draft Method 1633	Dilution:	1
Initial/Final:	7.995 g / 5 mL				
Batch:	B374213	Sequence:	S104823	Calibration:	2400518
Instrument:	QQQ6				

CAS NO.	COMPOUND	CONC. (µg/kg dry)	MDL	RL	Q
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADON		0.059	0.79	
756426-58-1	9Cl-PF3ONS (F53B Minor)		0.057	0.79	
763051-92-9	11Cl-PF3OUdS (F53B Major)		0.088	0.79	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)(3:3		0.19	2.0	
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)		1.3	9.9	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)(7:3		1.5	9.9	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEE		0.031	0.40	
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)		0.032	0.40	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)		0.033	0.40	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)		0.060	0.40	

Batch Path	R:\Data\MAY2024\051724\QuantResults\B374213.batch.bin		
Analysis Time	5/23/2024 5:54 AM	**Last Calib Update**	5/9/2024 9:16 AM
Acq. Time	5/18/2024 9:52 AM	**Data File**	24E1437-02.d
Sample Type	Sample	**Sample Name**	24E1437-02
Dilution	1	**Acq. Method**	1633_ACQUISITION_01.m
Sample Comment		**Processing method**	1633_050824.m
Instrument	QQQ6		



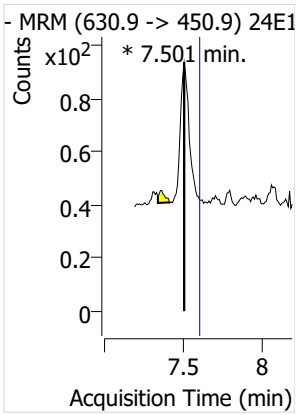
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
11Cl-PF3OUdS	7.501	0			13C3-HFPODA - ISTD	4.103	190753	-	ng/ml	✔	1	ALB 5/22/24
633.0 -> 453.0				*								
3:3FTCA	2.413	0			13C5-PFPeA - ISTD	2.928	327442	-	ng/ml	✔	1	ALB 5/22/24
241.0 -> 117.0				*								
4:2FTS	3.590	0			13C2-4:2FTS - ISTD	3.597	53410	-	ng/ml	✔	1	ALB 5/22/24
327.0 -> 80.9				*								
5:3FTCA	4.220	0			13C5-PFHxA - ISTD	3.836	176246	-	ng/ml	✔	1	ALB 5/22/24
341.0 -> 217.0				*								
6:2FTS	4.934	569	68.27		13C2-6:2FTS - ISTD	4.933	49914	0.0168	ng/ml			
427.0 -> 80.9			12.31	45.9								
7:3FTCA	5.658	0			13C5-PFHxA - ISTD	3.836	176246	-	ng/ml	✔	1	ALB 5/22/24
441.0 -> 317.0				*								
8:2FTS	6.000	0			13C2-8:2FTS - ISTD	5.934	38218	-	ng/ml	✔	1	ALB 5/22/24
527.0 -> 81.0				*								
9Cl-PF3ONS	6.655	0			13C3-HFPODA - ISTD	4.103	190753	-	ng/ml	✔	1	ALB 5/22/24
533.0 -> 353.0				*								
ADONA	4.781	0			13C3-HFPODA - ISTD	4.103	190753	-	ng/ml	✔	1	ALB 5/22/24
377.0 -> 85.1				*								

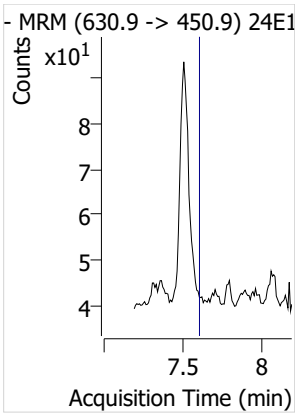
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA	4.096	0			13C3-HFPODA - ISTD	4.103	190753	-	ng/ml	✔	1	ALB 5/22/24
285.0 -> 184.9				*								
NEtFOSA	9.556	0			D5-NEtFOSA - ISTD	9.546	4904	-	ng/ml	✔	1	ALB 5/22/24
526.0 -> 219.0				*								
NEtFOSAA	6.431	233	63.53		D5-NEtFOSAA - ISTD	6.414	80027	0.0120	ng/ml			
584.0 -> 526.0			21.75	87.5								
NEtFOSE	9.345	178	5.59		D9-NEtFOSE - ISTD	9.394	85800	0.0465	ng/ml	✔	3	ALB 5/22/24
NFDHA	3.758	0			13C5-PFHxA - ISTD	3.836	176246	-	ng/ml	✔	1	ALB 5/22/24
295.0 -> 85.0				*								
NMeFOSA	9.228	0			D3-NMeFOSA - ISTD	9.193	5907	-	ng/ml	✔	1	ALB 5/22/24
512.0 -> 219.0				*								
NMeFOSAA	6.212	86	66.95		D3-NMeFOSAA - ISTD	6.211	150423	0.0067	ng/ml	✔	3	ALB 5/22/24
570.0 -> 418.9			7.78	41.3								
NMeFOSE	9.050	155	17.40		D7-NMeFOSE - ISTD	9.049	91683	0.0392	ng/ml	✔	3	ALB 5/22/24
PFBA	1.712	8536	210.00		13C4-PFBA - ISTD	1.707	496861	0.1861	ng/ml	✔	3	ALB 5/22/24
PFBS	3.758	1107	60.44		13C3-PFBS - ISTD	3.749	62147	0.0357	ng/ml			
298.9 -> 98.8			66.41	37.0								
PFDA	6.140	12421	331.95		13C6-PFDA - ISTD	6.140	102421	0.1472	ng/ml			
513.0 -> 219.0			551.49	16.3								
PFDoA	7.012	5571	353.99		13C2-PFDoA - ISTD	7.011	83878	0.0801	ng/ml			
613.0 -> 319.0			122.33	12.9								
PFDoS	8.120	0			13C8-PFOS - ISTD	6.289	31558	-	ng/ml	✔	1	ALB 5/22/24
698.9 -> 99.0				*								
PFDS	7.279	0			13C8-PFOS - ISTD	6.289	31558	-	ng/ml	✔	1	ALB 5/22/24
599.0 -> 98.8				*								
PFEESA	4.157	0			13C5-PFHxA - ISTD	3.836	176246	-	ng/ml	✔	1	ALB 5/22/24
315.0 -> 83.0				*								
PFHpA	4.550	7537	81.44		13C4-PFHpA - ISTD	4.549	212335	0.0852	ng/ml			
362.9 -> 169.0			186.11	19.9								
PFHpS	5.816	0			13C8-PFOS - ISTD	6.289	31558	-	ng/ml	✔	1	ALB 5/22/24
449.0 -> 98.8				*								
PFHxA	3.838	16587	158.95		13C5-PFHxA - ISTD	3.836	176246	0.2315	ng/ml			
313.0 -> 118.9			71.64	3.6								
PFHxS	5.227	669	44.72		13C3-PFHxS - ISTD	5.226	47292	0.0313	ng/ml	✔	3	ALB 5/22/24

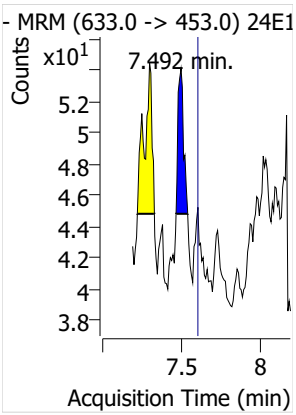
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
398.9 -> 99.0			14.30	66.2								
PFMBA	3.263	0			13C5-PFPeA - ISTD	2.928	327442	-	ng/ml	✔	1	ALB 5/22/24
PFMPA	2.300	0			13C5-PFPeA - ISTD	2.928	327442	-	ng/ml	✔	1	ALB 5/22/24
PFNA	5.665	12194	79.65		13C9-PFNA - ISTD	5.664	112571	0.1347	ng/ml	✔	3	ALB 5/22/24
463.0 -> 219.0			549.33	18.6								
PFNS	6.868	0			13C8-PFOS - ISTD	6.289	31558	-	ng/ml	✔	1	ALB 5/22/24
549.0 -> 98.8				*								
PFOA	5.149	28827	388.20		13C8-PFOA - ISTD	5.148	195144	0.2942	ng/ml	✔	3	ALB 5/22/24
413.0 -> 169.0			893.14	23.1								
PFOS	6.290	7472	247.57		13C8-PFOS - ISTD	6.289	31558	0.4556	ng/ml	✔	3	ALB 5/22/24
499.0 -> 99.0			195.39	44.7								
PFOSA	7.744	466	2795.45		13C8-PFOSA - ISTD	7.743	33987	0.0310	ng/ml	✔	3	ALB 5/22/24
497.9 -> 478.0			10.82	4.2								
PFPeA	2.929	11083	64.69		13C5-PFPeA - ISTD	2.928	327442	0.1676	ng/ml			
263.0 -> 69.0			7.83	0.3								
PFPeS	4.674	0			13C3-PFHxS - ISTD	5.226	47292	-	ng/ml	✔	1	ALB 5/22/24
349.0 -> 98.9				*								
PFTeDA	7.820	1111	144.22		13C2-PFTeDA - ISTD	7.819	35009	0.0394	ng/ml	✔	3	ALB 5/22/24
713.0 -> 168.9			125.36	**40.3								
PFTrDA	7.423	2148	163.32		13C2-PFDoA - ISTD	7.011	83878	0.0363	ng/ml			
663.0 -> 168.9			155.05	11.2								
PFUnA	6.587	6061	232.03		13C7-PFUnA - ISTD	6.586	88434	0.0853	ng/ml			
563.0 -> 269.1			42.69	16.4								
TDCA	6.290	5783	118.74					-	ng/ml			
499.0 -> 99.0			174.82	**55.6								
13C2-8:2FTS	5.934	38218	3933.92		18O2-PFHxS	5.233	52202	11.1380	ng/ml			
529.0 -> 509.0			16493.83	275.9								
13C2-4:2FTS	3.597	53410	3763.77		18O2-PFHxS	5.233	52202	8.5496	ng/ml			
329.0 -> 309.0			5763.37	250.3								
13C2-6:2FTS	4.933	49914	3119.00		18O2-PFHxS	5.233	52202	11.8241	ng/ml			
429.0 -> 409.0			16694.49	327.6								
13C5-PFHxA	3.836	176246	26428.58		13C2-PFHxA	3.837	195592	2.1867	ng/ml			
318.0 -> 120.0			1372.59	1.9								
13C6-PFDA	6.140	102421	9907.15		13C2-PFDA	6.140	114796	1.1308	ng/ml			

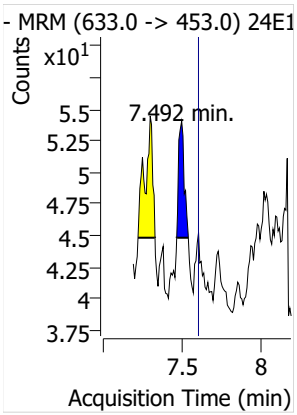
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
13C7-PFUnA	6.586	88434	8360.62		13C2-PFDA	6.140	114796	1.2060	ng/ml			
13C8-PFOA	5.148	195144	26604.68		13C4-PFOA	5.148	32590	2.1841	ng/ml			
13C8-PFOS	6.289	31558	1729.06		13C4-PFOS	6.290	38295	2.2923	ng/ml			
507.0 -> 99.0			1257.53	50.5								
13C8-PFOSA	7.743	33987	22574.34		13C4-PFOS	6.290	38295	1.4036	ng/ml			
13C9-PFNA	5.664	112571	5841.56		13C5-PFNA	5.664	150705	1.0953	ng/ml			
13C5-PFPeA	2.928	327442	14656.44		13C2-PFHxA	3.837	195592	4.5331	ng/ml			
13C2-PFDoA	7.011	83878	21424.59		13C2-PFDA	6.140	114796	1.1083	ng/ml			
13C4-PFHpA	4.549	212335	19819.11		13C2-PFHxA	3.837	195592	2.3552	ng/ml			
13C4-PFBA	1.707	496861	140101.24		13C3-PFBA	1.710	268285	8.5300	ng/ml			
13C3-PFHxS	5.226	47292	6819.92		18O2-PFHxS	5.233	52202	2.2184	ng/ml			
402.0 -> 99.0			338.98	51.3								
13C3-PFBS	3.749	62147	5352.49		18O2-PFHxS	5.233	52202	2.2027	ng/ml			
301.9 -> 98.9			5594.42	35.5								
13C3-HFPODA	4.103	190753	27779.39		13C2-PFHxA	3.837	195592	8.4611	ng/ml			
287.0 -> 185.0			8981.82	44.1								
13C2-PFTeDA	7.819	35009	4650.99		13C2-PFDA	6.140	114796	0.5372	ng/ml			
D9-NEtFOSE	9.394	85800	12949.81		13C4-PFOS	6.290	38295	8.5210	ng/ml			
D3-NMeFOSA	9.193	5907	1035.89		13C4-PFOS	6.290	38295	0.7606	ng/ml			
D3-NMeFOSAA	6.211	150423	17216.77		13C4-PFOS	6.290	38295	6.0636	ng/ml			
D5-NEtFOSA	9.546	4904	1061.43		13C4-PFOS	6.290	38295	0.6054	ng/ml			
D5-NEtFOSAA	6.414	80027	8946.06		13C4-PFOS	6.290	38295	6.3751	ng/ml			
D7-NMeFOSE	9.049	91683	14095.73		13C4-PFOS	6.290	38295	9.7430	ng/ml			

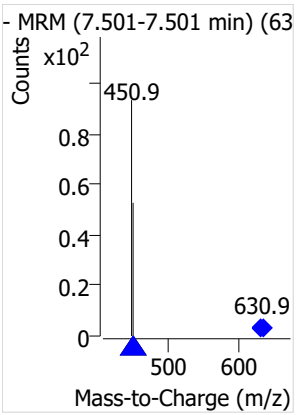
11Cl-PF3OUdS



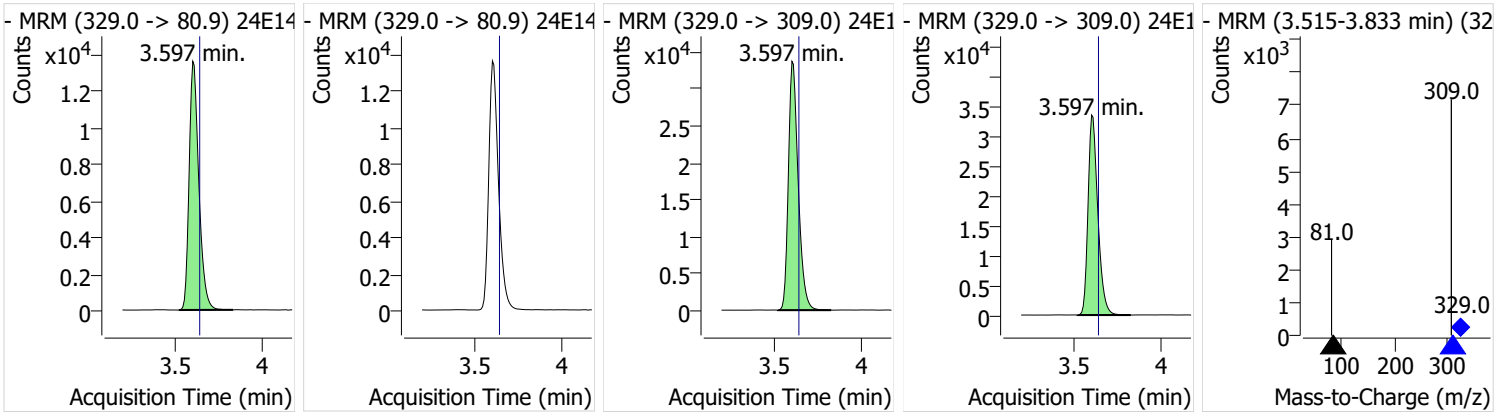




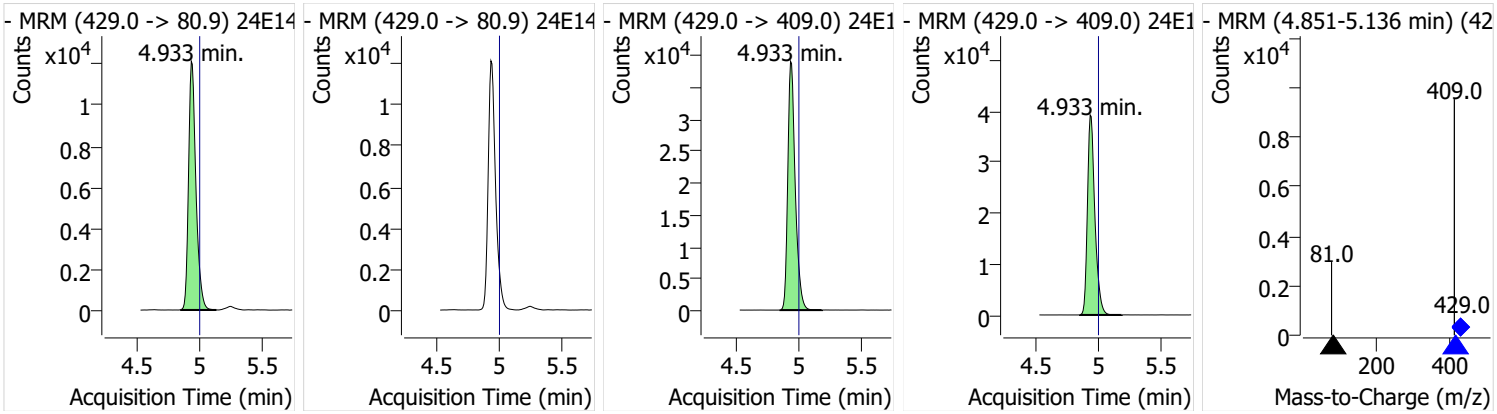




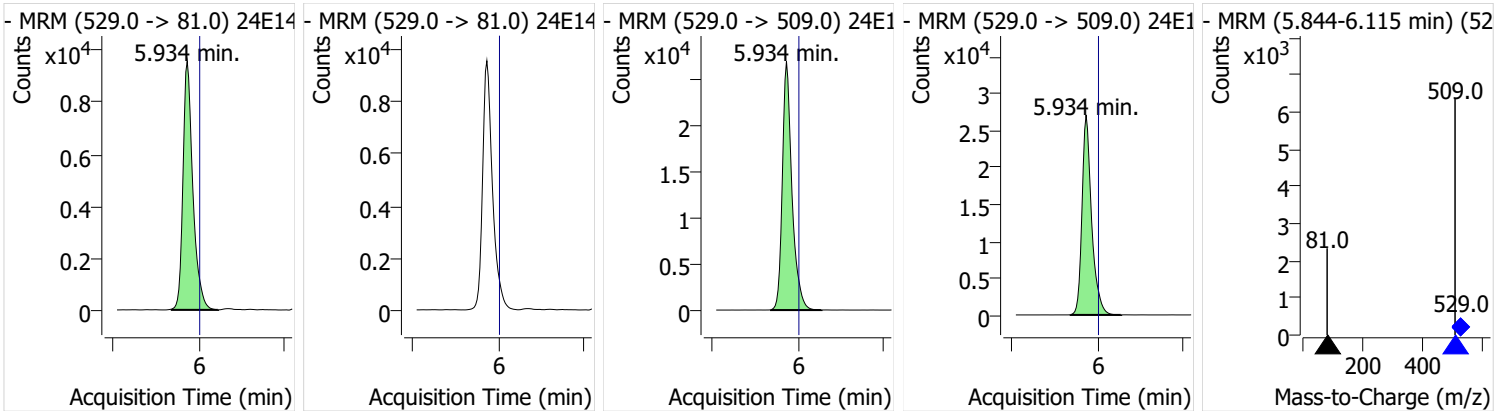
13C2-4:2FTS - ISTD



13C2-6:2FTS - ISTD



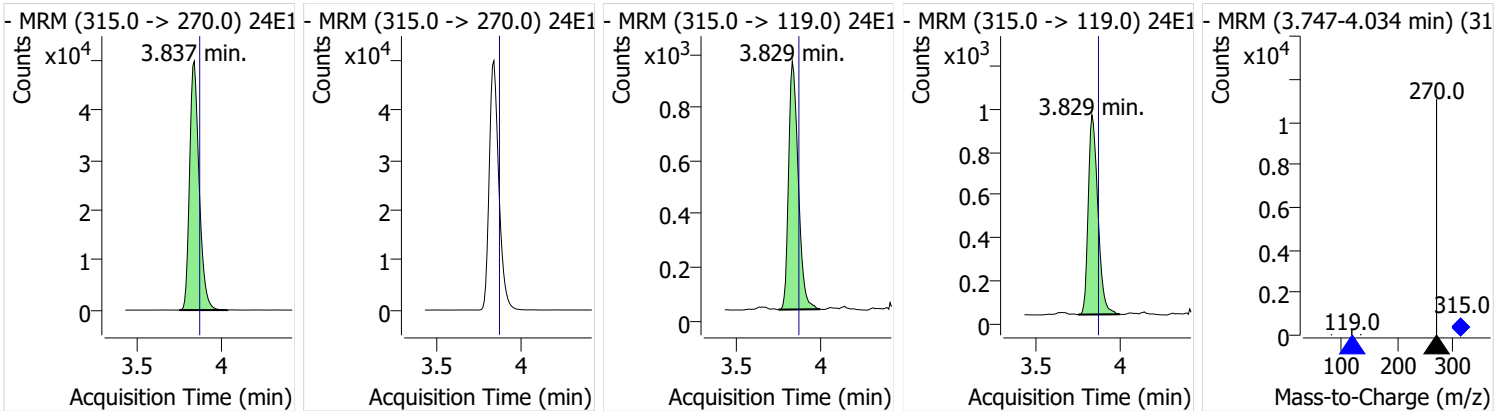
13C2-8:2FTS - ISTD



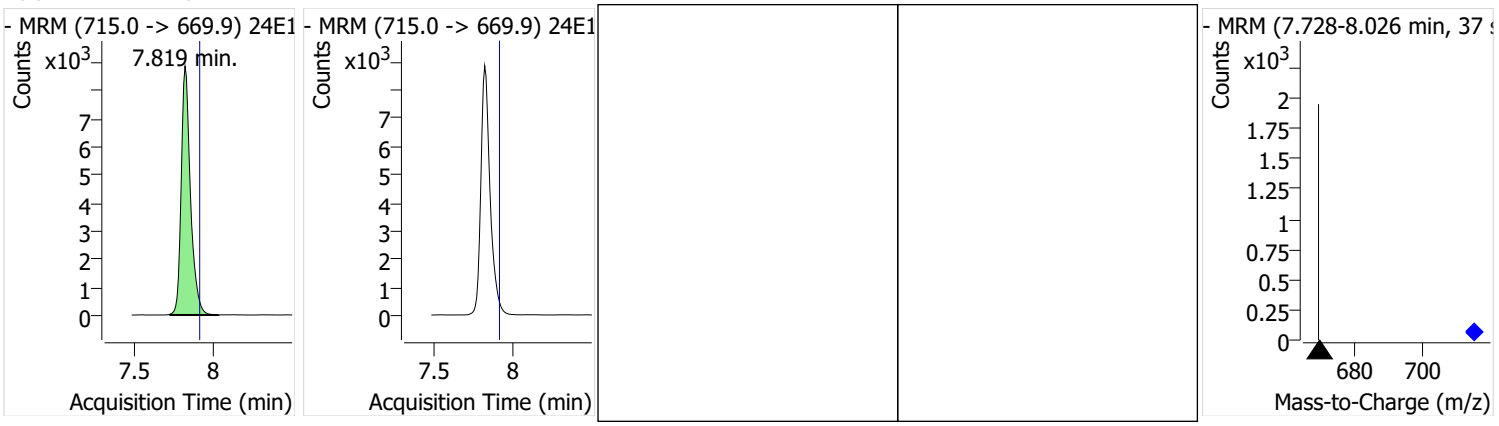
13C2-PFDA

13C2-PFDoA - ISTD

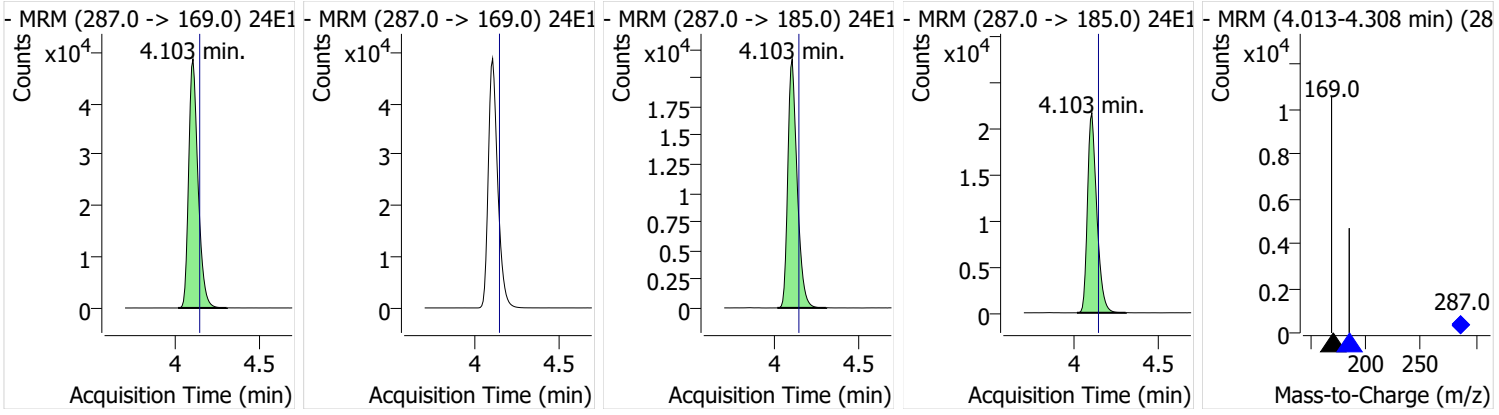
13C2-PFHxA



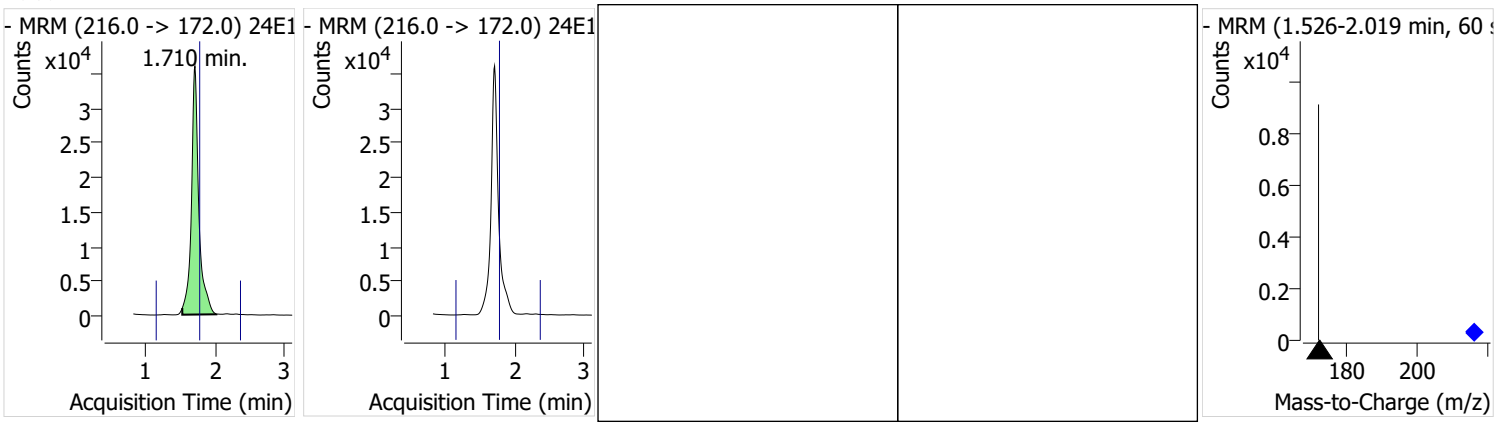
13C2-PFTeDA - ISTD



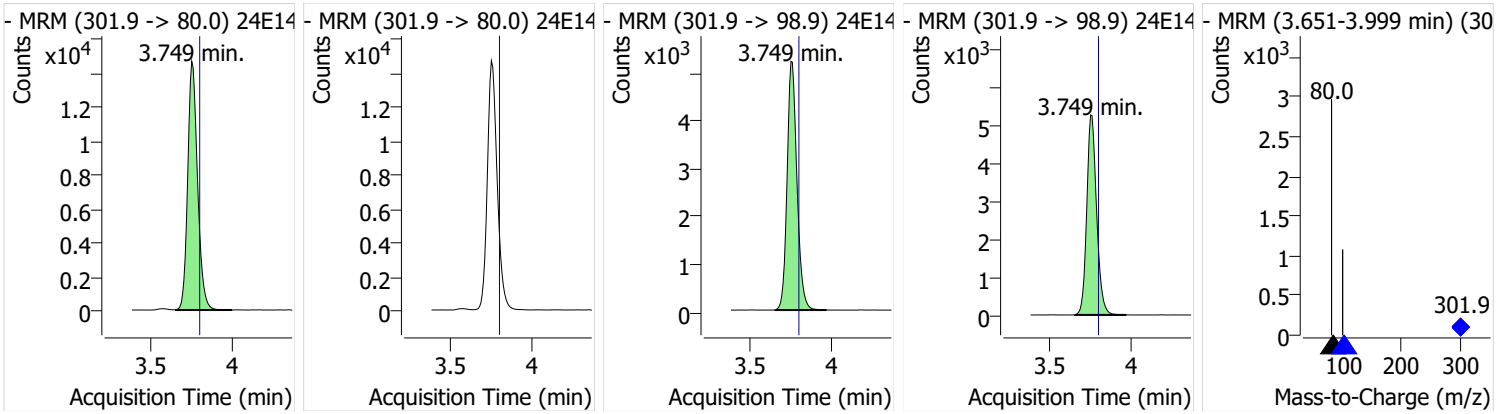
13C3-HFPODA - ISTD



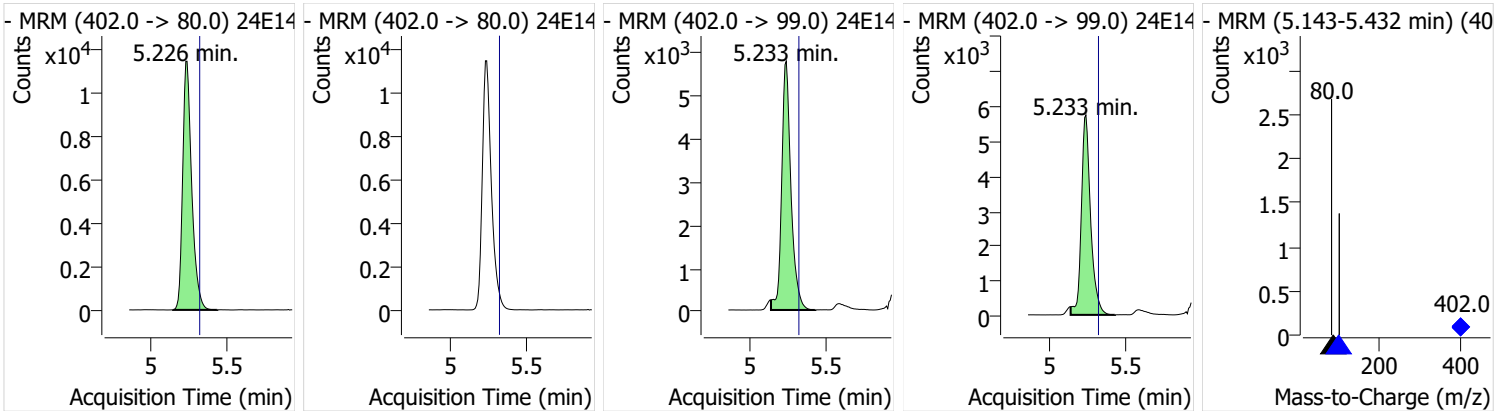
13C3-PFBA



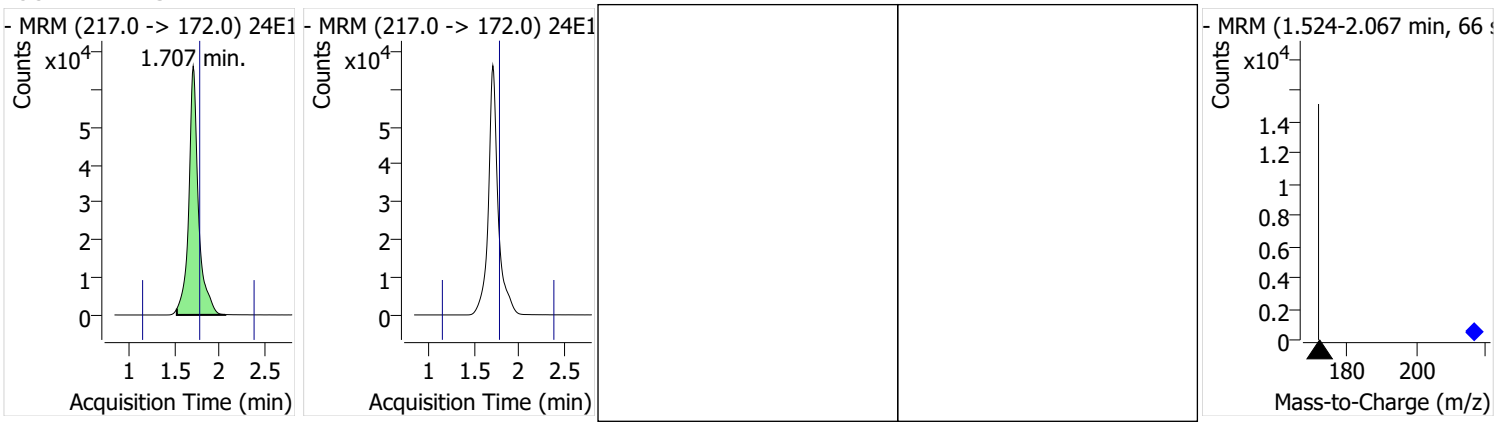
13C3-PFBS - ISTD



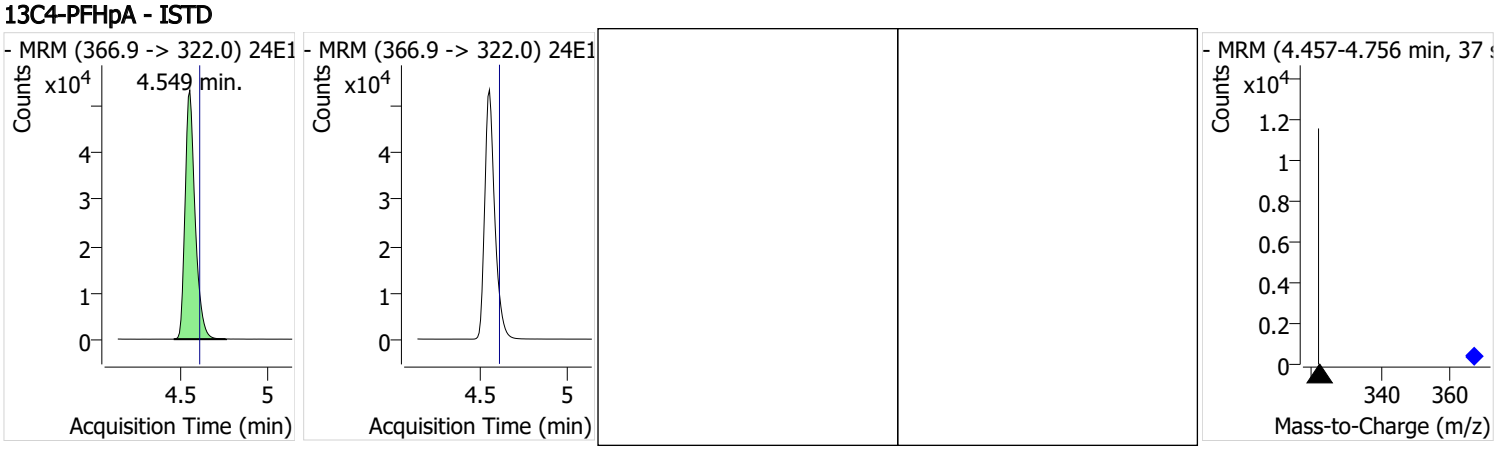
13C3-PFHxS - ISTD



13C4-PFBA - ISTD

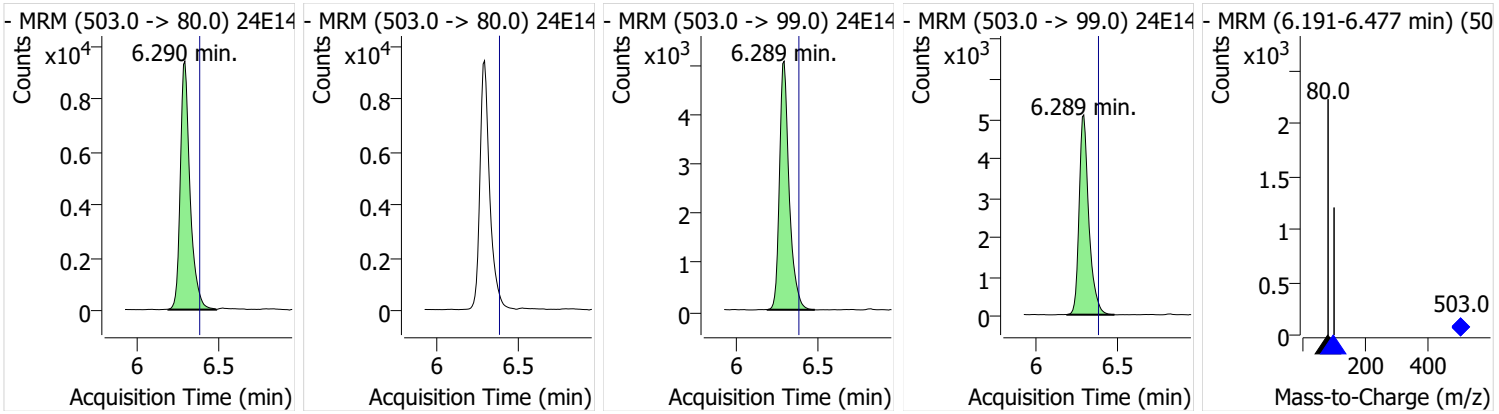


13C4-PFHpA - ISTD

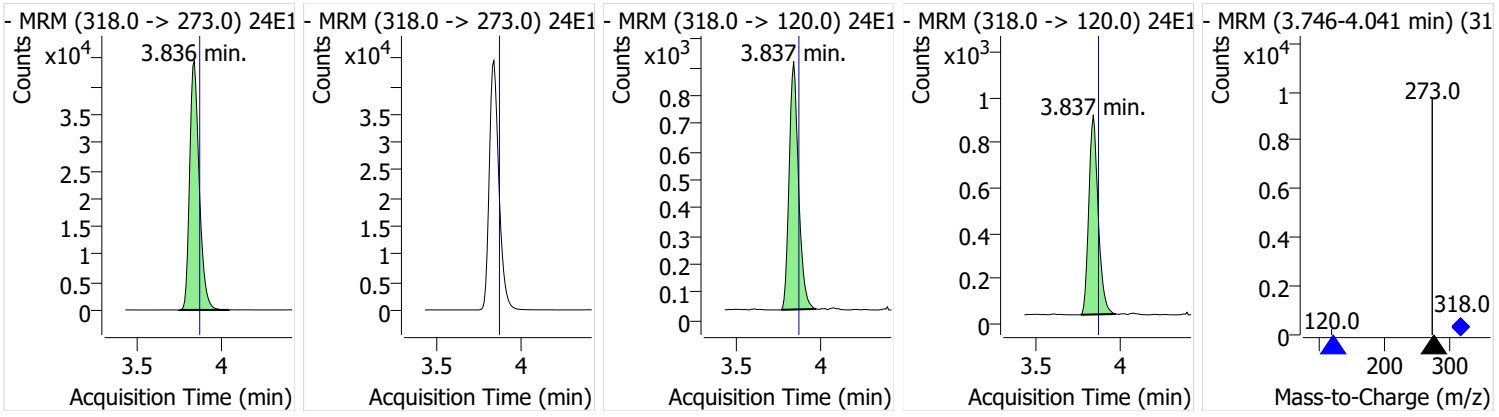


13C4-PFOA

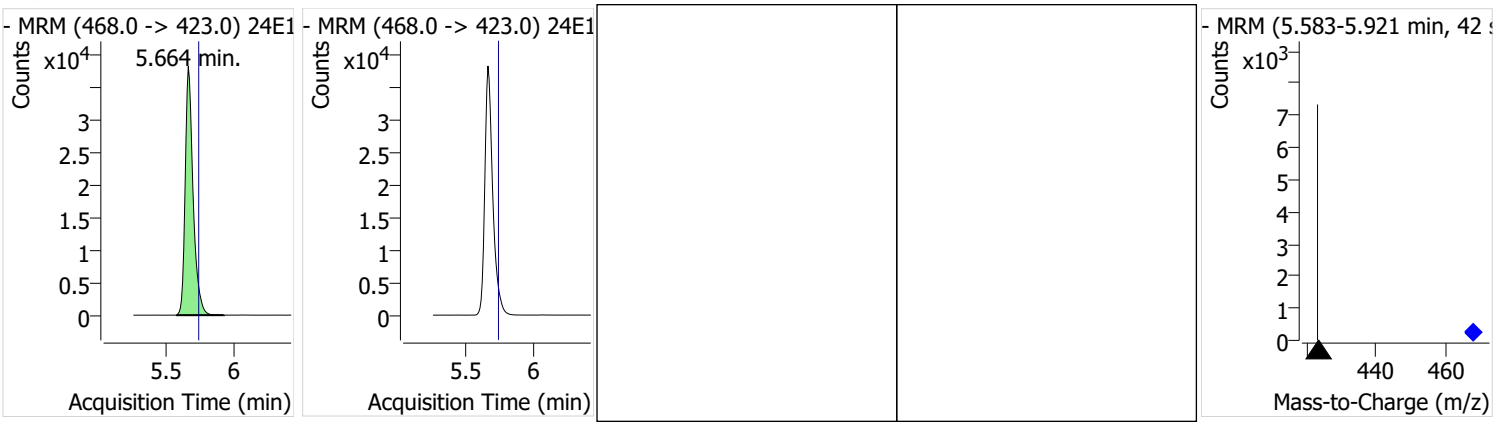
13C4-PFOS



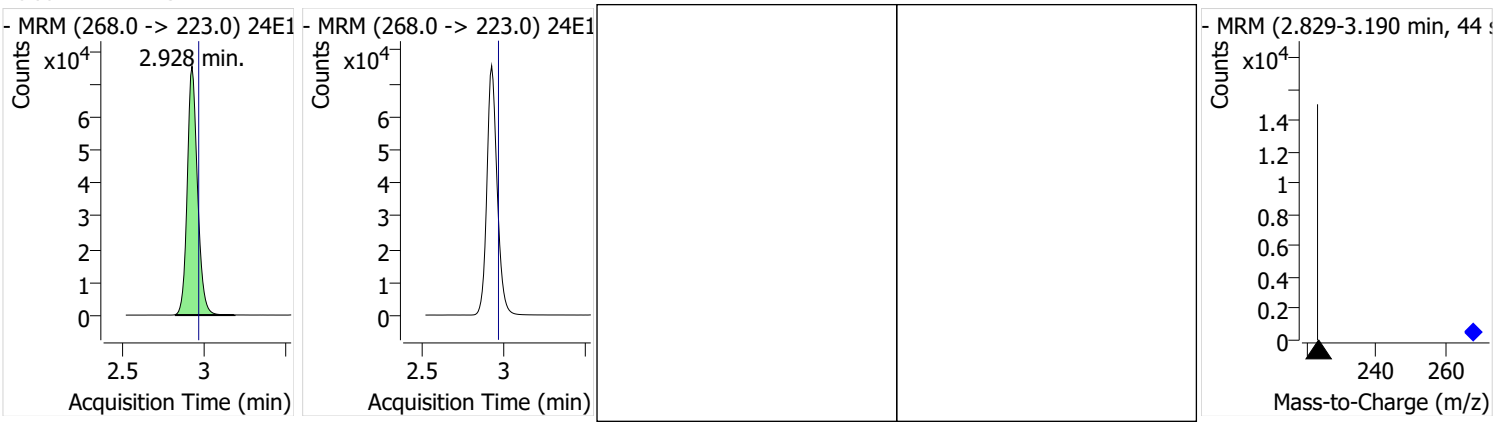
13C5-PFHxA - ISTD



13C5-PFNA

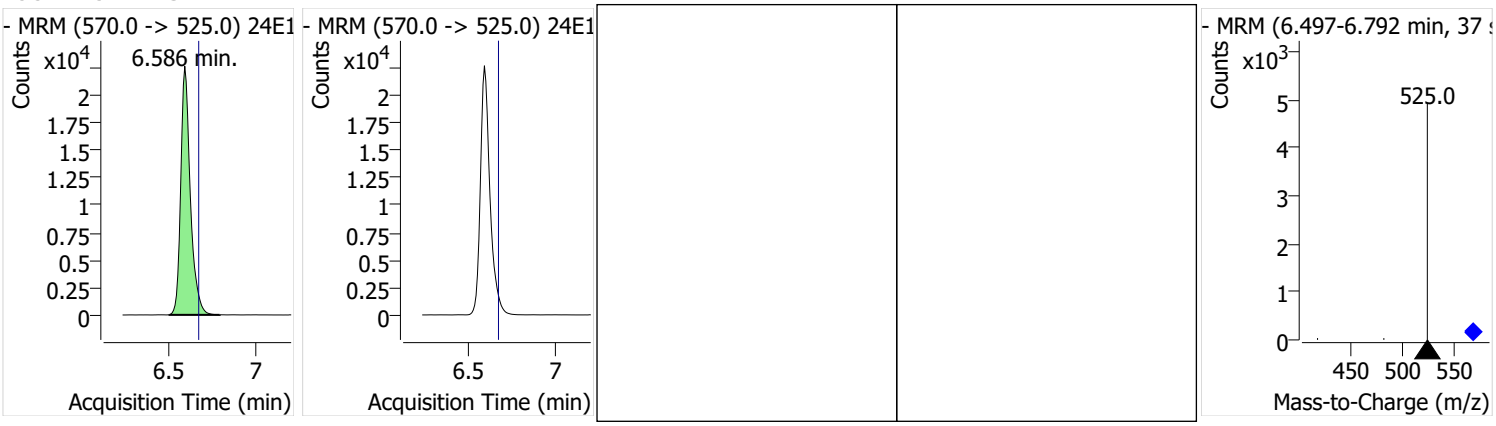


13C5-PFPeA - ISTD



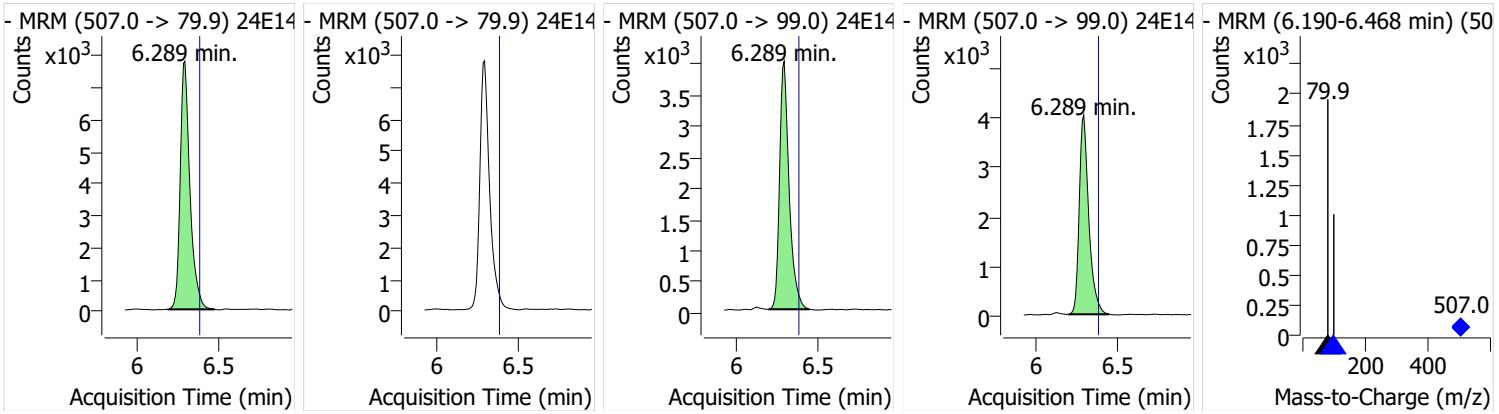
13C6-PFDA - ISTD

13C7-PFUnA - ISTD

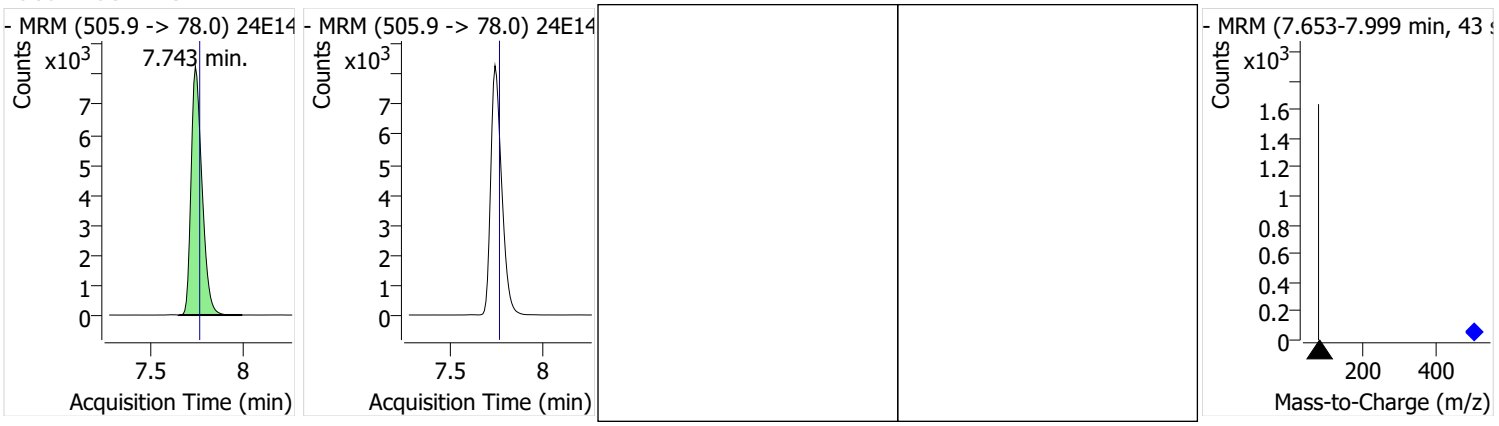


13C8-PFOA - ISTD

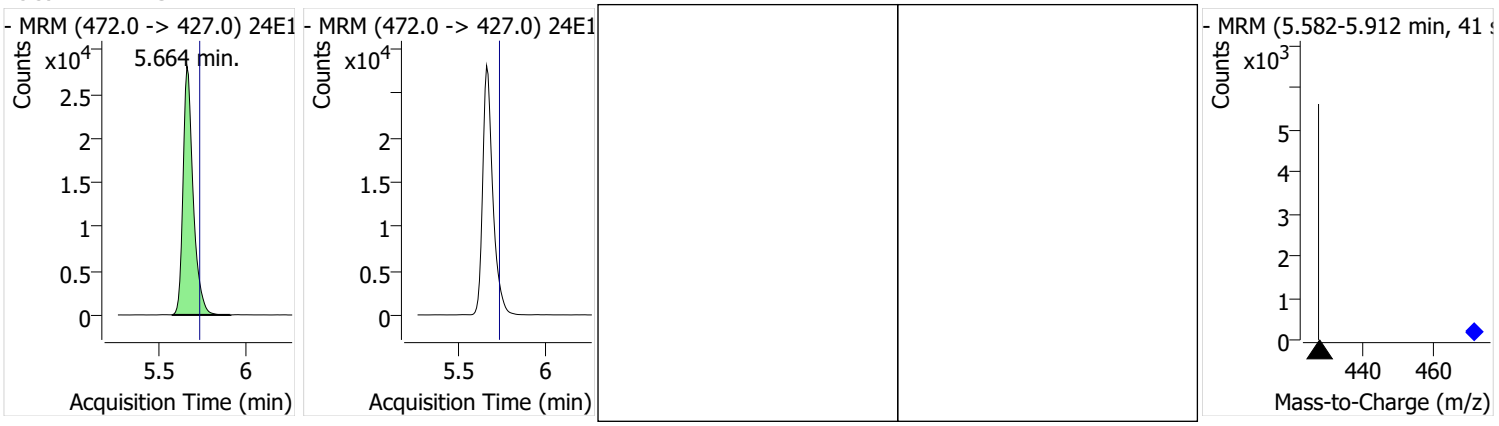
13C8-PFOS - ISTD



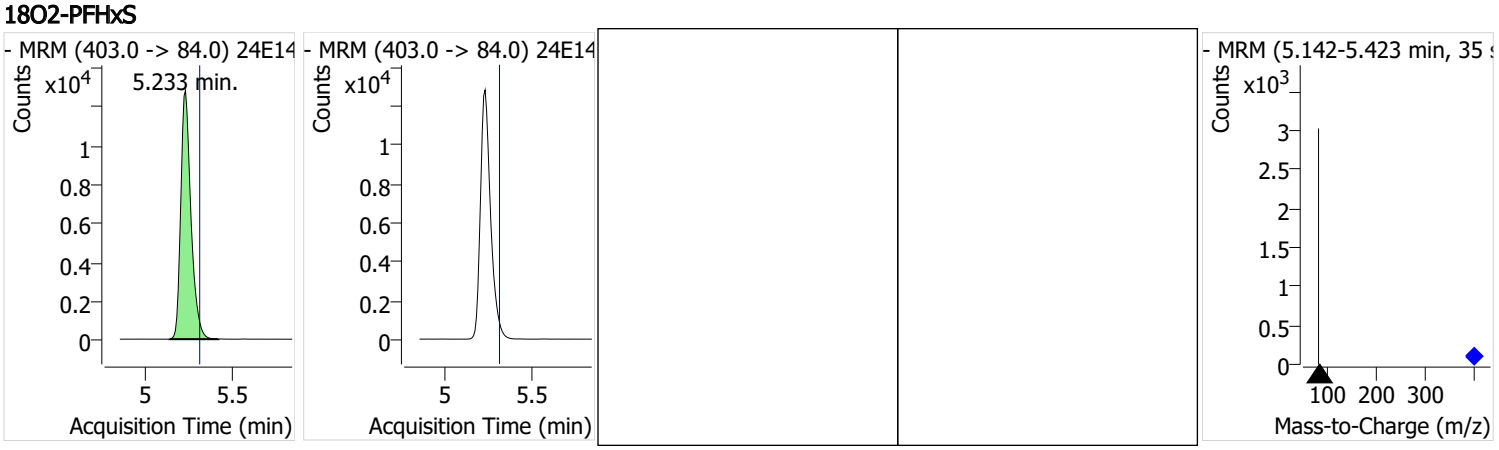
13C8-PFOSA - ISTD



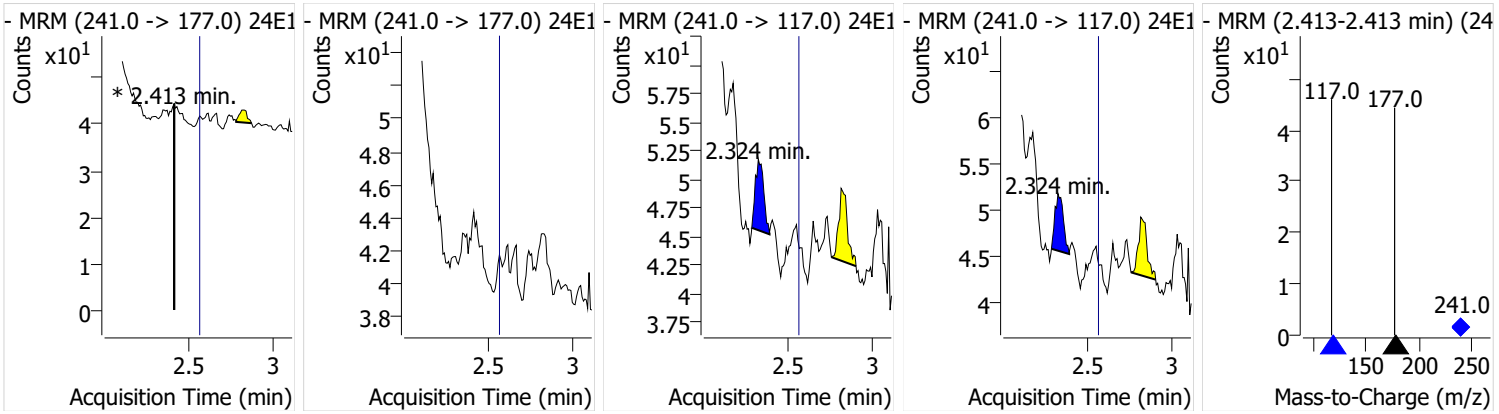
13C9-PFNA - ISTD



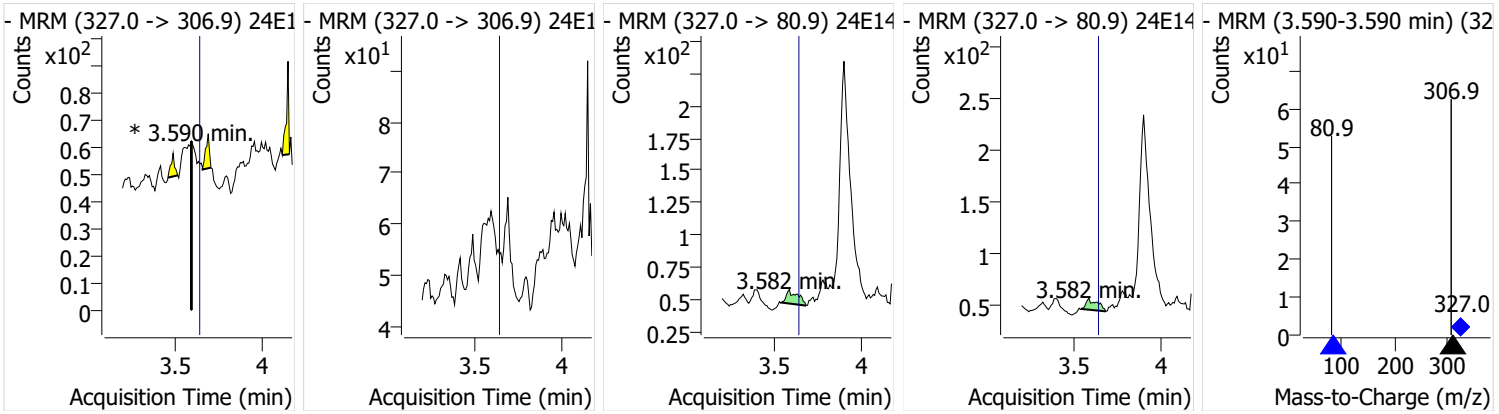
18O2-PFHxS



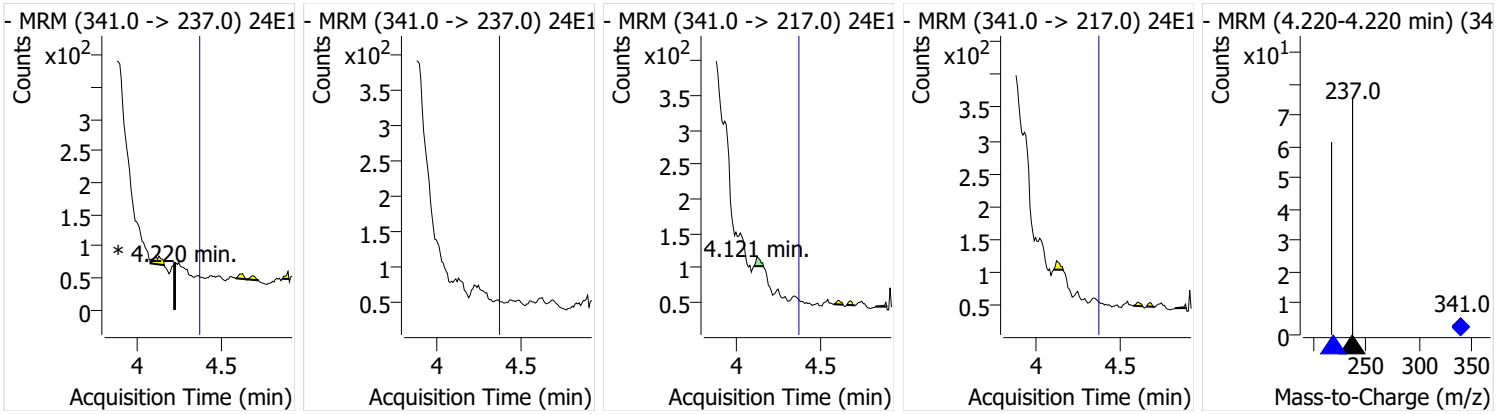
3:3FTCA



4:2FTS



5:3FTCA



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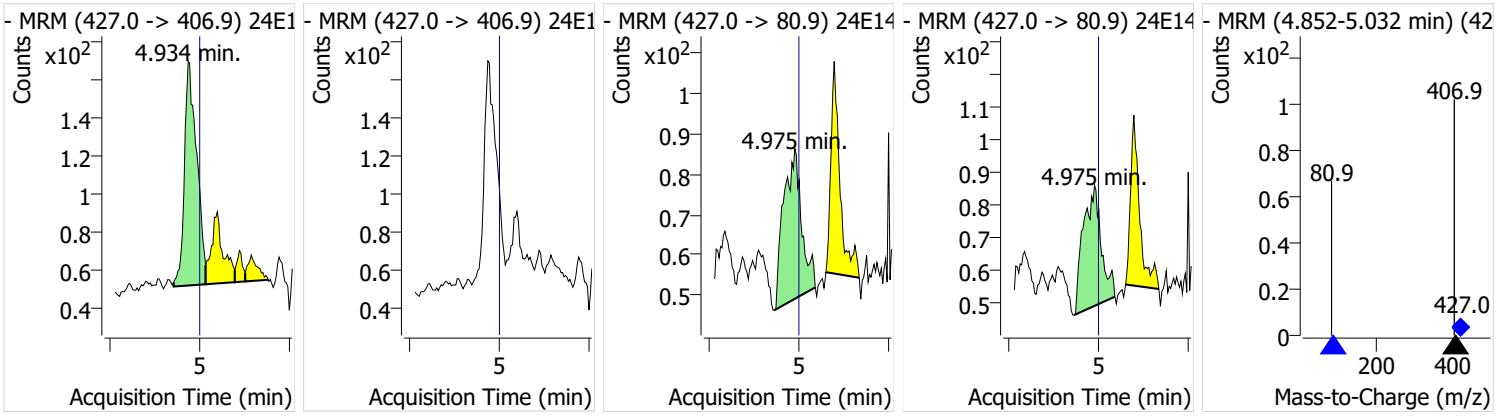

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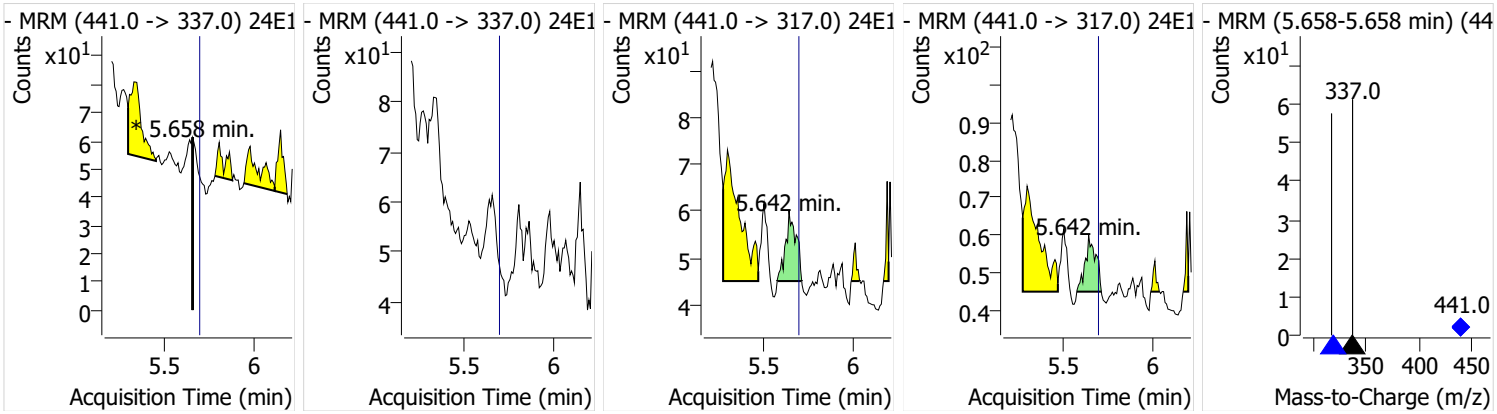

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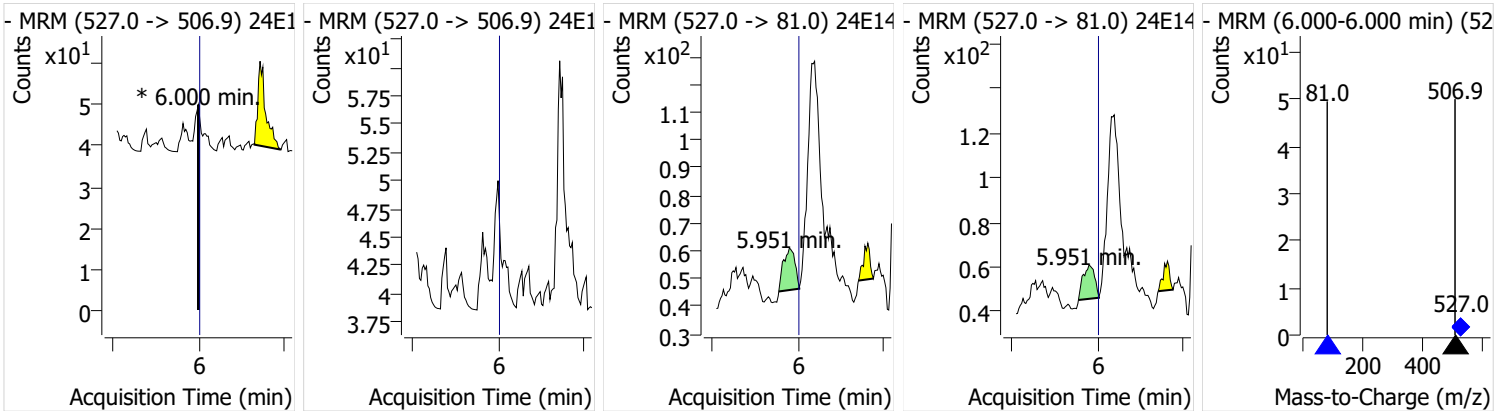
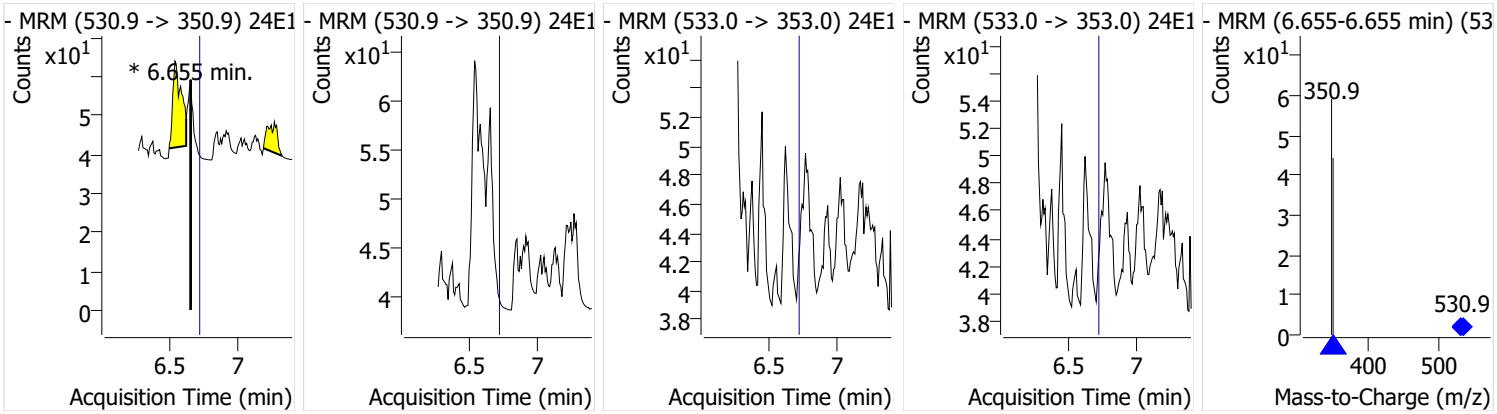


9Cl-PF3ONS



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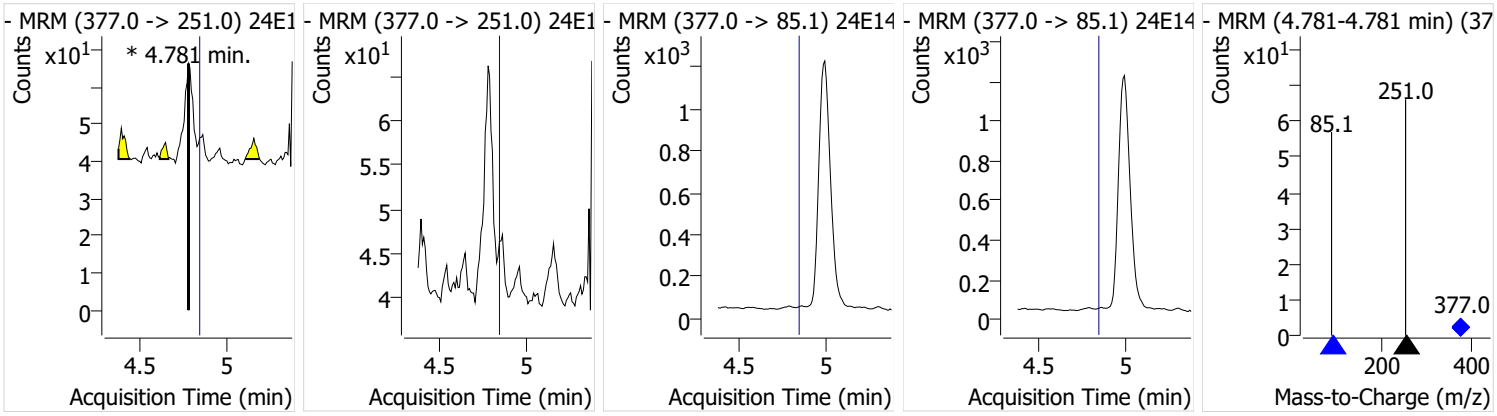
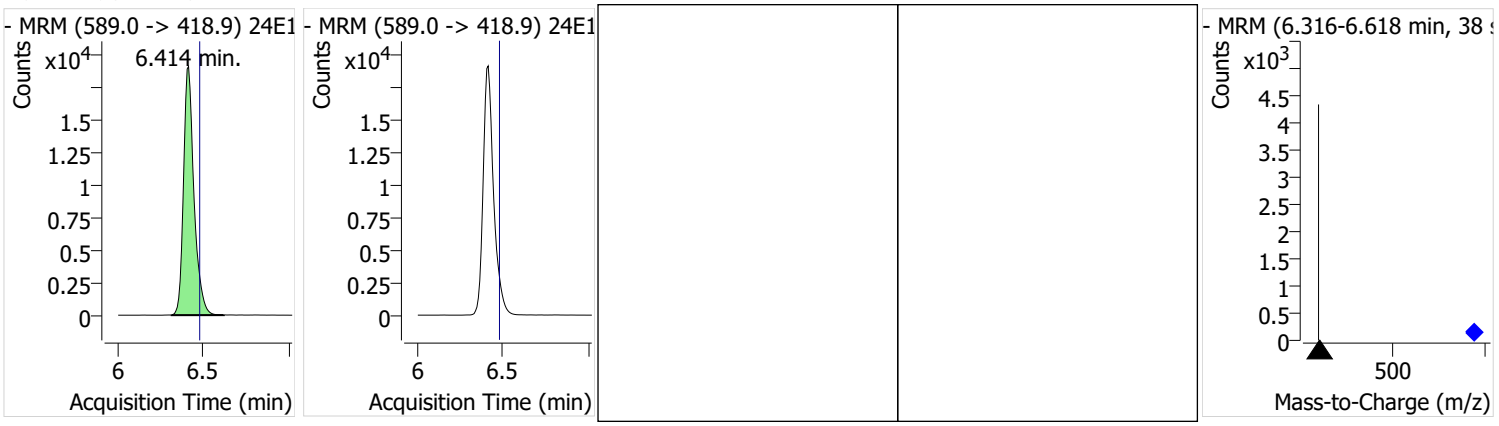


D3-NMeFOSA - ISTD

D3-NMeFOSAA - ISTD

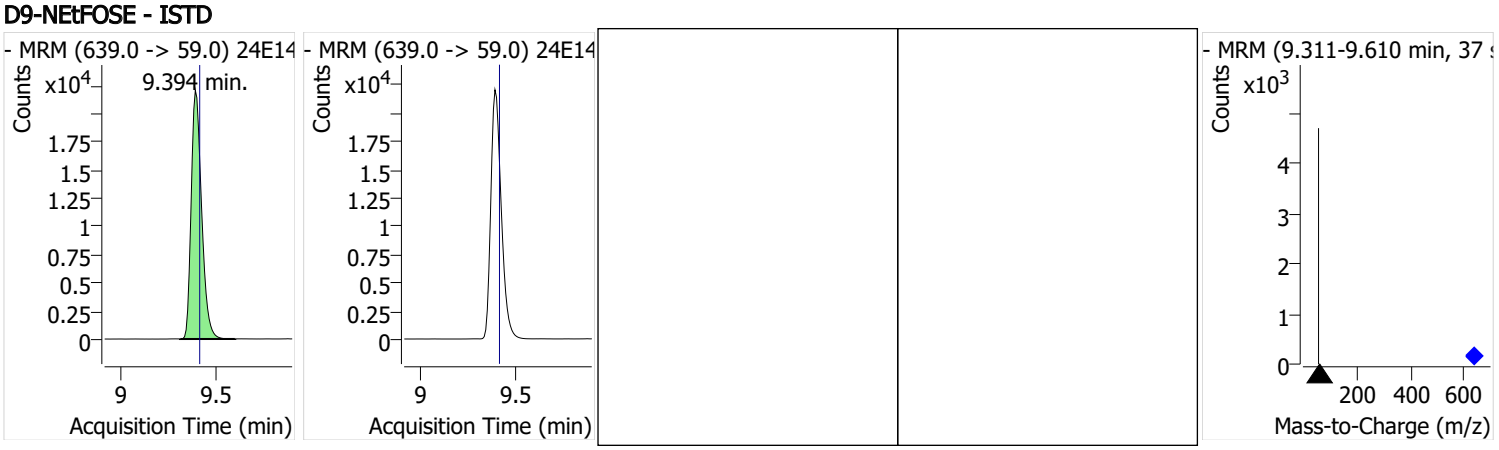
D5-NEtFOSA - ISTD

D5-NEtFOSAA - ISTD

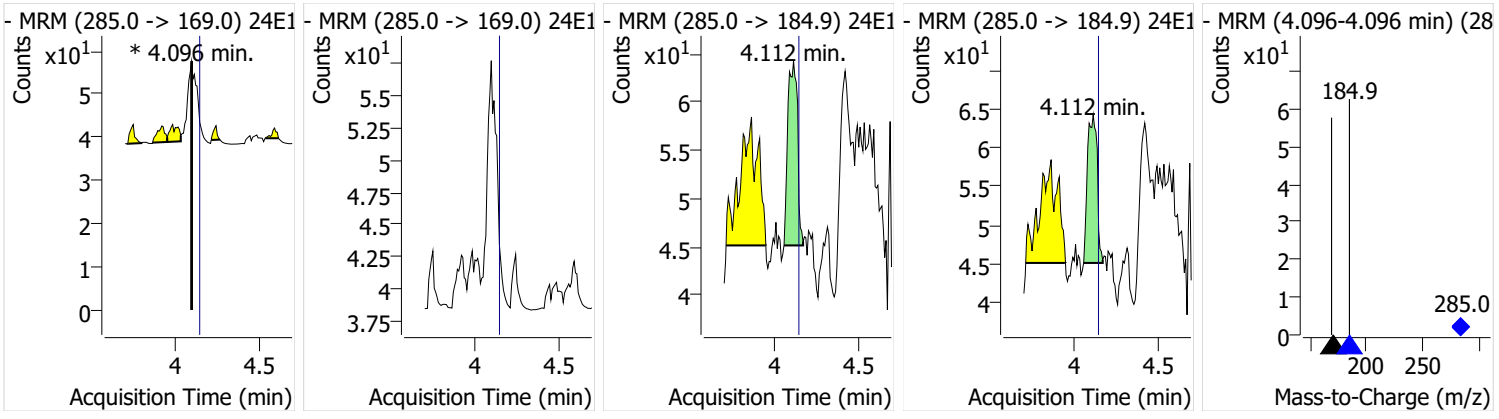


D7-NMeFOSE - ISTD

D9-NEtFOSE - ISTD



HFPO-DA



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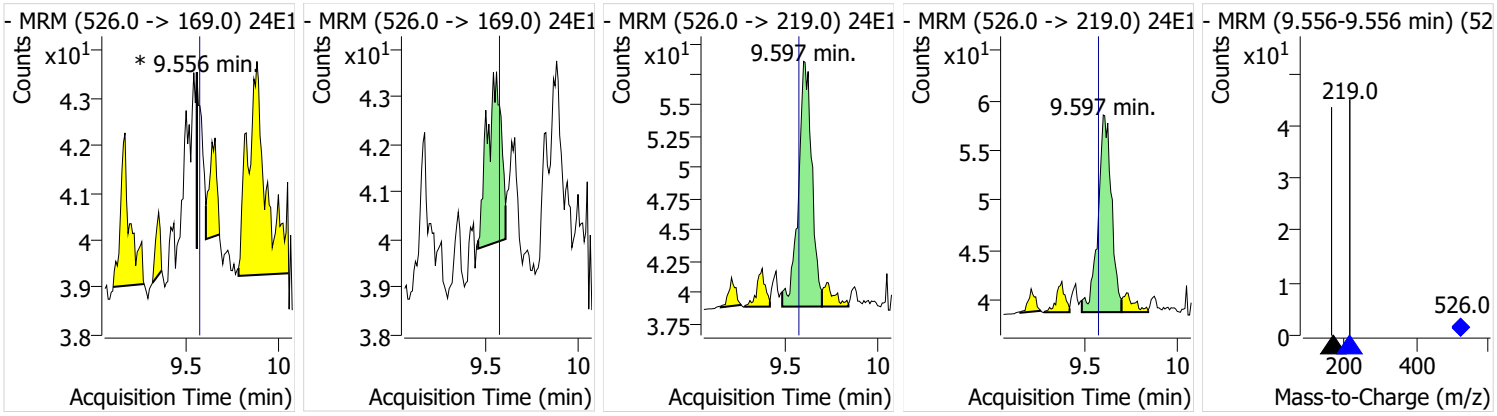

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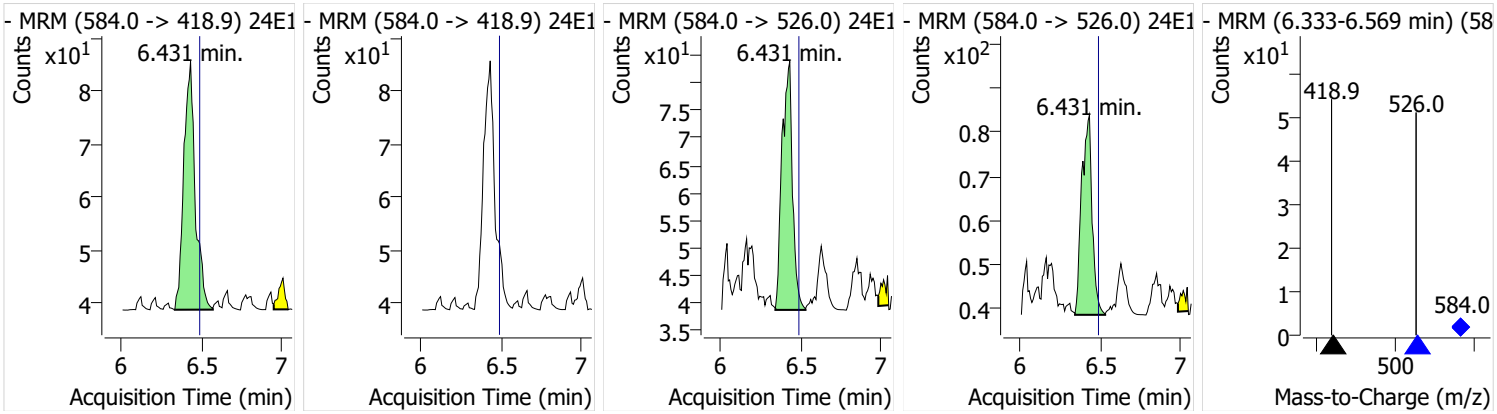

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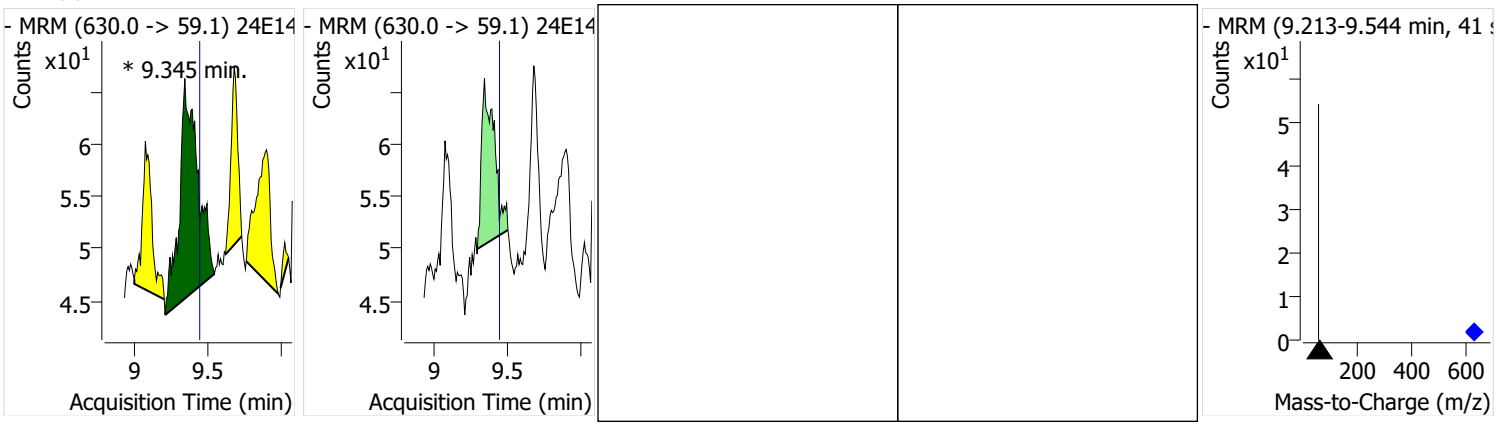

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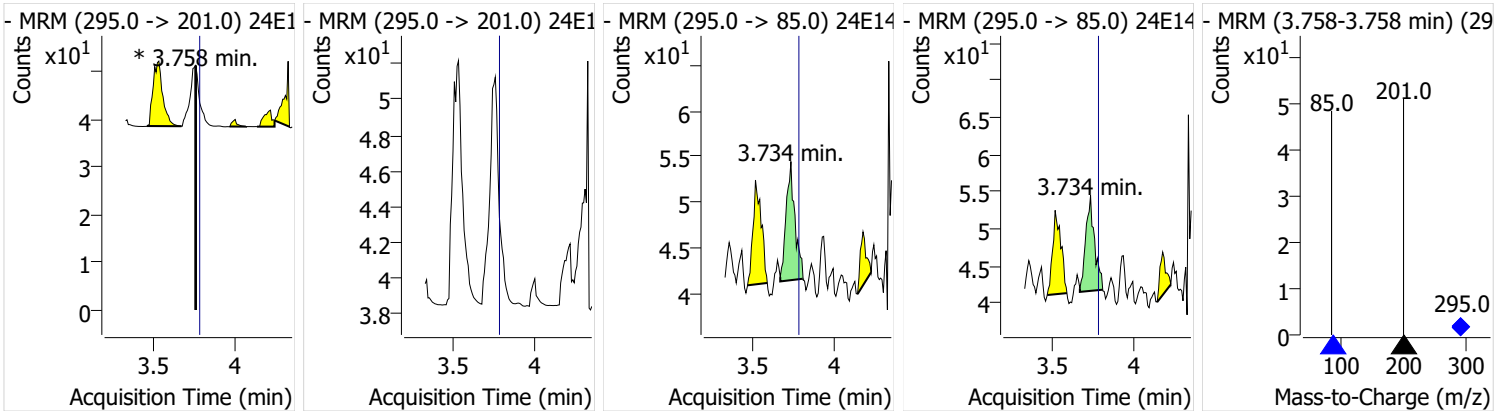

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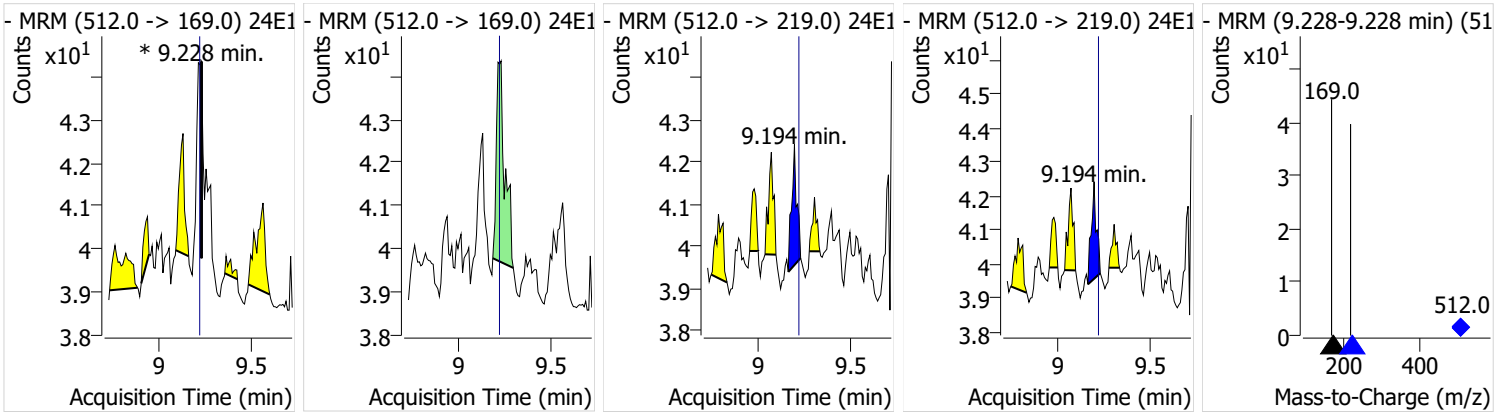

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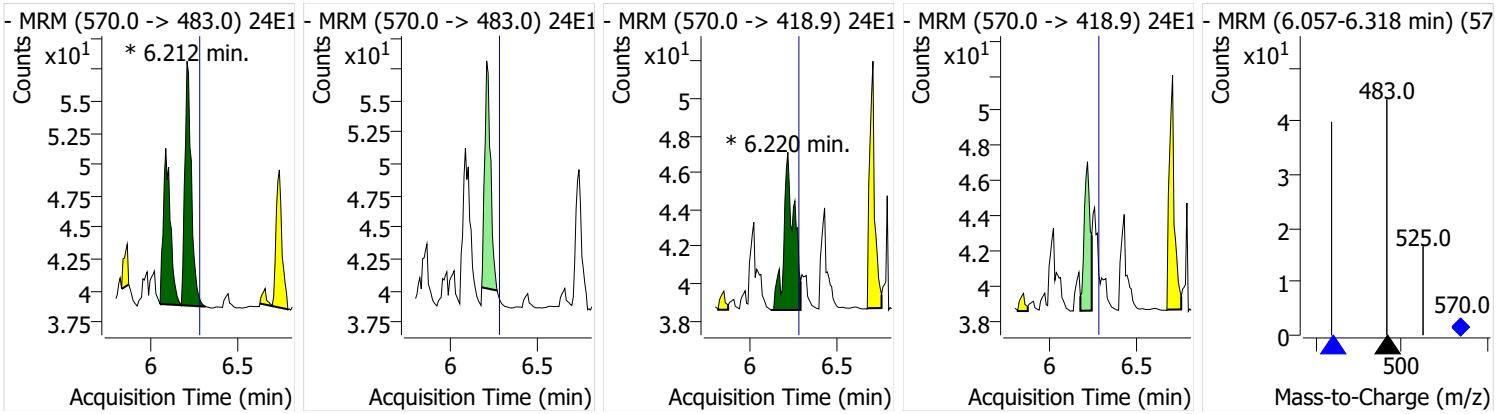

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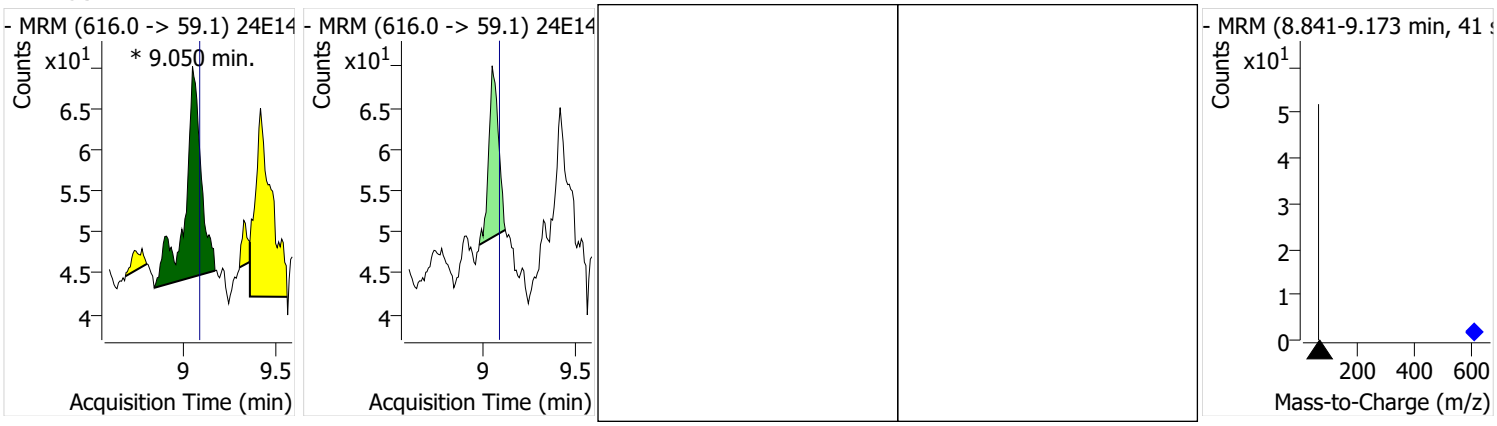

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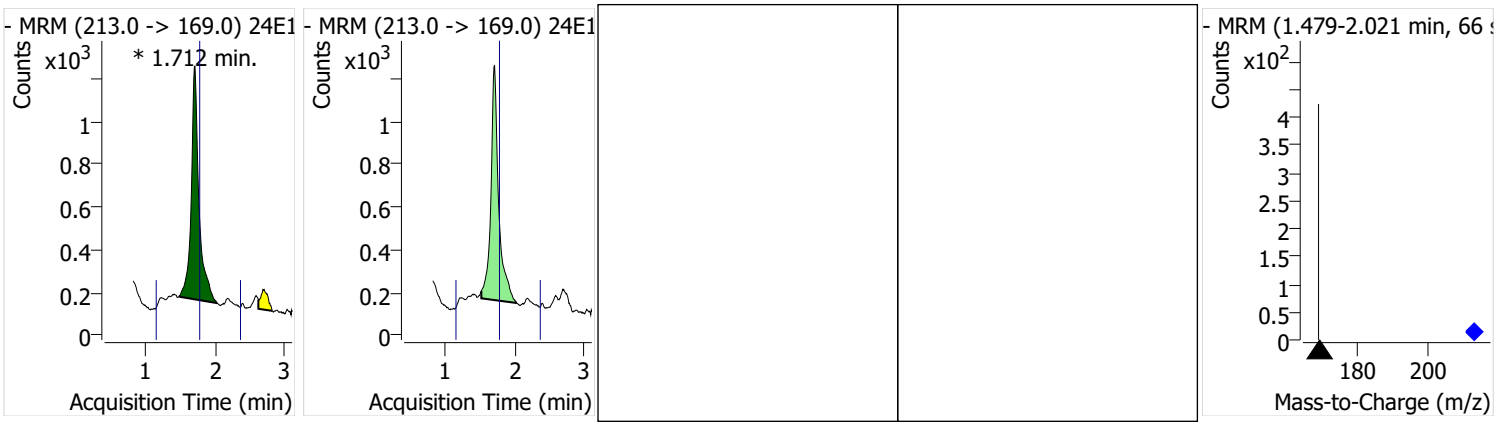

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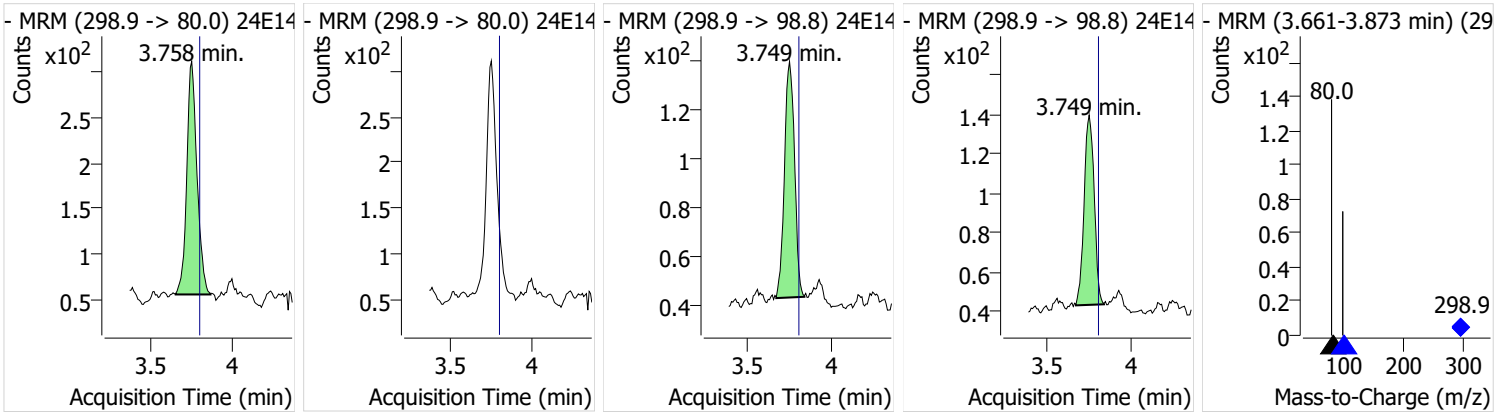

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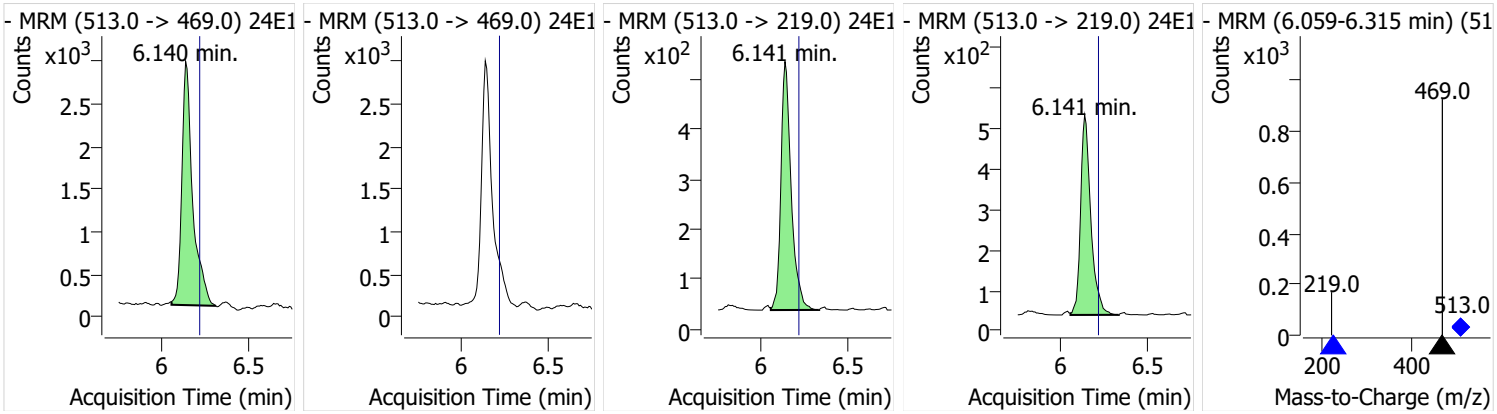

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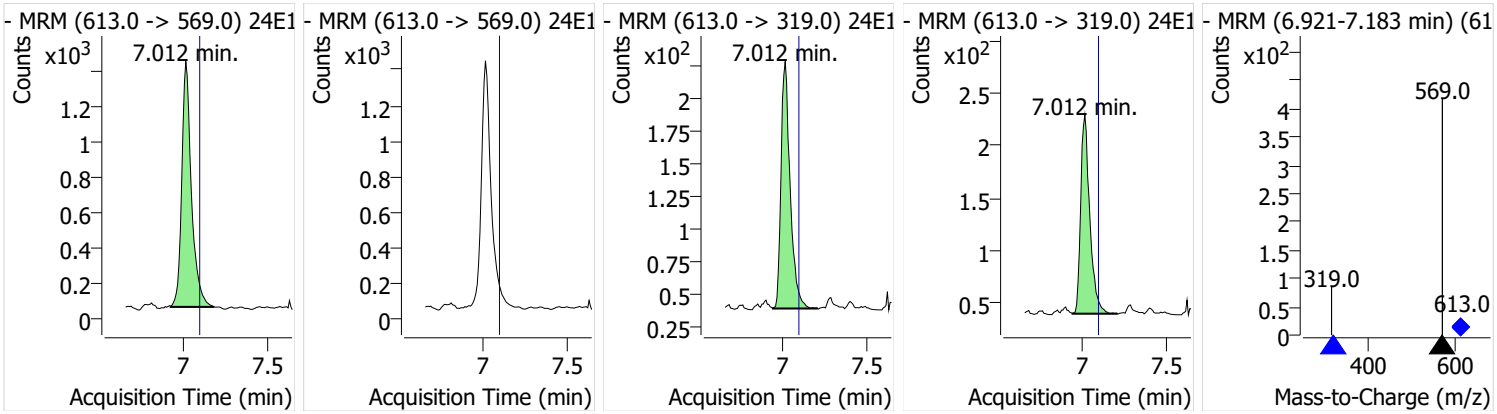

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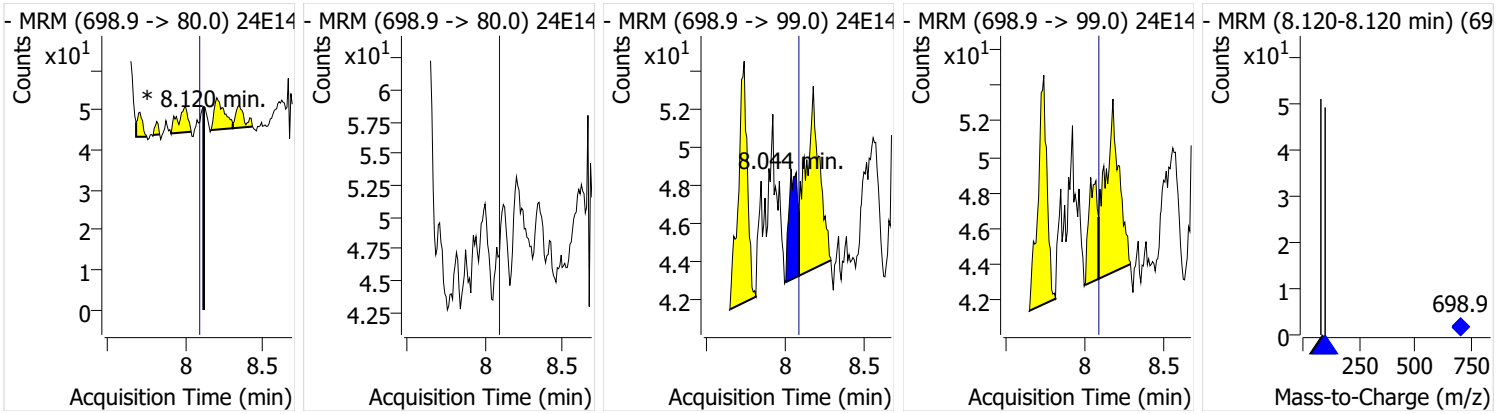

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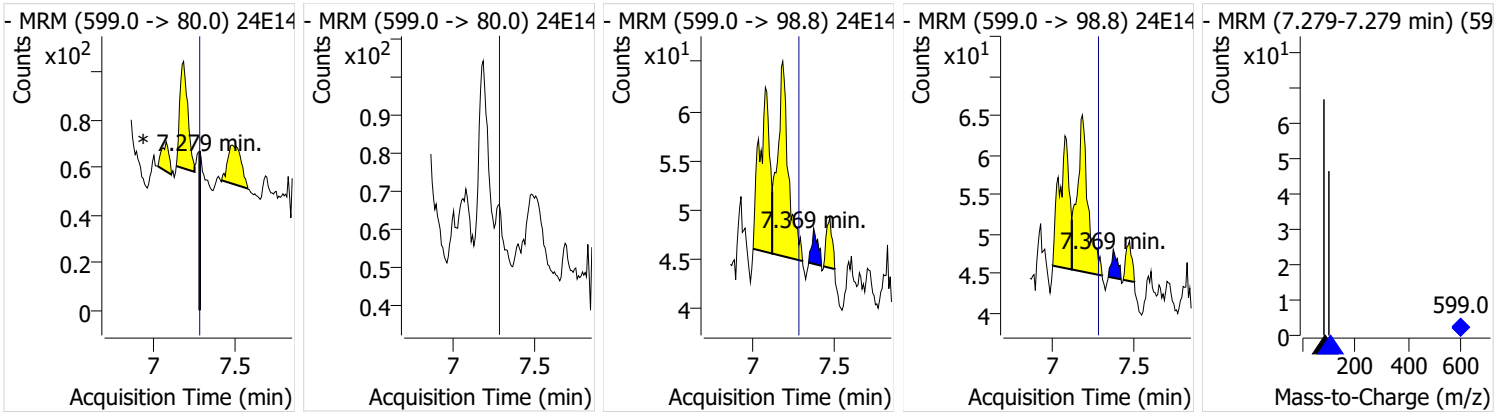

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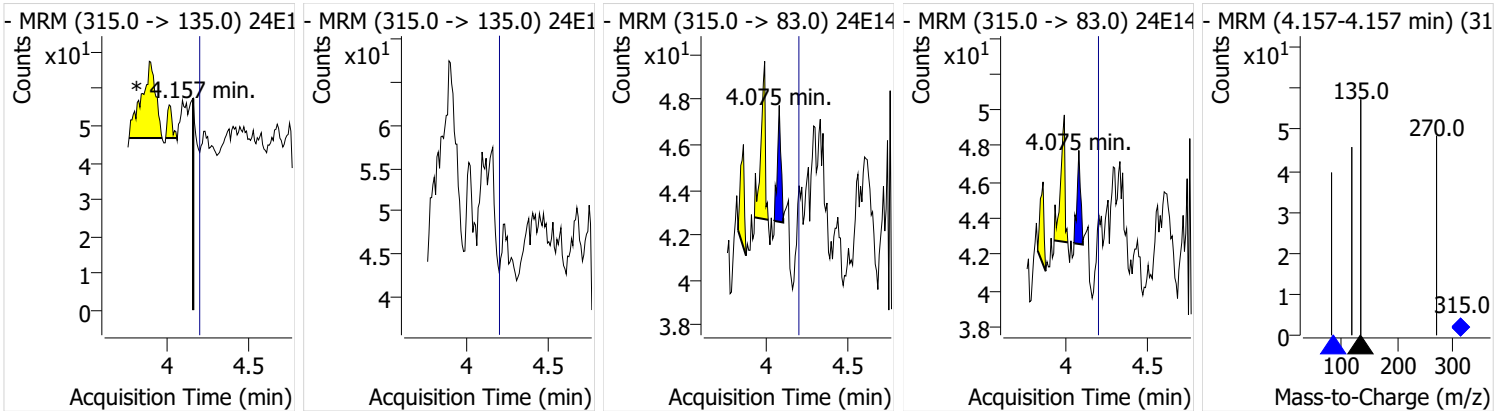

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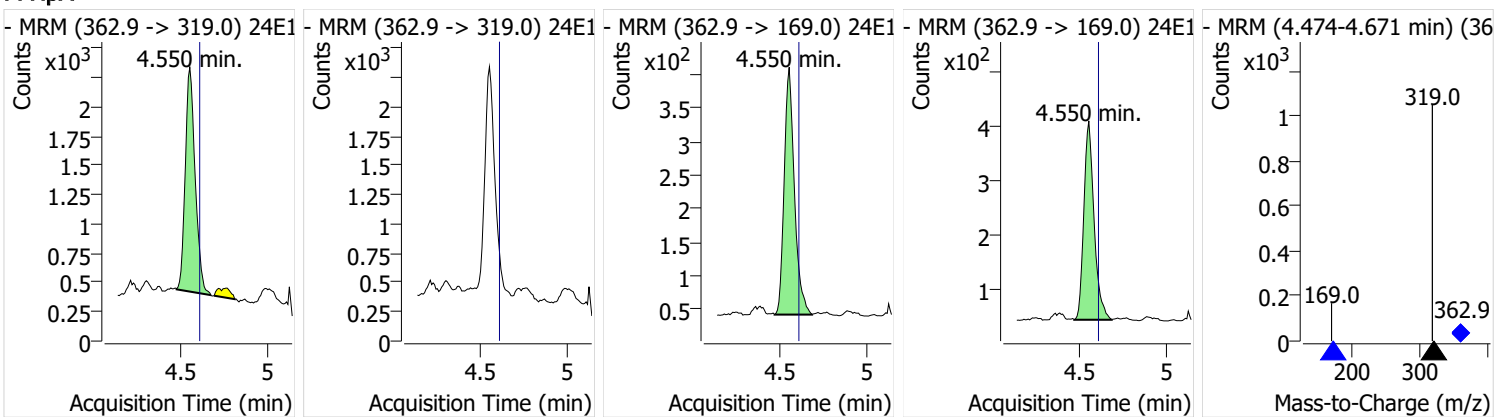

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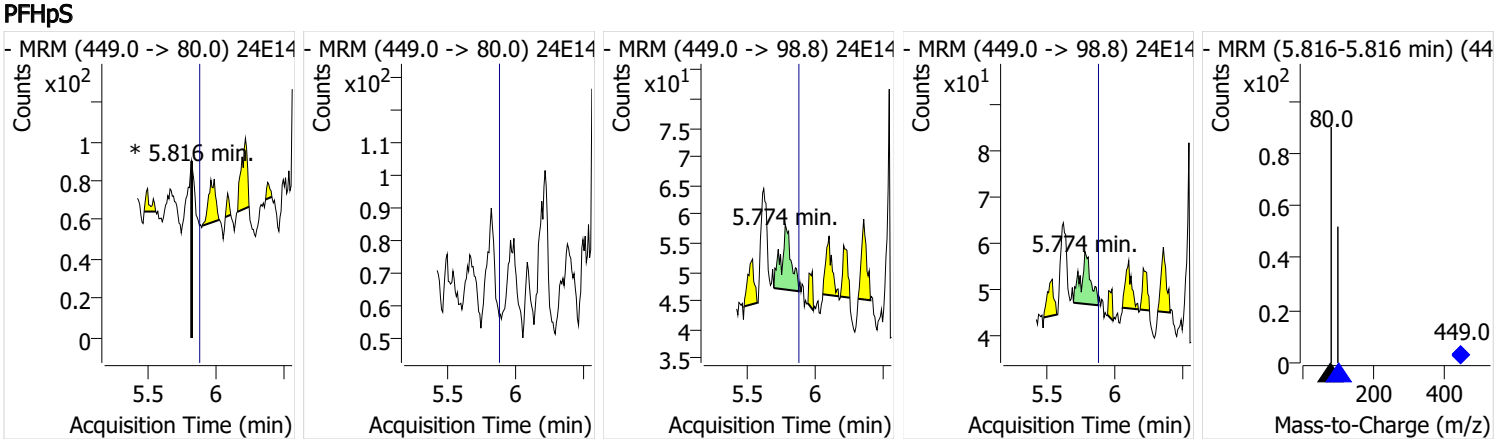

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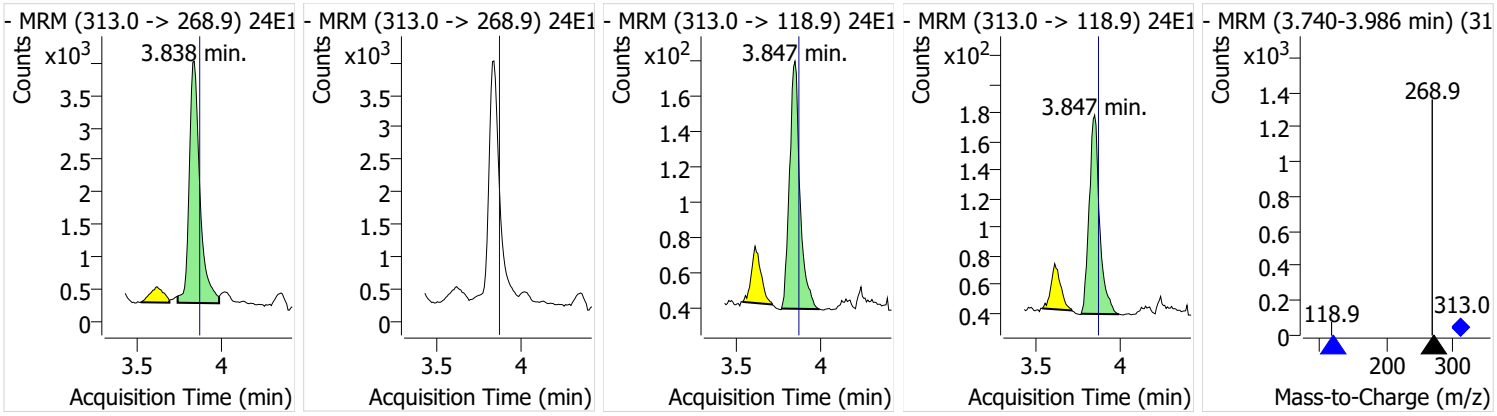

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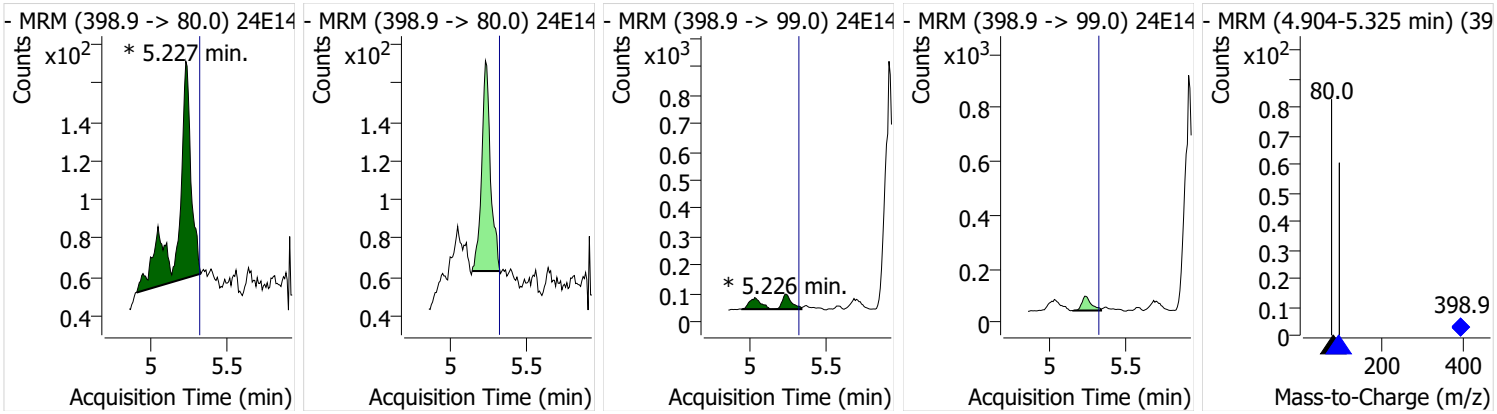

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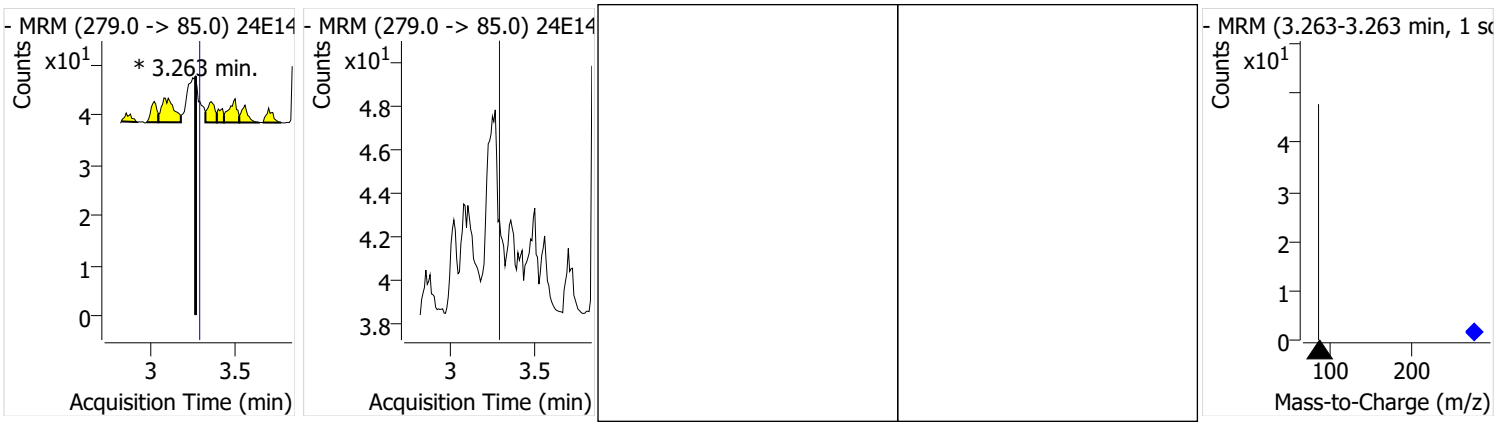

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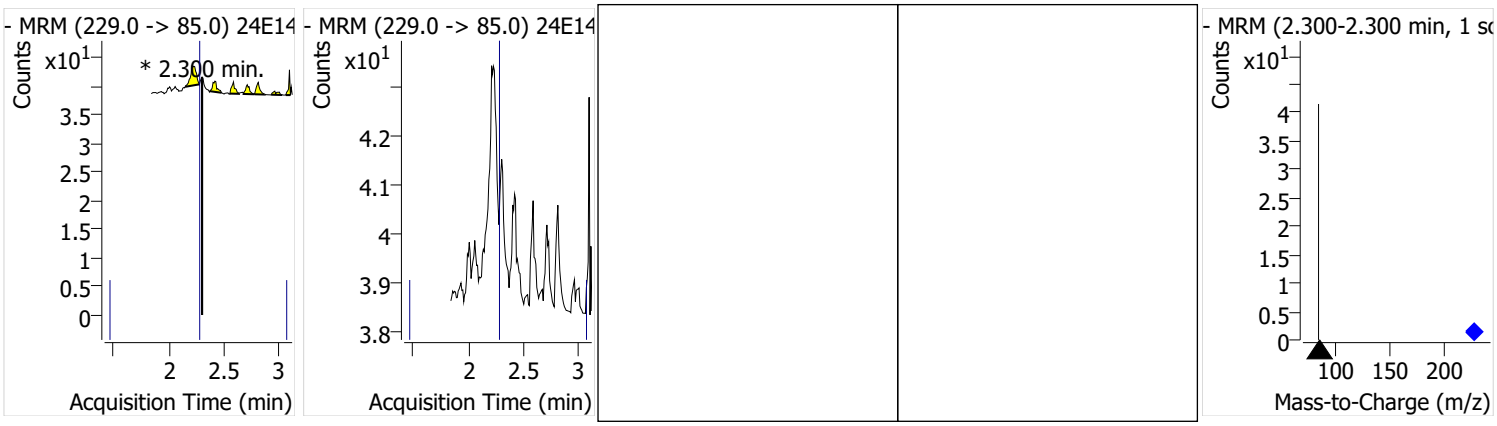

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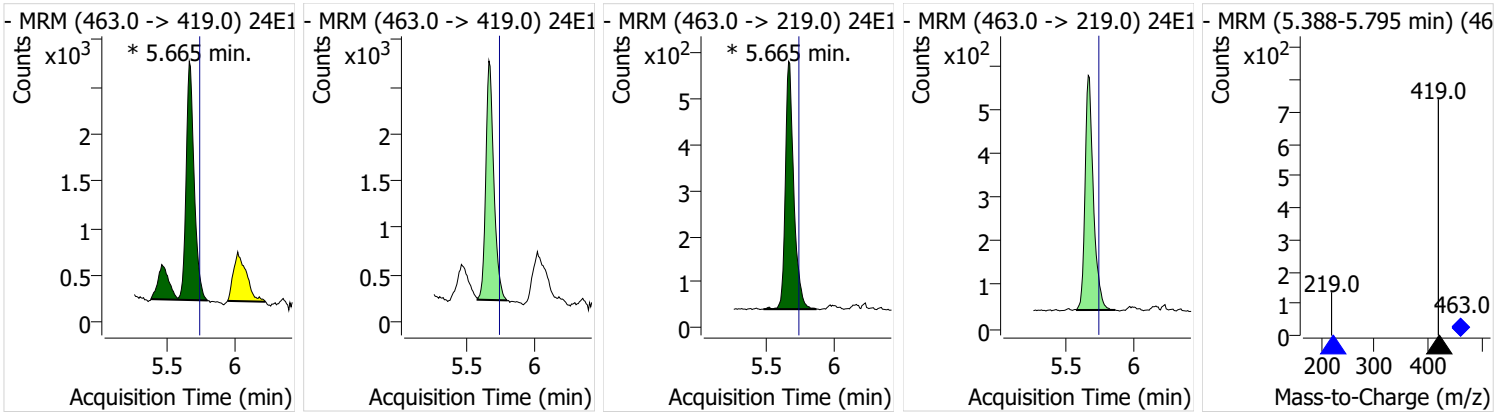

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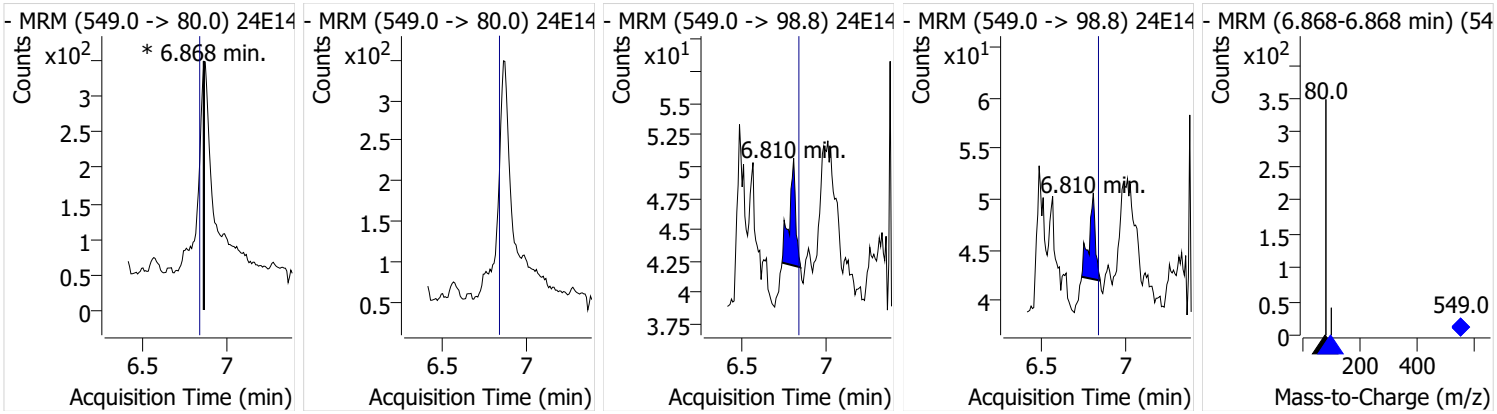

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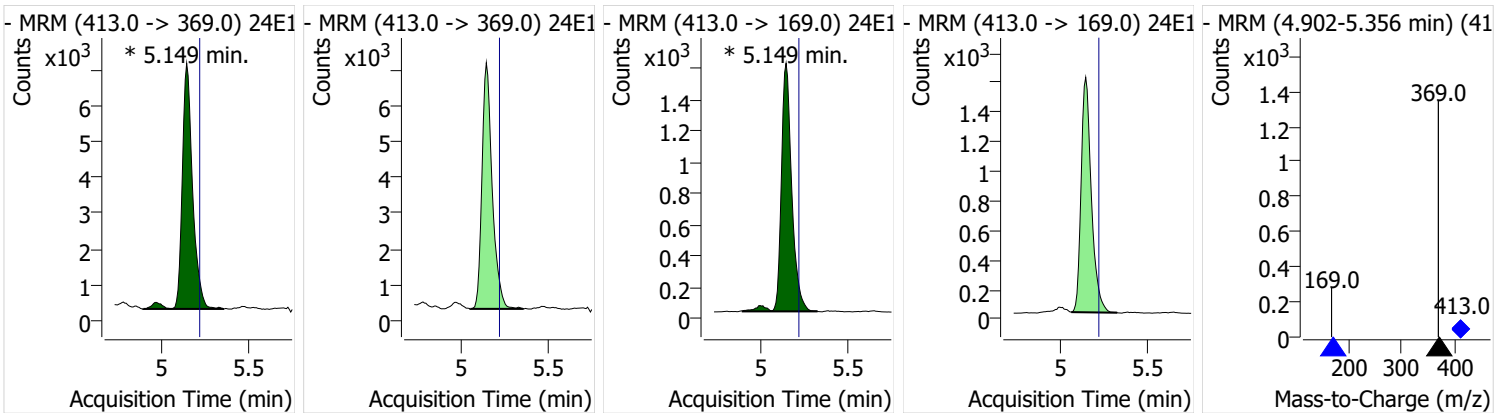

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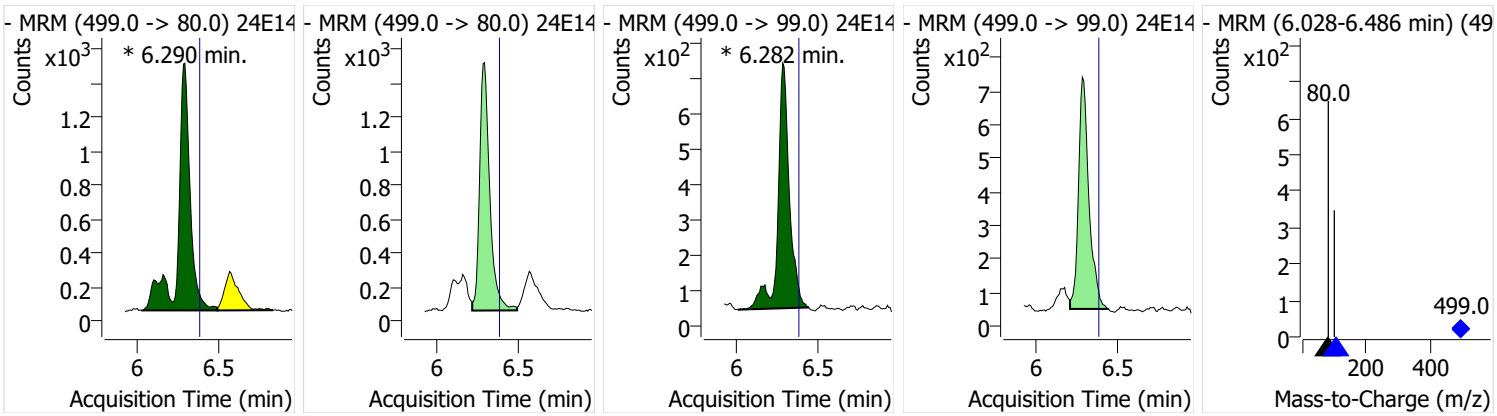

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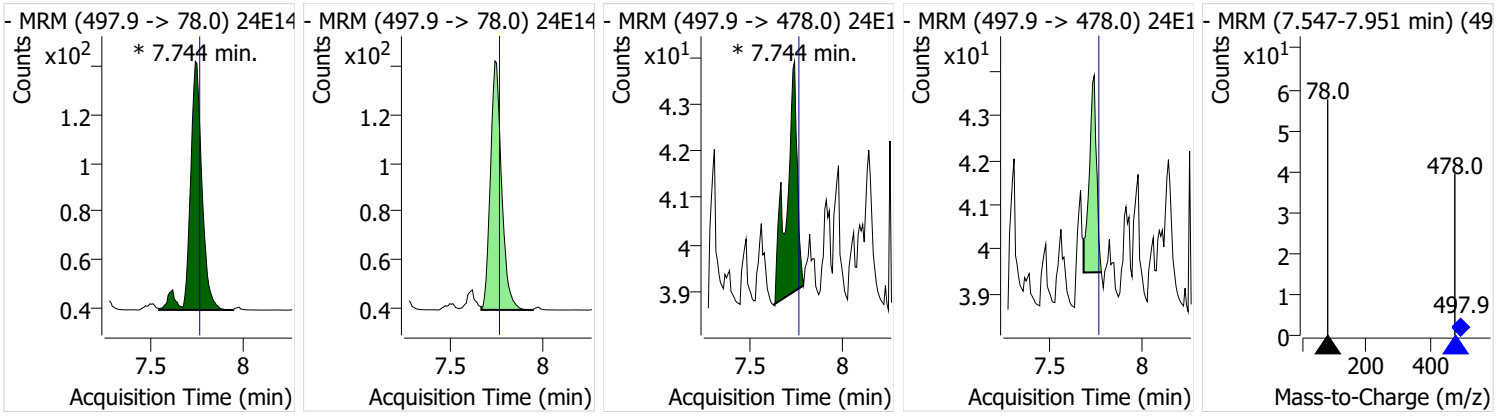

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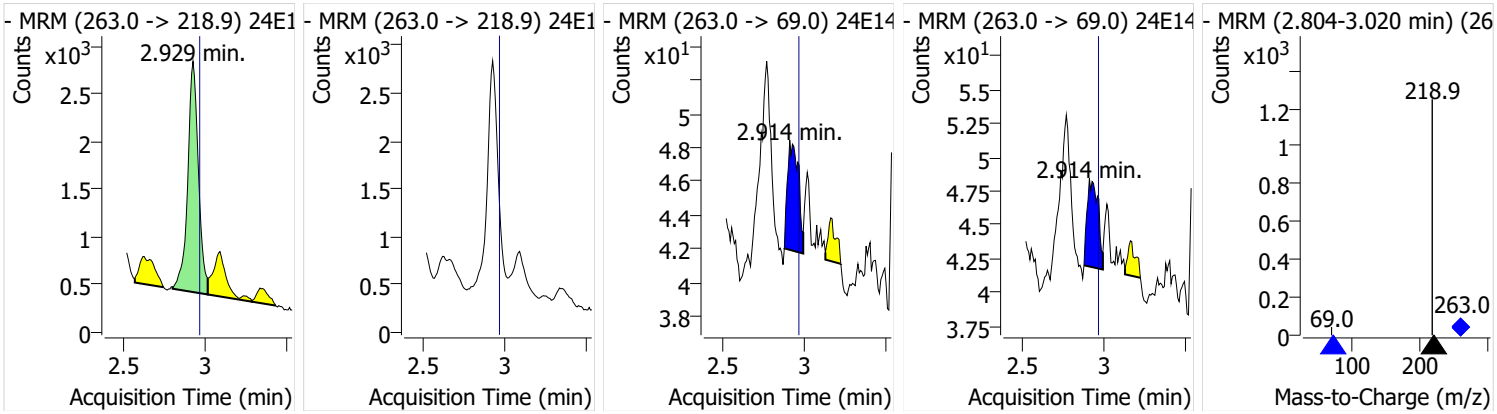

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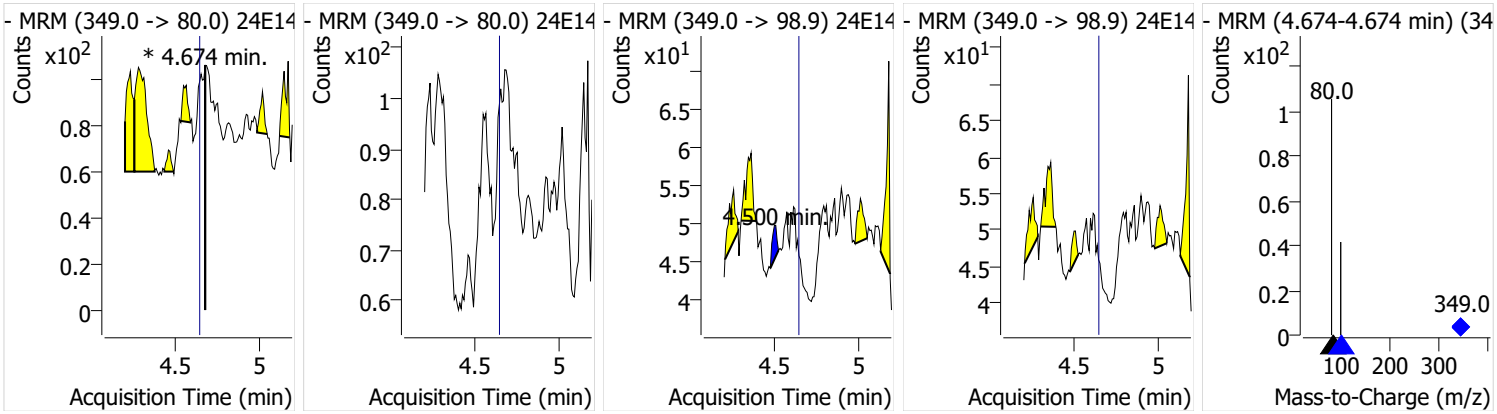

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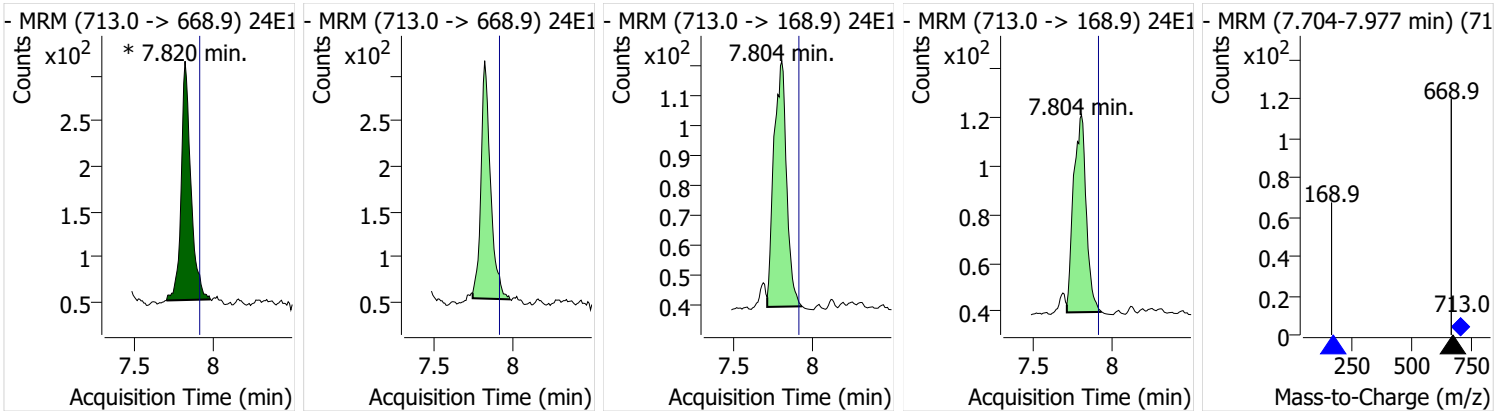

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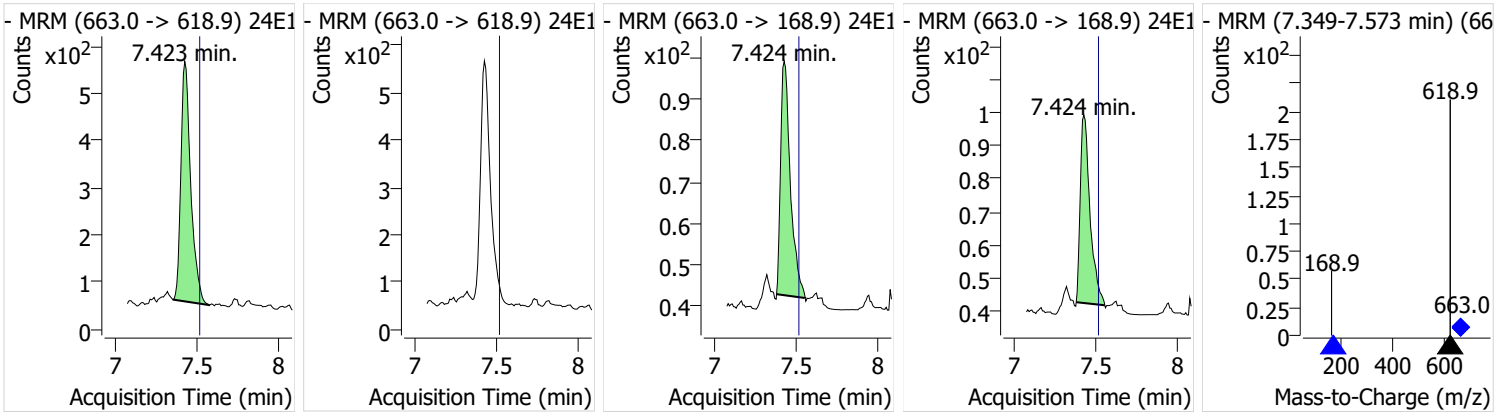

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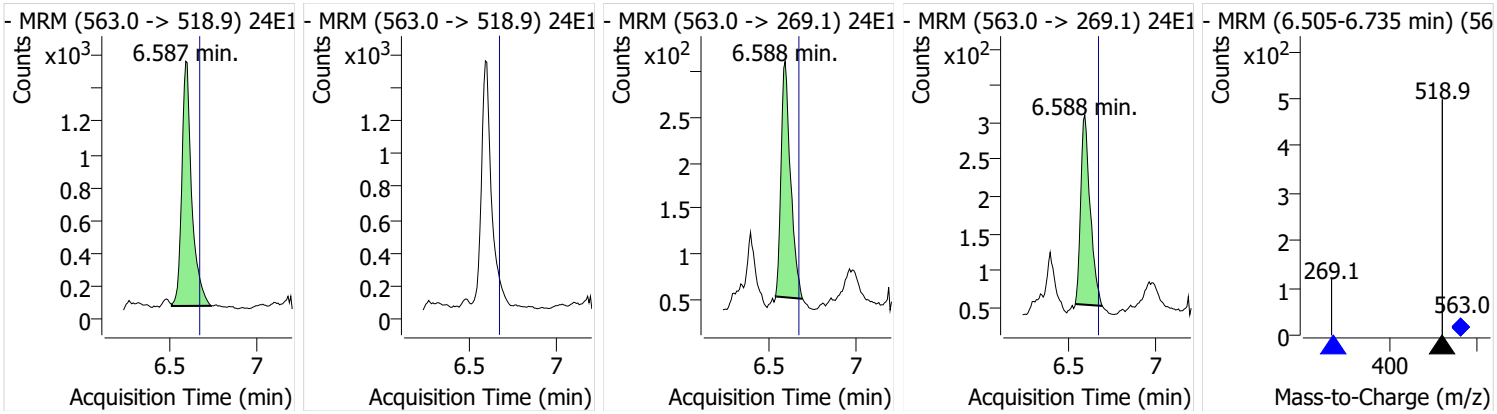

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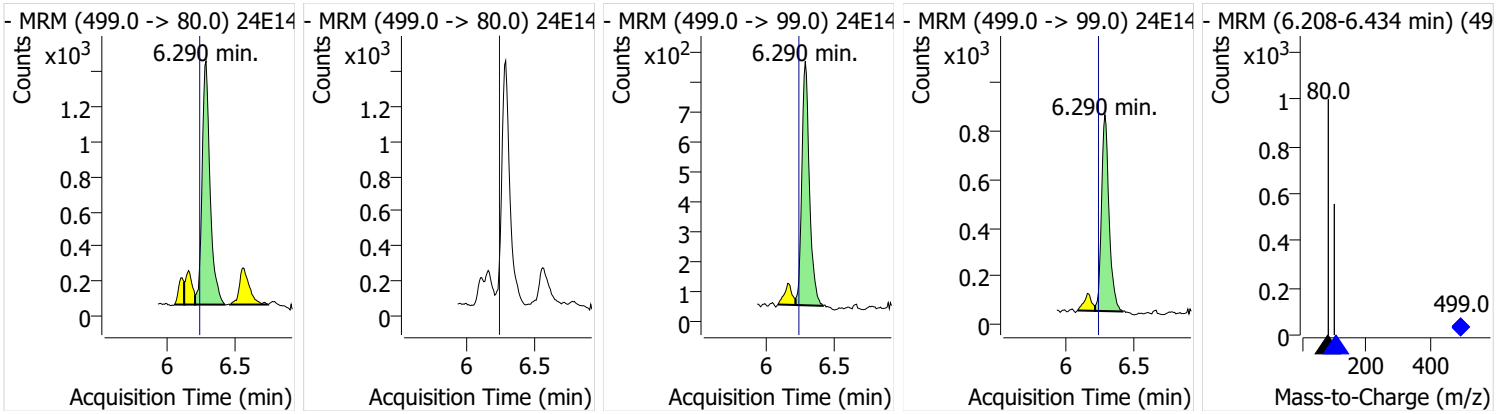
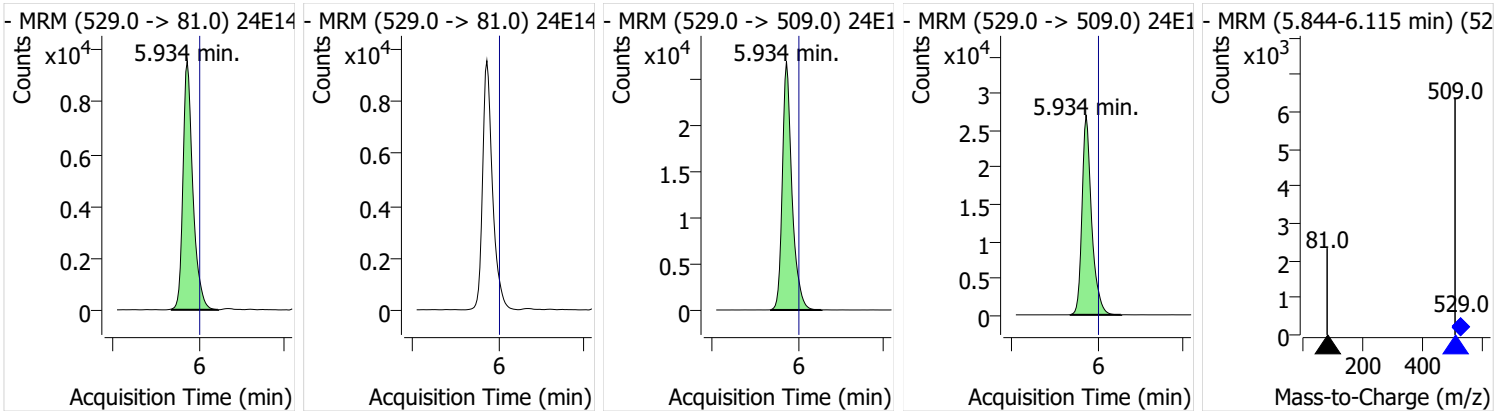
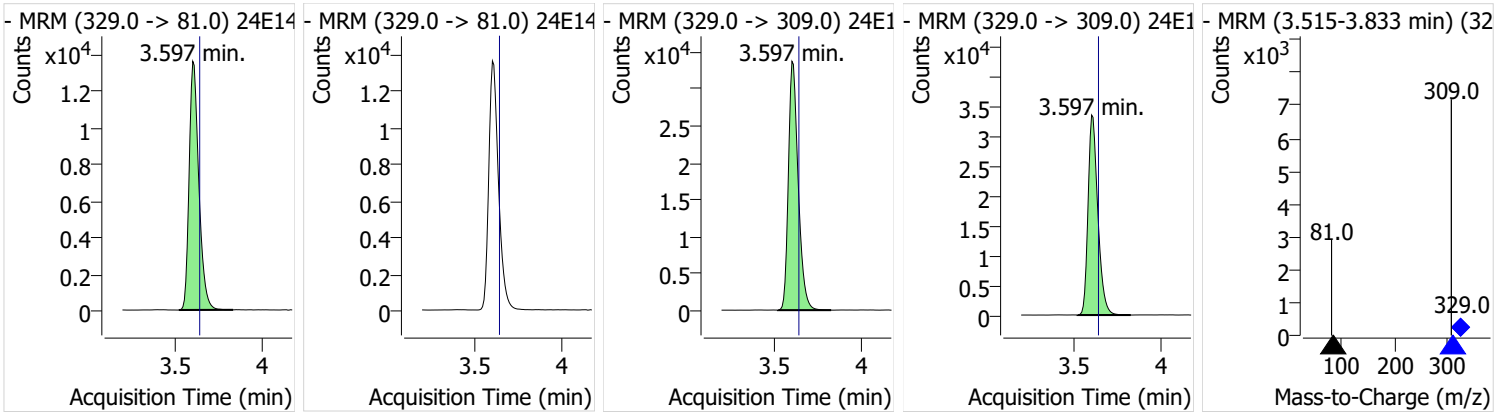


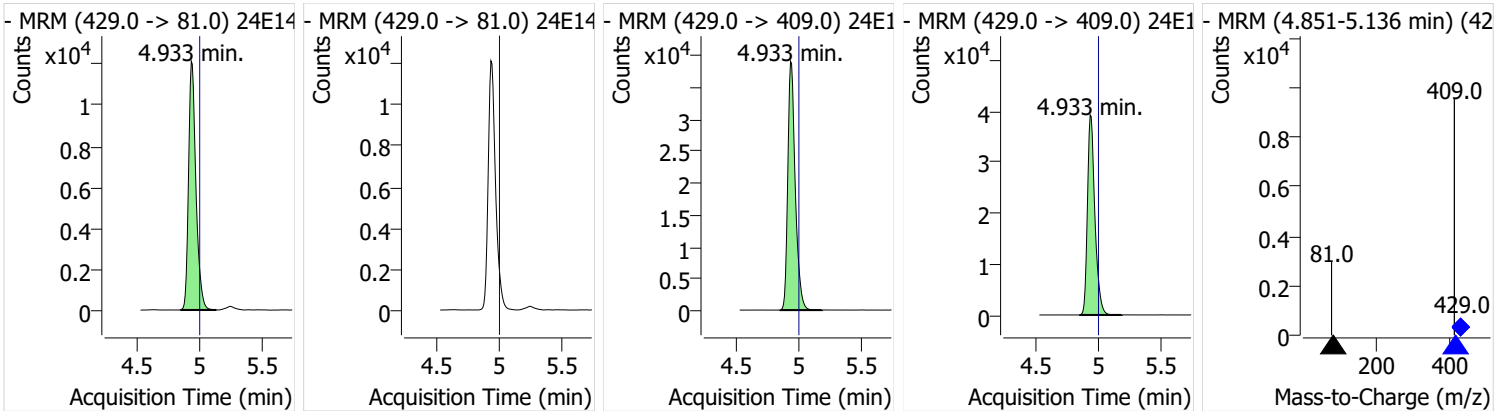
13C2-8:2FTS



13C2-4:2FTS



13C2-6:2FTS



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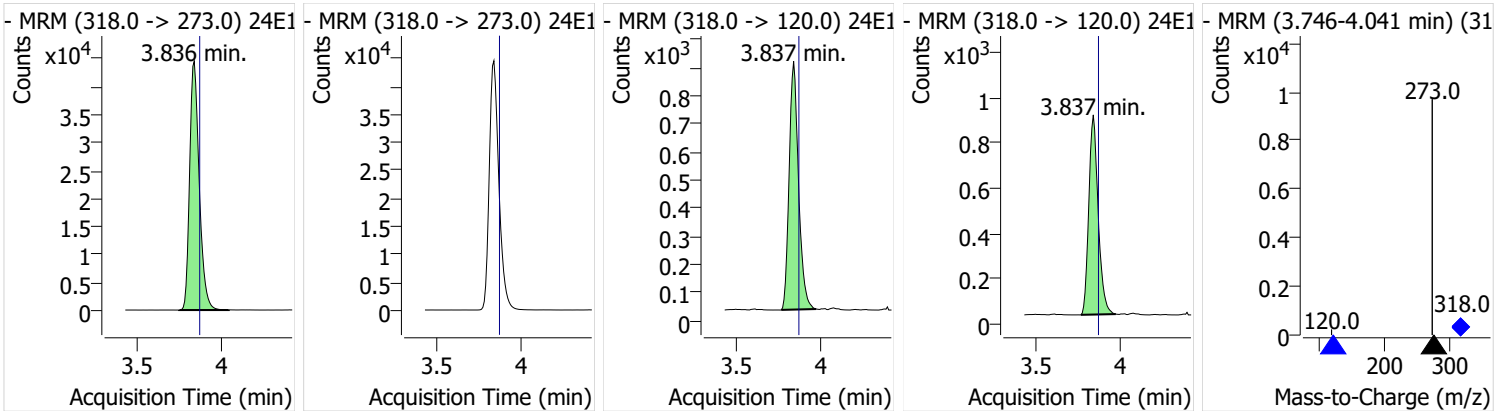
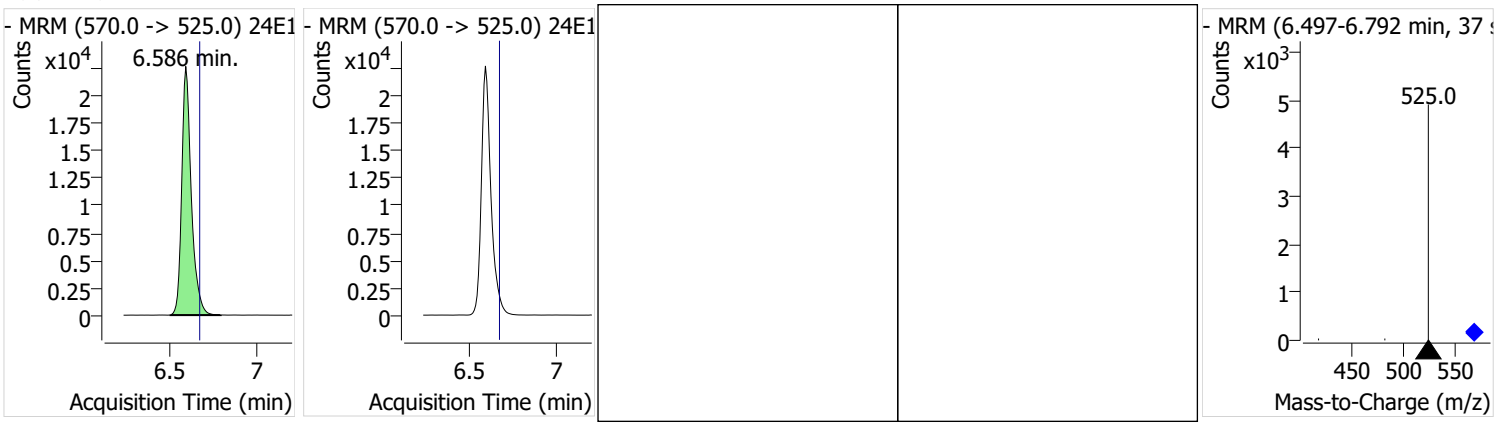


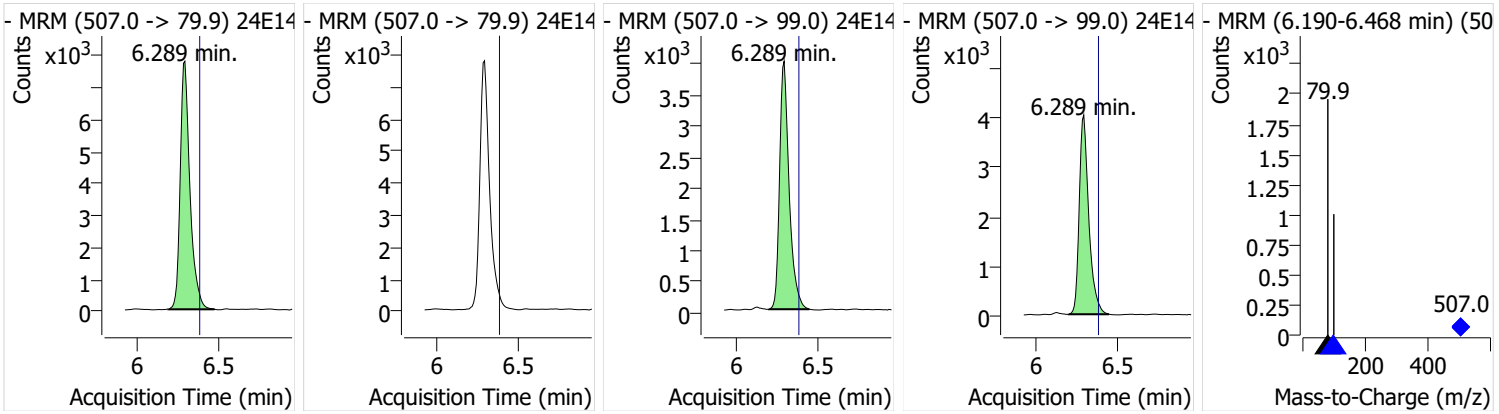
13C6-PFDA

13C7-PFUnA



13C8-PFOA

13C8-PFOS



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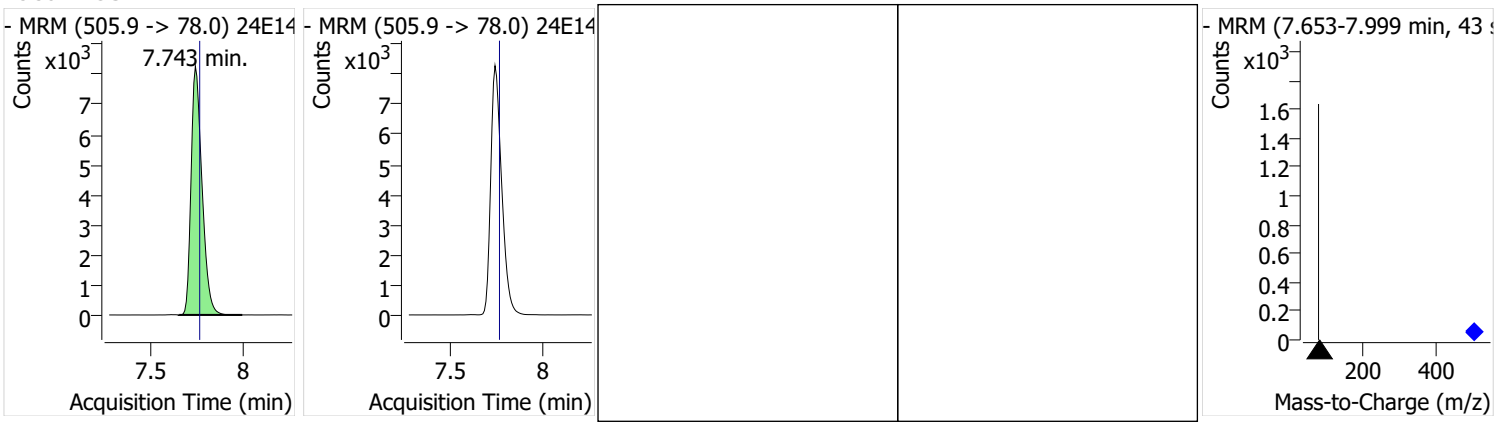

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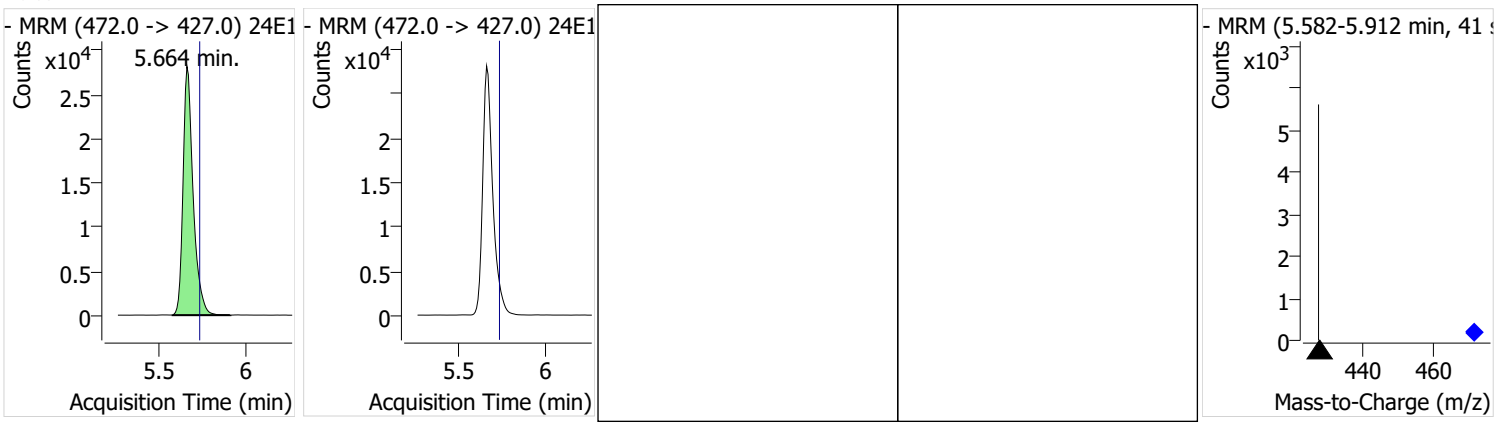

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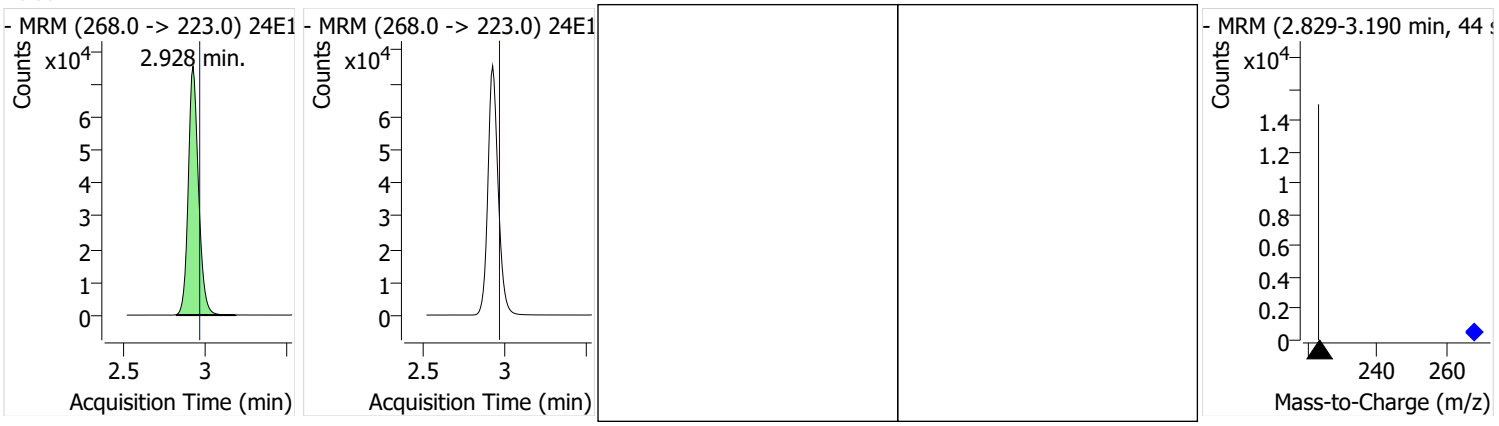
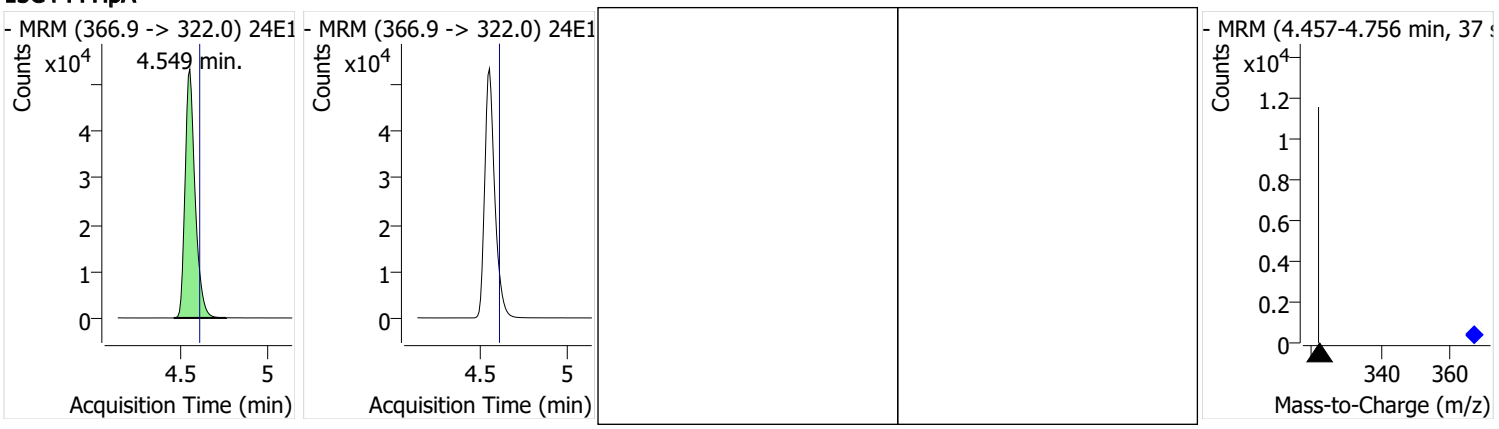
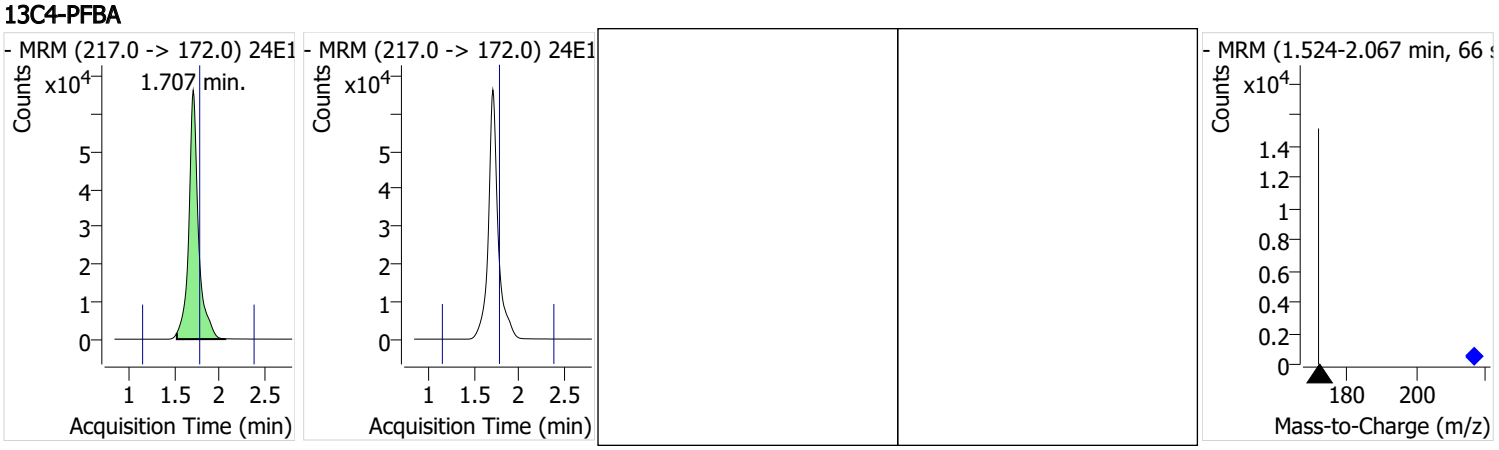


13C2-PFDoA

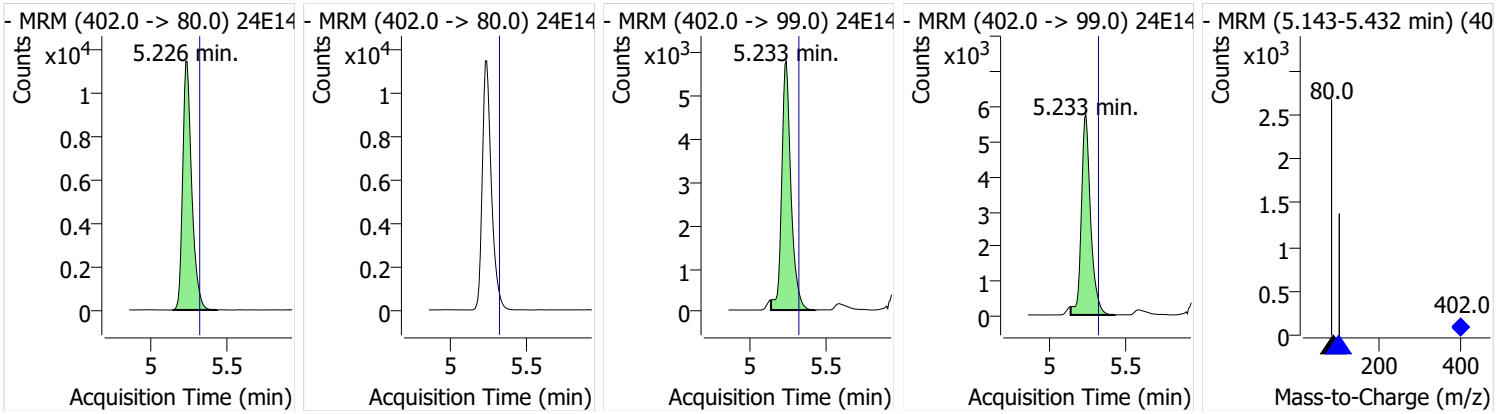
13C4-PFHpA



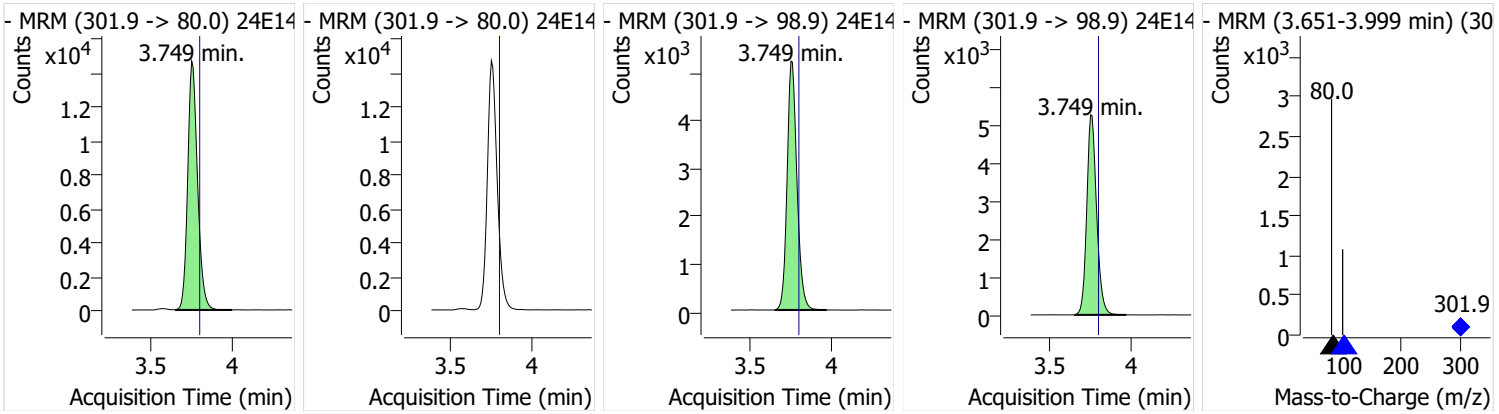
13C4-PFBA



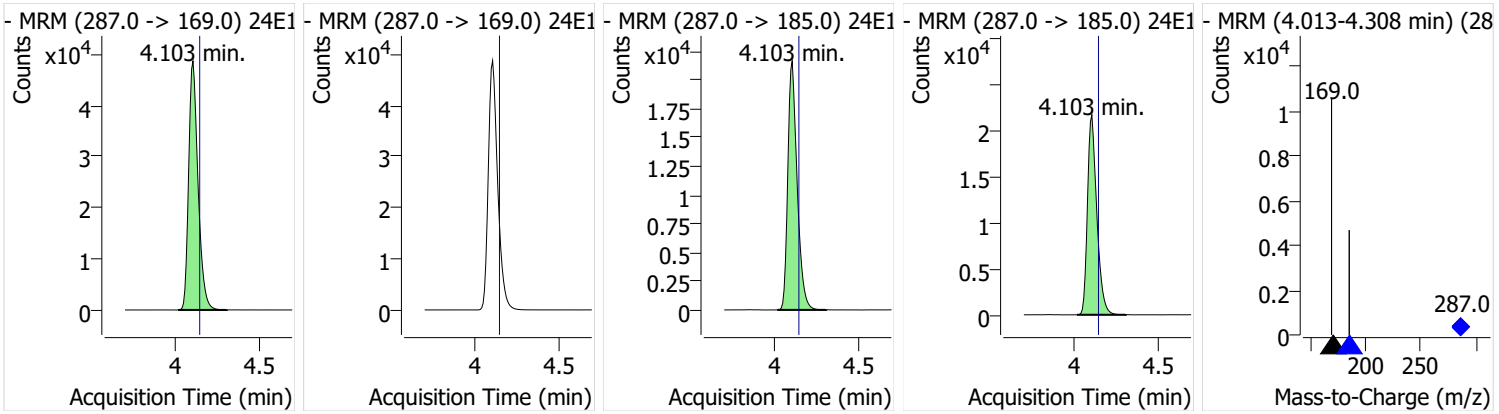
13C3-PFHxS



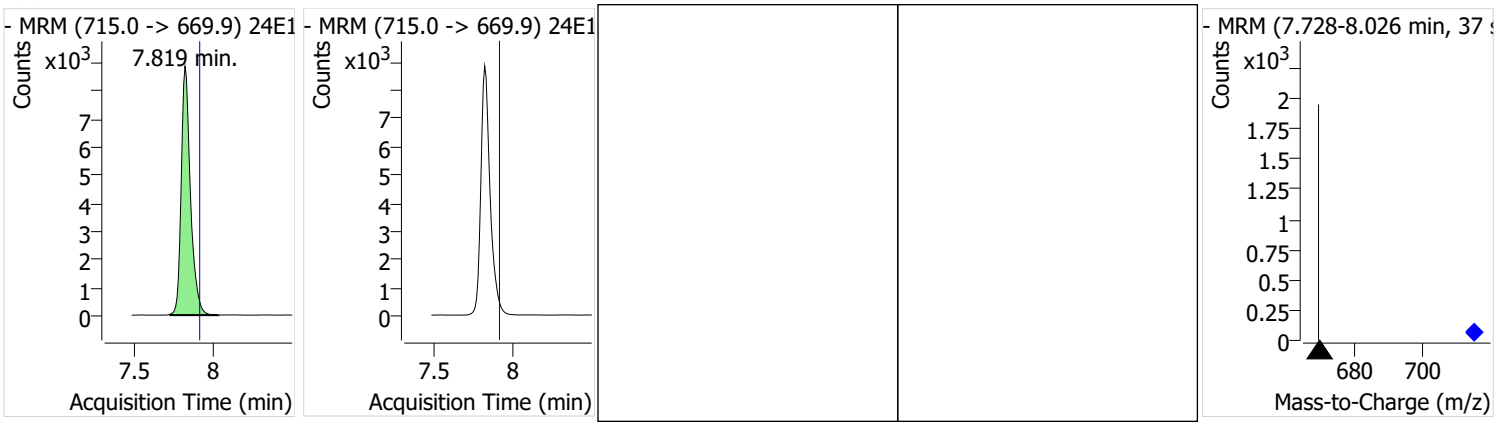
13C3-PFBS



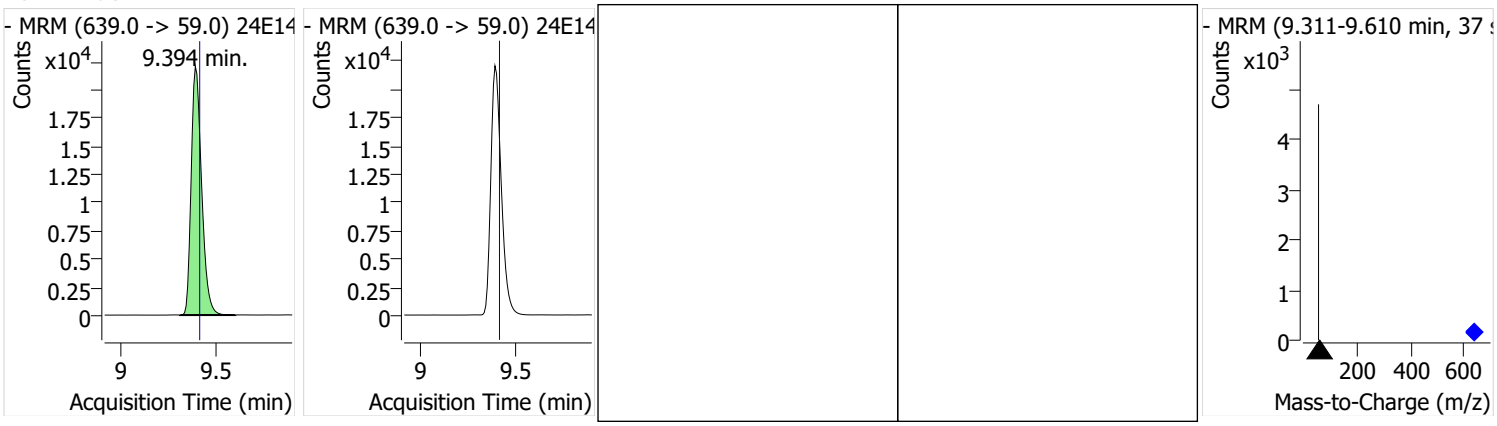
13C3-HFPODA



13C2-PFTeDA



D9-NEtFOSE

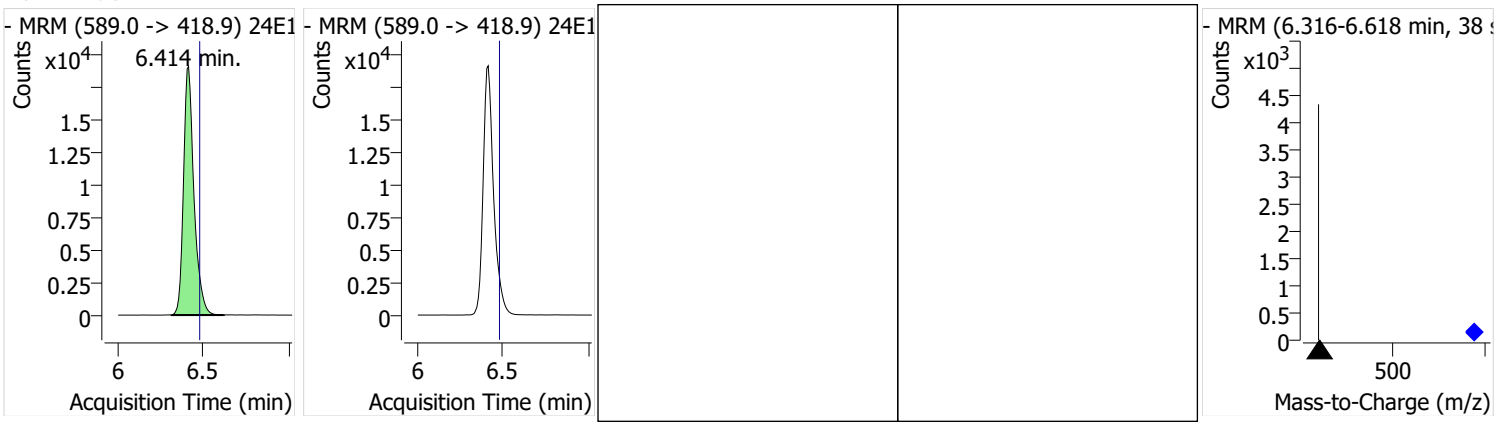


D3-NMeFOSA

D3-NMeFOSAA

D5-NEtFOSA

D5-NEtFOSAA



D7-NMeFOSE

1 - FORM I
ANALYSIS DATA SHEET

B1A

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-04	File ID:	24E1437-04.d
Sampled:	05/08/24 13:27	Prepared:	05/15/24 00:00	Analyzed:	05/18/24 10:08
Solids:	85.55	Preparation:	Draft Method 1633	Dilution:	1
Initial/Final:	5.995 g / 5 mL				
Batch:	B374213	Sequence:	S104823	Calibration:	2400518	Instrument:	QQQ6

CAS NO.	COMPOUND	CONC. (µg/kg dry)	MDL	RL	Q
375-22-4	Perfluorobutanoic acid (PFBA)		0.32	0.78	
2706-90-3	Perfluoropentanoic acid (PFPeA)		0.044	0.39	
307-24-4	Perfluorohexanoic acid (PFHxA)	0.051	0.032	0.19	J
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.043	0.014	0.19	J
335-67-1	Perfluorooctanoic acid (PFOA)	0.20	0.030	0.19	
375-95-1	Perfluorononanoic acid (PFNA)	0.031	0.014	0.19	J
335-76-2	Perfluorodecanoic acid (PFDA)	0.018	0.017	0.19	J
2058-94-8	Perfluoroundecanoic acid (PFUnA)		0.023	0.19	
307-55-1	Perfluorododecanoic acid (PFDoA)		0.021	0.19	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)		0.022	0.19	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)		0.020	0.19	
375-73-5	Perfluorobutanesulfonic acid (PFBS)		0.020	0.19	
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)		0.025	0.19	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)		0.077	0.19	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)		0.021	0.19	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.14	0.031	0.19	J
68259-12-1	Perfluorononanesulfonic acid (PFNS)		0.022	0.19	
335-77-3	Perfluorodecanesulfonic acid (PFDS)		0.031	0.19	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)		0.030	0.19	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (		0.068	0.78	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid ((		0.49	0.78	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (		0.091	0.78	
754-91-6	Perfluorooctanesulfonamide (PFOSA)		0.030	0.19	
31506-32-8	N-methyl perfluoroocatnesulfonamide (NMeF		0.024	0.19	
4151-50-2	N-ethyl perfluorooctanesulfonamide (NEtFOS		0.023	0.19	
2355-31-9	N-MeFOSAA (NMeFOSAA)		0.035	0.19	V-05
2991-50-6	N-EtFOSAA (NEtFOSAA)		0.029	0.19	
24448-09-7	N-methylperfluorooctanesulfonamidoethanol(		0.21	1.9	
1691-99-2	N-ethylperfluorooctanesulfonamidoethanol (N		0.21	1.9	
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPC		0.050	0.78	

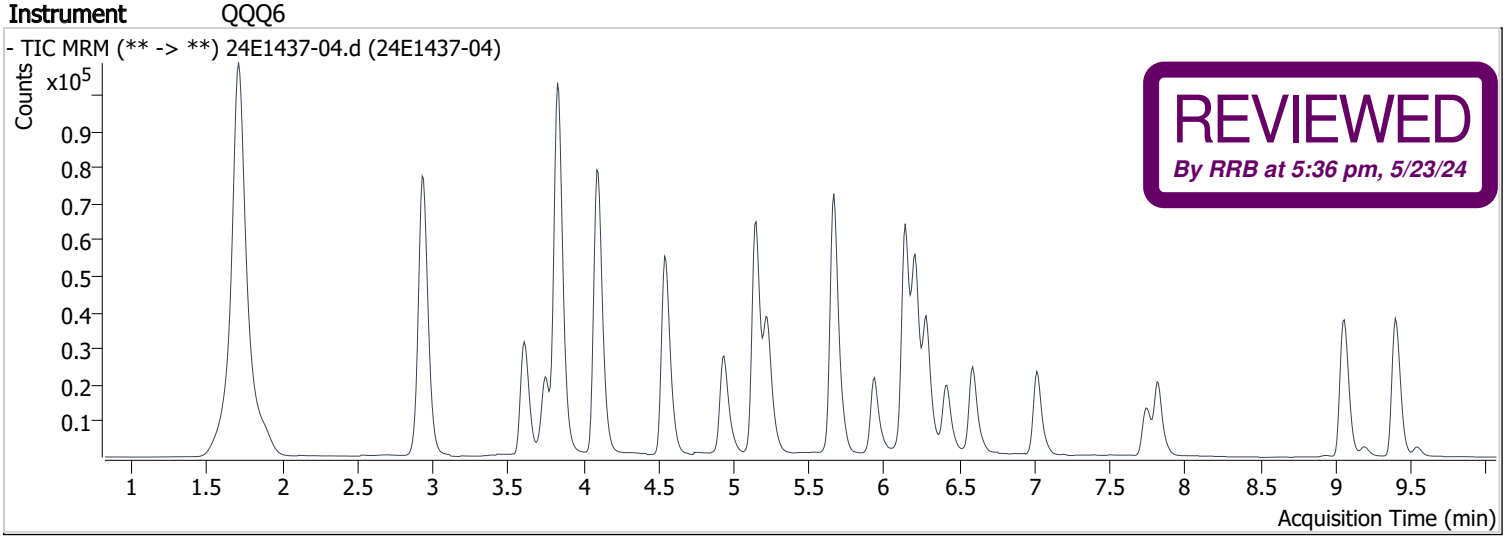
1 - FORM I
ANALYSIS DATA SHEET

B1A

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-04	File ID:	24E1437-04.d
Sampled:	05/08/24 13:27	Prepared:	05/15/24 00:00	Analyzed:	05/18/24 10:08
Solids:	85.55	Preparation:	Draft Method 1633	Dilution:	1
Initial/Final:	5.995 g / 5 mL				
Batch:	B374213	Sequence:	S104823	Calibration:	2400518
Instrument:	QQQ6				

CAS NO.	COMPOUND	CONC. (µg/kg dry)	MDL	RL	Q
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADON		0.058	0.78	
756426-58-1	9Cl-PF3ONS (F53B Minor)		0.056	0.78	
763051-92-9	11Cl-PF3OUdS (F53B Major)		0.086	0.78	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)(3:3		0.19	1.9	
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)		1.3	9.7	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)(7:3		1.5	9.7	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEE		0.031	0.39	
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)		0.032	0.39	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)		0.032	0.39	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)		0.059	0.39	

Batch Path	R:\Data\MAY2024\051724\QuantResults\B374213.batch.bin		
Analysis Time	5/23/2024 5:54 AM	**Last Calib Update**	5/9/2024 9:16 AM
Acq. Time	5/18/2024 10:08 AM	**Data File**	24E1437-04.d
Sample Type	Sample	**Sample Name**	24E1437-04
Dilution	1	**Acq. Method**	1633_ACQUISITION_01.m
Sample Comment		**Processing method**	1633_050824.m
Instrument	QQQ6		



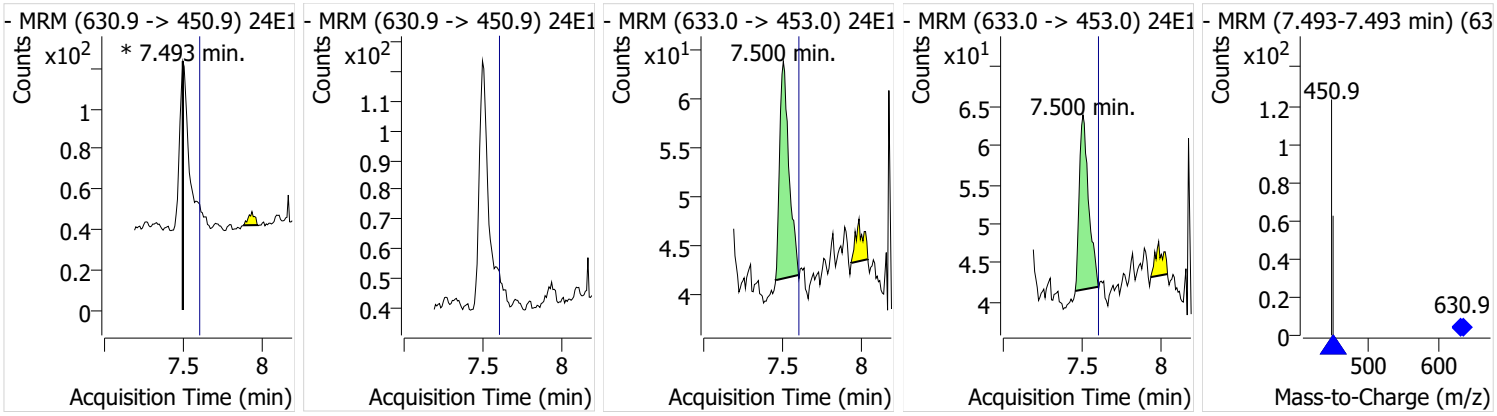
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
11Cl-PF3OUdS	7.493	0			13C3-HFPODA - ISTD	4.095	218298	-	ng/ml	✔	1	ALB 5/22/24
633.0 -> 453.0				*								
3:3FTCA	2.723	0			13C5-PFPeA - ISTD	2.928	346623	-	ng/ml	✔	1	ALB 5/22/24
241.0 -> 117.0				*								
4:2FTS	3.631	0			13C2-4:2FTS - ISTD	3.605	36432	-	ng/ml	✔	1	ALB 5/22/24
327.0 -> 80.9				*								
5:3FTCA	4.351	0			13C5-PFHxA - ISTD	3.828	187734	-	ng/ml	✔	1	ALB 5/22/24
341.0 -> 217.0				*								
6:2FTS	4.925	249	14.62		13C2-6:2FTS - ISTD	4.933	25828	0.0142	ng/ml			
427.0 -> 80.9			11.09	39.2								
7:3FTCA	5.666	0			13C5-PFHxA - ISTD	3.828	187734	-	ng/ml	✔	1	ALB 5/22/24
441.0 -> 317.0				*								
8:2FTS	6.000	0			13C2-8:2FTS - ISTD	5.934	22585	-	ng/ml	✔	1	ALB 5/22/24
527.0 -> 81.0				*								
9Cl-PF3ONS	6.622	0			13C3-HFPODA - ISTD	4.095	218298	-	ng/ml	✔	1	ALB 5/22/24
533.0 -> 353.0				*								
ADONA	4.789	0			13C3-HFPODA - ISTD	4.095	218298	-	ng/ml	✔	1	ALB 5/22/24
377.0 -> 85.1				*								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA	4.088	0			13C3-HFPODA - ISTD	4.095	218298	-	ng/ml	✔	1	ALB 5/22/24
285.0 -> 184.9				*								
NEtFOSA	9.548	74	67.39		D5-NEtFOSA - ISTD	9.538	8893	0.0160	ng/ml	✔	3	ALB 5/22/24
526.0 -> 219.0			66.51	79.1								
NEtFOSAA	6.463	0			D5-NEtFOSAA - ISTD	6.414	77020	-	ng/ml	✔	1	ALB 5/22/24
584.0 -> 526.0				*								
NEtFOSE	9.428	0			D9-NEtFOSE - ISTD	9.394	151742	-	ng/ml	✔	1	ALB 5/22/24
NFDHA	3.742	0			13C5-PFHxA - ISTD	3.828	187734	-	ng/ml	✔	1	ALB 5/22/24
295.0 -> 85.0				*								
NMeFOSA	9.203	46	38.90		D3-NMeFOSA - ISTD	9.193	9496	0.0101	ng/ml	✔	3	ALB 5/22/24
512.0 -> 219.0			46.36	86.1								
NMeFOSAA	6.334	0			D3-NMeFOSAA - ISTD	6.203	177280	-	ng/ml	✔	1	ALB 5/22/24
570.0 -> 418.9				*								
NMeFOSE	9.074	0			D7-NMeFOSE - ISTD	9.057	155274	-	ng/ml	✔	1	ALB 5/22/24
PFBA	1.704	5926	181.80		13C4-PFBA - ISTD	1.707	535830	0.1198	ng/ml	✔	3	ALB 5/22/24
PFBS	3.750	614	60.17		13C3-PFBS - ISTD	3.749	66457	0.0185	ng/ml	✔	3	ALB 5/22/24
298.9 -> 98.8			53.92	34.4								
PFDA	6.140	1688	35.20		13C6-PFDA - ISTD	6.140	113707	0.0180	ng/ml	✔	3	ALB 5/22/24
513.0 -> 219.0			46.28	9.9								
PFDoA	7.012	777	63.09		13C2-PFDoA - ISTD	7.011	93115	0.0101	ng/ml			
613.0 -> 319.0			13.87	8.3								
PFDoS	8.020	0			13C8-PFOS - ISTD	6.281	35271	-	ng/ml	✔	1	ALB 5/22/24
698.9 -> 99.0				*								
PFDS	7.189	0			13C8-PFOS - ISTD	6.281	35271	-	ng/ml	✔	1	ALB 5/22/24
599.0 -> 98.8				*								
PFEESA	4.197	0			13C5-PFHxA - ISTD	3.828	187734	-	ng/ml	✔	1	ALB 5/22/24
315.0 -> 83.0				*								
PFHpA	4.542	4098	66.92		13C4-PFHpA - ISTD	4.541	222370	0.0442	ng/ml			
362.9 -> 169.0			145.64	17.7								
PFHpS	5.766	0			13C8-PFOS - ISTD	6.281	35271	-	ng/ml	✔	1	ALB 5/22/24
449.0 -> 98.8				*								
PFHxA	3.830	4024	54.65		13C5-PFHxA - ISTD	3.828	187734	0.0527	ng/ml			

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
313.0 -> 118.9			19.75	4.0								
PFHxS	5.227	579	48.27		13C3-PFHxS - ISTD	5.226	48392	0.0265	ng/ml	✔	3	ALB 5/22/24
398.9 -> 99.0			67.81	46.7								
PFMBA	3.263	0			13C5-PFPeA - ISTD	2.928	346623	-	ng/ml	✔	1	ALB 5/22/24
PFMPA	2.225	0			13C5-PFPeA - ISTD	2.928	346623	-	ng/ml	✔	1	ALB 5/22/24
PFNA	5.665	3162	57.42		13C9-PFNA - ISTD	5.664	123148	0.0319	ng/ml	✔	3	ALB 5/22/24
463.0 -> 219.0			145.47	24.2								
PFNS	6.843	0			13C8-PFOS - ISTD	6.281	35271	-	ng/ml	✔	1	ALB 5/22/24
549.0 -> 98.8				*								
PFOA	5.149	21171	164.97		13C8-PFOA - ISTD	5.148	206770	0.2039	ng/ml	✔	3	ALB 5/22/24
413.0 -> 169.0			443.99	24.9								
PFOS	6.282	2694	124.17		13C8-PFOS - ISTD	6.281	35271	0.1470	ng/ml	✔	3	ALB 5/22/24
499.0 -> 99.0			104.67	44.6								
PFOSA	7.744	0			13C8-PFOSA - ISTD	7.743	54784	-	ng/ml	✔	1	ALB 5/22/24
497.9 -> 478.0				*								
PFPeA	2.929	2903	33.56		13C5-PFPeA - ISTD	2.928	346623	0.0415	ng/ml			
263.0 -> 69.0			4.09	0.3								
PFPeS	4.543	0			13C3-PFHxS - ISTD	5.226	48392	-	ng/ml	✔	1	ALB 5/22/24
349.0 -> 98.9				*								
PFTeDA	7.820	0			13C2-PFTeDA - ISTD	7.819	75231	-	ng/ml	✔	1	ALB 5/22/24
713.0 -> 168.9				*								
PFTrDA	7.423	656	38.40		13C2-PFDoA - ISTD	7.011	93115	0.0100	ng/ml	✔	3	
663.0 -> 168.9			36.71	9.7								
PFUnA	6.587	1142	25.13		13C7-PFUnA - ISTD	6.586	96659	0.0147	ng/ml	✔	3	ALB 5/22/24
563.0 -> 269.1			25.40	14.0								
TDCA	6.282	1547	162.26					-	ng/ml			
499.0 -> 99.0			445.85	***52.0**								
13C2-8:2FTS	5.934	22585	2732.26		18O2-PFHxS	5.225	54685	6.2833	ng/ml			
529.0 -> 509.0			4504.02	271.9								
13C2-4:2FTS	3.605	36432	5508.38		18O2-PFHxS	5.225	54685	5.5671	ng/ml			
329.0 -> 309.0			6523.54	249.4								
13C2-6:2FTS	4.933	25828	6170.32		18O2-PFHxS	5.225	54685	5.8408	ng/ml			
429.0 -> 409.0			8394.98	327.5								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
13C5-PFHxA	3.828	187734	30767.76		13C2-PFHxA	3.829	212643	2.1425	ng/ml			
318.0 -> 120.0			1815.42	1.8								
13C6-PFDA	6.140	113707	9486.53		13C2-PFDA	6.140	135890	1.0605	ng/ml			
13C7-PFUnA	6.586	96659	16002.77		13C2-PFDA	6.140	135890	1.1135	ng/ml			
13C8-PFOA	5.148	206770	33203.72		13C4-PFOA	5.148	34289	2.1996	ng/ml			
13C8-PFOS	6.281	35271	4310.96		13C4-PFOS	6.281	47732	2.0554	ng/ml			
507.0 -> 99.0			4088.00	51.3								
13C8-PFOSA	7.743	54784	573774.35		13C4-PFOS	6.281	47732	1.8152	ng/ml			
13C9-PFNA	5.664	123148	9432.19		13C5-PFNA	5.664	165101	1.0938	ng/ml			
13C5-PFPeA	2.928	346623	16389.32		13C2-PFHxA	3.829	212643	4.4139	ng/ml			
13C2-PFDoA	7.011	93115	17107.75		13C2-PFDA	6.140	135890	1.0393	ng/ml			
13C4-PFHpA	4.541	222370	38165.39		13C2-PFHxA	3.829	212643	2.2687	ng/ml			
13C4-PFBA	1.707	535830	159249.07		13C3-PFBA	1.710	289226	8.5330	ng/ml			
13C3-PFHxS	5.226	48392	7471.60		18O2-PFHxS	5.225	54685	2.1669	ng/ml			
402.0 -> 99.0			7462.01	50.1								
13C3-PFBS	3.749	66457	8238.46		18O2-PFHxS	5.225	54685	2.2486	ng/ml			
301.9 -> 98.9			7980.05	34.1								
13C3-HFPODA	4.095	218298	32214.51		13C2-PFHxA	3.829	212643	8.9064	ng/ml			
287.0 -> 185.0			9043.29	45.8								
13C2-PFTeDA	7.819	75231	24168.37		13C2-PFDA	6.140	135890	0.9752	ng/ml			
D9-NEtFOSE	9.394	151742	32643.32		13C4-PFOS	6.281	47732	12.0905	ng/ml			
D3-NMeFOSA	9.193	9496	4241.91		13C4-PFOS	6.281	47732	0.9810	ng/ml			
D3-NMeFOSAA	6.203	177280	31889.30		13C4-PFOS	6.281	47732	5.7333	ng/ml			
D5-NEtFOSA	9.538	8893	4059.40		13C4-PFOS	6.281	47732	0.8807	ng/ml			
D5-NEtFOSAA	6.414	77020	10980.92		13C4-PFOS	6.281	47732	4.9225	ng/ml			
D7-NMeFOSE	9.057	155274	35809.64		13C4-PFOS	6.281	47732	13.2385	ng/ml			

11Cl-PF3OUdS



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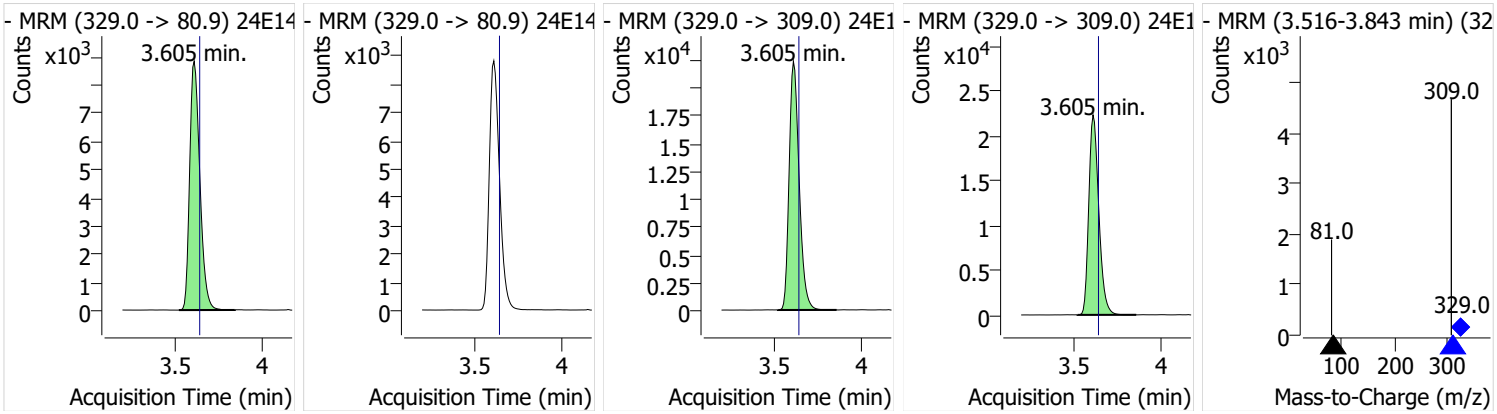
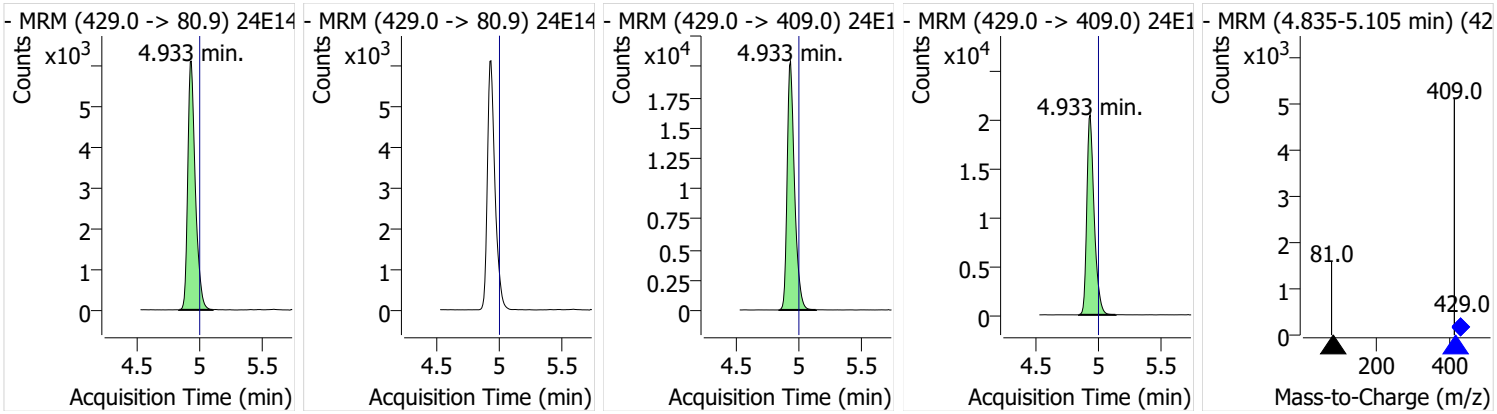


13C2-6:2FTS - ISTD



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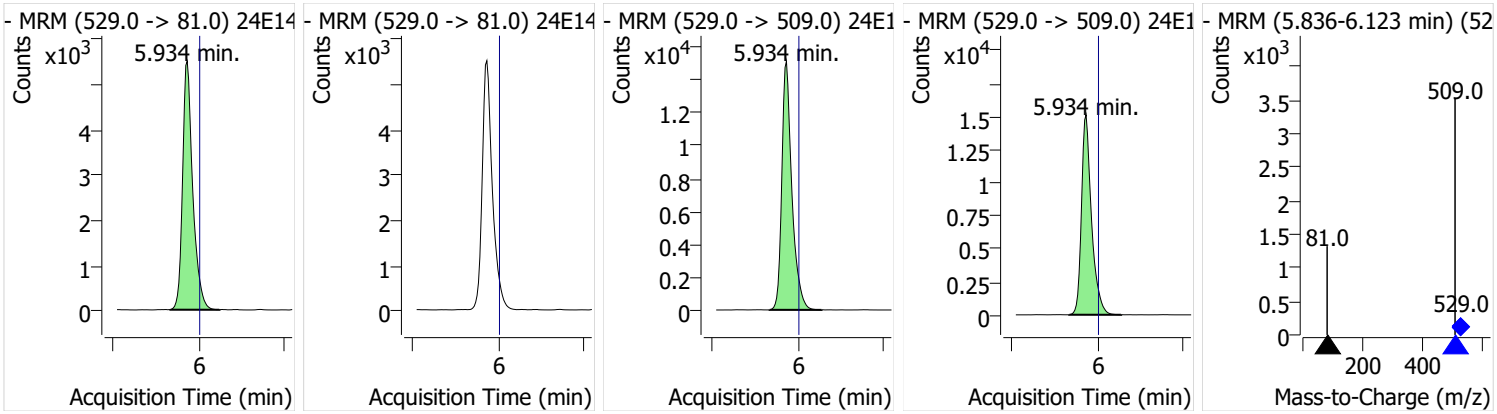
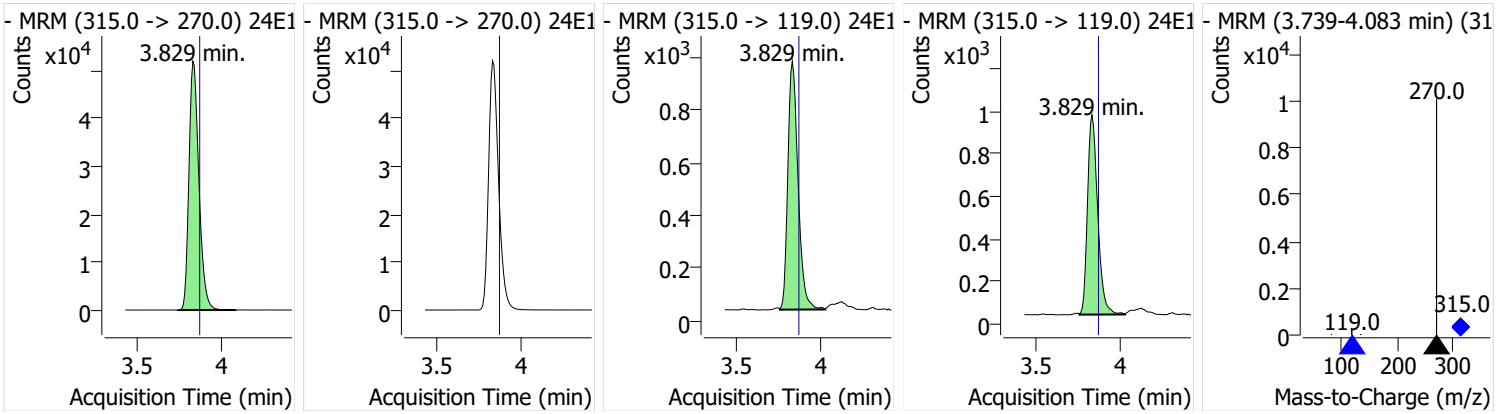


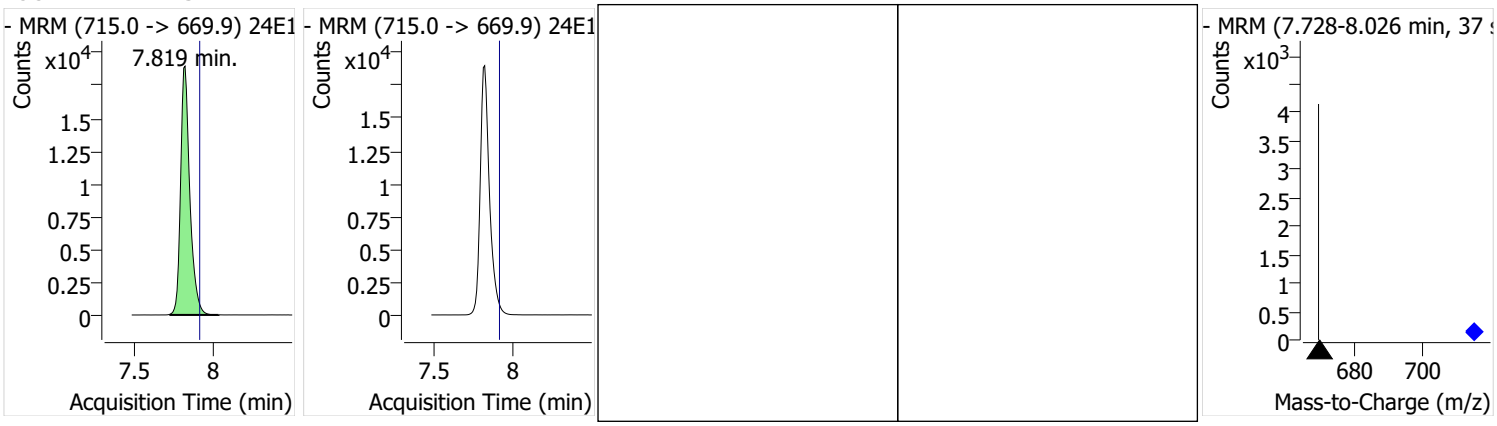
13C2-PFDA

13C2-PFDoA - ISTD

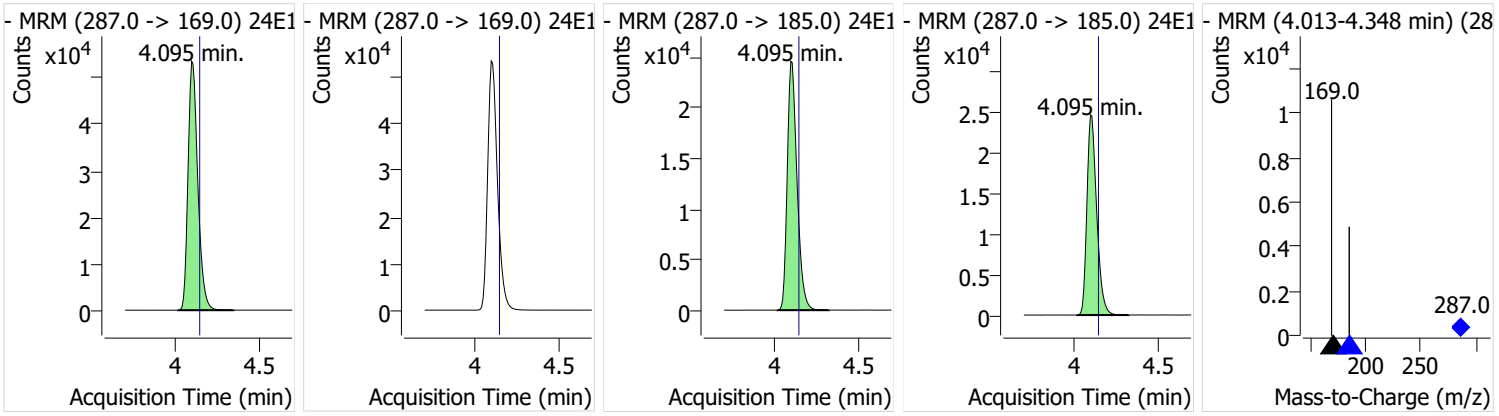
13C2-PFHxA



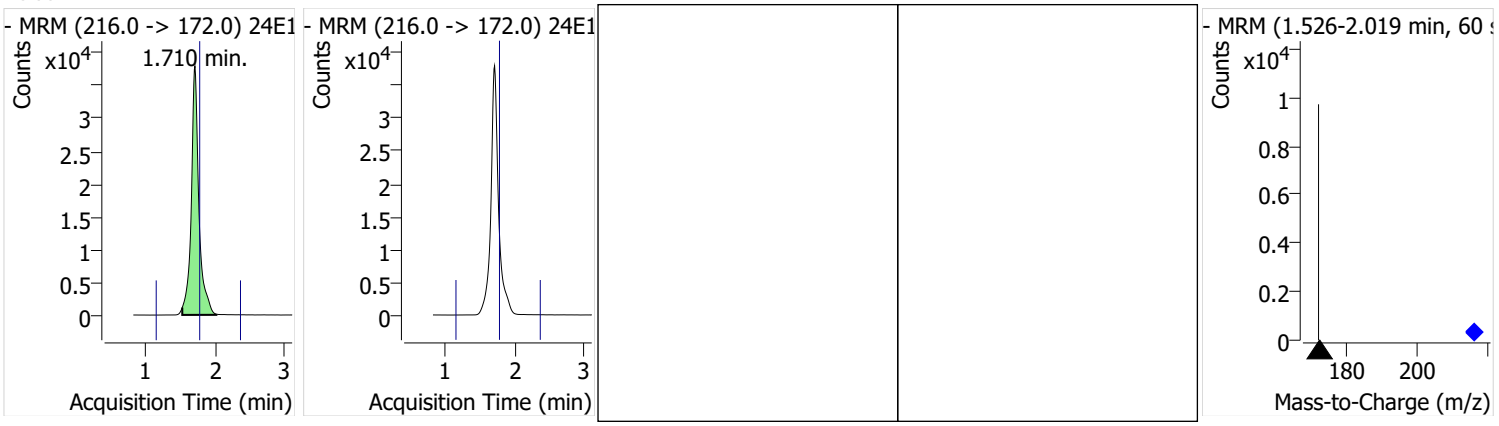
13C2-PFTeDA - ISTD



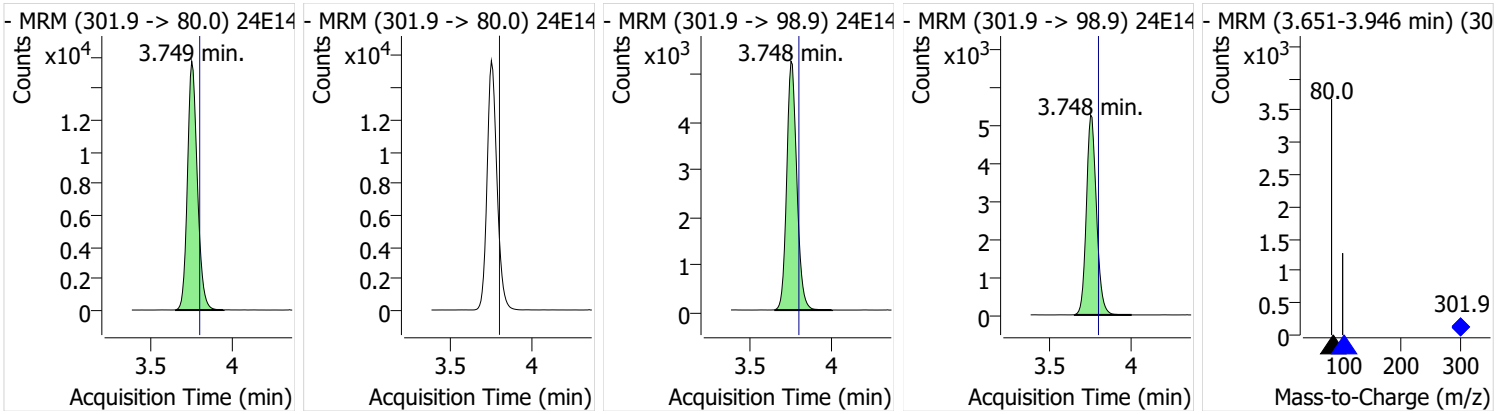
13C3-HFPODA - ISTD



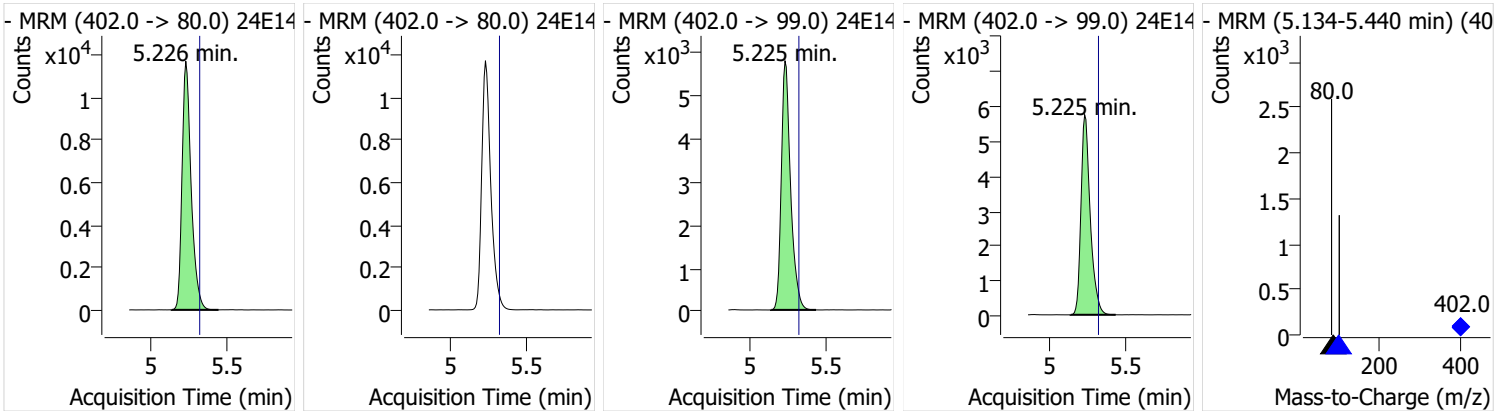
13C3-PFBA



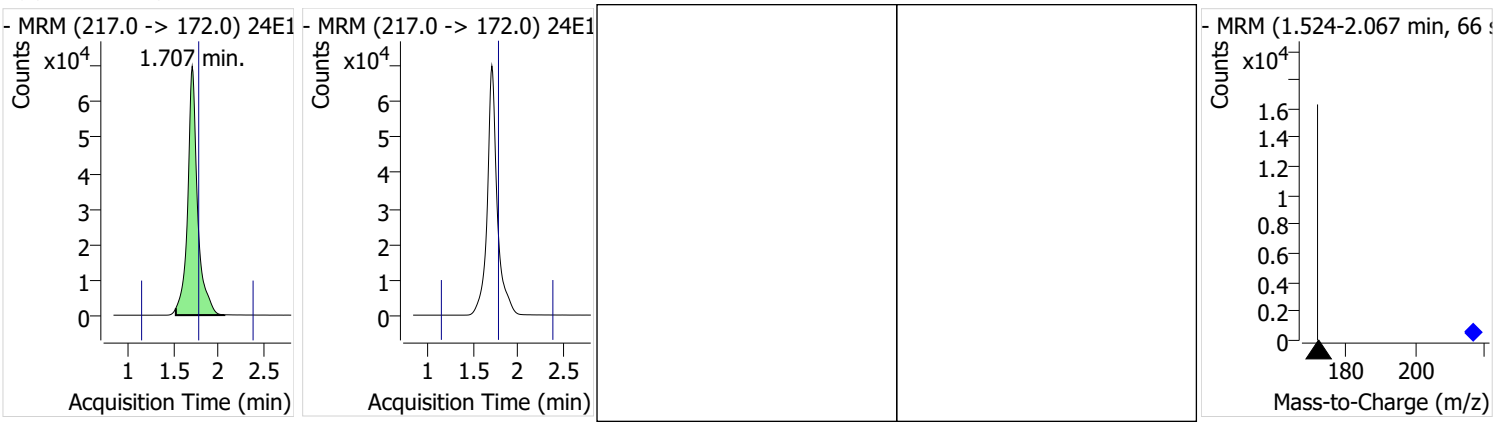
13C3-PFBS - ISTD



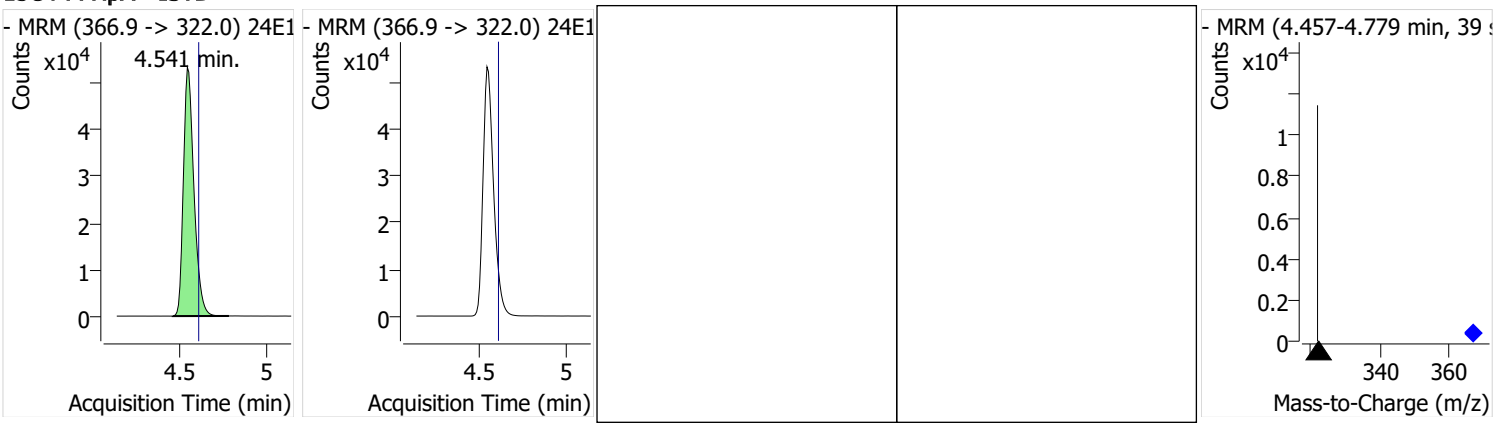
13C3-PFHxS - ISTD



13C4-PFBA - ISTD

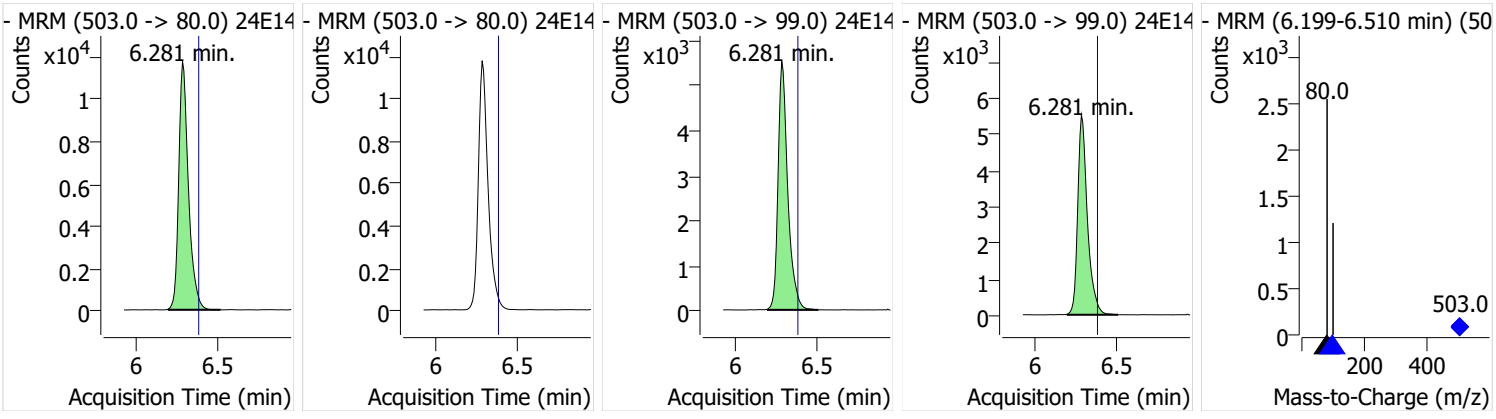


13C4-PFHpA - ISTD

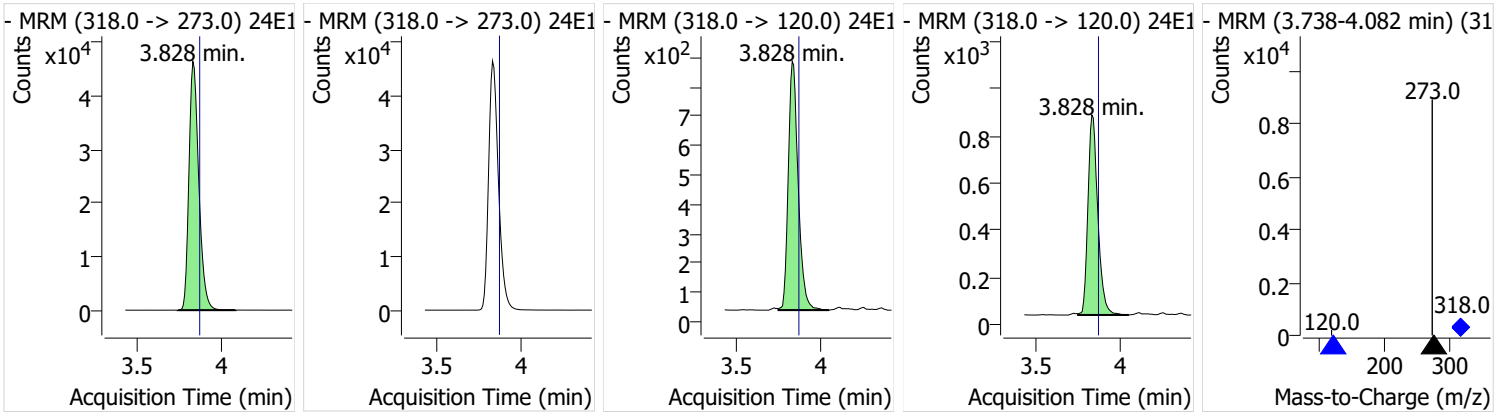


13C4-PFOA

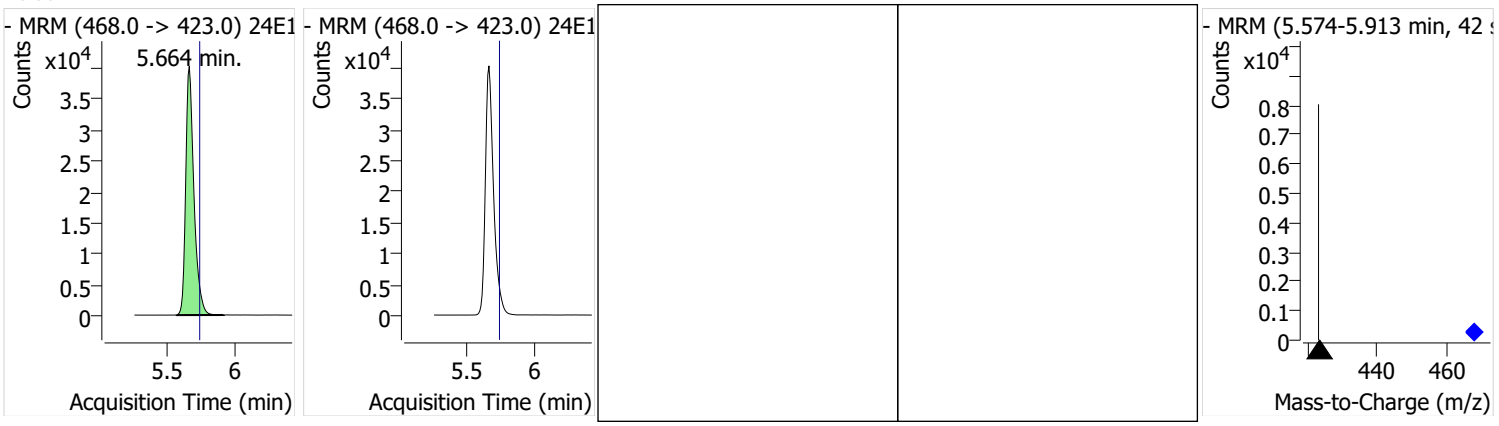
13C4-PFOS



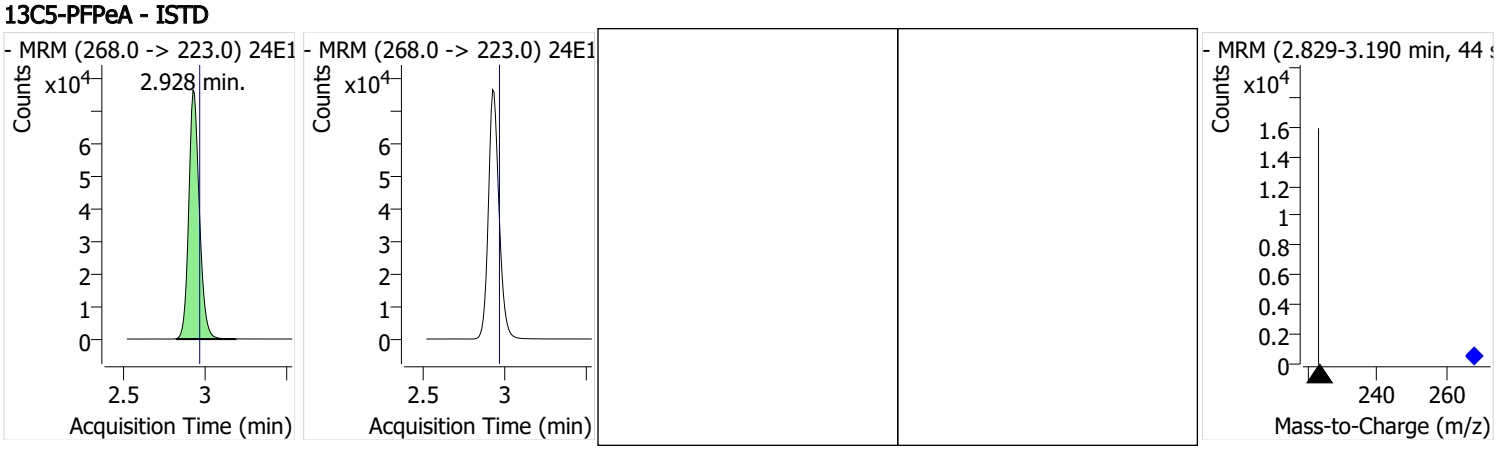
13C5-PFHxA - ISTD



13C5-PFNA

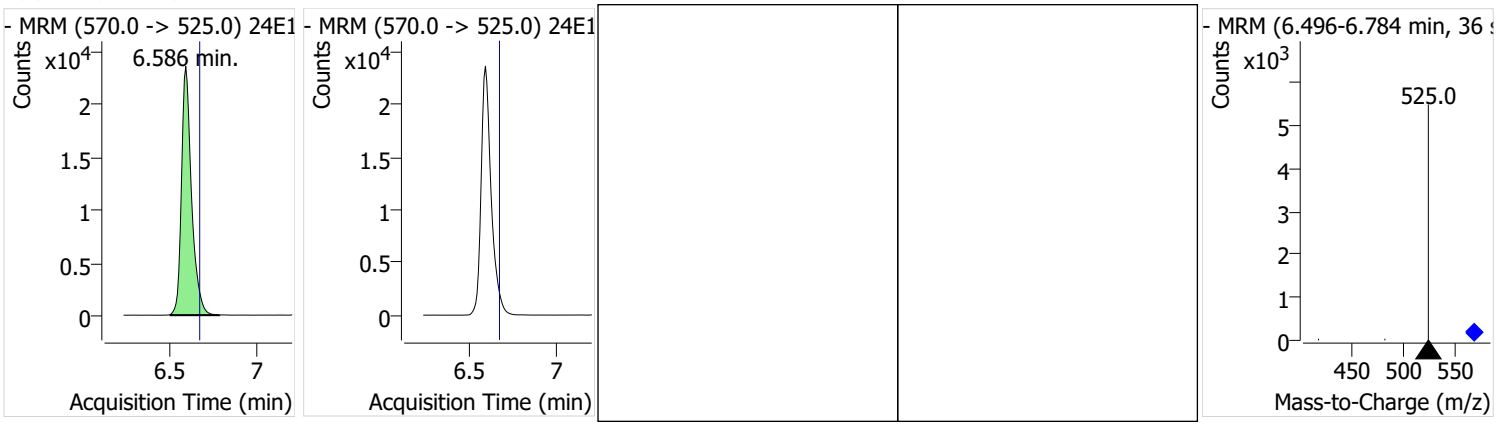


13C5-PFPeA - ISTD



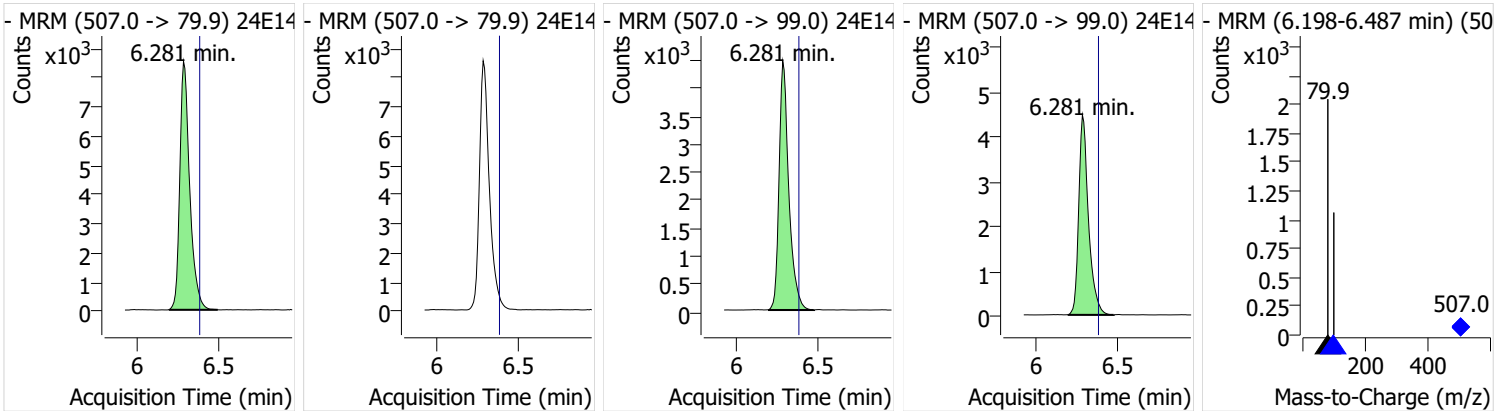
13C6-PFDA - ISTD

13C7-PFUnA - ISTD

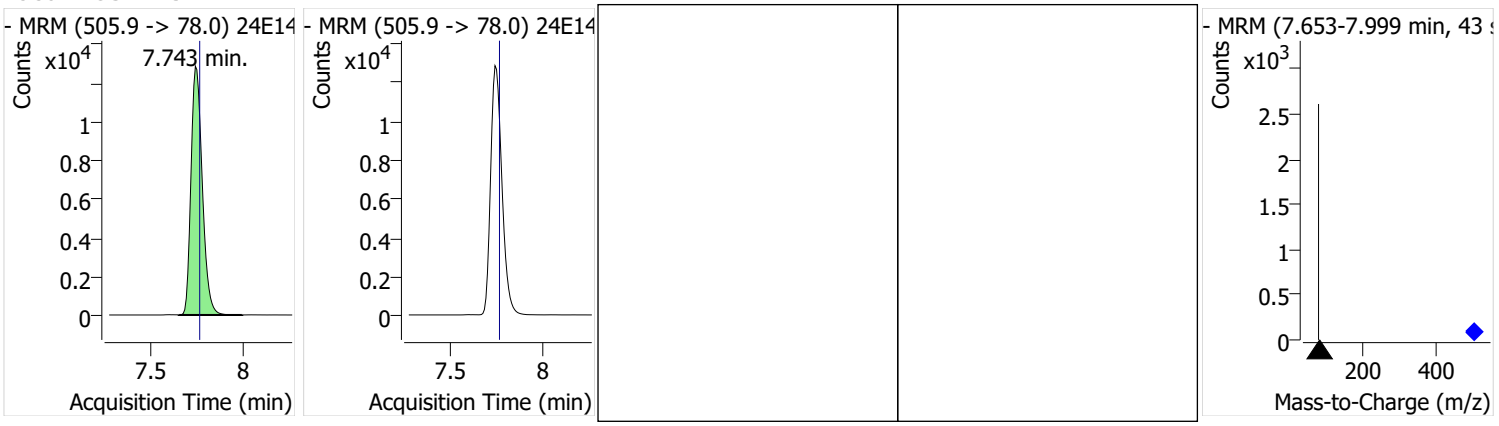


13C8-PFOA - ISTD

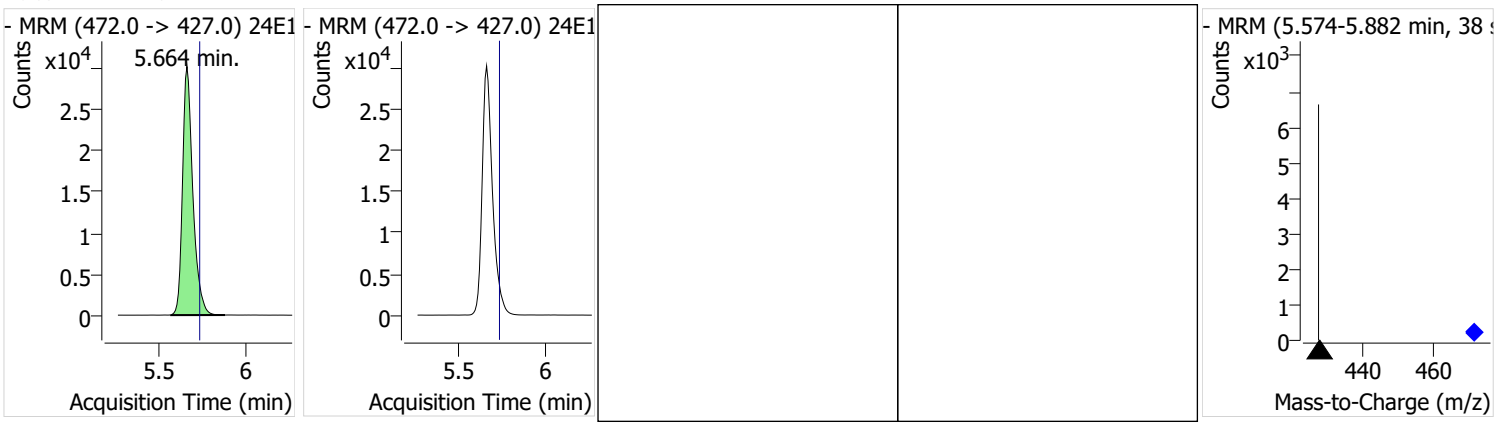
13C8-PFOS - ISTD



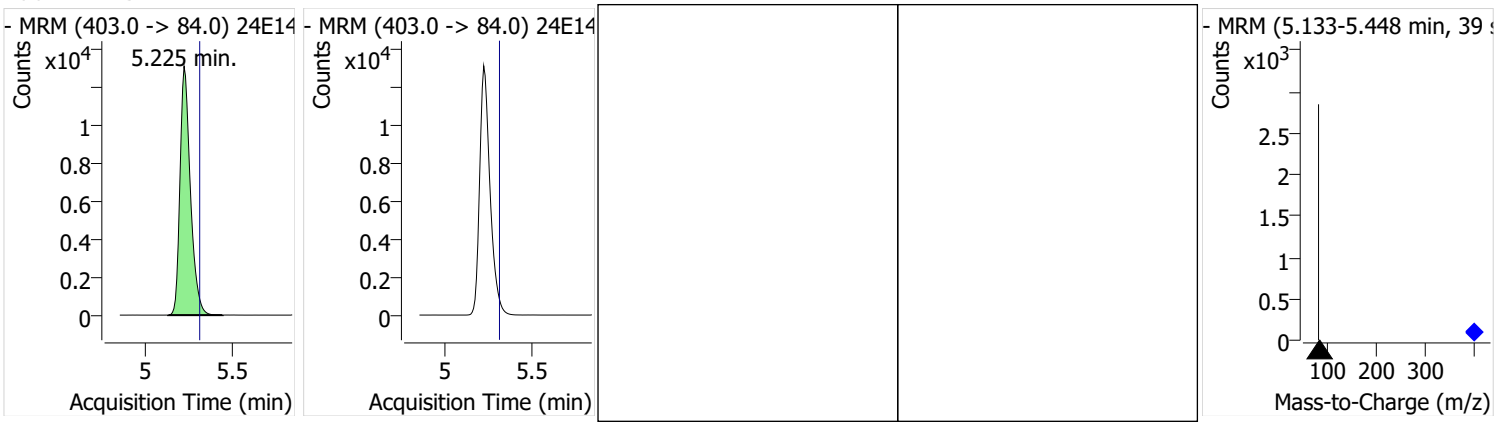
13C8-PFOSA - ISTD



13C9-PFNA - ISTD



18O2-PFHxS



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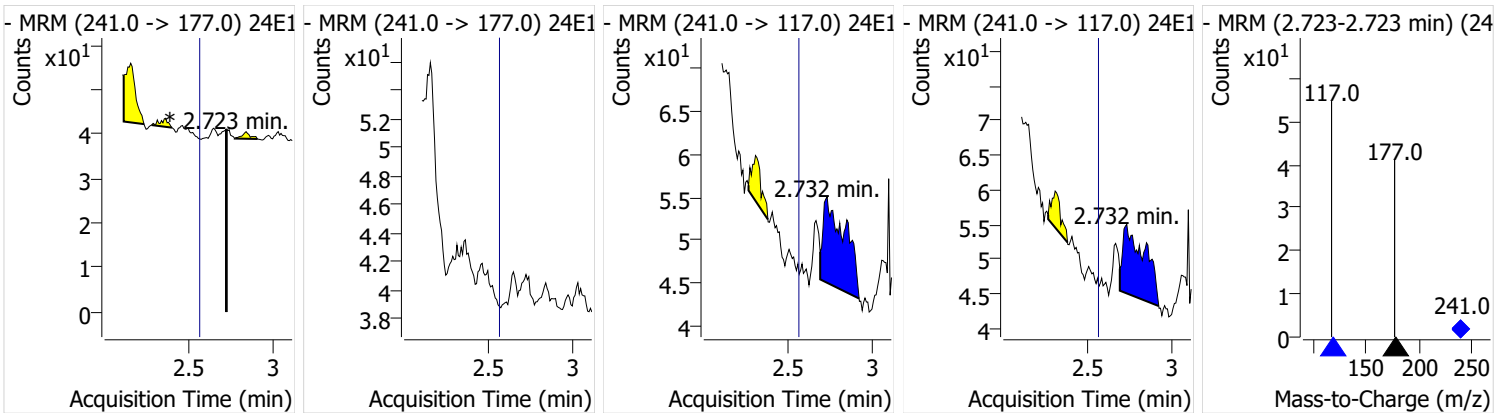
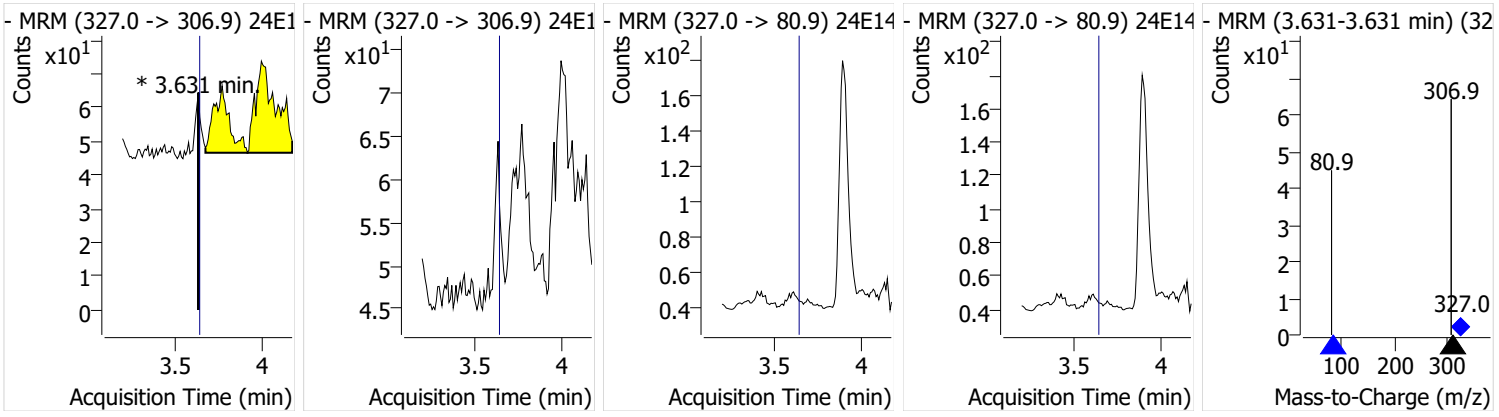
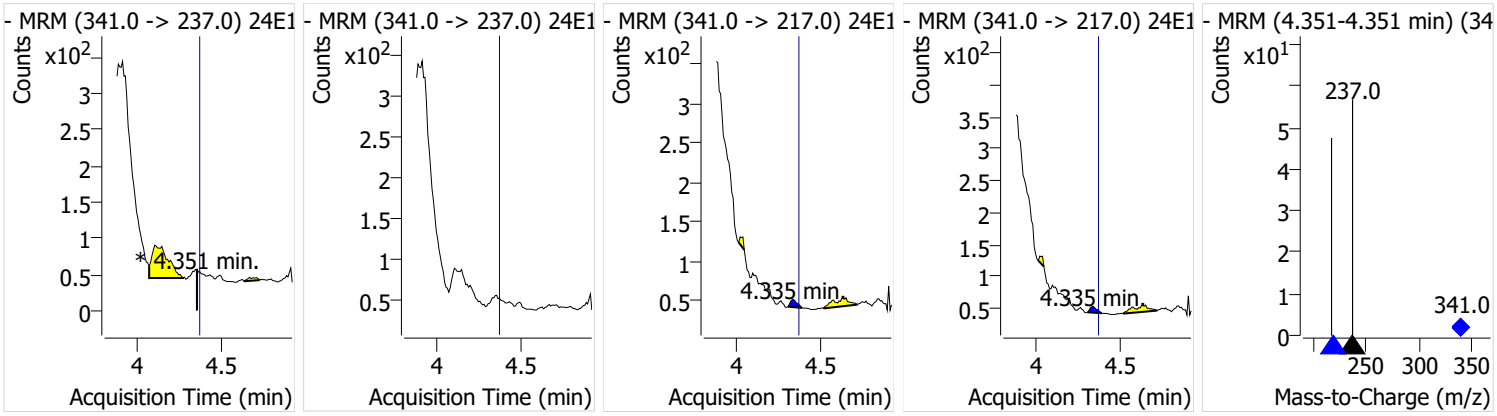


4:2FTS



5:3FTCA



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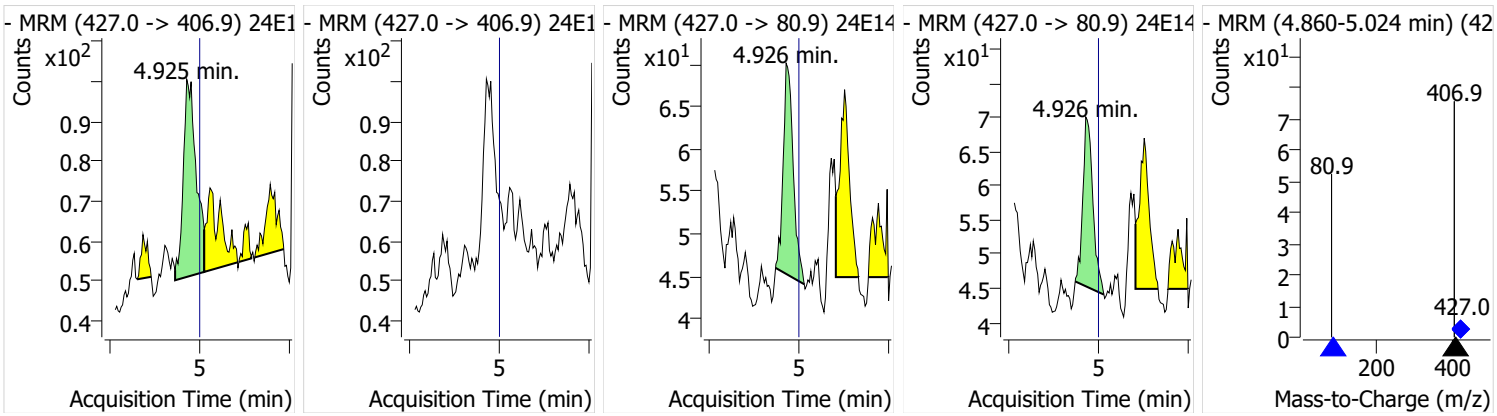

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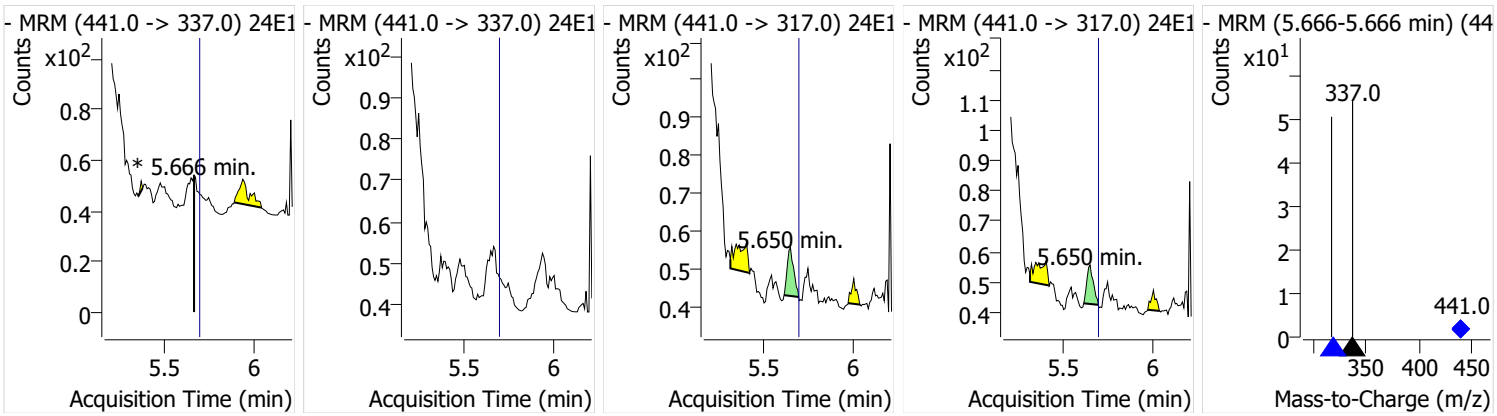
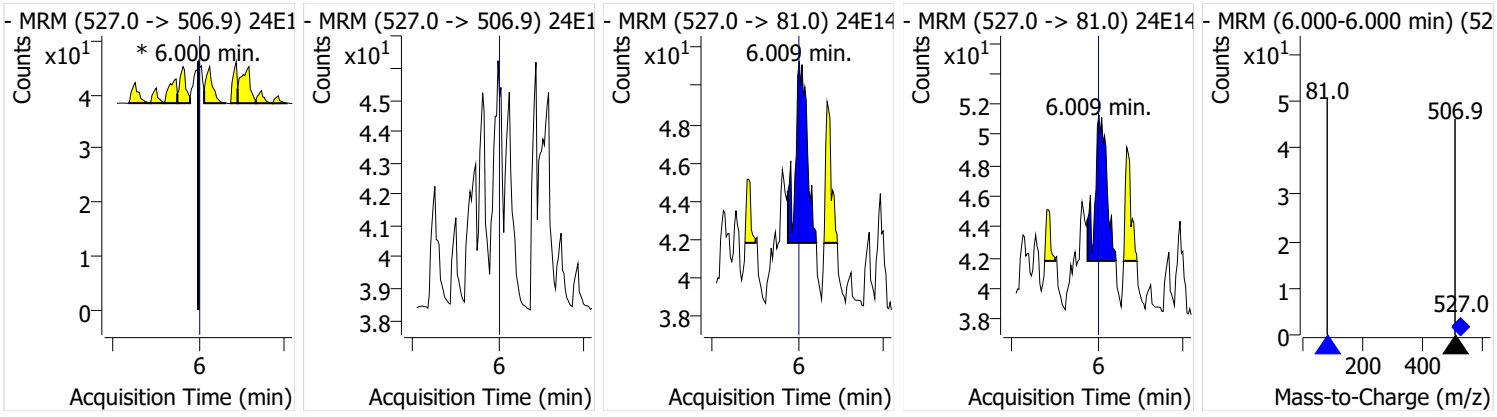


8:2FTS



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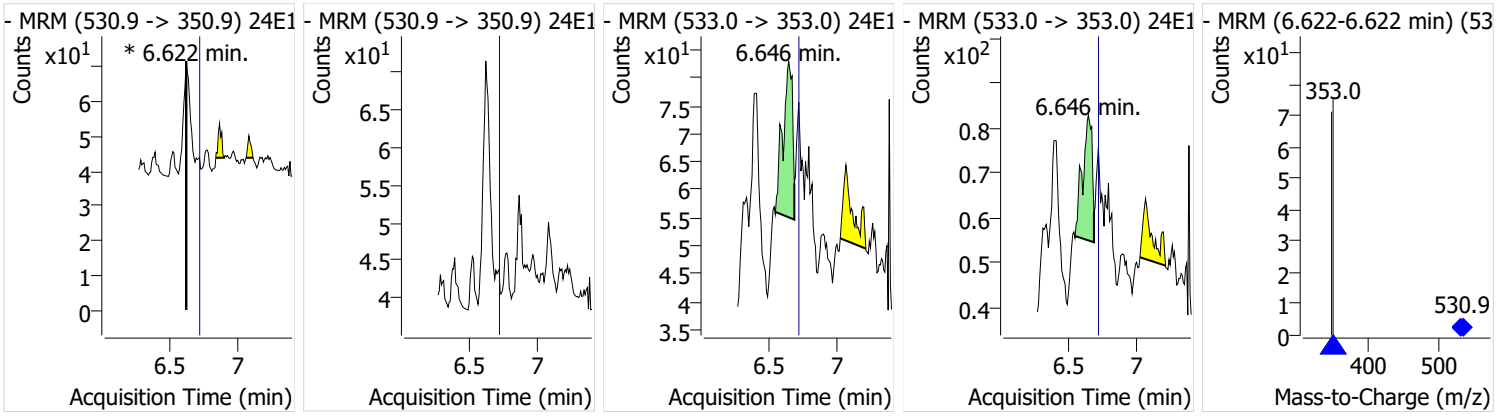

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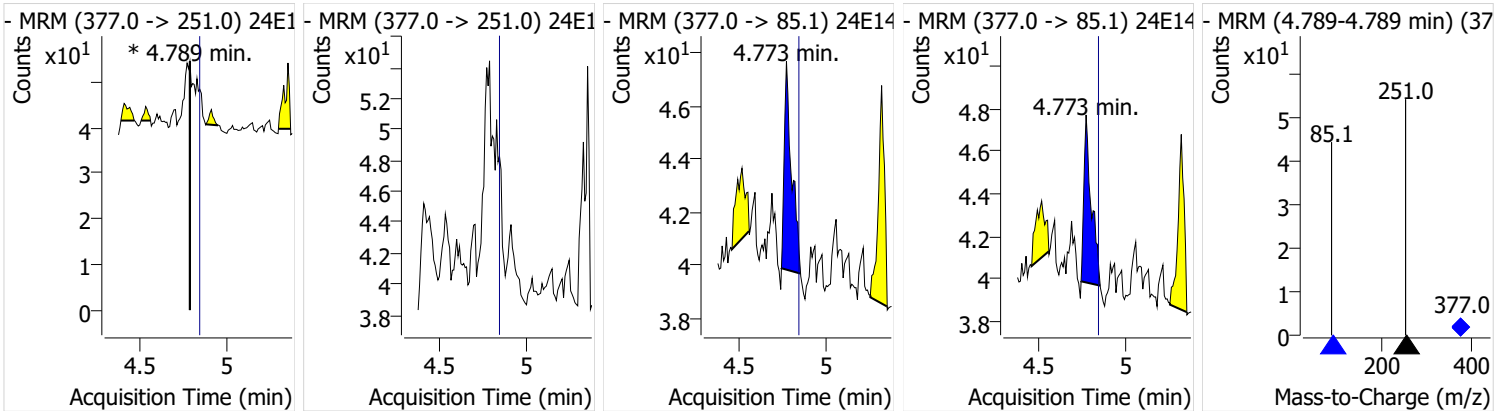
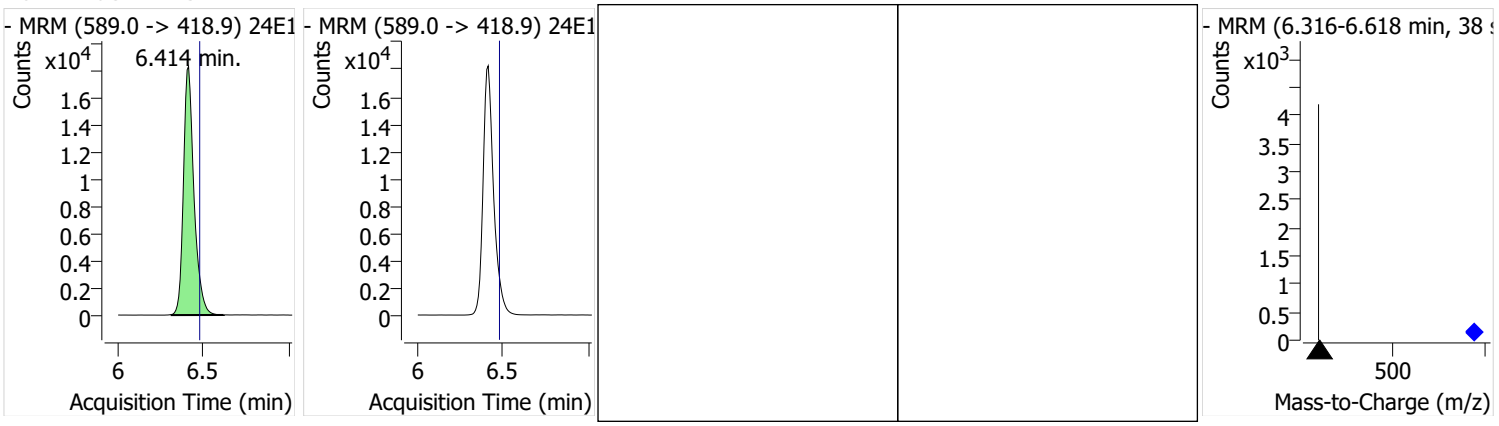


D3-NMeFOSA - ISTD

D3-NMeFOSAA - ISTD

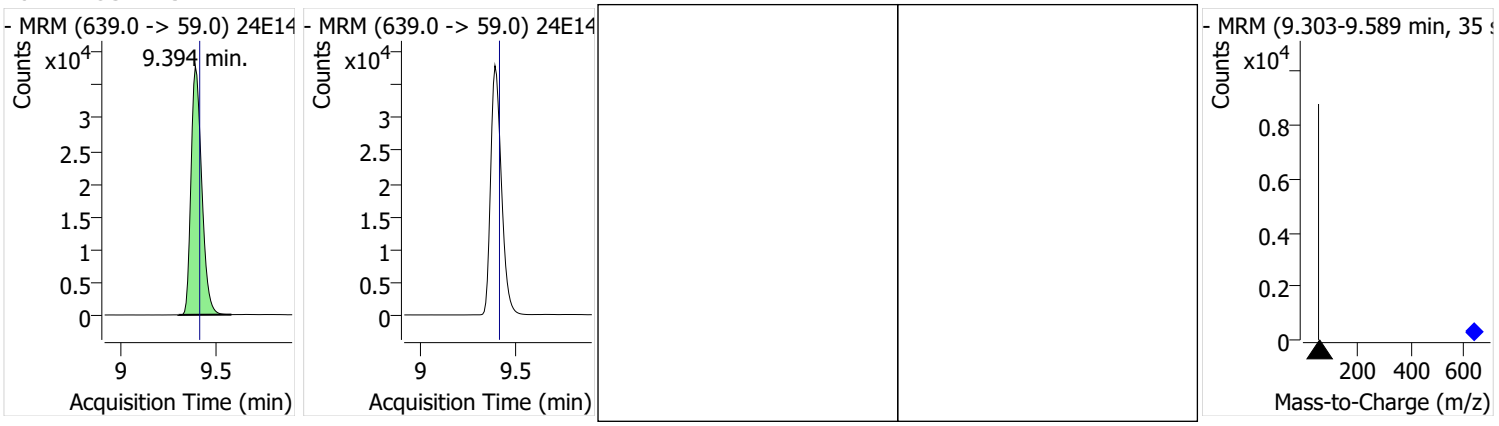
D5-NEtFOSA - ISTD

D5-NEtFOSAA - ISTD

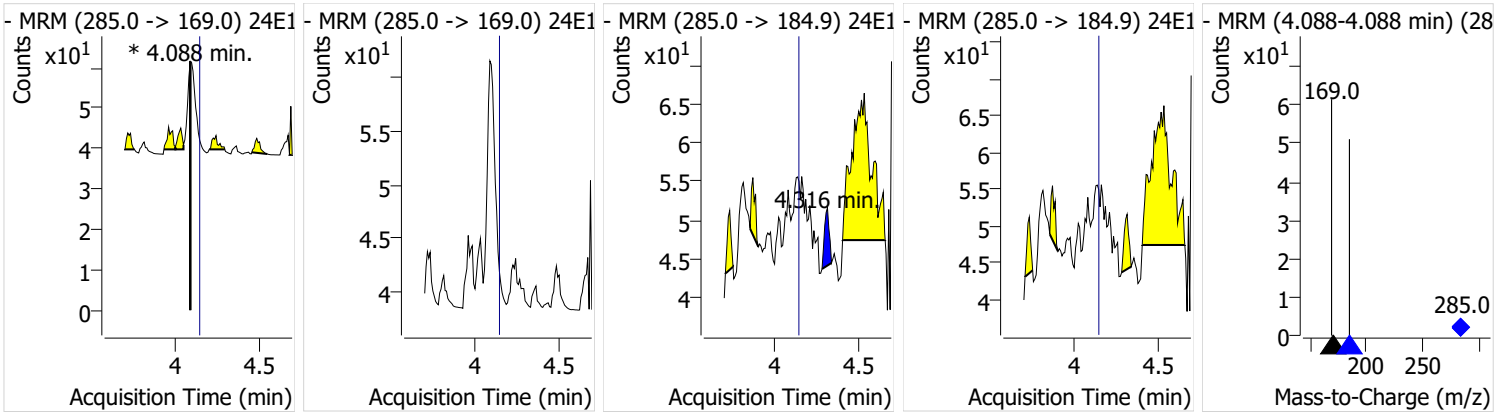


D7-NMeFOSE - ISTD

D9-NEtFOSE - ISTD



HFPO-DA



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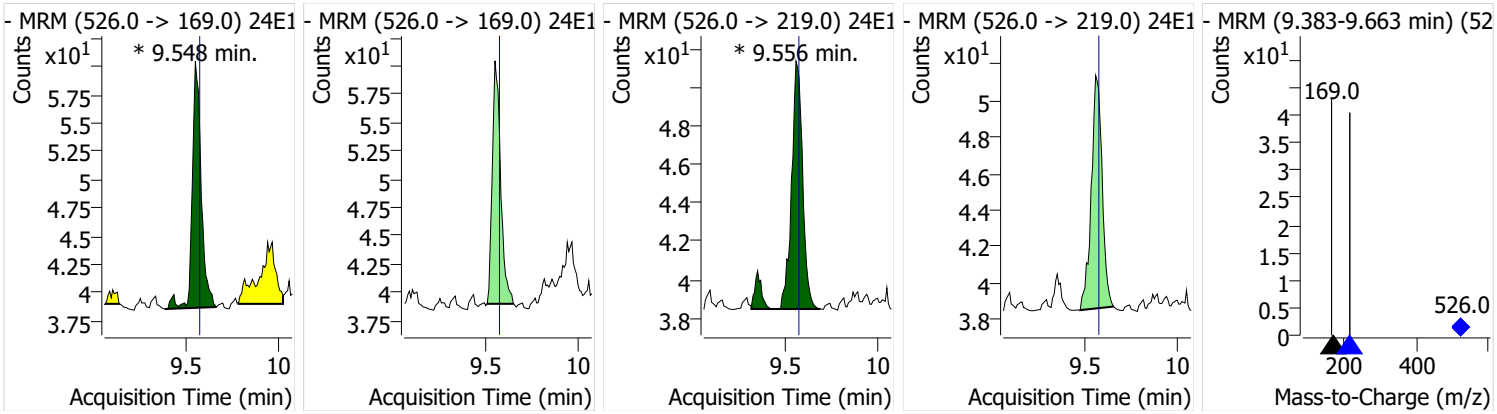

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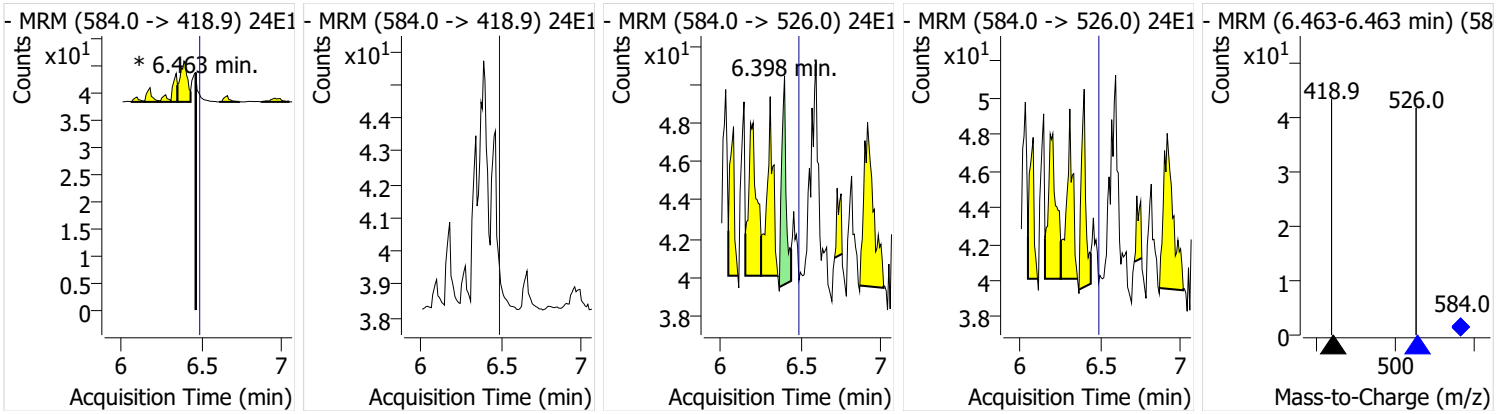

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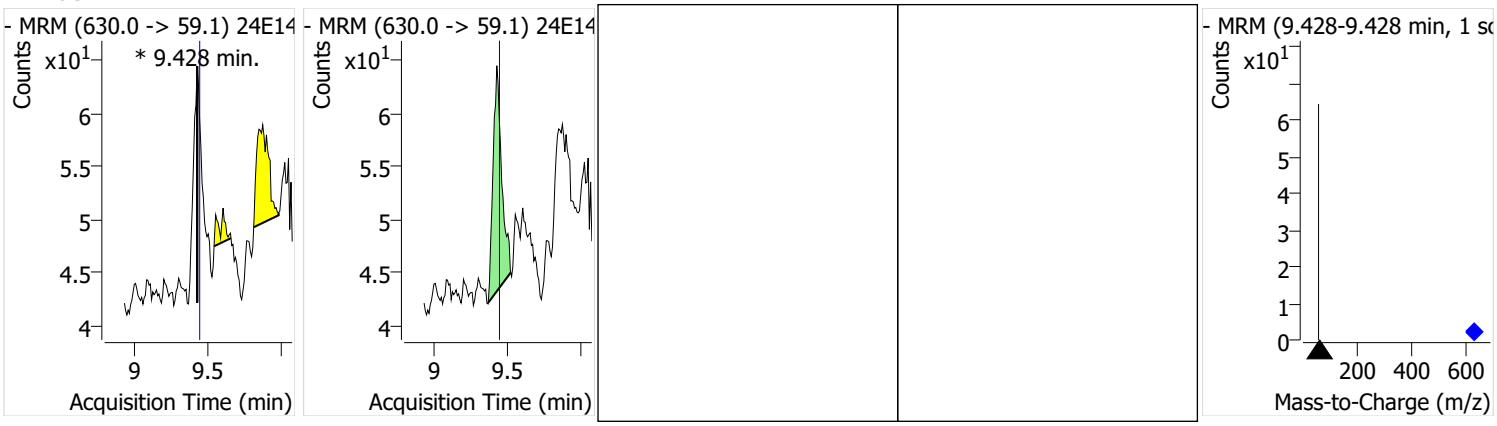

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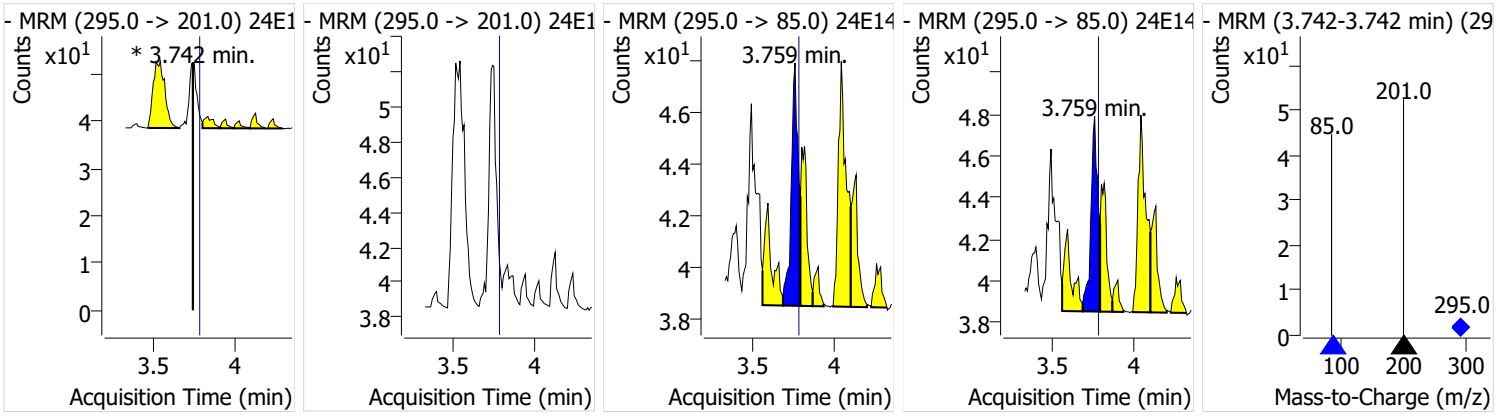

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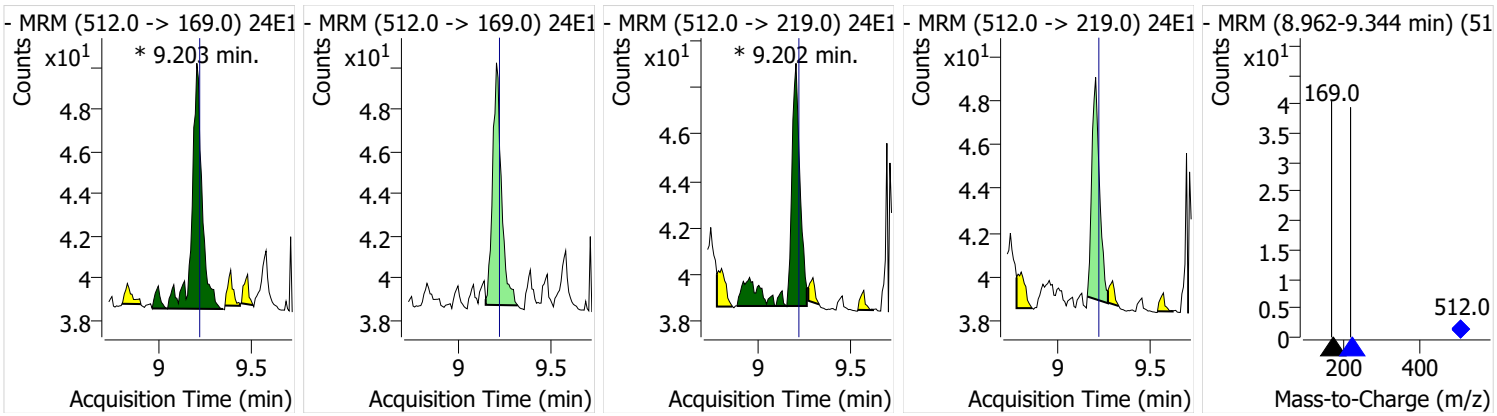

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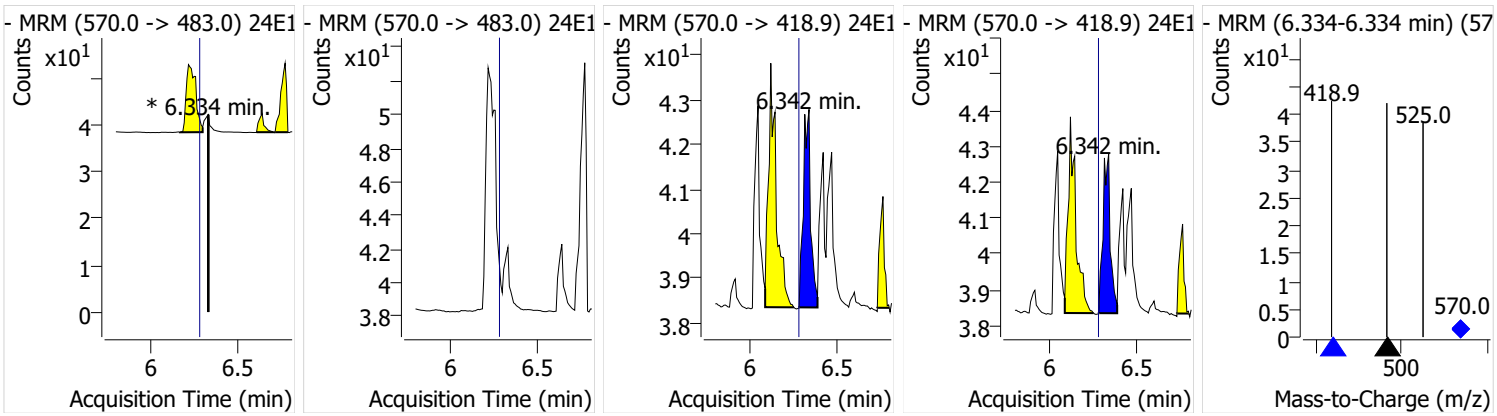

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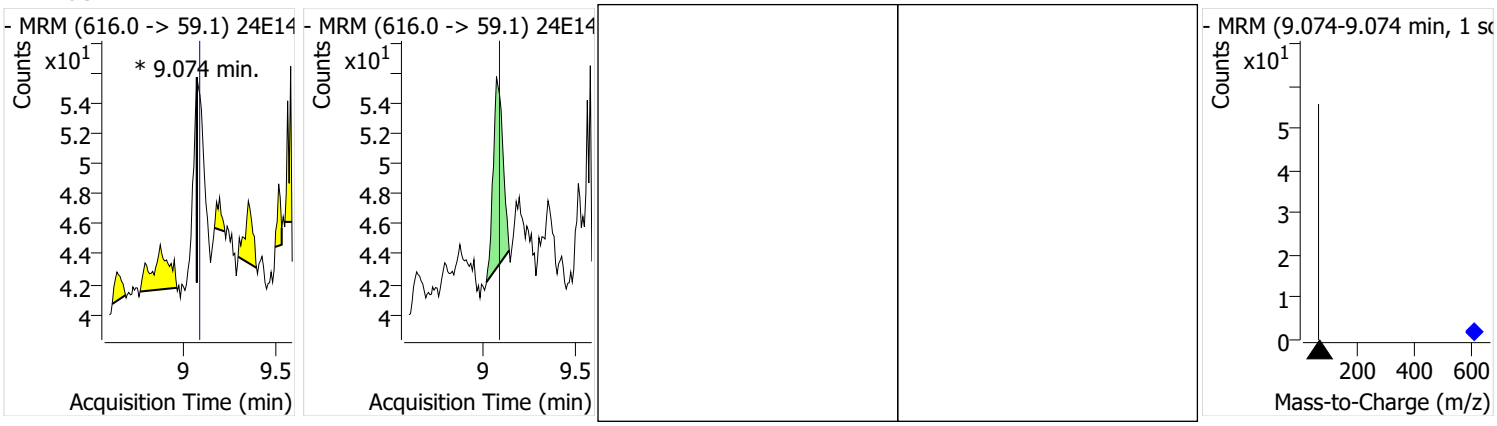
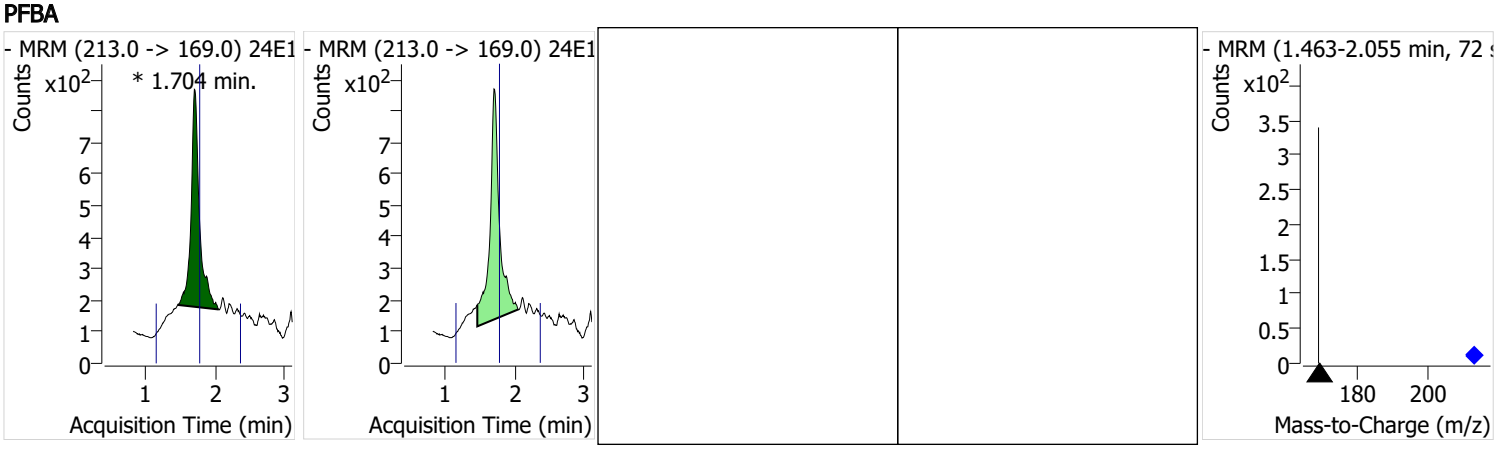


PFBA



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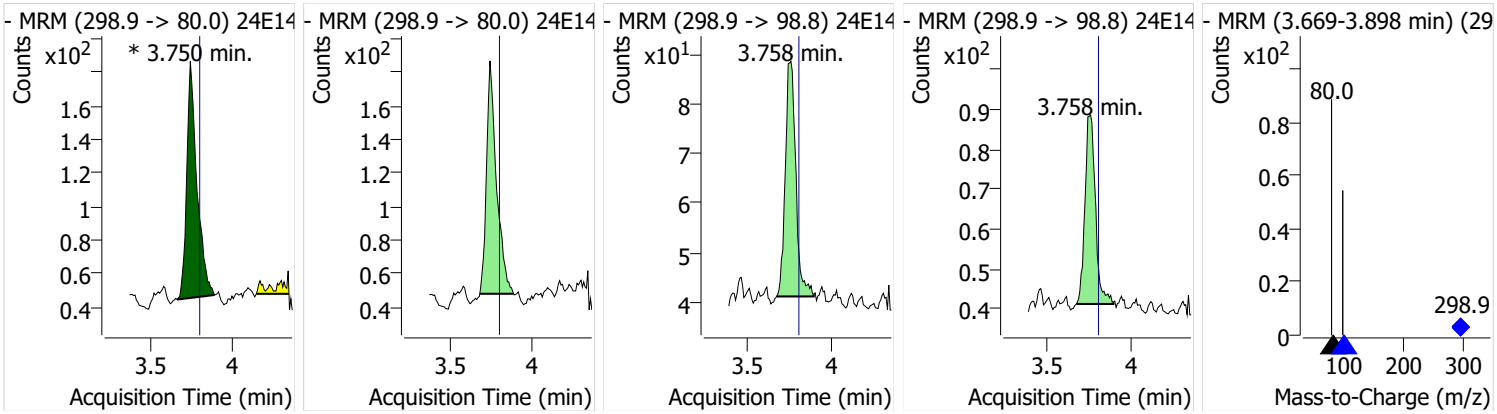

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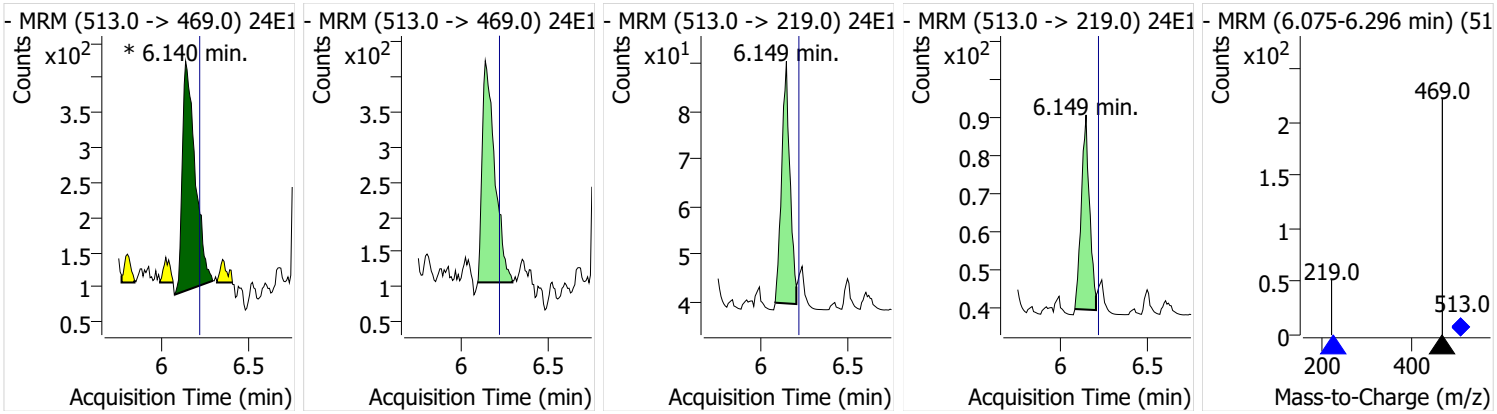
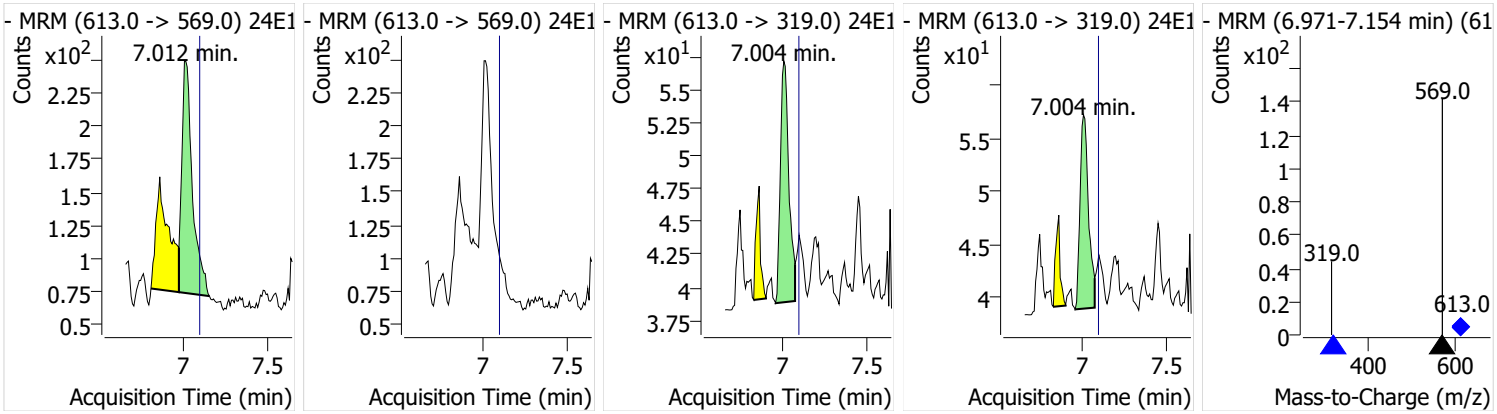
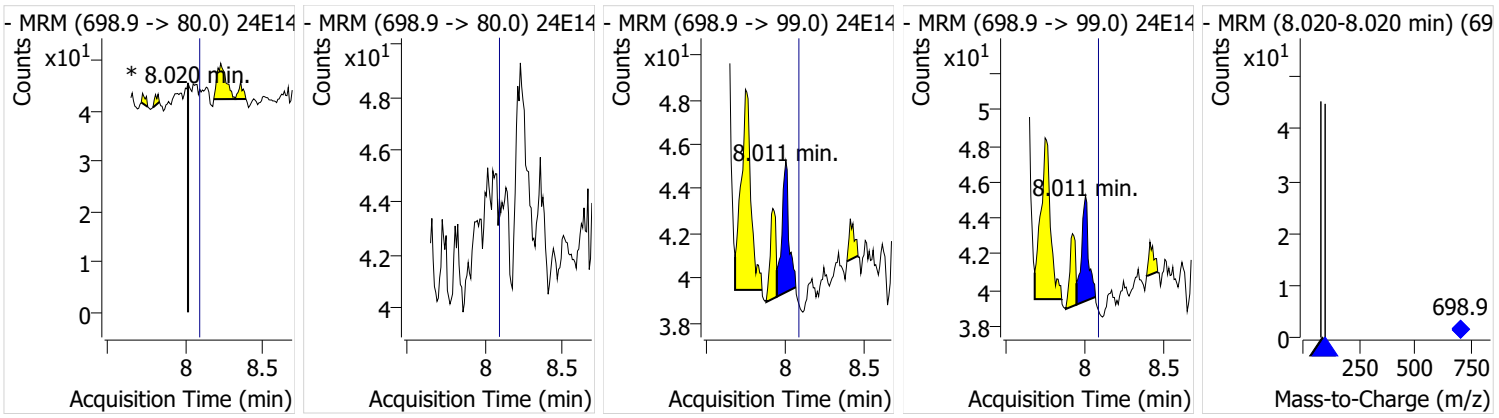


PFDoA



PFDoS



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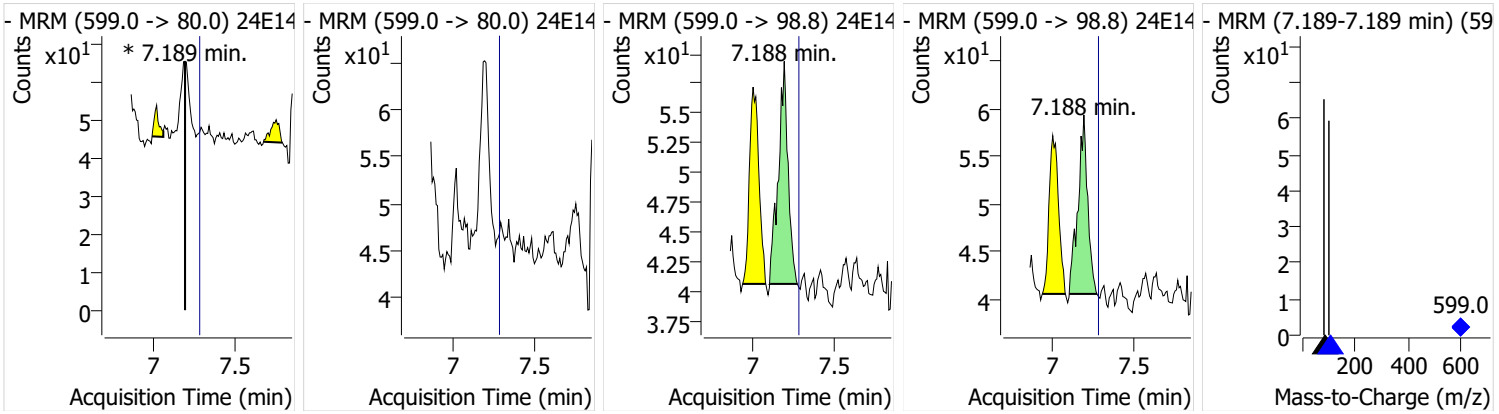
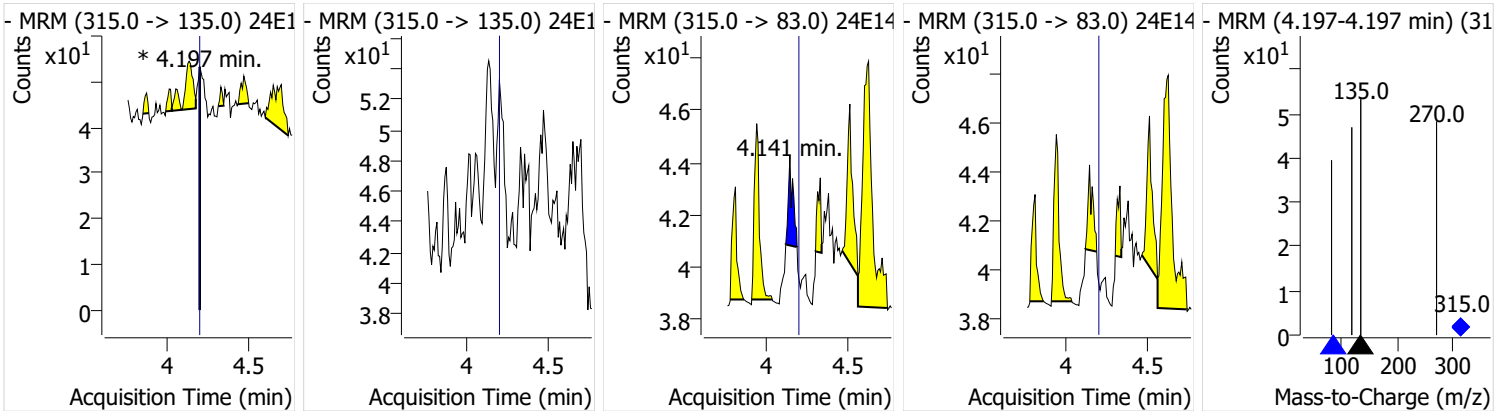
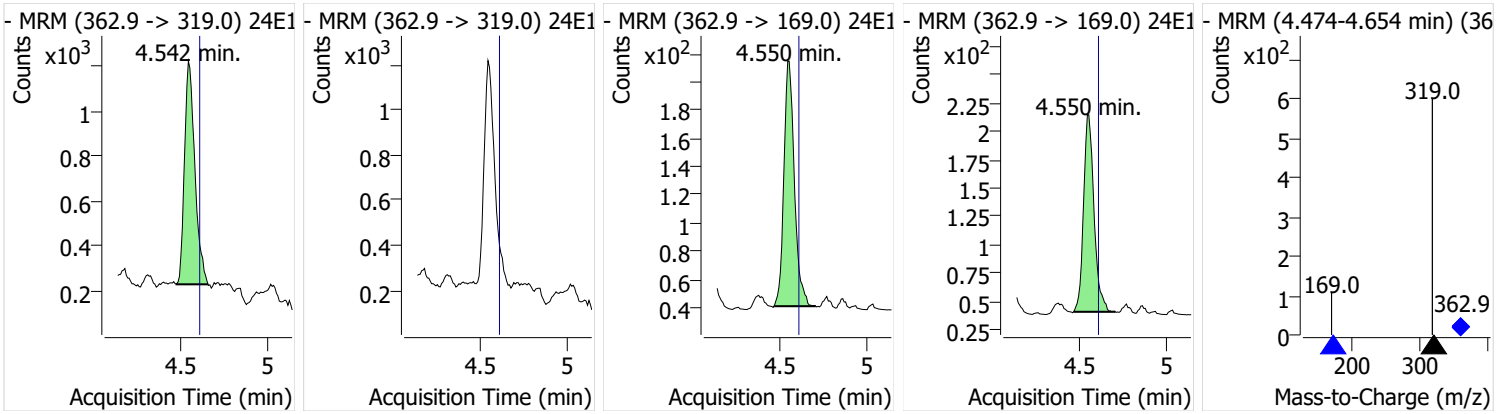


PFEESA



PFHpA



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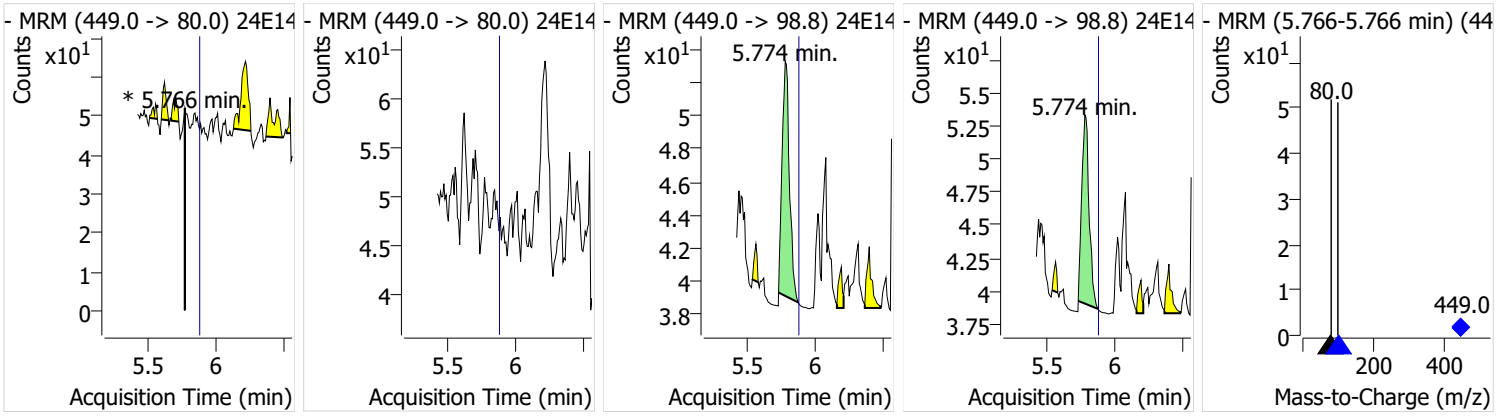

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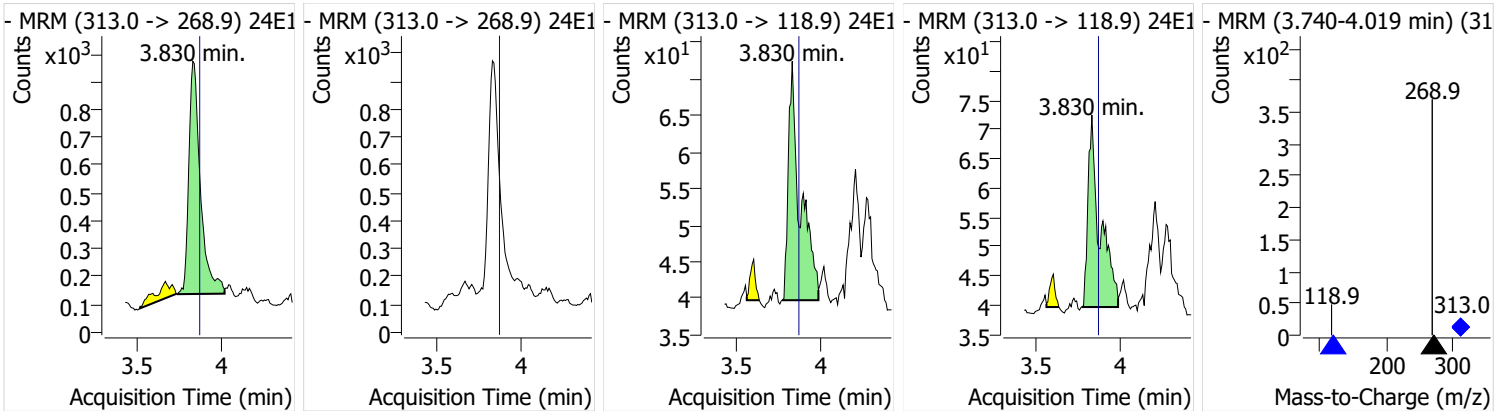
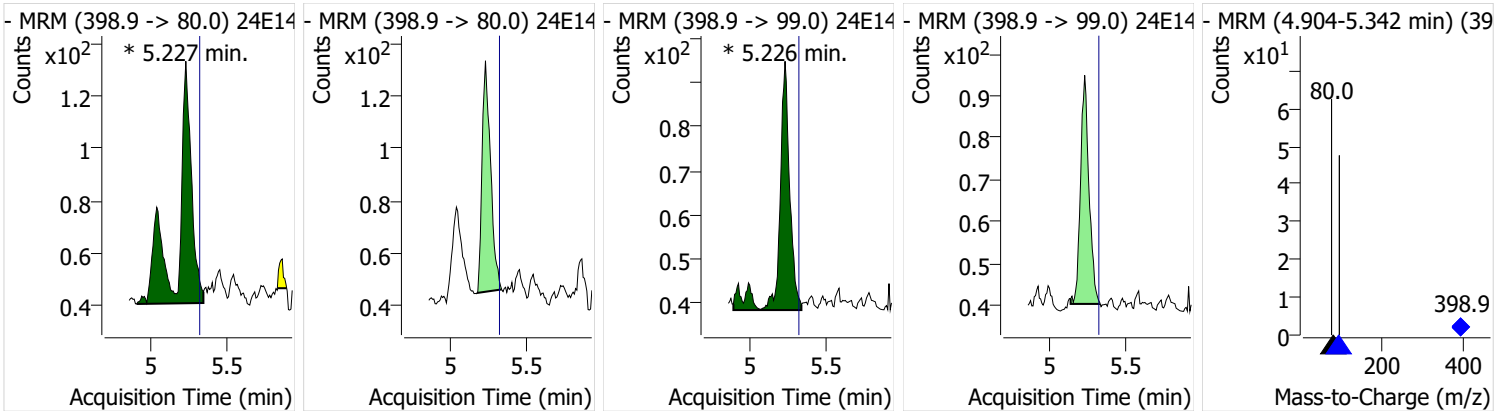


PFHxS



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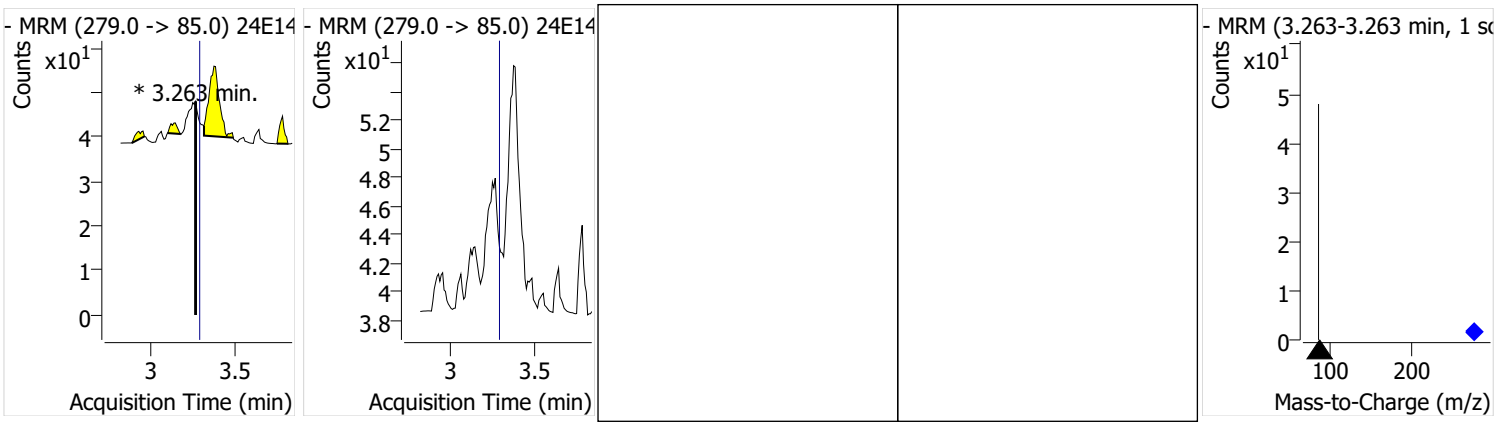

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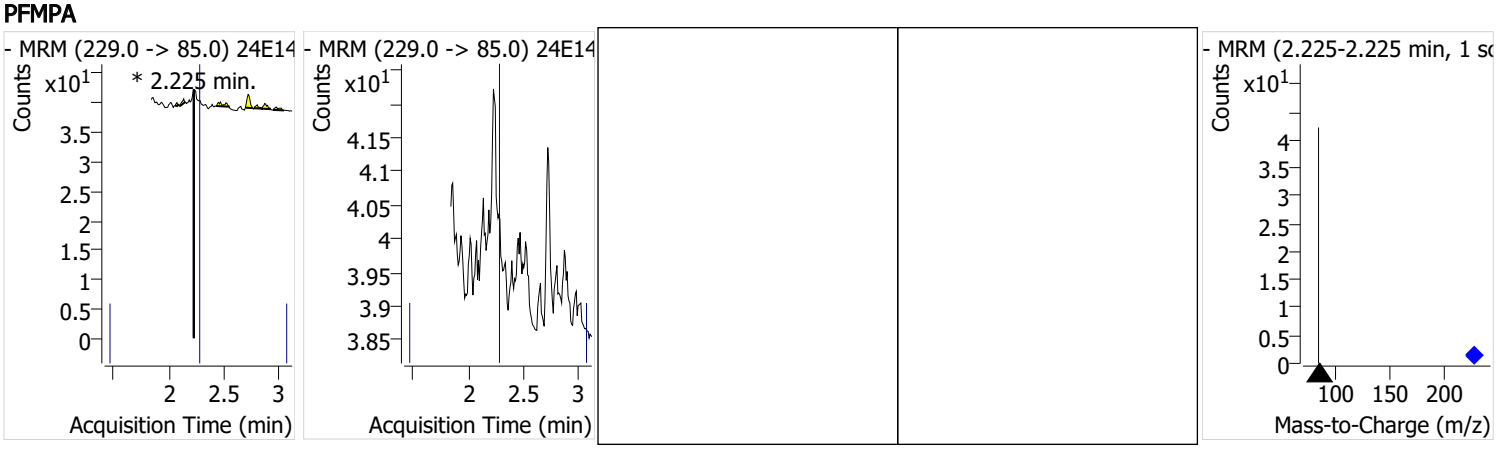

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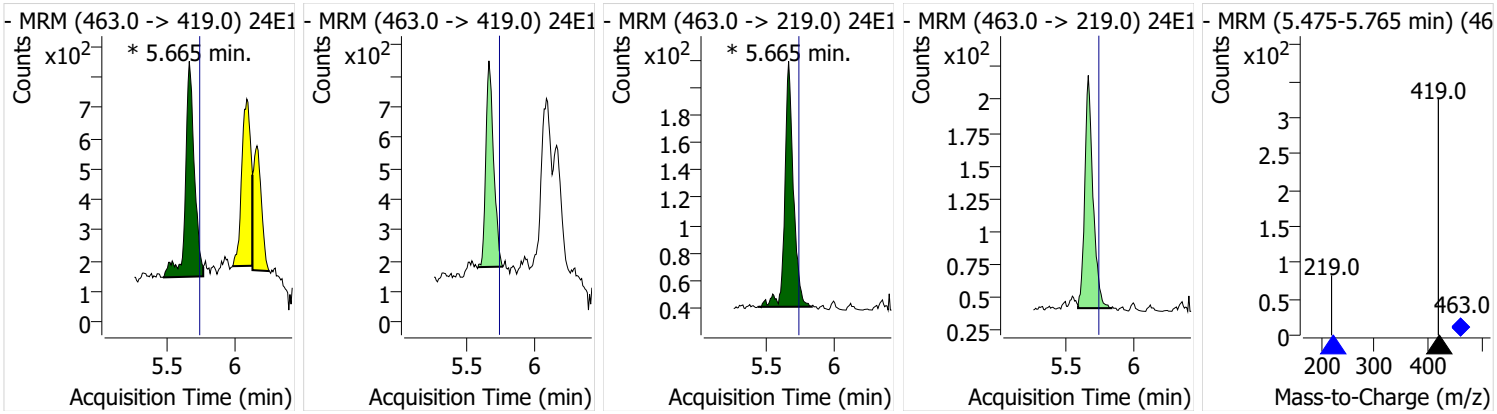

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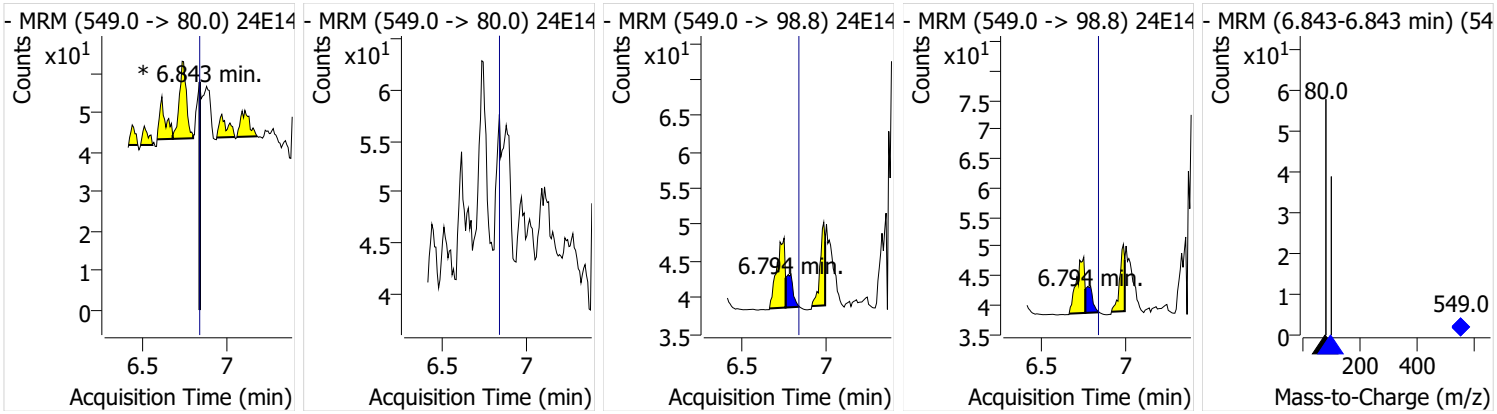
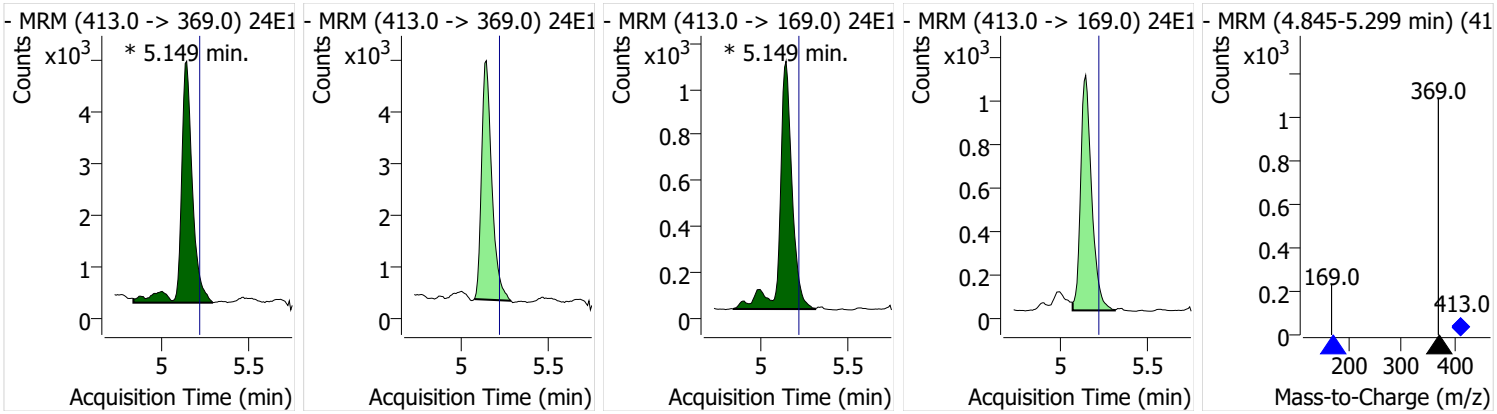


PFOA



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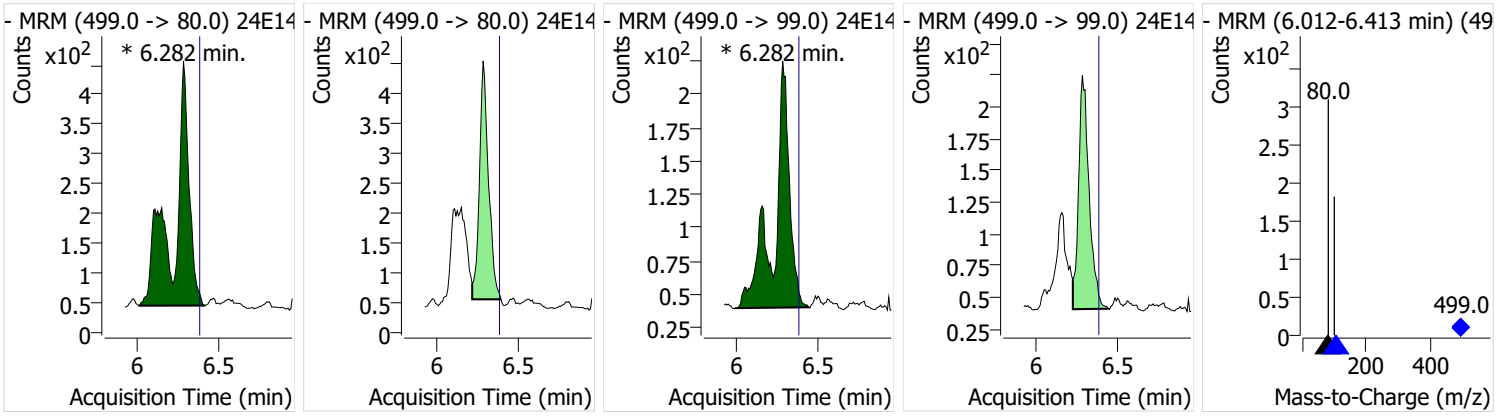

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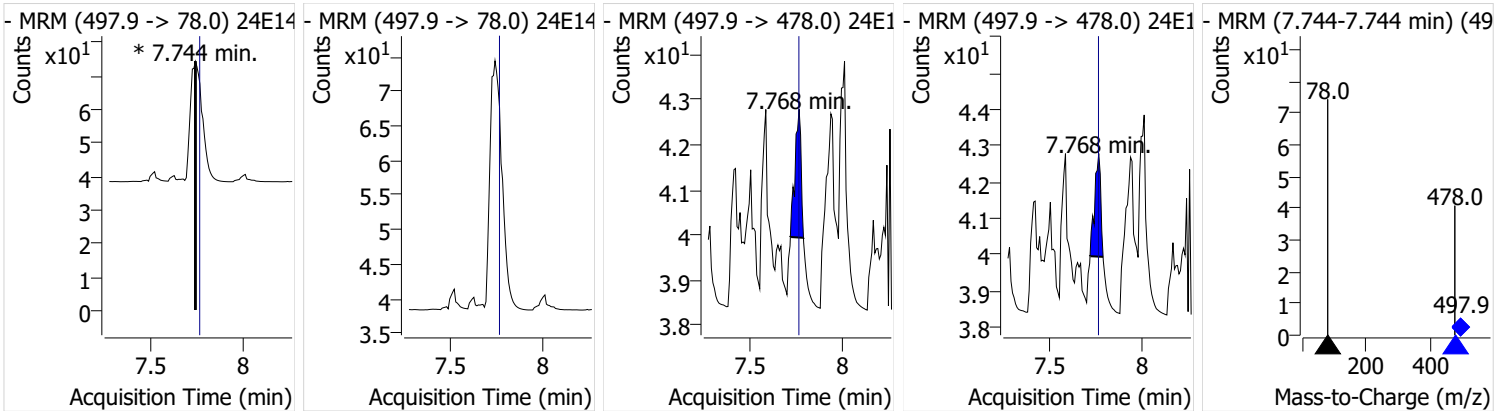

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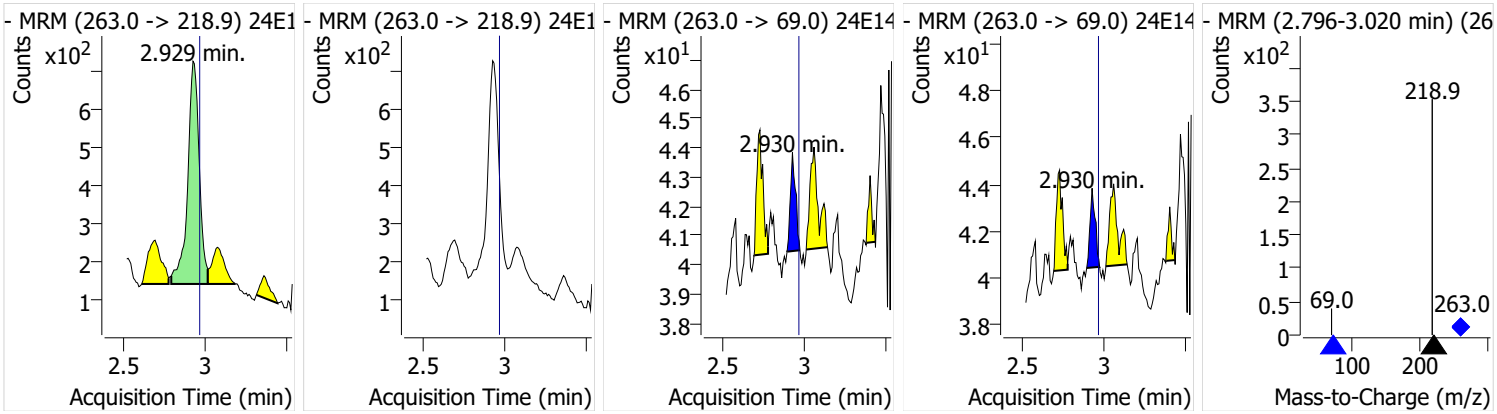

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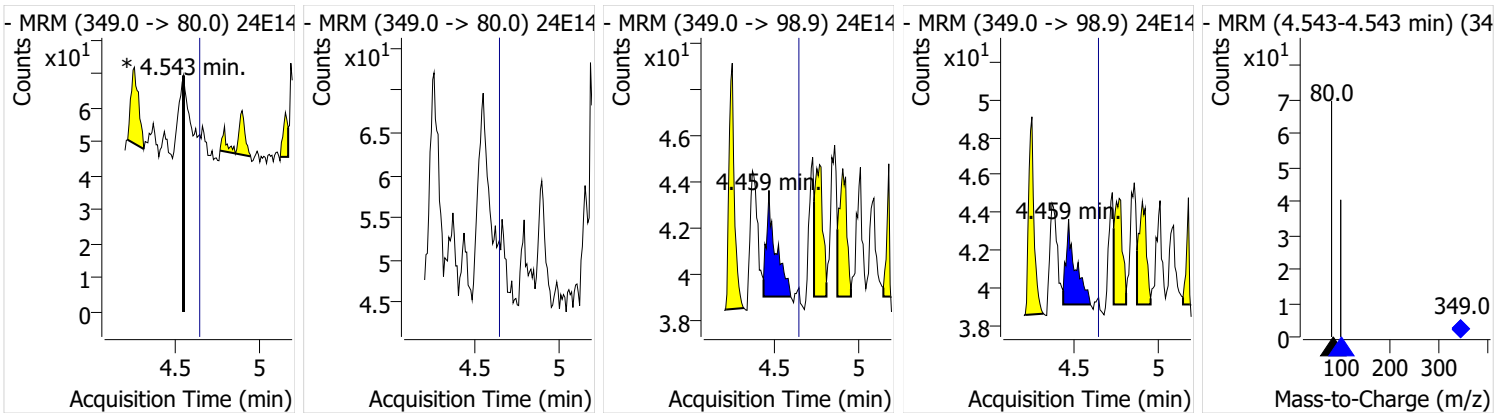
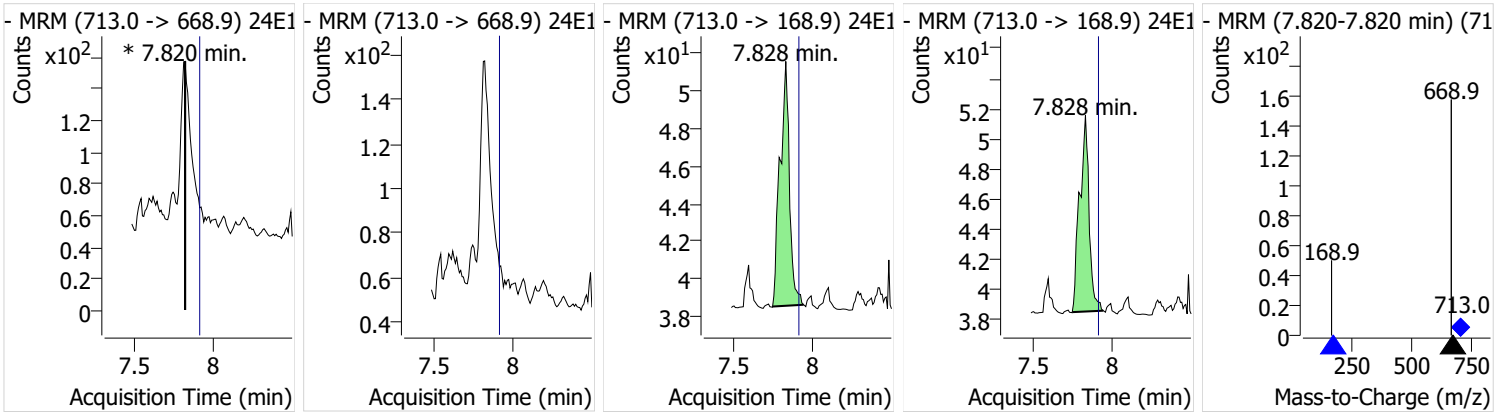
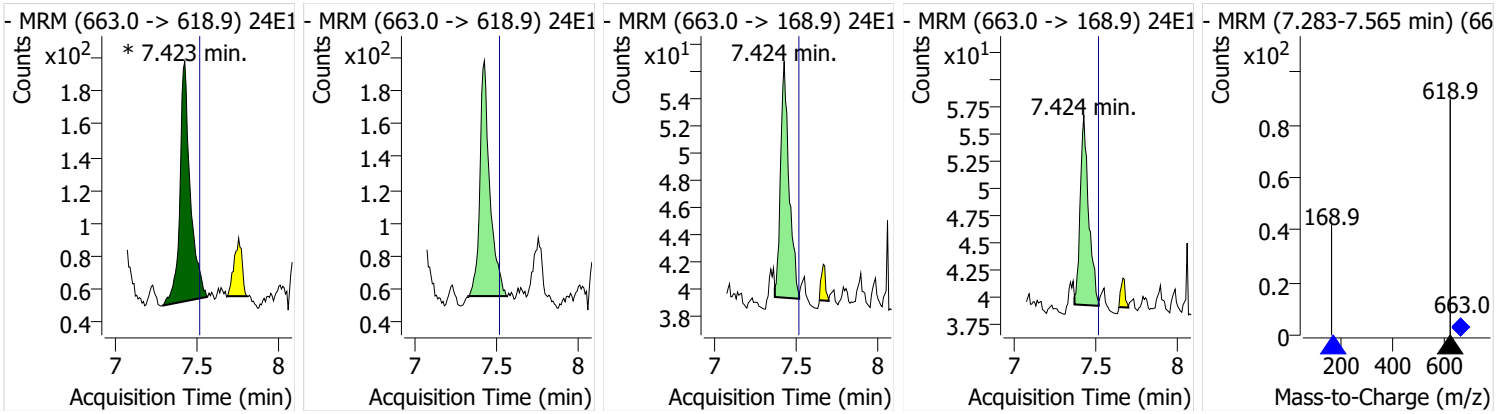


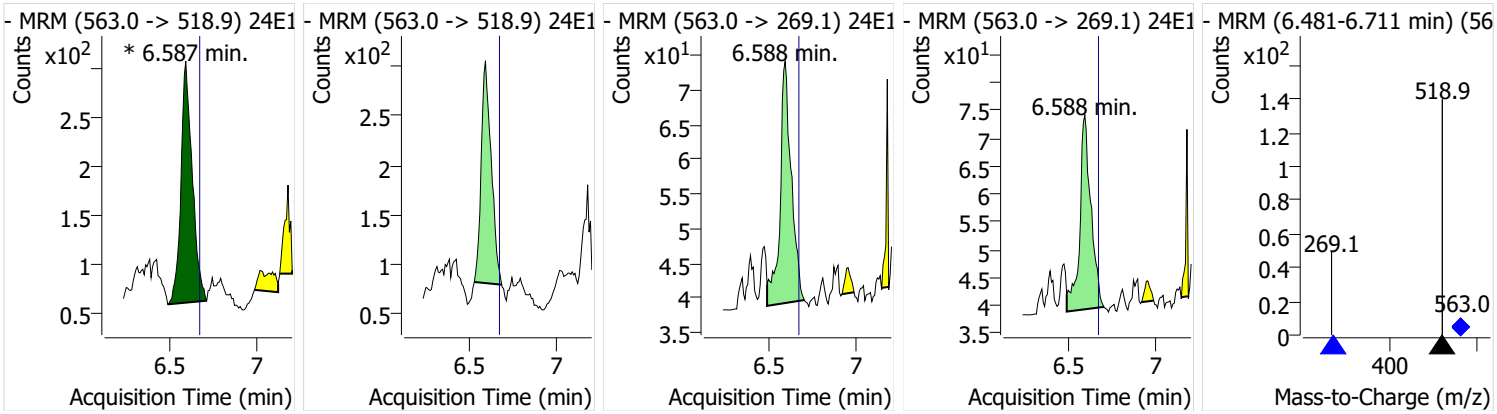
PFTeDA



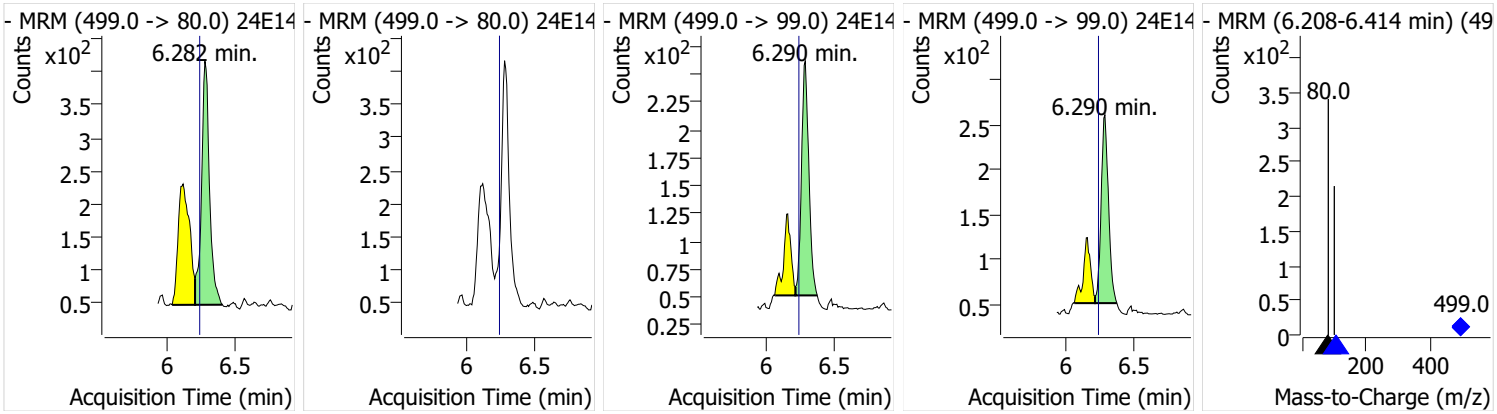
PFTrDA



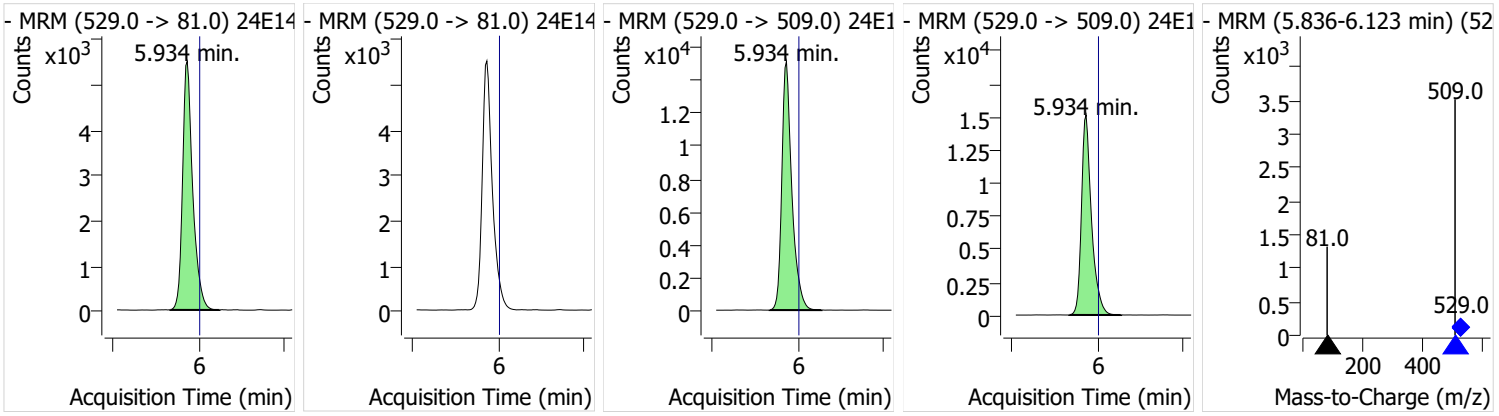
PFUnA



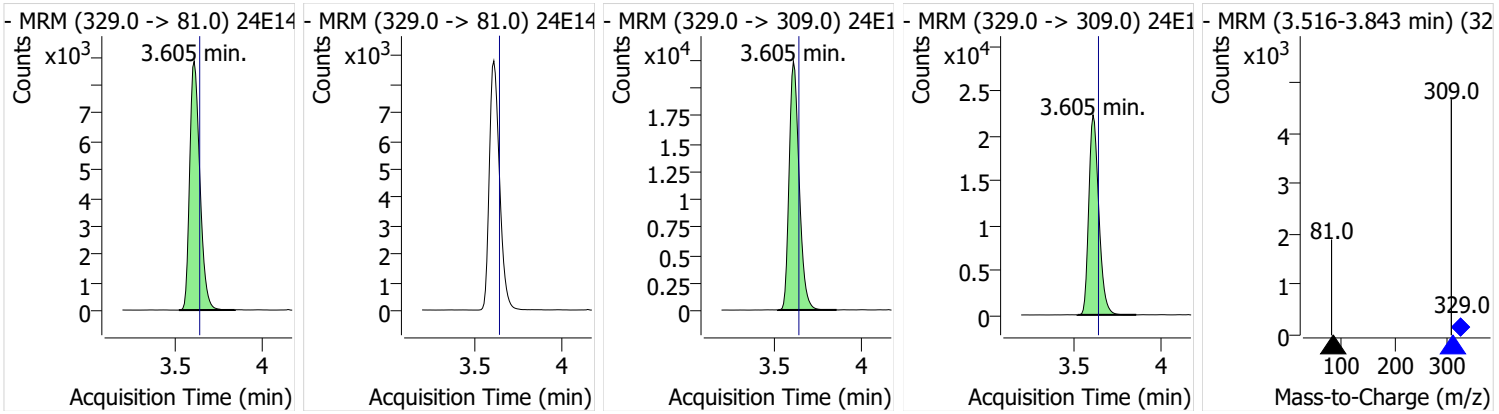
TDCA



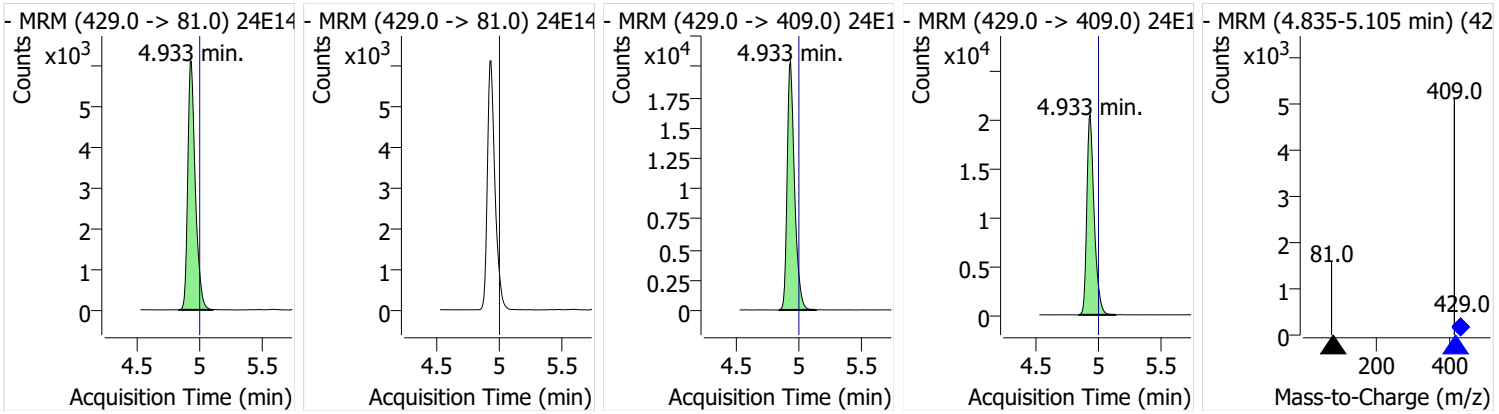
13C2-8:2FTS



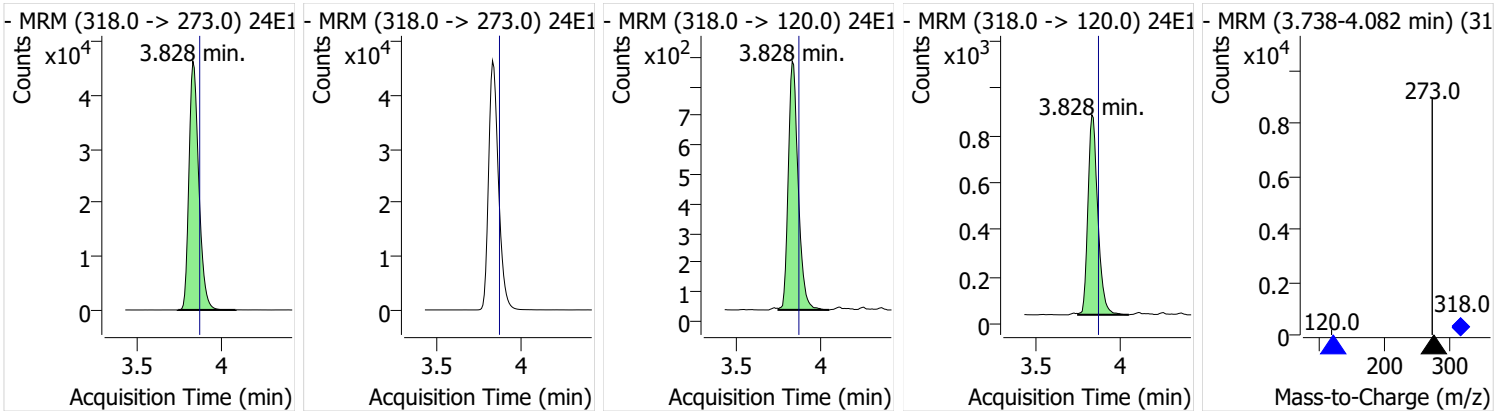
13C2-4:2FTS



13C2-6:2FTS

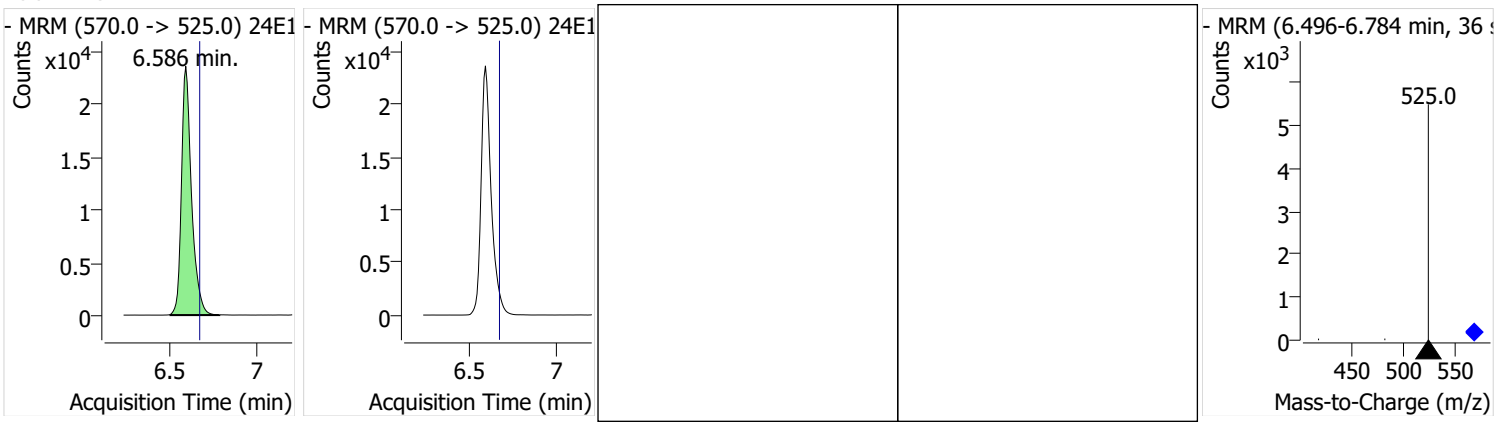


13C5-PFHxA



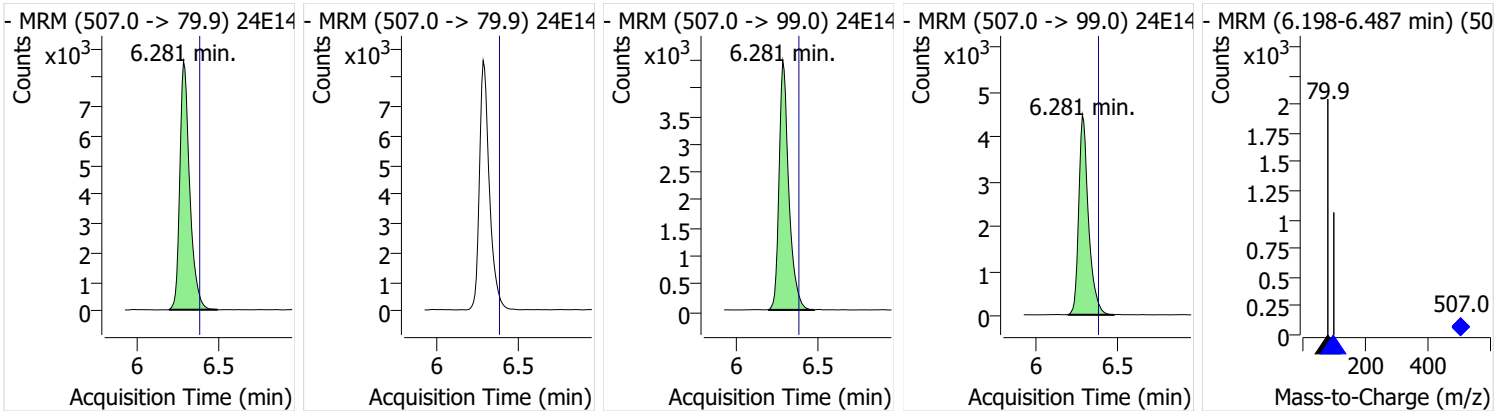
13C6-PFDA

13C7-PFUnA



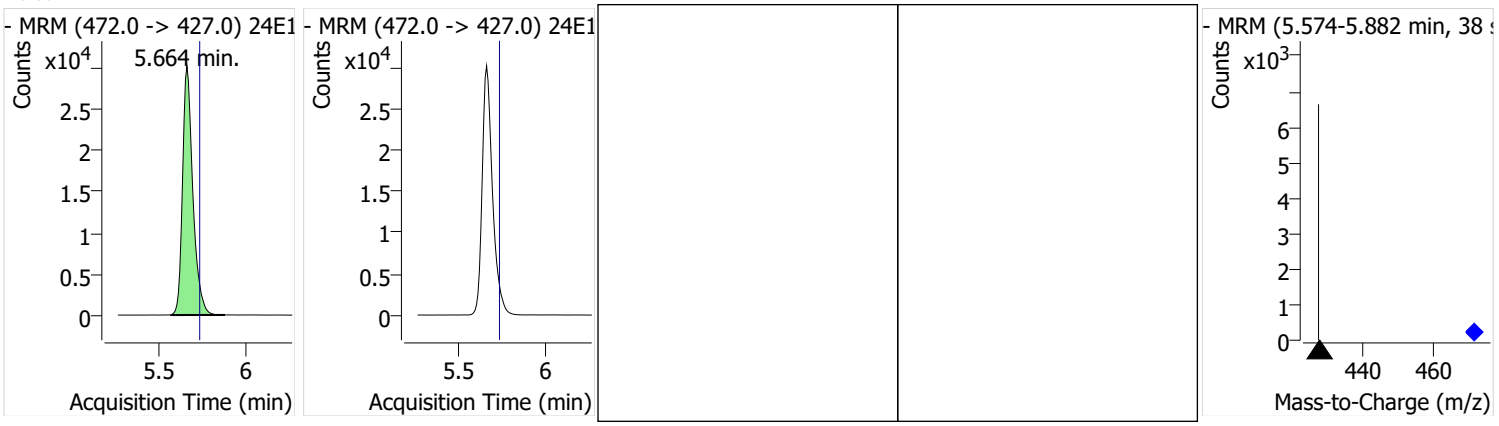
13C8-PFOA

13C8-PFOS

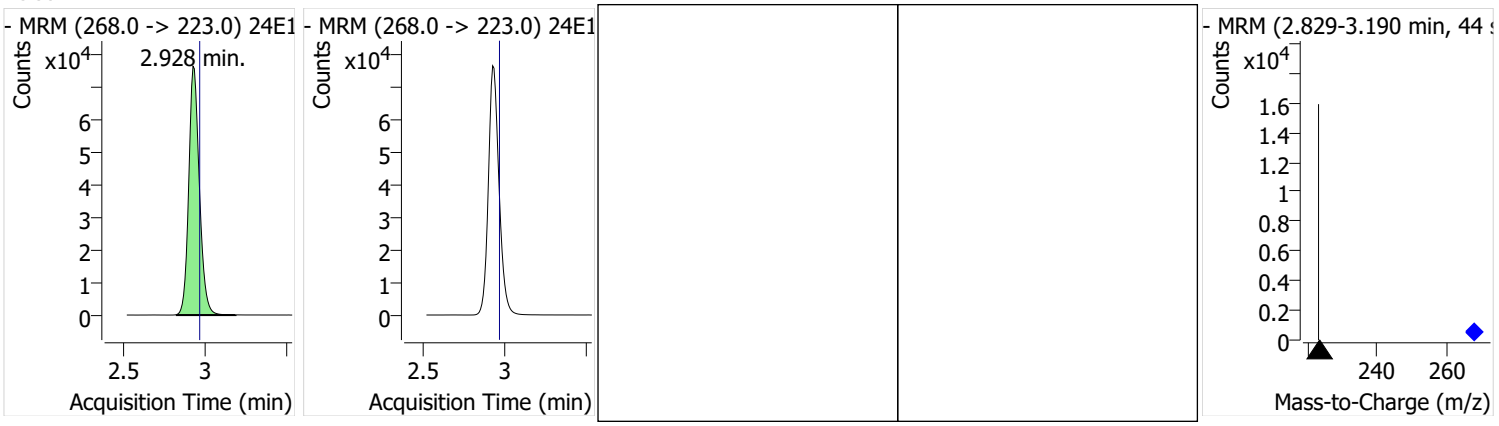


13C8-PFOSA

13C9-PFNA

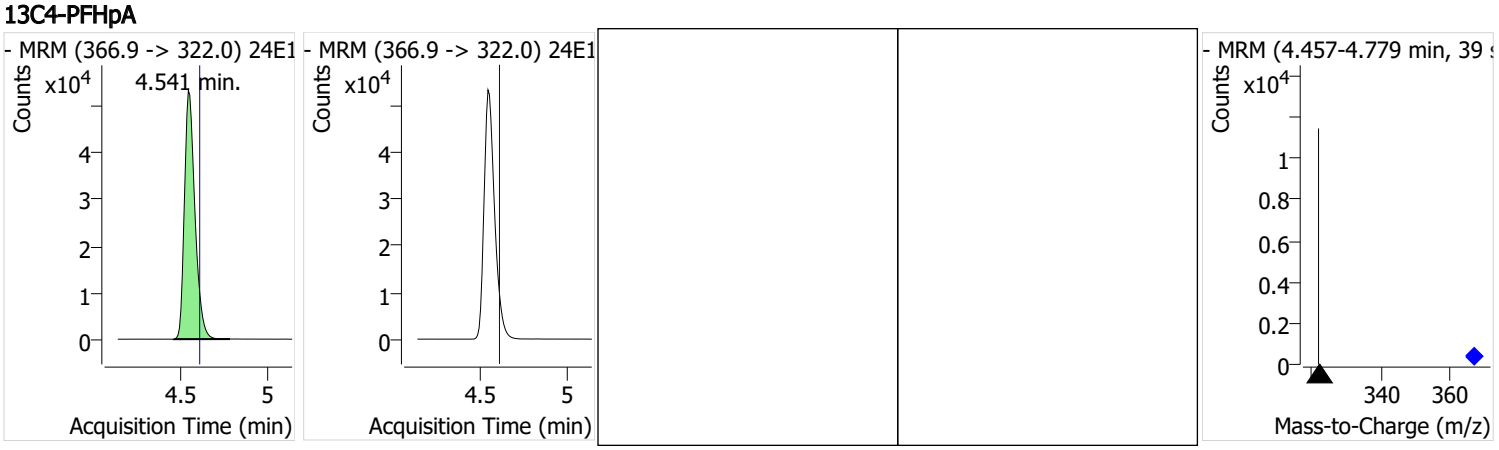


13C5-PFPeA

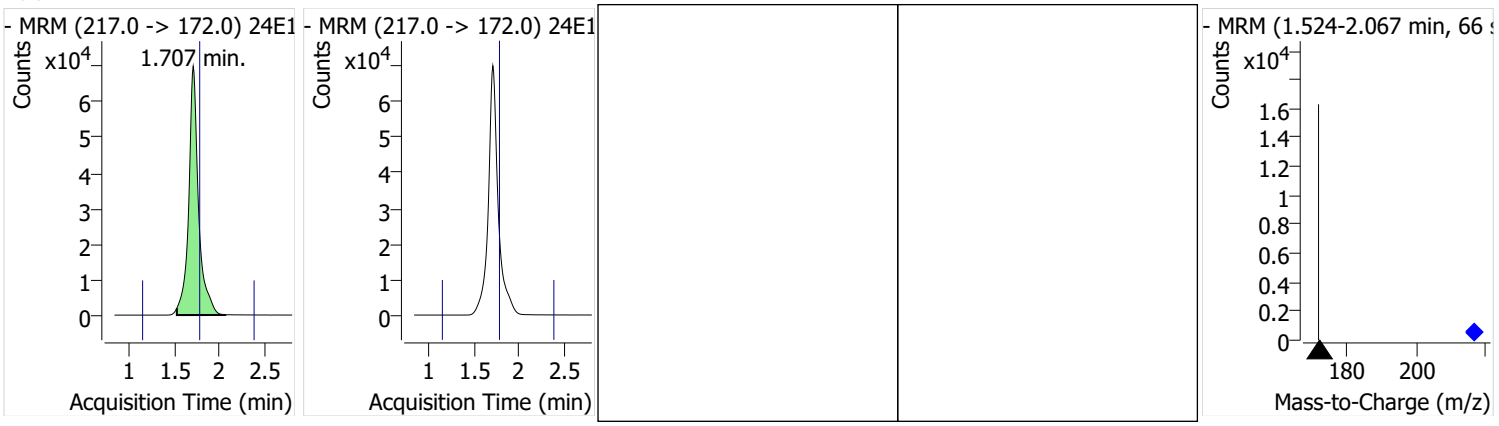


13C2-PFDoA

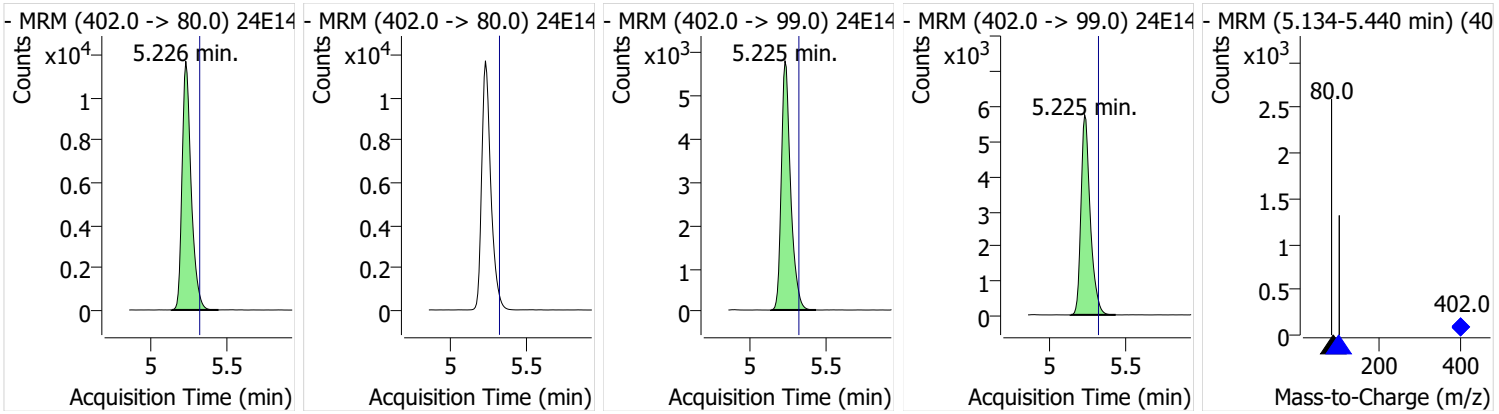
13C4-PFHpA



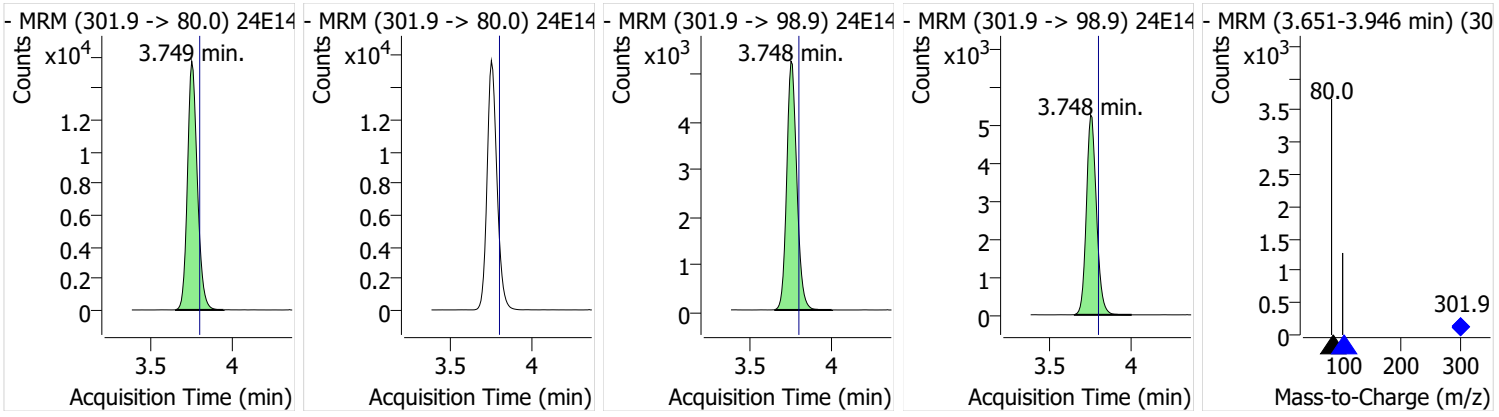
13C4-PFBA



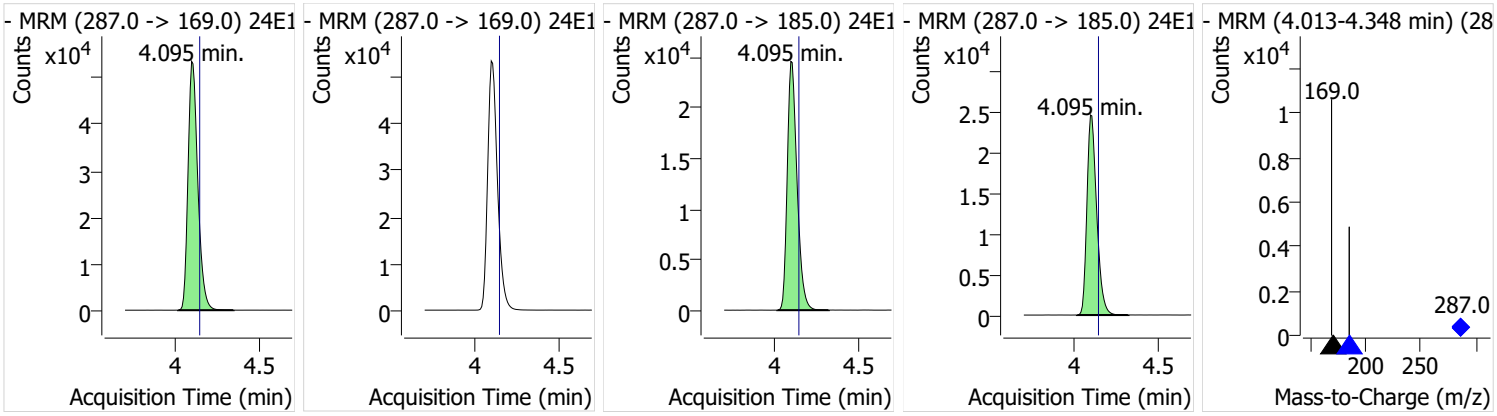
13C3-PFHxS



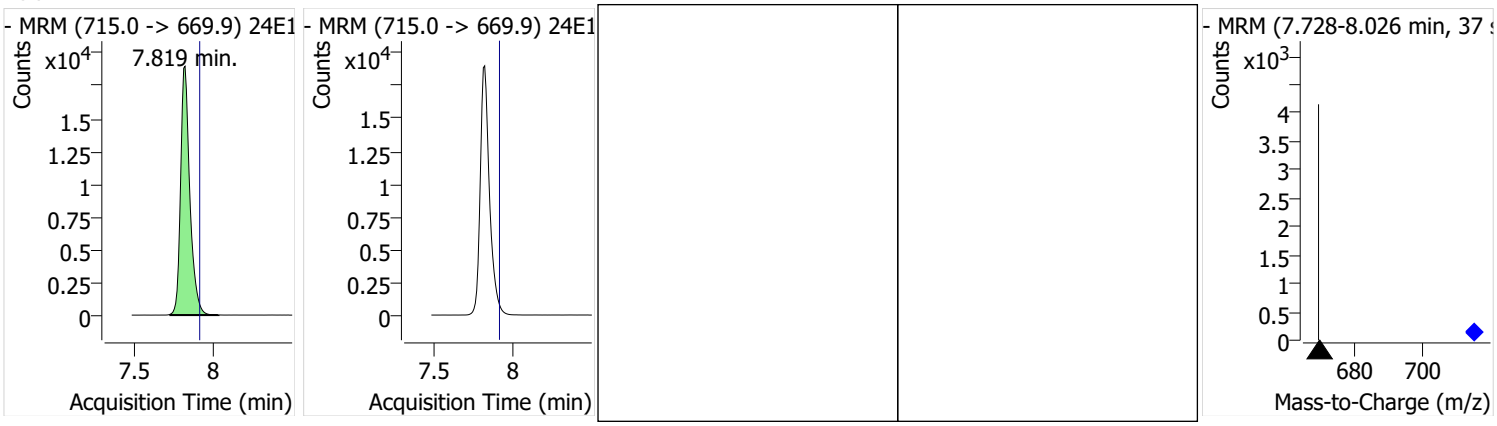
13C3-PFBS



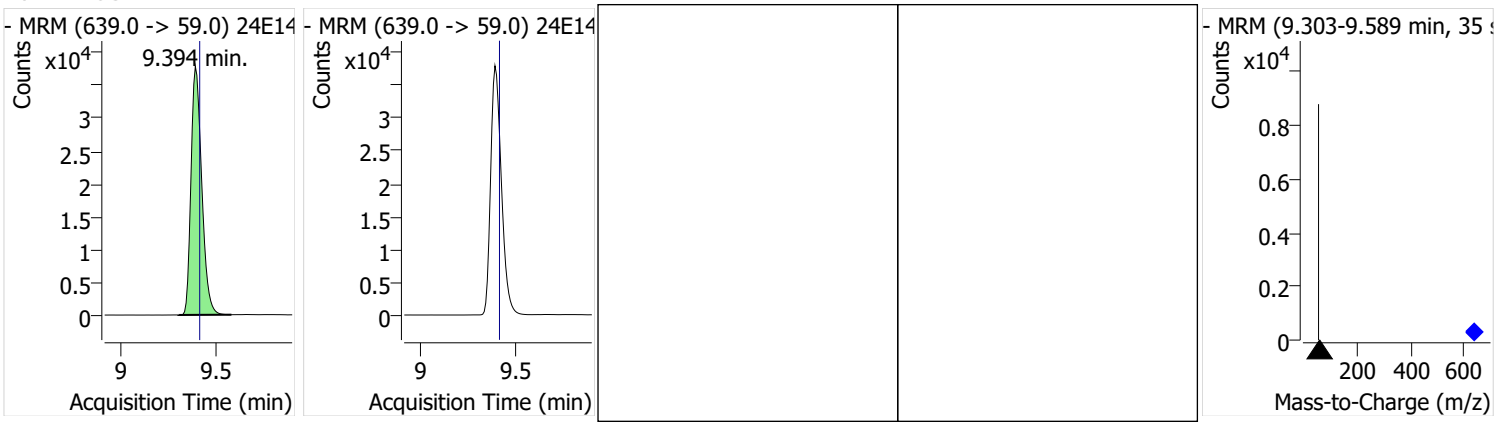
13C3-HFPODA



13C2-PFTeDA



D9-NEtFOSE

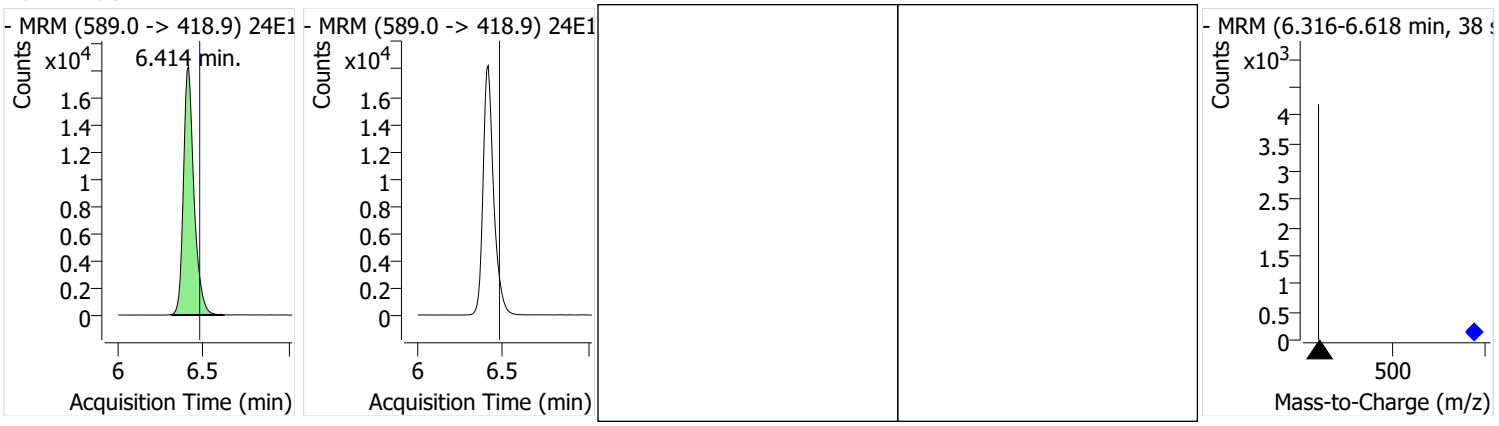


D3-NMeFOSA

D3-NMeFOSAA

D5-NEtFOSA

D5-NEtFOSAA



D7-NMeFOSE

1 - FORM I
ANALYSIS DATA SHEET

SB1A

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-06	File ID:	24E1437-06.d
Sampled:	05/08/24 14:19	Prepared:	05/15/24 00:00	Analyzed:	05/18/24 10:24
Solids:	72.51	Preparation:	Draft Method 1633	Dilution:	1
Initial/Final:	6.919 g / 5 mL				
Batch:	B374213	Sequence:	S104823	Calibration:	2400518
				Instrument:	QQQ6

CAS NO.	COMPOUND	CONC. (µg/kg dry)	MDL	RL	Q
375-22-4	Perfluorobutanoic acid (PFBA)		0.32	0.80	
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.050	0.045	0.40	J
307-24-4	Perfluorohexanoic acid (PFHxA)	0.053	0.033	0.20	J
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.048	0.014	0.20	J
335-67-1	Perfluorooctanoic acid (PFOA)	0.20	0.031	0.20	J
375-95-1	Perfluorononanoic acid (PFNA)	0.077	0.014	0.20	J
335-76-2	Perfluorodecanoic acid (PFDA)	0.043	0.018	0.20	J
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.044	0.023	0.20	J
307-55-1	Perfluorododecanoic acid (PFDoA)		0.022	0.20	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)		0.022	0.20	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)		0.020	0.20	
375-73-5	Perfluorobutanesulfonic acid (PFBS)		0.021	0.20	
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)		0.026	0.20	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)		0.078	0.20	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)		0.021	0.20	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.25	0.032	0.20	
68259-12-1	Perfluorononanesulfonic acid (PFNS)		0.022	0.20	
335-77-3	Perfluorodecanesulfonic acid (PFDS)		0.032	0.20	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)		0.030	0.20	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (		0.070	0.80	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid ((		0.50	0.80	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (		0.093	0.80	
754-91-6	Perfluorooctanesulfonamide (PFOSA)		0.031	0.20	
31506-32-8	N-methyl perfluoroocatnesulfonamide (NMeF		0.025	0.20	
4151-50-2	N-ethyl perfluorooctanesulfonamide (NEtFOS		0.023	0.20	
2355-31-9	N-MeFOSAA (NMeFOSAA)		0.036	0.20	V-05
2991-50-6	N-EtFOSAA (NEtFOSAA)		0.030	0.20	
24448-09-7	N-methylperfluorooctanesulfonamidoethanol(		0.22	2.0	
1691-99-2	N-ethylperfluorooctanesulfonamidoethanol (N		0.21	2.0	
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPC		0.051	0.80	

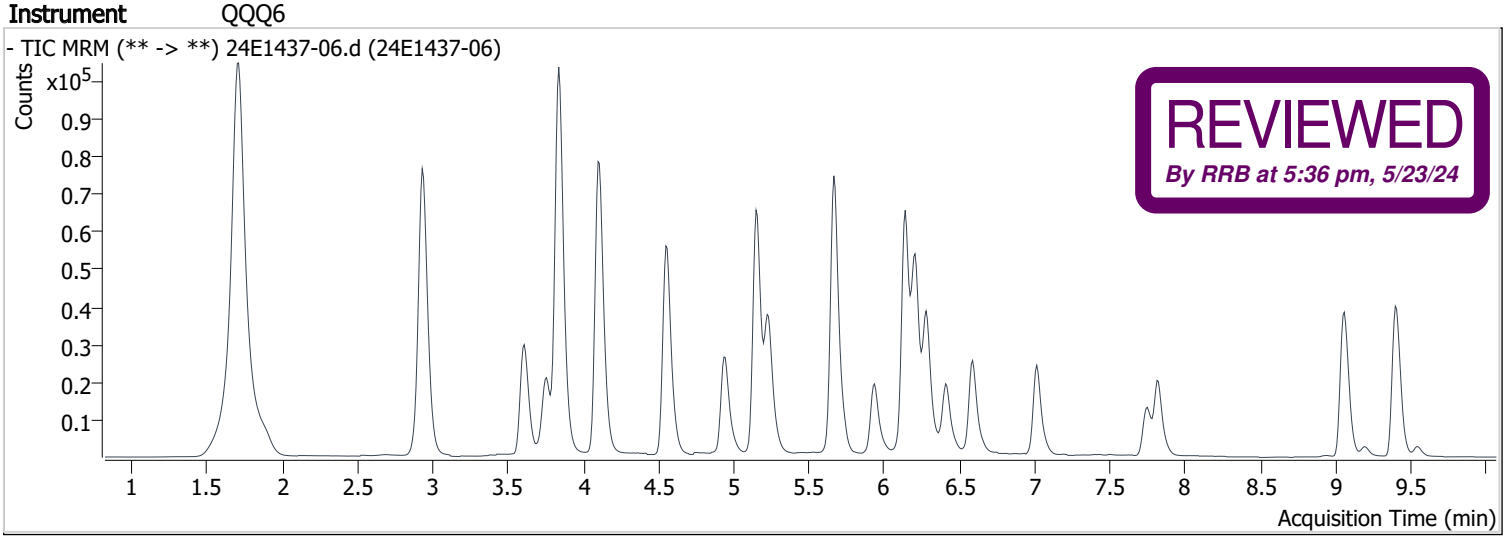
1 - FORM I
ANALYSIS DATA SHEET

SB1A

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-06	File ID:	24E1437-06.d
Sampled:	05/08/24 14:19	Prepared:	05/15/24 00:00	Analyzed:	05/18/24 10:24
Solids:	72.51	Preparation:	Draft Method 1633	Dilution:	1
Initial/Final:	6.919 g / 5 mL				
Batch:	B374213	Sequence:	S104823	Calibration:	2400518
Instrument:	QQQ6				

CAS NO.	COMPOUND	CONC. (µg/kg dry)	MDL	RL	Q
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADON		0.060	0.80	
756426-58-1	9Cl-PF3ONS (F53B Minor)		0.058	0.80	
763051-92-9	11Cl-PF3OUdS (F53B Major)		0.088	0.80	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)(3:3		0.19	2.0	
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)		1.3	10	MS-07A
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)(7:3		1.5	10	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEE		0.031	0.40	
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)		0.033	0.40	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)		0.033	0.40	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)		0.060	0.40	

Batch Path	R:\Data\MAY2024\051724\QuantResults\B374213.batch.bin		
Analysis Time	5/23/2024 5:54 AM	**Last Calib Update**	5/9/2024 9:16 AM
Acq. Time	5/18/2024 10:24 AM	**Data File**	24E1437-06.d
Sample Type	Sample	**Sample Name**	24E1437-06
Dilution	1	**Acq. Method**	1633_ACQUISITION_01.m
Sample Comment		**Processing method**	1633_050824.m
Instrument	QQQ6		



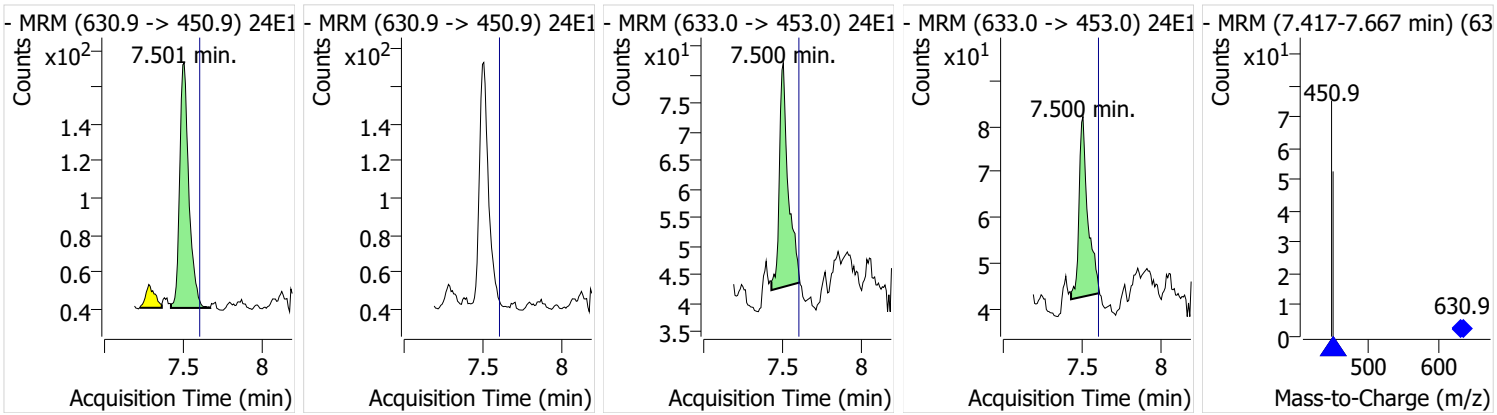
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
11Cl-PF3OUdS	7.501	538	99.75		13C3-HFPODA - ISTD	4.103	211486	0.0086	ng/ml			
633.0 -> 453.0			20.39	28.3								
3:3FTCA	2.740	0			13C5-PFPeA - ISTD	2.928	330830	-	ng/ml	✔	1	ALB 5/22/24
241.0 -> 117.0				*								
4:2FTS	3.590	0			13C2-4:2FTS - ISTD	3.605	32975	-	ng/ml	✔	1	ALB 5/22/24
327.0 -> 80.9				*								
5:3FTCA	4.401	0			13C5-PFHxA - ISTD	3.836	179805	-	ng/ml	✔	1	ALB 5/22/24
341.0 -> 217.0				*								
6:2FTS	4.934	326	26.06		13C2-6:2FTS - ISTD	4.933	22942	0.0210	ng/ml	✔	3	ALB 5/22/24
427.0 -> 80.9			19.67	39.0								
7:3FTCA	5.658	0			13C5-PFHxA - ISTD	3.836	179805	-	ng/ml	✔	1	ALB 5/22/24
441.0 -> 317.0				*								
8:2FTS	6.017	0			13C2-8:2FTS - ISTD	5.934	19655	-	ng/ml	✔	1	ALB 5/22/24
527.0 -> 81.0				*								
9Cl-PF3ONS	6.778	0			13C3-HFPODA - ISTD	4.103	211486	-	ng/ml	✔	1	ALB 5/22/24
533.0 -> 353.0				*								
ADONA	4.888	0			13C3-HFPODA - ISTD	4.103	211486	-	ng/ml	✔	1	ALB 5/22/24
377.0 -> 85.1				*								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA	4.120	0			13C3-HFPODA - ISTD	4.103	211486	-	ng/ml	✔	1	ALB 5/22/24
285.0 -> 184.9				*								
NEtFOSA	9.556	84	40.06		D5-NEtFOSA - ISTD	9.546	8762	0.0185	ng/ml	✔	3	ALB 5/22/24
526.0 -> 219.0			124.82	102.8								
NEtFOSAA	6.423	0			D5-NEtFOSAA - ISTD	6.406	73052	-	ng/ml	✔	1	ALB 5/22/24
584.0 -> 526.0				*								
NEtFOSE	9.412	116	19.22		D9-NEtFOSE - ISTD	9.394	157128	0.0165	ng/ml	✔	3	ALB 5/22/24
NFDHA	3.742	36	16.00		13C5-PFHxA - ISTD	3.836	179805	0.0059	ng/ml			
295.0 -> 85.0			15.50	30.6								
NMeFOSA	9.211	42	83.74		D3-NMeFOSA - ISTD	9.193	8909	0.0097	ng/ml	✔	3	ALB 5/22/24
512.0 -> 219.0			24.20	96.2								
NMeFOSAA	6.236	0			D3-NMeFOSAA - ISTD	6.203	169283	-	ng/ml	✔	1	ALB 5/22/24
570.0 -> 418.9				*								
NMeFOSE	9.082	84	20.36		D7-NMeFOSE - ISTD	9.057	152811	0.0127	ng/ml	✔	3	ALB 5/22/24
PFBA	1.704	6306	211.65		13C4-PFBA - ISTD	1.707	499775	0.1367	ng/ml	✔	3	ALB 5/22/24
PFBS	3.758	536	53.06		13C3-PFBS - ISTD	3.757	62818	0.0171	ng/ml	✔	3	ALB 5/22/24
298.9 -> 98.8			25.80	34.3								
PFDA	6.140	3901	90.06		13C6-PFDA - ISTD	6.140	109274	0.0433	ng/ml	✔	3	ALB 5/22/24
513.0 -> 219.0			338.23	12.0								
PFDoA	7.012	1583	63.44		13C2-PFDoA - ISTD	7.011	91833	0.0208	ng/ml			
613.0 -> 319.0			61.68	10.9								
PFDoS	7.954	0			13C8-PFOS - ISTD	6.281	32962	-	ng/ml	✔	1	ALB 5/22/24
698.9 -> 99.0				*								
PFDS	7.189	168	57.41		13C8-PFOS - ISTD	6.281	32962	0.0157	ng/ml	✔	3	ALB 5/22/24
599.0 -> 98.8			35.88	58.6								
PFEESA	4.141	0			13C5-PFHxA - ISTD	3.836	179805	-	ng/ml	✔	1	ALB 5/22/24
315.0 -> 83.0				*								
PFHpA	4.550	4393	90.58		13C4-PFHpA - ISTD	4.549	216827	0.0486	ng/ml			
362.9 -> 169.0			170.34	20.0								
PFHpS	5.799	0			13C8-PFOS - ISTD	6.281	32962	-	ng/ml	✔	1	ALB 5/22/24
449.0 -> 98.8				*								
PFHxA	3.838	3861	85.60		13C5-PFHxA - ISTD	3.836	179805	0.0528	ng/ml			
313.0 -> 118.9			46.00	4.2								

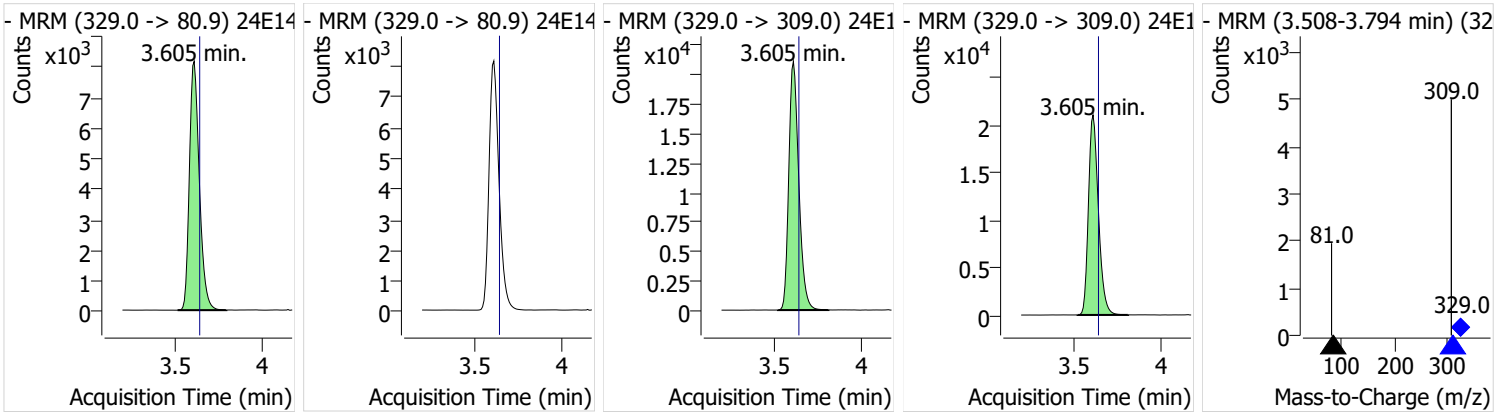
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFHxS	5.235	358	38.94		13C3-PFHxS - ISTD	5.234	45175	0.0175	ng/ml	✔	3	ALB 5/22/24
398.9 -> 99.0			35.38	53.2								
PFMBA	3.246	0			13C5-PFPeA - ISTD	2.928	330830	-	ng/ml	✔	1	ALB 5/22/24
PFMPA	2.250	0			13C5-PFPeA - ISTD	2.928	330830	-	ng/ml	✔	1	ALB 5/22/24
PFNA	5.665	7242	133.93		13C9-PFNA - ISTD	5.664	116003	0.0776	ng/ml	✔	3	ALB 5/22/24
463.0 -> 219.0			241.67	19.6								
PFNS	6.859	0			13C8-PFOS - ISTD	6.281	32962	-	ng/ml	✔	1	ALB 5/22/24
549.0 -> 98.8				*								
PFOA	5.149	19814	136.36		13C8-PFOA - ISTD	5.148	199044	0.1983	ng/ml	✔	3	ALB 5/22/24
413.0 -> 169.0			354.66	26.3								
PFOS	6.282	4258	410.09		13C8-PFOS - ISTD	6.281	32962	0.2486	ng/ml	✔	3	ALB 5/22/24
499.0 -> 99.0			276.25	47.9								
PFOSA	7.753	295	2555.57		13C8-PFOSA - ISTD	7.751	51446	0.0130	ng/ml			
497.9 -> 478.0			1.77	***0.3**								
PFPeA	2.929	3344	48.17		13C5-PFPeA - ISTD	2.928	330830	0.0500	ng/ml	✔	3	ALB 5/22/24
263.0 -> 69.0			3.09	0.4								
PFPeS	4.608	0			13C3-PFHxS - ISTD	5.234	45175	-	ng/ml	✔	1	ALB 5/22/24
349.0 -> 98.9				*								
PFTeDA	7.820	894	77.24		13C2-PFTeDA - ISTD	7.819	72626	0.0153	ng/ml			
713.0 -> 168.9			37.05	6.3								
PFTrDA	7.423	1034	56.72		13C2-PFDoA - ISTD	7.011	91833	0.0159	ng/ml	✔	3	
663.0 -> 168.9			349.36	***23.7**								
PFUnA	6.579	3337	105.38		13C7-PFUnA - ISTD	6.586	94600	0.0439	ng/ml			
563.0 -> 269.1			157.77	18.5								
TDCA	6.282	3212	331.14					-	ng/ml			
499.0 -> 99.0			270.38	***51.6**								
13C2-8:2FTS	5.934	19655	4234.37		18O2-PFHxS	5.233	56472	5.2951	ng/ml			
529.0 -> 509.0			5282.51	276.3								
13C2-4:2FTS	3.605	32975	7600.30		18O2-PFHxS	5.233	56472	4.8793	ng/ml			
329.0 -> 309.0			4436.71	259.0								
13C2-6:2FTS	4.933	22942	5388.07		18O2-PFHxS	5.233	56472	5.0239	ng/ml			
429.0 -> 409.0			6798.80	345.0								
13C5-PFHxA	3.836	179805	34168.25		13C2-PFHxA	3.837	212913	2.0494	ng/ml			
318.0 -> 120.0			483.25	1.9								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
13C6-PFDA	6.140	109274	13185.12		13C2-PFDA	6.140	134681	1.0283	ng/ml			
13C7-PFUnA	6.586	94600	11915.41		13C2-PFDA	6.140	134681	1.0996	ng/ml			
13C8-PFOA	5.148	199044	33528.26		13C4-PFOA	5.148	35449	2.0481	ng/ml			
13C8-PFOS	6.281	32962	4843.06		13C4-PFOS	6.281	46157	1.9864	ng/ml			
507.0 -> 99.0			5549.24	52.3								
13C8-PFOSA	7.751	51446	42696.48		13C4-PFOS	6.281	46157	1.7628	ng/ml			
13C9-PFNA	5.664	116003	11094.84		13C5-PFNA	5.664	168225	1.0112	ng/ml			
13C5-PFPeA	2.928	330830	12409.24		13C2-PFHxA	3.837	212913	4.2074	ng/ml			
13C2-PFDoA	7.011	91833	12209.20		13C2-PFDA	6.140	134681	1.0342	ng/ml			
13C4-PFHpA	4.549	216827	29514.09		13C2-PFHxA	3.837	212913	2.2094	ng/ml			
13C4-PFBA	1.707	499775	213035.33		13C3-PFBA	1.701	293566	7.8412	ng/ml			
13C3-PFHxS	5.234	45175	11875.66		18O2-PFHxS	5.233	56472	1.9588	ng/ml			
402.0 -> 99.0			7237.57	51.1								
13C3-PFBS	3.757	62818	11796.14		18O2-PFHxS	5.233	56472	2.0582	ng/ml			
301.9 -> 98.9			6404.00	36.2								
13C3-HFPODA	4.103	211486	24007.99		13C2-PFHxA	3.837	212913	8.6176	ng/ml			
287.0 -> 185.0			7831.97	46.0								
13C2-PFTeDA	7.819	72626	8251.06		13C2-PFDA	6.140	134681	0.9499	ng/ml			
D9-NEtFOSE	9.394	157128	23126.07		13C4-PFOS	6.281	46157	12.9469	ng/ml			
D3-NMeFOSA	9.193	8909	3390.89		13C4-PFOS	6.281	46157	0.9517	ng/ml			
D3-NMeFOSAA	6.203	169283	24336.43		13C4-PFOS	6.281	46157	5.6615	ng/ml			
D5-NEtFOSA	9.546	8762	5844.02		13C4-PFOS	6.281	46157	0.8973	ng/ml			
D5-NEtFOSAA	6.406	73052	9189.16		13C4-PFOS	6.281	46157	4.8283	ng/ml			
D7-NMeFOSE	9.057	152811	34879.77		13C4-PFOS	6.281	46157	13.4730	ng/ml			

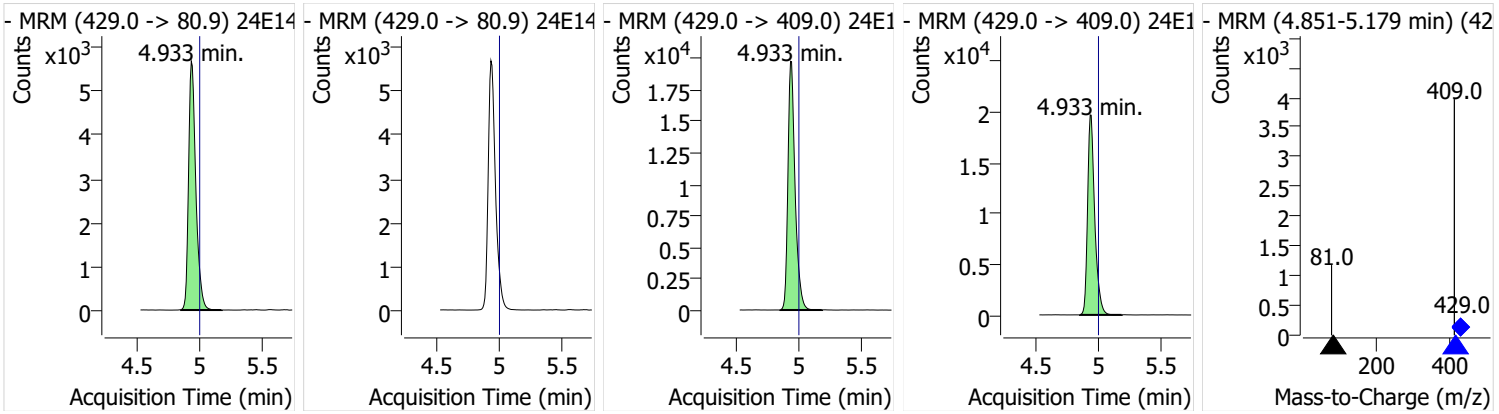
11Cl-PF3OUdS



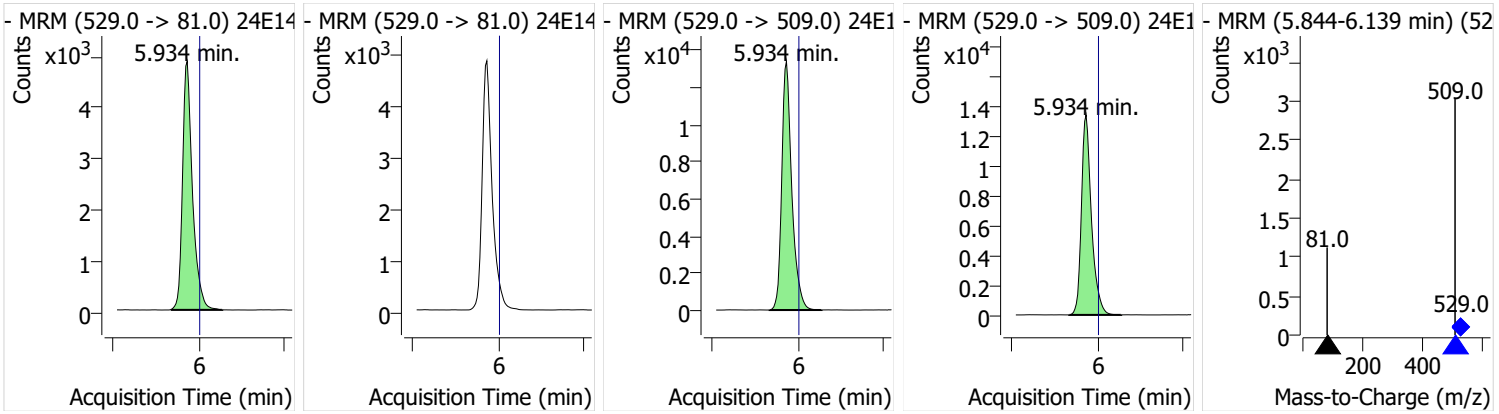
13C2-4:2FTS - ISTD



13C2-6:2FTS - ISTD



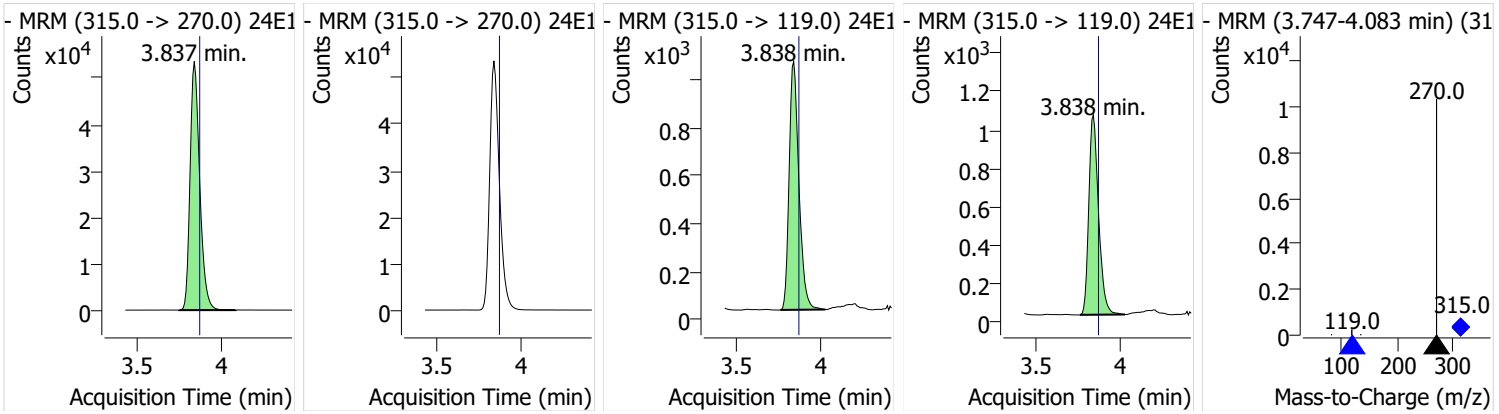
13C2-8:2FTS - ISTD



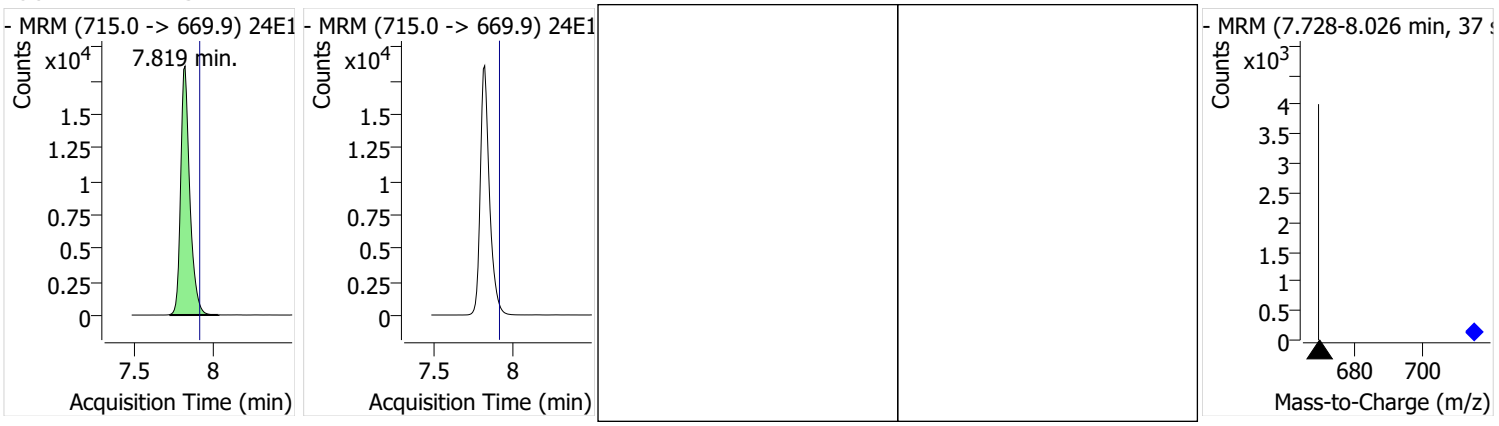
13C2-PFDA

13C2-PFDoA - ISTD

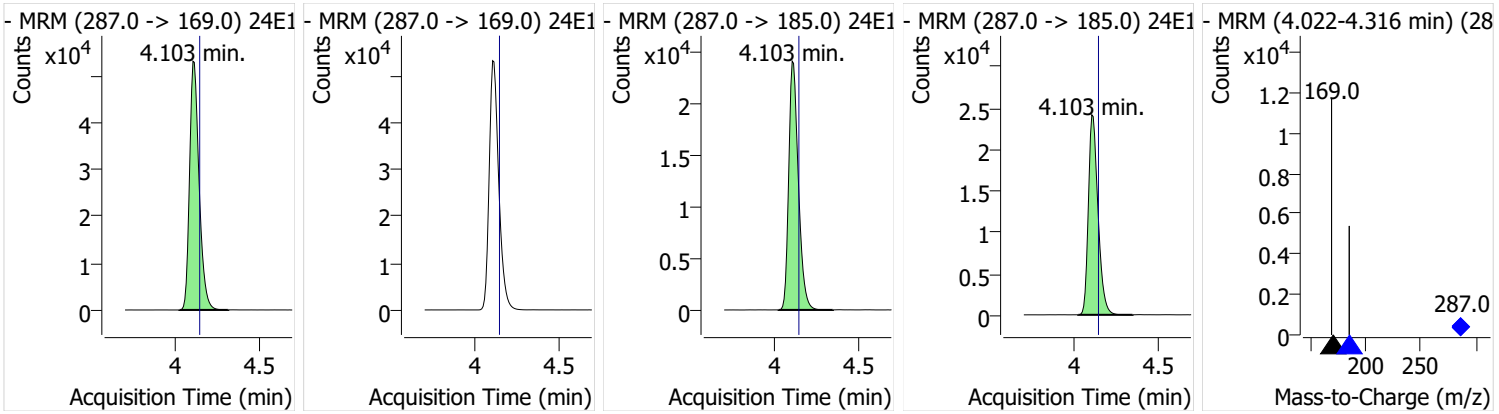
13C2-PFHxA



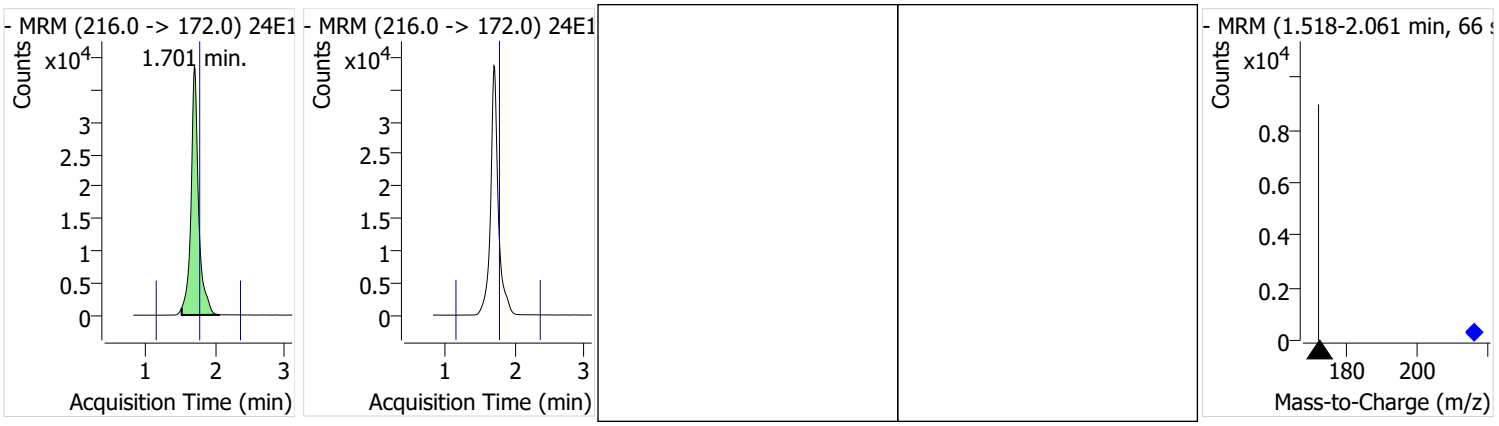
13C2-PFTeDA - ISTD



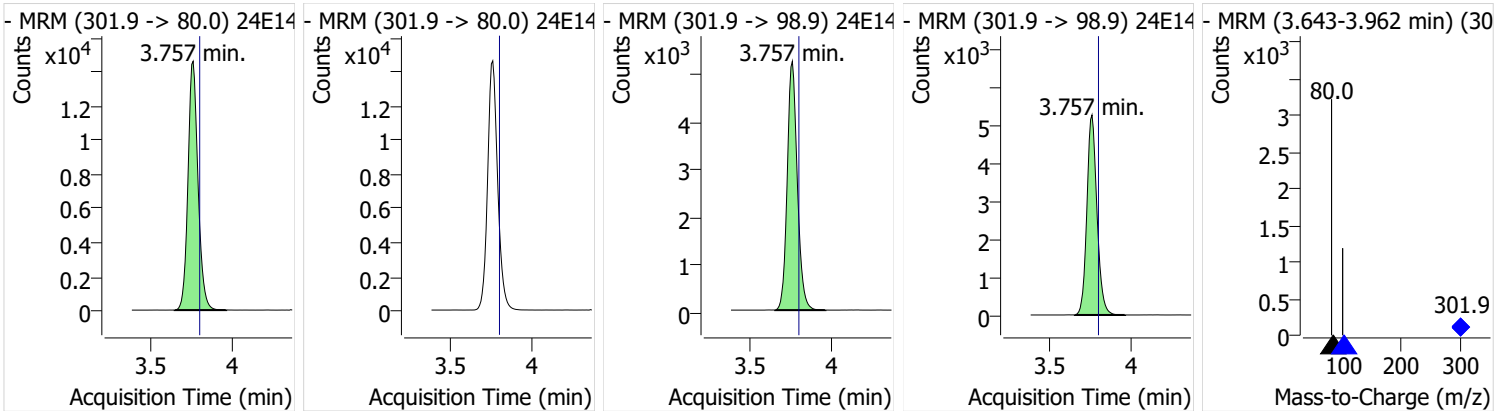
13C3-HFPODA - ISTD



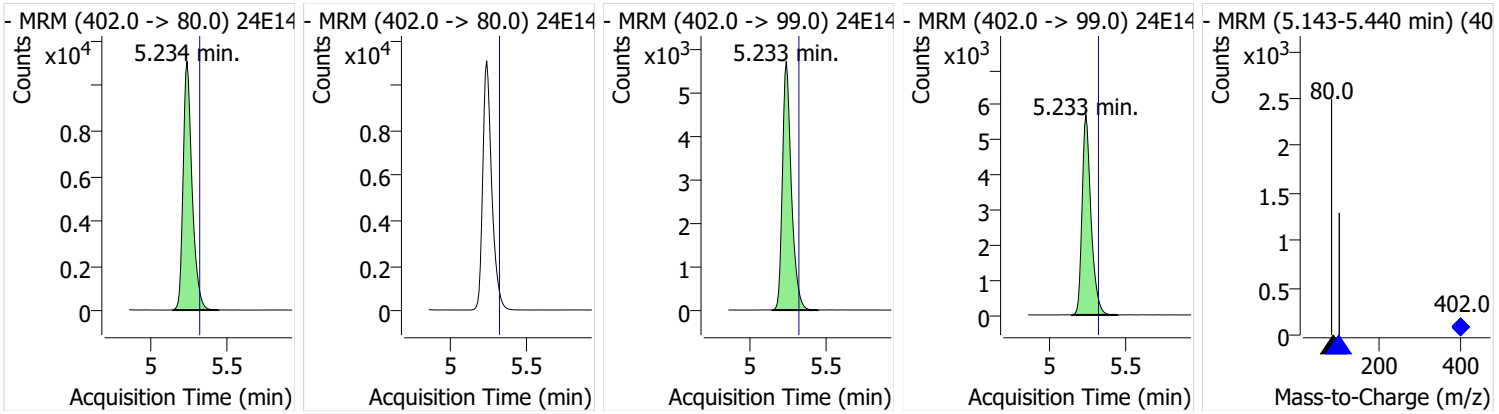
13C3-PFBA



13C3-PFBS - ISTD



13C3-PFHxS - ISTD



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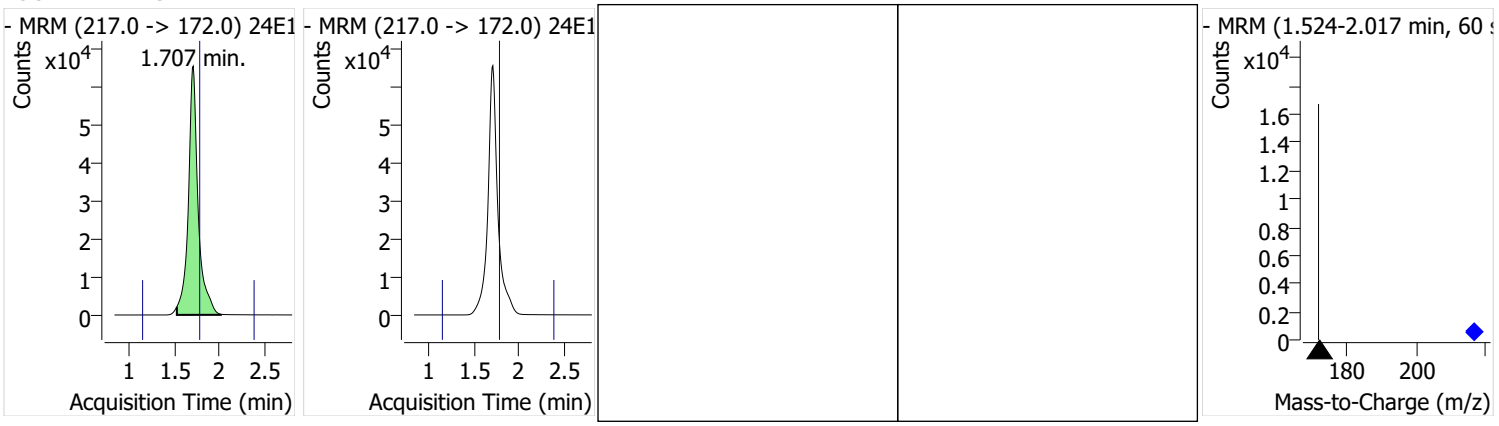
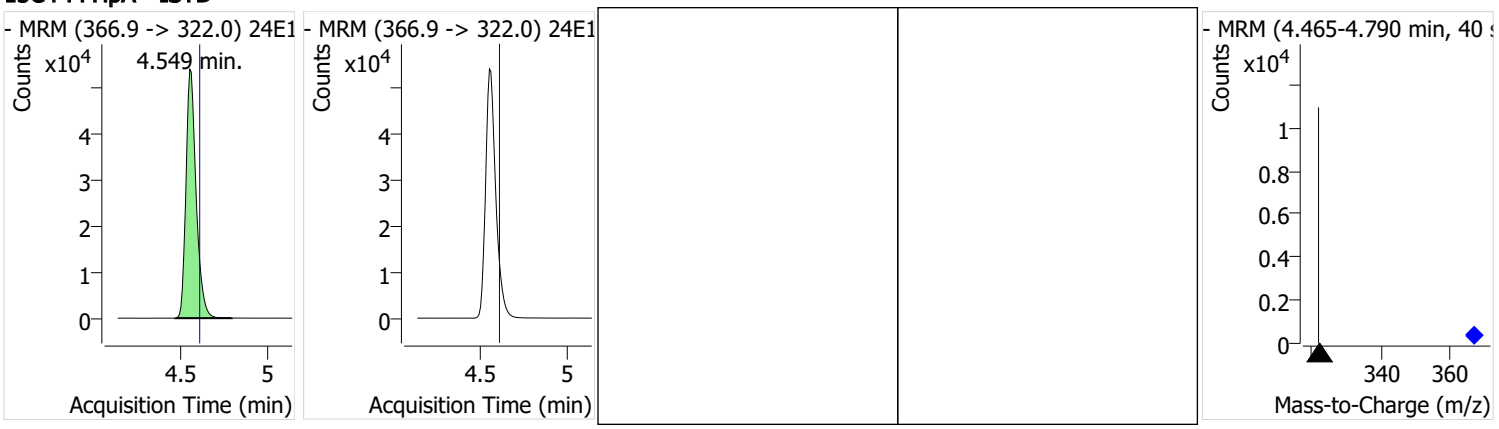
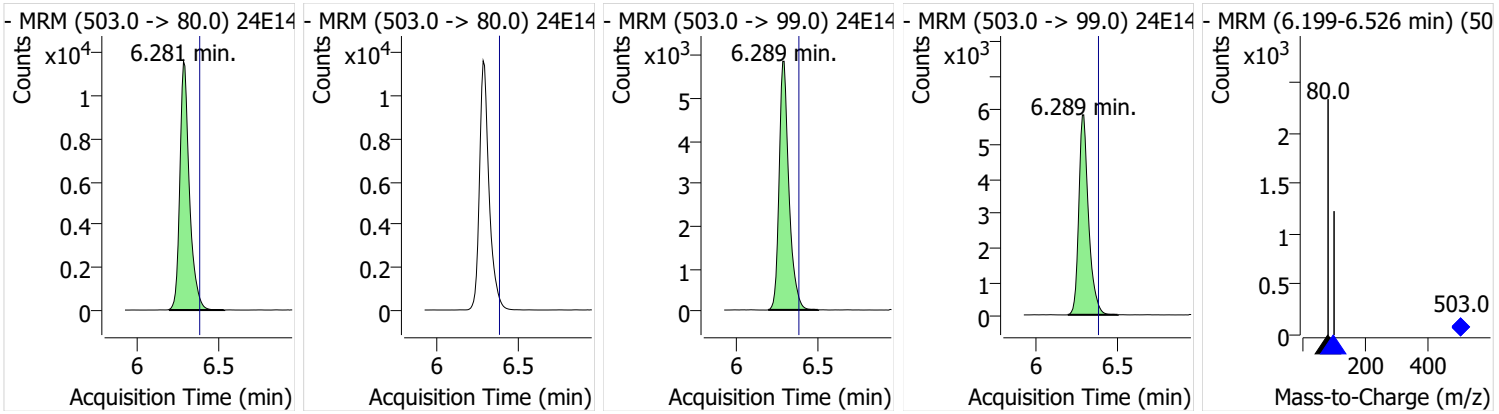


13C4-PFHpA - ISTD

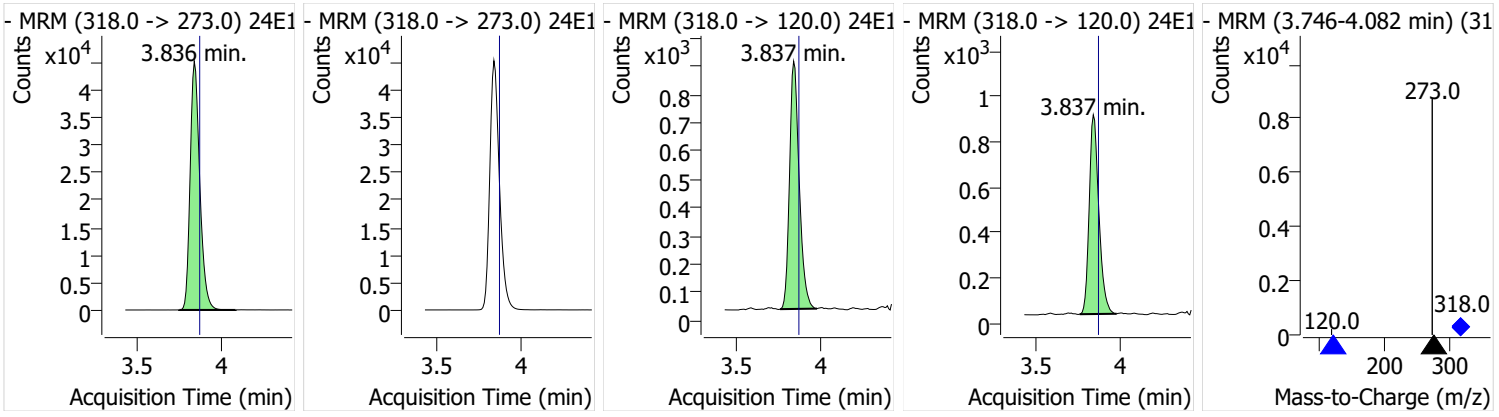


13C4-PFOA

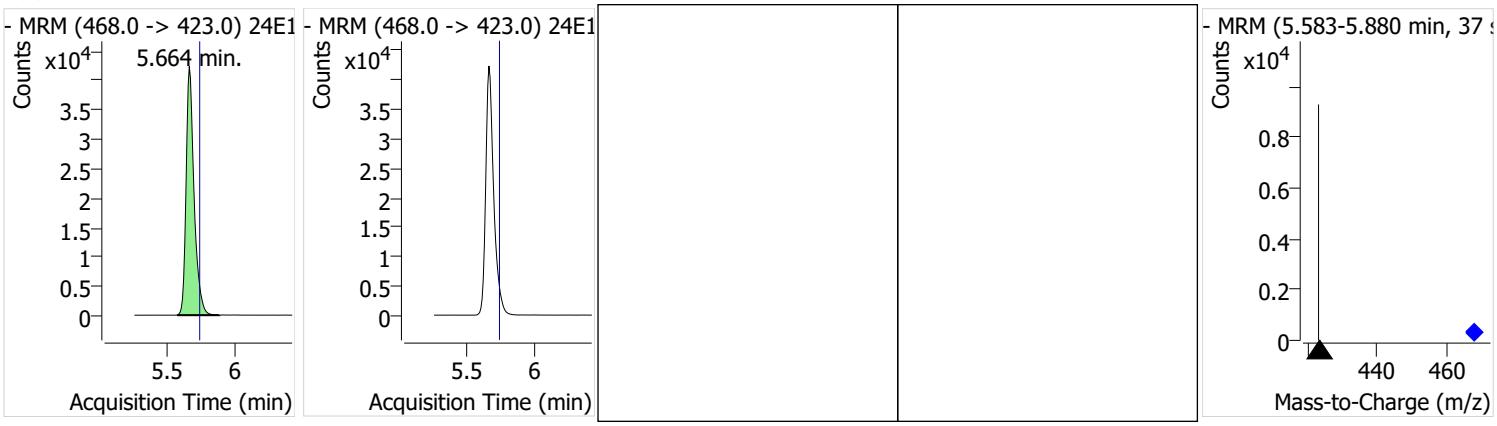
13C4-PFOS



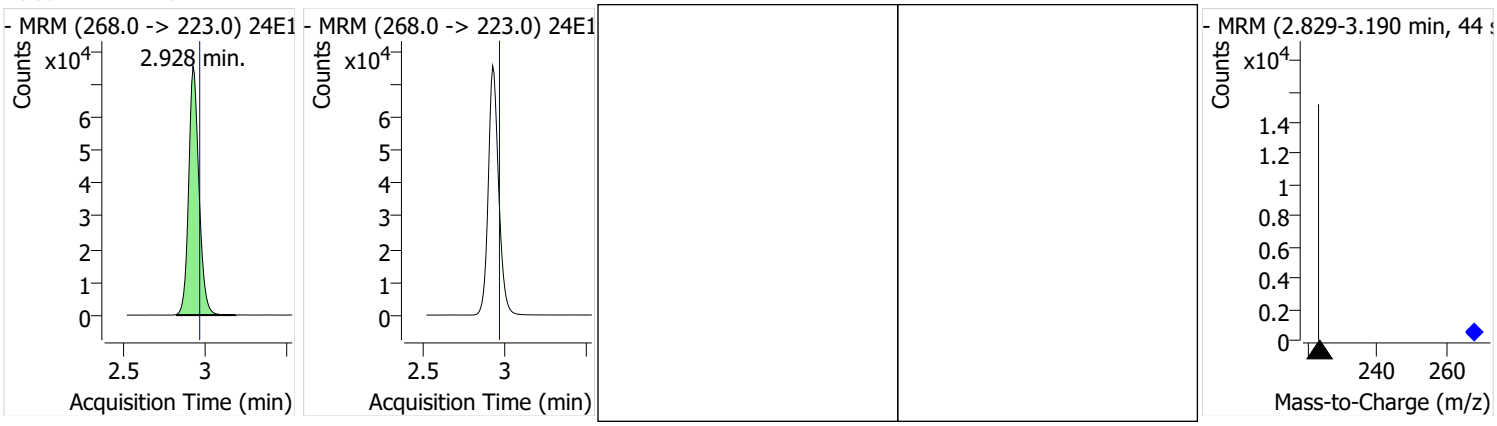
13C5-PFHxA - ISTD



13C5-PFNA

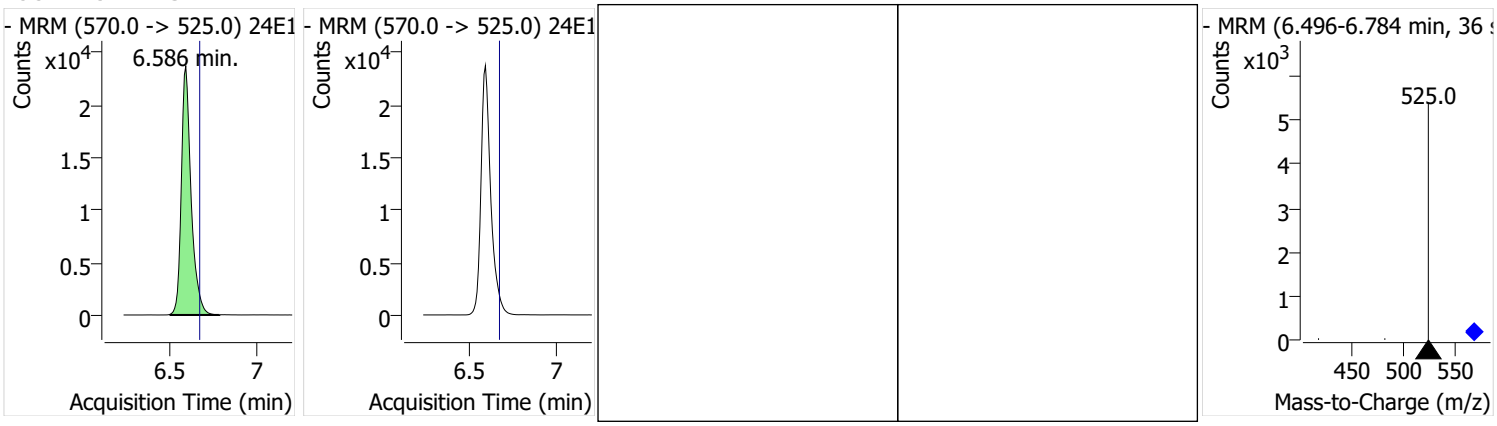


13C5-PFPeA - ISTD



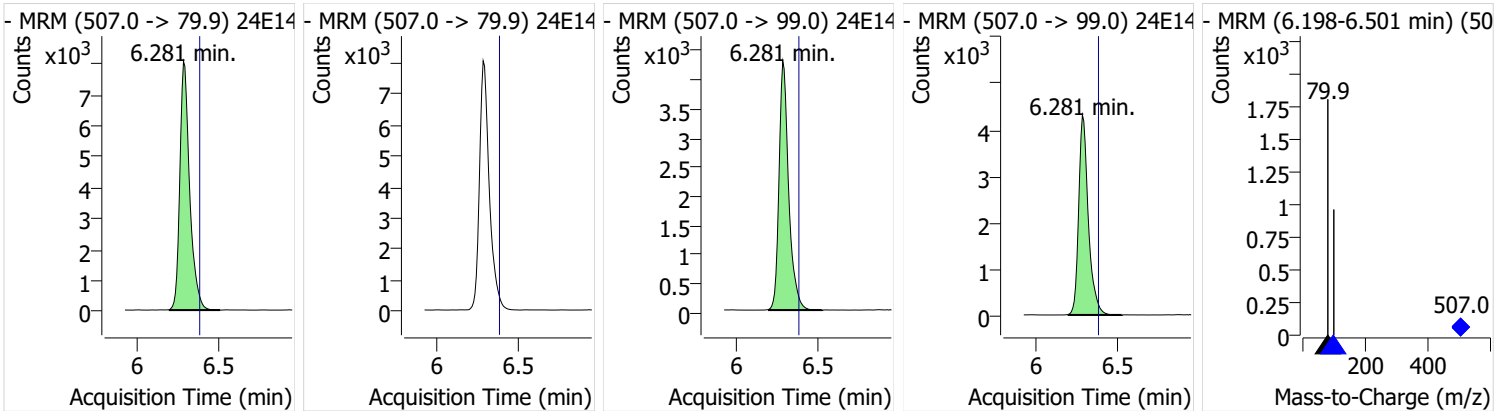
13C6-PFDA - ISTD

13C7-PFUnA - ISTD

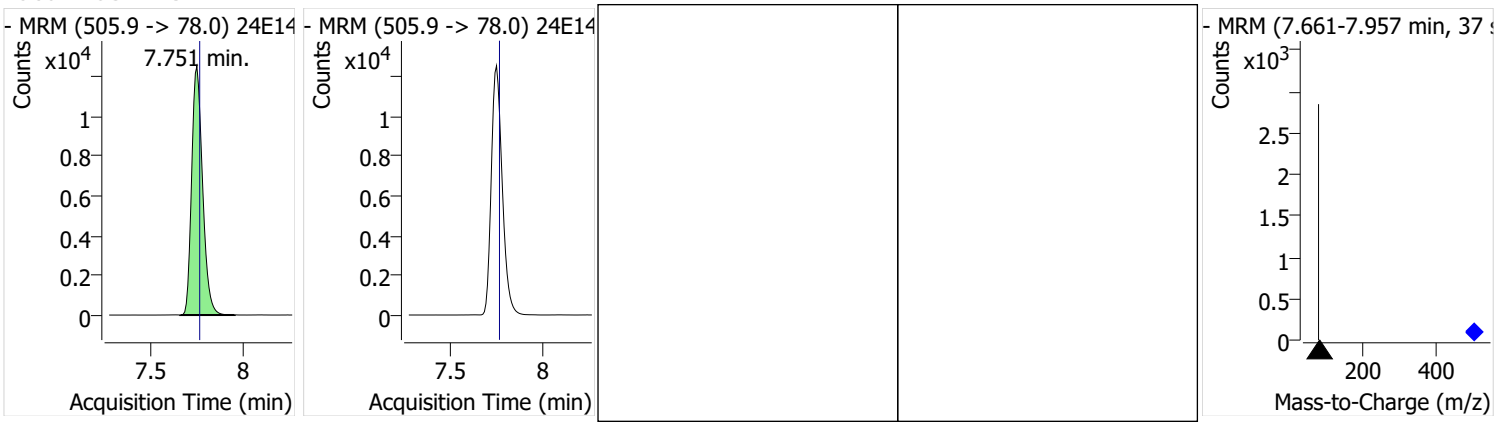


13C8-PFOA - ISTD

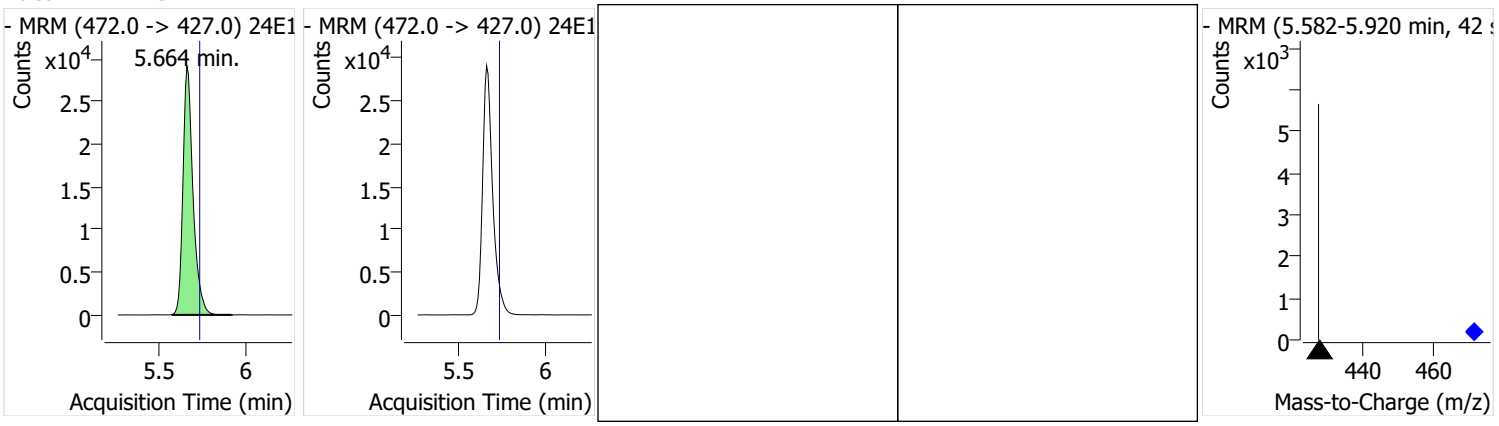
13C8-PFOS - ISTD



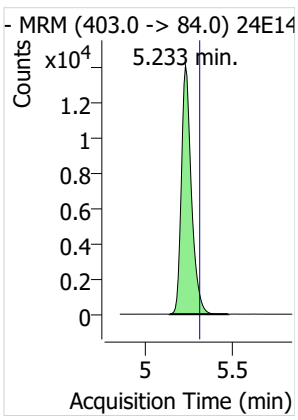
13C8-PFOSA - ISTD

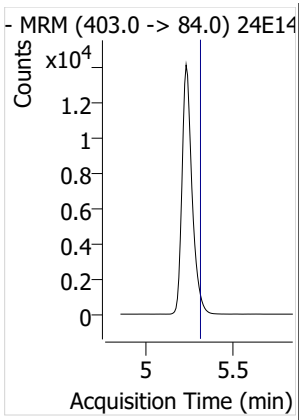


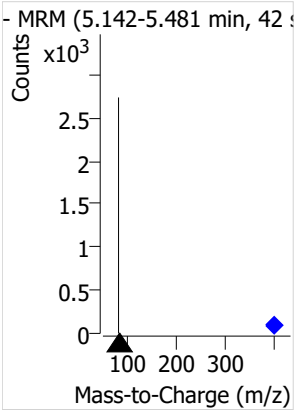
13C9-PFNA - ISTD



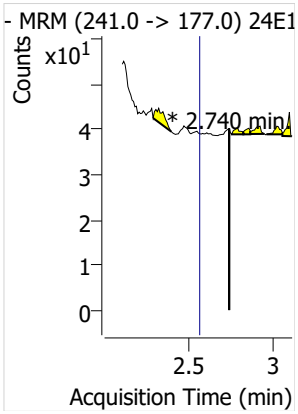
18O2-PFHxS

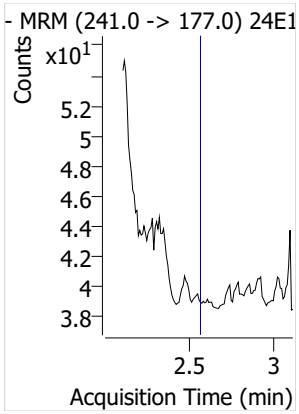


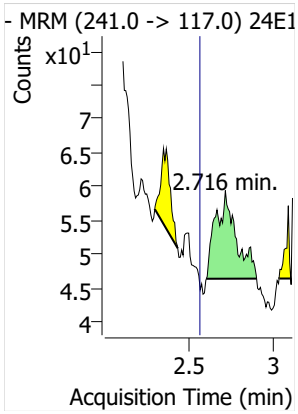


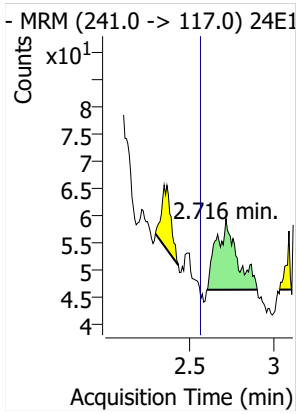


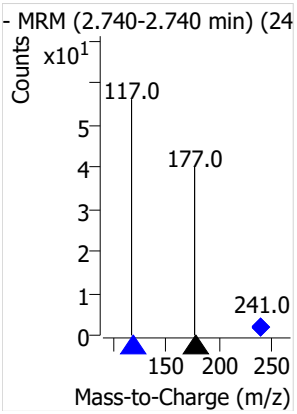
3:3FTCA



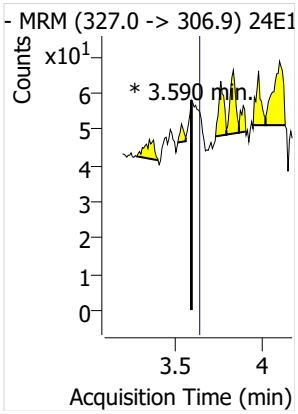


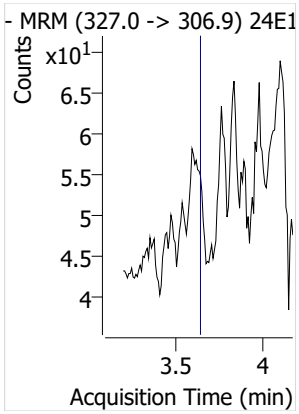


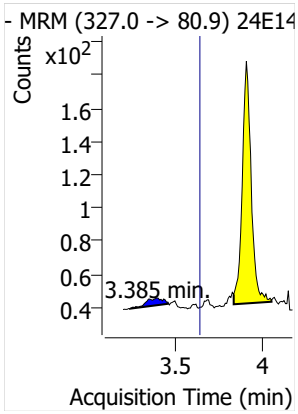


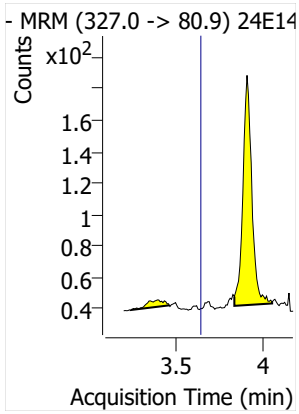


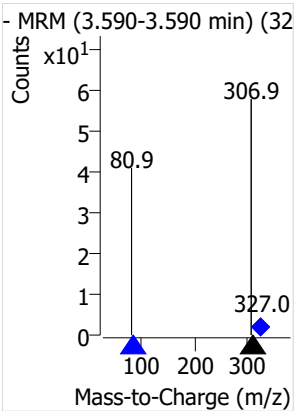
4:2FTS



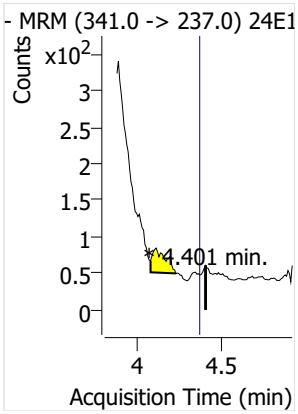


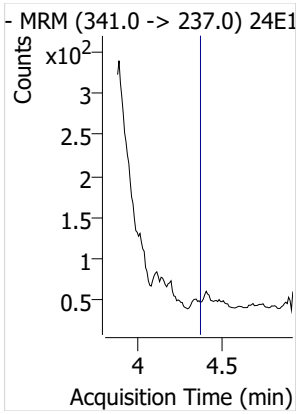


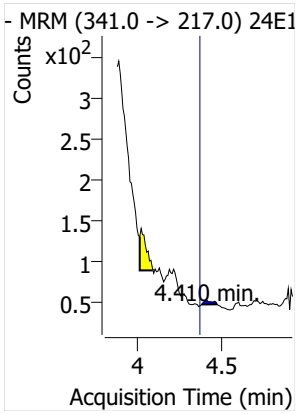


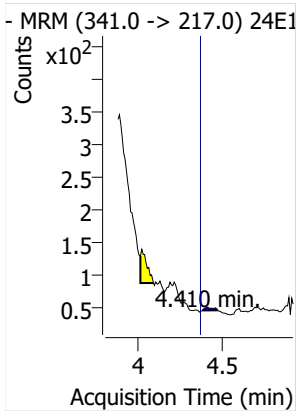


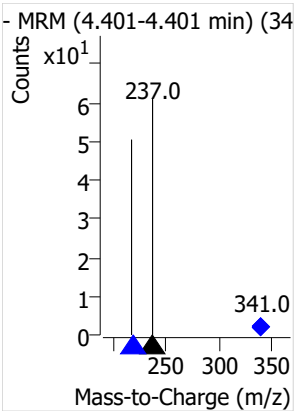
5:3FTCA



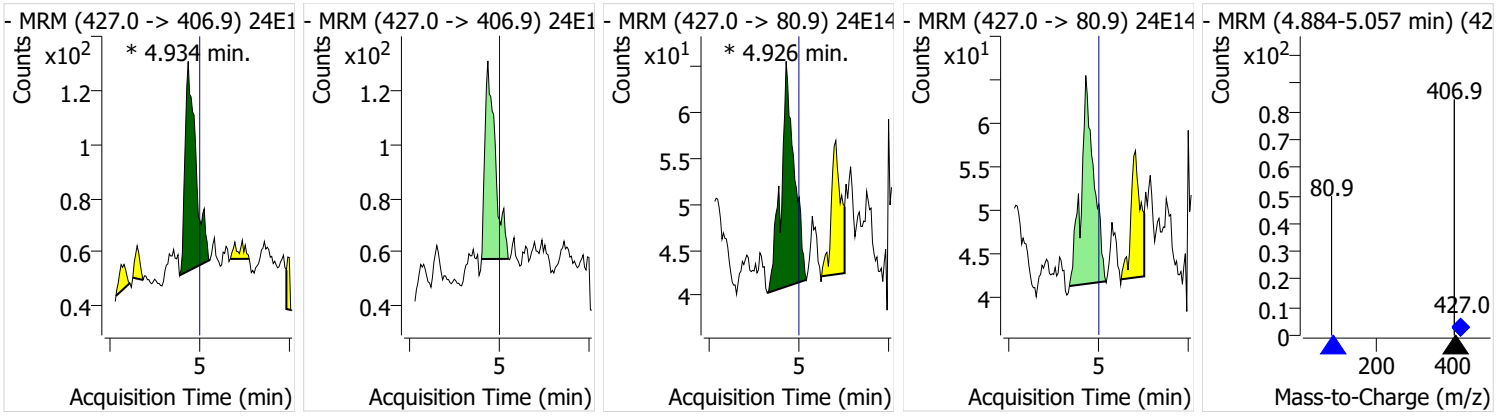




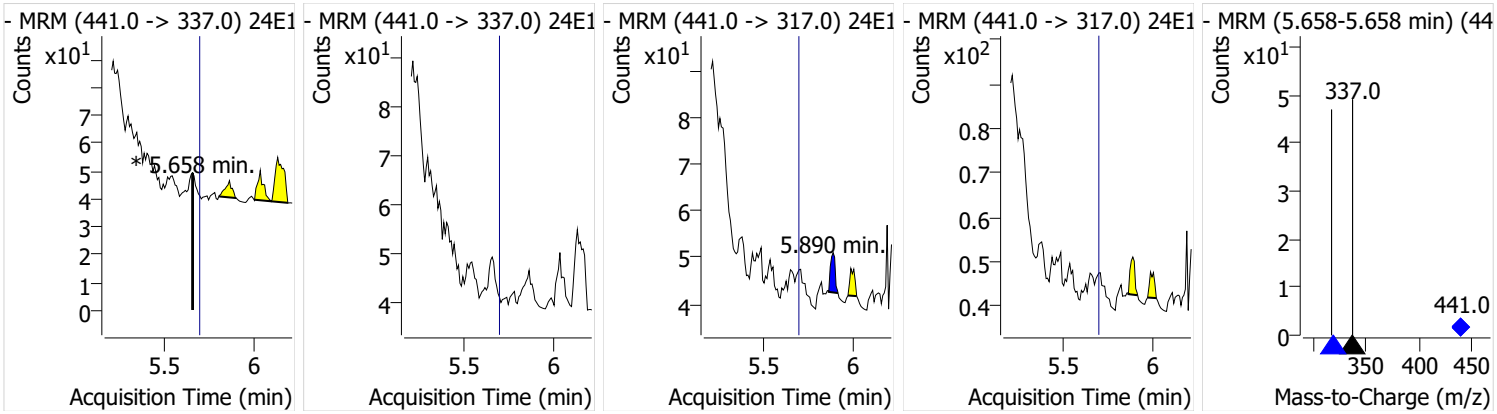




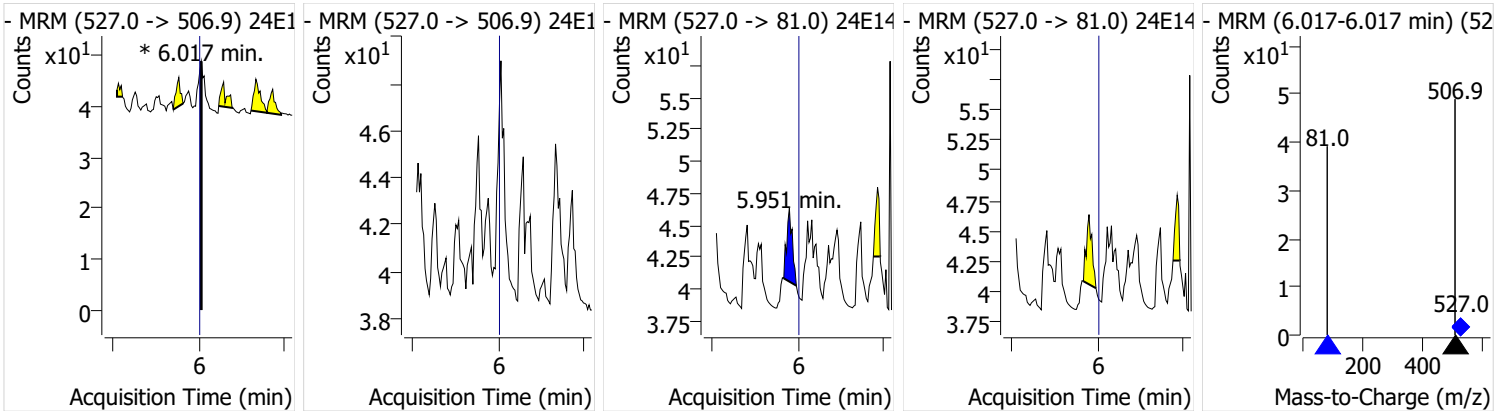
6:2FTS



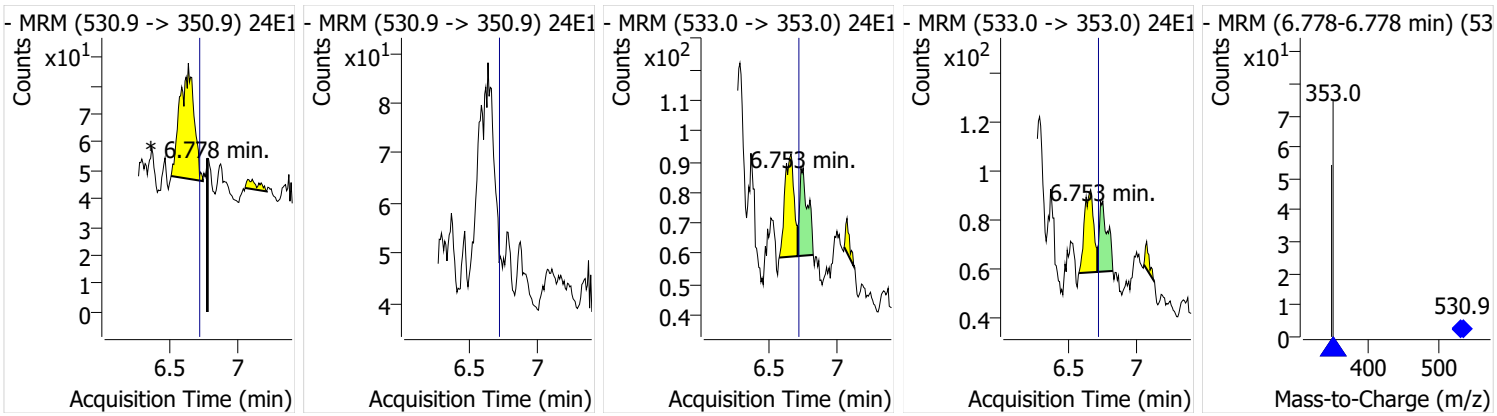
7:3FTCA



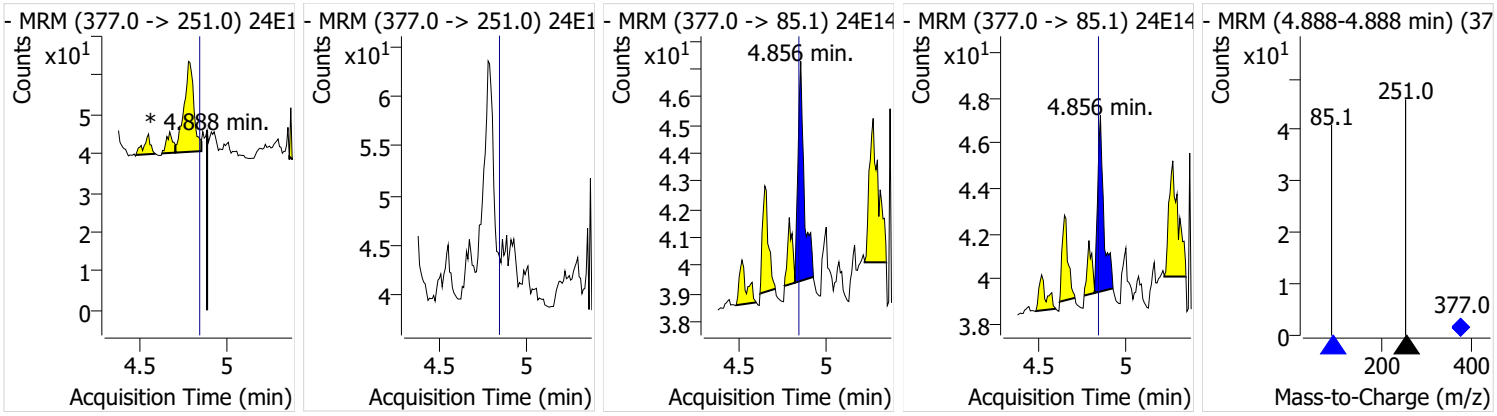
8:2FTS



9Cl-PF3ONS



ADONA

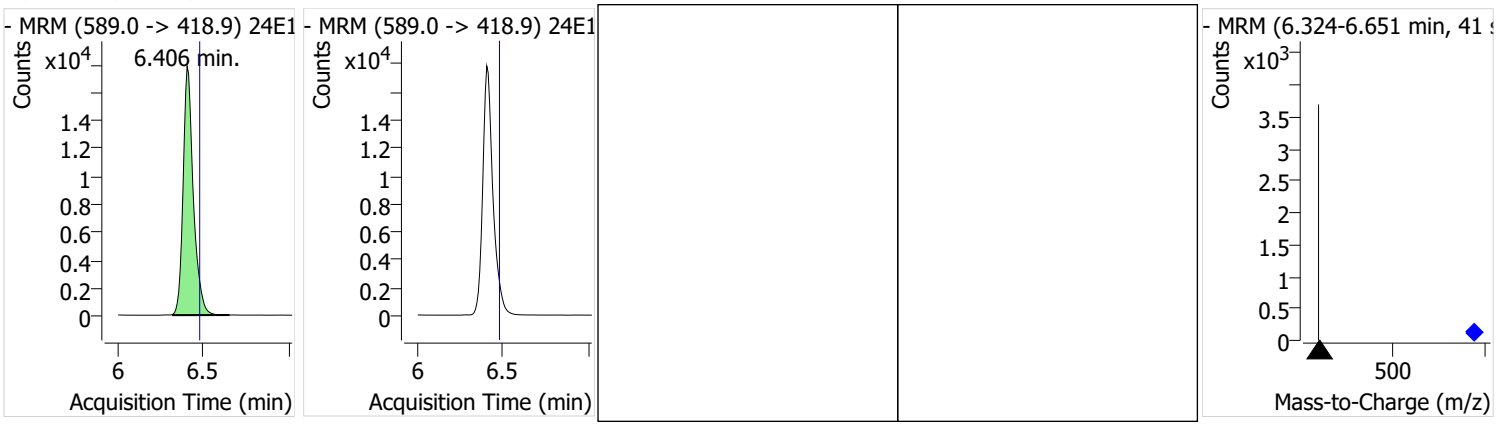


D3-NMeFOSA - ISTD

D3-NMeFOSAA - ISTD

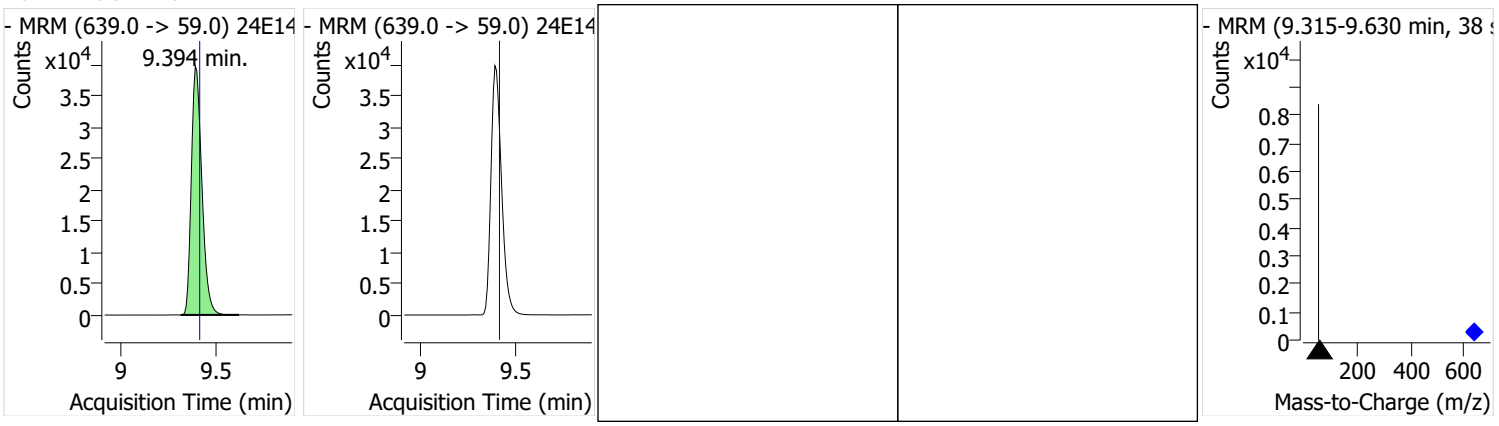
D5-NEtFOSA - ISTD

D5-NEtFOSAA - ISTD

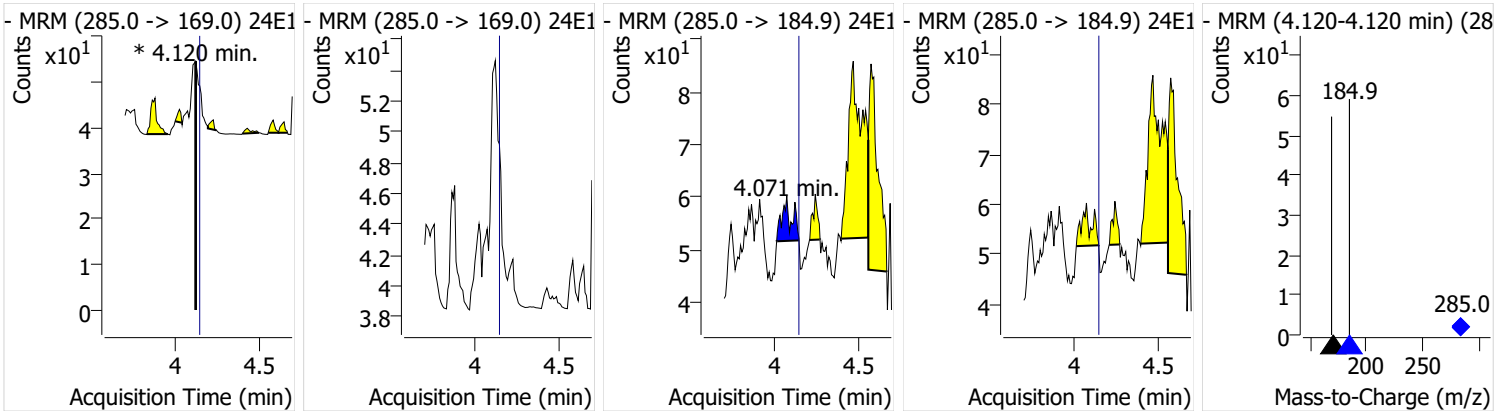


D7-NMeFOSE - ISTD

D9-NEtFOSE - ISTD



HFPO-DA



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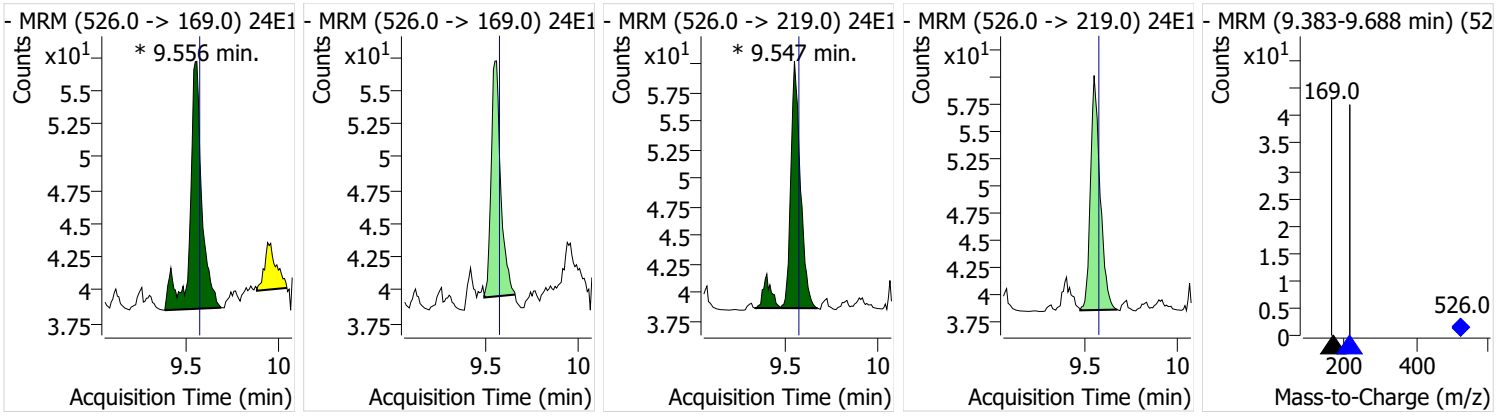

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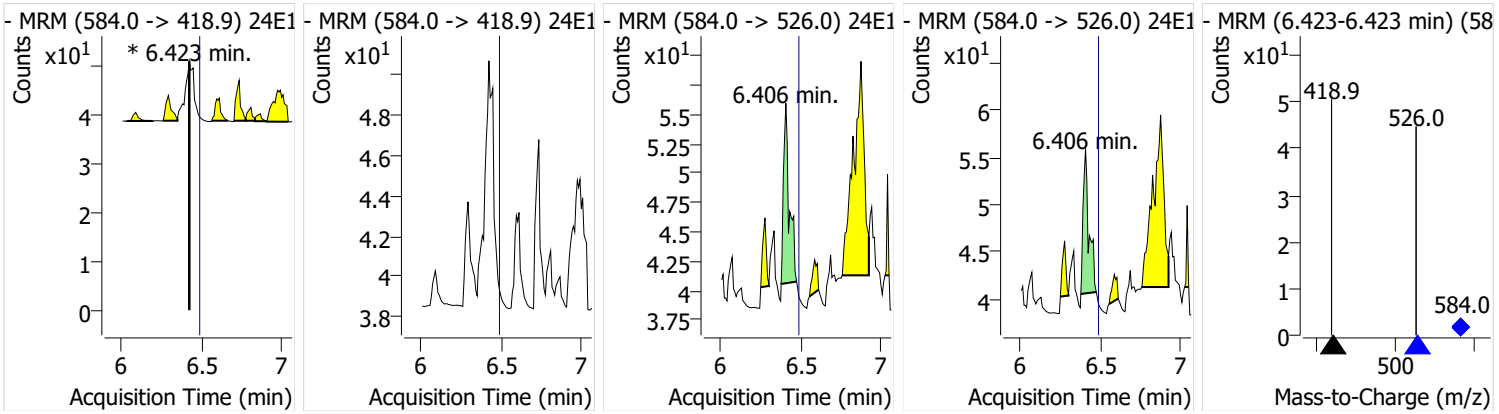

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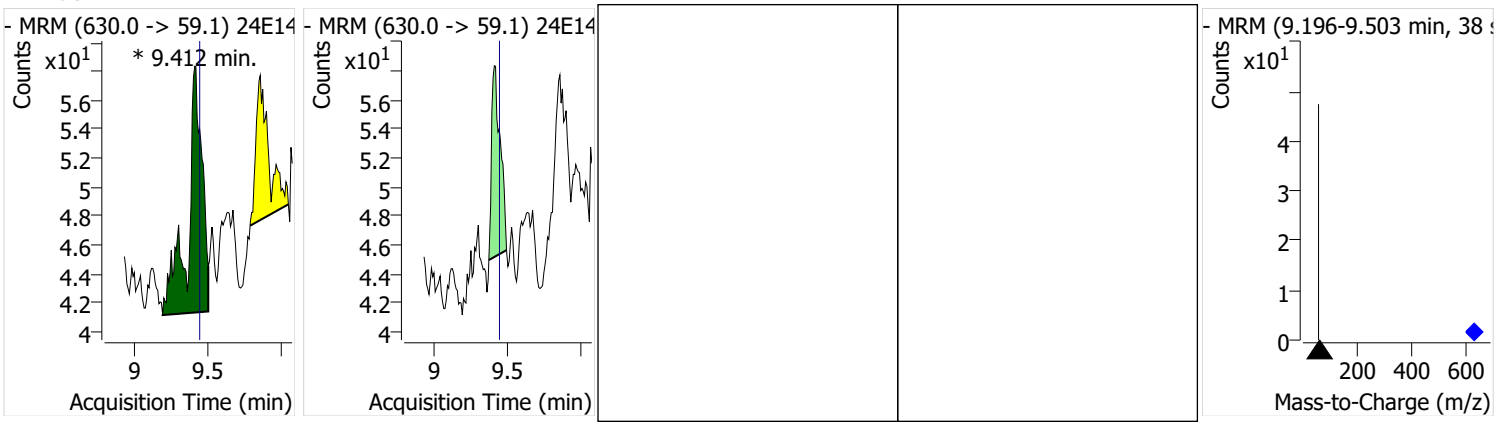

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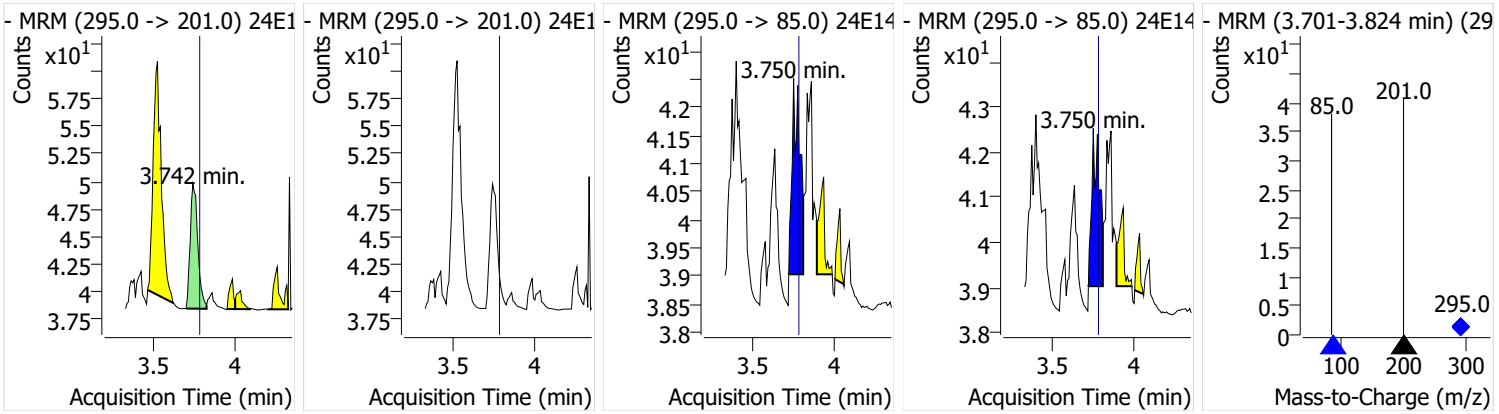

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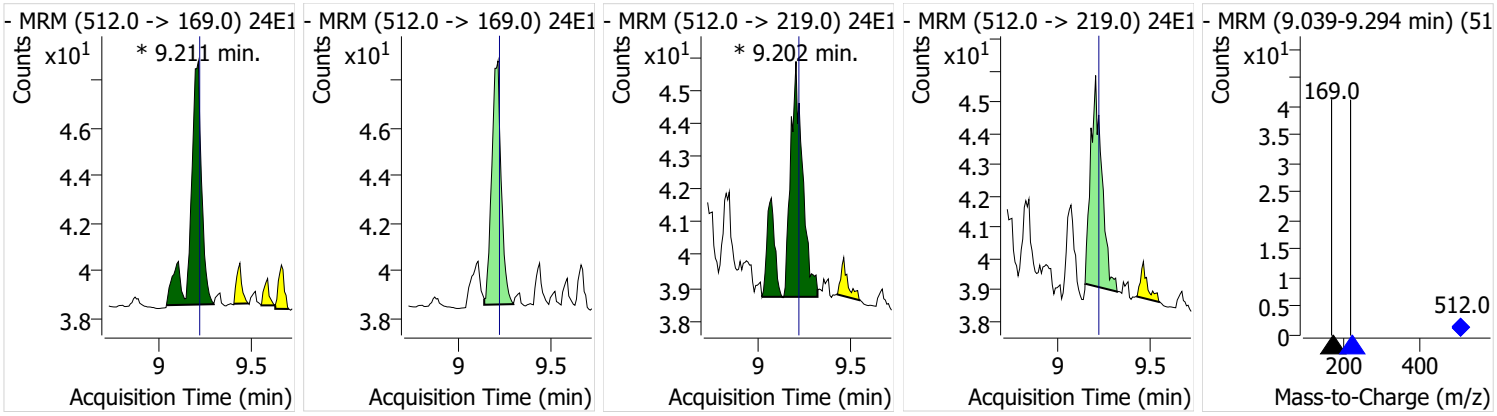

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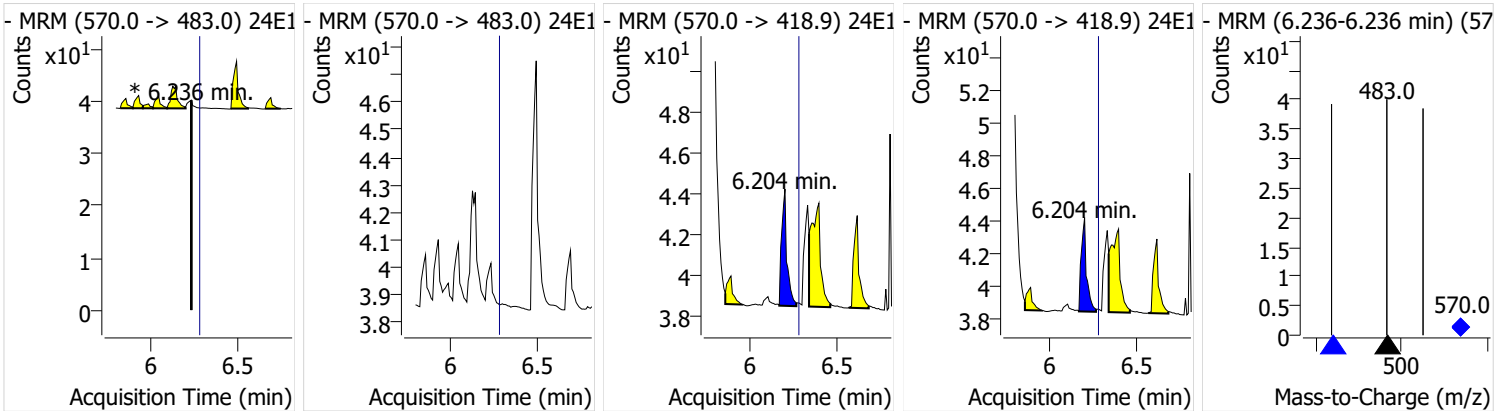

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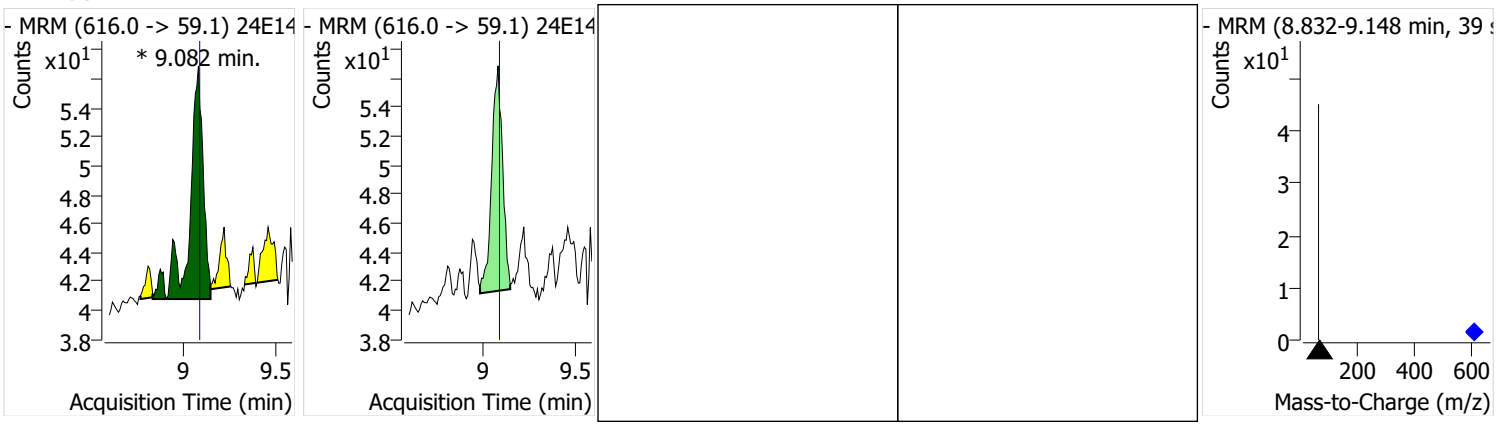

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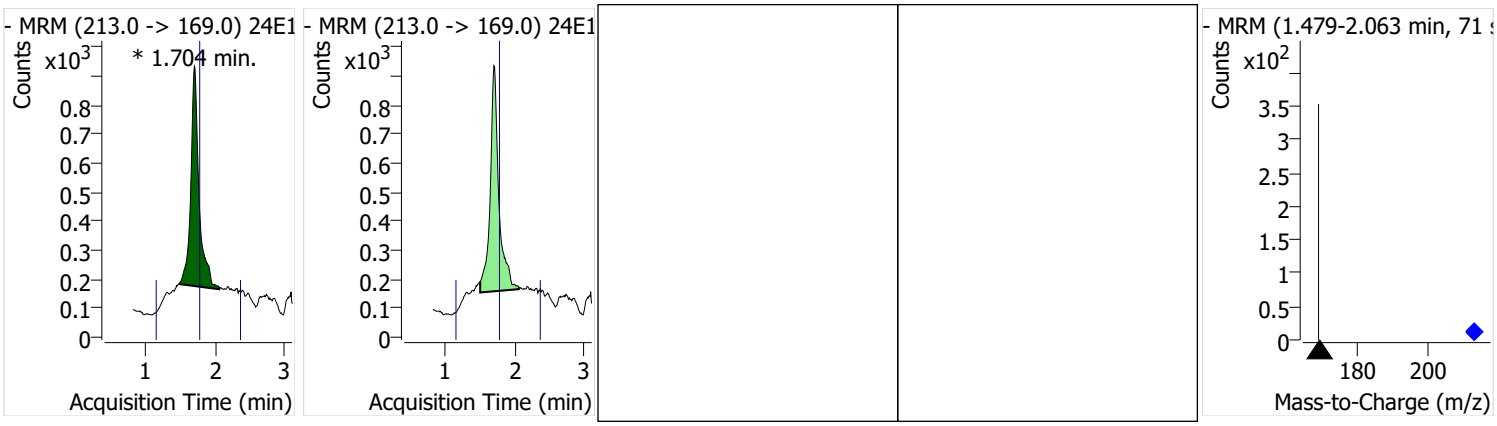

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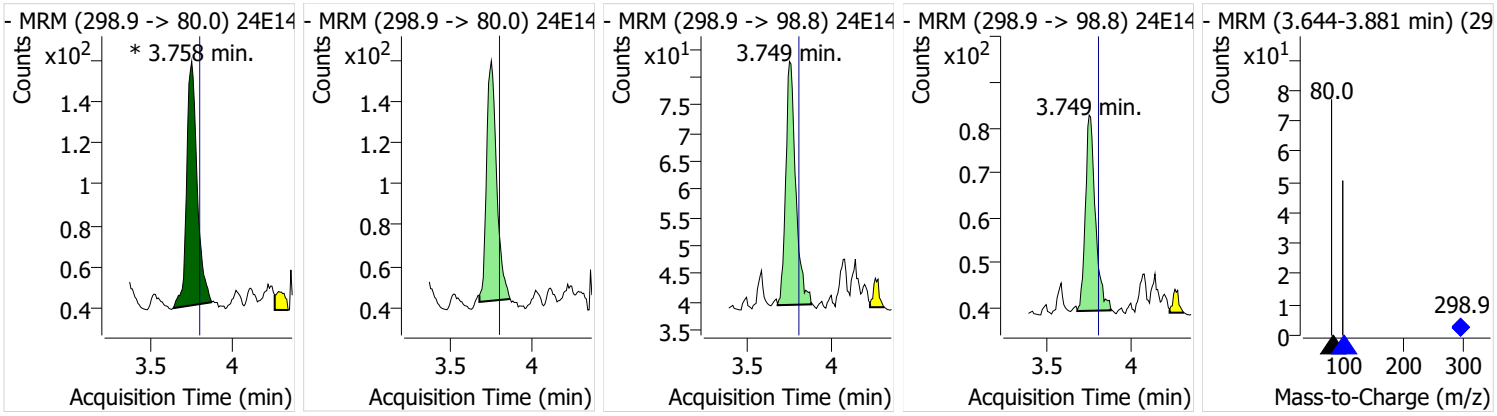

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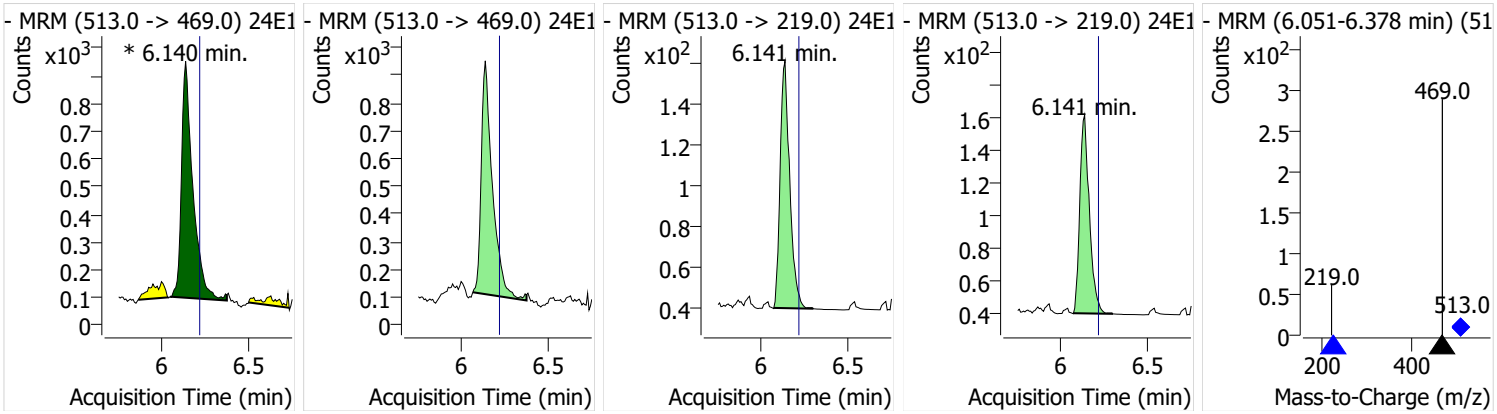

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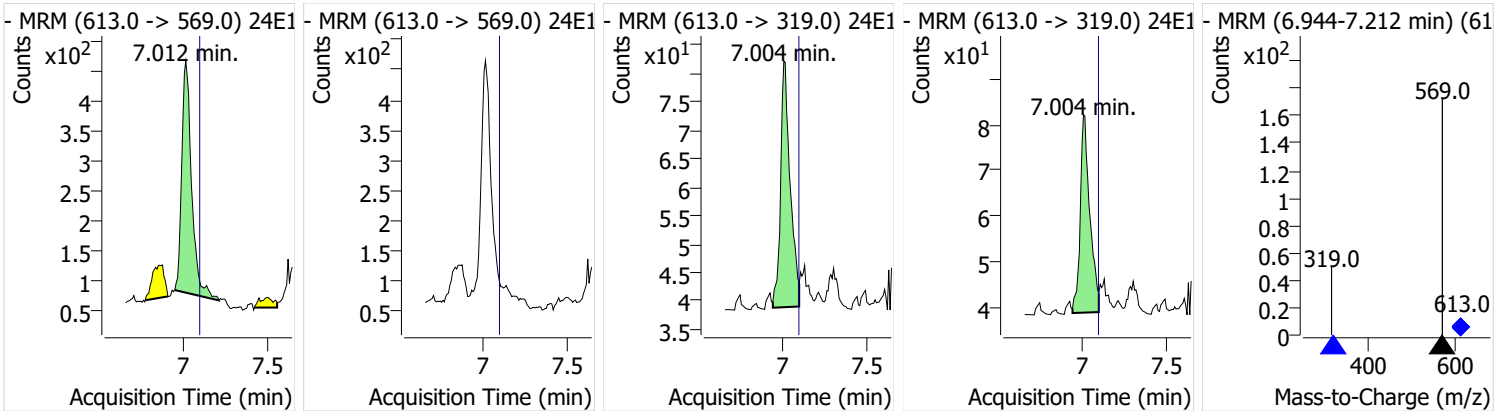

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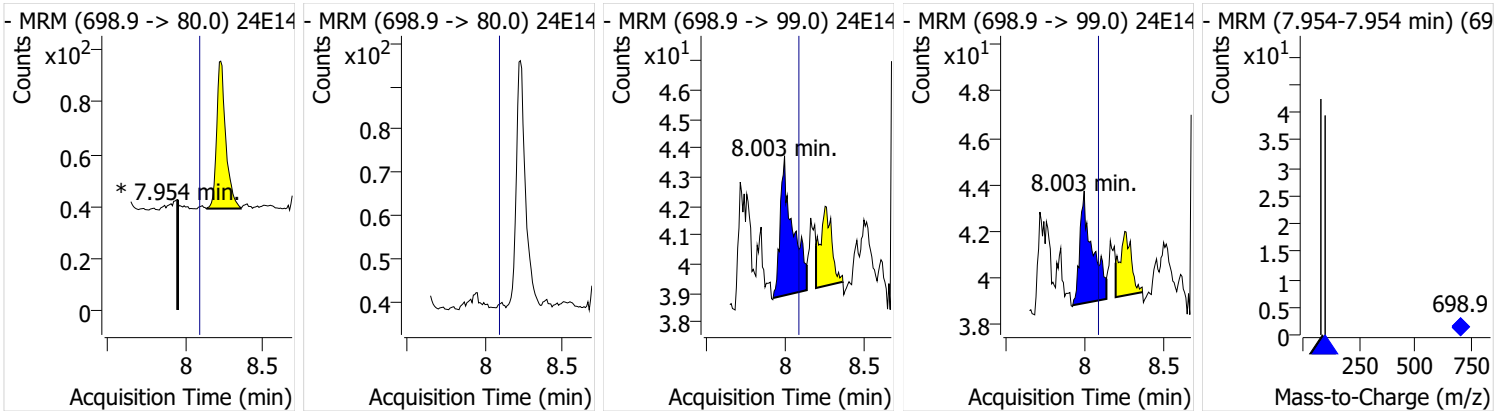

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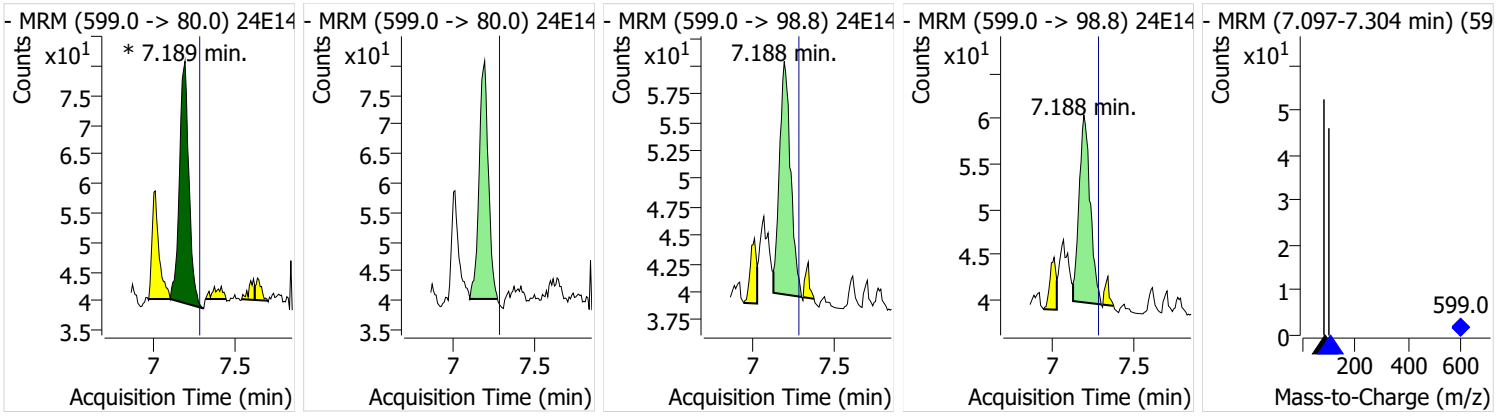

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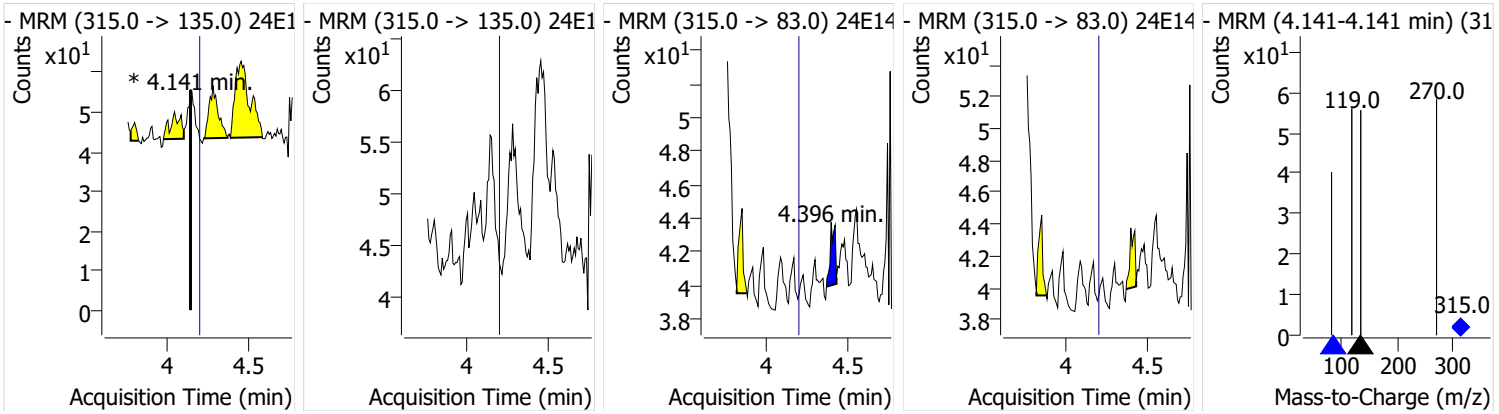

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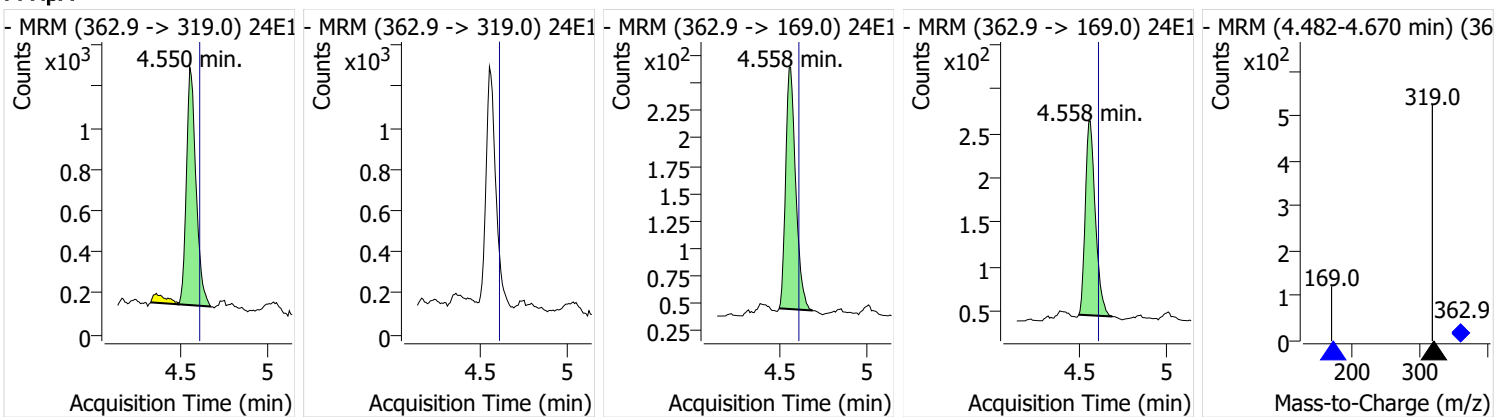

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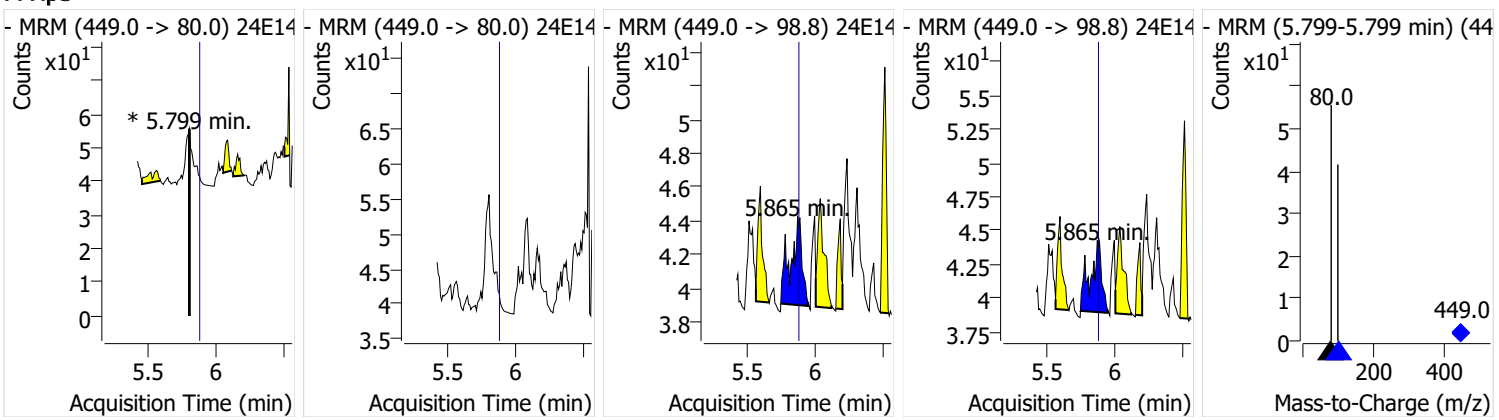

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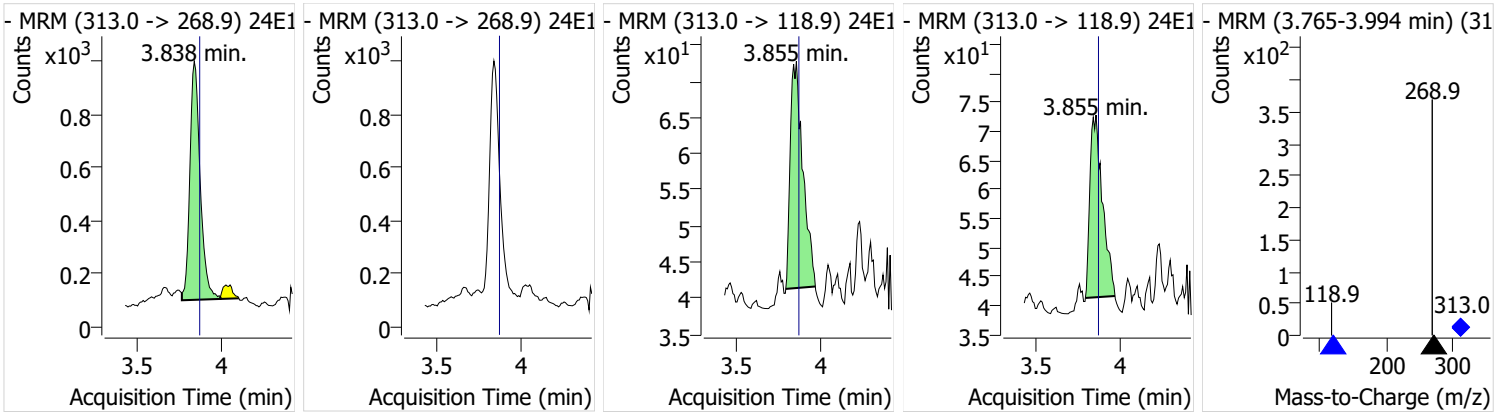

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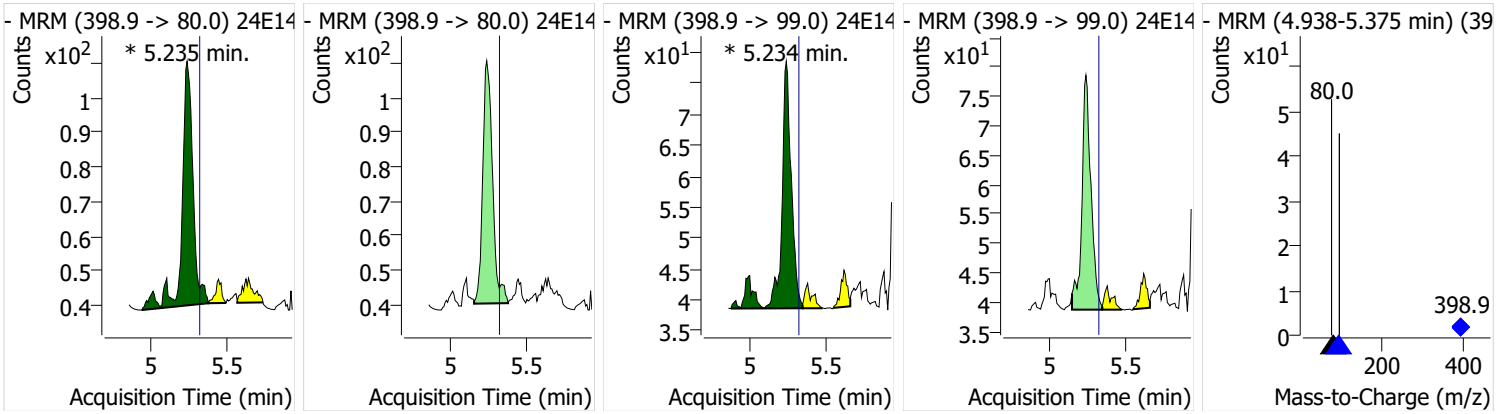

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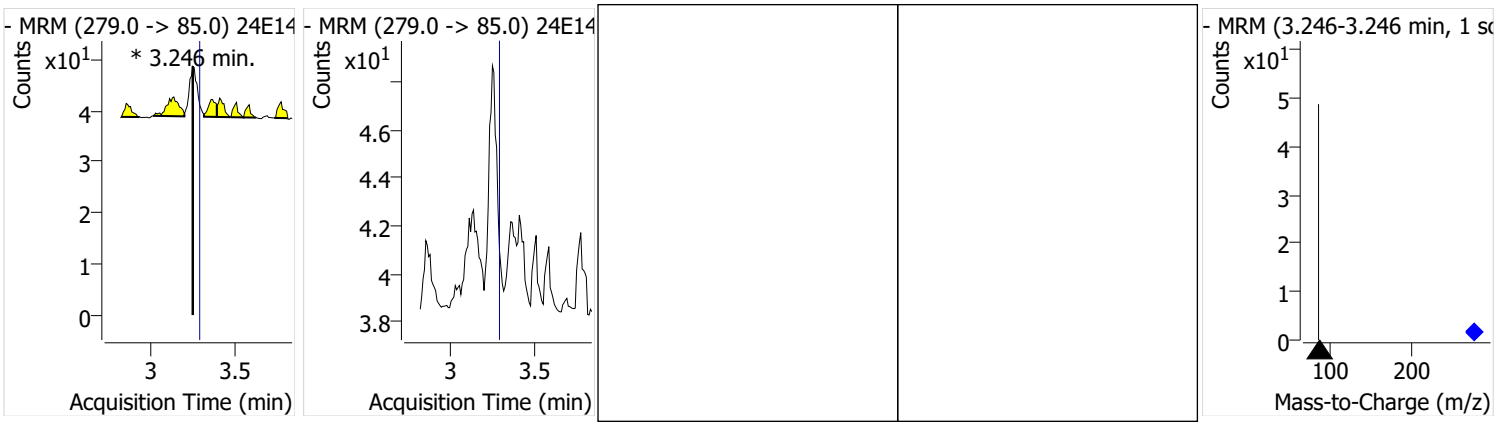

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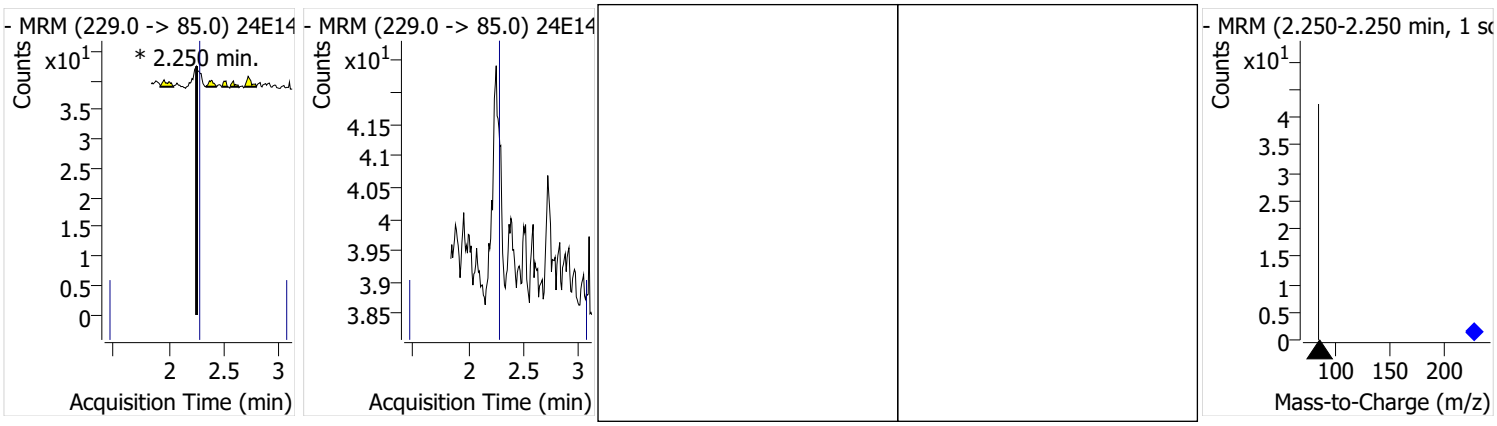

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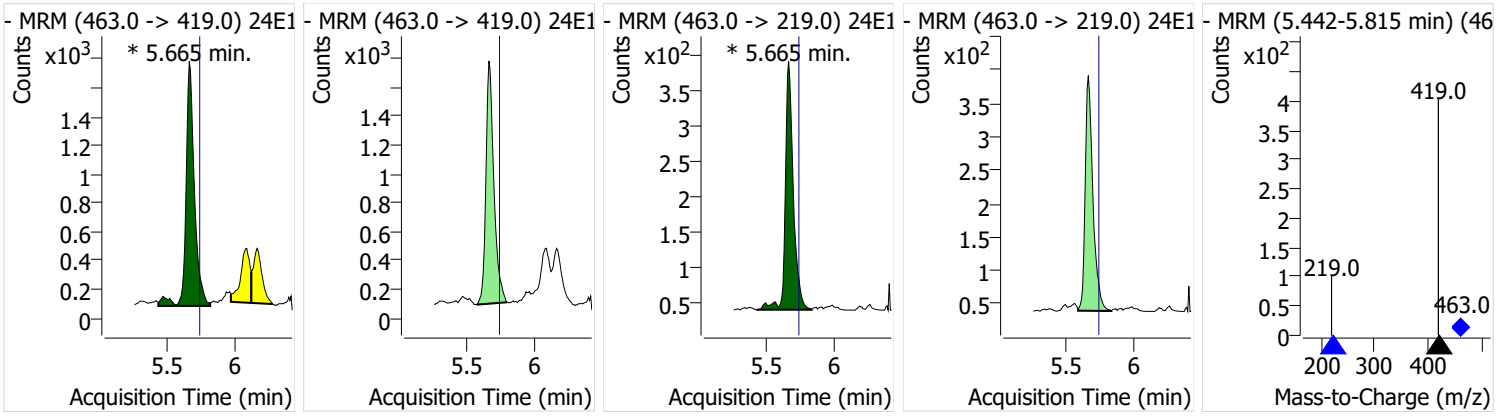

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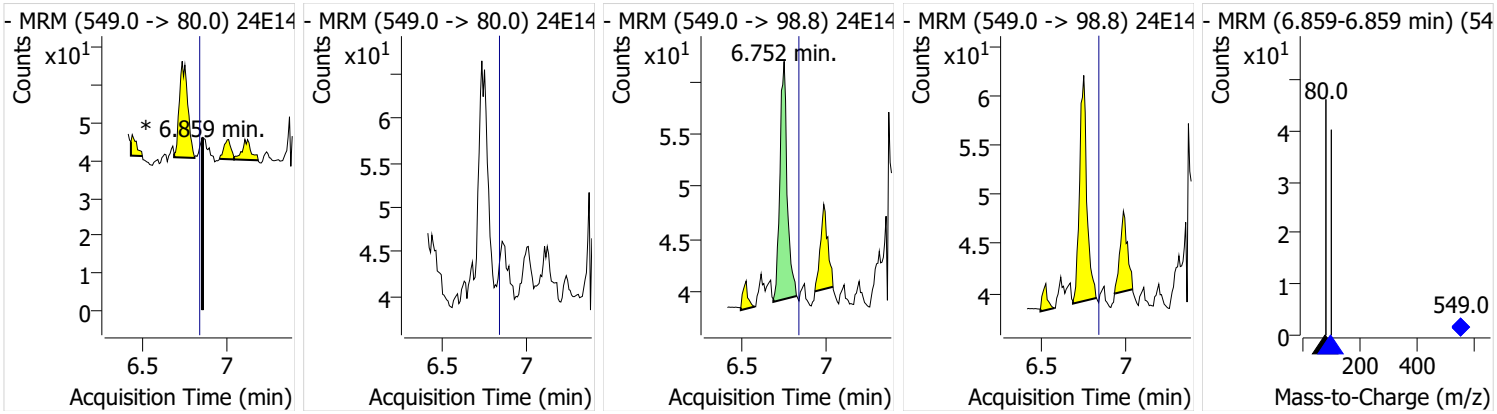

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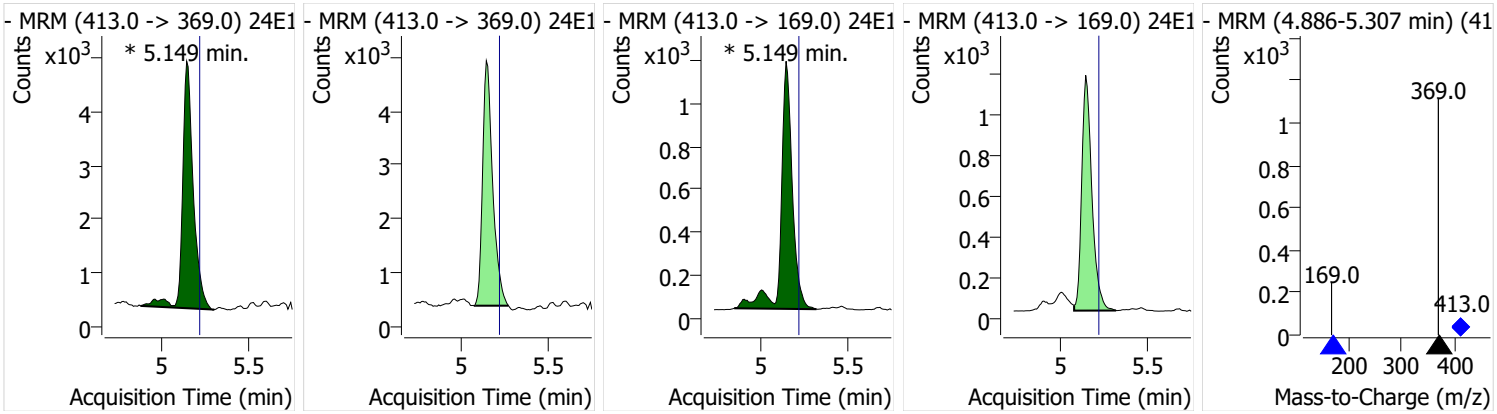

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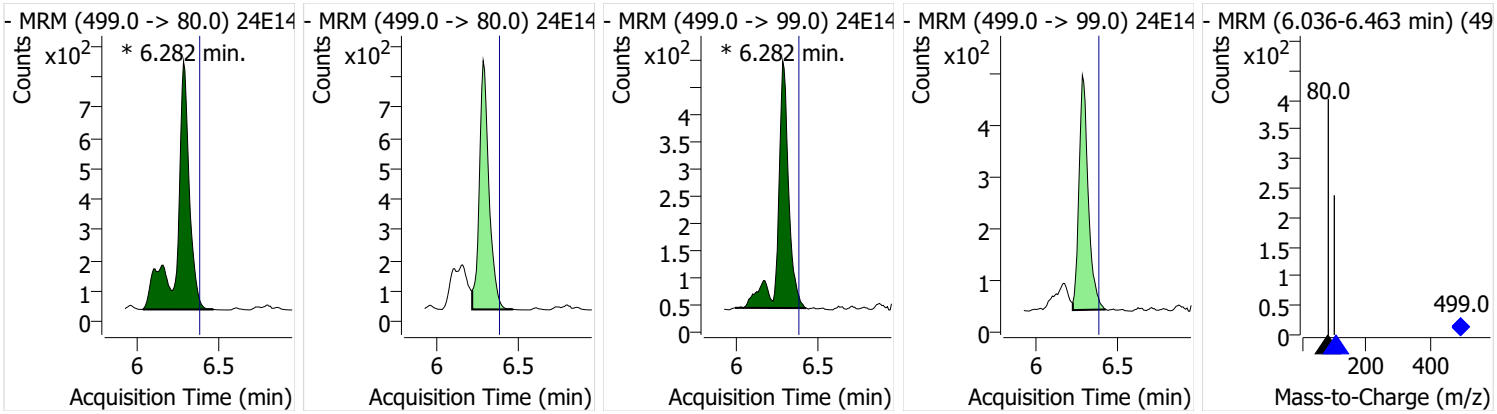

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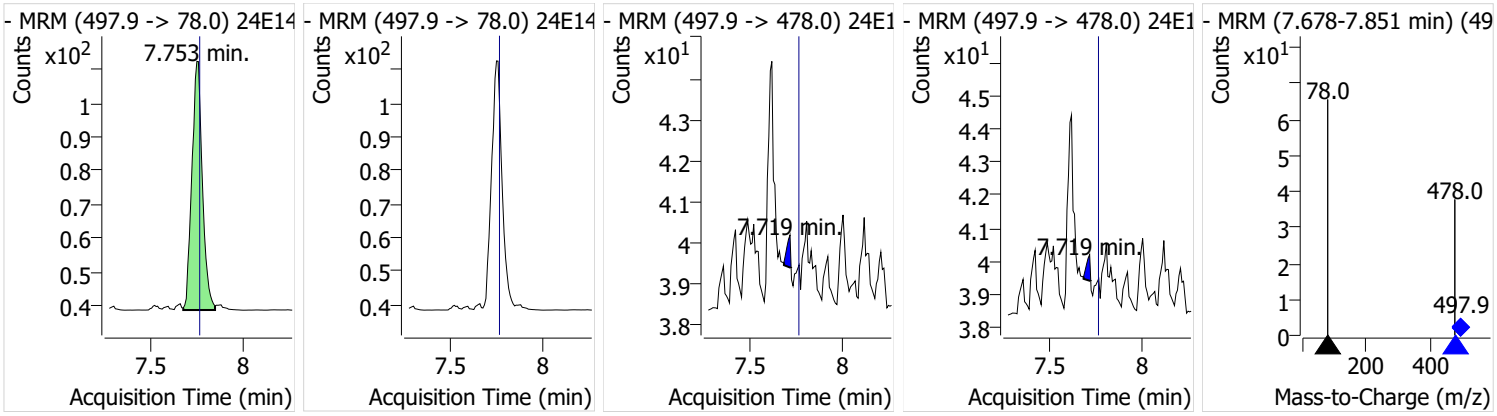

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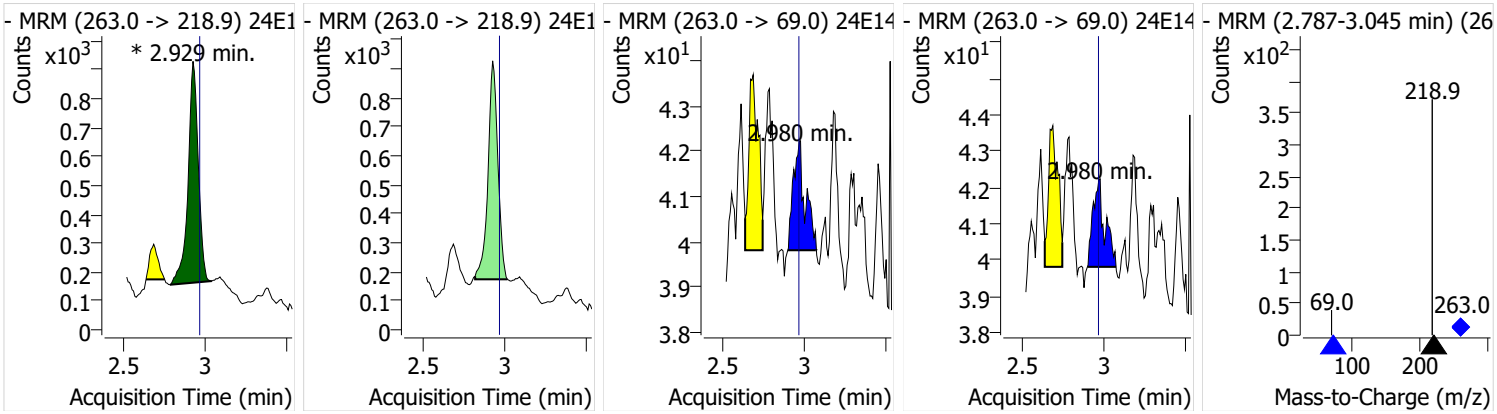

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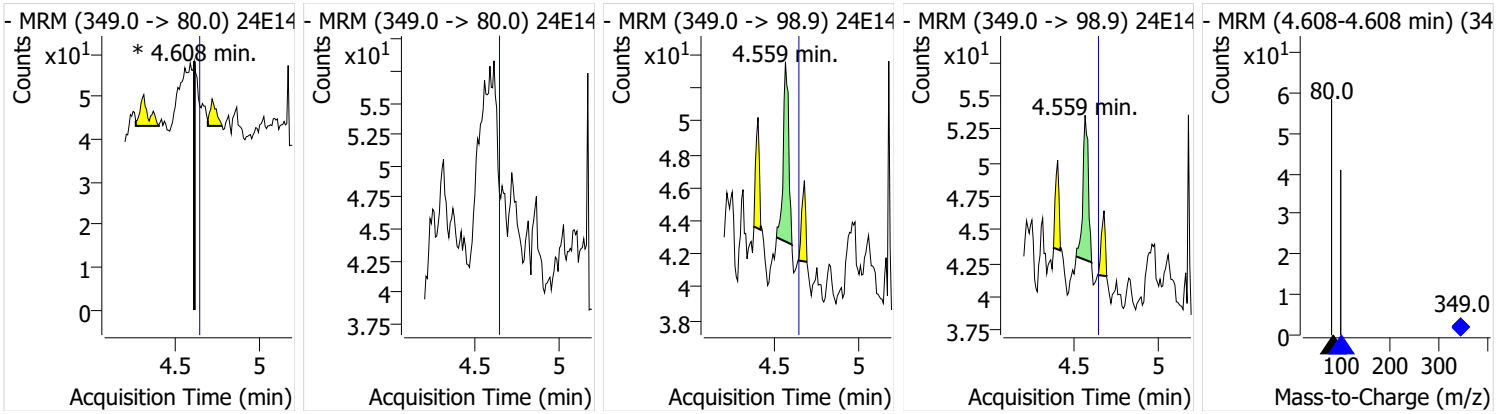

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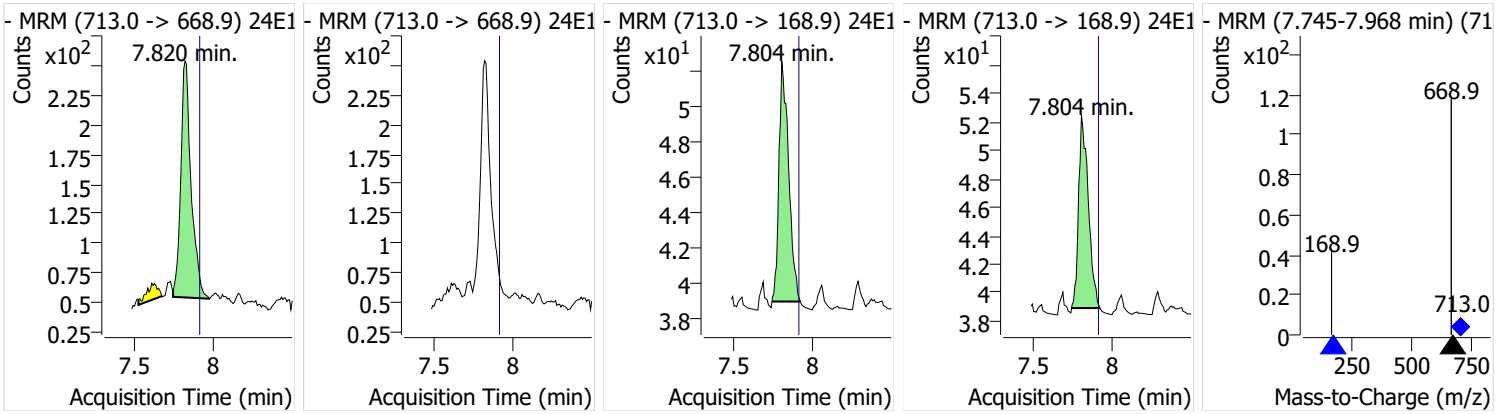

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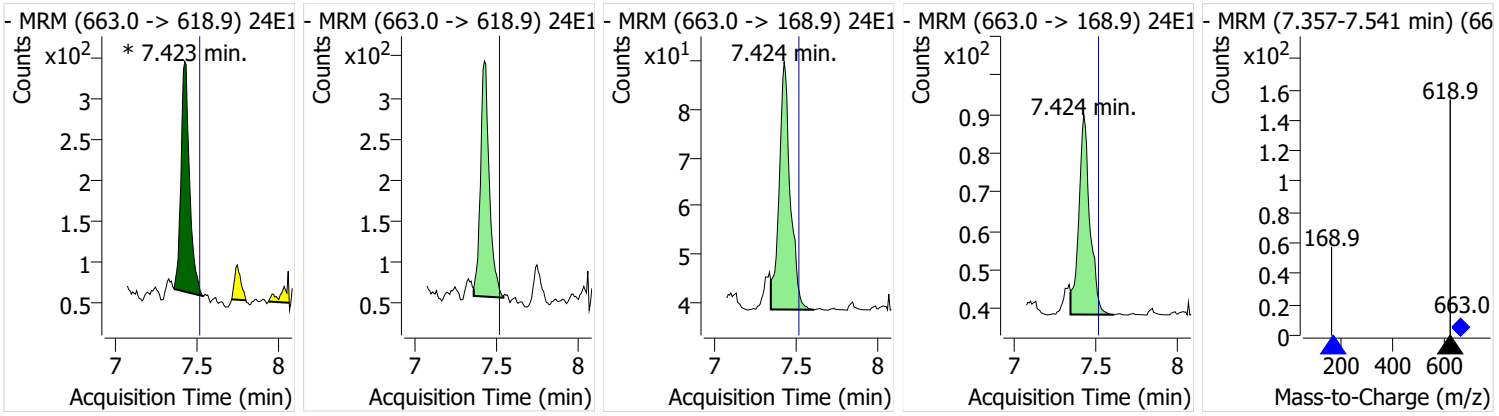
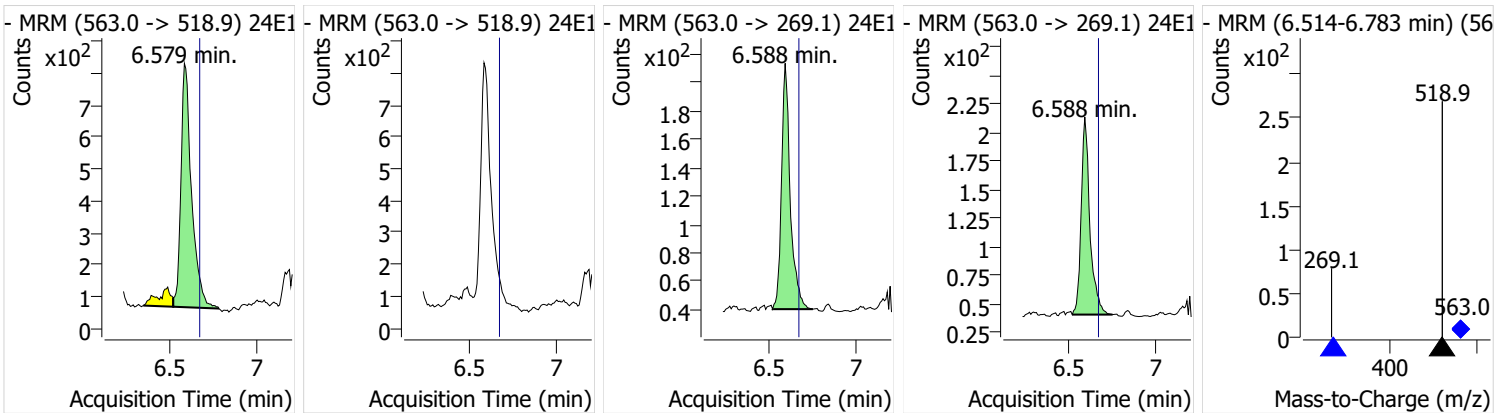


PFUnA



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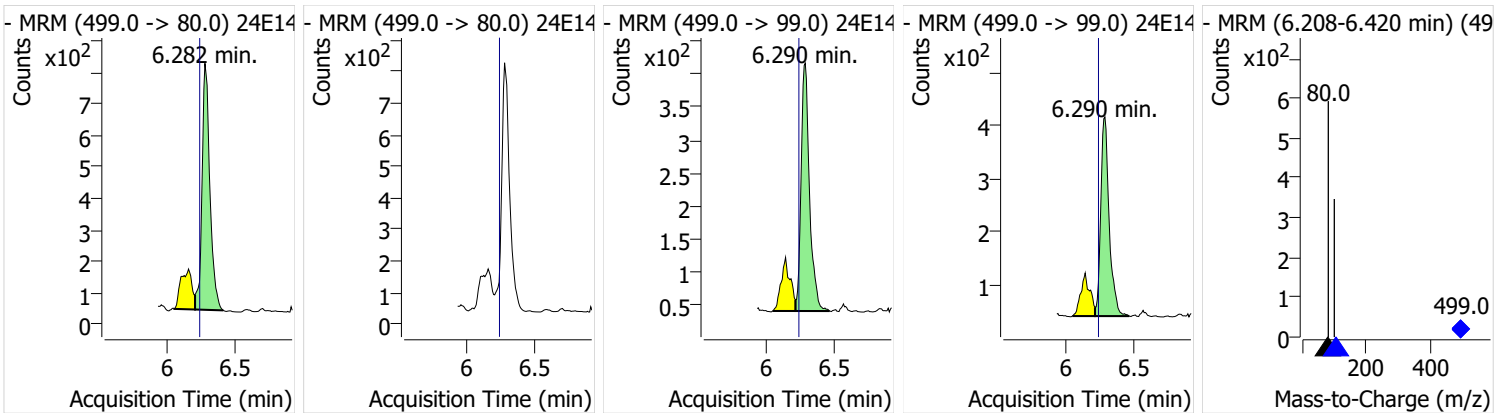

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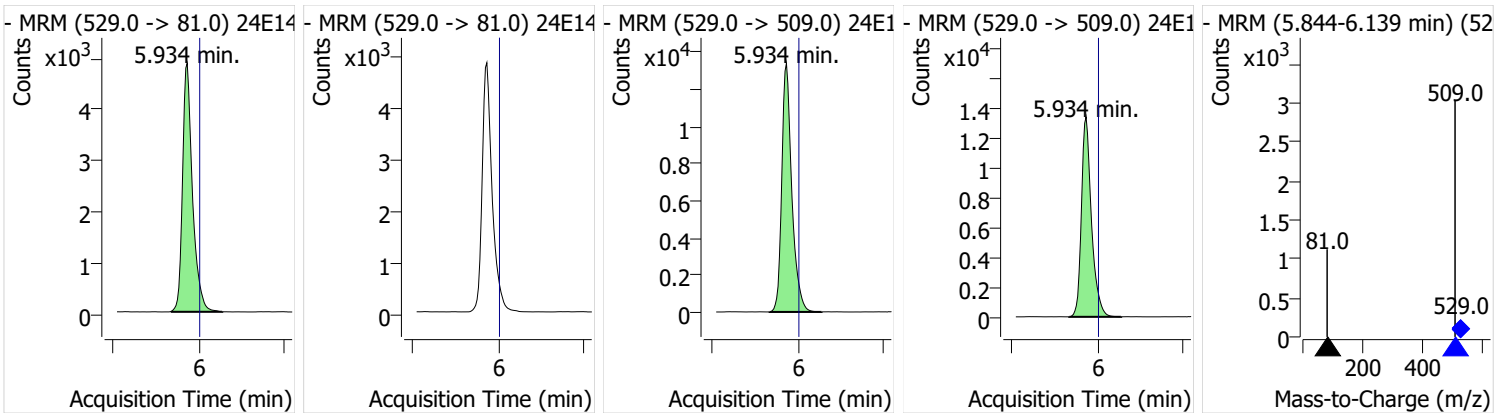
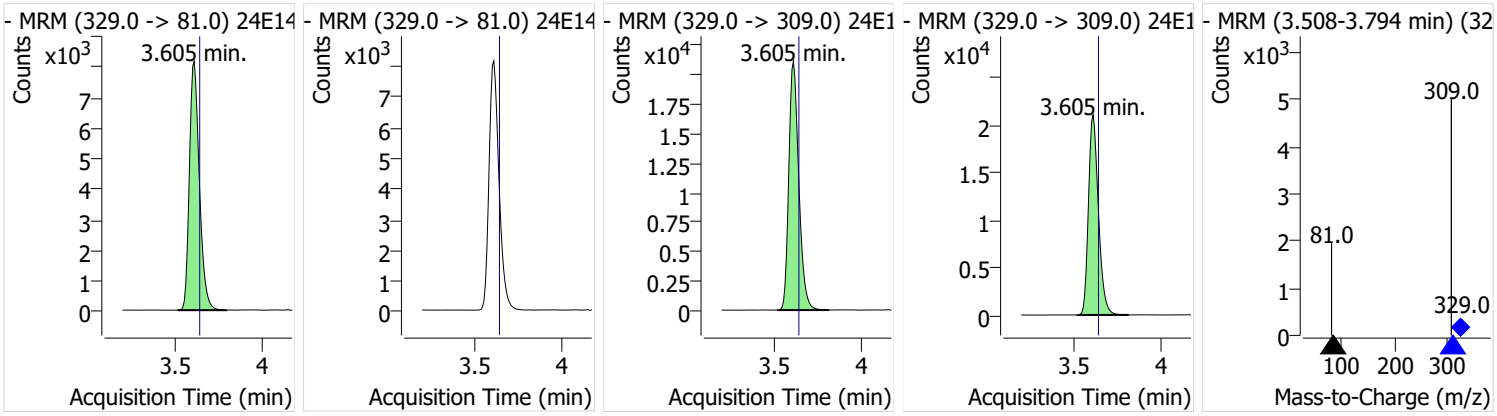


13C2-4:2FTS



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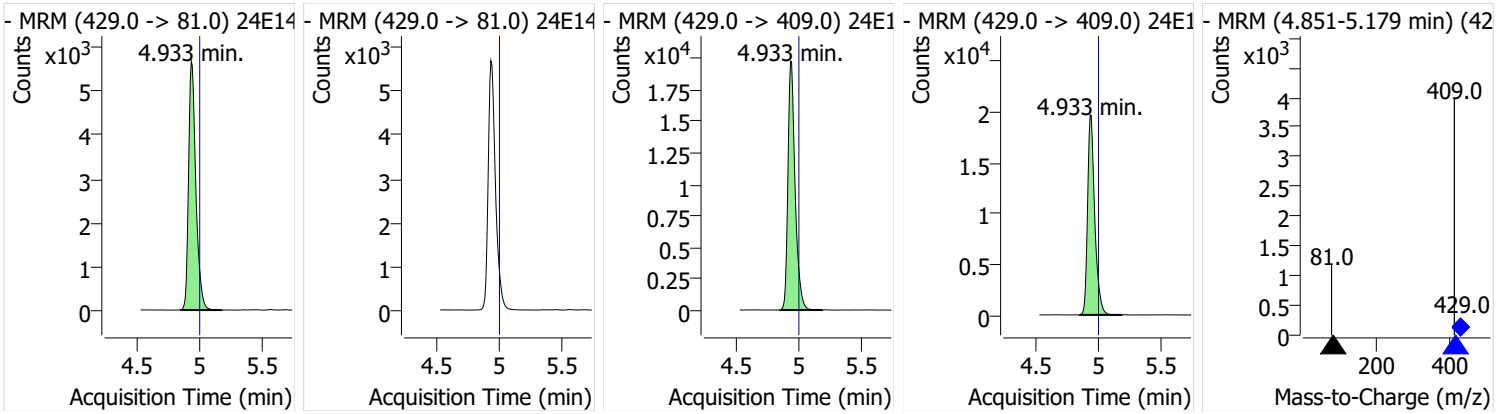

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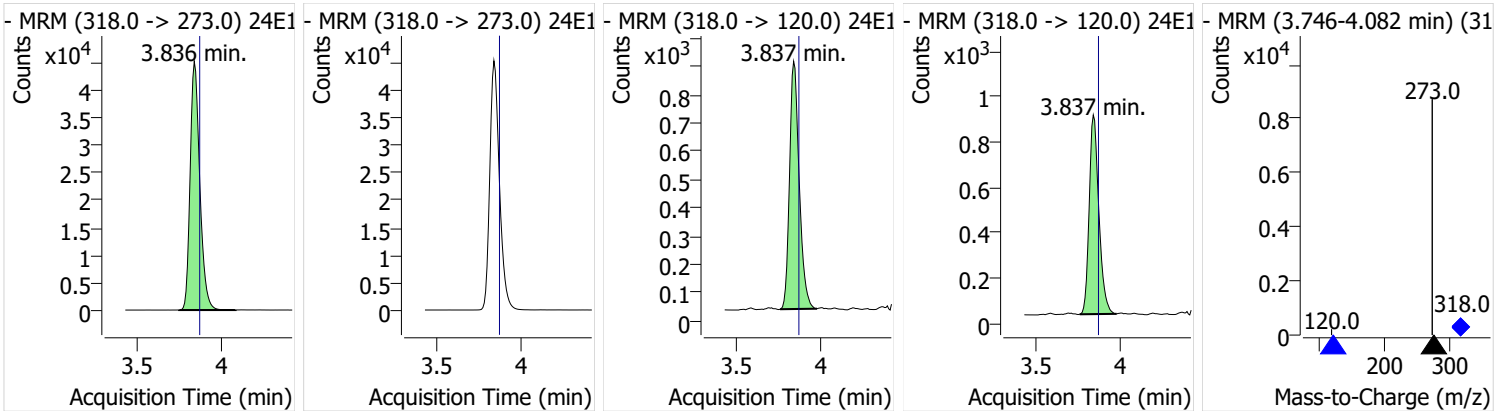
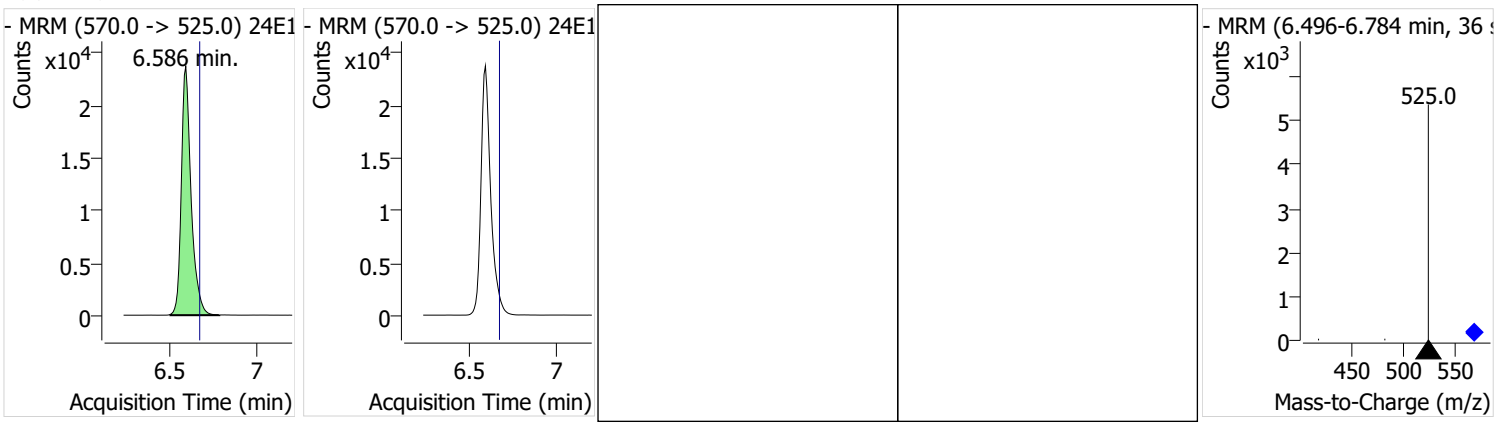


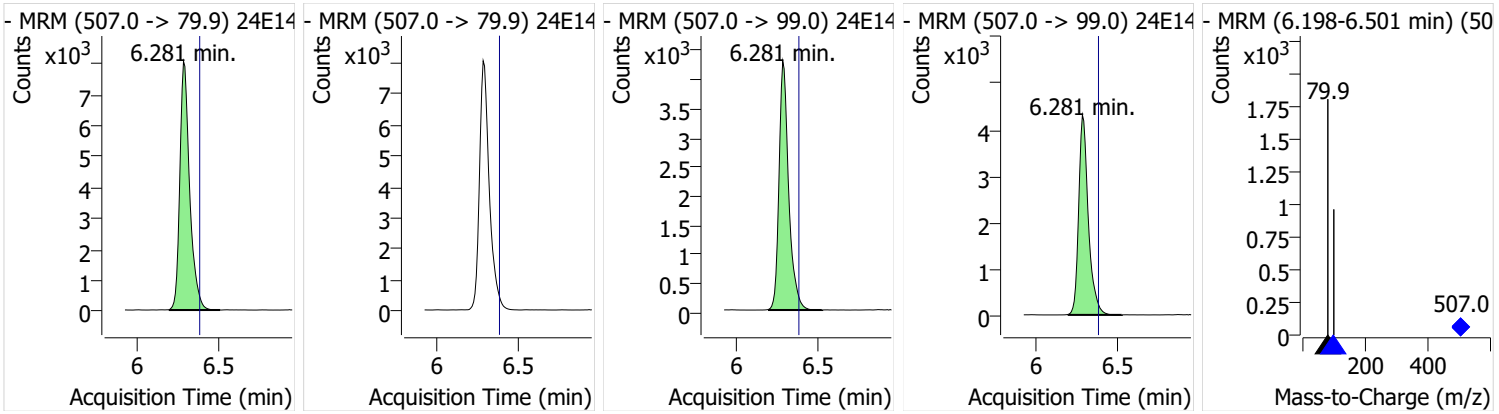
13C6-PFDA

13C7-PFUnA



13C8-PFOA

13C8-PFOS



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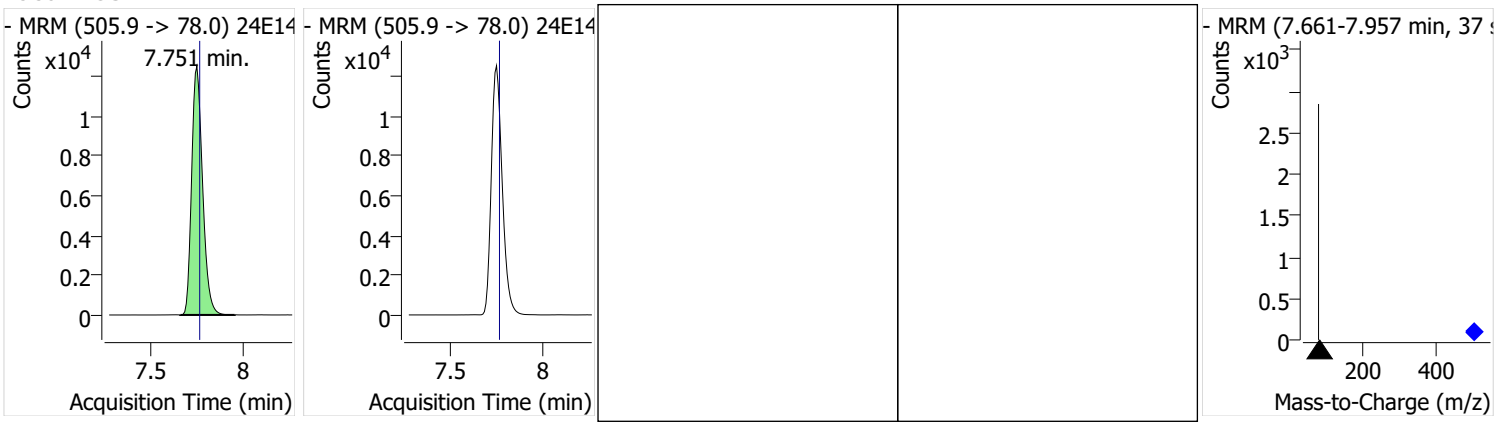

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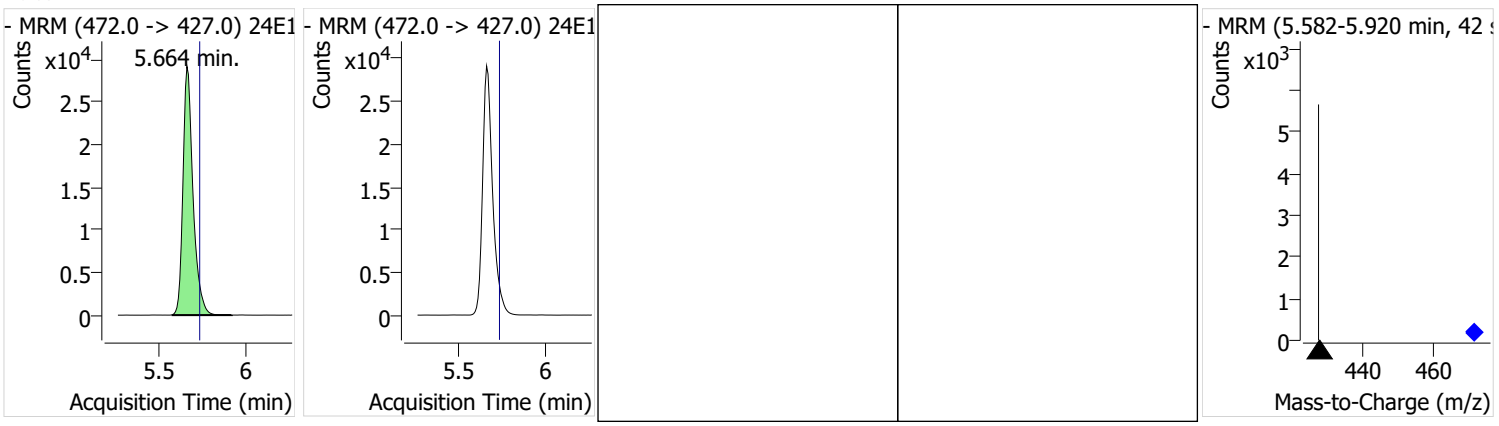

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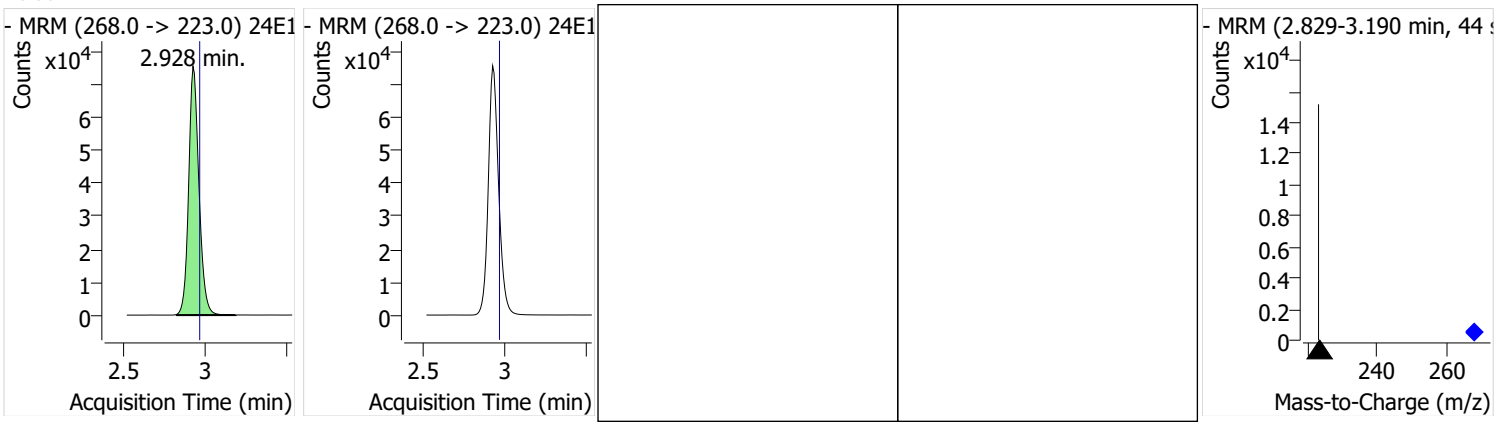

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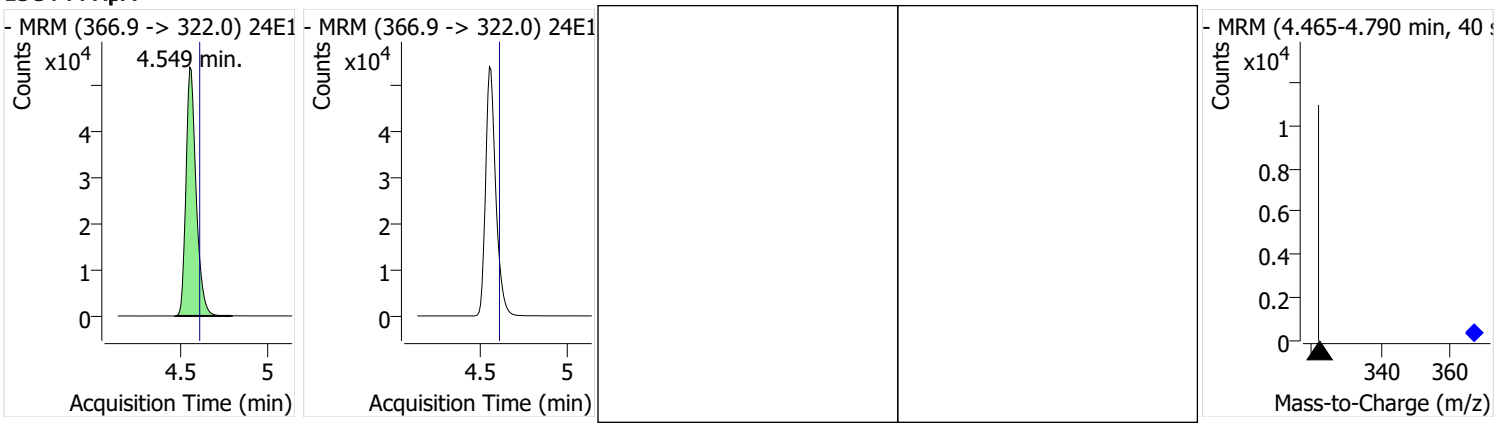

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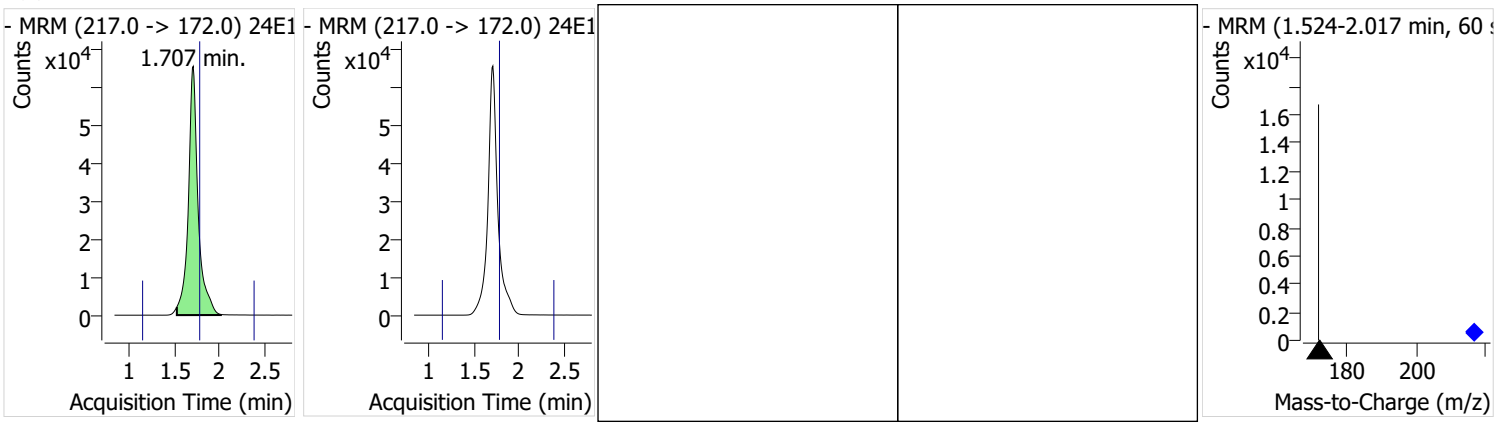

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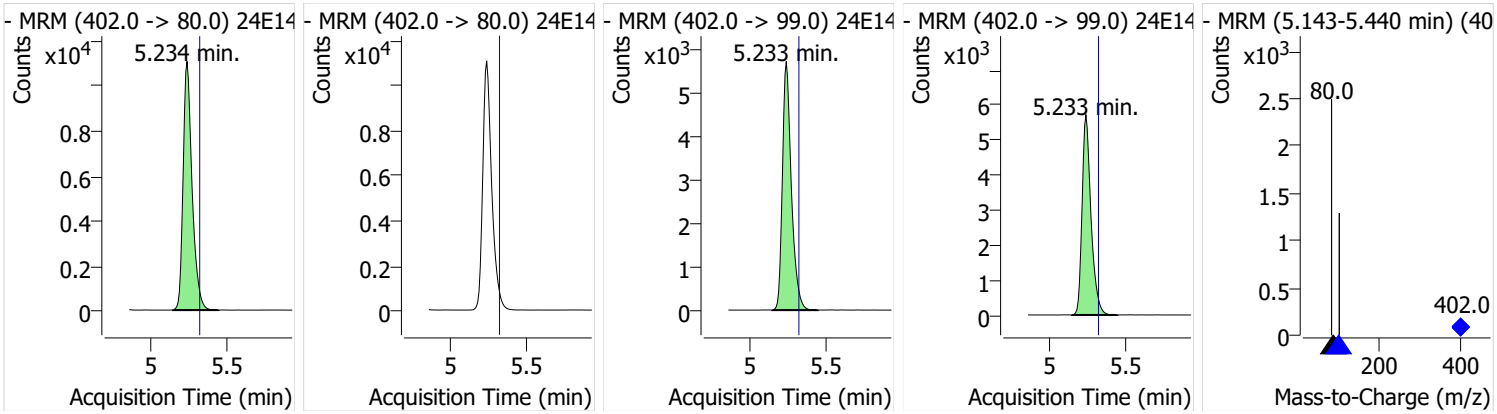

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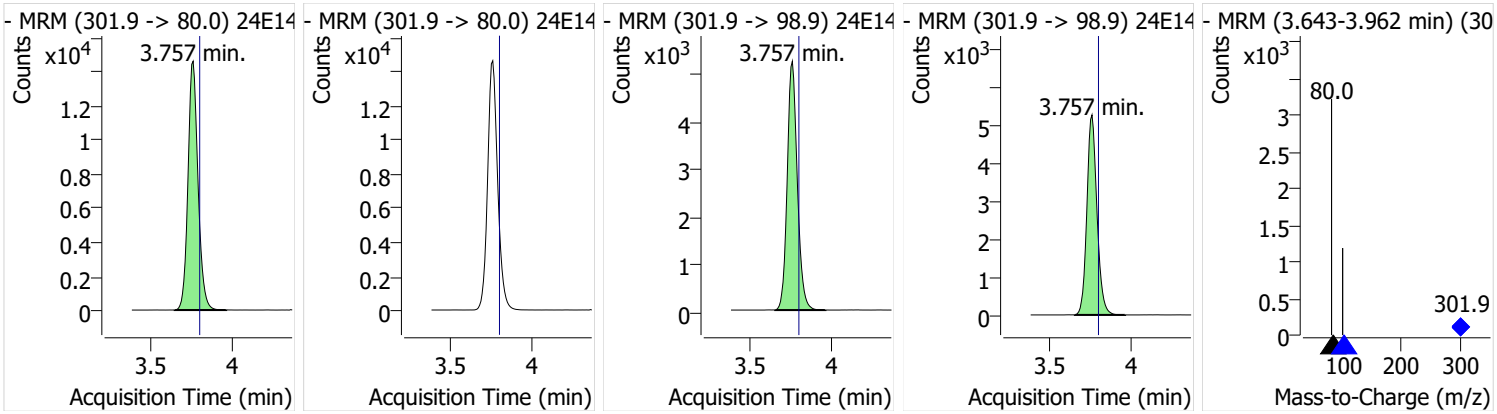

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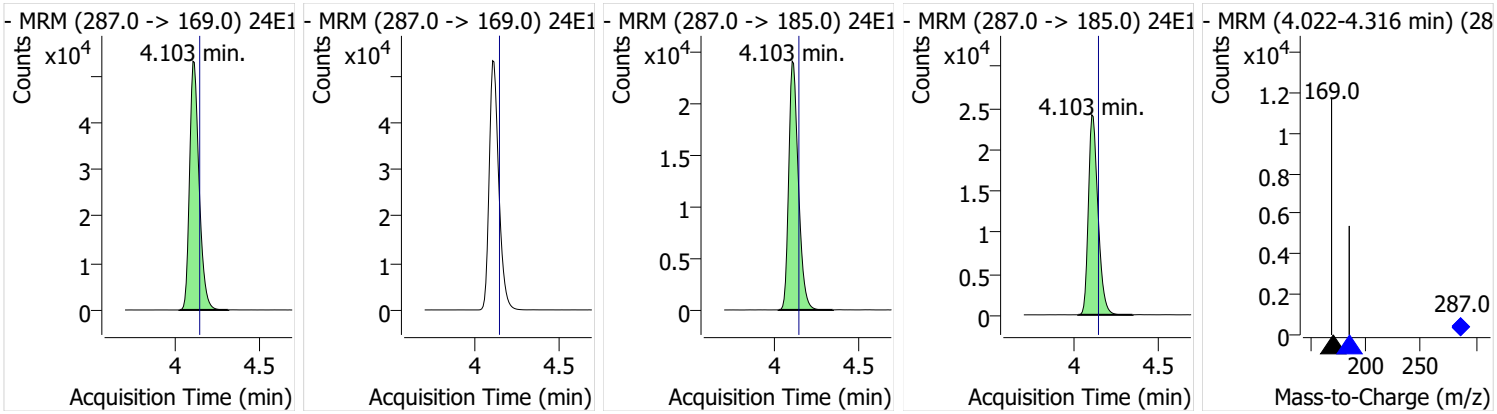

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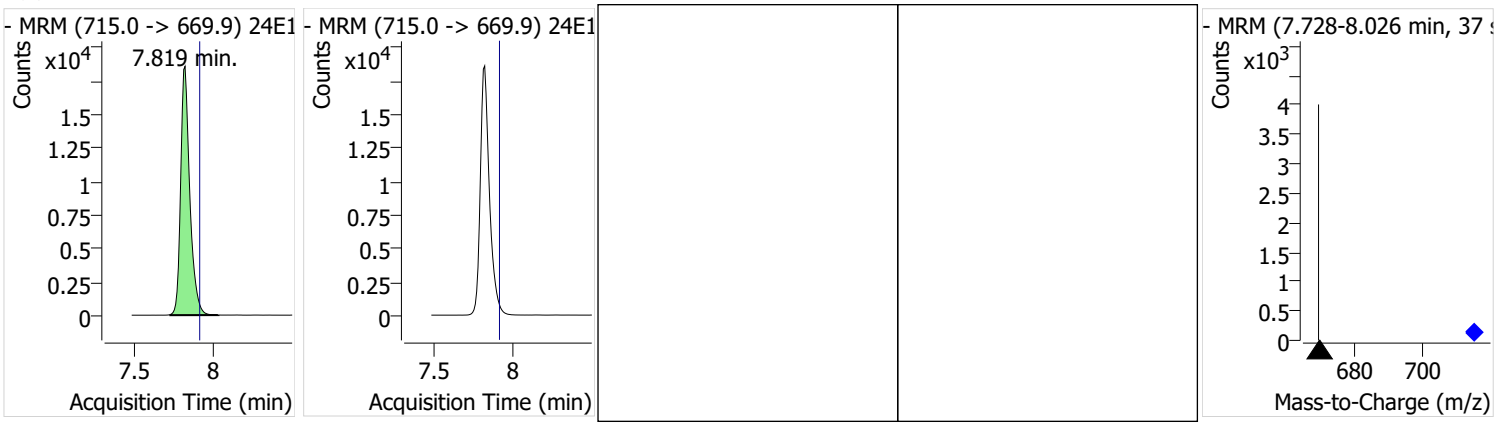

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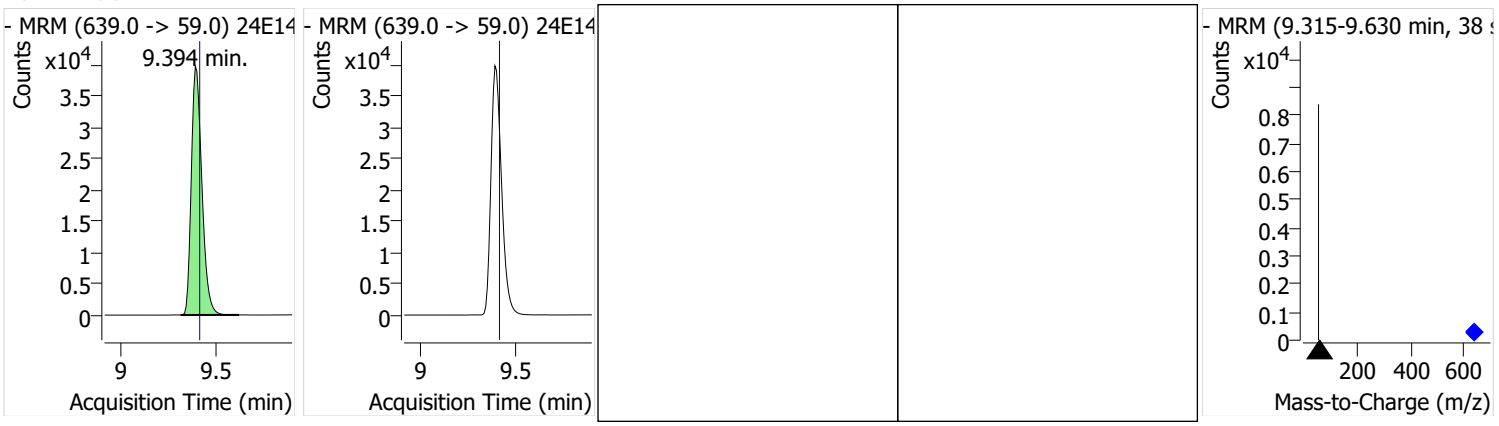
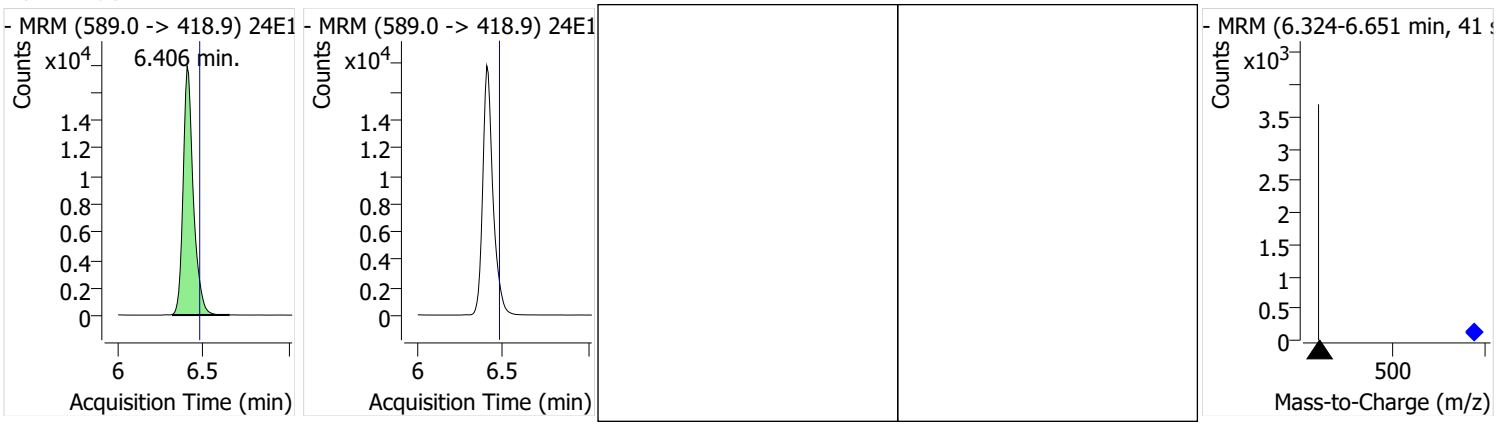


D3-NMeFOSA

D3-NMeFOSAA

D5-NEtFOSA

D5-NEtFOSAA



D7-NMeFOSE

1 - FORM I
ANALYSIS DATA SHEET

SB4A

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-12	File ID:	24E1437-12.d
Sampled:	05/08/24 14:53	Prepared:	05/15/24 00:00	Analyzed:	05/18/24 11:11
Solids:	77.87	Preparation:	Draft Method 1633	Dilution:	1
Initial/Final:	6.589 g / 5 mL				
Batch:	B374213	Sequence:	S104823	Calibration:	2400518
				Instrument:	QQQ6

CAS NO.	COMPOUND	CONC. (µg/kg dry)	MDL	RL	Q
375-22-4	Perfluorobutanoic acid (PFBA)		0.32	0.78	
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.10	0.044	0.39	J
307-24-4	Perfluorohexanoic acid (PFHxA)	0.10	0.032	0.19	J
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.081	0.014	0.19	J
335-67-1	Perfluorooctanoic acid (PFOA)	0.33	0.030	0.19	
375-95-1	Perfluorononanoic acid (PFNA)	0.11	0.013	0.19	J
335-76-2	Perfluorodecanoic acid (PFDA)	0.046	0.017	0.19	J
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.048	0.023	0.19	J
307-55-1	Perfluorododecanoic acid (PFDoA)	0.023	0.021	0.19	J
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.023	0.022	0.19	J
376-06-7	Perfluorotetradecanoic acid (PFTeDA)		0.020	0.19	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.035	0.020	0.19	J
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)		0.025	0.19	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)		0.077	0.19	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)		0.021	0.19	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.30	0.031	0.19	
68259-12-1	Perfluorononanesulfonic acid (PFNS)		0.022	0.19	
335-77-3	Perfluorodecanesulfonic acid (PFDS)		0.031	0.19	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)		0.030	0.19	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (		0.068	0.78	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid ((		0.49	0.78	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (		0.091	0.78	
754-91-6	Perfluorooctanesulfonamide (PFOSA)		0.030	0.19	
31506-32-8	N-methyl perfluoroocatnesulfonamide (NMeF		0.024	0.19	
4151-50-2	N-ethyl perfluorooctanesulfonamide (NEtFOS		0.023	0.19	
2355-31-9	N-MeFOSAA (NMeFOSAA)		0.035	0.19	V-05
2991-50-6	N-EtFOSAA (NEtFOSAA)		0.029	0.19	
24448-09-7	N-methylperfluorooctanesulfonamidoethanol(		0.21	1.9	
1691-99-2	N-ethylperfluorooctanesulfonamidoethanol (N		0.21	1.9	
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPC		0.050	0.78	

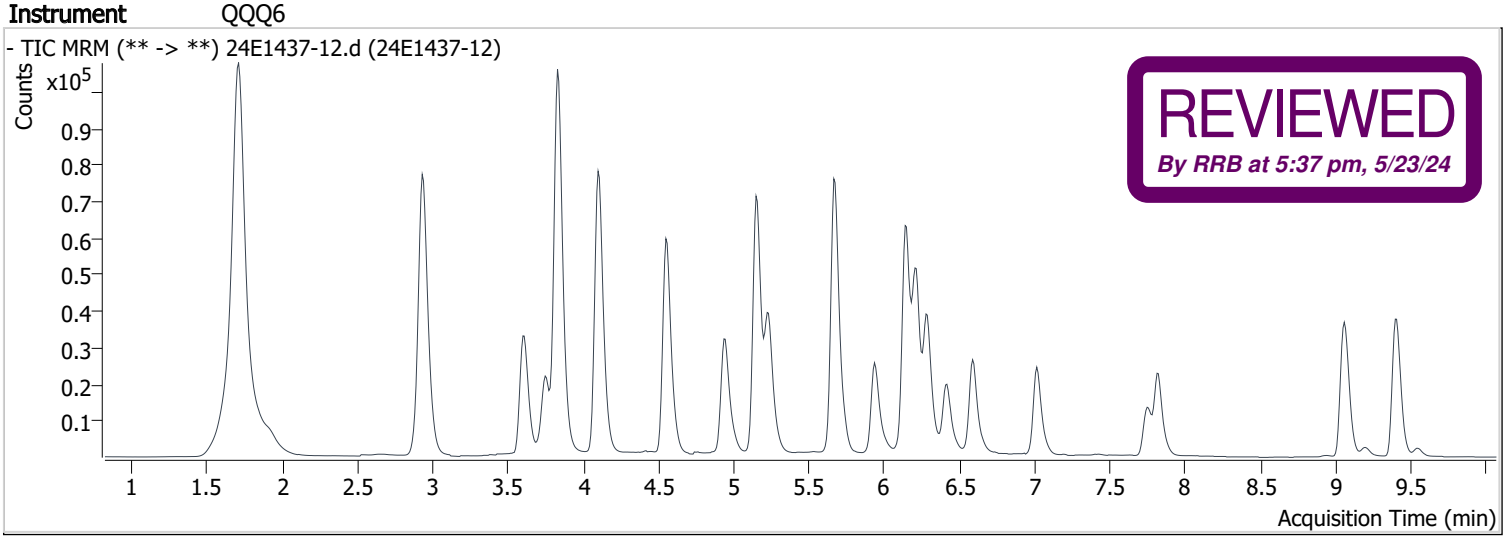
1 - FORM I
ANALYSIS DATA SHEET

SB4A

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-12	File ID:	24E1437-12.d
Sampled:	05/08/24 14:53	Prepared:	05/15/24 00:00	Analyzed:	05/18/24 11:11
Solids:	77.87	Preparation:	Draft Method 1633	Dilution:	1
Initial/Final:	6.589 g / 5 mL				
Batch:	B374213	Sequence:	S104823	Calibration:	2400518
Instrument:	QQQ6				

CAS NO.	COMPOUND	CONC. (µg/kg dry)	MDL	RL	Q
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADON		0.058	0.78	
756426-58-1	9Cl-PF3ONS (F53B Minor)		0.056	0.78	
763051-92-9	11Cl-PF3OUdS (F53B Major)		0.086	0.78	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)(3:3		0.19	1.9	
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)		1.3	9.7	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)(7:3		1.5	9.7	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEE		0.031	0.39	
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)		0.032	0.39	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)		0.032	0.39	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)		0.059	0.39	

Batch Path	R:\Data\MAY2024\051724\QuantResults\B374213.batch.bin		
Analysis Time	5/23/2024 5:54 AM	**Last Calib Update**	5/9/2024 9:16 AM
Acq. Time	5/18/2024 11:11 AM	**Data File**	24E1437-12.d
Sample Type	Sample	**Sample Name**	24E1437-12
Dilution	1	**Acq. Method**	1633_ACQUISITION_01.m
Sample Comment		**Processing method**	1633_050824.m
Instrument	QQQ6		



Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
11Cl-PF3OUdS	7.526	0			13C3-HFPODA - ISTD	4.103	210738	-	ng/ml	✔	1	ALB 5/22/24
633.0 -> 453.0				*								
3:3FTCA	2.665	0			13C5-PFPeA - ISTD	2.928	342485	-	ng/ml	✔	1	ALB 5/22/24
241.0 -> 117.0				*								
4:2FTS	3.696	0			13C2-4:2FTS - ISTD	3.597	38384	-	ng/ml	✔	1	ALB 5/22/24
327.0 -> 80.9				*								
5:3FTCA	4.277	0			13C5-PFHxA - ISTD	3.828	189196	-	ng/ml	✔	1	ALB 5/22/24
341.0 -> 217.0				*								
6:2FTS	4.934	317	20.96		13C2-6:2FTS - ISTD	4.933	29297	0.0159	ng/ml	✔	3	ALB 5/22/24
427.0 -> 80.9			8.27	38.8								
7:3FTCA	5.674	0			13C5-PFHxA - ISTD	3.828	189196	-	ng/ml	✔	1	ALB 5/22/24
441.0 -> 317.0				*								
8:2FTS	5.951	66	56.76		13C2-8:2FTS - ISTD	5.934	26211	0.0049	ng/ml			
527.0 -> 81.0			4.49	38.1								
9Cl-PF3ONS	6.655	0			13C3-HFPODA - ISTD	4.103	210738	-	ng/ml	✔	1	ALB 5/22/24
533.0 -> 353.0				*								
ADONA	4.864	0			13C3-HFPODA - ISTD	4.103	210738	-	ng/ml	✔	1	ALB 5/22/24
377.0 -> 85.1				*								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA	4.088	0			13C3-HFPODA - ISTD	4.103	210738	-	ng/ml	✔	1	ALB 5/22/24
285.0 -> 184.9				*								
NEtFOSA	9.589	0			D5-NEtFOSA - ISTD	9.546	7758	-	ng/ml	✔	1	ALB 5/22/24
526.0 -> 219.0				*								
NEtFOSAA	6.455	0			D5-NEtFOSAA - ISTD	6.414	75970	-	ng/ml	✔	1	ALB 5/22/24
584.0 -> 526.0				*								
NEtFOSE	9.436	0			D9-NEtFOSE - ISTD	9.394	151079	-	ng/ml	✔	1	ALB 5/22/24
NFDHA	3.758	0			13C5-PFHxA - ISTD	3.828	189196	-	ng/ml	✔	1	ALB 5/22/24
295.0 -> 85.0				*								
NMeFOSA	9.228	0			D3-NMeFOSA - ISTD	9.201	8925	-	ng/ml	✔	1	ALB 5/22/24
512.0 -> 219.0				*								
NMeFOSAA	6.269	0			D3-NMeFOSAA - ISTD	6.211	162893	-	ng/ml	✔	1	ALB 5/22/24
570.0 -> 418.9				*								
NMeFOSE	8.951	68	7.12		D7-NMeFOSE - ISTD	9.057	150102	0.0105	ng/ml	✔	3	ALB 5/22/24
PFBA	1.712	9291	178.47		13C4-PFBA - ISTD	1.707	535674	0.1879	ng/ml	✔	3	ALB 5/22/24
PFBS	3.750	1162	87.77		13C3-PFBS - ISTD	3.749	64751	0.0360	ng/ml	✔	3	ALB 5/22/24
298.9 -> 98.8			56.82	34.4								
PFDA	6.140	4329	92.98		13C6-PFDA - ISTD	6.140	111294	0.0472	ng/ml	✔	3	ALB 5/22/24
513.0 -> 219.0			89.84	11.1								
PFDoA	7.012	1857	95.32		13C2-PFDoA - ISTD	7.011	93978	0.0238	ng/ml			
613.0 -> 319.0			53.71	15.3								
PFDoS	7.937	0			13C8-PFOS - ISTD	6.289	33569	-	ng/ml	✔	1	ALB 5/22/24
698.9 -> 99.0				*								
PFDS	7.172	0			13C8-PFOS - ISTD	6.289	33569	-	ng/ml	✔	1	ALB 5/22/24
599.0 -> 98.8				*								
PFEESA	4.206	0			13C5-PFHxA - ISTD	3.828	189196	-	ng/ml	✔	1	ALB 5/22/24
315.0 -> 83.0				*								
PFHpA	4.550	7823	179.86		13C4-PFHpA - ISTD	4.549	224776	0.0835	ng/ml			
362.9 -> 169.0			297.00	19.1								
PFHpS	5.816	0			13C8-PFOS - ISTD	6.289	33569	-	ng/ml	✔	1	ALB 5/22/24
449.0 -> 98.8				*								
PFHxA	3.838	8070	156.25		13C5-PFHxA - ISTD	3.828	189196	0.1049	ng/ml			

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
313.0 -> 118.9			26.87	2.8								
PFHxS	5.235	766	54.22		13C3-PFHxS - ISTD	5.234	48602	0.0349	ng/ml	✔	3	ALB 5/22/24
398.9 -> 99.0			38.03	35.4								
PFMBA	3.246	49	12.47		13C5-PFPeA - ISTD	2.928	342485	0.0010	ng/ml			
PFMPA	2.242	0			13C5-PFPeA - ISTD	2.928	342485	-	ng/ml	✔	1	ALB 5/22/24
PFNA	5.673	10841	41.03		13C9-PFNA - ISTD	5.664	121607	0.1109	ng/ml	✔	3	ALB 5/22/24
463.0 -> 219.0			400.60	17.9								
PFNS	6.752	0			13C8-PFOS - ISTD	6.289	33569	-	ng/ml	✔	1	ALB 5/22/24
549.0 -> 98.8				*								
PFOA	5.149	35529	263.28		13C8-PFOA - ISTD	5.148	208002	0.3402	ng/ml	✔	3	ALB 5/22/24
413.0 -> 169.0			663.53	26.2								
PFOS	6.290	5368	348.72		13C8-PFOS - ISTD	6.289	33569	0.3076	ng/ml	✔	3	ALB 5/22/24
499.0 -> 99.0			339.11	46.5								
PFOSA	7.753	167	1668.06		13C8-PFOSA - ISTD	7.751	53826	0.0070	ng/ml	✔	3	ALB 5/22/24
497.9 -> 478.0			6.29	2.2								
PFPeA	2.929	7095	92.11		13C5-PFPeA - ISTD	2.928	342485	0.1026	ng/ml			
263.0 -> 69.0			4.00	0.2								
PFPeS	4.592	0			13C3-PFHxS - ISTD	5.234	48602	-	ng/ml	✔	1	ALB 5/22/24
349.0 -> 98.9				*								
PFTeDA	7.820	1019	104.84		13C2-PFTeDA - ISTD	7.819	81810	0.0155	ng/ml			
713.0 -> 168.9			16.04	4.6								
PFTrDA	7.423	1569	77.54		13C2-PFDoA - ISTD	7.011	93978	0.0236	ng/ml			
663.0 -> 168.9			45.05	11.1								
PFUnA	6.587	3892	121.61		13C7-PFUnA - ISTD	6.586	97788	0.0495	ng/ml	✔	3	ALB 5/22/24
563.0 -> 269.1			122.98	17.4								
TDCA	6.290	4186	538.09					-	ng/ml			
499.0 -> 99.0			250.50	***48.7**								
13C2-8:2FTS	5.934	26211	3598.63		18O2-PFHxS	5.233	55874	7.1368	ng/ml			
529.0 -> 509.0			12571.28	275.5								
13C2-4:2FTS	3.597	38384	2849.22		18O2-PFHxS	5.233	55874	5.7406	ng/ml			
329.0 -> 309.0			5587.60	245.3								
13C2-6:2FTS	4.933	29297	3910.45		18O2-PFHxS	5.233	55874	6.4841	ng/ml			
429.0 -> 409.0			7642.22	332.7								
13C5-PFHxA	3.828	189196	25812.95		13C2-PFHxA	3.829	210789	2.1781	ng/ml			
318.0 -> 120.0			673.24	1.9								

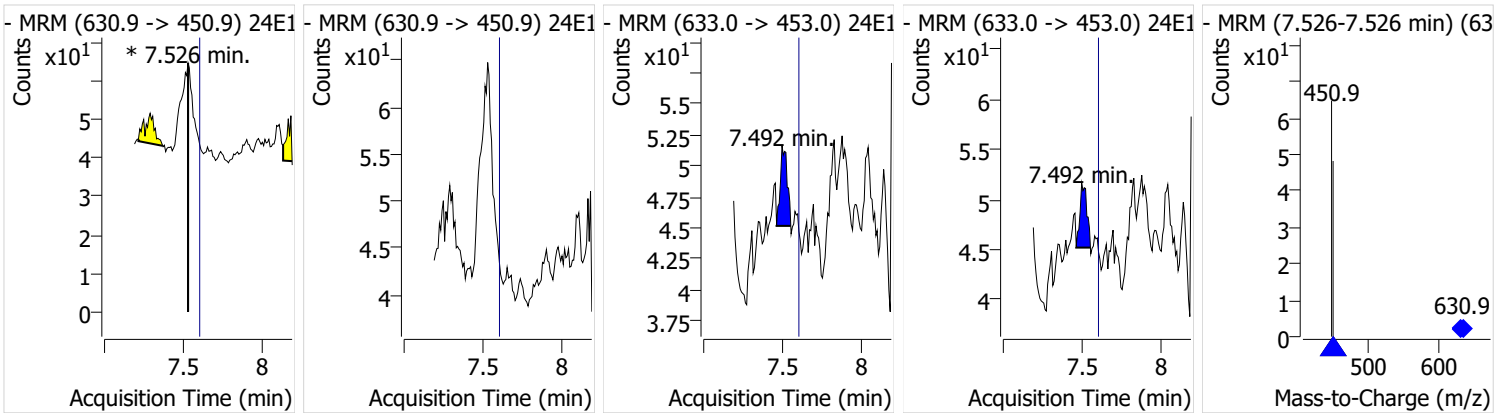
Quantitative Analysis Sample Report

Agilent

1007

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
13C6-PFDA	6.140	111294	10519.39		13C2-PFDA	6.140	131259	1.0746	ng/ml			
13C7-PFUnA	6.586	97788	27953.05		13C2-PFDA	6.140	131259	1.1663	ng/ml			
13C8-PFOA	5.148	208002	31264.63		13C4-PFOA	5.148	34665	2.1887	ng/ml			
13C8-PFOS	6.289	33569	3184.46		13C4-PFOS	6.290	44578	2.0946	ng/ml			
507.0 -> 99.0			2966.17	55.4								
13C8-PFOSA	7.751	53826	42629.84		13C4-PFOS	6.290	44578	1.9096	ng/ml			
13C9-PFNA	5.664	121607	6421.82		13C5-PFNA	5.664	169458	1.0523	ng/ml			
13C5-PFPeA	2.928	342485	24159.52		13C2-PFHxA	3.829	210789	4.3995	ng/ml			
13C2-PFDoA	7.011	93978	18465.36		13C2-PFDA	6.140	131259	1.0860	ng/ml			
13C4-PFHpA	4.549	224776	22529.32		13C2-PFHxA	3.829	210789	2.3134	ng/ml			
13C4-PFBA	1.707	535674	149718.12		13C3-PFBA	1.710	290958	8.4797	ng/ml			
13C3-PFHxS	5.234	48602	4726.03		18O2-PFHxS	5.233	55874	2.1300	ng/ml			
402.0 -> 99.0			5597.75	51.0								
13C3-PFBS	3.749	64751	6060.57		18O2-PFHxS	5.233	55874	2.1442	ng/ml			
301.9 -> 98.9			10945.23	35.7								
13C3-HFPODA	4.103	210738	29041.59		13C2-PFHxA	3.829	210789	8.6736	ng/ml			
287.0 -> 185.0			8772.48	46.0								
13C2-PFTeDA	7.819	81810	16816.73		13C2-PFDA	6.140	131259	1.0979	ng/ml			
D9-NEtFOSE	9.394	151079	28817.48		13C4-PFOS	6.290	44578	12.8893	ng/ml			
D3-NMeFOSA	9.201	8925	1930.10		13C4-PFOS	6.290	44578	0.9873	ng/ml			
D3-NMeFOSAA	6.211	162893	14338.29		13C4-PFOS	6.290	44578	5.6407	ng/ml			
D5-NEtFOSA	9.546	7758	2770.31		13C4-PFOS	6.290	44578	0.8226	ng/ml			
D5-NEtFOSAA	6.414	75970	4011.29		13C4-PFOS	6.290	44578	5.1989	ng/ml			
D7-NMeFOSE	9.057	150102	28037.44		13C4-PFOS	6.290	44578	13.7028	ng/ml			

11Cl-PF3OUdS



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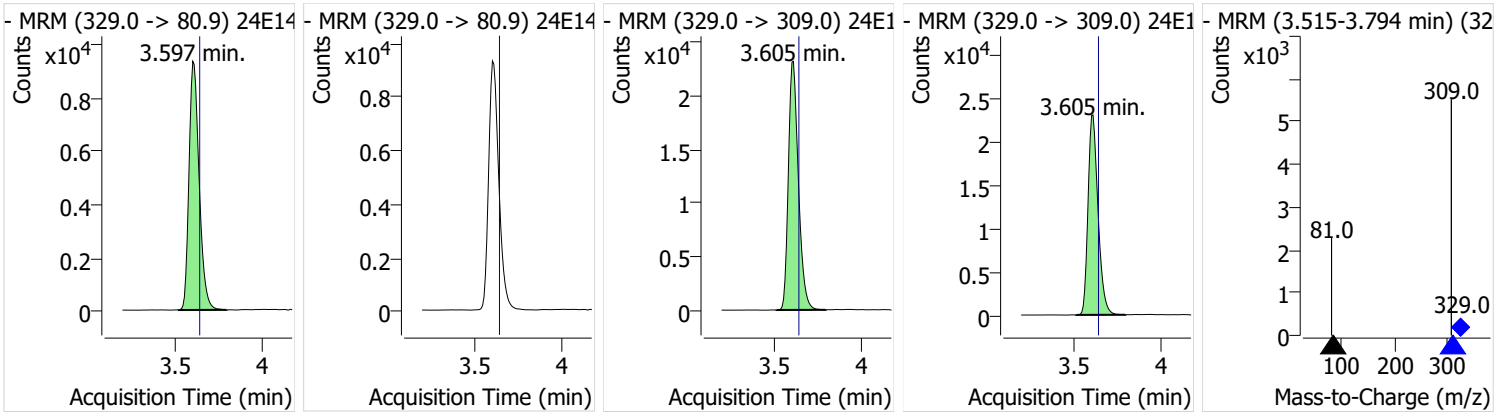

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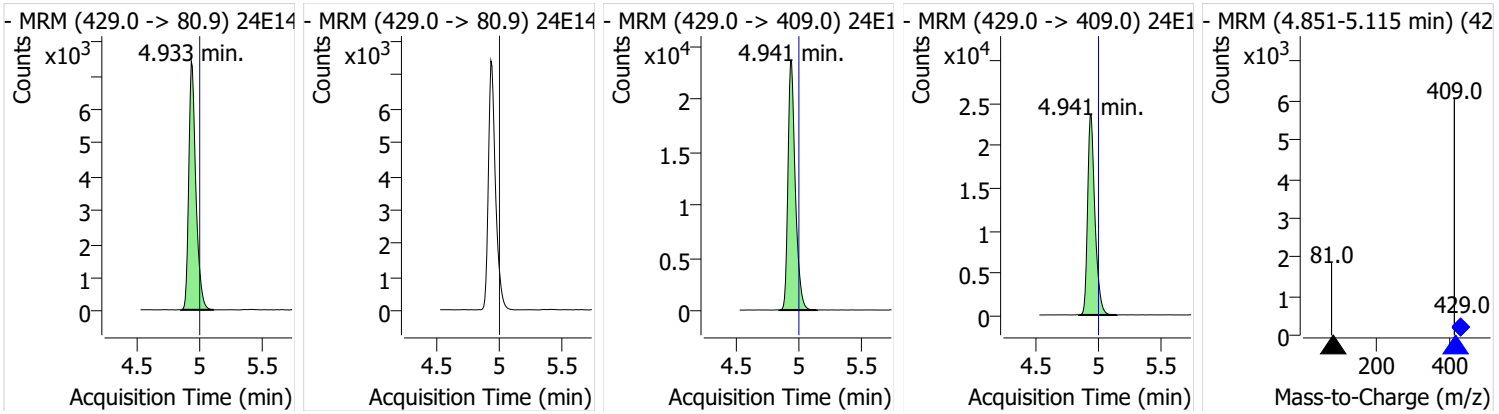

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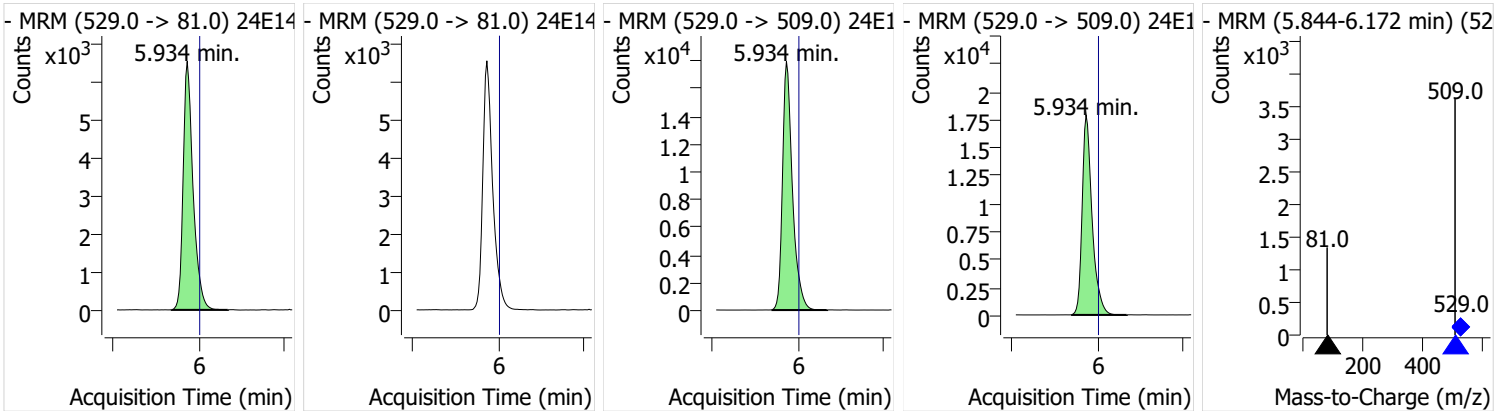
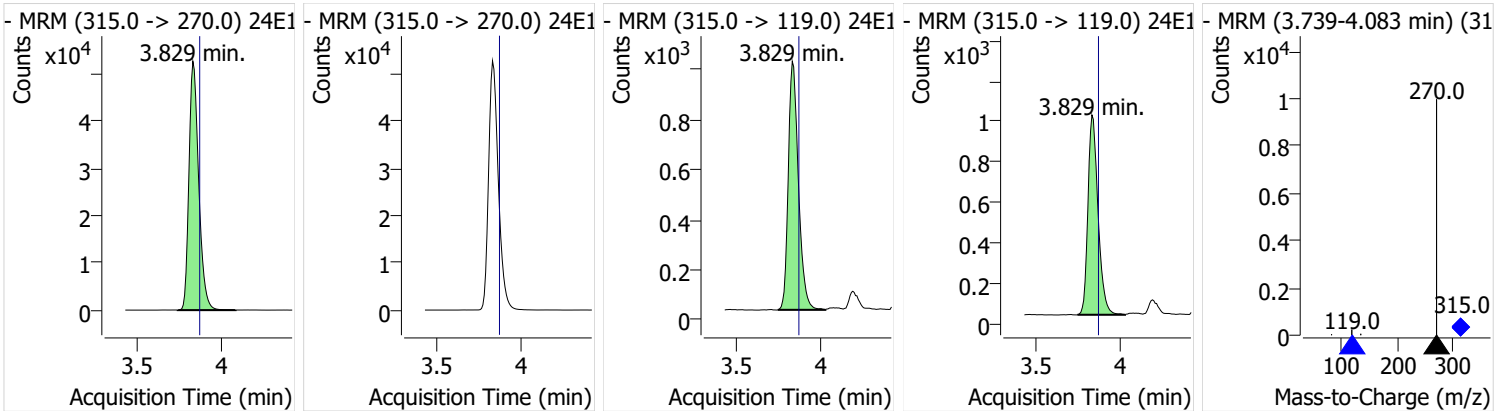


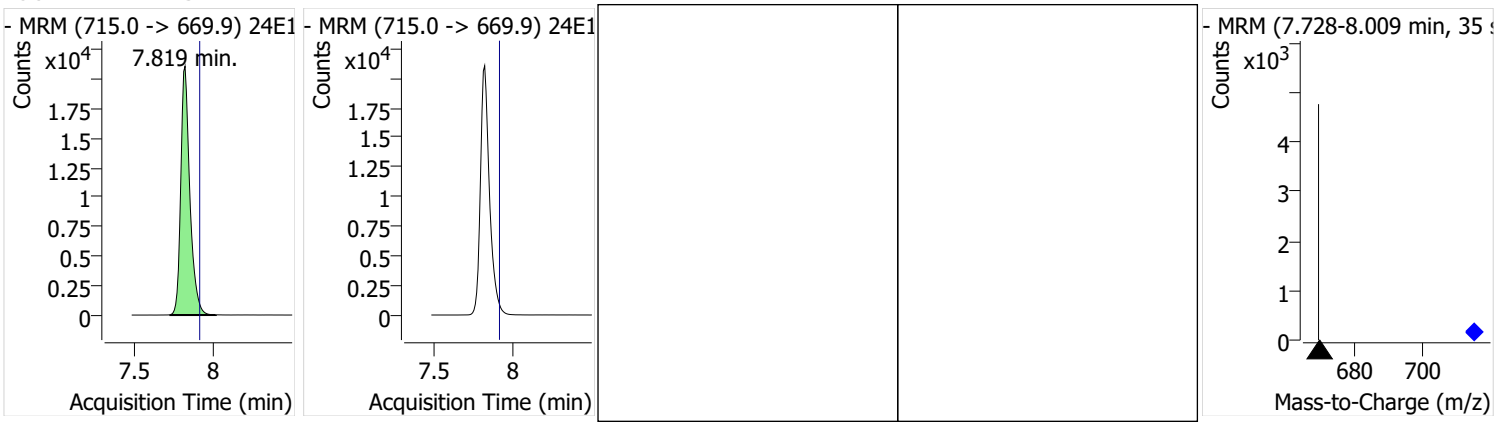
13C2-PFDA

13C2-PFDoA - ISTD

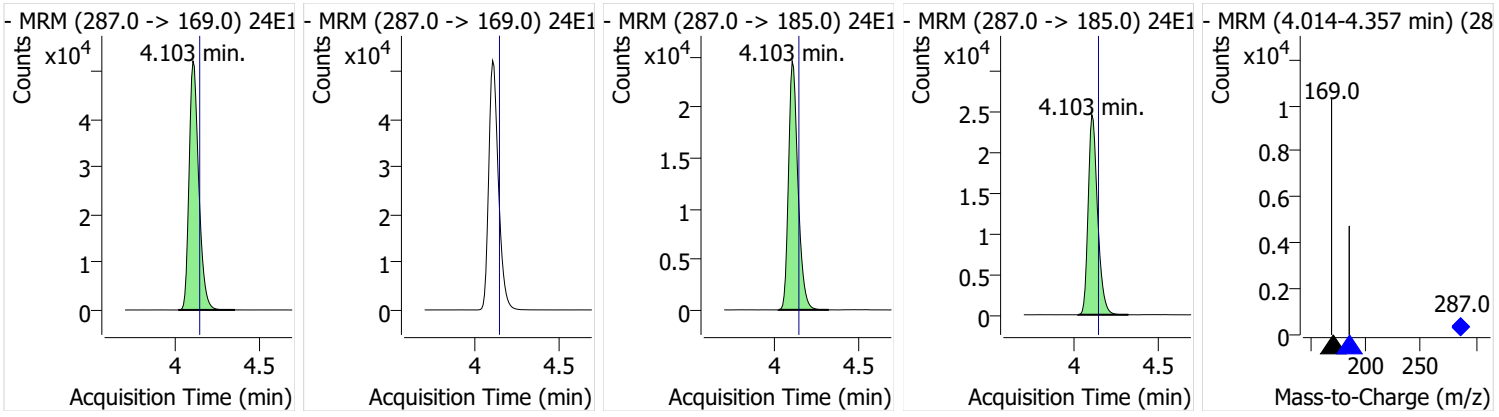
13C2-PFHxA



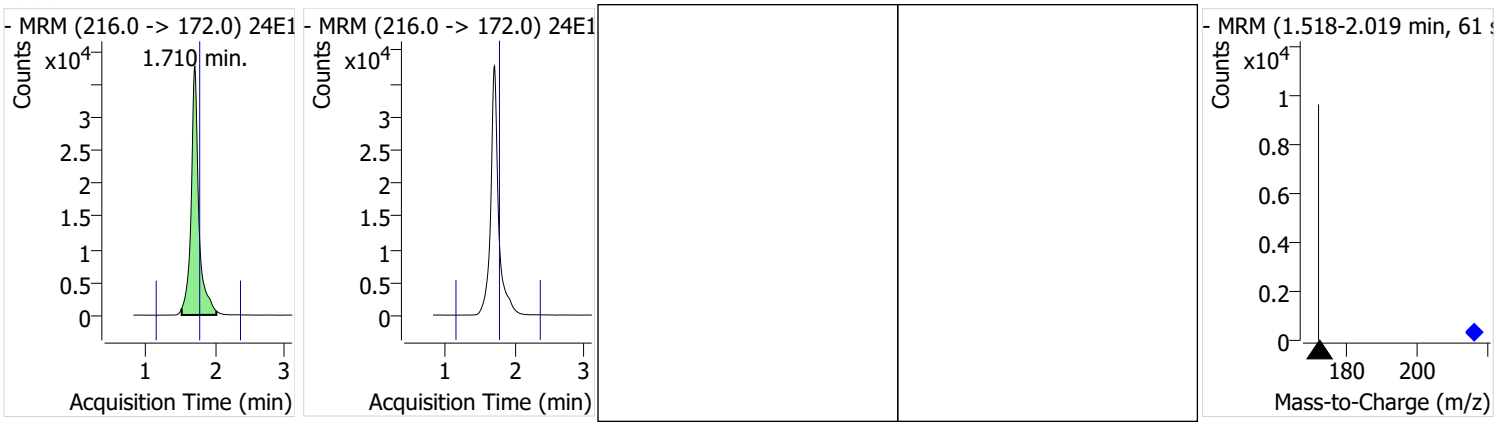
13C2-PFTeDA - ISTD



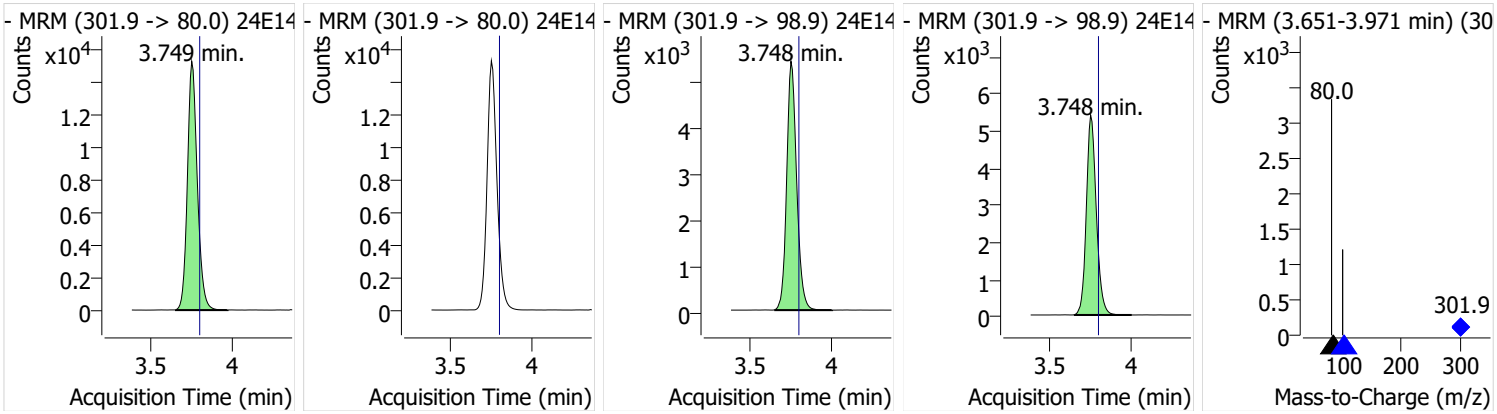
13C3-HFPODA - ISTD



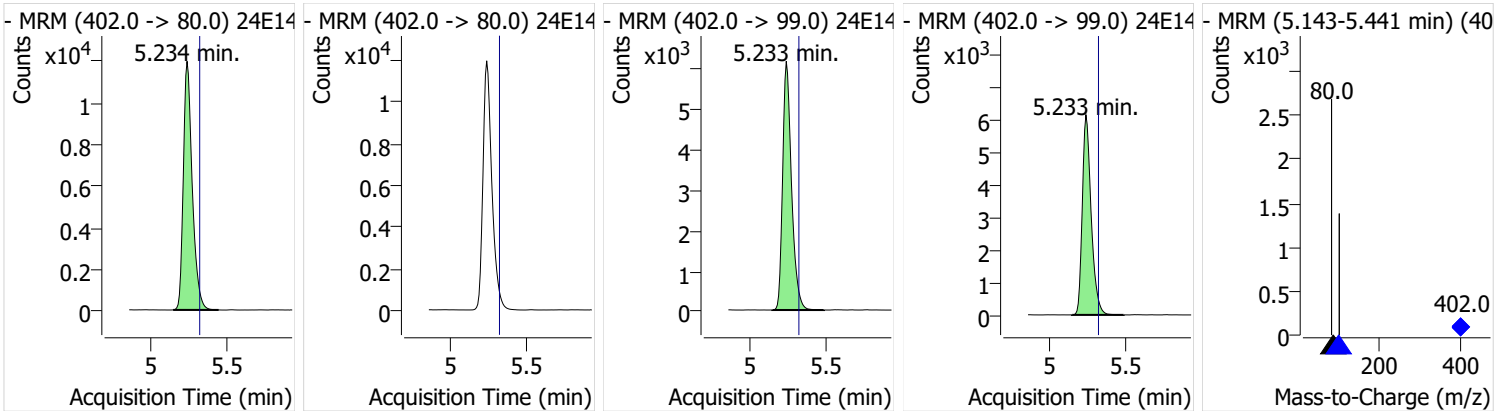
13C3-PFBA



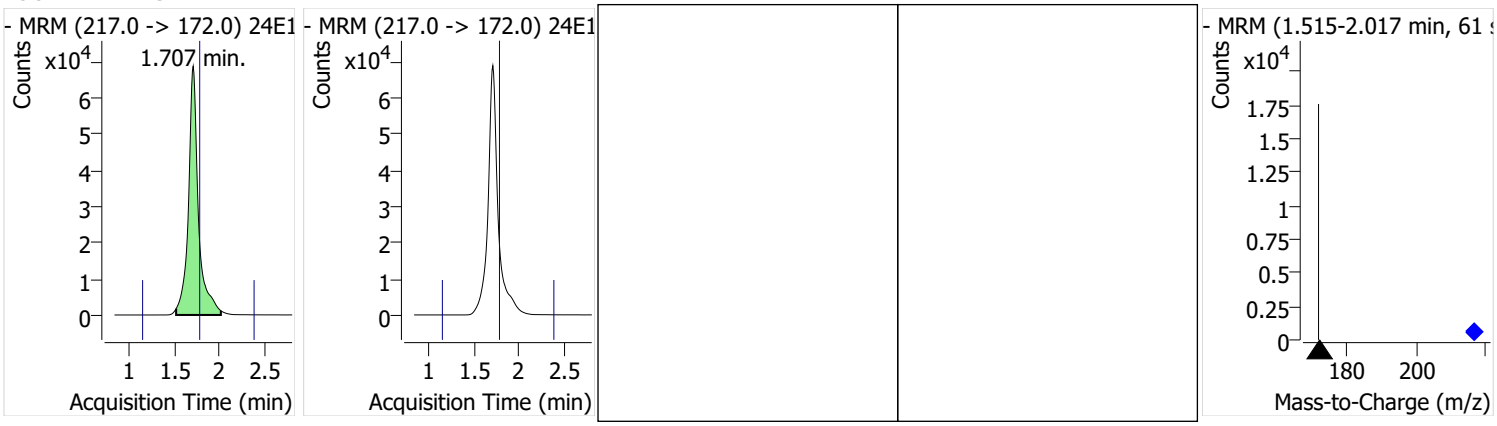
13C3-PFBS - ISTD



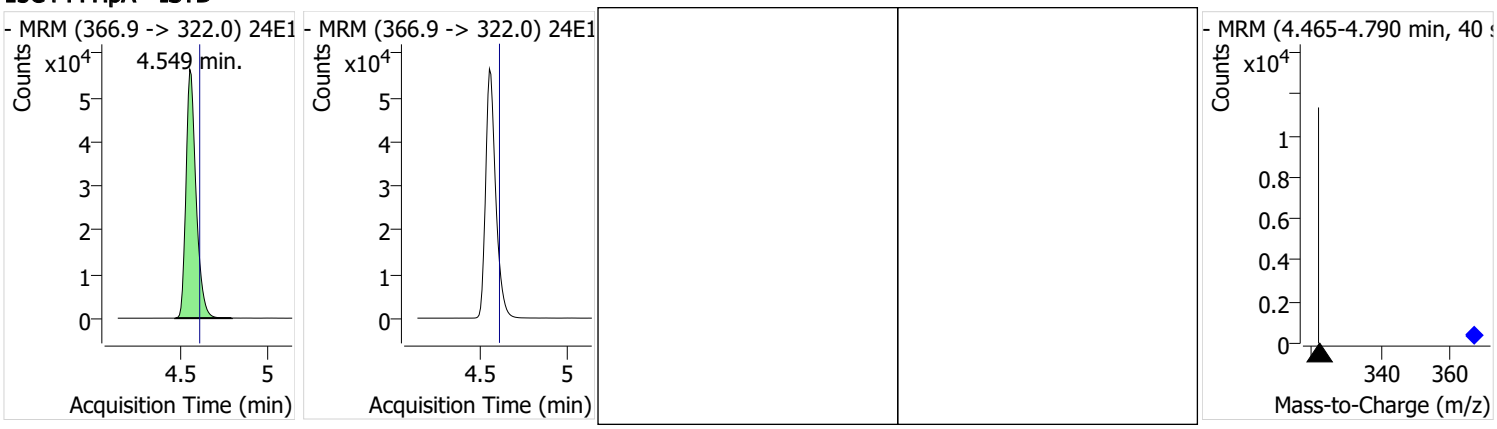
13C3-PFHxS - ISTD



13C4-PFBA - ISTD

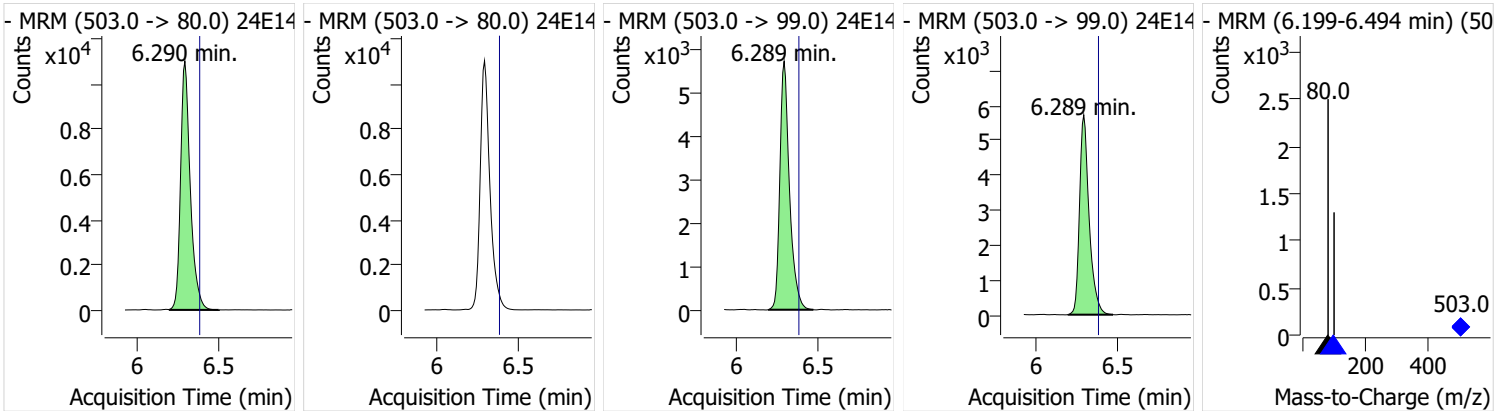


13C4-PFHpA - ISTD

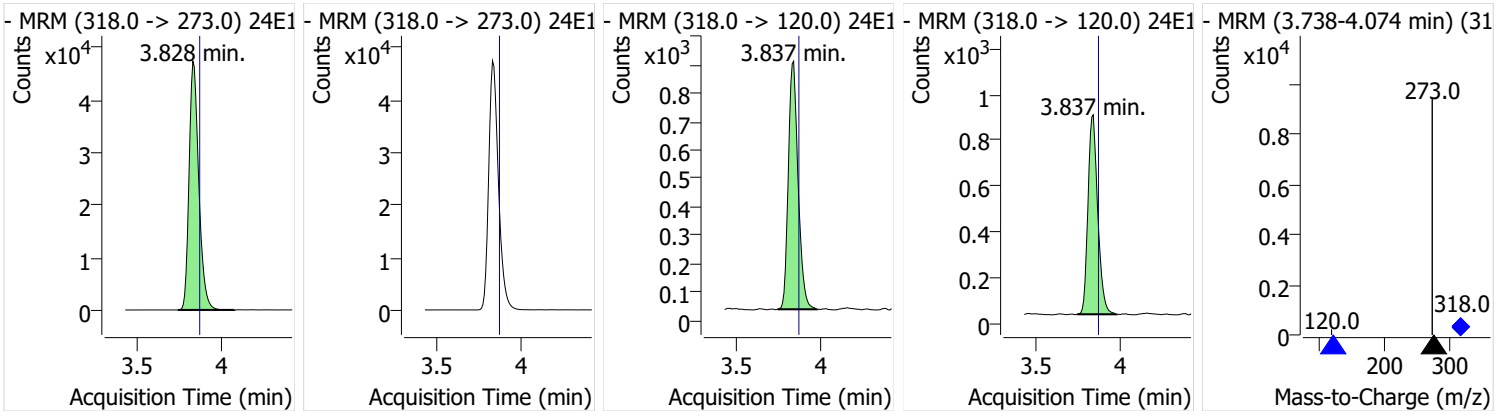


13C4-PFOA

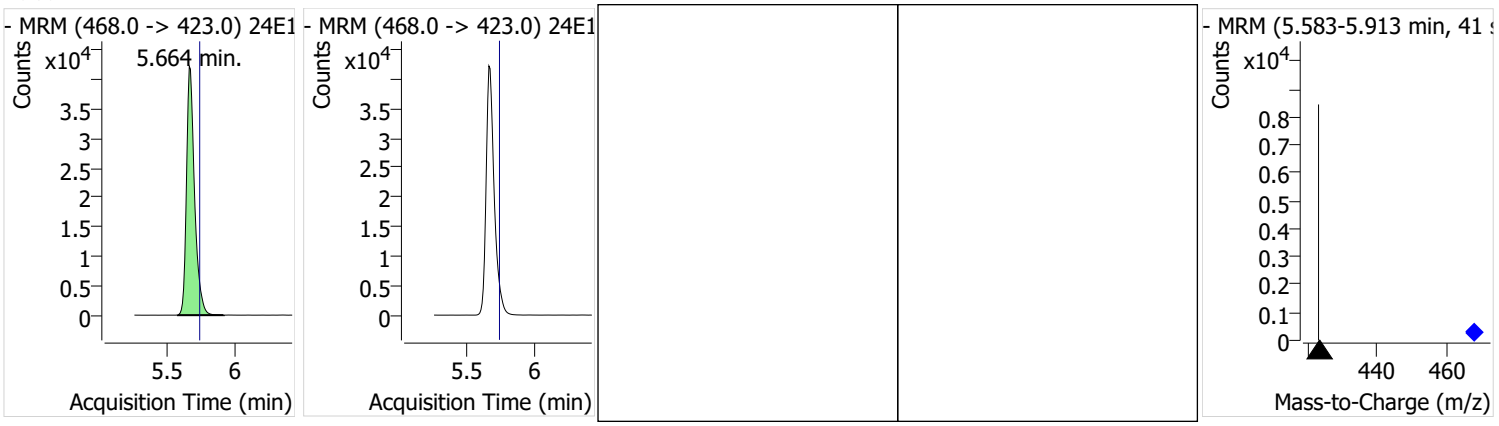
13C4-PFOS



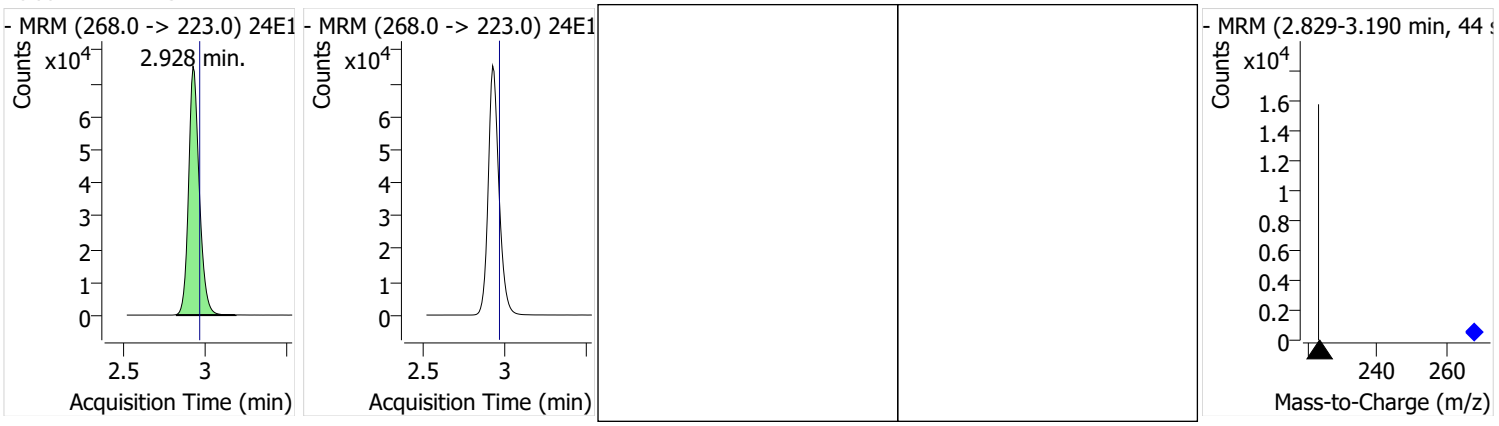
13C5-PFHxA - ISTD



13C5-PFNA

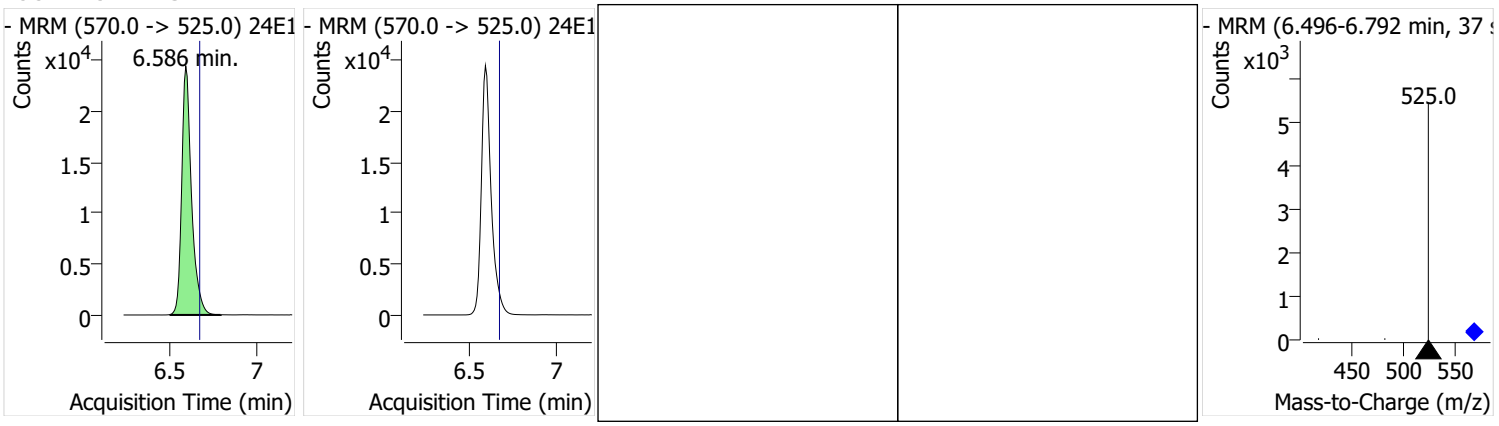


13C5-PFPeA - ISTD



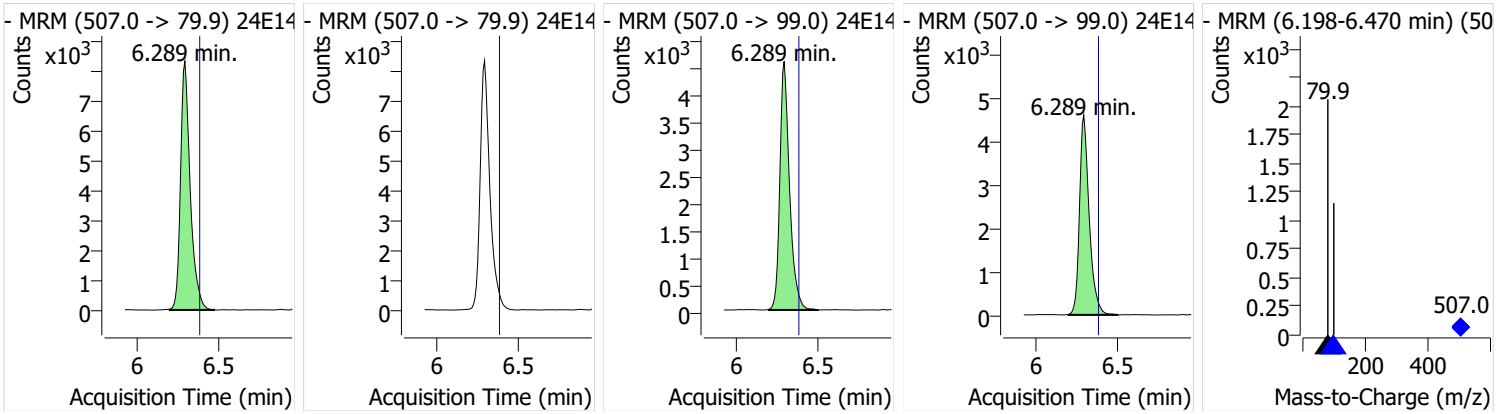
13C6-PFDA - ISTD

13C7-PFUnA - ISTD

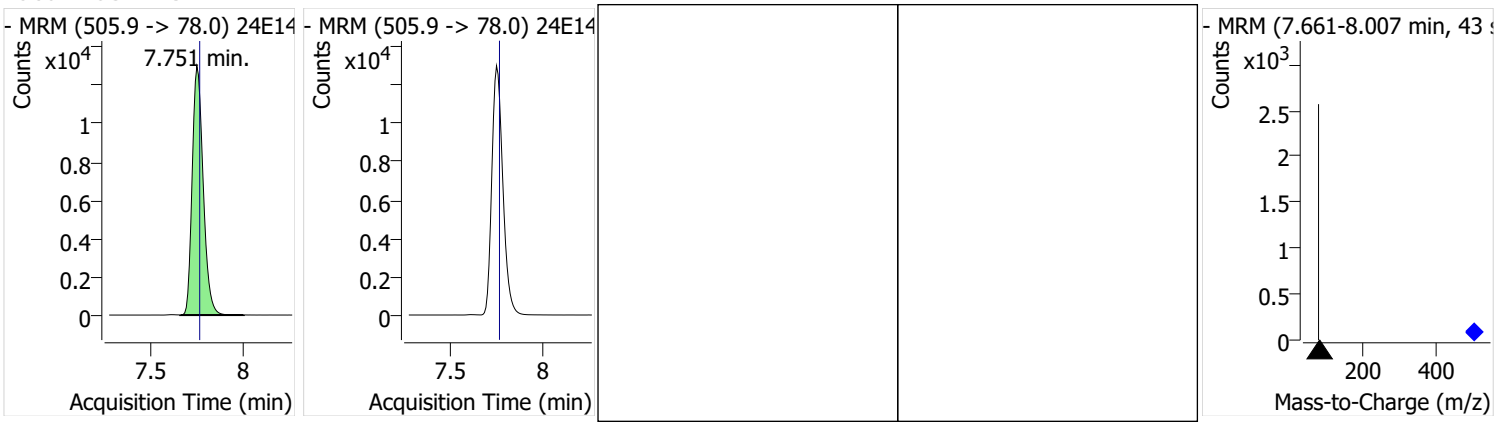


13C8-PFOA - ISTD

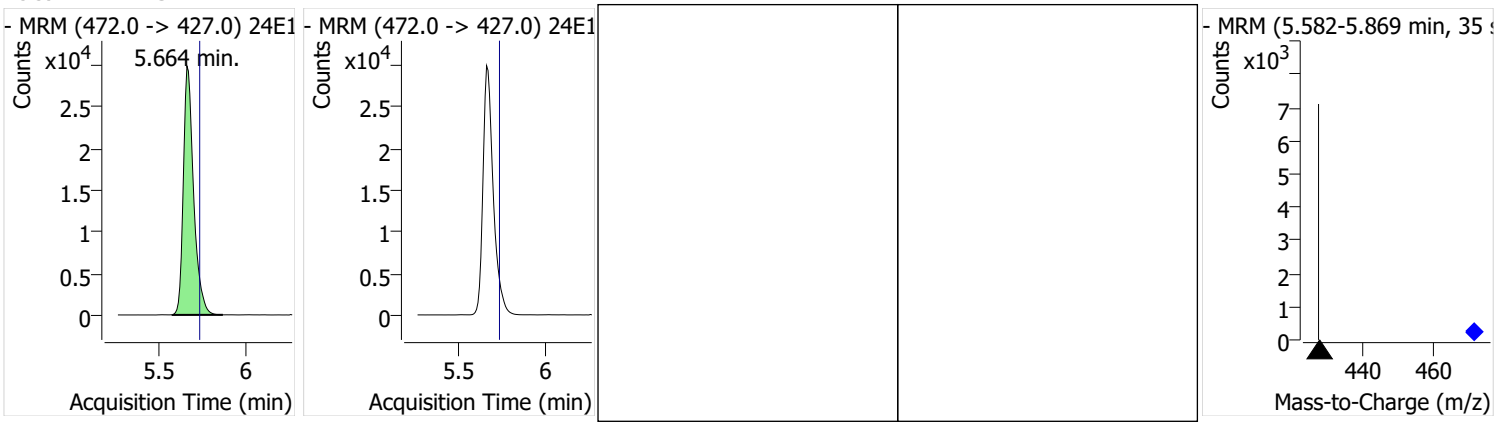
13C8-PFOS - ISTD



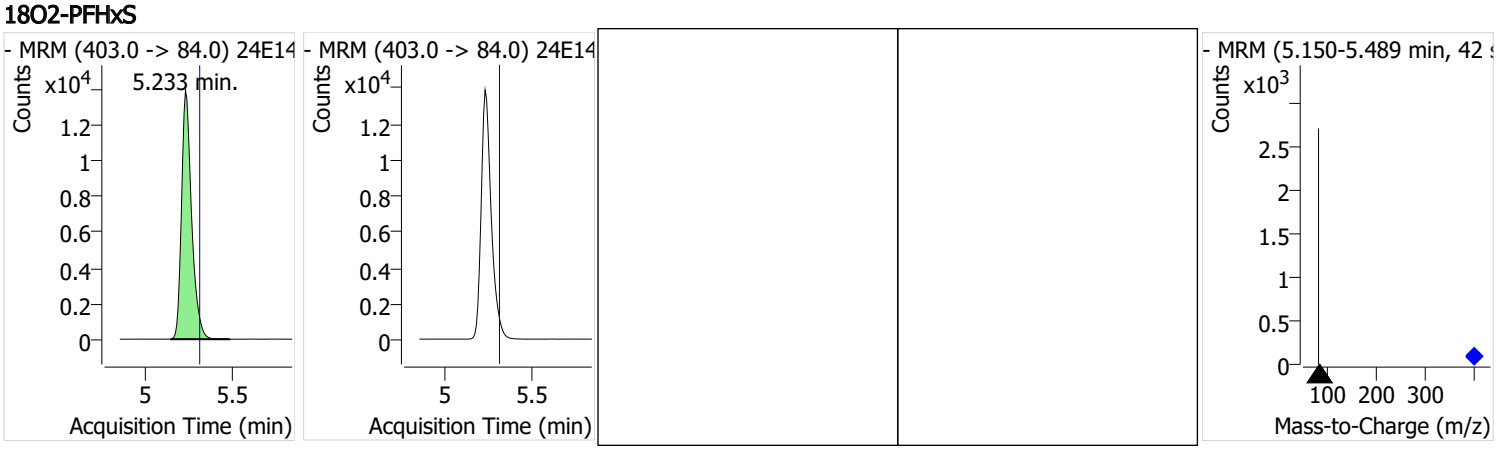
13C8-PFOSA - ISTD



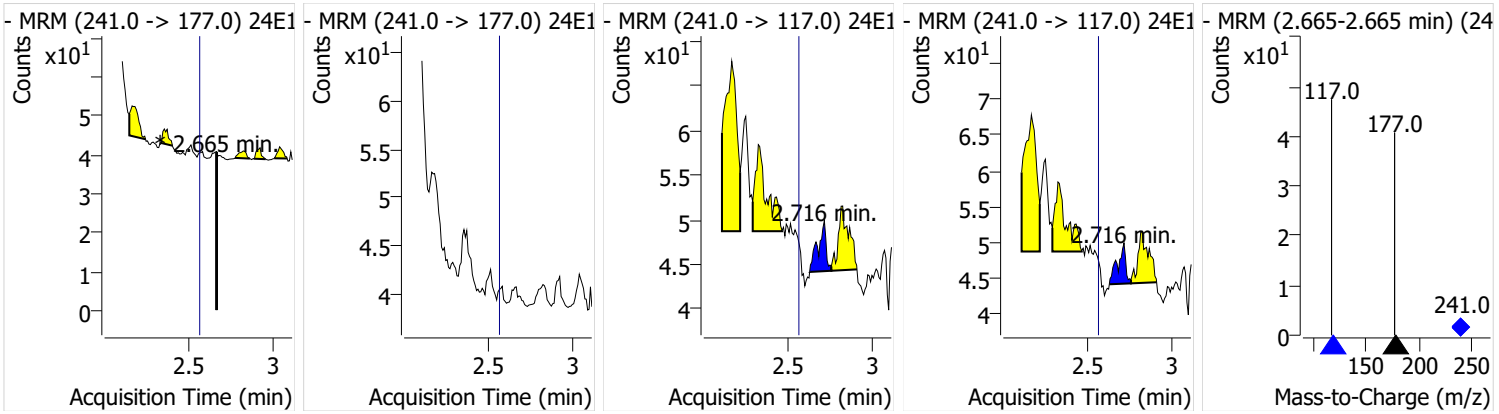
13C9-PFNA - ISTD



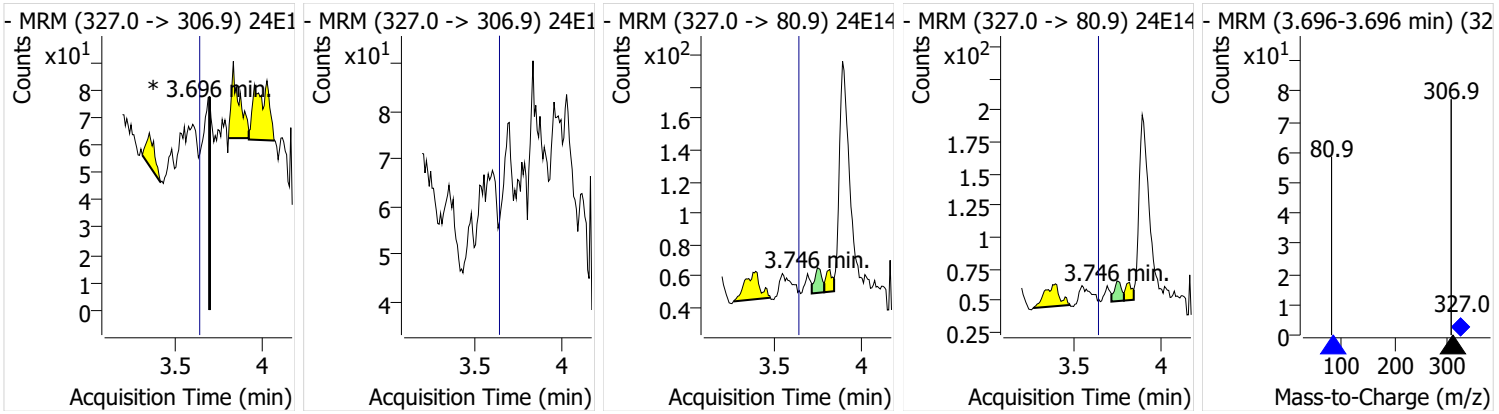
18O2-PFHxS



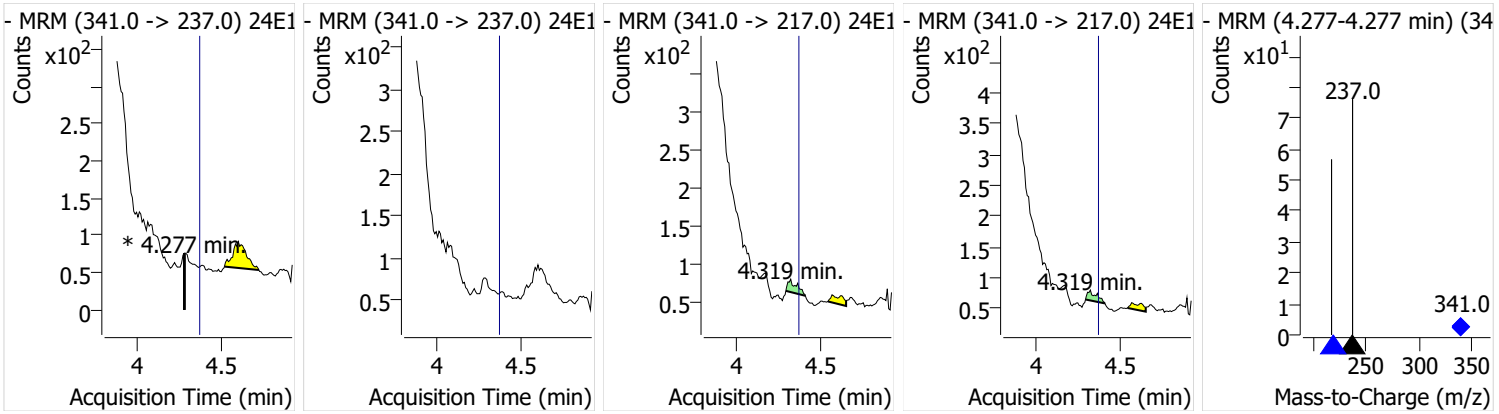
3:3FTCA



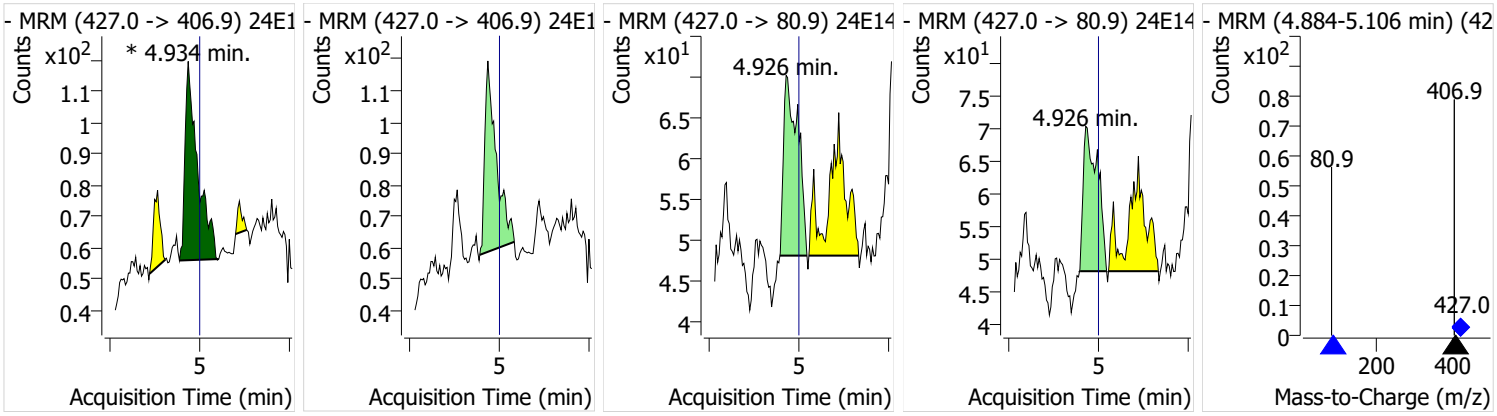
4:2FTS



5:3FTCA



6:2FTS



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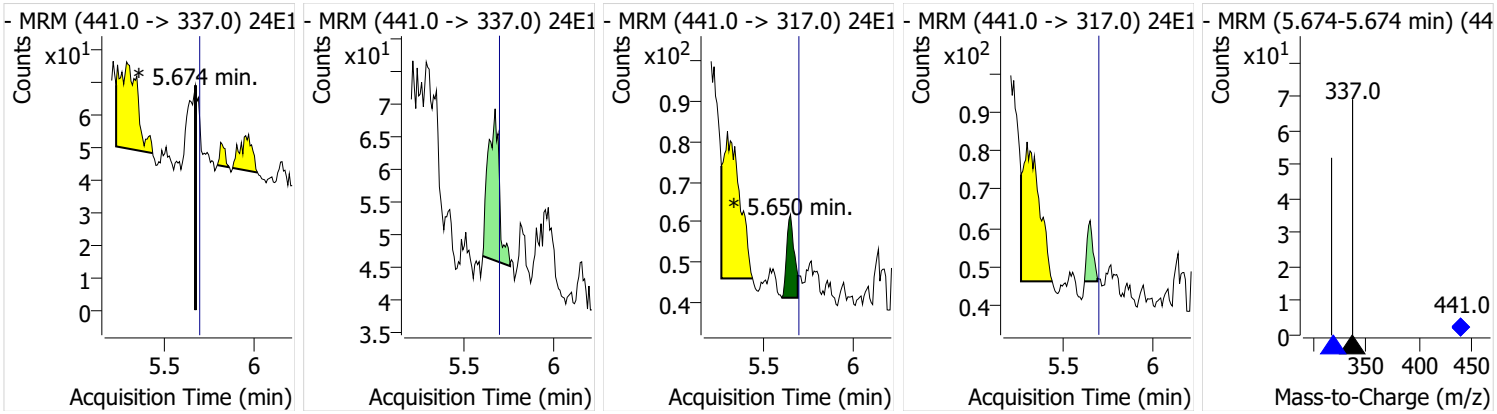
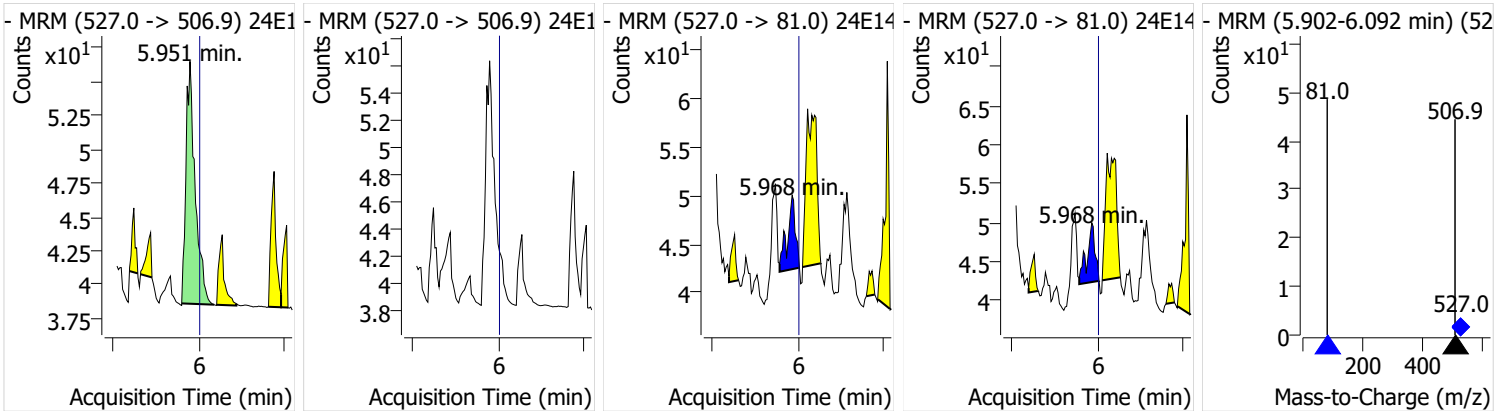
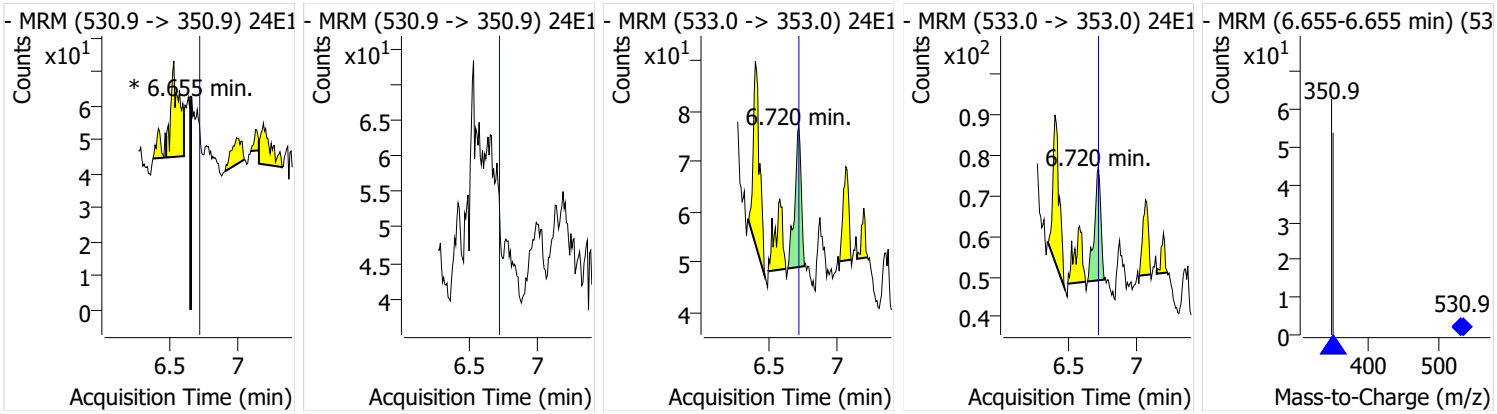


8:2FTS



9Cl-PF3ONS



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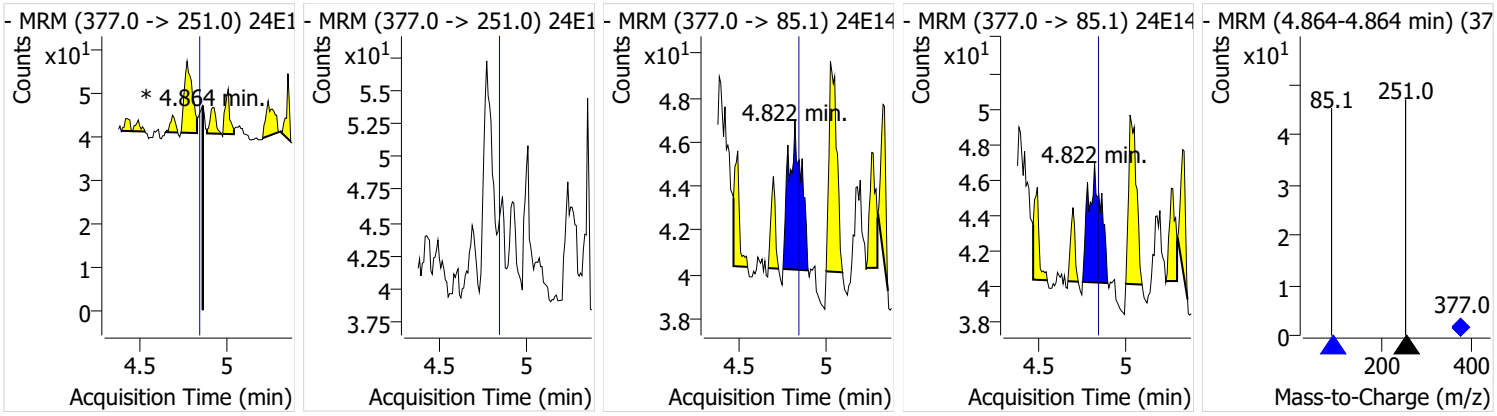
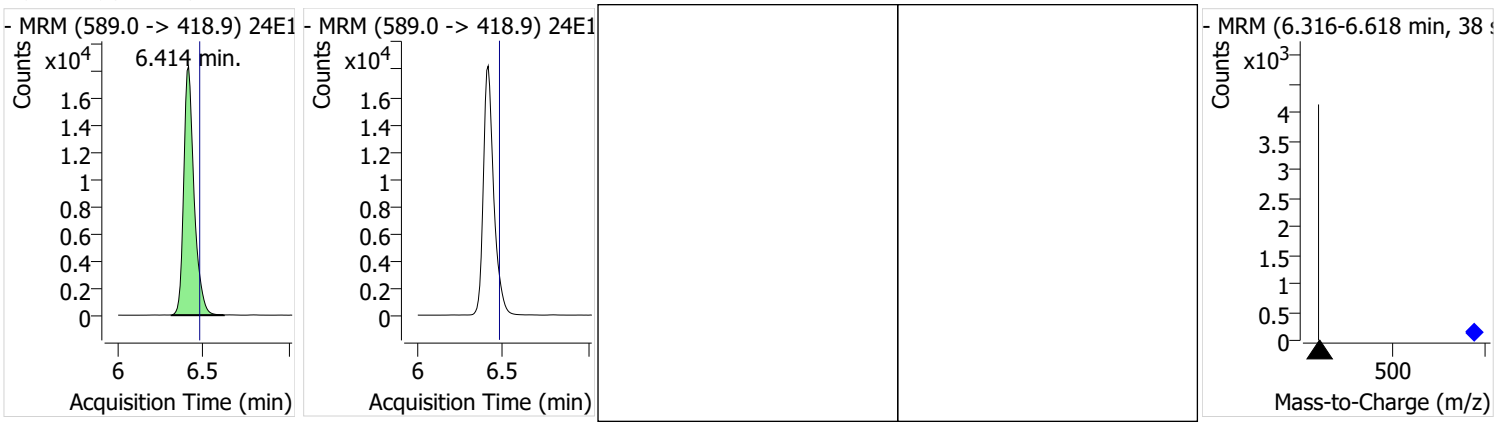


D3-NMeFOSA - ISTD

D3-NMeFOSAA - ISTD

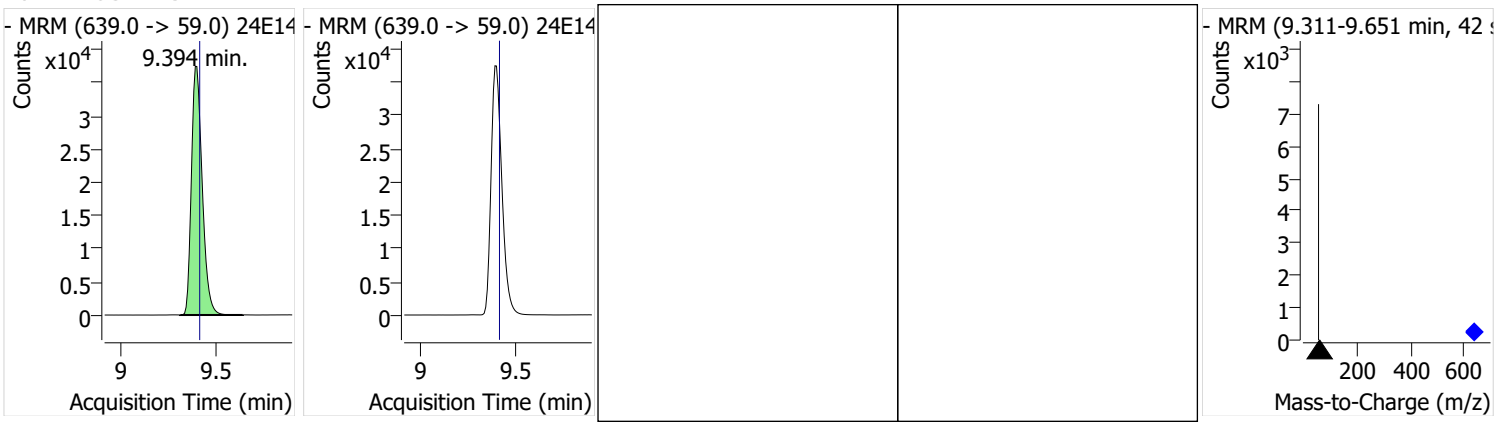
D5-NEtFOSA - ISTD

D5-NEtFOSAA - ISTD

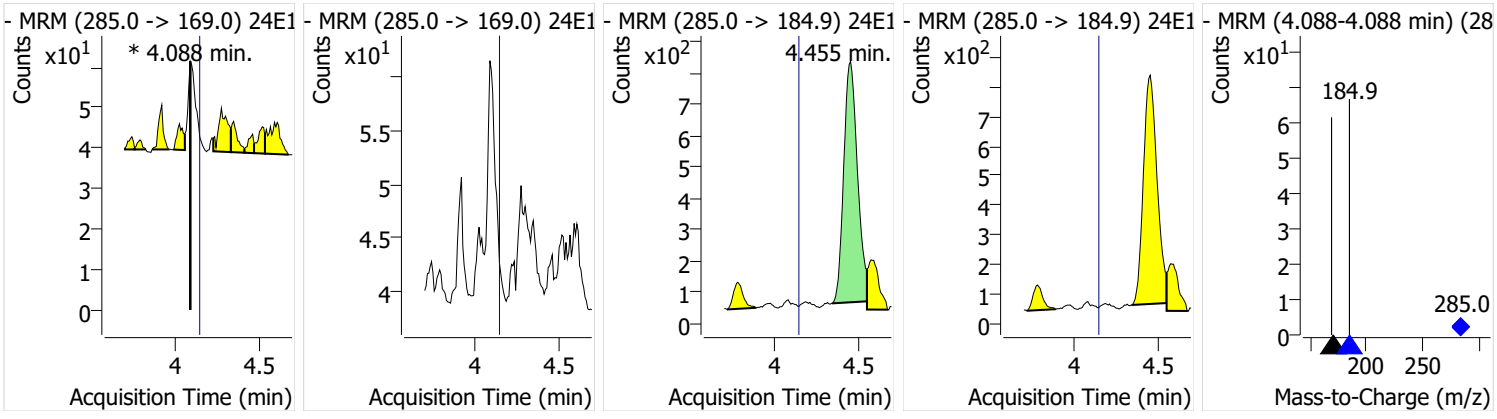


D7-NMeFOSE - ISTD

D9-NEtFOSE - ISTD



HFPO-DA



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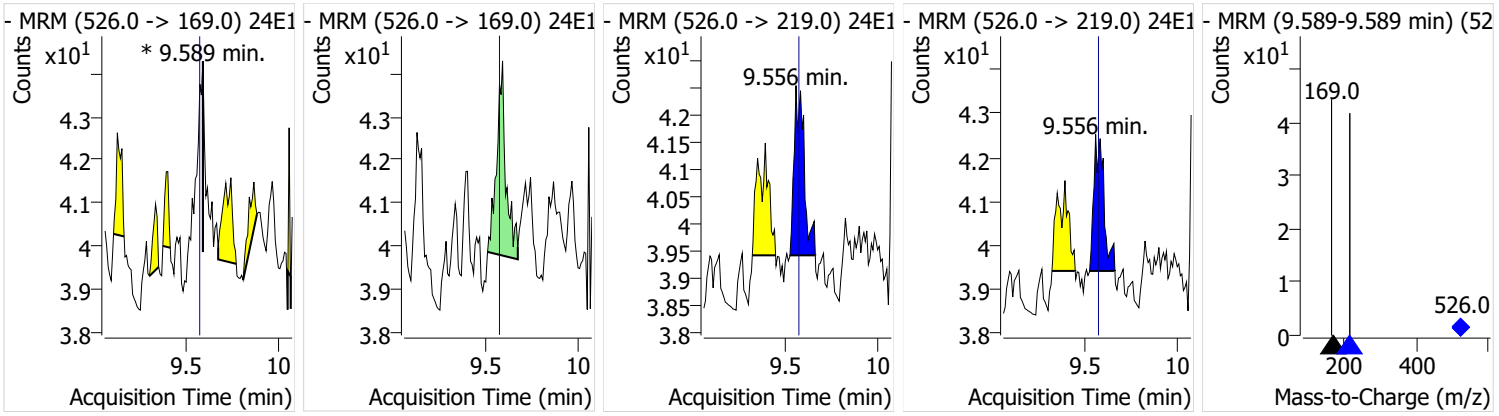

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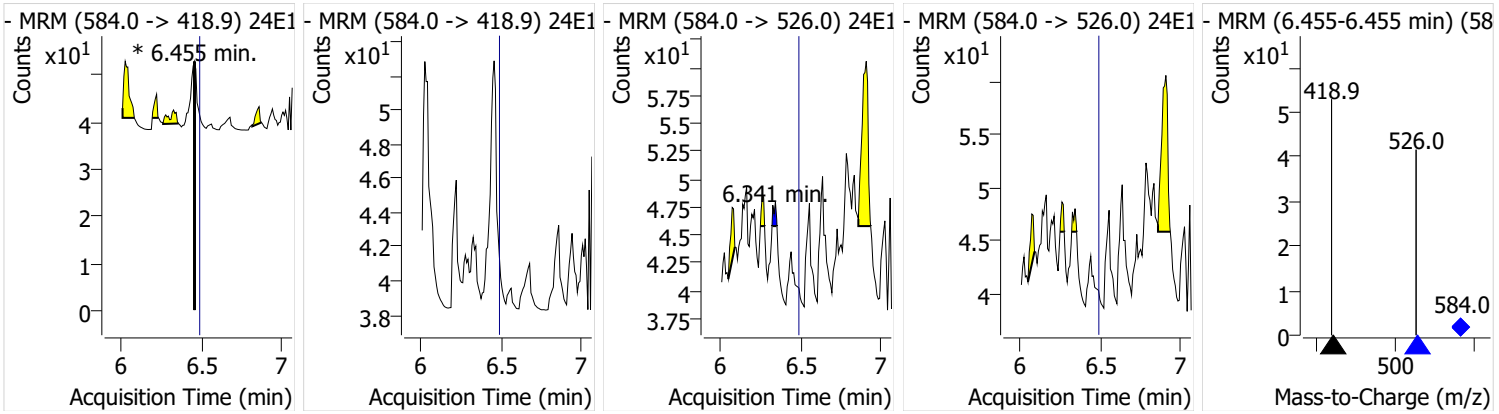

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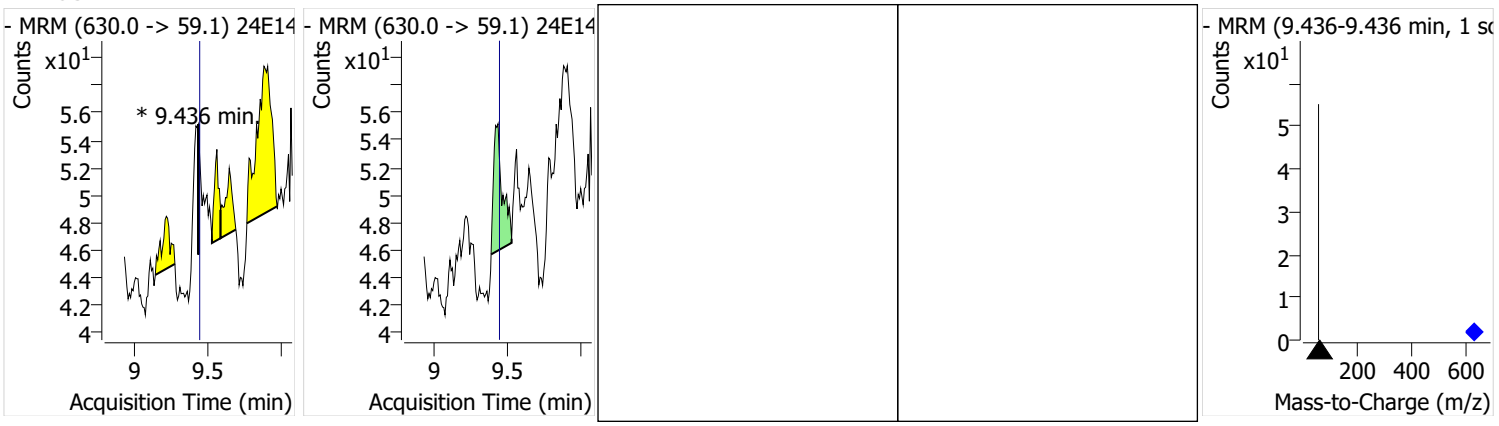

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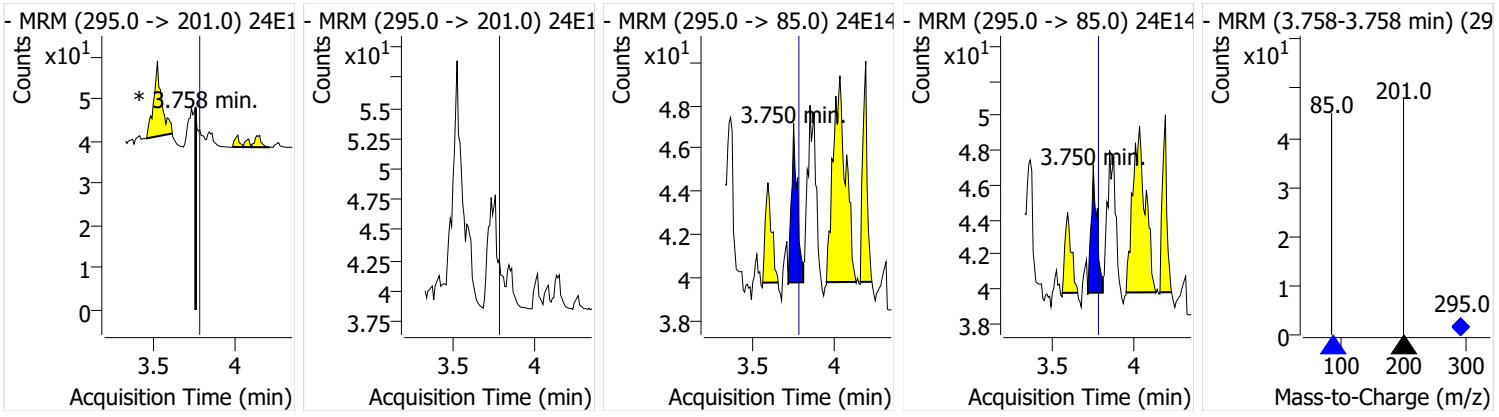

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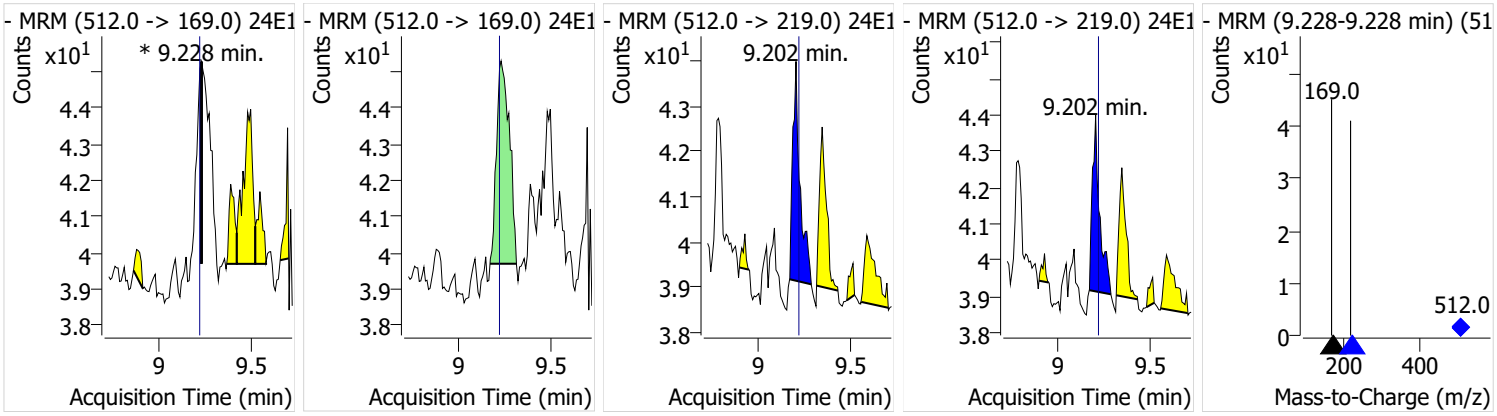

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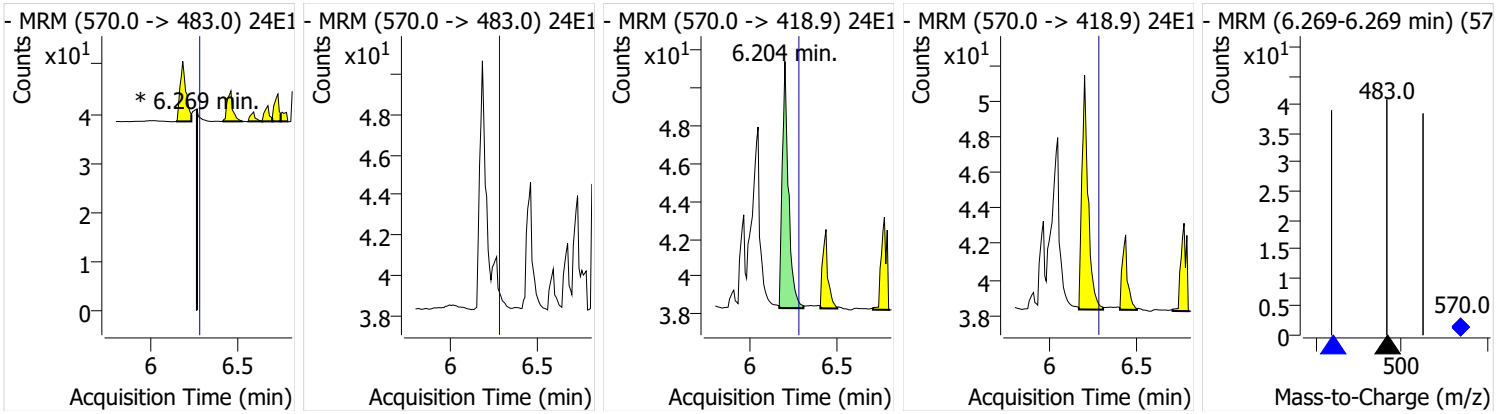

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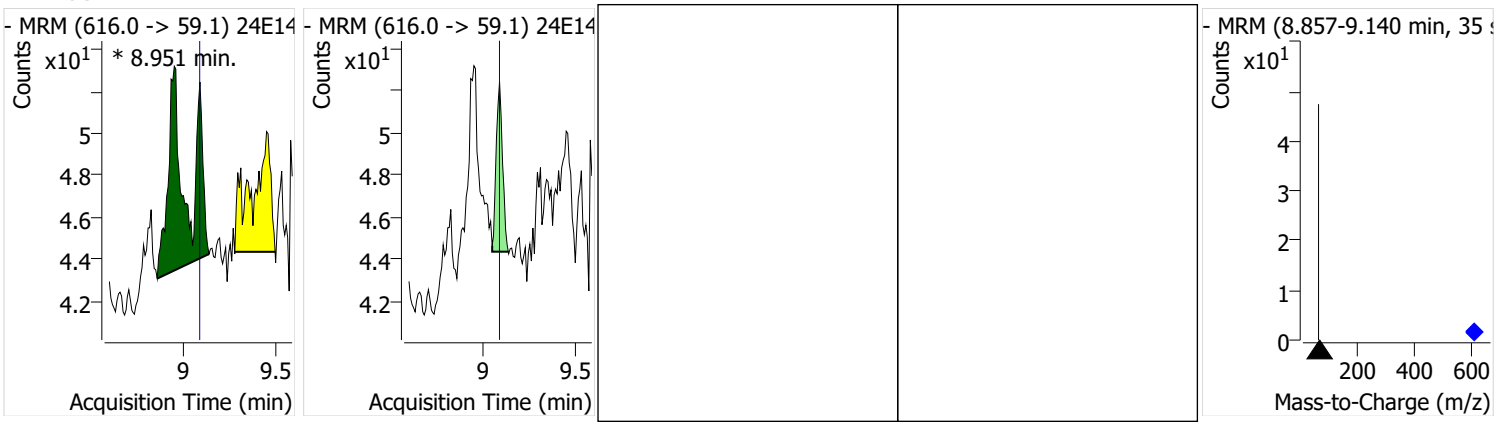
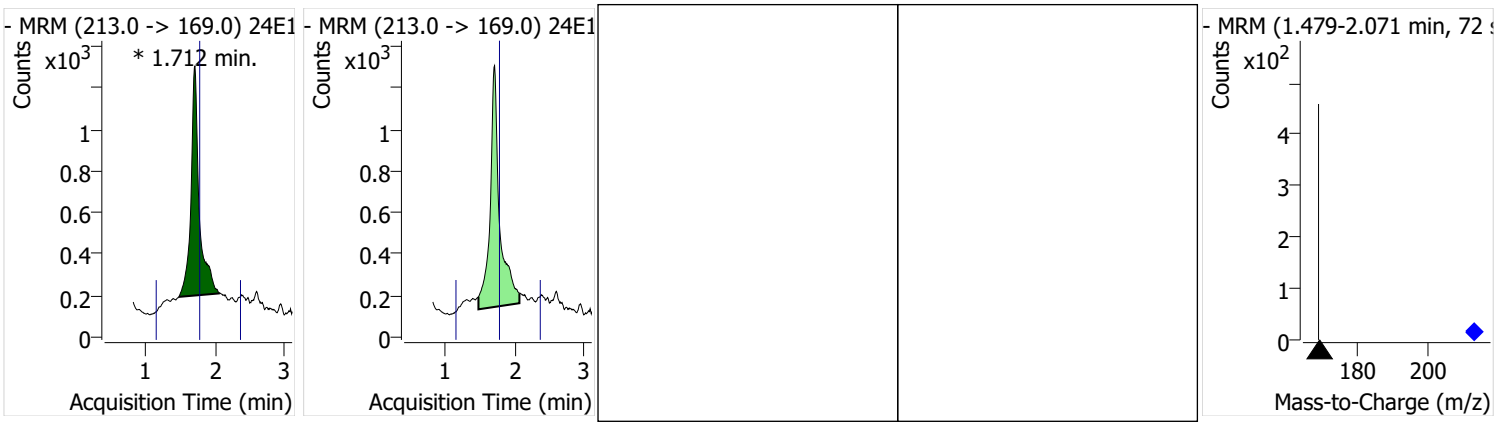


PFBA



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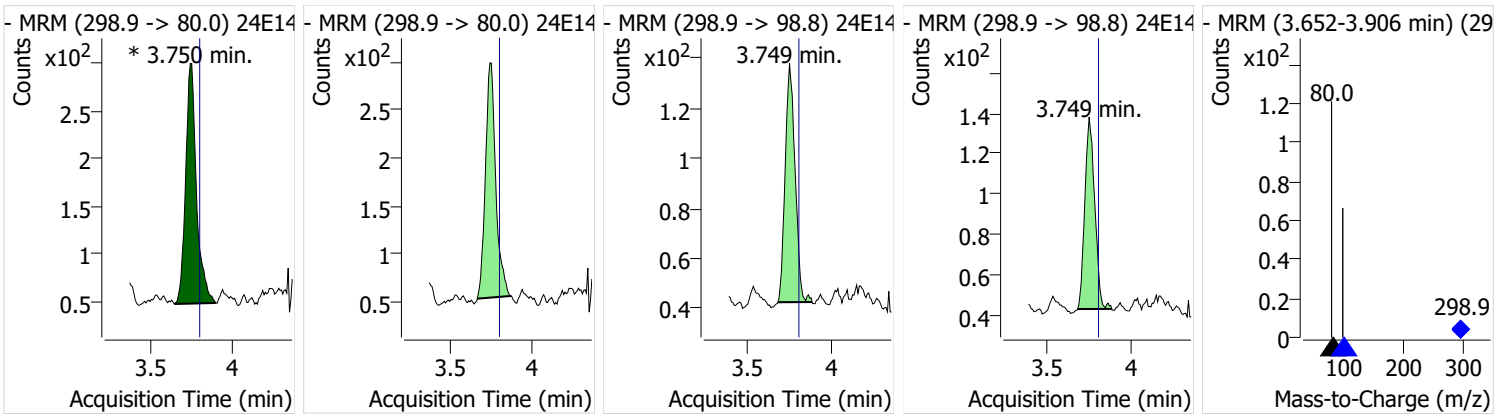

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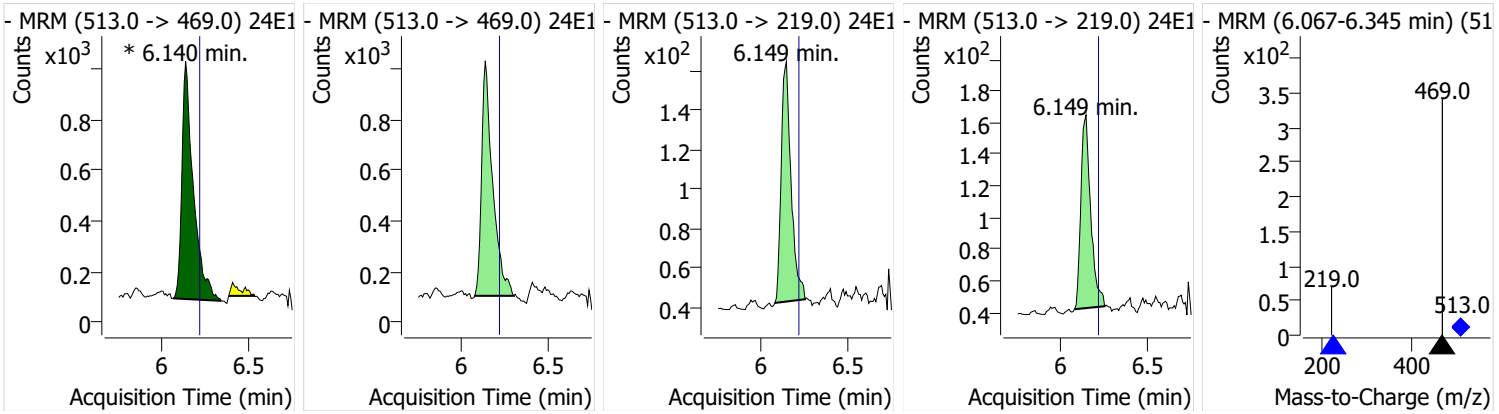

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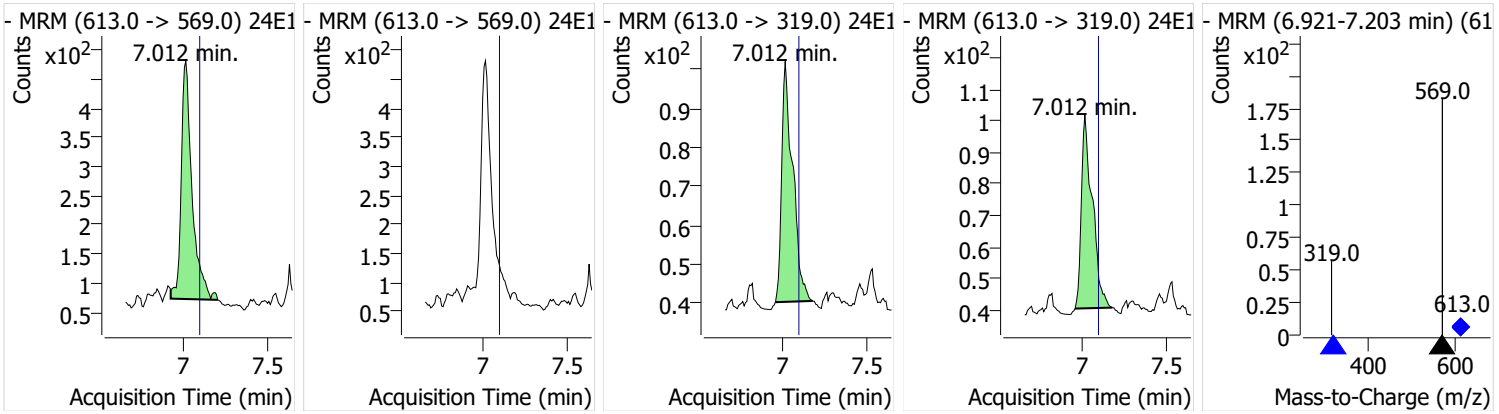

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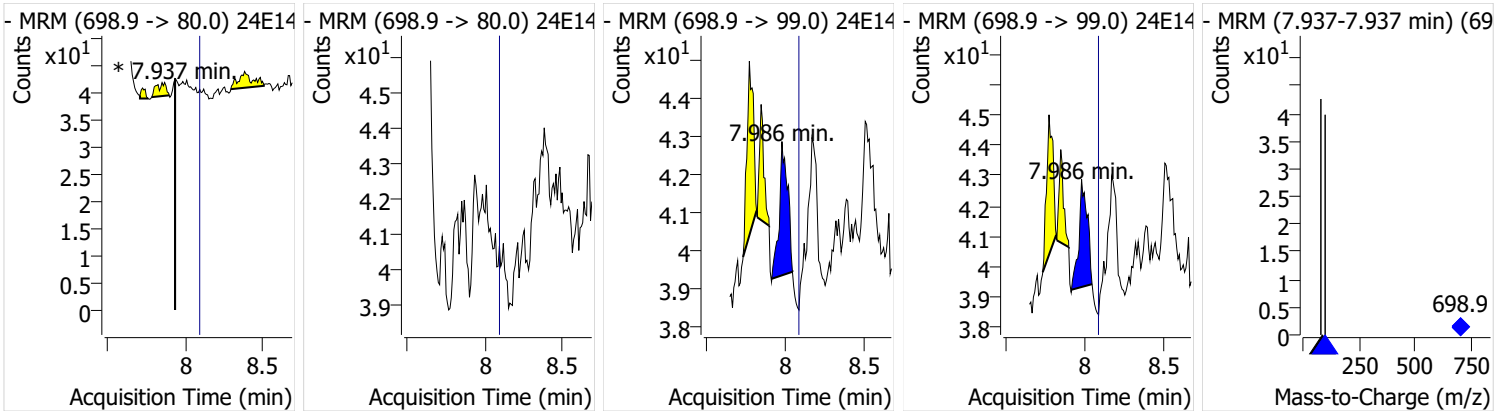

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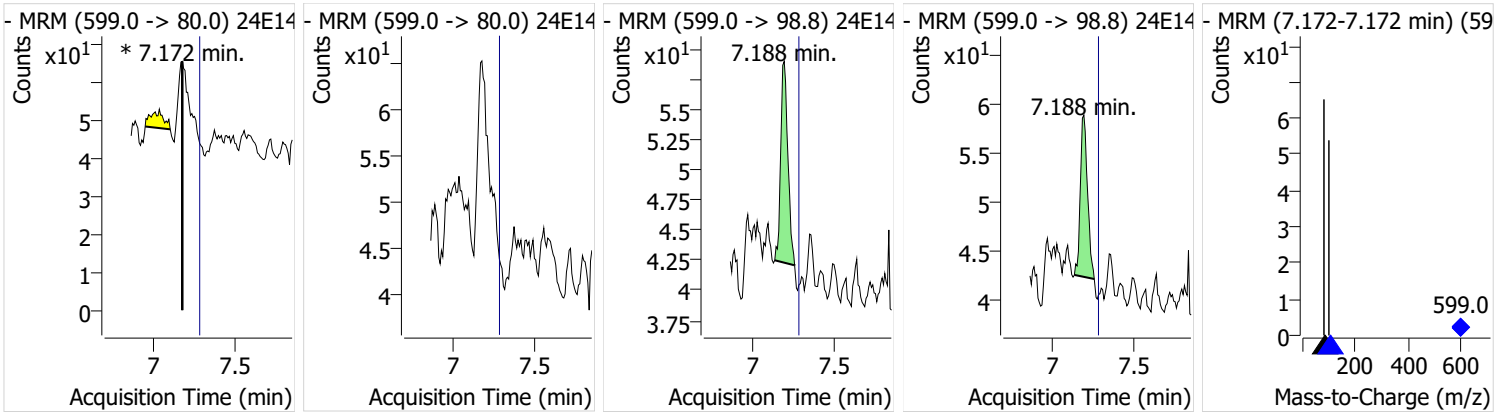

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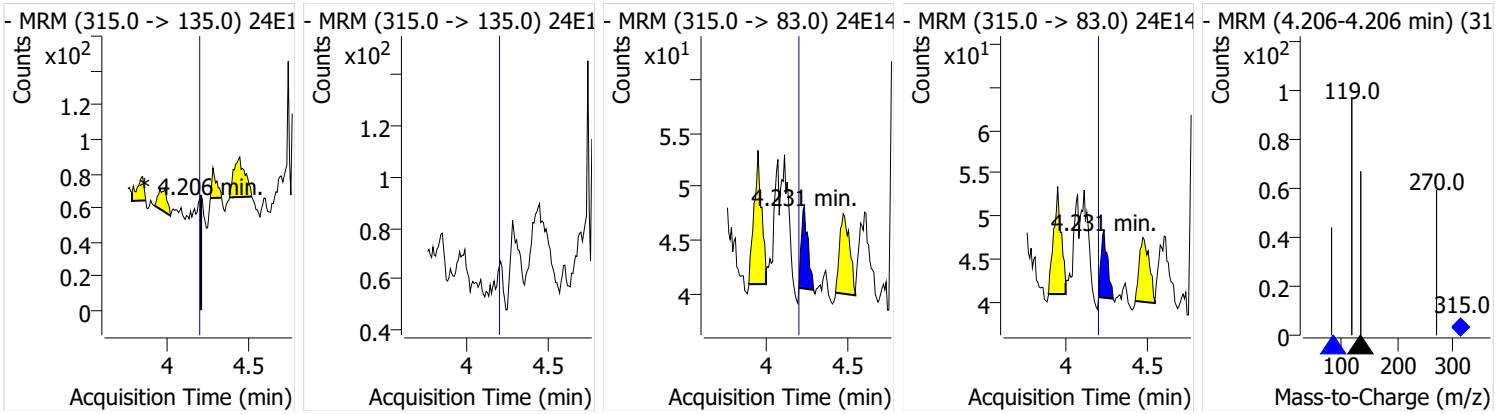
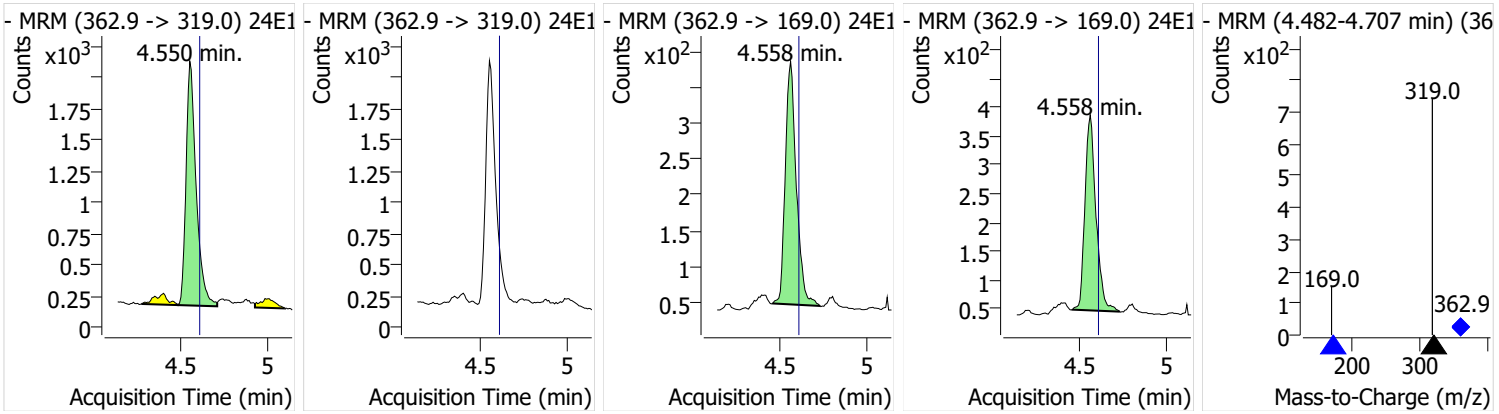


PFHpA



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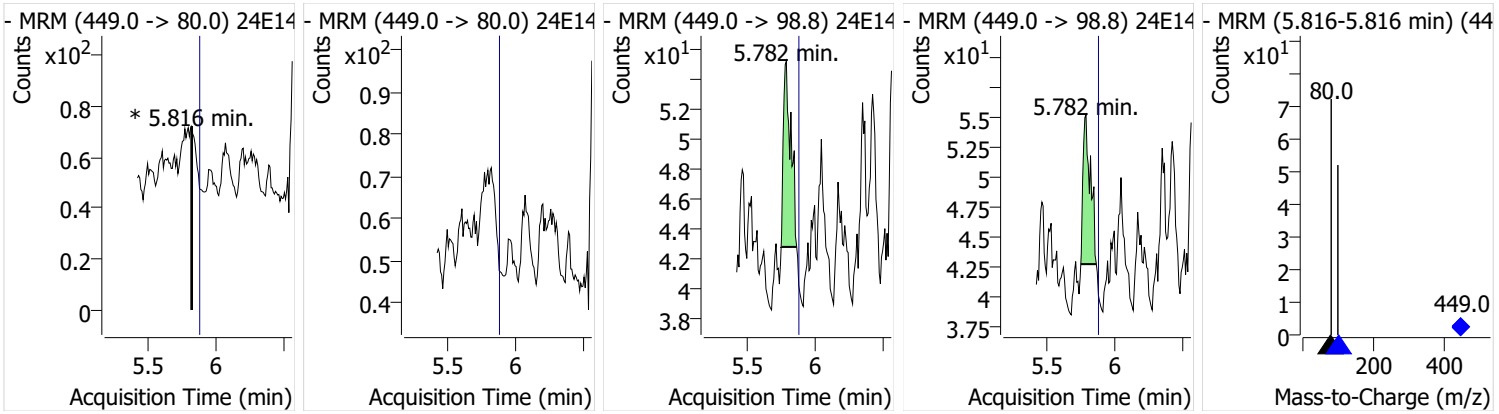

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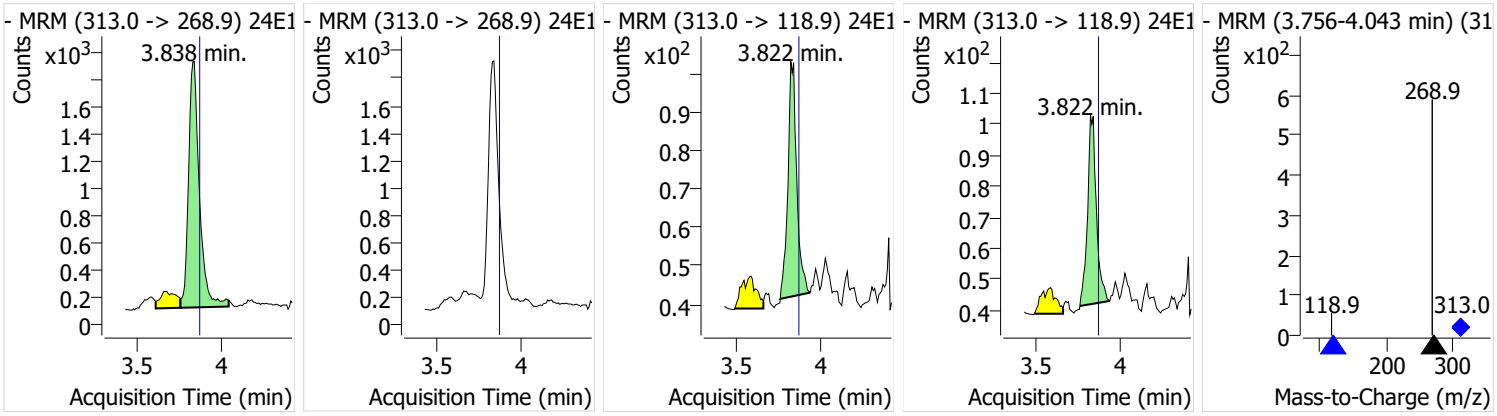
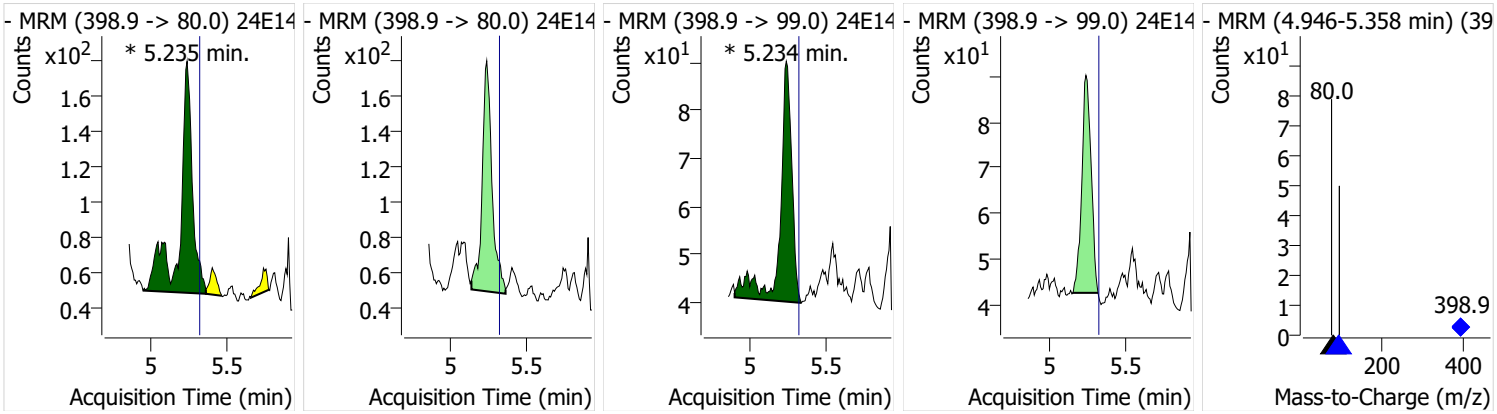


PFHxS



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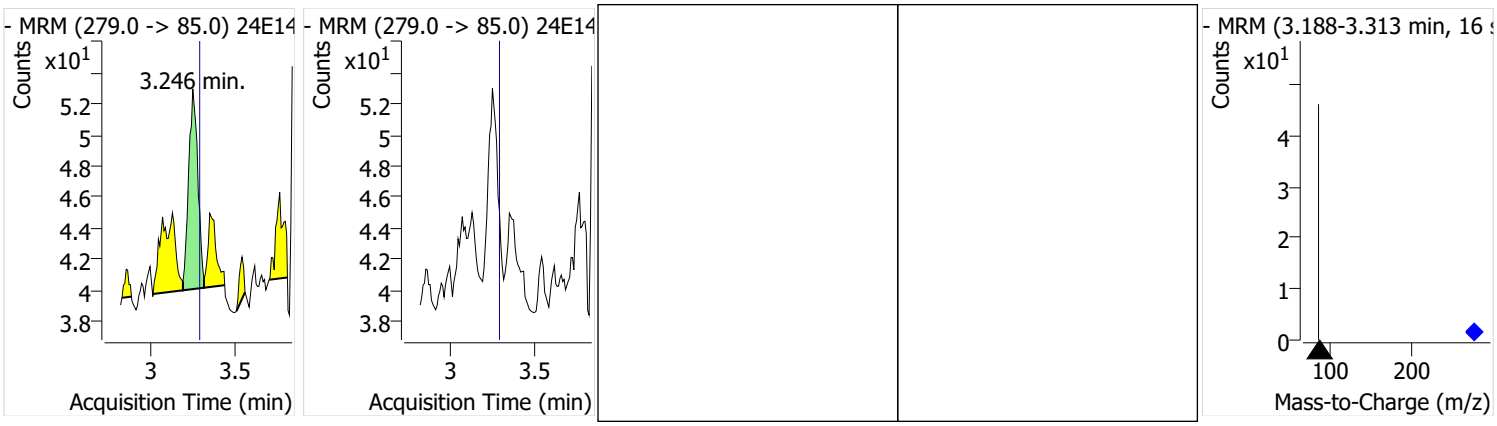

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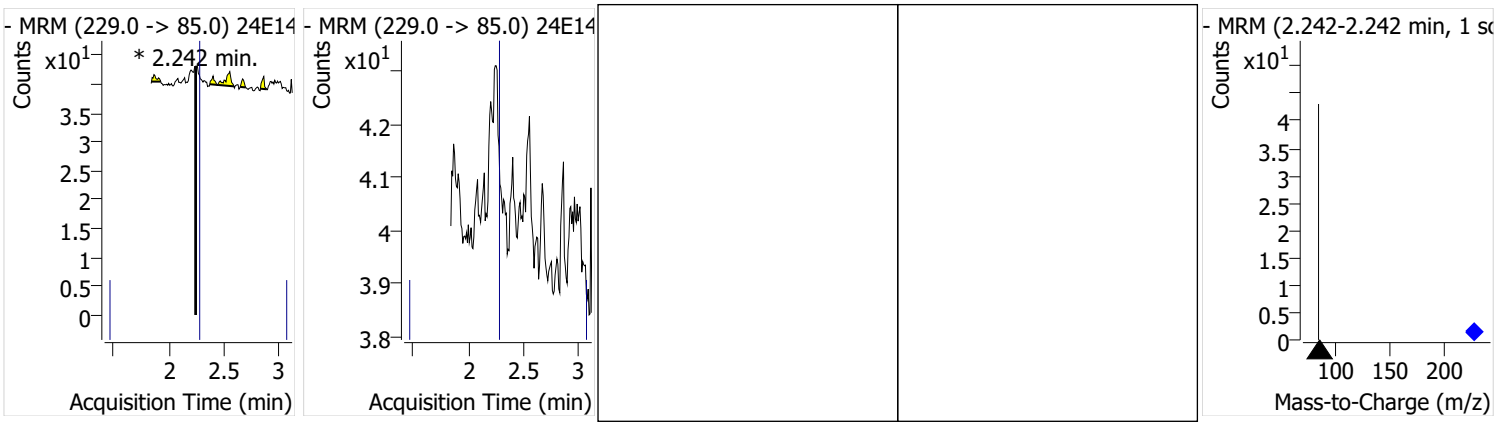

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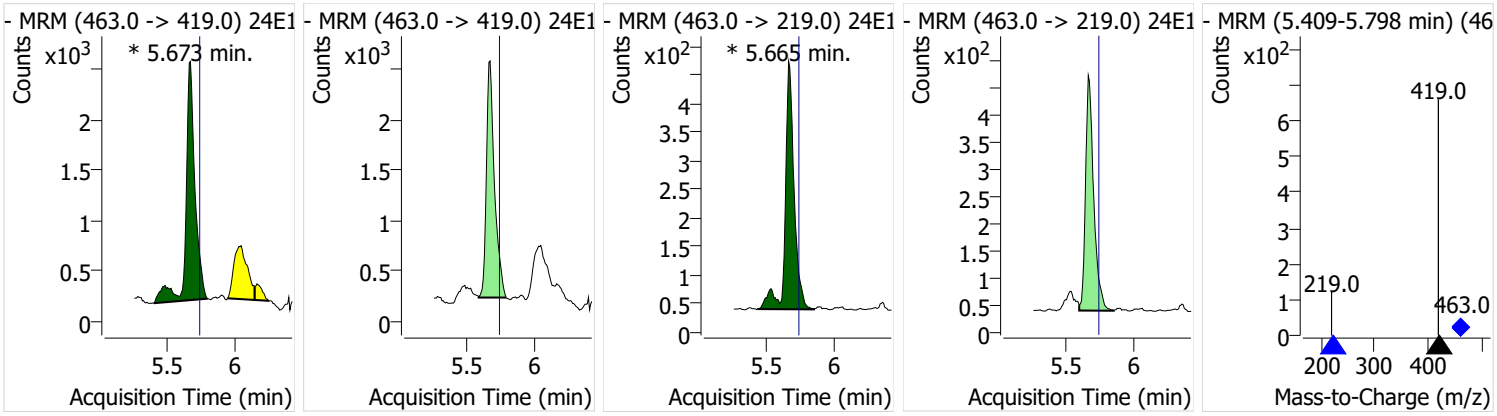

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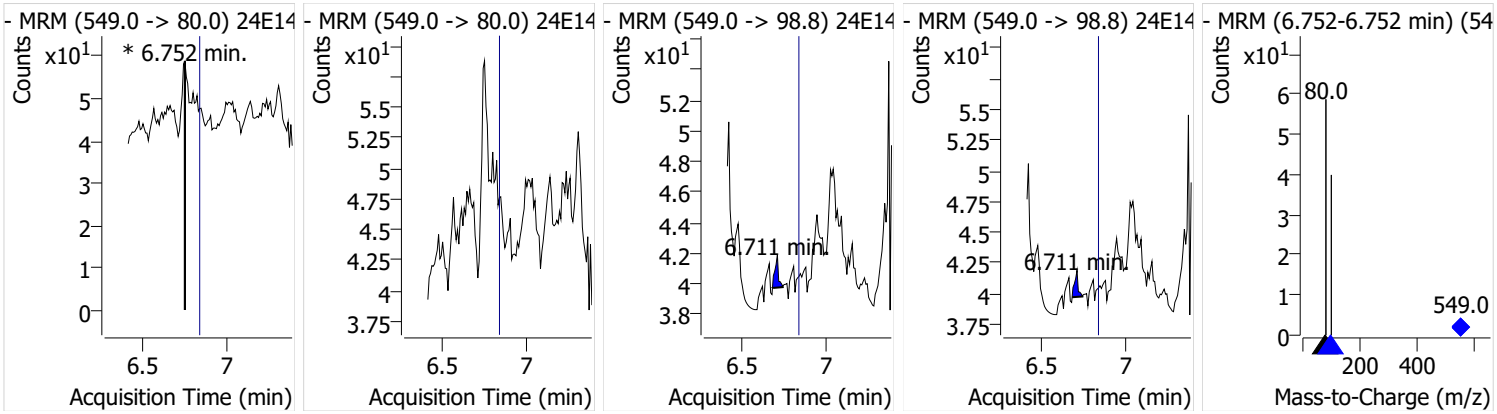
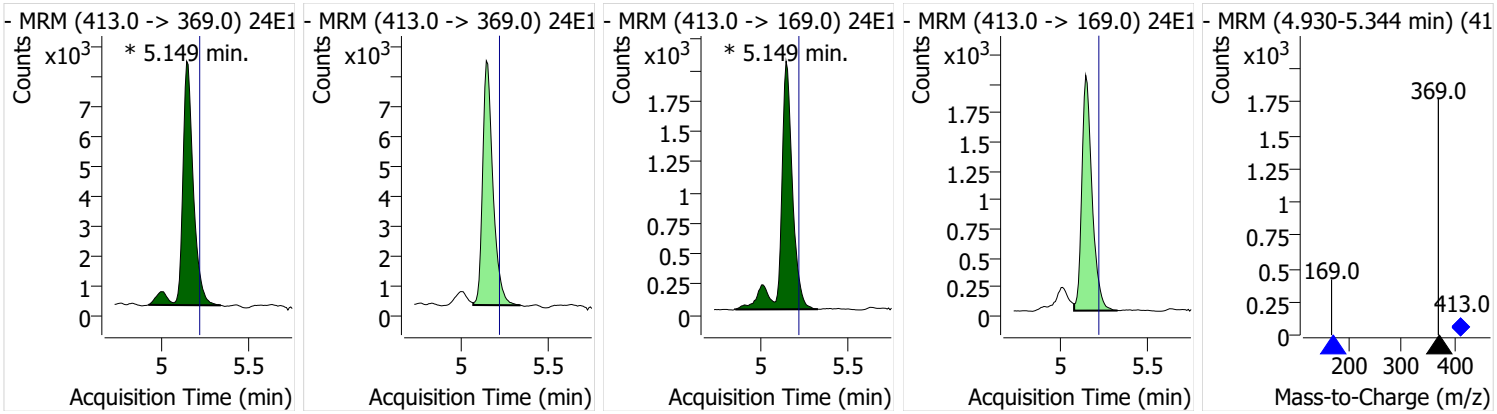


PFOA



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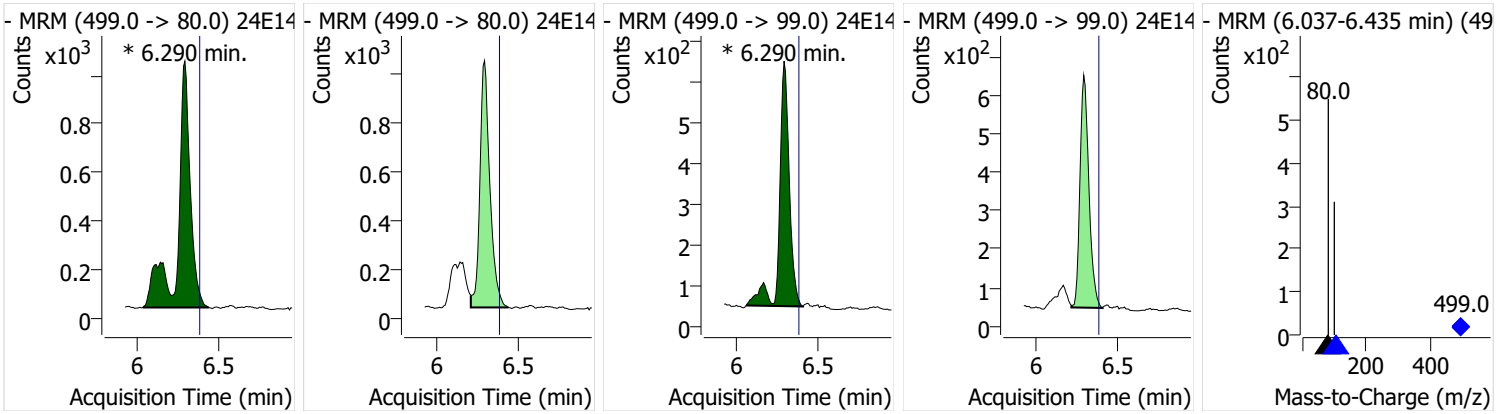
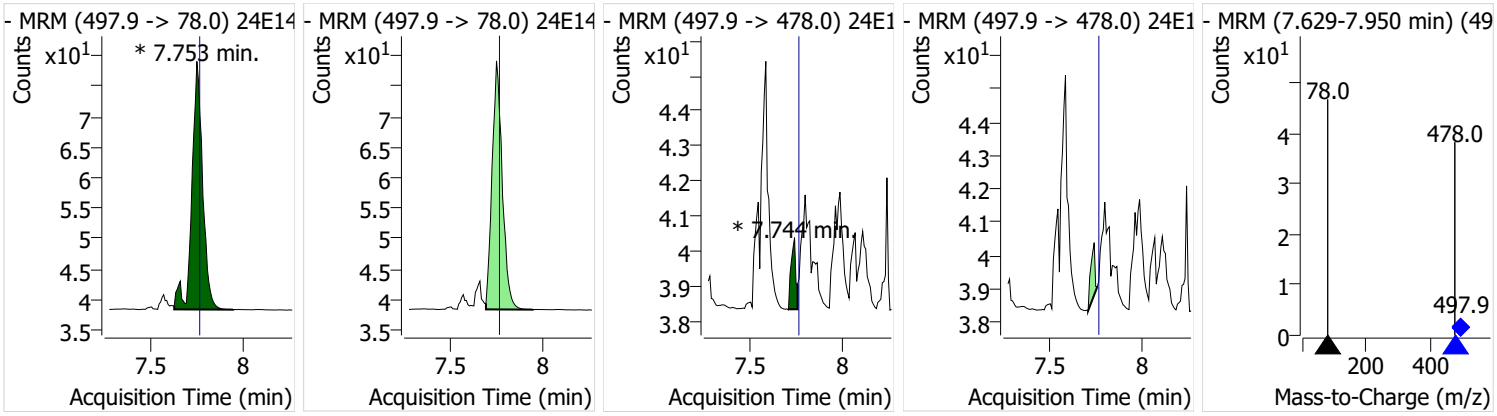


PFOSA



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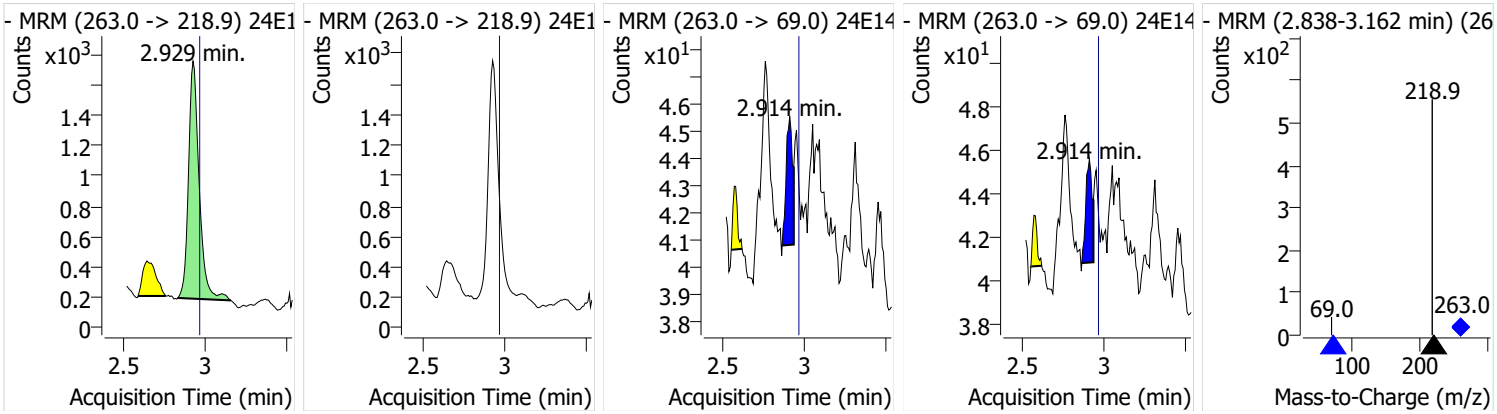
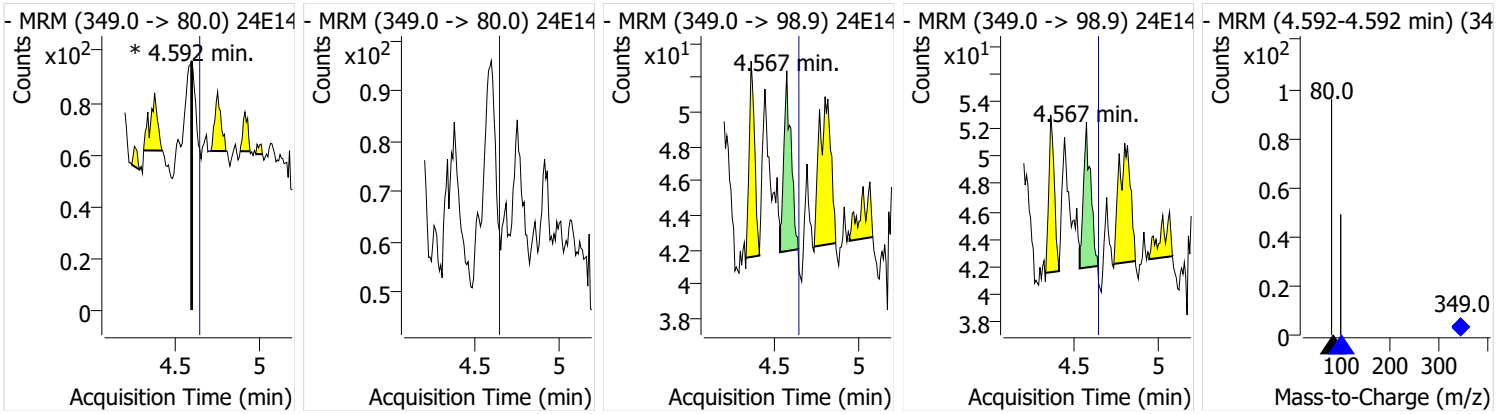


PFPeS



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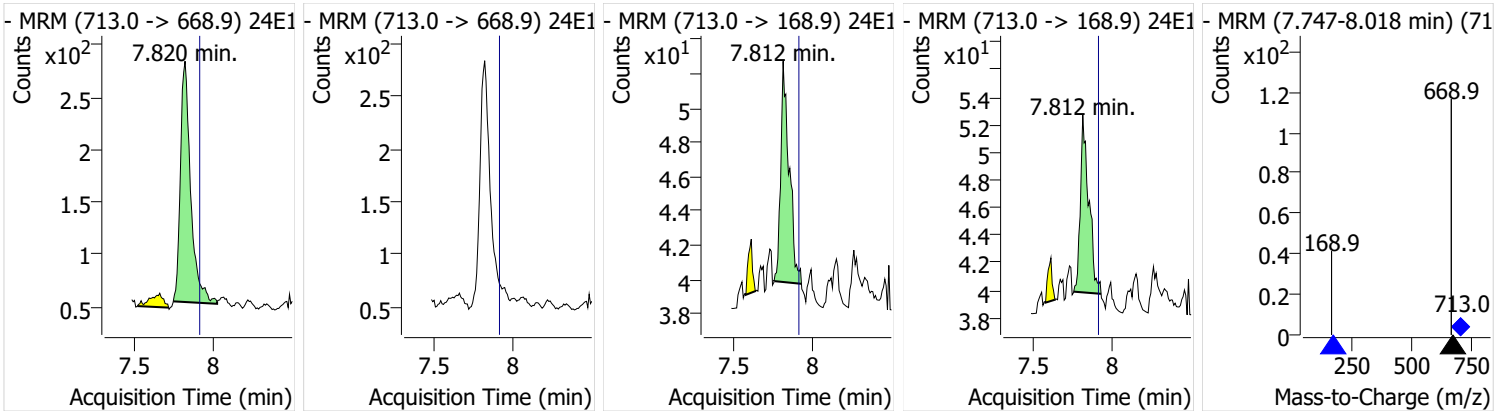
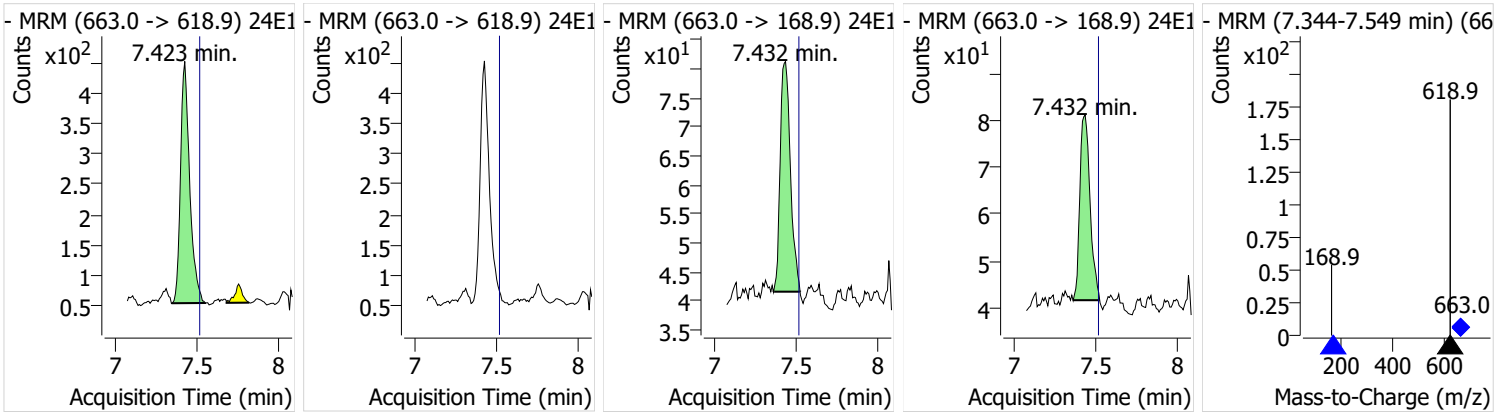


PFTrDA



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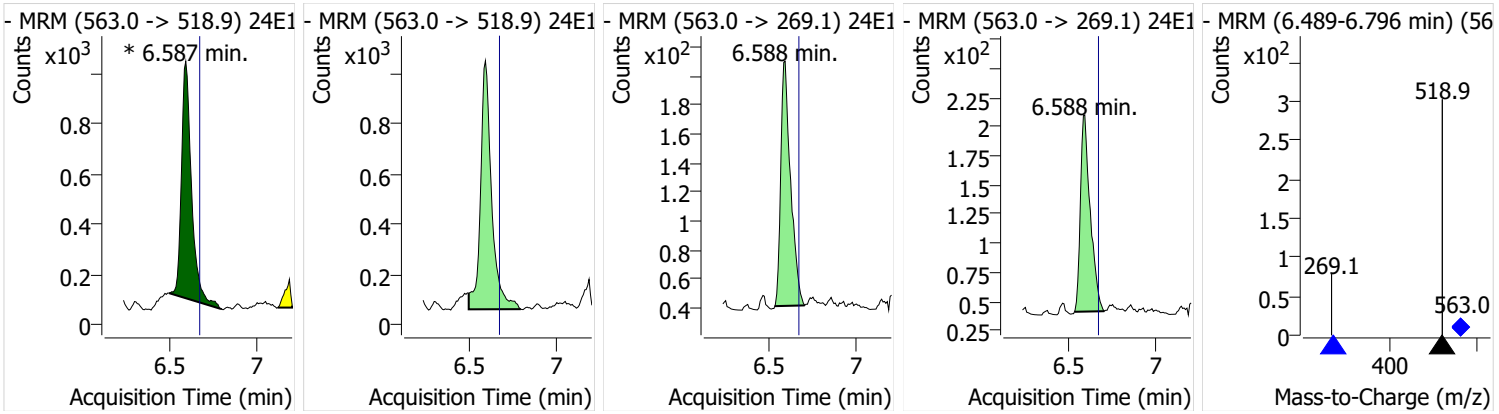

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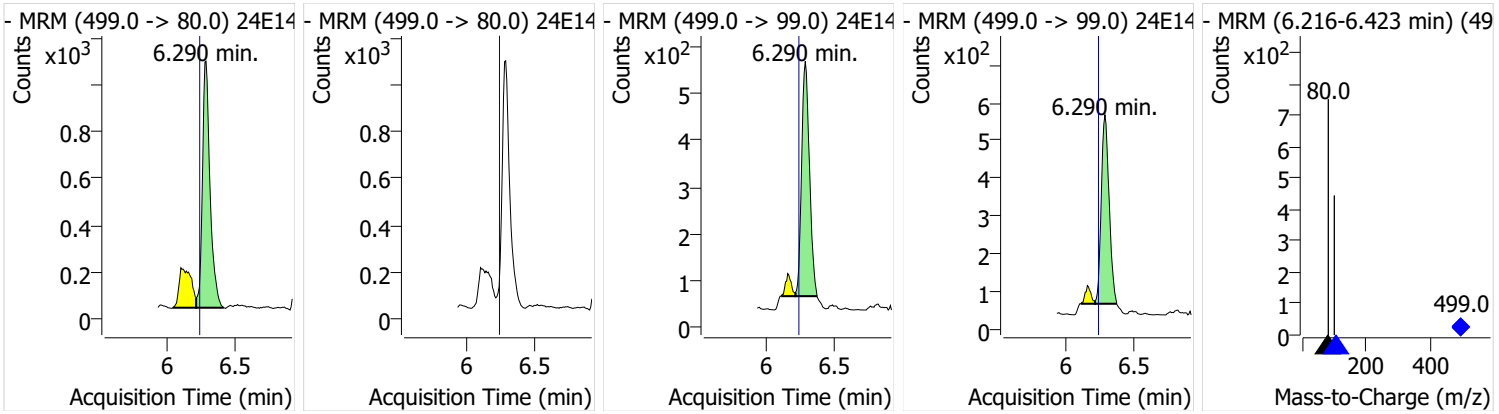
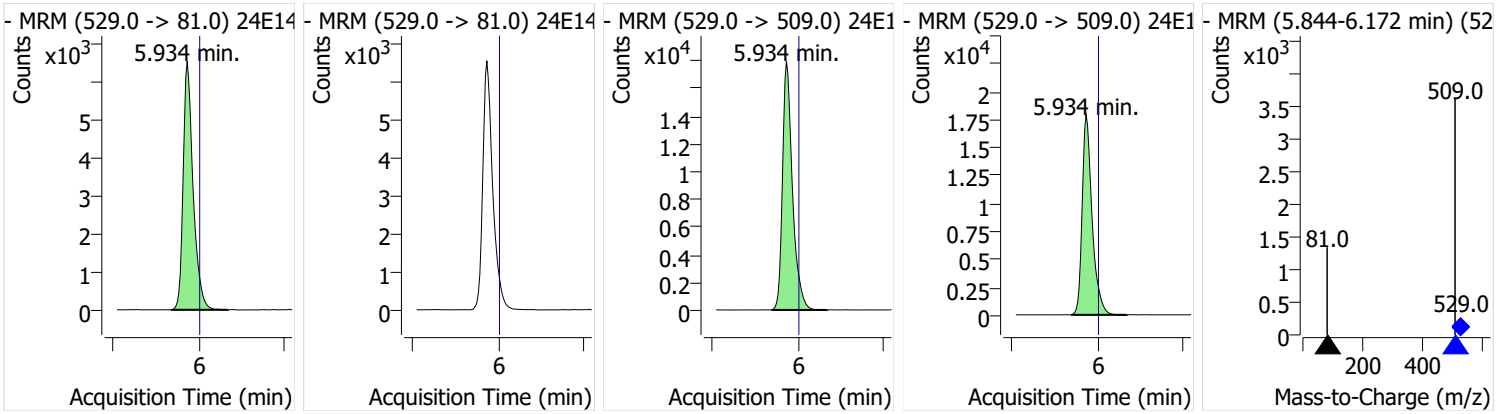
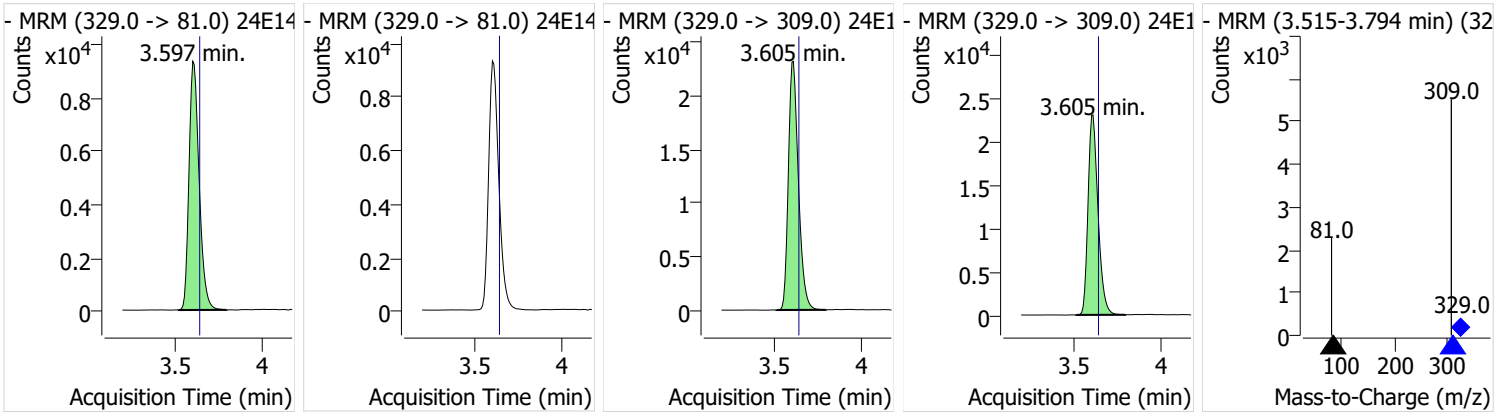


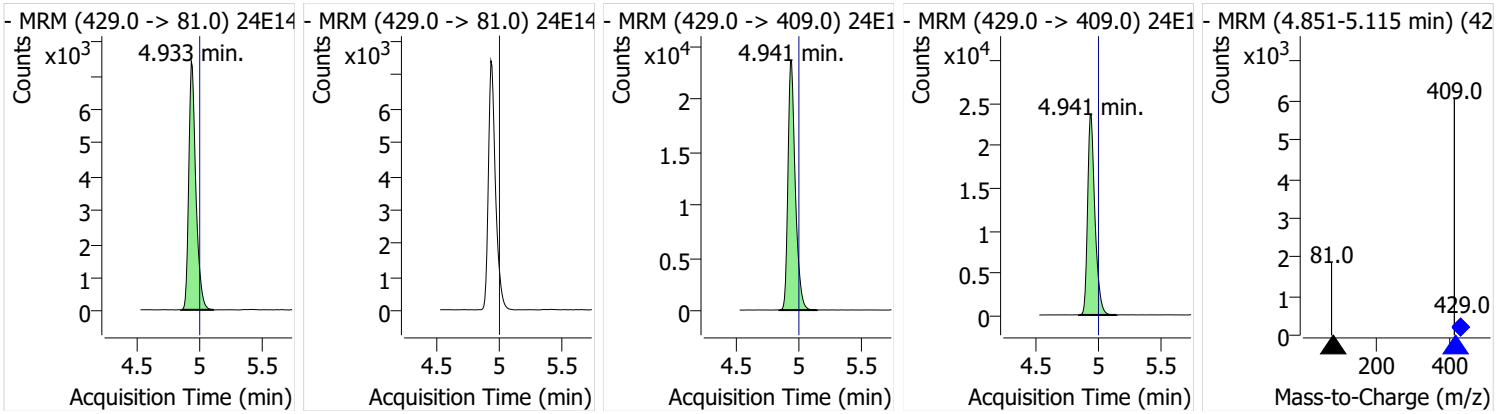
13C2-8:2FTS



13C2-4:2FTS



13C2-6:2FTS



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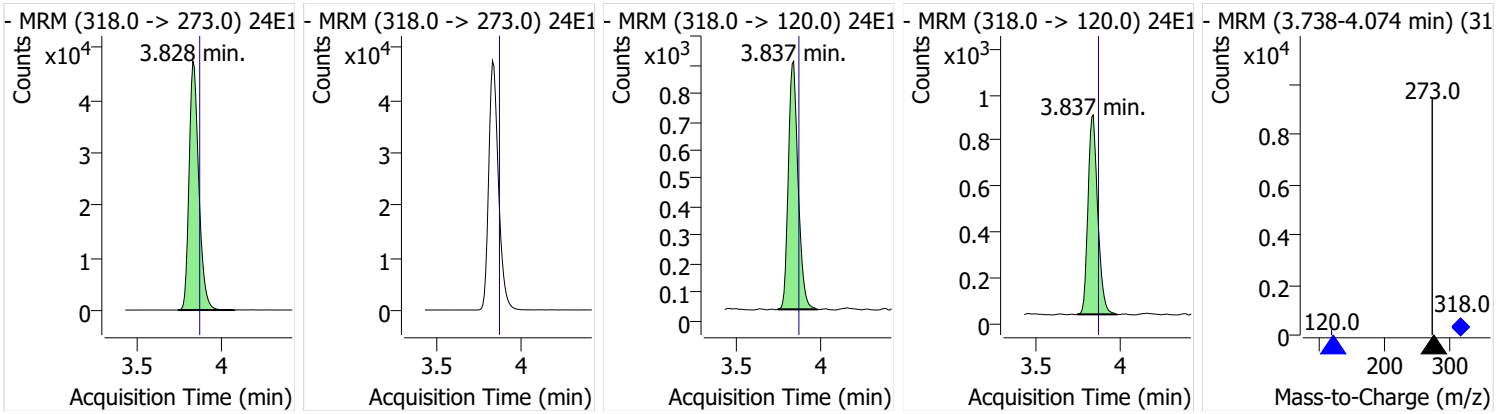
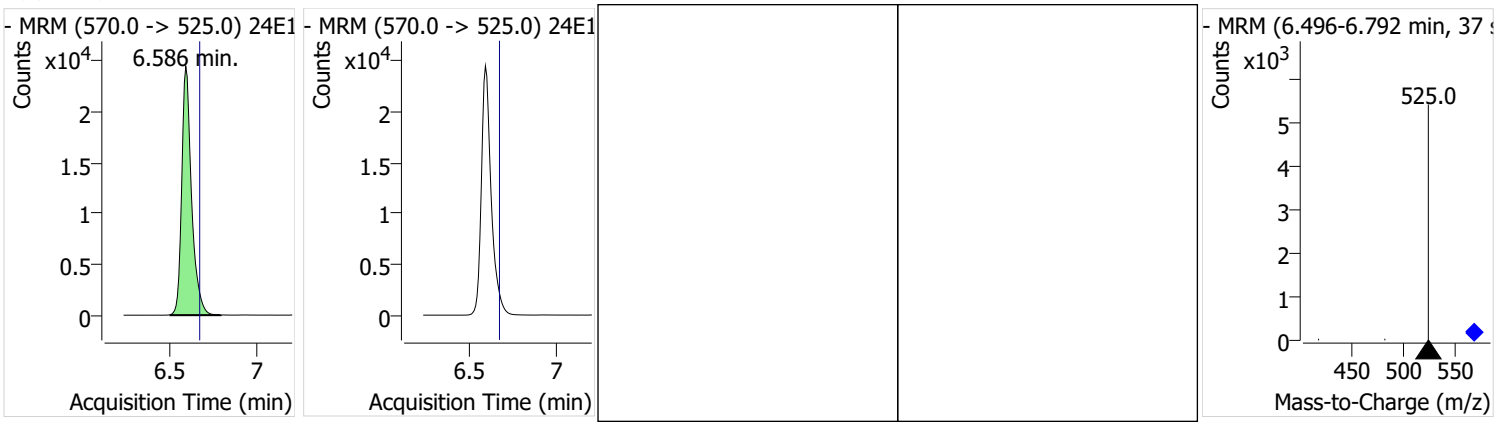


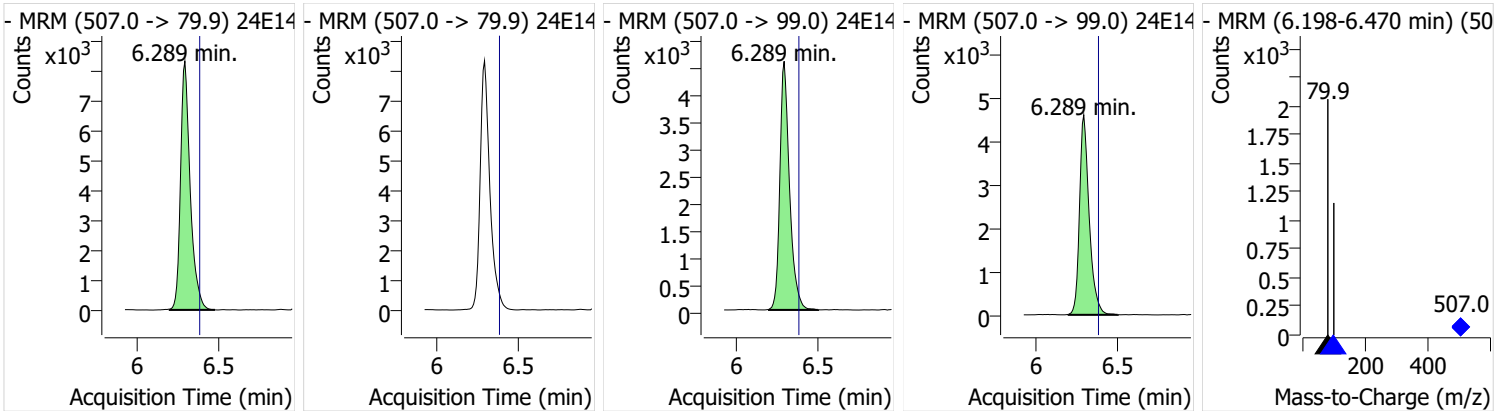
13C6-PFDA

13C7-PFUnA



13C8-PFOA

13C8-PFOS



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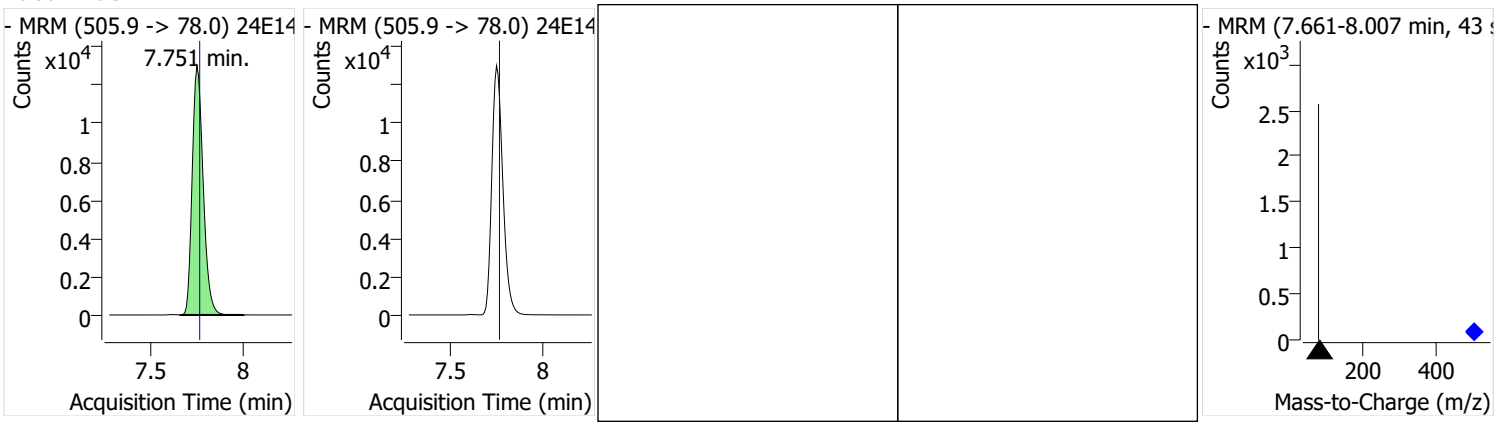

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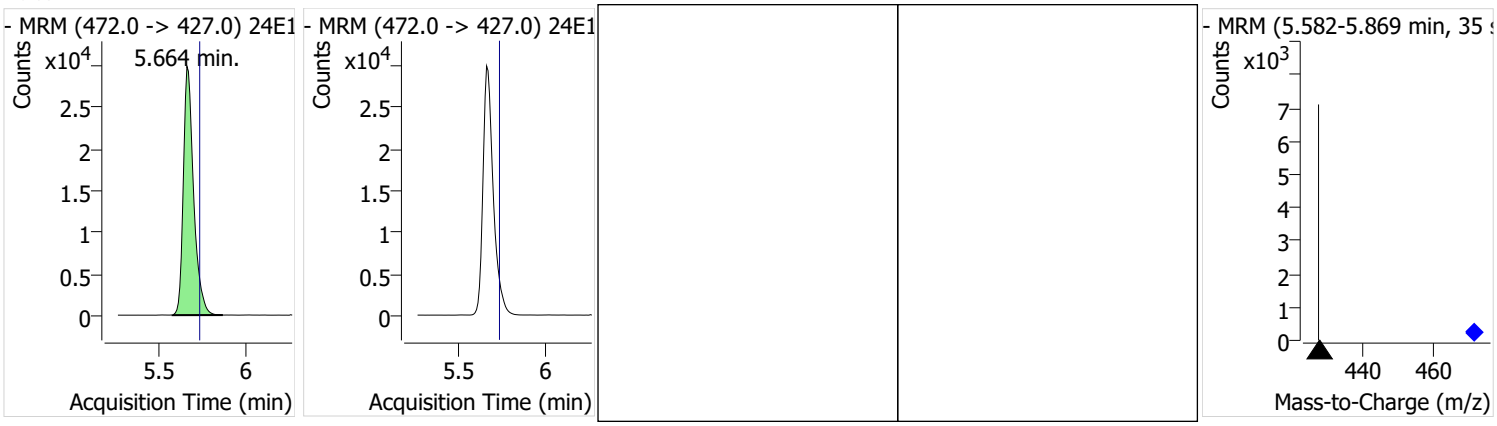
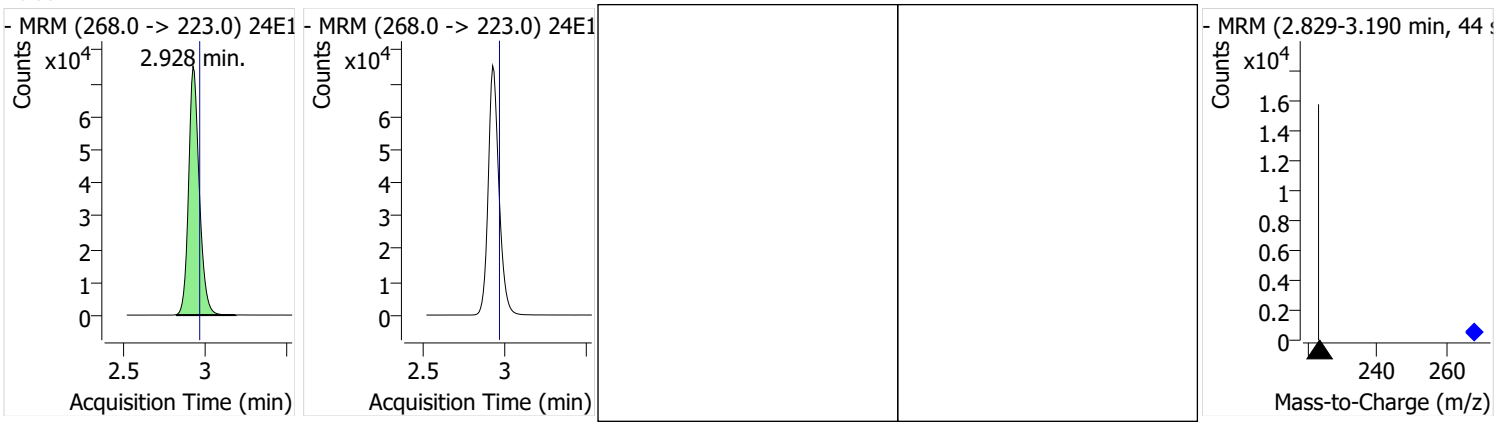
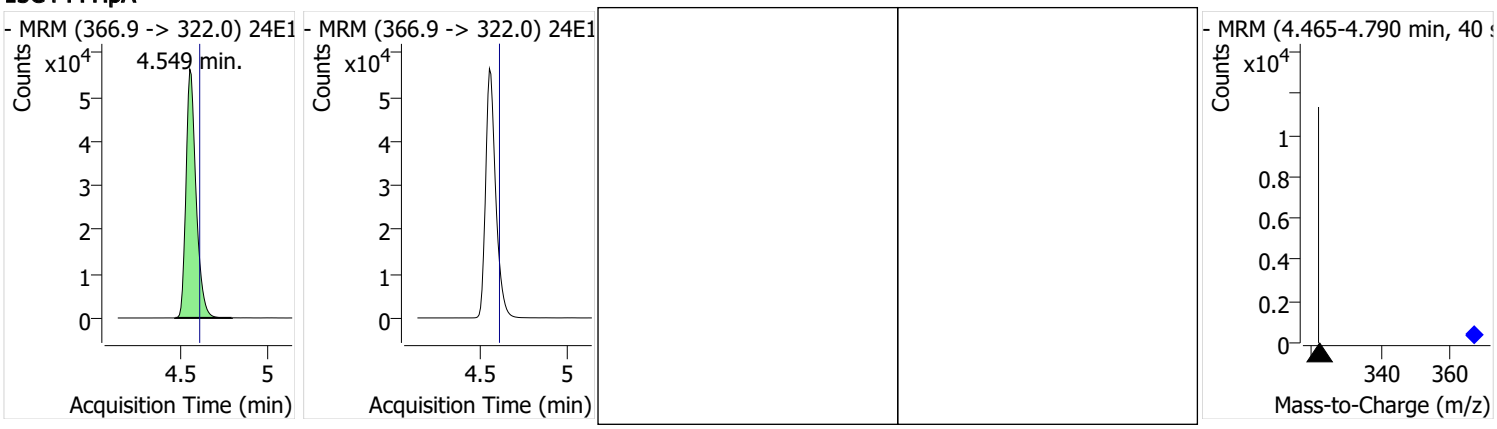


13C5-PFPeA

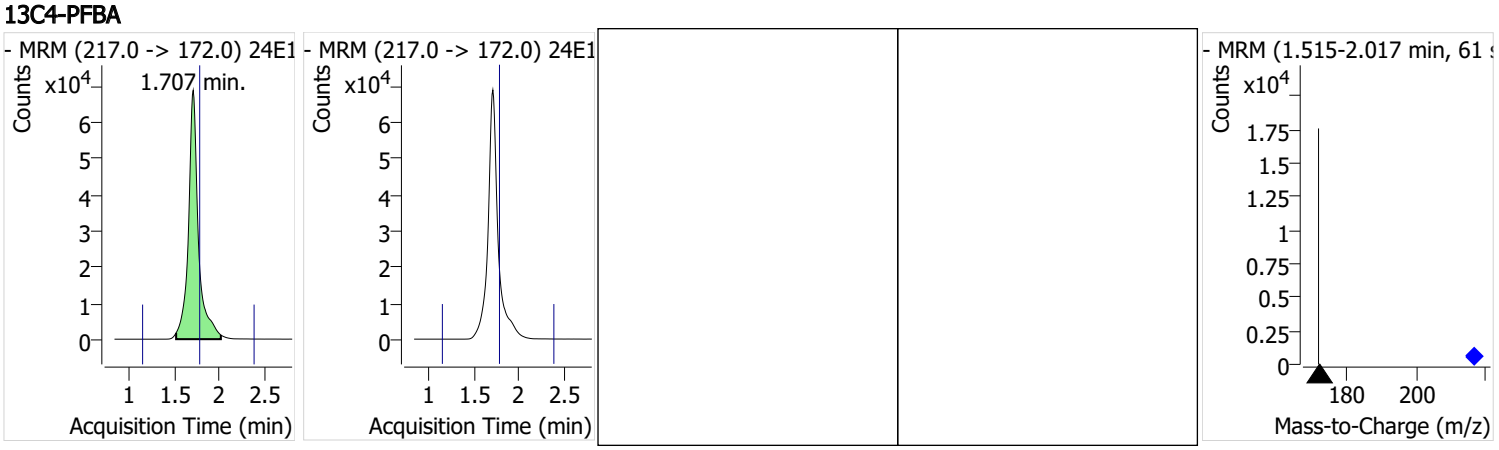


13C2-PFDoA

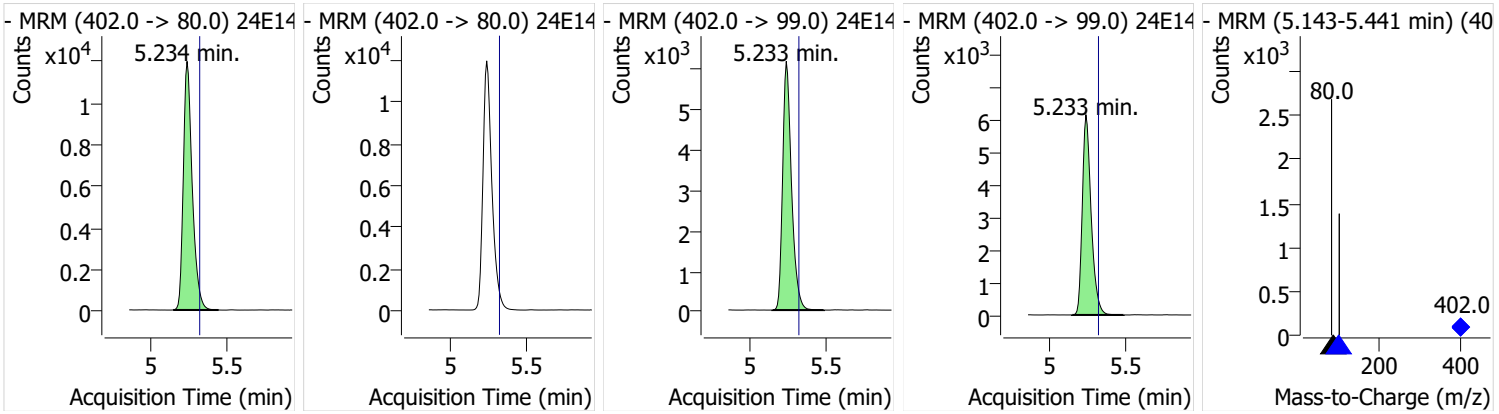
13C4-PFHpA



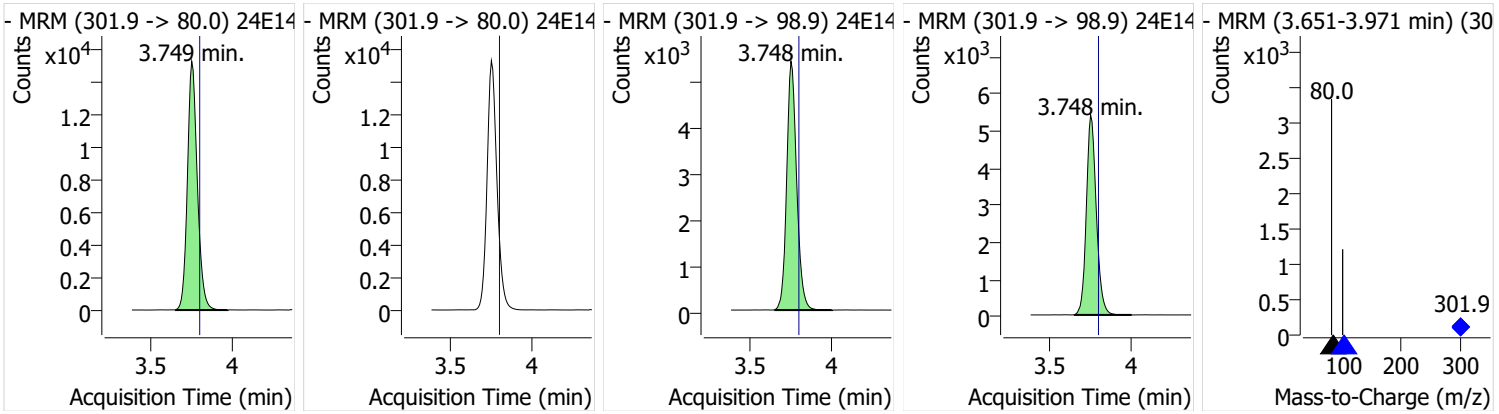
13C4-PFBA



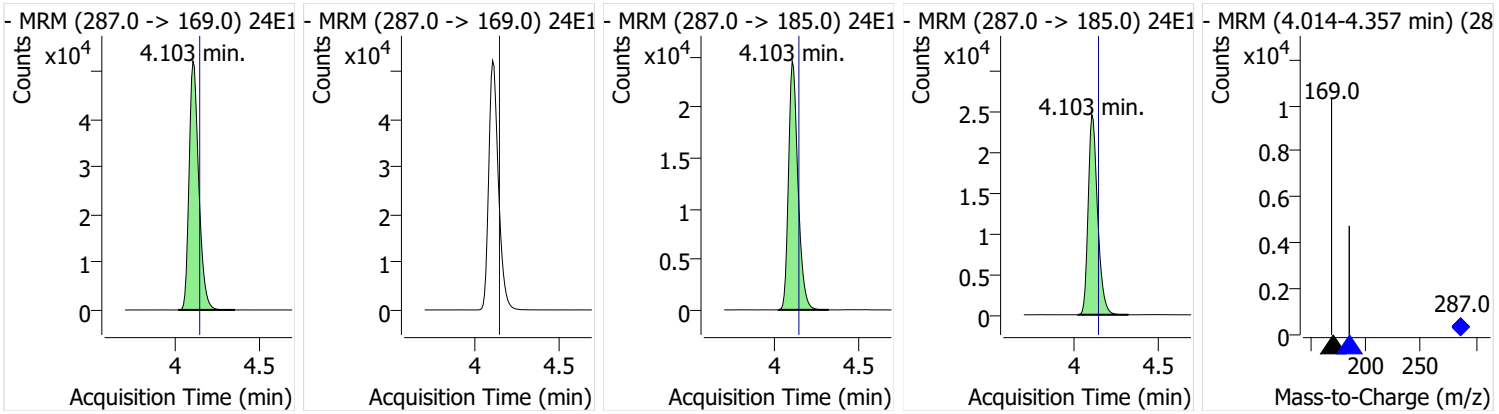
13C3-PFHxS



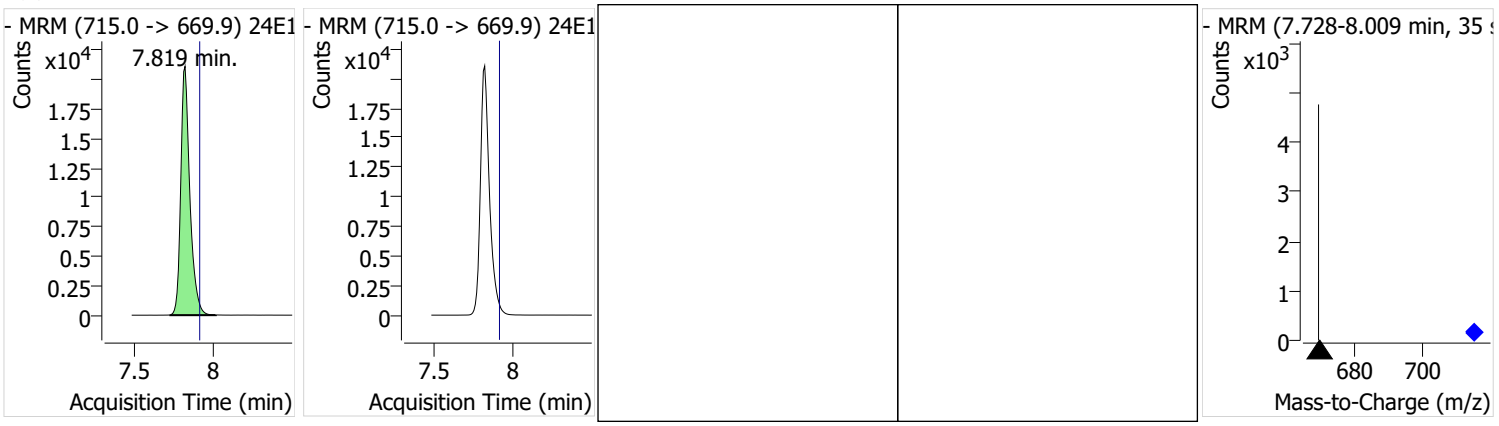
13C3-PFBS



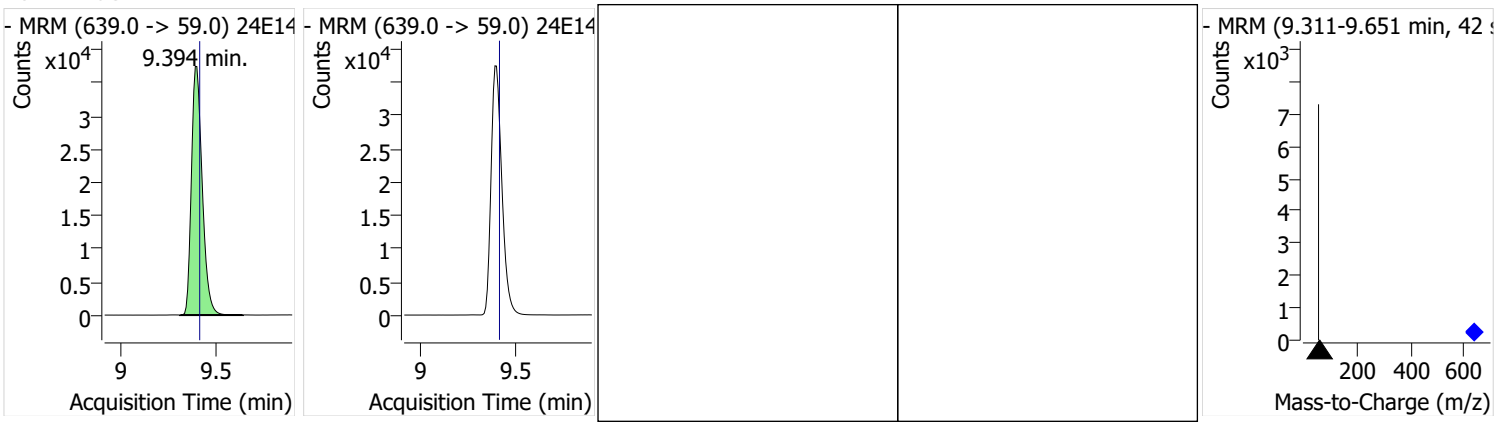
13C3-HFPODA



13C2-PFTeDA



D9-NEtFOSE

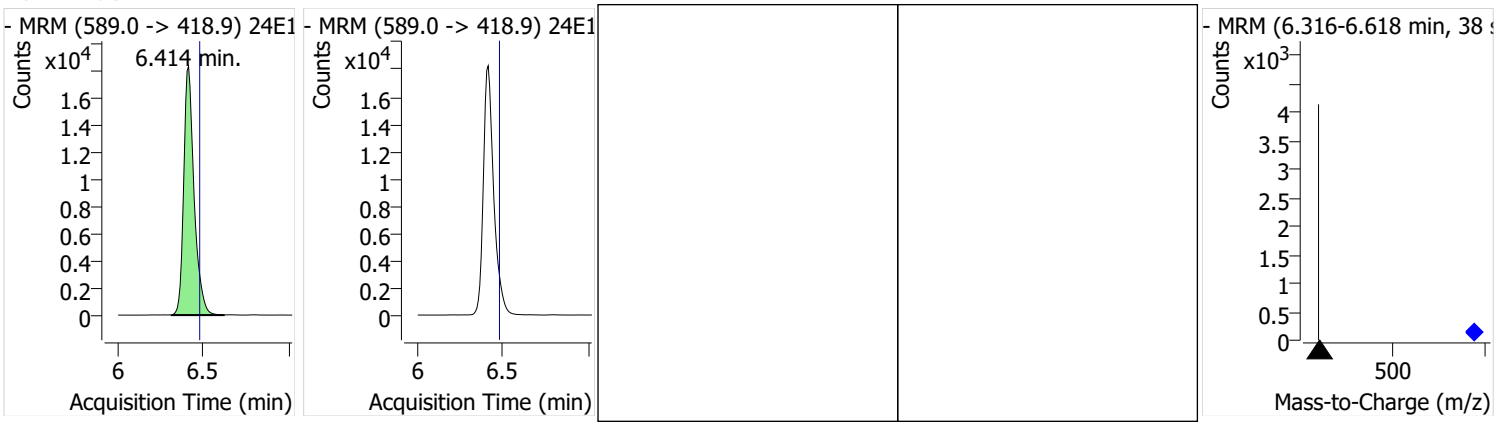


D3-NMeFOSA

D3-NMeFOSAA

D5-NEtFOSA

D5-NEtFOSAA



D7-NMeFOSE

1 - FORM I
ANALYSIS DATA SHEET

SB7

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-17	File ID:	24E1437-17.d
Sampled:	05/08/24 15:39	Prepared:	05/15/24 00:00	Analyzed:	05/18/24 11:26
Solids:	69.34	Preparation:	Draft Method 1633	Dilution:	1
Initial/Final:	7.386 g / 5 mL				
Batch:	B374213	Sequence:	S104823	Calibration:	2400518
				Instrument:	QQQ6

CAS NO.	COMPOUND	CONC. (µg/kg dry)	MDL	RL	Q
375-22-4	Perfluorobutanoic acid (PFBA)		0.32	0.78	
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.082	0.044	0.39	J
307-24-4	Perfluorohexanoic acid (PFHxA)	0.083	0.032	0.20	J
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.12	0.014	0.20	J
335-67-1	Perfluorooctanoic acid (PFOA)	0.49	0.030	0.20	
375-95-1	Perfluorononanoic acid (PFNA)	0.21	0.014	0.20	
335-76-2	Perfluorodecanoic acid (PFDA)	0.11	0.017	0.20	J
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.12	0.023	0.20	J
307-55-1	Perfluorododecanoic acid (PFDoA)	0.047	0.021	0.20	J
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.040	0.022	0.20	J
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.023	0.020	0.20	J
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.035	0.020	0.20	J
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)		0.025	0.20	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)		0.077	0.20	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)		0.021	0.20	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.62	0.031	0.20	
68259-12-1	Perfluorononanesulfonic acid (PFNS)		0.022	0.20	
335-77-3	Perfluorodecanesulfonic acid (PFDS)		0.031	0.20	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)		0.030	0.20	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (		0.068	0.78	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid ((		0.49	0.78	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (		0.091	0.78	
754-91-6	Perfluorooctanesulfonamide (PFOSA)		0.030	0.20	
31506-32-8	N-methyl perfluoroocatnesulfonamide (NMeF		0.024	0.20	
4151-50-2	N-ethyl perfluorooctanesulfonamide (NEtFOS		0.023	0.20	
2355-31-9	N-MeFOSAA (NMeFOSAA)		0.035	0.20	V-05
2991-50-6	N-EtFOSAA (NEtFOSAA)		0.029	0.20	
24448-09-7	N-methylperfluorooctanesulfonamidoethanol(		0.21	2.0	
1691-99-2	N-ethylperfluorooctanesulfonamidoethanol (N		0.21	2.0	
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPC		0.050	0.78	

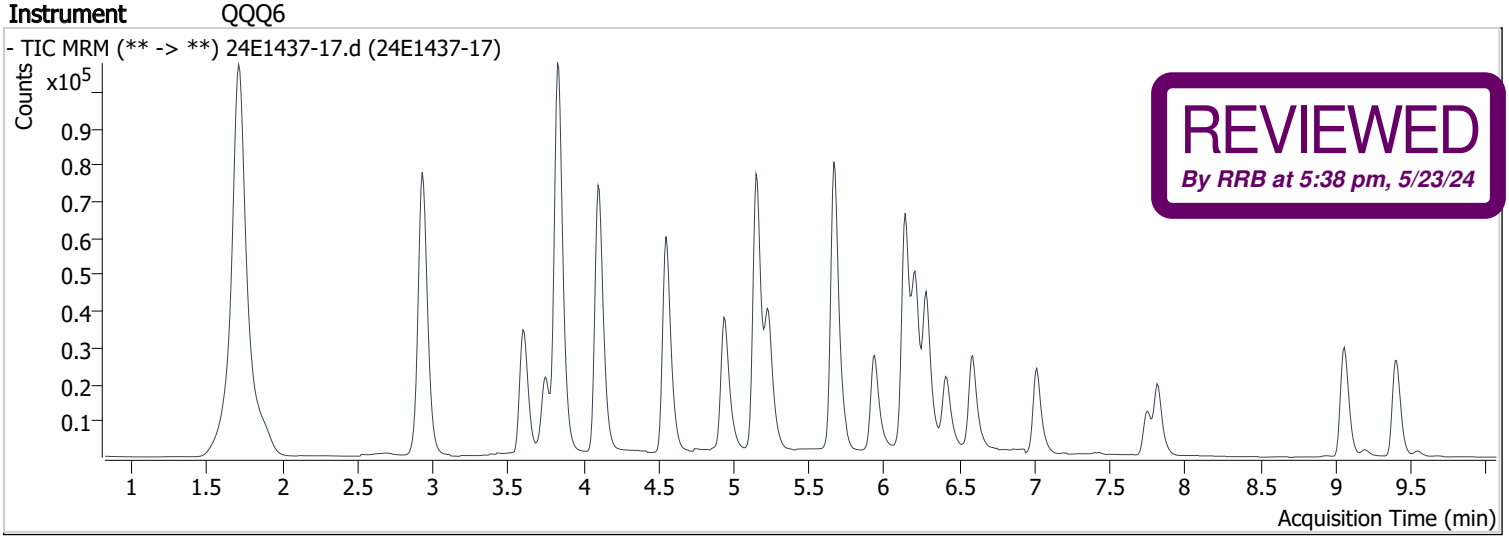
1 - FORM I
ANALYSIS DATA SHEET

SB7

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-17	File ID:	24E1437-17.d
Sampled:	05/08/24 15:39	Prepared:	05/15/24 00:00	Analyzed:	05/18/24 11:26
Solids:	69.34	Preparation:	Draft Method 1633	Dilution:	1
Initial/Final:	7.386 g / 5 mL				
Batch:	B374213	Sequence:	S104823	Calibration:	2400518
Instrument:	QQQ6				

CAS NO.	COMPOUND	CONC. (µg/kg dry)	MDL	RL	Q
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADON		0.058	0.78	
756426-58-1	9Cl-PF3ONS (F53B Minor)		0.056	0.78	
763051-92-9	11Cl-PF3OUdS (F53B Major)		0.087	0.78	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)(3:3		0.19	2.0	
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)		1.3	9.8	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)(7:3		1.5	9.8	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEE		0.031	0.39	
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)		0.032	0.39	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)		0.032	0.39	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)		0.059	0.39	

Batch Path	R:\Data\MAY2024\051724\QuantResults\B374213.batch.bin		
Analysis Time	5/23/2024 5:54 AM	**Last Calib Update**	5/9/2024 9:16 AM
Acq. Time	5/18/2024 11:26 AM	**Data File**	24E1437-17.d
Sample Type	Sample	**Sample Name**	24E1437-17
Dilution	1	**Acq. Method**	1633_ACQUISITION_01.m
Sample Comment		**Processing method**	1633_050824.m
Instrument	QQQ6		



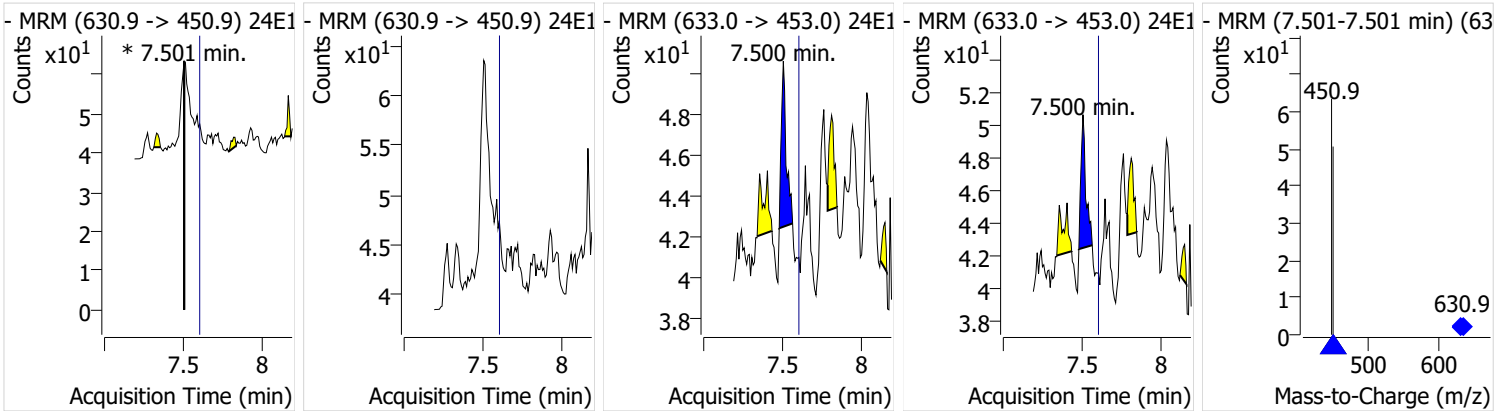
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
11Cl-PF3OUdS	7.501	0			13C3-HFPODA - ISTD	4.103	197410	-	ng/ml	✔	1	ALB 5/22/24
633.0 -> 453.0				*								
3:3FTCA	2.557	0			13C5-PFPeA - ISTD	2.928	334970	-	ng/ml	✔	1	ALB 5/22/24
241.0 -> 117.0				*								
4:2FTS	3.688	0			13C2-4:2FTS - ISTD	3.597	39228	-	ng/ml	✔	1	ALB 5/22/24
327.0 -> 80.9				*								
5:3FTCA	4.318	0			13C5-PFHxA - ISTD	3.828	181802	-	ng/ml	✔	1	ALB 5/22/24
341.0 -> 217.0				*								
6:2FTS	4.942	667	41.77		13C2-6:2FTS - ISTD	4.933	32317	0.0305	ng/ml	✔	3	ALB 5/22/24
427.0 -> 80.9			7.91	29.5								
7:3FTCA	5.674	0			13C5-PFHxA - ISTD	3.828	181802	-	ng/ml	✔	1	ALB 5/22/24
441.0 -> 317.0				*								
8:2FTS	5.951	0			13C2-8:2FTS - ISTD	5.934	26507	-	ng/ml	✔	1	ALB 5/22/24
527.0 -> 81.0				*								
9Cl-PF3ONS	6.729	0			13C3-HFPODA - ISTD	4.103	197410	-	ng/ml	✔	1	ALB 5/22/24
533.0 -> 353.0				*								
ADONA	4.789	0			13C3-HFPODA - ISTD	4.103	197410	-	ng/ml	✔	1	ALB 5/22/24
377.0 -> 85.1				*								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA	4.088	0			13C3-HFPODA - ISTD	4.103	197410	-	ng/ml	✔	1	ALB 5/22/24
285.0 -> 184.9				*								
NEtFOSA	9.556	0			D5-NEtFOSA - ISTD	9.546	4654	-	ng/ml	✔	1	ALB 5/22/24
526.0 -> 219.0				*								
NEtFOSAA	6.398	0			D5-NEtFOSAA - ISTD	6.406	77554	-	ng/ml	✔	1	ALB 5/22/24
584.0 -> 526.0				*								
NEtFOSE	9.412	116	8.99		D9-NEtFOSE - ISTD	9.394	102747	0.0252	ng/ml	✔	3	ALB 5/22/24
NFDHA	3.742	49	285.07		13C5-PFHxA - ISTD	3.828	181802	0.0080	ng/ml			
295.0 -> 85.0			4.16	28.7								
NMeFOSA	9.352	0			D3-NMeFOSA - ISTD	9.201	6183	-	ng/ml	✔	1	ALB 5/22/24
512.0 -> 219.0				*								
NMeFOSAA	6.203	0			D3-NMeFOSAA - ISTD	6.203	148517	-	ng/ml	✔	1	ALB 5/22/24
570.0 -> 418.9				*								
NMeFOSE	9.066	0			D7-NMeFOSE - ISTD	9.057	116974	-	ng/ml	✔	1	ALB 5/22/24
PFBA	1.712	7960	226.41		13C4-PFBA - ISTD	1.707	516781	0.1669	ng/ml			
PFBS	3.741	1135	31.22		13C3-PFBS - ISTD	3.749	63979	0.0356	ng/ml	✔	3	ALB 5/22/24
298.9 -> 98.8			44.76	25.4								
PFDA	6.140	9497	172.68		13C6-PFDA - ISTD	6.140	103656	0.1112	ng/ml			
513.0 -> 219.0			240.30	15.3								
PFDoA	7.012	3478	148.43		13C2-PFDoA - ISTD	7.011	87956	0.0477	ng/ml			
613.0 -> 319.0			173.96	14.5								
PFDoS	8.103	0			13C8-PFOS - ISTD	6.281	33505	-	ng/ml	✔	1	ALB 5/22/24
698.9 -> 99.0				*								
PFDS	7.345	0			13C8-PFOS - ISTD	6.281	33505	-	ng/ml	✔	1	ALB 5/22/24
599.0 -> 98.8				*								
PFEESA	4.173	0			13C5-PFHxA - ISTD	3.828	181802	-	ng/ml	✔	1	ALB 5/22/24
315.0 -> 83.0				*								
PFHpA	4.550	10850	119.72		13C4-PFHpA - ISTD	4.549	217073	0.1199	ng/ml			
362.9 -> 169.0			301.84	20.0								
PFHpS	5.824	0			13C8-PFOS - ISTD	6.281	33505	-	ng/ml	✔	1	ALB 5/22/24
449.0 -> 98.8				*								
PFHxA	3.830	6306	78.64		13C5-PFHxA - ISTD	3.828	181802	0.0853	ng/ml	✔	3	ALB 5/22/24
313.0 -> 118.9			39.55	3.5								

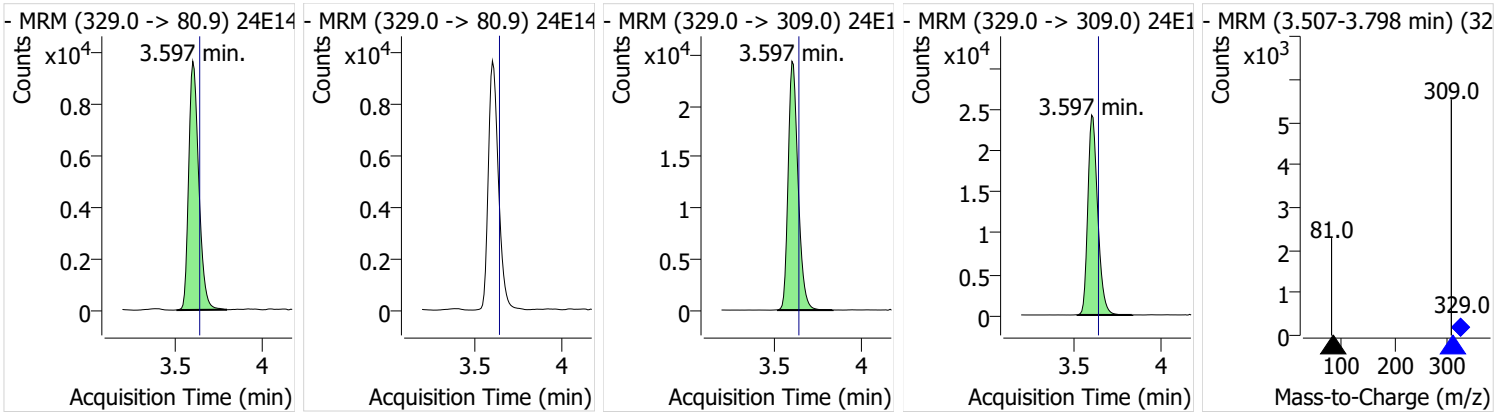
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFHxS	5.235	1026	17.09		13C3-PFHxS - ISTD	5.234	47103	0.0482	ng/ml	✔	3	ALB 5/22/24
398.9 -> 99.0			29.72	32.4								
PFMBA	3.238	41	29.62		13C5-PFPeA - ISTD	2.928	334970	0.0009	ng/ml			
PFMPA	2.267	0			13C5-PFPeA - ISTD	2.928	334970	-	ng/ml	✔	1	ALB 5/22/24
PFNA	5.665	20348	234.32		13C9-PFNA - ISTD	5.664	116065	0.2180	ng/ml			
463.0 -> 219.0			632.34	21.9								
PFNS	6.851	0			13C8-PFOS - ISTD	6.281	33505	-	ng/ml	✔	1	ALB 5/22/24
549.0 -> 98.8				*								
PFOA	5.149	50578	583.47		13C8-PFOA - ISTD	5.148	200903	0.5014	ng/ml			
413.0 -> 169.0			1258.87	23.6								
PFOS	6.282	11062	145.59		13C8-PFOS - ISTD	6.281	33505	0.6352	ng/ml	✔	3	ALB 5/22/24
499.0 -> 99.0			493.79	52.6								
PFOSA	7.736	0			13C8-PFOSA - ISTD	7.751	47649	-	ng/ml	✔	1	ALB 5/22/24
497.9 -> 478.0				*								
PFPeA	2.929	5651	137.04		13C5-PFPeA - ISTD	2.928	334970	0.0835	ng/ml			
263.0 -> 69.0			6.88	0.2								
PFPeS	4.699	0			13C3-PFHxS - ISTD	5.234	47103	-	ng/ml	✔	1	ALB 5/22/24
349.0 -> 98.9				*								
PFTeDA	7.820	1271	90.28		13C2-PFTeDA - ISTD	7.811	68418	0.0231	ng/ml			
713.0 -> 168.9			56.88	9.4								
PFTrDA	7.423	2537	175.12		13C2-PFDoA - ISTD	7.011	87956	0.0409	ng/ml			
663.0 -> 168.9			198.44	14.6								
PFUnA	6.579	9185	307.76		13C7-PFUnA - ISTD	6.586	90845	0.1258	ng/ml			
563.0 -> 269.1			262.56	17.3								
TDCA	6.282	8980	278.48					-	ng/ml			
499.0 -> 99.0			473.60	***56.4**								
13C2-8:2FTS	5.934	26507	651.96		18O2-PFHxS	5.233	57178	7.0528	ng/ml			
529.0 -> 509.0			14387.99	285.6								
13C2-4:2FTS	3.597	39228	1032.30		18O2-PFHxS	5.233	57178	5.7331	ng/ml			
329.0 -> 309.0			11395.63	248.9								
13C2-6:2FTS	4.933	32317	1427.13		18O2-PFHxS	5.233	57178	6.9894	ng/ml			
429.0 -> 409.0			12408.96	340.0								
13C5-PFHxA	3.828	181802	53858.87		13C2-PFHxA	3.829	220820	1.9979	ng/ml			
318.0 -> 120.0			1415.02	1.9								
13C6-PFDA	6.140	103656	10486.48		13C2-PFDA	6.140	134173	0.9791	ng/ml			
13C7-PFUnA	6.586	90845	9710.59		13C2-PFDA	6.140	134173	1.0600	ng/ml			
13C8-PFOA	5.148	200903	27589.57		13C4-PFOA	5.148	36893	1.9863	ng/ml			

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
13C8-PFOS	6.281	33505	778.56		13C4-PFOS	6.281	48986	1.9025	ng/ml			
507.0 -> 99.0			2903.65	52.7								
13C8-PFOSA	7.751	47649	61888.32		13C4-PFOS	6.281	48986	1.5384	ng/ml			
13C9-PFNA	5.664	116065	7049.57		13C5-PFNA	5.664	168337	1.0111	ng/ml			
13C5-PFPeA	2.928	334970	12594.82		13C2-PFHxA	3.829	220820	4.1075	ng/ml			
13C2-PFDoA	7.011	87956	20660.09		13C2-PFDA	6.140	134173	0.9943	ng/ml			
13C4-PFHpA	4.549	217073	15452.57		13C2-PFHxA	3.829	220820	2.1327	ng/ml			
13C4-PFBA	1.707	516781	140123.62		13C3-PFBA	1.710	298977	7.9613	ng/ml			
13C3-PFHxS	5.234	47103	2660.00		18O2-PFHxS	5.233	57178	2.0172	ng/ml			
402.0 -> 99.0			5438.46	50.5								
13C3-PFBS	3.749	63979	2478.02		18O2-PFHxS	5.233	57178	2.0703	ng/ml			
301.9 -> 98.9			7113.70	34.5								
13C3-HFPODA	4.103	197410	46855.78		13C2-PFHxA	3.829	220820	7.7560	ng/ml			
287.0 -> 185.0			9436.70	45.6								
13C2-PFTeDA	7.811	68418	9748.92		13C2-PFDA	6.140	134173	0.8983	ng/ml			
D9-NEtFOSE	9.394	102747	9035.99		13C4-PFOS	6.281	48986	7.9771	ng/ml			
D3-NMeFOSA	9.201	6183	1147.22		13C4-PFOS	6.281	48986	0.6223	ng/ml			
D3-NMeFOSAA	6.203	148517	19530.33		13C4-PFOS	6.281	48986	4.6801	ng/ml			
D5-NEtFOSA	9.546	4654	2599.77		13C4-PFOS	6.281	48986	0.4491	ng/ml			
D5-NEtFOSAA	6.406	77554	15910.11		13C4-PFOS	6.281	48986	4.8297	ng/ml			
D7-NMeFOSE	9.057	116974	22080.70		13C4-PFOS	6.281	48986	9.7177	ng/ml			

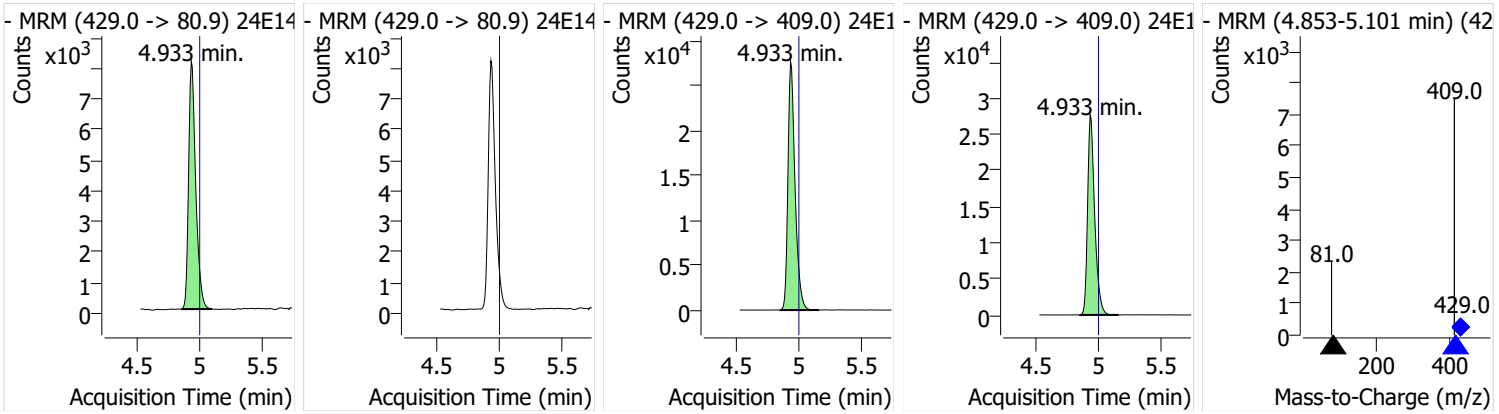
11Cl-PF3OUdS



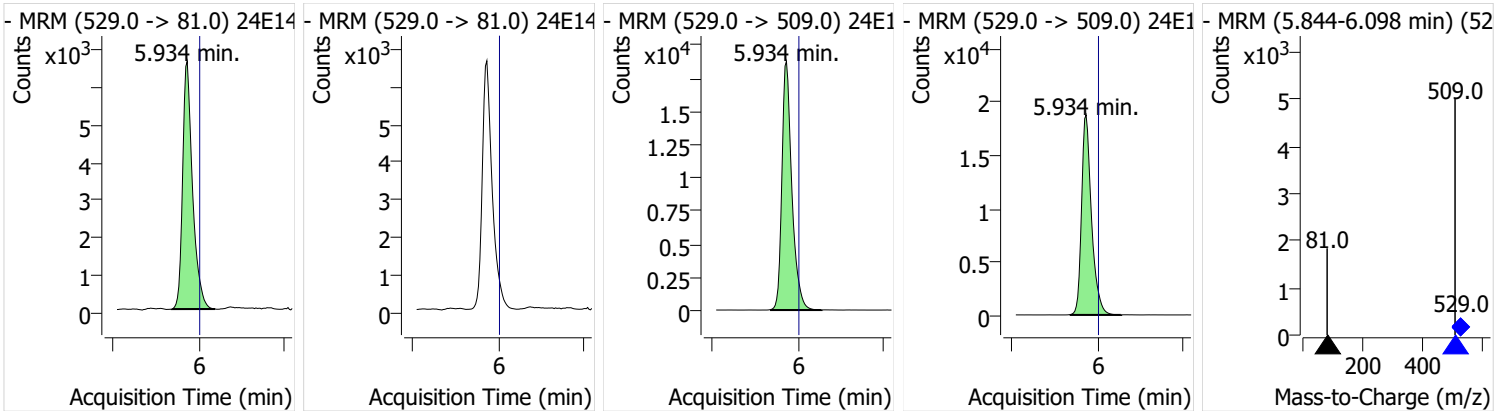
13C2-4:2FTS - ISTD



13C2-6:2FTS - ISTD



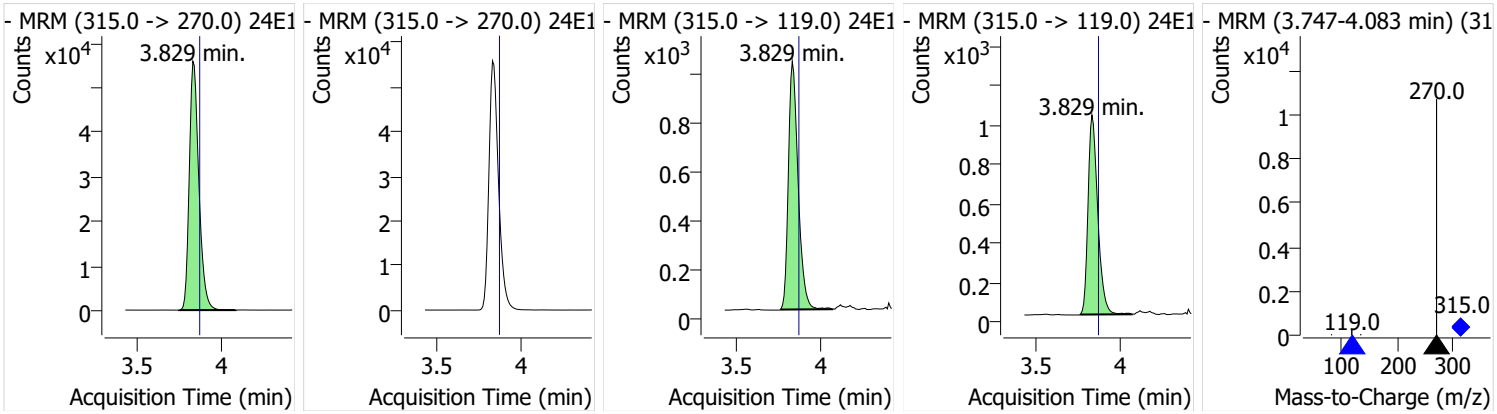
13C2-8:2FTS - ISTD



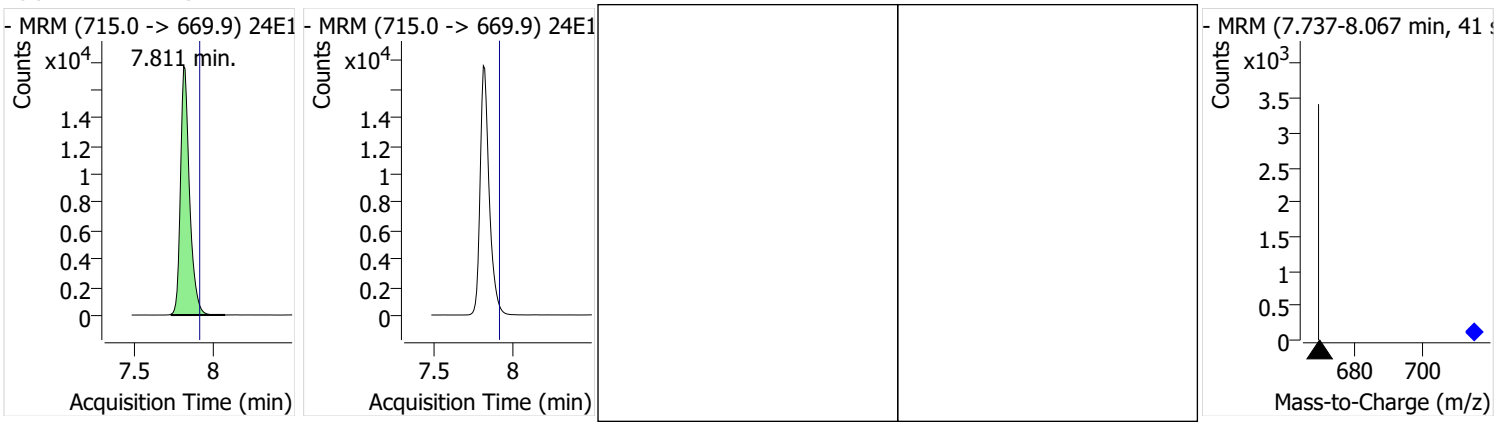
13C2-PFDA

13C2-PFDoA - ISTD

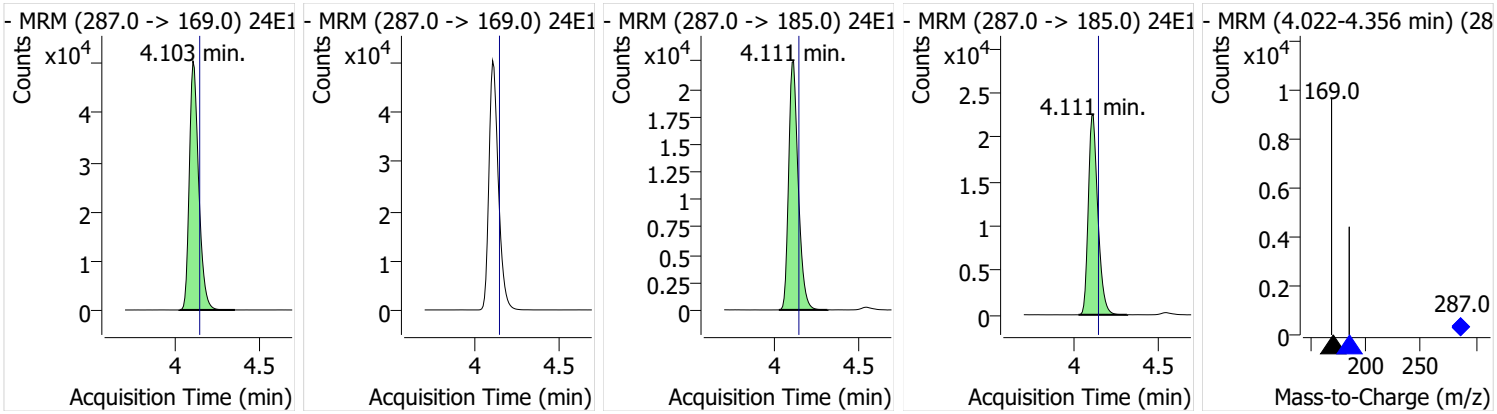
13C2-PFHxA



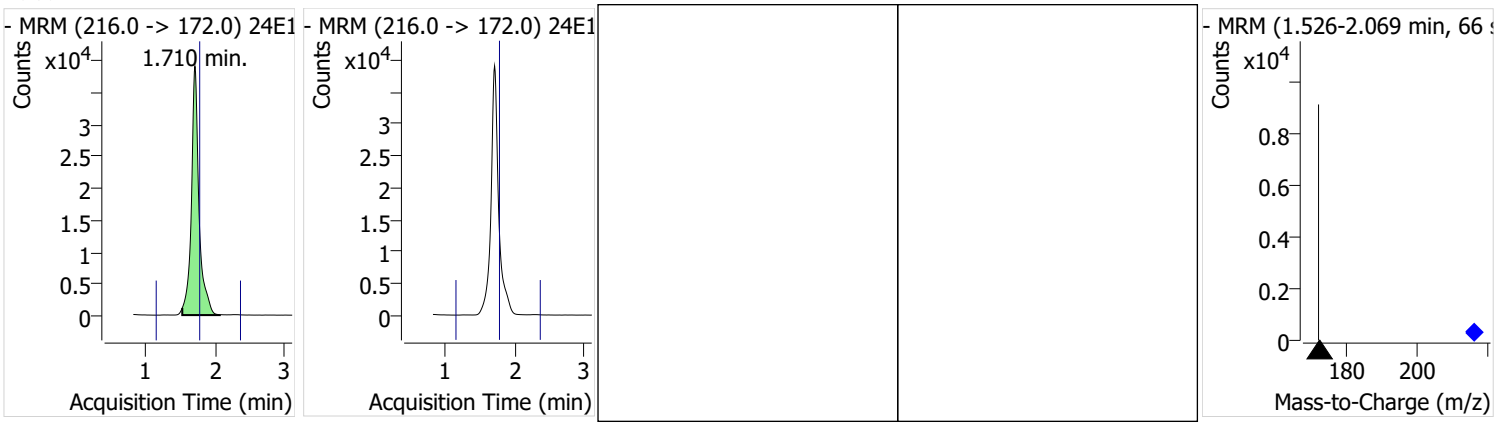
13C2-PFTeDA - ISTD



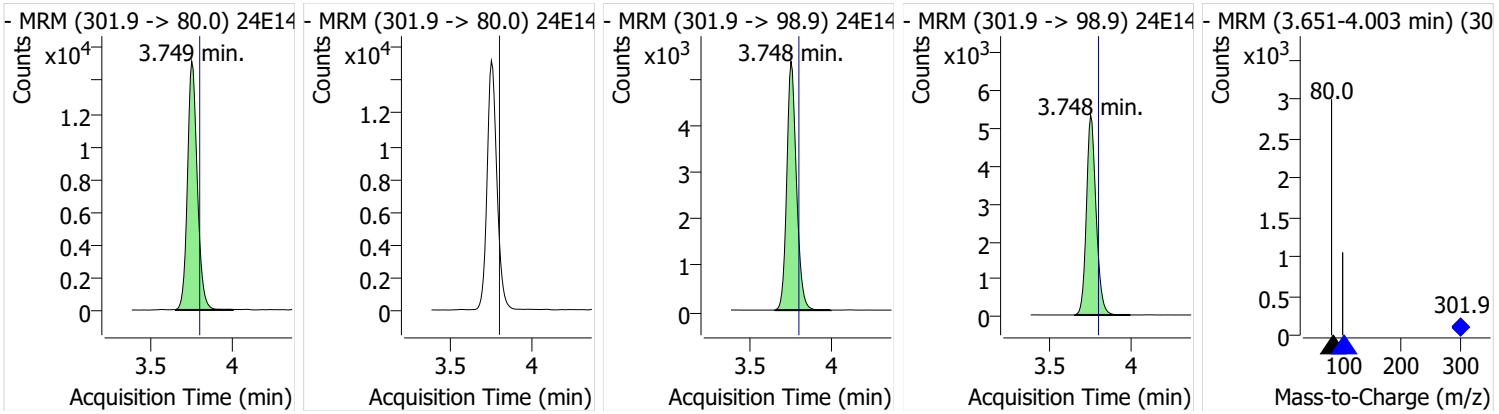
13C3-HFPODA - ISTD



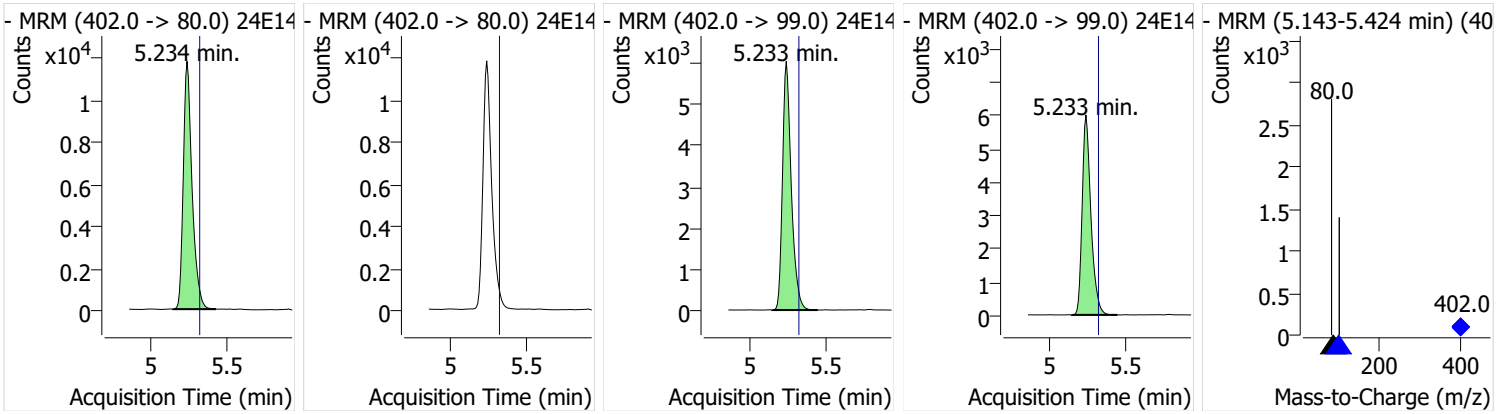
13C3-PFBA



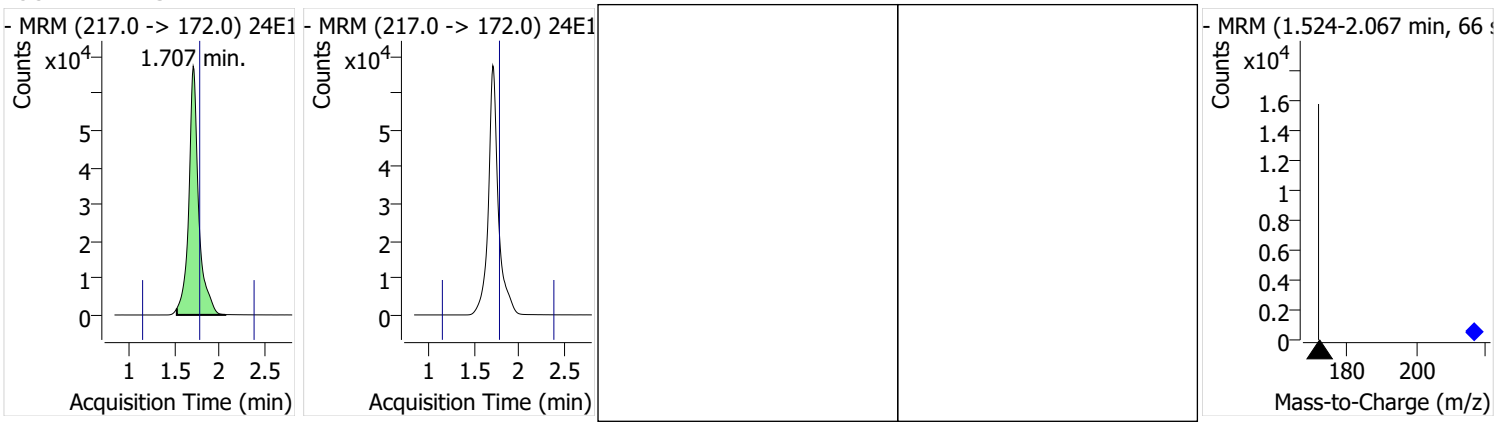
13C3-PFBS - ISTD



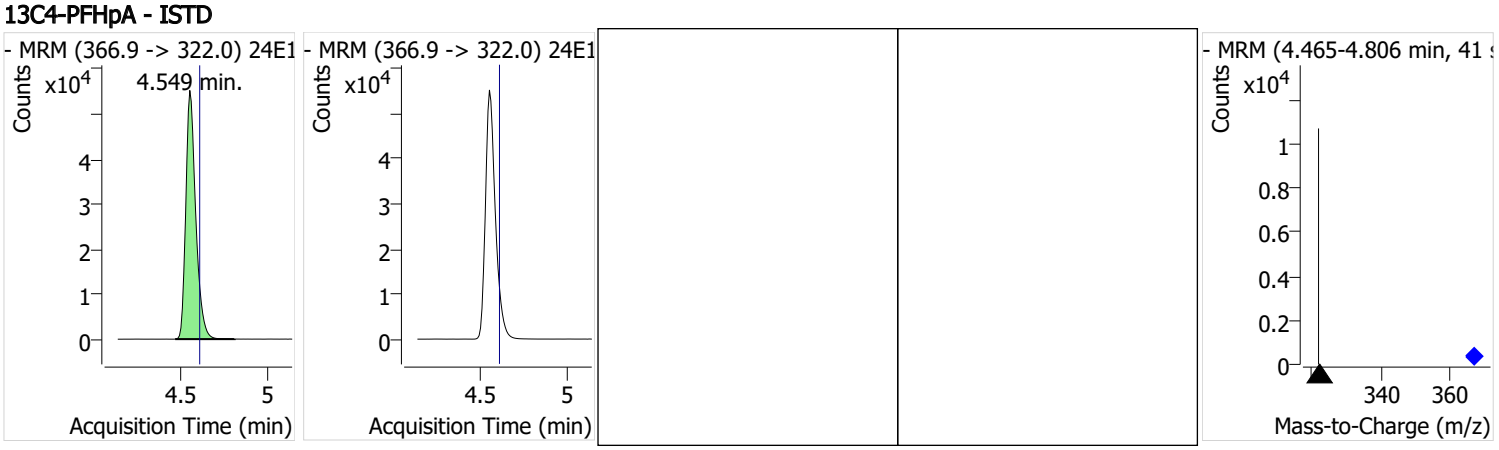
13C3-PFHxS - ISTD



13C4-PFBA - ISTD

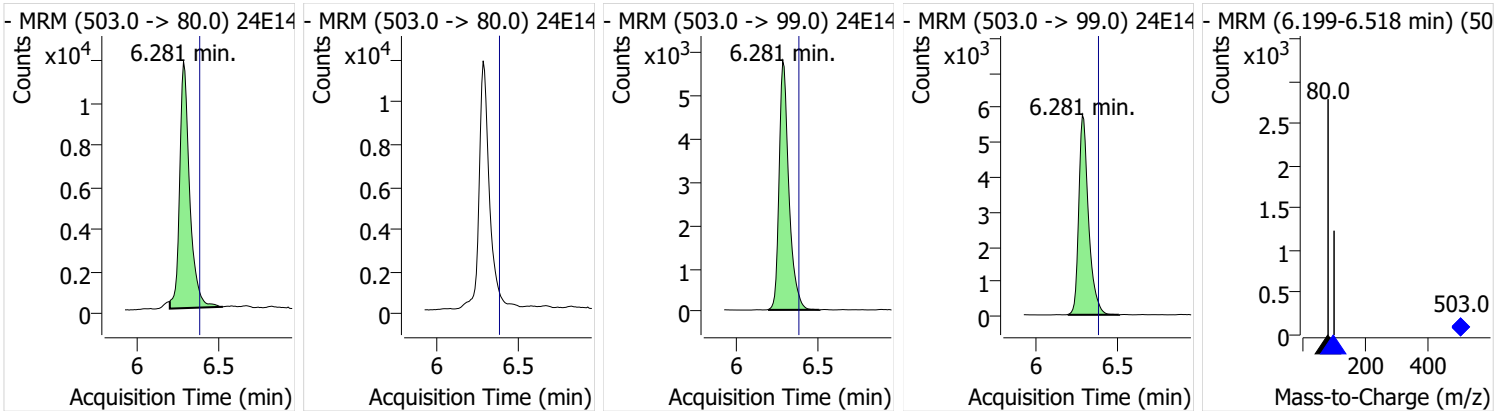


13C4-PFHpA - ISTD

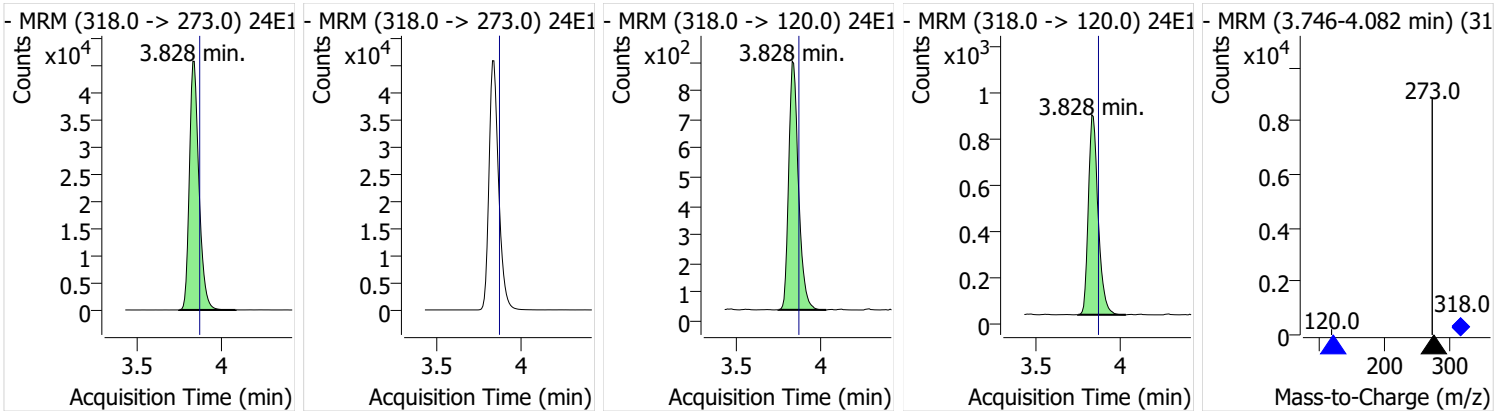


13C4-PFOA

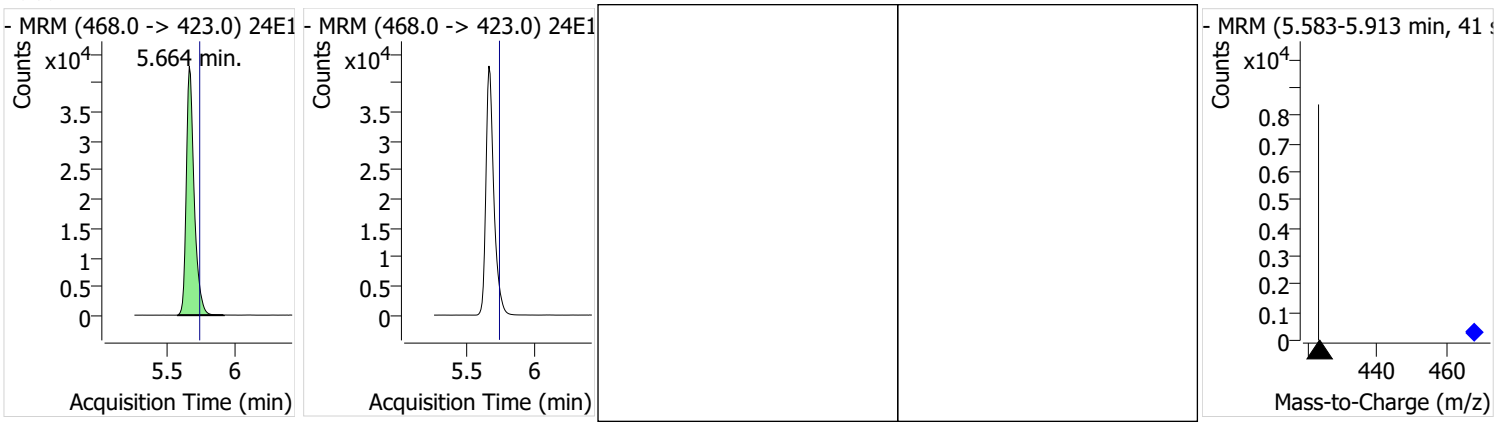
13C4-PFOS



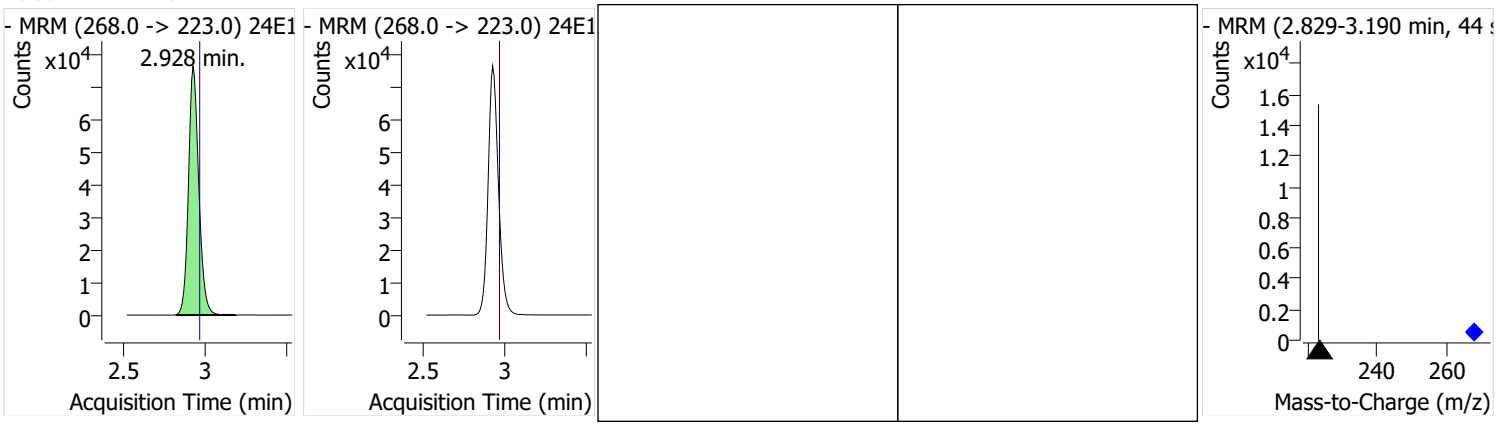
13C5-PFHxA - ISTD



13C5-PFNA

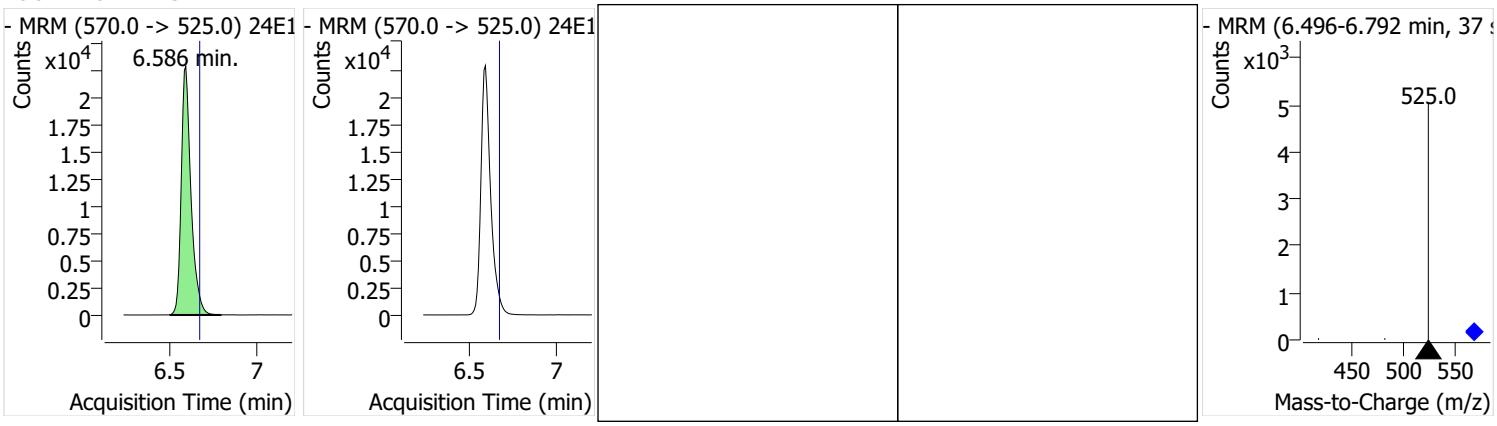


13C5-PFPeA - ISTD



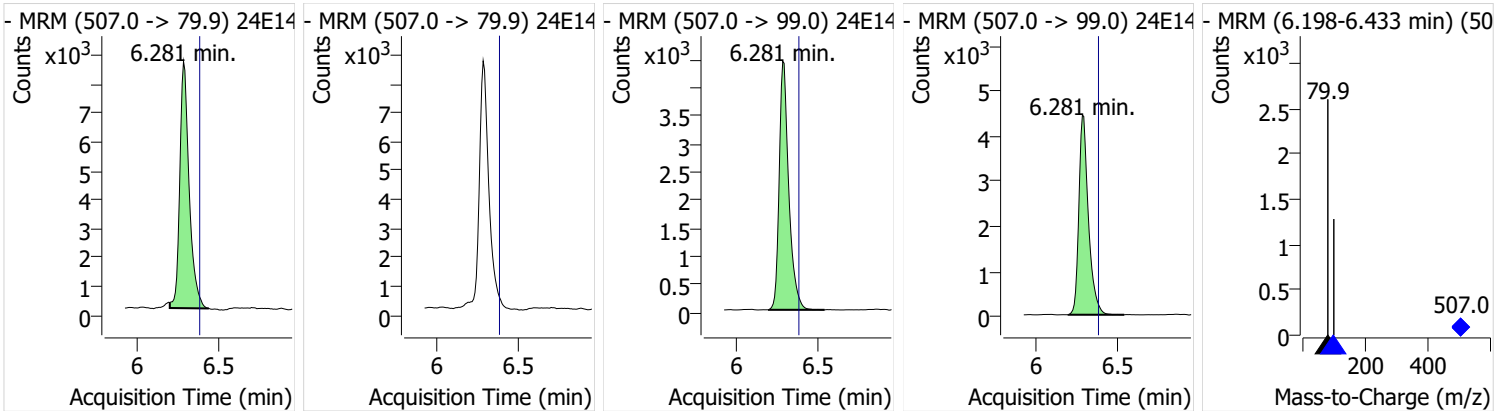
13C6-PFDA - ISTD

13C7-PFUnA - ISTD

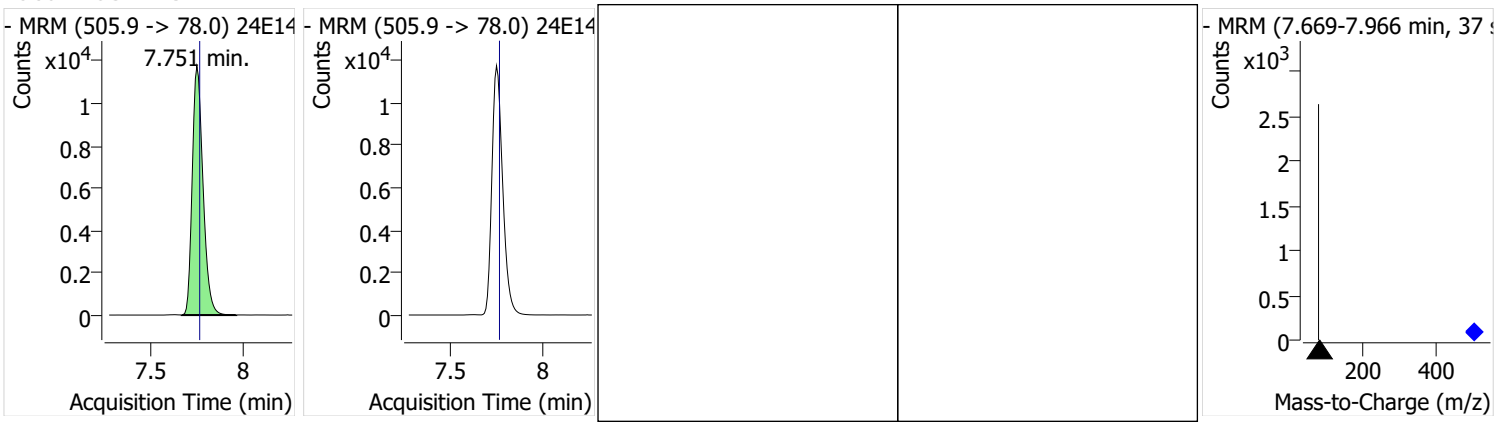


13C8-PFOA - ISTD

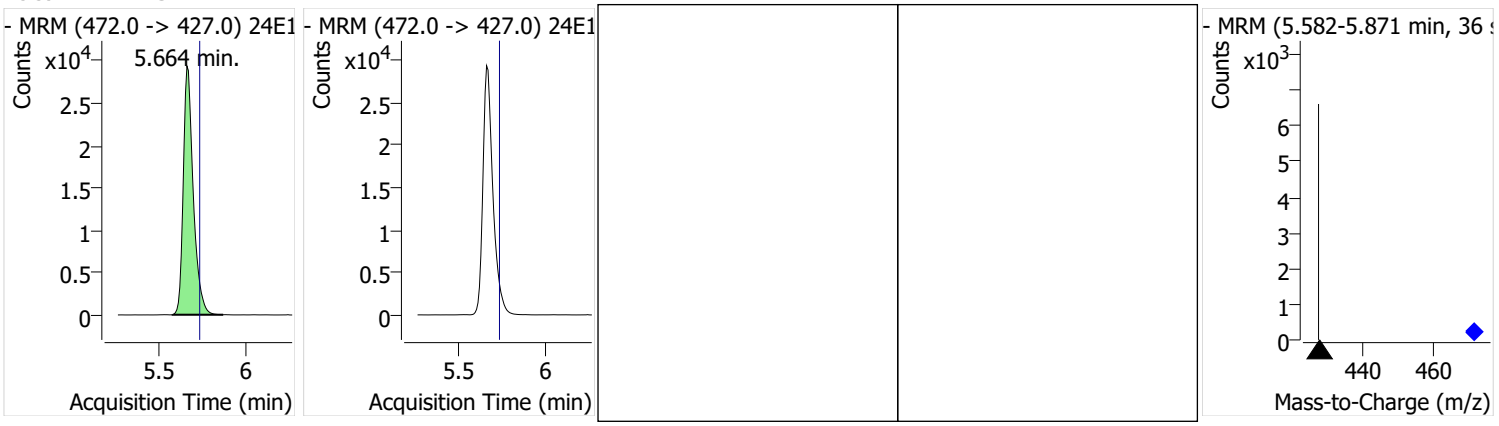
13C8-PFOS - ISTD



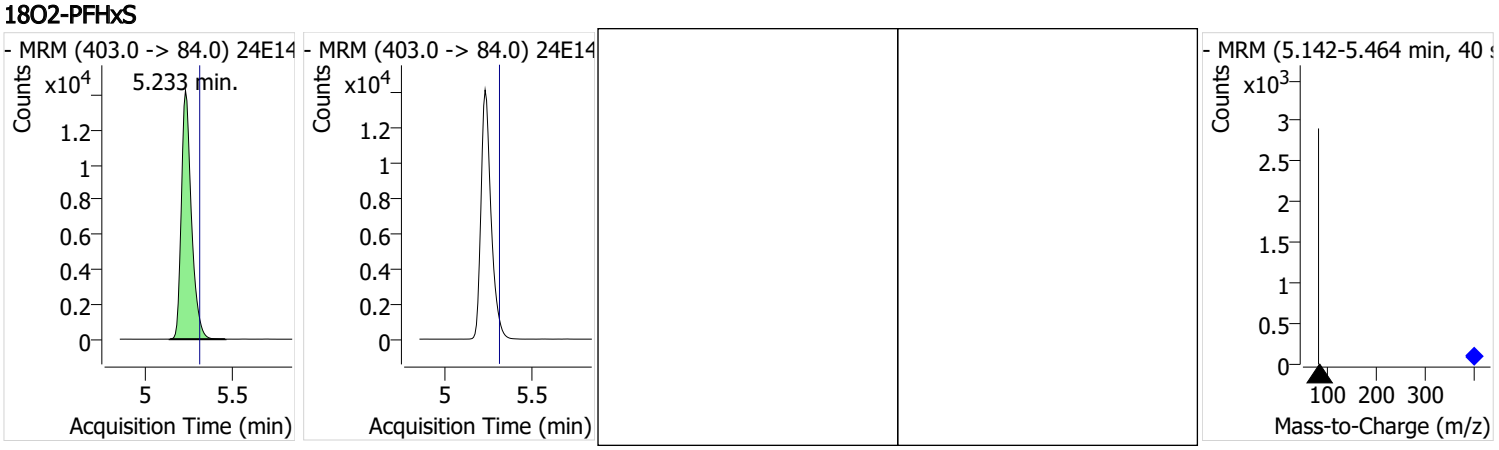
13C8-PFOSA - ISTD



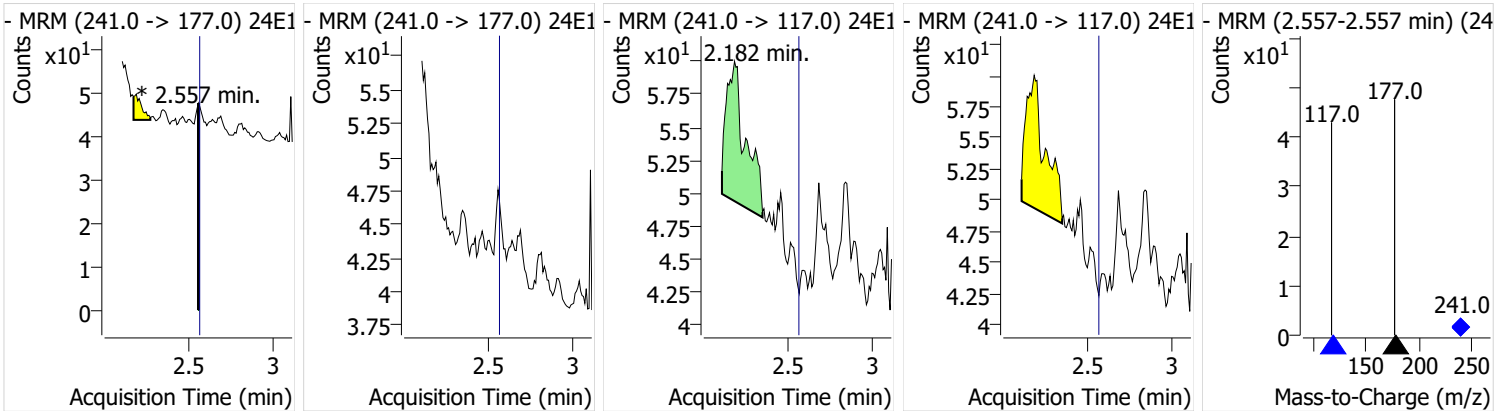
13C9-PFNA - ISTD



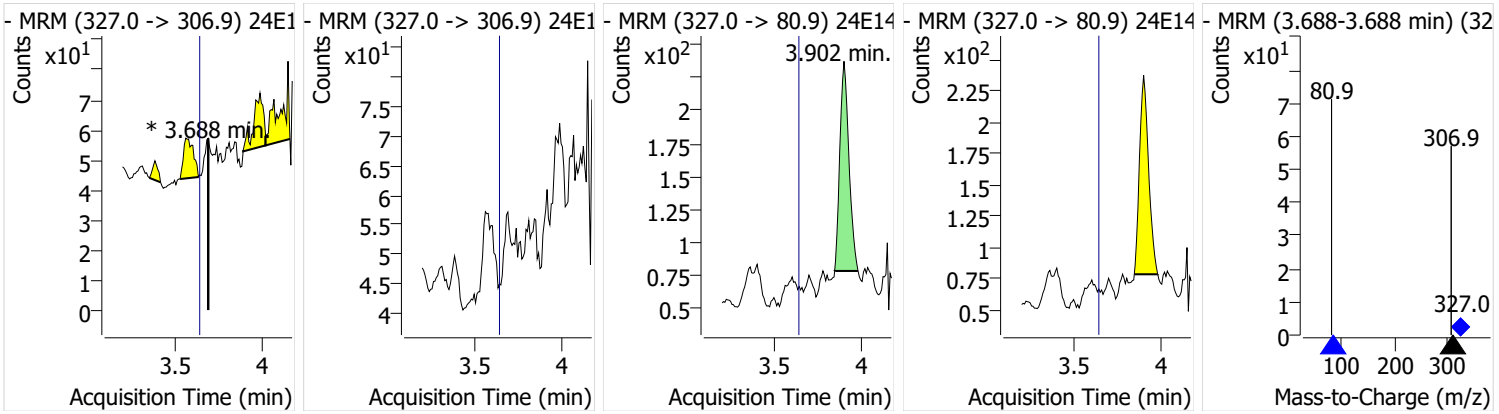
18O2-PFHxS



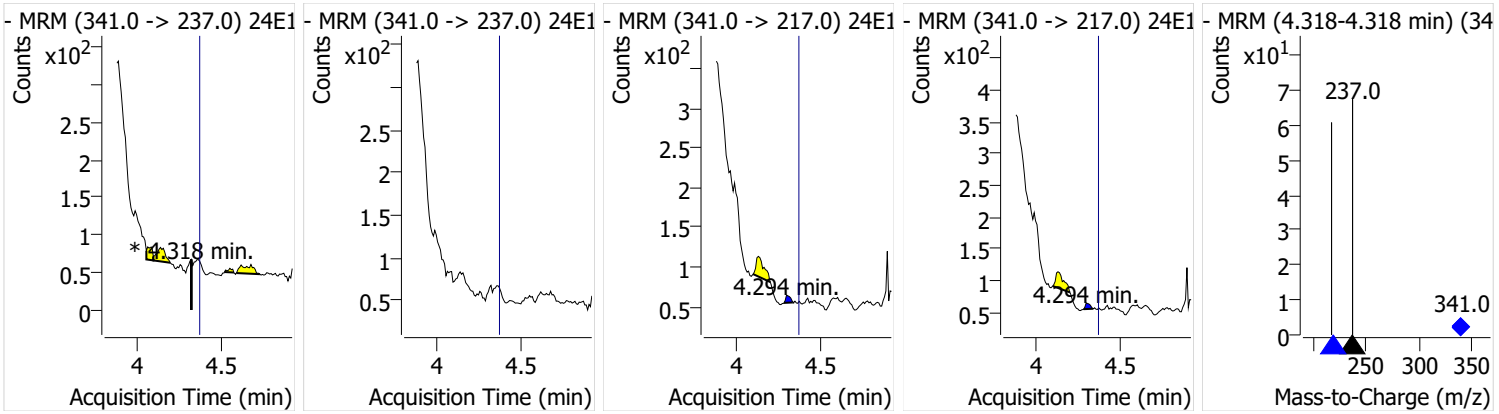
3:3FTCA



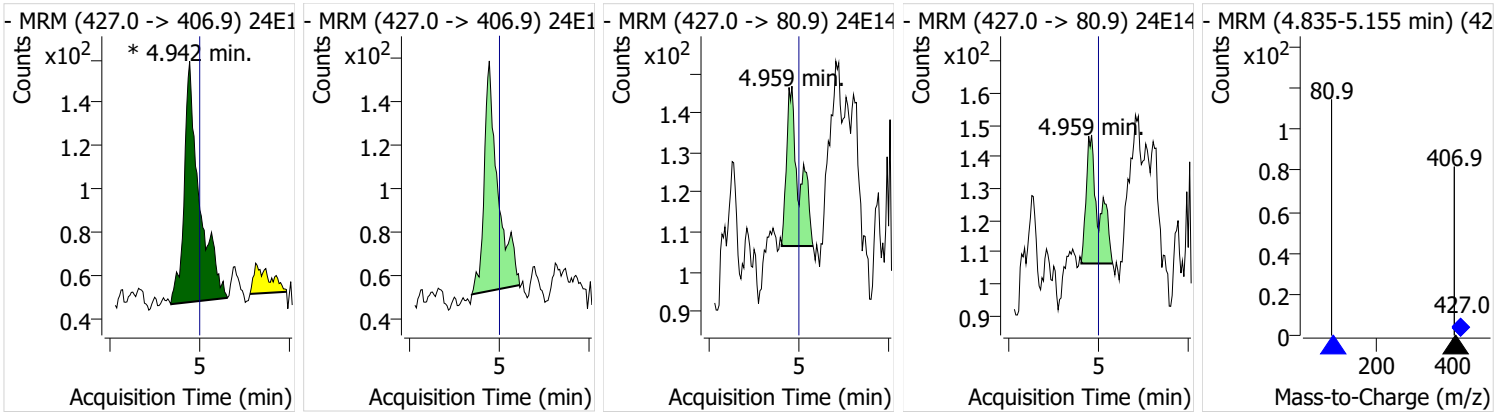
4:2FTS



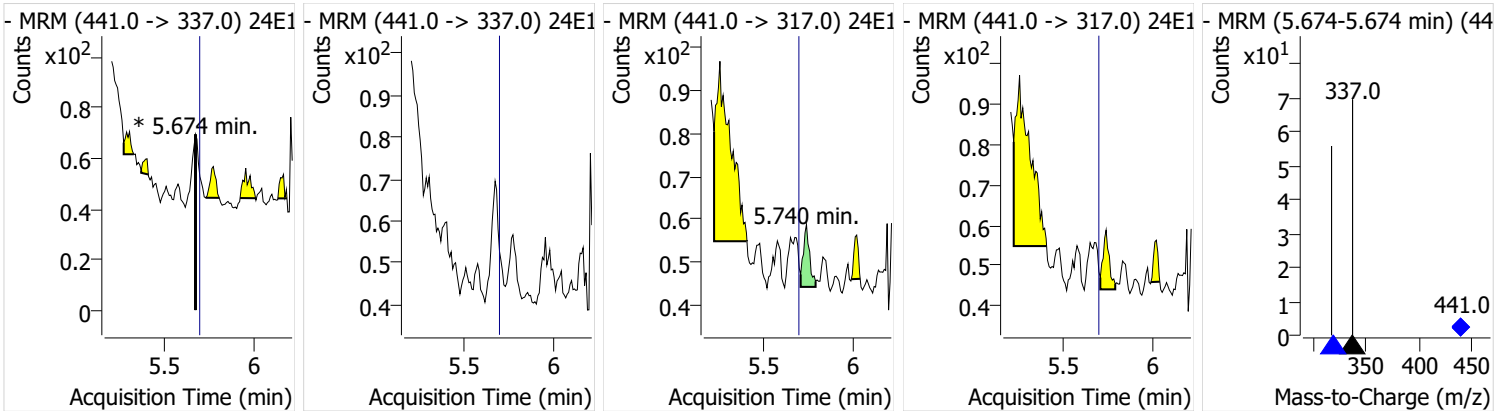
5:3FTCA



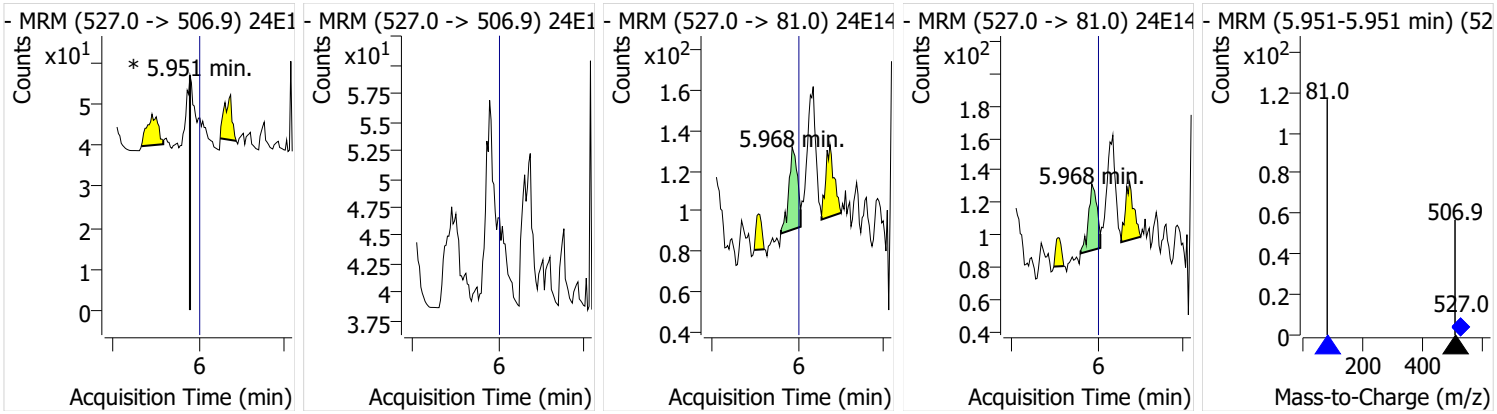
6:2FTS



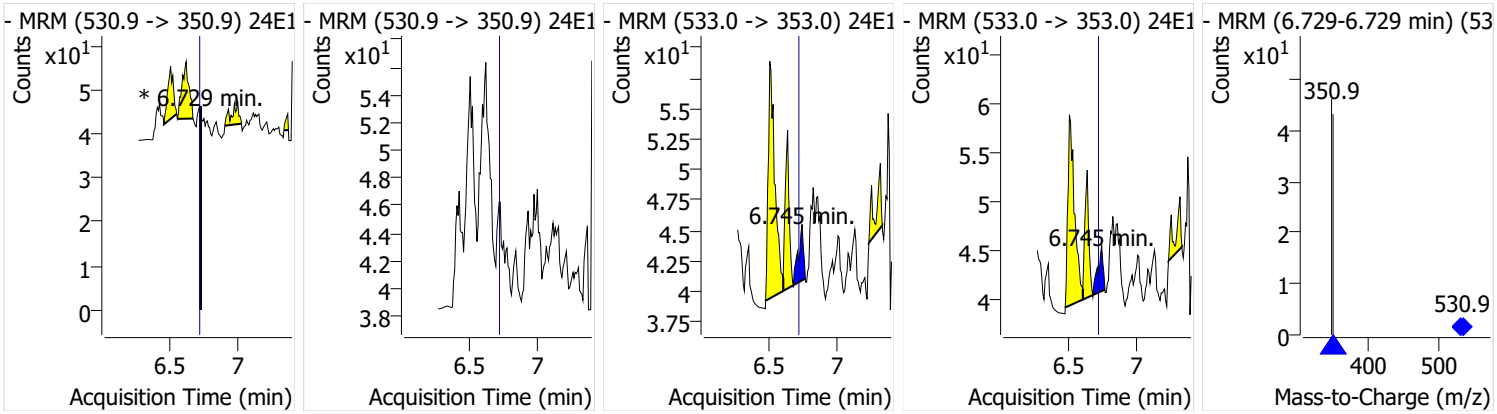
7:3FTCA



8:2FTS



9Cl-PF3ONS



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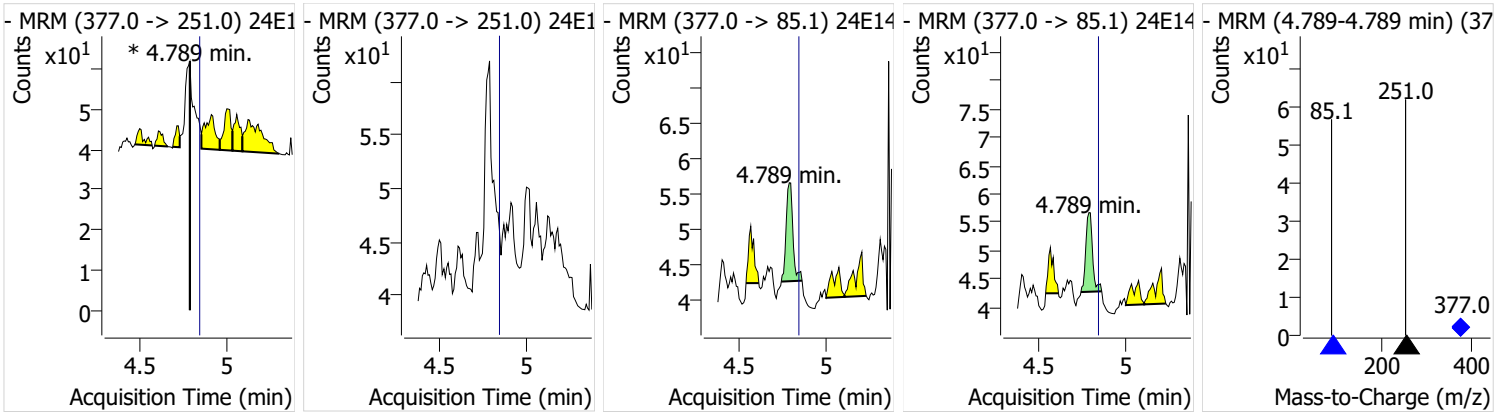
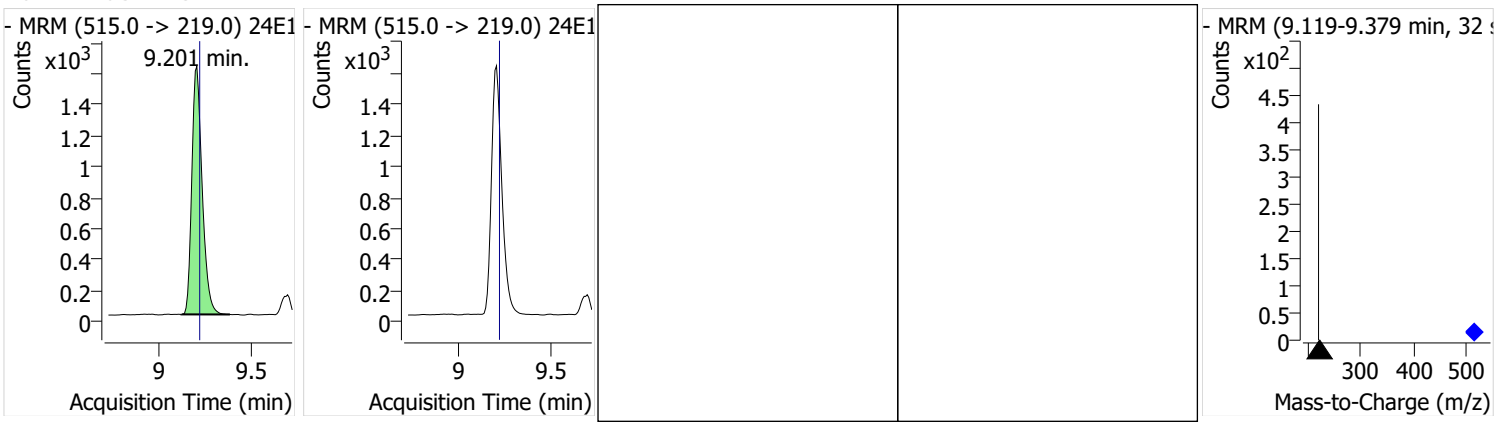


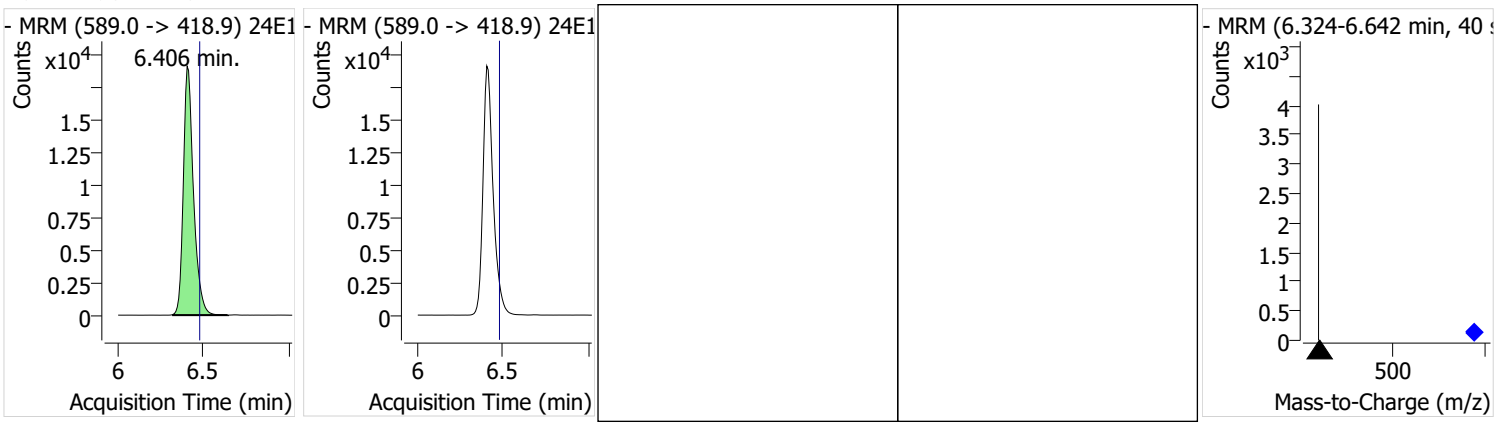
D3-NMeFOSA - ISTD



D3-NMeFOSAA - ISTD

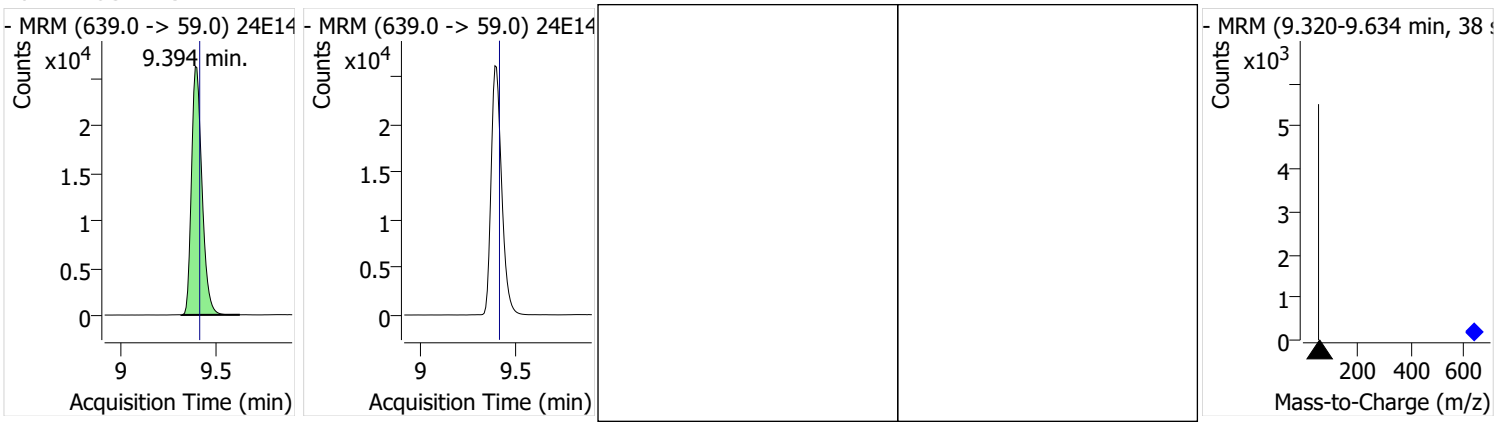
D5-NEtFOSA - ISTD

D5-NEtFOSAA - ISTD

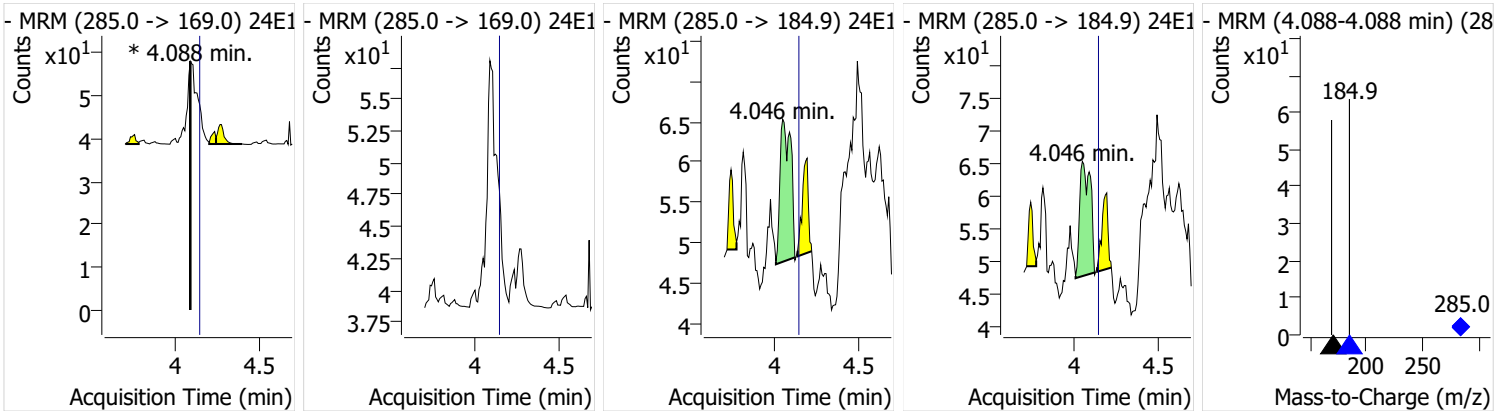


D7-NMeFOSE - ISTD

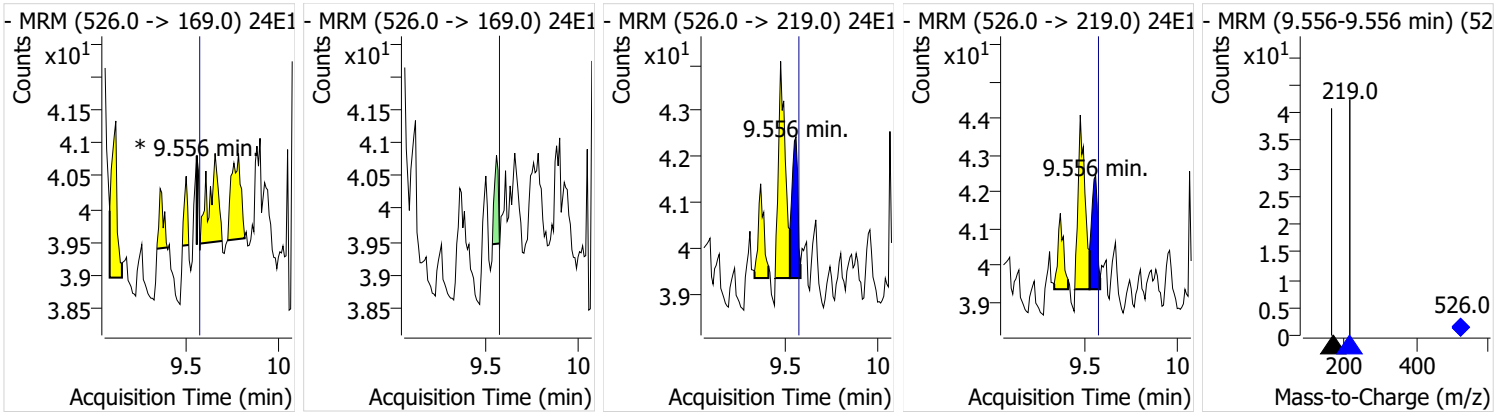
D9-NEtFOSE - ISTD



HFPO-DA



NEtFOSA



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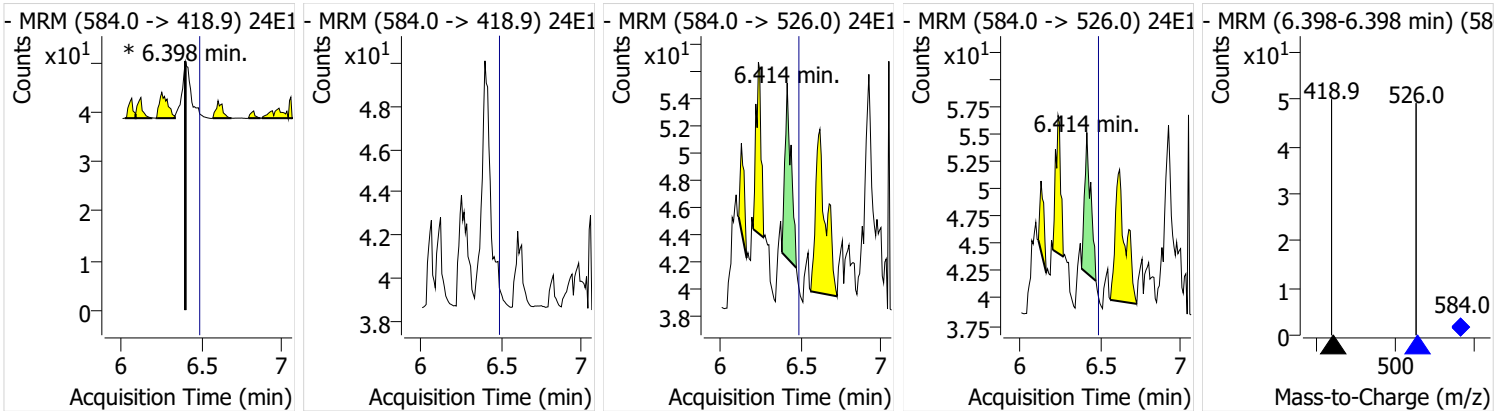
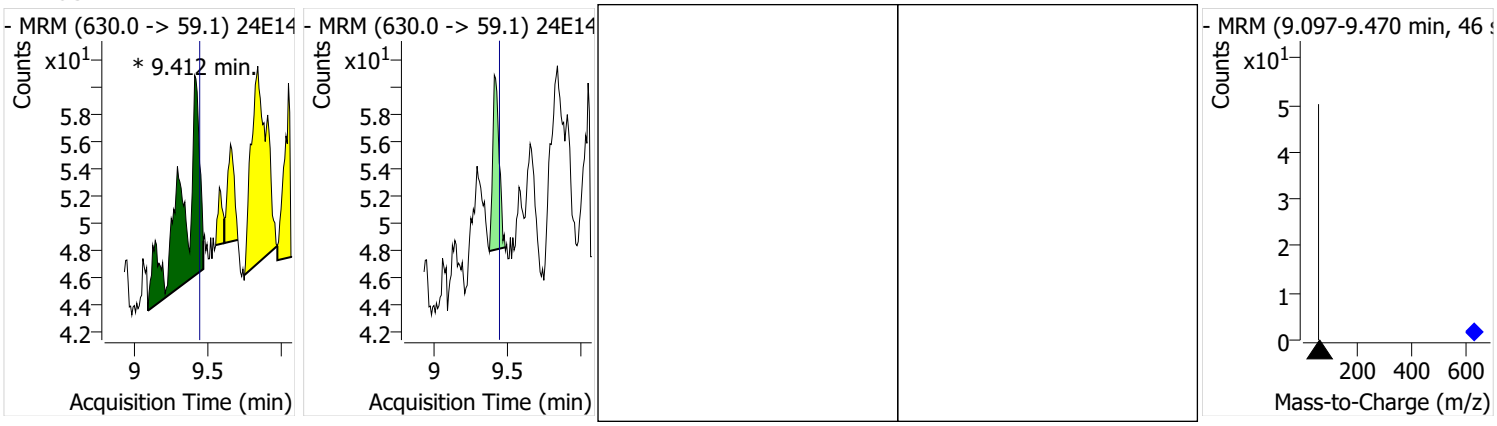
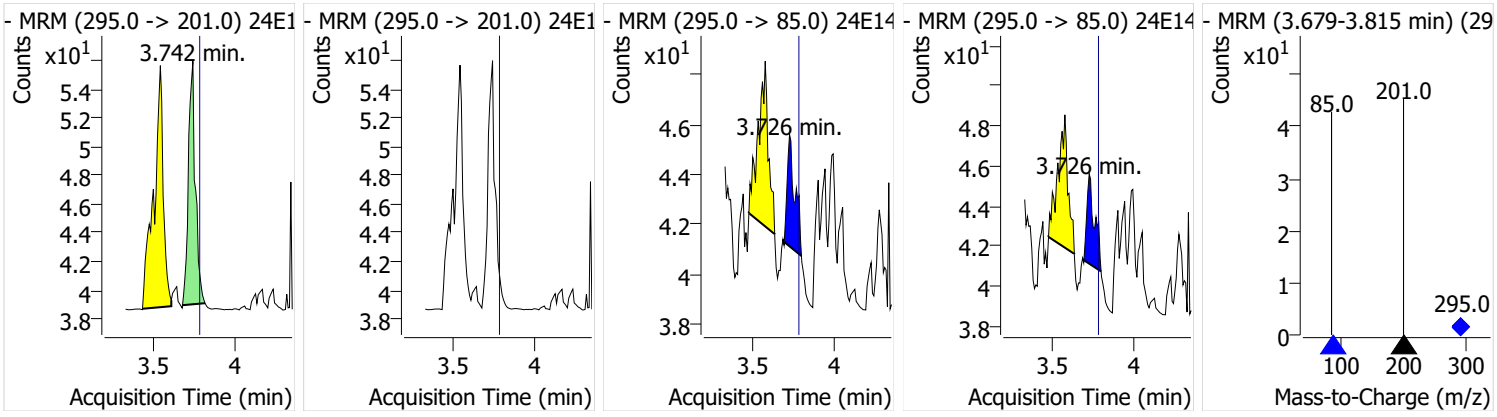


NEtFOSE



NFDHA



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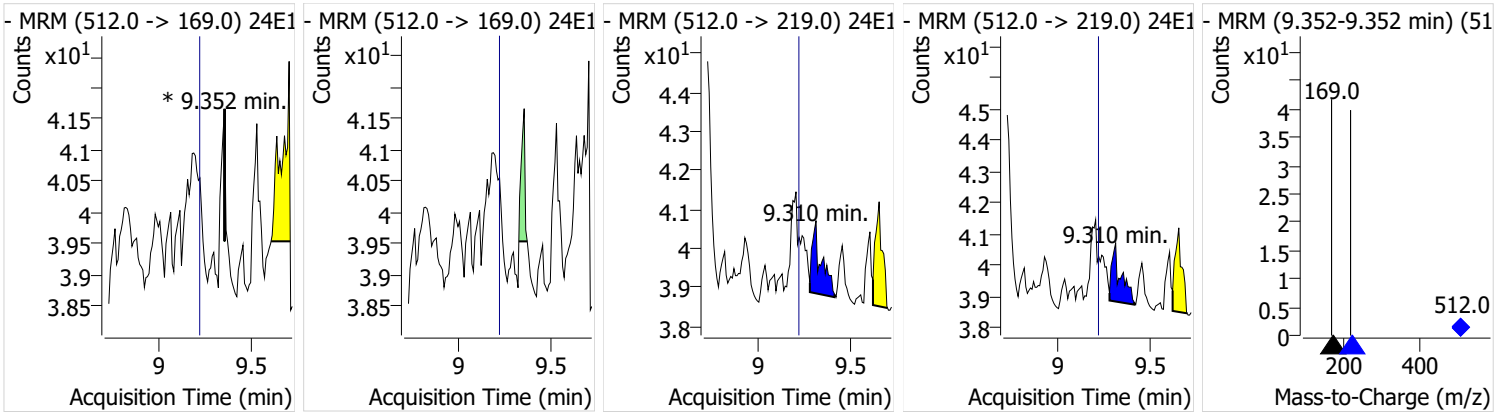

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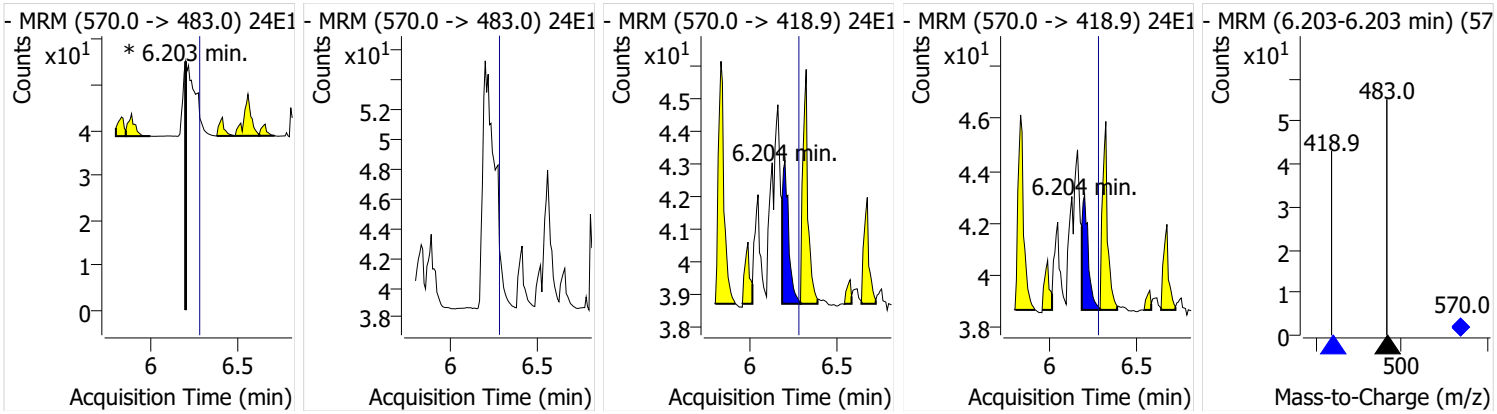
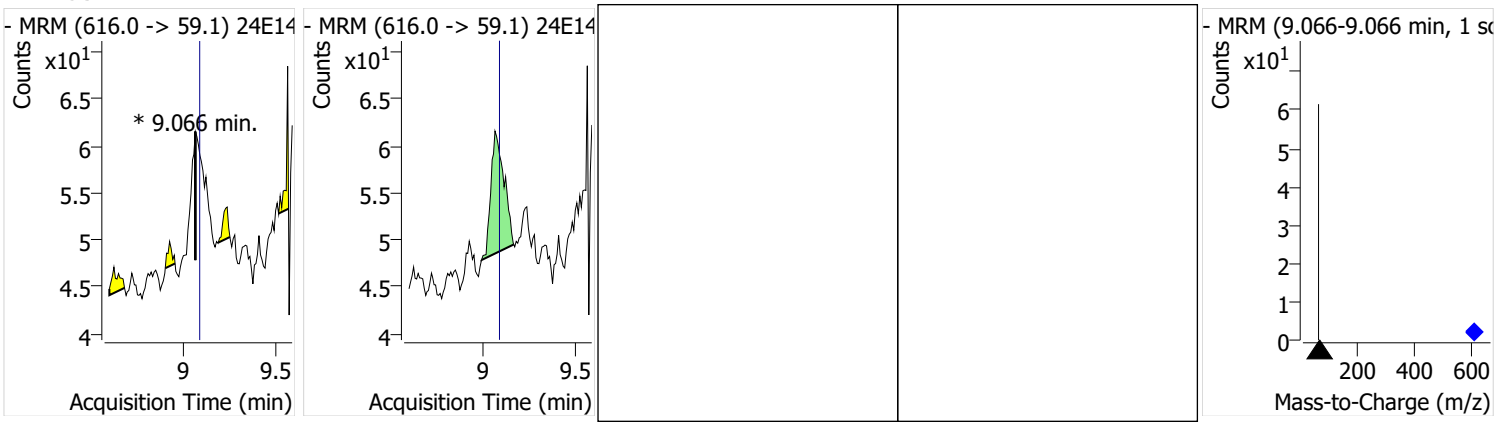
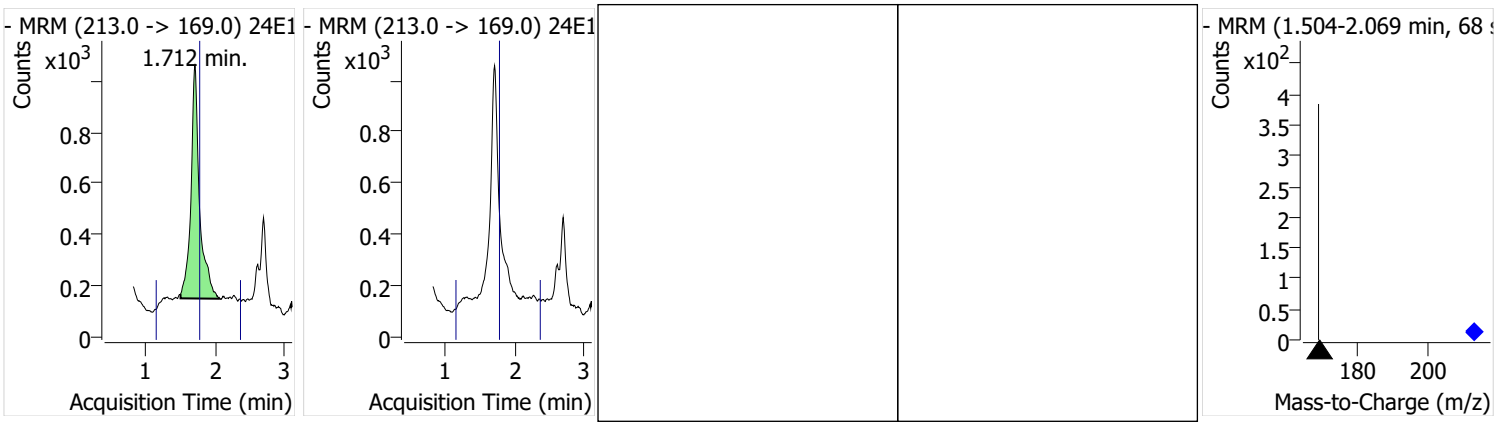


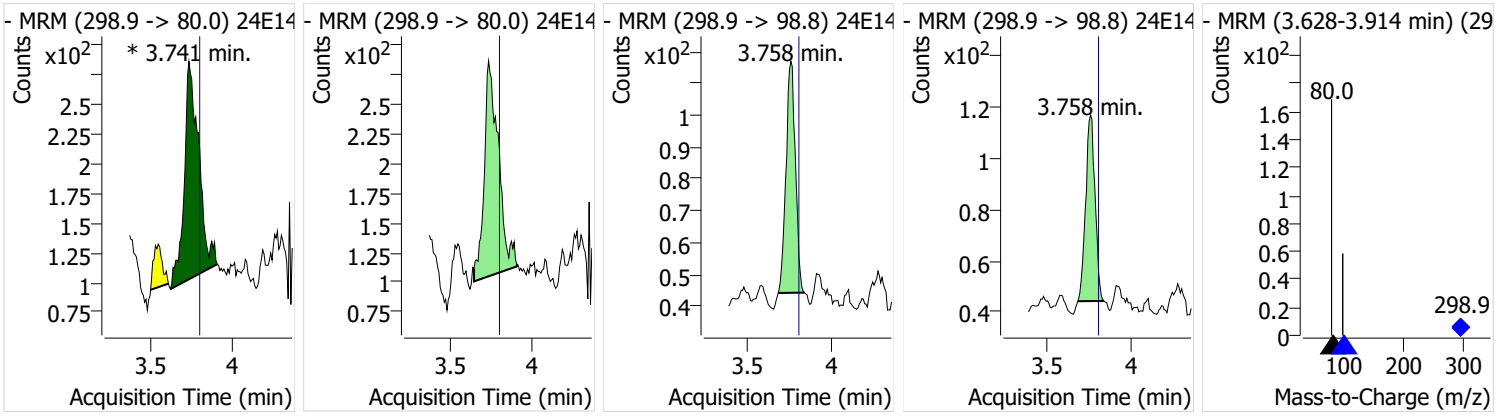
NMeFOSE



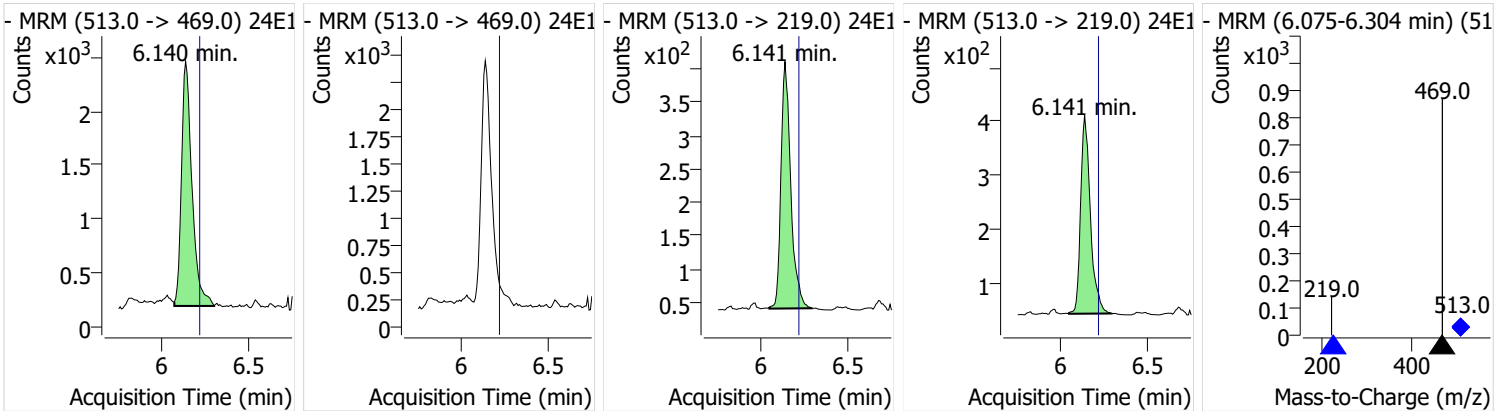
PFBA



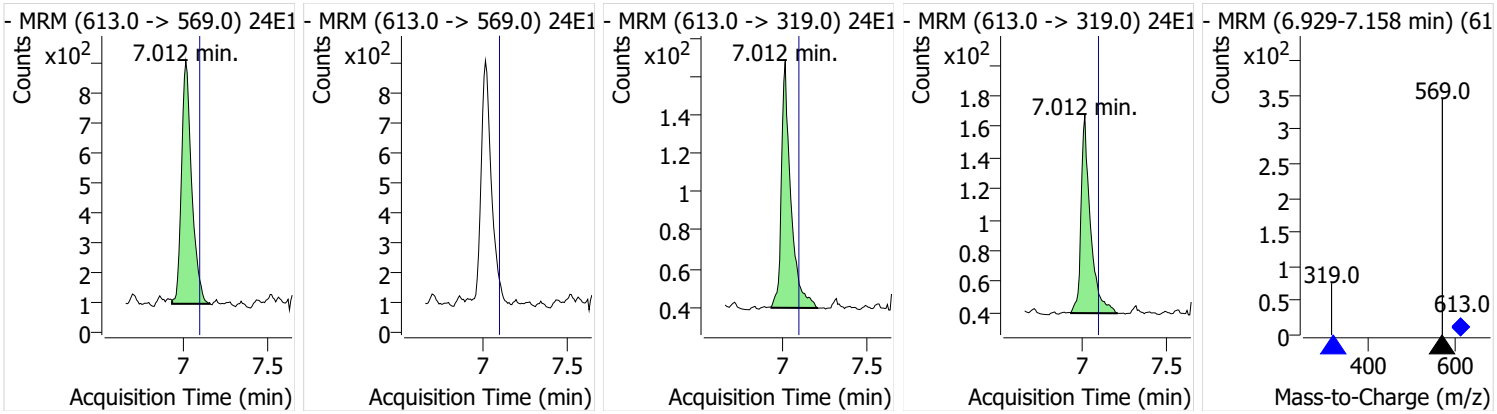
PFBS



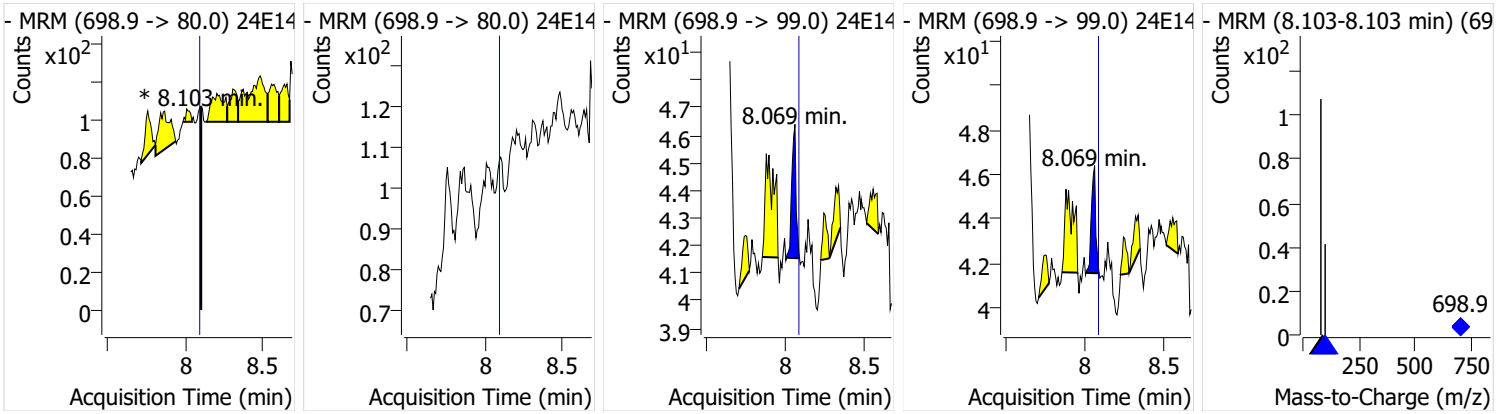
PFDA



PFDoA



PFDoS



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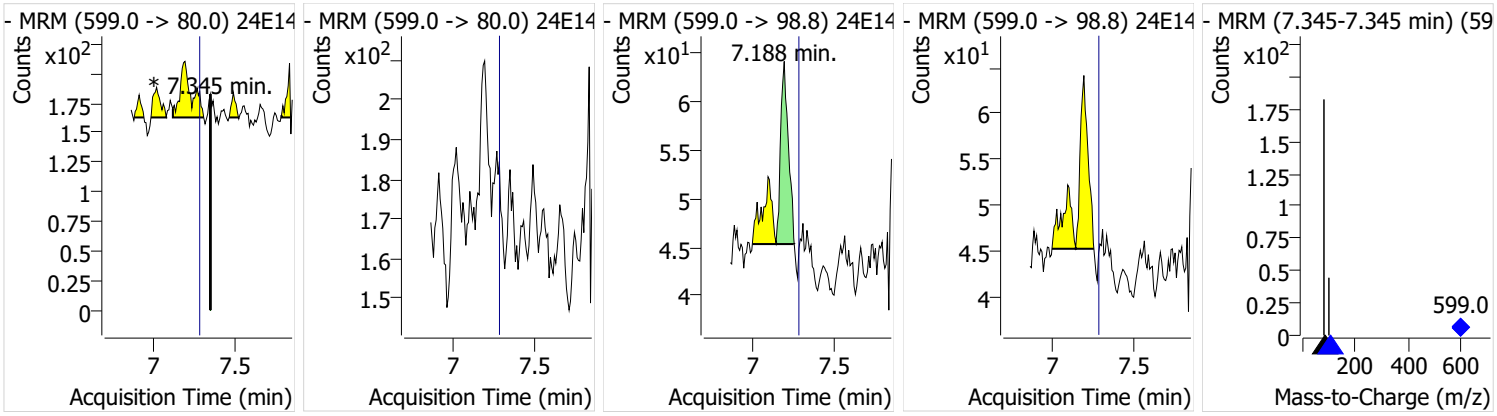

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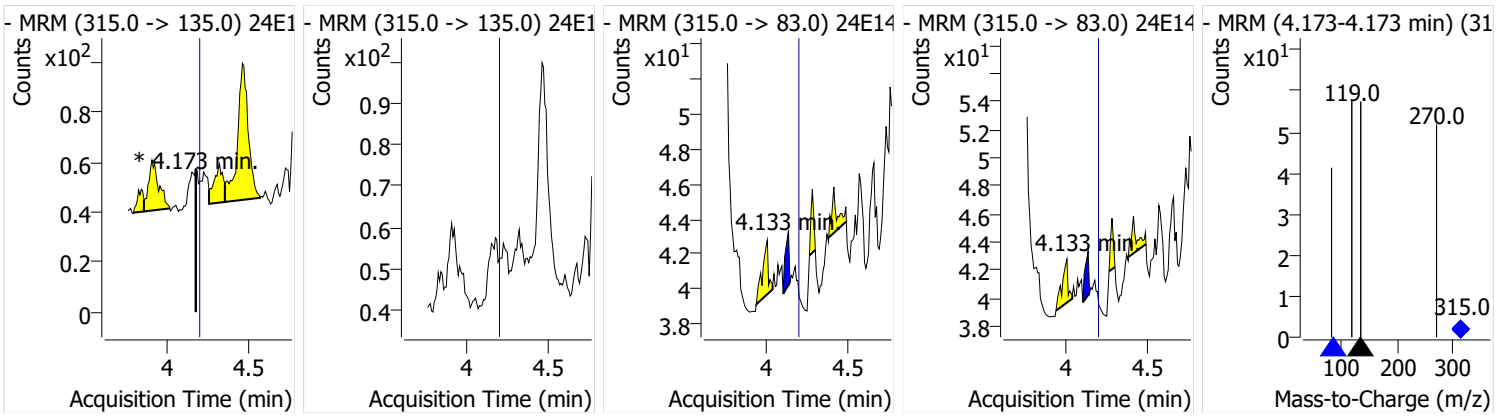
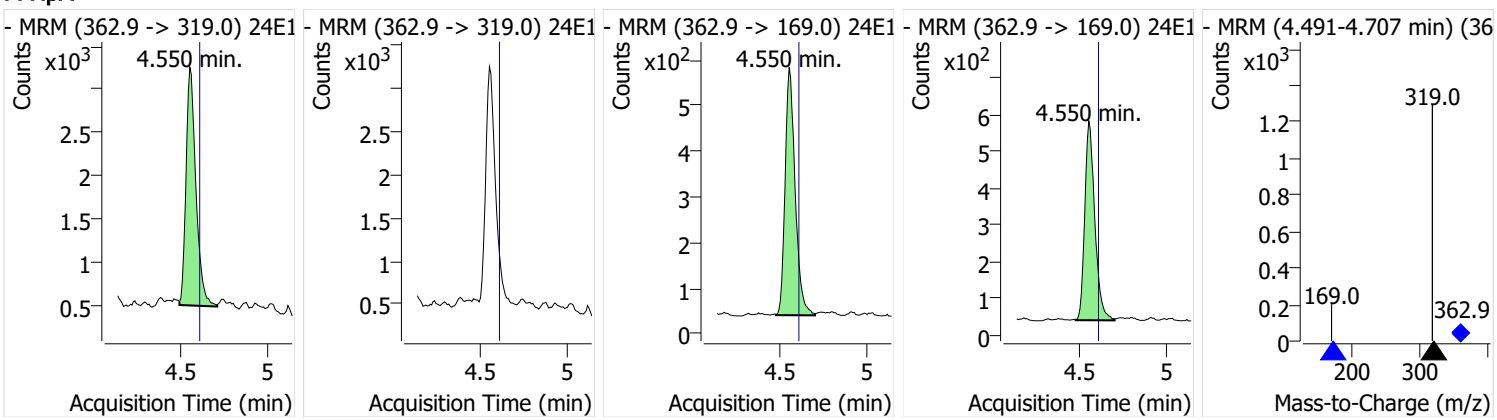


PFHpA



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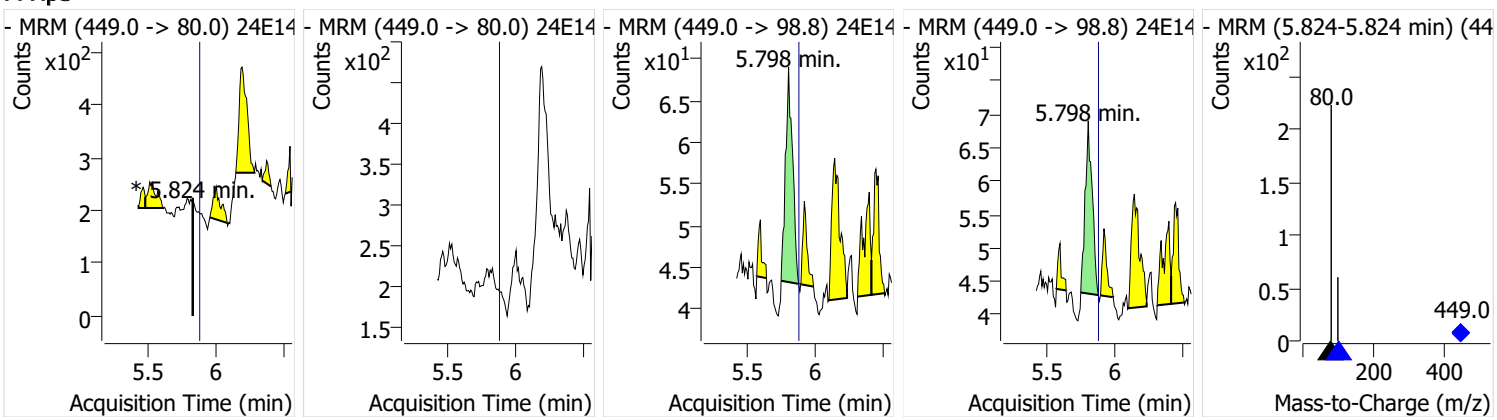
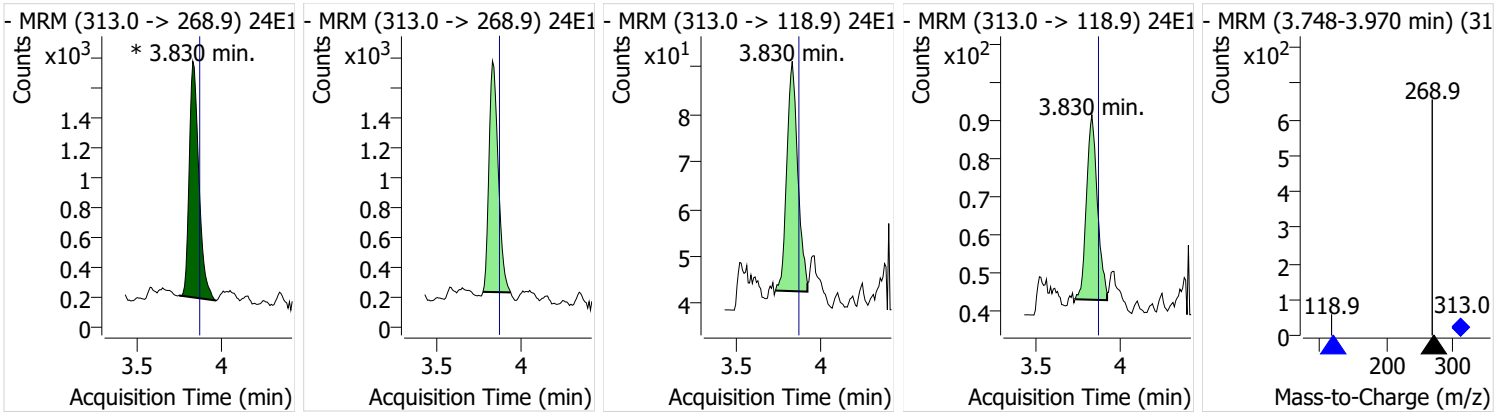
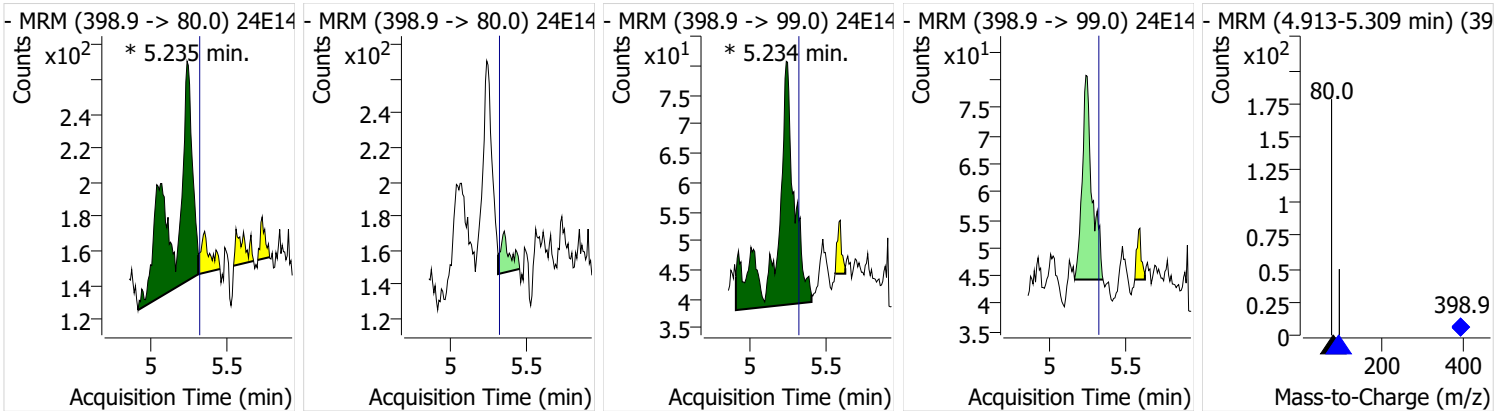


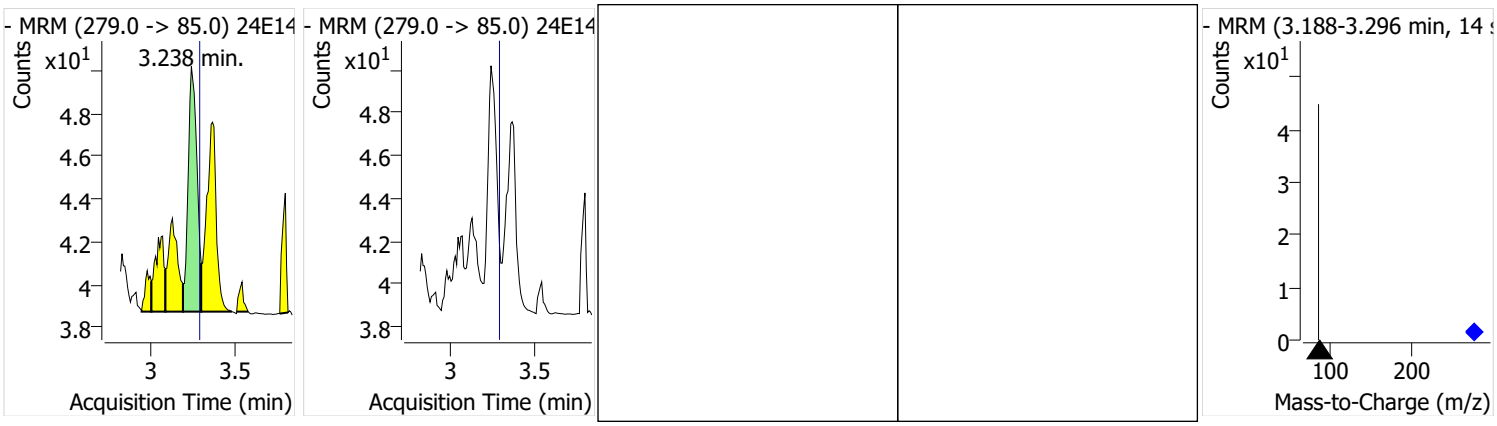
PFHxA



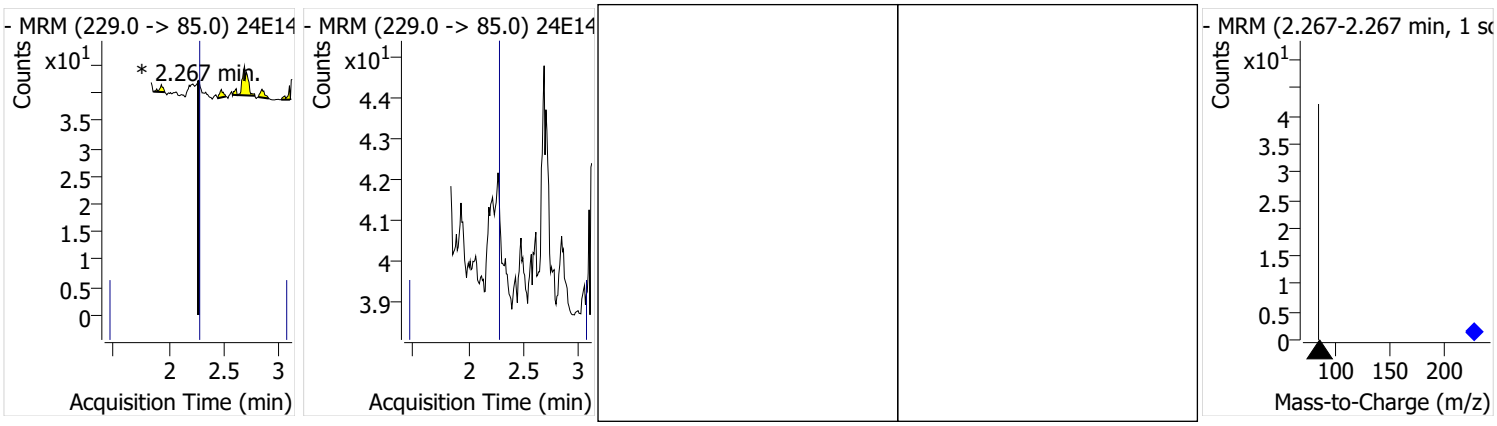
PFHxS



PFMBA



PFMPA



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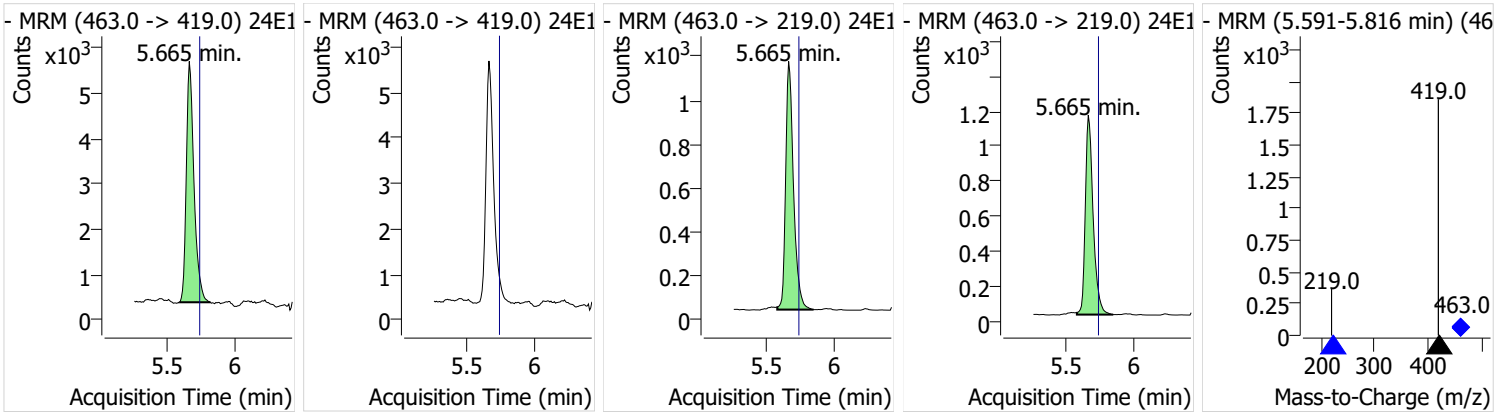
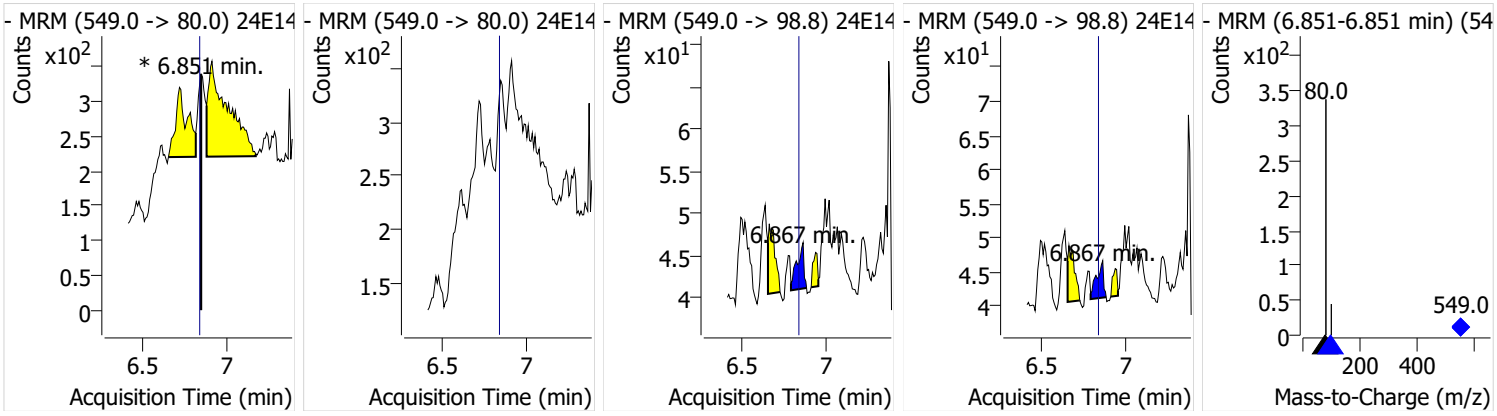
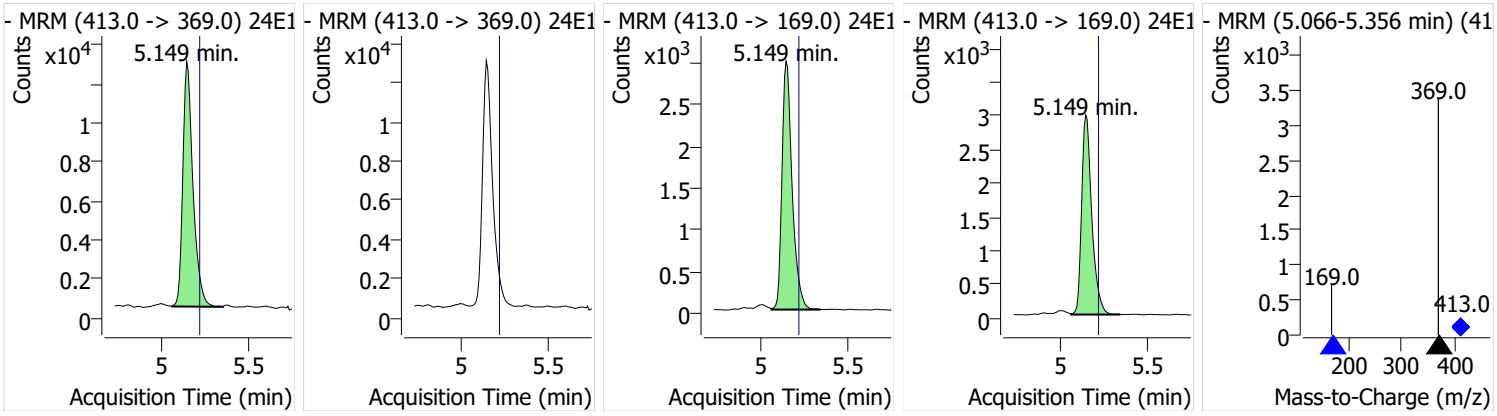


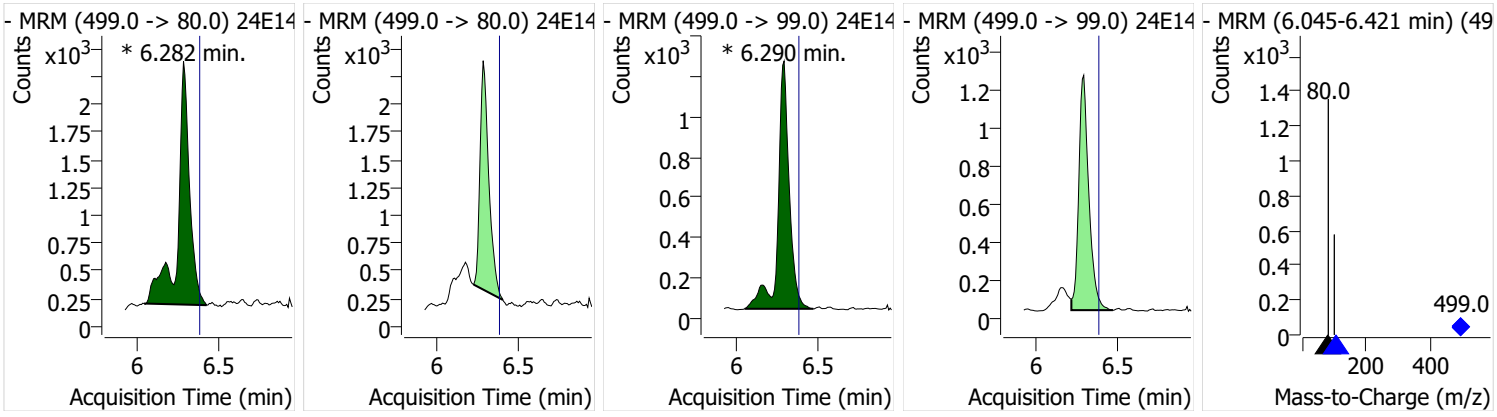
PFNS



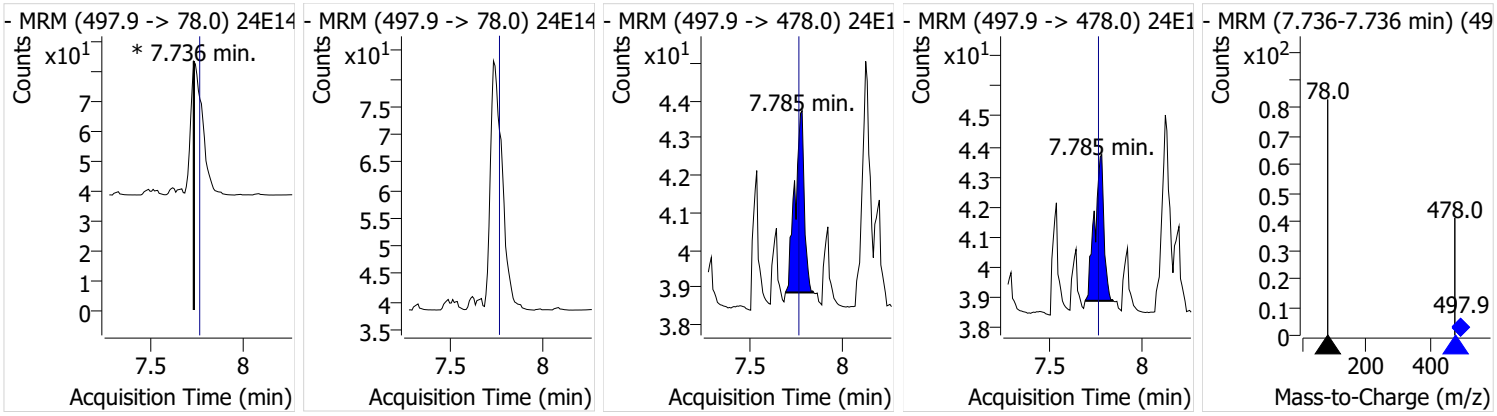
PFOA



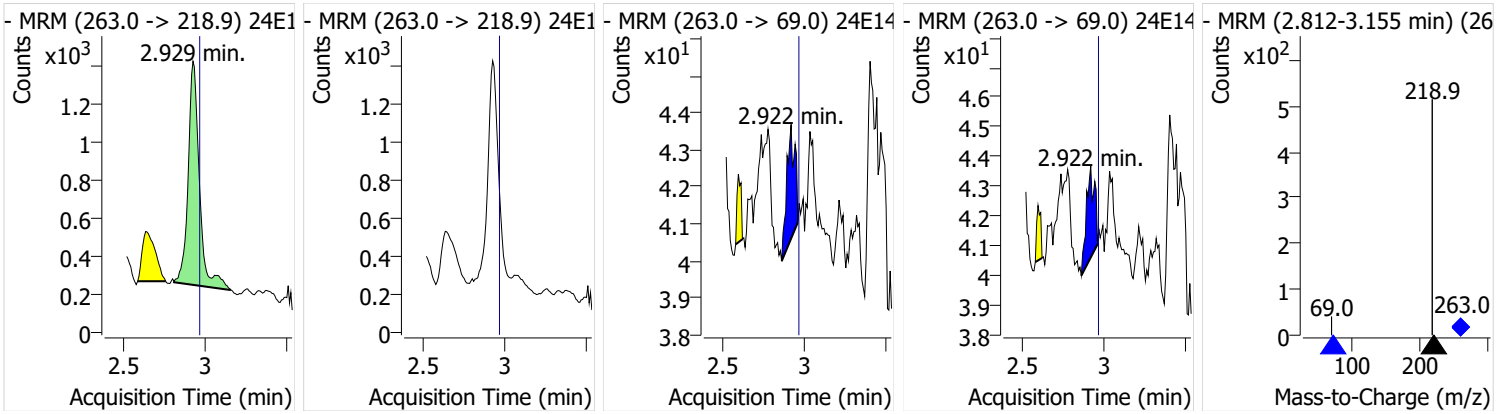
PFOS



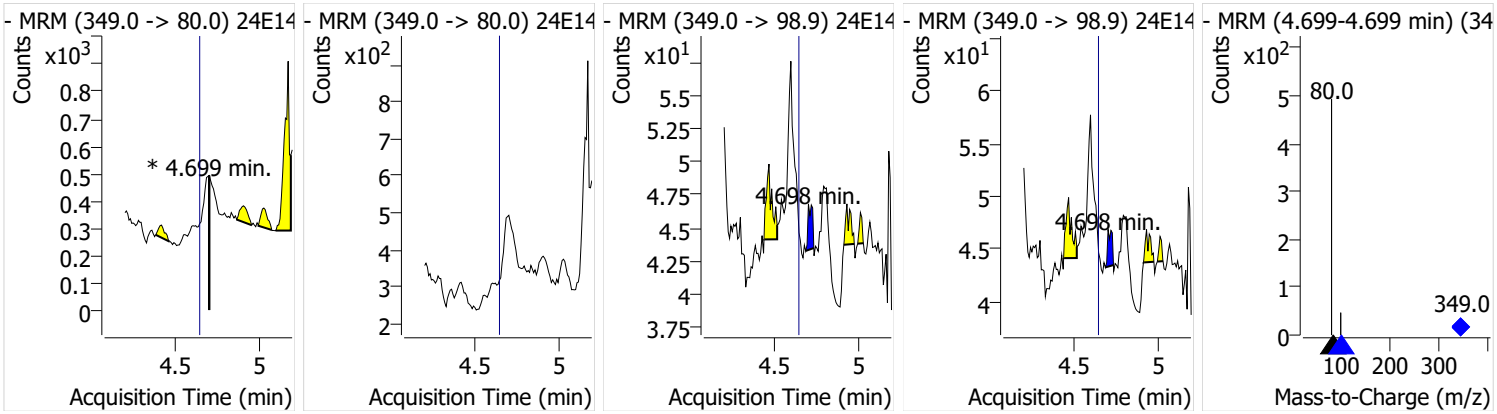
PFOSA



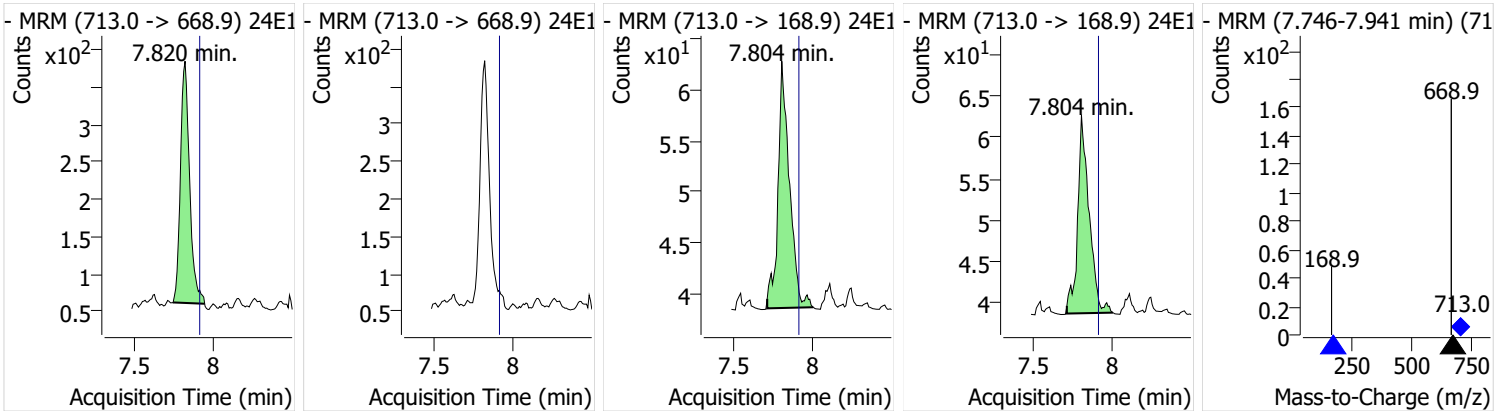
PFPeA



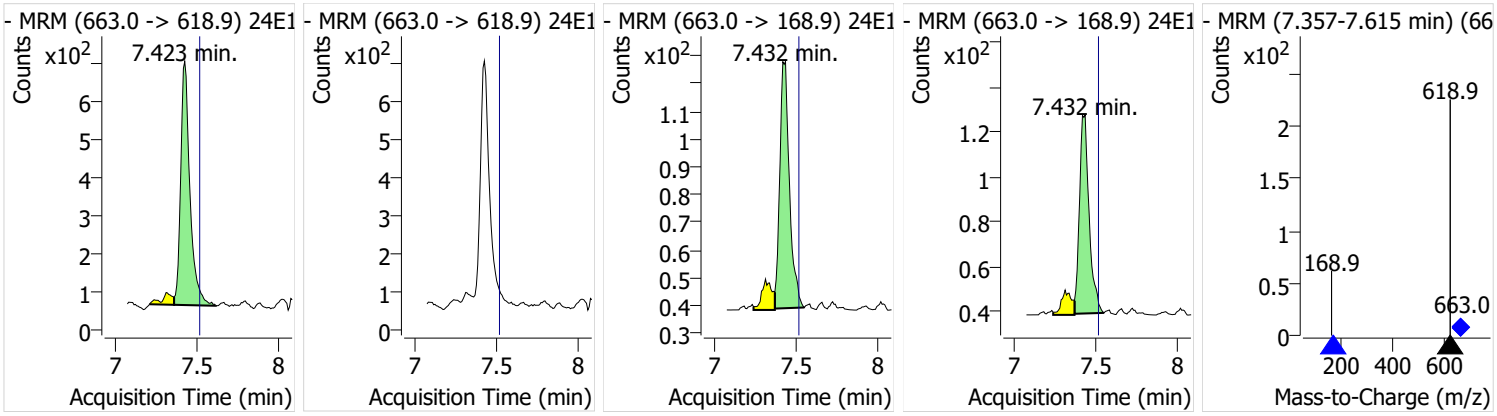
PFPeS



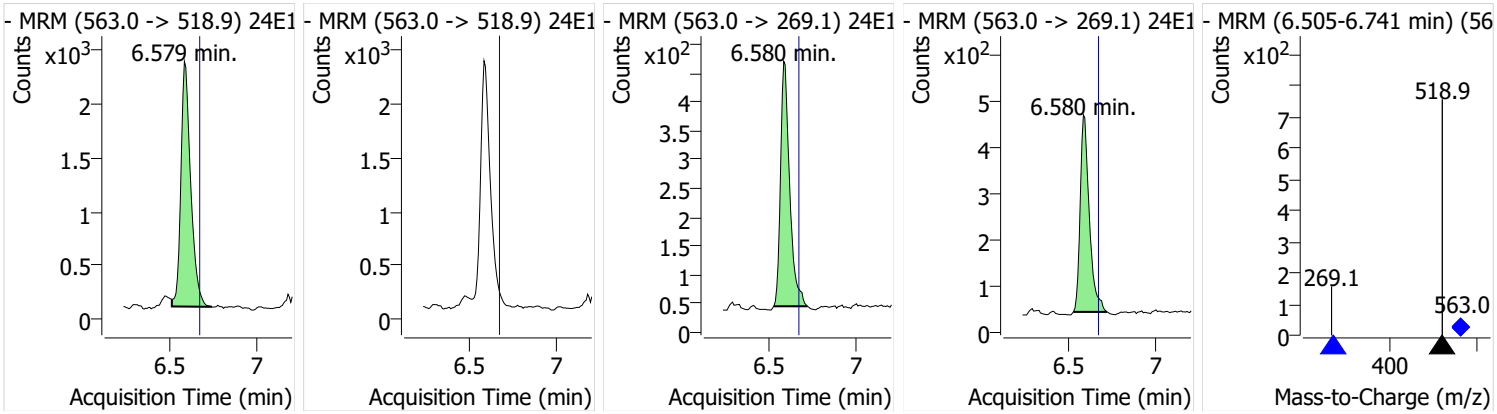
PFTeDA



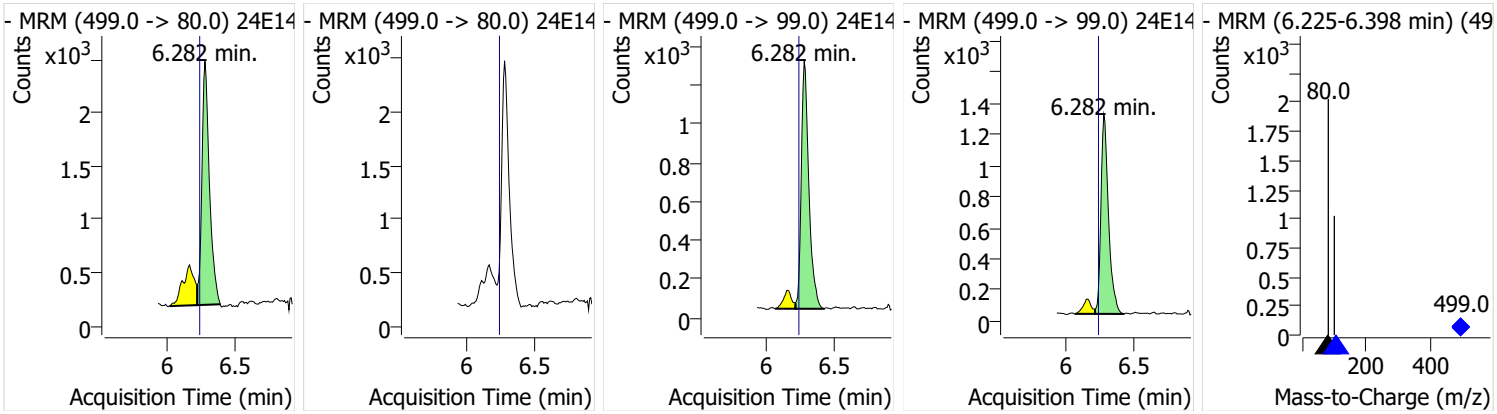
PFTrDA



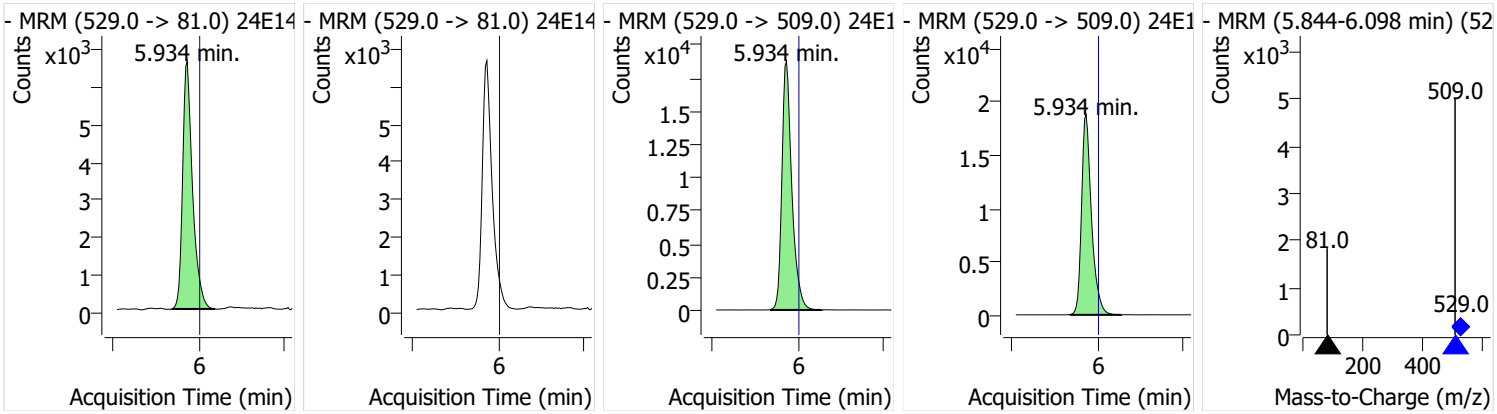
PFUnA



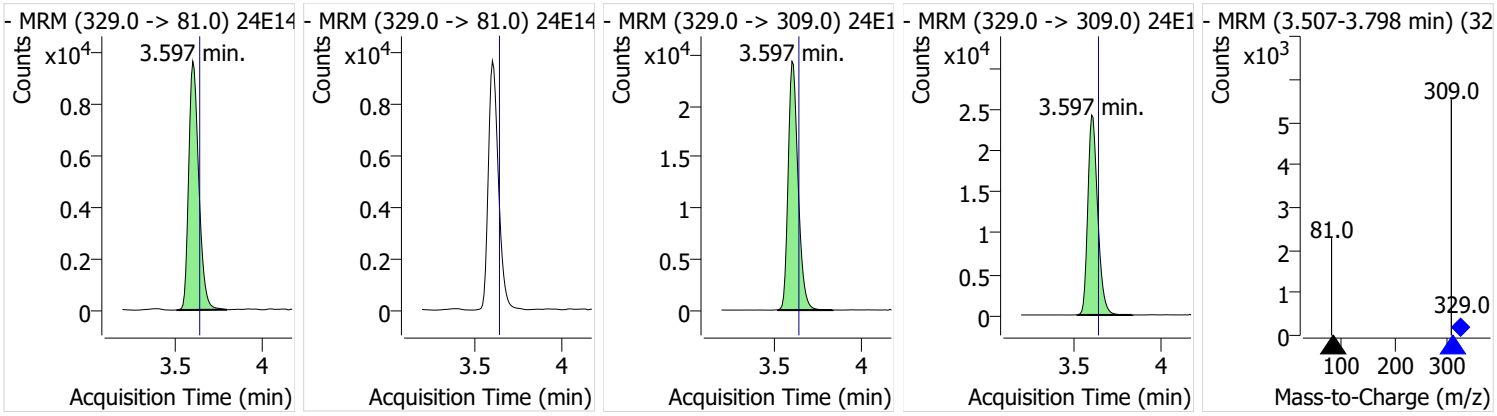
TDCA



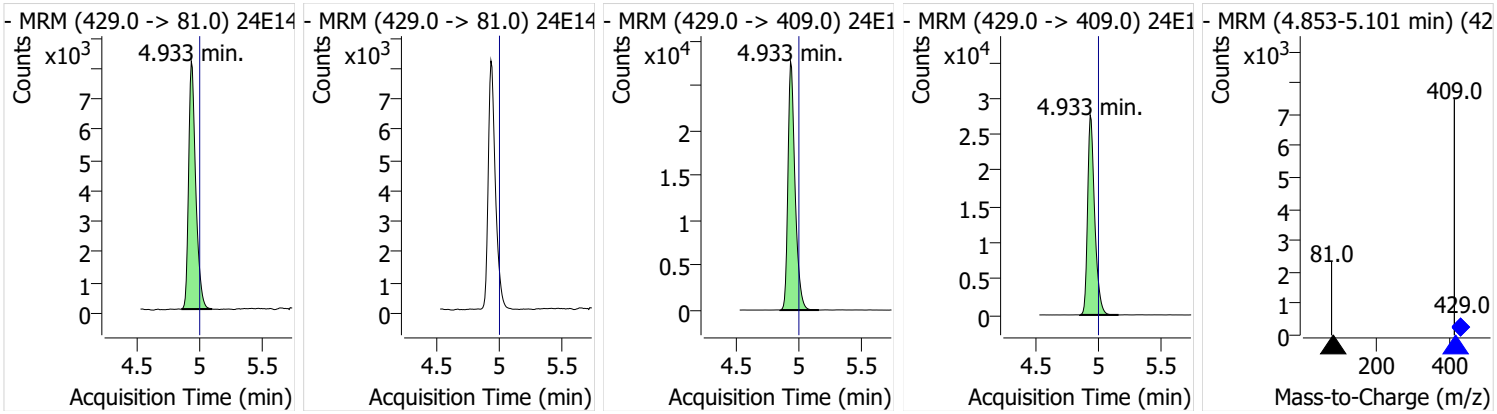
13C2-8:2FTS



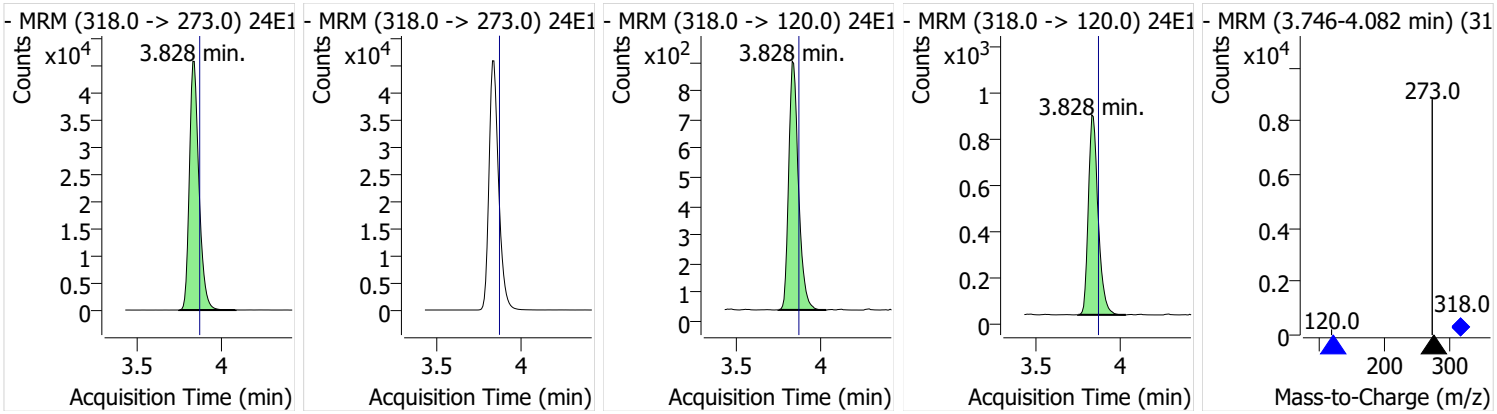
13C2-4:2FTS



13C2-6:2FTS

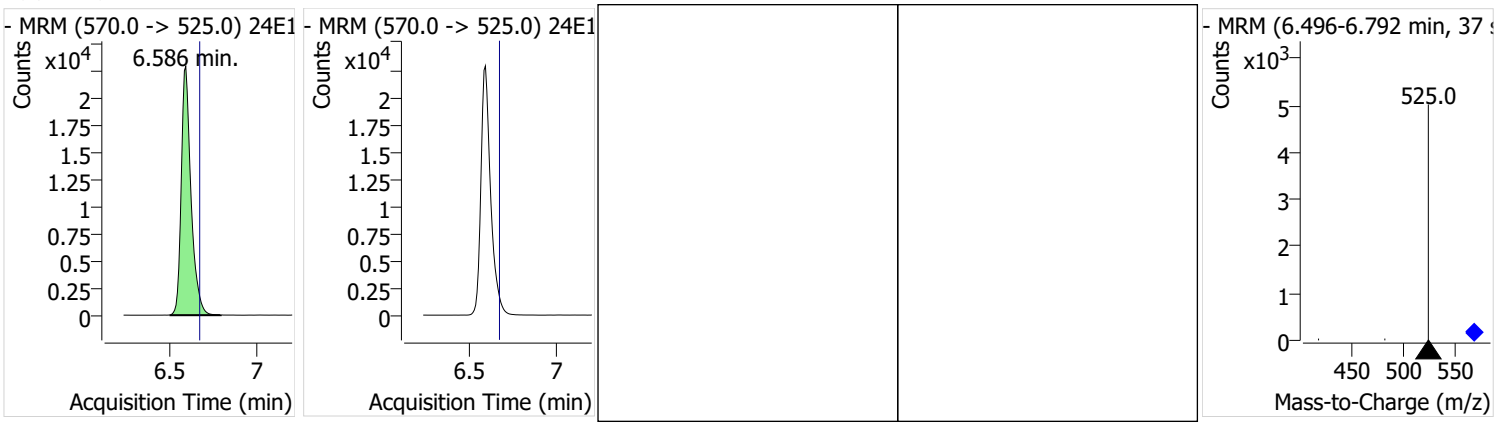


13C5-PFHxA



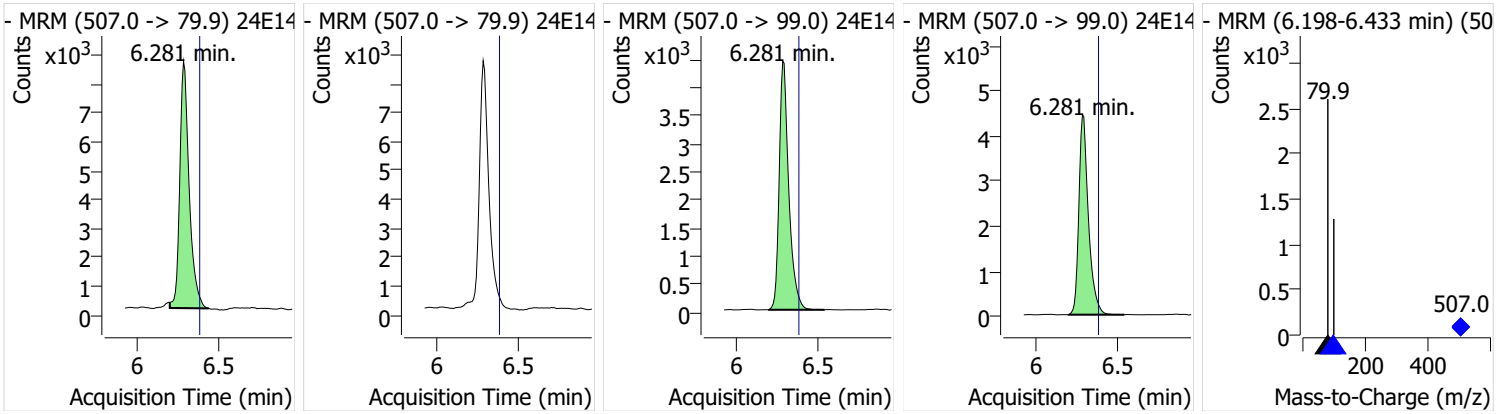
13C6-PFDA

13C7-PFUnA

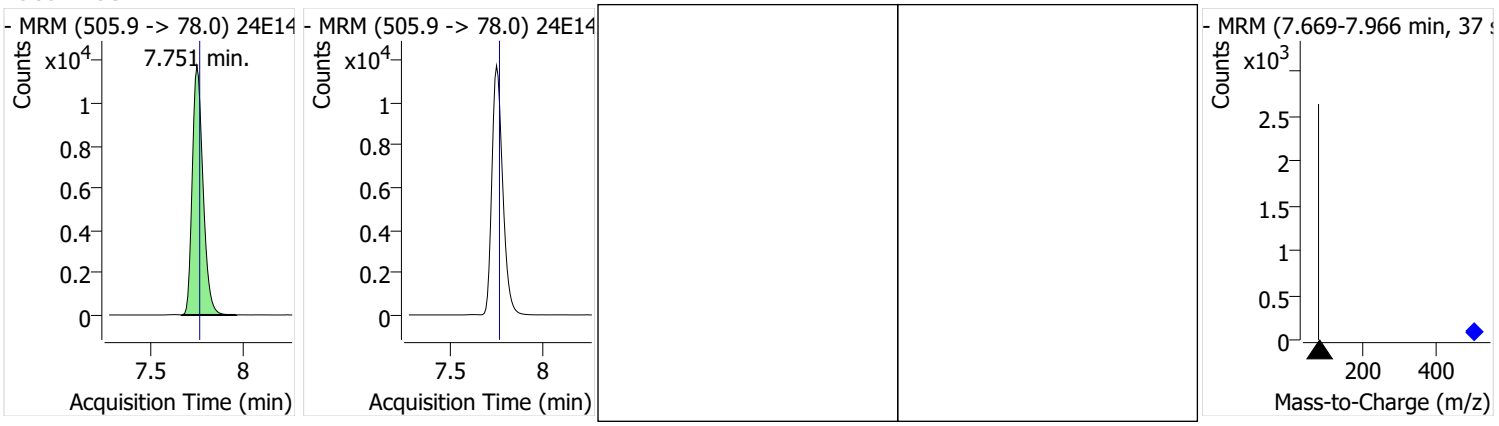


13C8-PFOA

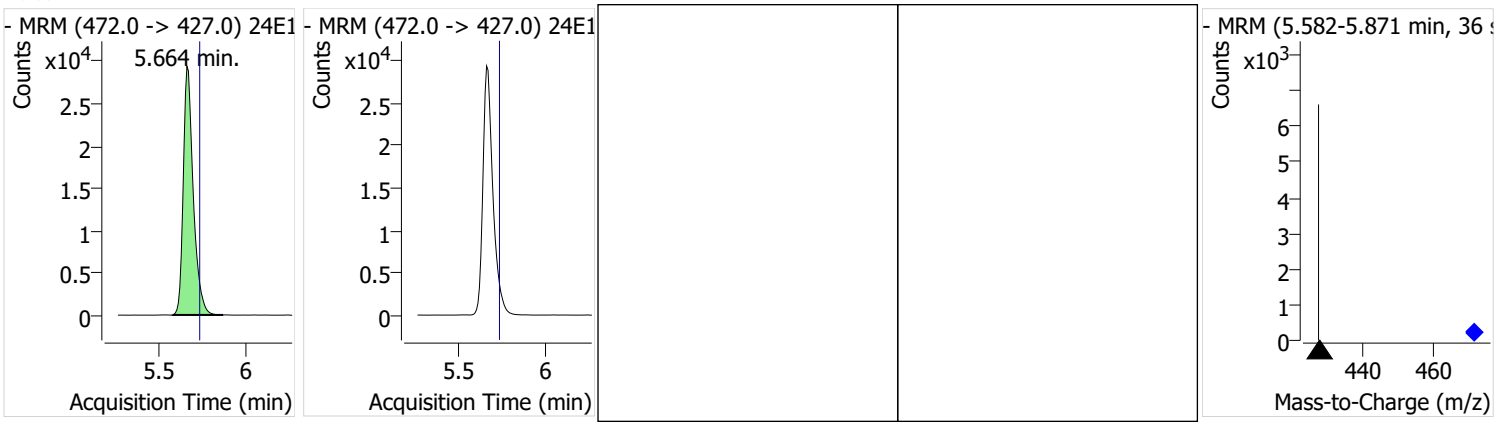
13C8-PFOS



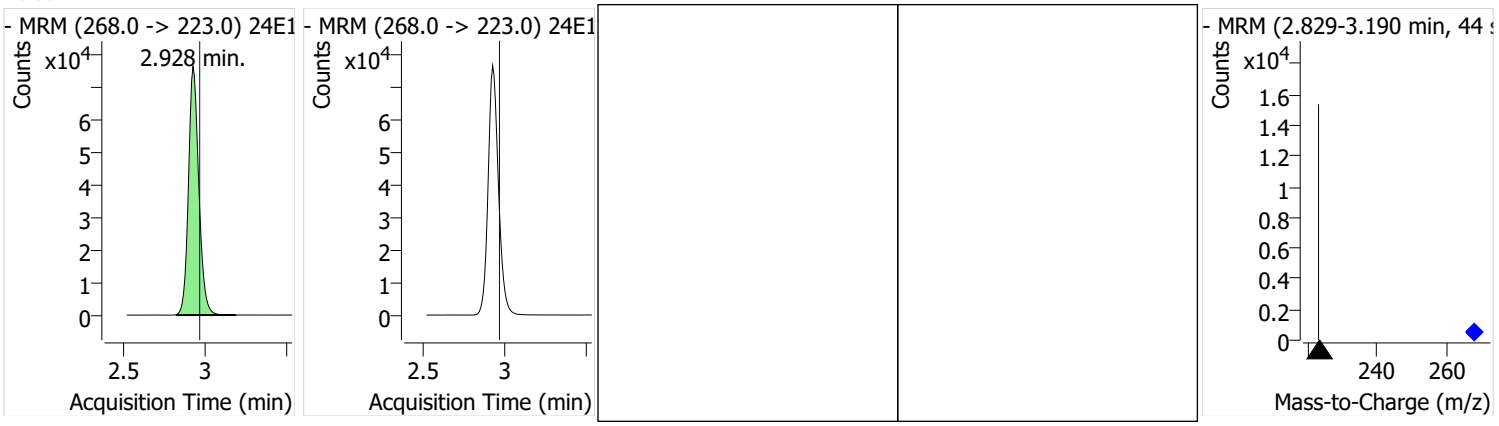
13C8-PFOSA



13C9-PFNA

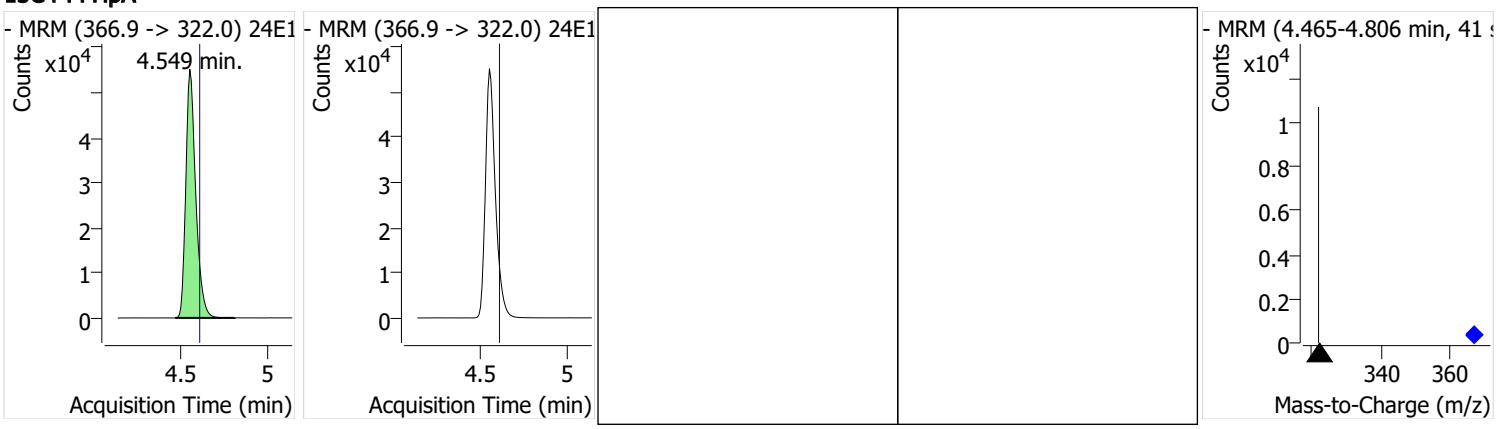


13C5-PFPeA

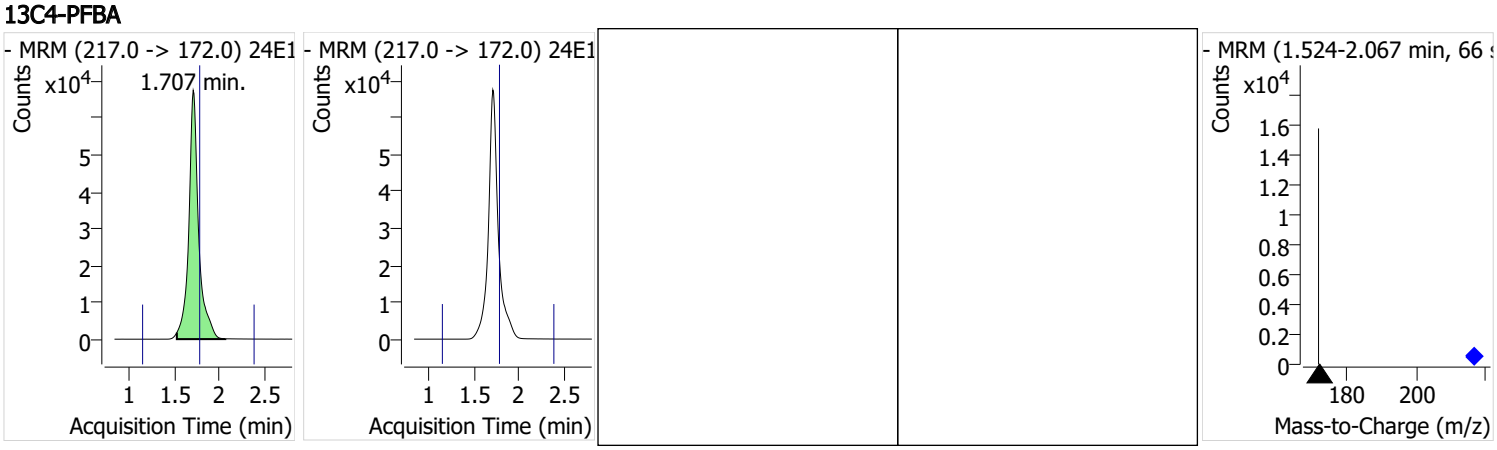


13C2-PFDoA

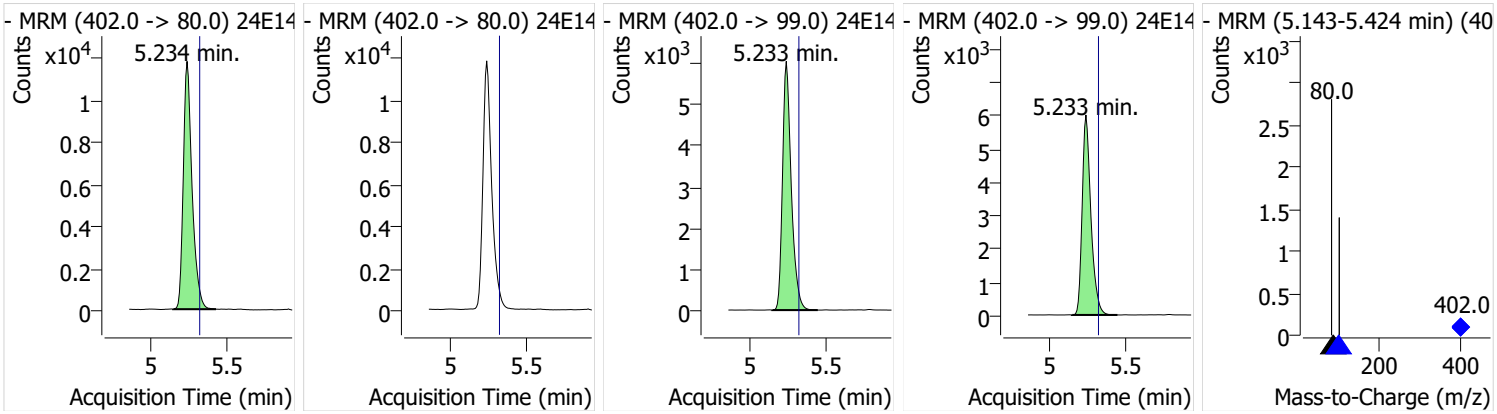
13C4-PFHpA



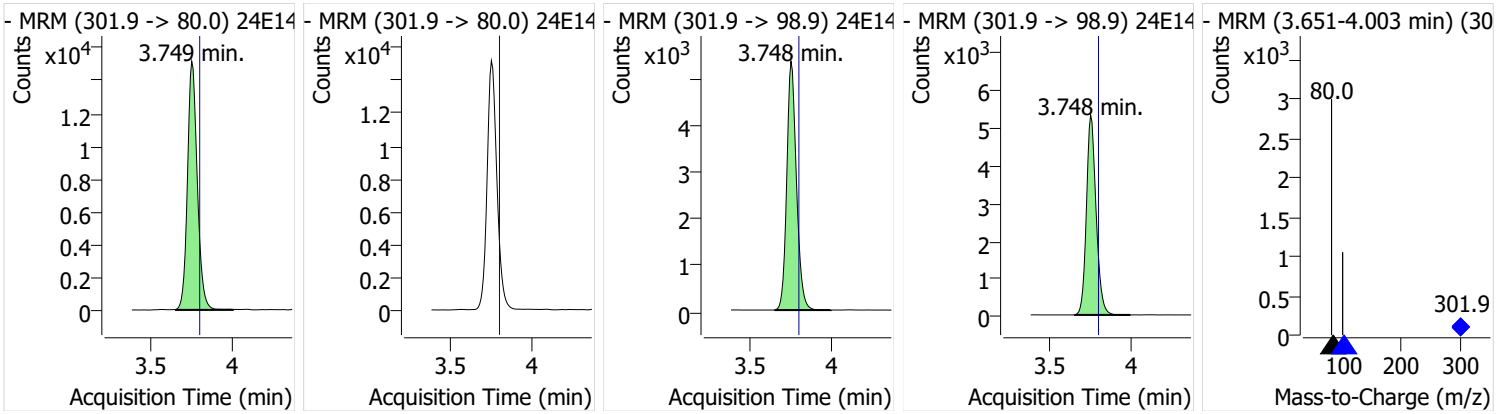
13C4-PFBA



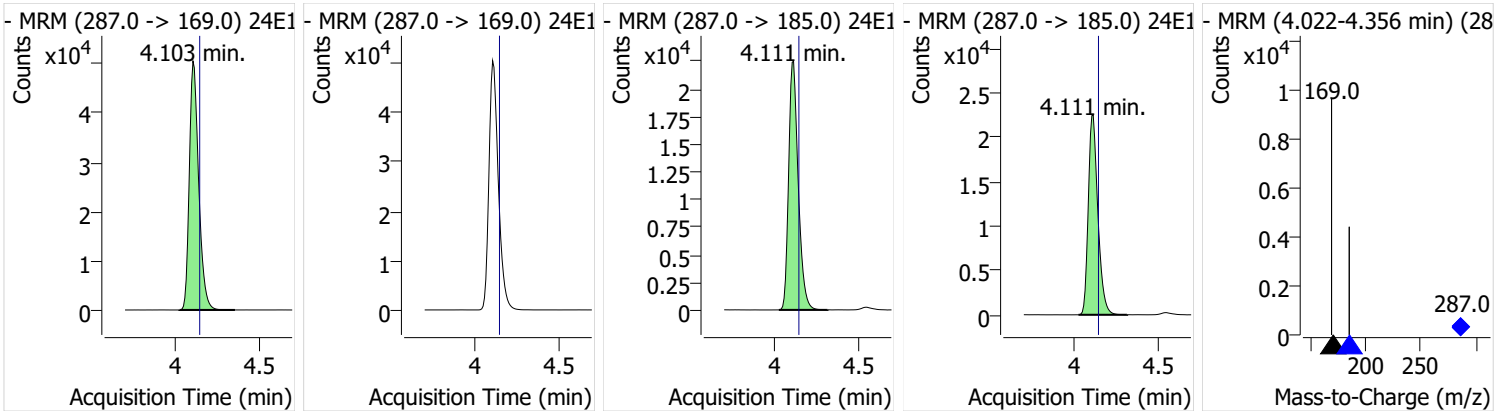
13C3-PFHxS



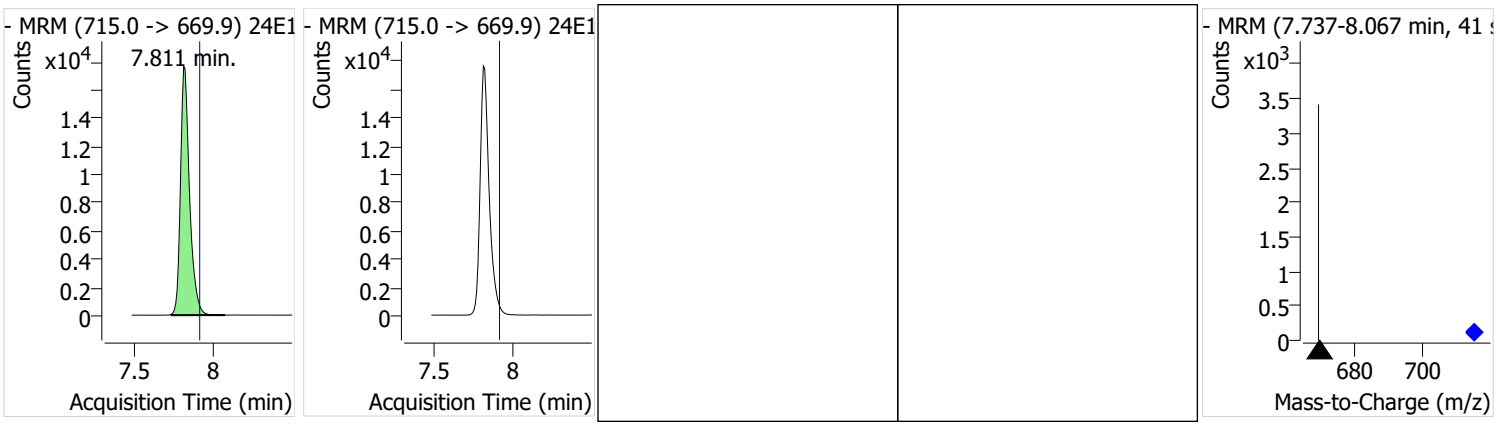
13C3-PFBS



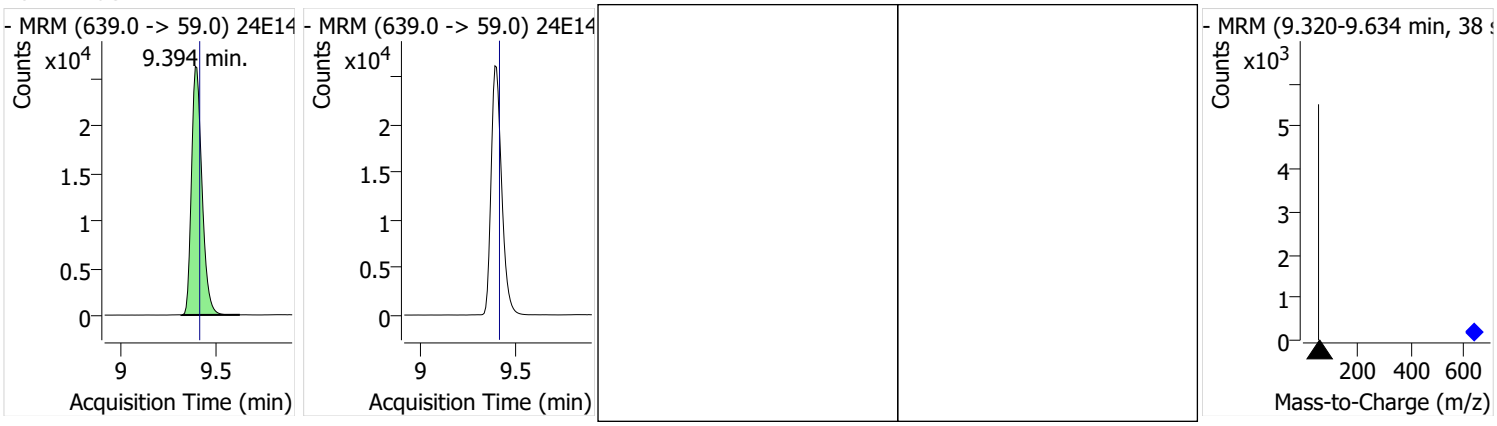
13C3-HFPODA



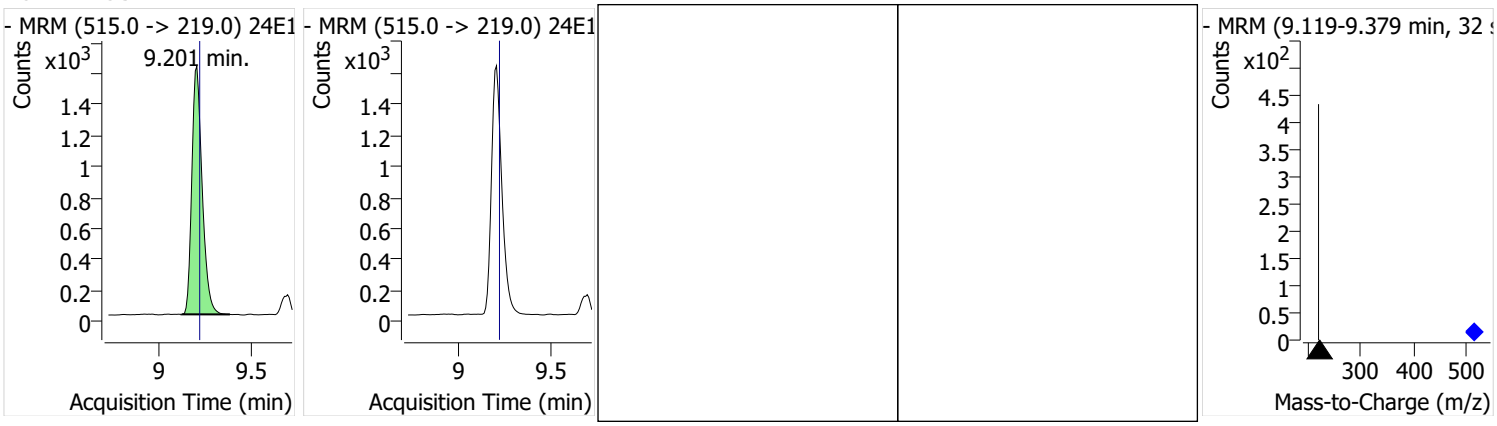
13C2-PFTeDA



D9-NEtFOSE



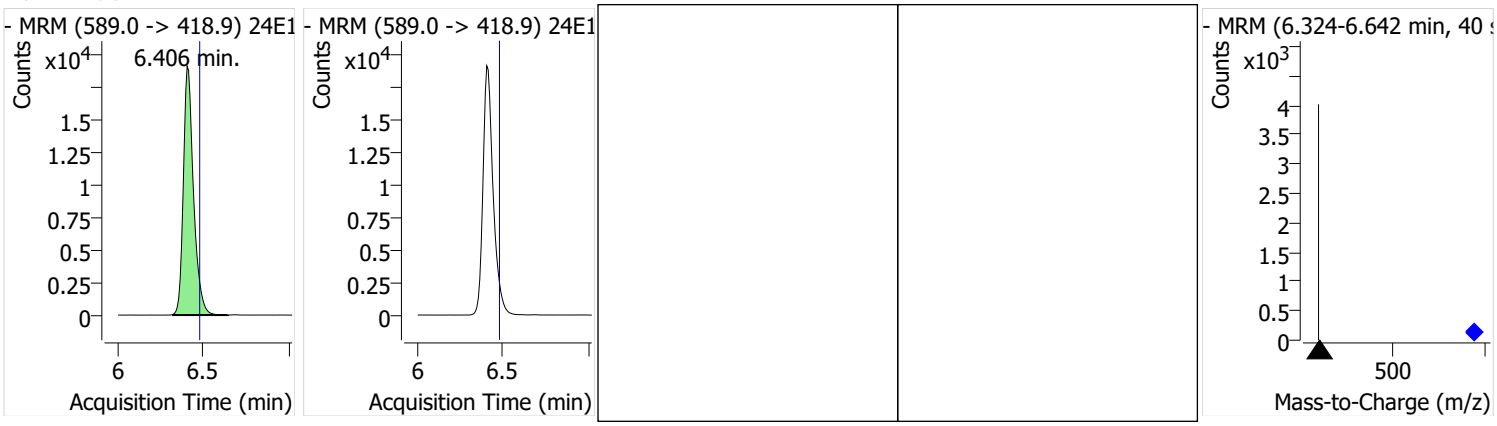
D3-NMeFOSA



D3-NMeFOSAA

D5-NEtFOSA

D5-NEtFOSAA



D7-NMeFOSE

1 - FORM I
ANALYSIS DATA SHEET

DUP

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-19RE1	File ID:	24E1437-19RE1.d
Sampled:	05/08/24 15:45	Prepared:	05/21/24 00:00	Analyzed:	05/28/24 20:02
Solids:	69.57	Preparation:	Draft Method 1633	Dilution:	1
Initial/Final:	7.192 g / 5 mL				
Batch:	B374779	Sequence:	S105135	Calibration:	2400593	Instrument:	QQQ5

CAS NO.	COMPOUND	CONC. (µg/kg dry)	MDL	RL	Q
375-22-4	Perfluorobutanoic acid (PFBA)		0.32	0.80	
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.13	0.045	0.40	J
307-24-4	Perfluorohexanoic acid (PFHxA)	0.12	0.033	0.20	J
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.14	0.014	0.20	J
335-67-1	Perfluorooctanoic acid (PFOA)	0.40	0.031	0.20	
375-95-1	Perfluorononanoic acid (PFNA)	0.20	0.014	0.20	
335-76-2	Perfluorodecanoic acid (PFDA)	0.096	0.018	0.20	J
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.11	0.023	0.20	J
307-55-1	Perfluorododecanoic acid (PFDoA)	0.041	0.022	0.20	J
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.031	0.022	0.20	J
376-06-7	Perfluorotetradecanoic acid (PFTeDA)		0.020	0.20	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.034	0.021	0.20	J
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)		0.026	0.20	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)		0.079	0.20	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)		0.021	0.20	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.55	0.032	0.20	
68259-12-1	Perfluorononanesulfonic acid (PFNS)		0.022	0.20	
335-77-3	Perfluorodecanesulfonic acid (PFDS)		0.032	0.20	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)		0.031	0.20	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (		0.070	0.80	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid ((		0.50	0.80	B-05
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (		0.093	0.80	
754-91-6	Perfluorooctanesulfonamide (PFOSA)		0.031	0.20	
31506-32-8	N-methyl perfluoroocatnesulfonamide (NMeF		0.025	0.20	
4151-50-2	N-ethyl perfluorooctanesulfonamide (NEtFOS		0.023	0.20	
2355-31-9	N-MeFOSAA (NMeFOSAA)		0.036	0.20	
2991-50-6	N-EtFOSAA (NEtFOSAA)		0.030	0.20	
24448-09-7	N-methylperfluorooctanesulfonamidoethanol(		0.22	2.0	
1691-99-2	N-ethylperfluorooctanesulfonamidoethanol (N		0.22	2.0	
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPC		0.051	0.80	

1 - FORM I
ANALYSIS DATA SHEET

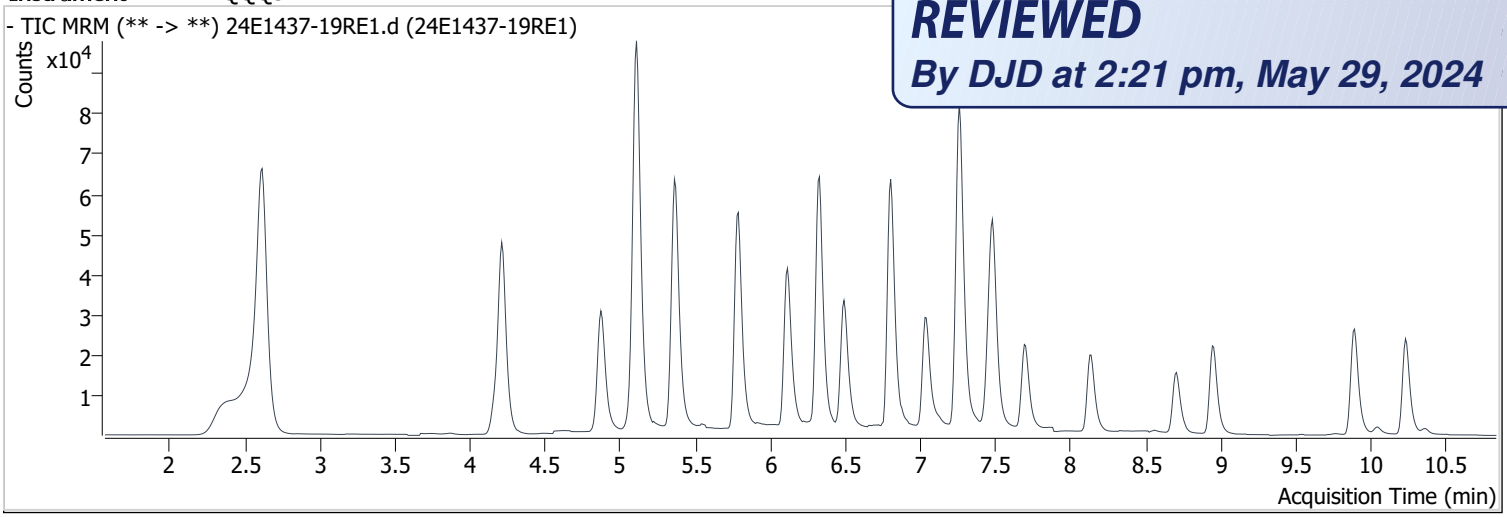
DUP

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-19RE1	File ID:	24E1437-19RE1.d
Sampled:	05/08/24 15:45	Prepared:	05/21/24 00:00	Analyzed:	05/28/24 20:02
Solids:	69.57	Preparation:	Draft Method 1633	Dilution:	1
Initial/Final:	7.192 g / 5 mL				
Batch:	B374779	Sequence:	S105135	Calibration:	2400593	Instrument:	QQQ5

CAS NO.	COMPOUND	CONC. (µg/kg dry)	MDL	RL	Q
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADON		0.060	0.80	
756426-58-1	9Cl-PF3ONS (F53B Minor)		0.058	0.80	
763051-92-9	11Cl-PF3OUdS (F53B Major)		0.089	0.80	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)(3:3		0.19	2.0	
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)		1.3	10	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)(7:3		1.5	10	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEE		0.032	0.40	
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)		0.033	0.40	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)		0.033	0.40	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)		0.060	0.40	

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\B374779_B375132.batch.bin		
Analysis Time	5/29/2024 12:02 PM	**Last Calib Update**	5/29/2024 8:40 AM
Acq. Time	5/28/2024 8:02 PM	**Data File**	24E1437-19RE1.d
Sample Type	Sample	**Sample Name**	24E1437-19RE1
Dilution	1	**Acq. Method**	1633_ACQUISITION.m
Sample Comment		**Processing method**	1633_052824.m
Instrument	QQQ5		

REVIEWED
By DJD at 2:21 pm, May 29, 2024



Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
11Cl-PF3OUdS	8.715	0			13C3-HFPODA - ISTD	5.367	156376	-	ng/ml	✔	1	AMS 05/29/24
633.0 -> 453.0				*								
3:3FTCA	3.841	0			13C5-PFPeA - ISTD	4.212	200455	-	ng/ml	✔	1	AMS 05/29/24
241.0 -> 117.0				*								
4:2FTS	4.863	0			13C2-4:2FTS - ISTD	4.870	30126	-	ng/ml	✔	1	AMS 05/29/24
327.0 -> 80.9				*								
5:3FTCA	5.411	0			13C5-PFHxA - ISTD	5.109	132864	-	ng/ml	✔	1	AMS 05/29/24
341.0 -> 217.0				*								
6:2FTS	6.114	7166	2092.75		13C2-6:2FTS - ISTD	6.114	30778	0.4095	ng/ml			
427.0 -> 80.9			118.17	41.1								
7:3FTCA	6.657	0			13C5-PFHxA - ISTD	5.109	132864	-	ng/ml	✔	1	AMS 05/29/24
441.0 -> 317.0				*								
8:2FTS	7.023	0			13C2-8:2FTS - ISTD	7.030	32219	-	ng/ml	✔	1	AMS 05/29/24
527.0 -> 81.0				*								
9Cl-PF3ONS	7.859	0			13C3-HFPODA - ISTD	5.367	156376	-	ng/ml	✔	1	AMS 05/29/24
533.0 -> 353.0				*								
ADONA	5.987	0			13C3-HFPODA - ISTD	5.367	156376	-	ng/ml	✔	1	AMS 05/29/24
377.0 -> 85.1				*								

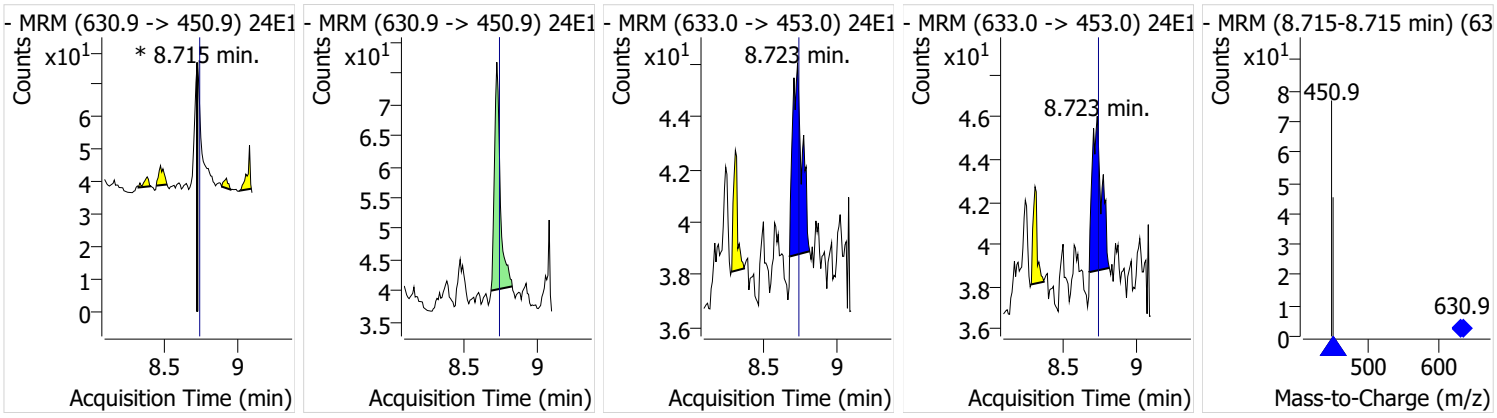
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA	5.368	0			13C3-HFPODA - ISTD	5.367	156376	-	ng/ml	✔	1	AMS 05/29/ 24
285.0 -> 184.9				*								
NEtFOSA	10.348	0			D5-NEtFOSA - ISTD	10.362	4026	-	ng/ml	✔	1	AMS 05/29/ 24
526.0 -> 219.0				*								
NEtFOSAA	7.453	0			D5-NEtFOSAA - ISTD	7.453	73747	-	ng/ml	✔	1	AMS 05/29/ 24
584.0 -> 526.0				*								
NEtFOSE	10.245	0			D9-NEtFOSE - ISTD	10.227	82259	-	ng/ml	✔	1	AMS 05/29/ 24
NFDHA	5.032	0			13C5-PFHxA - ISTD	5.109	132864	-	ng/ml	✔	1	AMS 05/29/ 24
295.0 -> 85.0				*								
NMeFOSA	10.044	0			D3-NMeFOSA - ISTD	10.043	5895	-	ng/ml	✔	1	AMS 05/29/ 24
512.0 -> 219.0				*								
NMeFOSAA	7.266	0			D3-NMeFOSAA - ISTD	7.266	141072	-	ng/ml	✔	1	AMS 05/29/ 24
570.0 -> 418.9				*								
NMeFOSE	9.915	0			D7-NMeFOSE - ISTD	9.890	96434	-	ng/ml	✔	1	AMS 05/29/ 24
PFBA	2.612	3976	297.72		13C4-PFBA - ISTD	2.614	213198	0.2060	ng/ml	✔	3	AMS 05/29/ 24
PFBS	5.121	928	34.80		13C3-PFBS - ISTD	5.120	57828	0.0340	ng/ml	✔	3	AMS 05/29/ 24
298.9 -> 98.8			∞	58.2								
PFDA	7.254	5145	142.20		13C6-PFDA - ISTD	7.253	68715	0.0956	ng/ml			
513.0 -> 219.0			280.39	21.6								
PFDoA	8.137	2202			13C2-PFDoA - ISTD	8.128	67563	0.0406	ng/ml			
613.0 -> 319.0			∞	21.3								
PFDoS	9.508	0			13C8-PFOS - ISTD	7.484	36235	-	ng/ml	✔	1	AMS 05/29/ 24
698.9 -> 99.0				*								
PFDS	8.386	0			13C8-PFOS - ISTD	7.484	36235	-	ng/ml	✔	1	AMS 05/29/ 24
599.0 -> 98.8				*								
PFEESA	5.454	0			13C5-PFHxA - ISTD	5.109	132864	-	ng/ml	✔	1	AMS 05/29/ 24
315.0 -> 83.0				*								
PFHpA	5.789	9942	132.57		13C4-PFHpA - ISTD	5.789	177659	0.1352	ng/ml			
362.9 -> 169.0			395.26	17.5								
PFHpS	7.125	0			13C8-PFOS - ISTD	7.484	36235	-	ng/ml	✔	1	AMS 05/29/ 24
449.0 -> 98.8				*								
PFHxA	5.111	6316	72.71		13C5-PFHxA - ISTD	5.109	132864	0.1213	ng/ml			
313.0 -> 118.9			10.07	2.3								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFHxS	6.497	0			13C3-PFHxS - ISTD	6.496	41843	-	ng/ml	✔	1	AMS 05/29/24
398.9 -> 99.0				*								
PFMBA	4.530	0			13C5-PFPeA - ISTD	4.212	200455	-	ng/ml	✔	1	AMS 05/29/24
PFMPA	3.341	0			13C5-PFPeA - ISTD	4.212	200455	-	ng/ml	✔	1	AMS 05/29/24
PFNA	6.804	12769	193.64		13C9-PFNA - ISTD	6.804	79713	0.2033	ng/ml			
463.0 -> 219.0			585.56	22.6								
PFNS	7.883	0			13C8-PFOS - ISTD	7.484	36235	-	ng/ml	✔	1	AMS 05/29/24
549.0 -> 98.8				*								
PFOA	6.321	29512	389.80		13C8-PFOA - ISTD	6.328	160013	0.4017	ng/ml			
413.0 -> 169.0			1562.72	23.9								
PFOS	7.485	9590	188.17		13C8-PFOS - ISTD	7.484	36235	0.5459	ng/ml	✔	3	AMS 05/29/24
499.0 -> 99.0			269.35	50.4								
PFOSA	8.710	0			13C8-PFOSA - ISTD	8.709	54500	-	ng/ml	✔	1	AMS 05/29/24
497.9 -> 478.0				*								
PFPeA	4.214	4957	49.58		13C5-PFPeA - ISTD	4.212	200455	0.1255	ng/ml			
263.0 -> 69.0			6.80	0.2								
PFPeS	5.832	0			13C3-PFHxS - ISTD	6.496	41843	-	ng/ml	✔	1	AMS 05/29/24
349.0 -> 98.9				*								
PFTeDA	8.943	1005	49.55		13C2-PFTeDA - ISTD	8.942	78311	0.0166	ng/ml			
713.0 -> 168.9			36.31	8.4								
PFTrDA	8.557	1718	88.76		13C2-PFDoA - ISTD	8.128	67563	0.0306	ng/ml			
663.0 -> 168.9			201.79	18.0								
PFUnA	7.702	5562	157.61		13C7-PFUnA - ISTD	7.692	67762	0.1059	ng/ml			
563.0 -> 269.1			131.25	29.1								
TDCA	5.385	143	4.10					-	ng/ml			
499.0 -> 99.0			4.33	15.6								
13C2-8:2FTS	7.038	65150	82437.25		18O2-PFHxS	6.495	47696	5.0017	ng/ml			
529.0 -> 81.0			2138.44	49.5								
13C2-4:2FTS	4.870	83402	10017.89		18O2-PFHxS	6.495	47696	3.4348	ng/ml			
329.0 -> 81.0			923.10	36.1								
13C2-6:2FTS	6.113	98531	40195.18		18O2-PFHxS	6.495	47696	4.5654	ng/ml			
429.0 -> 81.0			1271.84	31.2								
13C5-PFHxA	5.109	132864	16909.39		13C2-PFHxA	5.110	150875	2.0784	ng/ml			
318.0 -> 120.0			577.19	1.6								
13C6-PFDA	7.253	68715	6862.11		13C2-PFDA	7.253	82014	1.0522	ng/ml			
13C7-PFUnA	7.692	67762	15625.76		13C2-PFDA	7.253	82014	1.1098	ng/ml			

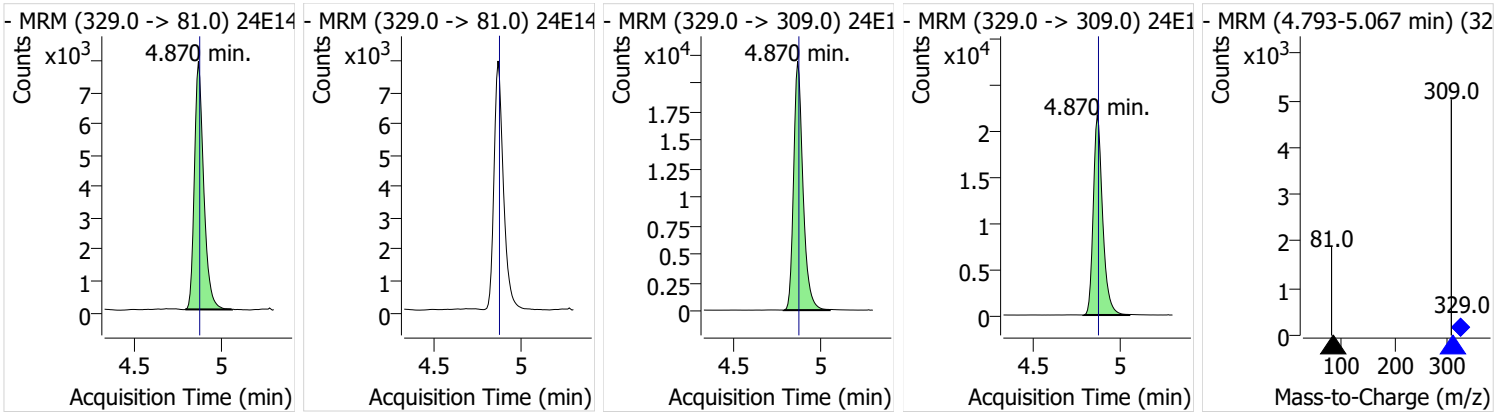
Quantitative Analysis Sample Report

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
13C8-PFOA	6.328	160013	22137.82		13C4-PFOA	6.329	22851	2.1401	ng/ml			
13C8-PFOS	7.484	36235	525.67		13C4-PFOS	7.484	48607	2.0099	ng/ml			
507.0 -> 99.0			1525.89	54.3								
13C8-PFOSA	8.709	54500	470633.17		13C4-PFOS	7.484	48607	1.6729	ng/ml			
13C9-PFNA	6.804	79713	7526.57		13C5-PFNA	6.804	124183	1.0432	ng/ml			
13C5-PFPeA	4.212	200455	31220.53		13C2-PFHxA	5.110	150875	4.2288	ng/ml			
13C2-PFDoA	8.128	67563	18148.36		13C2-PFDA	7.253	82014	1.0721	ng/ml			
13C4-PFHpA	5.789	177659	16856.57		13C2-PFHxA	5.110	150875	2.1303	ng/ml			
13C4-PFBA	2.614	227858	57252.07		13C3-PFBA	2.609	124091	8.4055	ng/ml	✔	3	AMS 05/29/24
13C3-PFHxS	6.496	41843	1575.95		18O2-PFHxS	6.495	47696	2.1377	ng/ml			
402.0 -> 99.0			5154.21	52.1								
13C3-PFBS	5.120	57828	1577.17		18O2-PFHxS	6.495	47696	2.0416	ng/ml			
301.9 -> 98.9			4864.49	38.0								
13C3-HFPODA	5.367	156376	32945.38		13C2-PFHxA	5.110	150875	8.5295	ng/ml			
287.0 -> 185.0			7444.43	43.3								
13C2-PFTeDA	8.942	78311	26930.81		13C2-PFDA	7.253	82014	0.9216	ng/ml			
D9-NEtFOSE	10.227	82259	8920.12		13C4-PFOS	7.484	48607	7.8054	ng/ml			
D3-NMeFOSA	10.043	5895	1617.86		13C4-PFOS	7.484	48607	0.5540	ng/ml			
D3-NMeFOSAA	7.266	141072	13996.49		13C4-PFOS	7.484	48607	3.9052	ng/ml			
D5-NEtFOSA	10.362	4026	799.29		13C4-PFOS	7.484	48607	0.3716	ng/ml			
D5-NEtFOSAA	7.453	73747	7044.31		13C4-PFOS	7.484	48607	4.0779	ng/ml			
D7-NMeFOSE	9.890	96434	17009.51		13C4-PFOS	7.484	48607	9.7916	ng/ml			

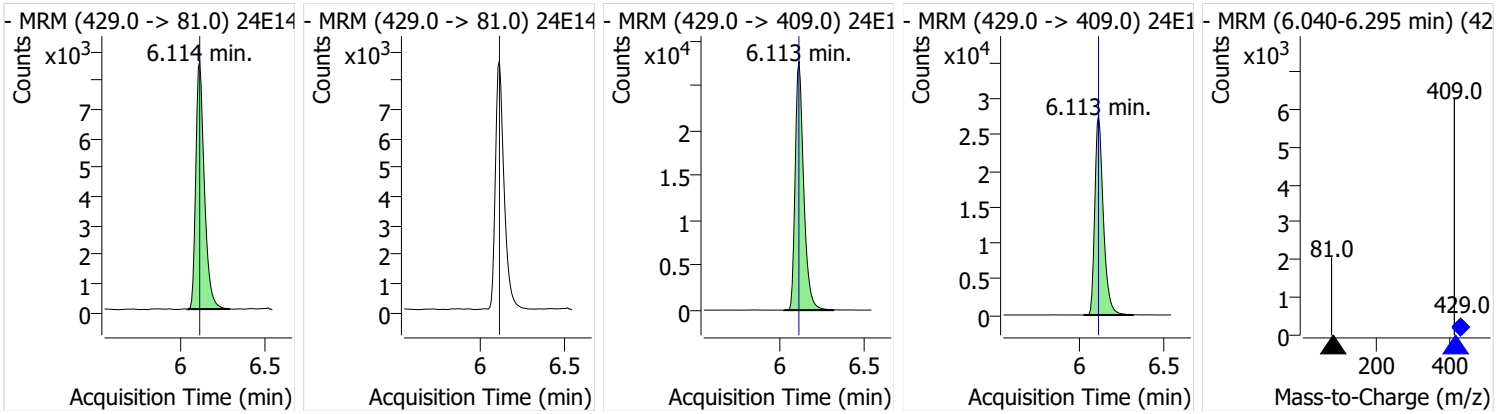
11Cl-PF3OUdS



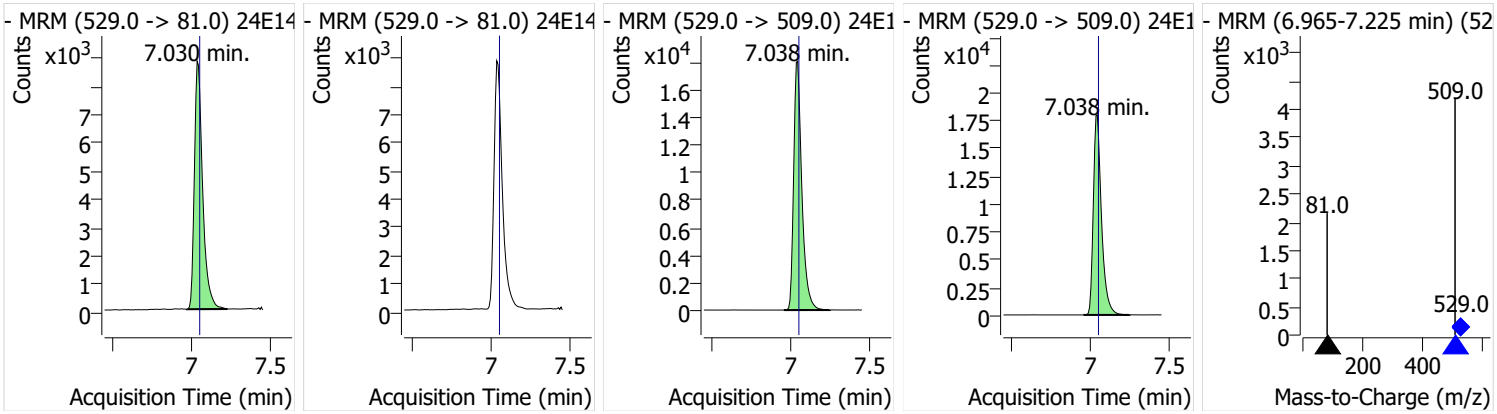
13C2-4:2FTS - ISTD



13C2-6:2FTS - ISTD

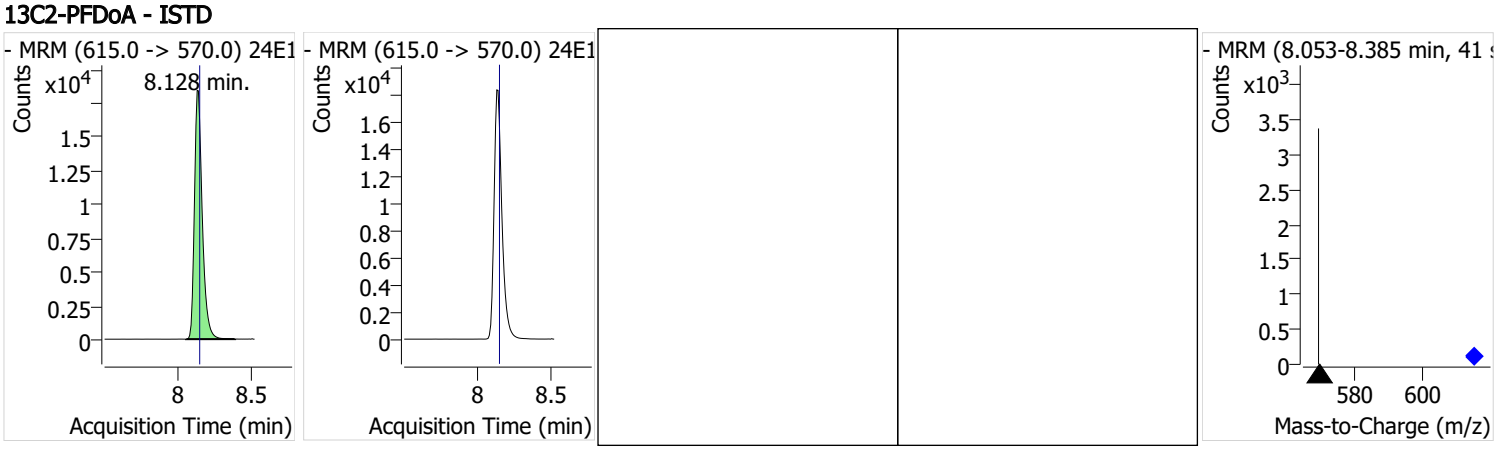


13C2-8:2FTS - ISTD

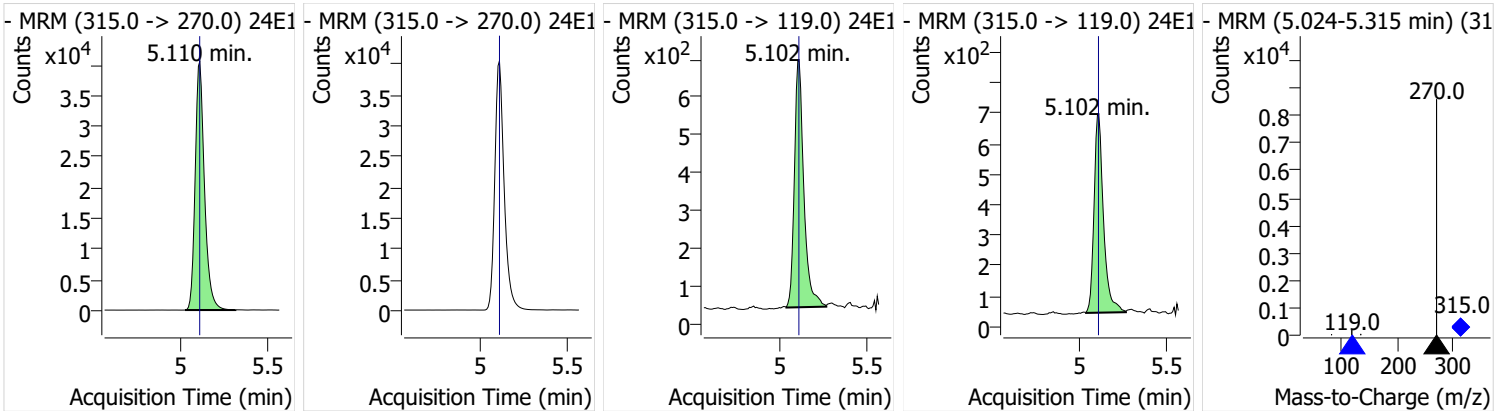


13C2-PFDA

13C2-PFDoA - ISTD

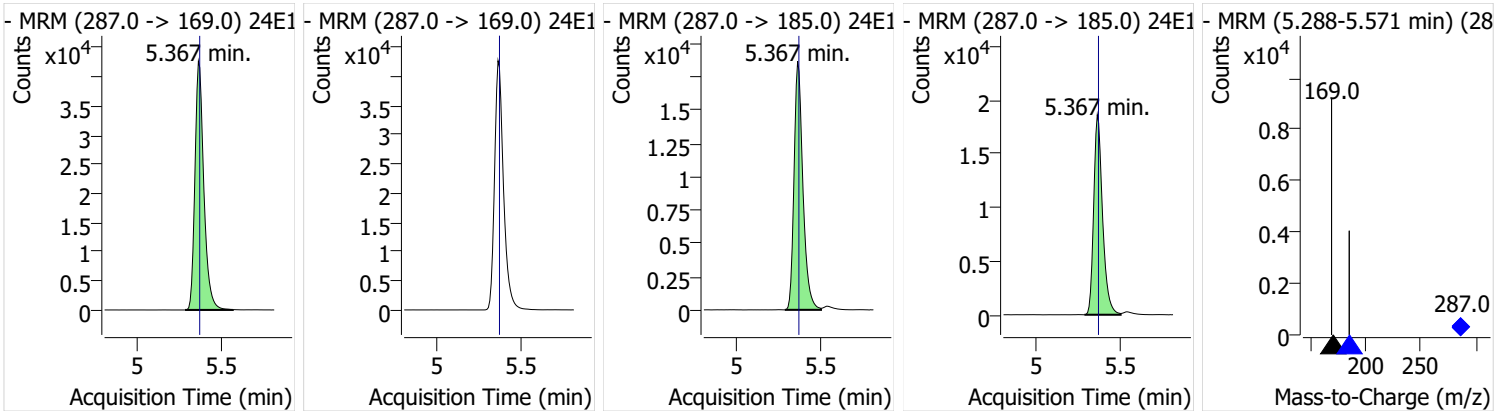


13C2-PFHxA



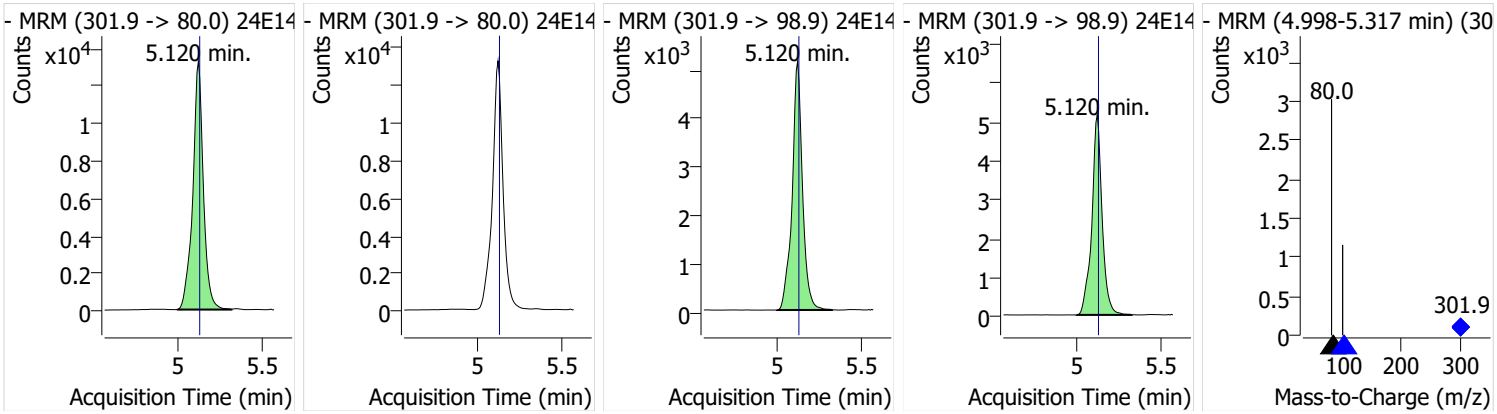
13C2-PFTeDA - ISTD

13C3-HFPODA - ISTD

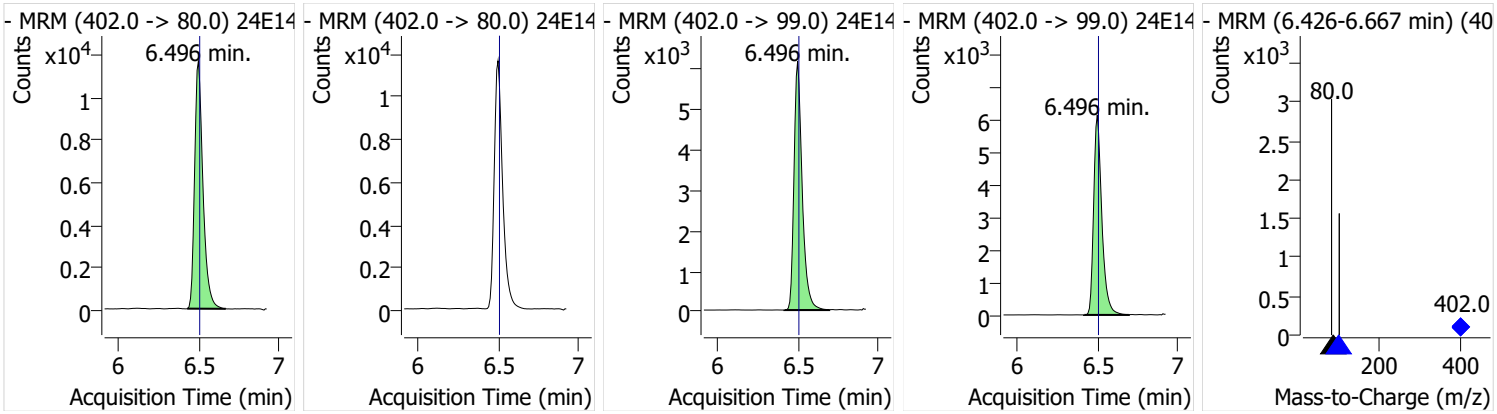


13C3-PFBA

13C3-PFBS - ISTD

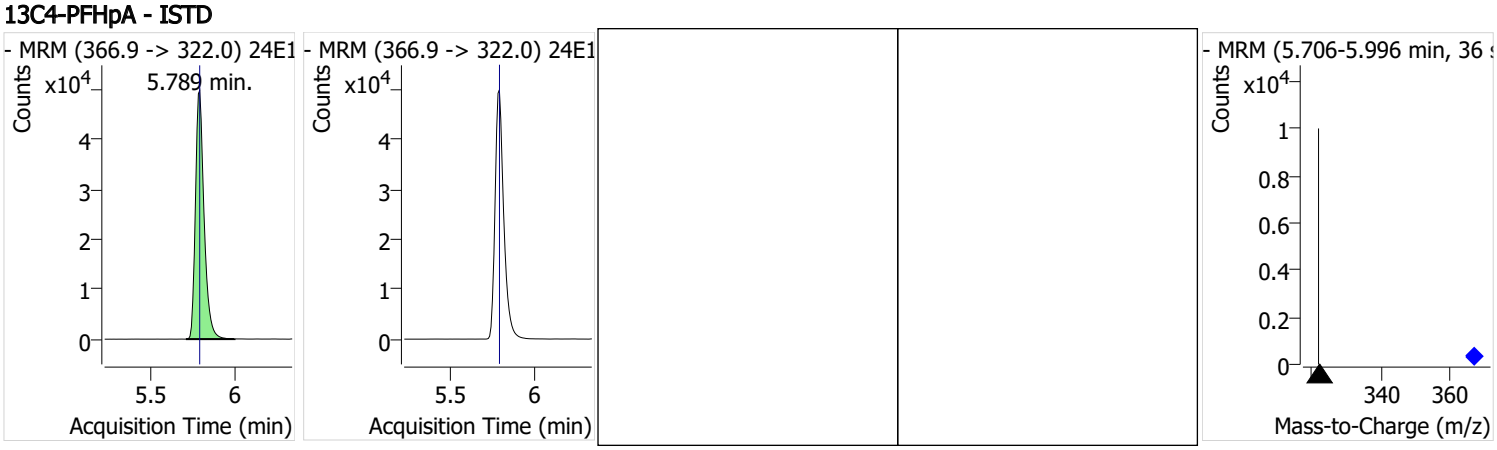


13C3-PFHxS - ISTD

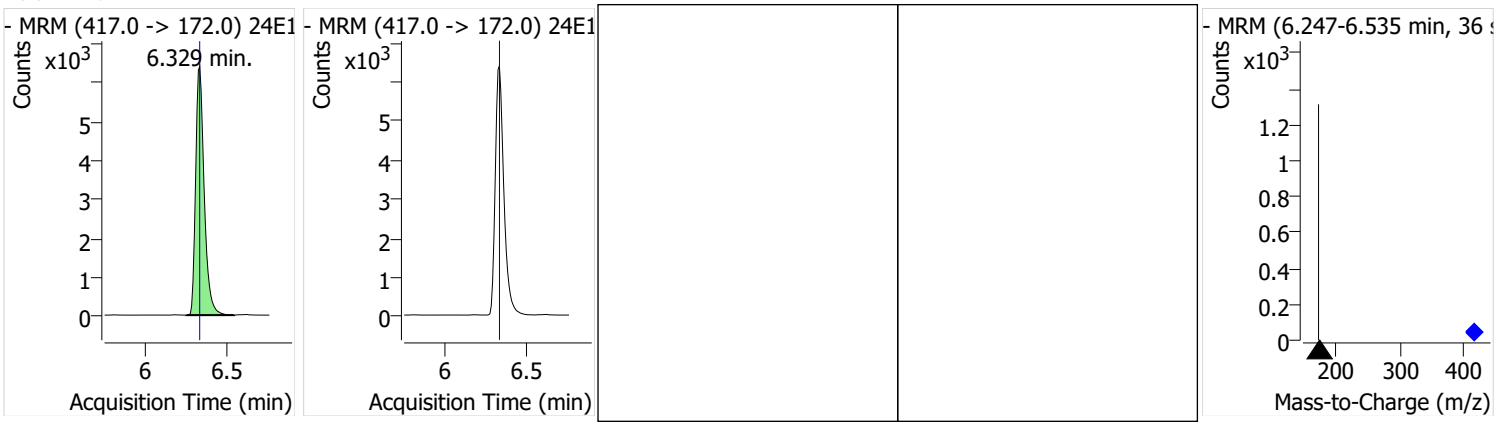


13C4-PFBA - ISTD

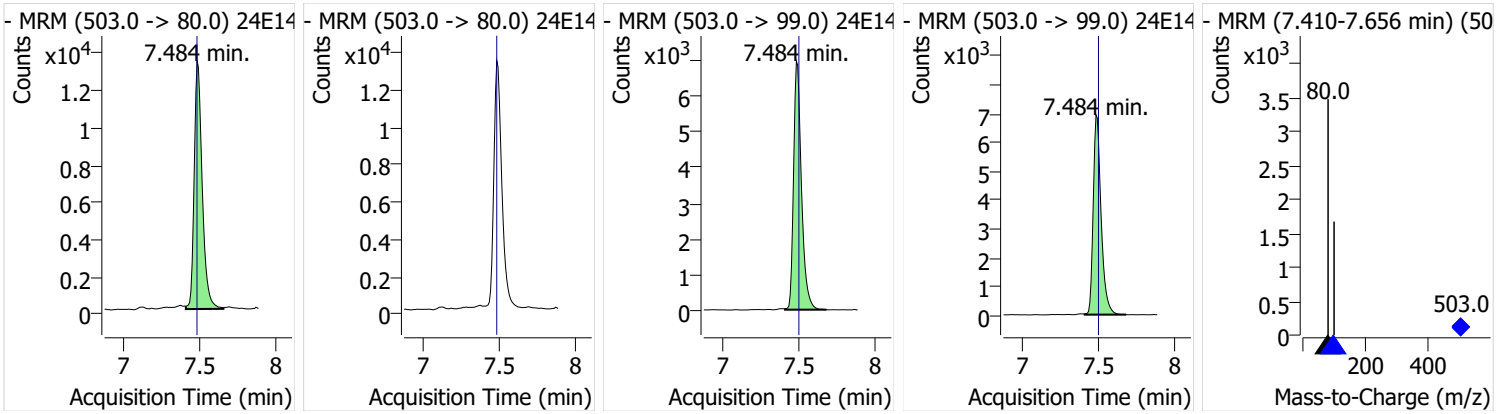
13C4-PFHpA - ISTD



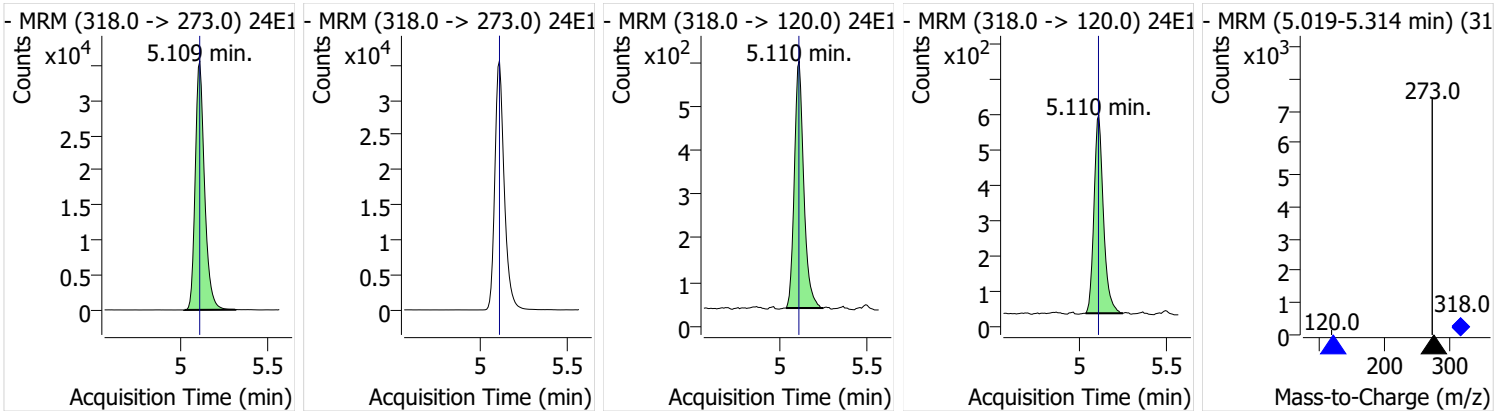
13C4-PFOA



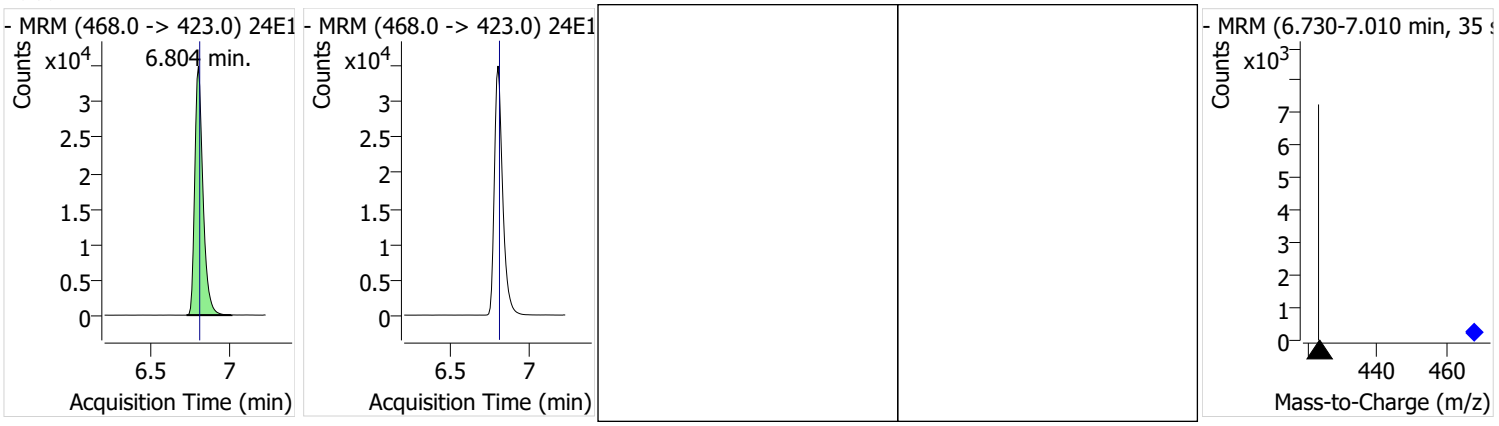
13C4-PFOS



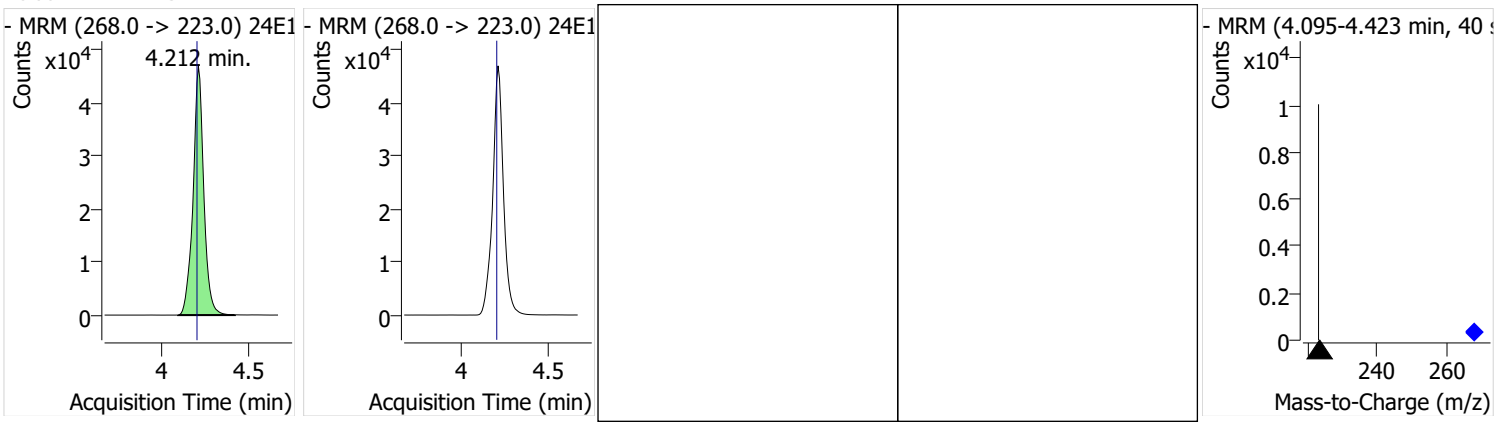
13C5-PFHxA - ISTD



13C5-PFNA



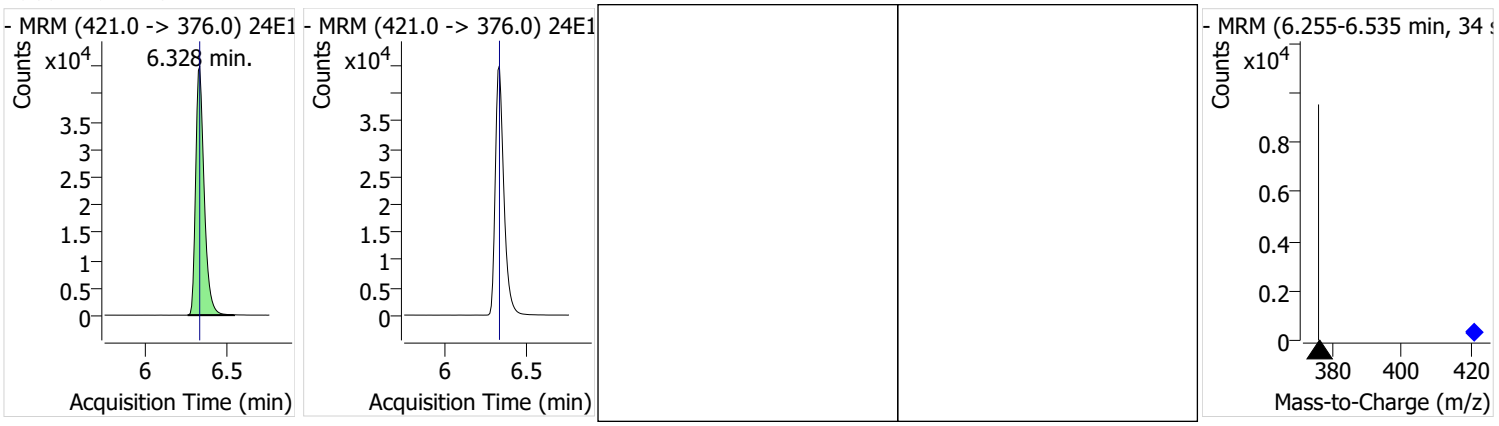
13C5-PFPeA - ISTD



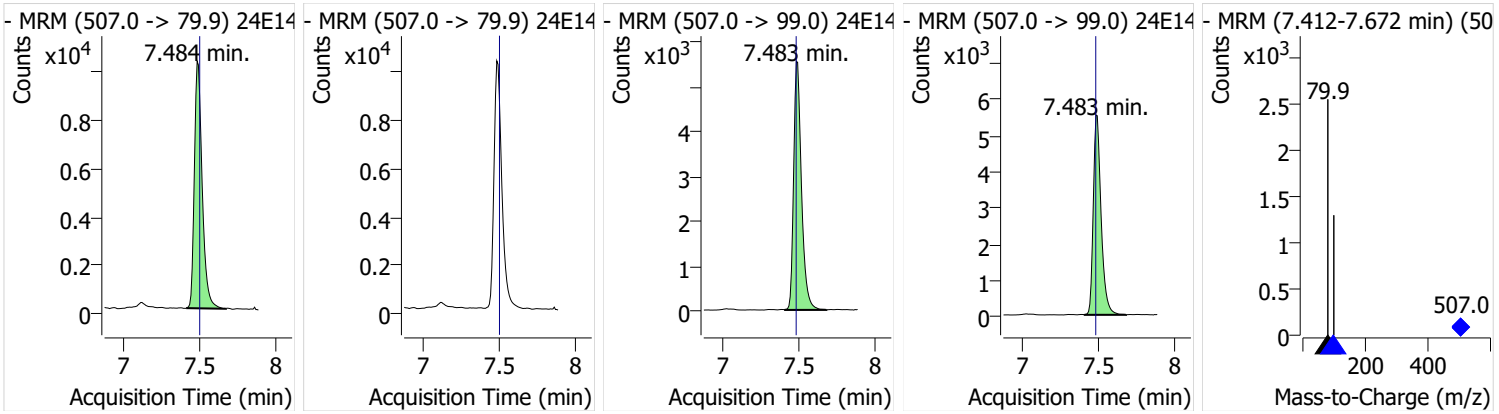
13C6-PFDA - ISTD

13C7-PFUnA - ISTD

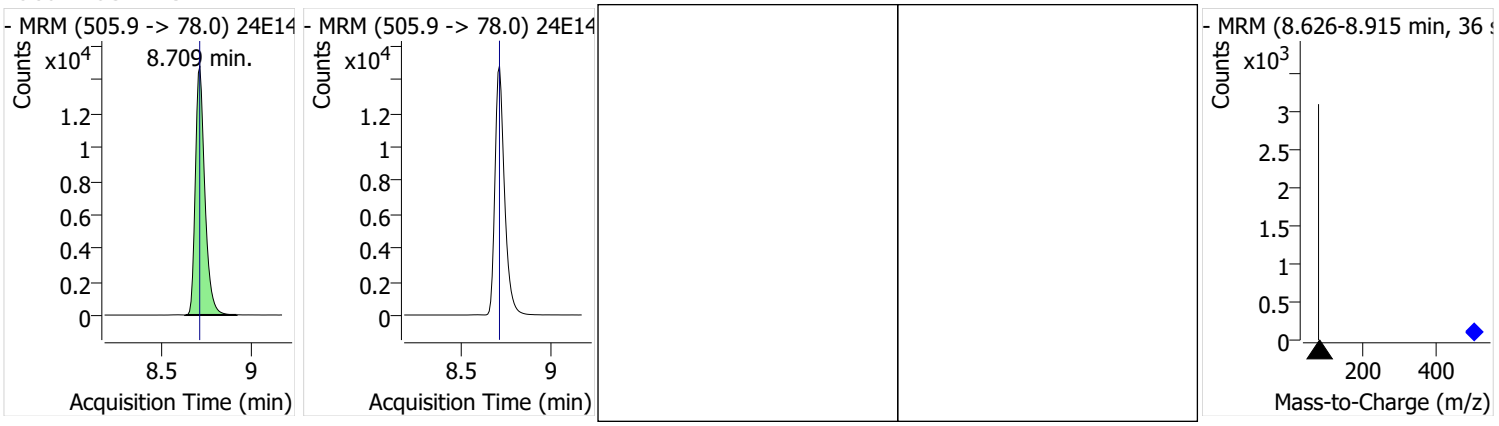
13C8-PFOA - ISTD



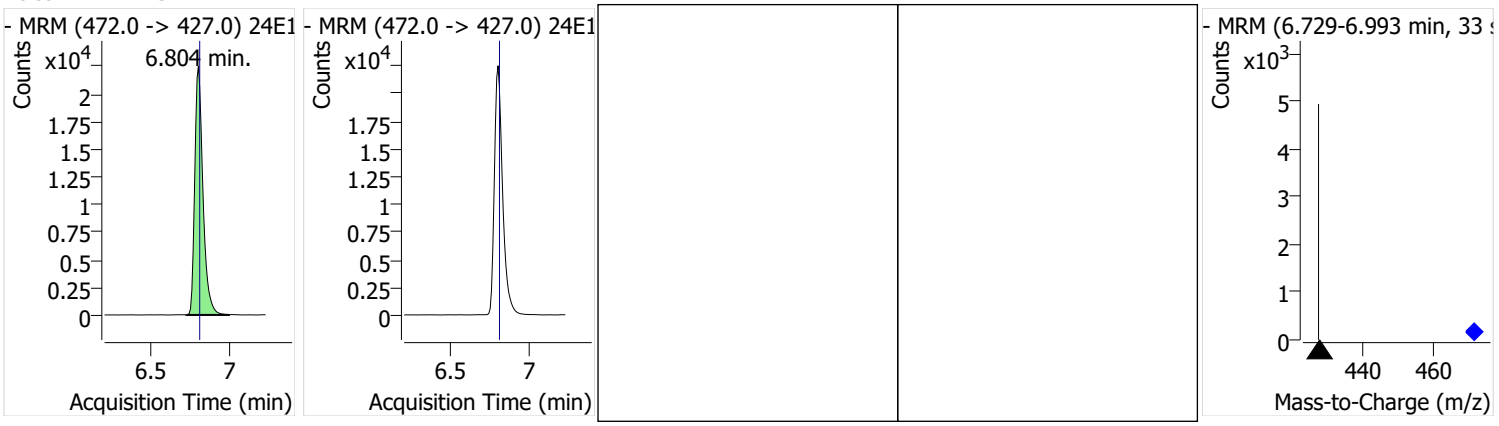
13C8-PFOS - ISTD



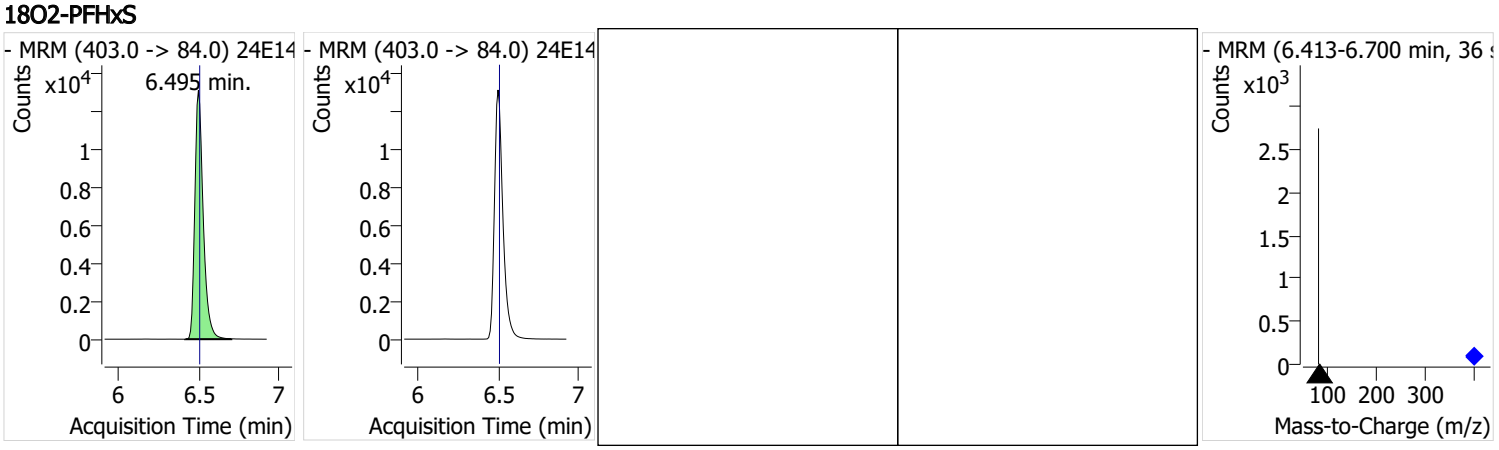
13C8-PFOSA - ISTD



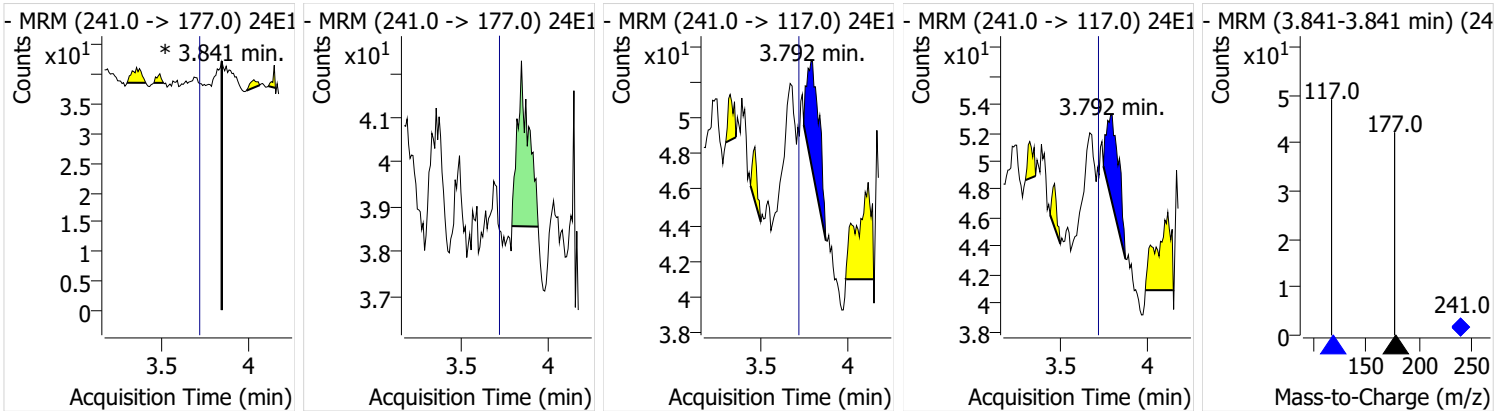
13C9-PFNA - ISTD



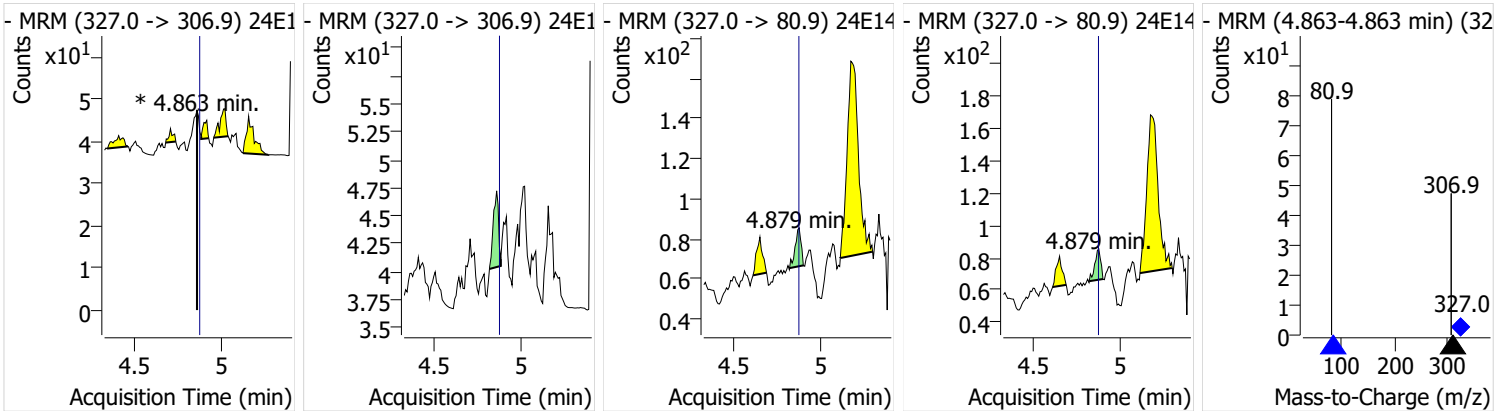
18O2-PFHxS



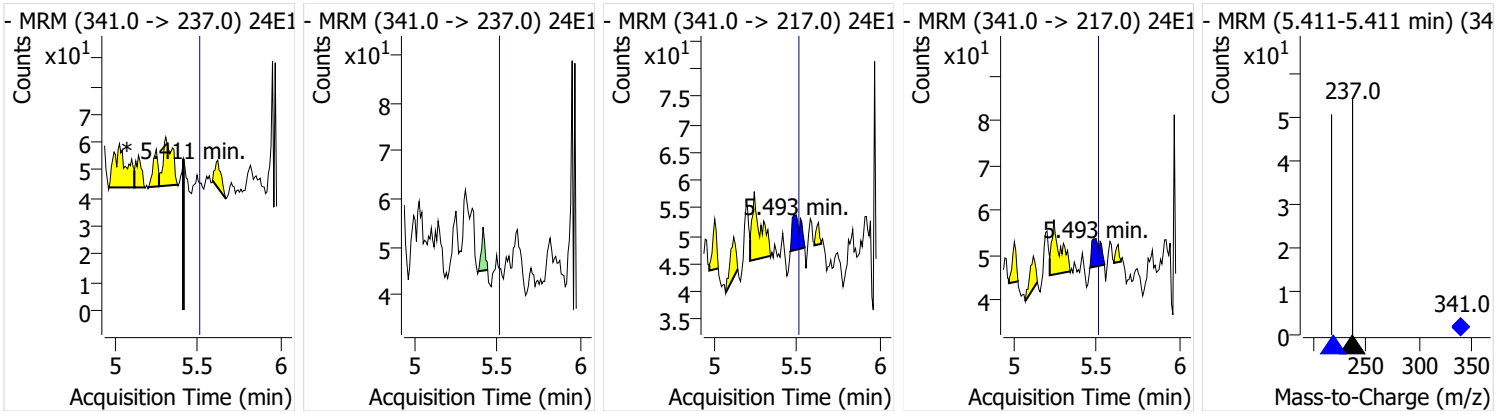
3:3FTCA



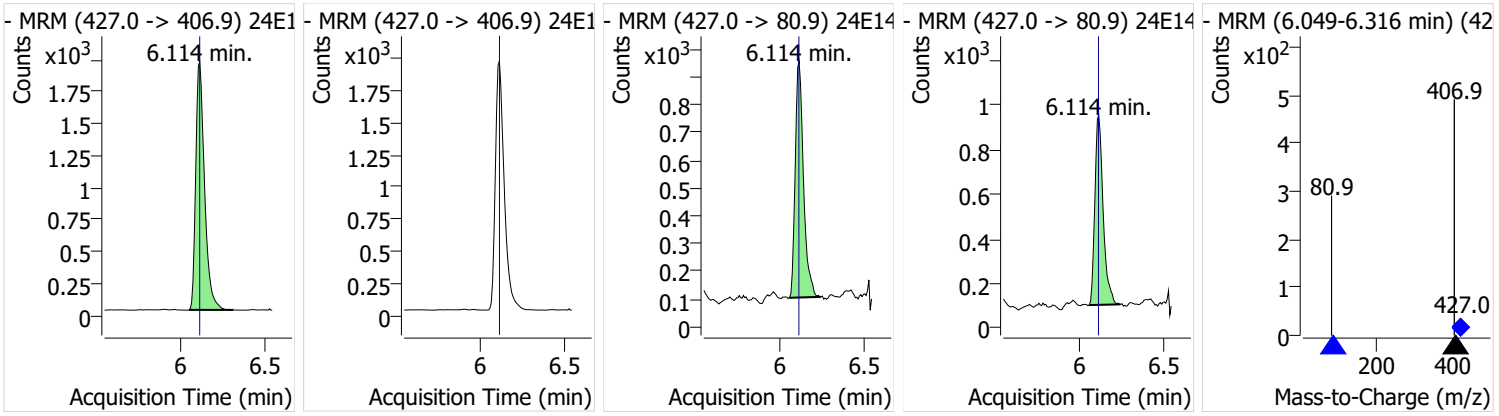
4:2FTS



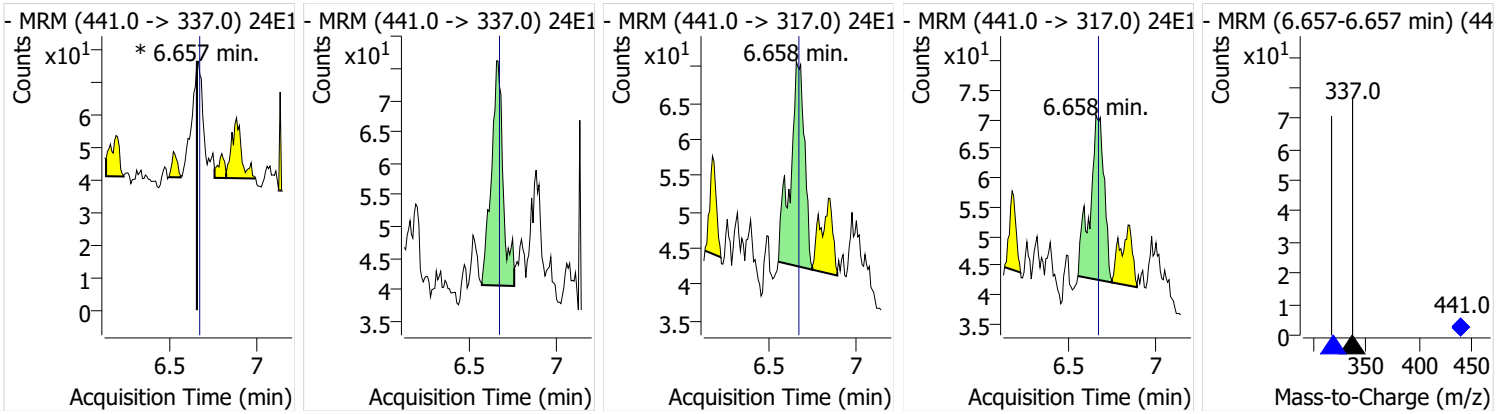
5:3FTCA



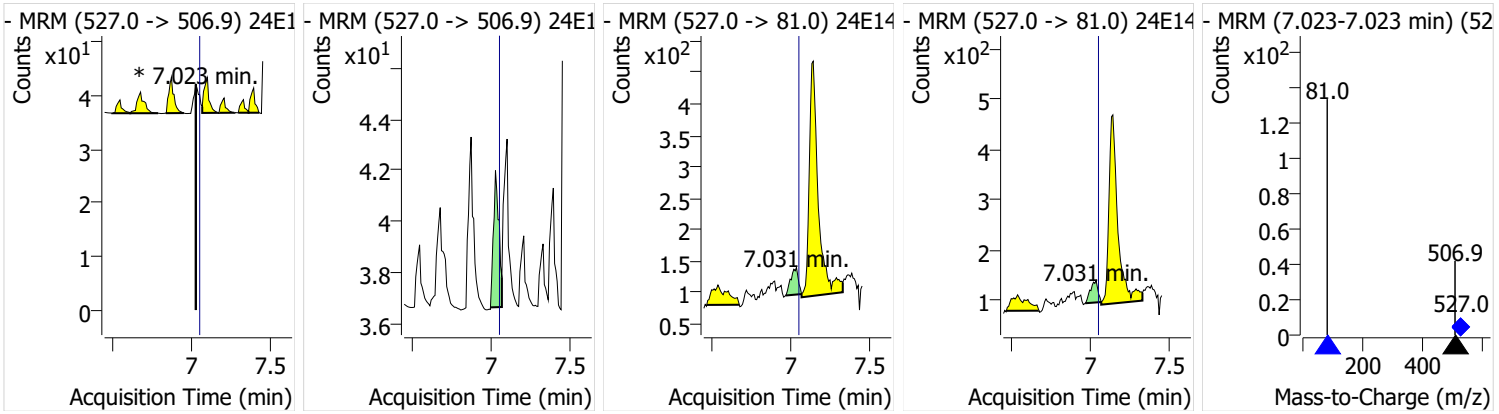
6:2FTS



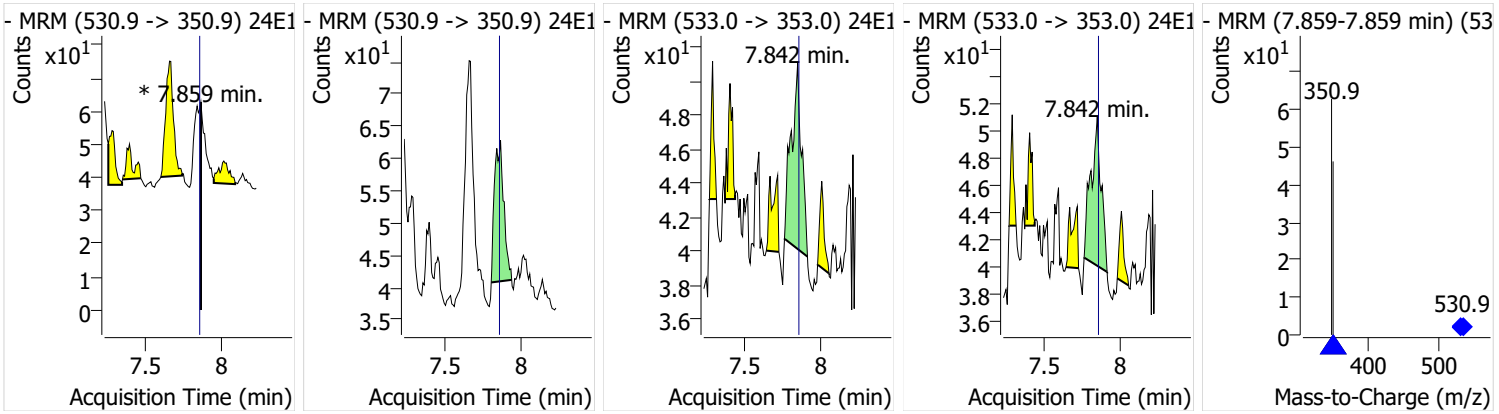
7:3FTCA



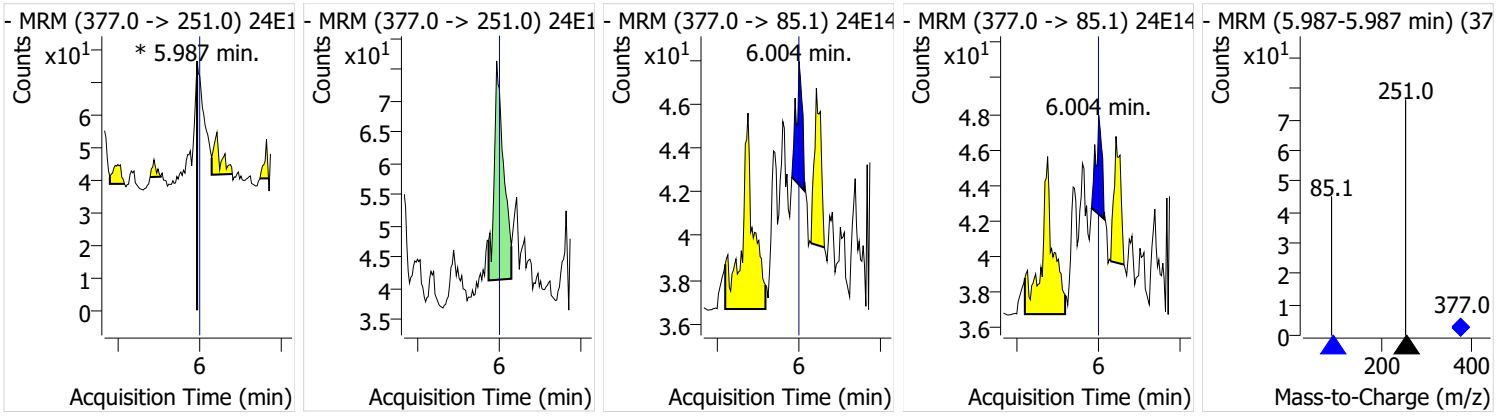
8:2FTS



9Cl-PF3ONS

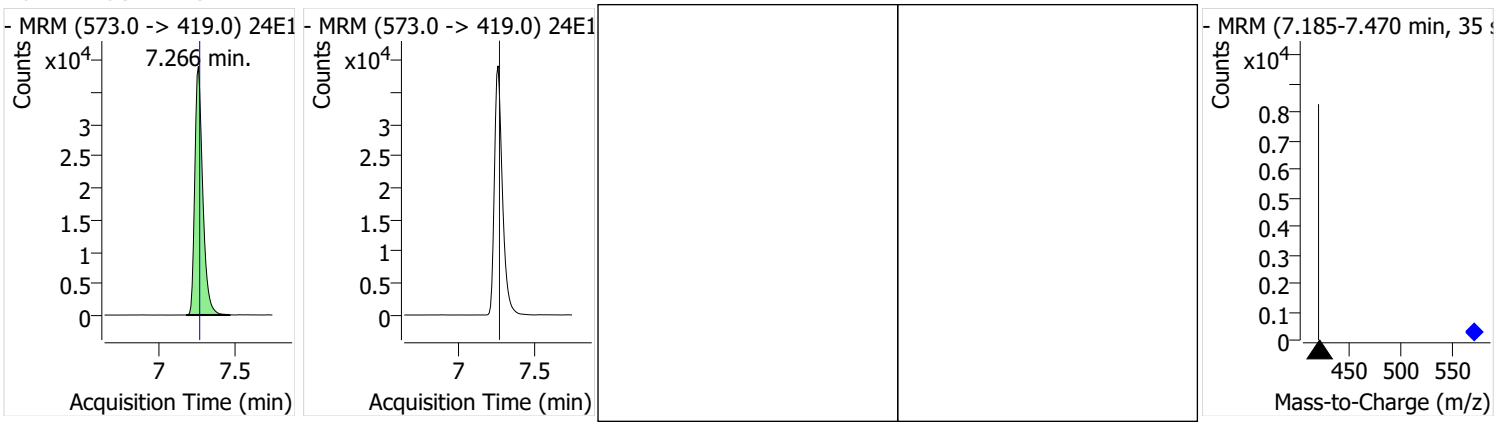


ADONA

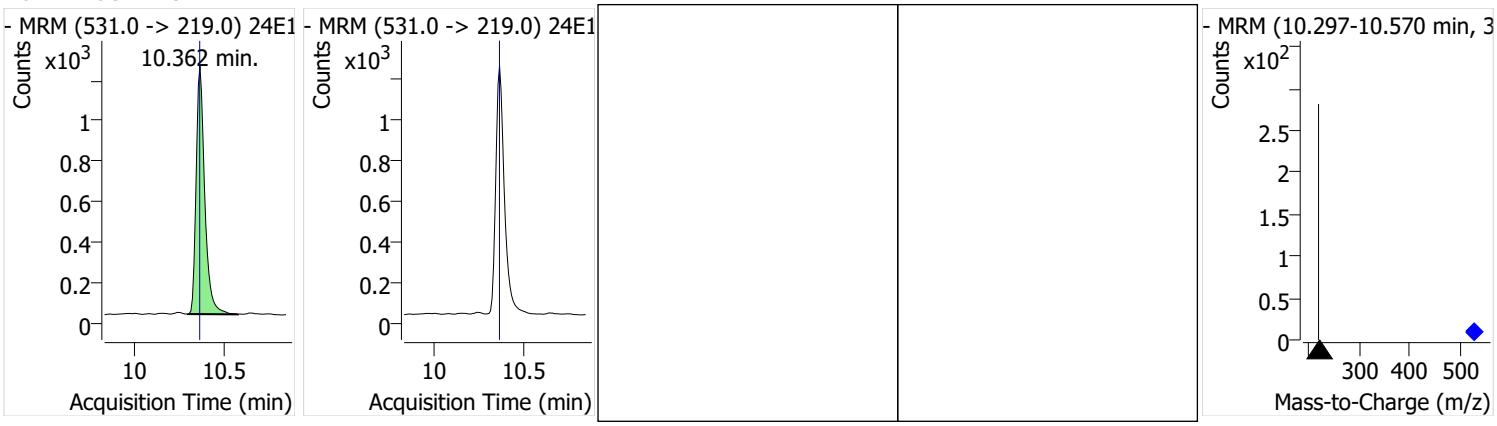


D3-NMeFOSA - ISTD

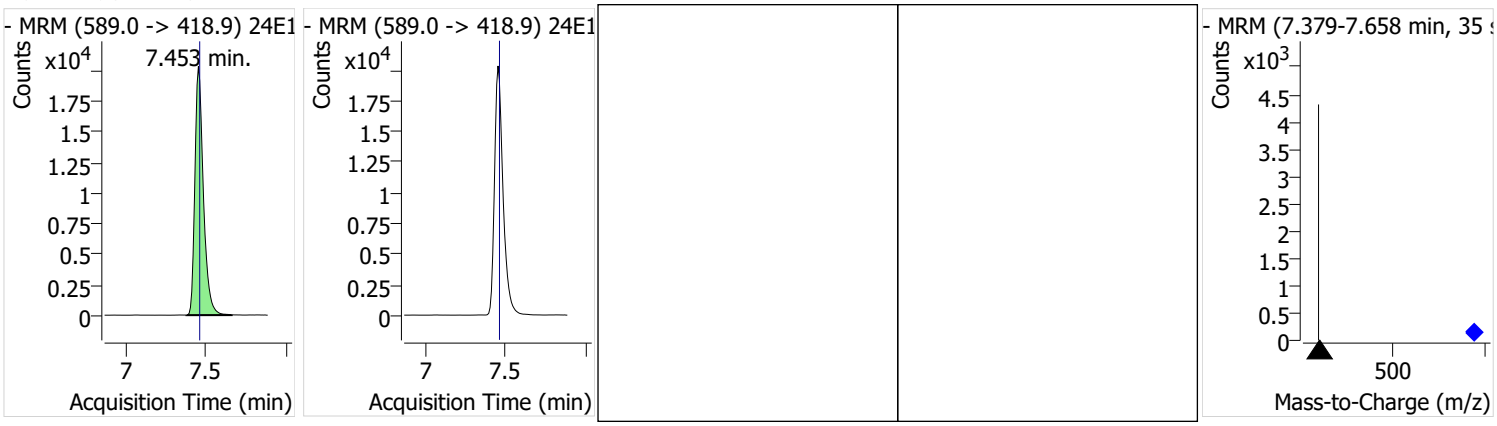
D3-NMeFOSAA - ISTD



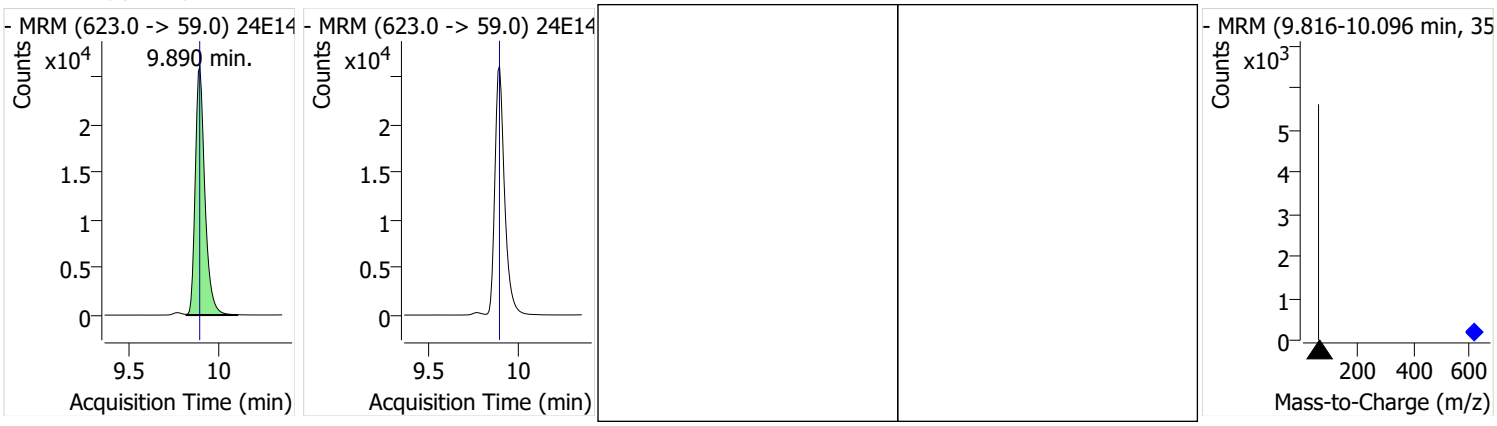
D5-NEtFOSA - ISTD



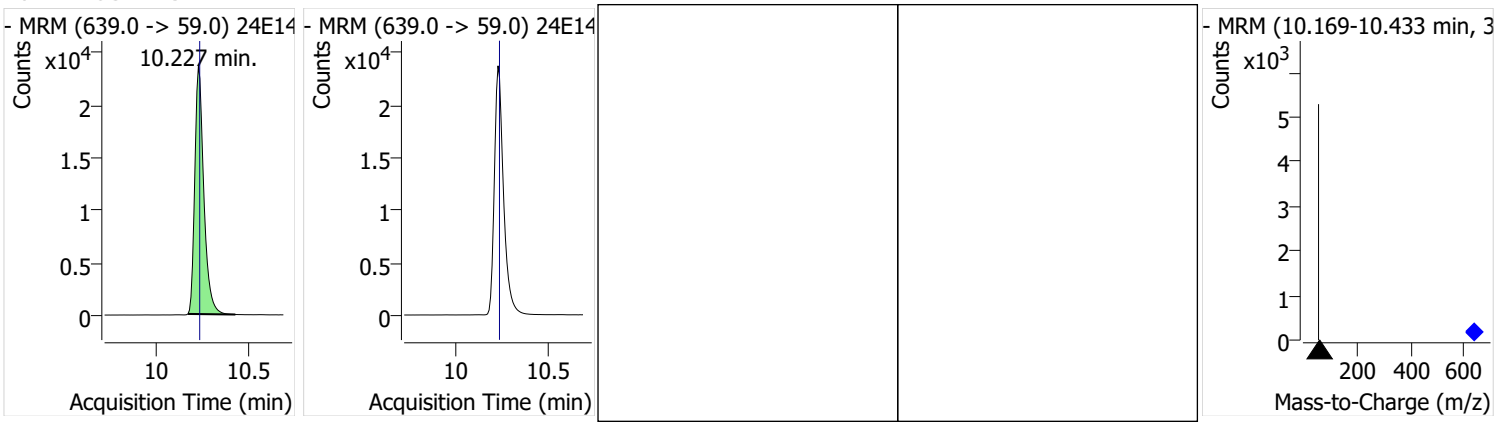
D5-NEtFOSAA - ISTD



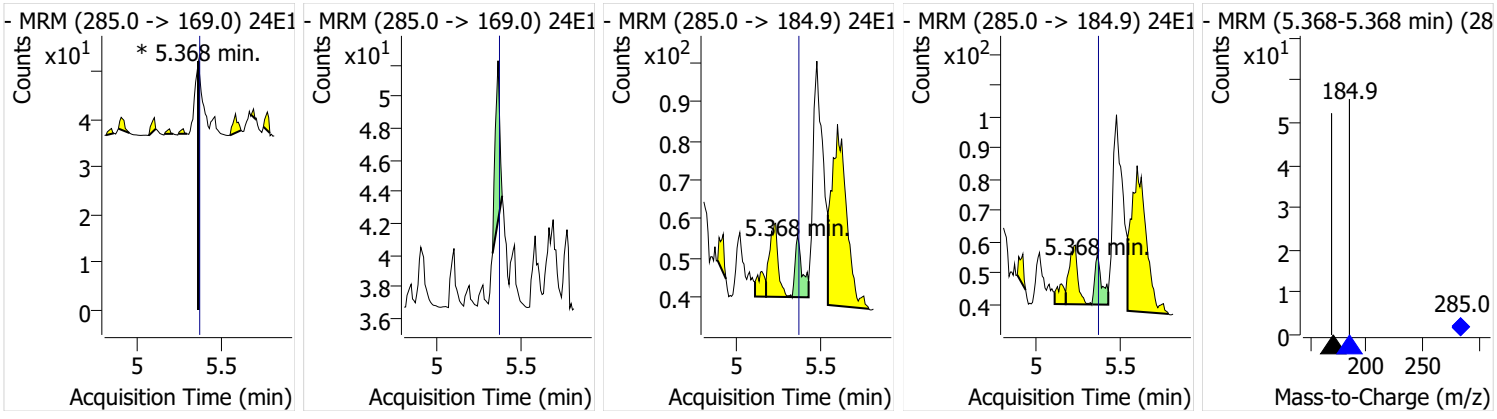
D7-NMeFOSE - ISTD



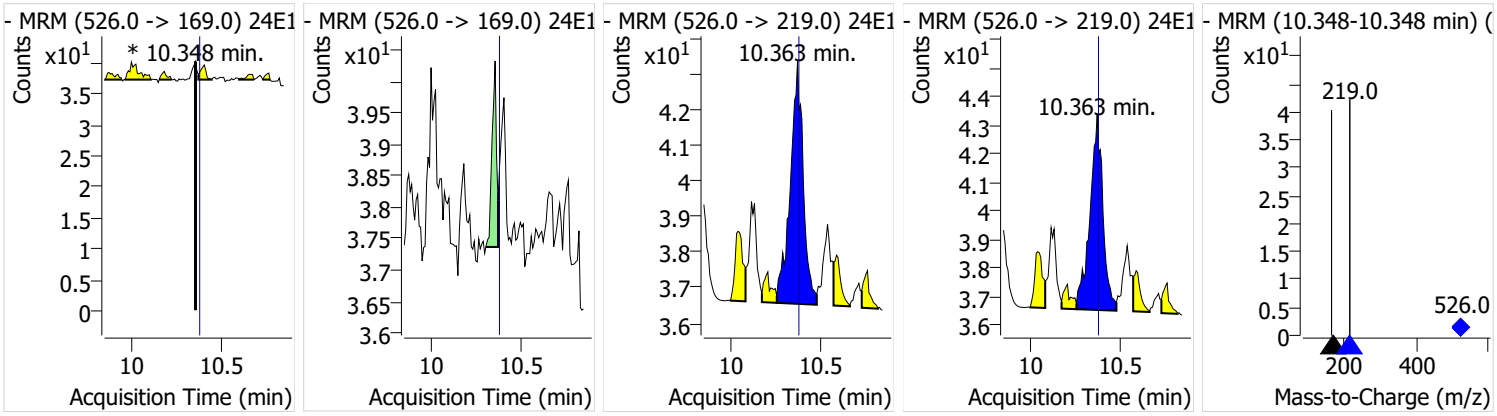
D9-NEtFOSE - ISTD



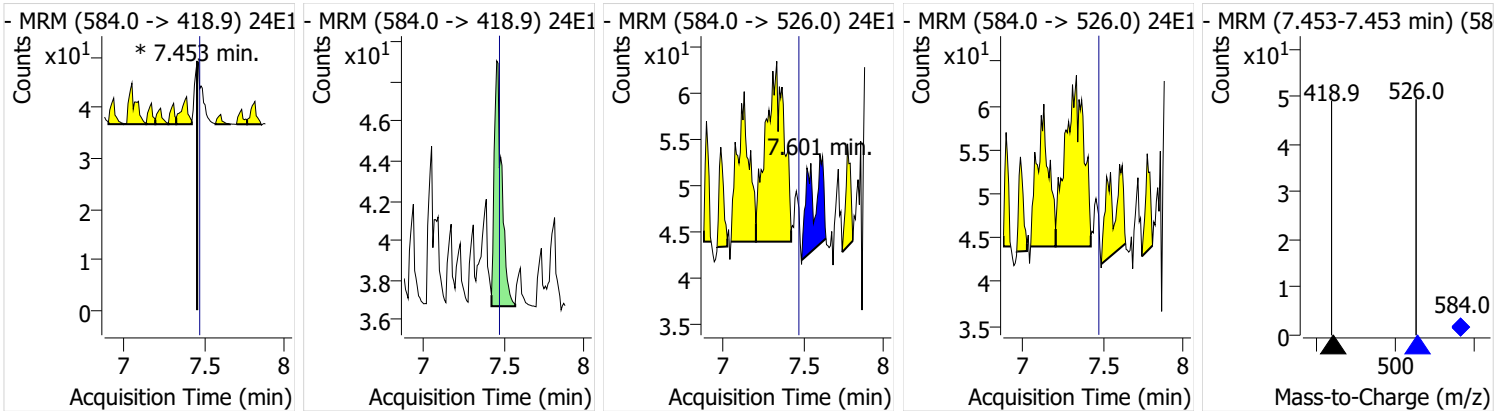
HFPO-DA



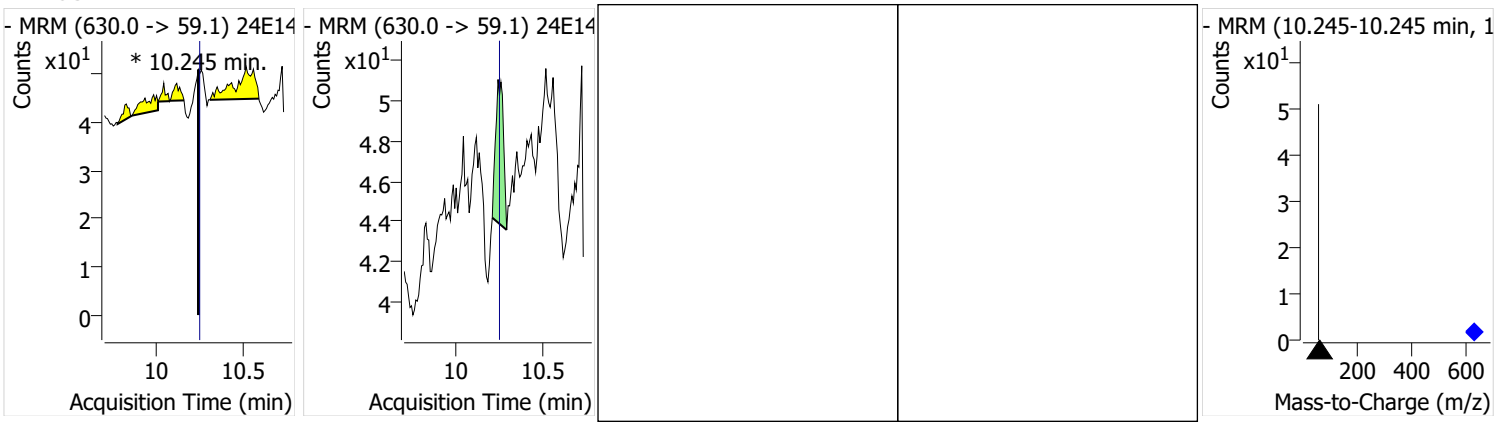
NEtFOSA



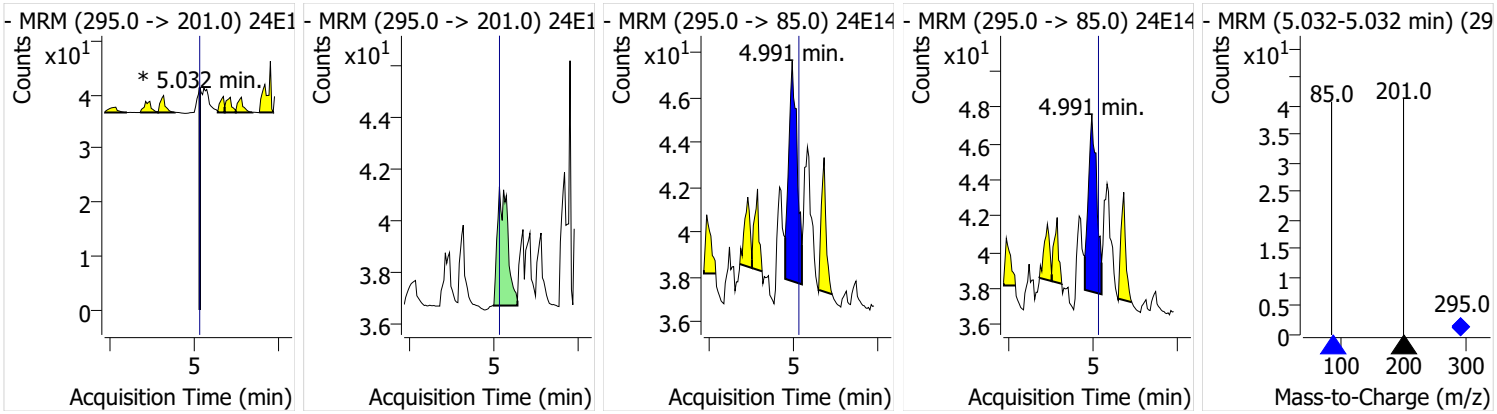
NEtFOSAA



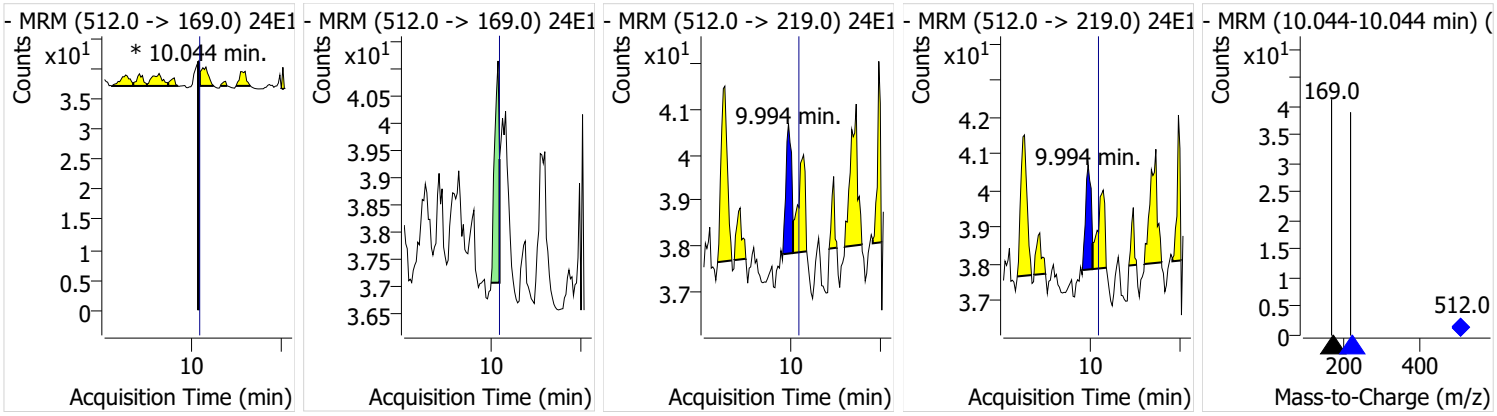
NEtFOSE



NFDHA



NMeFOSA



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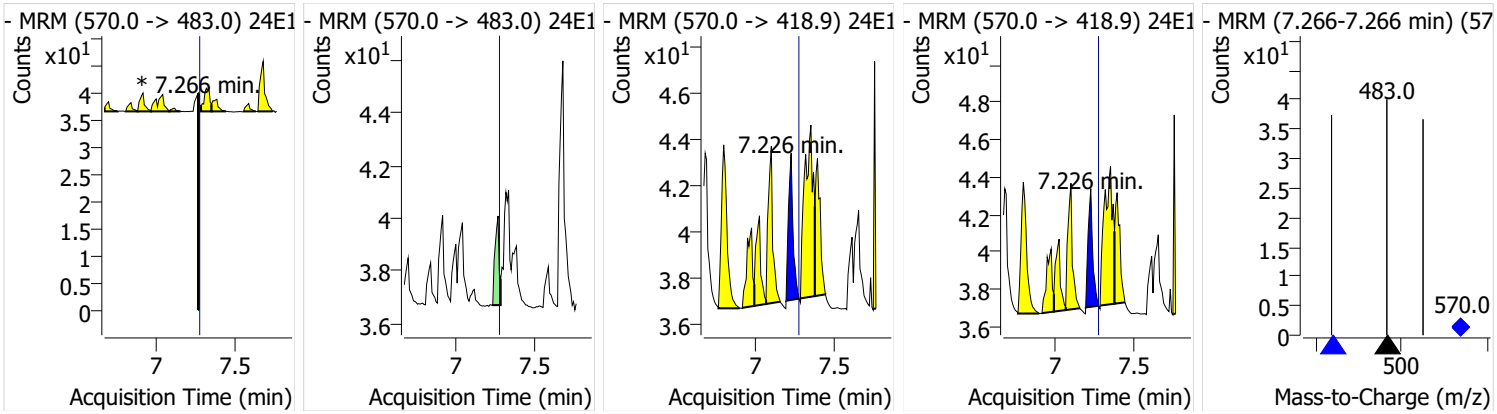
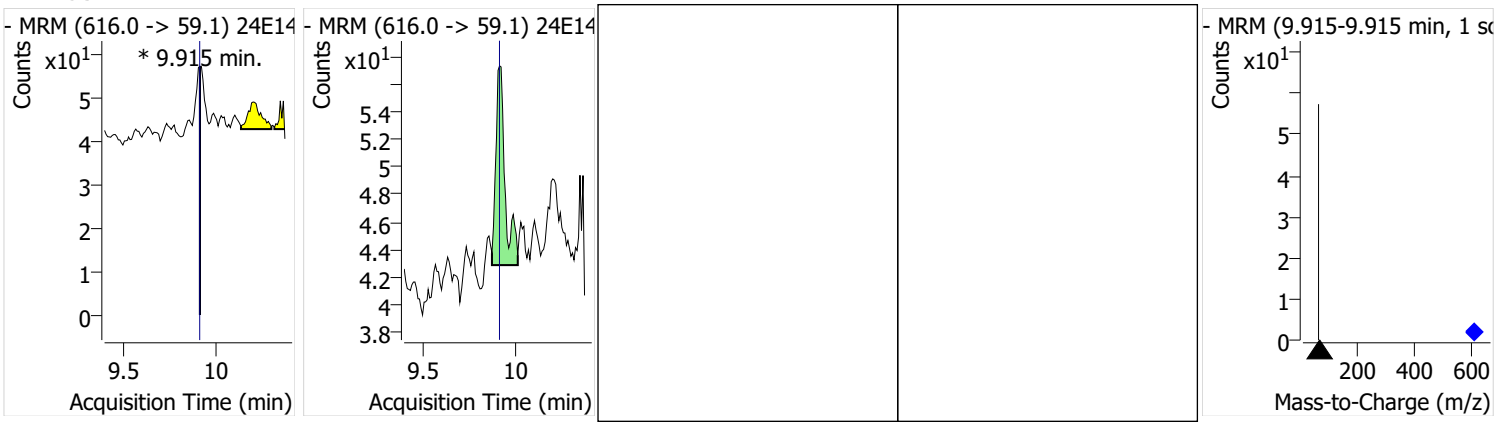
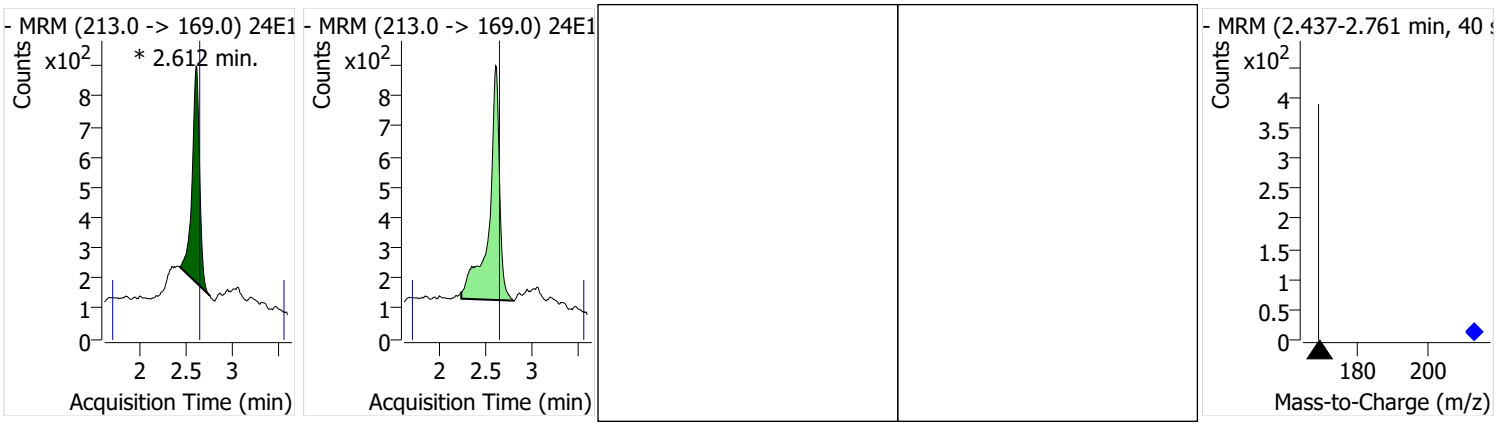


NMeFOSE



PFBA



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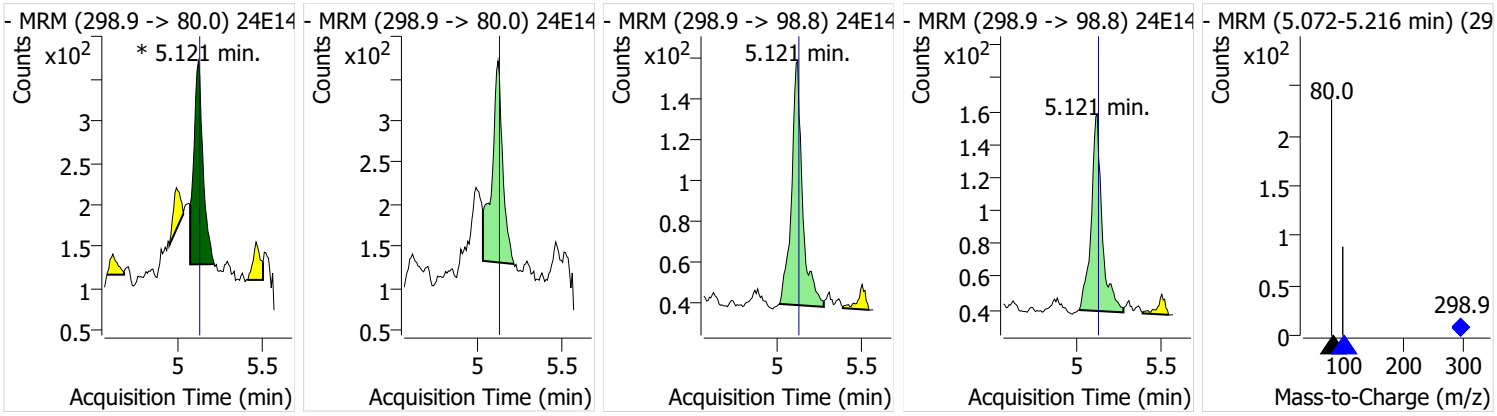

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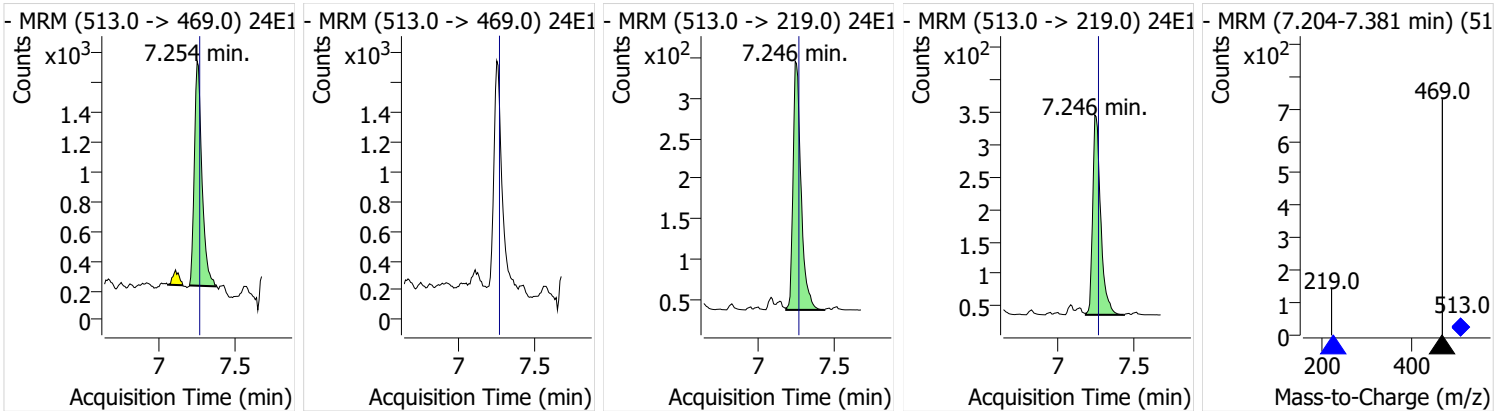
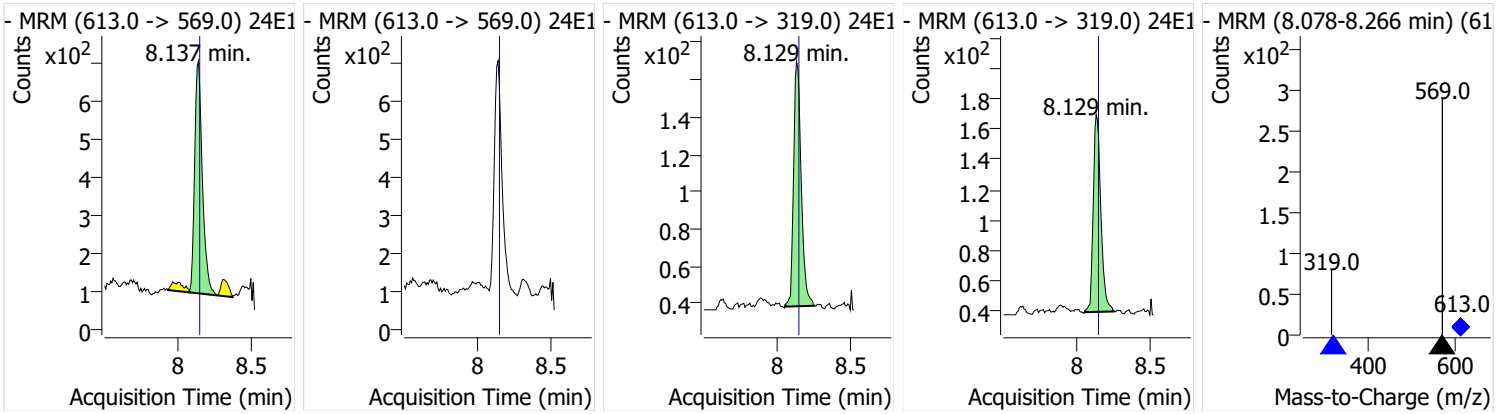


PFDoA



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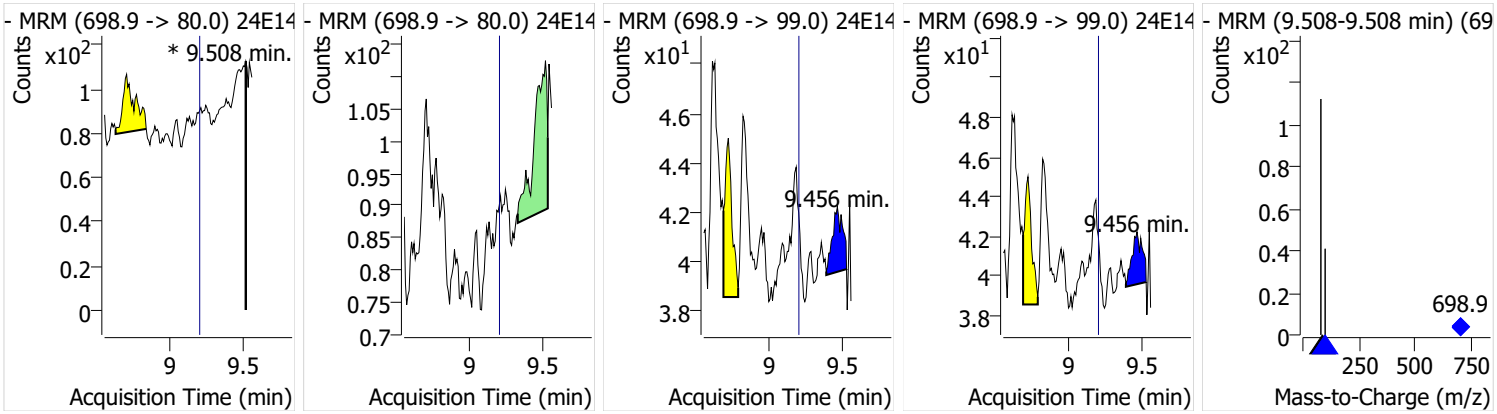

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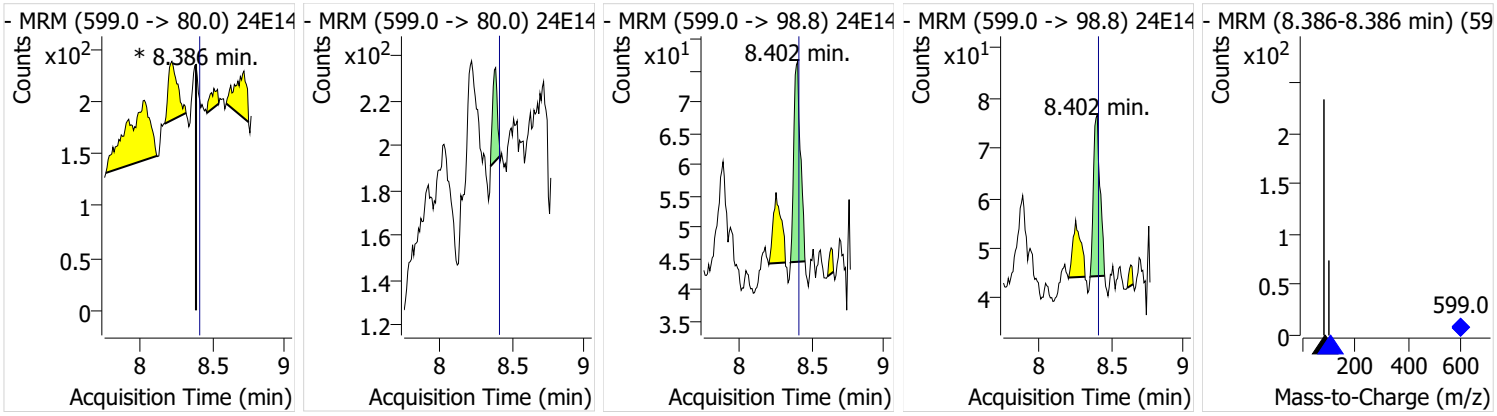

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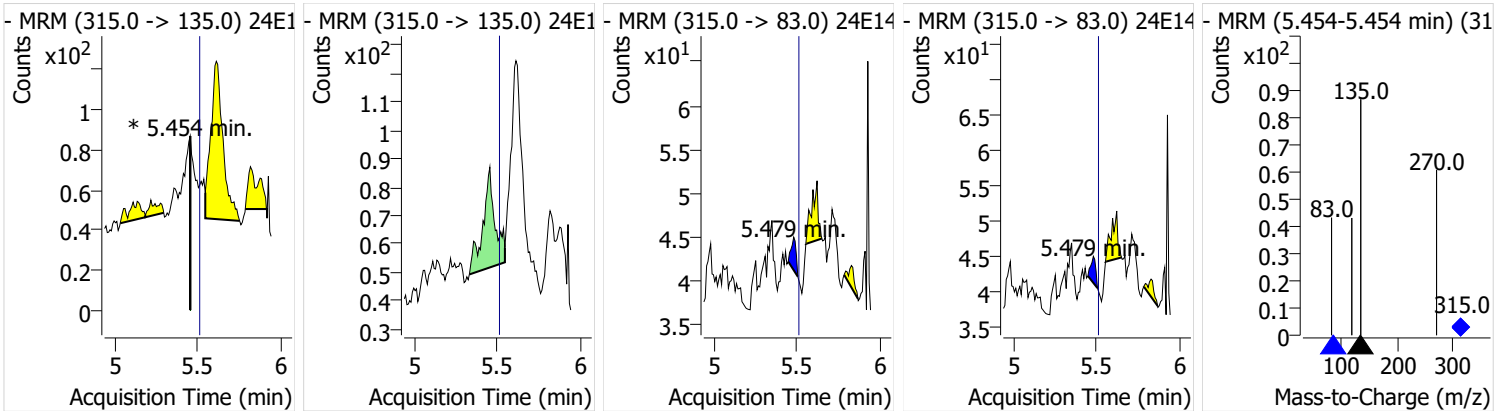

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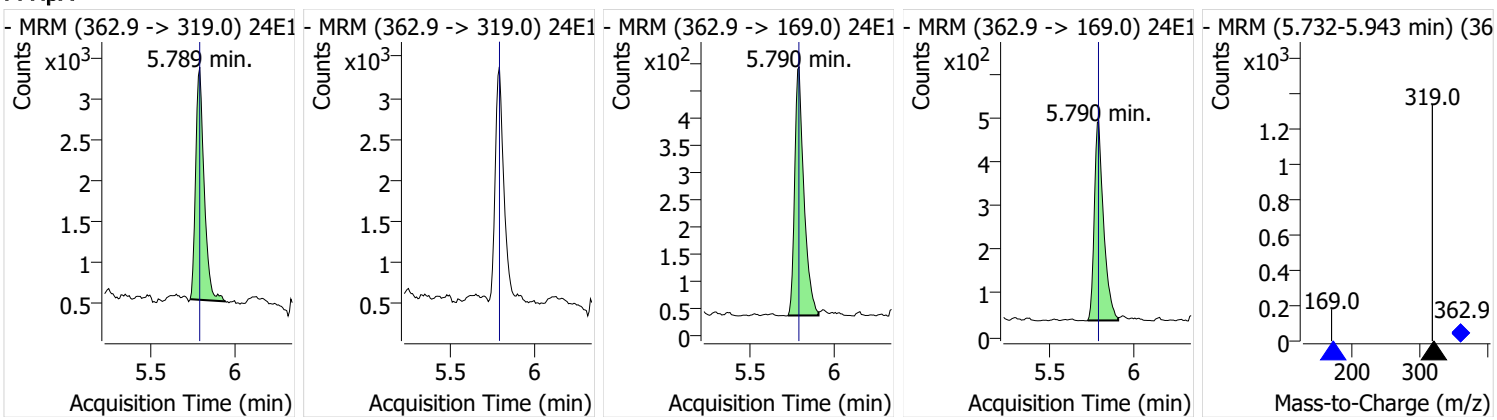

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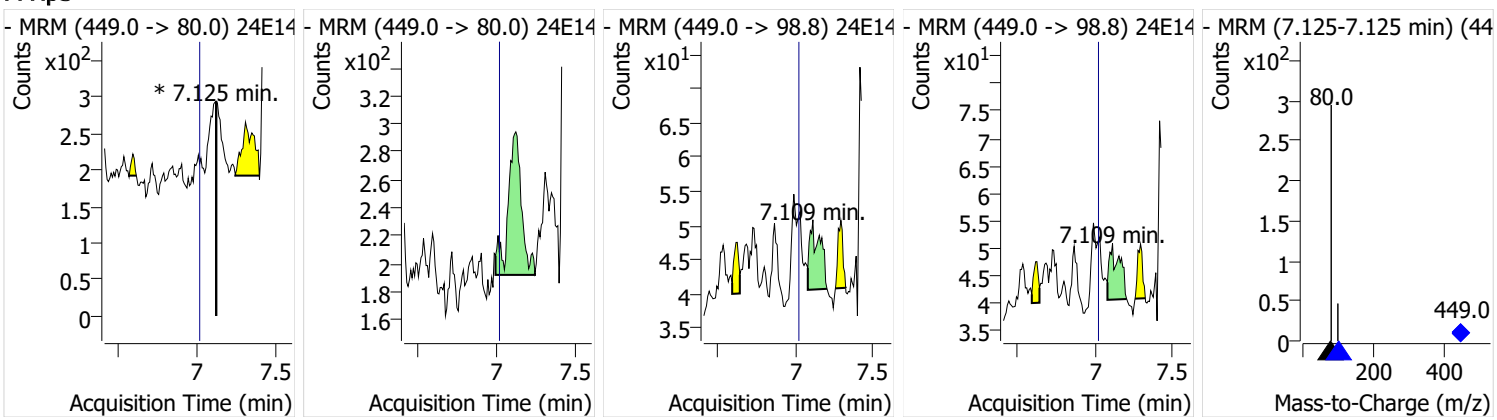

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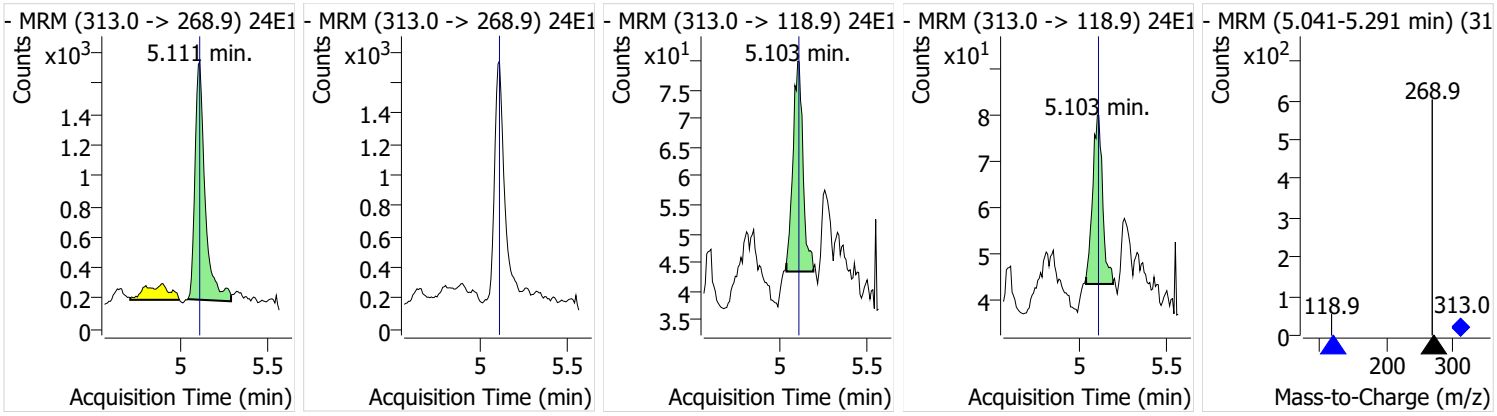
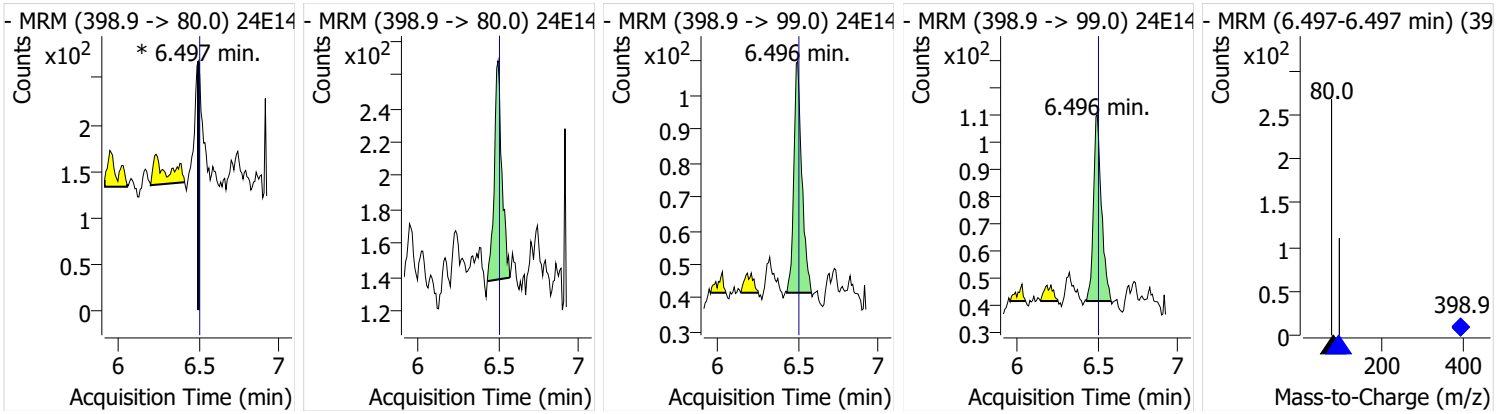


PFHxS



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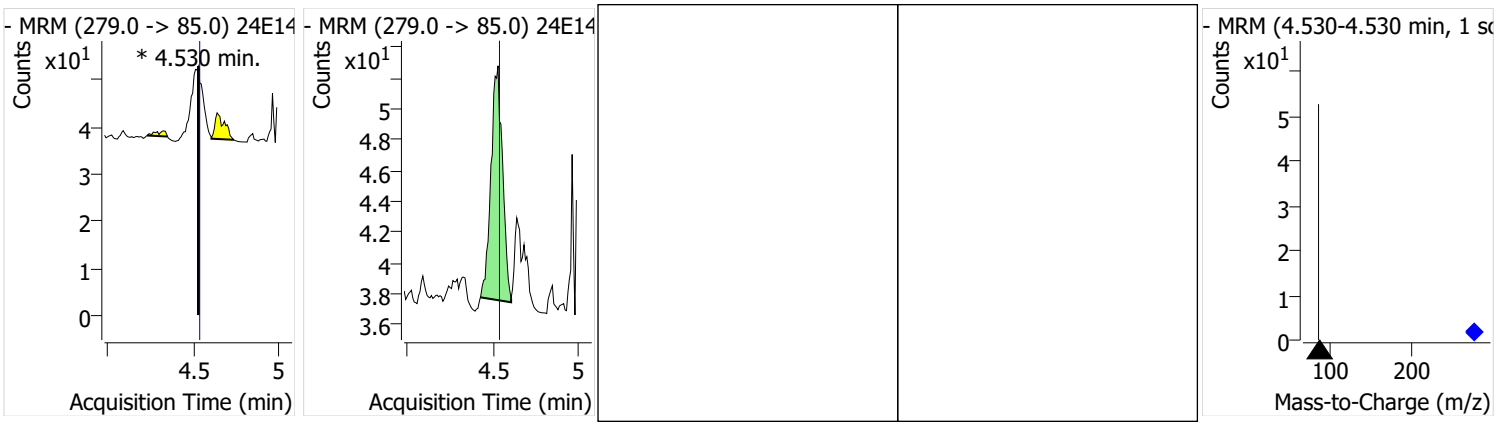

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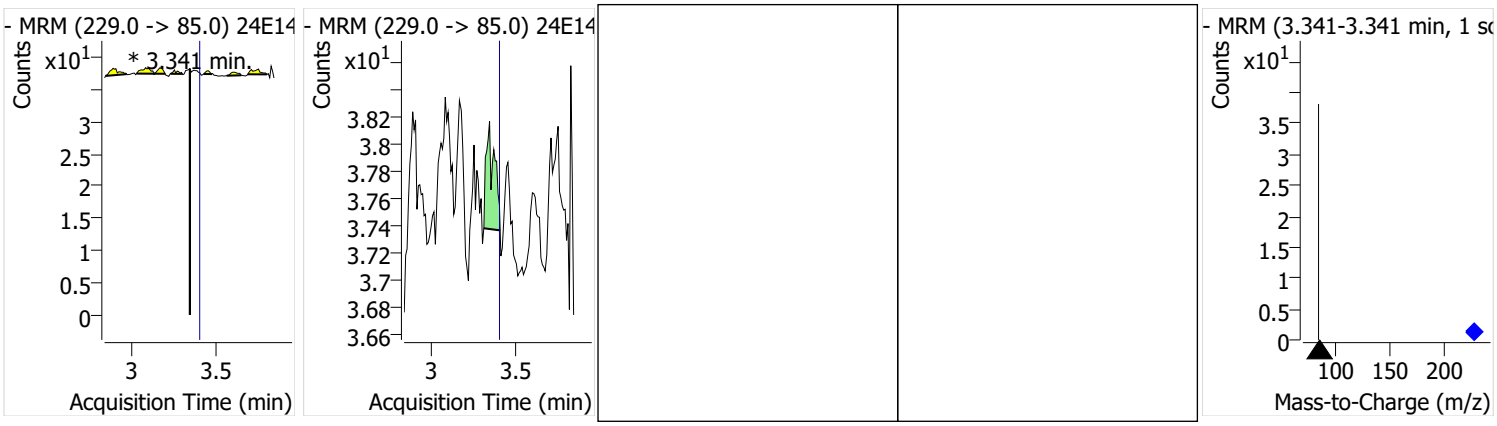

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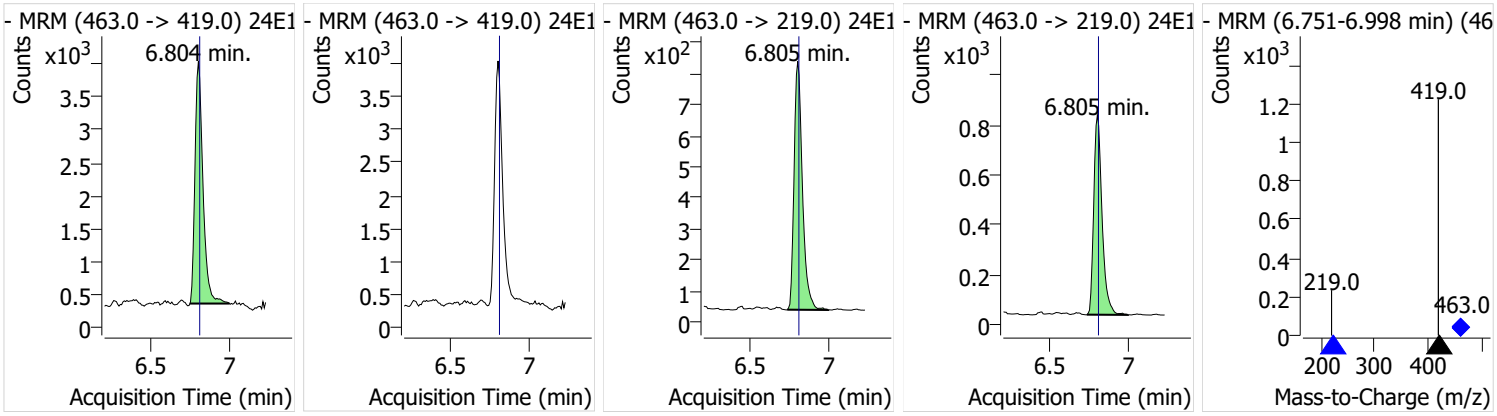
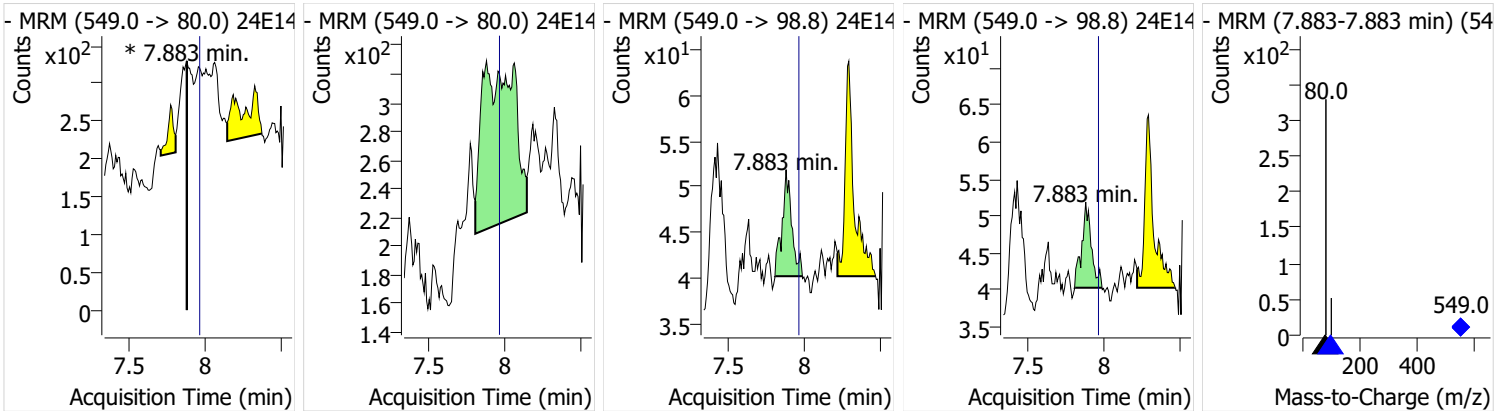
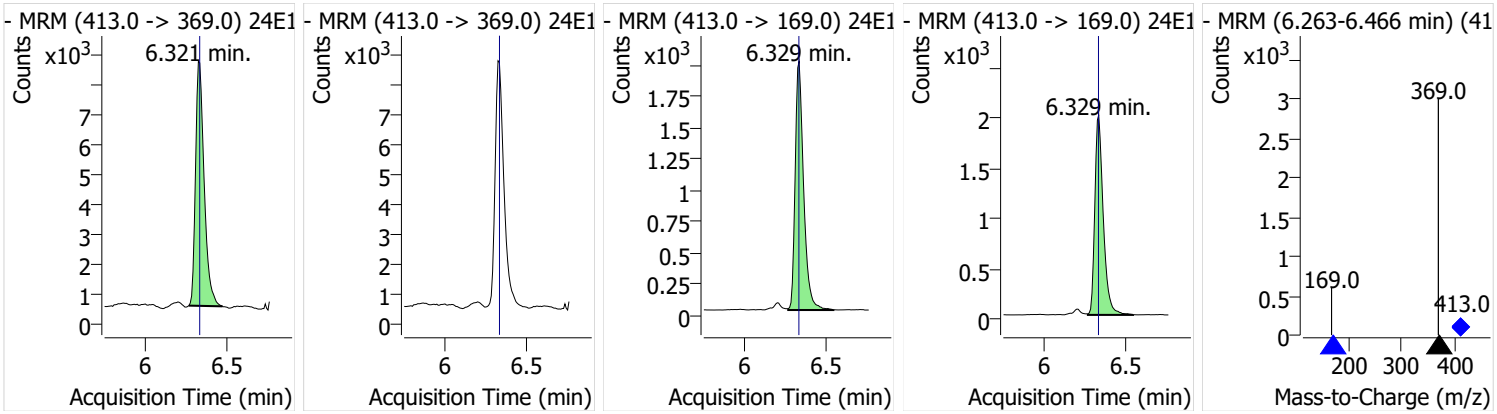


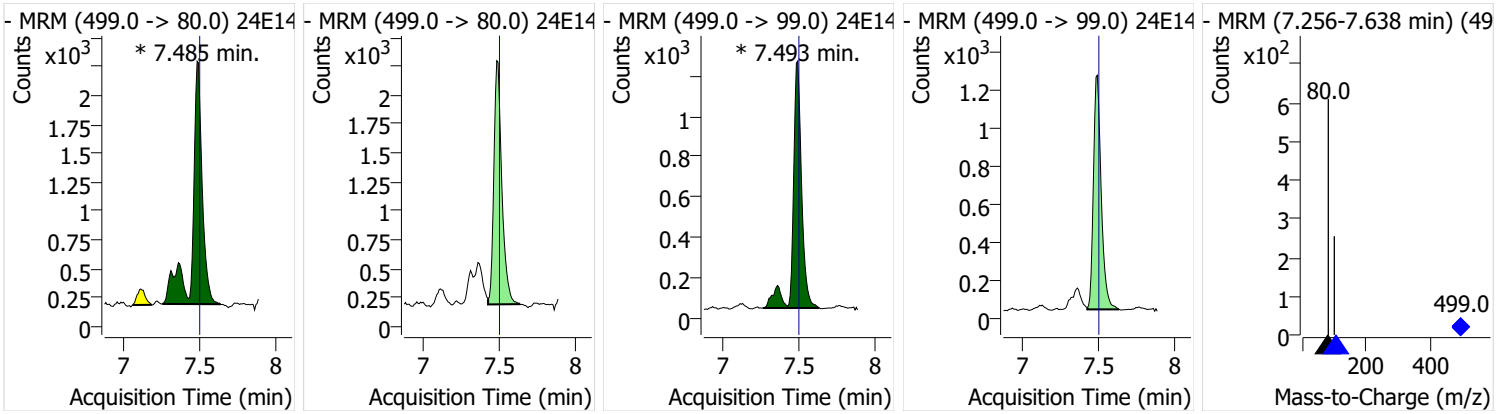
PFNS



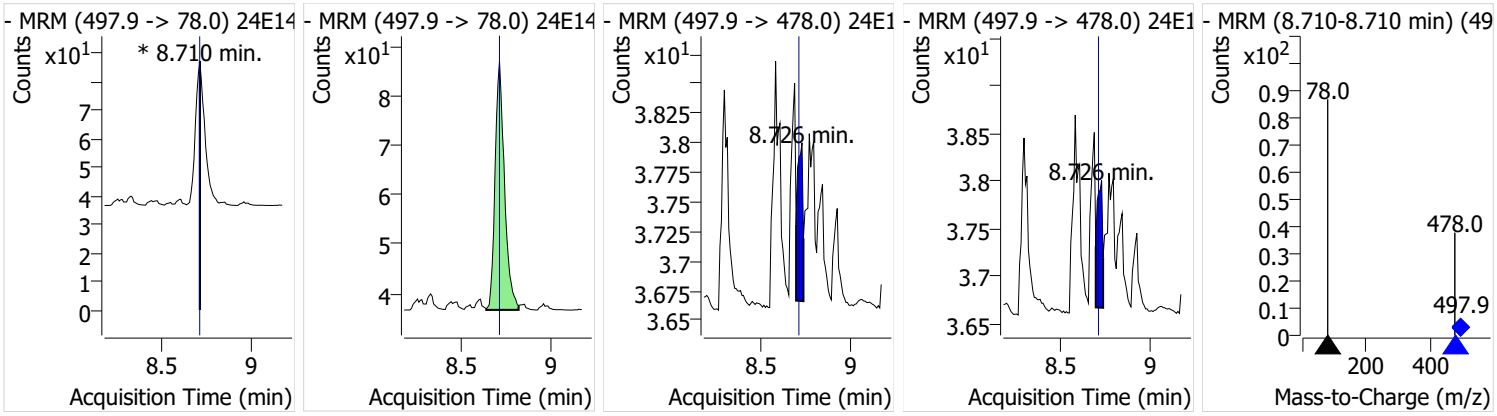
PFOA



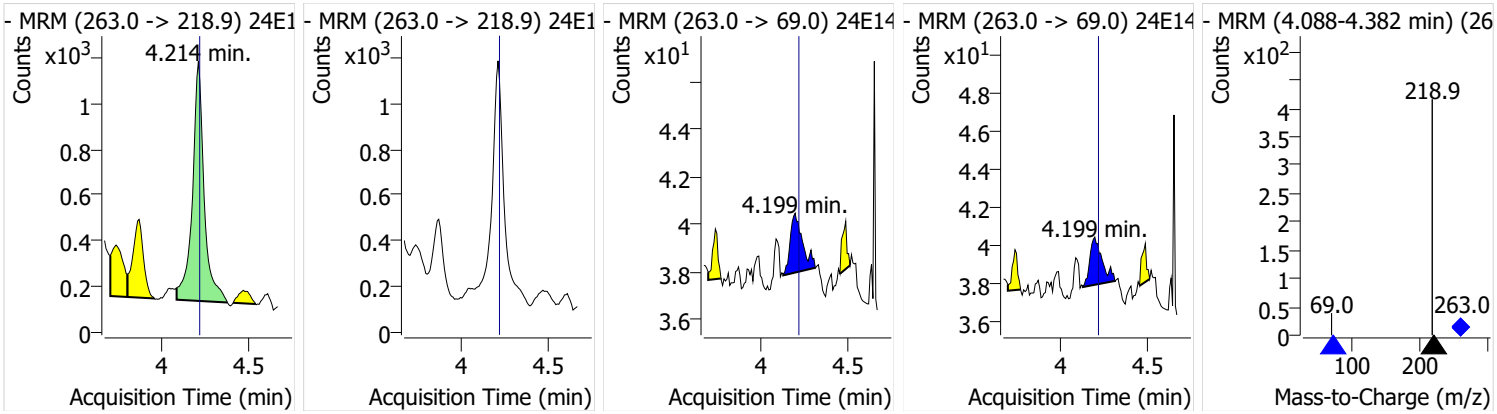
PFOS



PFOSA



PFPeA



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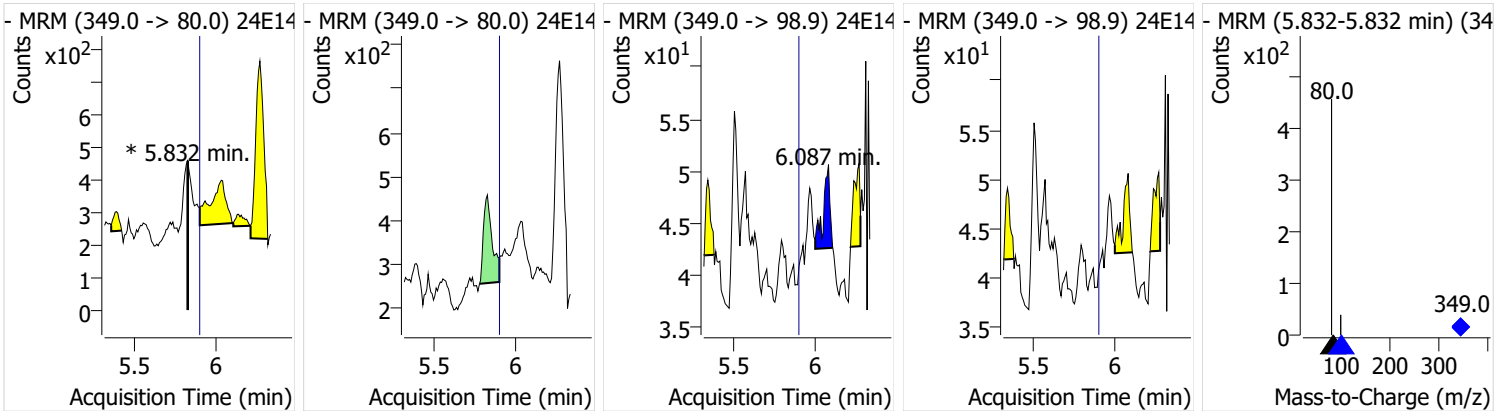

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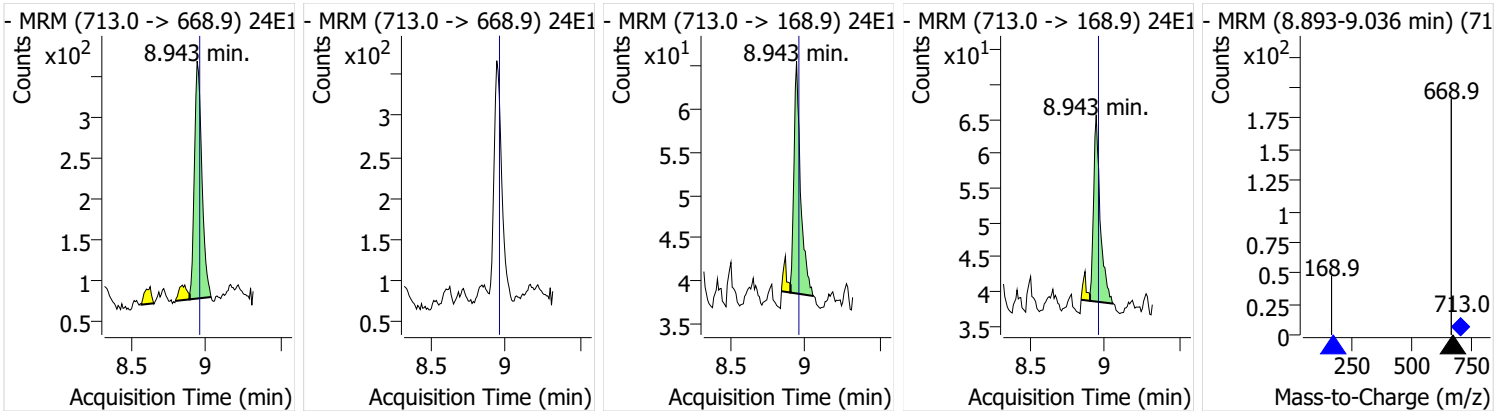

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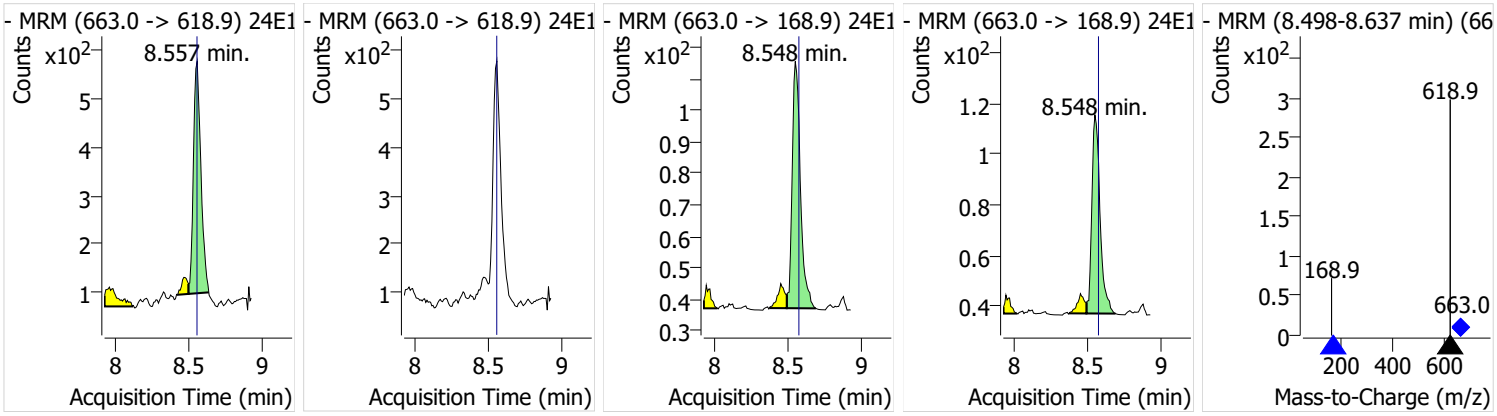
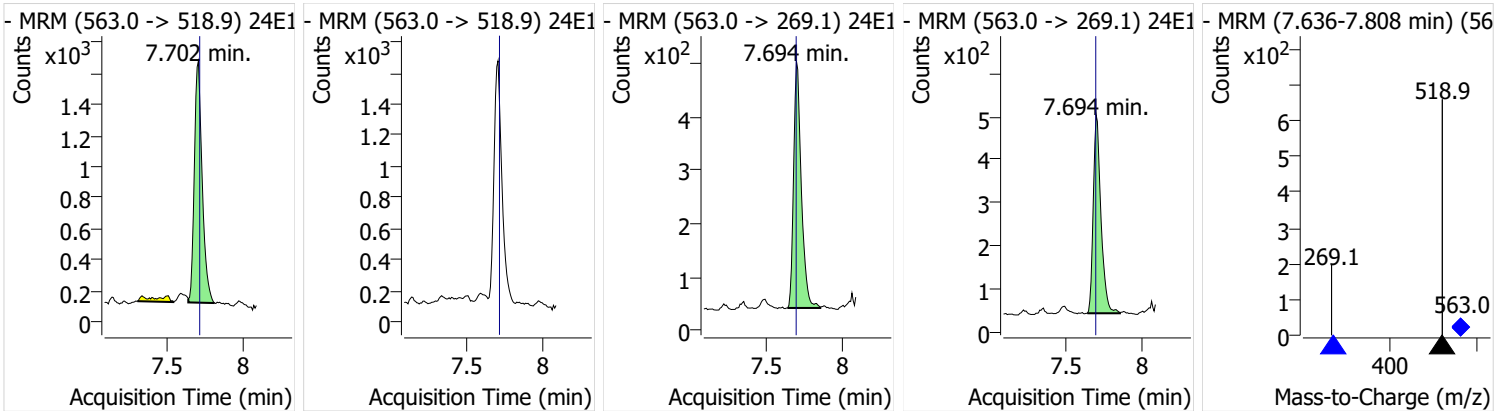
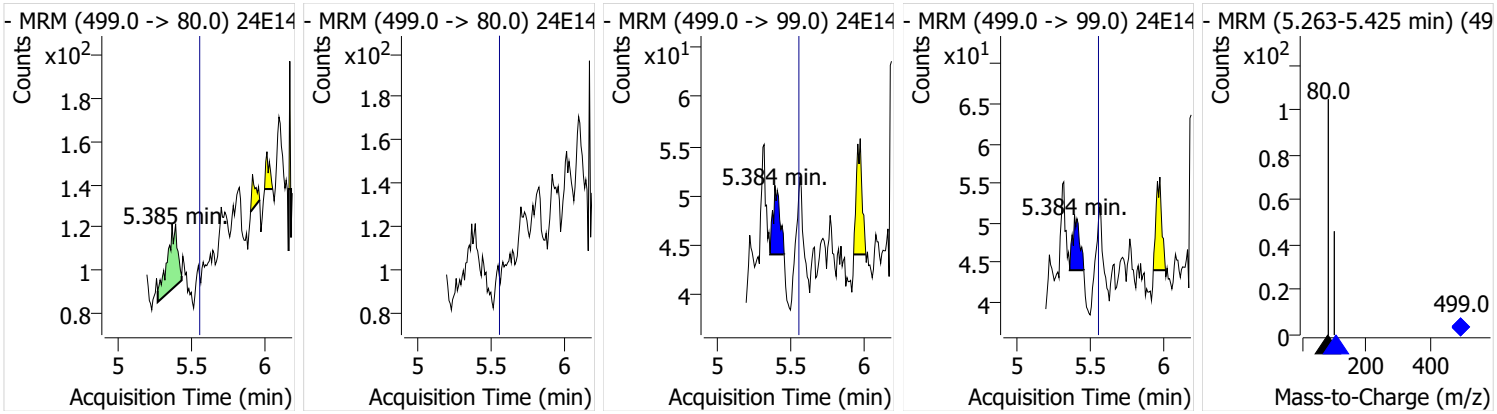


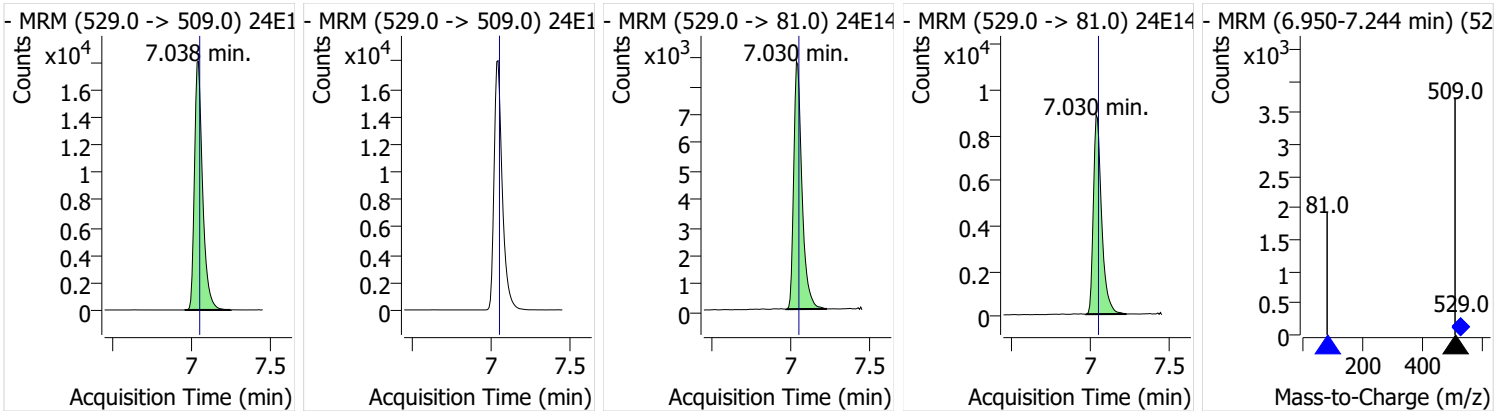
PFUnA



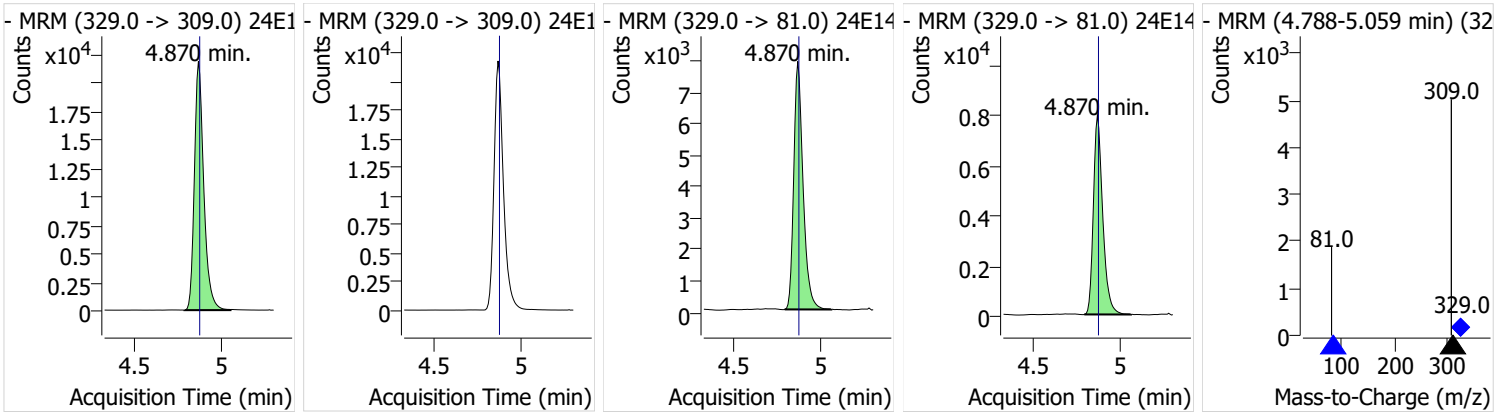
TDCA



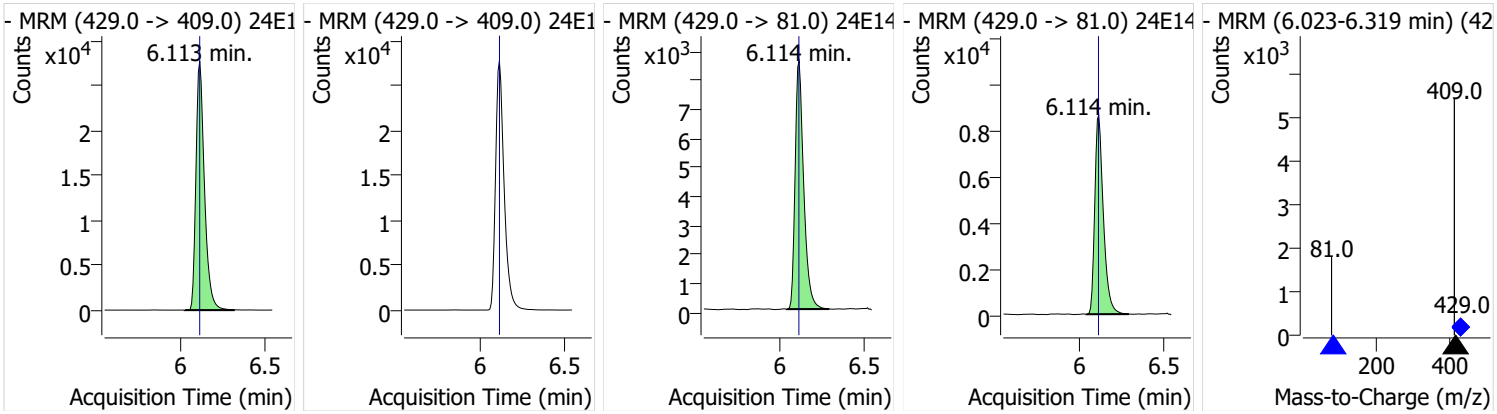
13C2-8:2FTS



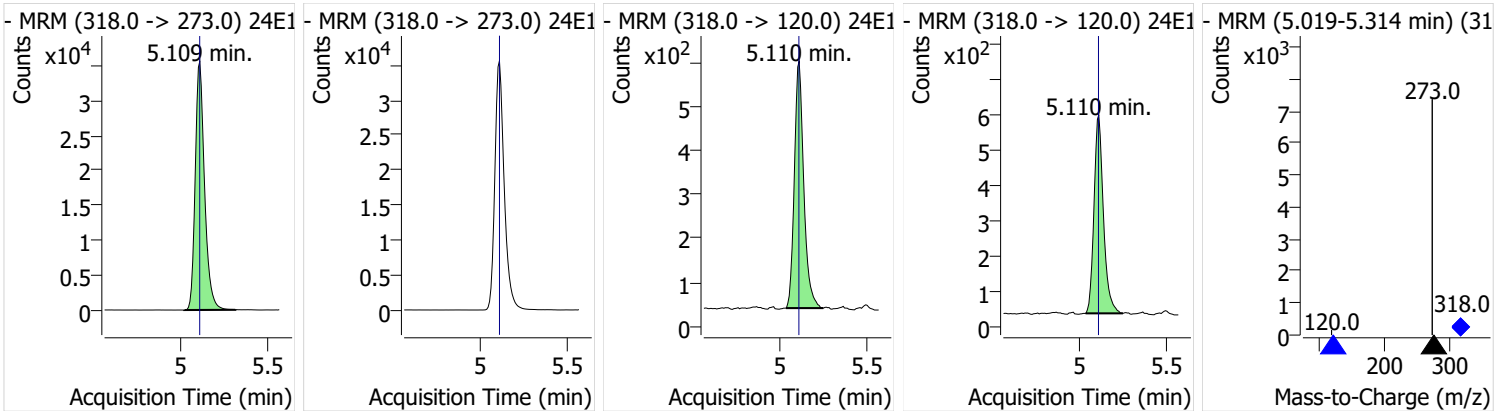
13C2-4:2FTS



13C2-6:2FTS

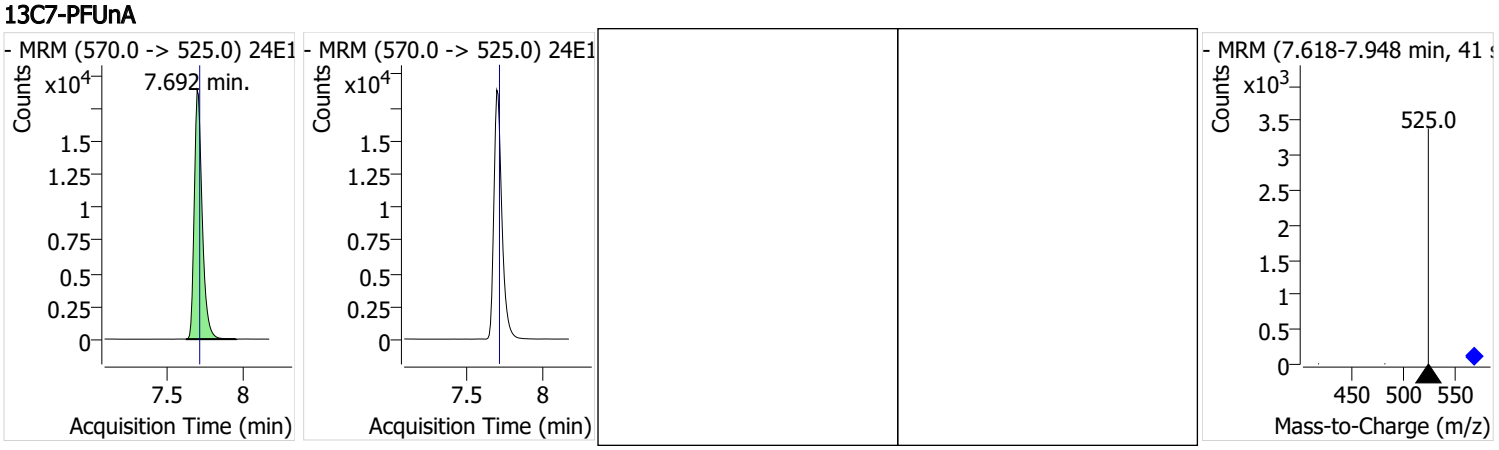


13C5-PFHxA



13C6-PFDA

13C7-PFUnA



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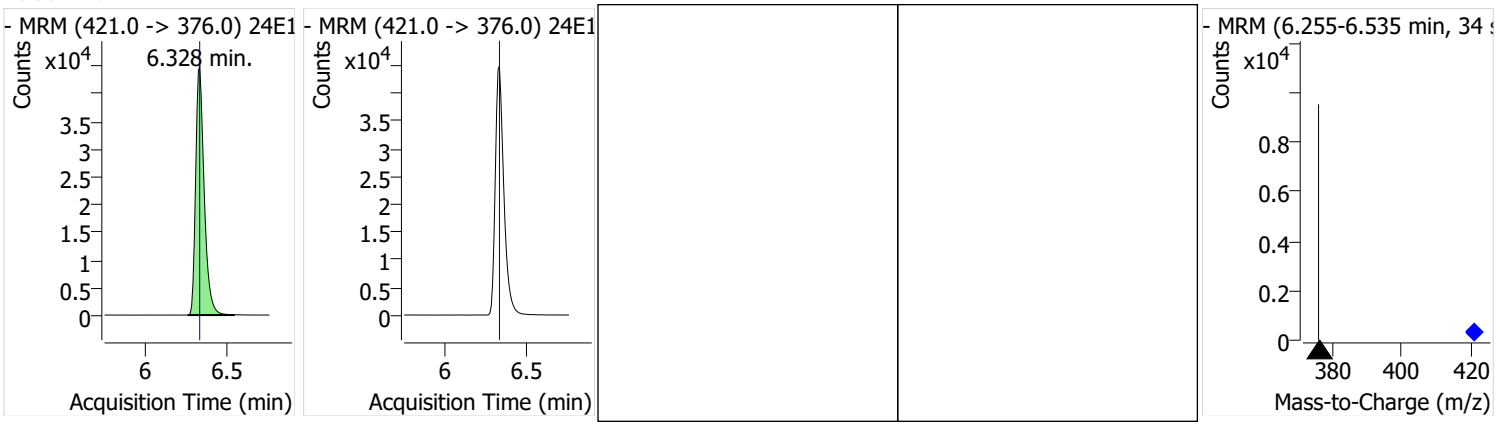
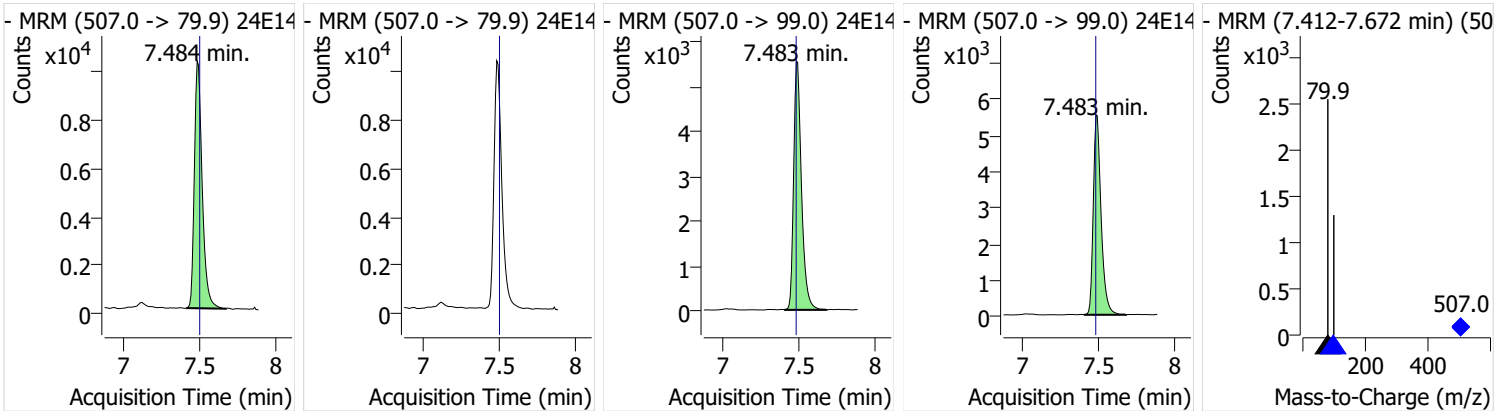


13C8-PFOS



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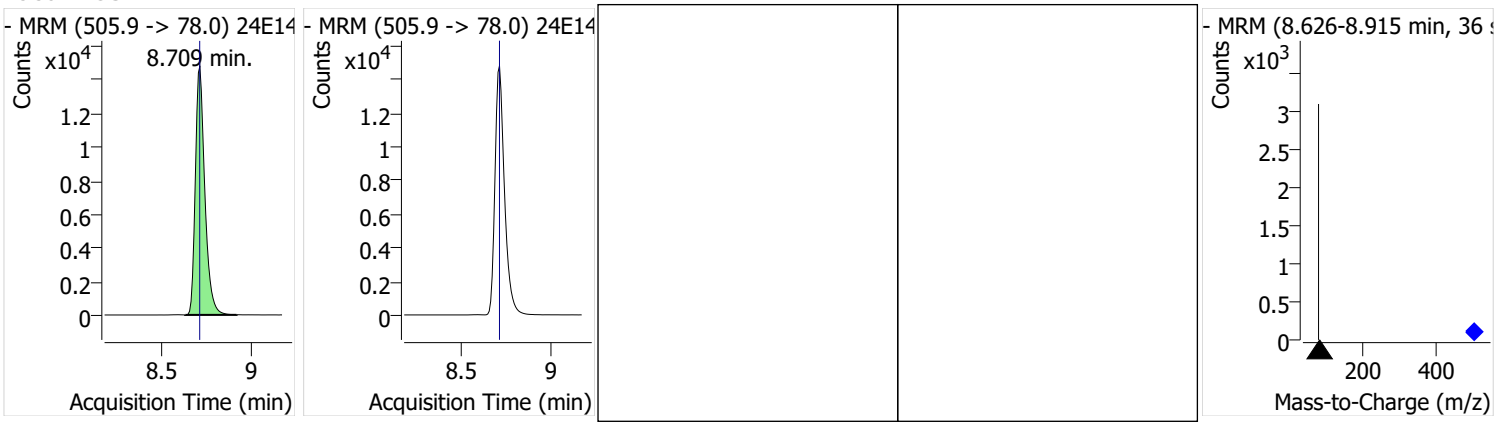

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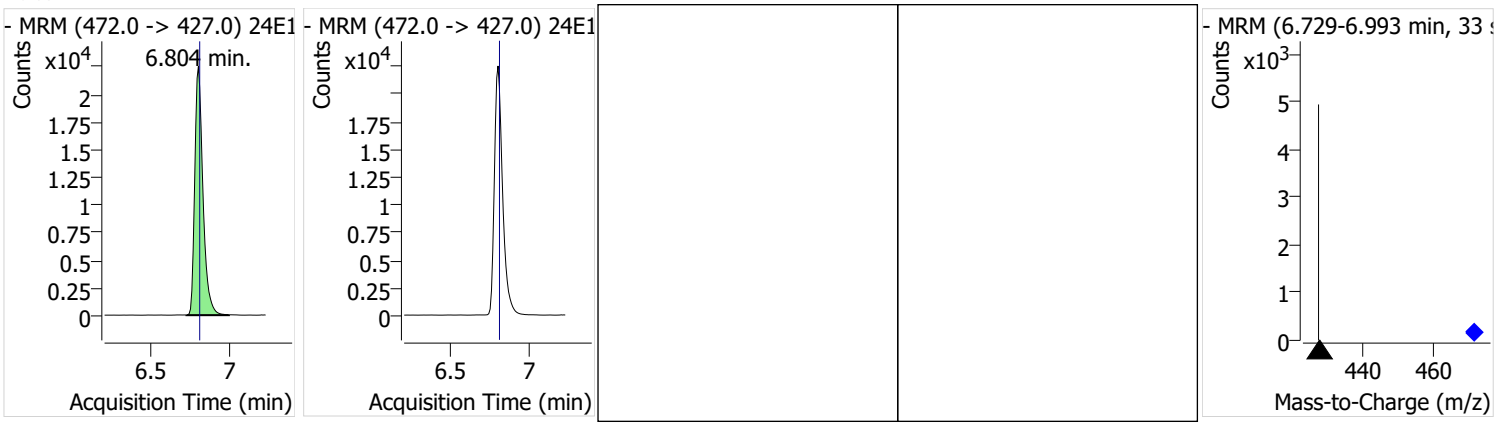

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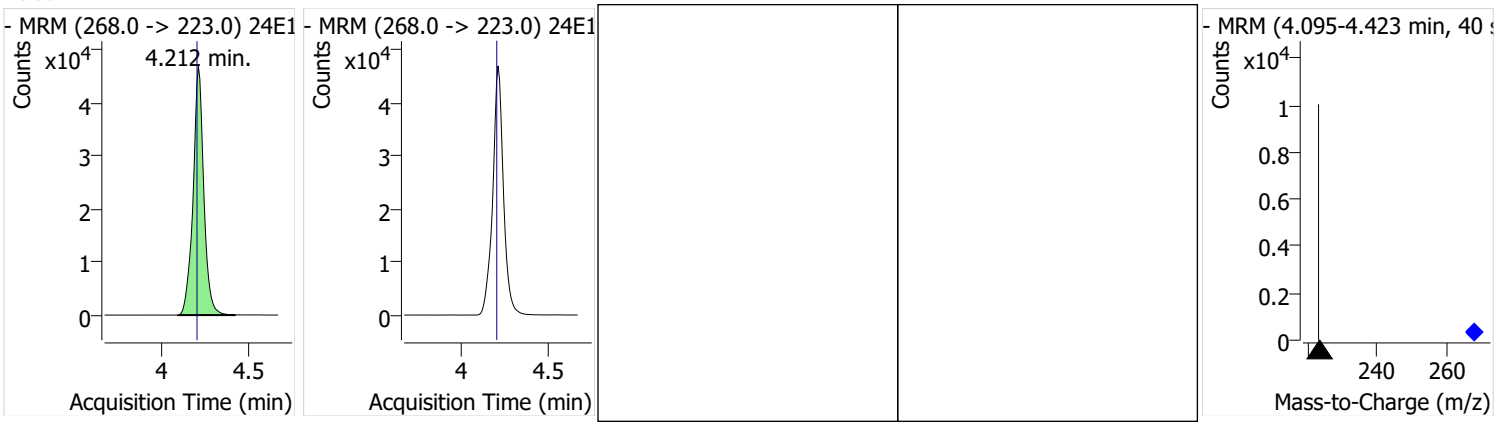

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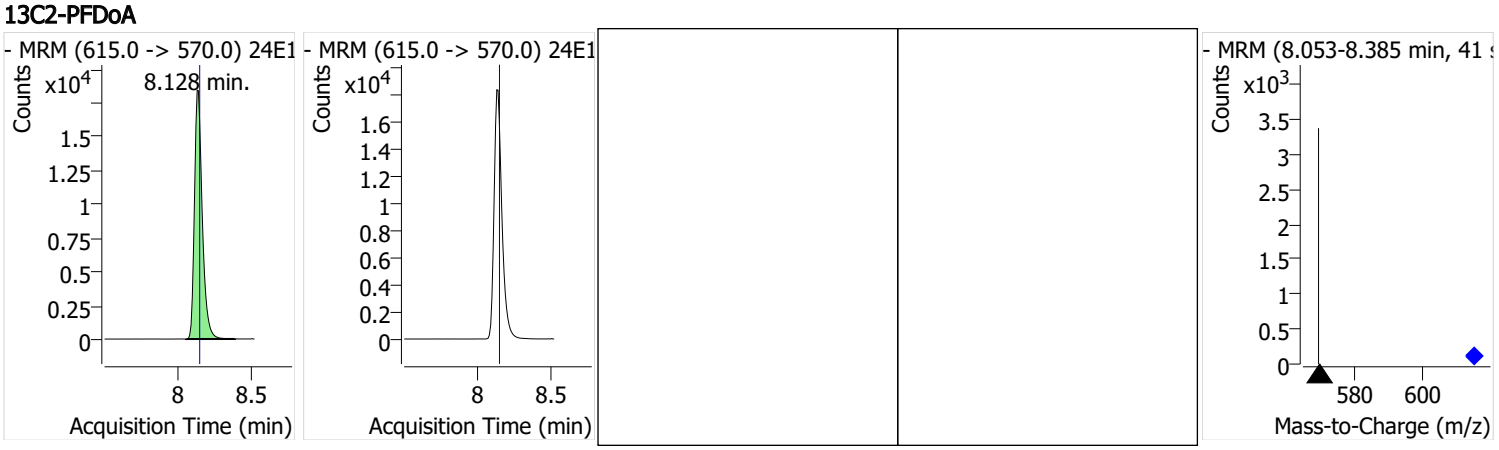

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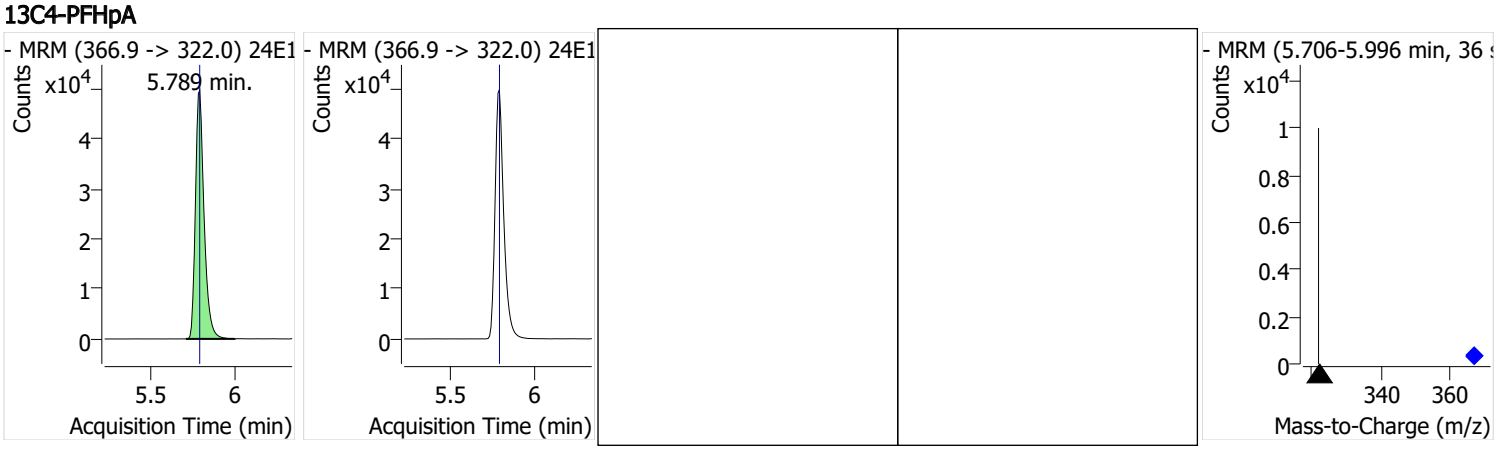

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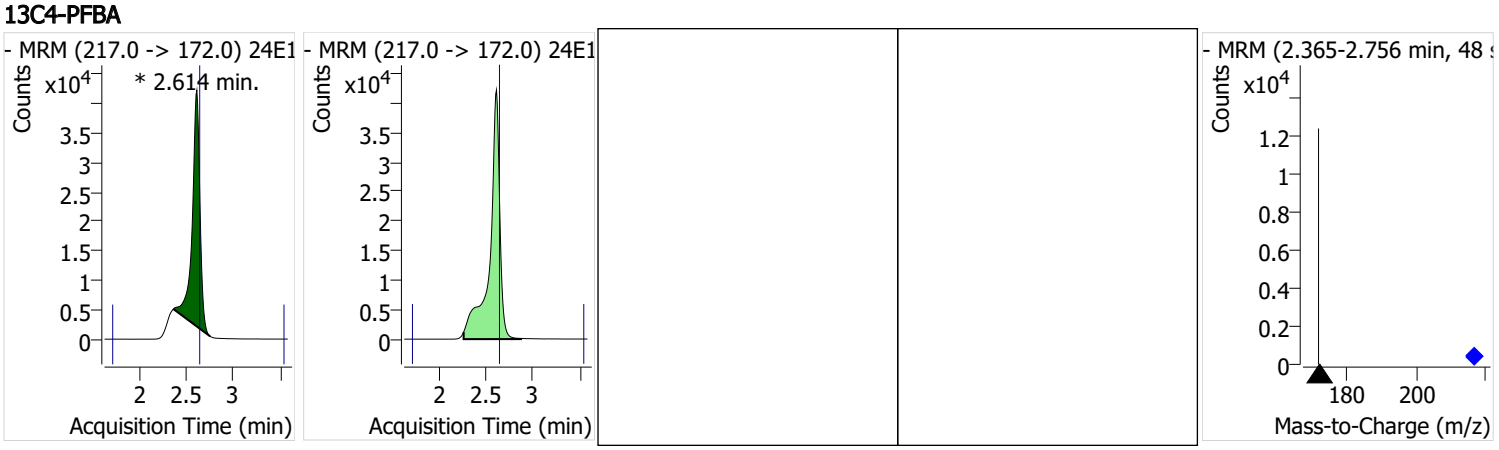
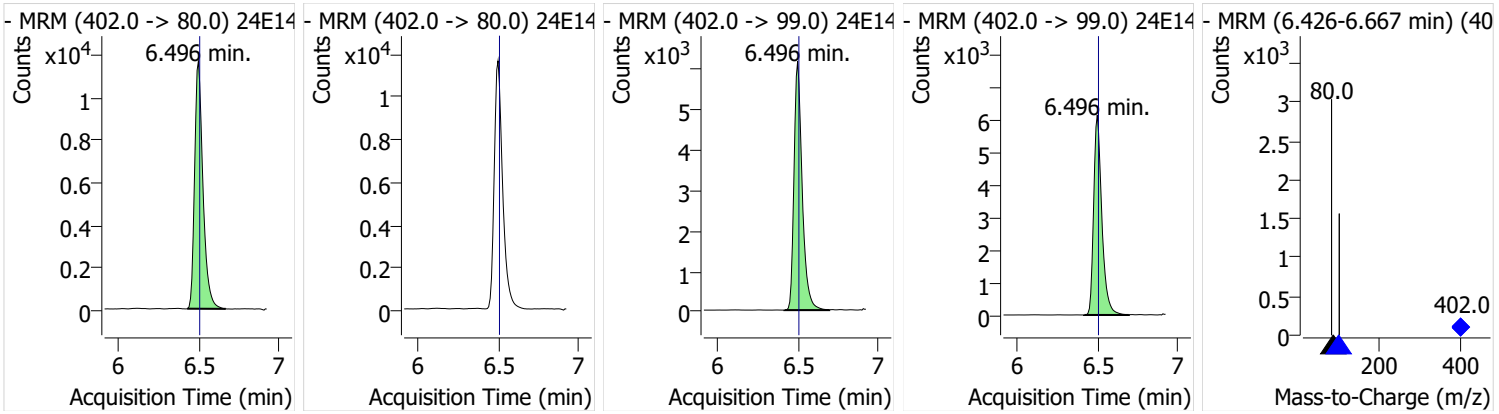


13C3-PFHxS



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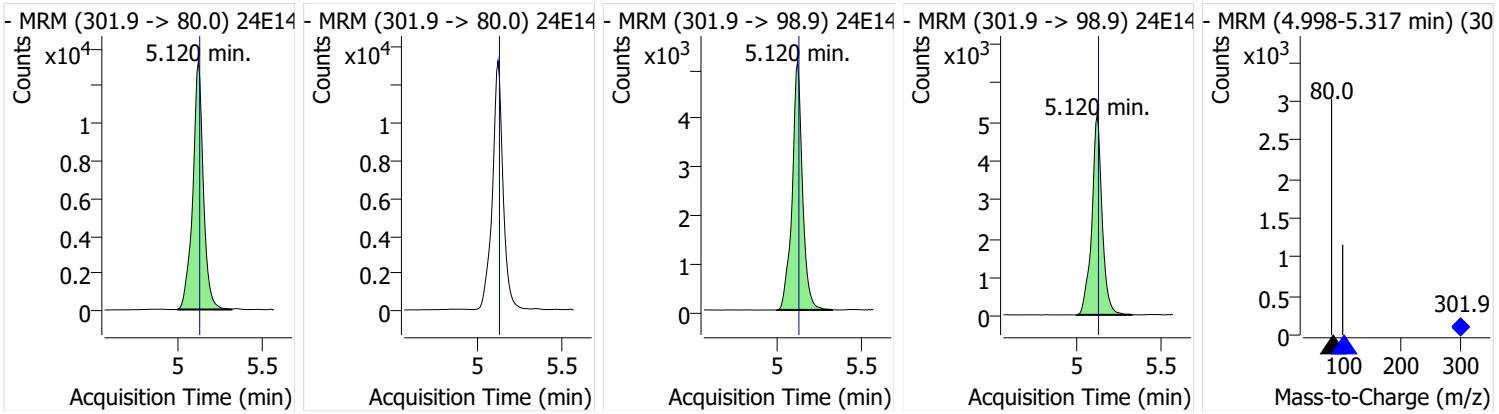

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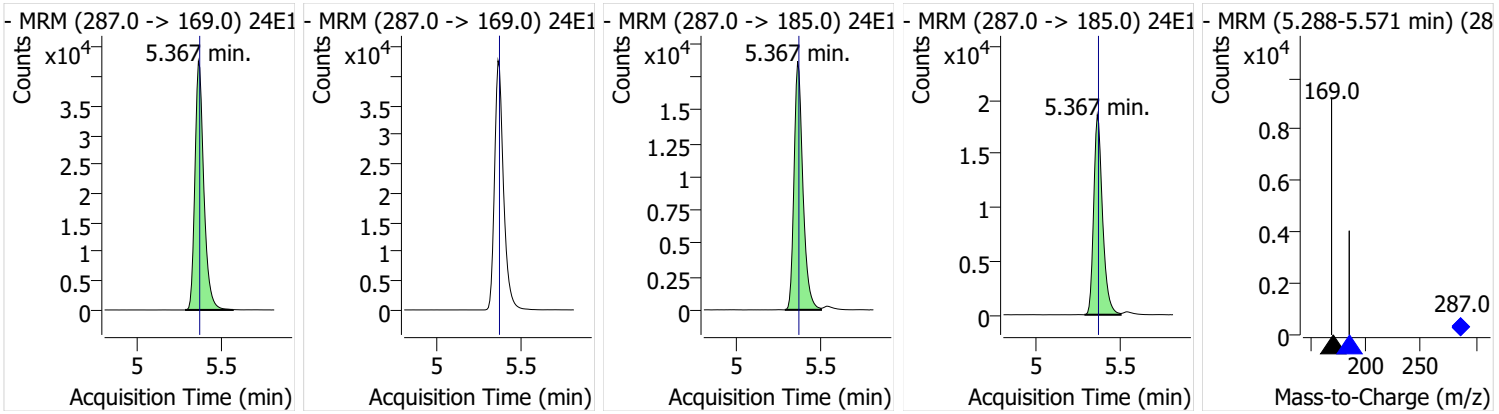

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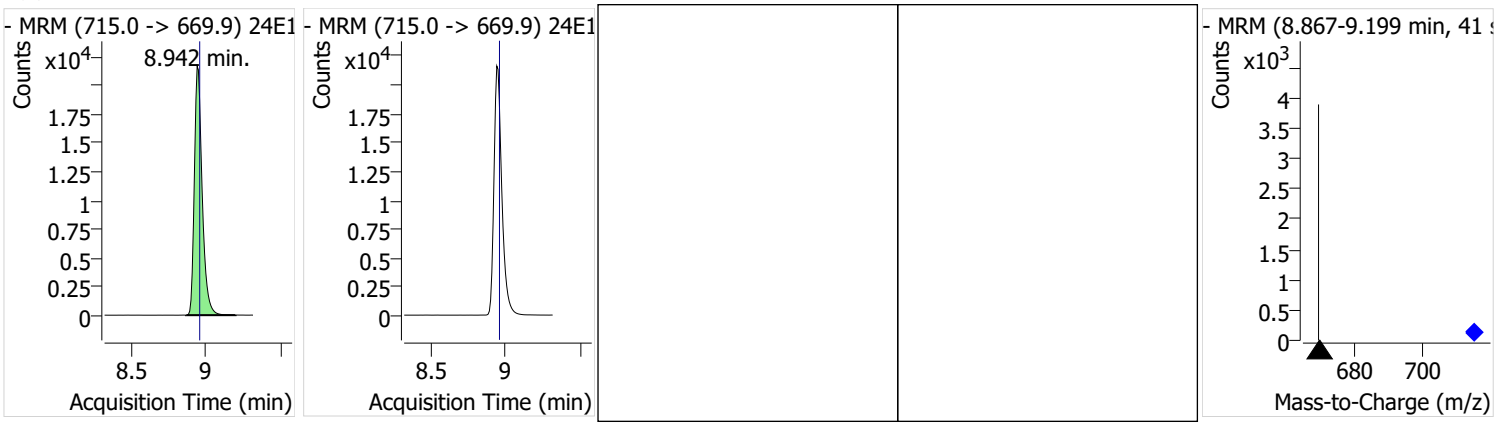
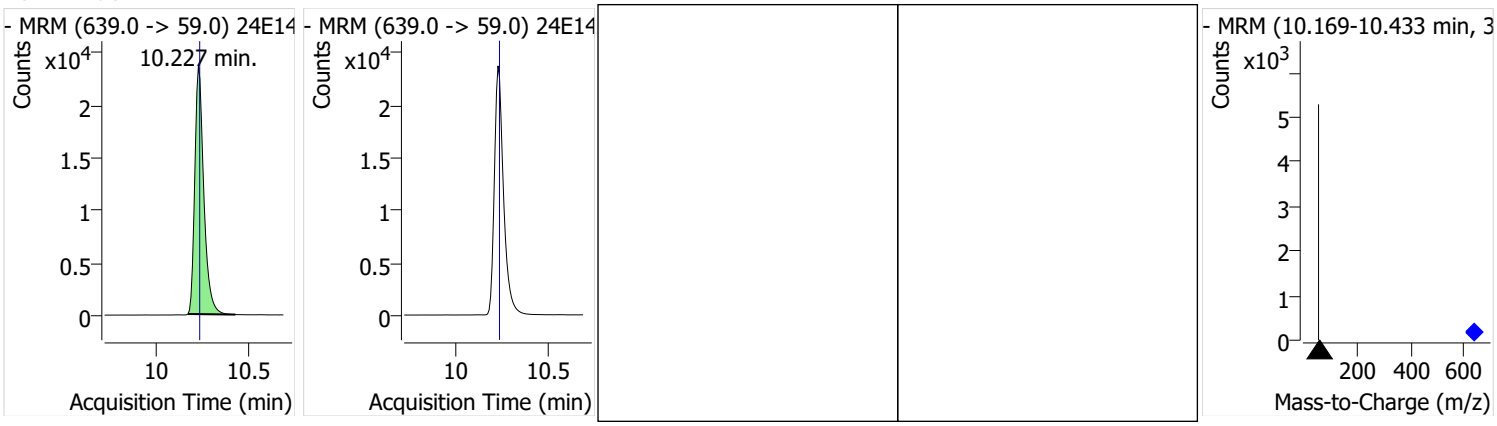
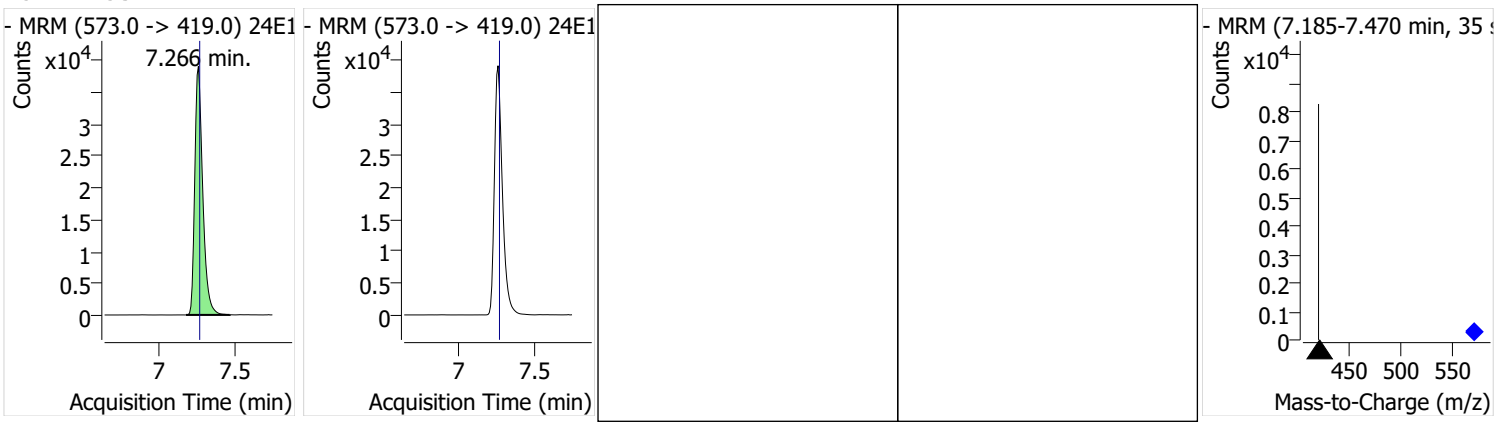


D9-NEtFOSE



D3-NMeFOSA

D3-NMeFOSAA



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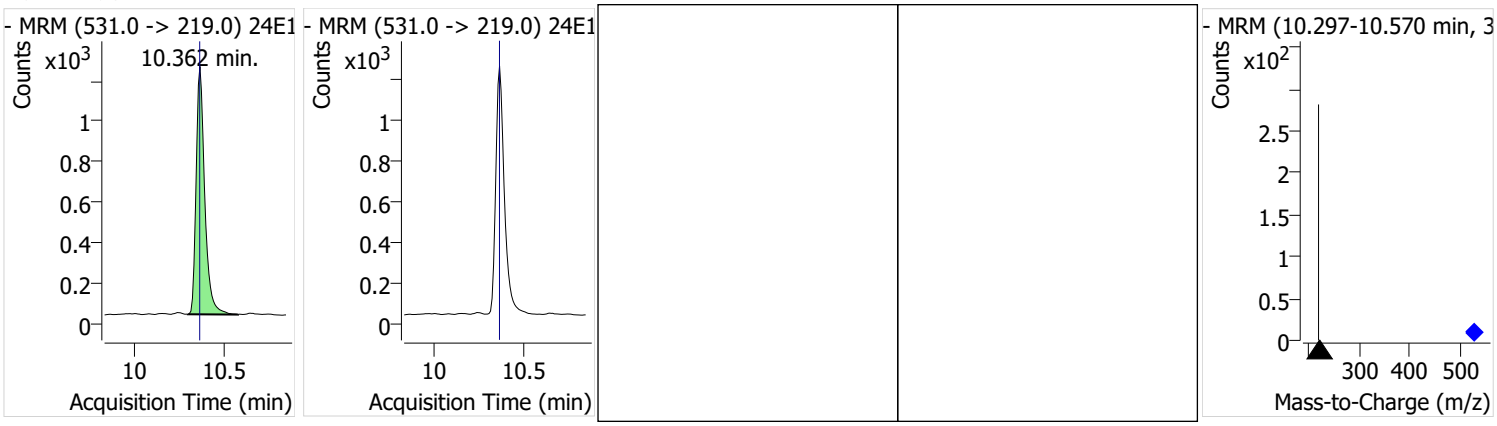
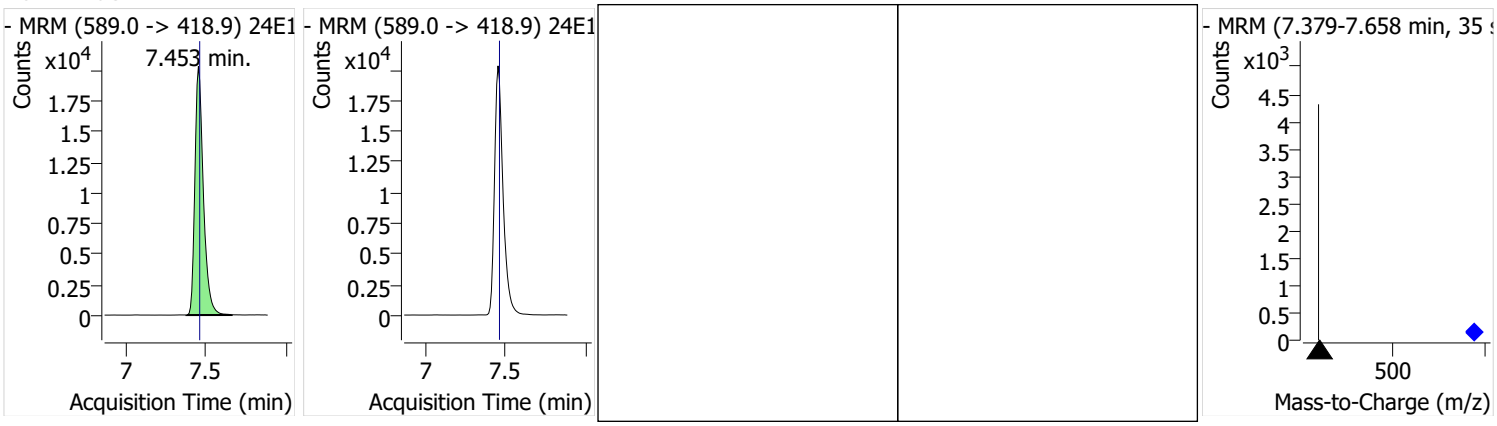
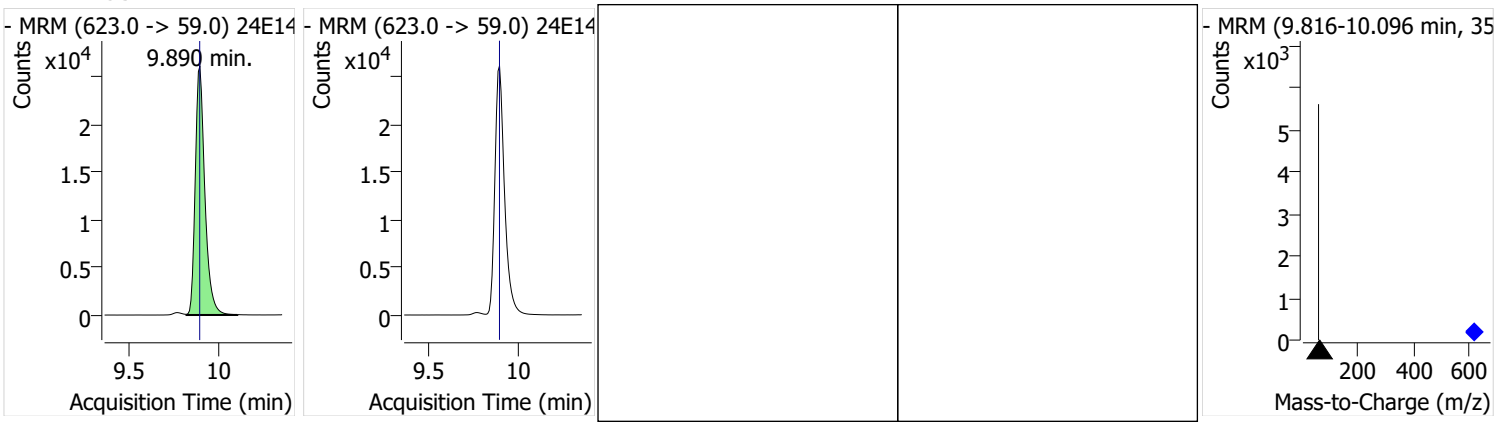


D5-NEtFOSAA



D7-NMeFOSE



QC DATA

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SB1A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Analysis:	Draft Method 1633
Batch:	B374213	Preparation:	Draft Method 1633
% Solids:	72.51	Laboratory ID:	B374213-MS1
Initial/Final:	7.01 g / 5 mL	Sample Lab ID:	24E1437-06
Column:			

ANALYTE	SPIKE ADDED (µg/kg dry)	SAMPLE CONCENTRATION (µg/kg dry)	MS CONCENTRATION (µg/kg dry)	MS % REC.	QC LIMITS REC.
Perfluorobutanoic acid (PFBA)	9.44	ND	8.86	93.8	58 - 148
Perfluoropentanoic acid (PFPeA)	4.72	0.0499	4.51	94.6	54 - 152
Perfluorohexanoic acid (PFHxA)	2.36	0.0526	2.25	93.0	55 - 152
Perfluoroheptanoic acid (PFHpA)	2.36	0.0484	2.22	92.2	54 - 154
Perfluorooctanoic acid (PFOA)	2.36	0.198	2.45	95.4	52 - 161
Perfluorononanoic acid (PFNA)	2.36	0.0774	2.27	92.9	59 - 149
Perfluorodecanoic acid (PFDA)	2.36	0.0432	2.17	90.3	52 - 147
Perfluoroundecanoic acid (PFUnA)	2.36	0.0437	2.25	93.3	48 - 159
Perfluorododecanoic acid (PFDoA)	2.36	ND	2.30	97.5	64 - 142
Perfluorotridecanoic acid (PFTrDA)	2.36	ND	2.22	94.2	49 - 148
Perfluorotetradecanoic acid (PFTeDA)	2.36	ND	2.24	94.7	47 - 161
Perfluorobutanesulfonic acid (PFBS)	2.10	ND	1.86	88.8	62 - 144
Perfluoropentanesulfonic acid (PFPeS)	2.22	ND	2.17	97.9	59 - 151
Perfluorohexanesulfonic acid (PFHxS)	2.16	ND	2.00	92.6	57 - 146
Perfluoroheptanesulfonic acid (PFHpS)	2.25	ND	2.21	98.4	55 - 152
Perfluorooctanesulfonic acid (PFOS)	2.19	0.248	2.38	97.3	58 - 149
Perfluorononanesulfonic acid (PFNS)	2.27	ND	2.17	95.3	52 - 148
Perfluorodecanesulfonic acid (PFDS)	2.28	ND	2.13	93.3	51 - 147
Perfluorododecanesulfonic acid (PFDoS)	2.29	ND	1.79	78.2	36 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	8.85	ND	8.32	94.0	67 - 146
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	8.97	ND	8.29	92.4	61 - 151
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	9.09	ND	9.22	101	63 - 152

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SB1A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Analysis:	Draft Method 1633
Batch:	B374213	Preparation:	Draft Method 1633
% Solids:	72.51	Laboratory ID:	B374213-MS1
Initial/Final:	7.01 g / 5 mL	Sample Lab ID:	24E1437-06
Column:			

ANALYTE	SPIKE ADDED (µg/kg dry)	SAMPLE CONCENTRATION (µg/kg dry)	MS CONCENTRATION (µg/kg dry)	MS % REC.		QC LIMITS REC.
Perfluorooctanesulfonamide (PFOSA)	2.36	ND	2.20	93.1		61 - 148
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	2.36	ND	2.37	100		63 - 145
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	2.36	ND	2.26	95.8		65 - 139
N-MeFOSAA (NMeFOSAA)	2.36	ND	1.98	84.0		58 - 144
N-EtFOSAA (NEtFOSAA)	2.36	ND	2.19	92.8		59 - 146
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	23.6	ND	25.5	108		71 - 136
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	23.6	ND	25.5	108		69 - 137
Hexafluoropropylene oxide dimer acid (HFPO-DA)	9.44	ND	9.18	97.2		63 - 144
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	8.91	ND	8.72	97.8		68 - 146
9Cl-PF3ONS (F53B Minor)	8.85	ND	9.19	104		56 - 156
11Cl-PF3OUdS (F53B Major)	8.91	ND	9.10	102		46 - 156
3-Perfluoropropyl propanoic acid (FPrPA)(3:3FTCA)	23.6	ND	15.2	64.6		62 - 129
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	118	ND	73.1	61.9	*	63 - 134
3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTCA)	118	ND	86.6	73.4		50 - 138
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	4.20	ND	4.39	104		56 - 151
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.72	ND	4.39	93.0		51 - 145
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.72	ND	4.55	96.3		55 - 148
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.72	ND	4.97	105		48 - 161

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SB1A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Analysis:	Draft Method 1633
Batch:	B374213	Preparation:	Draft Method 1633
% Solids:	72.51	Laboratory ID:	B374213-MSD1
Initial/Final:	7.06 g / 5 mL	Sample Lab ID:	24E1437-06
Column:			

ANALYTE	SPIKE ADDED (µg/kg dry)	MSD CONCENTRATION (µg/kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
Perfluorobutanoic acid (PFBA)	9.38	8.76	93.4	1.19	20	58 - 148
Perfluoropentanoic acid (PFPeA)	4.69	4.47	94.3	0.950	20	54 - 152
Perfluorohexanoic acid (PFHxA)	2.34	2.26	94.3	0.614	25	55 - 152
Perfluoroheptanoic acid (PFHpA)	2.34	2.21	92.0	0.834	25	54 - 154
Perfluorooctanoic acid (PFOA)	2.34	2.37	92.6	3.36	25	52 - 161
Perfluorononanoic acid (PFNA)	2.34	2.22	91.4	2.30	25	59 - 149
Perfluorodecanoic acid (PFDA)	2.34	2.11	88.3	2.92	25	52 - 147
Perfluoroundecanoic acid (PFUnA)	2.34	2.18	91.3	2.85	30	48 - 159
Perfluorododecanoic acid (PFDoA)	2.34	2.15	91.6	6.91	25	64 - 142
Perfluorotridecanoic acid (PFTrDA)	2.34	2.18	93.0	1.98	25	49 - 148
Perfluorotetradecanoic acid (PFTeDA)	2.34	2.21	94.4	1.05	25	47 - 161
Perfluorobutanesulfonic acid (PFBS)	2.08	1.91	92.0	2.81	20	62 - 144
Perfluoropentanesulfonic acid (PFPeS)	2.20	2.11	95.8	2.90	25	59 - 151
Perfluorohexanesulfonic acid (PFHxS)	2.14	1.92	89.4	4.19	25	57 - 146
Perfluoroheptanesulfonic acid (PFHpS)	2.23	2.16	96.9	2.25	25	55 - 152
Perfluorooctanesulfonic acid (PFOS)	2.17	2.22	90.6	7.01	20	58 - 149
Perfluorononanesulfonic acid (PFNS)	2.26	2.04	90.4	6.02	25	52 - 148
Perfluorodecanesulfonic acid (PFDS)	2.26	2.06	90.9	3.36	25	51 - 147
Perfluorododecanesulfonic acid (PFDoS)	2.27	1.95	85.9	8.62	30	36 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	8.79	8.54	97.1	2.55	25	67 - 146
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	8.91	8.01	90.0	3.40	30	61 - 151

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SB1A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Analysis:	Draft Method 1633
Batch:	B374213	Preparation:	Draft Method 1633
% Solids:	72.51	Laboratory ID:	B374213-MSD1
Initial/Final:	7.06 g / 5 mL	Sample Lab ID:	24E1437-06
Column:			

ANALYTE	SPIKE ADDED (µg/kg dry)	MSD CONCENTRATION (µg/kg dry)	MSD % REC. #		% RPD		QC LIMITS RPD	QC LIMITS REC.
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	9.02	8.44	93.6		8.82		30	63 - 152
Perfluorooctanesulfonamide (PFOSA)	2.34	2.15	91.5		2.47		20	61 - 148
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	2.34	2.36	101		0.257		25	63 - 145
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	2.34	2.19	93.6		3.11		25	65 - 139
N-MeFOSAA (NMeFOSAA)	2.34	1.97	84.2		0.574		25	58 - 144
N-EtFOSAA (NEtFOSAA)	2.34	2.14	91.3		2.34		25	59 - 146
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	23.4	25.4	108		0.442		20	71 - 136
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	23.4	24.9	106		2.38		25	69 - 137
Hexafluoropropylene oxide dimer acid (HFPO-DA)	9.38	9.16	97.7		0.194		25	63 - 144
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	8.85	8.51	96.2		2.42		20	68 - 146
9Cl-PF3ONS (F53B Minor)	8.79	9.35	106		1.67		30	56 - 156
11Cl-PF3OUdS (F53B Major)	8.85	8.98	101		1.30		35	46 - 156
3-Perfluoropropyl propanoic acid (FPrPA)(3:3FTCA)	23.4	14.8	63.0		3.17		20	62 - 129
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	117	59.7	51.0	*	20.1	*	20	63 - 134
3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTCA)	117	75.6	64.5		13.6		25	50 - 138
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	4.17	4.40	105		0.273		20	56 - 151
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.69	4.42	94.3		0.690		25	51 - 145
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.69	4.53	96.5		0.522		20	55 - 148
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.69	4.86	104		2.10		35	48 - 161

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

Draft Method 1633

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Preparation:	Draft Method 1633
Batch:	B374213	Laboratory ID:	B374213-BS1
Column:		Initial/Final:	5.168 g / 5 mL

ANALYTE	SPIKE ADDED (µg/kg wet)	LCS CONCENTRATION (µg/kg wet)	LCS % REC.	QC LIMITS REC.
Perfluorobutanoic acid (PFBA)	9.29	8.02	86.3	58 - 148
Perfluoropentanoic acid (PFPeA)	4.64	3.98	85.7	54 - 152
Perfluorohexanoic acid (PFHxA)	2.32	1.96	84.5	55 - 152
Perfluoroheptanoic acid (PFHpA)	2.32	1.94	83.6	54 - 154
Perfluorooctanoic acid (PFOA)	2.32	1.96	84.6	52 - 161
Perfluorononanoic acid (PFNA)	2.32	1.97	84.7	59 - 149
Perfluorodecanoic acid (PFDA)	2.32	1.96	84.6	52 - 147
Perfluoroundecanoic acid (PFUnA)	2.32	1.95	84.1	48 - 159
Perfluorododecanoic acid (PFDoA)	2.32	2.00	86.2	64 - 142
Perfluorotridecanoic acid (PFTrDA)	2.32	1.96	84.5	49 - 148
Perfluorotetradecanoic acid (PFTeDA)	2.32	1.97	84.8	47 - 161
Perfluorobutanesulfonic acid (PFBS)	2.06	1.79	86.6	62 - 144
Perfluoropentanesulfonic acid (PFPeS)	2.18	1.94	89.0	59 - 151
Perfluorohexanesulfonic acid (PFHxS)	2.12	1.79	84.4	57 - 146
Perfluoroheptanesulfonic acid (PFHpS)	2.21	1.92	86.7	55 - 152
Perfluorooctanesulfonic acid (PFOS)	2.15	1.70	79.2	58 - 149
Perfluorononanesulfonic acid (PFNS)	2.23	1.93	86.5	52 - 148
Perfluorodecanesulfonic acid (PFDS)	2.24	1.90	84.7	51 - 147
Perfluorododecanesulfonic acid (PFDoS)	2.25	1.85	82.2	36 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	8.71	7.54	86.6	67 - 146
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	8.82	7.44	84.3	61 - 151
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	8.94	8.40	93.9	63 - 152
Perfluorooctanesulfonamide (PFOSA)	2.32	1.97	84.7	61 - 148
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	2.32	2.07	89.3	63 - 145
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	2.32	2.09	90.1	65 - 139
N-MeFOSAA (NMeFOSAA)	2.32	1.87	80.7	58 - 144
N-EtFOSAA (NEtFOSAA)	2.32	1.95	84.0	59 - 146
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	23.2	23.1	99.4	71 - 136
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	23.2	23.6	102	69 - 137
Hexafluoropropylene oxide dimer acid (HFPO-DA)	9.29	7.94	85.4	63 - 144

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

Draft Method 1633

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Preparation:	Draft Method 1633
Batch:	B374213	Laboratory ID:	B374213-BS1
Column:		Initial/Final:	5.168 g / 5 mL

ANALYTE	SPIKE ADDED (µg/kg wet)	LCS CONCENTRATION (µg/kg wet)	LCS % REC.	QC LIMITS REC.
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	8.77	7.70	87.8	68 - 146
9Cl-PF3ONS (F53B Minor)	8.71	8.33	95.6	56 - 156
11Cl-PF3OUdS (F53B Major)	8.77	8.26	94.2	46 - 156
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	23.2	16.7	71.9	62 - 129
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA) (5:3FTCA)	116	92.5	79.7	63 - 134
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	116	92.3	79.5	50 - 138
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	4.13	3.86	93.4	56 - 151
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.64	3.86	83.1	51 - 145
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.64	3.99	85.9	55 - 148
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.64	4.47	96.3	48 - 161

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

Draft Method 1633

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Preparation:	Draft Method 1633
Batch:	B374779	Laboratory ID:	B374779-BS1
Column:		Initial/Final:	5.012 g / 5 mL

ANALYTE	SPIKE ADDED (µg/kg wet)	LCS CONCENTRATION (µg/kg wet)	LCS % REC.	QC LIMITS REC.
Perfluorobutanoic acid (PFBA)	9.58	8.14	85.0	58 - 148
Perfluoropentanoic acid (PFPeA)	4.79	4.09	85.4	54 - 152
Perfluorohexanoic acid (PFHxA)	2.39	2.04	85.0	55 - 152
Perfluoroheptanoic acid (PFHpA)	2.39	2.04	85.4	54 - 154
Perfluorooctanoic acid (PFOA)	2.39	2.00	83.3	52 - 161
Perfluorononanoic acid (PFNA)	2.39	2.05	85.5	59 - 149
Perfluorodecanoic acid (PFDA)	2.39	2.01	83.9	52 - 147
Perfluoroundecanoic acid (PFUnA)	2.39	2.04	85.3	48 - 159
Perfluorododecanoic acid (PFDoA)	2.39	2.07	86.3	64 - 142
Perfluorotridecanoic acid (PFTrDA)	2.39	1.99	82.9	49 - 148
Perfluorotetradecanoic acid (PFTeDA)	2.39	2.08	86.9	47 - 161
Perfluorobutanesulfonic acid (PFBS)	2.12	1.82	85.8	62 - 144
Perfluoropentanesulfonic acid (PFPeS)	2.25	1.96	86.9	59 - 151
Perfluorohexanesulfonic acid (PFHxS)	2.19	1.80	82.3	57 - 146
Perfluoroheptanesulfonic acid (PFHpS)	2.28	1.95	85.6	55 - 152
Perfluorooctanesulfonic acid (PFOS)	2.22	1.78	80.3	58 - 149
Perfluorononanesulfonic acid (PFNS)	2.30	2.00	86.8	52 - 148
Perfluorodecanesulfonic acid (PFDS)	2.31	1.94	84.0	51 - 147
Perfluorododecanesulfonic acid (PFDoS)	2.32	1.93	83.0	36 - 145
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	8.98	7.77	86.6	67 - 146
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	9.10	8.52	93.7	61 - 151
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	9.22	8.06	87.4	63 - 152
Perfluorooctanesulfonamide (PFOSA)	2.39	2.03	84.8	61 - 148
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	2.39	2.14	89.3	63 - 145
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	2.39	2.11	88.3	65 - 139
N-MeFOSAA (NMeFOSAA)	2.39	2.14	89.5	58 - 144
N-EtFOSAA (NEtFOSAA)	2.39	1.88	78.5	59 - 146
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	23.9	21.6	90.2	71 - 136
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	23.9	22.2	92.8	69 - 137
Hexafluoropropylene oxide dimer acid (HFPO-DA)	9.58	8.43	88.0	63 - 144

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

Draft Method 1633

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Preparation:	Draft Method 1633
Batch:	B374779	Laboratory ID:	B374779-BS1
Column:		Initial/Final:	5.012 g / 5 mL

ANALYTE	SPIKE ADDED (µg/kg wet)	LCS CONCENTRATION (µg/kg wet)	LCS % REC.	QC LIMITS REC.
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	9.04	7.91	87.5	68 - 146
9Cl-PF3ONS (F53B Minor)	8.98	8.43	93.9	56 - 156
11Cl-PF3OUdS (F53B Major)	9.04	8.34	92.3	46 - 156
3-Perfluoropropyl propanoic acid (FPrPA) (3:3FTCA)	23.9	15.7	65.7	62 - 129
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA) (5:3FTCA)	120	89.8	75.0	63 - 134
3-Perfluoroheptyl propanoic acid (FHpPA) (7:3FTCA)	120	89.7	75.0	50 - 138
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	4.26	3.95	92.6	56 - 151
Perfluoro-3-methoxypropanoic acid (PFMPA)	4.79	4.26	89.0	51 - 145
Perfluoro-4-methoxybutanoic acid (PFMBA)	4.79	4.16	86.8	55 - 148
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.79	4.06	84.8	48 - 161

4 - FORM IV
METHOD BLANK SUMMARY

Draft Method 1633

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Blank ID:	B374213-BLK1 Batch: B374213	Prepared:	05/15/2024 00:00

Client Sample ID	Laboratory Sample ID	Lab File ID	Time Analyzed
MRL Check	B374213-MRL1	B374213-MRL1.d	07:00
LCS	B374213-BS1	B374213-BS1.d	07:15
Matrix Spike	B374213-MS1	B374213-MS1.d	07:31
Matrix Spike Dup	B374213-MSD1	B374213-MSD1.d	07:47
CG-2	24E1437-02	24E1437-02.d	09:52
B1A	24E1437-04	24E1437-04.d	10:08
SB1A	24E1437-06	24E1437-06.d	10:24
SB4A	24E1437-12	24E1437-12.d	11:11
SB7	24E1437-17	24E1437-17.d	11:26

4 - FORM IV
METHOD BLANK SUMMARY

Draft Method 1633

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Blank ID:	B374779-BLK1 Batch: B374779	Prepared:	05/21/2024 00:00

Client Sample ID	Laboratory Sample ID	Lab File ID	Time Analyzed
MRL Check	B374779-MRL1	B374779-MRL1.d	17:26
LCS	B374779-BS1	B374779-BS1.d	17:41
DUP	24E1437-19RE1	24E1437-19RE1.d	20:02

CALIBRATION DATA

6 - FORM VI
INITIAL CALIBRATION DATA SHEET

Draft Method 1633

Client: NYS Division of Environmental Remediation SDG: 24E1437

Project: Tivoli Memorial Park- CO 149634

Calibration: 2400518 Instrument: QQQ6

Calibration Date: 5/8/2024 12:00:51AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
Perfluorobutanoic acid (PFBA)	0.4	0.880752	0.8	0.8989267	2	1.098761	5	0.8742038	10	0.876699	20	0.9029007
Perfluoropentanoic acid (PFPeA	0.2	0.942833	0.4	0.9832512	1	1.13466	2.5	0.9621997	5	0.9661246	10	0.9901737
Perfluorohexanoic acid (PFHxA)	0.1	0.9861242	0.2	1.009664	0.5	1.128569	1.25	0.9632123	2.5	0.9802674	5	1.006521
Perfluoroheptanoic acid (PFHpA	0.1	1.022495	0.2	0.9883605	0.5	1.17863	1.25	0.9846866	2.5	1.01093	5	1.013946
Perfluorooctanoic acid (PFOA)	0.1	1.237077	0.2	1.234403	0.5	1.432965	1.25	1.185542	2.5	1.192477	5	1.197493
Perfluorononanoic acid (PFNA)	0.1	1.109253	0.2	0.9355277	0.5	1.112366	1.25	0.9478001	2.5	0.9432417	5	0.9784226
Perfluorodecanoic acid (PFDA)	0.1	1.040253	0.2	1.013425	0.5	1.208196	1.25	0.9725267	2.5	0.9520228	5	0.980457
Perfluoroundecanoic acid (PFUr	0.1	1.163886	0.2	0.9663214	0.5	1.107269	1.25	0.9152251	2.5	0.9287863	5	0.972397
Perfluorododecanoic acid (PFD	0.1	1.06961	0.2	1.097987	0.5	1.203181	1.25	0.9663253	2.5	0.9769149	5	1.000795
Perfluorotridecanoic acid (PFTrI	0.1	1.009936	0.2	0.8431047	0.5	0.9953561	1.25	0.8517649	2.5	0.8408528	5	0.8856062
Perfluorotetradecanoic acid (PF	0.1	1.044215	0.2	0.9744946	0.5	1.160584	1.25	0.9608628	2.5	1.018092	5	1.002519
Perfluorobutanesulfonic acid (PI	0.0888	1.354056	0.178	1.157408	0.444	1.431527	1.11	1.201683	2.22	1.174889	4.44	1.23847
Perfluoropentanesulfonic acid (P	0.094	1.443563	0.188	1.230856	0.47	1.558318	1.18	1.221302	2.35	1.286236	4.7	1.312598
Perfluorohexanesulfonic acid (P	0.0915	1.263383	0.183	1.17621	0.458	1.299813	1.14	1.022385	2.29	1.027517	4.58	1.087258
Perfluoroheptanesulfonic acid (P	0.0952	1.406229	0.19	1.245004	0.476	1.492176	1.19	1.267226	2.38	1.280246	4.76	1.278679
Perfluorooctanesulfonic acid (PF	0.0928	1.651171	0.186	1.260746	0.464	1.493119	1.16	1.139654	2.32	1.196829	4.64	1.210046
Perfluorononanesulfonic acid (P	0.0962	1.093478	0.192	0.9675118	0.481	1.164296	1.2	0.9411734	2.41	1.015654	4.81	1.002022
Perfluorodecanesulfonic acid (P	0.0965	0.9025435	0.193	0.7846832	0.482	0.9662632	1.21	0.7659418	2.41	0.8159918	4.82	0.7973702
Perfluorododecanesulfonic acid	0.097	0.5193726	0.194	0.4770291	0.485	0.5978835	1.21	0.4734522	2.42	0.4963715	4.85	0.4835769
1H,1H,2H,2H-Perfluorohexane s	0.375	2.688523	0.75	2.927444	1.88	3.440456	4.69	2.850052	9.38	2.883081	18.8	2.909225
1H,1H,2H,2H-Perfluorooctane s	0.38	4.598268	0.76	3.115711	1.9	3.918983	4.75	3.059781	9.5	3.09681	19	3.368147
1H,1H,2H,2H-Perfluorodecane s	0.385	2.631059	0.77	2.759407	1.92	2.949681	4.81	2.549592	9.62	2.60818	19.2	2.528892
Perfluorooctanesulfonamide (PF	0.1	1.041373	0.2	1.069701	0.5	1.228542	1.25	1.035038	2.5	1.075185	5	1.109892
N-methyl perfluoroocatnesulfona	0.1	1.057591	0.2	1.250569	0.5	1.442321	1.25	1.211673	2.5	1.178596	5	1.185182
N-ethyl perfluorooctanesulfonam	0.1	1.210328	0.2	1.238403	0.5	1.480921	1.25	1.225517	2.5	1.232274	5	1.277262
N-MeFOSAA (NMeFOSAA)	0.1	0.3906681	0.2	0.4692366	0.5	0.5072896	1.25	0.3790489	2.5	0.4097019	5	0.4082119
N-EtFOSAA (NEtFOSAA)	0.1	1.068905	0.2	1.170236	0.5	1.43261	1.25	1.151025	2.5	1.198666	5	1.186883
N-methylperfluorooctanesulfona	1	0.9892205	2	1.089417	5	1.282834	12.5	1.057577	25	1.099596	50	1.073138
N-ethylperfluorooctanesulfonam	1	1.056958	2	1.127548	5	1.322332	12.5	1.098772	25	1.134959	50	1.111021
Hexafluoropropylene oxide dime	0.4	0.8331458	0.8	0.967522	2	1.0854	5	0.91529	10	0.8361056	20	0.9341569
4,8-Dioxa-3H-perfluorononanoic	0.378	6.300282	0.755	7.297148	1.89	8.135075	4.72	6.932772	9.44	6.251023	18.9	7.075887

6 - FORM VI
INITIAL CALIBRATION DATA SHEET

Draft Method 1633

Client: NYS Division of Environmental Remediation SDG: 24E1437

Project: Tivoli Memorial Park- CO 149634

Calibration: 2400518 Instrument: QQQ6

Calibration Date: 5/8/2024 12:00:51AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
9Cl-PF3ONS (F53B Minor)	0.375	3.24445	0.75	3.598315	1.88	3.940583	4.69	3.401519	9.38	3.042628	18.8	3.25247
11Cl-PF3OUdS (F53B Major)	0.378	2.877032	0.755	3.181936	1.89	3.583282	4.72	3.030298	9.44	2.694783	18.9	2.941929
3-Perfluoropropyl propanoic acid	1	3.147966E-02	2	3.451094E-02	5	3.898064E-02	12.5	0.0327851	25	3.380773E-02	50	3.445388E-02
2H,2H,3H,3H-Perfluorooctanoic	5	8.978027E-02	10	9.595098E-02	25	0.1154568	62.5	9.592835E-02	125	9.641745E-02	250	0.100389
3-Perfluoroheptyl propanoic acid	5	0.1071607	10	0.1120663	25	0.1305059	62.5	0.1095633	125	0.1099116	250	0.1173302
Perfluoro(2-ethoxyethane)sulfon	0.178	1.38622	0.356	1.207849	0.89	1.559324	2.22	1.261553	4.45	1.244345	8.9	1.220073
Perfluoro-3-methoxypropanoic a	0.2	0.1172947	0.4	0.1026997	1	0.1273612	2.5	0.1053522	5	0.100771	10	0.1013963
Perfluoro-4-methoxybutanoic ac	0.2	0.6645329	0.4	0.6527019	1	0.8218463	2.5	0.6878097	5	0.6537736	10	0.6593013
Nonafluoro-3,6-dioxaheptanoic a	0.2	9.030985E-02	0.4	8.697246E-02	1	0.10498	2.5	8.429025E-02	5	8.243131E-02	10	8.325957E-02
13C4-PFBA	10	1.078588	10	1.056689	10	0.8956164	10	1.074401	10	1.124401	10	1.094762
13C5-PFPeA	5	0.9347606	5	0.9266767	5	0.7593209	5	0.9400953	5	0.981139	5	0.9347469
13C5-PFHxA	2.5	1.033879	2.5	1.021843	2.5	0.8439259	2.5	1.037272	2.5	1.075324	2.5	1.031697
13C4-PFHpA	2.5	1.175096	2.5	1.138536	2.5	0.9438051	2.5	1.167169	2.5	1.2163	2.5	1.167114
13C8-PFOA	2.5	6.702831	2.5	6.913616	2.5	5.701431	2.5	6.851059	2.5	7.199395	2.5	6.994926
13C9-PFNA	1.25	0.8503873	1.25	0.8215263	1.25	0.7008743	1.25	0.8392852	1.25	0.8945659	1.25	0.8686395
13C6-PFDA	1.25	0.9602631	1.25	0.9851362	1.25	0.8039632	1.25	1.010742	1.25	1.035316	1.25	1.017651
13C7-PFUnA	1.25	0.8210379	1.25	0.791552	1.25	0.683076	1.25	0.8256611	1.25	0.8779683	1.25	0.8394969
13C2-PFDoA	1.25	0.8061218	1.25	0.792365	1.25	0.6608284	1.25	0.8354443	1.25	0.8762827	1.25	0.8263618
13C2-PFTeDA	1.25	0.6889937	1.25	0.6857675	1.25	0.5623093	1.25	0.6951603	1.25	0.7189175	1.25	0.707191
13C3-PFBS	2.5	1.415249	2.5	1.400074	2.5	1.157421	2.5	1.449949	2.5	1.462575	2.5	1.437939
13C3-PFHxS	2.5	1.047627	2.5	0.9819533	2.5	0.8230136	2.5	1.048118	2.5	1.055097	2.5	1.044696
13C8-PFOS	2.5	0.8920027	2.5	0.8969322	2.5	0.7285962	2.5	0.8928624	2.5	0.8961093	2.5	0.9206695
13C2-4:2FTS	5	0.3428581	5	0.2815809	5	0.2628141	5	0.3277449	5	0.3337811	5	0.321137
13C2-6:2FTS	5	0.2087604	5	0.1912804	5	0.1659769	5	0.2142312	5	0.2246752	5	0.2073346
13C2-8:2FTS	5	0.1585389	5	0.1442342	5	0.1401795	5	0.1614342	5	0.1731442	5	0.1727213
13C8-PFOSA	2.5	1.561096	2.5	1.524441	2.5	1.256024	2.5	1.533316	2.5	1.599572	2.5	1.568715
D3-NMeFOSA	2.5	0.5050367	2.5	0.4735492	2.5	0.3944789	2.5	0.474751	2.5	0.5053335	2.5	0.5082094
D5-NEtFOSA	2.5	0.5374569	2.5	0.5356394	2.5	0.4269331	2.5	0.5190243	2.5	0.5418314	2.5	0.536254
D3-NMeFOSAA	5	1.54654	5	1.456331	5	1.272456	5	1.54408	5	1.621816	5	1.615818
D5-NEtFOSAA	5	0.7597879	5	0.7567832	5	0.6295387	5	0.7985791	5	0.8247808	5	0.8417937
D7-NMeFOSE	25	0.6487272	25	0.6139461	25	0.5040054	25	0.6159665	25	0.6245165	25	0.6263096

6 - FORM VI
INITIAL CALIBRATION DATA SHEET

Draft Method 1633

Client: NYS Division of Environmental Remediation SDG: 24E1437

Project: Tivoli Memorial Park- CO 149634

Calibration: 2400518 Instrument: QQQ6

Calibration Date: 5/8/2024 12:00:51AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
D9-NEtFOSE	25	0.7192596	25	0.6731147	25	0.5602186	25	0.6695295	25	0.67617	25	0.6780981
13C3-HFPO-DA	10	0.3135023	10	0.2943567	10	0.2464438	10	0.3023093	10	0.3180249	10	0.3001868

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

Draft Method 1633

Client: NYS Division of Environmental Remediation SDG: 24E1437

Project: Tivoli Memorial Park- CO 149634

Calibration: 2400518 Instrument: QQQ6

Calibration Date: 5/8/2024 12:00:51AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
		RF		RF		RF		RF		RF		RF
Perfluorobutanoic acid (PFBA)	50	0.8980329	100	0.9173121	200	0.9432707	250	0.9397728				
Perfluoropentanoic acid (PFPeA	25	0.9888001	50	1.014241	100	1.053165	125	1.062806				
Perfluorohexanoic acid (PFHxA)	12.5	0.9967316	25	1.018512	50	1.029414	62.5	1.045184				
Perfluoroheptanoic acid (PFHpA	12.5	1.012293	25	1.029957	50	1.082441	62.5	1.09649				
Perfluorooctanoic acid (PFOA)	12.5	1.229621	25	1.237535	50	1.303937	62.5	1.300368				
Perfluorononanoic acid (PFNA)	12.5	0.9349105	25	1.002728	50	1.044356	62.5	1.04237				
Perfluorodecanoic acid (PFDA)	12.5	0.9866891	25	1.052228	50	1.064198	62.5	1.031051				
Perfluoroundecanoic acid (PFU	12.5	0.9701389	25	0.9564108	50	1.040241	62.5	1.025505				
Perfluorododecanoic acid (PFD	12.5	1.011216	25	1.014695	50	1.016574	62.5	1.003751				
Perfluorotridecanoic acid (PFTr	12.5	0.8443216	25	0.8319026	50	0.8496215	62.5	0.8742129				
Perfluorotetradecanoic acid (PF	12.5	0.9907783	25	0.9872509	50	0.9626295	62.5	0.956201				
Perfluorobutanesulfonic acid (P	11.1	1.206867	22.2	1.242299	44.4	1.217941	55.5	1.237749				
Perfluoropentanesulfonic acid (P	11.8	1.251348	23.5	1.256393	47	1.213598	58.8	1.183072				
Perfluorohexanesulfonic acid (P	11.4	1.078296	22.9	1.093897	45.8	1.115762	57.2	1.110381				
Perfluoroheptanesulfonic acid (P	11.9	1.317702	23.8	1.290586	47.6	1.290681	59.5	1.325948				
Perfluorooctanesulfonic acid (PF	11.6	1.239975	23.2	1.24002	46.4	1.26373	58	1.295628				
Perfluorononanesulfonic acid (P	12	1.030644	24.1	0.9911218	48.1	0.9776818	60.2	0.9950365				
Perfluorodecanesulfonic acid (P	12.1	0.8042024	24.1	0.7692196	48.2	0.7604899	60.3	0.7780277				
Perfluorododecanesulfonic acid	12.1	0.4924435	24.2	0.4800949	48.5	0.4778014	60.6	0.4885235				
1H,1H,2H,2H-Perfluorohexane s	46.9	2.908254	93.8	2.795997	188	2.834804	234	~~2.626311~~				
1H,1H,2H,2H-Perfluorooctane s	47.5	3.14875	95	3.155306	190	3.021744	238	~~2.840656~~				
1H,1H,2H,2H-Perfluorodecane s	48.1	2.419328	96.2	2.329461	192	2.162124	241	~~2.096194~~				
Perfluorooctanesulfonamide (PF	12.5	1.089654	25	1.136774	50	1.126672	62.5	1.12552				
N-methyl perfluoroocatnesulfona	12.5	1.206606	25	1.204325	50	1.168982	62.5	1.203597				
N-ethyl perfluorooctanesulfonam	12.5	1.272167	25	1.356613	50	1.324927	62.5	1.369606				
N-MeFOSAA (NMeFOSAA)	12.5	0.4061705	25	0.421429	50	0.4220163	62.5	0.4262518				
N-EtFOSAA (NEtFOSAA)	12.5	1.206468	25	1.173341	50	1.286519	62.5	1.228944				
N-methylperfluorooctanesulfona	125	1.068791	250	1.054044	500	1.070249	625	1.009618				
N-ethylperfluorooctanesulfonam	125	1.105193	250	1.082109	500	1.077098	625	1.053286				
Hexafluoropropylene oxide dime	50	0.9027887	100	0.8962344	200	0.9364153	250	0.8953956				
4,8-Dioxa-3H-perfluorononanoic	47.2	7.387859	94.4	7.990188	189	8.686997	236	8.29201				

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

Draft Method 1633

Client: NYS Division of Environmental Remediation SDG: 24E1437

Project: Tivoli Memorial Park- CO 149634

Calibration: 2400518 Instrument: QQQ6

Calibration Date: 5/8/2024 12:00:51AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
		RF		RF		RF		RF		RF		RF
9Cl-PF3ONS (F53B Minor)	46.9	3.161808	93.8	3.055705	188	3.128172	234	3.058269				
11Cl-PF3OUdS (F53B Major)	47.2	2.781104	94.4	2.821121	189	2.839024	236	2.779355				
3-Perfluoropropyl propanoic acid	125	3.482154E-02	250	3.625415E-02	500	3.820936E-02	625	4.008047E-02				
2H,2H,3H,3H-Perfluorooctanoic	625	0.1001365	1250	0.1012577	2500	0.1004295	3120	0.1004226				
3-Perfluoroheptyl propanoic acid	625	0.1145586	1250	0.121715	2500	0.1242369	3120	0.1261114				
Perfluoro(2-ethoxyethane)sulfon	22.2	1.219714	44.5	1.226804	89	1.141475	111	1.122919				
Perfluoro-3-methoxypropanoic a	25	0.1047833	50	0.1086964	100	0.1130543	125	0.112926				
Perfluoro-4-methoxybutanoic ac	25	0.661383	50	0.6824258	100	0.7019121	125	0.6984084				
Nonafluoro-3,6-dioxaheptanoic	25	8.294405E-02	50	8.265057E-02	100	7.526436E-02	125	7.203815E-02				
13C4-PFBA	10	1.16221	10	1.124984	10	1.124008	10	1.120032				
13C5-PFPeA	5	1.000555	5	0.9504736	5	0.9023982	5	0.9025184				
13C5-PFHxA	2.5	1.108551	2.5	1.053303	2.5	1.042537	2.5	1.053652				
13C4-PFHpA	2.5	1.265303	2.5	1.20532	2.5	1.11109	2.5	1.133832				
13C8-PFOA	2.5	7.086125	2.5	7.028412	2.5	7.033653	2.5	7.02712				
13C9-PFNA	1.25	0.9040078	1.25	0.8976194	1.25	0.8684383	1.25	0.8789546				
13C6-PFDA	1.25	1.108155	1.25	0.9942674	1.25	0.9651789	1.25	0.9821484				
13C7-PFUnA	1.25	0.885344	1.25	0.8084825	1.25	0.7204567	1.25	0.731607				
13C2-PFDoA	1.25	0.9075741	1.25	0.8573751	1.25	0.8373131	1.25	0.8414212				
13C2-PFTeDA	1.25	0.7823326	1.25	0.7285957	1.25	0.76445	1.25	0.7622282				
13C3-PFBS	2.5	1.454119	2.5	1.312203	2.5	1.265374	2.5	1.156797				
13C3-PFHxS	2.5	1.079107	2.5	1.038082	2.5	1.064476	2.5	1.027343				
13C8-PFOS	2.5	0.9712199	2.5	0.9237419	2.5	0.9395496	2.5	0.9260413				
13C2-4:2FTS	5	0.2986554	5	0.2826512	5	0.271131	5	0.2694125				
13C2-6:2FTS	5	0.2109274	5	0.1938637	5	0.2022412	5	0.202336				
13C2-8:2FTS	5	0.1700388	5	0.1670167	5	0.1814835	5	0.1744966				
13C8-PFOSA	2.5	1.73277	2.5	1.579093	2.5	1.685595	2.5	1.766738				
D3-NMeFOSA	2.5	0.5490351	2.5	0.5205264	2.5	0.5614195	2.5	0.5777533				
D5-NEtFOSA	2.5	0.5895302	2.5	0.5179321	2.5	0.5431069	2.5	0.5409434				
D3-NMeFOSAA	5	1.831176	5	1.692866	5	1.773673	5	1.840483				
D5-NEtFOSAA	5	0.913516	5	0.8913309	5	0.8624785	5	0.9164409				
D7-NMeFOSE	25	0.6721175	25	0.6132707	25	0.5981209	25	0.6262221				

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

Draft Method 1633

Client: NYS Division of Environmental Remediation SDG: 24E1437

Project: Tivoli Memorial Park- CO 149634

Calibration: 2400518 Instrument: QQQ6

Calibration Date: 5/8/2024 12:00:51AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
		RF		RF		RF		RF		RF		RF
D9-NEtFOSE	25	0.7096526	25	0.6433177	25	0.6179316	25	0.6261633				
13C3-HFPO-DA	10	0.3131706	10	0.2892753	10	0.2525741	10	0.2517621				

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

Draft Method 1633

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Calibration:	2400518	Instrument:	QQQ6
		Calibration Date:	5/8/2024 12:00:51AM

COMPOUND	Mean RF	RF RSD	Linear r^2	Quad COD	LIMIT	Q
Perfluorobutanoic acid (PFBA)	0.9230632	7.2			20	
Perfluoropentanoic acid (PFPeA)	1.009825	5.8			20	
Perfluorohexanoic acid (PFHxA)	1.01642	4.5			20	
Perfluoroheptanoic acid (PFHpA)	1.042023	5.8			20	
Perfluorooctanoic acid (PFOA)	1.255142	5.9			20	
Perfluorononanoic acid (PFNA)	1.005098	6.9			20	
Perfluorodecanoic acid (PFDA)	1.030105	7.1			20	
Perfluoroundecanoic acid (PFUnA)	1.004618	7.9			20	
Perfluorododecanoic acid (PFDoA)	1.036105	6.8			20	
Perfluorotridecanoic acid (PFTrDA)	0.8826679	7.4			20	
Perfluorotetradecanoic acid (PFTeDA)	1.005763	6.1			20	
Perfluorobutanesulfonic acid (PFBS)	1.246289	6.7			20	
Perfluoropentanesulfonic acid (PFPeS)	1.295728	9.1			20	
Perfluorohexanesulfonic acid (PFHxS)	1.12749	8.2			20	
Perfluoroheptanesulfonic acid (PFHpS)	1.319448	5.7			20	
Perfluorooctanesulfonic acid (PFOS)	1.299092	11.9			20	
Perfluorononanesulfonic acid (PFNS)	1.017862	6.5			20	
Perfluorodecanesulfonic acid (PFDS)	0.8144733	8.3			20	
Perfluorododecanesulfonic acid (PFDoS)	0.4986549	7.5			20	
1H,1H,2H,2H-Perfluorohexane sulfonic acid (	2.915315	7.2			20	
1H,1H,2H,2H-Perfluorooctane sulfonic acid ((	3.387056	15.7			20	
1H,1H,2H,2H-Perfluorodecane sulfonic acid (	2.548636	9.1			20	
Perfluorooctanesulfonamide (PFOSA)	1.103835	5.1			20	
N-methyl perfluoroocatnesulfonamide (NMeF	1.210944	7.9			20	
N-ethyl perfluorooctanesulfonamide (NEtFOS	1.298802	6.5			20	
N-MeFOSAA (NMeFOSAA)	0.4240025	8.9			20	
N-EtFOSAA (NEtFOSAA)	1.21036	7.9			20	
N-methylperfluorooctanesulfonamidoethanol(	1.079448	7.3			20	
N-ethylperfluorooctanesulfonamidoethanol (N	1.116928	6.9			20	
Hexafluoropropylene oxide dimer acid (HFPC	0.9202454	7.8			20	
4,8-Dioxa-3H-perfluorononanoic acid (ADON	7.434924	11.2			20	

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

Draft Method 1633

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Calibration:	2400518	Instrument:	QQQ6
		Calibration Date:	5/8/2024 12:00:51AM

COMPOUND	Mean RF	RF RSD	Linear r^2	Quad COD	LIMIT	Q
9Cl-PF3ONS (F53B Minor)	3.288392	8.8			20	
11Cl-PF3OUdS (F53B Major)	2.952986	8.9			20	
3-Perfluoropropyl propanoic acid (FPrPA)(3:3	3.553835E-02	7.8			20	
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)	9.961691E-02	6.6			20	
3-Perfluoroheptyl propanoic acid (FHpPA)(7:3	0.117316	6.8			20	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEI	1.259028	10.1			20	
Perfluoro-3-methoxypropanoic acid (PFMPA)	0.1094335	7.7			20	
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.6884095	7.3			20	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA	8.451406E-02	10.5			20	
13C4-PFBA	1.085569	6.8			20	
13C5-PFPeA	0.9232685	7.1			20	
13C5-PFHxA	1.030198	6.8			20	
13C4-PFHpA	1.152357	7.5			20	
13C8-PFOA	6.853857	6.2			20	
13C9-PFNA	0.8524299	7.0			20	
13C6-PFDA	0.9862821	7.8			20	
13C7-PFUnA	0.7984683	8.4			20	
13C2-PFDoA	0.8241087	8.0			20	
13C2-PFTeDA	0.7095946	8.7			20	
13C3-PFBS	1.35117	8.9			20	
13C3-PFHxS	1.020951	7.3			20	
13C8-PFOS	0.8987725	7.2			20	
13C2-4:2FTS	0.2991766	10.0			20	
13C2-6:2FTS	0.2021627	7.9			20	
13C2-8:2FTS	0.1643288	8.2			20	
13C8-PFOSA	1.580736	9.0			20	
D3-NMeFOSA	0.5070093	10.3			20	
D5-NEtFOSA	0.5288652	7.7			20	
D3-NMeFOSAA	1.619524	10.9			20	
D5-NEtFOSAA	0.819503	10.7			20	
D7-NMeFOSE	0.6143202	7.1			20	

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

Draft Method 1633

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Calibration:	2400518	Instrument:	QQQ6
		Calibration Date:	5/8/2024 12:00:51AM

COMPOUND	Mean RF	RF RSD	Linear r^2	Quad COD	LIMIT	Q
D9-NEtFOSE	0.6573456	7.2			20	
13C3-HFPO-DA	0.2881606	9.6			20	

6 - FORM VI
INITIAL CALIBRATION DATA SHEET

Draft Method 1633

Client: NYS Division of Environmental Remediation SDG: 24E1437

Project: Tivoli Memorial Park- CO 149634

Calibration: 2400593 Instrument: QQQ5

Calibration Date: 5/28/2024 12:00:17AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
Perfluorobutanoic acid (PFBA)	0.4	0.8034681	0.8	0.8670976	2	1.024258	5	0.8759611	10	0.8986206	20	0.916437
Perfluoropentanoic acid (PFPeA	0.2	0.8262911	0.4	0.949918	1	1.144124	2.5	0.9470554	5	0.9591843	10	0.9802022
Perfluorohexanoic acid (PFHxA)	0.1	0.8382518	0.2	0.9061576	0.5	1.186883	1.25	0.9406713	2.5	0.9608666	5	0.9557475
Perfluoroheptanoic acid (PFHpA	0.1	0.8596684	0.2	1.032399	0.5	1.168764	1.25	0.9963879	2.5	1.004629	5	1.023411
Perfluorooctanoic acid (PFOA)	0.1	0.9979968	0.2	1.205104	0.5	1.398187	1.25	1.100148	2.5	1.102034	5	1.128
Perfluorononanoic acid (PFNA)	0.1	0.7844207	0.2	0.9256379	0.5	1.156634	1.25	0.9604788	2.5	0.9551341	5	0.9956985
Perfluorodecanoic acid (PFDA)	0.1	0.7603691	0.2	0.9235003	0.5	1.143811	1.25	0.9606092	2.5	0.9519666	5	0.9848208
Perfluoroundecanoic acid (PFUr	0.1	0.8002521	0.2	0.9581758	0.5	1.092862	1.25	0.9299381	2.5	0.9621846	5	0.9577171
Perfluorododecanoic acid (PFDo	0.1	0.8304774	0.2	0.9865063	0.5	1.193308	1.25	0.9791532	2.5	0.966132	5	1.004623
Perfluorotridecanoic acid (PFTrI	0.1	0.900434	0.2	1.003181	0.5	1.239459	1.25	0.9865542	2.5	1.001952	5	1.042635
Perfluorotetradecanoic acid (PF	0.1	0.828597	0.2	0.9169131	0.5	1.145159	1.25	0.9599401	2.5	0.9548617	5	0.9779442
Perfluorobutanesulfonic acid (PI	0.0888	0.9028385	0.178	1.212254	0.444	1.398425	1.11	1.137737	2.22	1.135206	4.44	1.16946
Perfluoropentanesulfonic acid (P	0.094	1.045128	0.188	1.431517	0.47	1.500165	1.18	1.309182	2.35	1.29203	4.7	1.366579
Perfluorohexanesulfonic acid (P	0.0915	1.163332	0.183	1.253906	0.458	1.353679	1.14	1.083735	2.29	1.100902	4.58	1.161368
Perfluoroheptanesulfonic acid (P	0.0952	0.9988218	0.19	1.133102	0.476	1.471156	1.19	1.18259	2.38	1.211093	4.76	1.21943
Perfluorooctanesulfonic acid (PF	0.0928	1.118829	0.186	1.278144	0.464	1.376323	1.16	1.115177	2.32	1.166298	4.64	1.180164
Perfluorononanesulfonic acid (P	0.0962	0.8983371	0.192	1.098552	0.481	1.255236	1.2	1.029736	2.41	1.063854	4.81	1.077683
Perfluorodecanesulfonic acid (P	0.0965	0.7518271	0.193	0.9118373	0.482	1.035837	1.21	0.8322134	2.41	0.8675472	4.82	0.8629782
Perfluorododecanesulfonic acid	0.097	0.5158586	0.194	0.6024365	0.485	0.7455738	1.21	0.5819556	2.42	0.6094698	4.85	0.6125515
1H,1H,2H,2H-Perfluorohexane s	0.375	2.72709	0.75	3.173447	1.88	3.746688	4.69	3.015414	9.38	3.063331	18.8	3.144687
1H,1H,2H,2H-Perfluorooctane s	0.38	2.428712	0.76	2.879004	1.9	3.3285	4.75	2.76839	9.5	2.711668	19	2.959598
1H,1H,2H,2H-Perfluorodecane s	0.385	1.561171	0.77	1.689466	1.92	2.152121	4.81	1.801761	9.62	1.78667	19.2	1.790555
Perfluorooctanesulfonamide (PF	0.1	0.9133168	0.2	1.083229	0.5	1.246851	1.25	1.029661	2.5	1.050602	5	1.079307
N-methyl perfluoroocatnesulfona	0.1	1.110333	0.2	1.164528	0.5	1.359159	1.25	1.1539	2.5	1.129477	5	1.169396
N-ethyl perfluorooctanesulfonam	0.1	1.088593	0.2	1.265874	0.5	1.555508	1.25	1.261086	2.5	1.289526	5	1.32525
N-MeFOSAA (NMeFOSAA)	0.1	0.3080196	0.2	0.3394904	0.5	0.4115227	1.25	0.3525263	2.5	0.3326406	5	0.3591572
N-EtFOSAA (NEtFOSAA)	0.1	0.8544799	0.2	1.099171	0.5	1.216181	1.25	1.054461	2.5	1.042856	5	1.038377
N-methylperfluorooctanesulfona	1	1.000152	2	1.089402	5	1.361562	12.5	1.074894	25	1.123005	50	1.116141
N-ethylperfluorooctanesulfonam	1	1.018933	2	1.136951	5	1.359751	12.5	1.100523	25	1.158029	50	1.181705
Hexafluoropropylene oxide dime	0.4	0.6397923	0.8	0.8817823	2	1.00418	5	0.8386013	10	0.7999479	20	0.8627083
4,8-Dioxa-3H-perfluorononanoic	0.378	5.471404	0.755	7.191886	1.89	8.249667	4.72	7.036151	9.44	6.585803	18.9	7.209946

6 - FORM VI
INITIAL CALIBRATION DATA SHEET

Draft Method 1633

Client: NYS Division of Environmental Remediation SDG: 24E1437

Project: Tivoli Memorial Park- CO 149634

Calibration: 2400593 Instrument: QQQ5

Calibration Date: 5/28/2024 12:00:17AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
9Cl-PF3ONS (F53B Minor)	0.375	4.45059	0.75	5.764964	1.88	6.634708	4.69	5.699954	9.38	5.262336	18.8	5.631719
11Cl-PF3OUdS (F53B Major)	0.378	2.856674	0.755	3.844797	1.89	4.549541	4.72	3.814354	9.44	3.558792	18.9	3.786384
3-Perfluoropropyl propanoic acid	1	3.401047E-02	2	3.918049E-02	5	4.871243E-02	12.5	3.946231E-02	25	0.0415471	50	4.455989E-02
2H,2H,3H,3H-Perfluorooctanoic	5	9.945727E-02	10	0.1155134	25	0.1429939	62.5	0.1196629	125	0.1229357	250	0.1276412
3-Perfluoroheptyl propanoic acid	5	0.1177388	10	0.1424348	25	0.172644	62.5	0.1438373	125	0.1519496	250	0.1547365
Perfluoro(2-ethoxyethane)sulfon	0.178	1.235109	0.356	1.452015	0.89	1.81748	2.22	1.524906	4.45	1.474763	8.9	1.450142
Perfluoro-3-methoxypropanoic a	0.2	5.948529E-02	0.4	7.196437E-02	1	8.192404E-02	2.5	6.956503E-02	5	6.516563E-02	10	6.566808E-02
Perfluoro-4-methoxybutanoic ac	0.2	0.526787	0.4	0.6243975	1	0.8089254	2.5	0.6659667	5	0.6340114	10	0.6375495
Nonafluoro-3,6-dioxaheptanoic a	0.2	7.174638E-02	0.4	6.588923E-02	1	9.023596E-02	2.5	6.944473E-02	5	6.988483E-02	10	6.742337E-02
13C4-PFBA	10	1.155222	10	1.048758	10	0.9004672	10	1.066097	10	1.124441	10	1.083208
13C5-PFPeA	5	0.8591669	5	0.7857377	5	0.6355936	5	0.766606	5	0.8023091	5	0.7804351
13C5-PFHxA	2.5	1.143745	2.5	1.053644	2.5	0.8611787	2.5	1.029452	2.5	1.081486	2.5	1.059928
13C4-PFHpA	2.5	1.459572	2.5	1.329344	2.5	1.100759	2.5	1.301153	2.5	1.424222	2.5	1.382473
13C8-PFOA	2.5	8.648563	2.5	7.623904	2.5	6.426446	2.5	8.058906	2.5	8.606419	2.5	7.952282
13C9-PFNA	1.25	0.8221042	1.25	0.7285297	1.25	0.6369586	1.25	0.7521003	1.25	0.7872833	1.25	0.7561721
13C6-PFDA	1.25	1.061147	1.25	1.017174	1.25	0.7942501	1.25	0.9442902	1.25	1.033976	1.25	1.040101
13C7-PFUnA	1.25	0.9819807	1.25	0.9261904	1.25	0.7650697	1.25	0.9034995	1.25	0.9469723	1.25	0.9690012
13C2-PFDoA	1.25	0.9792984	1.25	0.9161058	1.25	0.7644976	1.25	0.9349438	1.25	1.002942	1.25	0.9789283
13C2-PFTeDA	1.25	1.351375	1.25	1.279749	1.25	1.012471	1.25	1.208955	1.25	1.362347	1.25	1.298292
13C3-PFBS	2.5	1.649608	2.5	1.523443	2.5	1.215628	2.5	1.489343	2.5	1.530152	2.5	1.508873
13C3-PFHxS	2.5	1.094444	2.5	1.005002	2.5	0.8505515	2.5	0.9925235	2.5	1.061236	2.5	1.024562
13C8-PFOS	2.5	0.9724401	2.5	0.9127782	2.5	0.7646024	2.5	0.8951247	2.5	0.930741	2.5	0.9209525
13C2-4:2FTS	5	1.343938	5	1.243418	5	1.018515	5	1.219976	5	1.222006	5	1.300154
13C2-6:2FTS	5	1.152989	5	1.07873	5	0.8858776	5	1.067683	5	1.146249	5	1.178325
13C2-8:2FTS	5	0.6598054	5	0.6514996	5	0.5300874	5	0.6328181	5	0.7022387	5	0.7174639
13C8-PFOSA	2.5	1.805003	2.5	1.657126	2.5	1.393965	2.5	1.617595	2.5	1.680933	2.5	1.679057
D3-NMeFOSA	2.5	0.5541835	2.5	0.4871616	2.5	0.4266842	2.5	0.49453	2.5	0.5406665	2.5	0.5326714
D5-NEtFOSA	2.5	0.5981881	2.5	0.5208886	2.5	0.4512983	2.5	0.5211977	2.5	0.5552127	2.5	0.5589359
D3-NMeFOSAA	5	1.986923	5	1.902044	5	1.57817	5	1.832661	5	1.964921	5	1.861306
D5-NEtFOSAA	5	0.9672701	5	0.8981135	5	0.7392775	5	0.8923423	5	0.9555577	5	0.9388869
D7-NMeFOSE	25	0.5194022	25	0.4753767	25	0.4047206	25	0.4698157	25	0.5150341	25	0.5109604

6 - FORM VI
INITIAL CALIBRATION DATA SHEET

Draft Method 1633

Client: NYS Division of Environmental Remediation SDG: 24E1437

Project: Tivoli Memorial Park- CO 149634

Calibration: 2400593 Instrument: QQQ5

Calibration Date: 5/28/2024 12:00:17AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
D9-NEtFOSE	25	0.5677285	25	0.4898113	25	0.4461236	25	0.5136085	25	0.5504554	25	0.5367938
13C3-HFPO-DA	10	0.3391112	10	0.3159454	10	0.254382	10	0.300926	10	0.3162777	10	0.309774

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

Draft Method 1633

Client: NYS Division of Environmental Remediation SDG: 24E1437

Project: Tivoli Memorial Park- CO 149634

Calibration: 2400593 Instrument: QQQ5

Calibration Date: 5/28/2024 12:00:17AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
		RF		RF		RF		RF		RF		RF
Perfluorobutanoic acid (PFBA)	50	0.9269982	100	0.9211195	200	0.925119	250	0.8963641				
Perfluoropentanoic acid (PFPeA	25	0.9816237	50	1.000579	100	1.033692	125	1.02887				
Perfluorohexanoic acid (PFHxA)	12.5	0.9657589	25	0.9823972	50	1.050832	62.5	1.008723				
Perfluoroheptanoic acid (PFHpA	12.5	1.013439	25	1.051661	50	1.105724	62.5	1.095085				
Perfluorooctanoic acid (PFOA)	12.5	1.102314	25	1.108173	50	1.172426	62.5	1.165245				
Perfluorononanoic acid (PFNA)	12.5	0.9747308	25	0.9919711	50	1.064635	62.5	1.038208				
Perfluorodecanoic acid (PFDA)	12.5	0.9928425	25	0.9913731	50	1.040166	62.5	1.042287				
Perfluoroundecanoic acid (PFU	12.5	0.9350292	25	0.9698357	50	1.030851	62.5	1.054854				
Perfluorododecanoic acid (PFD	12.5	1.025974	25	1.011807	50	1.033672	62.5	1.005565				
Perfluorotridecanoic acid (PFTr	12.5	1.022888	25	1.049284	50	1.087815	62.5	1.058164				
Perfluorotetradecanoic acid (PF	12.5	0.9759119	25	0.9797937	50	0.988458	62.5	0.9506802				
Perfluorobutanesulfonic acid (P	11.1	1.183694	22.2	1.215114	44.4	1.230455	55.5	1.208451				
Perfluoropentanesulfonic acid (P	11.8	1.365691	23.5	1.377513	47	1.431491	58.8	1.42564				
Perfluorohexanesulfonic acid (P	11.4	1.153226	22.9	1.183782	45.8	1.229774	57.2	1.227988				
Perfluoroheptanesulfonic acid (P	11.9	1.211515	23.8	1.196305	47.6	1.216339	59.5	1.188144				
Perfluorooctanesulfonic acid (PF	11.6	1.19539	23.2	1.192303	46.4	1.245521	58	1.2501				
Perfluorononanesulfonic acid (P	12	1.091715	24.1	1.079806	48.1	1.098624	60.2	1.075133				
Perfluorodecanesulfonic acid (P	12.1	0.871058	24.1	0.8641739	48.2	0.8765069	60.3	0.8709331				
Perfluorododecanesulfonic acid	12.1	0.6184294	24.2	0.6018229	48.5	0.6038629	60.6	0.6142573				
1H,1H,2H,2H-Perfluorohexane s	46.9	3.129746	93.8	~~3.067838~~	188	~~2.988013~~	234	~~2.880112~~				
1H,1H,2H,2H-Perfluorooctane s	47.5	2.822452	95	~~2.705854~~	190	~~2.63372~~	238	~~2.468038~~				
1H,1H,2H,2H-Perfluorodecane s	48.1	1.765127	96.2	~~1.692192~~	192	~~1.521579~~	241	~~1.497615~~				
Perfluorooctanesulfonamide (PF	12.5	1.073204	25	1.076865	50	1.115082	62.5	1.101266				
N-methyl perfluoroocatnesulfona	12.5	1.165937	25	1.178922	50	1.185298	62.5	1.116801				
N-ethyl perfluorooctanesulfonam	12.5	1.319481	25	1.369181	50	1.382273	62.5	1.376544				
N-MeFOSAA (NMeFOSAA)	12.5	0.3688836	25	0.38256	50	0.3988418	62.5	0.3930737				
N-EtFOSAA (NEtFOSAA)	12.5	1.032899	25	1.078501	50	1.091052	62.5	1.063729				
N-methylperfluorooctanesulfona	125	1.115098	250	1.102061	500	1.107751	625	1.108925				
N-ethylperfluorooctanesulfonam	125	1.152119	250	1.161211	500	1.106928	625	1.104698				
Hexafluoropropylene oxide dime	50	0.8489031	100	0.8897065	200	0.8868151	250	0.8851576				
4,8-Dioxa-3H-perfluorononanoic	47.2	7.167545	94.4	8.329296	189	8.876763	236	9.047021				

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

Draft Method 1633

Client: NYS Division of Environmental Remediation SDG: 24E1437

Project: Tivoli Memorial Park- CO 149634

Calibration: 2400593 Instrument: QQQ5

Calibration Date: 5/28/2024 12:00:17AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
		RF		RF		RF		RF		RF		RF
9Cl-PF3ONS (F53B Minor)	46.9	5.39172	93.8	5.799274	188	5.803491	234	6.122157				
11Cl-PF3OUdS (F53B Major)	47.2	3.604806	94.4	3.899691	189	3.869975	236	4.055078				
3-Perfluoropropyl propanoic acid	125	4.476863E-02	250	4.653033E-02	500	4.904854E-02	625	5.160843E-02				
2H,2H,3H,3H-Perfluorooctanoic	625	0.1276468	1250	0.1347035	2500	0.1469278	3120	0.1463633				
3-Perfluoroheptyl propanoic acid	625	0.1563331	1250	0.1745242	2500	0.1983409	3120	0.1952824				
Perfluoro(2-ethoxyethane)sulfon	22.2	1.438354	44.5	1.440958	89	1.462047	111	1.374894				
Perfluoro-3-methoxypropanoic a	25	6.687063E-02	50	7.108447E-02	100	7.196443E-02	125	7.320759E-02				
Perfluoro-4-methoxybutanoic ac	25	0.6509367	50	0.6683982	100	0.6870416	125	0.6790645				
Nonafluoro-3,6-dioxaheptanoic	25	6.755606E-02	50	6.740671E-02	100	6.798637E-02	125	6.278144E-02				
13C4-PFBA	10	1.210685	10	1.088476	10	1.133598	10	1.111783				
13C5-PFPeA	5	0.8161051	5	0.7970344	5	0.8093571	5	0.8022433				
13C5-PFHxA	2.5	1.116352	2.5	1.090438	2.5	1.0661	2.5	1.090209				
13C4-PFHpA	2.5	1.44011	2.5	1.452496	2.5	1.472096	2.5	1.456353				
13C8-PFOA	2.5	8.846641	2.5	8.81251	2.5	8.503354	2.5	8.322237				
13C9-PFNA	1.25	0.8274909	1.25	0.8102916	1.25	0.784179	1.25	0.7860591				
13C6-PFDA	1.25	1.057253	1.25	1.042712	1.25	1.010793	1.25	0.9518611				
13C7-PFUnA	1.25	1.003284	1.25	0.9733194	1.25	0.9462848	1.25	0.890125				
13C2-PFDoA	1.25	1.012571	1.25	1.001164	1.25	1.015895	1.25	0.9983023				
13C2-PFTeDA	1.25	1.352416	1.25	1.342248	1.25	1.372657	1.25	1.370998				
13C3-PFBS	2.5	1.598657	2.5	1.479066	2.5	1.458272	2.5	1.393523				
13C3-PFHxS	2.5	1.097824	2.5	1.060621	2.5	1.055318	2.5	1.017696				
13C8-PFOS	2.5	0.9853062	2.5	0.980597	2.5	0.9485239	2.5	0.9616128				
13C2-4:2FTS	5	1.56111	5	~~1.864751~~	5	~~2.67146~~	5	~~2.985586~~				
13C2-6:2FTS	5	1.408877	5	~~1.75406~~	5	~~2.536175~~	5	~~2.71456~~				
13C2-8:2FTS	5	0.8852701	5	~~1.082734~~	5	~~1.565304~~	5	~~1.699288~~				
13C8-PFOSA	2.5	1.810562	2.5	1.732832	2.5	1.667377	2.5	1.711057				
D3-NMeFOSA	2.5	0.5898334	2.5	0.5651762	2.5	0.6155726	2.5	0.6671911				
D5-NEtFOSA	2.5	0.6026497	2.5	0.5714905	2.5	0.5906426	2.5	0.6017444				
D3-NMeFOSAA	5	1.975028	5	1.902856	5	1.776656	5	1.79888				
D5-NEtFOSAA	5	1.021193	5	0.971304	5	0.9504038	5	0.9671926				
D7-NMeFOSE	25	0.5462207	25	0.5346332	25	0.539406	25	0.5498306				

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

Draft Method 1633

Client: NYS Division of Environmental Remediation SDG: 24E1437

Project: Tivoli Memorial Park- CO 149634

Calibration: 2400593 Instrument: QQQ5

Calibration Date: 5/28/2024 12:00:17AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
		RF		RF		RF		RF		RF		RF
D9-NEtFOSE	25	0.5904388	25	0.5627559	25	0.5770526	25	0.5855909				
13C3-HFPO-DA	10	0.3257152	10	0.2950473	10	0.2994548	10	0.2812247				

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

Draft Method 1633

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Calibration:	2400593	Instrument:	QQQ5
		Calibration Date:	5/28/2024 12:00:17AM

COMPOUND	Mean RF	RF RSD	Linear r^2	Quad COD	LIMIT	Q
Perfluorobutanoic acid (PFBA)	0.9055443	6.2			20	
Perfluoropentanoic acid (PFPeA)	0.985154	8.2			20	
Perfluorohexanoic acid (PFHxA)	0.9796289	9.4			20	
Perfluoroheptanoic acid (PFHpA)	1.035117	7.9			20	
Perfluorooctanoic acid (PFOA)	1.147963	9.1			20	
Perfluorononanoic acid (PFNA)	0.9847549	9.8			20	
Perfluorodecanoic acid (PFDA)	0.9791746	10.1			20	
Perfluoroundecanoic acid (PFUnA)	0.96917	8.3			20	
Perfluorododecanoic acid (PFDoA)	1.003722	8.8			20	
Perfluorotridecanoic acid (PFTrDA)	1.039237	8.4			20	
Perfluorotetradecanoic acid (PFTeDA)	0.9678259	8.1			20	
Perfluorobutanesulfonic acid (PFBS)	1.179363	10.3			20	
Perfluoropentanesulfonic acid (PFPeS)	1.354494	9.2			20	
Perfluorohexanesulfonic acid (PFHxS)	1.191169	6.6			20	
Perfluoroheptanesulfonic acid (PFHpS)	1.20285	9.6			20	
Perfluorooctanesulfonic acid (PFOS)	1.211825	6.5			20	
Perfluorononanesulfonic acid (PFNS)	1.076868	8.0			20	
Perfluorodecanesulfonic acid (PFDS)	0.8744912	8.0			20	
Perfluorododecanesulfonic acid (PFDoS)	0.6106218	9.2			20	
1H,1H,2H,2H-Perfluorohexane sulfonic acid (	3.142915	9.7			20	
1H,1H,2H,2H-Perfluorooctane sulfonic acid ((	2.842618	9.6			20	
1H,1H,2H,2H-Perfluorodecane sulfonic acid (	1.79241	10.0			20	
Perfluorooctanesulfonamide (PFOSA)	1.076938	7.6			20	
N-methyl perfluoroocatnesulfonamide (NMeF	1.173375	6.0			20	
N-ethyl perfluorooctanesulfonamide (NEtFOS	1.323332	8.9			20	
N-MeFOSAA (NMeFOSAA)	0.3646716	8.9			20	
N-EtFOSAA (NEtFOSAA)	1.057171	8.4			20	
N-methylperfluorooctanesulfonamidoethanol(	1.119899	8.2			20	
N-ethylperfluorooctanesulfonamidoethanol (N	1.148085	7.6			20	
Hexafluoropropylene oxide dimer acid (HFPC	0.8537594	10.7			20	
4,8-Dioxa-3H-perfluorononanoic acid (ADON	7.516548	14.7			20	

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

Draft Method 1633

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Calibration:	2400593	Instrument:	QQQ5
		Calibration Date:	5/28/2024 12:00:17AM

COMPOUND	Mean RF	RF RSD	Linear r^2	Quad COD	LIMIT	Q
9Cl-PF3ONS (F53B Minor)	5.656091	10.1			20	
11Cl-PF3OUdS (F53B Major)	3.784009	11.2			20	
3-Perfluoropropyl propanoic acid (FPrPA)(3:3	4.394286E-02	12.3			20	
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)	0.1283846	11.7			20	
3-Perfluoroheptyl propanoic acid (FHpPA)(7:3	0.1607822	15.4			20	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEI	1.467067	9.9			20	
Perfluoro-3-methoxypropanoic acid (PFMPA)	6.968996E-02	8.6			20	
Perfluoro-4-methoxybutanoic acid (PFMBA)	0.6583079	10.6			20	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA	7.003551E-02	10.7			20	
13C4-PFBA	1.092274	7.5			20	
13C5-PFPeA	0.7854588	7.4			20	
13C5-PFHxA	1.059253	7.2			20	
13C4-PFHpA	1.381858	8.3			20	
13C8-PFOA	8.180126	8.9			20	
13C9-PFNA	0.7691169	7.3			20	
13C6-PFDA	0.9953557	8.2			20	
13C7-PFUnA	0.9305727	7.3			20	
13C2-PFDoA	0.9604648	7.9			20	
13C2-PFTeDA	1.295151	8.6			20	
13C3-PFBS	1.484657	8.0			20	
13C3-PFHxS	1.025978	6.9			20	
13C8-PFOS	0.9272679	7.0			20	
13C2-4:2FTS	1.272731	12.8			20	
13C2-6:2FTS	1.131247	13.8			20	
13C2-8:2FTS	0.6827405	15.8			20	
13C8-PFOSA	1.675551	7.0			20	
D3-NMeFOSA	0.547367	12.5			20	
D5-NEtFOSA	0.5572248	8.6			20	
D3-NMeFOSAA	1.857945	6.6			20	
D5-NEtFOSAA	0.9301541	8.2			20	
D7-NMeFOSE	0.50654	8.9			20	

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

Draft Method 1633

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Calibration:	2400593	Instrument:	QQQ5
		Calibration Date:	5/28/2024 12:00:17AM

COMPOUND	Mean RF	RF RSD	Linear r^2	Quad COD	LIMIT	Q
D9-NEtFOSE	0.5420359	8.6			20	
13C3-HFPO-DA	0.3037858	7.9			20	

INITIAL CALIBRATION STANDARDS

Draft Method 1633

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Sequence:	S104276	Instrument:	QQQ6
Calibration:	2400518		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
24E0154	DM1633 CAL 1	S104276-CAL1	CAL1_1633_050824.d	05/08/24 18:16
24E0155	DM1633 CAL 2	S104276-CAL2	CAL2_1633_050824.d	05/08/24 18:32
24E0156	DM1633 CAL 3	S104276-CAL3	CAL3_1633_050824.d	05/08/24 18:48
24E0157	DM1633 CAL 4	S104276-CAL4	CAL4_1633_050824.d	05/08/24 19:03
24E0158	DM1633 CAL 5	S104276-CAL5	CAL5_1633_050824.d	05/08/24 19:19
24E0159	DM1633 CAL 6	S104276-CAL6	CAL6_1633_050824.d	05/08/24 19:35
24E0160	DM1633 CAL 7	S104276-CAL7	CAL7_1633_050824.d	05/08/24 19:50
24E0161	DM1633 CAL 8	S104276-CAL8	CAL8_1633_050824.d	05/08/24 20:06
24E0162	DM1633 CAL 9	S104276-CAL9	CAL9_1633_050824.d	05/08/24 20:22
24E0163	DM1633 CAL 10	S104276-CALA	CALA_1633_050824.d	05/08/24 20:37

Quantitative Analysis Complete Report

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:46 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/9/2024 9:16 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

REVIEWED
By RRB at 10:33 am, 5/9/24

Data File	Sample Name	Sample Type	Position	Inj Vol	Level	Acq. Method
CAL1_1633_050824.d	CAL1_1633_050824	Cal	P4-A1	4	1	1633_ACQUISITION_01.m
CAL2_1633_050824.d	CAL2_1633_050824	Cal	P4-A2	4	2	1633_ACQUISITION_01.m
CAL3_1633_050824.d	CAL3_1633_050824	Cal	P4-A3	4	3	1633_ACQUISITION_01.m
CAL4_1633_050824.d	CAL4_1633_050824	Cal	P4-A4	4	4	1633_ACQUISITION_01.m
CAL5_1633_050824.d	CAL5_1633_050824	Cal	P4-A5	4	5	1633_ACQUISITION_01.m
CAL6_1633_050824.d	CAL6_1633_050824	Cal	P4-A6	4	6	1633_ACQUISITION_01.m
CAL7_1633_050824.d	CAL7_1633_050824	Cal	P4-A7	4	7	1633_ACQUISITION_01.m
CAL8_1633_050824.d	CAL8_1633_050824	Cal	P4-A8	4	8	1633_ACQUISITION_01.m
CAL9_1633_050824.d	CAL9_1633_050824	Cal	P4-A9	4	9	1633_ACQUISITION_01.m
CALA_1633_050824.d	CALA_1633_050824	Cal	P4-B1	4	10	1633_ACQUISITION_01.m
IBL1_1633_050824.d	IBL1_1633_050824	Sample	P4-B2	4		1633_ACQUISITION_01.m
ICV_1633_050824.d	ICV_1633_050824	QC	P4-B3	4	ICV	1633_ACQUISITION_01.m
BIC_1633_050824.d	BIC_1633_050824	Sample	P4-B4	4		1633_ACQUISITION_01.m

Quantitation Results

PFBA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	PFBA	13C4-PFBA - ISTD	Calibration	1.754	22837	648219	0.0352	0.3817	0.4000	95.4
CAL2_1633_050824.d	PFBA	13C4-PFBA - ISTD	Calibration	1.762	46248	643099	0.0719	0.7791	0.8000	97.4
CAL3_1633_050824.d	PFBA	13C4-PFBA - ISTD	Calibration	1.762	119935	545772	0.2198	2.3807	2.0000	119.0
CAL4_1633_050824.d	PFBA	13C4-PFBA - ISTD	Calibration	1.762	292165	668414	0.4371	4.7353	5.0000	94.7
CAL5_1633_050824.d	PFBA	13C4-PFBA - ISTD	Calibration	1.762	631906	720778	0.8767	9.4977	10.0000	95.0
CAL6_1633_050824.d	PFBA	13C4-PFBA - ISTD	Calibration	1.762	1259105	697255	1.8058	19.5631	20.0000	97.8
CAL7_1633_050824.d	PFBA	13C4-PFBA - ISTD	Calibration	1.762	3164109	704675	4.4902	48.6442	50.0000	97.3
CAL8_1633_050824.d	PFBA	13C4-PFBA - ISTD	Calibration	1.762	6022716	656561	9.1731	99.3770	100.0000	99.4
CAL9_1633_050824.d	PFBA	13C4-PFBA - ISTD	Calibration	1.762	11436818	606232	18.8654	204.3784	200.0000	102.2
CALA_1633_050824.d	PFBA	13C4-PFBA - ISTD	Calibration	1.762	13740648	584850	23.4943	254.5255	250.0000	101.8
IBL1_1633_050824.d	PFBA	13C4-PFBA - ISTD	Sample	1.762	0	664864	0.0000	ND		
ICV_1633_050824.d	PFBA	13C4-PFBA - ISTD	QC	1.762	586480	663160	0.8844	9.5808	10.0000	95.8
BIC_1633_050824.d	PFBA	13C4-PFBA - ISTD	Sample	1.754	6350	806103	0.0079	0.0853		

13C4-PFBA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	13C4-PFBA	13C3-PFBA	Calibration	1.757	648219	300494	2.1572	9.9357	10.0000	99.4
CAL2_1633_050824.d	13C4-PFBA	13C3-PFBA	Calibration	1.765	643099	304299	2.1134	9.7340	10.0000	97.3
CAL3_1633_050824.d	13C4-PFBA	13C3-PFBA	Calibration	1.765	545772	304691	1.7912	8.2502	10.0000	82.5
CAL4_1633_050824.d	13C4-PFBA	13C3-PFBA	Calibration	1.765	668414	311064	2.1488	9.8971	10.0000	99.0

13C4-PFBA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL5_1633_050824.d	13C4-PFBA	13C3-PFBA	Calibration	1.765	720778	320517	2.2488	10.3577	10.0000	103.6
CAL6_1633_050824.d	13C4-PFBA	13C3-PFBA	Calibration	1.765	697255	318451	2.1895	10.0847	10.0000	100.8
CAL7_1633_050824.d	13C4-PFBA	13C3-PFBA	Calibration	1.765	704675	303162	2.3244	10.7060	10.0000	107.1
CAL8_1633_050824.d	13C4-PFBA	13C3-PFBA	Calibration	1.765	656561	291809	2.2500	10.3631	10.0000	103.6
CAL9_1633_050824.d	13C4-PFBA	13C3-PFBA	Calibration	1.757	606232	269674	2.2480	10.3541	10.0000	103.5
CALA_1633_050824.d	13C4-PFBA	13C3-PFBA	Calibration	1.765	584850	261086	2.2401	10.3175	10.0000	103.2
IBL1_1633_050824.d	13C4-PFBA	13C3-PFBA	Sample	1.765	664864	302419	2.1985	10.1259		
ICV_1633_050824.d	13C4-PFBA	13C3-PFBA	QC	1.757	663160	306468	2.1639	9.9666	10.0000	99.7
BIC_1633_050824.d	13C4-PFBA	13C3-PFBA	Sample	1.757	806103	317483	2.5390	11.6945		

PFMPA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	PFMPA	13C5-PFPeA - ISTD	Calibration	2.267	1865	397400	0.0047	0.2144	0.2000	107.2
CAL2_1633_050824.d	PFMPA	13C5-PFPeA - ISTD	Calibration	2.275	3261	396909	0.0082	0.3754	0.4000	93.8
CAL3_1633_050824.d	PFMPA	13C5-PFPeA - ISTD	Calibration	2.275	8516	334310	0.0255	1.1638	1.0000	116.4
CAL4_1633_050824.d	PFMPA	13C5-PFPeA - ISTD	Calibration	2.267	21502	408200	0.0527	2.4068	2.5000	96.3
CAL5_1633_050824.d	PFMPA	13C5-PFPeA - ISTD	Calibration	2.267	44628	442868	0.1008	4.6042	5.0000	92.1
CAL6_1633_050824.d	PFMPA	13C5-PFPeA - ISTD	Calibration	2.267	86277	425445	0.2028	9.2656	10.0000	92.7
CAL7_1633_050824.d	PFMPA	13C5-PFPeA - ISTD	Calibration	2.267	224659	428808	0.5239	23.9377	25.0000	95.8
CAL8_1633_050824.d	PFMPA	13C5-PFPeA - ISTD	Calibration	2.267	436585	401656	1.0870	49.6632	50.0000	99.3
CAL9_1633_050824.d	PFMPA	13C5-PFPeA - ISTD	Calibration	2.267	832627	368242	2.2611	103.3087	100.0000	103.3
CALA_1633_050824.d	PFMPA	13C5-PFPeA - ISTD	Calibration	2.267	1004642	355859	2.8231	128.9893	125.0000	103.2
IBL1_1633_050824.d	PFMPA	13C5-PFPeA - ISTD	Sample	2.283	0	409092	0.0000	ND		
ICV_1633_050824.d	PFMPA	13C5-PFPeA - ISTD	QC	2.267	86167	404755	0.2129	9.7267	10.0000	97.3
BIC_1633_050824.d	PFMPA	13C5-PFPeA - ISTD	Sample	2.275	0	495705	0.0000	ND		

3:3FTCA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	3:3FTCA	13C5-PFPeA - ISTD	Calibration	2.532	2502	397400	0.0063	0.8858	1.0000	88.6
CAL2_1633_050824.d	3:3FTCA	13C5-PFPeA - ISTD	Calibration	2.557	5479	396909	0.0138	1.9422	2.0000	97.1
CAL3_1633_050824.d	3:3FTCA	13C5-PFPeA - ISTD	Calibration	2.566	13032	334310	0.0390	5.4843	5.0000	109.7
CAL4_1633_050824.d	3:3FTCA	13C5-PFPeA - ISTD	Calibration	2.566	33457	408200	0.0820	11.5316	12.5000	92.3
CAL5_1633_050824.d	3:3FTCA	13C5-PFPeA - ISTD	Calibration	2.557	74862	442868	0.1690	23.7826	25.0000	95.1
CAL6_1633_050824.d	3:3FTCA	13C5-PFPeA - ISTD	Calibration	2.557	146582	425445	0.3445	48.4742	50.0000	96.9
CAL7_1633_050824.d	3:3FTCA	13C5-PFPeA - ISTD	Calibration	2.566	373294	428808	0.8705	122.4788	125.0000	98.0
CAL8_1633_050824.d	3:3FTCA	13C5-PFPeA - ISTD	Calibration	2.574	728084	401656	1.8127	255.0354	250.0000	102.0
CAL9_1633_050824.d	3:3FTCA	13C5-PFPeA - ISTD	Calibration	2.590	1407030	368242	3.8209	537.5795	500.0000	107.5
CALA_1633_050824.d	3:3FTCA	13C5-PFPeA - ISTD	Calibration	2.582	1782871	355859	5.0101	704.8804	625.0000	112.8
IBL1_1633_050824.d	3:3FTCA	13C5-PFPeA - ISTD	Sample	2.532	0	409092	0.0000	ND		
ICV_1633_050824.d	3:3FTCA	13C5-PFPeA - ISTD	QC	2.557	25332	404755	0.0626	8.8054	10.0000	88.1
BIC_1633_050824.d	3:3FTCA	13C5-PFPeA - ISTD	Sample	2.566	0	495705	0.0000	ND		

5-1134

13C5-PFPeA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	13C5-PFPeA	13C2-PFHxA	Calibration	2.961	397400	212568	1.8695	5.0622	5.0000	101.2
CAL2_1633_050824.d	13C5-PFPeA	13C2-PFHxA	Calibration	2.961	396909	214157	1.8534	5.0185	5.0000	100.4
CAL3_1633_050824.d	13C5-PFPeA	13C2-PFHxA	Calibration	2.970	334310	220138	1.5186	4.1121	5.0000	82.2
CAL4_1633_050824.d	13C5-PFPeA	13C2-PFHxA	Calibration	2.961	408200	217106	1.8802	5.0911	5.0000	101.8
CAL5_1633_050824.d	13C5-PFPeA	13C2-PFHxA	Calibration	2.961	442868	225690	1.9623	5.3134	5.0000	106.3
CAL6_1633_050824.d	13C5-PFPeA	13C2-PFHxA	Calibration	2.961	425445	227572	1.8695	5.0622	5.0000	101.2
CAL7_1633_050824.d	13C5-PFPeA	13C2-PFHxA	Calibration	2.970	428808	214285	2.0011	5.4185	5.0000	108.4
CAL8_1633_050824.d	13C5-PFPeA	13C2-PFHxA	Calibration	2.961	401656	211292	1.9009	5.1473	5.0000	102.9
CAL9_1633_050824.d	13C5-PFPeA	13C2-PFHxA	Calibration	2.970	368242	204035	1.8048	4.8870	5.0000	97.7
CALA_1633_050824.d	13C5-PFPeA	13C2-PFHxA	Calibration	2.961	355859	197148	1.8050	4.8876	5.0000	97.8
IBL1_1633_050824.d	13C5-PFPeA	13C2-PFHxA	Sample	2.970	409092	213886	1.9127	5.1790		
ICV_1633_050824.d	13C5-PFPeA	13C2-PFHxA	QC	2.961	404755	214635	1.8858	5.1063	5.0000	102.1
BIC_1633_050824.d	13C5-PFPeA	13C2-PFHxA	Sample	2.953	495705	222855	2.2243	6.0230		

PFPeA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	PFPeA	13C5-PFPeA - ISTD	Calibration	2.962	14987	397400	0.0377	0.1867	0.2000	93.4
CAL2_1633_050824.d	PFPeA	13C5-PFPeA - ISTD	Calibration	2.962	31221	396909	0.0787	0.3895	0.4000	97.4
CAL3_1633_050824.d	PFPeA	13C5-PFPeA - ISTD	Calibration	2.971	75866	334310	0.2269	1.1236	1.0000	112.4
CAL4_1633_050824.d	PFPeA	13C5-PFPeA - ISTD	Calibration	2.971	196385	408200	0.4811	2.3821	2.5000	95.3
CAL5_1633_050824.d	PFPeA	13C5-PFPeA - ISTD	Calibration	2.962	427865	442868	0.9661	4.7836	5.0000	95.7
CAL6_1633_050824.d	PFPeA	13C5-PFPeA - ISTD	Calibration	2.962	842529	425445	1.9803	9.8054	10.0000	98.1
CAL7_1633_050824.d	PFPeA	13C5-PFPeA - ISTD	Calibration	2.971	2120026	428808	4.9440	24.4795	25.0000	97.9
CAL8_1633_050824.d	PFPeA	13C5-PFPeA - ISTD	Calibration	2.971	4073756	401656	10.1424	50.2186	50.0000	100.4
CAL9_1633_050824.d	PFPeA	13C5-PFPeA - ISTD	Calibration	2.971	7756395	368242	21.0633	104.2918	100.0000	104.3
CALA_1633_050824.d	PFPeA	13C5-PFPeA - ISTD	Calibration	2.962	9455214	355859	26.5701	131.5581	125.0000	105.2
IBL1_1633_050824.d	PFPeA	13C5-PFPeA - ISTD	Sample	2.995	0	409092	0.0000	ND		
ICV_1633_050824.d	PFPeA	13C5-PFPeA - ISTD	QC	2.962	801104	404755	1.9792	9.7999	10.0000	98.0
BIC_1633_050824.d	PFPeA	13C5-PFPeA - ISTD	Sample	2.954	0	495705	0.0000	ND		

PFMBA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	PFMBA	13C5-PFPeA - ISTD	Calibration	3.280	10563	397400	0.0266	0.1931	0.2000	96.5
CAL2_1633_050824.d	PFMBA	13C5-PFPeA - ISTD	Calibration	3.280	20725	396909	0.0522	0.3793	0.4000	94.8
CAL3_1633_050824.d	PFMBA	13C5-PFPeA - ISTD	Calibration	3.280	54950	334310	0.1644	1.1938	1.0000	119.4
CAL4_1633_050824.d	PFMBA	13C5-PFPeA - ISTD	Calibration	3.280	140382	408200	0.3439	2.4978	2.5000	99.9
CAL5_1633_050824.d	PFMBA	13C5-PFPeA - ISTD	Calibration	3.280	289535	442868	0.6538	4.7484	5.0000	95.0
CAL6_1633_050824.d	PFMBA	13C5-PFPeA - ISTD	Calibration	3.280	560993	425445	1.3186	9.5772	10.0000	95.8
CAL7_1633_050824.d	PFMBA	13C5-PFPeA - ISTD	Calibration	3.280	1418031	428808	3.3069	24.0185	25.0000	96.1
CAL8_1633_050824.d	PFMBA	13C5-PFPeA - ISTD	Calibration	3.280	2741002	401656	6.8243	49.5654	50.0000	99.1
CAL9_1633_050824.d	PFMBA	13C5-PFPeA - ISTD	Calibration	3.280	5169473	368242	14.0382	101.9614	100.0000	102.0

PFMBA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CALA_1633_050824.d	PFMBA	13C5-PFPeA - ISTD	Calibration	3.280	6213364	355859	17.4602	126.8156	125.0000	101.5
IBL1_1633_050824.d	PFMBA	13C5-PFPeA - ISTD	Sample	3.271	0	409092	0.0000	ND		
ICV_1633_050824.d	PFMBA	13C5-PFPeA - ISTD	QC	3.280	508054	404755	1.2552	9.1168	10.0000	91.2
BIC_1633_050824.d	PFMBA	13C5-PFPeA - ISTD	Sample	3.271	769	495705	0.0016	0.0113		

13C2-4:2FTS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	13C2-4:2FTS	18O2-PFHxS	Calibration	3.630	35800	52208	0.6857	5.7300	5.0000	114.6
CAL2_1633_050824.d	13C2-4:2FTS	18O2-PFHxS	Calibration	3.630	29675	52693	0.5632	4.7059	5.0000	94.1
CAL3_1633_050824.d	13C2-4:2FTS	18O2-PFHxS	Calibration	3.630	28031	53328	0.5256	4.3923	5.0000	87.8
CAL4_1633_050824.d	13C2-4:2FTS	18O2-PFHxS	Calibration	3.622	34140	52083	0.6555	5.4774	5.0000	109.5
CAL5_1633_050824.d	13C2-4:2FTS	18O2-PFHxS	Calibration	3.630	37123	55609	0.6676	5.5783	5.0000	111.6
CAL6_1633_050824.d	13C2-4:2FTS	18O2-PFHxS	Calibration	3.630	34775	54143	0.6423	5.3670	5.0000	107.3
CAL7_1633_050824.d	13C2-4:2FTS	18O2-PFHxS	Calibration	3.630	31795	53230	0.5973	4.9913	5.0000	99.8
CAL8_1633_050824.d	13C2-4:2FTS	18O2-PFHxS	Calibration	3.630	29436	52071	0.5653	4.7238	5.0000	94.5
CAL9_1633_050824.d	13C2-4:2FTS	18O2-PFHxS	Calibration	3.630	25633	47270	0.5423	4.5313	5.0000	90.6
CALA_1633_050824.d	13C2-4:2FTS	18O2-PFHxS	Calibration	3.630	25806	47893	0.5388	4.5026	5.0000	90.1
IBL1_1633_050824.d	13C2-4:2FTS	18O2-PFHxS	Sample	3.630	39379	53211	0.7401	6.1841		
ICV_1633_050824.d	13C2-4:2FTS	18O2-PFHxS	QC	3.630	36597	53749	0.6809	5.6897	5.0000	113.8
BIC_1633_050824.d	13C2-4:2FTS	18O2-PFHxS	Sample	3.614	47640	55846	0.8531	7.1284		

4:2FTS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	4:2FTS	13C2-4:2FTS - ISTD	Calibration	3.631	7219	35800	0.2016	0.3454	0.3750	92.1
CAL2_1633_050824.d	4:2FTS	13C2-4:2FTS - ISTD	Calibration	3.631	13031	29675	0.4391	0.7523	0.7500	100.3
CAL3_1633_050824.d	4:2FTS	13C2-4:2FTS - ISTD	Calibration	3.631	36261	28031	1.2936	2.2161	1.8750	118.2
CAL4_1633_050824.d	4:2FTS	13C2-4:2FTS - ISTD	Calibration	3.631	91267	34140	2.6733	4.5797	4.6880	97.7
CAL5_1633_050824.d	4:2FTS	13C2-4:2FTS - ISTD	Calibration	3.631	200783	37123	5.4087	9.2656	9.3750	98.8
CAL6_1633_050824.d	4:2FTS	13C2-4:2FTS - ISTD	Calibration	3.631	380390	34775	10.9387	18.7391	18.7500	99.9
CAL7_1633_050824.d	4:2FTS	13C2-4:2FTS - ISTD	Calibration	3.631	867346	31795	27.2794	46.7325	46.8750	99.7
CAL8_1633_050824.d	4:2FTS	13C2-4:2FTS - ISTD	Calibration	3.631	1544001	29436	52.4529	89.8572	93.7500	95.8
CAL9_1633_050824.d	4:2FTS	13C2-4:2FTS - ISTD	Calibration	3.631	2732157	25633	106.5886	182.5973	187.5000	97.4
CALA_1633_050824.d	4:2FTS	13C2-4:2FTS - ISTD	Calibration	3.631	3171849	25806	122.9113	210.5597		
IBL1_1633_050824.d	4:2FTS	13C2-4:2FTS - ISTD	Sample	3.647	0	39379	0.0000	ND		
ICV_1633_050824.d	4:2FTS	13C2-4:2FTS - ISTD	QC	3.631	210510	36597	5.7521	9.8540	10.0000	98.5
BIC_1633_050824.d	4:2FTS	13C2-4:2FTS - ISTD	Sample	3.614	790	47640	0.0166	0.0284		

NFDHA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	NFDHA	13C5-PFHxA - ISTD	Calibration	3.775	1588	219769	0.0072	0.2137	0.2000	106.9
CAL2_1633_050824.d	NFDHA	13C5-PFHxA - ISTD	Calibration	3.783	3045	218835	0.0139	0.4116	0.4000	102.9
CAL3_1633_050824.d	NFDHA	13C5-PFHxA - ISTD	Calibration	3.775	7801	185780	0.0420	1.2422	1.0000	124.2

NFDHA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL4_1633_050824.d	NFDHA	13C5-PFHxA - ISTD	Calibration	3.775	18982	225198	0.0843	2.4934	2.5000	99.7
CAL5_1633_050824.d	NFDHA	13C5-PFHxA - ISTD	Calibration	3.775	40011	242691	0.1649	4.8768	5.0000	97.5
CAL6_1633_050824.d	NFDHA	13C5-PFHxA - ISTD	Calibration	3.775	78193	234786	0.3330	9.8516	10.0000	98.5
CAL7_1633_050824.d	NFDHA	13C5-PFHxA - ISTD	Calibration	3.775	197030	237546	0.8294	24.5356	25.0000	98.1
CAL8_1633_050824.d	NFDHA	13C5-PFHxA - ISTD	Calibration	3.775	367886	222555	1.6530	48.8975	50.0000	97.8
CAL9_1633_050824.d	NFDHA	13C5-PFHxA - ISTD	Calibration	3.775	640392	212714	3.0106	89.0555	100.0000	89.1
CALA_1633_050824.d	NFDHA	13C5-PFHxA - ISTD	Calibration	3.775	748206	207725	3.6019	106.5476	125.0000	85.2
IBL1_1633_050824.d	NFDHA	13C5-PFHxA - ISTD	Sample	3.799	0	221347	0.0000	ND		
ICV_1633_050824.d	NFDHA	13C5-PFHxA - ISTD	QC	3.775	77303	217759	0.3550	10.5011	10.0000	105.0
BIC_1633_050824.d	NFDHA	13C5-PFHxA - ISTD	Sample	3.767	0	268128	0.0000	ND		

13C3-PFBS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	13C3-PFBS	18O2-PFHxS	Calibration	3.798	73887	52208	1.4152	2.6186	2.5000	104.7
CAL2_1633_050824.d	13C3-PFBS	18O2-PFHxS	Calibration	3.798	73774	52693	1.4001	2.5905	2.5000	103.6
CAL3_1633_050824.d	13C3-PFBS	18O2-PFHxS	Calibration	3.798	61723	53328	1.1574	2.1415	2.5000	85.7
CAL4_1633_050824.d	13C3-PFBS	18O2-PFHxS	Calibration	3.790	75517	52083	1.4499	2.6828	2.5000	107.3
CAL5_1633_050824.d	13C3-PFBS	18O2-PFHxS	Calibration	3.790	81333	55609	1.4626	2.7061	2.5000	108.2
CAL6_1633_050824.d	13C3-PFBS	18O2-PFHxS	Calibration	3.790	77855	54143	1.4379	2.6605	2.5000	106.4
CAL7_1633_050824.d	13C3-PFBS	18O2-PFHxS	Calibration	3.798	77403	53230	1.4541	2.6905	2.5000	107.6
CAL8_1633_050824.d	13C3-PFBS	18O2-PFHxS	Calibration	3.798	68328	52071	1.3122	2.4279	2.5000	97.1
CAL9_1633_050824.d	13C3-PFBS	18O2-PFHxS	Calibration	3.798	59814	47270	1.2654	2.3413	2.5000	93.7
CALA_1633_050824.d	13C3-PFBS	18O2-PFHxS	Calibration	3.798	55403	47893	1.1568	2.1404	2.5000	85.6
IBL1_1633_050824.d	13C3-PFBS	18O2-PFHxS	Sample	3.798	77762	53211	1.4614	2.7039		
ICV_1633_050824.d	13C3-PFBS	18O2-PFHxS	QC	3.790	73982	53749	1.3764	2.5468	2.5000	101.9
BIC_1633_050824.d	13C3-PFBS	18O2-PFHxS	Sample	3.782	95045	55846	1.7019	3.1490		

PFBS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	PFBS	13C3-PFBS - ISTD	Calibration	3.791	3554	73887	0.0481	0.0964	0.0887	108.6
CAL2_1633_050824.d	PFBS	13C3-PFBS - ISTD	Calibration	3.799	6080	73774	0.0824	0.1651	0.1774	93.1
CAL3_1633_050824.d	PFBS	13C3-PFBS - ISTD	Calibration	3.799	15693	61723	0.2542	0.5093	0.4435	114.8
CAL4_1633_050824.d	PFBS	13C3-PFBS - ISTD	Calibration	3.791	40292	75517	0.5335	1.0689	1.1090	96.4
CAL5_1633_050824.d	PFBS	13C3-PFBS - ISTD	Calibration	3.799	84854	81333	1.0433	2.0901	2.2180	94.2
CAL6_1633_050824.d	PFBS	13C3-PFBS - ISTD	Calibration	3.791	171243	77855	2.1995	4.4065	4.4350	99.4
CAL7_1633_050824.d	PFBS	13C3-PFBS - ISTD	Calibration	3.791	414762	77403	5.3585	10.7351	11.0880	96.8
CAL8_1633_050824.d	PFBS	13C3-PFBS - ISTD	Calibration	3.799	753767	68328	11.0316	22.1005	22.1750	99.7
CAL9_1633_050824.d	PFBS	13C3-PFBS - ISTD	Calibration	3.799	1293819	59814	21.6306	43.3342	44.3500	97.7
CALA_1633_050824.d	PFBS	13C3-PFBS - ISTD	Calibration	3.799	1522354	55403	27.4780	55.0488	55.4380	99.3
IBL1_1633_050824.d	PFBS	13C3-PFBS - ISTD	Sample	3.807	0	77762	0.0000	ND		
ICV_1633_050824.d	PFBS	13C3-PFBS - ISTD	QC	3.791	368279	73982	4.9779	9.9726	10.0000	99.7

PFBS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
BIC_1633_050824.d	PFBS	13C3-PFBS - ISTD	Sample	3.783	0	95045	0.0000	ND		

13C5-PFHxA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	13C5-PFHxA	13C2-PFHxA	Calibration	3.869	219769	212568	1.0339	2.5089	2.5000	100.4
CAL2_1633_050824.d	13C5-PFHxA	13C2-PFHxA	Calibration	3.869	218835	214157	1.0218	2.4797	2.5000	99.2
CAL3_1633_050824.d	13C5-PFHxA	13C2-PFHxA	Calibration	3.861	185780	220138	0.8439	2.0480	2.5000	81.9
CAL4_1633_050824.d	13C5-PFHxA	13C2-PFHxA	Calibration	3.861	225198	217106	1.0373	2.5172	2.5000	100.7
CAL5_1633_050824.d	13C5-PFHxA	13C2-PFHxA	Calibration	3.861	242691	225690	1.0753	2.6095	2.5000	104.4
CAL6_1633_050824.d	13C5-PFHxA	13C2-PFHxA	Calibration	3.861	234786	227572	1.0317	2.5036	2.5000	100.1
CAL7_1633_050824.d	13C5-PFHxA	13C2-PFHxA	Calibration	3.861	237546	214285	1.1086	2.6901	2.5000	107.6
CAL8_1633_050824.d	13C5-PFHxA	13C2-PFHxA	Calibration	3.861	222555	211292	1.0533	2.5561	2.5000	102.2
CAL9_1633_050824.d	13C5-PFHxA	13C2-PFHxA	Calibration	3.861	212714	204035	1.0425	2.5299	2.5000	101.2
CALA_1633_050824.d	13C5-PFHxA	13C2-PFHxA	Calibration	3.861	207725	197148	1.0537	2.5569	2.5000	102.3
IBL1_1633_050824.d	13C5-PFHxA	13C2-PFHxA	Sample	3.861	221347	213886	1.0349	2.5114		
ICV_1633_050824.d	13C5-PFHxA	13C2-PFHxA	QC	3.861	217759	214635	1.0146	2.4620	2.5000	98.5
BIC_1633_050824.d	13C5-PFHxA	13C2-PFHxA	Sample	3.853	268128	222855	1.2032	2.9197		

PFHxA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	PFHxA	13C5-PFHxA - ISTD	Calibration	3.871	8669	219769	0.0394	0.0970	0.1000	97.0
CAL2_1633_050824.d	PFHxA	13C5-PFHxA - ISTD	Calibration	3.871	17676	218835	0.0808	0.1987	0.2000	99.3
CAL3_1633_050824.d	PFHxA	13C5-PFHxA - ISTD	Calibration	3.863	41933	185780	0.2257	0.5552	0.5000	111.0
CAL4_1633_050824.d	PFHxA	13C5-PFHxA - ISTD	Calibration	3.863	108457	225198	0.4816	1.1846	1.2500	94.8
CAL5_1633_050824.d	PFHxA	13C5-PFHxA - ISTD	Calibration	3.863	237902	242691	0.9803	2.4111	2.5000	96.4
CAL6_1633_050824.d	PFHxA	13C5-PFHxA - ISTD	Calibration	3.863	472633	234786	2.0130	4.9513	5.0000	99.0
CAL7_1633_050824.d	PFHxA	13C5-PFHxA - ISTD	Calibration	3.863	1183847	237546	4.9837	12.2579	12.5000	98.1
CAL8_1633_050824.d	PFHxA	13C5-PFHxA - ISTD	Calibration	3.863	2266749	222555	10.1851	25.0515	25.0000	100.2
CAL9_1633_050824.d	PFHxA	13C5-PFHxA - ISTD	Calibration	3.863	4379423	212714	20.5883	50.6392	50.0000	101.3
CALA_1633_050824.d	PFHxA	13C5-PFHxA - ISTD	Calibration	3.863	5427767	207725	26.1296	64.2687	62.5000	102.8
IBL1_1633_050824.d	PFHxA	13C5-PFHxA - ISTD	Sample	3.863	0	221347	0.0000	ND		
ICV_1633_050824.d	PFHxA	13C5-PFHxA - ISTD	QC	3.863	870561	217759	3.9978	9.8331	10.0000	98.3
BIC_1633_050824.d	PFHxA	13C5-PFHxA - ISTD	Sample	3.855	2342	268128	0.0087	0.0215		

13C3-HFPODA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	13C3-HFPODA	13C2-PFHxA	Calibration	4.152	266562	212568	1.2540	10.8794	10.0000	108.8
CAL2_1633_050824.d	13C3-HFPODA	13C2-PFHxA	Calibration	4.152	252154	214157	1.1774	10.2150	10.0000	102.2
CAL3_1633_050824.d	13C3-HFPODA	13C2-PFHxA	Calibration	4.136	217006	220138	0.9858	8.5523	10.0000	85.5
CAL4_1633_050824.d	13C3-HFPODA	13C2-PFHxA	Calibration	4.128	262532	217106	1.2092	10.4910	10.0000	104.9
CAL5_1633_050824.d	13C3-HFPODA	13C2-PFHxA	Calibration	4.136	287101	225690	1.2721	11.0364	10.0000	110.4
CAL6_1633_050824.d	13C3-HFPODA	13C2-PFHxA	Calibration	4.136	273257	227572	1.2007	10.4173	10.0000	104.2

51-20

13C3-HFPODA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL7_1633_050824.d	13C3-HFPODA	13C2-PFHxA	Calibration	4.136	268431	214285	1.2527	10.8679	10.0000	108.7
CAL8_1633_050824.d	13C3-HFPODA	13C2-PFHxA	Calibration	4.136	244487	211292	1.1571	10.0387	10.0000	100.4
CAL9_1633_050824.d	13C3-HFPODA	13C2-PFHxA	Calibration	4.136	206136	204035	1.0103	8.7650	10.0000	87.7
CALA_1633_050824.d	13C3-HFPODA	13C2-PFHxA	Calibration	4.136	198537	197148	1.0070	8.7369	10.0000	87.4
IBL1_1633_050824.d	13C3-HFPODA	13C2-PFHxA	Sample	4.136	263332	213886	1.2312	10.6814		
ICV_1633_050824.d	13C3-HFPODA	13C2-PFHxA	QC	4.128	267288	214635	1.2453	10.8040	10.0000	108.0
BIC_1633_050824.d	13C3-HFPODA	13C2-PFHxA	Sample	4.120	325025	222855	1.4585	12.6532		

HFPO-DA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	HFPO-DA	13C3-HFPODA - ISTD	Calibration	4.153	8883	266562	0.0333	0.3621	0.4000	90.5
CAL2_1633_050824.d	HFPO-DA	13C3-HFPODA - ISTD	Calibration	4.153	19517	252154	0.0774	0.8411	0.8000	105.1
CAL3_1633_050824.d	HFPO-DA	13C3-HFPODA - ISTD	Calibration	4.137	47108	217006	0.2171	2.3589	2.0000	117.9
CAL4_1633_050824.d	HFPO-DA	13C3-HFPODA - ISTD	Calibration	4.129	120147	262532	0.4576	4.9731	5.0000	99.5
CAL5_1633_050824.d	HFPO-DA	13C3-HFPODA - ISTD	Calibration	4.137	240047	287101	0.8361	9.0857	10.0000	90.9
CAL6_1633_050824.d	HFPO-DA	13C3-HFPODA - ISTD	Calibration	4.137	510529	273257	1.8683	20.3023	20.0000	101.5
CAL7_1633_050824.d	HFPO-DA	13C3-HFPODA - ISTD	Calibration	4.137	1211682	268431	4.5139	49.0515	50.0000	98.1
CAL8_1633_050824.d	HFPO-DA	13C3-HFPODA - ISTD	Calibration	4.137	2191174	244487	8.9623	97.3908	100.0000	97.4
CAL9_1633_050824.d	HFPO-DA	13C3-HFPODA - ISTD	Calibration	4.145	3860580	206136	18.7283	203.5143	200.0000	101.8
CALA_1633_050824.d	HFPO-DA	13C3-HFPODA - ISTD	Calibration	4.144	4444231	198537	22.3849	243.2491	250.0000	97.3
IBL1_1633_050824.d	HFPO-DA	13C3-HFPODA - ISTD	Sample	4.137	0	263332	0.0000	ND		
ICV_1633_050824.d	HFPO-DA	13C3-HFPODA - ISTD	QC	4.128	233430	267288	0.8733	9.4902	10.0000	94.9
BIC_1633_050824.d	HFPO-DA	13C3-HFPODA - ISTD	Sample	4.137	0	325025	0.0000	ND		

PFEESA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	PFEESA	13C5-PFHxA - ISTD	Calibration	4.206	21691	219769	0.0987	0.1961	0.1780	110.2
CAL2_1633_050824.d	PFEESA	13C5-PFHxA - ISTD	Calibration	4.206	37639	218835	0.1720	0.3417	0.3560	96.0
CAL3_1633_050824.d	PFEESA	13C5-PFHxA - ISTD	Calibration	4.197	103130	185780	0.5551	1.1030	0.8900	123.9
CAL4_1633_050824.d	PFEESA	13C5-PFHxA - ISTD	Calibration	4.189	252280	225198	1.1203	2.2259	2.2250	100.0
CAL5_1633_050824.d	PFEESA	13C5-PFHxA - ISTD	Calibration	4.189	537543	242691	2.2149	4.4009	4.4500	98.9
CAL6_1633_050824.d	PFEESA	13C5-PFHxA - ISTD	Calibration	4.189	1019782	234786	4.3435	8.6302	8.9000	97.0
CAL7_1633_050824.d	PFEESA	13C5-PFHxA - ISTD	Calibration	4.189	2572872	237546	10.8311	21.5206	22.2500	96.7
CAL8_1633_050824.d	PFEESA	13C5-PFHxA - ISTD	Calibration	4.189	4859958	222555	21.8371	43.3890	44.5000	97.5
CAL9_1633_050824.d	PFEESA	13C5-PFHxA - ISTD	Calibration	4.197	8643965	212714	40.6365	80.7422	89.0000	90.7
CALA_1633_050824.d	PFEESA	13C5-PFHxA - ISTD	Calibration	4.197	10356665	207725	49.8576	99.0639	111.2500	89.0
IBL1_1633_050824.d	PFEESA	13C5-PFHxA - ISTD	Sample	4.149	0	221347	0.0000	ND		
ICV_1633_050824.d	PFEESA	13C5-PFHxA - ISTD	QC	4.189	991007	217759	4.5509	9.0424	10.0000	90.4
BIC_1633_050824.d	PFEESA	13C5-PFHxA - ISTD	Sample	4.181	1557	268128	0.0058	0.0115		

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5:3FTCA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	5:3FTCA	13C5-PFHxA - ISTD	Calibration	4.368	39462	219769	0.1796	4.5063	5.0000	90.1
CAL2_1633_050824.d	5:3FTCA	13C5-PFHxA - ISTD	Calibration	4.368	83990	218835	0.3838	9.6320	10.0000	96.3
CAL3_1633_050824.d	5:3FTCA	13C5-PFHxA - ISTD	Calibration	4.359	214495	185780	1.1546	28.9752	25.0000	115.9
CAL4_1633_050824.d	5:3FTCA	13C5-PFHxA - ISTD	Calibration	4.351	540071	225198	2.3982	60.1858	62.5000	96.3
CAL5_1633_050824.d	5:3FTCA	13C5-PFHxA - ISTD	Calibration	4.359	1169980	242691	4.8209	120.9853	125.0000	96.8
CAL6_1633_050824.d	5:3FTCA	13C5-PFHxA - ISTD	Calibration	4.359	2356989	234786	10.0389	251.9377	250.0000	100.8
CAL7_1633_050824.d	5:3FTCA	13C5-PFHxA - ISTD	Calibration	4.359	5946751	237546	25.0341	628.2599	625.0000	100.5
CAL8_1633_050824.d	5:3FTCA	13C5-PFHxA - ISTD	Calibration	4.351	11267695	222555	50.6288	1270.5886	1250.0000	101.6
CAL9_1633_050824.d	5:3FTCA	13C5-PFHxA - ISTD	Calibration	4.351	21362776	212714	100.4295	2520.3919	2500.0000	100.8
CALA_1633_050824.d	5:3FTCA	13C5-PFHxA - ISTD	Calibration	4.351	26033618	207725	125.3274	3145.2336	3120.0000	100.8
IBL1_1633_050824.d	5:3FTCA	13C5-PFHxA - ISTD	Sample	4.351	1927	221347	0.0087	0.2185		
ICV_1633_050824.d	5:3FTCA	13C5-PFHxA - ISTD	QC	4.351	81346	217759	0.3736	9.3749	10.0000	93.7
BIC_1633_050824.d	5:3FTCA	13C5-PFHxA - ISTD	Sample	4.351	757	268128	0.0028	0.0709		

13C4-PFHpA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	13C4-PFHpA	13C2-PFHxA	Calibration	4.599	249788	212568	1.1751	2.5493	2.5000	102.0
CAL2_1633_050824.d	13C4-PFHpA	13C2-PFHxA	Calibration	4.607	243826	214157	1.1385	2.4700	2.5000	98.8
CAL3_1633_050824.d	13C4-PFHpA	13C2-PFHxA	Calibration	4.599	207767	220138	0.9438	2.0476	2.5000	81.9
CAL4_1633_050824.d	13C4-PFHpA	13C2-PFHxA	Calibration	4.582	253399	217106	1.1672	2.5321	2.5000	101.3
CAL5_1633_050824.d	13C4-PFHpA	13C2-PFHxA	Calibration	4.599	274507	225690	1.2163	2.6387	2.5000	105.5
CAL6_1633_050824.d	13C4-PFHpA	13C2-PFHxA	Calibration	4.599	265603	227572	1.1671	2.5320	2.5000	101.3
CAL7_1633_050824.d	13C4-PFHpA	13C2-PFHxA	Calibration	4.599	271135	214285	1.2653	2.7450	2.5000	109.8
CAL8_1633_050824.d	13C4-PFHpA	13C2-PFHxA	Calibration	4.590	254675	211292	1.2053	2.6149	2.5000	104.6
CAL9_1633_050824.d	13C4-PFHpA	13C2-PFHxA	Calibration	4.590	226702	204035	1.1111	2.4105	2.5000	96.4
CALA_1633_050824.d	13C4-PFHpA	13C2-PFHxA	Calibration	4.590	223532	197148	1.1338	2.4598	2.5000	98.4
IBL1_1633_050824.d	13C4-PFHpA	13C2-PFHxA	Sample	4.590	258946	213886	1.2107	2.6265		
ICV_1633_050824.d	13C4-PFHpA	13C2-PFHxA	QC	4.582	256775	214635	1.1963	2.5954	2.5000	103.8
BIC_1633_050824.d	13C4-PFHpA	13C2-PFHxA	Sample	4.574	311622	222855	1.3983	3.0336		

PFHpA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	PFHpA	13C4-PFHpA - ISTD	Calibration	4.599	10216	249788	0.0409	0.0981	0.1000	98.1
CAL2_1633_050824.d	PFHpA	13C4-PFHpA - ISTD	Calibration	4.607	19279	243826	0.0791	0.1897	0.2000	94.9
CAL3_1633_050824.d	PFHpA	13C4-PFHpA - ISTD	Calibration	4.599	48976	207767	0.2357	0.5655	0.5000	113.1
CAL4_1633_050824.d	PFHpA	13C4-PFHpA - ISTD	Calibration	4.591	124759	253399	0.4923	1.1812	1.2500	94.5
CAL5_1633_050824.d	PFHpA	13C4-PFHpA - ISTD	Calibration	4.599	277508	274507	1.0109	2.4254	2.5000	97.0
CAL6_1633_050824.d	PFHpA	13C4-PFHpA - ISTD	Calibration	4.599	538614	265603	2.0279	4.8653	5.0000	97.3
CAL7_1633_050824.d	PFHpA	13C4-PFHpA - ISTD	Calibration	4.599	1372342	271135	5.0615	12.1434	12.5000	97.1
CAL8_1633_050824.d	PFHpA	13C4-PFHpA - ISTD	Calibration	4.591	2623043	254675	10.2996	24.7105	25.0000	98.8
CAL9_1633_050824.d	PFHpA	13C4-PFHpA - ISTD	Calibration	4.591	4907818	226702	21.6488	51.9394	50.0000	103.9

PFHpA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CALA_1633_050824.d	PFHpA	13C4-PFHpA - ISTD	Calibration	4.591	6127520	223532	27.4123	65.7669	62.5000	105.2
IBL1_1633_050824.d	PFHpA	13C4-PFHpA - ISTD	Sample	4.591	0	258946	0.0000	ND		
ICV_1633_050824.d	PFHpA	13C4-PFHpA - ISTD	QC	4.583	967588	256775	3.7682	9.0407	10.0000	90.4
BIC_1633_050824.d	PFHpA	13C4-PFHpA - ISTD	Sample	4.574	7825	311622	0.0251	0.0602		

PFPeS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	PFPeS	13C3-PFHxS - ISTD	Calibration	4.633	2969	54694	0.0543	0.1047	0.0941	111.3
CAL2_1633_050824.d	PFPeS	13C3-PFHxS - ISTD	Calibration	4.641	4789	51742	0.0926	0.1786	0.1882	94.9
CAL3_1633_050824.d	PFPeS	13C3-PFHxS - ISTD	Calibration	4.633	12858	43890	0.2930	0.5654	0.4705	120.2
CAL4_1633_050824.d	PFPeS	13C3-PFHxS - ISTD	Calibration	4.625	31468	54589	0.5765	1.1124	1.1760	94.6
CAL5_1633_050824.d	PFPeS	13C3-PFHxS - ISTD	Calibration	4.633	70939	58673	1.2091	2.3332	2.3530	99.2
CAL6_1633_050824.d	PFPeS	13C3-PFHxS - ISTD	Calibration	4.633	139580	56563	2.4677	4.7620	4.7050	101.2
CAL7_1633_050824.d	PFPeS	13C3-PFHxS - ISTD	Calibration	4.633	339267	57441	5.9064	11.3979	11.7630	96.9
CAL8_1633_050824.d	PFPeS	13C3-PFHxS - ISTD	Calibration	4.625	638384	54054	11.8101	22.7907	23.5250	96.9
CAL9_1633_050824.d	PFPeS	13C3-PFHxS - ISTD	Calibration	4.625	1148033	50318	22.8157	44.0288	47.0500	93.6
CALA_1633_050824.d	PFPeS	13C3-PFHxS - ISTD	Calibration	4.625	1369106	49203	27.8259	53.6973	58.8130	91.3
IBL1_1633_050824.d	PFPeS	13C3-PFHxS - ISTD	Sample	4.641	0	54136	0.0000	ND		
ICV_1633_050824.d	PFPeS	13C3-PFHxS - ISTD	QC	4.617	278601	53813	5.1772	9.9907	10.0000	99.9
BIC_1633_050824.d	PFPeS	13C3-PFHxS - ISTD	Sample	4.608	0	66823	0.0000	ND		

ADONA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	ADONA	13C3-HFPODA - ISTD	Calibration	4.838	63482	266562	0.2382	0.3205	0.3780	84.8
CAL2_1633_050824.d	ADONA	13C3-HFPODA - ISTD	Calibration	4.838	138920	252154	0.5509	0.7415	0.7560	98.1
CAL3_1633_050824.d	ADONA	13C3-HFPODA - ISTD	Calibration	4.838	333653	217006	1.5375	2.0693	1.8900	109.5
CAL4_1633_050824.d	ADONA	13C3-HFPODA - ISTD	Calibration	4.830	859076	262532	3.2723	4.4041	4.7250	93.2
CAL5_1633_050824.d	ADONA	13C3-HFPODA - ISTD	Calibration	4.838	1694172	287101	5.9010	7.9420	9.4500	84.0
CAL6_1633_050824.d	ADONA	13C3-HFPODA - ISTD	Calibration	4.838	3654380	273257	13.3734	17.9991	18.9000	95.2
CAL7_1633_050824.d	ADONA	13C3-HFPODA - ISTD	Calibration	4.830	9360372	268431	34.8707	46.9319	47.2500	99.3
CAL8_1633_050824.d	ADONA	13C3-HFPODA - ISTD	Calibration	4.830	18440993	244487	75.4274	101.5165	94.5000	107.4
CAL9_1633_050824.d	ADONA	13C3-HFPODA - ISTD	Calibration	4.822	33844303	206136	164.1843	220.9730	189.0000	116.9
CALA_1633_050824.d	ADONA	13C3-HFPODA - ISTD	Calibration	4.830	38852008	198537	195.6915	263.3781	236.2500	111.5
IBL1_1633_050824.d	ADONA	13C3-HFPODA - ISTD	Sample	4.822	0	263332	0.0000	ND		
ICV_1633_050824.d	ADONA	13C3-HFPODA - ISTD	QC	4.822	1678782	267288	6.2808	8.4532	10.0000	84.5
BIC_1633_050824.d	ADONA	13C3-HFPODA - ISTD	Sample	4.814	910	325025	0.0028	0.0038		

13C2-6:2FTS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	13C2-6:2FTS	18O2-PFHxS	Calibration	4.982	21798	52208	0.4175	5.1632	5.0000	103.3
CAL2_1633_050824.d	13C2-6:2FTS	18O2-PFHxS	Calibration	4.982	20158	52693	0.3826	4.7309	5.0000	94.6
CAL3_1633_050824.d	13C2-6:2FTS	18O2-PFHxS	Calibration	4.991	17703	53328	0.3320	4.1050	5.0000	82.1

13C2-6:2FTS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL4_1633_050824.d	13C2-6:2FTS	18O2-PFHxS	Calibration	4.982	22315	52083	0.4285	5.2985	5.0000	106.0
CAL5_1633_050824.d	13C2-6:2FTS	18O2-PFHxS	Calibration	4.991	24988	55609	0.4494	5.5568	5.0000	111.1
CAL6_1633_050824.d	13C2-6:2FTS	18O2-PFHxS	Calibration	4.990	22452	54143	0.4147	5.1279	5.0000	102.6
CAL7_1633_050824.d	13C2-6:2FTS	18O2-PFHxS	Calibration	4.982	22455	53230	0.4219	5.2168	5.0000	104.3
CAL8_1633_050824.d	13C2-6:2FTS	18O2-PFHxS	Calibration	4.982	20189	52071	0.3877	4.7947	5.0000	95.9
CAL9_1633_050824.d	13C2-6:2FTS	18O2-PFHxS	Calibration	4.974	19120	47270	0.4045	5.0019	5.0000	100.0
CALA_1633_050824.d	13C2-6:2FTS	18O2-PFHxS	Calibration	4.974	19381	47893	0.4047	5.0043	5.0000	100.1
IBL1_1633_050824.d	13C2-6:2FTS	18O2-PFHxS	Sample	4.974	26289	53211	0.4940	6.1095		
ICV_1633_050824.d	13C2-6:2FTS	18O2-PFHxS	QC	4.966	25050	53749	0.4661	5.7634	5.0000	115.3
BIC_1633_050824.d	13C2-6:2FTS	18O2-PFHxS	Sample	4.966	31633	55846	0.5664	7.0048		

6:2FTS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	6:2FTS	13C2-6:2FTS - ISTD	Calibration	4.983	7618	21798	0.3495	0.5159	0.3800	135.8
CAL2_1633_050824.d	6:2FTS	13C2-6:2FTS - ISTD	Calibration	4.991	9547	20158	0.4736	0.6991	0.7600	92.0
CAL3_1633_050824.d	6:2FTS	13C2-6:2FTS - ISTD	Calibration	4.991	26363	17703	1.4892	2.1984	1.9000	115.7
CAL4_1633_050824.d	6:2FTS	13C2-6:2FTS - ISTD	Calibration	4.983	64866	22315	2.9068	4.2910	4.7500	90.3
CAL5_1633_050824.d	6:2FTS	13C2-6:2FTS - ISTD	Calibration	4.991	147028	24988	5.8839	8.6859	9.5000	91.4
CAL6_1633_050824.d	6:2FTS	13C2-6:2FTS - ISTD	Calibration	4.991	287356	22452	12.7990	18.8939	19.0000	99.4
CAL7_1633_050824.d	6:2FTS	13C2-6:2FTS - ISTD	Calibration	4.983	671709	22455	29.9131	44.1580	47.5000	93.0
CAL8_1633_050824.d	6:2FTS	13C2-6:2FTS - ISTD	Calibration	4.983	1210372	20189	59.9508	88.4999	95.0000	93.2
CAL9_1633_050824.d	6:2FTS	13C2-6:2FTS - ISTD	Calibration	4.975	2195465	19120	114.8263	169.5075	190.0000	89.2
CALA_1633_050824.d	6:2FTS	13C2-6:2FTS - ISTD	Calibration	4.975	2620605	19381	135.2152	199.6058		
IBL1_1633_050824.d	6:2FTS	13C2-6:2FTS - ISTD	Sample	4.991	0	26289	0.0000	ND		
ICV_1633_050824.d	6:2FTS	13C2-6:2FTS - ISTD	QC	4.975	156219	25050	6.2363	9.2061	10.0000	92.1
BIC_1633_050824.d	6:2FTS	13C2-6:2FTS - ISTD	Sample	4.966	0	31633	0.0000	ND		

13C8-PFOA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	13C8-PFOA	13C4-PFOA	Calibration	5.197	230714	34420	6.7028	2.4449	2.5000	97.8
CAL2_1633_050824.d	13C8-PFOA	13C4-PFOA	Calibration	5.206	228324	33025	6.9136	2.5218	2.5000	100.9
CAL3_1633_050824.d	13C8-PFOA	13C4-PFOA	Calibration	5.215	193164	33880	5.7014	2.0796	2.5000	83.2
CAL4_1633_050824.d	13C8-PFOA	13C4-PFOA	Calibration	5.206	235365	34355	6.8511	2.4990	2.5000	100.0
CAL5_1633_050824.d	13C8-PFOA	13C4-PFOA	Calibration	5.215	259437	36036	7.1994	2.6260	2.5000	105.0
CAL6_1633_050824.d	13C8-PFOA	13C4-PFOA	Calibration	5.206	251311	35928	6.9949	2.5515	2.5000	102.1
CAL7_1633_050824.d	13C8-PFOA	13C4-PFOA	Calibration	5.197	248066	35007	7.0861	2.5847	2.5000	103.4
CAL8_1633_050824.d	13C8-PFOA	13C4-PFOA	Calibration	5.197	236116	33594	7.0284	2.5637	2.5000	102.5
CAL9_1633_050824.d	13C8-PFOA	13C4-PFOA	Calibration	5.197	216951	30845	7.0337	2.5656	2.5000	102.6
CALA_1633_050824.d	13C8-PFOA	13C4-PFOA	Calibration	5.197	215291	30637	7.0271	2.5632	2.5000	102.5
IBL1_1633_050824.d	13C8-PFOA	13C4-PFOA	Sample	5.189	242206	34466	7.0274	2.5633		
ICV_1633_050824.d	13C8-PFOA	13C4-PFOA	QC	5.189	238314	34594	6.8889	2.5128	2.5000	100.5

13C8-PFOA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
BIC_1633_050824.d	13C8-PFOA	13C4-PFOA	Sample	5.181	282734	35125	8.0494	2.9361		

PFOA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	PFOA	13C8-PFOA - ISTD	Calibration	5.207	11416	230714	0.0495	0.0986	0.1000	98.6
CAL2_1633_050824.d	PFOA	13C8-PFOA - ISTD	Calibration	5.207	22547	228324	0.0988	0.1967	0.2000	98.3
CAL3_1633_050824.d	PFOA	13C8-PFOA - ISTD	Calibration	5.207	55359	193164	0.2866	0.5708	0.5000	114.2
CAL4_1633_050824.d	PFOA	13C8-PFOA - ISTD	Calibration	5.207	139517	235365	0.5928	1.1807	1.2500	94.5
CAL5_1633_050824.d	PFOA	13C8-PFOA - ISTD	Calibration	5.216	309372	259437	1.1925	2.3752	2.5000	95.0
CAL6_1633_050824.d	PFOA	13C8-PFOA - ISTD	Calibration	5.207	601886	251311	2.3950	4.7704	5.0000	95.4
CAL7_1633_050824.d	PFOA	13C8-PFOA - ISTD	Calibration	5.198	1525137	248066	6.1481	12.2458	12.5000	98.0
CAL8_1633_050824.d	PFOA	13C8-PFOA - ISTD	Calibration	5.198	2922016	236116	12.3753	24.6493	25.0000	98.6
CAL9_1633_050824.d	PFOA	13C8-PFOA - ISTD	Calibration	5.198	5657801	216951	26.0787	51.9438	50.0000	103.9
CALA_1633_050824.d	PFOA	13C8-PFOA - ISTD	Calibration	5.198	6998938	215291	32.5092	64.7520	62.5000	103.6
IBL1_1633_050824.d	PFOA	13C8-PFOA - ISTD	Sample	5.190	0	242206	0.0000	ND		
ICV_1633_050824.d	PFOA	13C8-PFOA - ISTD	QC	5.190	1024177	238314	4.2976	8.5600	10.0000	85.6
BIC_1633_050824.d	PFOA	13C8-PFOA - ISTD	Sample	5.190	835441	282734	2.9549	5.8855		

13C3-PFHxS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	13C3-PFHxS	18O2-PFHxS	Calibration	5.292	54694	52208	1.0476	2.5653	2.5000	102.6
CAL2_1633_050824.d	13C3-PFHxS	18O2-PFHxS	Calibration	5.300	51742	52693	0.9820	2.4045	2.5000	96.2
CAL3_1633_050824.d	13C3-PFHxS	18O2-PFHxS	Calibration	5.308	43890	53328	0.8230	2.0153	2.5000	80.6
CAL4_1633_050824.d	13C3-PFHxS	18O2-PFHxS	Calibration	5.300	54589	52083	1.0481	2.5665	2.5000	102.7
CAL5_1633_050824.d	13C3-PFHxS	18O2-PFHxS	Calibration	5.308	58673	55609	1.0551	2.5836	2.5000	103.3
CAL6_1633_050824.d	13C3-PFHxS	18O2-PFHxS	Calibration	5.300	56563	54143	1.0447	2.5581	2.5000	102.3
CAL7_1633_050824.d	13C3-PFHxS	18O2-PFHxS	Calibration	5.292	57441	53230	1.0791	2.6424	2.5000	105.7
CAL8_1633_050824.d	13C3-PFHxS	18O2-PFHxS	Calibration	5.300	54054	52071	1.0381	2.5419	2.5000	101.7
CAL9_1633_050824.d	13C3-PFHxS	18O2-PFHxS	Calibration	5.292	50318	47270	1.0645	2.6066	2.5000	104.3
CALA_1633_050824.d	13C3-PFHxS	18O2-PFHxS	Calibration	5.292	49203	47893	1.0273	2.5157	2.5000	100.6
IBL1_1633_050824.d	13C3-PFHxS	18O2-PFHxS	Sample	5.292	54136	53211	1.0174	2.4912		
ICV_1633_050824.d	13C3-PFHxS	18O2-PFHxS	QC	5.284	53813	53749	1.0012	2.4516	2.5000	98.1
BIC_1633_050824.d	13C3-PFHxS	18O2-PFHxS	Sample	5.284	66823	55846	1.1966	2.9300		

PFHxS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	PFHxS	13C3-PFHxS - ISTD	Calibration	5.293	2529	54694	0.0462	0.1024	0.0914	112.1
CAL2_1633_050824.d	PFHxS	13C3-PFHxS - ISTD	Calibration	5.309	4455	51742	0.0861	0.1907	0.1828	104.3
CAL3_1633_050824.d	PFHxS	13C3-PFHxS - ISTD	Calibration	5.309	10451	43890	0.2381	0.5275	0.4570	115.4
CAL4_1633_050824.d	PFHxS	13C3-PFHxS - ISTD	Calibration	5.301	25450	54589	0.4662	1.0327	1.1430	90.3
CAL5_1633_050824.d	PFHxS	13C3-PFHxS - ISTD	Calibration	5.309	55223	58673	0.9412	2.0848	2.2850	91.2
CAL6_1633_050824.d	PFHxS	13C3-PFHxS - ISTD	Calibration	5.301	112666	56563	1.9919	4.4121	4.5700	96.5

PFHxS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL7_1633_050824.d	PFHxS	13C3-PFHxS - ISTD	Calibration	5.301	282438	57441	4.9170	10.8916	11.4250	95.3
CAL8_1633_050824.d	PFHxS	13C3-PFHxS - ISTD	Calibration	5.293	541627	54054	10.0201	22.1953	22.8500	97.1
CAL9_1633_050824.d	PFHxS	13C3-PFHxS - ISTD	Calibration	5.293	1028534	50318	20.4408	45.2778	45.7000	99.1
CALA_1633_050824.d	PFHxS	13C3-PFHxS - ISTD	Calibration	5.293	1250019	49203	25.4055	56.2751	57.1250	98.5
IBL1_1633_050824.d	PFHxS	13C3-PFHxS - ISTD	Sample	5.309	0	54136	0.0000	ND		
ICV_1633_050824.d	PFHxS	13C3-PFHxS - ISTD	QC	5.284	245062	53813	4.5539	10.0873	10.0000	100.9
BIC_1633_050824.d	PFHxS	13C3-PFHxS - ISTD	Sample	5.285	0	66823	0.0000	ND		

7:3FTCA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	7:3FTCA	13C5-PFHxA - ISTD	Calibration	5.683	47101	219769	0.2143	4.5672	5.0000	91.3
CAL2_1633_050824.d	7:3FTCA	13C5-PFHxA - ISTD	Calibration	5.691	98096	218835	0.4483	9.5525	10.0000	95.5
CAL3_1633_050824.d	7:3FTCA	13C5-PFHxA - ISTD	Calibration	5.691	242454	185780	1.3051	27.8108	25.0000	111.2
CAL4_1633_050824.d	7:3FTCA	13C5-PFHxA - ISTD	Calibration	5.683	616835	225198	2.7391	58.3698	62.5000	93.4
CAL5_1633_050824.d	7:3FTCA	13C5-PFHxA - ISTD	Calibration	5.691	1333725	242691	5.4956	117.1106	125.0000	93.7
CAL6_1633_050824.d	7:3FTCA	13C5-PFHxA - ISTD	Calibration	5.683	2754744	234786	11.7330	250.0303	250.0000	100.0
CAL7_1633_050824.d	7:3FTCA	13C5-PFHxA - ISTD	Calibration	5.683	6803227	237546	28.6396	610.3098	625.0000	97.6
CAL8_1633_050824.d	7:3FTCA	13C5-PFHxA - ISTD	Calibration	5.674	13544134	222555	60.8575	1296.8714	1250.0000	103.7
CAL9_1633_050824.d	7:3FTCA	13C5-PFHxA - ISTD	Calibration	5.666	26426959	212714	124.2369	2647.4843	2500.0000	105.9
CALA_1633_050824.d	7:3FTCA	13C5-PFHxA - ISTD	Calibration	5.666	32693211	207725	157.3870	3353.9128	3120.0000	107.5
IBL1_1633_050824.d	7:3FTCA	13C5-PFHxA - ISTD	Sample	5.674	9140	221347	0.0413	0.8799		
ICV_1633_050824.d	7:3FTCA	13C5-PFHxA - ISTD	QC	5.683	89323	217759	0.4102	8.7411	10.0000	87.4
BIC_1633_050824.d	7:3FTCA	13C5-PFHxA - ISTD	Sample	5.674	2066	268128	0.0077	0.1642		

13C9-PFNA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	13C9-PFNA	13C5-PFNA	Calibration	5.721	137789	162030	0.8504	1.2470	1.2500	99.8
CAL2_1633_050824.d	13C9-PFNA	13C5-PFNA	Calibration	5.730	134613	163857	0.8215	1.2047	1.2500	96.4
CAL3_1633_050824.d	13C9-PFNA	13C5-PFNA	Calibration	5.730	114387	163206	0.7009	1.0278	1.2500	82.2
CAL4_1633_050824.d	13C9-PFNA	13C5-PFNA	Calibration	5.730	139489	166199	0.8393	1.2307	1.2500	98.5
CAL5_1633_050824.d	13C9-PFNA	13C5-PFNA	Calibration	5.730	153592	171694	0.8946	1.3118	1.2500	104.9
CAL6_1633_050824.d	13C9-PFNA	13C5-PFNA	Calibration	5.730	147330	169610	0.8686	1.2738	1.2500	101.9
CAL7_1633_050824.d	13C9-PFNA	13C5-PFNA	Calibration	5.721	147217	162850	0.9040	1.3256	1.2500	106.1
CAL8_1633_050824.d	13C9-PFNA	13C5-PFNA	Calibration	5.721	138219	153984	0.8976	1.3163	1.2500	105.3
CAL9_1633_050824.d	13C9-PFNA	13C5-PFNA	Calibration	5.713	123291	141968	0.8684	1.2735	1.2500	101.9
CALA_1633_050824.d	13C9-PFNA	13C5-PFNA	Calibration	5.721	122368	139220	0.8790	1.2889	1.2500	103.1
IBL1_1633_050824.d	13C9-PFNA	13C5-PFNA	Sample	5.713	146194	167493	0.8728	1.2799		
ICV_1633_050824.d	13C9-PFNA	13C5-PFNA	QC	5.713	141328	163721	0.8632	1.2658	1.2500	101.3
BIC_1633_050824.d	13C9-PFNA	13C5-PFNA	Sample	5.713	170933	170676	1.0015	1.4686		

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PFNA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	PFNA	13C9-PFNA - ISTD	Calibration	5.722	12227	137789	0.0887	0.1104	0.1000	110.4
CAL2_1633_050824.d	PFNA	13C9-PFNA - ISTD	Calibration	5.730	20149	134613	0.1497	0.1862	0.2000	93.1
CAL3_1633_050824.d	PFNA	13C9-PFNA - ISTD	Calibration	5.730	50896	114387	0.4449	0.5534	0.5000	110.7
CAL4_1633_050824.d	PFNA	13C9-PFNA - ISTD	Calibration	5.730	132207	139489	0.9478	1.1787	1.2500	94.3
CAL5_1633_050824.d	PFNA	13C9-PFNA - ISTD	Calibration	5.730	289748	153592	1.8865	2.3461	2.5000	93.8
CAL6_1633_050824.d	PFNA	13C9-PFNA - ISTD	Calibration	5.730	576605	147330	3.9137	4.8673	5.0000	97.3
CAL7_1633_050824.d	PFNA	13C9-PFNA - ISTD	Calibration	5.722	1376351	147217	9.3491	11.6271	12.5000	93.0
CAL8_1633_050824.d	PFNA	13C9-PFNA - ISTD	Calibration	5.722	2771925	138219	20.0546	24.9411	25.0000	99.8
CAL9_1633_050824.d	PFNA	13C9-PFNA - ISTD	Calibration	5.714	5150380	123291	41.7742	51.9530	50.0000	103.9
CALA_1633_050824.d	PFNA	13C9-PFNA - ISTD	Calibration	5.714	6377628	122368	52.1185	64.8177	62.5000	103.7
IBL1_1633_050824.d	PFNA	13C9-PFNA - ISTD	Sample	5.714	0	146194	0.0000	ND		
ICV_1633_050824.d	PFNA	13C9-PFNA - ISTD	QC	5.714	1116924	141328	7.9031	9.8288	10.0000	98.3
BIC_1633_050824.d	PFNA	13C9-PFNA - ISTD	Sample	5.575	1976089	170933	11.5606	14.3775		

PFHpS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	PFHpS	13C8-PFOS - ISTD	Calibration	5.857	2092	39062	0.0535	0.1016	0.0953	106.6
CAL2_1633_050824.d	PFHpS	13C8-PFOS - ISTD	Calibration	5.865	3742	39543	0.0946	0.1795	0.1906	94.2
CAL3_1633_050824.d	PFHpS	13C8-PFOS - ISTD	Calibration	5.865	9422	33162	0.2841	0.5390	0.4765	113.1
CAL4_1633_050824.d	PFHpS	13C8-PFOS - ISTD	Calibration	5.857	24676	40909	0.6032	1.1443	1.1910	96.1
CAL5_1633_050824.d	PFHpS	13C8-PFOS - ISTD	Calibration	5.865	51898	42582	1.2188	2.3122	2.3830	97.0
CAL6_1633_050824.d	PFHpS	13C8-PFOS - ISTD	Calibration	5.857	104463	42908	2.4346	4.6187	4.7650	96.9
CAL7_1633_050824.d	PFHpS	13C8-PFOS - ISTD	Calibration	5.857	258331	41186	6.2723	11.8992	11.9130	99.9
CAL8_1633_050824.d	PFHpS	13C8-PFOS - ISTD	Calibration	5.857	481798	39214	12.2864	23.3086	23.8250	97.8
CAL9_1633_050824.d	PFHpS	13C8-PFOS - ISTD	Calibration	5.848	881231	35859	24.5746	46.6206	47.6500	97.8
CALA_1633_050824.d	PFHpS	13C8-PFOS - ISTD	Calibration	5.848	1061959	33651	31.5576	59.8681	59.5630	100.5
IBL1_1633_050824.d	PFHpS	13C8-PFOS - ISTD	Sample	5.840	0	42041	0.0000	ND		
ICV_1633_050824.d	PFHpS	13C8-PFOS - ISTD	QC	5.848	202666	41726	4.8571	9.2144	10.0000	92.1
BIC_1633_050824.d	PFHpS	13C8-PFOS - ISTD	Sample	5.857	0	51348	0.0000	ND		

13C2-8:2FTS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	13C2-8:2FTS	18O2-PFHxS	Calibration	5.991	16554	52208	0.3171	4.8238	5.0000	96.5
CAL2_1633_050824.d	13C2-8:2FTS	18O2-PFHxS	Calibration	6.000	15200	52693	0.2885	4.3886	5.0000	87.8
CAL3_1633_050824.d	13C2-8:2FTS	18O2-PFHxS	Calibration	6.000	14951	53328	0.2804	4.2652	5.0000	85.3
CAL4_1633_050824.d	13C2-8:2FTS	18O2-PFHxS	Calibration	5.991	16816	52083	0.3229	4.9119	5.0000	98.2
CAL5_1633_050824.d	13C2-8:2FTS	18O2-PFHxS	Calibration	6.000	19257	55609	0.3463	5.2682	5.0000	105.4
CAL6_1633_050824.d	13C2-8:2FTS	18O2-PFHxS	Calibration	5.991	18703	54143	0.3454	5.2554	5.0000	105.1
CAL7_1633_050824.d	13C2-8:2FTS	18O2-PFHxS	Calibration	5.991	18102	53230	0.3401	5.1737	5.0000	103.5
CAL8_1633_050824.d	13C2-8:2FTS	18O2-PFHxS	Calibration	5.991	17394	52071	0.3340	5.0818	5.0000	101.6
CAL9_1633_050824.d	13C2-8:2FTS	18O2-PFHxS	Calibration	5.983	17157	47270	0.3630	5.5220	5.0000	110.4

13C2-8:2FTS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CALA_1633_050824.d	13C2-8:2FTS	18O2-PFHxS	Calibration	5.983	16714	47893	0.3490	5.3094	5.0000	106.2
IBL1_1633_050824.d	13C2-8:2FTS	18O2-PFHxS	Sample	5.983	21422	53211	0.4026	6.1248		
ICV_1633_050824.d	13C2-8:2FTS	18O2-PFHxS	QC	5.983	21290	53749	0.3961	6.0261	5.0000	120.5
BIC_1633_050824.d	13C2-8:2FTS	18O2-PFHxS	Sample	5.975	26538	55846	0.4752	7.2295		

8:2FTS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	8:2FTS	13C2-8:2FTS - ISTD	Calibration	5.984	3354	16554	0.2026	0.3969	0.3840	103.3
CAL2_1633_050824.d	8:2FTS	13C2-8:2FTS - ISTD	Calibration	6.000	6459	15200	0.4249	0.8324	0.7680	108.4
CAL3_1633_050824.d	8:2FTS	13C2-8:2FTS - ISTD	Calibration	6.000	16935	14951	1.1327	2.2188	1.9200	115.6
CAL4_1633_050824.d	8:2FTS	13C2-8:2FTS - ISTD	Calibration	5.992	41244	16816	2.4527	4.8045	4.8000	100.1
CAL5_1633_050824.d	8:2FTS	13C2-8:2FTS - ISTD	Calibration	6.000	96633	19257	5.0181	9.8299	9.6000	102.4
CAL6_1633_050824.d	8:2FTS	13C2-8:2FTS - ISTD	Calibration	5.992	181627	18703	9.7109	19.0225	19.2000	99.1
CAL7_1633_050824.d	8:2FTS	13C2-8:2FTS - ISTD	Calibration	5.992	421313	18102	23.2739	45.5907	48.0000	95.0
CAL8_1633_050824.d	8:2FTS	13C2-8:2FTS - ISTD	Calibration	5.992	779557	17394	44.8188	87.7944	96.0000	91.5
CAL9_1633_050824.d	8:2FTS	13C2-8:2FTS - ISTD	Calibration	5.984	1424507	17157	83.0256	162.6365	192.0000	84.7
CALA_1633_050824.d	8:2FTS	13C2-8:2FTS - ISTD	Calibration	5.984	1688762	16714	101.0365	197.9176		
IBL1_1633_050824.d	8:2FTS	13C2-8:2FTS - ISTD	Sample	5.975	0	21422	0.0000	ND		
ICV_1633_050824.d	8:2FTS	13C2-8:2FTS - ISTD	QC	5.984	105775	21290	4.9683	9.7322	10.0000	97.3
BIC_1633_050824.d	8:2FTS	13C2-8:2FTS - ISTD	Sample	5.967	0	26538	0.0000	ND		

13C6-PFDA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	13C6-PFDA	13C2-PFDA	Calibration	6.197	128447	133762	0.9603	1.2170	1.2500	97.4
CAL2_1633_050824.d	13C6-PFDA	13C2-PFDA	Calibration	6.213	131103	133081	0.9851	1.2485	1.2500	99.9
CAL3_1633_050824.d	13C6-PFDA	13C2-PFDA	Calibration	6.213	110050	136884	0.8040	1.0189	1.2500	81.5
CAL4_1633_050824.d	13C6-PFDA	13C2-PFDA	Calibration	6.205	136282	134833	1.0107	1.2810	1.2500	102.5
CAL5_1633_050824.d	13C6-PFDA	13C2-PFDA	Calibration	6.213	142745	137876	1.0353	1.3121	1.2500	105.0
CAL6_1633_050824.d	13C6-PFDA	13C2-PFDA	Calibration	6.205	142742	140266	1.0177	1.2898	1.2500	103.2
CAL7_1633_050824.d	13C6-PFDA	13C2-PFDA	Calibration	6.205	142394	128497	1.1082	1.4045	1.2500	112.4
CAL8_1633_050824.d	13C6-PFDA	13C2-PFDA	Calibration	6.205	128796	129539	0.9943	1.2601	1.2500	100.8
CAL9_1633_050824.d	13C6-PFDA	13C2-PFDA	Calibration	6.197	117506	121745	0.9652	1.2233	1.2500	97.9
CALA_1633_050824.d	13C6-PFDA	13C2-PFDA	Calibration	6.197	116560	118678	0.9821	1.2448	1.2500	99.6
IBL1_1633_050824.d	13C6-PFDA	13C2-PFDA	Sample	6.197	131590	126313	1.0418	1.3203		
ICV_1633_050824.d	13C6-PFDA	13C2-PFDA	QC	6.197	129690	127824	1.0146	1.2859	1.2500	102.9
BIC_1633_050824.d	13C6-PFDA	13C2-PFDA	Sample	6.189	167809	141930	1.1823	1.4985		

PFDA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	PFDA	13C6-PFDA - ISTD	Calibration	6.206	10689	128447	0.0832	0.1010	0.1000	101.0
CAL2_1633_050824.d	PFDA	13C6-PFDA - ISTD	Calibration	6.214	21258	131103	0.1621	0.1968	0.2000	98.4
CAL3_1633_050824.d	PFDA	13C6-PFDA - ISTD	Calibration	6.214	53185	110050	0.4833	0.5864	0.5000	117.3

PFDA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL4_1633_050824.d	PFDA	13C6-PFDA - ISTD	Calibration	6.206	132538	136282	0.9725	1.1801	1.2500	94.4
CAL5_1633_050824.d	PFDA	13C6-PFDA - ISTD	Calibration	6.214	271793	142745	1.9040	2.3105	2.5000	92.4
CAL6_1633_050824.d	PFDA	13C6-PFDA - ISTD	Calibration	6.206	559808	142742	3.9218	4.7590	5.0000	95.2
CAL7_1633_050824.d	PFDA	13C6-PFDA - ISTD	Calibration	6.206	1404987	142394	9.8669	11.9732	12.5000	95.8
CAL8_1633_050824.d	PFDA	13C6-PFDA - ISTD	Calibration	6.206	2710465	128796	21.0446	25.5369	25.0000	102.1
CAL9_1633_050824.d	PFDA	13C6-PFDA - ISTD	Calibration	6.197	5001970	117506	42.5679	51.6549	50.0000	103.3
CALA_1633_050824.d	PFDA	13C6-PFDA - ISTD	Calibration	6.197	6008958	116560	51.5525	62.5574	62.5000	100.1
IBL1_1633_050824.d	PFDA	13C6-PFDA - ISTD	Sample	6.189	0	131590	0.0000	ND		
ICV_1633_050824.d	PFDA	13C6-PFDA - ISTD	QC	6.206	1040478	129690	8.0228	9.7355	10.0000	97.4
BIC_1633_050824.d	PFDA	13C6-PFDA - ISTD	Sample	6.189	0	167809	0.0000	ND		

TDCA

Data File	Compound	Sample Type	RT	Resp.	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	TDCA	Calibration	6.216	342	ND		
CAL2_1633_050824.d	TDCA	Calibration	6.241	832	ND		
CAL3_1633_050824.d	TDCA	Calibration	6.241	1253	ND		
CAL4_1633_050824.d	TDCA	Calibration	6.225	4624	ND		
CAL5_1633_050824.d	TDCA	Calibration	6.233	10854	ND		
CAL6_1633_050824.d	TDCA	Calibration	6.233	20434	ND		
CAL7_1633_050824.d	TDCA	Calibration	6.225	50799	ND		
CAL8_1633_050824.d	TDCA	Calibration	6.225	100365	ND		
CAL9_1633_050824.d	TDCA	Calibration	6.216	192808	ND		
CALA_1633_050824.d	TDCA	Calibration	6.225	233492	ND		
IBL1_1633_050824.d	TDCA	Sample	6.225	72	ND		
ICV_1633_050824.d	TDCA	QC	6.175	50043	ND		
BIC_1633_050824.d	TDCA	Sample	6.216	156	ND		

D3-NMeFOSAA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	D3-NMeFOSAA	13C4-PFOS	Calibration	6.260	135451	43792	3.0931	4.7747	5.0000	95.5
CAL2_1633_050824.d	D3-NMeFOSAA	13C4-PFOS	Calibration	6.268	128410	44087	2.9127	4.4962	5.0000	89.9
CAL3_1633_050824.d	D3-NMeFOSAA	13C4-PFOS	Calibration	6.276	115831	45515	2.5449	3.9285	5.0000	78.6
CAL4_1633_050824.d	D3-NMeFOSAA	13C4-PFOS	Calibration	6.268	141492	45817	3.0882	4.7671	5.0000	95.3
CAL5_1633_050824.d	D3-NMeFOSAA	13C4-PFOS	Calibration	6.268	154132	47518	3.2436	5.0071	5.0000	100.1
CAL6_1633_050824.d	D3-NMeFOSAA	13C4-PFOS	Calibration	6.268	150610	46605	3.2316	4.9886	5.0000	99.8
CAL7_1633_050824.d	D3-NMeFOSAA	13C4-PFOS	Calibration	6.260	155309	42407	3.6624	5.6534	5.0000	113.1
CAL8_1633_050824.d	D3-NMeFOSAA	13C4-PFOS	Calibration	6.268	143728	42451	3.3857	5.2264	5.0000	104.5
CAL9_1633_050824.d	D3-NMeFOSAA	13C4-PFOS	Calibration	6.252	135390	38167	3.5473	5.4759	5.0000	109.5
CALA_1633_050824.d	D3-NMeFOSAA	13C4-PFOS	Calibration	6.260	133763	36339	3.6810	5.6822	5.0000	113.6
IBL1_1633_050824.d	D3-NMeFOSAA	13C4-PFOS	Sample	6.260	160058	46679	3.4289	5.2930		
ICV_1633_050824.d	D3-NMeFOSAA	13C4-PFOS	QC	6.260	157924	44522	3.5471	5.4755	5.0000	109.5

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D3-NMeFOSAA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
BIC_1633_050824.d	D3-NMeFOSAA	13C4-PFOS	Sample	6.252	198702	47635	4.1713	6.4391		

NMeFOSAA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	NMeFOSAA	D3-NMeFOSAA - ISTD	Calibration	6.261	1058	135451	0.0078	0.0921	0.1000	92.1
CAL2_1633_050824.d	NMeFOSAA	D3-NMeFOSAA - ISTD	Calibration	6.277	2410	128410	0.0188	0.2213	0.2000	110.7
CAL3_1633_050824.d	NMeFOSAA	D3-NMeFOSAA - ISTD	Calibration	6.277	5876	115831	0.0507	0.5982	0.5000	119.6
CAL4_1633_050824.d	NMeFOSAA	D3-NMeFOSAA - ISTD	Calibration	6.269	13408	141492	0.0948	1.1175	1.2500	89.4
CAL5_1633_050824.d	NMeFOSAA	D3-NMeFOSAA - ISTD	Calibration	6.277	31574	154132	0.2049	2.4157	2.5000	96.6
CAL6_1633_050824.d	NMeFOSAA	D3-NMeFOSAA - ISTD	Calibration	6.269	61481	150610	0.4082	4.8138	5.0000	96.3
CAL7_1633_050824.d	NMeFOSAA	D3-NMeFOSAA - ISTD	Calibration	6.269	157704	155309	1.0154	11.9743	12.5000	95.8
CAL8_1633_050824.d	NMeFOSAA	D3-NMeFOSAA - ISTD	Calibration	6.269	302857	143728	2.1071	24.8483	25.0000	99.4
CAL9_1633_050824.d	NMeFOSAA	D3-NMeFOSAA - ISTD	Calibration	6.261	571369	135390	4.2202	49.7658	50.0000	99.5
CALA_1633_050824.d	NMeFOSAA	D3-NMeFOSAA - ISTD	Calibration	6.261	712708	133763	5.3281	62.8316	62.5000	100.5
IBL1_1633_050824.d	NMeFOSAA	D3-NMeFOSAA - ISTD	Sample	6.261	0	160058	0.0000	ND		
ICV_1633_050824.d	NMeFOSAA	D3-NMeFOSAA - ISTD	QC	6.269	117125	157924	0.7417	8.7459	10.0000	87.5
BIC_1633_050824.d	NMeFOSAA	D3-NMeFOSAA - ISTD	Sample	6.269	0	198702	0.0000	ND		

13C8-PFOS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	13C8-PFOS	13C4-PFOS	Calibration	6.362	39062	43792	0.8920	2.4812	2.5000	99.2
CAL2_1633_050824.d	13C8-PFOS	13C4-PFOS	Calibration	6.362	39543	44087	0.8969	2.4949	2.5000	99.8
CAL3_1633_050824.d	13C8-PFOS	13C4-PFOS	Calibration	6.370	33162	45515	0.7286	2.0266	2.5000	81.1
CAL4_1633_050824.d	13C8-PFOS	13C4-PFOS	Calibration	6.362	40909	45817	0.8929	2.4836	2.5000	99.3
CAL5_1633_050824.d	13C8-PFOS	13C4-PFOS	Calibration	6.370	42582	47518	0.8961	2.4926	2.5000	99.7
CAL6_1633_050824.d	13C8-PFOS	13C4-PFOS	Calibration	6.362	42908	46605	0.9207	2.5609	2.5000	102.4
CAL7_1633_050824.d	13C8-PFOS	13C4-PFOS	Calibration	6.362	41186	42407	0.9712	2.7015	2.5000	108.1
CAL8_1633_050824.d	13C8-PFOS	13C4-PFOS	Calibration	6.362	39214	42451	0.9237	2.5695	2.5000	102.8
CAL9_1633_050824.d	13C8-PFOS	13C4-PFOS	Calibration	6.346	35859	38167	0.9395	2.6134	2.5000	104.5
CALA_1633_050824.d	13C8-PFOS	13C4-PFOS	Calibration	6.354	33651	36339	0.9260	2.5759	2.5000	103.0
IBL1_1633_050824.d	13C8-PFOS	13C4-PFOS	Sample	6.354	42041	46679	0.9006	2.5052		
ICV_1633_050824.d	13C8-PFOS	13C4-PFOS	QC	6.354	41726	44522	0.9372	2.6068	2.5000	104.3
BIC_1633_050824.d	13C8-PFOS	13C4-PFOS	Sample	6.346	51348	47635	1.0779	2.9984		

PFOS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	PFOS	13C8-PFOS - ISTD	Calibration	6.355	2394	39062	0.0613	0.1179	0.0928	127.1
CAL2_1633_050824.d	PFOS	13C8-PFOS - ISTD	Calibration	6.363	3709	39543	0.0938	0.1805	0.1856	97.2
CAL3_1633_050824.d	PFOS	13C8-PFOS - ISTD	Calibration	6.363	9190	33162	0.2771	0.5332	0.4640	114.9
CAL4_1633_050824.d	PFOS	13C8-PFOS - ISTD	Calibration	6.363	21632	40909	0.5288	1.0174	1.1600	87.7
CAL5_1633_050824.d	PFOS	13C8-PFOS - ISTD	Calibration	6.372	47294	42582	1.1107	2.1369	2.3200	92.1
CAL6_1633_050824.d	PFOS	13C8-PFOS - ISTD	Calibration	6.363	96364	42908	2.2458	4.3210	4.6400	93.1

PFOS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL7_1633_050824.d	PFOS	13C8-PFOS - ISTD	Calibration	6.355	236965	41186	5.7535	11.0698	11.6000	95.4
CAL8_1633_050824.d	PFOS	13C8-PFOS - ISTD	Calibration	6.363	451250	39214	11.5074	22.1404	23.2000	95.4
CAL9_1633_050824.d	PFOS	13C8-PFOS - ISTD	Calibration	6.347	841077	35859	23.4548	45.1275	46.4000	97.3
CALA_1633_050824.d	PFOS	13C8-PFOS - ISTD	Calibration	6.355	1011515	33651	30.0586	57.8332	58.0000	99.7
IBL1_1633_050824.d	PFOS	13C8-PFOS - ISTD	Sample	6.347	0	42041	0.0000	ND		
ICV_1633_050824.d	PFOS	13C8-PFOS - ISTD	QC	6.355	180565	41726	4.3274	8.3261	10.0000	83.3
BIC_1633_050824.d	PFOS	13C8-PFOS - ISTD	Sample	6.347	0	51348	0.0000	ND		

D5-NEtFOSAA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	D5-NEtFOSAA	13C4-PFOS	Calibration	6.463	66545	43792	1.5196	4.6357	5.0000	92.7
CAL2_1633_050824.d	D5-NEtFOSAA	13C4-PFOS	Calibration	6.471	66728	44087	1.5136	4.6173	5.0000	92.3
CAL3_1633_050824.d	D5-NEtFOSAA	13C4-PFOS	Calibration	6.471	57306	45515	1.2591	3.8410	5.0000	76.8
CAL4_1633_050824.d	D5-NEtFOSAA	13C4-PFOS	Calibration	6.463	73178	45817	1.5972	4.8723	5.0000	97.4
CAL5_1633_050824.d	D5-NEtFOSAA	13C4-PFOS	Calibration	6.471	78385	47518	1.6496	5.0322	5.0000	100.6
CAL6_1633_050824.d	D5-NEtFOSAA	13C4-PFOS	Calibration	6.471	78463	46605	1.6836	5.1360	5.0000	102.7
CAL7_1633_050824.d	D5-NEtFOSAA	13C4-PFOS	Calibration	6.463	77479	42407	1.8270	5.5736	5.0000	111.5
CAL8_1633_050824.d	D5-NEtFOSAA	13C4-PFOS	Calibration	6.463	75676	42451	1.7827	5.4382	5.0000	108.8
CAL9_1633_050824.d	D5-NEtFOSAA	13C4-PFOS	Calibration	6.455	65836	38167	1.7250	5.2622	5.0000	105.2
CALA_1633_050824.d	D5-NEtFOSAA	13C4-PFOS	Calibration	6.455	66605	36339	1.8329	5.5914	5.0000	111.8
IBL1_1633_050824.d	D5-NEtFOSAA	13C4-PFOS	Sample	6.463	83814	46679	1.7955	5.4775		
ICV_1633_050824.d	D5-NEtFOSAA	13C4-PFOS	QC	6.463	80586	44522	1.8100	5.5216	5.0000	110.4
BIC_1633_050824.d	D5-NEtFOSAA	13C4-PFOS	Sample	6.455	99855	47635	2.0962	6.3948		

NEtFOSAA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	NEtFOSAA	D5-NEtFOSAA - ISTD	Calibration	6.472	1423	66545	0.0214	0.0883	0.1000	88.3
CAL2_1633_050824.d	NEtFOSAA	D5-NEtFOSAA - ISTD	Calibration	6.480	3124	66728	0.0468	0.1934	0.2000	96.7
CAL3_1633_050824.d	NEtFOSAA	D5-NEtFOSAA - ISTD	Calibration	6.488	8210	57306	0.1433	0.5918	0.5000	118.4
CAL4_1633_050824.d	NEtFOSAA	D5-NEtFOSAA - ISTD	Calibration	6.472	21057	73178	0.2878	1.1887	1.2500	95.1
CAL5_1633_050824.d	NEtFOSAA	D5-NEtFOSAA - ISTD	Calibration	6.480	46978	78385	0.5993	2.4758	2.5000	99.0
CAL6_1633_050824.d	NEtFOSAA	D5-NEtFOSAA - ISTD	Calibration	6.472	93127	78463	1.1869	4.9030	5.0000	98.1
CAL7_1633_050824.d	NEtFOSAA	D5-NEtFOSAA - ISTD	Calibration	6.472	233689	77479	3.0162	12.4598	12.5000	99.7
CAL8_1633_050824.d	NEtFOSAA	D5-NEtFOSAA - ISTD	Calibration	6.472	443970	75676	5.8667	24.2354	25.0000	96.9
CAL9_1633_050824.d	NEtFOSAA	D5-NEtFOSAA - ISTD	Calibration	6.463	846990	65836	12.8652	53.1461	50.0000	106.3
CALA_1633_050824.d	NEtFOSAA	D5-NEtFOSAA - ISTD	Calibration	6.463	1023176	66605	15.3618	63.4597	62.5000	101.5
IBL1_1633_050824.d	NEtFOSAA	D5-NEtFOSAA - ISTD	Sample	6.463	0	83814	0.0000	ND		
ICV_1633_050824.d	NEtFOSAA	D5-NEtFOSAA - ISTD	QC	6.472	175895	80586	2.1827	9.0168	10.0000	90.2
BIC_1633_050824.d	NEtFOSAA	D5-NEtFOSAA - ISTD	Sample	6.463	0	99855	0.0000	ND		

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13C7-PFUnA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	13C7-PFUnA	13C2-PFDA	Calibration	6.653	109824	133762	0.8210	1.2853	1.2500	102.8
CAL2_1633_050824.d	13C7-PFUnA	13C2-PFDA	Calibration	6.661	105341	133081	0.7916	1.2392	1.2500	99.1
CAL3_1633_050824.d	13C7-PFUnA	13C2-PFDA	Calibration	6.661	93503	136884	0.6831	1.0694	1.2500	85.5
CAL4_1633_050824.d	13C7-PFUnA	13C2-PFDA	Calibration	6.653	111327	134833	0.8257	1.2926	1.2500	103.4
CAL5_1633_050824.d	13C7-PFUnA	13C2-PFDA	Calibration	6.661	121050	137876	0.8780	1.3745	1.2500	110.0
CAL6_1633_050824.d	13C7-PFUnA	13C2-PFDA	Calibration	6.653	117753	140266	0.8395	1.3142	1.2500	105.1
CAL7_1633_050824.d	13C7-PFUnA	13C2-PFDA	Calibration	6.653	113764	128497	0.8853	1.3860	1.2500	110.9
CAL8_1633_050824.d	13C7-PFUnA	13C2-PFDA	Calibration	6.653	104730	129539	0.8085	1.2657	1.2500	101.3
CAL9_1633_050824.d	13C7-PFUnA	13C2-PFDA	Calibration	6.644	87712	121745	0.7205	1.1279	1.2500	90.2
CALA_1633_050824.d	13C7-PFUnA	13C2-PFDA	Calibration	6.644	86826	118678	0.7316	1.1453	1.2500	91.6
IBL1_1633_050824.d	13C7-PFUnA	13C2-PFDA	Sample	6.653	113147	126313	0.8958	1.4023		
ICV_1633_050824.d	13C7-PFUnA	13C2-PFDA	QC	6.653	112806	127824	0.8825	1.3816	1.2500	110.5
BIC_1633_050824.d	13C7-PFUnA	13C2-PFDA	Sample	6.644	141927	141930	1.0000	1.5655		

PFUnA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	PFUnA	13C7-PFUnA - ISTD	Calibration	6.654	10226	109824	0.0931	0.1159	0.1000	115.9
CAL2_1633_050824.d	PFUnA	13C7-PFUnA - ISTD	Calibration	6.662	16287	105341	0.1546	0.1924	0.2000	96.2
CAL3_1633_050824.d	PFUnA	13C7-PFUnA - ISTD	Calibration	6.662	41413	93503	0.4429	0.5511	0.5000	110.2
CAL4_1633_050824.d	PFUnA	13C7-PFUnA - ISTD	Calibration	6.654	101889	111327	0.9152	1.1388	1.2500	91.1
CAL5_1633_050824.d	PFUnA	13C7-PFUnA - ISTD	Calibration	6.662	224860	121050	1.8576	2.3113	2.5000	92.5
CAL6_1633_050824.d	PFUnA	13C7-PFUnA - ISTD	Calibration	6.662	458009	117753	3.8896	4.8396	5.0000	96.8
CAL7_1633_050824.d	PFUnA	13C7-PFUnA - ISTD	Calibration	6.654	1103665	113764	9.7014	12.0710	12.5000	96.6
CAL8_1633_050824.d	PFUnA	13C7-PFUnA - ISTD	Calibration	6.654	2003300	104730	19.1282	23.8004	25.0000	95.2
CAL9_1633_050824.d	PFUnA	13C7-PFUnA - ISTD	Calibration	6.645	3649661	87712	41.6096	51.7730	50.0000	103.5
CALA_1633_050824.d	PFUnA	13C7-PFUnA - ISTD	Calibration	6.645	4452024	86826	51.2752	63.7994	62.5000	102.1
IBL1_1633_050824.d	PFUnA	13C7-PFUnA - ISTD	Sample	6.645	0	113147	0.0000	ND		
ICV_1633_050824.d	PFUnA	13C7-PFUnA - ISTD	QC	6.654	783165	112806	6.9426	8.6383	10.0000	86.4
BIC_1633_050824.d	PFUnA	13C7-PFUnA - ISTD	Sample	6.637	0	141927	0.0000	ND		

9Cl-PF3ONS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	9Cl-PF3ONS	13C3-HFPODA - ISTD	Calibration	6.704	32432	266562	0.1217	0.3687	0.3740	98.6
CAL2_1633_050824.d	9Cl-PF3ONS	13C3-HFPODA - ISTD	Calibration	6.712	68050	252154	0.2699	0.8178	0.7480	109.3
CAL3_1633_050824.d	9Cl-PF3ONS	13C3-HFPODA - ISTD	Calibration	6.712	160765	217006	0.7408	2.2448	1.8700	120.0
CAL4_1633_050824.d	9Cl-PF3ONS	13C3-HFPODA - ISTD	Calibration	6.704	418821	262532	1.5953	4.8341	4.6750	103.4
CAL5_1633_050824.d	9Cl-PF3ONS	13C3-HFPODA - ISTD	Calibration	6.712	819381	287101	2.8540	8.6481	9.3500	92.5
CAL6_1633_050824.d	9Cl-PF3ONS	13C3-HFPODA - ISTD	Calibration	6.704	1670868	273257	6.1146	18.5285	18.7000	99.1
CAL7_1633_050824.d	9Cl-PF3ONS	13C3-HFPODA - ISTD	Calibration	6.704	3980529	268431	14.8289	44.9342	46.7500	96.1
CAL8_1633_050824.d	9Cl-PF3ONS	13C3-HFPODA - ISTD	Calibration	6.704	7007602	244487	28.6625	86.8527	93.5000	92.9
CAL9_1633_050824.d	9Cl-PF3ONS	13C3-HFPODA - ISTD	Calibration	6.696	12122786	206136	58.8096	178.2039	187.0000	95.3

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9Cl-PF3ONS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CALA_1633_050824.d	9Cl-PF3ONS	13C3-HFPODA - ISTD	Calibration	6.696	14208007	198537	71.5635	216.8505	233.7500	92.8
IBL1_1633_050824.d	9Cl-PF3ONS	13C3-HFPODA - ISTD	Sample	6.696	0	263332	0.0000	ND		
ICV_1633_050824.d	9Cl-PF3ONS	13C3-HFPODA - ISTD	QC	6.704	828717	267288	3.1005	9.3950	10.0000	93.9
BIC_1633_050824.d	9Cl-PF3ONS	13C3-HFPODA - ISTD	Sample	6.696	0	325025	0.0000	ND		

PFNS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	PFNS	13C8-PFOS - ISTD	Calibration	6.826	1644	39062	0.0421	0.1034	0.0962	107.4
CAL2_1633_050824.d	PFNS	13C8-PFOS - ISTD	Calibration	6.834	2938	39543	0.0743	0.1825	0.1924	94.9
CAL3_1633_050824.d	PFNS	13C8-PFOS - ISTD	Calibration	6.834	7429	33162	0.2240	0.5503	0.4810	114.4
CAL4_1633_050824.d	PFNS	13C8-PFOS - ISTD	Calibration	6.826	18481	40909	0.4518	1.1097	1.2030	92.2
CAL5_1633_050824.d	PFNS	13C8-PFOS - ISTD	Calibration	6.834	41691	42582	0.9791	2.4050	2.4050	100.0
CAL6_1633_050824.d	PFNS	13C8-PFOS - ISTD	Calibration	6.834	82721	42908	1.9279	4.7357	4.8100	98.5
CAL7_1633_050824.d	PFNS	13C8-PFOS - ISTD	Calibration	6.826	203752	41186	4.9471	12.1520	12.0250	101.1
CAL8_1633_050824.d	PFNS	13C8-PFOS - ISTD	Calibration	6.826	374667	39214	9.5544	23.4694	24.0500	97.6
CAL9_1633_050824.d	PFNS	13C8-PFOS - ISTD	Calibration	6.819	674538	35859	18.8106	46.2062	48.1000	96.1
CALA_1633_050824.d	PFNS	13C8-PFOS - ISTD	Calibration	6.826	806306	33651	23.9605	58.8563	60.1250	97.9
IBL1_1633_050824.d	PFNS	13C8-PFOS - ISTD	Sample	6.826	0	42041	0.0000	ND		
ICV_1633_050824.d	PFNS	13C8-PFOS - ISTD	QC	6.826	163676	41726	3.9227	9.6356	10.0000	96.4
BIC_1633_050824.d	PFNS	13C8-PFOS - ISTD	Sample	6.819	0	51348	0.0000	ND		

13C2-PFDoA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	13C2-PFDoA	13C2-PFDA	Calibration	7.087	107829	133762	0.8061	1.2227	1.2500	97.8
CAL2_1633_050824.d	13C2-PFDoA	13C2-PFDA	Calibration	7.095	105449	133081	0.7924	1.2019	1.2500	96.1
CAL3_1633_050824.d	13C2-PFDoA	13C2-PFDA	Calibration	7.095	90457	136884	0.6608	1.0023	1.2500	80.2
CAL4_1633_050824.d	13C2-PFDoA	13C2-PFDA	Calibration	7.087	112646	134833	0.8354	1.2672	1.2500	101.4
CAL5_1633_050824.d	13C2-PFDoA	13C2-PFDA	Calibration	7.087	120818	137876	0.8763	1.3291	1.2500	106.3
CAL6_1633_050824.d	13C2-PFDoA	13C2-PFDA	Calibration	7.087	115910	140266	0.8264	1.2534	1.2500	100.3
CAL7_1633_050824.d	13C2-PFDoA	13C2-PFDA	Calibration	7.087	116620	128497	0.9076	1.3766	1.2500	110.1
CAL8_1633_050824.d	13C2-PFDoA	13C2-PFDA	Calibration	7.087	111064	129539	0.8574	1.3005	1.2500	104.0
CAL9_1633_050824.d	13C2-PFDoA	13C2-PFDA	Calibration	7.078	101939	121745	0.8373	1.2700	1.2500	101.6
CALA_1633_050824.d	13C2-PFDoA	13C2-PFDA	Calibration	7.078	99859	118678	0.8414	1.2763	1.2500	102.1
IBL1_1633_050824.d	13C2-PFDoA	13C2-PFDA	Sample	7.078	113741	126313	0.9005	1.3658		
ICV_1633_050824.d	13C2-PFDoA	13C2-PFDA	QC	7.078	111228	127824	0.8702	1.3199	1.2500	105.6
BIC_1633_050824.d	13C2-PFDoA	13C2-PFDA	Sample	7.078	139920	141930	0.9858	1.4953		

PFDoA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	PFDoA	13C2-PFDoA - ISTD	Calibration	7.087	9227	107829	0.0856	0.1032	0.1000	103.2
CAL2_1633_050824.d	PFDoA	13C2-PFDoA - ISTD	Calibration	7.096	18525	105449	0.1757	0.2119	0.2000	106.0
CAL3_1633_050824.d	PFDoA	13C2-PFDoA - ISTD	Calibration	7.087	43535	90457	0.4813	0.5806	0.5000	116.1

PFDoA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL4_1633_050824.d	PFDoA	13C2-PFDoA - ISTD	Calibration	7.087	108852	112646	0.9663	1.1658	1.2500	93.3
CAL5_1633_050824.d	PFDoA	13C2-PFDoA - ISTD	Calibration	7.087	236058	120818	1.9538	2.3572	2.5000	94.3
CAL6_1633_050824.d	PFDoA	13C2-PFDoA - ISTD	Calibration	7.087	464010	115910	4.0032	4.8296	5.0000	96.6
CAL7_1633_050824.d	PFDoA	13C2-PFDoA - ISTD	Calibration	7.087	1179281	116620	10.1122	12.1997	12.5000	97.6
CAL8_1633_050824.d	PFDoA	13C2-PFDoA - ISTD	Calibration	7.087	2253913	111064	20.2939	24.4834	25.0000	97.9
CAL9_1633_050824.d	PFDoA	13C2-PFDoA - ISTD	Calibration	7.079	4145127	101939	40.6630	49.0575	50.0000	98.1
CALA_1633_050824.d	PFDoA	13C2-PFDoA - ISTD	Calibration	7.079	5011661	99859	50.1876	60.5484	62.5000	96.9
IBL1_1633_050824.d	PFDoA	13C2-PFDoA - ISTD	Sample	7.079	1523	113741	0.0134	0.0162		
ICV_1633_050824.d	PFDoA	13C2-PFDoA - ISTD	QC	7.079	783214	111228	7.0415	8.4951	10.0000	85.0
BIC_1633_050824.d	PFDoA	13C2-PFDoA - ISTD	Sample	7.079	0	139920	0.0000	ND		

PFDS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	PFDS	13C8-PFOS - ISTD	Calibration	7.271	1361	39062	0.0348	0.1069	0.0965	110.8
CAL2_1633_050824.d	PFDS	13C8-PFOS - ISTD	Calibration	7.279	2395	39543	0.0606	0.1859	0.1930	96.3
CAL3_1633_050824.d	PFDS	13C8-PFOS - ISTD	Calibration	7.279	6178	33162	0.1863	0.5718	0.4825	118.5
CAL4_1633_050824.d	PFDS	13C8-PFOS - ISTD	Calibration	7.271	15165	40909	0.3707	1.1378	1.2060	94.3
CAL5_1633_050824.d	PFDS	13C8-PFOS - ISTD	Calibration	7.271	33495	42582	0.7866	2.4144	2.4130	100.1
CAL6_1633_050824.d	PFDS	13C8-PFOS - ISTD	Calibration	7.271	65963	42908	1.5373	4.7185	4.8250	97.8
CAL7_1633_050824.d	PFDS	13C8-PFOS - ISTD	Calibration	7.271	160311	41186	3.8923	11.9468	12.0630	99.0
CAL8_1633_050824.d	PFDS	13C8-PFOS - ISTD	Calibration	7.271	290783	39214	7.4153	22.7598	24.1250	94.3
CAL9_1633_050824.d	PFDS	13C8-PFOS - ISTD	Calibration	7.264	525780	35859	14.6622	45.0030	48.2500	93.3
CALA_1633_050824.d	PFDS	13C8-PFOS - ISTD	Calibration	7.264	631505	33651	18.7660	57.5988	60.3130	95.5
IBL1_1633_050824.d	PFDS	13C8-PFOS - ISTD	Sample	7.256	0	42041	0.0000	ND		
ICV_1633_050824.d	PFDS	13C8-PFOS - ISTD	QC	7.264	127924	41726	3.0658	9.4100	10.0000	94.1
BIC_1633_050824.d	PFDS	13C8-PFOS - ISTD	Sample	7.264	0	51348	0.0000	ND		

PFTrDA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	PFTrDA	13C2-PFDoA - ISTD	Calibration	7.508	8712	107829	0.0808	0.1144	0.1000	114.4
CAL2_1633_050824.d	PFTrDA	13C2-PFDoA - ISTD	Calibration	7.508	14225	105449	0.1349	0.1910	0.2000	95.5
CAL3_1633_050824.d	PFTrDA	13C2-PFDoA - ISTD	Calibration	7.508	36015	90457	0.3981	0.5638	0.5000	112.8
CAL4_1633_050824.d	PFTrDA	13C2-PFDoA - ISTD	Calibration	7.499	95948	112646	0.8518	1.2062	1.2500	96.5
CAL5_1633_050824.d	PFTrDA	13C2-PFDoA - ISTD	Calibration	7.508	203180	120818	1.6817	2.3816	2.5000	95.3
CAL6_1633_050824.d	PFTrDA	13C2-PFDoA - ISTD	Calibration	7.508	410603	115910	3.5424	5.0166	5.0000	100.3
CAL7_1633_050824.d	PFTrDA	13C2-PFDoA - ISTD	Calibration	7.508	984649	116620	8.4432	11.9570	12.5000	95.7
CAL8_1633_050824.d	PFTrDA	13C2-PFDoA - ISTD	Calibration	7.499	1847882	111064	16.6381	23.5622	25.0000	94.2
CAL9_1633_050824.d	PFTrDA	13C2-PFDoA - ISTD	Calibration	7.499	3464368	101939	33.9848	48.1280	50.0000	96.3
CALA_1633_050824.d	PFTrDA	13C2-PFDoA - ISTD	Calibration	7.499	4364883	99859	43.7106	61.9013	62.5000	99.0
IBL1_1633_050824.d	PFTrDA	13C2-PFDoA - ISTD	Sample	7.499	1507	113741	0.0132	0.0188		
ICV_1633_050824.d	PFTrDA	13C2-PFDoA - ISTD	QC	7.499	705794	111228	6.3454	8.9862	10.0000	89.9

PFTrDA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
BIC_1633_050824.d	PFTrDA	13C2-PFDoA - ISTD	Sample	7.499	1303	139920	0.0093	0.0132		

11Cl-PF3OUdS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	11Cl-PF3OUdS	13C3-HFPODA - ISTD	Calibration	7.592	28989	266562	0.1088	0.3685	0.3780	97.5
CAL2_1633_050824.d	11Cl-PF3OUdS	13C3-HFPODA - ISTD	Calibration	7.600	60577	252154	0.2402	0.8141	0.7560	107.7
CAL3_1633_050824.d	11Cl-PF3OUdS	13C3-HFPODA - ISTD	Calibration	7.600	146965	217006	0.6772	2.2949	1.8900	121.4
CAL4_1633_050824.d	11Cl-PF3OUdS	13C3-HFPODA - ISTD	Calibration	7.592	375500	262532	1.4303	4.8467	4.7250	102.6
CAL5_1633_050824.d	11Cl-PF3OUdS	13C3-HFPODA - ISTD	Calibration	7.592	730349	287101	2.5439	8.6202	9.4500	91.2
CAL6_1633_050824.d	11Cl-PF3OUdS	13C3-HFPODA - ISTD	Calibration	7.592	1519375	273257	5.5602	18.8414	18.9000	99.7
CAL7_1633_050824.d	11Cl-PF3OUdS	13C3-HFPODA - ISTD	Calibration	7.592	3523642	268431	13.1268	44.4815	47.2500	94.1
CAL8_1633_050824.d	11Cl-PF3OUdS	13C3-HFPODA - ISTD	Calibration	7.592	6511018	244487	26.6314	90.2430	94.5000	95.5
CAL9_1633_050824.d	11Cl-PF3OUdS	13C3-HFPODA - ISTD	Calibration	7.583	11060755	206136	53.6575	181.8238	189.0000	96.2
CALA_1633_050824.d	11Cl-PF3OUdS	13C3-HFPODA - ISTD	Calibration	7.592	13022603	198537	65.5928	222.2677	236.2500	94.1
IBL1_1633_050824.d	11Cl-PF3OUdS	13C3-HFPODA - ISTD	Sample	7.592	3087	263332	0.0117	0.0397		
ICV_1633_050824.d	11Cl-PF3OUdS	13C3-HFPODA - ISTD	QC	7.592	735632	267288	2.7522	9.3261	10.0000	93.3
BIC_1633_050824.d	11Cl-PF3OUdS	13C3-HFPODA - ISTD	Sample	7.583	933	325025	0.0029	0.0097		

13C8-PFOSA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	13C8-PFOSA	13C4-PFOS	Calibration	7.751	68363	43792	1.5611	2.4689	2.5000	98.8
CAL2_1633_050824.d	13C8-PFOSA	13C4-PFOS	Calibration	7.760	67208	44087	1.5244	2.4110	2.5000	96.4
CAL3_1633_050824.d	13C8-PFOSA	13C4-PFOS	Calibration	7.760	57167	45515	1.2560	1.9865	2.5000	79.5
CAL4_1633_050824.d	13C8-PFOSA	13C4-PFOS	Calibration	7.760	70253	45817	1.5333	2.4250	2.5000	97.0
CAL5_1633_050824.d	13C8-PFOSA	13C4-PFOS	Calibration	7.760	76009	47518	1.5996	2.5298	2.5000	101.2
CAL6_1633_050824.d	13C8-PFOSA	13C4-PFOS	Calibration	7.760	73110	46605	1.5687	2.4810	2.5000	99.2
CAL7_1633_050824.d	13C8-PFOSA	13C4-PFOS	Calibration	7.760	73481	42407	1.7328	2.7404	2.5000	109.6
CAL8_1633_050824.d	13C8-PFOSA	13C4-PFOS	Calibration	7.760	67034	42451	1.5791	2.4974	2.5000	99.9
CAL9_1633_050824.d	13C8-PFOSA	13C4-PFOS	Calibration	7.751	64334	38167	1.6856	2.6658	2.5000	106.6
CALA_1633_050824.d	13C8-PFOSA	13C4-PFOS	Calibration	7.760	64202	36339	1.7667	2.7942	2.5000	111.8
IBL1_1633_050824.d	13C8-PFOSA	13C4-PFOS	Sample	7.760	75440	46679	1.6161	2.5560		
ICV_1633_050824.d	13C8-PFOSA	13C4-PFOS	QC	7.751	72239	44522	1.6225	2.5661	2.5000	102.6
BIC_1633_050824.d	13C8-PFOSA	13C4-PFOS	Sample	7.751	91004	47635	1.9104	3.0214		

PFOSA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	PFOSA	13C8-PFOSA - ISTD	Calibration	7.753	2848	68363	0.0417	0.0943	0.1000	94.3
CAL2_1633_050824.d	PFOSA	13C8-PFOSA - ISTD	Calibration	7.761	5751	67208	0.0856	0.1938	0.2000	96.9
CAL3_1633_050824.d	PFOSA	13C8-PFOSA - ISTD	Calibration	7.761	14046	57167	0.2457	0.5565	0.5000	111.3
CAL4_1633_050824.d	PFOSA	13C8-PFOSA - ISTD	Calibration	7.753	36357	70253	0.5175	1.1721	1.2500	93.8
CAL5_1633_050824.d	PFOSA	13C8-PFOSA - ISTD	Calibration	7.761	81724	76009	1.0752	2.4351	2.5000	97.4
CAL6_1633_050824.d	PFOSA	13C8-PFOSA - ISTD	Calibration	7.761	162288	73110	2.2198	5.0274	5.0000	100.5

PFOSA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL7_1633_050824.d	PFOSA	13C8-PFOSA - ISTD	Calibration	7.753	400345	73481	5.4483	12.3394	12.5000	98.7
CAL8_1633_050824.d	PFOSA	13C8-PFOSA - ISTD	Calibration	7.761	762030	67034	11.3677	25.7460	25.0000	103.0
CAL9_1633_050824.d	PFOSA	13C8-PFOSA - ISTD	Calibration	7.753	1449655	64334	22.5334	51.0344	50.0000	102.1
CALA_1633_050824.d	PFOSA	13C8-PFOSA - ISTD	Calibration	7.753	1806506	64202	28.1380	63.7278	62.5000	102.0
IBL1_1633_050824.d	PFOSA	13C8-PFOSA - ISTD	Sample	7.744	0	75440	0.0000	ND		
ICV_1633_050824.d	PFOSA	13C8-PFOSA - ISTD	QC	7.753	292875	72239	4.0543	9.1822	10.0000	91.8
BIC_1633_050824.d	PFOSA	13C8-PFOSA - ISTD	Sample	7.753	421091	91004	4.6272	10.4797		

13C2-PFTeDA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	13C2-PFTeDA	13C2-PFDA	Calibration	7.902	92161	133762	0.6890	1.2137	1.2500	97.1
CAL2_1633_050824.d	13C2-PFTeDA	13C2-PFDA	Calibration	7.910	91263	133081	0.6858	1.2080	1.2500	96.6
CAL3_1633_050824.d	13C2-PFTeDA	13C2-PFDA	Calibration	7.910	76971	136884	0.5623	0.9905	1.2500	79.2
CAL4_1633_050824.d	13C2-PFTeDA	13C2-PFDA	Calibration	7.902	93731	134833	0.6952	1.2246	1.2500	98.0
CAL5_1633_050824.d	13C2-PFTeDA	13C2-PFDA	Calibration	7.902	99121	137876	0.7189	1.2664	1.2500	101.3
CAL6_1633_050824.d	13C2-PFTeDA	13C2-PFDA	Calibration	7.902	99195	140266	0.7072	1.2458	1.2500	99.7
CAL7_1633_050824.d	13C2-PFTeDA	13C2-PFDA	Calibration	7.902	100527	128497	0.7823	1.3781	1.2500	110.3
CAL8_1633_050824.d	13C2-PFTeDA	13C2-PFDA	Calibration	7.902	94382	129539	0.7286	1.2835	1.2500	102.7
CAL9_1633_050824.d	13C2-PFTeDA	13C2-PFDA	Calibration	7.902	93068	121745	0.7645	1.3466	1.2500	107.7
CALA_1633_050824.d	13C2-PFTeDA	13C2-PFDA	Calibration	7.902	90460	118678	0.7622	1.3427	1.2500	107.4
IBL1_1633_050824.d	13C2-PFTeDA	13C2-PFDA	Sample	7.902	102490	126313	0.8114	1.4293		
ICV_1633_050824.d	13C2-PFTeDA	13C2-PFDA	QC	7.893	100952	127824	0.7898	1.3912	1.2500	111.3
BIC_1633_050824.d	13C2-PFTeDA	13C2-PFDA	Sample	7.893	126343	141930	0.8902	1.5681		

PFTeDA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	PFTeDA	13C2-PFTeDA - ISTD	Calibration	7.902	7699	92161	0.0835	0.1038	0.1000	103.8
CAL2_1633_050824.d	PFTeDA	13C2-PFTeDA - ISTD	Calibration	7.911	14230	91263	0.1559	0.1938	0.2000	96.9
CAL3_1633_050824.d	PFTeDA	13C2-PFTeDA - ISTD	Calibration	7.911	35733	76971	0.4642	0.5770	0.5000	115.4
CAL4_1633_050824.d	PFTeDA	13C2-PFTeDA - ISTD	Calibration	7.902	90062	93731	0.9609	1.1942	1.2500	95.5
CAL5_1633_050824.d	PFTeDA	13C2-PFTeDA - ISTD	Calibration	7.902	201829	99121	2.0362	2.5306	2.5000	101.2
CAL6_1633_050824.d	PFTeDA	13C2-PFTeDA - ISTD	Calibration	7.902	397778	99195	4.0101	4.9839	5.0000	99.7
CAL7_1633_050824.d	PFTeDA	13C2-PFTeDA - ISTD	Calibration	7.902	996000	100527	9.9078	12.3138	12.5000	98.5
CAL8_1633_050824.d	PFTeDA	13C2-PFTeDA - ISTD	Calibration	7.902	1863567	94382	19.7450	24.5399	25.0000	98.2
CAL9_1633_050824.d	PFTeDA	13C2-PFTeDA - ISTD	Calibration	7.894	3583596	93068	38.5052	47.8557	50.0000	95.7
CALA_1633_050824.d	PFTeDA	13C2-PFTeDA - ISTD	Calibration	7.902	4324902	90460	47.8101	59.4201	62.5000	95.1
IBL1_1633_050824.d	PFTeDA	13C2-PFTeDA - ISTD	Sample	7.902	2183	102490	0.0213	0.0265		
ICV_1633_050824.d	PFTeDA	13C2-PFTeDA - ISTD	QC	7.894	814488	100952	8.0681	10.0273	10.0000	100.3
BIC_1633_050824.d	PFTeDA	13C2-PFTeDA - ISTD	Sample	7.894	1786	126343	0.0141	0.0176		

PFDoS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	PFDoS	13C8-PFOS - ISTD	Calibration	8.086	787	39062	0.0202	0.1011	0.0970	104.2
CAL2_1633_050824.d	PFDoS	13C8-PFOS - ISTD	Calibration	8.095	1464	39543	0.0370	0.1858	0.1940	95.7
CAL3_1633_050824.d	PFDoS	13C8-PFOS - ISTD	Calibration	8.086	3846	33162	0.1160	0.5820	0.4850	120.0
CAL4_1633_050824.d	PFDoS	13C8-PFOS - ISTD	Calibration	8.086	9374	40909	0.2292	1.1499	1.2130	94.8
CAL5_1633_050824.d	PFDoS	13C8-PFOS - ISTD	Calibration	8.086	20460	42582	0.4805	2.4110	2.4250	99.4
CAL6_1633_050824.d	PFDoS	13C8-PFOS - ISTD	Calibration	8.086	40253	42908	0.9381	4.7075	4.8500	97.1
CAL7_1633_050824.d	PFDoS	13C8-PFOS - ISTD	Calibration	8.078	98165	41186	2.3834	11.9598	12.1250	98.6
CAL8_1633_050824.d	PFDoS	13C8-PFOS - ISTD	Calibration	8.086	182240	39214	4.6473	23.3199	24.2500	96.2
CAL9_1633_050824.d	PFDoS	13C8-PFOS - ISTD	Calibration	8.078	332394	35859	9.2693	46.5128	48.5000	95.9
CALA_1633_050824.d	PFDoS	13C8-PFOS - ISTD	Calibration	8.078	398494	33651	11.8418	59.4212	60.6250	98.0
IBL1_1633_050824.d	PFDoS	13C8-PFOS - ISTD	Sample	8.086	0	42041	0.0000	ND		
ICV_1633_050824.d	PFDoS	13C8-PFOS - ISTD	QC	8.078	79127	41726	1.8964	9.5158	10.0000	95.2
BIC_1633_050824.d	PFDoS	13C8-PFOS - ISTD	Sample	8.078	0	51348	0.0000	ND		

D7-NMeFOSE

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	D7-NMeFOSE	13C4-PFOS	Calibration	9.065	284088	43792	6.4873	26.4002	25.0000	105.6
CAL2_1633_050824.d	D7-NMeFOSE	13C4-PFOS	Calibration	9.065	270669	44087	6.1395	24.9848	25.0000	99.9
CAL3_1633_050824.d	D7-NMeFOSE	13C4-PFOS	Calibration	9.065	229396	45515	5.0401	20.5107	25.0000	82.0
CAL4_1633_050824.d	D7-NMeFOSE	13C4-PFOS	Calibration	9.065	282220	45817	6.1597	25.0670	25.0000	100.3
CAL5_1633_050824.d	D7-NMeFOSE	13C4-PFOS	Calibration	9.065	296760	47518	6.2452	25.4149	25.0000	101.7
CAL6_1633_050824.d	D7-NMeFOSE	13C4-PFOS	Calibration	9.065	291891	46605	6.2631	25.4879	25.0000	102.0
CAL7_1633_050824.d	D7-NMeFOSE	13C4-PFOS	Calibration	9.065	285023	42407	6.7212	27.3521	25.0000	109.4
CAL8_1633_050824.d	D7-NMeFOSE	13C4-PFOS	Calibration	9.065	260341	42451	6.1327	24.9573	25.0000	99.8
CAL9_1633_050824.d	D7-NMeFOSE	13C4-PFOS	Calibration	9.057	228283	38167	5.9812	24.3408	25.0000	97.4
CALA_1633_050824.d	D7-NMeFOSE	13C4-PFOS	Calibration	9.057	227563	36339	6.2622	25.4843	25.0000	101.9
IBL1_1633_050824.d	D7-NMeFOSE	13C4-PFOS	Sample	9.065	319074	46679	6.8354	27.8170		
ICV_1633_050824.d	D7-NMeFOSE	13C4-PFOS	QC	9.057	306532	44522	6.8849	28.0183	25.0000	112.1
BIC_1633_050824.d	D7-NMeFOSE	13C4-PFOS	Sample	9.065	412063	47635	8.6503	35.2029		

NMeFOSE

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	NMeFOSE	D7-NMeFOSE - ISTD	Calibration	9.082	11241	284088	0.0396	0.9164	1.0000	91.6
CAL2_1633_050824.d	NMeFOSE	D7-NMeFOSE - ISTD	Calibration	9.090	23590	270669	0.0872	2.0185	2.0000	100.9
CAL3_1633_050824.d	NMeFOSE	D7-NMeFOSE - ISTD	Calibration	9.090	58855	229396	0.2566	5.9421	5.0000	118.8
CAL4_1633_050824.d	NMeFOSE	D7-NMeFOSE - ISTD	Calibration	9.082	149235	282220	0.5288	12.2467	12.5000	98.0
CAL5_1633_050824.d	NMeFOSE	D7-NMeFOSE - ISTD	Calibration	9.082	326317	296760	1.0996	25.4666	25.0000	101.9
CAL6_1633_050824.d	NMeFOSE	D7-NMeFOSE - ISTD	Calibration	9.082	626478	291891	2.1463	49.7077	50.0000	99.4
CAL7_1633_050824.d	NMeFOSE	D7-NMeFOSE - ISTD	Calibration	9.082	1523152	285023	5.3440	123.7658	125.0000	99.0
CAL8_1633_050824.d	NMeFOSE	D7-NMeFOSE - ISTD	Calibration	9.082	2744108	260341	10.5404	244.1162	250.0000	97.6
CAL9_1633_050824.d	NMeFOSE	D7-NMeFOSE - ISTD	Calibration	9.082	4886387	228283	21.4050	495.7388	500.0000	99.1

NMeFOSE

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CALA_1633_050824.d	NMeFOSE	D7-NMeFOSE - ISTD	Calibration	9.082	5743801	227563	25.2405	584.5683	625.0000	93.5
IBL1_1633_050824.d	NMeFOSE	D7-NMeFOSE - ISTD	Sample	9.082	1753	319074	0.0055	0.1273		
ICV_1633_050824.d	NMeFOSE	D7-NMeFOSE - ISTD	QC	9.082	125063	306532	0.4080	9.4491	10.0000	94.5
BIC_1633_050824.d	NMeFOSE	D7-NMeFOSE - ISTD	Sample	9.082	113271	412063	0.2749	6.3664		

D3-NMeFOSA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	D3-NMeFOSA	13C4-PFOS	Calibration	9.210	22116	43792	0.5050	2.4903	2.5000	99.6
CAL2_1633_050824.d	D3-NMeFOSA	13C4-PFOS	Calibration	9.210	20877	44087	0.4735	2.3350	2.5000	93.4
CAL3_1633_050824.d	D3-NMeFOSA	13C4-PFOS	Calibration	9.210	17955	45515	0.3945	1.9451	2.5000	77.8
CAL4_1633_050824.d	D3-NMeFOSA	13C4-PFOS	Calibration	9.210	21752	45817	0.4748	2.3409	2.5000	93.6
CAL5_1633_050824.d	D3-NMeFOSA	13C4-PFOS	Calibration	9.210	24013	47518	0.5053	2.4917	2.5000	99.7
CAL6_1633_050824.d	D3-NMeFOSA	13C4-PFOS	Calibration	9.210	23685	46605	0.5082	2.5059	2.5000	100.2
CAL7_1633_050824.d	D3-NMeFOSA	13C4-PFOS	Calibration	9.210	23283	42407	0.5490	2.7072	2.5000	108.3
CAL8_1633_050824.d	D3-NMeFOSA	13C4-PFOS	Calibration	9.210	22097	42451	0.5205	2.5667	2.5000	102.7
CAL9_1633_050824.d	D3-NMeFOSA	13C4-PFOS	Calibration	9.210	21428	38167	0.5614	2.7683	2.5000	110.7
CALA_1633_050824.d	D3-NMeFOSA	13C4-PFOS	Calibration	9.210	20995	36339	0.5778	2.8488	2.5000	114.0
IBL1_1633_050824.d	D3-NMeFOSA	13C4-PFOS	Sample	9.210	23957	46679	0.5132	2.5307		
ICV_1633_050824.d	D3-NMeFOSA	13C4-PFOS	QC	9.210	23677	44522	0.5318	2.6222	2.5000	104.9
BIC_1633_050824.d	D3-NMeFOSA	13C4-PFOS	Sample	9.210	29818	47635	0.6260	3.0866		

NMeFOSA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	NMeFOSA	D3-NMeFOSA - ISTD	Calibration	9.211	936	22116	0.0423	0.0873	0.1000	87.3
CAL2_1633_050824.d	NMeFOSA	D3-NMeFOSA - ISTD	Calibration	9.211	2089	20877	0.1000	0.2065	0.2000	103.3
CAL3_1633_050824.d	NMeFOSA	D3-NMeFOSA - ISTD	Calibration	9.220	5179	17955	0.2885	0.5955	0.5000	119.1
CAL4_1633_050824.d	NMeFOSA	D3-NMeFOSA - ISTD	Calibration	9.211	13178	21752	0.6058	1.2508	1.2500	100.1
CAL5_1633_050824.d	NMeFOSA	D3-NMeFOSA - ISTD	Calibration	9.211	28301	24013	1.1786	2.4332	2.5000	97.3
CAL6_1633_050824.d	NMeFOSA	D3-NMeFOSA - ISTD	Calibration	9.211	56142	23685	2.3704	4.8936	5.0000	97.9
CAL7_1633_050824.d	NMeFOSA	D3-NMeFOSA - ISTD	Calibration	9.211	140466	23283	6.0330	12.4552	12.5000	99.6
CAL8_1633_050824.d	NMeFOSA	D3-NMeFOSA - ISTD	Calibration	9.211	266120	22097	12.0433	24.8633	25.0000	99.5
CAL9_1633_050824.d	NMeFOSA	D3-NMeFOSA - ISTD	Calibration	9.211	500967	21428	23.3796	48.2674	50.0000	96.5
CALA_1633_050824.d	NMeFOSA	D3-NMeFOSA - ISTD	Calibration	9.211	631739	20995	30.0899	62.1208	62.5000	99.4
IBL1_1633_050824.d	NMeFOSA	D3-NMeFOSA - ISTD	Sample	9.203	0	23957	0.0000	ND		
ICV_1633_050824.d	NMeFOSA	D3-NMeFOSA - ISTD	QC	9.211	113643	23677	4.7998	9.9091	10.0000	99.1
BIC_1633_050824.d	NMeFOSA	D3-NMeFOSA - ISTD	Sample	9.211	153718	29818	5.1552	10.6428		

D9-NEtFOSE

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	D9-NEtFOSE	13C4-PFOS	Calibration	9.411	314975	43792	7.1926	27.3547	25.0000	109.4
CAL2_1633_050824.d	D9-NEtFOSE	13C4-PFOS	Calibration	9.411	296755	44087	6.7311	25.5997	25.0000	102.4
CAL3_1633_050824.d	D9-NEtFOSE	13C4-PFOS	Calibration	9.411	254981	45515	5.6022	21.3061	25.0000	85.2

D9-NEtFOSE

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL4_1633_050824.d	D9-NEtFOSE	13C4-PFOS	Calibration	9.403	306761	45817	6.6953	25.4634	25.0000	101.9
CAL5_1633_050824.d	D9-NEtFOSE	13C4-PFOS	Calibration	9.411	321305	47518	6.7617	25.7159	25.0000	102.9
CAL6_1633_050824.d	D9-NEtFOSE	13C4-PFOS	Calibration	9.403	316027	46605	6.7810	25.7893	25.0000	103.2
CAL7_1633_050824.d	D9-NEtFOSE	13C4-PFOS	Calibration	9.403	300941	42407	7.0965	26.9893	25.0000	108.0
CAL8_1633_050824.d	D9-NEtFOSE	13C4-PFOS	Calibration	9.403	273096	42451	6.4332	24.4665	25.0000	97.9
CAL9_1633_050824.d	D9-NEtFOSE	13C4-PFOS	Calibration	9.403	235844	38167	6.1793	23.5010	25.0000	94.0
CALA_1633_050824.d	D9-NEtFOSE	13C4-PFOS	Calibration	9.403	227542	36339	6.2616	23.8141	25.0000	95.3
IBL1_1633_050824.d	D9-NEtFOSE	13C4-PFOS	Sample	9.403	352464	46679	7.5507	28.7168		
ICV_1633_050824.d	D9-NEtFOSE	13C4-PFOS	QC	9.403	349079	44522	7.8405	29.8188	25.0000	119.3
BIC_1633_050824.d	D9-NEtFOSE	13C4-PFOS	Sample	9.403	450610	47635	9.4595	35.9763		

NEtFOSE

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	NEtFOSE	D9-NEtFOSE - ISTD	Calibration	9.436	13317	314975	0.0423	0.9463	1.0000	94.6
CAL2_1633_050824.d	NEtFOSE	D9-NEtFOSE - ISTD	Calibration	9.436	26768	296755	0.0902	2.0190	2.0000	101.0
CAL3_1633_050824.d	NEtFOSE	D9-NEtFOSE - ISTD	Calibration	9.436	67434	254981	0.2645	5.9195	5.0000	118.4
CAL4_1633_050824.d	NEtFOSE	D9-NEtFOSE - ISTD	Calibration	9.428	168530	306761	0.5494	12.2968	12.5000	98.4
CAL5_1633_050824.d	NEtFOSE	D9-NEtFOSE - ISTD	Calibration	9.436	364668	321305	1.1350	25.4036	25.0000	101.6
CAL6_1633_050824.d	NEtFOSE	D9-NEtFOSE - ISTD	Calibration	9.428	702225	316027	2.2220	49.7356	50.0000	99.5
CAL7_1633_050824.d	NEtFOSE	D9-NEtFOSE - ISTD	Calibration	9.428	1662988	300941	5.5260	123.6867	125.0000	98.9
CAL8_1633_050824.d	NEtFOSE	D9-NEtFOSE - ISTD	Calibration	9.428	2955199	273096	10.8211	242.2065	250.0000	96.9
CAL9_1633_050824.d	NEtFOSE	D9-NEtFOSE - ISTD	Calibration	9.428	5080536	235844	21.5420	482.1699	500.0000	96.4
CALA_1633_050824.d	NEtFOSE	D9-NEtFOSE - ISTD	Calibration	9.428	5991668	227542	26.3322	589.3881	625.0000	94.3
IBL1_1633_050824.d	NEtFOSE	D9-NEtFOSE - ISTD	Sample	9.428	2173	352464	0.0062	0.1380		
ICV_1633_050824.d	NEtFOSE	D9-NEtFOSE - ISTD	QC	9.428	151704	349079	0.4346	9.7272	10.0000	97.3
BIC_1633_050824.d	NEtFOSE	D9-NEtFOSE - ISTD	Sample	9.428	138858	450610	0.3082	6.8974		

D5-NEtFOSA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	D5-NEtFOSA	13C4-PFOS	Calibration	9.555	23536	43792	0.5375	2.5406	2.5000	101.6
CAL2_1633_050824.d	D5-NEtFOSA	13C4-PFOS	Calibration	9.555	23615	44087	0.5356	2.5320	2.5000	101.3
CAL3_1633_050824.d	D5-NEtFOSA	13C4-PFOS	Calibration	9.555	19432	45515	0.4269	2.0182	2.5000	80.7
CAL4_1633_050824.d	D5-NEtFOSA	13C4-PFOS	Calibration	9.555	23780	45817	0.5190	2.4535	2.5000	98.1
CAL5_1633_050824.d	D5-NEtFOSA	13C4-PFOS	Calibration	9.555	25747	47518	0.5418	2.5613	2.5000	102.5
CAL6_1633_050824.d	D5-NEtFOSA	13C4-PFOS	Calibration	9.555	24992	46605	0.5363	2.5349	2.5000	101.4
CAL7_1633_050824.d	D5-NEtFOSA	13C4-PFOS	Calibration	9.555	25000	42407	0.5895	2.7868	2.5000	111.5
CAL8_1633_050824.d	D5-NEtFOSA	13C4-PFOS	Calibration	9.555	21987	42451	0.5179	2.4483	2.5000	97.9
CAL9_1633_050824.d	D5-NEtFOSA	13C4-PFOS	Calibration	9.555	20729	38167	0.5431	2.5673	2.5000	102.7
CALA_1633_050824.d	D5-NEtFOSA	13C4-PFOS	Calibration	9.555	19657	36339	0.5409	2.5571	2.5000	102.3
IBL1_1633_050824.d	D5-NEtFOSA	13C4-PFOS	Sample	9.555	26014	46679	0.5573	2.6343		
ICV_1633_050824.d	D5-NEtFOSA	13C4-PFOS	QC	9.555	25770	44522	0.5788	2.7361	2.5000	109.4

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D5-NEtFOSA

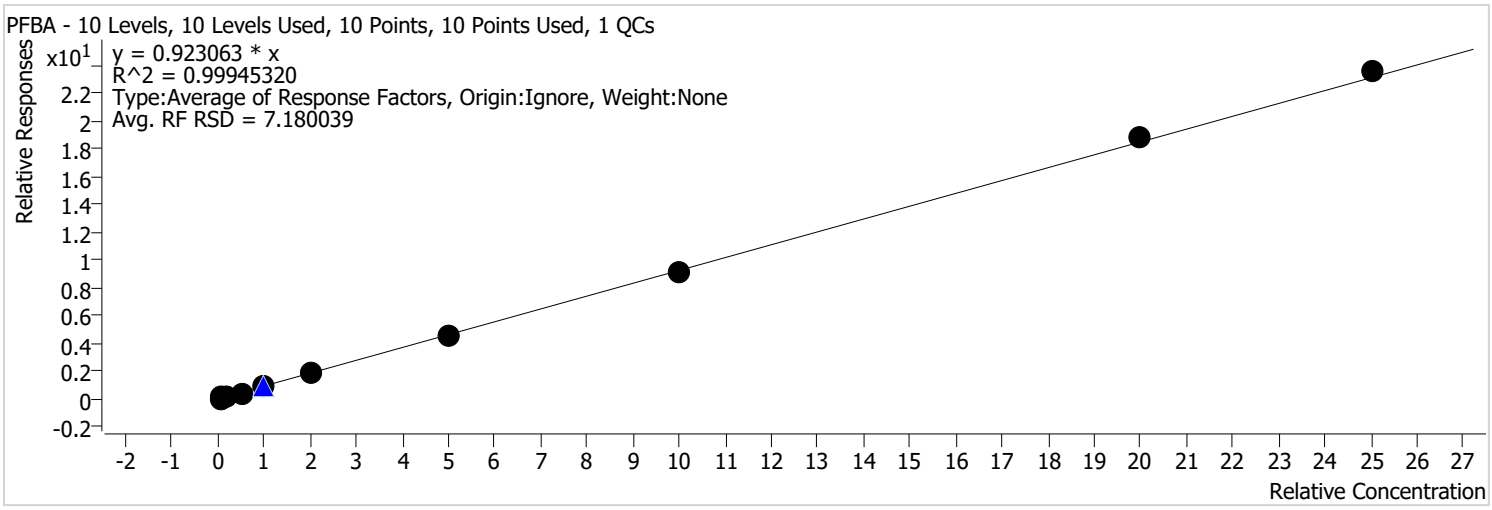
Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
BIC_1633_050824.d	D5-NEtFOSA	13C4-PFOS	Sample	9.555	32644	47635	0.6853	3.2395		

NEtFOSA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_050824.d	NEtFOSA	D5-NEtFOSA - ISTD	Calibration	9.565	1139	23536	0.0484	0.0932	0.1000	93.2
CAL2_1633_050824.d	NEtFOSA	D5-NEtFOSA - ISTD	Calibration	9.565	2340	23615	0.0991	0.1907	0.2000	95.3
CAL3_1633_050824.d	NEtFOSA	D5-NEtFOSA - ISTD	Calibration	9.565	5755	19432	0.2962	0.5701	0.5000	114.0
CAL4_1633_050824.d	NEtFOSA	D5-NEtFOSA - ISTD	Calibration	9.565	14572	23780	0.6128	1.1795	1.2500	94.4
CAL5_1633_050824.d	NEtFOSA	D5-NEtFOSA - ISTD	Calibration	9.565	31727	25747	1.2323	2.3719	2.5000	94.9
CAL6_1633_050824.d	NEtFOSA	D5-NEtFOSA - ISTD	Calibration	9.565	63843	24992	2.5545	4.9171	5.0000	98.3
CAL7_1633_050824.d	NEtFOSA	D5-NEtFOSA - ISTD	Calibration	9.565	159021	25000	6.3608	12.2437	12.5000	97.9
CAL8_1633_050824.d	NEtFOSA	D5-NEtFOSA - ISTD	Calibration	9.565	298277	21987	13.5661	26.1128	25.0000	104.5
CAL9_1633_050824.d	NEtFOSA	D5-NEtFOSA - ISTD	Calibration	9.565	549277	20729	26.4985	51.0057	50.0000	102.0
CALA_1633_050824.d	NEtFOSA	D5-NEtFOSA - ISTD	Calibration	9.565	673072	19657	34.2402	65.9072	62.5000	105.5
IBL1_1633_050824.d	NEtFOSA	D5-NEtFOSA - ISTD	Sample	9.556	0	26014	0.0000	ND		
ICV_1633_050824.d	NEtFOSA	D5-NEtFOSA - ISTD	QC	9.565	127544	25770	4.9494	9.5268	10.0000	95.3
BIC_1633_050824.d	NEtFOSA	D5-NEtFOSA - ISTD	Sample	9.565	158713	32644	4.8619	9.3584		

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:49 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/9/2024 9:16 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

PFBA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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R:\Data\MAY2024\050824_B\CAL2_1633_050824.d	Calibration	2	x	46248	0.8000	0.8989
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	119935	2.0000	1.0988
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	292165	5.0000	0.8742
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	631906	10.0000	0.8767
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV	x	586480	10.0000	0.8844
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	1259105	20.0000	0.9029
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	3164109	50.0000	0.8980
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	6022716	100.0000	0.9173
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	11436818	200.0000	0.9433
R:\Data\MAY2024\050824_B\CALA_1633_050824.d	Calibration	10	x	13740648	250.0000	0.9398

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
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Report Time	5/9/2024 9:24:49 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/9/2024 9:16 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

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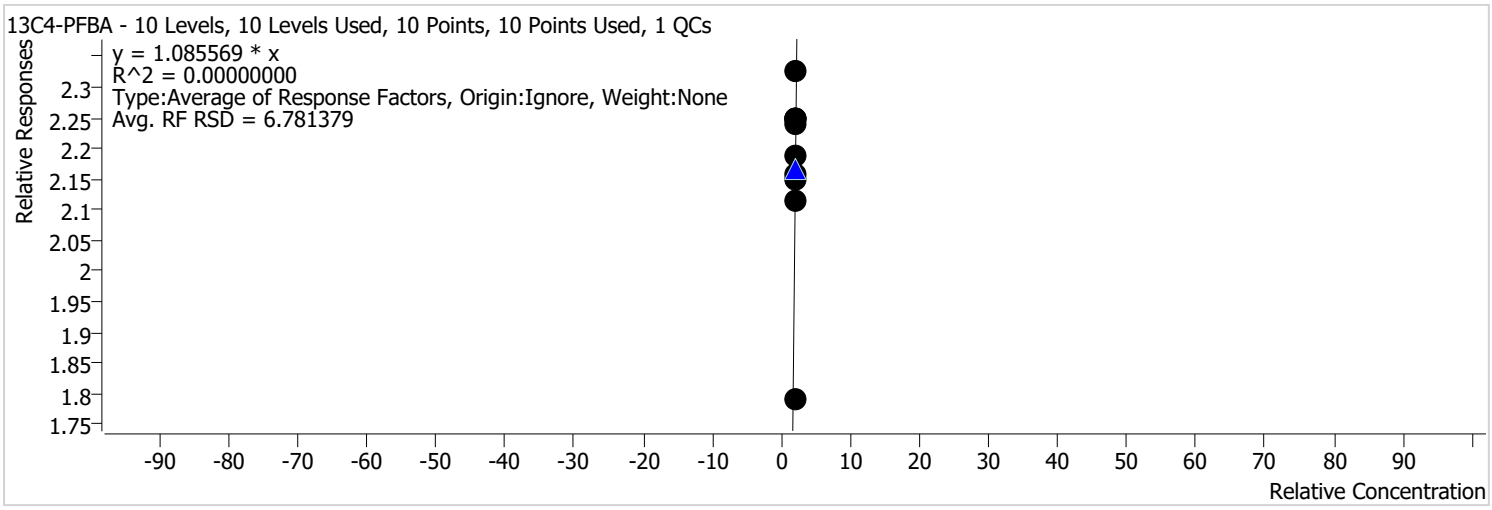

Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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R:\Data\MAY2024\050824_B\CALA_1633_050824.d	Calibration	10	x	584850	10.0000	1.1200
R:\Data\MAY2024\050824_B\CAL2_1633_050824.d	Calibration	2	x	643099	10.0000	1.0567
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	545772	10.0000	0.8956
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	668414	10.0000	1.0744
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	720778	10.0000	1.1244
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	697255	10.0000	1.0948
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	704675	10.0000	1.1622
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	656561	10.0000	1.1250
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	606232	10.0000	1.1240
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV	x	663160	10.0000	1.0819

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:49 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/9/2024 9:16 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

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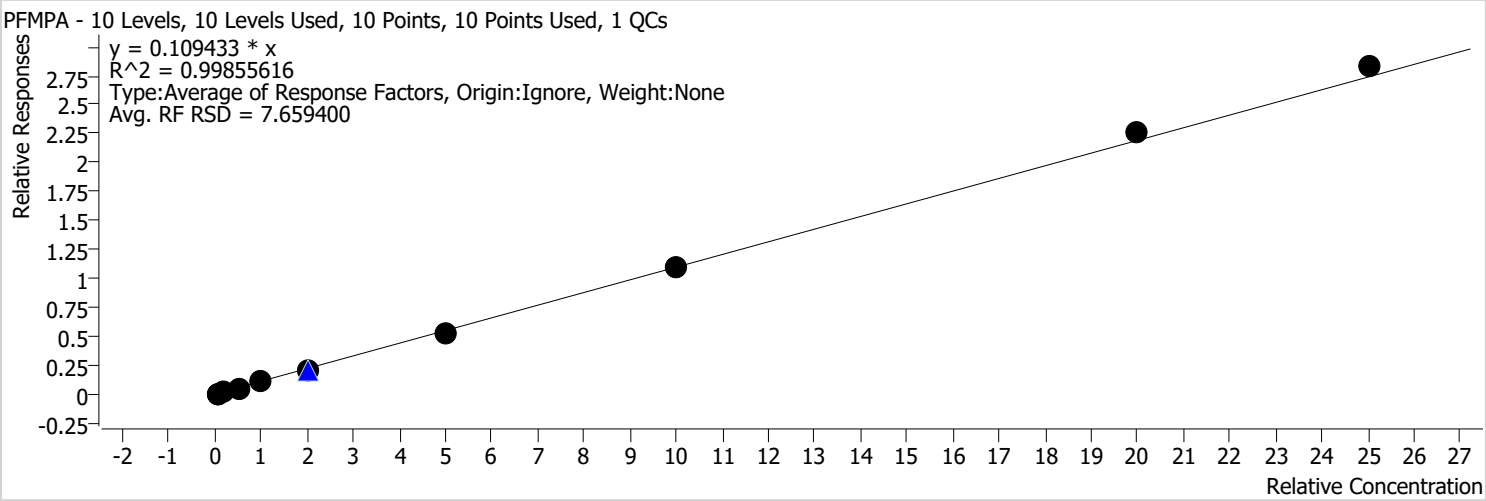

Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
R:\Data\MAY2024\050824_B\CAL1_1633_050824.d	Calibration	1	x	1865	0.2000	0.1173
R:\Data\MAY2024\050824_B\CAL2_1633_050824.d	Calibration	2	x	3261	0.4000	0.1027
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	8516	1.0000	0.1274
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	21502	2.5000	0.1054
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	44628	5.0000	0.1008
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	86277	10.0000	0.1014
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV	x	86167	10.0000	0.1064
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	224659	25.0000	0.1048
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	436585	50.0000	0.1087
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	832627	100.0000	0.1131
R:\Data\MAY2024\050824_B\CALA_1633_050824.d	Calibration	10	x	1004642	125.0000	0.1129

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:49 AM	**Reporter Name**	CONTEST\QQQ5
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Quant Batch Version	10.2	**Quant Report Version**	10.2

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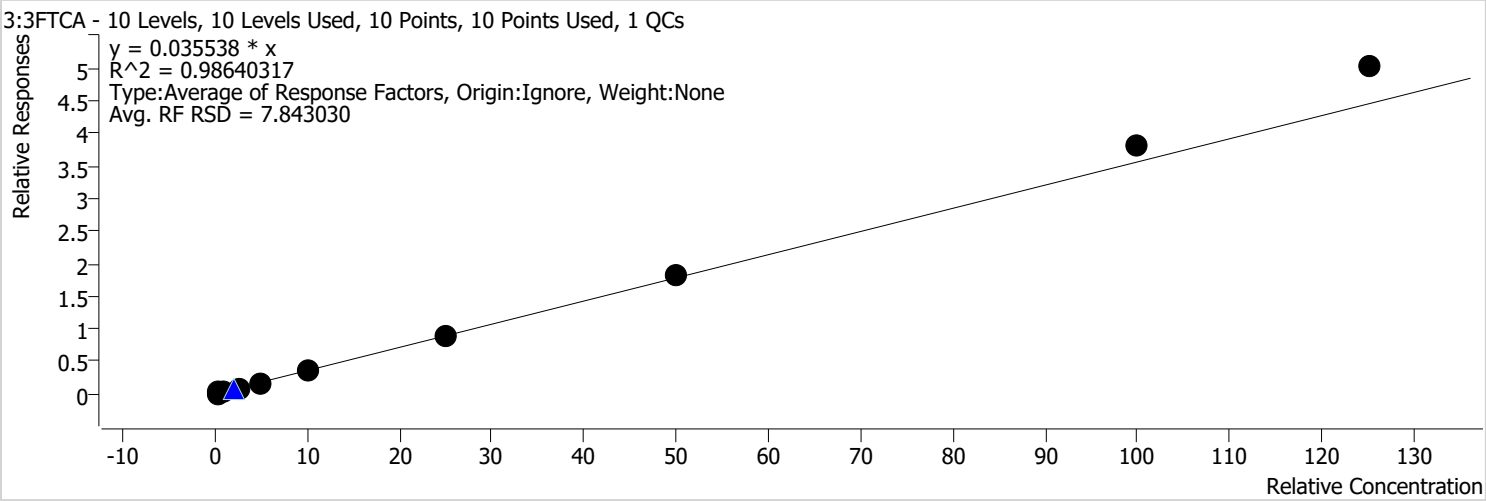

Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
R:\Data\MAY2024\050824_B\CAL1_1633_050824.d	Calibration	1	x	2502	1.0000	0.0315
R:\Data\MAY2024\050824_B\CAL2_1633_050824.d	Calibration	2	x	5479	2.0000	0.0345
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	13032	5.0000	0.0390
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV	x	25332	10.0000	0.0313
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	33457	12.5000	0.0328
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	74862	25.0000	0.0338
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	146582	50.0000	0.0345
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	373294	125.0000	0.0348
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	728084	250.0000	0.0363
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	1407030	500.0000	0.0382
R:\Data\MAY2024\050824_B\CALA_1633_050824.d	Calibration	10	x	1782871	625.0000	0.0401

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:49 AM	**Reporter Name**	CONTEST\QQQ5
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Quant Batch Version	10.2	**Quant Report Version**	10.2

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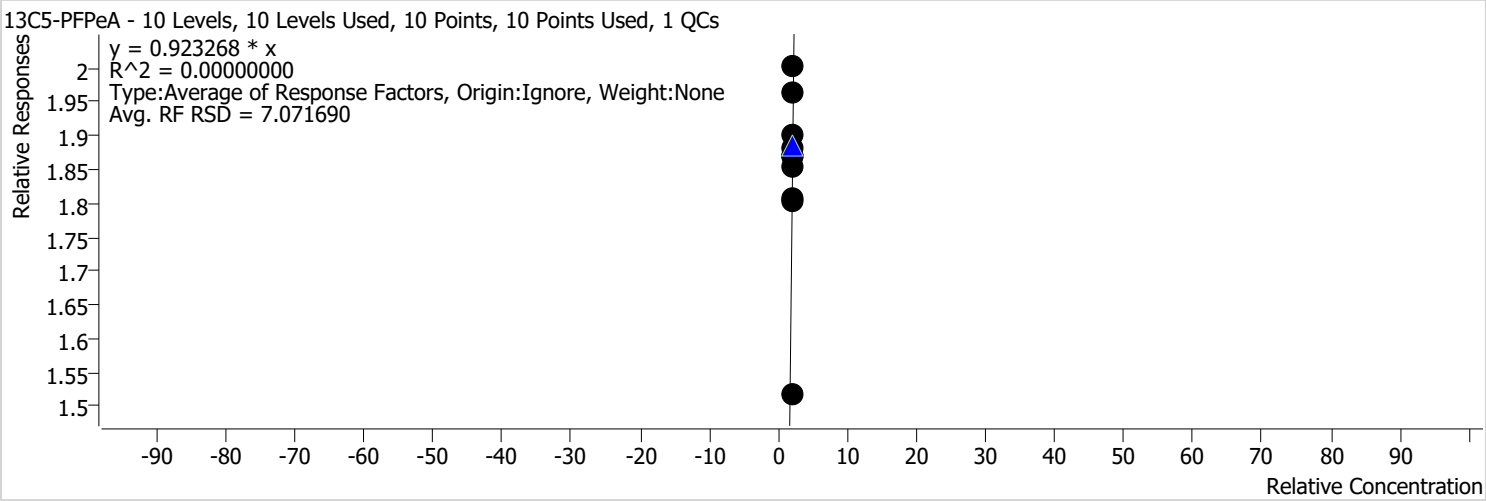

Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
R:\Data\MAY2024\050824_B\CAL1_1633_050824.d	Calibration	1	x	397400	5.0000	0.9348
R:\Data\MAY2024\050824_B\CALA_1633_050824.d	Calibration	10	x	355859	5.0000	0.9025
R:\Data\MAY2024\050824_B\CAL2_1633_050824.d	Calibration	2	x	396909	5.0000	0.9267
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	334310	5.0000	0.7593
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	408200	5.0000	0.9401
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	442868	5.0000	0.9811
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	425445	5.0000	0.9347
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	428808	5.0000	1.0006
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	401656	5.0000	0.9505
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	368242	5.0000	0.9024
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV	x	404755	5.0000	0.9429

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:49 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/9/2024 9:16 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

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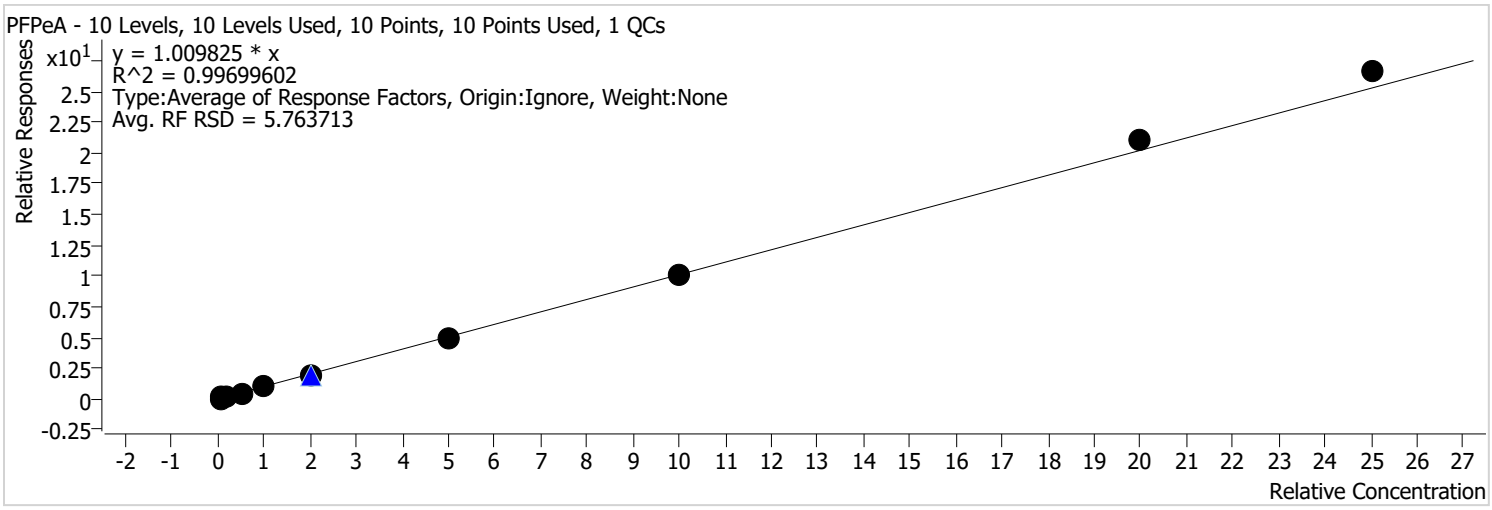

Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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R:\Data\MAY2024\050824_B\CAL2_1633_050824.d	Calibration	2	x	31221	0.4000	0.9833
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	75866	1.0000	1.1347
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	196385	2.5000	0.9622
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	427865	5.0000	0.9661
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	842529	10.0000	0.9902
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV	x	801104	10.0000	0.9896
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	2120026	25.0000	0.9888
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	4073756	50.0000	1.0142
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	7756395	100.0000	1.0532
R:\Data\MAY2024\050824_B\CALA_1633_050824.d	Calibration	10	x	9455214	125.0000	1.0628

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:49 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/9/2024 9:16 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

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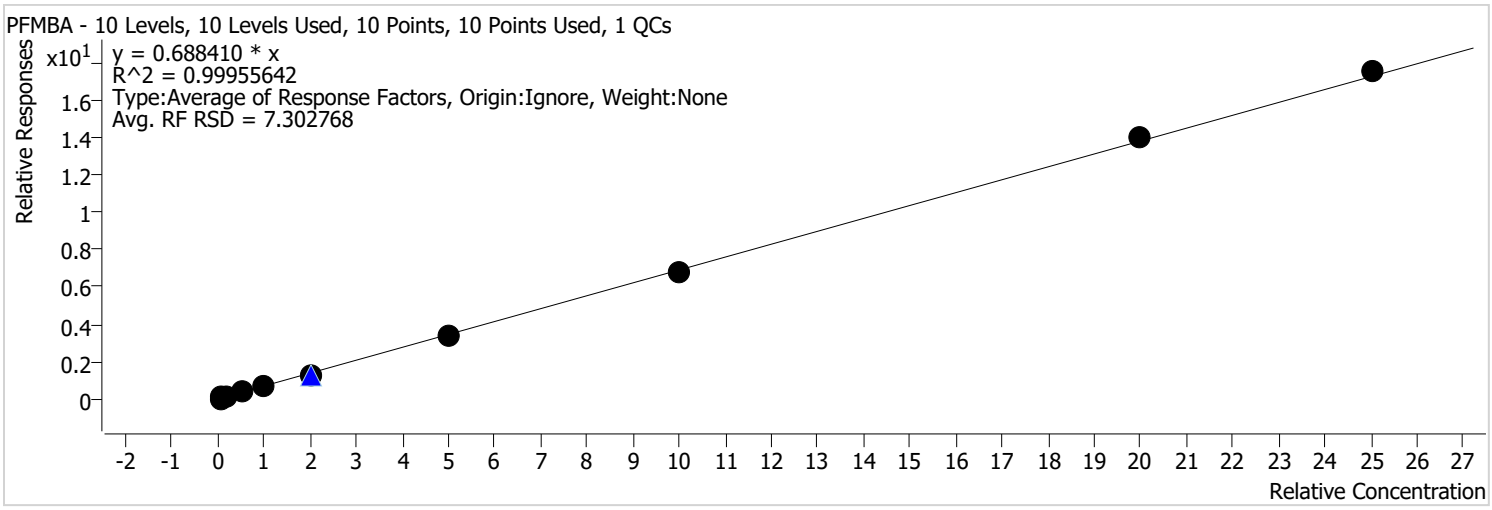

Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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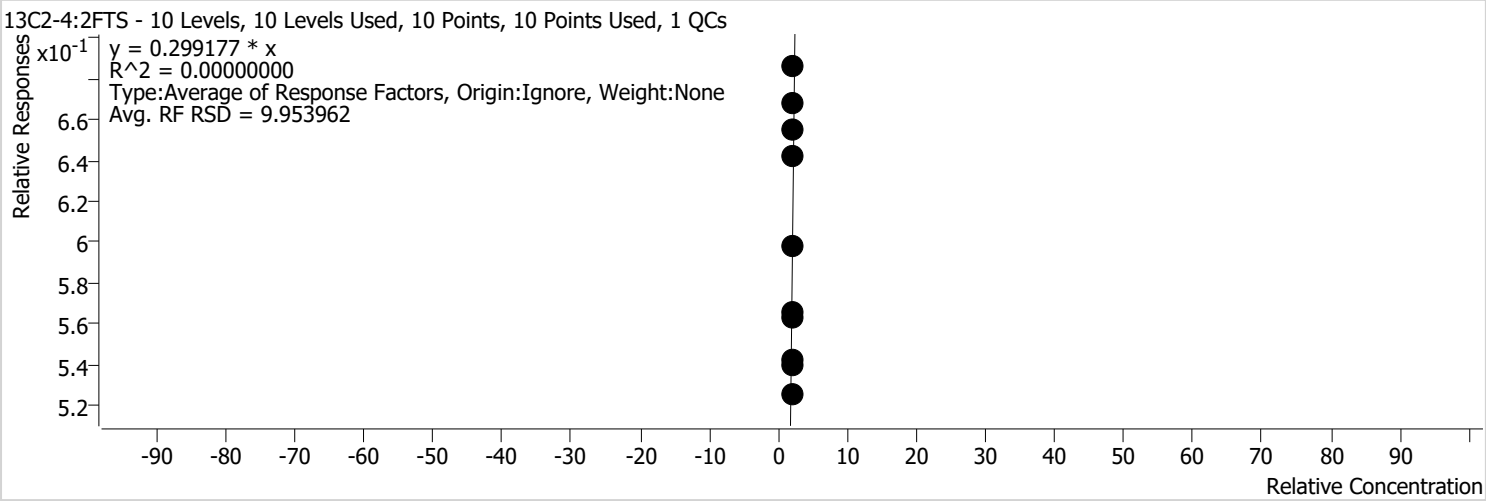
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	54950	1.0000	0.8218
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	140382	2.5000	0.6878
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	289535	5.0000	0.6538
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	560993	10.0000	0.6593
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV	x	508054	10.0000	0.6276
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	1418031	25.0000	0.6614
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	2741002	50.0000	0.6824
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	5169473	100.0000	0.7019
R:\Data\MAY2024\050824_B\CALA_1633_050824.d	Calibration	10	x	6213364	125.0000	0.6984

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:49 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/9/2024 9:16 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

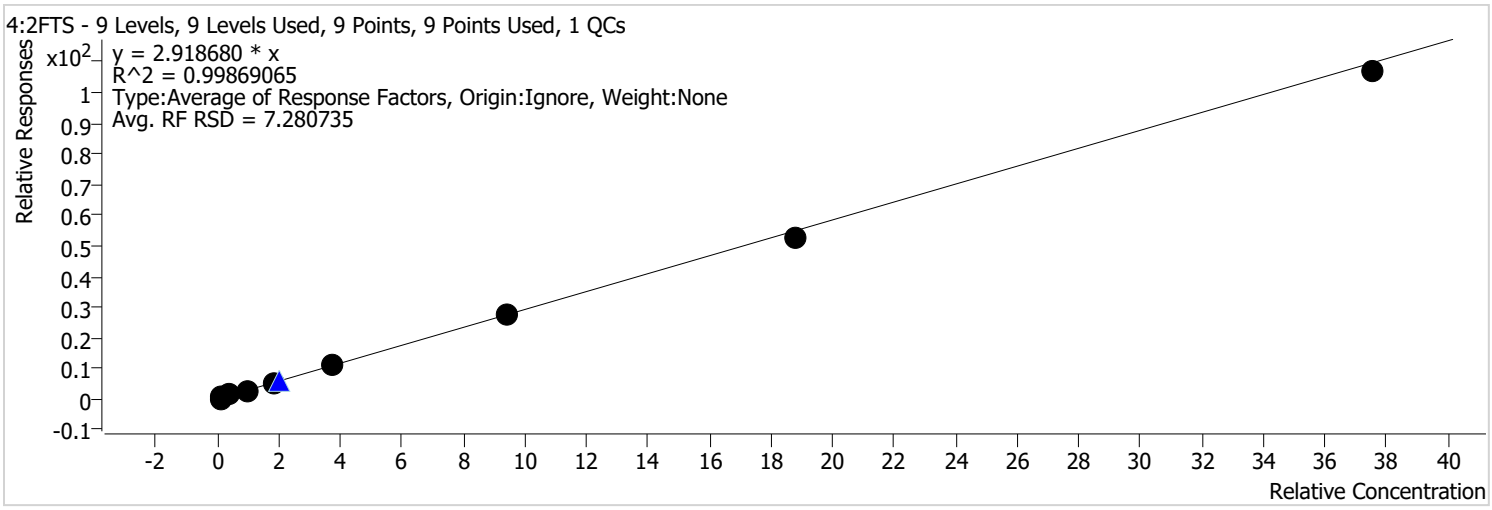
13C2-4:2FTS



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
R:\Data\MAY2024\050824_B\CAL1_1633_050824.d	Calibration	1	x	35800	5.0000	0.3429
R:\Data\MAY2024\050824_B\CALA_1633_050824.d	Calibration	10	x	25806	5.0000	0.2694
R:\Data\MAY2024\050824_B\CAL2_1633_050824.d	Calibration	2	x	29675	5.0000	0.2816
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	28031	5.0000	0.2628
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	34140	5.0000	0.3277
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	37123	5.0000	0.3338
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	34775	5.0000	0.3211
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	31795	5.0000	0.2987
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	29436	5.0000	0.2827
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	25633	5.0000	0.2711
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV		36597	5.0000	0.3404

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:49 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/9/2024 9:16 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

4:2FTS



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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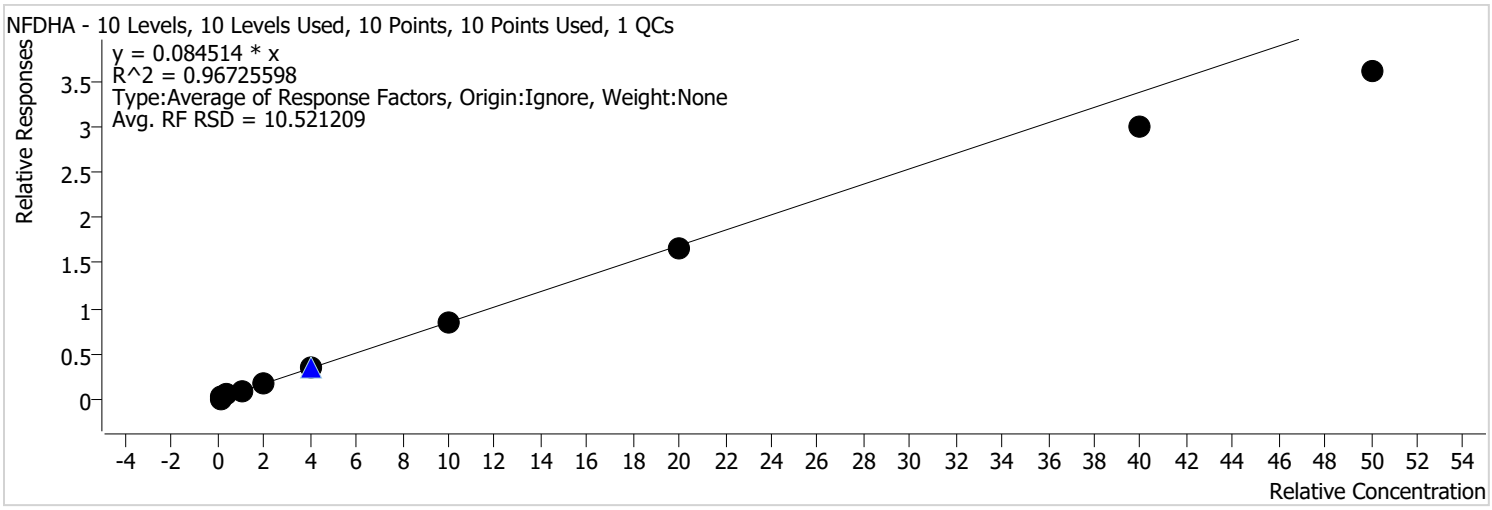
R:\Data\MAY2024\050824_B\CAL2_1633_050824.d	Calibration	2	x	13031	0.7500	2.9274
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	36261	1.8750	3.4496
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	91267	4.6880	2.8513
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	200783	9.3750	2.8846
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV	x	210510	10.0000	2.8761
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	380390	18.7500	2.9170
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	867346	46.8750	2.9098
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	1544001	93.7500	2.7975
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	2732157	187.5000	2.8424

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:49 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/9/2024 9:16 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

NFDHA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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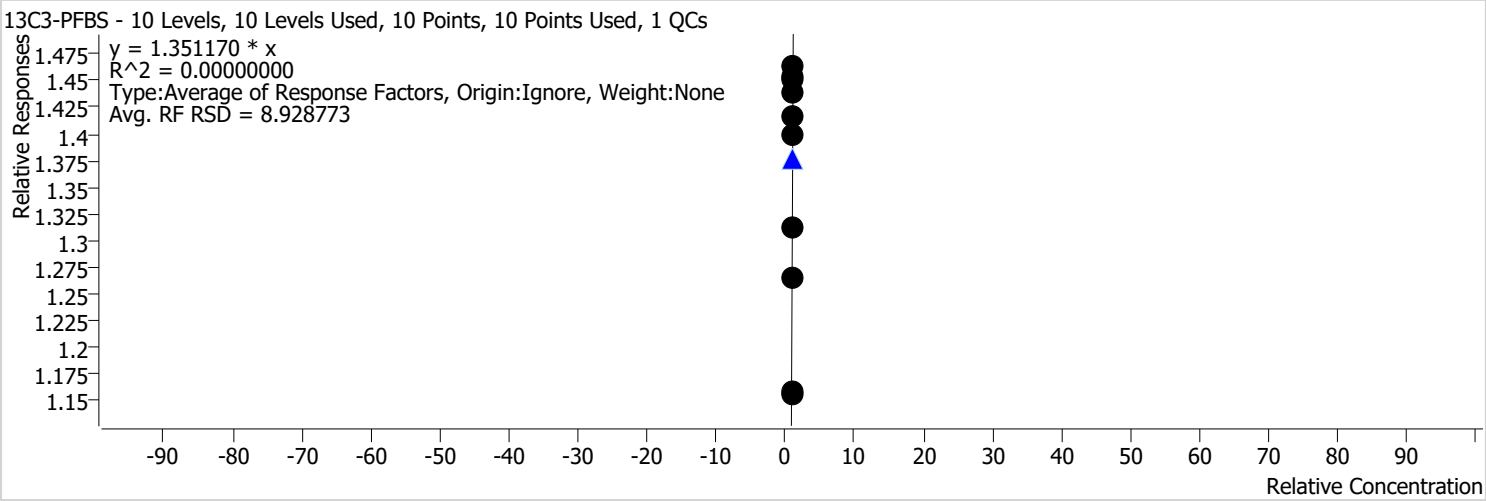
R:\Data\MAY2024\050824_B\CAL2_1633_050824.d	Calibration	2	x	3045	0.4000	0.0870
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	7801	1.0000	0.1050
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	18982	2.5000	0.0843
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	40011	5.0000	0.0824
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	78193	10.0000	0.0833
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV	x	77303	10.0000	0.0887
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	197030	25.0000	0.0829
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	367886	50.0000	0.0827
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	640392	100.0000	0.0753
R:\Data\MAY2024\050824_B\CALA_1633_050824.d	Calibration	10	x	748206	125.0000	0.0720

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:49 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/9/2024 9:16 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

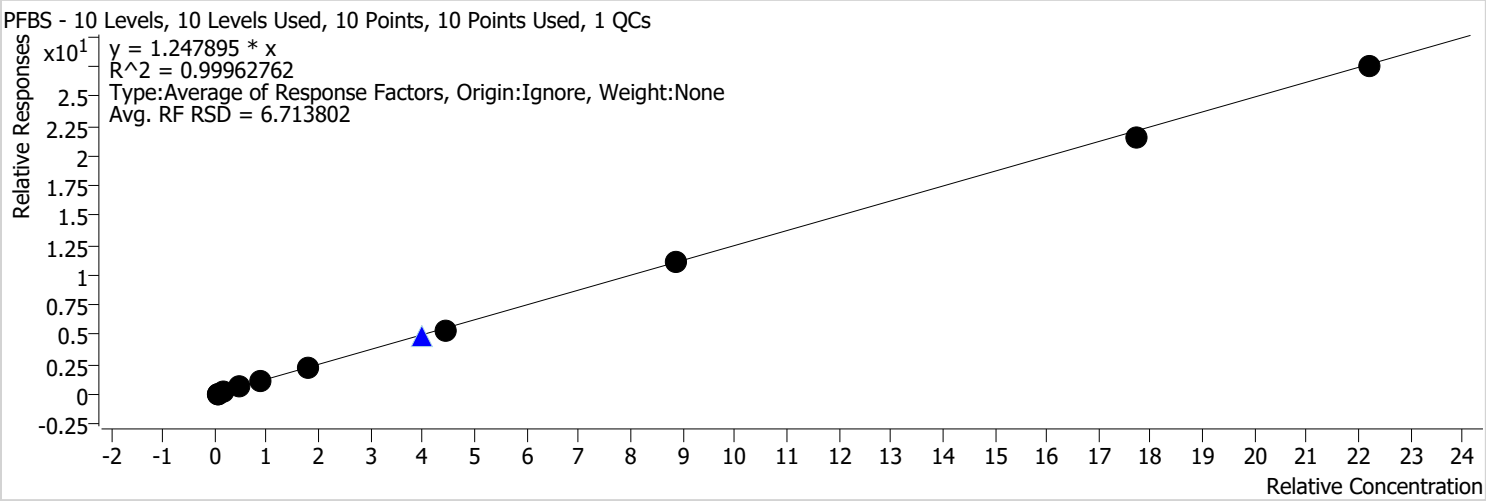
13C3-PFBS



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
R:\Data\MAY2024\050824_B\CAL1_1633_050824.d	Calibration	1	x	73887	2.5000	1.4152
R:\Data\MAY2024\050824_B\CALA_1633_050824.d	Calibration	10	x	55403	2.5000	1.1568
R:\Data\MAY2024\050824_B\CAL2_1633_050824.d	Calibration	2	x	73774	2.5000	1.4001
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	61723	2.5000	1.1574
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	75517	2.5000	1.4499
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	81333	2.5000	1.4626
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	77855	2.5000	1.4379
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	77403	2.5000	1.4541
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	68328	2.5000	1.3122
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	59814	2.5000	1.2654
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV	x	73982	2.5000	1.3764

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:49 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/9/2024 9:16 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

PFBS



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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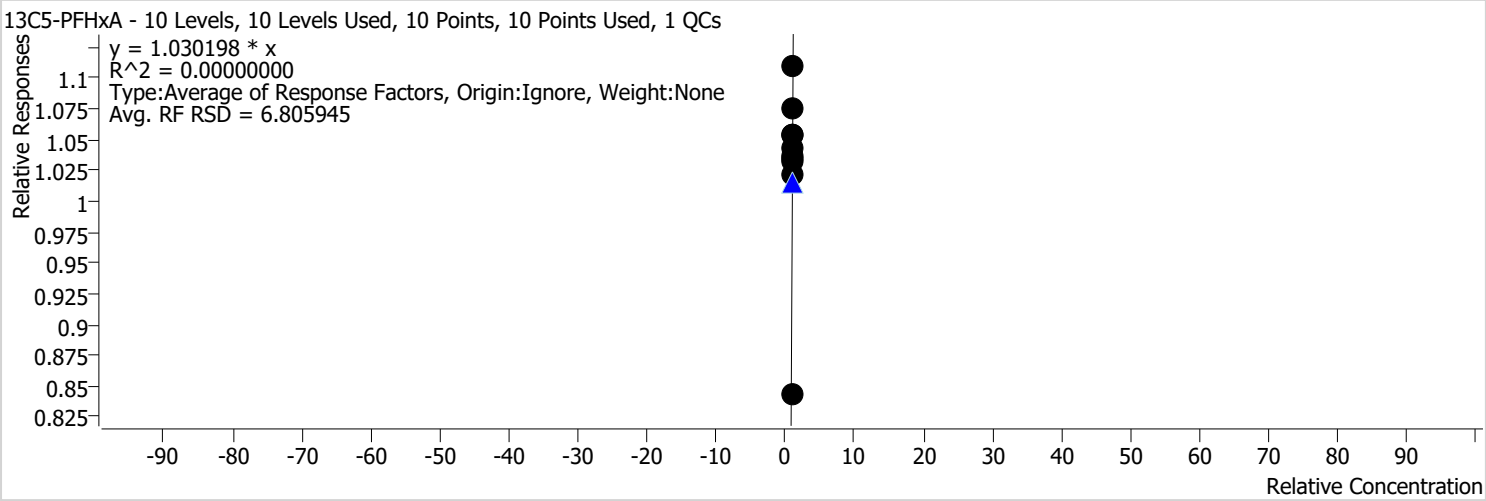
R:\Data\MAY2024\050824_B\CAL2_1633_050824.d	Calibration	2	x	6080	0.1774	1.1613
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	15693	0.4435	1.4331
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	40292	1.1090	1.2028
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	84854	2.2180	1.1759
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	171243	4.4350	1.2399
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV	x	368279	10.0000	1.2445
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	414762	11.0880	1.2082
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	753767	22.1750	1.2437
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	1293819	44.3500	1.2193
R:\Data\MAY2024\050824_B\CALA_1633_050824.d	Calibration	10	x	1522354	55.4380	1.2391

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:49 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/9/2024 9:16 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

13C5-PFHxA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
R:\Data\MAY2024\050824_B\CAL1_1633_050824.d	Calibration	1	x	219769	2.5000	1.0339
R:\Data\MAY2024\050824_B\CALA_1633_050824.d	Calibration	10	x	207725	2.5000	1.0537
R:\Data\MAY2024\050824_B\CAL2_1633_050824.d	Calibration	2	x	218835	2.5000	1.0218
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	185780	2.5000	0.8439
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	225198	2.5000	1.0373
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	242691	2.5000	1.0753
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	234786	2.5000	1.0317
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	237546	2.5000	1.1086
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	222555	2.5000	1.0533
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	212714	2.5000	1.0425
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV	x	217759	2.5000	1.0146

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:49 AM	**Reporter Name**	CONTEST\QQQ5
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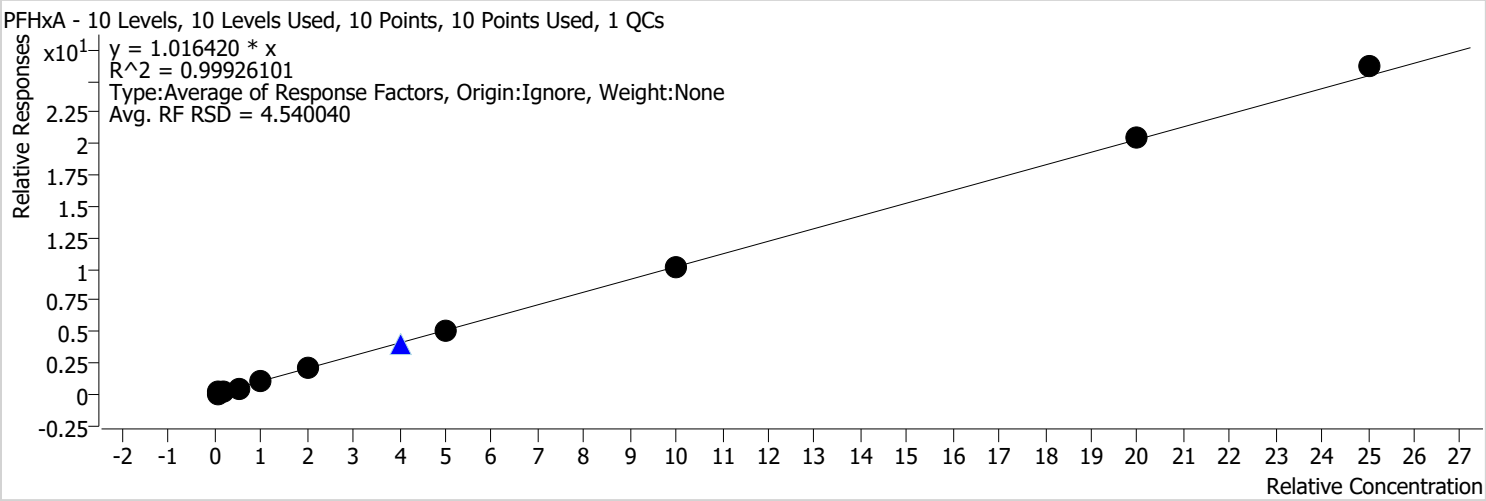
Quant Batch Version	10.2	**Quant Report Version**	10.2

PFHxA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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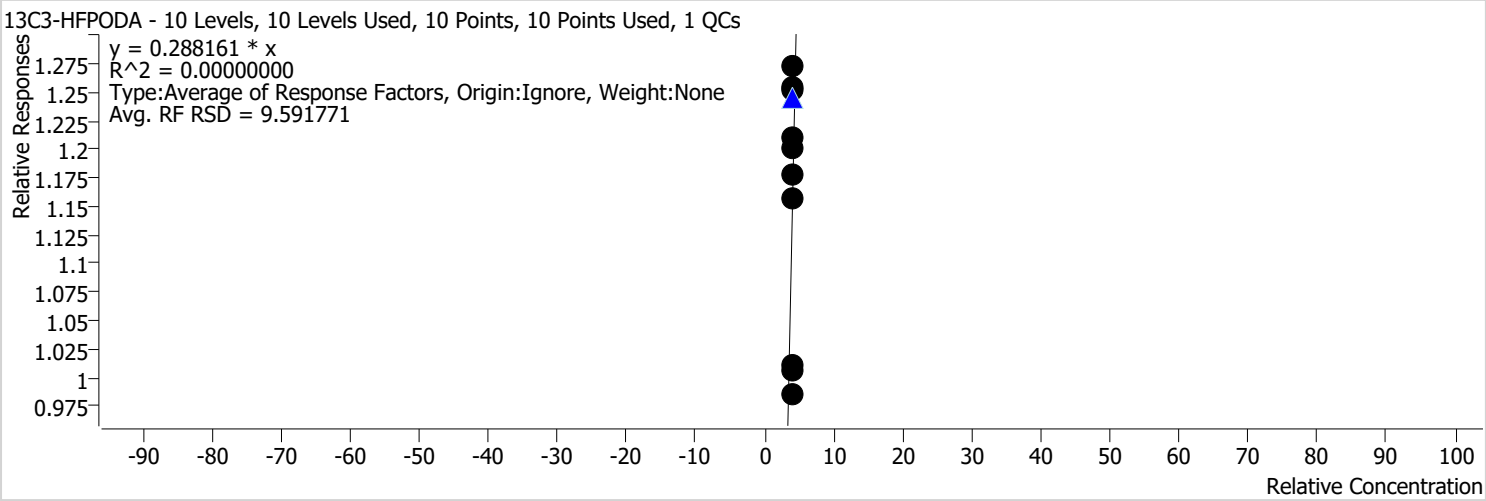
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	41933	0.5000	1.1286
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	108457	1.2500	0.9632
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	237902	2.5000	0.9803
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	472633	5.0000	1.0065
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV	x	870561	10.0000	0.9995
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	1183847	12.5000	0.9967
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	2266749	25.0000	1.0185
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	4379423	50.0000	1.0294
R:\Data\MAY2024\050824_B\CALA_1633_050824.d	Calibration	10	x	5427767	62.5000	1.0452

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:49 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/9/2024 9:16 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

13C3-HFPODA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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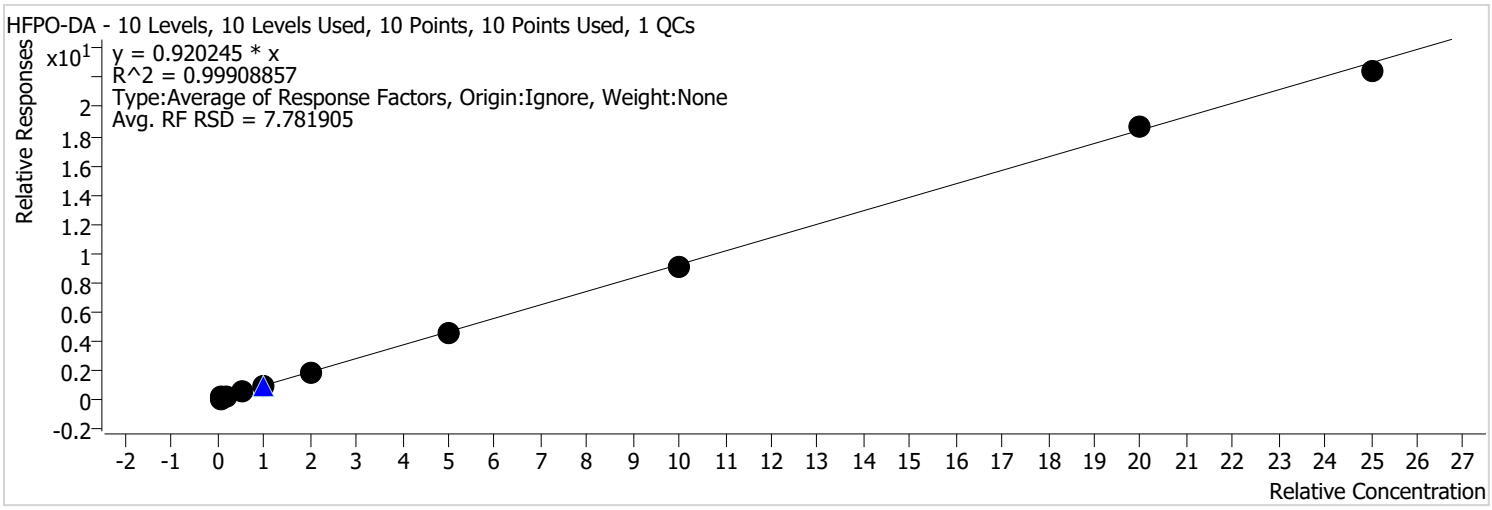
R:\Data\MAY2024\050824_B\CAL2_1633_050824.d	Calibration	2	x	252154	10.0000	0.2944
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	217006	10.0000	0.2464
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	262532	10.0000	0.3023
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	287101	10.0000	0.3180
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	273257	10.0000	0.3002
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	268431	10.0000	0.3132
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	244487	10.0000	0.2893
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	206136	10.0000	0.2526
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV	x	267288	10.0000	0.3113

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:49 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/9/2024 9:16 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

HFPO-DA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	47108	2.0000	1.0854
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	120147	5.0000	0.9153
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	240047	10.0000	0.8361
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R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	1211682	50.0000	0.9028
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	2191174	100.0000	0.8962
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	3860580	200.0000	0.9364
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Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:49 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/9/2024 9:16 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

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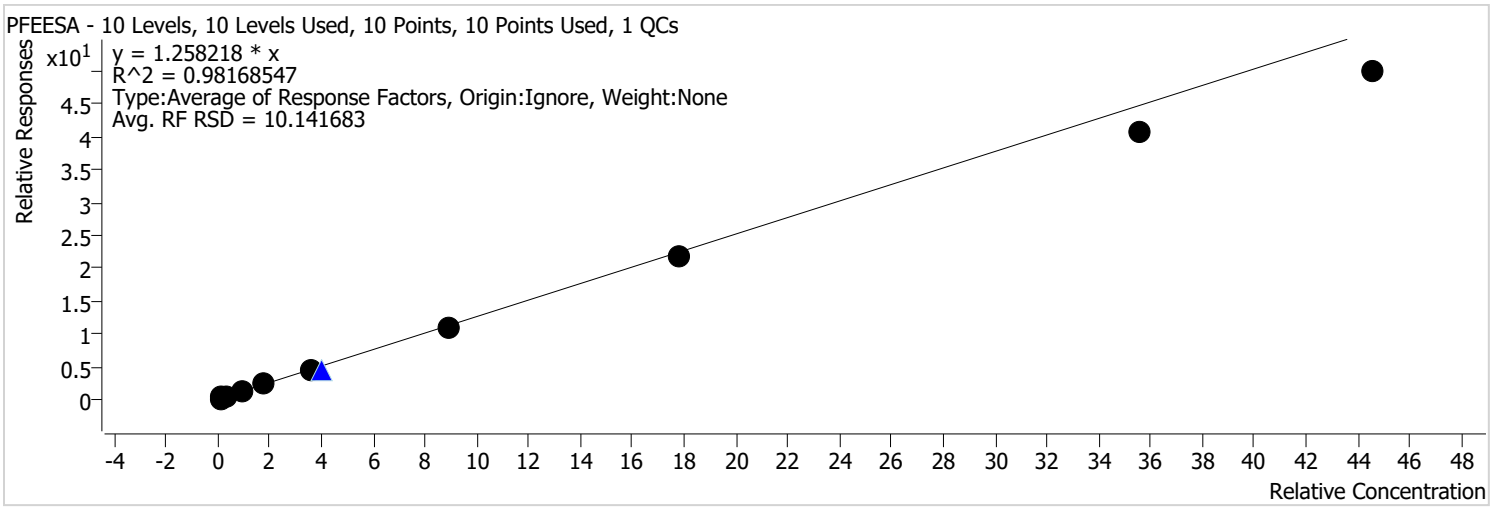

Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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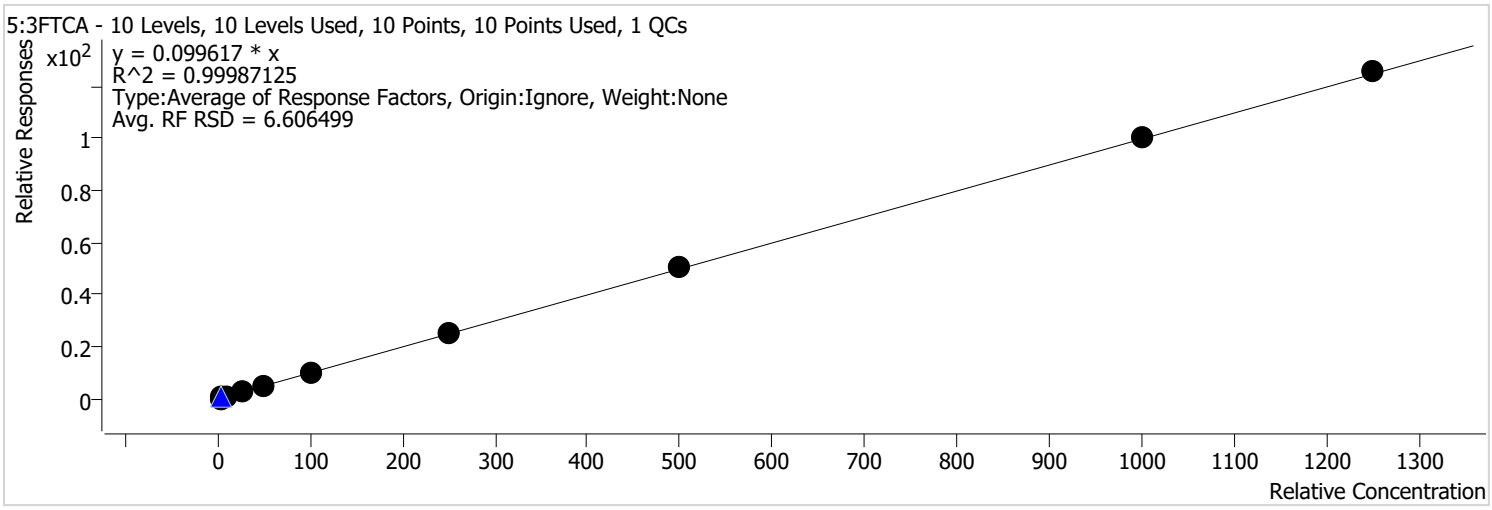
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	103130	0.8900	1.5593
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	252280	2.2250	1.2587
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	537543	4.4500	1.2443
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	1019782	8.9000	1.2201
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV	x	991007	10.0000	1.1377
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	2572872	22.2500	1.2170
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	4859958	44.5000	1.2268
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	8643965	89.0000	1.1415
R:\Data\MAY2024\050824_B\CALA_1633_050824.d	Calibration	10	x	10356665	111.2500	1.1204

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:49 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/9/2024 9:16 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

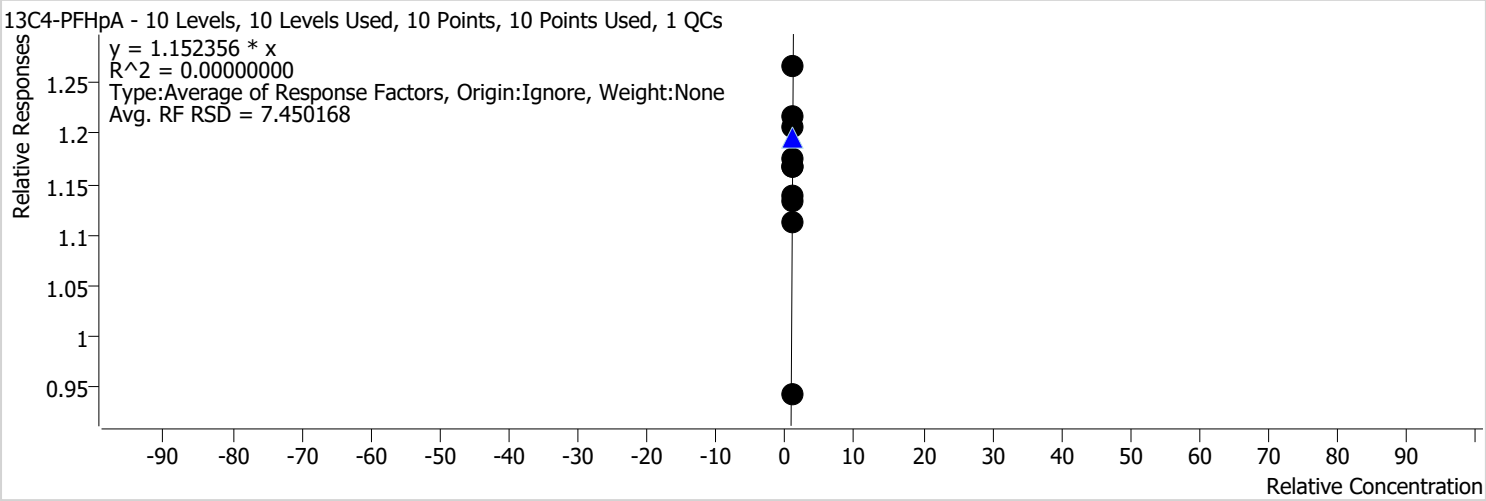
5:3FTCA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
R:\Data\MAY2024\050824_B\CAL1_1633_050824.d	Calibration	1	x	39462	5.0000	0.0898
R:\Data\MAY2024\050824_B\CAL2_1633_050824.d	Calibration	2	x	83990	10.0000	0.0960
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV	x	81346	10.0000	0.0934
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	214495	25.0000	0.1155
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	540071	62.5000	0.0959
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	1169980	125.0000	0.0964
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	2356989	250.0000	0.1004
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	5946751	625.0000	0.1001
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	11267695	1250.0000	0.1013
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	21362776	2500.0000	0.1004
R:\Data\MAY2024\050824_B\CALA_1633_050824.d	Calibration	10	x	26033618	3120.0000	0.1004

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:49 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/9/2024 9:16 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

13C4-PFHpA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
R:\Data\MAY2024\050824_B\CAL1_1633_050824.d	Calibration	1	x	249788	2.5000	1.1751
R:\Data\MAY2024\050824_B\CALA_1633_050824.d	Calibration	10	x	223532	2.5000	1.1338
R:\Data\MAY2024\050824_B\CAL2_1633_050824.d	Calibration	2	x	243826	2.5000	1.1385
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	207767	2.5000	0.9438
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	253399	2.5000	1.1672
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	274507	2.5000	1.2163
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	265603	2.5000	1.1671
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	271135	2.5000	1.2653
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	254675	2.5000	1.2053
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	226702	2.5000	1.1111
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV	x	256775	2.5000	1.1963

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:49 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/9/2024 9:16 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

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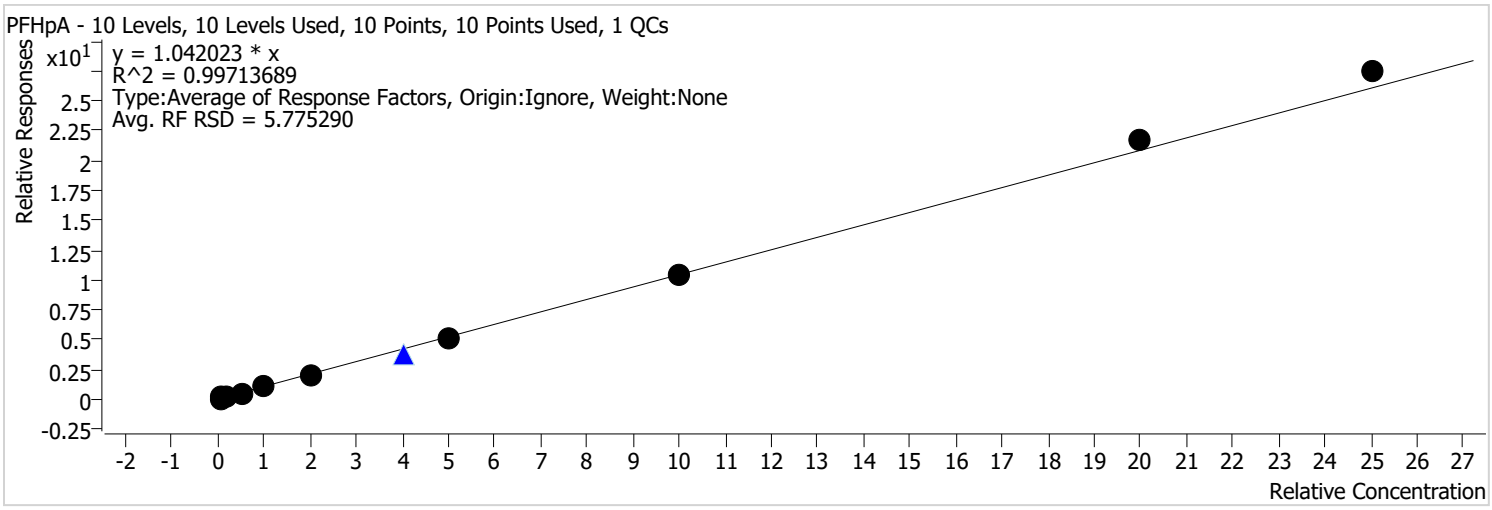

Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
R:\Data\MAY2024\050824_B\CAL1_1633_050824.d	Calibration	1	x	10216	0.1000	1.0225
R:\Data\MAY2024\050824_B\CAL2_1633_050824.d	Calibration	2	x	19279	0.2000	0.9884
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	48976	0.5000	1.1786
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	124759	1.2500	0.9847
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	277508	2.5000	1.0109
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	538614	5.0000	1.0139
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV	x	967588	10.0000	0.9421
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	1372342	12.5000	1.0123
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	2623043	25.0000	1.0300
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	4907818	50.0000	1.0824
R:\Data\MAY2024\050824_B\CALA_1633_050824.d	Calibration	10	x	6127520	62.5000	1.0965

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:49 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/9/2024 9:16 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

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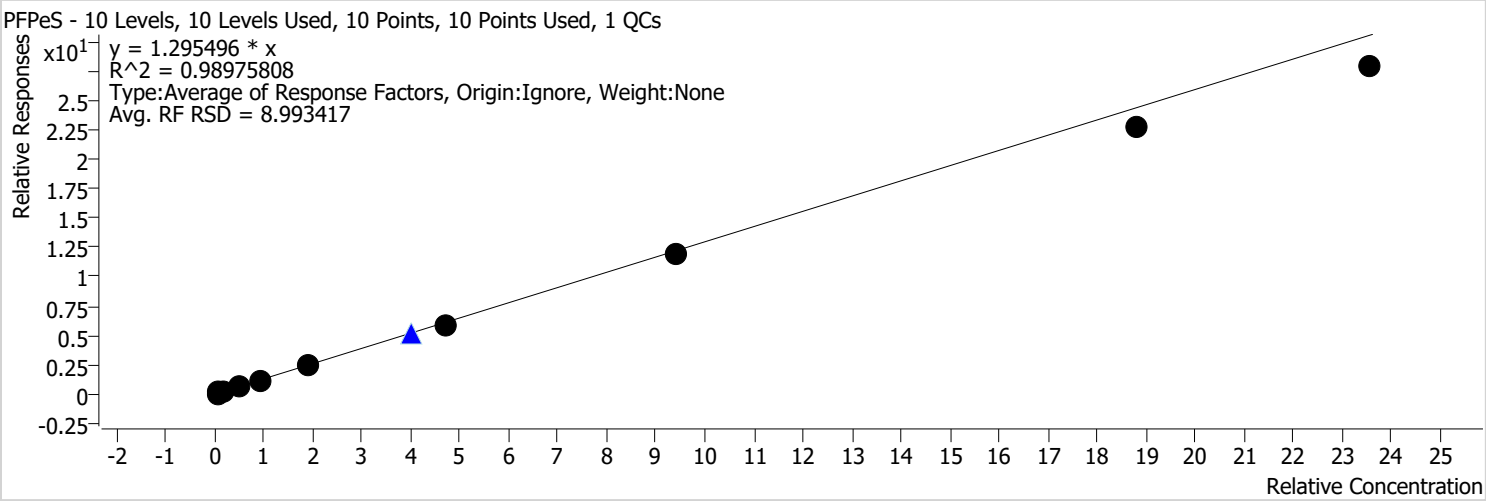

Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
R:\Data\MAY2024\050824_B\CAL1_1633_050824.d	Calibration	1	x	2969	0.0941	1.4420
R:\Data\MAY2024\050824_B\CAL2_1633_050824.d	Calibration	2	x	4789	0.1882	1.2295
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	12858	0.4705	1.5567
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	31468	1.1760	1.2255
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	70939	2.3530	1.2846
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	139580	4.7050	1.3112
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV	x	278601	10.0000	1.2943
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	339267	11.7630	1.2553
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	638384	23.5250	1.2551
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	1148033	47.0500	1.2123
R:\Data\MAY2024\050824_B\CALA_1633_050824.d	Calibration	10	x	1369106	58.8130	1.1828

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:49 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/9/2024 9:16 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

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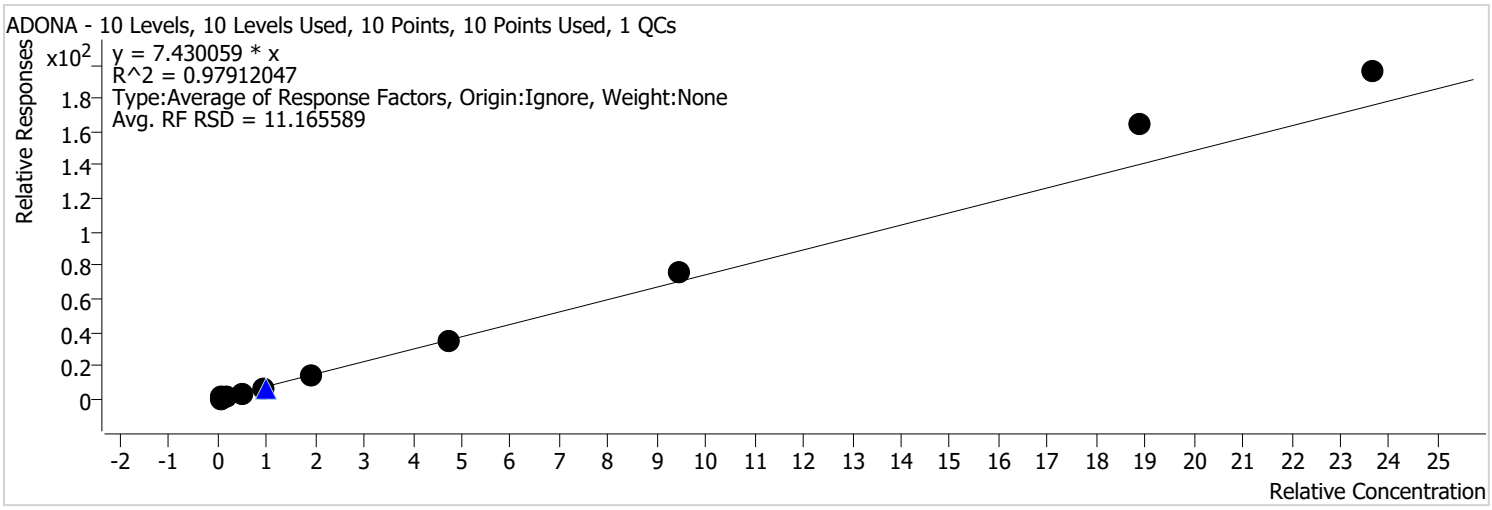

Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
R:\Data\MAY2024\050824_B\CAL1_1633_050824.d	Calibration	1	x	63482	0.3780	6.3003
R:\Data\MAY2024\050824_B\CAL2_1633_050824.d	Calibration	2	x	138920	0.7560	7.2875
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	333653	1.8900	8.1351
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	859076	4.7250	6.9254
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	1694172	9.4500	6.2444
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV	x	1678782	10.0000	6.2808
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	3654380	18.9000	7.0759
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	9360372	47.2500	7.3800
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	18440993	94.5000	7.9817
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	33844303	189.0000	8.6870
R:\Data\MAY2024\050824_B\CALA_1633_050824.d	Calibration	10	x	38852008	236.2500	8.2832

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:49 AM	**Reporter Name**	CONTEST\QQQ5
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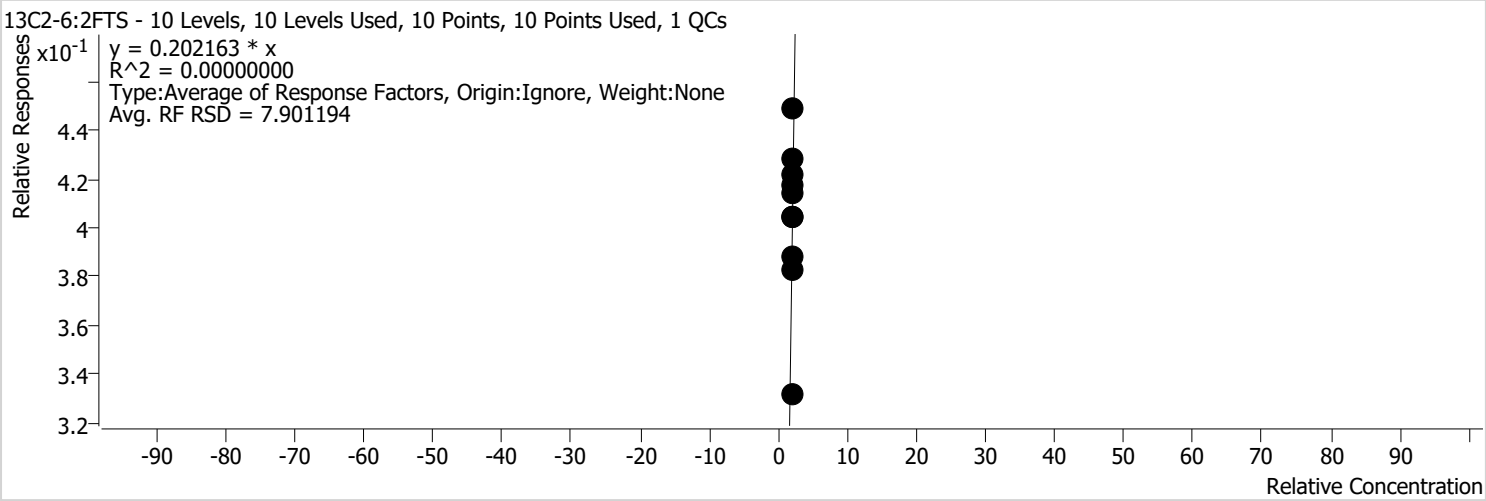
Quant Batch Version	10.2	**Quant Report Version**	10.2

13C2-6:2FTS



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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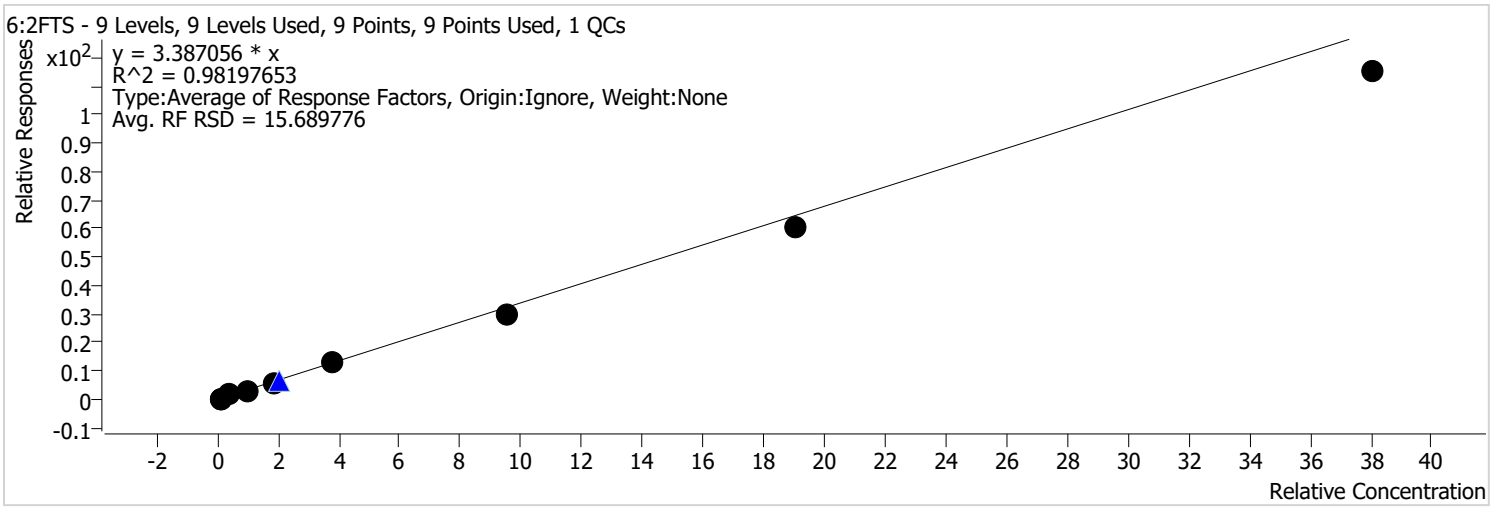
R:\Data\MAY2024\050824_B\CALA_1633_050824.d	Calibration	10	x	19381	5.0000	0.2023
R:\Data\MAY2024\050824_B\CAL2_1633_050824.d	Calibration	2	x	20158	5.0000	0.1913
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	17703	5.0000	0.1660
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	22315	5.0000	0.2142
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	24988	5.0000	0.2247
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	22452	5.0000	0.2073
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	22455	5.0000	0.2109
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	20189	5.0000	0.1939
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	19120	5.0000	0.2022
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV		25050	5.0000	0.2330

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:49 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/9/2024 9:16 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

6:2FTS



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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R:\Data\MAY2024\050824_B\CAL2_1633_050824.d	Calibration	2	x	9547	0.7600	3.1157
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	26363	1.9000	3.9190
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	64866	4.7500	3.0598
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	147028	9.5000	3.0968
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV	x	156219	10.0000	3.1182
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	287356	19.0000	3.3681
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	671709	47.5000	3.1487
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	1210372	95.0000	3.1553
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	2195465	190.0000	3.0217

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:49 AM	**Reporter Name**	CONTEST\QQQ5
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Quant Batch Version	10.2	**Quant Report Version**	10.2

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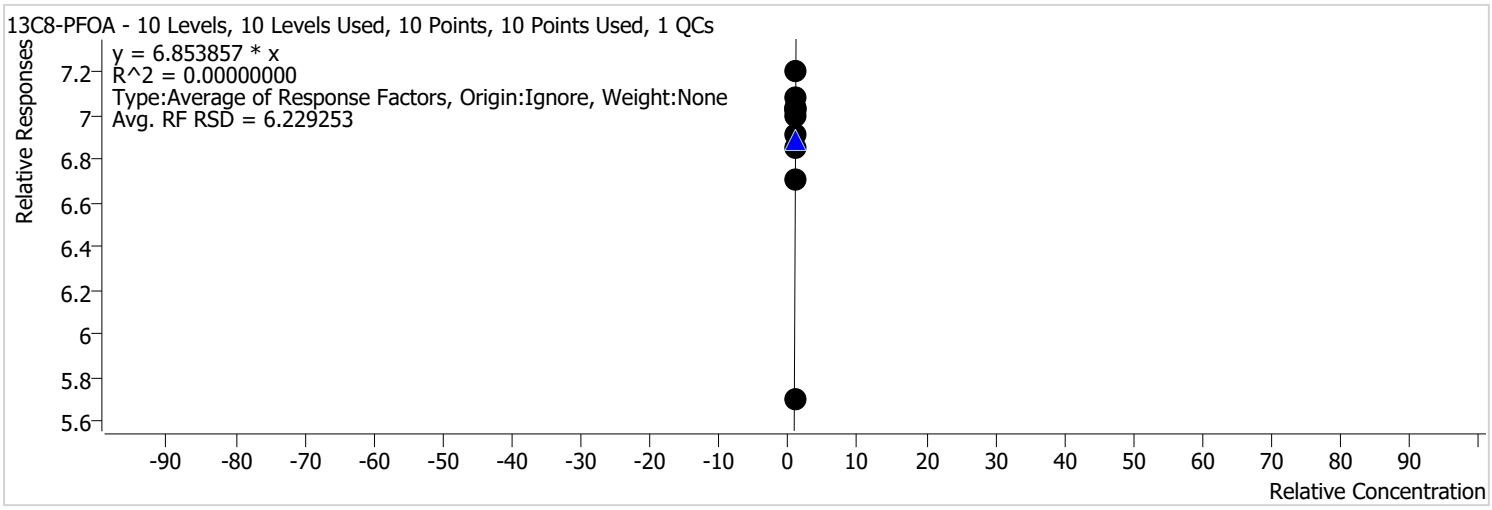

Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
R:\Data\MAY2024\050824_B\CAL1_1633_050824.d	Calibration	1	x	230714	2.5000	6.7028
R:\Data\MAY2024\050824_B\CALA_1633_050824.d	Calibration	10	x	215291	2.5000	7.0271
R:\Data\MAY2024\050824_B\CAL2_1633_050824.d	Calibration	2	x	228324	2.5000	6.9136
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	193164	2.5000	5.7014
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	235365	2.5000	6.8511
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	259437	2.5000	7.1994
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	251311	2.5000	6.9949
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	248066	2.5000	7.0861
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	236116	2.5000	7.0284
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	216951	2.5000	7.0337
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV	x	238314	2.5000	6.8889

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:49 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/9/2024 9:16 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

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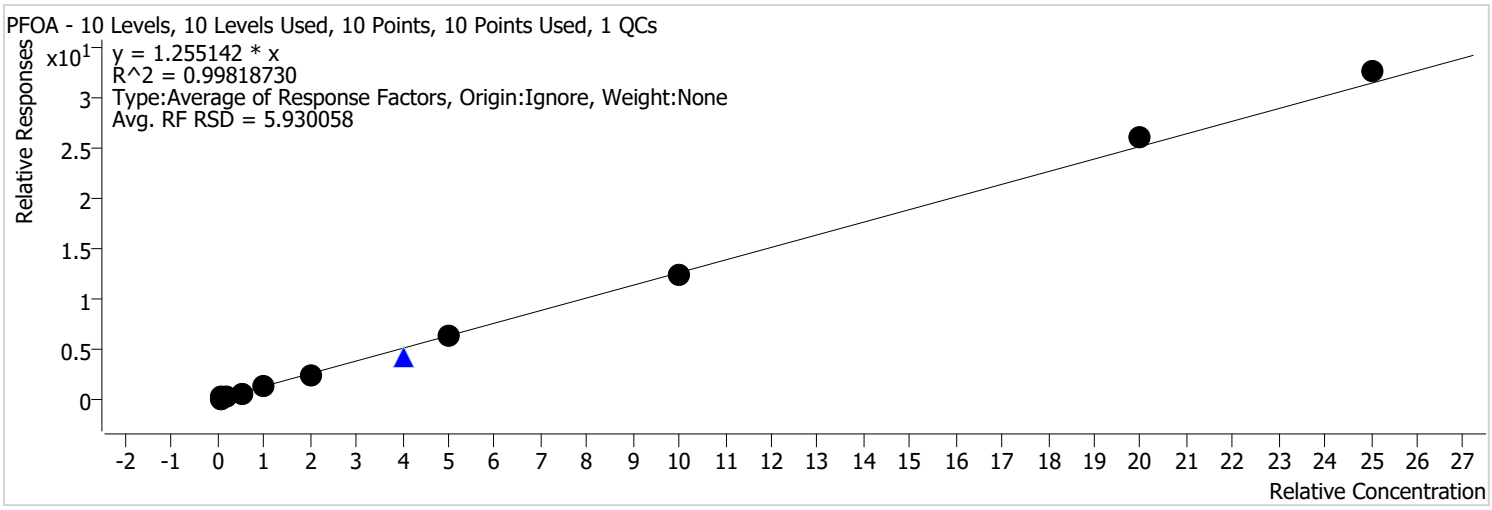

Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
R:\Data\MAY2024\050824_B\CAL1_1633_050824.d	Calibration	1	x	11416	0.1000	1.2371
R:\Data\MAY2024\050824_B\CAL2_1633_050824.d	Calibration	2	x	22547	0.2000	1.2344
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	55359	0.5000	1.4330
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	139517	1.2500	1.1855
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	309372	2.5000	1.1925
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	601886	5.0000	1.1975
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV	x	1024177	10.0000	1.0744
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	1525137	12.5000	1.2296
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	2922016	25.0000	1.2375
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	5657801	50.0000	1.3039
R:\Data\MAY2024\050824_B\CALA_1633_050824.d	Calibration	10	x	6998938	62.5000	1.3004

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:49 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/9/2024 9:16 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

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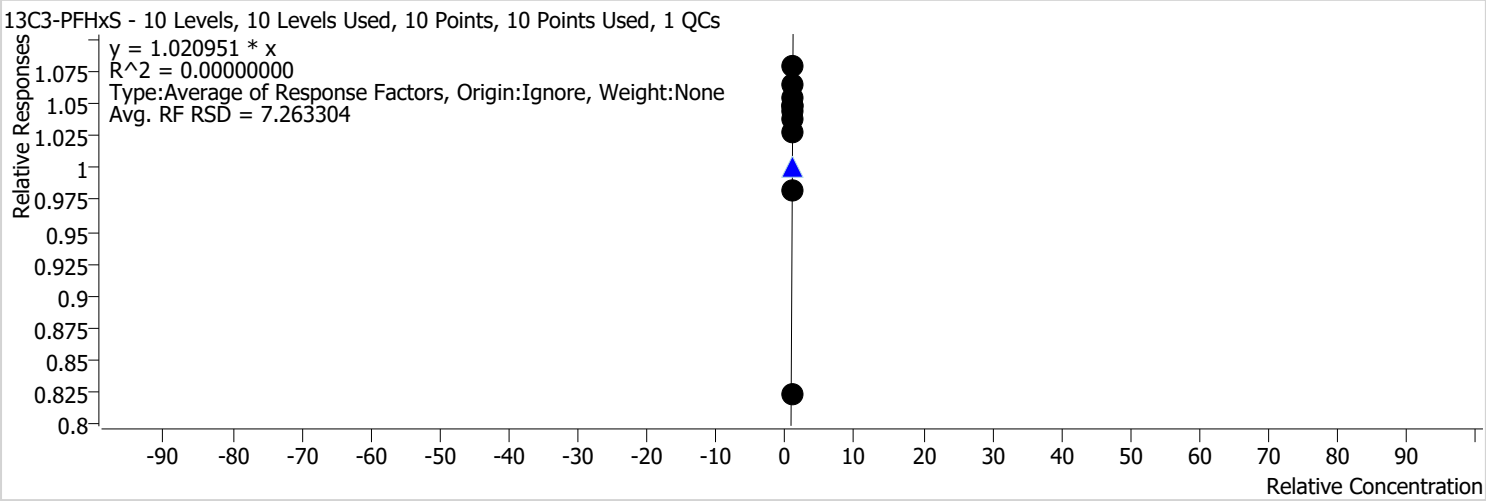

Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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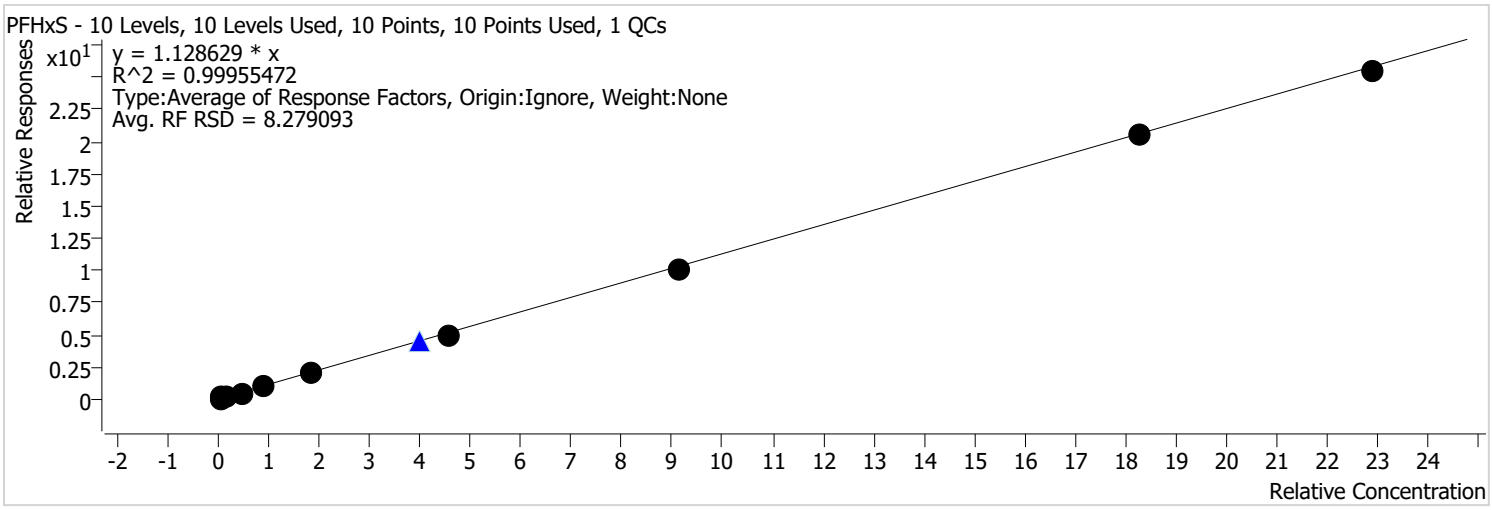
R:\Data\MAY2024\050824_B\CALA_1633_050824.d	Calibration	10	x	49203	2.5000	1.0273
R:\Data\MAY2024\050824_B\CAL2_1633_050824.d	Calibration	2	x	51742	2.5000	0.9820
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	43890	2.5000	0.8230
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	54589	2.5000	1.0481
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	58673	2.5000	1.0551
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	56563	2.5000	1.0447
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	57441	2.5000	1.0791
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	54054	2.5000	1.0381
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	50318	2.5000	1.0645
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV	x	53813	2.5000	1.0012

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:50 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/9/2024 9:16 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

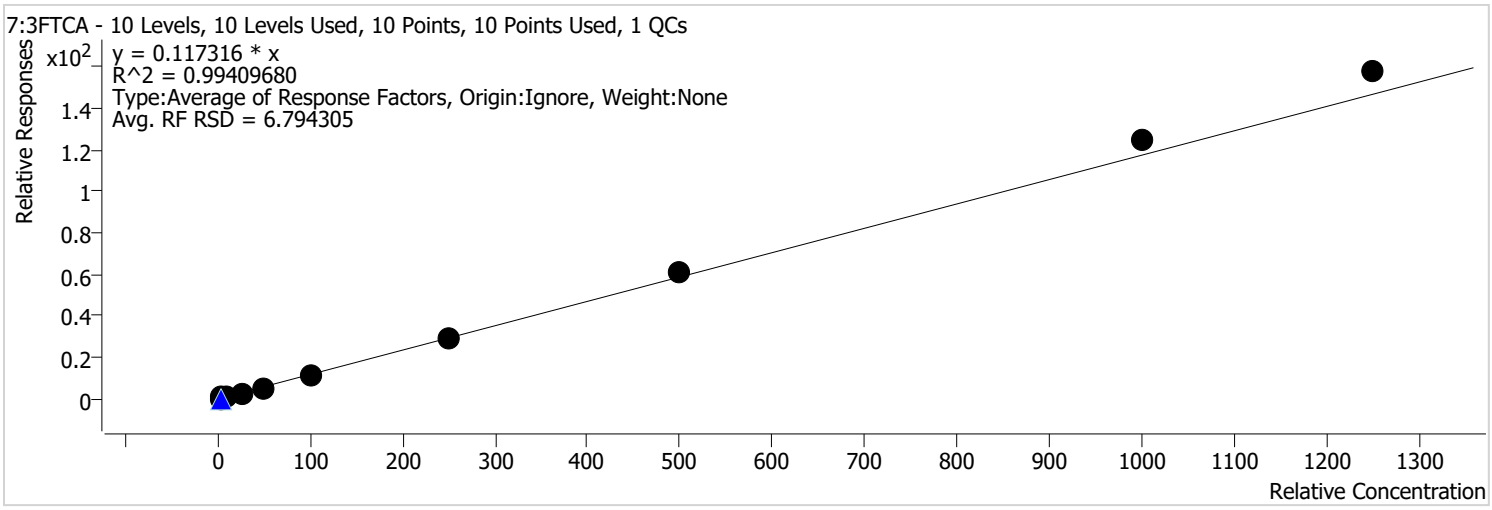
PFHxS



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
R:\Data\MAY2024\050824_B\CAL1_1633_050824.d	Calibration	1	x	2529	0.0914	1.2648
R:\Data\MAY2024\050824_B\CAL2_1633_050824.d	Calibration	2	x	4455	0.1828	1.1775
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	10451	0.4570	1.3027
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	25450	1.1430	1.0197
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	55223	2.2850	1.0298
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	112666	4.5700	1.0896
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV	x	245062	10.0000	1.1385
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	282438	11.4250	1.0759
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	541627	22.8500	1.0963
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	1028534	45.7000	1.1182
R:\Data\MAY2024\050824_B\CALA_1633_050824.d	Calibration	10	x	1250019	57.1250	1.1118

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:50 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/9/2024 9:16 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

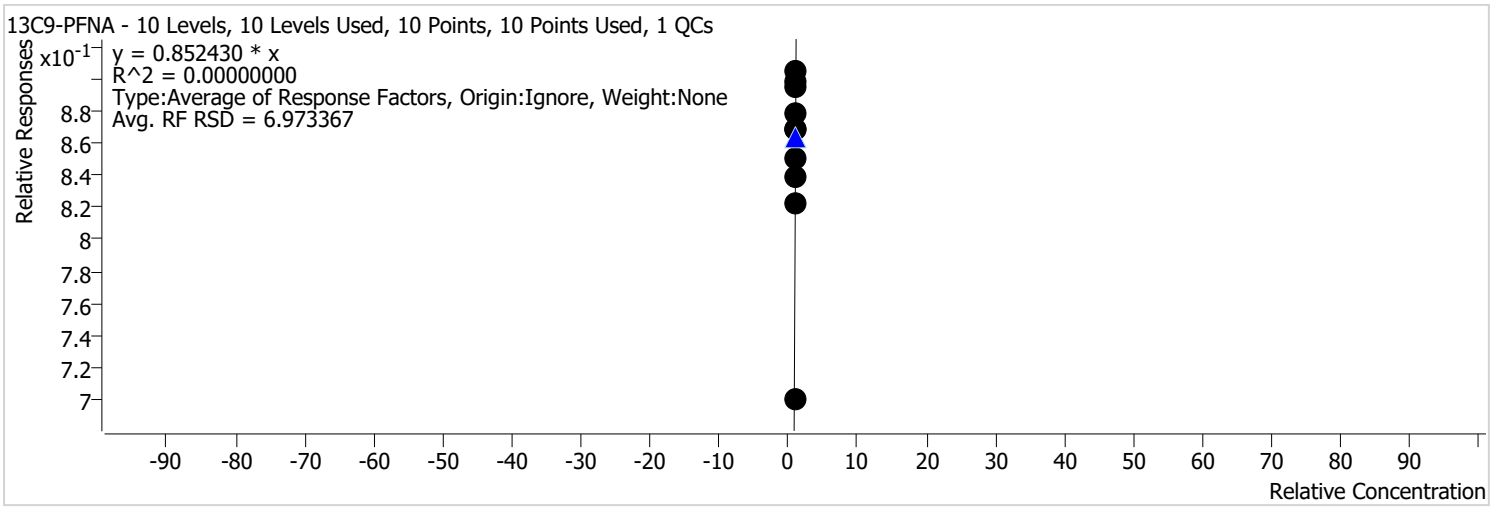
7:3FTCA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
R:\Data\MAY2024\050824_B\CAL1_1633_050824.d	Calibration	1	x	47101	5.0000	0.1072
R:\Data\MAY2024\050824_B\CAL2_1633_050824.d	Calibration	2	x	98096	10.0000	0.1121
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV	x	89323	10.0000	0.1025
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	242454	25.0000	0.1305
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	616835	62.5000	0.1096
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	1333725	125.0000	0.1099
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	2754744	250.0000	0.1173
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	6803227	625.0000	0.1146
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	13544134	1250.0000	0.1217
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	26426959	2500.0000	0.1242
R:\Data\MAY2024\050824_B\CALA_1633_050824.d	Calibration	10	x	32693211	3120.0000	0.1261

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:50 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/9/2024 9:16 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

13C9-PFNA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
R:\Data\MAY2024\050824_B\CAL1_1633_050824.d	Calibration	1	x	137789	1.2500	0.8504
R:\Data\MAY2024\050824_B\CALA_1633_050824.d	Calibration	10	x	122368	1.2500	0.8790
R:\Data\MAY2024\050824_B\CAL2_1633_050824.d	Calibration	2	x	134613	1.2500	0.8215
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	114387	1.2500	0.7009
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	139489	1.2500	0.8393
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	153592	1.2500	0.8946
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	147330	1.2500	0.8686
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	147217	1.2500	0.9040
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	138219	1.2500	0.8976
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	123291	1.2500	0.8684
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV	x	141328	1.2500	0.8632

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:50 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/9/2024 9:16 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

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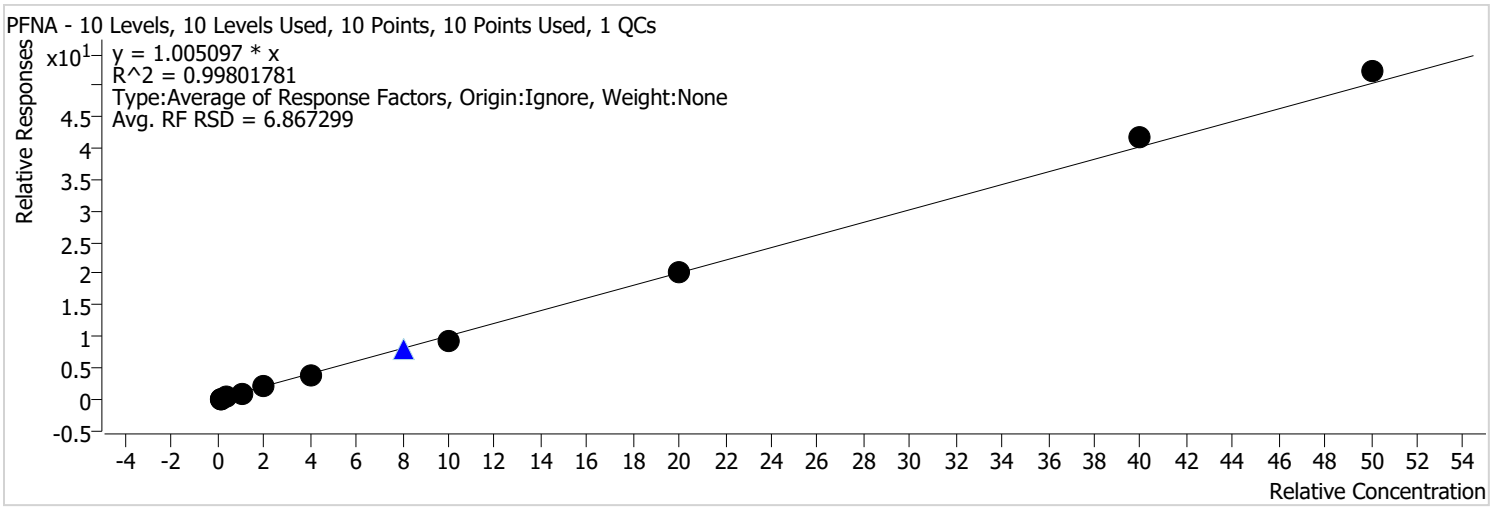

Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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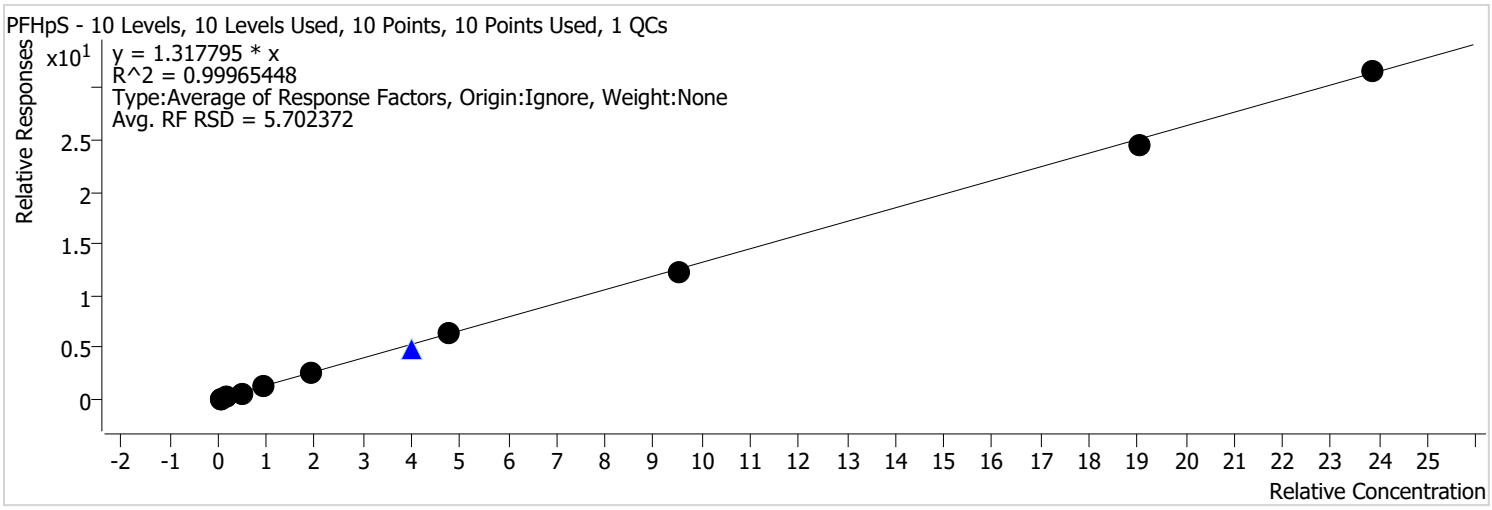
R:\Data\MAY2024\050824_B\CAL2_1633_050824.d	Calibration	2	x	20149	0.2000	0.9355
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	50896	0.5000	1.1124
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	132207	1.2500	0.9478
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	289748	2.5000	0.9432
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	576605	5.0000	0.9784
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV	x	1116924	10.0000	0.9879
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	1376351	12.5000	0.9349
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	2771925	25.0000	1.0027
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	5150380	50.0000	1.0444
R:\Data\MAY2024\050824_B\CALA_1633_050824.d	Calibration	10	x	6377628	62.5000	1.0424

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:50 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/9/2024 9:16 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

PFHpS



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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R:\Data\MAY2024\050824_B\CAL2_1633_050824.d	Calibration	2	x	3742	0.1906	1.2411
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	9422	0.4765	1.4906
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	24676	1.1910	1.2662
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	51898	2.3830	1.2786
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	104463	4.7650	1.2773
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV	x	202666	10.0000	1.2143
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	258331	11.9130	1.3163
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	481798	23.8250	1.2892
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	881231	47.6500	1.2893
R:\Data\MAY2024\050824_B\CALA_1633_050824.d	Calibration	10	x	1061959	59.5630	1.3245

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:50 AM	**Reporter Name**	CONTEST\QQQ5
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Quant Batch Version	10.2	**Quant Report Version**	10.2

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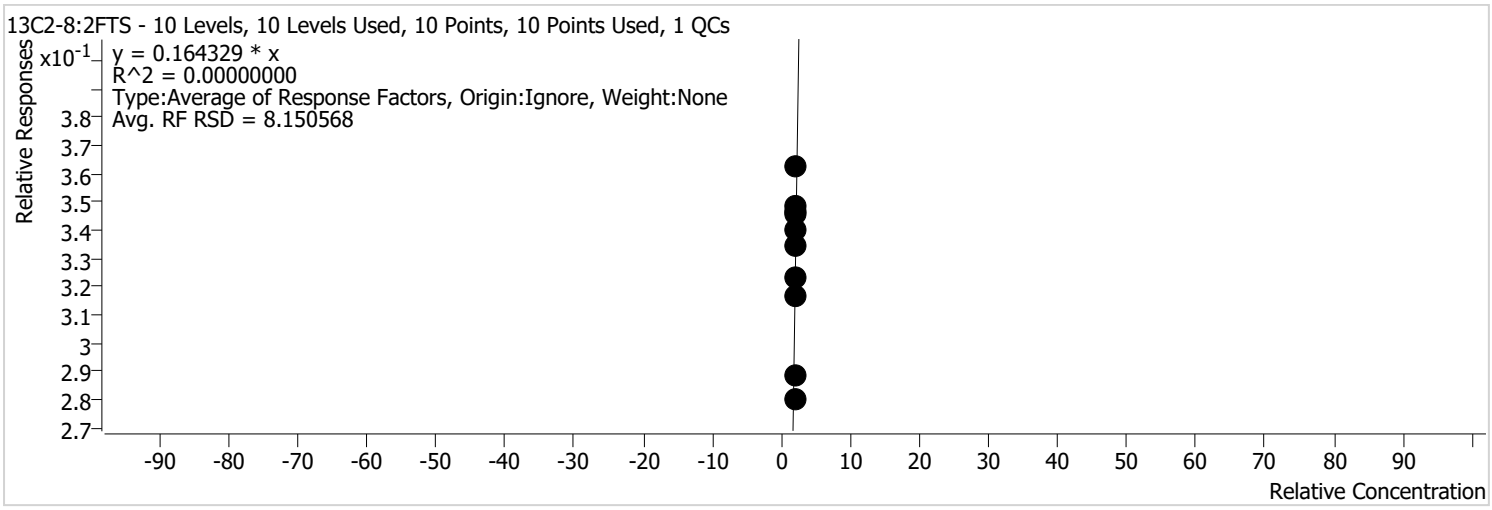

Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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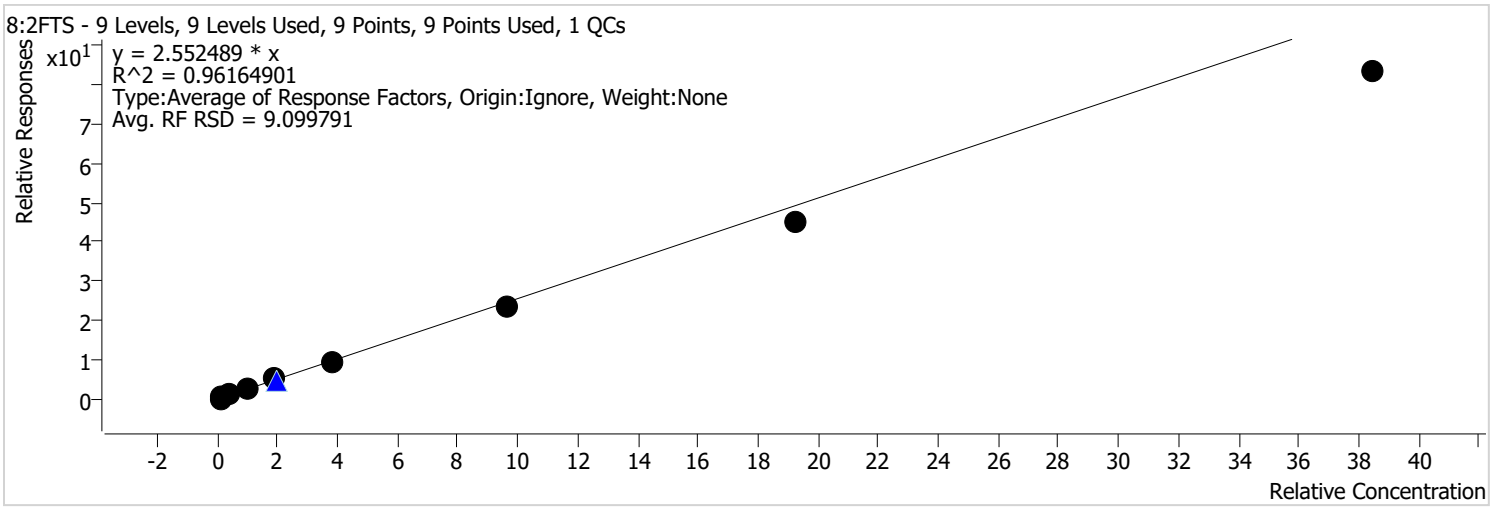
R:\Data\MAY2024\050824_B\CALA_1633_050824.d	Calibration	10	x	16714	5.0000	0.1745
R:\Data\MAY2024\050824_B\CAL2_1633_050824.d	Calibration	2	x	15200	5.0000	0.1442
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	14951	5.0000	0.1402
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	16816	5.0000	0.1614
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	19257	5.0000	0.1731
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	18703	5.0000	0.1727
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	18102	5.0000	0.1700
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	17394	5.0000	0.1670
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	17157	5.0000	0.1815
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV		21290	5.0000	0.1981

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:50 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/9/2024 9:16 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

8:2FTS



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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R:\Data\MAY2024\050824_B\CAL2_1633_050824.d	Calibration	2	x	6459	0.7680	2.7666
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	16935	1.9200	2.9497
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	41244	4.8000	2.5549
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	96633	9.6000	2.6136
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV	x	105775	10.0000	2.4841
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	181627	19.2000	2.5289
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	421313	48.0000	2.4244
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	779557	96.0000	2.3343
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	1424507	192.0000	2.1621

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:50 AM	**Reporter Name**	CONTEST\QQQ5
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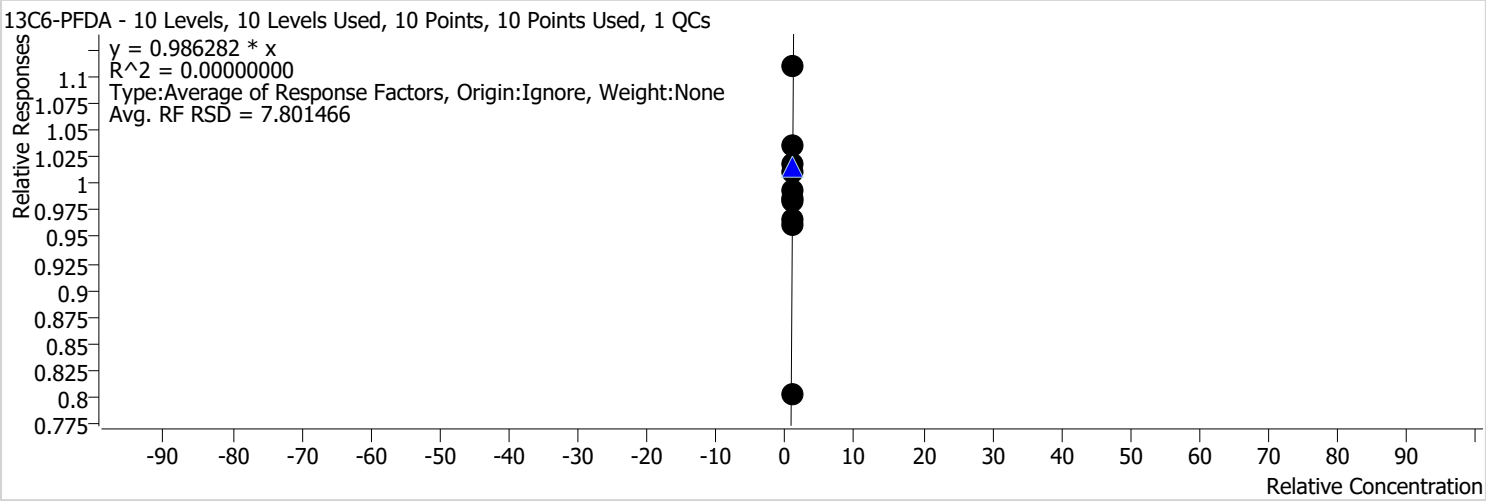
Quant Batch Version	10.2	**Quant Report Version**	10.2

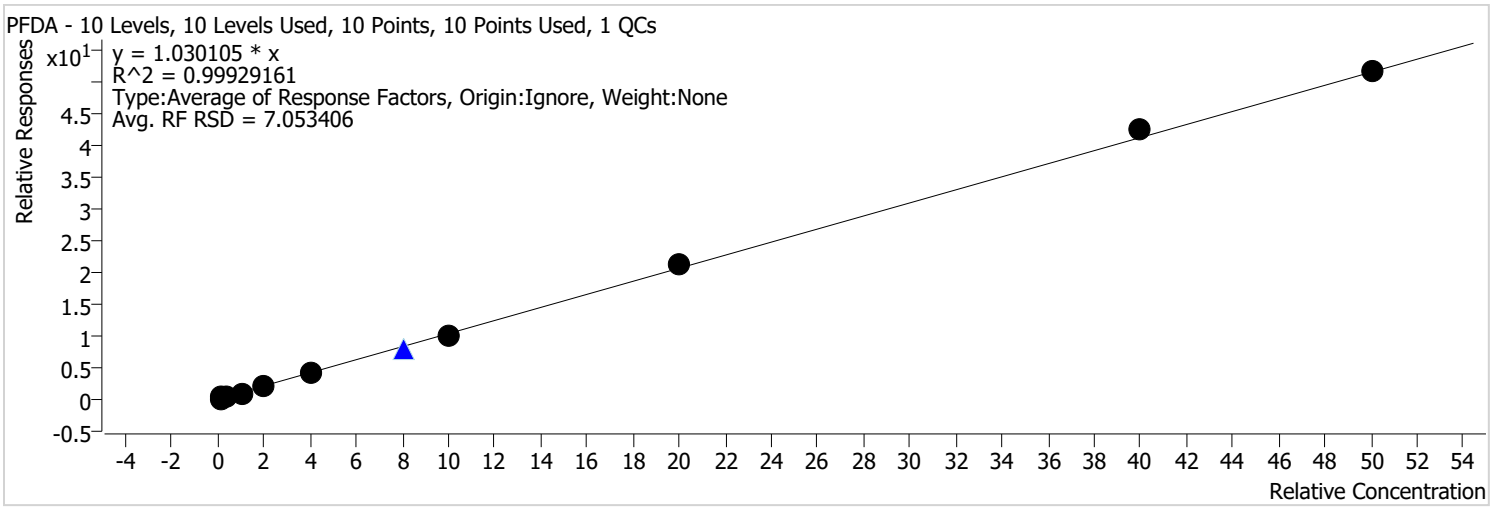
13C6-PFDA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
R:\Data\MAY2024\050824_B\CAL1_1633_050824.d	Calibration	1	x	128447	1.2500	0.9603
R:\Data\MAY2024\050824_B\CALA_1633_050824.d	Calibration	10	x	116560	1.2500	0.9821
R:\Data\MAY2024\050824_B\CAL2_1633_050824.d	Calibration	2	x	131103	1.2500	0.9851
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	110050	1.2500	0.8040
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	136282	1.2500	1.0107
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	142745	1.2500	1.0353
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	142742	1.2500	1.0177
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	142394	1.2500	1.1082
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	128796	1.2500	0.9943
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	117506	1.2500	0.9652
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV	x	129690	1.2500	1.0146

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:50 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/9/2024 9:16 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

PFDA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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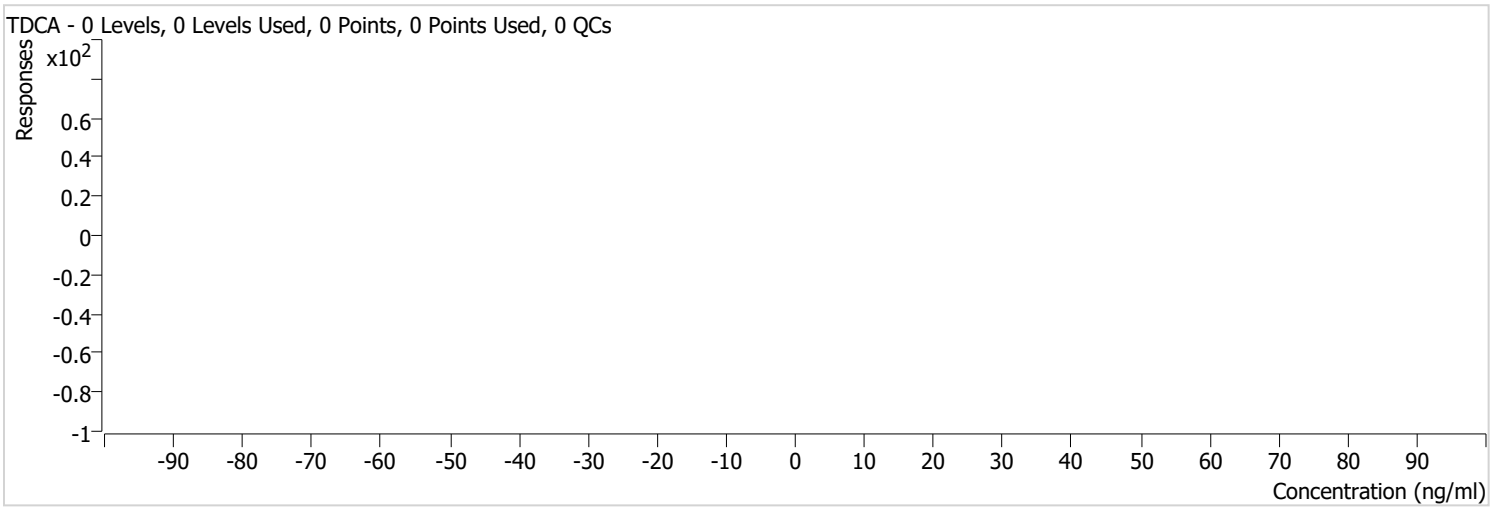
R:\Data\MAY2024\050824_B\CAL2_1633_050824.d	Calibration	2	x	21258	0.2000	1.0134
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	53185	0.5000	1.2082
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	132538	1.2500	0.9725
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	271793	2.5000	0.9520
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	559808	5.0000	0.9805
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV	x	1040478	10.0000	1.0029
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	1404987	12.5000	0.9867
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	2710465	25.0000	1.0522
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	5001970	50.0000	1.0642
R:\Data\MAY2024\050824_B\CALA_1633_050824.d	Calibration	10	x	6008958	62.5000	1.0311

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:50 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/9/2024 9:16 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

TDCA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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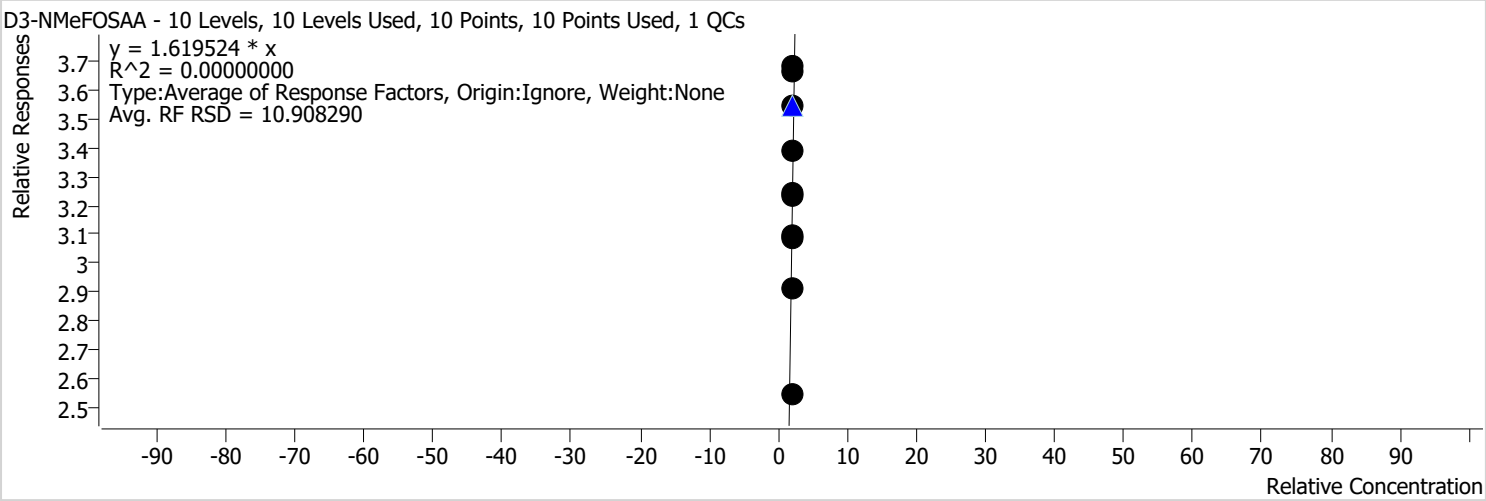
Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:50 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/9/2024 9:16 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

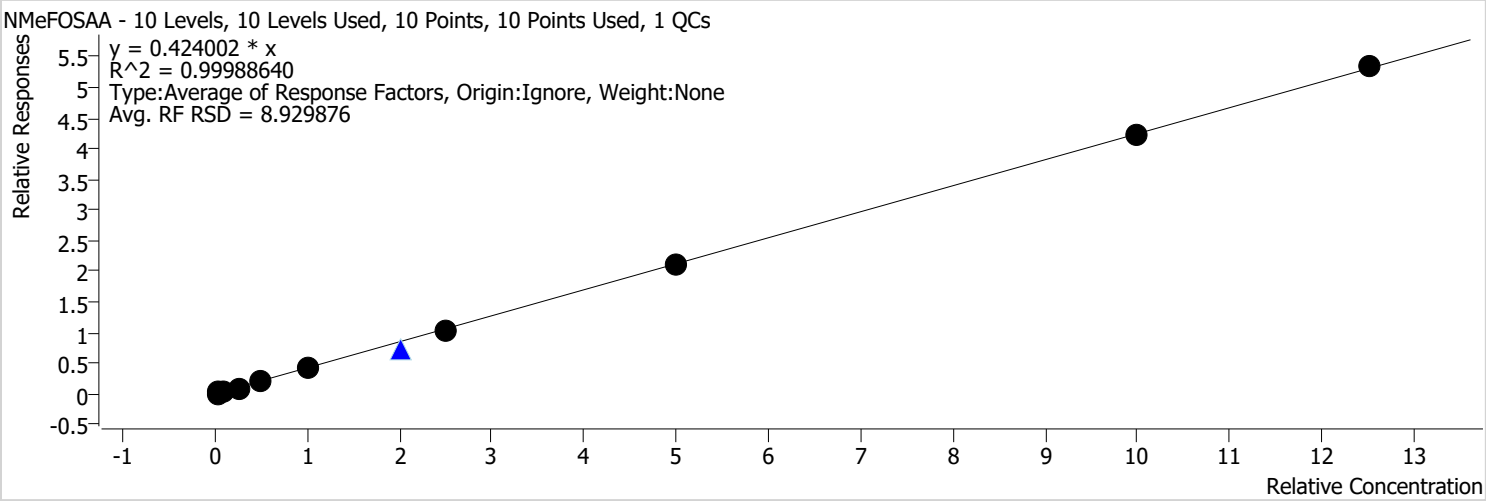
D3-NMeFOSAA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
R:\Data\MAY2024\050824_B\CAL1_1633_050824.d	Calibration	1	x	135451	5.0000	1.5465
R:\Data\MAY2024\050824_B\CALA_1633_050824.d	Calibration	10	x	133763	5.0000	1.8405
R:\Data\MAY2024\050824_B\CAL2_1633_050824.d	Calibration	2	x	128410	5.0000	1.4563
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	115831	5.0000	1.2725
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	141492	5.0000	1.5441
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	154132	5.0000	1.6218
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	150610	5.0000	1.6158
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	155309	5.0000	1.8312
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	143728	5.0000	1.6929
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	135390	5.0000	1.7737
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV	x	157924	5.0000	1.7735

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:50 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/9/2024 9:16 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

NMeFOSAA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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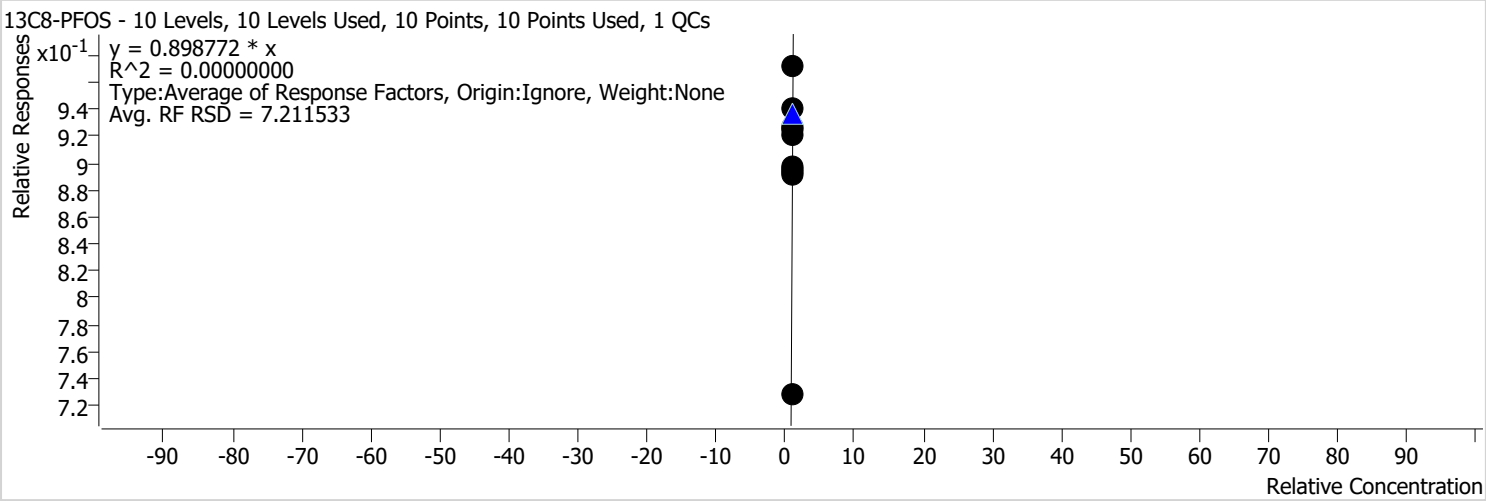
R:\Data\MAY2024\050824_B\CAL2_1633_050824.d	Calibration	2	x	2410	0.2000	0.4692
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	5876	0.5000	0.5073
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	13408	1.2500	0.3790
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	31574	2.5000	0.4097
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	61481	5.0000	0.4082
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV	x	117125	10.0000	0.3708
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	157704	12.5000	0.4062
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	302857	25.0000	0.4214
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	571369	50.0000	0.4220
R:\Data\MAY2024\050824_B\CALA_1633_050824.d	Calibration	10	x	712708	62.5000	0.4263

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:50 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/9/2024 9:16 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

13C8-PFOS



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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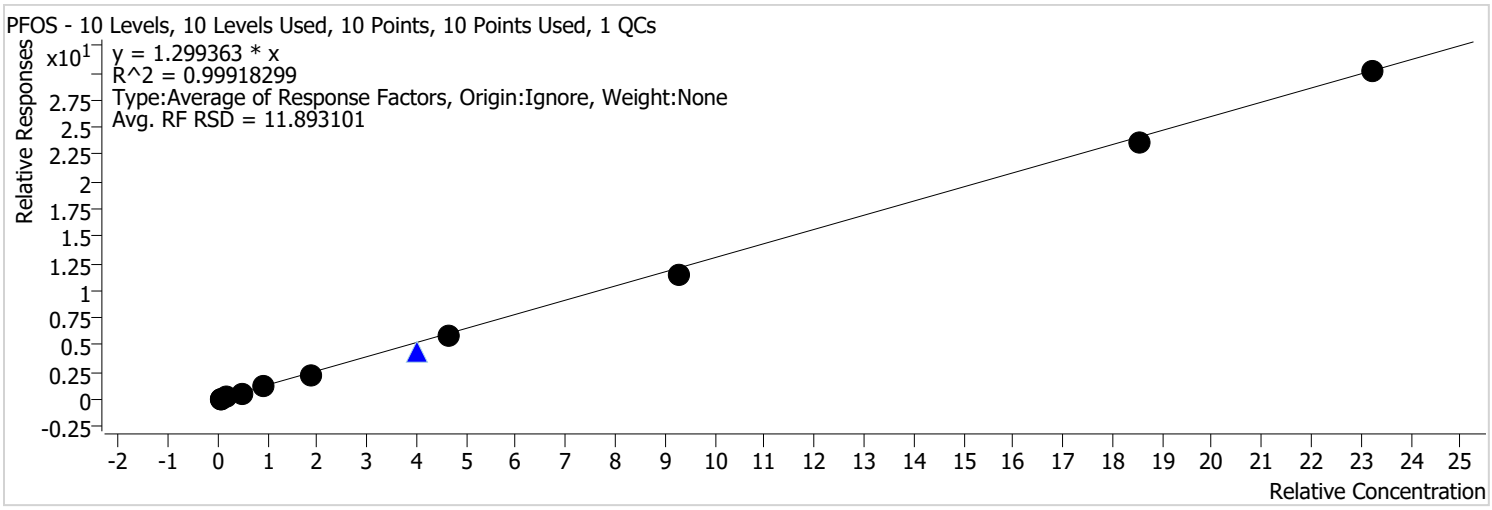
R:\Data\MAY2024\050824_B\CALA_1633_050824.d	Calibration	10	x	33651	2.5000	0.9260
R:\Data\MAY2024\050824_B\CAL2_1633_050824.d	Calibration	2	x	39543	2.5000	0.8969
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	33162	2.5000	0.7286
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	40909	2.5000	0.8929
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	42582	2.5000	0.8961
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	42908	2.5000	0.9207
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	41186	2.5000	0.9712
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	39214	2.5000	0.9237
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	35859	2.5000	0.9395
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV	x	41726	2.5000	0.9372

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:50 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/9/2024 9:16 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

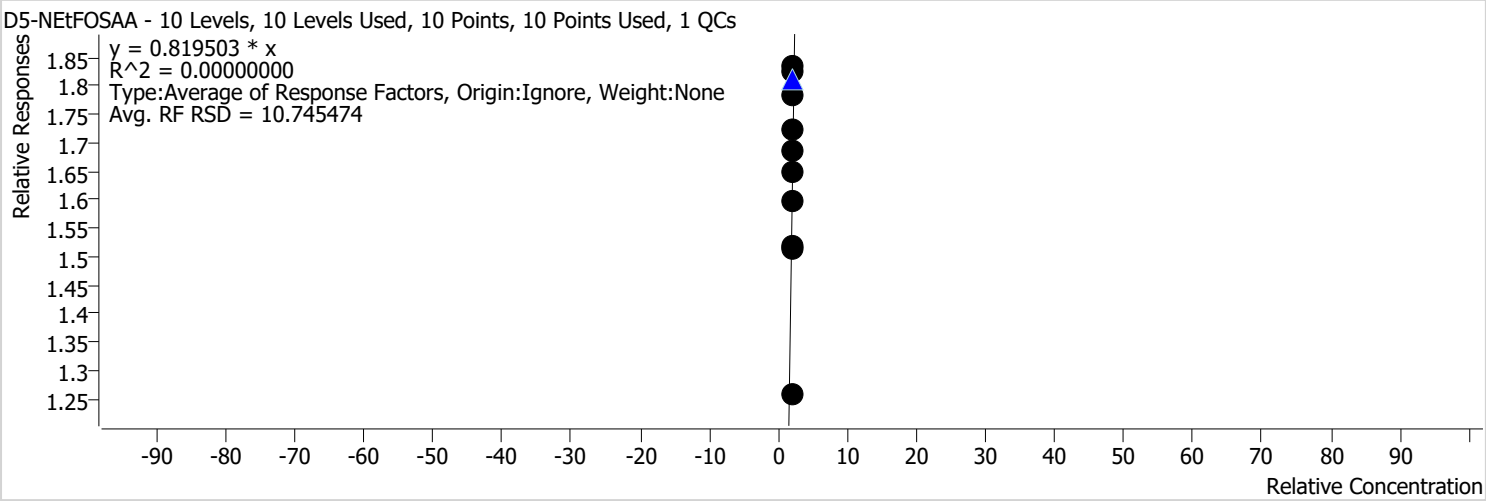
PFOS



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
R:\Data\MAY2024\050824_B\CAL1_1633_050824.d	Calibration	1	x	2394	0.0928	1.6512
R:\Data\MAY2024\050824_B\CAL2_1633_050824.d	Calibration	2	x	3709	0.1856	1.2635
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	9190	0.4640	1.4931
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	21632	1.1600	1.1397
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	47294	2.3200	1.1968
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	96364	4.6400	1.2100
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV	x	180565	10.0000	1.0819
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	236965	11.6000	1.2400
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	451250	23.2000	1.2400
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	841077	46.4000	1.2637
R:\Data\MAY2024\050824_B\CALA_1633_050824.d	Calibration	10	x	1011515	58.0000	1.2956

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:50 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/9/2024 9:16 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

D5-NEtFOSAA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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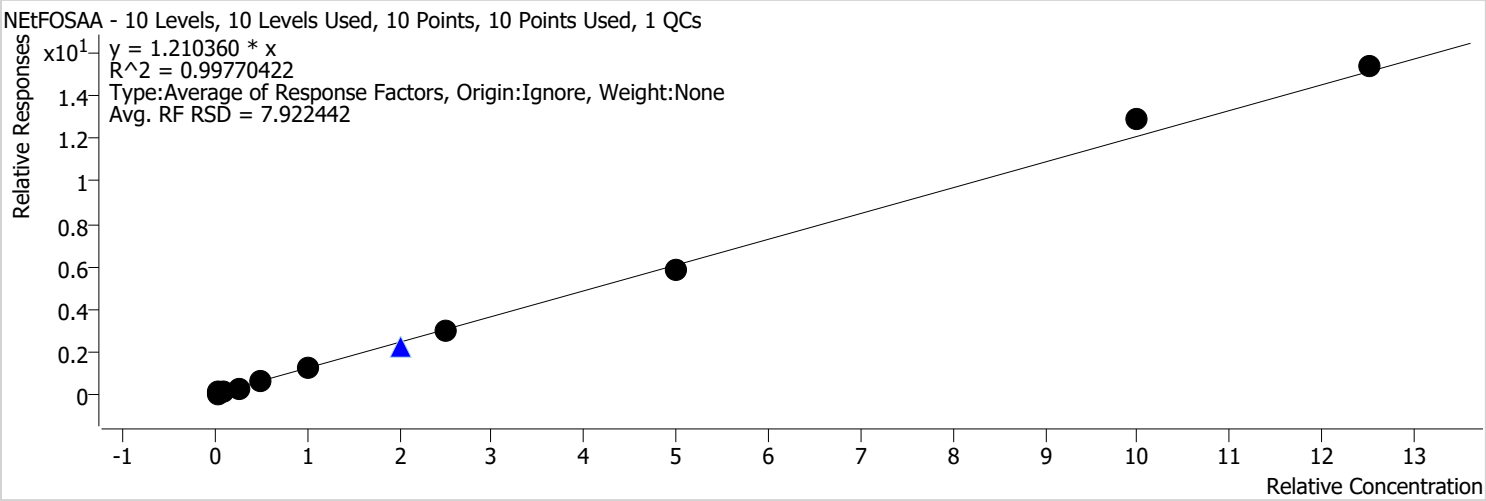
R:\Data\MAY2024\050824_B\CALA_1633_050824.d	Calibration	10	x	66605	5.0000	0.9164
R:\Data\MAY2024\050824_B\CAL2_1633_050824.d	Calibration	2	x	66728	5.0000	0.7568
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	57306	5.0000	0.6295
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	73178	5.0000	0.7986
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	78385	5.0000	0.8248
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	78463	5.0000	0.8418
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	77479	5.0000	0.9135
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	75676	5.0000	0.8913
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	65836	5.0000	0.8625
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV	x	80586	5.0000	0.9050

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:50 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/9/2024 9:16 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

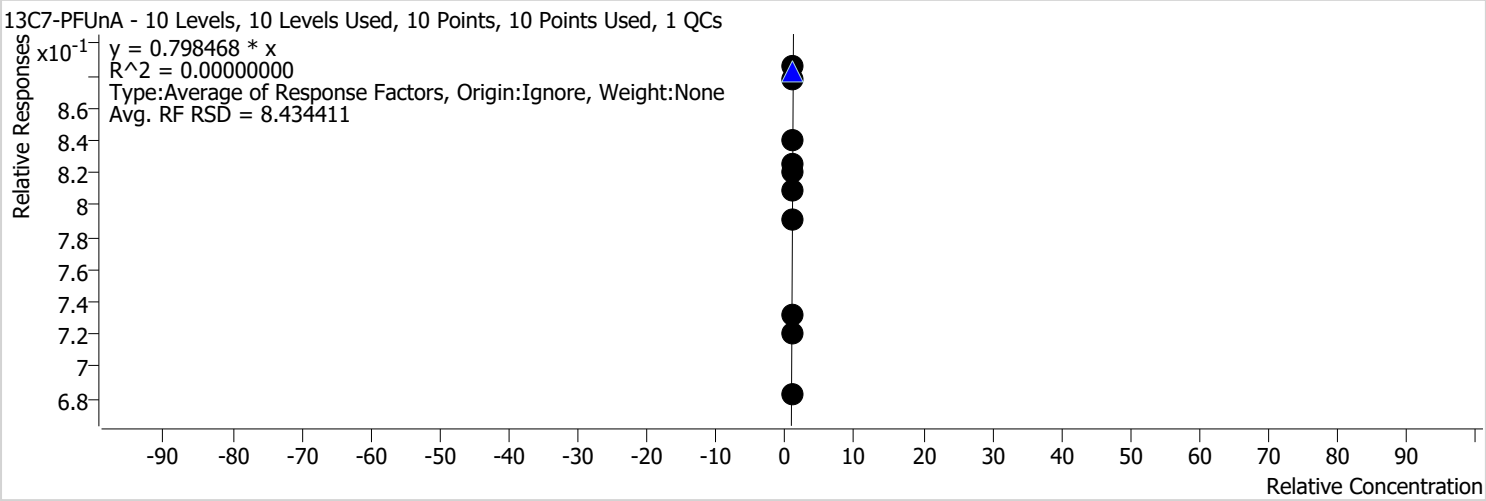
NEtFOSAA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
R:\Data\MAY2024\050824_B\CAL1_1633_050824.d	Calibration	1	x	1423	0.1000	1.0689
R:\Data\MAY2024\050824_B\CAL2_1633_050824.d	Calibration	2	x	3124	0.2000	1.1702
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	8210	0.5000	1.4326
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	21057	1.2500	1.1510
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	46978	2.5000	1.1987
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	93127	5.0000	1.1869
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV	x	175895	10.0000	1.0914
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	233689	12.5000	1.2065
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	443970	25.0000	1.1733
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	846990	50.0000	1.2865
R:\Data\MAY2024\050824_B\CALA_1633_050824.d	Calibration	10	x	1023176	62.5000	1.2289

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:50 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/9/2024 9:16 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

13C7-PFUnA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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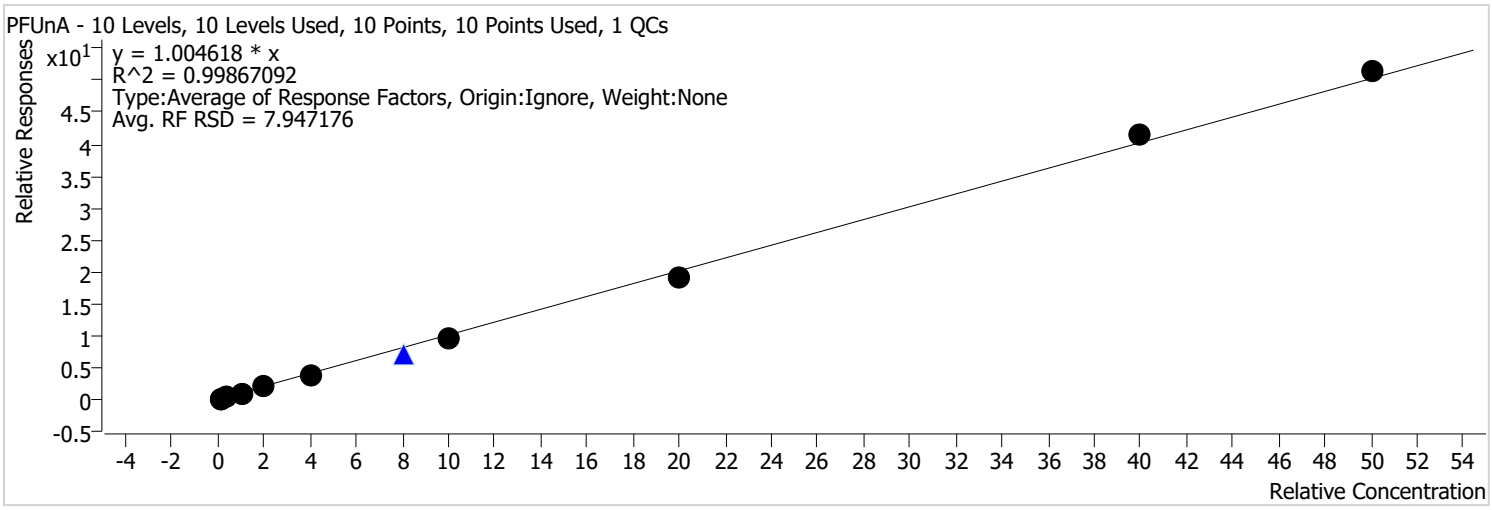
R:\Data\MAY2024\050824_B\CALA_1633_050824.d	Calibration	10	x	86826	1.2500	0.7316
R:\Data\MAY2024\050824_B\CAL2_1633_050824.d	Calibration	2	x	105341	1.2500	0.7916
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	93503	1.2500	0.6831
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	111327	1.2500	0.8257
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	121050	1.2500	0.8780
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	117753	1.2500	0.8395
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	113764	1.2500	0.8853
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	104730	1.2500	0.8085
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	87712	1.2500	0.7205
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV	x	112806	1.2500	0.8825

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:50 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/9/2024 9:16 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

PFUnA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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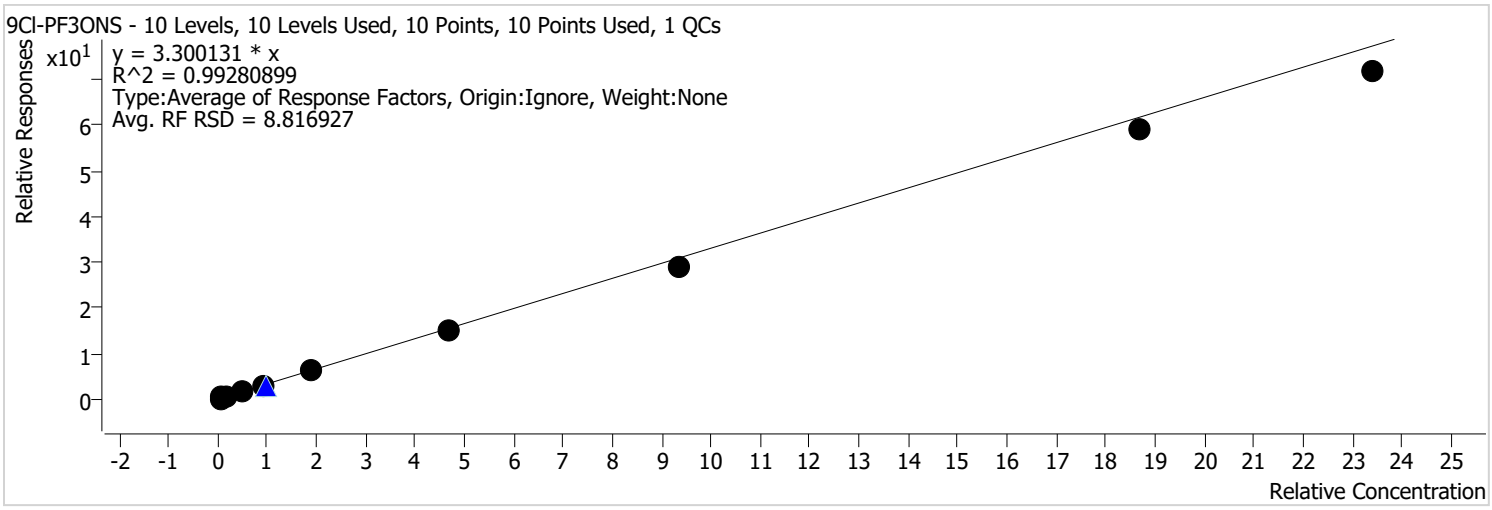
R:\Data\MAY2024\050824_B\CAL2_1633_050824.d	Calibration	2	x	16287	0.2000	0.9663
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	41413	0.5000	1.1073
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	101889	1.2500	0.9152
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	224860	2.5000	0.9288
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	458009	5.0000	0.9724
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV	x	783165	10.0000	0.8678
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	1103665	12.5000	0.9701
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	2003300	25.0000	0.9564
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	3649661	50.0000	1.0402
R:\Data\MAY2024\050824_B\CALA_1633_050824.d	Calibration	10	x	4452024	62.5000	1.0255

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:50 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/9/2024 9:16 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

9Cl-PF3ONS



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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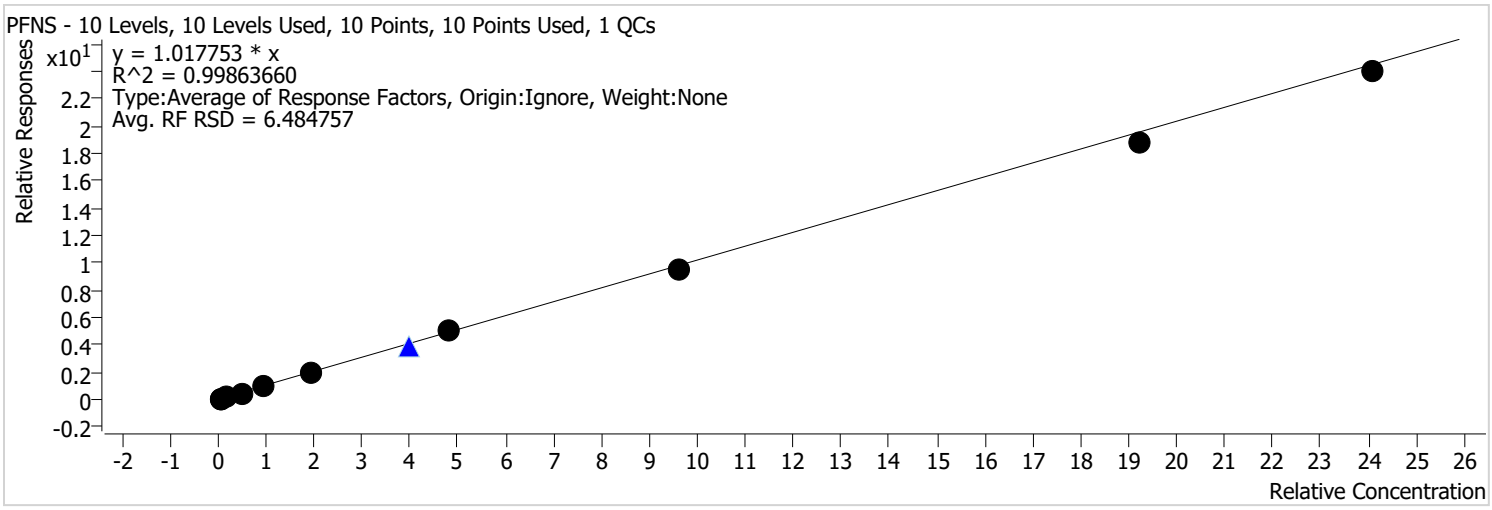
R:\Data\MAY2024\050824_B\CAL2_1633_050824.d	Calibration	2	x	68050	0.7480	3.6079
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	160765	1.8700	3.9617
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	418821	4.6750	3.4124
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	819381	9.3500	3.0524
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV	x	828717	10.0000	3.1005
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	1670868	18.7000	3.2699
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	3980529	46.7500	3.1720
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	7007602	93.5000	3.0655
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	12122786	187.0000	3.1449
R:\Data\MAY2024\050824_B\CALA_1633_050824.d	Calibration	10	x	14208007	233.7500	3.0615

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:50 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/9/2024 9:16 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

PFNS



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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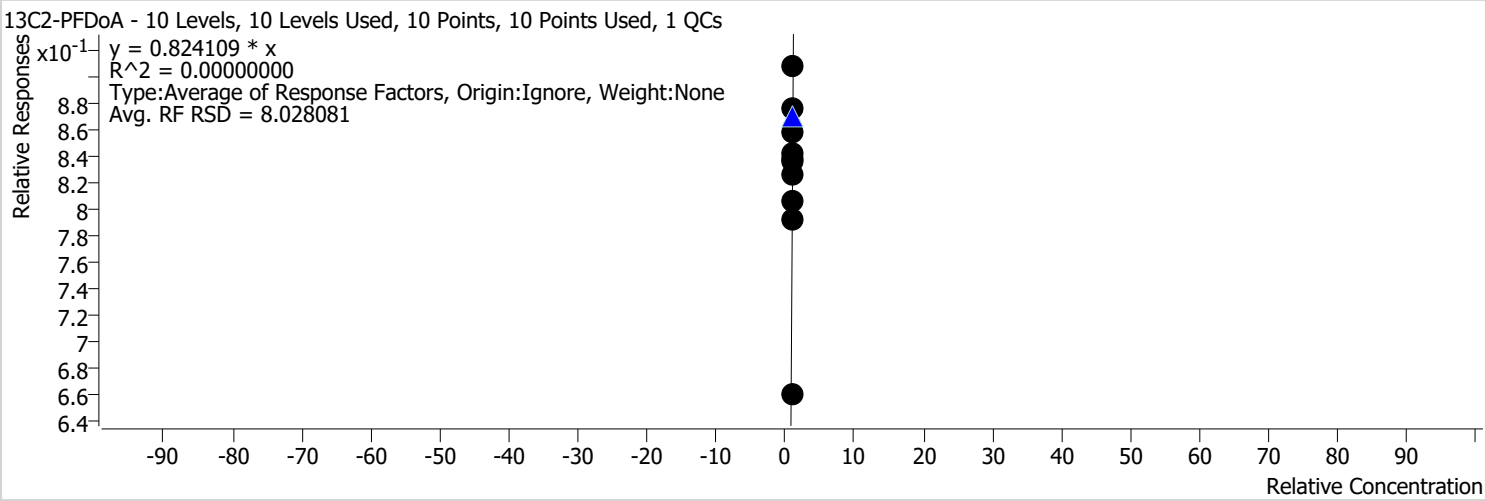
R:\Data\MAY2024\050824_B\CAL2_1633_050824.d	Calibration	2	x	2938	0.1924	0.9655
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	7429	0.4810	1.1643
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	18481	1.2030	0.9388
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	41691	2.4050	1.0178
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	82721	4.8100	1.0020
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV	x	163676	10.0000	0.9807
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	203752	12.0250	1.0285
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	374667	24.0500	0.9932
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	674538	48.1000	0.9777
R:\Data\MAY2024\050824_B\CALA_1633_050824.d	Calibration	10	x	806306	60.1250	0.9963

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:50 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/9/2024 9:16 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

13C2-PFDoA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
R:\Data\MAY2024\050824_B\CAL1_1633_050824.d	Calibration	1	x	107829	1.2500	0.8061
R:\Data\MAY2024\050824_B\CALA_1633_050824.d	Calibration	10	x	99859	1.2500	0.8414
R:\Data\MAY2024\050824_B\CAL2_1633_050824.d	Calibration	2	x	105449	1.2500	0.7924
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	90457	1.2500	0.6608
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	112646	1.2500	0.8354
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	120818	1.2500	0.8763
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	115910	1.2500	0.8264
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	116620	1.2500	0.9076
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	111064	1.2500	0.8574
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	101939	1.2500	0.8373
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV	x	111228	1.2500	0.8702

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:50 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/9/2024 9:16 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

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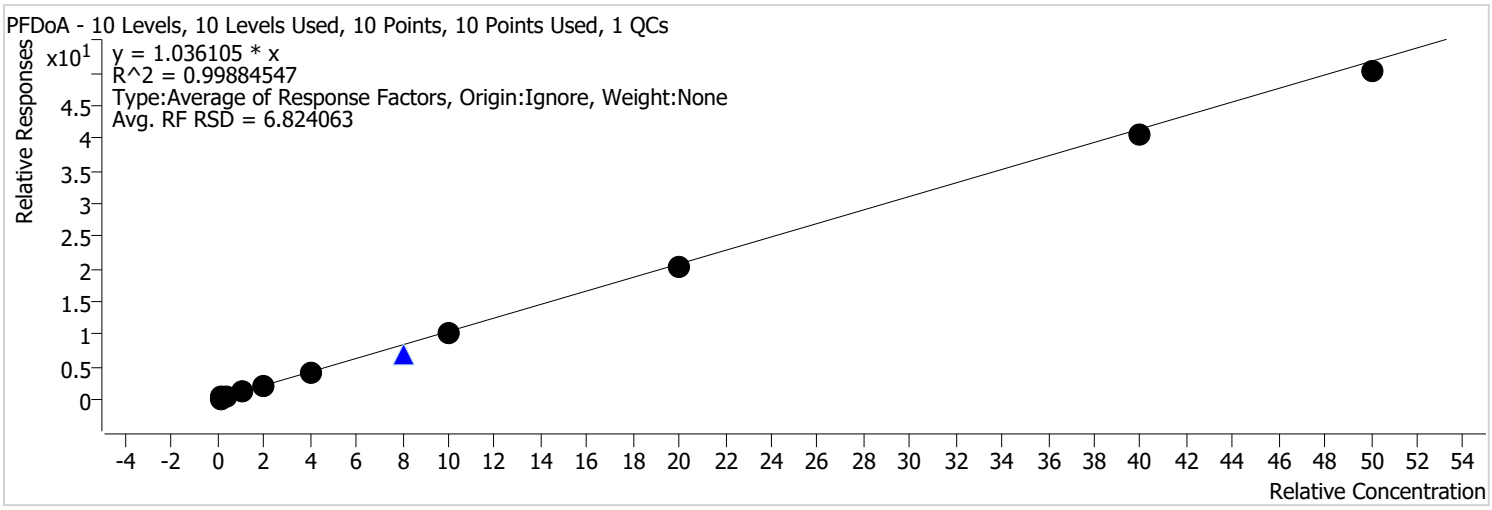
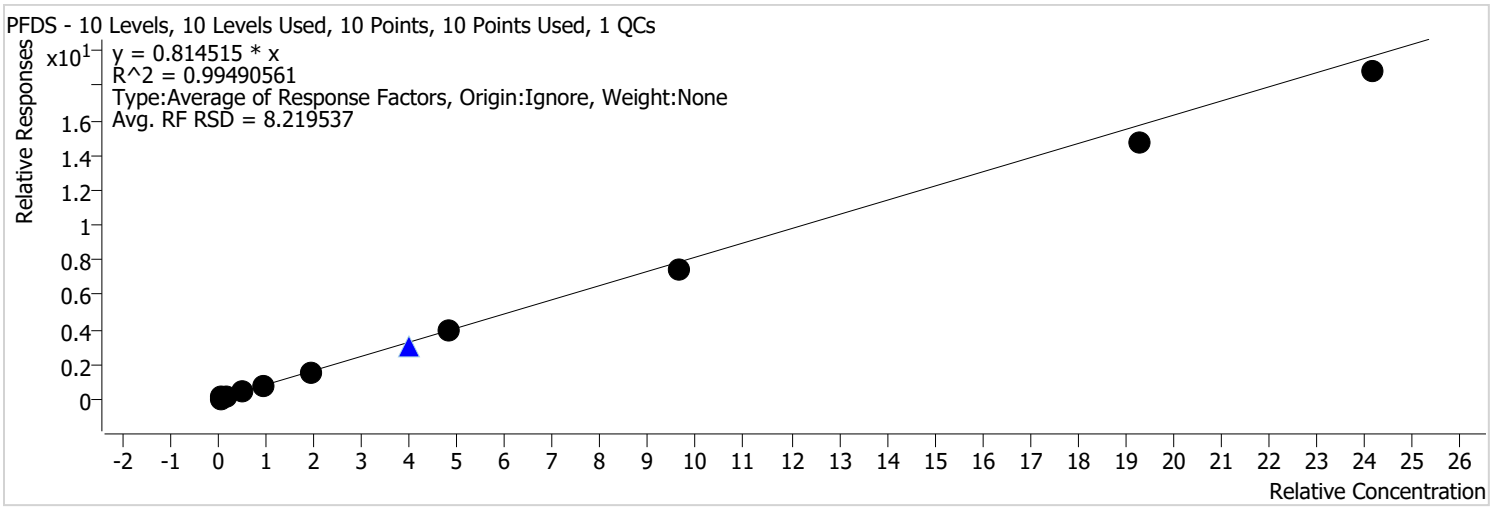


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
R:\Data\MAY2024\050824_B\CAL1_1633_050824.d	Calibration	1	x	9227	0.1000	1.0696
R:\Data\MAY2024\050824_B\CAL2_1633_050824.d	Calibration	2	x	18525	0.2000	1.0980
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	43535	0.5000	1.2032
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	108852	1.2500	0.9663
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	236058	2.5000	0.9769
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	464010	5.0000	1.0008
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV	x	783214	10.0000	0.8802
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	1179281	12.5000	1.0112
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	2253913	25.0000	1.0147
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	4145127	50.0000	1.0166
R:\Data\MAY2024\050824_B\CALA_1633_050824.d	Calibration	10	x	5011661	62.5000	1.0038

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:50 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/9/2024 9:16 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

PFDS



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
R:\Data\MAY2024\050824_B\CAL1_1633_050824.d	Calibration	1	x	1361	0.0965	0.9025
R:\Data\MAY2024\050824_B\CAL2_1633_050824.d	Calibration	2	x	2395	0.1930	0.7847
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	6178	0.4825	0.9653
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	15165	1.2060	0.7685
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	33495	2.4130	0.8150
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	65963	4.8250	0.7965
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV	x	127924	10.0000	0.7665
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	160311	12.0630	0.8067
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	290783	24.1250	0.7684
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	525780	48.2500	0.7597
R:\Data\MAY2024\050824_B\CALA_1633_050824.d	Calibration	10	x	631505	60.3130	0.7779

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:50 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/9/2024 9:16 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

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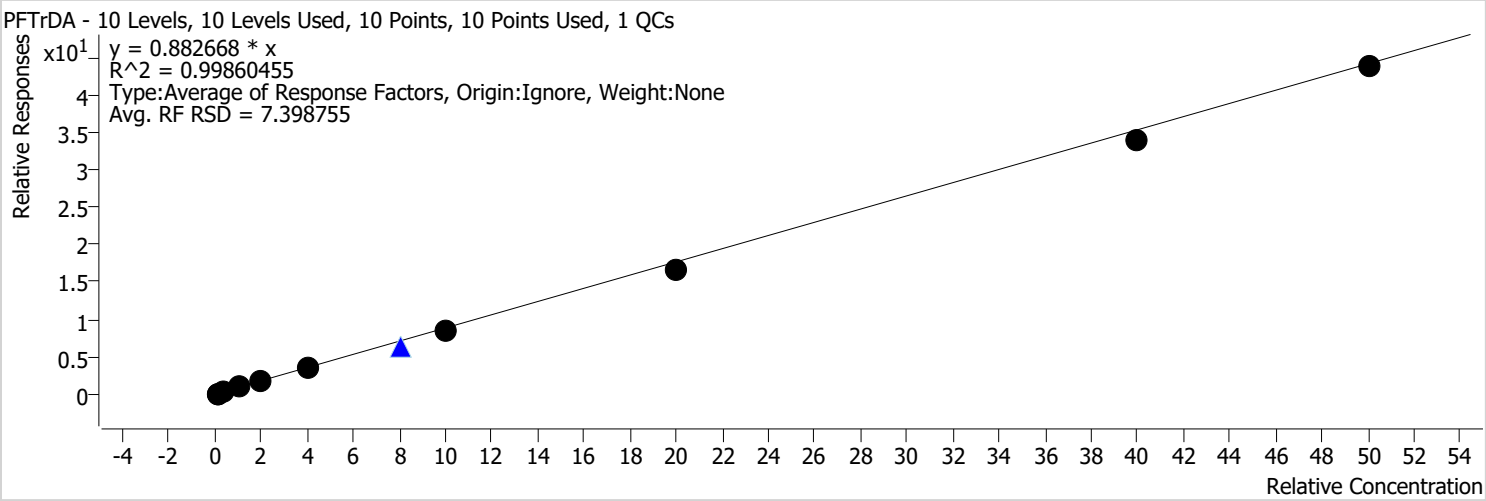

Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
R:\Data\MAY2024\050824_B\CAL1_1633_050824.d	Calibration	1	x	8712	0.1000	1.0099
R:\Data\MAY2024\050824_B\CAL2_1633_050824.d	Calibration	2	x	14225	0.2000	0.8431
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	36015	0.5000	0.9954
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	95948	1.2500	0.8518
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	203180	2.5000	0.8409
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	410603	5.0000	0.8856
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV	x	705794	10.0000	0.7932
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	984649	12.5000	0.8443
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	1847882	25.0000	0.8319
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	3464368	50.0000	0.8496
R:\Data\MAY2024\050824_B\CALA_1633_050824.d	Calibration	10	x	4364883	62.5000	0.8742

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:50 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/9/2024 9:16 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

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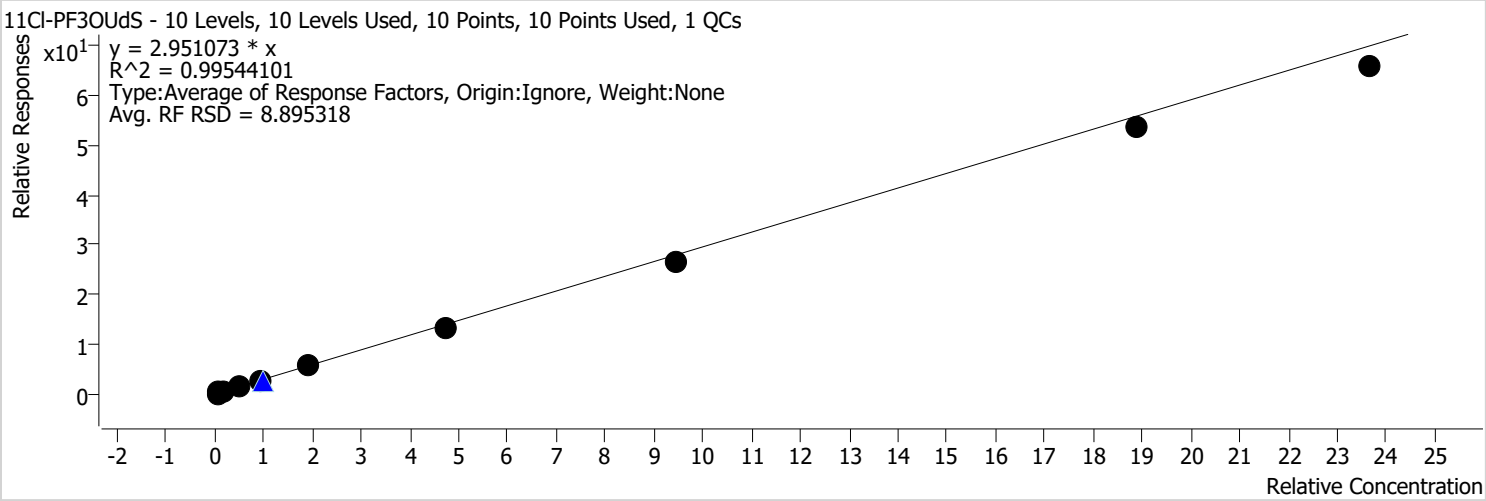

Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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R:\Data\MAY2024\050824_B\CAL2_1633_050824.d	Calibration	2	x	60577	0.7560	3.1777
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	146965	1.8900	3.5833
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	375500	4.7250	3.0271
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	730349	9.4500	2.6919
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV	x	735632	10.0000	2.7522
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	1519375	18.9000	2.9419
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	3523642	47.2500	2.7782
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	6511018	94.5000	2.8181
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	11060755	189.0000	2.8390
R:\Data\MAY2024\050824_B\CALA_1633_050824.d	Calibration	10	x	13022603	236.2500	2.7764

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:50 AM	**Reporter Name**	CONTEST\QQQ5
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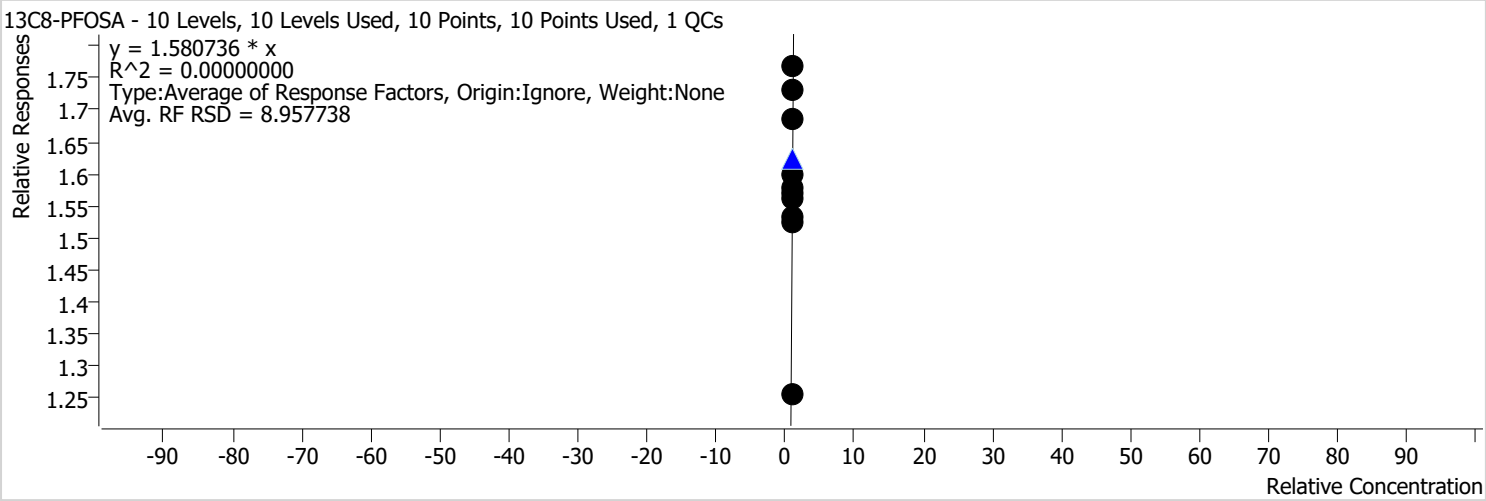
Quant Batch Version	10.2	**Quant Report Version**	10.2

13C8-PFOSA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
R:\Data\MAY2024\050824_B\CAL1_1633_050824.d	Calibration	1	x	68363	2.5000	1.5611
R:\Data\MAY2024\050824_B\CALA_1633_050824.d	Calibration	10	x	64202	2.5000	1.7667
R:\Data\MAY2024\050824_B\CAL2_1633_050824.d	Calibration	2	x	67208	2.5000	1.5244
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	57167	2.5000	1.2560
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	70253	2.5000	1.5333
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	76009	2.5000	1.5996
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	73110	2.5000	1.5687
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	73481	2.5000	1.7328
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	67034	2.5000	1.5791
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	64334	2.5000	1.6856
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV	x	72239	2.5000	1.6225

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:50 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/9/2024 9:16 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

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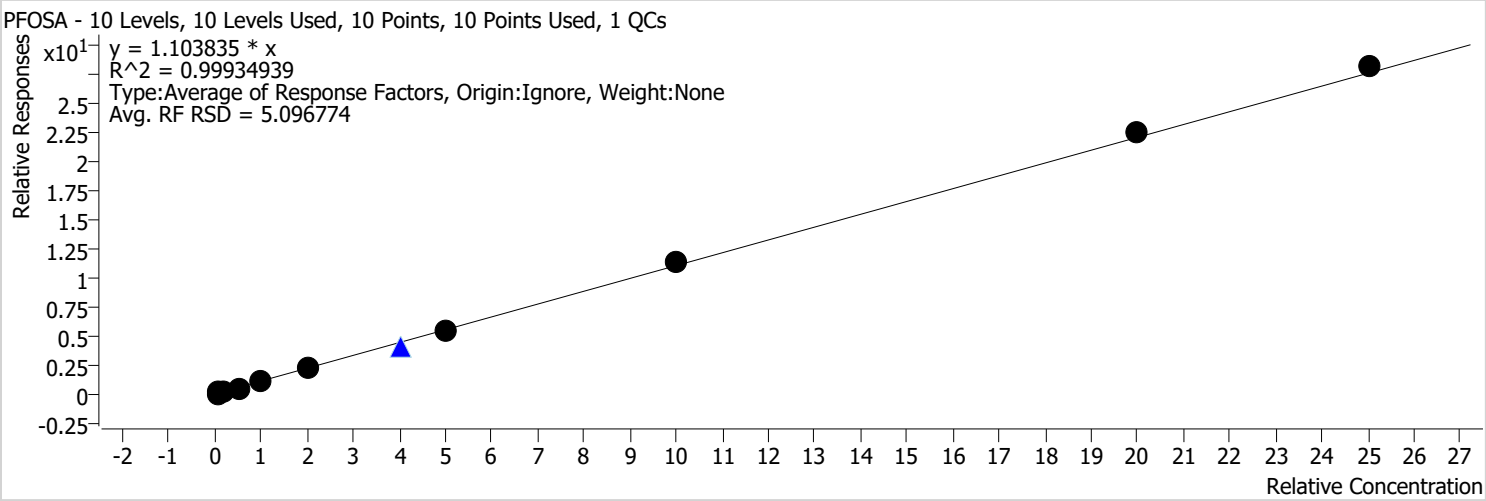

Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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R:\Data\MAY2024\050824_B\CAL2_1633_050824.d	Calibration	2	x	5751	0.2000	1.0697
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	14046	0.5000	1.2285
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	36357	1.2500	1.0350
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	81724	2.5000	1.0752
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	162288	5.0000	1.1099
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV	x	292875	10.0000	1.0136
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	400345	12.5000	1.0897
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	762030	25.0000	1.1368
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	1449655	50.0000	1.1267
R:\Data\MAY2024\050824_B\CALA_1633_050824.d	Calibration	10	x	1806506	62.5000	1.1255

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:50 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/9/2024 9:16 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

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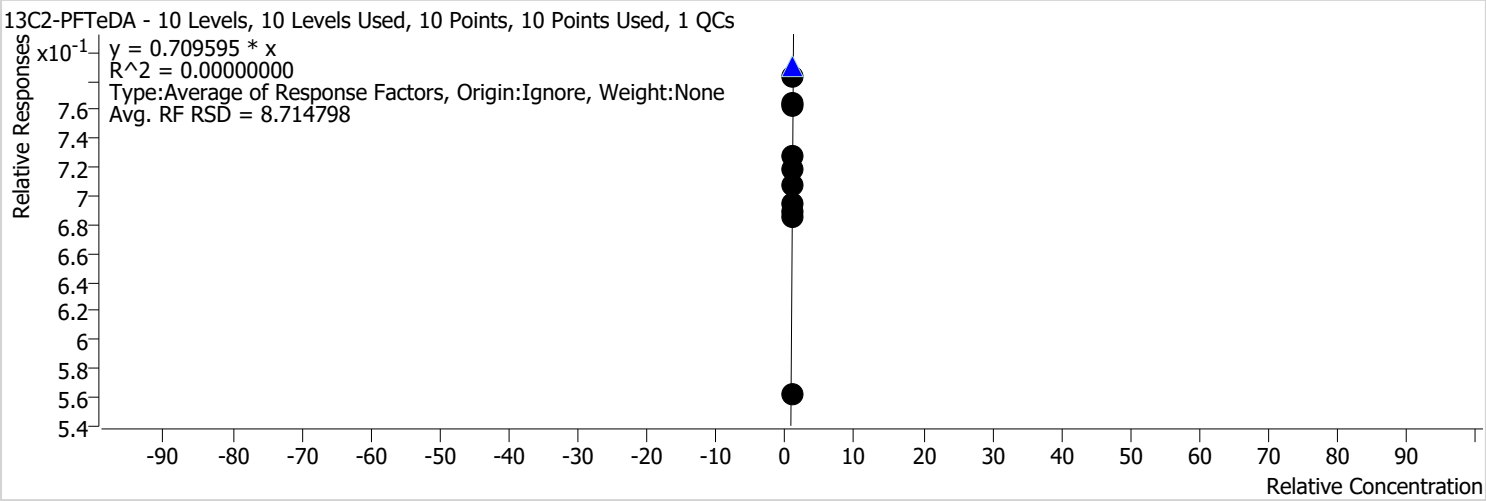

Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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R:\Data\MAY2024\050824_B\CAL2_1633_050824.d	Calibration	2	x	91263	1.2500	0.6858
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	76971	1.2500	0.5623
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	93731	1.2500	0.6952
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	99121	1.2500	0.7189
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	99195	1.2500	0.7072
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	100527	1.2500	0.7823
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	94382	1.2500	0.7286
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	93068	1.2500	0.7645
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV	x	100952	1.2500	0.7898

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:50 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/9/2024 9:16 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

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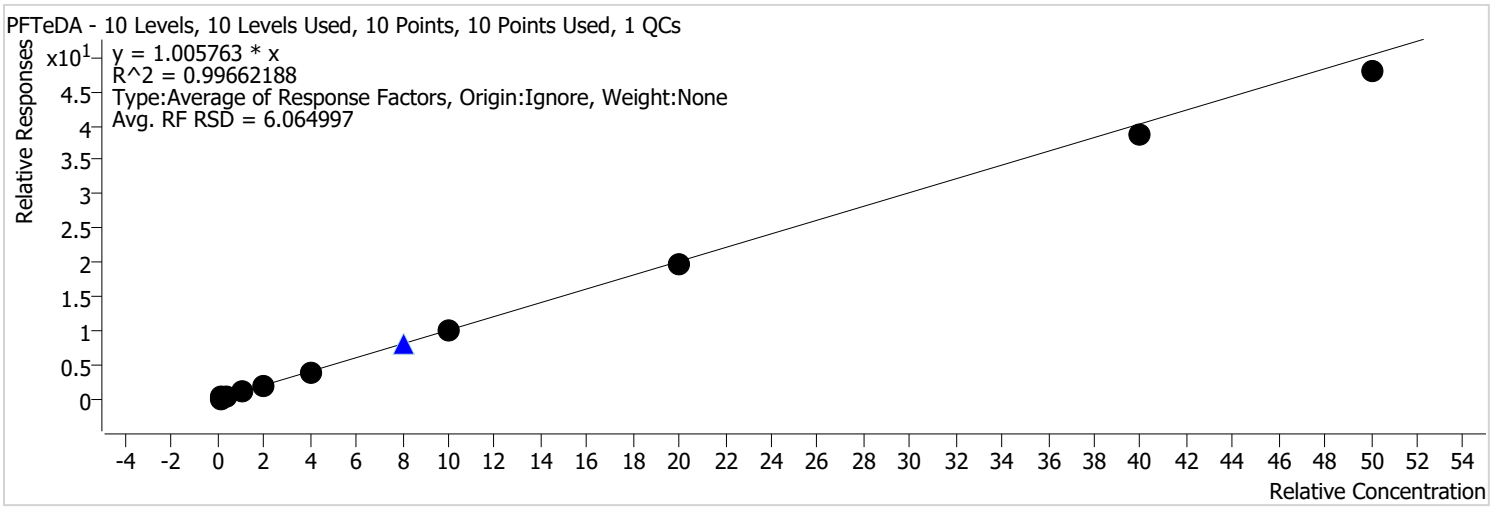

Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	35733	0.5000	1.1606
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	90062	1.2500	0.9609
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	201829	2.5000	1.0181
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	397778	5.0000	1.0025
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV	x	814488	10.0000	1.0085
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	996000	12.5000	0.9908
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	1863567	25.0000	0.9873
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	3583596	50.0000	0.9626
R:\Data\MAY2024\050824_B\CALA_1633_050824.d	Calibration	10	x	4324902	62.5000	0.9562

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:50 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/9/2024 9:16 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

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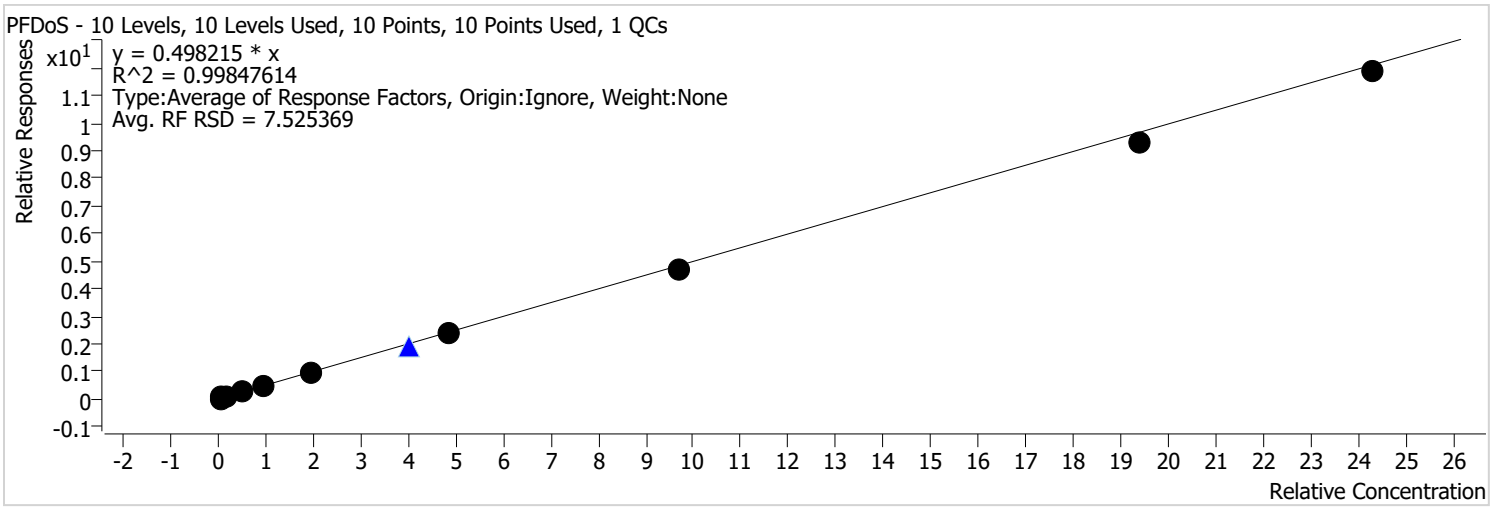

Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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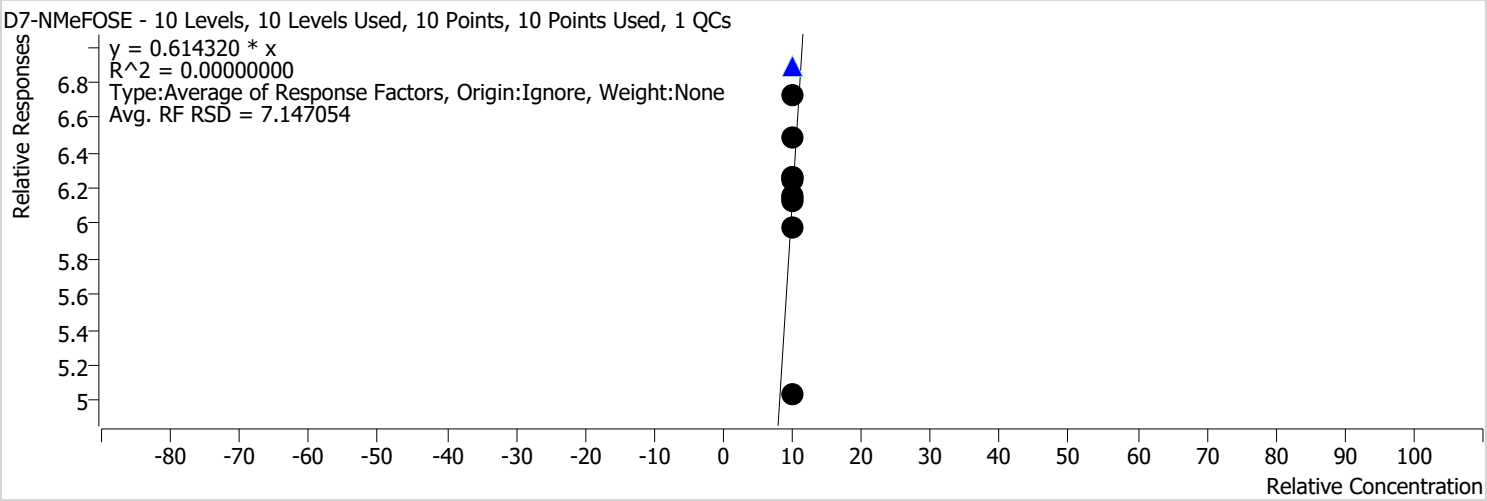
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	3846	0.4850	0.5979
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	9374	1.2130	0.4723
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	20460	2.4250	0.4953
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	40253	4.8500	0.4836
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV	x	79127	10.0000	0.4741
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	98165	12.1250	0.4914
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	182240	24.2500	0.4791
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	332394	48.5000	0.4778
R:\Data\MAY2024\050824_B\CALA_1633_050824.d	Calibration	10	x	398494	60.6250	0.4883

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:50 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/9/2024 9:16 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

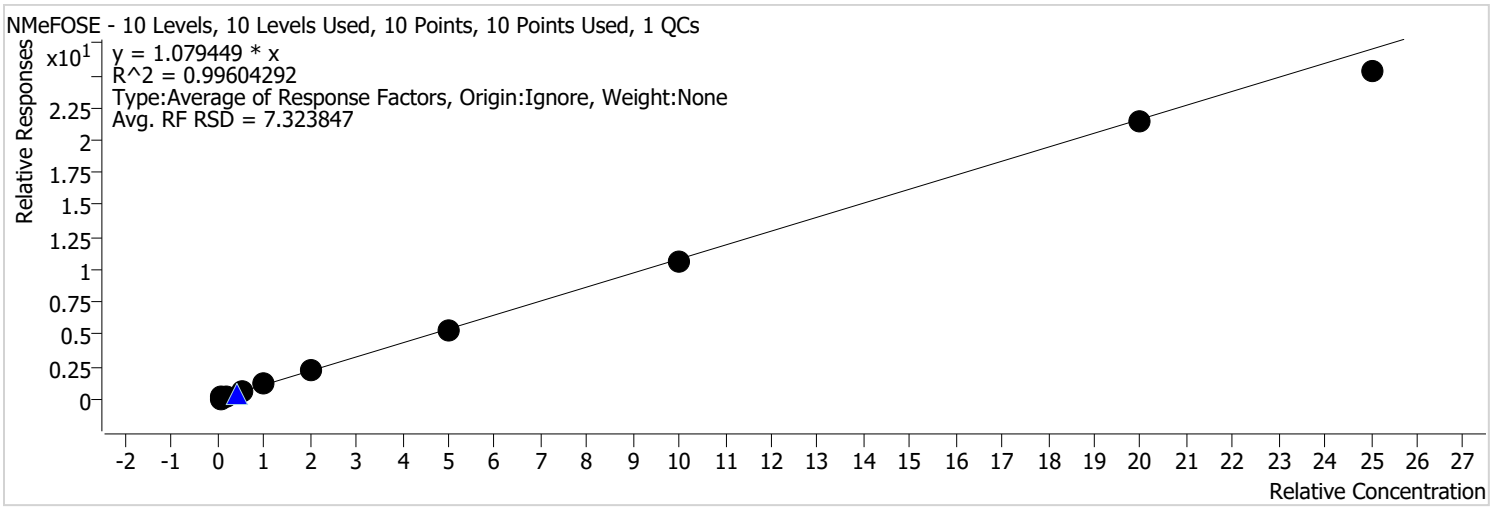
D7-NMeFOSE



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
R:\Data\MAY2024\050824_B\CAL1_1633_050824.d	Calibration	1	x	284088	25.0000	0.6487
R:\Data\MAY2024\050824_B\CALA_1633_050824.d	Calibration	10	x	227563	25.0000	0.6262
R:\Data\MAY2024\050824_B\CAL2_1633_050824.d	Calibration	2	x	270669	25.0000	0.6139
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	229396	25.0000	0.5040
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	282220	25.0000	0.6160
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	296760	25.0000	0.6245
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	291891	25.0000	0.6263
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	285023	25.0000	0.6721
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	260341	25.0000	0.6133
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	228283	25.0000	0.5981
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV	x	306532	25.0000	0.6885

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:50 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/9/2024 9:16 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

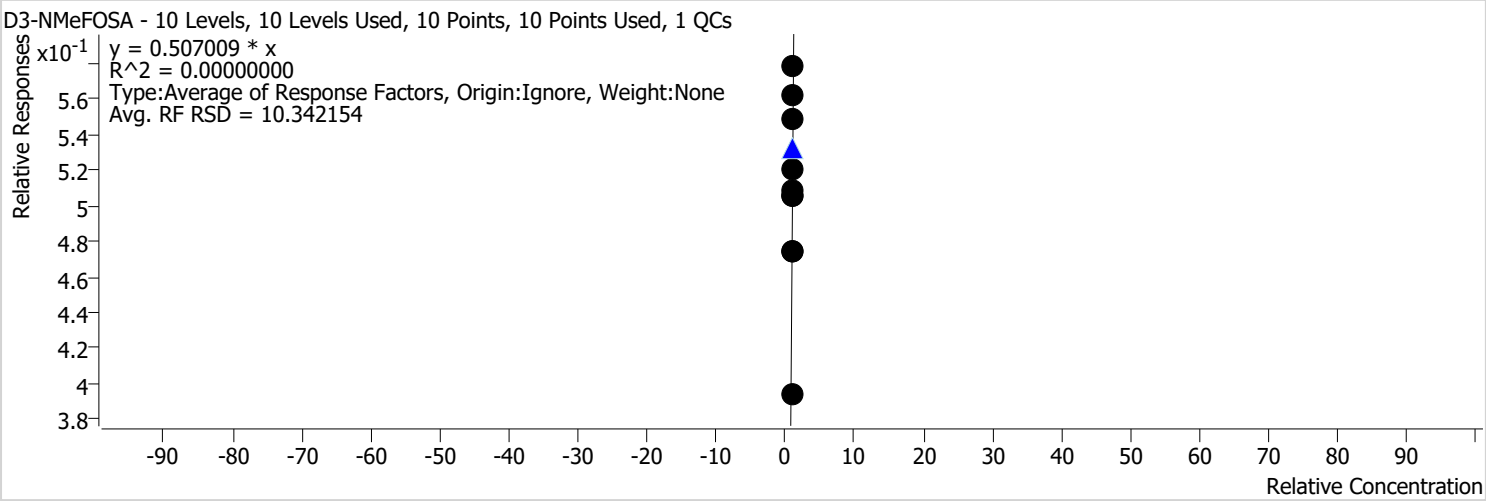
NMeFOSE



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
R:\Data\MAY2024\050824_B\CAL1_1633_050824.d	Calibration	1	x	11241	1.0000	0.9892
R:\Data\MAY2024\050824_B\CAL2_1633_050824.d	Calibration	2	x	23590	2.0000	1.0894
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	58855	5.0000	1.2828
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV	x	125063	10.0000	1.0200
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	149235	12.5000	1.0576
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	326317	25.0000	1.0996
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	626478	50.0000	1.0731
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	1523152	125.0000	1.0688
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	2744108	250.0000	1.0540
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	4886387	500.0000	1.0702
R:\Data\MAY2024\050824_B\CALA_1633_050824.d	Calibration	10	x	5743801	625.0000	1.0096

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:50 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/9/2024 9:16 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

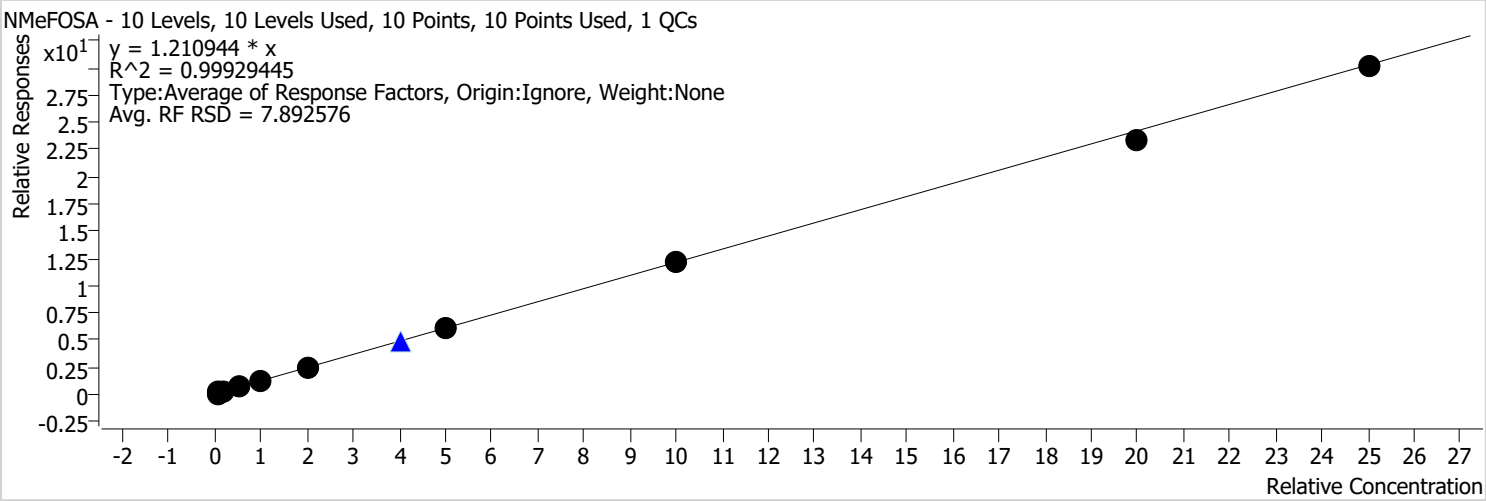
D3-NMeFOSA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
R:\Data\MAY2024\050824_B\CAL1_1633_050824.d	Calibration	1	x	22116	2.5000	0.5050
R:\Data\MAY2024\050824_B\CALA_1633_050824.d	Calibration	10	x	20995	2.5000	0.5778
R:\Data\MAY2024\050824_B\CAL2_1633_050824.d	Calibration	2	x	20877	2.5000	0.4735
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	17955	2.5000	0.3945
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	21752	2.5000	0.4748
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	24013	2.5000	0.5053
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	23685	2.5000	0.5082
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	23283	2.5000	0.5490
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	22097	2.5000	0.5205
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	21428	2.5000	0.5614
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV	x	23677	2.5000	0.5318

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:50 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/9/2024 9:16 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

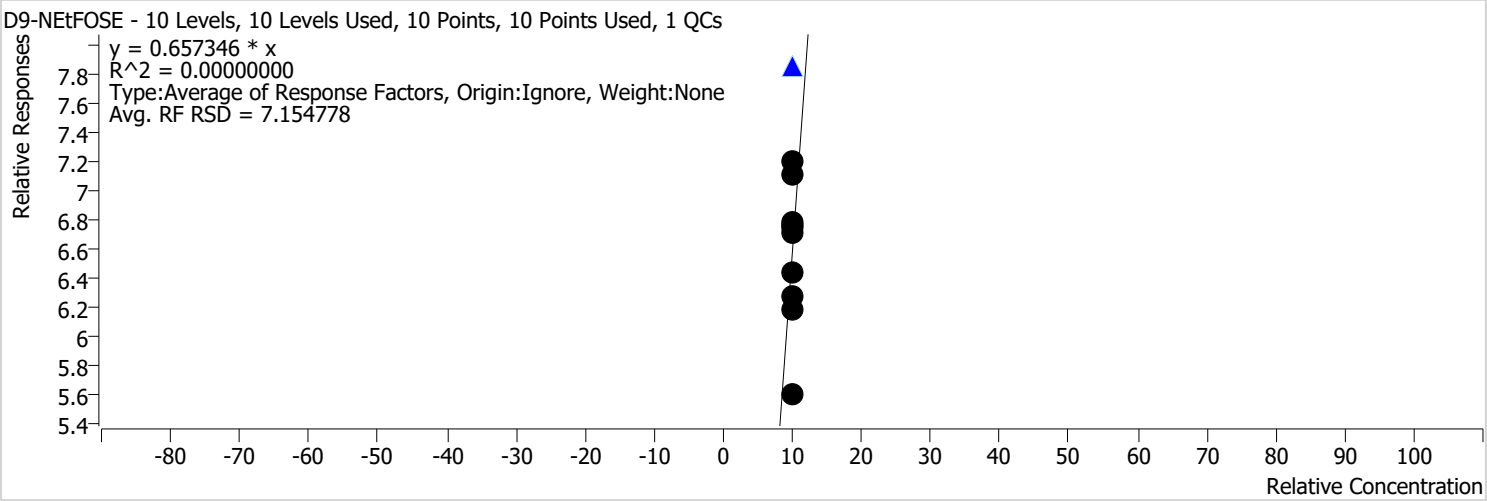
NMeFOSA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
R:\Data\MAY2024\050824_B\CAL1_1633_050824.d	Calibration	1	x	936	0.1000	1.0576
R:\Data\MAY2024\050824_B\CAL2_1633_050824.d	Calibration	2	x	2089	0.2000	1.2506
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	5179	0.5000	1.4423
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	13178	1.2500	1.2117
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	28301	2.5000	1.1786
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	56142	5.0000	1.1852
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV	x	113643	10.0000	1.1999
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	140466	12.5000	1.2066
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	266120	25.0000	1.2043
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	500967	50.0000	1.1690
R:\Data\MAY2024\050824_B\CALA_1633_050824.d	Calibration	10	x	631739	62.5000	1.2036

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:50 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/9/2024 9:16 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

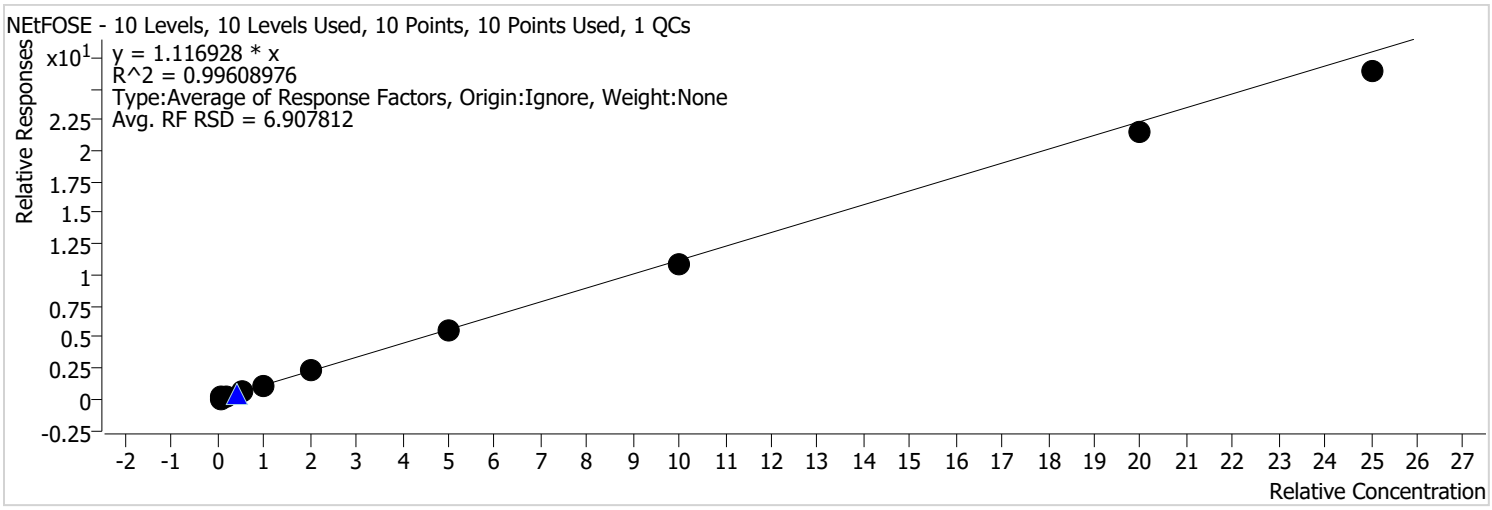
D9-NEtFOSE



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
R:\Data\MAY2024\050824_B\CAL1_1633_050824.d	Calibration	1	x	314975	25.0000	0.7193
R:\Data\MAY2024\050824_B\CALA_1633_050824.d	Calibration	10	x	227542	25.0000	0.6262
R:\Data\MAY2024\050824_B\CAL2_1633_050824.d	Calibration	2	x	296755	25.0000	0.6731
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	254981	25.0000	0.5602
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	306761	25.0000	0.6695
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	321305	25.0000	0.6762
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	316027	25.0000	0.6781
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	300941	25.0000	0.7097
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	273096	25.0000	0.6433
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	235844	25.0000	0.6179
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV	x	349079	25.0000	0.7841

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:51 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/9/2024 9:16 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

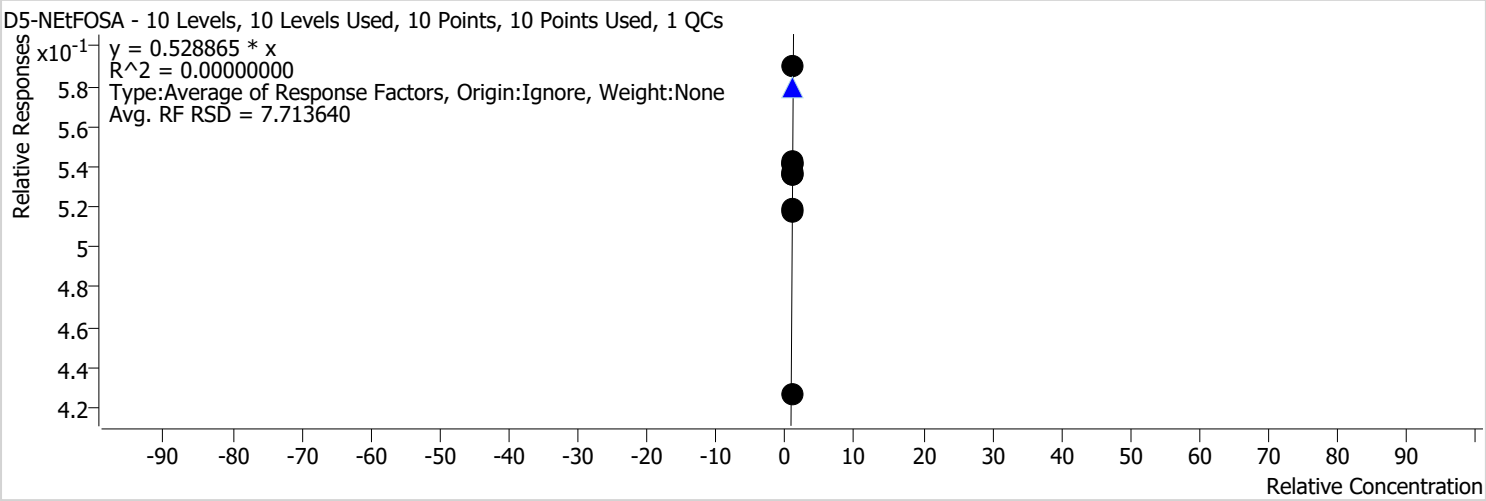
NEtFOSE



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
R:\Data\MAY2024\050824_B\CAL1_1633_050824.d	Calibration	1	x	13317	1.0000	1.0570
R:\Data\MAY2024\050824_B\CAL2_1633_050824.d	Calibration	2	x	26768	2.0000	1.1275
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	67434	5.0000	1.3223
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV	x	151704	10.0000	1.0865
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	168530	12.5000	1.0988
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	364668	25.0000	1.1350
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	702225	50.0000	1.1110
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	1662988	125.0000	1.1052
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	2955199	250.0000	1.0821
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	5080536	500.0000	1.0771
R:\Data\MAY2024\050824_B\CALA_1633_050824.d	Calibration	10	x	5991668	625.0000	1.0533

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:51 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/9/2024 9:16 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

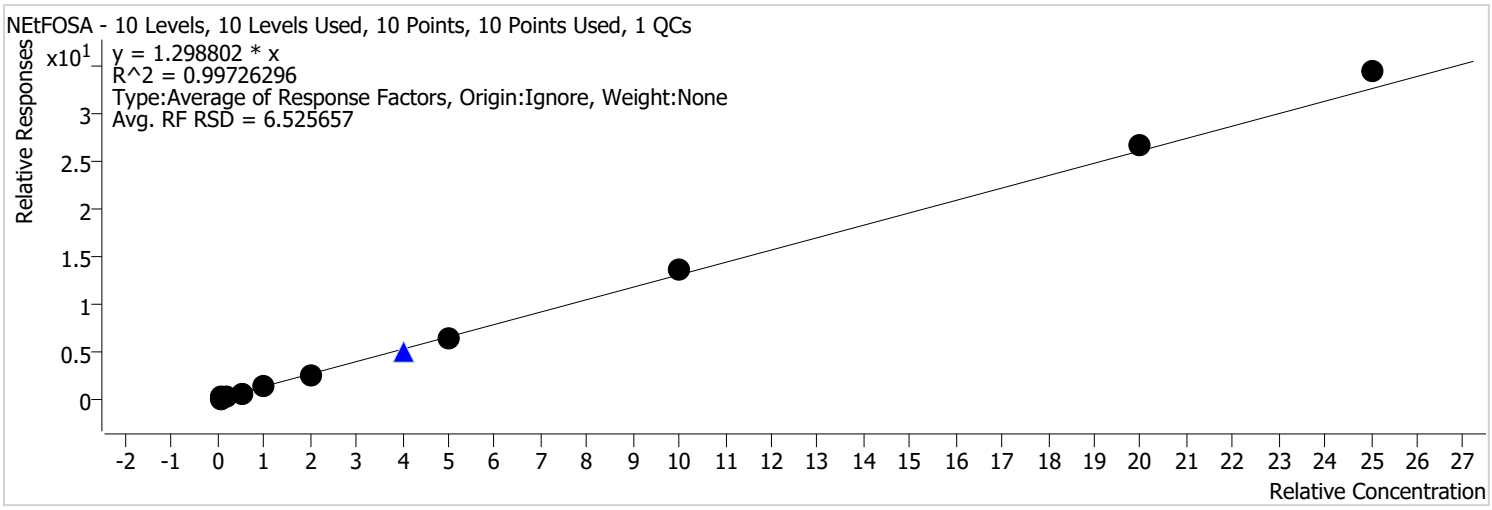
D5-NEtFOSA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
R:\Data\MAY2024\050824_B\CAL1_1633_050824.d	Calibration	1	x	23536	2.5000	0.5375
R:\Data\MAY2024\050824_B\CALA_1633_050824.d	Calibration	10	x	19657	2.5000	0.5409
R:\Data\MAY2024\050824_B\CAL2_1633_050824.d	Calibration	2	x	23615	2.5000	0.5356
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	19432	2.5000	0.4269
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	23780	2.5000	0.5190
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	25747	2.5000	0.5418
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	24992	2.5000	0.5363
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	25000	2.5000	0.5895
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	21987	2.5000	0.5179
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	20729	2.5000	0.5431
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV	x	25770	2.5000	0.5788

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/9/2024 9:24:51 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/9/2024 9:16 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

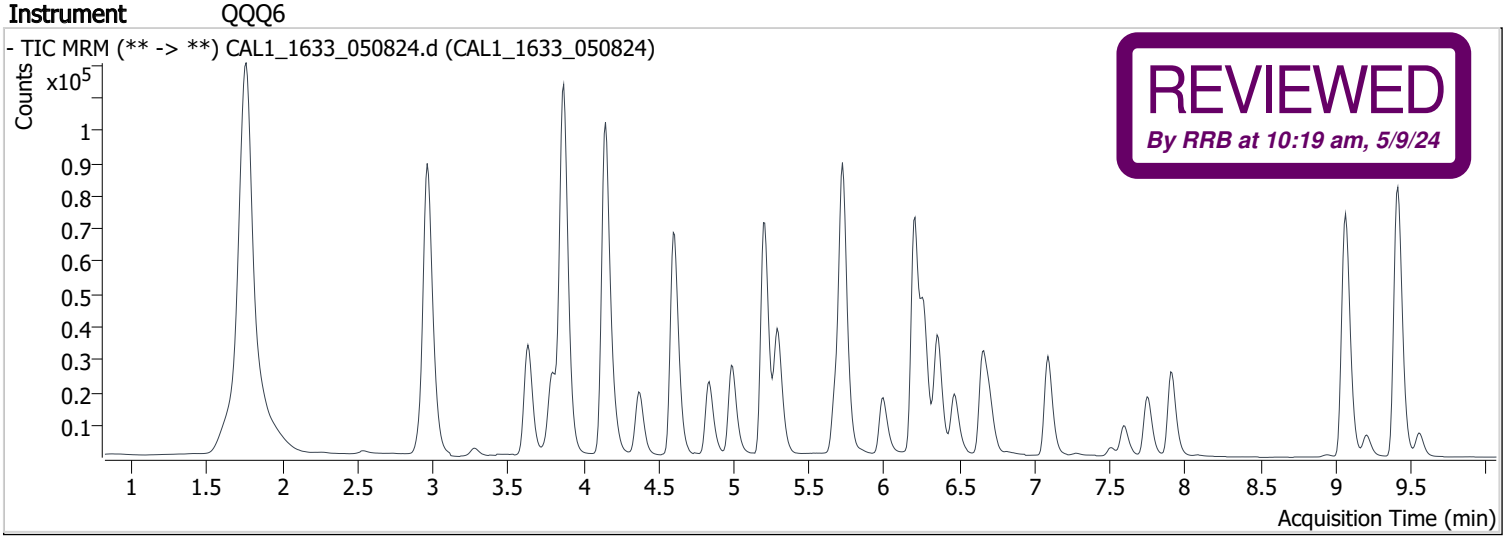
NEtFOSA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
R:\Data\MAY2024\050824_B\CAL1_1633_050824.d	Calibration	1	x	1139	0.1000	1.2103
R:\Data\MAY2024\050824_B\CAL2_1633_050824.d	Calibration	2	x	2340	0.2000	1.2384
R:\Data\MAY2024\050824_B\CAL3_1633_050824.d	Calibration	3	x	5755	0.5000	1.4809
R:\Data\MAY2024\050824_B\CAL4_1633_050824.d	Calibration	4	x	14572	1.2500	1.2255
R:\Data\MAY2024\050824_B\CAL5_1633_050824.d	Calibration	5	x	31727	2.5000	1.2323
R:\Data\MAY2024\050824_B\CAL6_1633_050824.d	Calibration	6	x	63843	5.0000	1.2773
R:\Data\MAY2024\050824_B\ICV_1633_050824.d	QC	ICV	x	127544	10.0000	1.2373
R:\Data\MAY2024\050824_B\CAL7_1633_050824.d	Calibration	7	x	159021	12.5000	1.2722
R:\Data\MAY2024\050824_B\CAL8_1633_050824.d	Calibration	8	x	298277	25.0000	1.3566
R:\Data\MAY2024\050824_B\CAL9_1633_050824.d	Calibration	9	x	549277	50.0000	1.3249
R:\Data\MAY2024\050824_B\CALA_1633_050824.d	Calibration	10	x	673072	62.5000	1.3696

Quantitative Analysis Sample Report

Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Last Calib Update**	5/9/2024 9:16 AM
Acq. Time	5/8/2024 6:16 PM	**Data File**	CAL1_1633_050824.d
Sample Type	Cal	**Sample Name**	CAL1_1633_050824
Dilution	1	**Acq. Method**	1633_ACQUISITION_01.m
Sample Comment	E#24E0154	**Processing method**	1633_042924.m
Instrument	QQQ6		



REVIEWED
By RRB at 10:19 am, 5/9/24

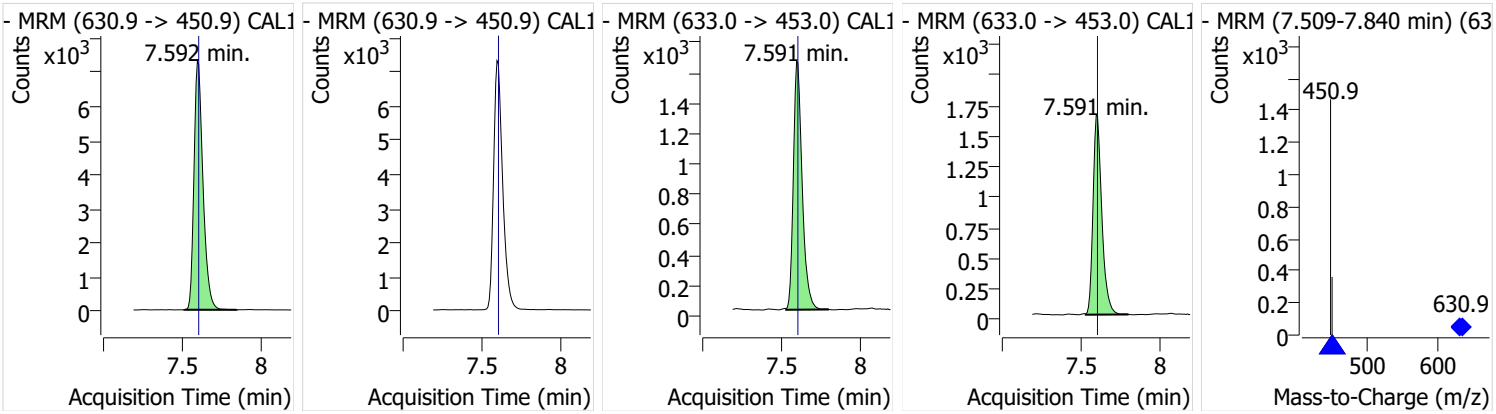
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
11Cl-PF3OUdS	7.592	28989	3854.34		13C3-HFPODA - ISTD	4.152	266562	0.3685	ng/ml			
633.0 -> 453.0			832.26	21.9								
3:3FTCA	2.532	2502	698.50		13C5-PFPeA - ISTD	2.961	397400	0.8858	ng/ml			
241.0 -> 117.0			111.98	46.6								
4:2FTS	3.631	7219	1955.99		13C2-4:2FTS - ISTD	3.630	35800	0.3454	ng/ml			
327.0 -> 80.9			899.87	40.0								
5:3FTCA	4.368	39462	6086.93		13C5-PFHxA - ISTD	3.869	219769	4.5063	ng/ml			
341.0 -> 217.0			5557.28	91.7								
6:2FTS	4.983	7618	1561.21		13C2-6:2FTS - ISTD	4.982	21798	0.5159	ng/ml			
427.0 -> 80.9			552.46	34.4								
7:3FTCA	5.683	47101	4826.43		13C5-PFHxA - ISTD	3.869	219769	4.5672	ng/ml			
441.0 -> 317.0			3605.95	90.2								
8:2FTS	5.984	3354	3109.69		13C2-8:2FTS - ISTD	5.991	16554	0.3969	ng/ml			
527.0 -> 81.0			2986.06	46.7								
9Cl-PF3ONS	6.704	32432	1982.97		13C3-HFPODA - ISTD	4.152	266562	0.3687	ng/ml			
533.0 -> 353.0			1111.98	29.9								
ADONA	4.838	63482	4827.80		13C3-HFPODA - ISTD	4.152	266562	0.3205	ng/ml			
377.0 -> 85.1			7356.40	34.9								
HFPO-DA	4.153	8883	2059.71		13C3-HFPODA - ISTD	4.152	266562	0.3621	ng/ml			
285.0 -> 184.9			290.58	51.1								
NEtFOSA	9.565	1139	1364.79		D5-NEtFOSA - ISTD	9.555	23536	0.0932	ng/ml			

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
526.0 -> 219.0			1237.90	94.1								
NEtFOSAA	6.472	1423	745.39		D5-NEtFOSAA - ISTD	6.463	66545	0.0883	ng/ml	✔	3	AMS 05/09/24
584.0 -> 526.0			154.40	85.1								
NEtFOSE	9.436	13317	3826.77		D9-NEtFOSE - ISTD	9.411	314975	0.9463	ng/ml			
NFDHA	3.775	1588	465.17		13C5-PFHxA - ISTD	3.869	219769	0.2137	ng/ml			
295.0 -> 85.0			128.06	36.3								
NMeFOSA	9.211	936	969.38		D3-NMeFOSA - ISTD	9.210	22116	0.0873	ng/ml			
512.0 -> 219.0			641.56	101.8								
NMeFOSAA	6.261	1058	295.30		D3-NMeFOSAA - ISTD	6.260	135451	0.0921	ng/ml	✔	3	AMS 05/09/24
570.0 -> 418.9			207.99	71.8								
NMeFOSE	9.082	11241	5235.65		D7-NMeFOSE - ISTD	9.065	284088	0.9164	ng/ml			
PFBA	1.754	22837	97.12		13C4-PFBA - ISTD	1.757	648219	0.3817	ng/ml	✔	3	AMS 05/09/24
PFBS	3.791	3554	657.06		13C3-PFBS - ISTD	3.798	73887	0.0964	ng/ml			
298.9 -> 98.8			224.62	41.2								
PFDA	6.206	10689	395.23		13C6-PFDA - ISTD	6.197	128447	0.1010	ng/ml			
513.0 -> 219.0			422.23	18.9								
PFDoA	7.087	9227	399.01		13C2-PFDoA - ISTD	7.087	107829	0.1032	ng/ml			
613.0 -> 319.0			610.53	13.1								
PFDoS	8.086	787	601.41		13C8-PFOS - ISTD	6.362	39062	0.1011	ng/ml			
698.9 -> 99.0			216.38	52.3								
PFDS	7.271	1361	504.10		13C8-PFOS - ISTD	6.362	39062	0.1069	ng/ml			
599.0 -> 98.8			411.04	55.8								
PFEESA	4.206	21691	2196.85		13C5-PFHxA - ISTD	3.869	219769	0.1961	ng/ml			
315.0 -> 83.0			371.95	8.0								
PFHpA	4.599	10216	211.34		13C4-PFHpA - ISTD	4.599	249788	0.0981	ng/ml			
362.9 -> 169.0			334.83	18.3								
PFHpS	5.857	2092	387.43		13C8-PFOS - ISTD	6.362	39062	0.1016	ng/ml			
449.0 -> 98.8			353.43	62.0								
PFHxA	3.871	8669	239.08		13C5-PFHxA - ISTD	3.869	219769	0.0970	ng/ml			
313.0 -> 118.9			47.59	3.3								
PFHxS	5.293	2529	965.16		13C3-PFHxS - ISTD	5.292	54694	0.1024	ng/ml	✔	3	AMS 05/09/24
398.9 -> 99.0			237.48	49.6								
PFMBA	3.280	10563	4930.14		13C5-PFPeA - ISTD	2.961	397400	0.1931	ng/ml			
PFMPA	2.267	1865	670.41		13C5-PFPeA - ISTD	2.961	397400	0.2144	ng/ml			
PFNA	5.722	12227	368.56		13C9-PFNA - ISTD	5.721	137789	0.1104	ng/ml			
463.0 -> 219.0			580.76	18.6								
PFNS	6.826	1644	929.17		13C8-PFOS - ISTD	6.362	39062	0.1034	ng/ml			
549.0 -> 98.8			275.94	55.8								
PFOA	5.207	11416	232.12		13C8-PFOA - ISTD	5.197	230714	0.0986	ng/ml			
413.0 -> 169.0			706.11	26.0								
PFOS	6.355	2394	220.57		13C8-PFOS - ISTD	6.362	39062	0.1179	ng/ml	✔	3	AMS 05/09/24
499.0 -> 99.0			369.15	48.8								

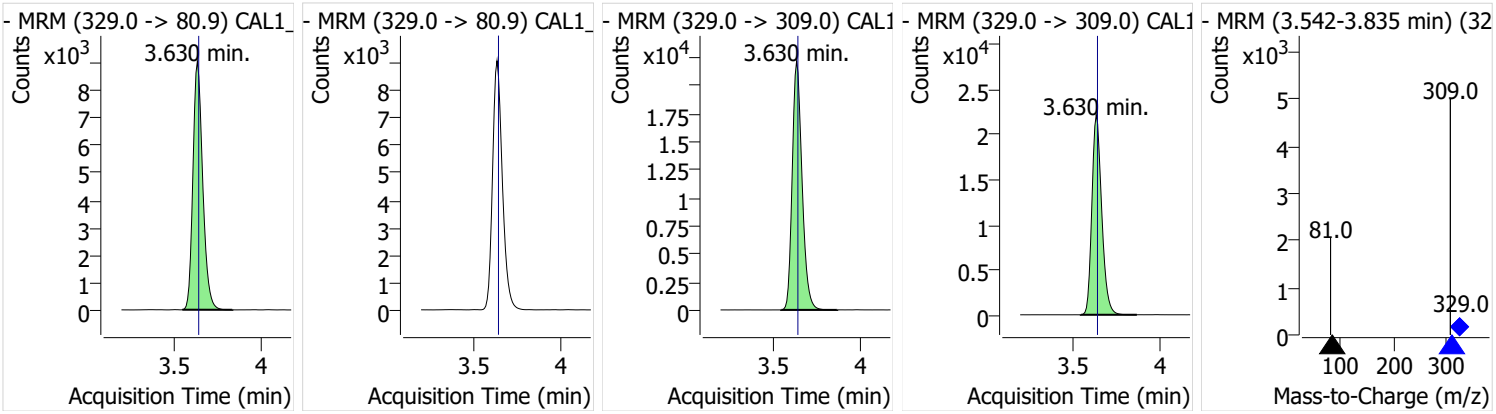
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFOSA	7.753	2848	4885.22		13C8-PFOSA - ISTD	7.751	68363	0.0943	ng/ml			
497.9 -> 478.0			812.92	3.0								
PFPeA	2.962	14987	614.69		13C5-PFPeA - ISTD	2.961	397400	0.1867	ng/ml			
263.0 -> 69.0			26.81	0.3								
PFPeS	4.633	2969	432.86		13C3-PFHxS - ISTD	5.292	54694	0.1047	ng/ml			
349.0 -> 98.9			371.70	47.2								
PFTeDA	7.902	7699	577.64		13C2-PFTeDA - ISTD	7.902	92161	0.1038	ng/ml			
713.0 -> 168.9			873.92	8.1								
PFTrDA	7.508	8712	487.46		13C2-PFDoA - ISTD	7.087	107829	0.1144	ng/ml			
663.0 -> 168.9			462.77	12.9								
PFUnA	6.654	10226	826.52		13C7-PFUnA - ISTD	6.653	109824	0.1159	ng/ml			
563.0 -> 269.1			540.33	15.7								
TDCA	6.216	342	61.15					-	ng/ml			
499.0 -> 99.0			30.23	28.7								
13C2-8:2FTS	5.991	16554	3849.55		18O2-PFHxS	5.299	52208	4.8238	ng/ml			
529.0 -> 509.0			18290.66	275.6								
13C2-4:2FTS	3.630	35800	4496.15		18O2-PFHxS	5.299	52208	5.7300	ng/ml			
329.0 -> 309.0			19134.78	246.6								
13C2-6:2FTS	4.982	21798	7003.98		18O2-PFHxS	5.299	52208	5.1632	ng/ml			
429.0 -> 409.0			47737.49	328.3								
13C5-PFHxA	3.869	219769	32793.99		13C2-PFHxA	3.870	212568	2.5089	ng/ml			
318.0 -> 120.0			745.74	1.9								
13C6-PFDA	6.197	128447	10373.48		13C2-PFDA	6.205	133762	1.2170	ng/ml			
13C7-PFUnA	6.653	109824	29015.33		13C2-PFDA	6.205	133762	1.2853	ng/ml			
13C8-PFOA	5.197	230714	41571.79		13C4-PFOA	5.207	34420	2.4449	ng/ml			
13C8-PFOS	6.362	39062	8468.11		13C4-PFOS	6.355	43792	2.4812	ng/ml			
507.0 -> 99.0			6200.58	54.1								
13C8-PFOSA	7.751	68363	71818.57		13C4-PFOS	6.355	43792	2.4689	ng/ml			
13C9-PFNA	5.721	137789	9600.08		13C5-PFNA	5.722	162030	1.2470	ng/ml			
13C5-PFPeA	2.961	397400	11426.90		13C2-PFHxA	3.870	212568	5.0622	ng/ml			
13C2-PFDoA	7.087	107829	9964.05		13C2-PFDA	6.205	133762	1.2227	ng/ml			
13C4-PFHpA	4.599	249788	42816.79		13C2-PFHxA	3.870	212568	2.5493	ng/ml			
13C4-PFBA	1.757	648219	98259.87		13C3-PFBA	1.760	300494	9.9357	ng/ml			
13C3-PFHxS	5.292	54694	19113.66		18O2-PFHxS	5.299	52208	2.5653	ng/ml			
402.0 -> 99.0			11739.36	49.9								
13C3-PFBS	3.798	73887	10884.94		18O2-PFHxS	5.299	52208	2.6186	ng/ml			
301.9 -> 98.9			8749.76	35.4								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
13C3-HFPODA	4.152	266562	31074.67		13C2-PFHxA	3.870	212568	10.8794	ng/ml			
287.0 -> 185.0			12142.97	42.9								
13C2-PFTeDA	7.902	92161	14543.14		13C2-PFDA	6.205	133762	1.2137	ng/ml			
D9-NEtFOSE	9.411	314975	88178.05		13C4-PFOS	6.355	43792	27.3547	ng/ml			
D3-NMeFOSA	9.210	22116	9610.94		13C4-PFOS	6.355	43792	2.4903	ng/ml			
D3-NMeFOSAA	6.260	135451	27451.32		13C4-PFOS	6.355	43792	4.7747	ng/ml			
D5-NEtFOSA	9.555	23536	13397.85		13C4-PFOS	6.355	43792	2.5406	ng/ml			
D5-NEtFOSAA	6.463	66545	7726.78		13C4-PFOS	6.355	43792	4.6357	ng/ml			
D7-NMeFOSE	9.065	284088	112945.08		13C4-PFOS	6.355	43792	26.4002	ng/ml			

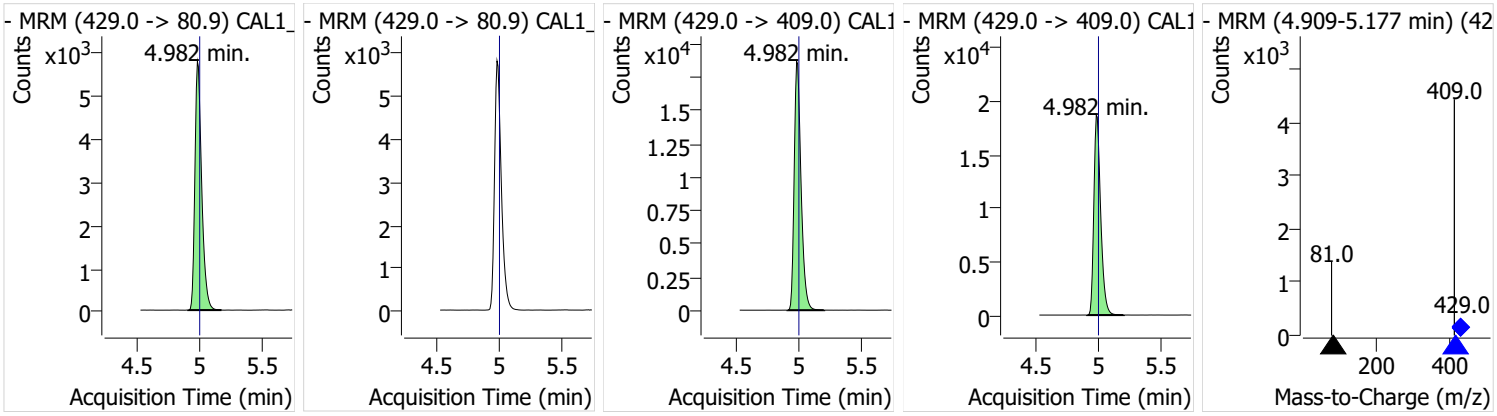
11Cl-PF3OUdS



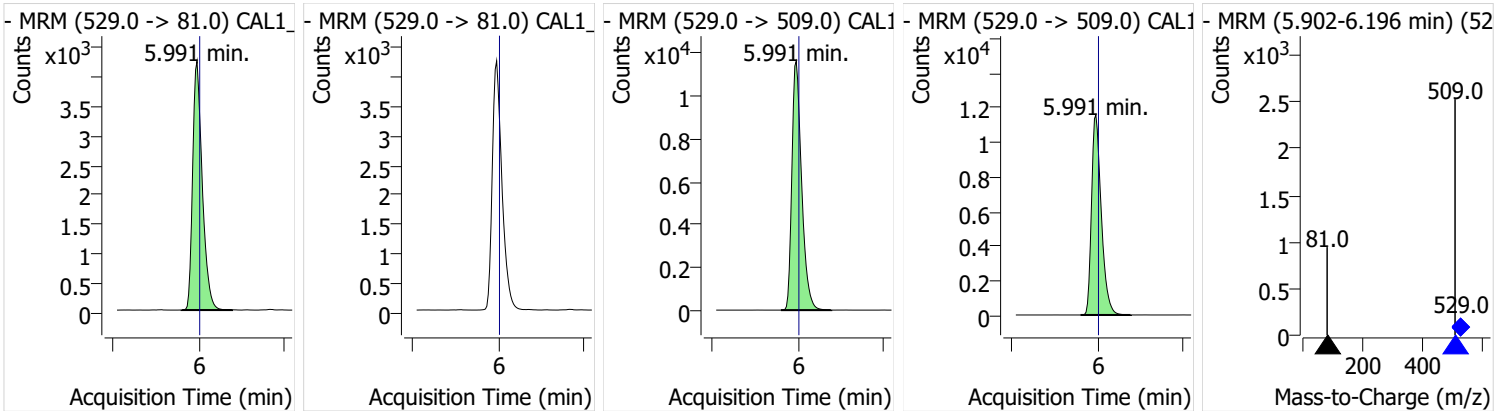
13C2-4:2FTS - ISTD



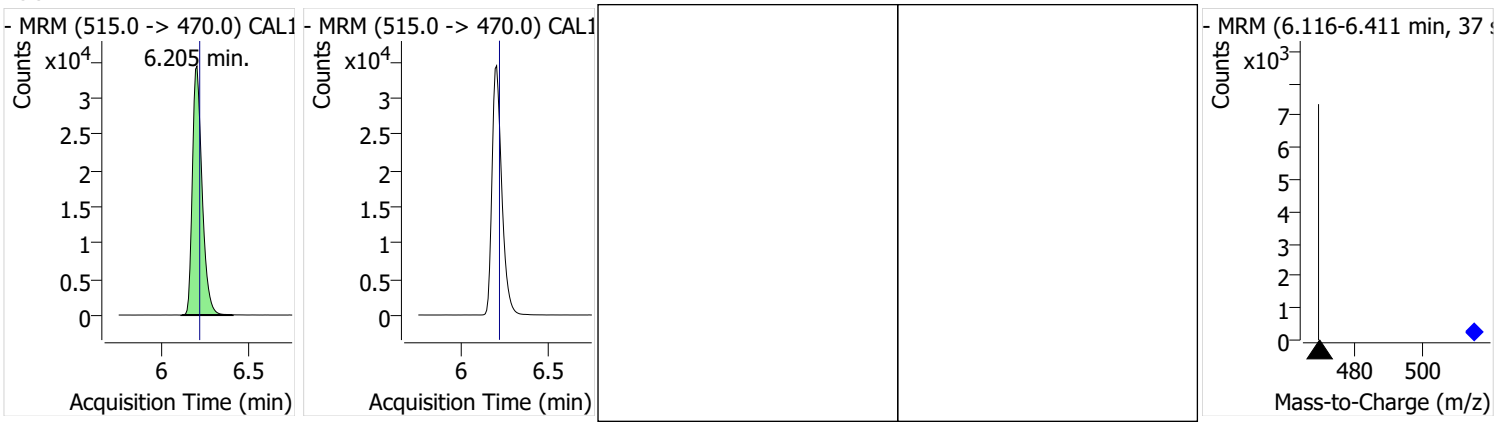
13C2-6:2FTS - ISTD



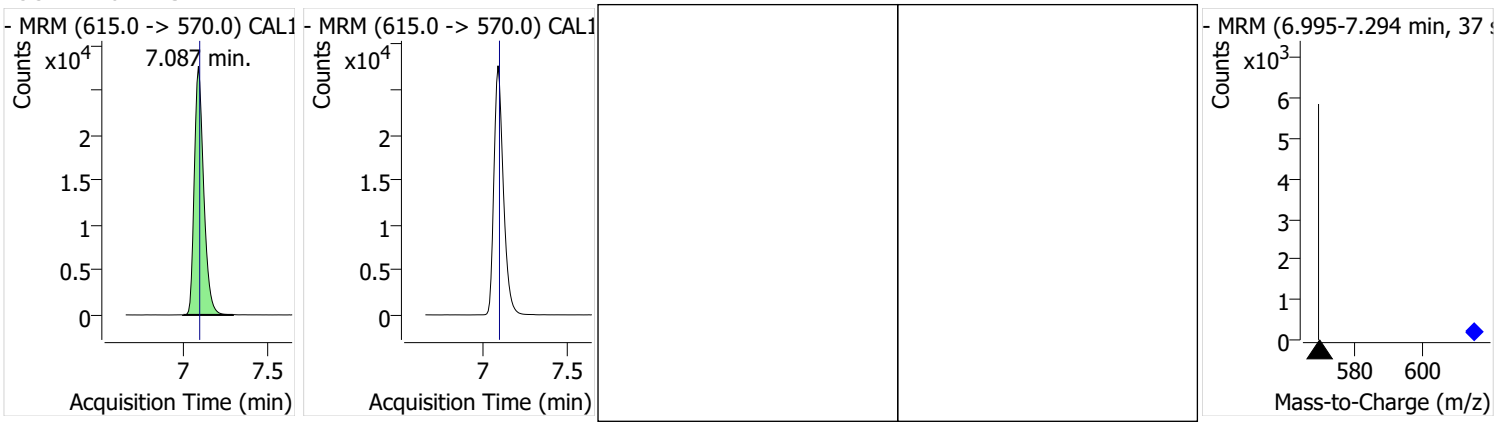
13C2-8:2FTS - ISTD



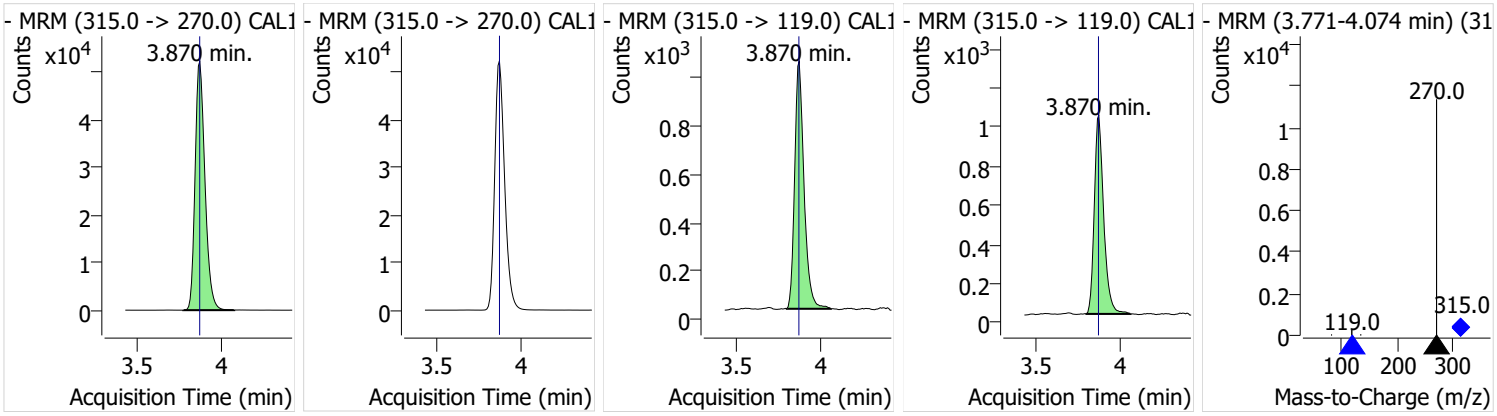
13C2-PFDA



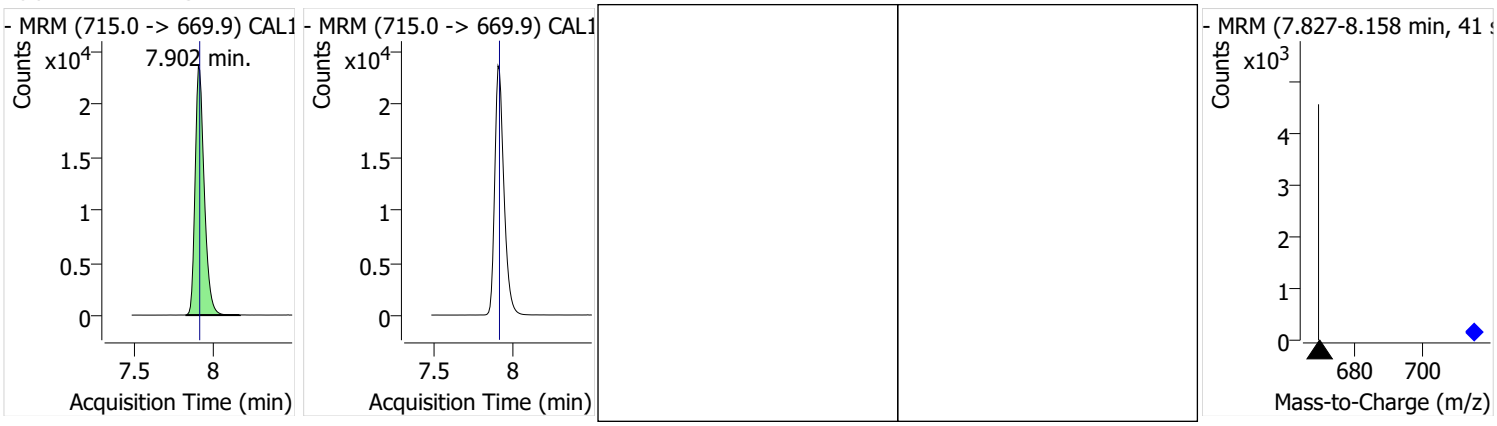
13C2-PFDoA - ISTD



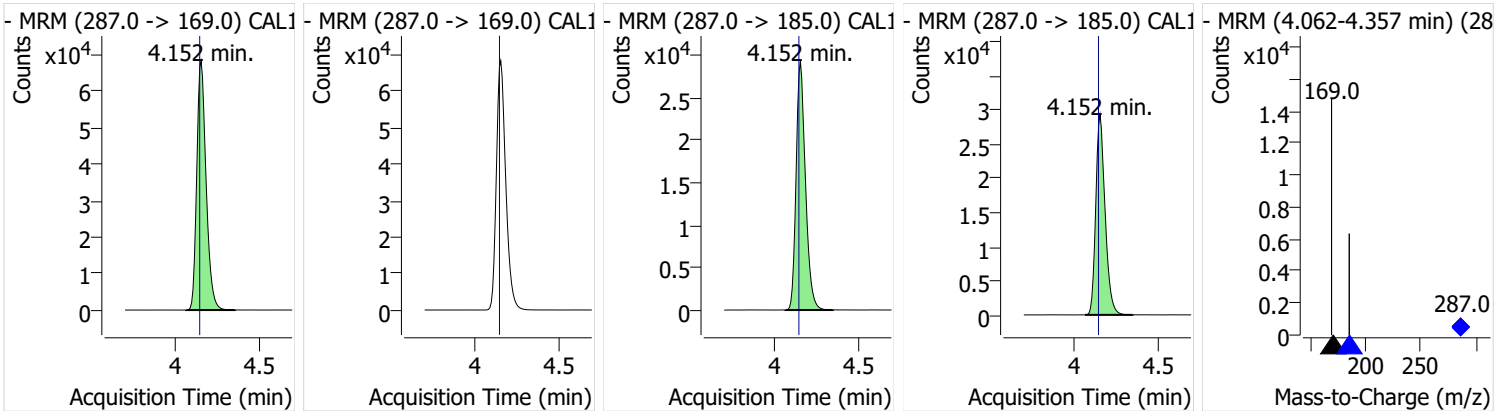
13C2-PFHxA



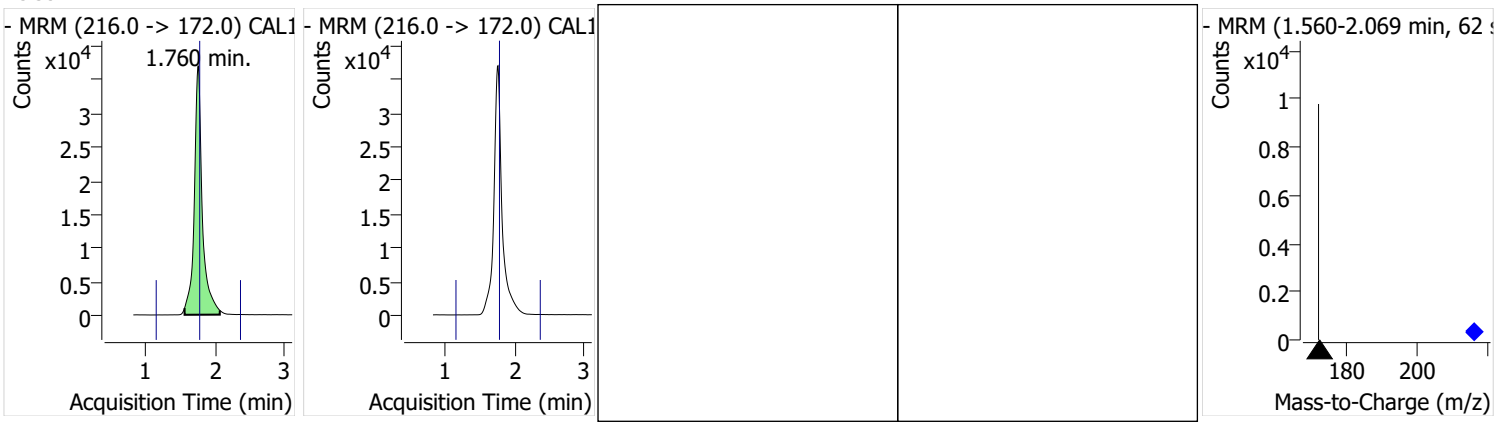
13C2-PFTeDA - ISTD



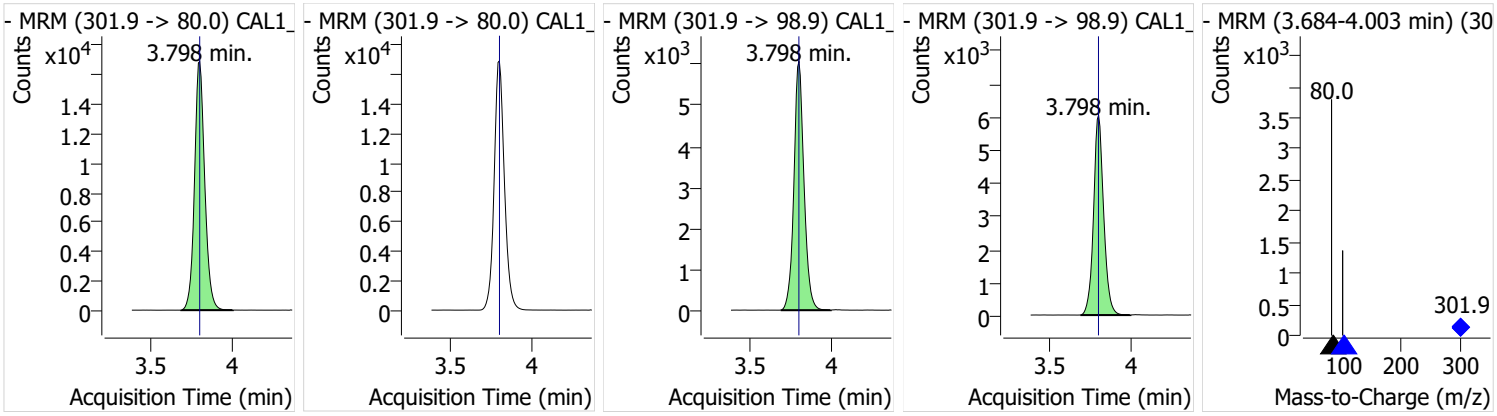
13C3-HFPODA - ISTD



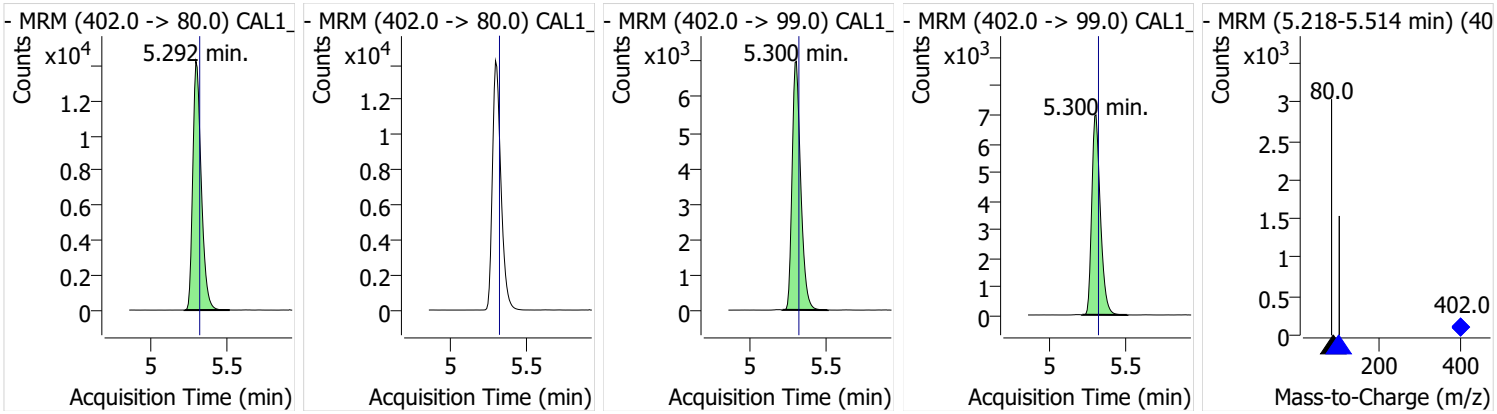
13C3-PFBA



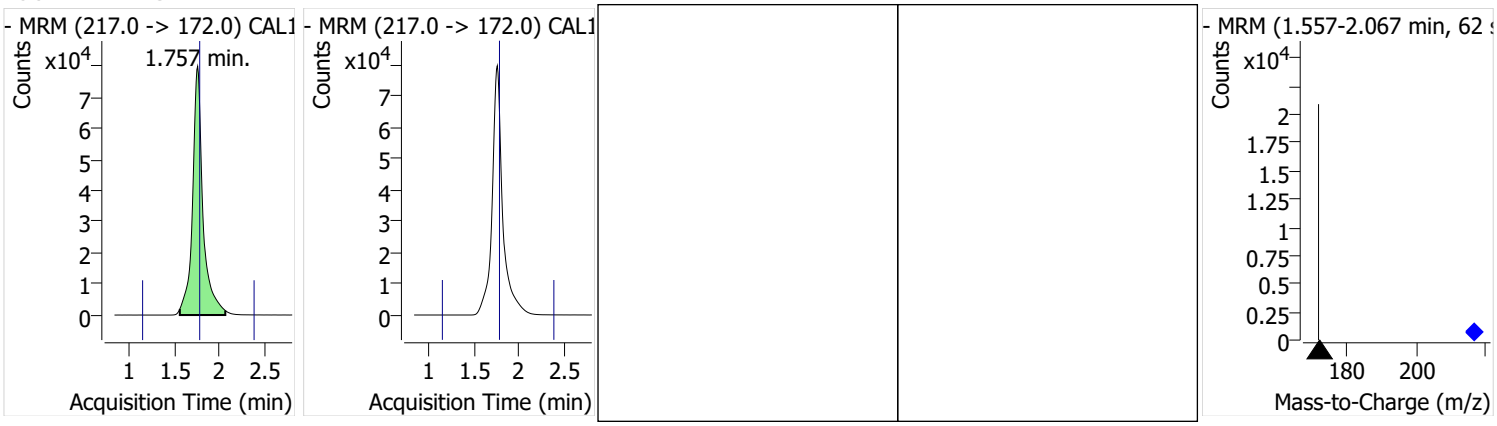
13C3-PFBS - ISTD



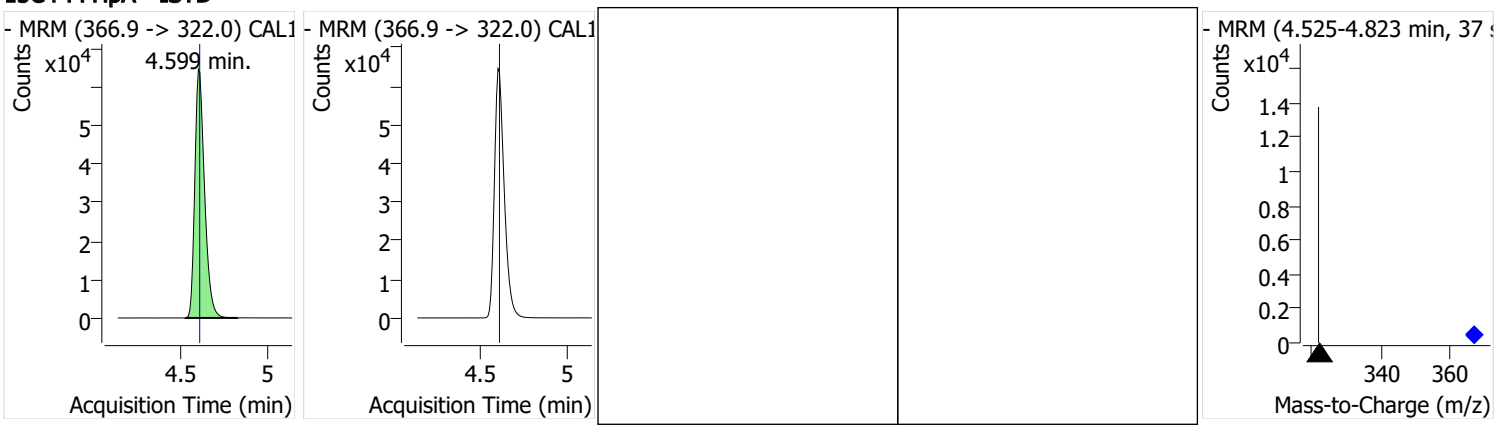
13C3-PFHxS - ISTD



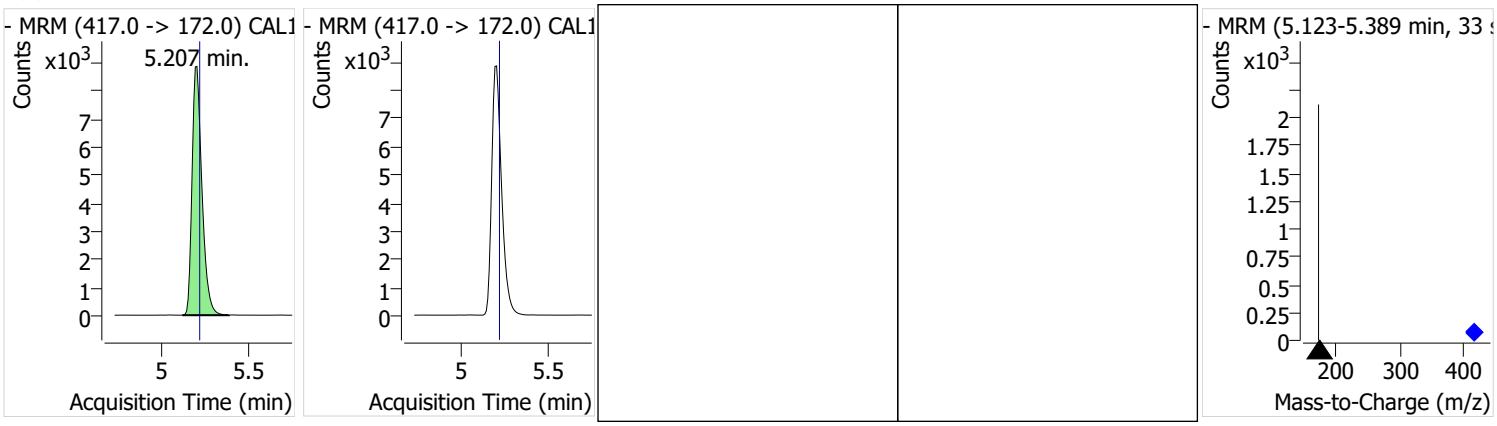
13C4-PFBA - ISTD



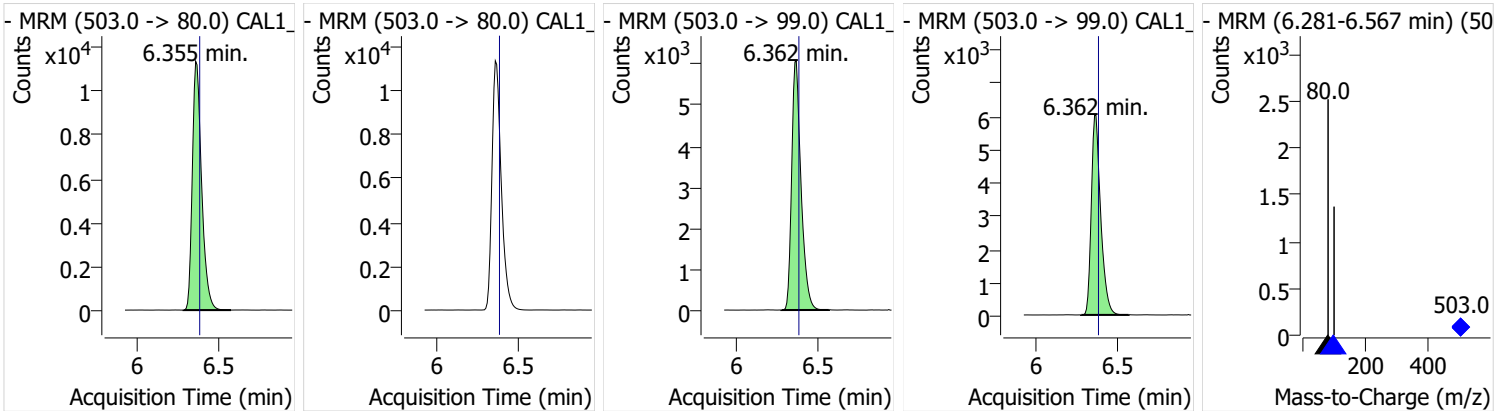
13C4-PFHpA - ISTD



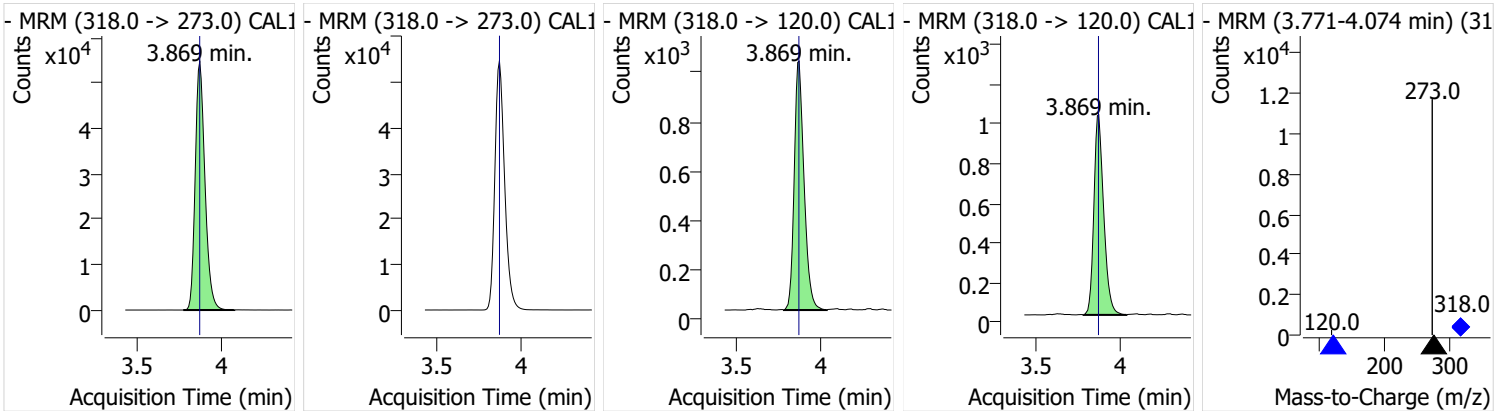
13C4-PFOA



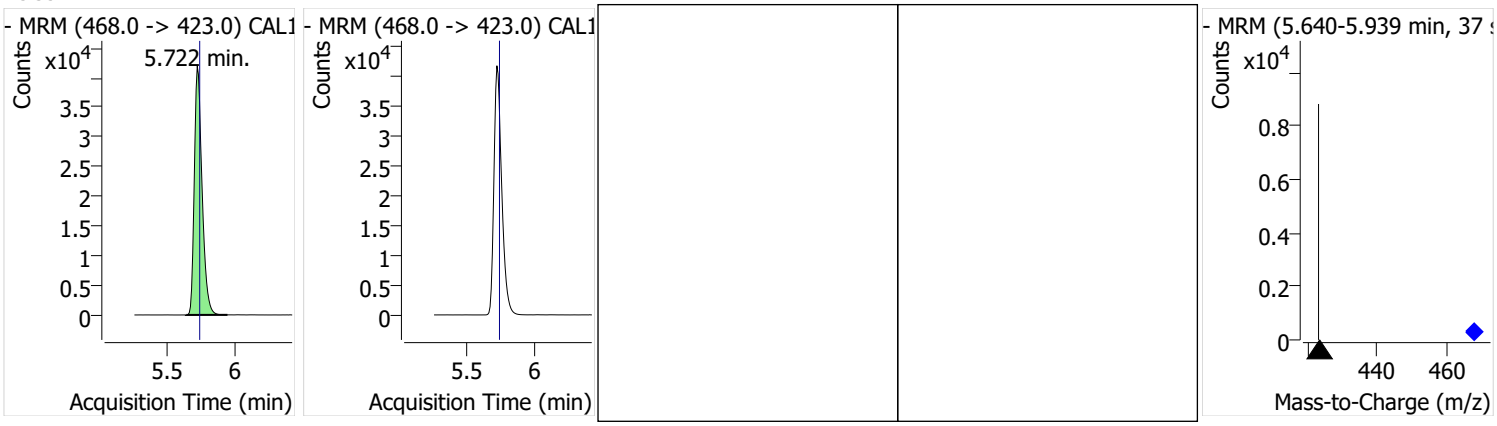
13C4-PFOS



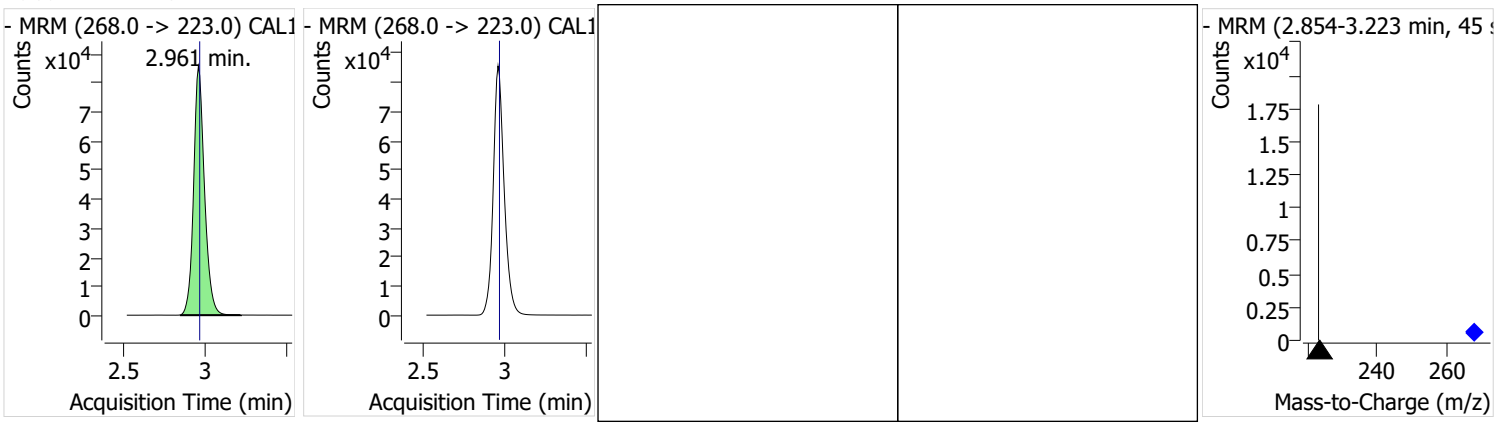
13C5-PFHxA - ISTD



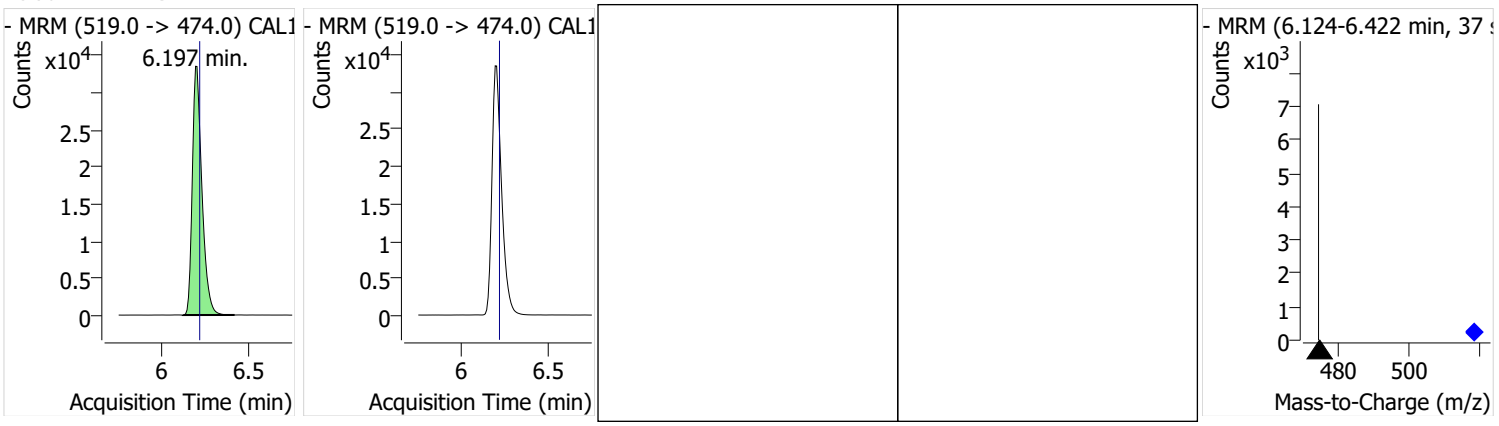
13C5-PFNA



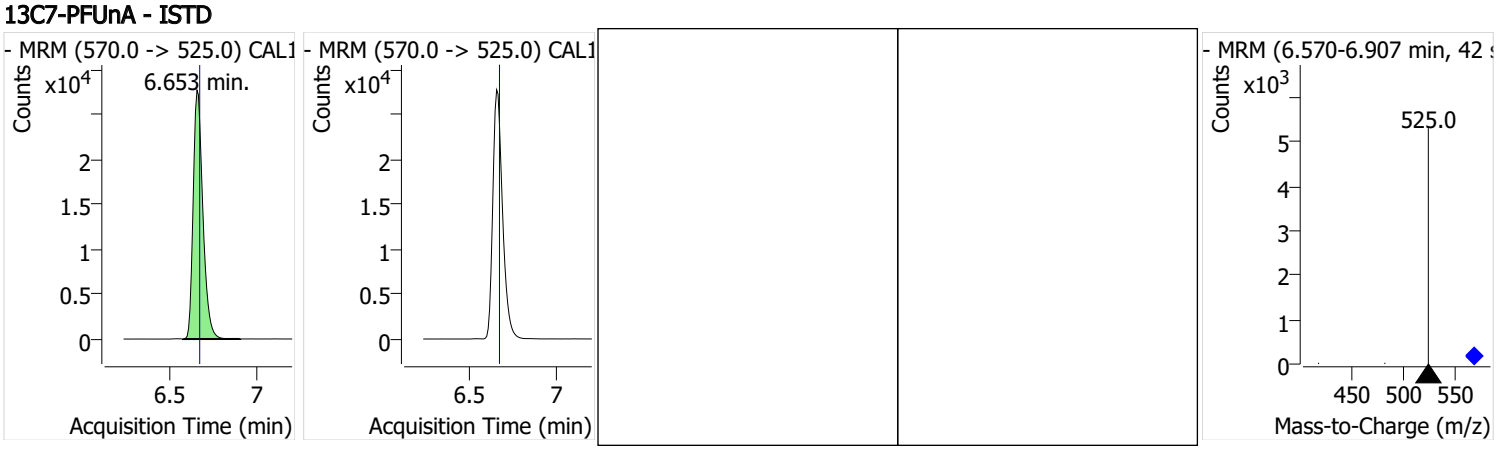
13C5-PFPeA - ISTD



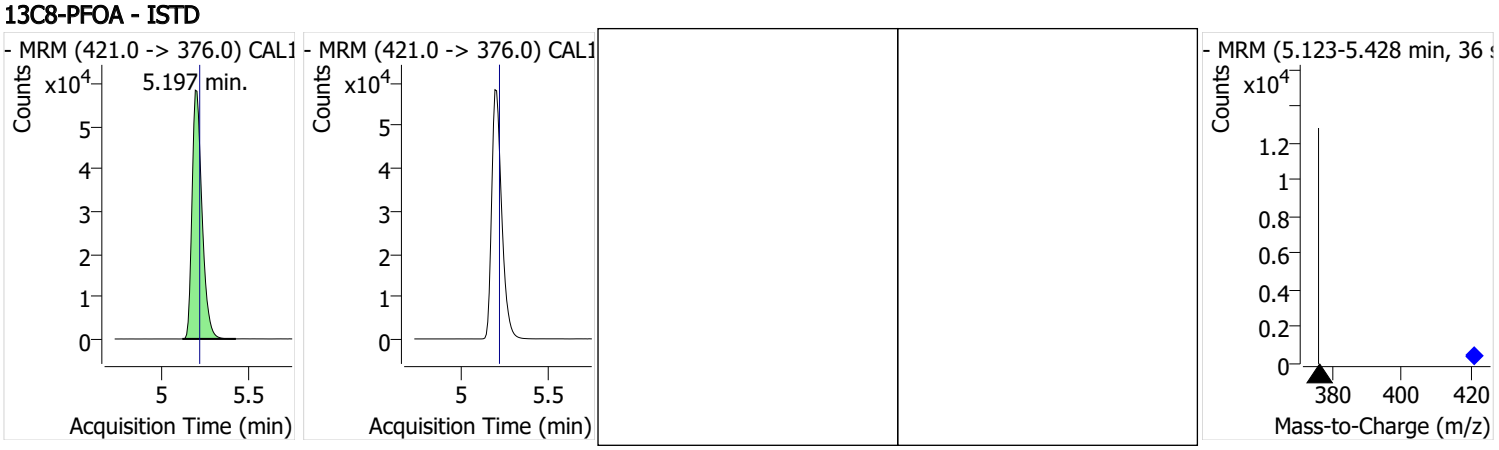
13C6-PFDA - ISTD



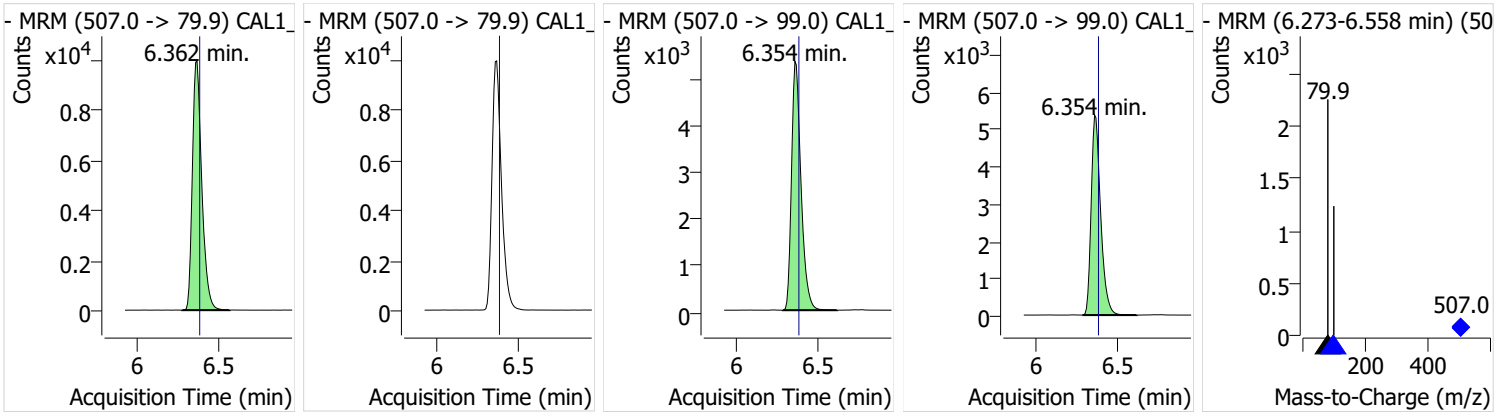
13C7-PFUnA - ISTD



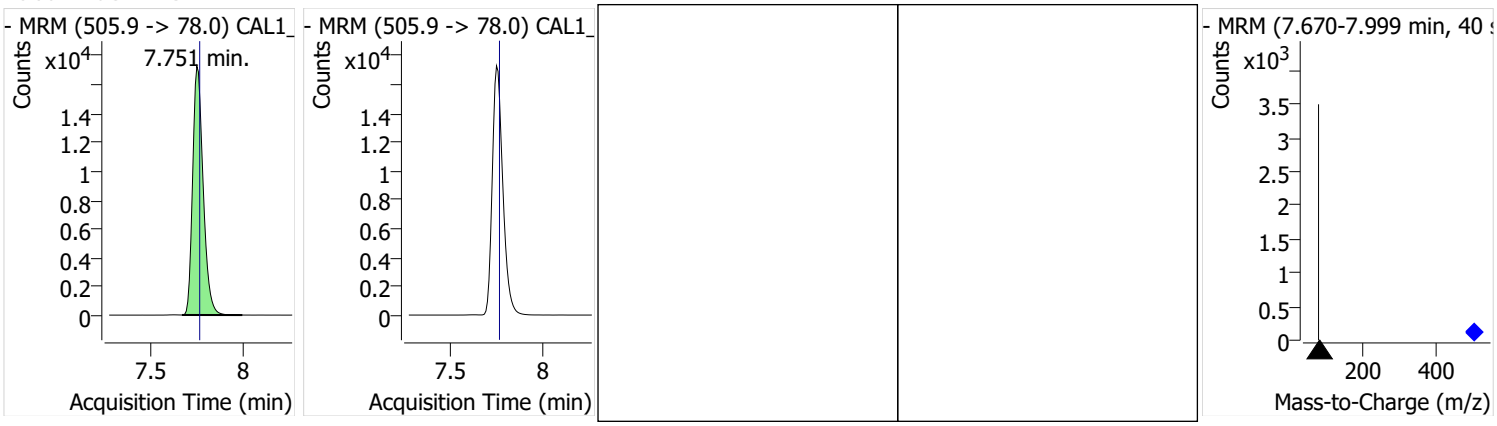
13C8-PFOA - ISTD



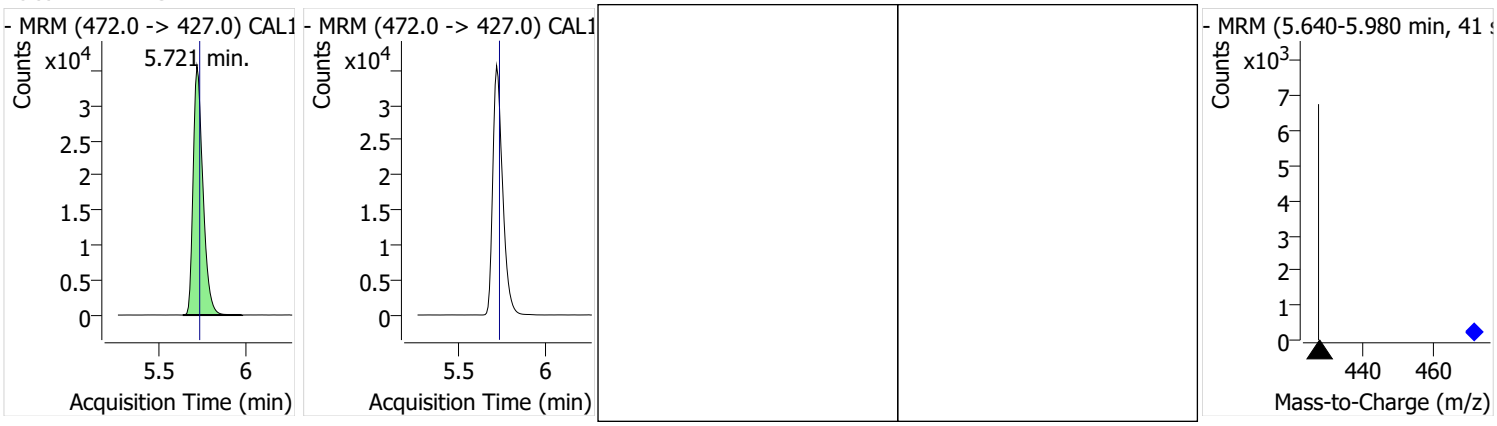
13C8-PFOS - ISTD



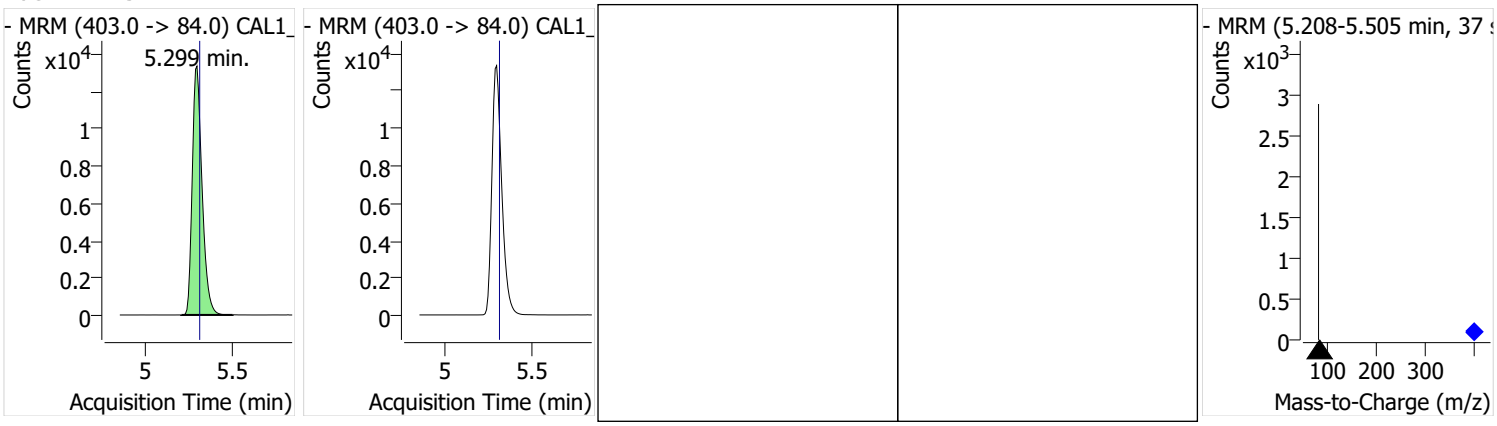
13C8-PFOSA - ISTD



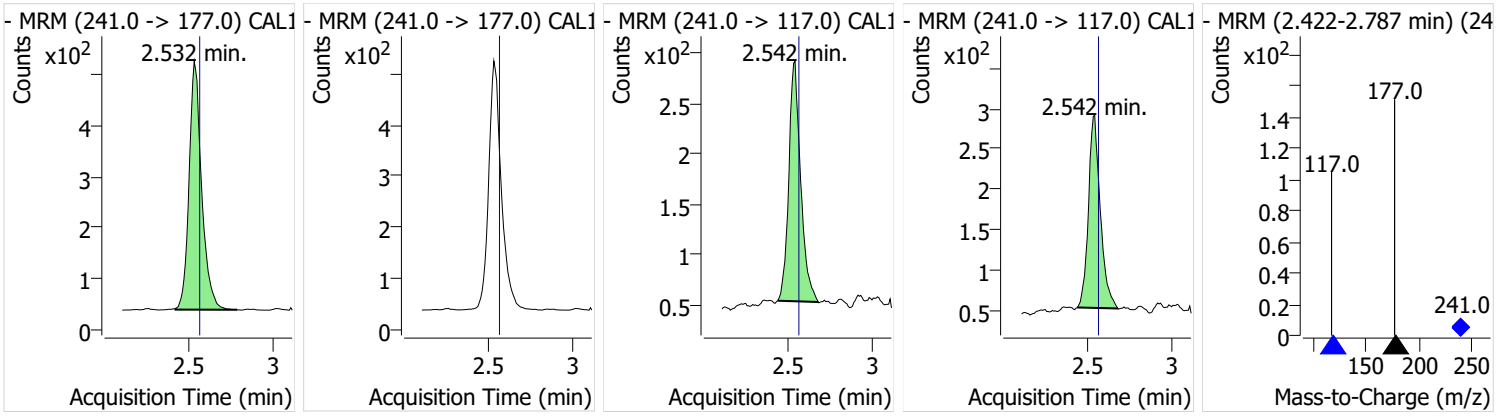
13C9-PFNA - ISTD



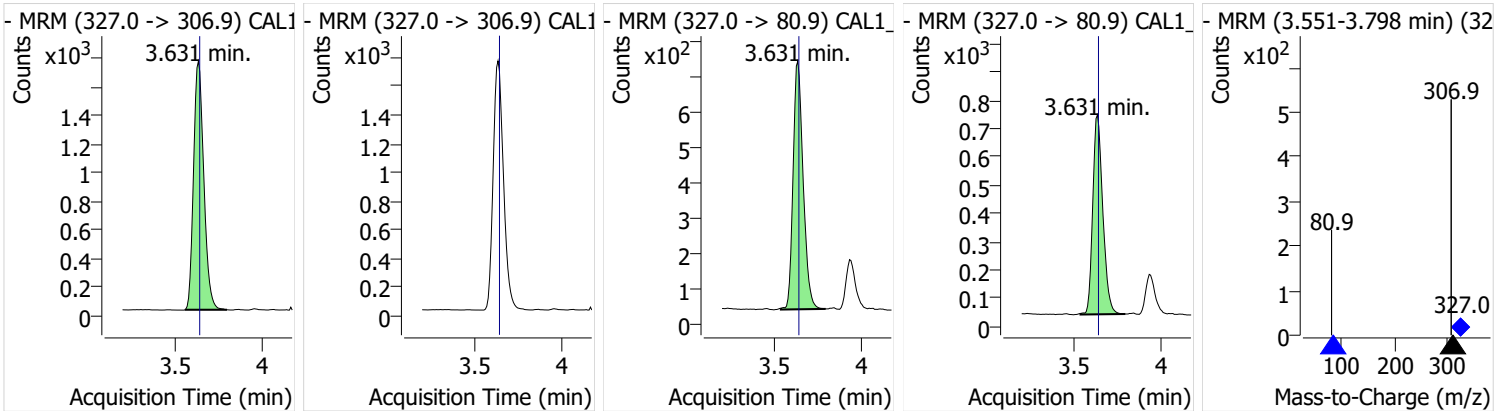
18O2-PFHxS



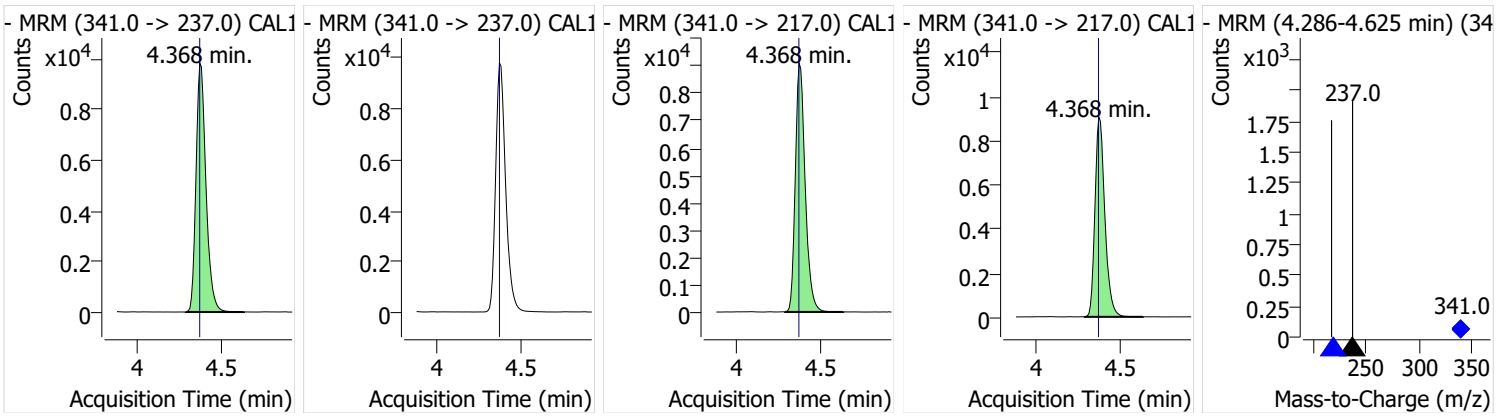
3:3FTCA



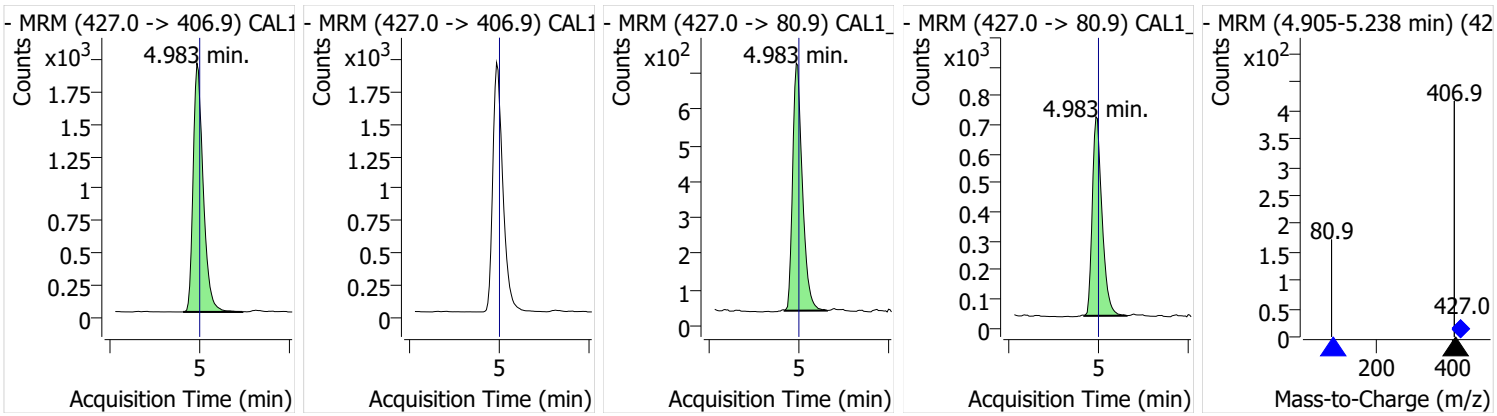
4:2FTS



5:3FTCA



6:2FTS



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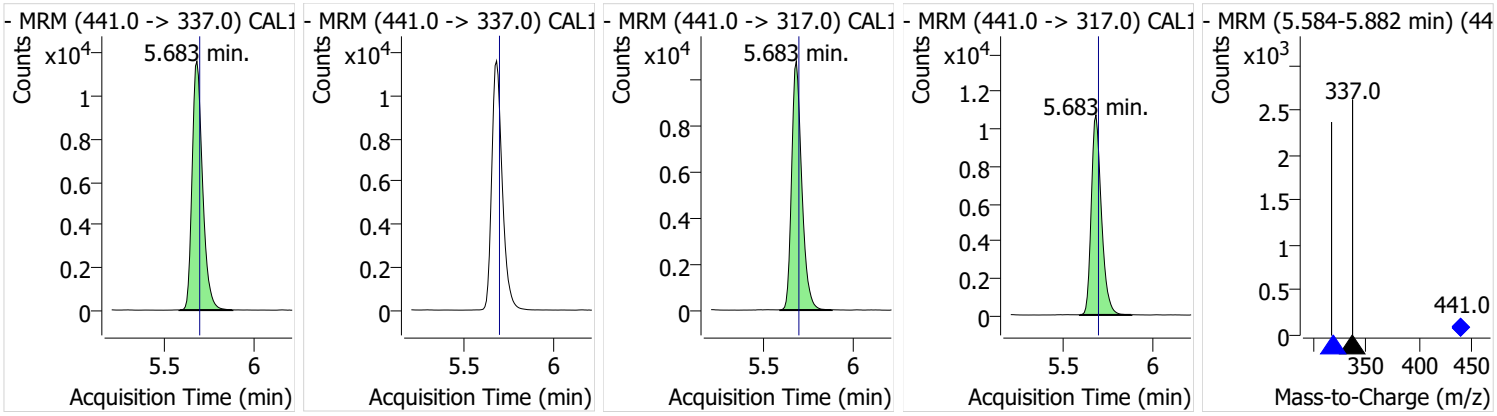

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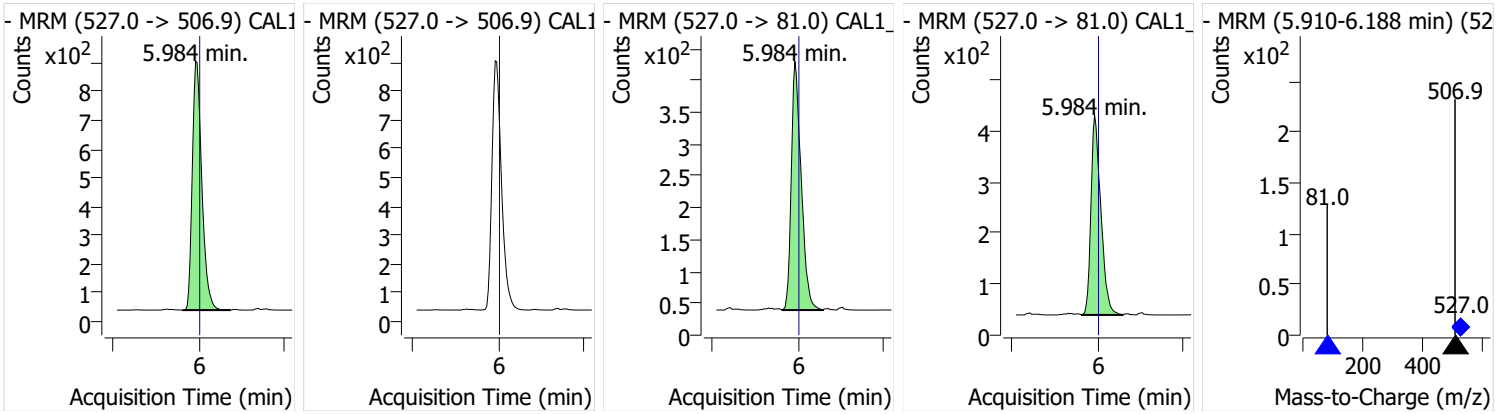
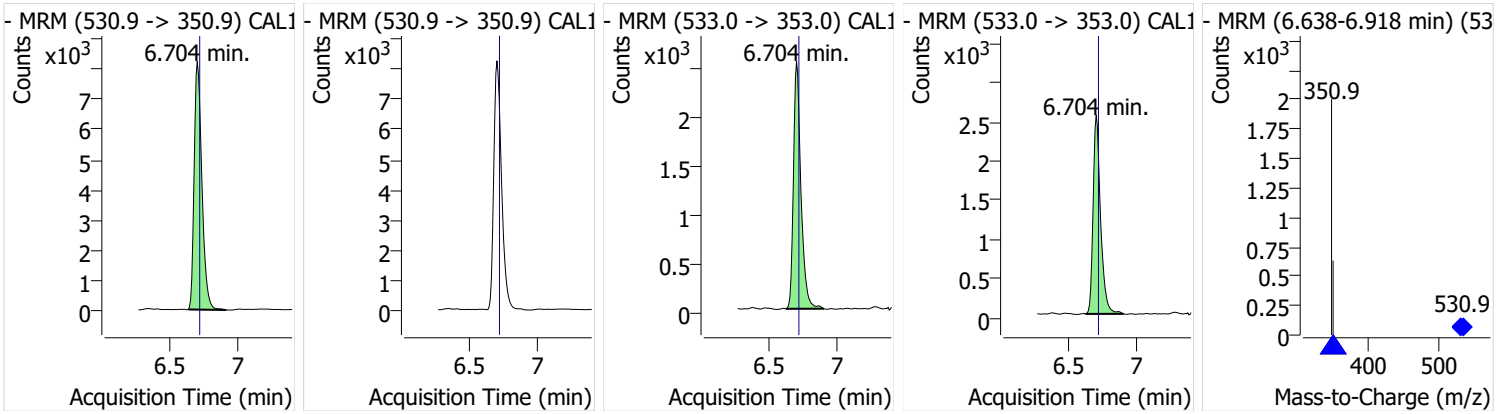


9Cl-PF3ONS



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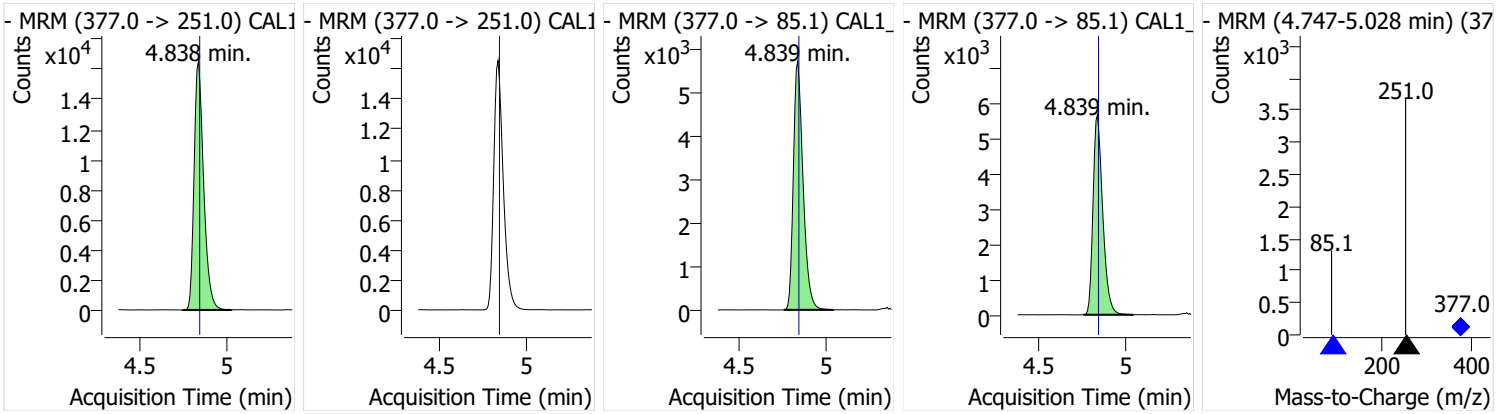

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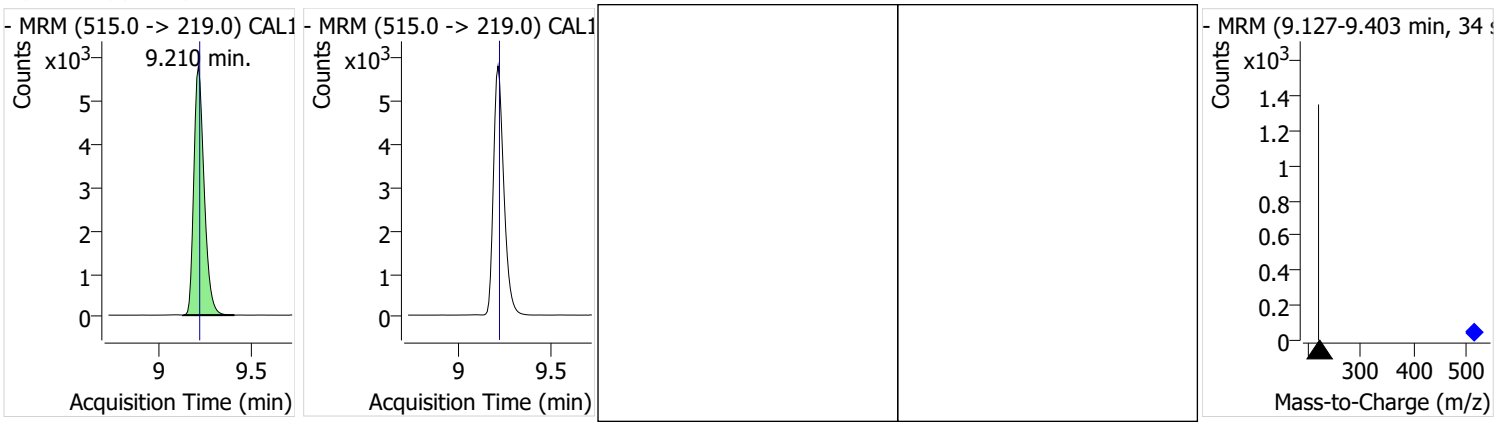

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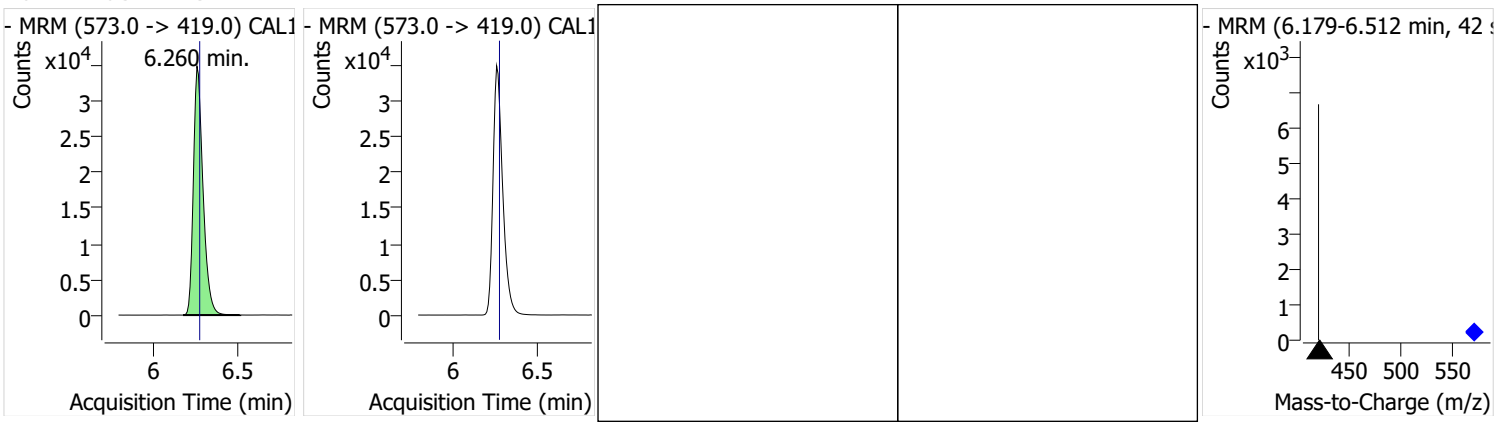

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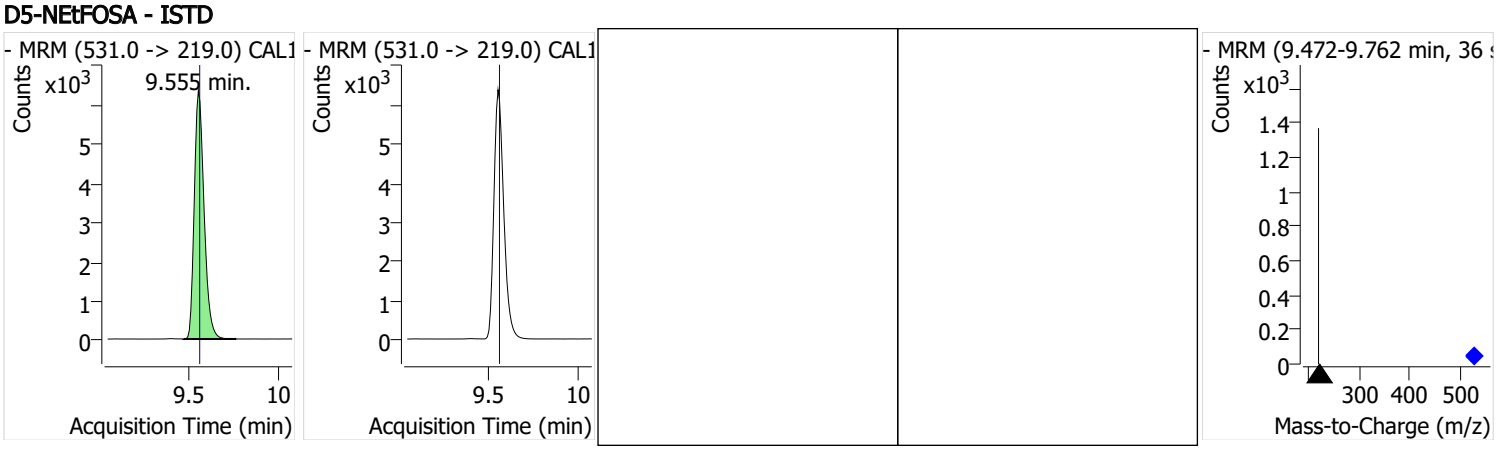

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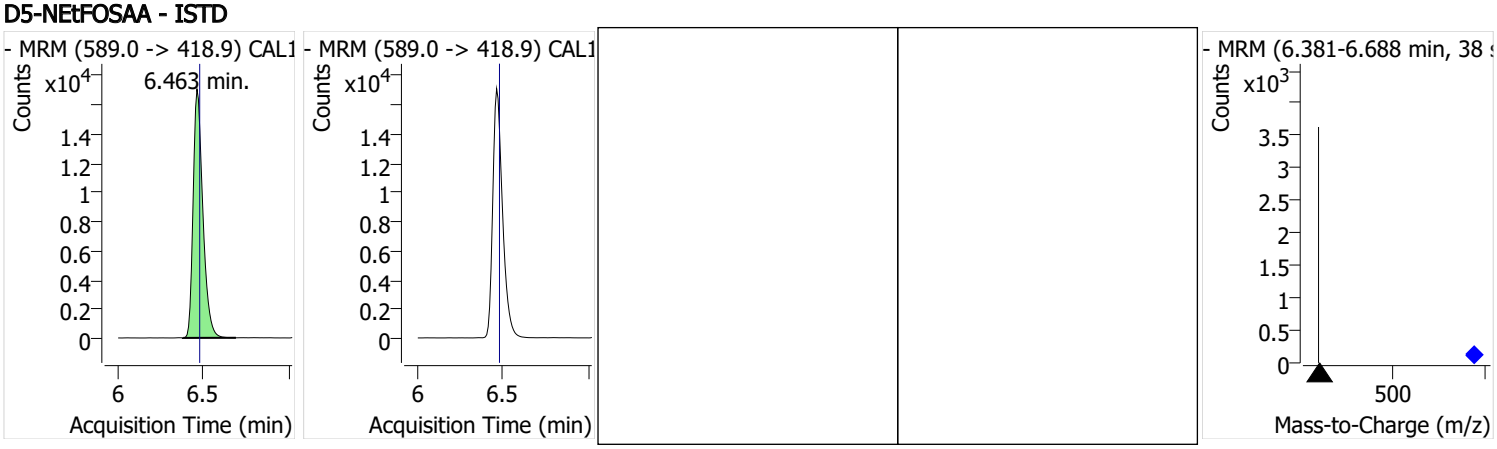

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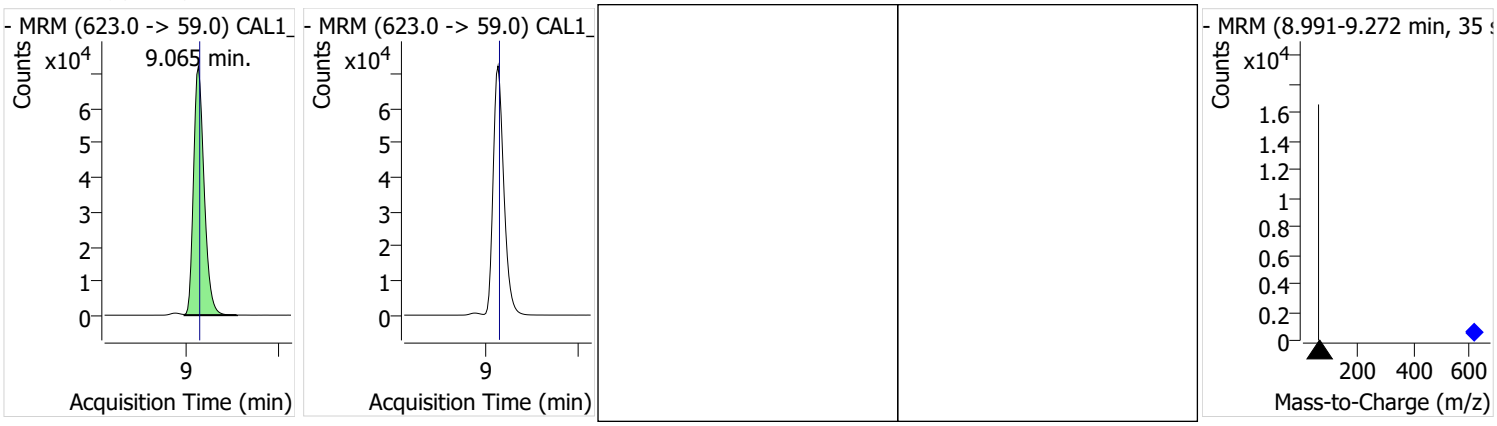

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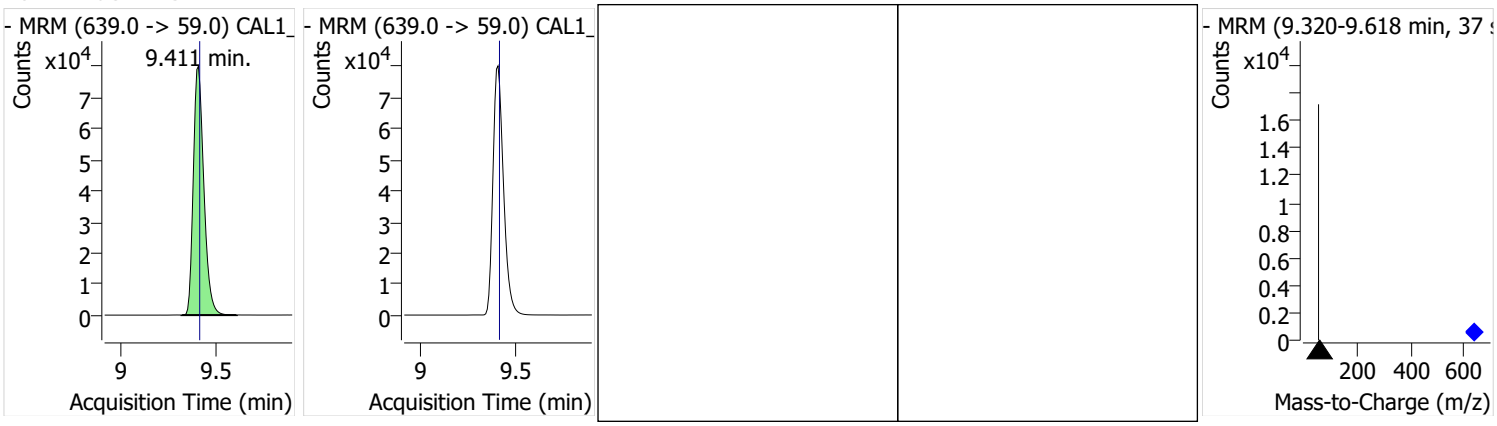

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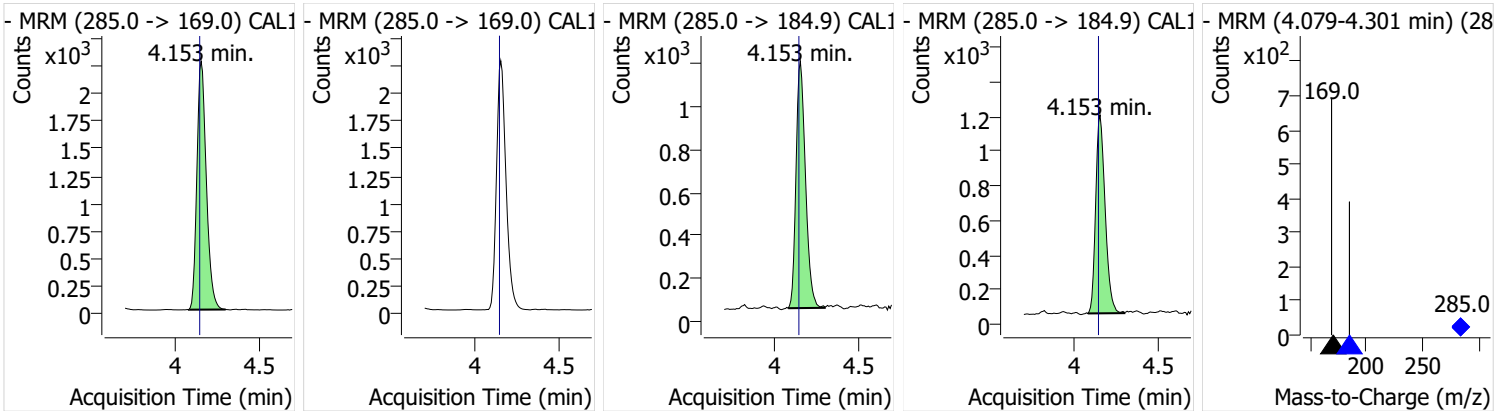

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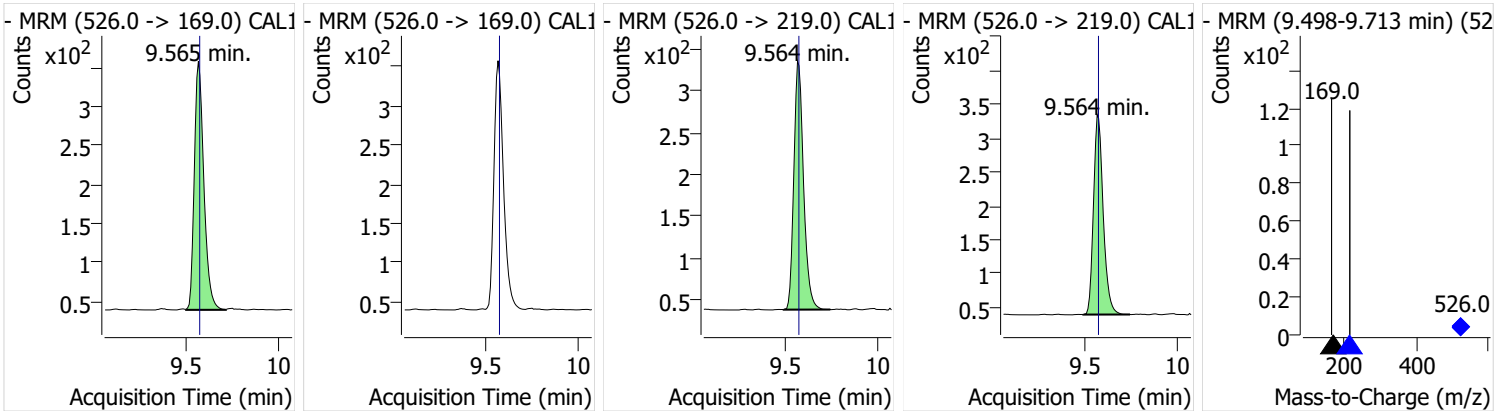

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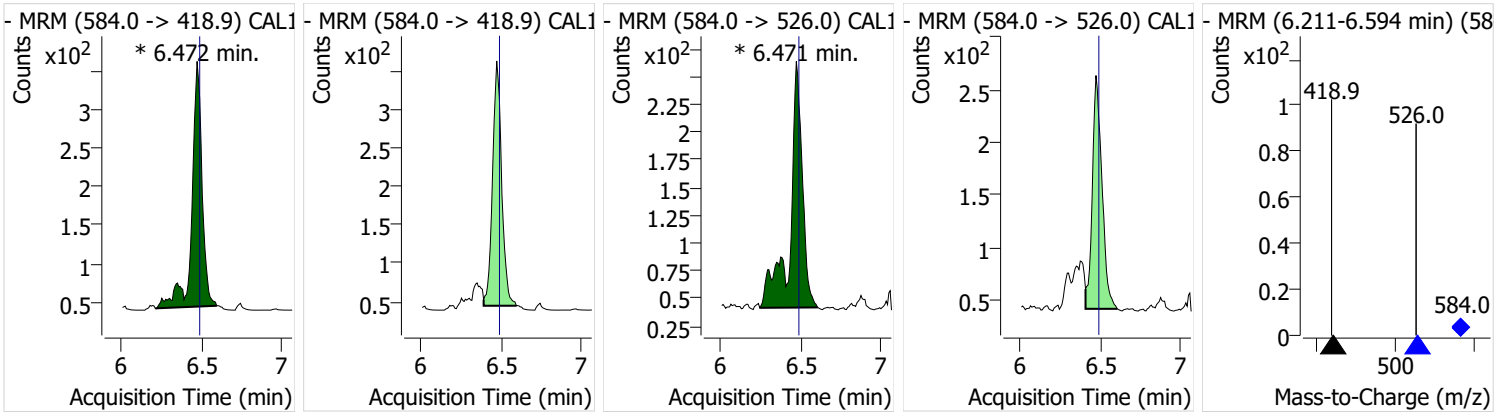

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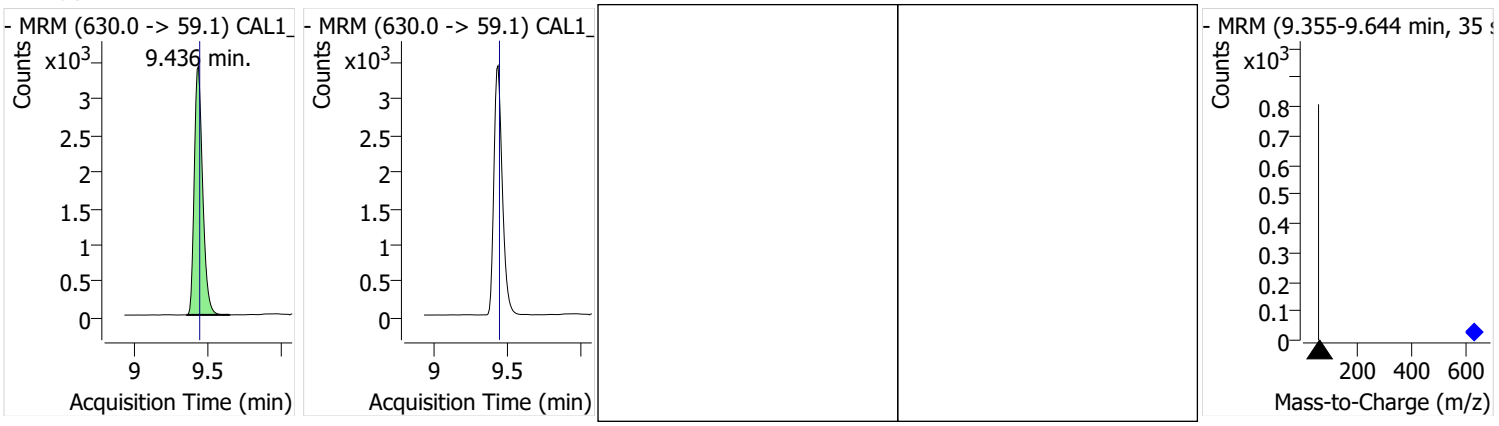

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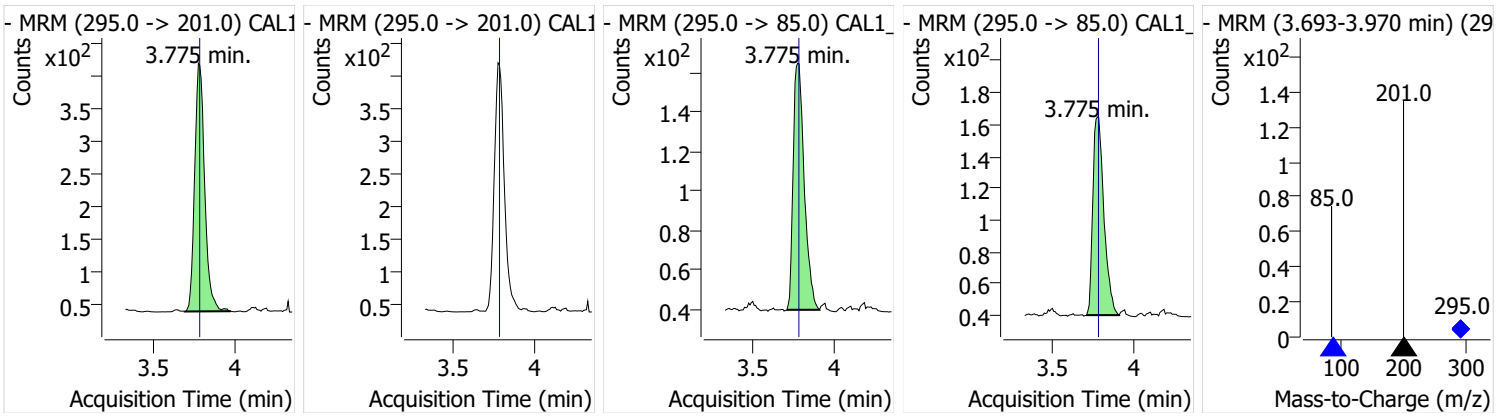

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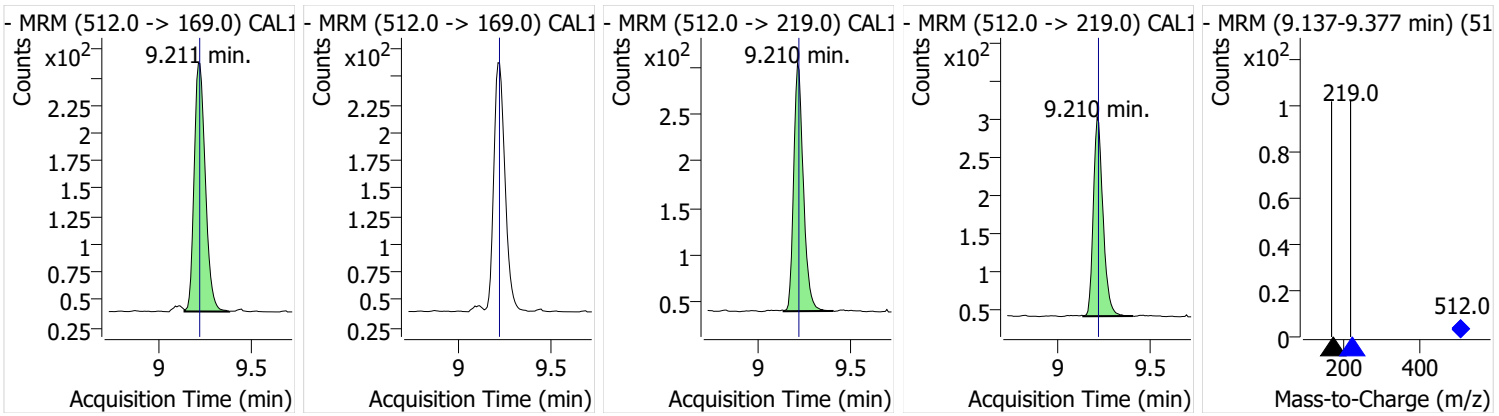

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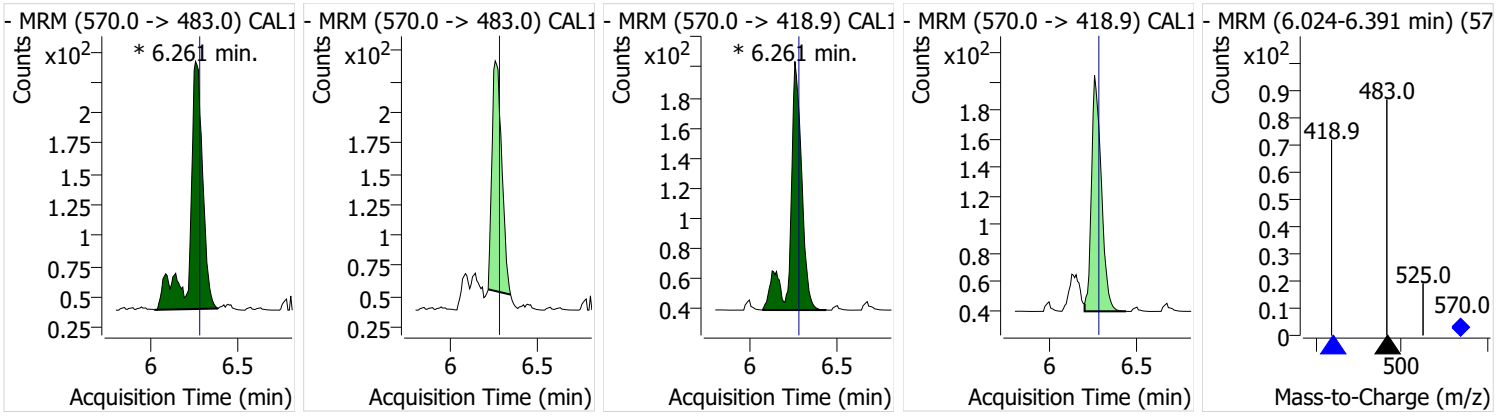

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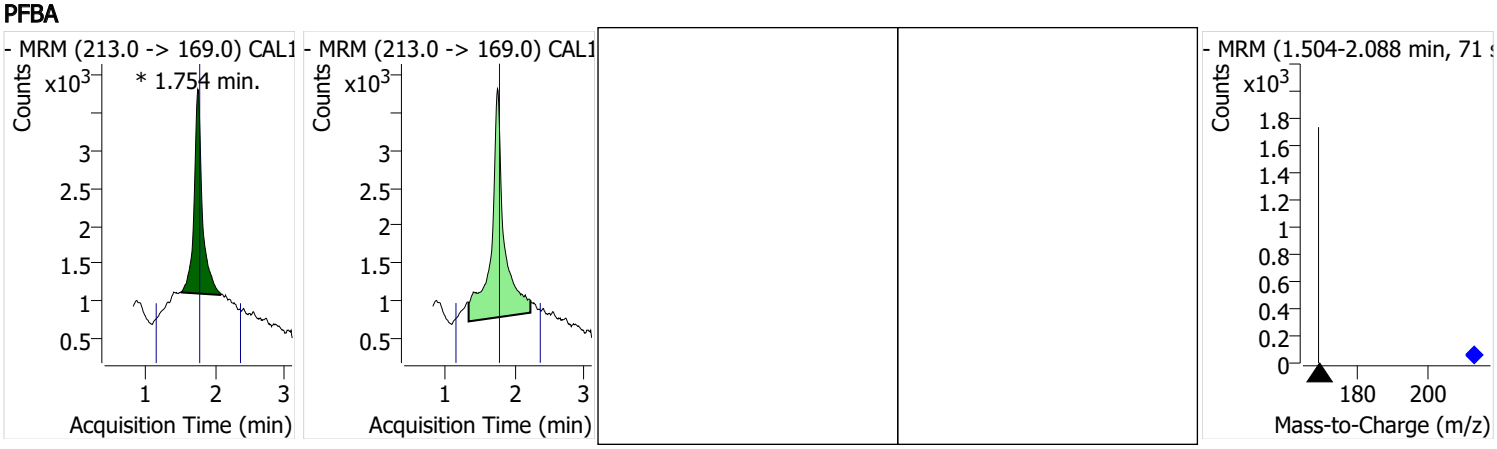

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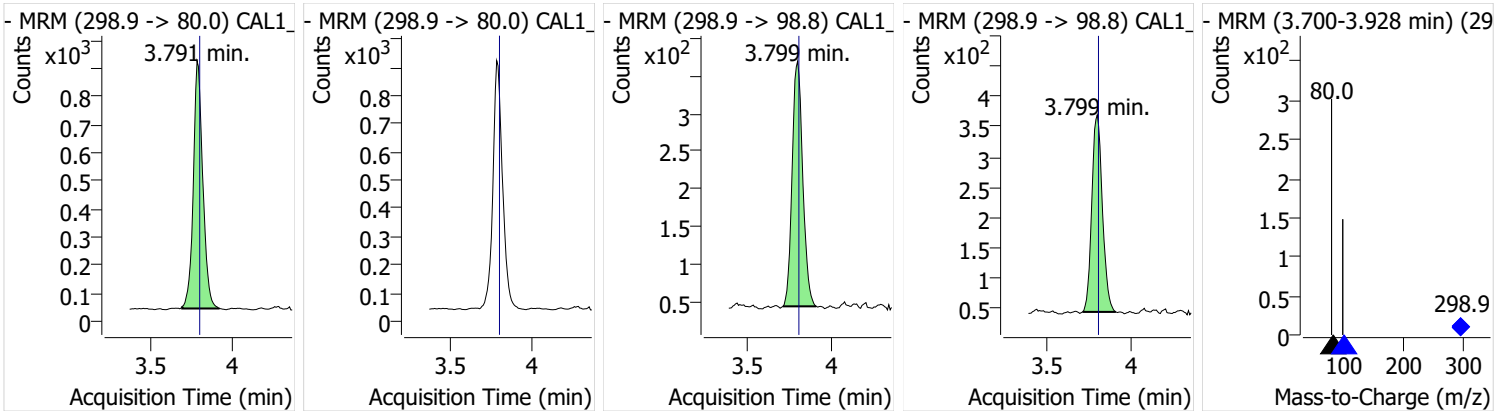

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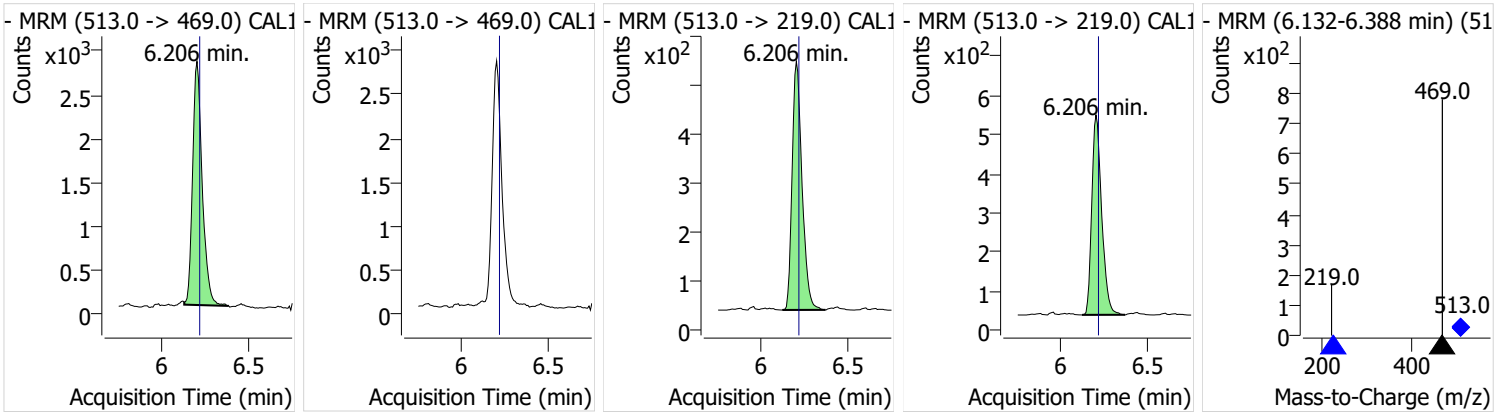

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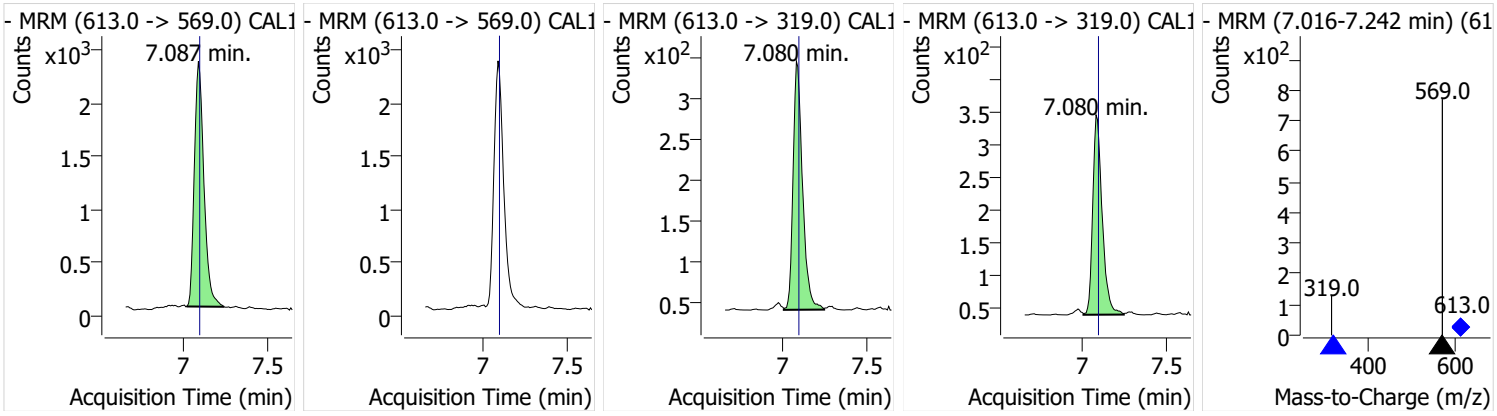

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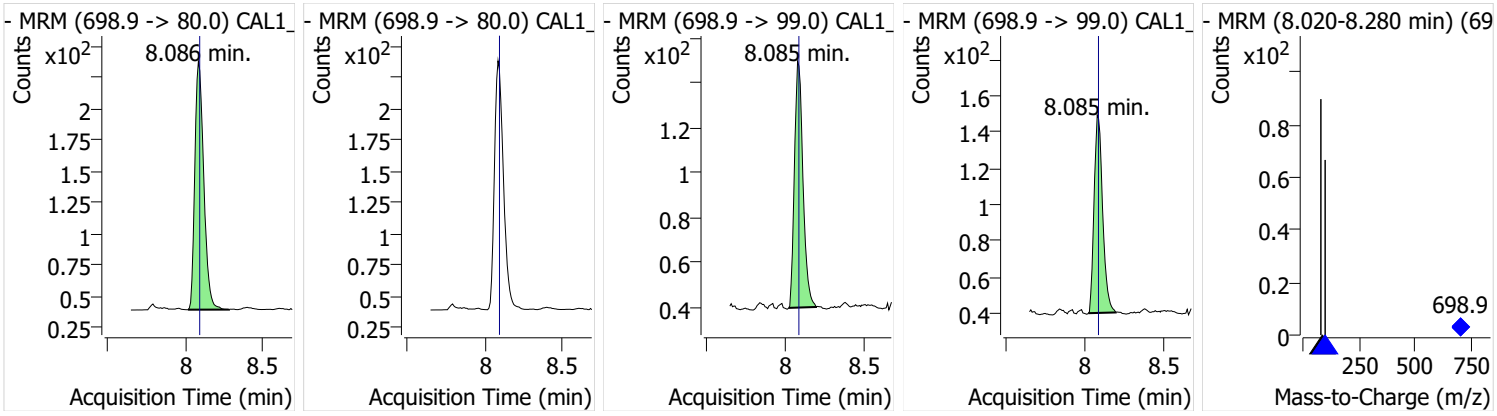

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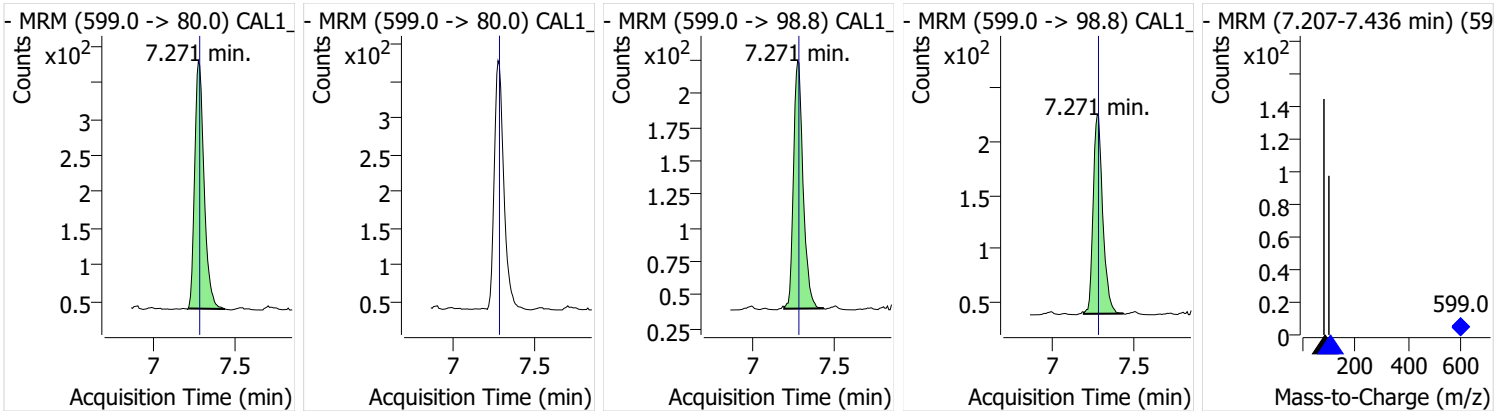

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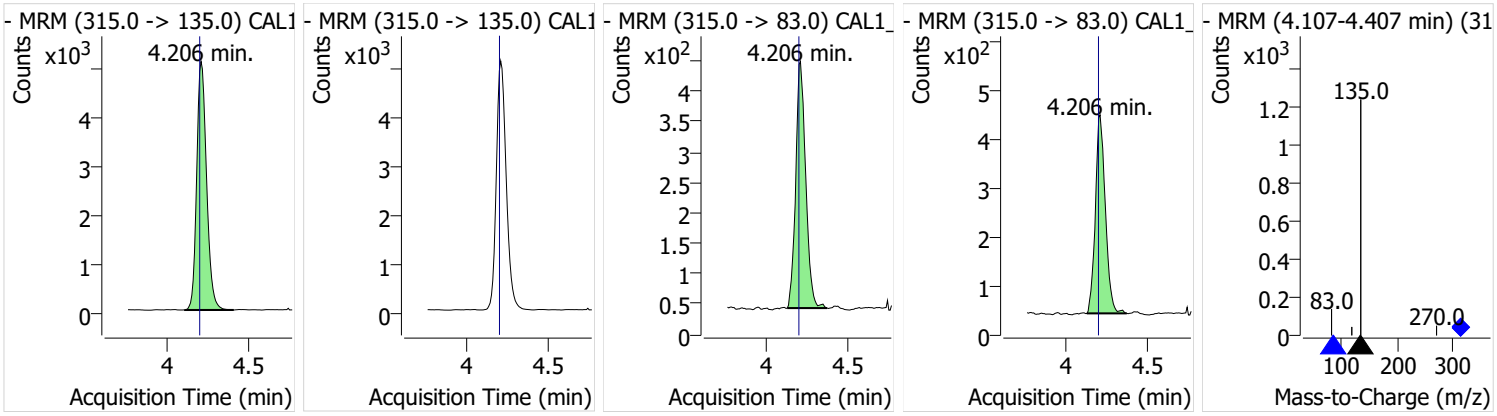

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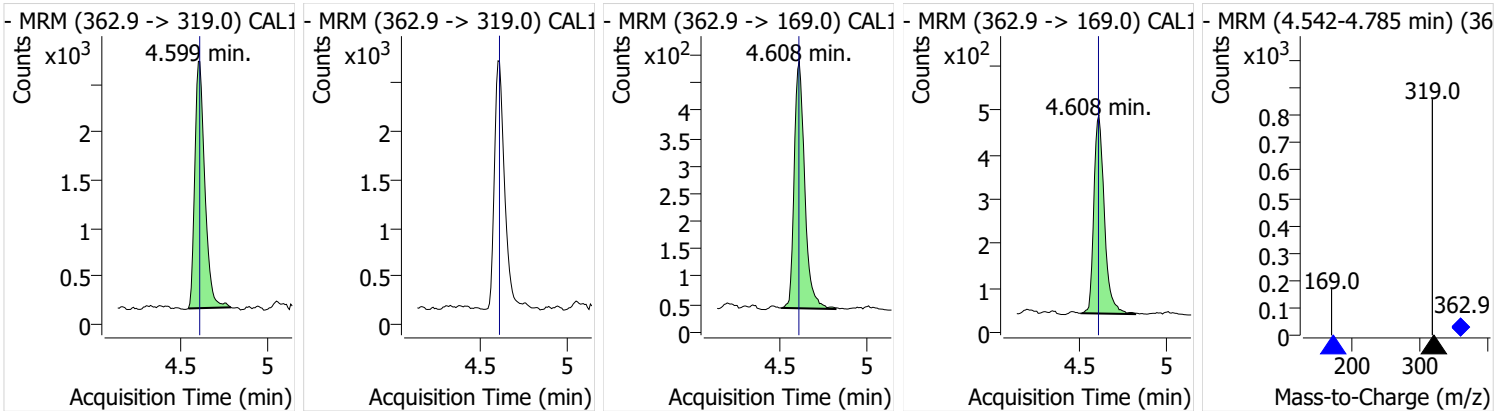

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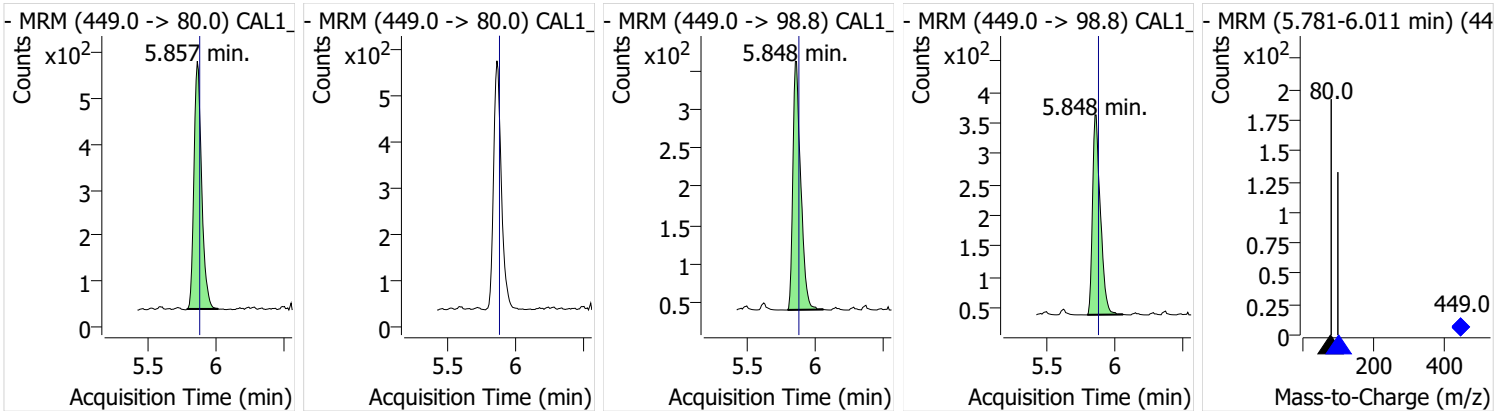

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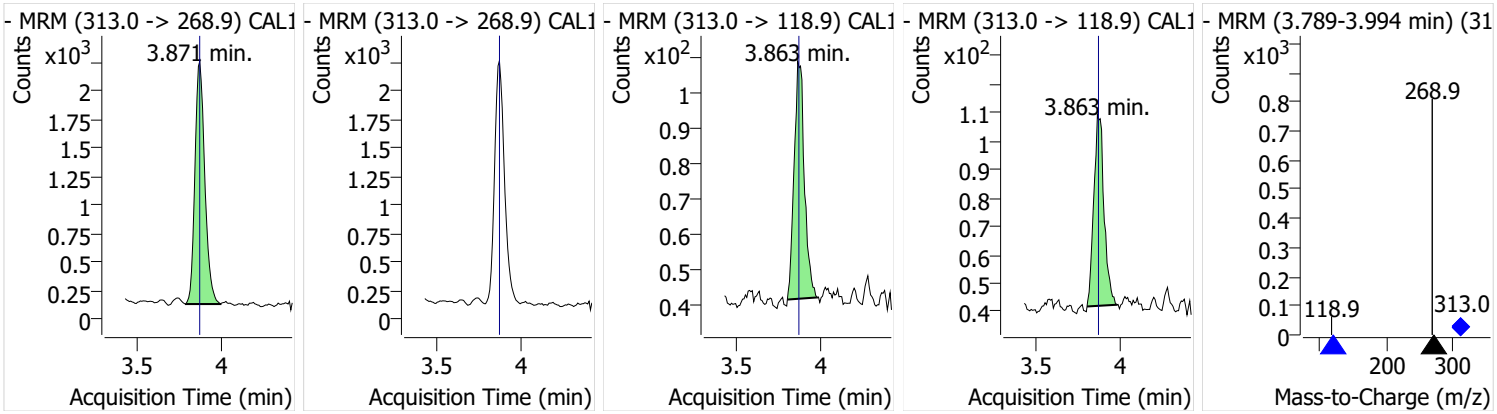

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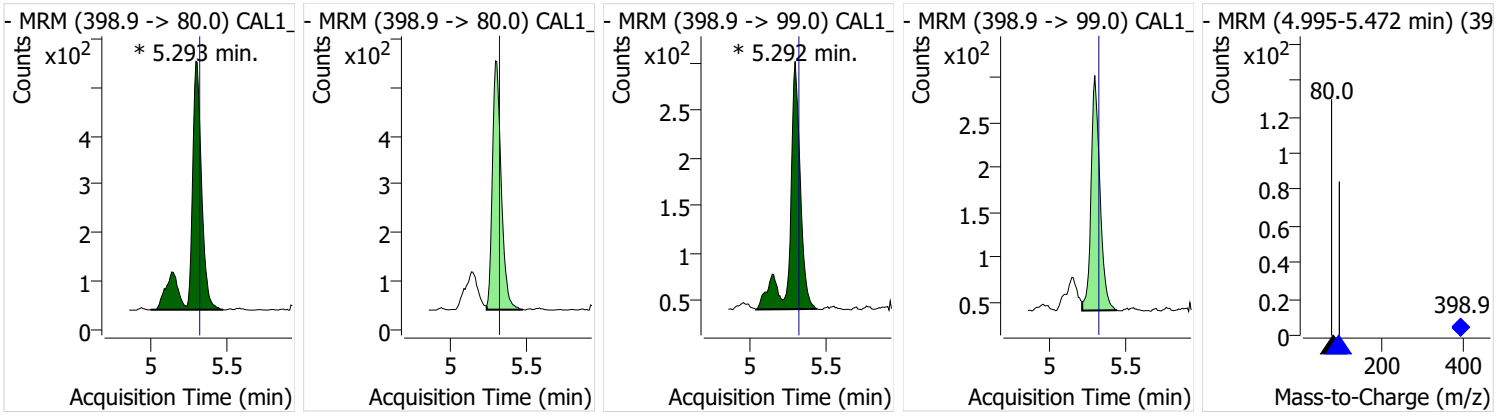

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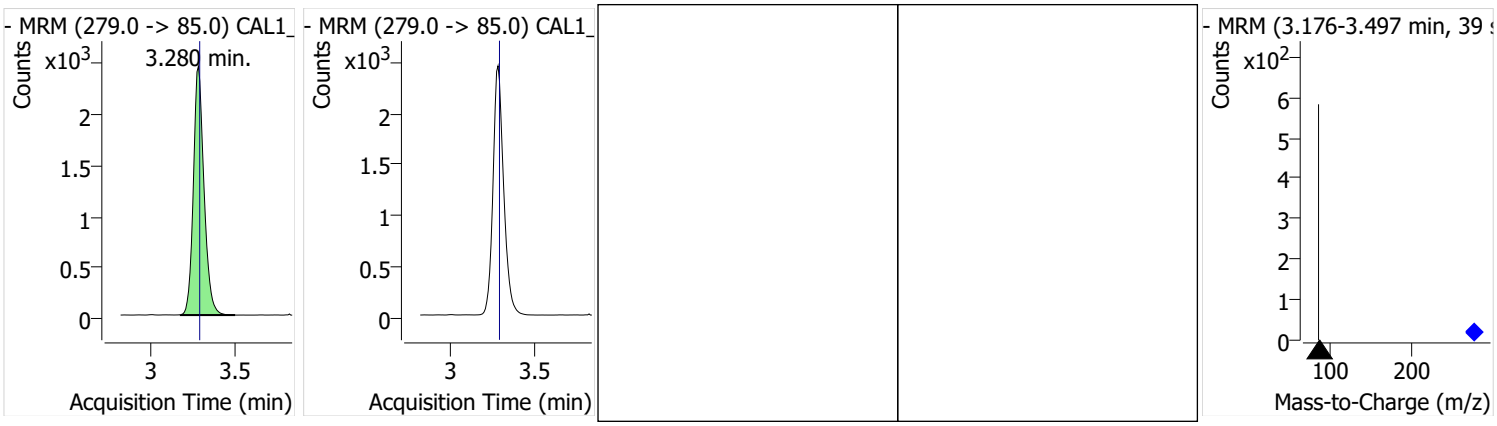

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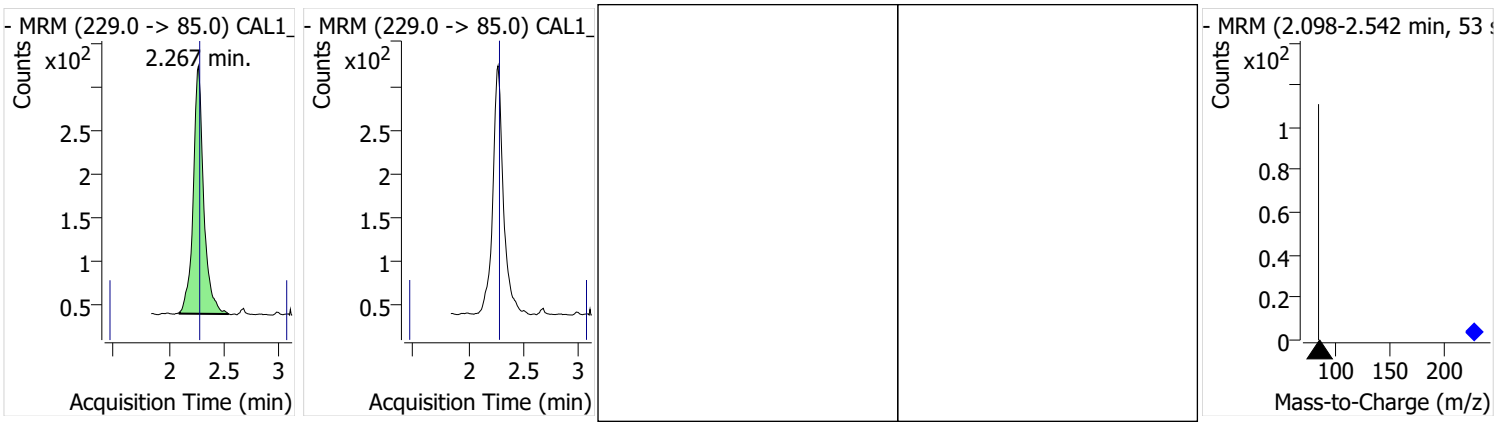

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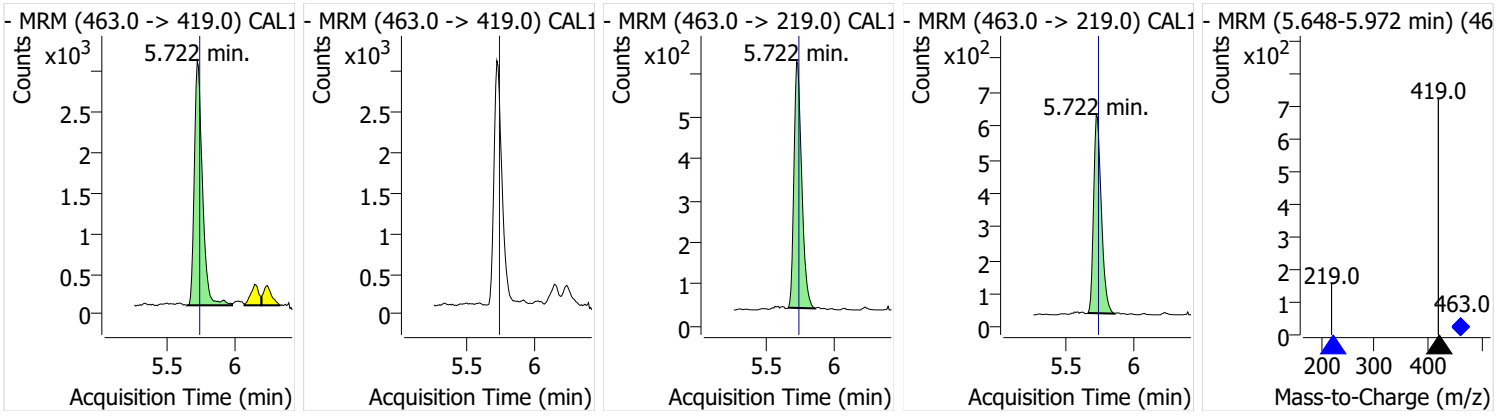

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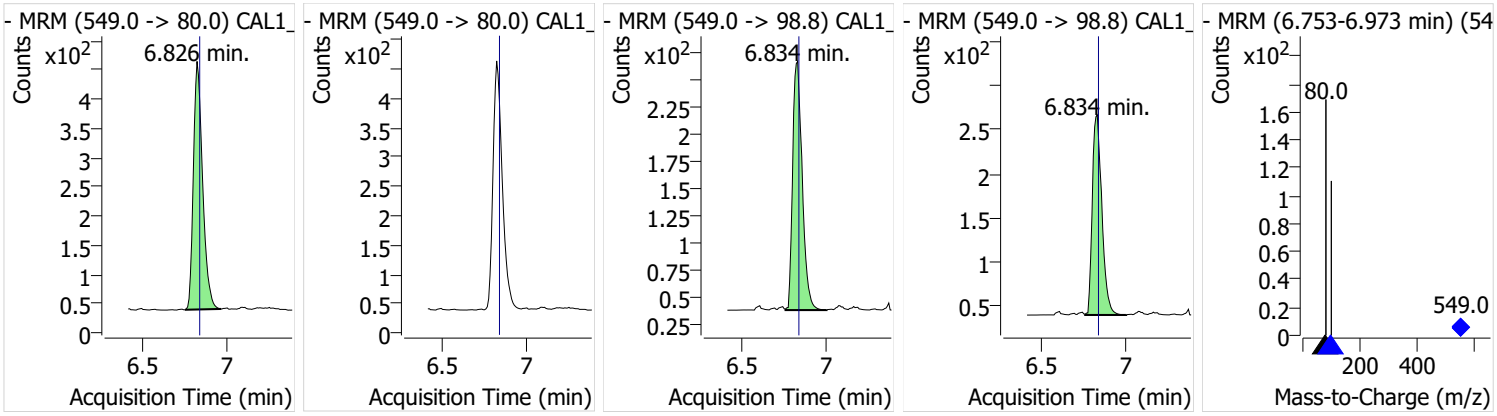

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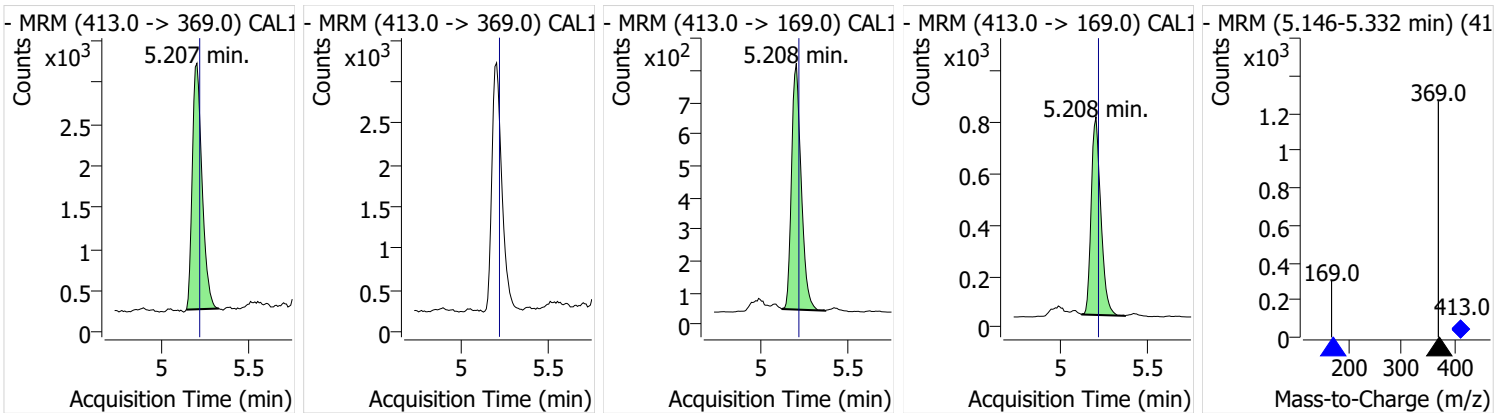

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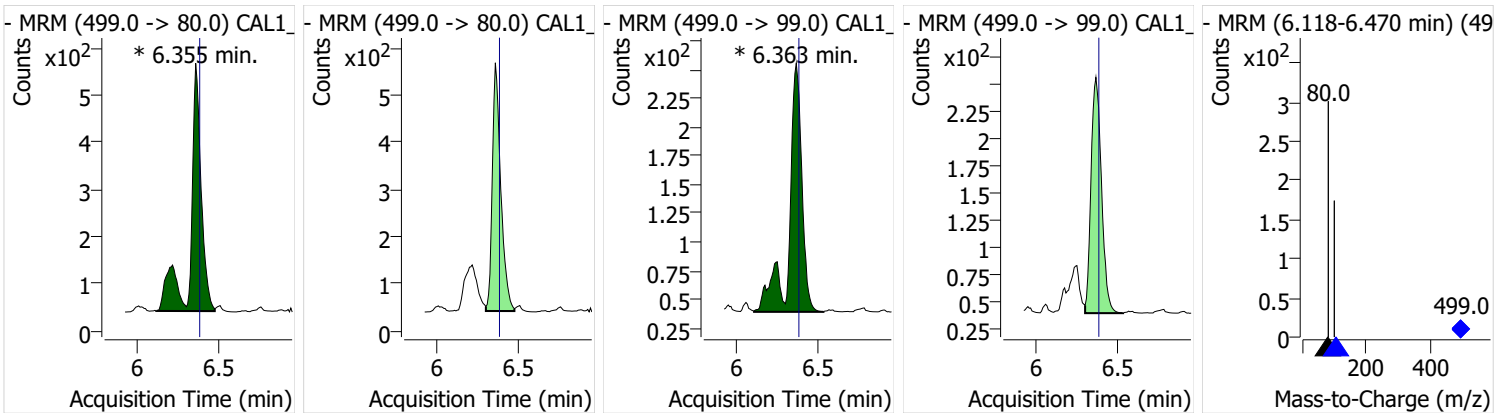

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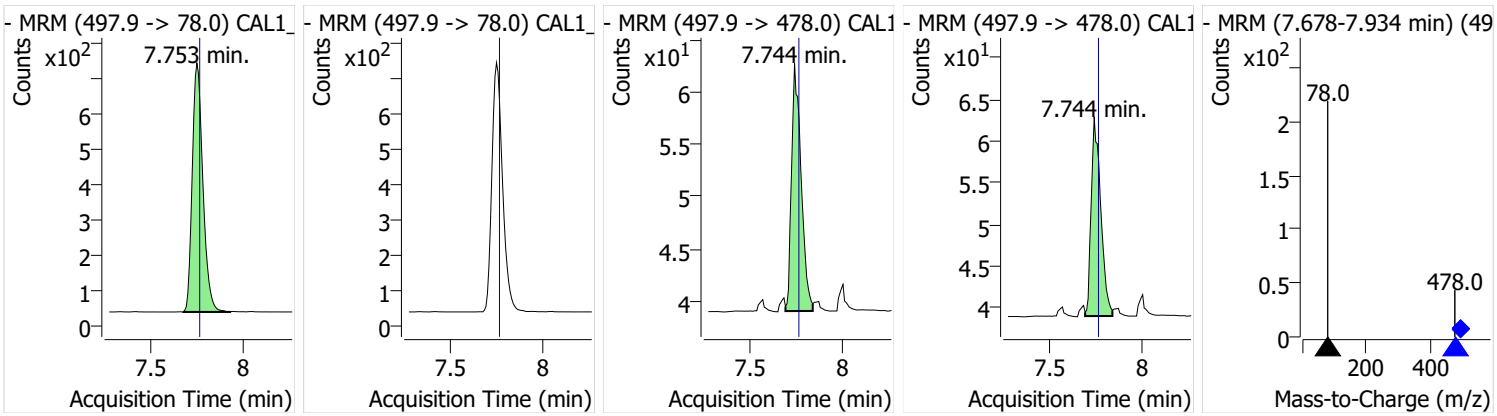

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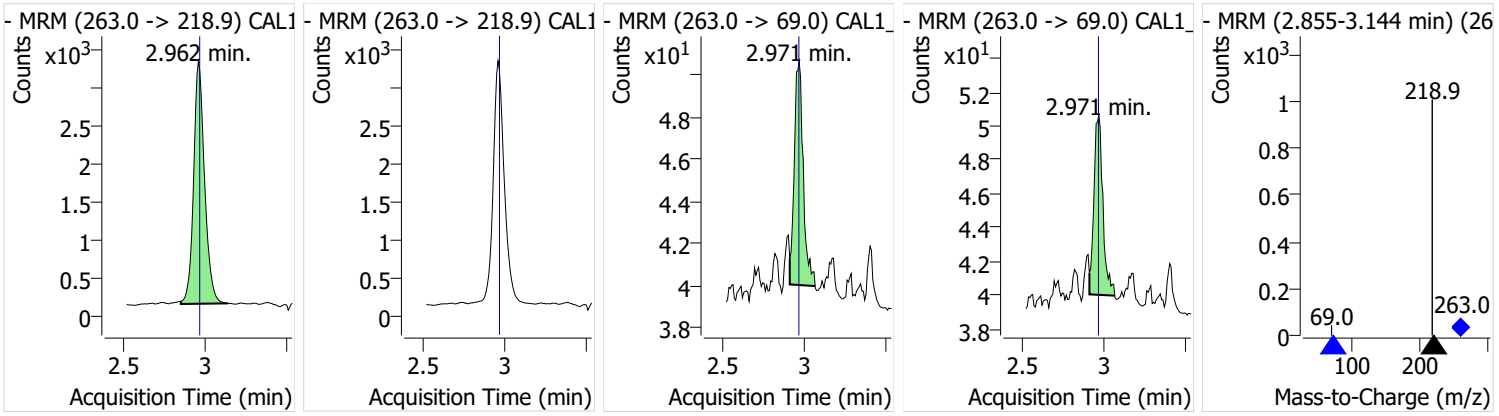

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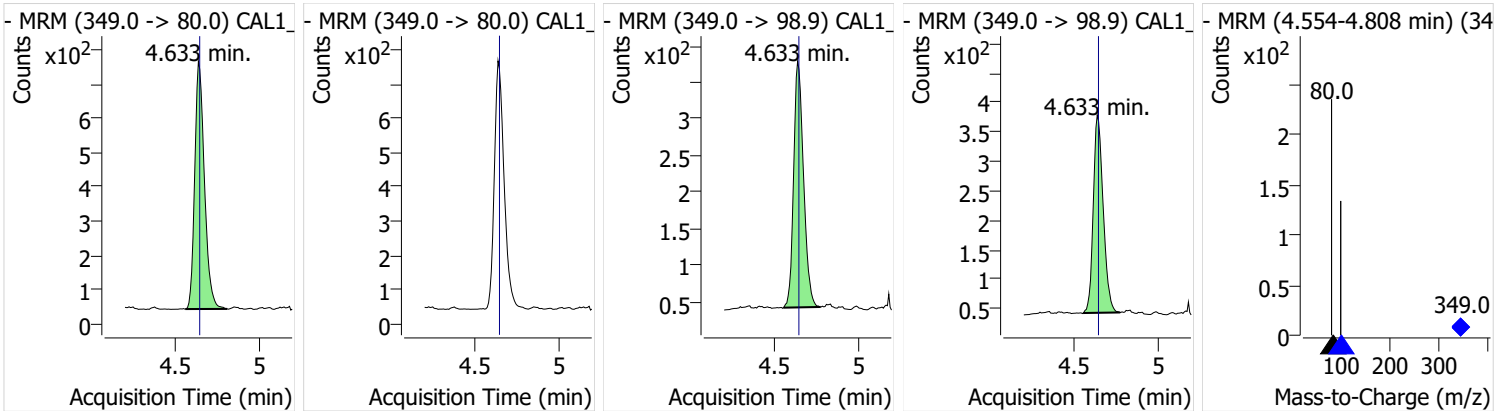

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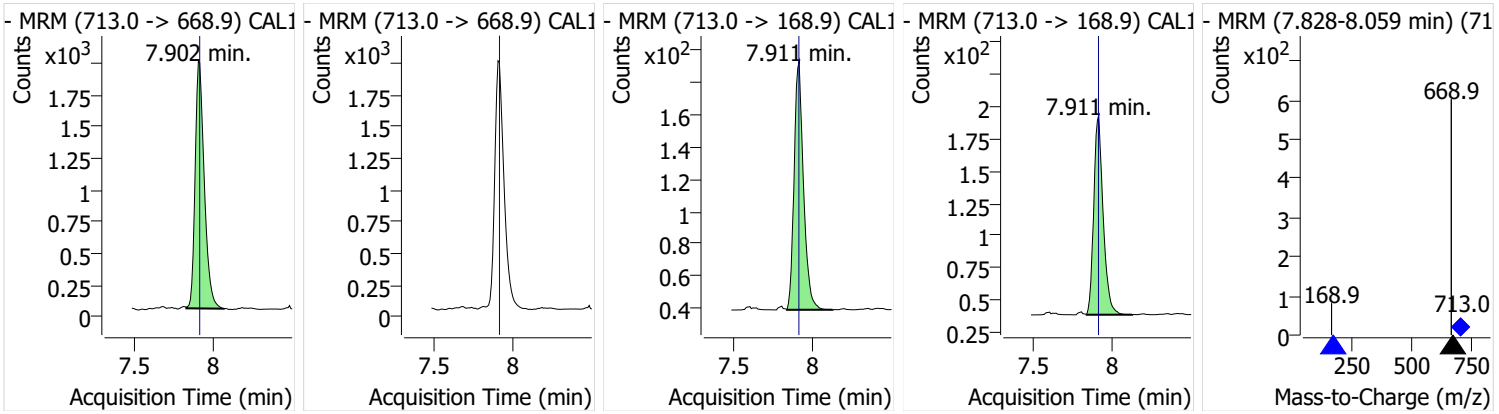

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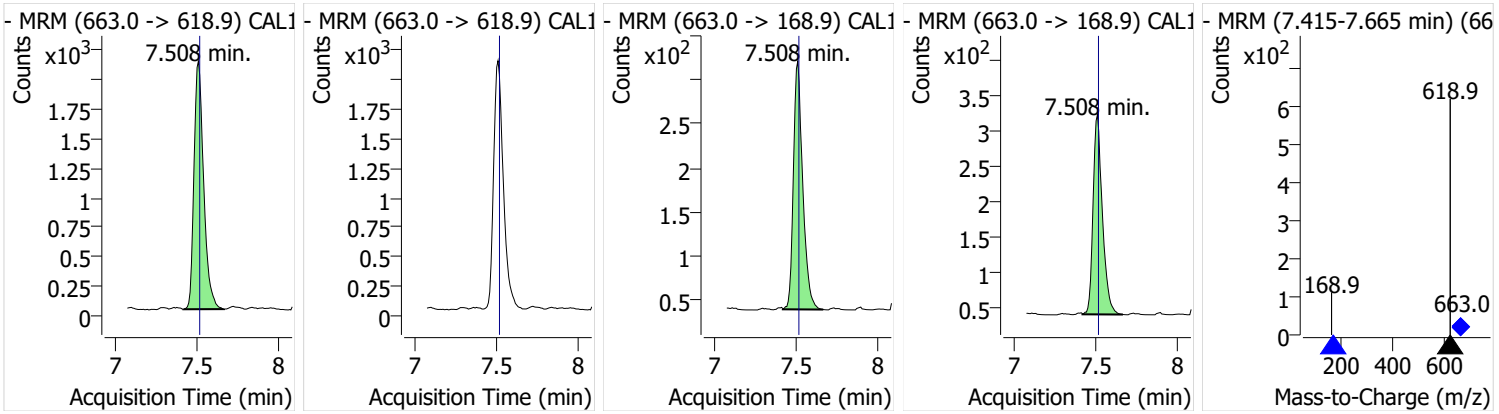

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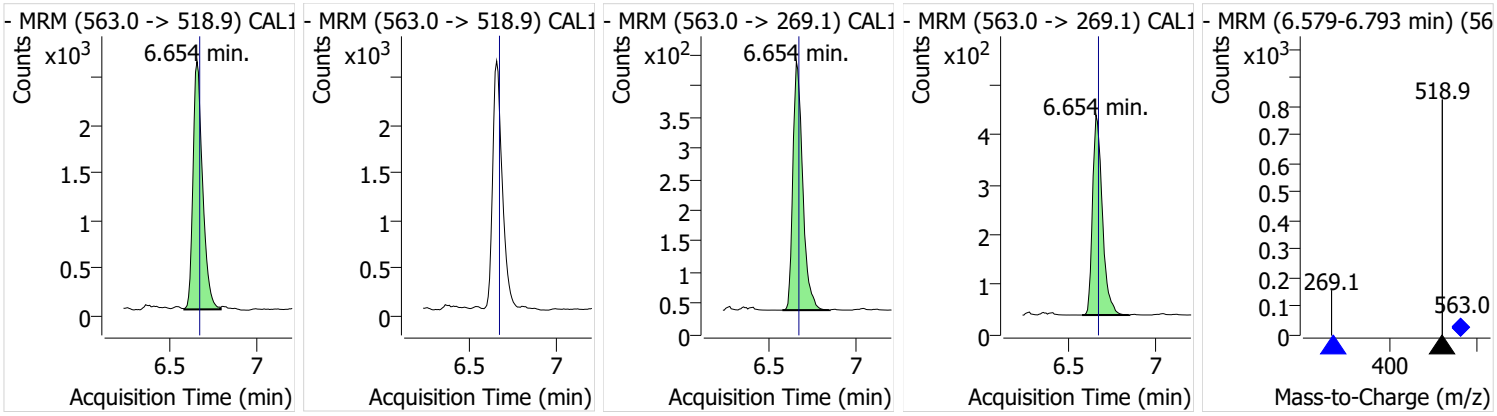

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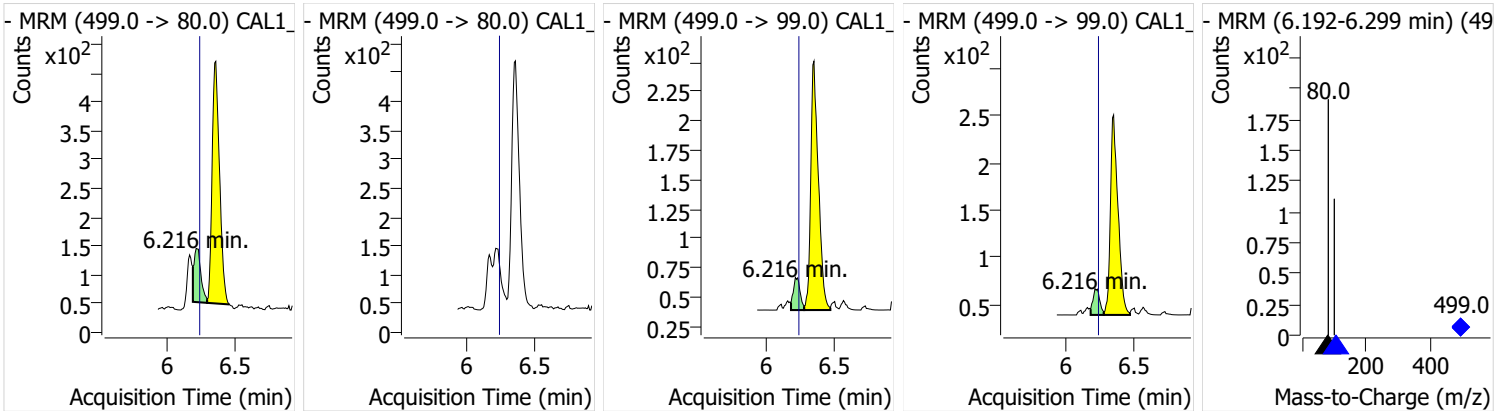

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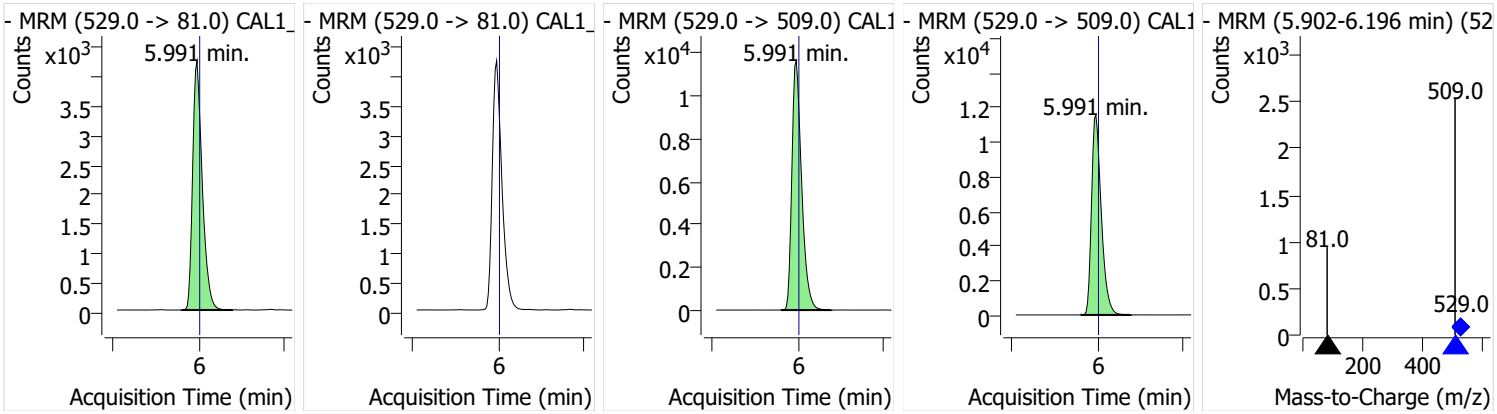

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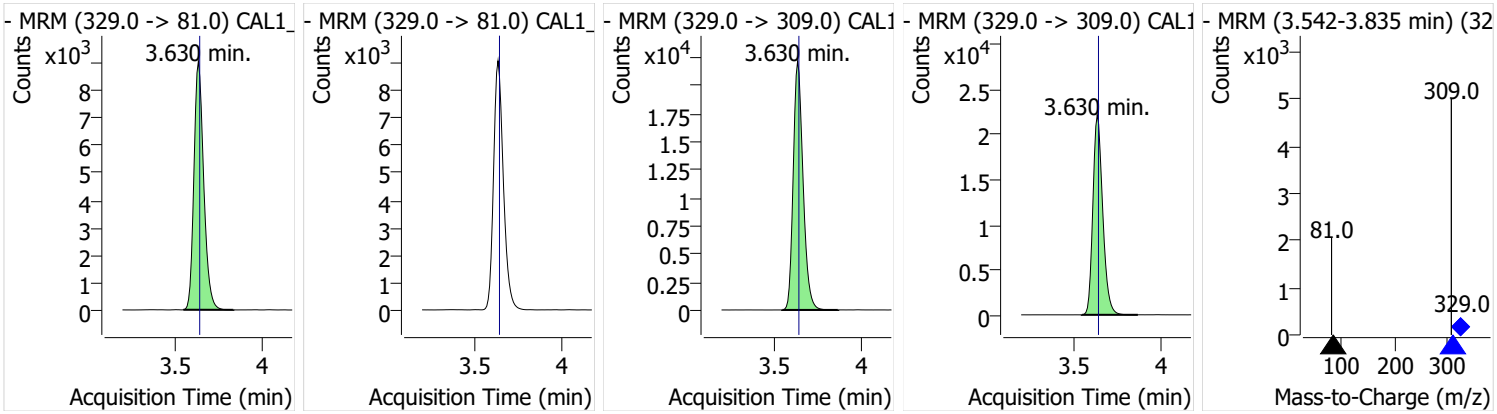

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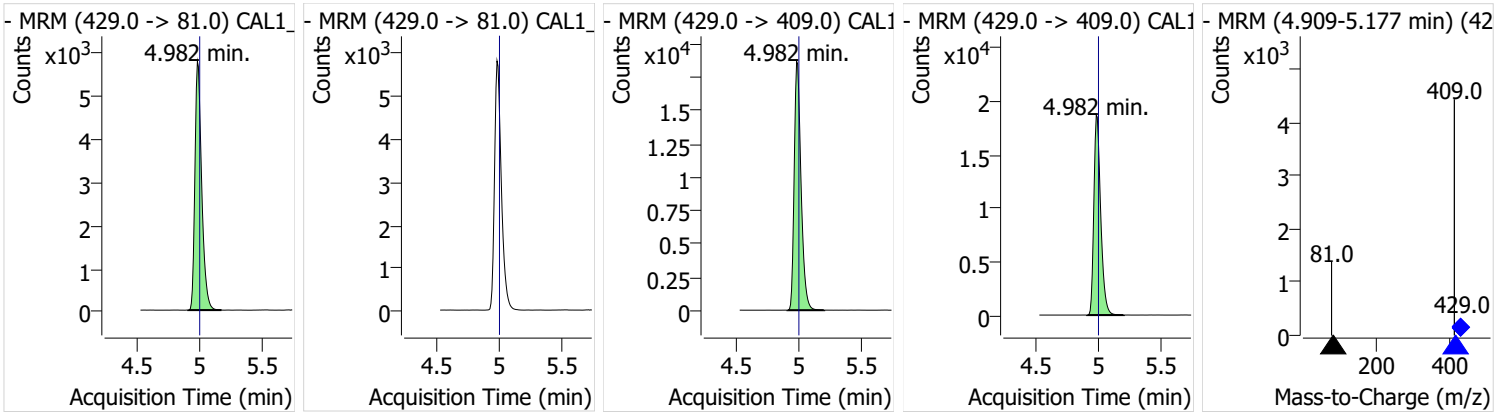

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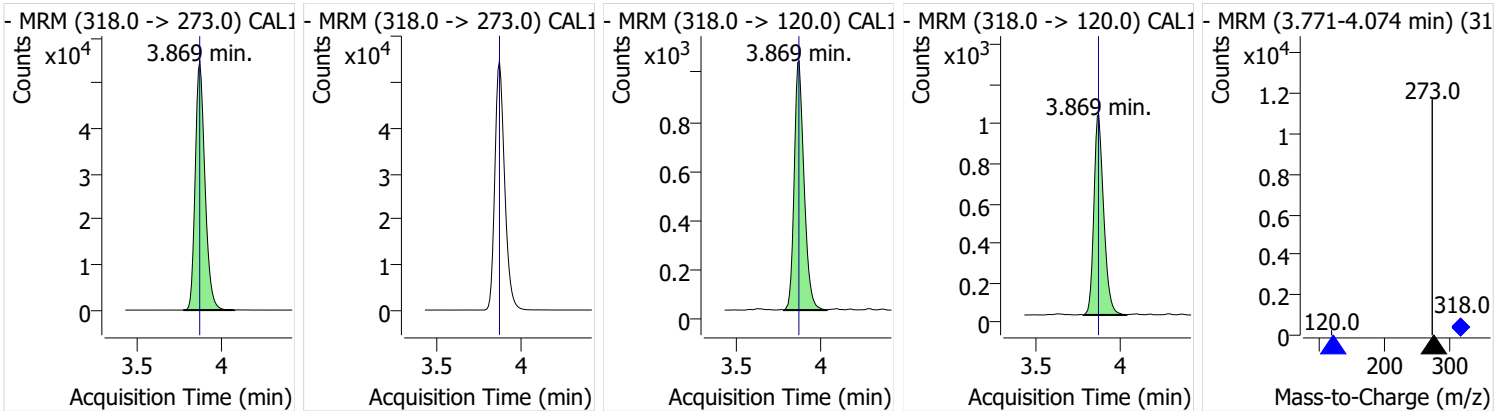

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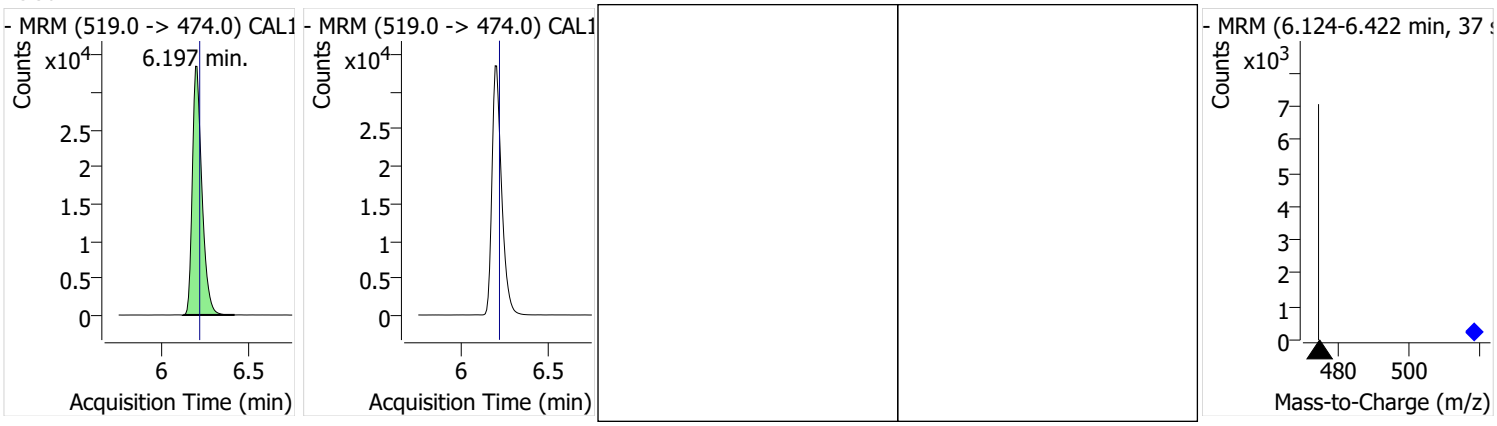

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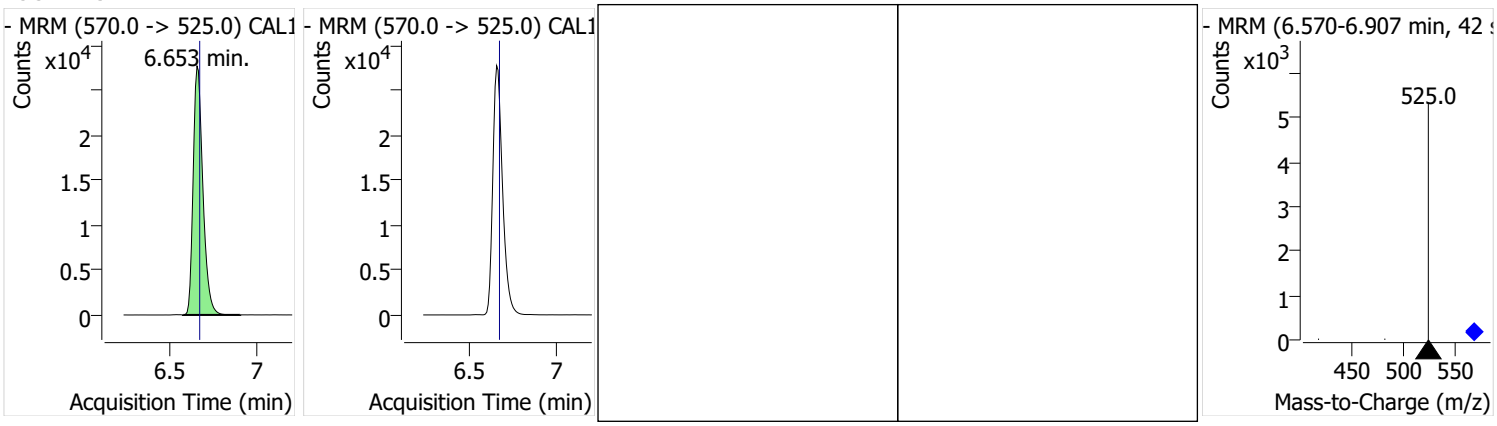

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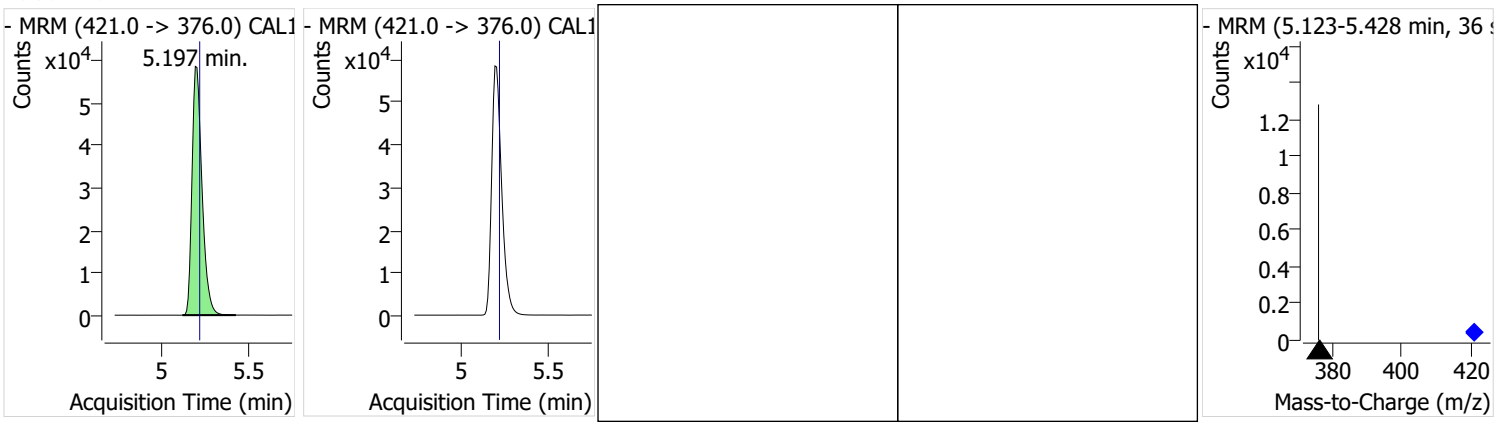

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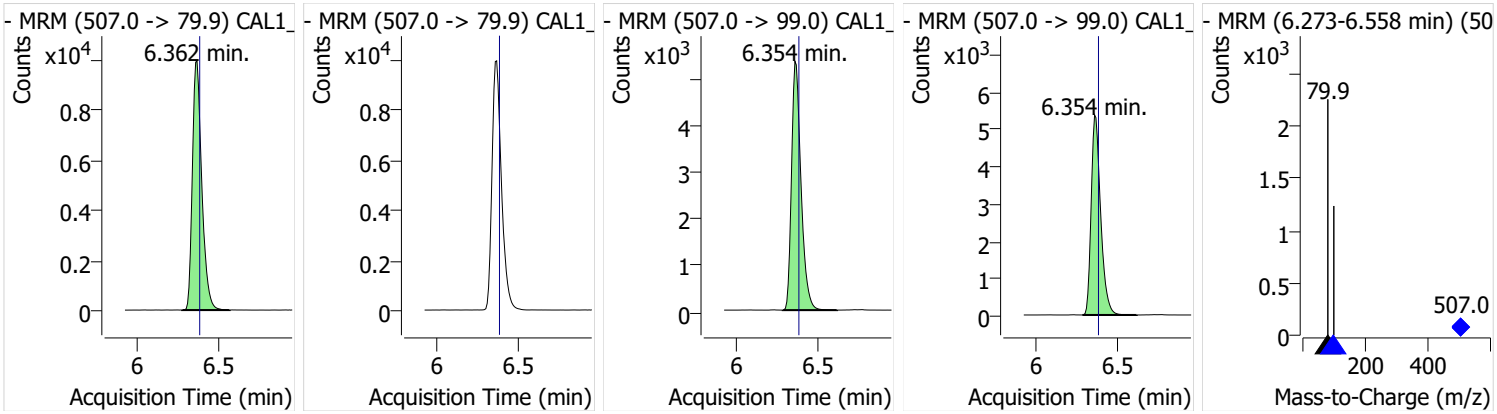

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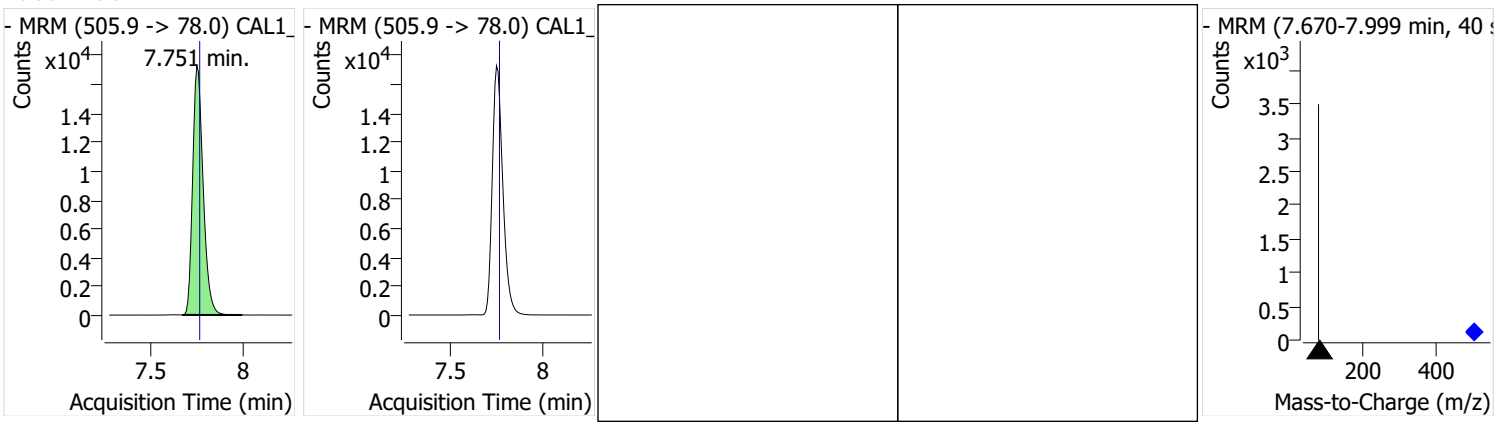

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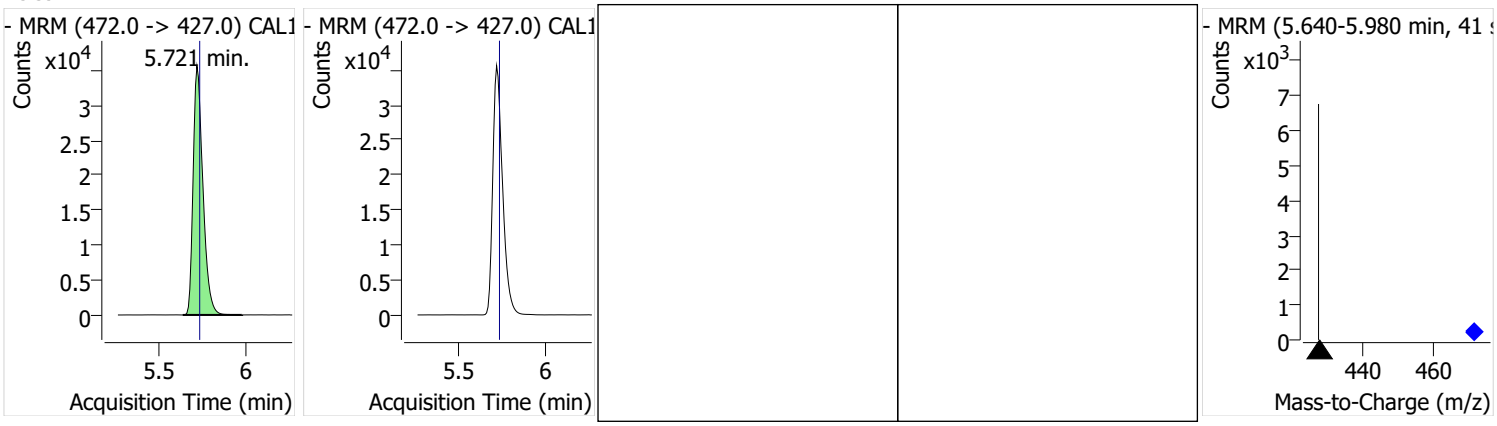

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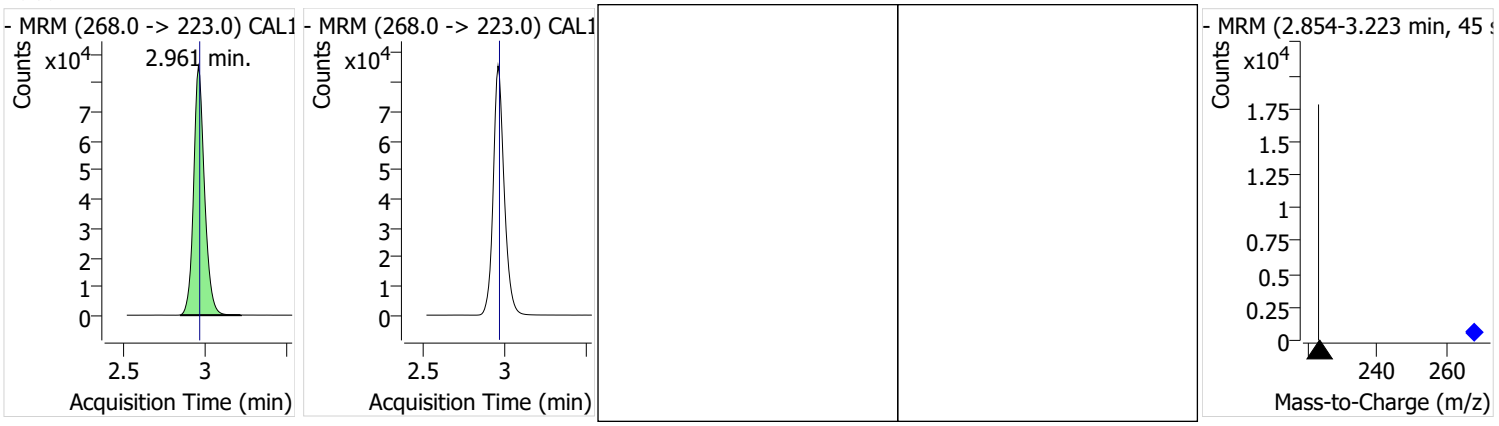

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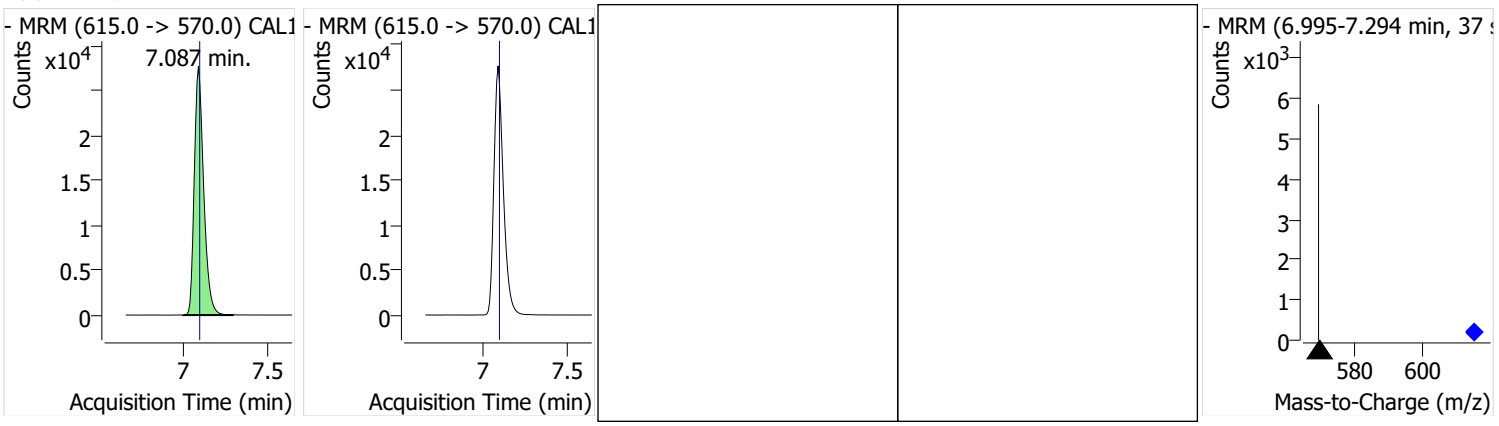

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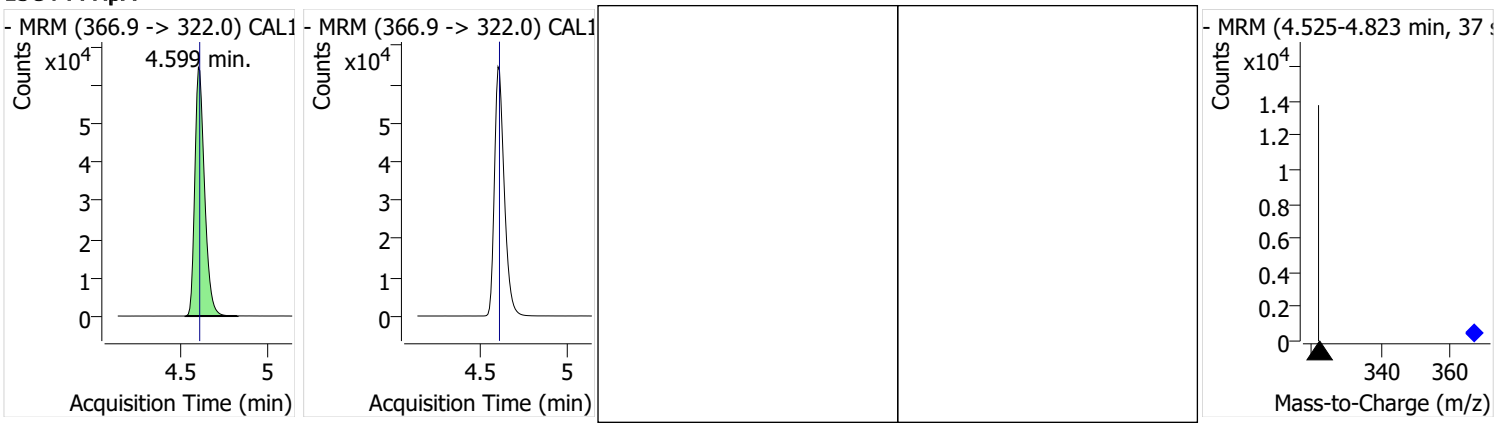

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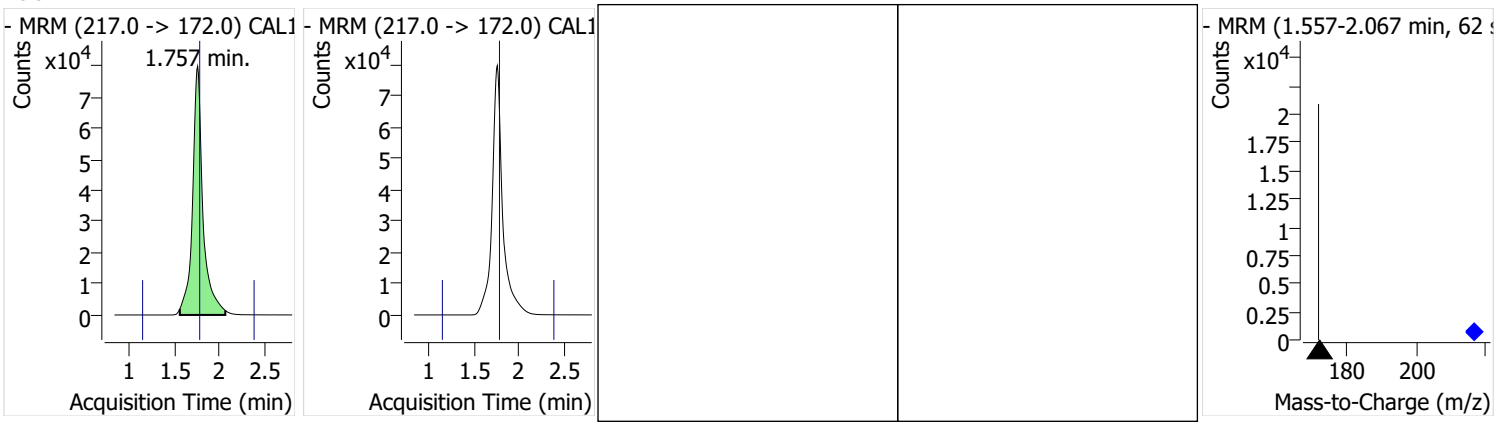

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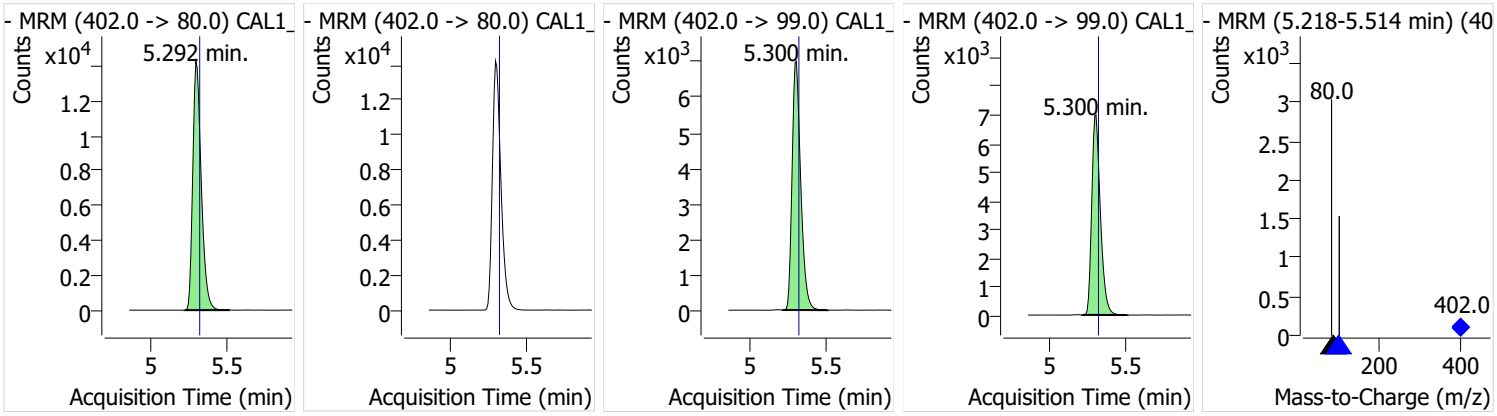
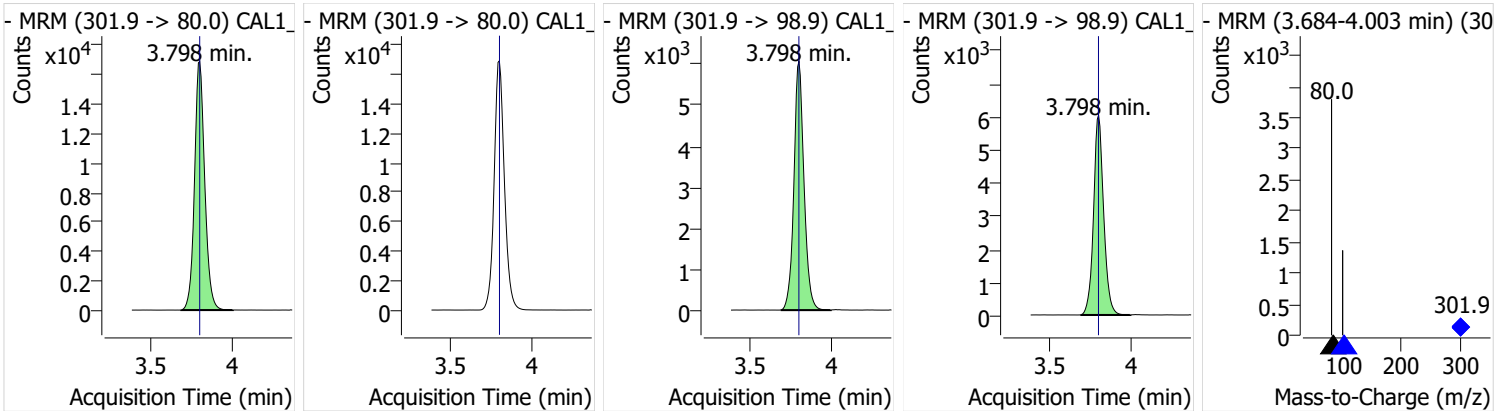
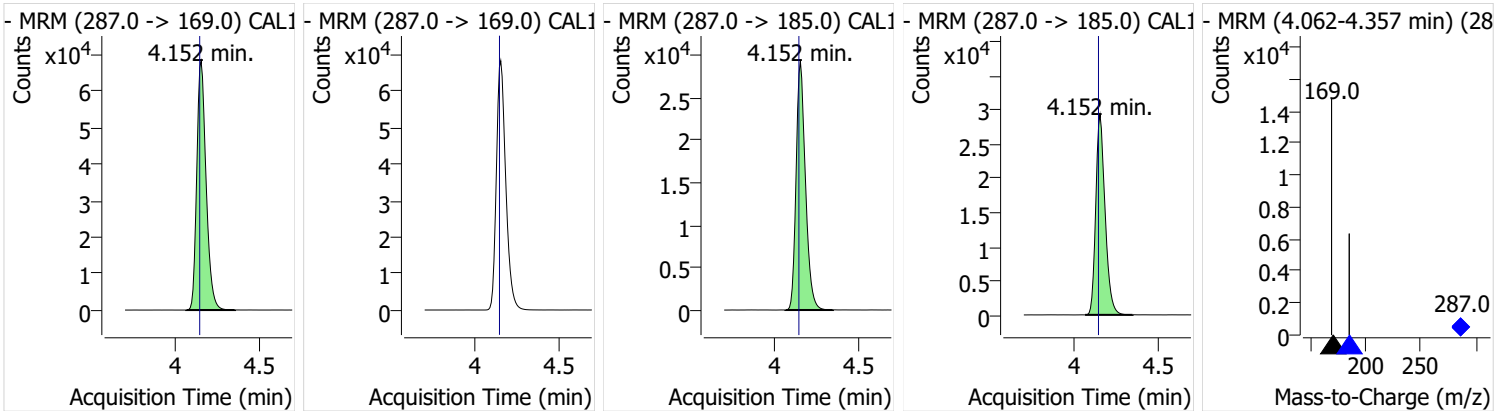


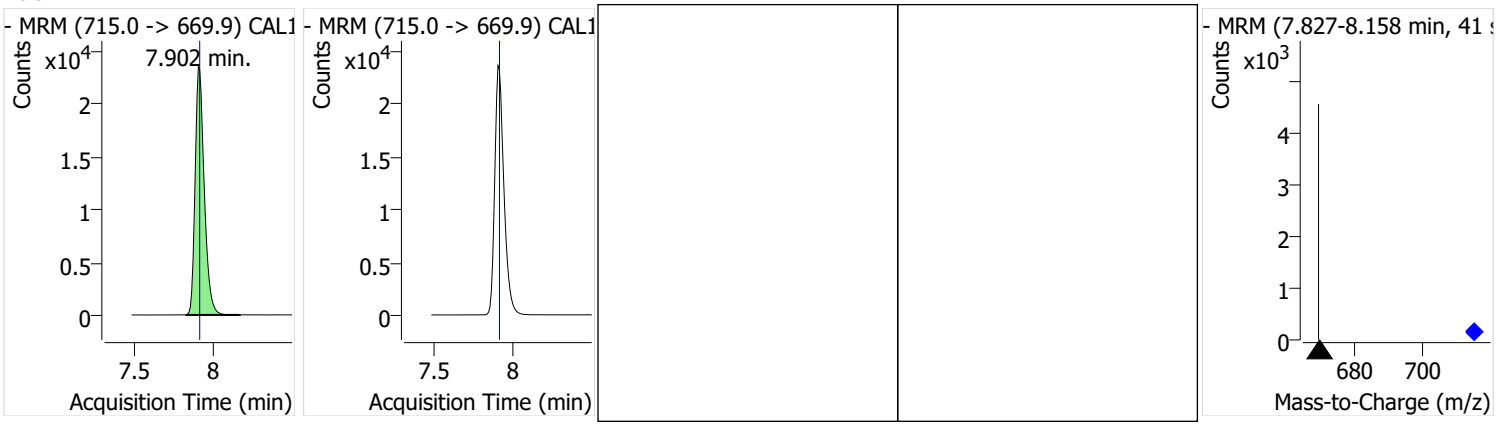
13C3-PFBS



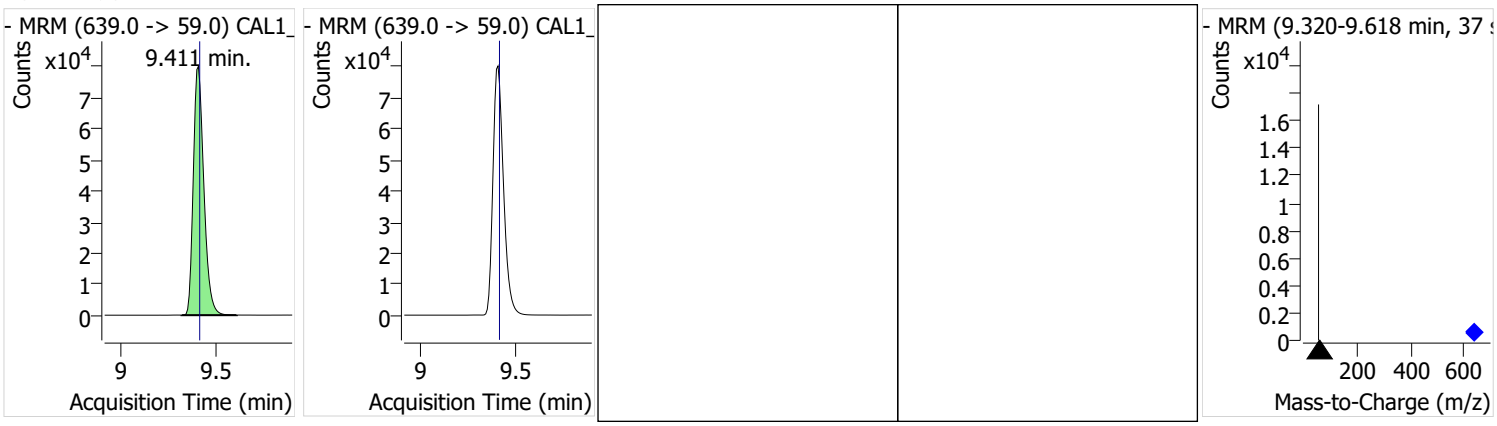
13C3-HFPODA



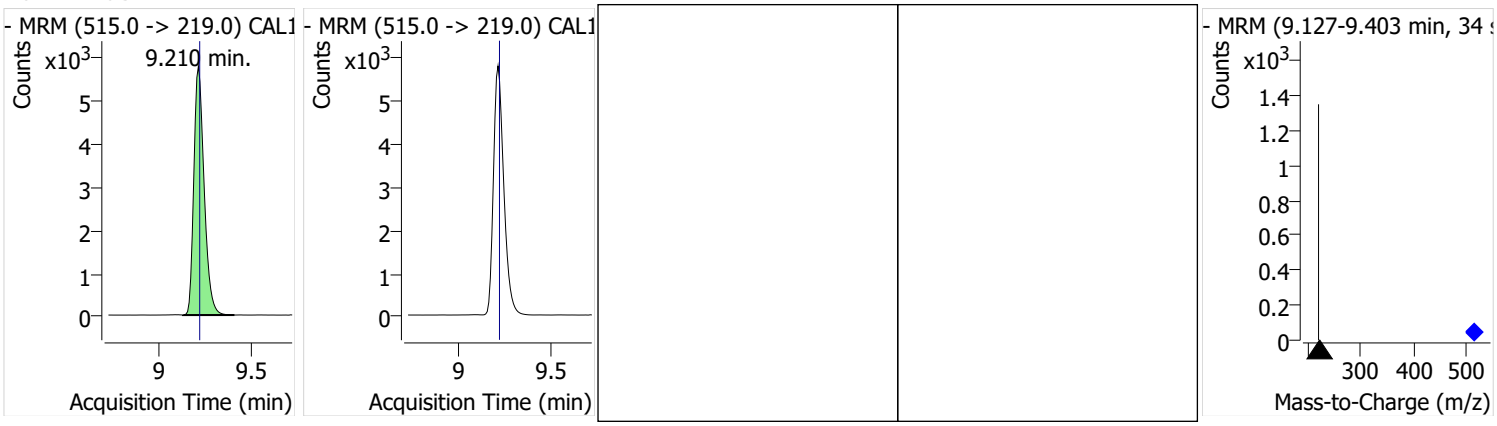
13C2-PFTeDA



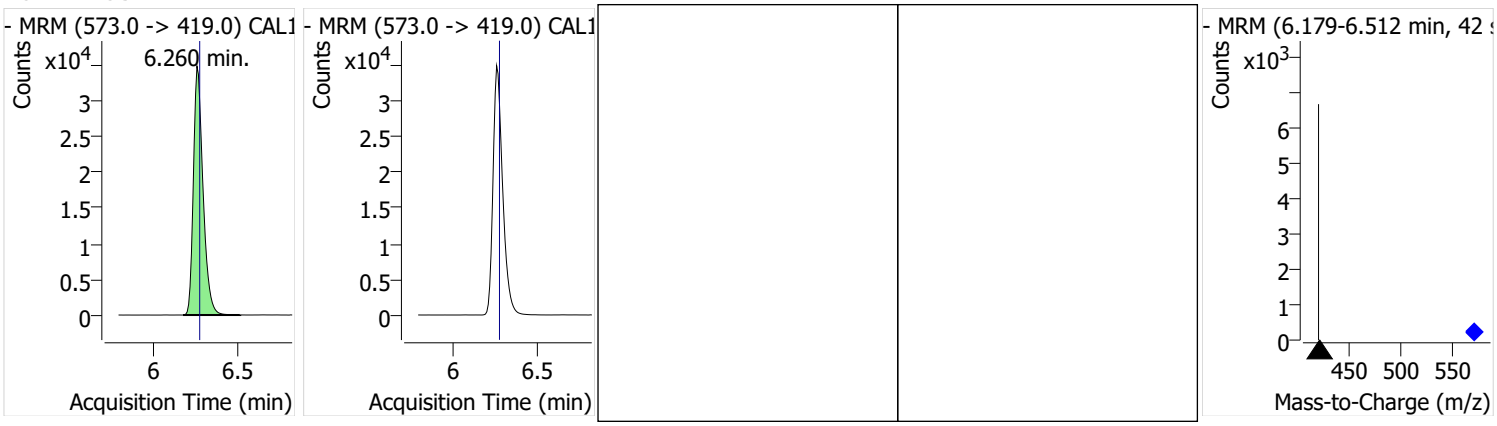
D9-NEtFOSE



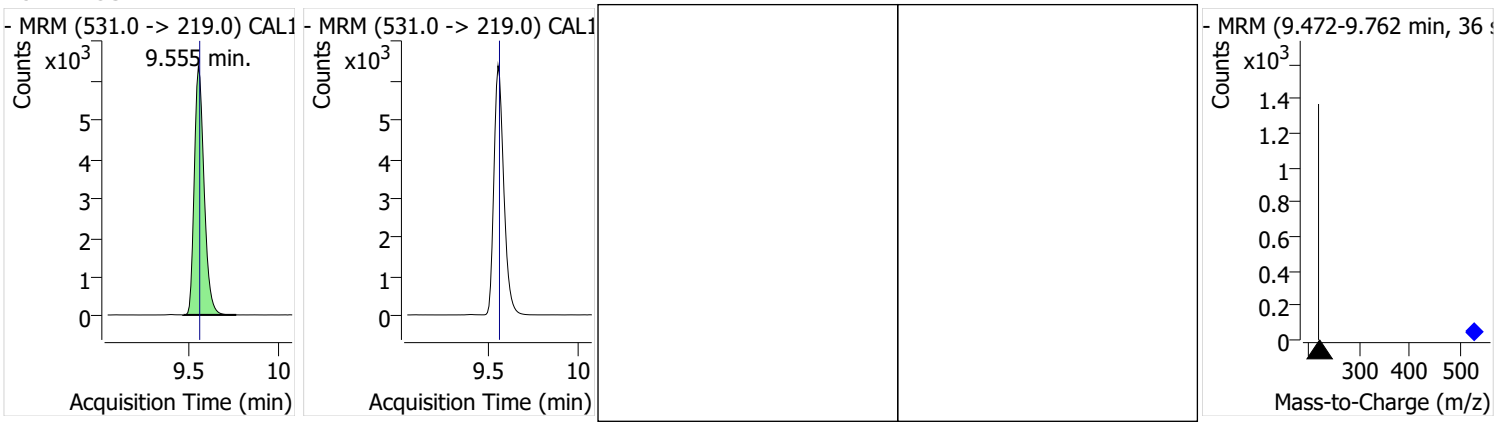
D3-NMeFOSA



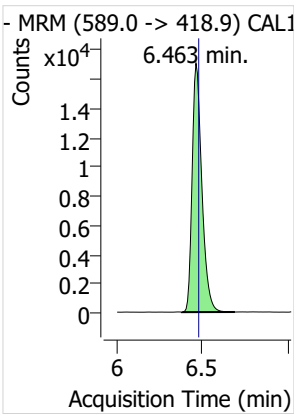
D3-NMeFOSAA

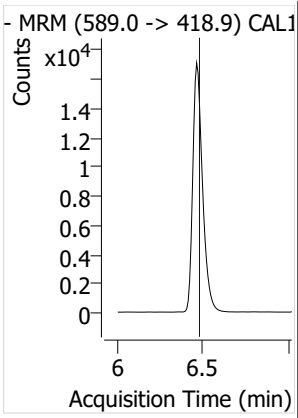


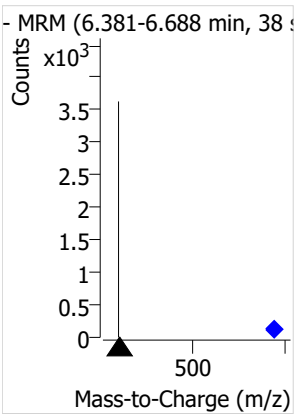
D5-NEtFOSA



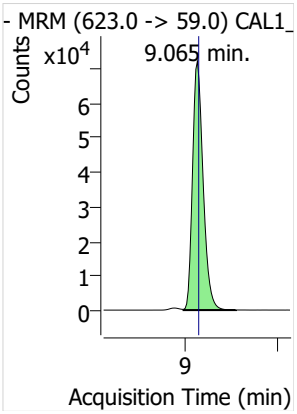
D5-NEtFOSAA

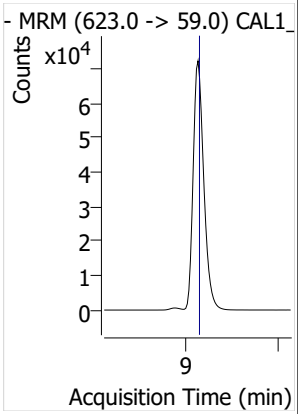


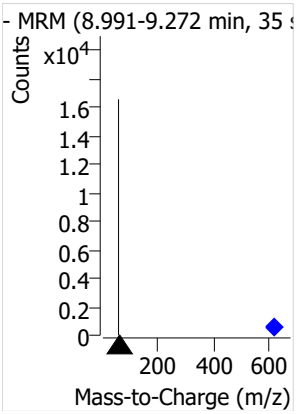




D7-NMeFOSE







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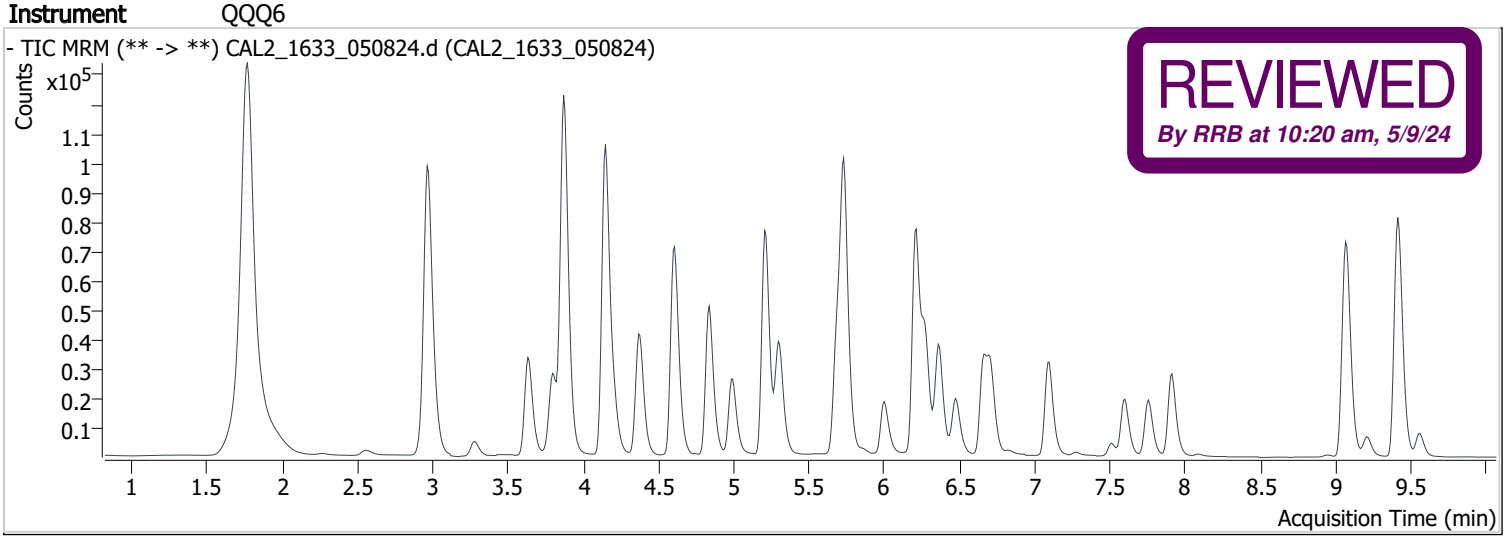
Acq. Time	5/8/2024 6:32 PM	**Data File**	CAL2_1633_050824.d
Sample Type	Cal	**Sample Name**	CAL2_1633_050824
Dilution	1	**Acq. Method**	1633_ACQUISITION_01.m
Sample Comment	E#24E0155	**Processing method**	1633_042924.m
Instrument	QQQ6		



REVIEWED
By RRB at 10:20 am, 5/9/24

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
11Cl-PF3OUdS	7.600	60577	7756.96		13C3-HFPODA - ISTD	4.152	252154	0.8141	ng/ml			
633.0 -> 453.0			2450.39	21.5								
3:3FTCA	2.557	5479	1100.09		13C5-PFPeA - ISTD	2.961	396909	1.9422	ng/ml			
241.0 -> 117.0			370.82	46.1								
4:2FTS	3.631	13031	2800.35		13C2-4:2FTS - ISTD	3.630	29675	0.7523	ng/ml			
327.0 -> 80.9			1116.58	40.0								
5:3FTCA	4.368	83990	12576.00		13C5-PFHxA - ISTD	3.869	218835	9.6320	ng/ml			
341.0 -> 217.0			19295.63	90.6								
6:2FTS	4.991	9547	2958.62		13C2-6:2FTS - ISTD	4.982	20158	0.6991	ng/ml			
427.0 -> 80.9			626.56	33.9								
7:3FTCA	5.691	98096	10700.88		13C5-PFHxA - ISTD	3.869	218835	9.5525	ng/ml			
441.0 -> 317.0			7928.96	84.8								
8:2FTS	6.000	6459	42412.61		13C2-8:2FTS - ISTD	6.000	15200	0.8324	ng/ml			
527.0 -> 81.0			773.87	39.3								
9Cl-PF3ONS	6.712	68050	4732.88		13C3-HFPODA - ISTD	4.152	252154	0.8178	ng/ml			
533.0 -> 353.0			1397.25	30.5								
ADONA	4.838	138920	18651.94		13C3-HFPODA - ISTD	4.152	252154	0.7415	ng/ml			
377.0 -> 85.1			10466.73	36.1								
HFPO-DA	4.153	19517	5525.88		13C3-HFPODA - ISTD	4.152	252154	0.8411	ng/ml			
285.0 -> 184.9			650.05	54.6								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
NEtFOSA	9.565	2340	1772.56		D5-NEtFOSA - ISTD	9.555	23615	0.1907	ng/ml			
526.0 -> 219.0			1558.39	101.3								
NEtFOSAA	6.480	3124	637.83		D5-NEtFOSAA - ISTD	6.471	66728	0.1934	ng/ml	✔	3	AMS 05/09/24
584.0 -> 526.0			160.21	63.0								
NEtFOSE	9.436	26768	5827.26		D9-NEtFOSE - ISTD	9.411	296755	2.0190	ng/ml			
NFDHA	3.783	3045	946.49		13C5-PFHxA - ISTD	3.869	218835	0.4116	ng/ml			
295.0 -> 85.0			967.52	37.4								
NMeFOSA	9.211	2089	1681.98		D3-NMeFOSA - ISTD	9.210	20877	0.2065	ng/ml			
512.0 -> 219.0			1034.68	89.4								
NMeFOSAA	6.277	2410	287.07		D3-NMeFOSAA - ISTD	6.268	128410	0.2213	ng/ml	✔	3	AMS 05/09/24
570.0 -> 418.9			341.61	53.9								
NMeFOSE	9.090	23590	11919.65		D7-NMeFOSE - ISTD	9.065	270669	2.0185	ng/ml			
PFBA	1.762	46248	459.17		13C4-PFBA - ISTD	1.765	643099	0.7791	ng/ml			
PFBS	3.799	6080	685.36		13C3-PFBS - ISTD	3.798	73774	0.1651	ng/ml			
298.9 -> 98.8			286.46	41.1								
PFDA	6.214	21258	730.79		13C6-PFDA - ISTD	6.213	131103	0.1968	ng/ml			
513.0 -> 219.0			1393.64	16.6								
PFDoA	7.096	18525	746.03		13C2-PFDoA - ISTD	7.095	105449	0.2119	ng/ml			
613.0 -> 319.0			662.60	12.8								
PFDoS	8.095	1464	1900.83		13C8-PFOS - ISTD	6.362	39543	0.1858	ng/ml			
698.9 -> 99.0			614.29	68.5								
PFDS	7.279	2395	427.85		13C8-PFOS - ISTD	6.362	39543	0.1859	ng/ml			
599.0 -> 98.8			957.39	62.6								
PFEESA	4.206	37639	4281.85		13C5-PFHxA - ISTD	3.869	218835	0.3417	ng/ml			
315.0 -> 83.0			1019.82	7.4								
PFHpA	4.607	19279	587.02		13C4-PFHpA - ISTD	4.607	243826	0.1897	ng/ml			
362.9 -> 169.0			628.51	18.3								
PFHpS	5.865	3742	568.30		13C8-PFOS - ISTD	6.362	39543	0.1795	ng/ml			
449.0 -> 98.8			577.39	50.6								
PFHxA	3.871	17676	564.87		13C5-PFHxA - ISTD	3.869	218835	0.1987	ng/ml			
313.0 -> 118.9			83.46	3.0								
PFHxS	5.309	4455	2029.10		13C3-PFHxS - ISTD	5.300	51742	0.1907	ng/ml	✔	3	AMS 05/09/24
398.9 -> 99.0			272.69	46.1								
PFMBA	3.280	20725	11546.00		13C5-PFPeA - ISTD	2.961	396909	0.3793	ng/ml			
PFMPA	2.275	3261	1171.17		13C5-PFPeA - ISTD	2.961	396909	0.3754	ng/ml			
PFNA	5.730	20149	479.87		13C9-PFNA - ISTD	5.730	134613	0.1862	ng/ml			
463.0 -> 219.0			1228.10	19.9								
PFNS	6.834	2938	1141.05		13C8-PFOS - ISTD	6.362	39543	0.1825	ng/ml			

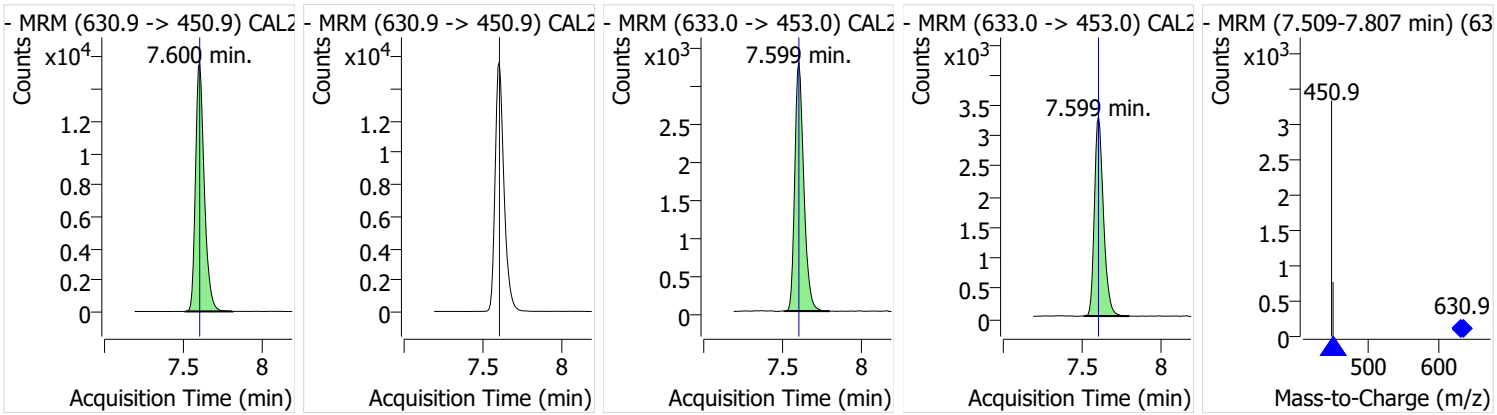
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
549.0 -> 98.8			5386.14	58.3								
PFOA	5.207	22547	434.72		13C8-PFOA - ISTD	5.206	228324	0.1967	ng/ml			
413.0 -> 169.0			651.07	24.2								
PFOS	6.363	3709	533.34		13C8-PFOS - ISTD	6.362	39543	0.1805	ng/ml	✔	3	AMS 05/09/24
499.0 -> 99.0			380.01	51.3								
PFOSA	7.761	5751	44263.78		13C8-PFOSA - ISTD	7.760	67208	0.1938	ng/ml			
497.9 -> 478.0			2421.84	2.9								
PFPeA	2.962	31221	880.15		13C5-PFPeA - ISTD	2.961	396909	0.3895	ng/ml			
263.0 -> 69.0			48.66	0.3								
PFPeS	4.641	4789	1453.28		13C3-PFHxS - ISTD	5.300	51742	0.1786	ng/ml			
349.0 -> 98.9			532.84	46.0								
PFTeDA	7.911	14230	755.87		13C2-PFTeDA - ISTD	7.910	91263	0.1938	ng/ml			
713.0 -> 168.9			2454.35	9.0								
PFTrDA	7.508	14225	945.35		13C2-PFDoA - ISTD	7.095	105449	0.1910	ng/ml			
663.0 -> 168.9			942.29	13.6								
PFUnA	6.662	16287	1083.38		13C7-PFUnA - ISTD	6.661	105341	0.1924	ng/ml			
563.0 -> 269.1			1537.65	18.5								
TDCA	6.241	832	94.29					-	ng/ml			
499.0 -> 99.0			54.20	35.1								
13C2-8:2FTS	6.000	15200	18644.99		18O2-PFHxS	5.308	52693	4.3886	ng/ml			
529.0 -> 509.0			50447.54	289.1								
13C2-4:2FTS	3.630	29675	7632.42		18O2-PFHxS	5.308	52693	4.7059	ng/ml			
329.0 -> 309.0			25992.28	266.3								
13C2-6:2FTS	4.982	20158	5991.99		18O2-PFHxS	5.308	52693	4.7309	ng/ml			
429.0 -> 409.0			21791.21	312.7								
13C5-PFHxA	3.869	218835	19012.27		13C2-PFHxA	3.870	214157	2.4797	ng/ml			
318.0 -> 120.0			1114.60	1.8								
13C6-PFDA	6.213	131103	14211.45		13C2-PFDA	6.205	133081	1.2485	ng/ml			
13C7-PFUnA	6.661	105341	7532.93		13C2-PFDA	6.205	133081	1.2392	ng/ml			
13C8-PFOA	5.206	228324	29431.98		13C4-PFOA	5.207	33025	2.5218	ng/ml			
13C8-PFOS	6.362	39543	10858.37		13C4-PFOS	6.363	44087	2.4949	ng/ml			
507.0 -> 99.0			4251.64	50.6								
13C8-PFOSA	7.760	67208	45764.28		13C4-PFOS	6.363	44087	2.4110	ng/ml			
13C9-PFNA	5.730	134613	12096.47		13C5-PFNA	5.730	163857	1.2047	ng/ml			
13C5-PFPeA	2.961	396909	15994.20		13C2-PFHxA	3.870	214157	5.0185	ng/ml			

Quantitative Analysis Sample Report

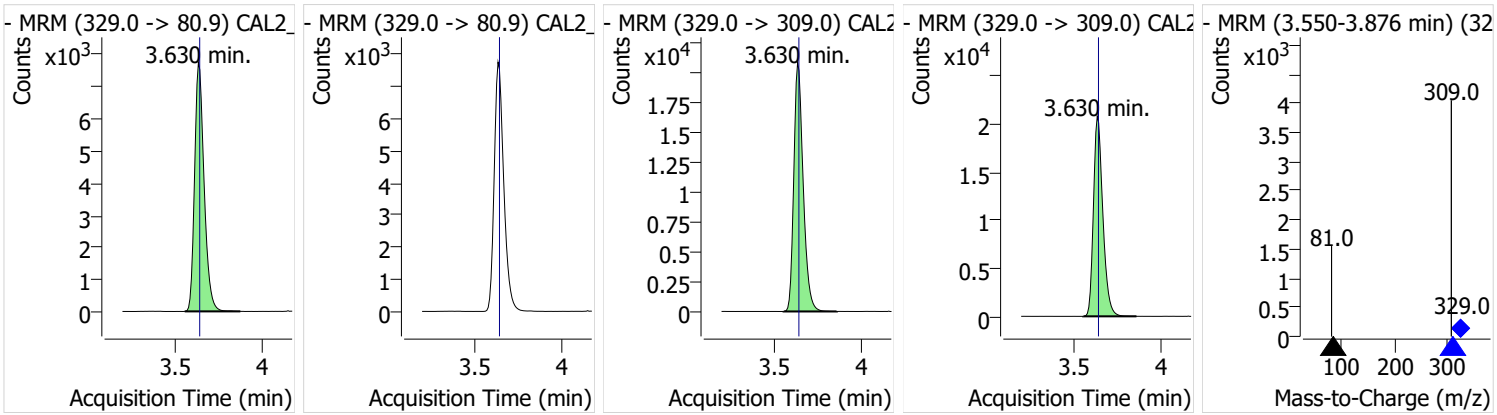
Agilent 1245

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
13C2-PFDoA	7.095	105449	12197.48		13C2-PFDA	6.205	133081	1.2019	ng/ml			
13C4-PFHpA	4.607	243826	27459.52		13C2-PFHxA	3.870	214157	2.4700	ng/ml			
13C4-PFBA	1.765	643099	149126.29		13C3-PFBA	1.768	304299	9.7340	ng/ml			
13C3-PFHxS	5.300	51742	12909.14		18O2-PFHxS	5.308	52693	2.4045	ng/ml			
402.0 -> 99.0			6965.54	51.5								
13C3-PFBS	3.798	73774	34298.40		18O2-PFHxS	5.308	52693	2.5905	ng/ml			
301.9 -> 98.9			5814.86	34.9								
13C3-HFPODA	4.152	252154	32045.94		13C2-PFHxA	3.870	214157	10.2150	ng/ml			
287.0 -> 185.0			6805.09	44.9								
13C2-PFTeDA	7.910	91263	13821.63		13C2-PFDA	6.205	133081	1.2080	ng/ml			
D9-NEtFOSE	9.411	296755	144533.83		13C4-PFOS	6.363	44087	25.5997	ng/ml			
D3-NMeFOSA	9.210	20877	10051.16		13C4-PFOS	6.363	44087	2.3350	ng/ml			
D3-NMeFOSAA	6.268	128410	39993.30		13C4-PFOS	6.363	44087	4.4962	ng/ml			
D5-NEtFOSA	9.555	23615	9405.83		13C4-PFOS	6.363	44087	2.5320	ng/ml			
D5-NEtFOSAA	6.471	66728	9176.92		13C4-PFOS	6.363	44087	4.6173	ng/ml			
D7-NMeFOSE	9.065	270669	132734.78		13C4-PFOS	6.363	44087	24.9848	ng/ml			

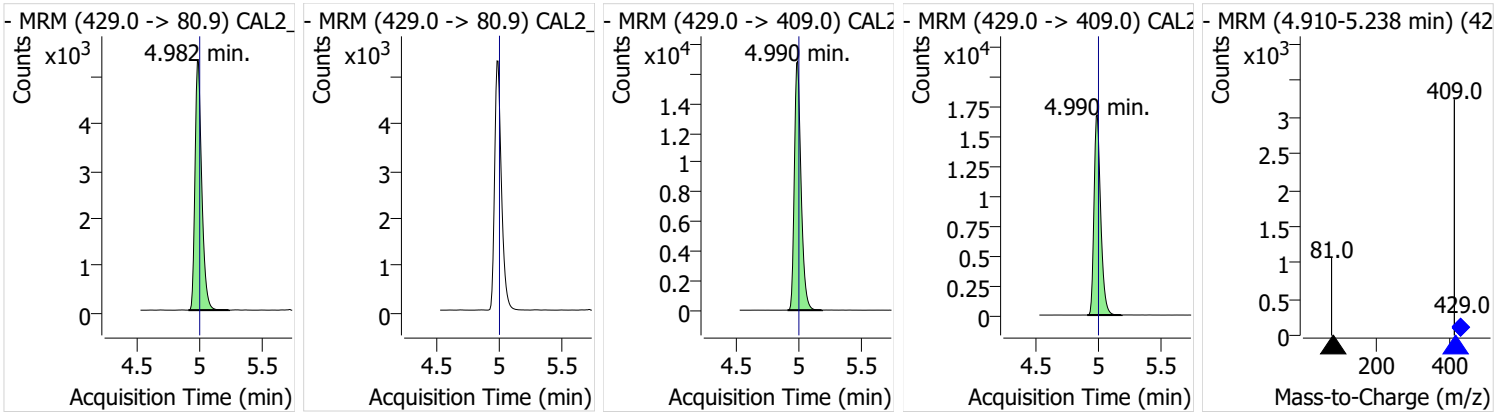
11Cl-PF3OUdS



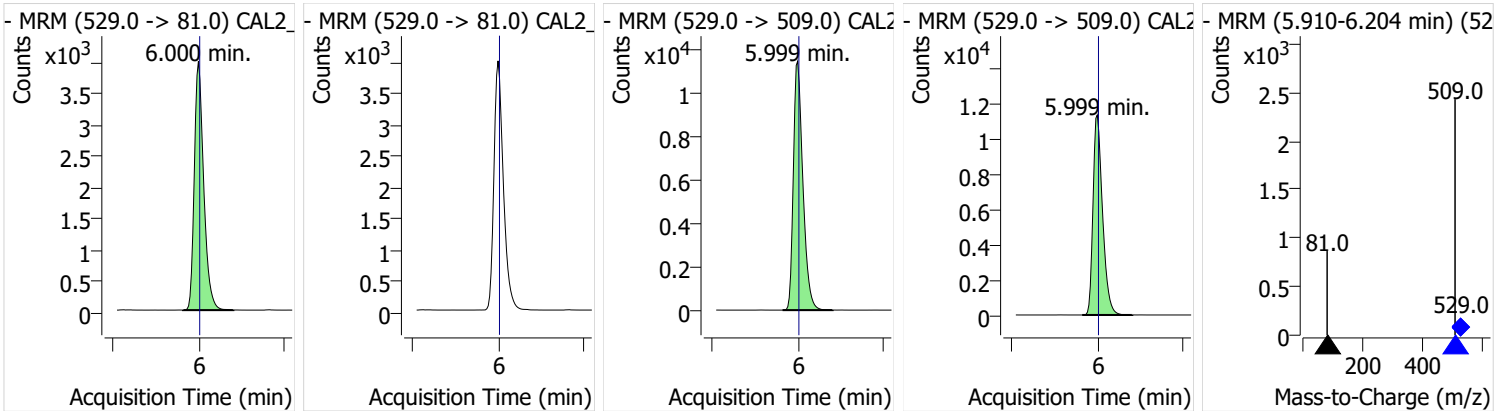
13C2-4:2FTS - ISTD



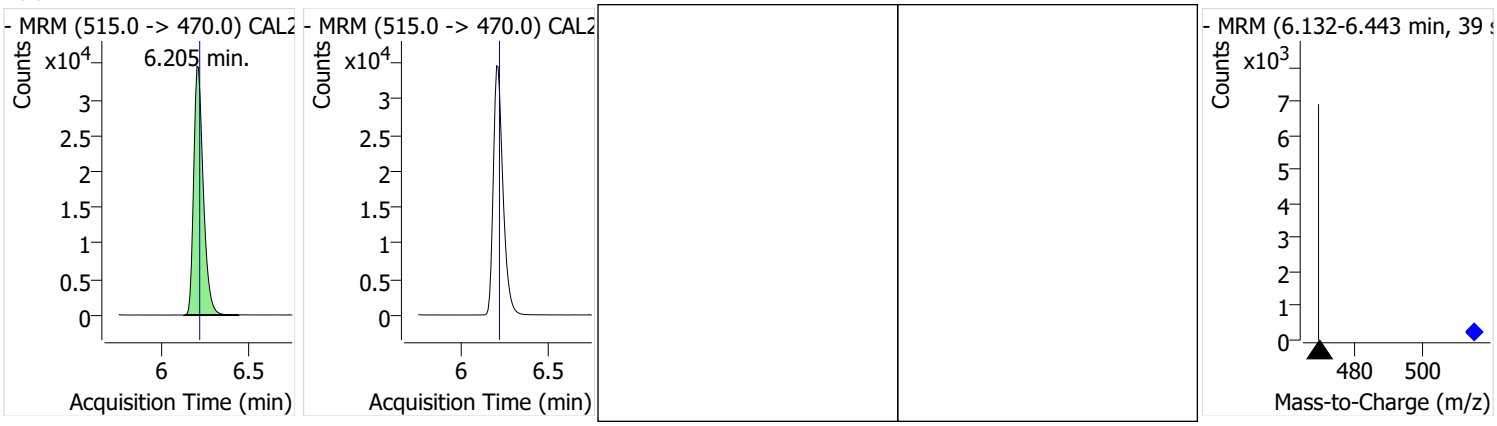
13C2-6:2FTS - ISTD



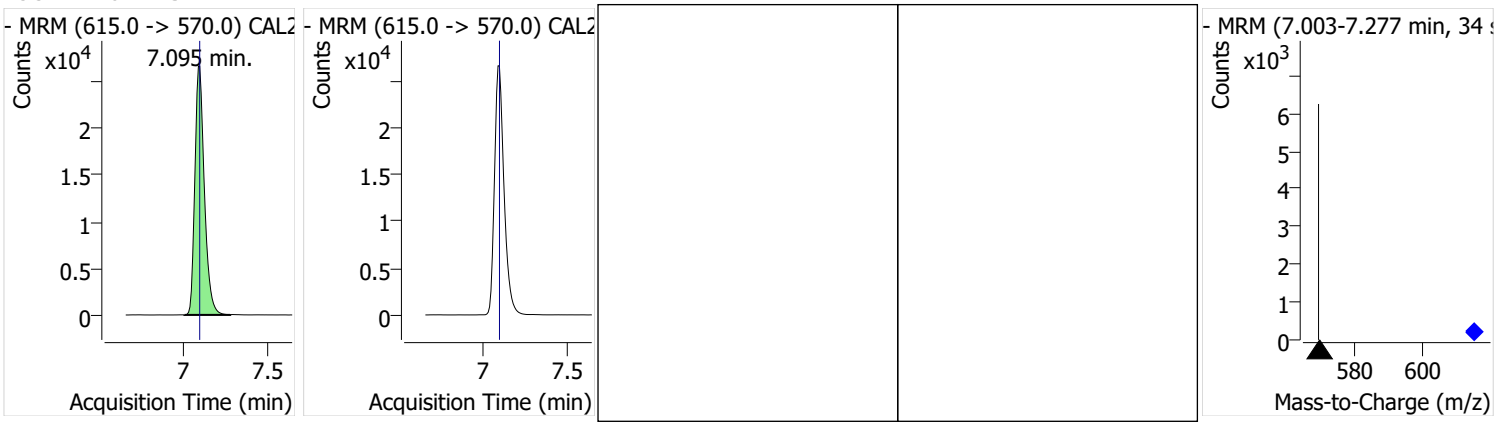
13C2-8:2FTS - ISTD



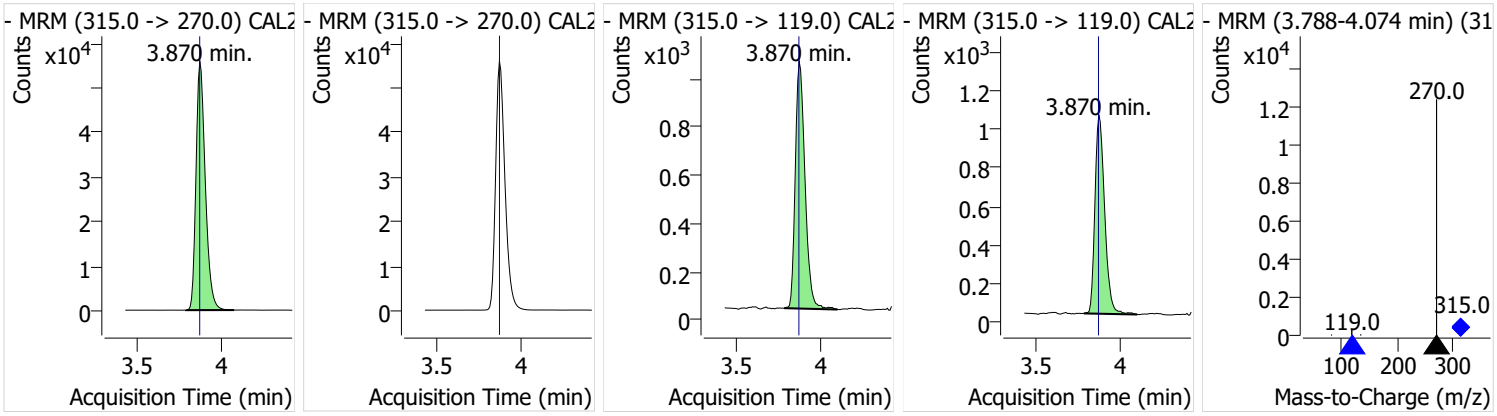
13C2-PFDA



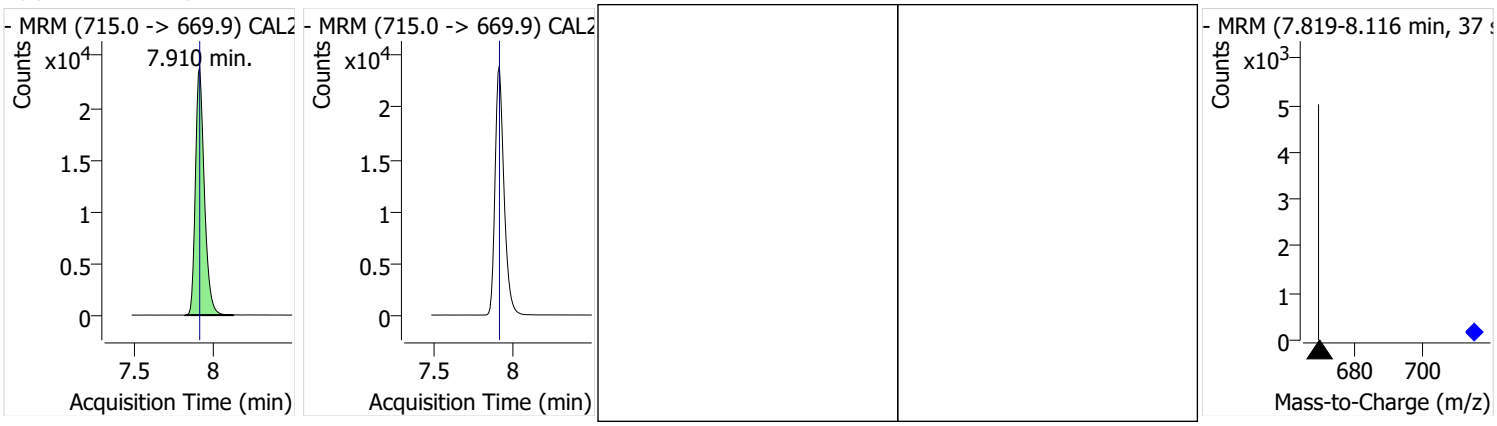
13C2-PFDoA - ISTD



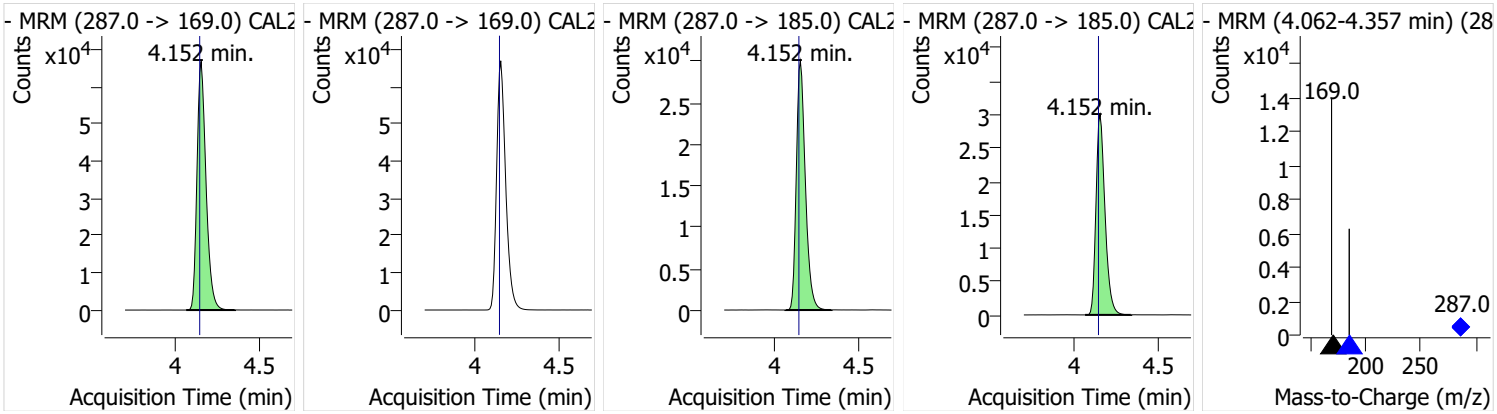
13C2-PFHxA



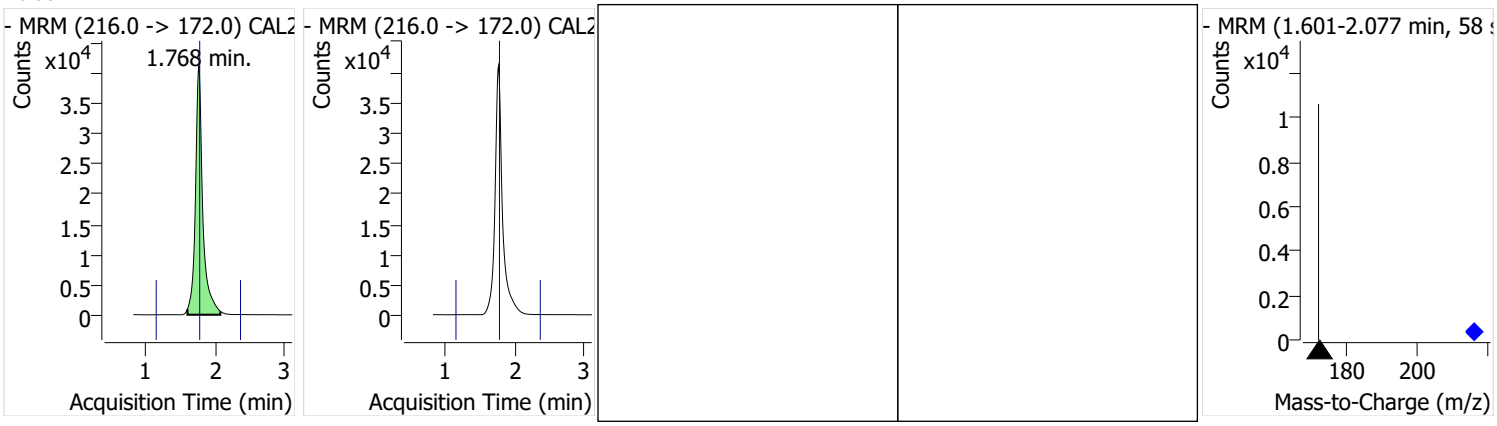
13C2-PFTeDA - ISTD



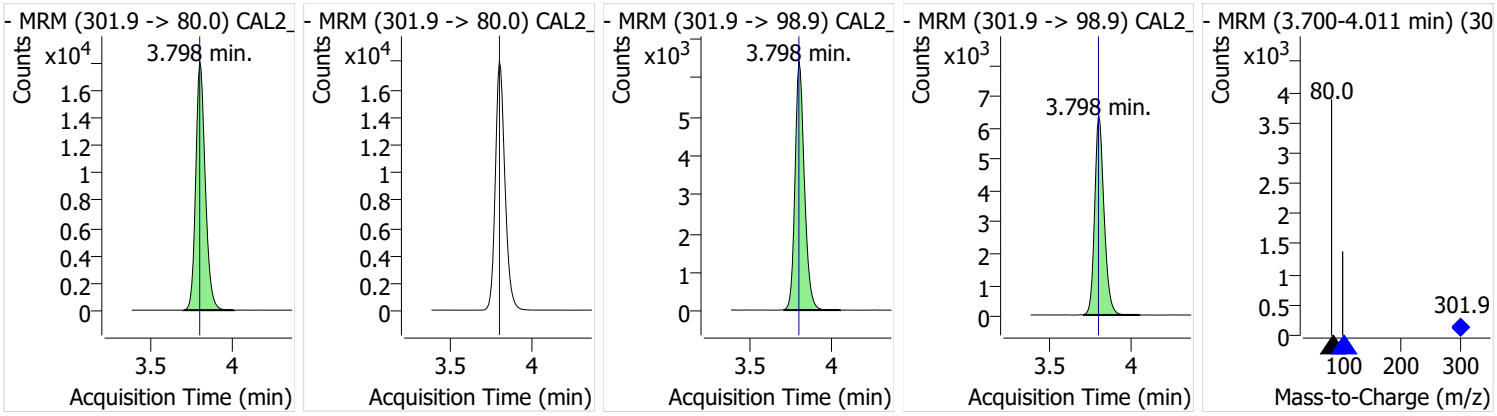
13C3-HFPODA - ISTD



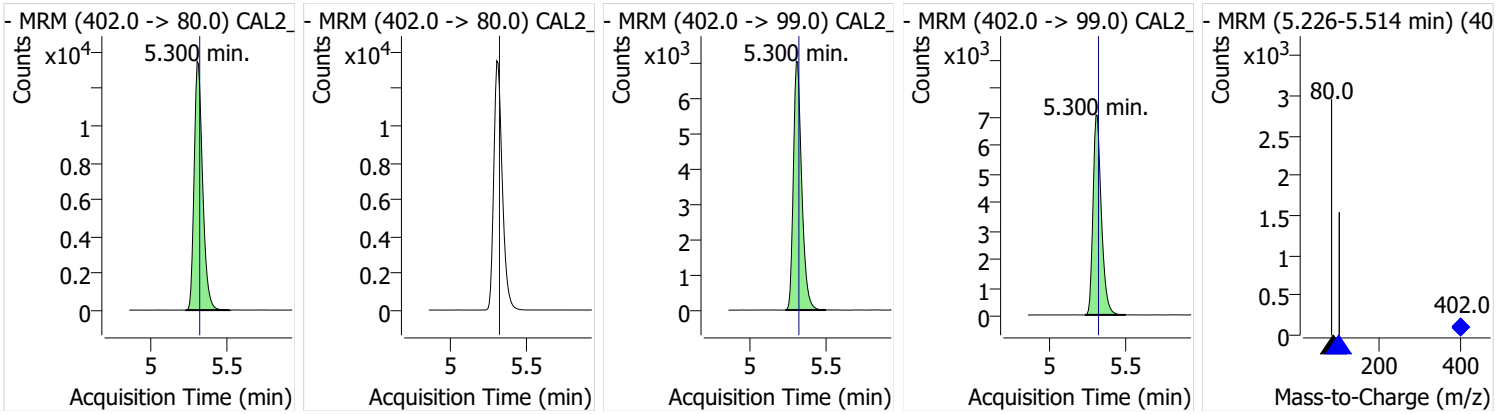
13C3-PFBA



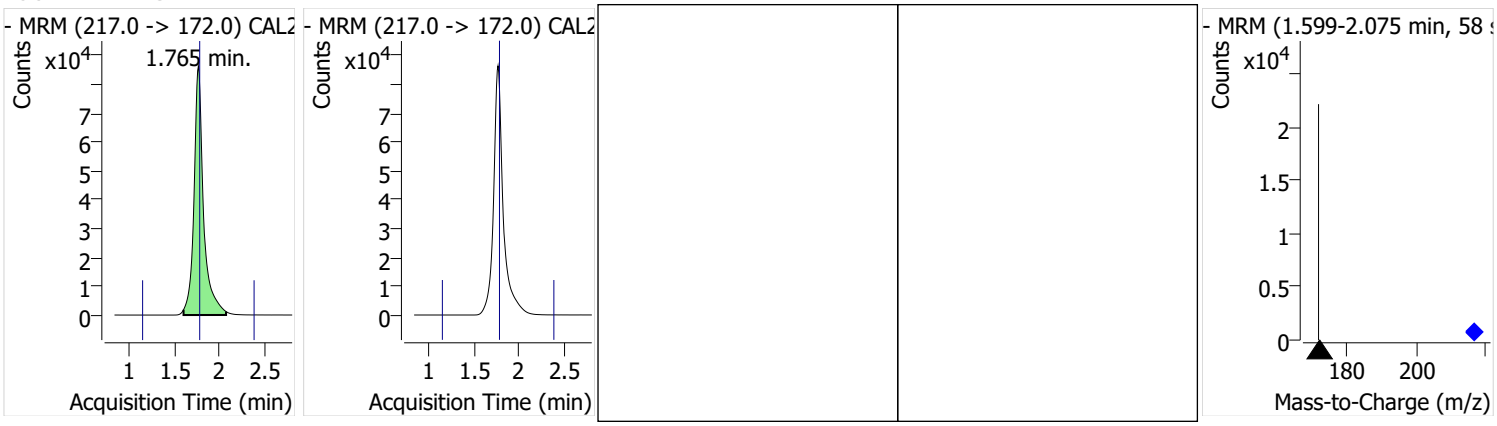
13C3-PFBS - ISTD



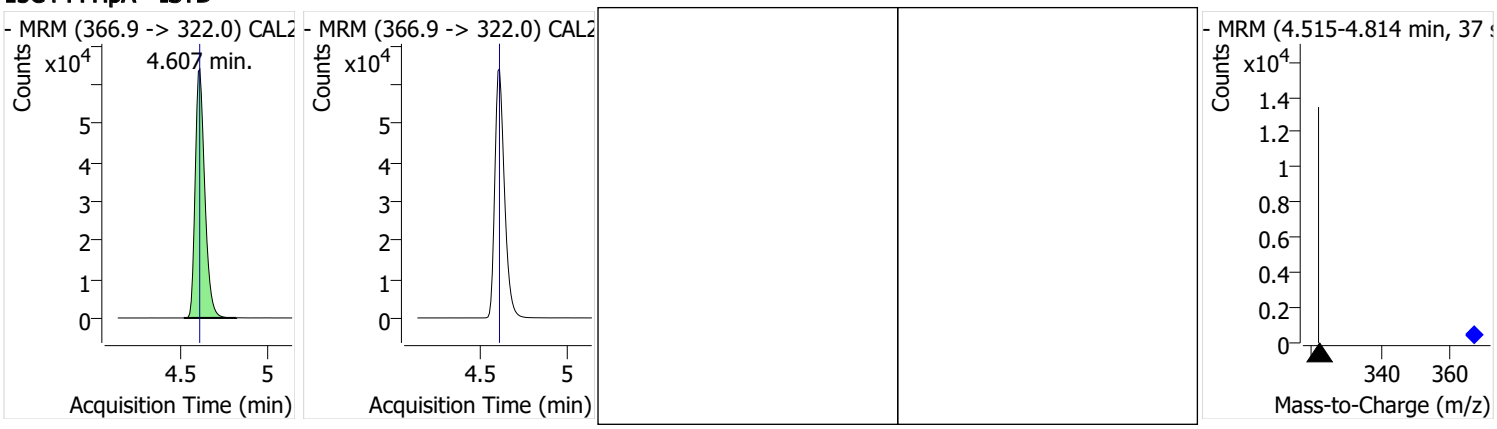
13C3-PFHxS - ISTD



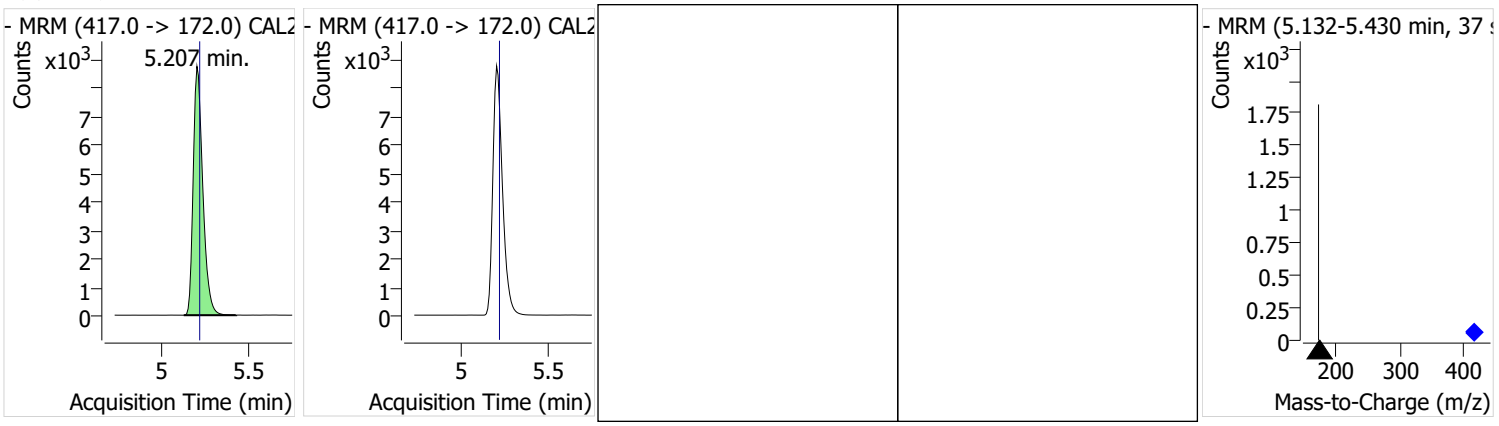
13C4-PFBA - ISTD



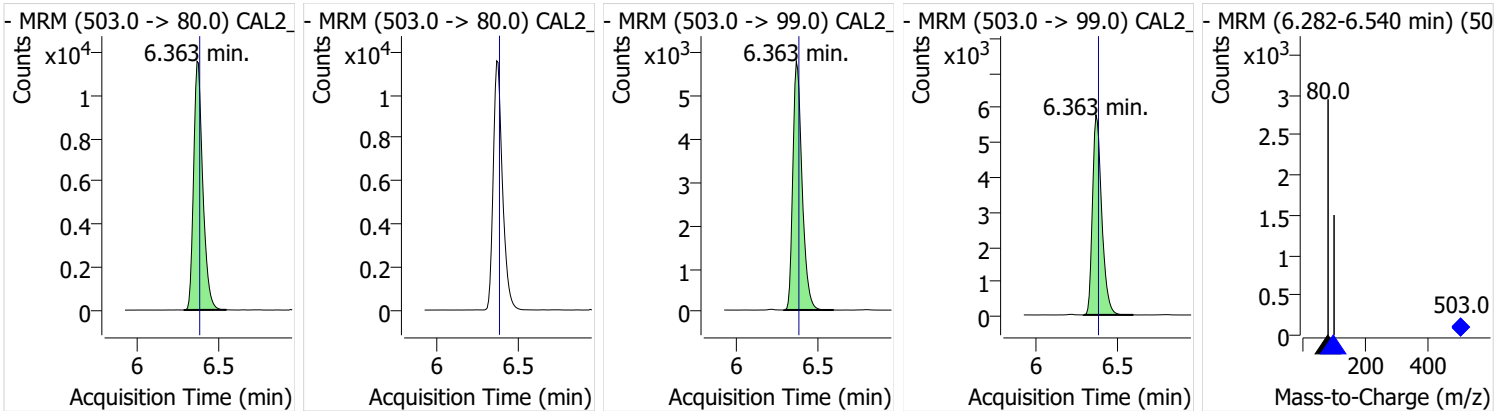
13C4-PFHpA - ISTD



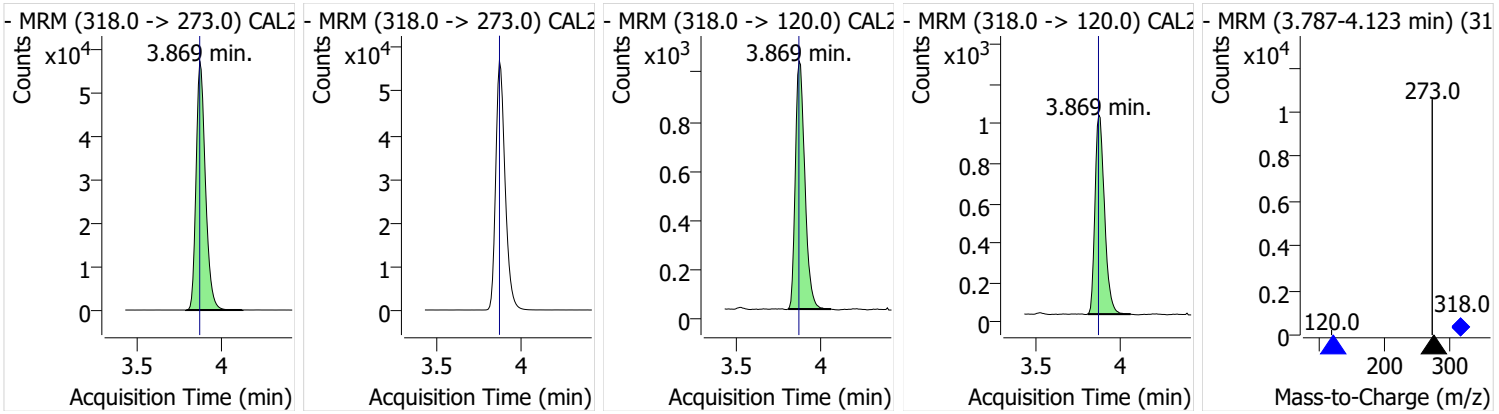
13C4-PFOA



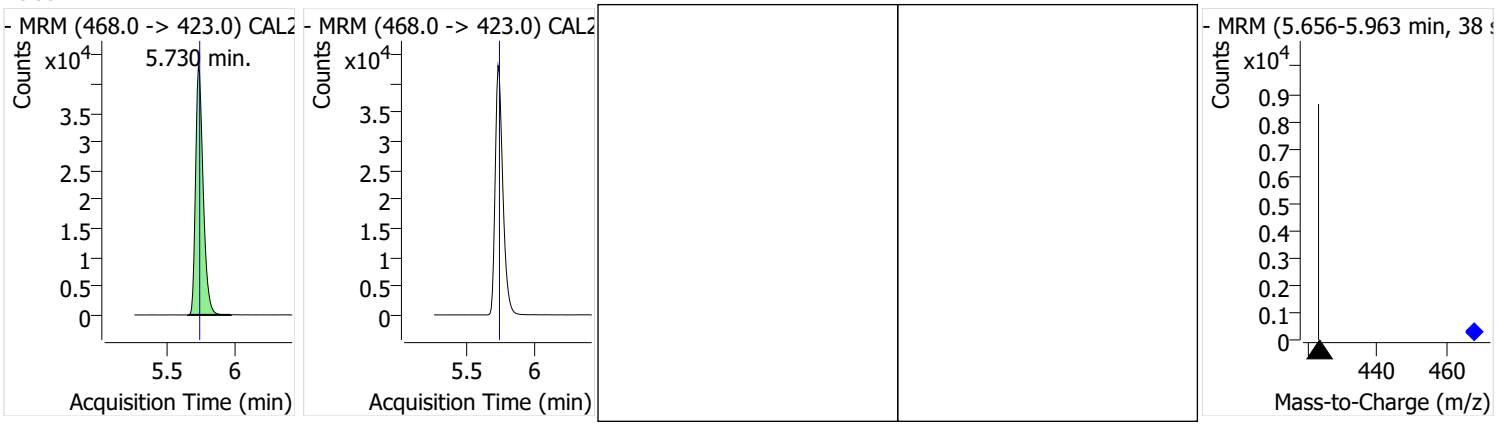
13C4-PFOS



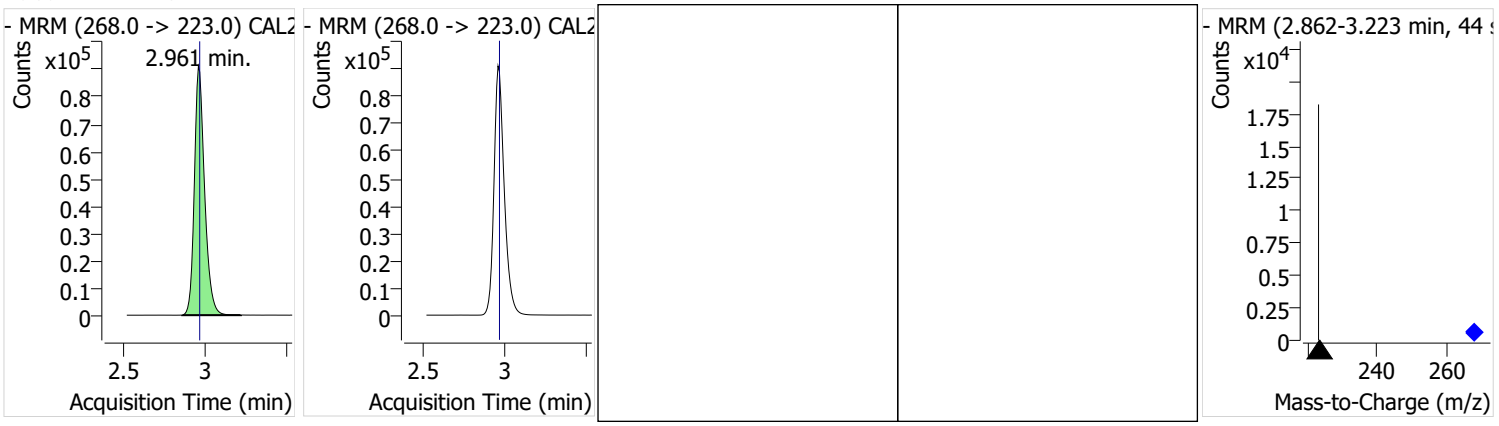
13C5-PFHxA - ISTD



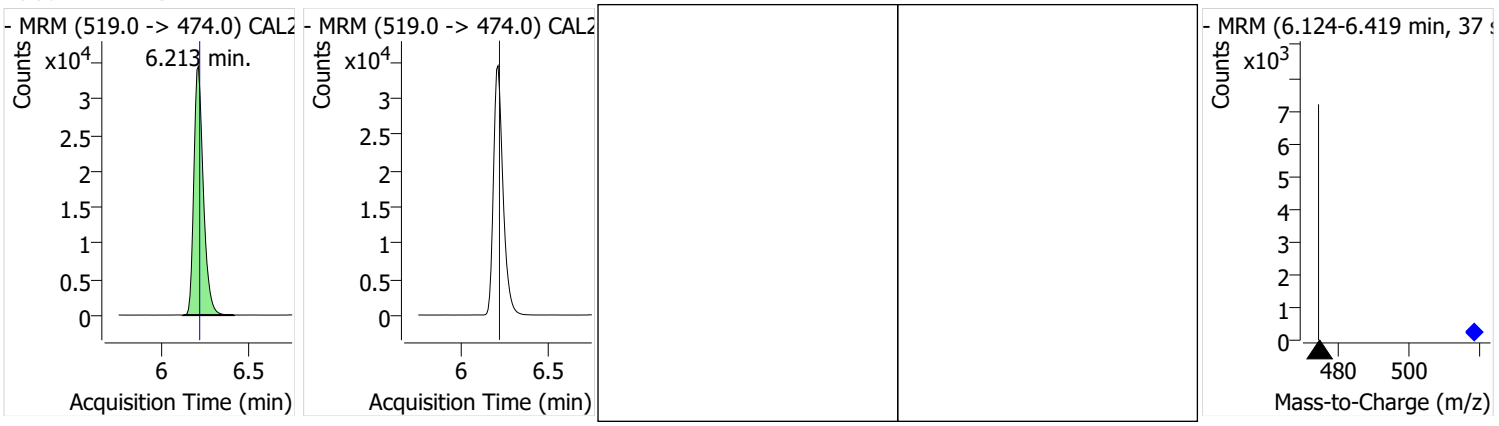
13C5-PFNA



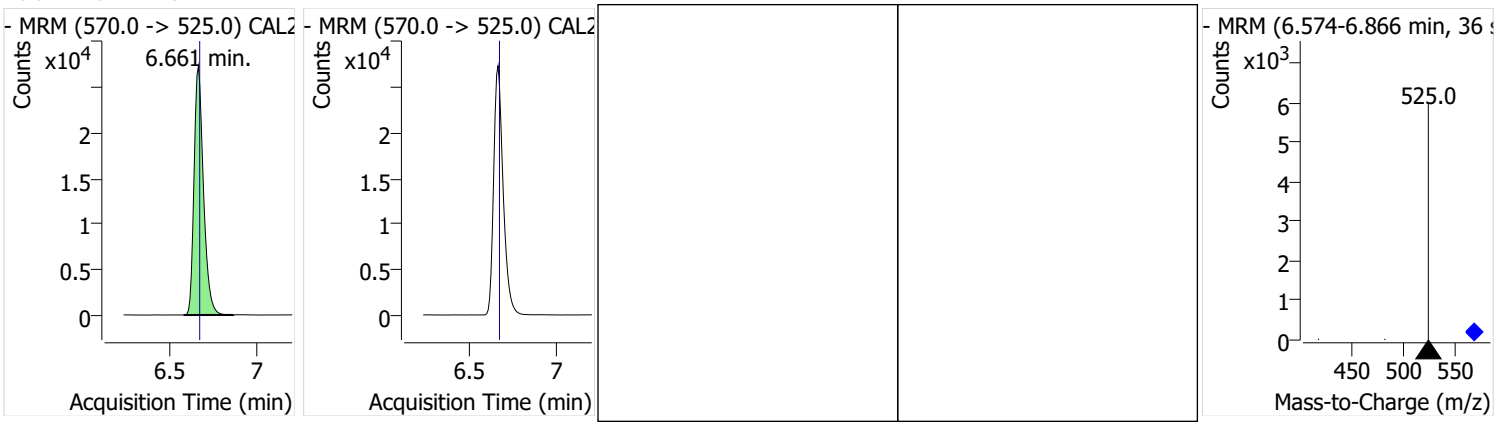
13C5-PFPeA - ISTD



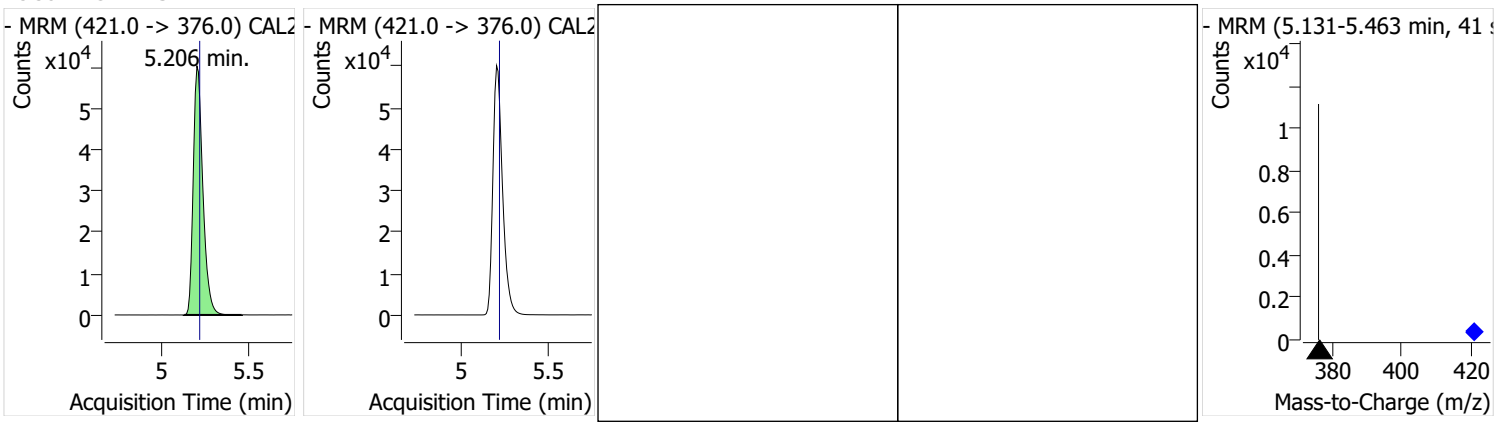
13C6-PFDA - ISTD



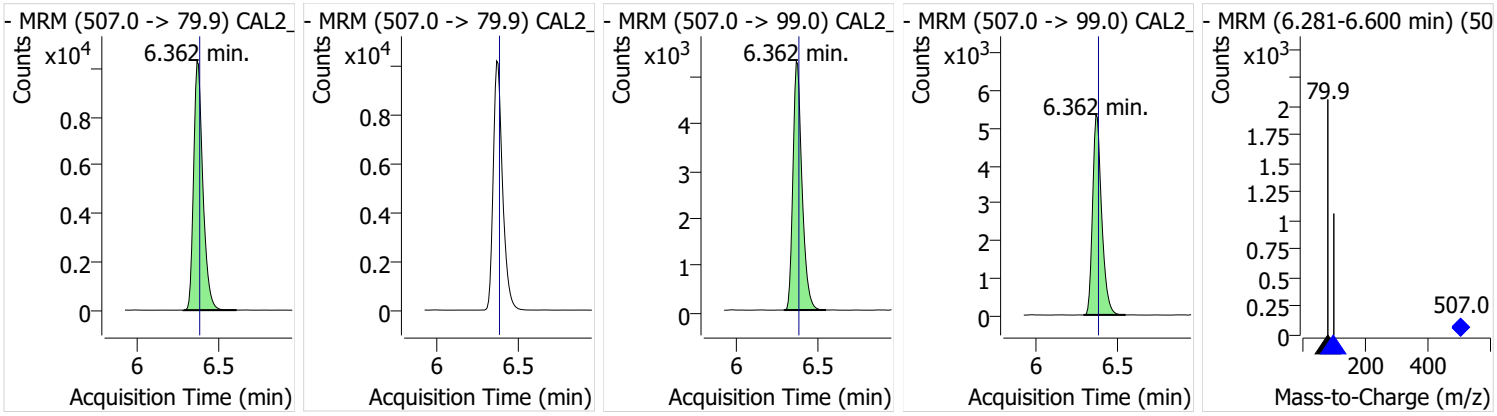
13C7-PFUnA - ISTD



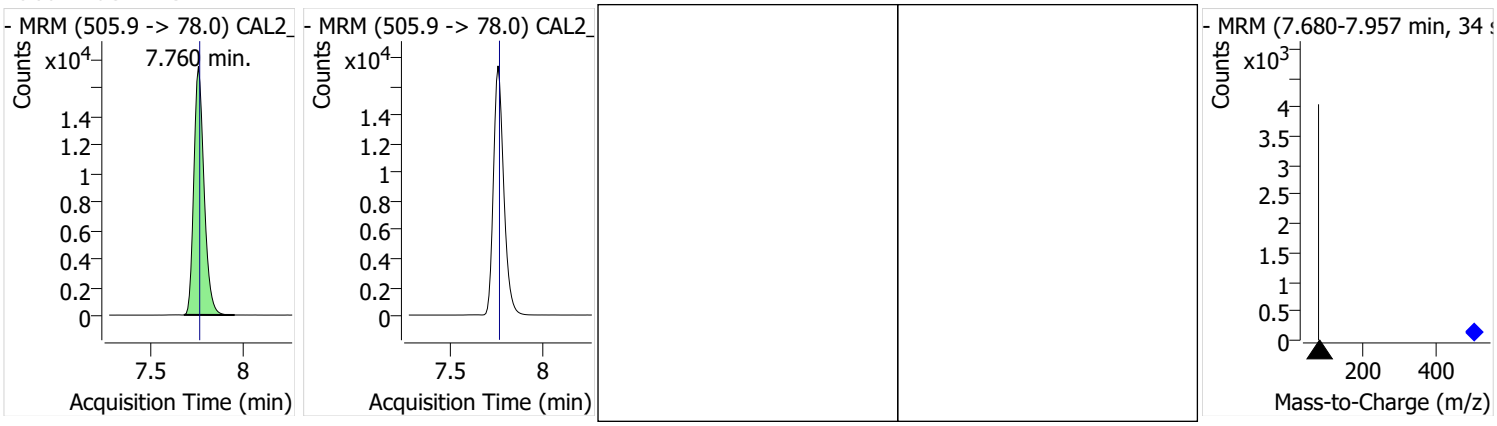
13C8-PFOA - ISTD



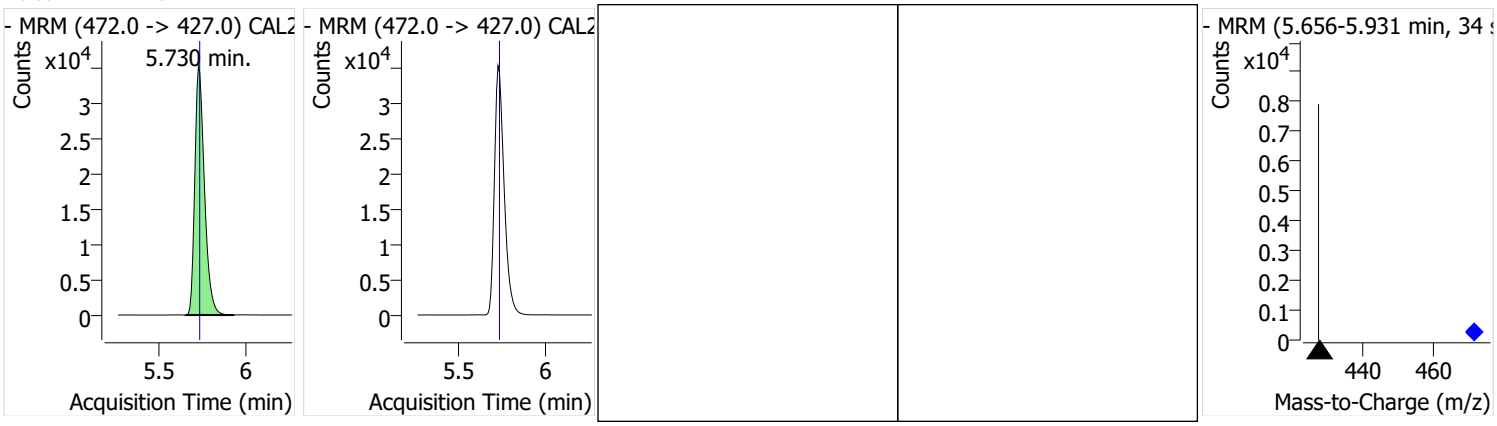
13C8-PFOS - ISTD



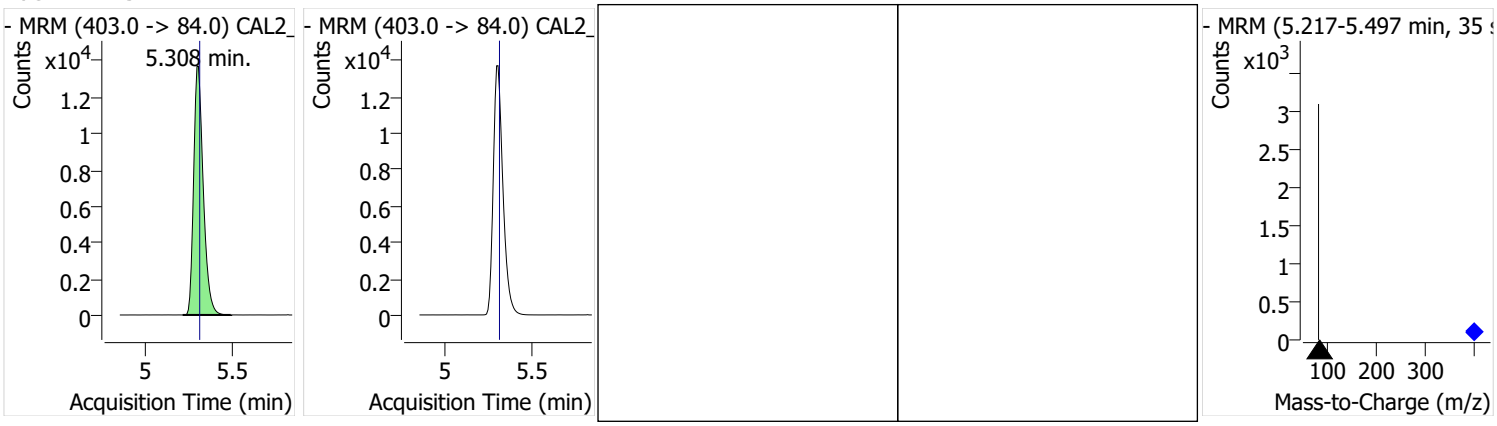
13C8-PFOSA - ISTD



13C9-PFNA - ISTD



18O2-PFHxS



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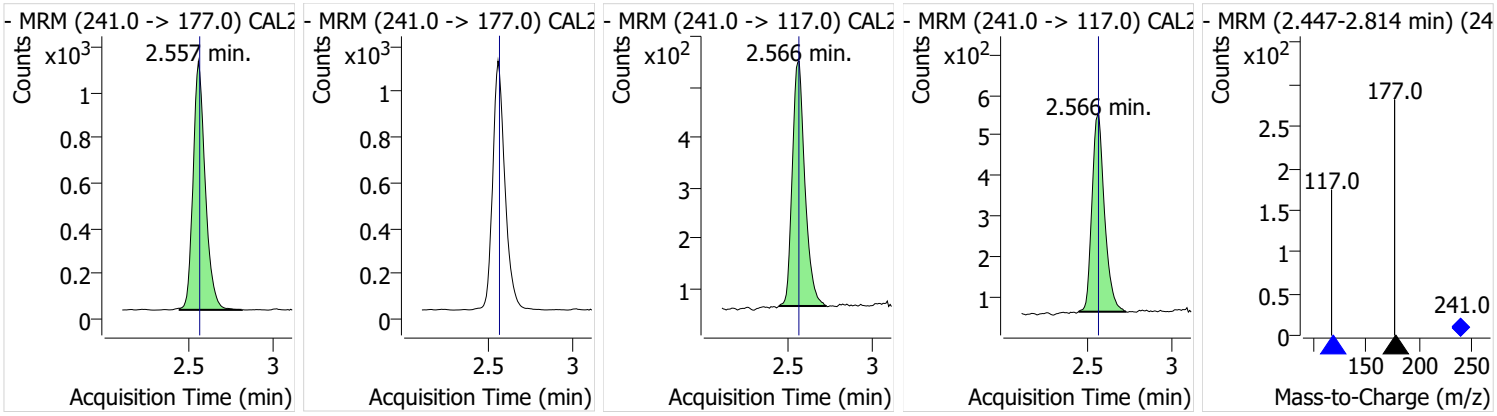
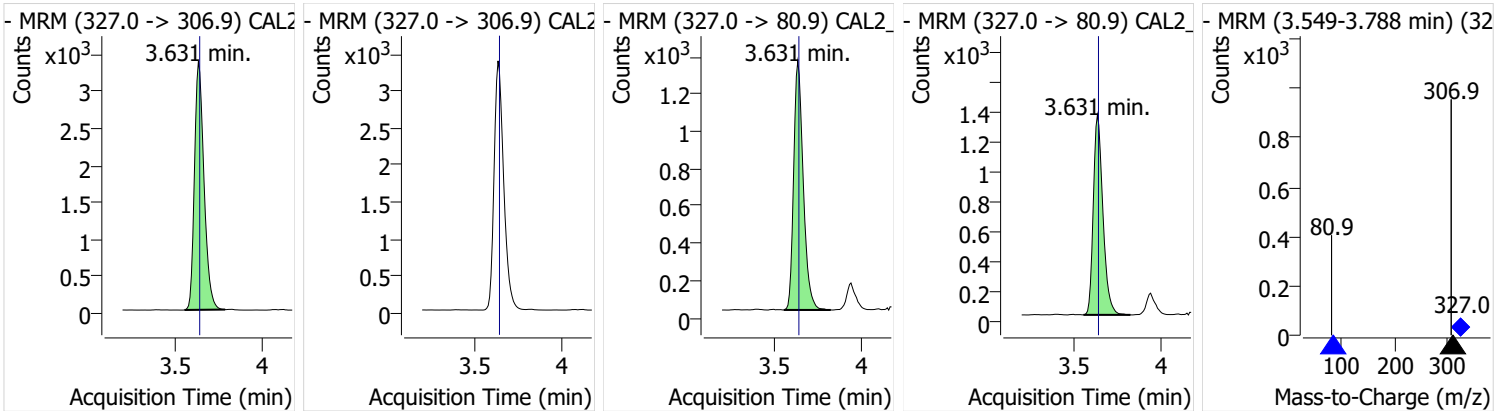


4:2FTS



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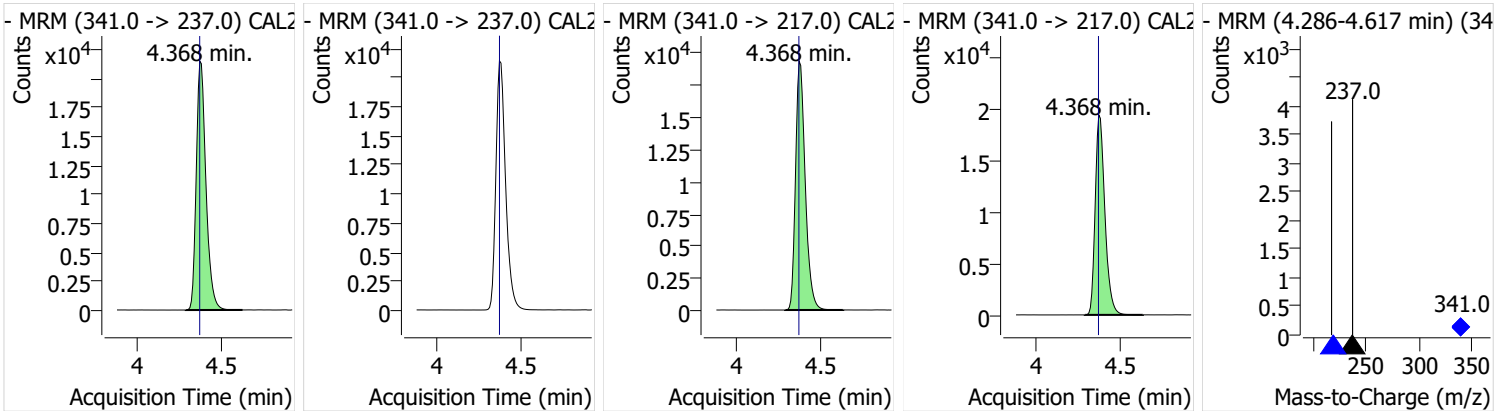

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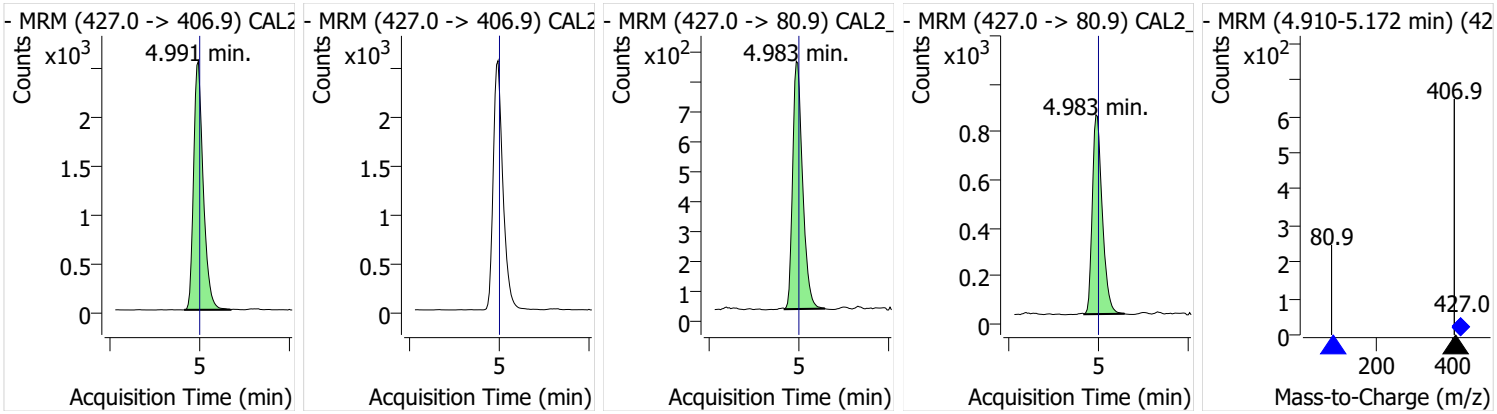
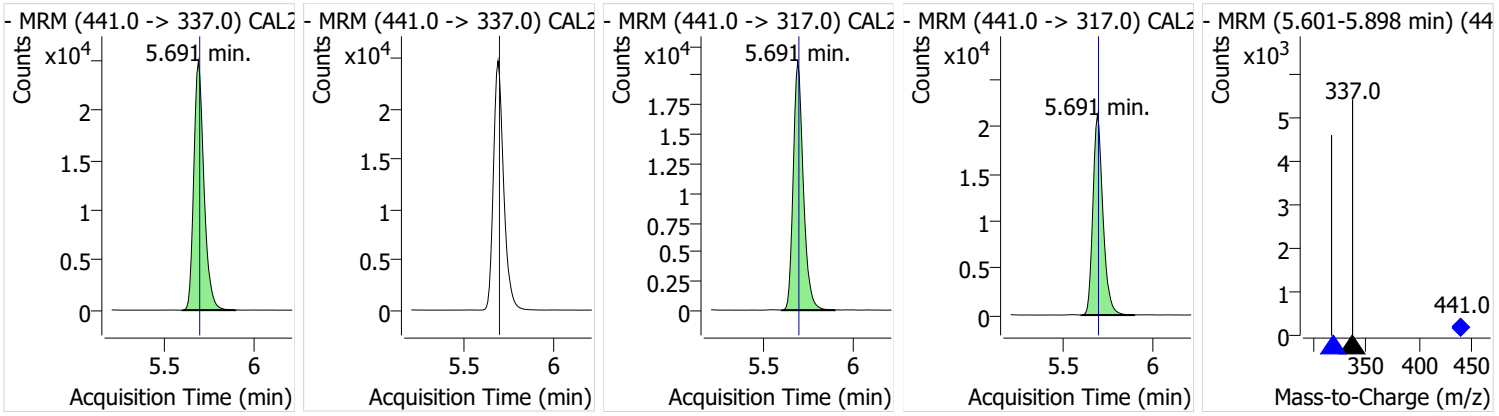


7:3FTCA



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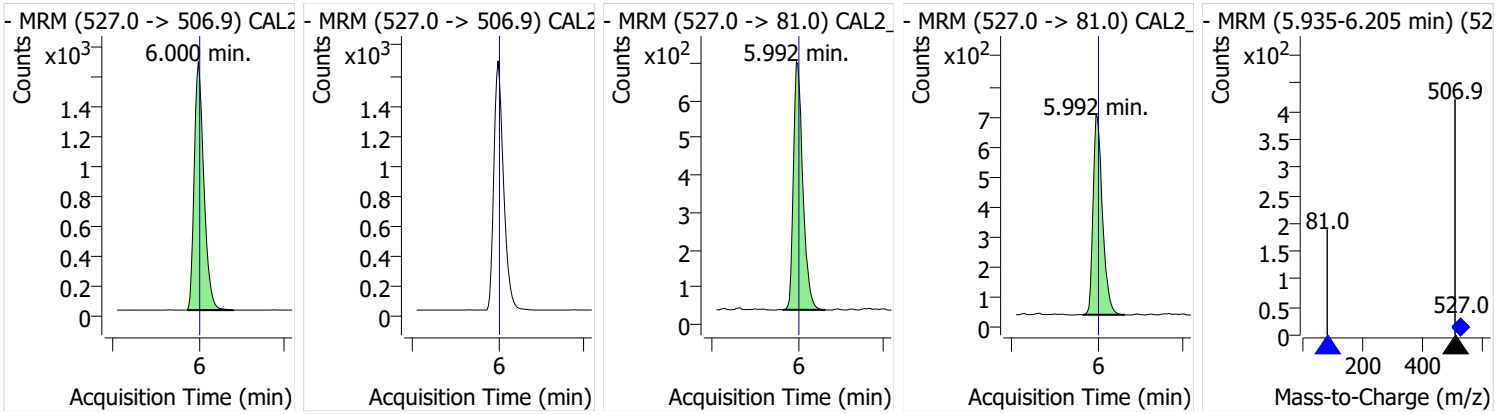
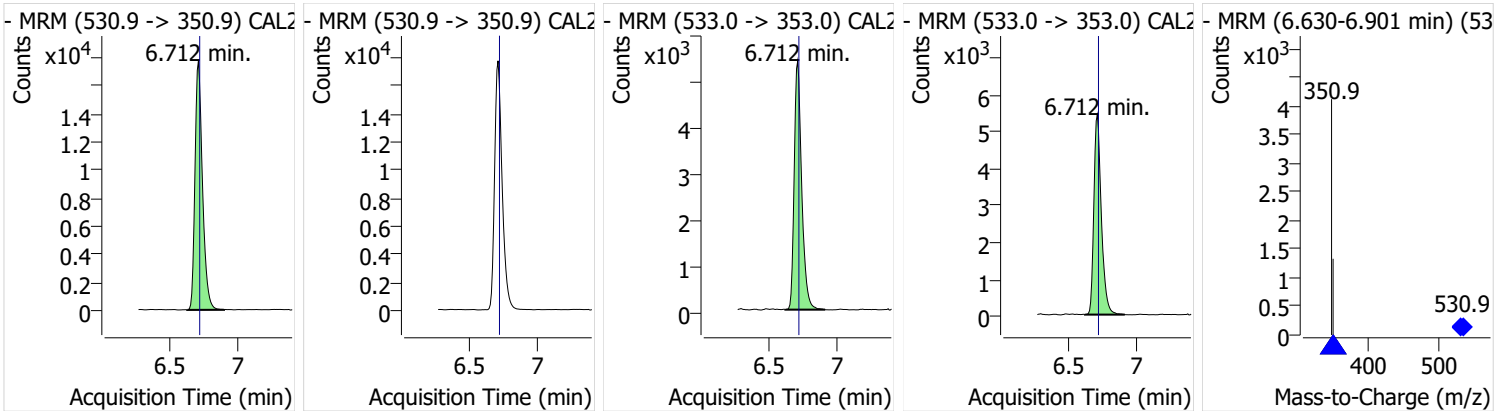


9Cl-PF3ONS



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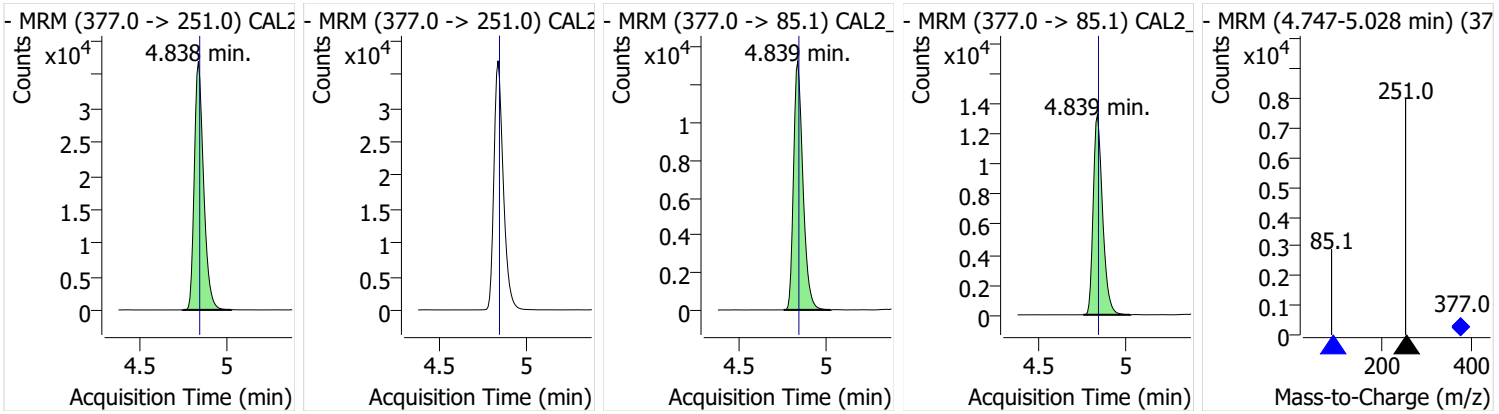
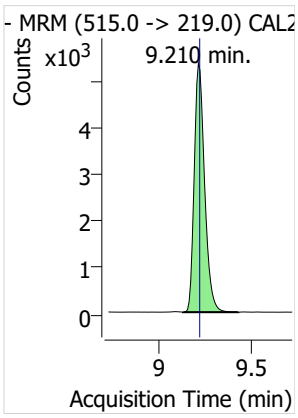
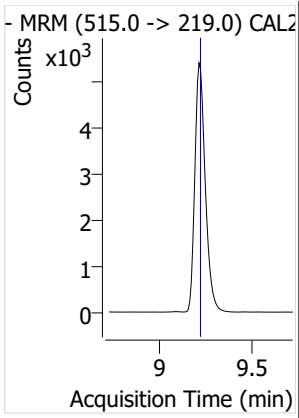
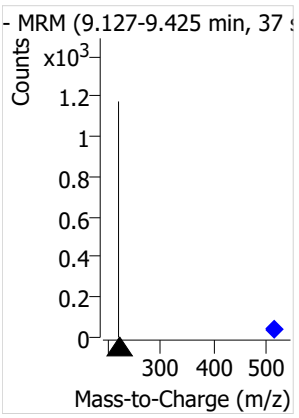


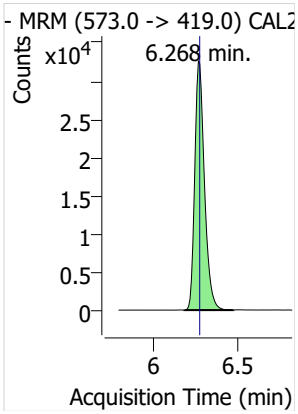
D3-NMeFOSA - ISTD

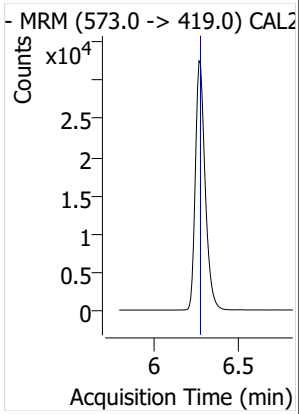


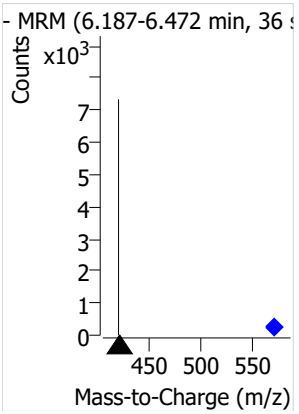




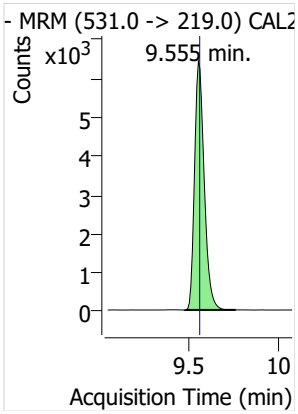
D3-NMeFOSAA - ISTD

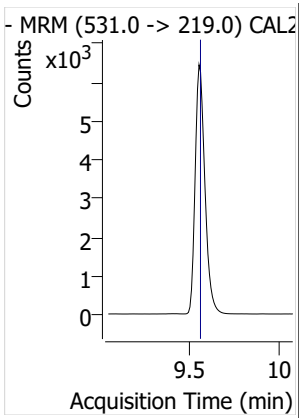


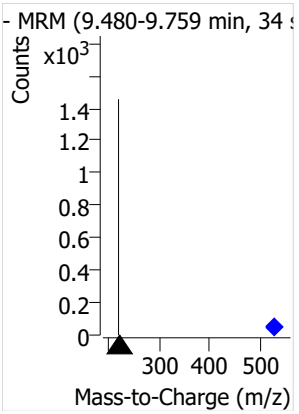




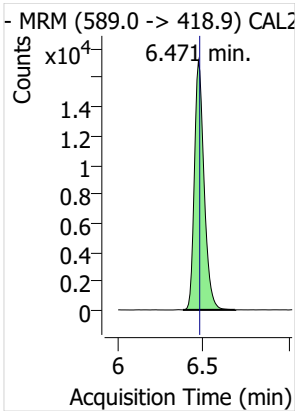
D5-NEtFOSA - ISTD

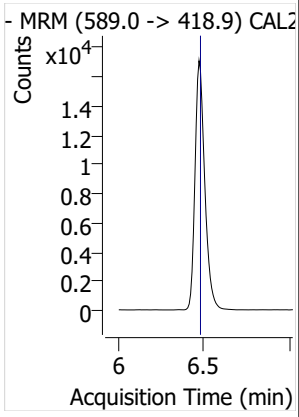


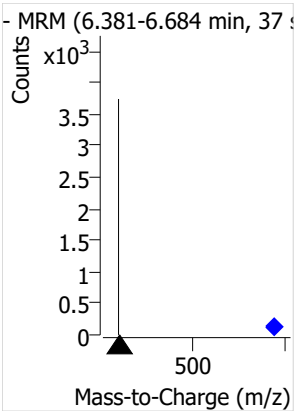




D5-NEtFOSAA - ISTD

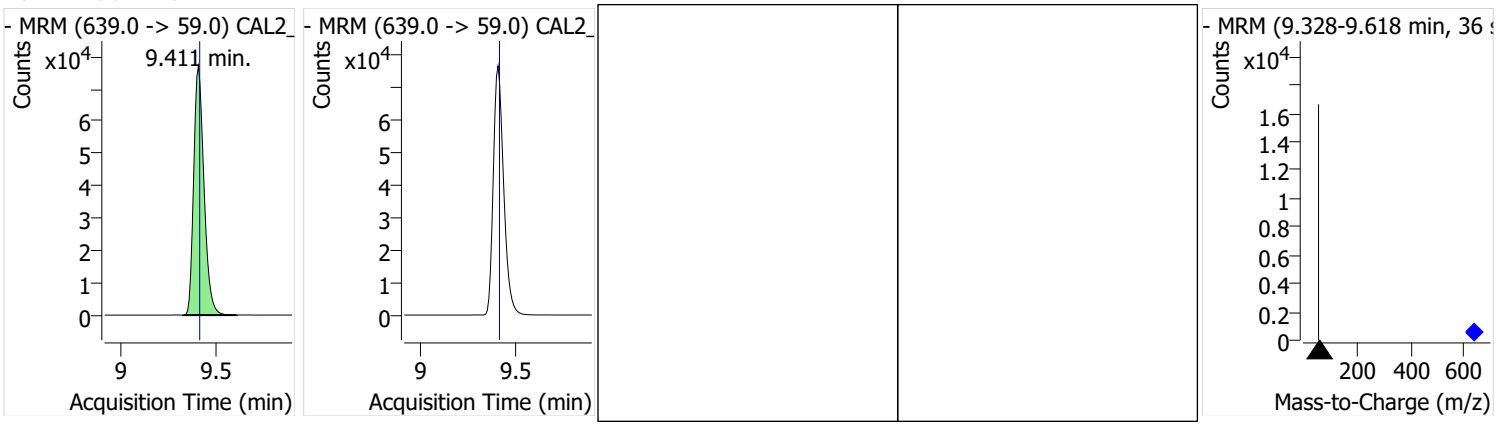




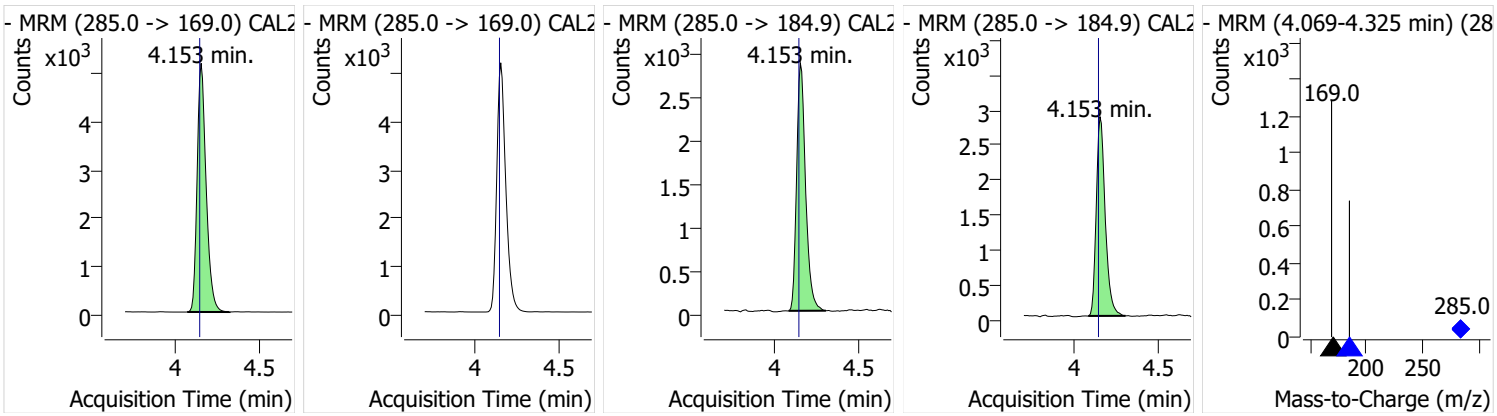


D7-NMeFOSE - ISTD

D9-NEtFOSE - ISTD



HFPO-DA



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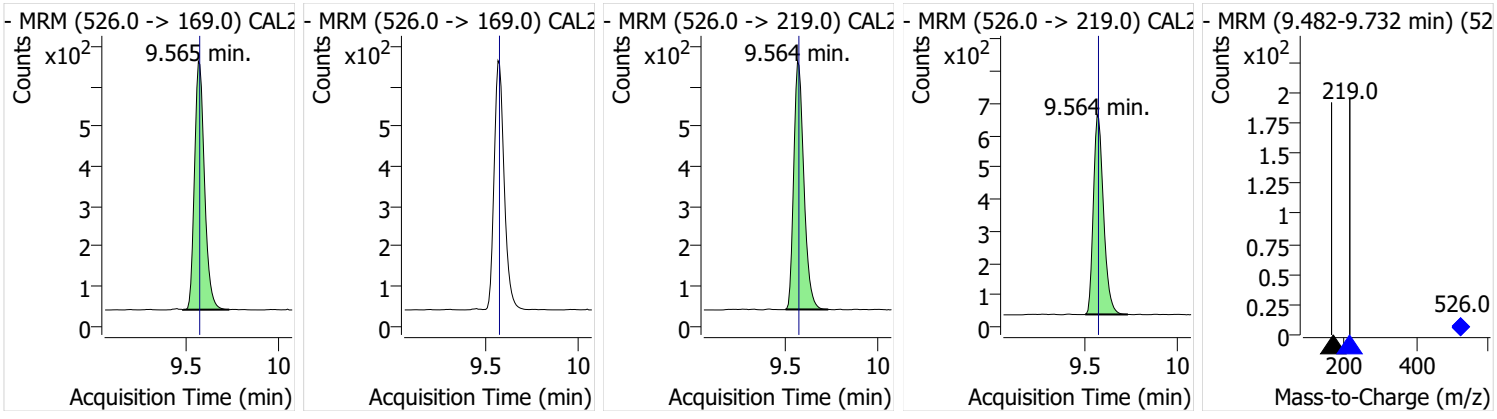

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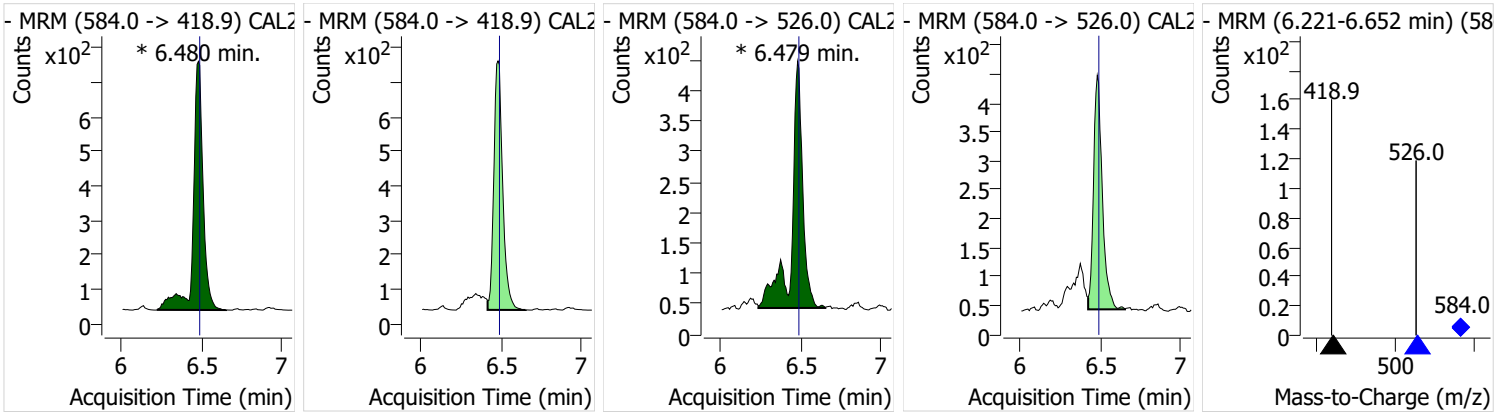

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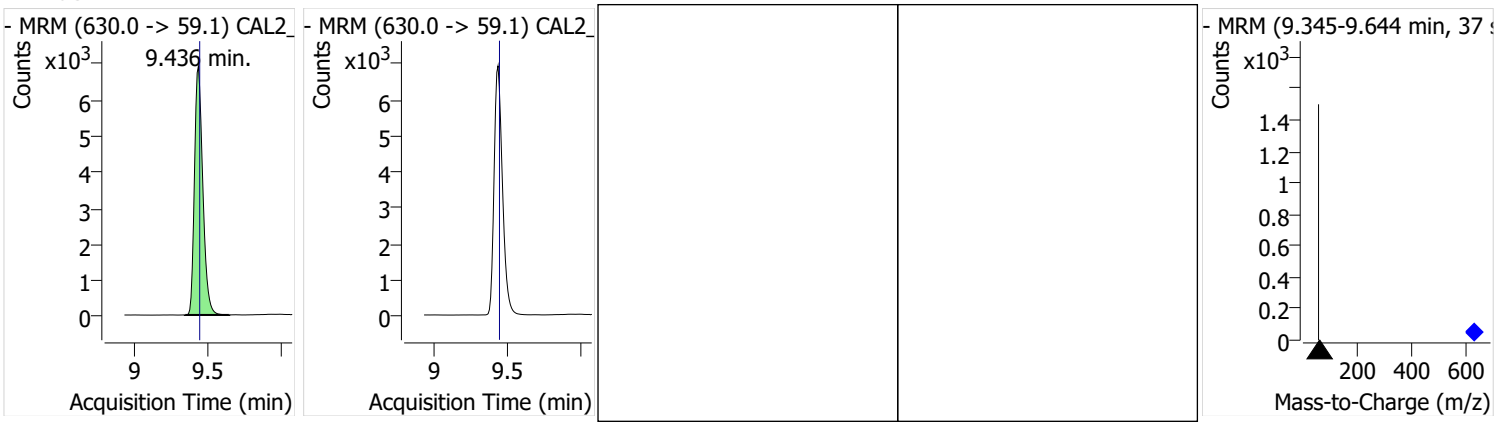

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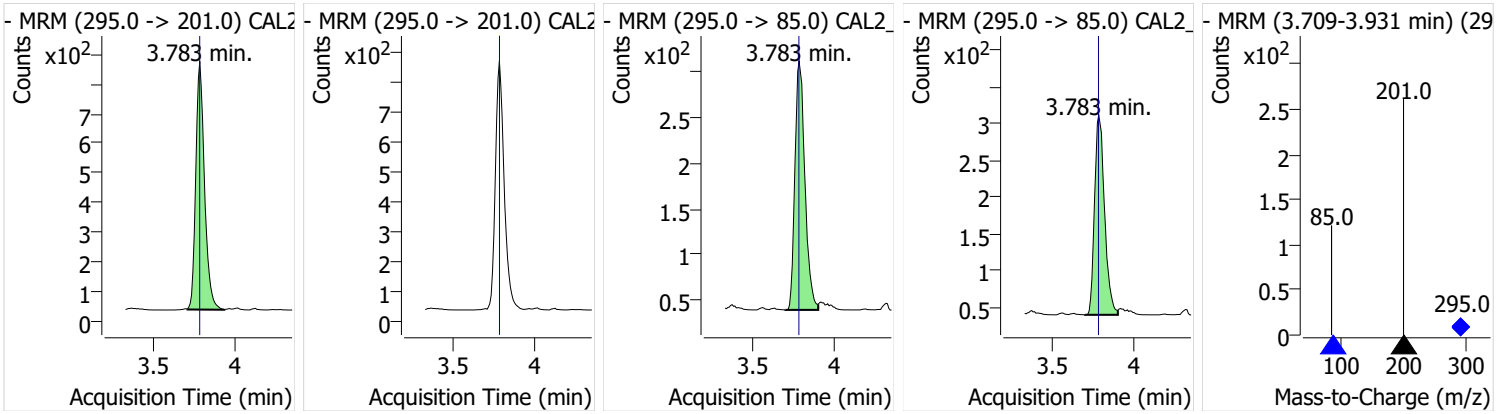

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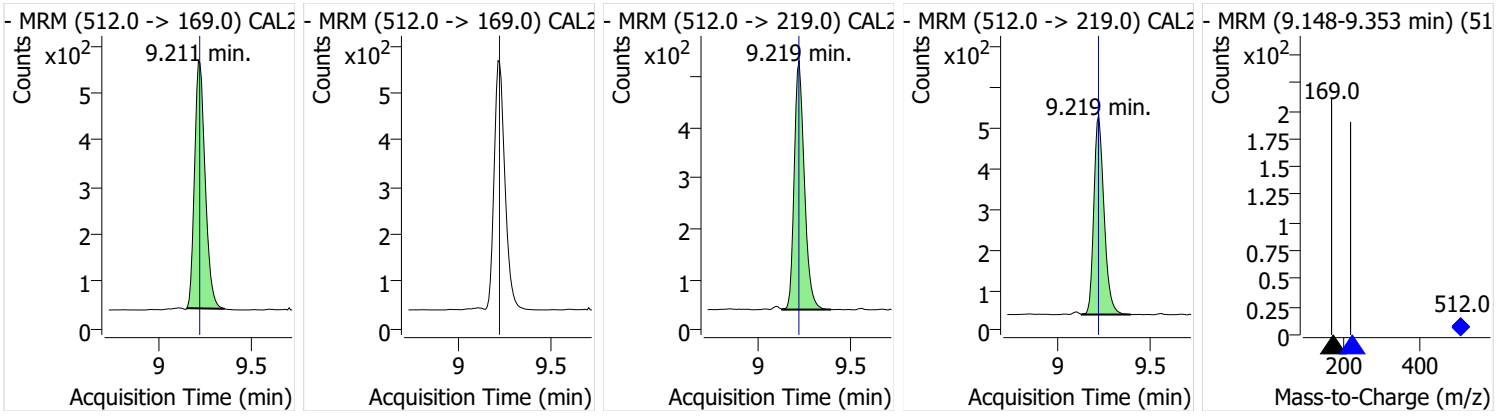

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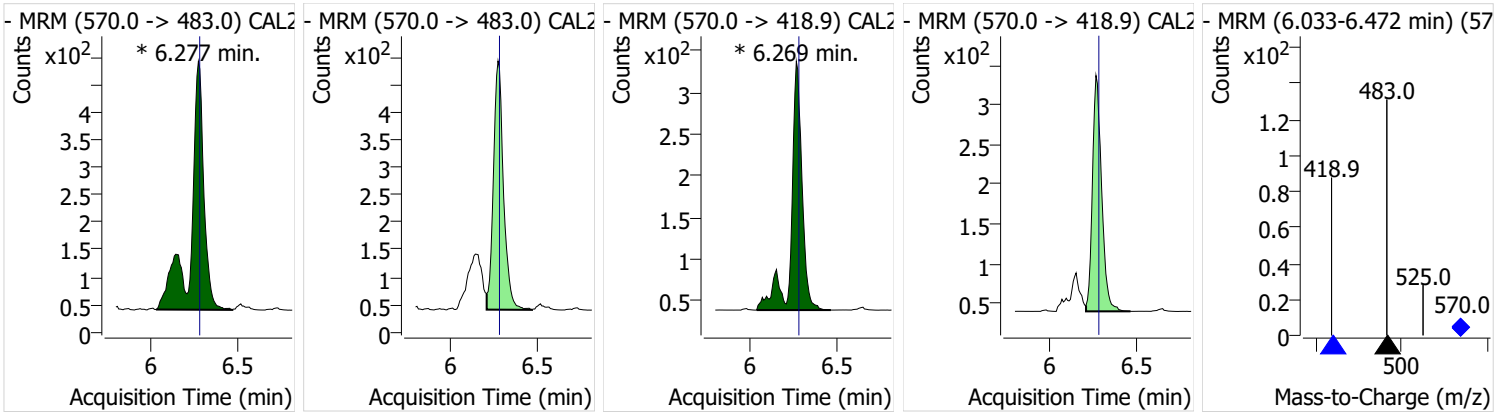

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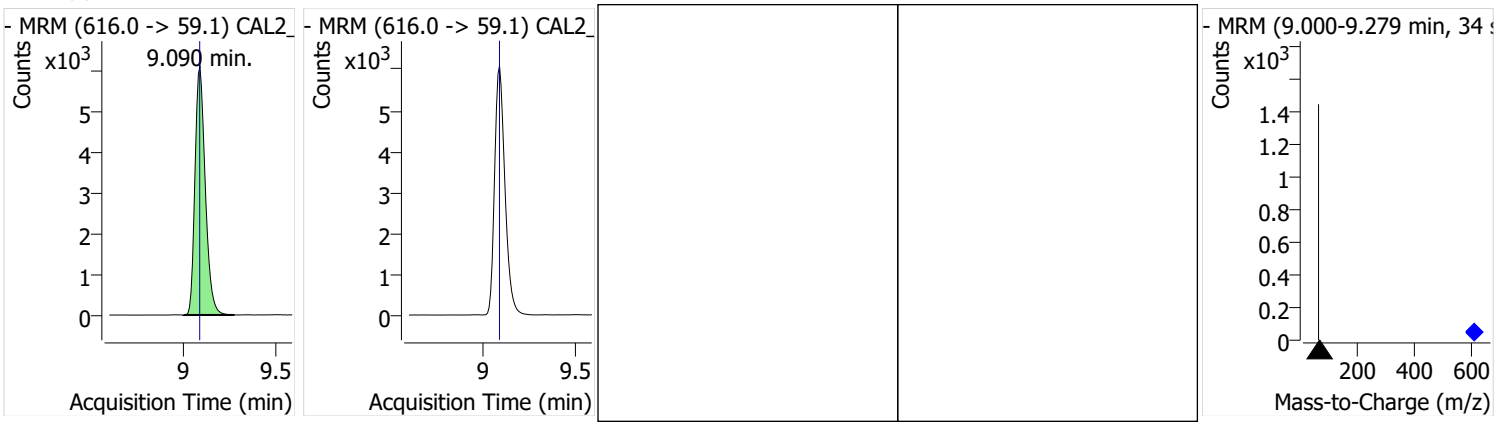

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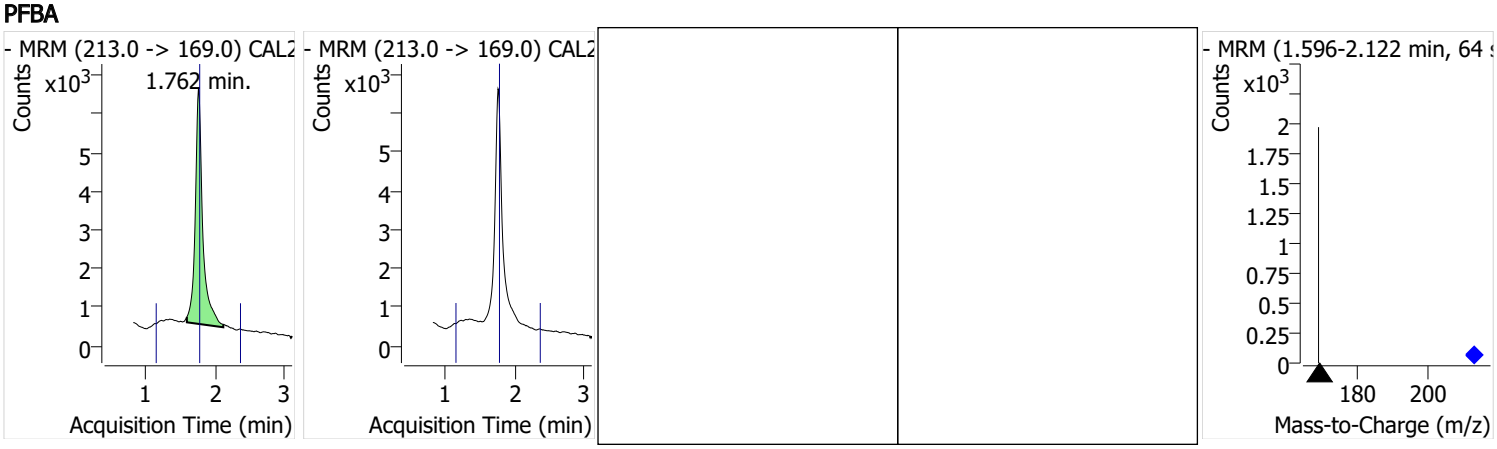

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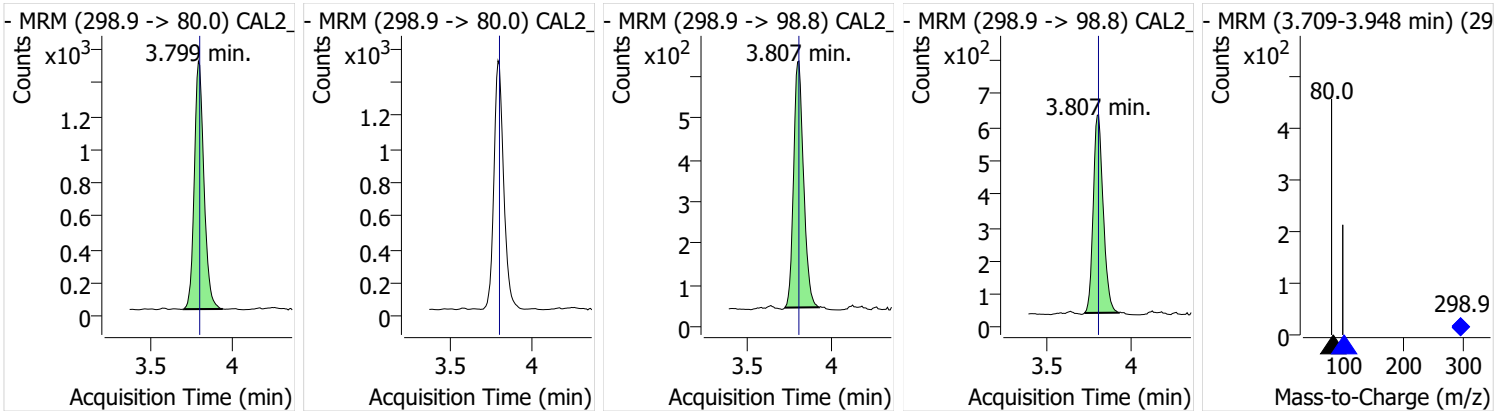
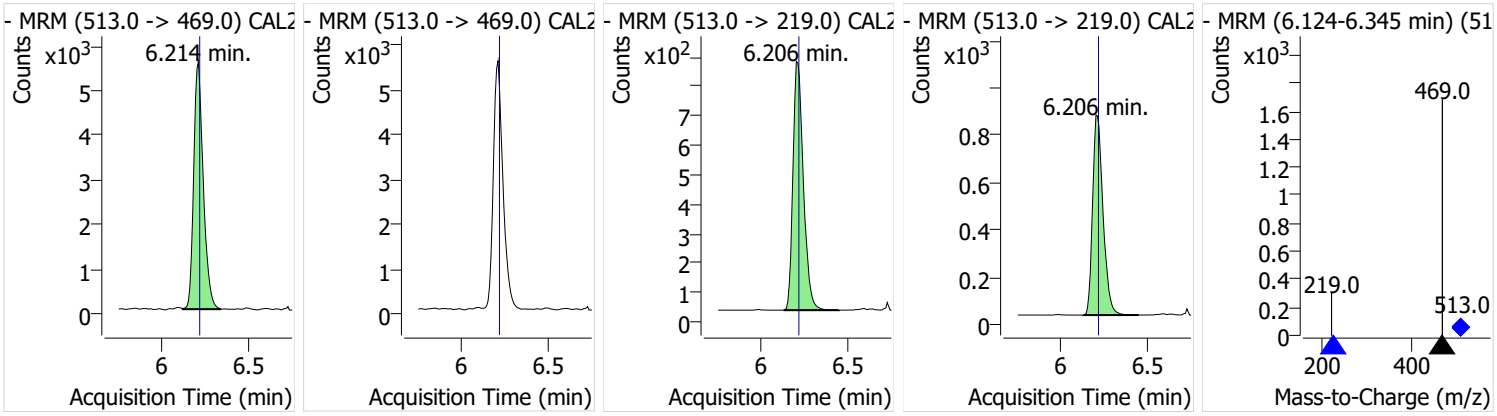


PFDA



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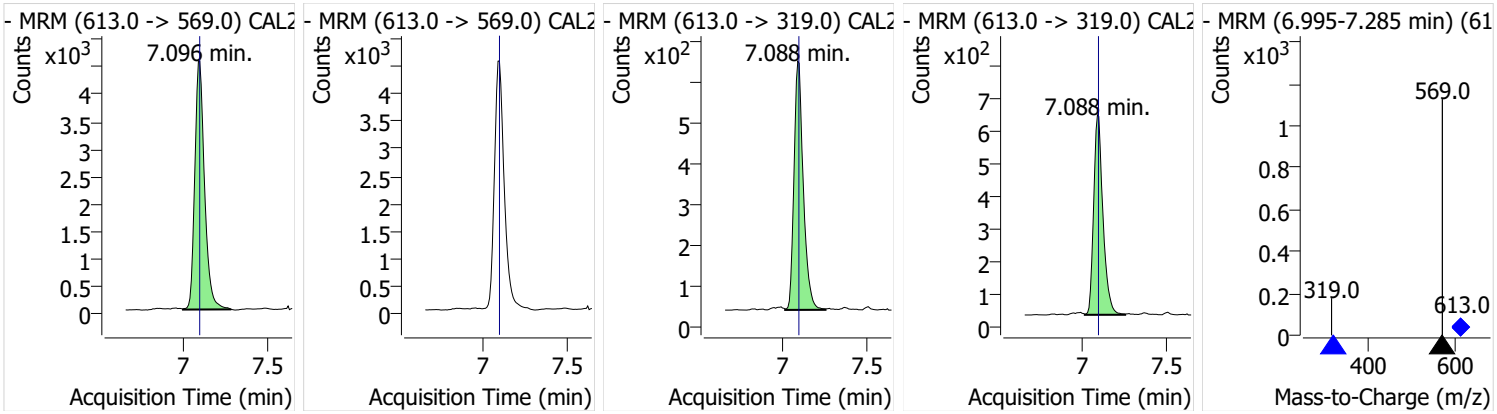

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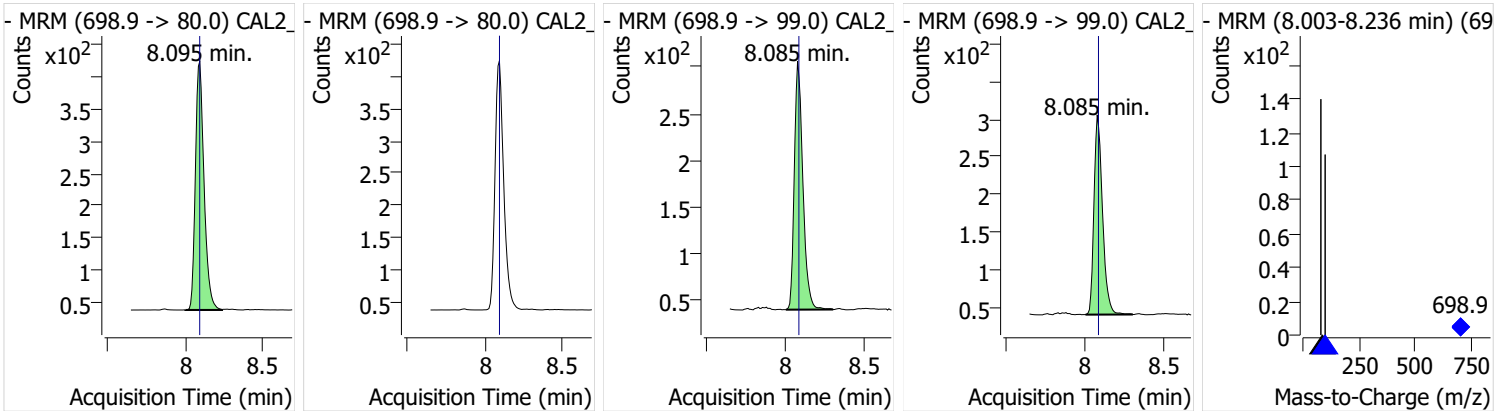

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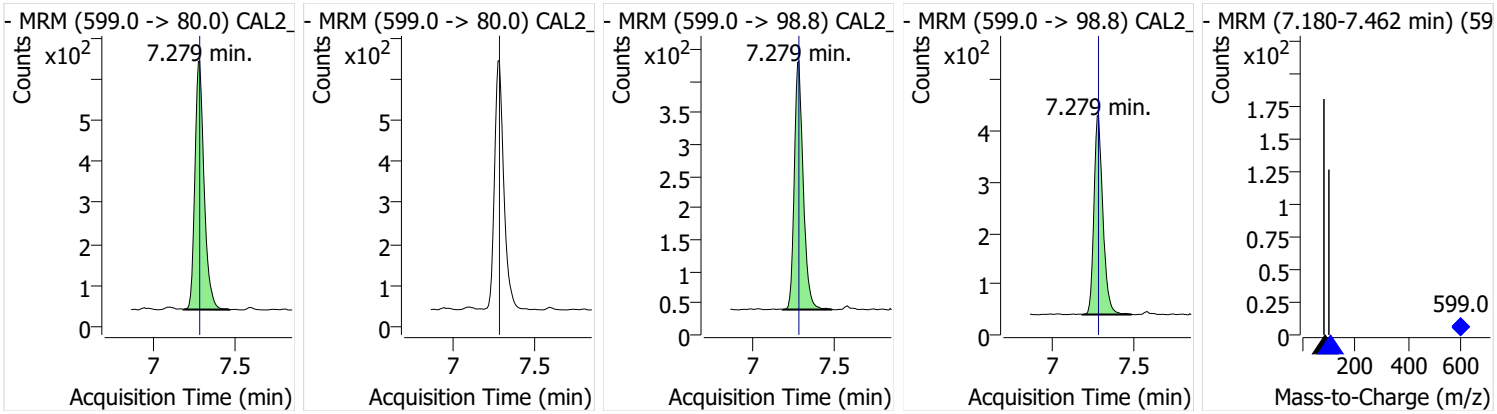

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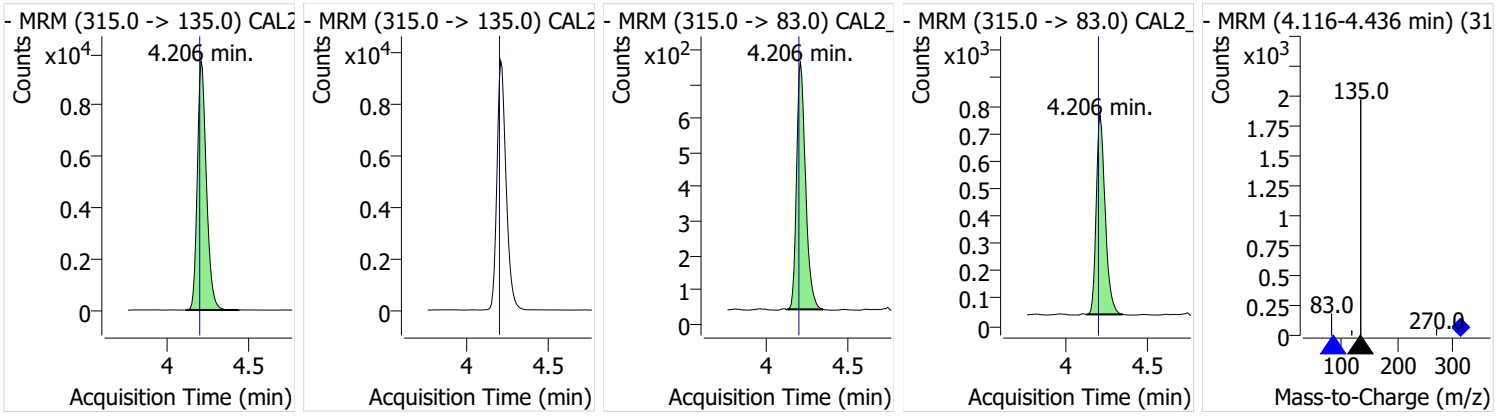

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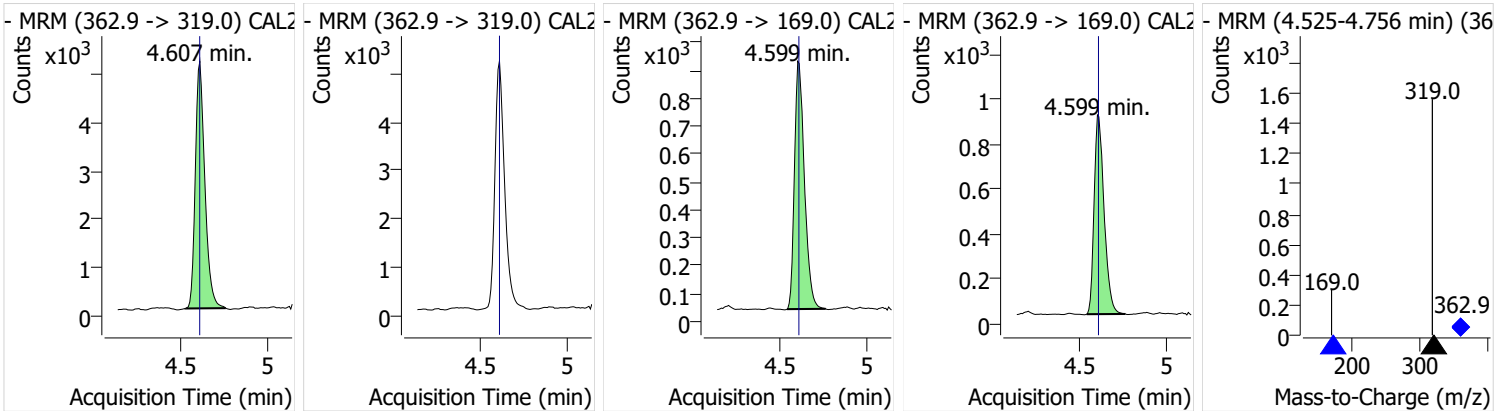
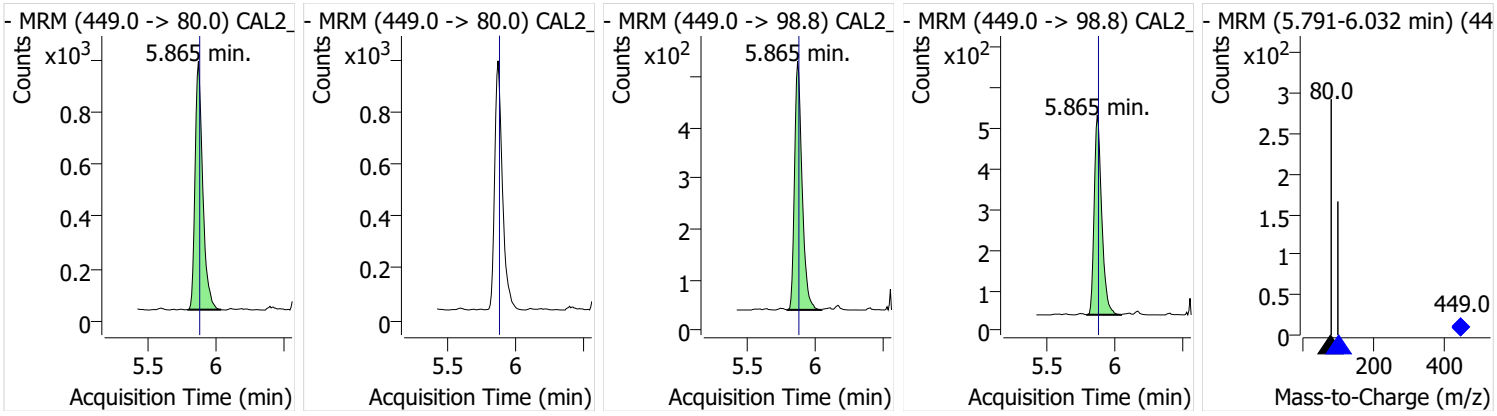


PFHpS



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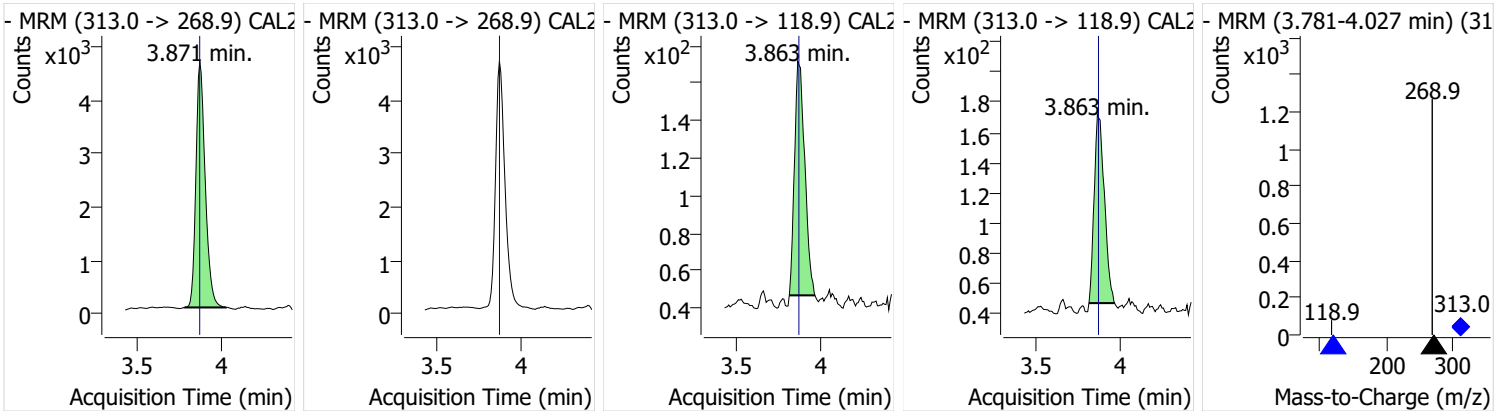

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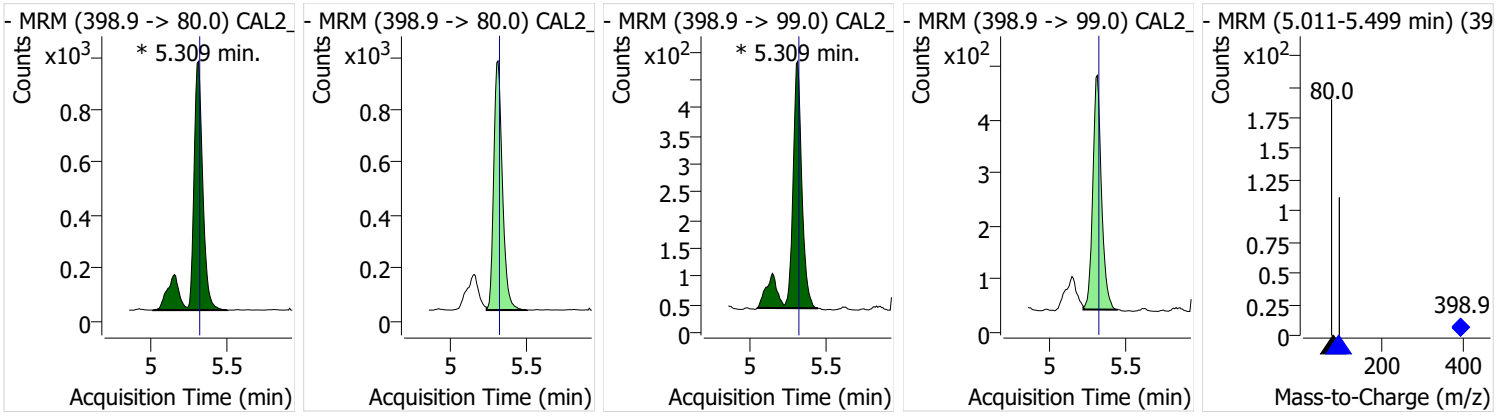

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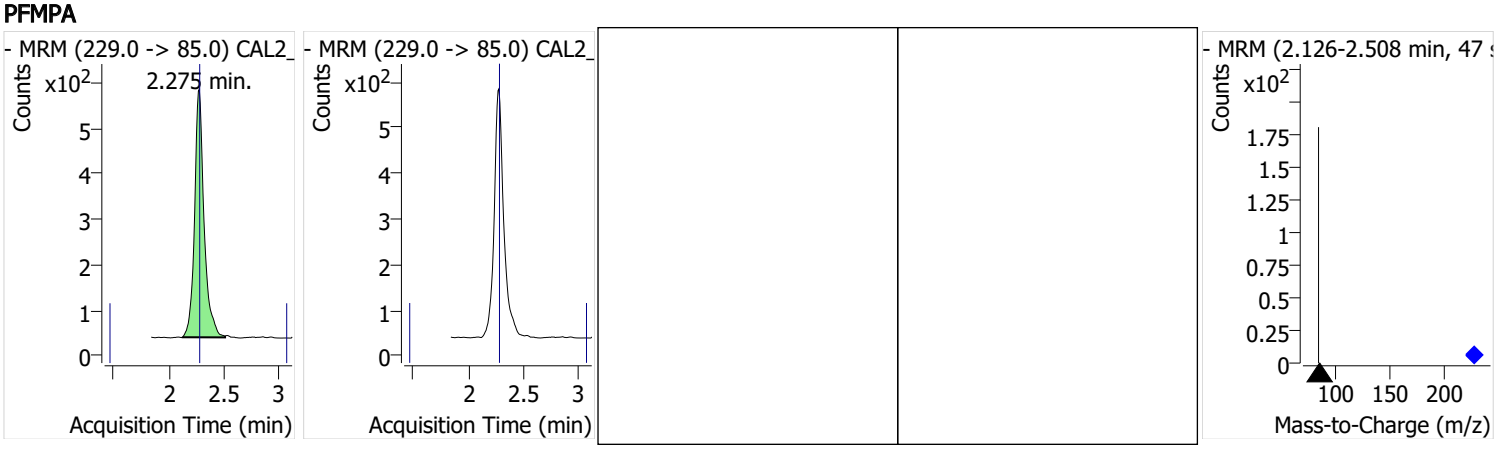
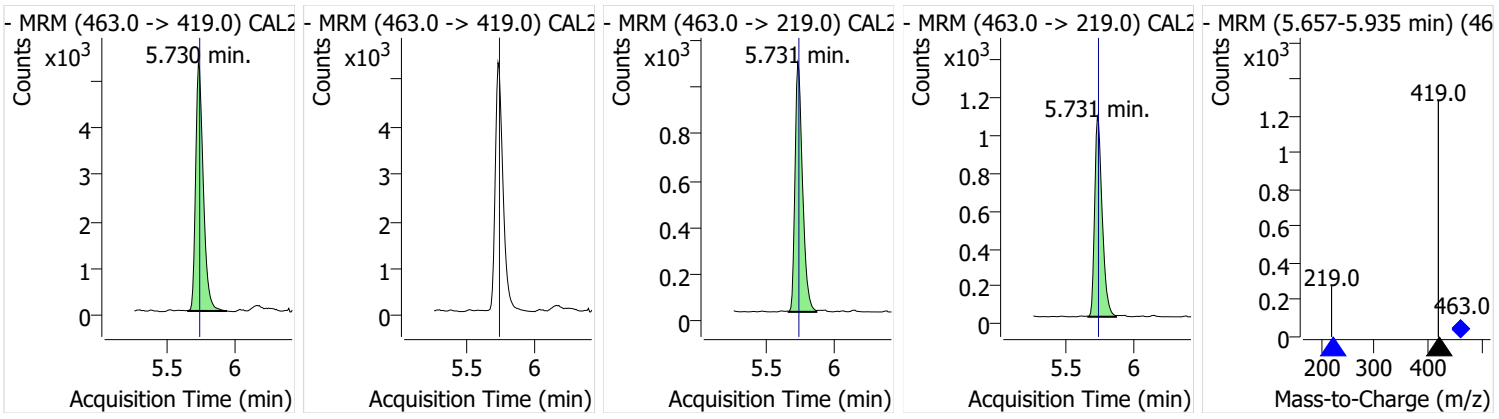


PFNA



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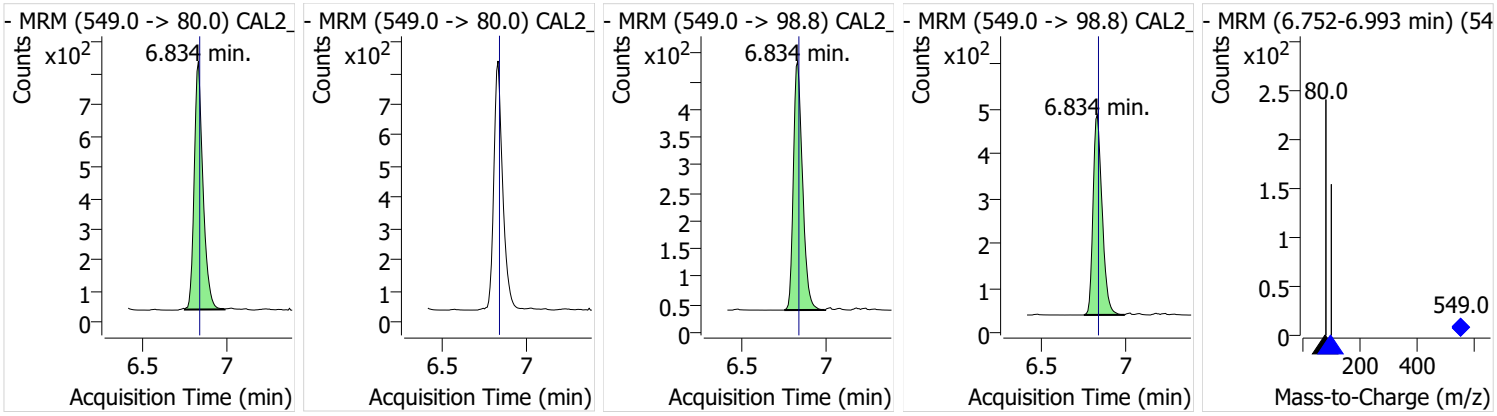
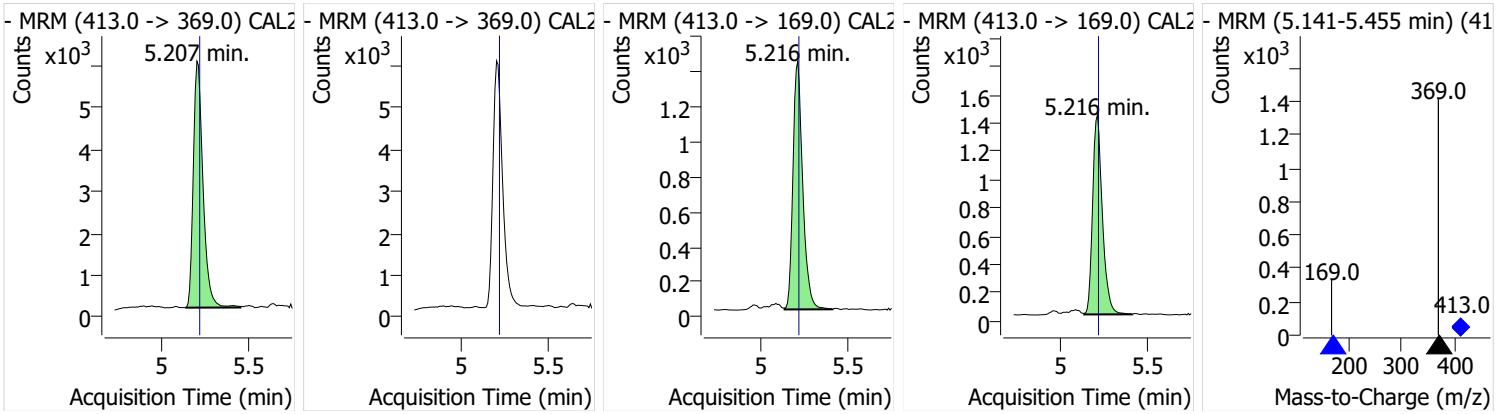
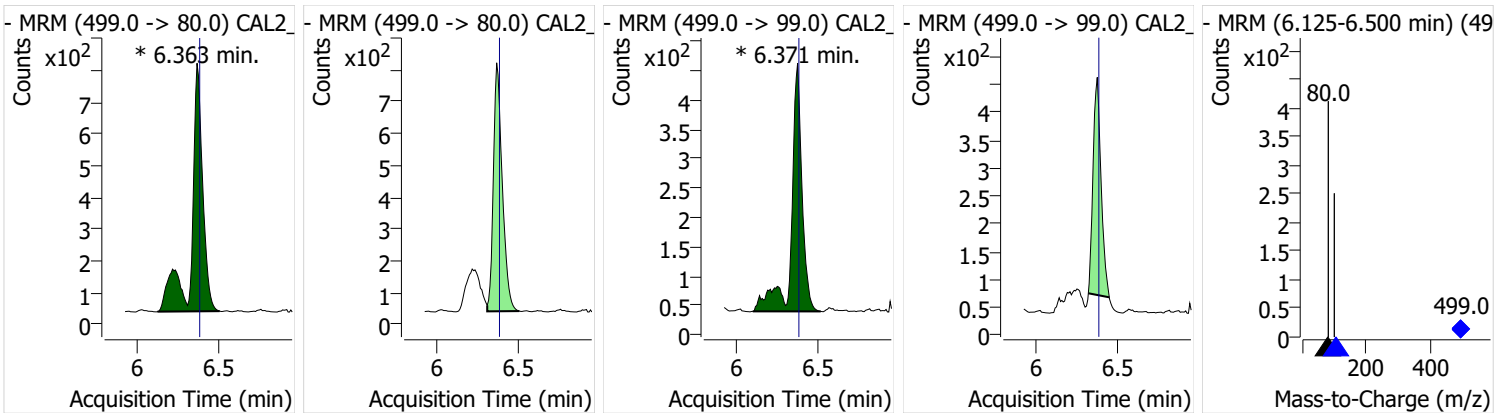


PFOA



PFOS



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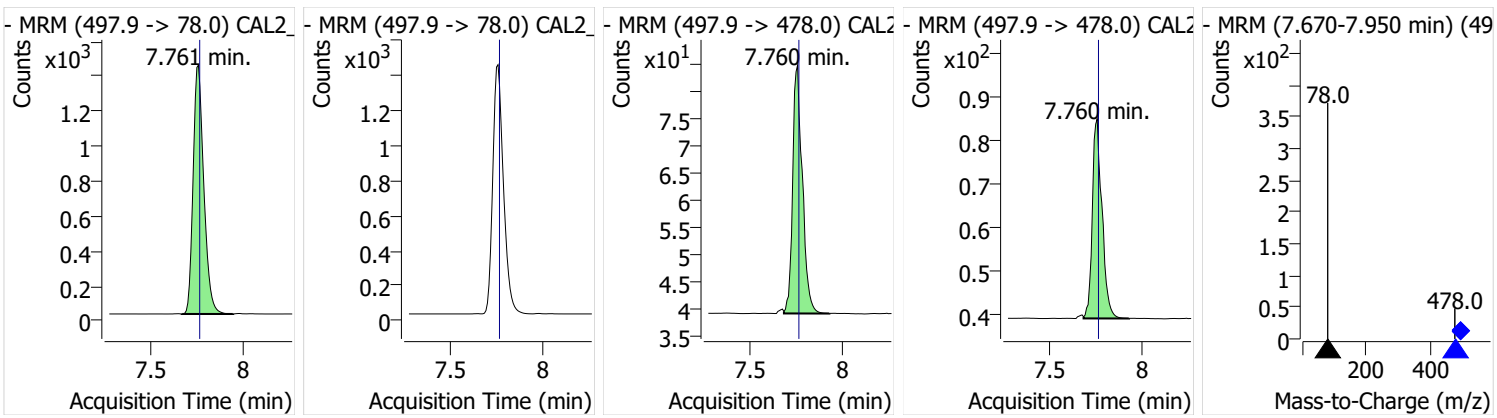
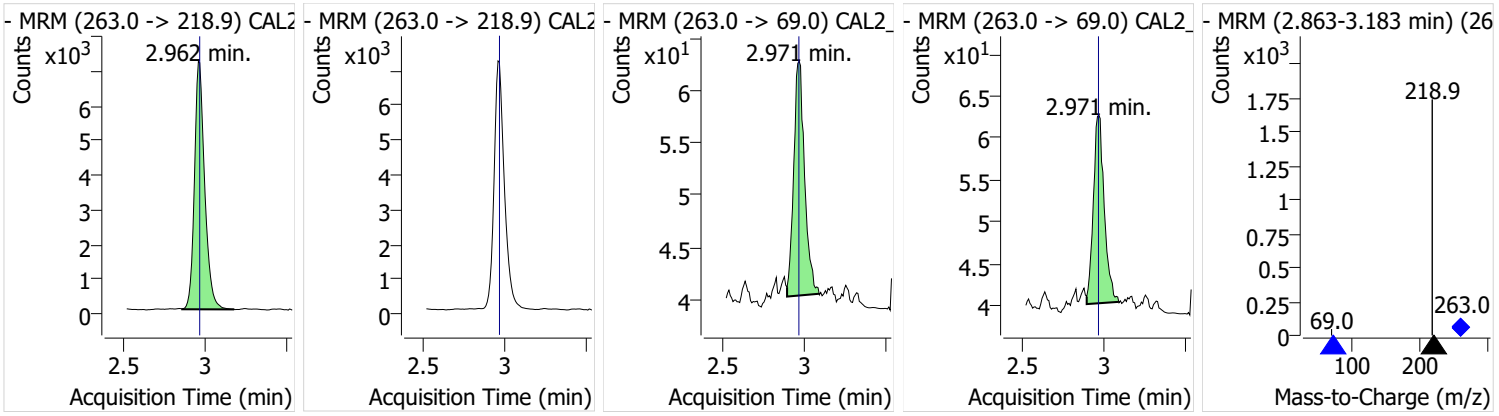


PFPeA



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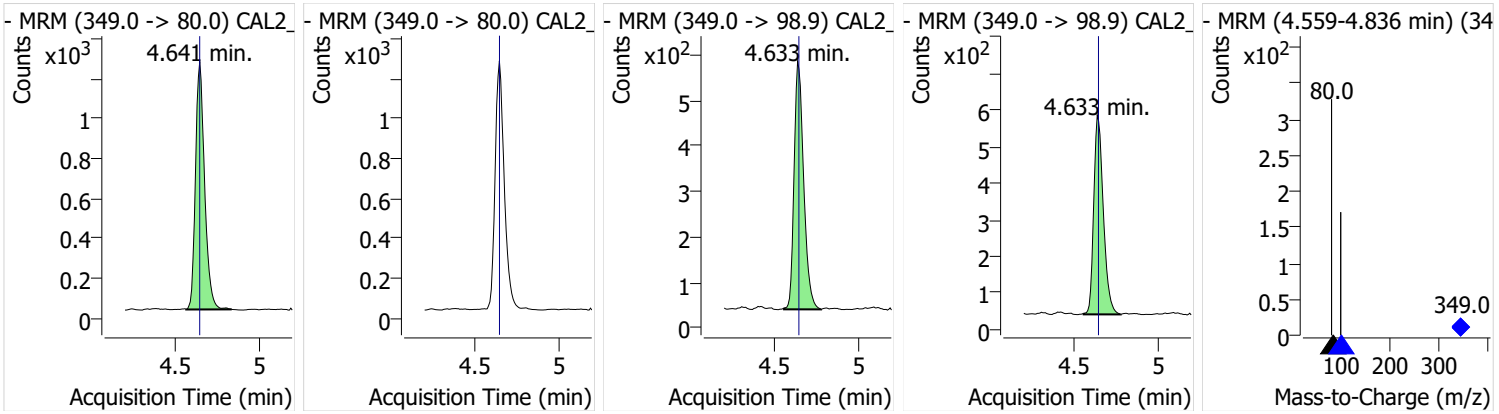

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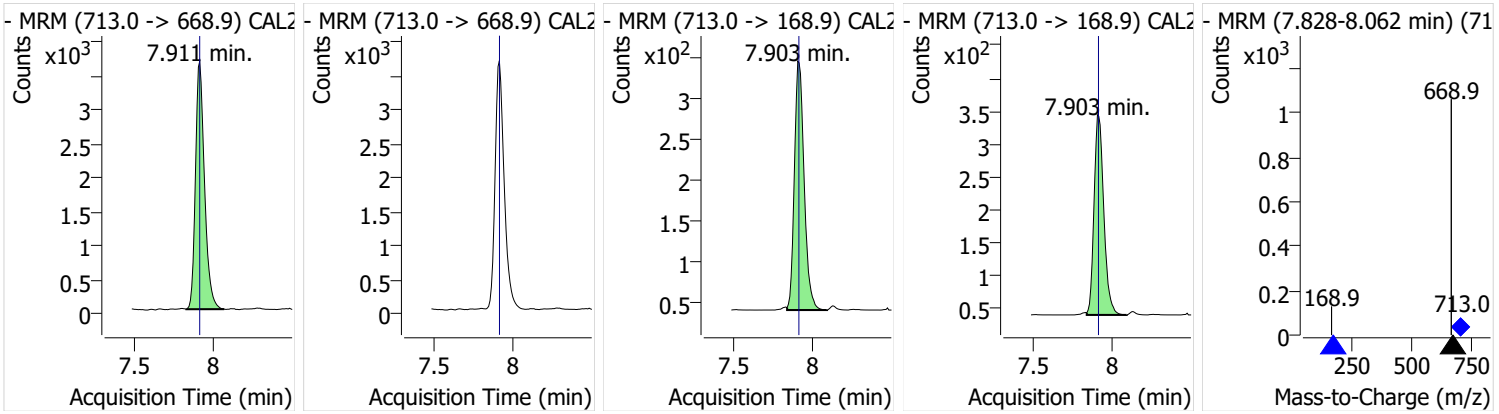

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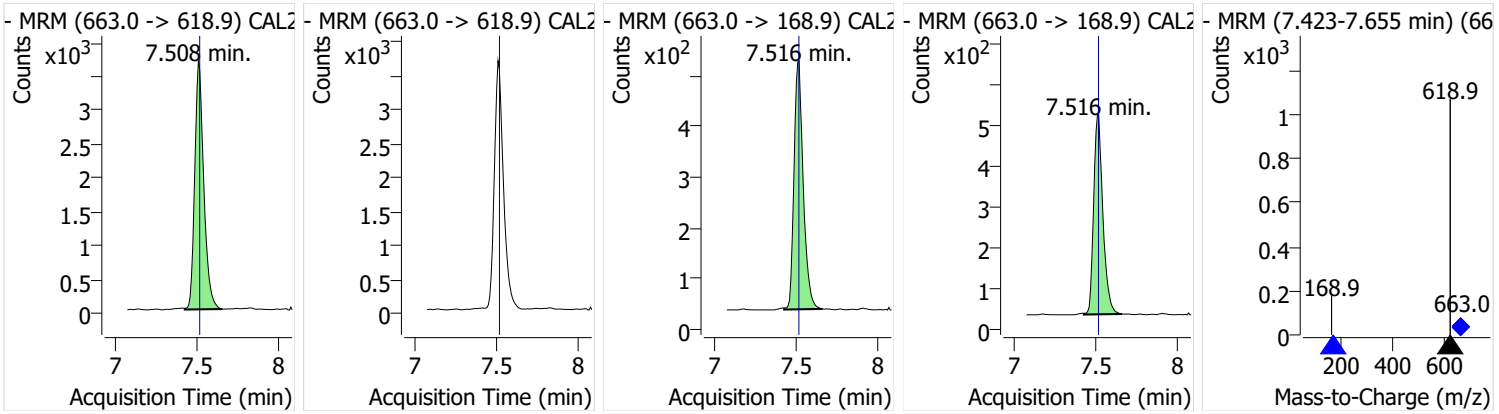
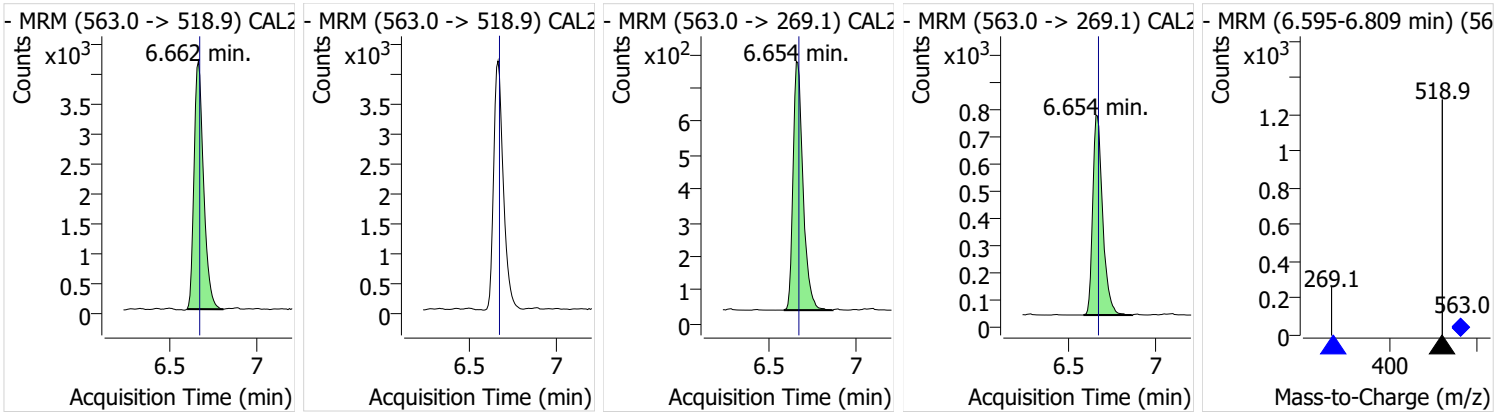


PFUnA



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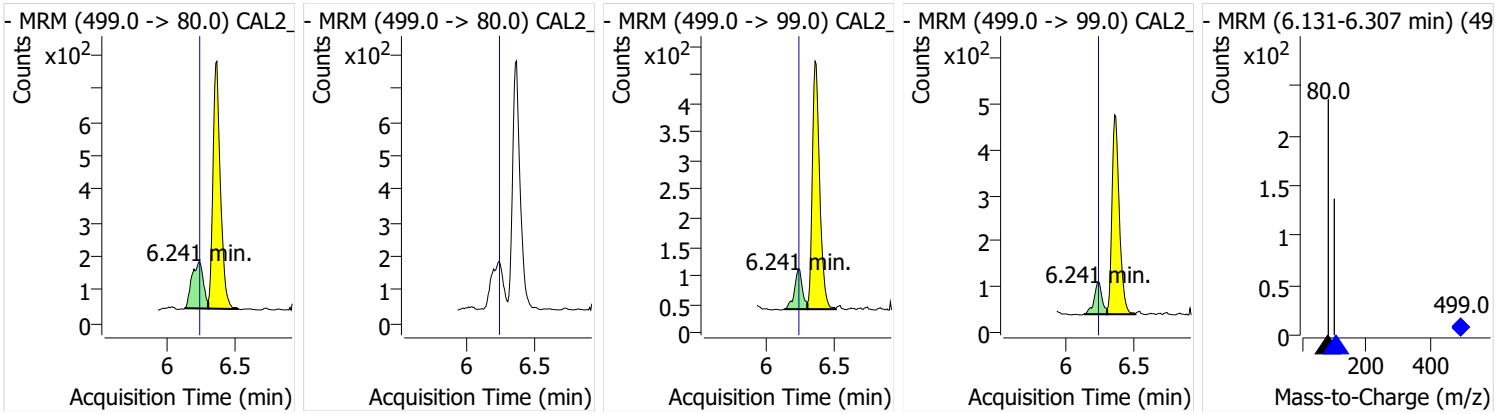
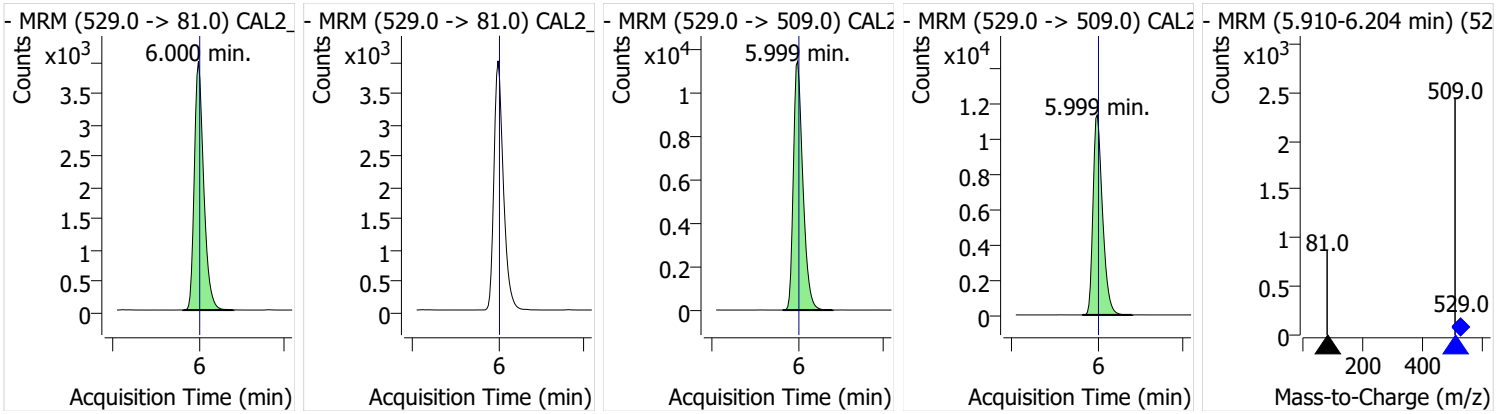
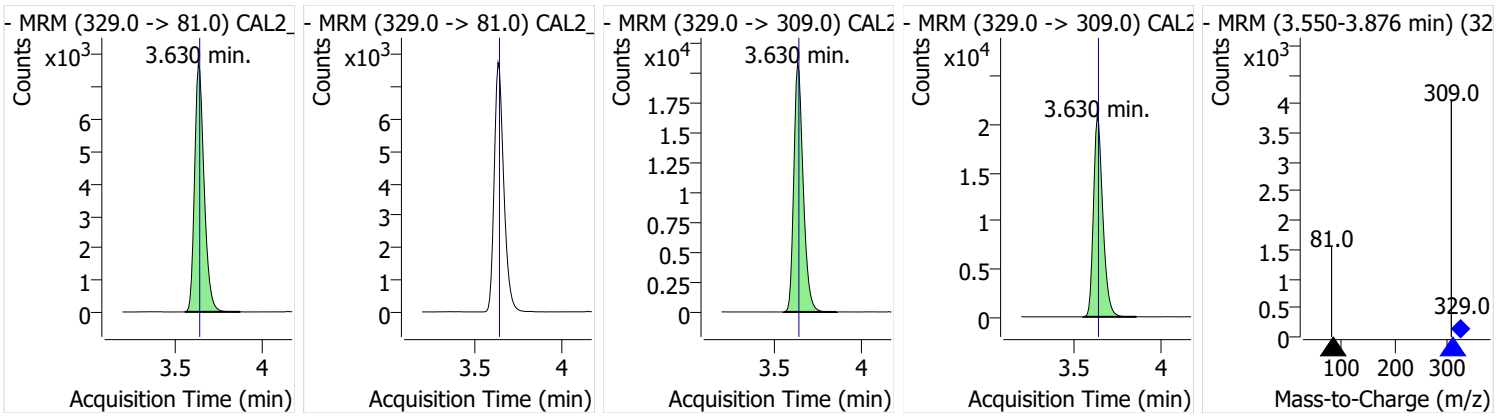


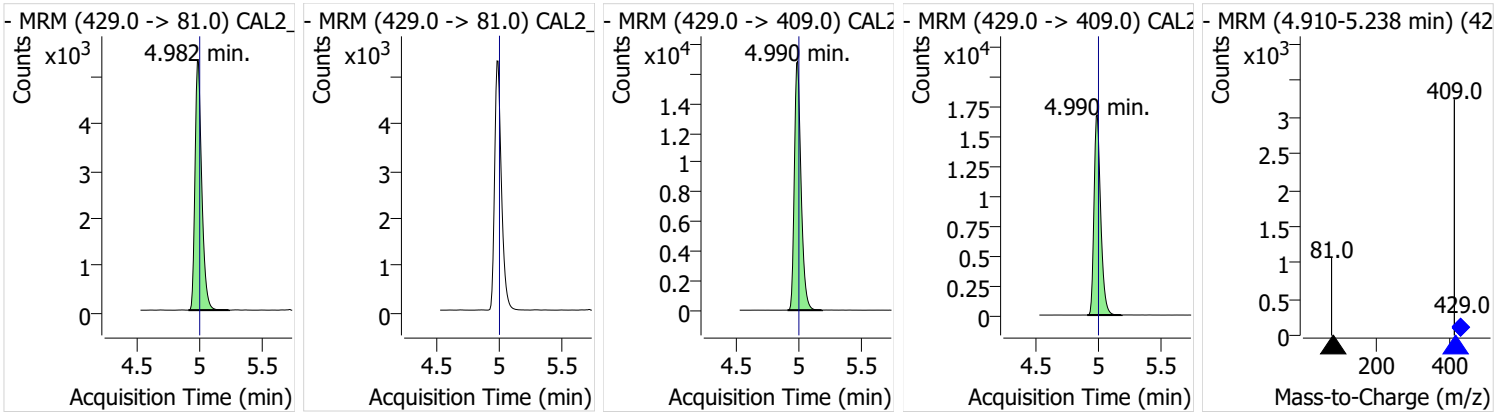
13C2-8:2FTS



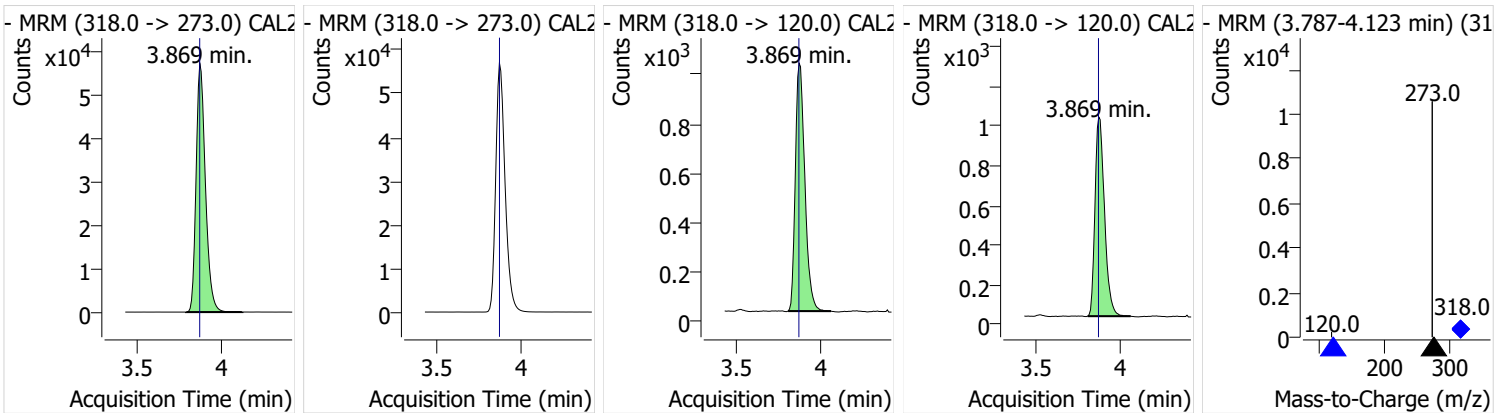
13C2-4:2FTS



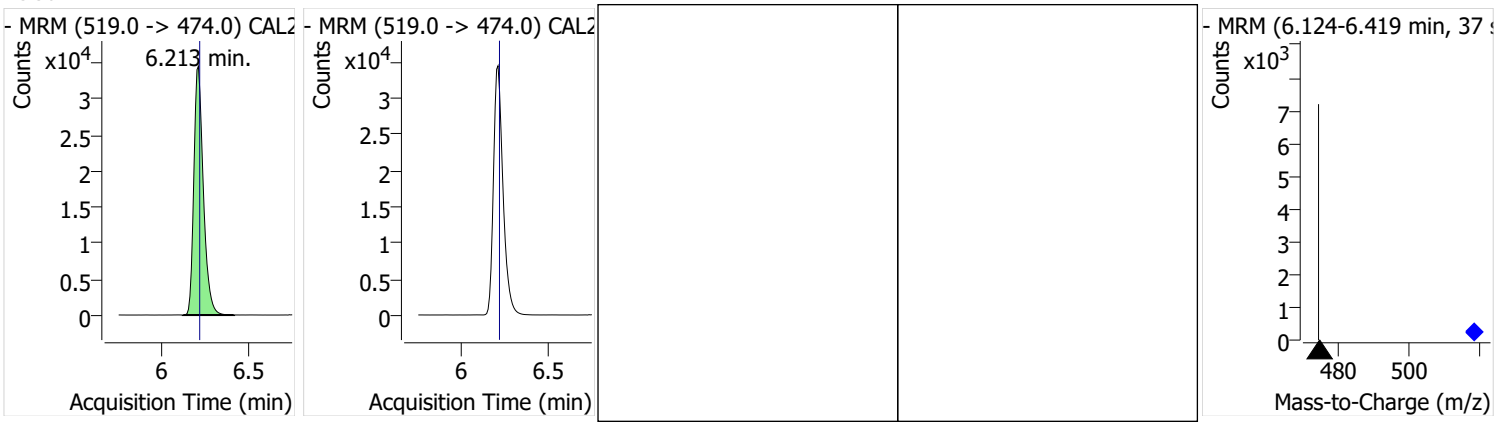
13C2-6:2FTS



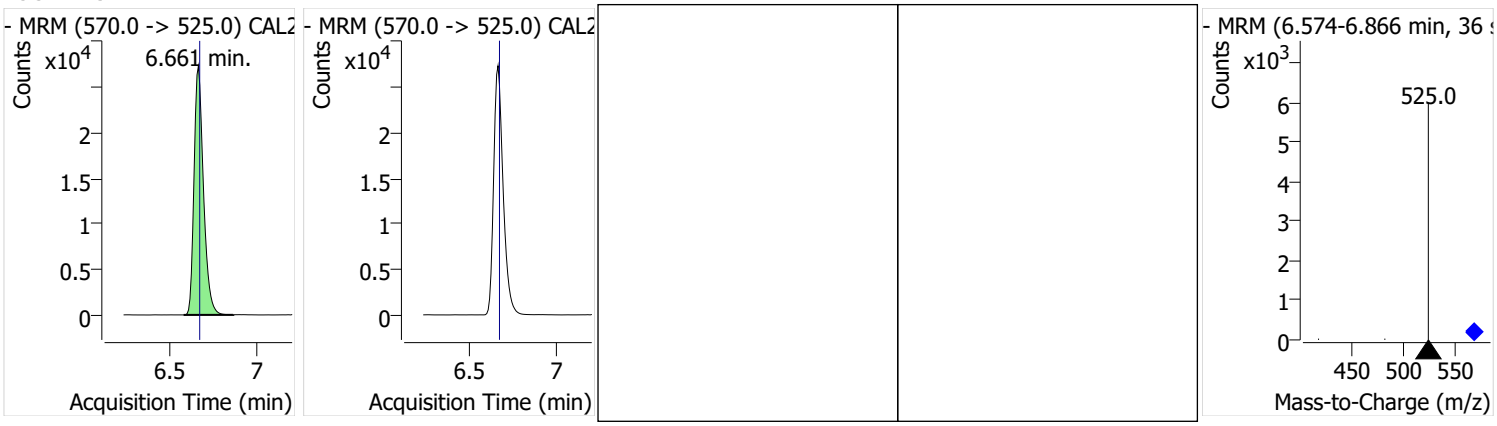
13C5-PFHxA



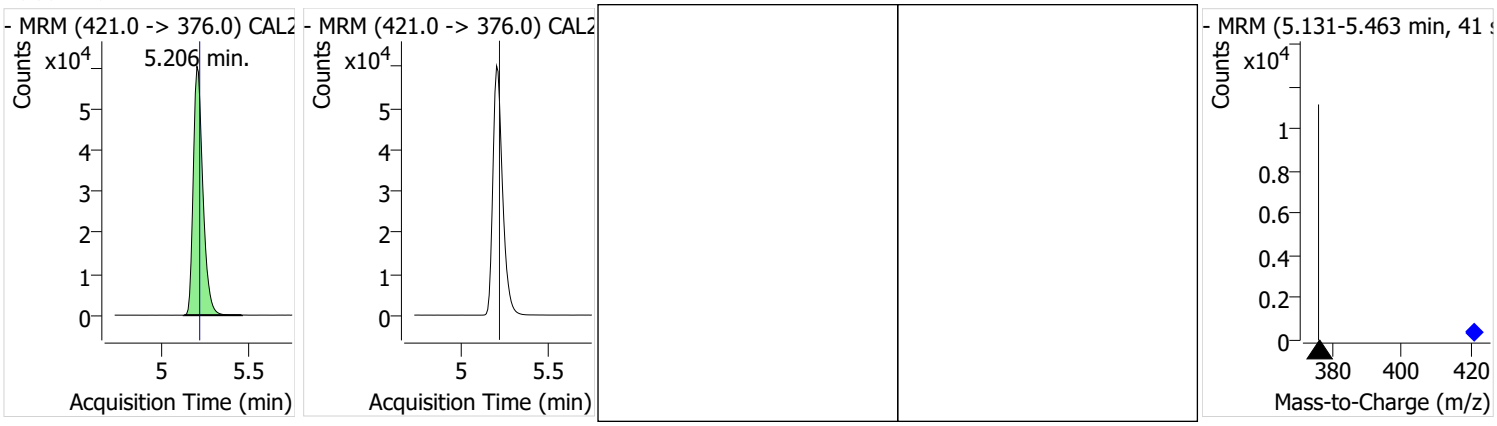
13C6-PFDA



13C7-PFUnA



13C8-PFOA



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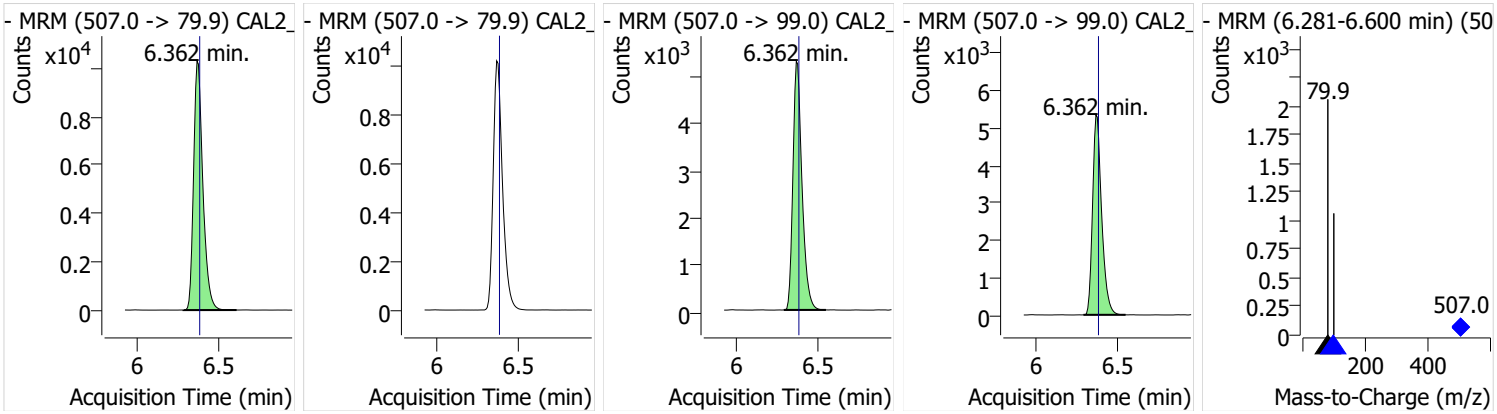

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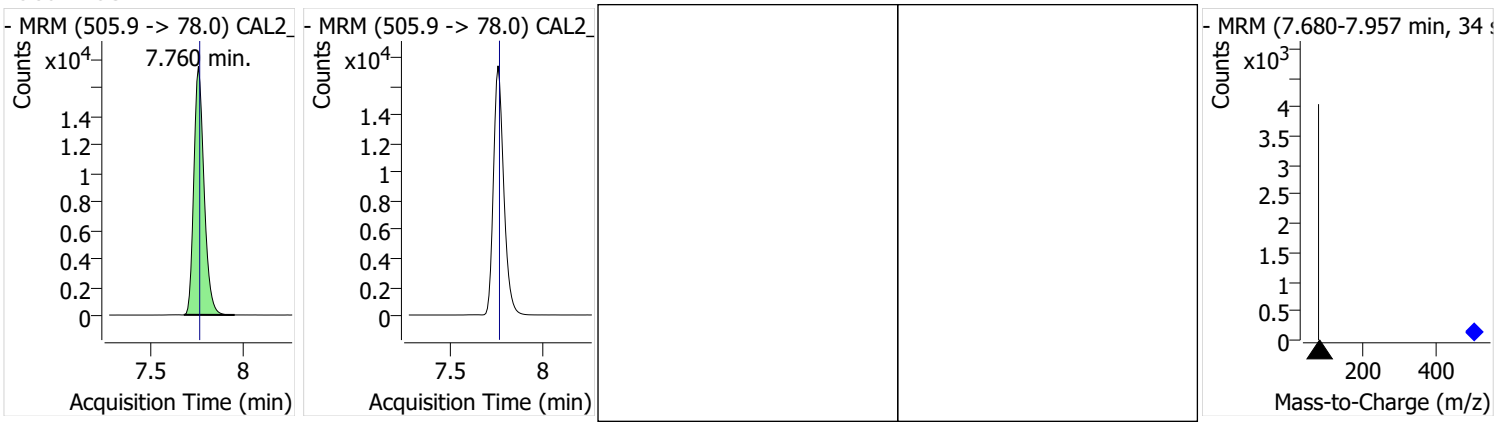
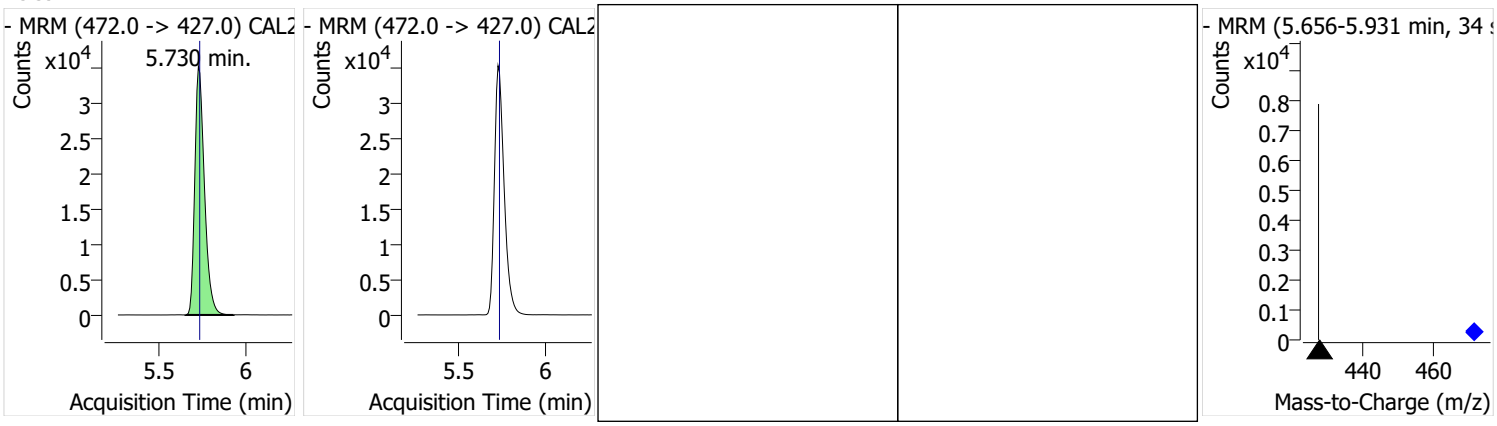
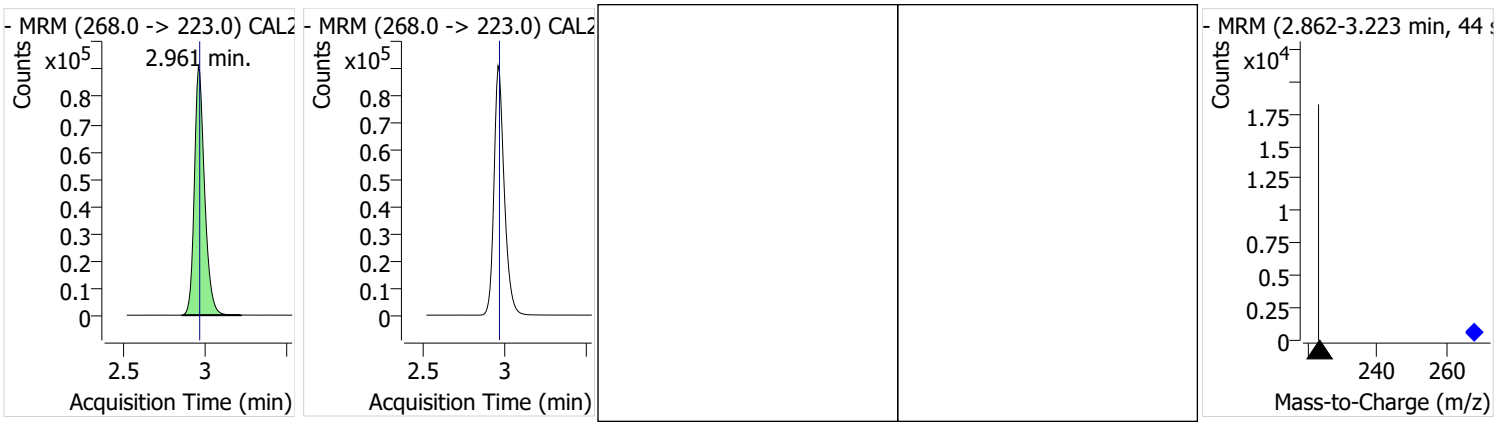


13C9-PFNA



13C5-PFPeA



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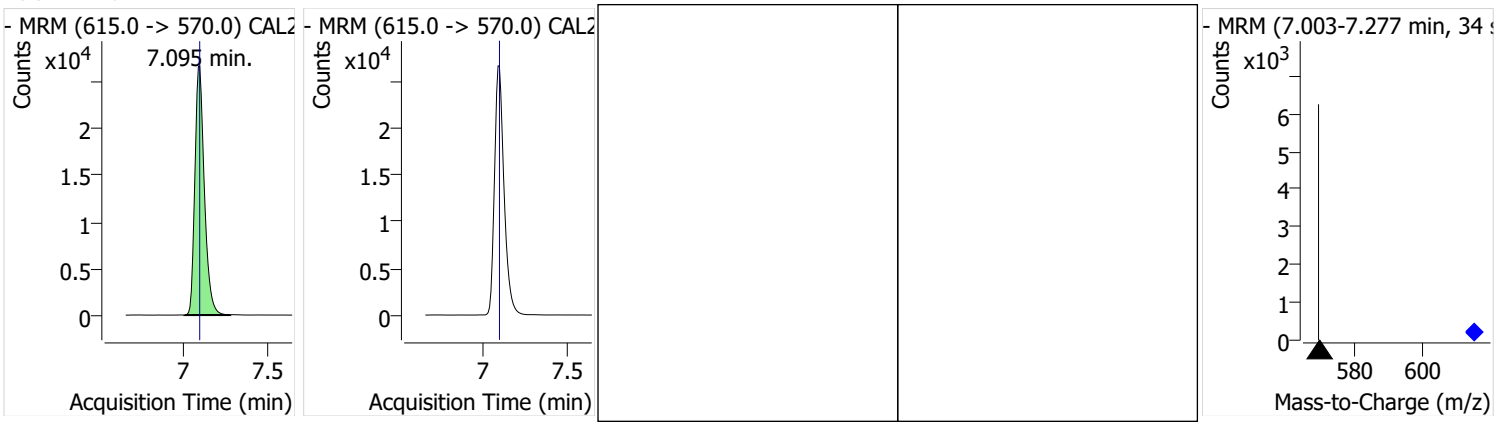
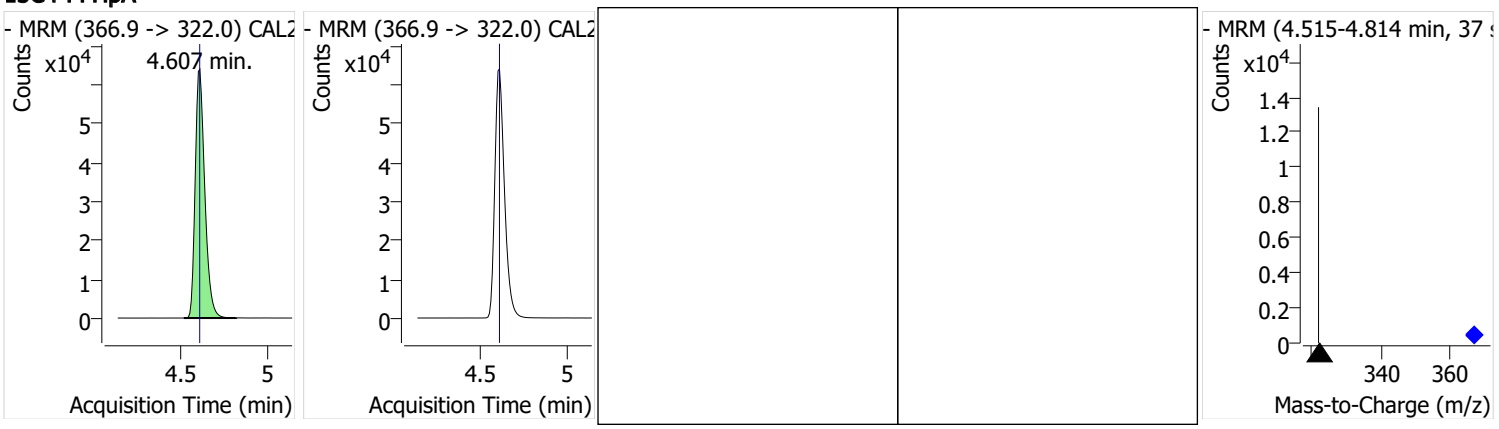
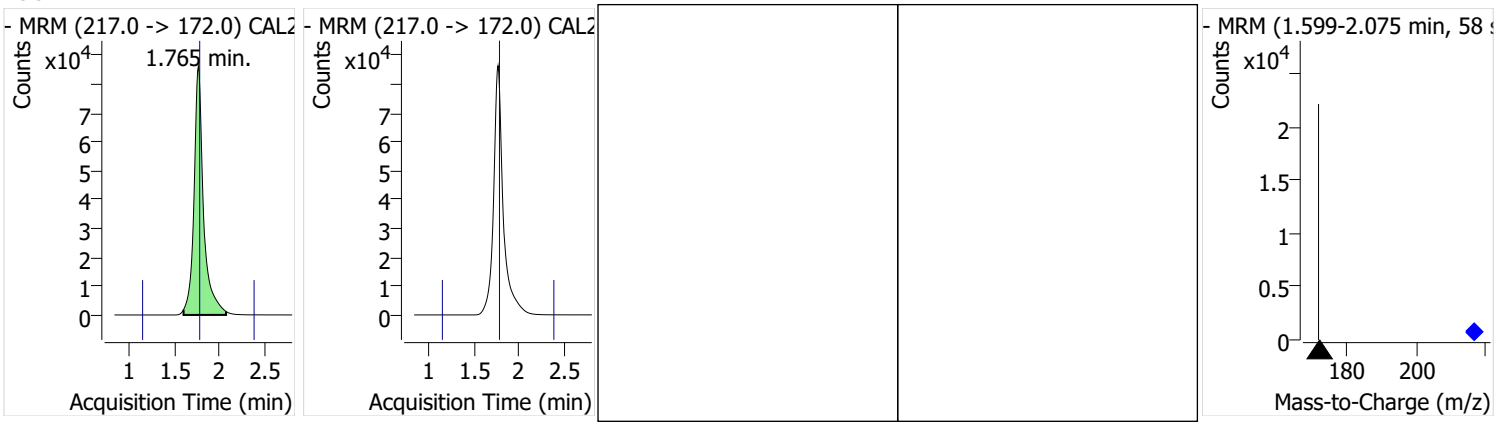


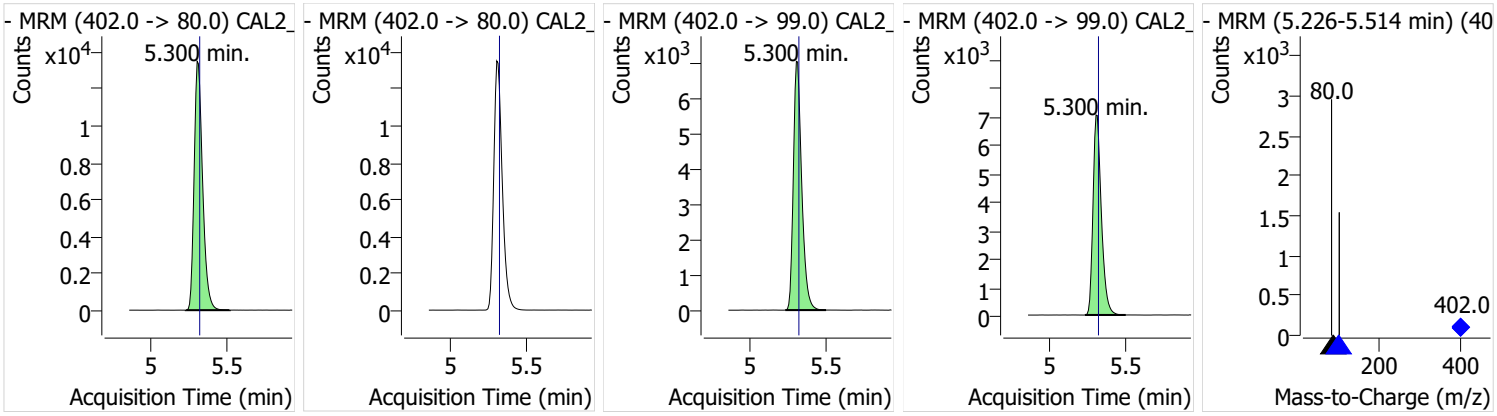
13C4-PFHpA



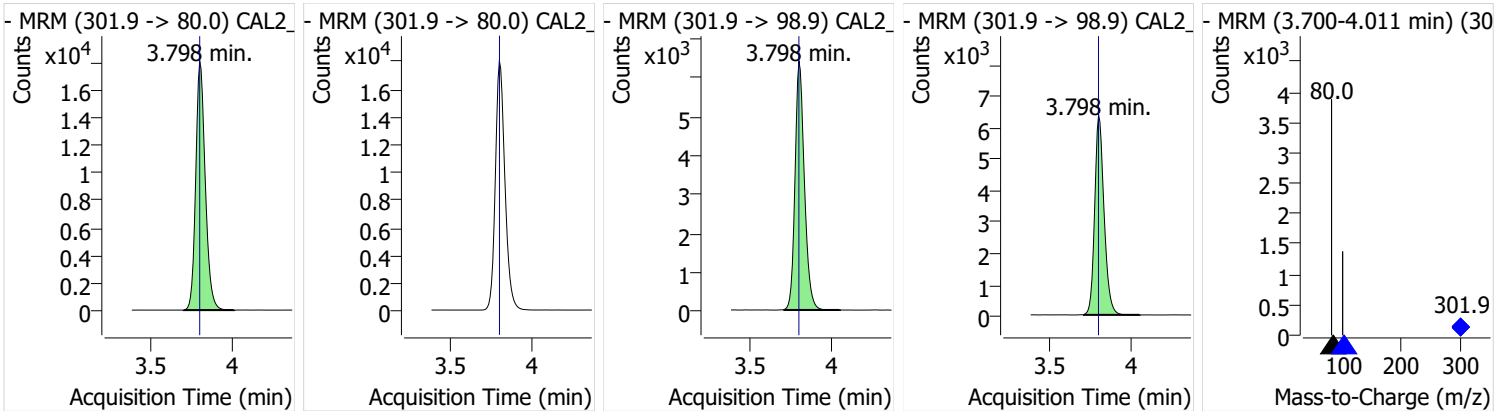
13C4-PFBA



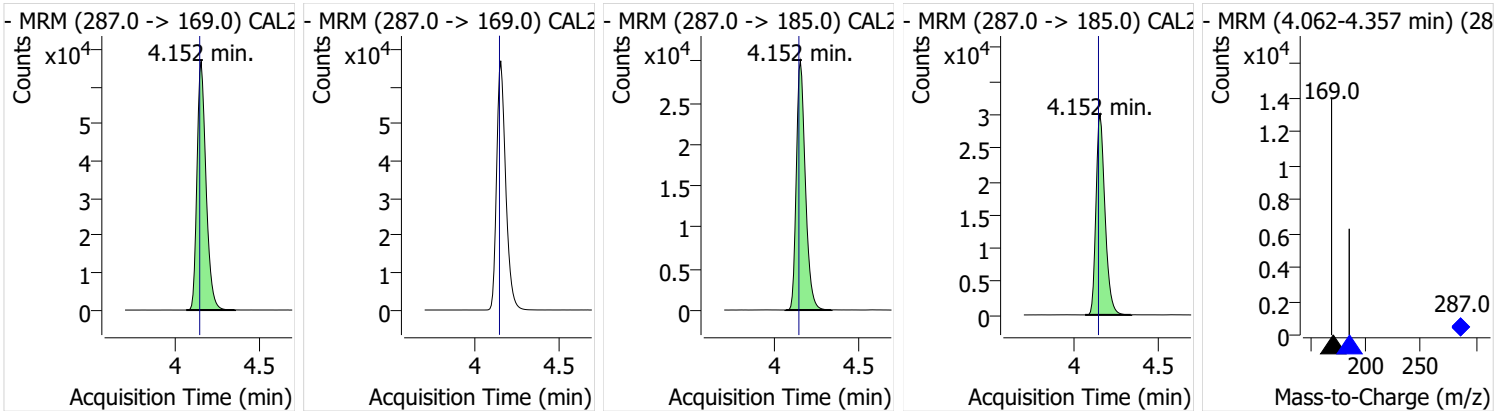
13C3-PFHxS



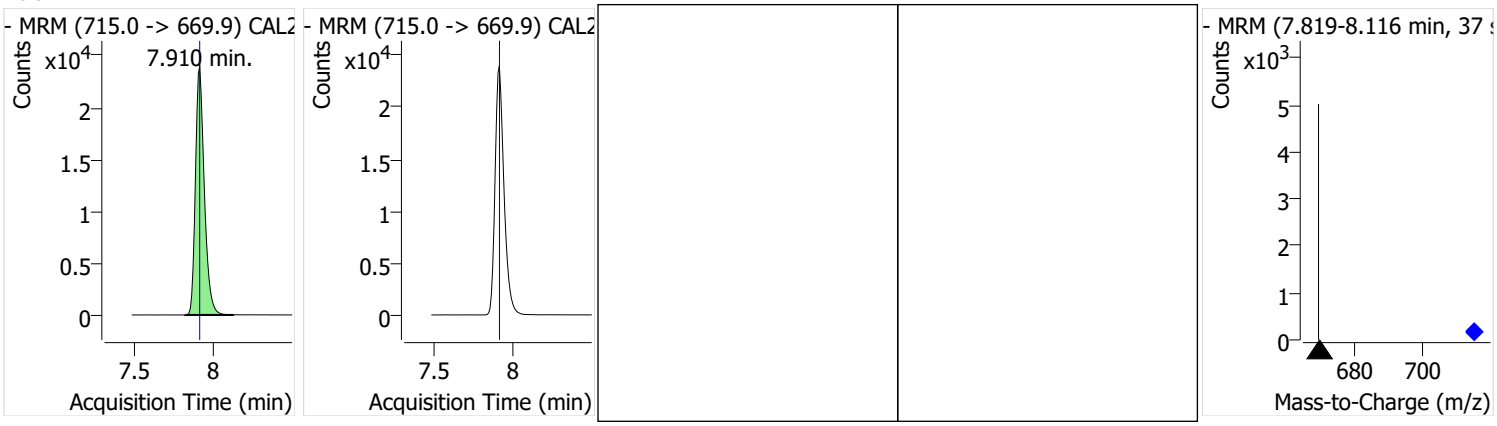
13C3-PFBS



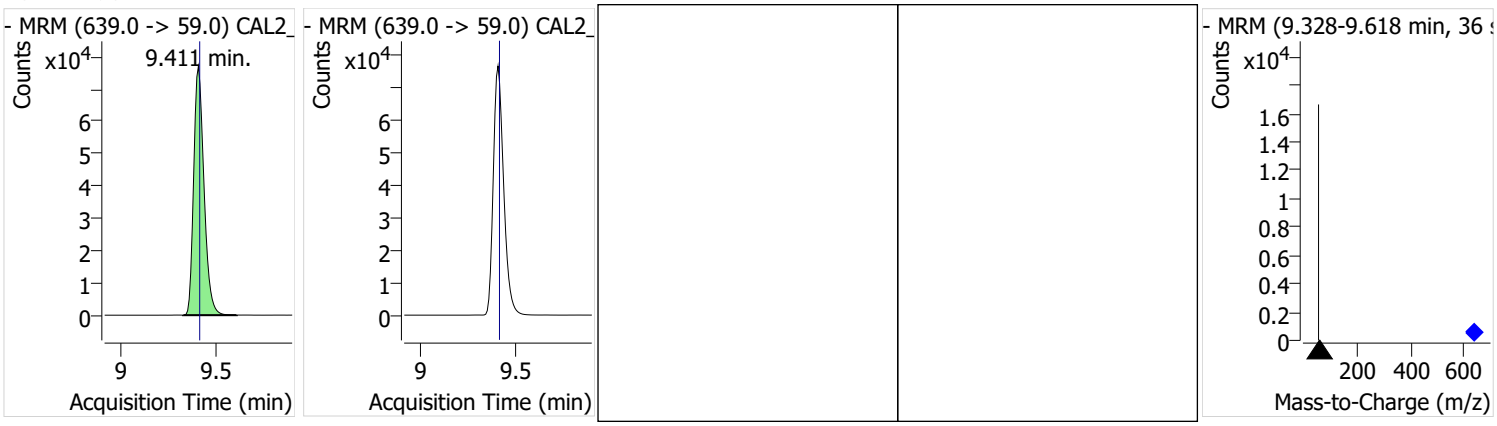
13C3-HFPODA



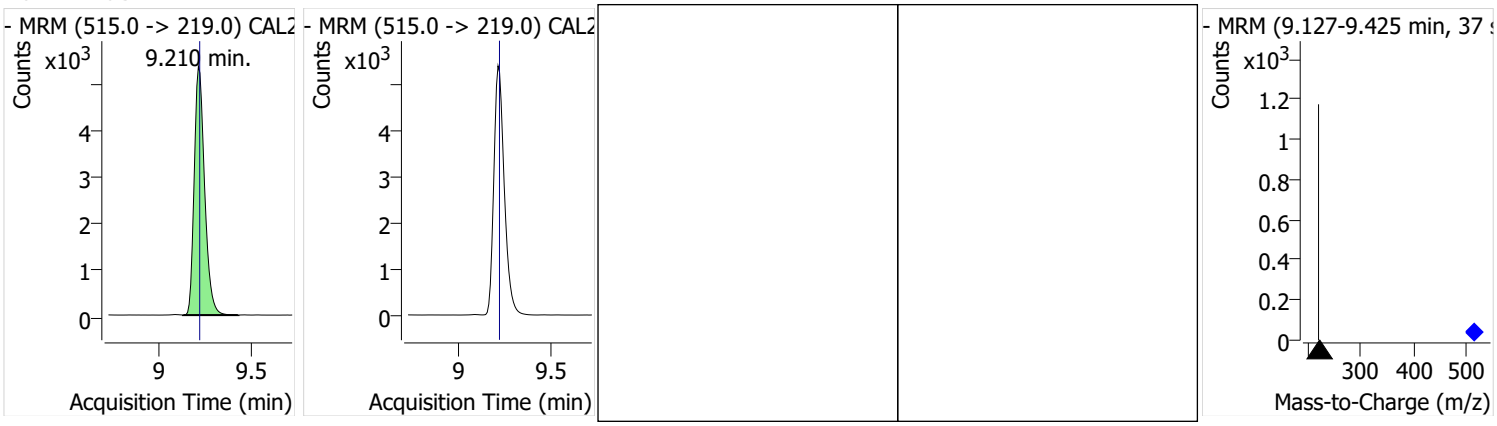
13C2-PFTeDA



D9-NEtFOSE



D3-NMeFOSA



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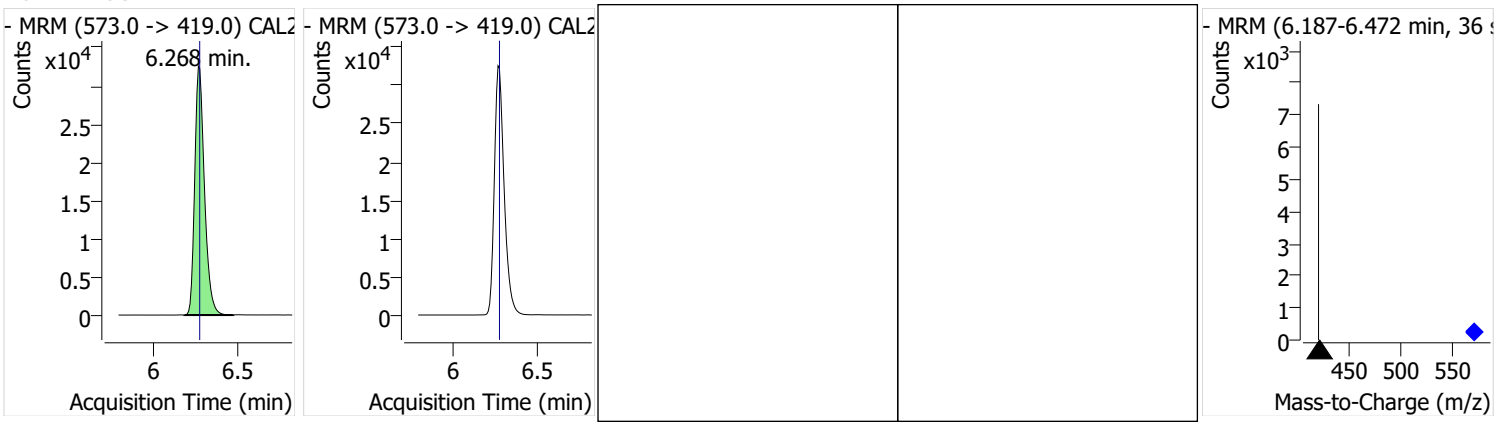
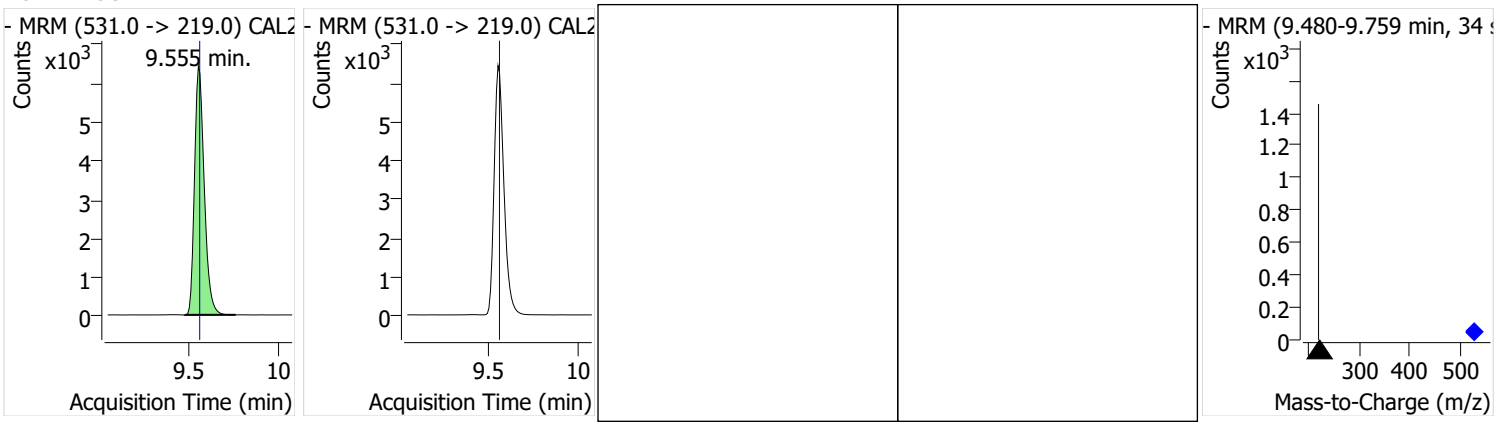


D5-NEtFOSA



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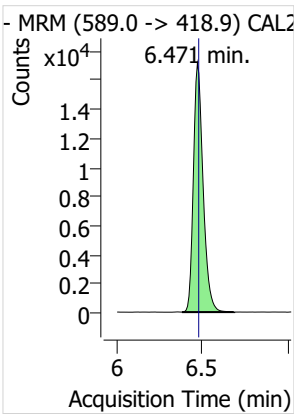
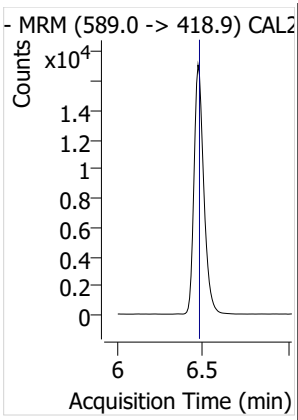
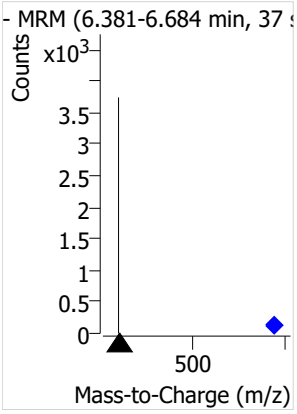
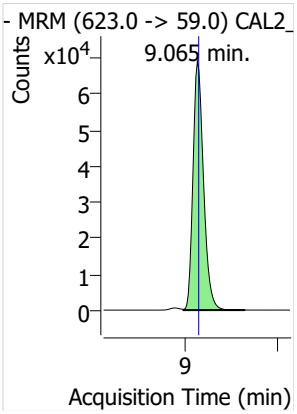
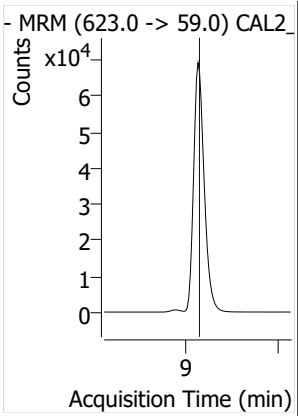


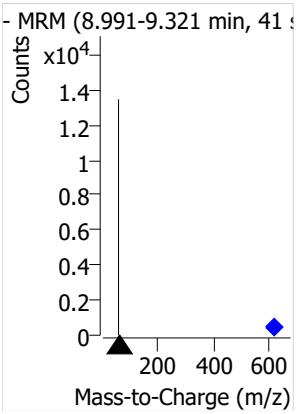




D7-NMeFOSE







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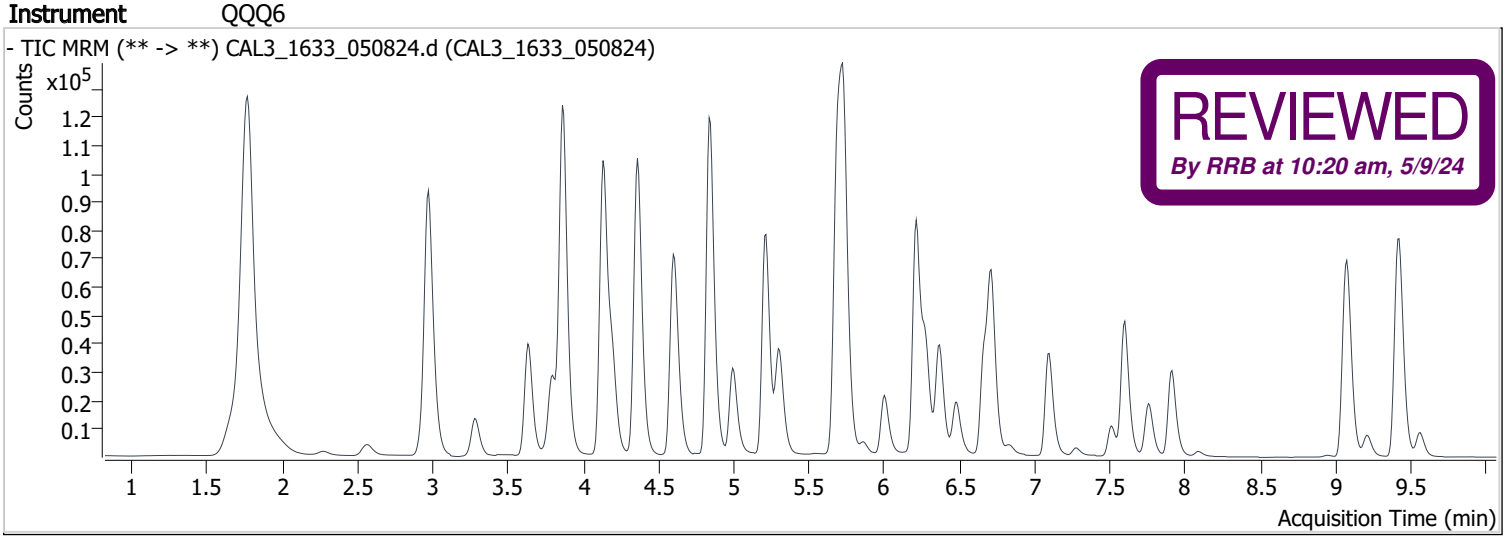
Acq. Time	5/8/2024 6:48 PM	**Data File**	CAL3_1633_050824.d
Sample Type	Cal	**Sample Name**	CAL3_1633_050824
Dilution	1	**Acq. Method**	1633_ACQUISITION_01.m
Sample Comment	E#24E0156	**Processing method**	1633_042924.m
Instrument	QQQ6		



Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
11Cl-PF3OUdS	7.600	146965	14018.12		13C3-HFPODA - ISTD	4.136	217006	2.2949	ng/ml			
633.0 -> 453.0			4862.29	21.1								
3:3FTCA	2.566	13032	2977.49		13C5-PFPeA - ISTD	2.970	334310	5.4843	ng/ml			
241.0 -> 117.0			481.64	50.1								
4:2FTS	3.631	36261	9833.04		13C2-4:2FTS - ISTD	3.630	28031	2.2161	ng/ml			
327.0 -> 80.9			3683.13	37.5								
5:3FTCA	4.359	214495	20325.98		13C5-PFHxA - ISTD	3.861	185780	28.9752	ng/ml			
341.0 -> 217.0			24889.25	89.1								
6:2FTS	4.991	26363	9475.19		13C2-6:2FTS - ISTD	4.991	17703	2.1984	ng/ml			
427.0 -> 80.9			3562.79	31.8								
7:3FTCA	5.691	242454	37724.04		13C5-PFHxA - ISTD	3.861	185780	27.8108	ng/ml			
441.0 -> 317.0			14169.21	88.8								
8:2FTS	6.000	16935	9783.92		13C2-8:2FTS - ISTD	6.000	14951	2.2188	ng/ml			
527.0 -> 81.0			1546.18	42.4								
9Cl-PF3ONS	6.712	160765	8807.53		13C3-HFPODA - ISTD	4.136	217006	2.2448	ng/ml			
533.0 -> 353.0			2028.82	29.4								
ADONA	4.838	333653	25594.89		13C3-HFPODA - ISTD	4.136	217006	2.0693	ng/ml			
377.0 -> 85.1			11693.11	35.3								
HFPO-DA	4.137	47108	10345.32		13C3-HFPODA - ISTD	4.136	217006	2.3589	ng/ml			

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
285.0 -> 184.9			2080.07	53.6								
NEtFOSA	9.565	5755	5535.72		D5-NEtFOSA - ISTD	9.555	19432	0.5701	ng/ml			
526.0 -> 219.0			4162.23	94.8								
NEtFOSAA	6.488	8210	867.26		D5-NEtFOSAA - ISTD	6.471	57306	0.5918	ng/ml	✔	3	AMS 05/09/24
584.0 -> 526.0			555.42	64.7								
NEtFOSE	9.436	67434	13510.06		D9-NEtFOSE - ISTD	9.411	254981	5.9195	ng/ml			
NFDHA	3.775	7801	2990.85		13C5-PFHxA - ISTD	3.861	185780	1.2422	ng/ml			
295.0 -> 85.0			646.57	34.2								
NMeFOSA	9.220	5179	6146.74		D3-NMeFOSA - ISTD	9.210	17955	0.5955	ng/ml			
512.0 -> 219.0			1762.32	88.9								
NMeFOSAA	6.277	5876	844.94		D3-NMeFOSAA - ISTD	6.276	115831	0.5982	ng/ml	✔	3	AMS 05/09/24
570.0 -> 418.9			977.29	63.1								
NMeFOSE	9.090	58855	44973.23		D7-NMeFOSE - ISTD	9.065	229396	5.9421	ng/ml			
PFBA	1.762	119935	1272.89		13C4-PFBA - ISTD	1.765	545772	2.3807	ng/ml			
PFBS	3.799	15693	1801.93		13C3-PFBS - ISTD	3.798	61723	0.5093	ng/ml			
298.9 -> 98.8			1214.10	39.0								
PFDA	6.214	53185	1604.78		13C6-PFDA - ISTD	6.213	110050	0.5864	ng/ml			
513.0 -> 219.0			3146.26	15.5								
PFDoA	7.087	43535	1641.12		13C2-PFDoA - ISTD	7.095	90457	0.5806	ng/ml			
613.0 -> 319.0			1833.87	13.1								
PFDoS	8.086	3846	4173.53		13C8-PFOS - ISTD	6.370	33162	0.5820	ng/ml			
698.9 -> 99.0			1477.95	60.9								
PFDS	7.279	6178	1619.65		13C8-PFOS - ISTD	6.370	33162	0.5718	ng/ml			
599.0 -> 98.8			1446.10	59.1								
PFEESA	4.197	103130	10968.64		13C5-PFHxA - ISTD	3.861	185780	1.1030	ng/ml			
315.0 -> 83.0			4347.36	6.9								
PFHpA	4.599	48976	1234.94		13C4-PFHpA - ISTD	4.599	207767	0.5655	ng/ml			
362.9 -> 169.0			1519.14	17.6								
PFHpS	5.865	9422	1863.88		13C8-PFOS - ISTD	6.370	33162	0.5390	ng/ml			
449.0 -> 98.8			1964.31	53.1								
PFHxA	3.863	41933	1388.81		13C5-PFHxA - ISTD	3.861	185780	0.5552	ng/ml			
313.0 -> 118.9			289.73	4.0								

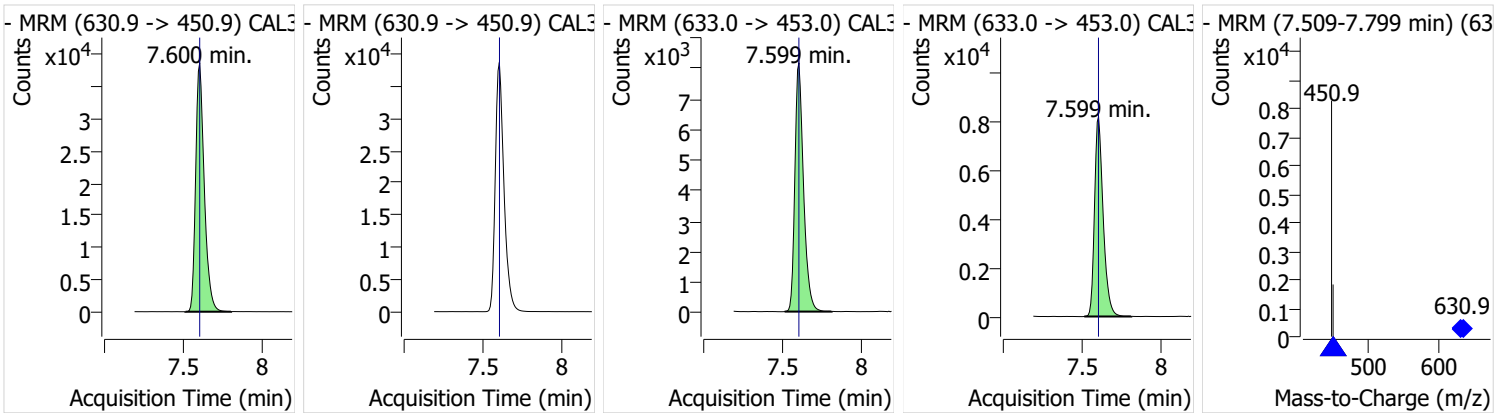
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFHxS	5.309	10451	2486.56		13C3-PFHxS - ISTD	5.308	43890	0.5275	ng/ml	✔	3	AMS 05/09/24
398.9 -> 99.0			514.72	44.7								
PFMBA	3.280	54950	31004.15		13C5-PFPeA - ISTD	2.970	334310	1.1938	ng/ml			
PFMPA	2.275	8516	5844.46		13C5-PFPeA - ISTD	2.970	334310	1.1638	ng/ml			
PFNA	5.730	50896	2008.02		13C9-PFNA - ISTD	5.730	114387	0.5534	ng/ml			
463.0 -> 219.0			3802.18	21.7								
PFNS	6.834	7429	1824.50		13C8-PFOS - ISTD	6.370	33162	0.5503	ng/ml			
549.0 -> 98.8			1681.61	57.9								
PFOA	5.207	55359	765.01		13C8-PFOA - ISTD	5.215	193164	0.5708	ng/ml			
413.0 -> 169.0			1422.06	23.7								
PFOS	6.363	9190	850.76		13C8-PFOS - ISTD	6.370	33162	0.5332	ng/ml	✔	3	AMS 05/09/24
499.0 -> 99.0			877.86	49.7								
PFOSA	7.761	14046	69360.61		13C8-PFOSA - ISTD	7.760	57167	0.5565	ng/ml			
497.9 -> 478.0			2553.16	2.7								
PFPeA	2.971	75866	2498.33		13C5-PFPeA - ISTD	2.970	334310	1.1236	ng/ml			
263.0 -> 69.0			128.15	0.3								
PFPeS	4.633	12858	1677.62		13C3-PFHxS - ISTD	5.308	43890	0.5654	ng/ml			
349.0 -> 98.9			718.74	45.9								
PFTeDA	7.911	35733	2065.45		13C2-PFTeDA - ISTD	7.910	76971	0.5770	ng/ml			
713.0 -> 168.9			2818.53	8.1								
PFTrDA	7.508	36015	2024.36		13C2-PFDoA - ISTD	7.095	90457	0.5638	ng/ml			
663.0 -> 168.9			2895.59	13.3								
PFUnA	6.662	41413	2302.97		13C7-PFUnA - ISTD	6.661	93503	0.5511	ng/ml			
563.0 -> 269.1			1707.11	16.8								
TDCA	6.241	1253	194.44					-	ng/ml			
499.0 -> 99.0			142.44	*46.8								
13C2-8:2FTS	6.000	14951	2055.05		18O2-PFHxS	5.308	53328	4.2652	ng/ml			
529.0 -> 509.0			373947.59	260.9								
13C2-4:2FTS	3.630	28031	7109.51		18O2-PFHxS	5.308	53328	4.3923	ng/ml			
329.0 -> 309.0			14762.11	257.1								
13C2-6:2FTS	4.991	17703	5252.74		18O2-PFHxS	5.308	53328	4.1050	ng/ml			
429.0 -> 409.0			21884.32	340.2								
13C5-PFHxA	3.861	185780	18526.70		13C2-PFHxA	3.861	220138	2.0480	ng/ml			
318.0 -> 120.0			689.78	1.8								

Quantitative Analysis Sample Report

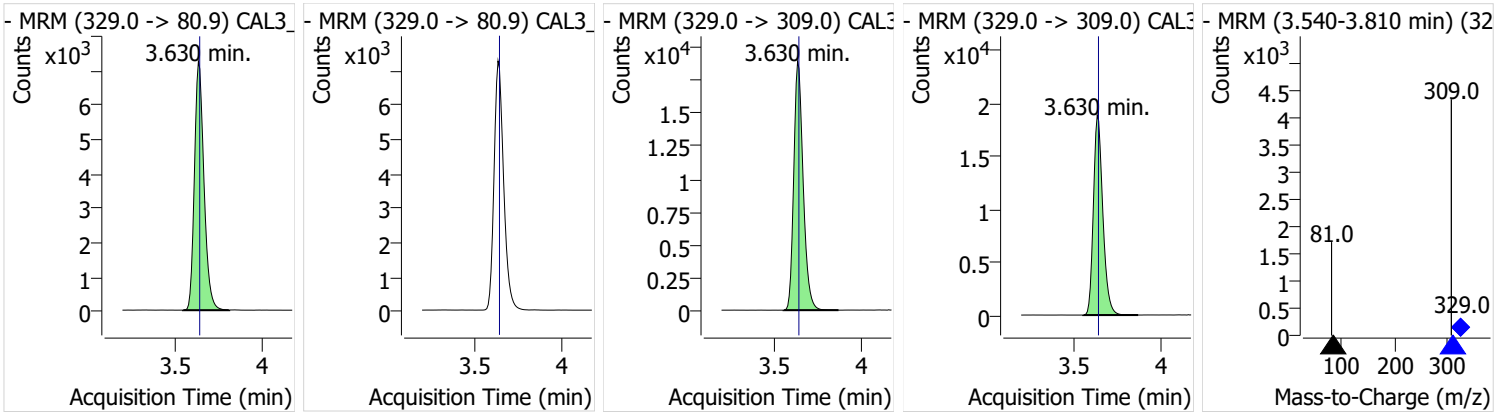
Agilent 1273

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
13C6-PFDA	6.213	110050	10945.64		13C2-PFDA	6.214	136884	1.0189	ng/ml			
13C7-PFUnA	6.661	93503	8682.88		13C2-PFDA	6.214	136884	1.0694	ng/ml			
13C8-PFOA	5.215	193164	27690.00		13C4-PFOA	5.215	33880	2.0796	ng/ml			
13C8-PFOS	6.370	33162	10439.65		13C4-PFOS	6.371	45515	2.0266	ng/ml			
507.0 -> 99.0			14741.38	53.6								
13C8-PFOSA	7.760	57167	369965.77		13C4-PFOS	6.371	45515	1.9865	ng/ml			
13C9-PFNA	5.730	114387	10563.24		13C5-PFNA	5.730	163206	1.0278	ng/ml			
13C5-PFPeA	2.970	334310	15008.35		13C2-PFHxA	3.861	220138	4.1121	ng/ml			
13C2-PFDoA	7.095	90457	9164.14		13C2-PFDA	6.214	136884	1.0023	ng/ml			
13C4-PFHpA	4.599	207767	25165.25		13C2-PFHxA	3.861	220138	2.0476	ng/ml			
13C4-PFBA	1.765	545772	98326.02		13C3-PFBA	1.768	304691	8.2502	ng/ml			
13C3-PFHxS	5.308	43890	33598.22		18O2-PFHxS	5.308	53328	2.0153	ng/ml			
402.0 -> 99.0			12206.36	51.0								
13C3-PFBS	3.798	61723	12588.92		18O2-PFHxS	5.308	53328	2.1415	ng/ml			
301.9 -> 98.9			3898.47	33.8								
13C3-HFPODA	4.136	217006	26665.39		13C2-PFHxA	3.861	220138	8.5523	ng/ml			
287.0 -> 185.0			12007.76	44.4								
13C2-PFTeDA	7.910	76971	11263.47		13C2-PFDA	6.214	136884	0.9905	ng/ml			
D9-NEtFOSE	9.411	254981	44621.97		13C4-PFOS	6.371	45515	21.3061	ng/ml			
D3-NMeFOSA	9.210	17955	7223.10		13C4-PFOS	6.371	45515	1.9451	ng/ml			
D3-NMeFOSAA	6.276	115831	19692.09		13C4-PFOS	6.371	45515	3.9285	ng/ml			
D5-NEtFOSA	9.555	19432	11653.10		13C4-PFOS	6.371	45515	2.0182	ng/ml			
D5-NEtFOSAA	6.471	57306	23546.06		13C4-PFOS	6.371	45515	3.8410	ng/ml			
D7-NMeFOSE	9.065	229396	138080.33		13C4-PFOS	6.371	45515	20.5107	ng/ml			

11Cl-PF3OUdS



13C2-4:2FTS - ISTD



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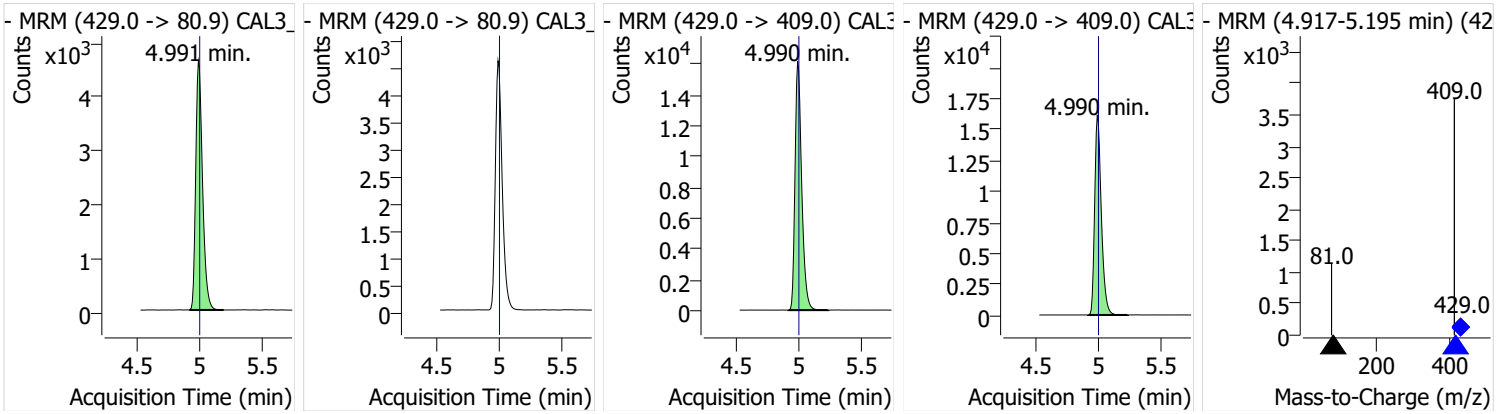
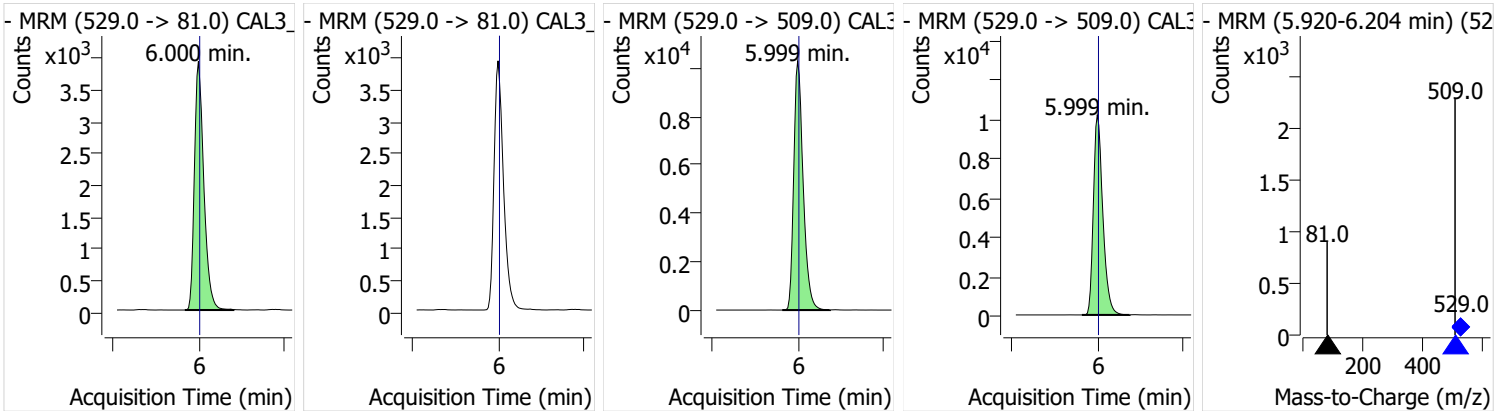
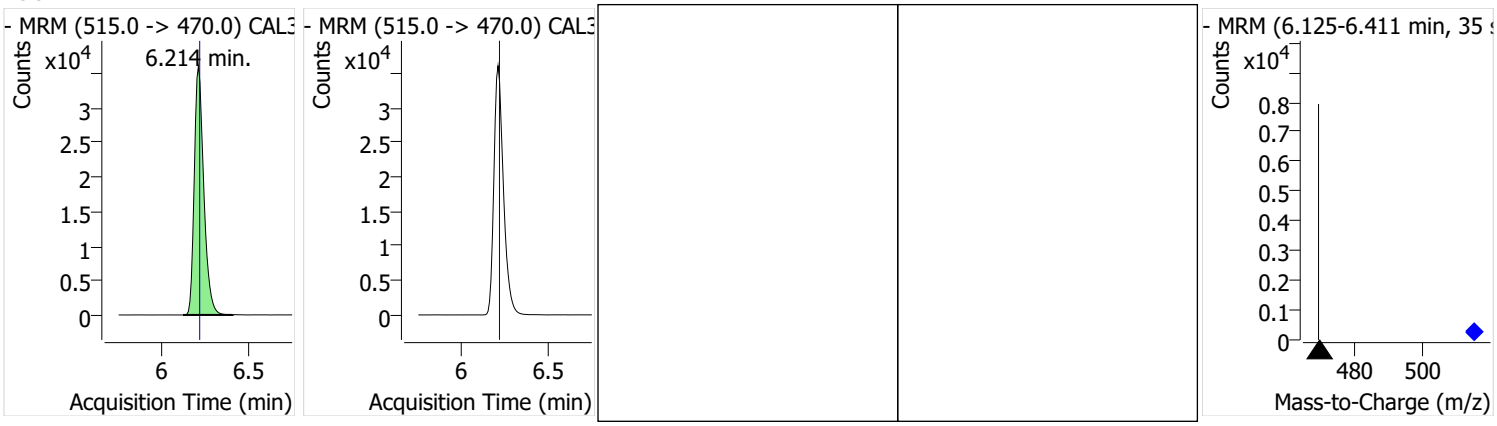


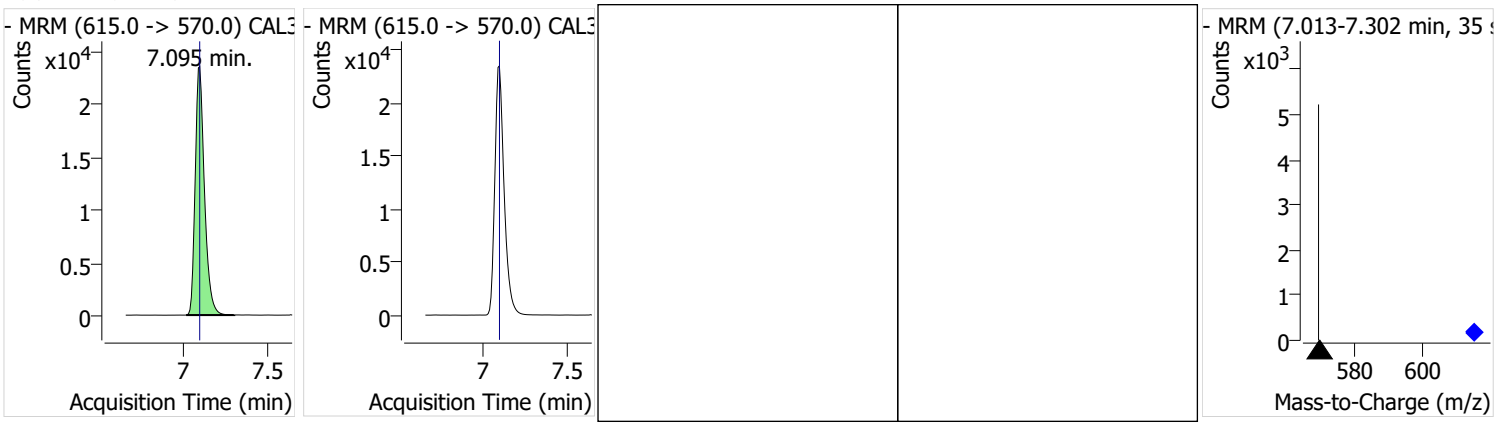
13C2-8:2FTS - ISTD



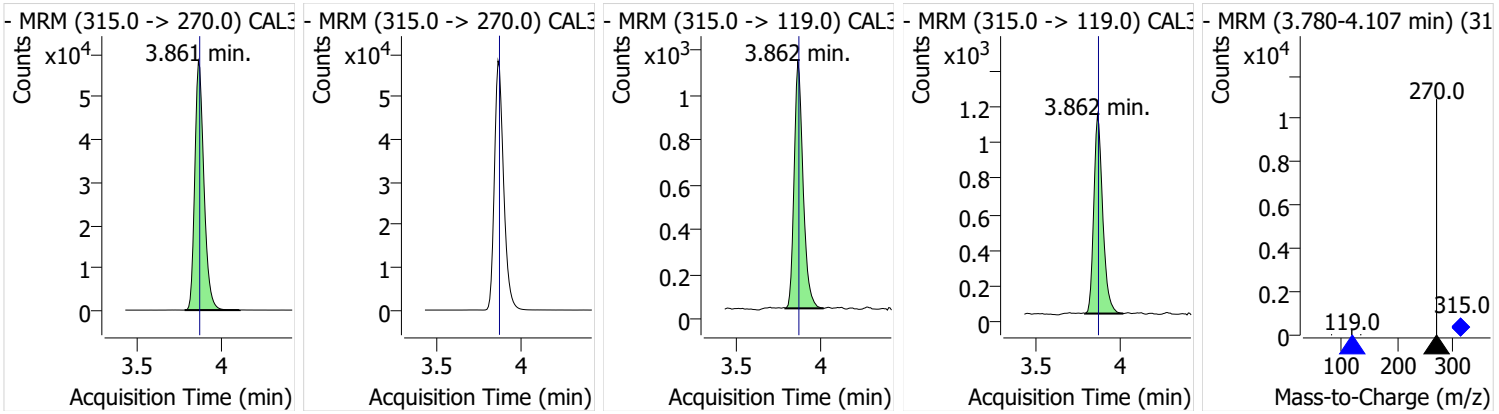
13C2-PFDA



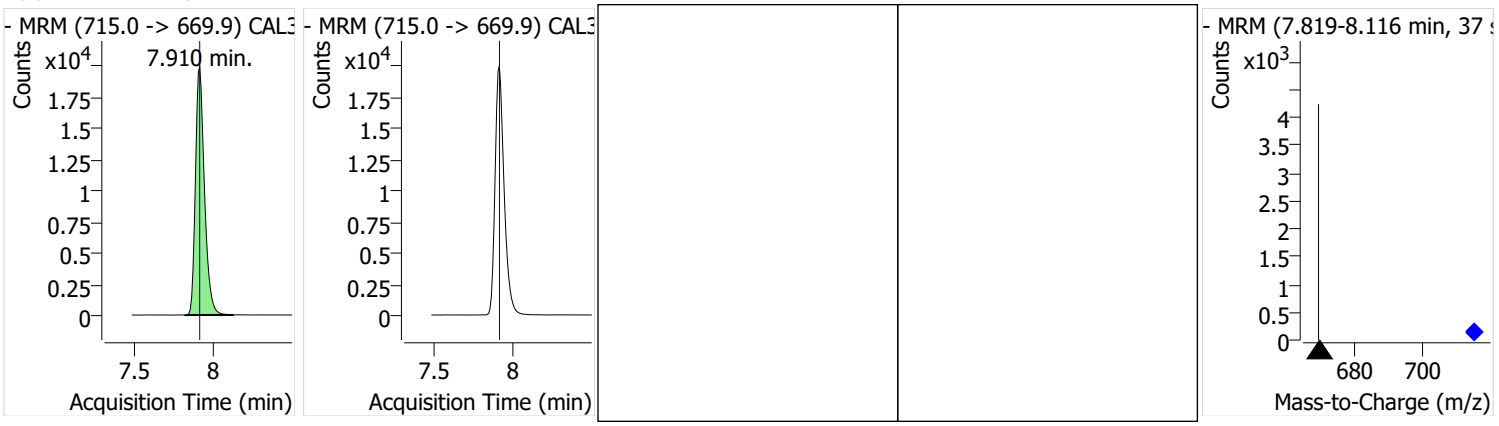
13C2-PFDoA - ISTD



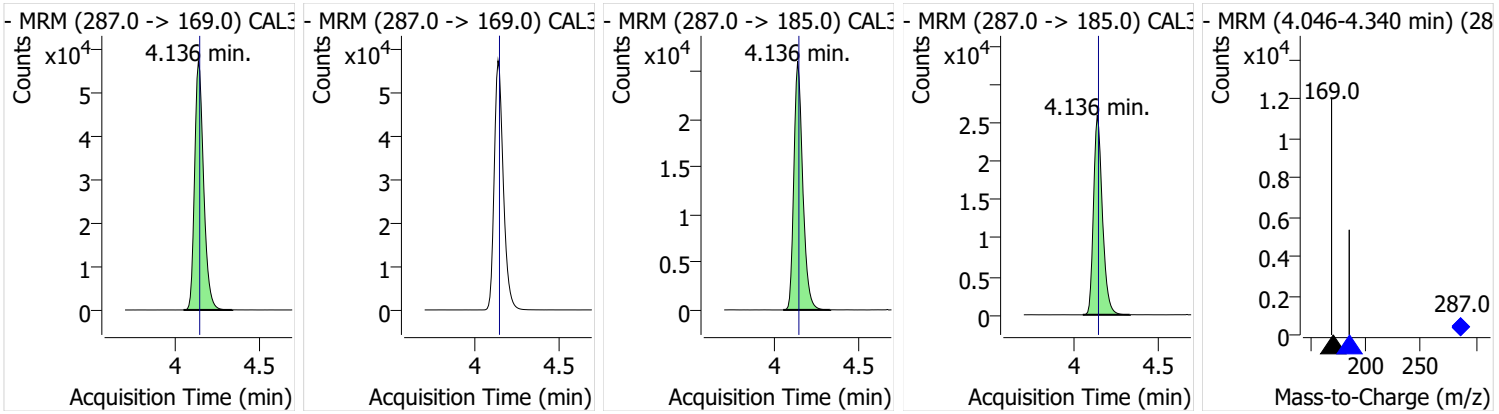
13C2-PFHxA



13C2-PFTeDA - ISTD



13C3-HFPODA - ISTD



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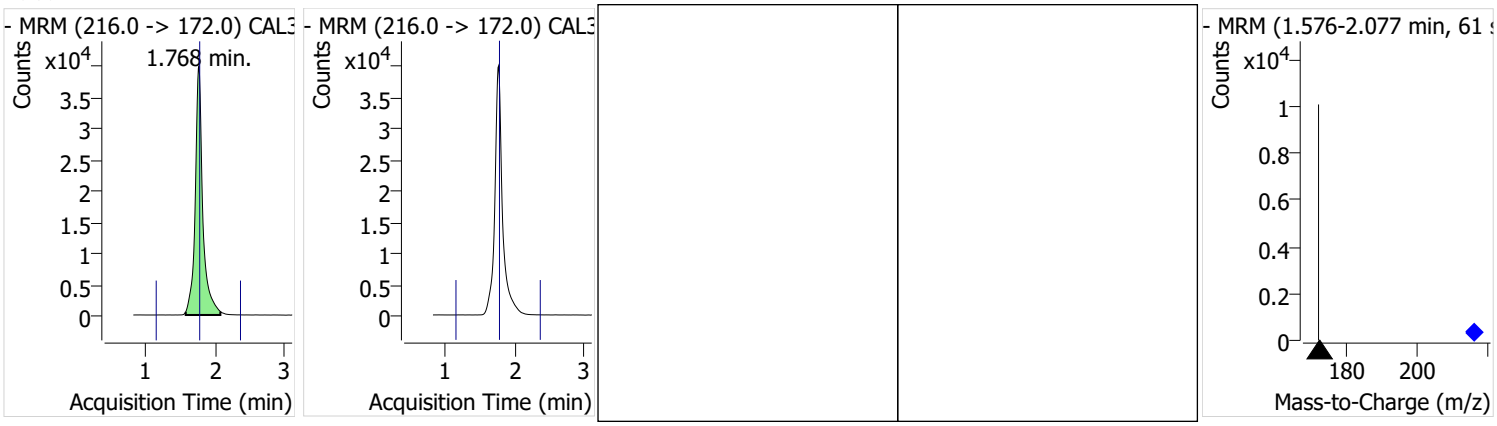
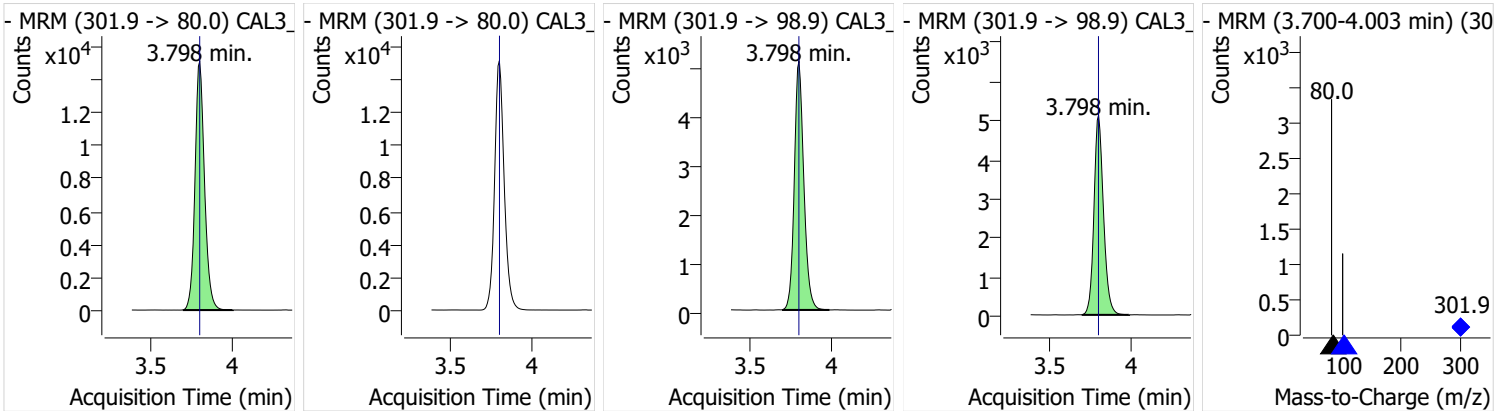
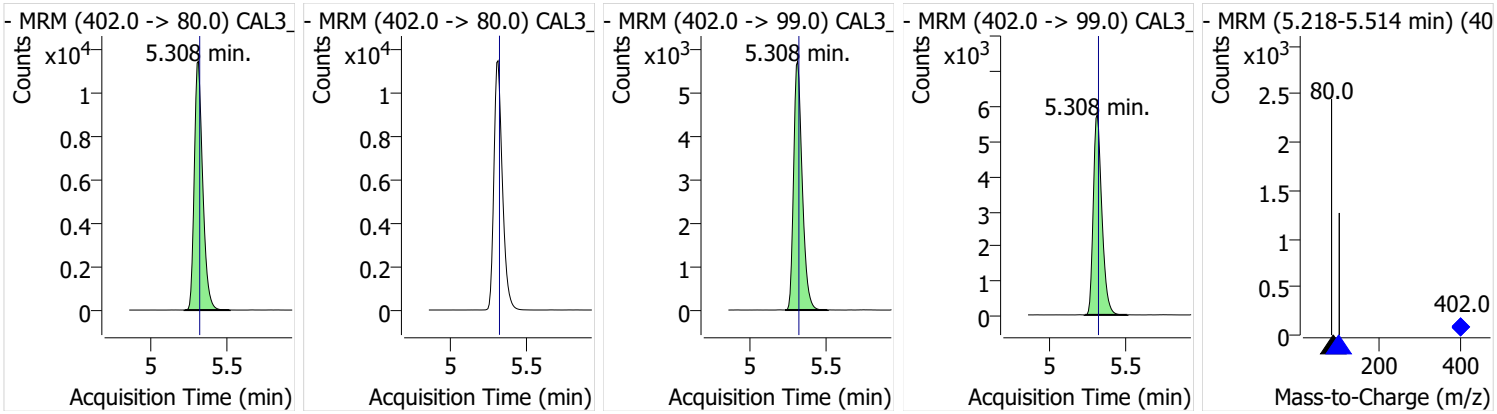


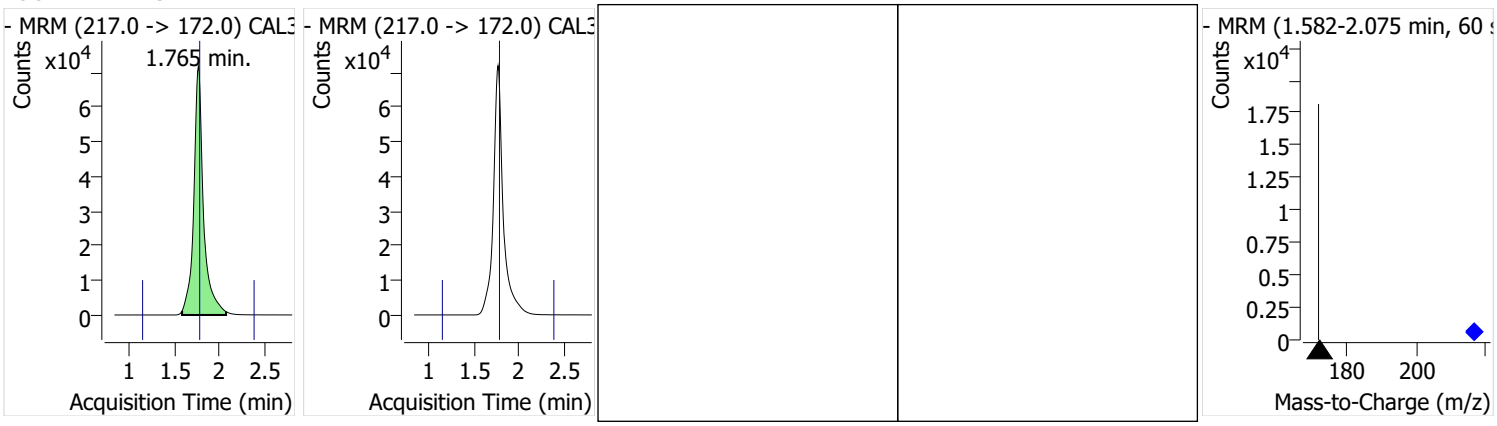
13C3-PFBS - ISTD



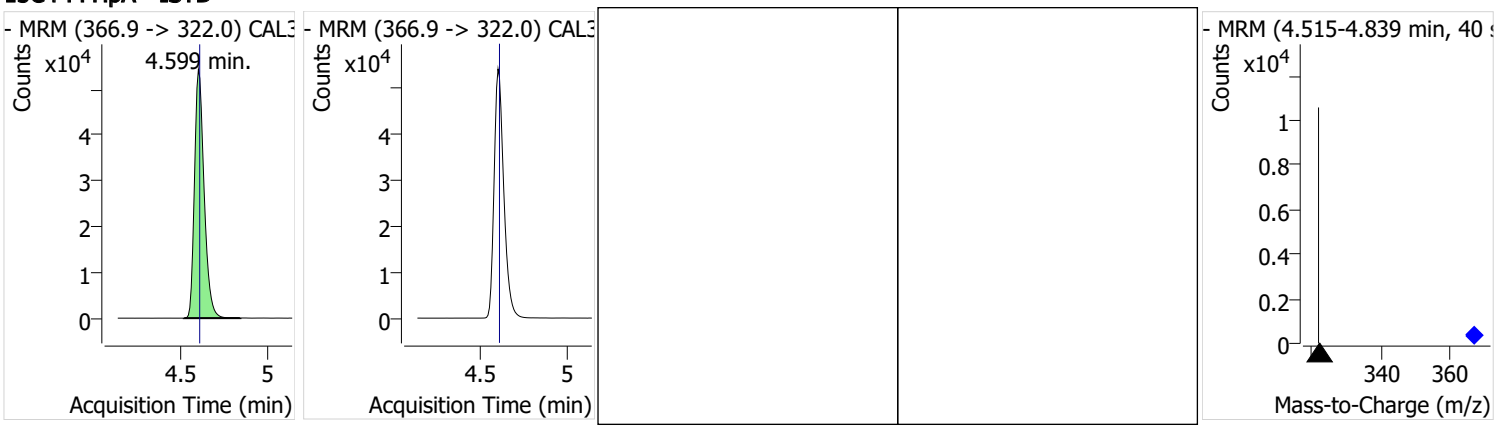
13C3-PFHxS - ISTD



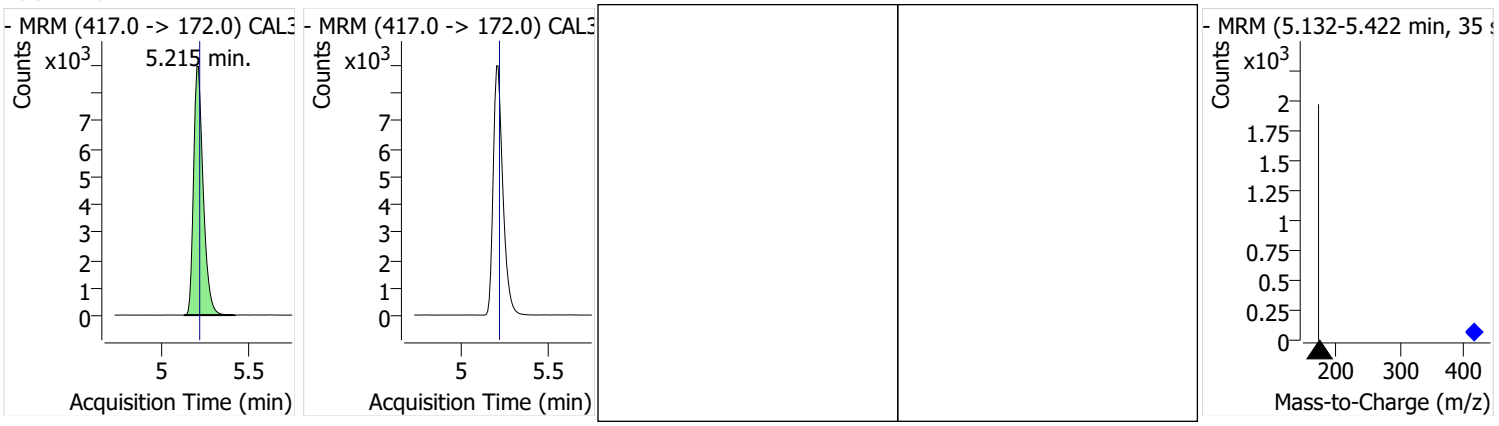
13C4-PFBA - ISTD



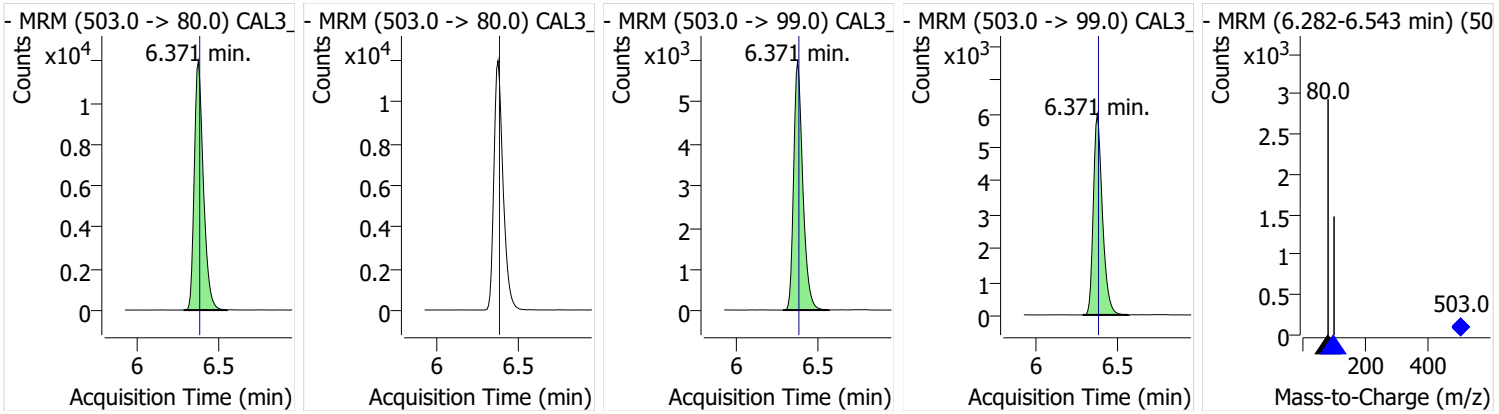
13C4-PFHpA - ISTD



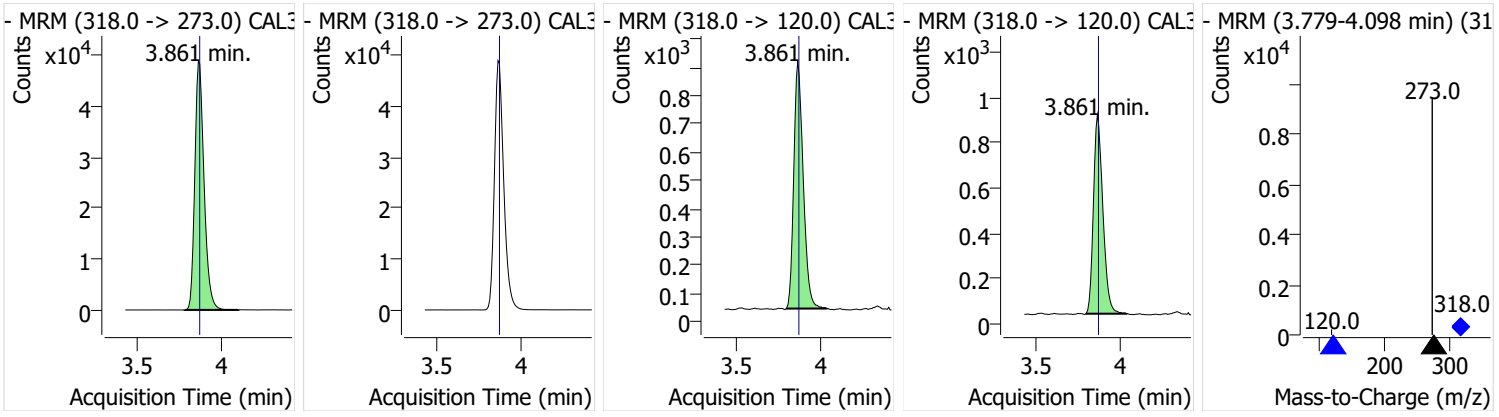
13C4-PFOA



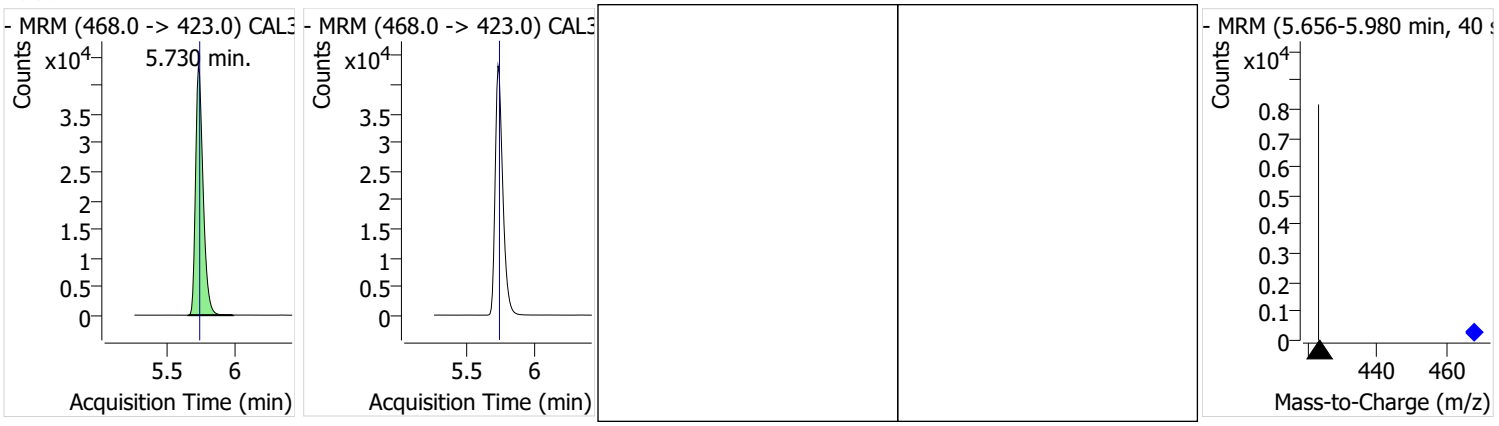
13C4-PFOS



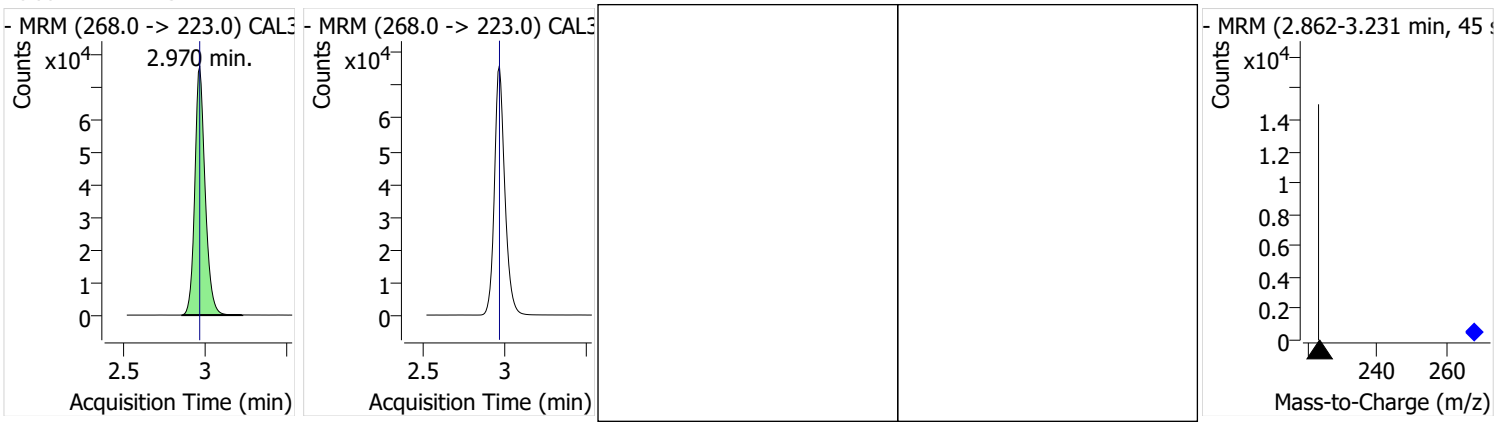
13C5-PFHxA - ISTD



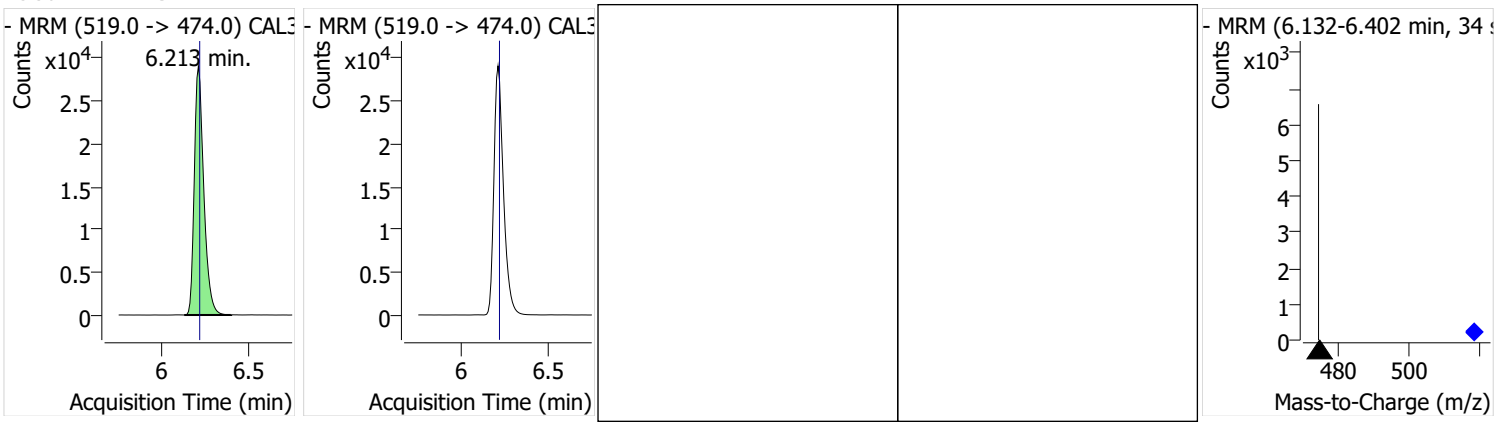
13C5-PFNA



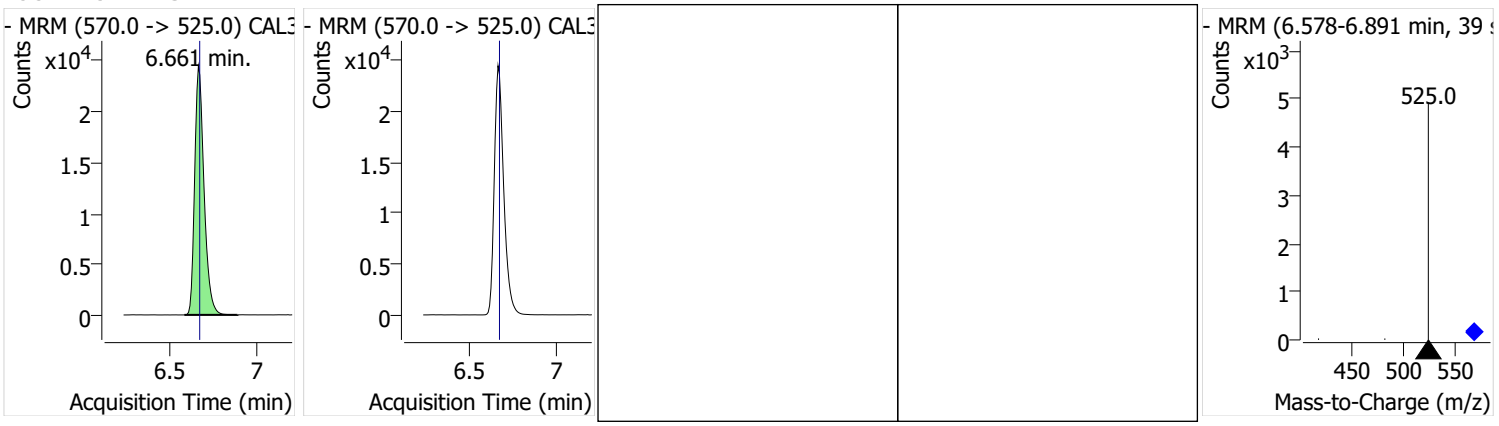
13C5-PFPeA - ISTD



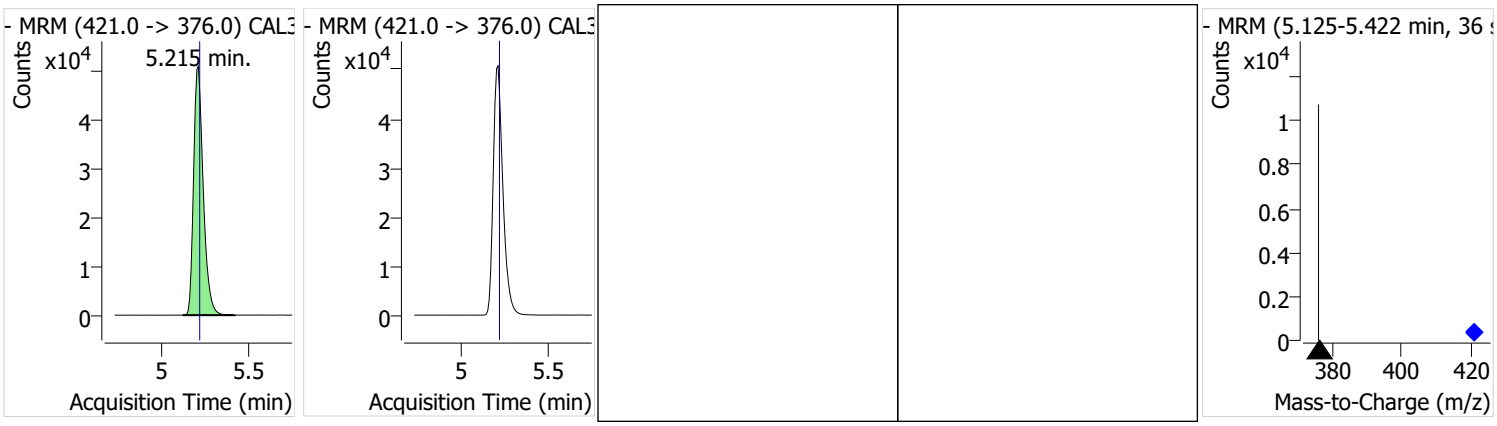
13C6-PFDA - ISTD



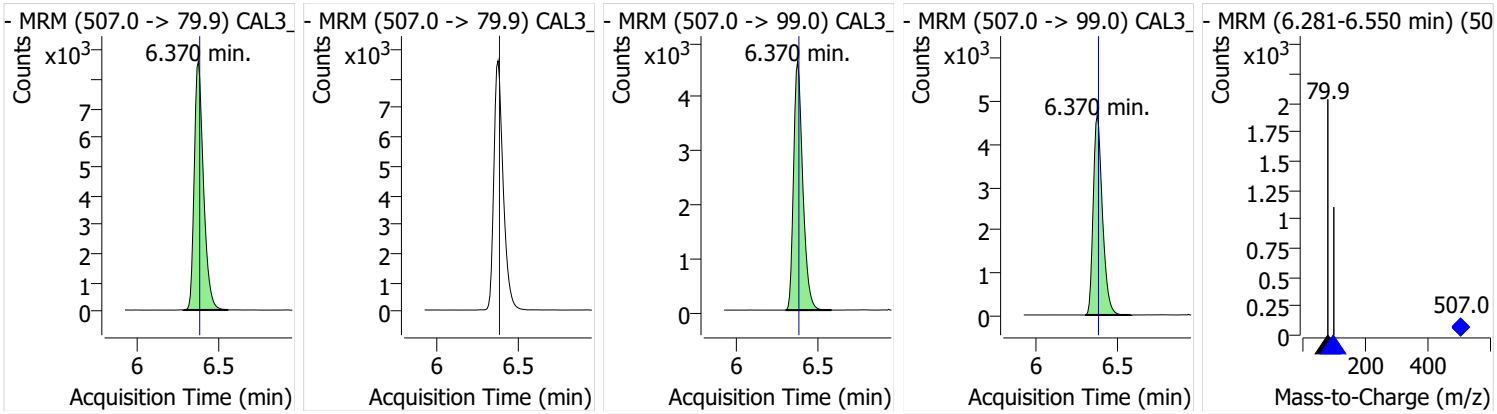
13C7-PFUnA - ISTD



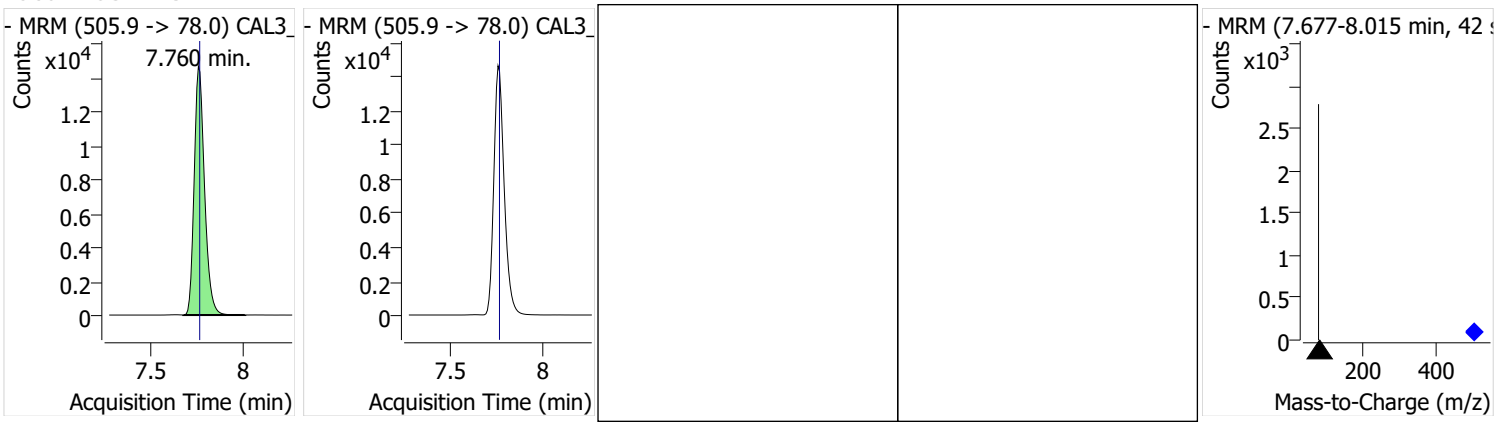
13C8-PFOA - ISTD



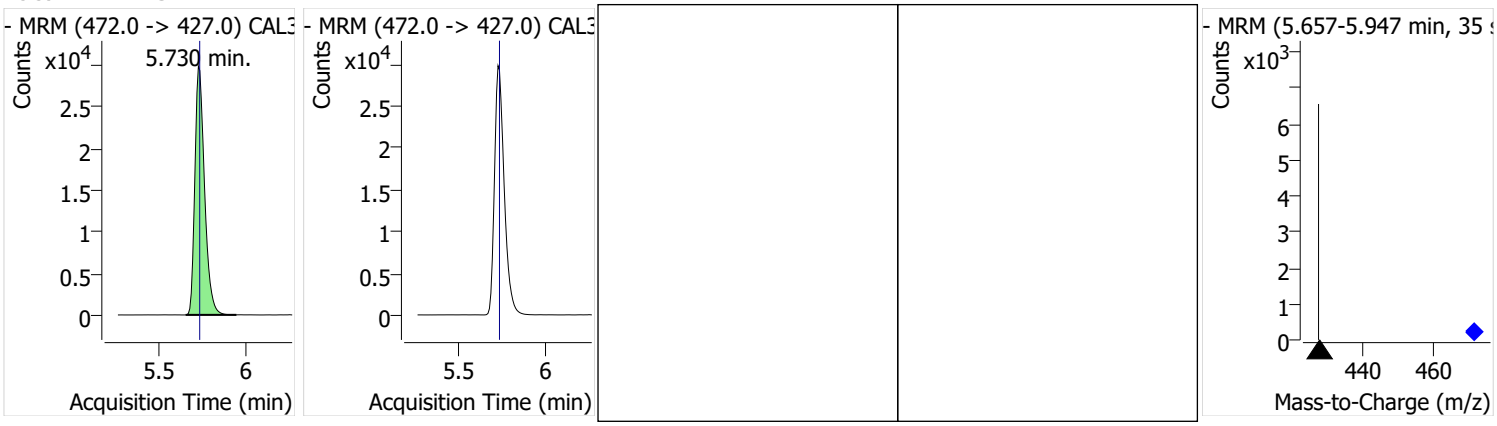
13C8-PFOS - ISTD



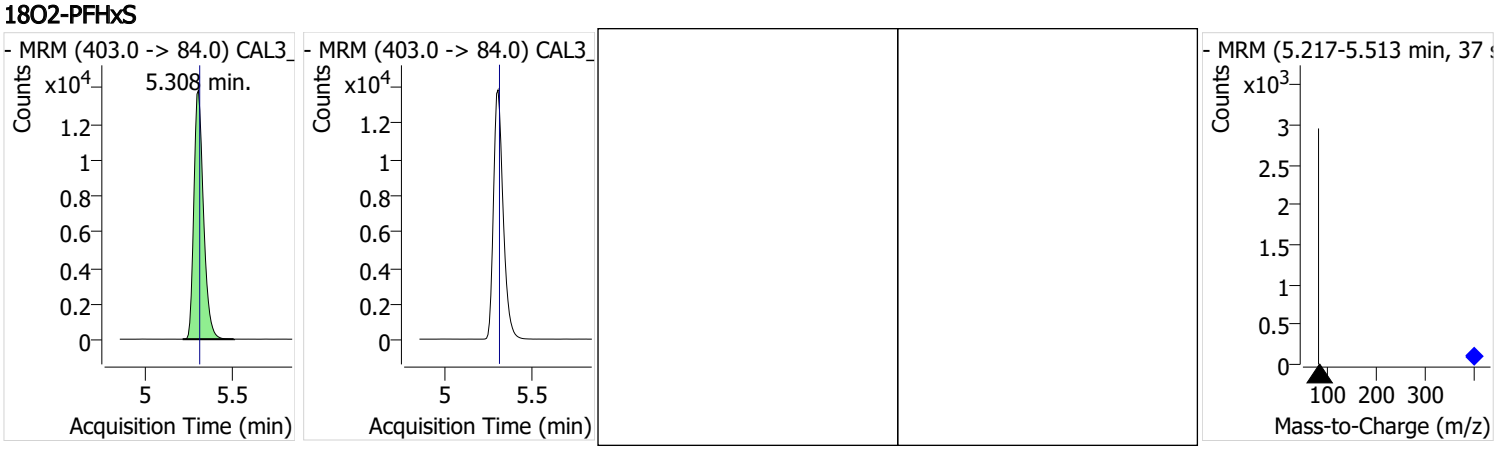
13C8-PFOSA - ISTD



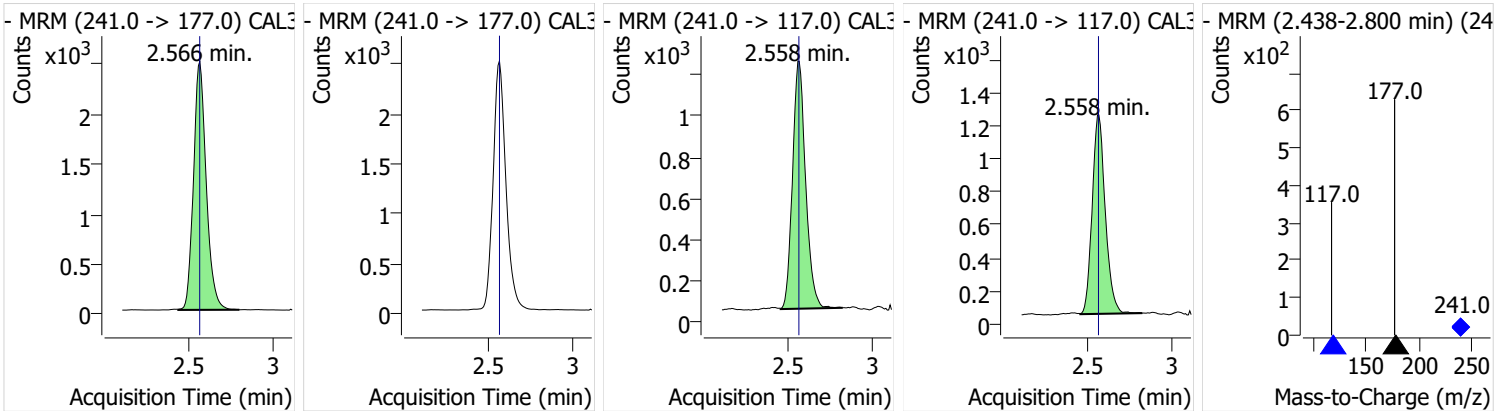
13C9-PFNA - ISTD



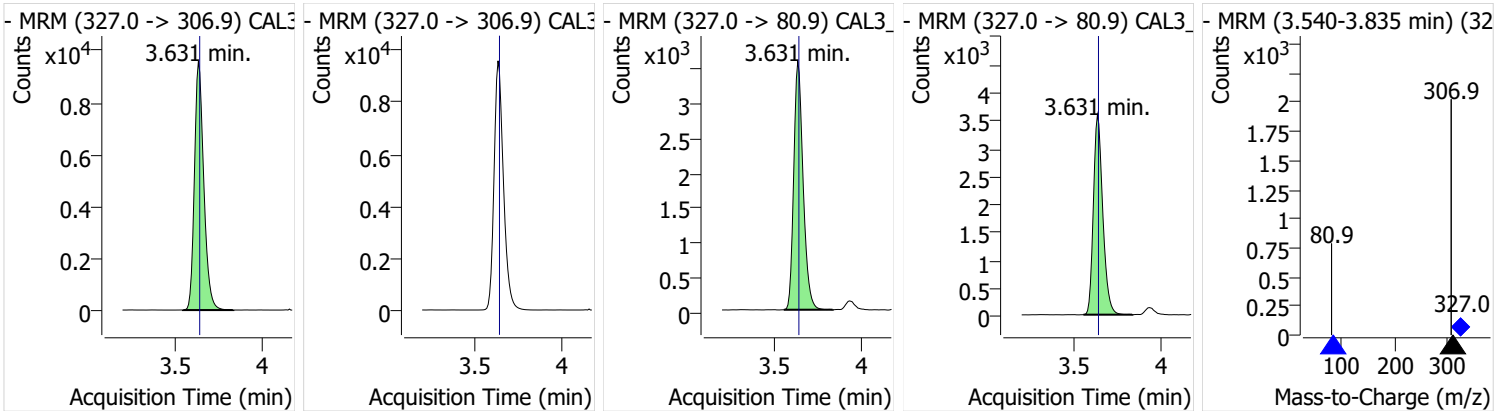
18O2-PFHxS



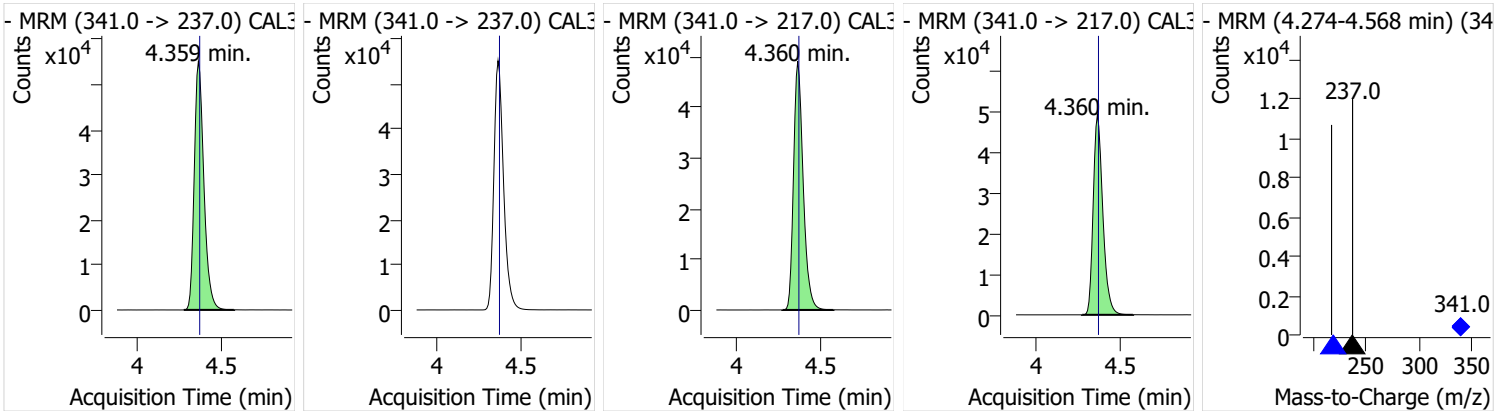
3:3FTCA



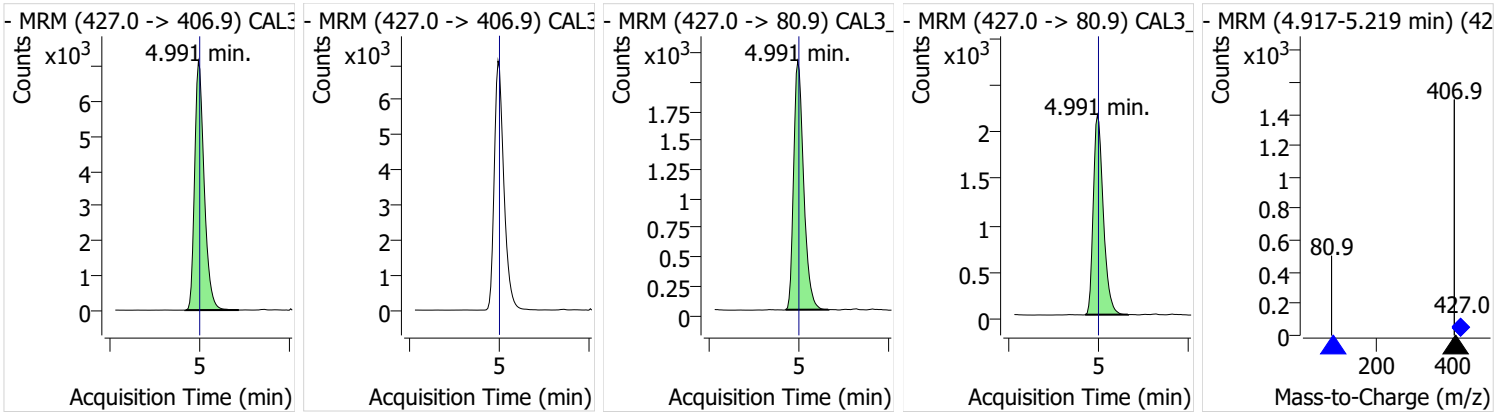
4:2FTS



5:3FTCA



6:2FTS



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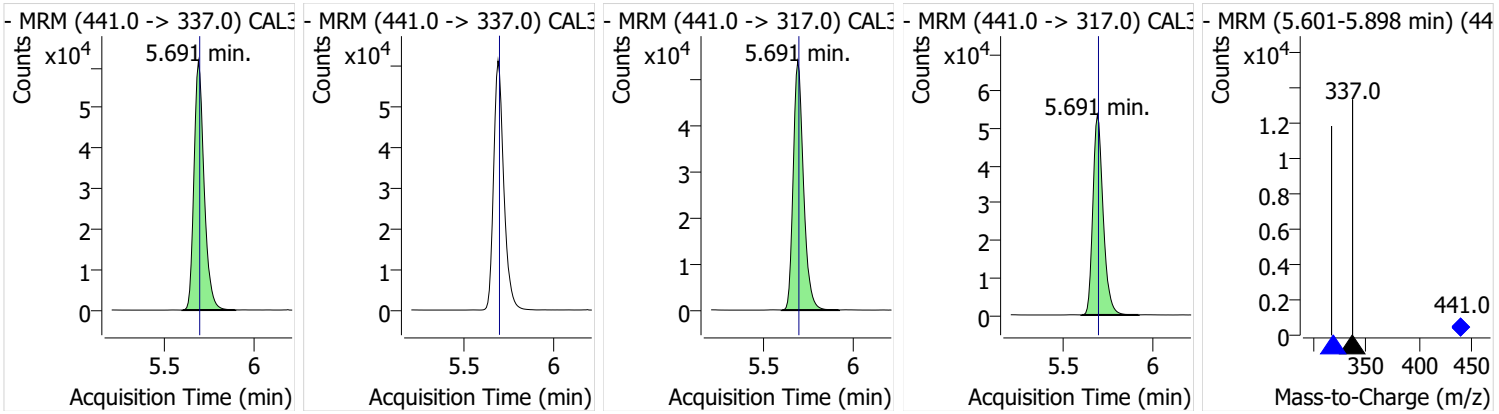
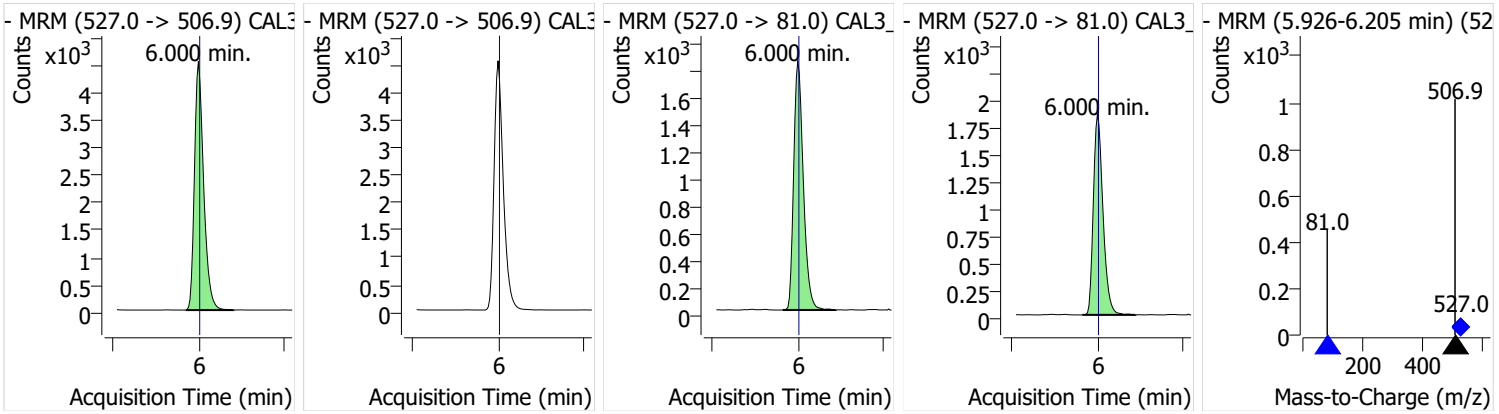
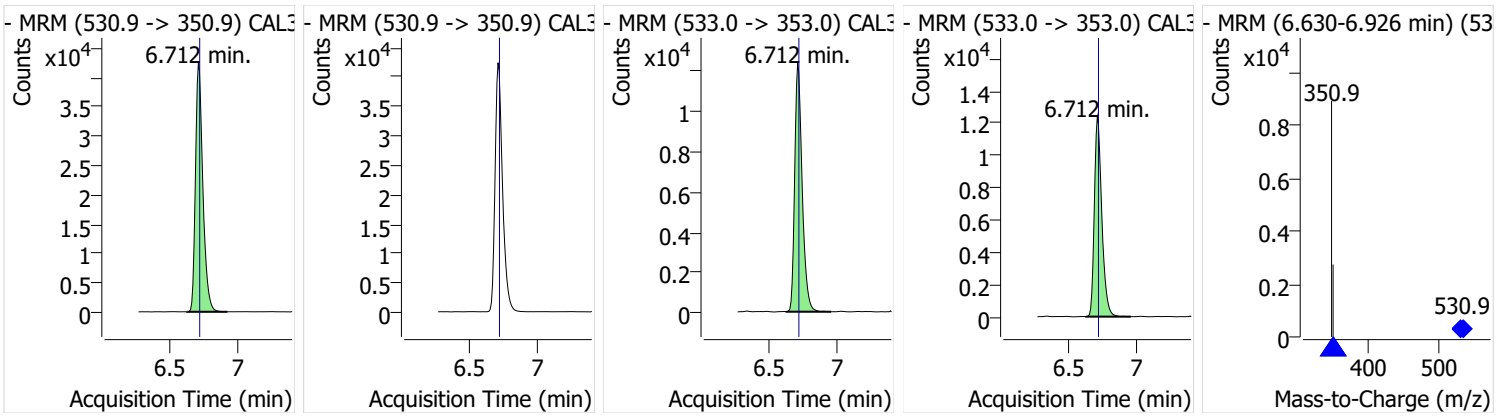


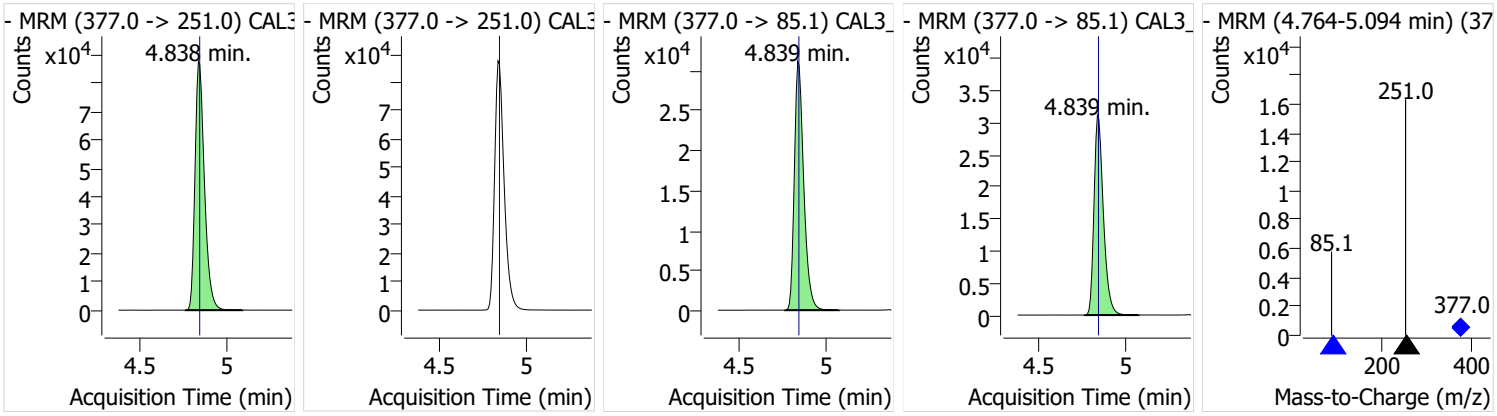
8:2FTS



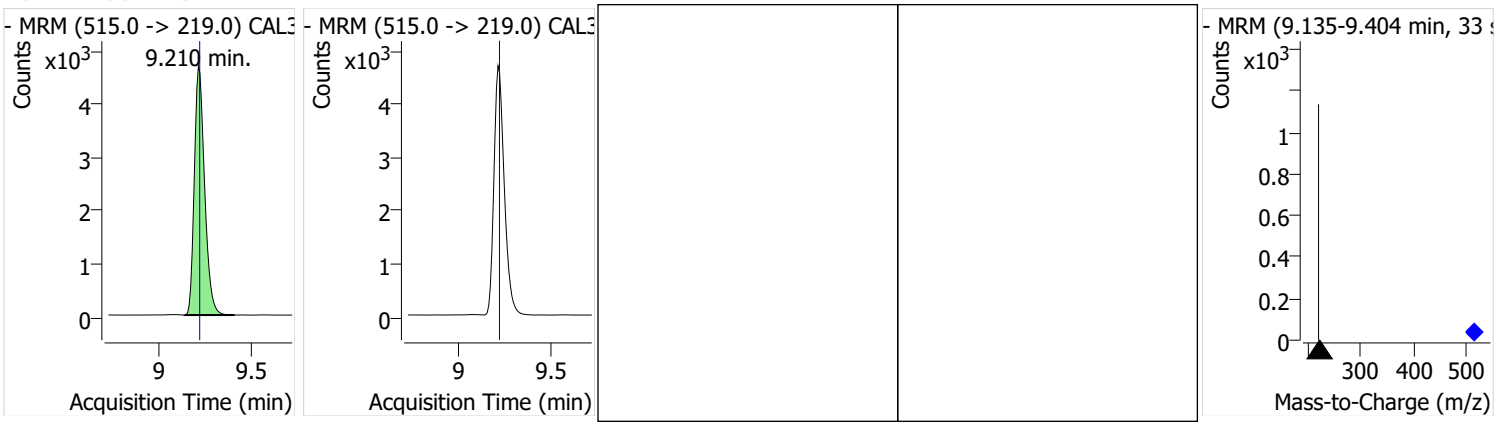
9Cl-PF3ONS



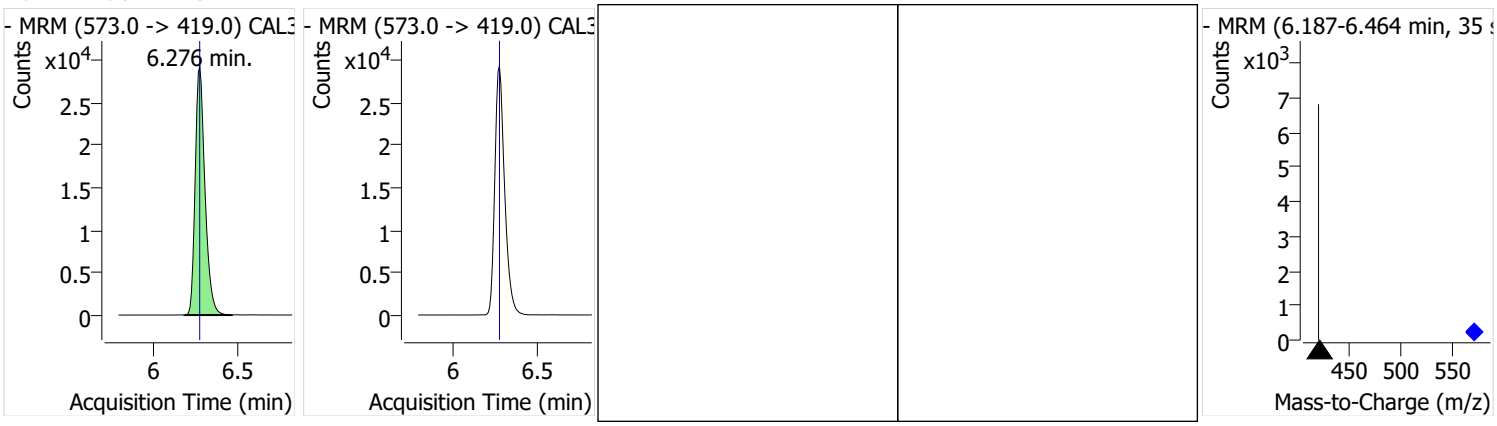
ADONA



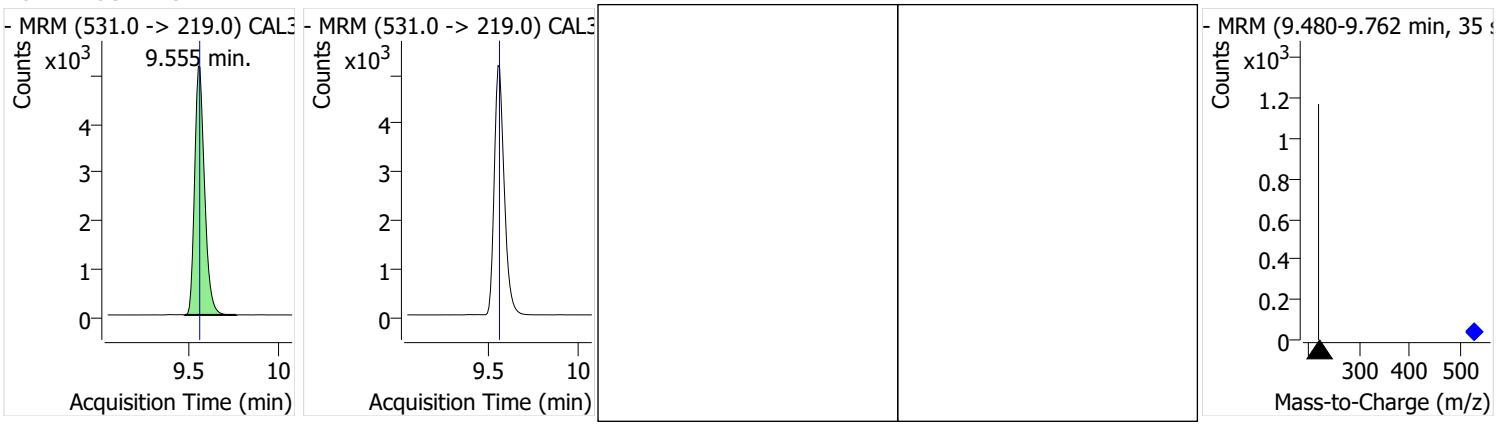
D3-NMeFOSA - ISTD



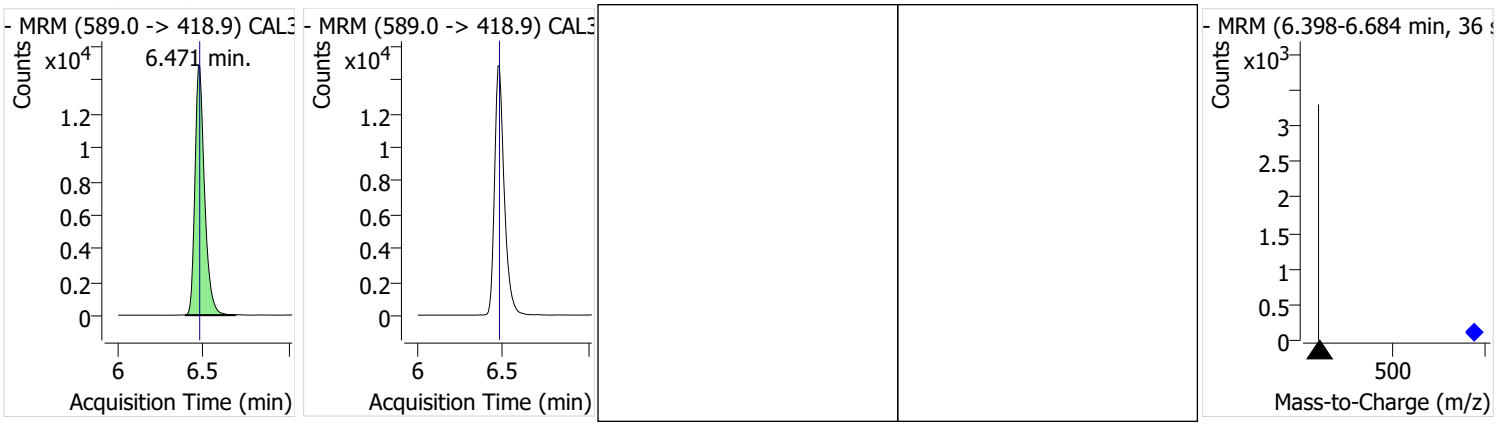
D3-NMeFOSAA - ISTD



D5-NEtFOSA - ISTD

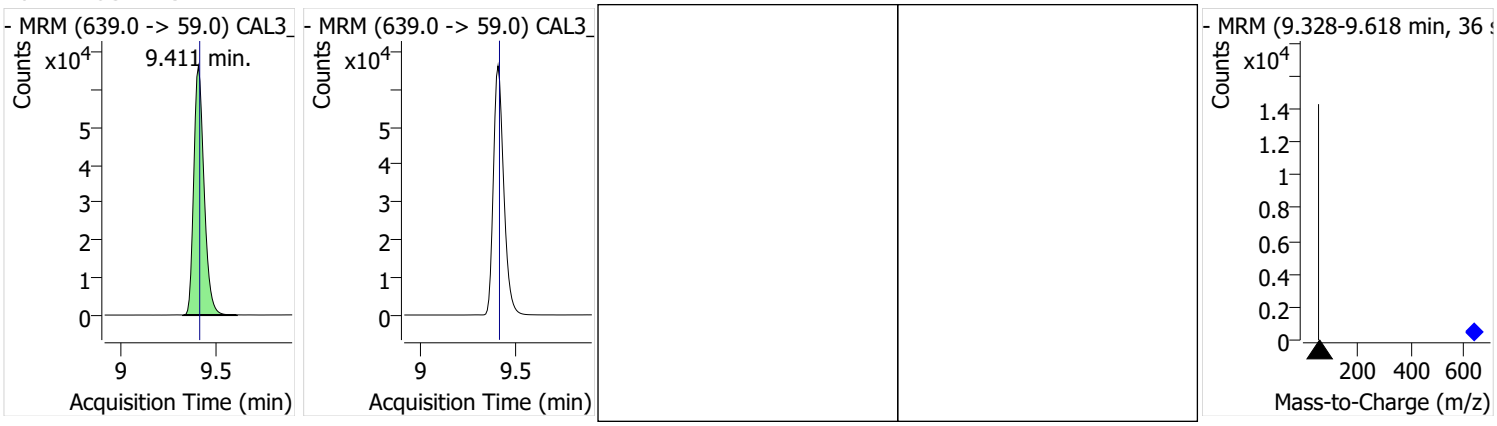


D5-NEtFOSAA - ISTD

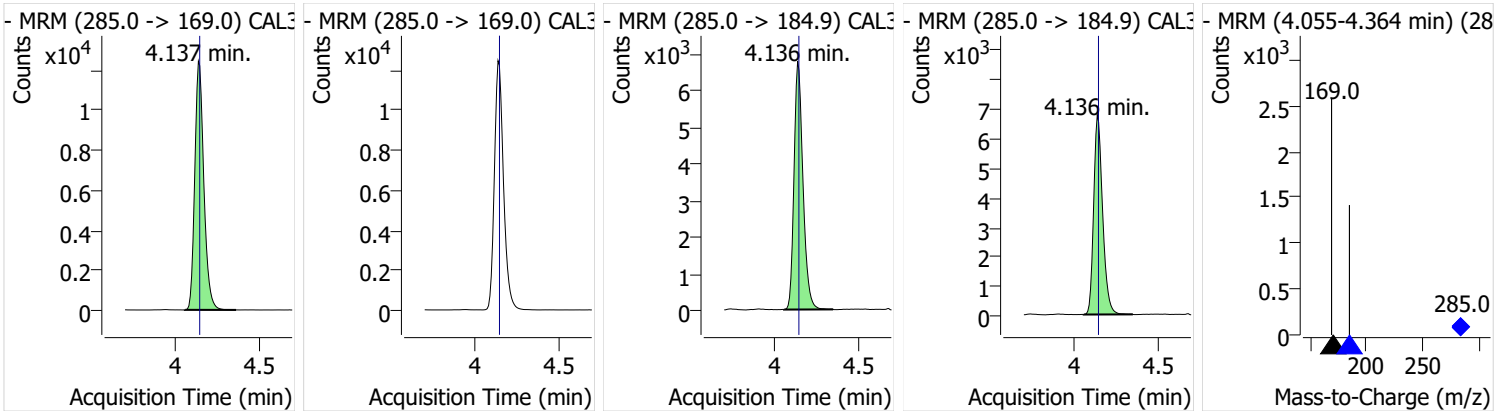


D7-NMeFOSE - ISTD

D9-NEtFOSE - ISTD



HFPO-DA



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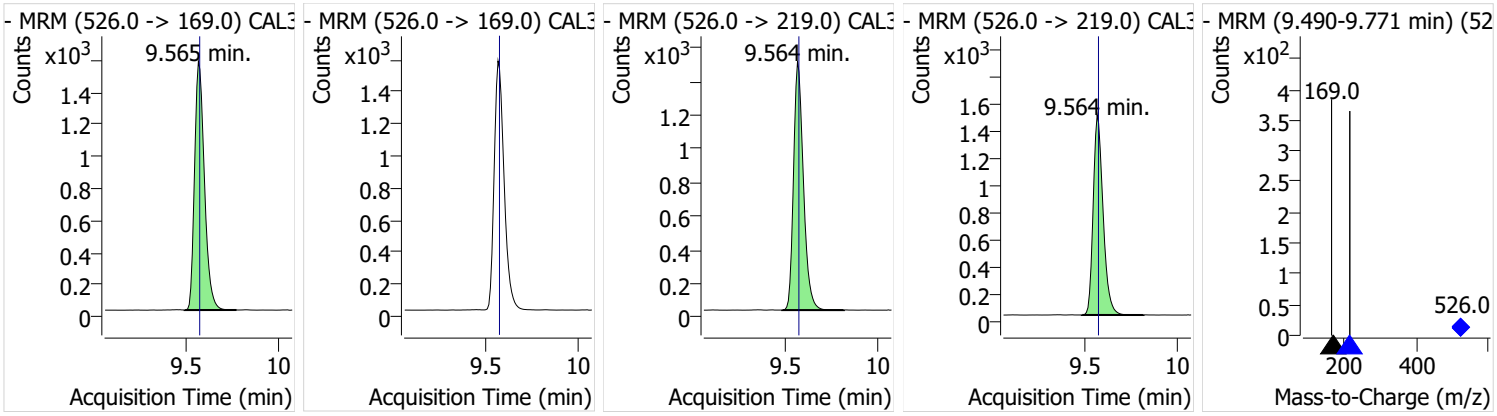

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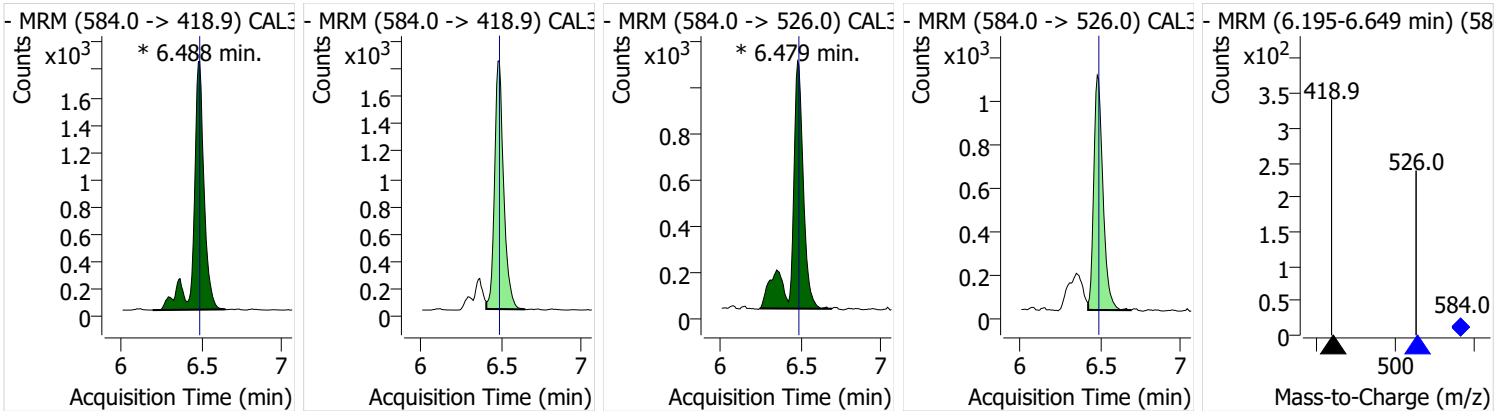

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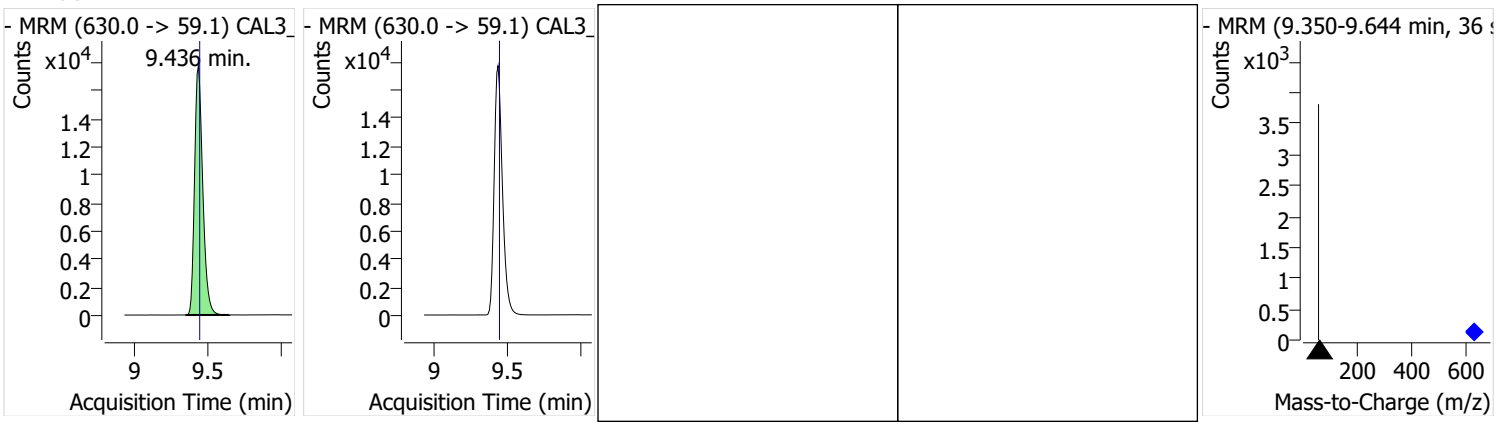

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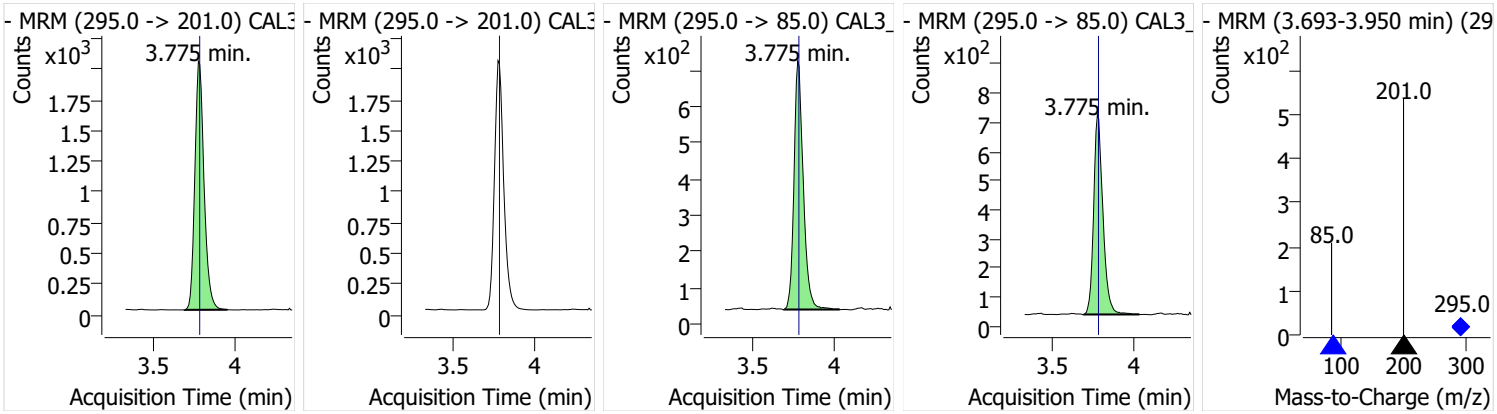

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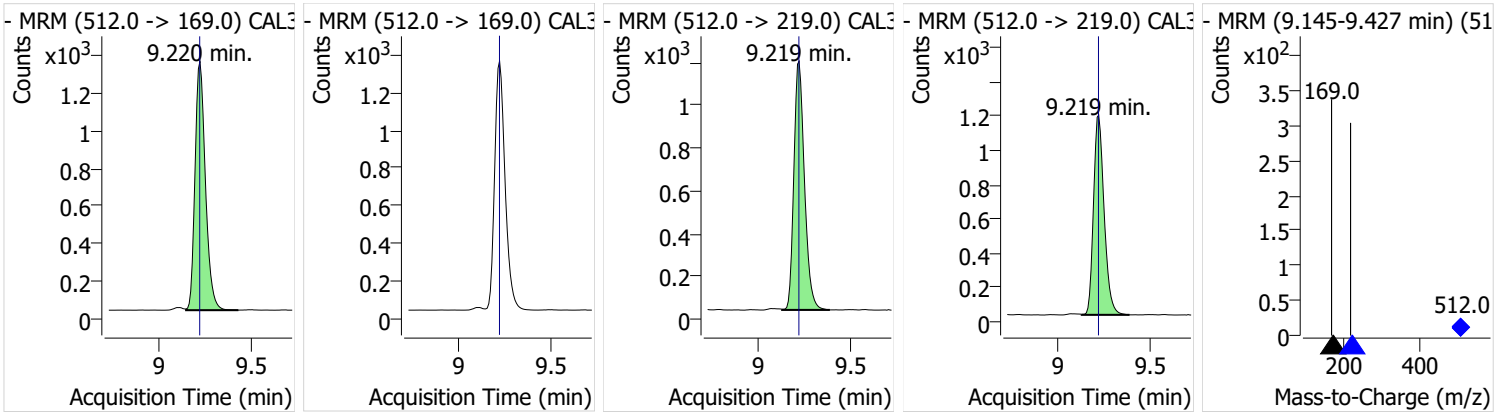

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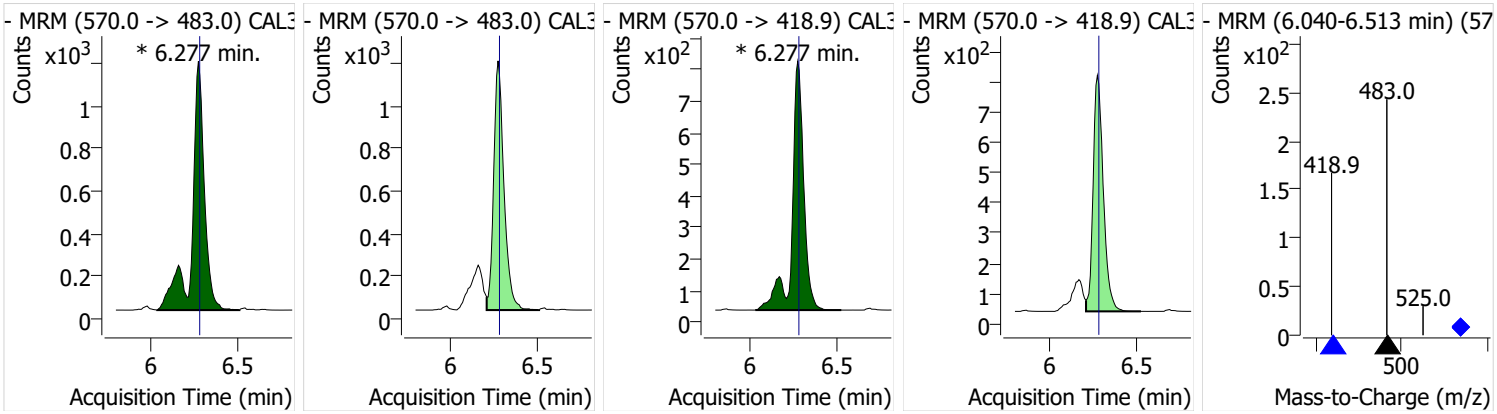

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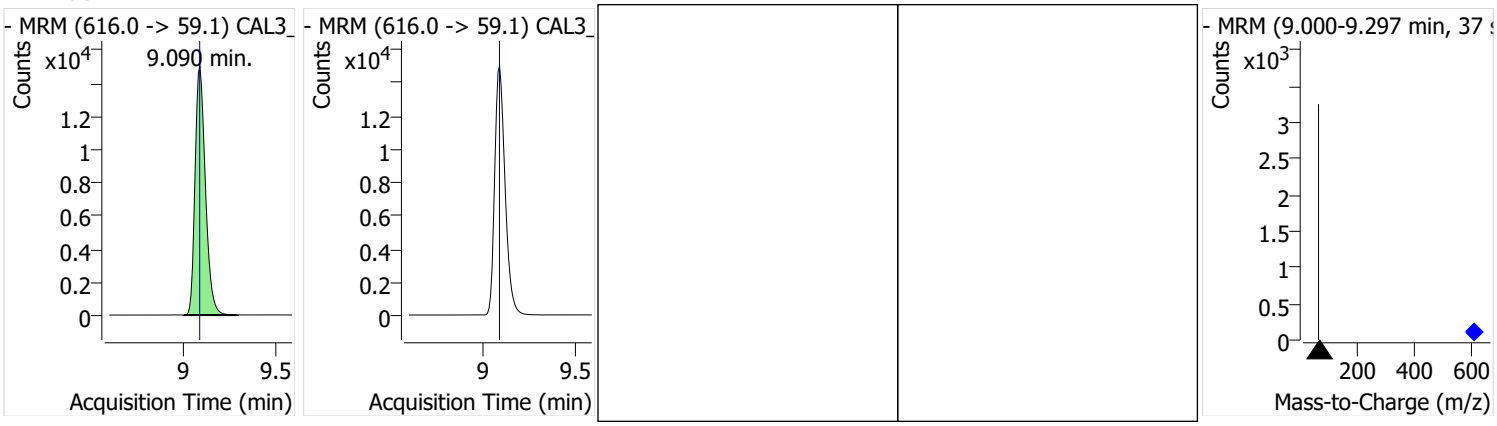

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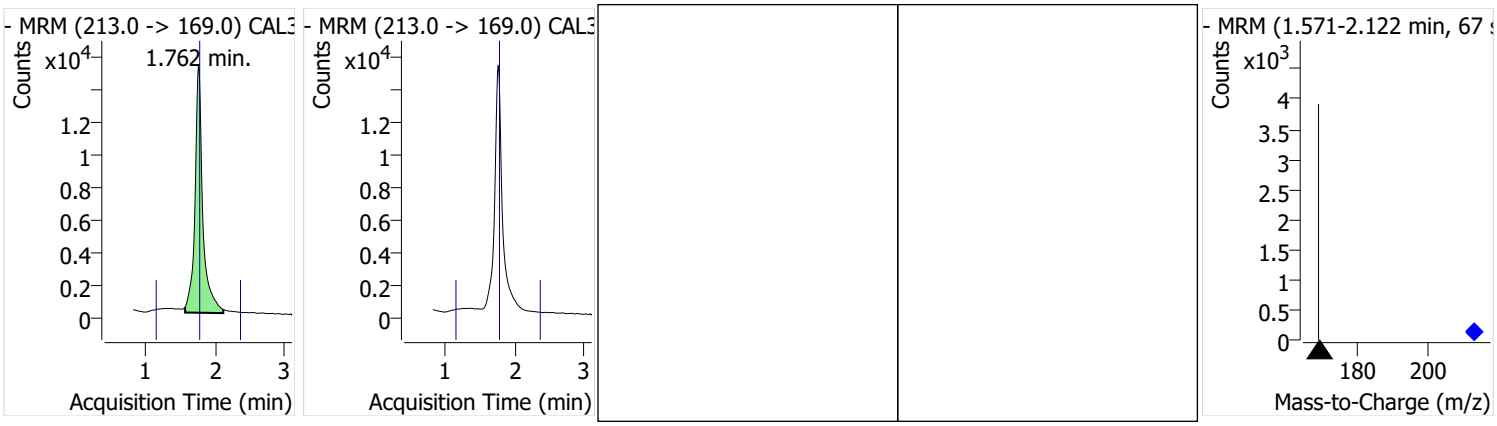

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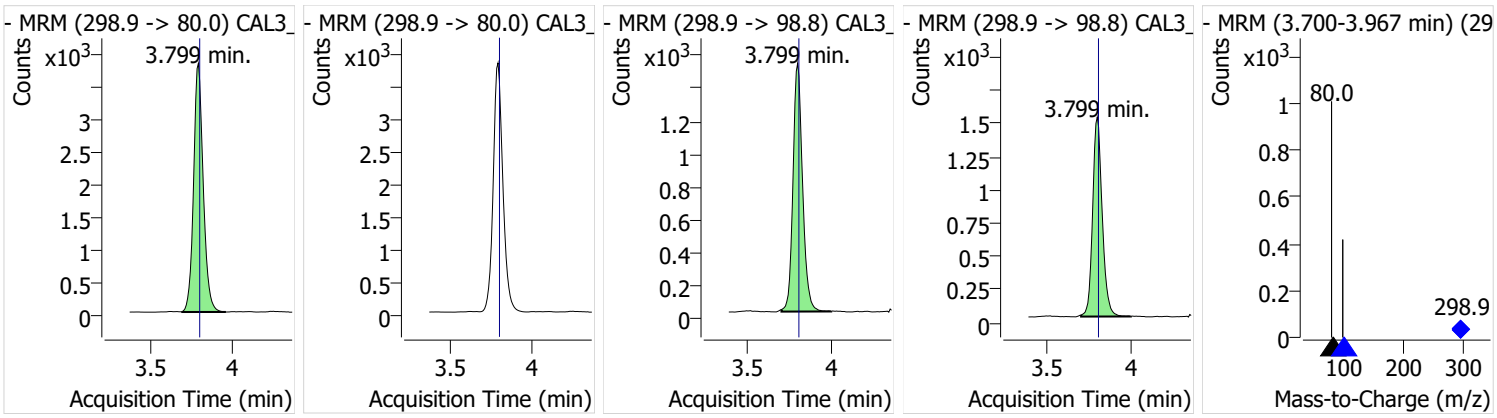

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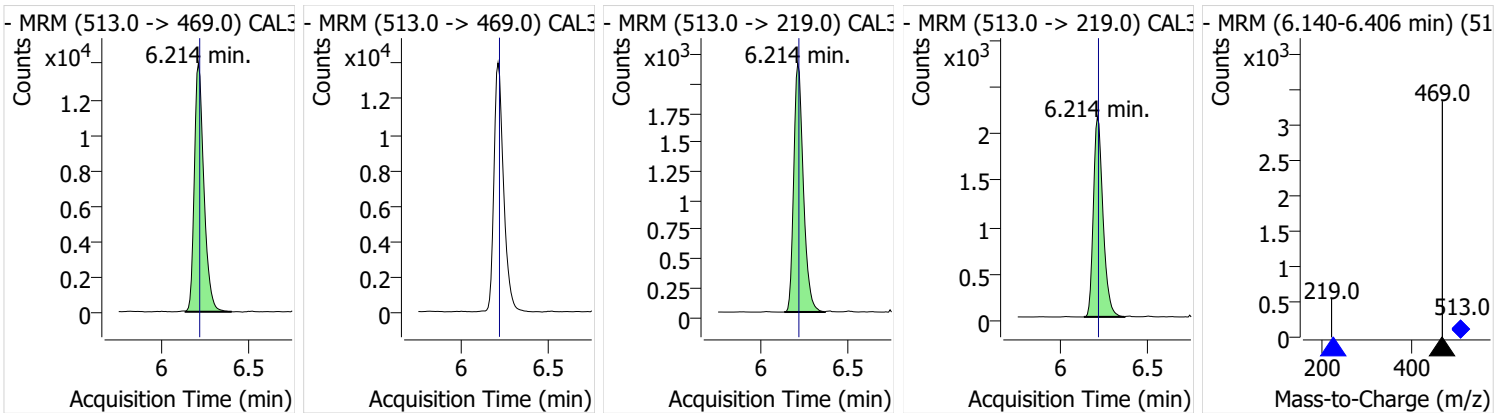

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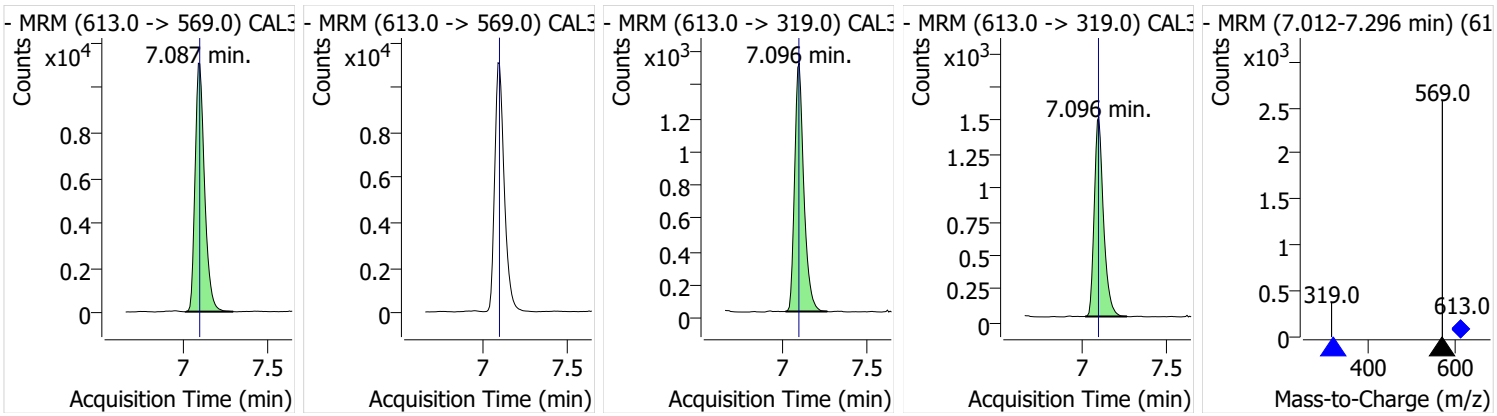

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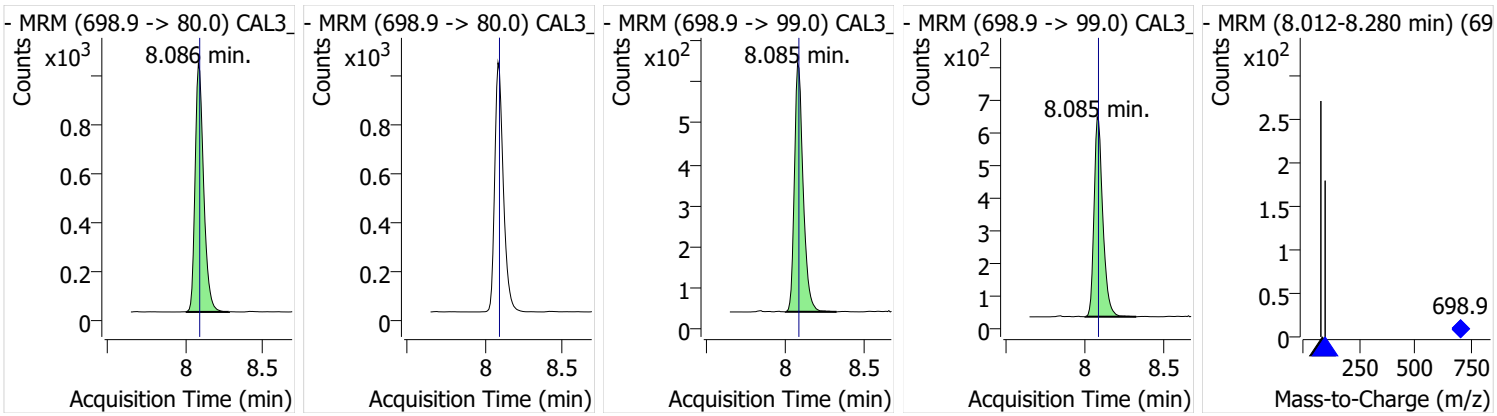

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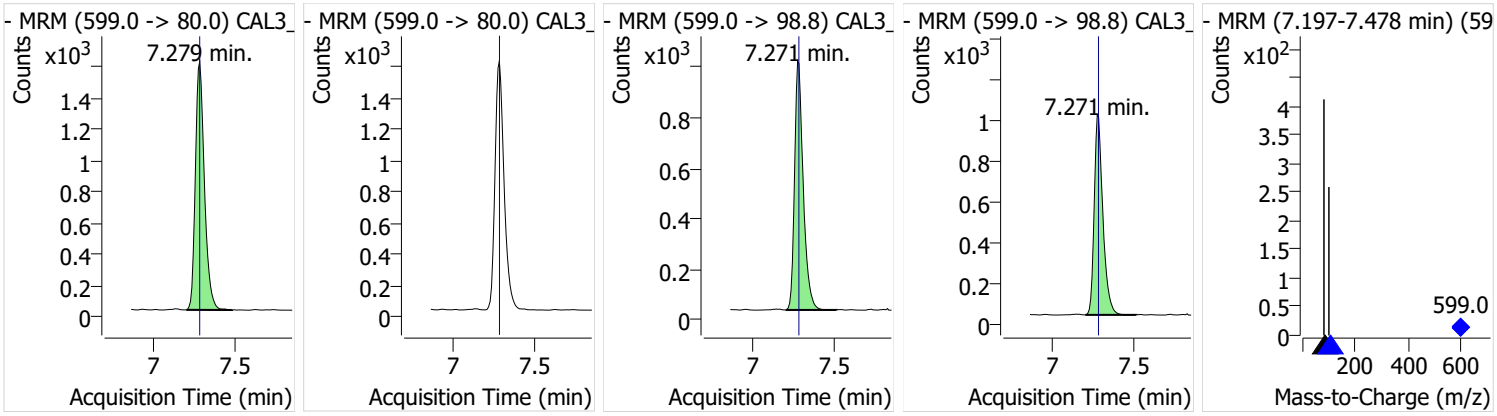

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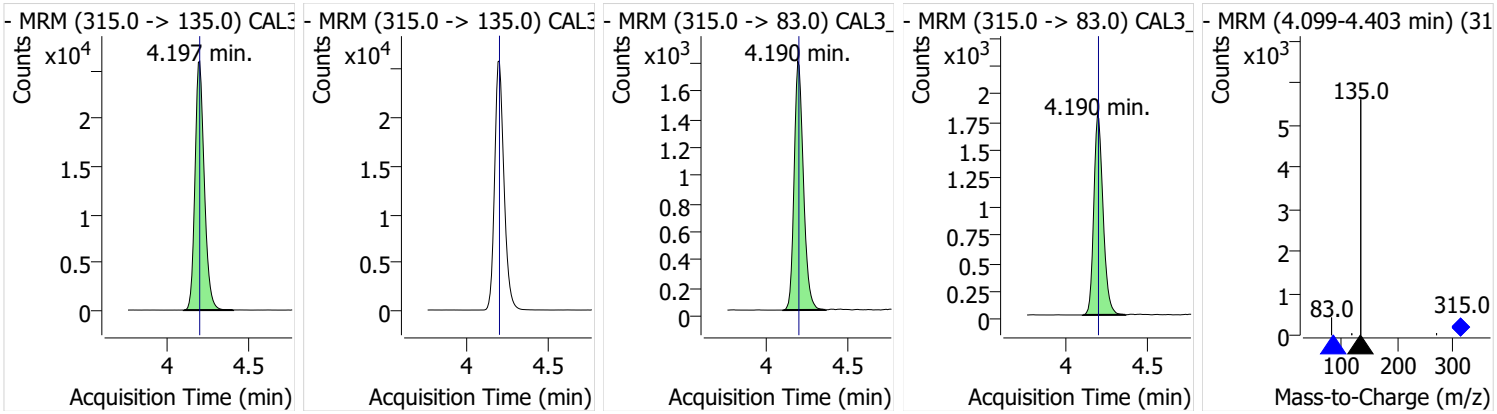

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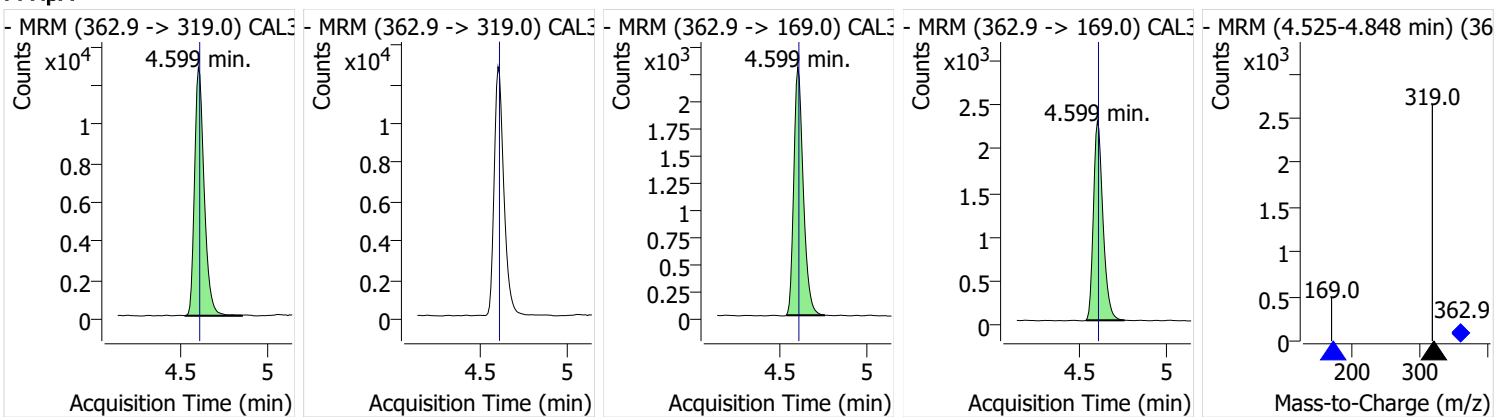

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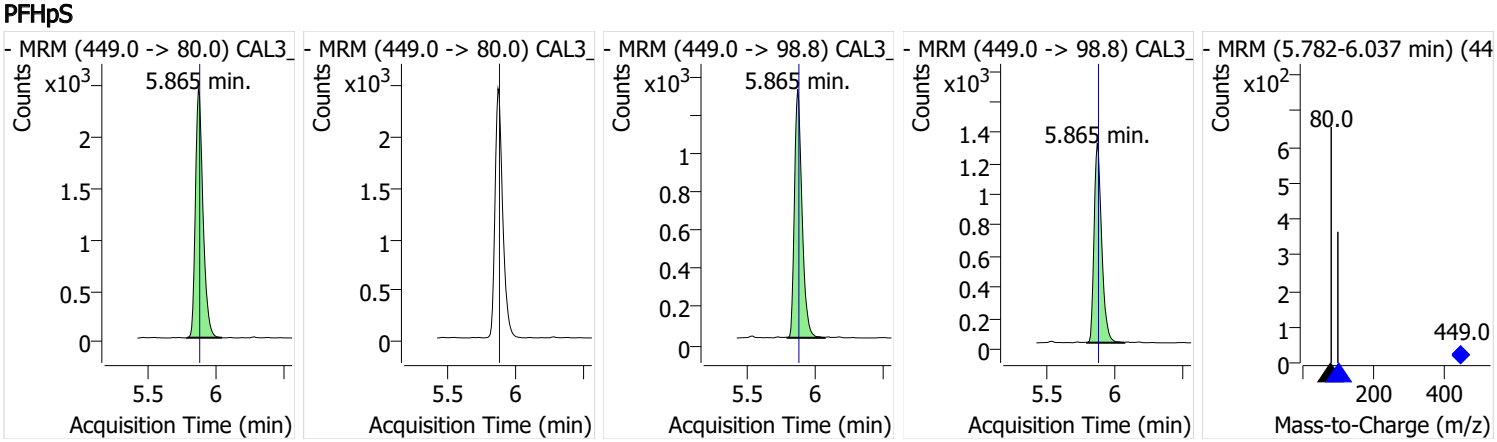

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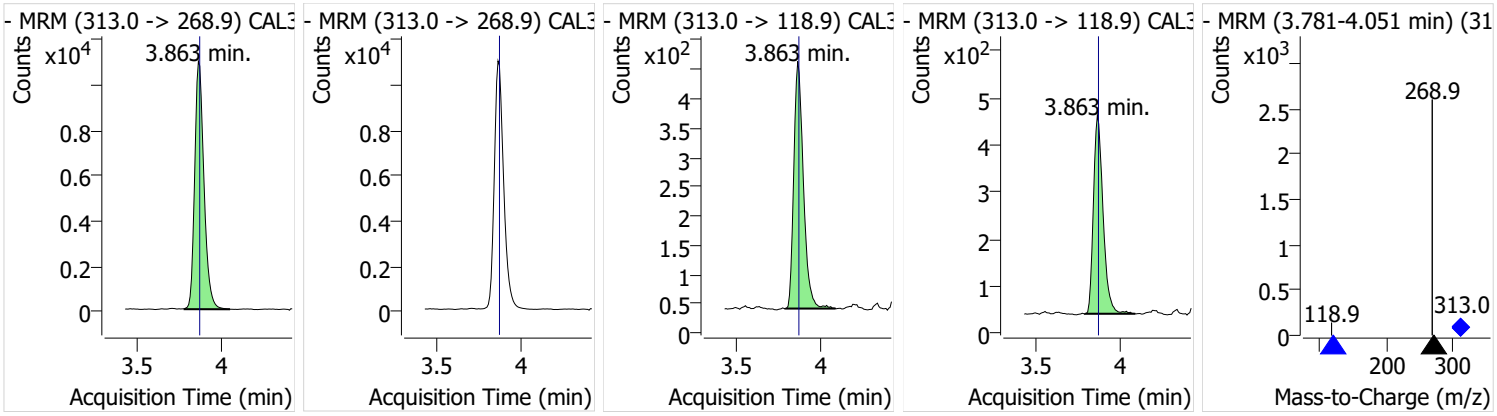

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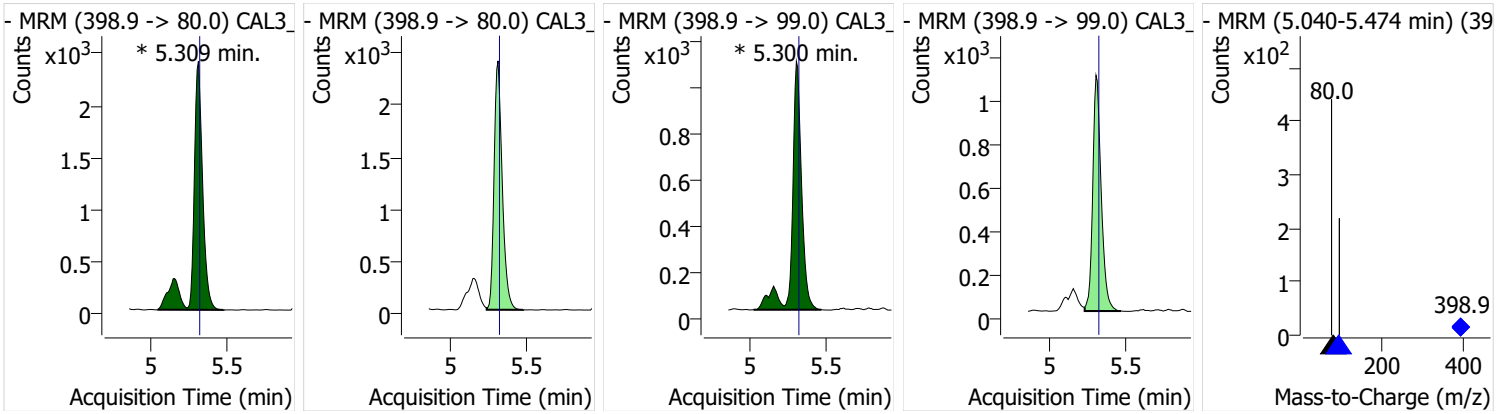

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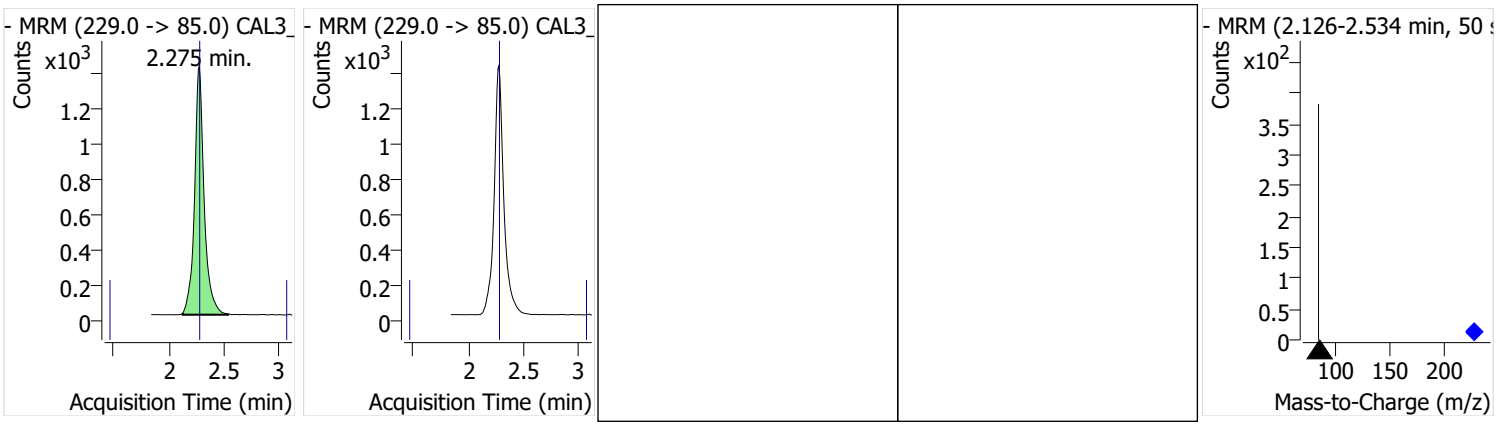

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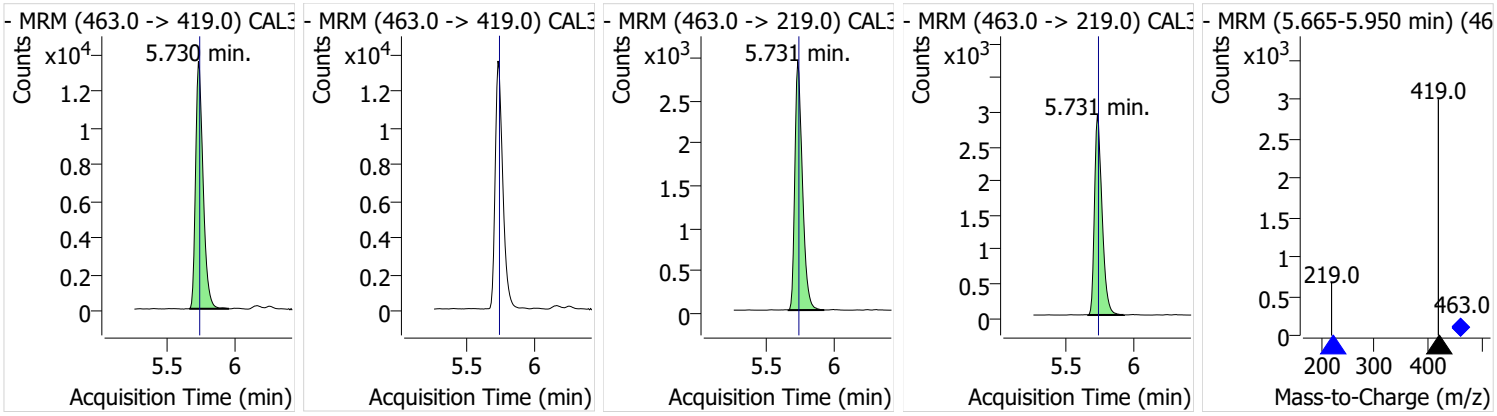

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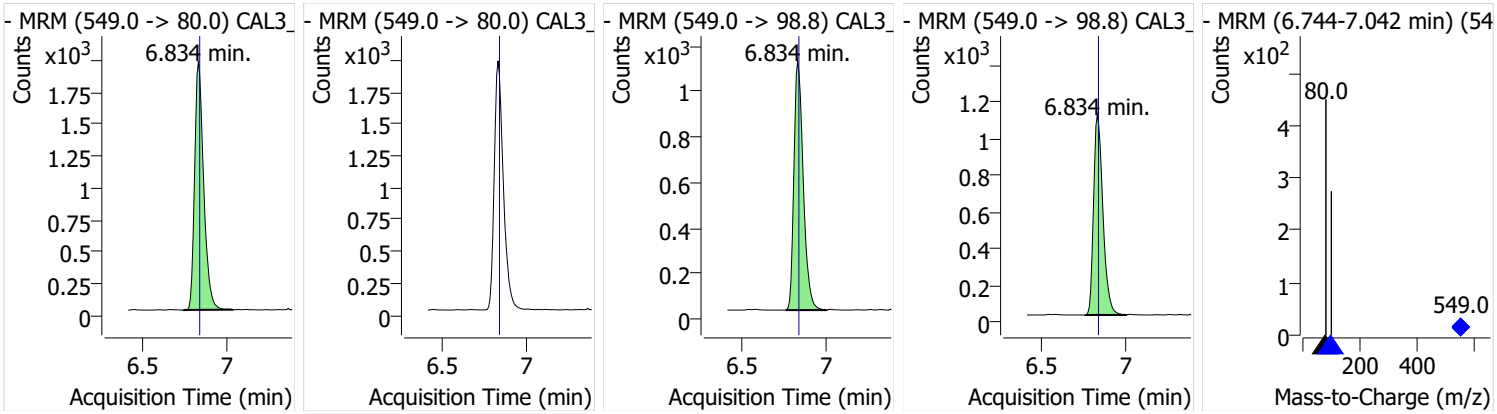

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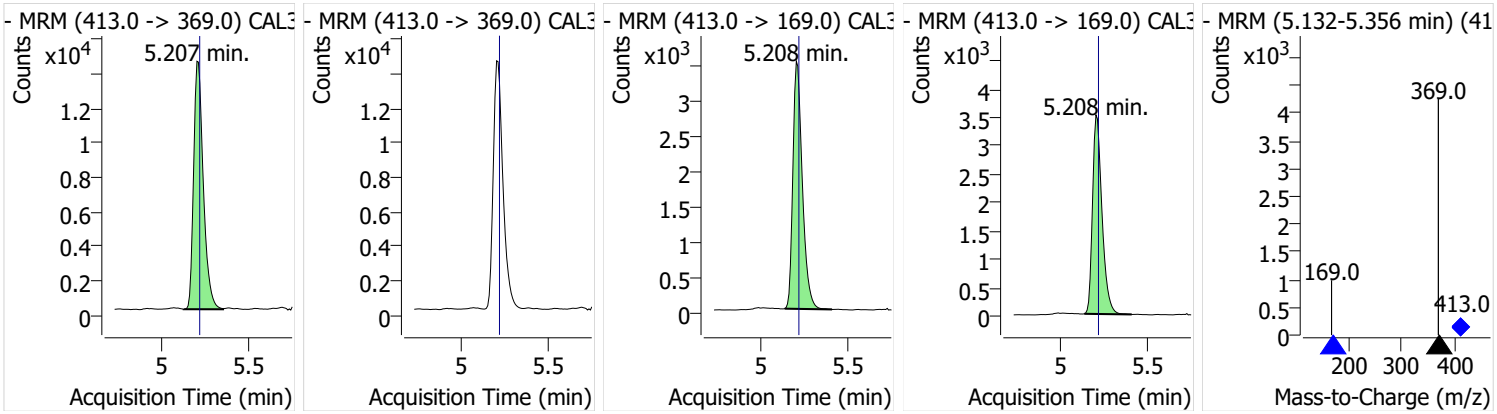

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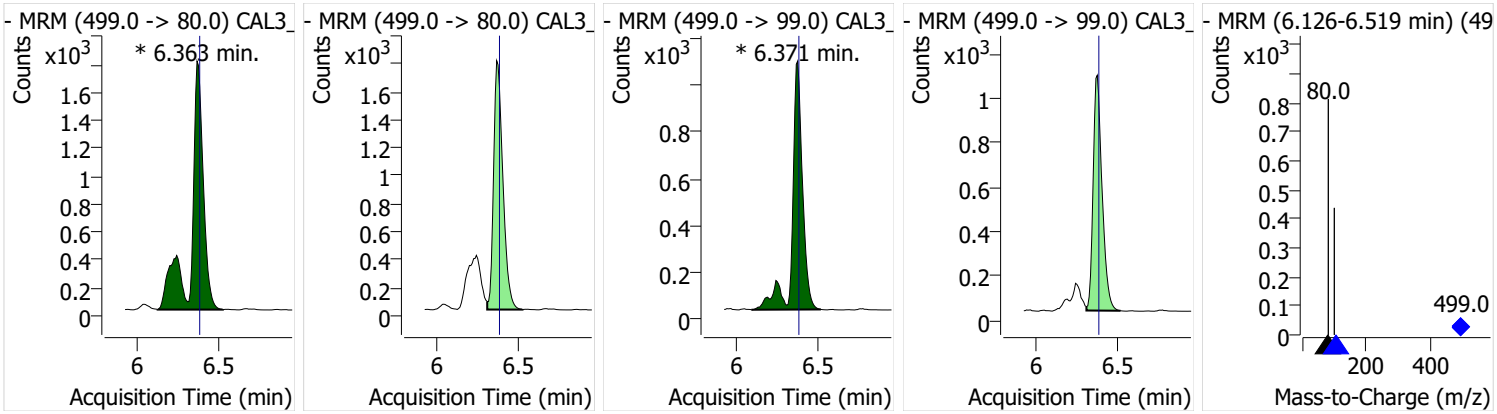

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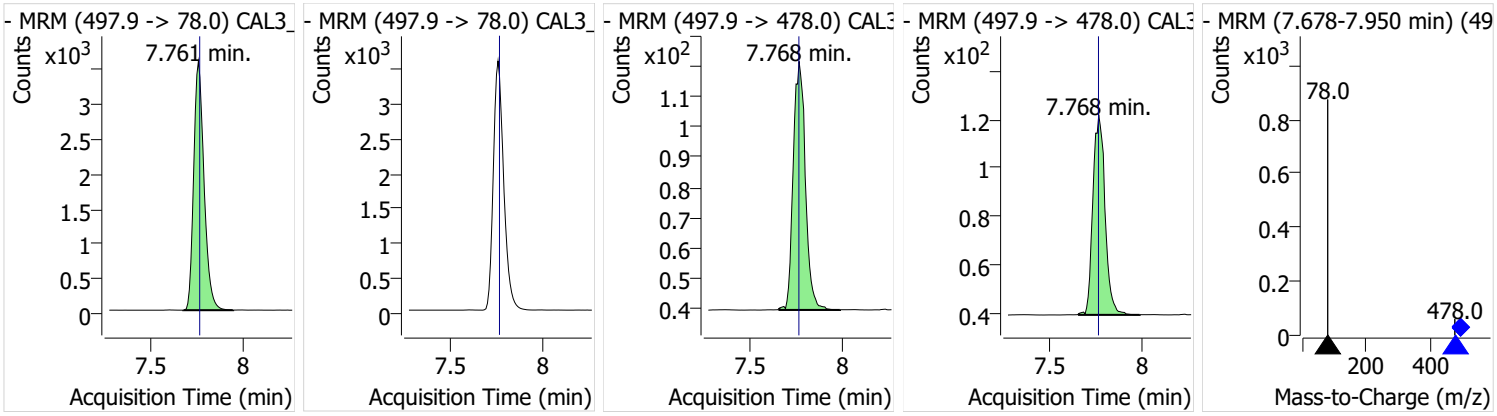

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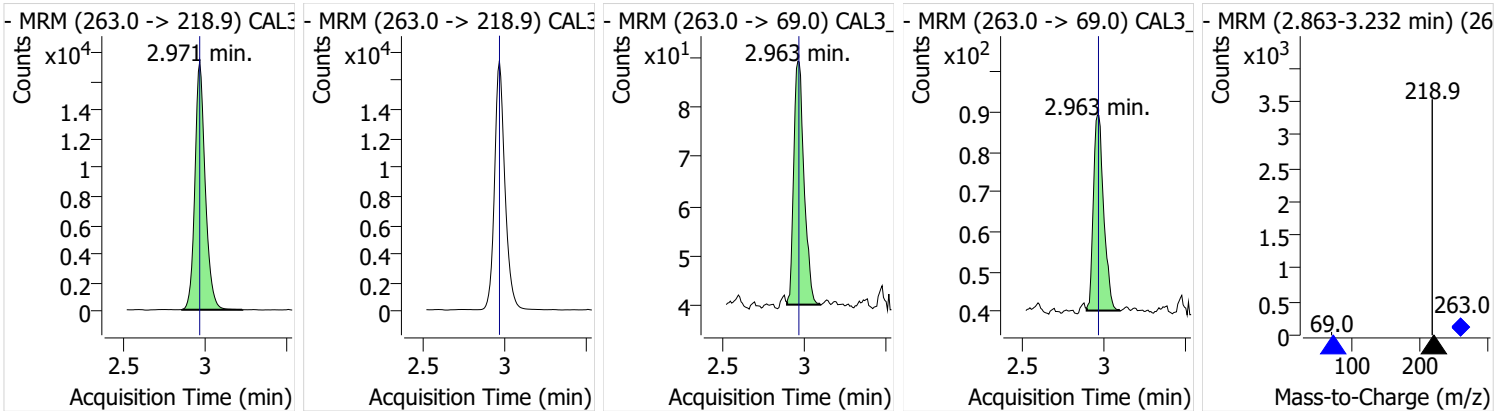

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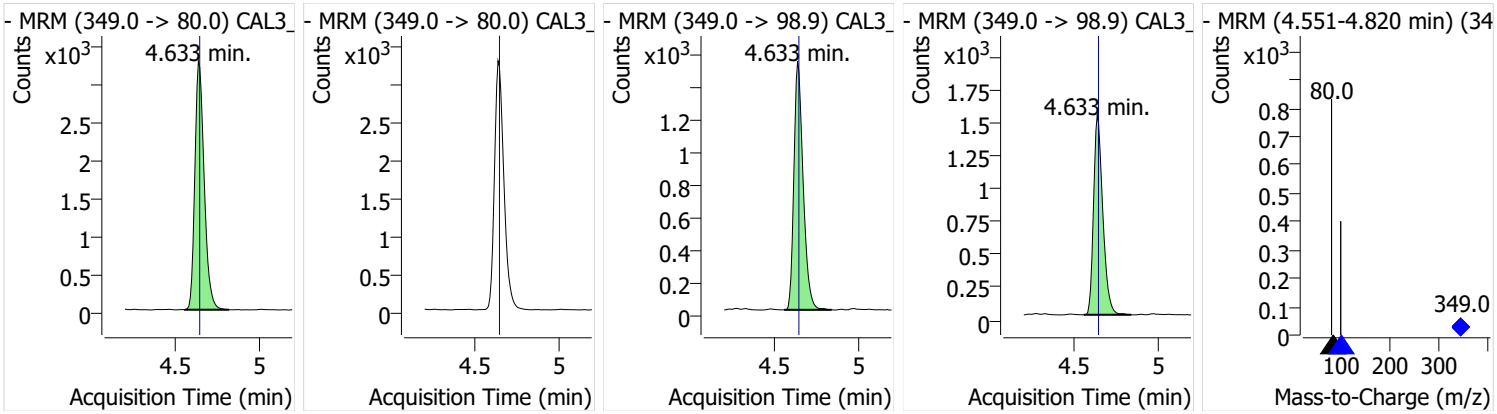

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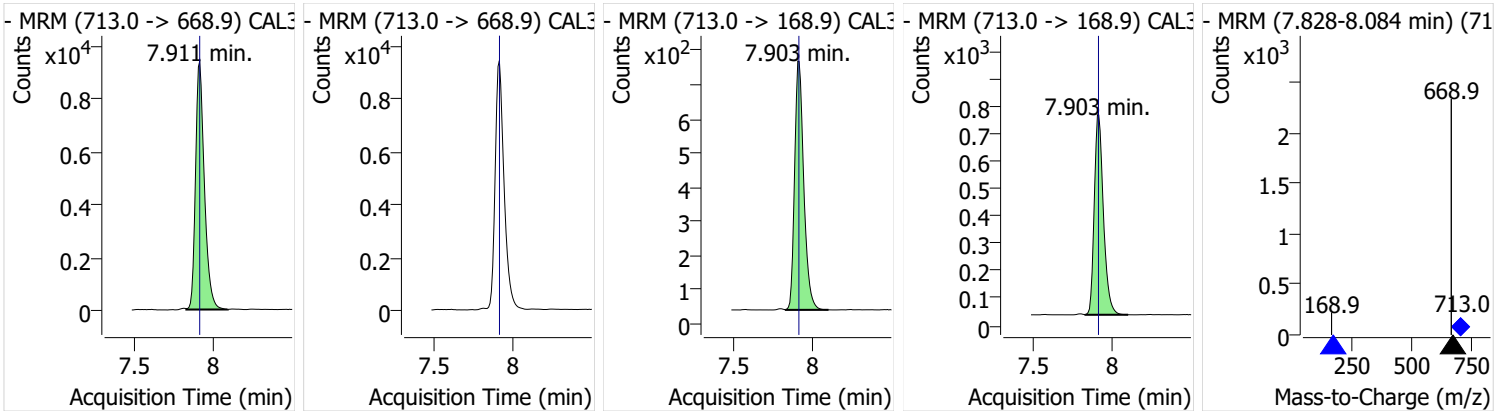

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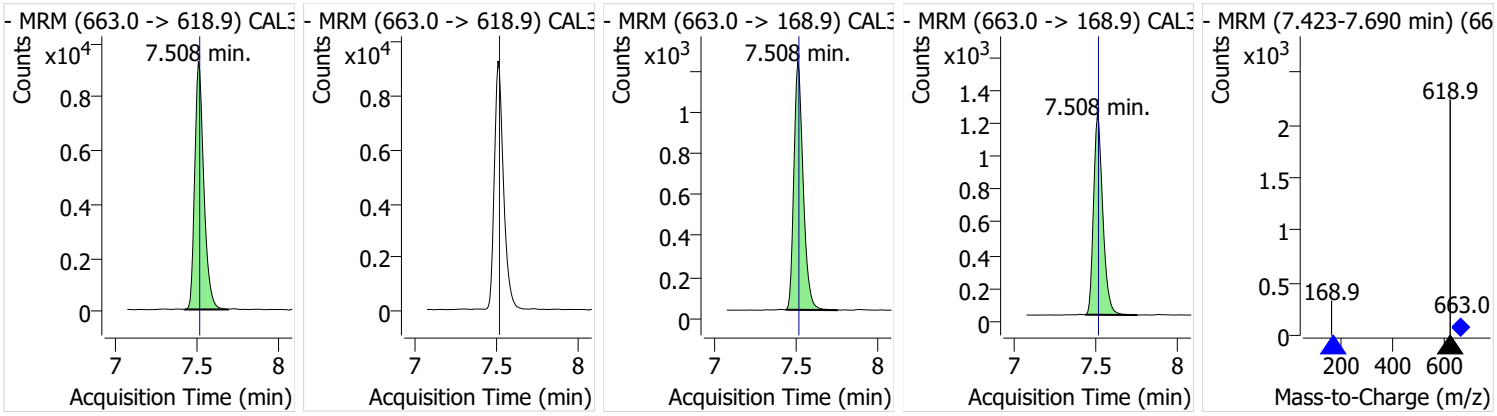

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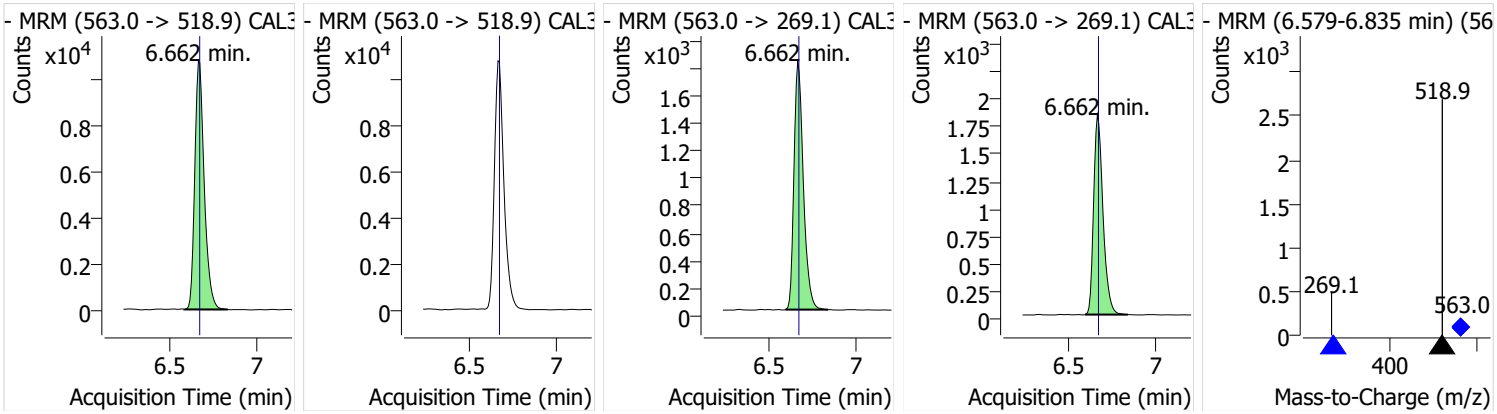

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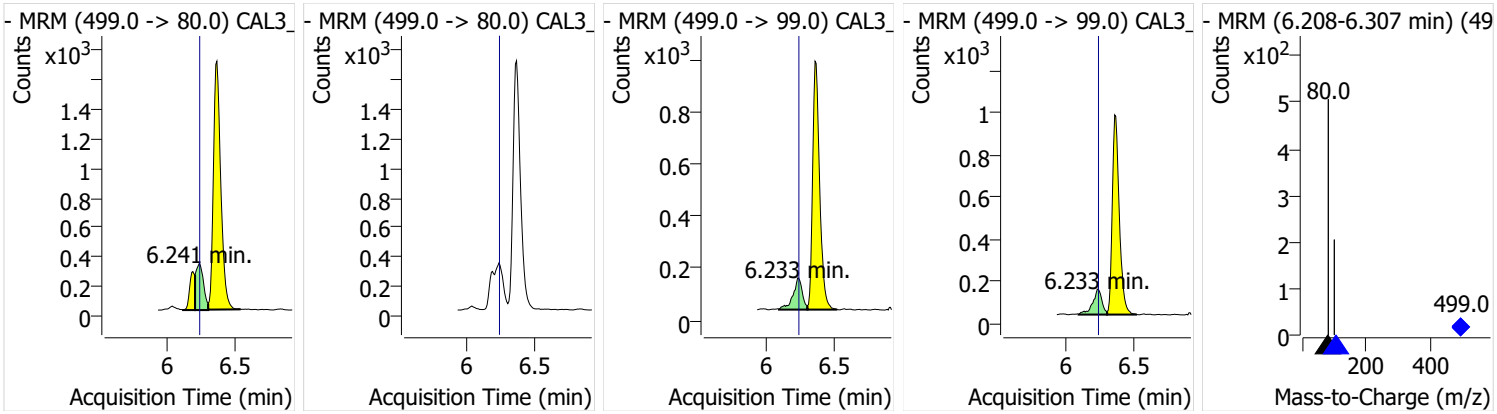

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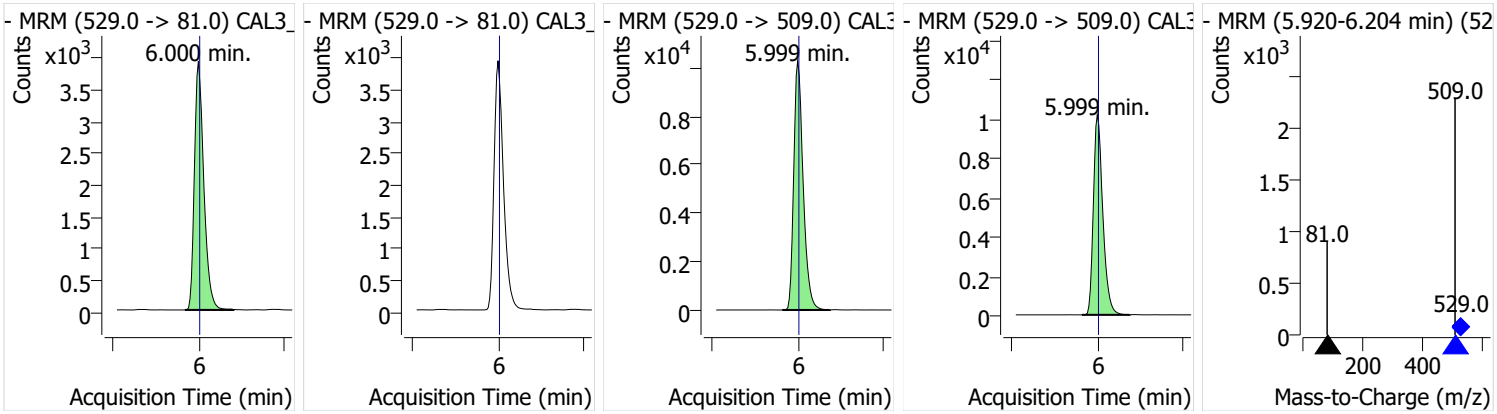

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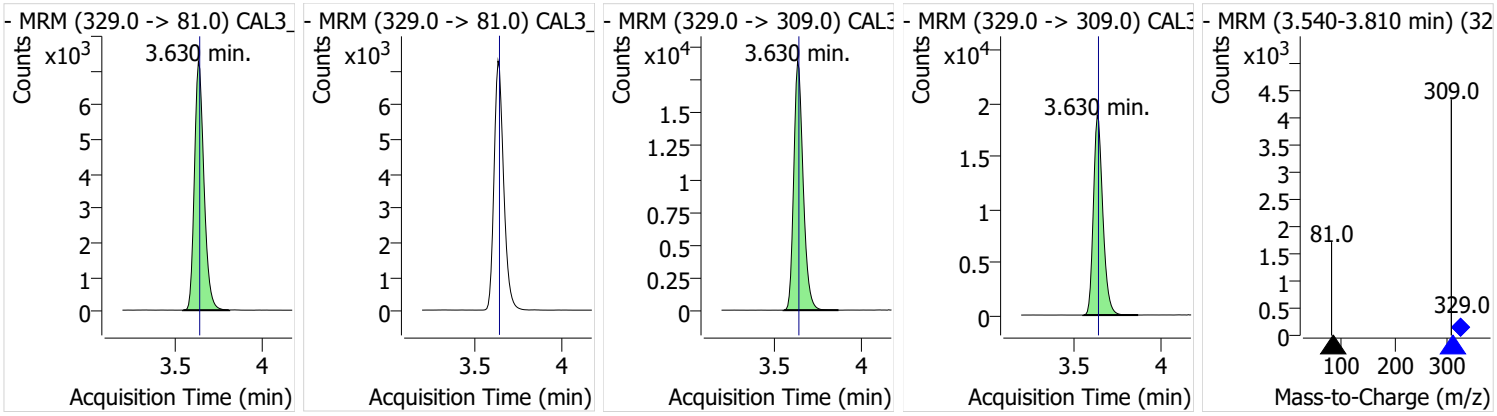

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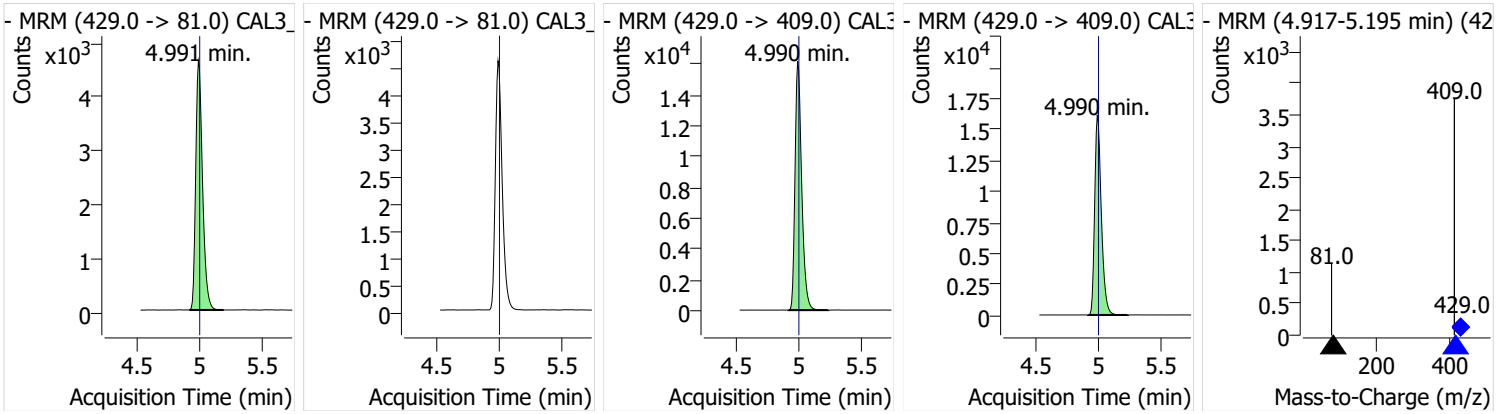

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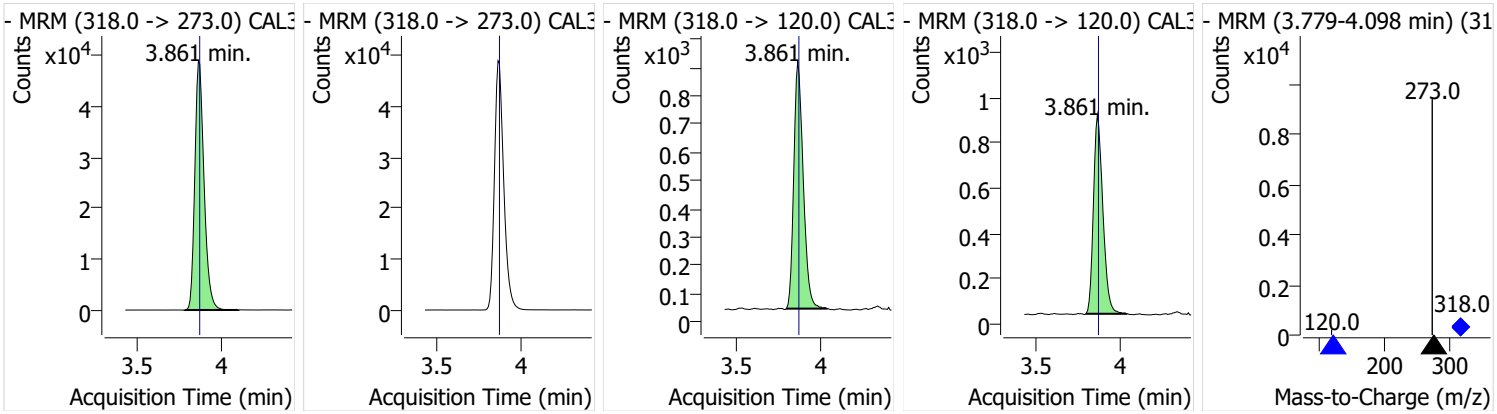

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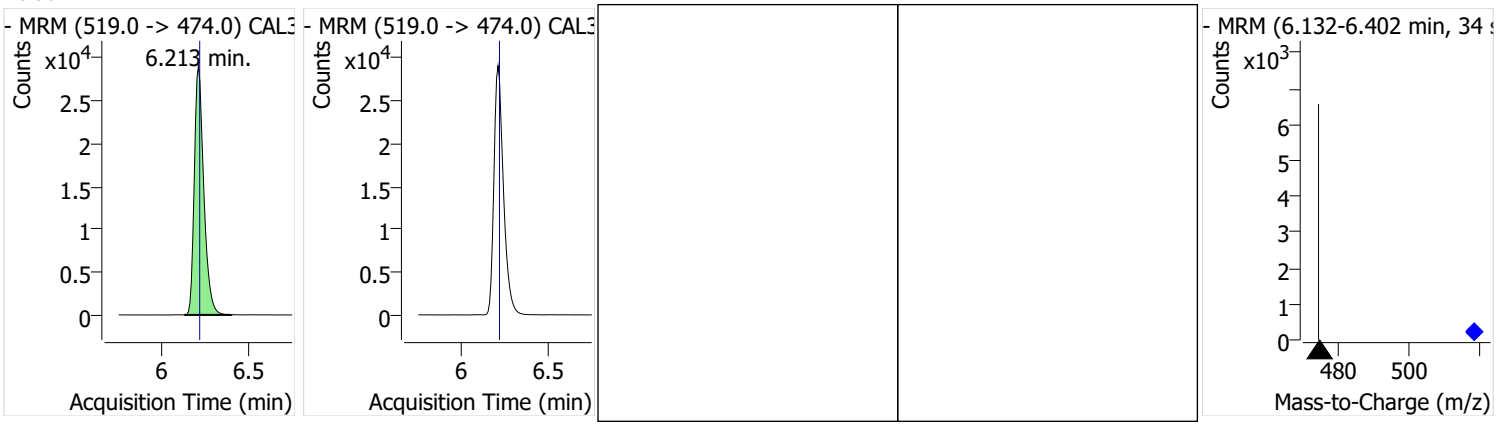

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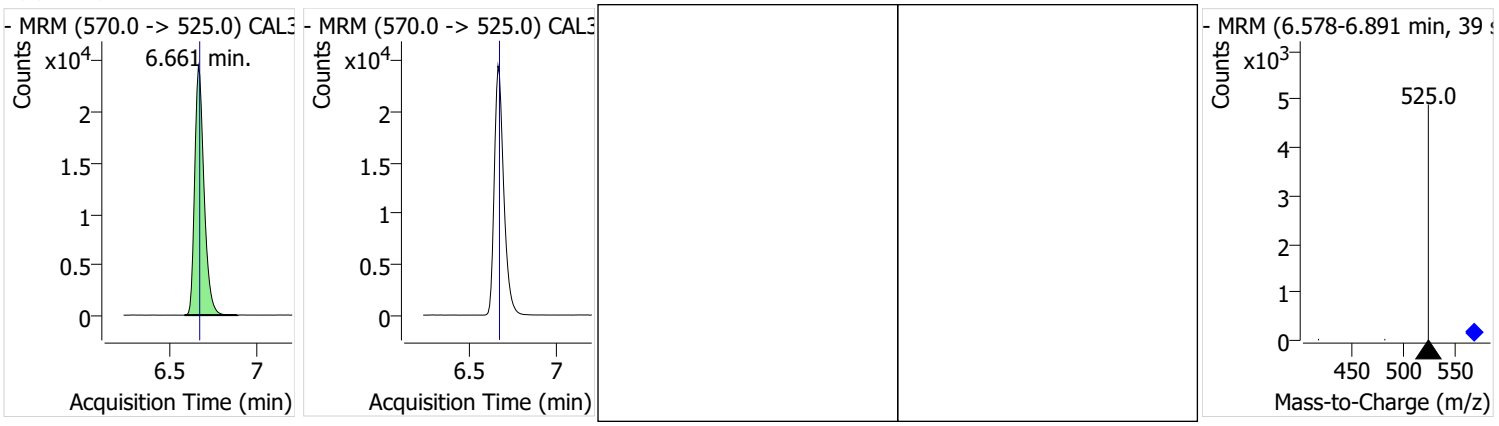

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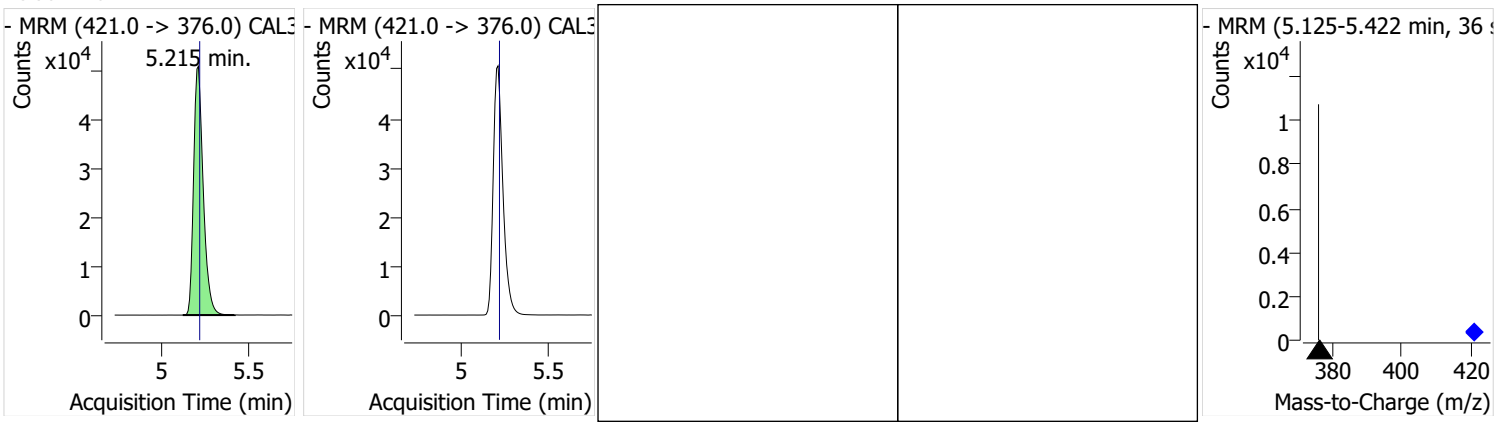

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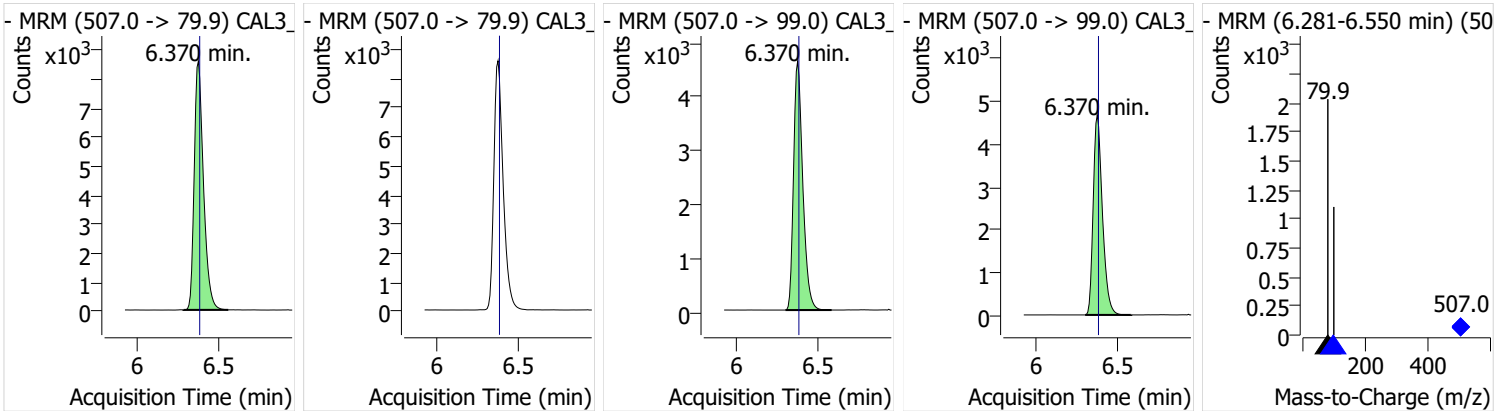

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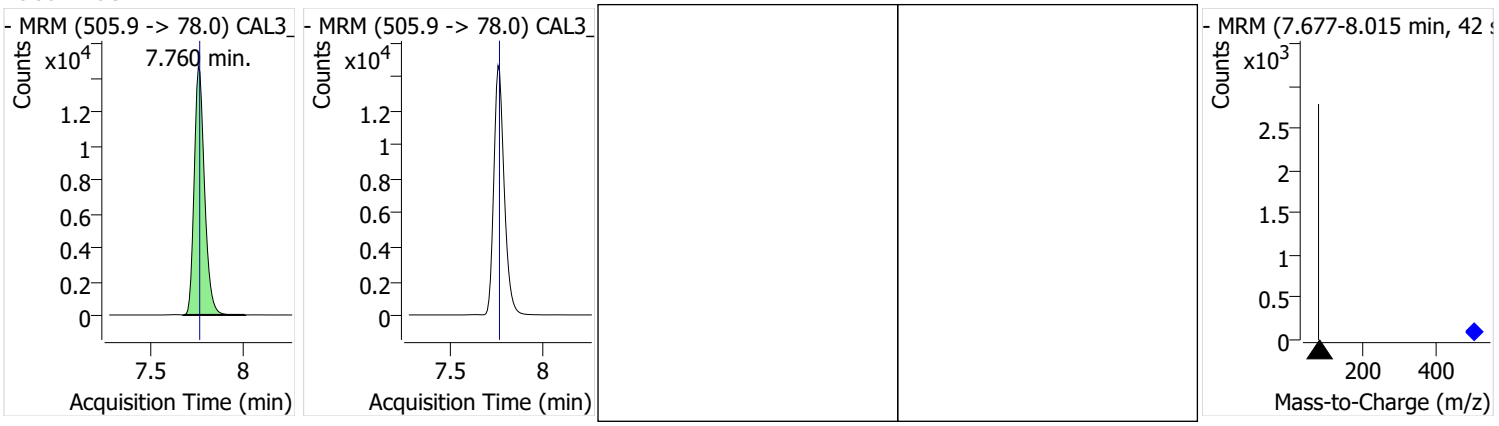

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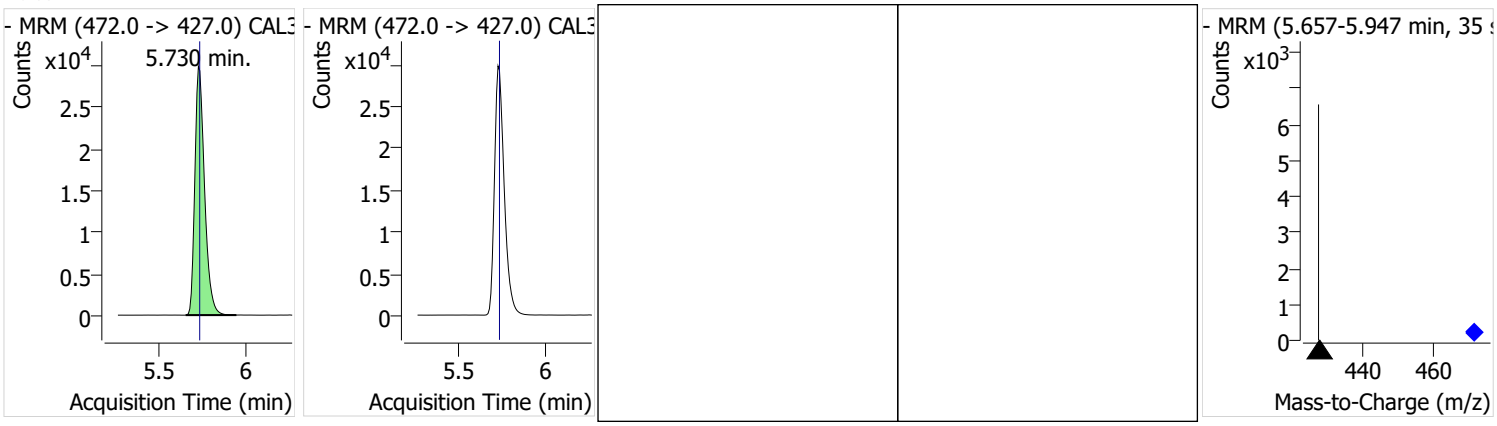

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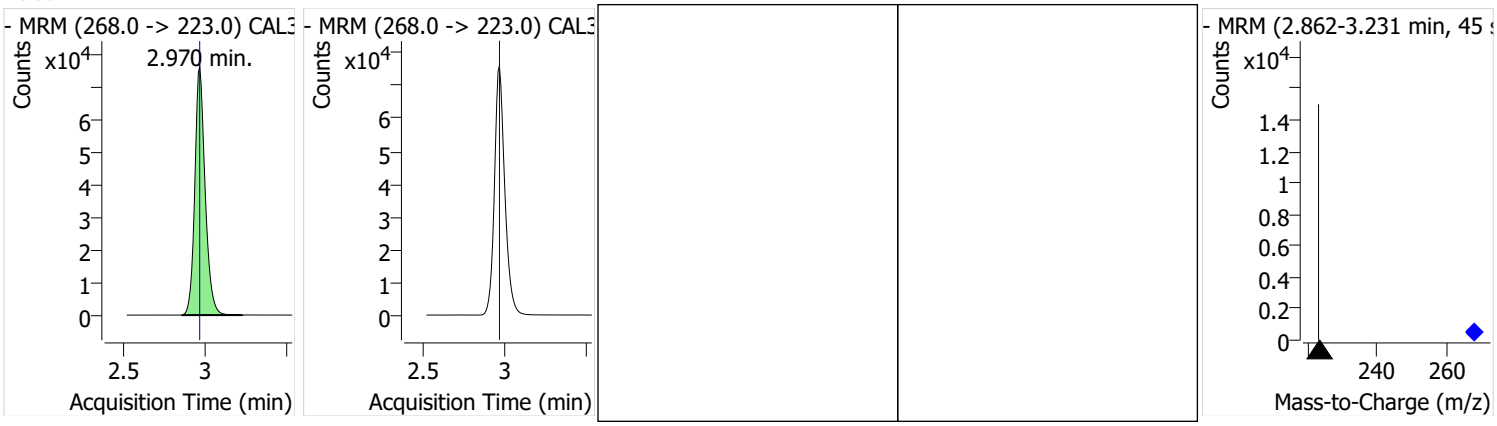

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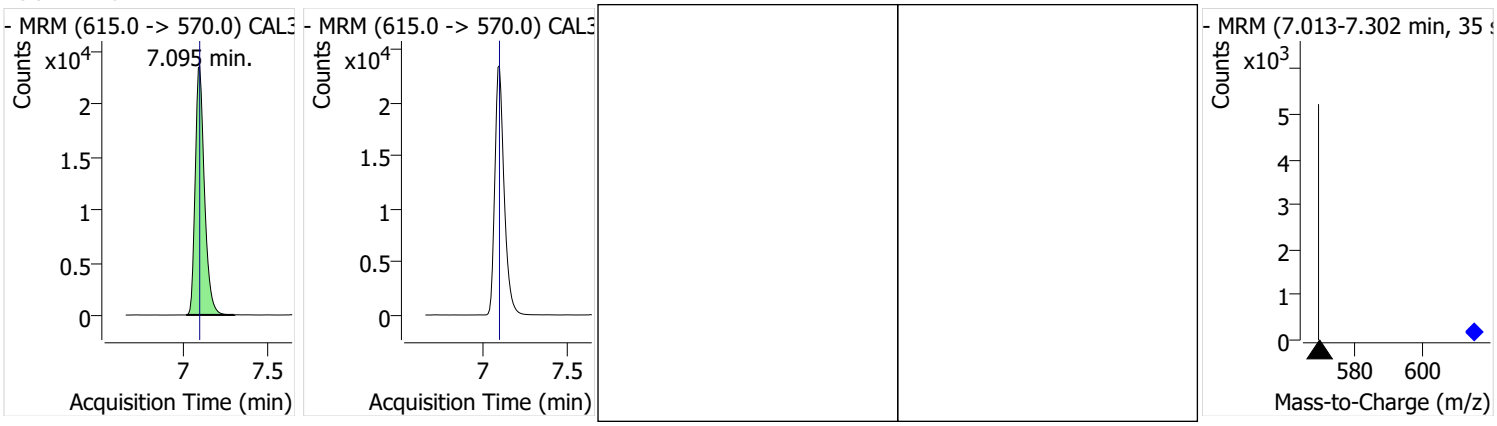

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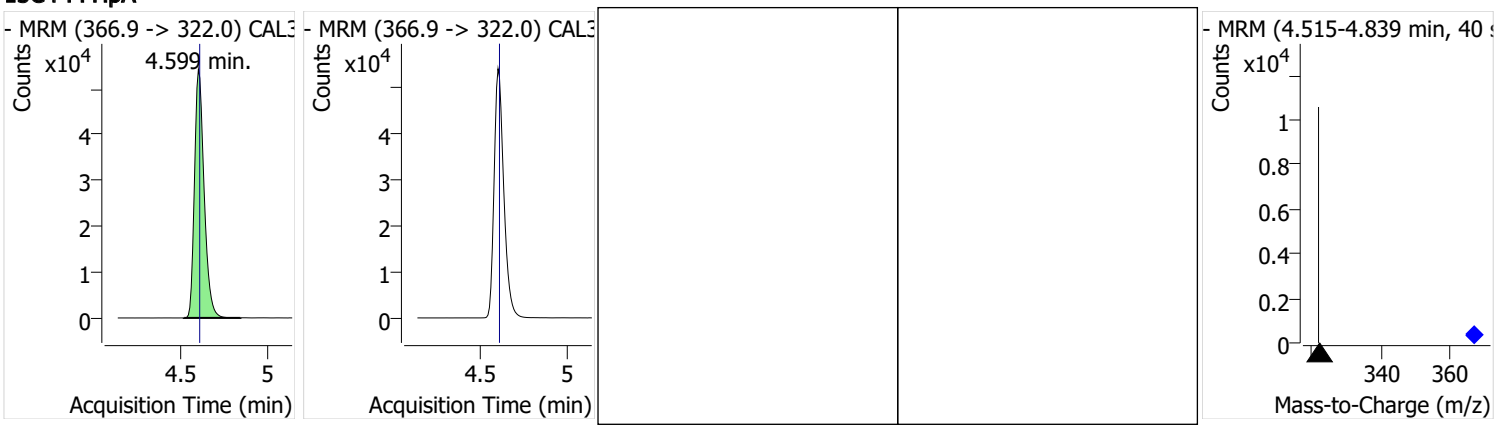

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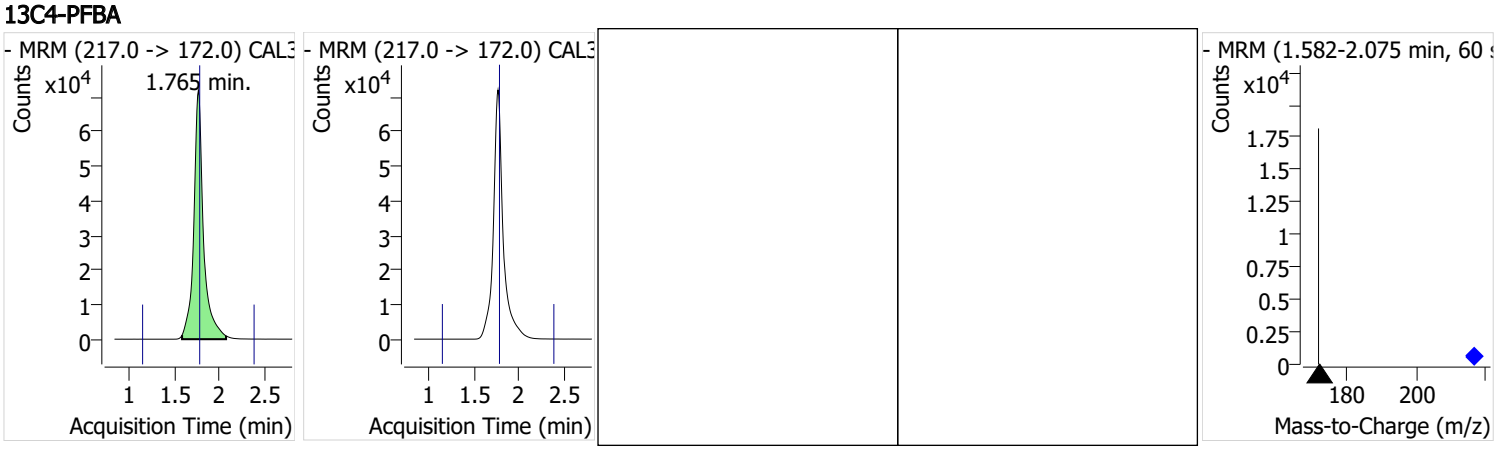

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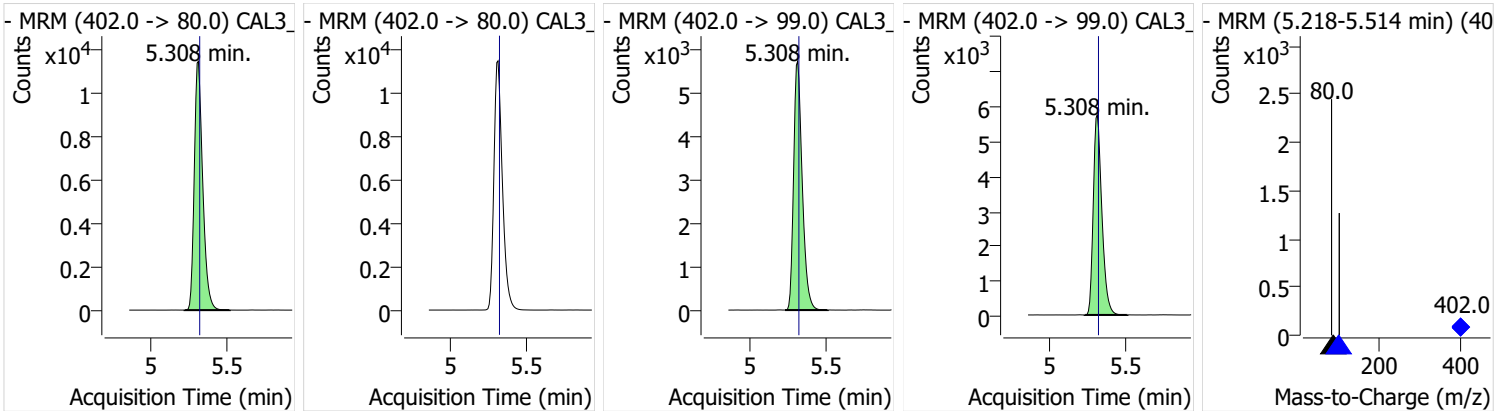

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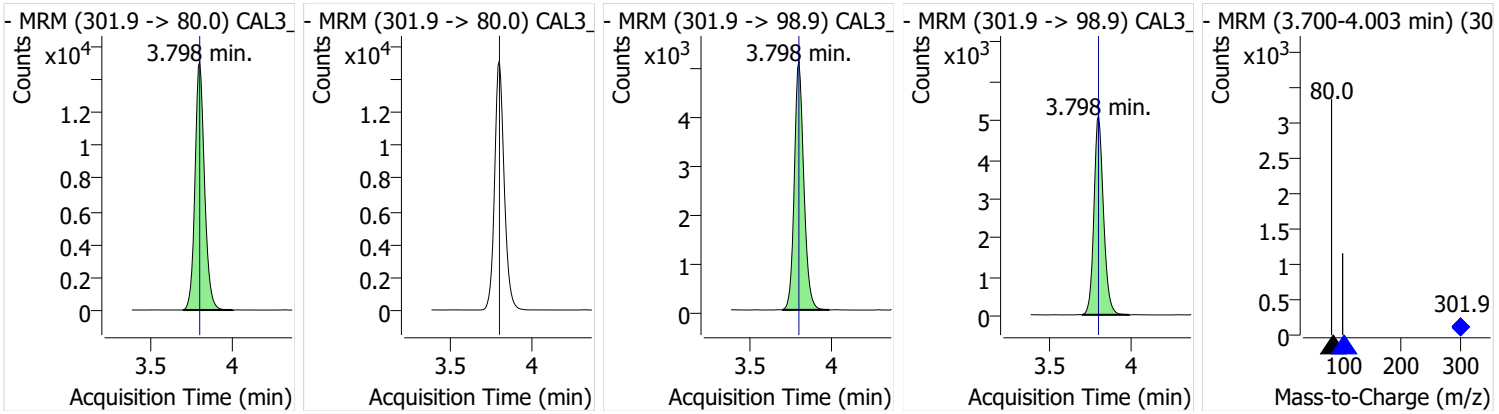

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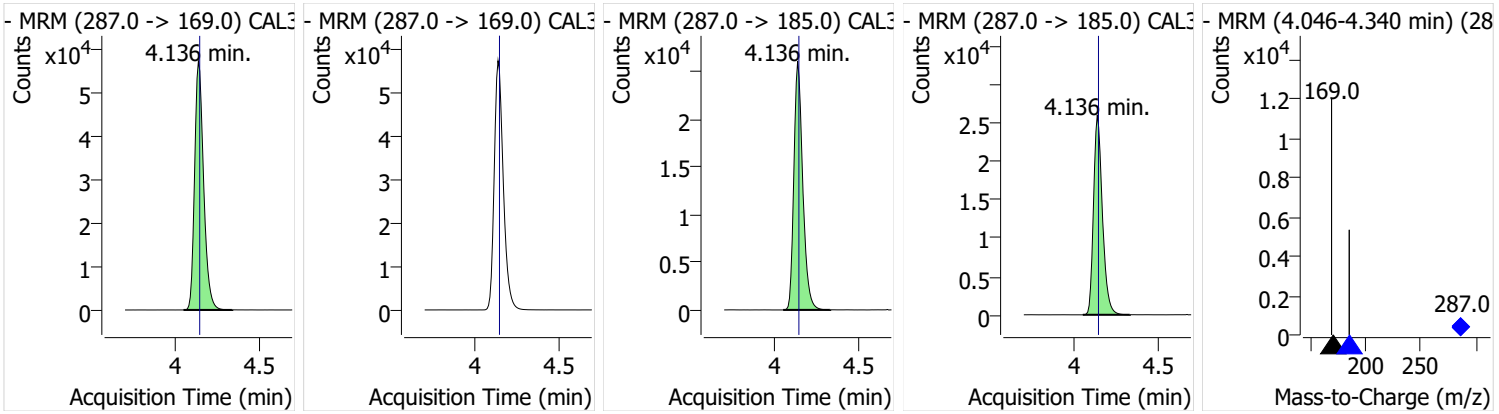

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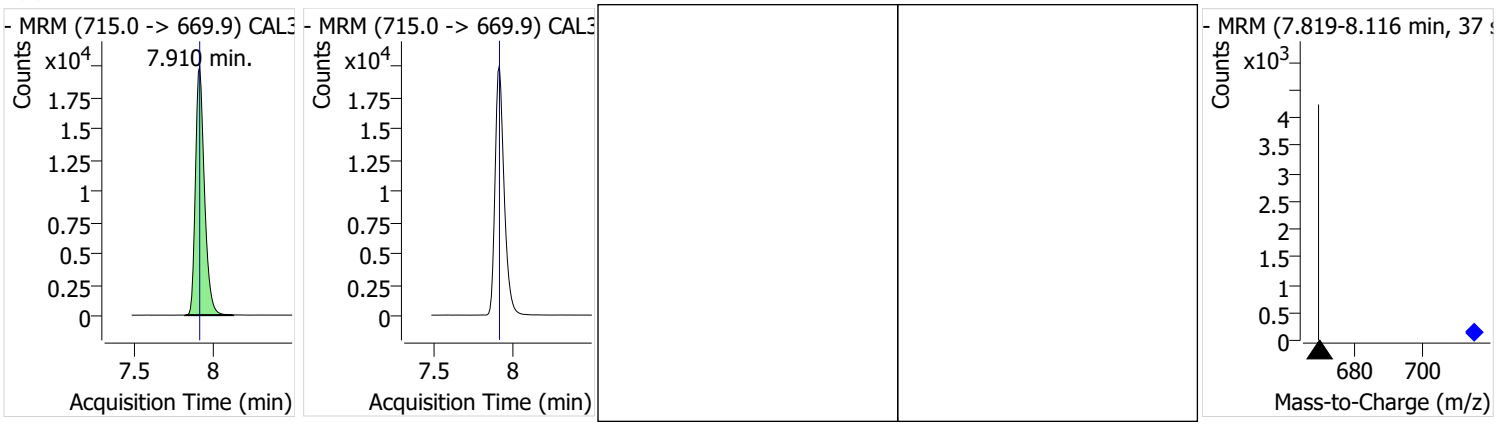

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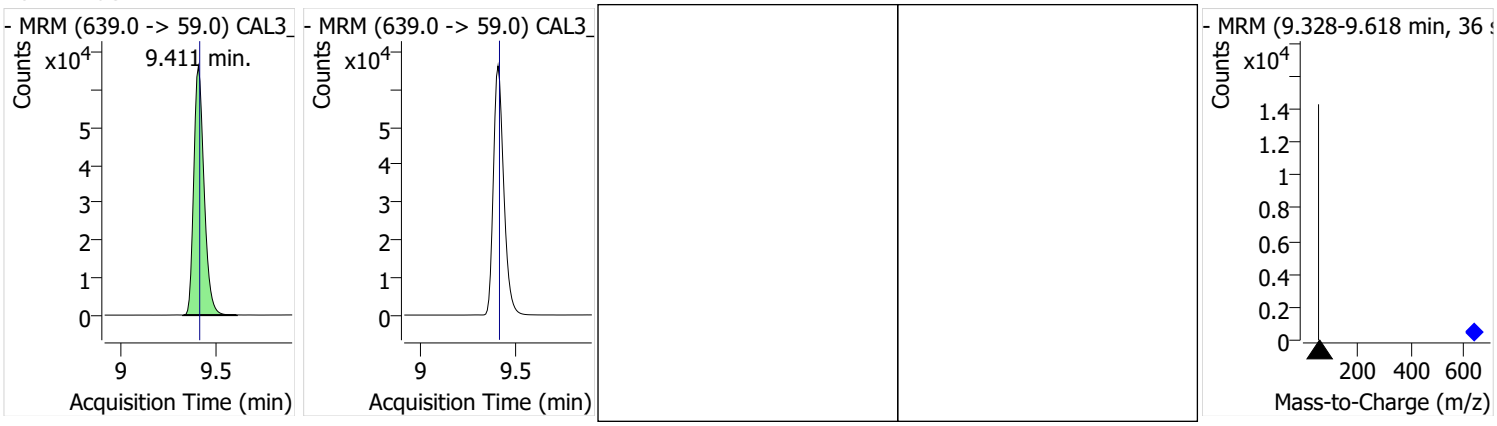

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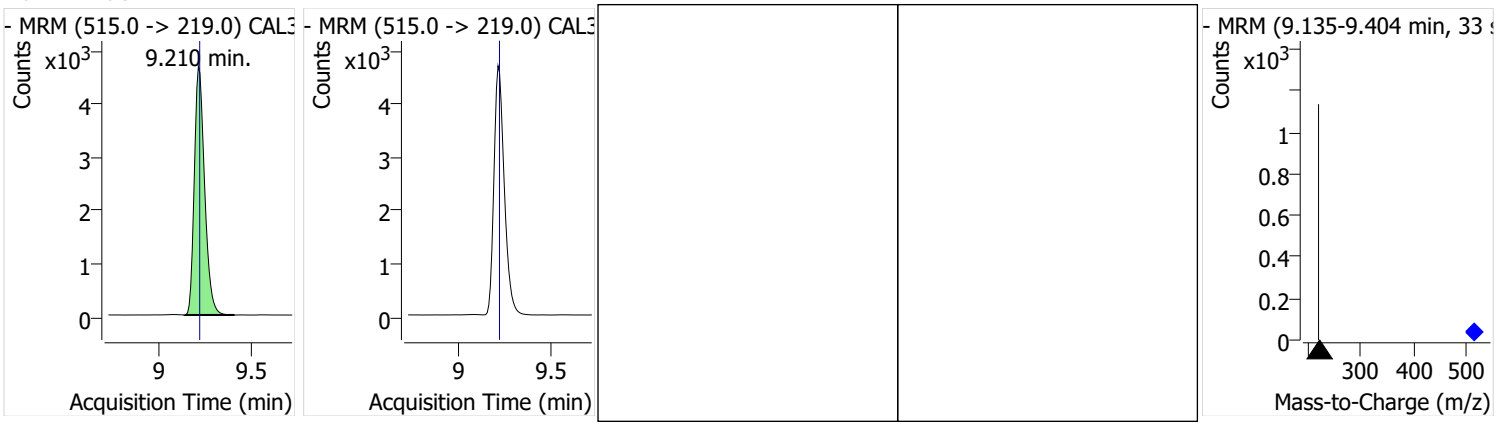

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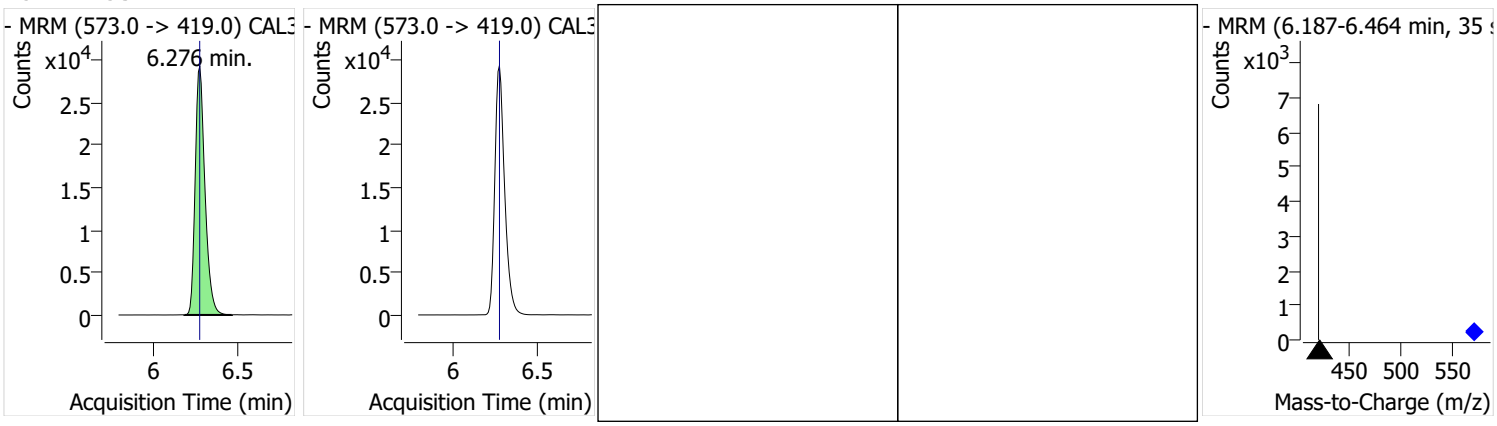

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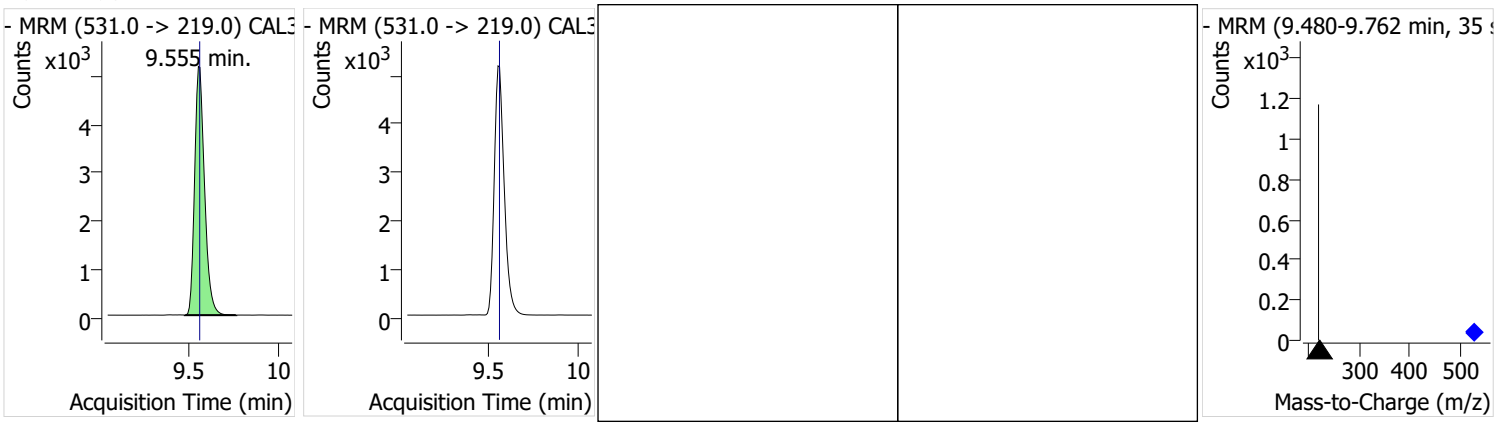

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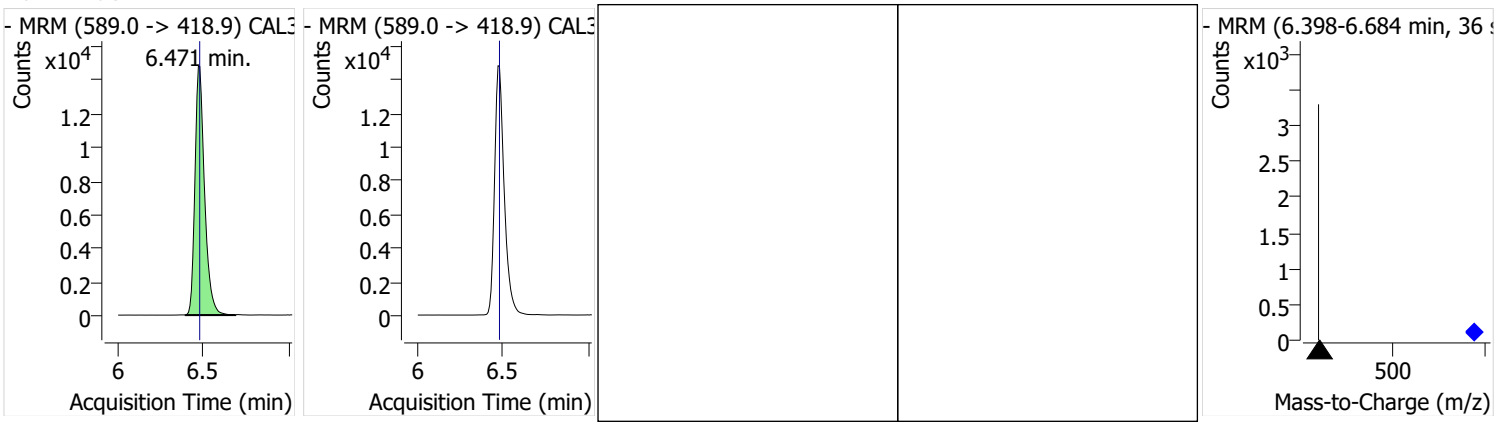
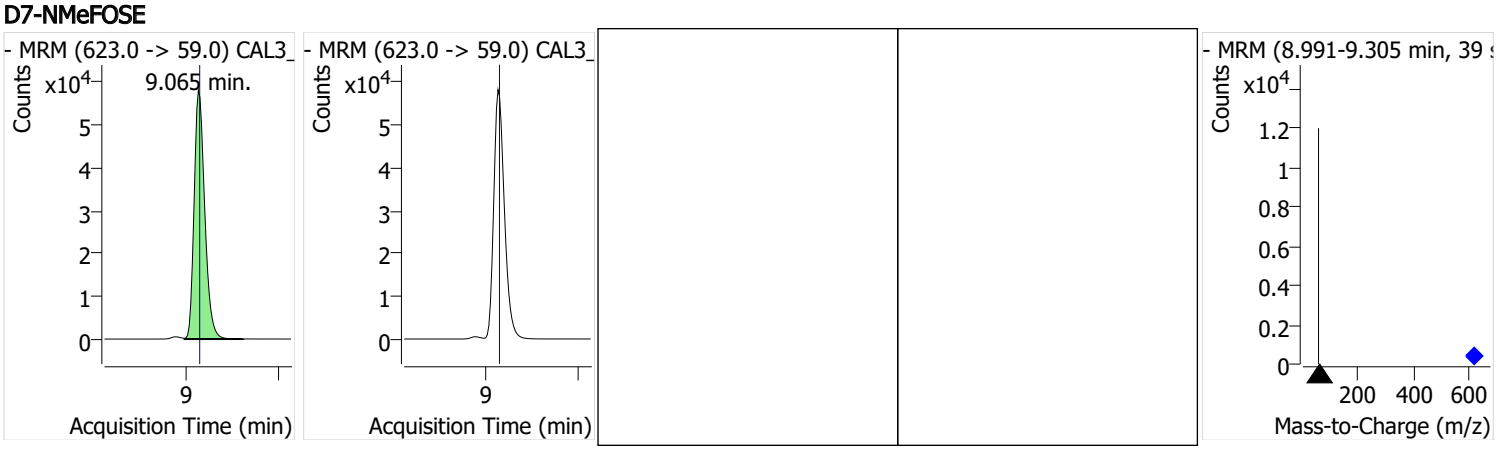
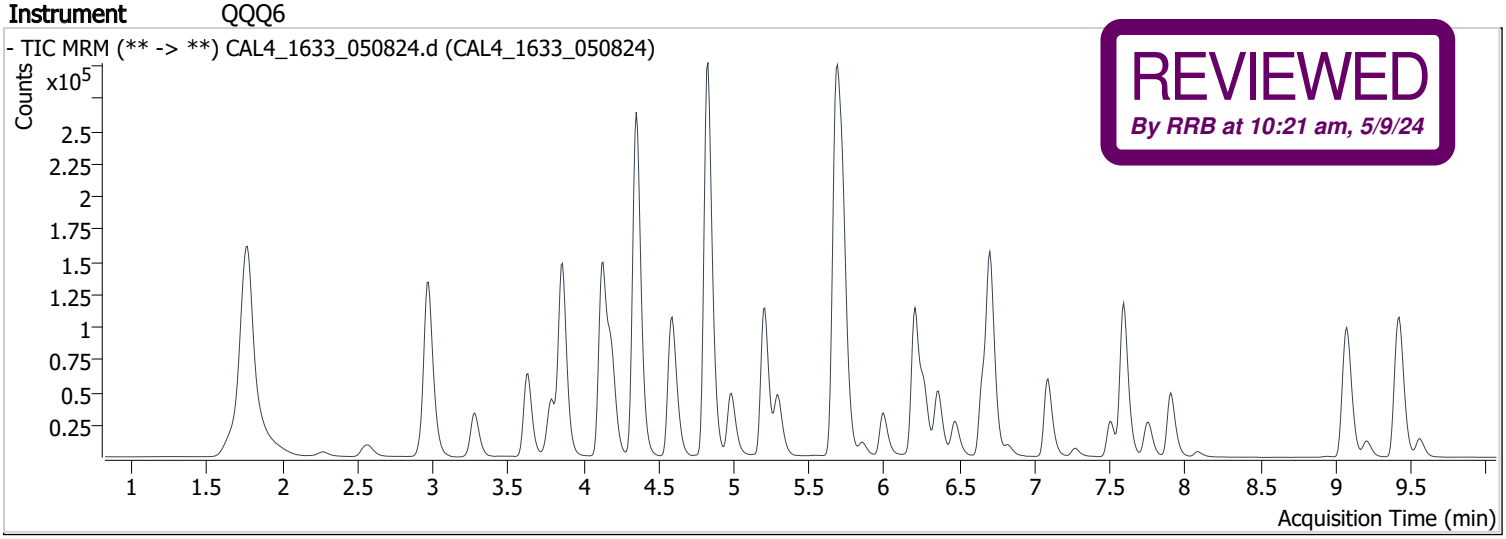


D7-NMeFOSE



Batch Path	R:\Data\MAY2024\050824_B\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/9/2024 9:16 AM	**Last Calib Update**	5/9/2024 9:16 AM
Acq. Time	5/8/2024 7:03 PM	**Data File**	CAL4_1633_050824.d
Sample Type	Cal	**Sample Name**	CAL4_1633_050824
Dilution	1	**Acq. Method**	1633_ACQUISITION_01.m
Sample Comment	E#24E0157	**Processing method**	1633_042924.m
Instrument	QQQ6		



REVIEWED
By RRB at 10:21 am, 5/9/24

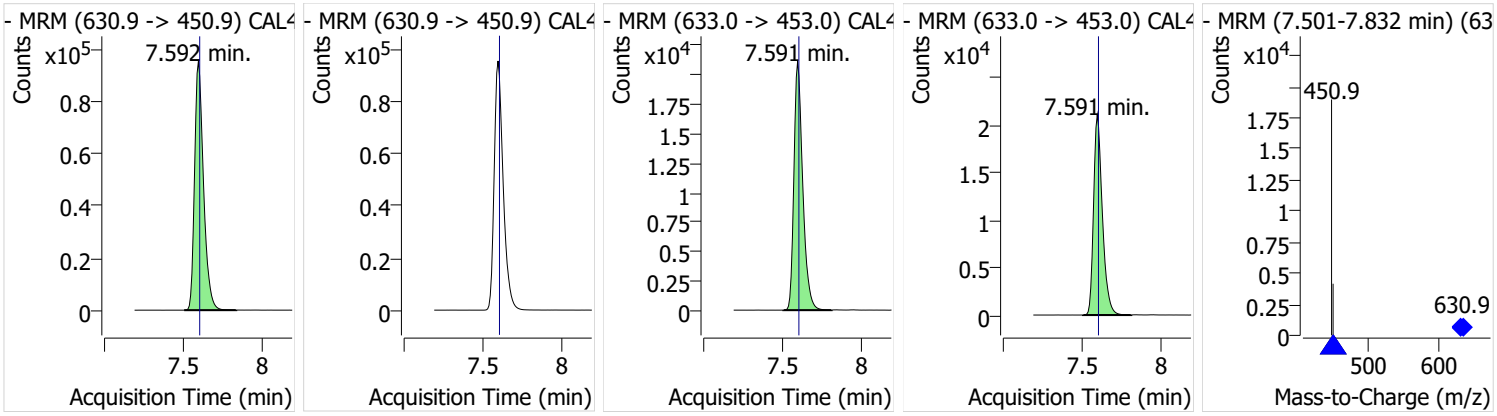
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
11Cl-PF3OUdS	7.592	375500	34179.60		13C3-HFPODA - ISTD	4.128	262532	4.8467	ng/ml			
633.0 -> 453.0			14851.26	21.7								
3:3FTCA	2.566	33457	22384.68		13C5-PFPeA - ISTD	2.961	408200	11.5316	ng/ml			
241.0 -> 117.0			2226.67	49.2								
4:2FTS	3.631	91267	29368.17		13C2-4:2FTS - ISTD	3.622	34140	4.5797	ng/ml			
327.0 -> 80.9			7013.39	37.7								
5:3FTCA	4.351	540071	81623.35		13C5-PFHxA - ISTD	3.861	225198	60.1858	ng/ml			
341.0 -> 217.0			35454.51	92.9								
6:2FTS	4.983	64866	22956.35		13C2-6:2FTS - ISTD	4.982	22315	4.2910	ng/ml			
427.0 -> 80.9			13093.03	33.6								
7:3FTCA	5.683	616835	33759.17		13C5-PFHxA - ISTD	3.861	225198	58.3698	ng/ml			
441.0 -> 317.0			12939.06	89.3								
8:2FTS	5.992	41244	97351.89		13C2-8:2FTS - ISTD	5.991	16816	4.8045	ng/ml			
527.0 -> 81.0			4913.81	43.6								
9Cl-PF3ONS	6.704	418821	8441.95		13C3-HFPODA - ISTD	4.128	262532	4.8341	ng/ml			
533.0 -> 353.0			6623.35	30.9								
ADONA	4.830	859076	38008.60		13C3-HFPODA - ISTD	4.128	262532	4.4041	ng/ml			
377.0 -> 85.1			25574.68	36.2								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA	4.129	120147	19692.92		13C3-HFPODA - ISTD	4.128	262532	4.9731	ng/ml			
285.0 -> 184.9			3768.01	54.0								
NEtFOSA	9.565	14572	7762.01		D5-NEtFOSA - ISTD	9.555	23780	1.1795	ng/ml			
526.0 -> 219.0			18434.55	96.9								
NEtFOSAA	6.472	21057	1814.76		D5-NEtFOSAA - ISTD	6.463	73178	1.1887	ng/ml	✔	3	AMS 05/09/24
584.0 -> 526.0			1201.67	66.8								
NEtFOSE	9.428	168530	66097.27		D9-NEtFOSE - ISTD	9.403	306761	12.2968	ng/ml			
NFDHA	3.775	18982	4841.46		13C5-PFHxA - ISTD	3.861	225198	2.4934	ng/ml			
295.0 -> 85.0			2480.70	35.9								
NMeFOSA	9.211	13178	14517.71		D3-NMeFOSA - ISTD	9.210	21752	1.2508	ng/ml			
512.0 -> 219.0			5397.97	87.4								
NMeFOSAA	6.269	13408	2063.06		D3-NMeFOSAA - ISTD	6.268	141492	1.1175	ng/ml	✔	3	AMS 05/09/24
570.0 -> 418.9			1227.17	72.5								
NMeFOSE	9.082	149235	104084.74		D7-NMeFOSE - ISTD	9.065	282220	12.2467	ng/ml			
PFBA	1.762	292165	4374.58		13C4-PFBA - ISTD	1.765	668414	4.7353	ng/ml			
PFBS	3.791	40292	6922.42		13C3-PFBS - ISTD	3.790	75517	1.0689	ng/ml			
298.9 -> 98.8			3340.01	38.6								
PFDA	6.206	132538	3847.31		13C6-PFDA - ISTD	6.205	136282	1.1801	ng/ml			
513.0 -> 219.0			49703.90	16.5								
PFDoA	7.087	108852	2737.74		13C2-PFDoA - ISTD	7.087	112646	1.1658	ng/ml			
613.0 -> 319.0			2866.13	13.0								
PFDoS	8.086	9374	10368.33		13C8-PFOS - ISTD	6.362	40909	1.1499	ng/ml			
698.9 -> 99.0			4755.87	62.7								
PFDS	7.271	15165	4859.22		13C8-PFOS - ISTD	6.362	40909	1.1378	ng/ml			
599.0 -> 98.8			8341.14	59.5								
PFEESA	4.189	252280	23304.52		13C5-PFHxA - ISTD	3.861	225198	2.2259	ng/ml			
315.0 -> 83.0			6932.28	7.3								
PFHpA	4.591	124759	3367.80		13C4-PFHpA - ISTD	4.582	253399	1.1812	ng/ml			
362.9 -> 169.0			3086.22	17.7								
PFHpS	5.857	24676	3855.82		13C8-PFOS - ISTD	6.362	40909	1.1443	ng/ml			
449.0 -> 98.8			6843.41	49.4								

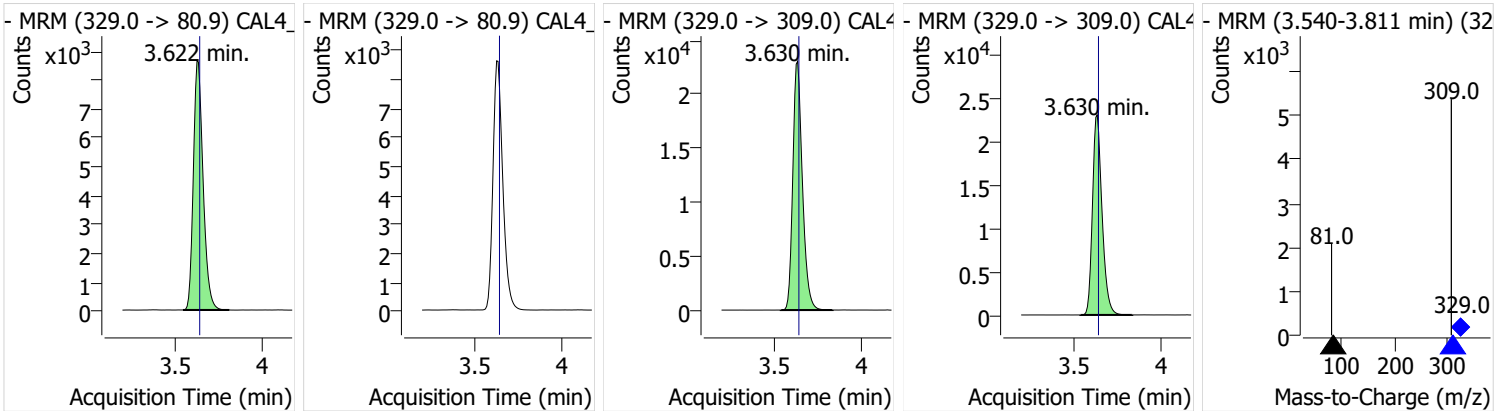
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFHxA	3.863	108457	3651.38		13C5-PFHxA - ISTD	3.861	225198	1.1846	ng/ml			
313.0 -> 118.9			942.01	3.4								
PFHxS	5.301	25450	3595.39		13C3-PFHxS - ISTD	5.300	54589	1.0327	ng/ml	✔	3	AMS 05/09/24
398.9 -> 99.0			1698.17	44.9								
PFMBA	3.280	140382	34527.53		13C5-PFPeA - ISTD	2.961	408200	2.4978	ng/ml			
PFMPA	2.267	21502	8183.61		13C5-PFPeA - ISTD	2.961	408200	2.4068	ng/ml			
PFNA	5.730	132207	4116.19		13C9-PFNA - ISTD	5.730	139489	1.1787	ng/ml			
463.0 -> 219.0			7453.20	20.0								
PFNS	6.826	18481	3260.01		13C8-PFOS - ISTD	6.362	40909	1.1097	ng/ml			
549.0 -> 98.8			3275.19	54.8								
PFOA	5.207	139517	1770.84		13C8-PFOA - ISTD	5.206	235365	1.1807	ng/ml			
413.0 -> 169.0			2402.28	24.5								
PFOS	6.363	21632	1656.17		13C8-PFOS - ISTD	6.362	40909	1.0174	ng/ml	✔	3	AMS 05/09/24
499.0 -> 99.0			1886.62	50.9								
PFOSA	7.753	36357	47586.84		13C8-PFOSA - ISTD	7.760	70253	1.1721	ng/ml			
497.9 -> 478.0			1161.00	2.9								
PFPeA	2.971	196385	5930.04		13C5-PFPeA - ISTD	2.961	408200	2.3821	ng/ml			
263.0 -> 69.0			246.32	0.3								
PFPeS	4.625	31468	5178.45		13C3-PFHxS - ISTD	5.300	54589	1.1124	ng/ml			
349.0 -> 98.9			2839.88	47.8								
PFTeDA	7.902	90062	5020.85		13C2-PFTeDA - ISTD	7.902	93731	1.1942	ng/ml			
713.0 -> 168.9			2959.59	8.0								
PFTrDA	7.499	95948	2788.15		13C2-PFDoA - ISTD	7.087	112646	1.2062	ng/ml			
663.0 -> 168.9			5290.60	13.1								
PFUnA	6.654	101889	6944.31		13C7-PFUnA - ISTD	6.653	111327	1.1388	ng/ml			
563.0 -> 269.1			11552.09	18.4								
TDCA	6.225	4624	479.46					-	ng/ml			
499.0 -> 99.0			202.04	28.5								
13C2-8:2FTS	5.991	16816	5255.42		18O2-PFHxS	5.299	52083	4.9119	ng/ml			
529.0 -> 509.0			45150.06	297.0								
13C2-4:2FTS	3.622	34140	7059.15		18O2-PFHxS	5.299	52083	5.4774	ng/ml			
329.0 -> 309.0			24957.44	262.0								
13C2-6:2FTS	4.982	22315	5111.63		18O2-PFHxS	5.299	52083	5.2985	ng/ml			

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
429.0 -> 409.0			23527.26	343.0								
13C5-PFHxA	3.861	225198	61597.83		13C2-PFHxA	3.861	217106	2.5172	ng/ml			
318.0 -> 120.0			765.63	2.0								
13C6-PFDA	6.205	136282	10626.20		13C2-PFDA	6.205	134833	1.2810	ng/ml			
13C7-PFUnA	6.653	111327	12556.00		13C2-PFDA	6.205	134833	1.2926	ng/ml			
13C8-PFOA	5.206	235365	23247.85		13C4-PFOA	5.207	34355	2.4990	ng/ml			
13C8-PFOS	6.362	40909	8531.08		13C4-PFOS	6.363	45817	2.4836	ng/ml			
507.0 -> 99.0			4577.37	50.6								
13C8-PFOSA	7.760	70253	393309.99		13C4-PFOS	6.363	45817	2.4250	ng/ml			
13C9-PFNA	5.730	139489	8158.79		13C5-PFNA	5.730	166199	1.2307	ng/ml			
13C5-PFPeA	2.961	408200	12136.88		13C2-PFHxA	3.861	217106	5.0911	ng/ml			
13C2-PFDoA	7.087	112646	6187.79		13C2-PFDA	6.205	134833	1.2672	ng/ml			
13C4-PFHpA	4.582	253399	41165.12		13C2-PFHxA	3.861	217106	2.5321	ng/ml			
13C4-PFBA	1.765	668414	193671.08		13C3-PFBA	1.760	311064	9.8971	ng/ml			
13C3-PFHxS	5.300	54589	17022.23		18O2-PFHxS	5.299	52083	2.5665	ng/ml			
402.0 -> 99.0			8910.09	51.2								
13C3-PFBS	3.790	75517	8180.75		18O2-PFHxS	5.299	52083	2.6828	ng/ml			
301.9 -> 98.9			10353.00	36.4								
13C3-HFPODA	4.128	262532	22043.72		13C2-PFHxA	3.861	217106	10.4910	ng/ml			
287.0 -> 185.0			11640.70	45.4								
13C2-PFTeDA	7.902	93731	14650.59		13C2-PFDA	6.205	134833	1.2246	ng/ml			
D9-NEtFOSE	9.403	306761	44174.57		13C4-PFOS	6.363	45817	25.4634	ng/ml			
D3-NMeFOSA	9.210	21752	10766.99		13C4-PFOS	6.363	45817	2.3409	ng/ml			
D3-NMeFOSAA	6.268	141492	28892.13		13C4-PFOS	6.363	45817	4.7671	ng/ml			
D5-NEtFOSA	9.555	23780	7735.00		13C4-PFOS	6.363	45817	2.4535	ng/ml			
D5-NEtFOSAA	6.463	73178	4053.19		13C4-PFOS	6.363	45817	4.8723	ng/ml			
D7-NMeFOSE	9.065	282220	117825.96		13C4-PFOS	6.363	45817	25.0670	ng/ml			

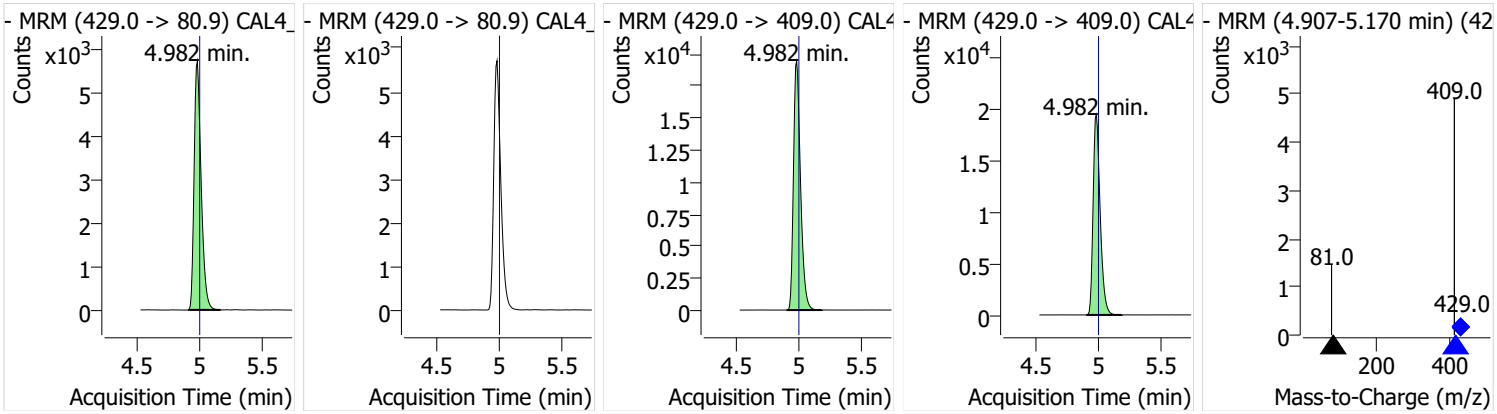
11Cl-PF3OUdS



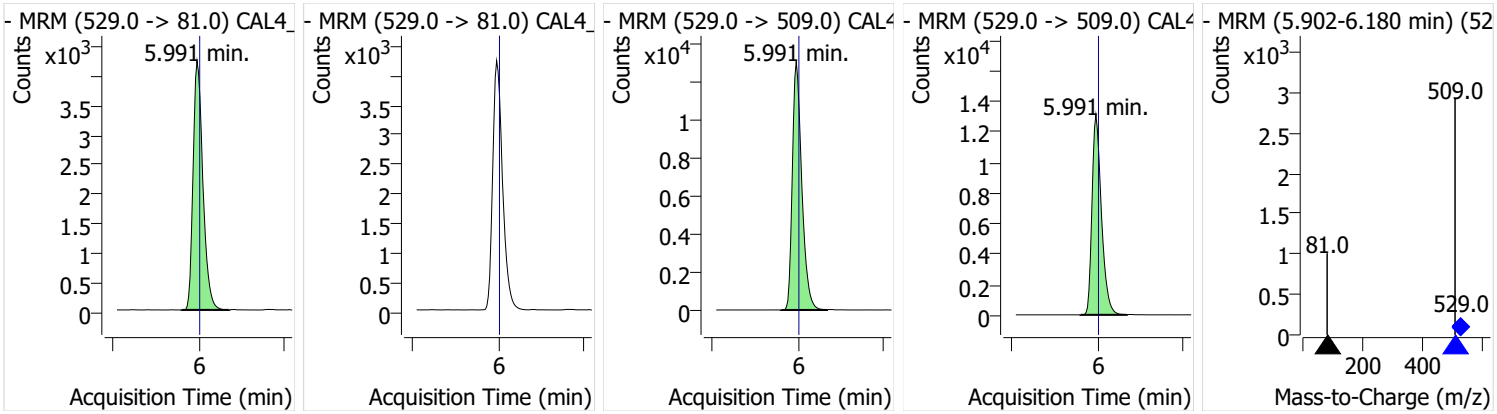
13C2-4:2FTS - ISTD



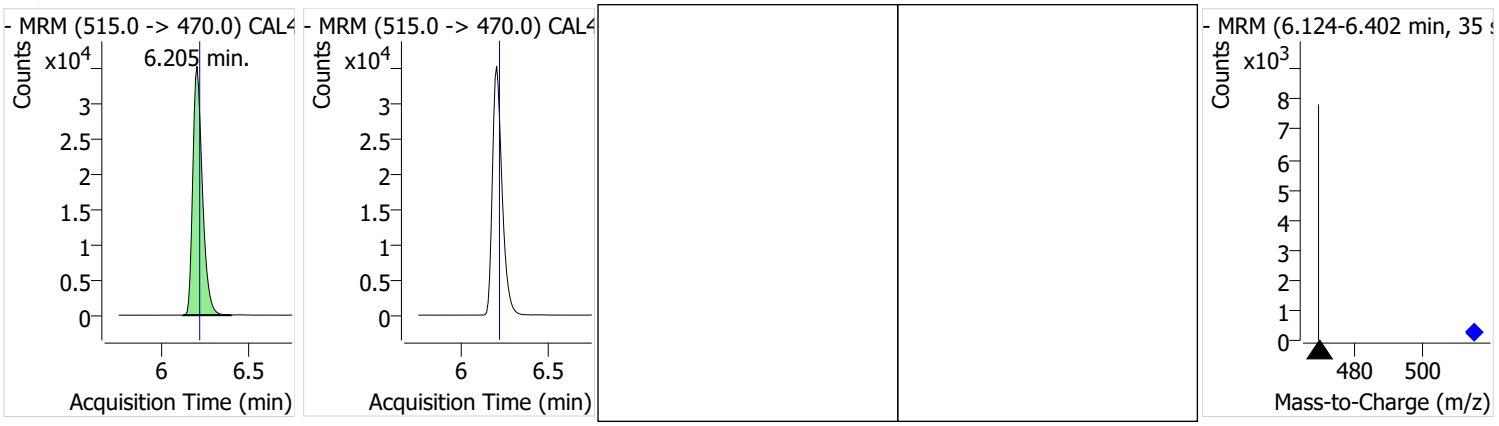
13C2-6:2FTS - ISTD



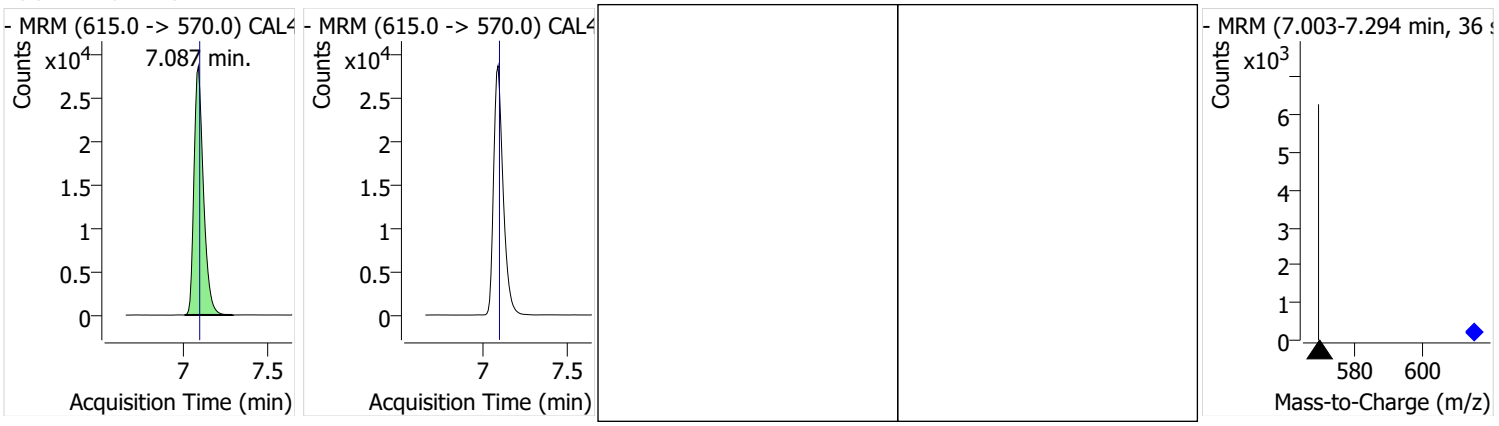
13C2-8:2FTS - ISTD



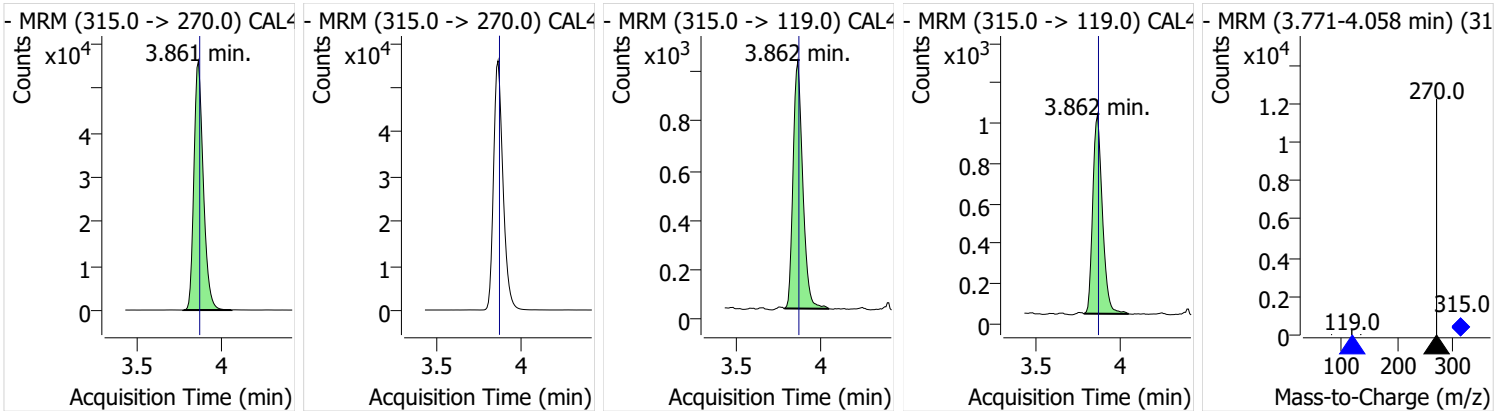
13C2-PFDA



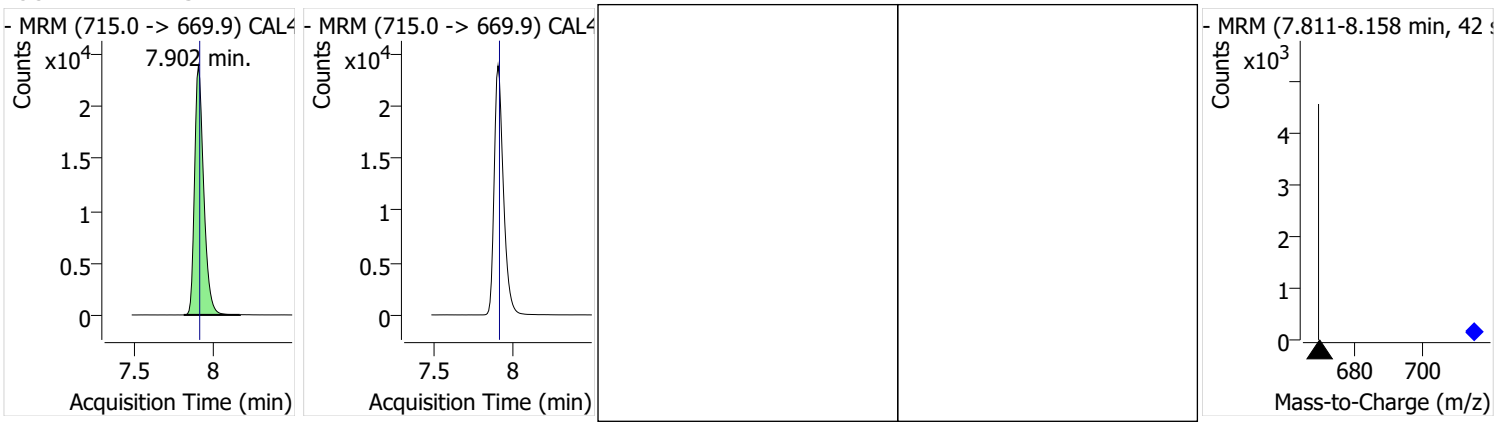
13C2-PFDoA - ISTD



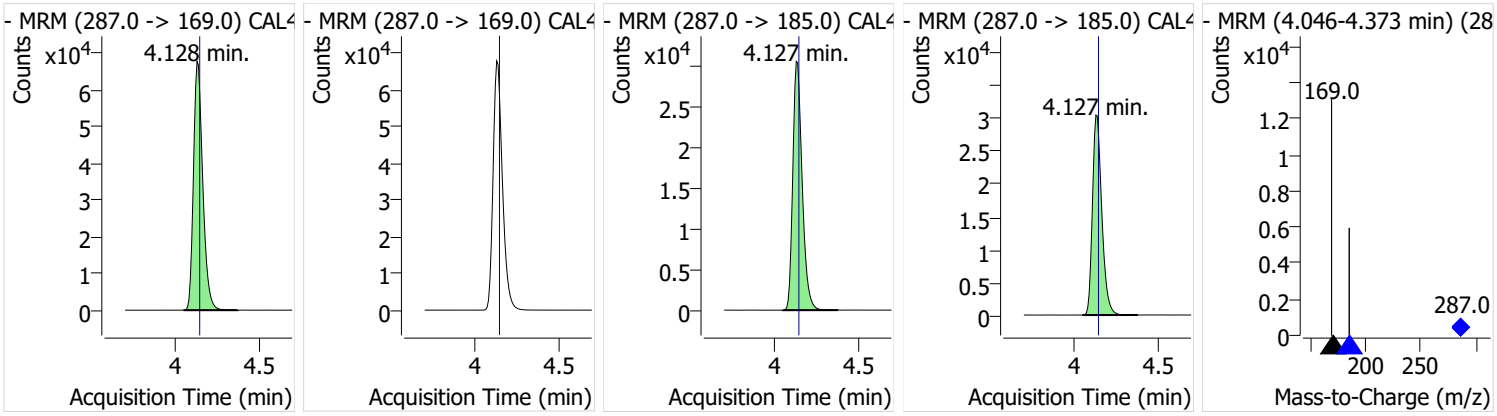
13C2-PFHxA



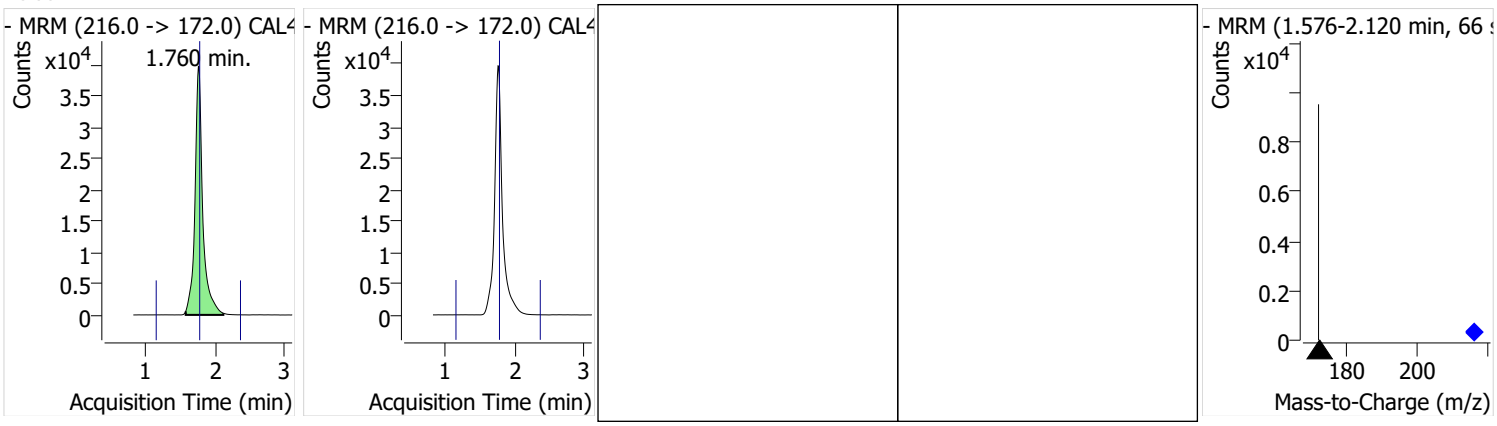
13C2-PFTeDA - ISTD



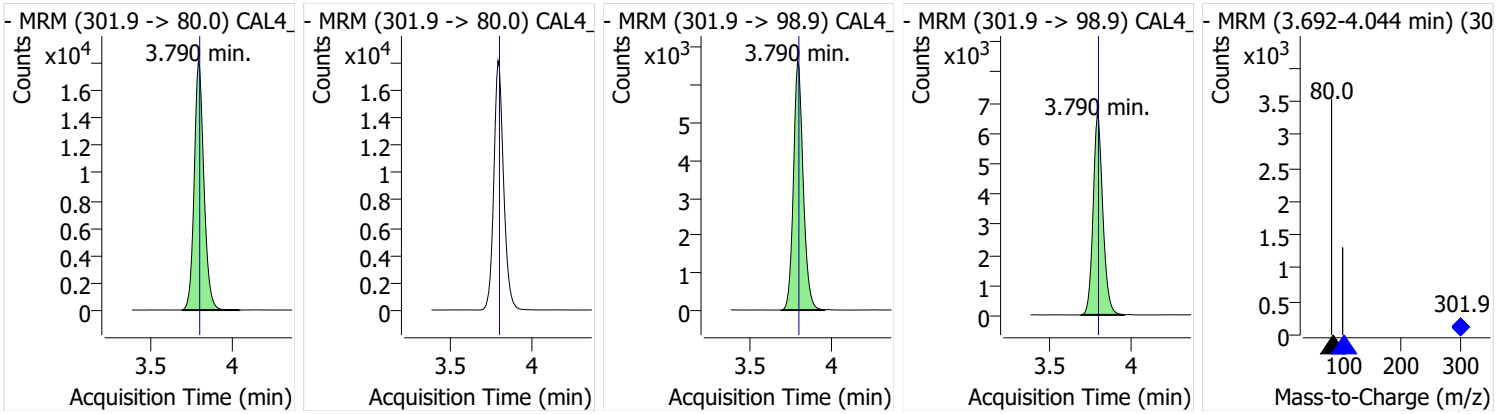
13C3-HFPODA - ISTD



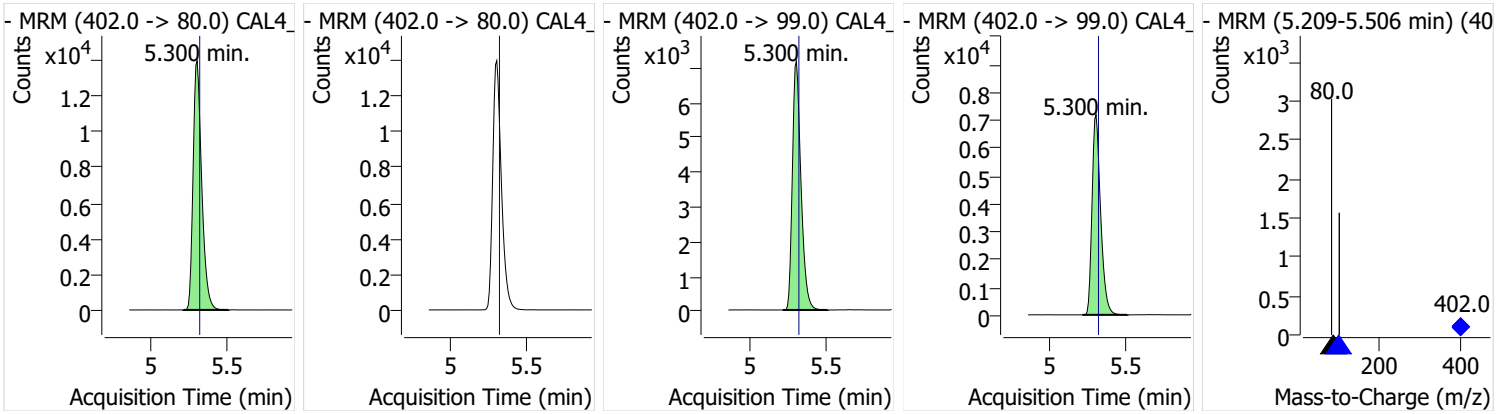
13C3-PFBA



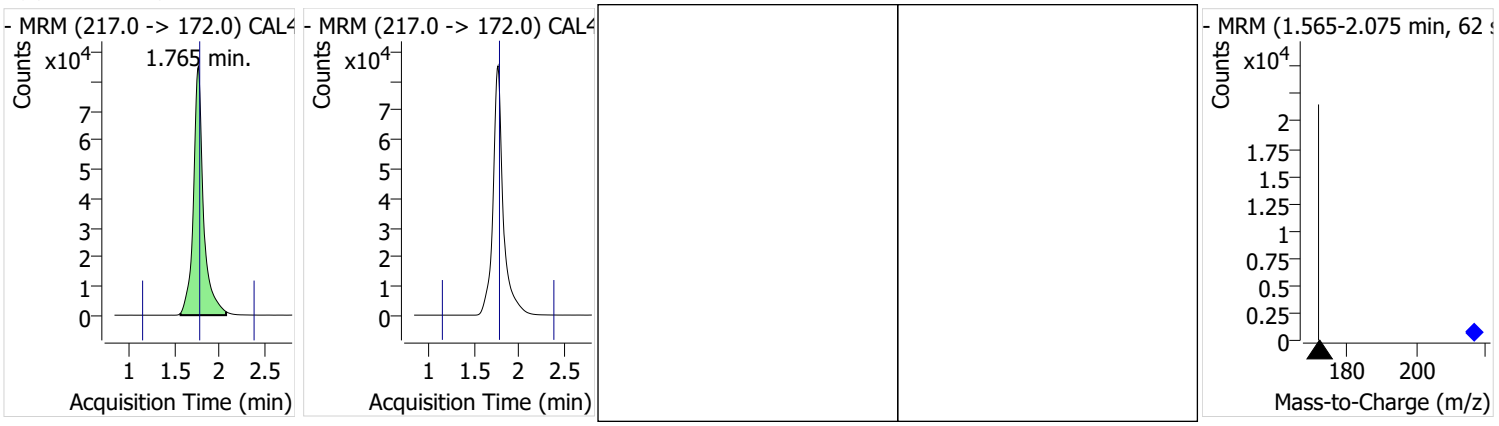
13C3-PFBS - ISTD



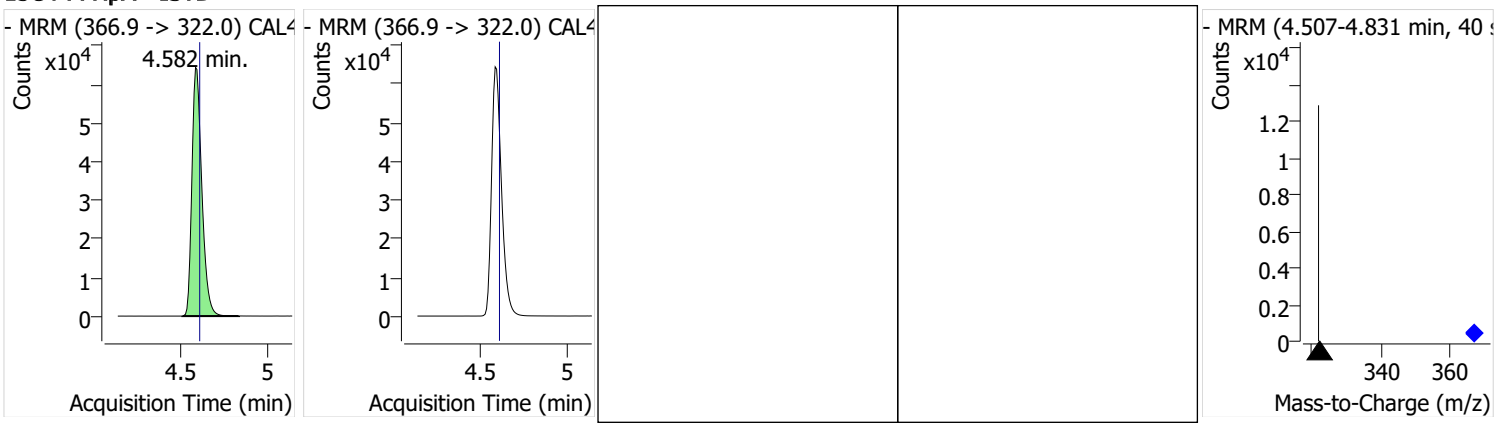
13C3-PFHxS - ISTD



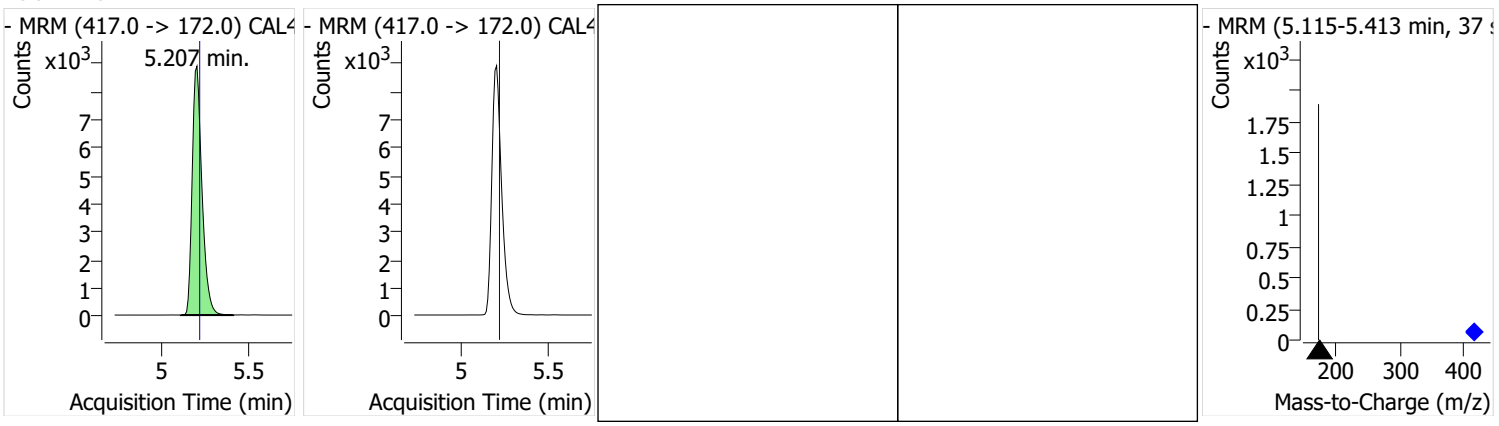
13C4-PFBA - ISTD



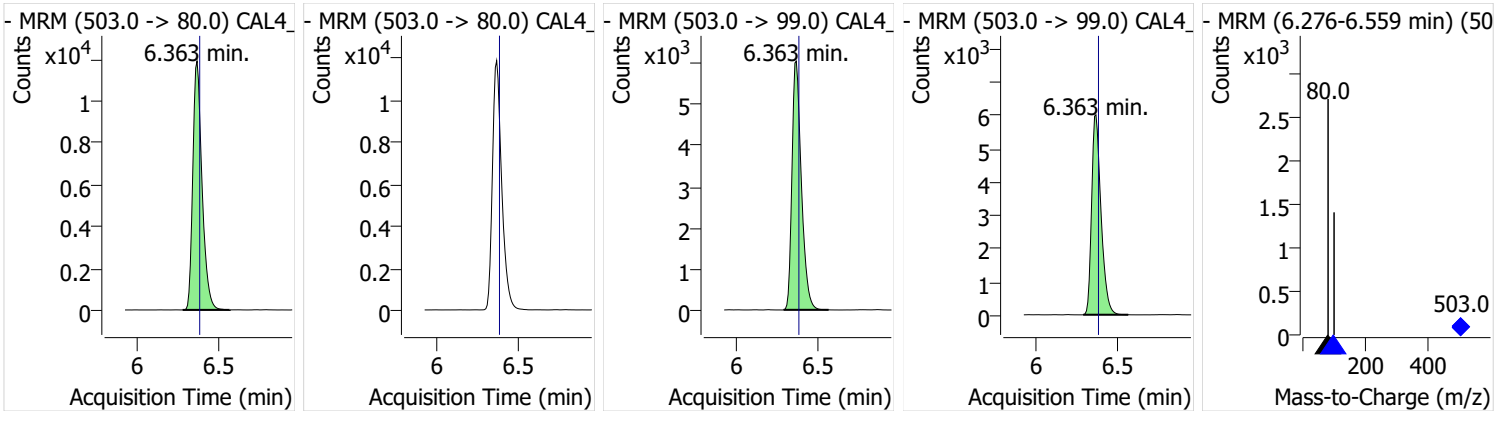
13C4-PFHpA - ISTD



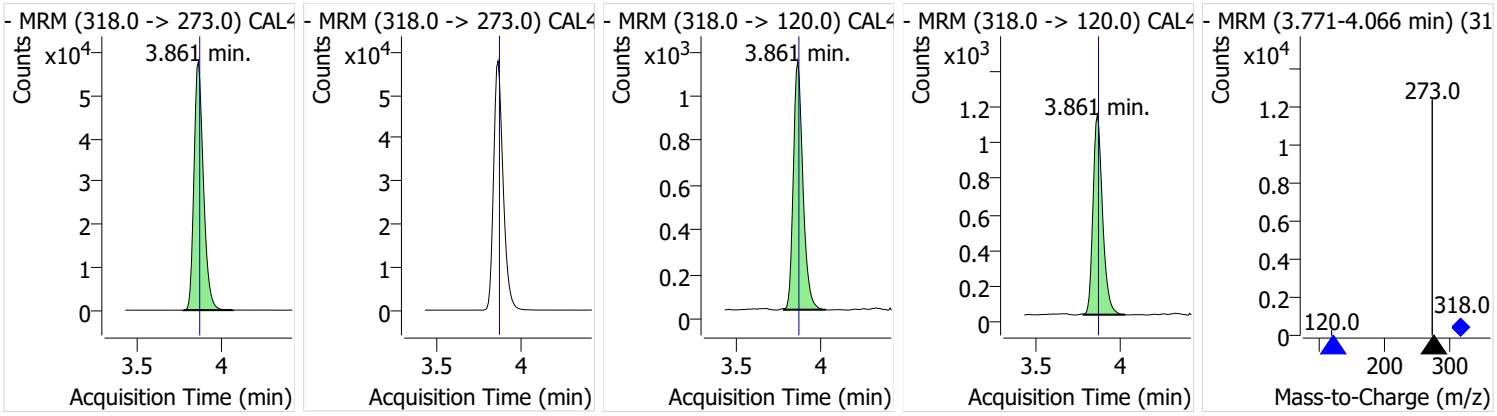
13C4-PFOA



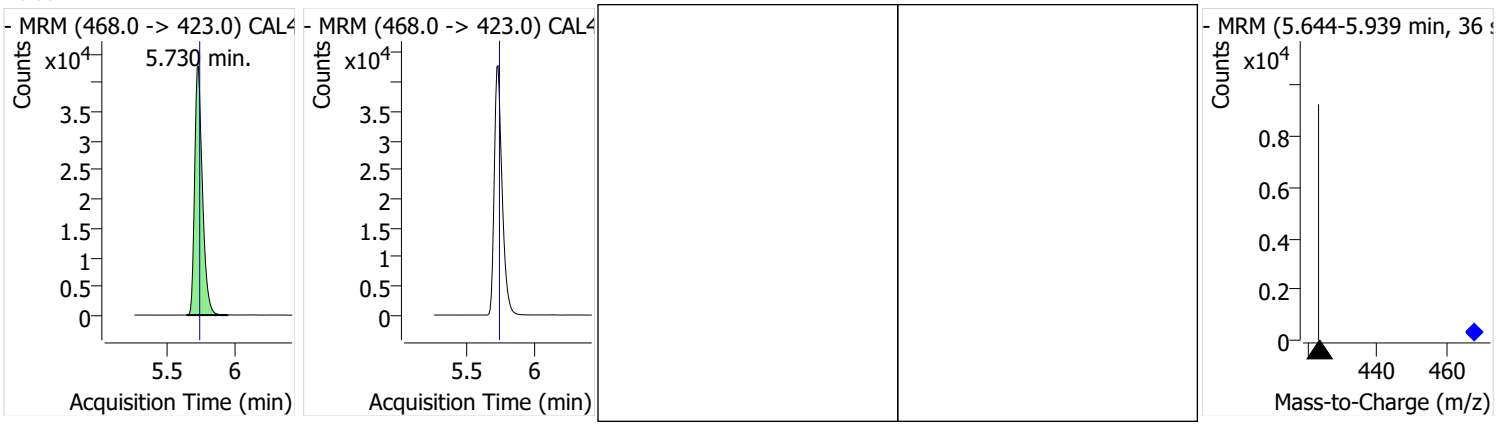
13C4-PFOS



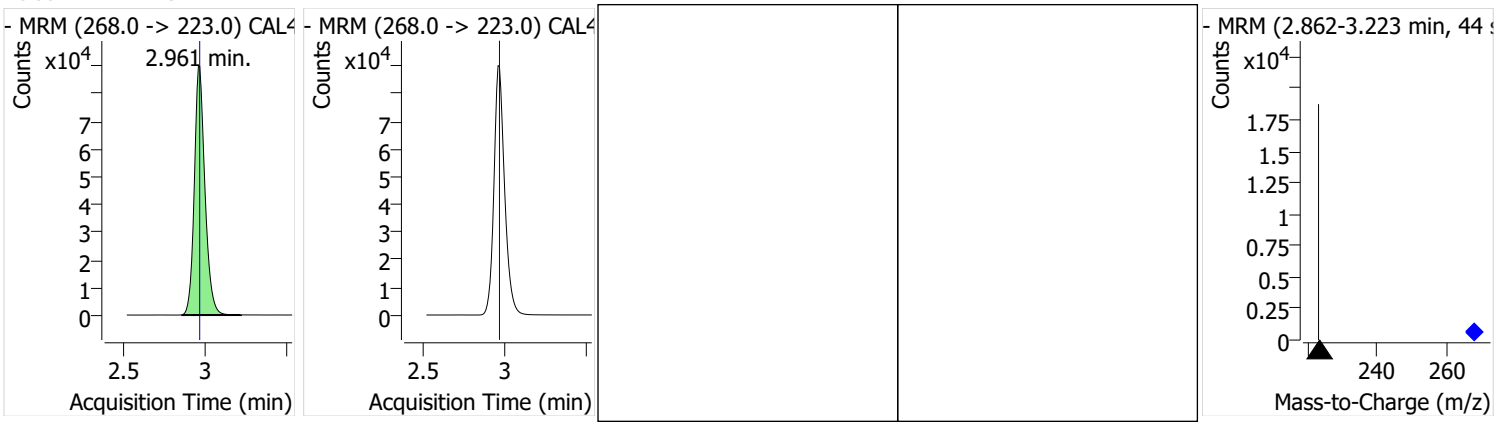
13C5-PFHxA - ISTD



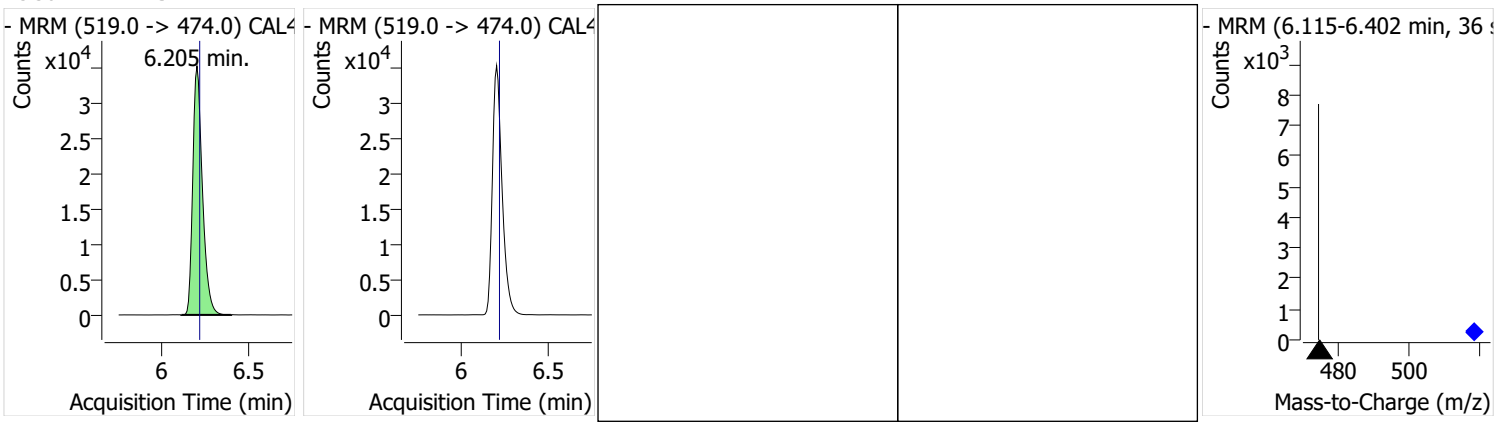
13C5-PFNA



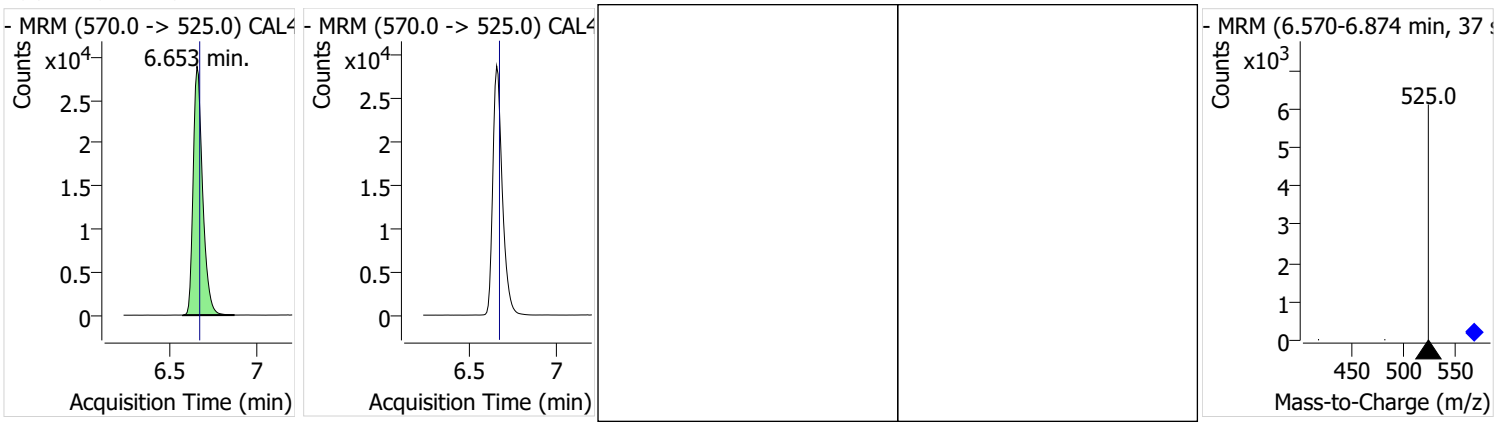
13C5-PFPeA - ISTD



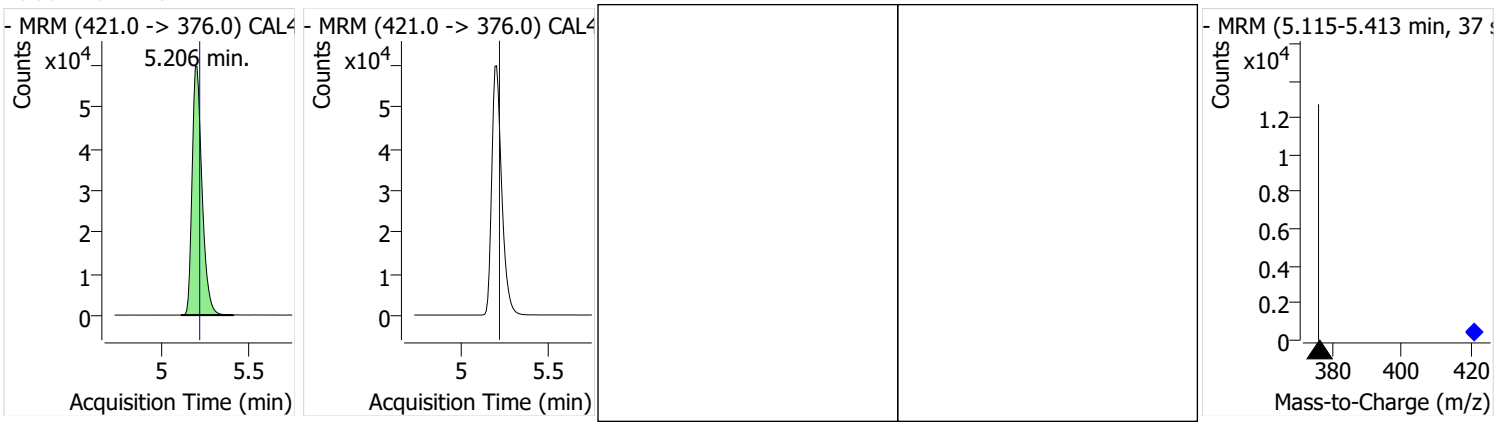
13C6-PFDA - ISTD



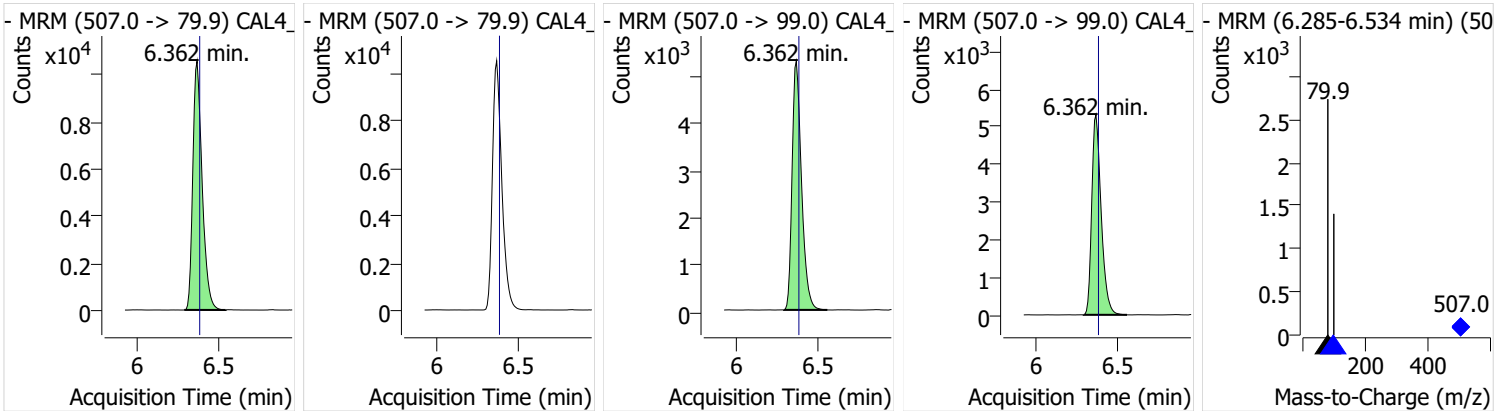
13C7-PFUnA - ISTD



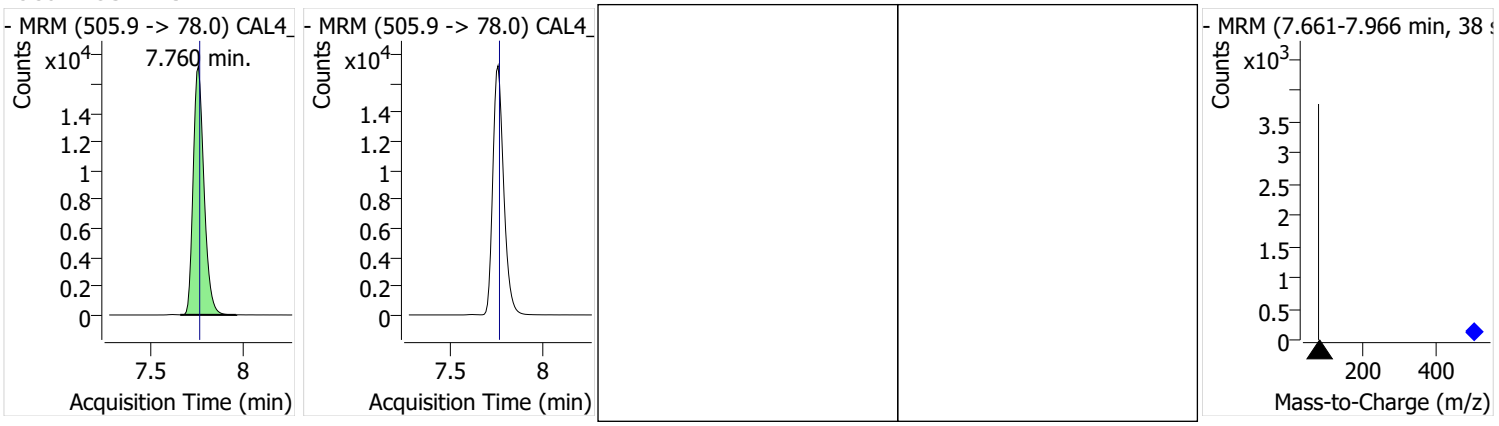
13C8-PFOA - ISTD



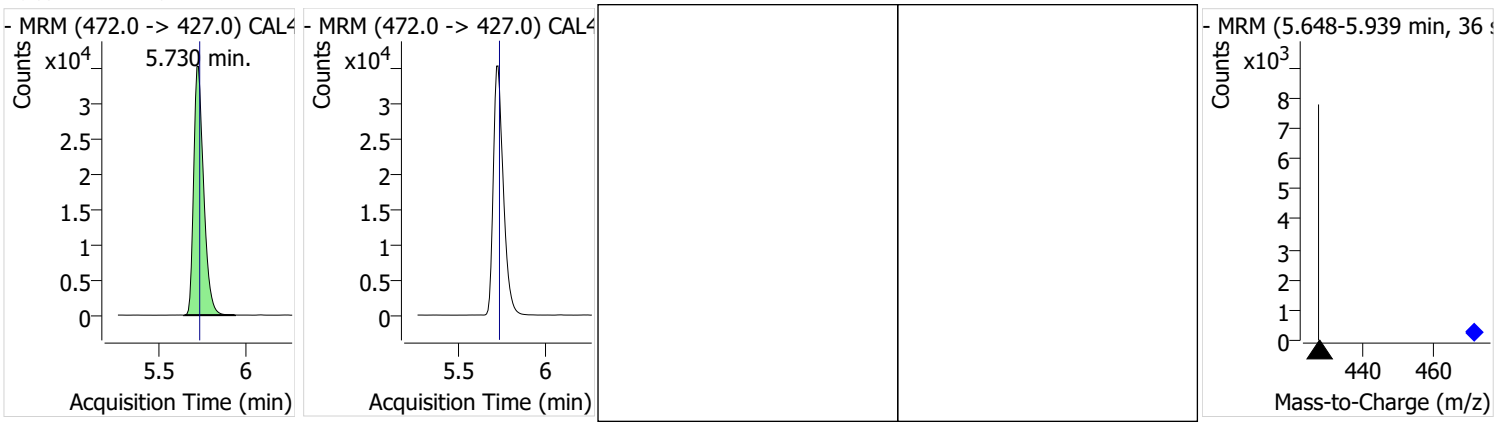
13C8-PFOS - ISTD



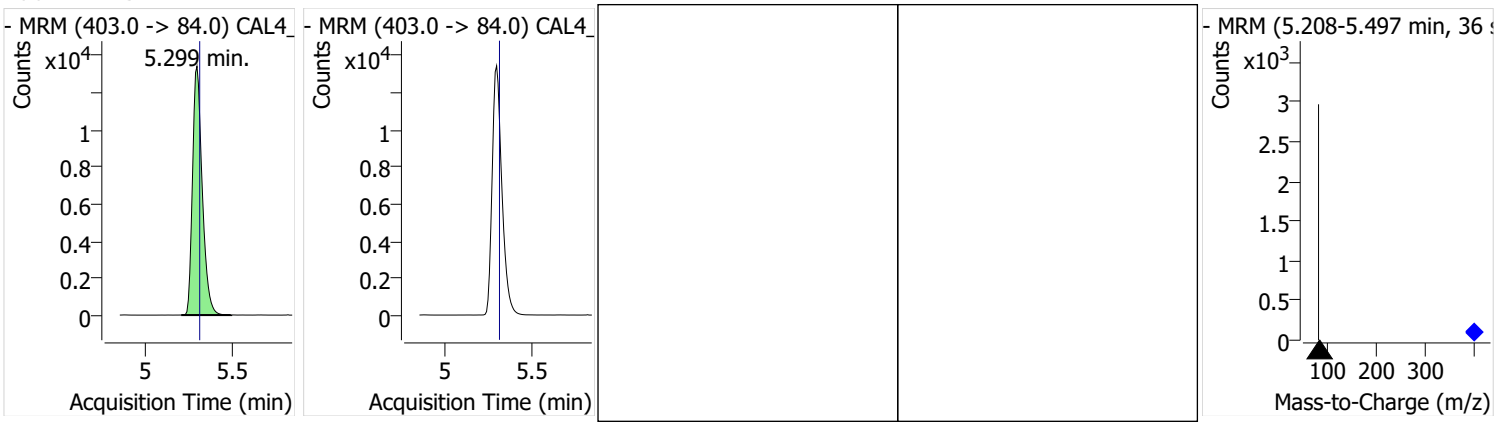
13C8-PFOSA - ISTD



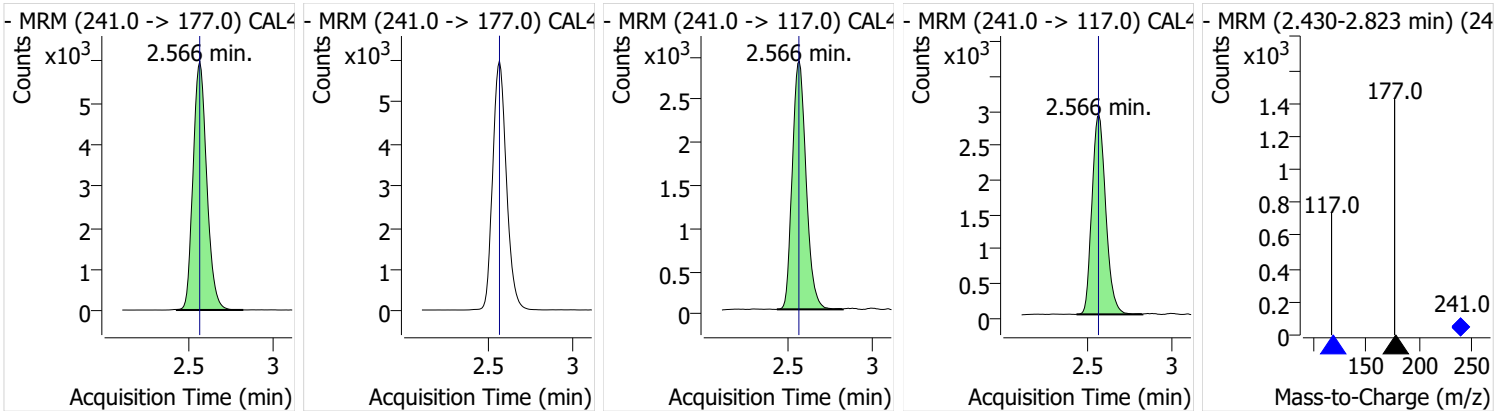
13C9-PFNA - ISTD



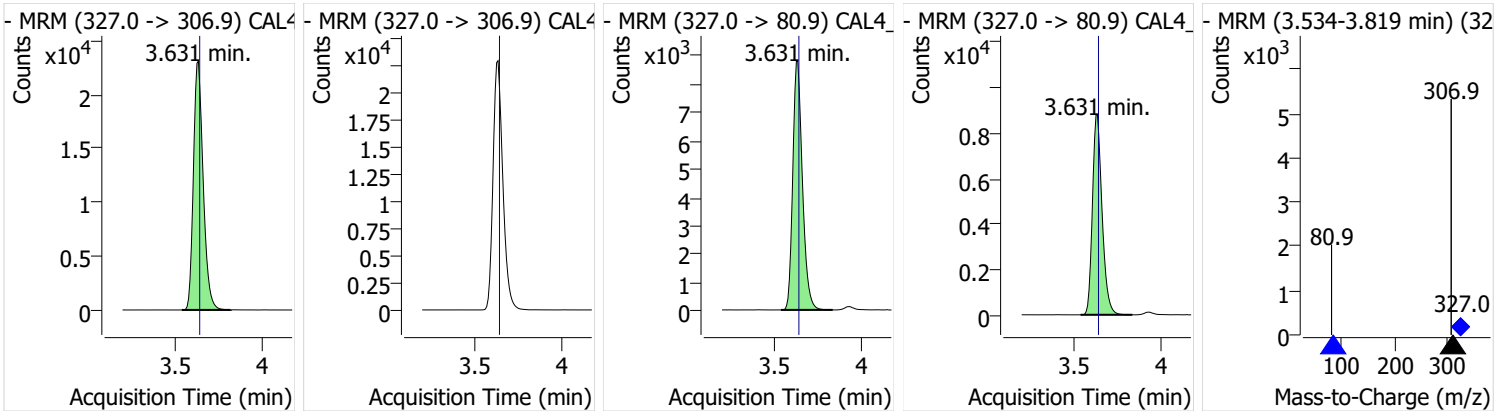
18O2-PFHxS



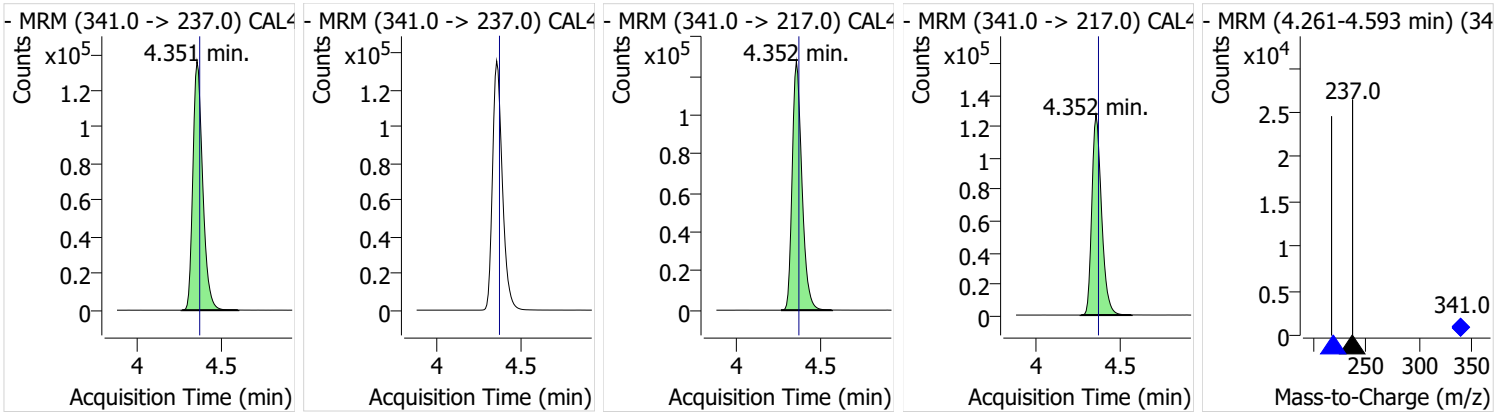
3:3FTCA



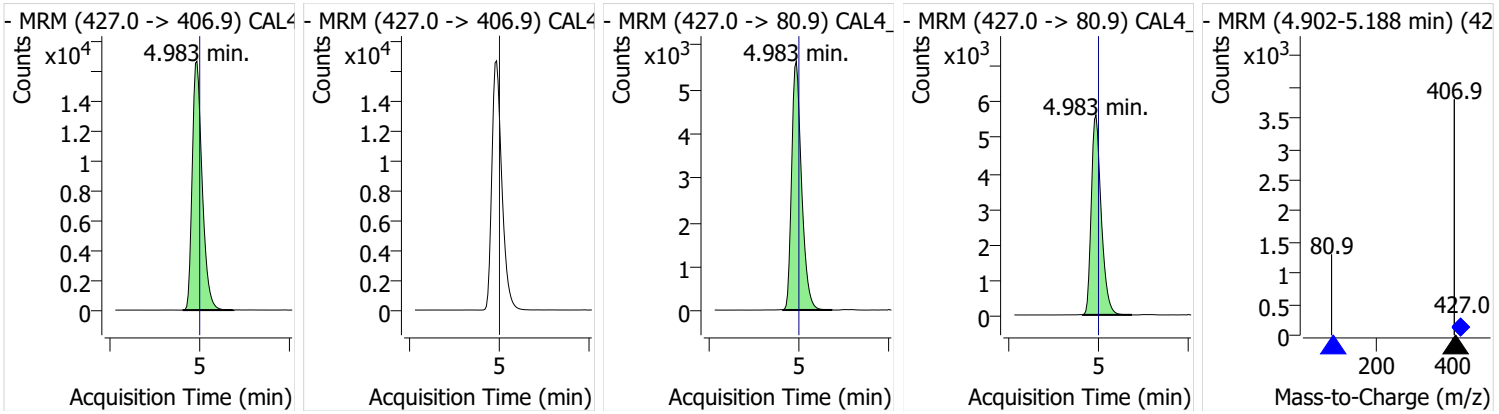
4:2FTS



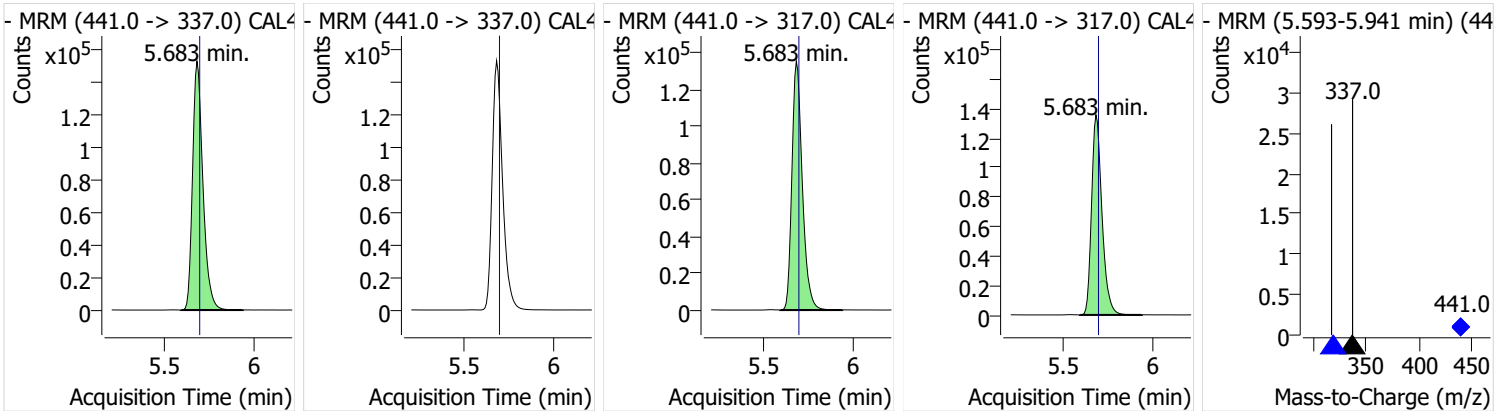
5:3FTCA



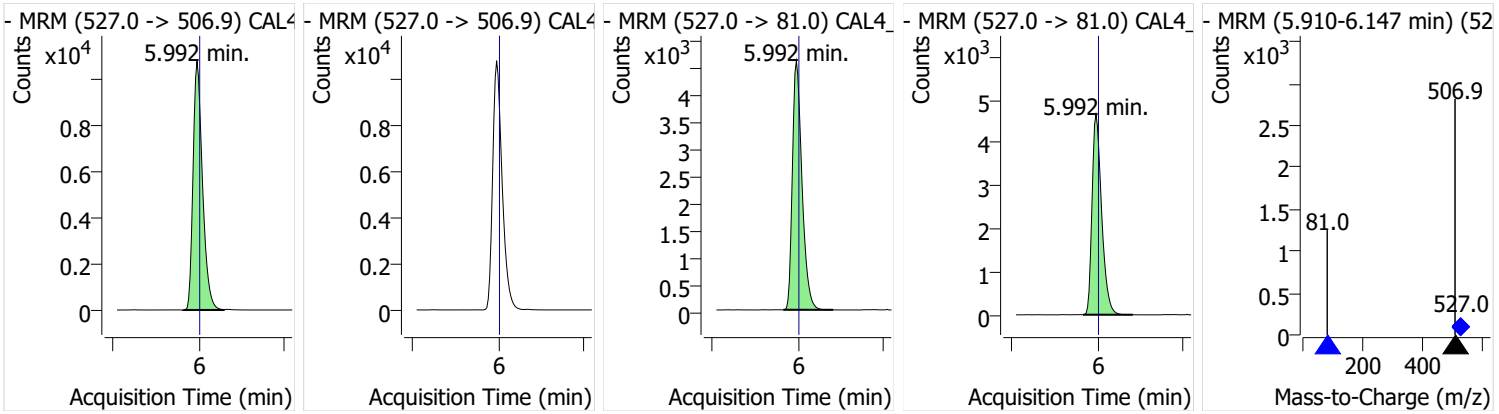
6:2FTS



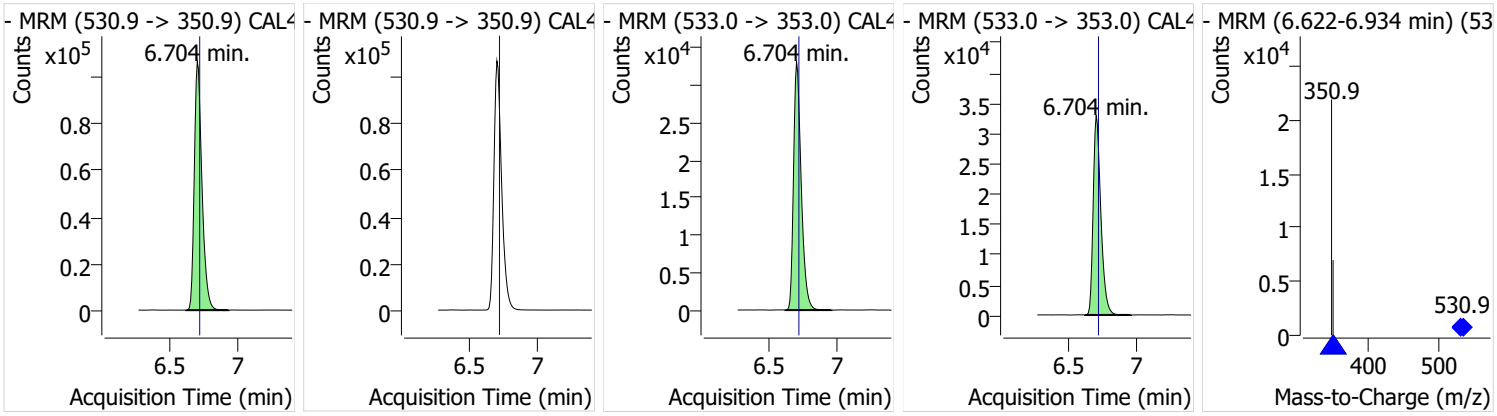
7:3FTCA



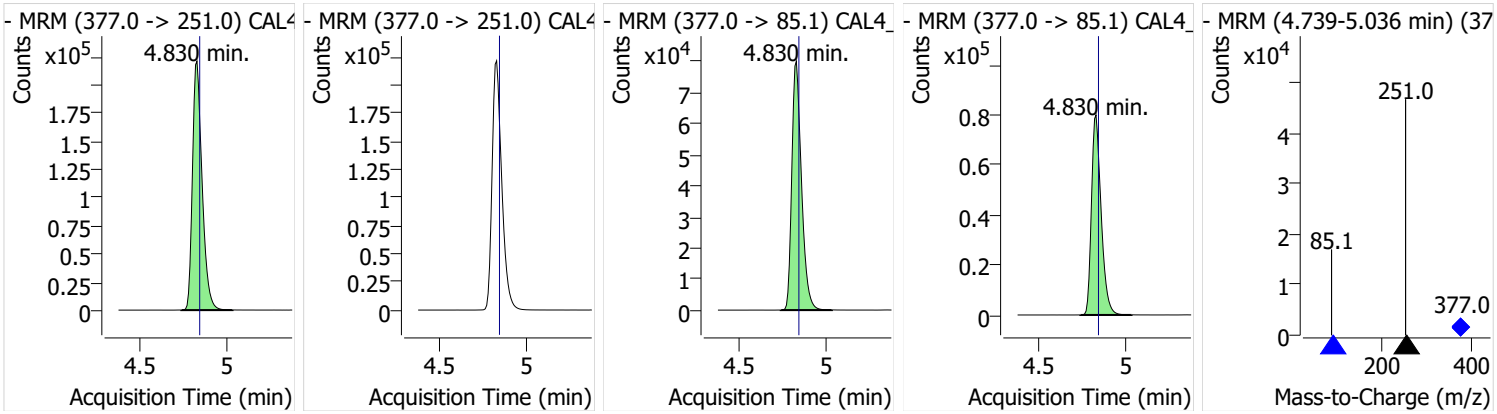
8:2FTS



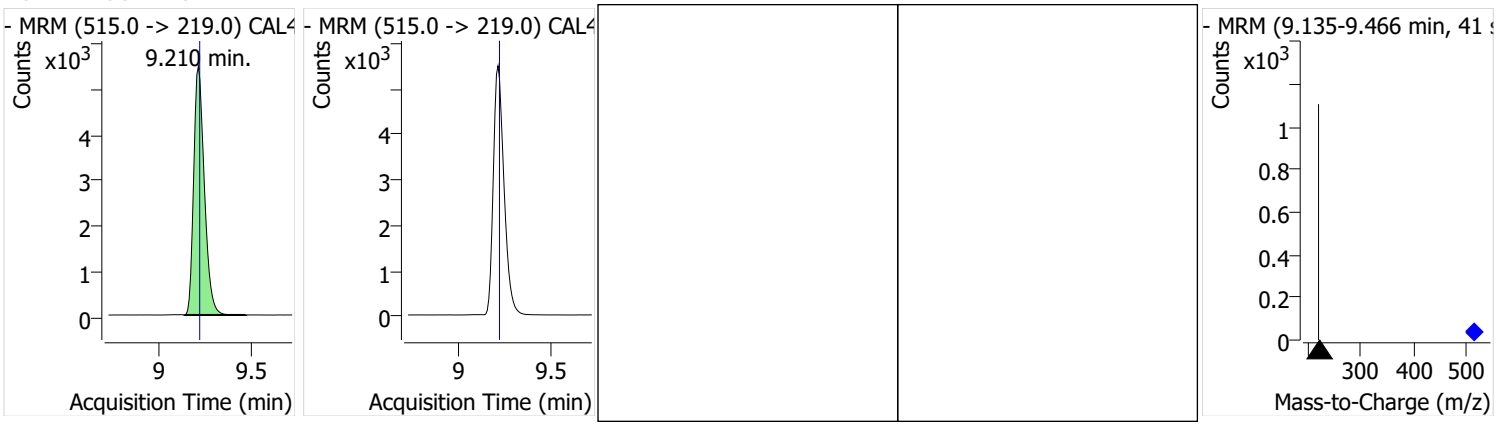
9Cl-PF3ONS



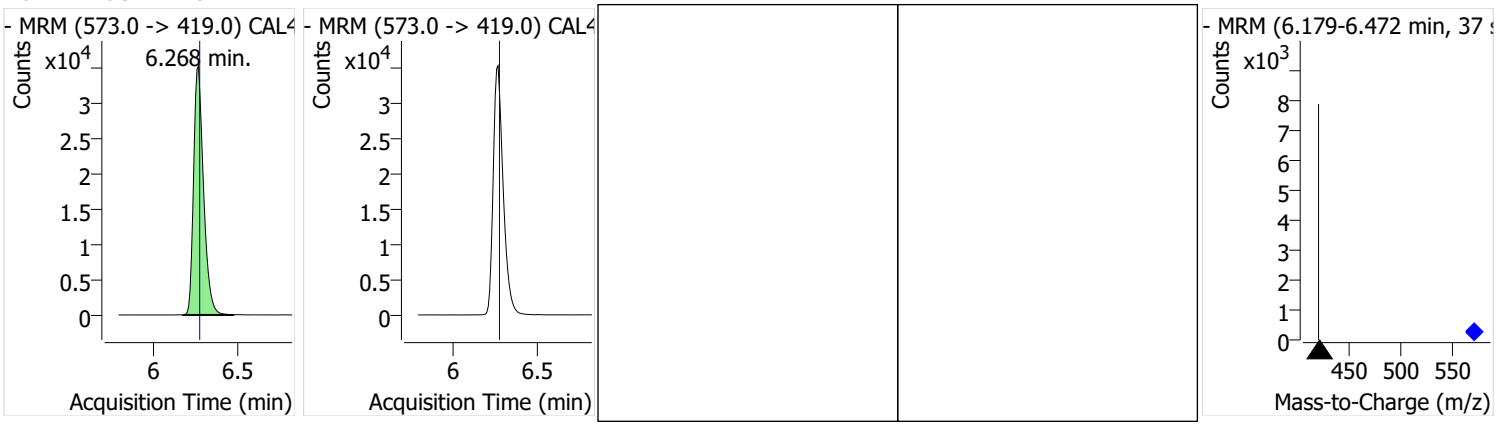
ADONA



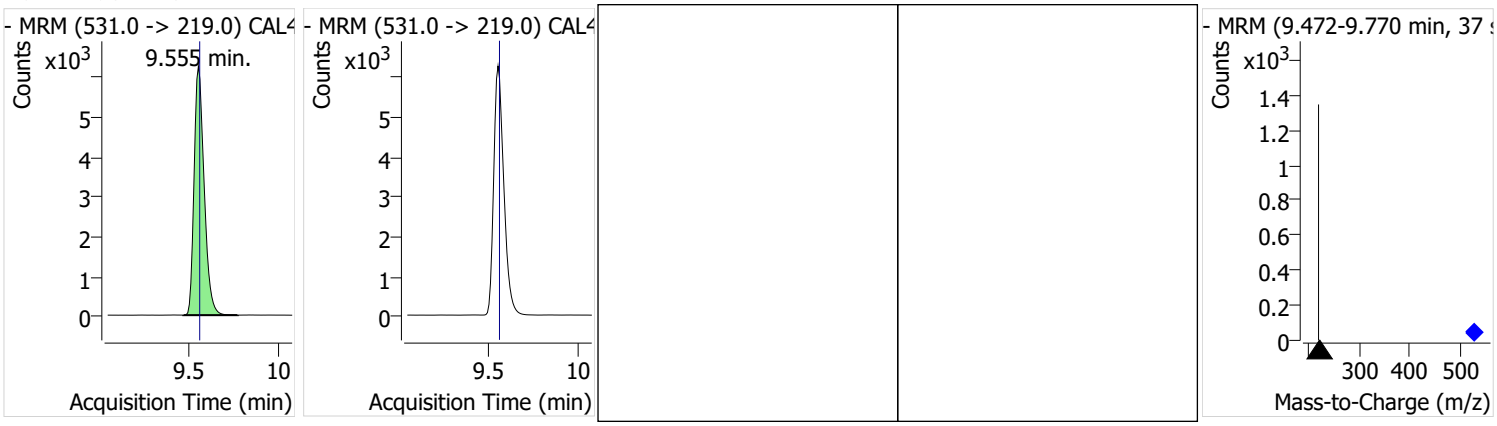
D3-NMeFOSA - ISTD



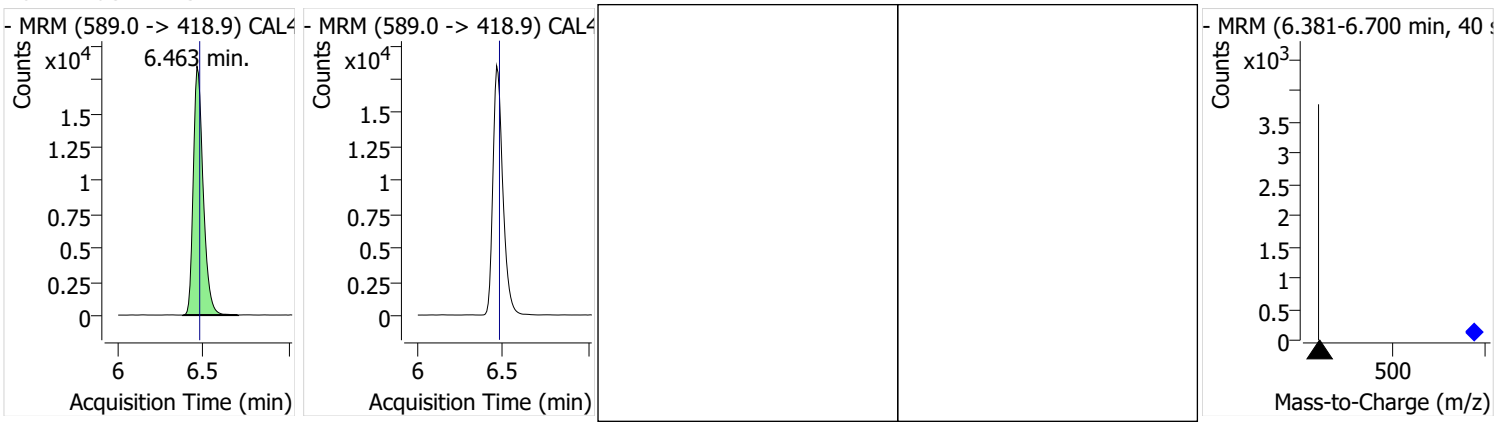
D3-NMeFOSAA - ISTD



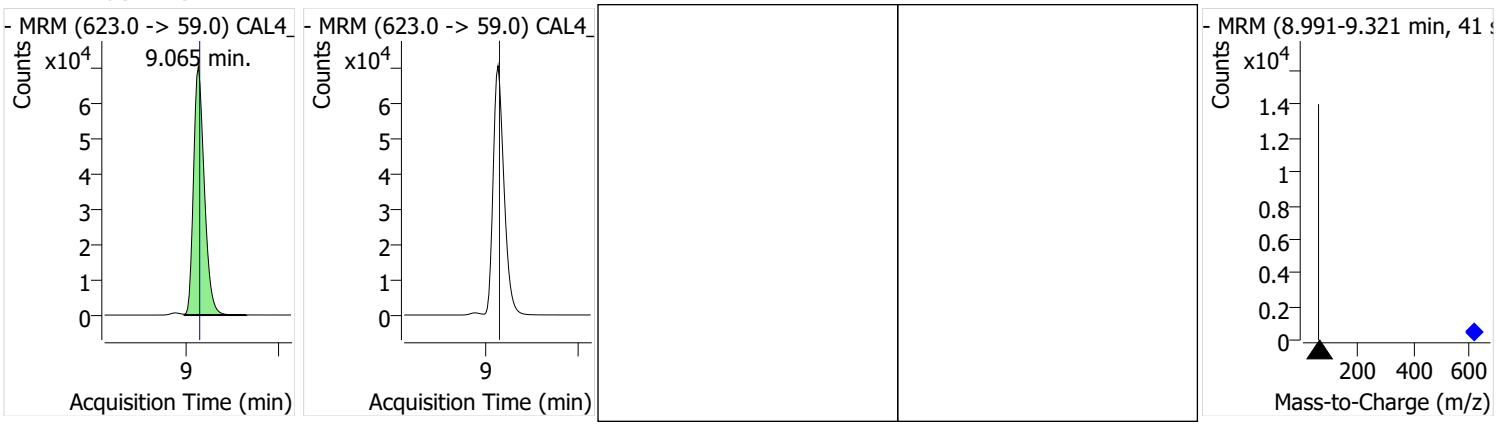
D5-NEtFOSA - ISTD



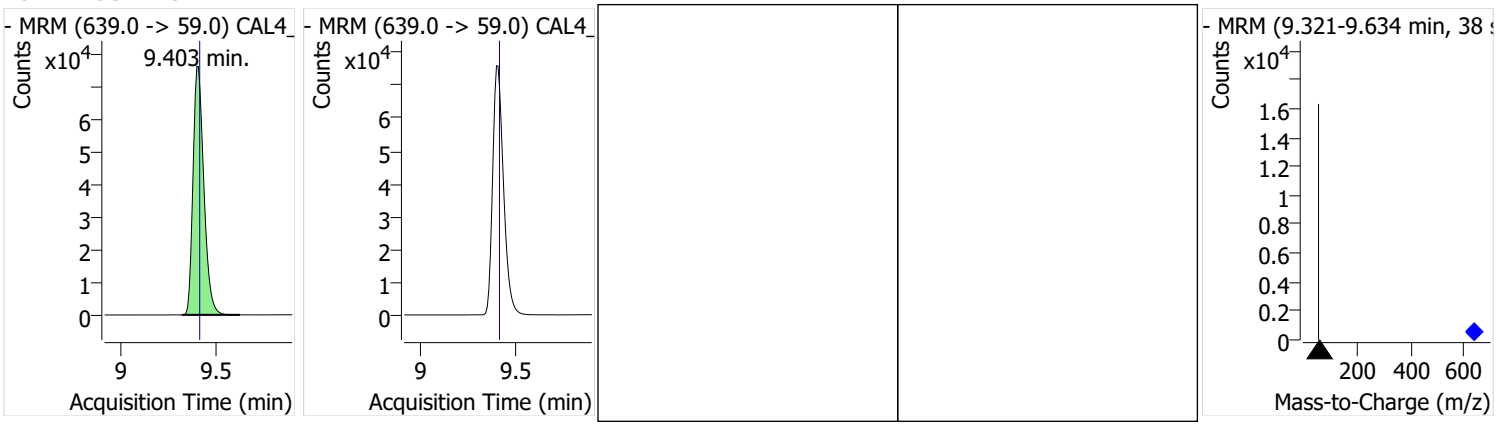
D5-NEtFOSAA - ISTD



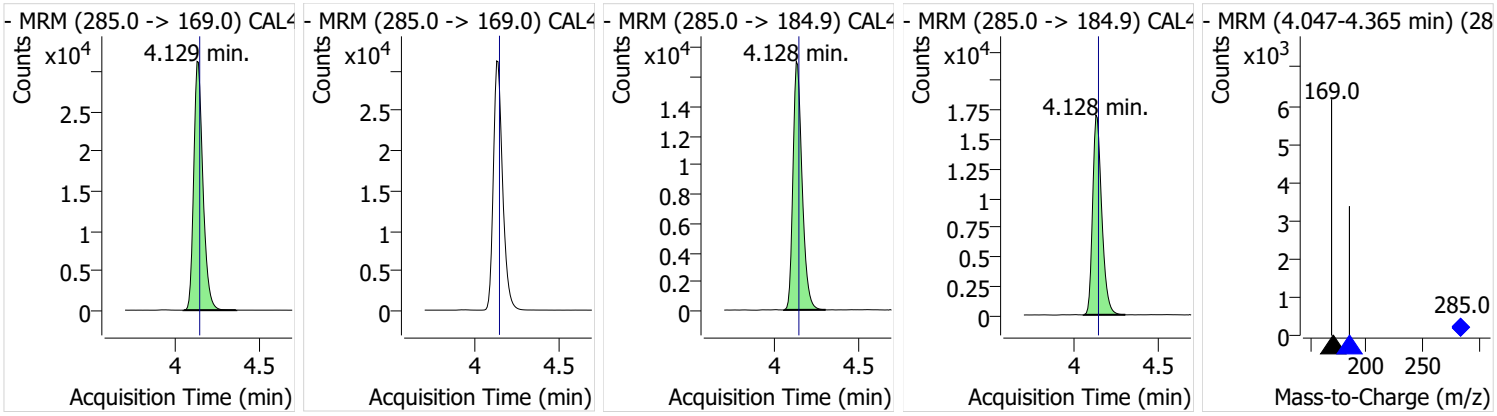
D7-NMeFOSE - ISTD



D9-NEtFOSE - ISTD



HFPO-DA



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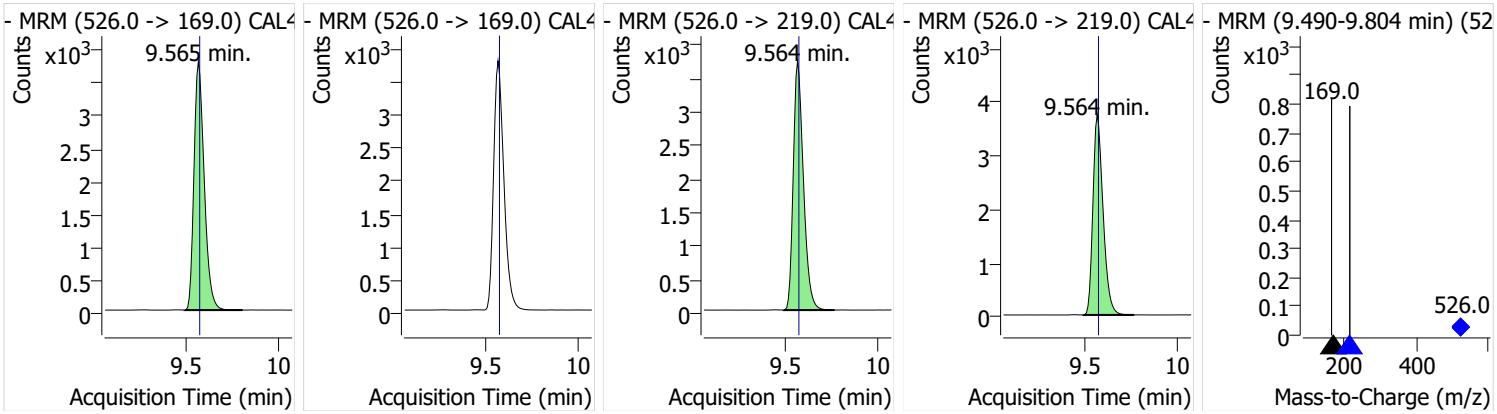

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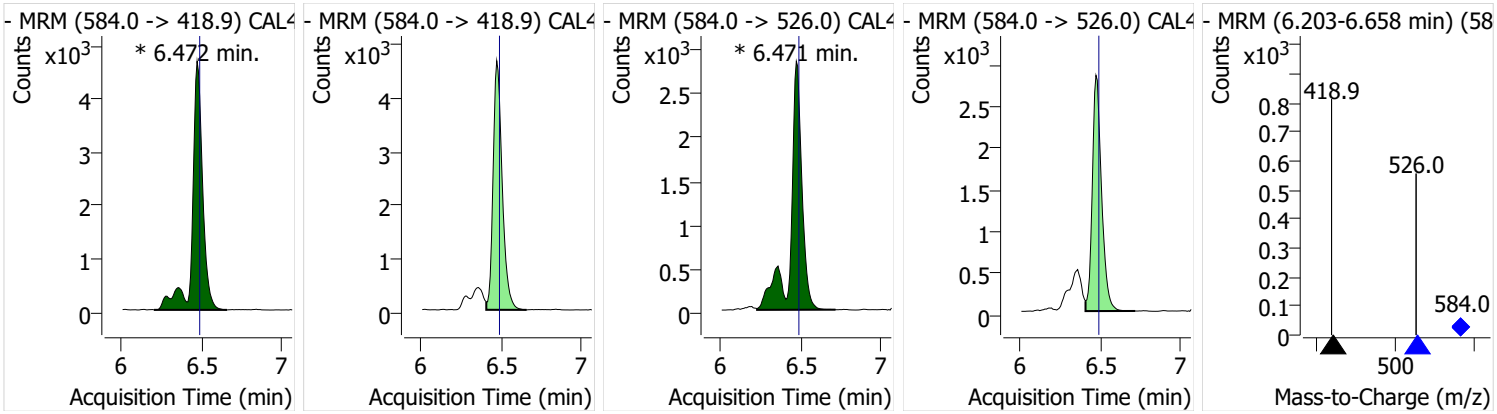

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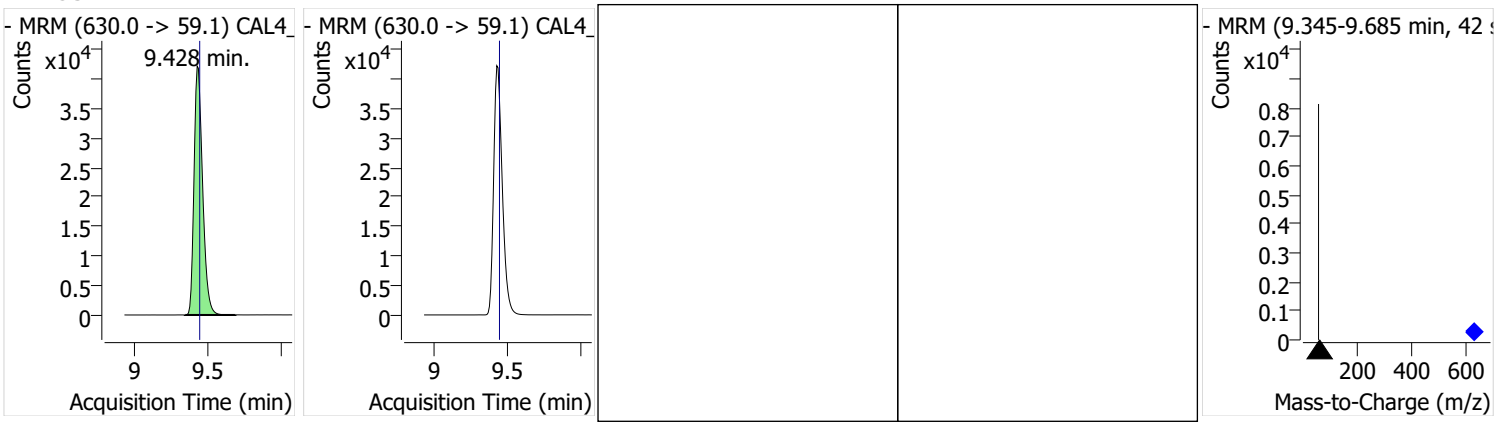

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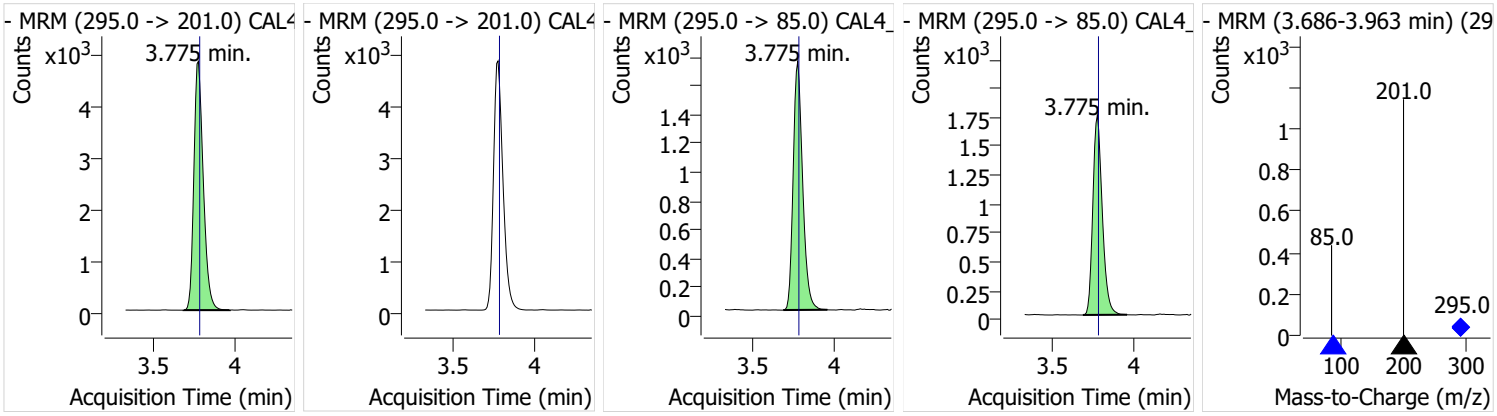

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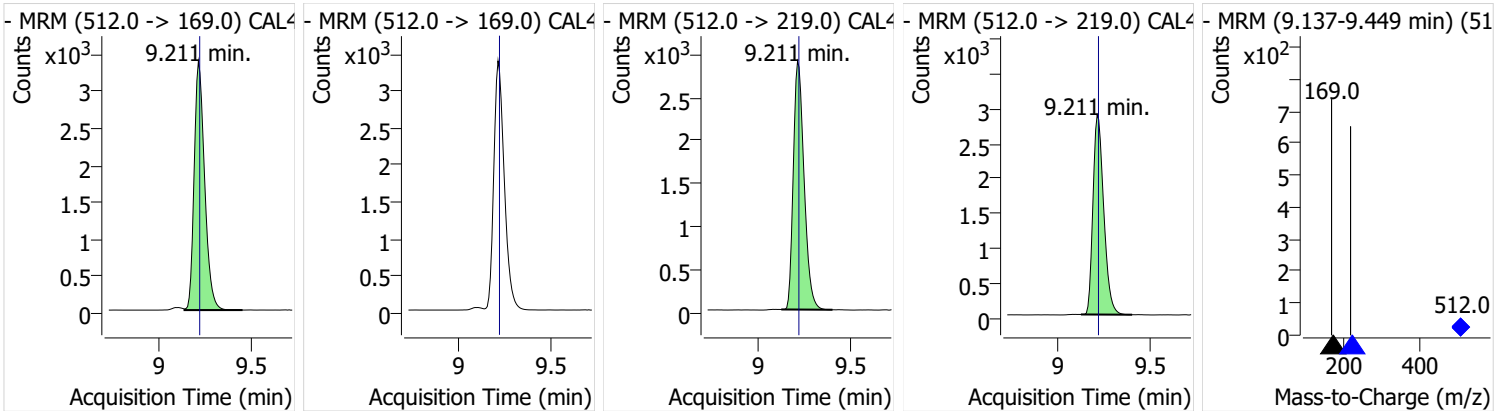

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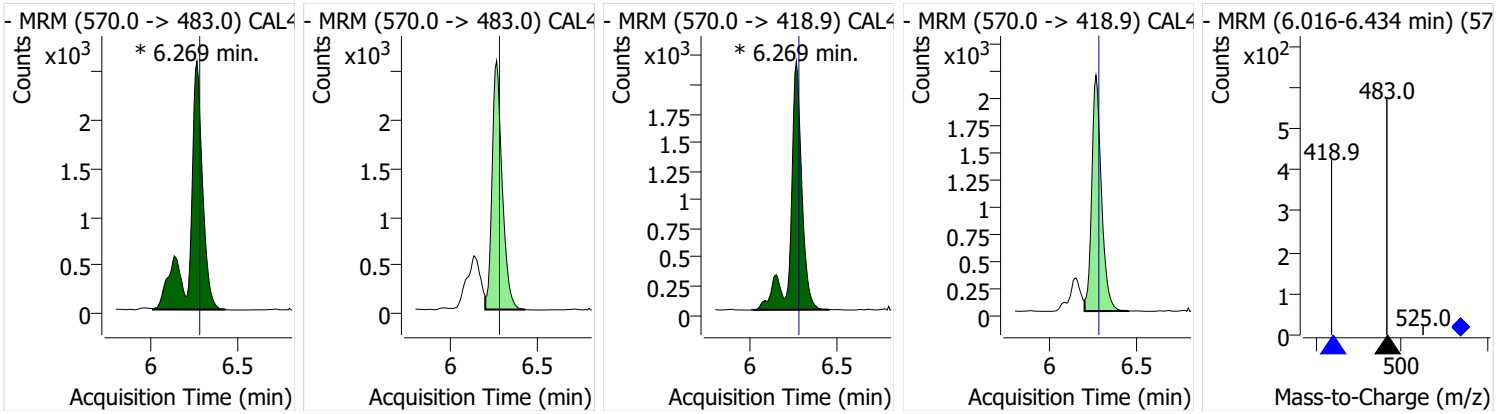

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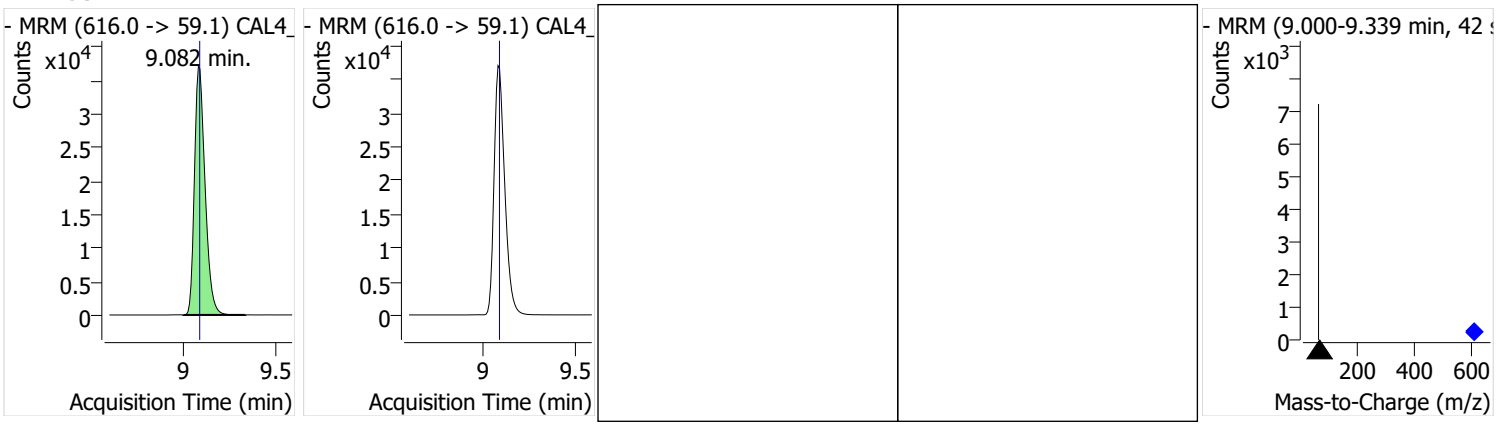

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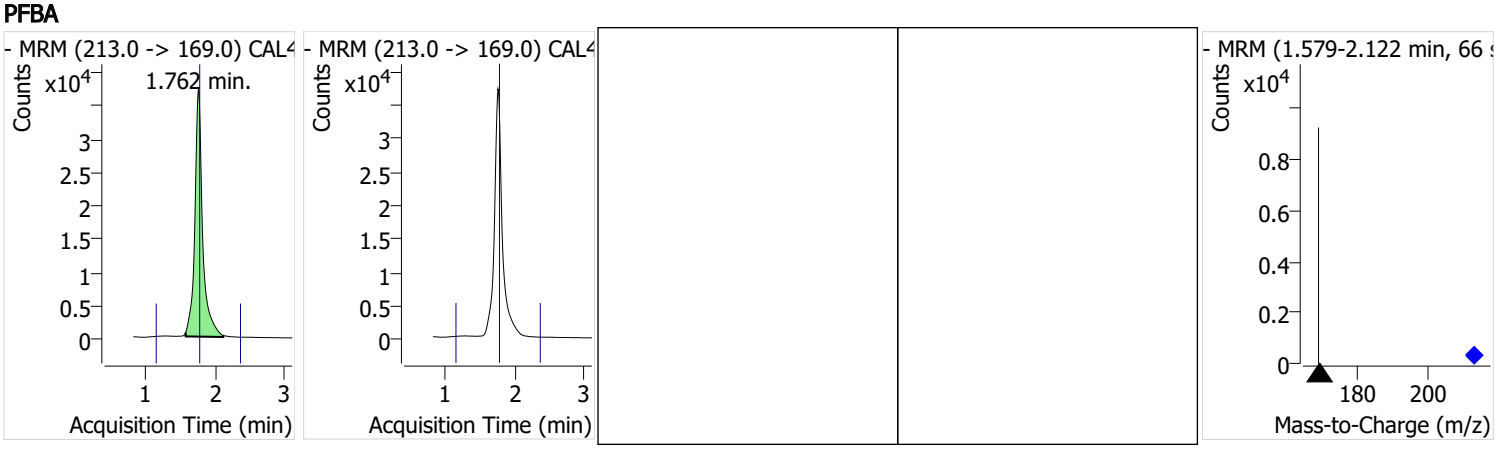

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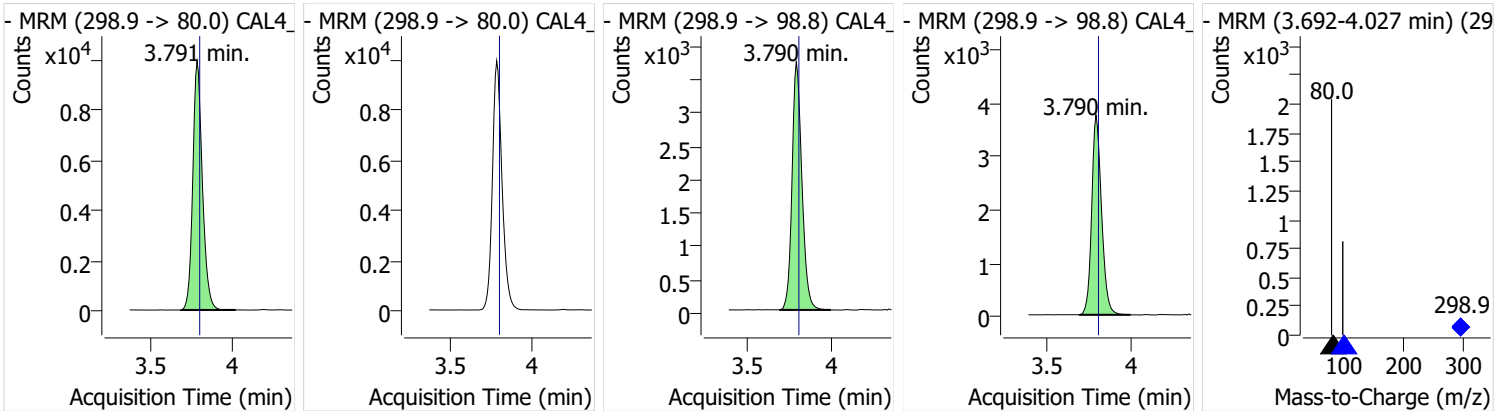

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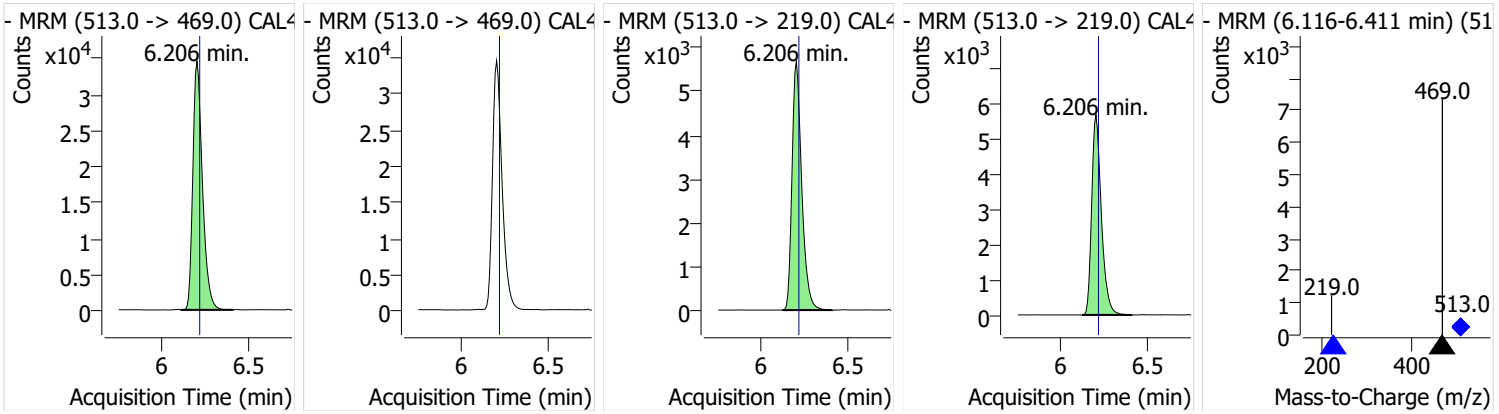

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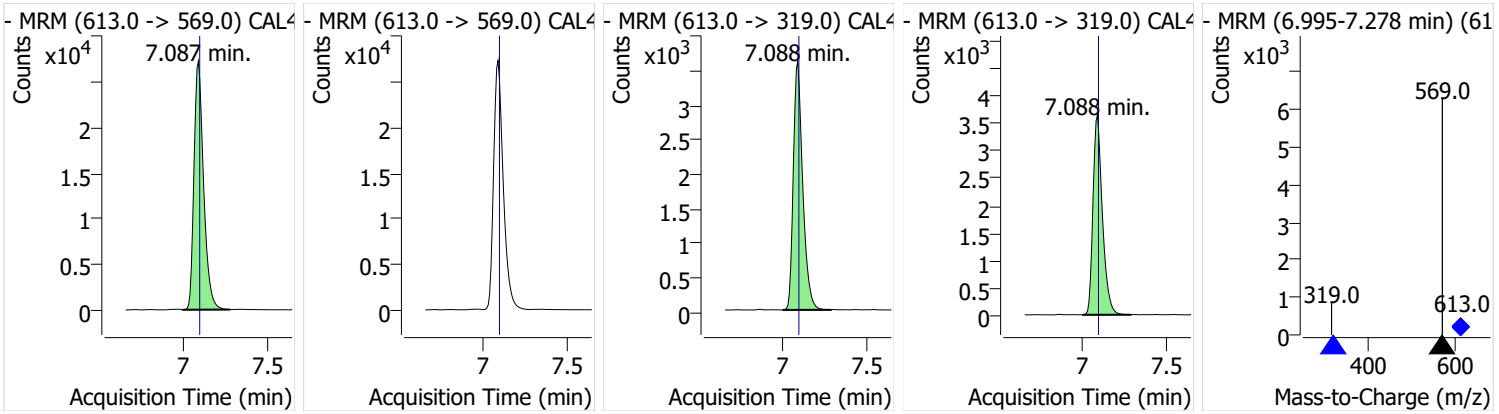

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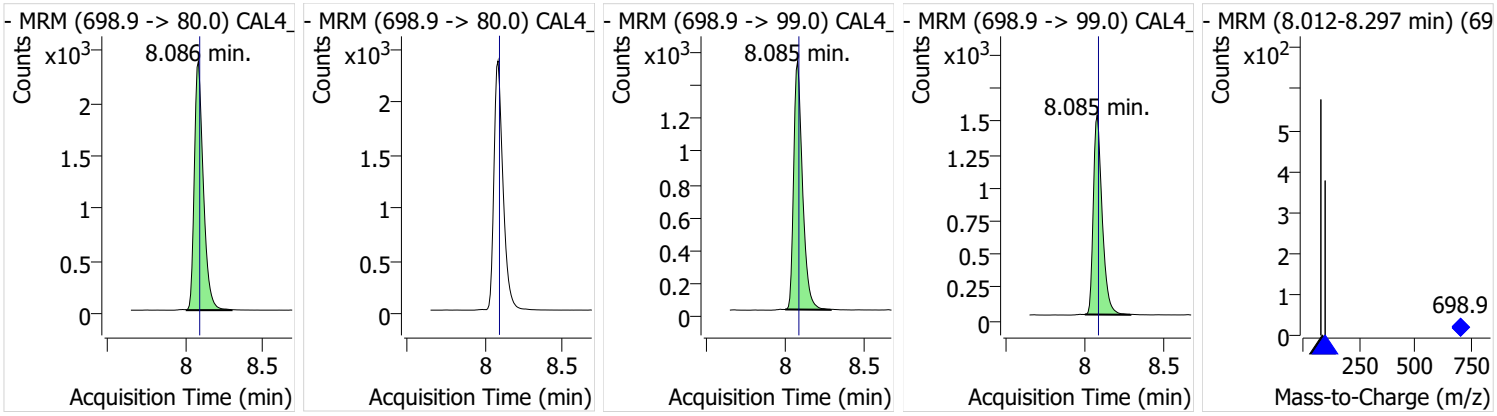

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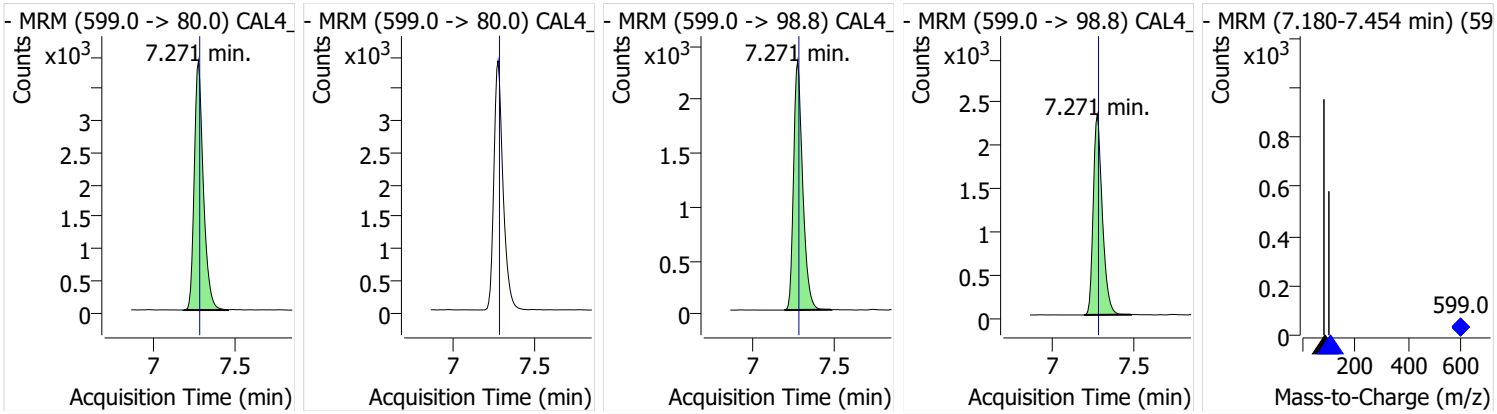

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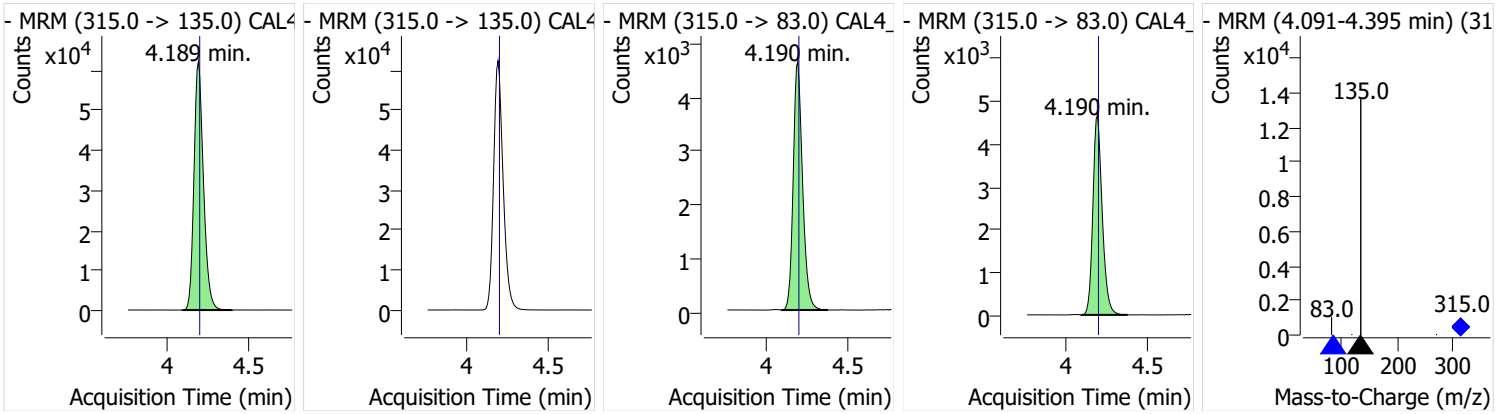
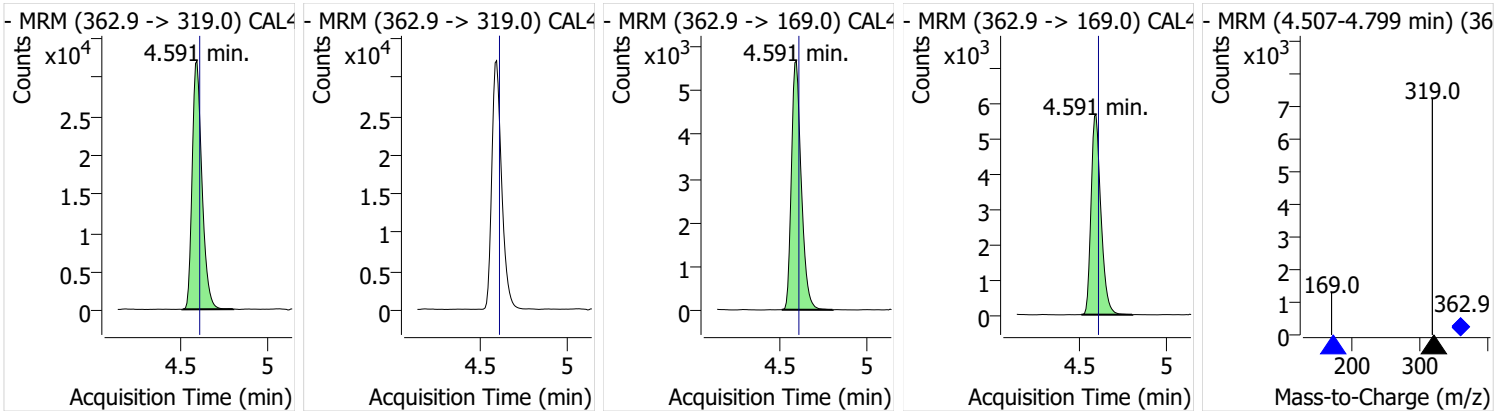


PFHpA



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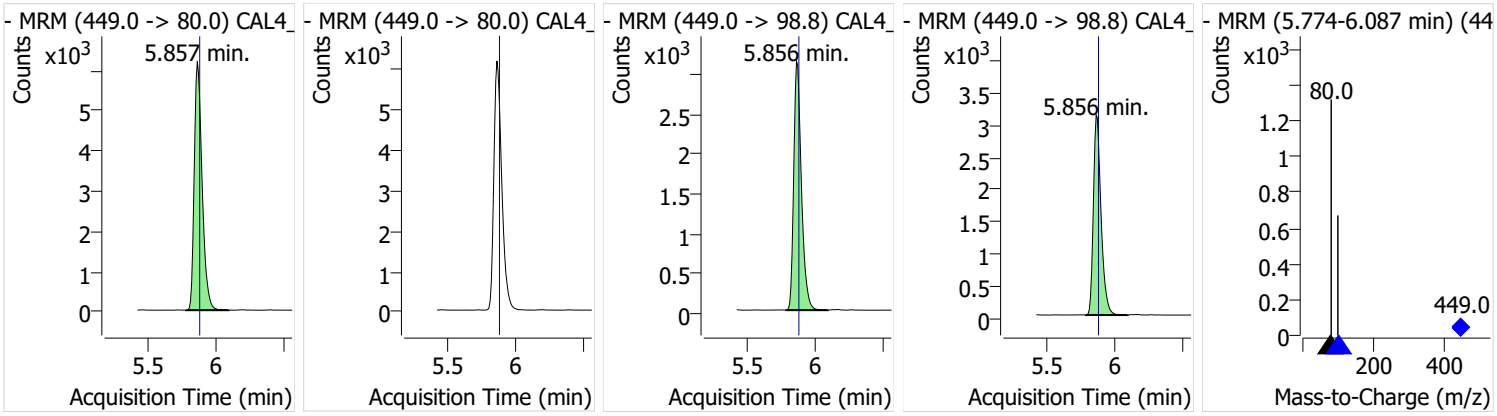

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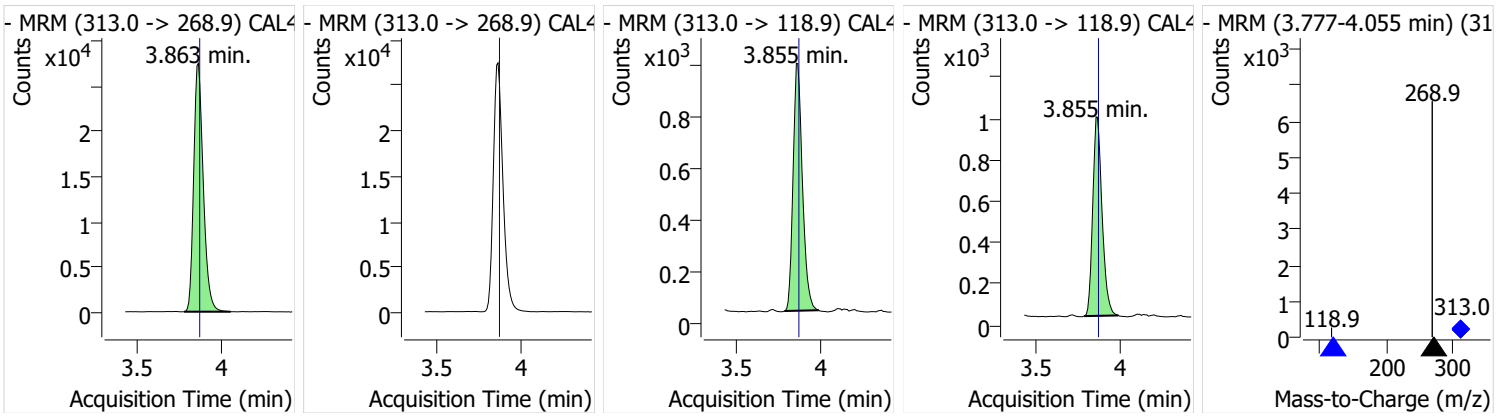

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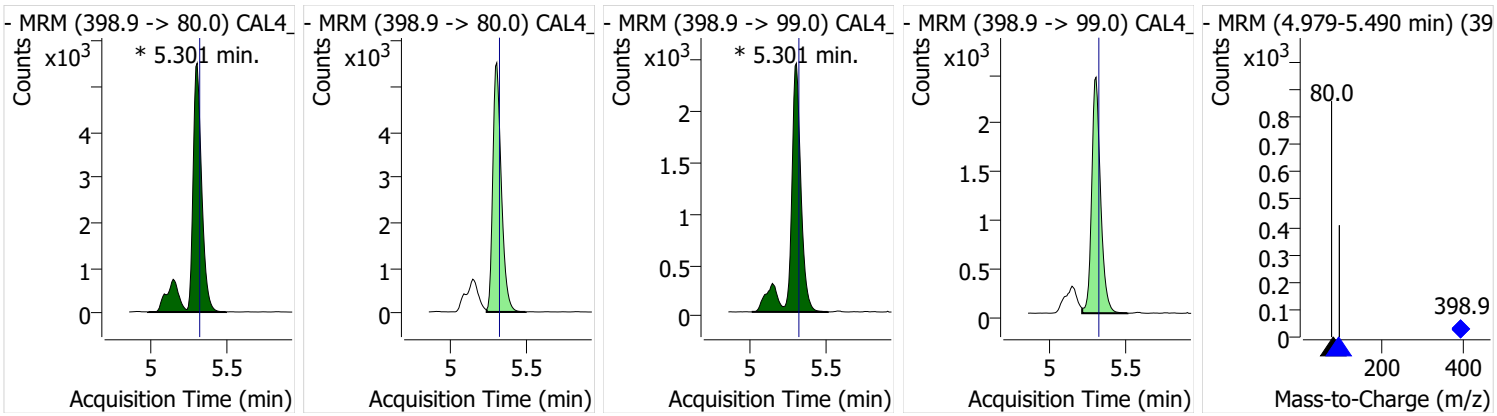

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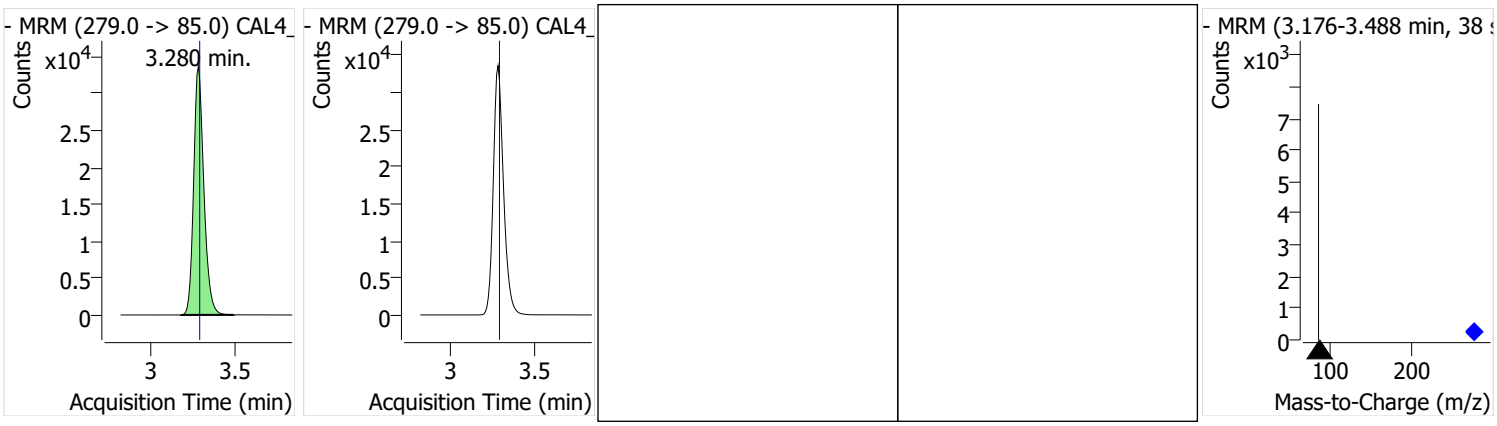

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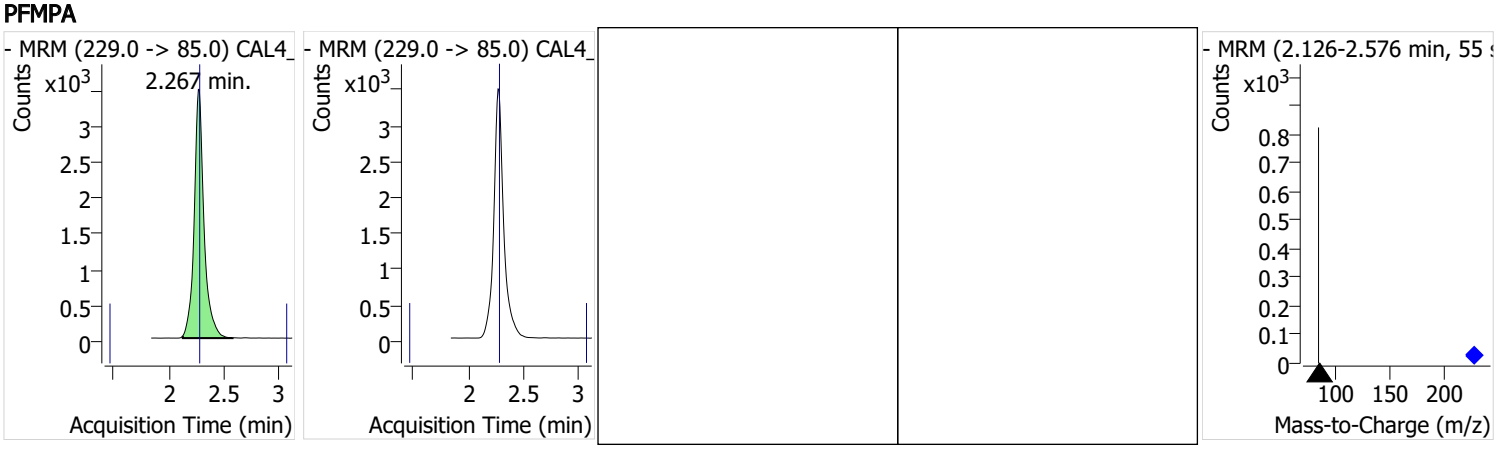

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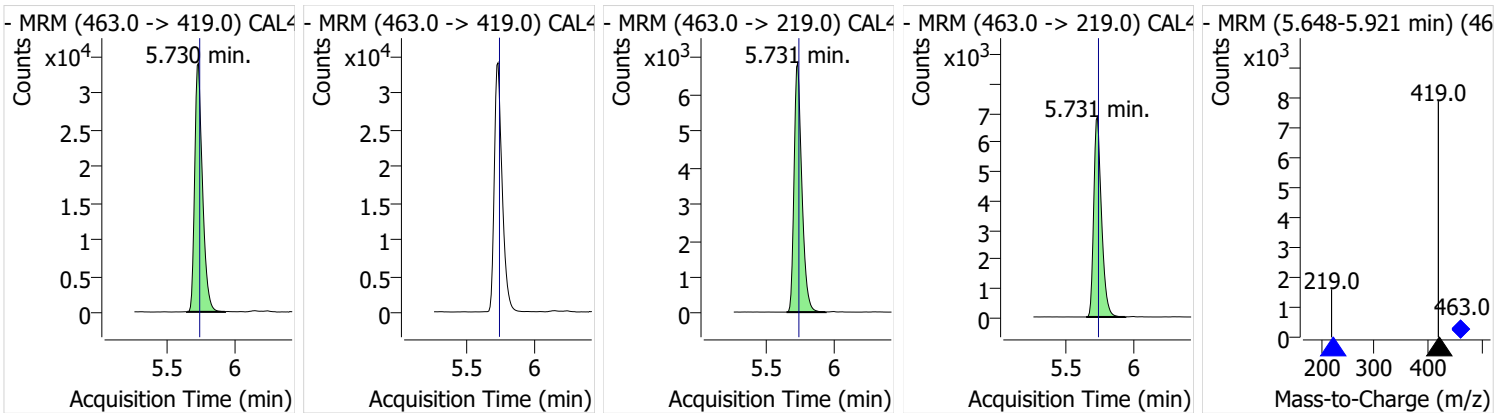

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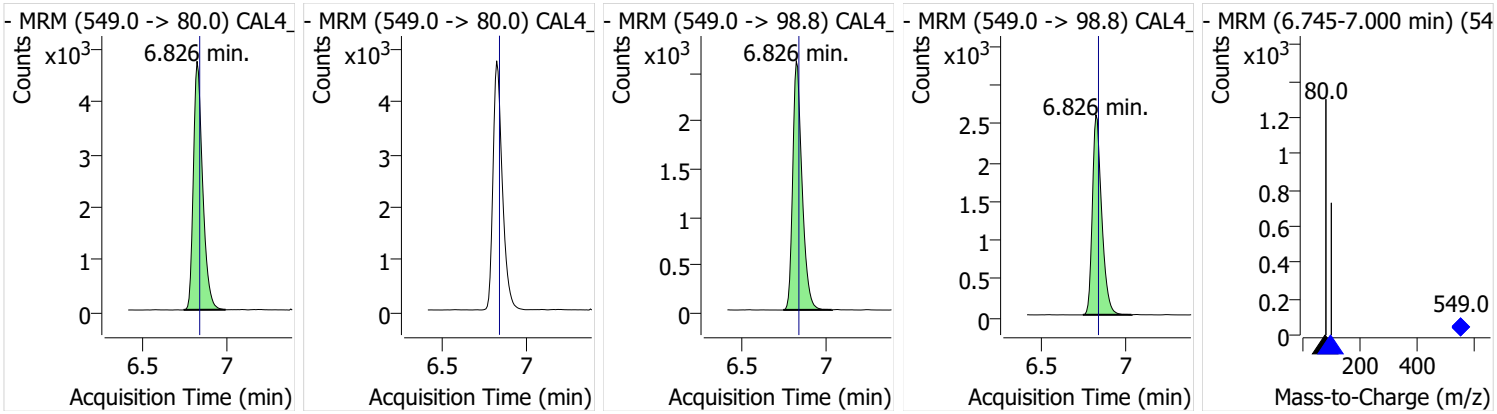

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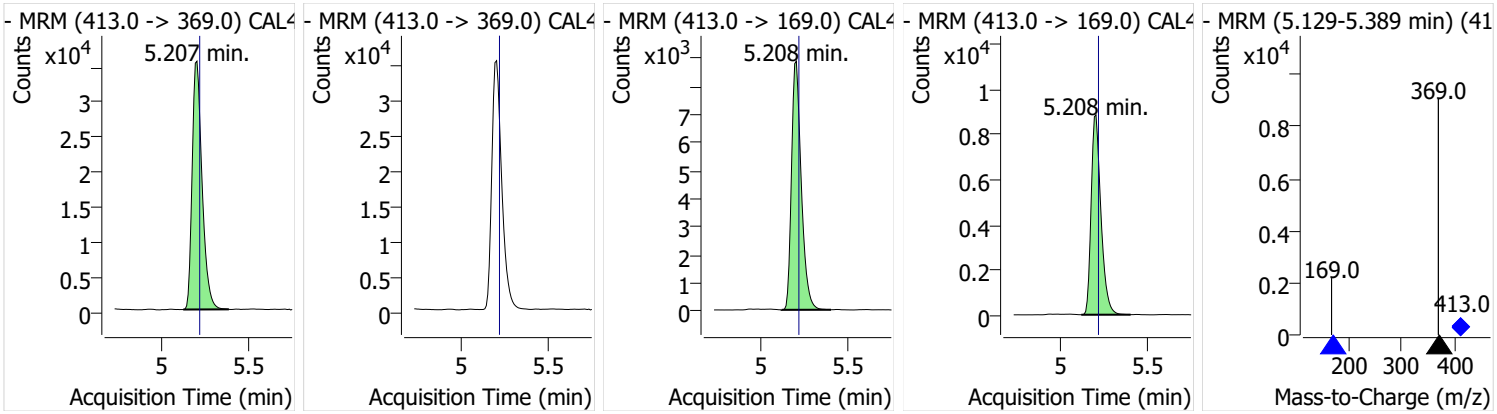

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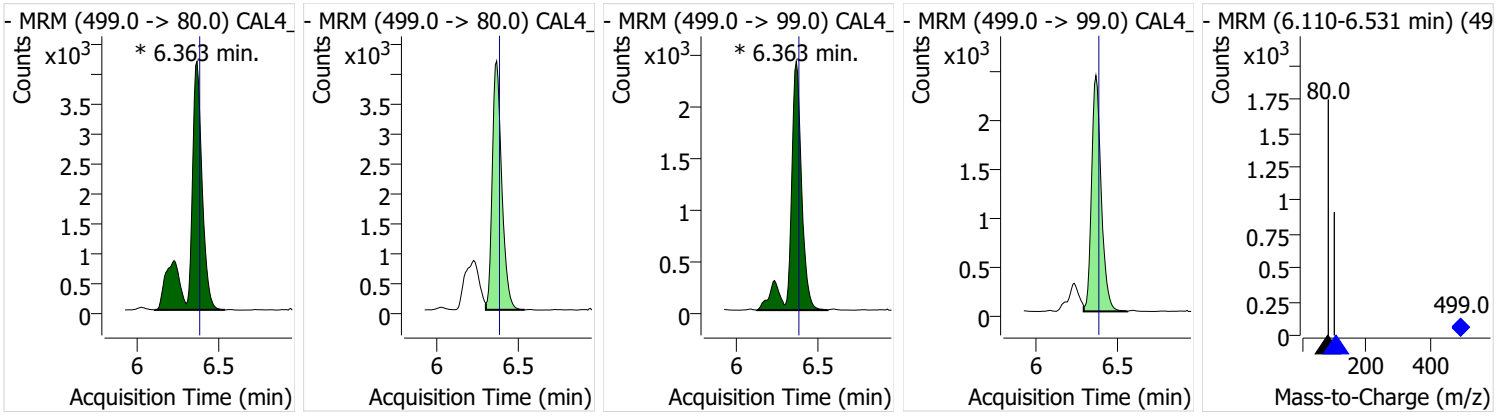

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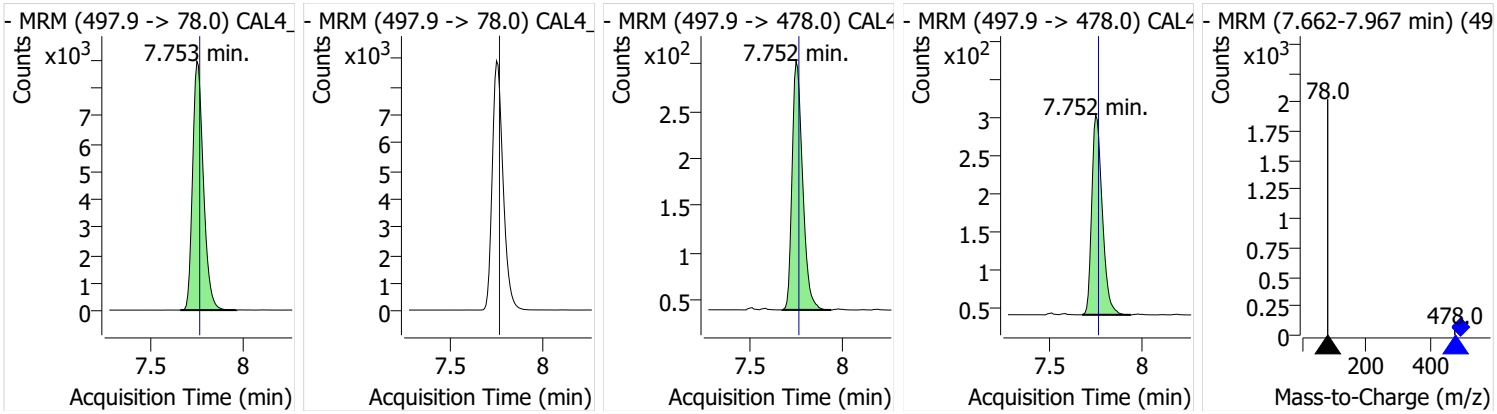

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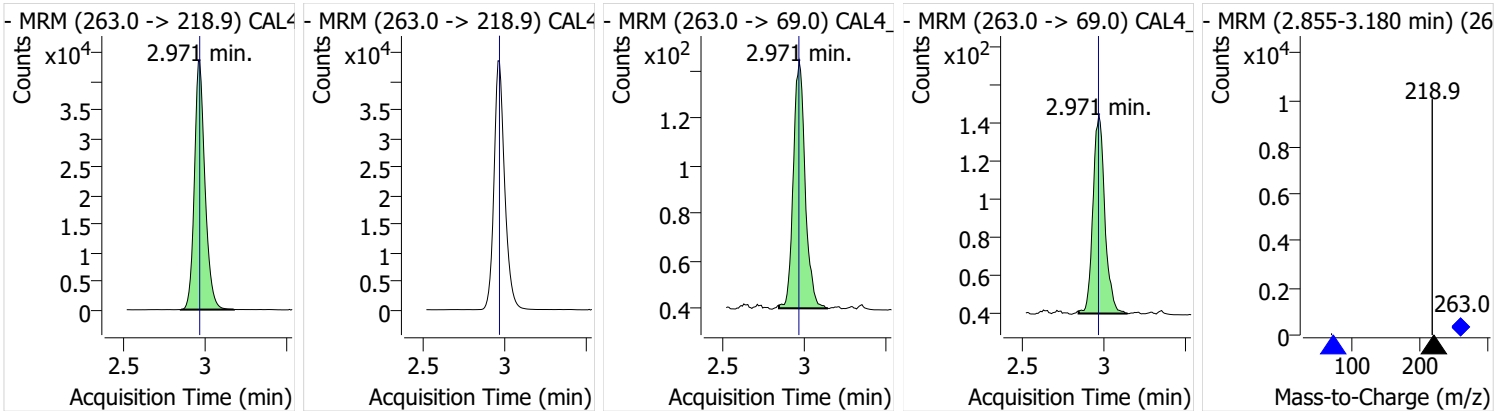

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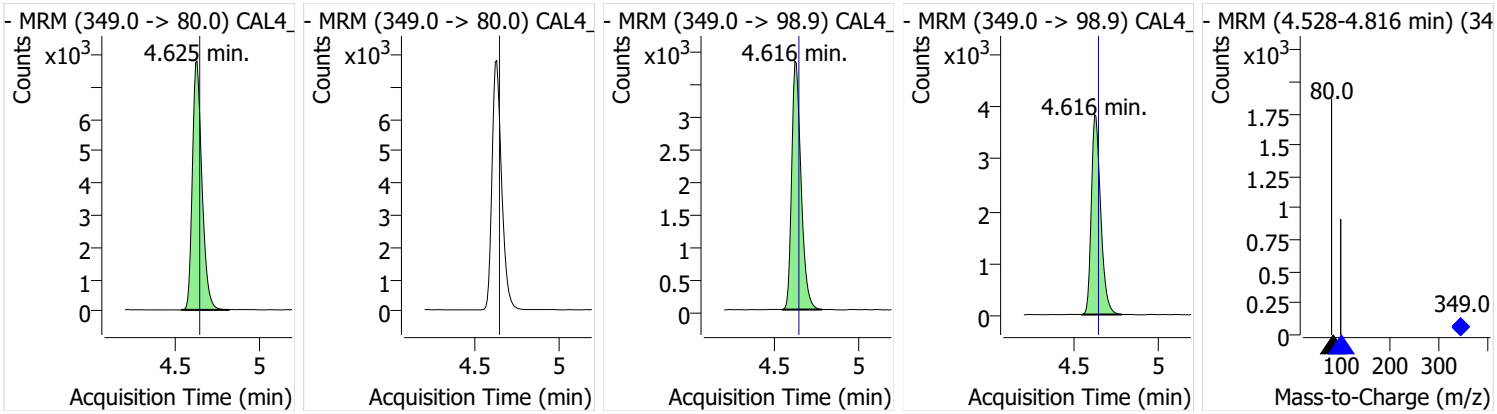

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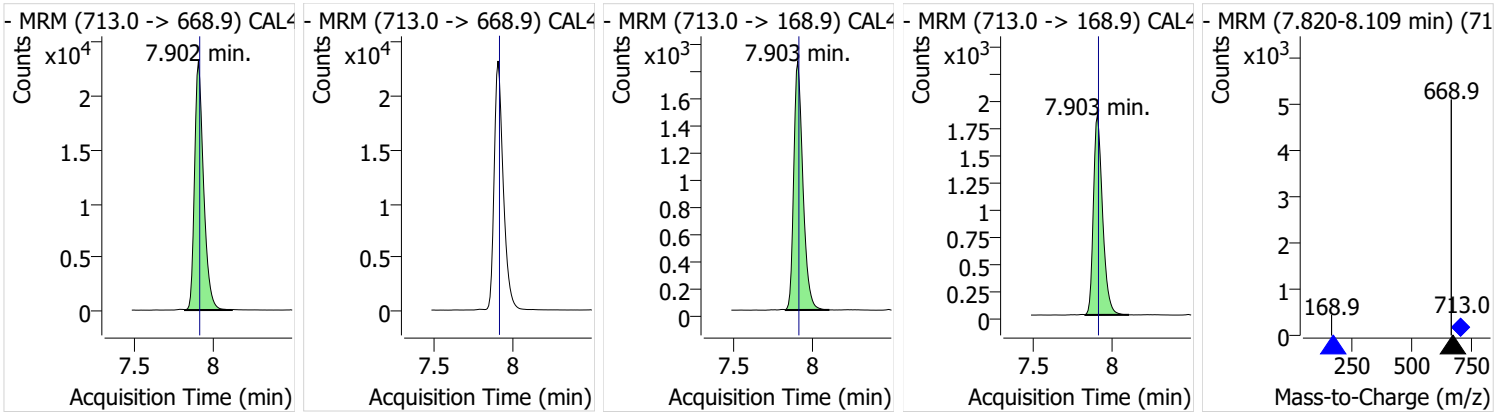

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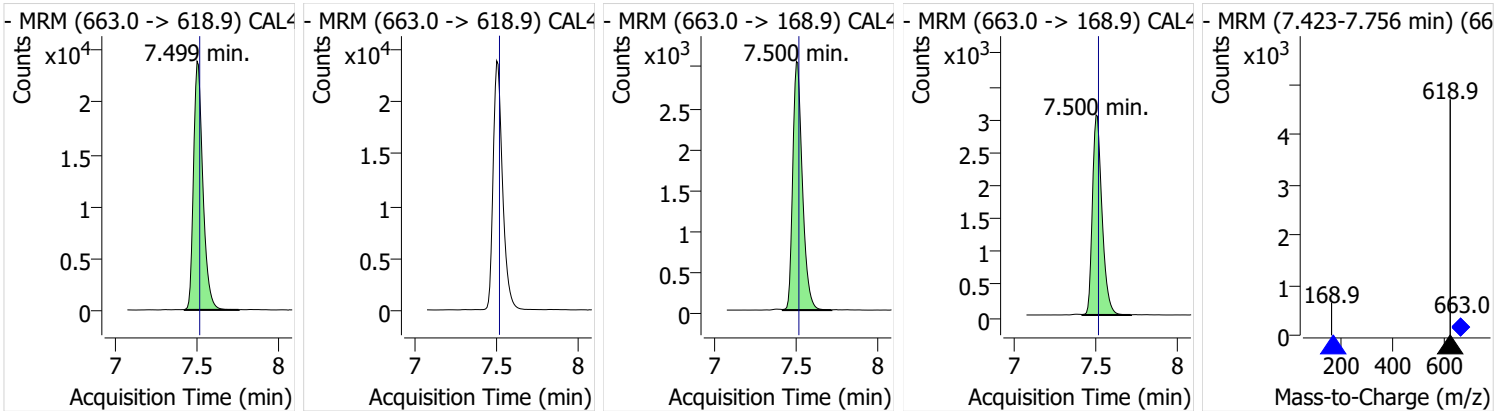

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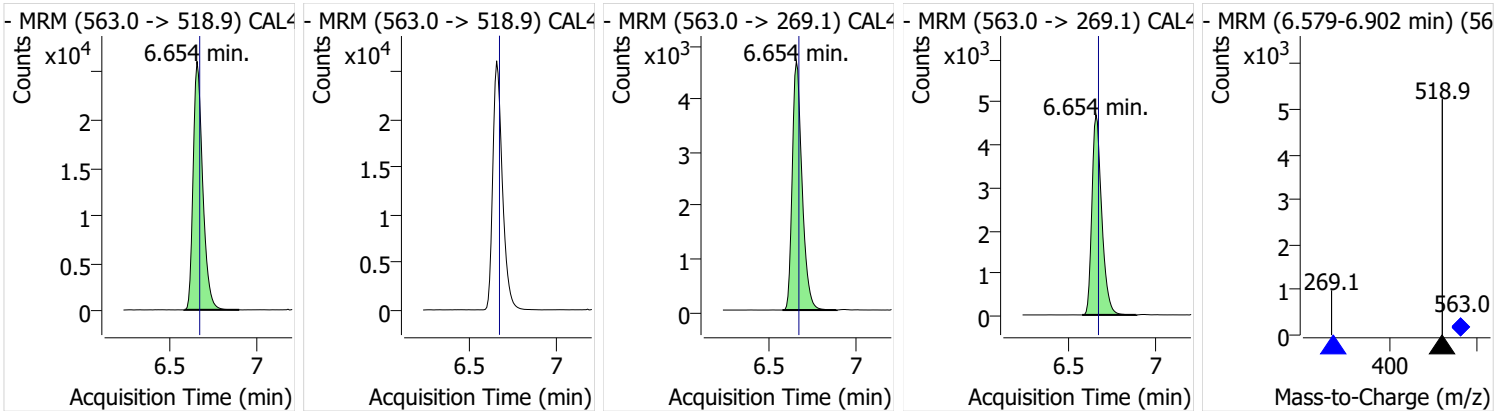

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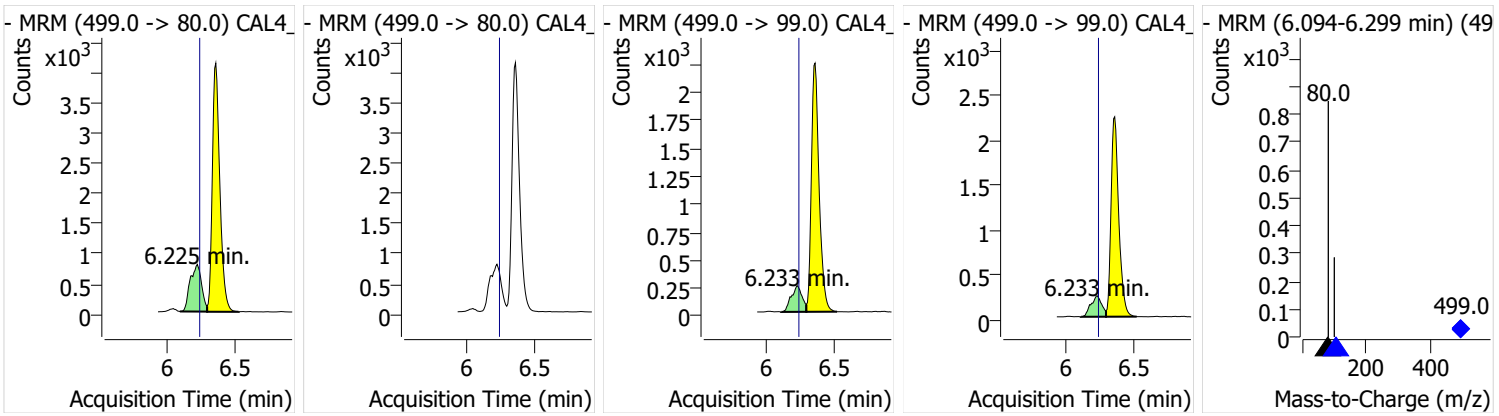
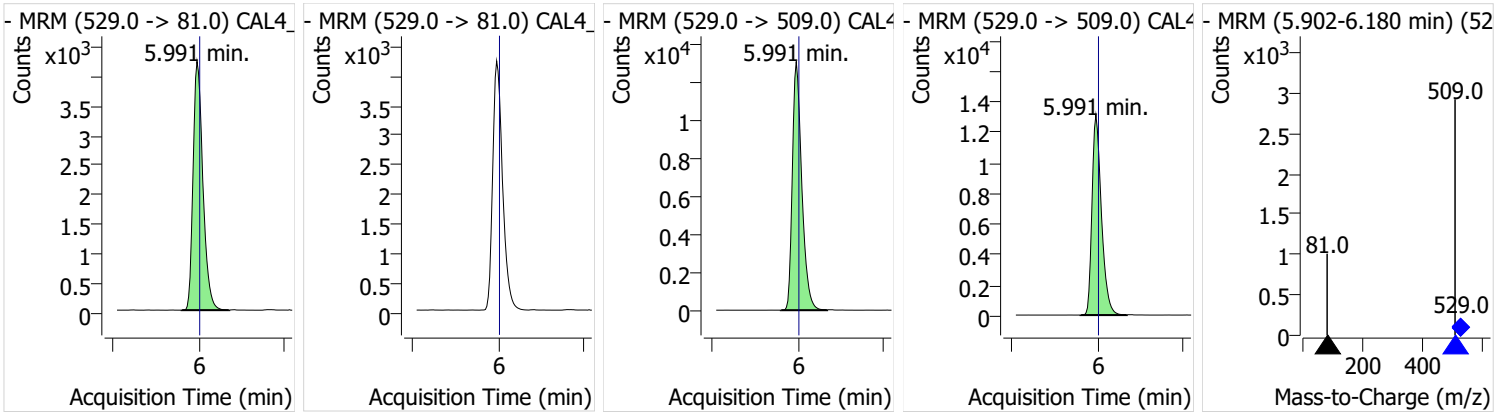
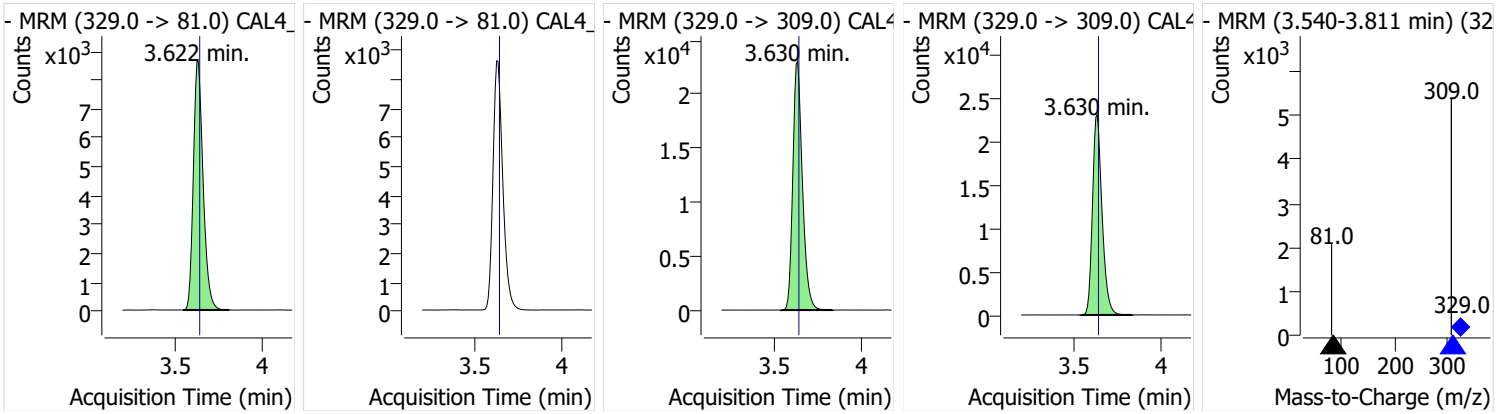


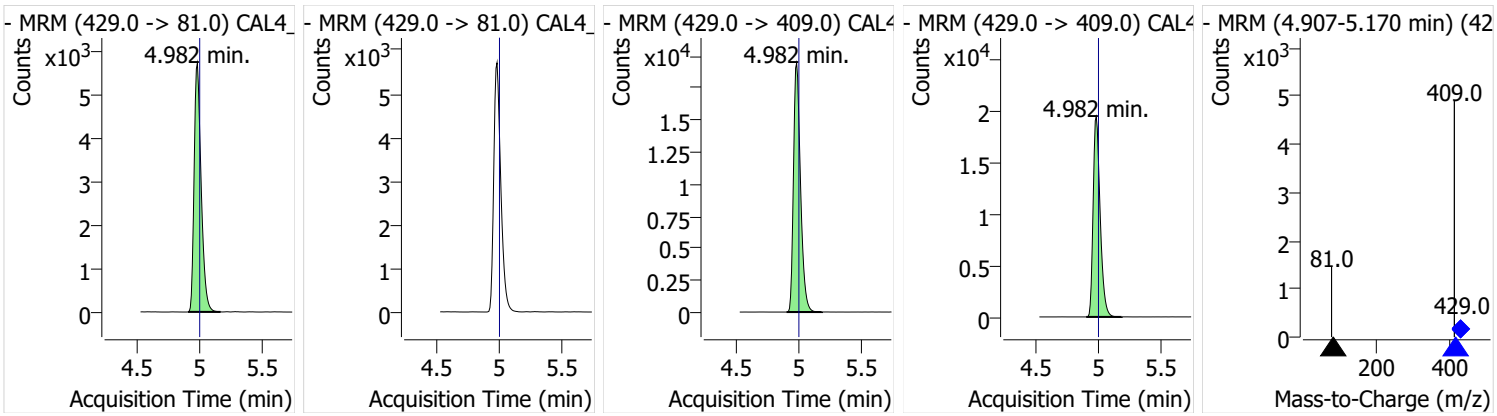
13C2-8:2FTS



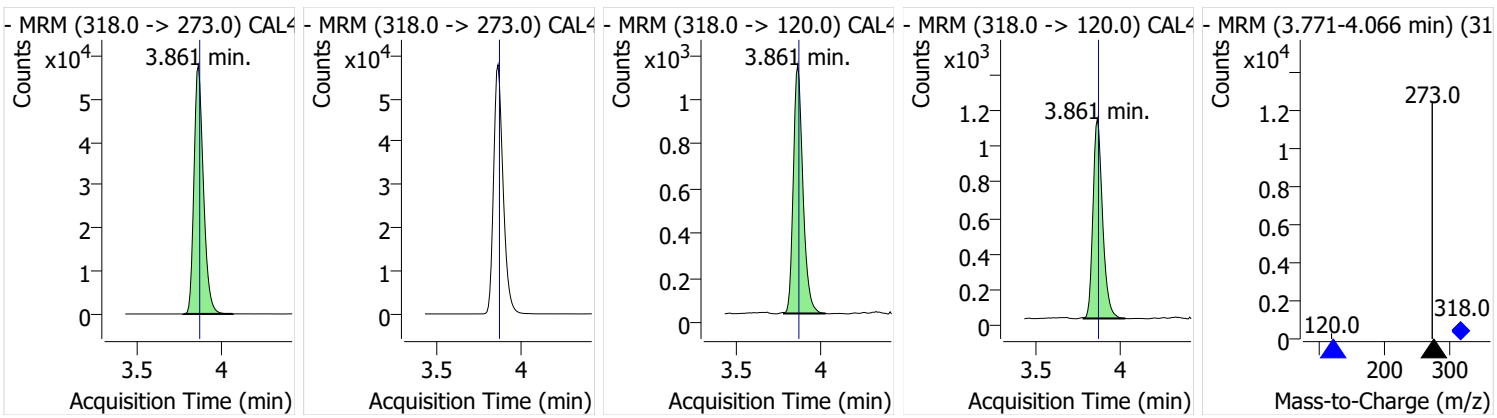
13C2-4:2FTS



13C2-6:2FTS



13C5-PFHxA



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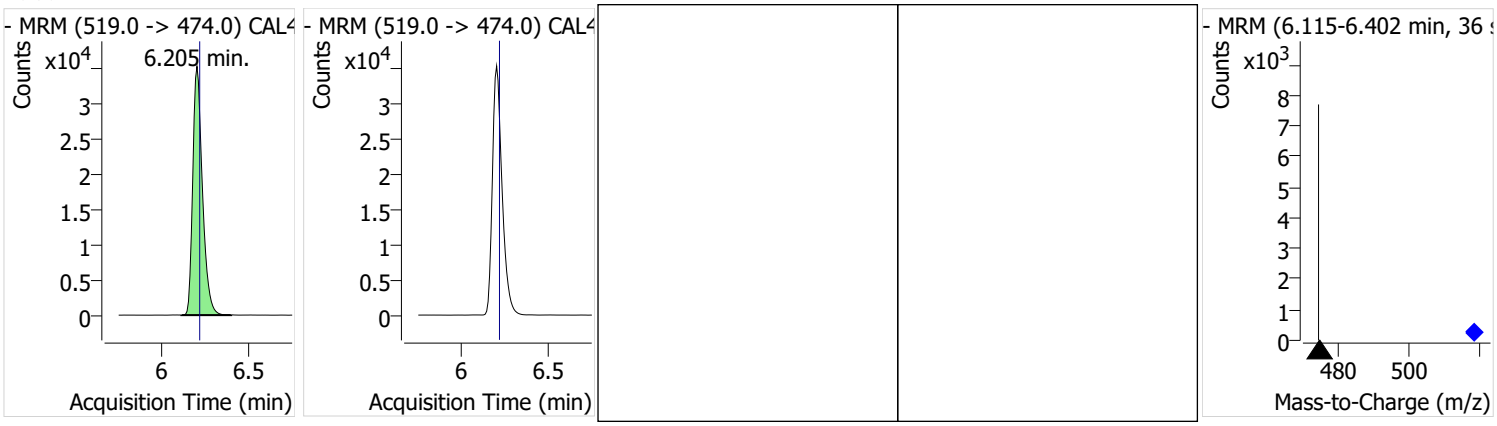

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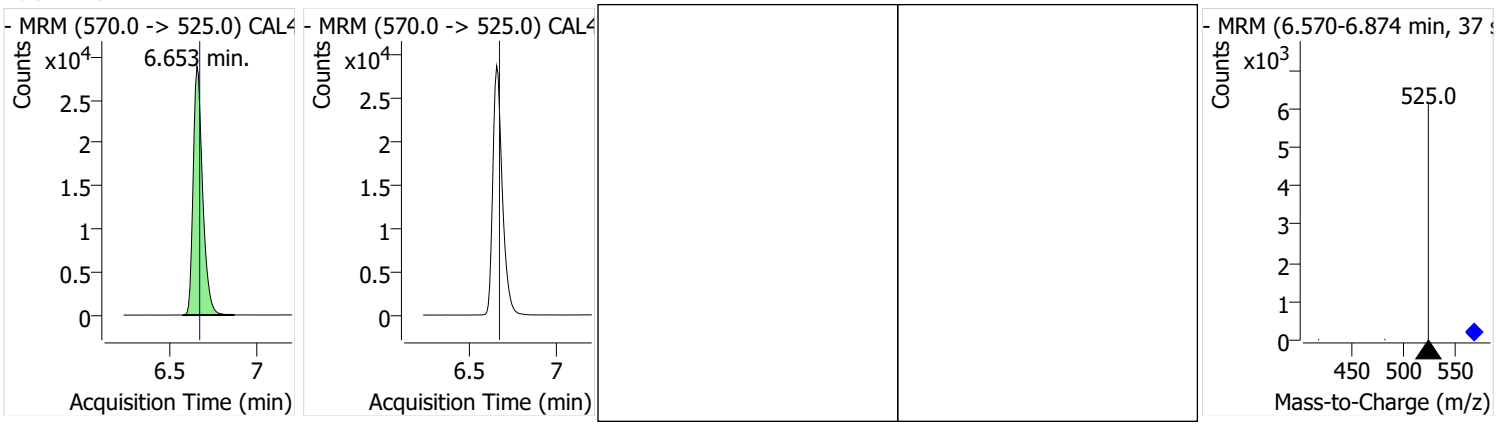
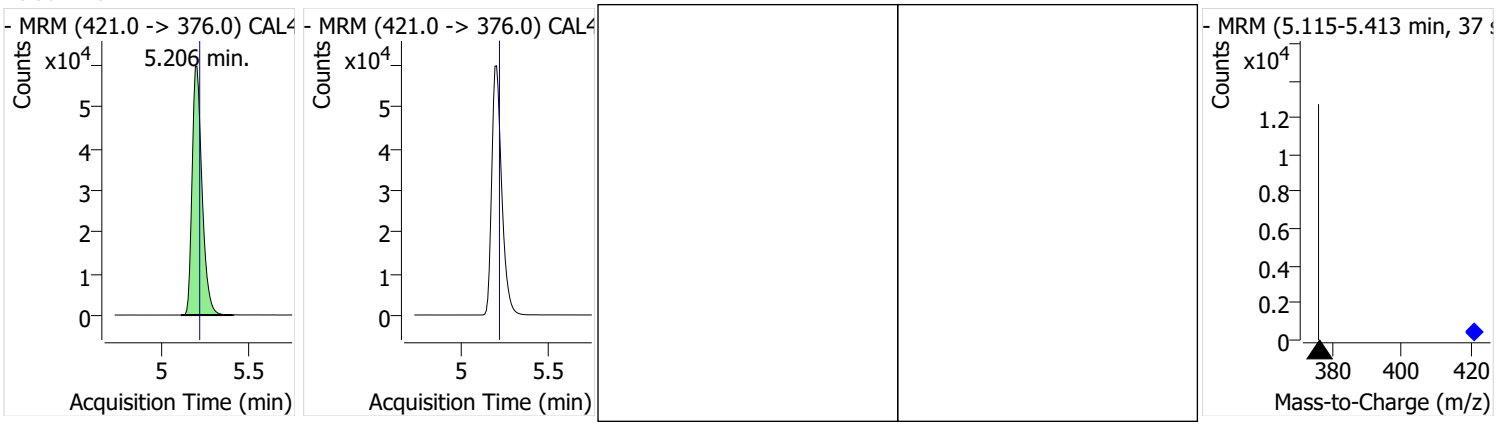
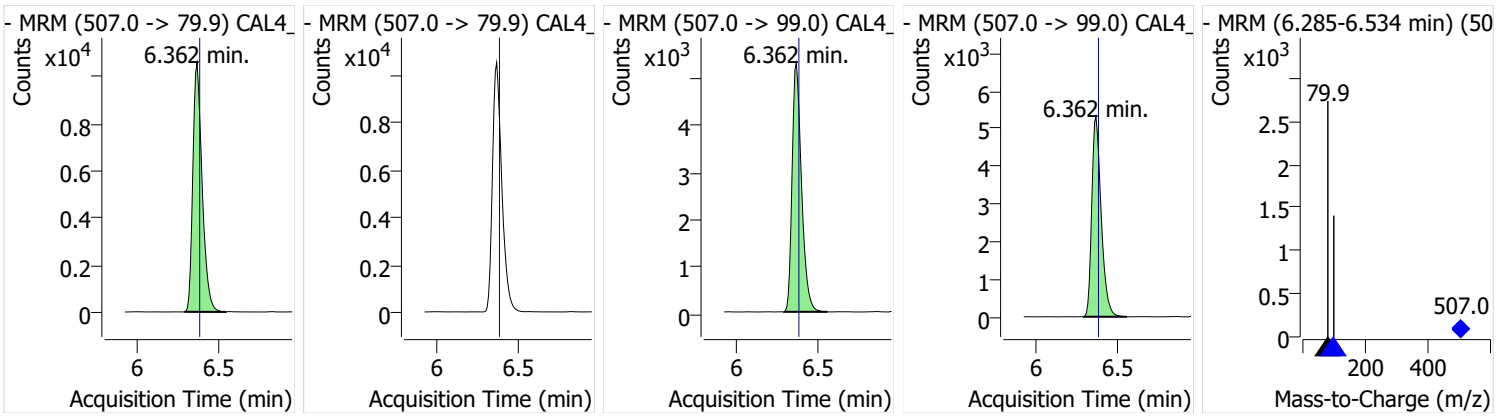


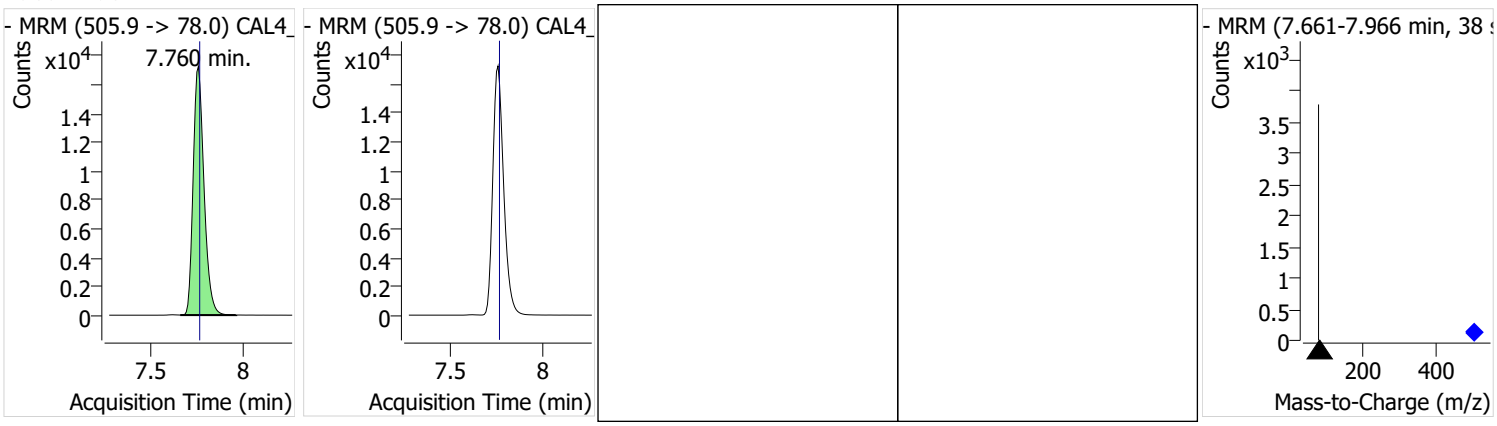
13C8-PFOA



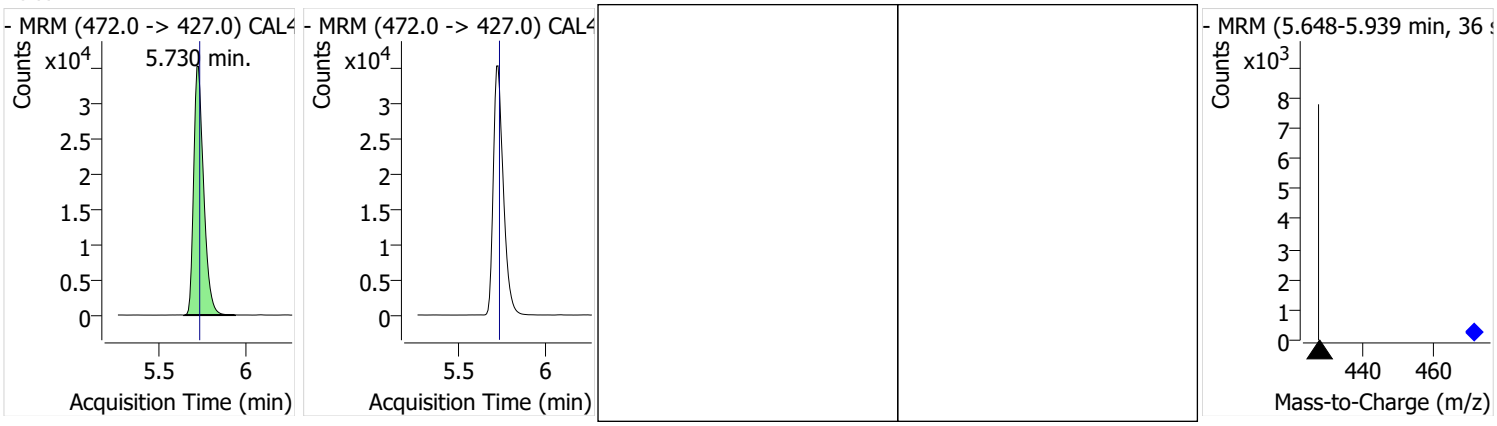
13C8-PFOS



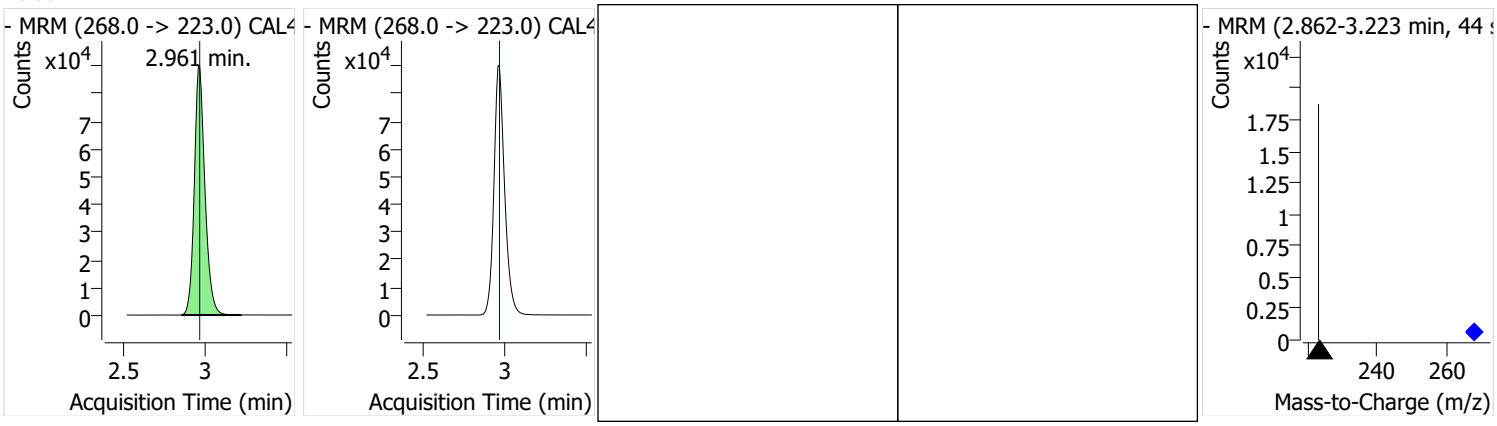
13C8-PFOSA



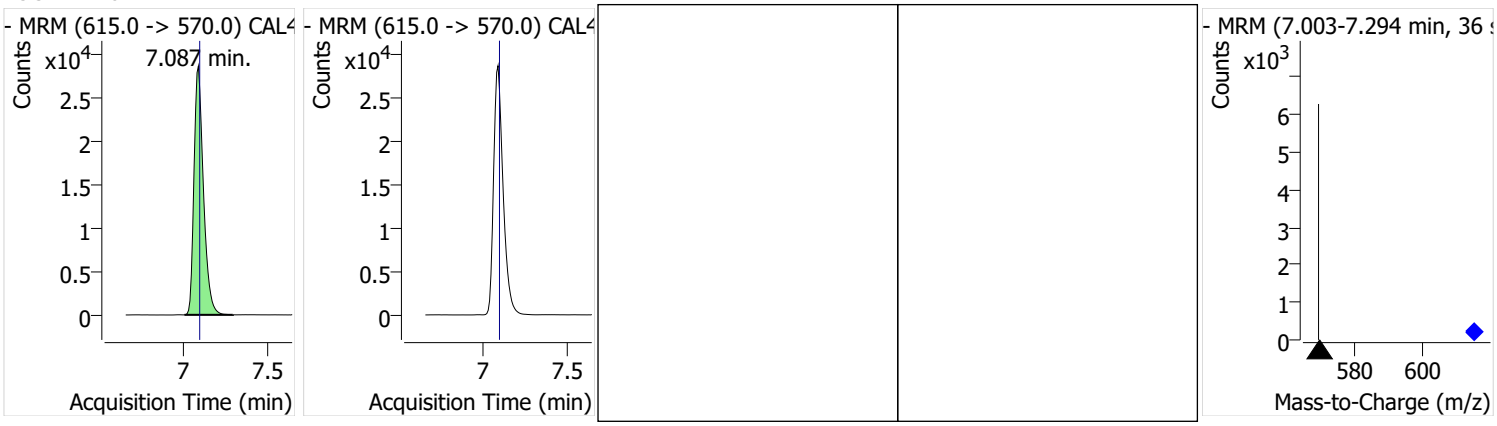
13C9-PFNA



13C5-PFPeA

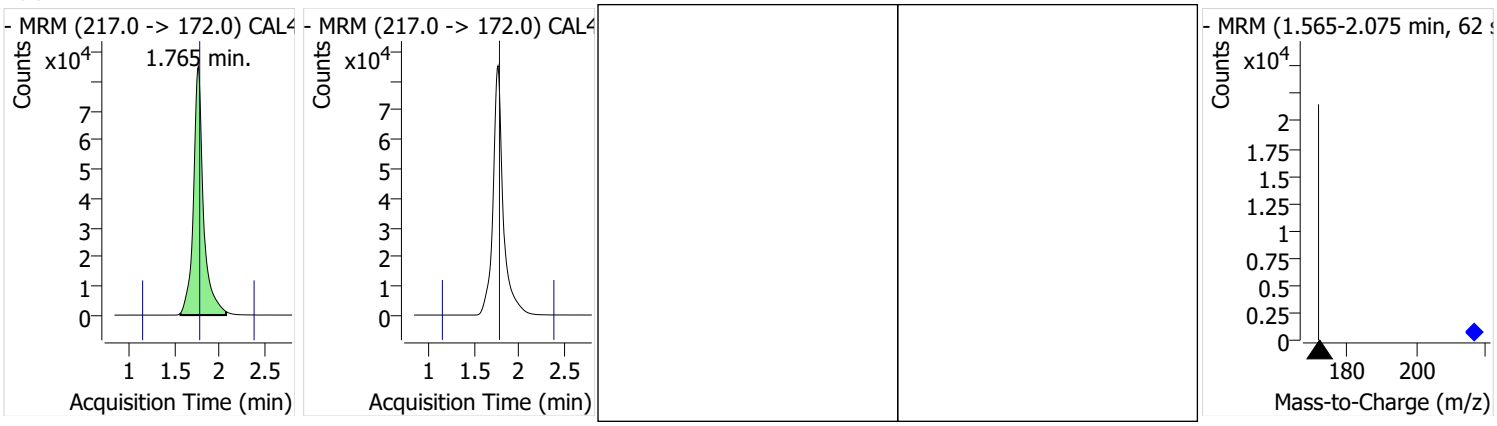


13C2-PFDoA

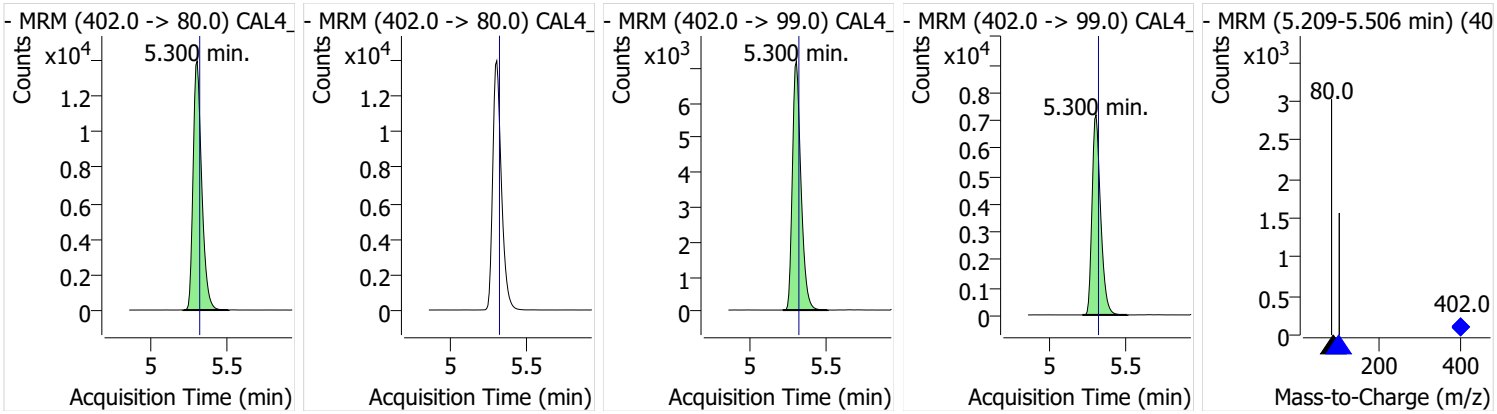


13C4-PFHpA

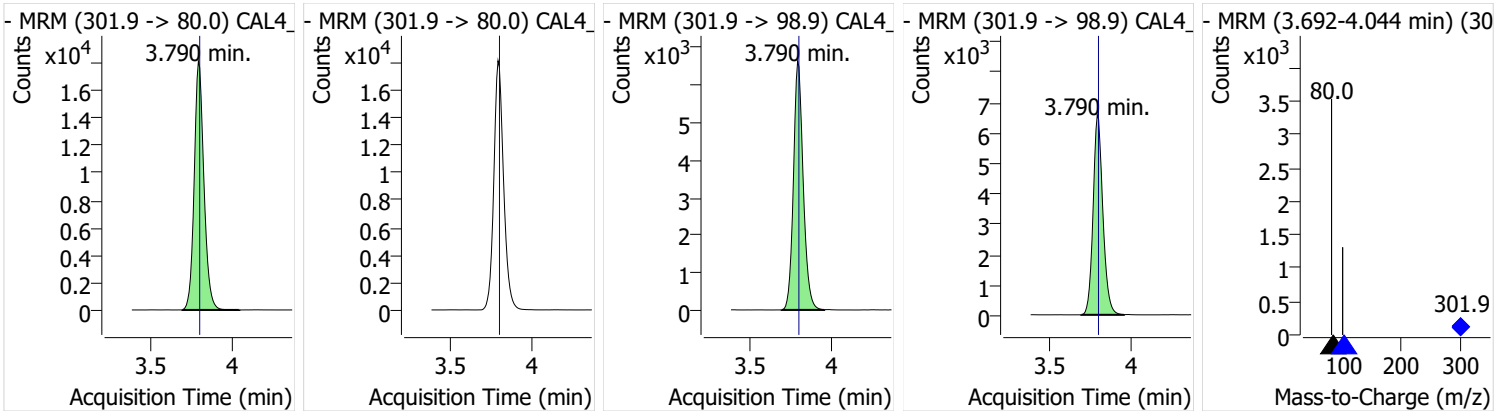
13C4-PFBA



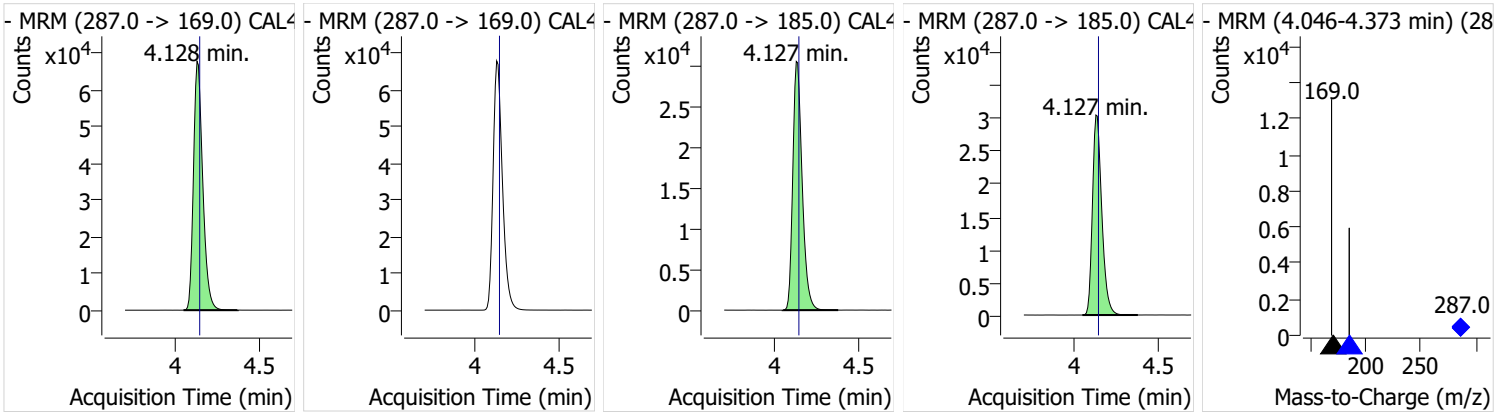
13C3-PFHxS



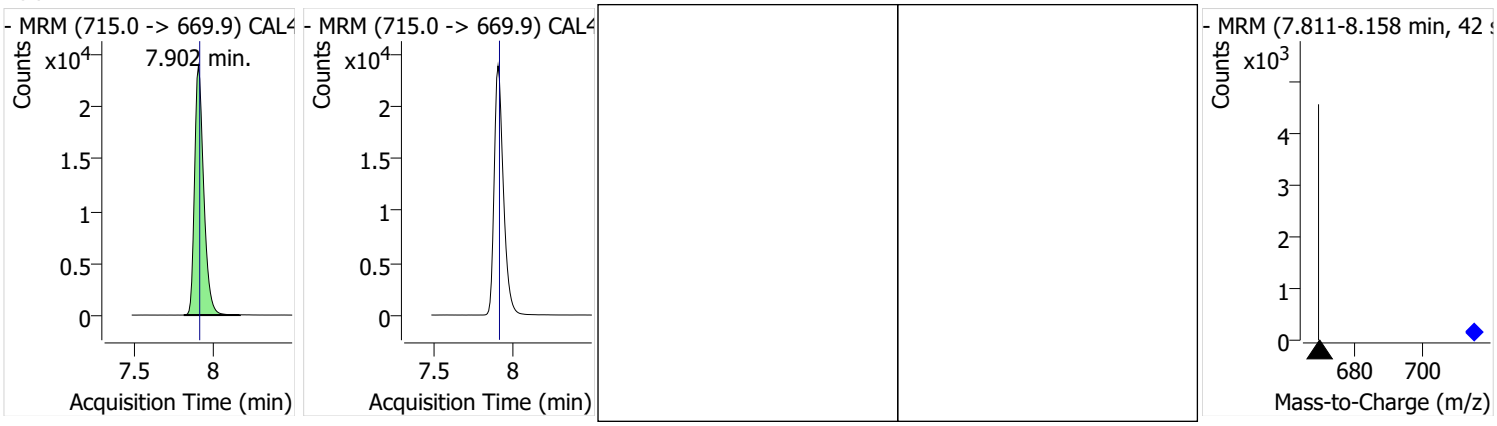
13C3-PFBS



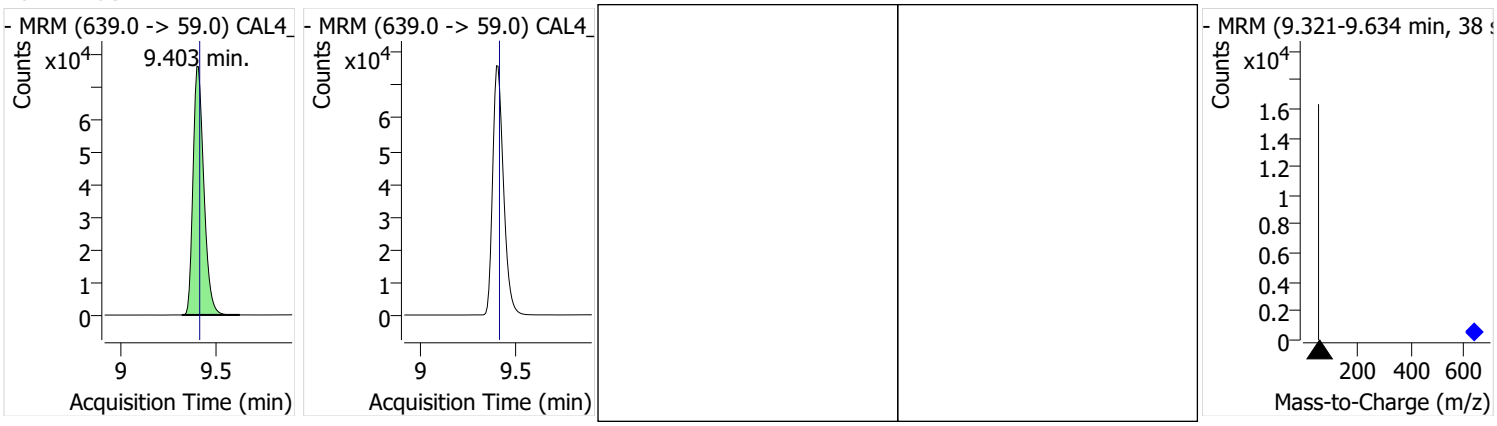
13C3-HFPODA



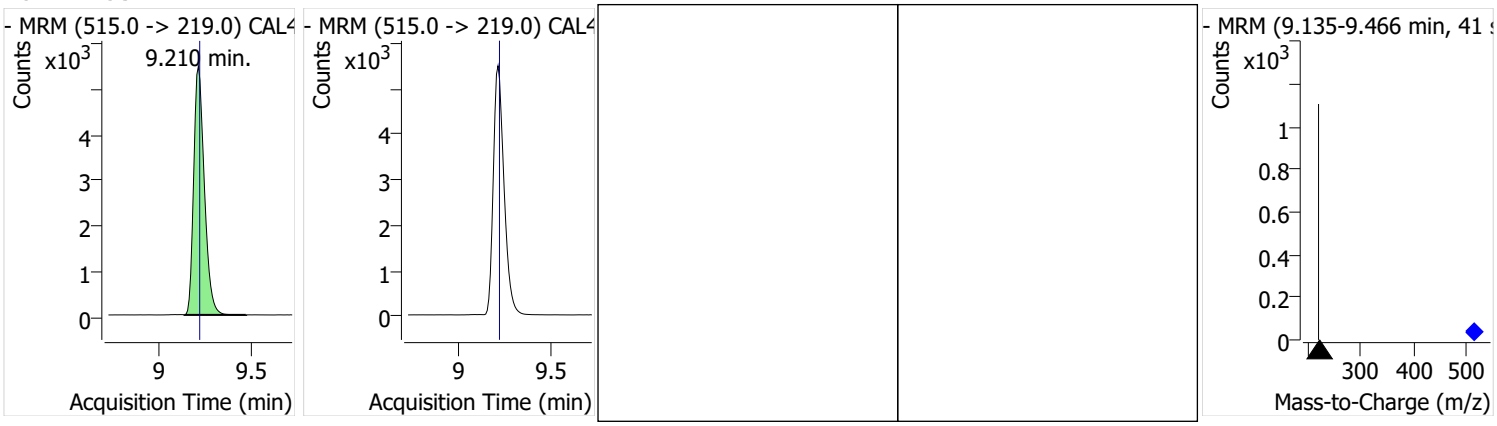
13C2-PFTeDA



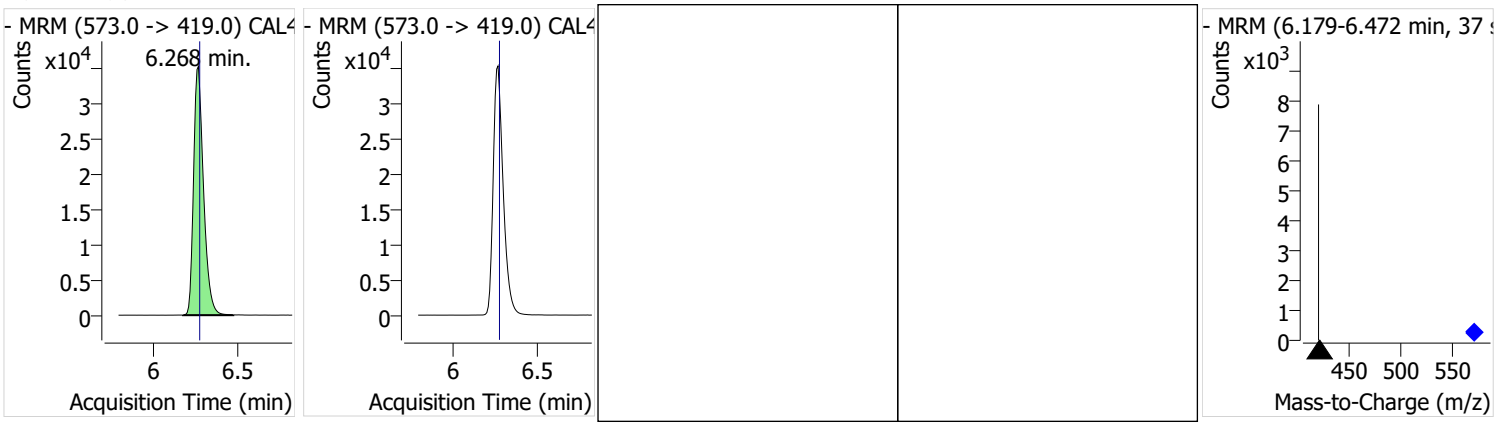
D9-NEtFOSE



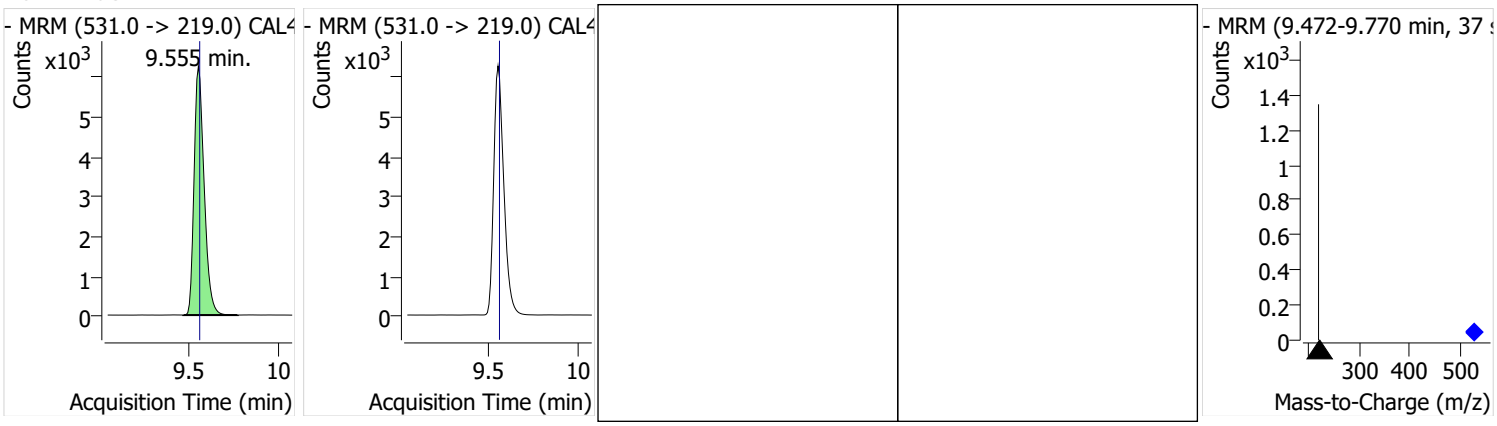
D3-NMeFOSA



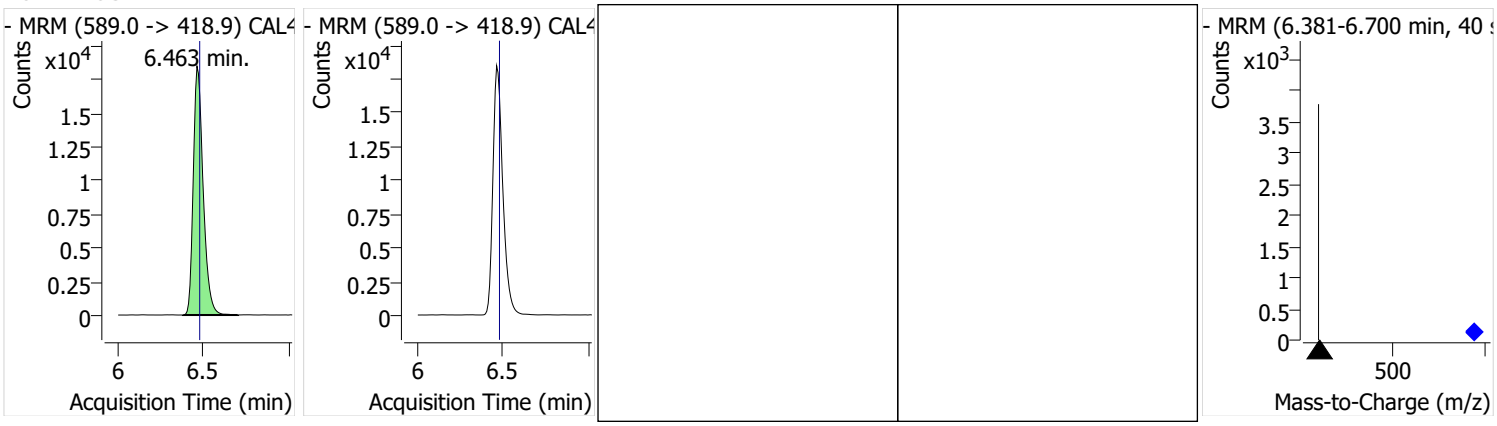
D3-NMeFOSAA



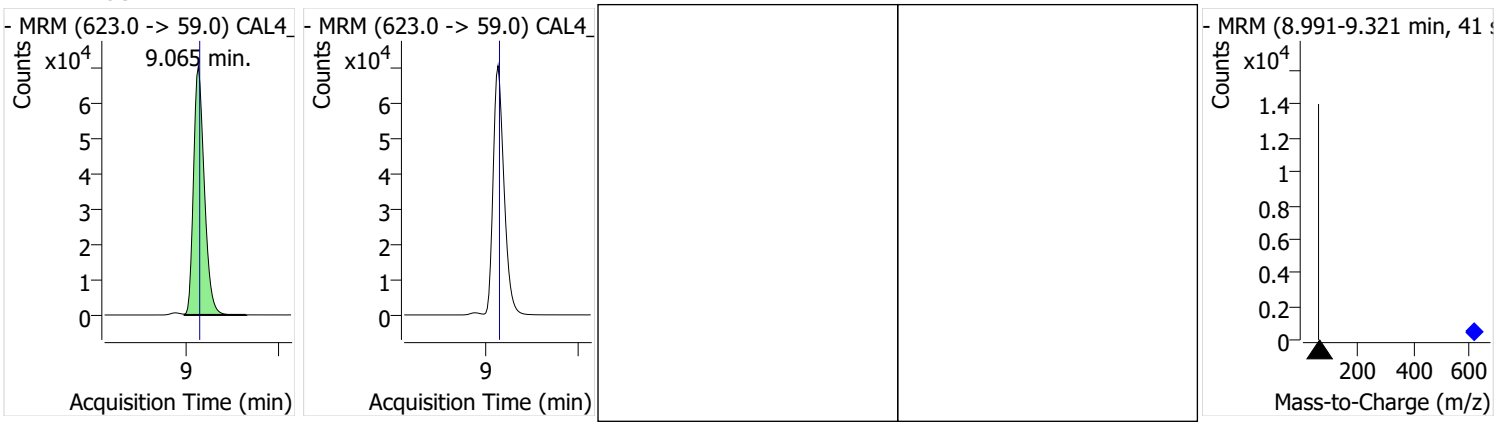
D5-NEtFOSA



D5-NEtFOSAA



D7-NMeFOSE



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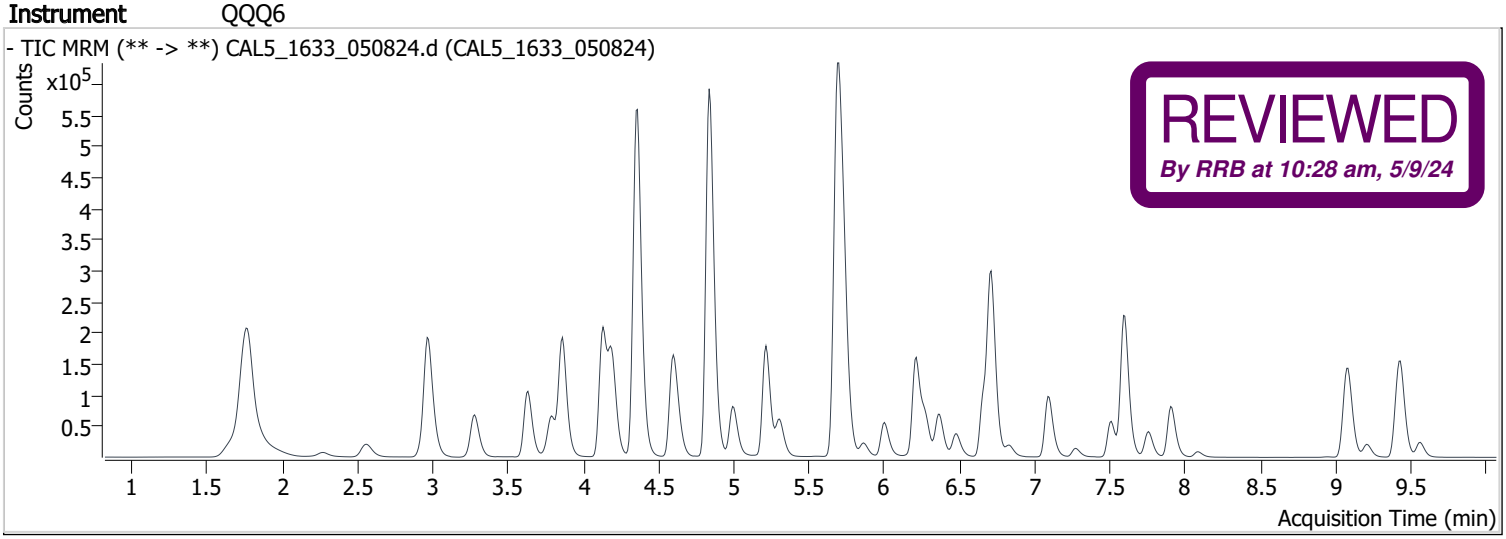
Acq. Time	5/8/2024 7:19 PM	**Data File**	CAL5_1633_050824.d
Sample Type	Cal	**Sample Name**	CAL5_1633_050824
Dilution	1	**Acq. Method**	1633_ACQUISITION_01.m
Sample Comment	E#24E0158	**Processing method**	1633_042924.m
Instrument	QQQ6		



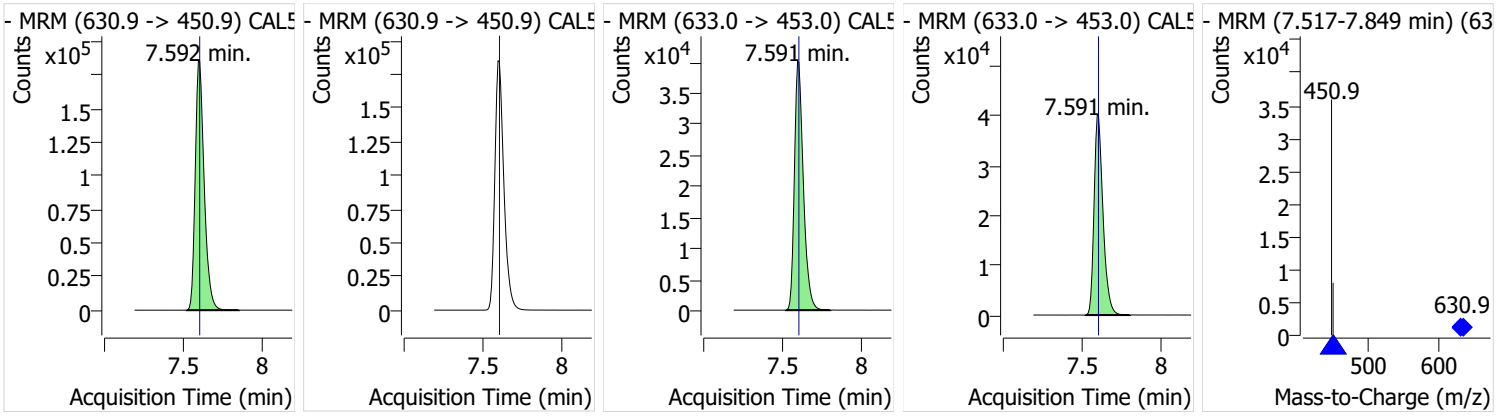
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
11Cl-PF3OUdS	7.592	730349	64029.09		13C3-HFPODA - ISTD	4.136	287101	8.6202	ng/ml			
633.0 -> 453.0			31387.57	21.6								
3:3FTCA	2.557	74862	21542.85		13C5-PFPeA - ISTD	2.961	442868	23.7826	ng/ml			
241.0 -> 117.0			2976.27	48.3								
4:2FTS	3.631	200783	49136.68		13C2-4:2FTS - ISTD	3.630	37123	9.2656	ng/ml			
327.0 -> 80.9			17614.83	38.6								
5:3FTCA	4.359	1169980	198268.48		13C5-PFHxA - ISTD	3.861	242691	120.9853	ng/ml			
341.0 -> 217.0			124074.39	91.6								
6:2FTS	4.991	147028	28473.97		13C2-6:2FTS - ISTD	4.991	24988	8.6859	ng/ml			
427.0 -> 80.9			17950.14	32.8								
7:3FTCA	5.691	1333725	34949.36		13C5-PFHxA - ISTD	3.861	242691	117.1106	ng/ml			
441.0 -> 317.0			13432.92	88.4								
8:2FTS	6.000	96633	1381401.05		13C2-8:2FTS - ISTD	6.000	19257	9.8299	ng/ml			
527.0 -> 81.0			25364.58	40.8								
9Cl-PF3ONS	6.712	819381	35717.23		13C3-HFPODA - ISTD	4.136	287101	8.6481	ng/ml			
533.0 -> 353.0			11199.68	30.3								
ADONA	4.838	1694172	33128.19		13C3-HFPODA - ISTD	4.136	287101	7.9420	ng/ml			
377.0 -> 85.1			26932.91	35.8								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA	4.137	240047	27892.75		13C3-HFPODA - ISTD	4.136	287101	9.0857	ng/ml			
285.0 -> 184.9			5502.86	52.4								
NEtFOSA	9.565	31727	16946.80		D5-NEtFOSA - ISTD	9.555	25747	2.3719	ng/ml			
526.0 -> 219.0			18967.00	97.1								
NEtFOSAA	6.480	46978	5243.03		D5-NEtFOSAA - ISTD	6.471	78385	2.4758	ng/ml	✔	3	AMS 05/09/24
584.0 -> 526.0			3147.24	65.6								
NEtFOSE	9.436	364668	267191.75		D9-NEtFOSE - ISTD	9.411	321305	25.4036	ng/ml			
NFDHA	3.775	40011	6317.33		13C5-PFHxA - ISTD	3.861	242691	4.8768	ng/ml			
295.0 -> 85.0			2991.44	33.8								
NMeFOSA	9.211	28301	19317.27		D3-NMeFOSA - ISTD	9.210	24013	2.4332	ng/ml			
512.0 -> 219.0			18150.79	91.2								
NMeFOSAA	6.277	31574	2328.53		D3-NMeFOSAA - ISTD	6.268	154132	2.4157	ng/ml	✔	3	AMS 05/09/24
570.0 -> 418.9			1869.46	66.2								
NMeFOSE	9.082	326317	204924.69		D7-NMeFOSE - ISTD	9.065	296760	25.4666	ng/ml			
PFBA	1.762	631906	10043.08		13C4-PFBA - ISTD	1.765	720778	9.4977	ng/ml			
PFBS	3.799	84854	7413.34		13C3-PFBS - ISTD	3.790	81333	2.0901	ng/ml			
298.9 -> 98.8			7244.21	39.0								
PFDA	6.214	271793	6262.04		13C6-PFDA - ISTD	6.213	142745	2.3105	ng/ml			
513.0 -> 219.0			17630.25	16.7								
PFDoA	7.087	236058	6328.52		13C2-PFDoA - ISTD	7.087	120818	2.3572	ng/ml			
613.0 -> 319.0			7866.12	12.8								
PFDoS	8.086	20460	16544.53		13C8-PFOS - ISTD	6.370	42582	2.4110	ng/ml			
698.9 -> 99.0			11785.99	63.3								
PFDS	7.271	33495	7728.10		13C8-PFOS - ISTD	6.370	42582	2.4144	ng/ml			
599.0 -> 98.8			11373.37	57.0								
PFEESA	4.189	537543	44211.34		13C5-PFHxA - ISTD	3.861	242691	4.4009	ng/ml			
315.0 -> 83.0			6110.93	7.0								
PFHpA	4.599	277508	5924.19		13C4-PFHpA - ISTD	4.599	274507	2.4254	ng/ml			
362.9 -> 169.0			8614.85	17.2								
PFHpS	5.865	51898	7960.99		13C8-PFOS - ISTD	6.370	42582	2.3122	ng/ml			
449.0 -> 98.8			15309.05	51.7								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFHxA	3.863	237902	5411.08		13C5-PFHxA - ISTD	3.861	242691	2.4111	ng/ml			
313.0 -> 118.9			1365.05	3.4								
PFHxS	5.309	55223	8852.50		13C3-PFHxS - ISTD	5.308	58673	2.0848	ng/ml	✔	3	AMS 05/09/24
398.9 -> 99.0			4841.83	46.3								
PFMBA	3.280	289535	81536.12		13C5-PFPeA - ISTD	2.961	442868	4.7484	ng/ml			
PFMPA	2.267	44628	8992.71		13C5-PFPeA - ISTD	2.961	442868	4.6042	ng/ml			
PFNA	5.730	289748	6741.33		13C9-PFNA - ISTD	5.730	153592	2.3461	ng/ml			
463.0 -> 219.0			9157.68	21.0								
PFNS	6.834	41691	13957.94		13C8-PFOS - ISTD	6.370	42582	2.4050	ng/ml			
549.0 -> 98.8			4561.80	54.7								
PFOA	5.216	309372	3653.17		13C8-PFOA - ISTD	5.215	259437	2.3752	ng/ml			
413.0 -> 169.0			6377.17	24.0								
PFOS	6.372	47294	6042.82		13C8-PFOS - ISTD	6.370	42582	2.1369	ng/ml	✔	3	AMS 05/09/24
499.0 -> 99.0			5672.99	49.5								
PFOSA	7.761	81724	839446.42		13C8-PFOSA - ISTD	7.760	76009	2.4351	ng/ml			
497.9 -> 478.0			25874.53	3.1								
PFPeA	2.962	427865	21297.93		13C5-PFPeA - ISTD	2.961	442868	4.7836	ng/ml			
263.0 -> 69.0			459.40	0.3								
PFPeS	4.633	70939	9189.52		13C3-PFHxS - ISTD	5.308	58673	2.3332	ng/ml			
349.0 -> 98.9			7741.16	45.5								
PFTeDA	7.902	201829	10366.38		13C2-PFTeDA - ISTD	7.902	99121	2.5306	ng/ml			
713.0 -> 168.9			10193.60	7.9								
PFTrDA	7.508	203180	5232.10		13C2-PFDoA - ISTD	7.087	120818	2.3816	ng/ml			
663.0 -> 168.9			5557.49	12.5								
PFUnA	6.662	224860	6865.67		13C7-PFUnA - ISTD	6.661	121050	2.3113	ng/ml			
563.0 -> 269.1			8157.53	17.6								
TDCA	6.233	10854	1544.79					-	ng/ml			
499.0 -> 99.0			790.97	25.2								
13C2-8:2FTS	6.000	19257	5865.93		18O2-PFHxS	5.308	55609	5.2682	ng/ml			
529.0 -> 509.0			218981.94	303.6								
13C2-4:2FTS	3.630	37123	6967.12		18O2-PFHxS	5.308	55609	5.5783	ng/ml			
329.0 -> 309.0			36131.85	278.2								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
13C2-6:2FTS	4.991	24988	4950.63		18O2-PFHxS	5.308	55609	5.5568	ng/ml			
429.0 -> 409.0			74022.92	361.5								
13C5-PFHxA	3.861	242691	23642.35		13C2-PFHxA	3.861	225690	2.6095	ng/ml			
318.0 -> 120.0			690.39	1.9								
13C6-PFDA	6.213	142745	14231.11		13C2-PFDA	6.214	137876	1.3121	ng/ml			
13C7-PFUnA	6.661	121050	14057.53		13C2-PFDA	6.214	137876	1.3745	ng/ml			
13C8-PFOA	5.215	259437	102054.54		13C4-PFOA	5.215	36036	2.6260	ng/ml			
13C8-PFOS	6.370	42582	7466.90		13C4-PFOS	6.371	47518	2.4926	ng/ml			
507.0 -> 99.0			11190.65	54.4								
13C8-PFOSA	7.760	76009	1077152.09		13C4-PFOS	6.371	47518	2.5298	ng/ml			
13C9-PFNA	5.730	153592	15137.58		13C5-PFNA	5.730	171694	1.3118	ng/ml			
13C5-PFPeA	2.961	442868	15718.91		13C2-PFHxA	3.861	225690	5.3134	ng/ml			
13C2-PFDoA	7.087	120818	5740.23		13C2-PFDA	6.214	137876	1.3291	ng/ml			
13C4-PFHpA	4.599	274507	20864.26		13C2-PFHxA	3.861	225690	2.6387	ng/ml			
13C4-PFBA	1.765	720778	140234.04		13C3-PFBA	1.760	320517	10.3577	ng/ml			
13C3-PFHxS	5.308	58673	22404.55		18O2-PFHxS	5.308	55609	2.5836	ng/ml			
402.0 -> 99.0			8542.05	49.0								
13C3-PFBS	3.790	81333	19278.05		18O2-PFHxS	5.308	55609	2.7061	ng/ml			
301.9 -> 98.9			12840.40	34.9								
13C3-HFPODA	4.136	287101	31233.94		13C2-PFHxA	3.861	225690	11.0364	ng/ml			
287.0 -> 185.0			7652.20	43.8								
13C2-PFTeDA	7.902	99121	11368.26		13C2-PFDA	6.214	137876	1.2664	ng/ml			
D9-NEtFOSE	9.411	321305	61250.04		13C4-PFOS	6.371	47518	25.7159	ng/ml			
D3-NMeFOSA	9.210	24013	10119.75		13C4-PFOS	6.371	47518	2.4917	ng/ml			
D3-NMeFOSAA	6.268	154132	8144.12		13C4-PFOS	6.371	47518	5.0071	ng/ml			
D5-NEtFOSA	9.555	25747	10995.56		13C4-PFOS	6.371	47518	2.5613	ng/ml			
D5-NEtFOSAA	6.471	78385	5797.58		13C4-PFOS	6.371	47518	5.0322	ng/ml			
D7-NMeFOSE	9.065	296760	87521.36		13C4-PFOS	6.371	47518	25.4149	ng/ml			

11Cl-PF3OUdS



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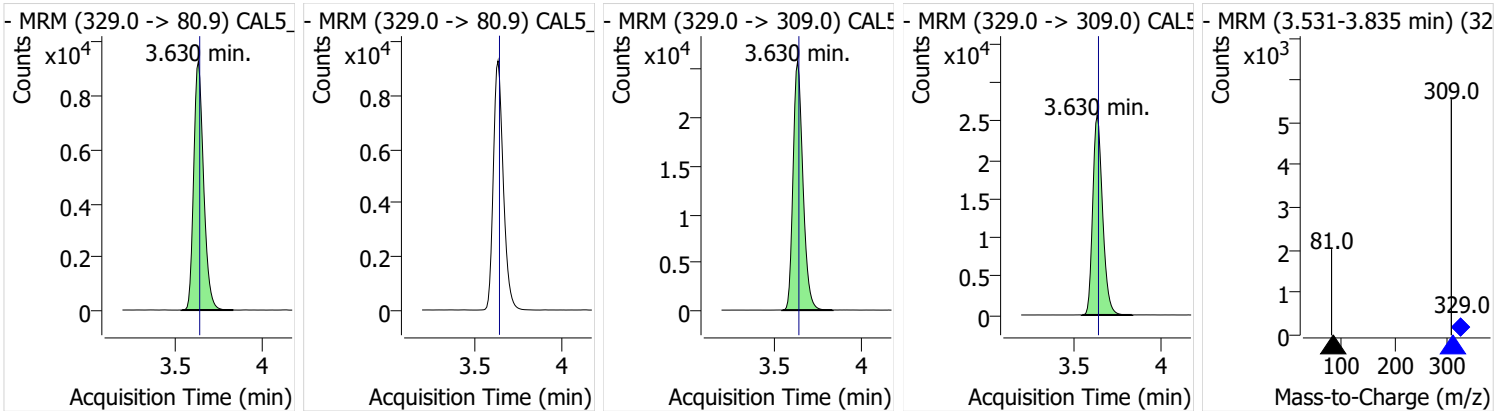
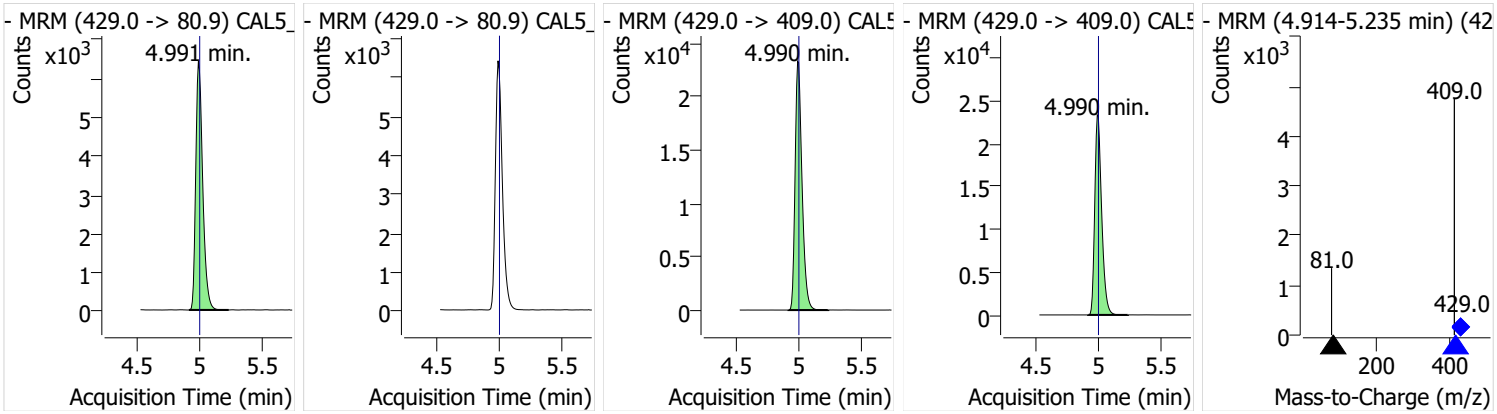
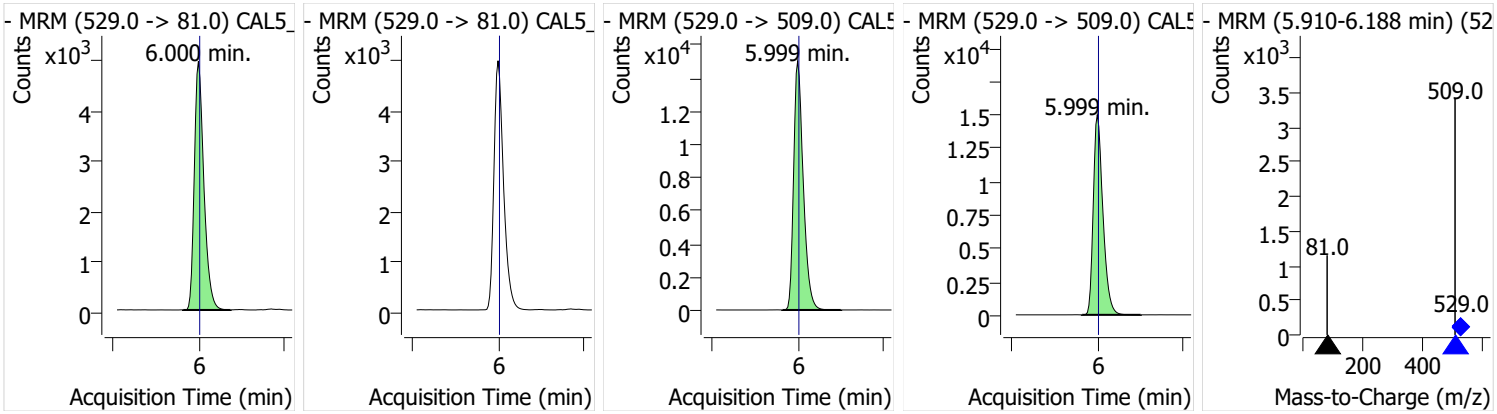


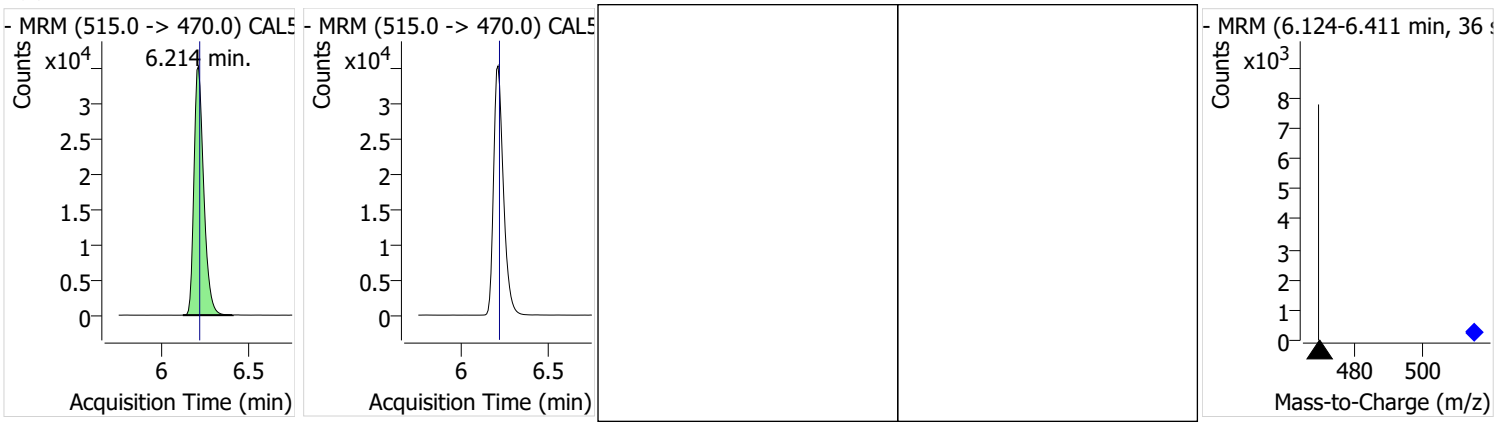
13C2-6:2FTS - ISTD



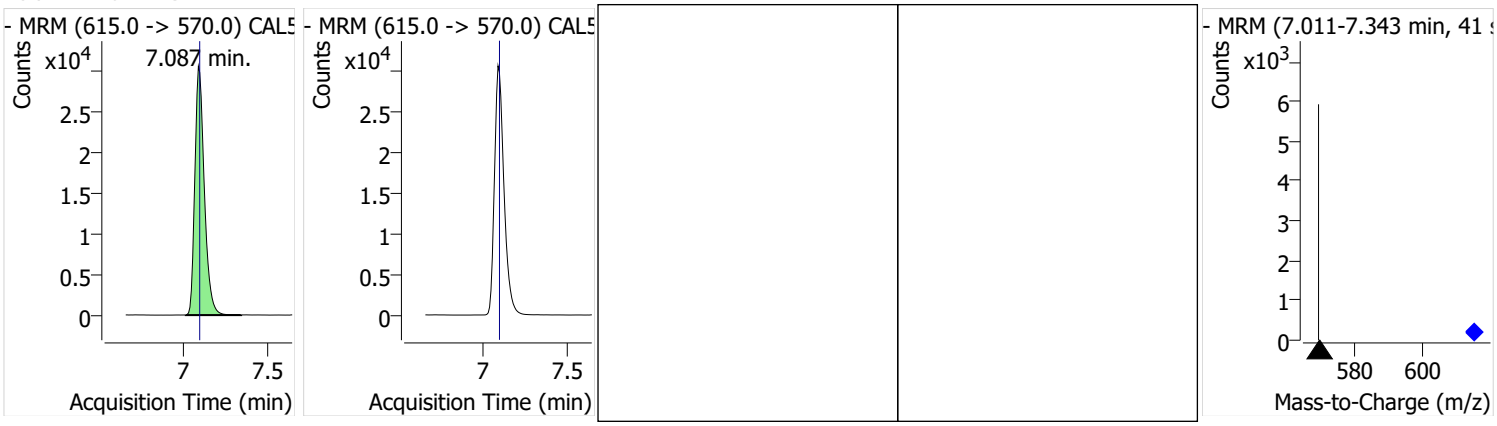
13C2-8:2FTS - ISTD



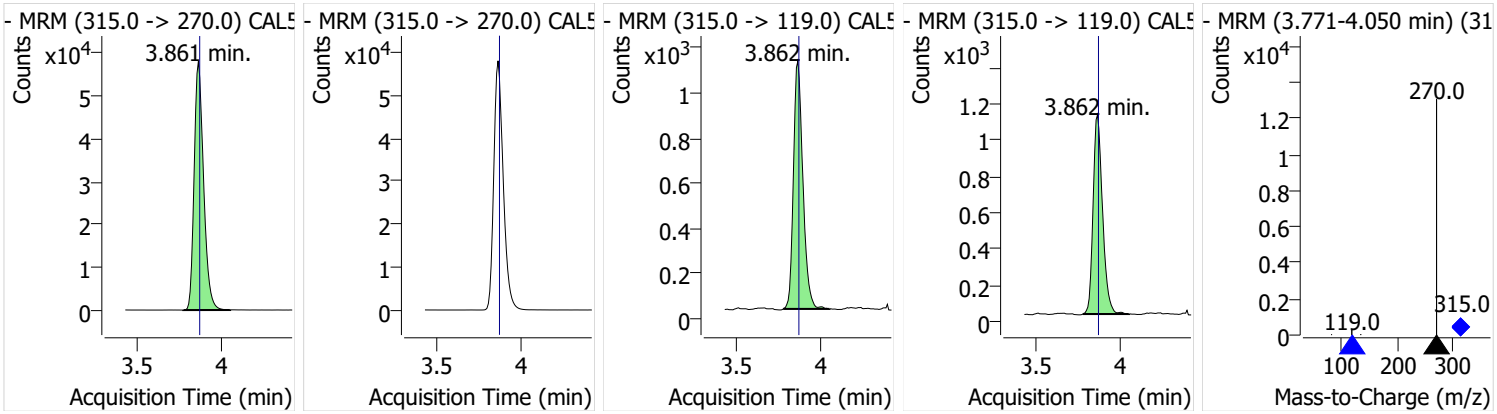
13C2-PFDA



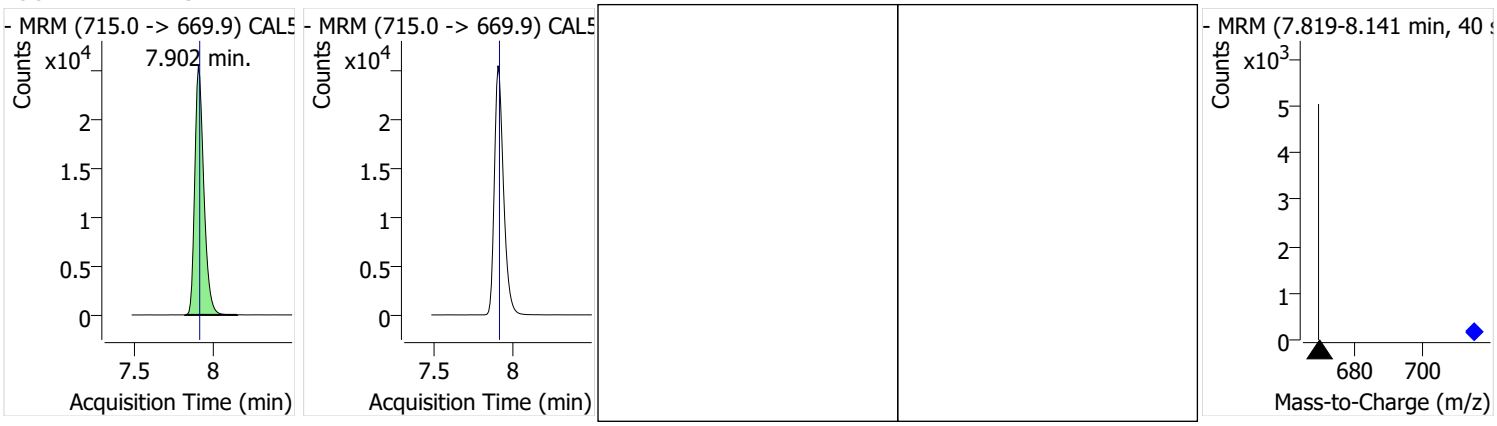
13C2-PFDoA - ISTD



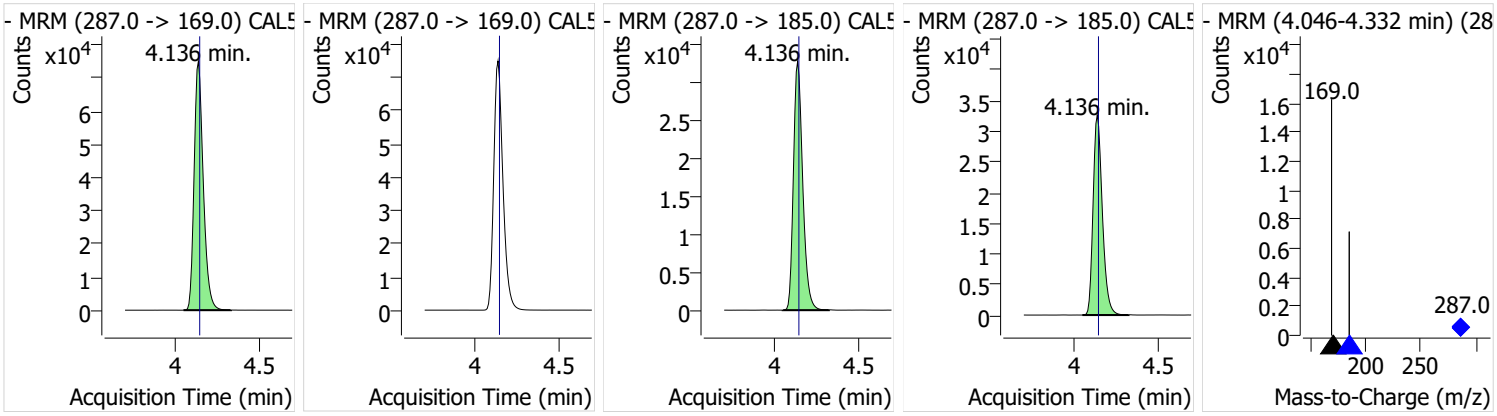
13C2-PFHxA



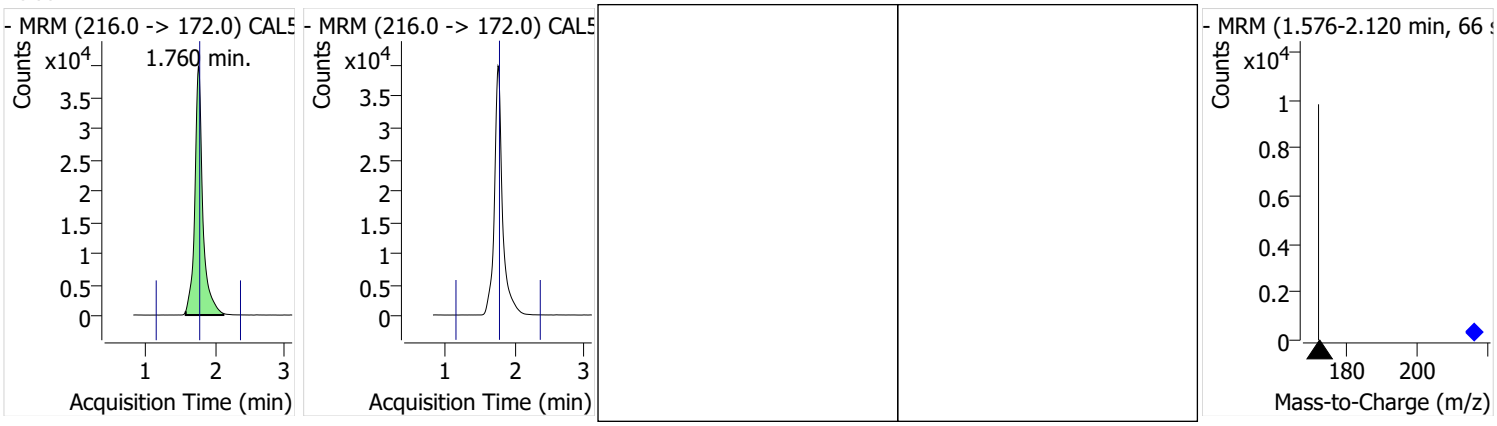
13C2-PFTeDA - ISTD



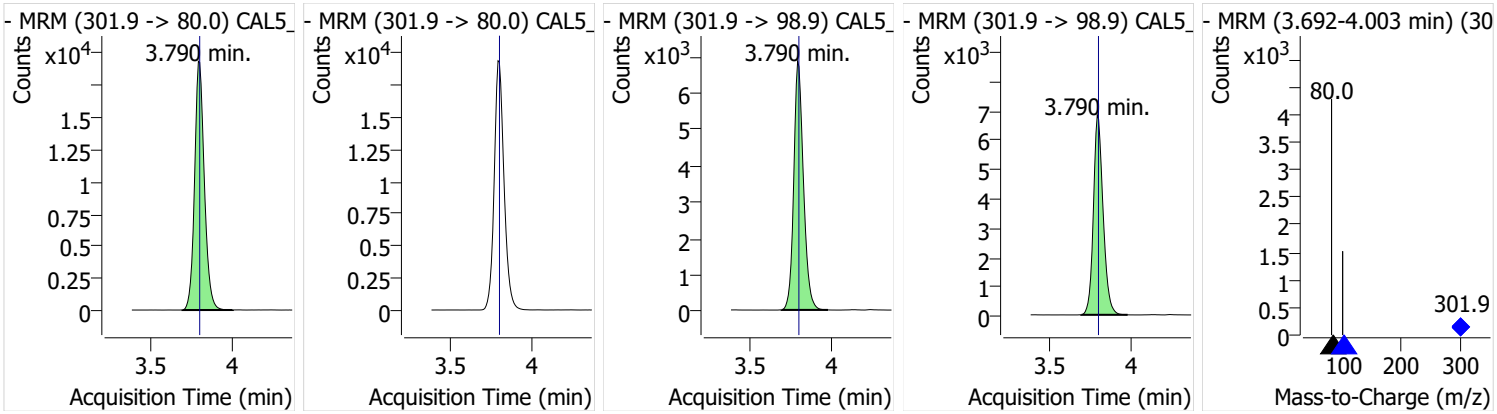
13C3-HFPODA - ISTD



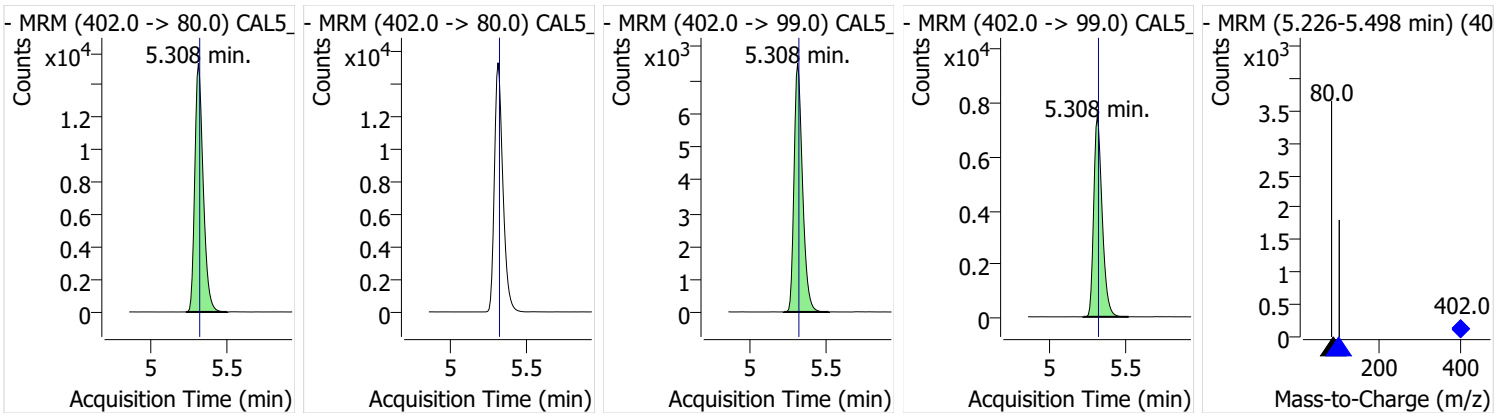
13C3-PFBA



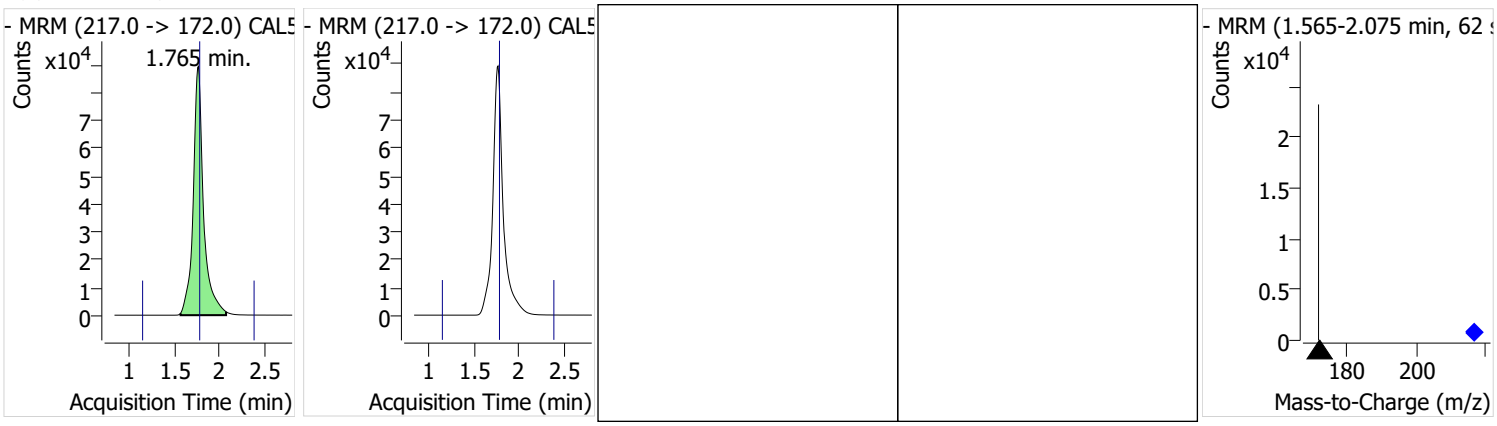
13C3-PFBS - ISTD



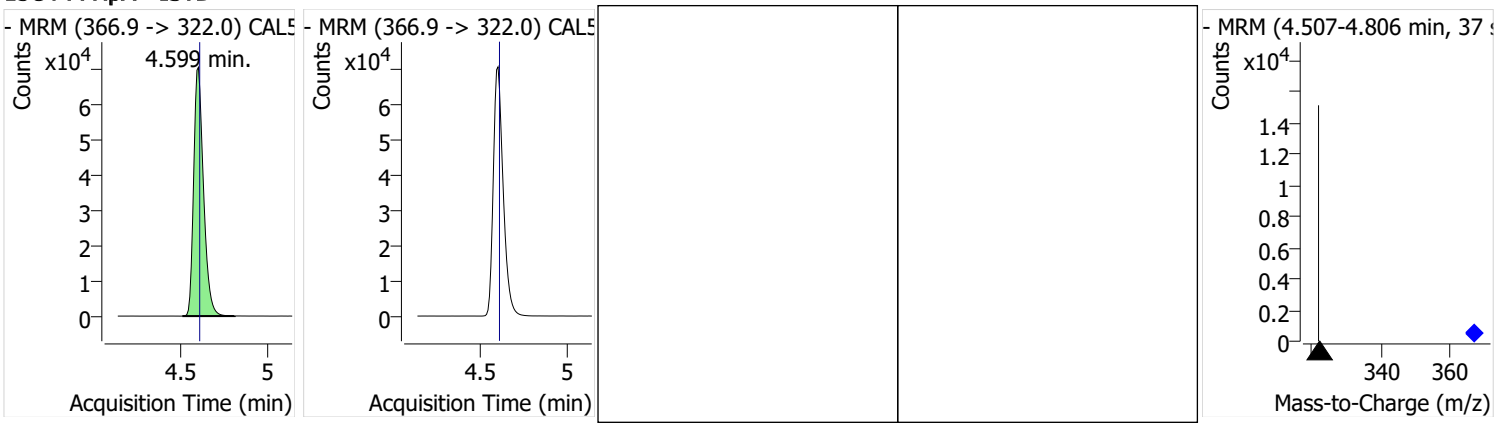
13C3-PFHxS - ISTD



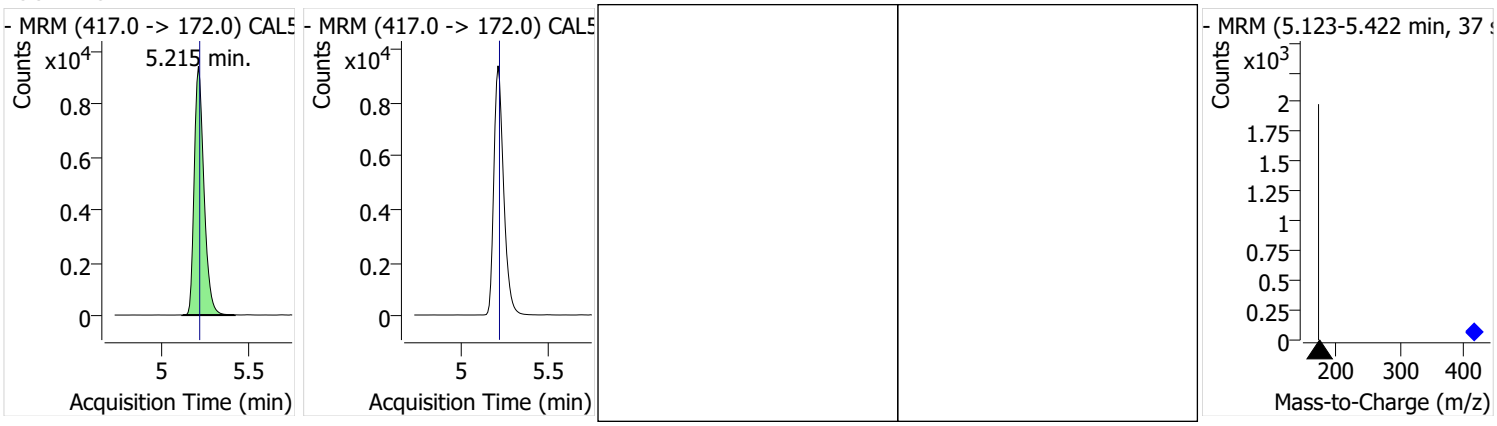
13C4-PFBA - ISTD



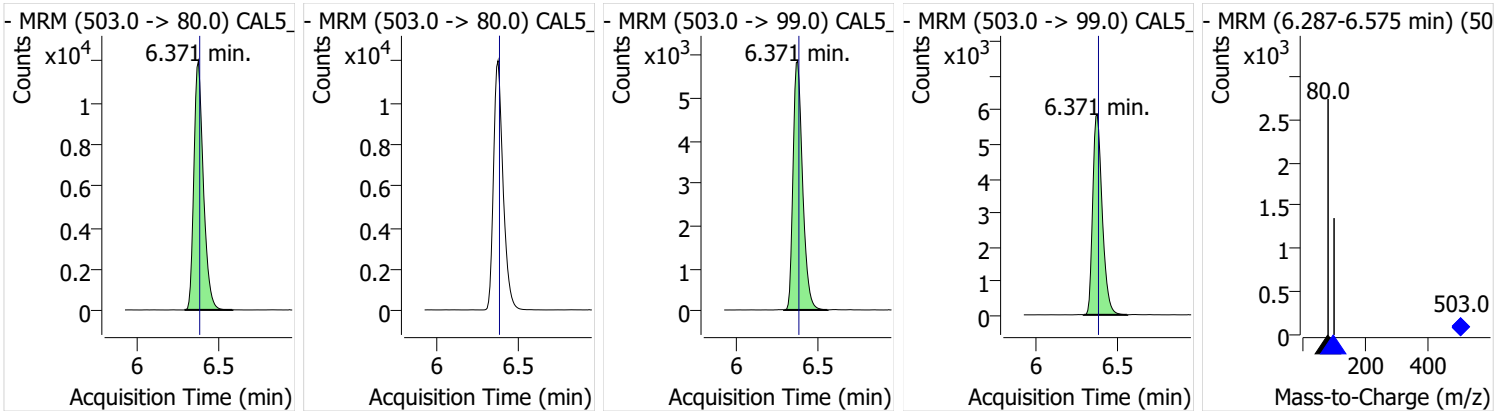
13C4-PFHpA - ISTD



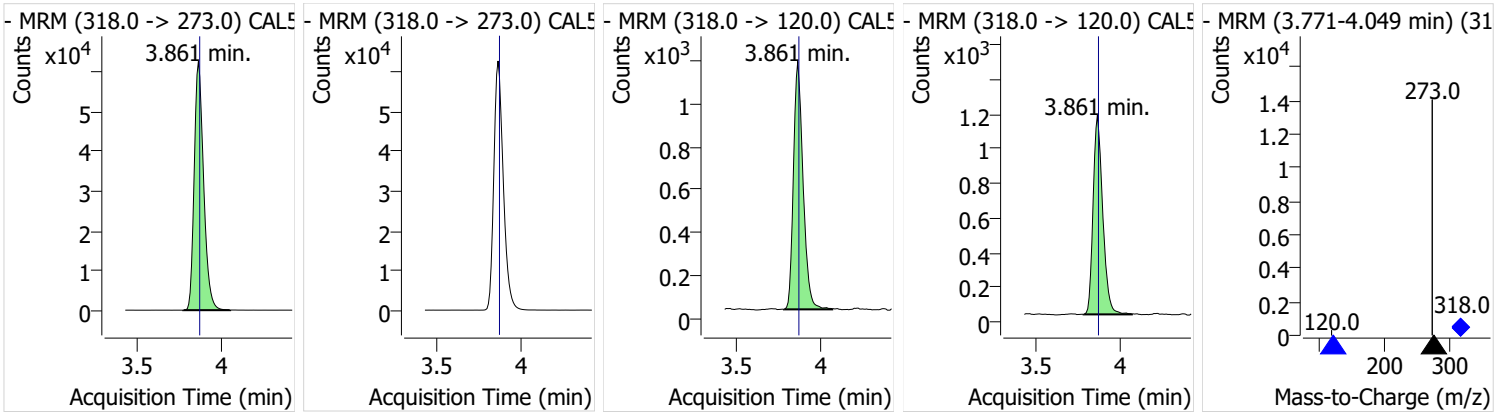
13C4-PFOA



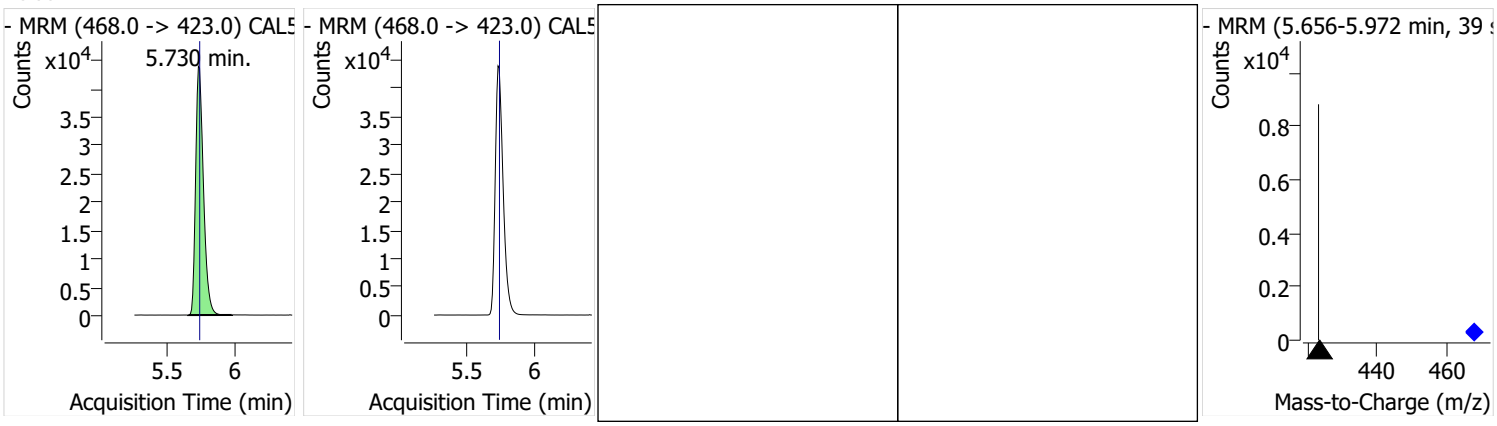
13C4-PFOS



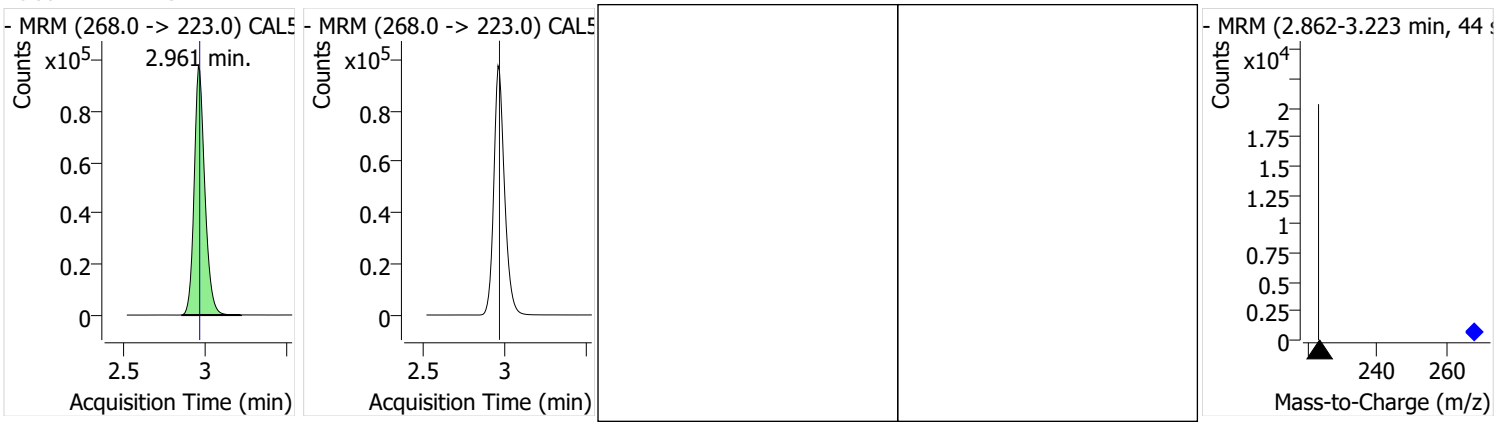
13C5-PFHxA - ISTD



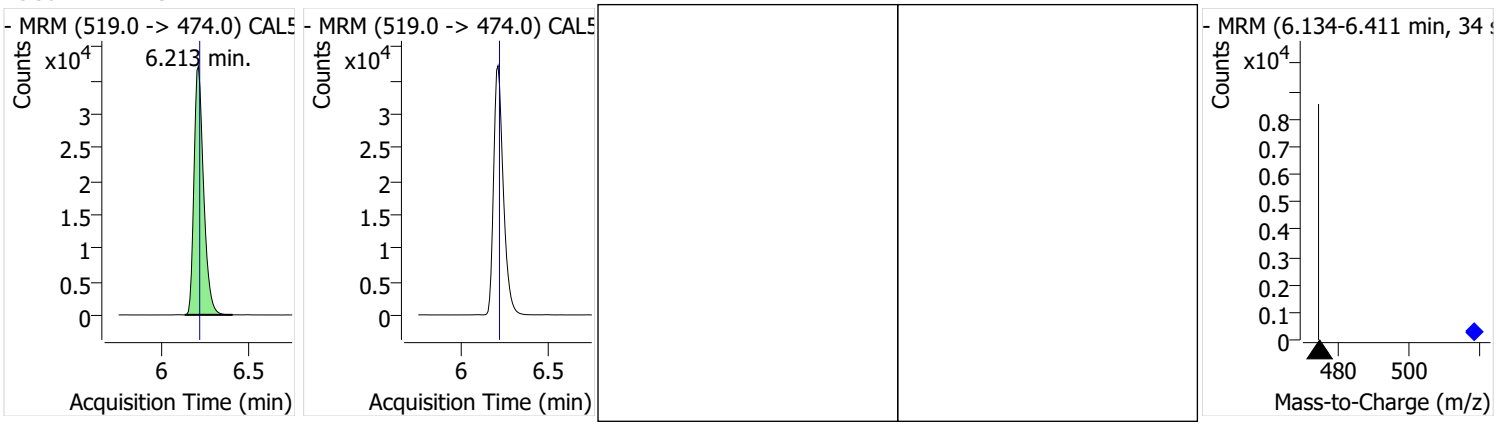
13C5-PFNA



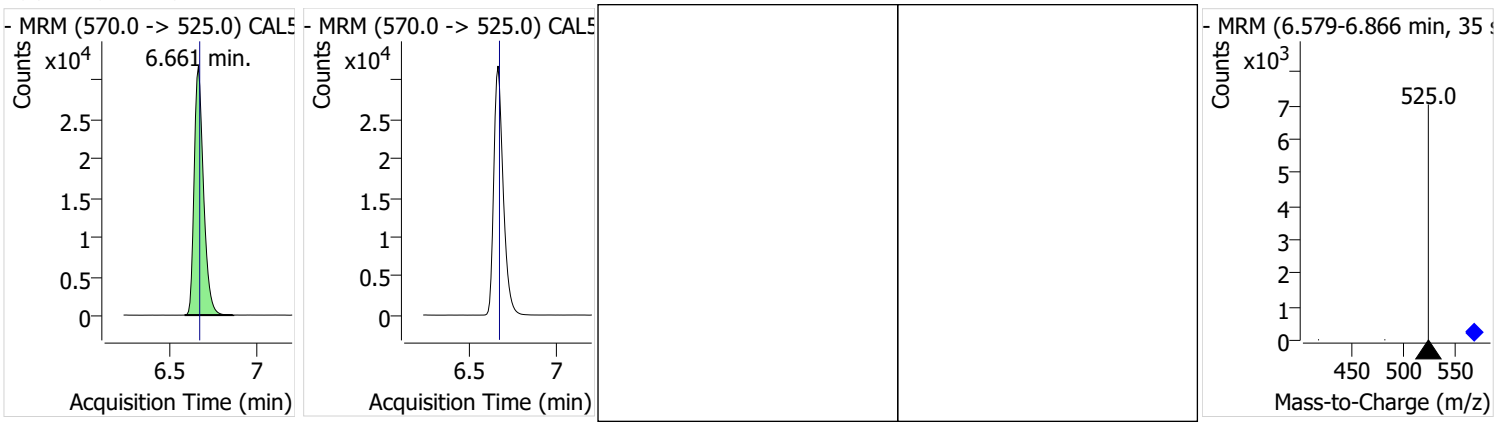
13C5-PFPeA - ISTD



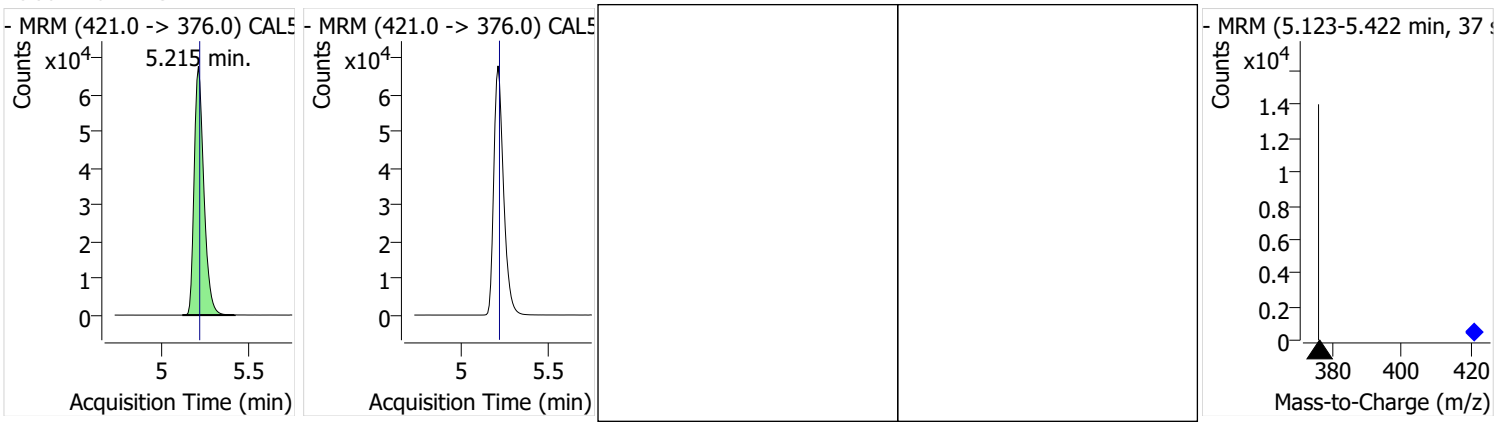
13C6-PFDA - ISTD



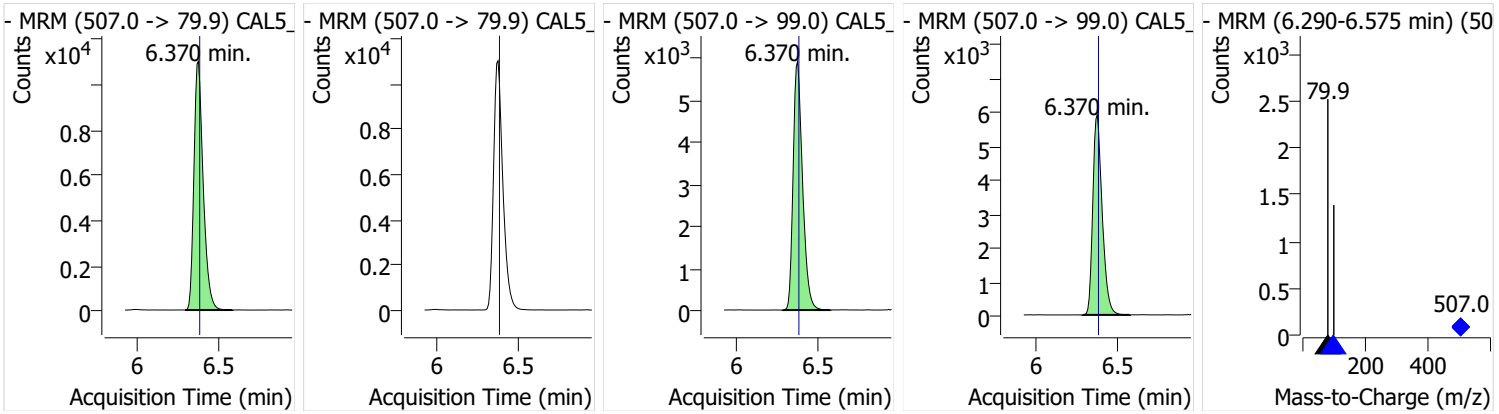
13C7-PFUnA - ISTD



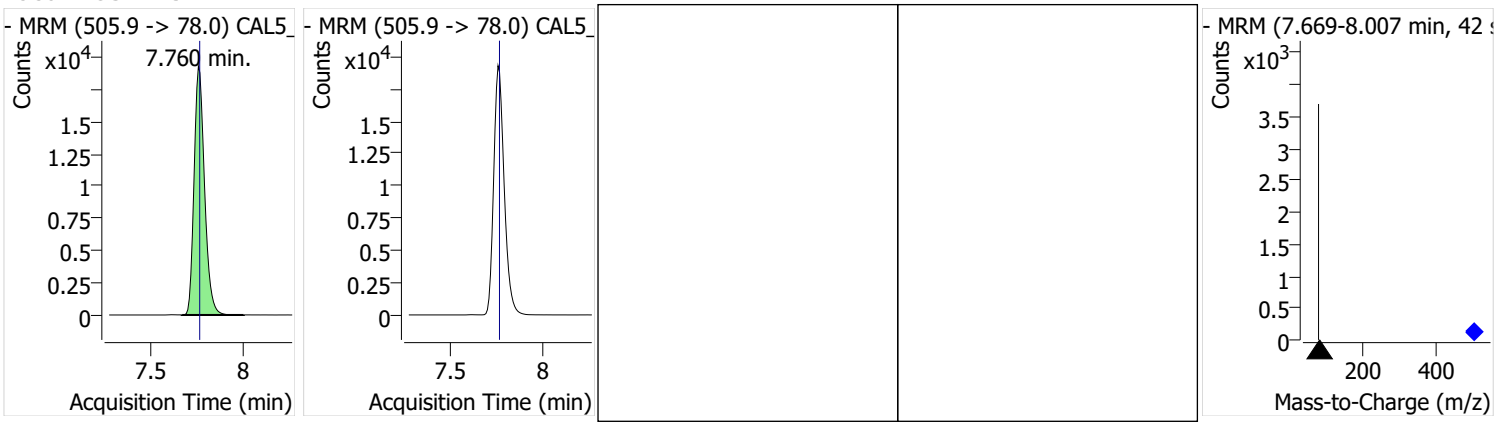
13C8-PFOA - ISTD



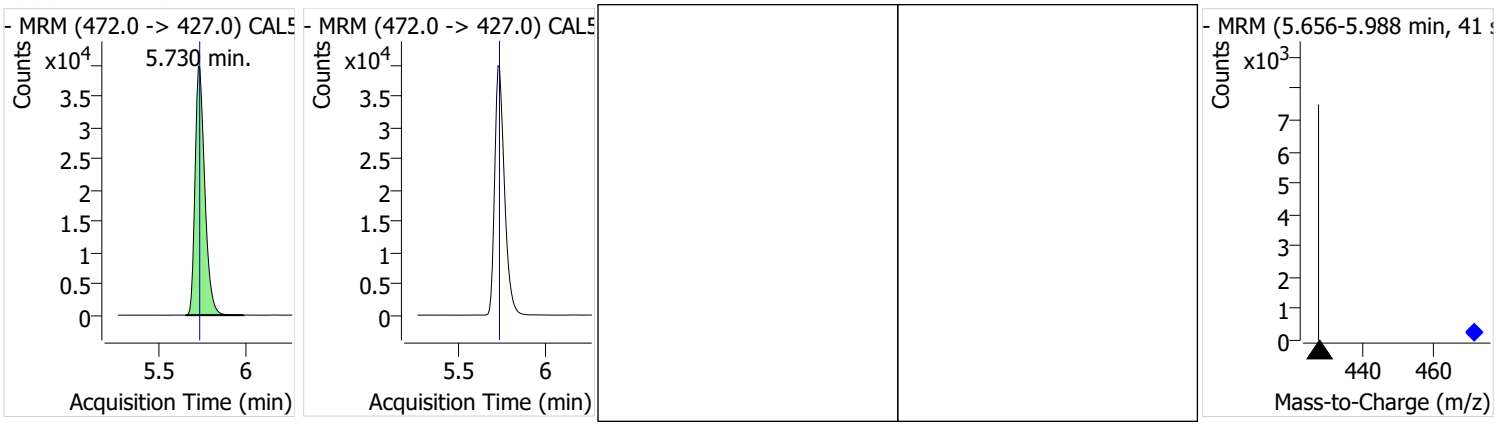
13C8-PFOS - ISTD



13C8-PFOSA - ISTD



13C9-PFNA - ISTD



18O2-PFHxS

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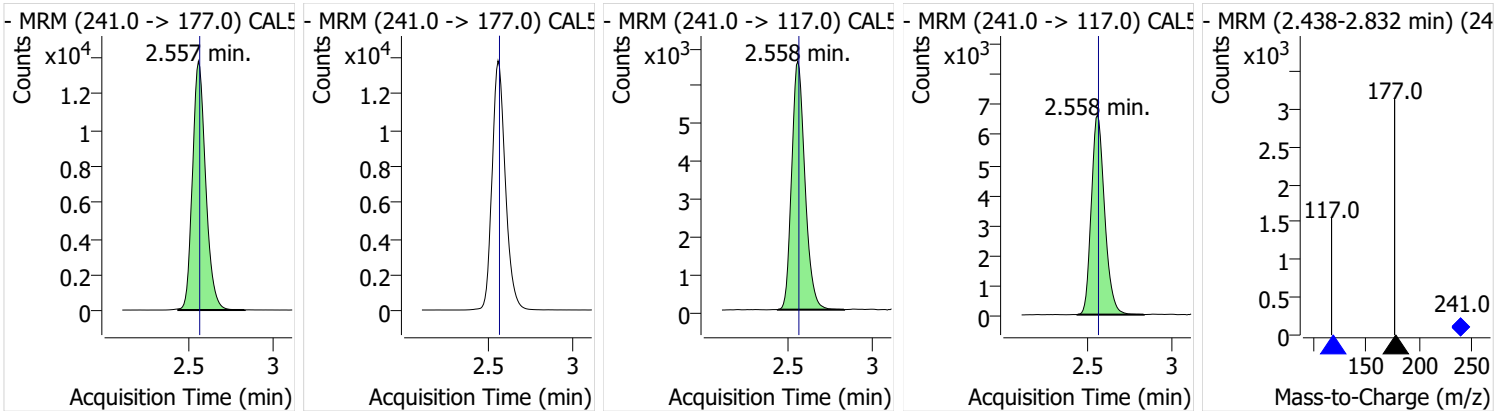
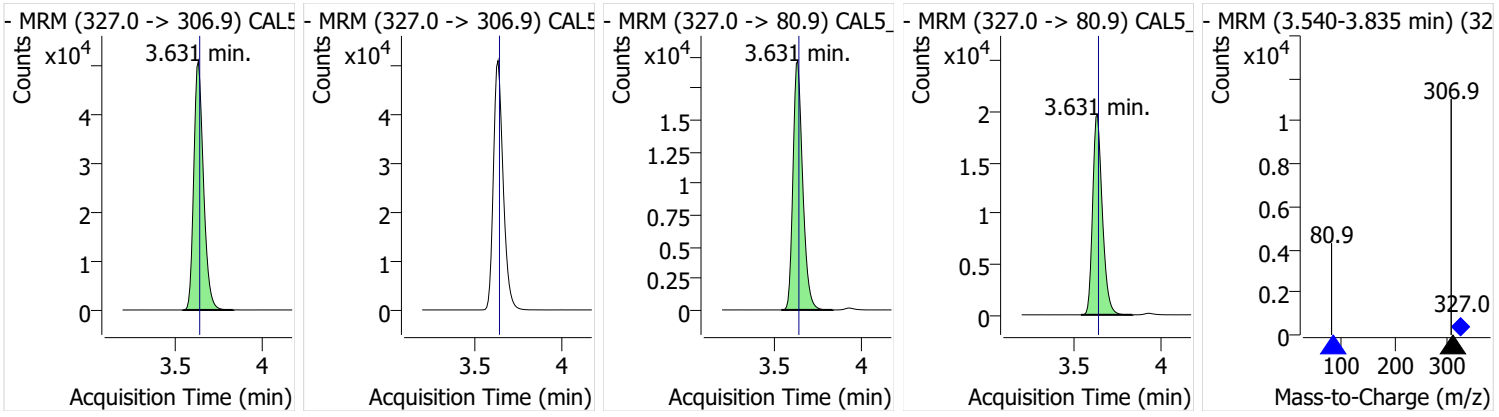


4:2FTS



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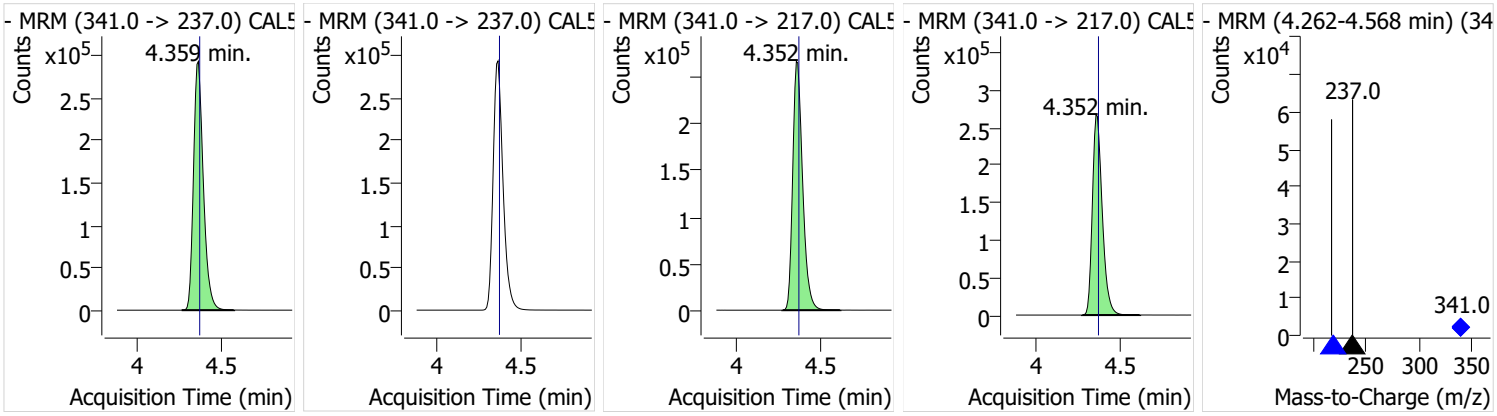

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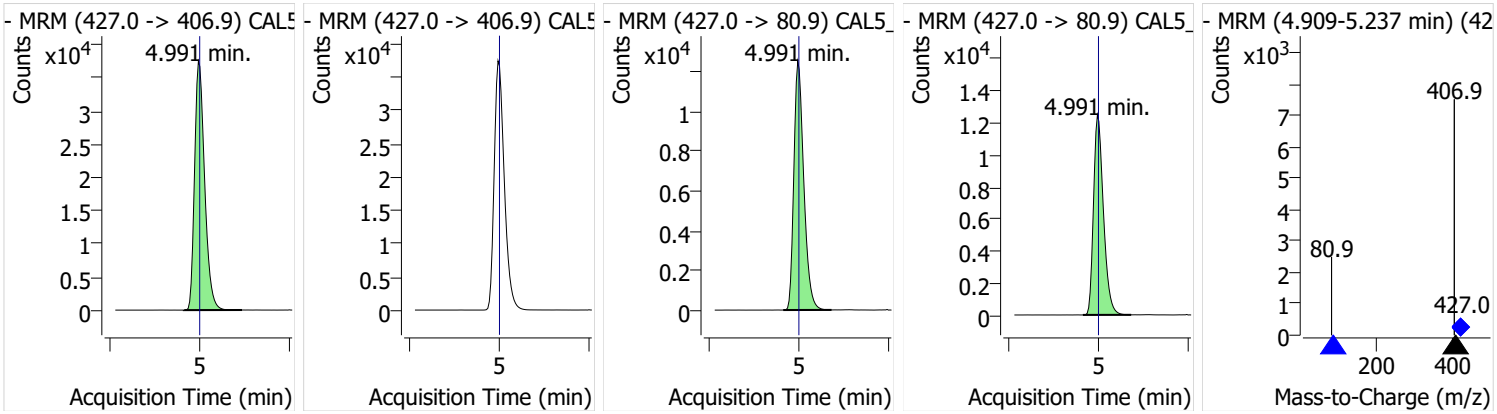

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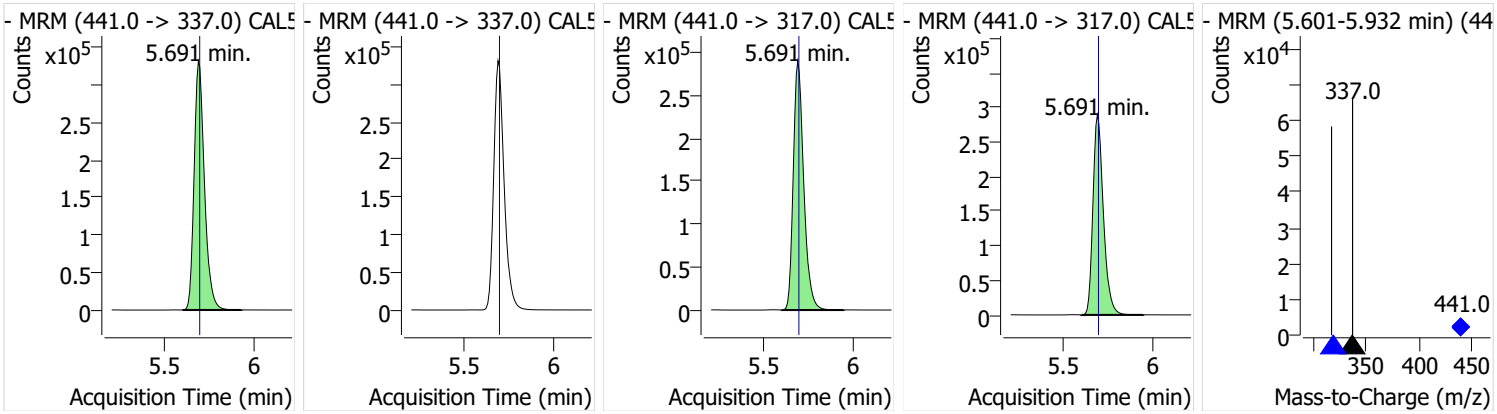

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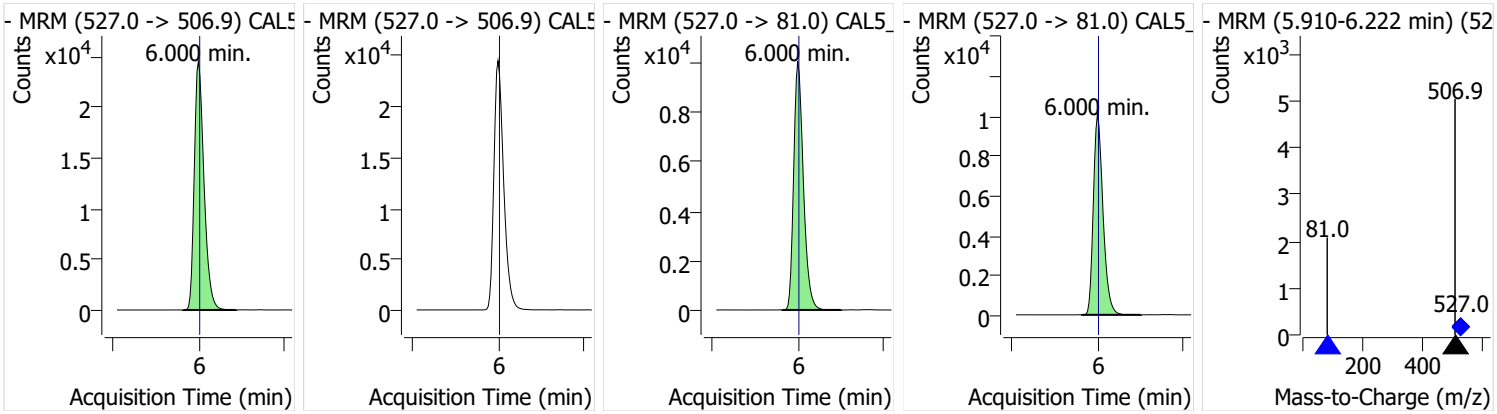
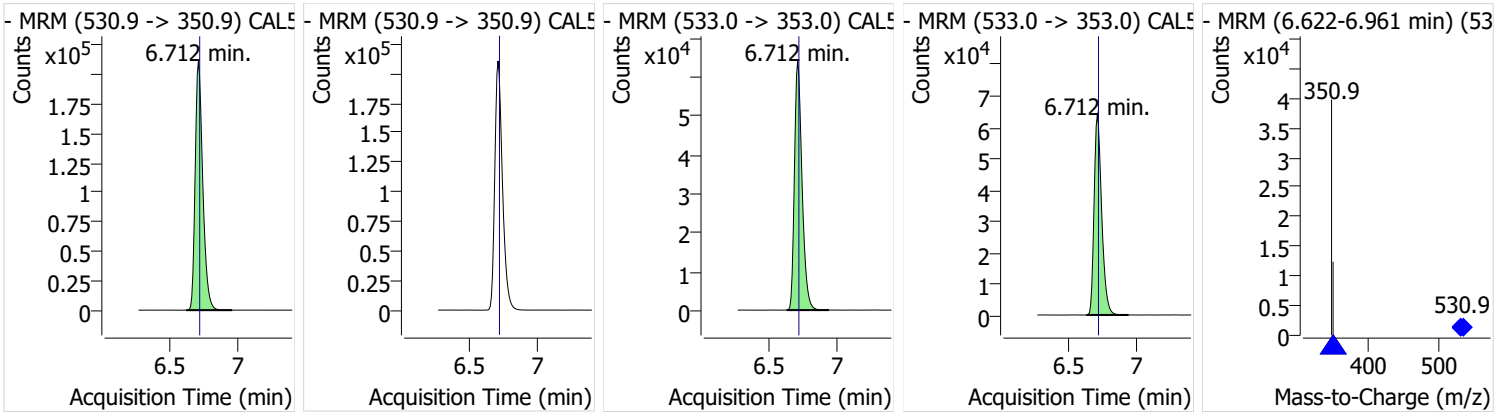
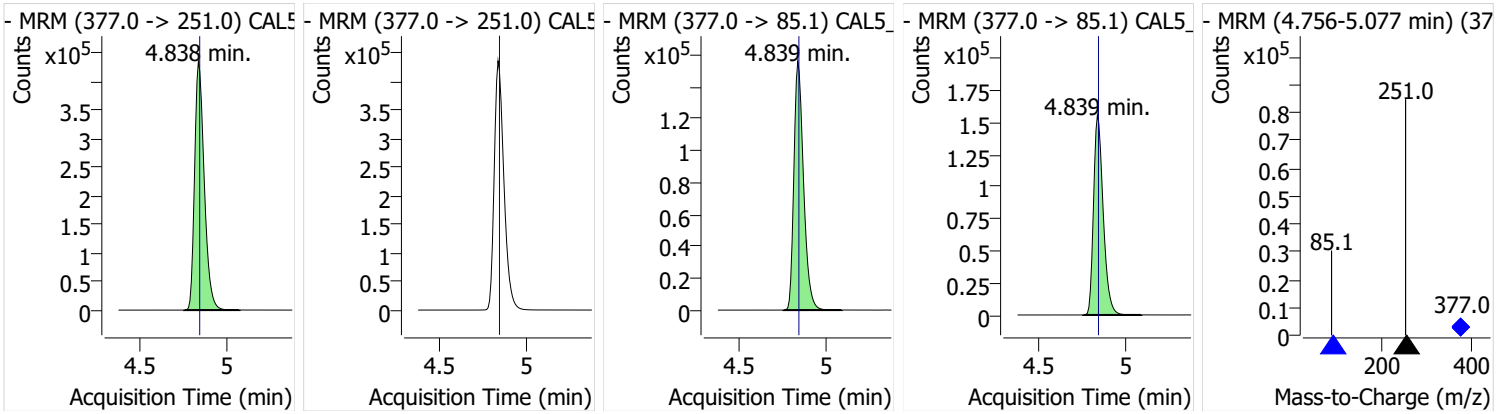


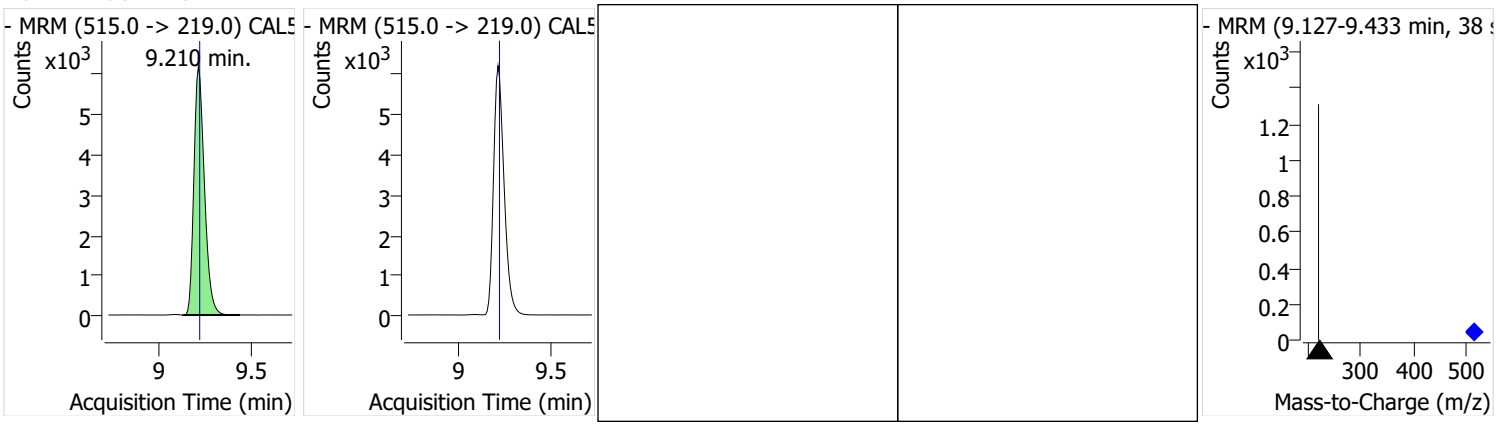
9Cl-PF3ONS



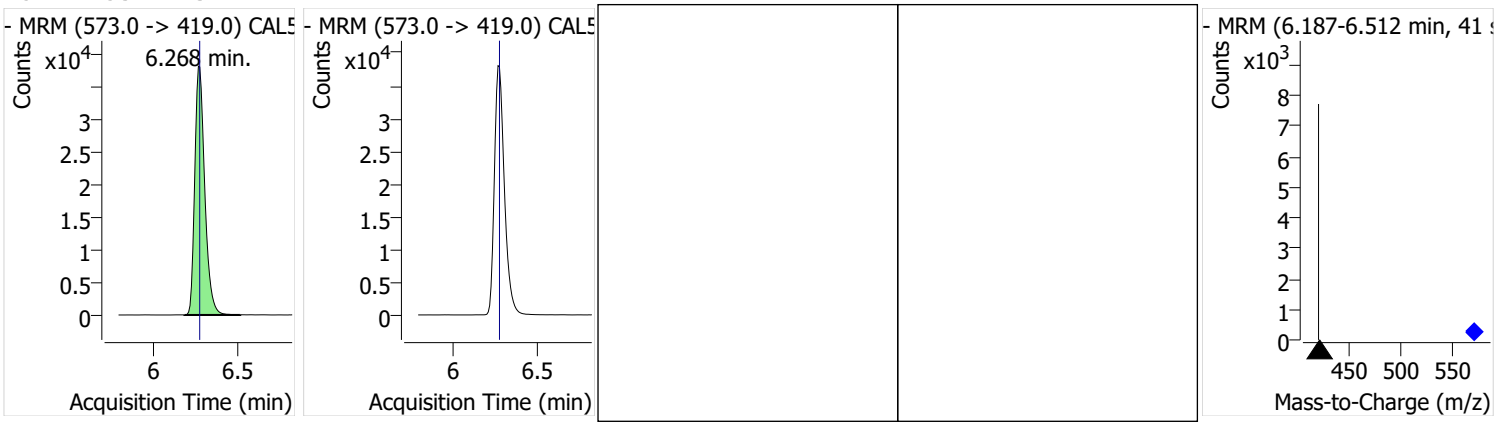
ADONA



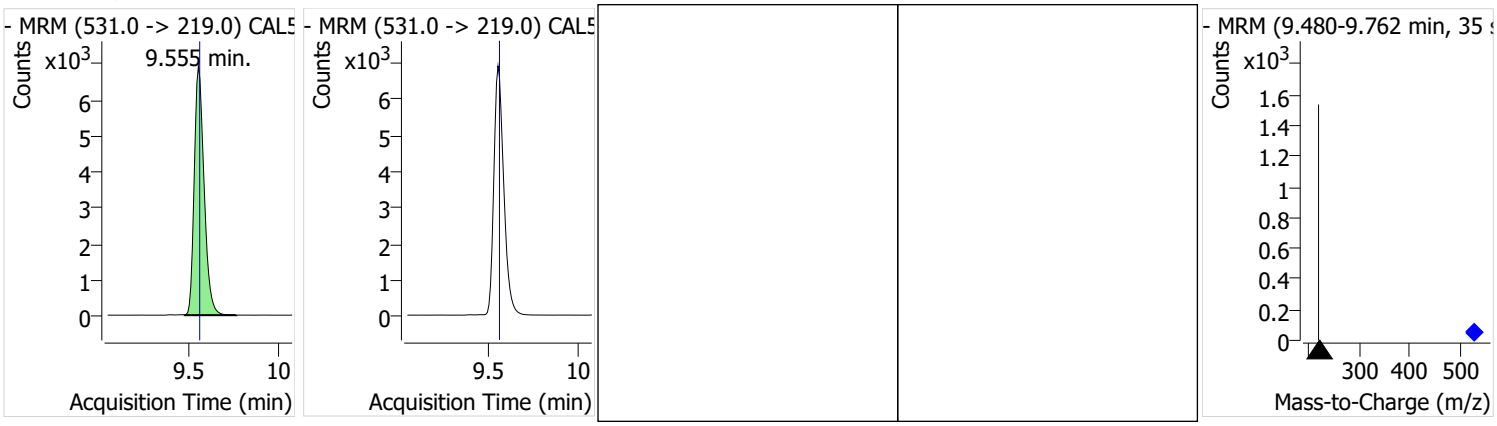
D3-NMeFOSA - ISTD



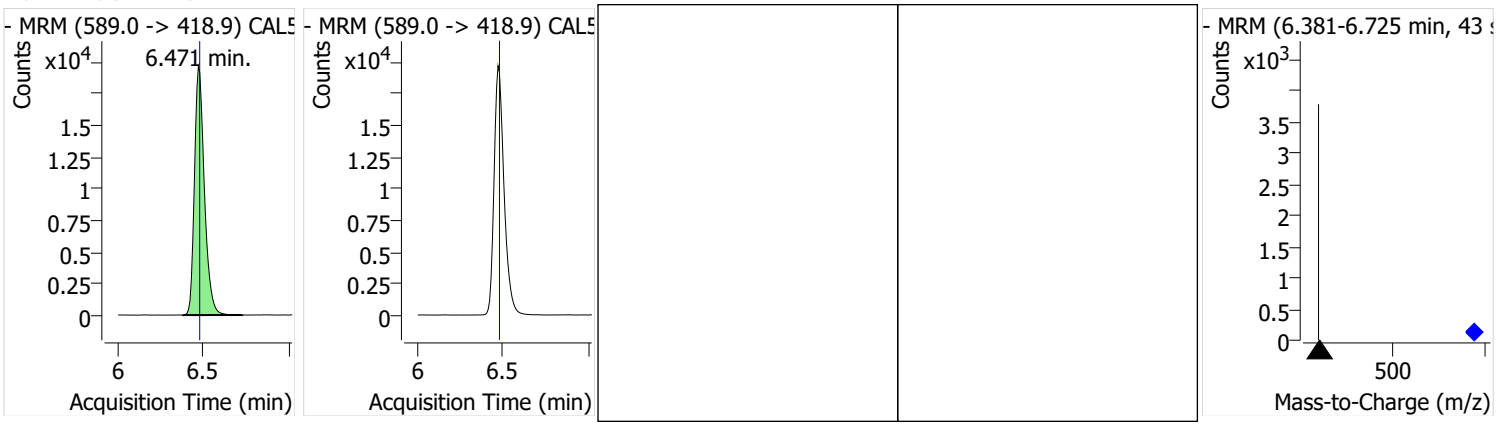
D3-NMeFOSAA - ISTD



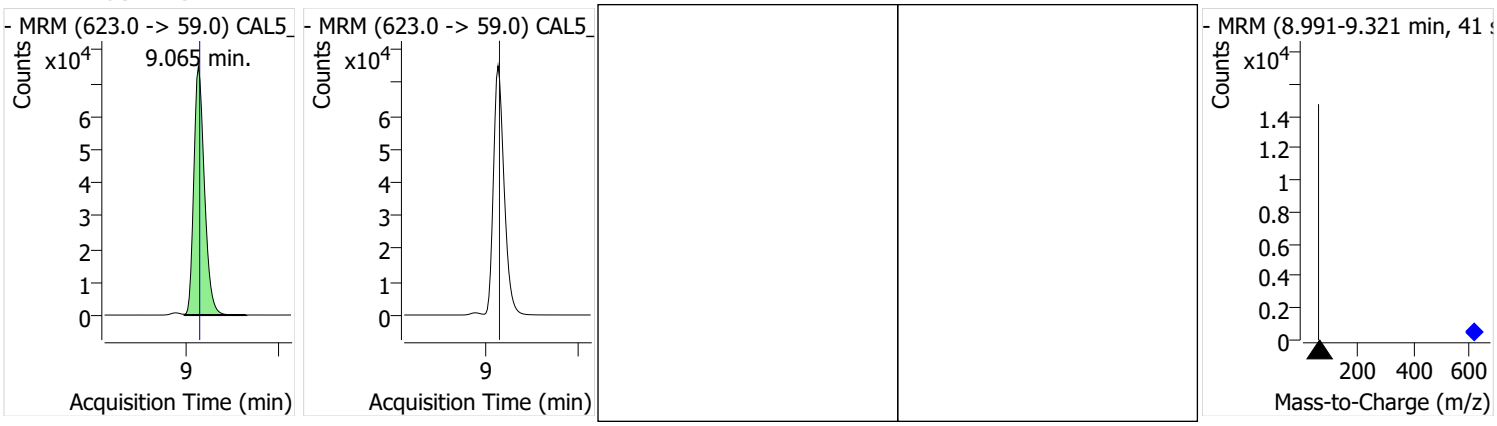
D5-NEtFOSA - ISTD



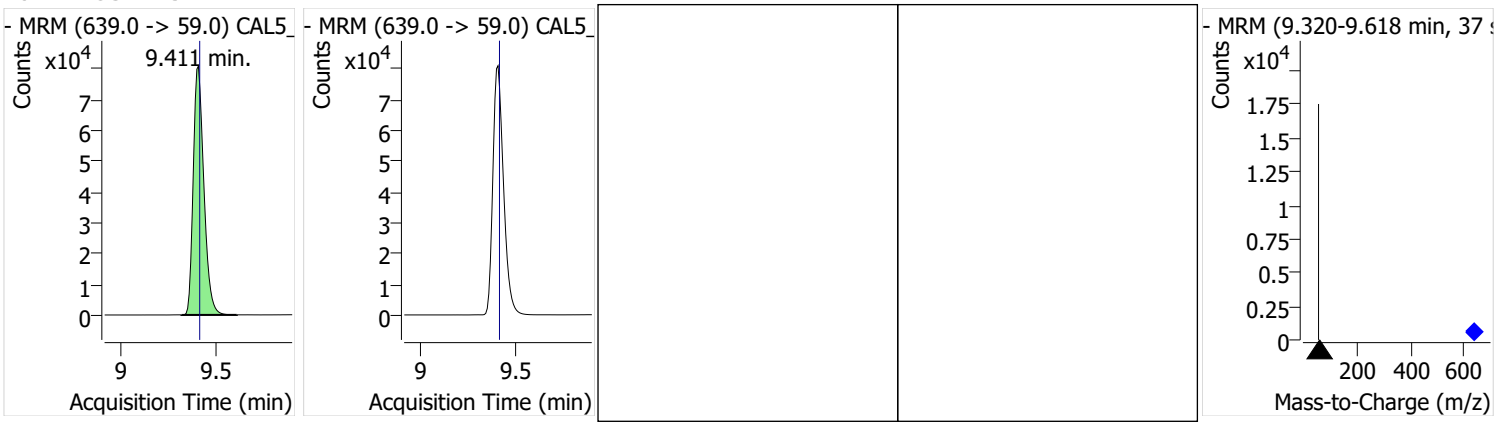
D5-NEtFOSAA - ISTD



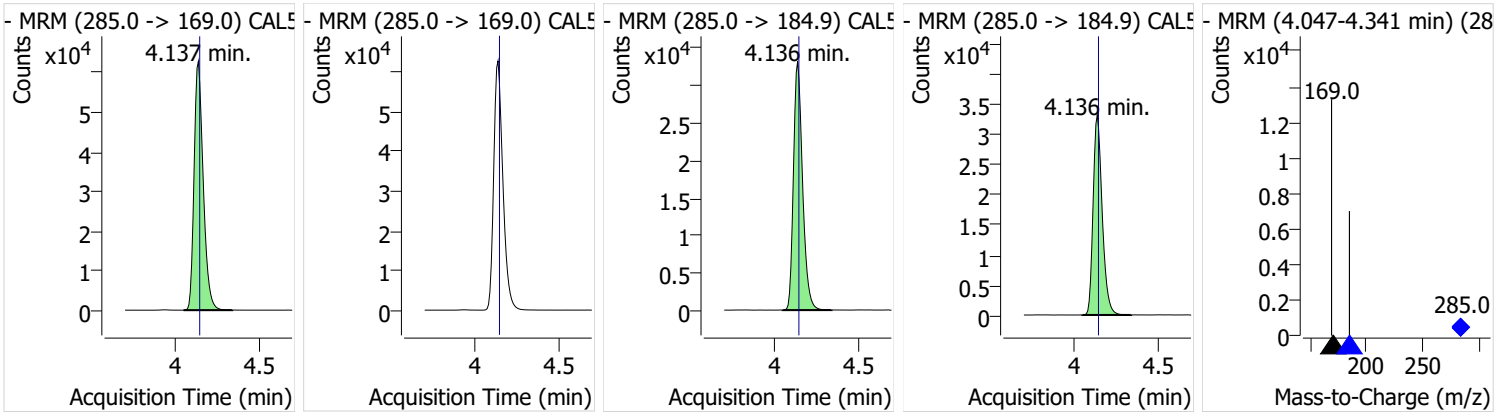
D7-NMeFOSE - ISTD



D9-NEtFOSE - ISTD



HFPO-DA



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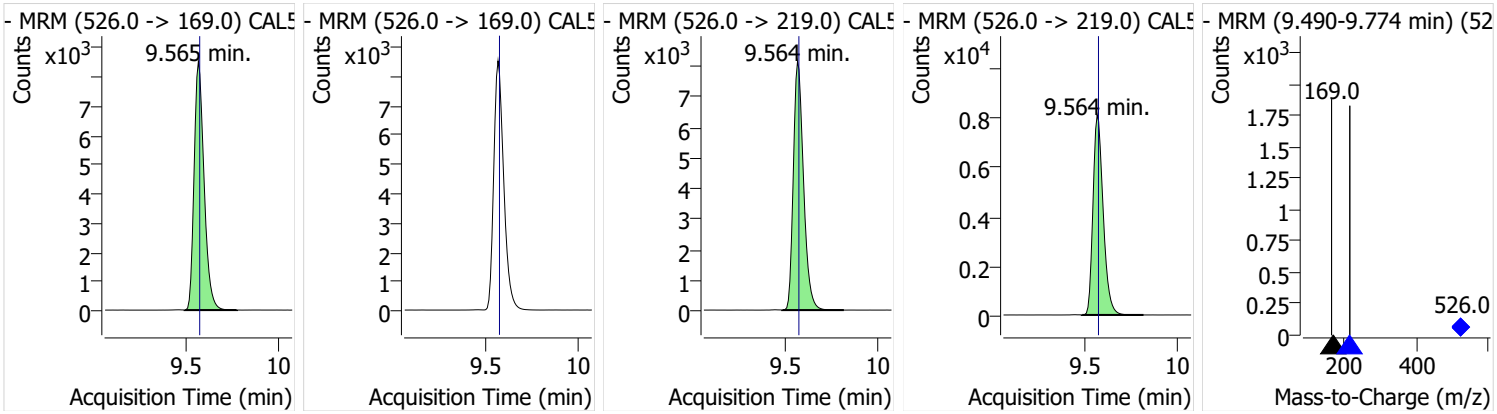

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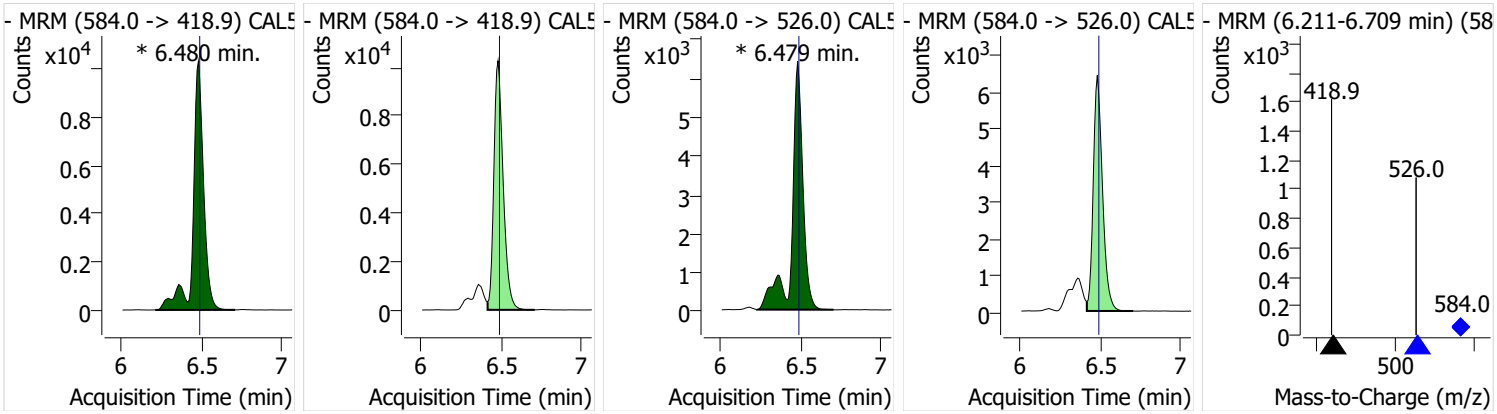

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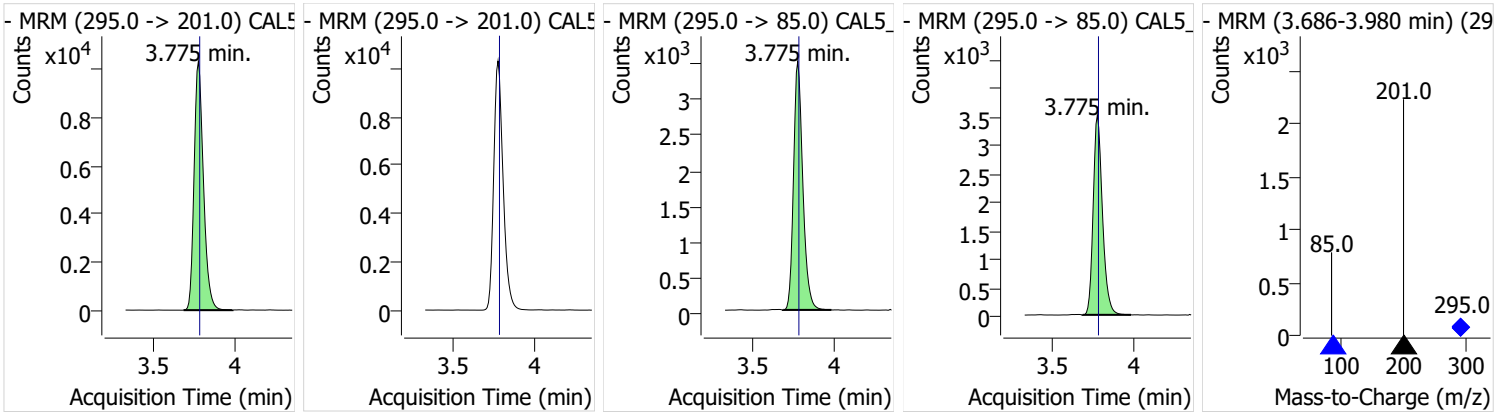
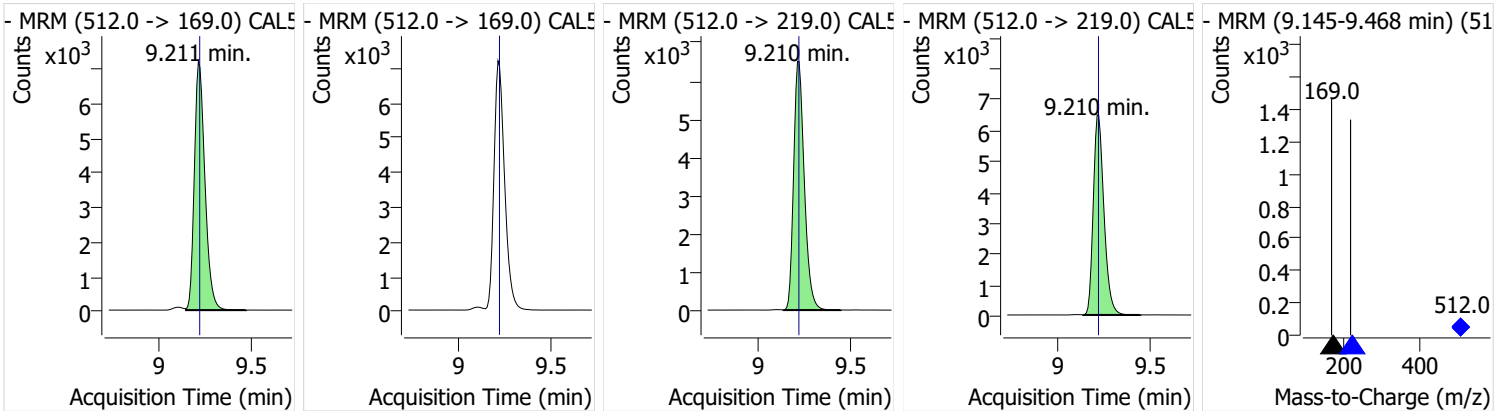


NMeFOSA



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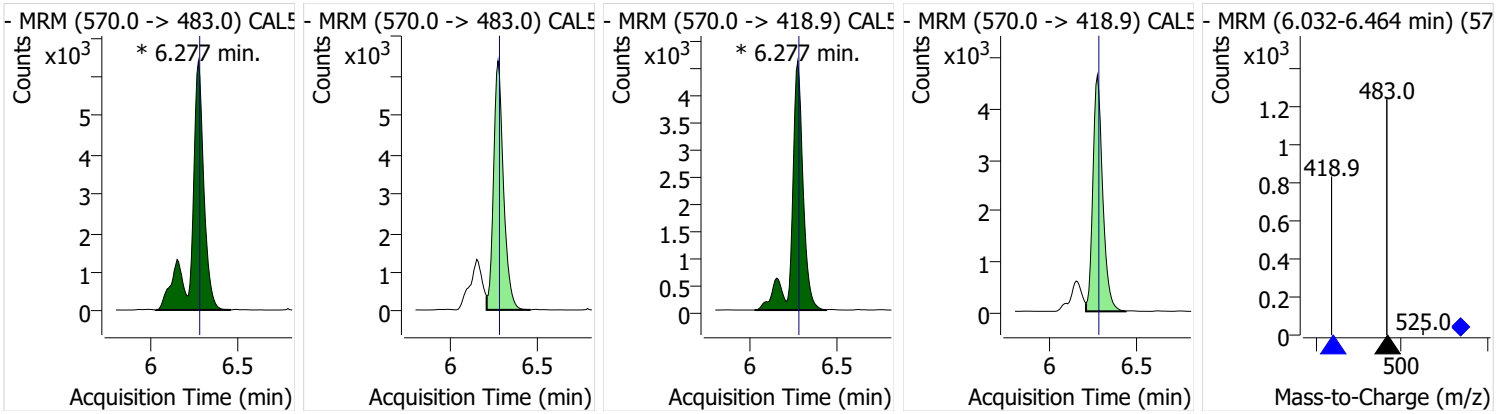

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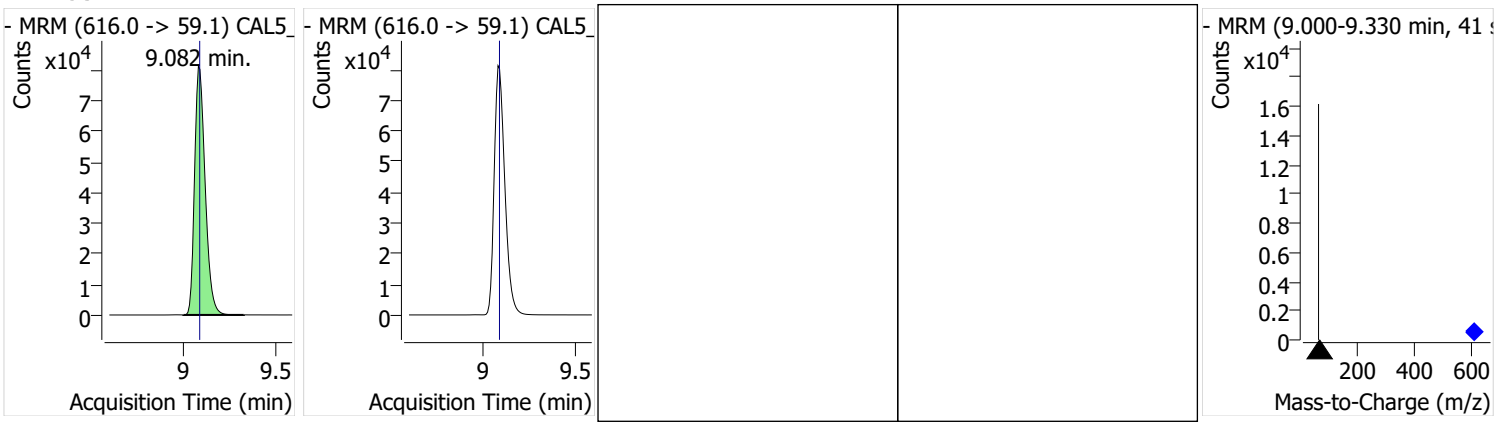
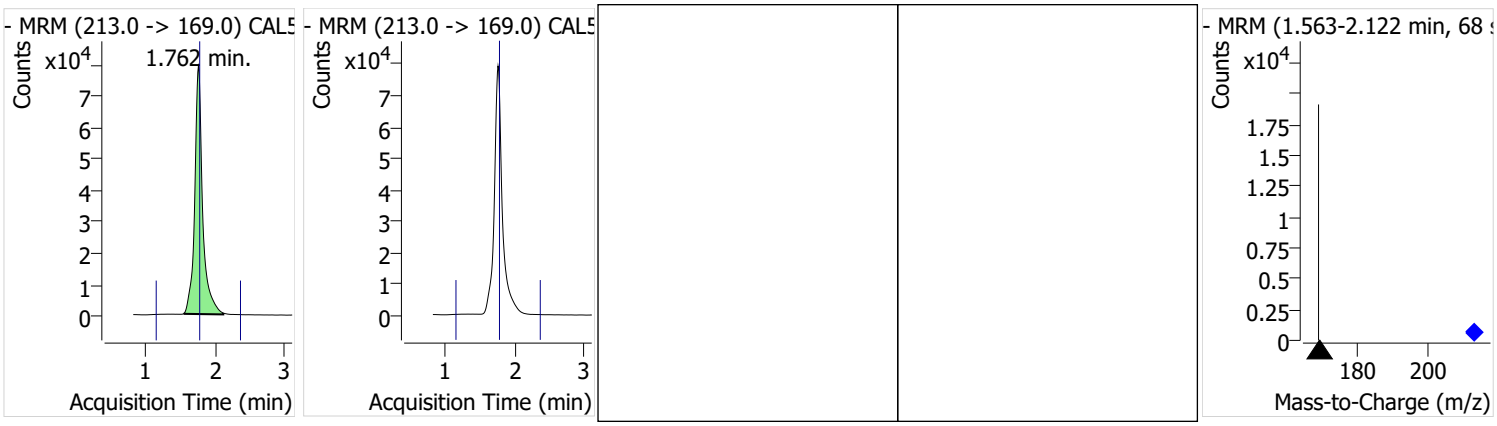


PFBA



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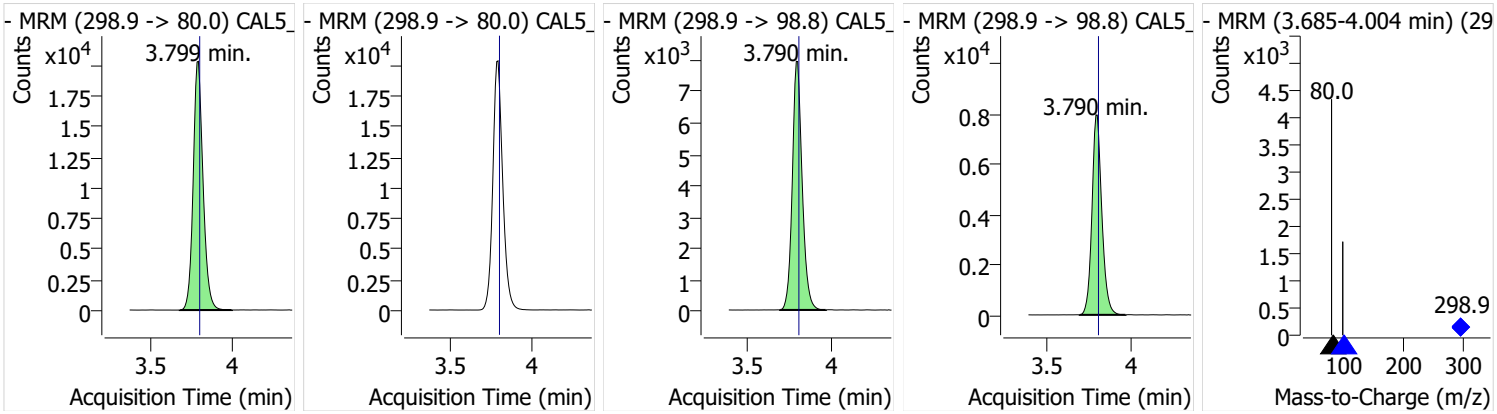

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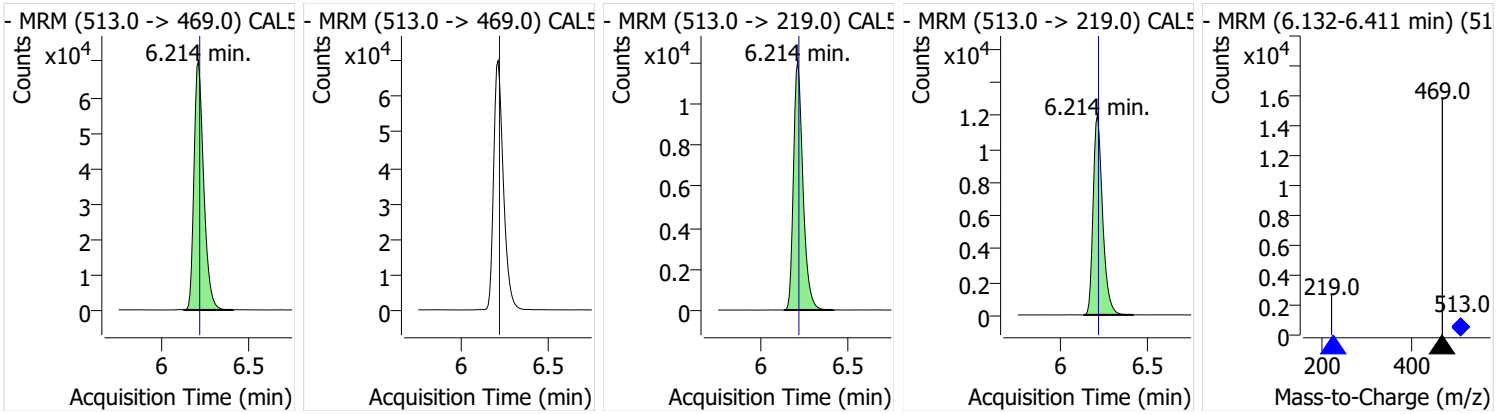

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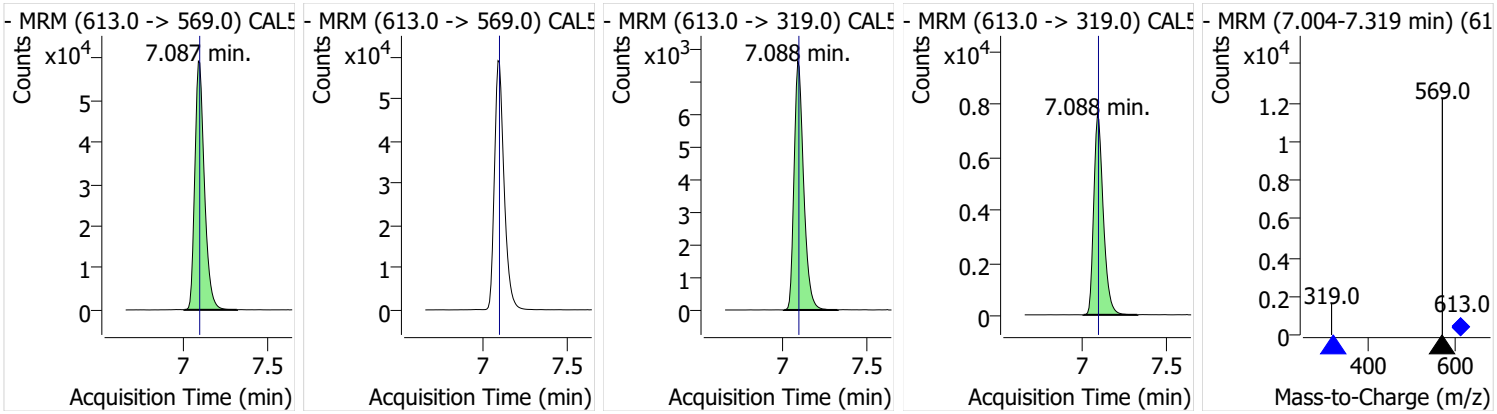

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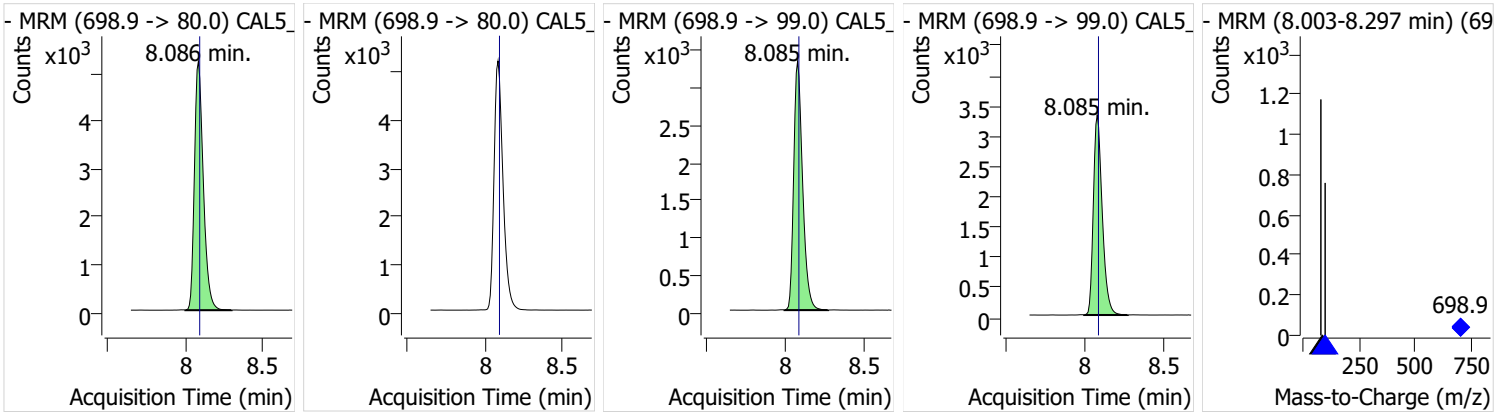

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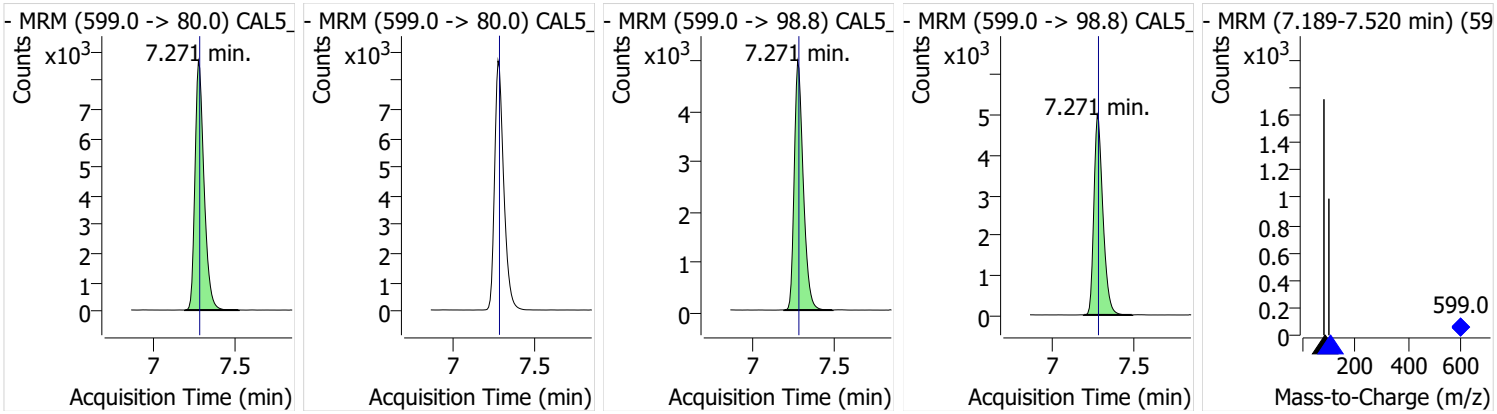

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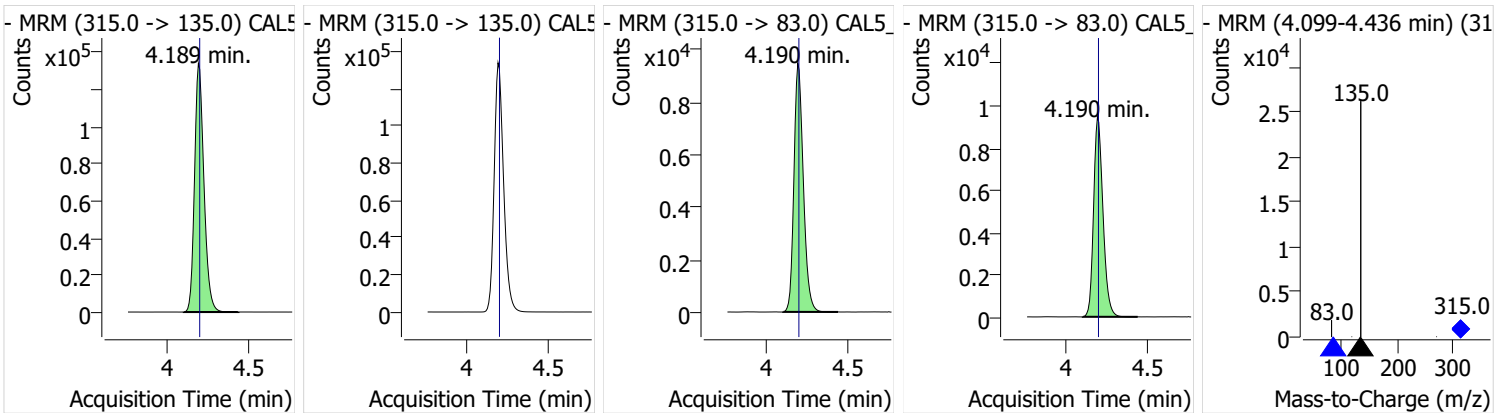
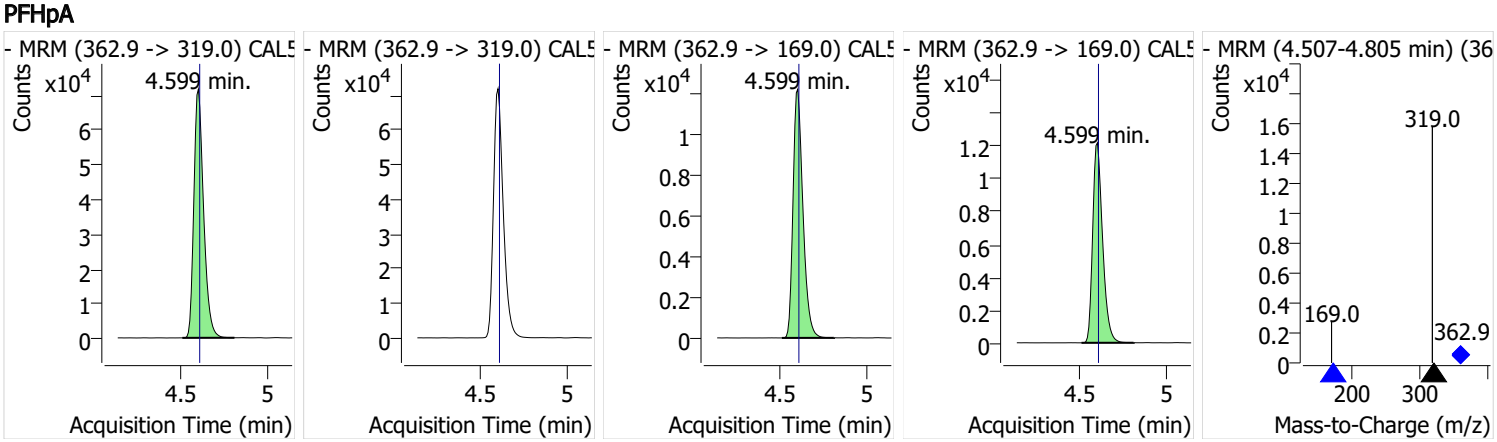


PFHpA



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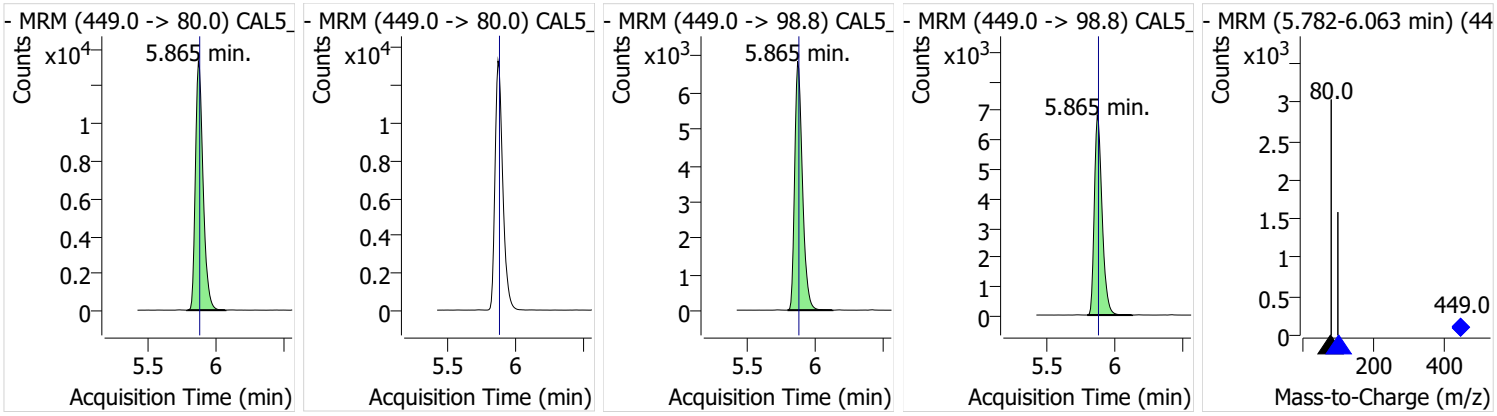
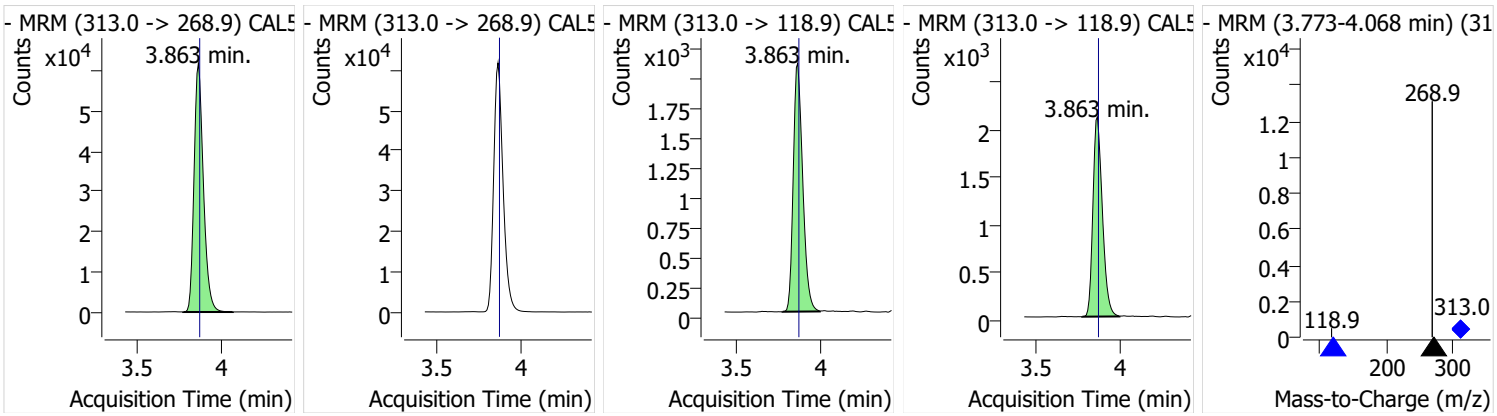
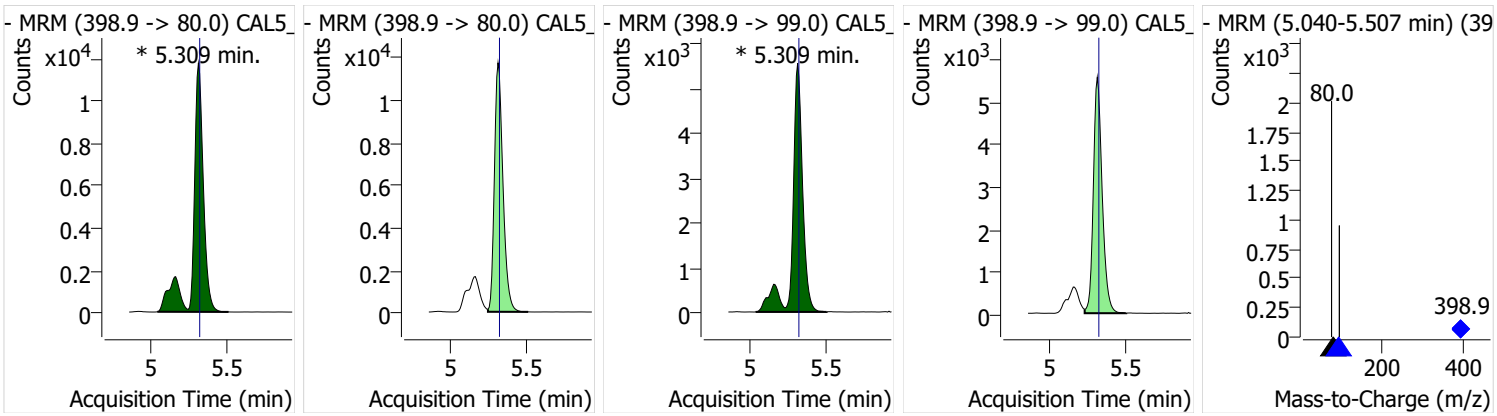


PFHxA



PFHxS



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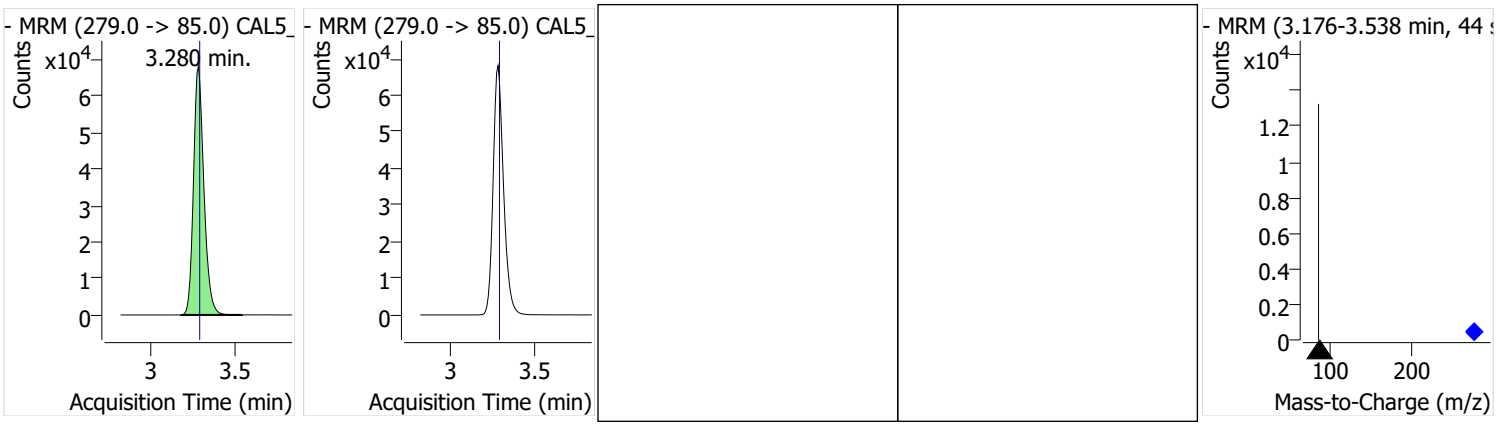

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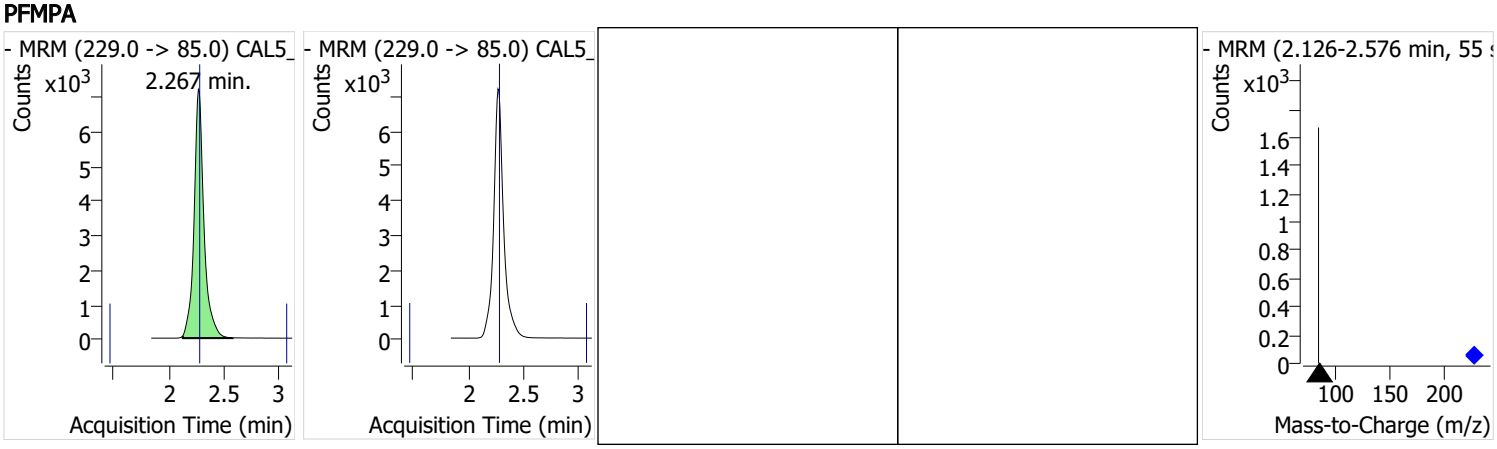

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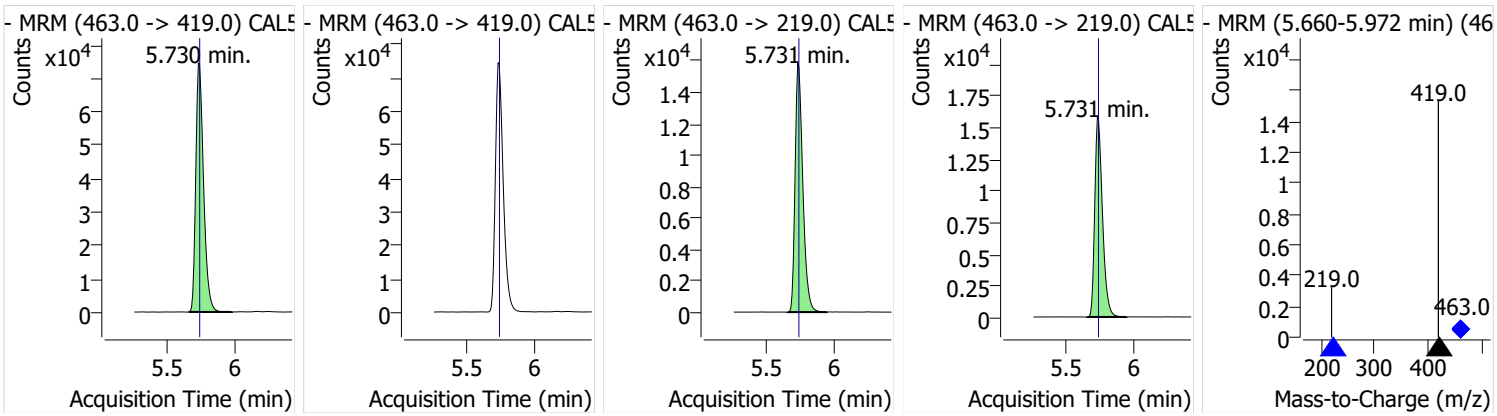
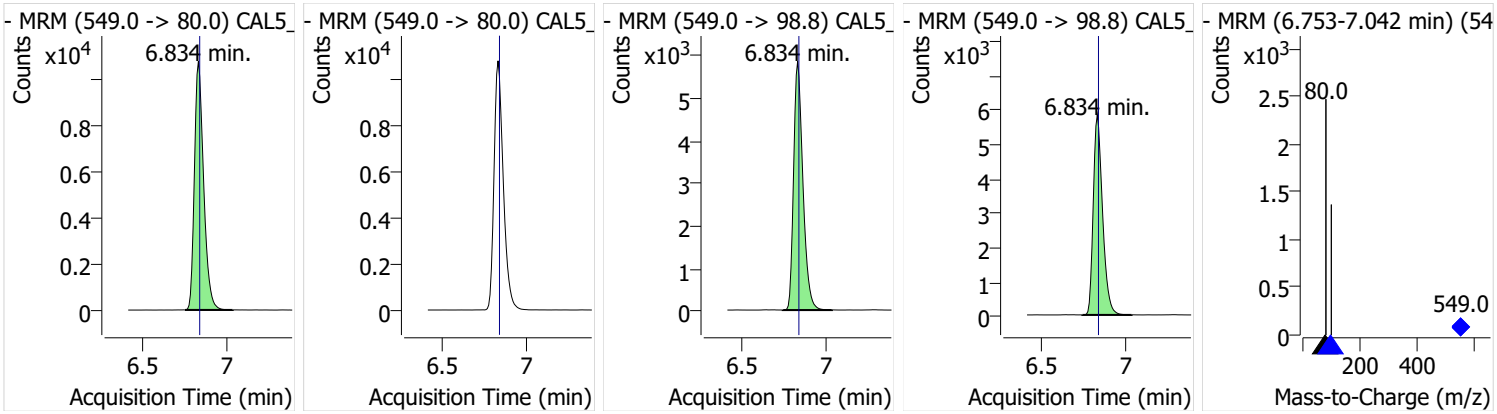


PFNS



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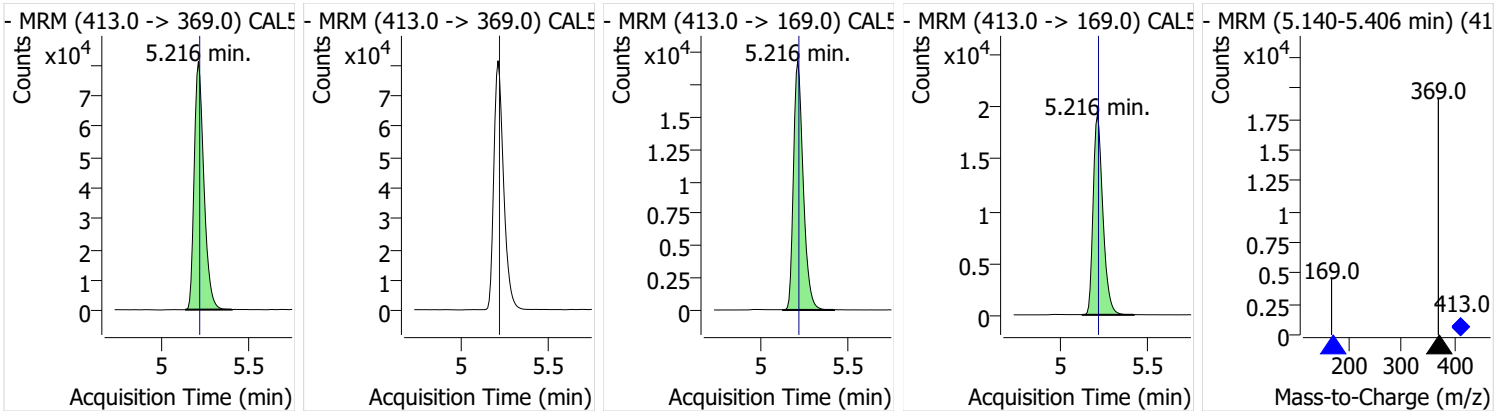

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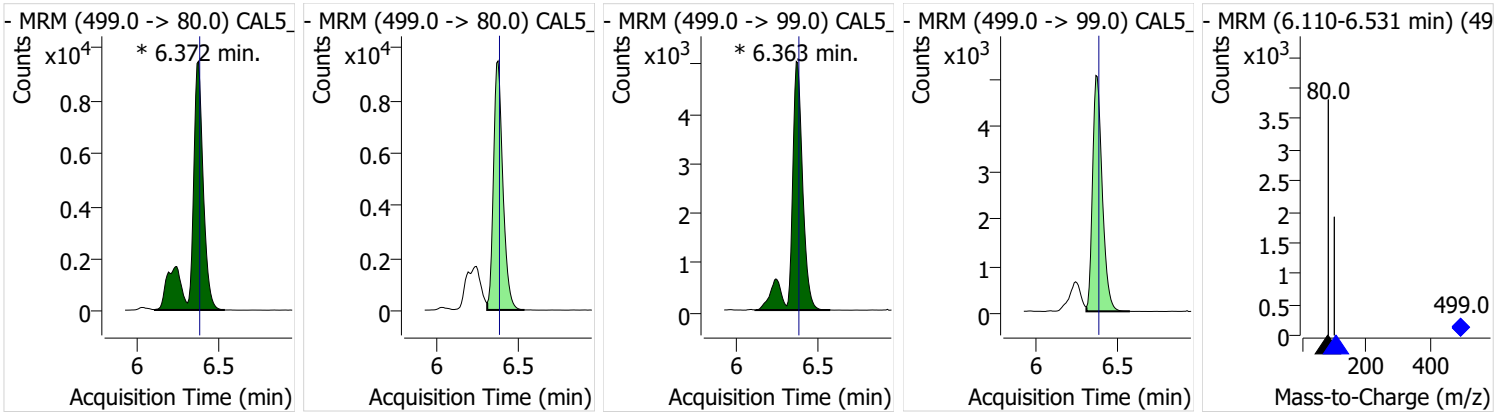

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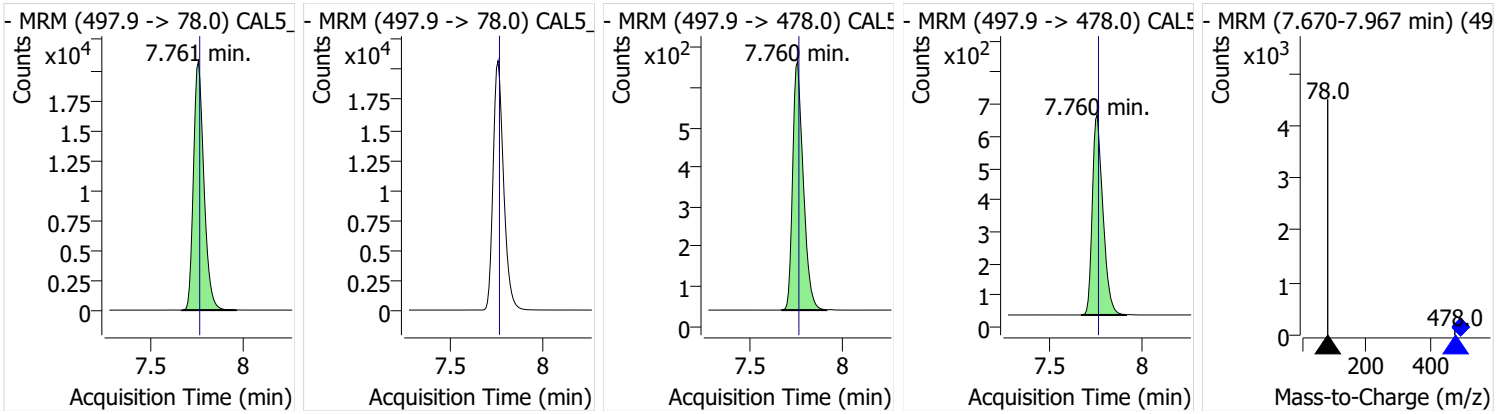
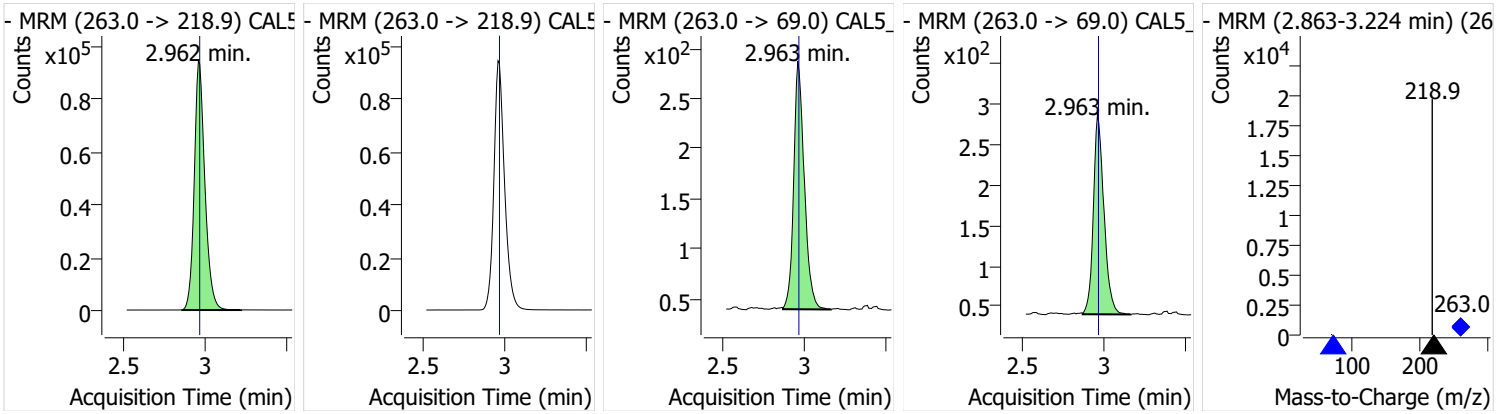


PFPeA



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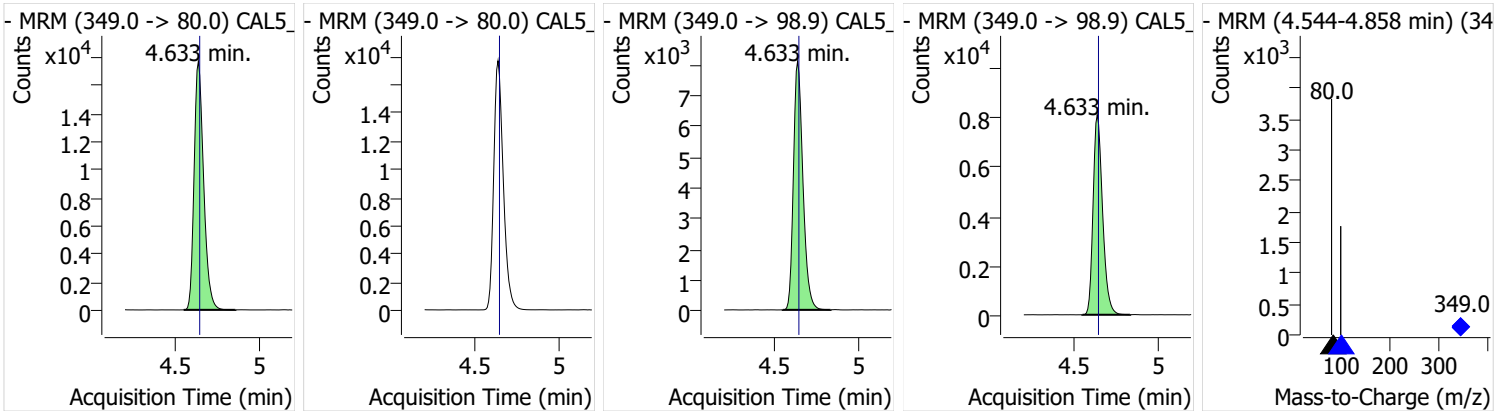
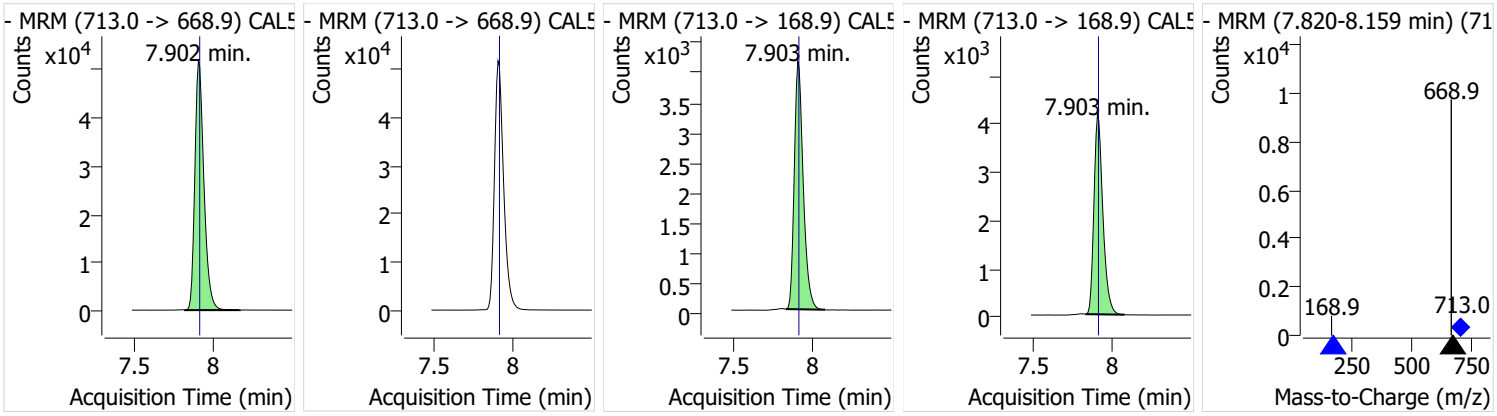


PFTeDA



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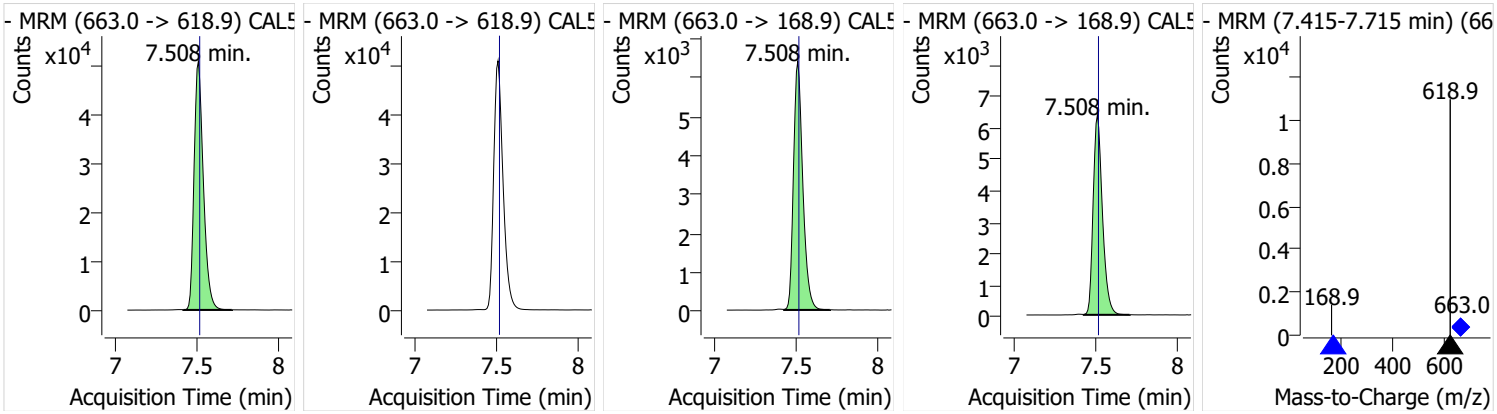
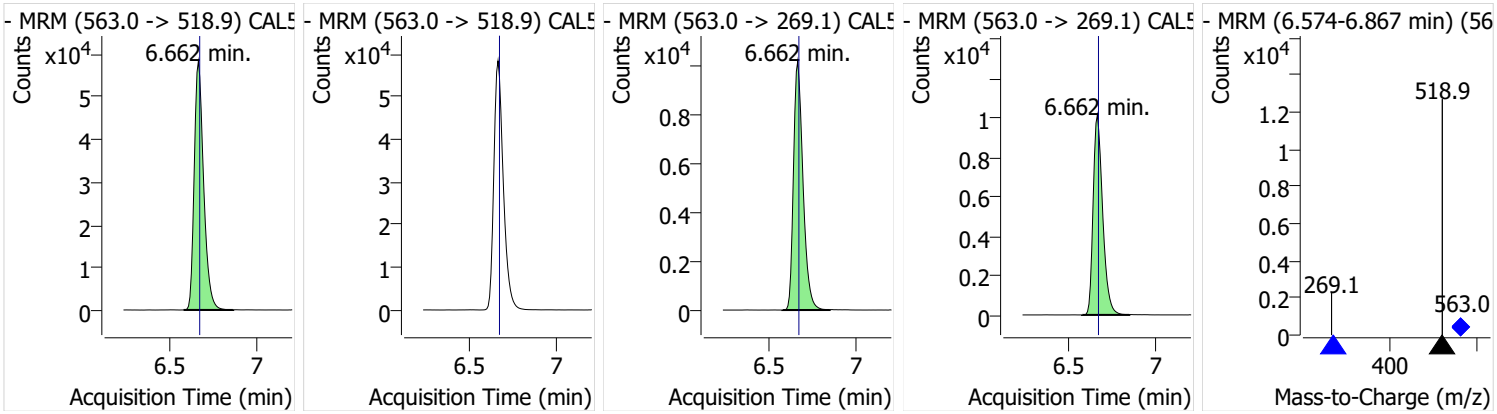


PFUnA



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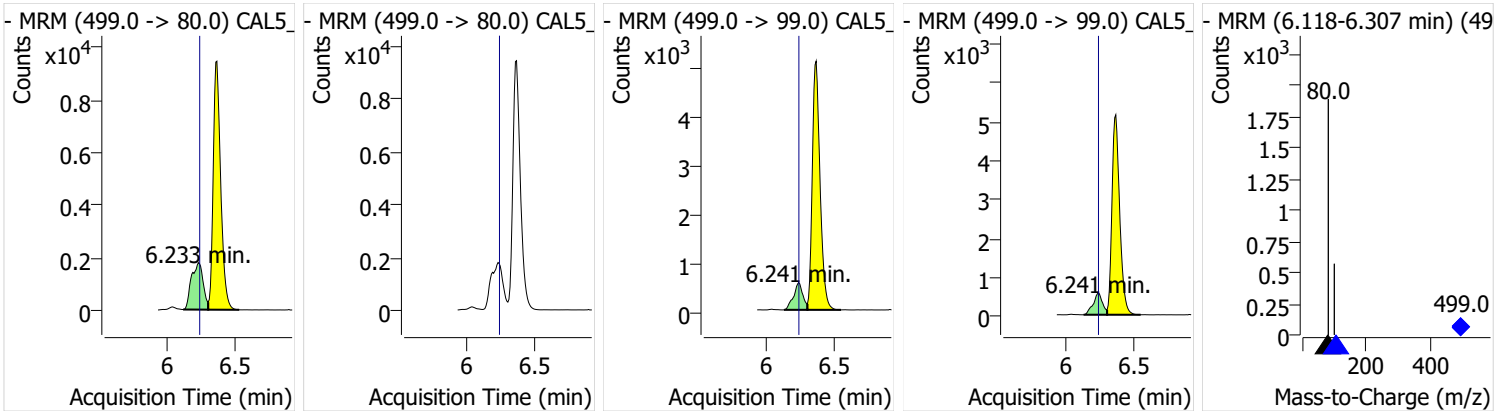
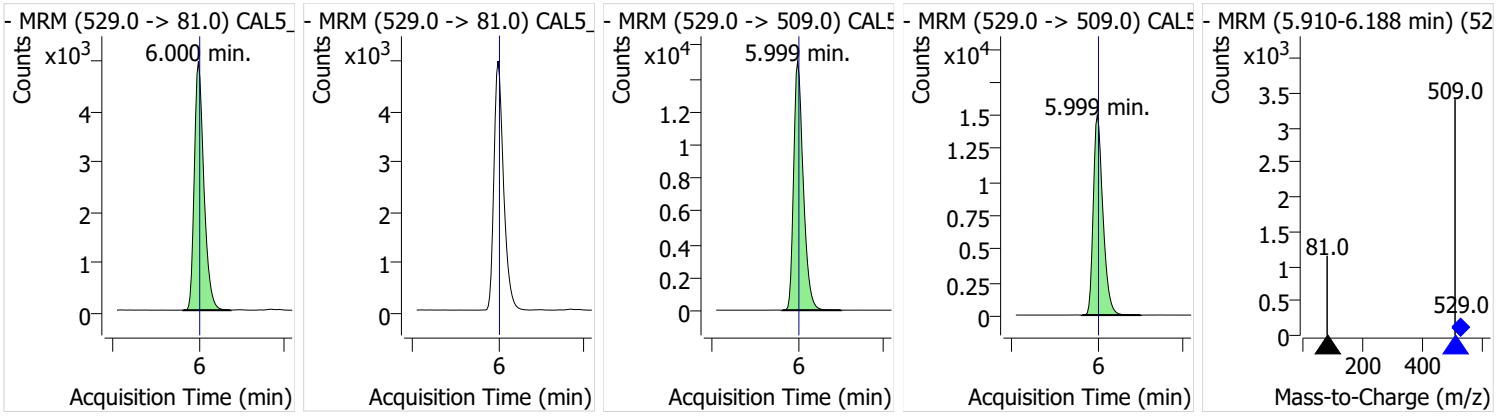
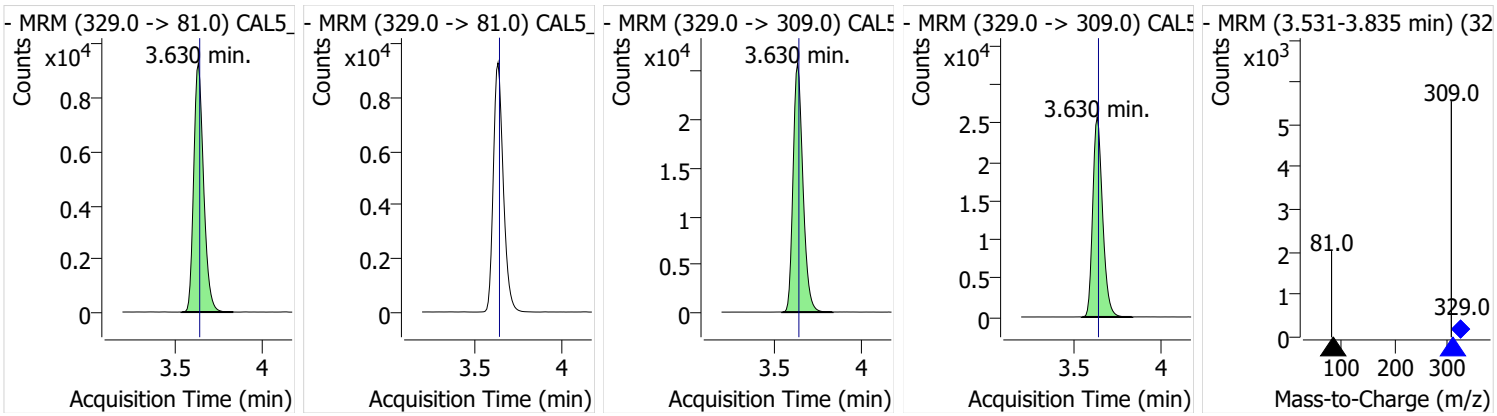


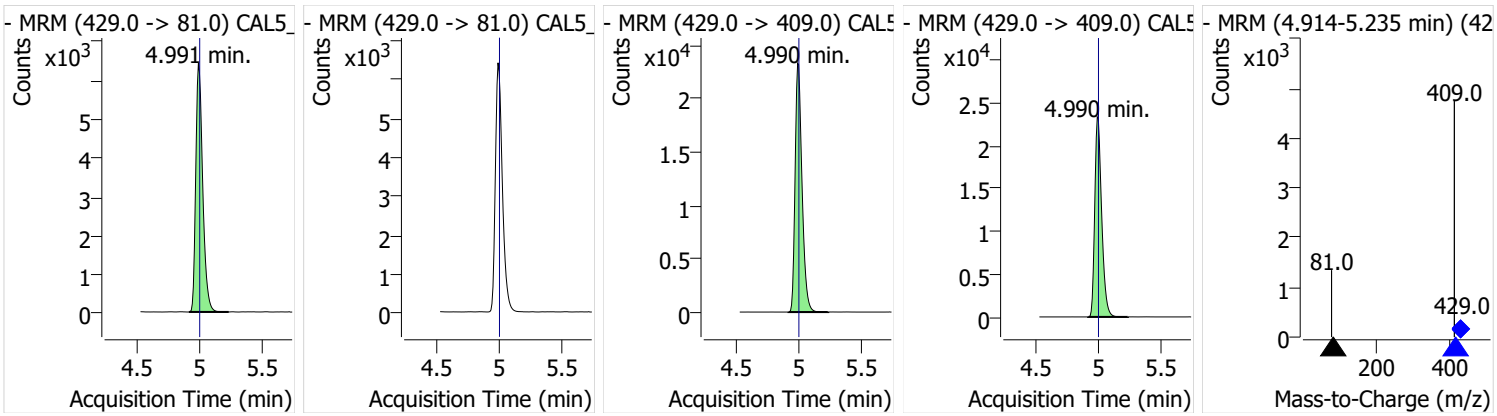
13C2-8:2FTS



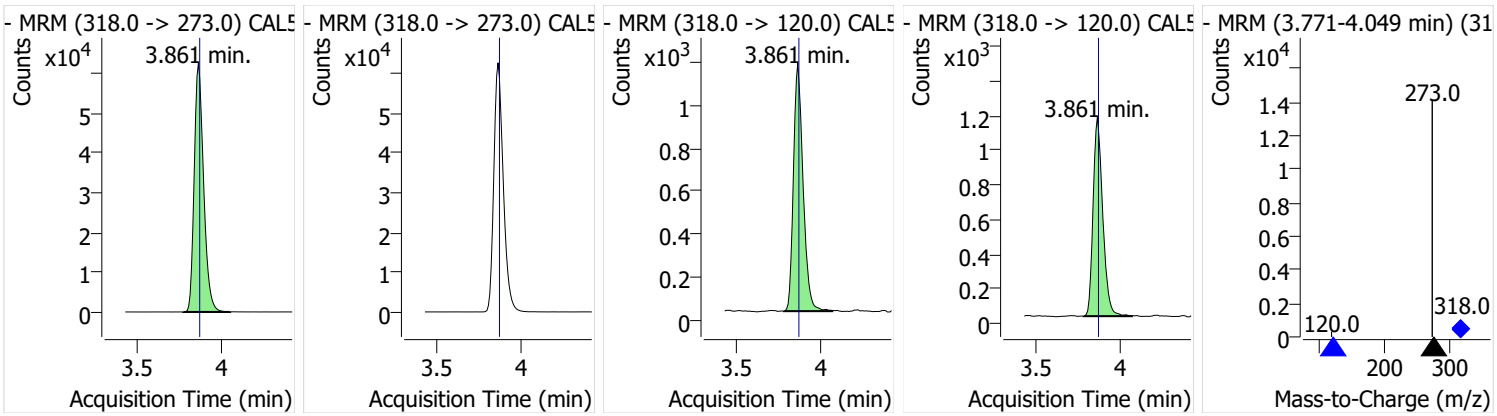
13C2-4:2FTS



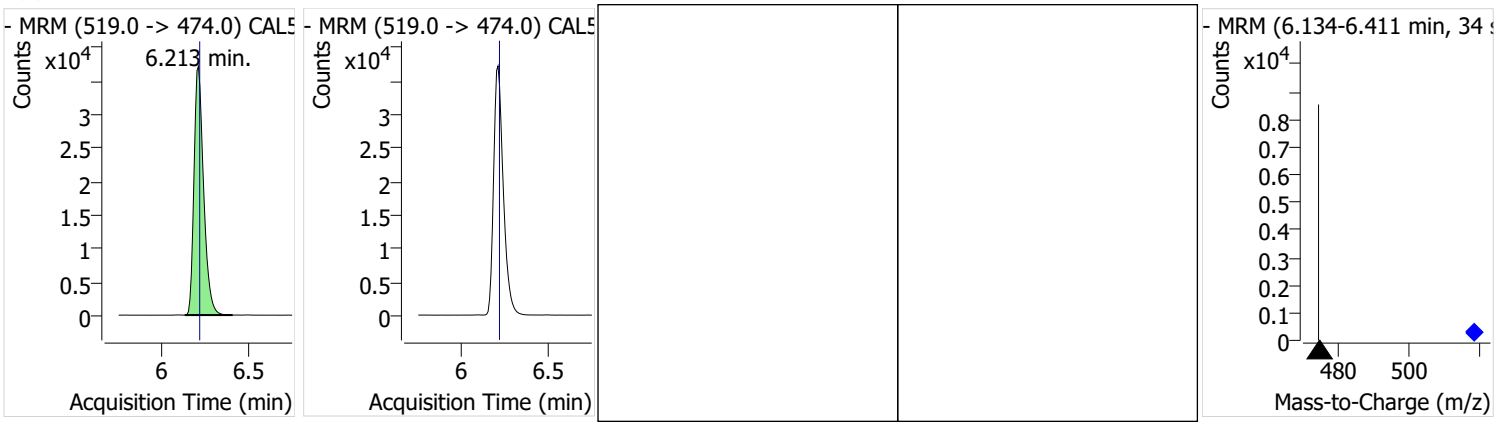
13C2-6:2FTS



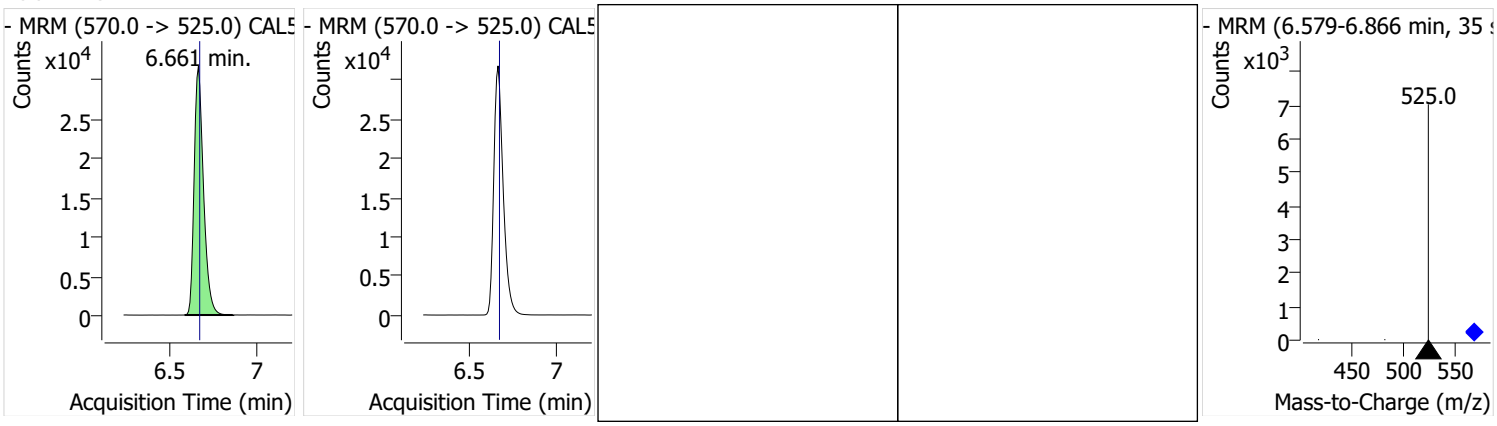
13C5-PFHxA



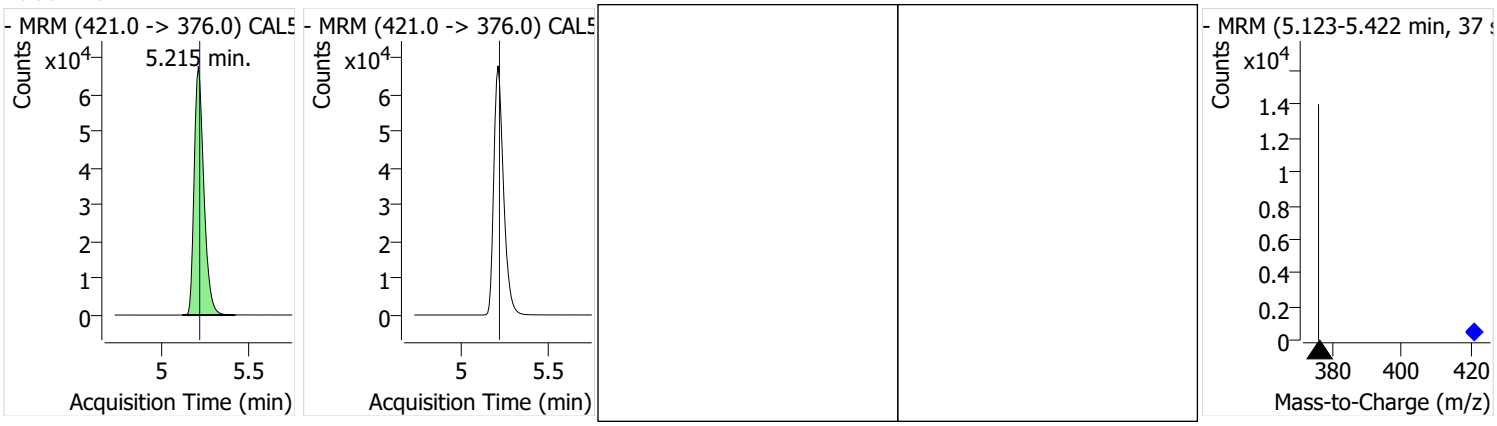
13C6-PFDA



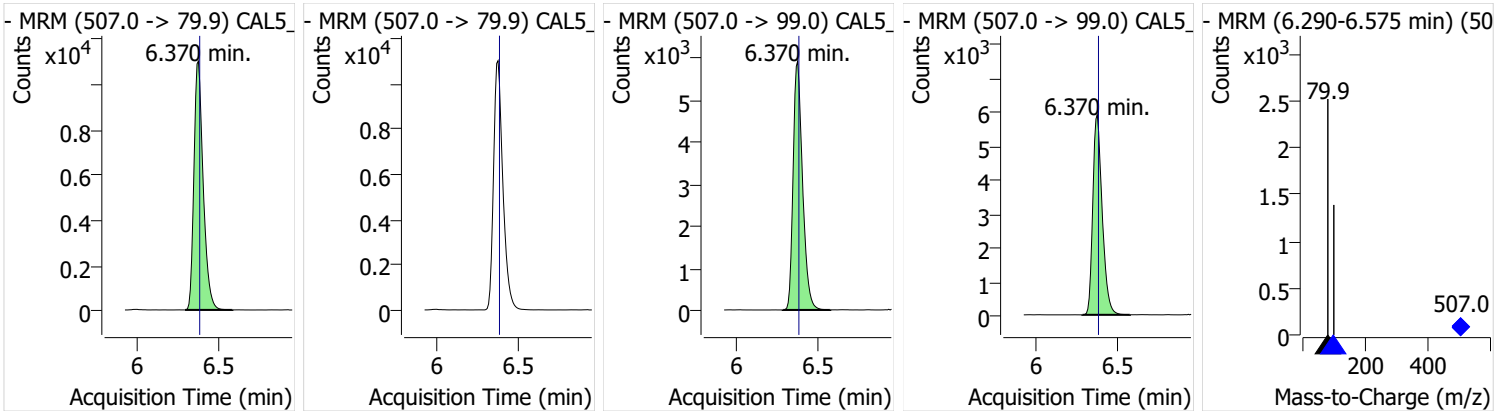
13C7-PFUnA



13C8-PFOA



13C8-PFOS



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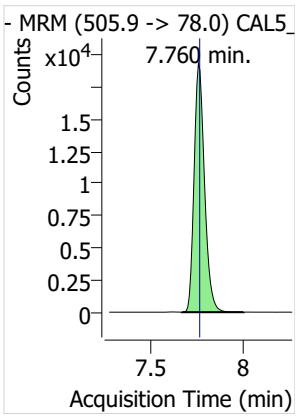
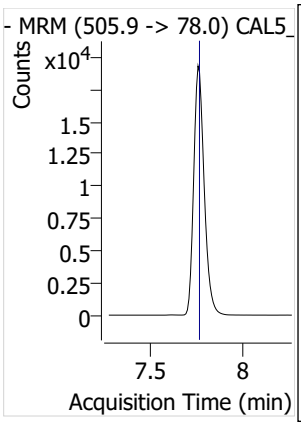
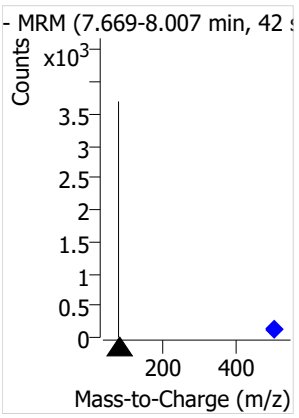
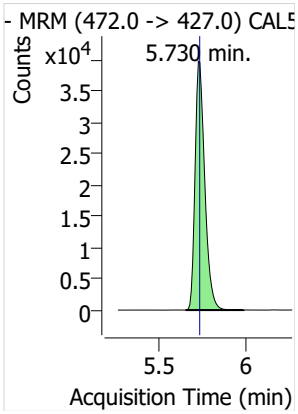
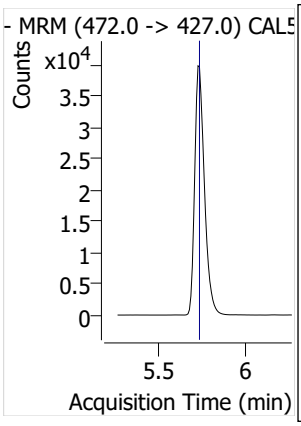


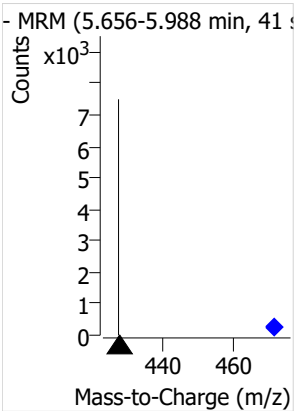




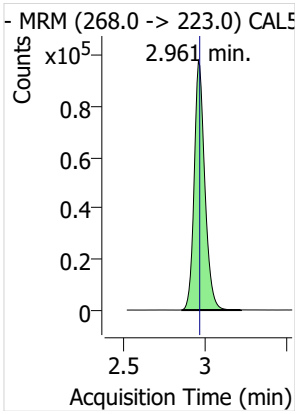
13C9-PFNA

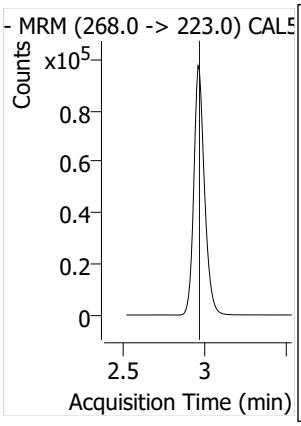


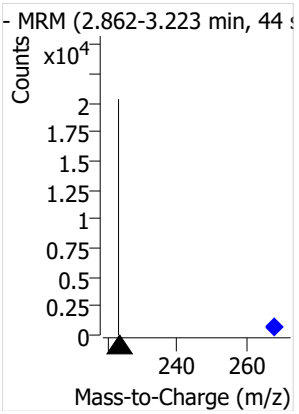




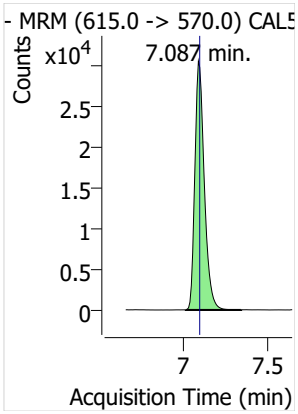
13C5-PFPeA

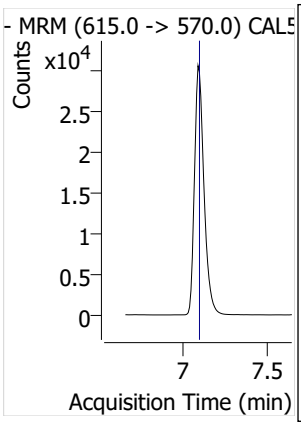


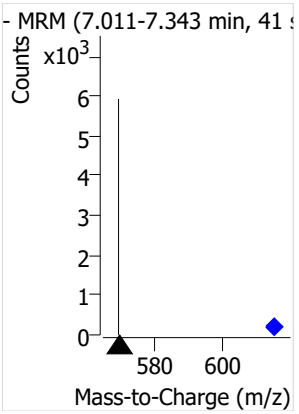




13C2-PFDoA







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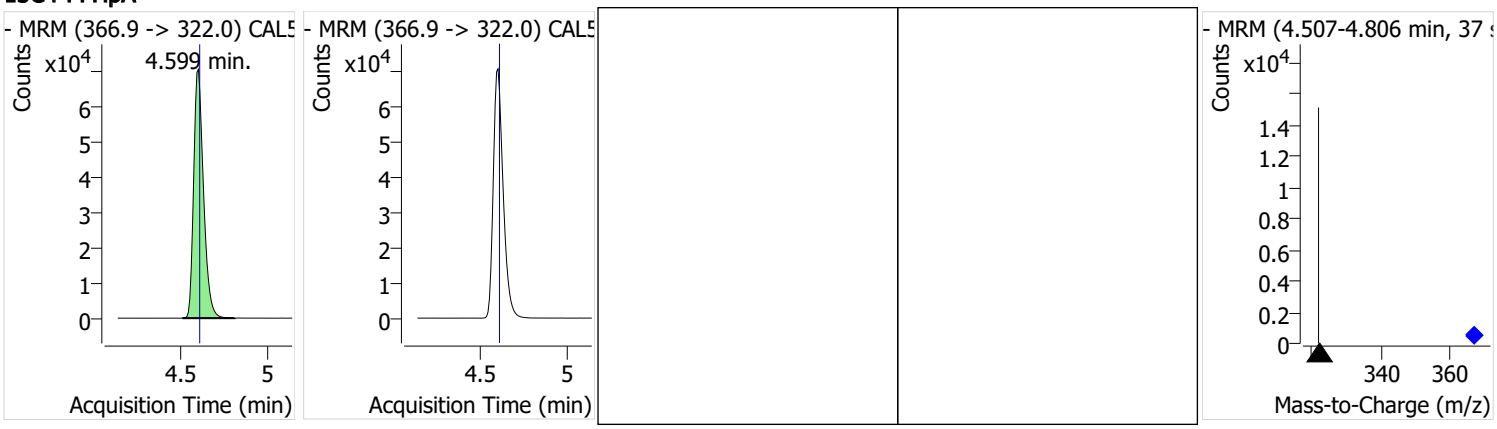

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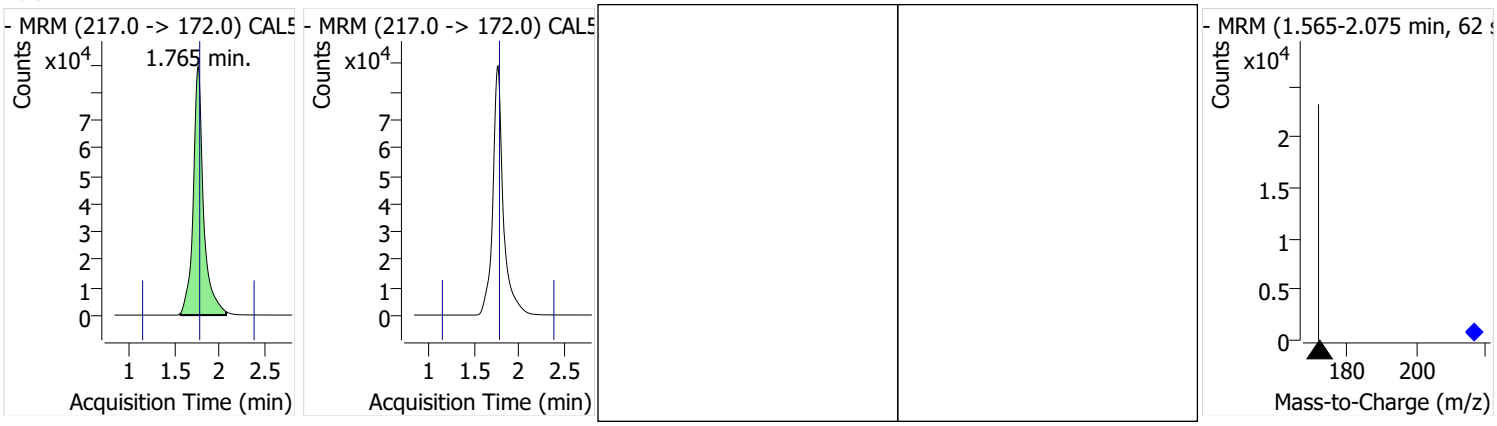
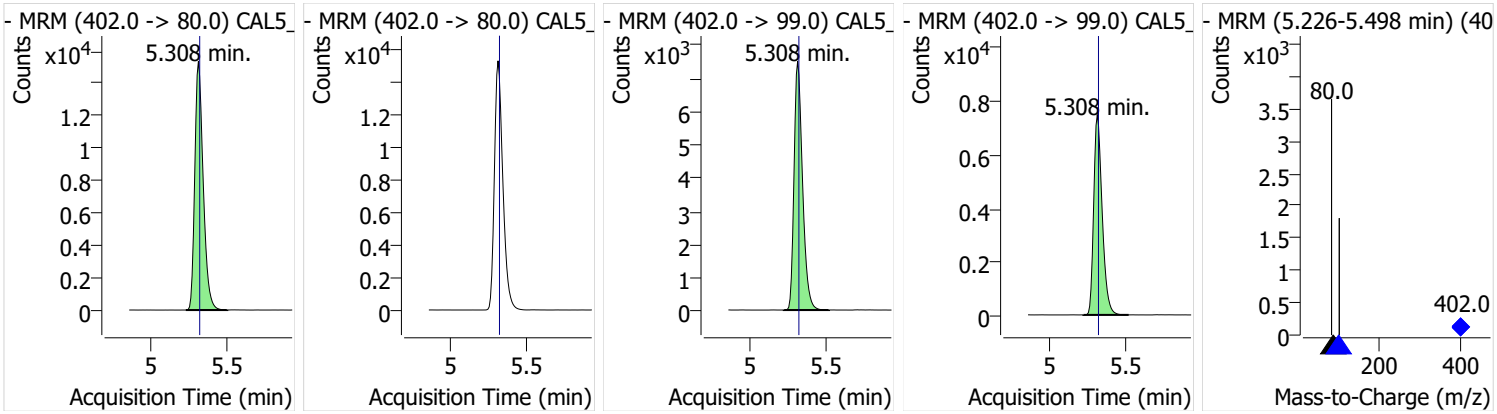
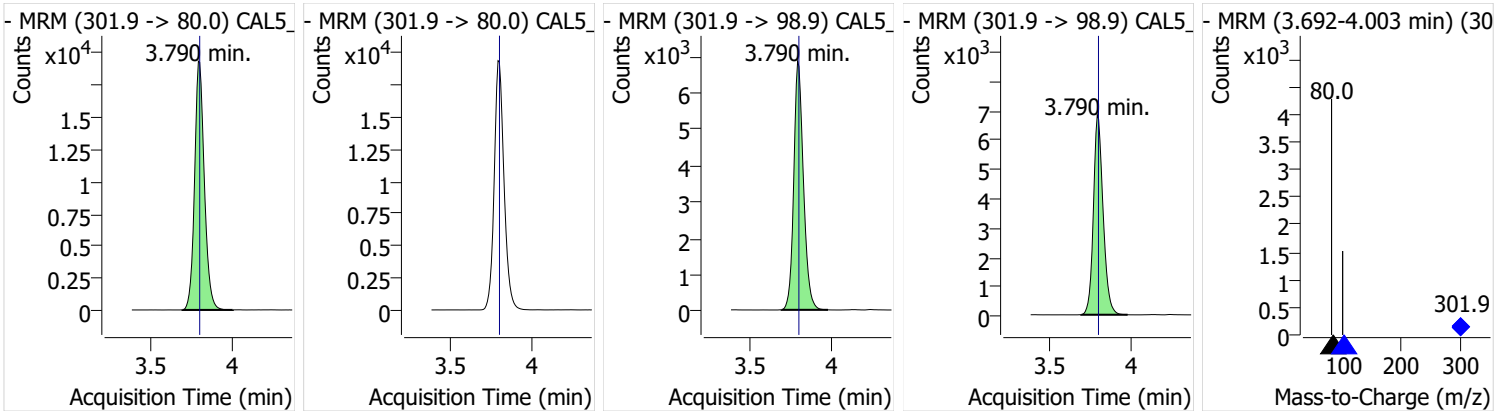


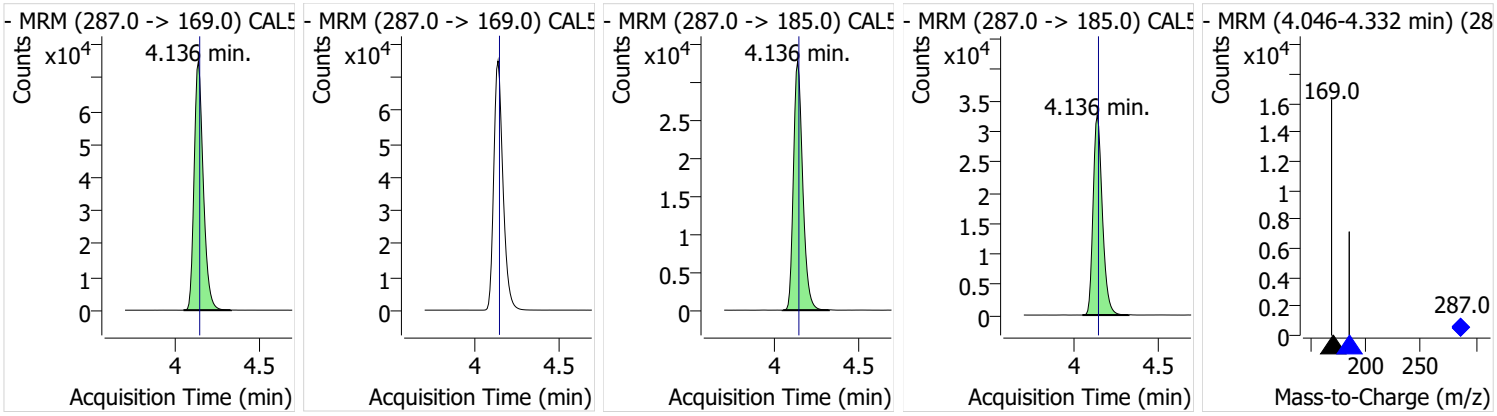
13C3-PFHxS



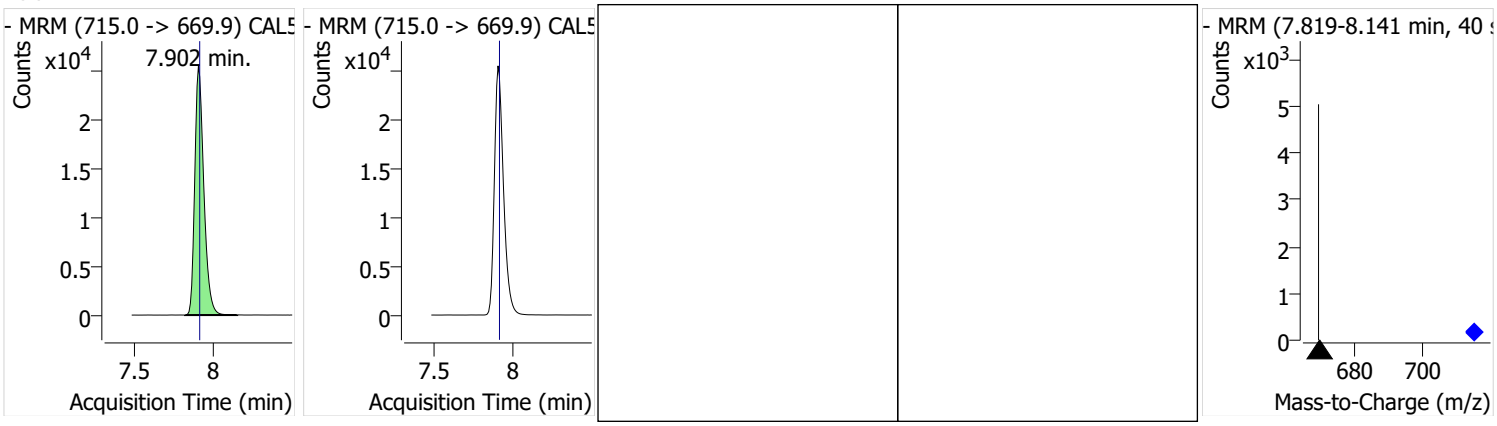
13C3-PFBS



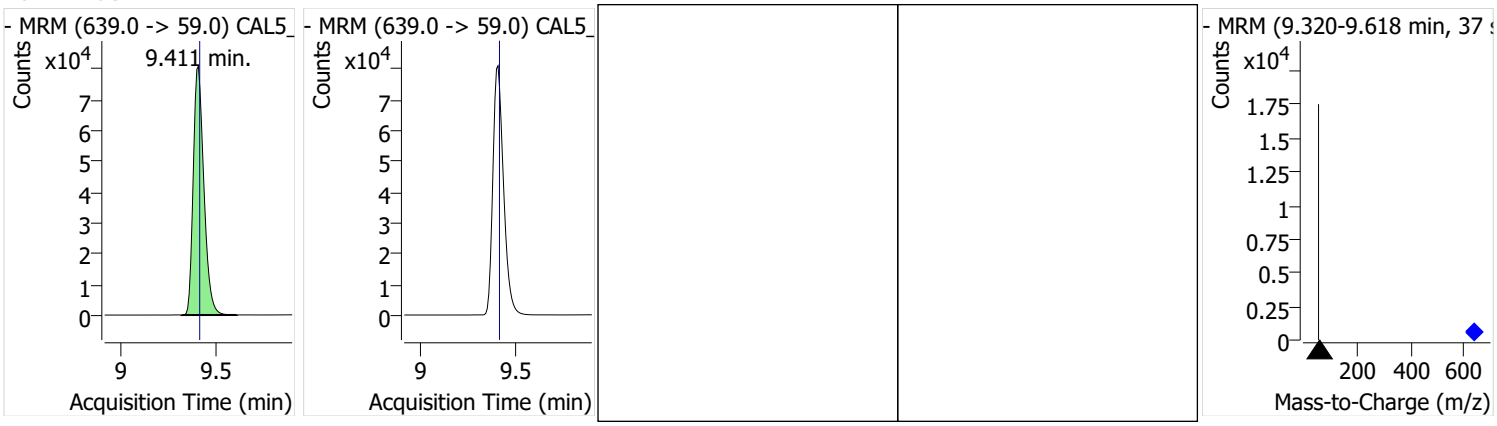
13C3-HFPODA



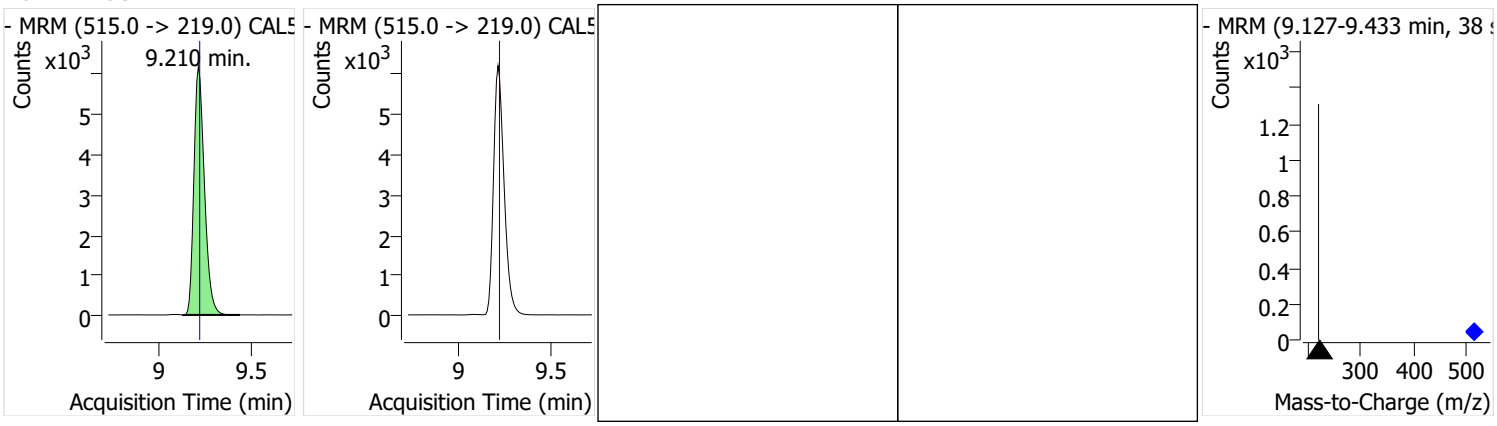
13C2-PFTeDA



D9-NEtFOSE



D3-NMeFOSA



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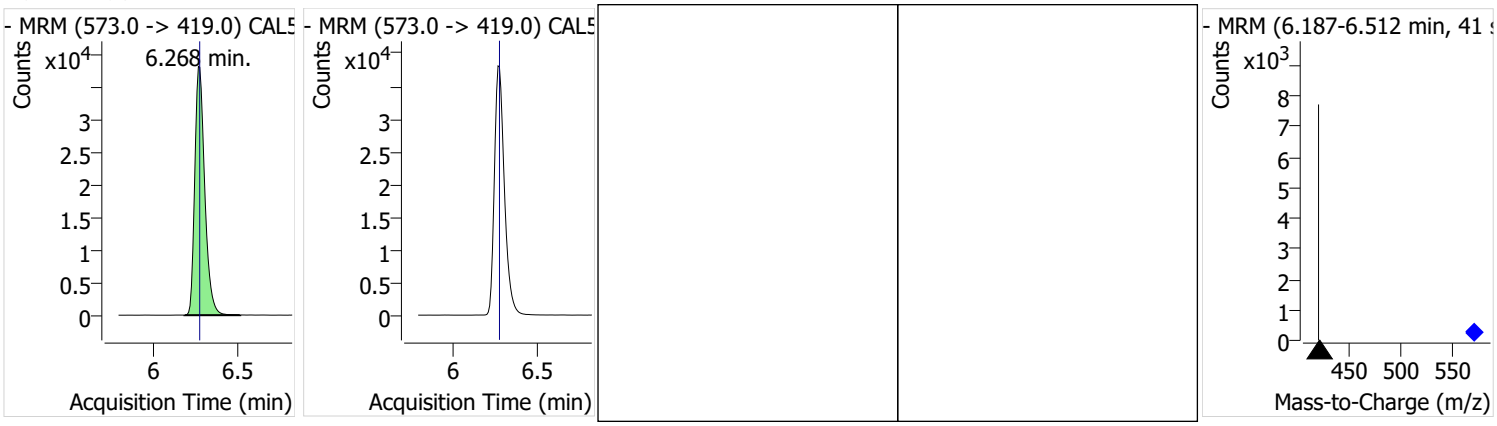

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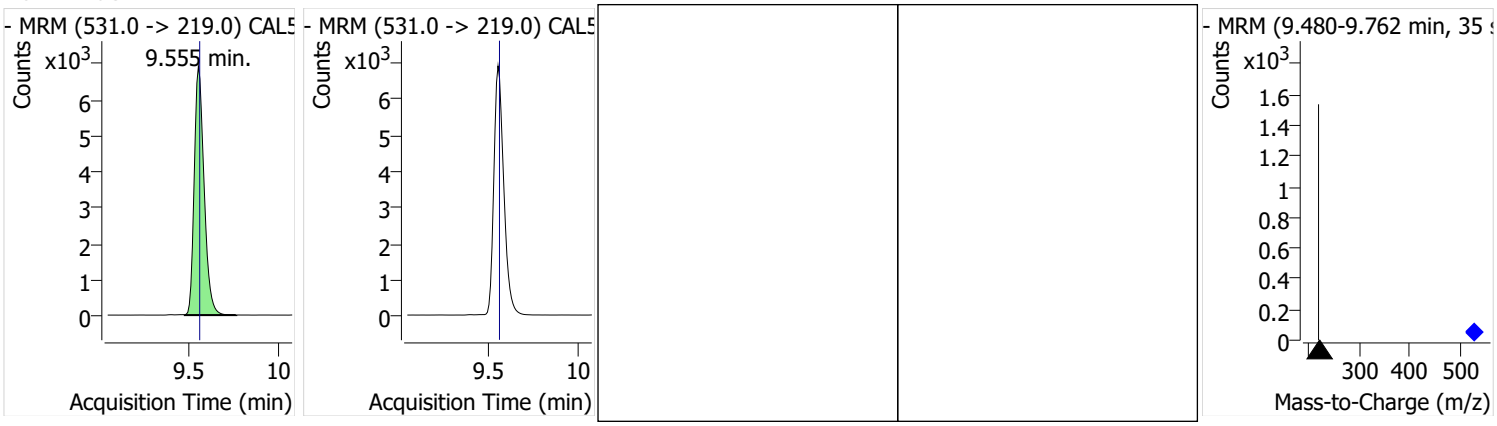

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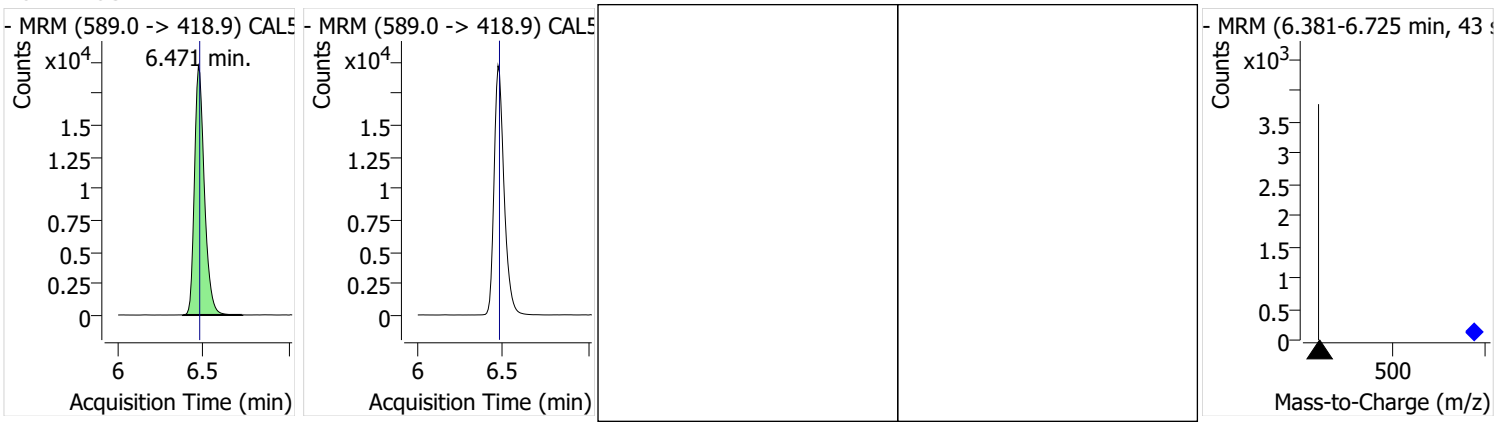

D7-NMeFOSE

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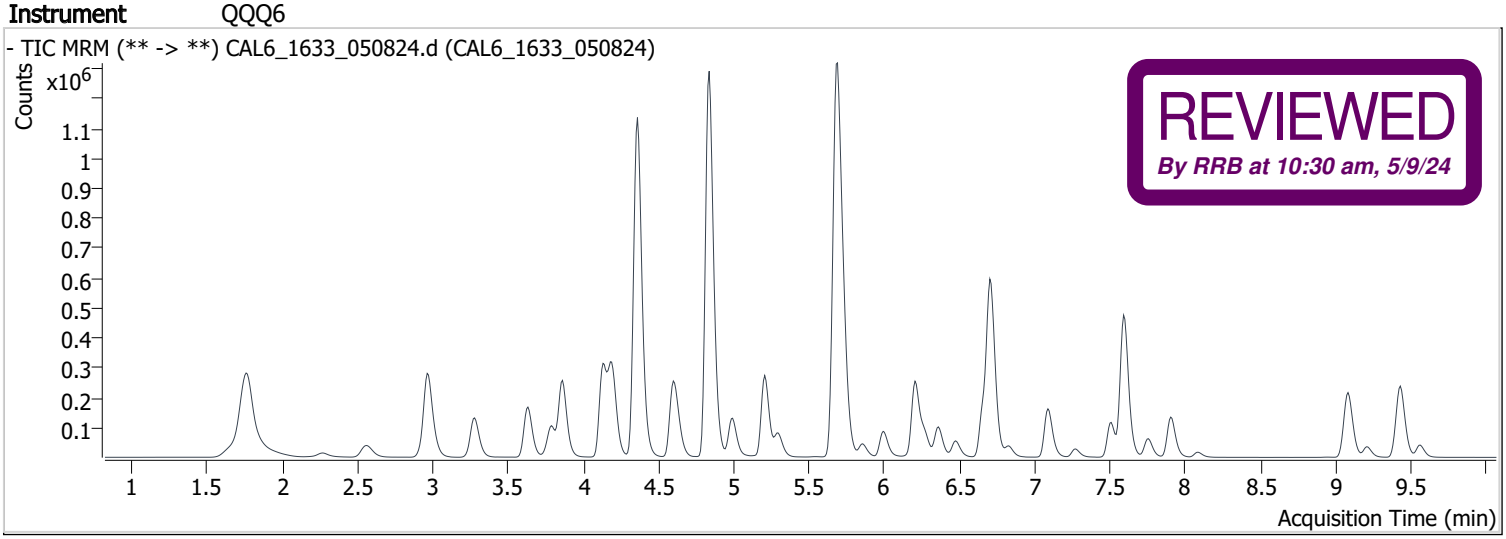
Analysis Time	5/9/2024 9:16 AM	**Last Calib Update**	5/9/2024 9:16 AM
Acq. Time	5/8/2024 7:35 PM	**Data File**	CAL6_1633_050824.d
Sample Type	Cal	**Sample Name**	CAL6_1633_050824
Dilution	1	**Acq. Method**	1633_ACQUISITION_01.m
Sample Comment	E#24E0159	**Processing method**	1633_042924.m
Instrument	QQQ6		



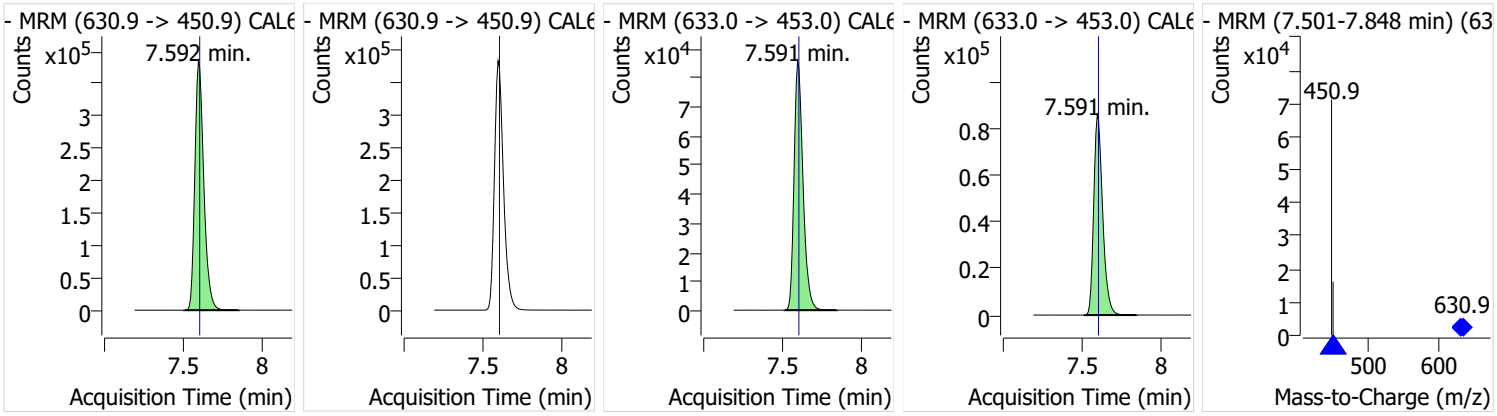
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
11Cl-PF3OUdS	7.592	1519375	126234.96		13C3-HFPODA - ISTD	4.136	273257	18.8414	ng/ml			
633.0 -> 453.0			24816.94	22.2								
3:3FTCA	2.557	146582	40684.62		13C5-PFPeA - ISTD	2.961	425445	48.4742	ng/ml			
241.0 -> 117.0			6622.55	48.1								
4:2FTS	3.631	380390	168039.91		13C2-4:2FTS - ISTD	3.630	34775	18.7391	ng/ml			
327.0 -> 80.9			67834.48	38.4								
5:3FTCA	4.359	2356989	181807.73		13C5-PFHxA - ISTD	3.861	234786	251.9377	ng/ml			
341.0 -> 217.0			371376.52	90.2								
6:2FTS	4.991	287356	43381.26		13C2-6:2FTS - ISTD	4.990	22452	18.8939	ng/ml			
427.0 -> 80.9			41265.18	32.2								
7:3FTCA	5.683	2754744	27080.15		13C5-PFHxA - ISTD	3.861	234786	250.0303	ng/ml			
441.0 -> 317.0			14027.29	87.8								
8:2FTS	5.992	181627	30254.07		13C2-8:2FTS - ISTD	5.991	18703	19.0225	ng/ml			
527.0 -> 81.0			32774.45	40.9								
9Cl-PF3ONS	6.704	1670868	74435.49		13C3-HFPODA - ISTD	4.136	273257	18.5285	ng/ml			
533.0 -> 353.0			31218.15	30.6								
ADONA	4.838	3654380	31040.80		13C3-HFPODA - ISTD	4.136	273257	17.9991	ng/ml			
377.0 -> 85.1			31075.35	35.5								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA	4.137	510529	18533.67		13C3-HFPODA - ISTD	4.136	273257	20.3023	ng/ml			
285.0 -> 184.9			20824.49	52.7								
NEtFOSA	9.565	63843	39043.21		D5-NEtFOSA - ISTD	9.555	24992	4.9171	ng/ml			
526.0 -> 219.0			25760.05	95.6								
NEtFOSAA	6.472	93127	5282.30		D5-NEtFOSAA - ISTD	6.471	78463	4.9030	ng/ml	✔	3	AMS 05/09/24
584.0 -> 526.0			4566.49	66.9								
NEtFOSE	9.428	702225	238977.90		D9-NEtFOSE - ISTD	9.403	316027	49.7356	ng/ml			
NFDHA	3.775	78193	17431.21		13C5-PFHxA - ISTD	3.861	234786	9.8516	ng/ml			
295.0 -> 85.0			6415.25	34.5								
NMeFOSA	9.211	56142	42418.22		D3-NMeFOSA - ISTD	9.210	23685	4.8936	ng/ml			
512.0 -> 219.0			22418.41	92.0								
NMeFOSAA	6.269	61481	4020.48		D3-NMeFOSAA - ISTD	6.268	150610	4.8138	ng/ml	✔	3	AMS 05/09/24
570.0 -> 418.9			4298.41	67.2								
NMeFOSE	9.082	626478	236346.43		D7-NMeFOSE - ISTD	9.065	291891	49.7077	ng/ml			
PFBA	1.762	1259105	41611.24		13C4-PFBA - ISTD	1.765	697255	19.5631	ng/ml			
PFBS	3.791	171243	34521.50		13C3-PFBS - ISTD	3.790	77855	4.4065	ng/ml			
298.9 -> 98.8			12450.59	38.6								
PFDA	6.206	559808	9004.28		13C6-PFDA - ISTD	6.205	142742	4.7590	ng/ml			
513.0 -> 219.0			59658.96	16.9								
PFDoA	7.087	464010	19615.06		13C2-PFDoA - ISTD	7.087	115910	4.8296	ng/ml			
613.0 -> 319.0			10120.86	13.2								
PFDoS	8.086	40253	20233.66		13C8-PFOS - ISTD	6.362	42908	4.7075	ng/ml			
698.9 -> 99.0			17525.42	62.1								
PFDS	7.271	65963	16123.72		13C8-PFOS - ISTD	6.362	42908	4.7185	ng/ml			
599.0 -> 98.8			19178.98	59.5								
PFEESA	4.189	1019782	139672.42		13C5-PFHxA - ISTD	3.861	234786	8.6302	ng/ml			
315.0 -> 83.0			18054.11	7.1								
PFHpA	4.599	538614	24703.73		13C4-PFHpA - ISTD	4.599	265603	4.8653	ng/ml			
362.9 -> 169.0			9023.62	18.0								
PFHpS	5.857	104463	14245.04		13C8-PFOS - ISTD	6.362	42908	4.6187	ng/ml			
449.0 -> 98.8			16217.63	51.7								

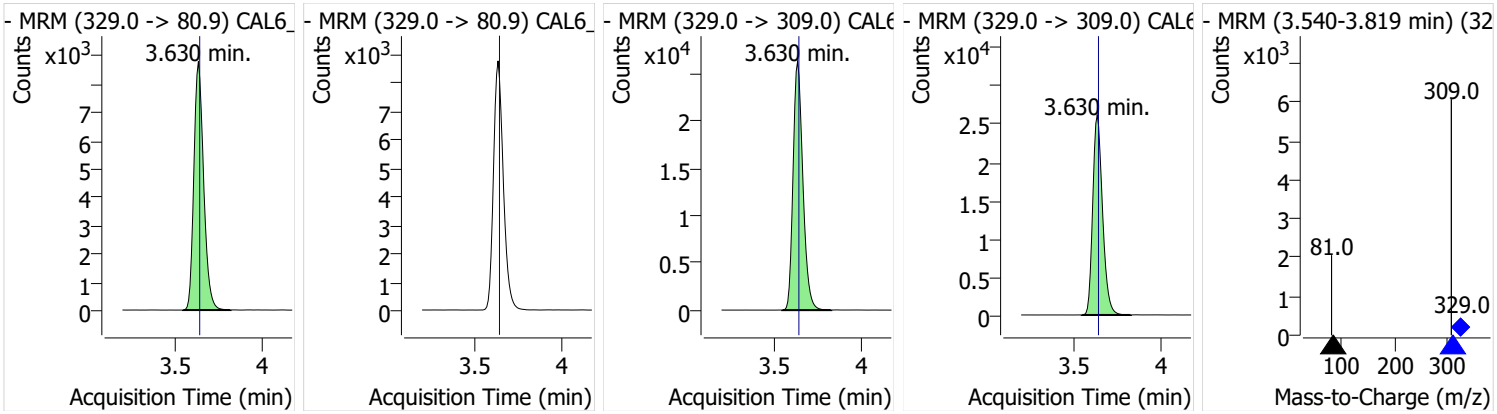
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFHxA	3.863	472633	10054.59		13C5-PFHxA - ISTD	3.861	234786	4.9513	ng/ml			
313.0 -> 118.9			2843.48	3.5								
PFHxS	5.301	112666	14696.13		13C3-PFHxS - ISTD	5.300	56563	4.4121	ng/ml	✔	3	AMS 05/09/24
398.9 -> 99.0			13630.15	44.9								
PFMBA	3.280	560993	293941.81		13C5-PFPeA - ISTD	2.961	425445	9.5772	ng/ml			
PFMPA	2.267	86277	9280.00		13C5-PFPeA - ISTD	2.961	425445	9.2656	ng/ml			
PFNA	5.730	576605	11094.25		13C9-PFNA - ISTD	5.730	147330	4.8673	ng/ml			
463.0 -> 219.0			19335.60	21.3								
PFNS	6.834	82721	11982.26		13C8-PFOS - ISTD	6.362	42908	4.7357	ng/ml			
549.0 -> 98.8			18469.33	53.5								
PFOA	5.207	601886	5745.24		13C8-PFOA - ISTD	5.206	251311	4.7704	ng/ml			
413.0 -> 169.0			6637.16	24.4								
PFOS	6.363	96364	9305.88		13C8-PFOS - ISTD	6.362	42908	4.3210	ng/ml	✔	3	AMS 05/09/24
499.0 -> 99.0			7301.76	47.2								
PFOSA	7.761	162288	1213260.52		13C8-PFOSA - ISTD	7.760	73110	5.0274	ng/ml			
497.9 -> 478.0			25234.50	3.0								
PFPeA	2.962	842529	18358.94		13C5-PFPeA - ISTD	2.961	425445	9.8054	ng/ml			
263.0 -> 69.0			926.82	0.3								
PFPeS	4.633	139580	15425.67		13C3-PFHxS - ISTD	5.300	56563	4.7620	ng/ml			
349.0 -> 98.9			6050.06	45.5								
PFTeDA	7.902	397778	14173.43		13C2-PFTeDA - ISTD	7.902	99195	4.9839	ng/ml			
713.0 -> 168.9			9216.25	7.8								
PFTrDA	7.508	410603	10624.73		13C2-PFDoA - ISTD	7.087	115910	5.0166	ng/ml			
663.0 -> 168.9			5357.71	12.4								
PFUnA	6.662	458009	14344.13		13C7-PFUnA - ISTD	6.653	117753	4.8396	ng/ml			
563.0 -> 269.1			7445.92	17.6								
TDCA	6.233	20434	1034.98					-	ng/ml			
499.0 -> 99.0			1138.18	27.5								
13C2-8:2FTS	5.991	18703	11843.97		18O2-PFHxS	5.299	54143	5.2554	ng/ml			
529.0 -> 509.0			31674.04	320.6								
13C2-4:2FTS	3.630	34775	8158.76		18O2-PFHxS	5.299	54143	5.3670	ng/ml			

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
329.0 -> 309.0			31317.93	299.6								
13C2-6:2FTS	4.990	22452	4323.25		18O2-PFHxS	5.299	54143	5.1279	ng/ml			
429.0 -> 409.0			49640.96	407.6								
13C5-PFHxA	3.861	234786	50773.37		13C2-PFHxA	3.861	227572	2.5036	ng/ml			
318.0 -> 120.0			878.80	1.9								
13C6-PFDA	6.205	142742	11084.48		13C2-PFDA	6.205	140266	1.2898	ng/ml			
13C7-PFUnA	6.653	117753	9940.53		13C2-PFDA	6.205	140266	1.3142	ng/ml			
13C8-PFOA	5.206	251311	23628.56		13C4-PFOA	5.207	35928	2.5515	ng/ml			
13C8-PFOS	6.362	42908	4721.23		13C4-PFOS	6.363	46605	2.5609	ng/ml			
507.0 -> 99.0			3932.27	52.3								
13C8-PFOSA	7.760	73110	462966.26		13C4-PFOS	6.363	46605	2.4810	ng/ml			
13C9-PFNA	5.730	147330	12964.07		13C5-PFNA	5.730	169610	1.2738	ng/ml			
13C5-PFPeA	2.961	425445	14118.35		13C2-PFHxA	3.861	227572	5.0622	ng/ml			
13C2-PFDoA	7.087	115910	6843.80		13C2-PFDA	6.205	140266	1.2534	ng/ml			
13C4-PFHpA	4.599	265603	24255.91		13C2-PFHxA	3.861	227572	2.5320	ng/ml			
13C4-PFBA	1.765	697255	223201.31		13C3-PFBA	1.760	318451	10.0847	ng/ml			
13C3-PFHxS	5.300	56563	18627.07		18O2-PFHxS	5.299	54143	2.5581	ng/ml			
402.0 -> 99.0			6418.57	50.1								
13C3-PFBS	3.790	77855	10968.30		18O2-PFHxS	5.299	54143	2.6605	ng/ml			
301.9 -> 98.9			5635.18	34.6								
13C3-HFPODA	4.136	273257	23504.76		13C2-PFHxA	3.861	227572	10.4173	ng/ml			
287.0 -> 185.0			10770.16	44.1								
13C2-PFTeDA	7.902	99195	12191.59		13C2-PFDA	6.205	140266	1.2458	ng/ml			
D9-NEtFOSE	9.403	316027	54548.46		13C4-PFOS	6.363	46605	25.7893	ng/ml			
D3-NMeFOSA	9.210	23685	8535.40		13C4-PFOS	6.363	46605	2.5059	ng/ml			
D3-NMeFOSAA	6.268	150610	33103.60		13C4-PFOS	6.363	46605	4.9886	ng/ml			
D5-NEtFOSA	9.555	24992	19833.91		13C4-PFOS	6.363	46605	2.5349	ng/ml			
D5-NEtFOSAA	6.471	78463	10562.27		13C4-PFOS	6.363	46605	5.1360	ng/ml			
D7-NMeFOSE	9.065	291891	185050.98		13C4-PFOS	6.363	46605	25.4879	ng/ml			

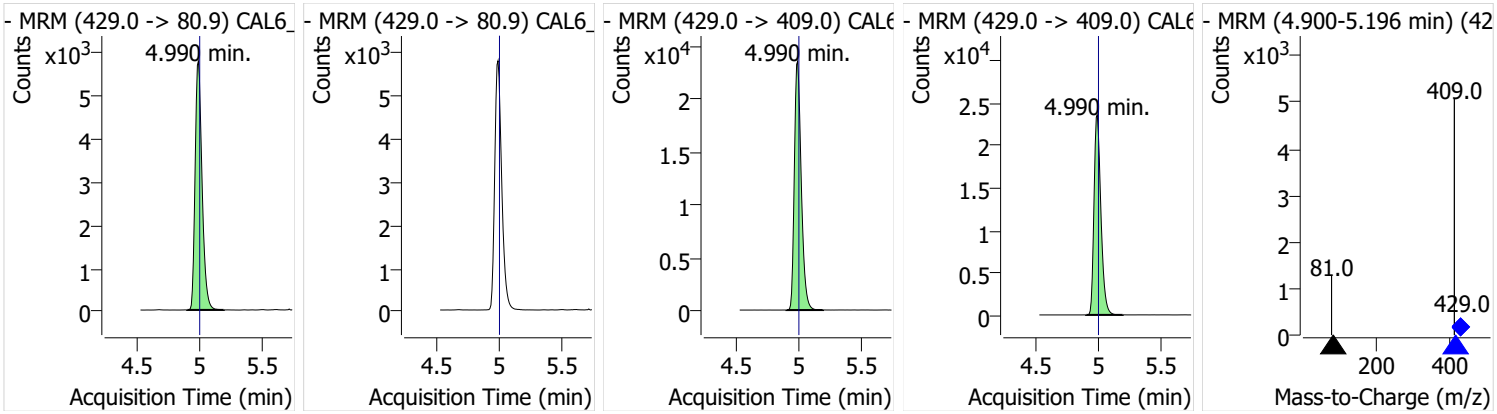
11Cl-PF3OUdS



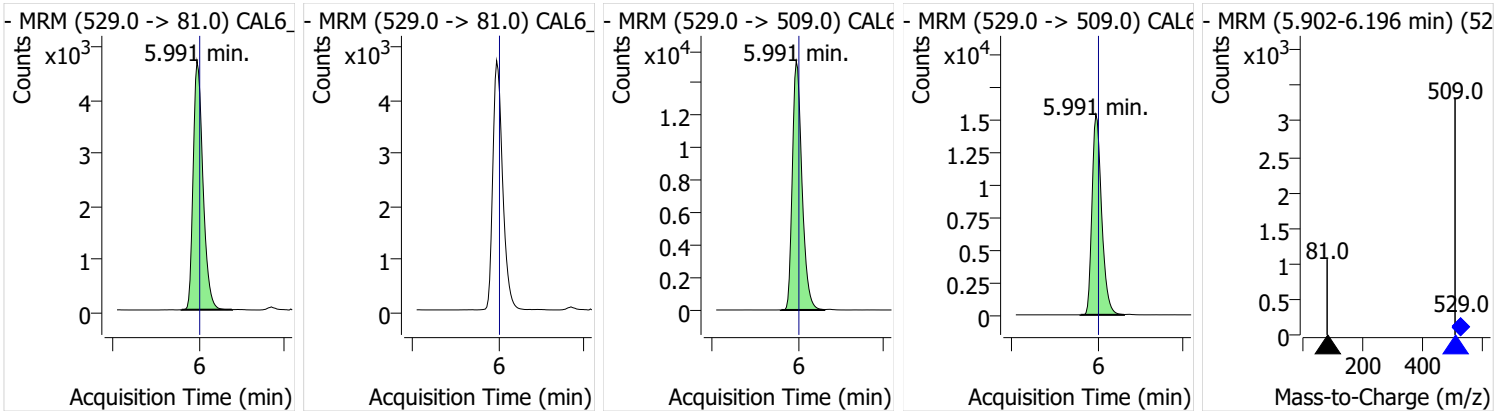
13C2-4:2FTS - ISTD



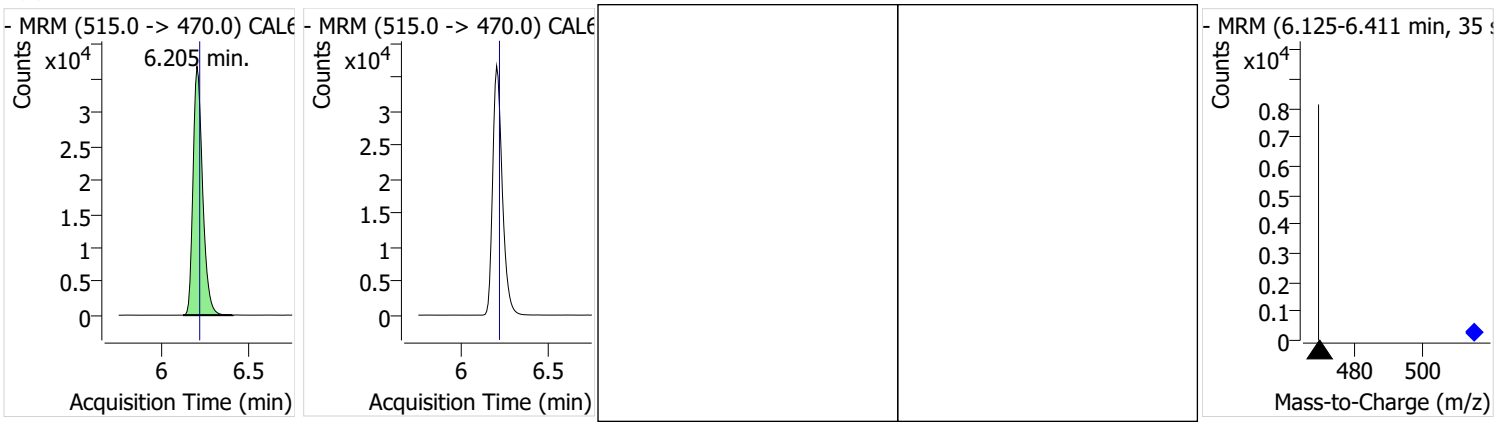
13C2-6:2FTS - ISTD



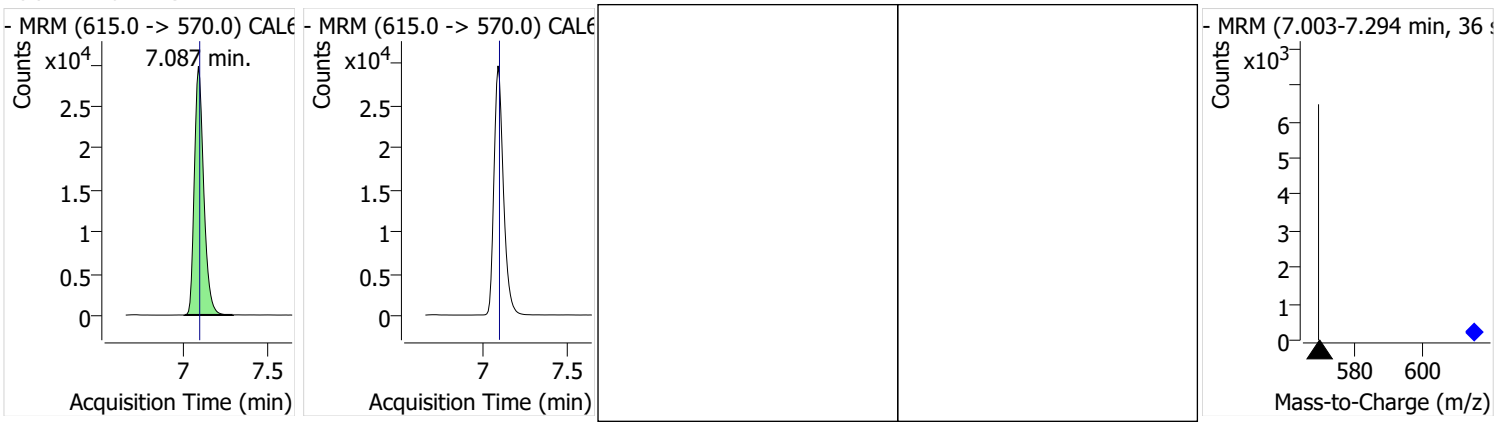
13C2-8:2FTS - ISTD



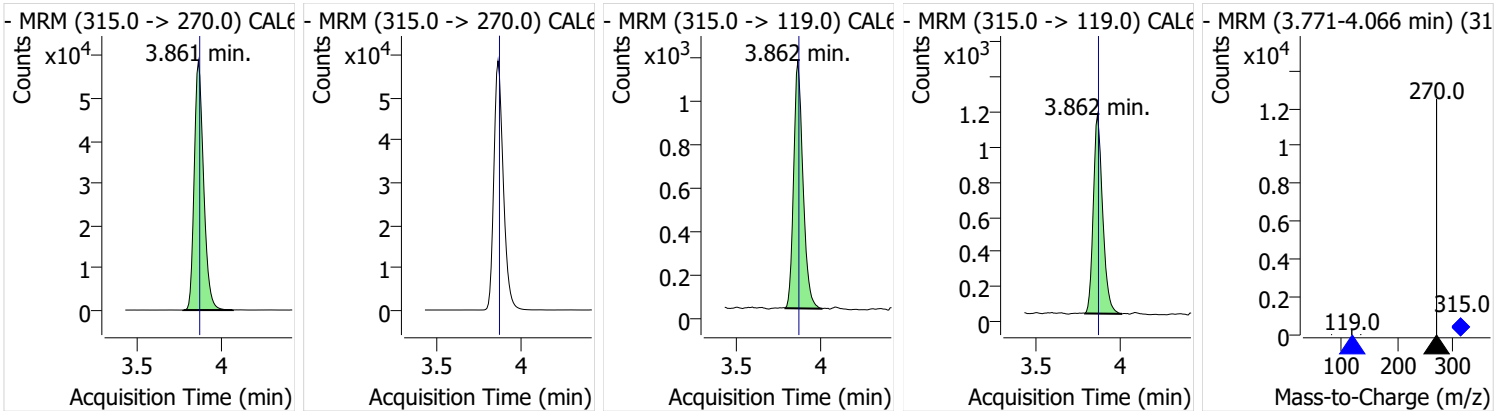
13C2-PFDA



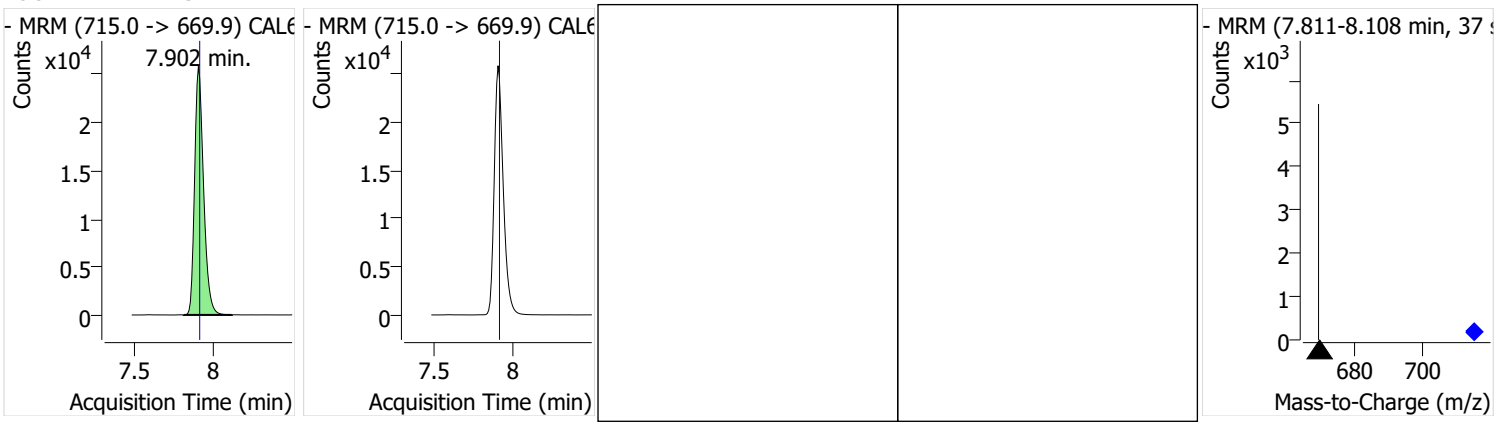
13C2-PFDoA - ISTD



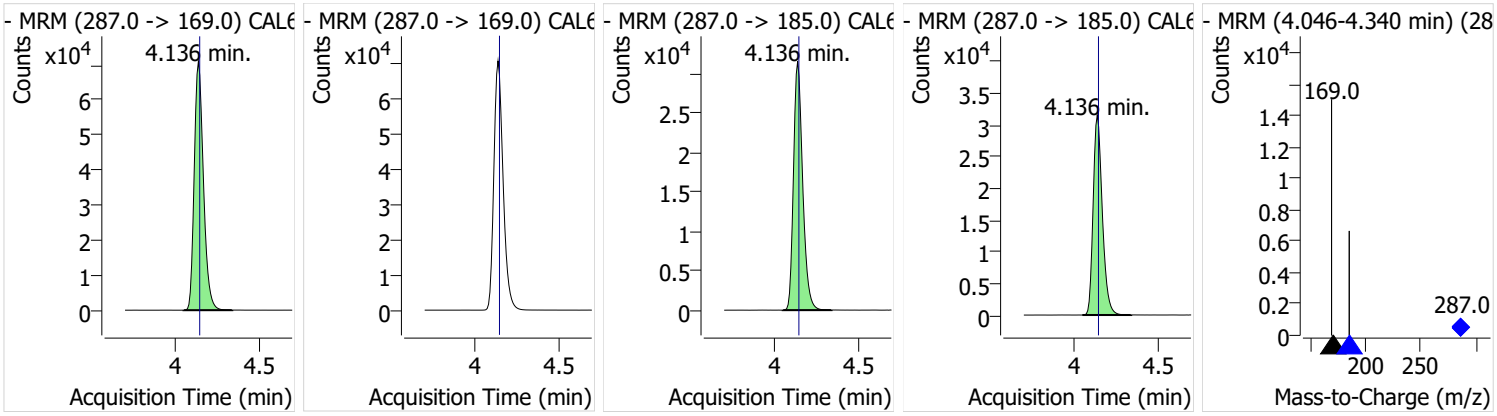
13C2-PFHxA



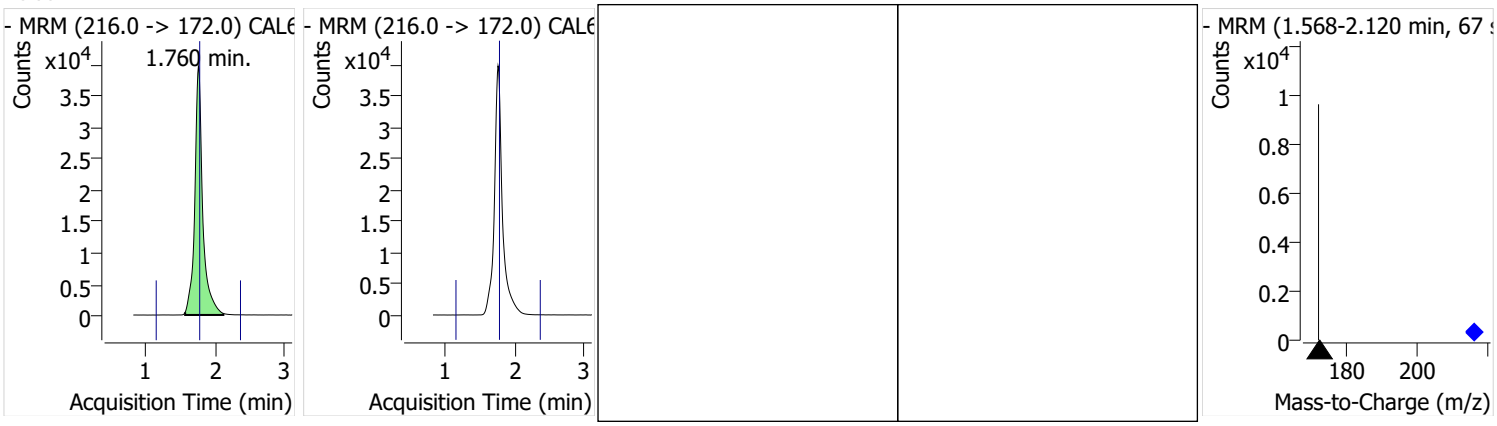
13C2-PFTeDA - ISTD



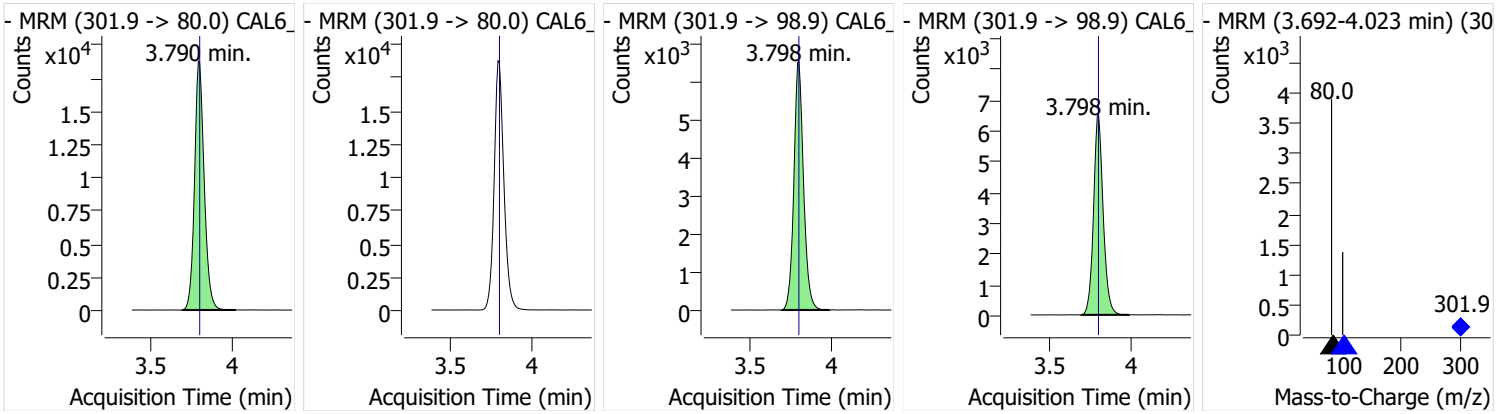
13C3-HFPODA - ISTD



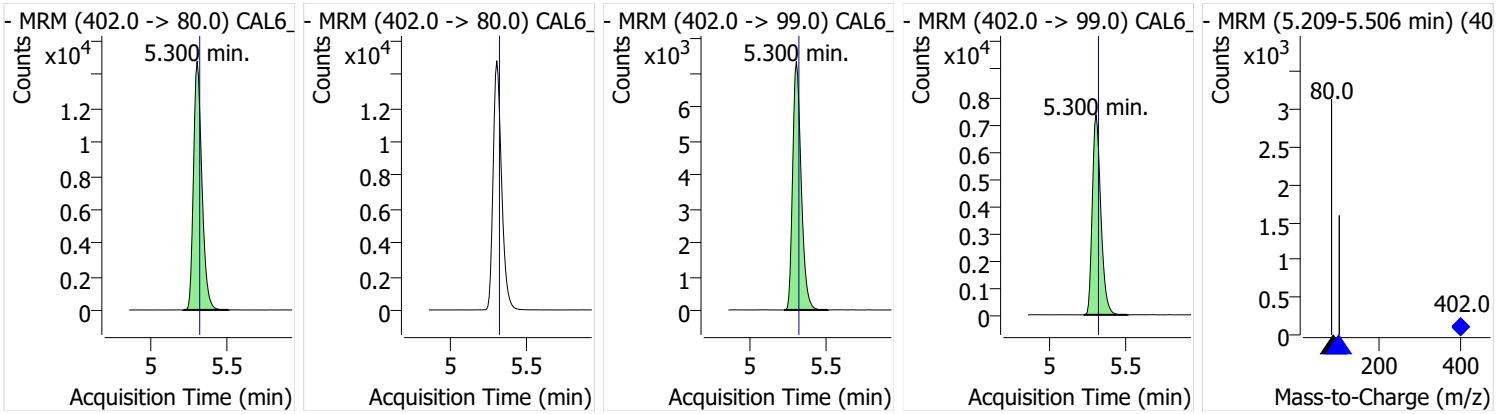
13C3-PFBA



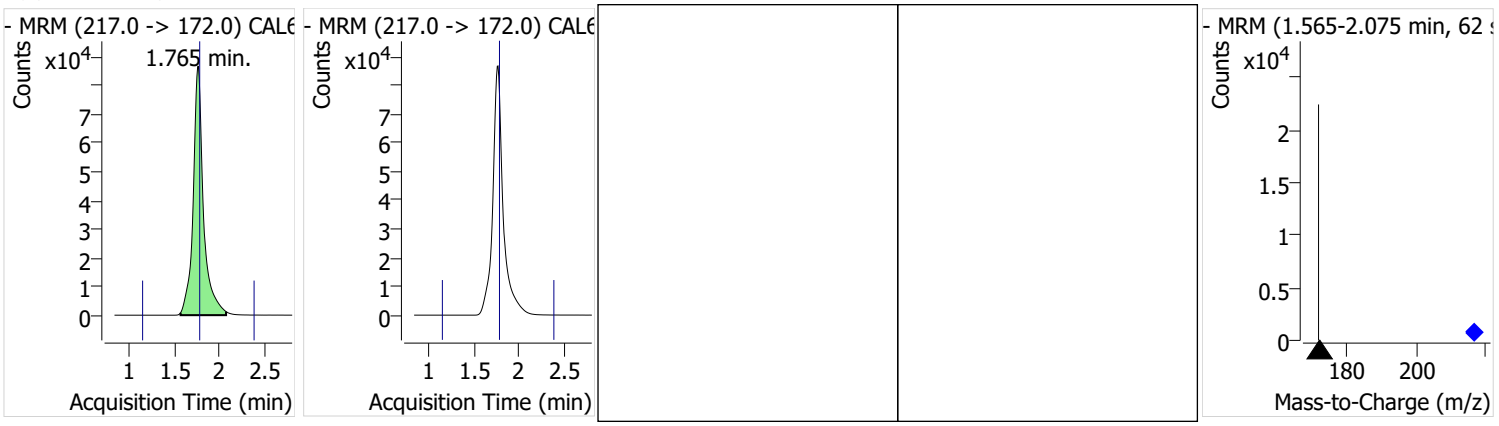
13C3-PFBS - ISTD



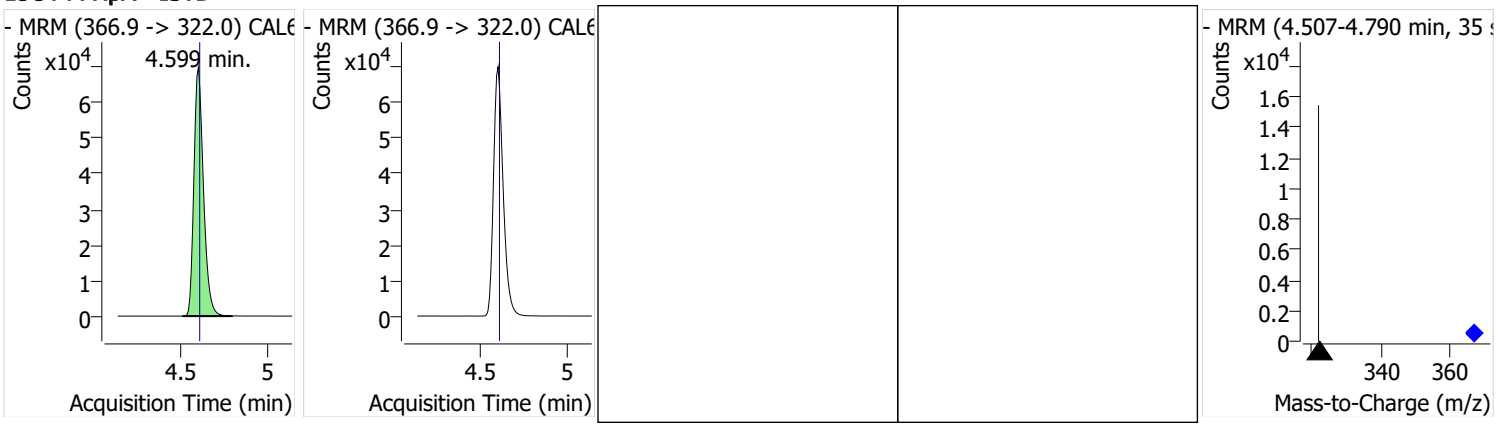
13C3-PFHxS - ISTD



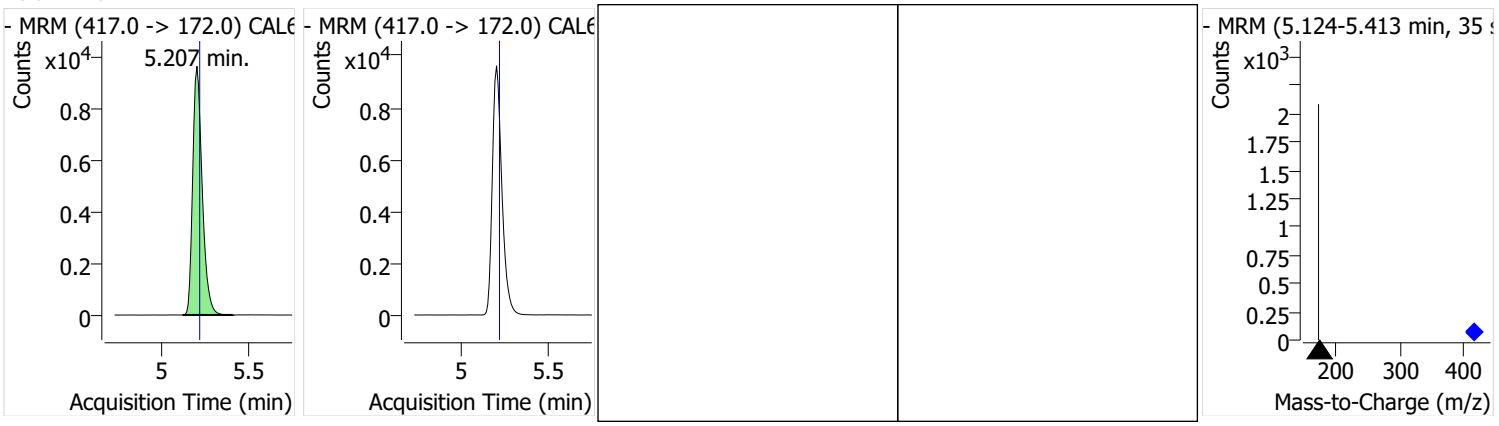
13C4-PFBA - ISTD



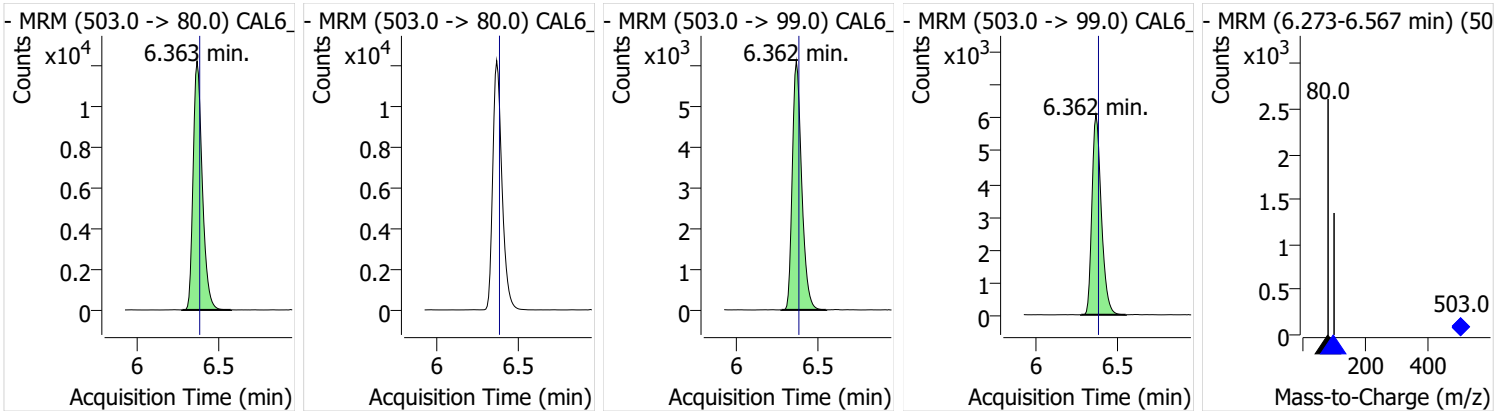
13C4-PFHpA - ISTD



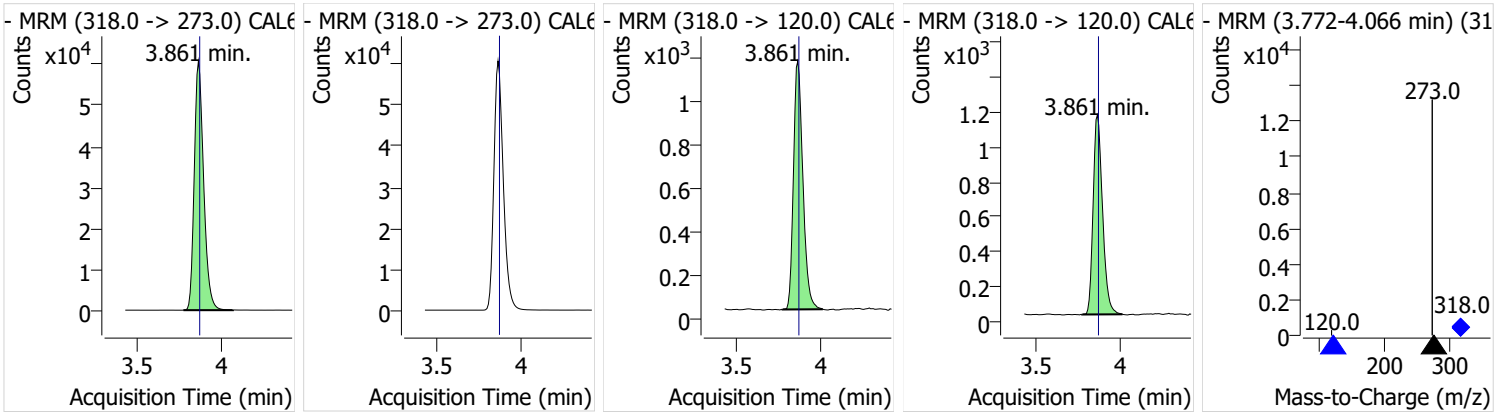
13C4-PFOA



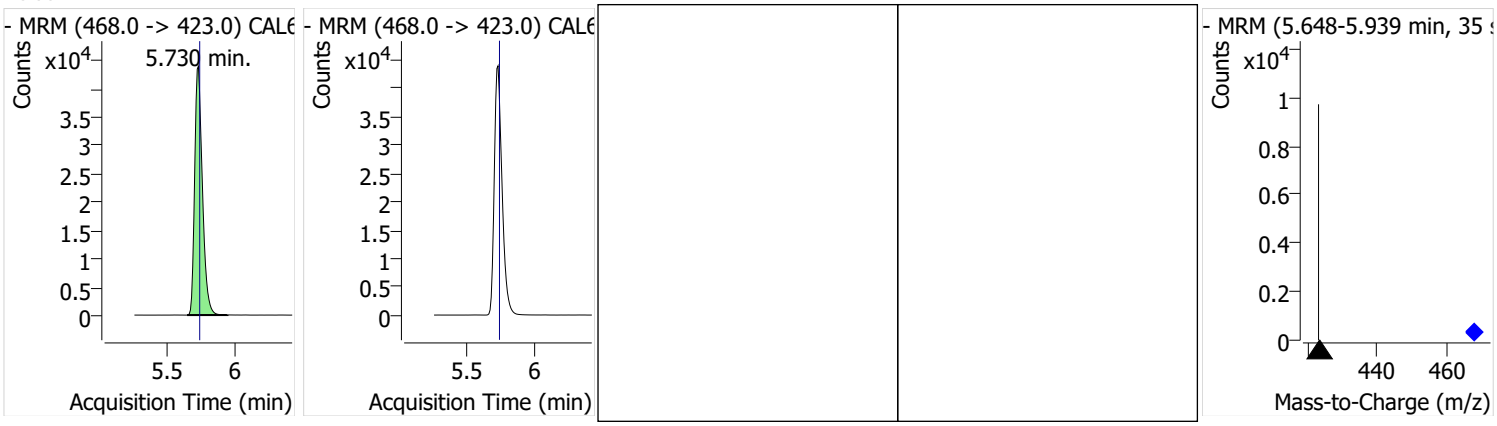
13C4-PFOS



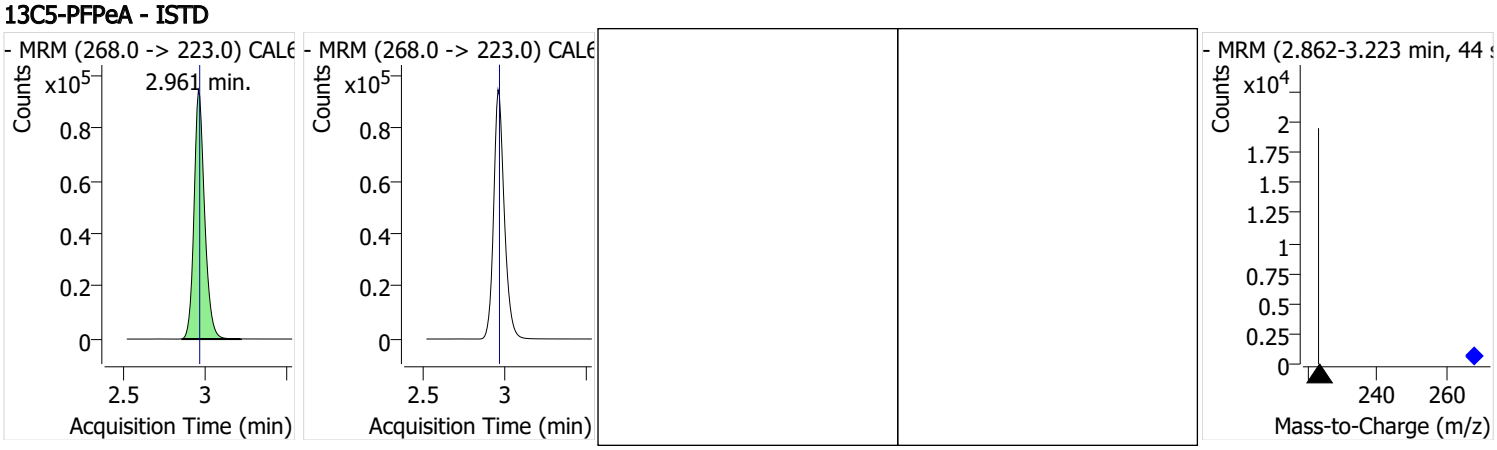
13C5-PFHxA - ISTD



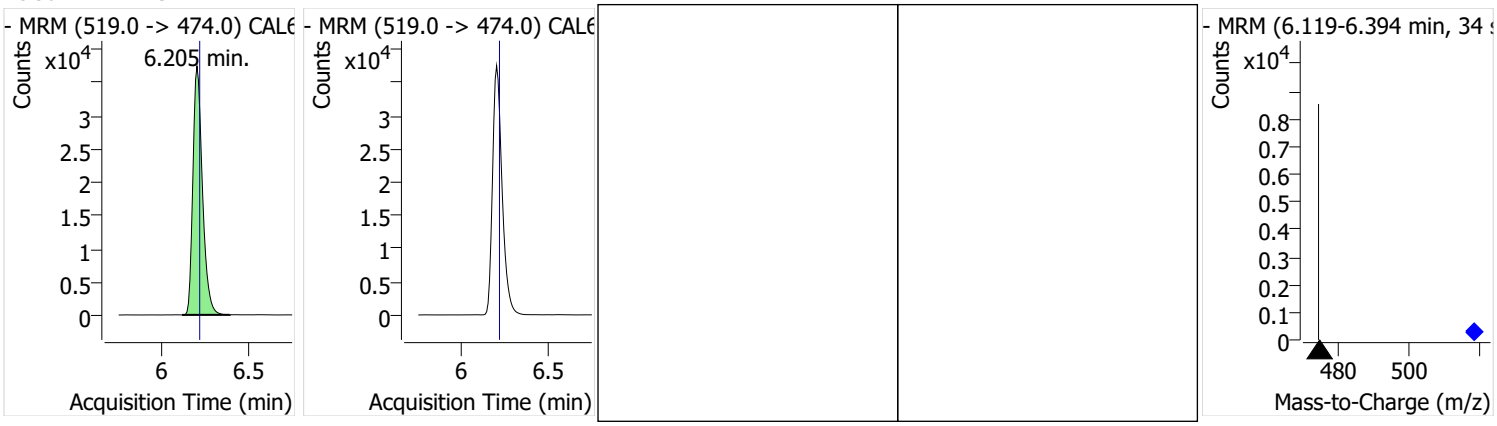
13C5-PFNA



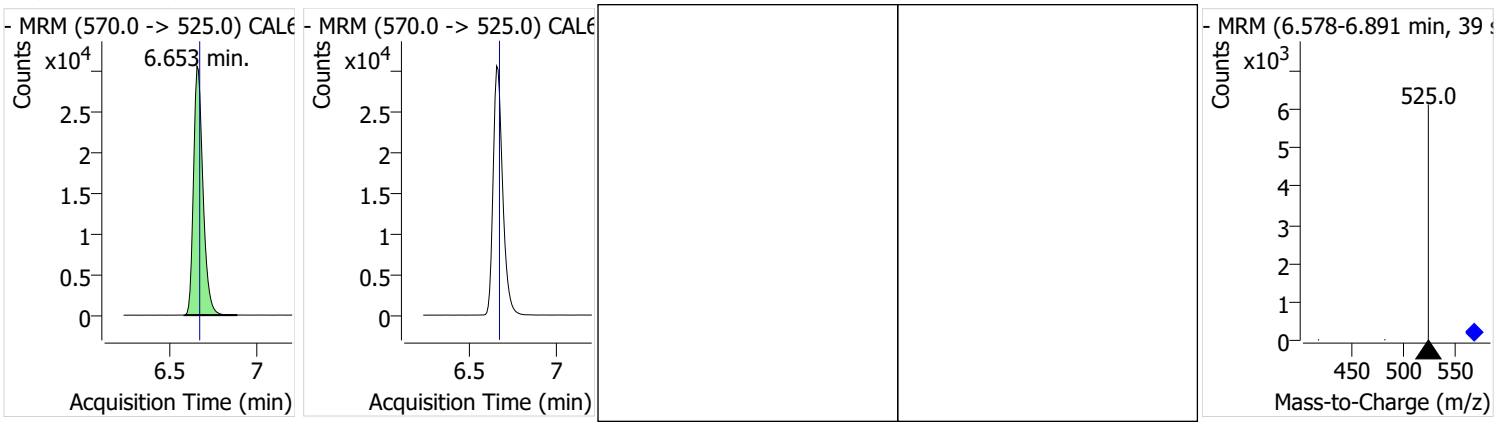
13C5-PFPeA - ISTD



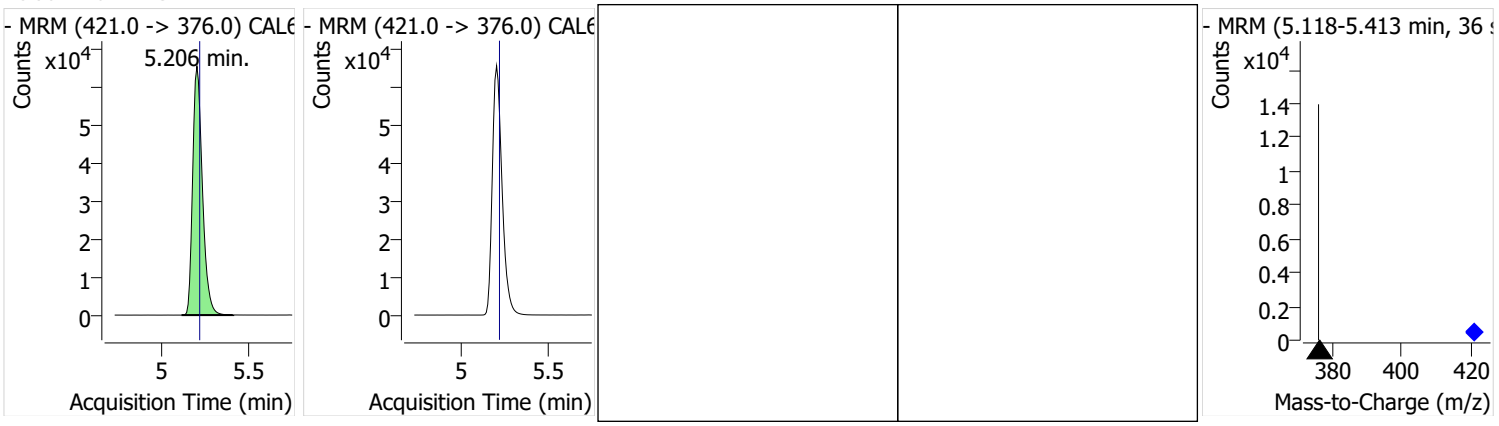
13C6-PFDA - ISTD



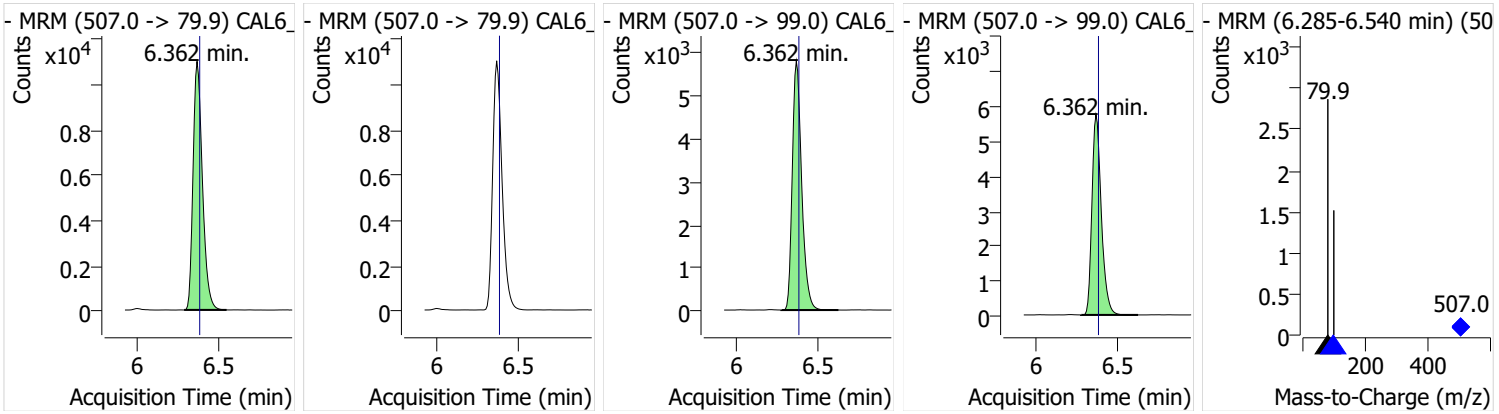
13C7-PFUnA - ISTD



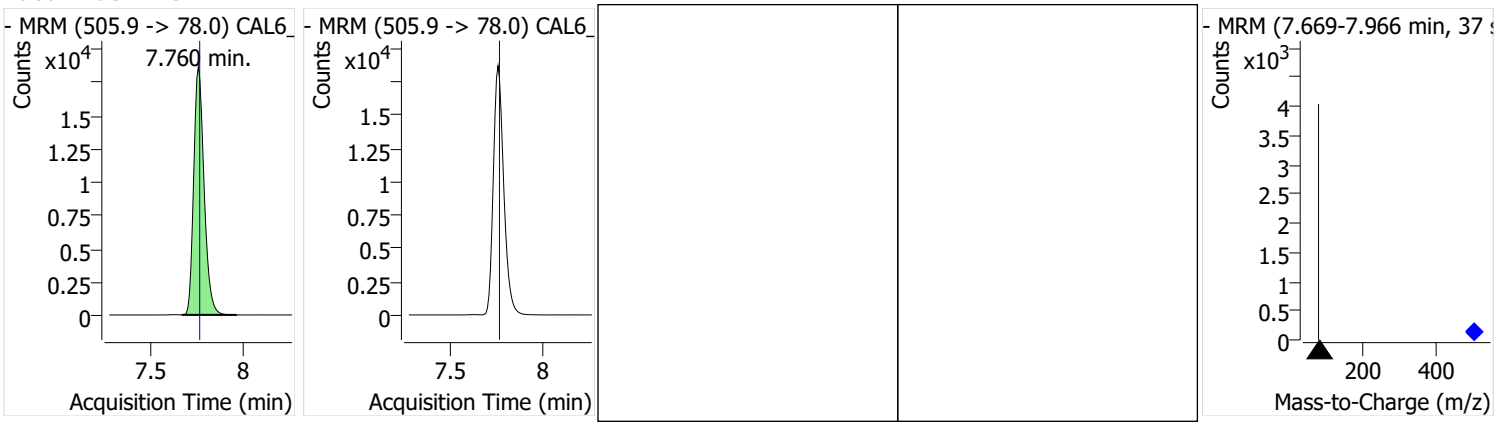
13C8-PFOA - ISTD



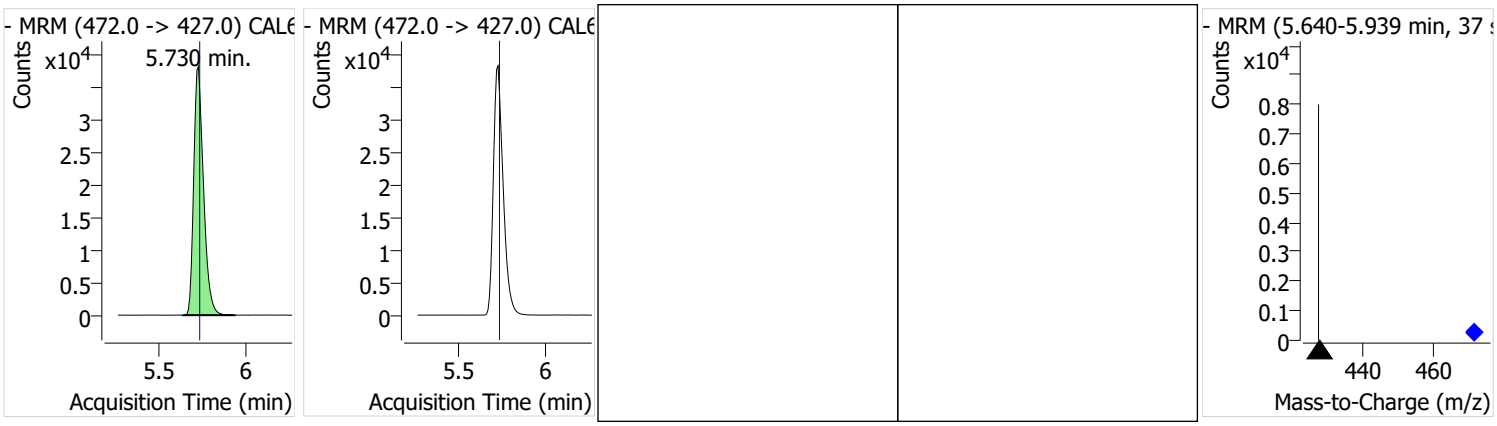
13C8-PFOS - ISTD



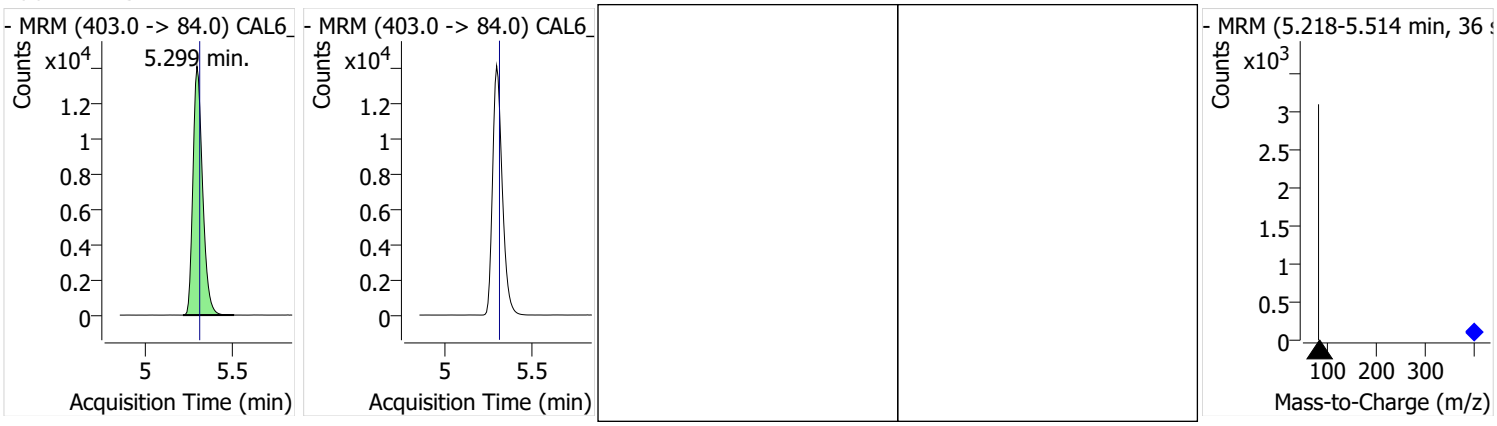
13C8-PFOSA - ISTD



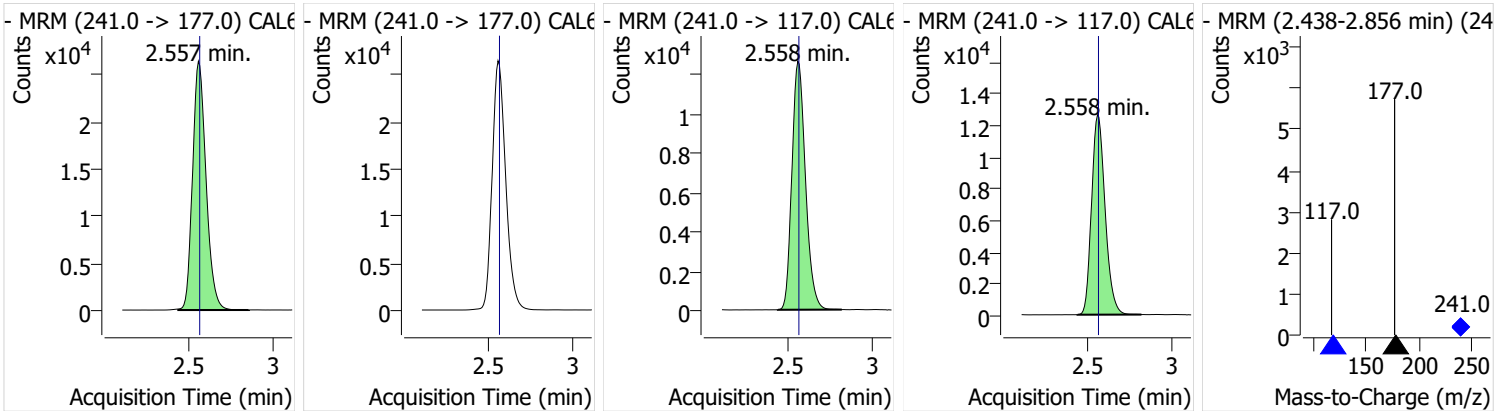
13C9-PFNA - ISTD



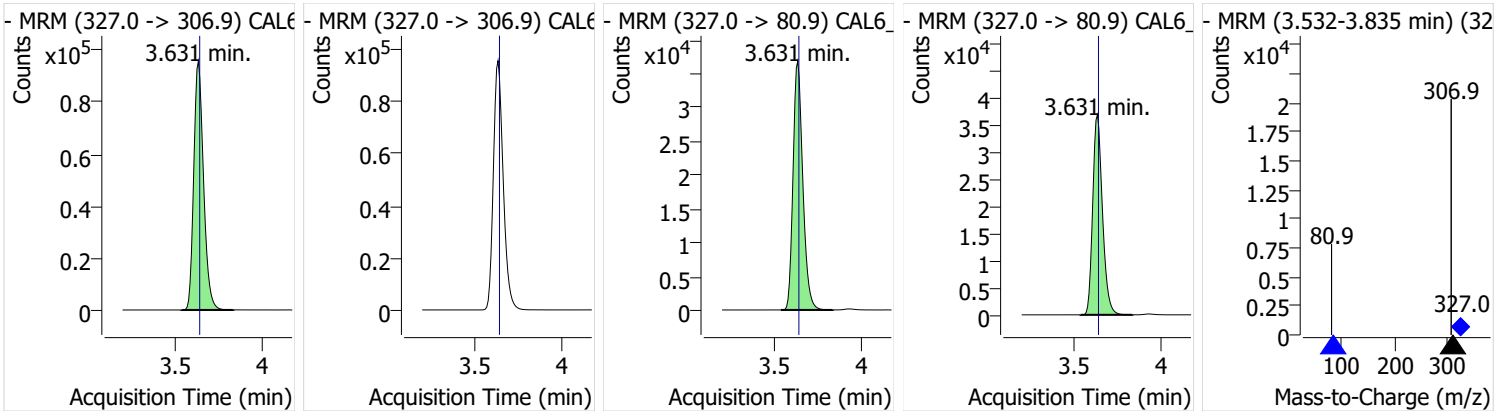
18O2-PFHxS



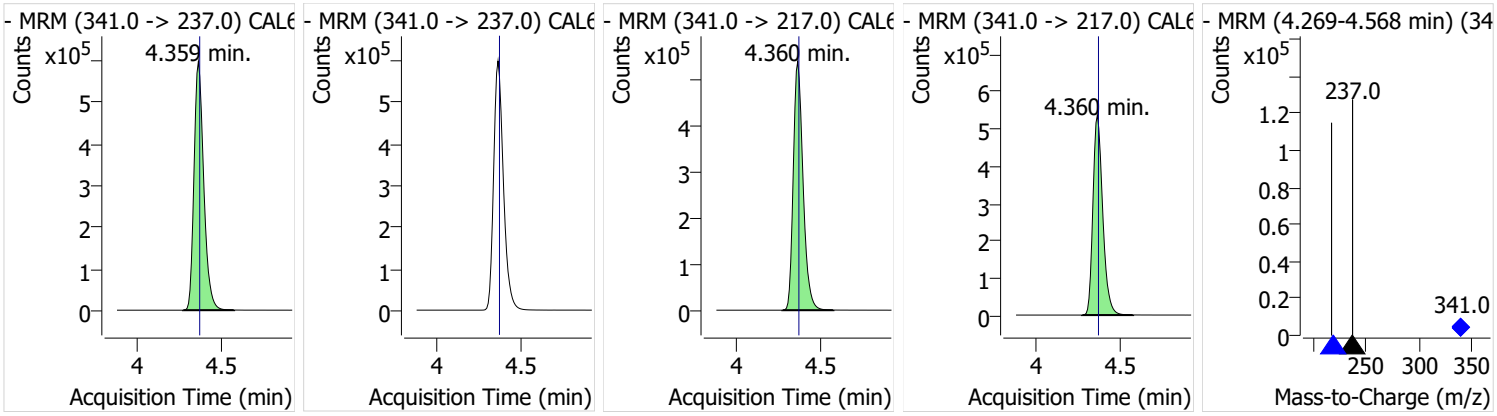
3:3FTCA



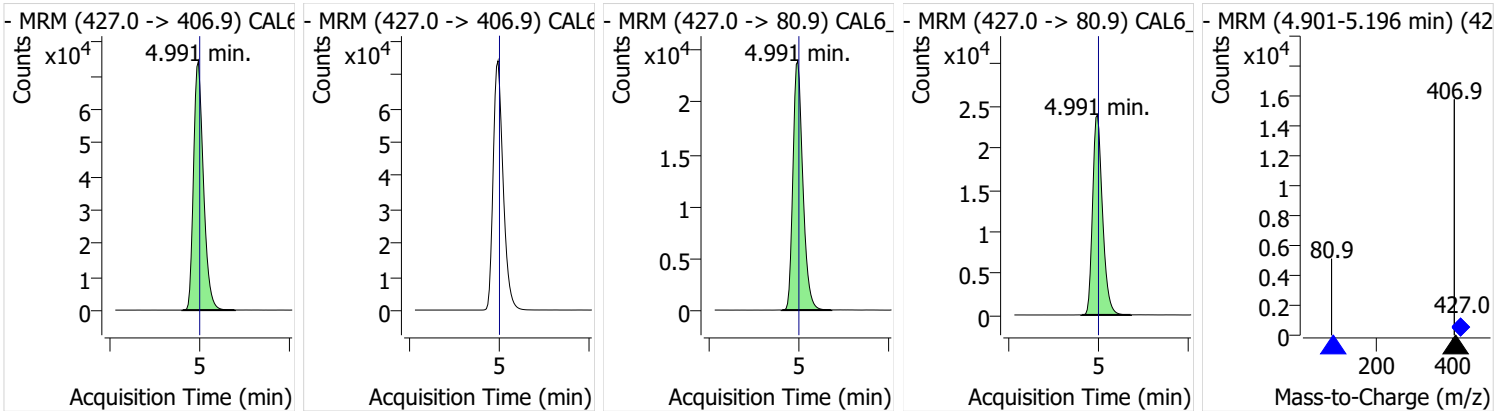
4:2FTS



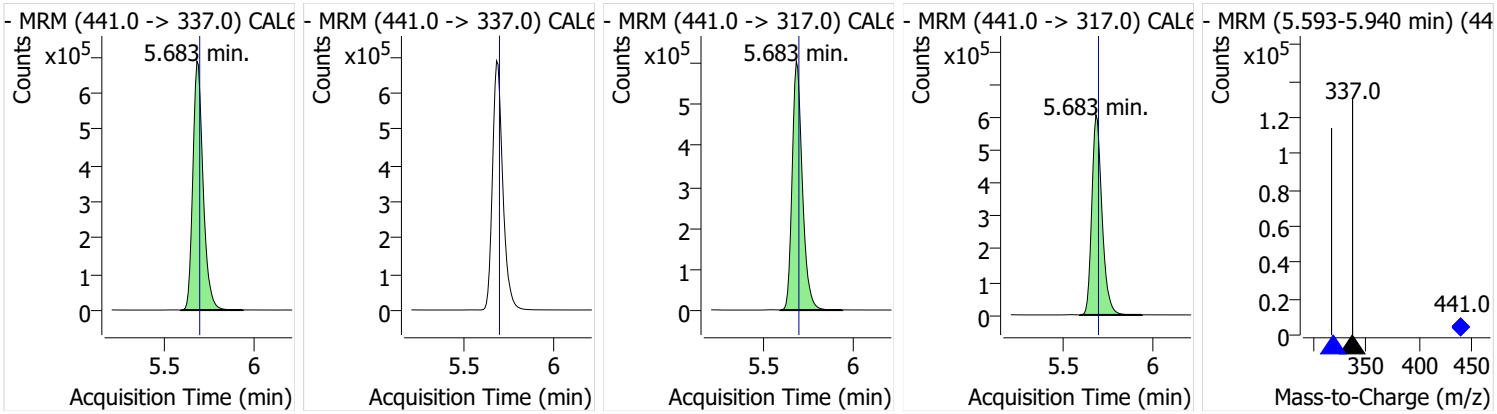
5:3FTCA



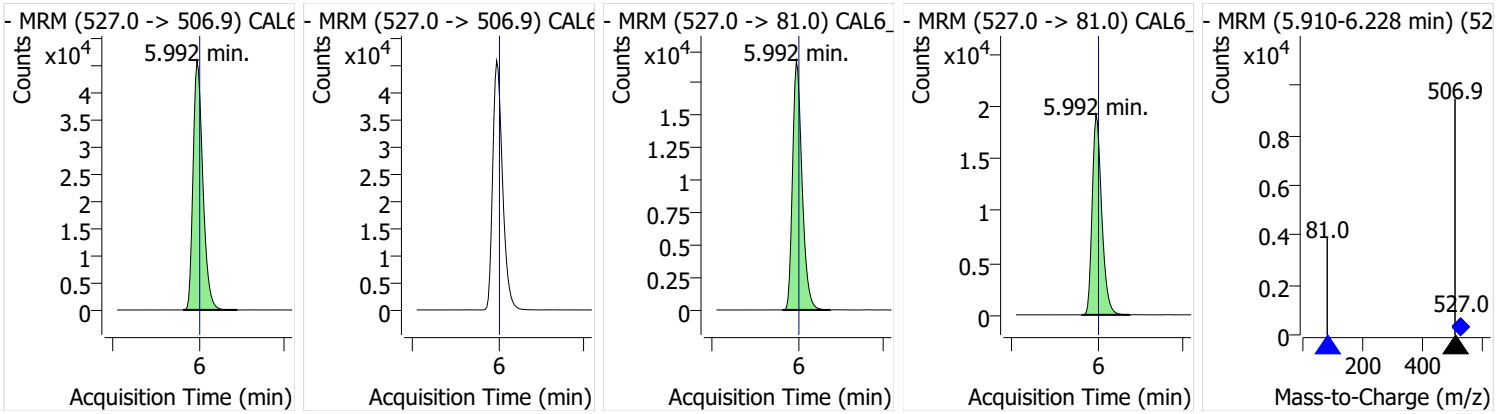
6:2FTS



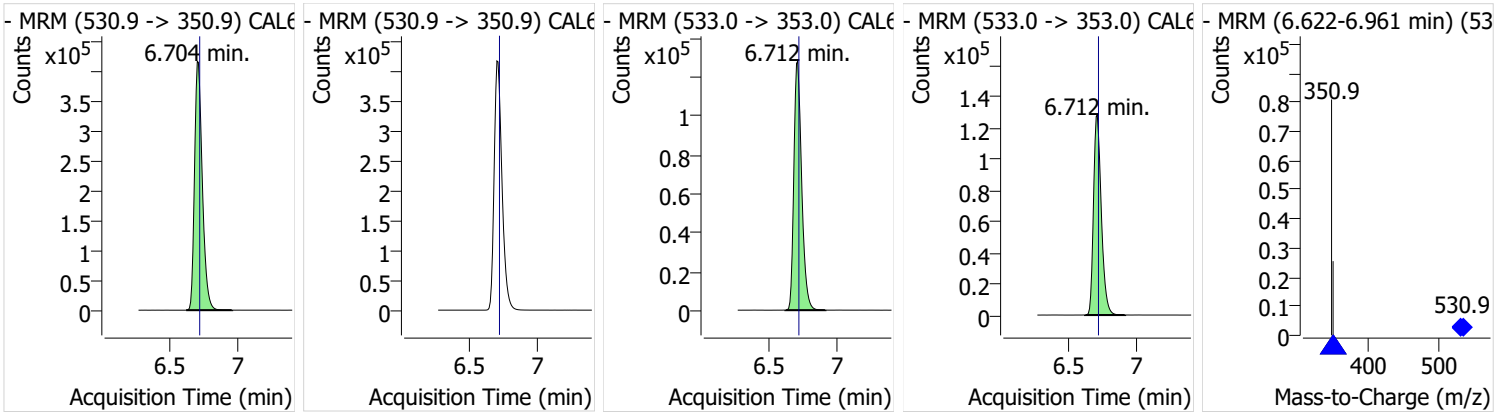
7:3FTCA



8:2FTS



9Cl-PF3ONS



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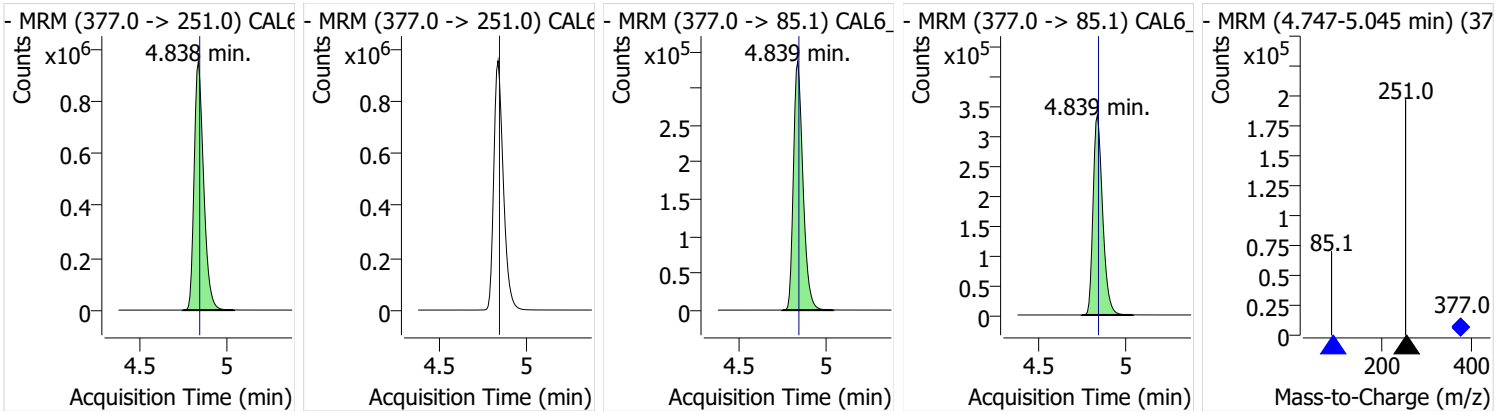
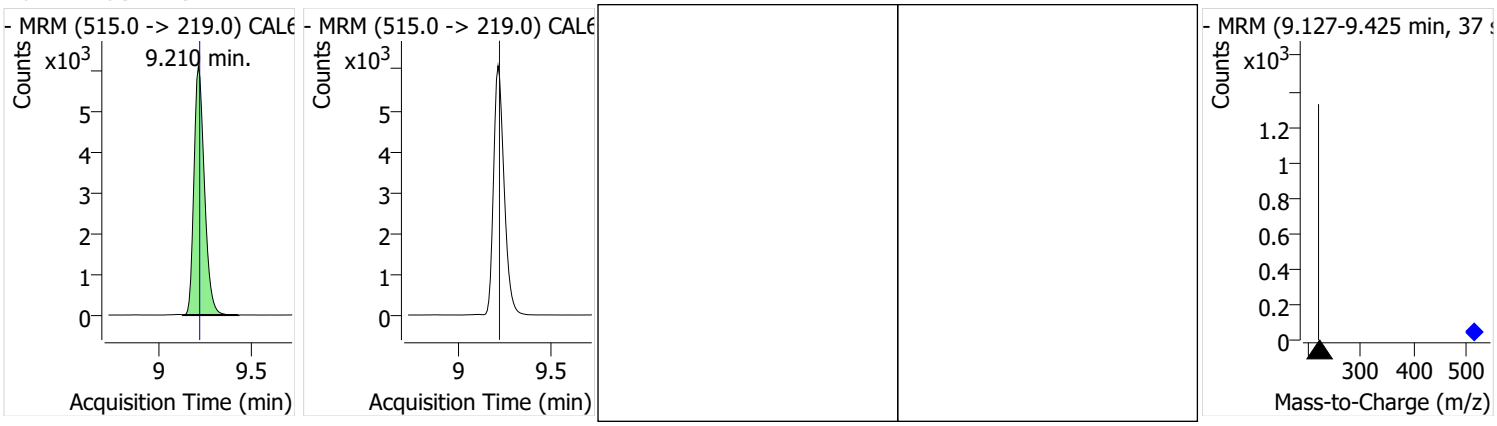
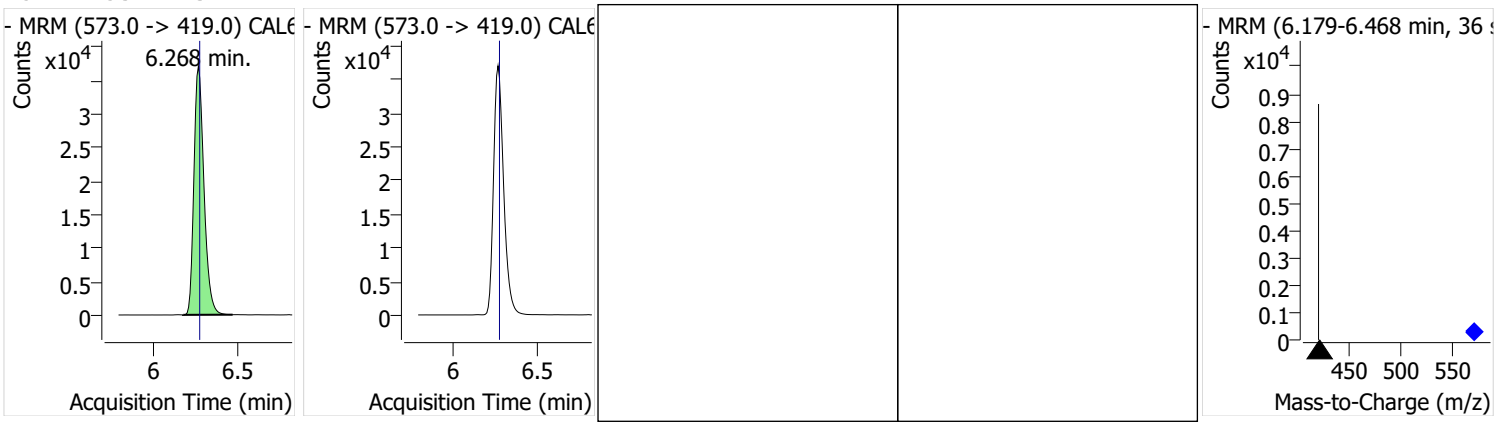


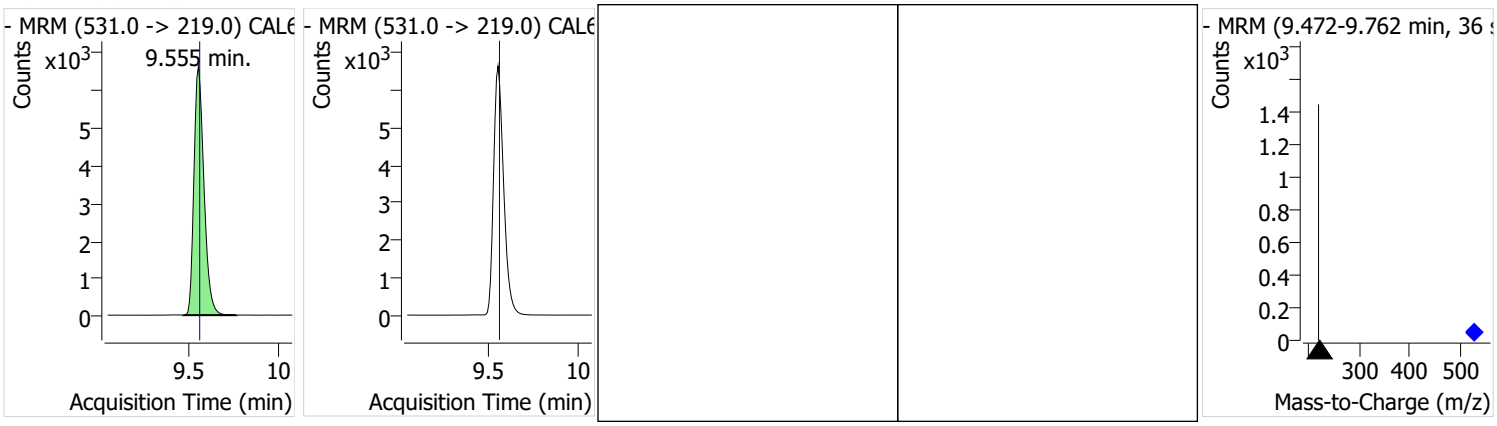
D3-NMeFOSA - ISTD



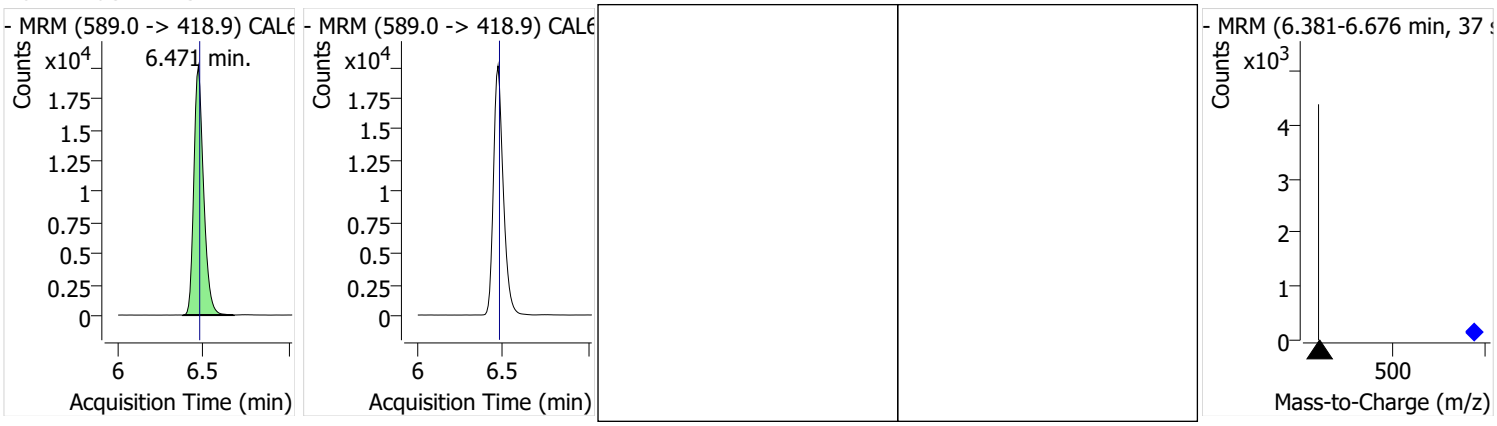
D3-NMeFOSAA - ISTD



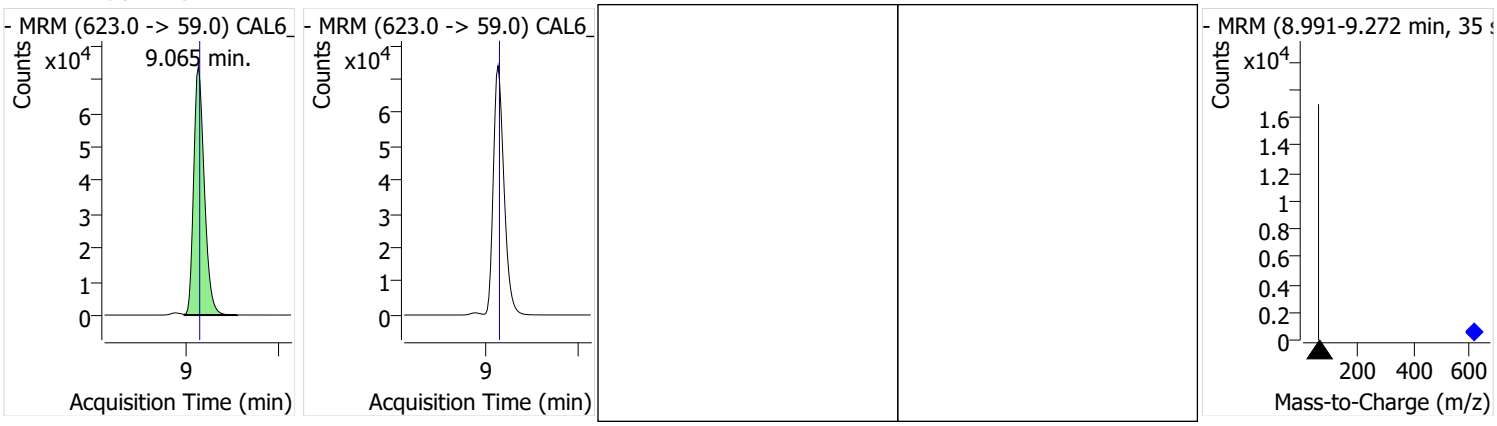
D5-NEtFOSA - ISTD



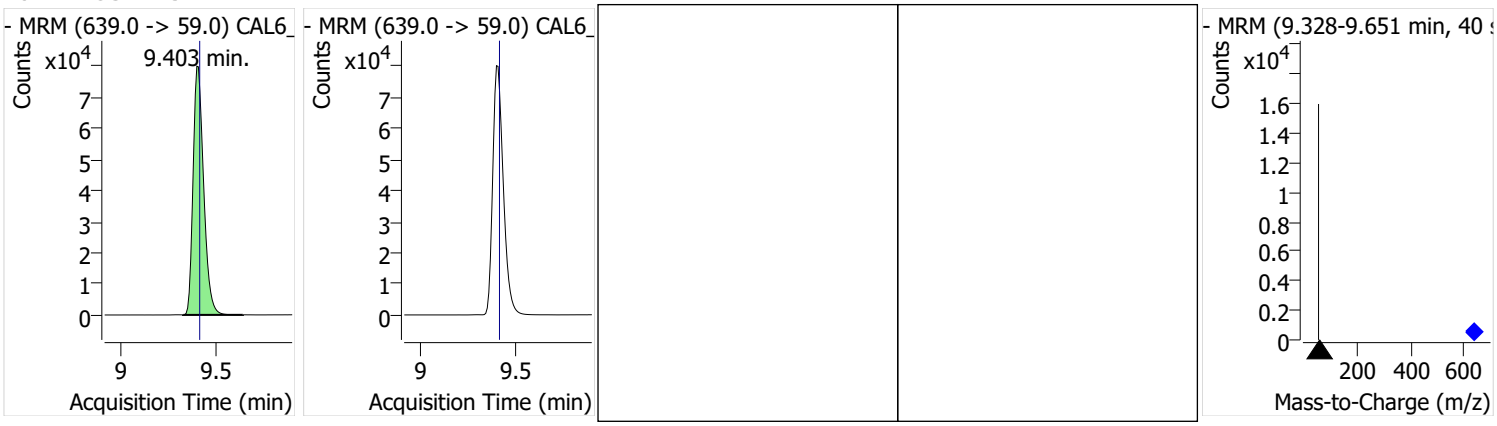
D5-NEtFOSAA - ISTD



D7-NMeFOSE - ISTD



D9-NEtFOSE - ISTD



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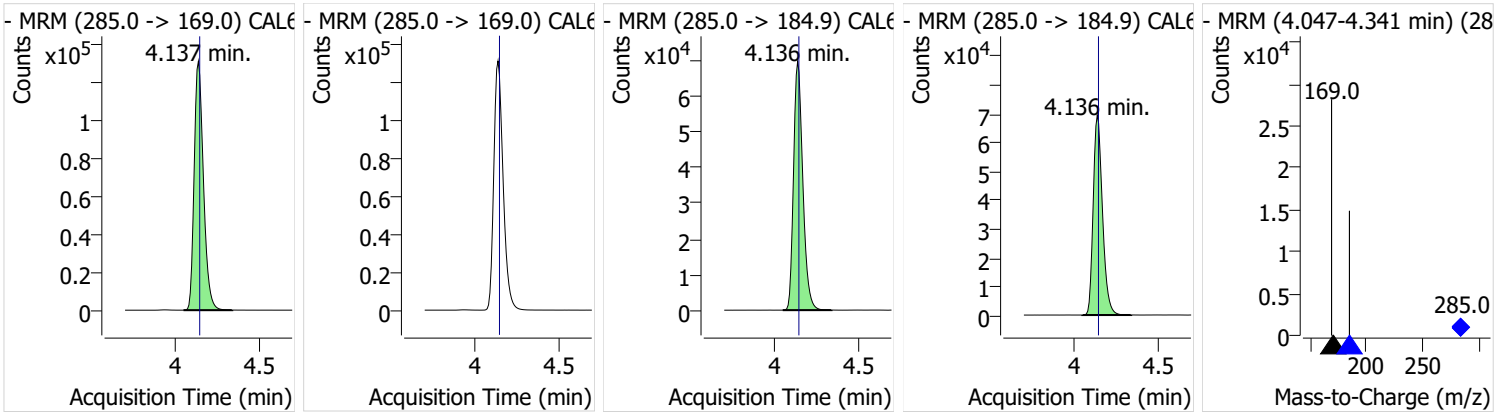

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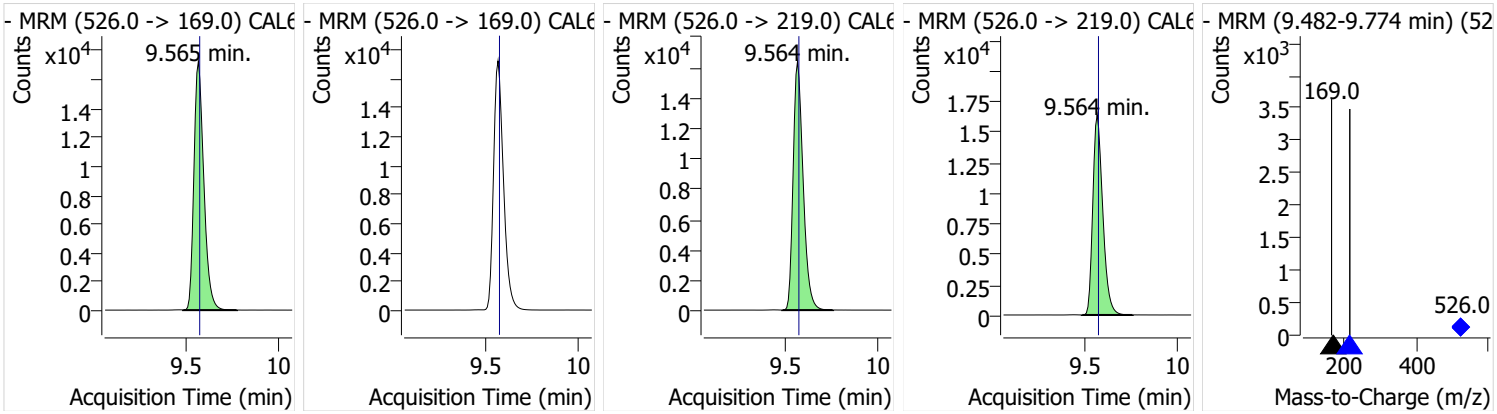

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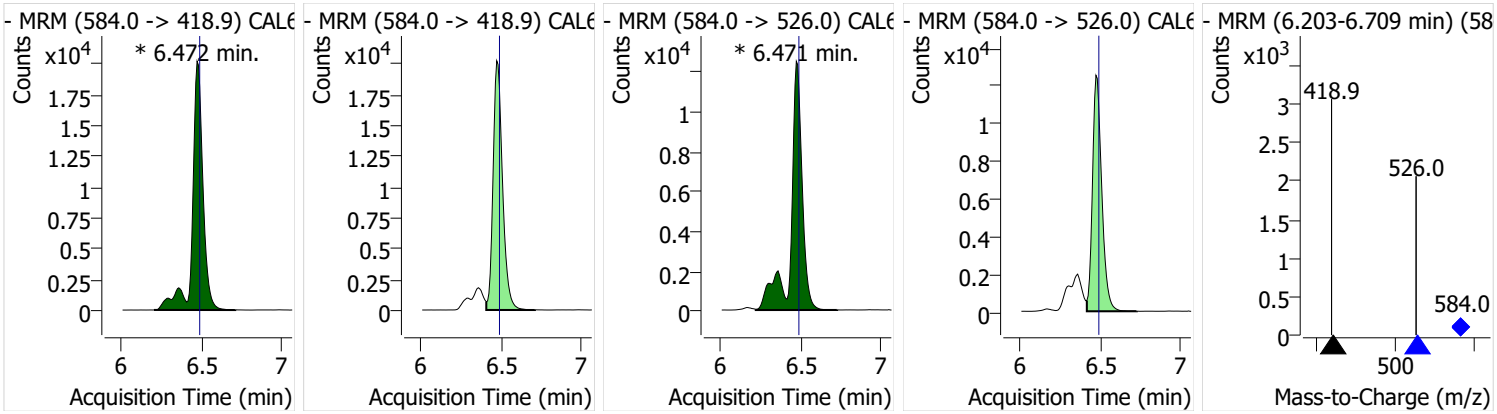

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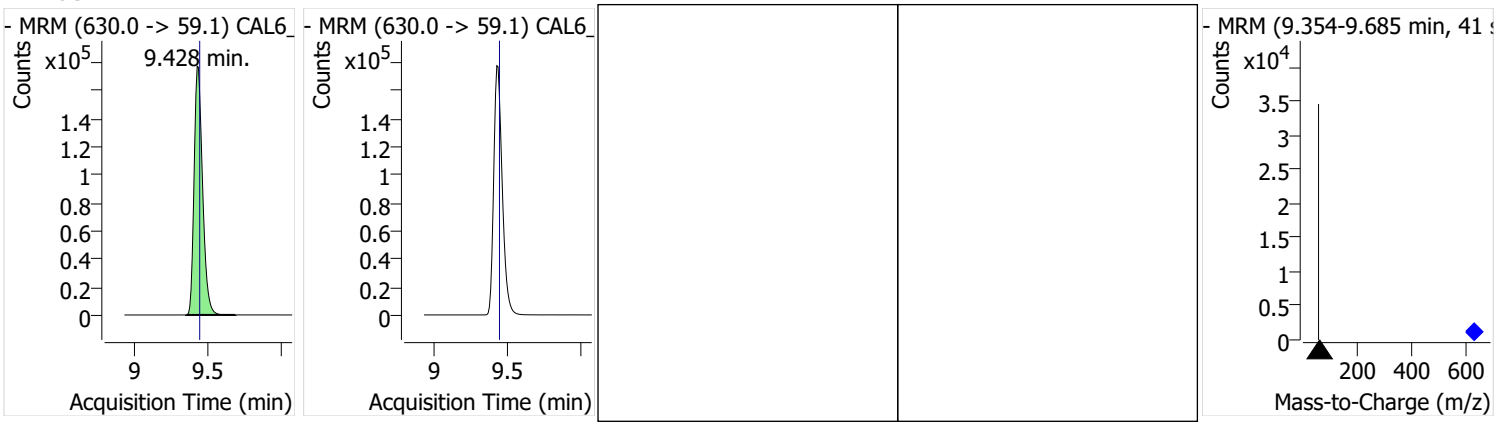

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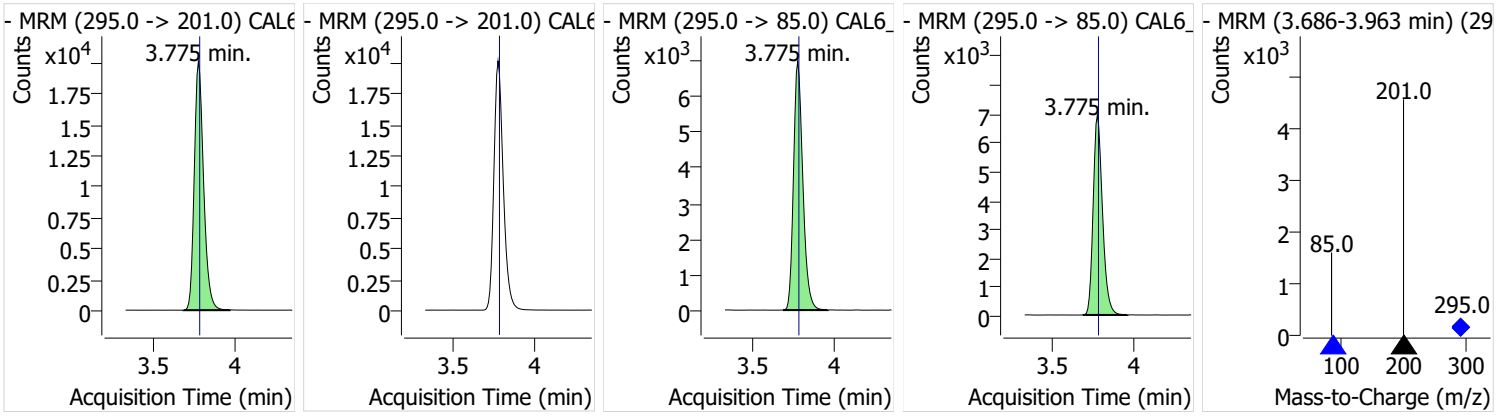

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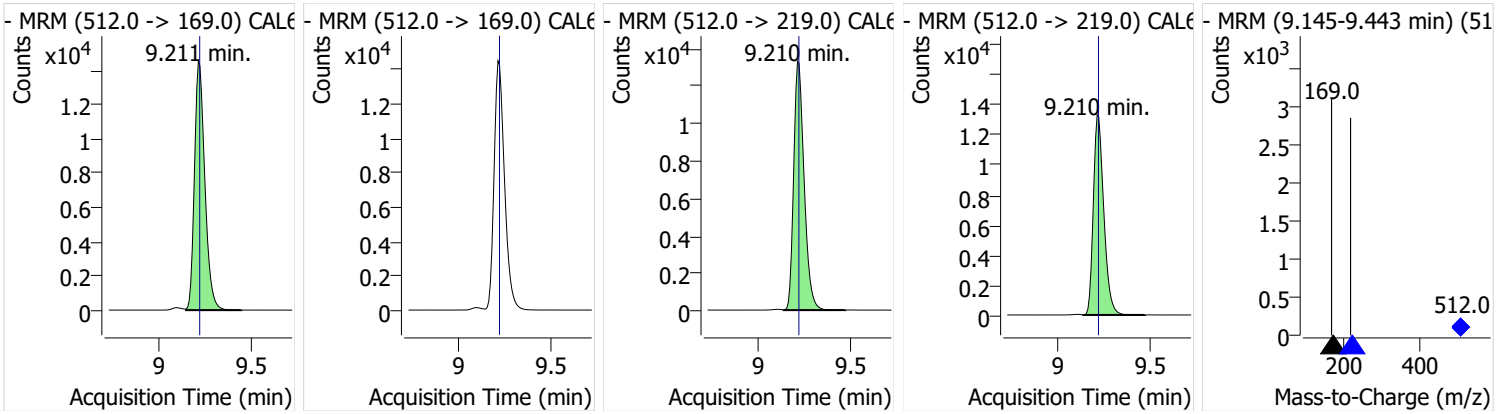

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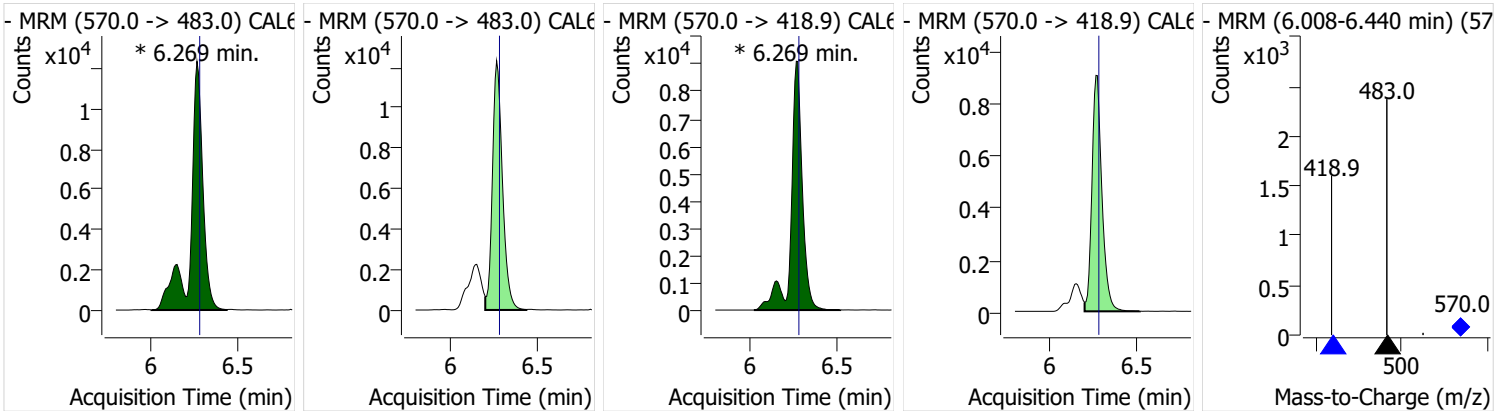

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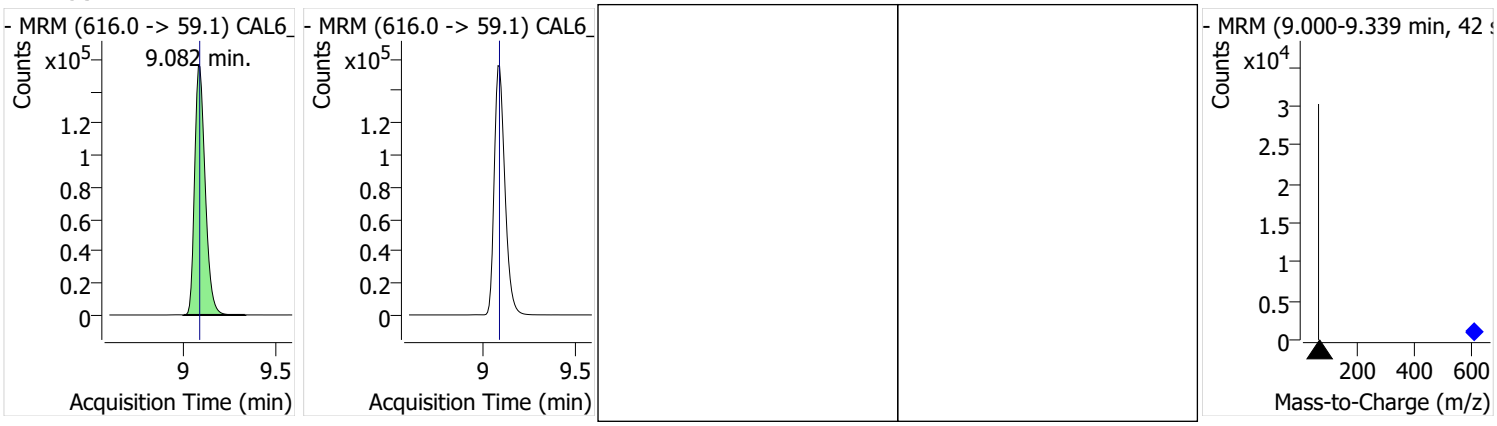

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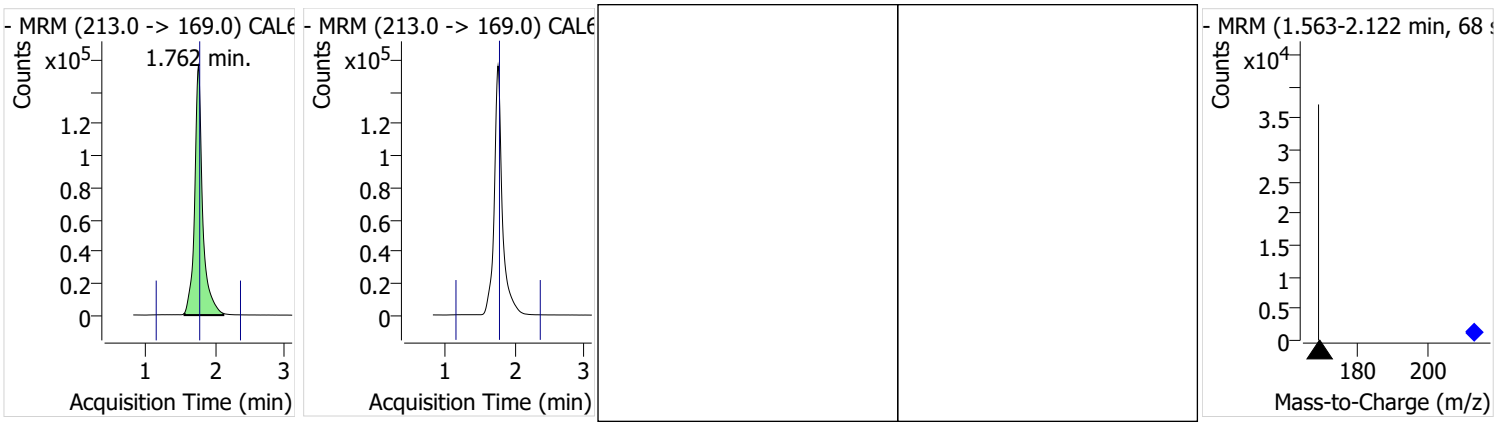

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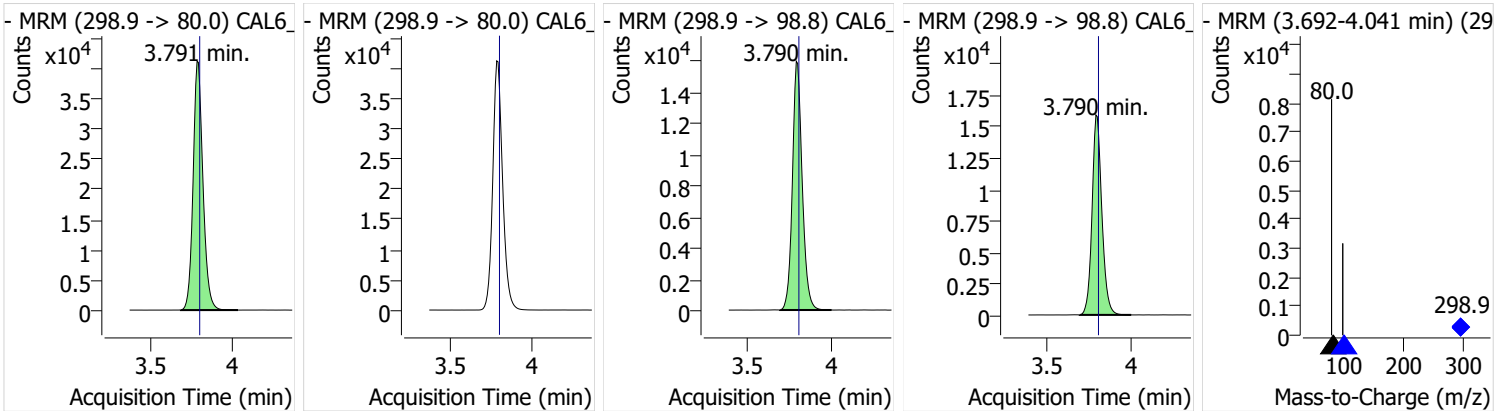

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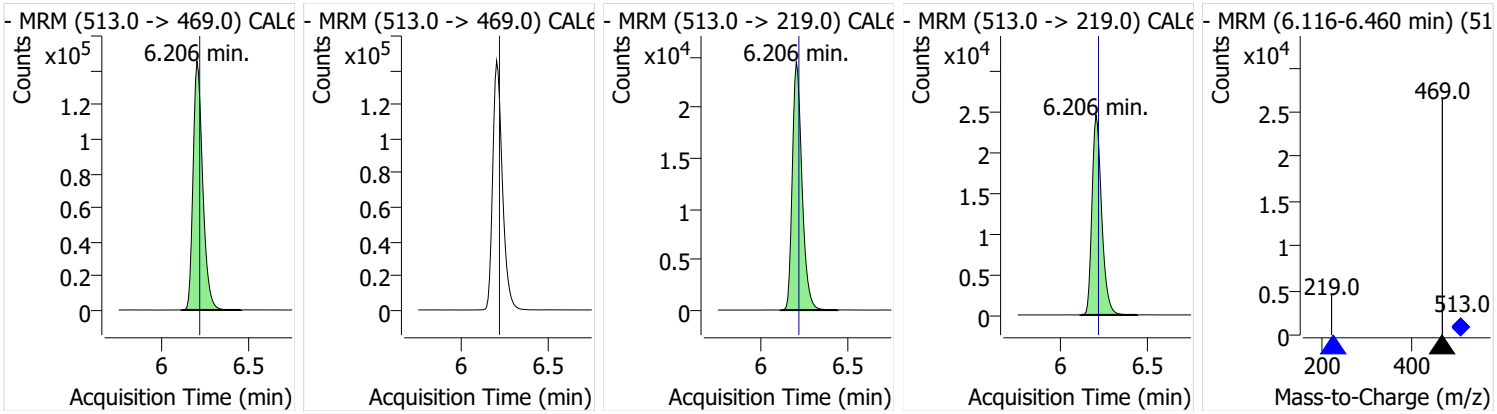

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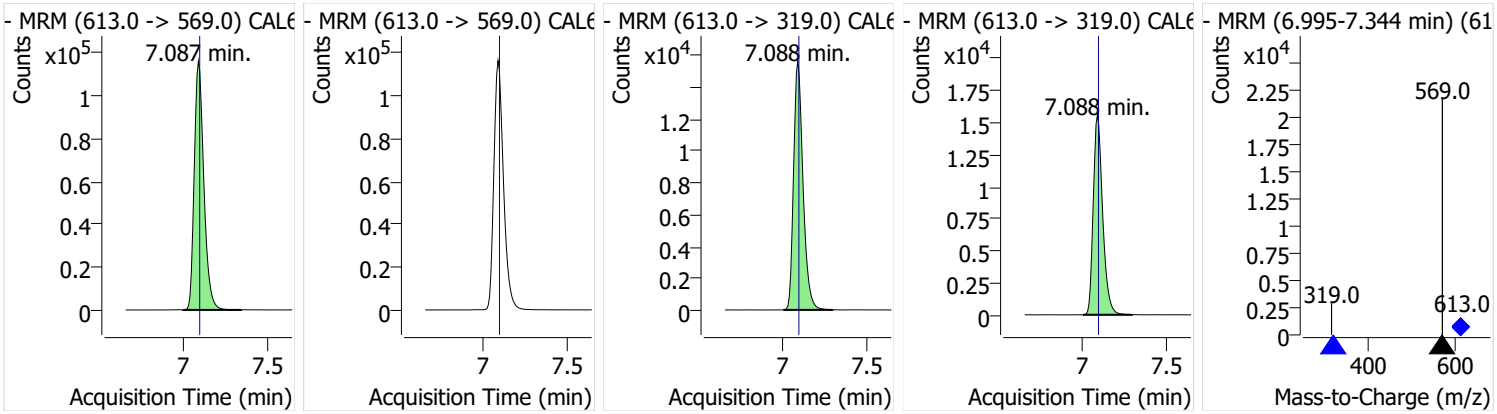

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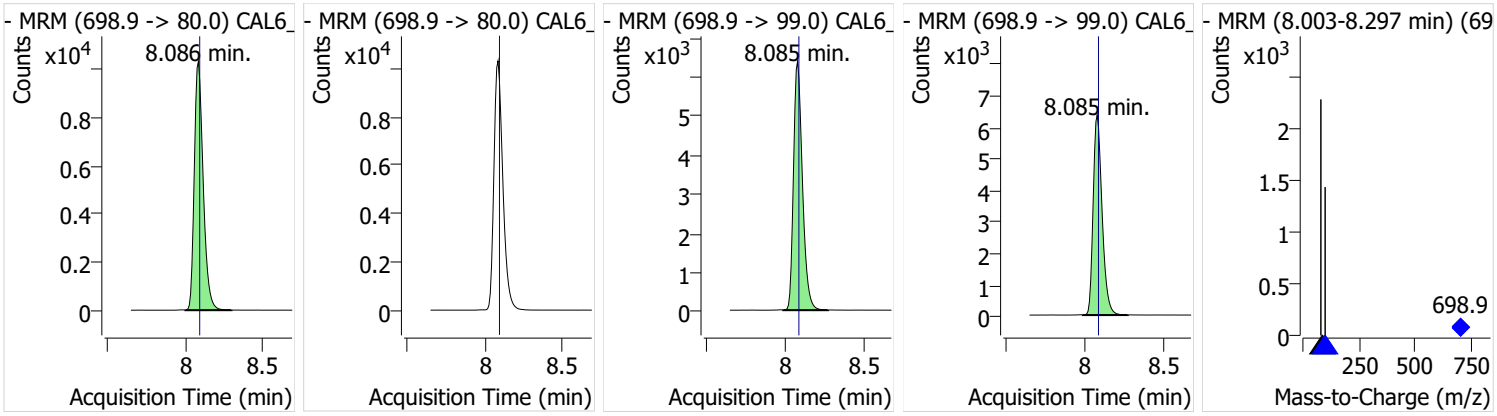

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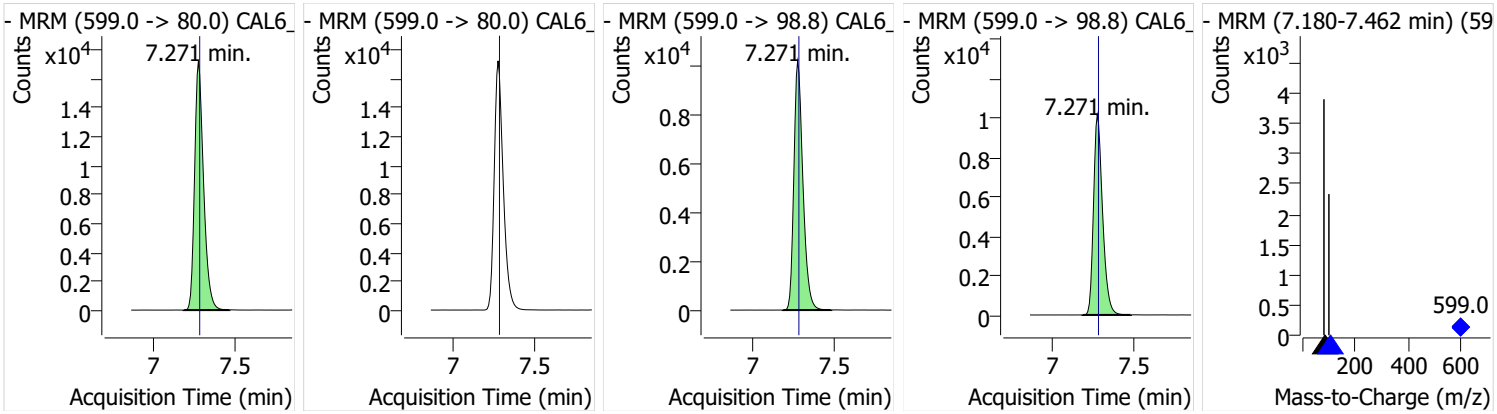

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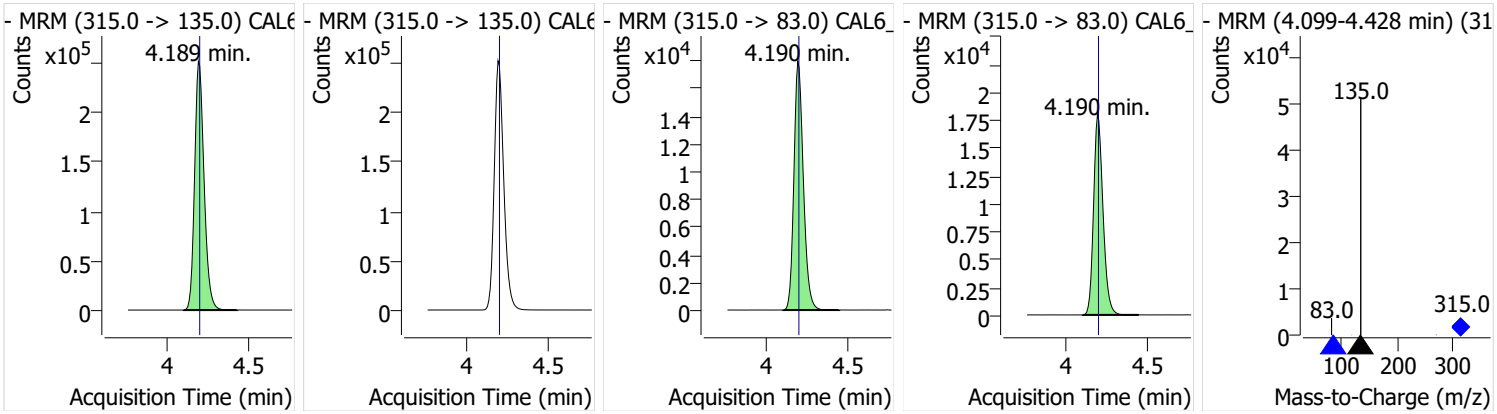

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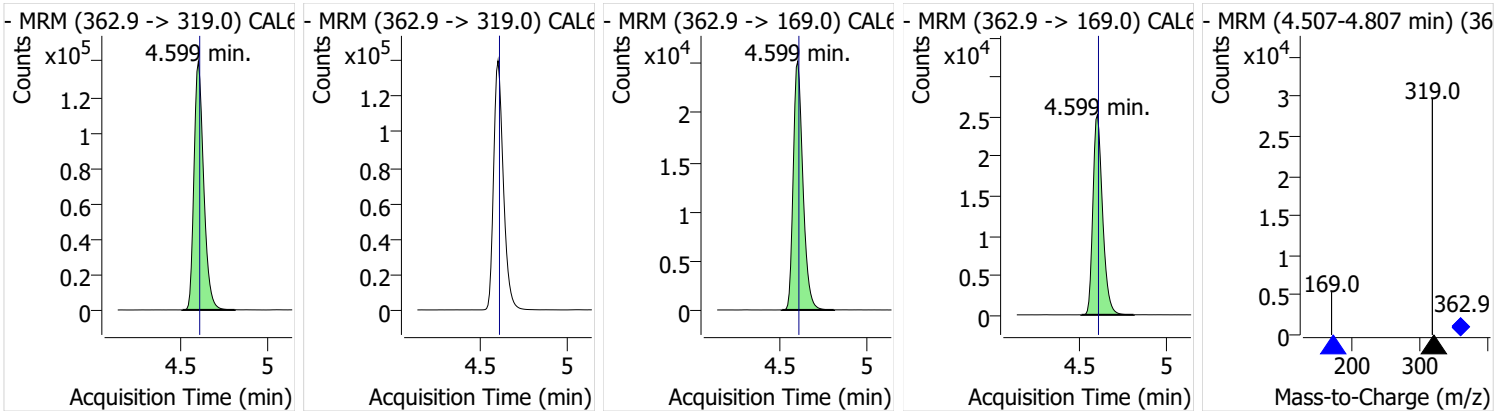

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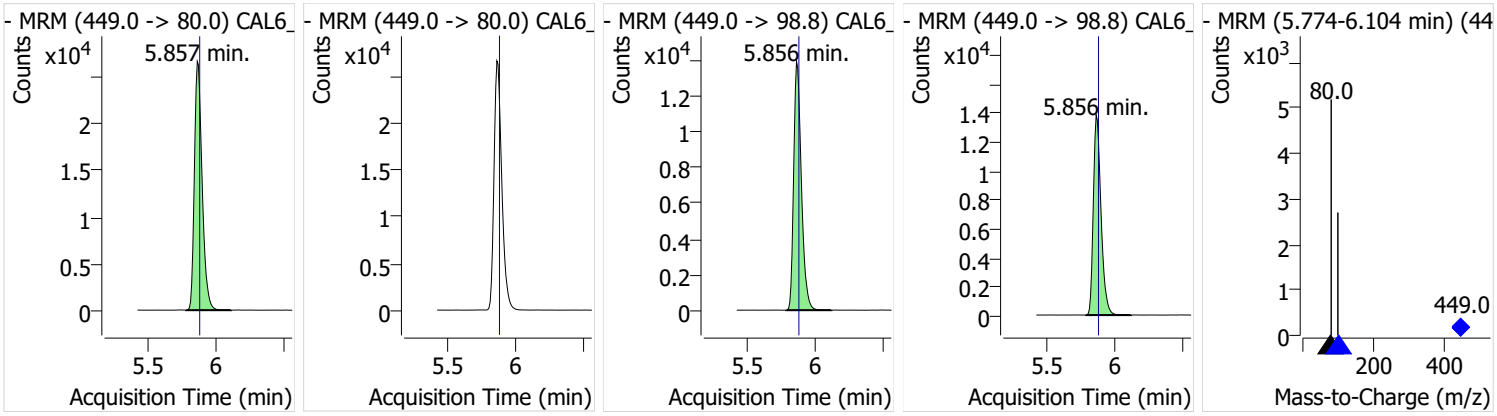

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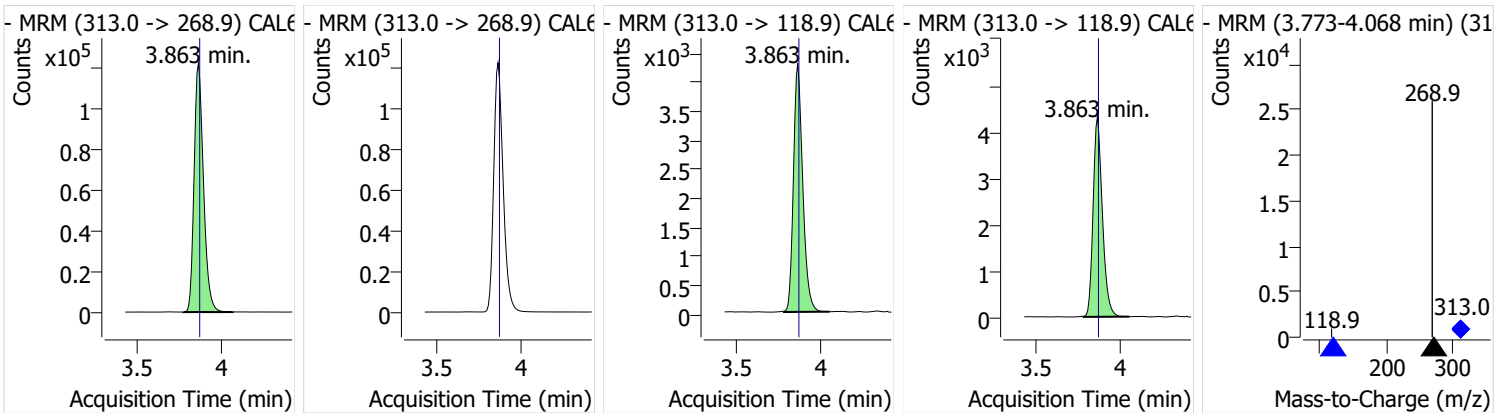

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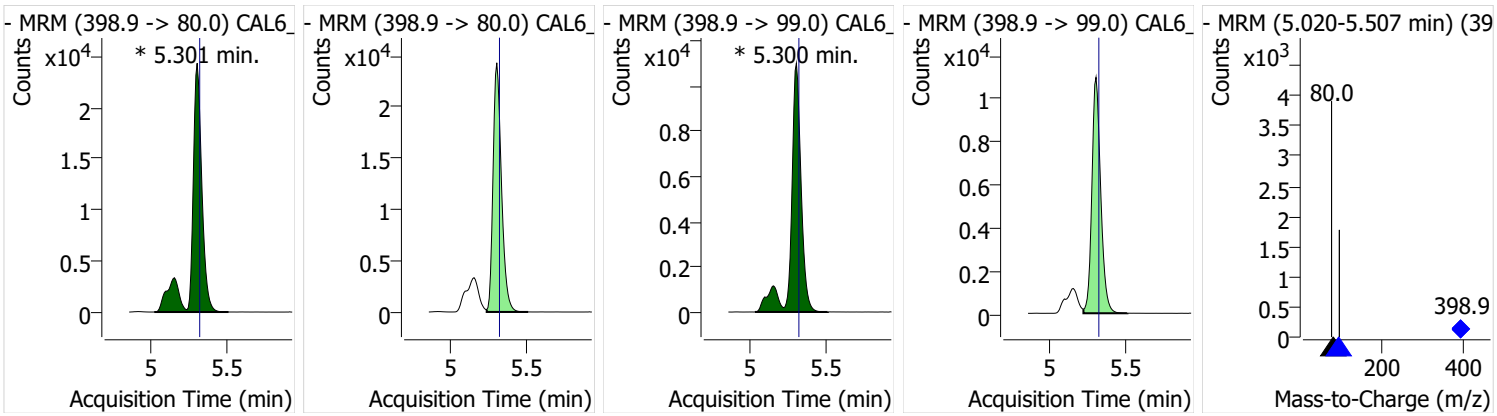

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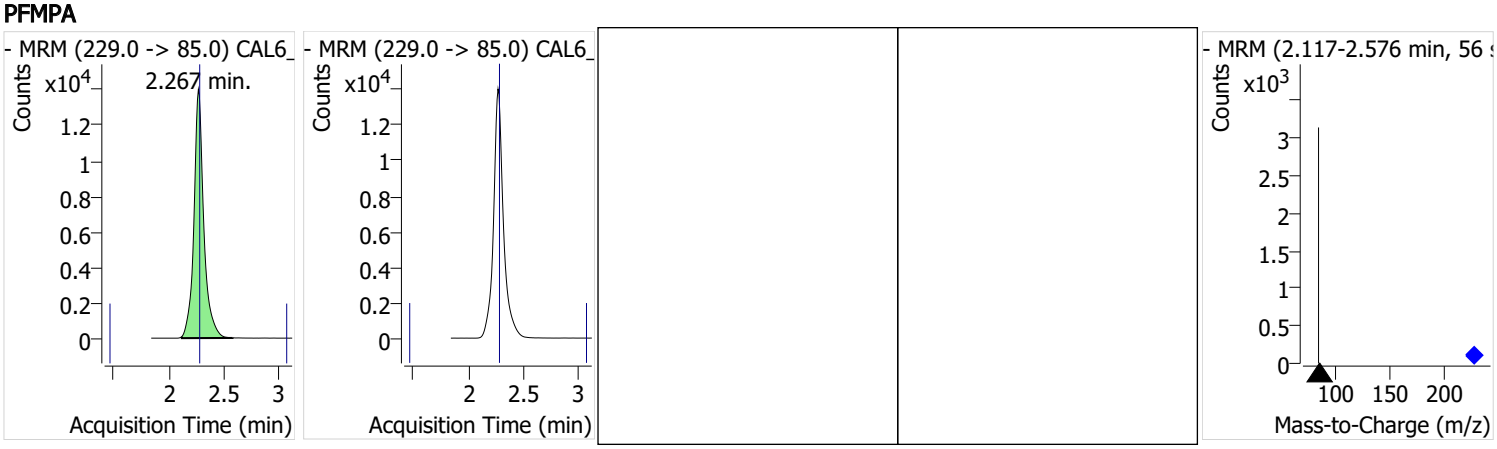

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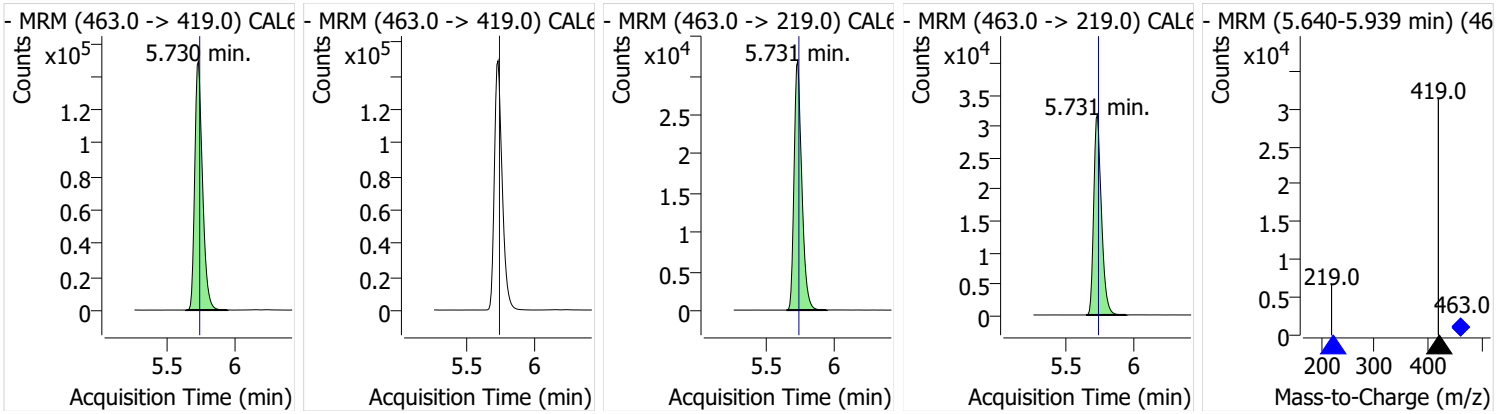

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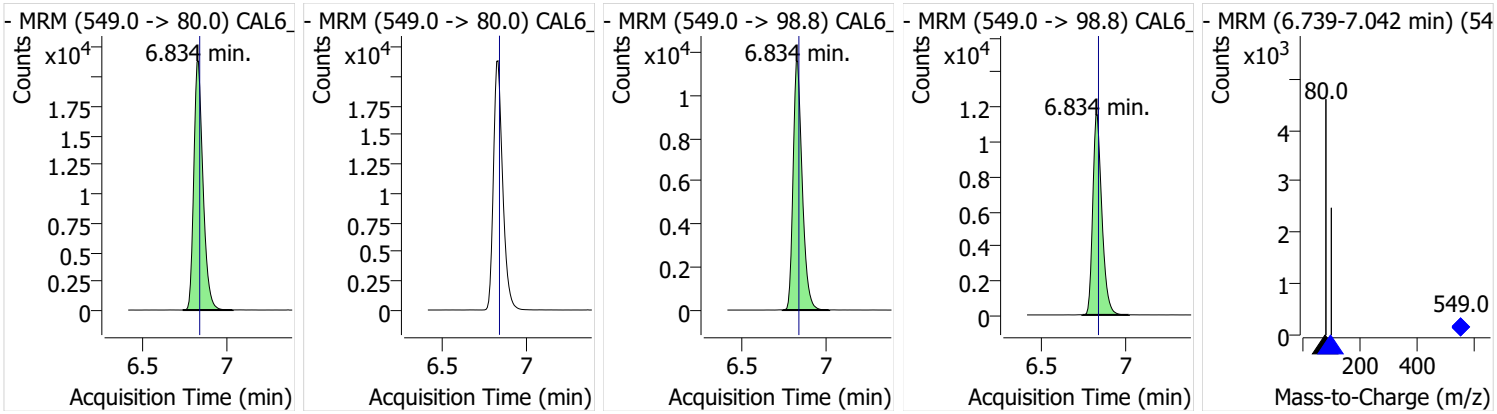

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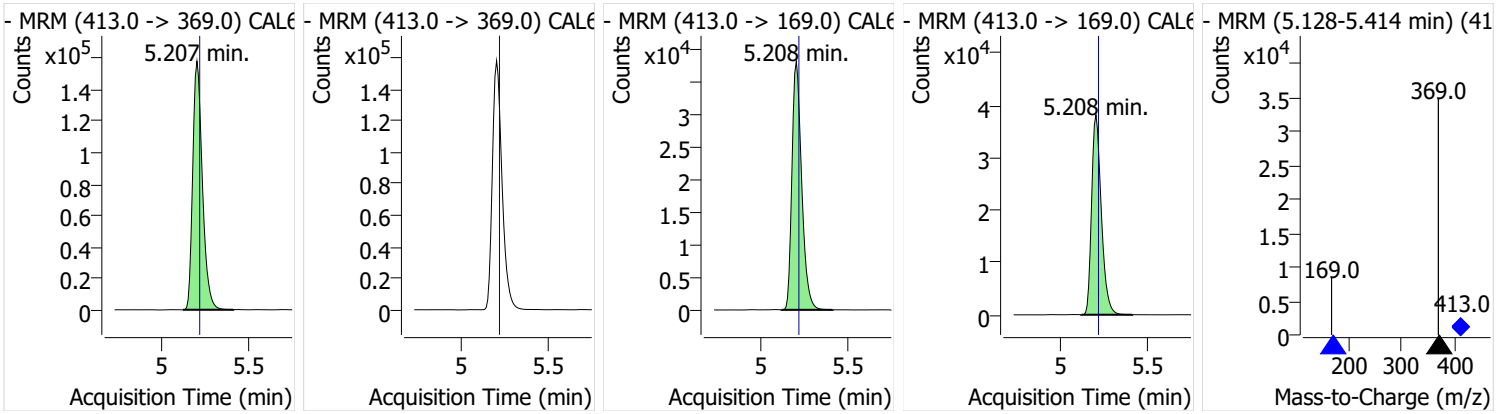

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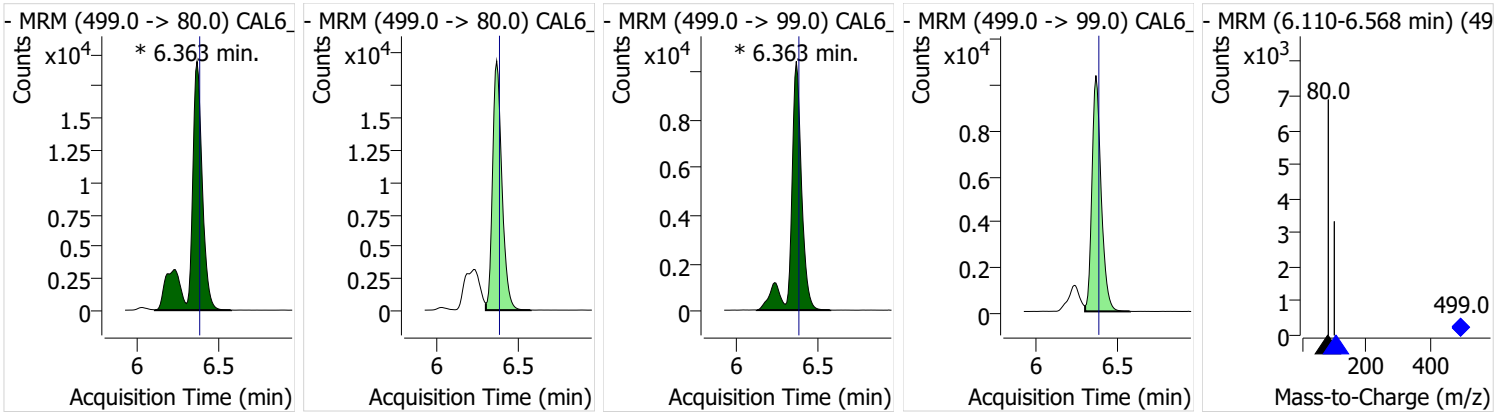

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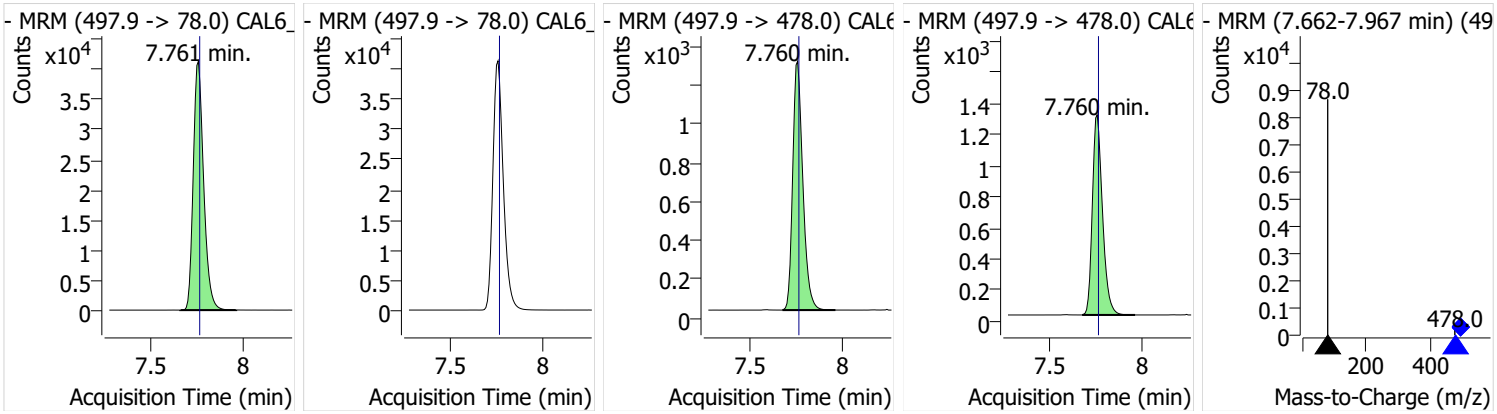

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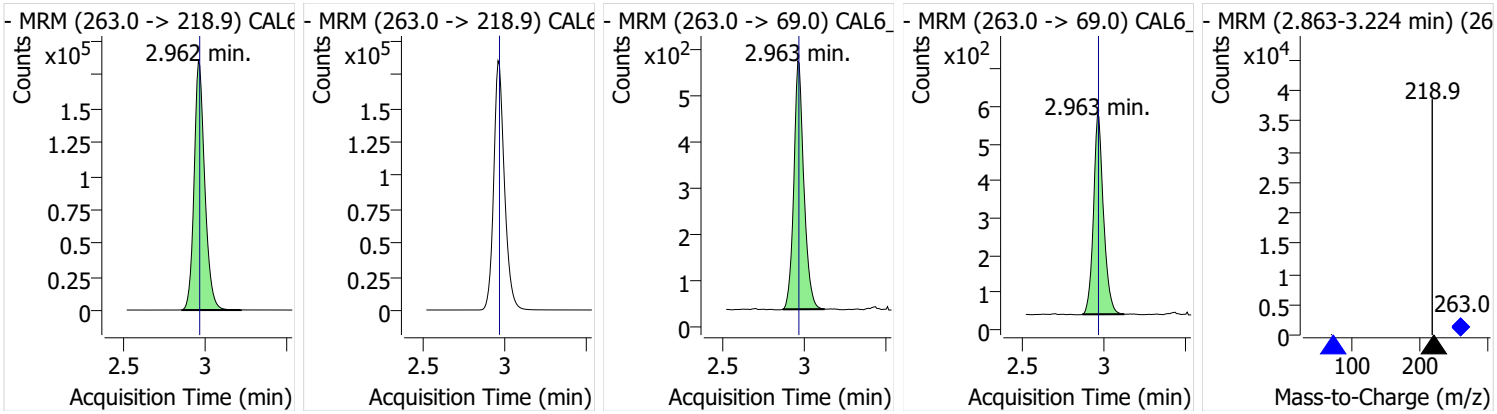

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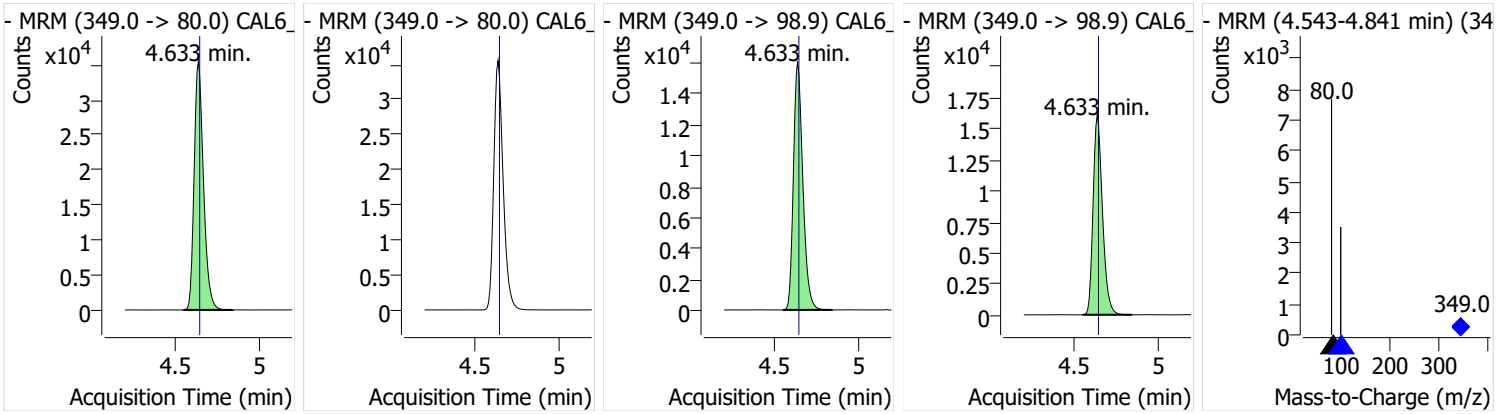

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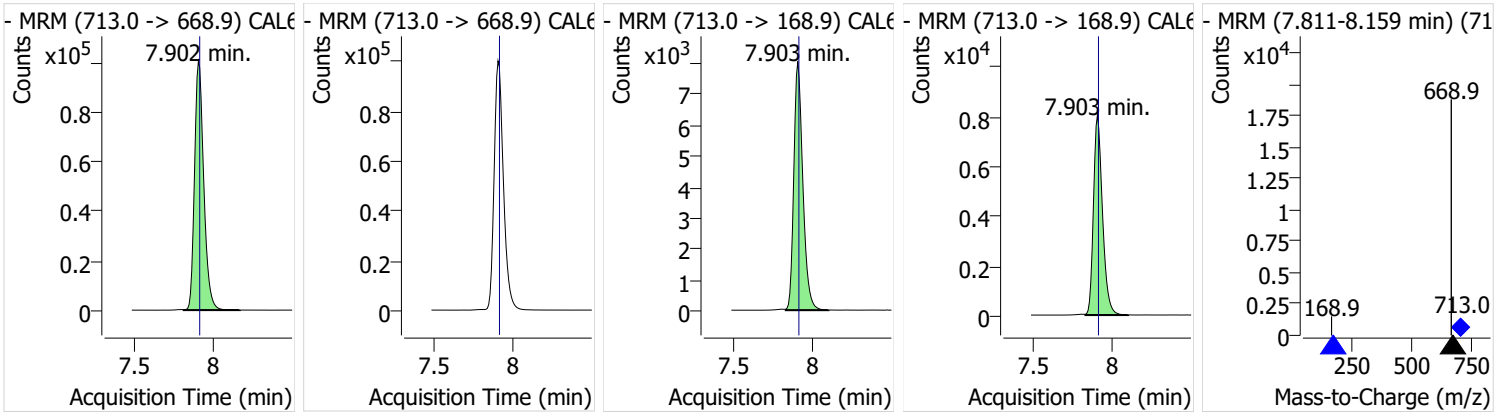

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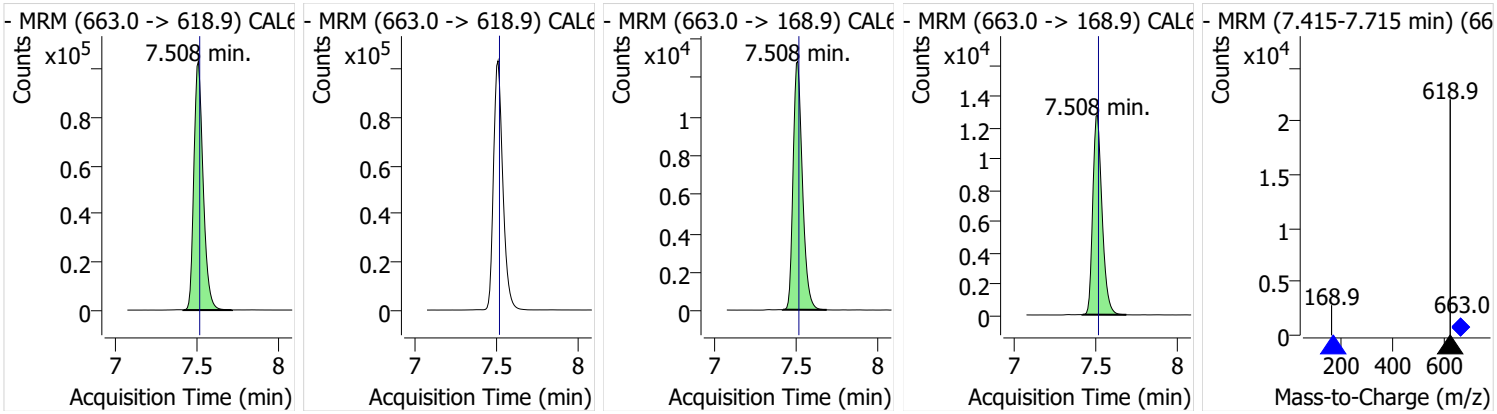

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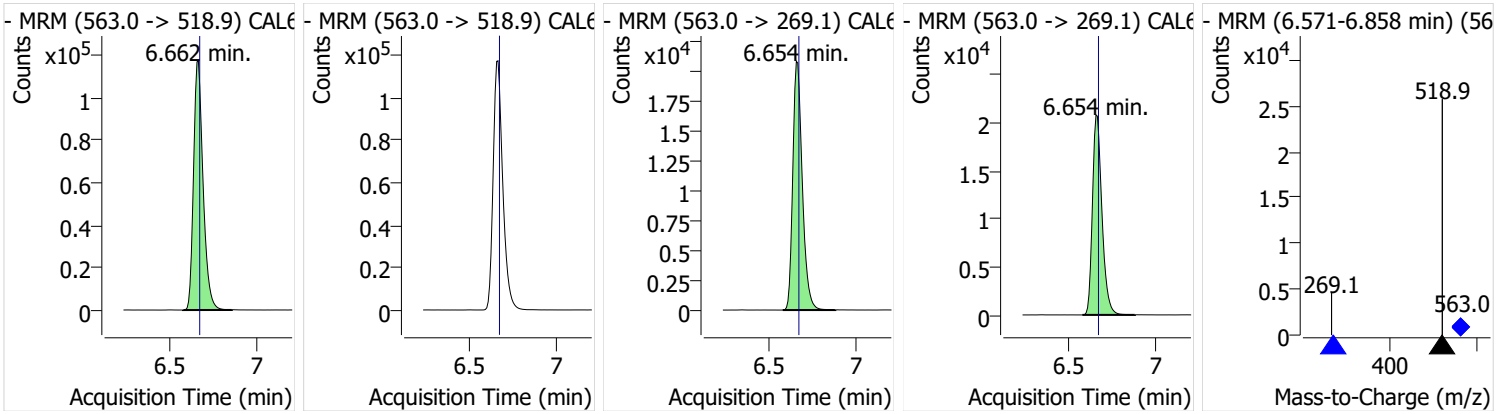

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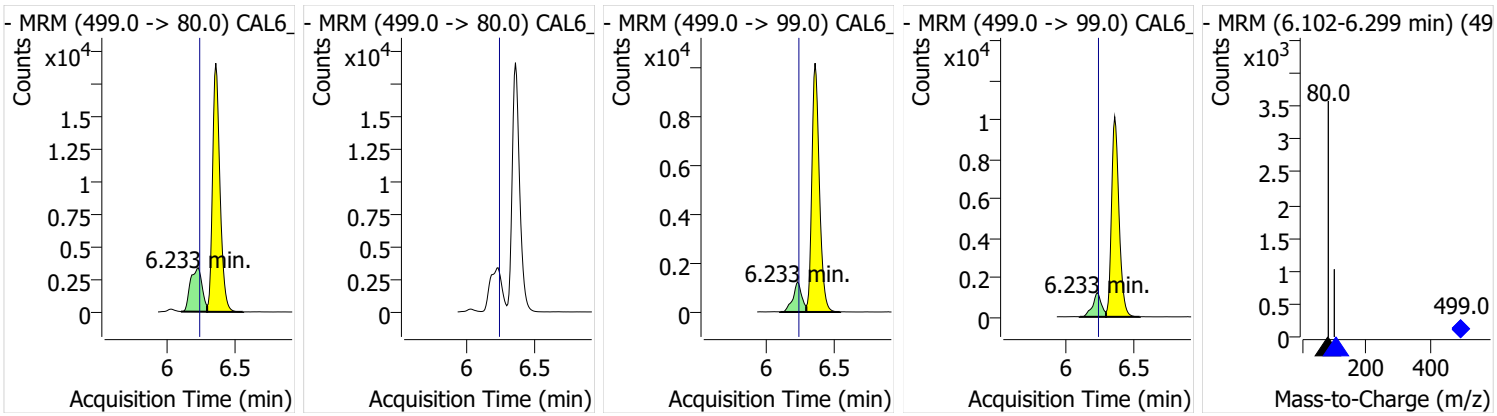

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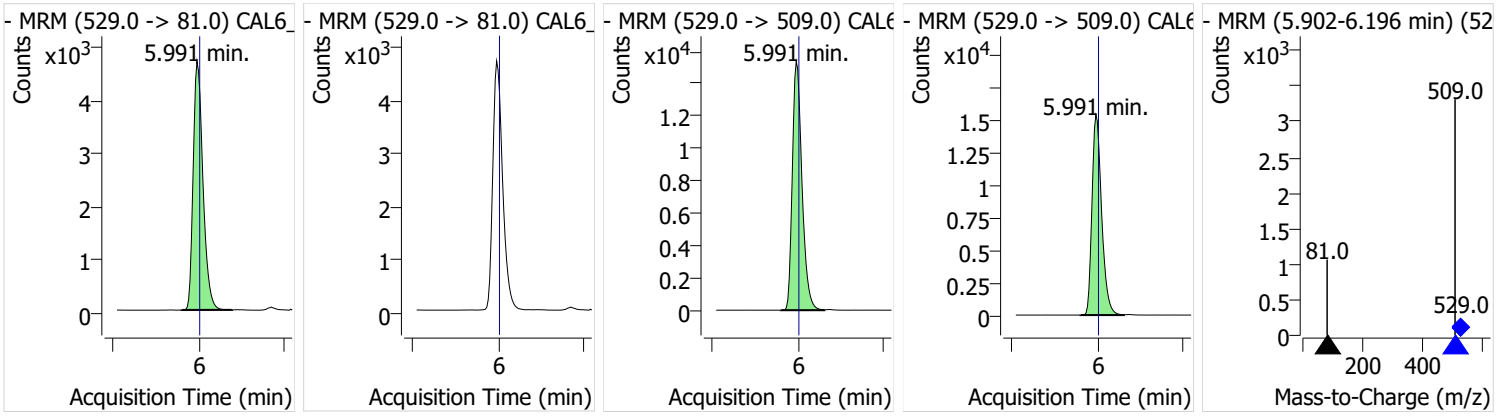

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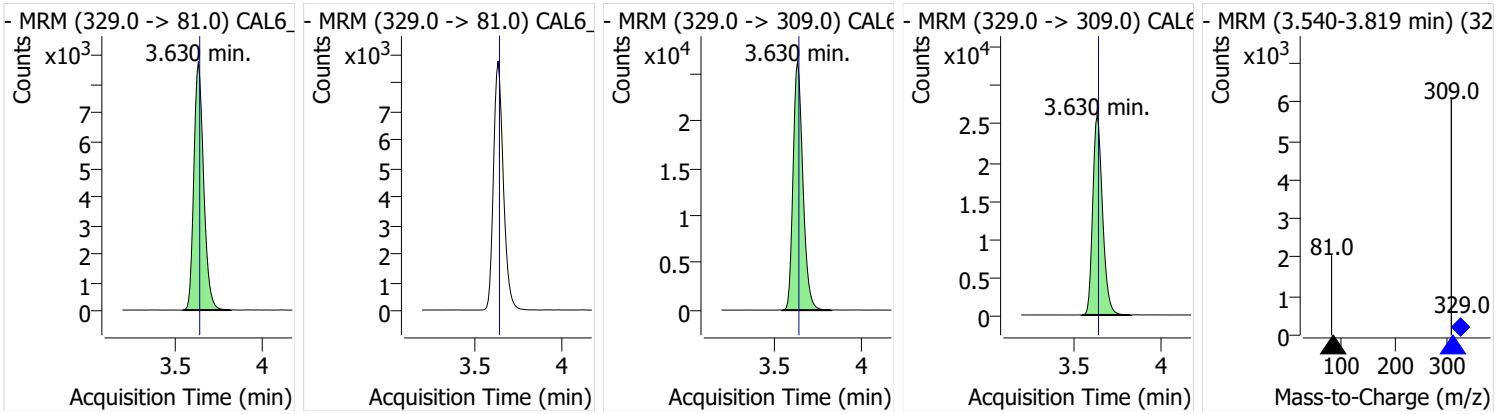

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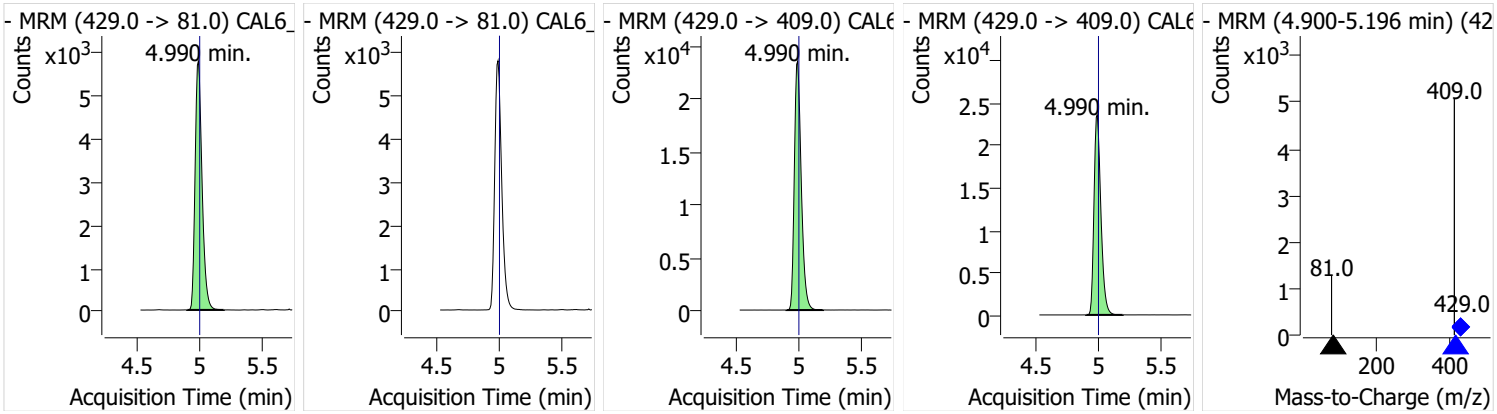

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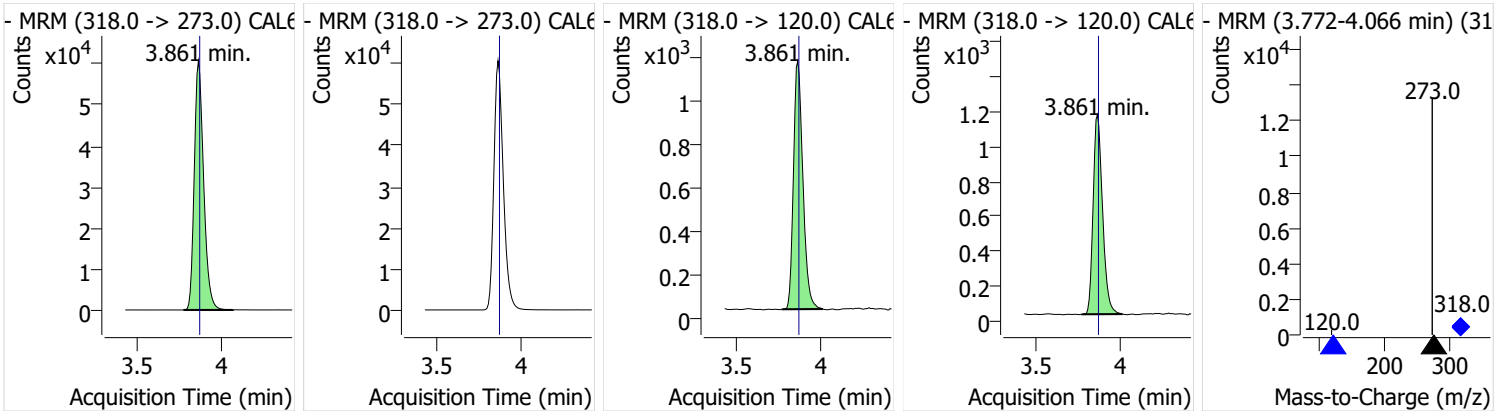

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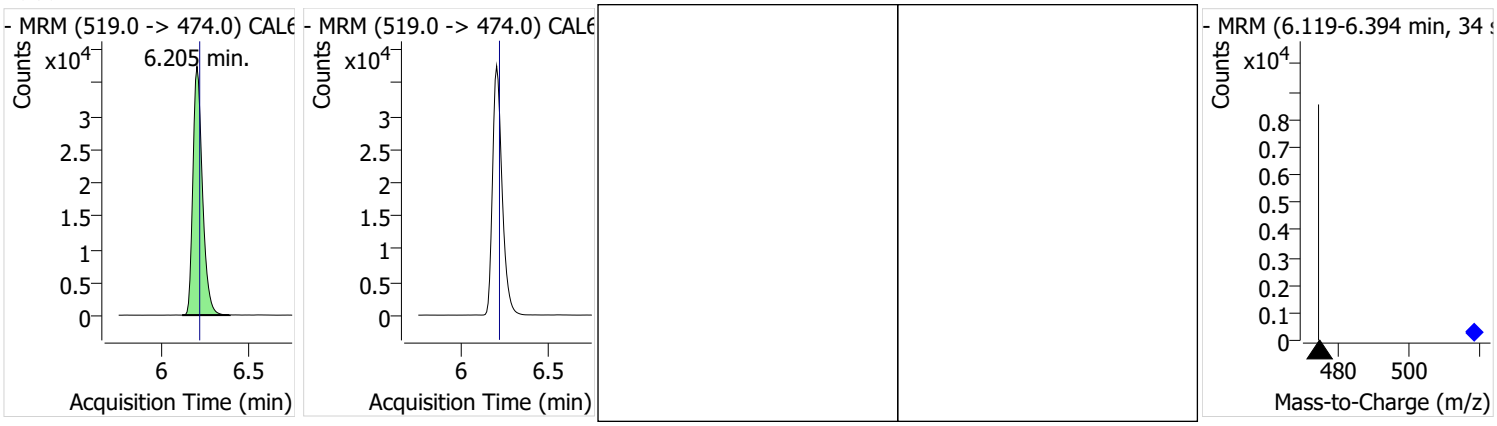

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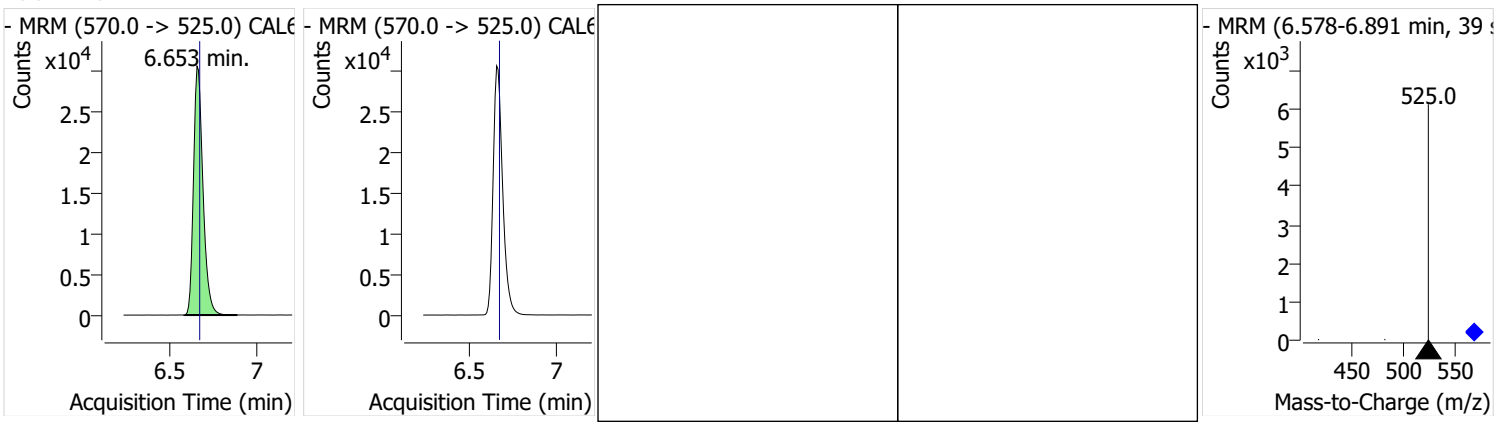

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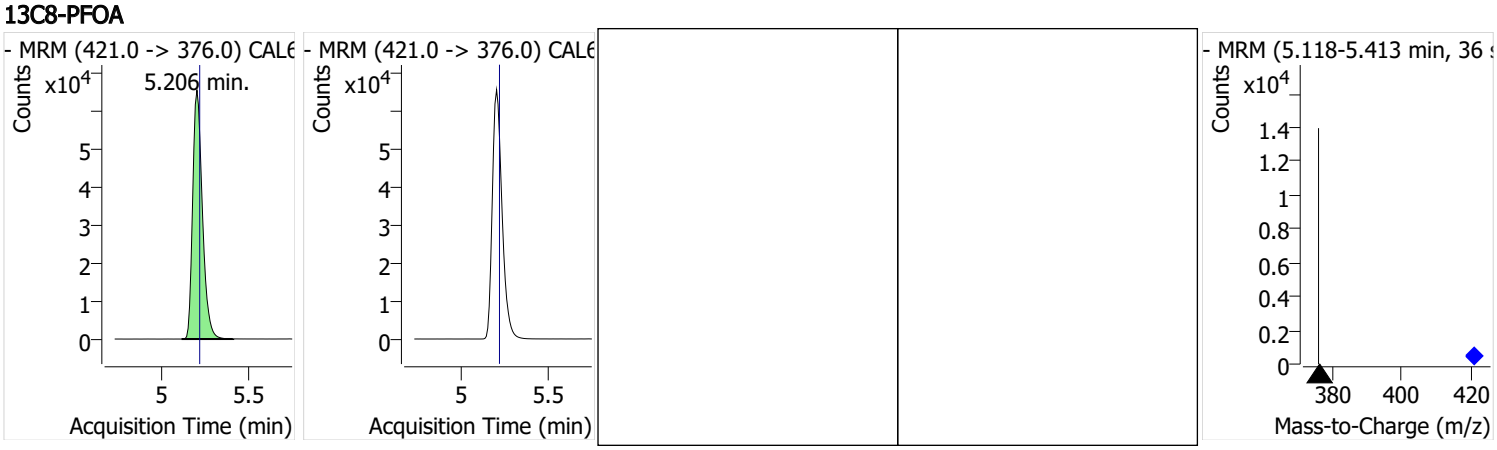

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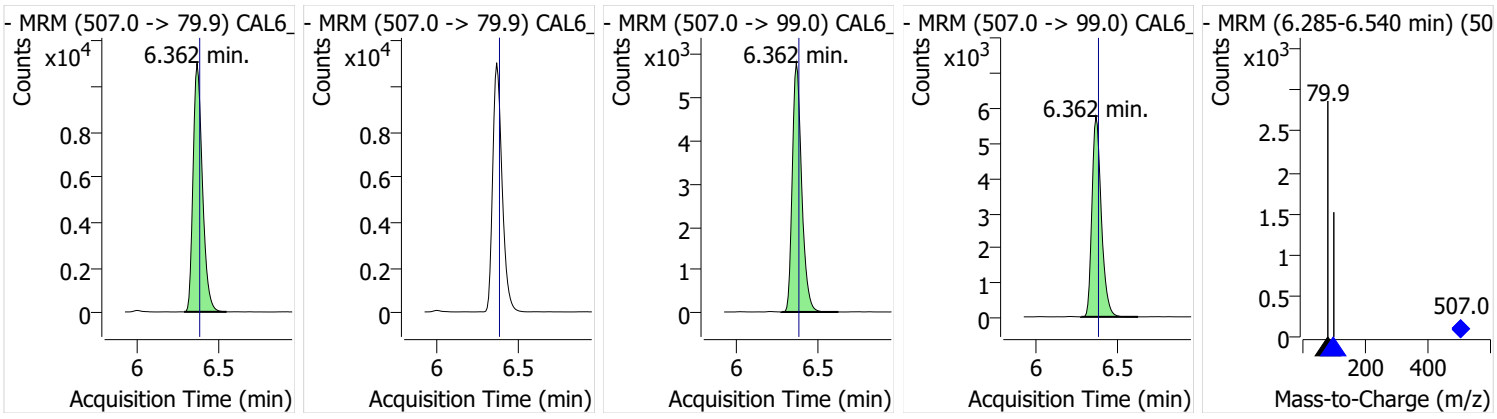

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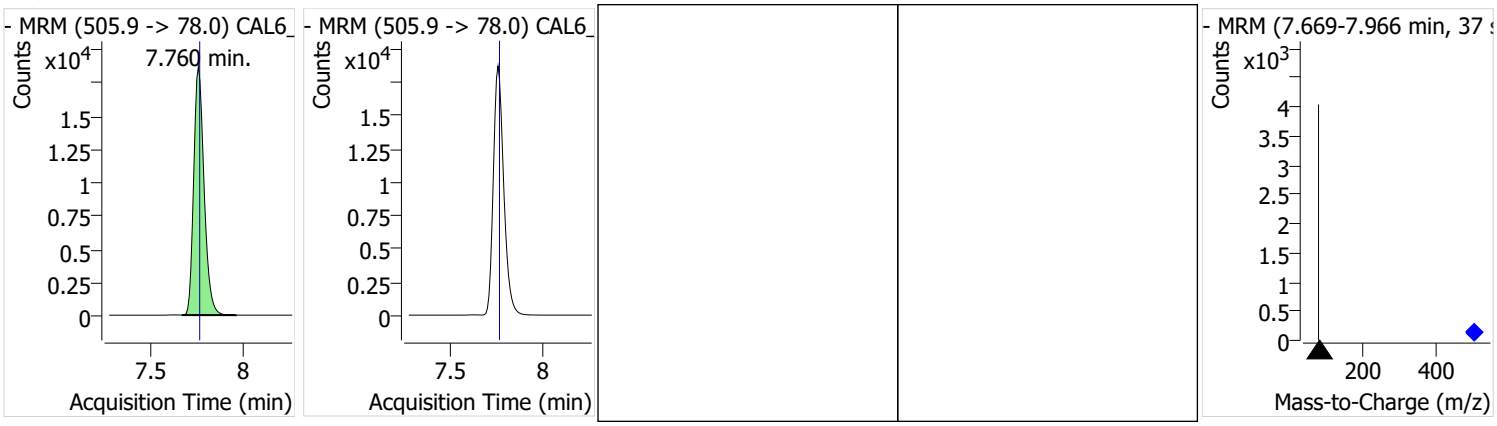

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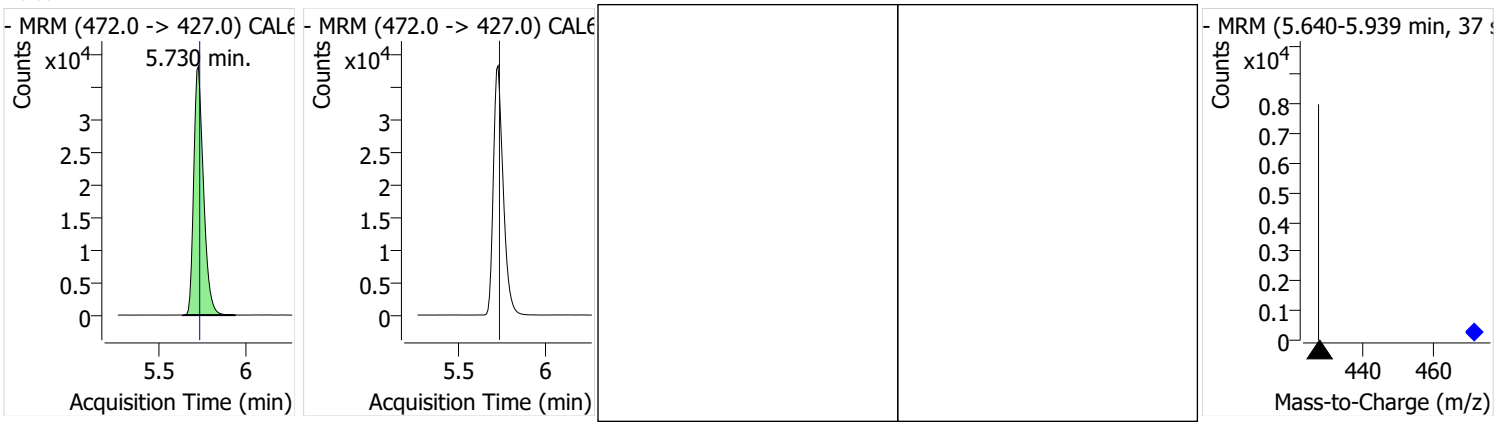

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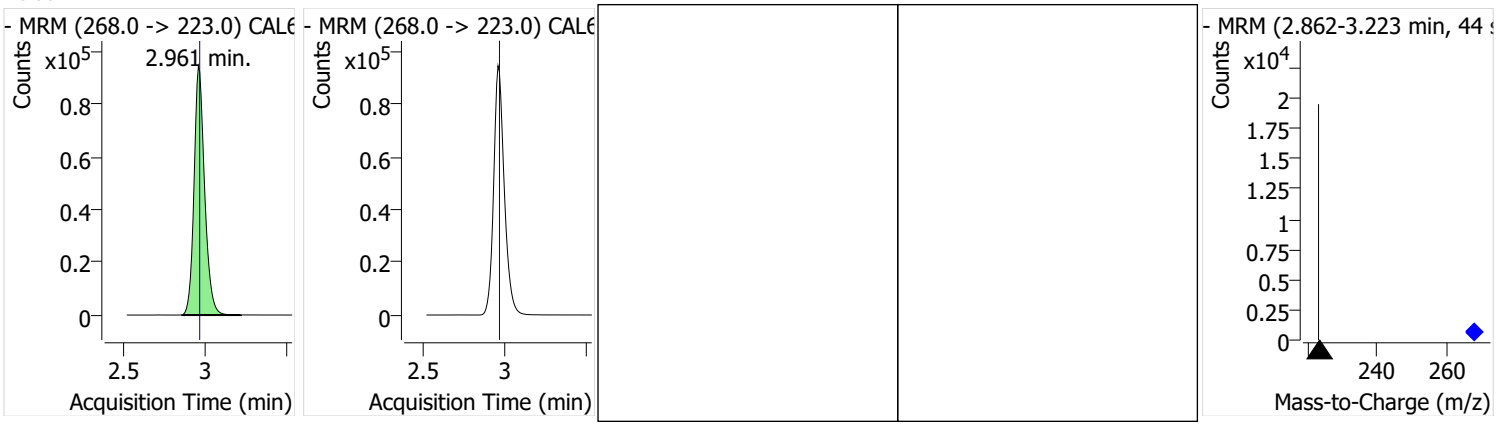

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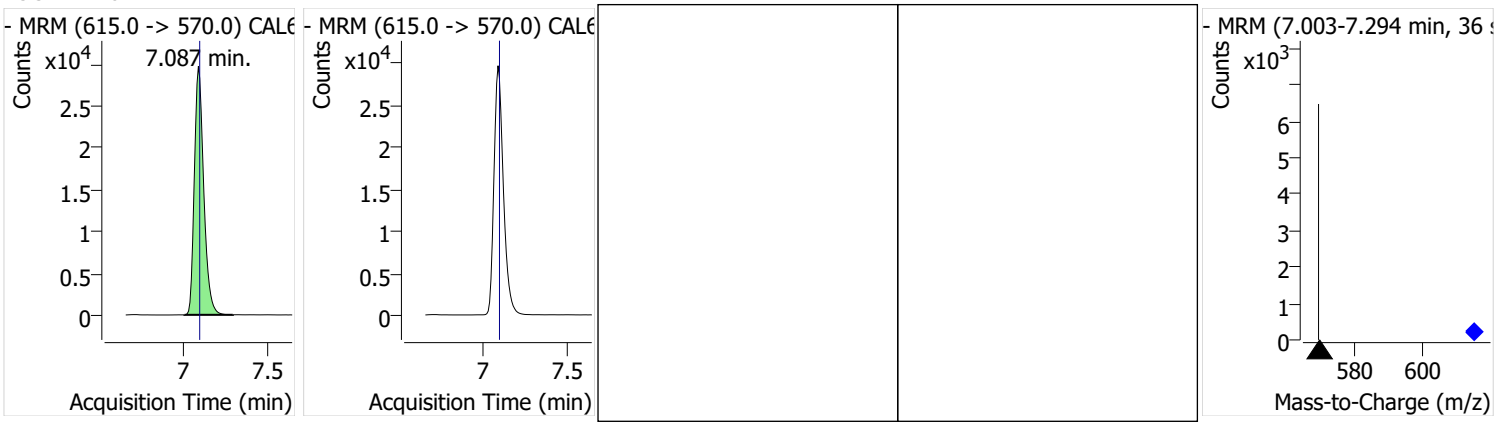

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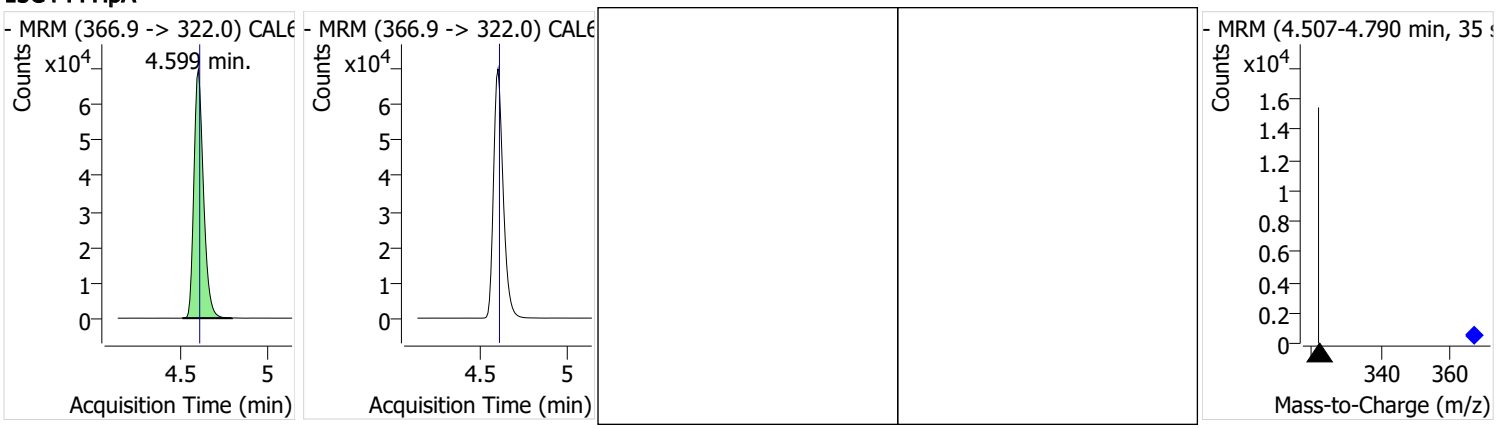

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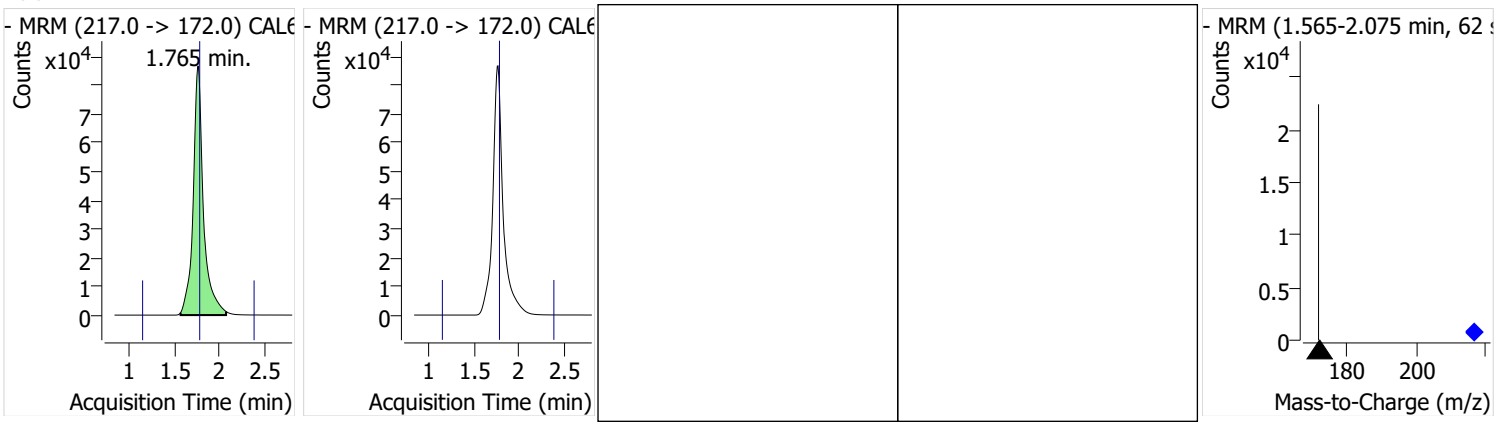

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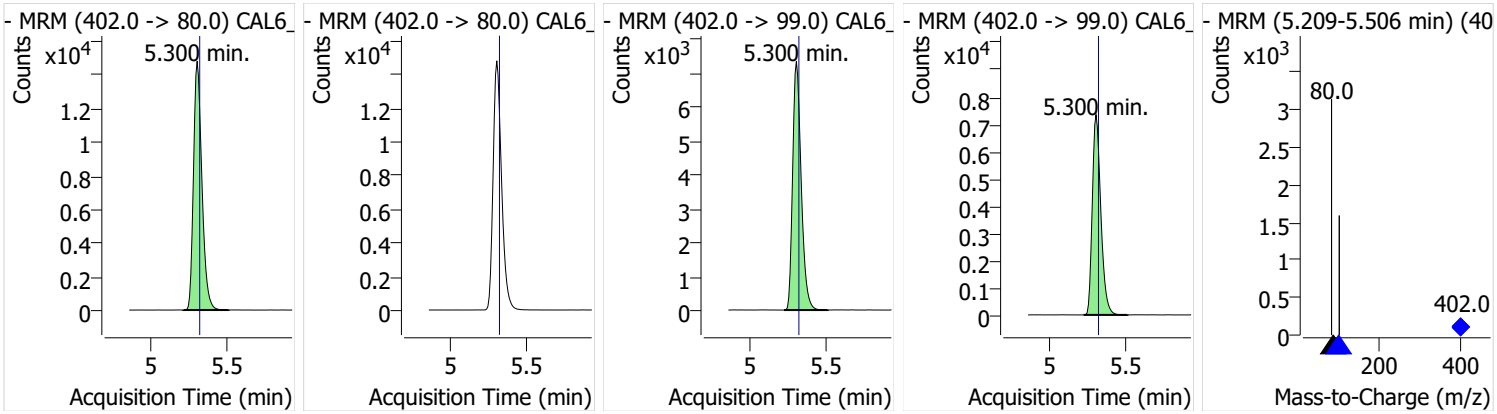

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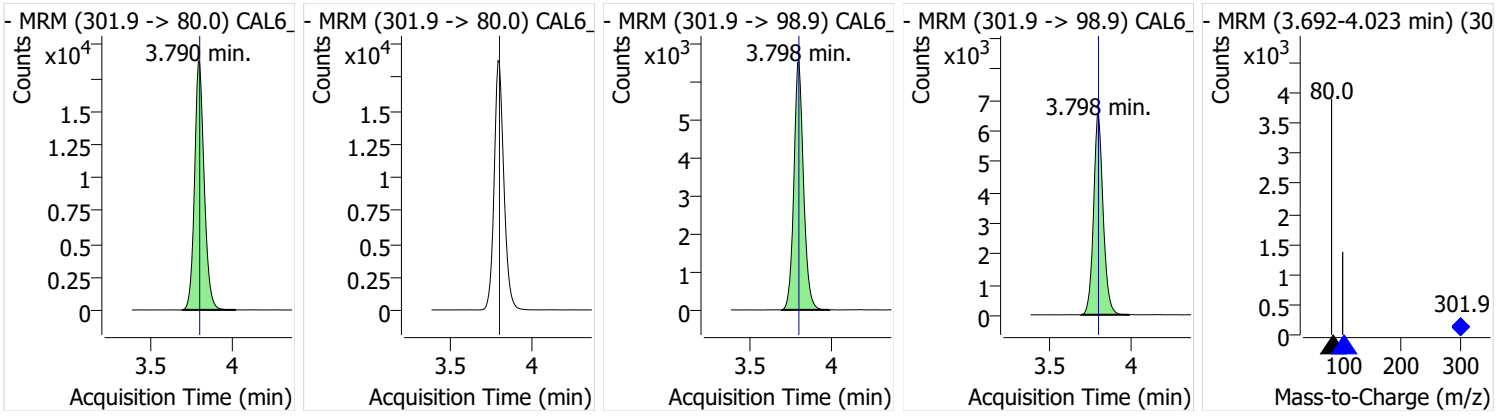

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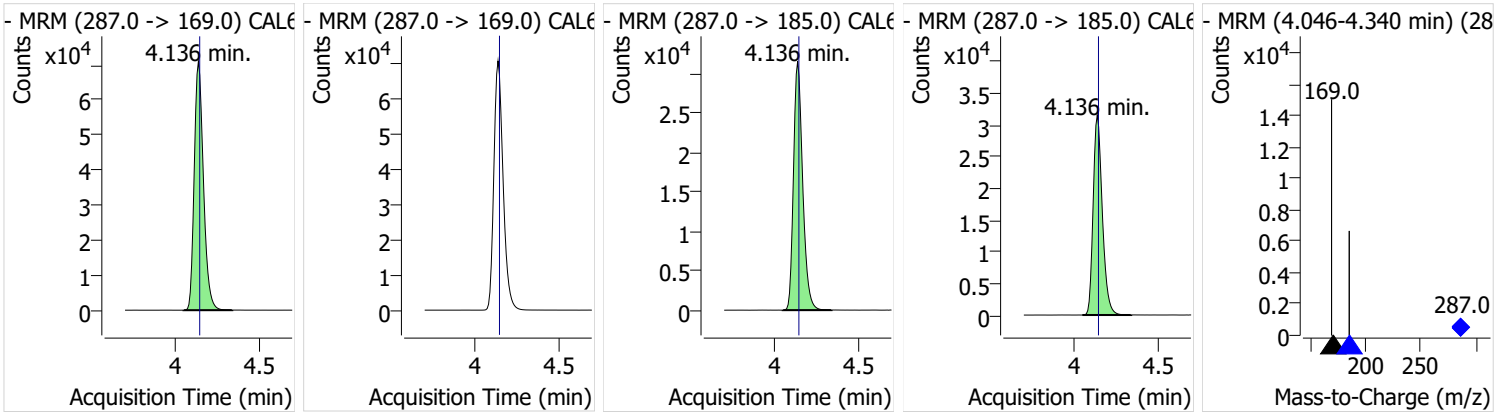

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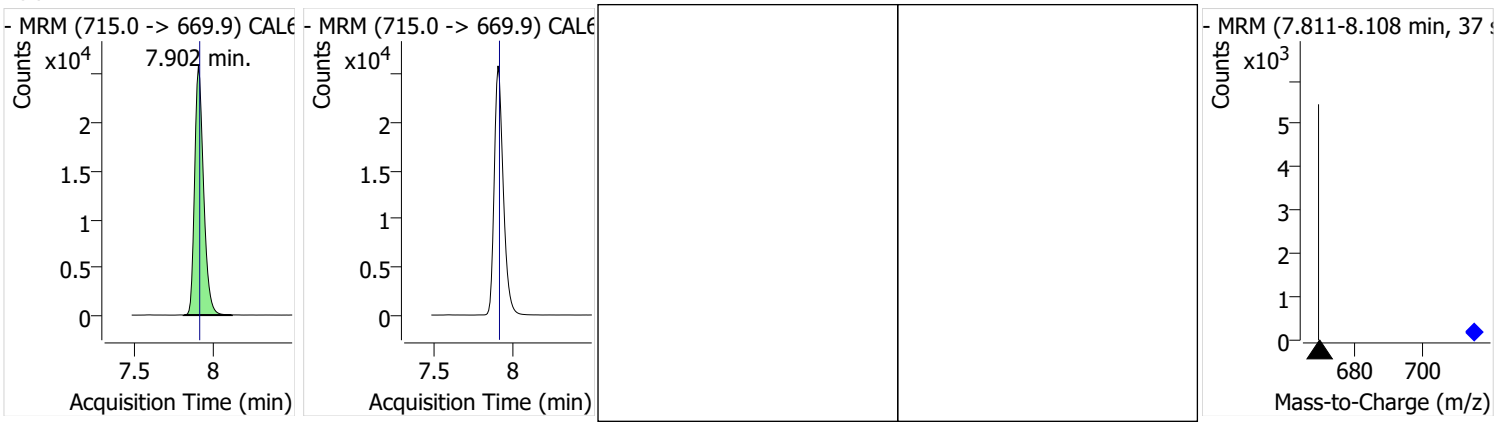

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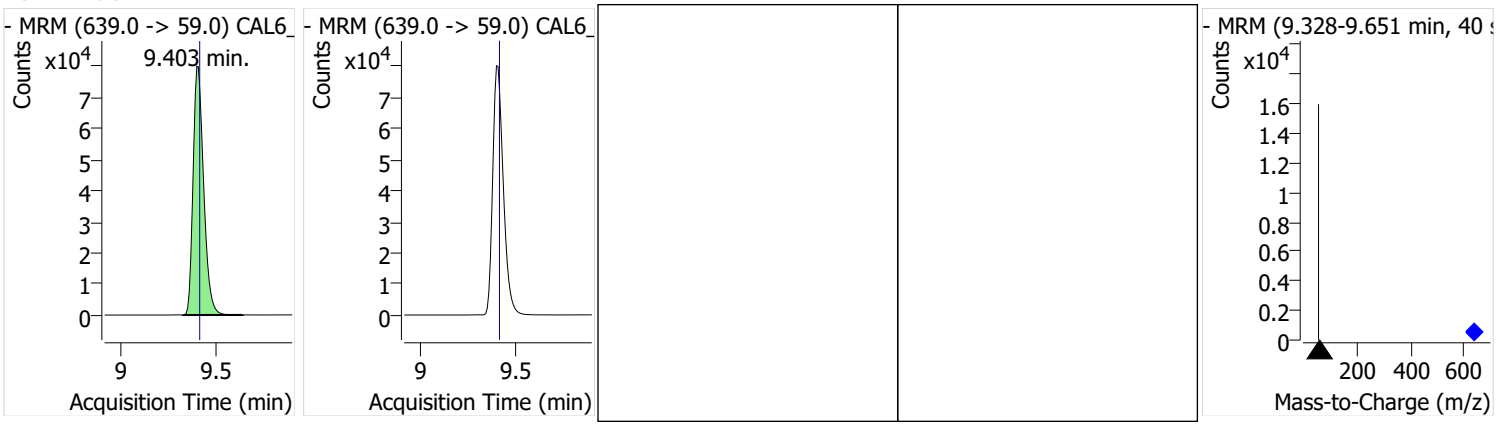

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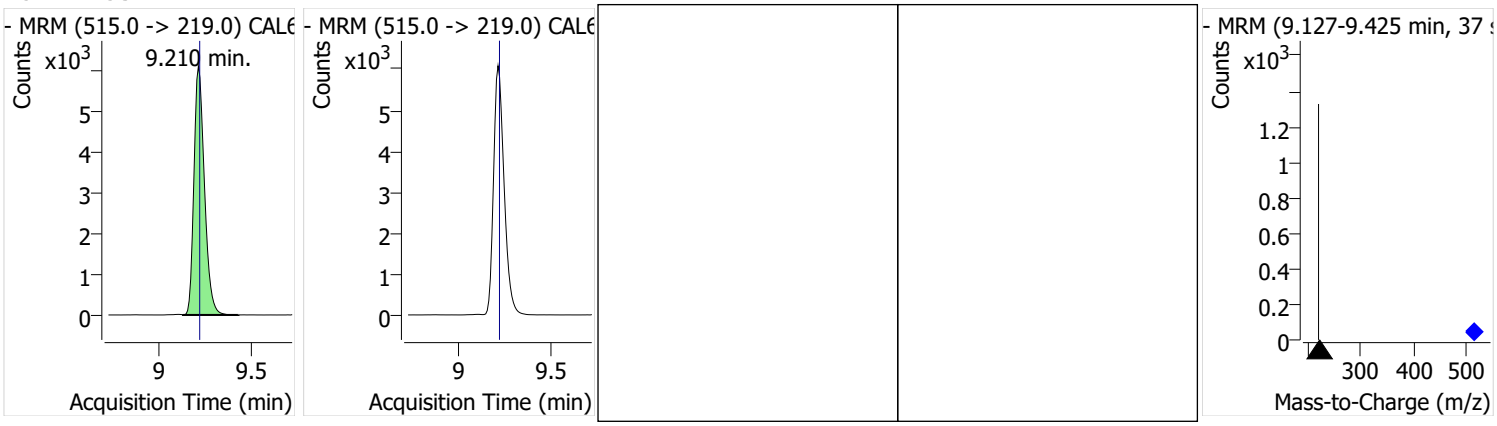

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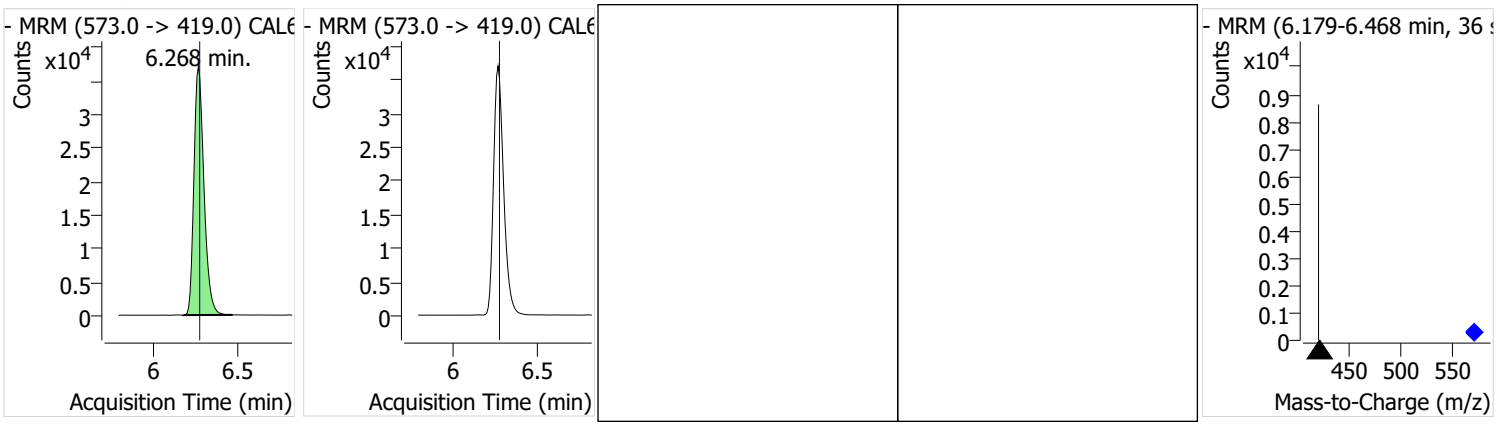

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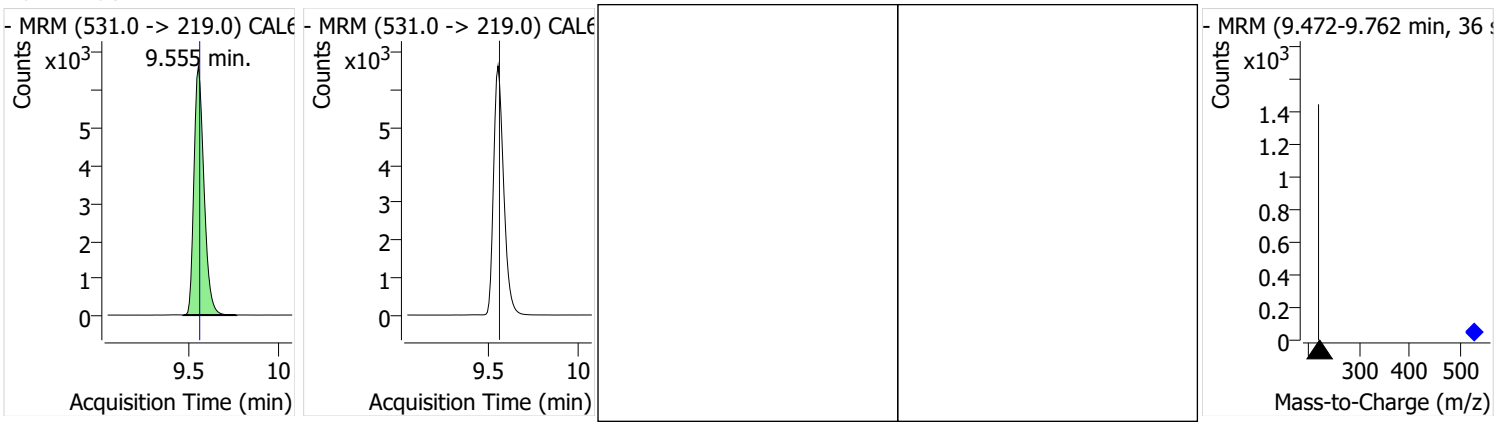
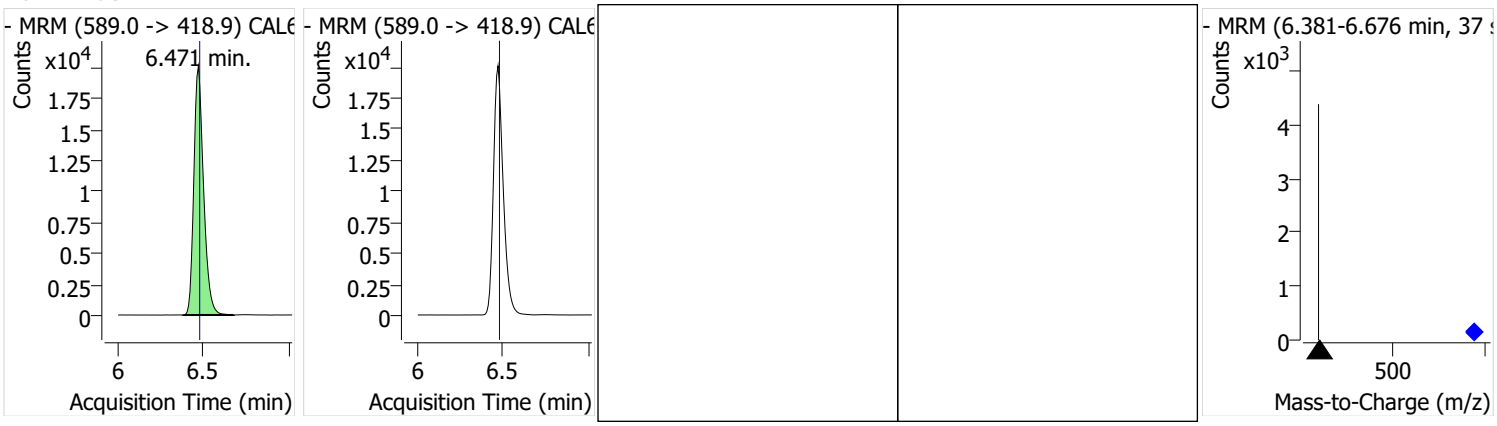
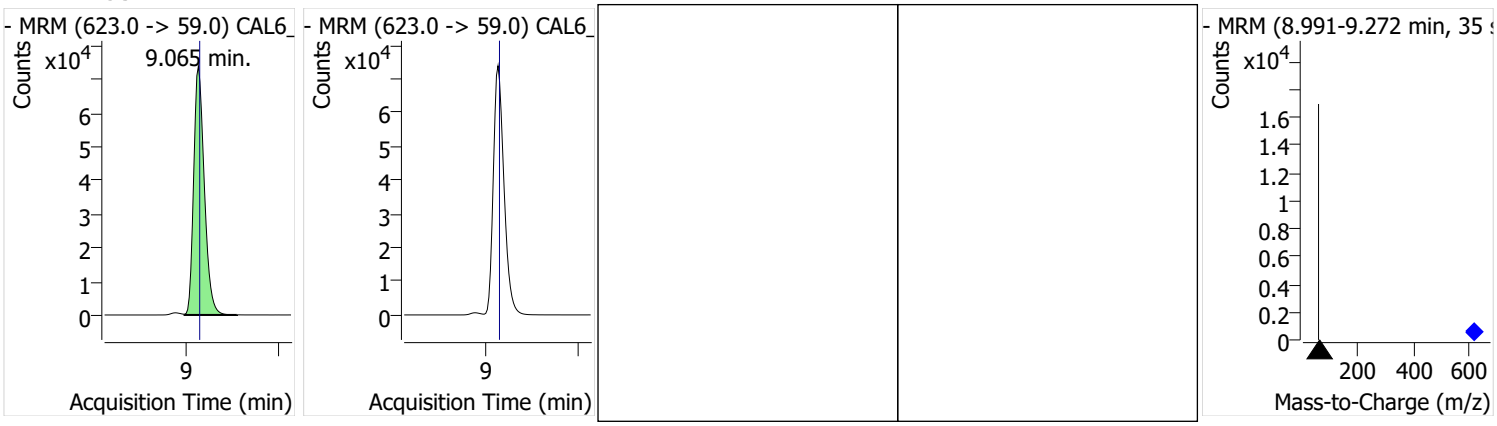


D5-NEtFOSAA



D7-NMeFOSE



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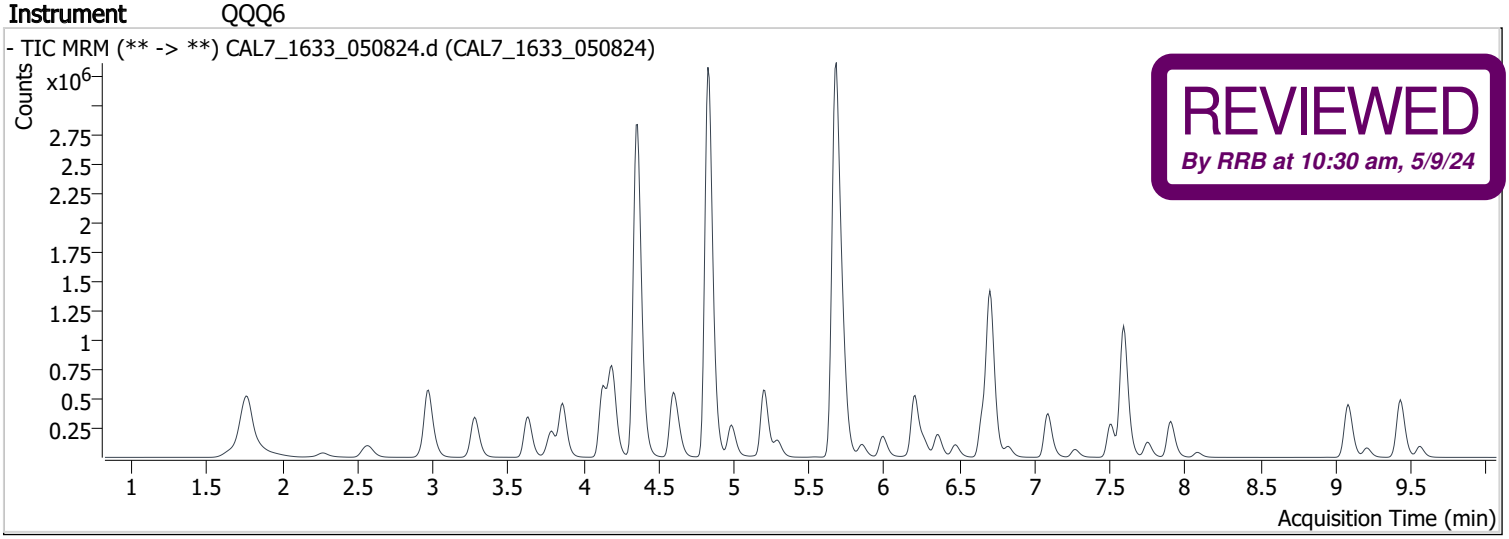
Analysis Time	5/9/2024 9:16 AM	**Last Calib Update**	5/9/2024 9:16 AM
Acq. Time	5/8/2024 7:50 PM	**Data File**	CAL7_1633_050824.d
Sample Type	Cal	**Sample Name**	CAL7_1633_050824
Dilution	1	**Acq. Method**	1633_ACQUISITION_01.m
Sample Comment	E#24E0160	**Processing method**	1633_042924.m
Instrument	QQQ6		



REVIEWED
By RRB at 10:30 am, 5/9/24

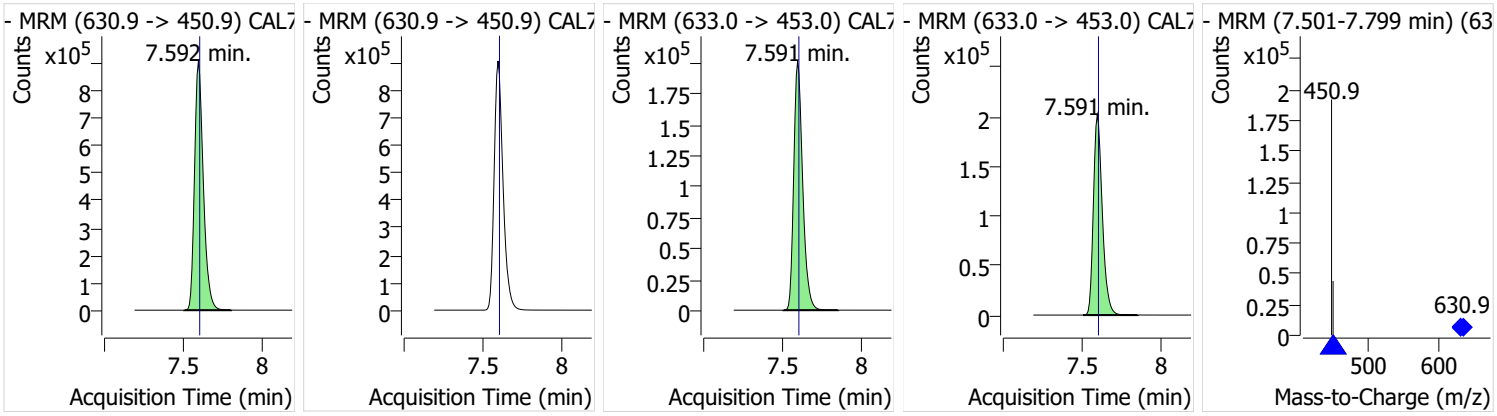
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
11Cl-PF3OUdS	7.592	3523642	438259.54		13C3-HFPODA - ISTD	4.136	268431	44.4815	ng/ml			
633.0 -> 453.0			117142.70	22.4								
3:3FTCA	2.566	373294	71100.51		13C5-PFPeA - ISTD	2.970	428808	122.4788	ng/ml			
241.0 -> 117.0			17648.37	48.5								
4:2FTS	3.631	867346	187409.86		13C2-4:2FTS - ISTD	3.630	31795	46.7325	ng/ml			
327.0 -> 80.9			51791.19	38.5								
5:3FTCA	4.359	5946751	602918.83		13C5-PFHxA - ISTD	3.861	237546	628.2599	ng/ml			
341.0 -> 217.0			497139.70	88.9								
6:2FTS	4.983	671709	213287.15		13C2-6:2FTS - ISTD	4.982	22455	44.1580	ng/ml			
427.0 -> 80.9			44641.80	33.5								
7:3FTCA	5.683	6803227	32334.13		13C5-PFHxA - ISTD	3.861	237546	610.3098	ng/ml			
441.0 -> 317.0			14788.38	91.2								
8:2FTS	5.992	421313	462834.14		13C2-8:2FTS - ISTD	5.991	18102	45.5907	ng/ml			
527.0 -> 81.0			34307.46	42.0								
9Cl-PF3ONS	6.704	3980529	109950.73		13C3-HFPODA - ISTD	4.136	268431	44.9342	ng/ml			
533.0 -> 353.0			75702.60	29.7								
ADONA	4.830	9360372	38113.60		13C3-HFPODA - ISTD	4.136	268431	46.9319	ng/ml			
377.0 -> 85.1			27640.41	33.8								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA	4.137	1211682	36365.61		13C3-HFPODA - ISTD	4.136	268431	49.0515	ng/ml			
285.0 -> 184.9			22653.36	52.6								
NEtFOSA	9.565	159021	100161.42		D5-NEtFOSA - ISTD	9.555	25000	12.2437	ng/ml			
526.0 -> 219.0			174581.02	95.2								
NEtFOSAA	6.472	233689	10469.25		D5-NEtFOSAA - ISTD	6.463	77479	12.4598	ng/ml	✔	3	AMS 05/09/24
584.0 -> 526.0			5300.17	67.8								
NEtFOSE	9.428	1662988	500870.78		D9-NEtFOSE - ISTD	9.403	300941	123.6867	ng/ml			
NFDHA	3.775	197030	29776.97		13C5-PFHxA - ISTD	3.861	237546	24.5356	ng/ml			
295.0 -> 85.0			8422.88	34.9								
NMeFOSA	9.211	140466	70427.66		D3-NMeFOSA - ISTD	9.210	23283	12.4552	ng/ml			
512.0 -> 219.0			83276.53	93.0								
NMeFOSAA	6.269	157704	3827.55		D3-NMeFOSAA - ISTD	6.260	155309	11.9743	ng/ml	✔	3	AMS 05/09/24
570.0 -> 418.9			3437.37	67.1								
NMeFOSE	9.082	1523152	589611.61		D7-NMeFOSE - ISTD	9.065	285023	123.7658	ng/ml			
PFBA	1.762	3164109	44194.96		13C4-PFBA - ISTD	1.765	704675	48.6442	ng/ml			
PFBS	3.791	414762	81233.75		13C3-PFBS - ISTD	3.798	77403	10.7351	ng/ml			
298.9 -> 98.8			28275.56	40.3								
PFDA	6.206	1404987	41545.03		13C6-PFDA - ISTD	6.205	142394	11.9732	ng/ml			
513.0 -> 219.0			68580.45	16.5								
PFDoA	7.087	1179281	28250.22		13C2-PFDoA - ISTD	7.087	116620	12.1997	ng/ml			
613.0 -> 319.0			52631.20	13.0								
PFDoS	8.078	98165	23114.32		13C8-PFOS - ISTD	6.362	41186	11.9598	ng/ml			
698.9 -> 99.0			40094.42	64.3								
PFDS	7.271	160311	25382.89		13C8-PFOS - ISTD	6.362	41186	11.9468	ng/ml			
599.0 -> 98.8			30986.65	59.7								
PFEESA	4.189	2572872	204587.26		13C5-PFHxA - ISTD	3.861	237546	21.5206	ng/ml			
315.0 -> 83.0			34961.52	7.0								
PFHpA	4.599	1372342	26297.75		13C4-PFHpA - ISTD	4.599	271135	12.1434	ng/ml			
362.9 -> 169.0			25848.02	17.9								
PFHpS	5.857	258331	42902.68		13C8-PFOS - ISTD	6.362	41186	11.8992	ng/ml			
449.0 -> 98.8			25749.59	51.7								

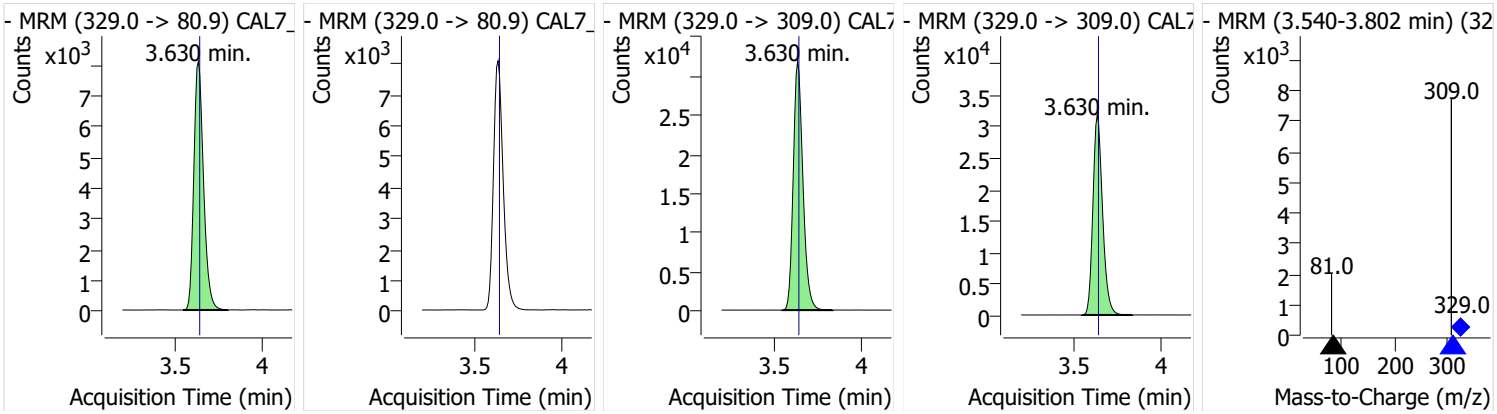
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFHxA	3.863	1183847	14139.51		13C5-PFHxA - ISTD	3.861	237546	12.2579	ng/ml			
313.0 -> 118.9			8175.90	3.5								
PFHxS	5.301	282438	27057.52		13C3-PFHxS - ISTD	5.292	57441	10.8916	ng/ml	✔	3	AMS 05/09/24
398.9 -> 99.0			17910.36	45.4								
PFMBA	3.280	1418031	397133.07		13C5-PFPeA - ISTD	2.970	428808	24.0185	ng/ml			
PFMPA	2.267	224659	17522.93		13C5-PFPeA - ISTD	2.970	428808	23.9377	ng/ml			
PFNA	5.722	1376351	30952.21		13C9-PFNA - ISTD	5.721	147217	11.6271	ng/ml			
463.0 -> 219.0			69284.18	22.3								
PFNS	6.826	203752	21398.19		13C8-PFOS - ISTD	6.362	41186	12.1520	ng/ml			
549.0 -> 98.8			53439.16	53.9								
PFOA	5.198	1525137	9127.71		13C8-PFOA - ISTD	5.197	248066	12.2458	ng/ml			
413.0 -> 169.0			16244.06	24.4								
PFOS	6.355	236965	18008.62		13C8-PFOS - ISTD	6.362	41186	11.0698	ng/ml	✔	3	AMS 05/09/24
499.0 -> 99.0			14876.39	48.1								
PFOSA	7.753	400345	165352.70		13C8-PFOSA - ISTD	7.760	73481	12.3394	ng/ml			
497.9 -> 478.0			11135.46	3.1								
PFPeA	2.971	2120026	81490.24		13C5-PFPeA - ISTD	2.970	428808	24.4795	ng/ml			
263.0 -> 69.0			3038.55	0.3								
PFPeS	4.633	339267	34078.69		13C3-PFHxS - ISTD	5.292	57441	11.3979	ng/ml			
349.0 -> 98.9			29066.70	47.0								
PFTeDA	7.902	996000	19362.37		13C2-PFTeDA - ISTD	7.902	100527	12.3138	ng/ml			
713.0 -> 168.9			11996.78	8.1								
PFTrDA	7.508	984649	23750.77		13C2-PFDoA - ISTD	7.087	116620	11.9570	ng/ml			
663.0 -> 168.9			9418.85	13.2								
PFUnA	6.654	1103665	39022.49		13C7-PFUnA - ISTD	6.653	113764	12.0710	ng/ml			
563.0 -> 269.1			29037.48	18.1								
TDCA	6.225	50799	3680.21					-	ng/ml			
499.0 -> 99.0			2039.81	26.8								
13C2-8:2FTS	5.991	18102	5059.41		18O2-PFHxS	5.299	53230	5.1737	ng/ml			
529.0 -> 509.0			16228.77	404.7								
13C2-4:2FTS	3.630	31795	4259.03		18O2-PFHxS	5.299	53230	4.9913	ng/ml			

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
329.0 -> 309.0			40796.46	393.2								
13C2-6:2FTS	4.982	22455	9953.90		18O2-PFHxS	5.299	53230	5.2168	ng/ml			
429.0 -> 409.0			23281.55	496.9								
13C5-PFHxA	3.861	237546	29744.47		13C2-PFHxA	3.861	214285	2.6901	ng/ml			
318.0 -> 120.0			602.02	1.9								
13C6-PFDA	6.205	142394	12395.91		13C2-PFDA	6.205	128497	1.4045	ng/ml			
13C7-PFUnA	6.653	113764	13306.81		13C2-PFDA	6.205	128497	1.3860	ng/ml			
13C8-PFOA	5.197	248066	49495.93		13C4-PFOA	5.198	35007	2.5847	ng/ml			
13C8-PFOS	6.362	41186	6651.22		13C4-PFOS	6.355	42407	2.7015	ng/ml			
507.0 -> 99.0			5703.35	52.7								
13C8-PFOSA	7.760	73481	521331.29		13C4-PFOS	6.355	42407	2.7404	ng/ml			
13C9-PFNA	5.721	147217	16491.22		13C5-PFNA	5.722	162850	1.3256	ng/ml			
13C5-PFPeA	2.970	428808	12282.24		13C2-PFHxA	3.861	214285	5.4185	ng/ml			
13C2-PFDoA	7.087	116620	11463.58		13C2-PFDA	6.205	128497	1.3766	ng/ml			
13C4-PFHpA	4.599	271135	29332.65		13C2-PFHxA	3.861	214285	2.7450	ng/ml			
13C4-PFBA	1.765	704675	149260.97		13C3-PFBA	1.760	303162	10.7060	ng/ml			
13C3-PFHxS	5.292	57441	12911.64		18O2-PFHxS	5.299	53230	2.6424	ng/ml			
402.0 -> 99.0			16211.48	50.2								
13C3-PFBS	3.798	77403	21102.37		18O2-PFHxS	5.299	53230	2.6905	ng/ml			
301.9 -> 98.9			10806.73	36.9								
13C3-HFPODA	4.136	268431	31896.65		13C2-PFHxA	3.861	214285	10.8679	ng/ml			
287.0 -> 185.0			13641.96	43.7								
13C2-PFTeDA	7.902	100527	11032.16		13C2-PFDA	6.205	128497	1.3781	ng/ml			
D9-NEtFOSE	9.403	300941	57555.77		13C4-PFOS	6.355	42407	26.9893	ng/ml			
D3-NMeFOSA	9.210	23283	13766.17		13C4-PFOS	6.355	42407	2.7072	ng/ml			
D3-NMeFOSAA	6.260	155309	33638.95		13C4-PFOS	6.355	42407	5.6534	ng/ml			
D5-NEtFOSA	9.555	25000	8037.45		13C4-PFOS	6.355	42407	2.7868	ng/ml			
D5-NEtFOSAA	6.463	77479	7192.93		13C4-PFOS	6.355	42407	5.5736	ng/ml			
D7-NMeFOSE	9.065	285023	154989.72		13C4-PFOS	6.355	42407	27.3521	ng/ml			

11Cl-PF3OUdS



13C2-4:2FTS - ISTD



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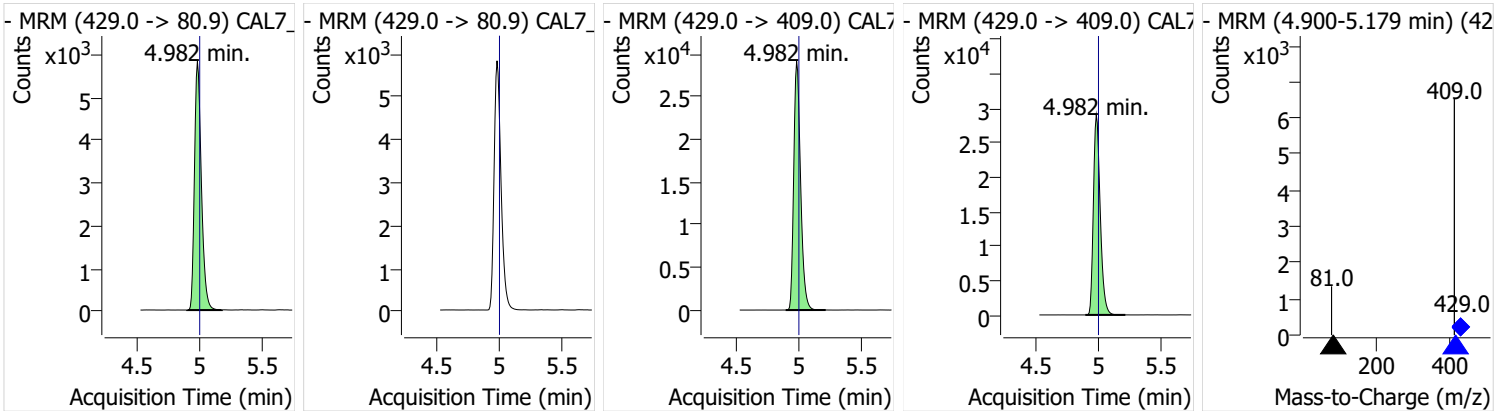

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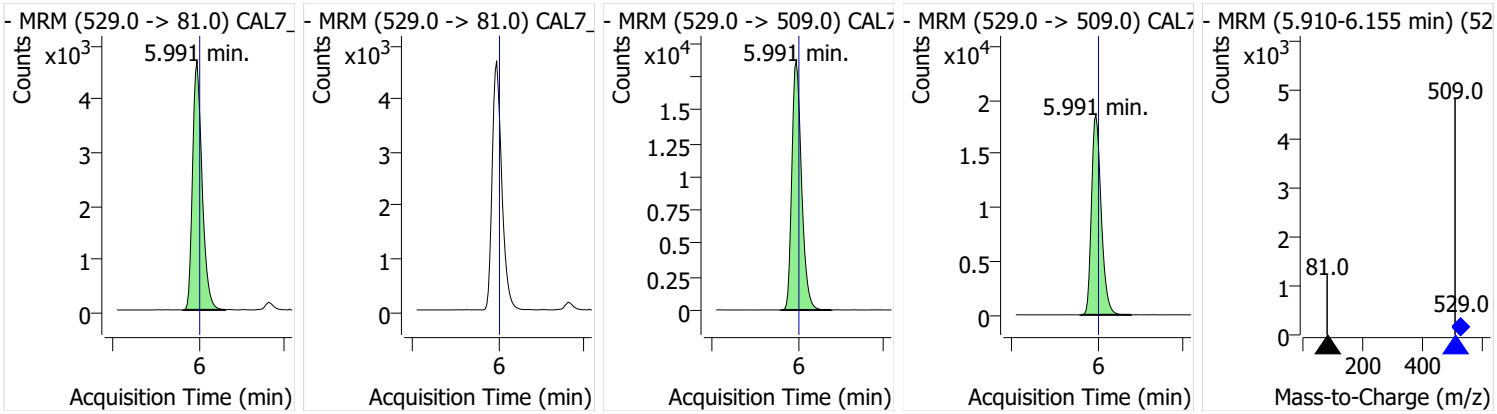
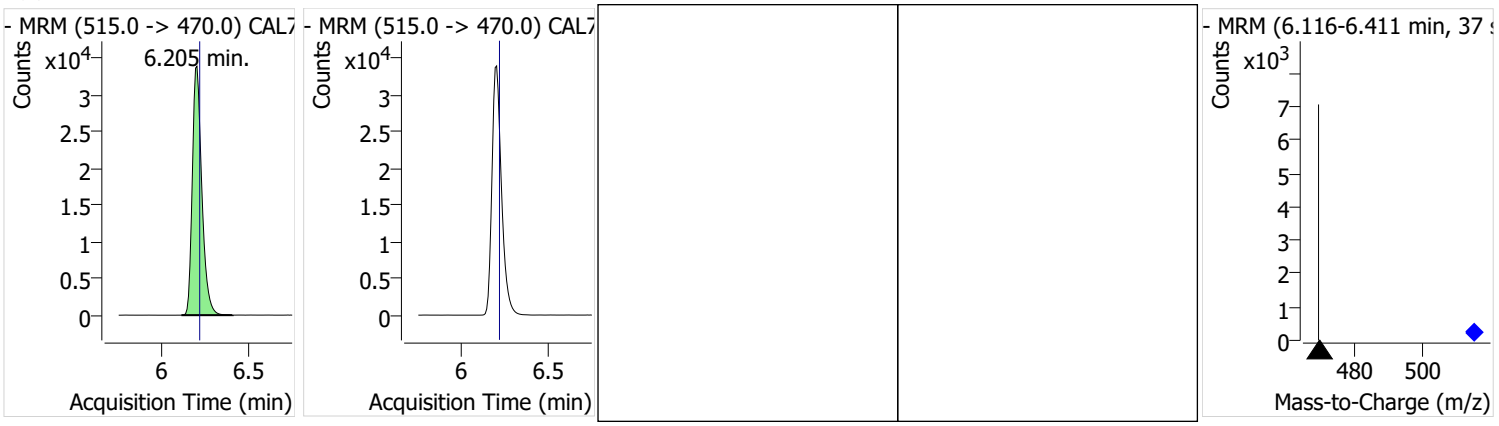


13C2-PFDA



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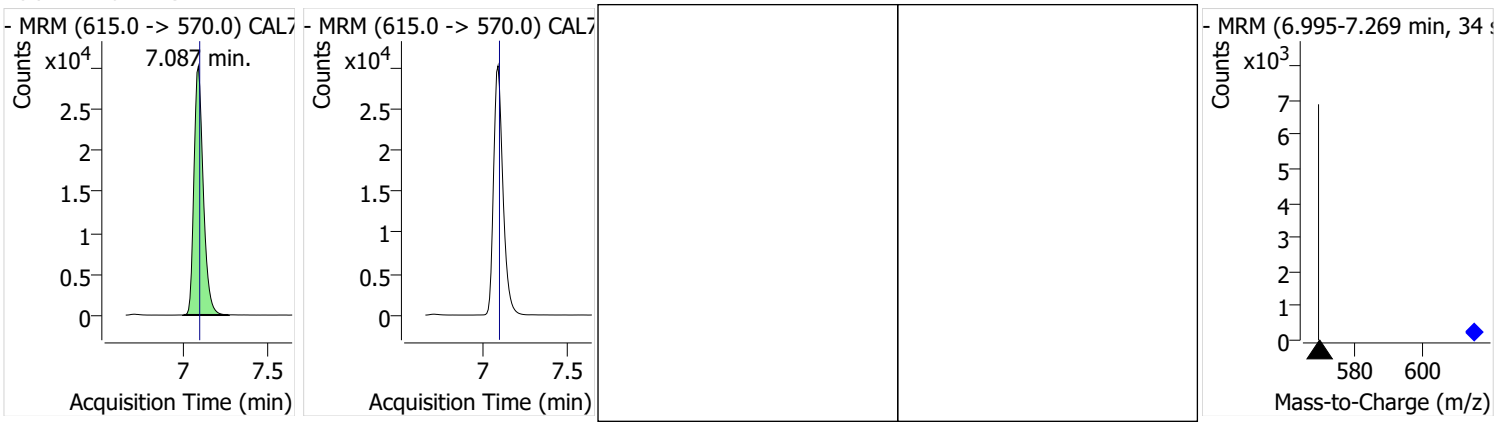
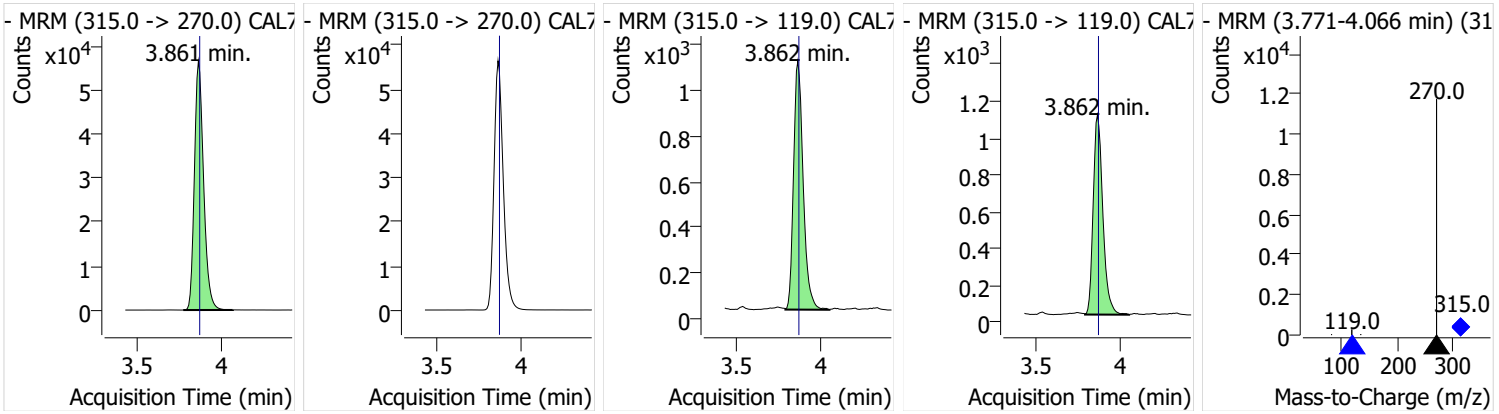
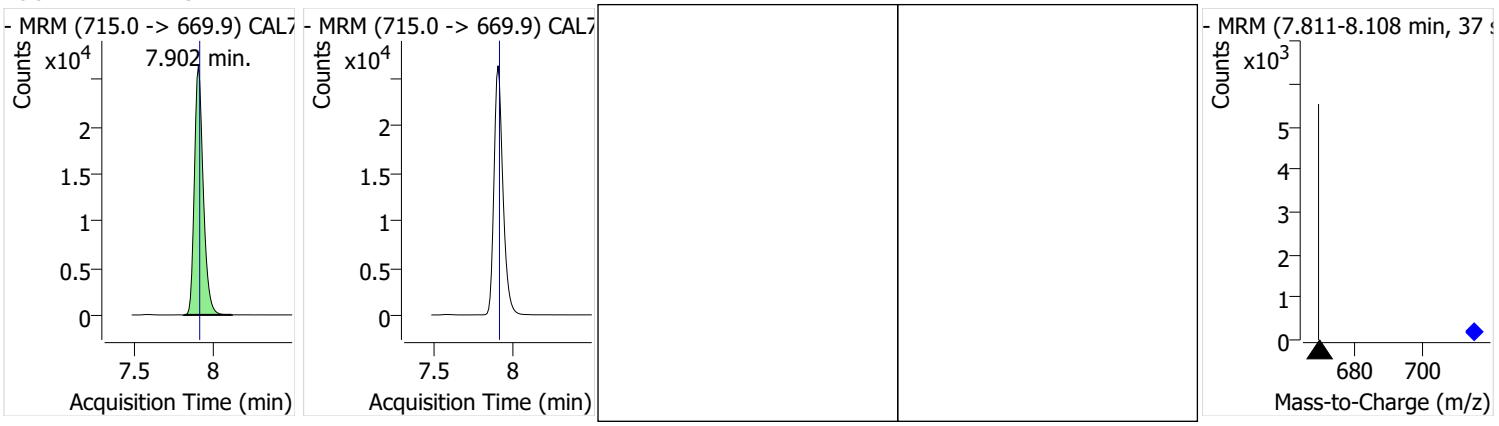


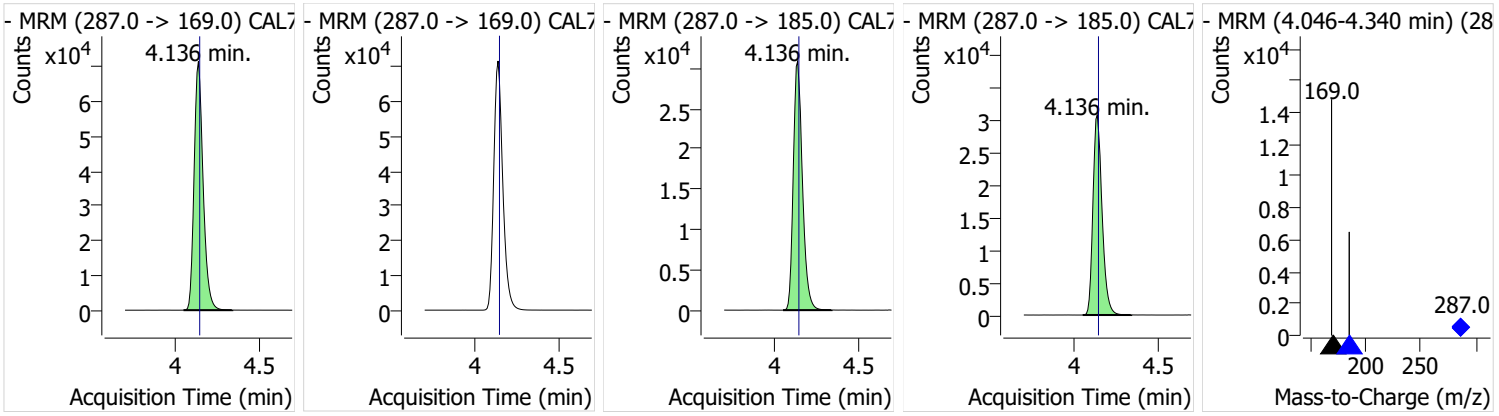
13C2-PFHxA



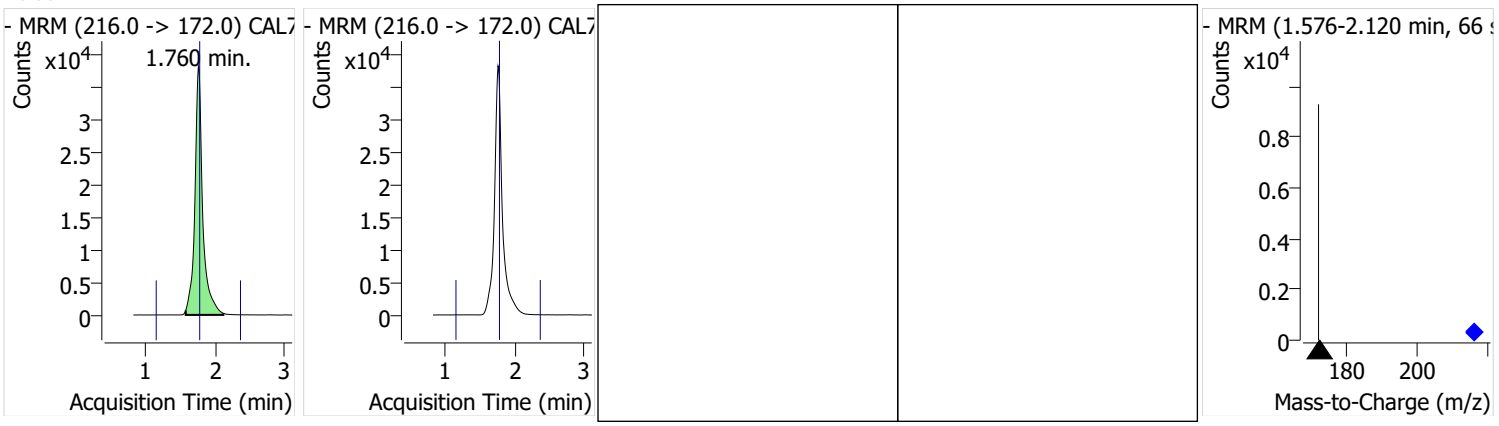
13C2-PFTeDA - ISTD



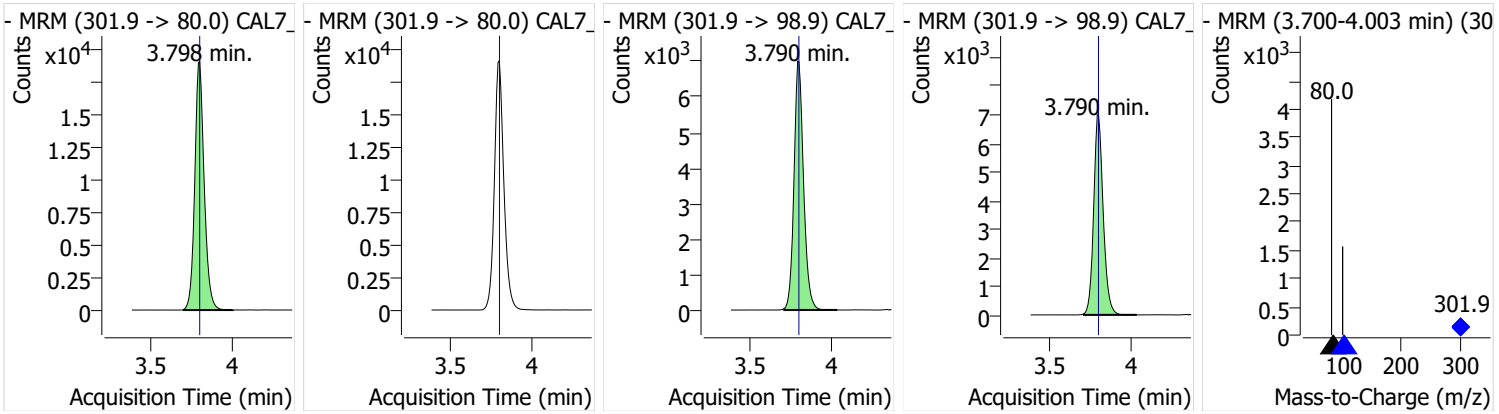
13C3-HFPODA - ISTD



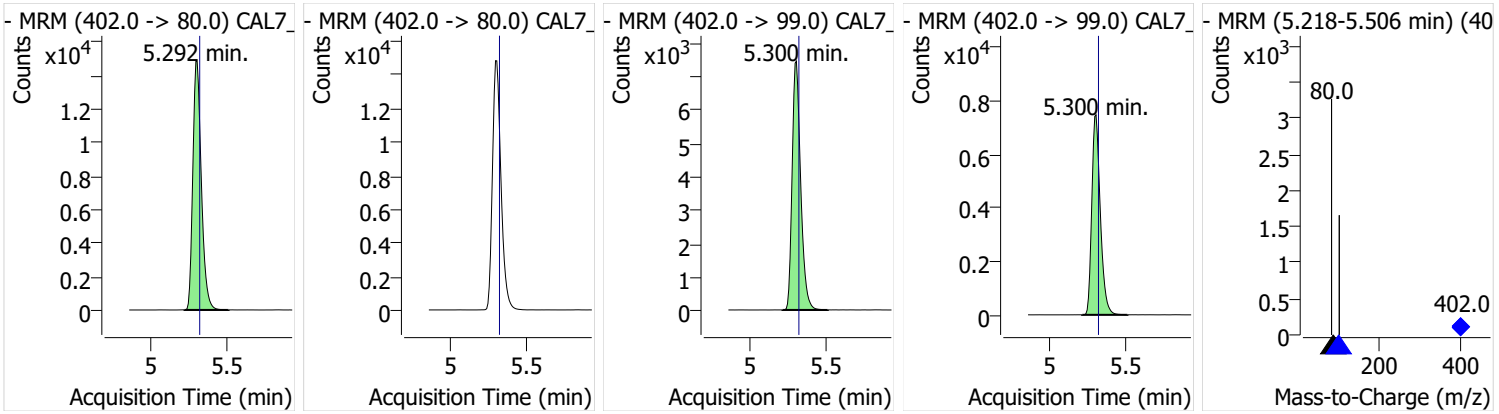
13C3-PFBA



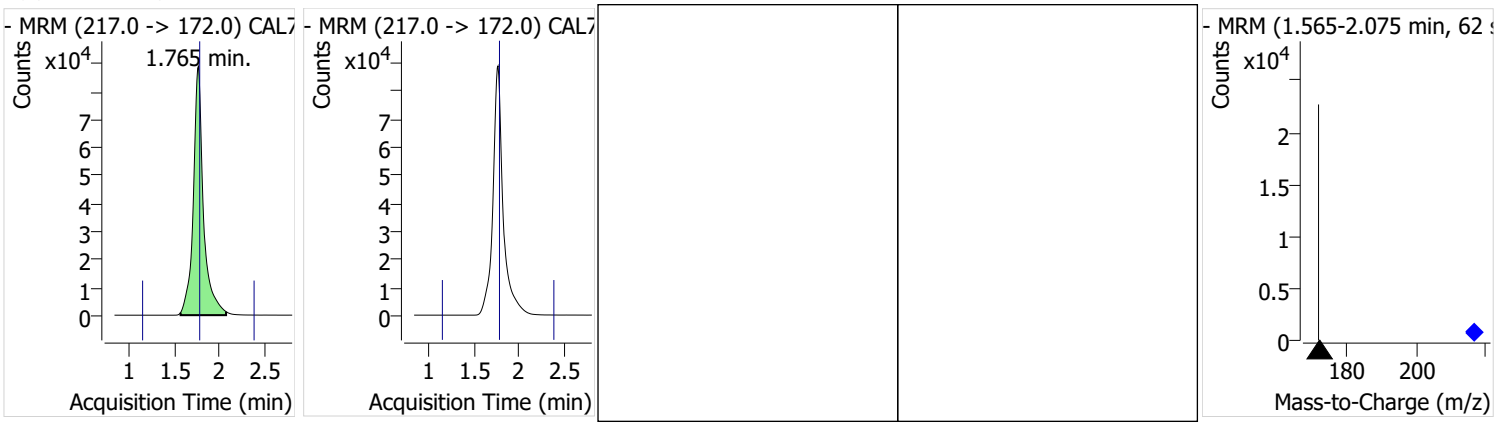
13C3-PFBS - ISTD



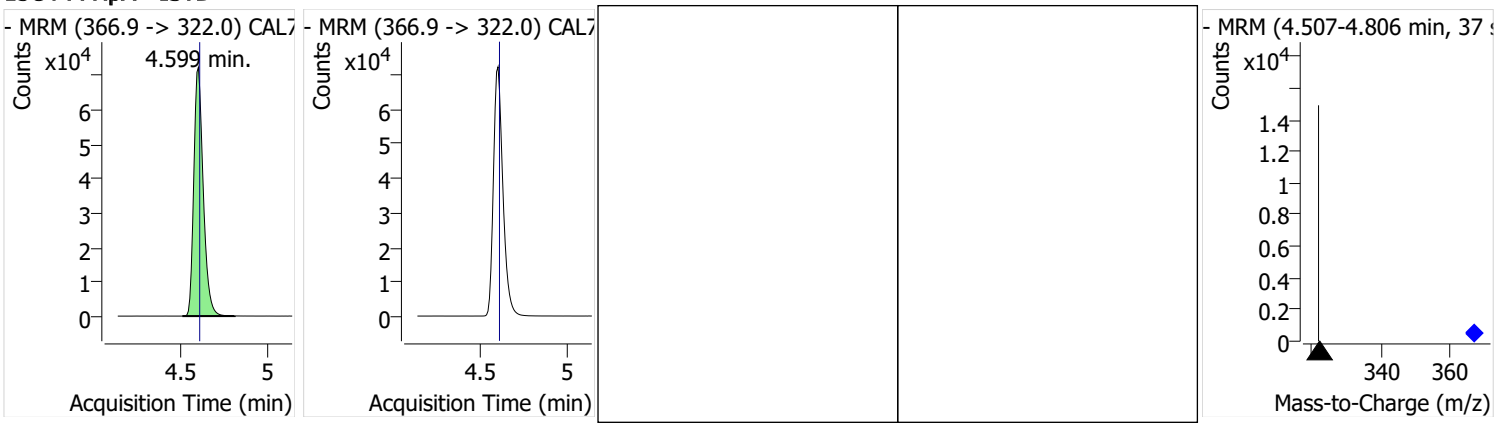
13C3-PFHxS - ISTD



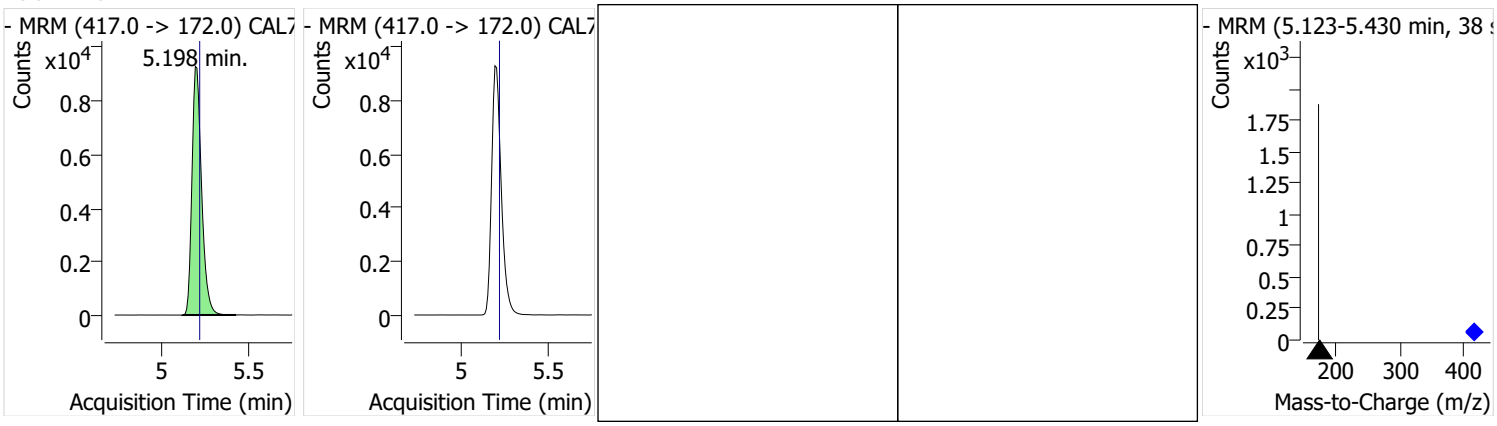
13C4-PFBA - ISTD



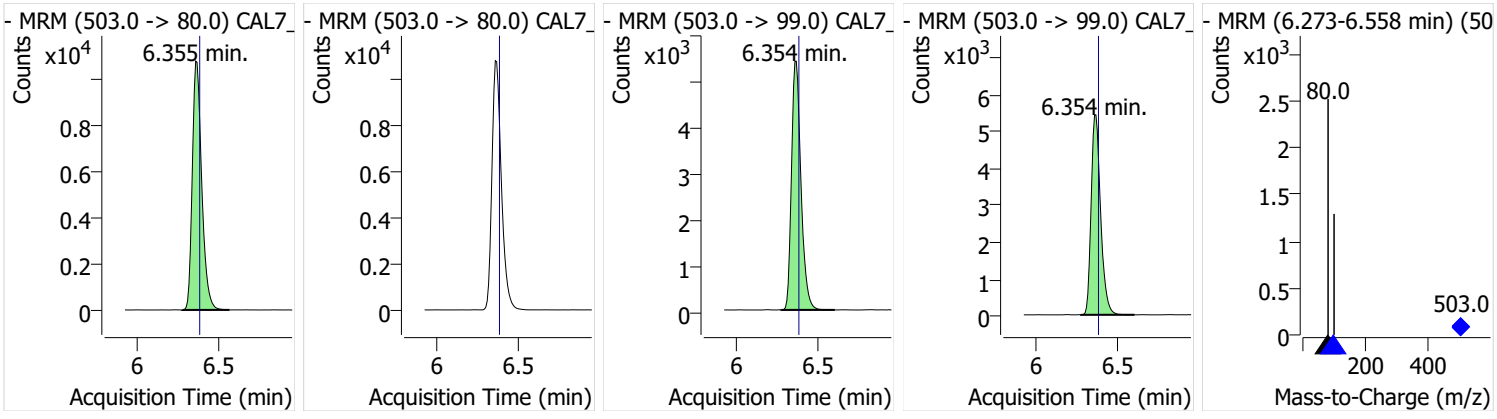
13C4-PFHpA - ISTD



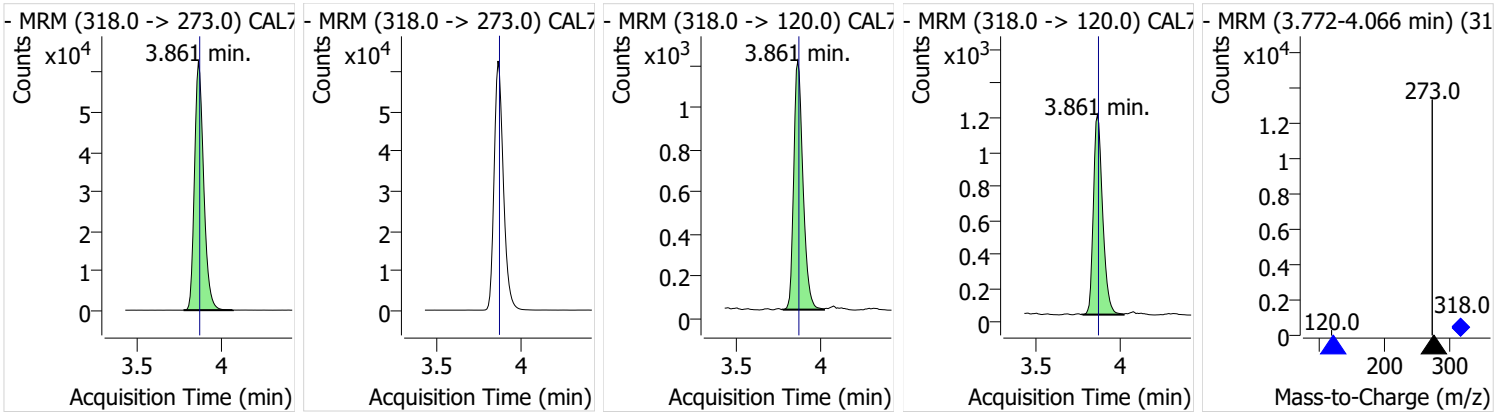
13C4-PFOA



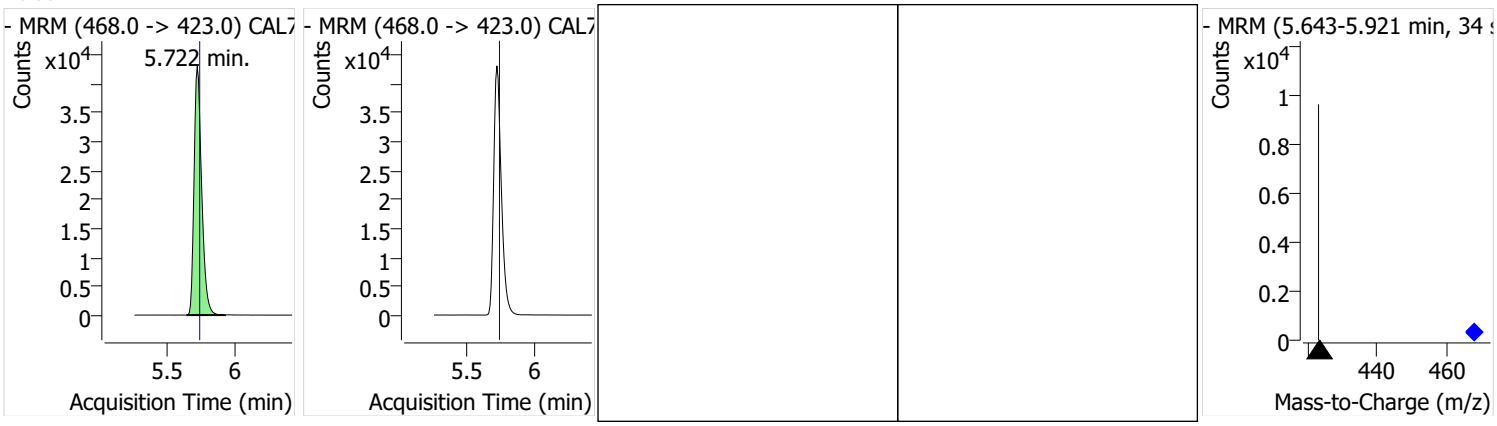
13C4-PFOS



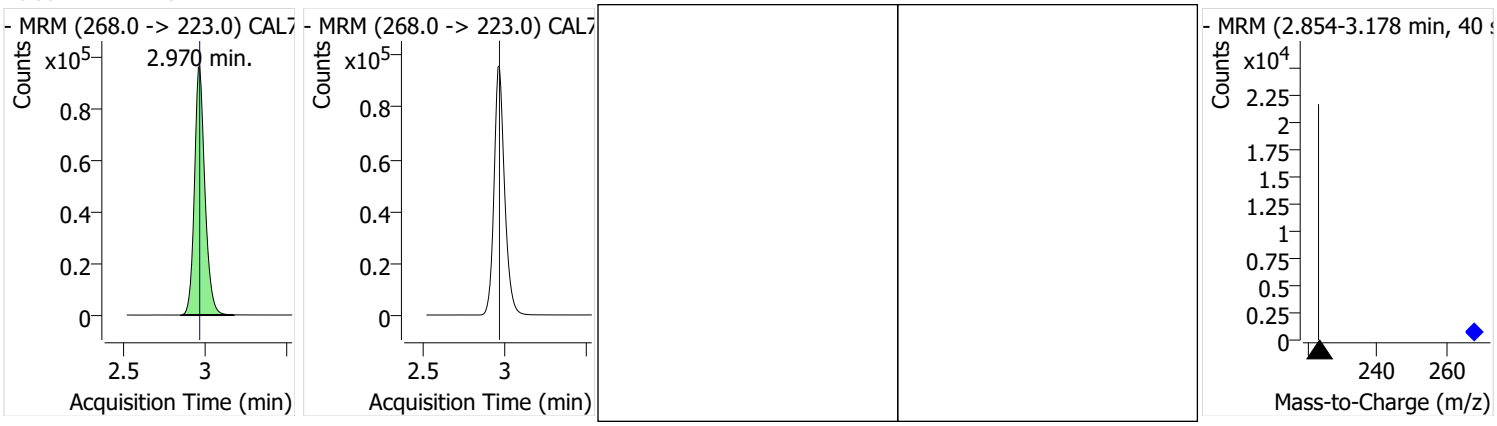
13C5-PFHxA - ISTD



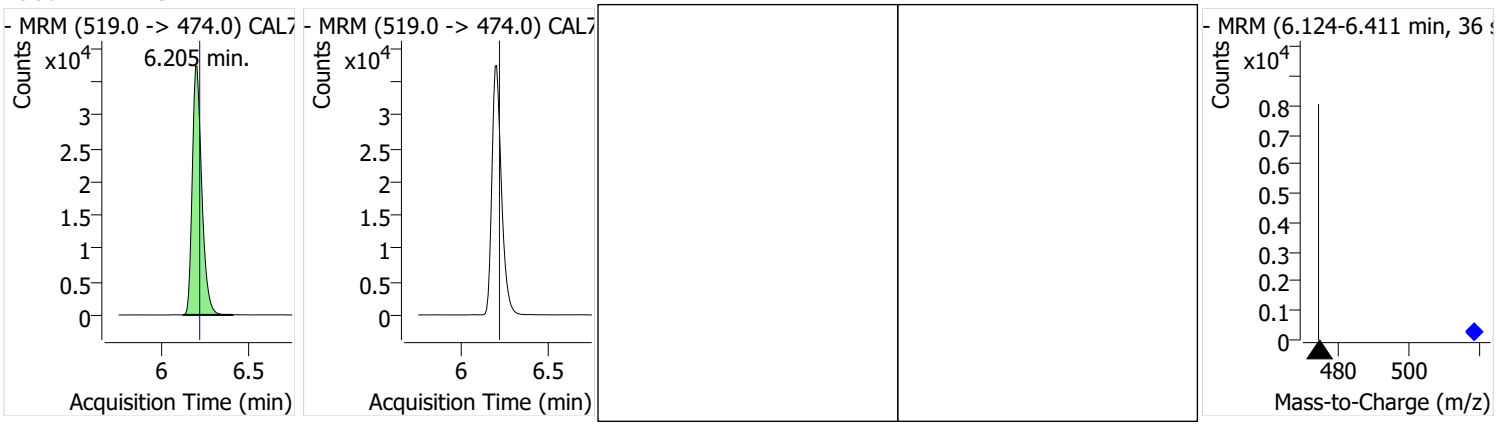
13C5-PFNA



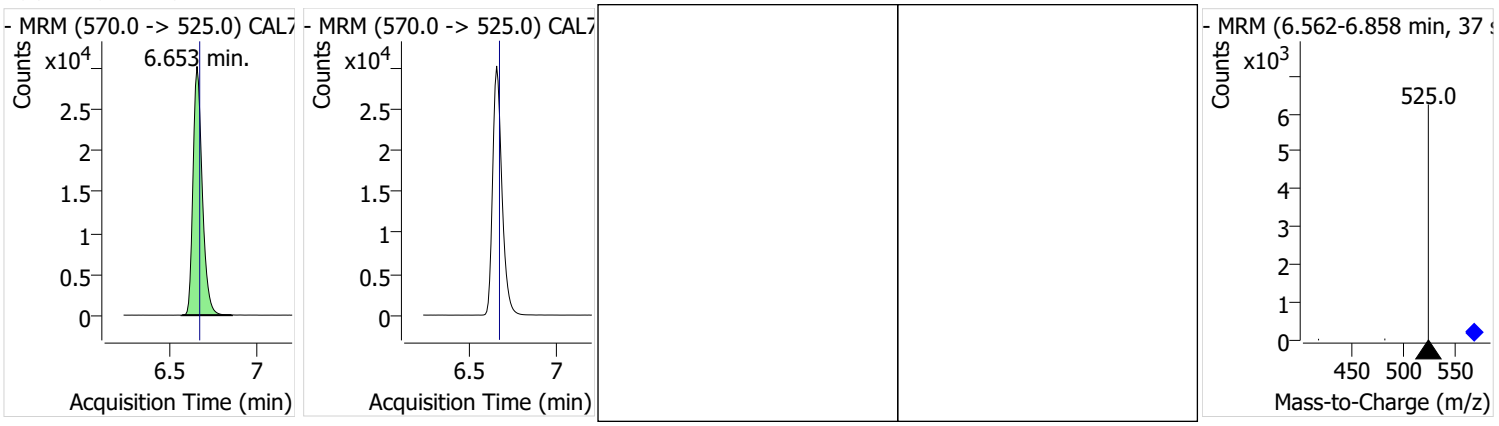
13C5-PFPeA - ISTD



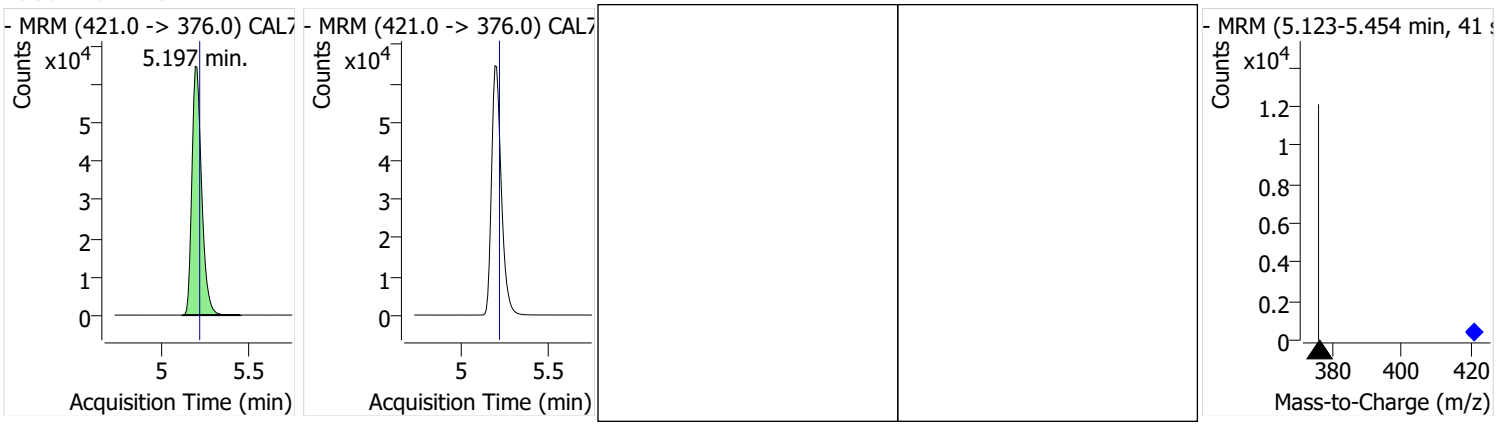
13C6-PFDA - ISTD



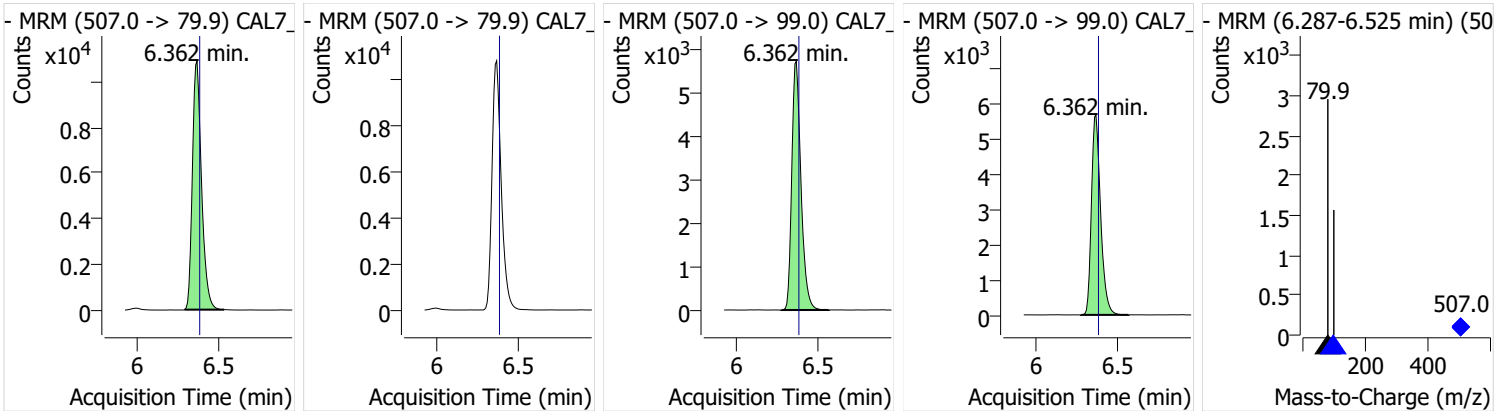
13C7-PFUnA - ISTD



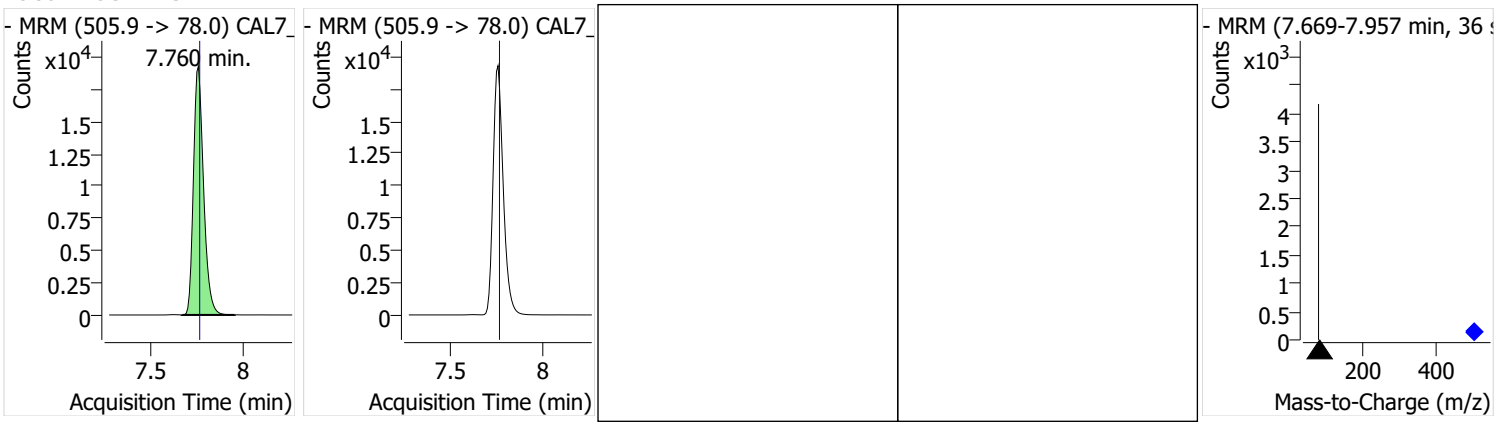
13C8-PFOA - ISTD



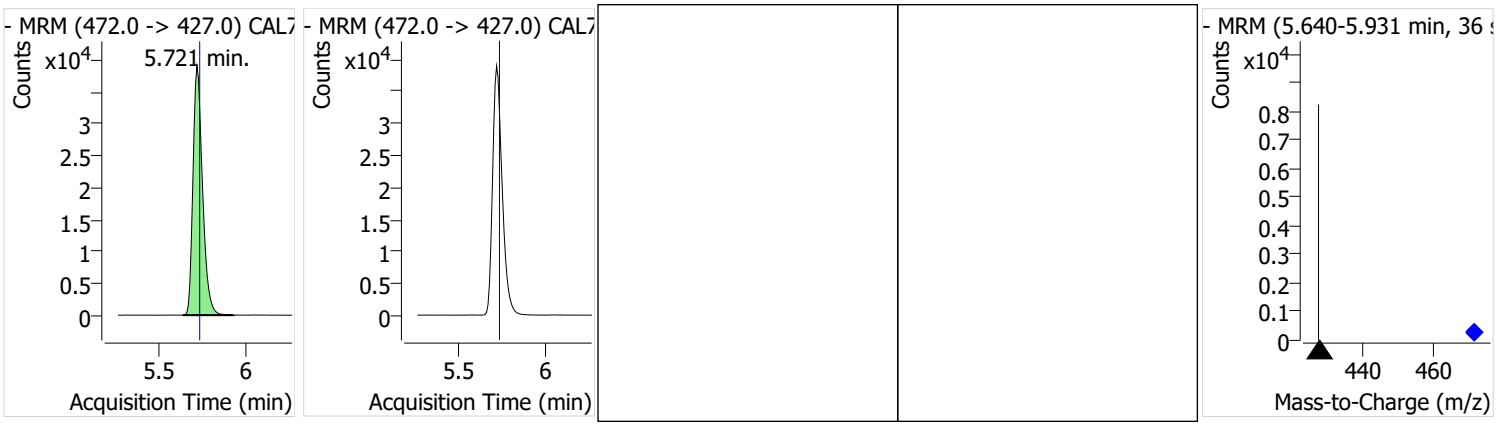
13C8-PFOS - ISTD



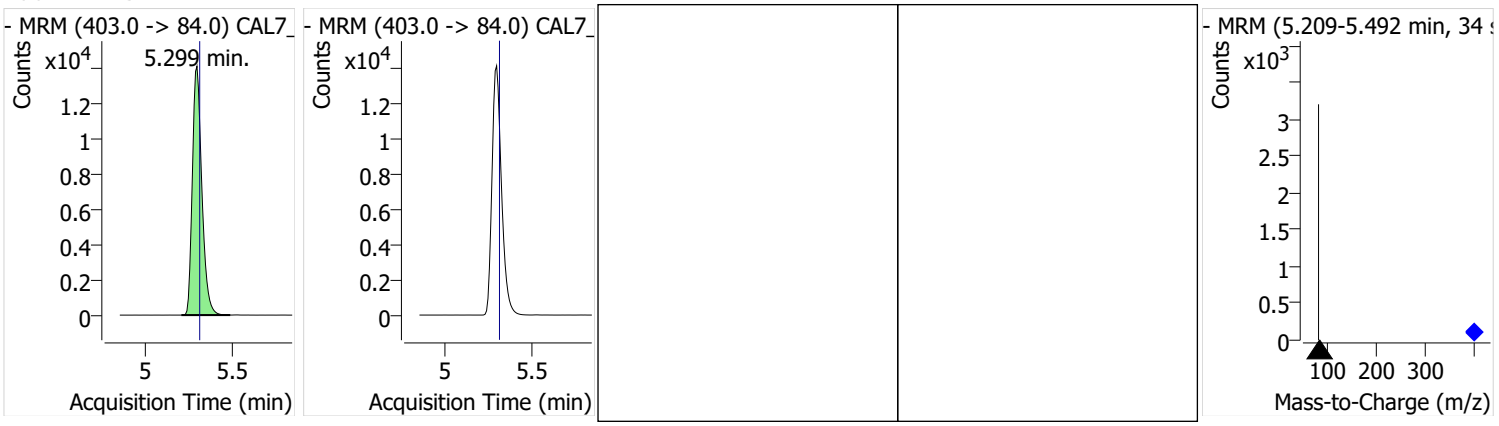
13C8-PFOSA - ISTD



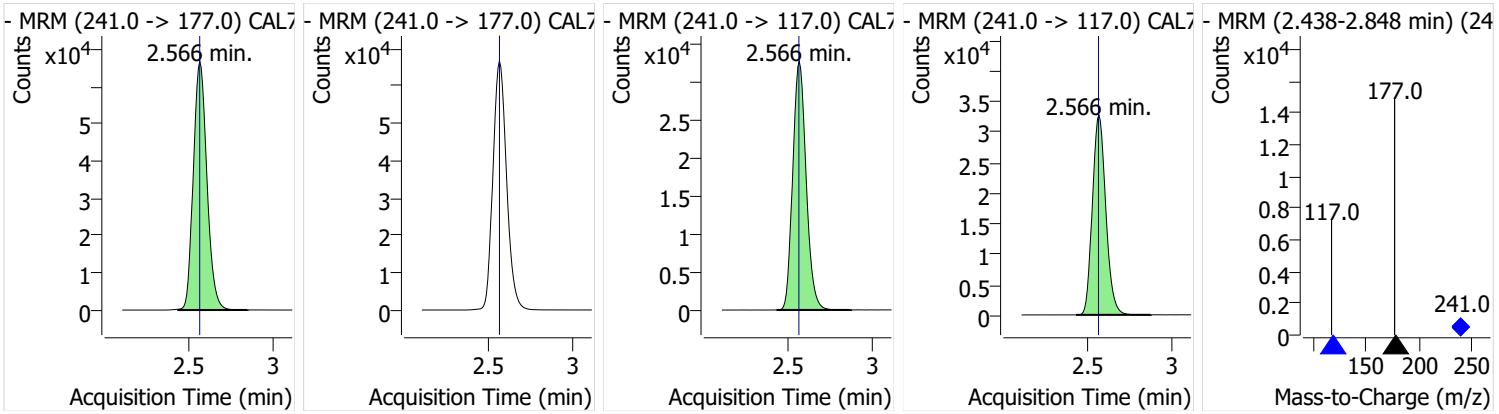
13C9-PFNA - ISTD



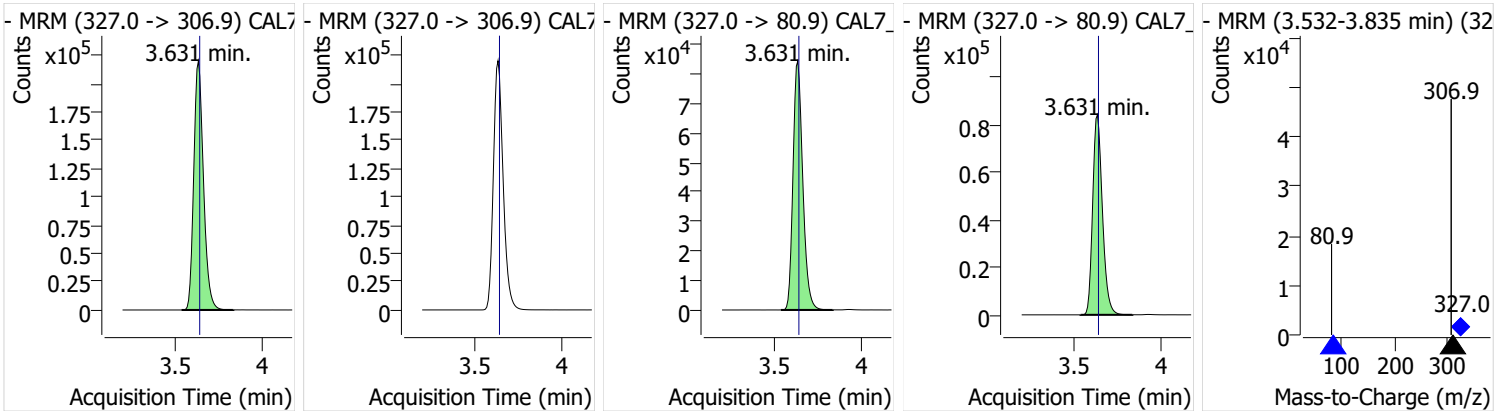
18O2-PFHxS



3:3FTCA



4:2FTS



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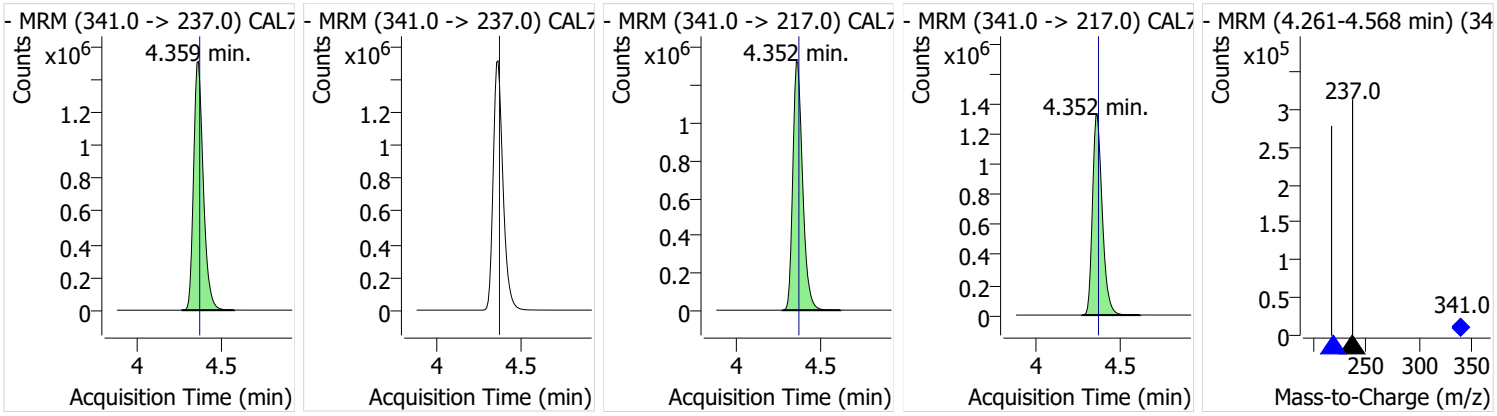
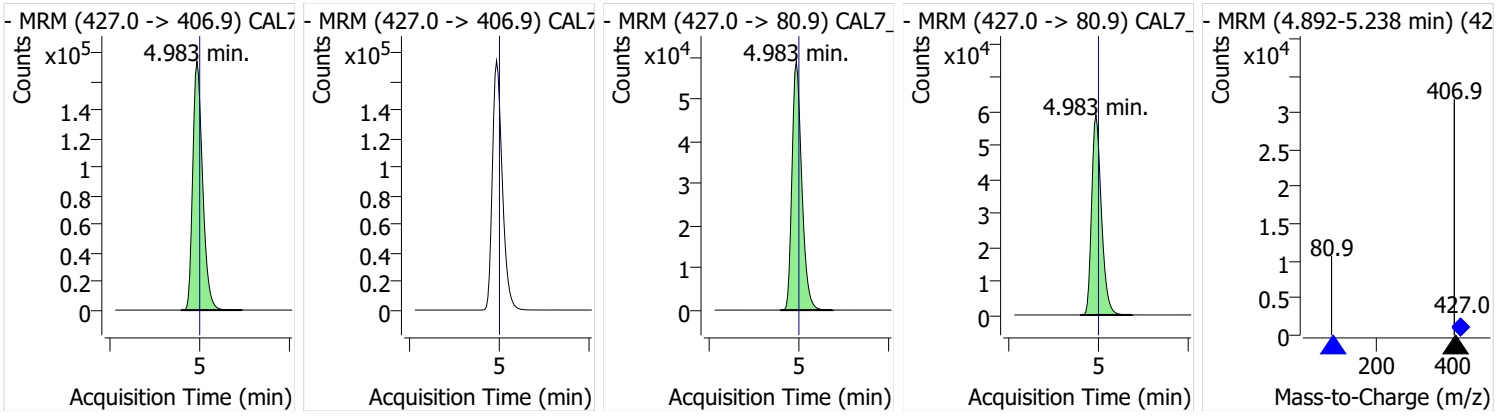
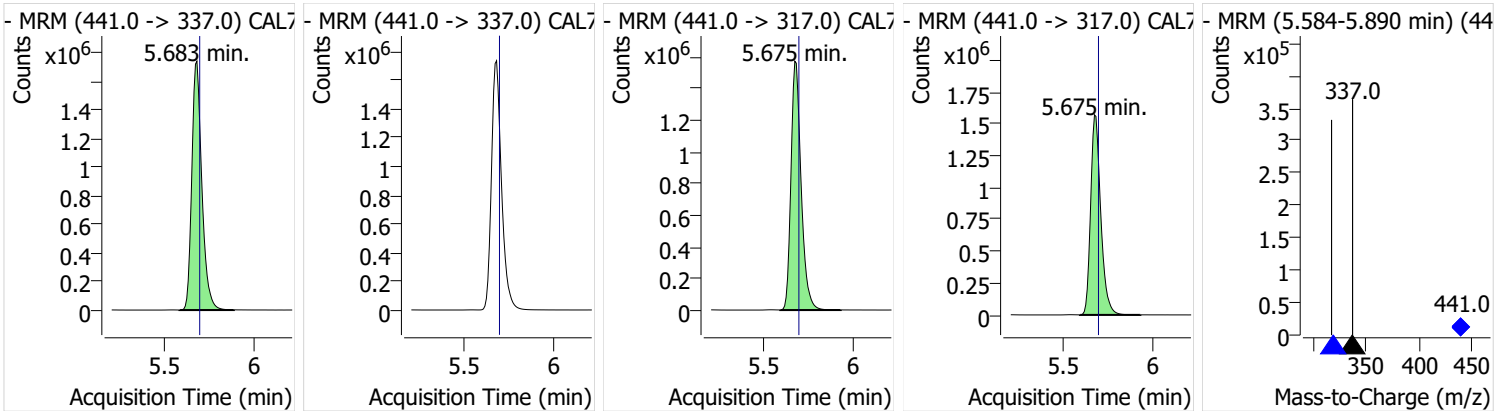


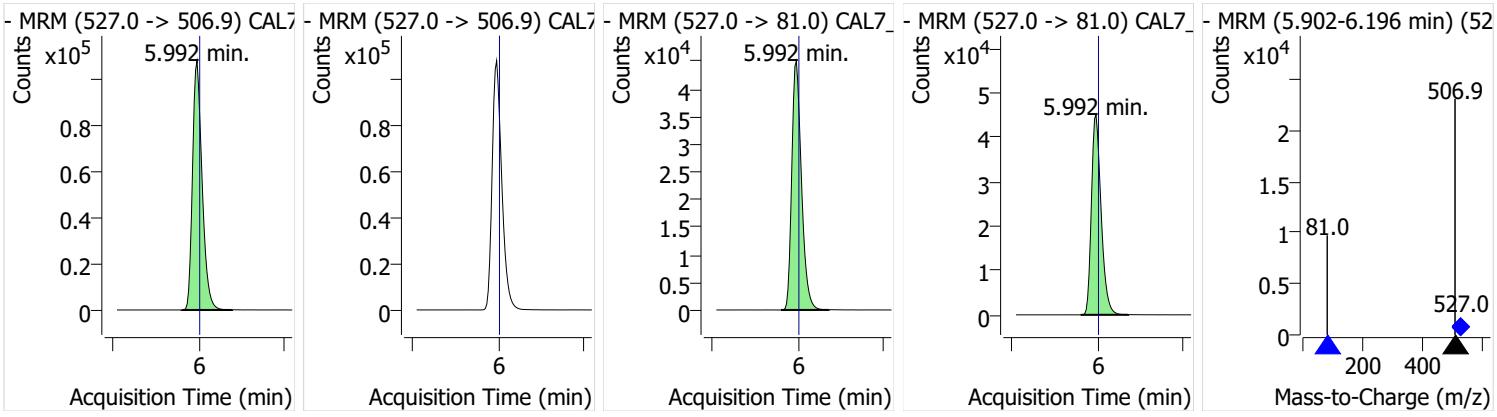
6:2FTS



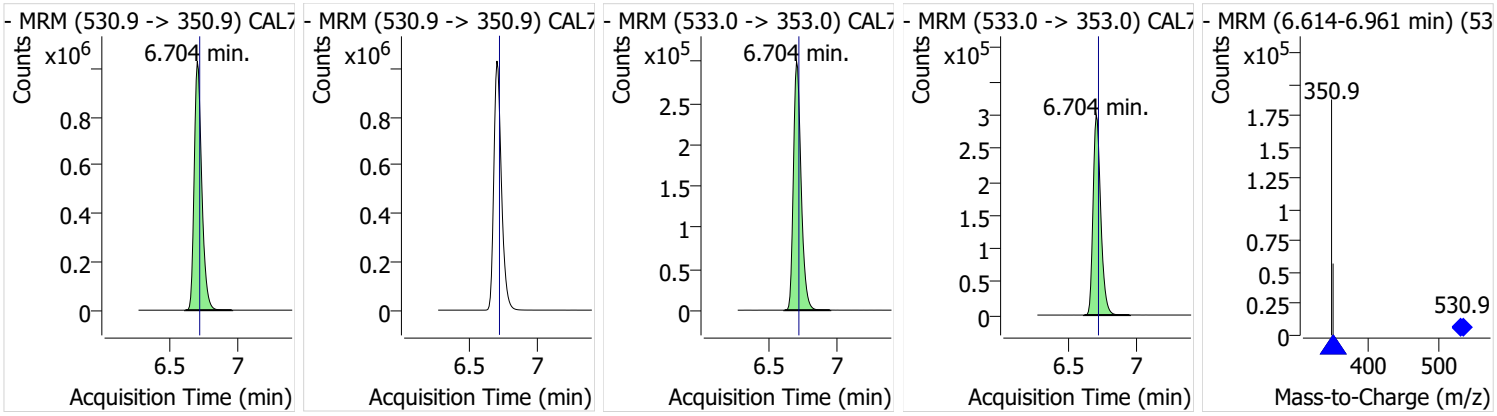
7:3FTCA



8:2FTS



9Cl-PF3ONS



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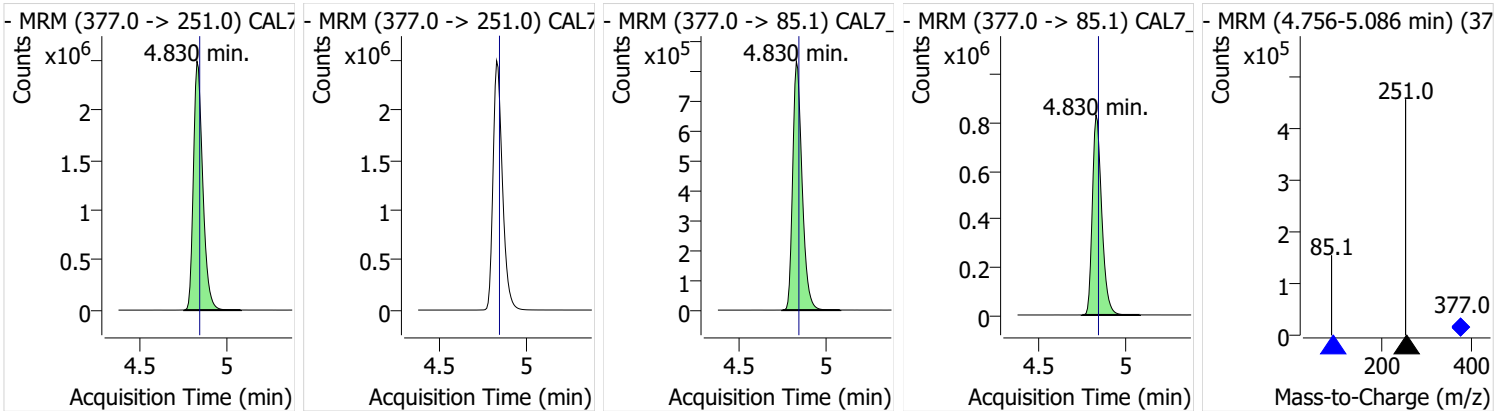
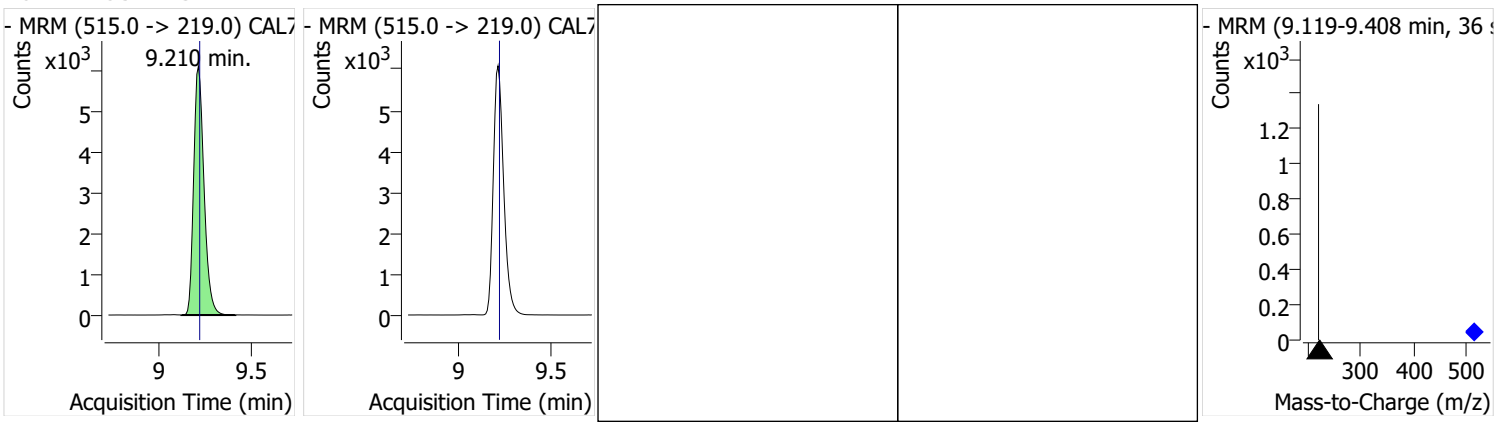
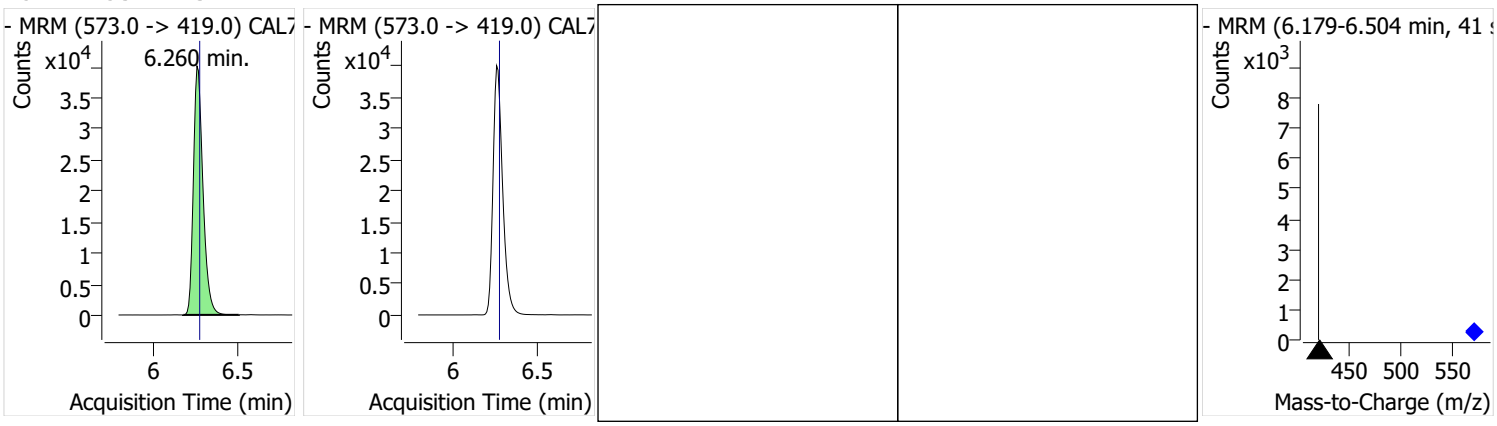


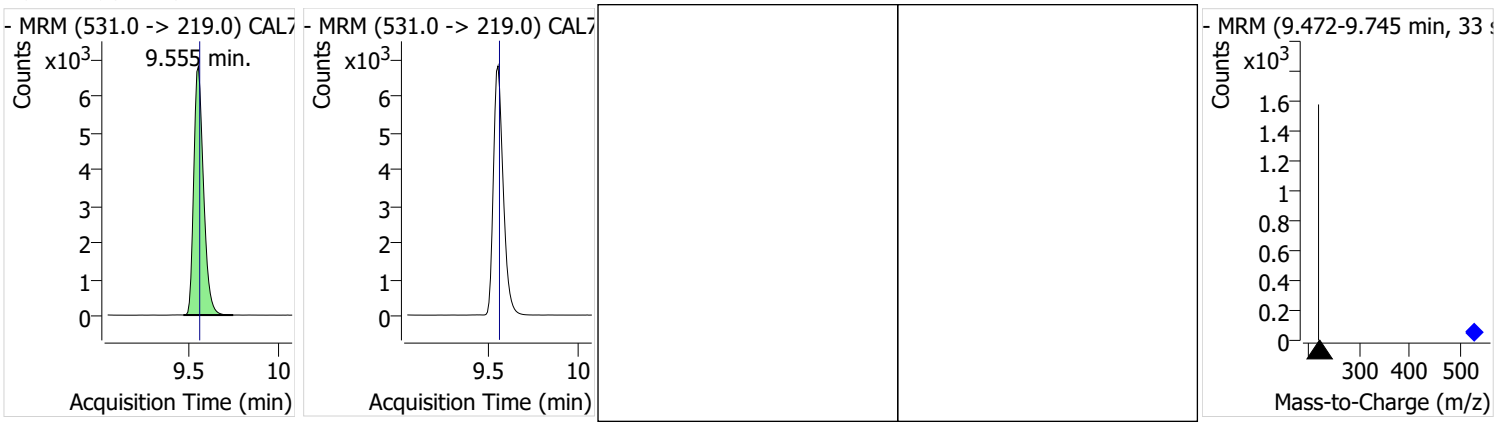
D3-NMeFOSA - ISTD



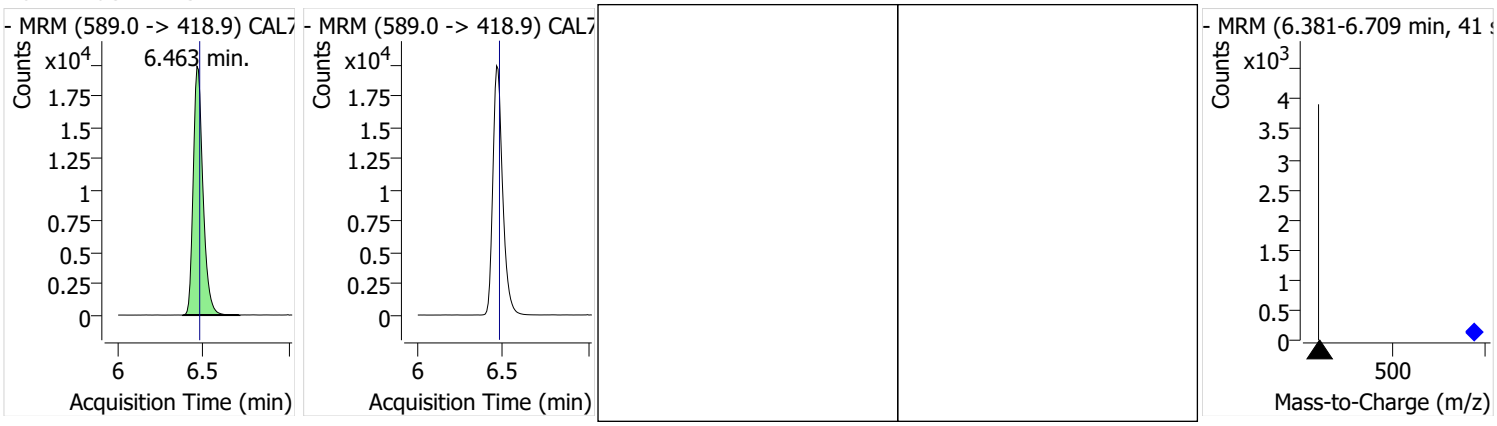
D3-NMeFOSAA - ISTD



D5-NEtFOSA - ISTD

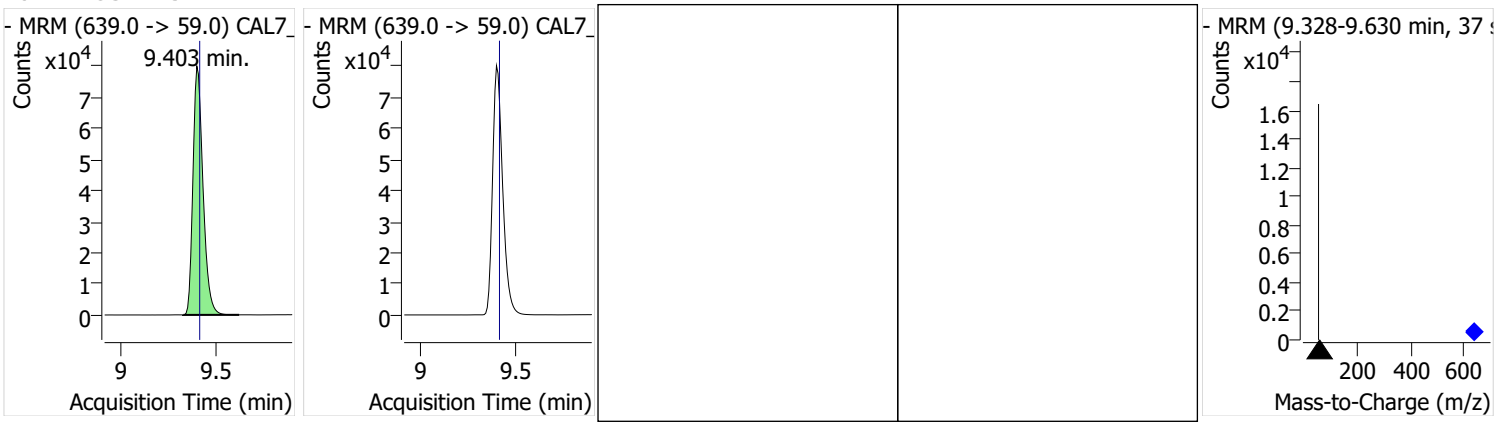


D5-NEtFOSAA - ISTD

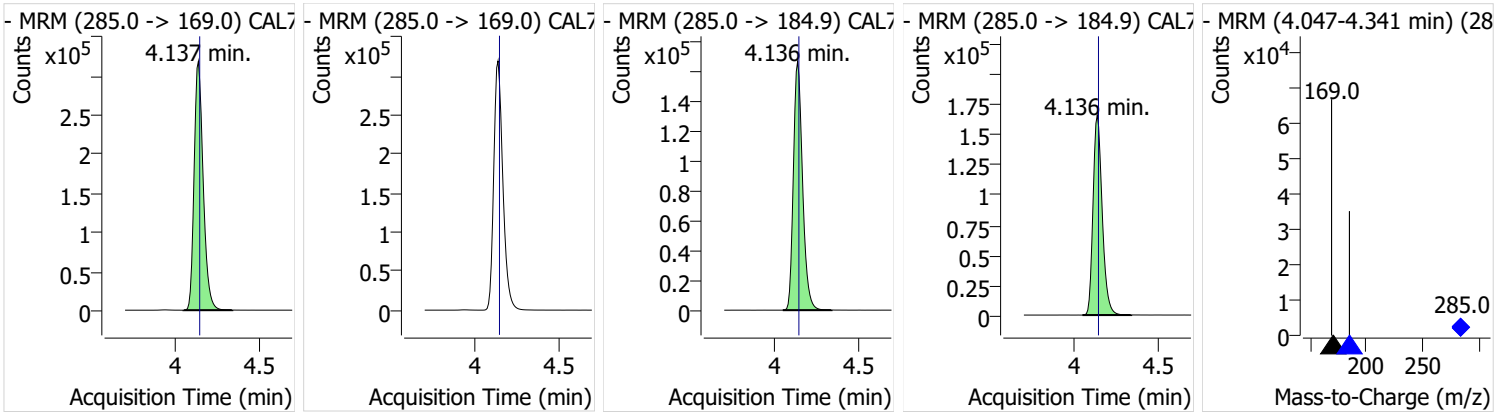


D7-NMeFOSE - ISTD

D9-NEtFOSE - ISTD



HFPO-DA



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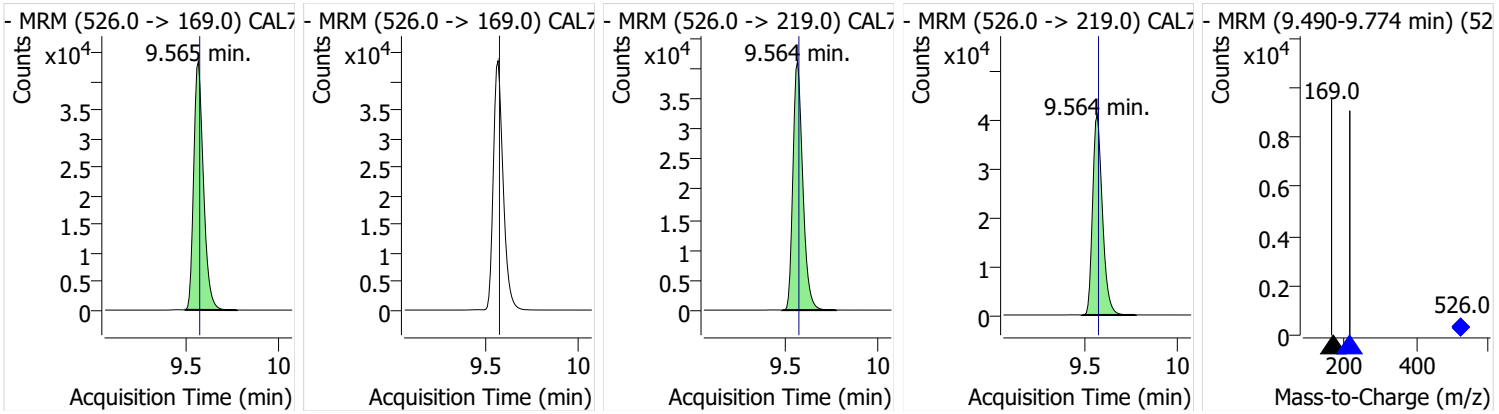

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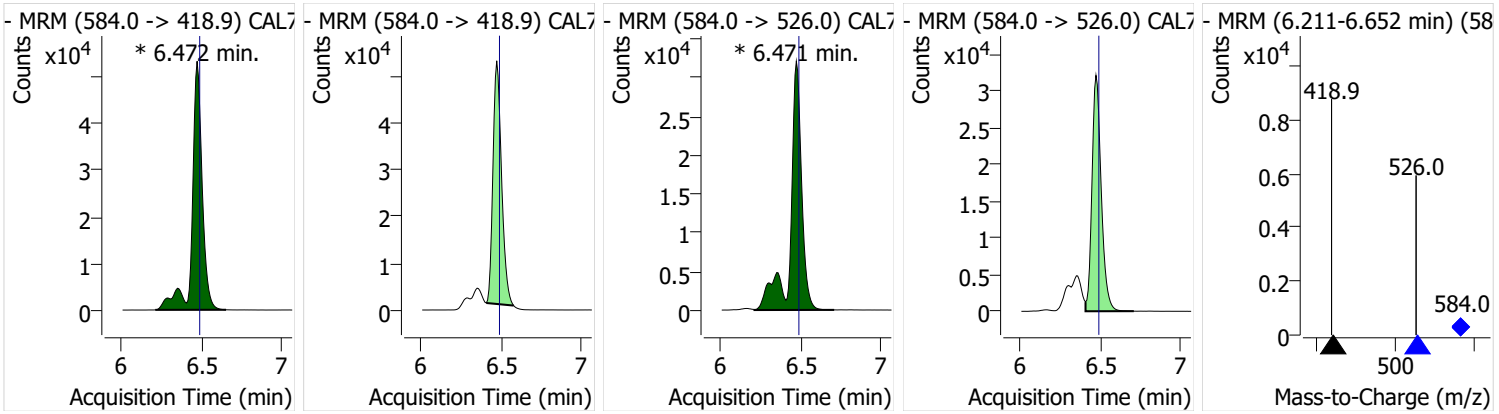

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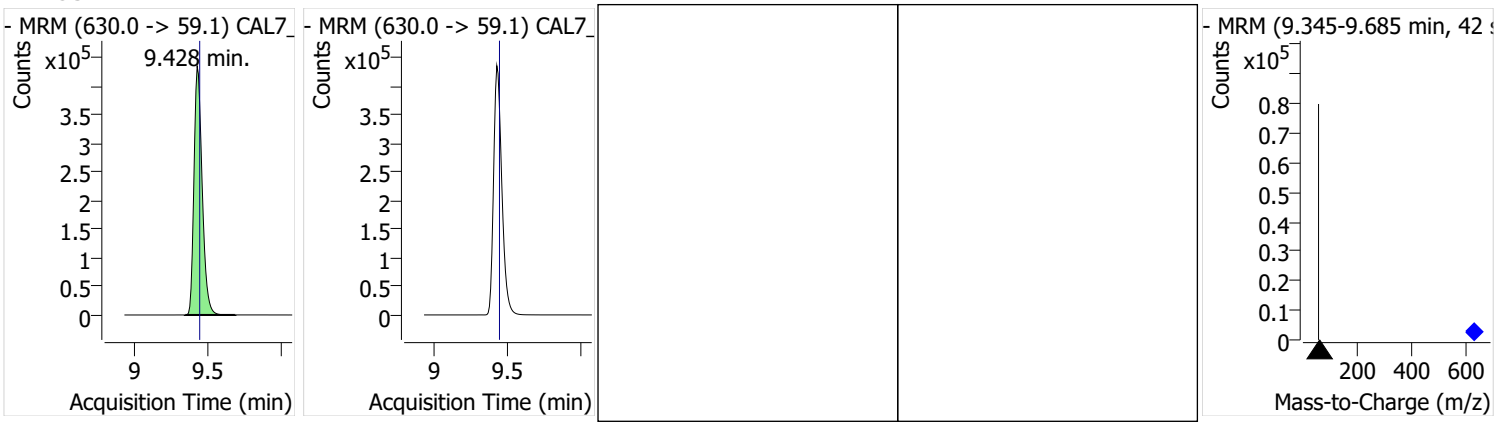

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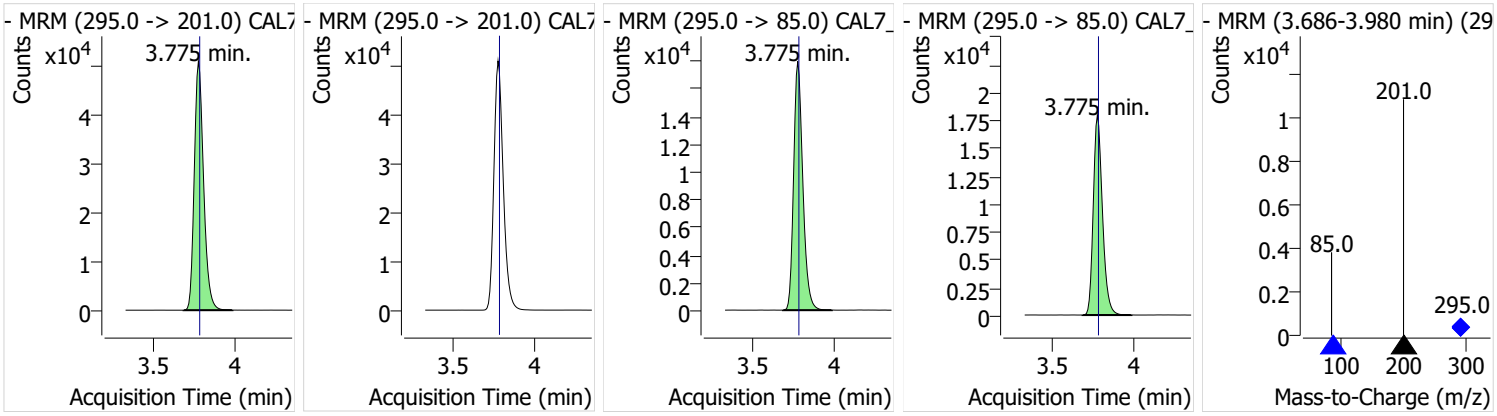

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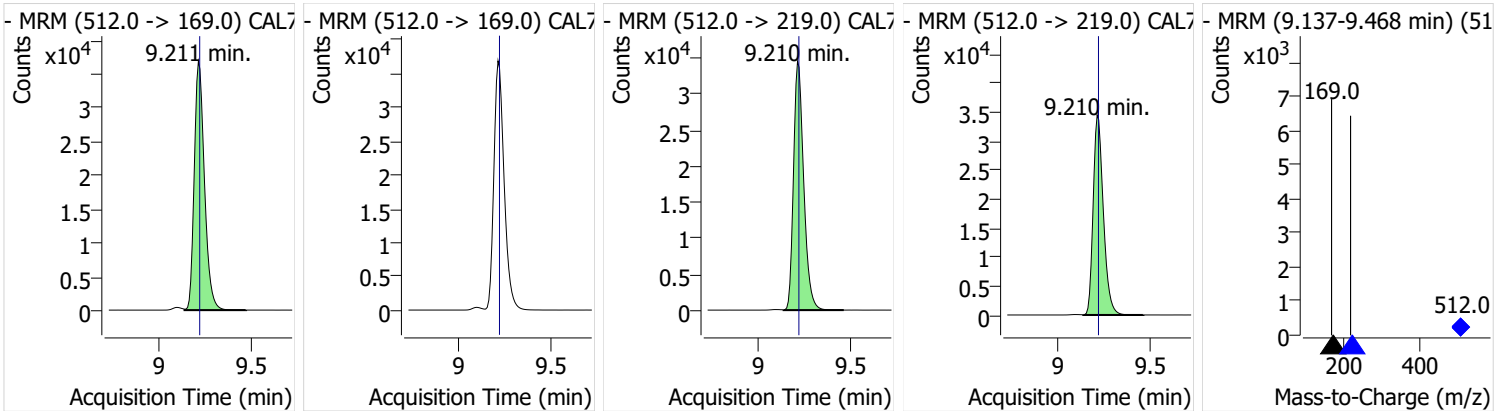

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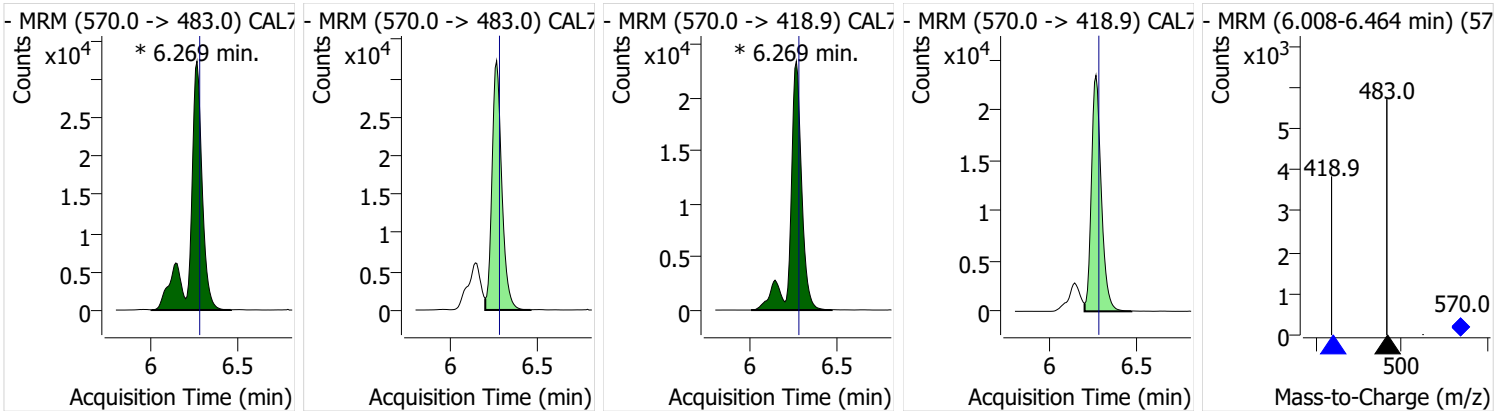

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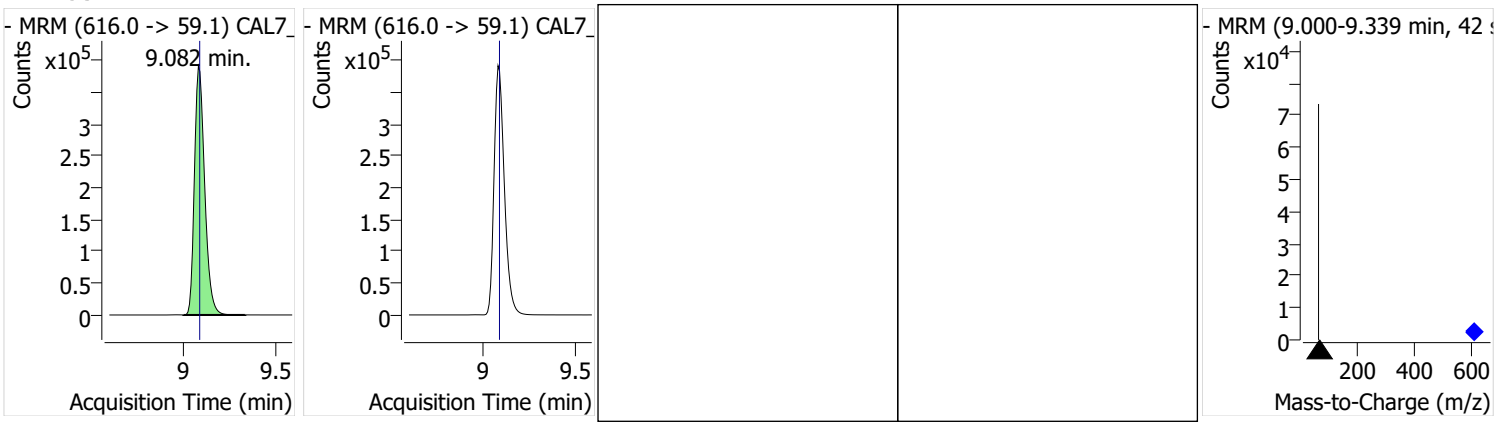

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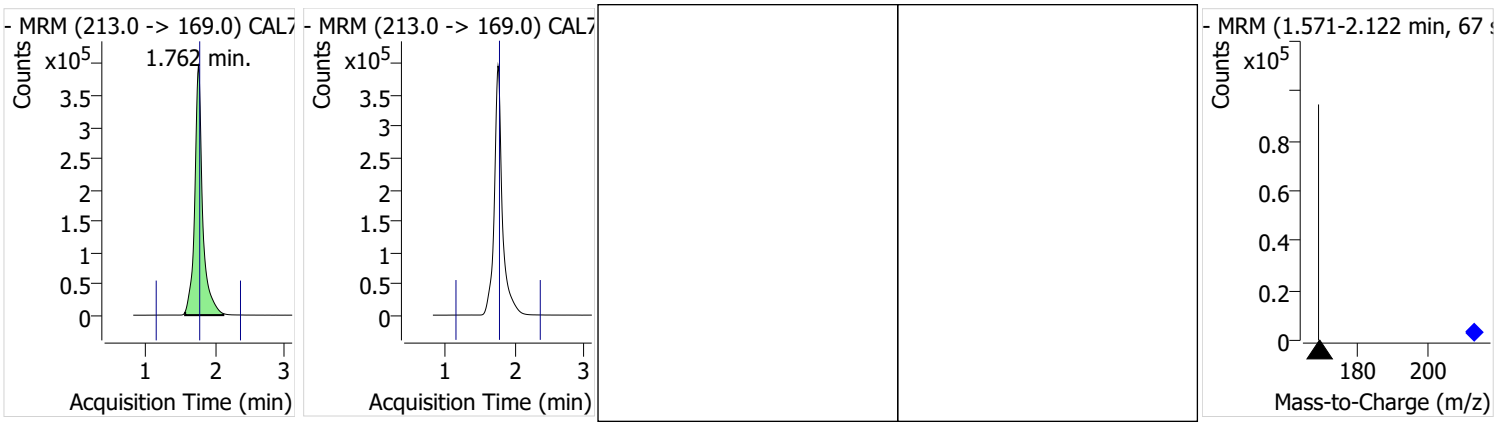

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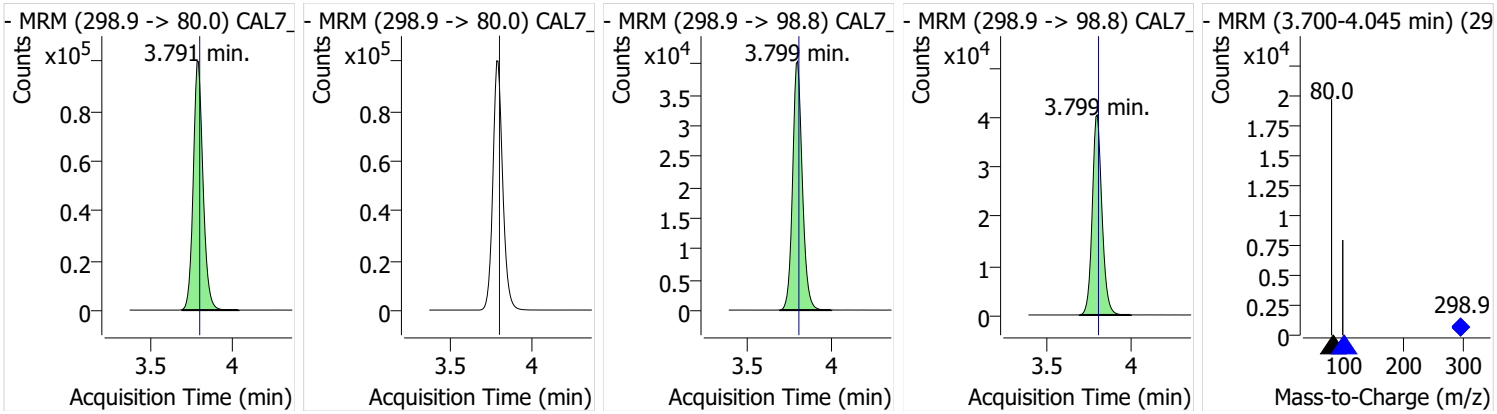

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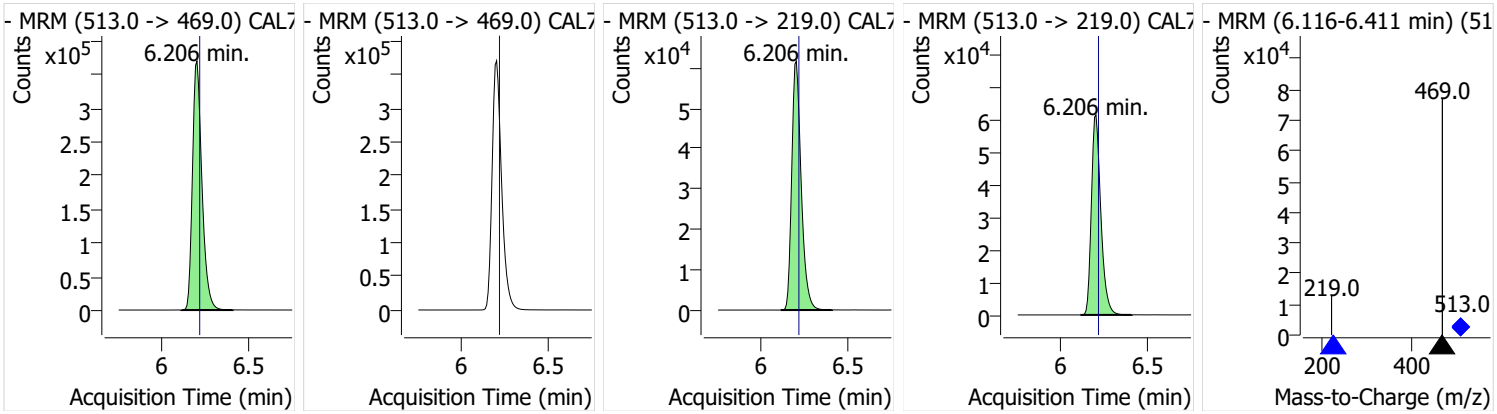

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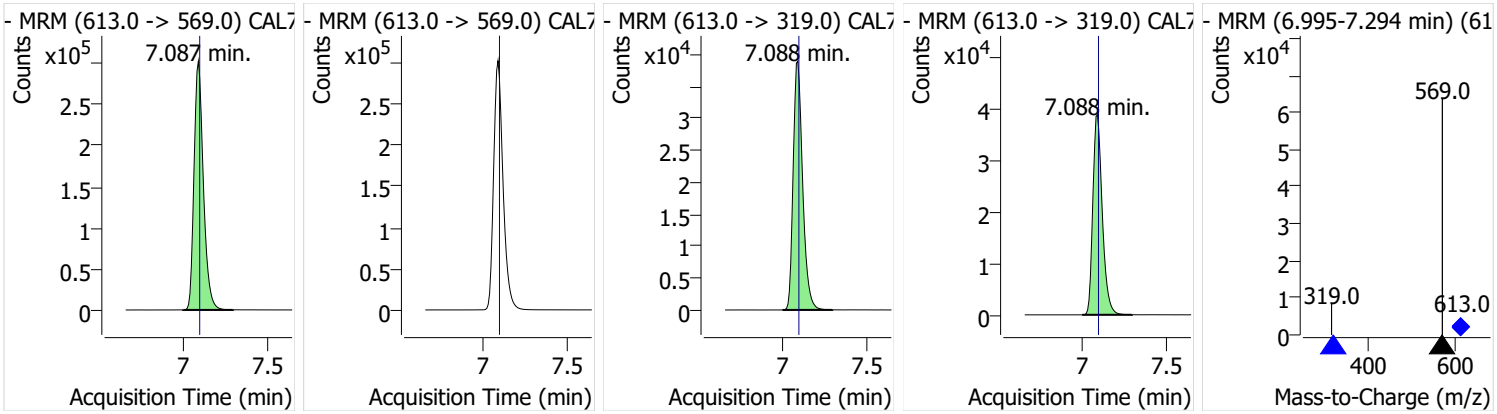

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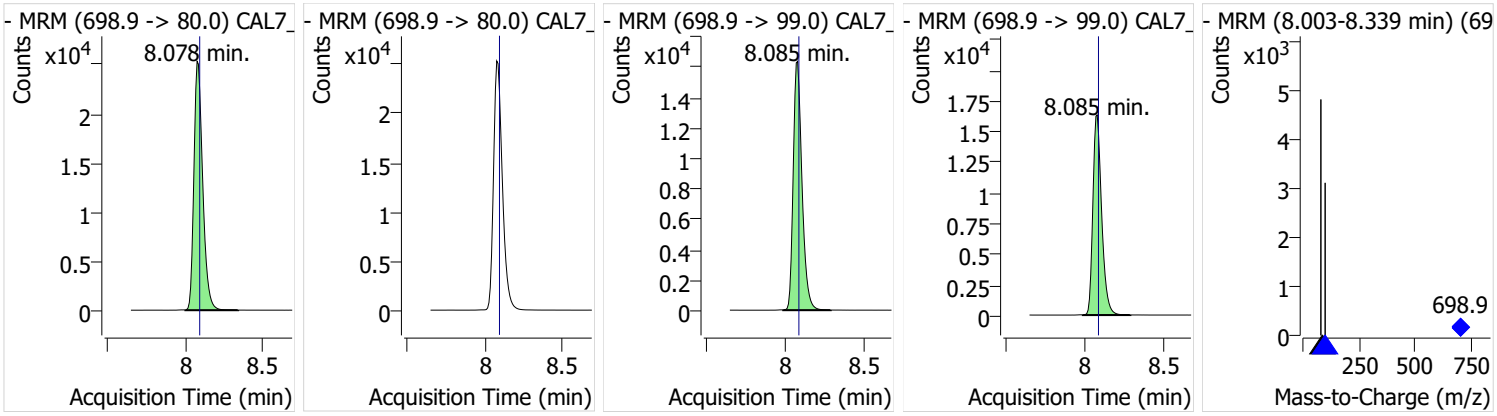

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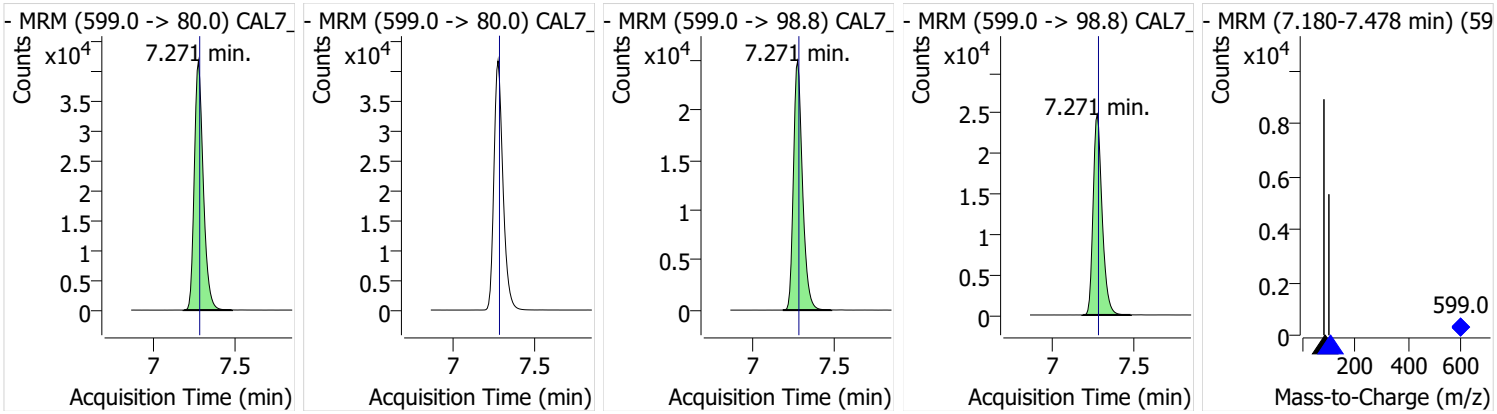

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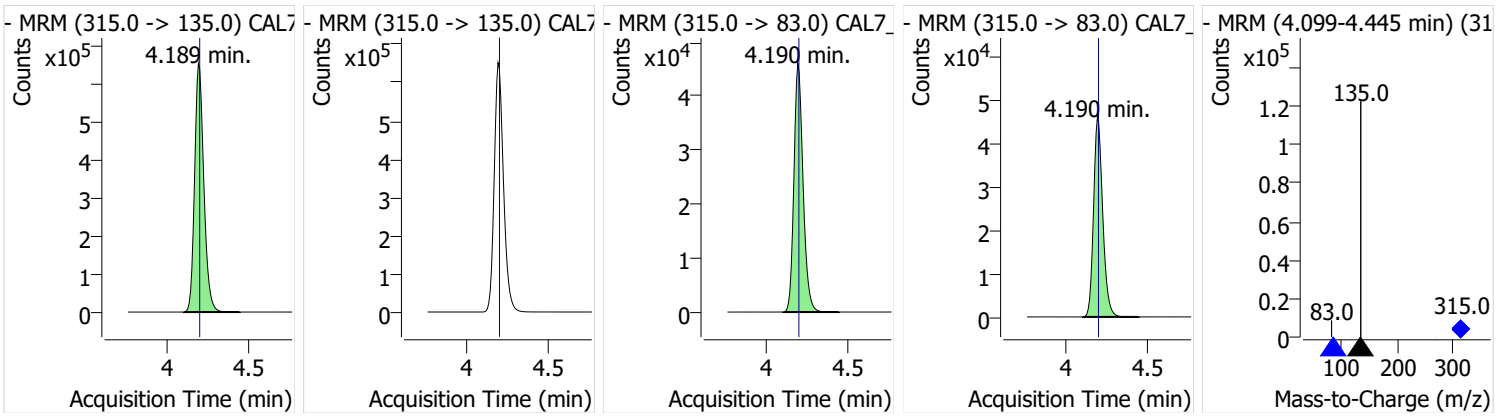
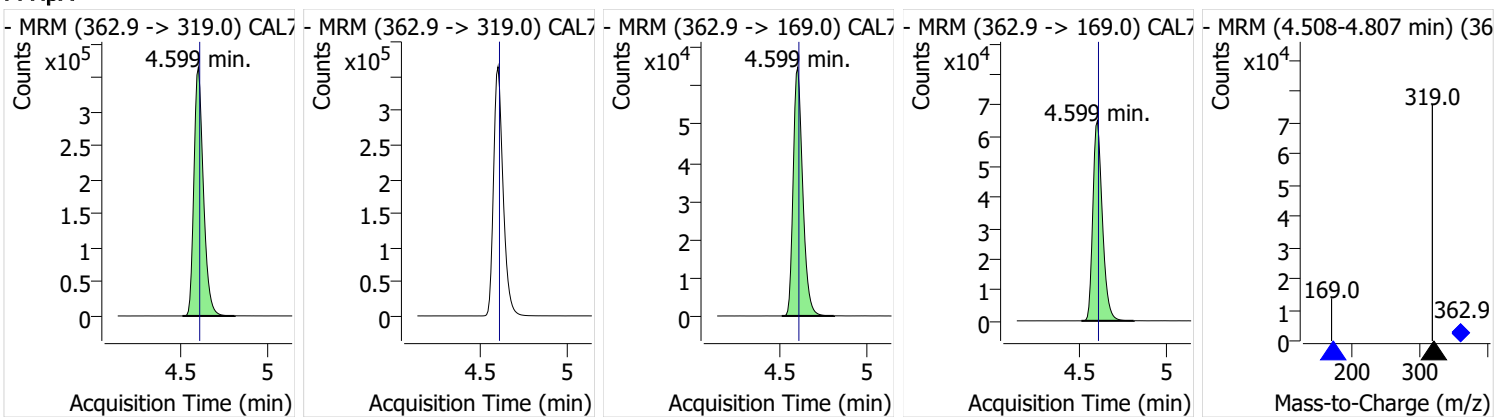


PFHpA



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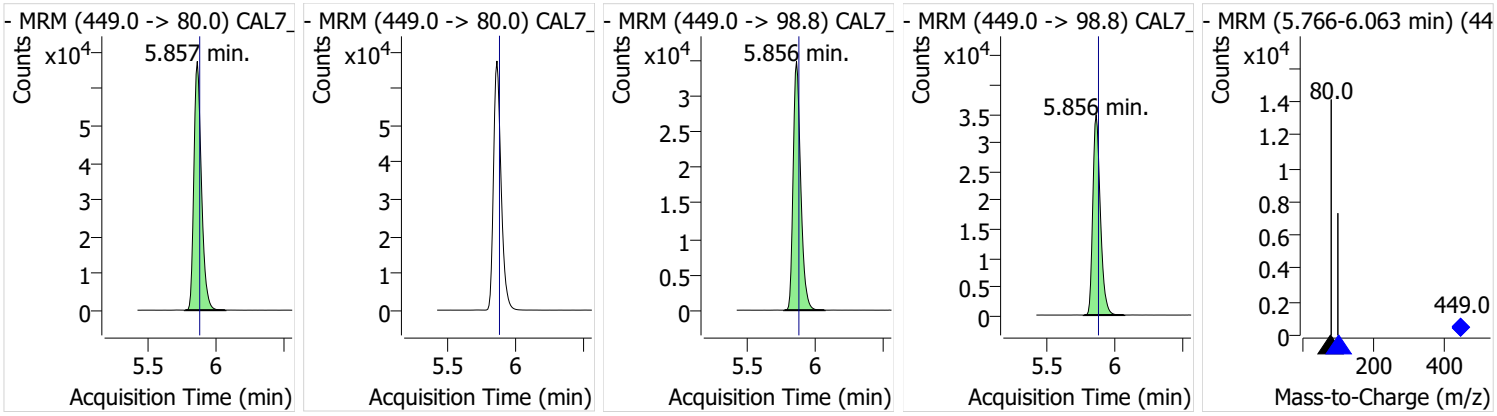

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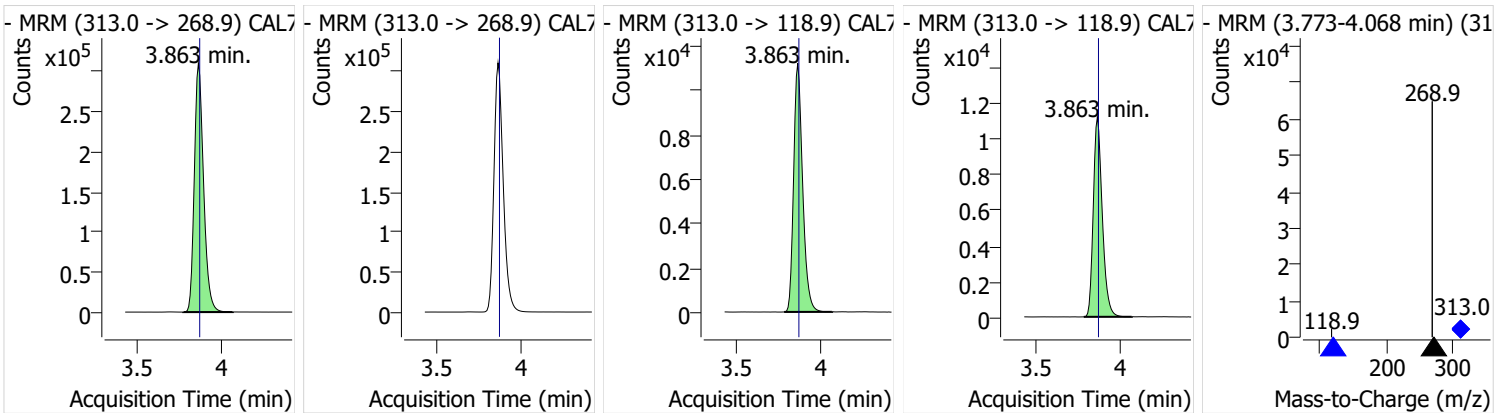

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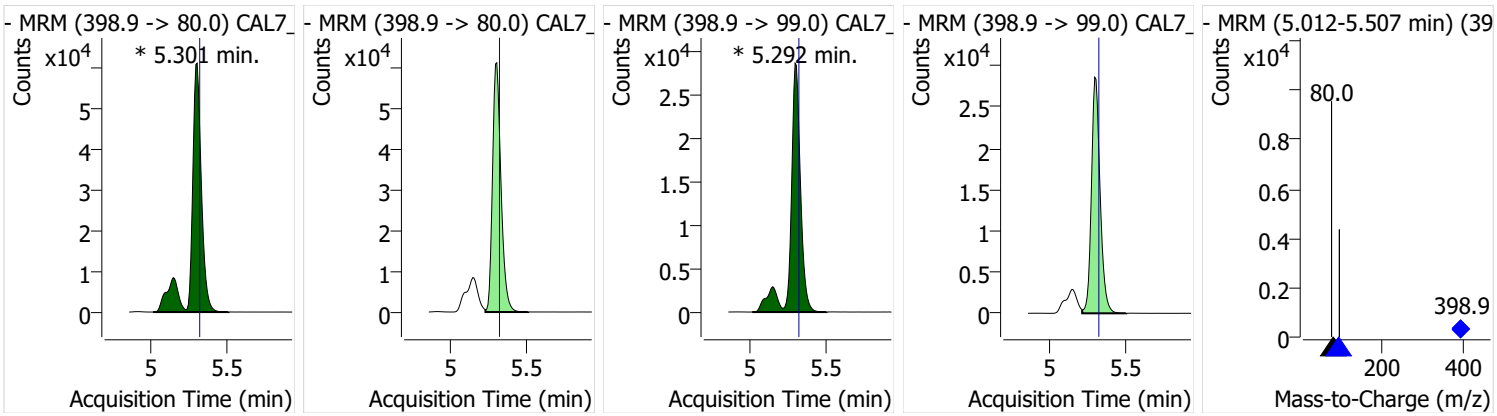

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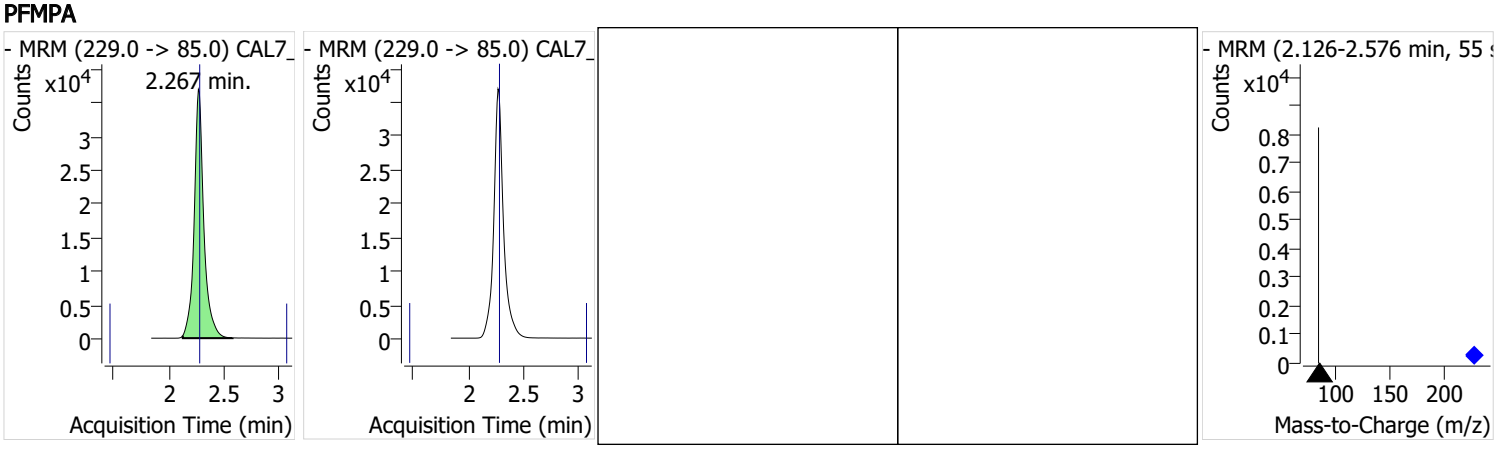

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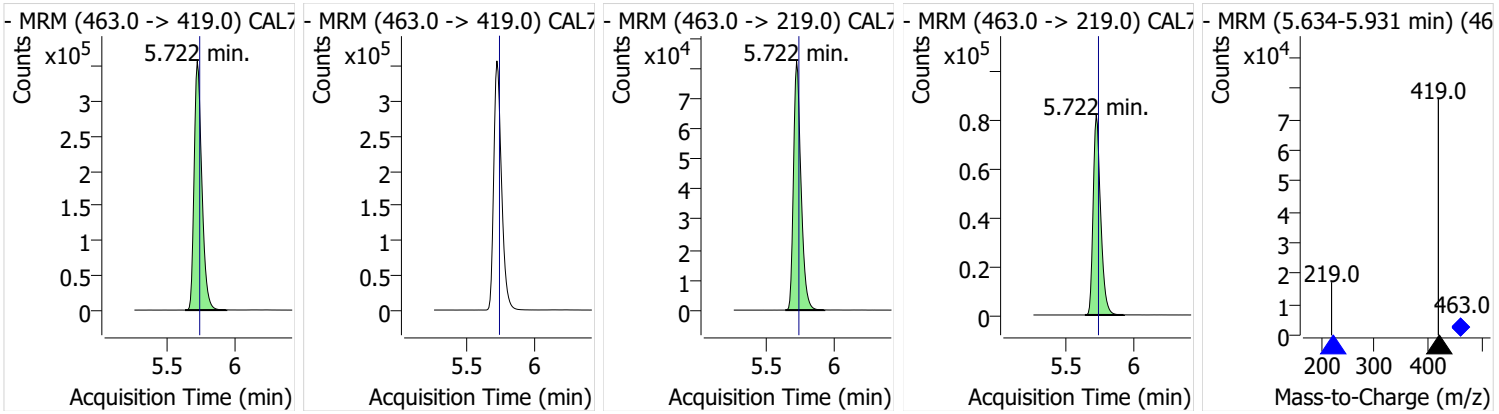

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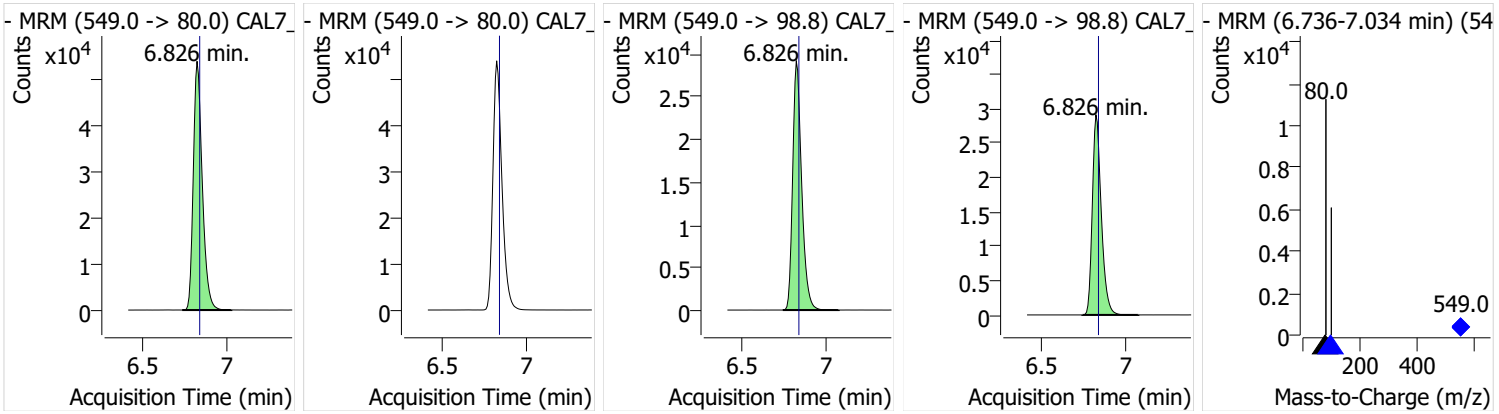

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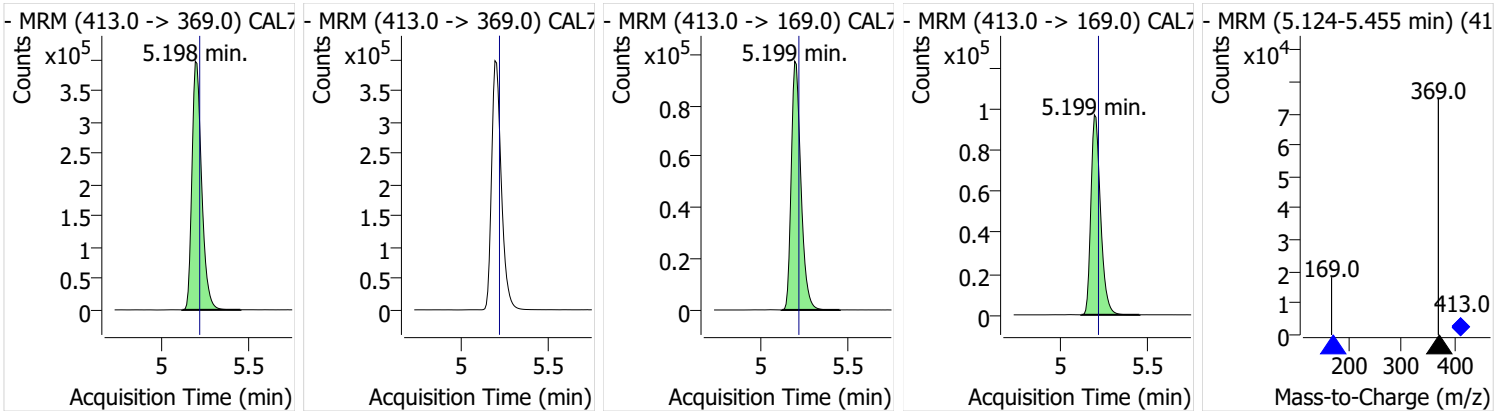

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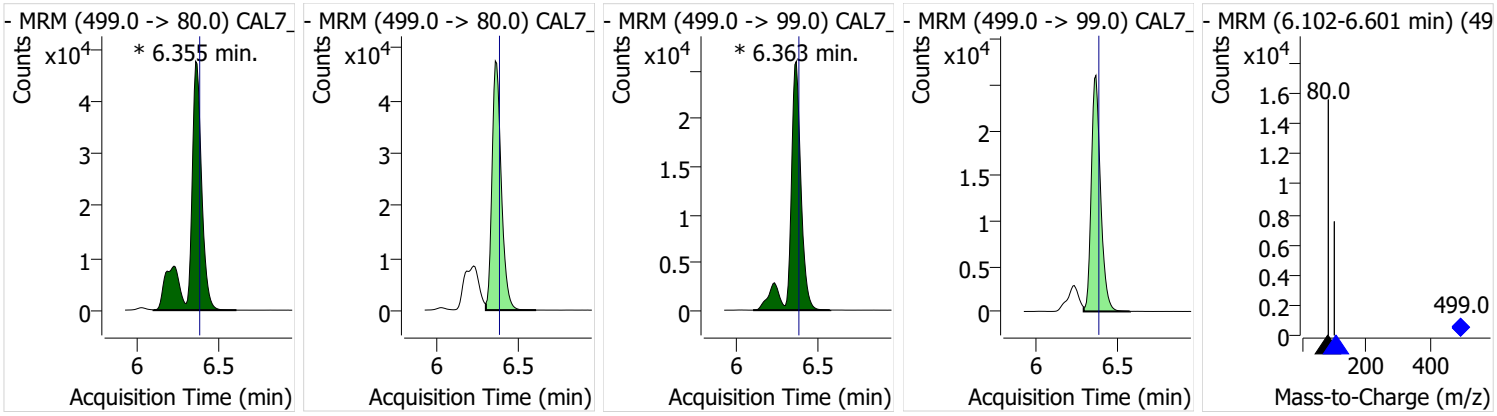

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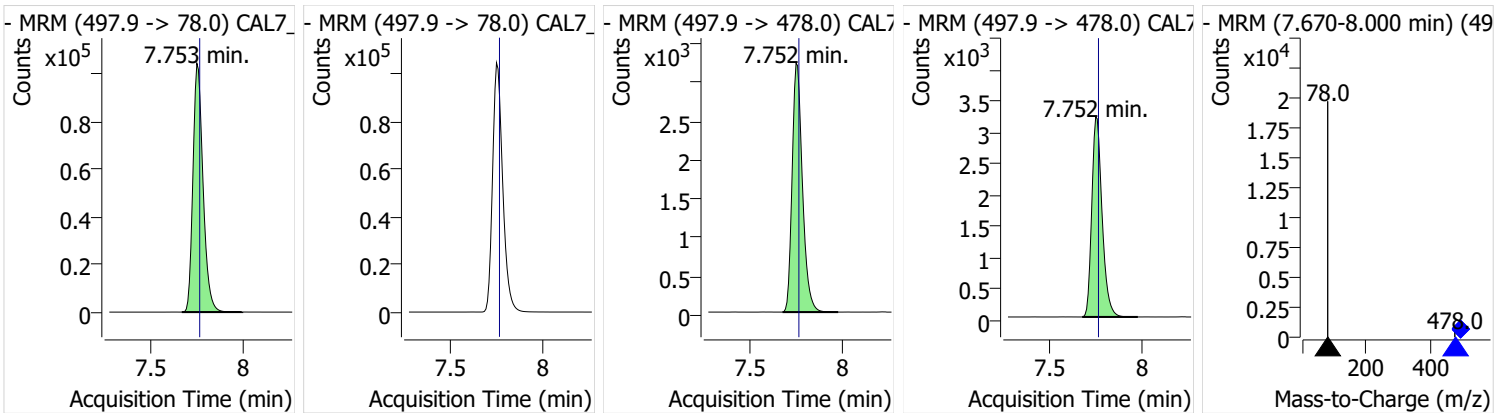

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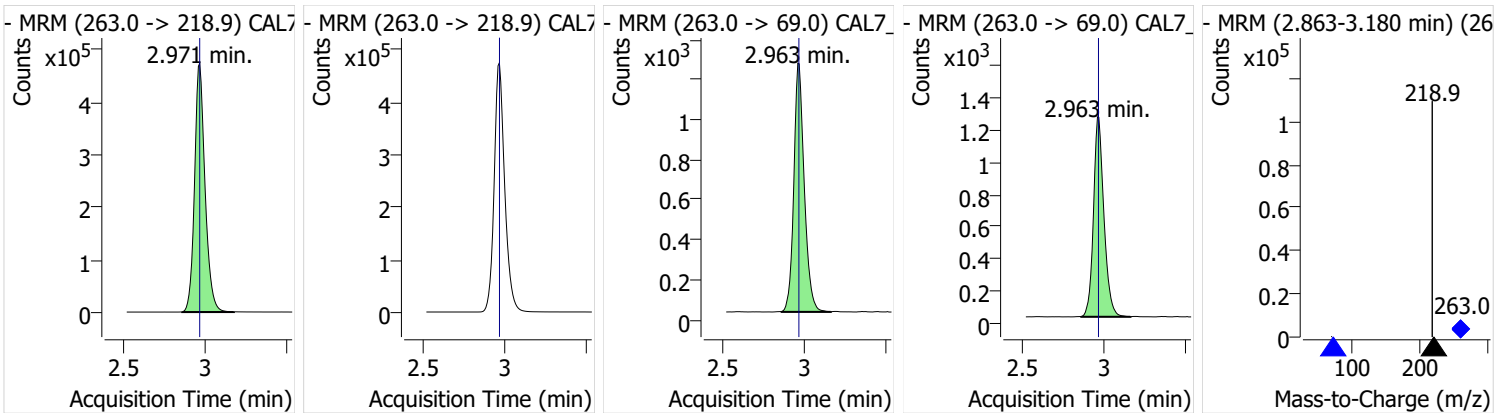

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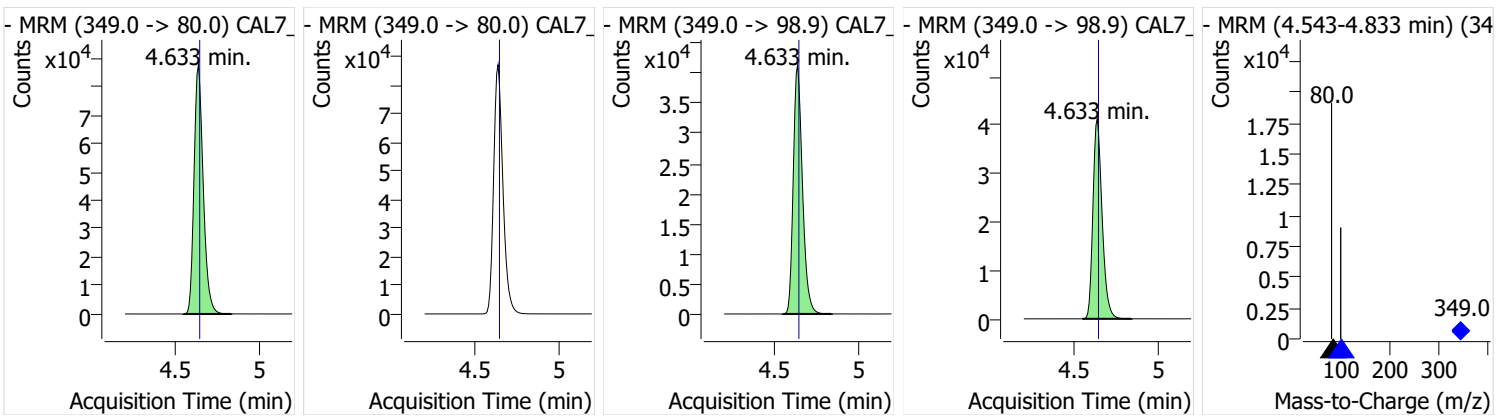

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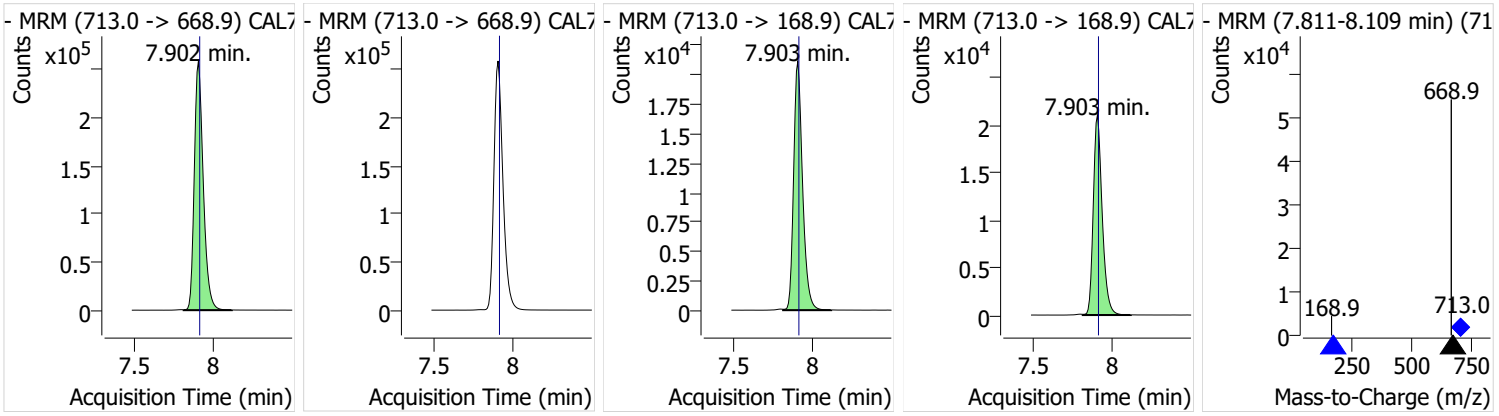
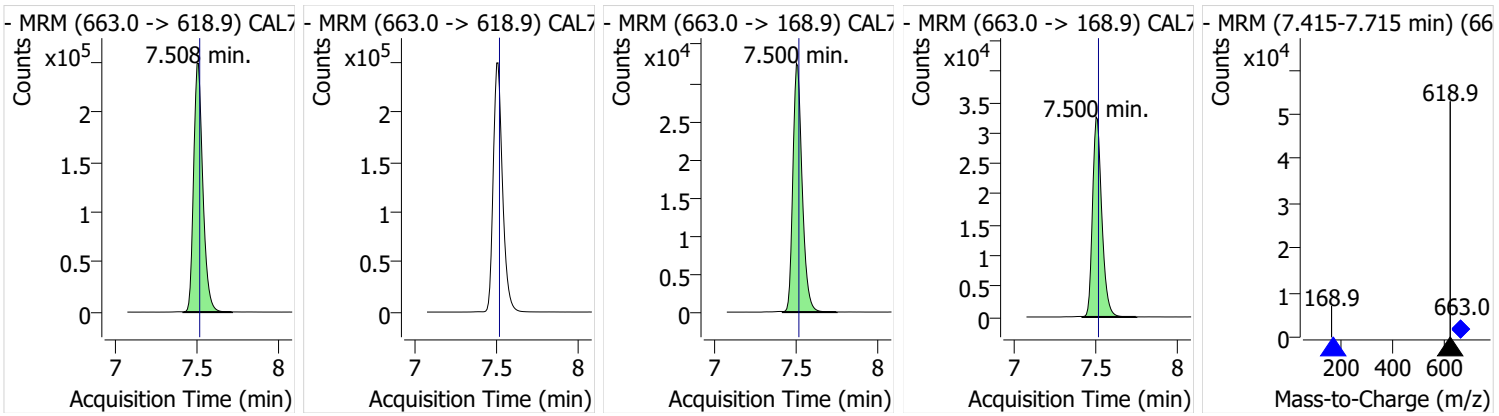


PFTrDA



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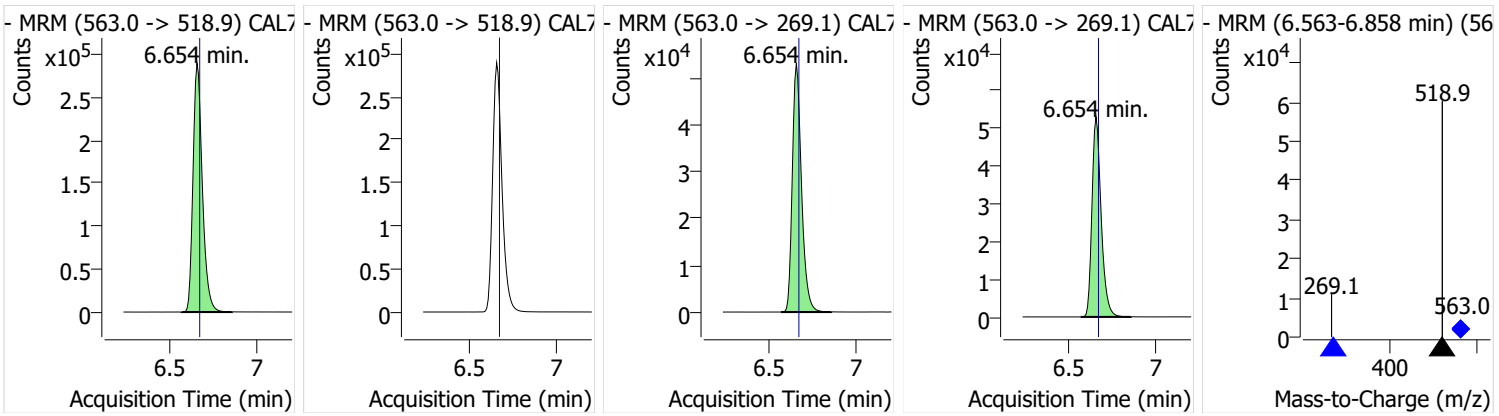

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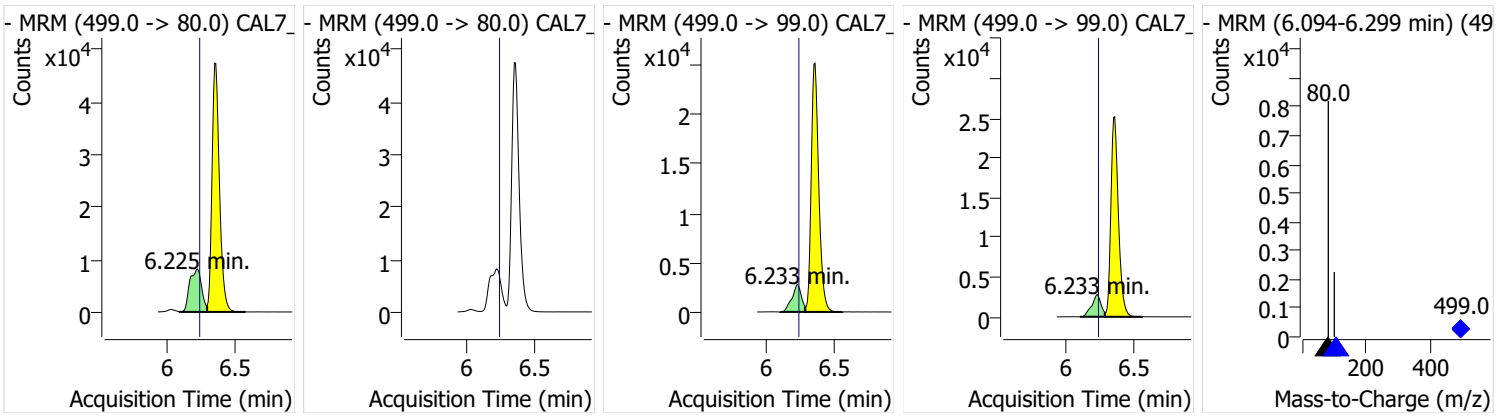
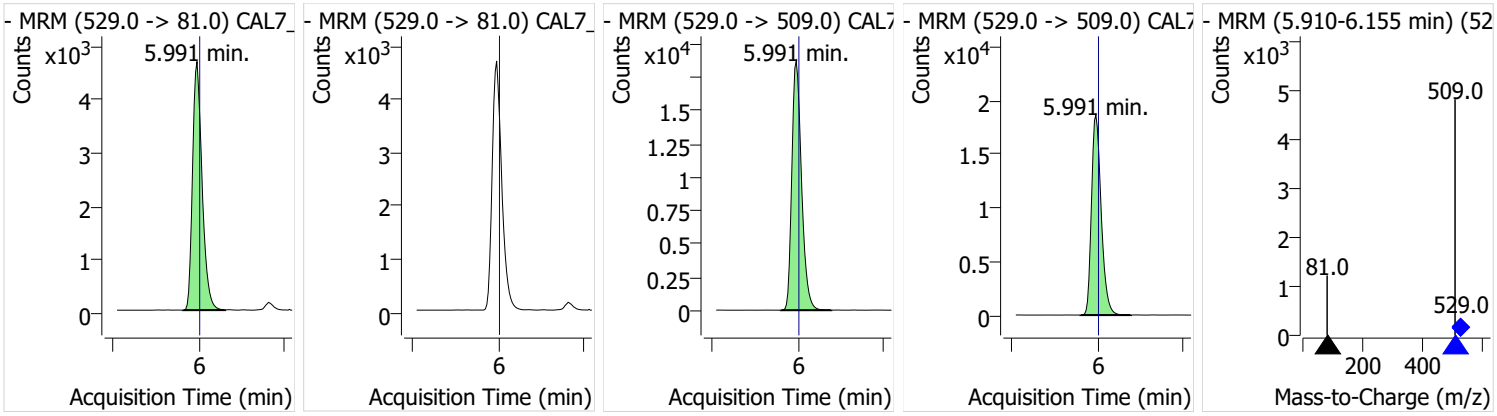
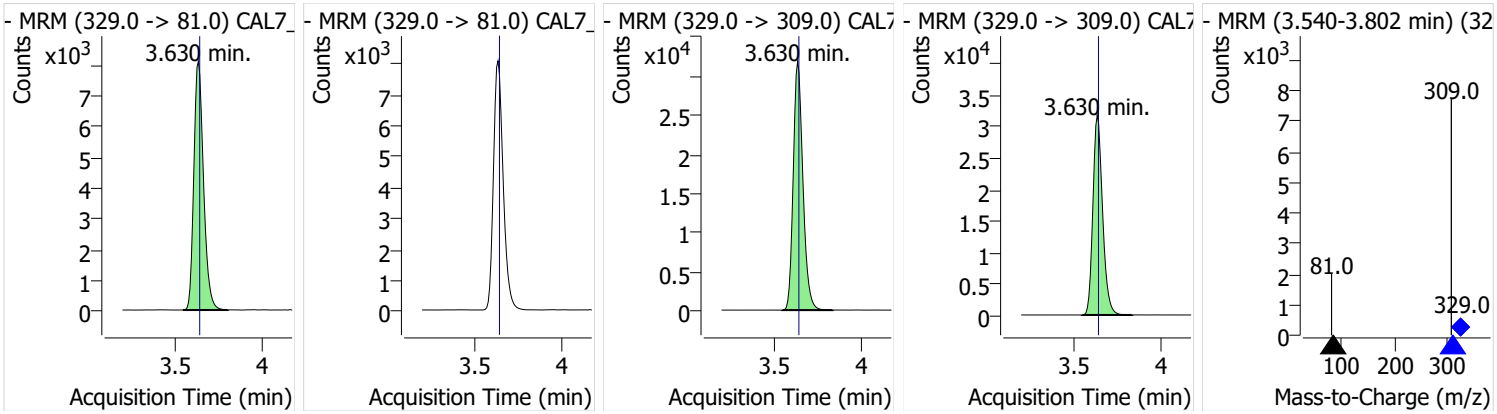


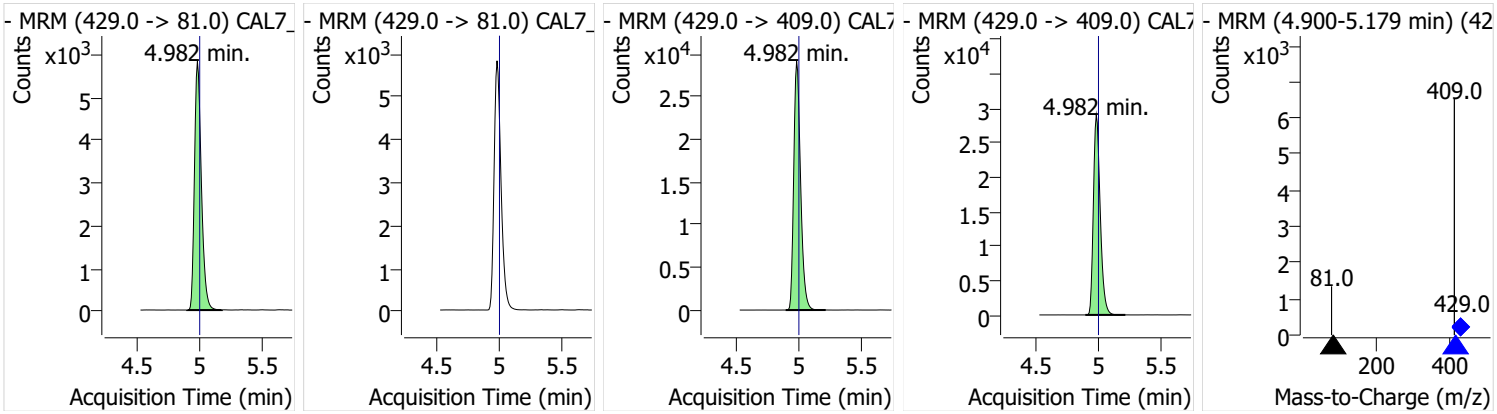
13C2-8:2FTS



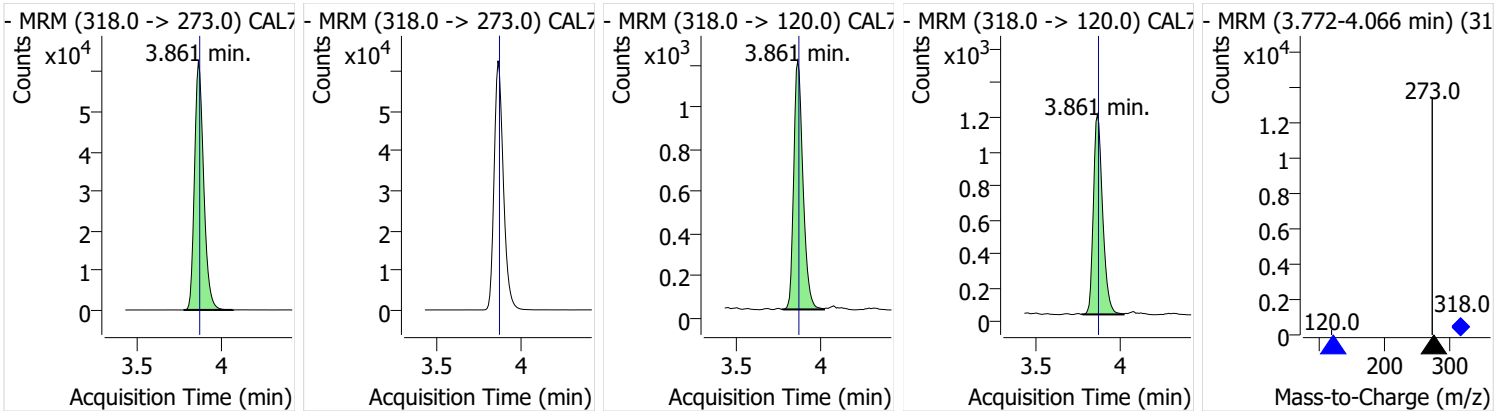
13C2-4:2FTS



13C2-6:2FTS



13C5-PFHxA



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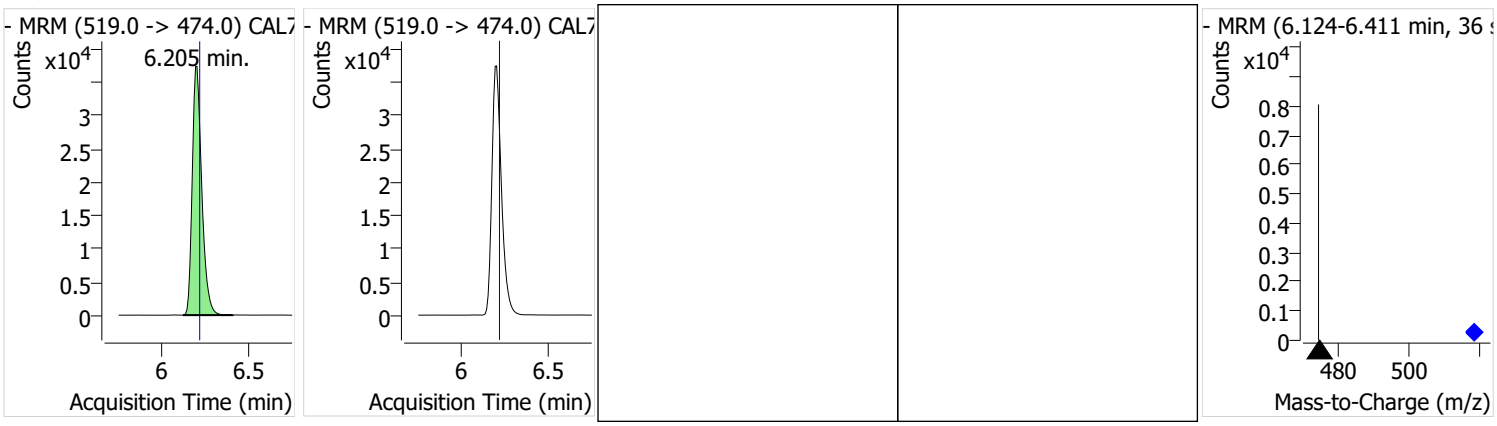
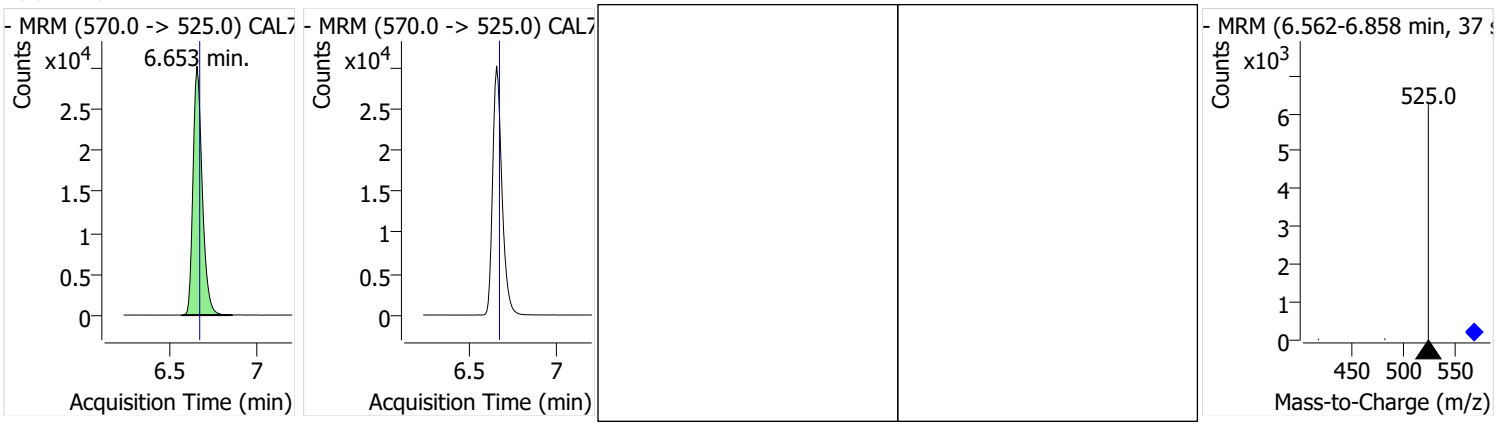
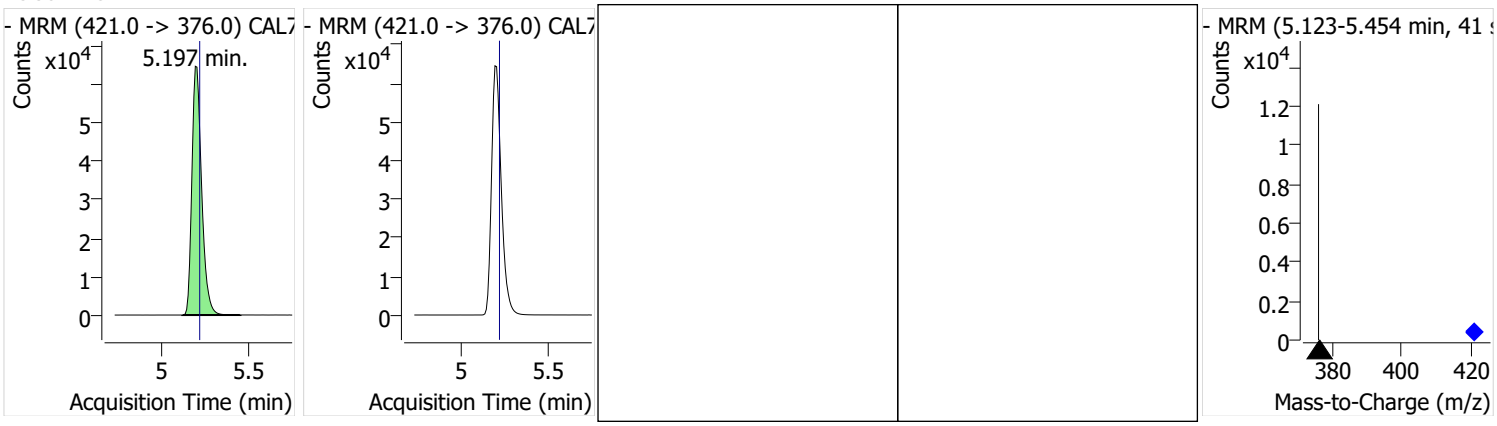


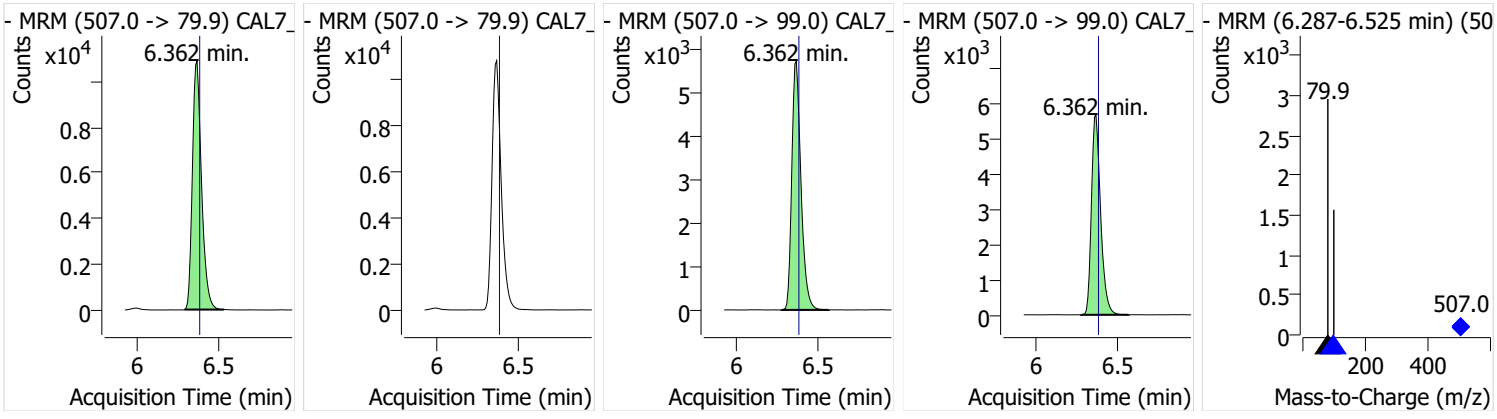
13C7-PFUnA



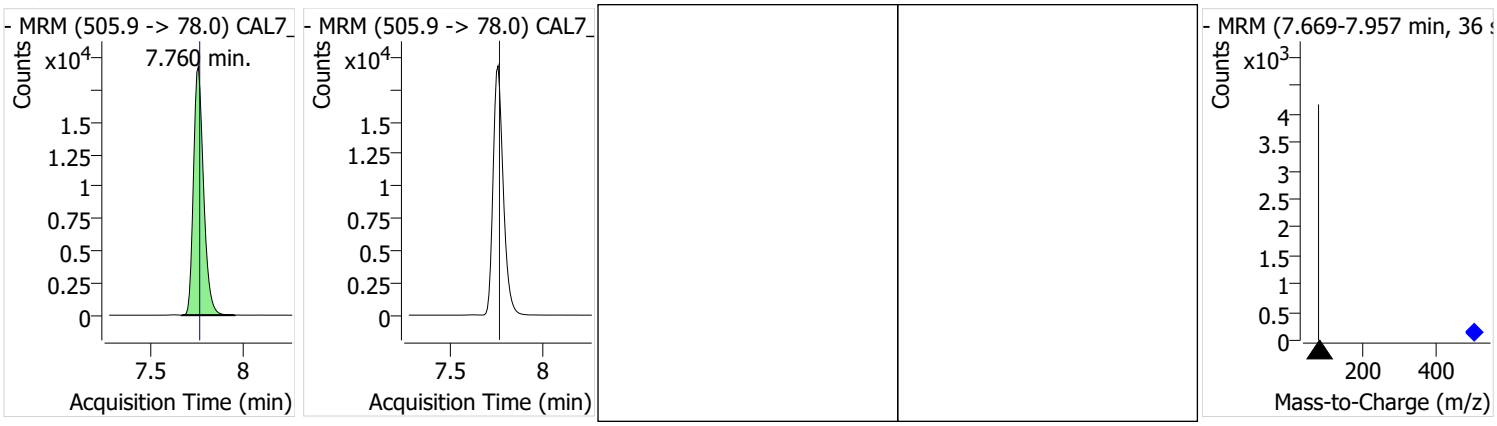
13C8-PFOA



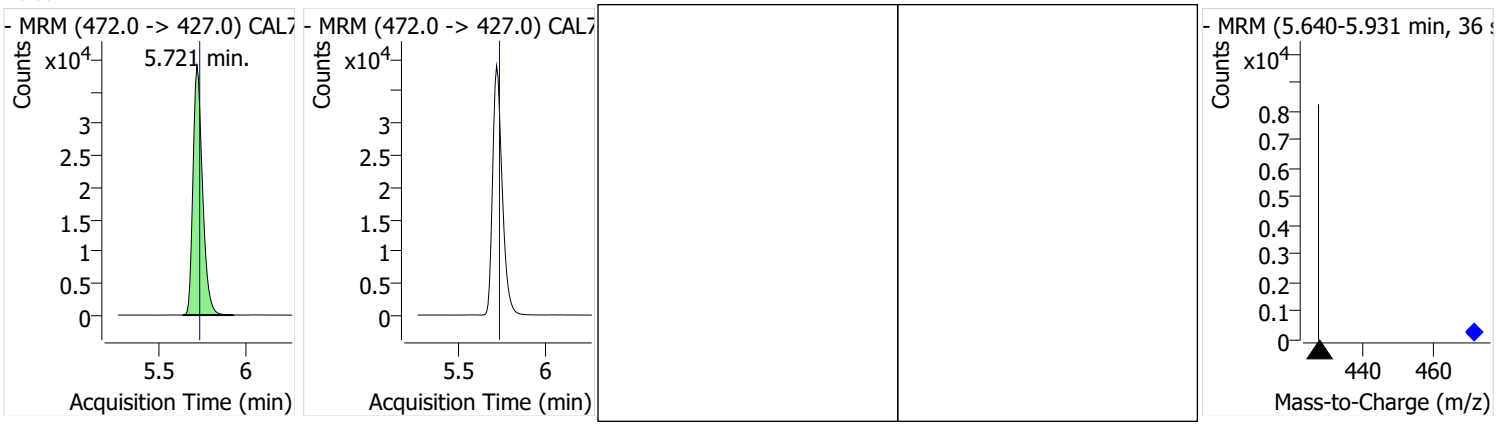
13C8-PFOS



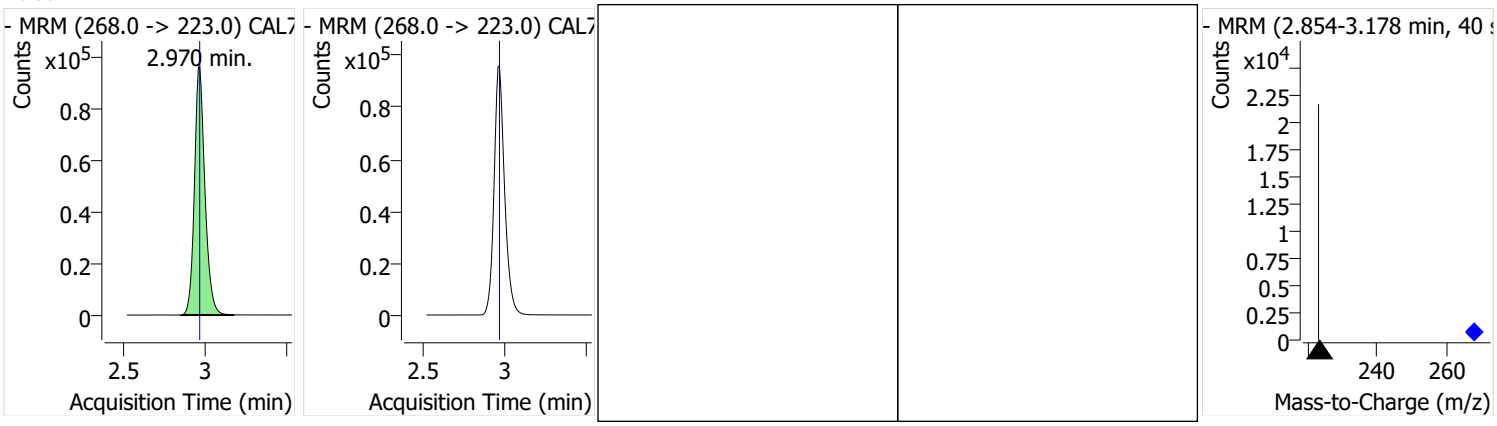
13C8-PFOSA



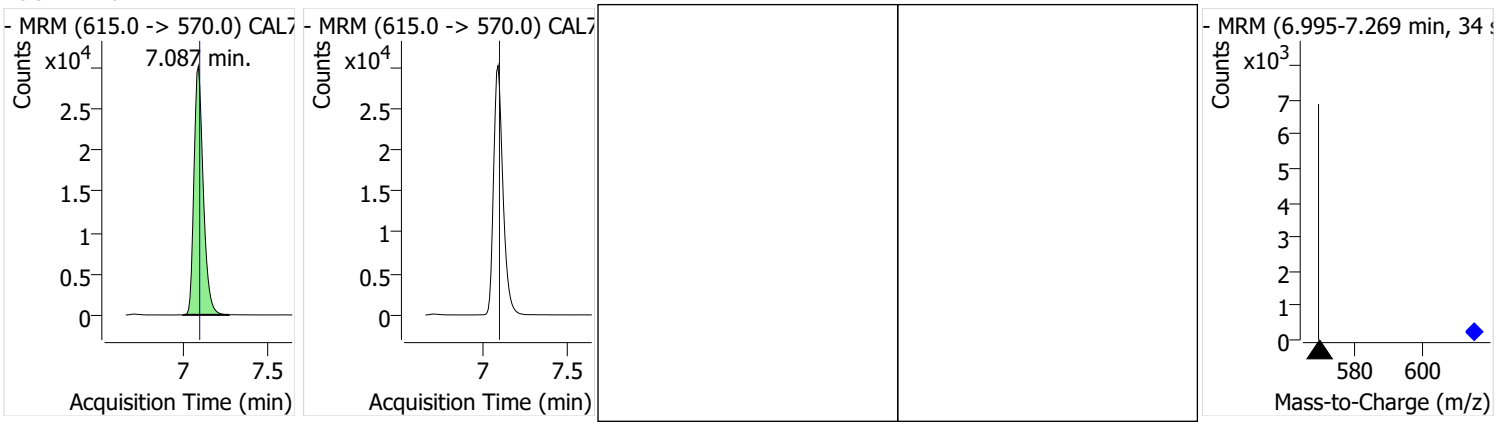
13C9-PFNA



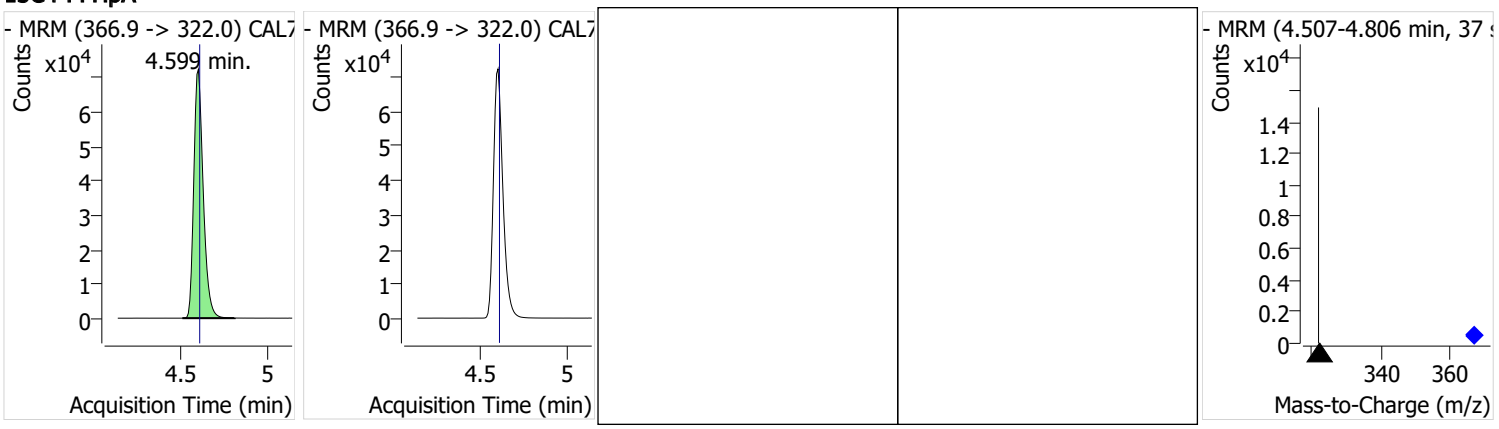
13C5-PFPeA



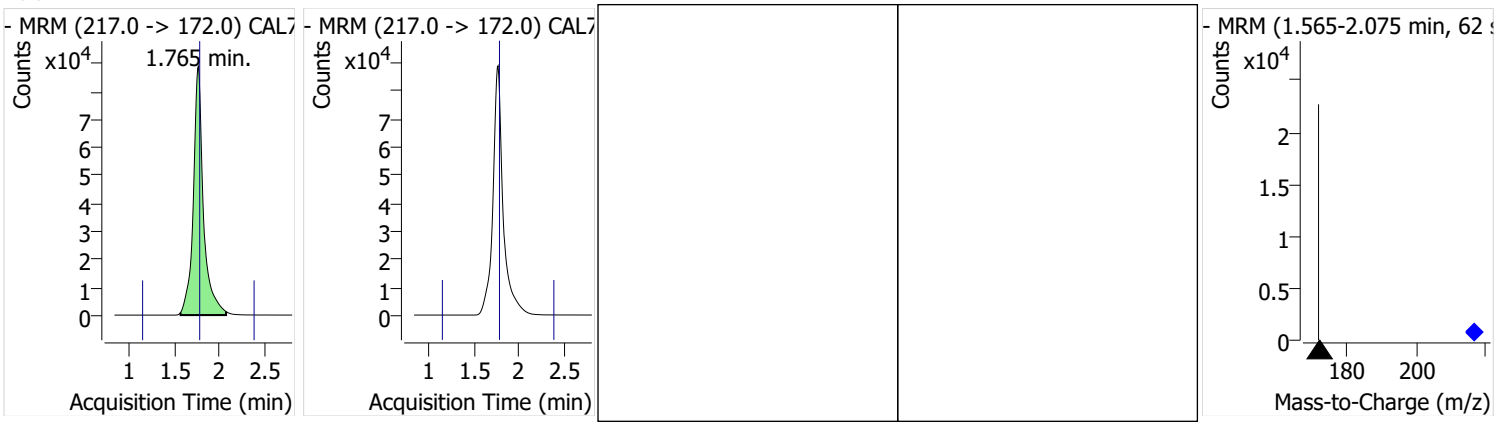
13C2-PFDoA



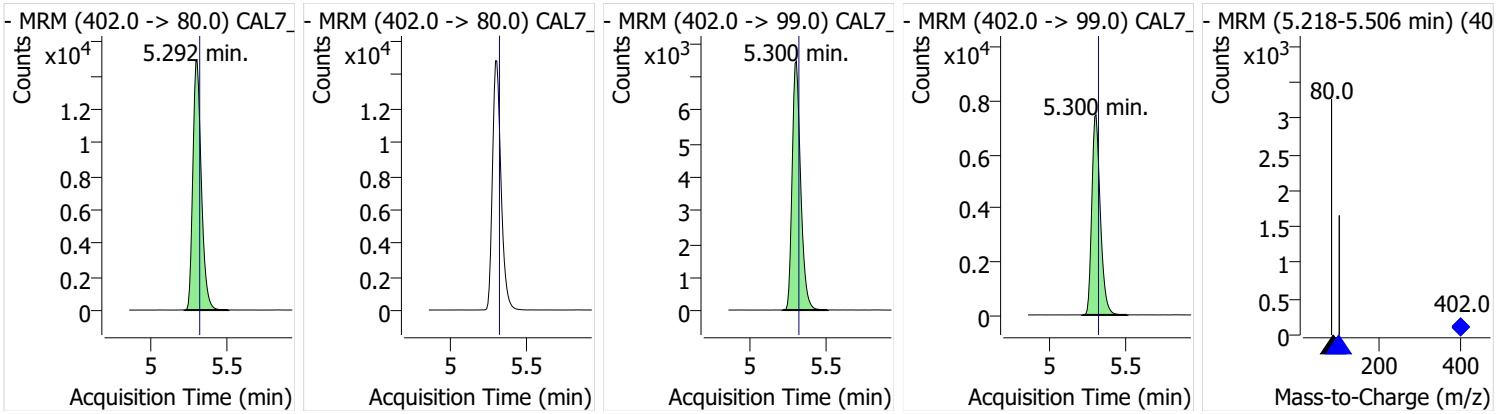
13C4-PFHpA



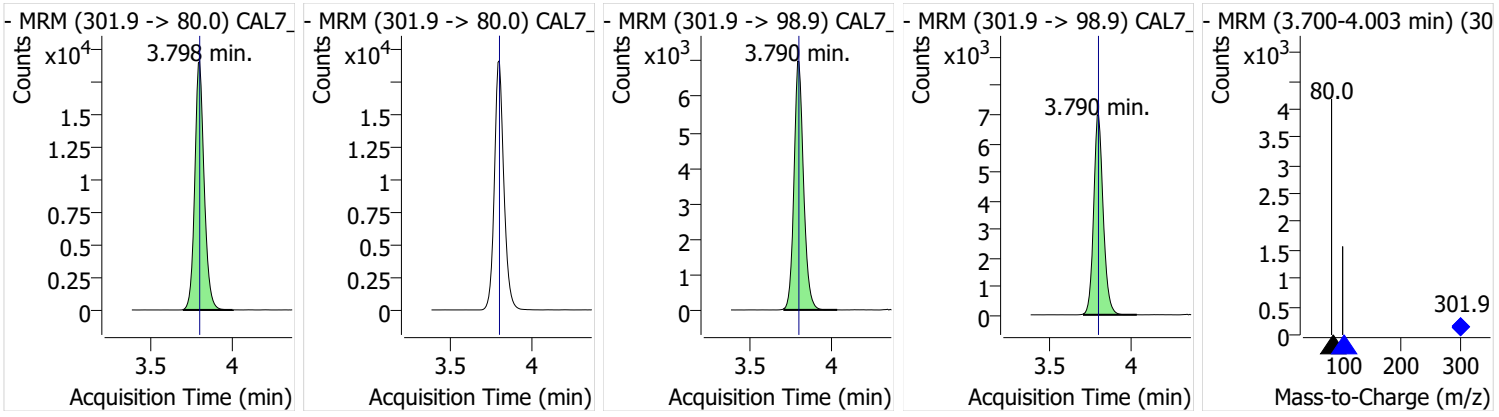
13C4-PFBA



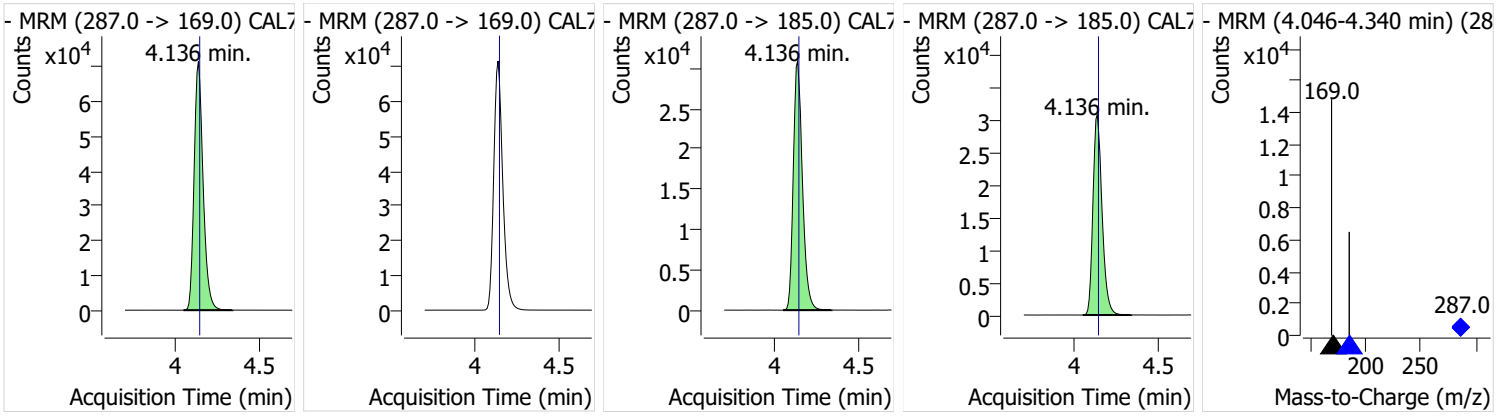
13C3-PFHxS



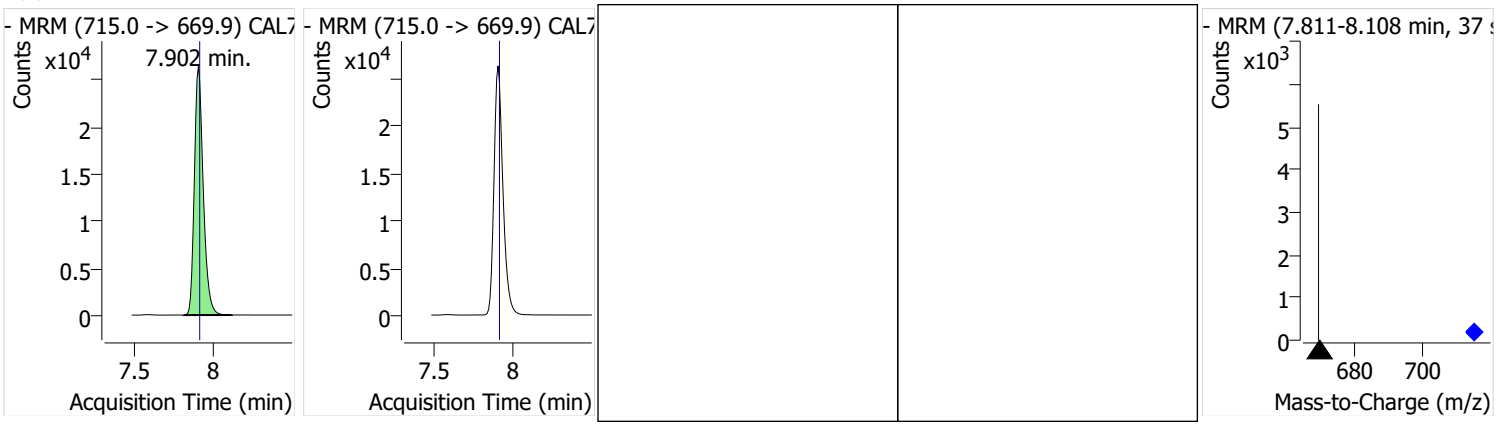
13C3-PFBS



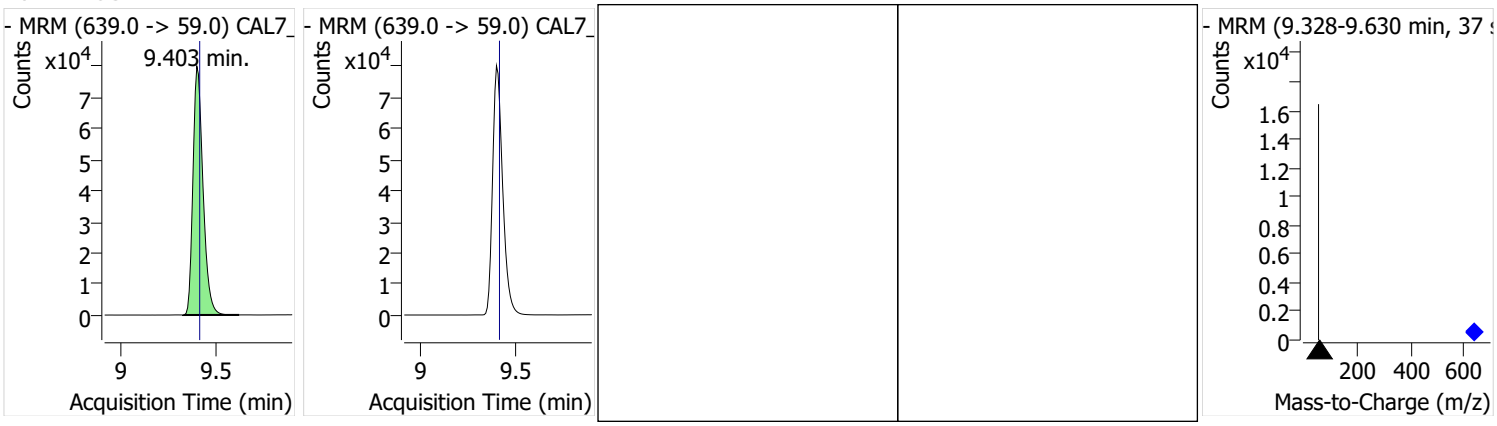
13C3-HFPODA



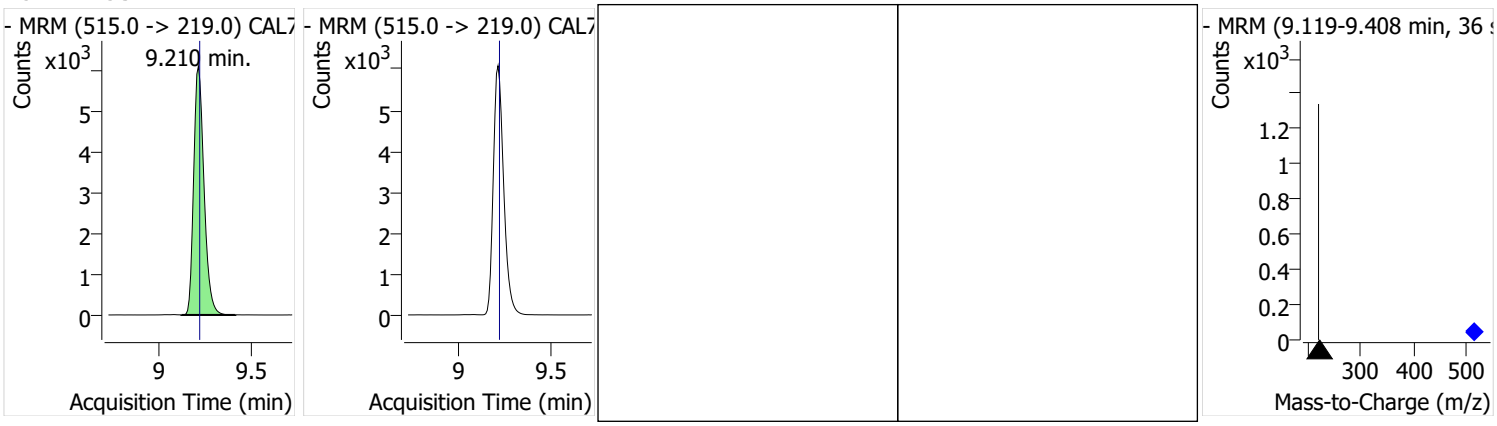
13C2-PFTeDA



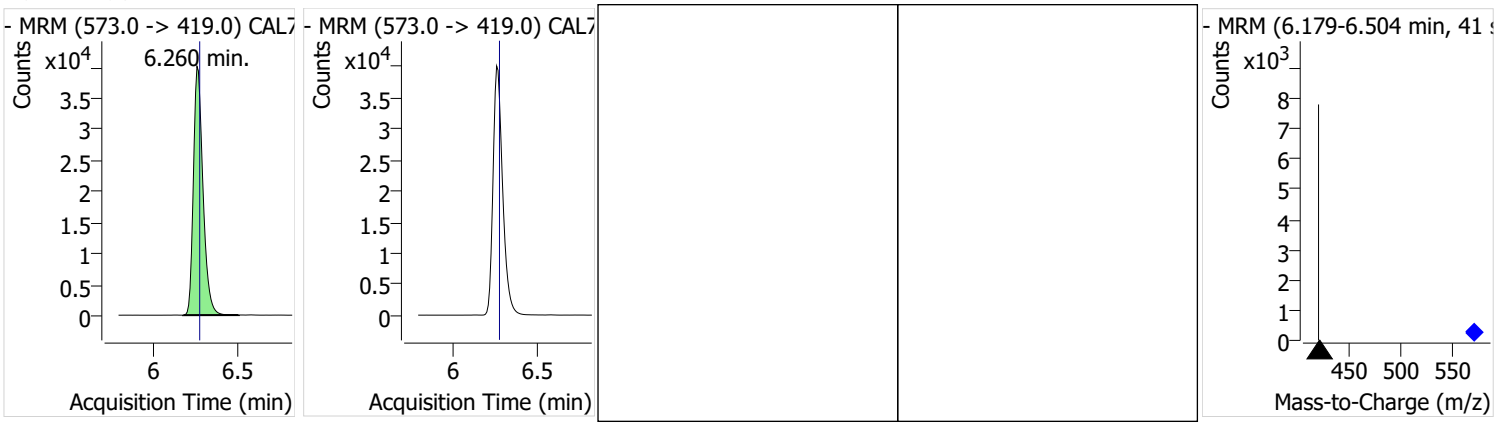
D9-NEtFOSE



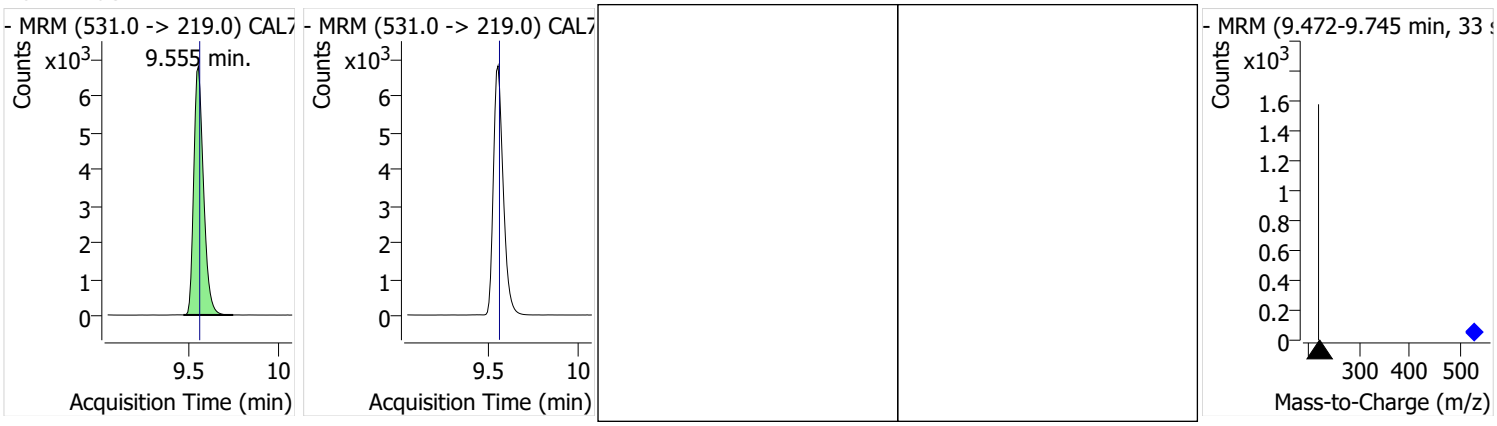
D3-NMeFOSA



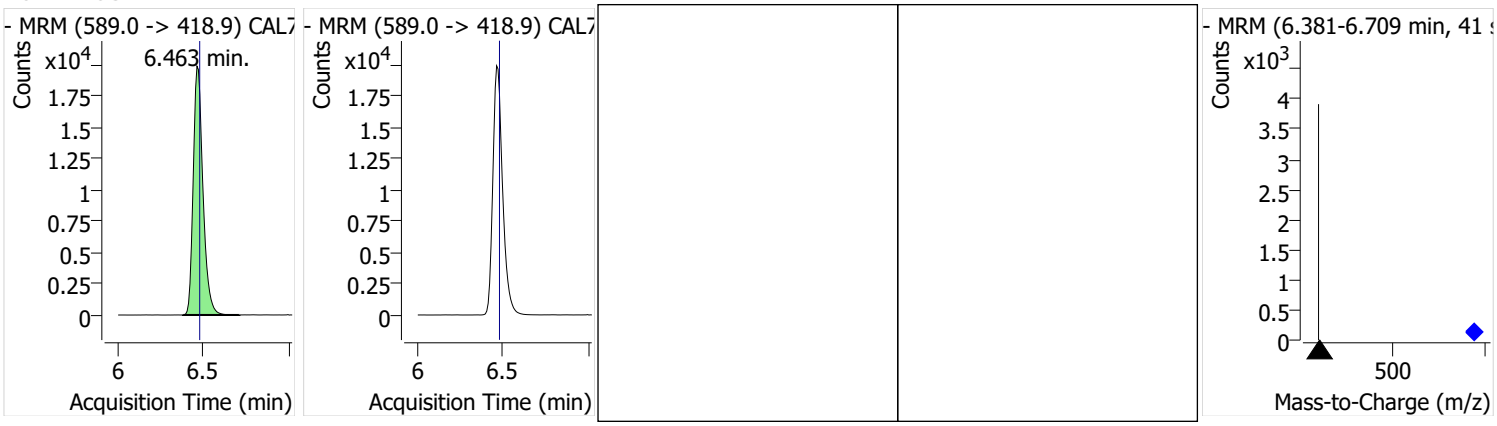
D3-NMeFOSAA



D5-NEtFOSA



D5-NEtFOSAA



D7-NMeFOSE

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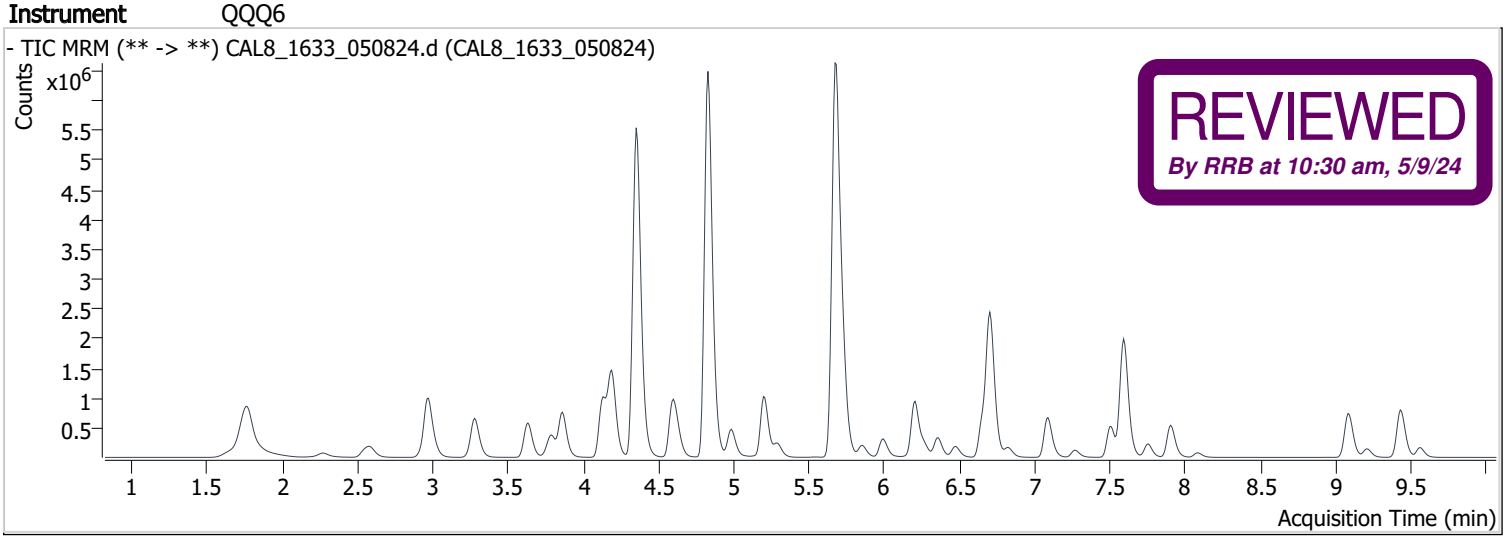
Acq. Time	5/8/2024 8:06 PM	**Data File**	CAL8_1633_050824.d
Sample Type	Cal	**Sample Name**	CAL8_1633_050824
Dilution	1	**Acq. Method**	1633_ACQUISITION_01.m
Sample Comment	E#24E0161	**Processing method**	1633_042924.m
Instrument	QQQ6		



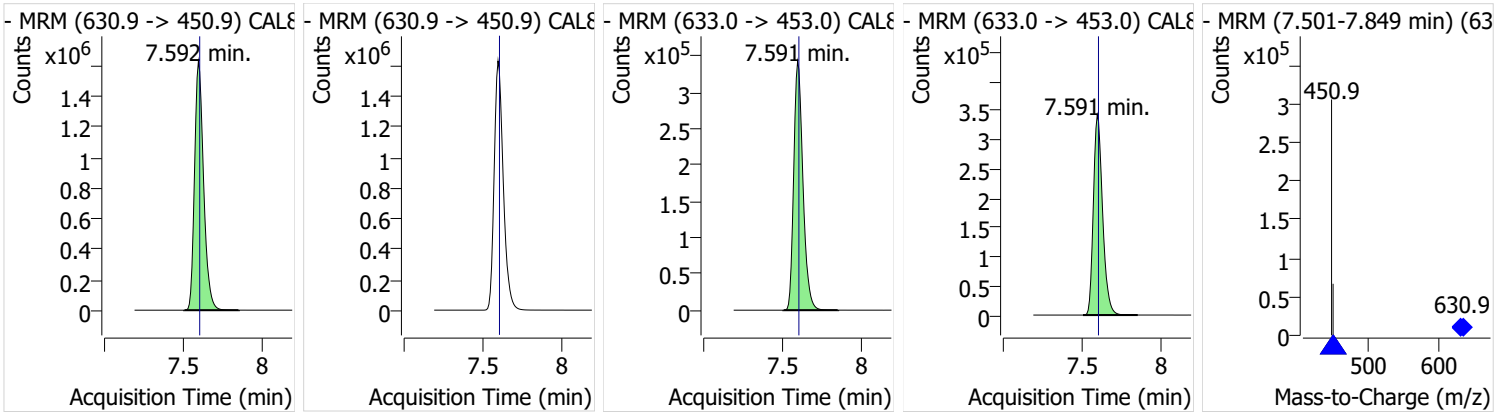
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
11Cl-PF3OUdS	7.592	6511018	589009.83		13C3-HFPODA - ISTD	4.136	244487	90.2430	ng/ml			
633.0 -> 453.0			210831.53	21.3								
3:3FTCA	2.574	728084	228662.52		13C5-PFPeA - ISTD	2.961	401656	255.0354	ng/ml			
241.0 -> 117.0			42879.91	48.4								
4:2FTS	3.631	1544001	250382.85		13C2-4:2FTS - ISTD	3.630	29436	89.8572	ng/ml			
327.0 -> 80.9			127618.63	38.2								
5:3FTCA	4.351	11267695	725305.26		13C5-PFHxA - ISTD	3.861	222555	1270.5886	ng/ml			
341.0 -> 217.0			1336908.75	91.4								
6:2FTS	4.983	1210372	304179.37		13C2-6:2FTS - ISTD	4.982	20189	88.4999	ng/ml			
427.0 -> 80.9			64482.54	33.4								
7:3FTCA	5.674	13544134	29723.03		13C5-PFHxA - ISTD	3.861	222555	1296.8714	ng/ml			
441.0 -> 317.0			16590.10	90.3								
8:2FTS	5.992	779557	2379247.64		13C2-8:2FTS - ISTD	5.991	17394	87.7944	ng/ml			
527.0 -> 81.0			40295.07	41.4								
9Cl-PF3ONS	6.704	7007602	133625.37		13C3-HFPODA - ISTD	4.136	244487	86.8527	ng/ml			
533.0 -> 353.0			101507.13	29.6								
ADONA	4.830	18440993	40588.91		13C3-HFPODA - ISTD	4.136	244487	101.5165	ng/ml			
377.0 -> 85.1			28917.02	32.5								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA	4.137	2191174	28980.42		13C3-HFPODA - ISTD	4.136	244487	97.3908	ng/ml			
285.0 -> 184.9			21320.08	54.8								
NEtFOSA	9.565	298277	372495.14		D5-NEtFOSA - ISTD	9.555	21987	26.1128	ng/ml			
526.0 -> 219.0			415096.84	94.7								
NEtFOSAA	6.472	443970	12309.73		D5-NEtFOSAA - ISTD	6.463	75676	24.2354	ng/ml	✔	3	AMS 05/09/24
584.0 -> 526.0			10165.74	69.6								
NEtFOSE	9.428	2955199	796943.53		D9-NEtFOSE - ISTD	9.403	273096	242.2065	ng/ml			
NFDHA	3.775	367886	133544.16		13C5-PFHxA - ISTD	3.861	222555	48.8975	ng/ml			
295.0 -> 85.0			12542.23	35.0								
NMeFOSA	9.211	266120	108469.14		D3-NMeFOSA - ISTD	9.210	22097	24.8633	ng/ml			
512.0 -> 219.0			108715.50	92.9								
NMeFOSAA	6.269	302857	5994.18		D3-NMeFOSAA - ISTD	6.268	143728	24.8483	ng/ml	✔	3	AMS 05/09/24
570.0 -> 418.9			6010.98	67.4								
NMeFOSE	9.082	2744108	1093682.80		D7-NMeFOSE - ISTD	9.065	260341	244.1162	ng/ml			
PFBA	1.762	6022716	76840.26		13C4-PFBA - ISTD	1.765	656561	99.3770	ng/ml			
PFBS	3.799	753767	63866.52		13C3-PFBS - ISTD	3.798	68328	22.1005	ng/ml			
298.9 -> 98.8			48878.50	39.8								
PFDA	6.206	2710465	57539.65		13C6-PFDA - ISTD	6.205	128796	25.5369	ng/ml			
513.0 -> 219.0			142323.38	16.1								
PFDoA	7.087	2253913	64303.94		13C2-PFDoA - ISTD	7.087	111064	24.4834	ng/ml			
613.0 -> 319.0			26737.27	12.7								
PFDoS	8.086	182240	66685.59		13C8-PFOS - ISTD	6.362	39214	23.3199	ng/ml			
698.9 -> 99.0			32090.98	62.1								
PFDS	7.271	290783	46753.12		13C8-PFOS - ISTD	6.362	39214	22.7598	ng/ml			
599.0 -> 98.8			53150.13	60.4								
PFEESA	4.189	4859958	487483.94		13C5-PFHxA - ISTD	3.861	222555	43.3890	ng/ml			
315.0 -> 83.0			105017.69	7.0								
PFHpA	4.591	2623043	45120.71		13C4-PFHpA - ISTD	4.590	254675	24.7105	ng/ml			
362.9 -> 169.0			58634.23	17.9								
PFHpS	5.857	481798	54683.09		13C8-PFOS - ISTD	6.362	39214	23.3086	ng/ml			
449.0 -> 98.8			69125.69	52.0								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFHxA	3.863	2266749	24652.28		13C5-PFHxA - ISTD	3.861	222555	25.0515	ng/ml			
313.0 -> 118.9			11560.43	3.4								
PFHxS	5.293	541627	32569.83		13C3-PFHxS - ISTD	5.300	54054	22.1953	ng/ml	✔	3	AMS 05/09/24
398.9 -> 99.0			23482.19	44.9								
PFMBA	3.280	2741002	521145.28		13C5-PFPeA - ISTD	2.961	401656	49.5654	ng/ml			
PFMPA	2.267	436585	12091.09		13C5-PFPeA - ISTD	2.961	401656	49.6632	ng/ml			
PFNA	5.722	2771925	51972.20		13C9-PFNA - ISTD	5.721	138219	24.9411	ng/ml			
463.0 -> 219.0			82164.14	20.8								
PFNS	6.826	374667	21342.18		13C8-PFOS - ISTD	6.362	39214	23.4694	ng/ml			
549.0 -> 98.8			38248.47	53.7								
PFOA	5.198	2922016	9512.47		13C8-PFOA - ISTD	5.197	236116	24.6493	ng/ml			
413.0 -> 169.0			16165.11	24.4								
PFOS	6.363	451250	18461.45		13C8-PFOS - ISTD	6.362	39214	22.1404	ng/ml	✔	3	AMS 05/09/24
499.0 -> 99.0			16807.23	47.3								
PFOSA	7.761	762030	391492.30		13C8-PFOSA - ISTD	7.760	67034	25.7460	ng/ml			
497.9 -> 478.0			231217.13	3.2								
PFPeA	2.971	4073756	141236.06		13C5-PFPeA - ISTD	2.961	401656	50.2186	ng/ml			
263.0 -> 69.0			4590.22	0.3								
PFPeS	4.625	638384	31114.19		13C3-PFHxS - ISTD	5.300	54054	22.7907	ng/ml			
349.0 -> 98.9			34037.63	46.8								
PFTeDA	7.902	1863567	15398.07		13C2-PFTeDA - ISTD	7.902	94382	24.5399	ng/ml			
713.0 -> 168.9			12344.79	8.1								
PFTrDA	7.499	1847882	21077.60		13C2-PFDoA - ISTD	7.087	111064	23.5622	ng/ml			
663.0 -> 168.9			13560.82	13.6								
PFUnA	6.654	2003300	60349.62		13C7-PFUnA - ISTD	6.653	104730	23.8004	ng/ml			
563.0 -> 269.1			54261.65	18.5								
TDCA	6.225	100365	4096.22					-	ng/ml			
499.0 -> 99.0			2043.07	25.9								
13C2-8:2FTS	5.991	17394	11247.38		18O2-PFHxS	5.299	52071	5.0818	ng/ml			
529.0 -> 509.0			19341.11	*518.1								
13C2-4:2FTS	3.630	29436	5290.90		18O2-PFHxS	5.299	52071	4.7238	ng/ml			

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
329.0 -> 309.0			41421.46	*498.5								
13C2-6:2FTS	4.982	20189	4185.43		18O2-PFHxS	5.299	52071	4.7947	ng/ml			
429.0 -> 409.0			21820.64	*654.0								
13C5-PFHxA	3.861	222555	22690.35		13C2-PFHxA	3.861	211292	2.5561	ng/ml			
318.0 -> 120.0			1057.58	1.8								
13C6-PFDA	6.205	128796	13897.48		13C2-PFDA	6.205	129539	1.2601	ng/ml			
13C7-PFUnA	6.653	104730	25679.66		13C2-PFDA	6.205	129539	1.2657	ng/ml			
13C8-PFOA	5.197	236116	42987.31		13C4-PFOA	5.198	33594	2.5637	ng/ml			
13C8-PFOS	6.362	39214	5508.82		13C4-PFOS	6.363	42451	2.5695	ng/ml			
507.0 -> 99.0			8347.30	53.5								
13C8-PFOSA	7.760	67034	526487.91		13C4-PFOS	6.363	42451	2.4974	ng/ml			
13C9-PFNA	5.721	138219	14150.36		13C5-PFNA	5.722	153984	1.3163	ng/ml			
13C5-PFPeA	2.961	401656	15387.41		13C2-PFHxA	3.861	211292	5.1473	ng/ml			
13C2-PFDoA	7.087	111064	9155.23		13C2-PFDA	6.205	129539	1.3005	ng/ml			
13C4-PFHpA	4.590	254675	22197.82		13C2-PFHxA	3.861	211292	2.6149	ng/ml			
13C4-PFBA	1.765	656561	137328.00		13C3-PFBA	1.760	291809	10.3631	ng/ml			
13C3-PFHxS	5.300	54054	13452.68		18O2-PFHxS	5.299	52071	2.5419	ng/ml			
402.0 -> 99.0			8246.58	50.8								
13C3-PFBS	3.798	68328	17598.20		18O2-PFHxS	5.299	52071	2.4279	ng/ml			
301.9 -> 98.9			4622.09	35.5								
13C3-HFPODA	4.136	244487	18856.15		13C2-PFHxA	3.861	211292	10.0387	ng/ml			
287.0 -> 185.0			13020.89	43.7								
13C2-PFTeDA	7.902	94382	6966.46		13C2-PFDA	6.205	129539	1.2835	ng/ml			
D9-NEtFOSE	9.403	273096	32851.01		13C4-PFOS	6.363	42451	24.4665	ng/ml			
D3-NMeFOSA	9.210	22097	23871.17		13C4-PFOS	6.363	42451	2.5667	ng/ml			
D3-NMeFOSAA	6.268	143728	20527.45		13C4-PFOS	6.363	42451	5.2264	ng/ml			
D5-NEtFOSA	9.555	21987	13800.36		13C4-PFOS	6.363	42451	2.4483	ng/ml			
D5-NEtFOSAA	6.463	75676	4751.36		13C4-PFOS	6.363	42451	5.4382	ng/ml			
D7-NMeFOSE	9.065	260341	222549.71		13C4-PFOS	6.363	42451	24.9573	ng/ml			

11Cl-PF3OUdS



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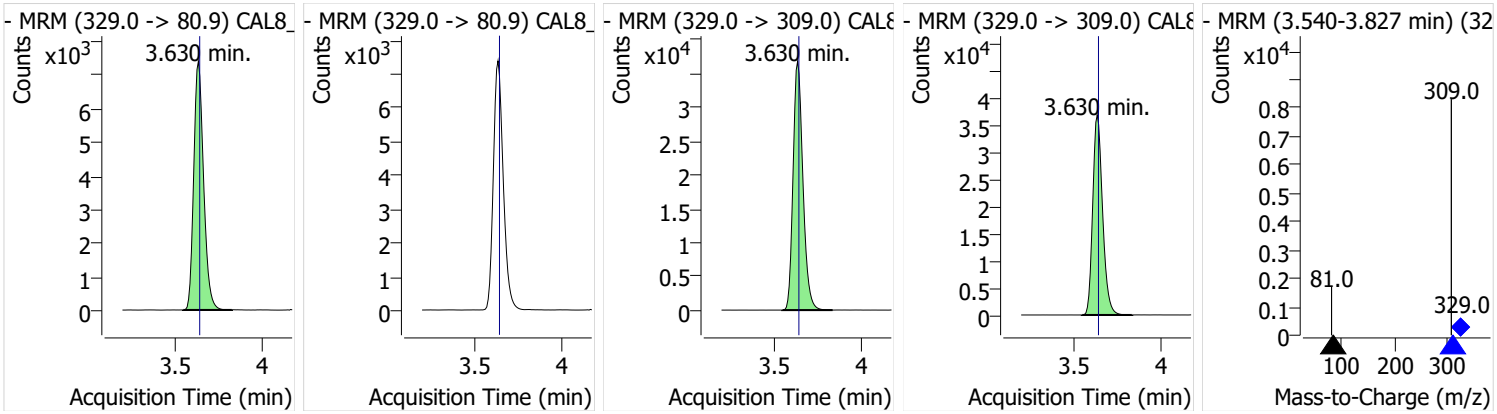
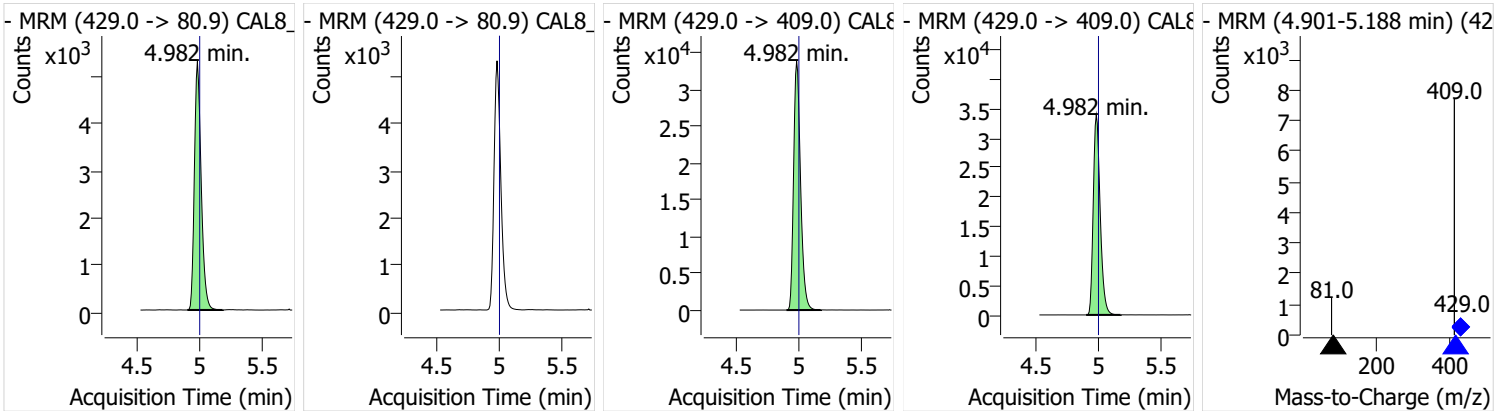
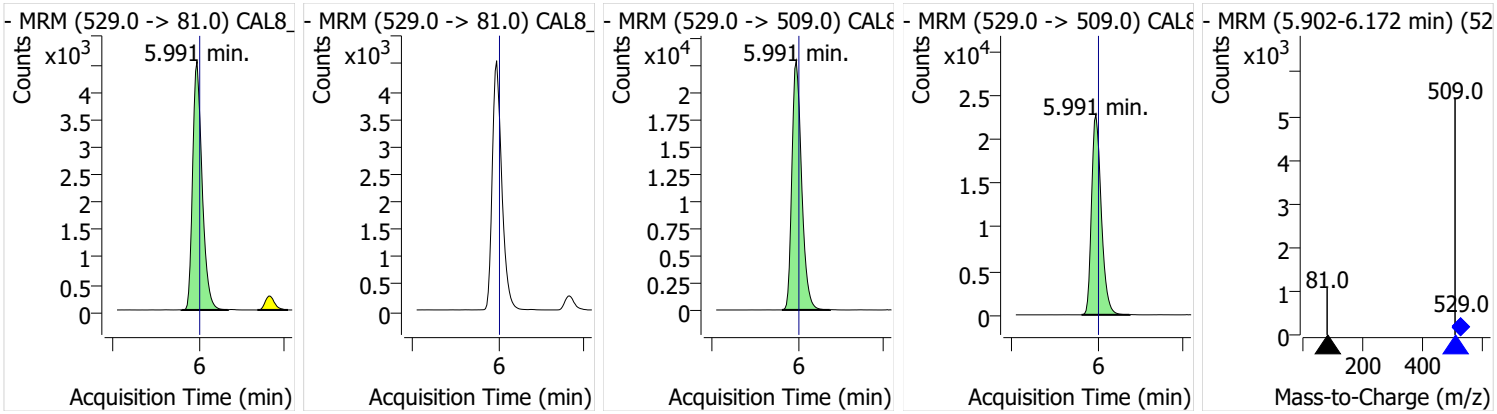


13C2-6:2FTS - ISTD



13C2-8:2FTS - ISTD



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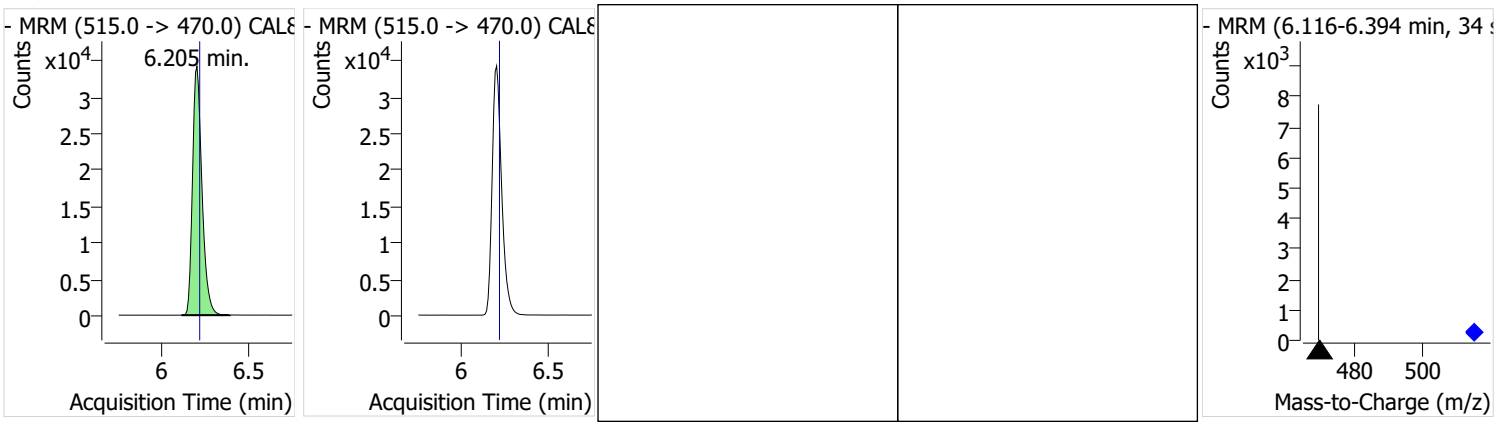
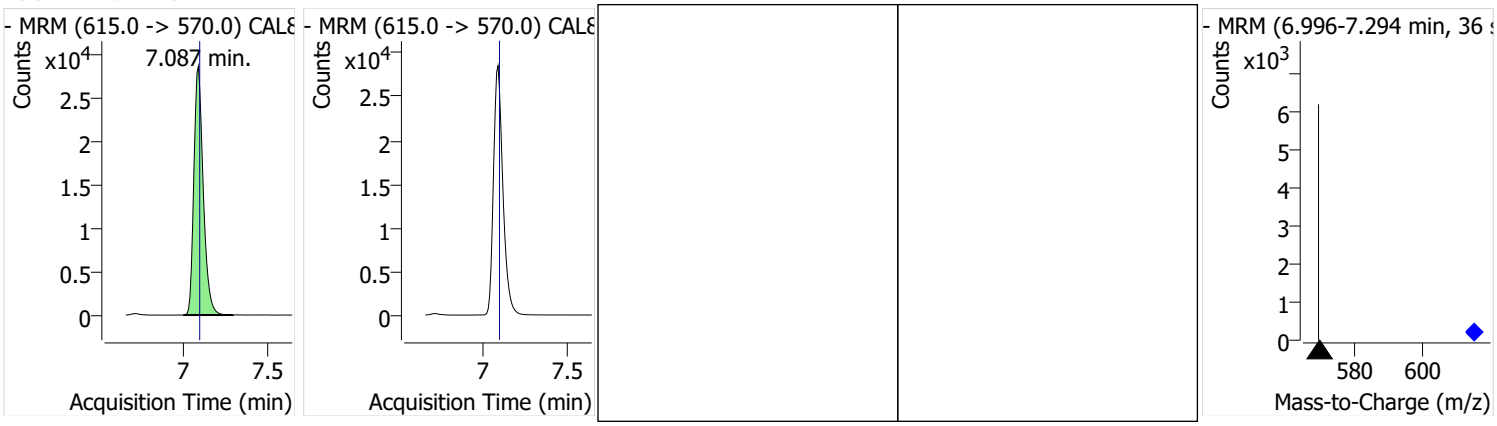
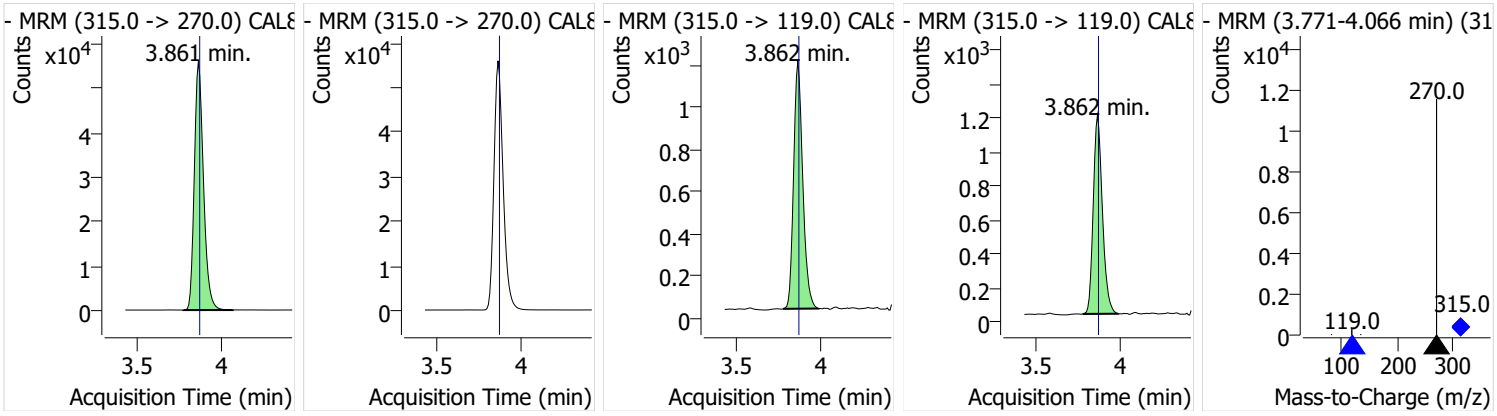


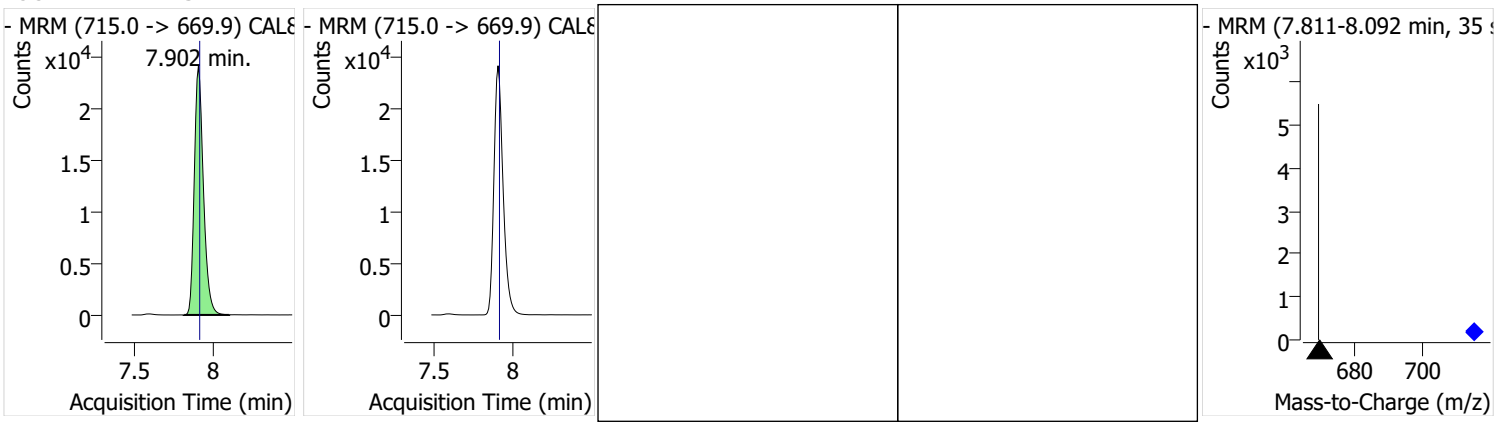
13C2-PFDoA - ISTD



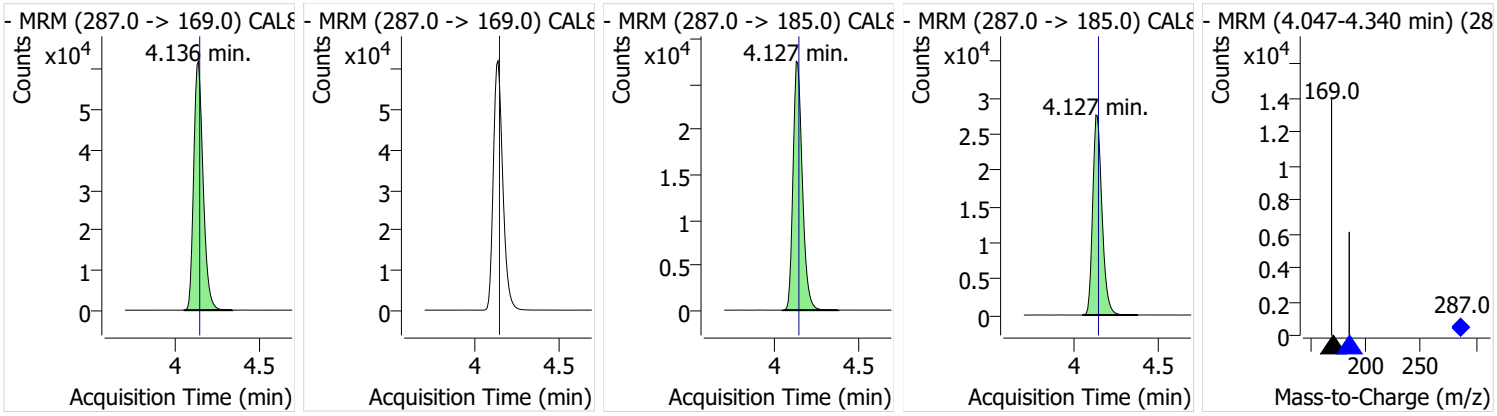
13C2-PFHxA



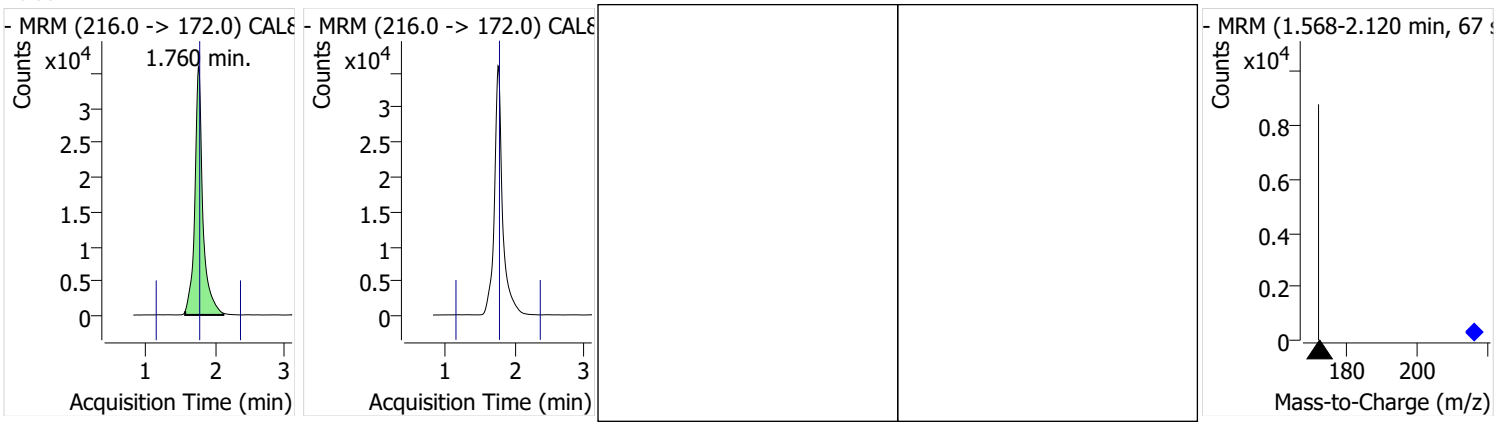
13C2-PFTeDA - ISTD



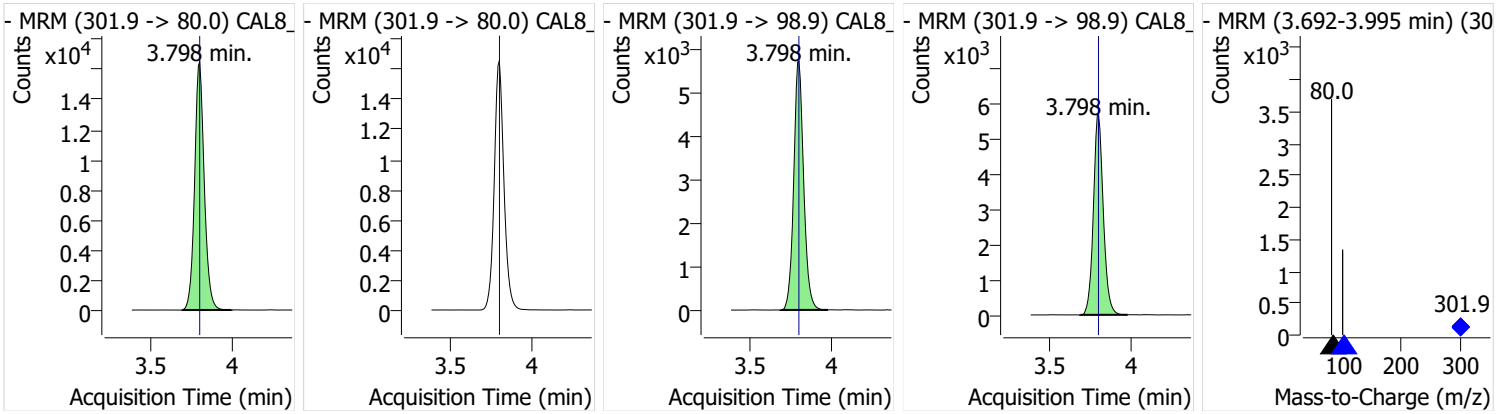
13C3-HFPODA - ISTD



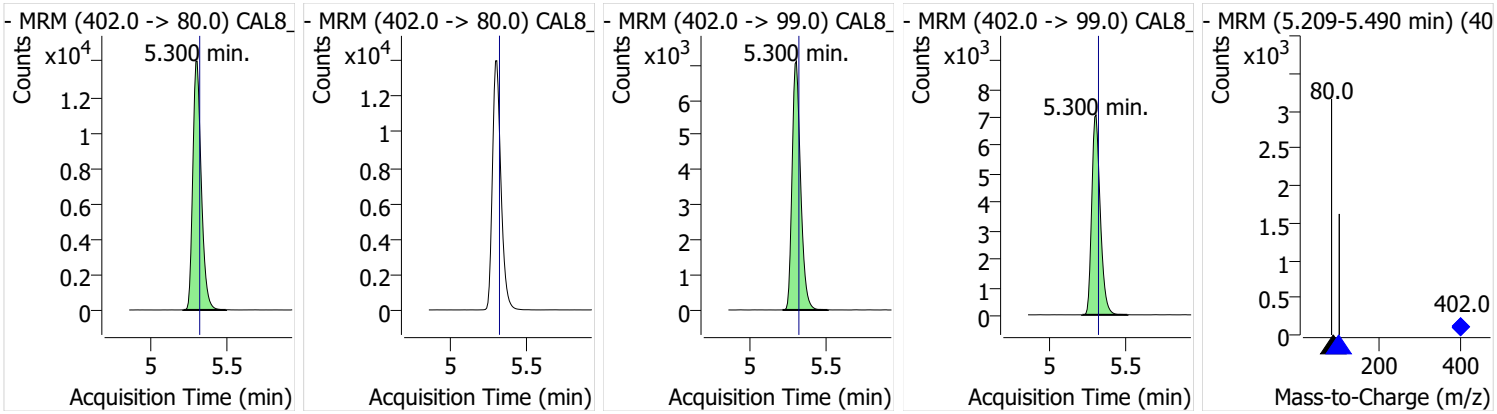
13C3-PFBA



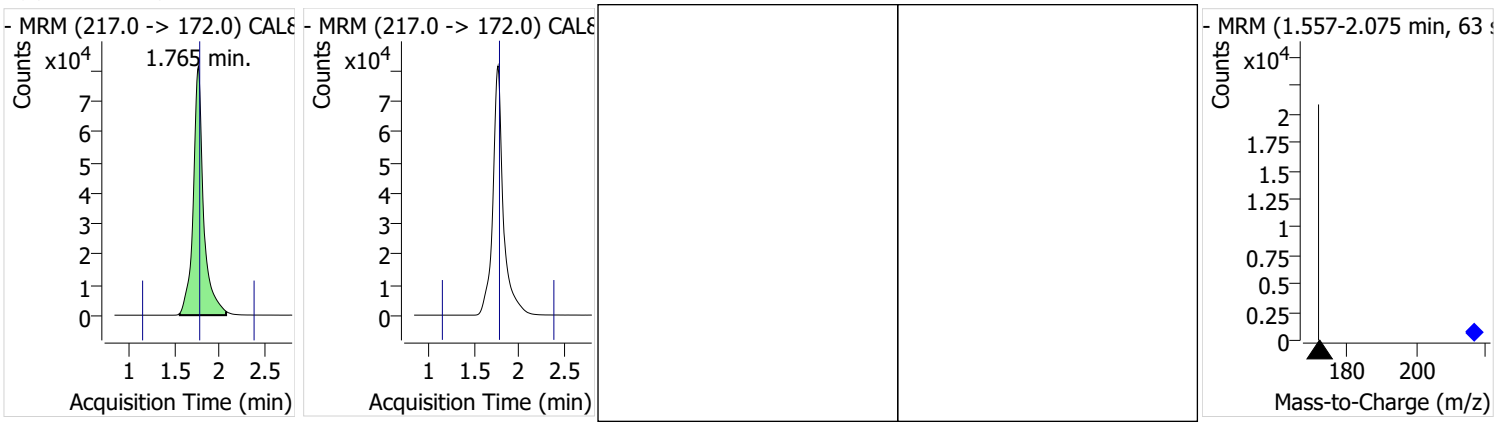
13C3-PFBS - ISTD



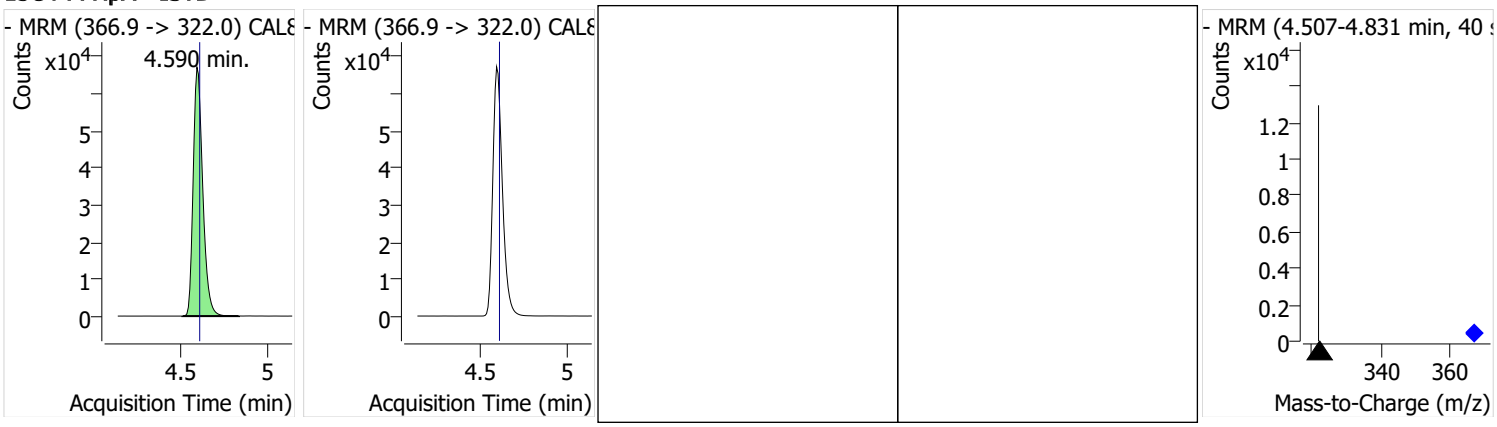
13C3-PFHxS - ISTD



13C4-PFBA - ISTD



13C4-PFHpA - ISTD



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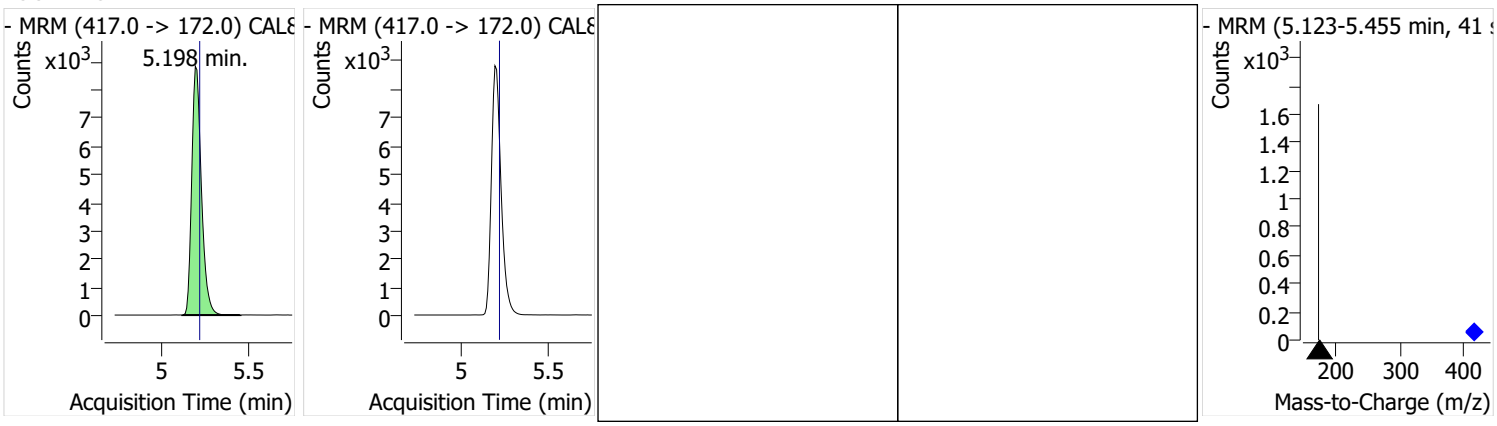
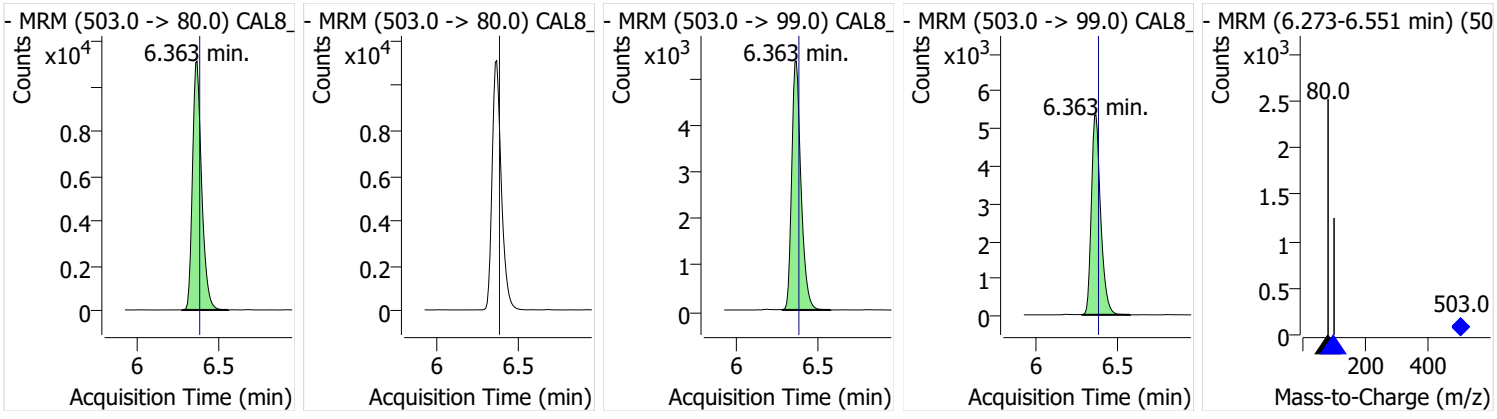
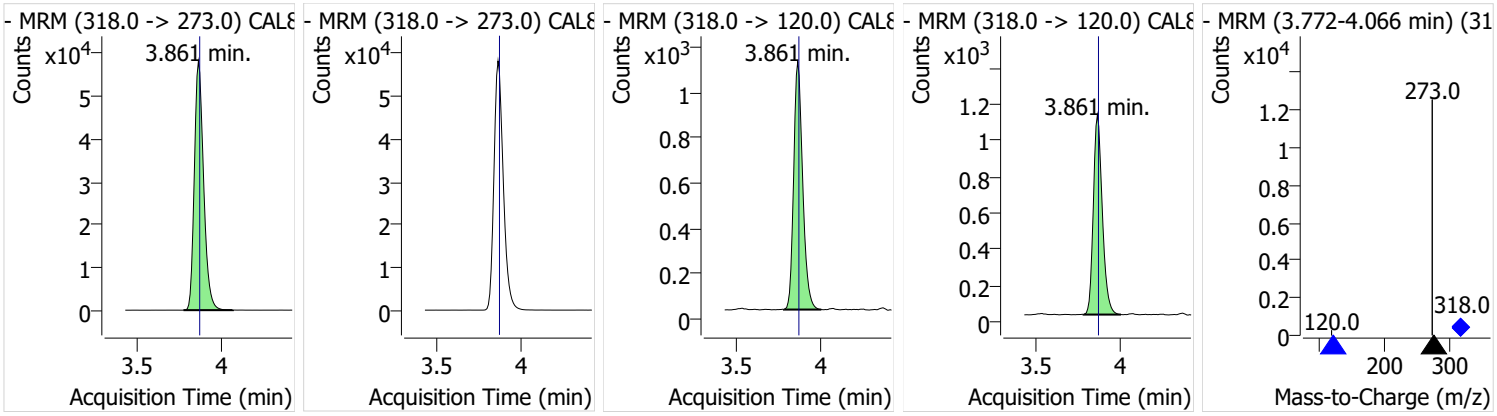


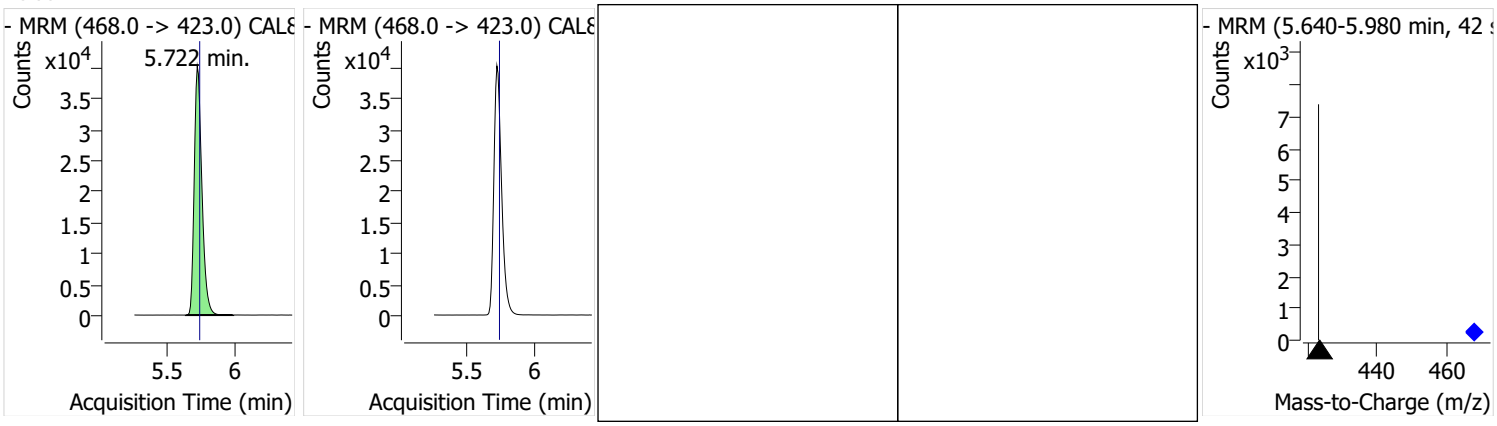
13C4-PFOS



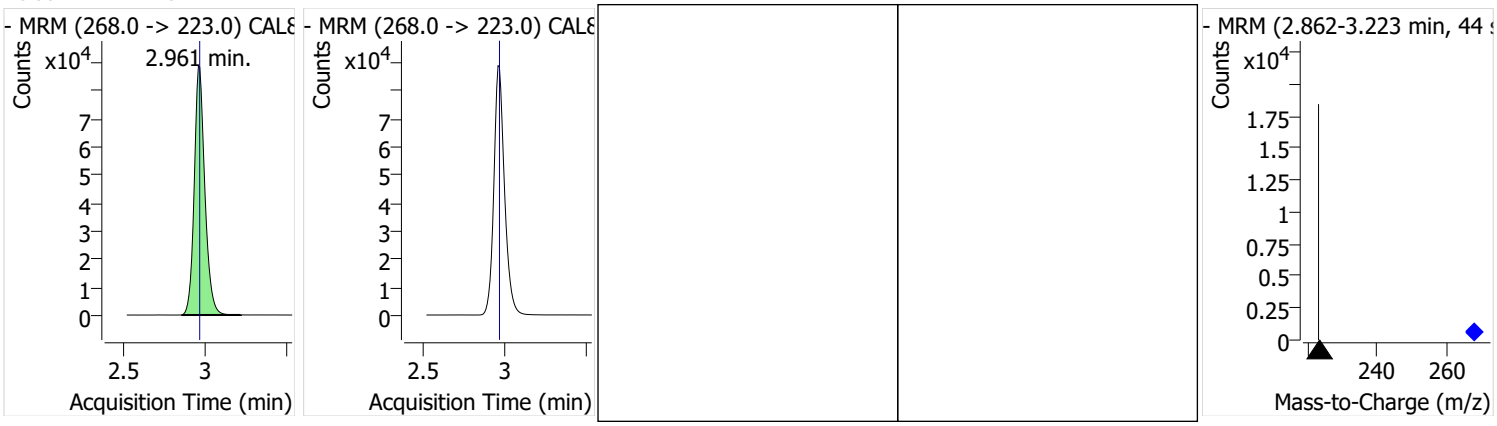
13C5-PFHxA - ISTD



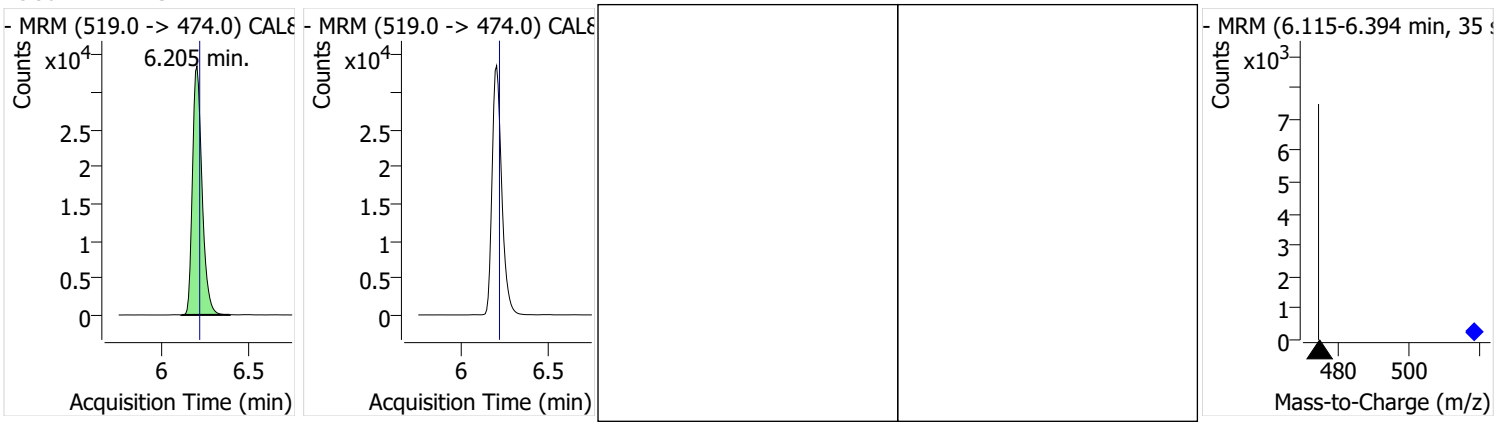
13C5-PFNA



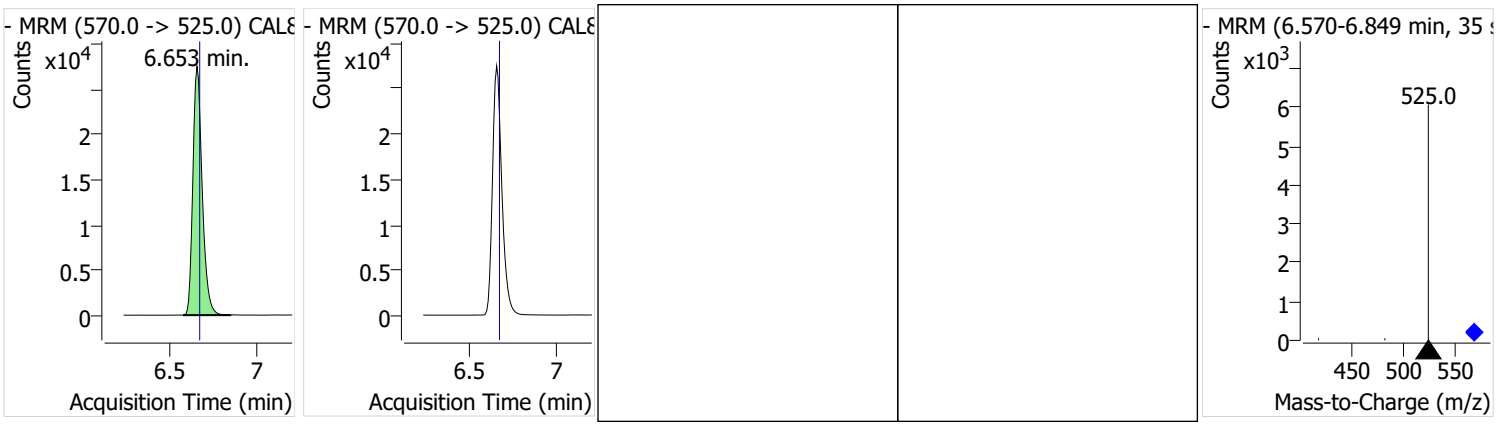
13C5-PFPeA - ISTD



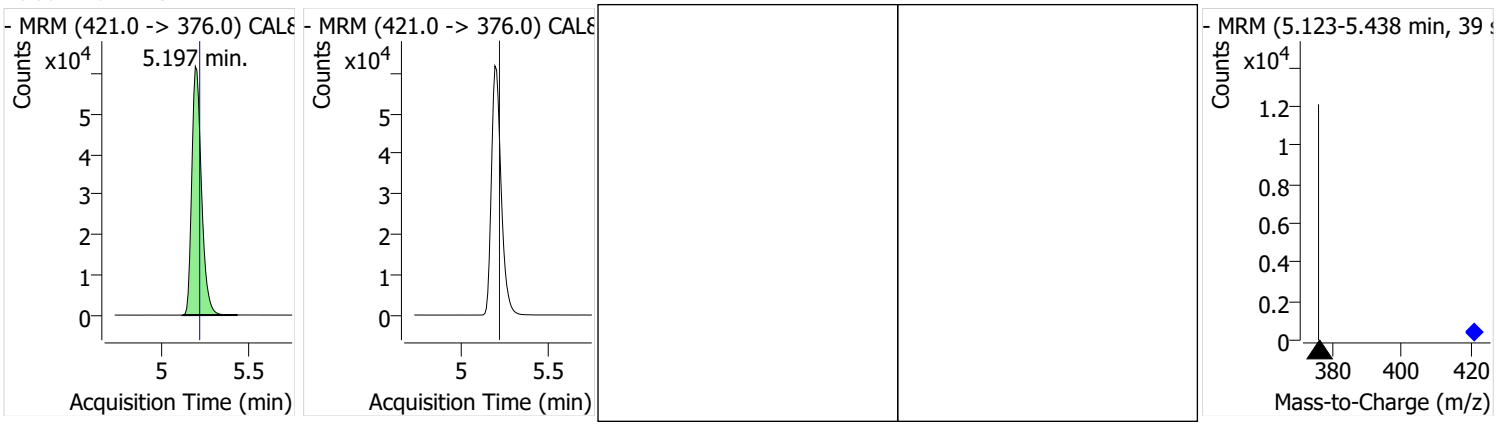
13C6-PFDA - ISTD



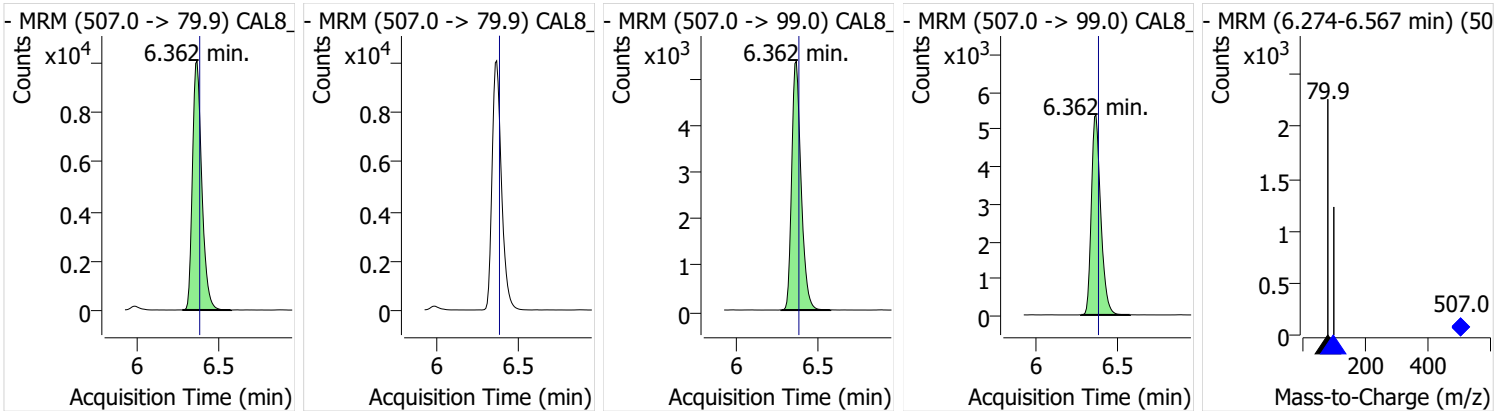
13C7-PFUnA - ISTD



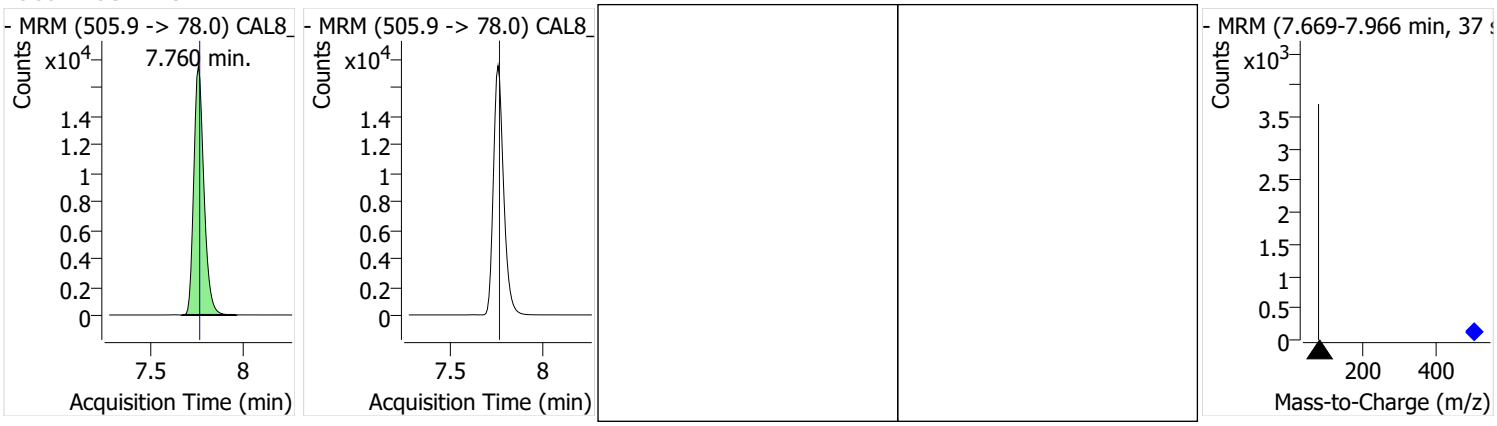
13C8-PFOA - ISTD



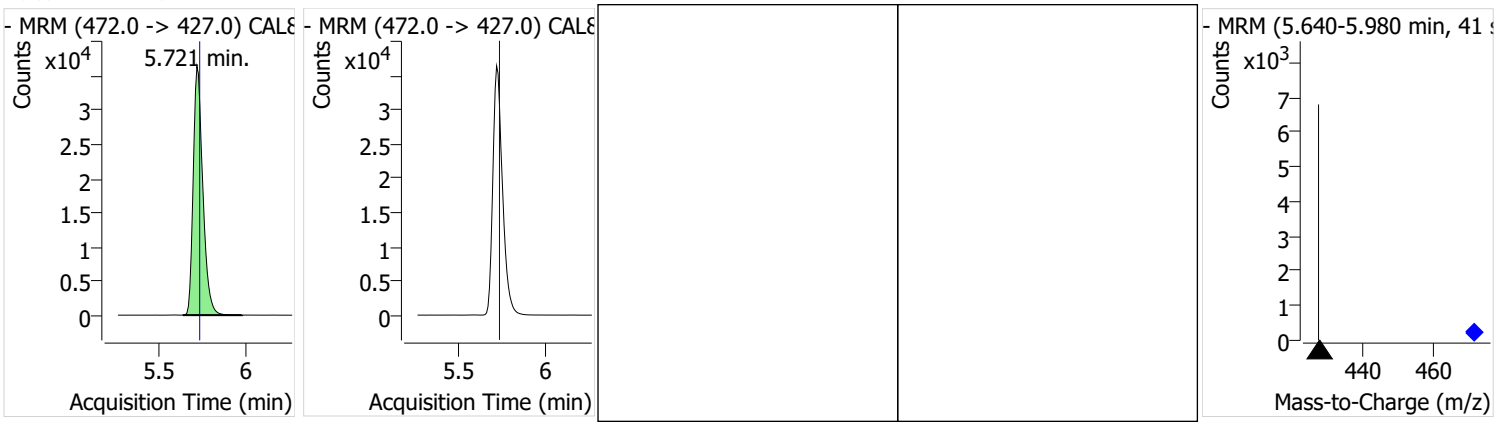
13C8-PFOS - ISTD



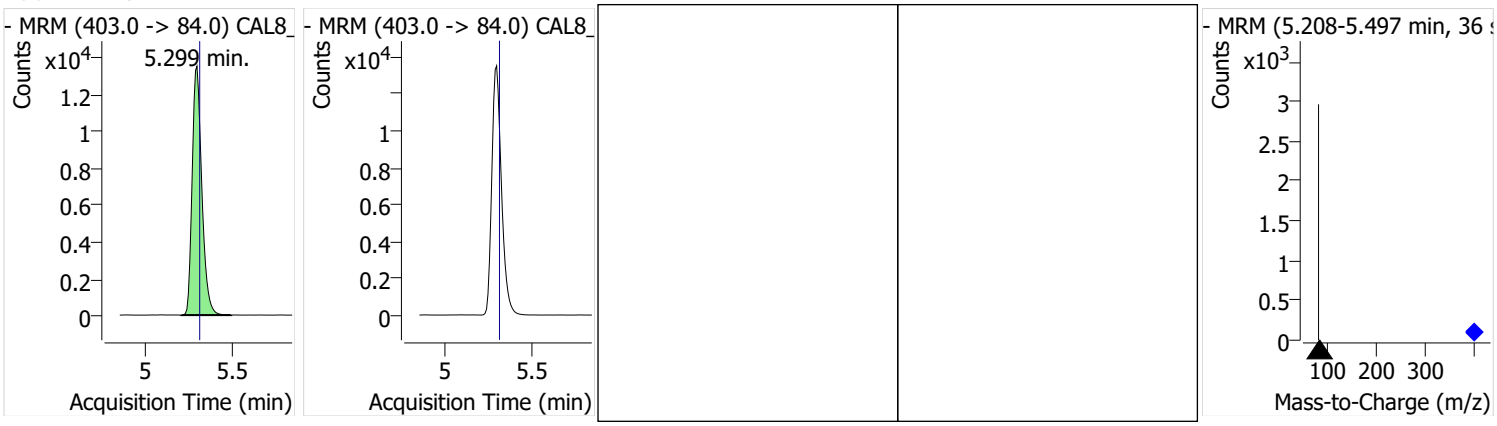
13C8-PFOSA - ISTD



13C9-PFNA - ISTD



18O2-PFHxS



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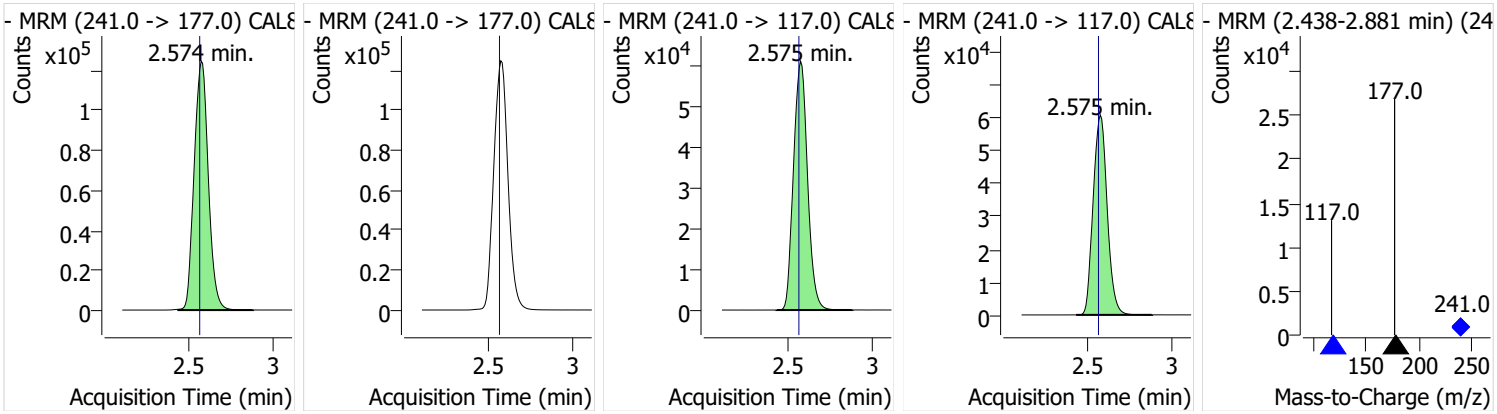
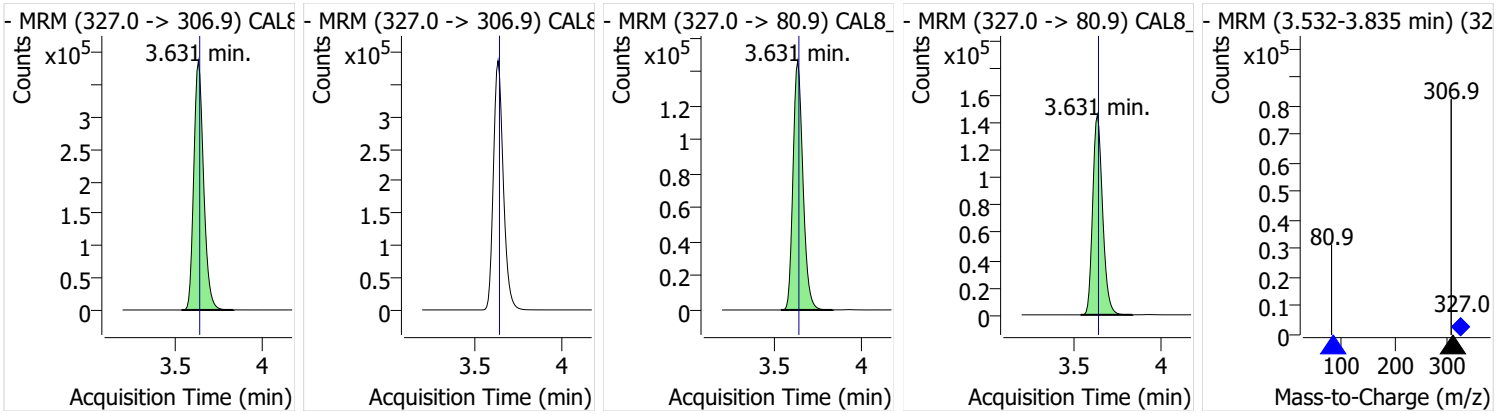


4:2FTS



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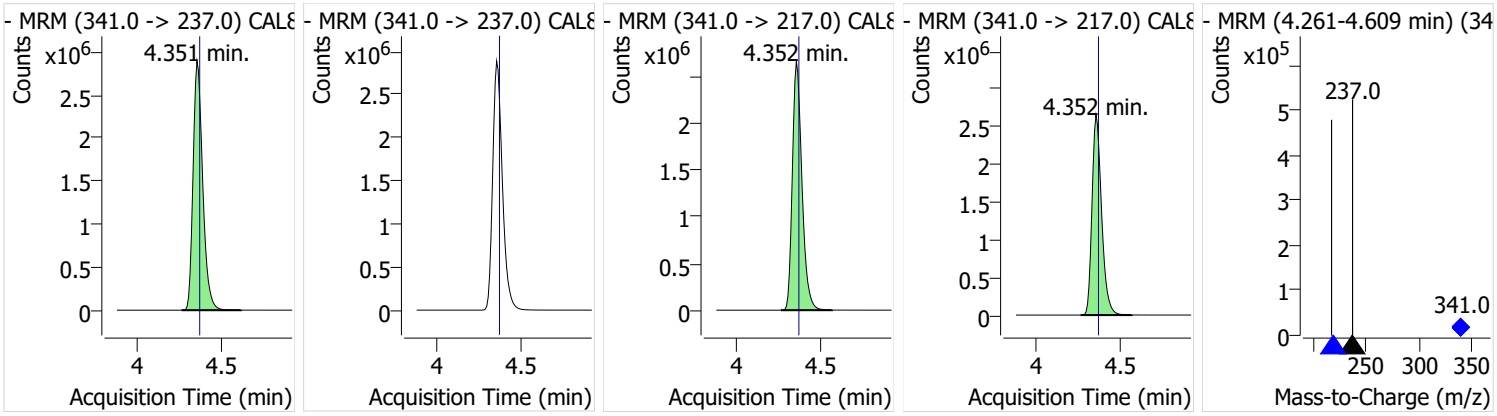

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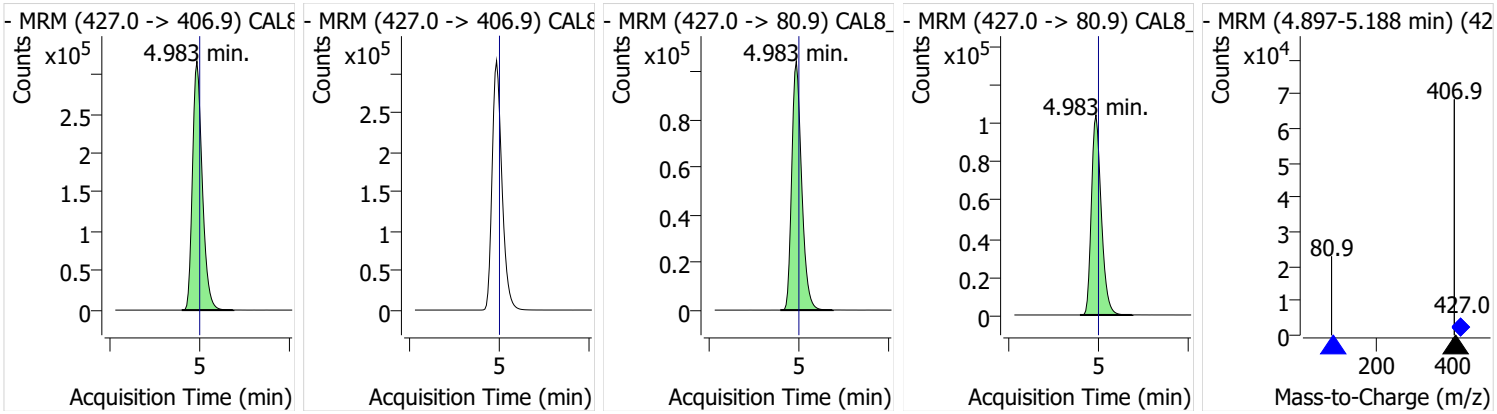

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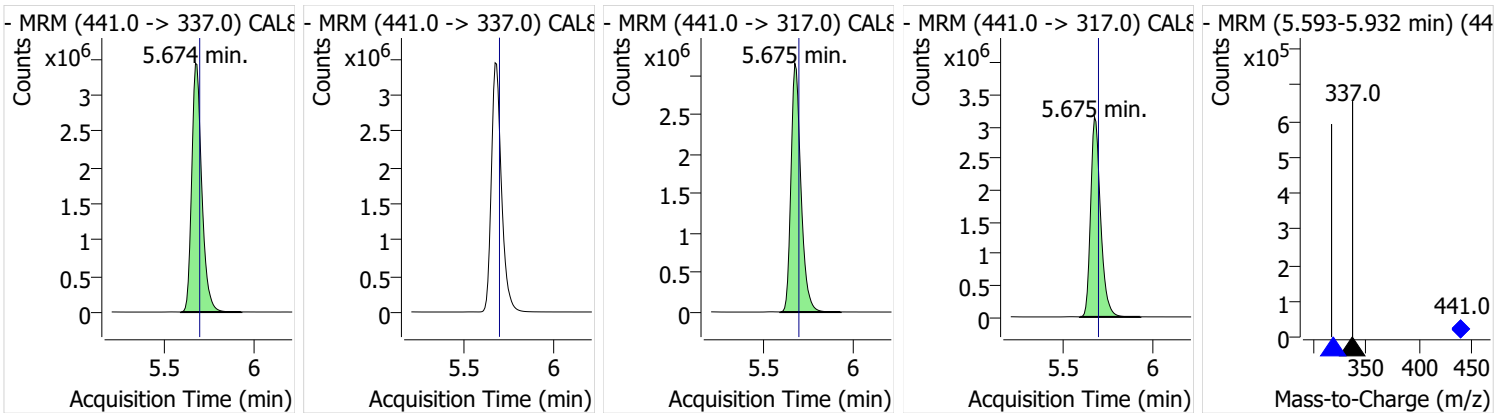
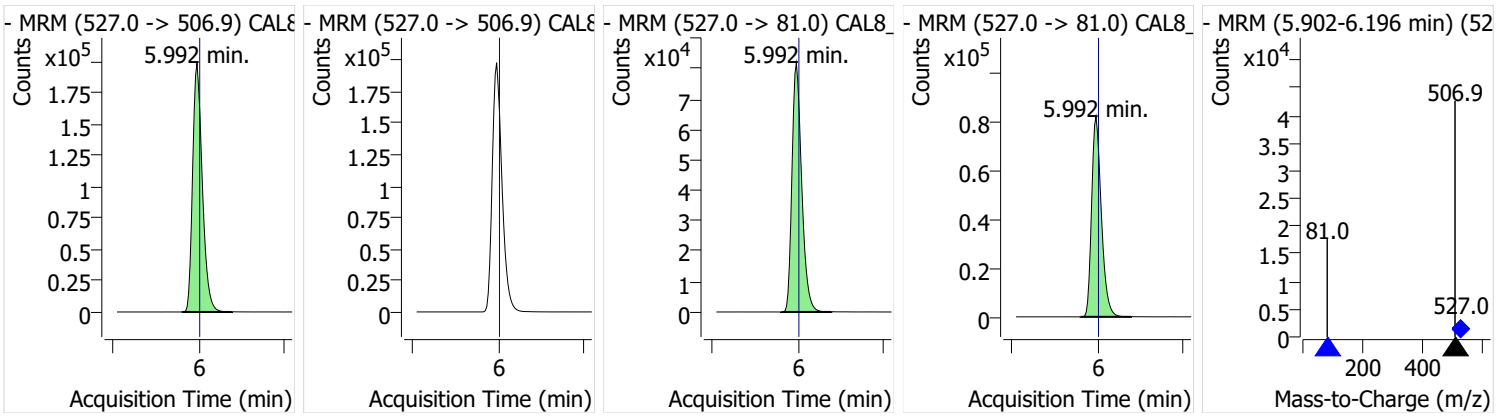
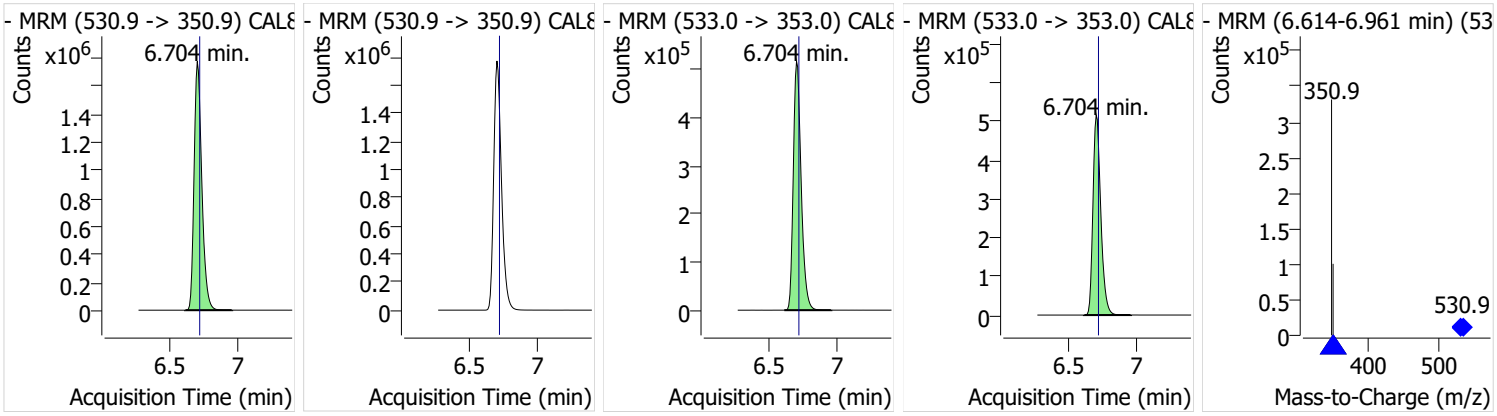


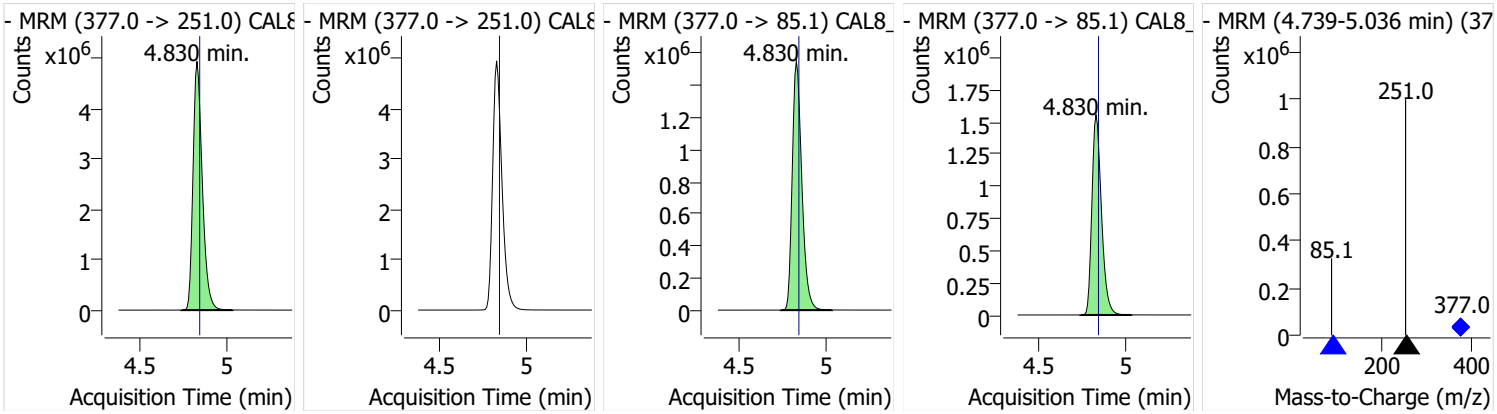
8:2FTS



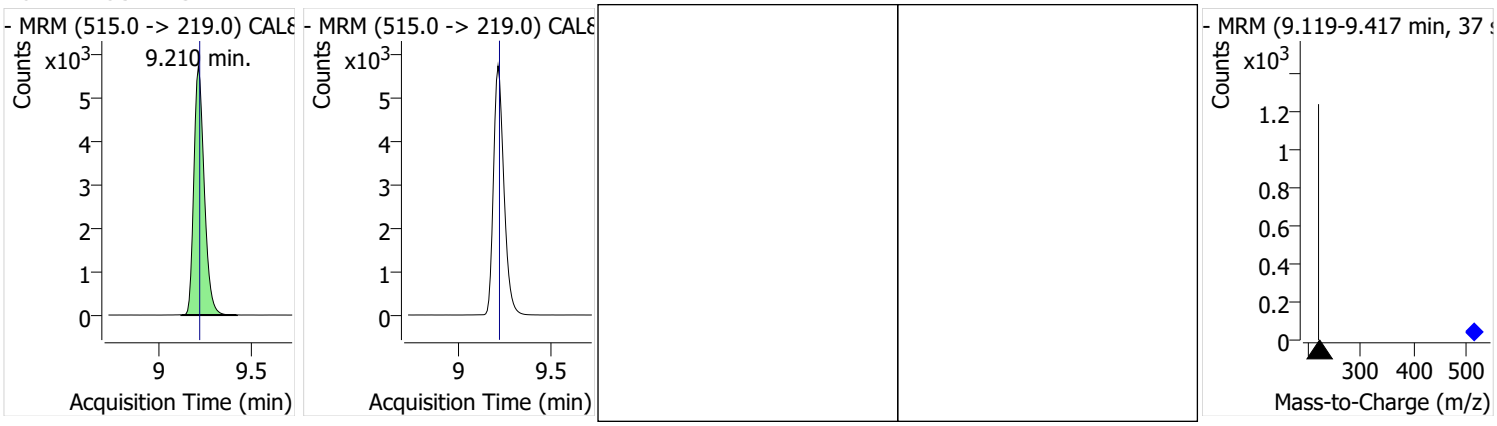
9Cl-PF3ONS



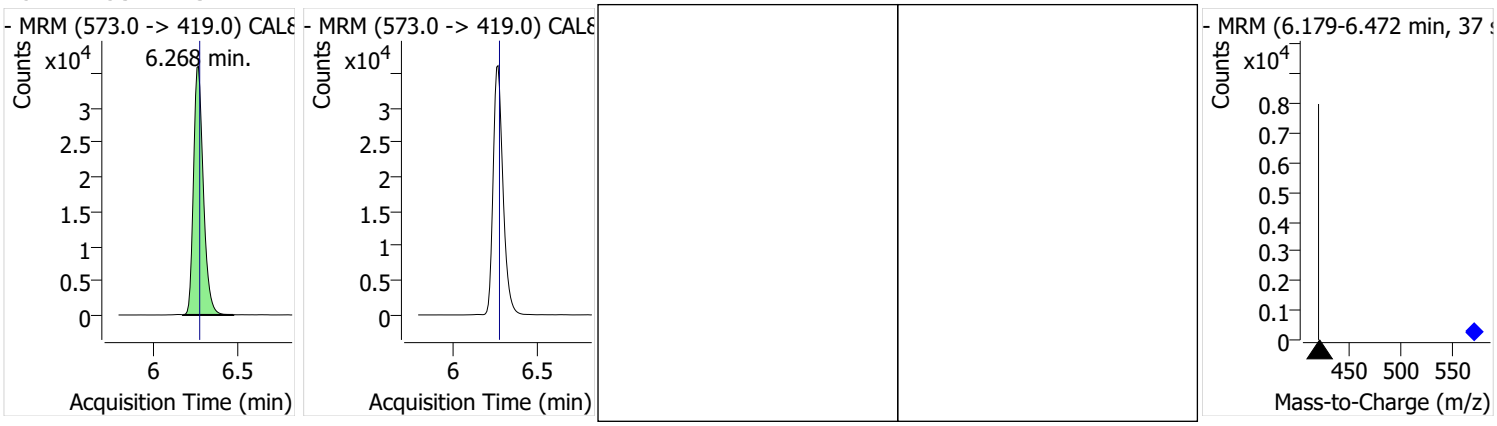
ADONA



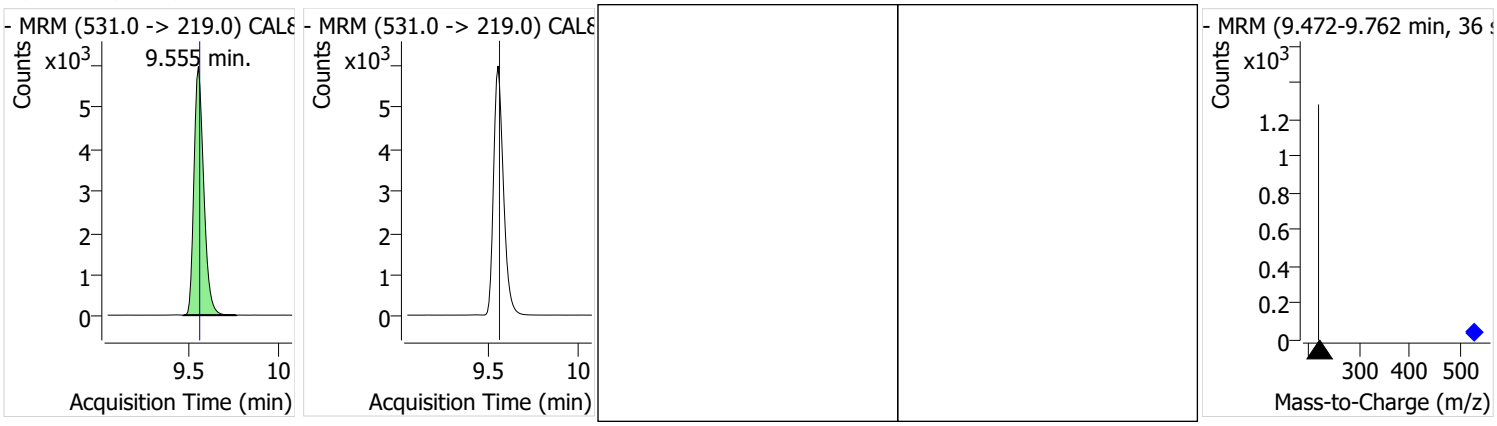
D3-NMeFOSA - ISTD



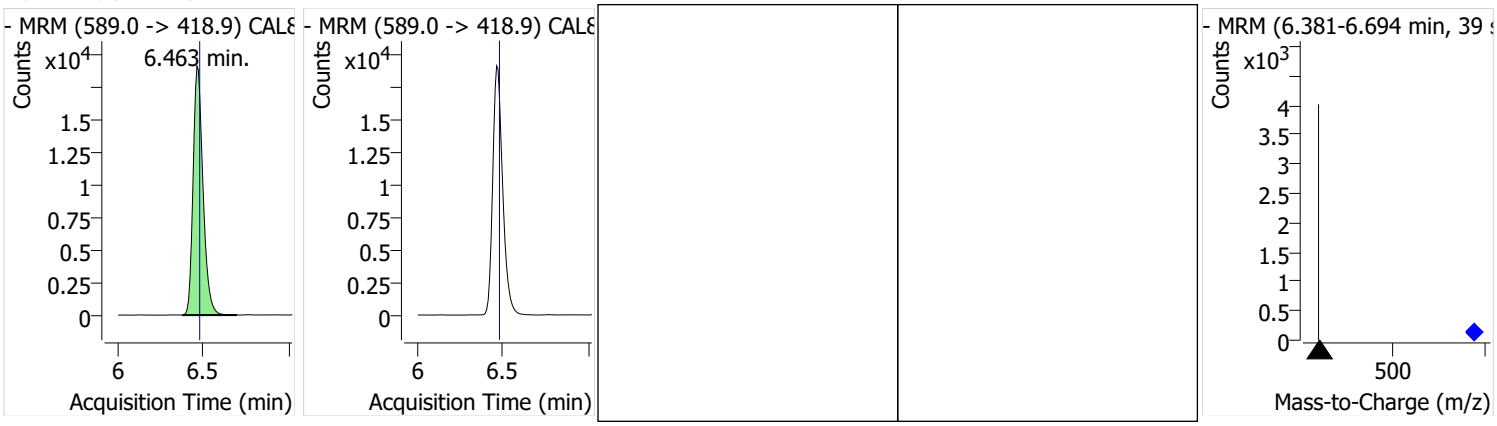
D3-NMeFOSAA - ISTD



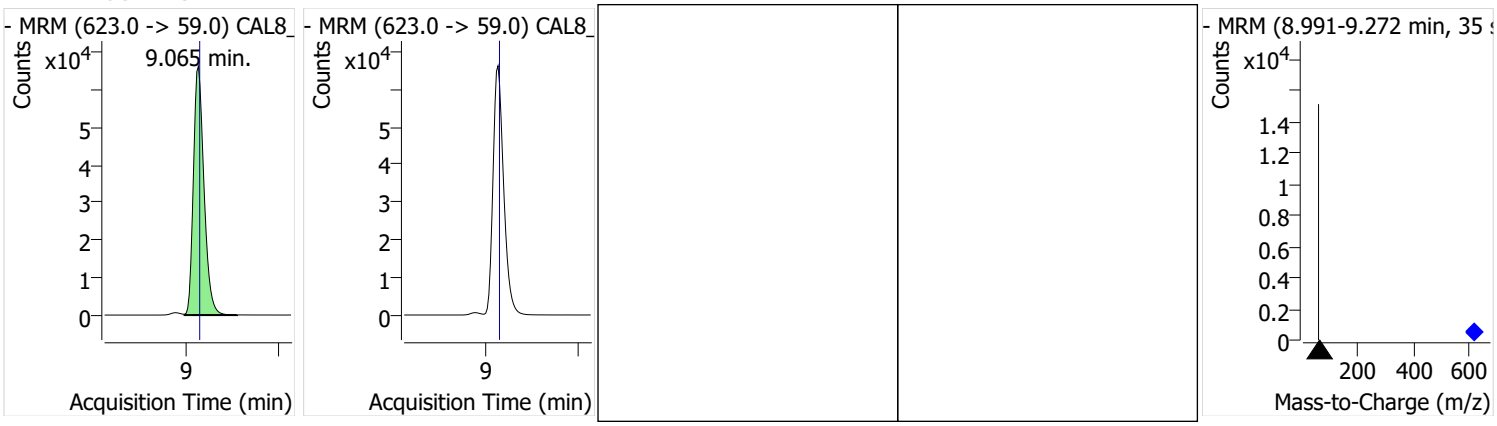
D5-NEtFOSA - ISTD



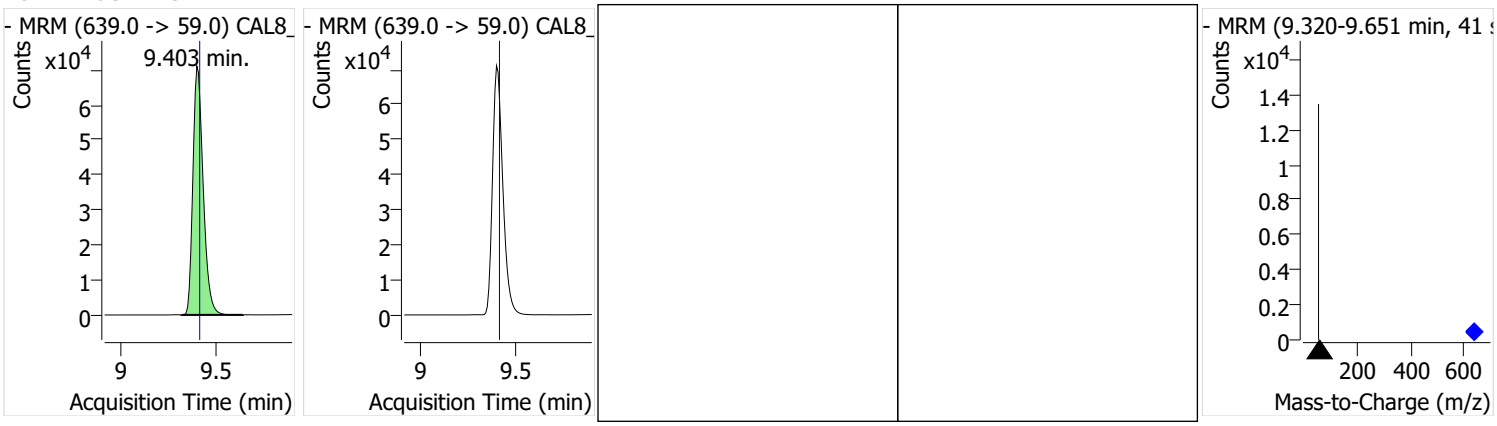
D5-NEtFOSAA - ISTD



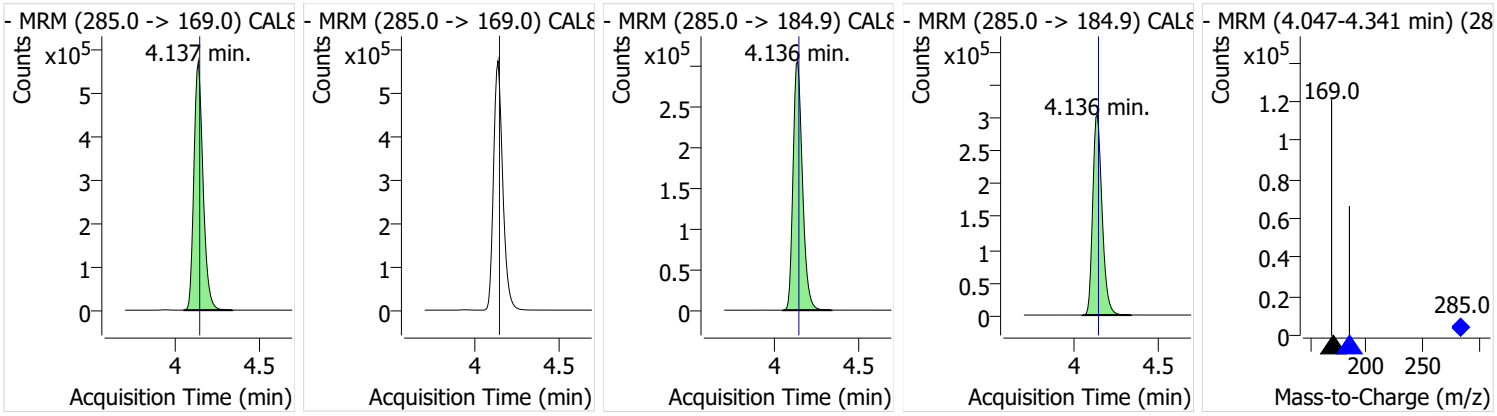
D7-NMeFOSE - ISTD



D9-NEtFOSE - ISTD



HFPO-DA



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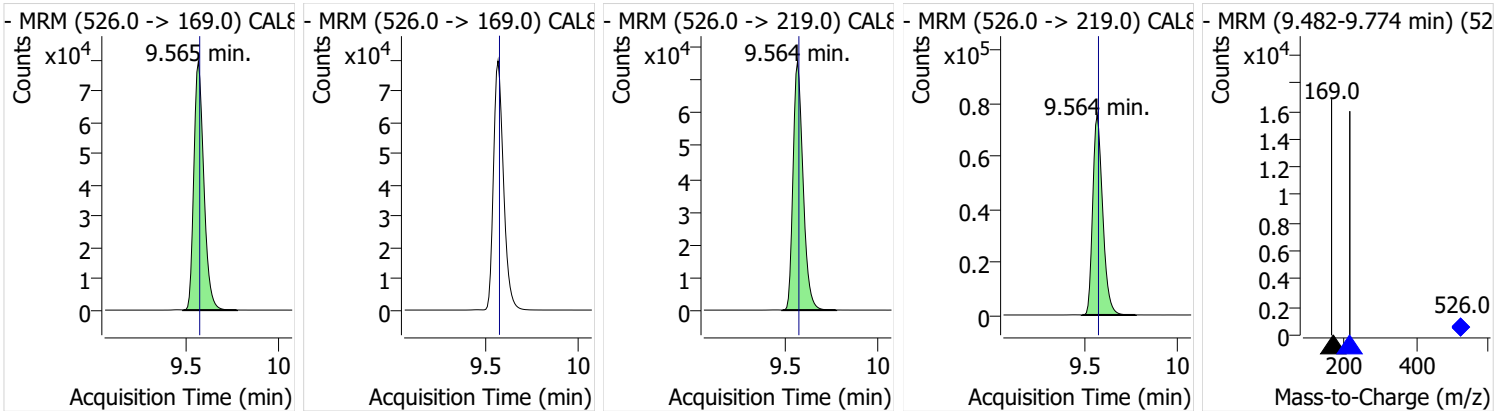

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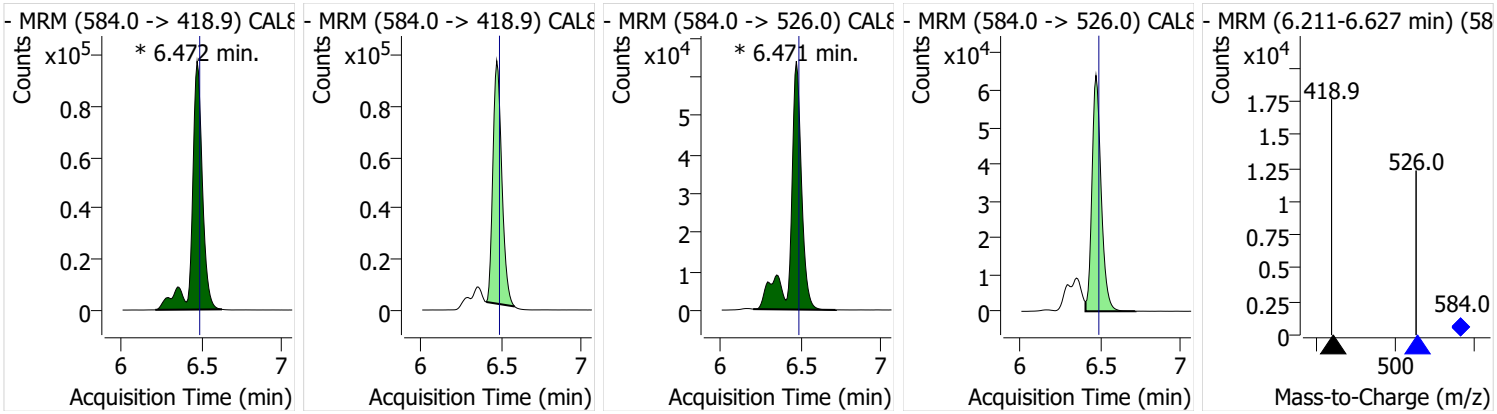

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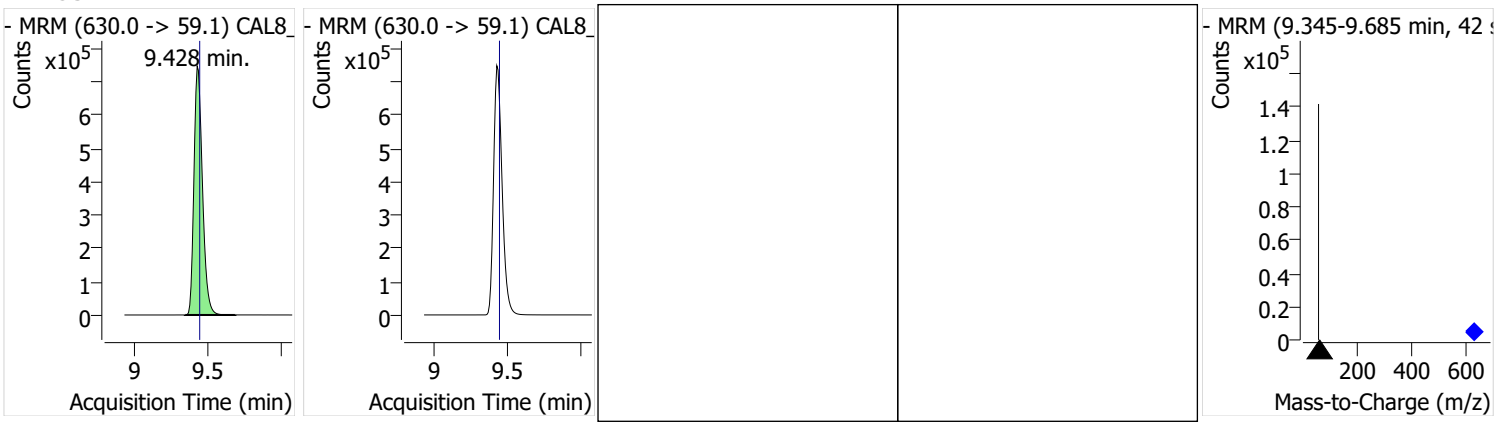

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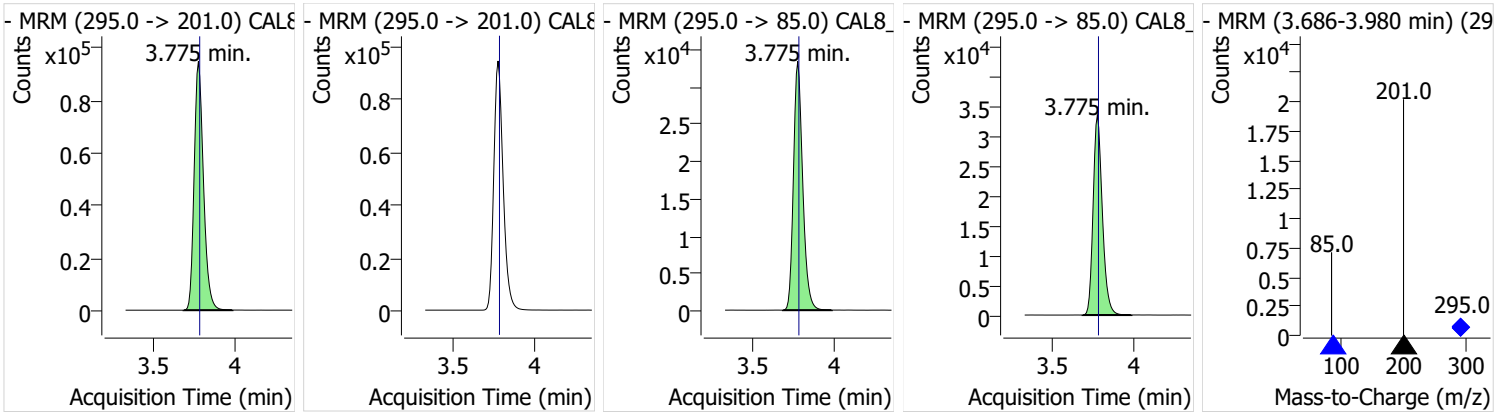

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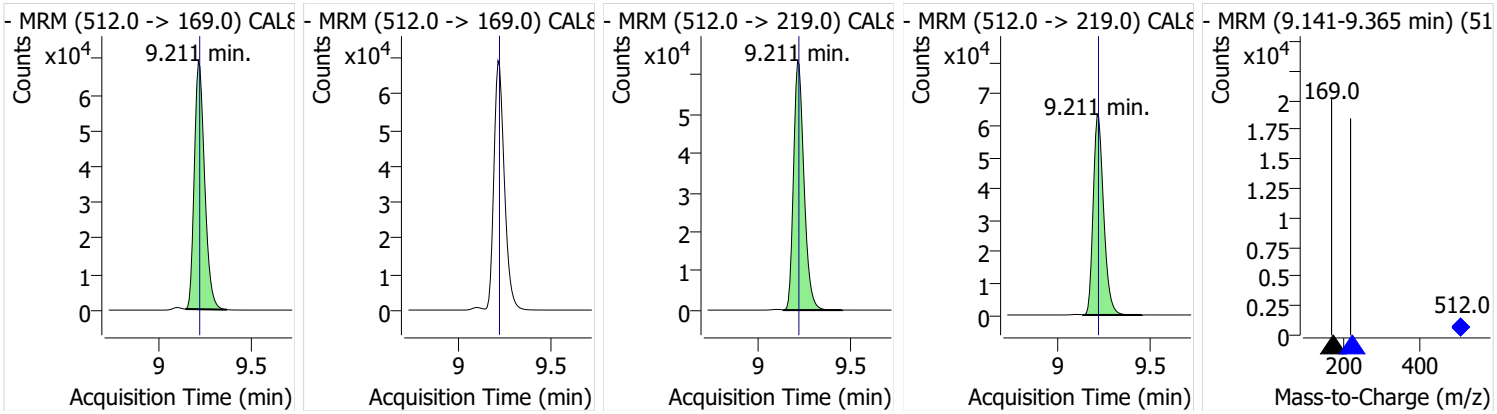

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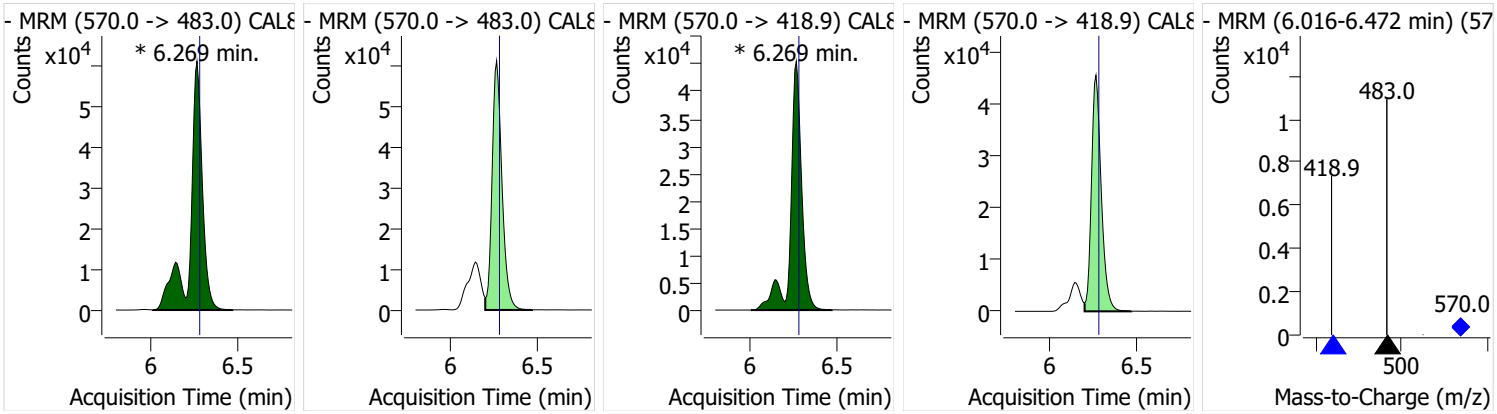

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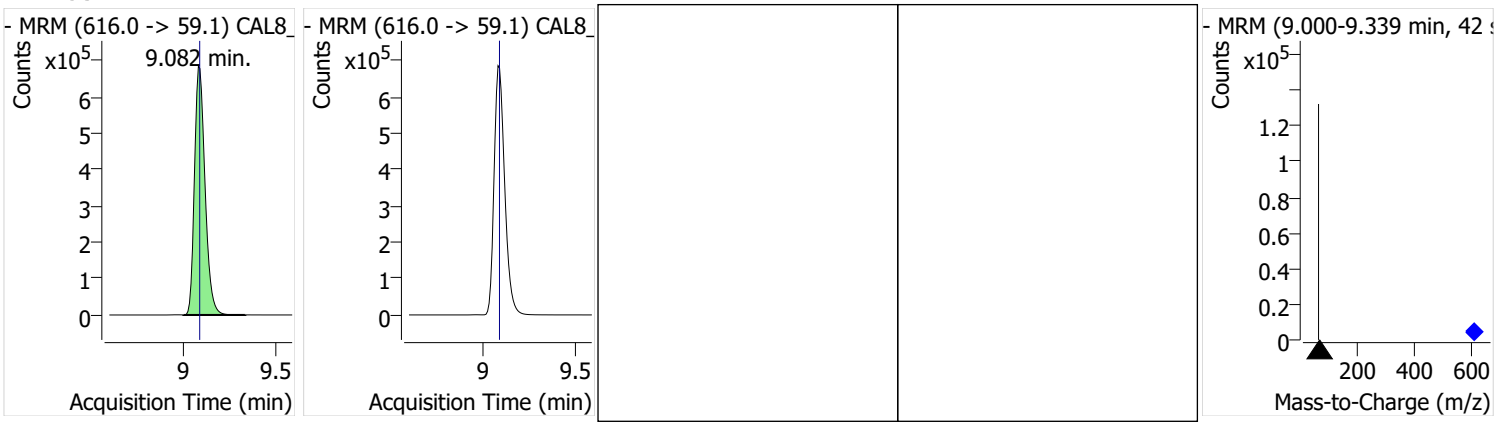
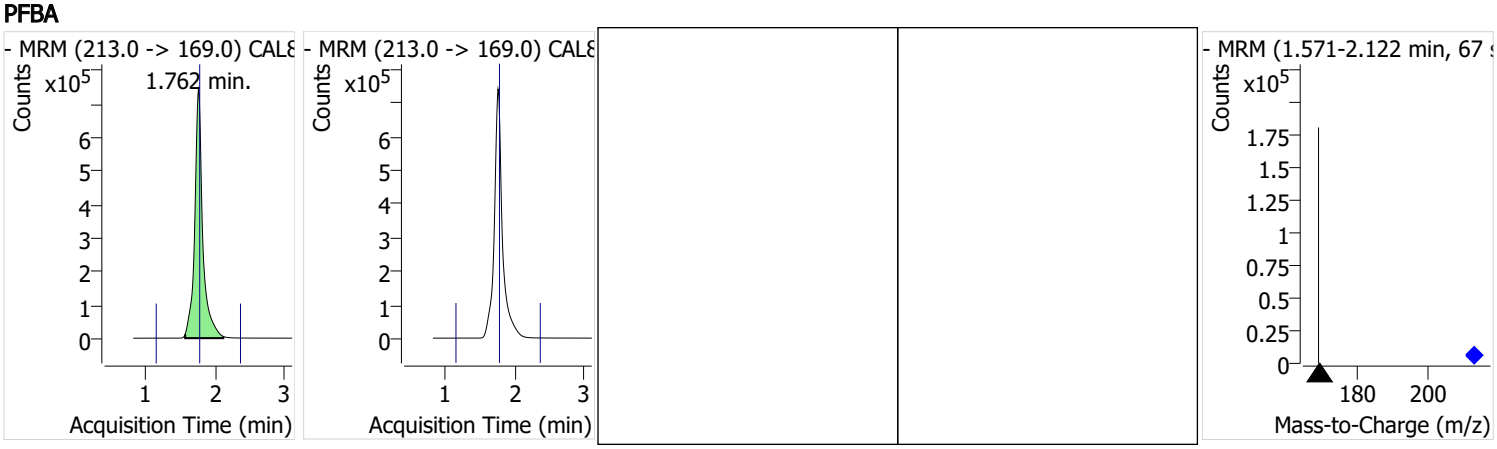
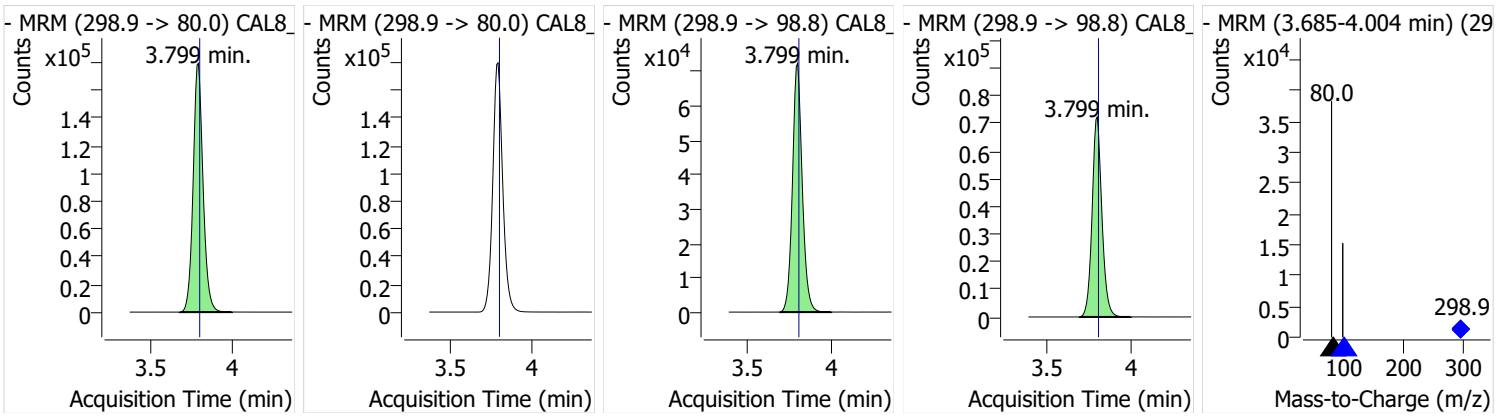


PFBA



PFBS



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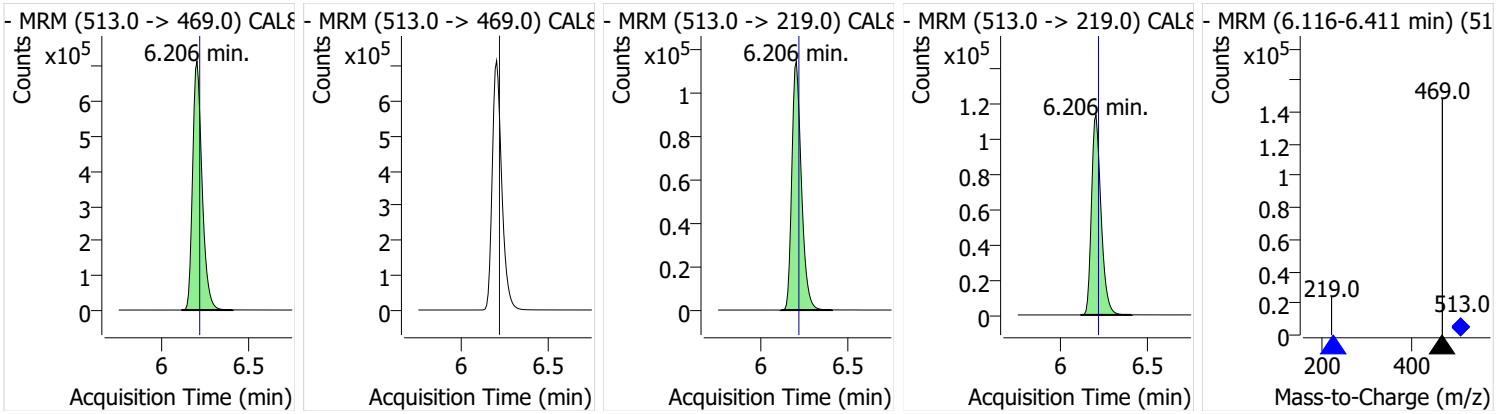

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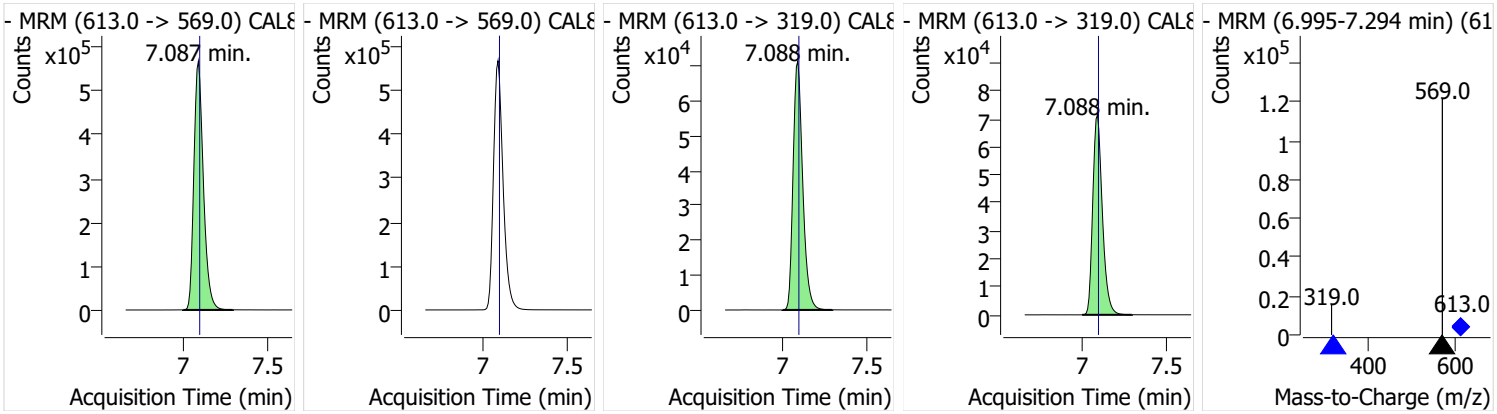

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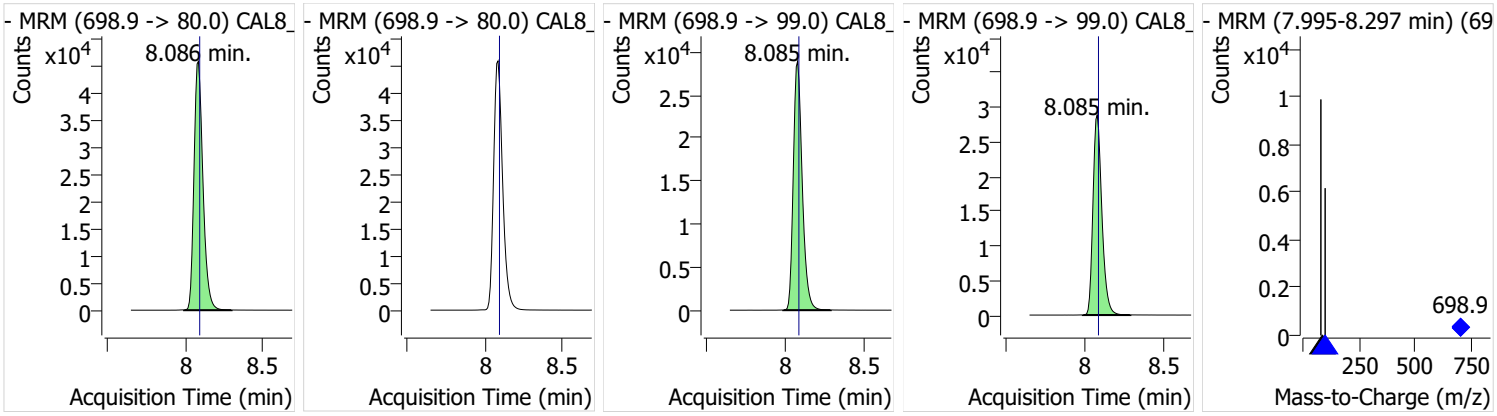

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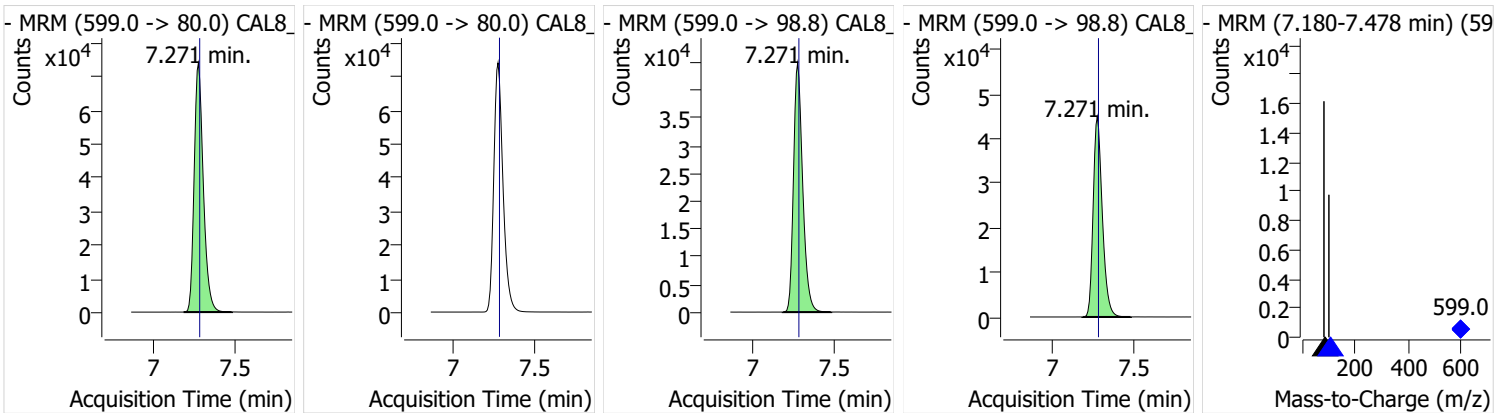

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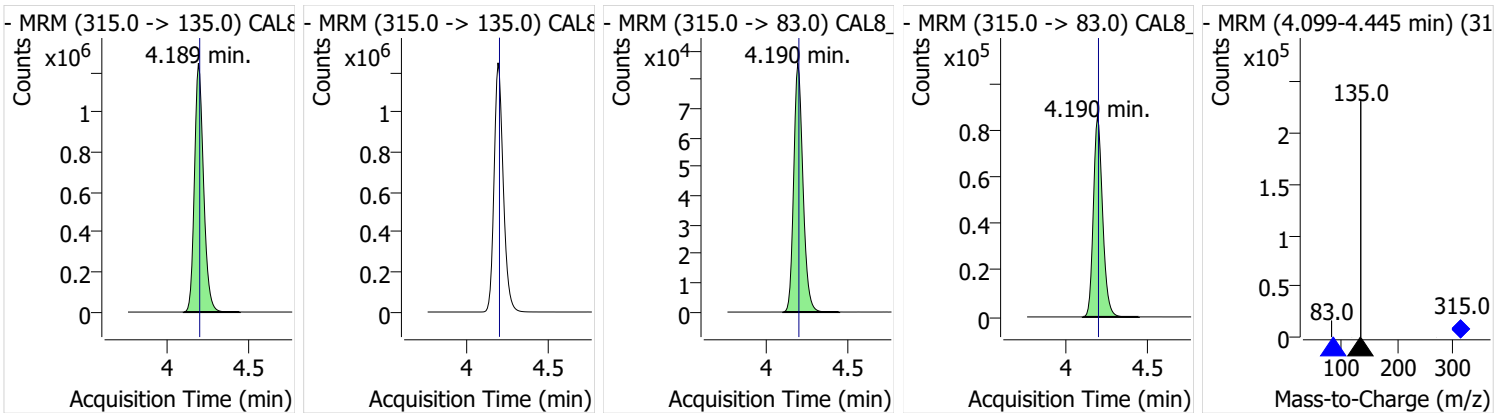
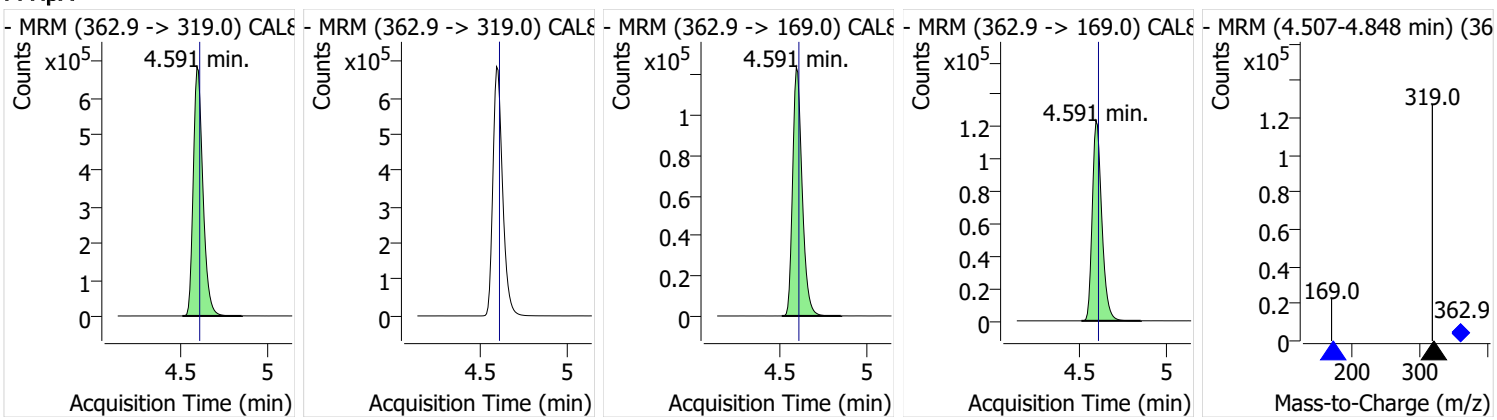


PFHpA



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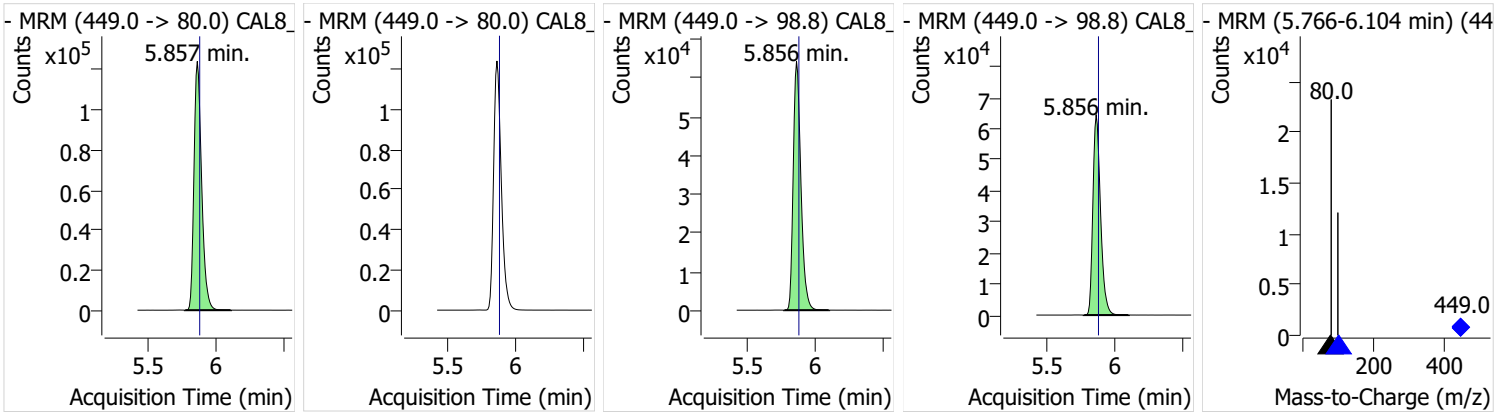

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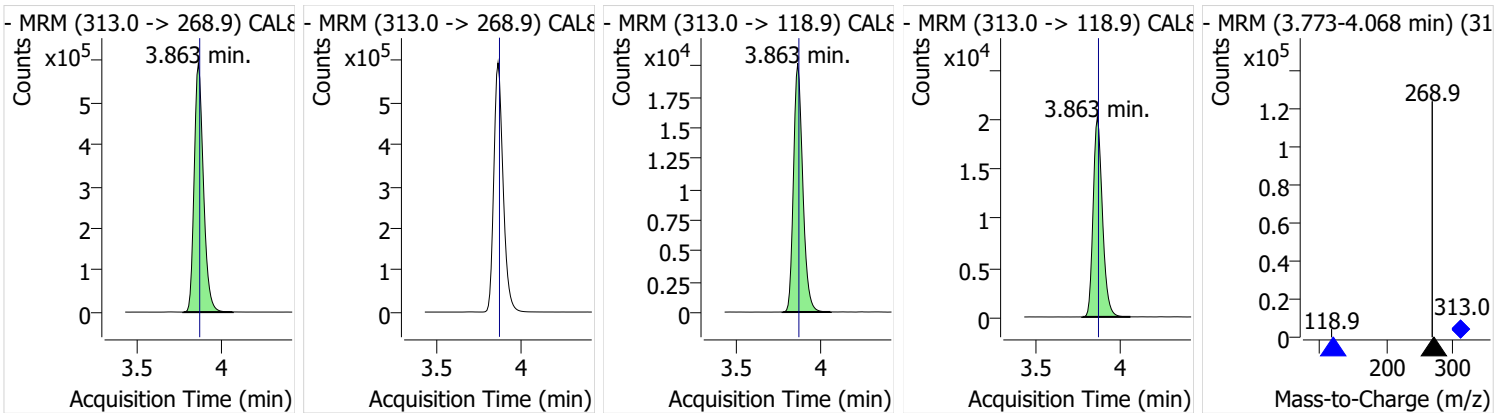

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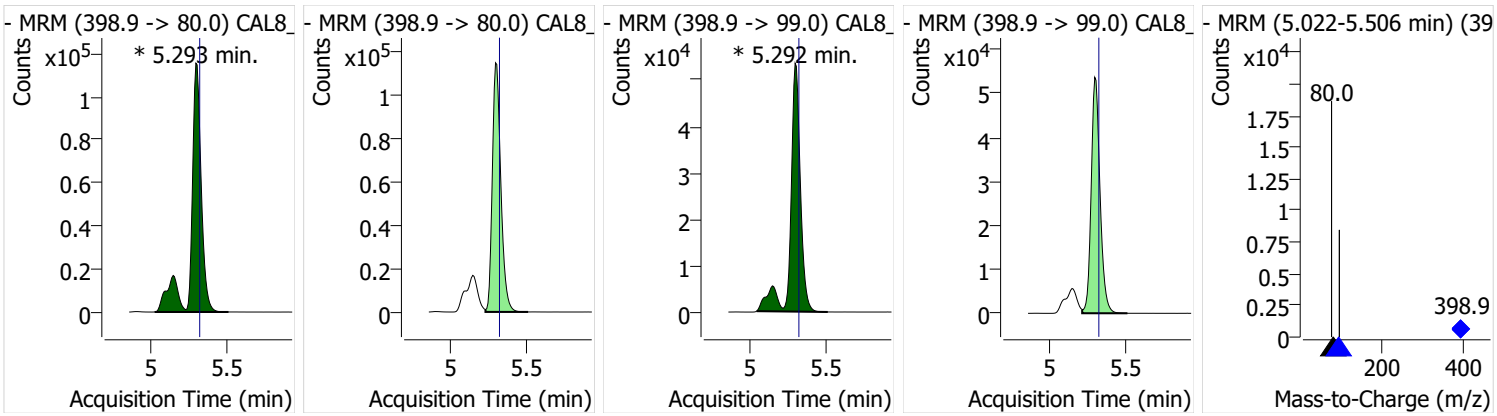

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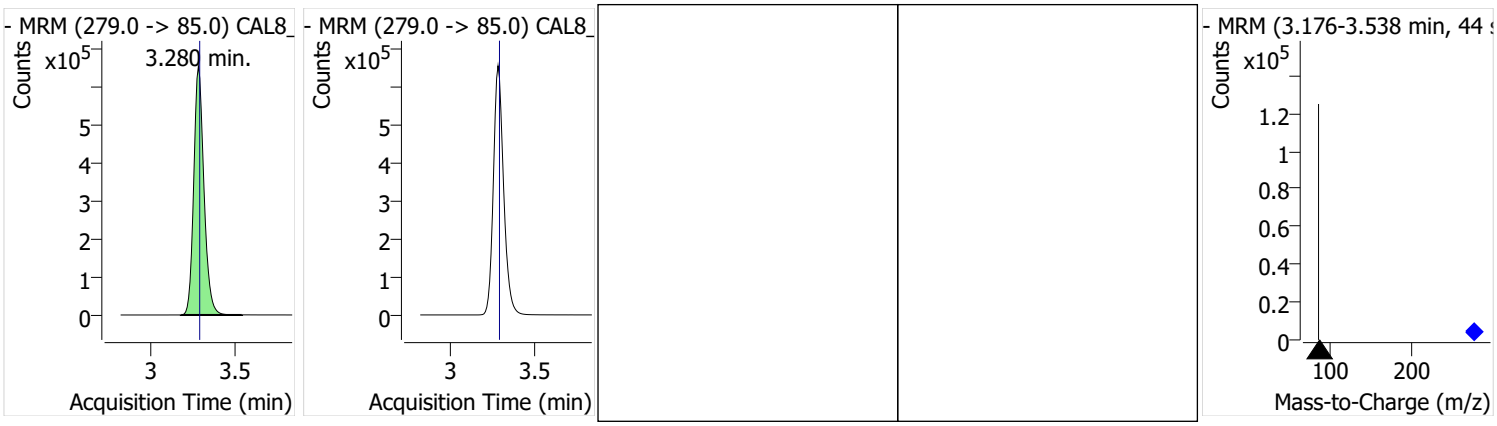

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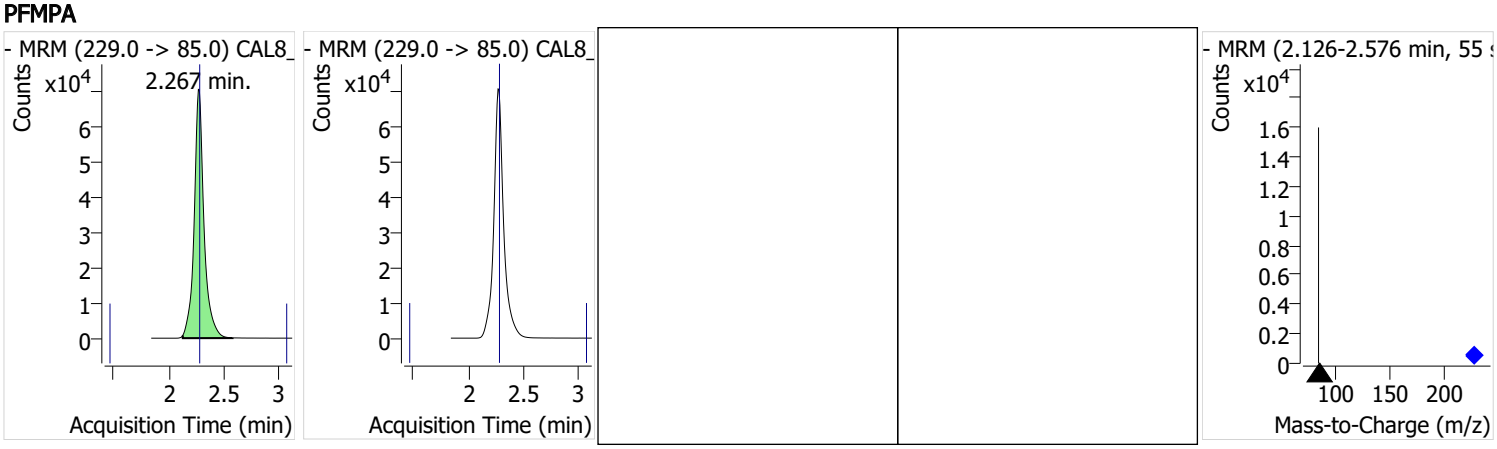

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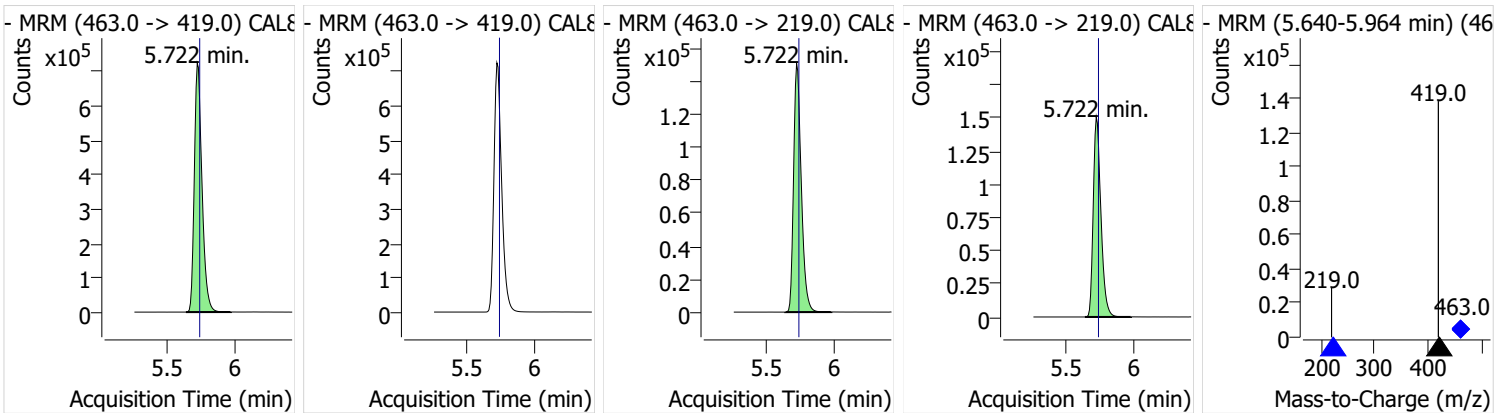
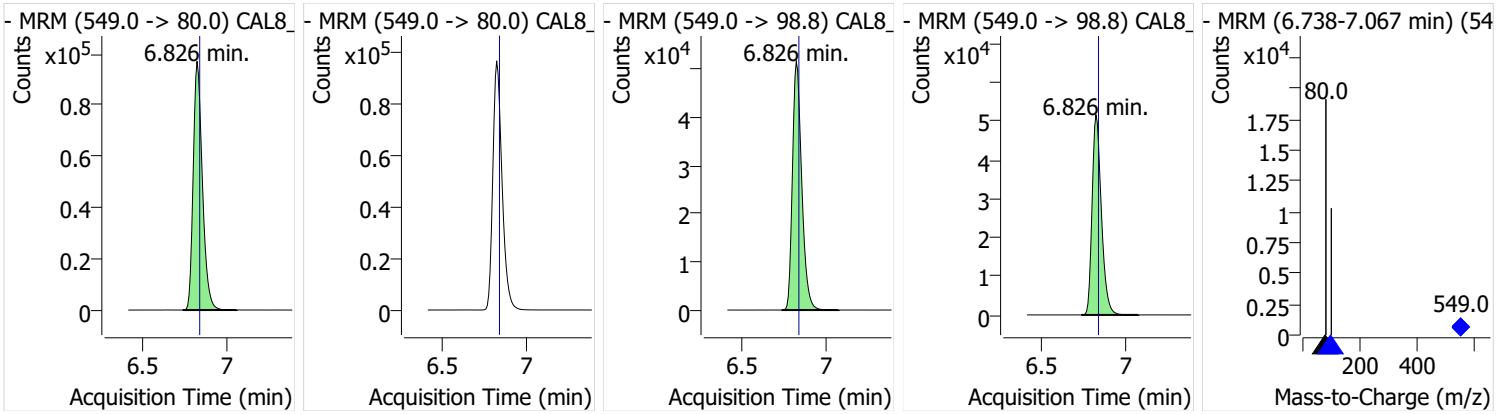


PFNS



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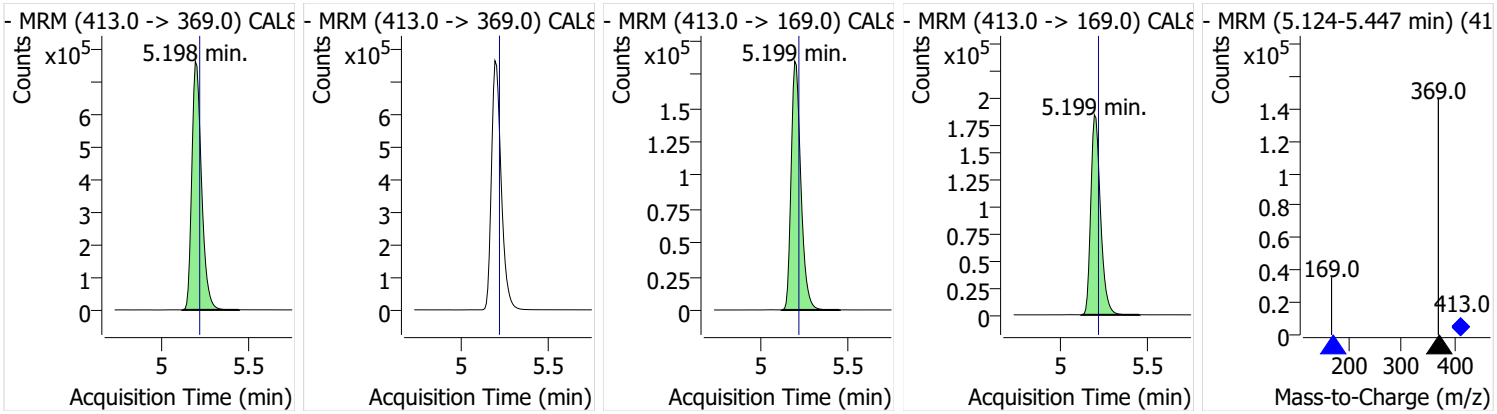

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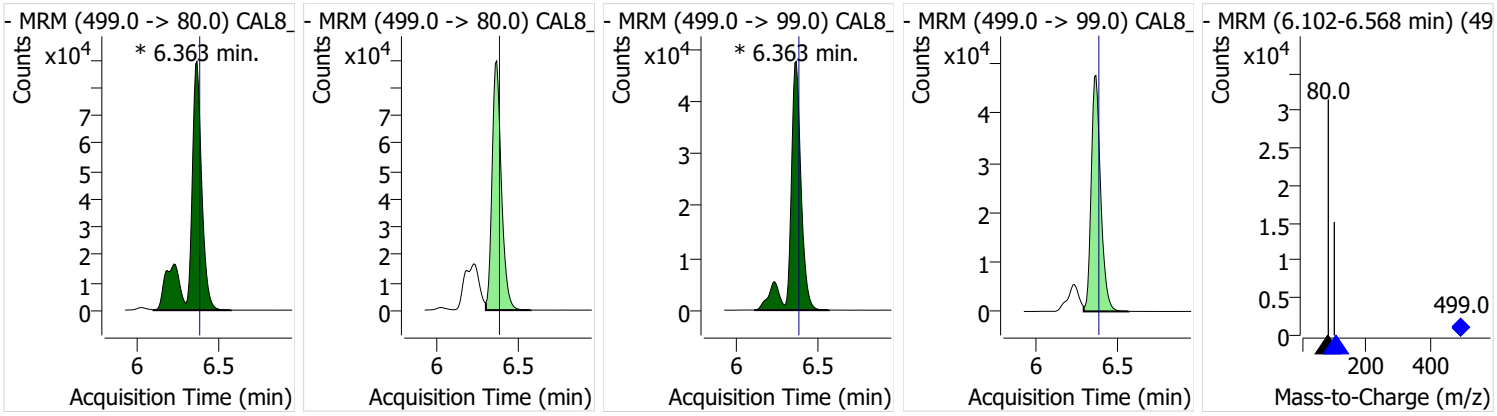

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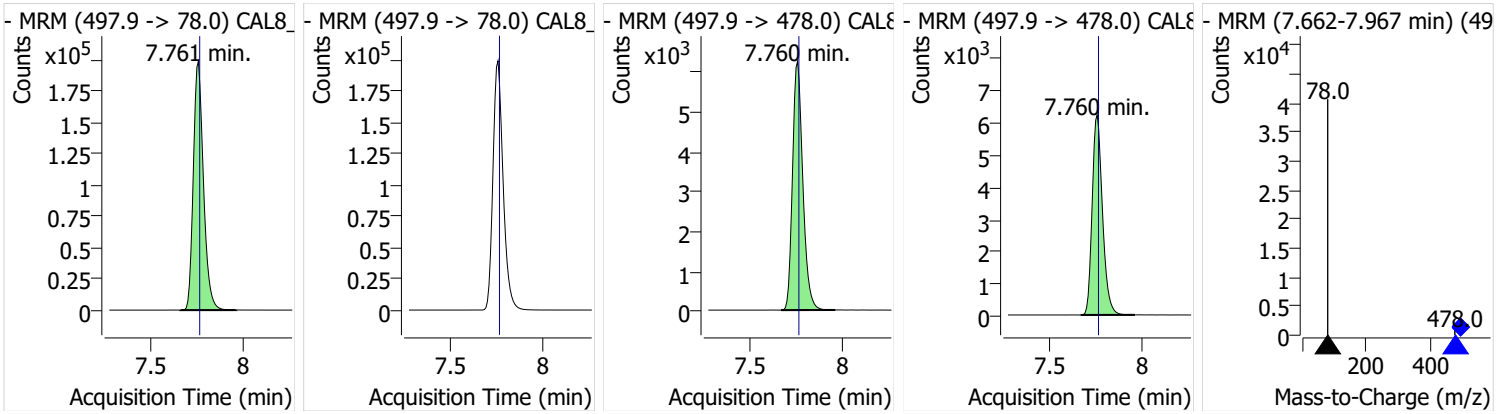
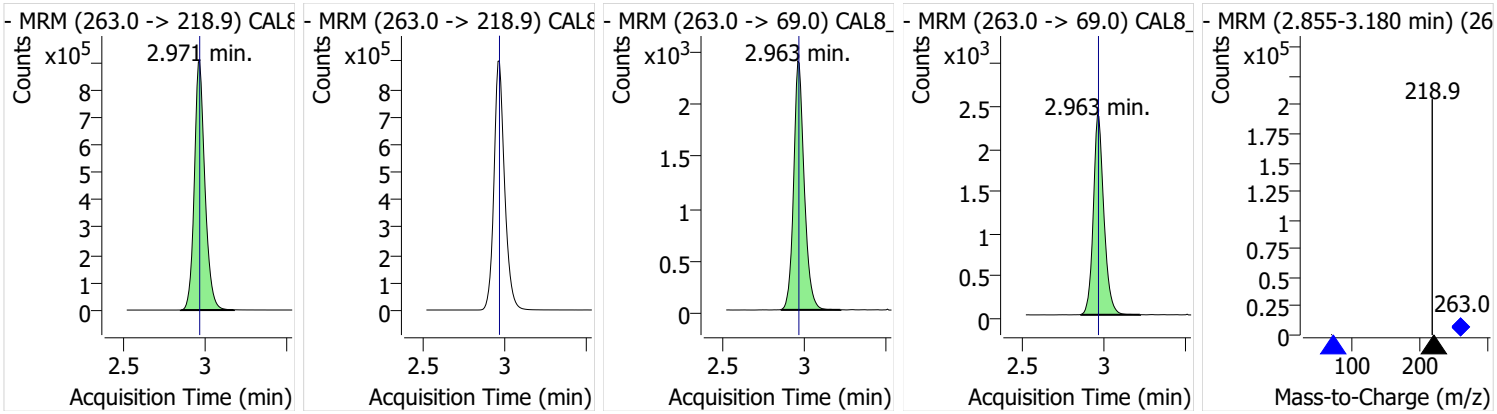


PFPeA



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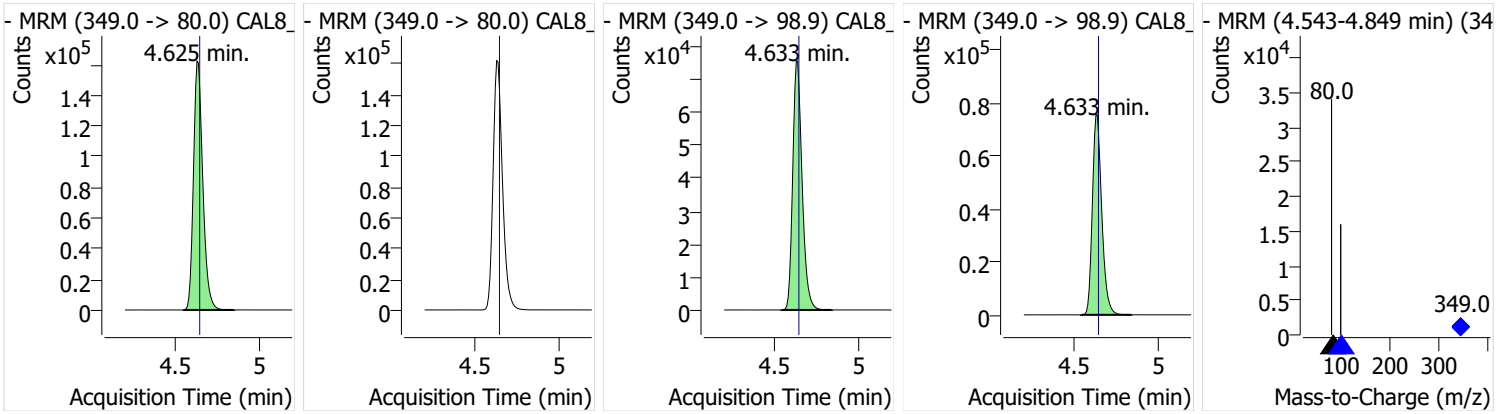

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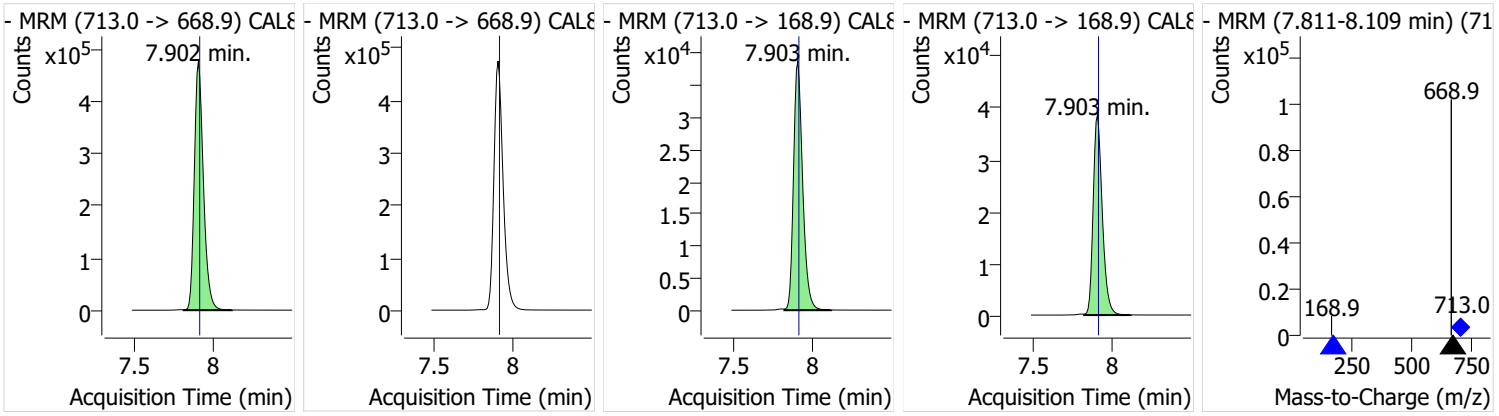
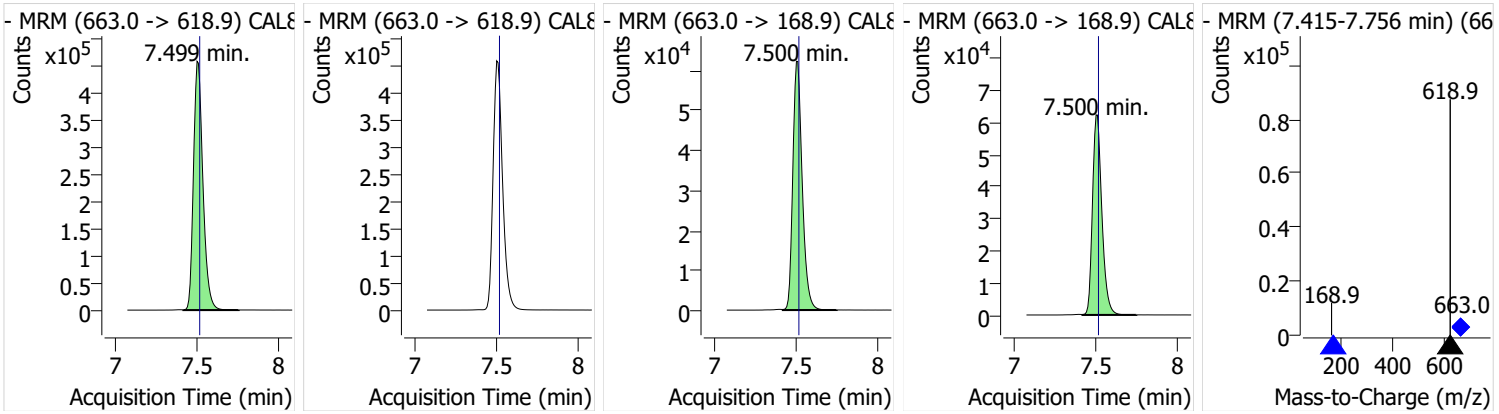
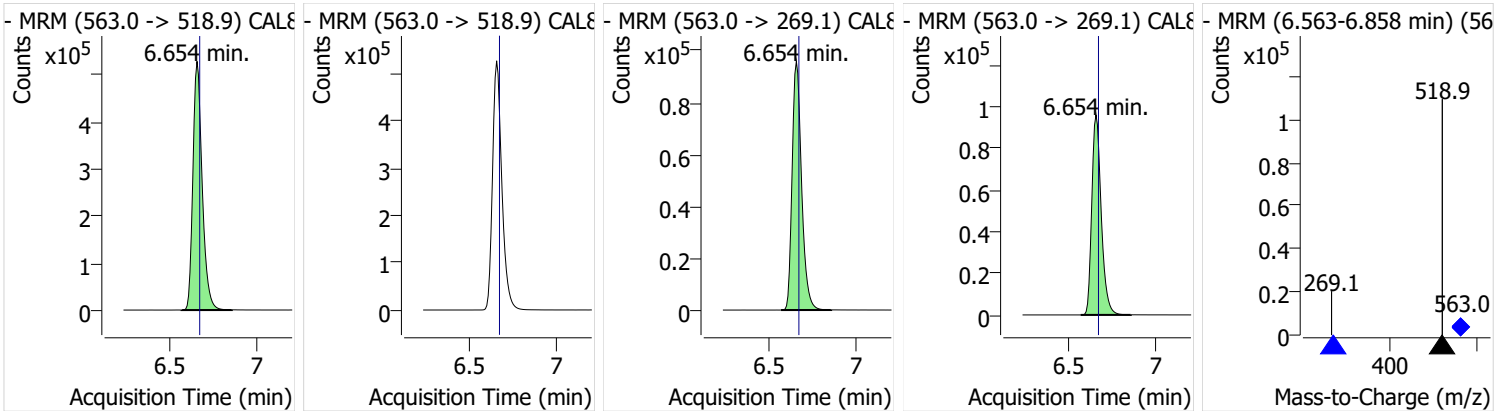


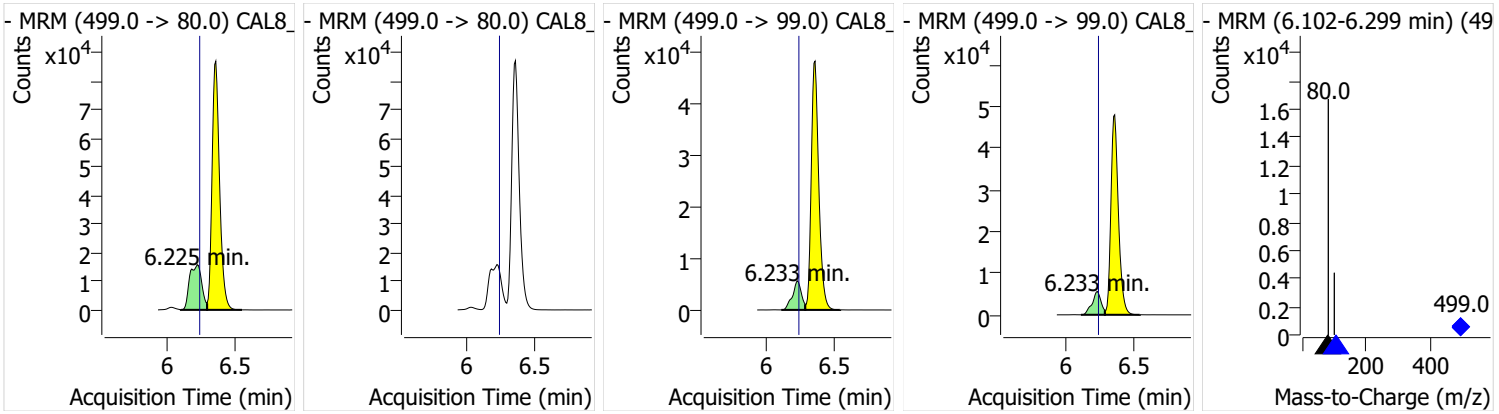
PFTrDA



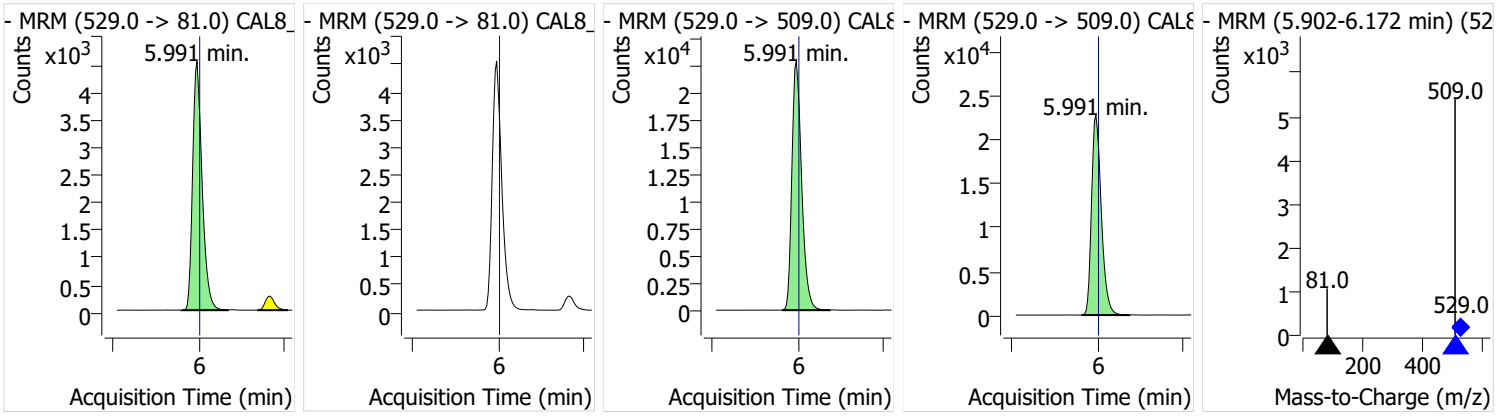
PFUnA



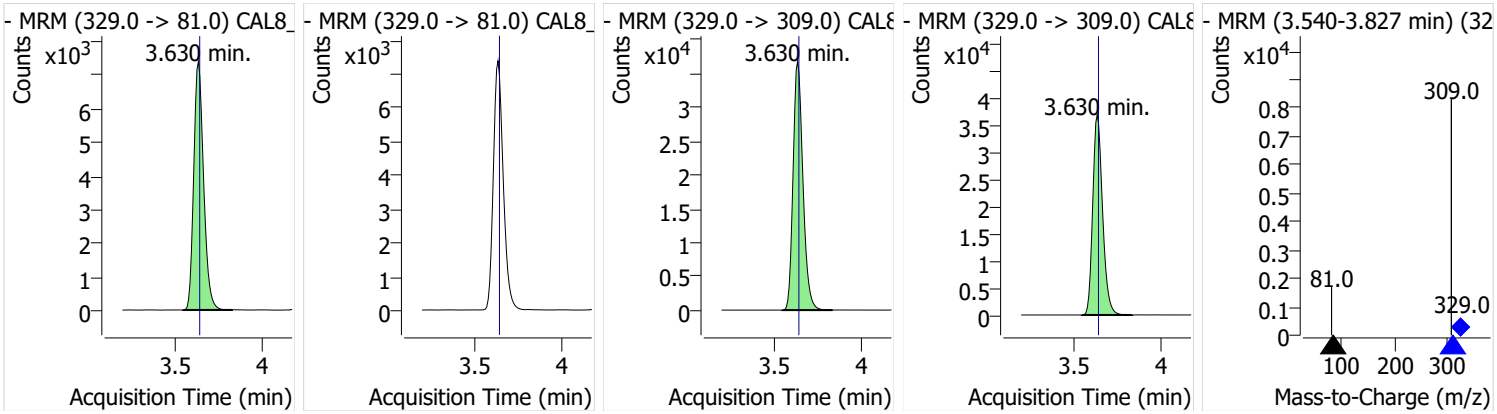
TDCA



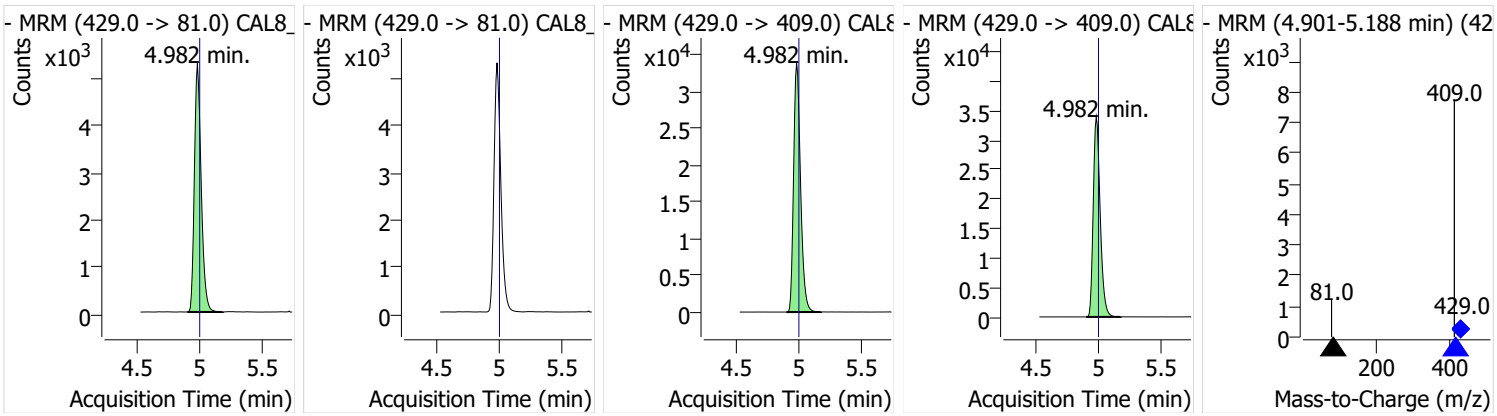
13C2-8:2FTS



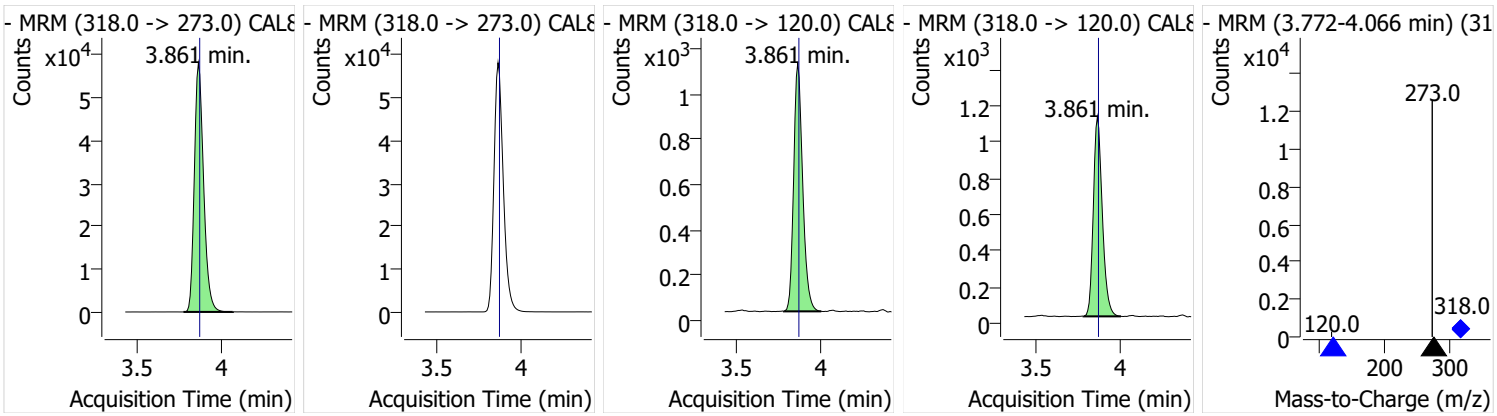
13C2-4:2FTS



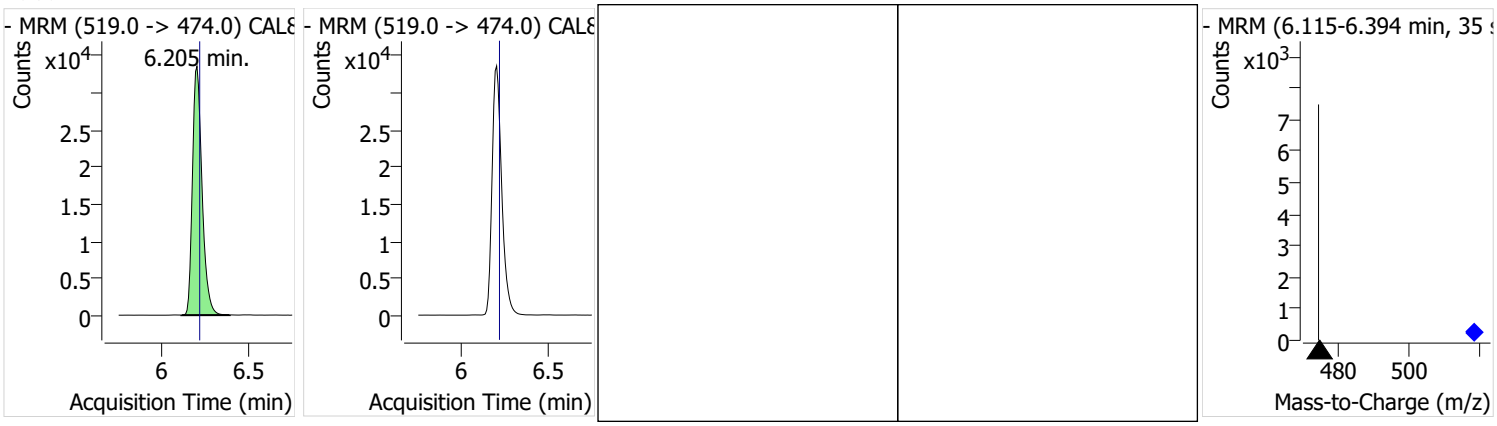
13C2-6:2FTS



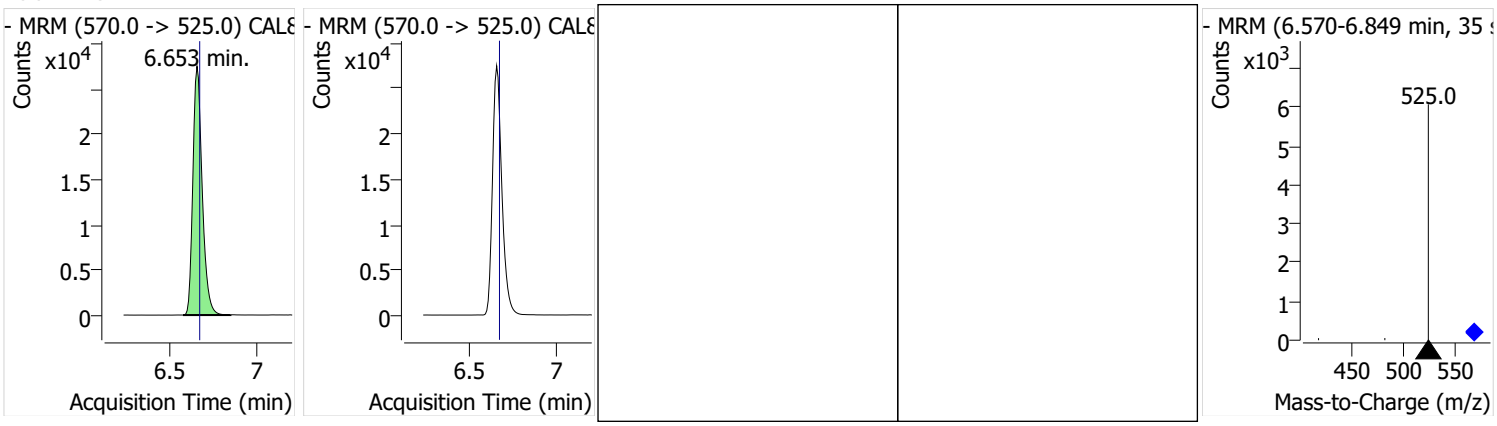
13C5-PFHxA



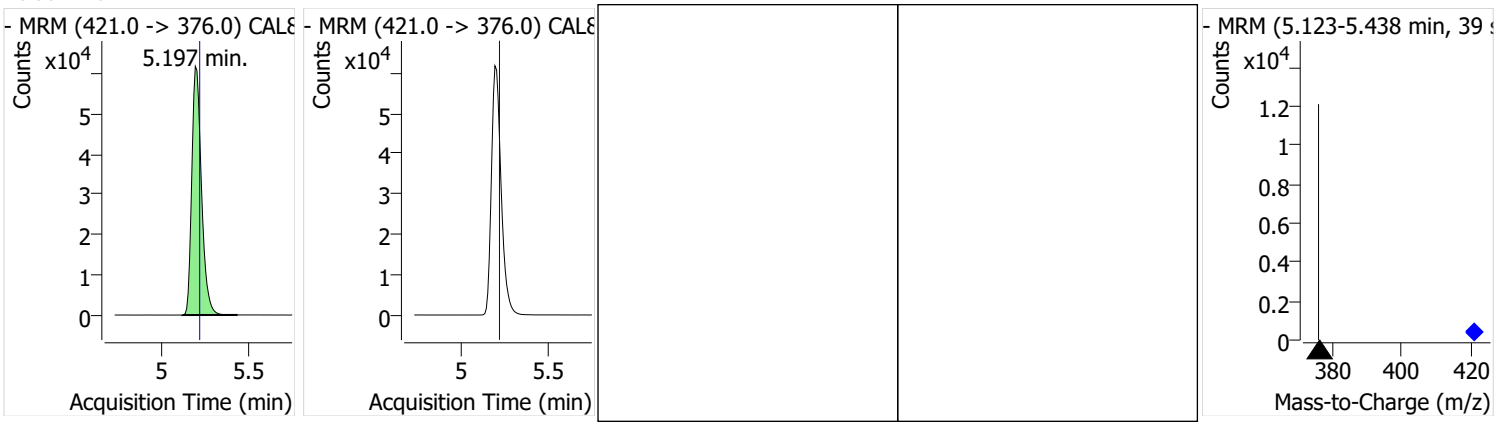
13C6-PFDA



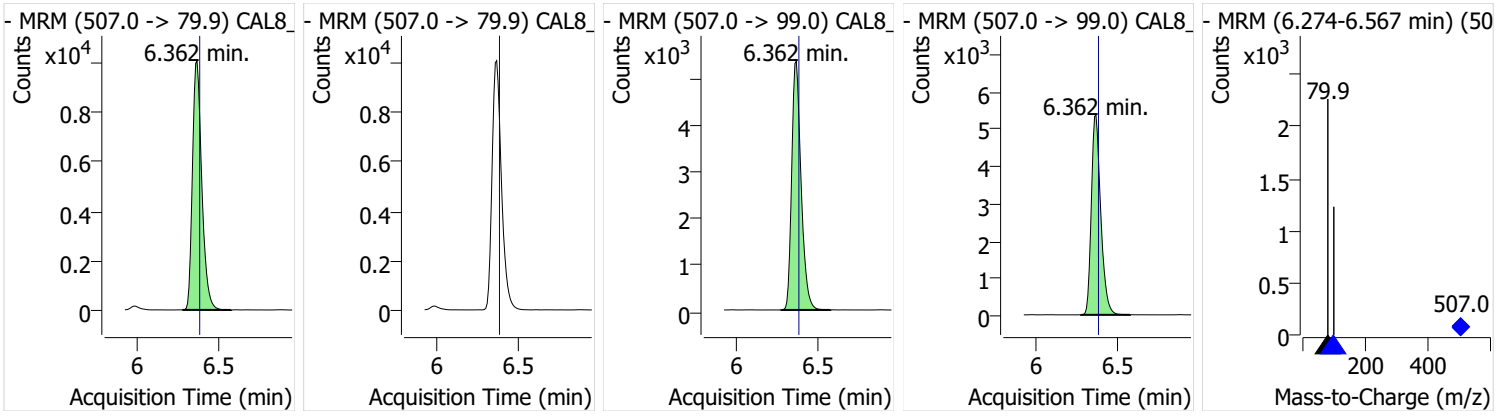
13C7-PFUnA



13C8-PFOA



13C8-PFOS



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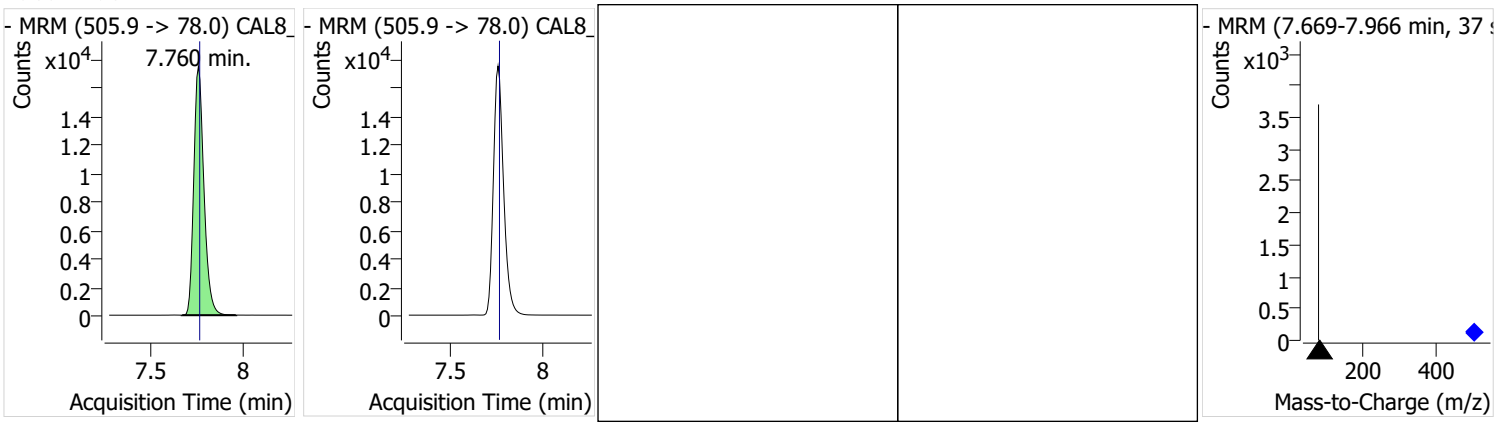
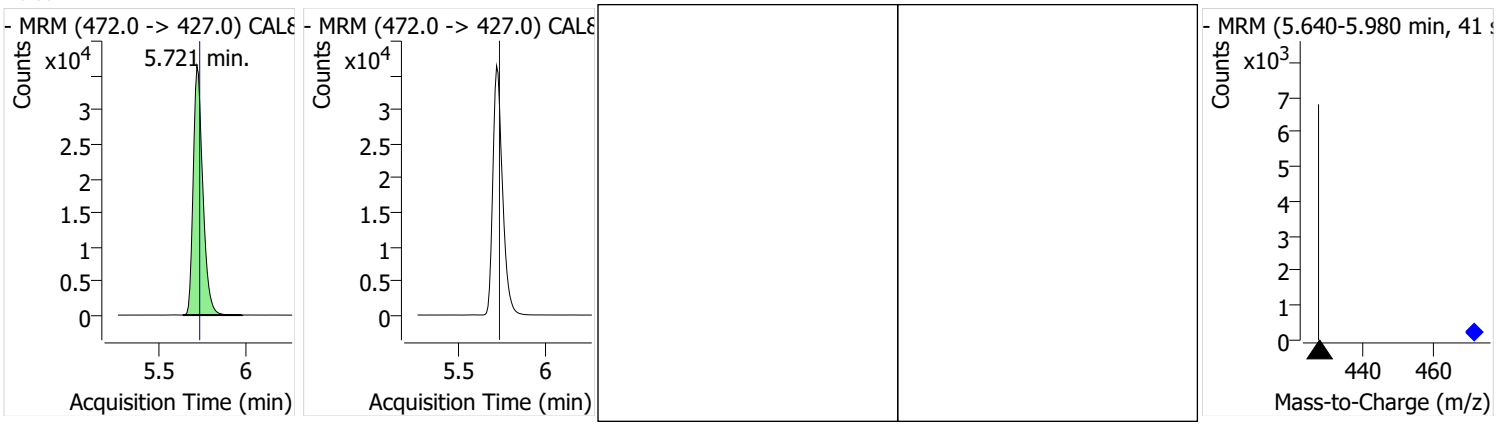
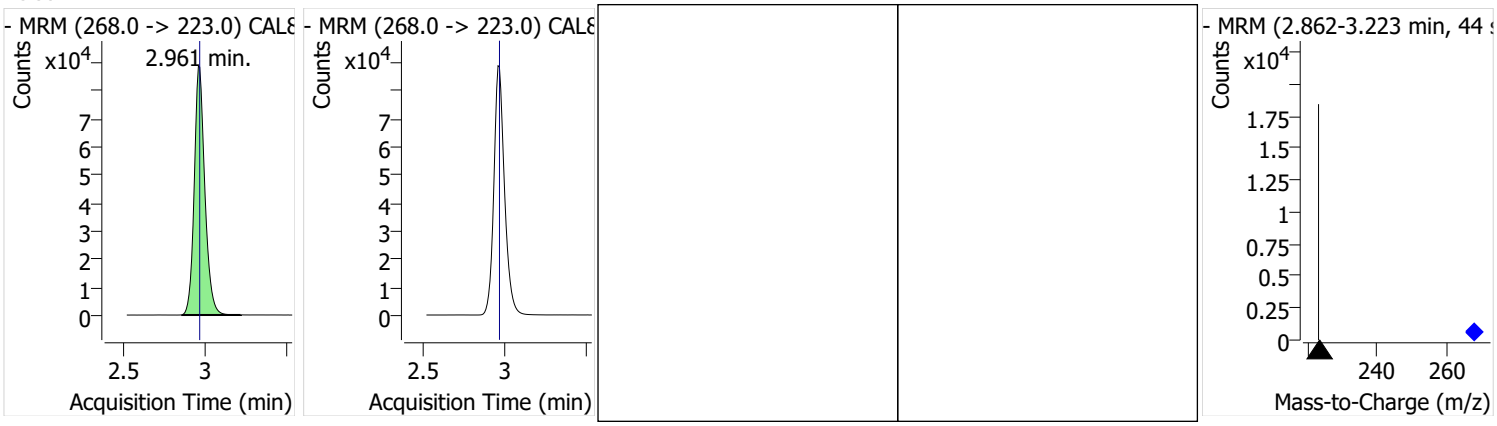


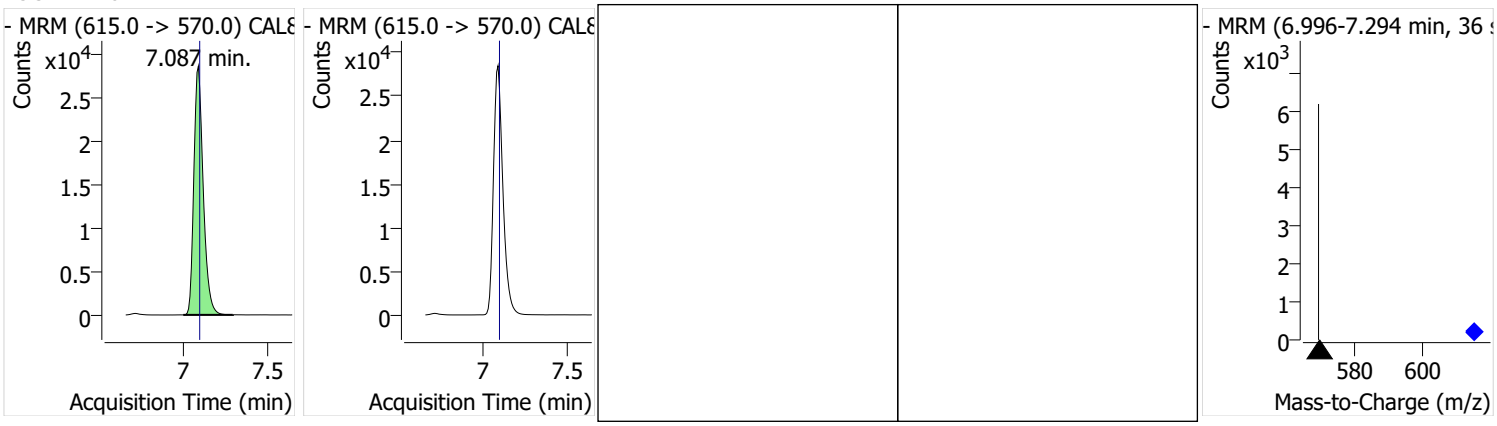
13C9-PFNA



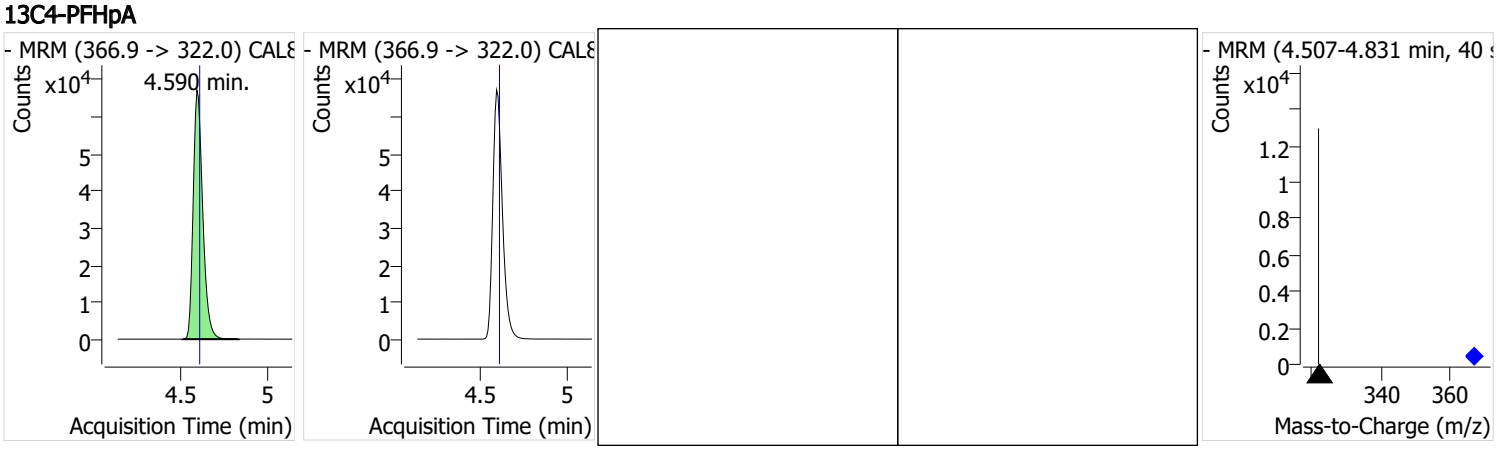
13C5-PFPeA



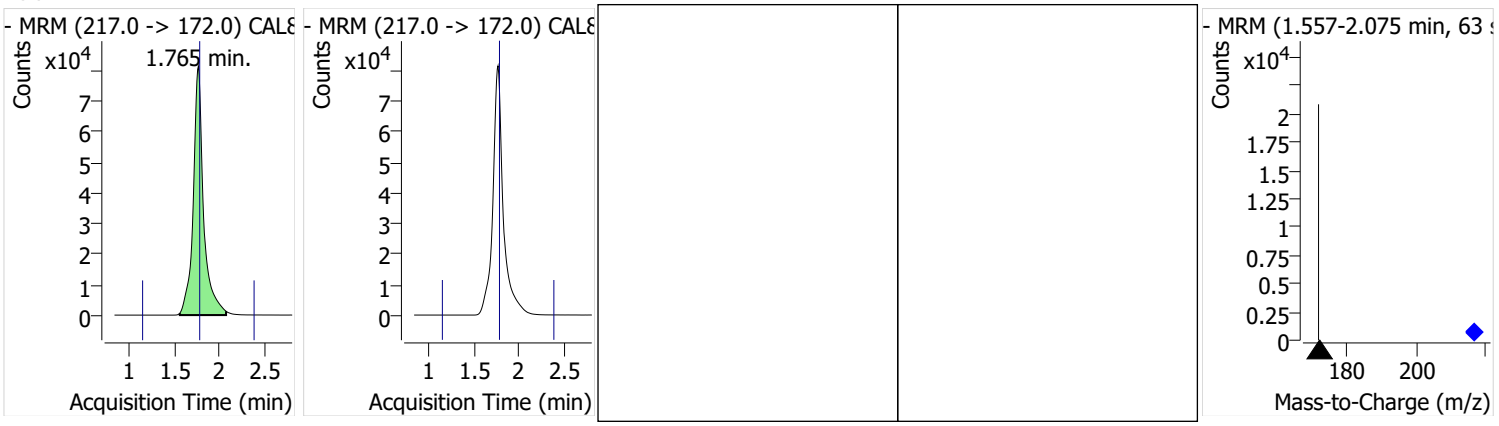
13C2-PFDoA



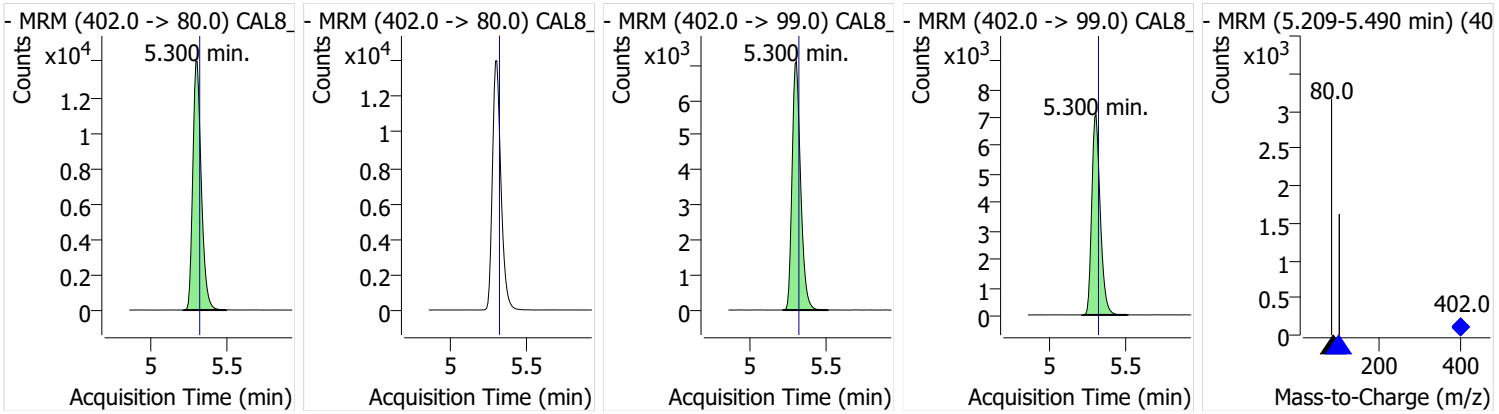
13C4-PFHpA



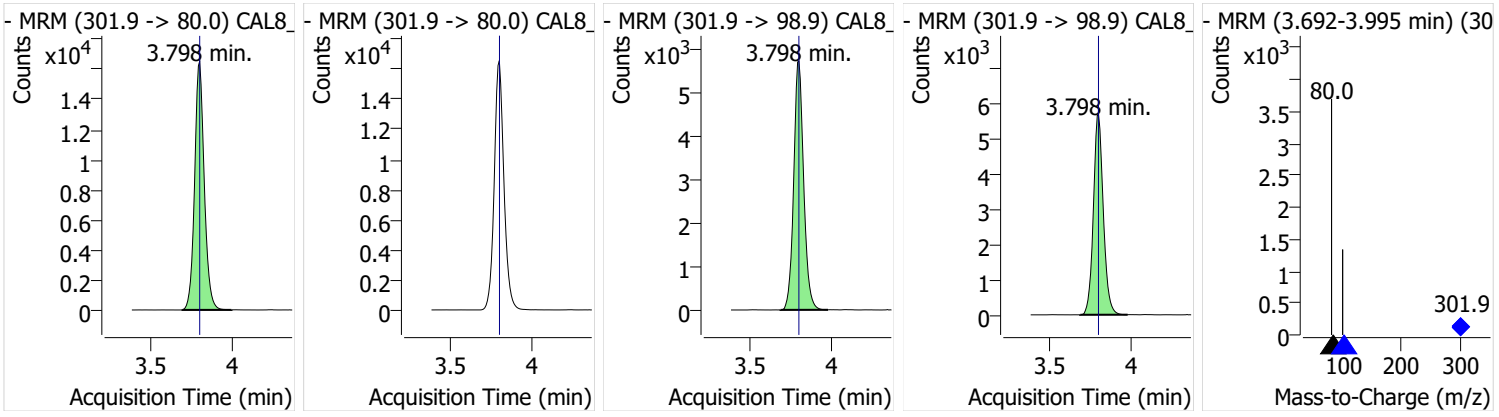
13C4-PFBA



13C3-PFHxS



13C3-PFBS



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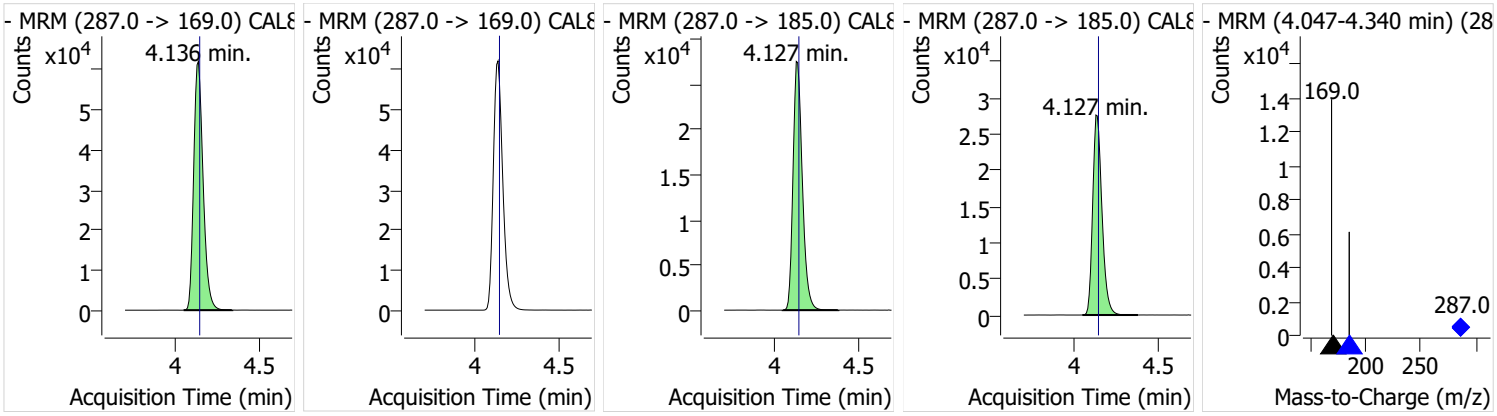
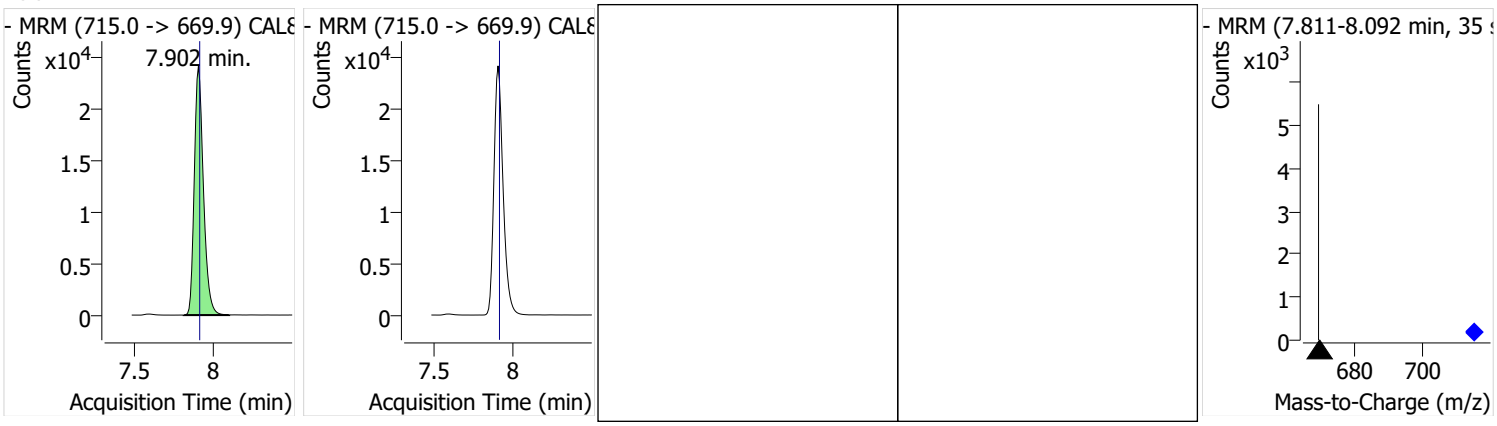
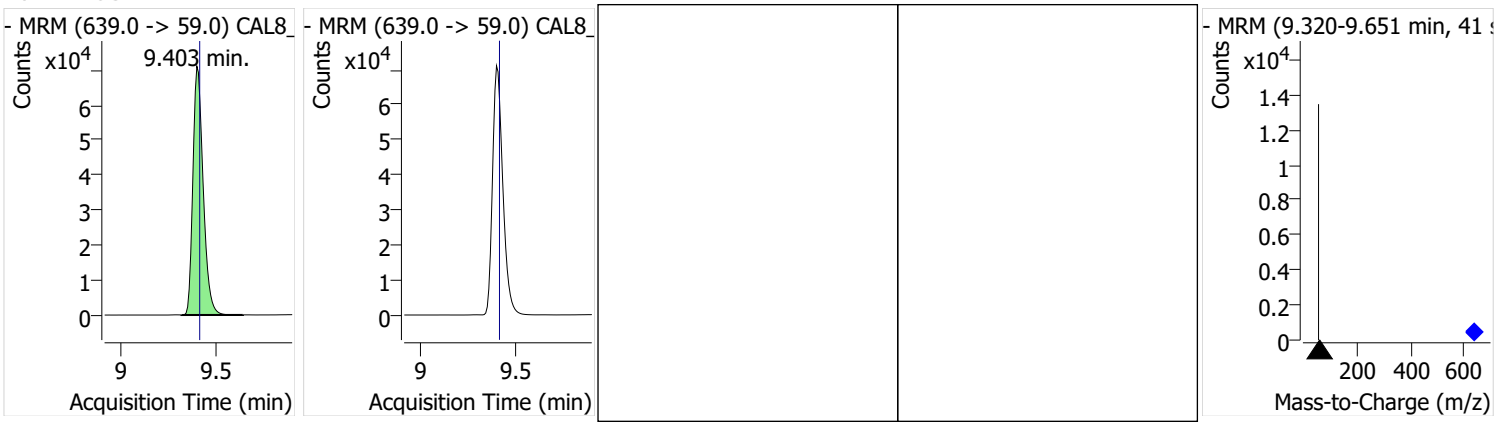


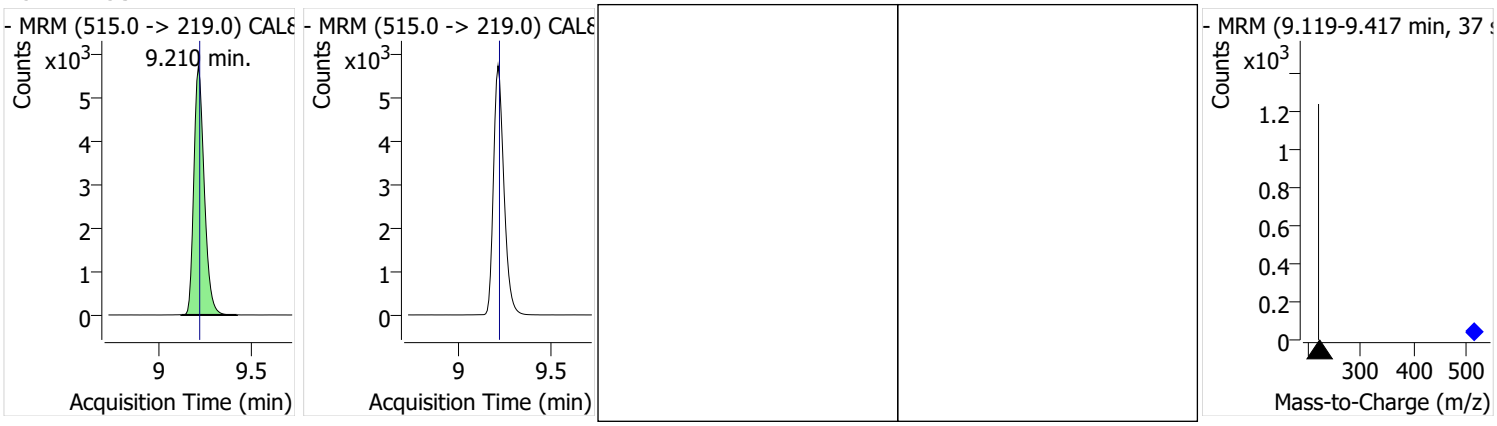
13C2-PFTeDA



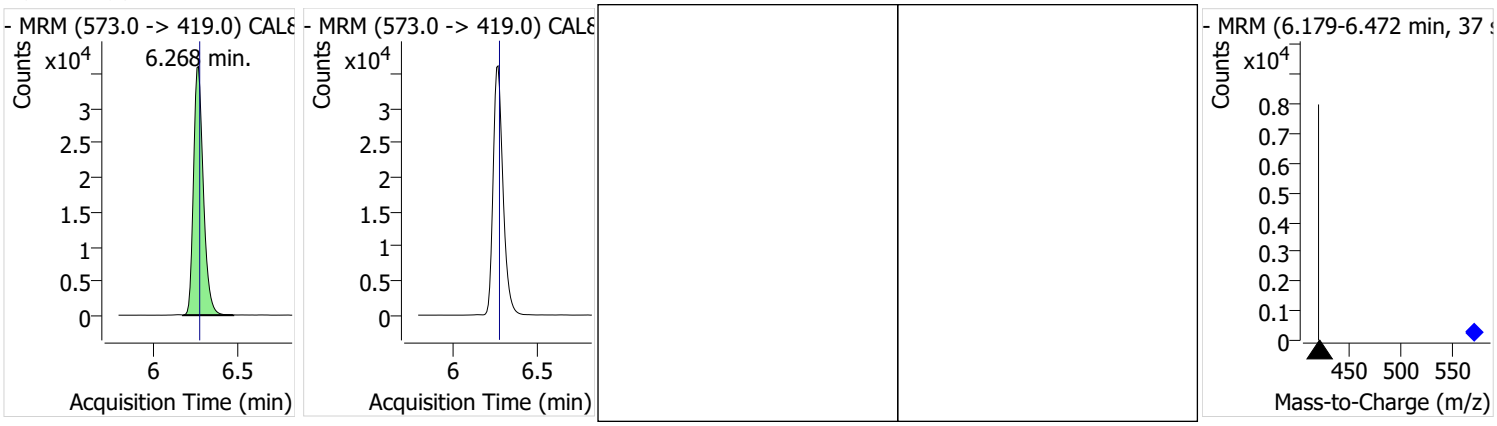
D9-NEtFOSE



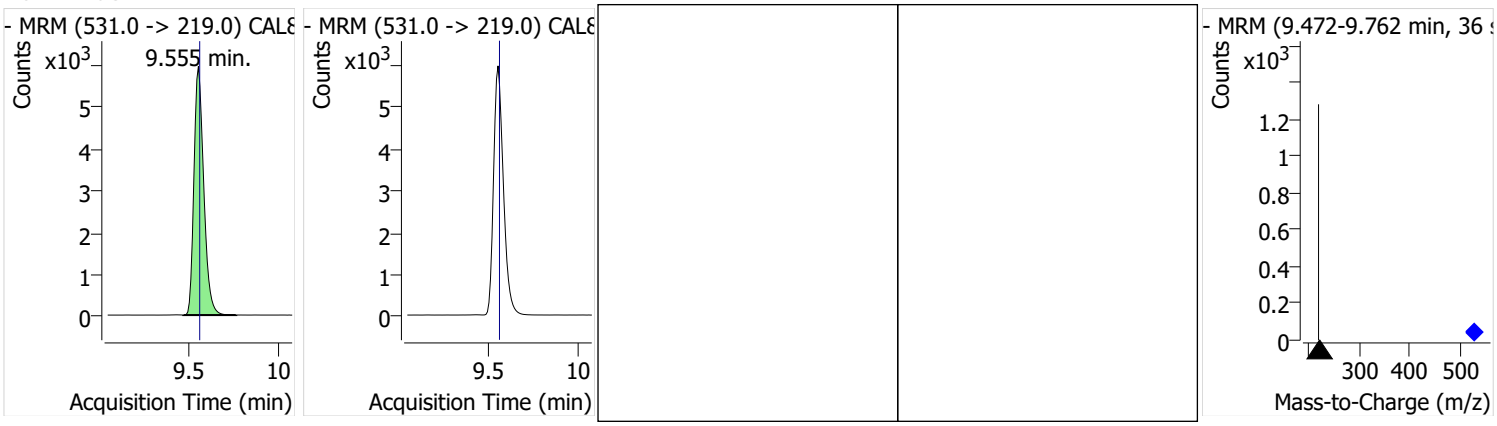
D3-NMeFOSA



D3-NMeFOSAA



D5-NEtFOSA



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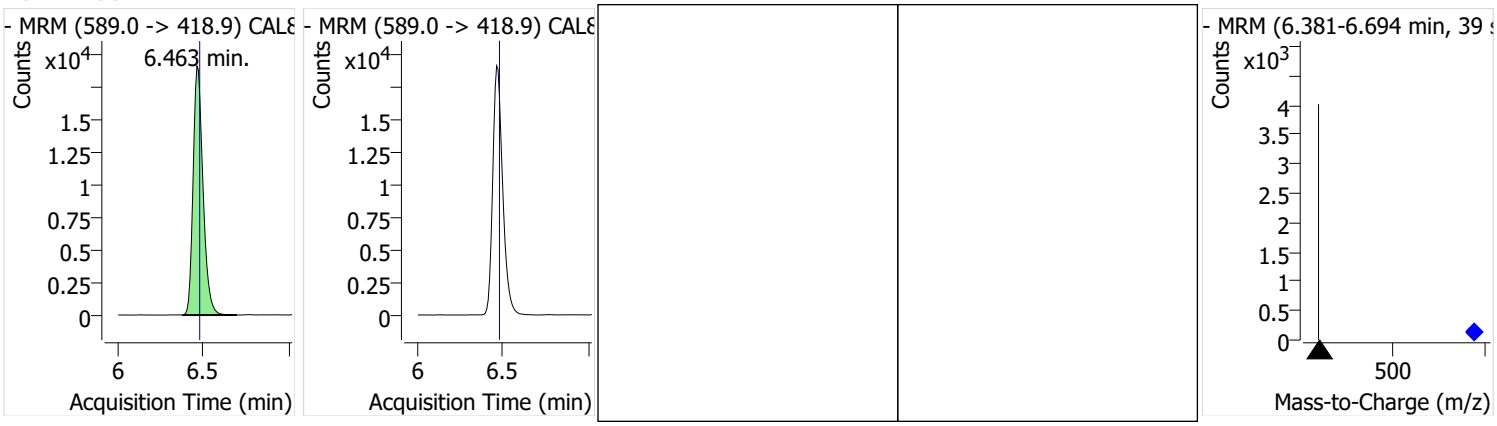
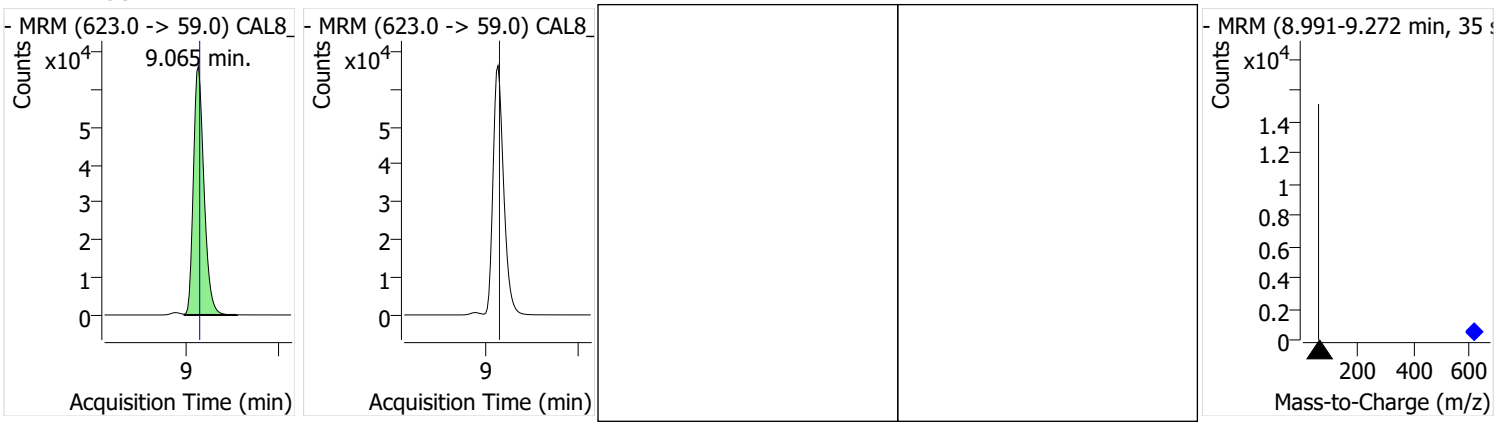


D7-NMeFOSE



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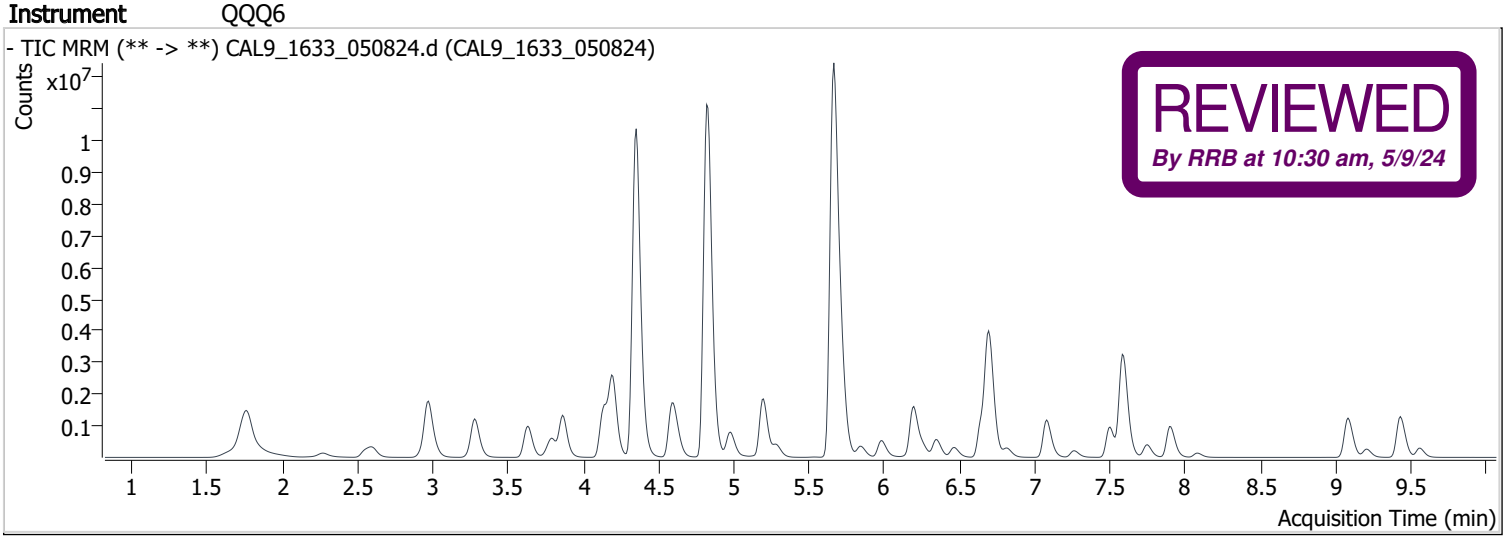
Acq. Time	5/8/2024 8:22 PM	**Data File**	CAL9_1633_050824.d
Sample Type	Cal	**Sample Name**	CAL9_1633_050824
Dilution	1	**Acq. Method**	1633_ACQUISITION_01.m
Sample Comment	E#24E0162	**Processing method**	1633_042924.m
Instrument	QQQ6		



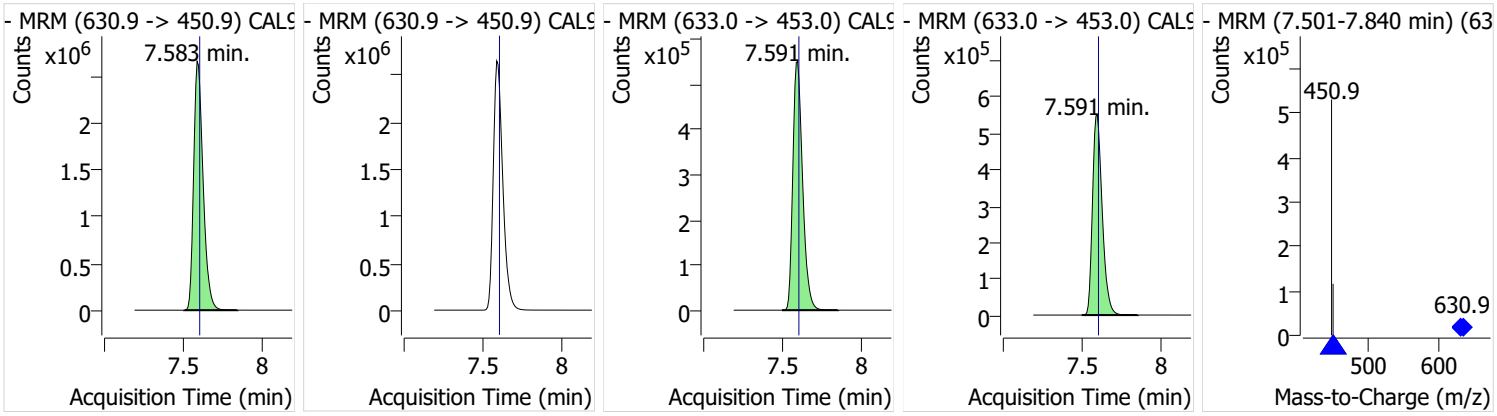
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
11Cl-PF3OUdS	7.583	11060755	670686.79		13C3-HFPODA - ISTD	4.136	206136	181.8238	ng/ml			
633.0 -> 453.0			220264.07	21.4								
3:3FTCA	2.590	1407030	268211.25		13C5-PFPeA - ISTD	2.970	368242	537.5795	ng/ml			
241.0 -> 117.0			57304.53	48.6								
4:2FTS	3.631	2732157	1056797.88		13C2-4:2FTS - ISTD	3.630	25633	182.5973	ng/ml			
327.0 -> 80.9			236286.91	38.9								
5:3FTCA	4.351	21362776	1435933.28		13C5-PFHxA - ISTD	3.861	212714	2520.3919	ng/ml			
341.0 -> 217.0			1128519.37	90.5								
6:2FTS	4.975	2195465	687816.39		13C2-6:2FTS - ISTD	4.974	19120	169.5075	ng/ml			
427.0 -> 80.9			161370.06	33.1								
7:3FTCA	5.666	26426959	29889.67		13C5-PFHxA - ISTD	3.861	212714	2647.4843	ng/ml			
441.0 -> 317.0			15357.28	88.1								
8:2FTS	5.984	1424507	1269582.46		13C2-8:2FTS - ISTD	5.983	17157	162.6365	ng/ml			
527.0 -> 81.0			91764.66	41.2								
9Cl-PF3ONS	6.696	12122786	312662.60		13C3-HFPODA - ISTD	4.136	206136	178.2039	ng/ml			
533.0 -> 353.0			91677.17	28.9								
ADONA	4.822	33844303	34968.31		13C3-HFPODA - ISTD	4.136	206136	220.9730	ng/ml			
377.0 -> 85.1			29515.60	31.9								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA	4.145	3860580	21297.98		13C3-HFPODA - ISTD	4.136	206136	203.5143	ng/ml			
285.0 -> 184.9			17408.35	51.4								
NEtFOSA	9.565	549277	329581.10		D5-NEtFOSA - ISTD	9.555	20729	51.0057	ng/ml			
526.0 -> 219.0			235333.50	95.0								
NEtFOSAA	6.463	846990	16697.18		D5-NEtFOSAA - ISTD	6.455	65836	53.1461	ng/ml	✔	3	AMS 05/09/24
584.0 -> 526.0			12623.31	67.4								
NEtFOSE	9.428	5080536	1040241.53		D9-NEtFOSE - ISTD	9.403	235844	482.1699	ng/ml			
NFDHA	3.775	640392	100760.20		13C5-PFHxA - ISTD	3.861	212714	89.0555	ng/ml			
295.0 -> 85.0			22330.96	34.4								
NMeFOSA	9.211	500967	239758.72		D3-NMeFOSA - ISTD	9.210	21428	48.2674	ng/ml			
512.0 -> 219.0			136663.81	94.6								
NMeFOSAA	6.261	571369	7167.66		D3-NMeFOSAA - ISTD	6.252	135390	49.7658	ng/ml	✔	3	AMS 05/09/24
570.0 -> 418.9			5337.76	66.9								
NMeFOSE	9.082	4886387	1591450.62		D7-NMeFOSE - ISTD	9.057	228283	495.7388	ng/ml			
PFBA	1.762	11436818	126919.62		13C4-PFBA - ISTD	1.757	606232	204.3784	ng/ml			
PFBS	3.799	1293819	160592.22		13C3-PFBS - ISTD	3.798	59814	43.3342	ng/ml			
298.9 -> 98.8			82540.72	39.7								
PFDA	6.197	5001970	67183.24		13C6-PFDA - ISTD	6.197	117506	51.6549	ng/ml			
513.0 -> 219.0			363111.47	16.4								
PFDoA	7.079	4145127	85813.78		13C2-PFDoA - ISTD	7.078	101939	49.0575	ng/ml			
613.0 -> 319.0			18455.14	13.1								
PFDoS	8.078	332394	118093.17		13C8-PFOS - ISTD	6.346	35859	46.5128	ng/ml			
698.9 -> 99.0			46095.47	62.3								
PFDS	7.264	525780	137671.69		13C8-PFOS - ISTD	6.346	35859	45.0030	ng/ml			
599.0 -> 98.8			88902.89	61.1								
PFEESA	4.197	8643965	755708.02		13C5-PFHxA - ISTD	3.861	212714	80.7422	ng/ml			
315.0 -> 83.0			164533.92	7.0								
PFHpA	4.591	4907818	64362.58		13C4-PFHpA - ISTD	4.590	226702	51.9394	ng/ml			
362.9 -> 169.0			71967.66	17.7								
PFHpS	5.848	881231	49248.10		13C8-PFOS - ISTD	6.346	35859	46.6206	ng/ml			
449.0 -> 98.8			51651.40	51.6								

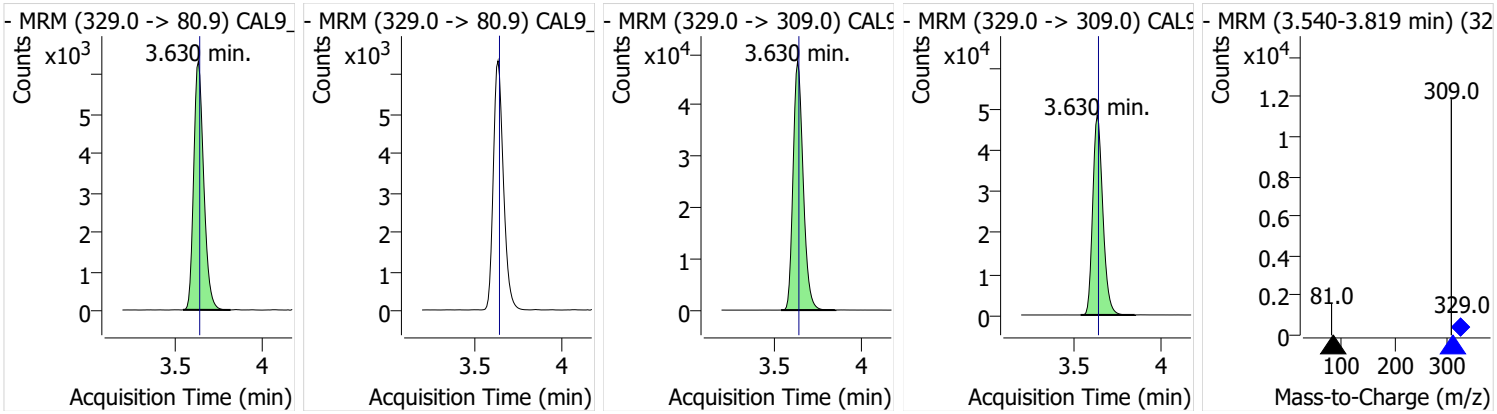
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFHxA	3.863	4379423	22179.10		13C5-PFHxA - ISTD	3.861	212714	50.6392	ng/ml			
313.0 -> 118.9			32736.02	3.5								
PFHxS	5.293	1028534	47418.52		13C3-PFHxS - ISTD	5.292	50318	45.2778	ng/ml	✔	3	AMS 05/09/24
398.9 -> 99.0			20096.98	45.0								
PFMBA	3.280	5169473	874177.01		13C5-PFPeA - ISTD	2.970	368242	101.9614	ng/ml			
PFMPA	2.267	832627	18313.88		13C5-PFPeA - ISTD	2.970	368242	103.3087	ng/ml			
PFNA	5.714	5150380	93489.99		13C9-PFNA - ISTD	5.713	123291	51.9530	ng/ml			
463.0 -> 219.0			116441.48	21.2								
PFNS	6.819	674538	35143.56		13C8-PFOS - ISTD	6.346	35859	46.2062	ng/ml			
549.0 -> 98.8			52113.79	54.1								
PFOA	5.198	5657801	14826.04		13C8-PFOA - ISTD	5.197	216951	51.9438	ng/ml			
413.0 -> 169.0			27470.35	24.0								
PFOS	6.347	841077	36067.01		13C8-PFOS - ISTD	6.346	35859	45.1275	ng/ml	✔	3	AMS 05/09/24
499.0 -> 99.0			36890.72	47.9								
PFOSA	7.753	1449655	658813.99		13C8-PFOSA - ISTD	7.751	64334	51.0344	ng/ml			
497.9 -> 478.0			32068.29	3.2								
PFPeA	2.971	7756395	231081.15		13C5-PFPeA - ISTD	2.970	368242	104.2918	ng/ml			
263.0 -> 69.0			9657.99	0.3								
PFPeS	4.625	1148033	28721.40		13C3-PFHxS - ISTD	5.292	50318	44.0288	ng/ml			
349.0 -> 98.9			30729.15	47.0								
PFTeDA	7.894	3583596	18487.63		13C2-PFTeDA - ISTD	7.902	93068	47.8557	ng/ml			
713.0 -> 168.9			21362.52	7.9								
PFTrDA	7.499	3464368	21422.57		13C2-PFDoA - ISTD	7.078	101939	48.1280	ng/ml			
663.0 -> 168.9			23496.18	13.2								
PFUnA	6.645	3649661	103157.50		13C7-PFUnA - ISTD	6.644	87712	51.7730	ng/ml			
563.0 -> 269.1			126282.74	17.8								
TDCA	6.216	192808	7515.43					-	ng/ml			
499.0 -> 99.0			2644.05	18.0								
13C2-8:2FTS	5.983	17157	6953.54		18O2-PFHxS	5.291	47270	5.5220	ng/ml			
529.0 -> 509.0			37829.49	***728.7**								
13C2-4:2FTS	3.630	25633	5711.66		18O2-PFHxS	5.291	47270	4.5313	ng/ml			

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
329.0 -> 309.0			44375.47	*775.3								
13C2-6:2FTS	4.974	19120	3699.28		18O2-PFHxS	5.291	47270	5.0019	ng/ml			
429.0 -> 409.0			29270.78	*935.1								
13C5-PFHxA	3.861	212714	23543.54		13C2-PFHxA	3.861	204035	2.5299	ng/ml			
318.0 -> 120.0			662.84	2.0								
13C6-PFDA	6.197	117506	12899.38		13C2-PFDA	6.197	121745	1.2233	ng/ml			
13C7-PFUnA	6.644	87712	12421.36		13C2-PFDA	6.197	121745	1.1279	ng/ml			
13C8-PFOA	5.197	216951	23695.32		13C4-PFOA	5.198	30845	2.5656	ng/ml			
13C8-PFOS	6.346	35859	7159.87		13C4-PFOS	6.346	38167	2.6134	ng/ml			
507.0 -> 99.0			7937.11	49.9								
13C8-PFOSA	7.751	64334	32744.05		13C4-PFOS	6.346	38167	2.6658	ng/ml			
13C9-PFNA	5.713	123291	17084.23		13C5-PFNA	5.713	141968	1.2735	ng/ml			
13C5-PFPeA	2.970	368242	15757.71		13C2-PFHxA	3.861	204035	4.8870	ng/ml			
13C2-PFDoA	7.078	101939	7697.71		13C2-PFDA	6.197	121745	1.2700	ng/ml			
13C4-PFHpA	4.590	226702	15563.81		13C2-PFHxA	3.861	204035	2.4105	ng/ml			
13C4-PFBA	1.757	606232	188184.88		13C3-PFBA	1.760	269674	10.3541	ng/ml			
13C3-PFHxS	5.292	50318	15905.95		18O2-PFHxS	5.291	47270	2.6066	ng/ml			
402.0 -> 99.0			7496.86	48.9								
13C3-PFBS	3.798	59814	18910.95		18O2-PFHxS	5.291	47270	2.3413	ng/ml			
301.9 -> 98.9			14541.58	33.7								
13C3-HFPODA	4.136	206136	11728.44		13C2-PFHxA	3.861	204035	8.7650	ng/ml			
287.0 -> 185.0			15001.87	43.5								
13C2-PFTeDA	7.902	93068	9236.39		13C2-PFDA	6.197	121745	1.3466	ng/ml			
D9-NEtFOSE	9.403	235844	34368.95		13C4-PFOS	6.346	38167	23.5010	ng/ml			
D3-NMeFOSA	9.210	21428	9967.00		13C4-PFOS	6.346	38167	2.7683	ng/ml			
D3-NMeFOSAA	6.252	135390	19651.20		13C4-PFOS	6.346	38167	5.4759	ng/ml			
D5-NEtFOSA	9.555	20729	14911.69		13C4-PFOS	6.346	38167	2.5673	ng/ml			
D5-NEtFOSAA	6.455	65836	16128.58		13C4-PFOS	6.346	38167	5.2622	ng/ml			
D7-NMeFOSE	9.057	228283	150874.07		13C4-PFOS	6.346	38167	24.3408	ng/ml			

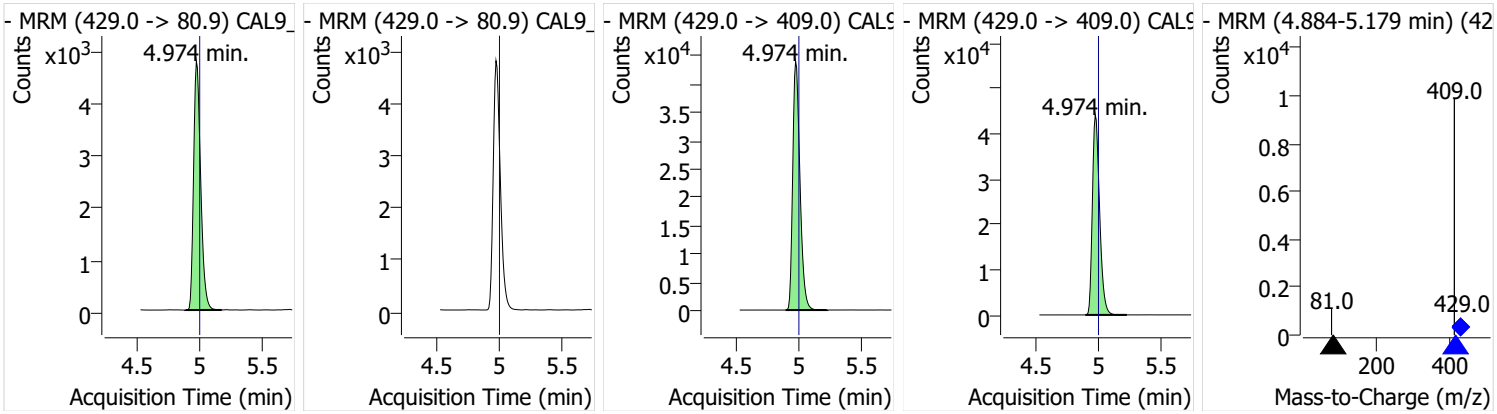
11Cl-PF3OUdS



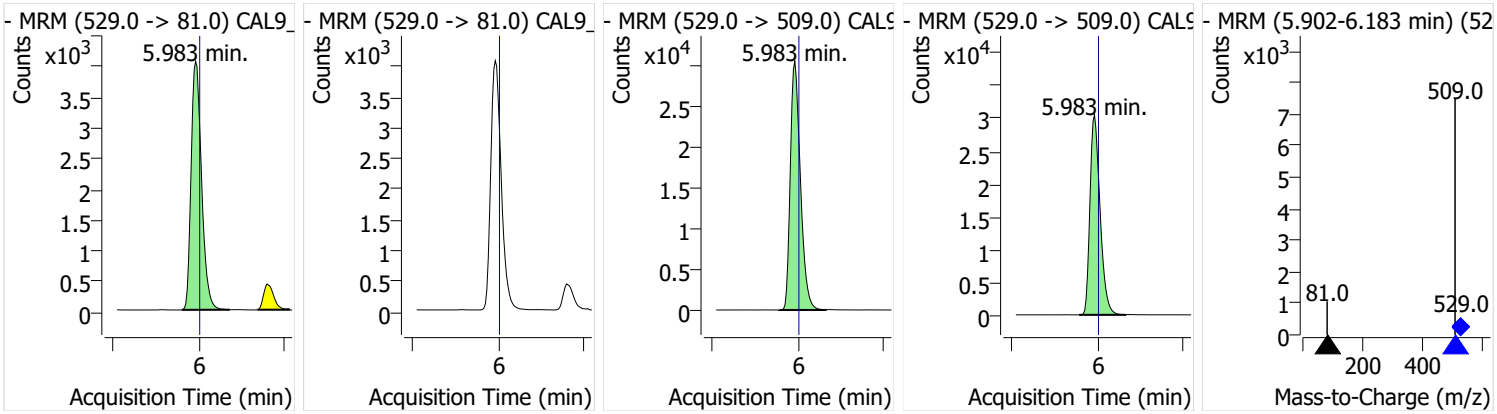
13C2-4:2FTS - ISTD



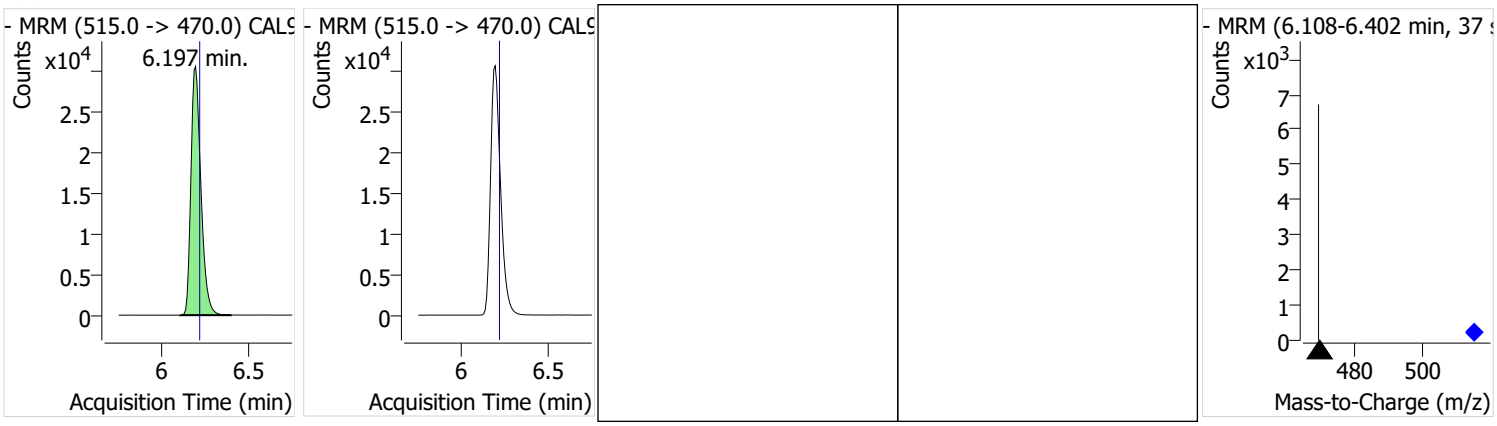
13C2-6:2FTS - ISTD



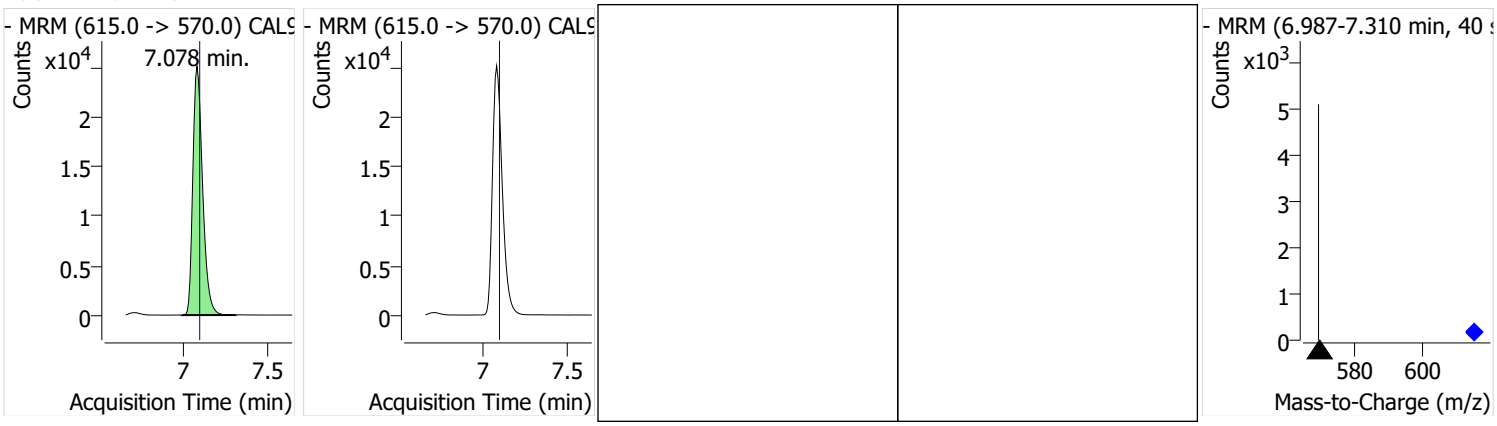
13C2-8:2FTS - ISTD



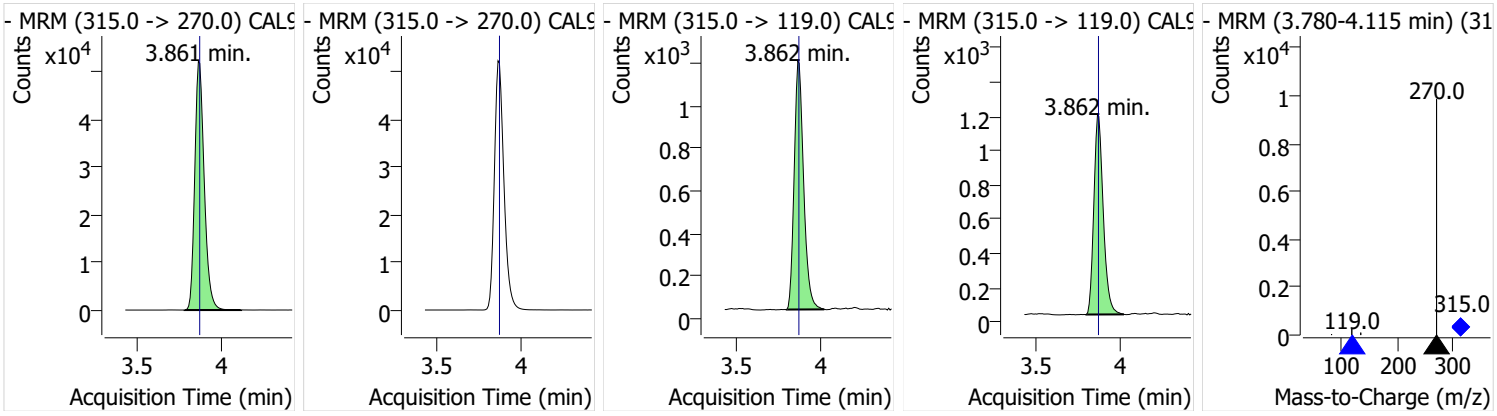
13C2-PFDA



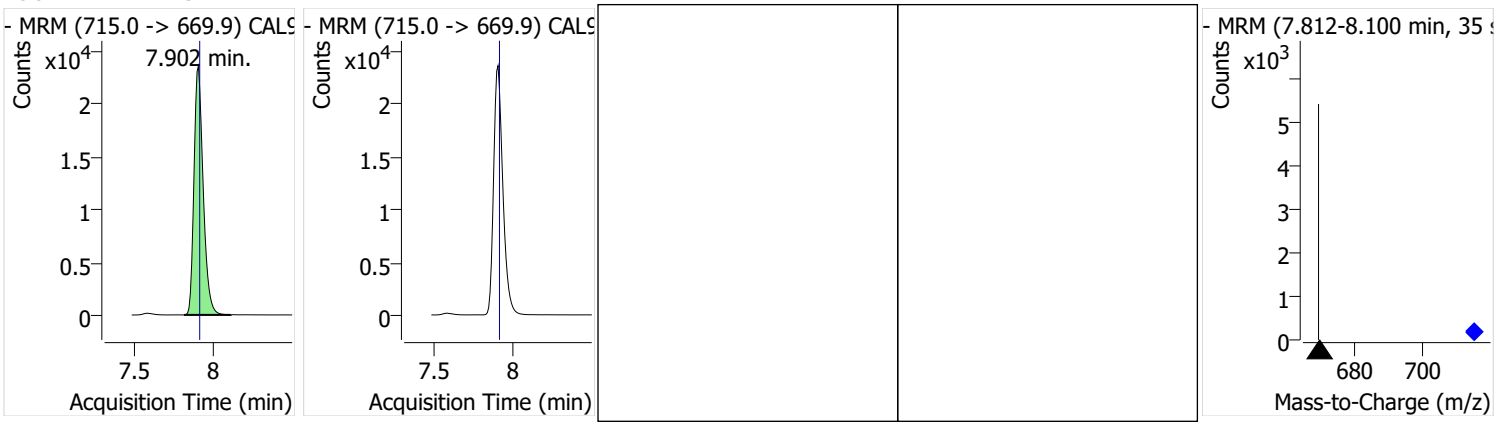
13C2-PFDoA - ISTD



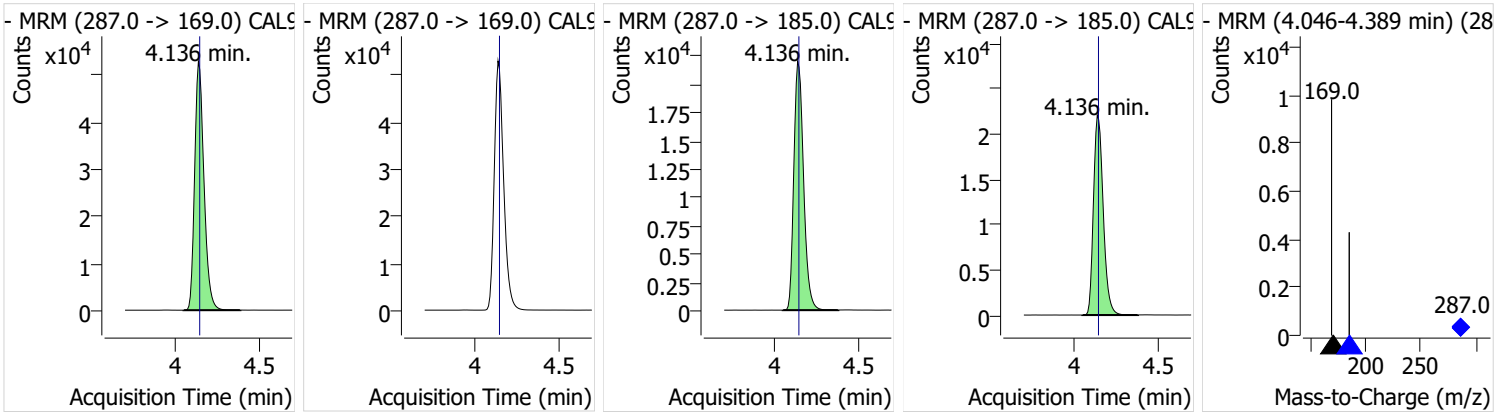
13C2-PFHxA



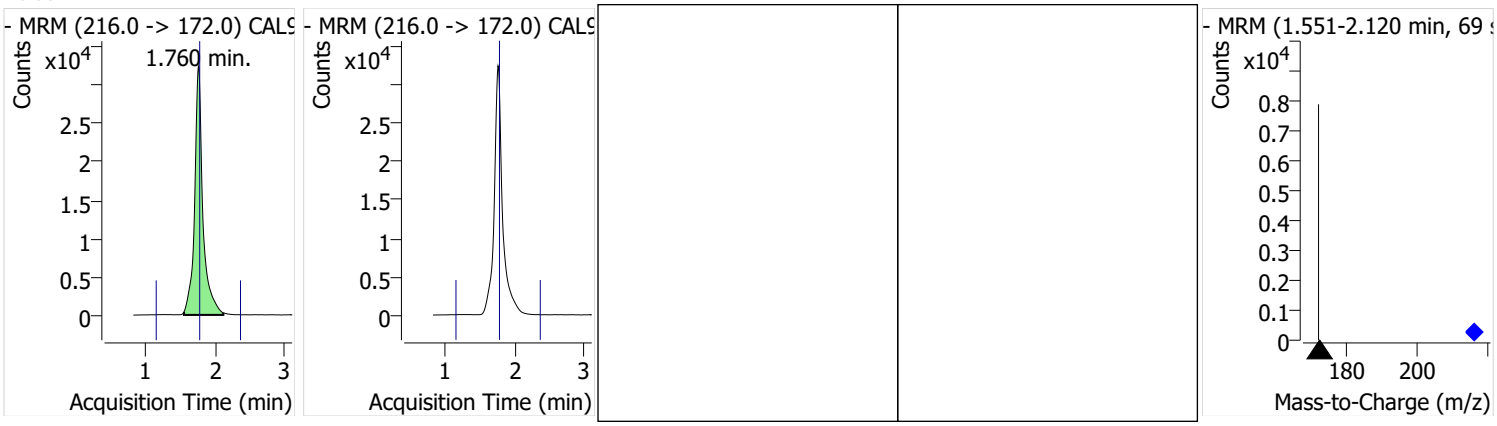
13C2-PFTeDA - ISTD



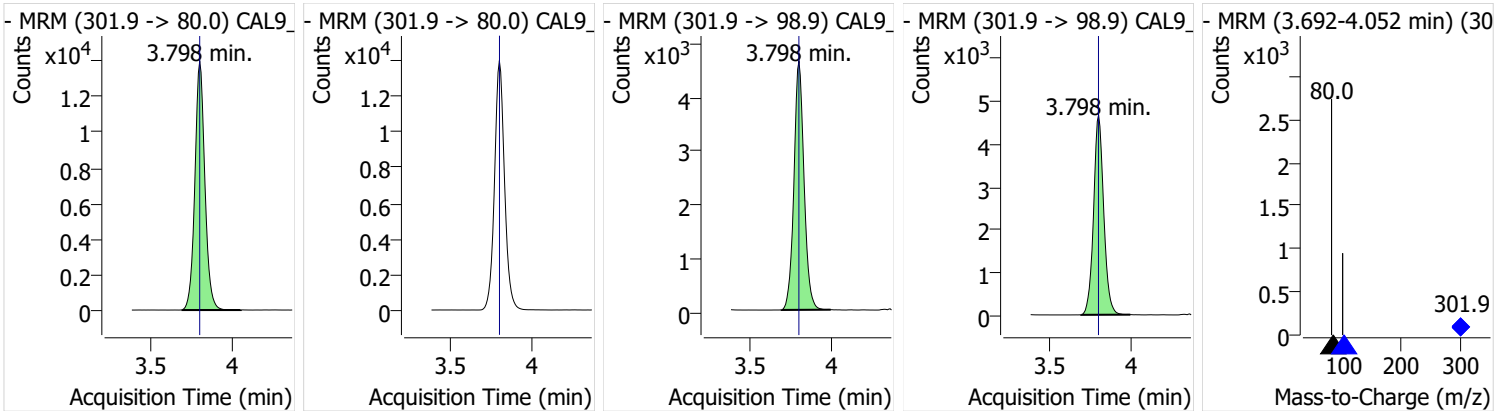
13C3-HFPODA - ISTD



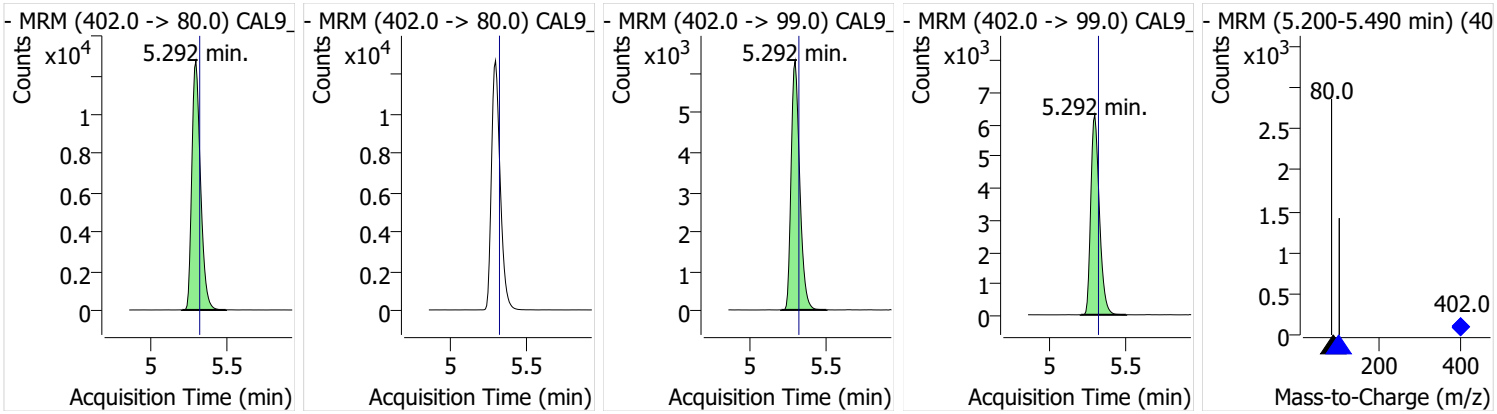
13C3-PFBA



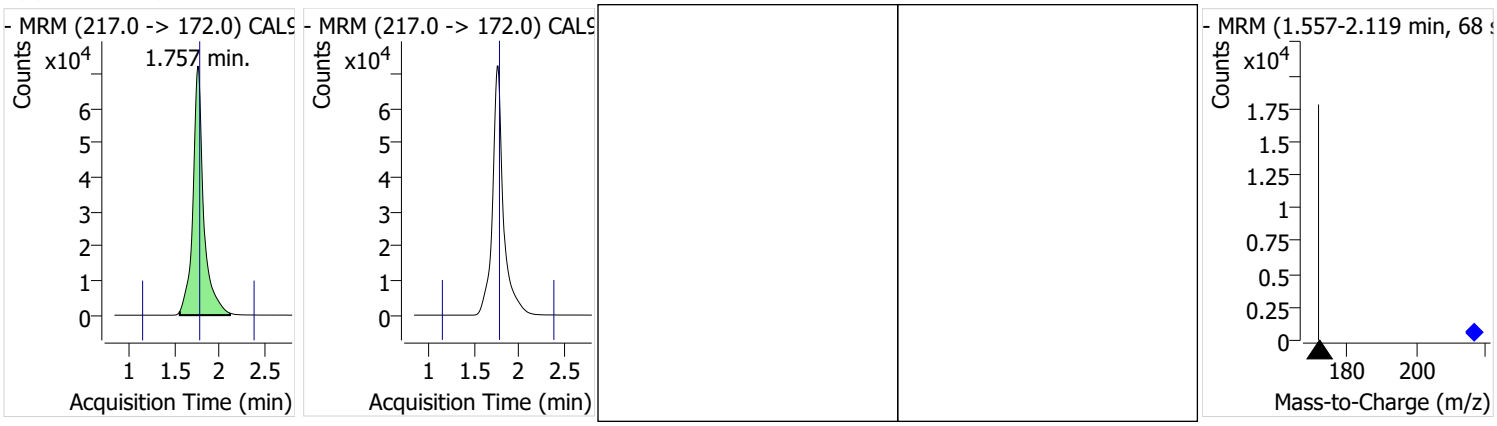
13C3-PFBS - ISTD



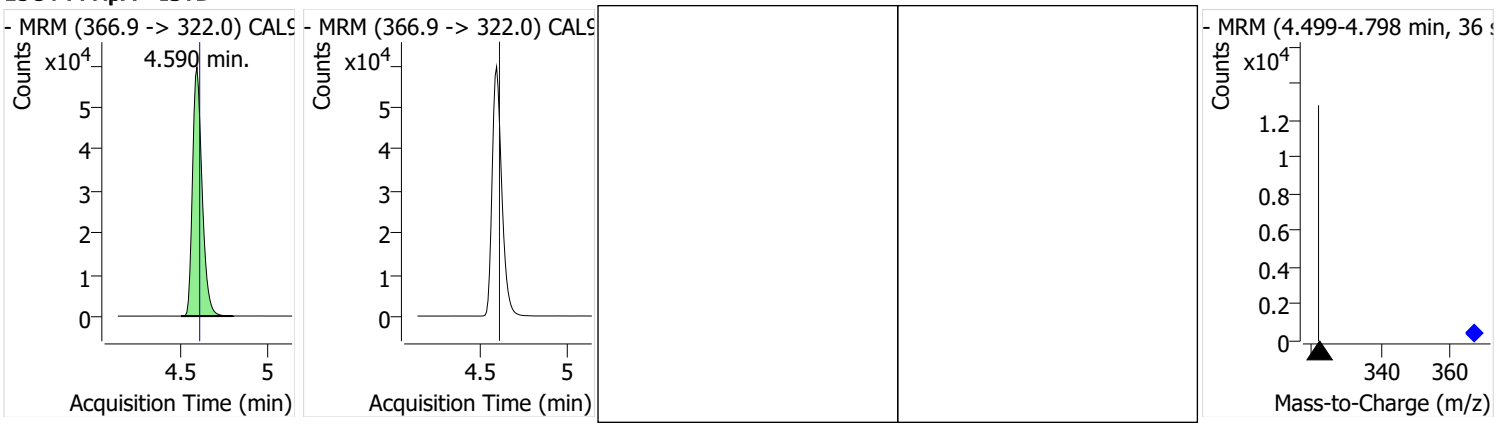
13C3-PFHxS - ISTD



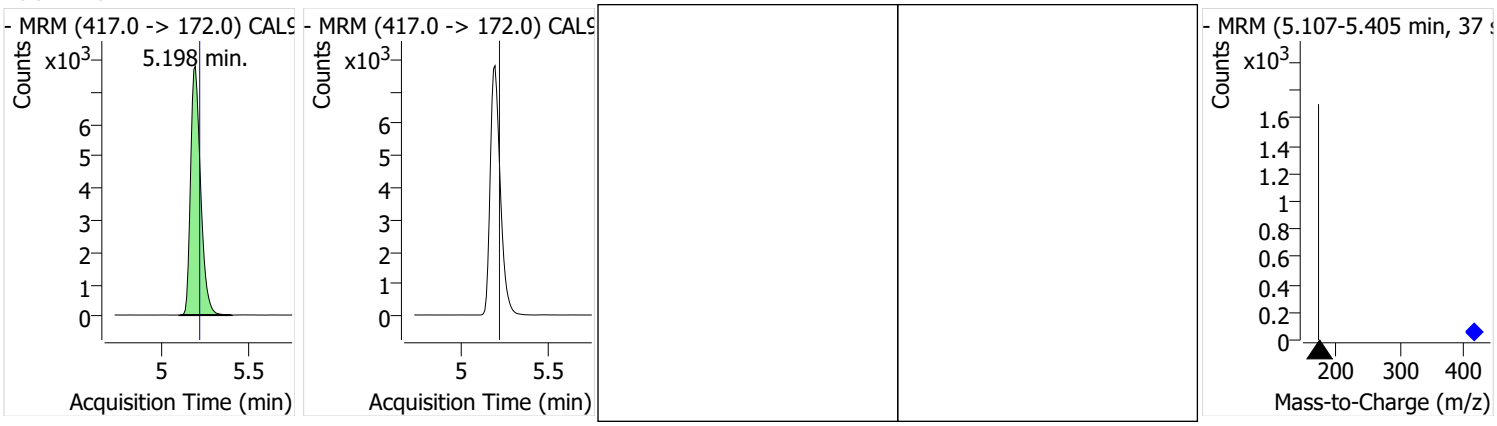
13C4-PFBA - ISTD



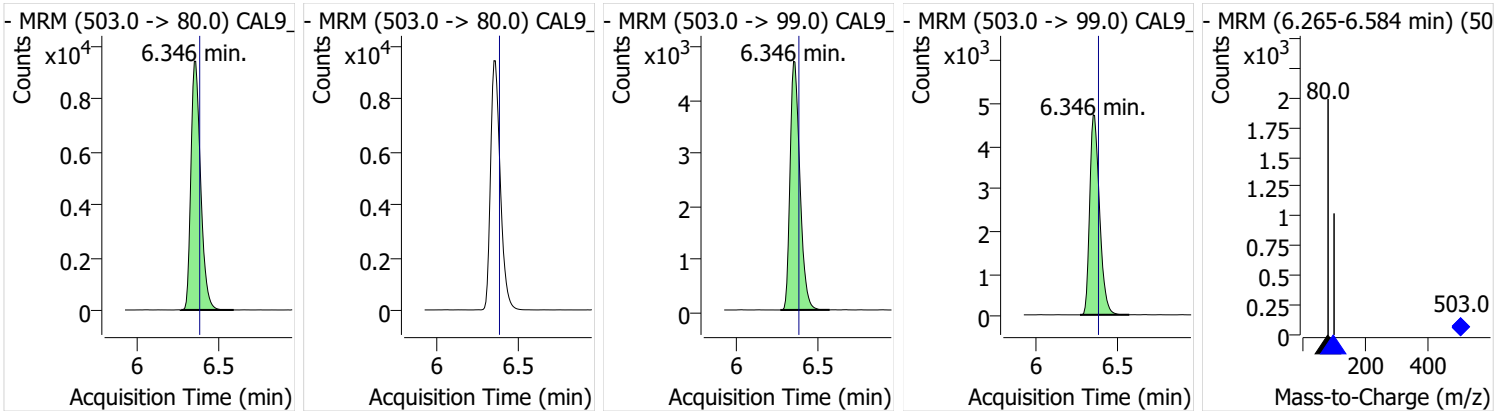
13C4-PFHpA - ISTD



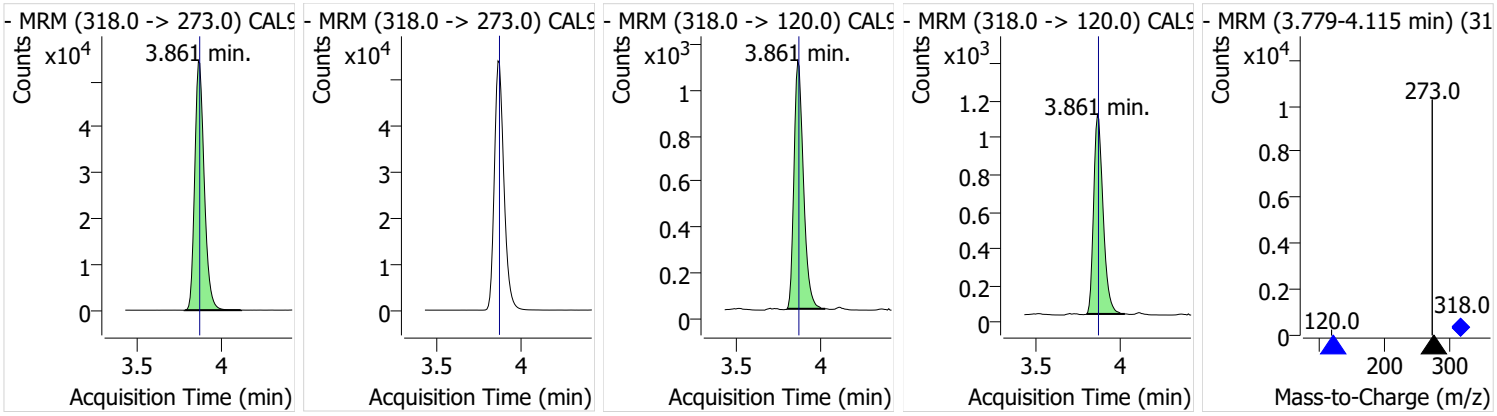
13C4-PFOA



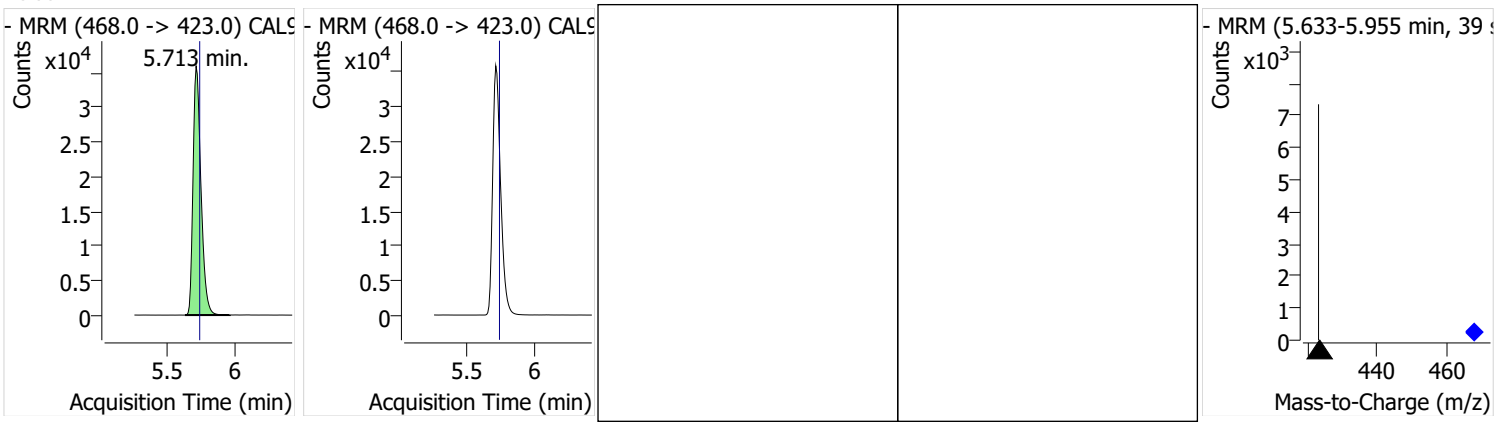
13C4-PFOS



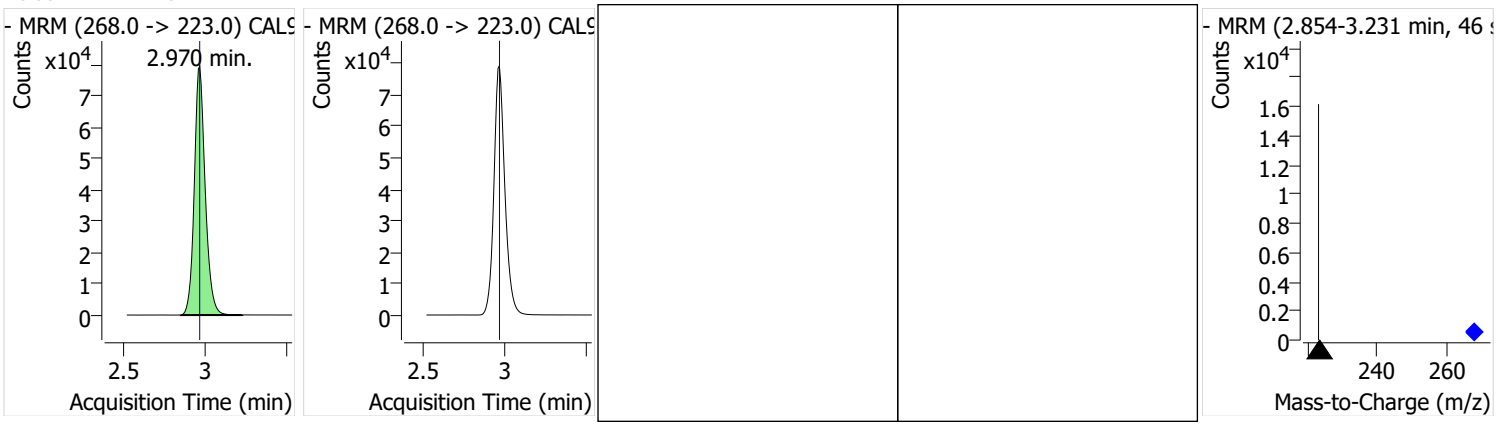
13C5-PFHxA - ISTD



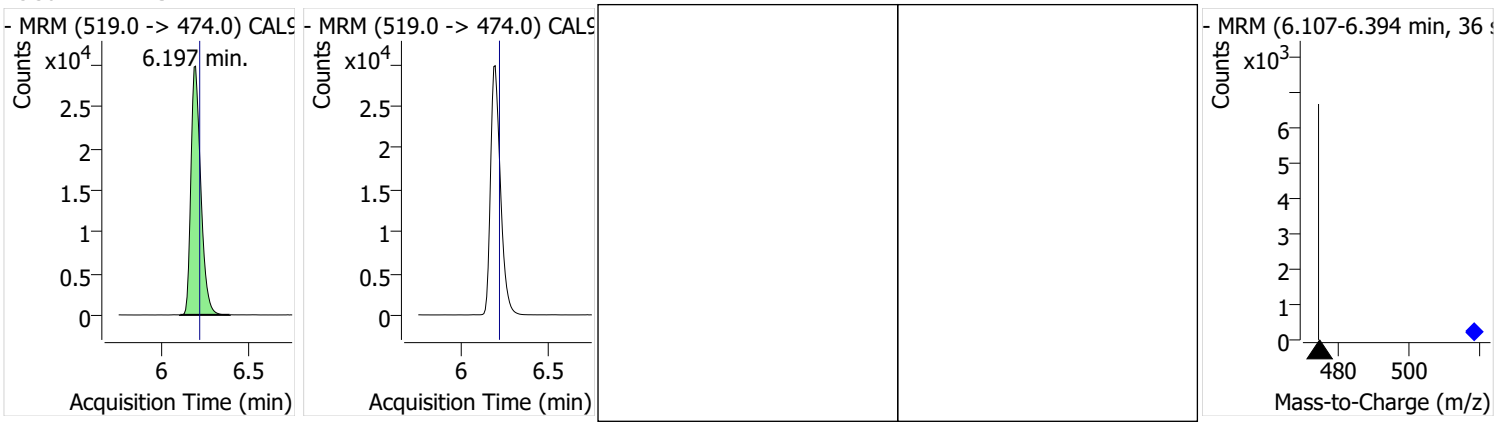
13C5-PFNA



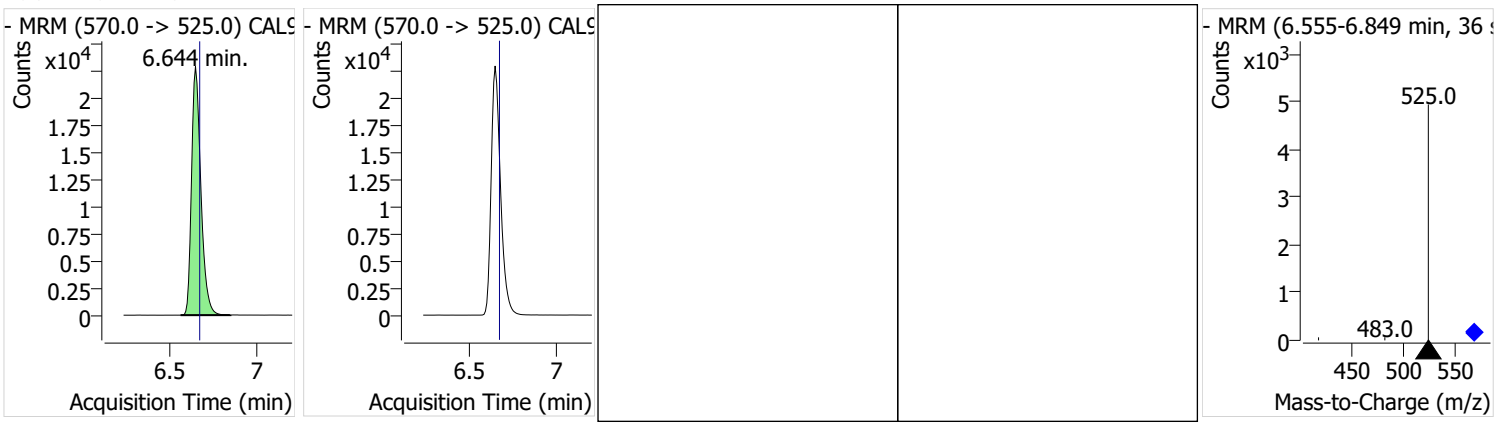
13C5-PFPeA - ISTD



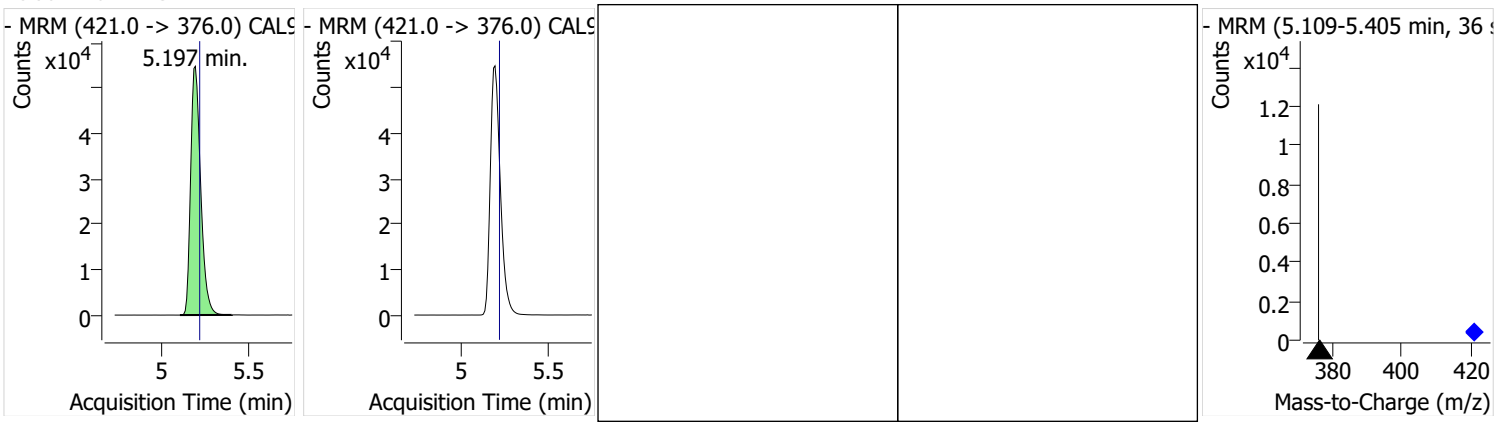
13C6-PFDA - ISTD



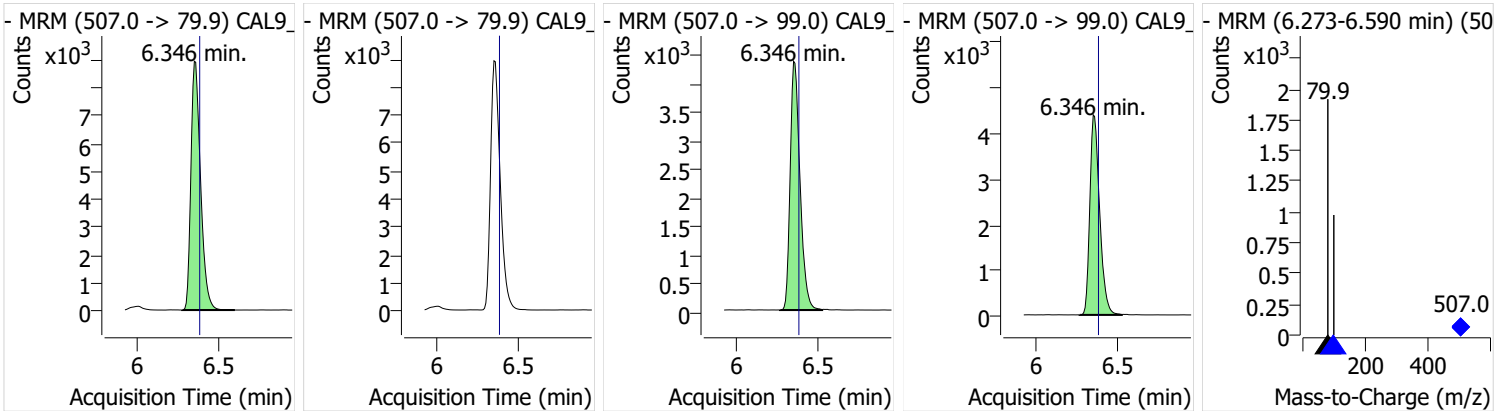
13C7-PFUnA - ISTD



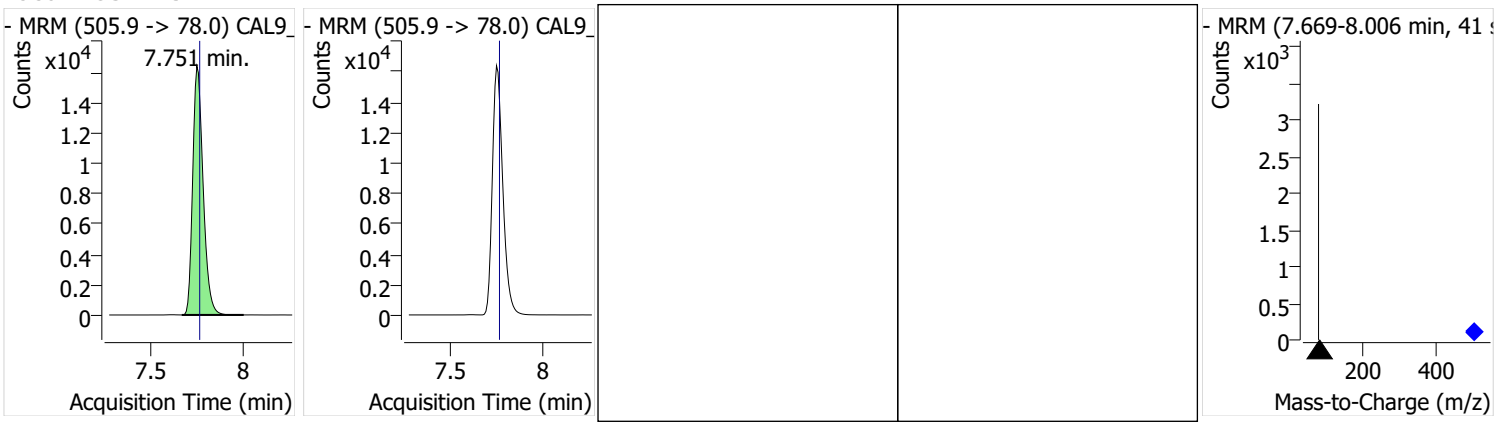
13C8-PFOA - ISTD



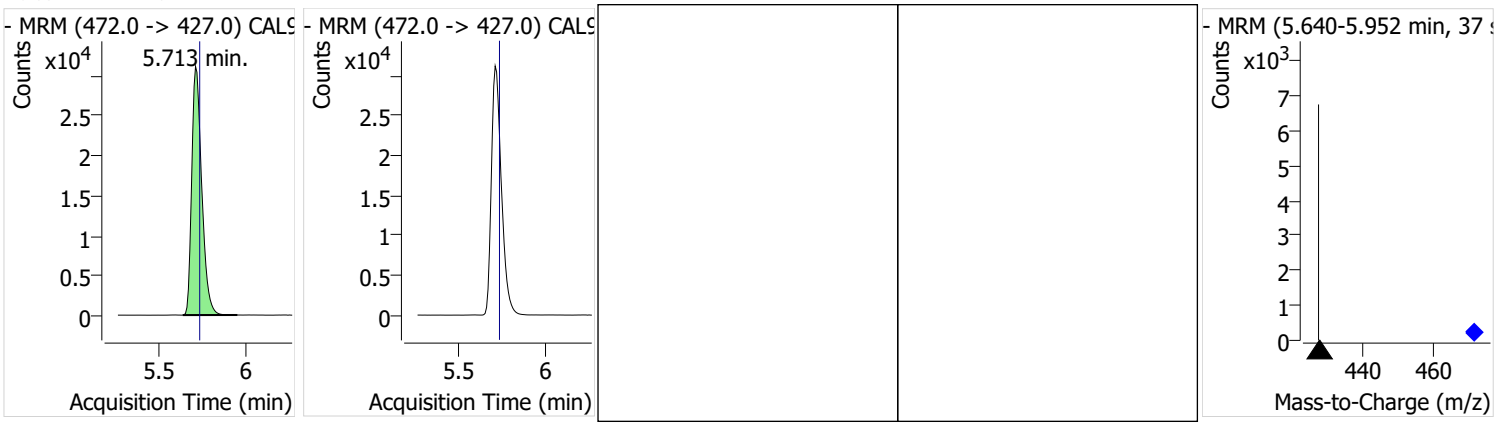
13C8-PFOS - ISTD



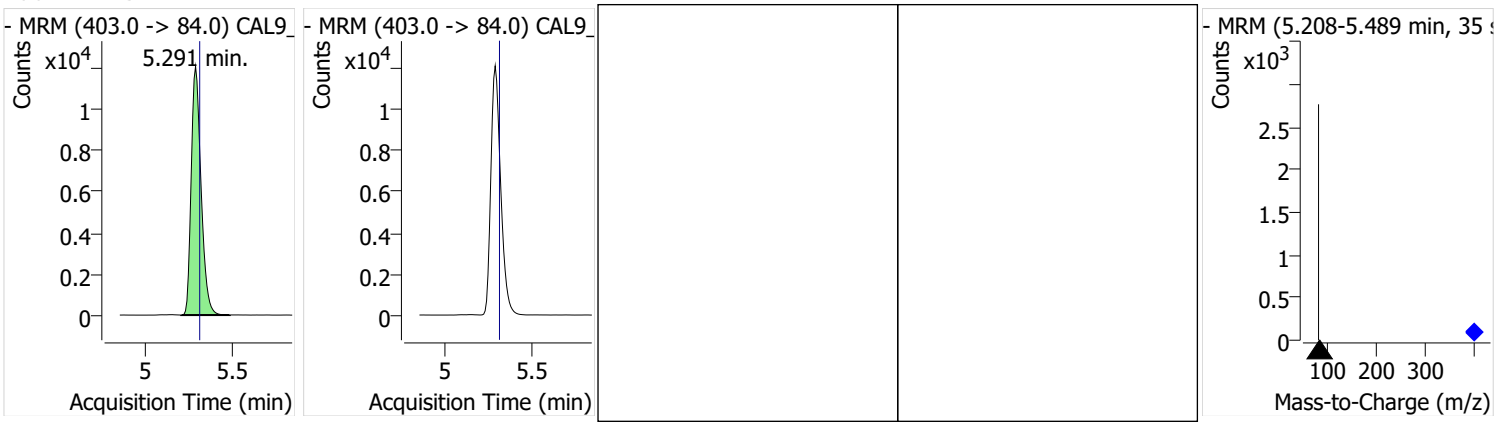
13C8-PFOSA - ISTD



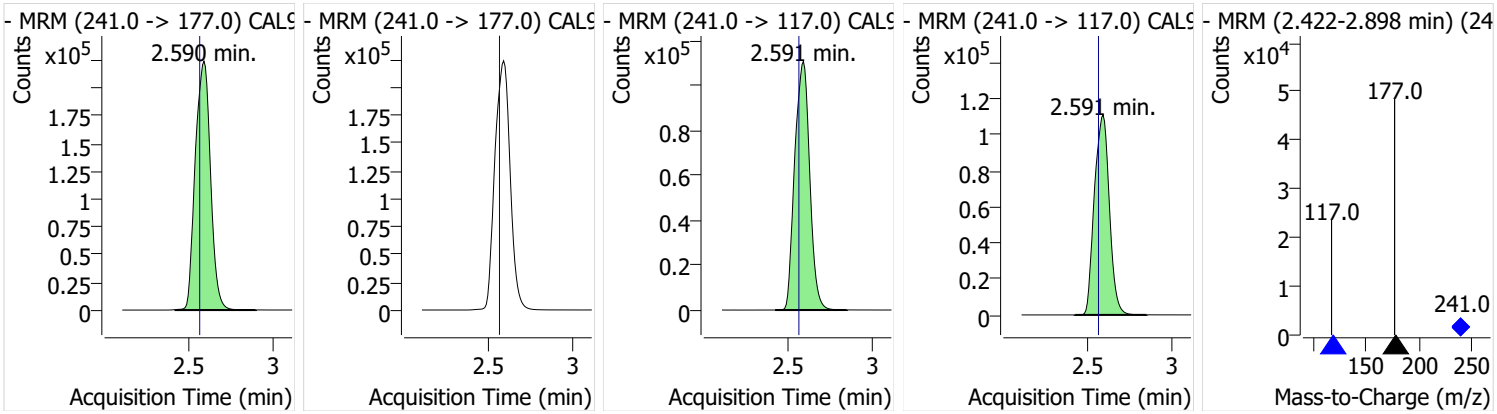
13C9-PFNA - ISTD



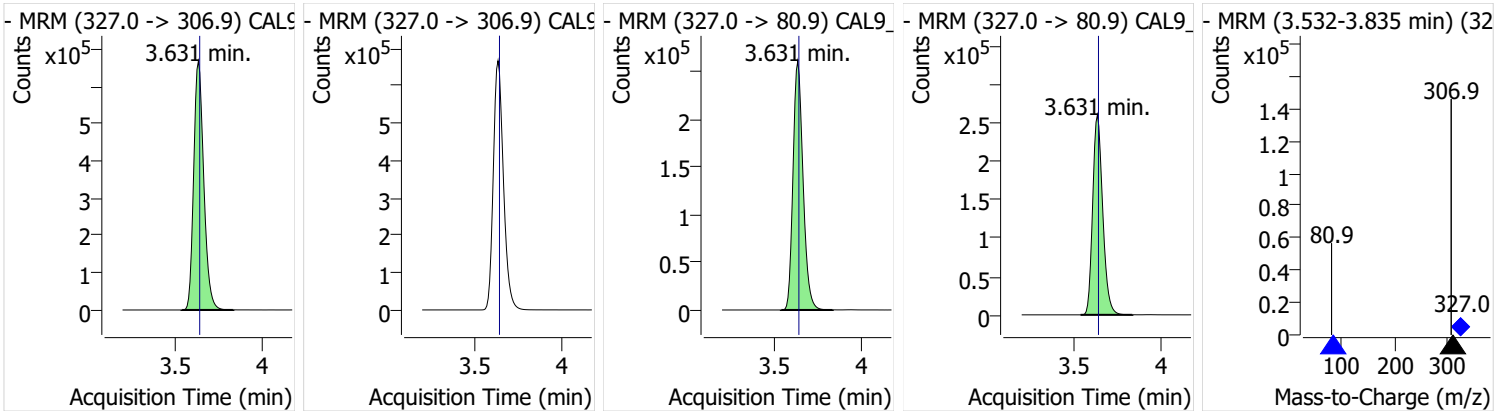
18O2-PFHxS



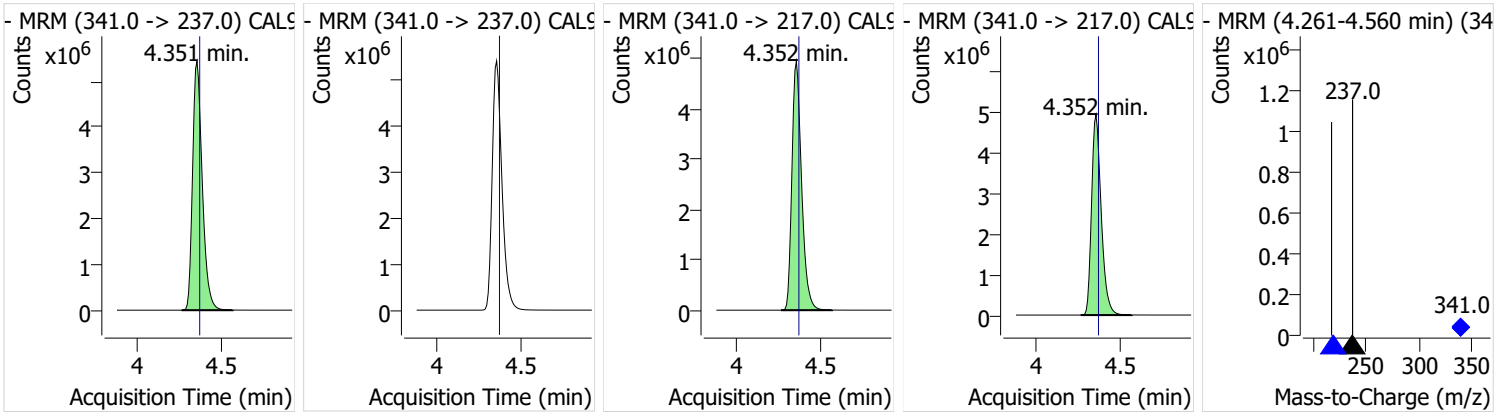
3:3FTCA



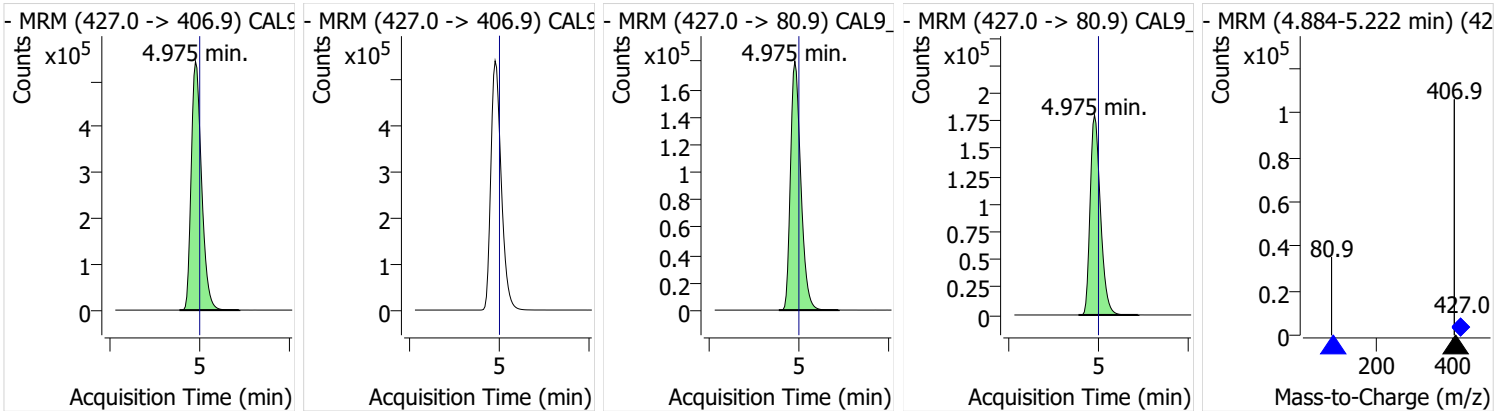
4:2FTS



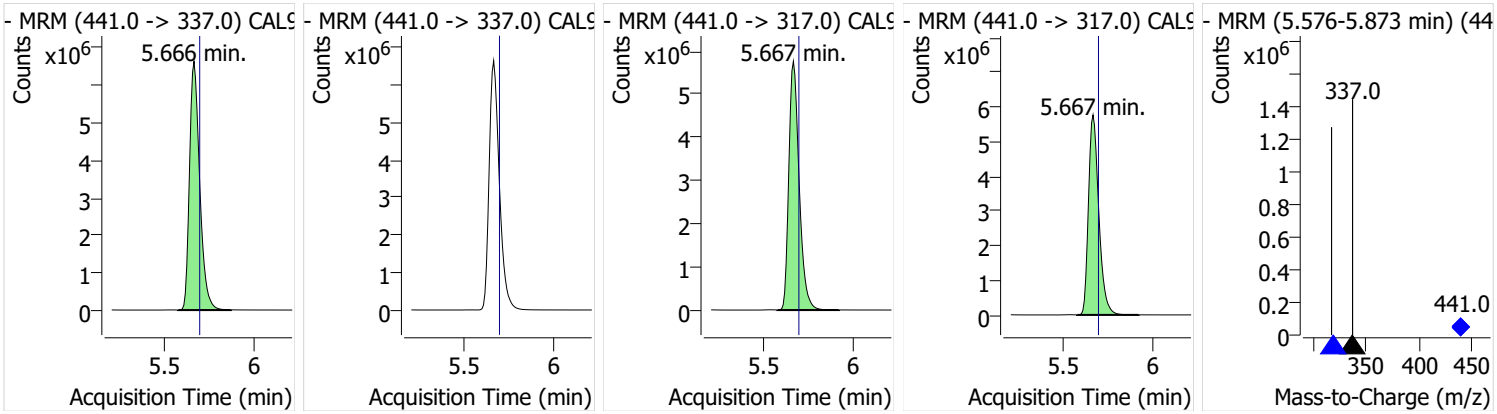
5:3FTCA



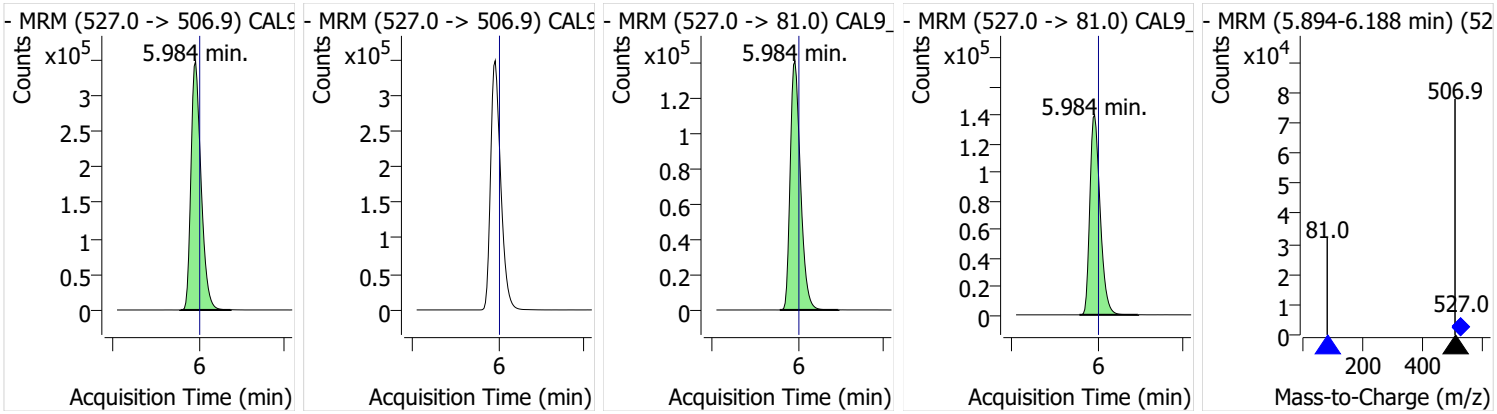
6:2FTS



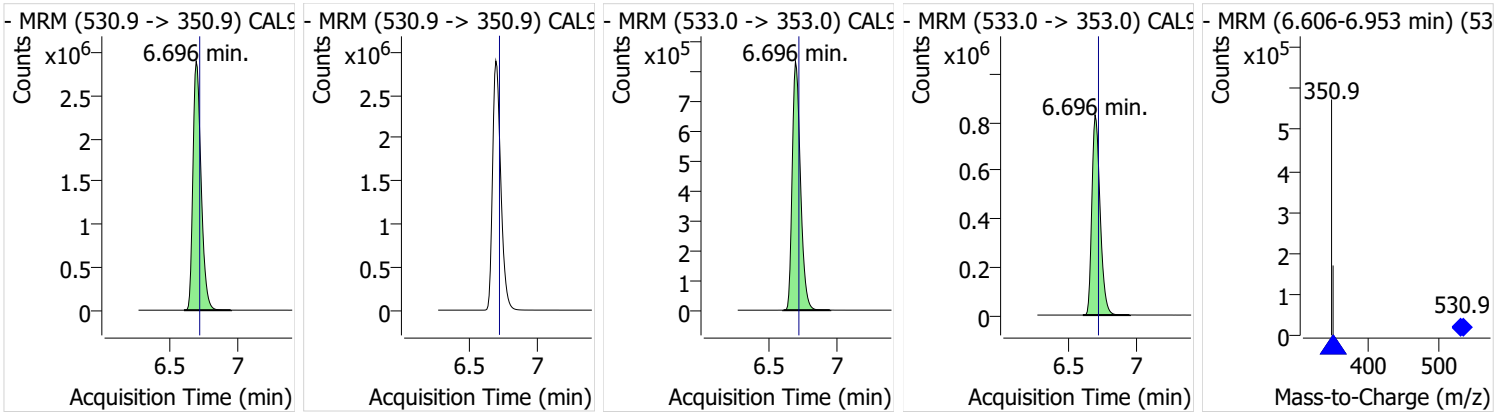
7:3FTCA



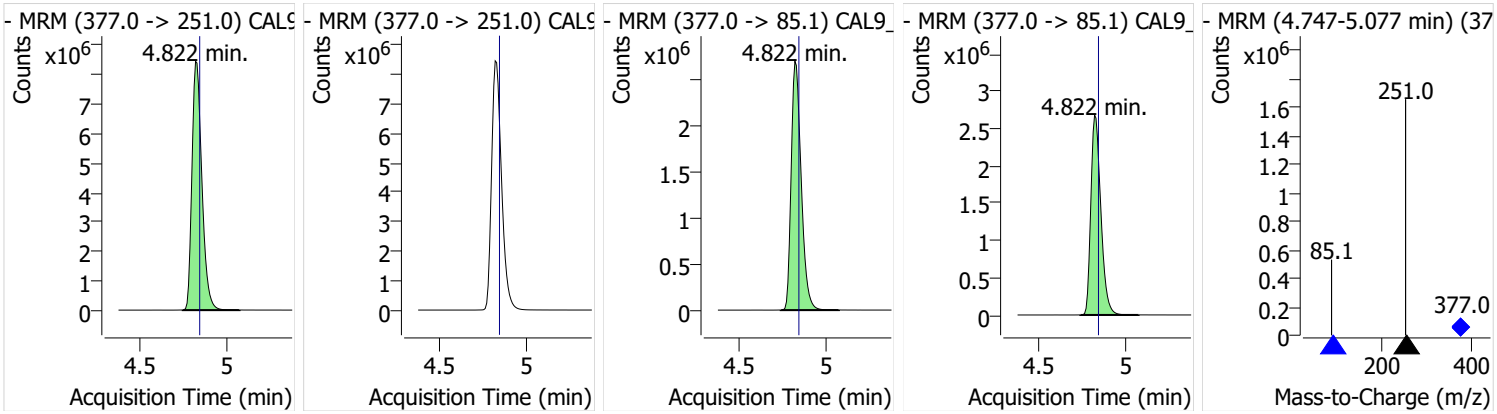
8:2FTS



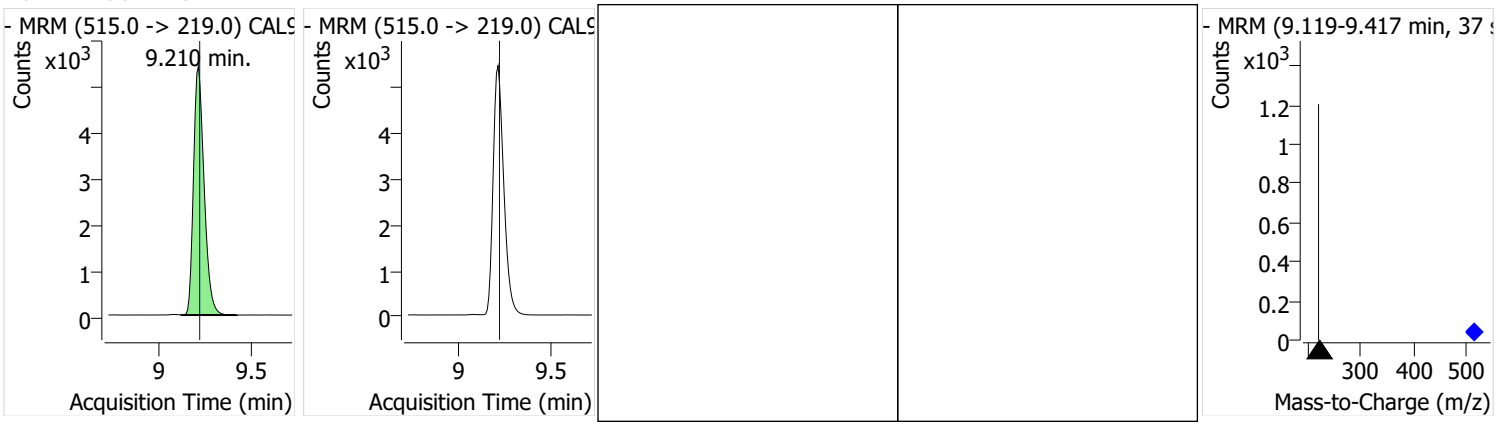
9Cl-PF3ONS



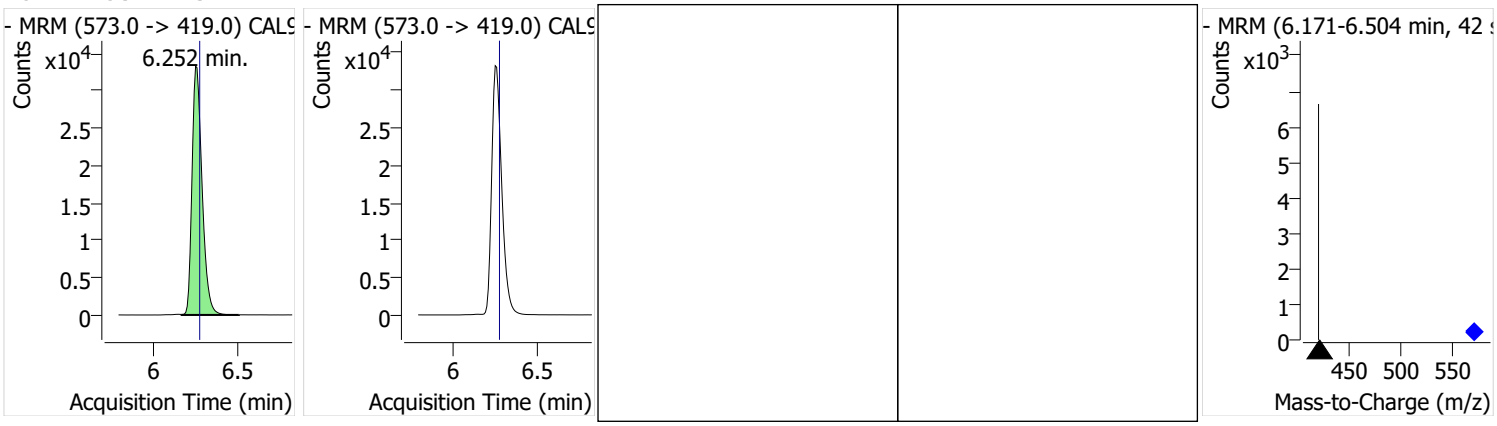
ADONA



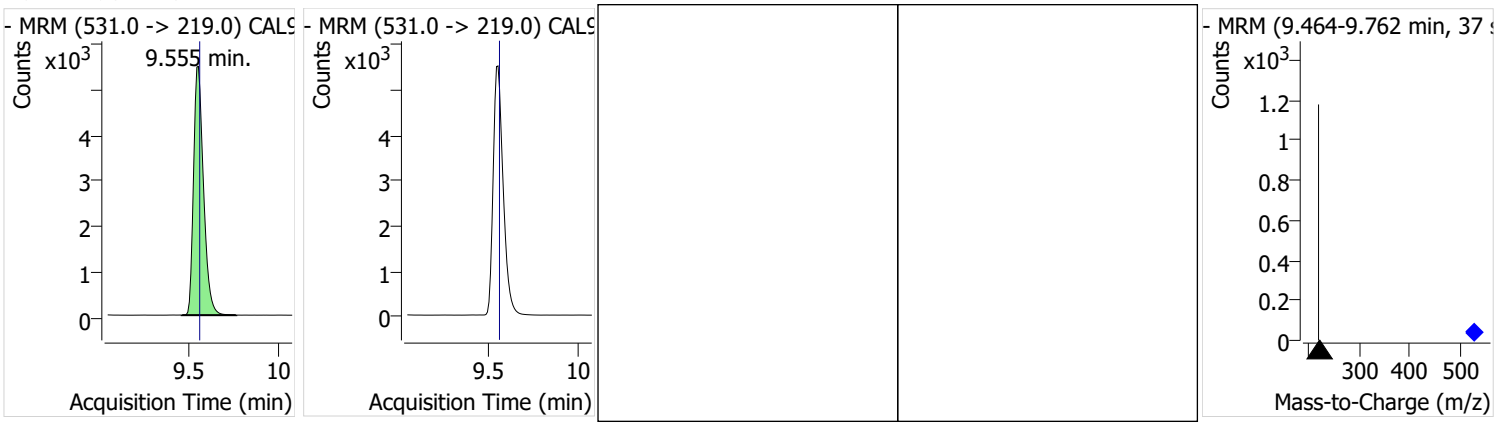
D3-NMeFOSA - ISTD



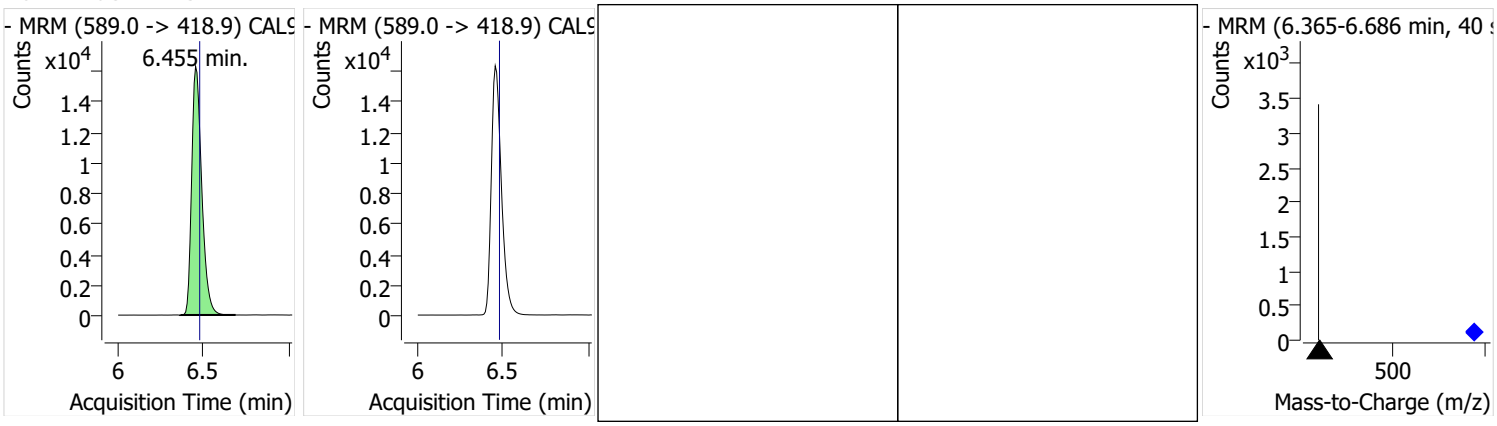
D3-NMeFOSAA - ISTD



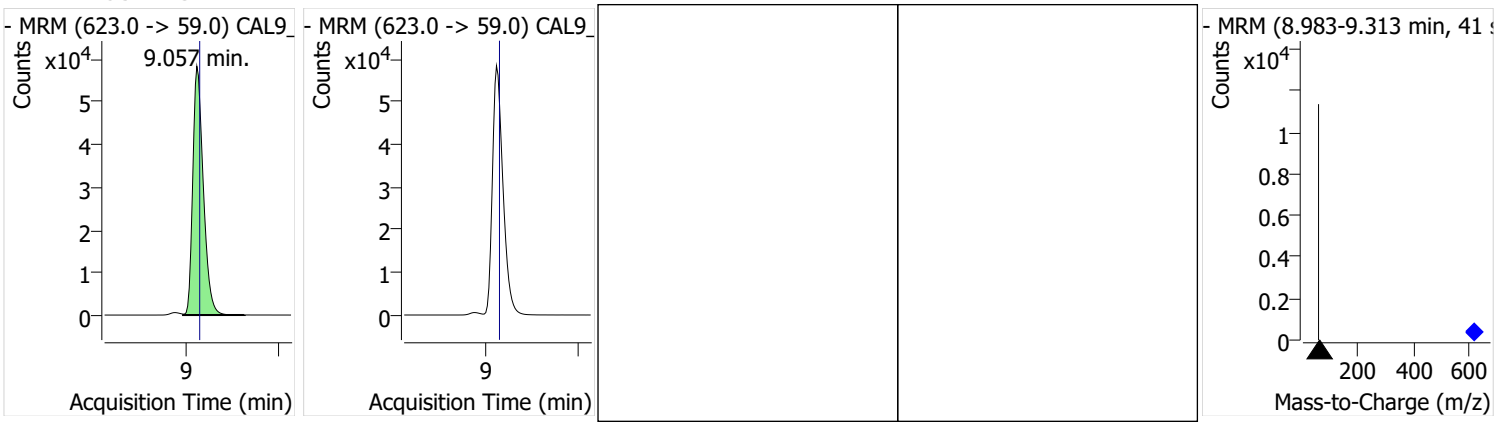
D5-NEtFOSA - ISTD



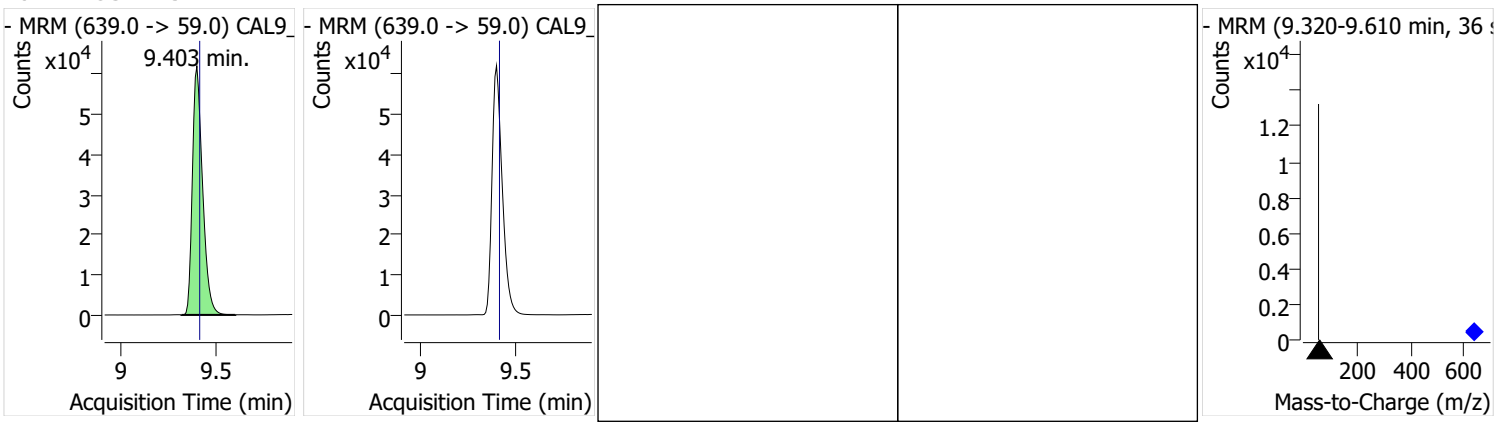
D5-NEtFOSAA - ISTD



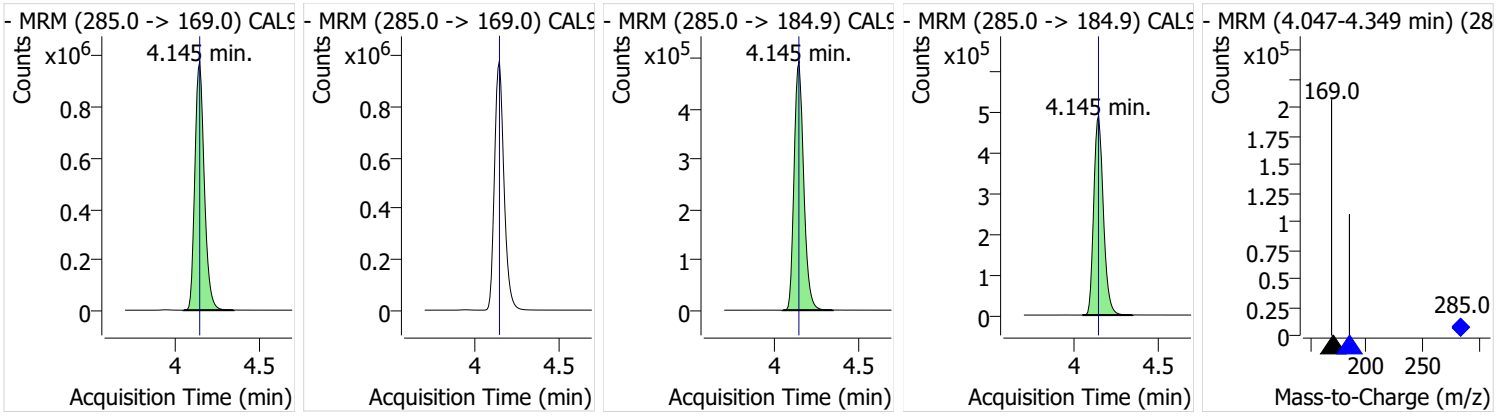
D7-NMeFOSE - ISTD



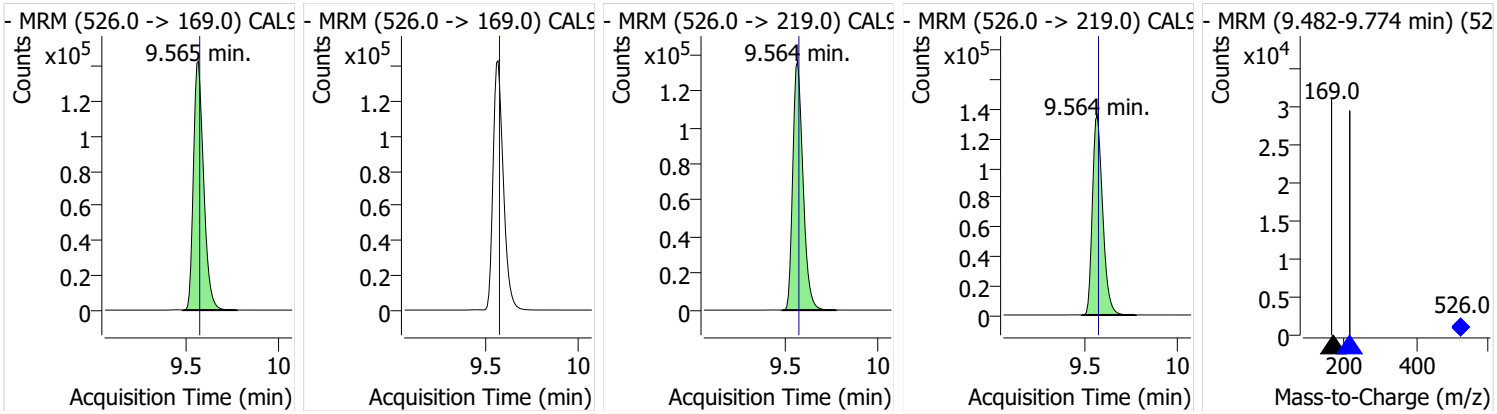
D9-NEtFOSE - ISTD



HFPO-DA



NEtFOSA



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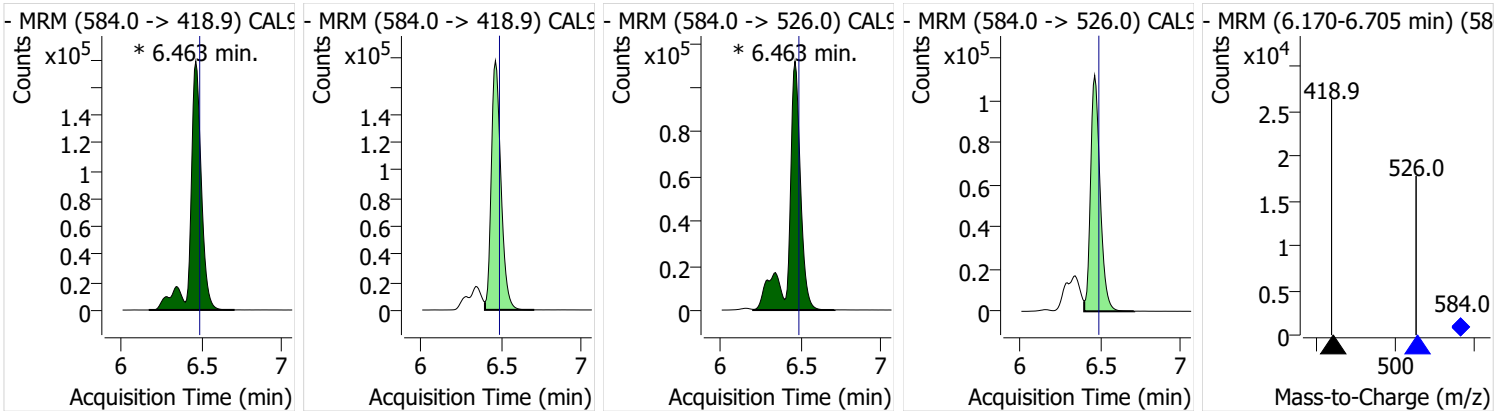

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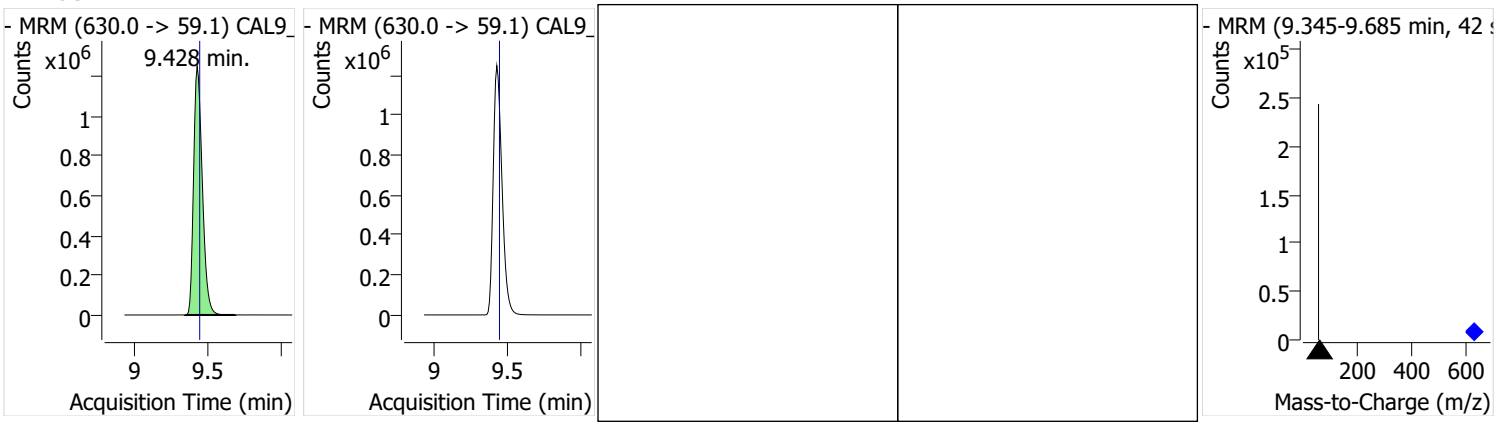

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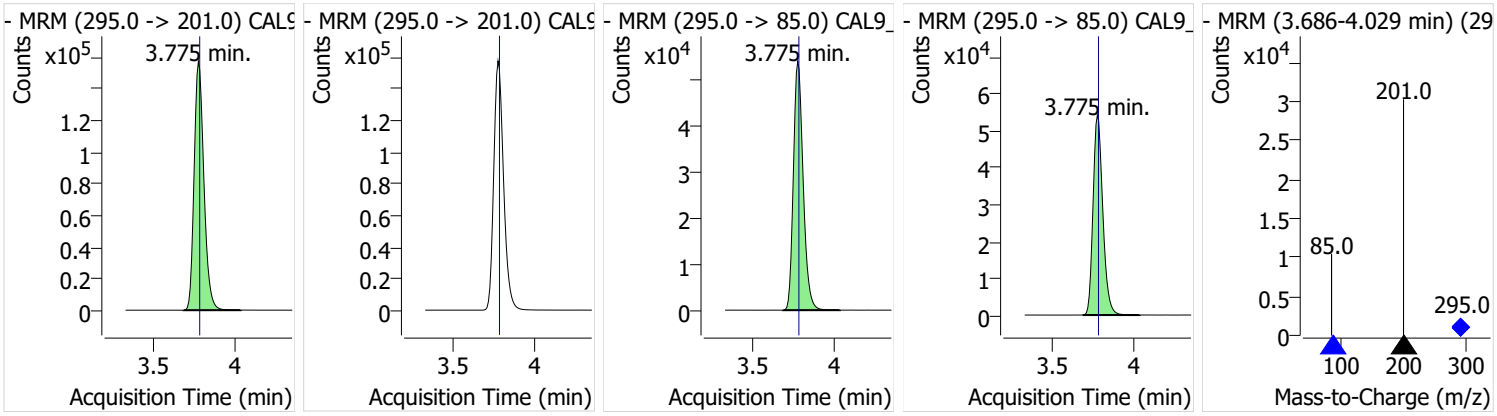

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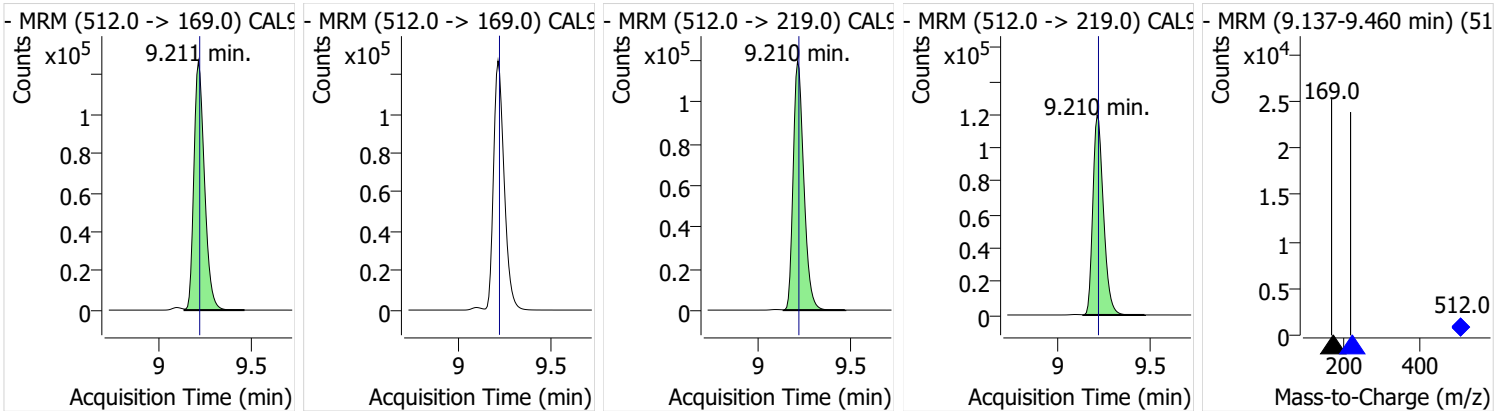

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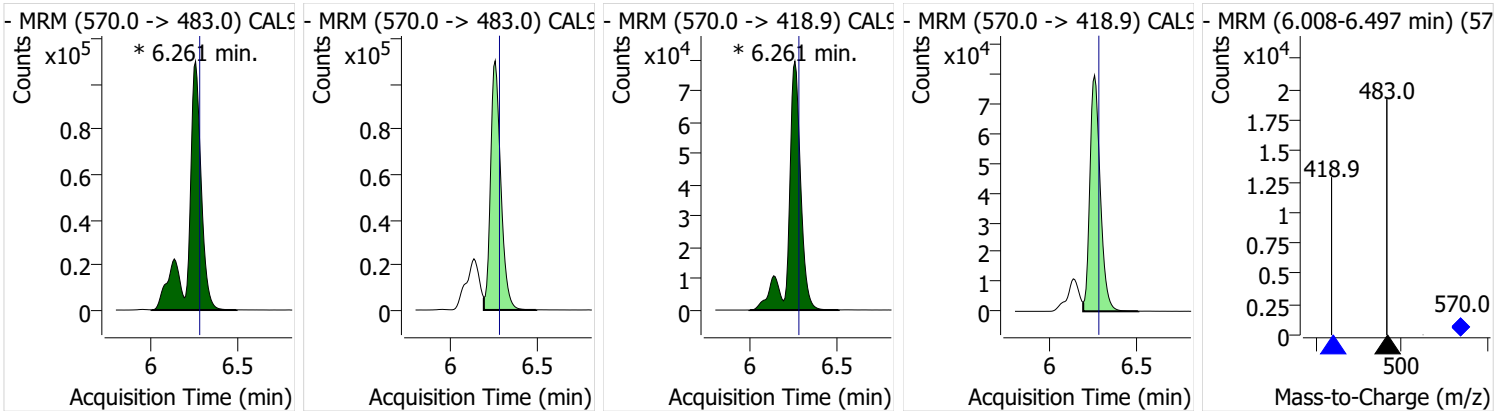

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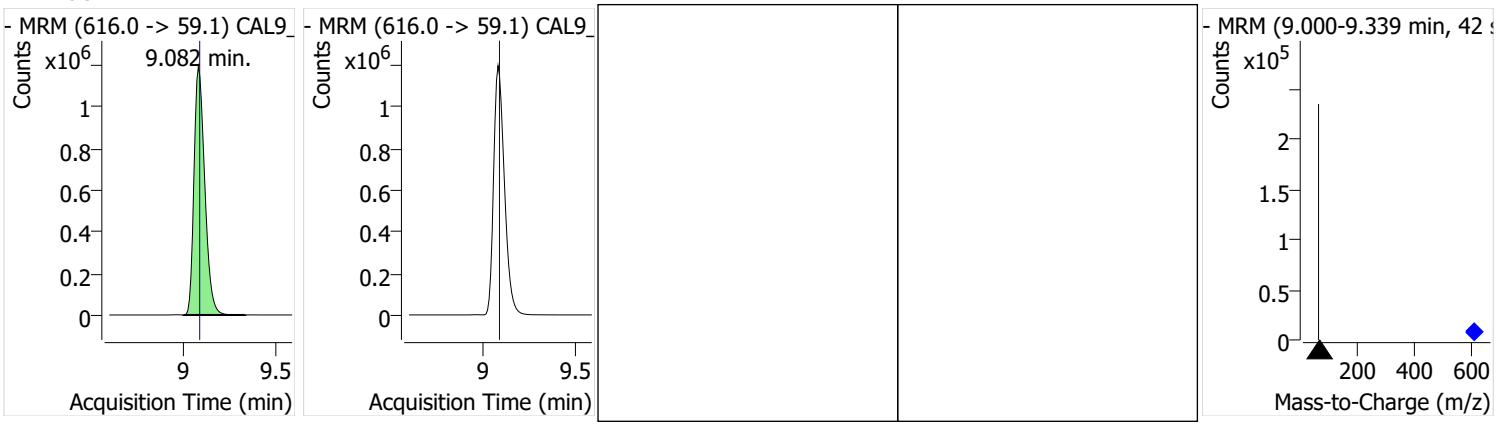

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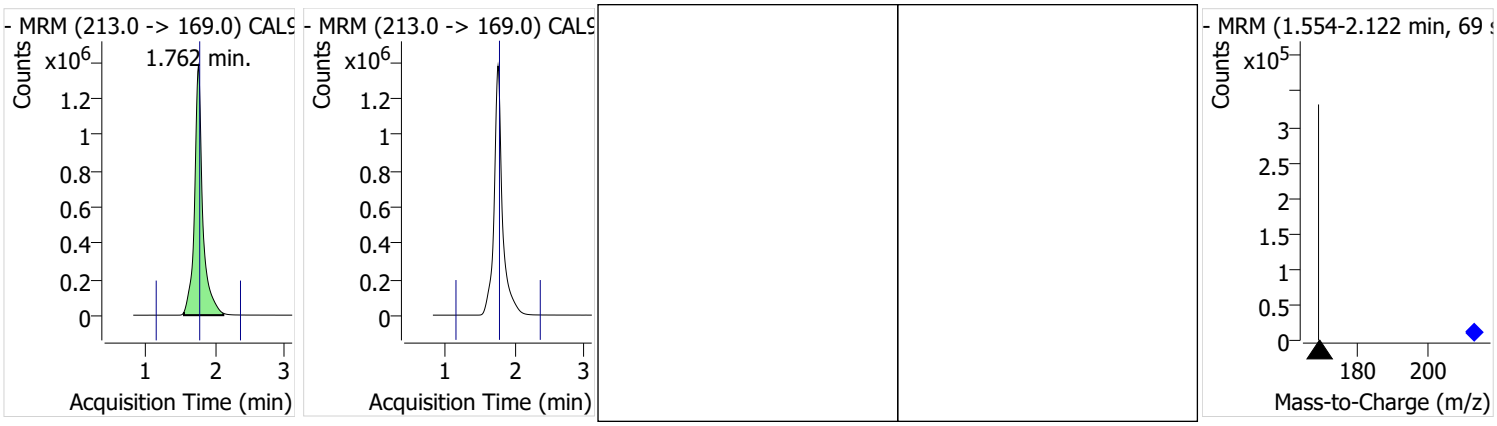

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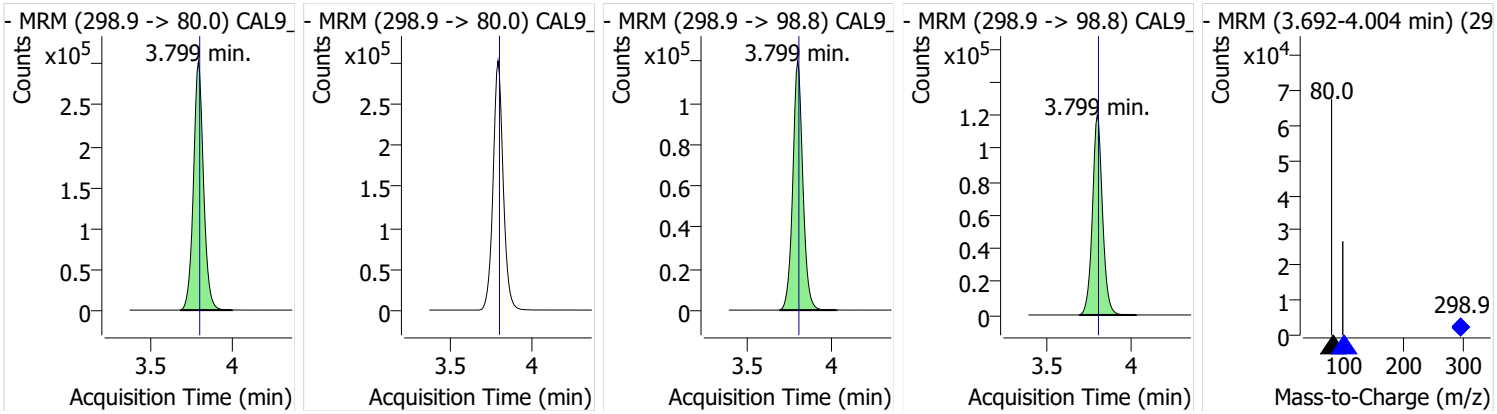

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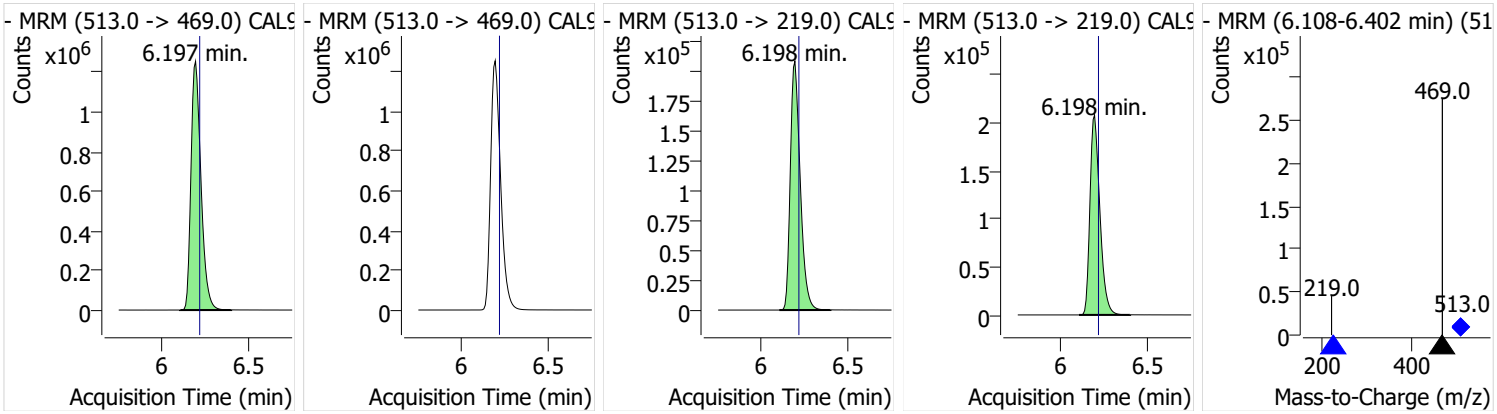

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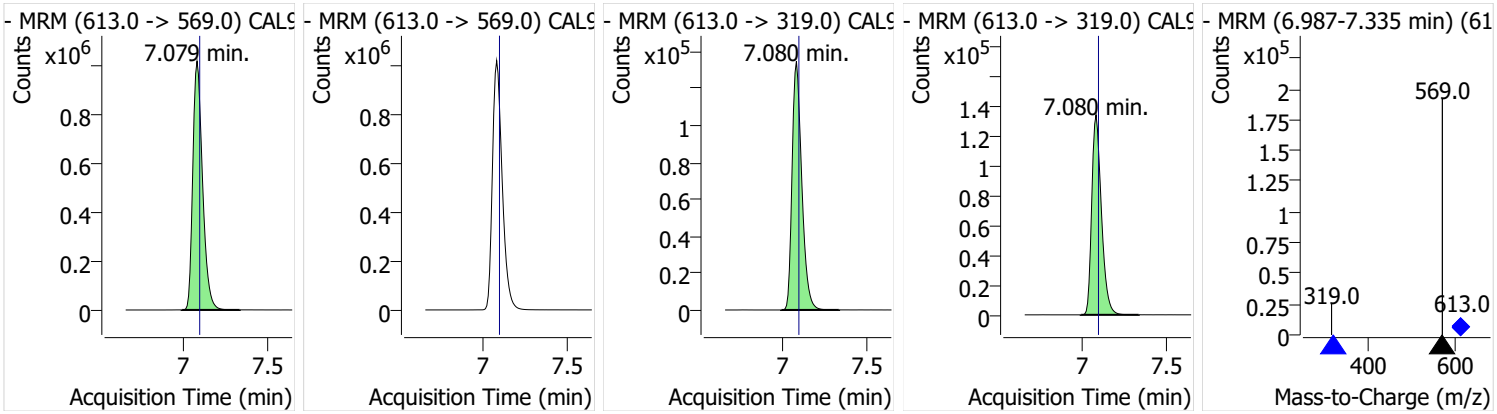

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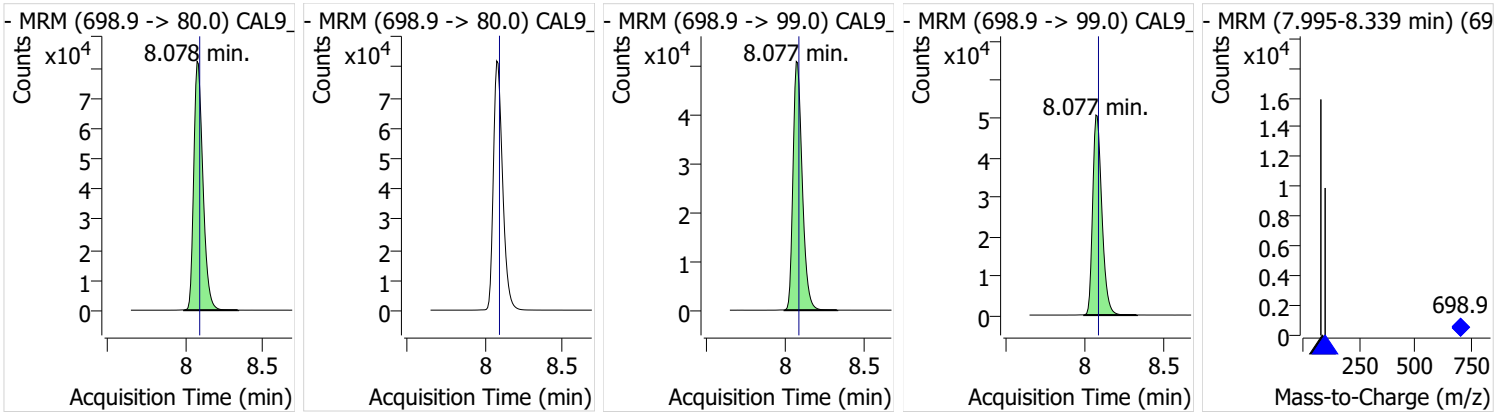

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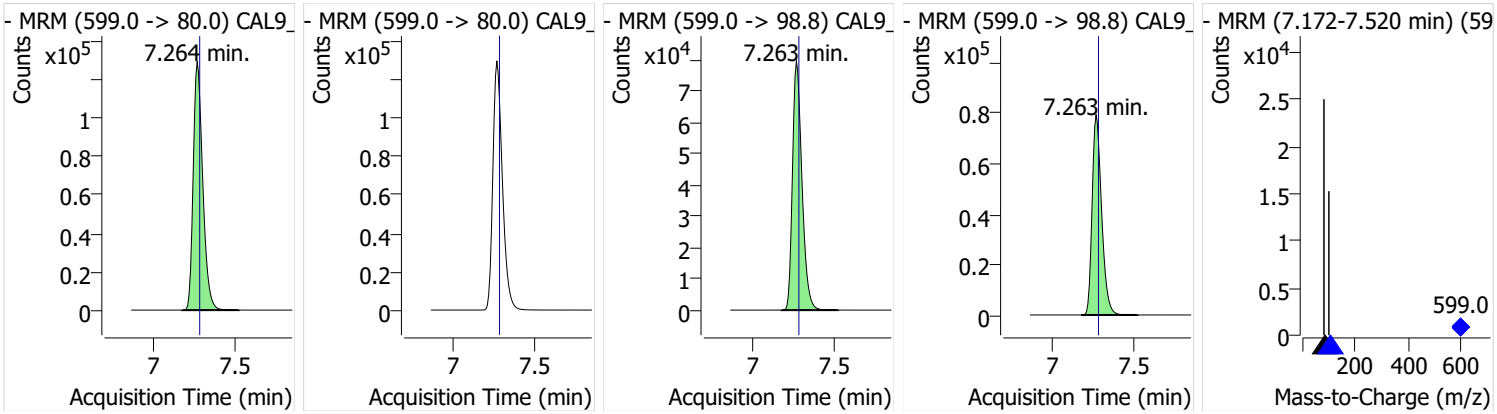

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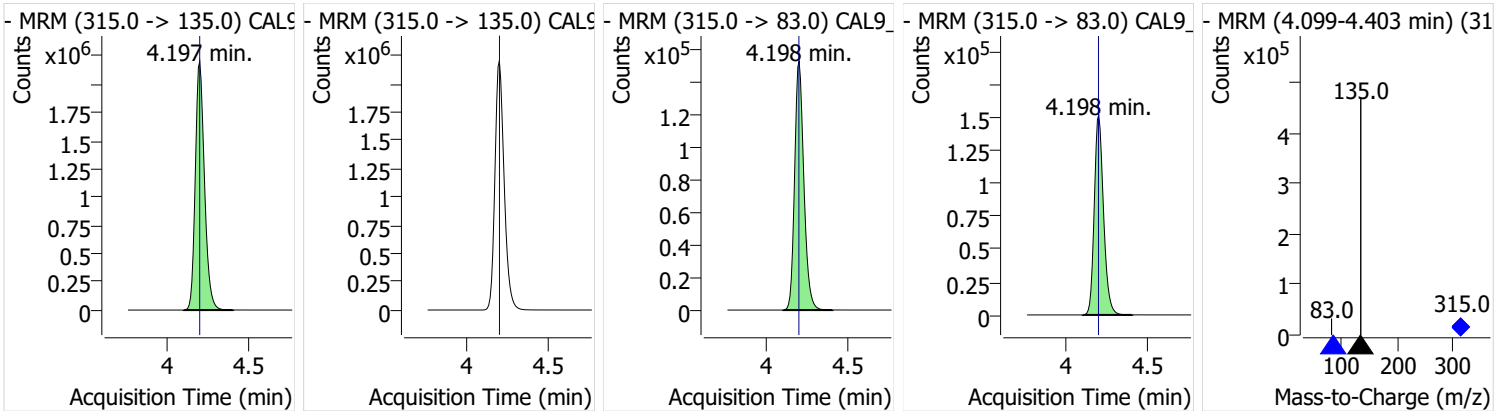

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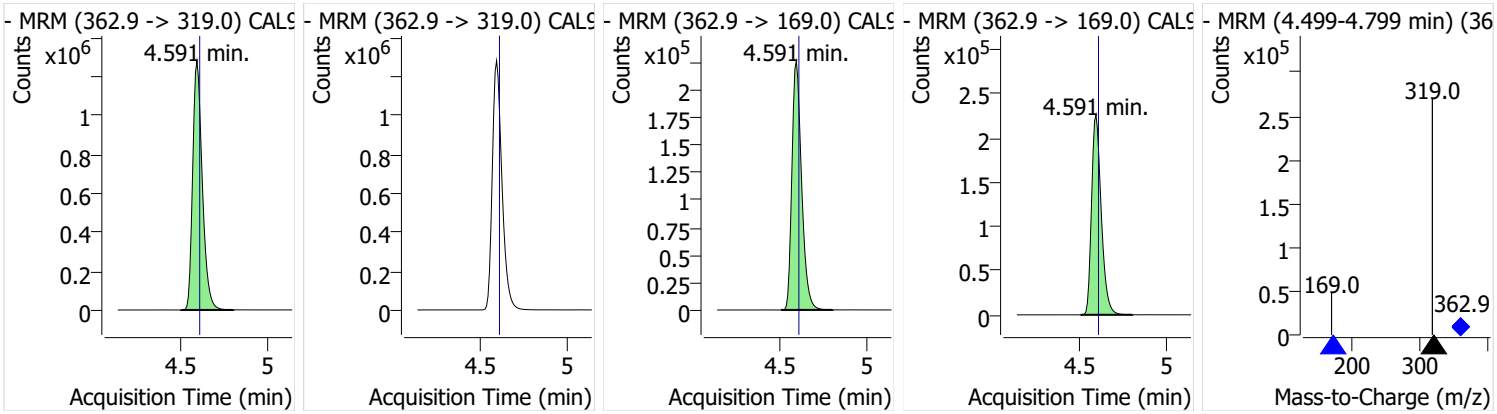

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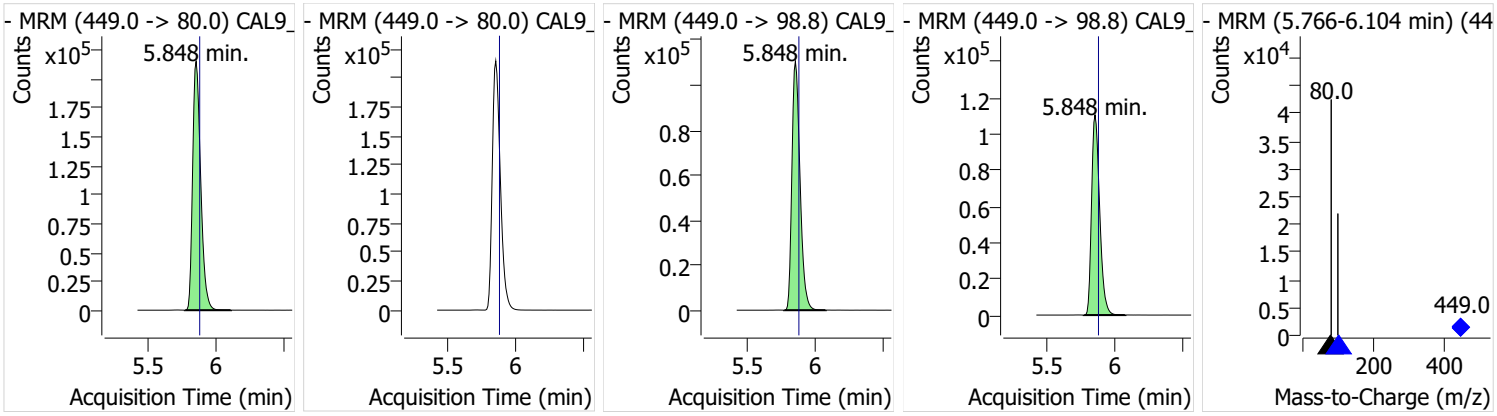

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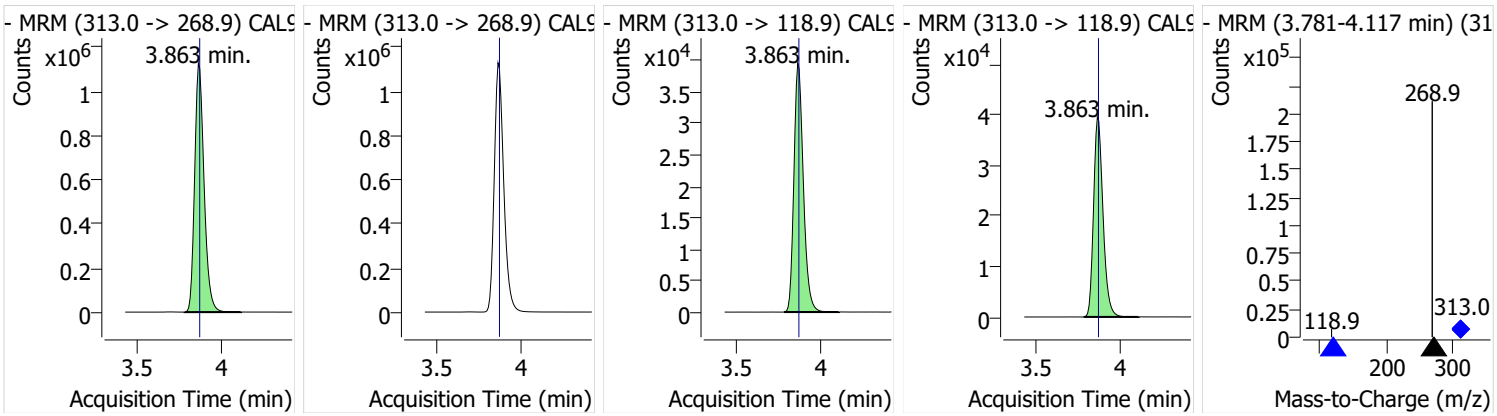

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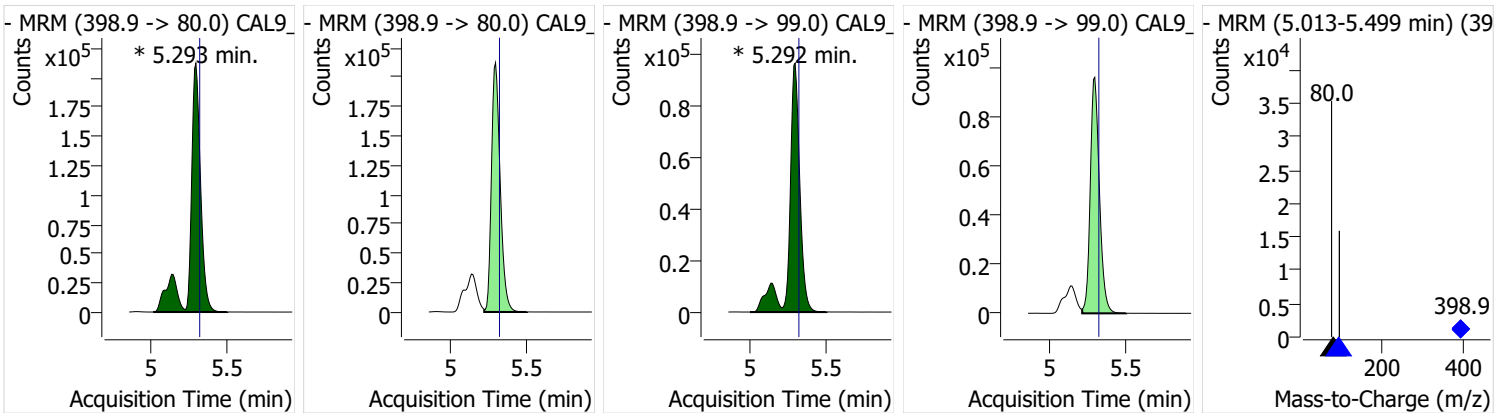

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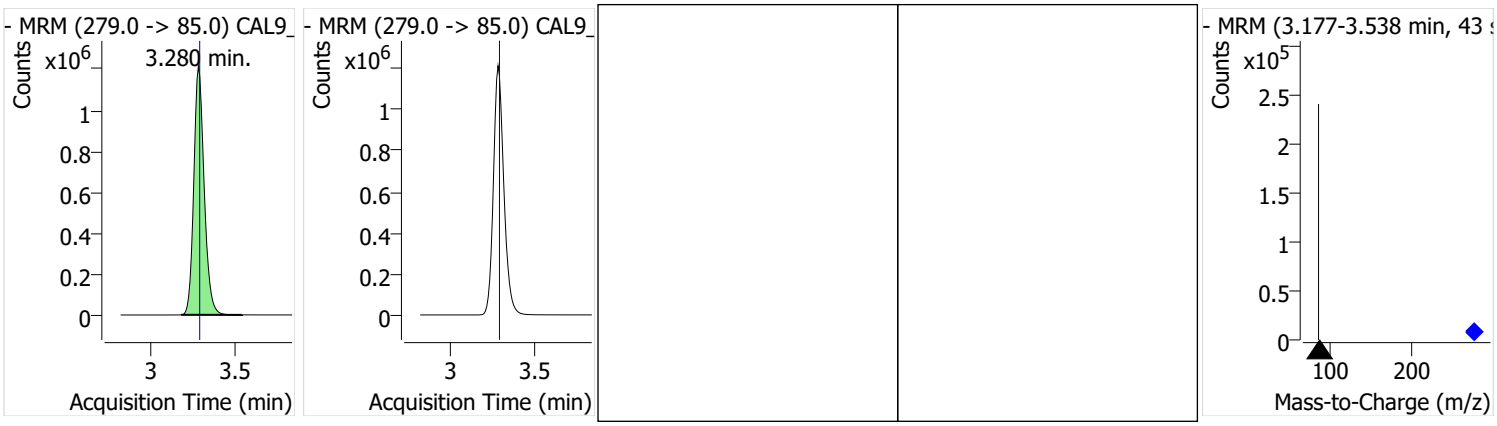

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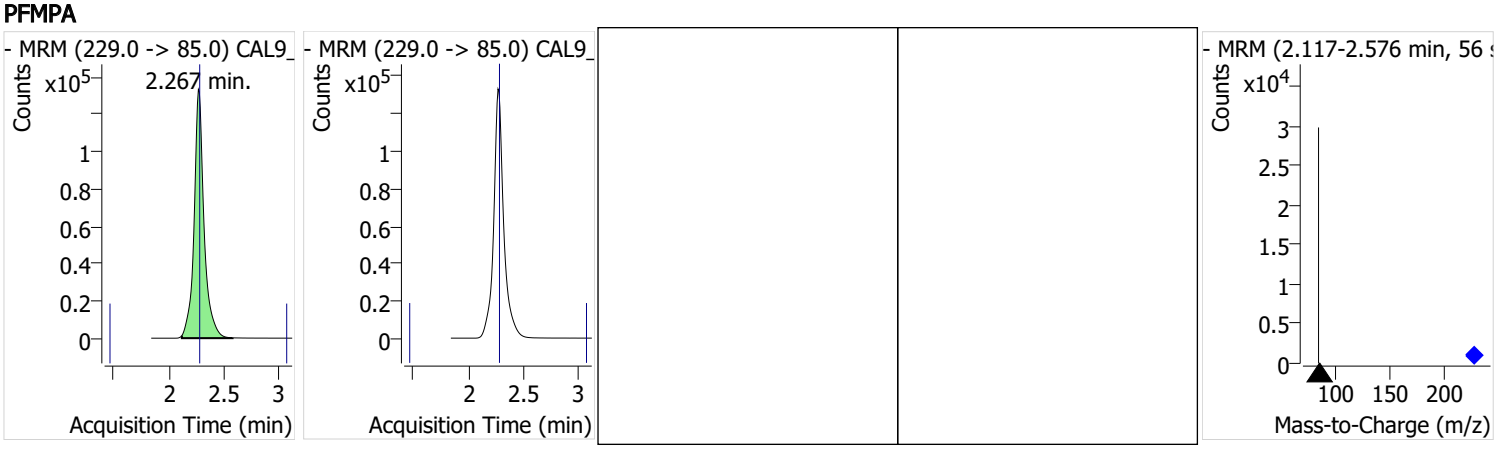

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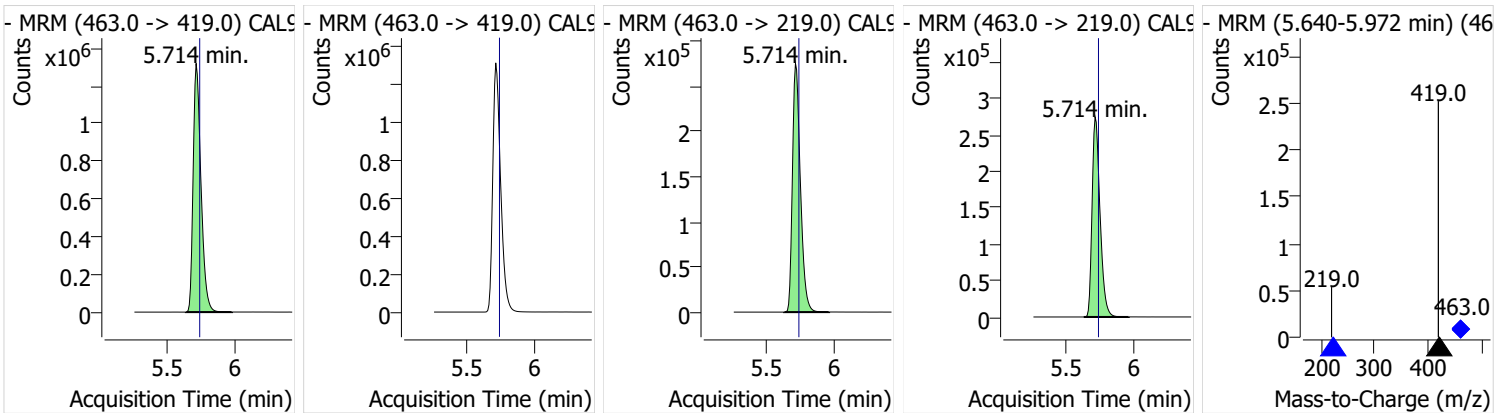

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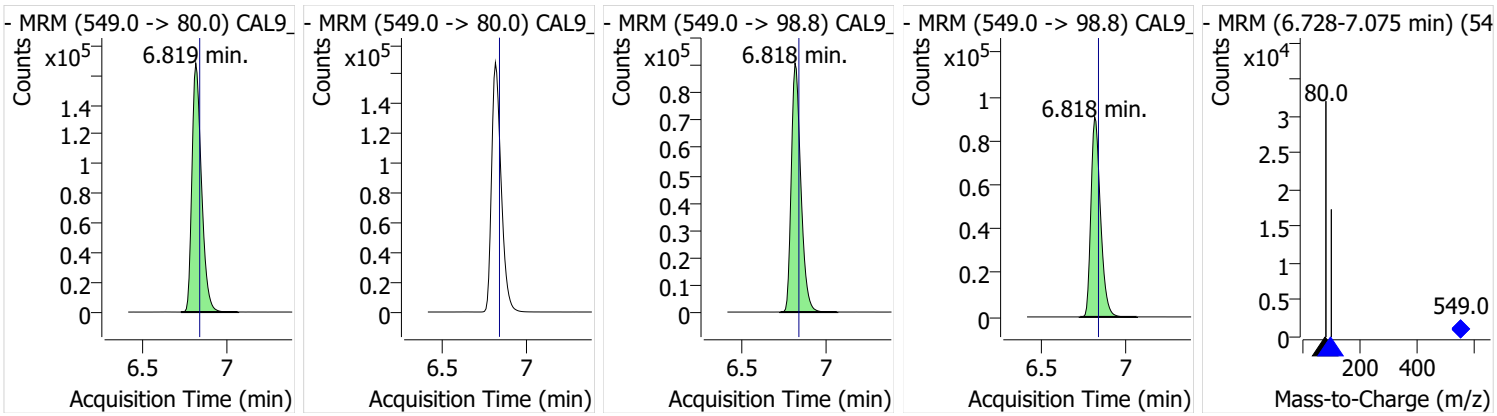

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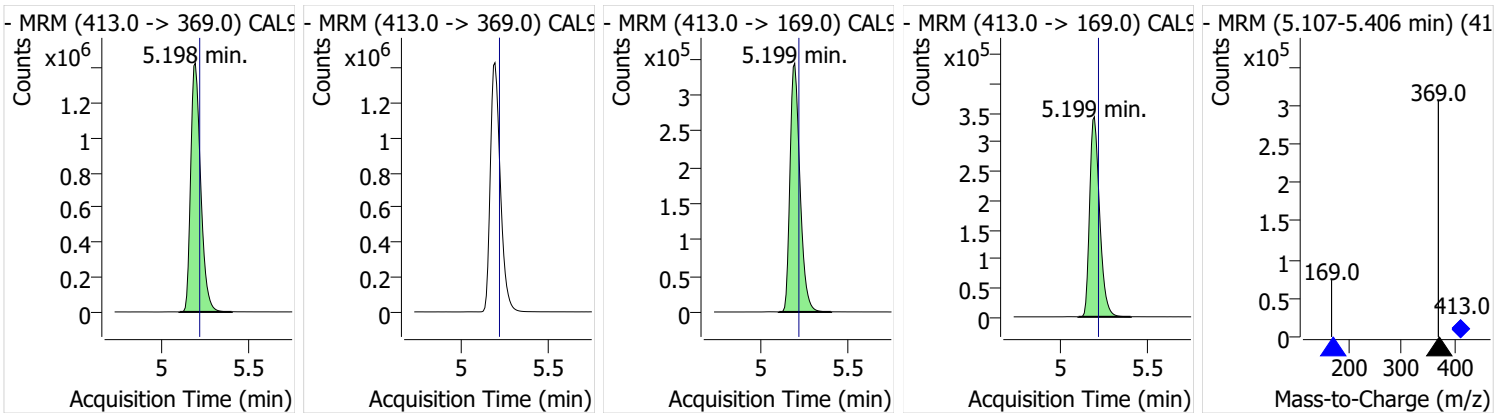

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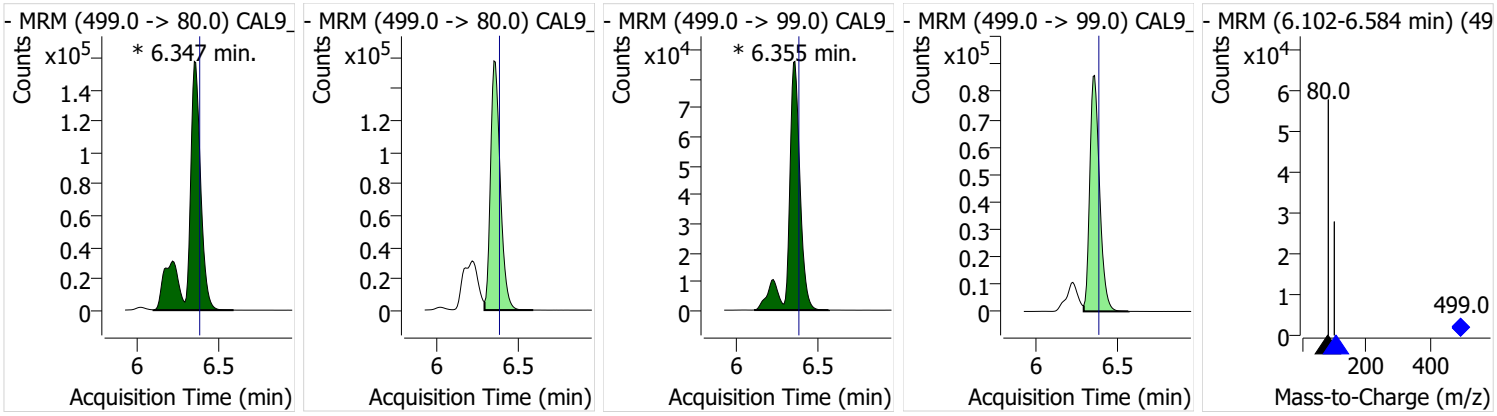

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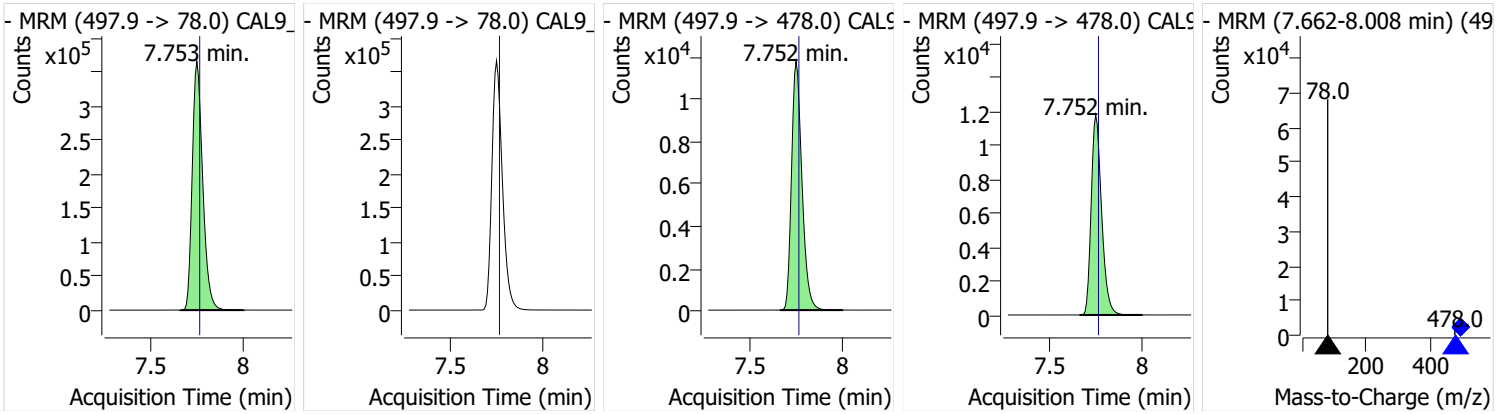

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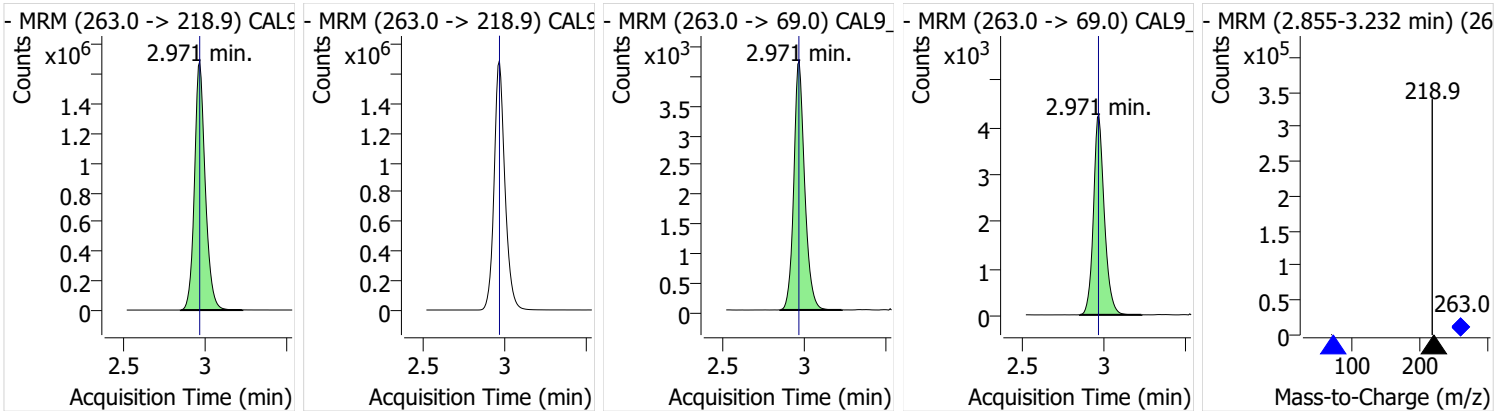

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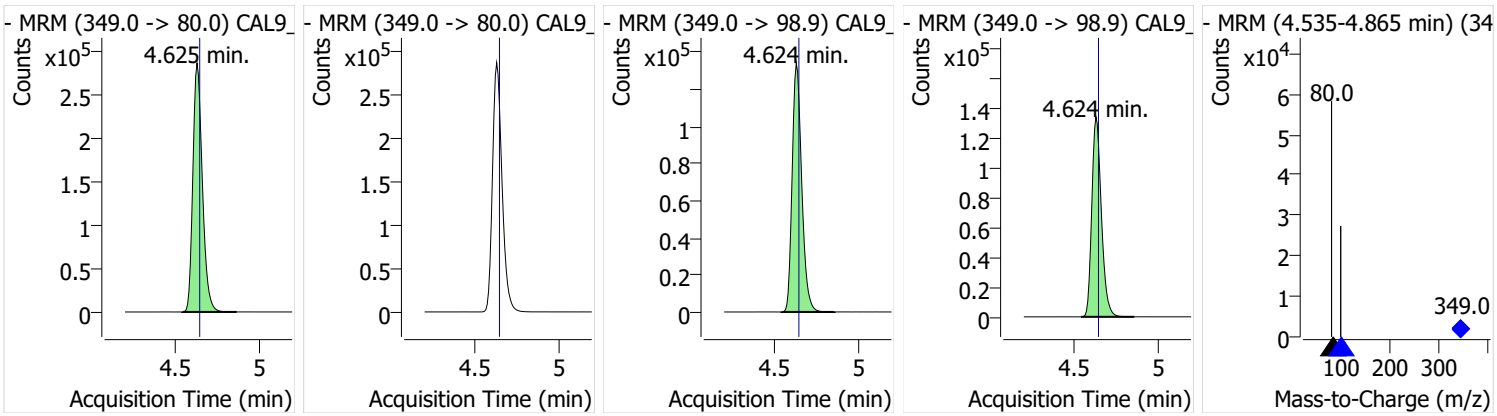

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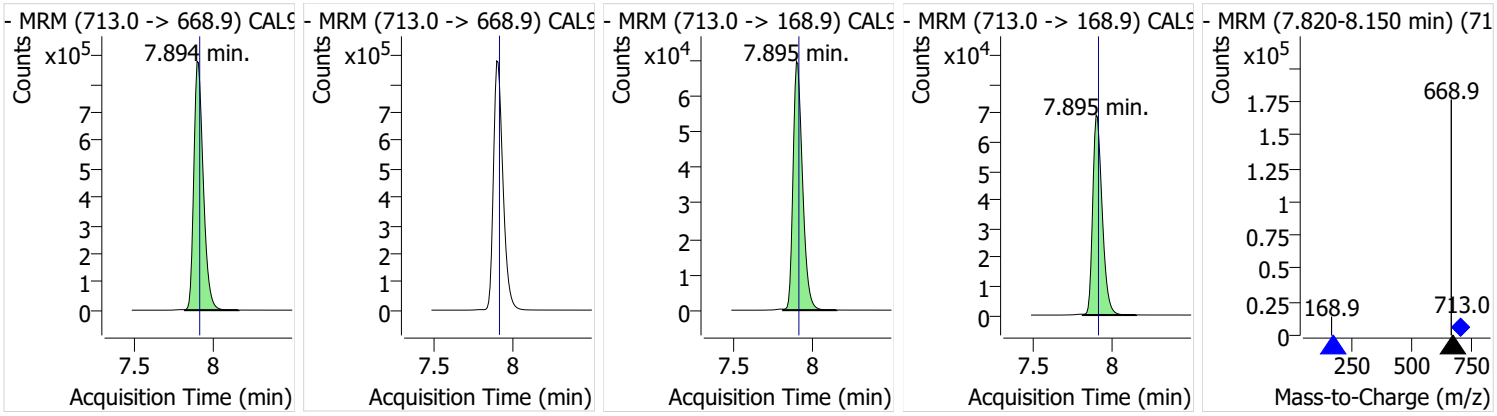

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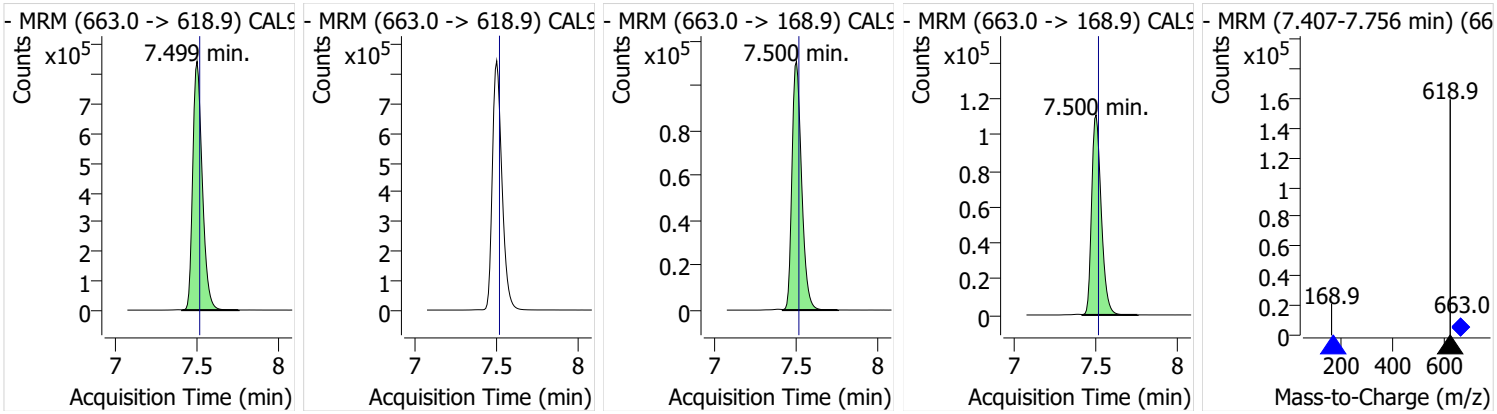

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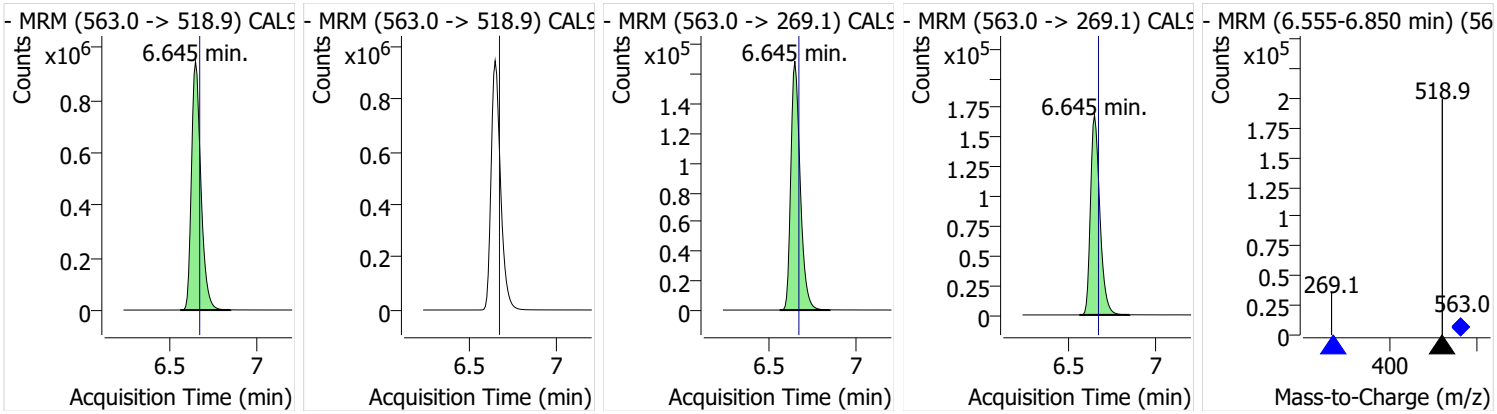

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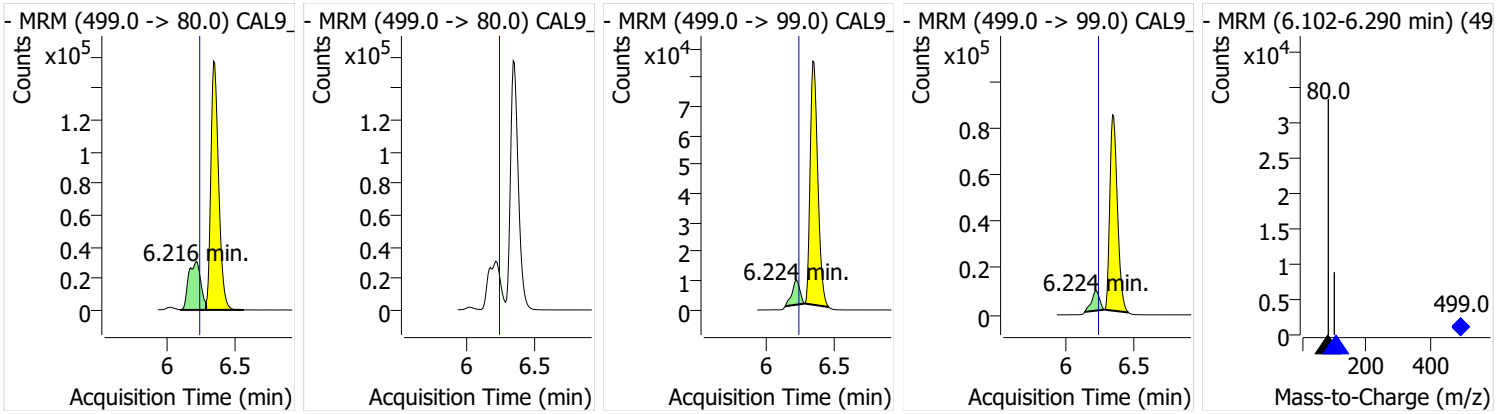

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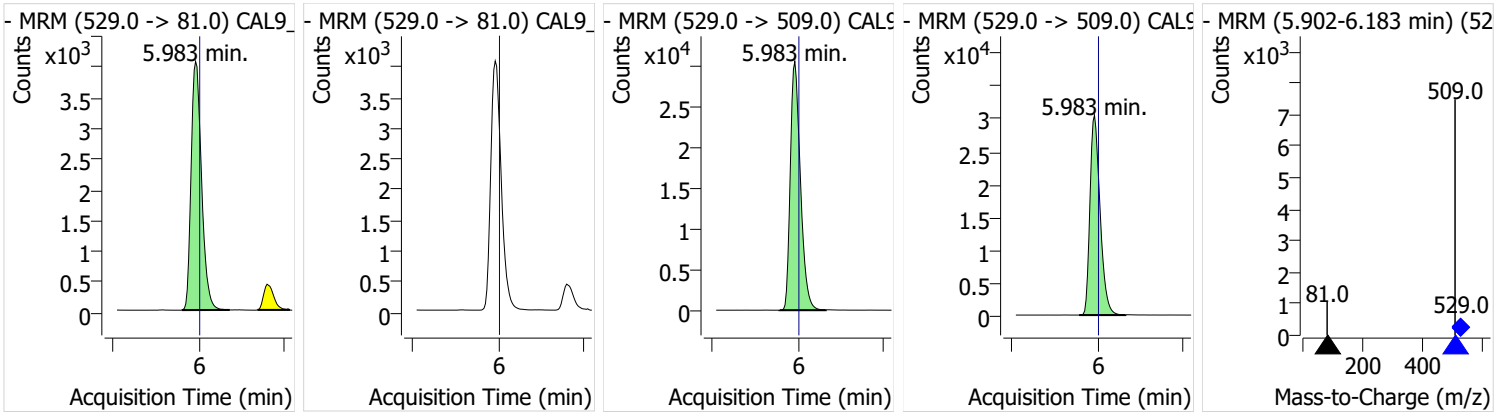

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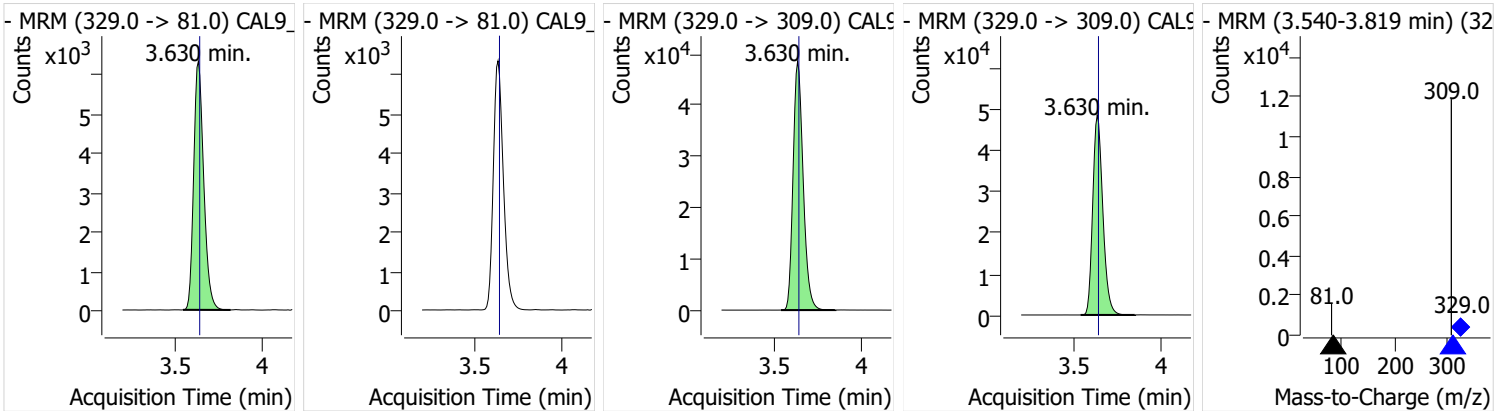

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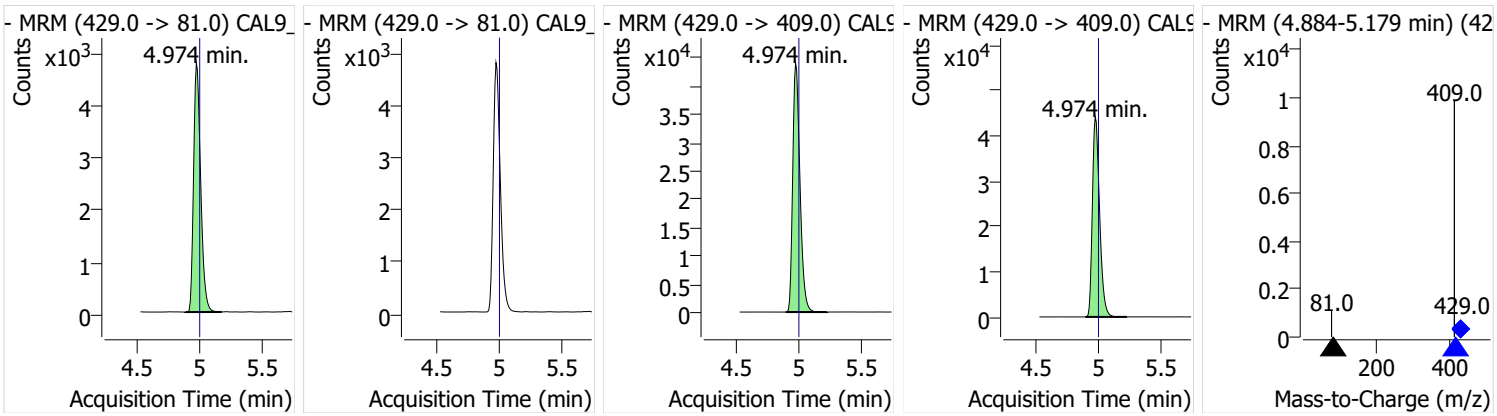

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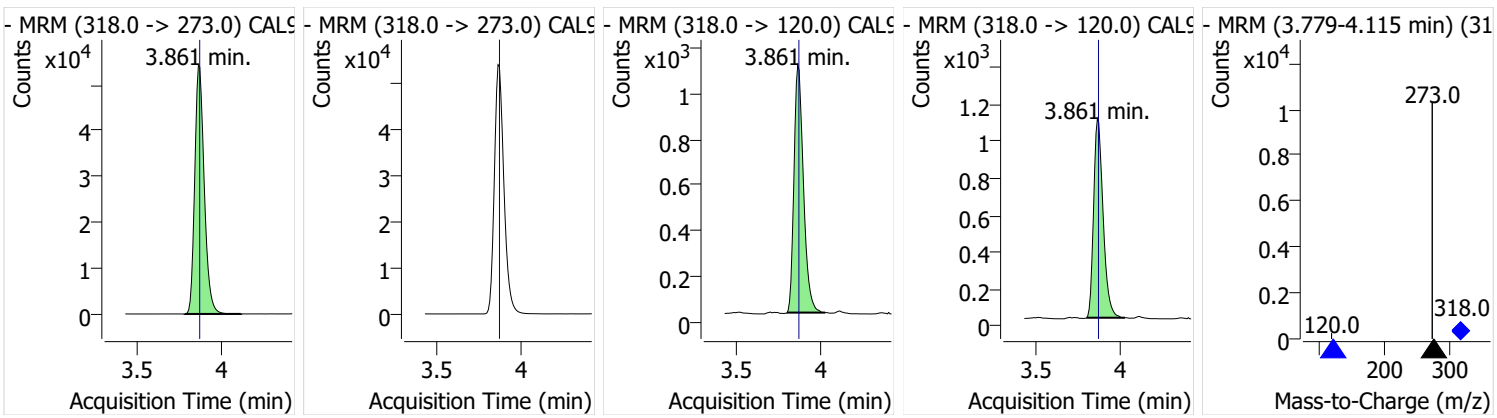

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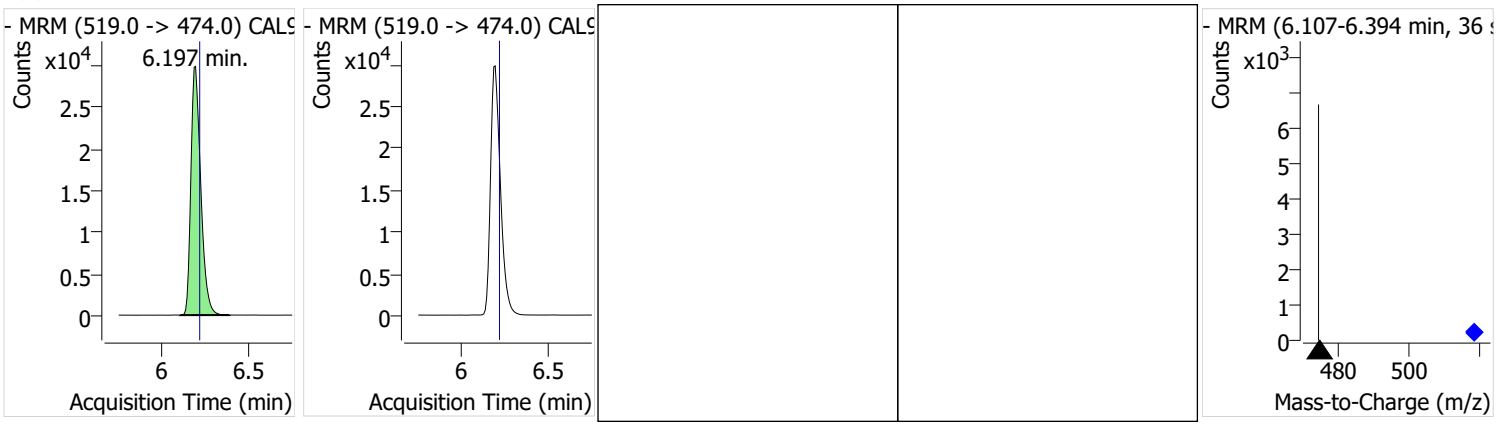

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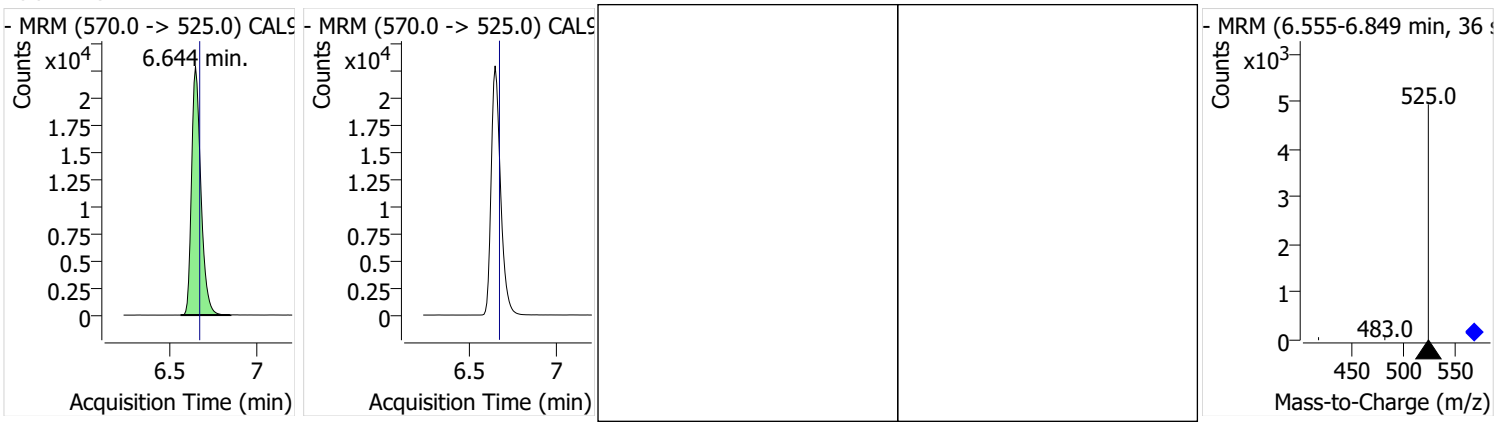

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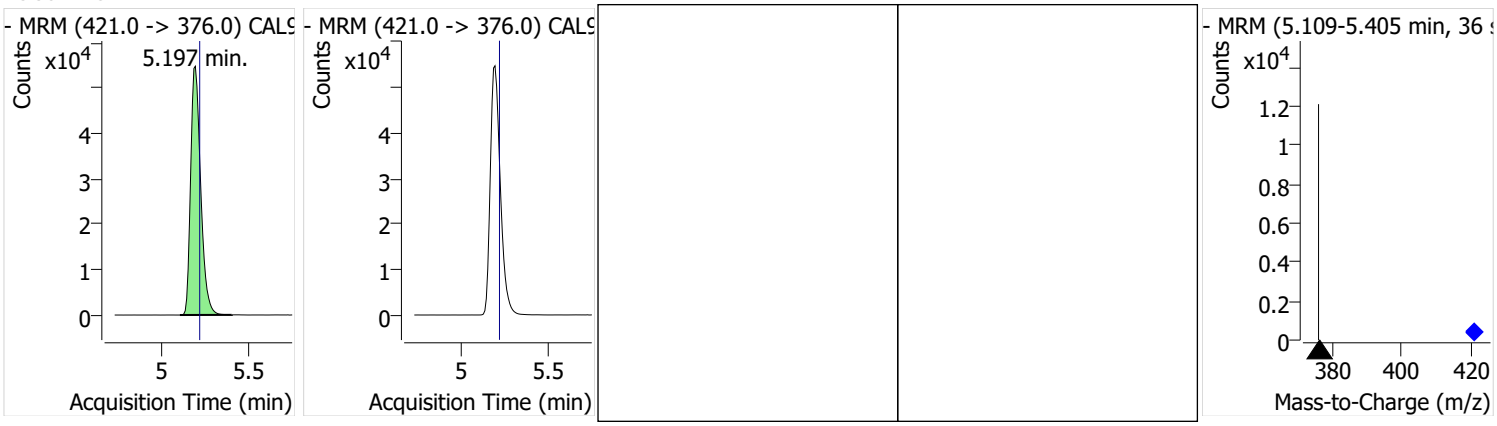

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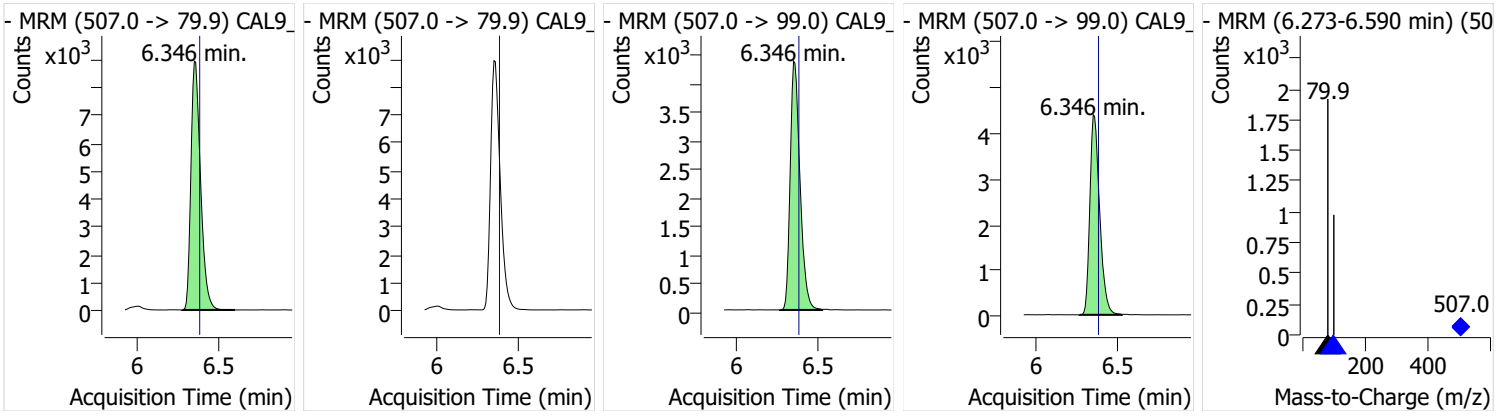

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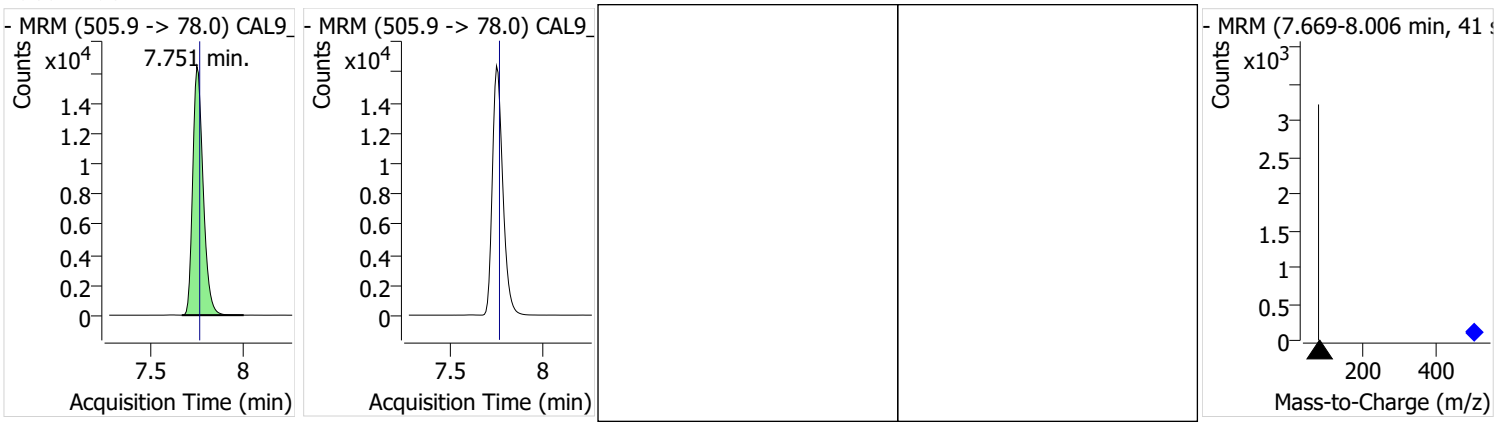

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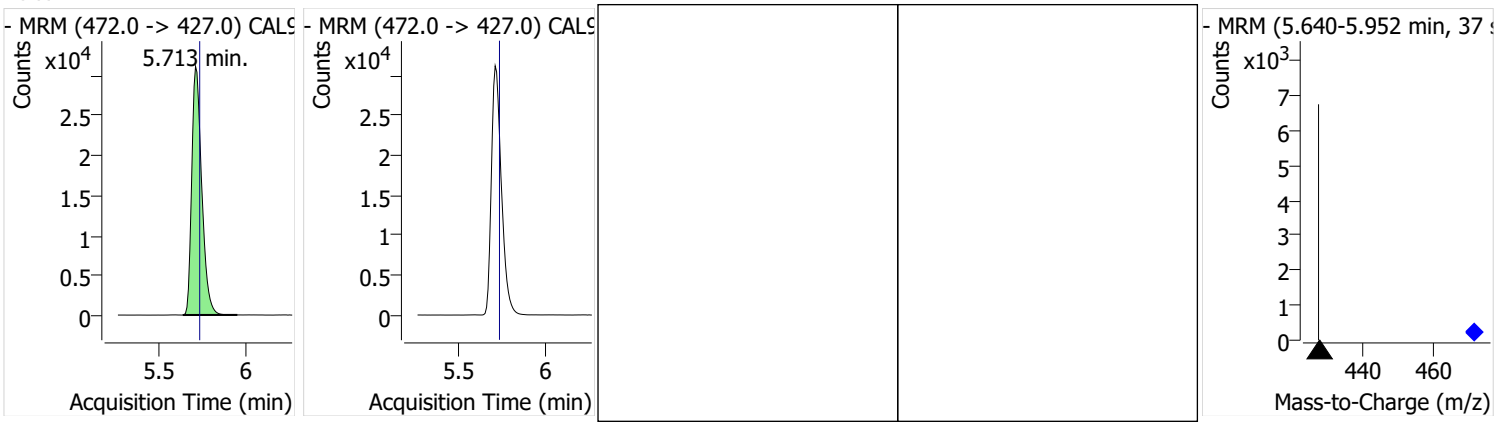

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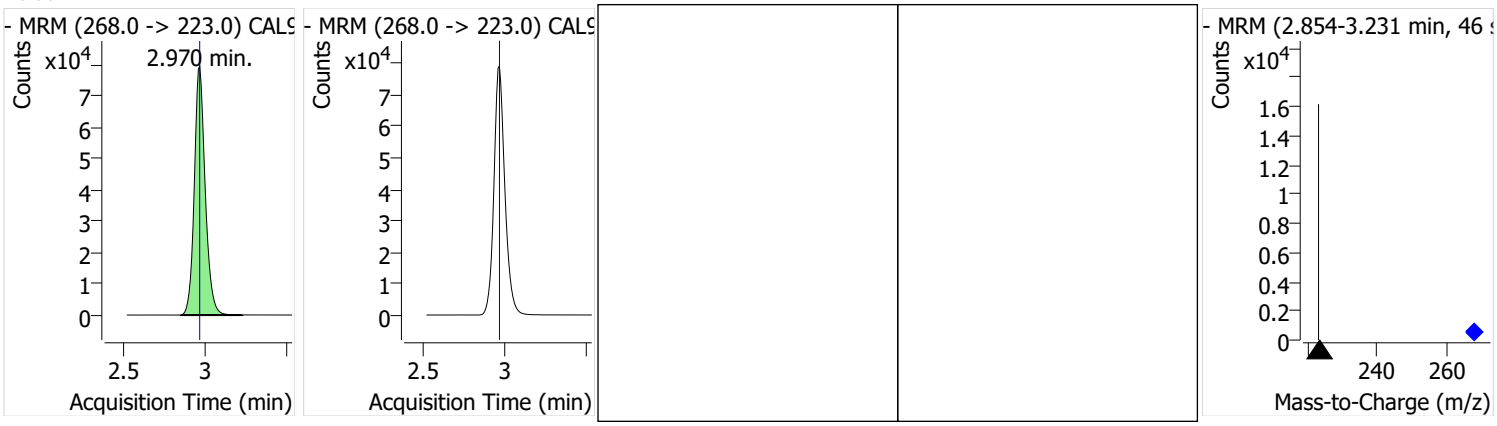

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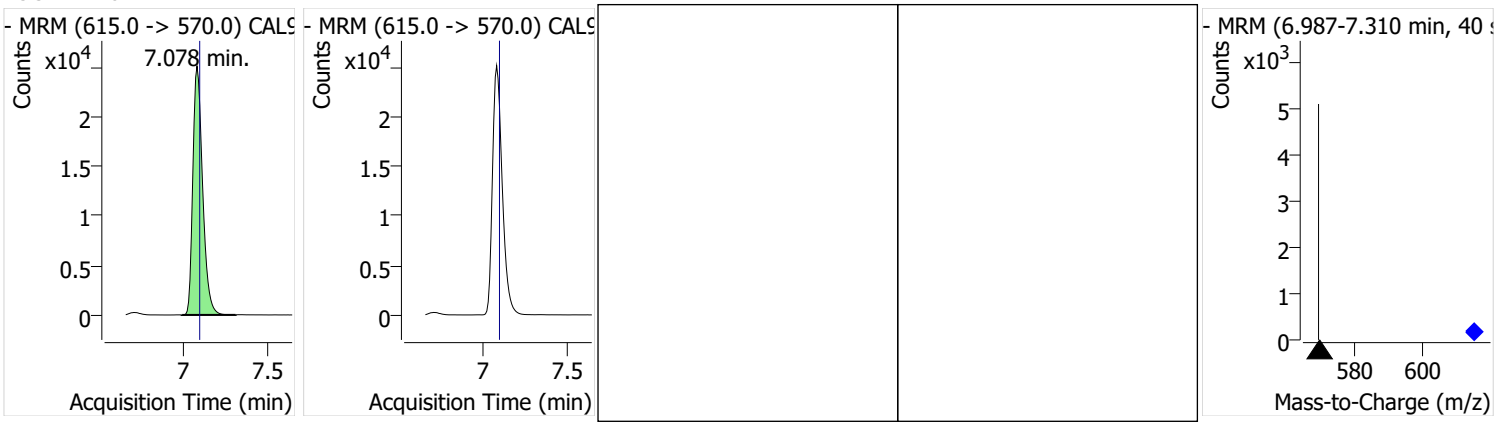

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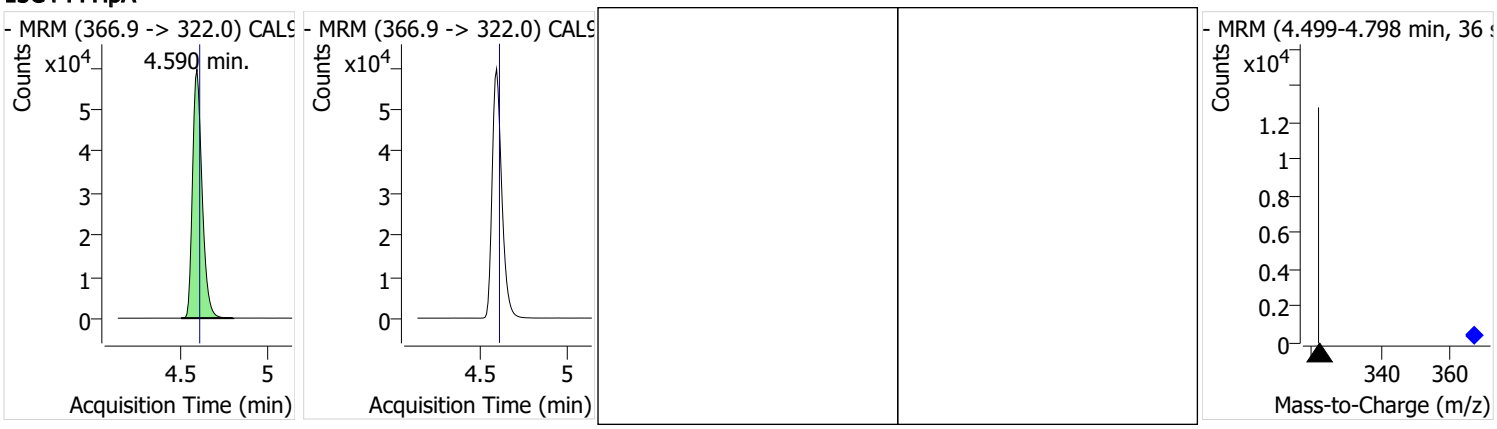

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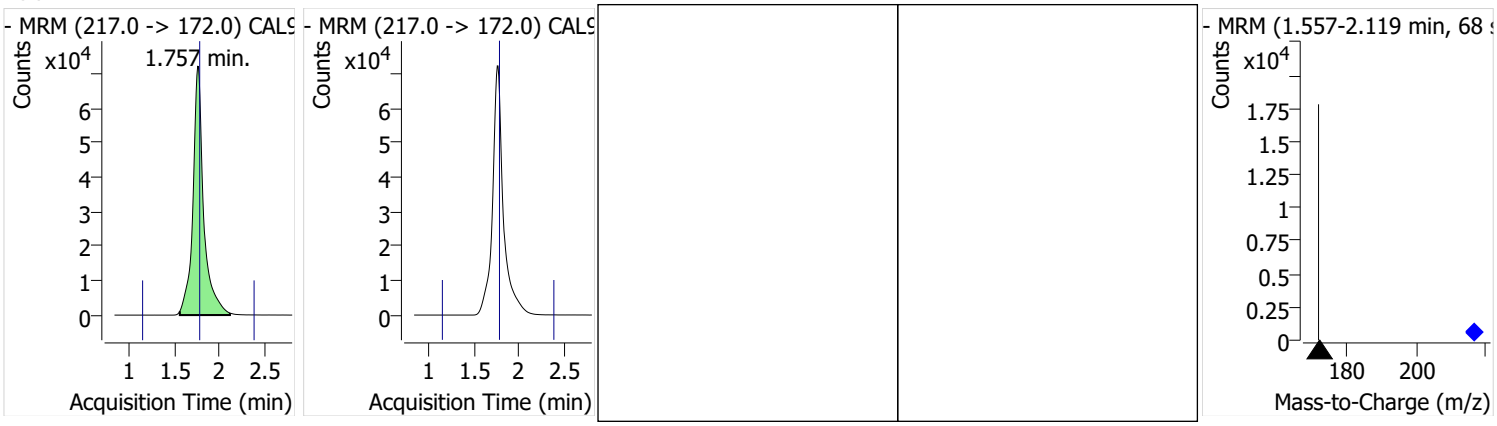

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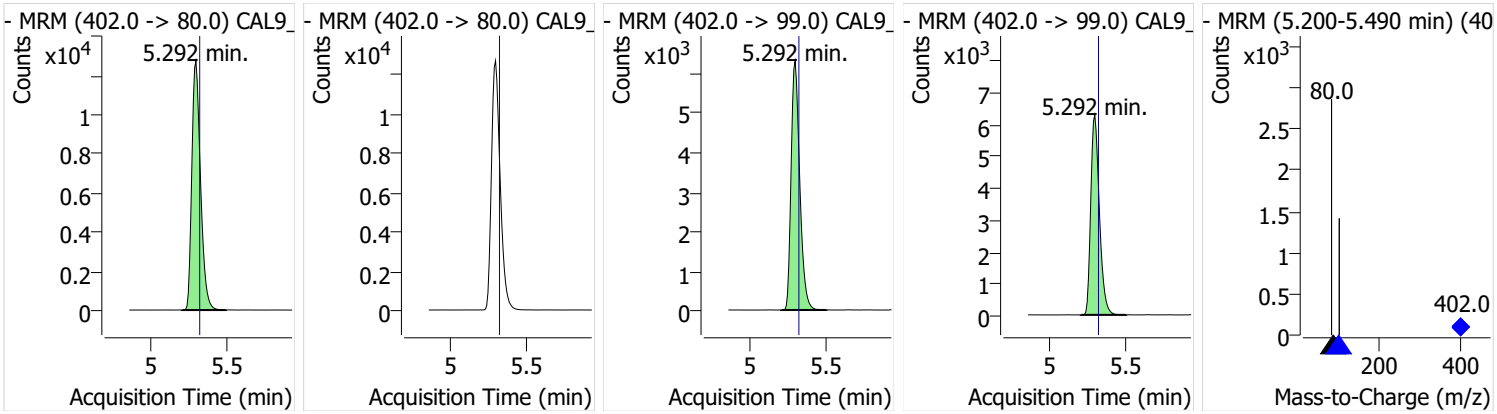

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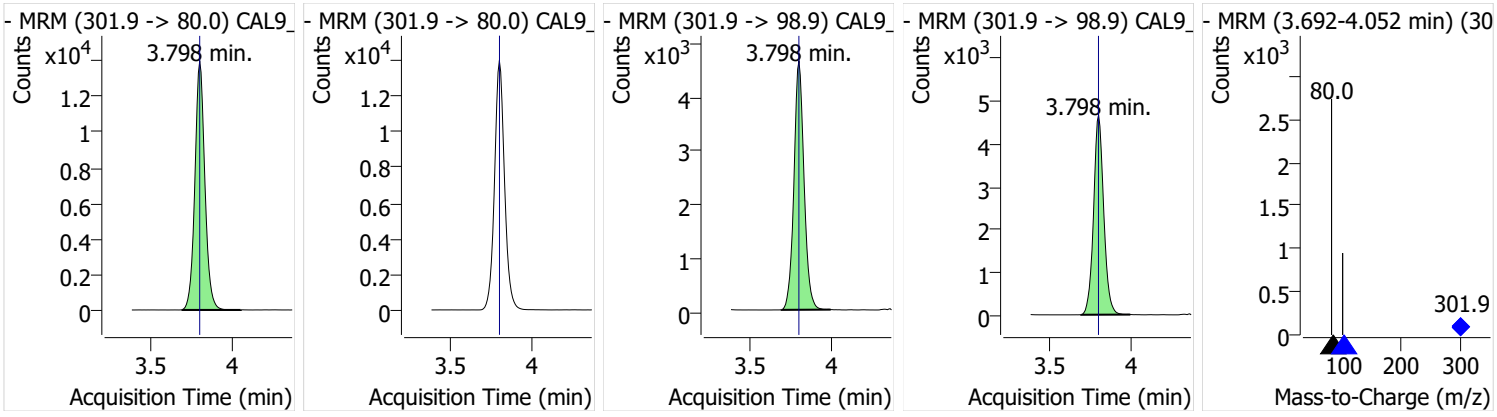

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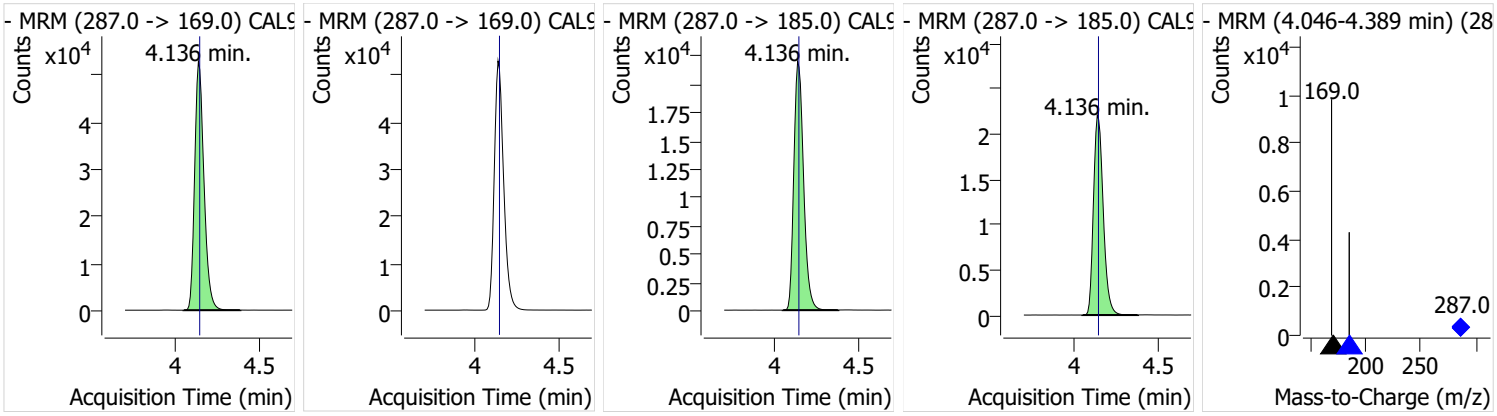

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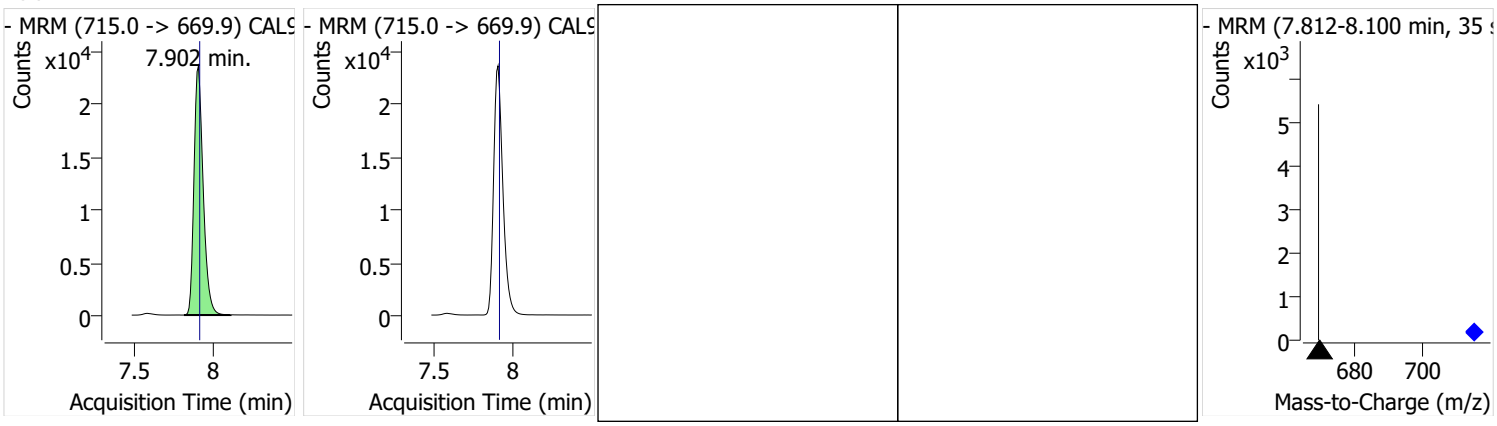

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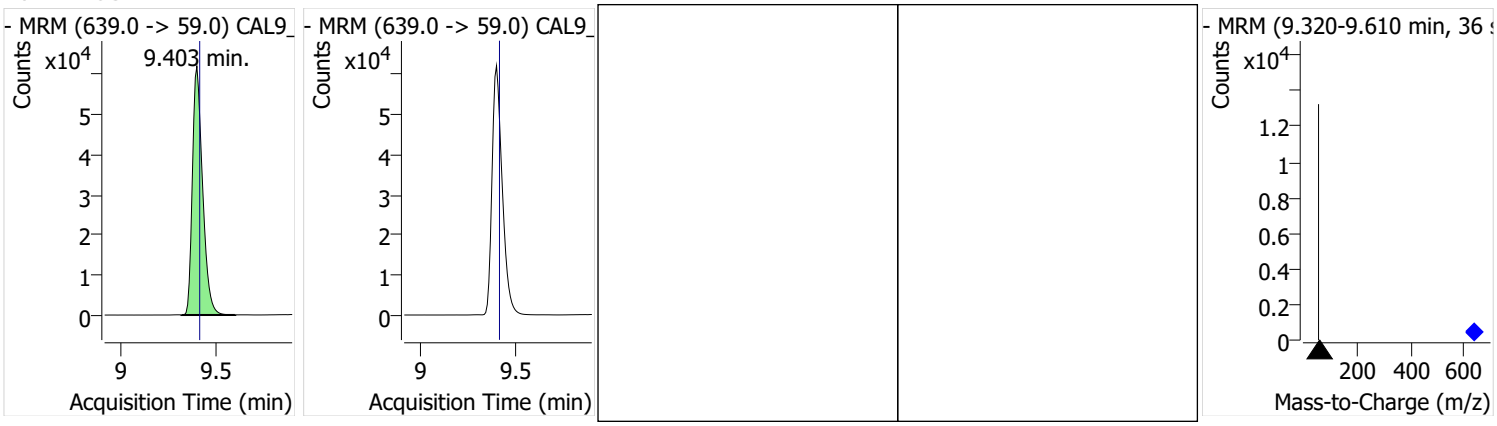

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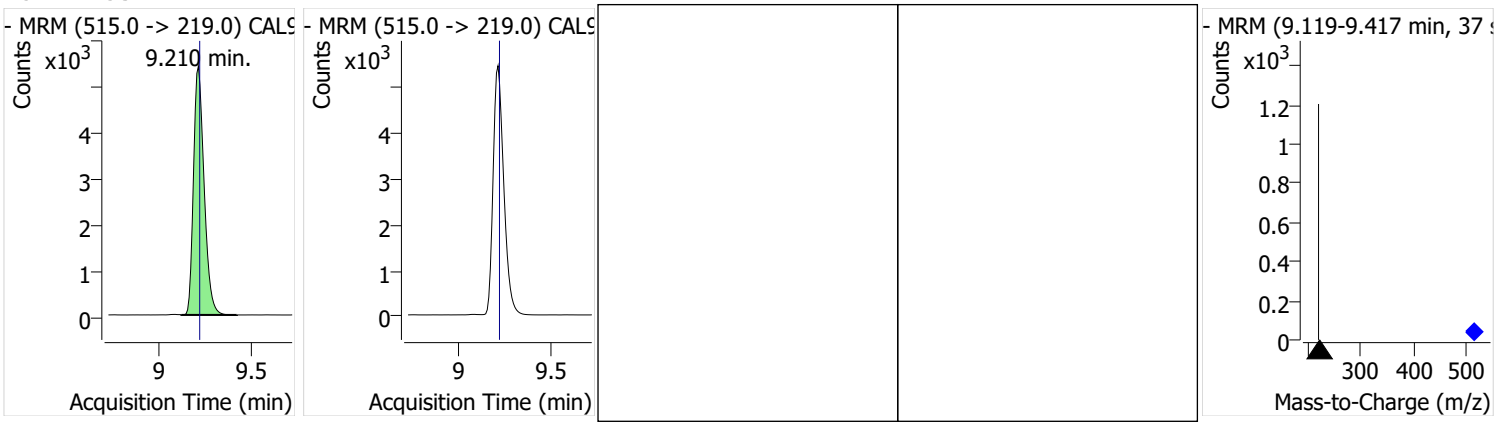

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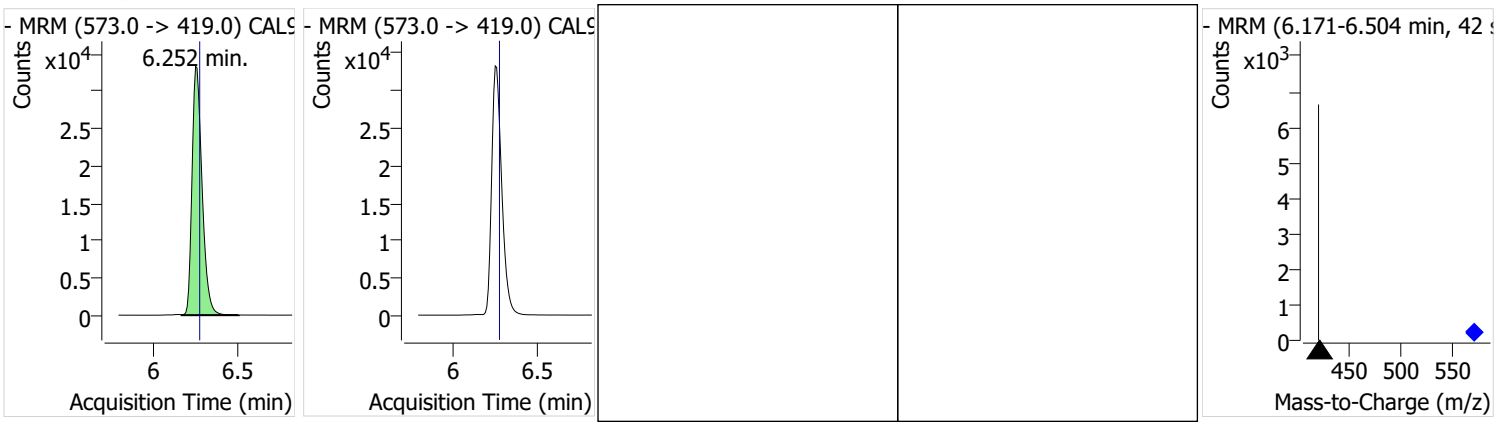

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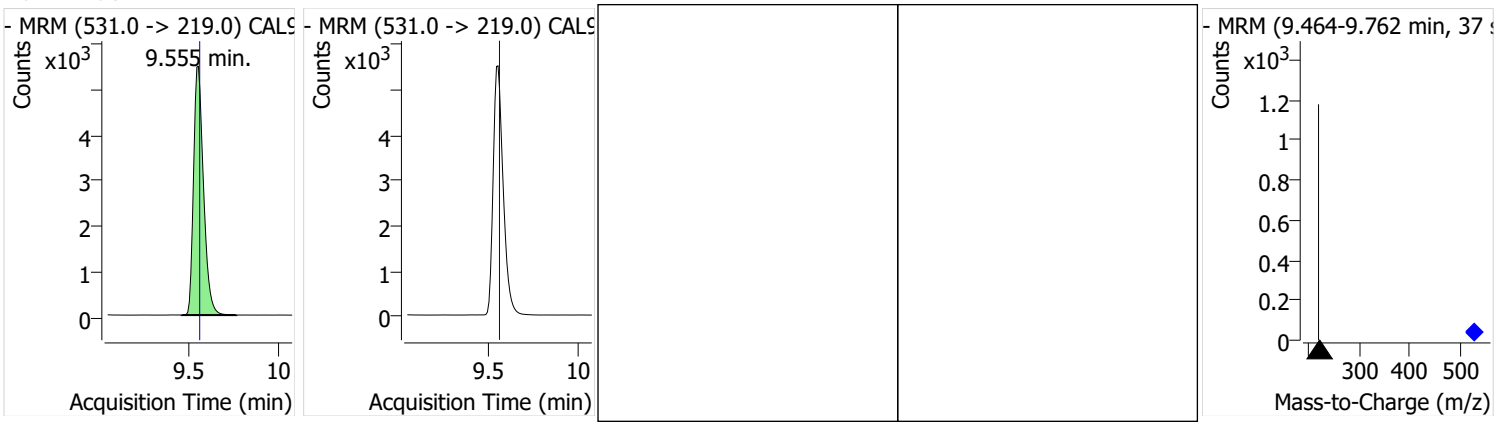

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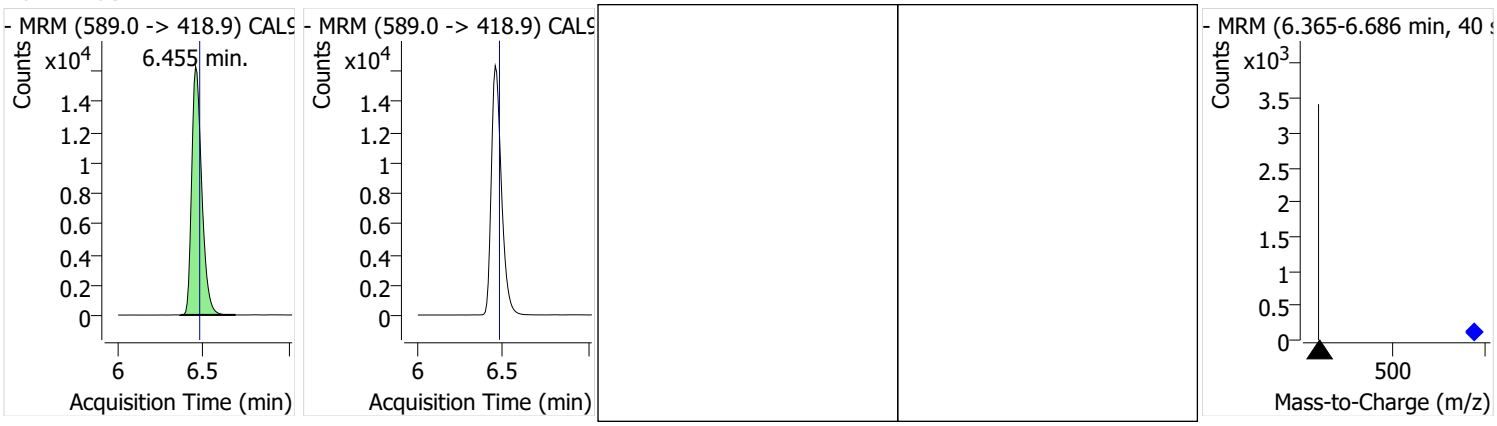

D7-NMeFOSE

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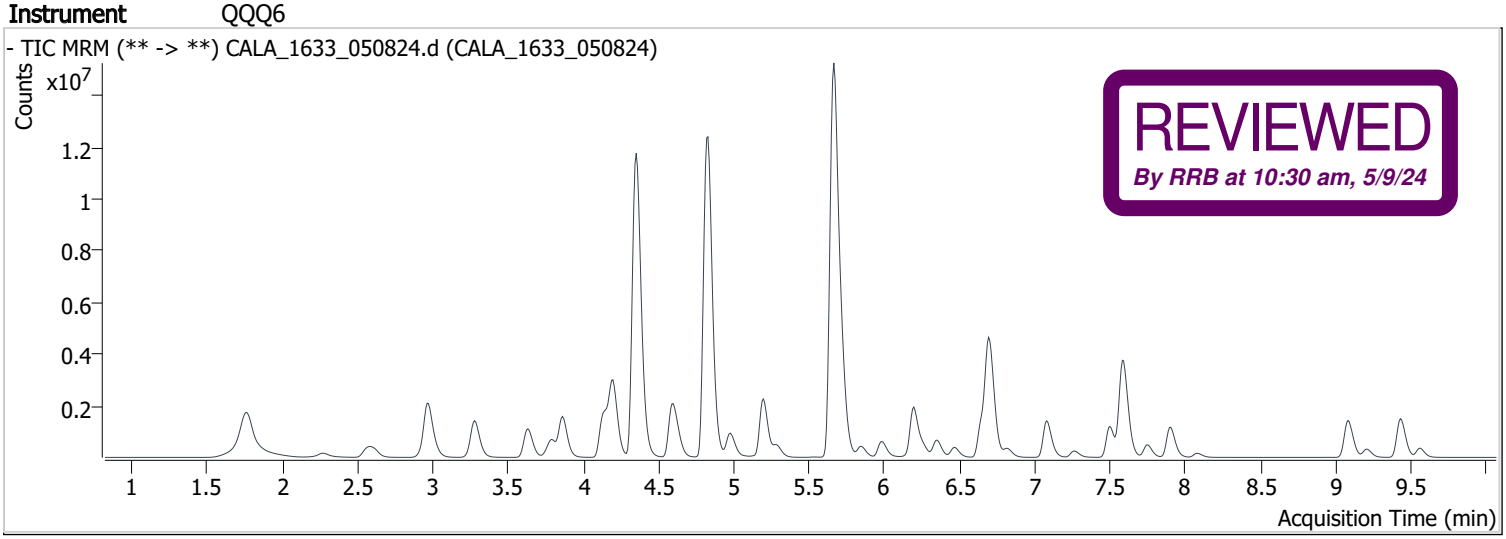
Sample Type	Cal	**Sample Name**	CALA_1633_050824
Dilution	1	**Acq. Method**	1633_ACQUISITION_01.m
Sample Comment	E#24E0163	**Processing method**	1633_042924.m
Instrument	QQQ6		



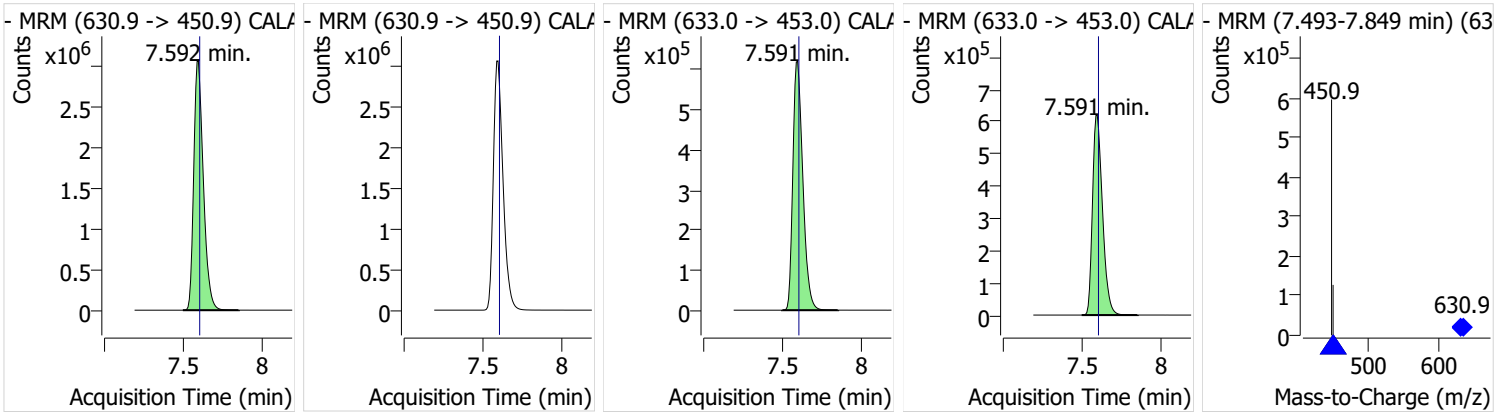
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
11Cl-PF3OUdS	7.592	13022603	597112.99		13C3-HFPODA - ISTD	4.136	198537	222.2677	ng/ml			
633.0 -> 453.0			135287.37	20.9								
3:3FTCA	2.582	1782871	426883.59		13C5-PFPeA - ISTD	2.961	355859	704.8804	ng/ml			
241.0 -> 117.0			56132.92	48.5								
4:2FTS	3.631	3171849	394232.66		13C2-4:2FTS - ISTD	3.630	25806	210.5597	ng/ml			
327.0 -> 80.9			227258.18	39.3								
5:3FTCA	4.351	26033618	1196217.31		13C5-PFHxA - ISTD	3.861	207725	3145.2336	ng/ml			
341.0 -> 217.0			934625.81	89.0								
6:2FTS	4.975	2620605	366712.06		13C2-6:2FTS - ISTD	4.974	19381	199.6058	ng/ml			
427.0 -> 80.9			111779.42	32.5								
7:3FTCA	5.666	32693211	31110.35		13C5-PFHxA - ISTD	3.861	207725	3353.9128	ng/ml			
441.0 -> 317.0			15981.59	89.4								
8:2FTS	5.984	1688762	281357.01		13C2-8:2FTS - ISTD	5.983	16714	197.9176	ng/ml			
527.0 -> 81.0			103586.85	40.5								
9Cl-PF3ONS	6.696	14208007	308980.23		13C3-HFPODA - ISTD	4.136	198537	216.8505	ng/ml			
533.0 -> 353.0			109926.80	28.5								
ADONA	4.830	38852008	33008.06		13C3-HFPODA - ISTD	4.136	198537	263.3781	ng/ml			
377.0 -> 85.1			24818.74	33.0								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA	4.144	4444231	18430.29		13C3-HFPODA - ISTD	4.136	198537	243.2491	ng/ml			
285.0 -> 184.9			18789.89	54.5								
NEtFOSA	9.565	673072	263998.61		D5-NEtFOSA - ISTD	9.555	19657	65.9072	ng/ml			
526.0 -> 219.0			211191.46	95.3								
NEtFOSAA	6.463	1023176	11526.11		D5-NEtFOSAA - ISTD	6.455	66605	63.4597	ng/ml	✔	3	AMS 05/09/24
584.0 -> 526.0			11745.48	70.6								
NEtFOSE	9.428	5991668	1098712.25		D9-NEtFOSE - ISTD	9.403	227542	589.3881	ng/ml			
NFDHA	3.775	748206	255264.08		13C5-PFHxA - ISTD	3.861	207725	106.5476	ng/ml			
295.0 -> 85.0			22008.97	34.7								
NMeFOSA	9.211	631739	259532.36		D3-NMeFOSA - ISTD	9.210	20995	62.1208	ng/ml			
512.0 -> 219.0			175422.99	92.2								
NMeFOSAA	6.261	712708	7014.73		D3-NMeFOSAA - ISTD	6.260	133763	62.8316	ng/ml	✔	3	AMS 05/09/24
570.0 -> 418.9			5926.74	65.5								
NMeFOSE	9.082	5743801	1080882.15		D7-NMeFOSE - ISTD	9.057	227563	584.5683	ng/ml			
PFBA	1.762	13740648	118188.14		13C4-PFBA - ISTD	1.765	584850	254.5255	ng/ml			
PFBS	3.799	1522354	121227.47		13C3-PFBS - ISTD	3.798	55403	55.0488	ng/ml			
298.9 -> 98.8			111395.20	39.9								
PFDA	6.197	6008958	82358.06		13C6-PFDA - ISTD	6.197	116560	62.5574	ng/ml			
513.0 -> 219.0			264512.81	16.6								
PFDoA	7.079	5011661	99534.14		13C2-PFDoA - ISTD	7.078	99859	60.5484	ng/ml			
613.0 -> 319.0			25757.80	13.0								
PFDoS	8.078	398494	75019.94		13C8-PFOS - ISTD	6.354	33651	59.4212	ng/ml			
698.9 -> 99.0			83289.68	62.6								
PFDS	7.264	631505	87533.54		13C8-PFOS - ISTD	6.354	33651	57.5988	ng/ml			
599.0 -> 98.8			83893.91	59.9								
PFEESA	4.197	10356665	651813.07		13C5-PFHxA - ISTD	3.861	207725	99.0639	ng/ml			
315.0 -> 83.0			140567.06	6.7								
PFHpA	4.591	6127520	54817.44		13C4-PFHpA - ISTD	4.590	223532	65.7669	ng/ml			
362.9 -> 169.0			91032.67	17.2								
PFHpS	5.848	1061959	48312.13		13C8-PFOS - ISTD	6.354	33651	59.8681	ng/ml			
449.0 -> 98.8			76730.86	51.7								

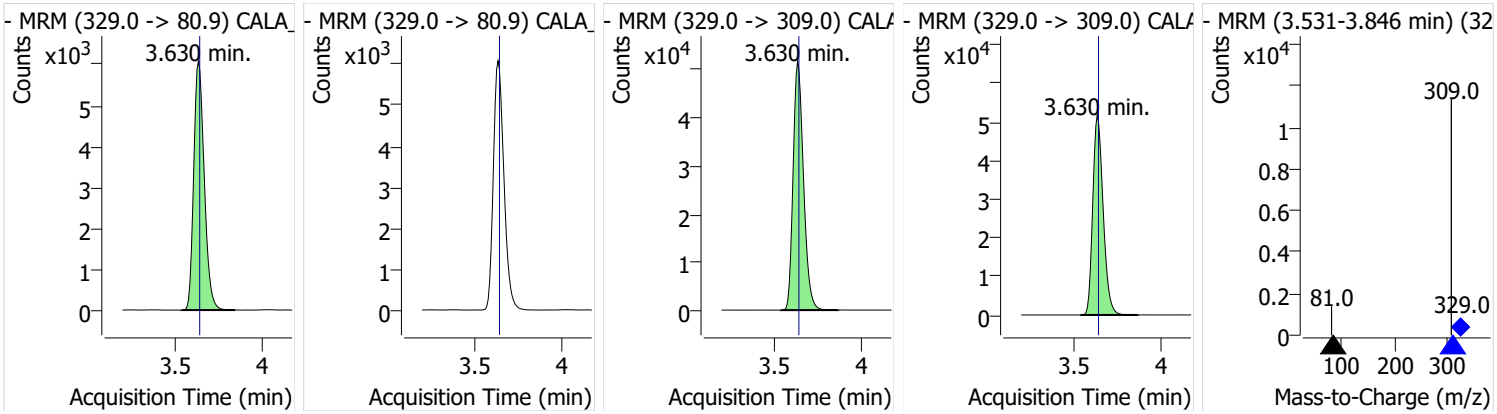
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFHxA	3.863	5427767	21791.81		13C5-PFHxA - ISTD	3.861	207725	64.2687	ng/ml			
313.0 -> 118.9			26332.67	3.5								
PFHxS	5.293	1250019	49436.65		13C3-PFHxS - ISTD	5.292	49203	56.2751	ng/ml	✔	3	AMS 05/09/24
398.9 -> 99.0			31697.55	45.8								
PFMBA	3.280	6213364	533788.58		13C5-PFPeA - ISTD	2.961	355859	126.8156	ng/ml			
PFMPA	2.267	1004642	14042.29		13C5-PFPeA - ISTD	2.961	355859	128.9893	ng/ml			
PFNA	5.714	6377628	95430.62		13C9-PFNA - ISTD	5.721	122368	64.8177	ng/ml			
463.0 -> 219.0			126470.70	20.5								
PFNS	6.826	806306	29177.56		13C8-PFOS - ISTD	6.354	33651	58.8563	ng/ml			
549.0 -> 98.8			42005.93	54.6								
PFOA	5.198	6998938	14879.86		13C8-PFOA - ISTD	5.197	215291	64.7520	ng/ml			
413.0 -> 169.0			60905.70	23.3								
PFOS	6.355	1011515	37570.12		13C8-PFOS - ISTD	6.354	33651	57.8332	ng/ml	✔	3	AMS 05/09/24
499.0 -> 99.0			34741.05	48.6								
PFOSA	7.753	1806506	470688.04		13C8-PFOSA - ISTD	7.760	64202	63.7278	ng/ml			
497.9 -> 478.0			41835.97	3.1								
PFPeA	2.962	9455214	224775.58		13C5-PFPeA - ISTD	2.961	355859	131.5581	ng/ml			
263.0 -> 69.0			7339.66	0.3								
PFPeS	4.625	1369106	36813.11		13C3-PFHxS - ISTD	5.292	49203	53.6973	ng/ml			
349.0 -> 98.9			40366.47	47.1								
PFTeDA	7.902	4324902	17176.39		13C2-PFTeDA - ISTD	7.902	90460	59.4201	ng/ml			
713.0 -> 168.9			19529.70	8.2								
PFTrDA	7.499	4364883	22480.71		13C2-PFDoA - ISTD	7.078	99859	61.9013	ng/ml			
663.0 -> 168.9			11349.97	12.8								
PFUnA	6.645	4452024	89610.69		13C7-PFUnA - ISTD	6.644	86826	63.7994	ng/ml			
563.0 -> 269.1			98202.39	17.6								
TDCA	6.225	233492	8600.07					-	ng/ml			
499.0 -> 99.0			3129.93	26.8								
13C2-8:2FTS	5.983	16714	6068.41		18O2-PFHxS	5.291	47893	5.3094	ng/ml			
529.0 -> 509.0			117326.57	***842.4**								
13C2-4:2FTS	3.630	25806	3256.32		18O2-PFHxS	5.291	47893	4.5026	ng/ml			

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
329.0 -> 309.0			80094.97	*844.6								
13C2-6:2FTS	4.974	19381	8080.10		18O2-PFHxS	5.291	47893	5.0043	ng/ml			
429.0 -> 409.0			56382.98	*1039.6								
13C5-PFHxA	3.861	207725	34285.73		13C2-PFHxA	3.861	197148	2.5569	ng/ml			
318.0 -> 120.0			783.51	1.9								
13C6-PFDA	6.197	116560	18752.37		13C2-PFDA	6.197	118678	1.2448	ng/ml			
13C7-PFUnA	6.644	86826	5555.31		13C2-PFDA	6.197	118678	1.1453	ng/ml			
13C8-PFOA	5.197	215291	46546.14		13C4-PFOA	5.198	30637	2.5632	ng/ml			
13C8-PFOS	6.354	33651	10899.27		13C4-PFOS	6.355	36339	2.5759	ng/ml			
507.0 -> 99.0			9575.28	51.7								
13C8-PFOSA	7.760	64202	482076.66		13C4-PFOS	6.355	36339	2.7942	ng/ml			
13C9-PFNA	5.721	122368	25041.73		13C5-PFNA	5.713	139220	1.2889	ng/ml			
13C5-PFPeA	2.961	355859	11537.36		13C2-PFHxA	3.861	197148	4.8876	ng/ml			
13C2-PFDoA	7.078	99859	9160.05		13C2-PFDA	6.197	118678	1.2763	ng/ml			
13C4-PFHpA	4.590	223532	56467.42		13C2-PFHxA	3.861	197148	2.4598	ng/ml			
13C4-PFBA	1.765	584850	114963.46		13C3-PFBA	1.760	261086	10.3175	ng/ml			
13C3-PFHxS	5.292	49203	22905.04		18O2-PFHxS	5.291	47893	2.5157	ng/ml			
402.0 -> 99.0			6628.23	51.4								
13C3-PFBS	3.798	55403	14626.54		18O2-PFHxS	5.291	47893	2.1404	ng/ml			
301.9 -> 98.9			5718.38	34.3								
13C3-HFPODA	4.136	198537	16113.79		13C2-PFHxA	3.861	197148	8.7369	ng/ml			
287.0 -> 185.0			8896.09	43.1								
13C2-PFTeDA	7.902	90460	7470.20		13C2-PFDA	6.197	118678	1.3427	ng/ml			
D9-NEtFOSE	9.403	227542	52123.09		13C4-PFOS	6.355	36339	23.8141	ng/ml			
D3-NMeFOSA	9.210	20995	15018.88		13C4-PFOS	6.355	36339	2.8488	ng/ml			
D3-NMeFOSAA	6.260	133763	49339.84		13C4-PFOS	6.355	36339	5.6822	ng/ml			
D5-NEtFOSA	9.555	19657	13282.61		13C4-PFOS	6.355	36339	2.5571	ng/ml			
D5-NEtFOSAA	6.455	66605	9198.33		13C4-PFOS	6.355	36339	5.5914	ng/ml			
D7-NMeFOSE	9.057	227563	73551.58		13C4-PFOS	6.355	36339	25.4843	ng/ml			

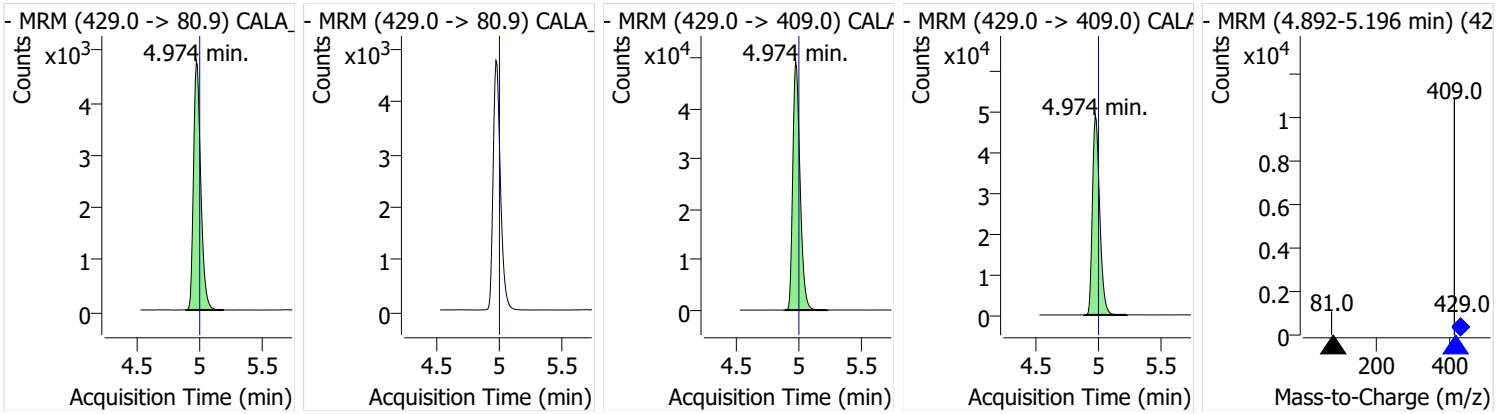
11Cl-PF3OUdS



13C2-4:2FTS - ISTD



13C2-6:2FTS - ISTD



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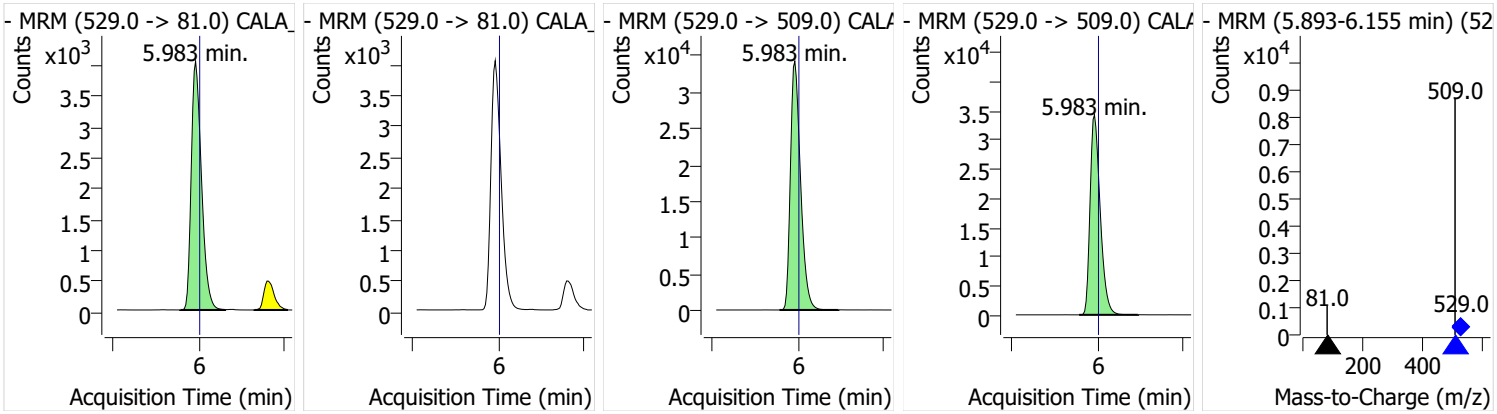
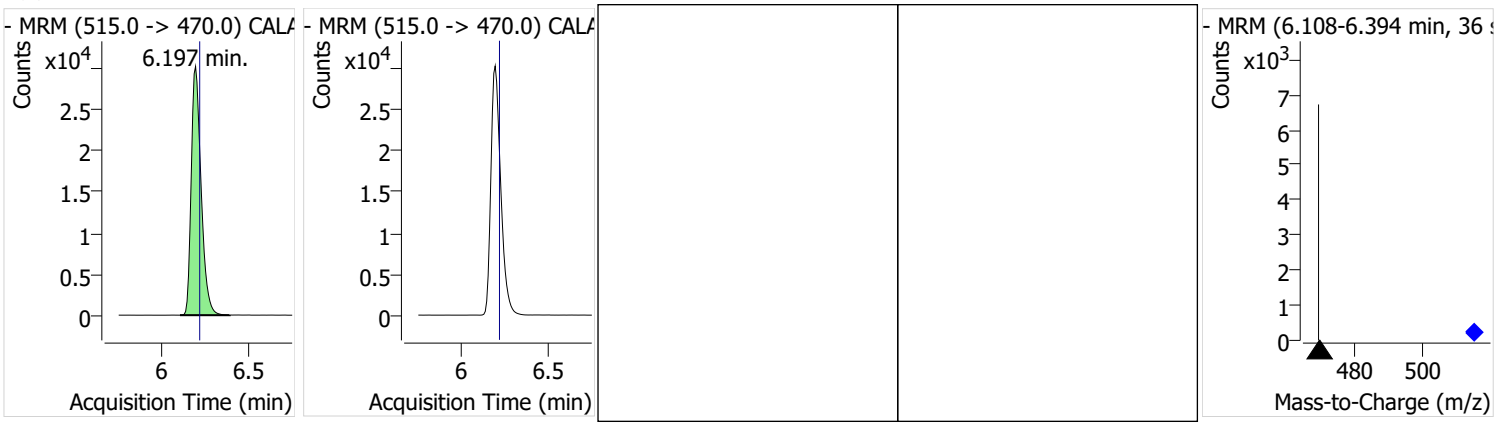
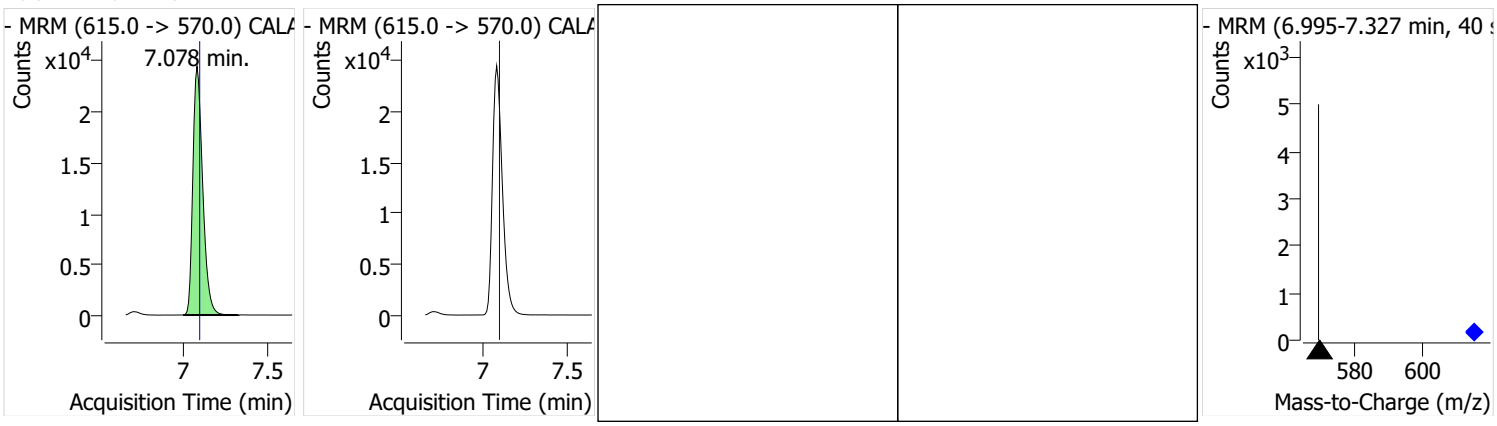


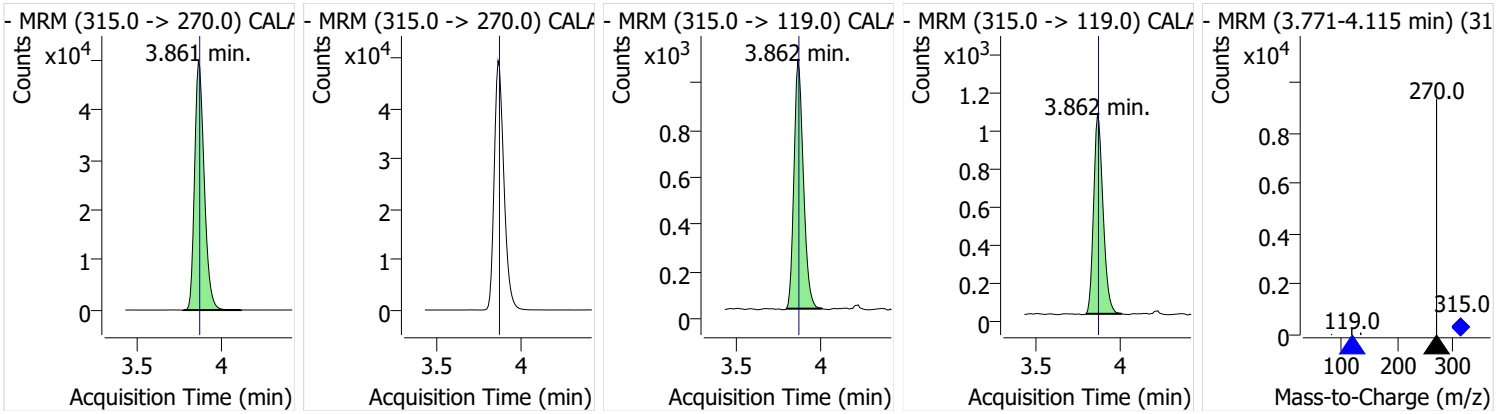
13C2-PFDA



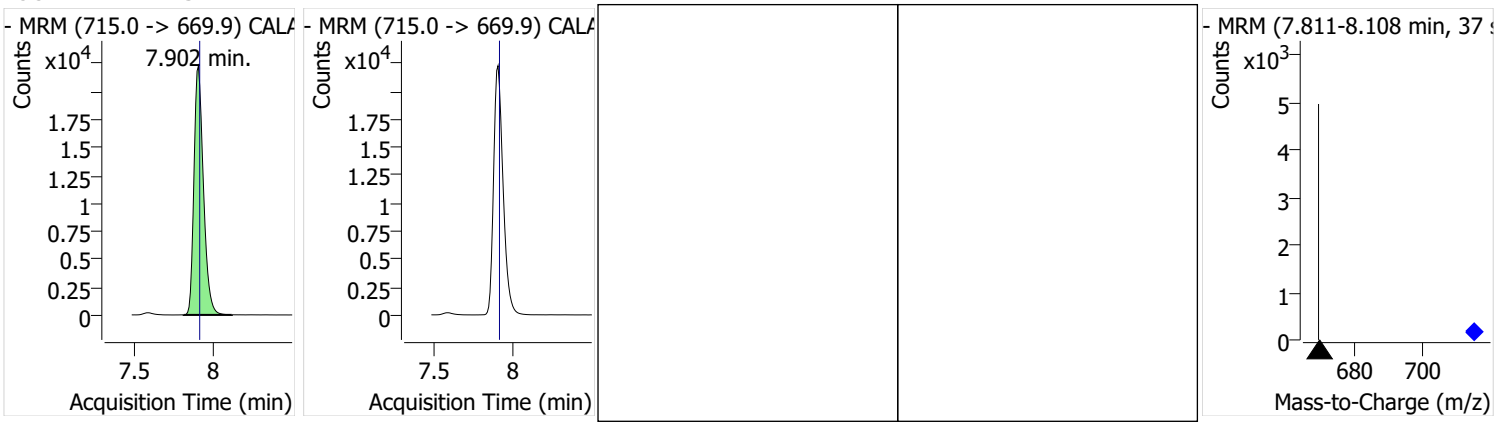
13C2-PFDoA - ISTD



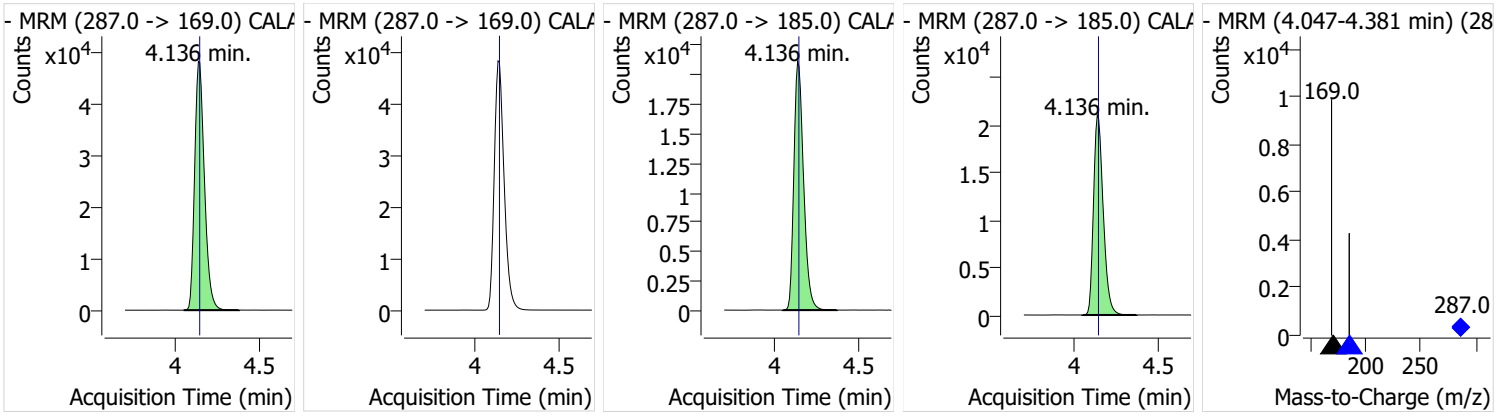
13C2-PFHxA



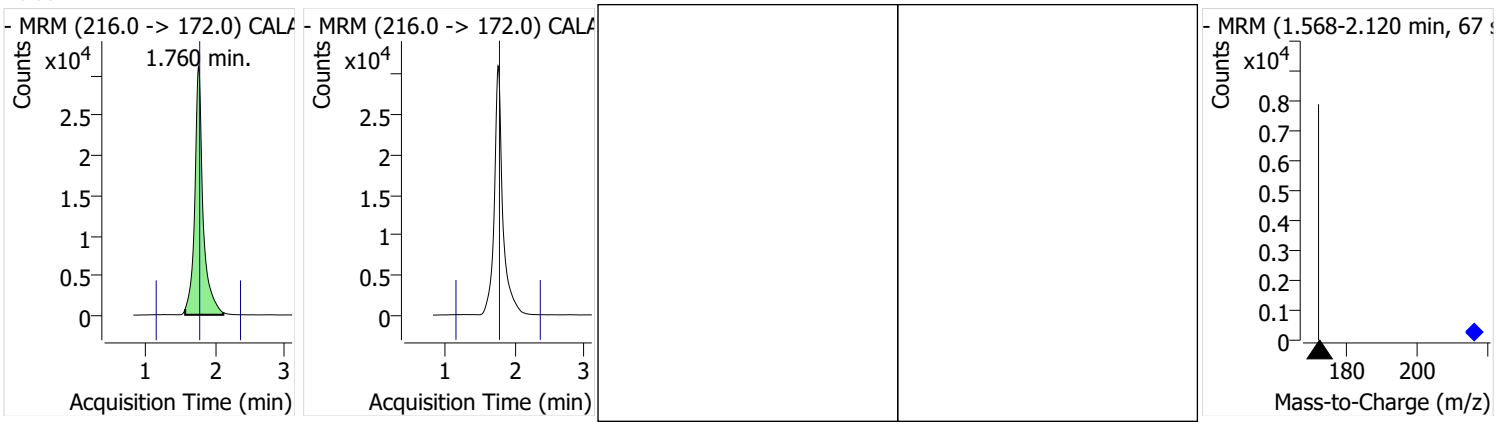
13C2-PFTeDA - ISTD



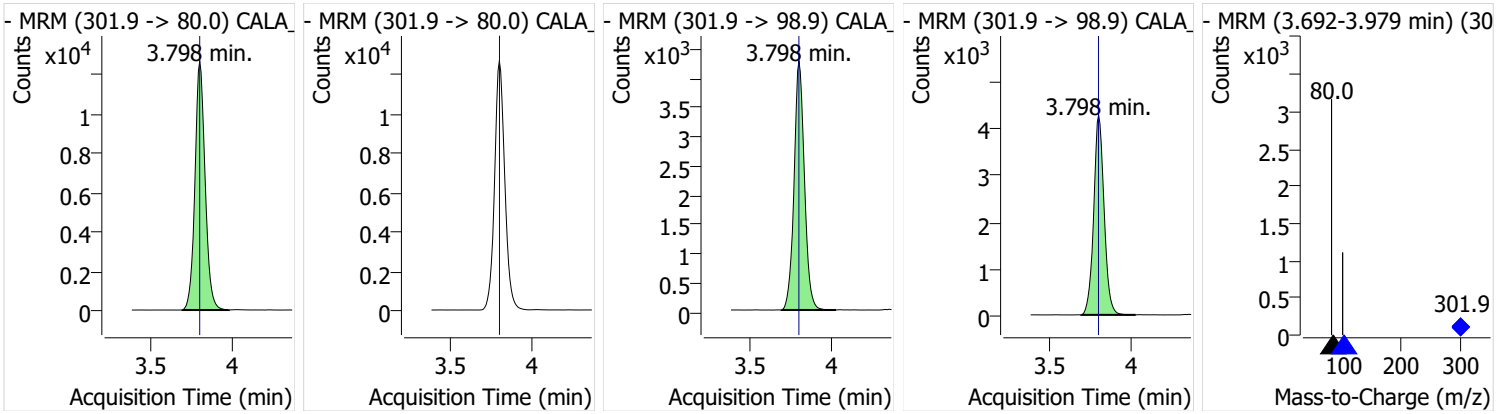
13C3-HFPODA - ISTD



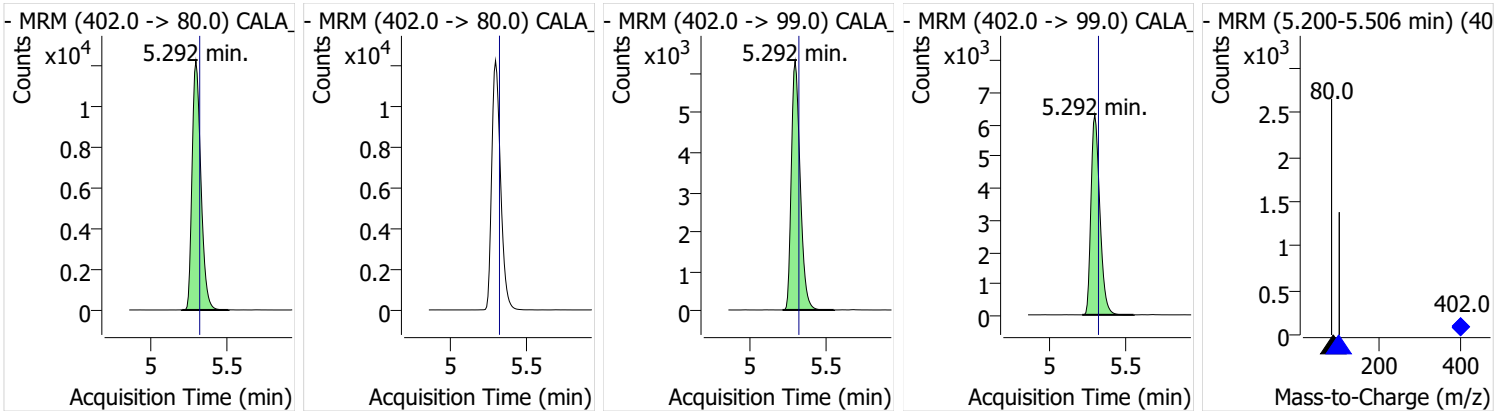
13C3-PFBA



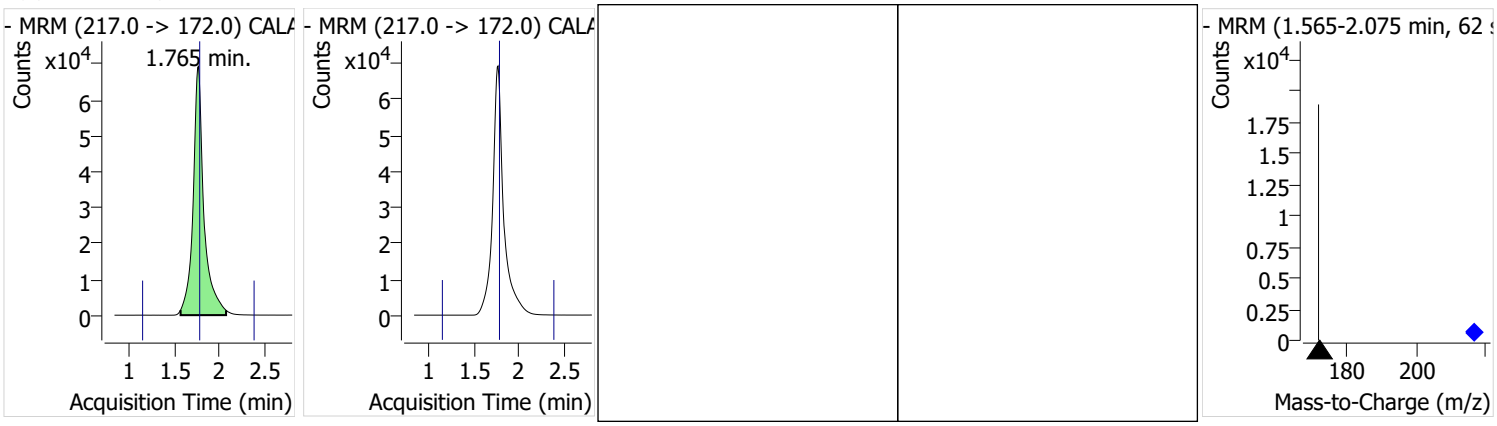
13C3-PFBS - ISTD



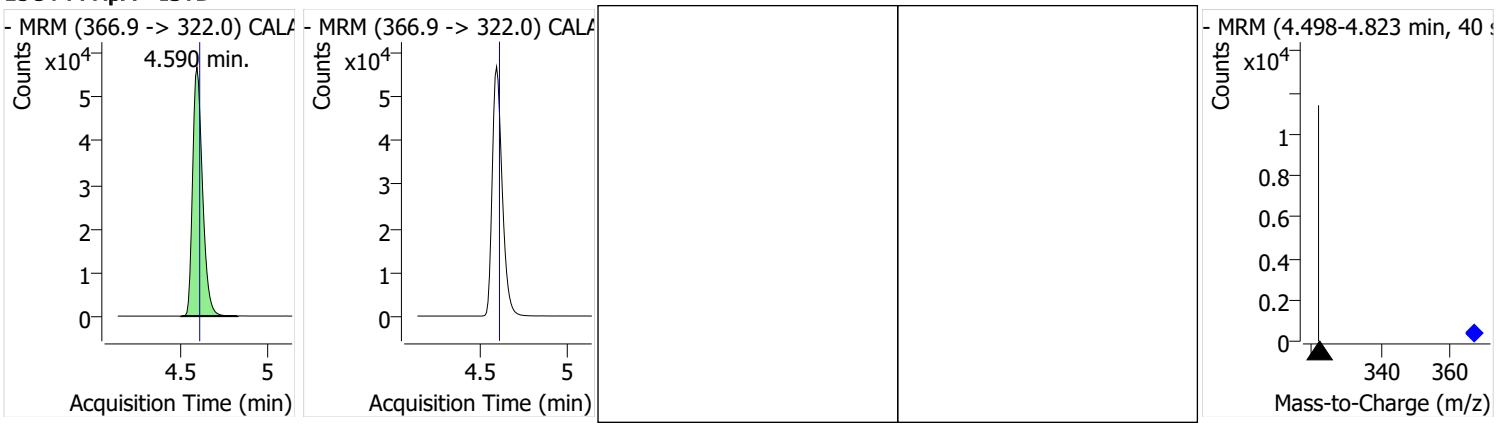
13C3-PFHxS - ISTD



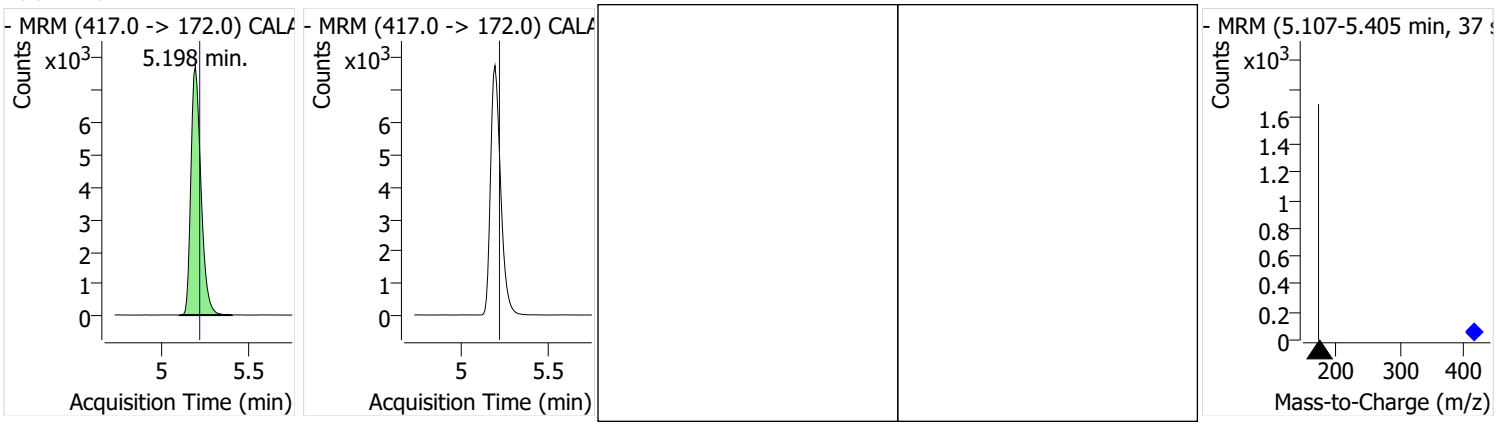
13C4-PFBA - ISTD



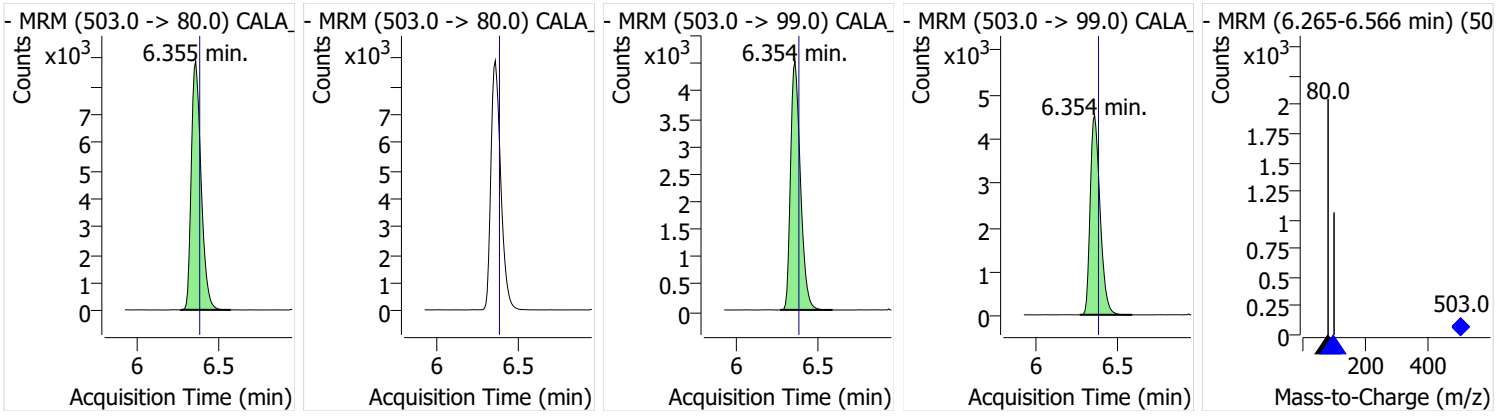
13C4-PFHpA - ISTD



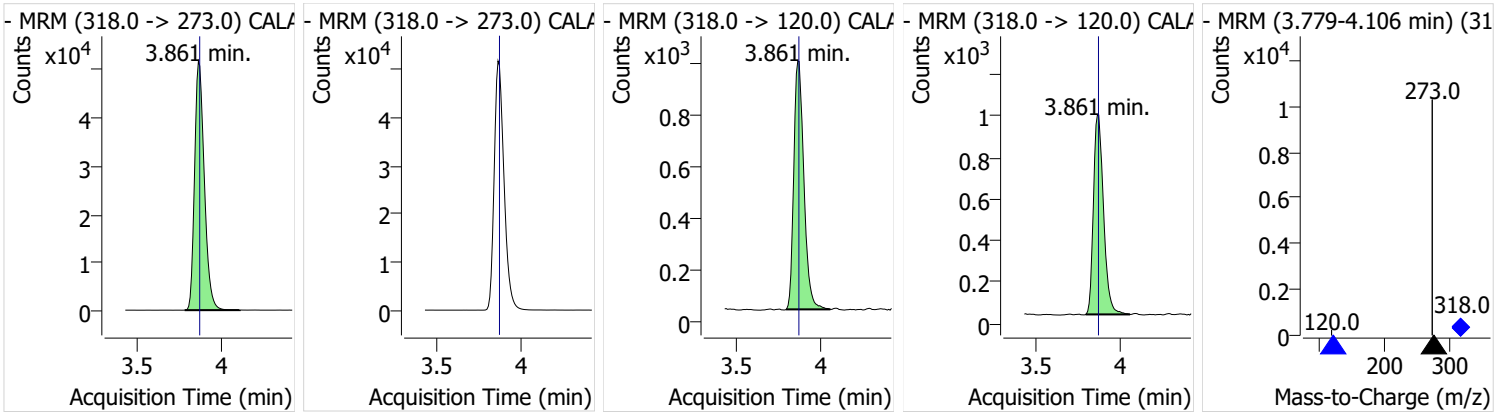
13C4-PFOA



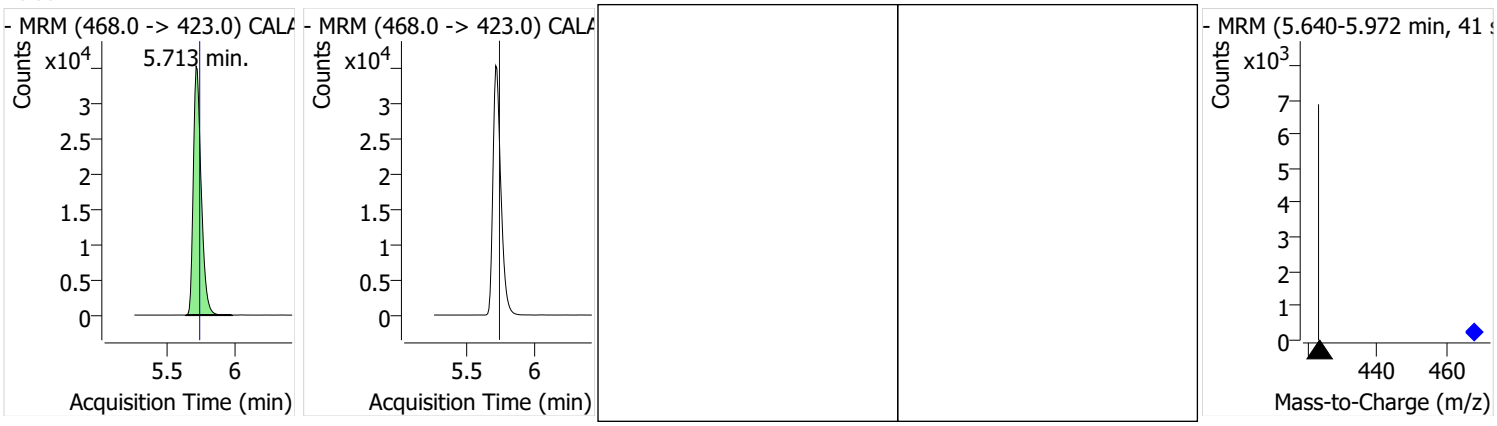
13C4-PFOS



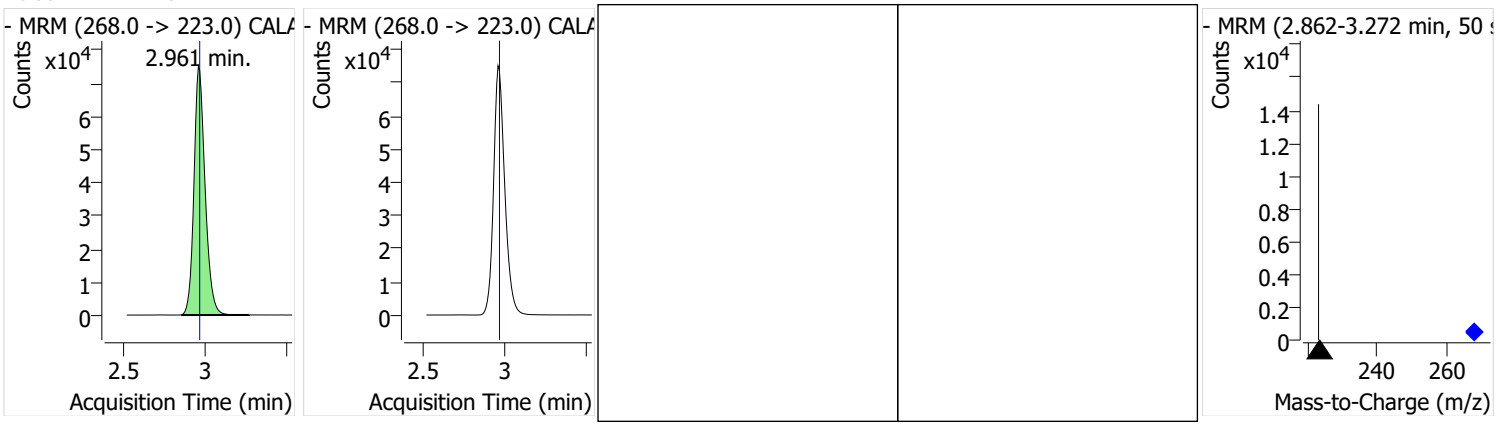
13C5-PFHxA - ISTD



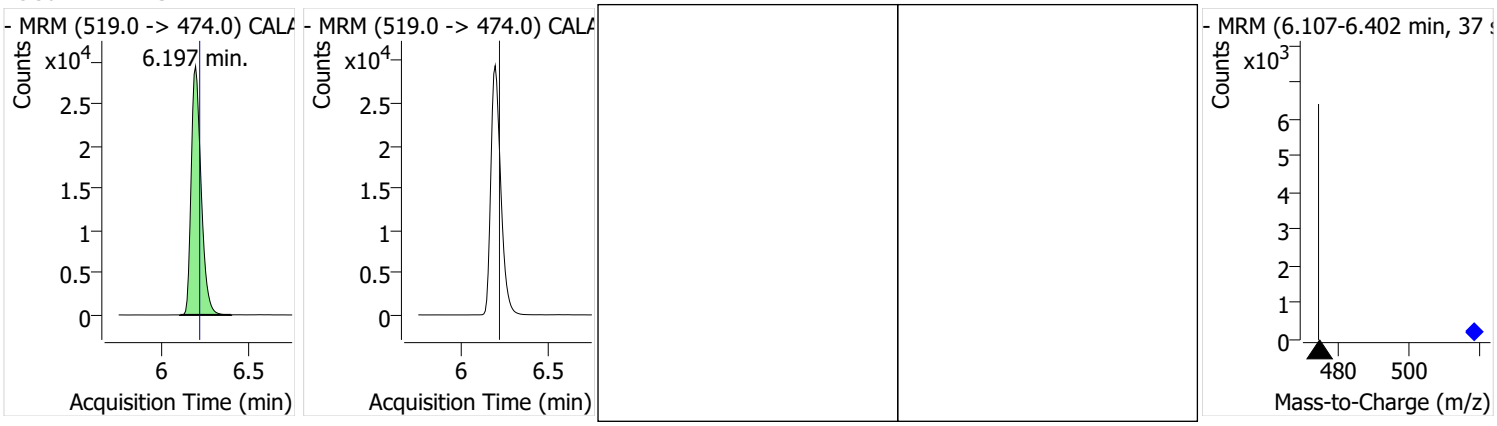
13C5-PFNA



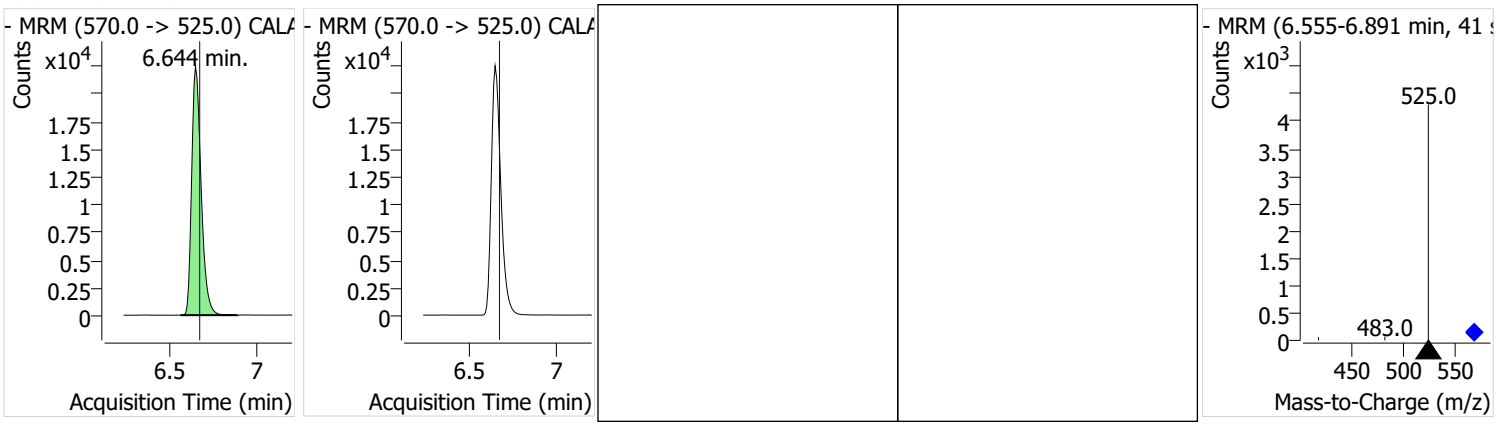
13C5-PFPeA - ISTD



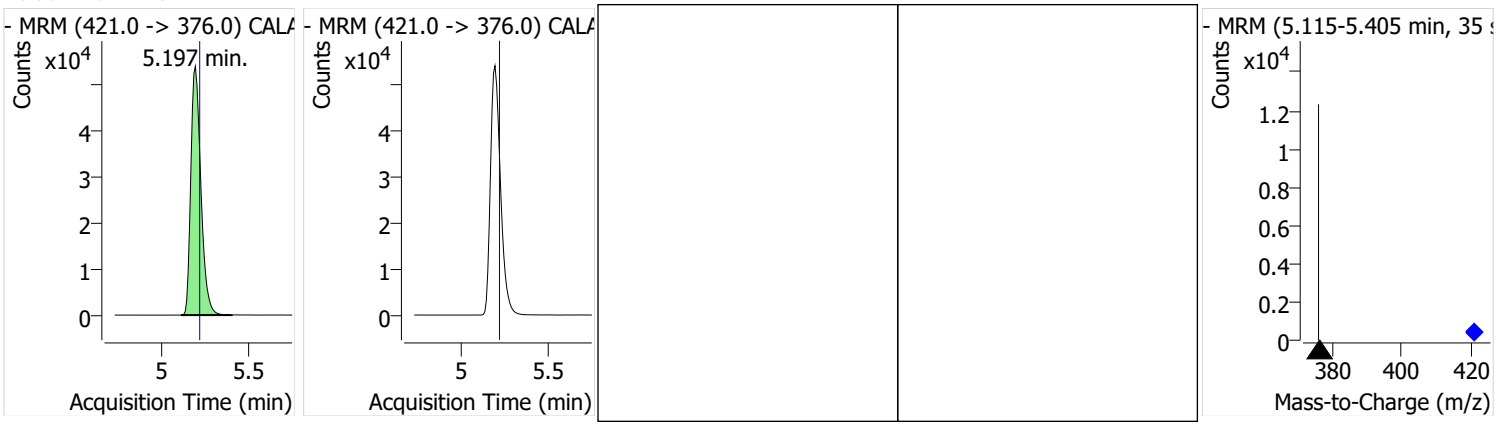
13C6-PFDA - ISTD



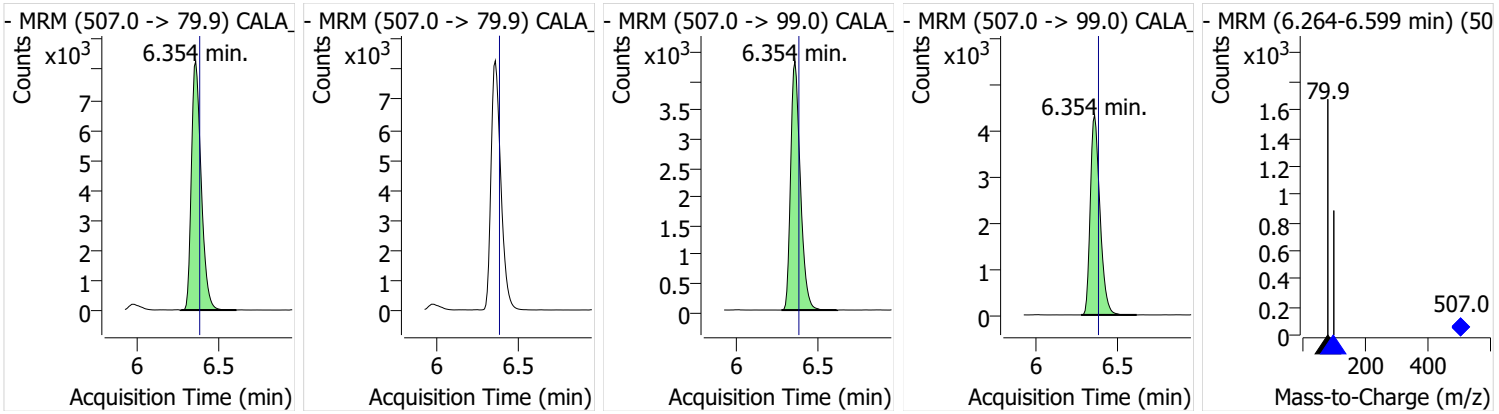
13C7-PFUnA - ISTD



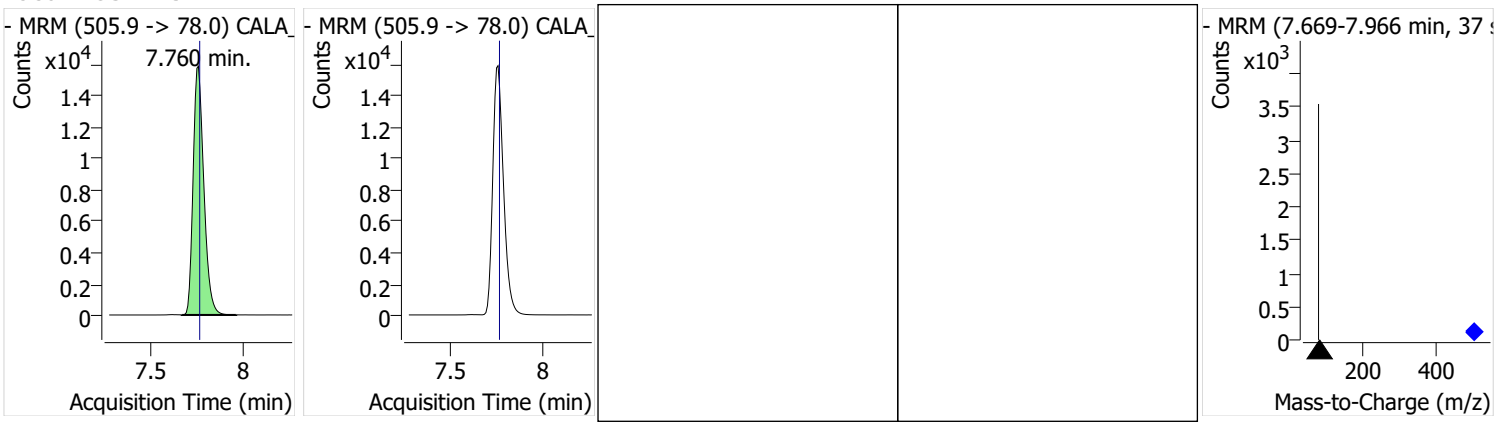
13C8-PFOA - ISTD



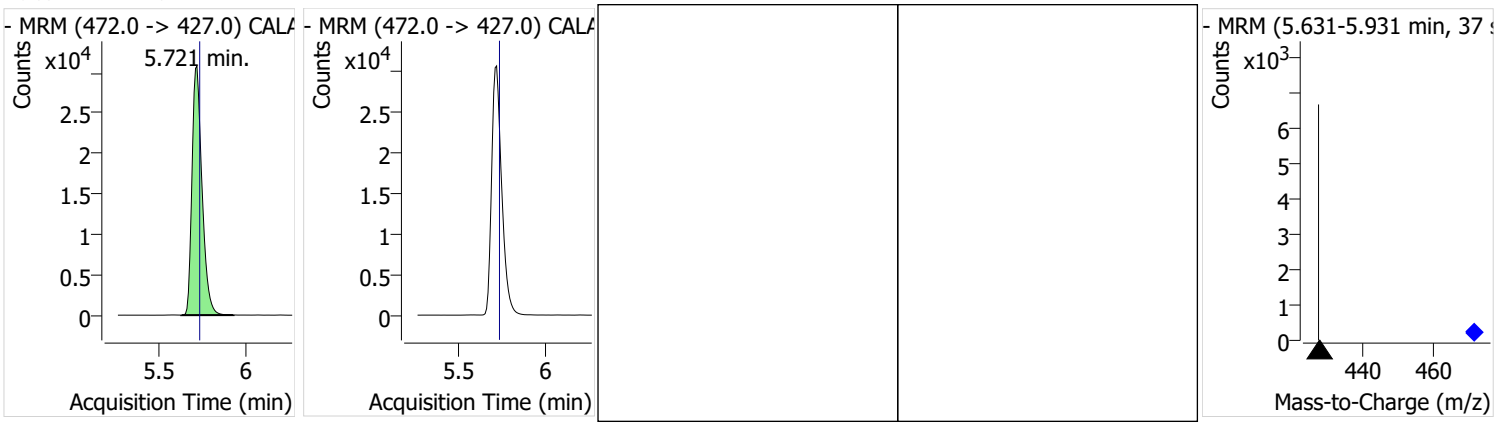
13C8-PFOS - ISTD



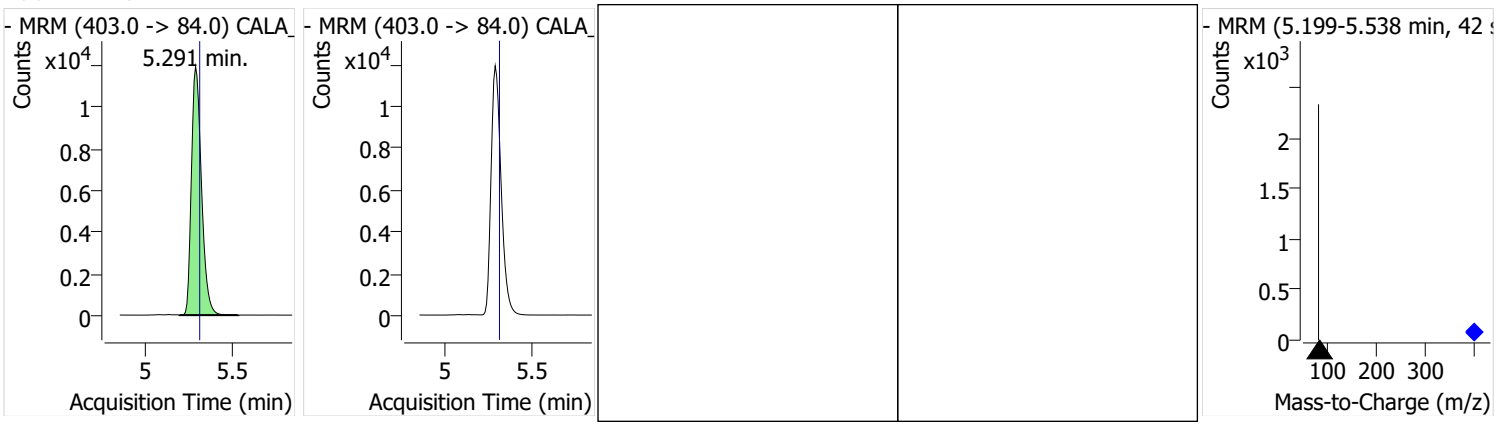
13C8-PFOSA - ISTD



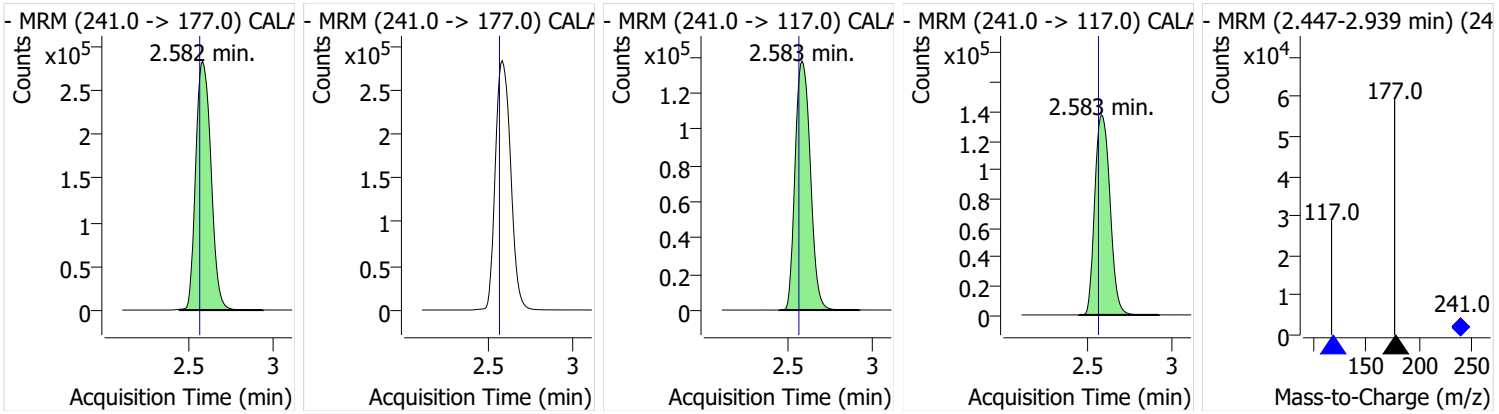
13C9-PFNA - ISTD



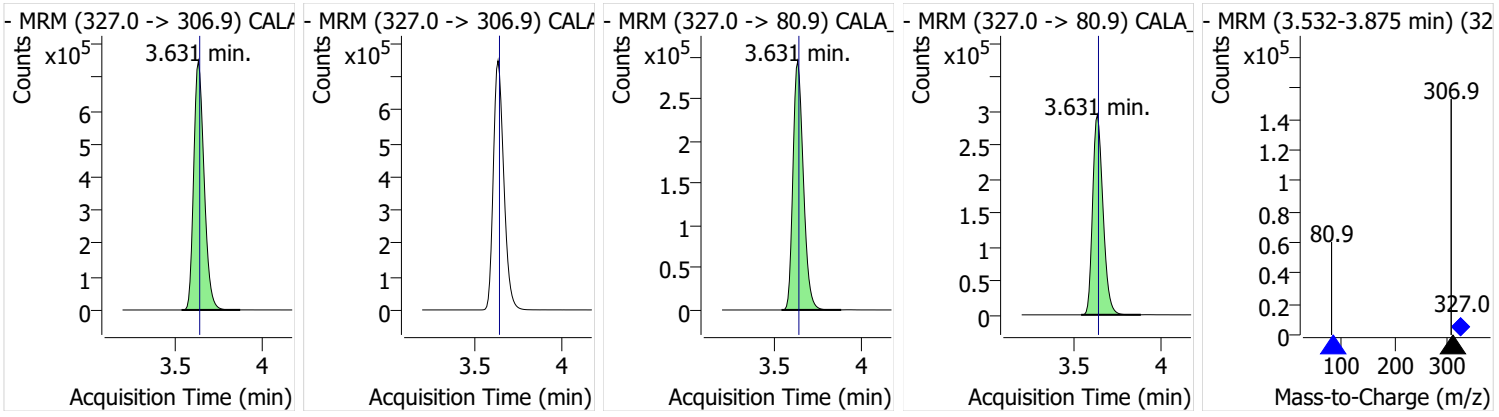
18O2-PFHxS



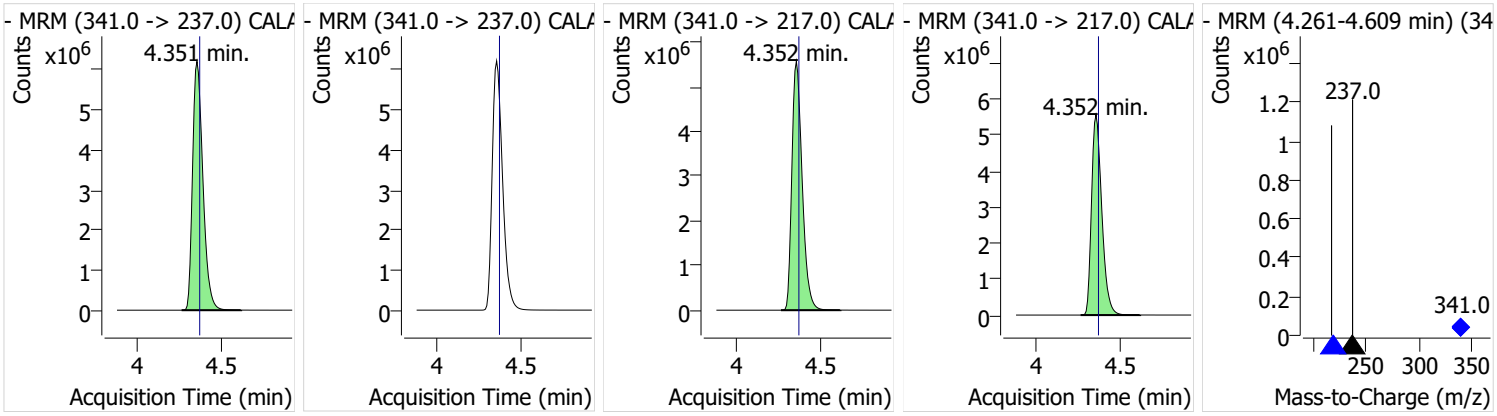
3:3FTCA



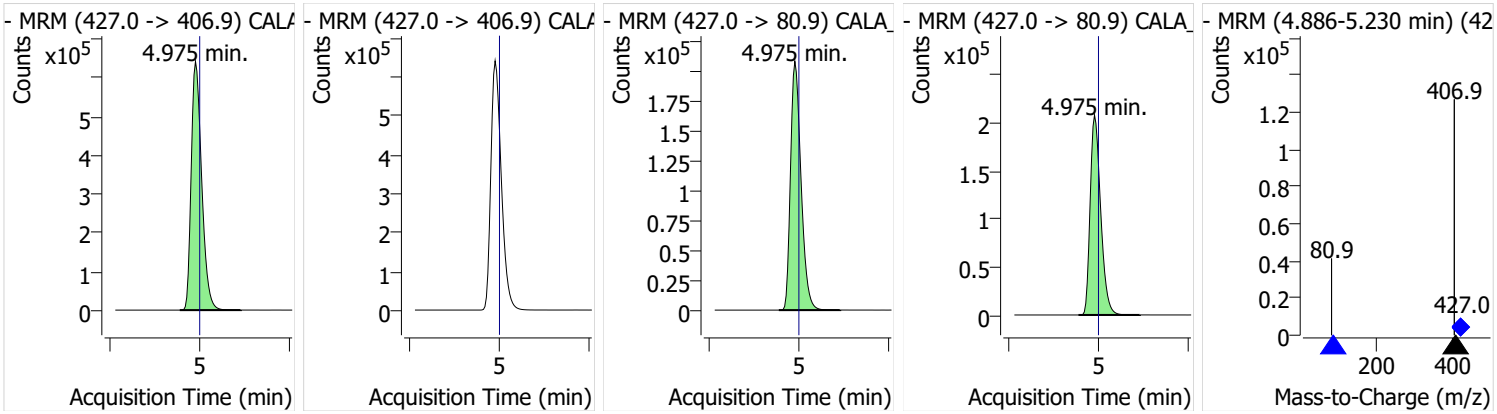
4:2FTS



5:3FTCA



6:2FTS



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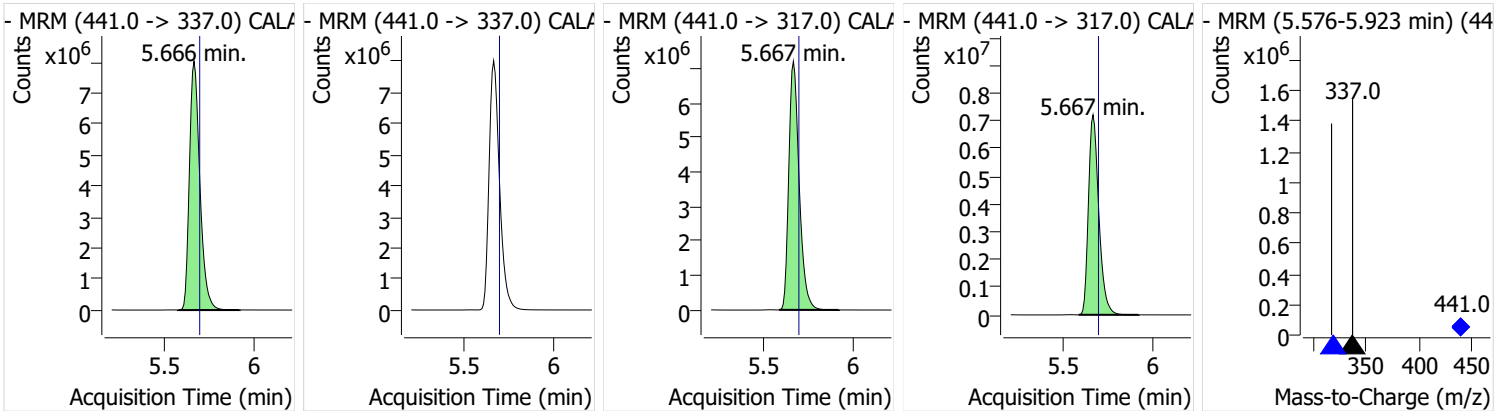
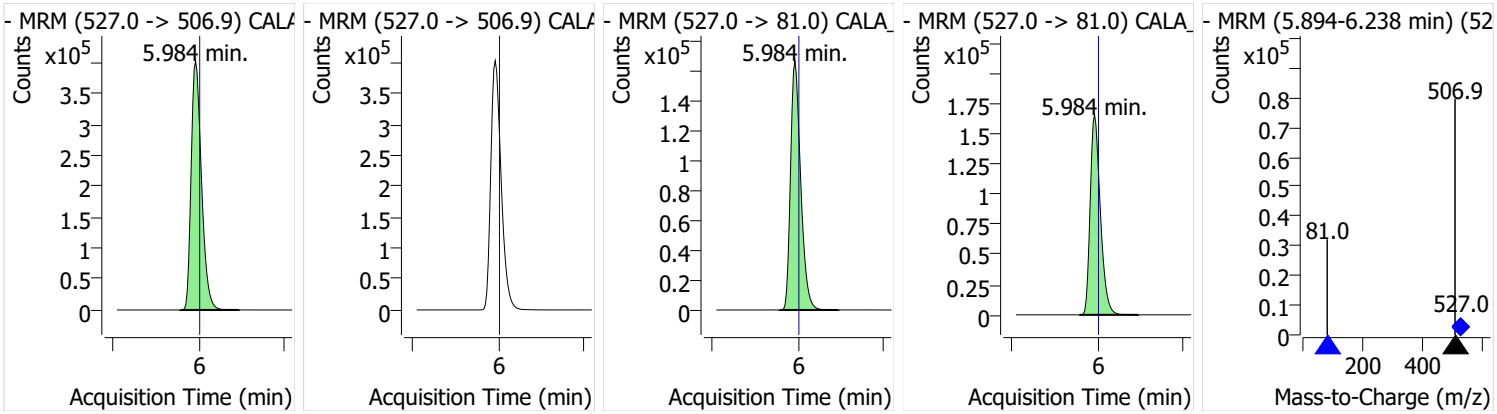
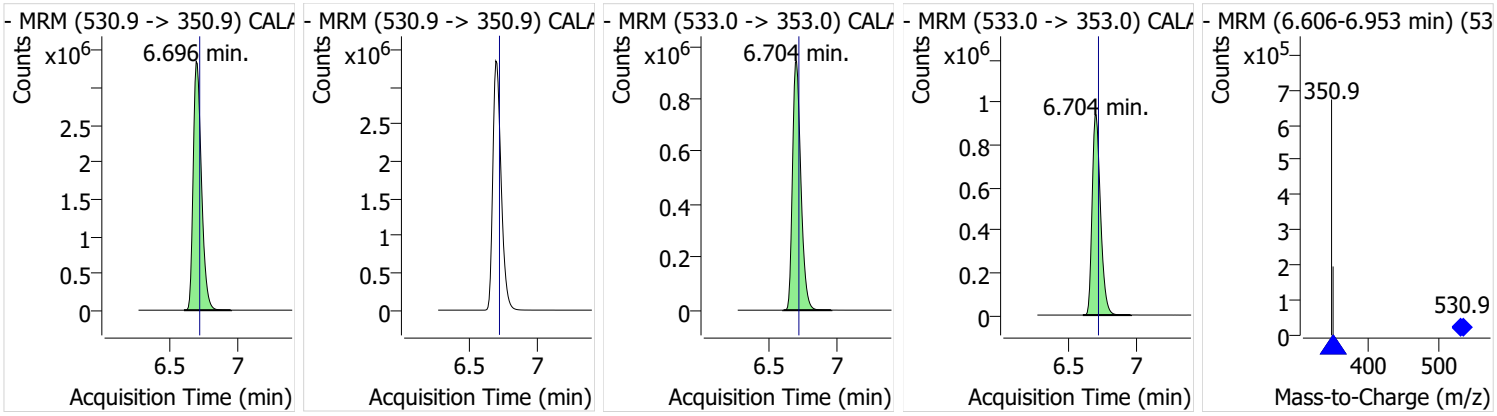


8:2FTS



9Cl-PF3ONS



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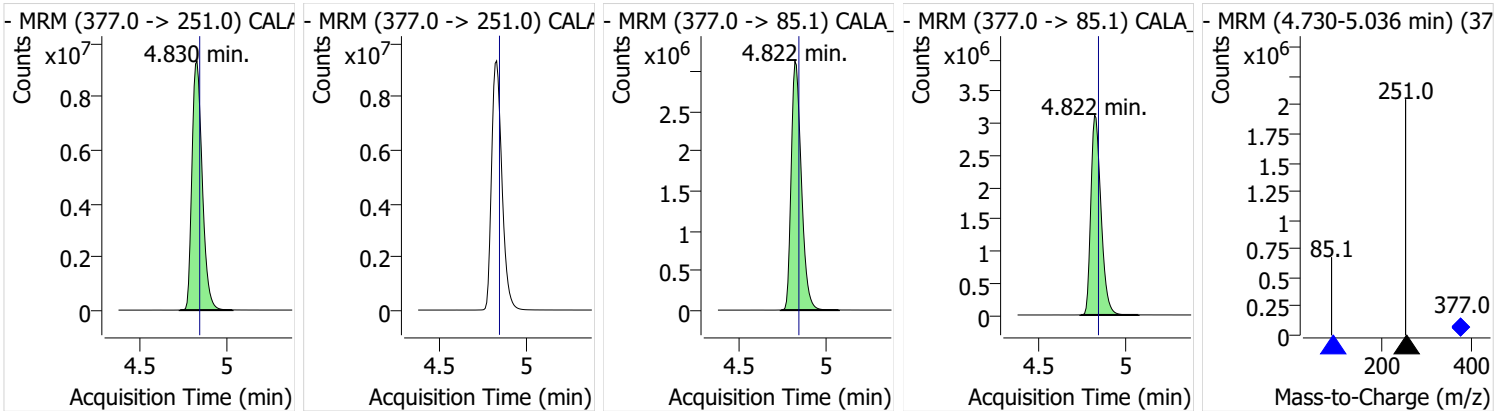
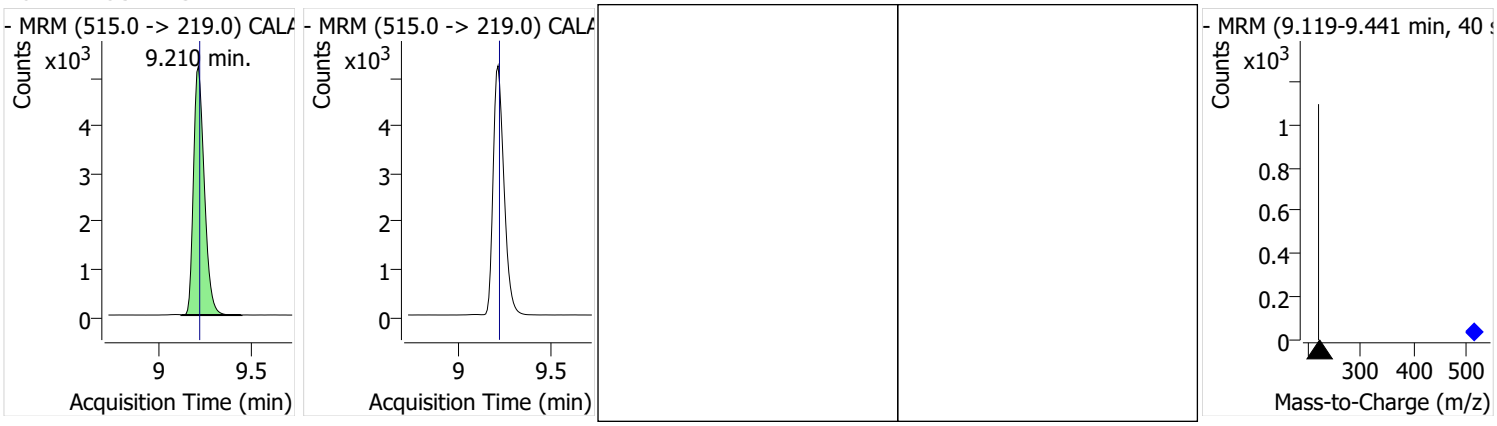
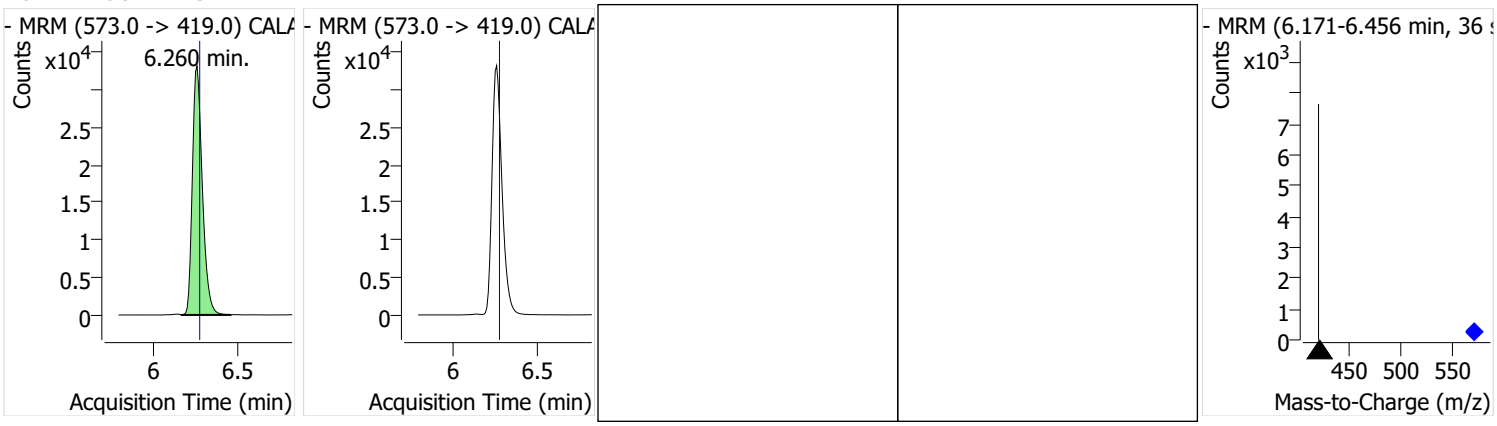


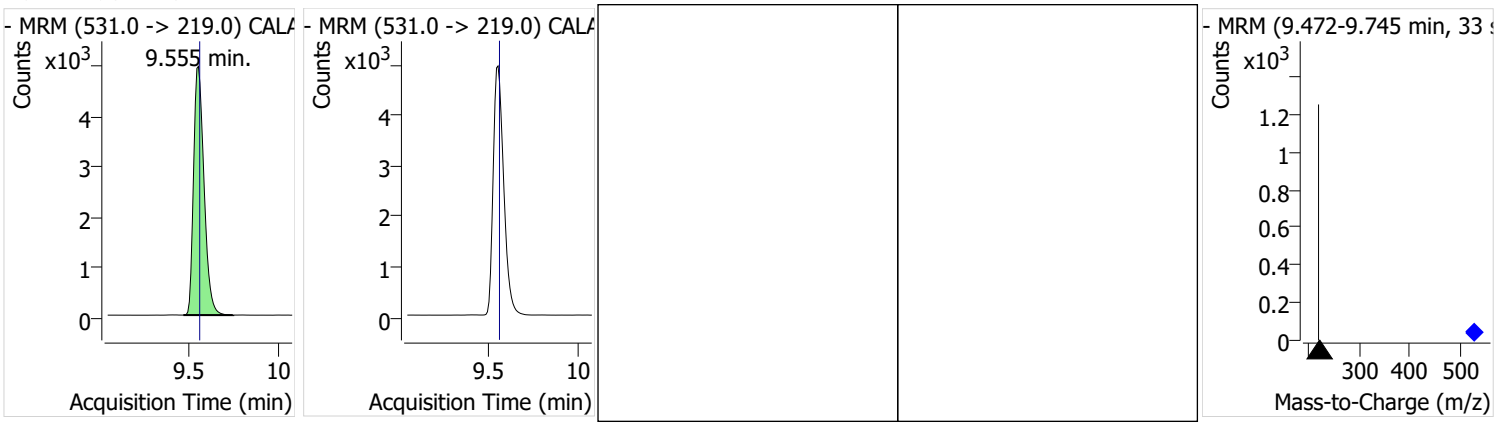
D3-NMeFOSA - ISTD



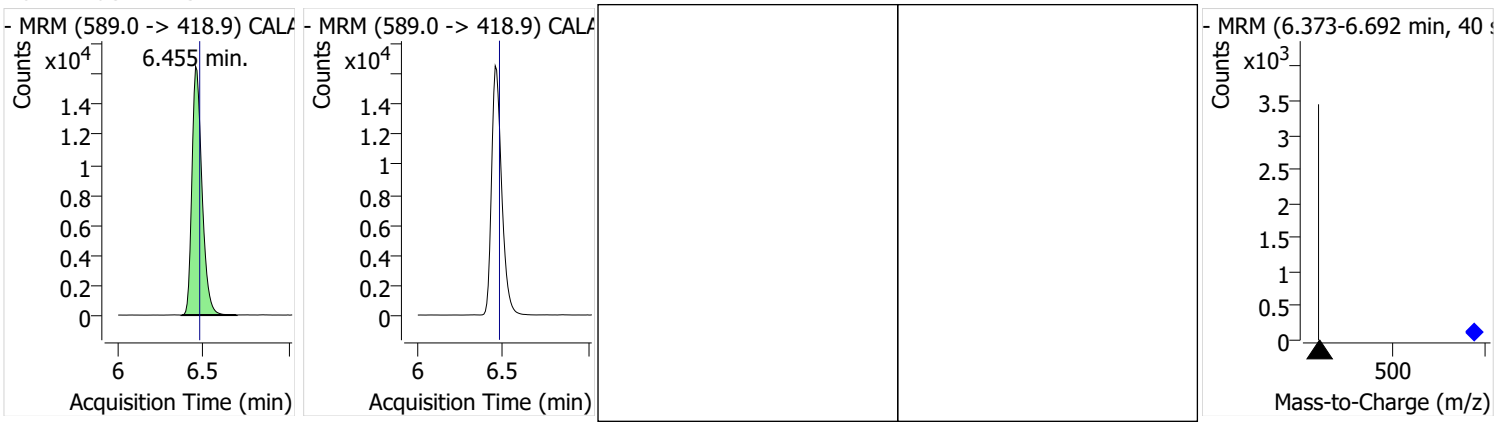
D3-NMeFOSAA - ISTD



D5-NEtFOSA - ISTD

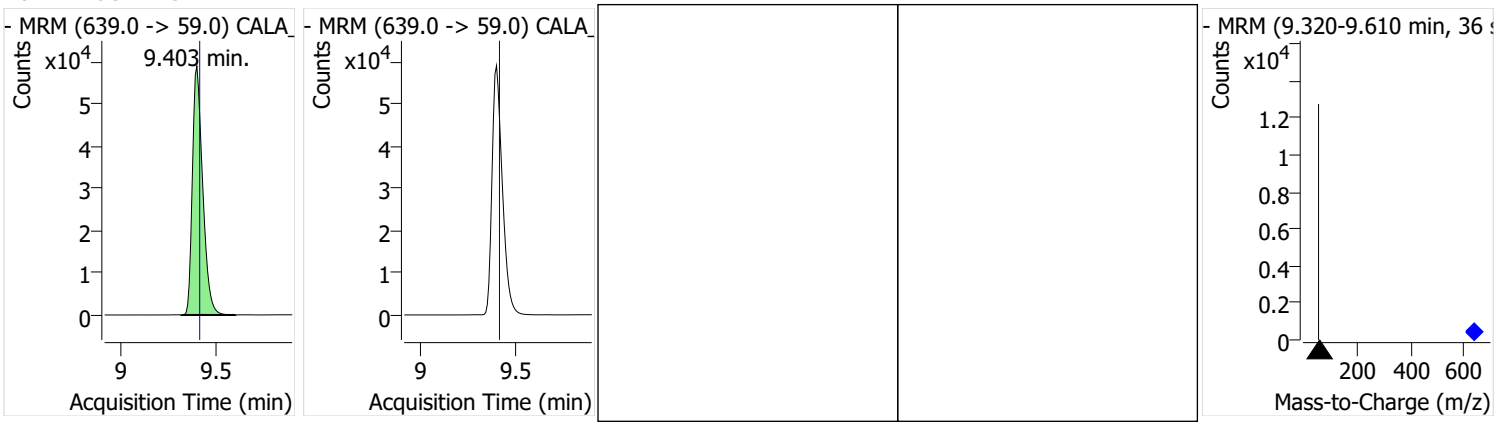


D5-NEtFOSAA - ISTD

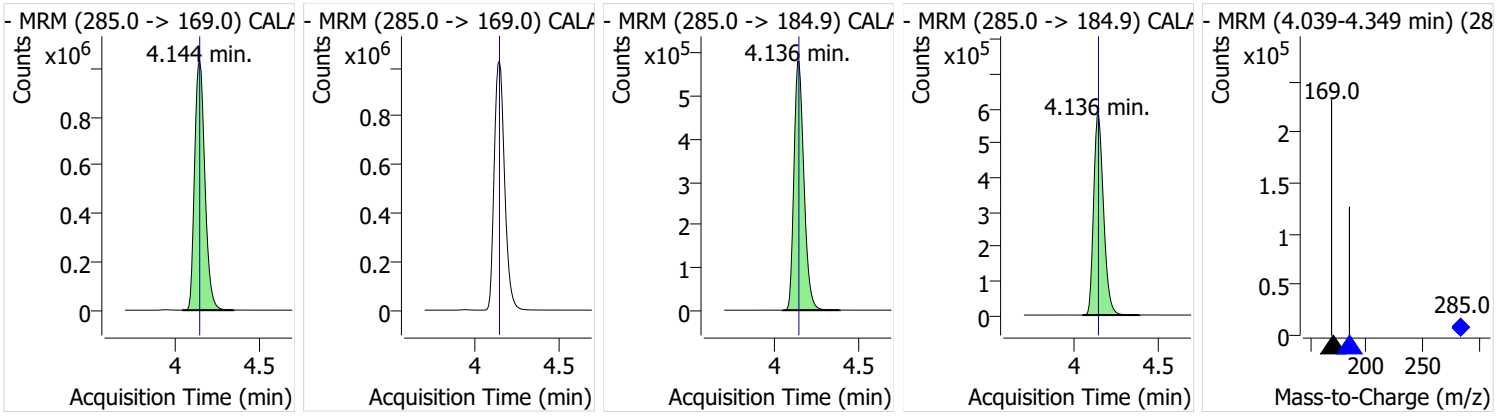


D7-NMeFOSE - ISTD

D9-NEtFOSE - ISTD



HFPO-DA



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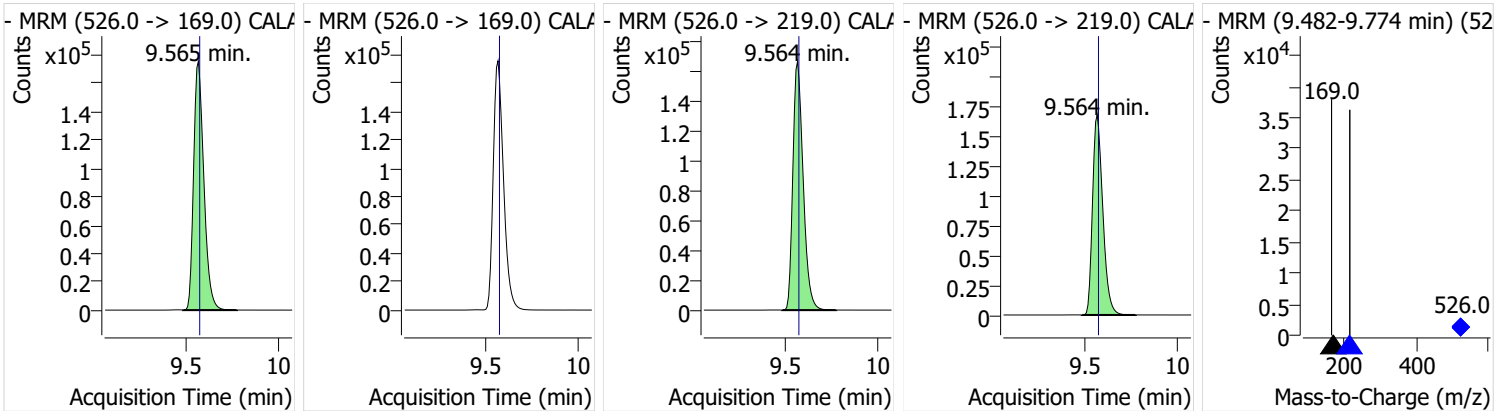

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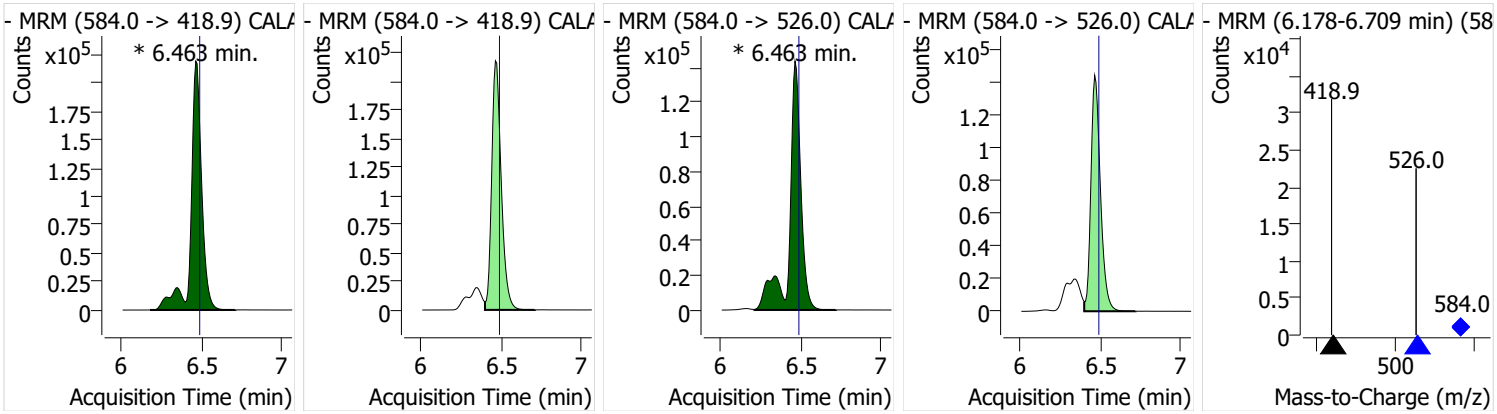

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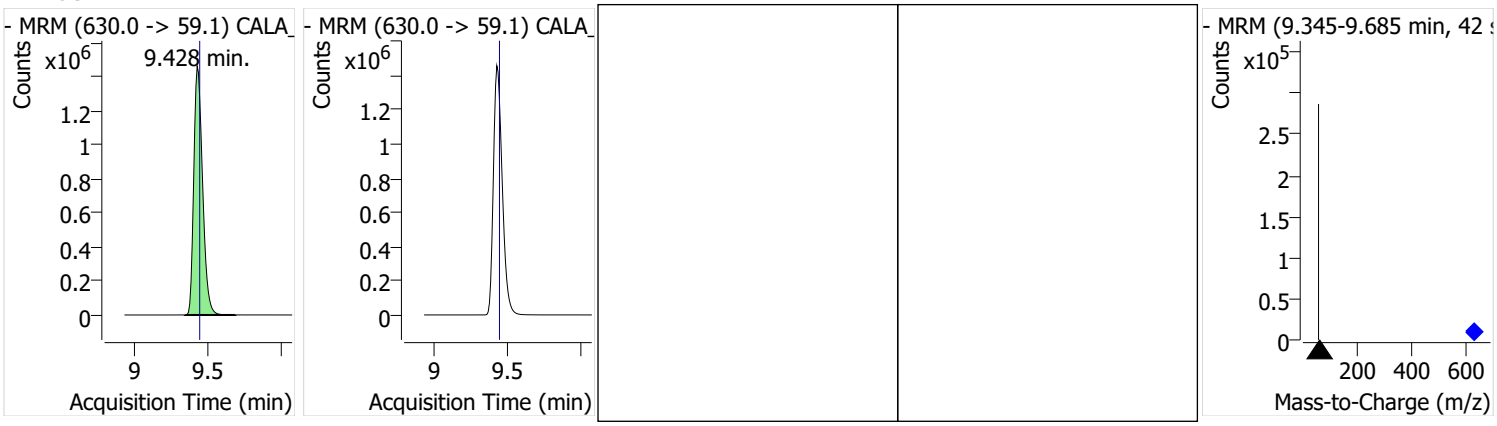

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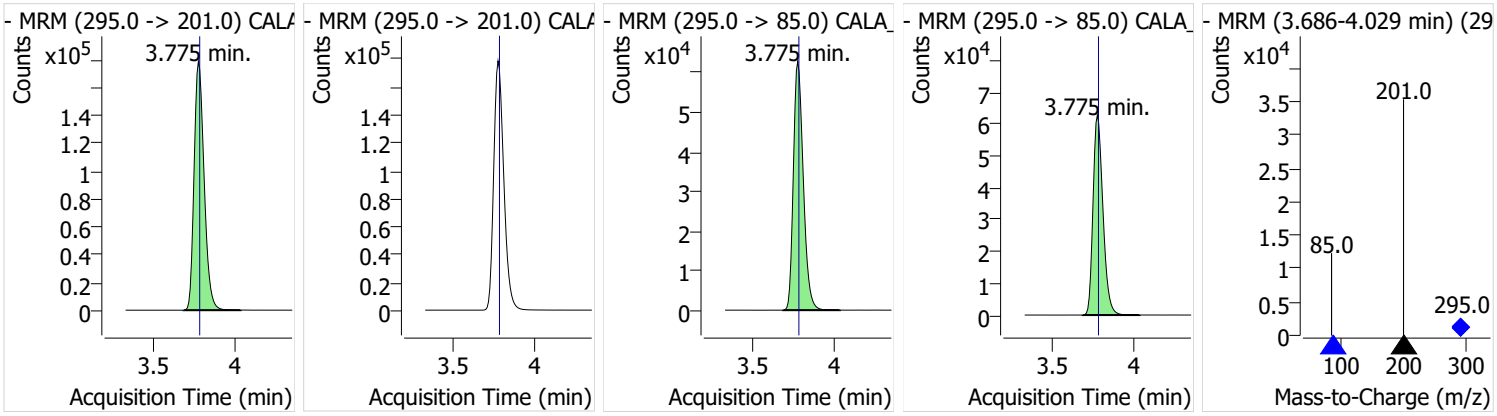

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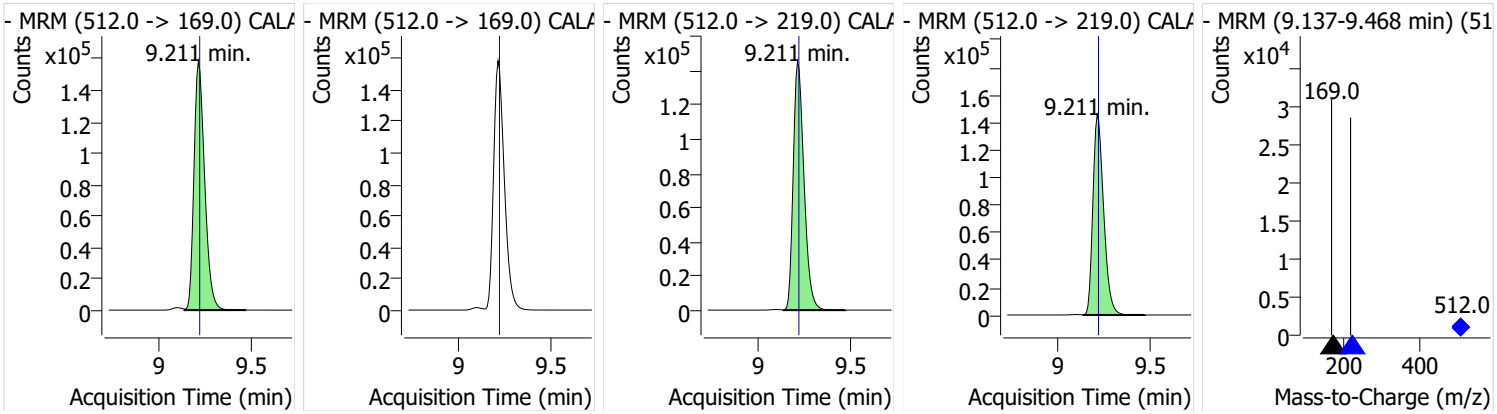

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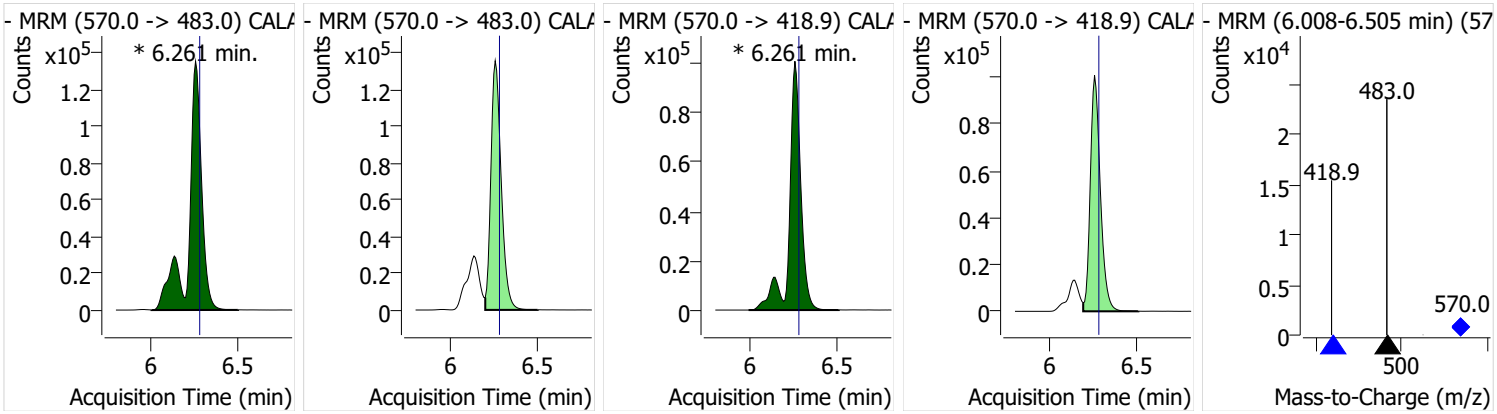

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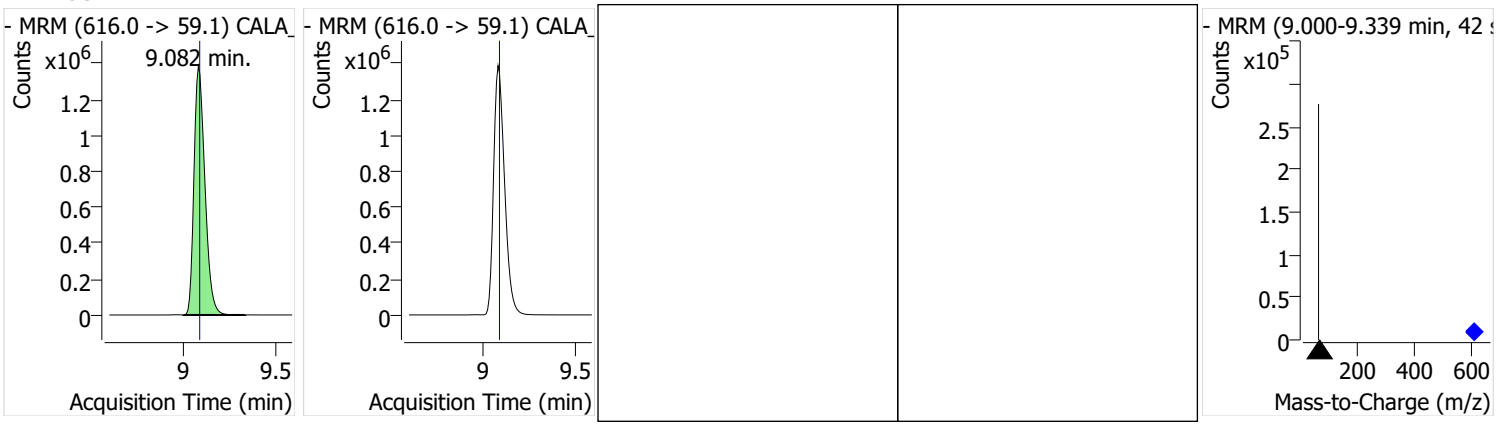

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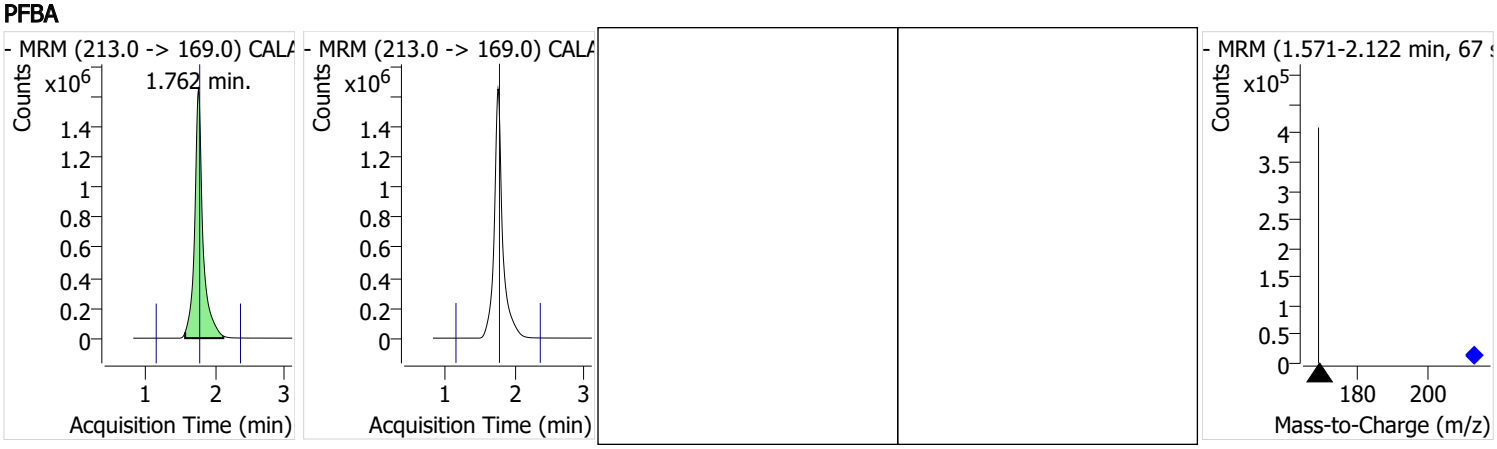

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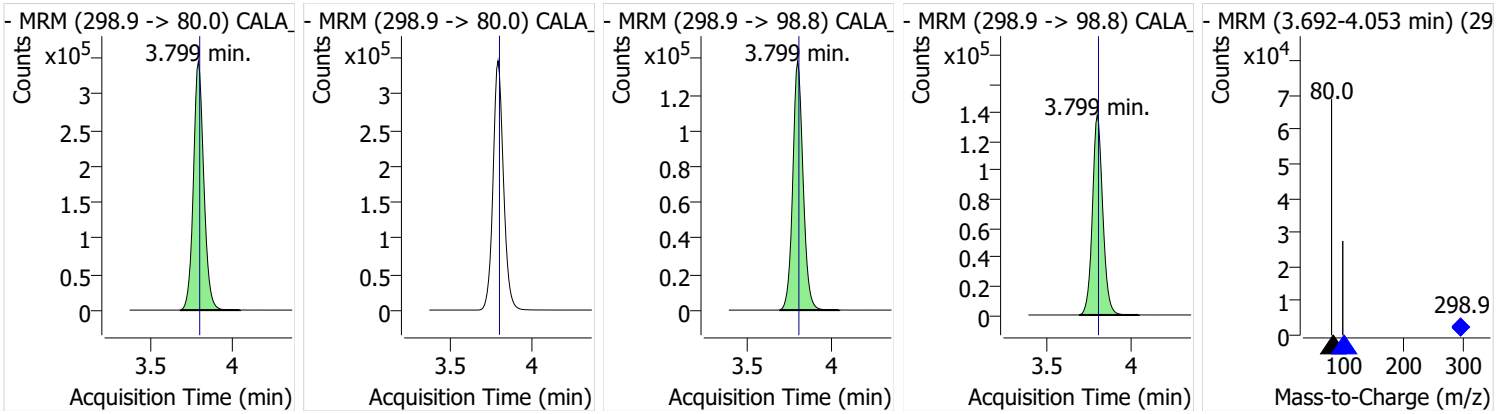

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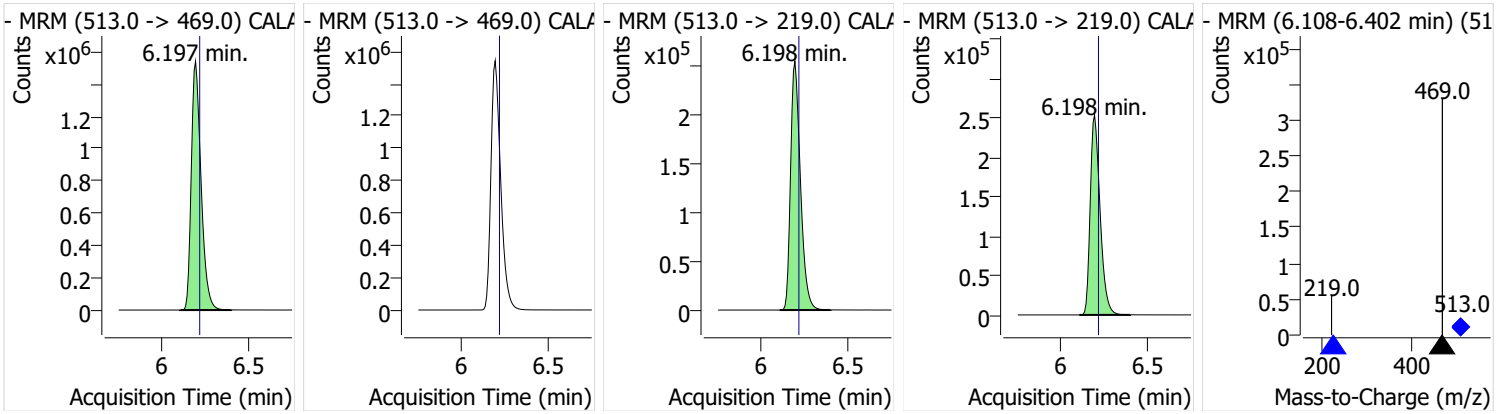

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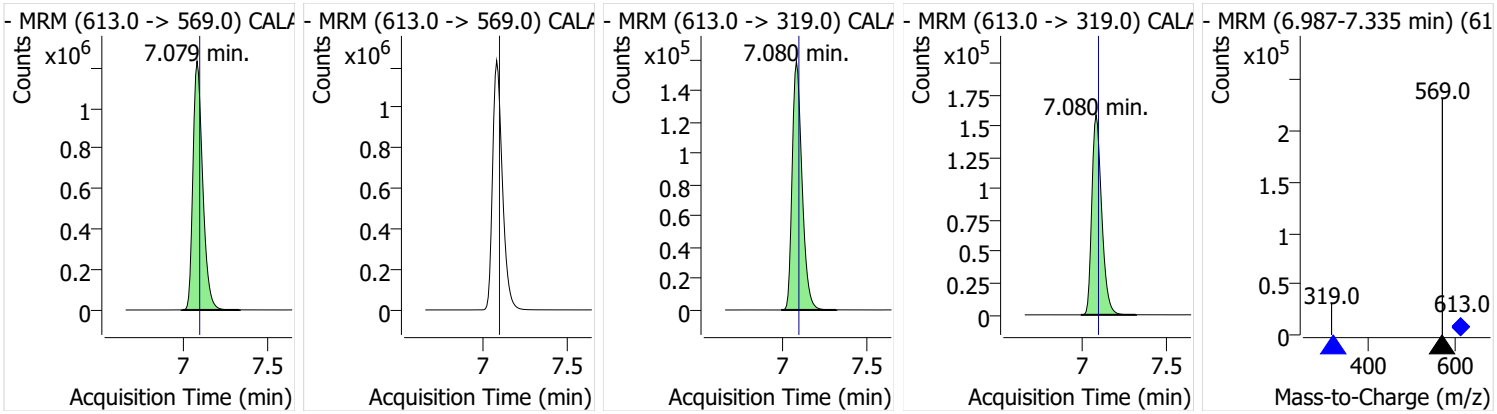

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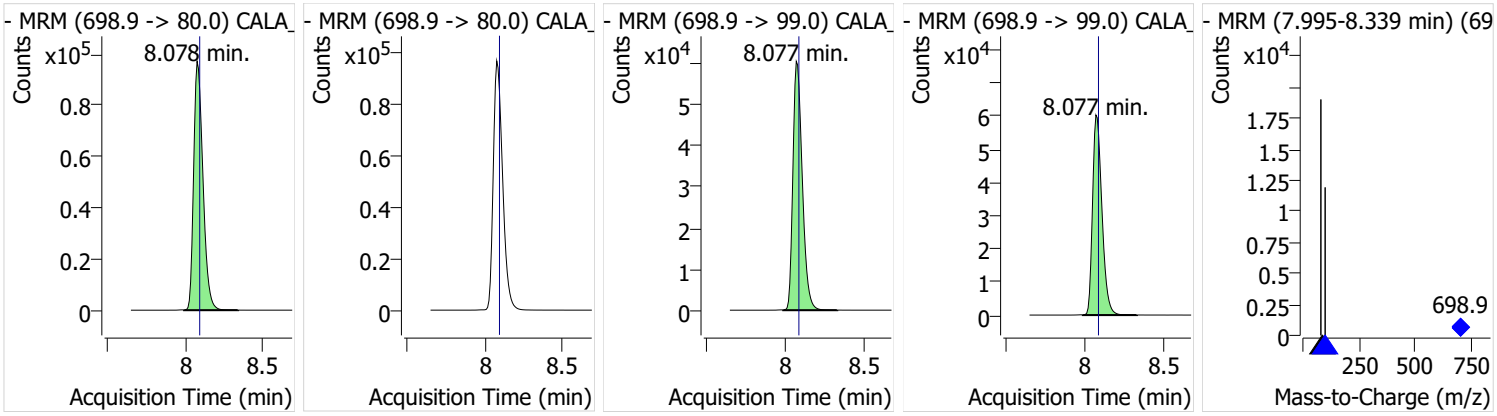

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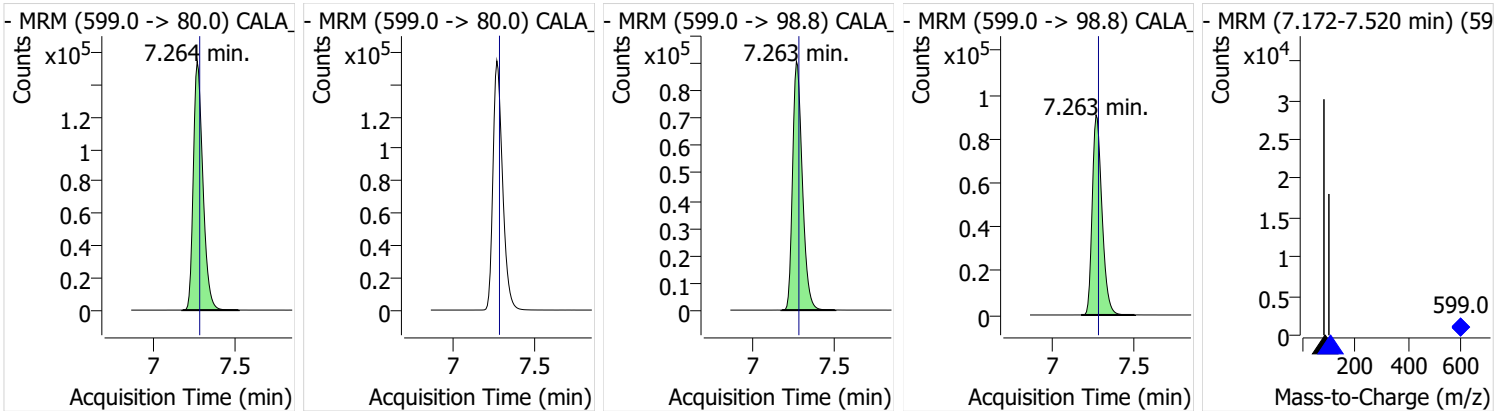

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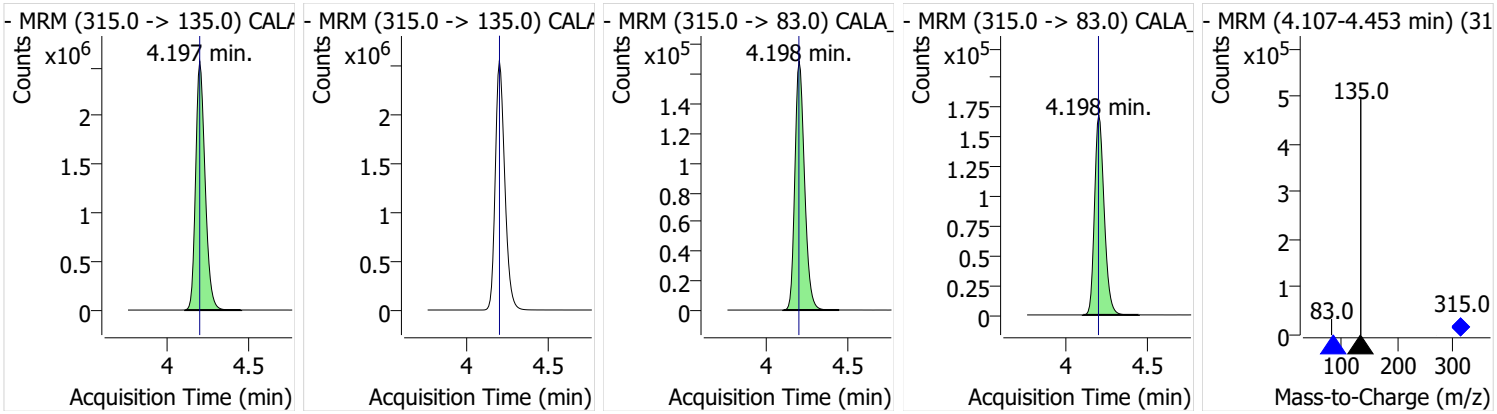

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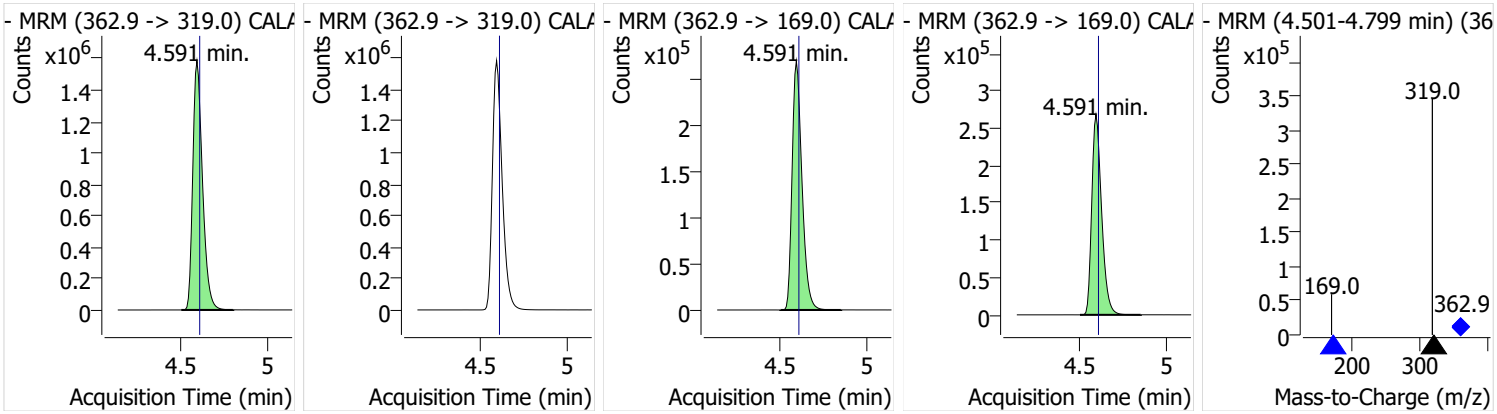

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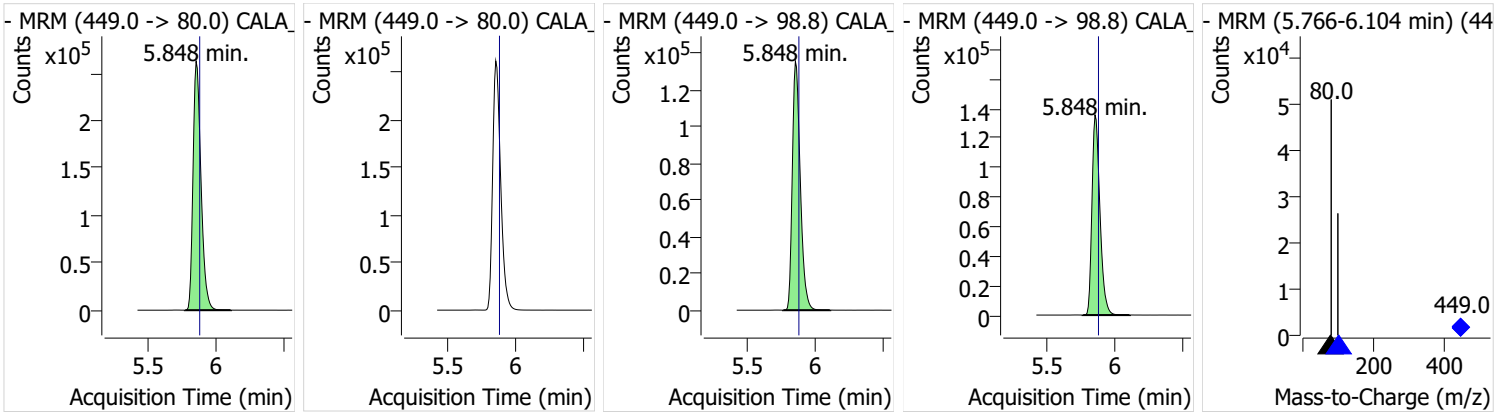

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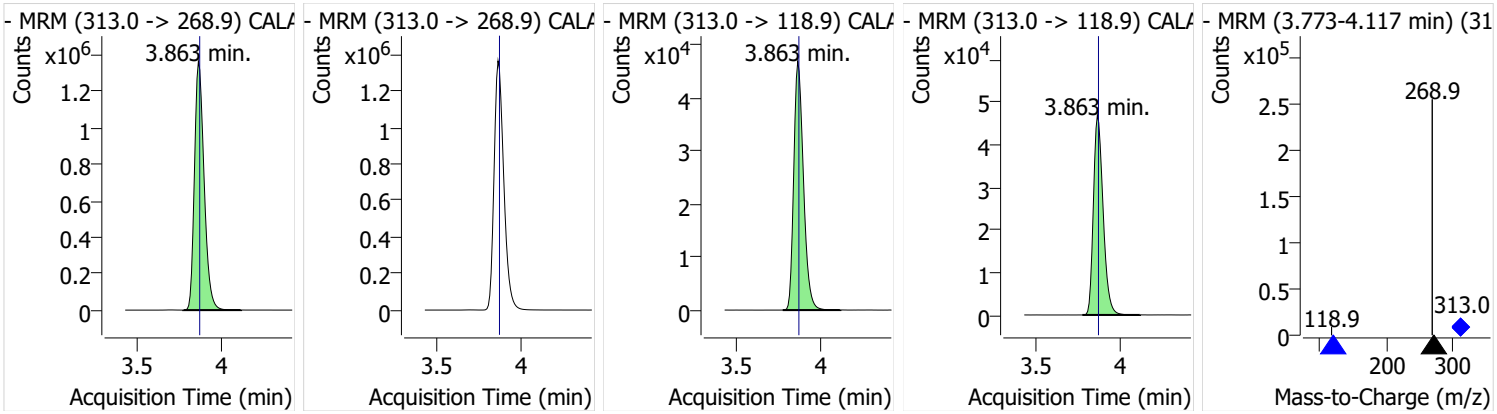

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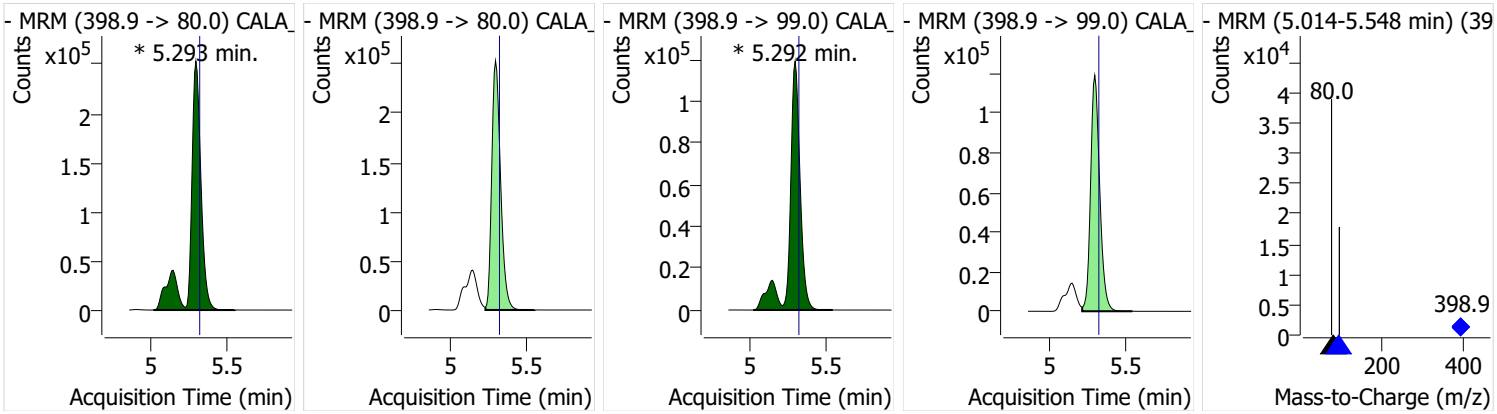

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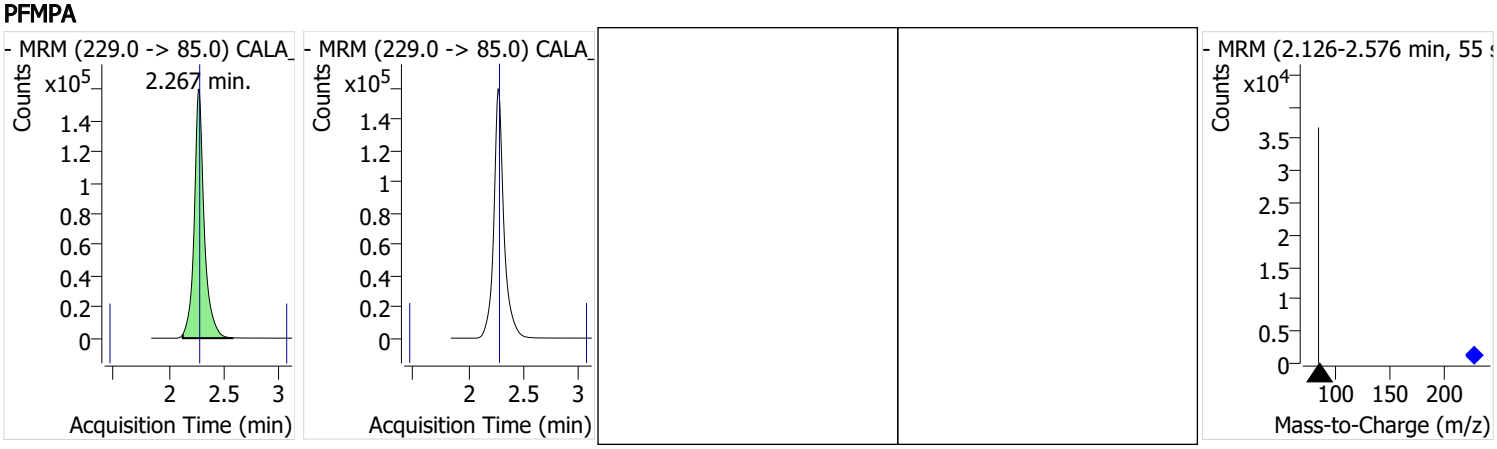

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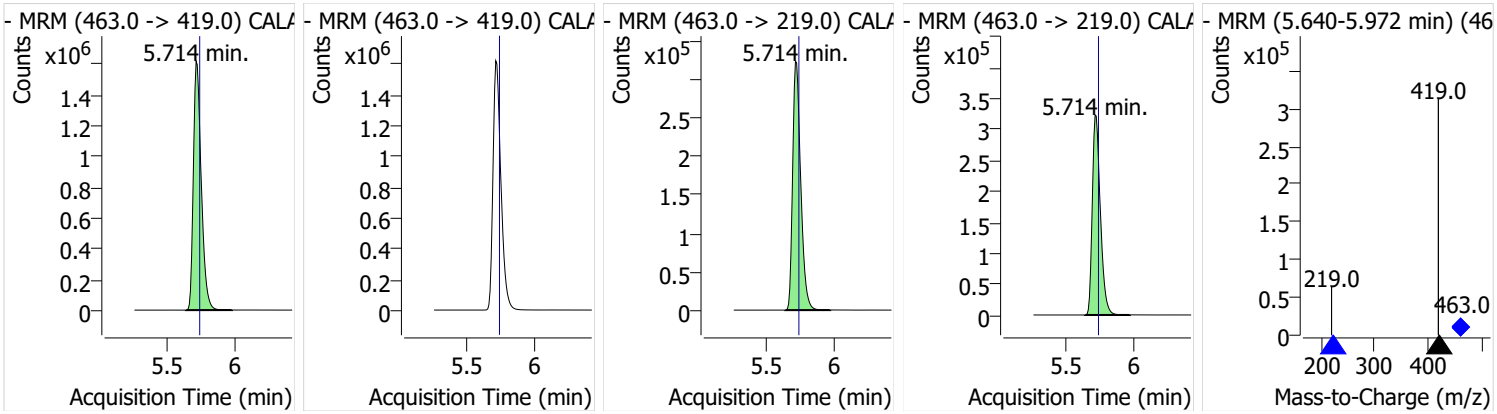

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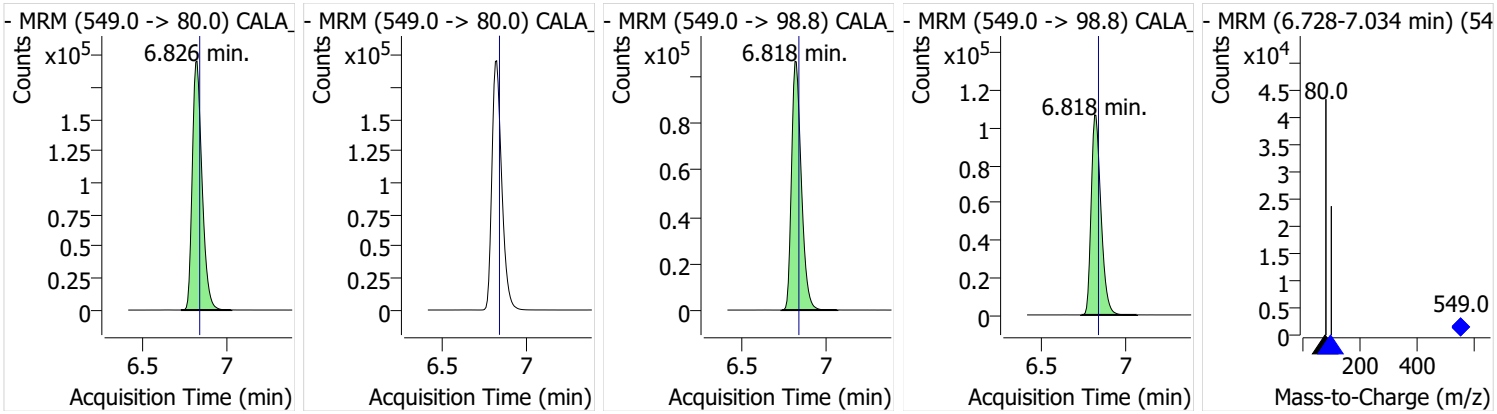

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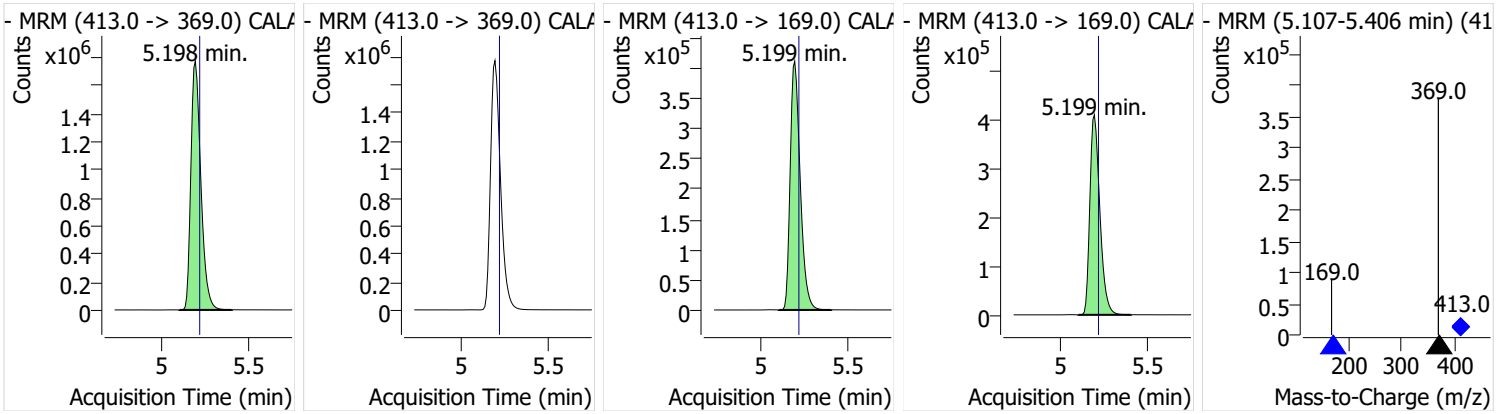
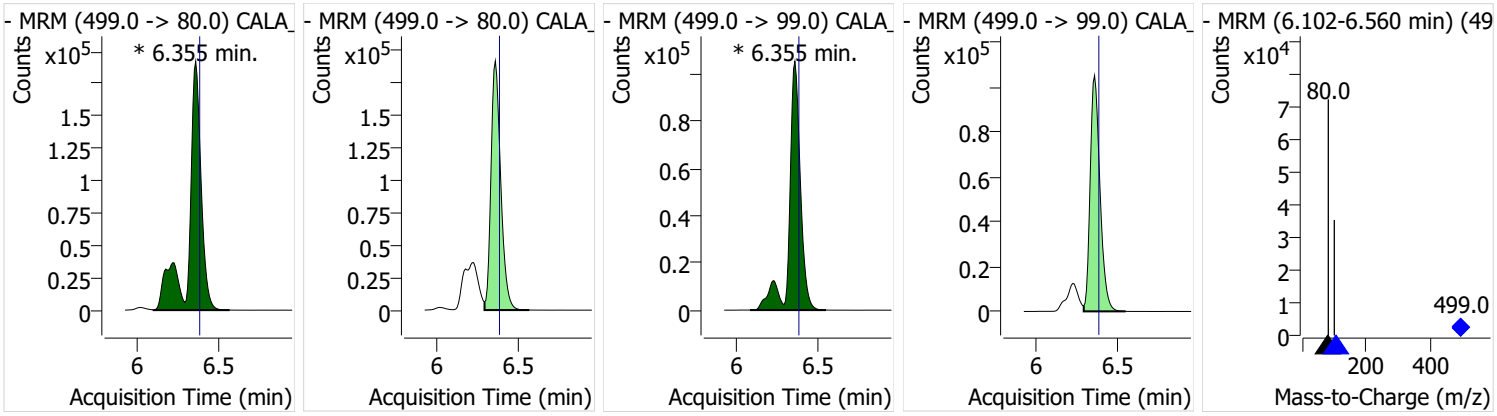
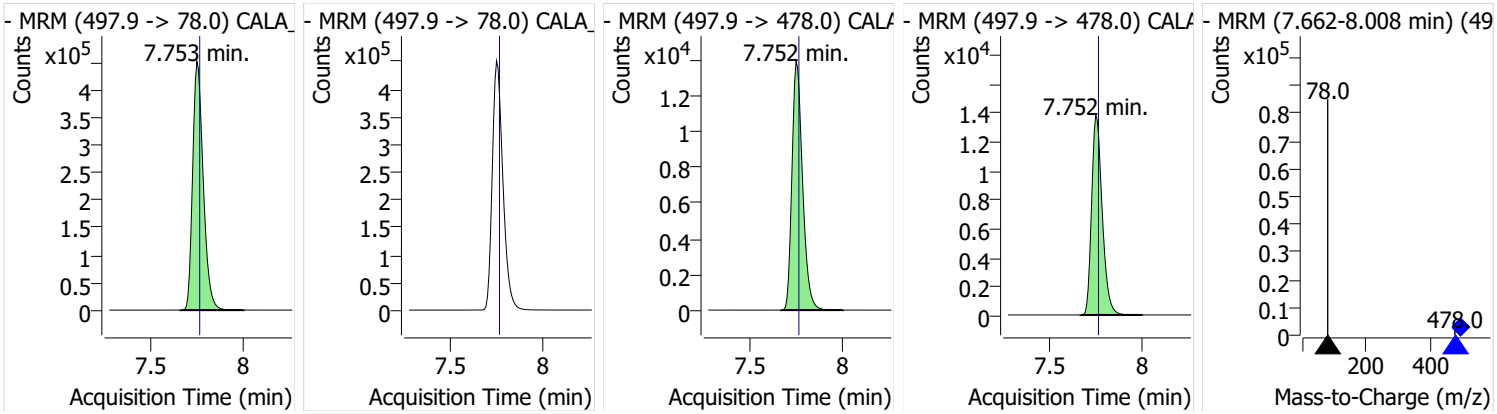


PFOS



PFOSA



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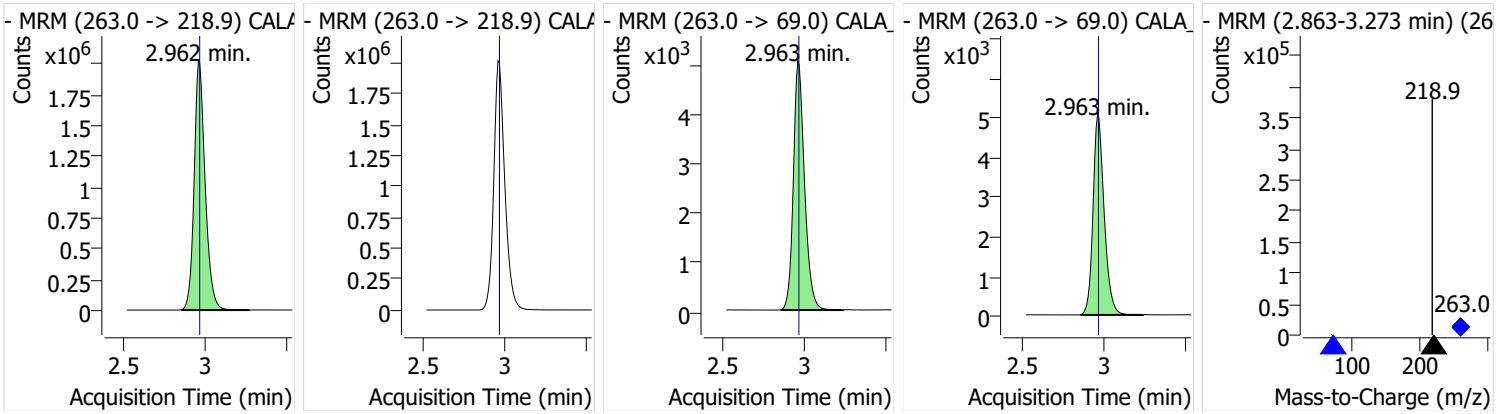

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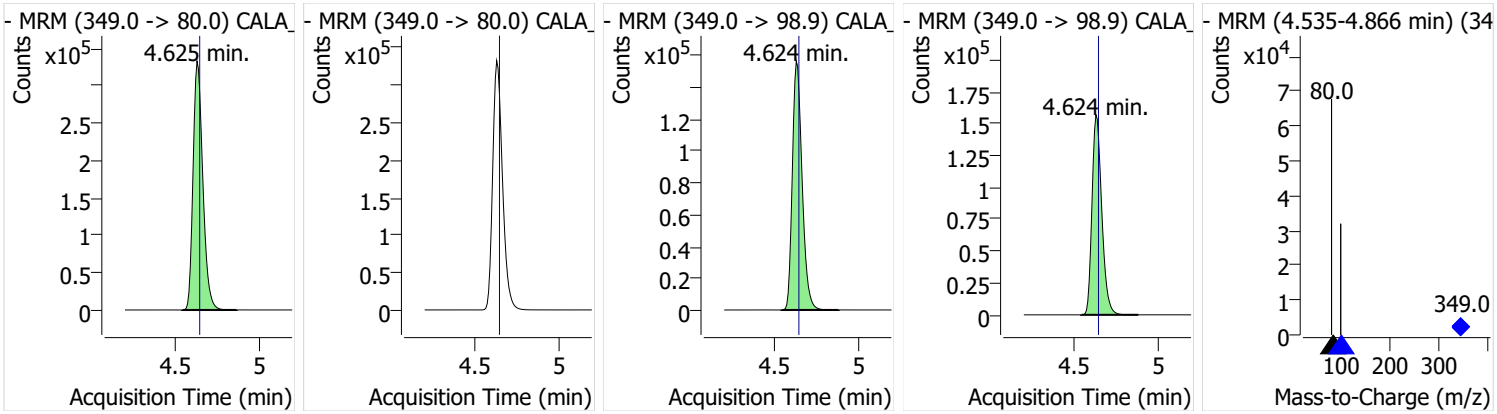

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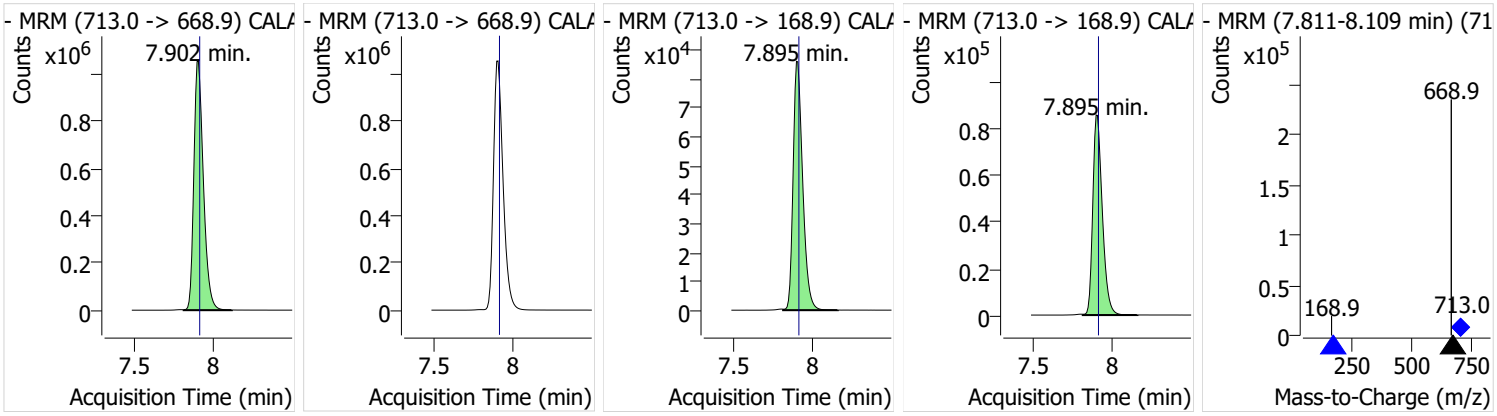
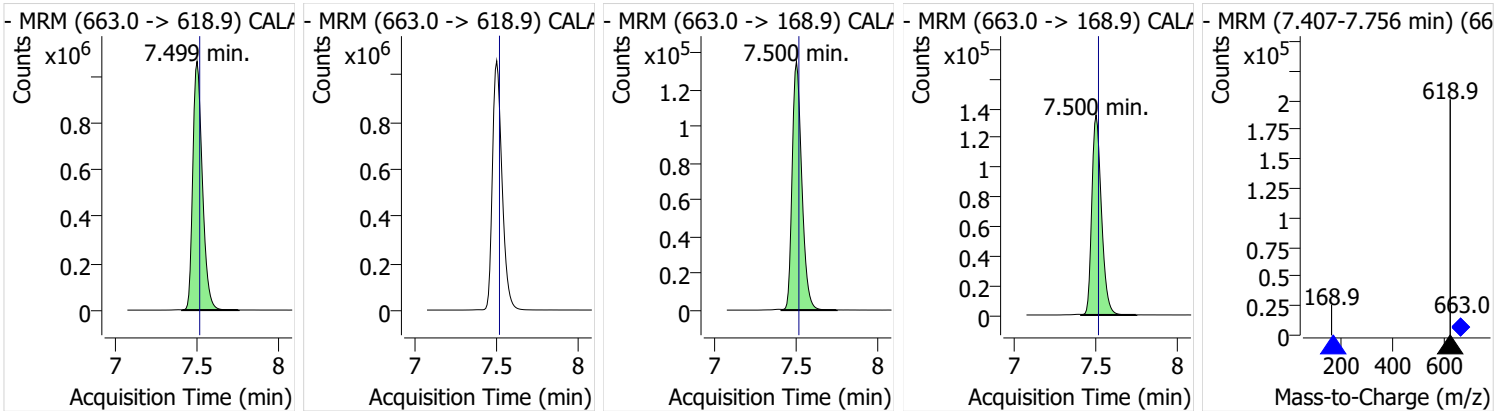
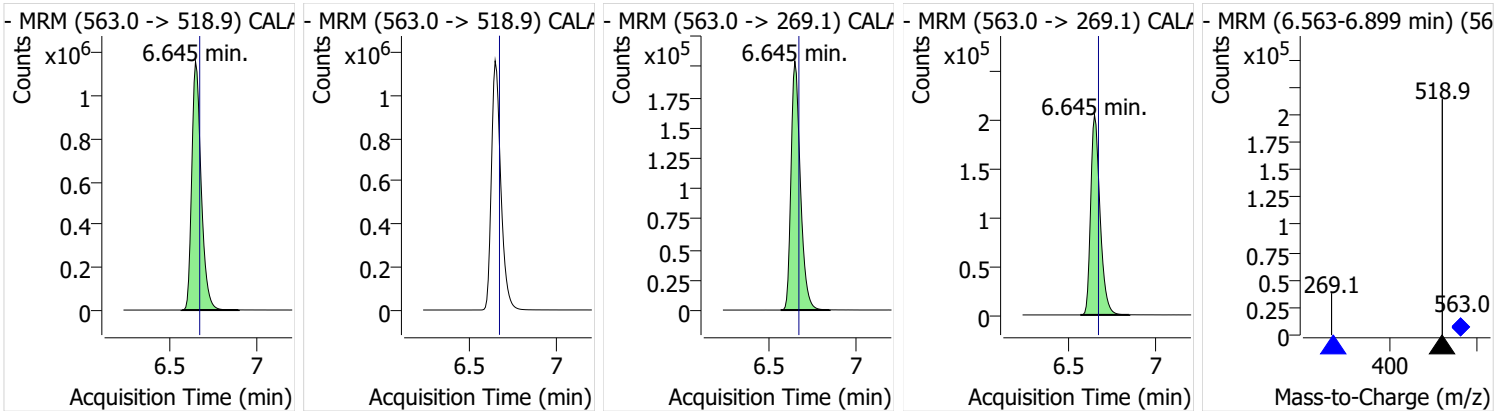


PFTrDA



PFUnA



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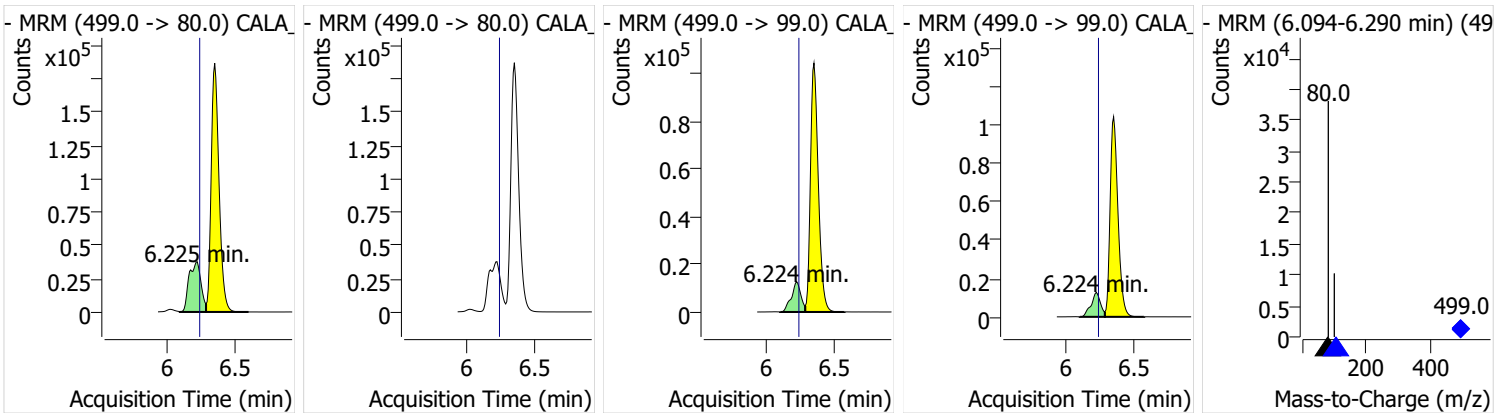
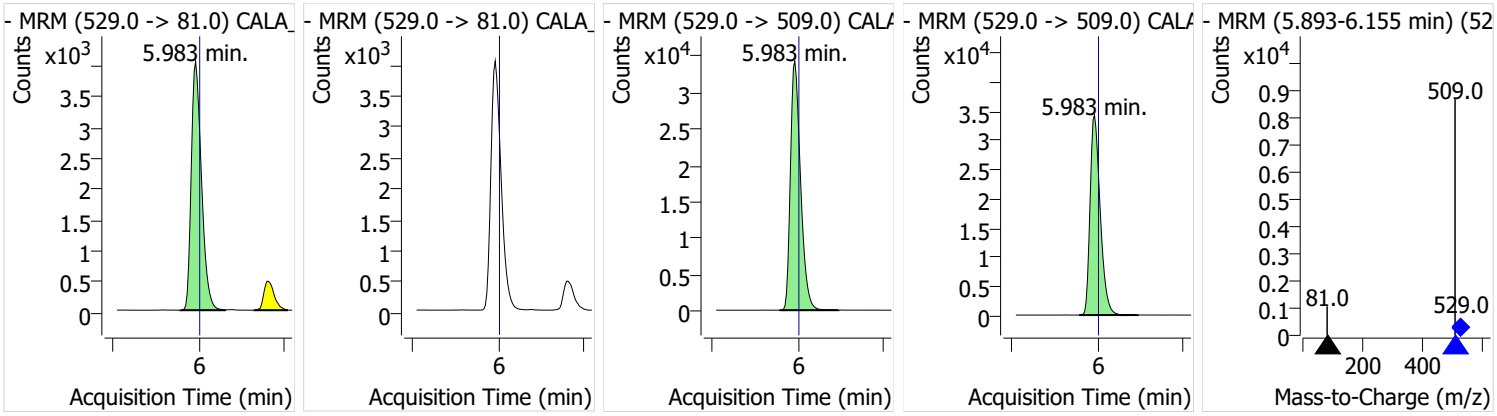
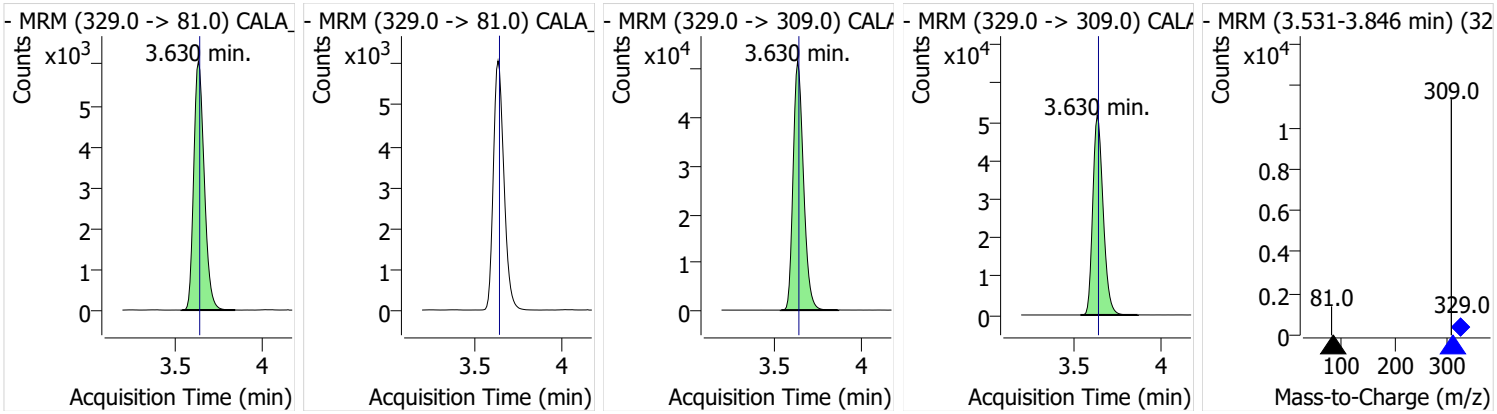


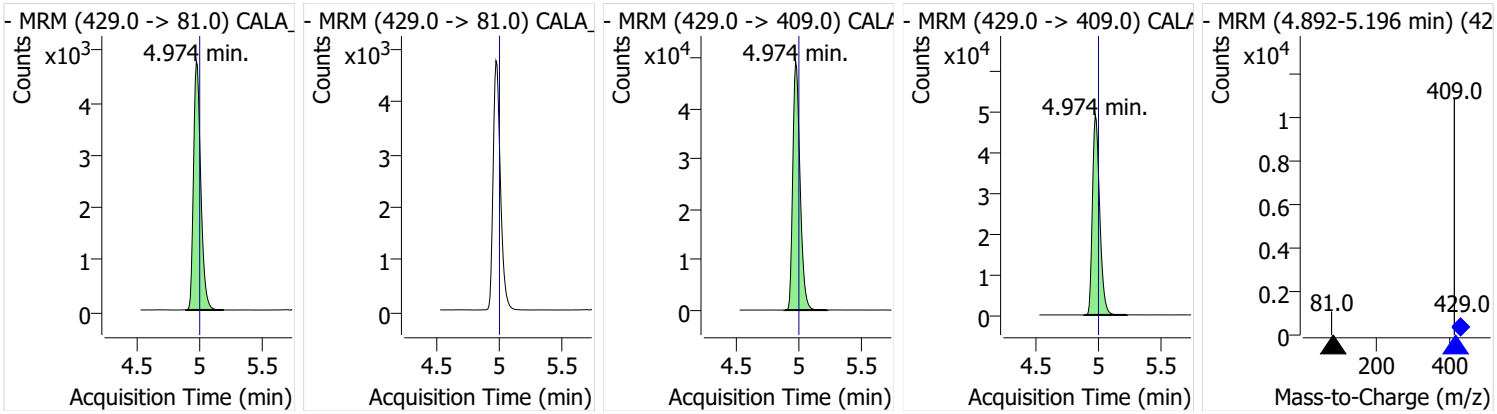
13C2-8:2FTS



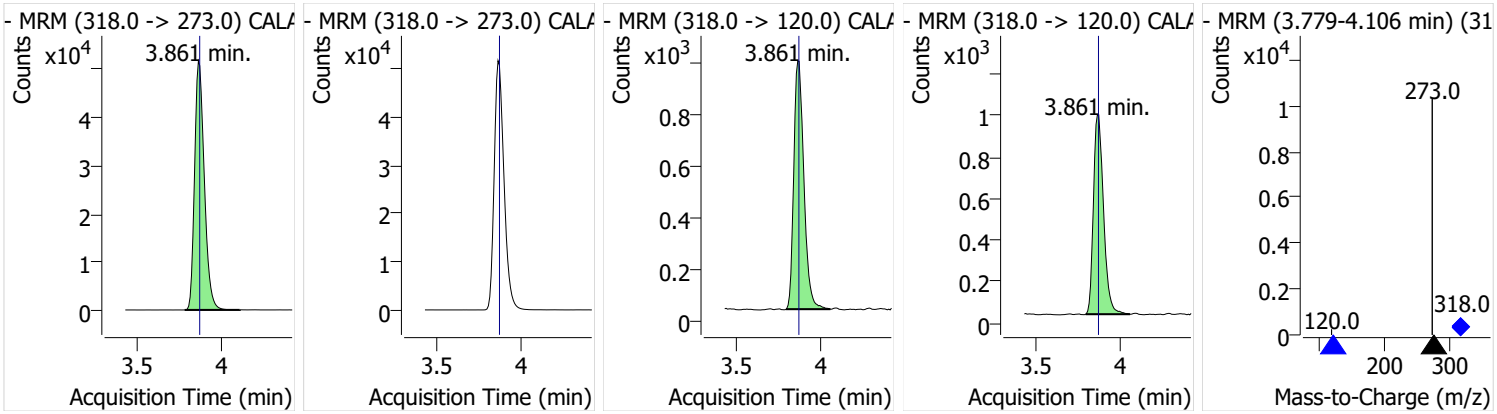
13C2-4:2FTS



13C2-6:2FTS



13C5-PFHxA



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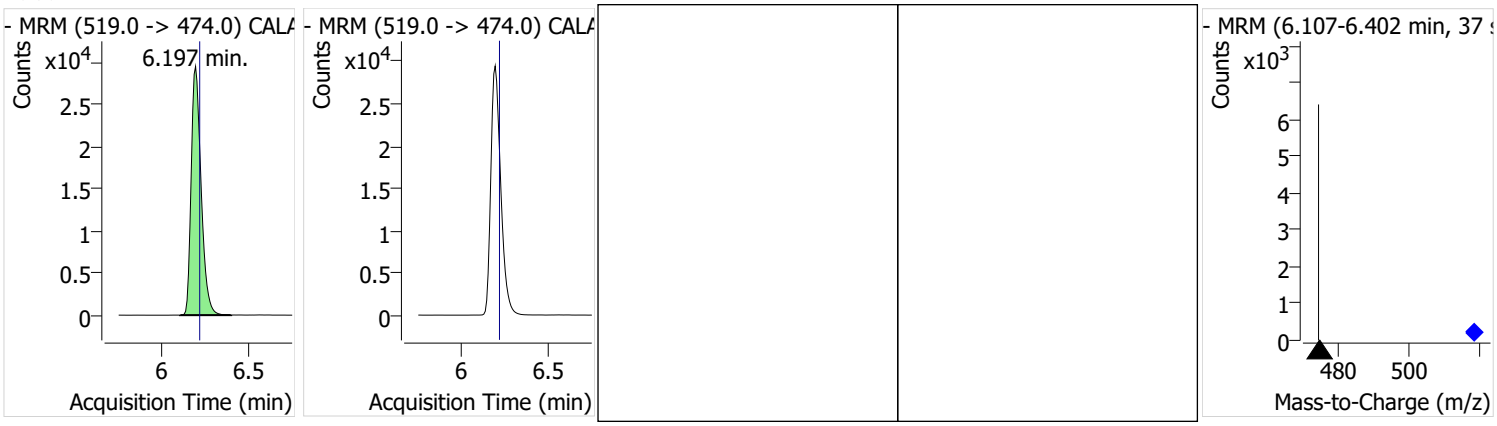

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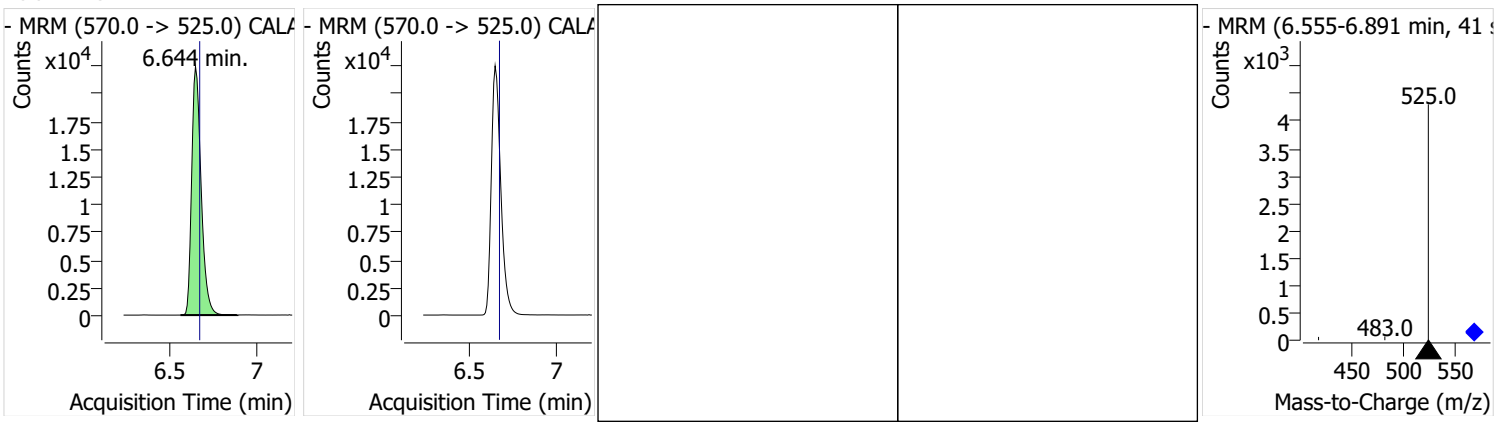

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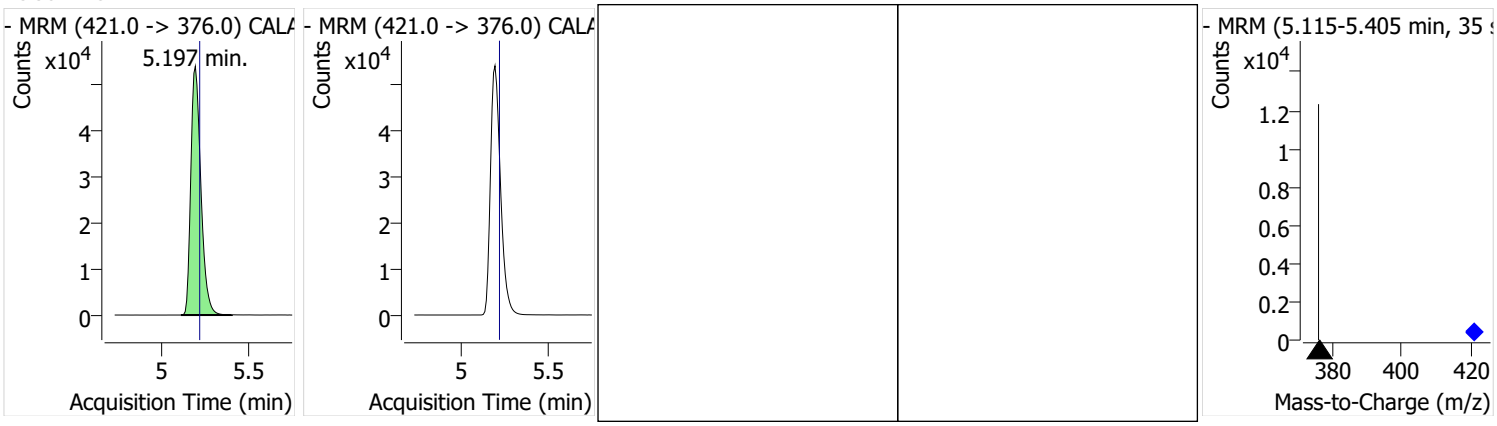

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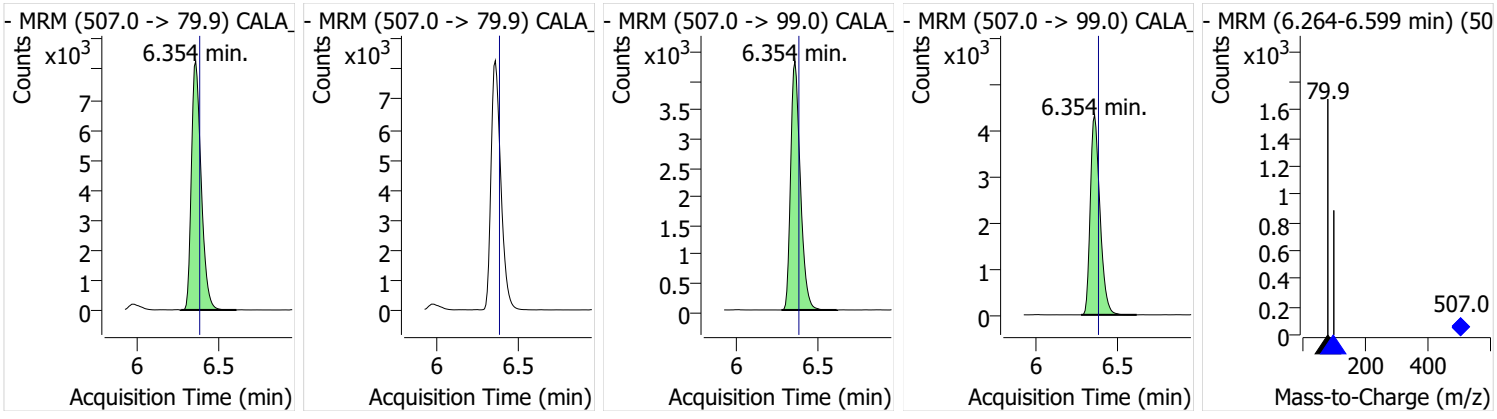

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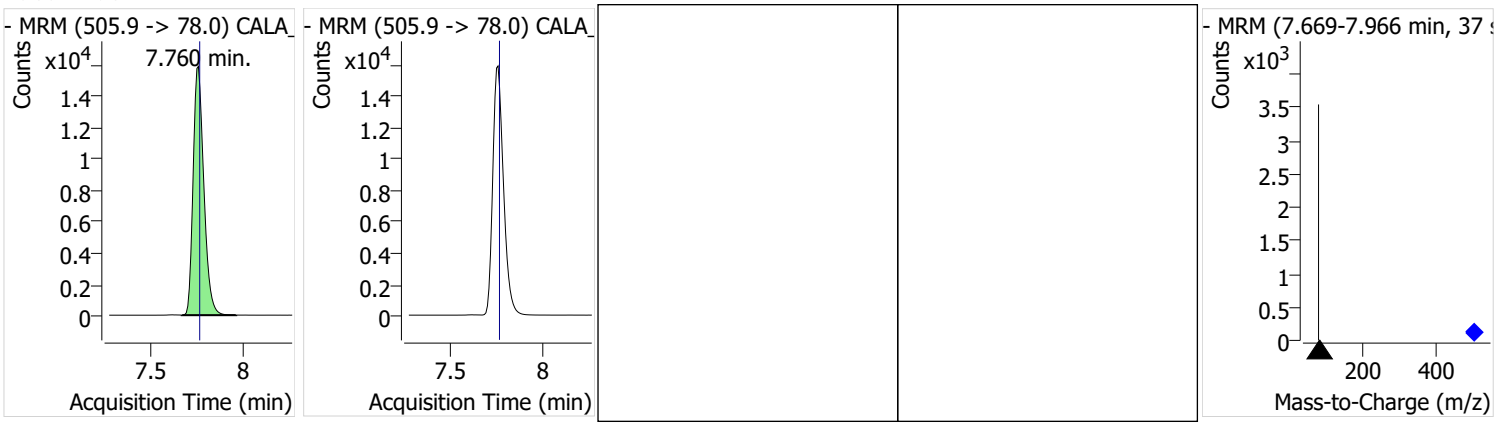
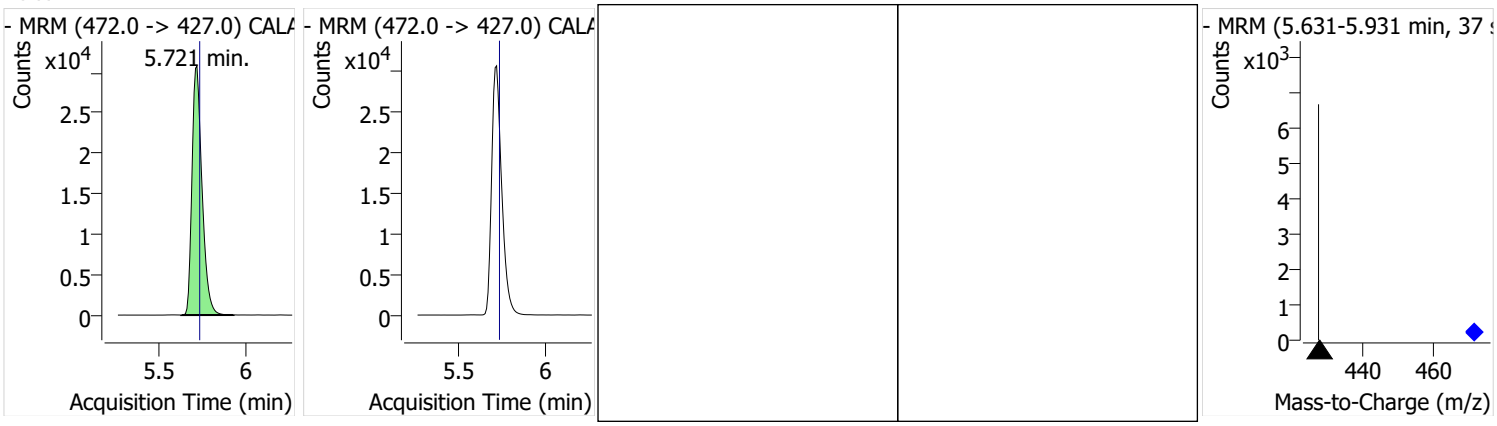
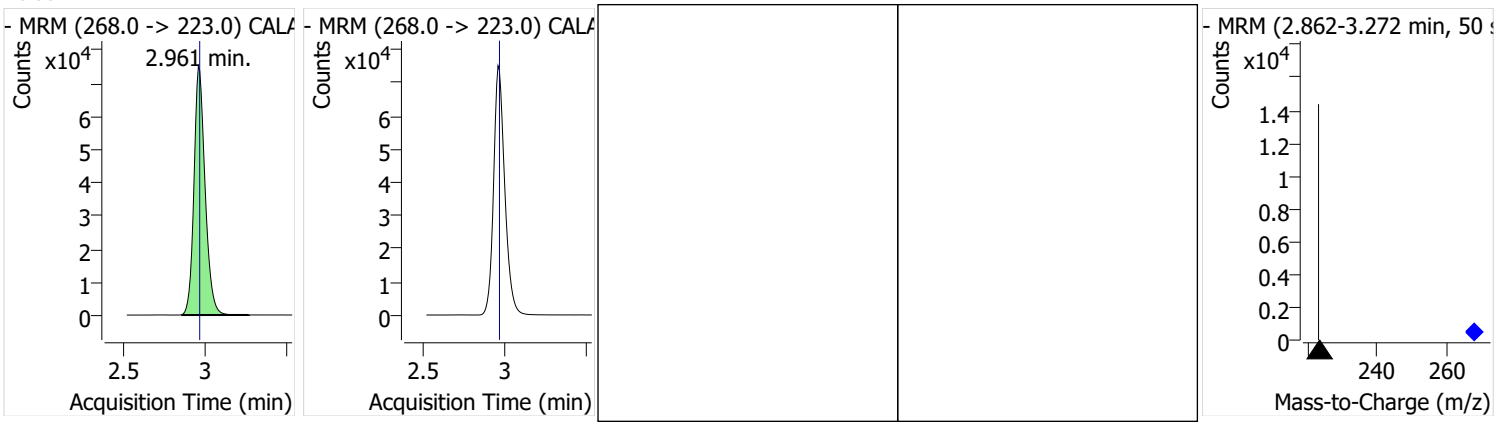


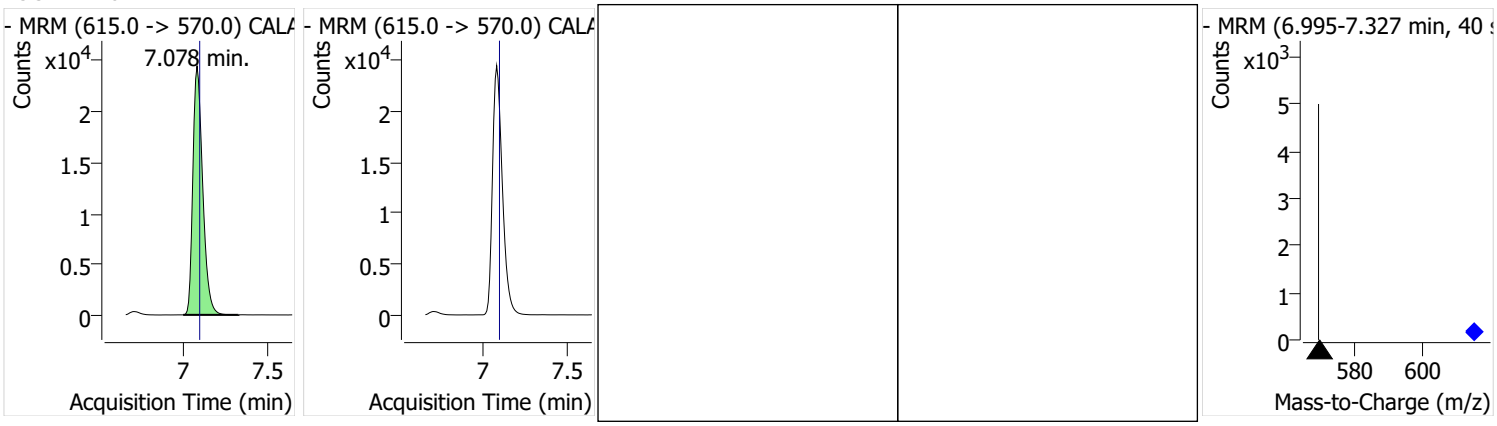
13C9-PFNA



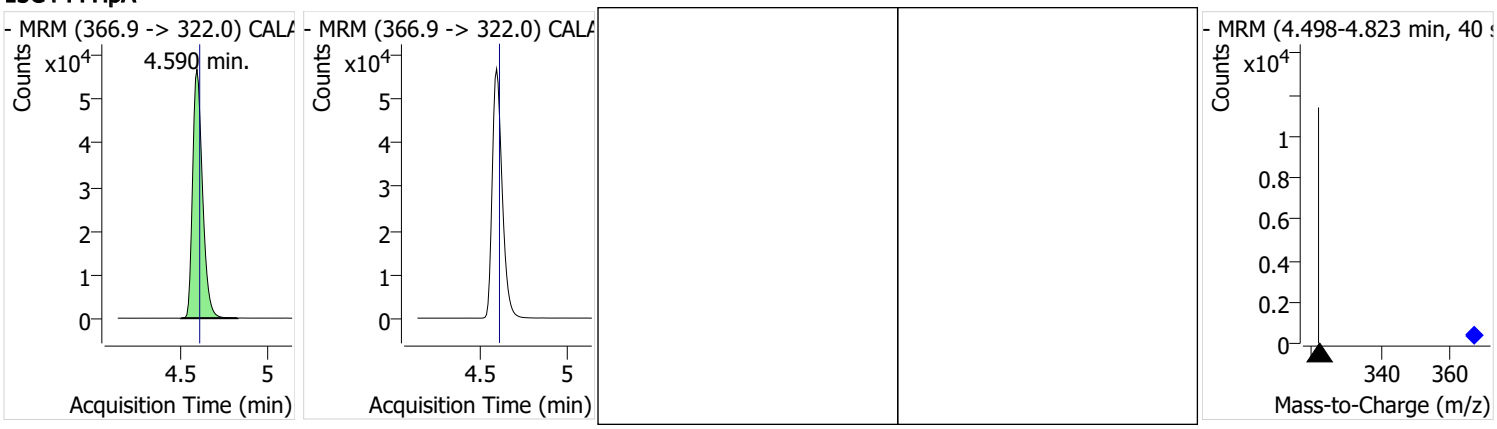
13C5-PFPeA



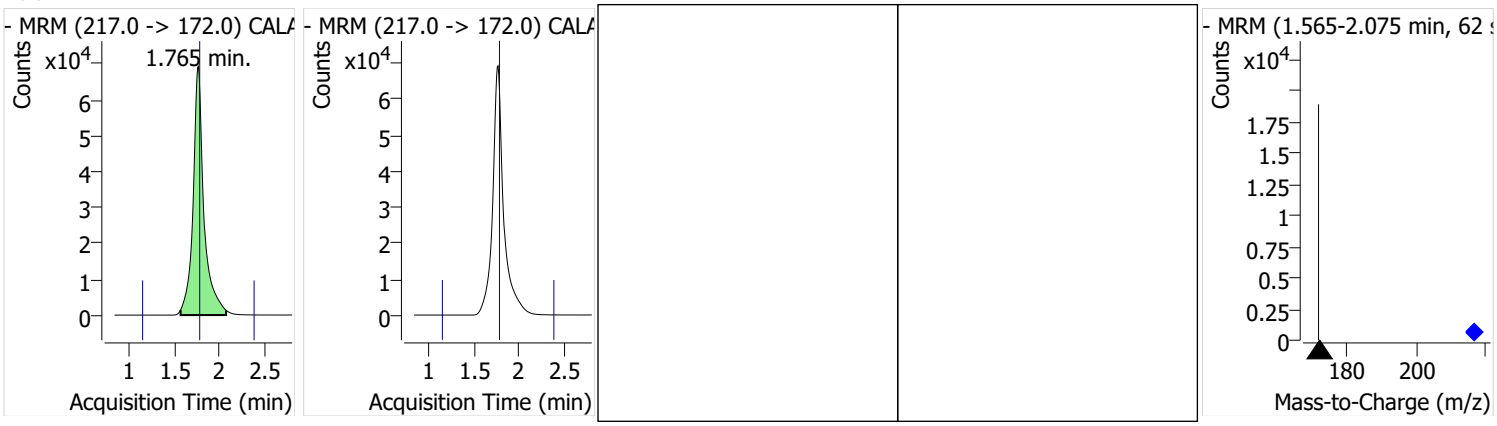
13C2-PFDoA



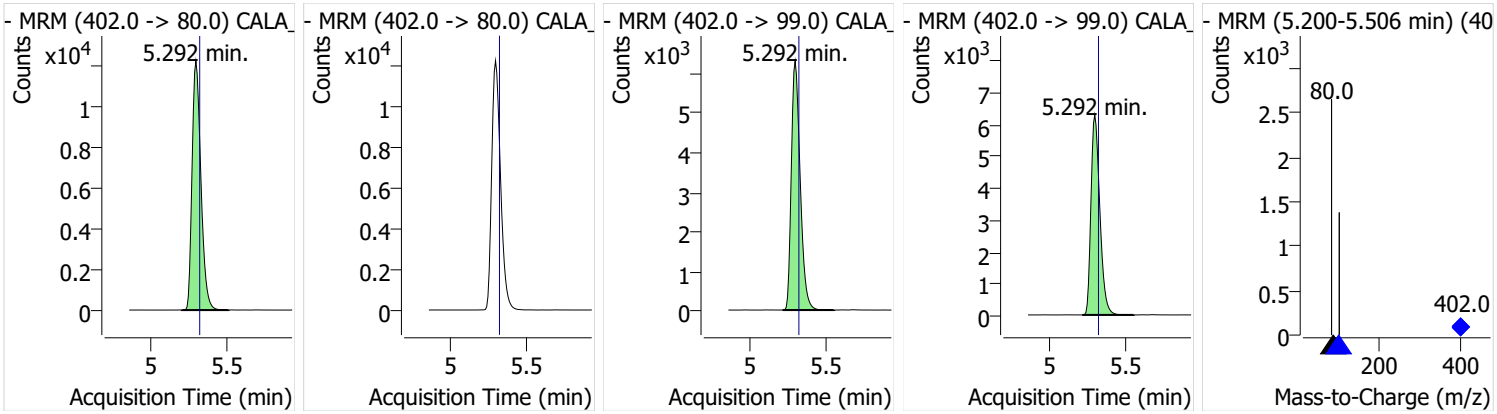
13C4-PFHpA



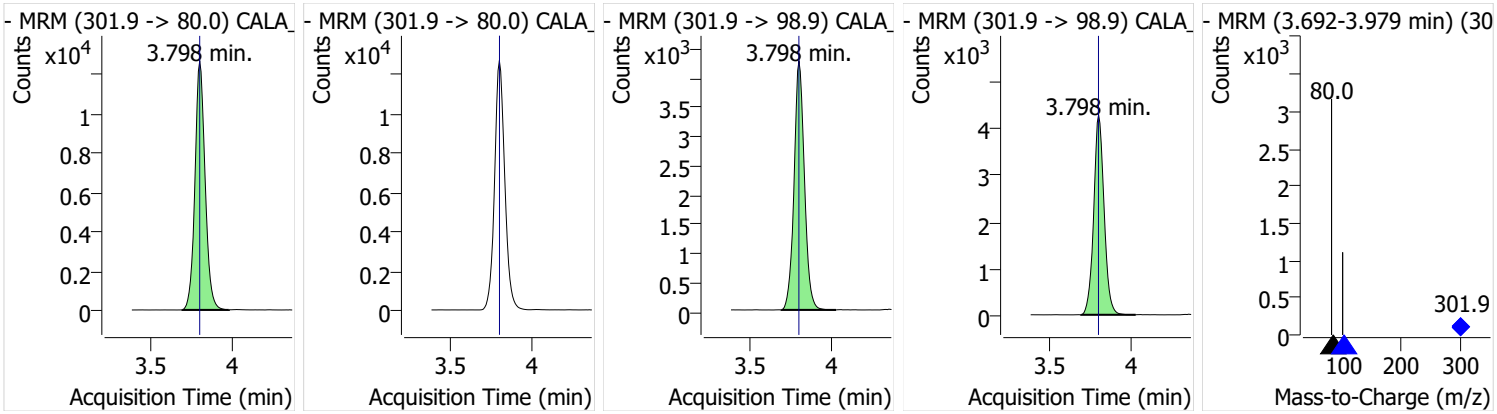
13C4-PFBA



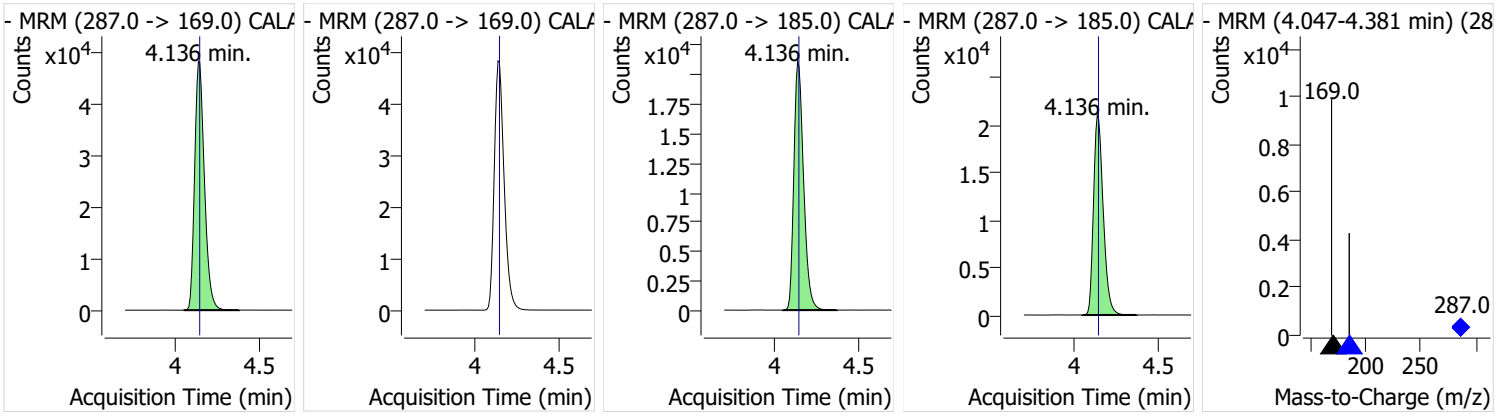
13C3-PFHxS



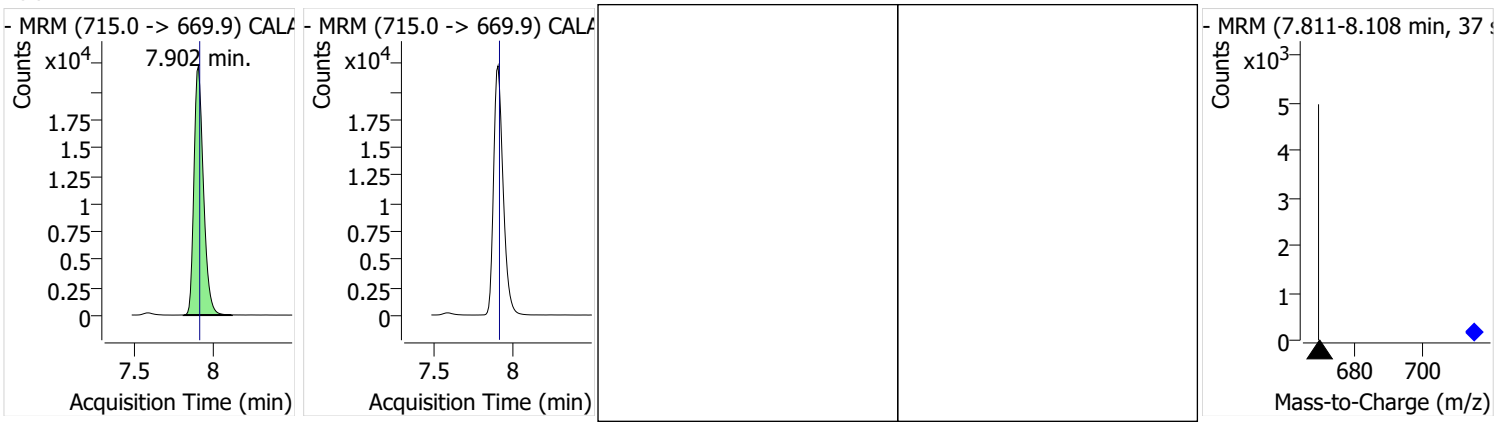
13C3-PFBS



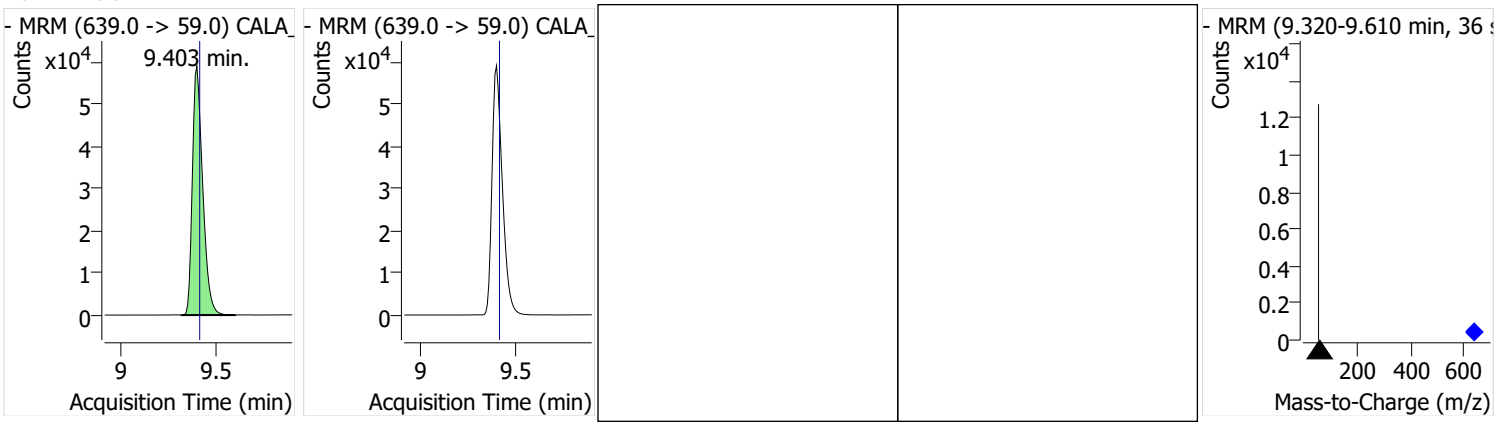
13C3-HFPODA



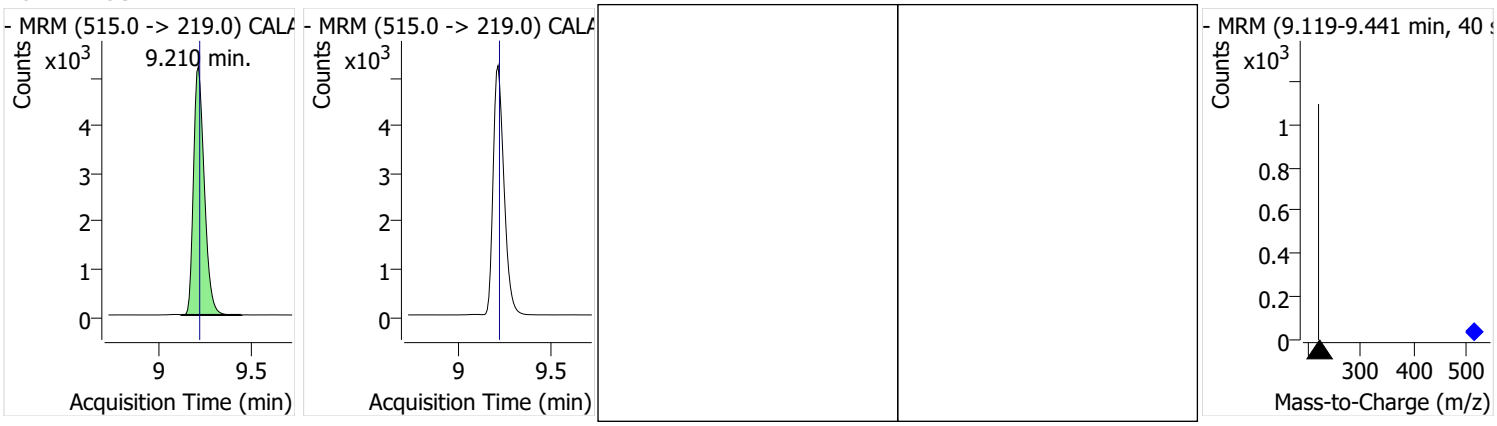
13C2-PFTeDA



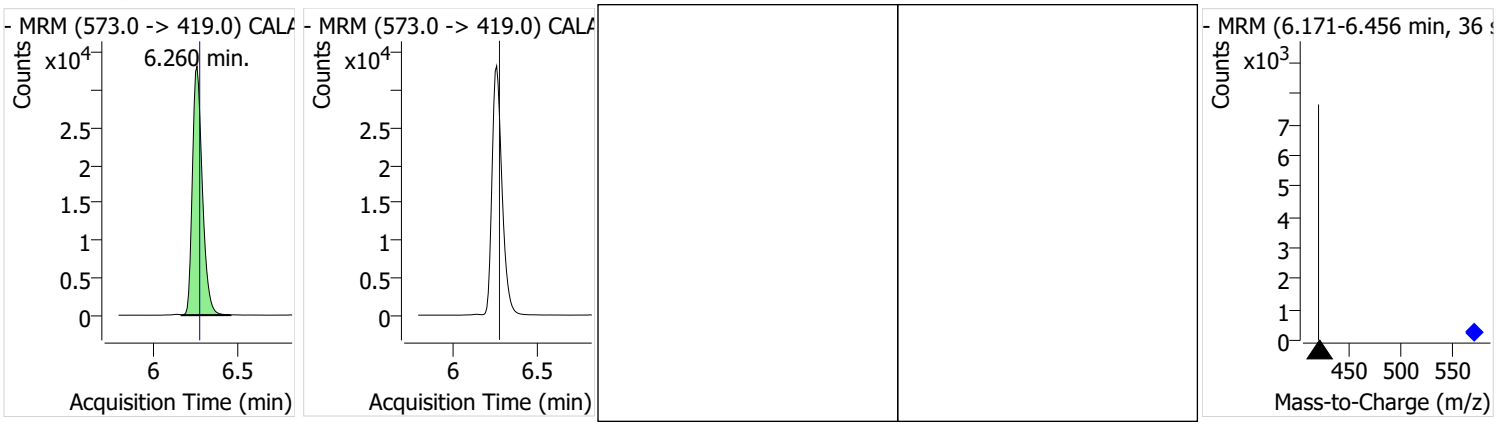
D9-NEtFOSE



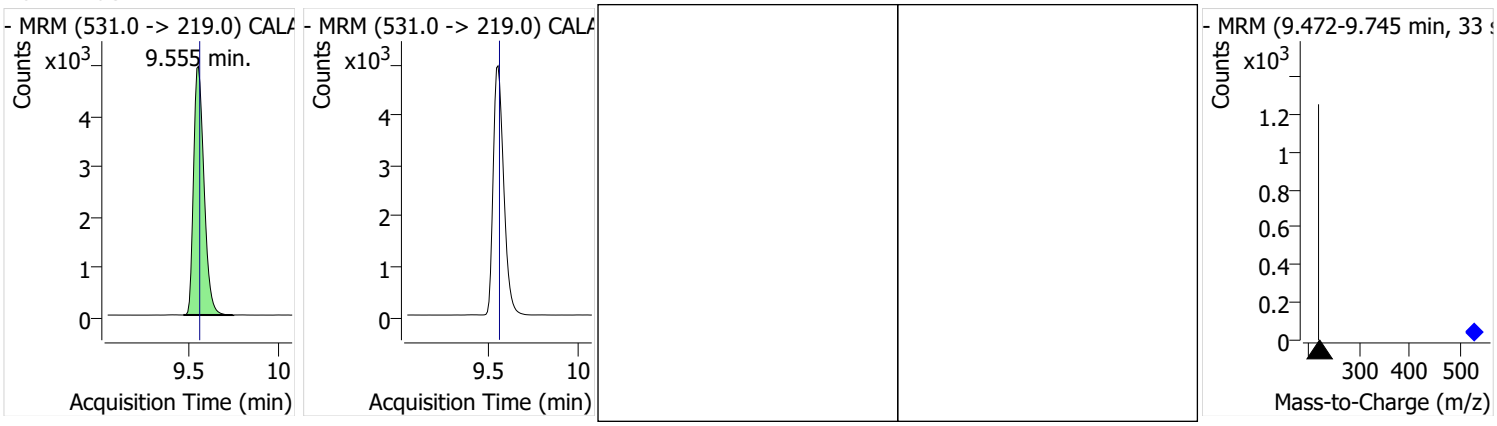
D3-NMeFOSA



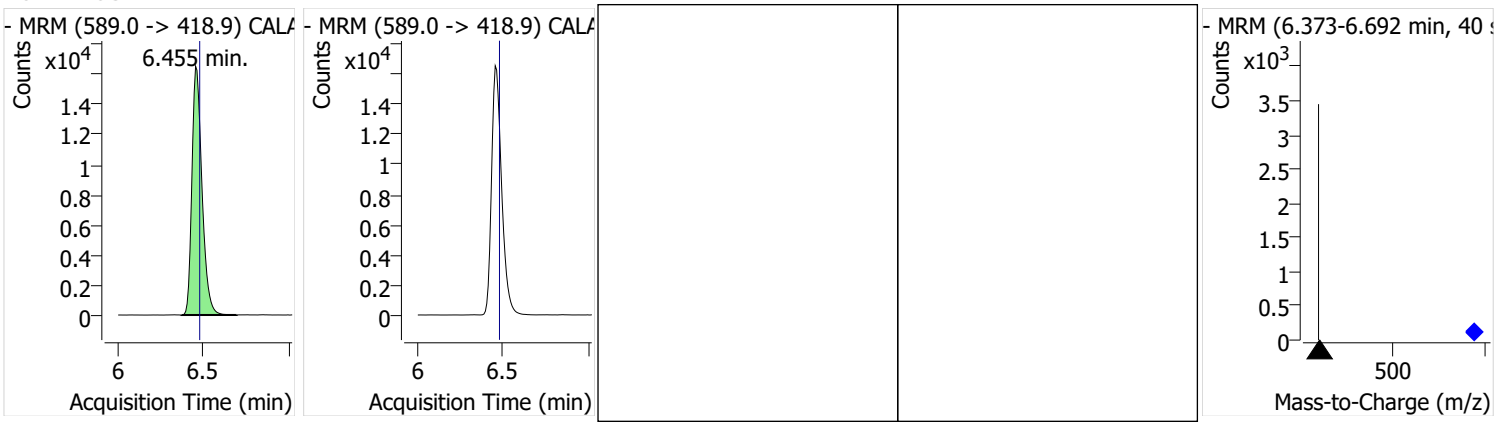
D3-NMeFOSAA



D5-NEtFOSA



D5-NEtFOSAA



D7-NMeFOSE

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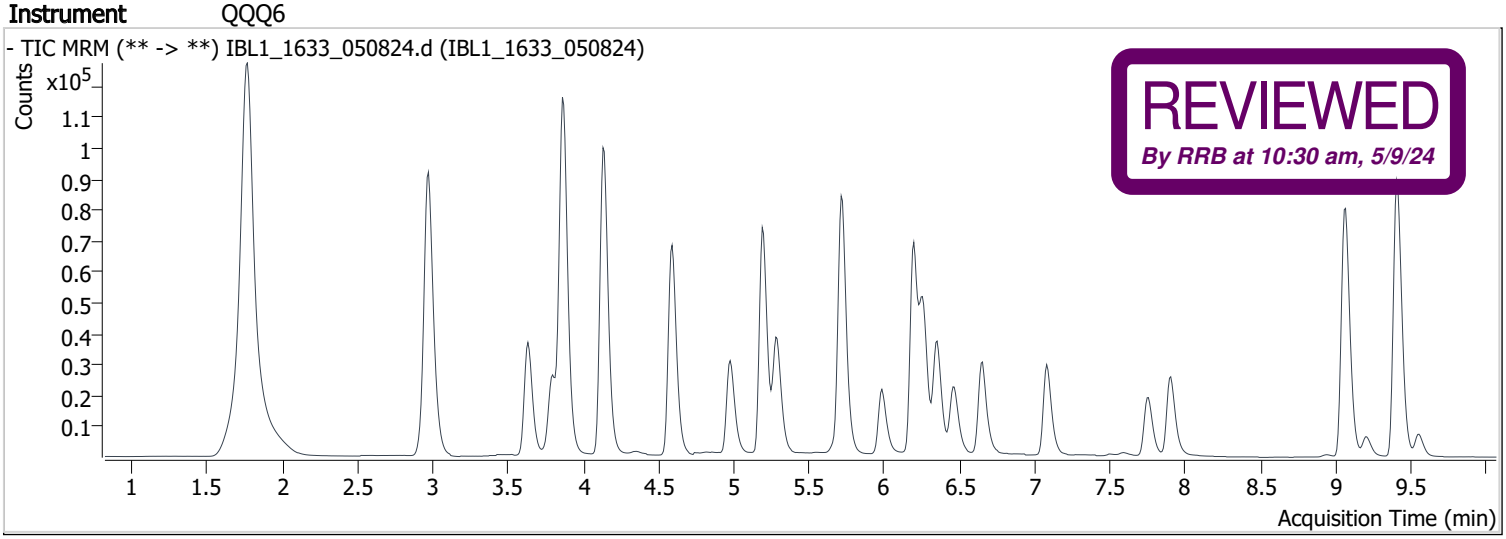
Analysis Time	5/9/2024 9:16 AM	**Last Calib Update**	5/9/2024 9:16 AM
Acq. Time	5/8/2024 8:53 PM	**Data File**	IBL1_1633_050824.d
Sample Type	Sample	**Sample Name**	IBL1_1633_050824
Dilution	1	**Acq. Method**	1633_ACQUISITION_01.m
Sample Comment	E#24E0177	**Processing method**	1633_042924.m
Instrument	QQQ6		



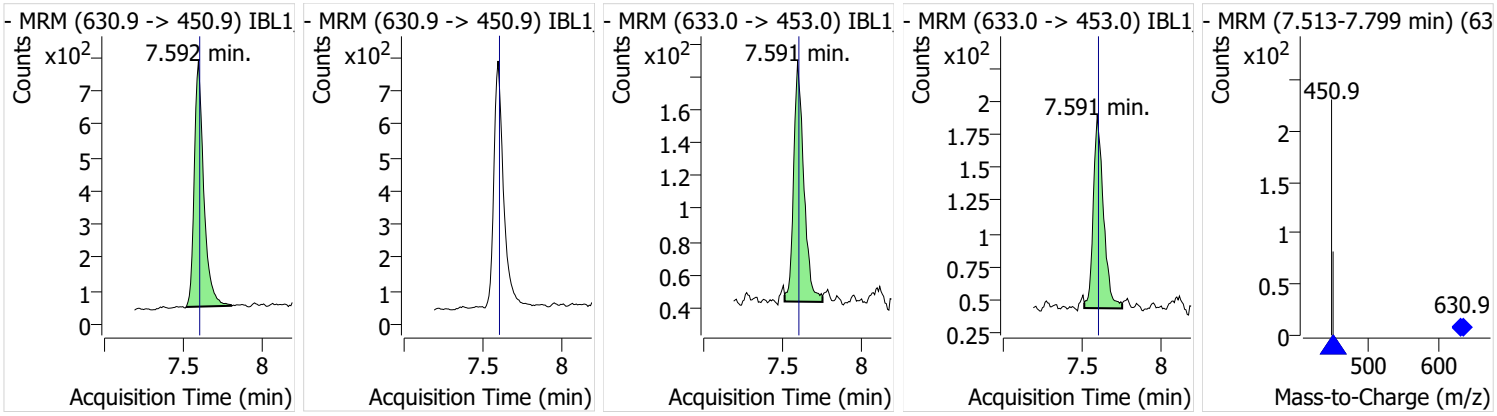
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
11Cl-PF3OUdS	7.592	3087	294.42		13C3-HFPODA - ISTD	4.136	263332	0.0397	ng/ml			
633.0 -> 453.0			92.03	21.1								
3:3FTCA	2.532	0			13C5-PFPeA - ISTD	2.970	409092	-	ng/ml	✔	1	AMS 05/09/24
241.0 -> 117.0				*								
4:2FTS	3.647	0			13C2-4:2FTS - ISTD	3.630	39379	-	ng/ml	✔	1	AMS 05/09/24
327.0 -> 80.9				*								
5:3FTCA	4.351	1927	139.97		13C5-PFHxA - ISTD	3.861	221347	0.2185	ng/ml			
341.0 -> 217.0			99.14	95.1								
6:2FTS	4.991	0			13C2-6:2FTS - ISTD	4.974	26289	-	ng/ml	✔	1	AMS 05/09/24
427.0 -> 80.9				*								
7:3FTCA	5.674	9140	384.01		13C5-PFHxA - ISTD	3.861	221347	0.8799	ng/ml			
441.0 -> 317.0			348.27	85.2								
8:2FTS	5.975	0			13C2-8:2FTS - ISTD	5.983	21422	-	ng/ml	✔	1	AMS 05/09/24
527.0 -> 81.0				*								
9Cl-PF3ONS	6.696	0			13C3-HFPODA - ISTD	4.136	263332	-	ng/ml	✔	1	AMS 05/09/24
533.0 -> 353.0				*								
ADONA	4.822	0			13C3-HFPODA - ISTD	4.136	263332	-	ng/ml	✔	1	AMS 05/09/24
377.0 -> 85.1				*								
HFPO-DA	4.137	0			13C3-HFPODA - ISTD	4.136	263332	-	ng/ml	✔	1	AMS 05/09/24
285.0 -> 184.9				*								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
NEtFOSA	9.556	0			D5-NEtFOSA - ISTD	9.555	26014	-	ng/ml	✔	1	AMS 05/09/ 24
526.0 -> 219.0				*								
NEtFOSAA	6.463	0			D5-NEtFOSAA - ISTD	6.463	83814	-	ng/ml	✔	1	AMS 05/09/ 24
584.0 -> 526.0				*								
NEtFOSE	9.428	2173	243.60		D9-NEtFOSE - ISTD	9.403	352464	0.1380	ng/ml			
NFDHA	3.799	0			13C5-PFHxA - ISTD	3.861	221347	-	ng/ml	✔	1	AMS 05/09/ 24
295.0 -> 85.0				*								
NMeFOSA	9.203	0			D3-NMeFOSA - ISTD	9.210	23957	-	ng/ml	✔	1	AMS 05/09/ 24
512.0 -> 219.0				*								
NMeFOSAA	6.261	0			D3-NMeFOSAA - ISTD	6.260	160058	-	ng/ml	✔	1	AMS 05/09/ 24
570.0 -> 418.9				*								
NMeFOSE	9.082	1753	373.16		D7-NMeFOSE - ISTD	9.065	319074	0.1273	ng/ml			
PFBA	1.762	0			13C4-PFBA - ISTD	1.765	664864	-	ng/ml	✔	1	AMS 05/09/ 24
PFBS	3.807	0			13C3-PFBS - ISTD	3.798	77762	-	ng/ml	✔	1	AMS 05/09/ 24
298.9 -> 98.8				*								
PFDA	6.189	0			13C6-PFDA - ISTD	6.197	131590	-	ng/ml	✔	1	AMS 05/09/ 24
513.0 -> 219.0				*								
PFDoA	7.079	1523	88.35		13C2-PFDoA - ISTD	7.078	113741	0.0162	ng/ml			
613.0 -> 319.0			57.38	9.2								
PFDoS	8.086	0			13C8-PFOS - ISTD	6.354	42041	-	ng/ml	✔	1	AMS 05/09/ 24
698.9 -> 99.0				*								
PFDS	7.256	0			13C8-PFOS - ISTD	6.354	42041	-	ng/ml	✔	1	AMS 05/09/ 24
599.0 -> 98.8				*								
PFEESA	4.149	0			13C5-PFHxA - ISTD	3.861	221347	-	ng/ml	✔	1	AMS 05/09/ 24
315.0 -> 83.0				*								
PFHpA	4.591	0			13C4-PFHpA - ISTD	4.590	258946	-	ng/ml	✔	1	AMS 05/09/ 24
362.9 -> 169.0				*								
PFHpS	5.840	0			13C8-PFOS - ISTD	6.354	42041	-	ng/ml	✔	1	AMS 05/09/ 24
449.0 -> 98.8				*								
PFHxA	3.863	0			13C5-PFHxA - ISTD	3.861	221347	-	ng/ml	✔	1	AMS 05/09/ 24
313.0 -> 118.9				*								

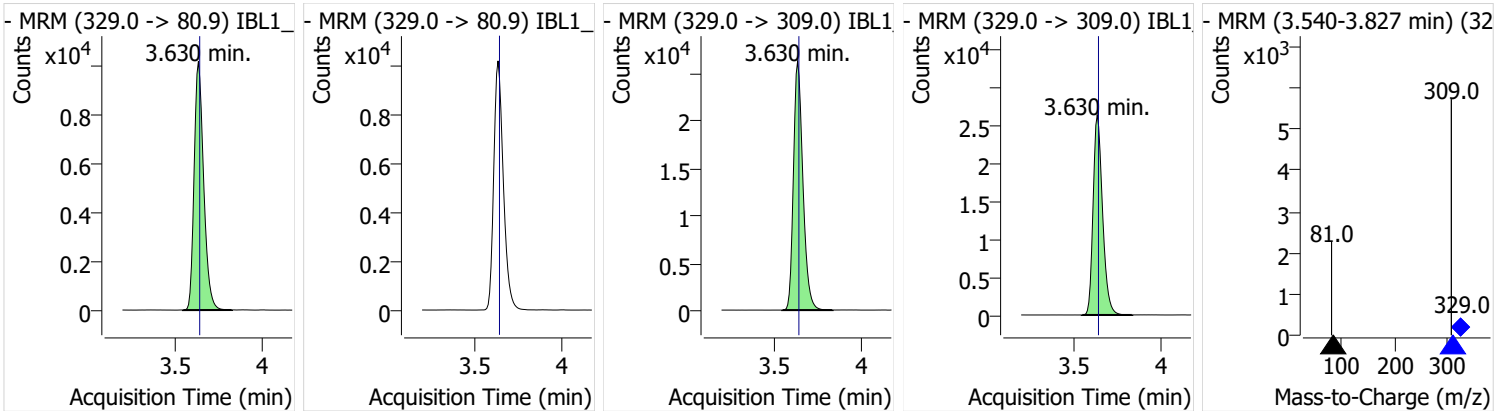
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFHxS	5.309	0			13C3-PFHxS - ISTD	5.292	54136	-	ng/ml	✔	1	AMS 05/09/24
398.9 -> 99.0				*								
PFMBA	3.271	0			13C5-PFPeA - ISTD	2.970	409092	-	ng/ml	✔	1	AMS 05/09/24
PFMPA	2.283	0			13C5-PFPeA - ISTD	2.970	409092	-	ng/ml	✔	1	AMS 05/09/24
PFNA	5.714	0			13C9-PFNA - ISTD	5.713	146194	-	ng/ml	✔	1	AMS 05/09/24
463.0 -> 219.0				*								
PFNS	6.826	0			13C8-PFOS - ISTD	6.354	42041	-	ng/ml	✔	1	AMS 05/09/24
549.0 -> 98.8				*								
PFOA	5.190	0			13C8-PFOA - ISTD	5.189	242206	-	ng/ml	✔	1	AMS 05/09/24
413.0 -> 169.0				*								
PFOS	6.347	0			13C8-PFOS - ISTD	6.354	42041	-	ng/ml	✔	1	AMS 05/09/24
499.0 -> 99.0				*								
PFOSA	7.744	0			13C8-PFOSA - ISTD	7.760	75440	-	ng/ml	✔	1	AMS 05/09/24
497.9 -> 478.0				*								
PFPeA	2.995	0			13C5-PFPeA - ISTD	2.970	409092	-	ng/ml	✔	1	AMS 05/09/24
263.0 -> 69.0				*								
PFPeS	4.641	0			13C3-PFHxS - ISTD	5.292	54136	-	ng/ml	✔	1	AMS 05/09/24
349.0 -> 98.9				*								
PFTeDA	7.902	2183	205.94		13C2-PFTeDA - ISTD	7.902	102490	0.0265	ng/ml			
713.0 -> 168.9			73.94	7.6								
PFTrDA	7.499	1507	65.51		13C2-PFDoA - ISTD	7.078	113741	0.0188	ng/ml			
663.0 -> 168.9			67.33	18.1								
PFUnA	6.645	0			13C7-PFUnA - ISTD	6.653	113147	-	ng/ml	✔	1	AMS 05/09/24
563.0 -> 269.1				*								
TDCA	6.225	72	15.92					-	ng/ml			
499.0 -> 99.0			9.79	14.2								
13C2-8:2FTS	5.983	21422	7212.34		18O2-PFHxS	5.291	53211	6.1248	ng/ml			
529.0 -> 509.0			10081.41	264.5								
13C2-4:2FTS	3.630	39379	6335.46		18O2-PFHxS	5.291	53211	6.1841	ng/ml			
329.0 -> 309.0			31520.26	256.4								
13C2-6:2FTS	4.974	26289	6109.48		18O2-PFHxS	5.291	53211	6.1095	ng/ml			
429.0 -> 409.0			20577.21	332.6								
13C5-PFHxA	3.861	221347	34596.17		13C2-PFHxA	3.861	213886	2.5114	ng/ml			

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
318.0 -> 120.0			901.20	1.9								
13C6-PFDA	6.197	131590	10926.47		13C2-PFDA	6.197	126313	1.3203	ng/ml			
13C7-PFUnA	6.653	113147	14887.24		13C2-PFDA	6.197	126313	1.4023	ng/ml			
13C8-PFOA	5.189	242206	41535.12		13C4-PFOA	5.189	34466	2.5633	ng/ml			
13C8-PFOS	6.354	42041	4691.45		13C4-PFOS	6.355	46679	2.5052	ng/ml			
507.0 -> 99.0			10503.48	52.0								
13C8-PFOSA	7.760	75440	665817.40		13C4-PFOS	6.355	46679	2.5560	ng/ml			
13C9-PFNA	5.713	146194	21776.25		13C5-PFNA	5.713	167493	1.2799	ng/ml			
13C5-PFPeA	2.970	409092	15168.46		13C2-PFHxA	3.861	213886	5.1790	ng/ml			
13C2-PFDoA	7.078	113741	18997.10		13C2-PFDA	6.197	126313	1.3658	ng/ml			
13C4-PFHpA	4.590	258946	19627.93		13C2-PFHxA	3.861	213886	2.6265	ng/ml			
13C4-PFBA	1.765	664864	133471.64		13C3-PFBA	1.768	302419	10.1259	ng/ml			
13C3-PFHxS	5.292	54136	14427.95		18O2-PFHxS	5.291	53211	2.4912	ng/ml			
402.0 -> 99.0			6872.05	52.5								
13C3-PFBS	3.798	77762	16263.50		18O2-PFHxS	5.291	53211	2.7039	ng/ml			
301.9 -> 98.9			6277.18	35.3								
13C3-HFPODA	4.136	263332	19878.09		13C2-PFHxA	3.861	213886	10.6814	ng/ml			
287.0 -> 185.0			10348.15	43.6								
13C2-PFTeDA	7.902	102490	29741.53		13C2-PFDA	6.197	126313	1.4293	ng/ml			
D9-NEtFOSE	9.403	352464	52606.24		13C4-PFOS	6.355	46679	28.7168	ng/ml			
D3-NMeFOSA	9.210	23957	16278.24		13C4-PFOS	6.355	46679	2.5307	ng/ml			
D3-NMeFOSAA	6.260	160058	18524.54		13C4-PFOS	6.355	46679	5.2930	ng/ml			
D5-NEtFOSA	9.555	26014	11387.33		13C4-PFOS	6.355	46679	2.6343	ng/ml			
D5-NEtFOSAA	6.463	83814	11847.51		13C4-PFOS	6.355	46679	5.4775	ng/ml			
D7-NMeFOSE	9.065	319074	196716.83		13C4-PFOS	6.355	46679	27.8170	ng/ml			

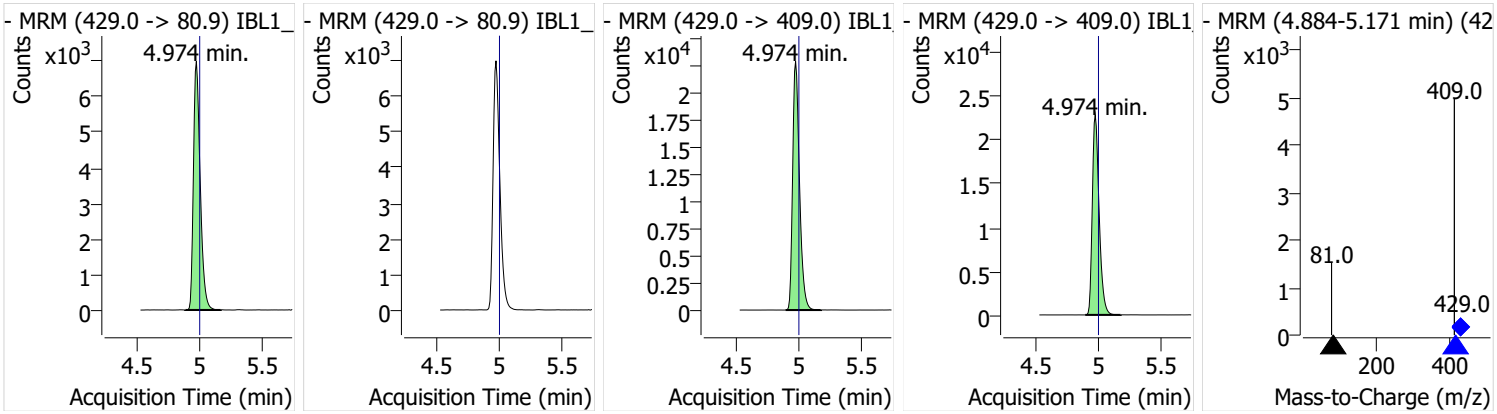
11Cl-PF3OUdS



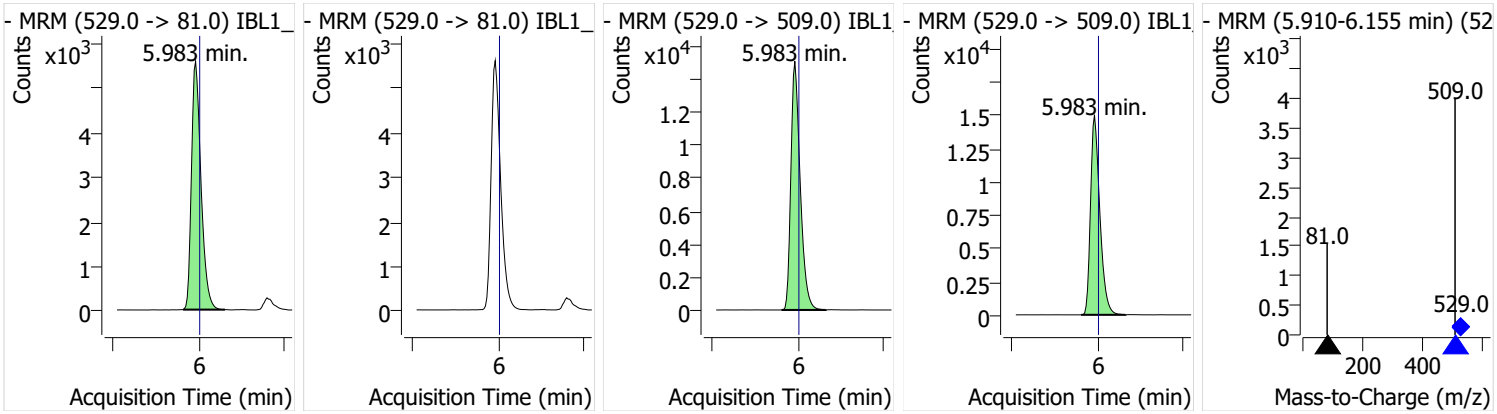
13C2-4:2FTS - ISTD



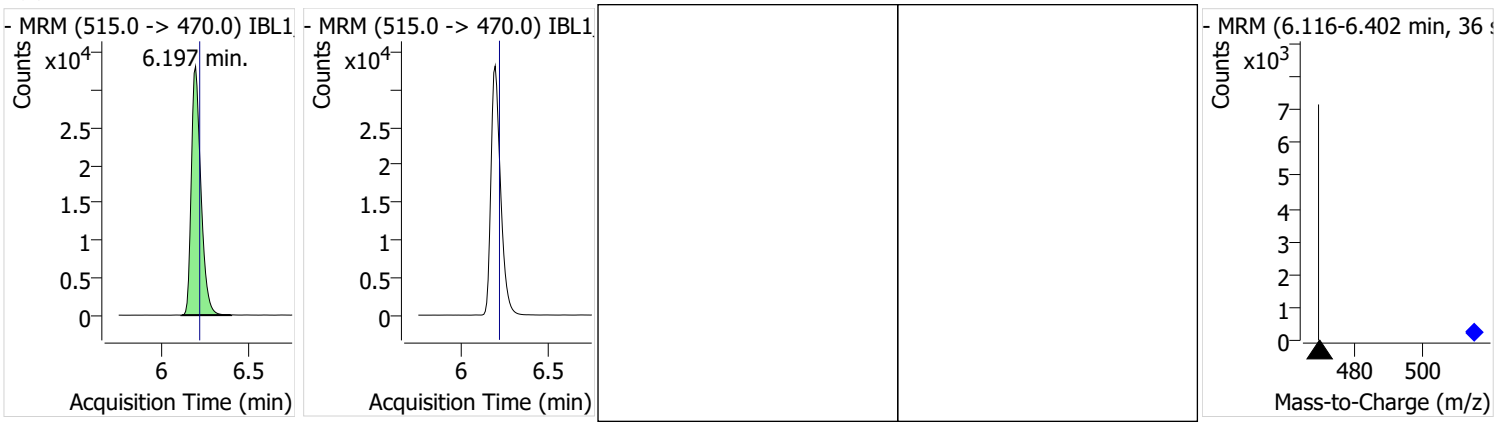
13C2-6:2FTS - ISTD



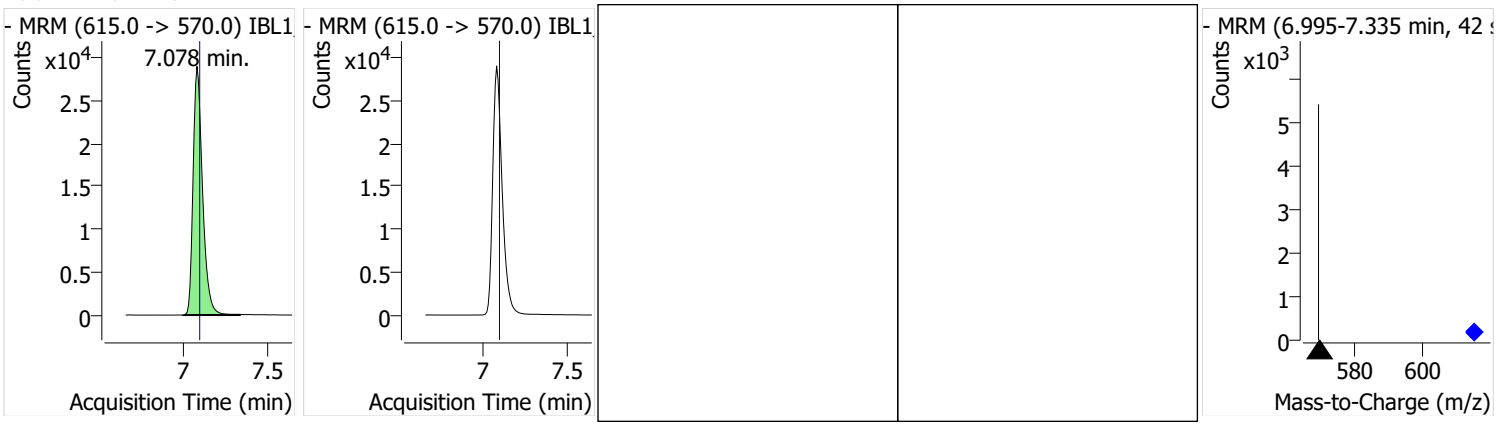
13C2-8:2FTS - ISTD



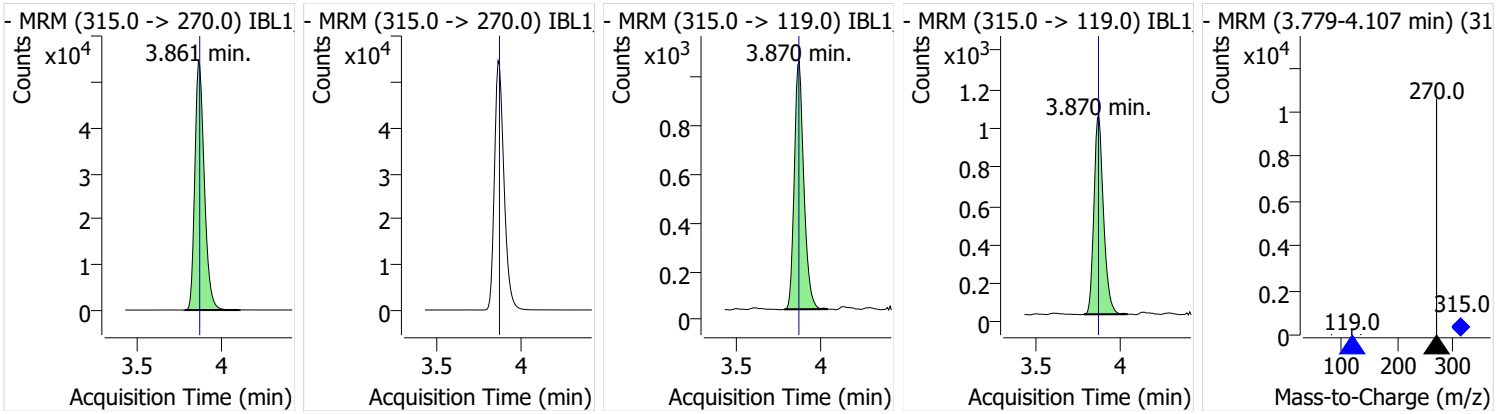
13C2-PFDA



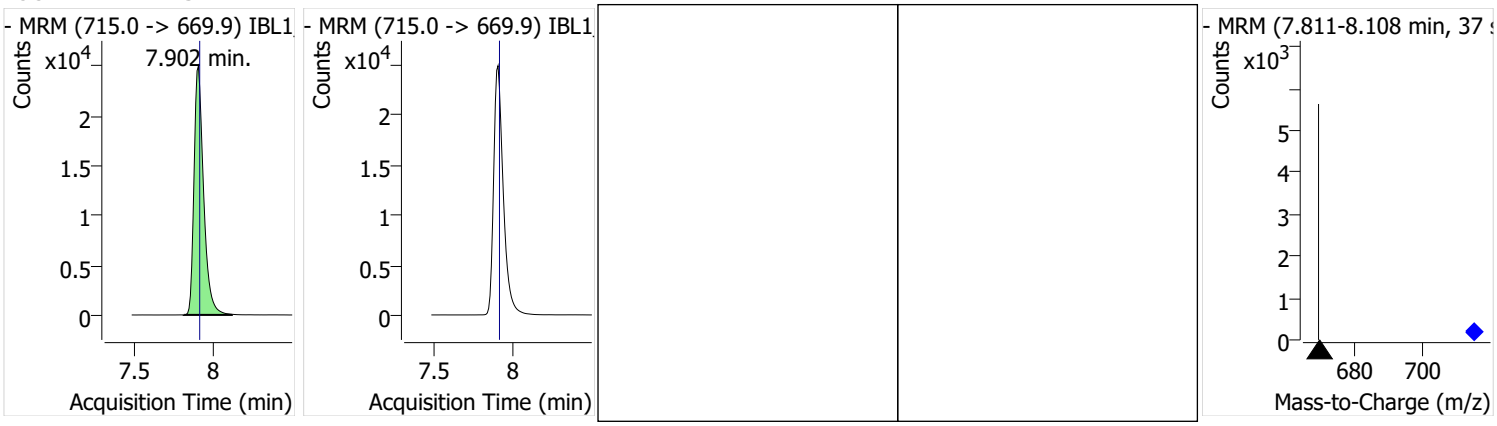
13C2-PFDoA - ISTD



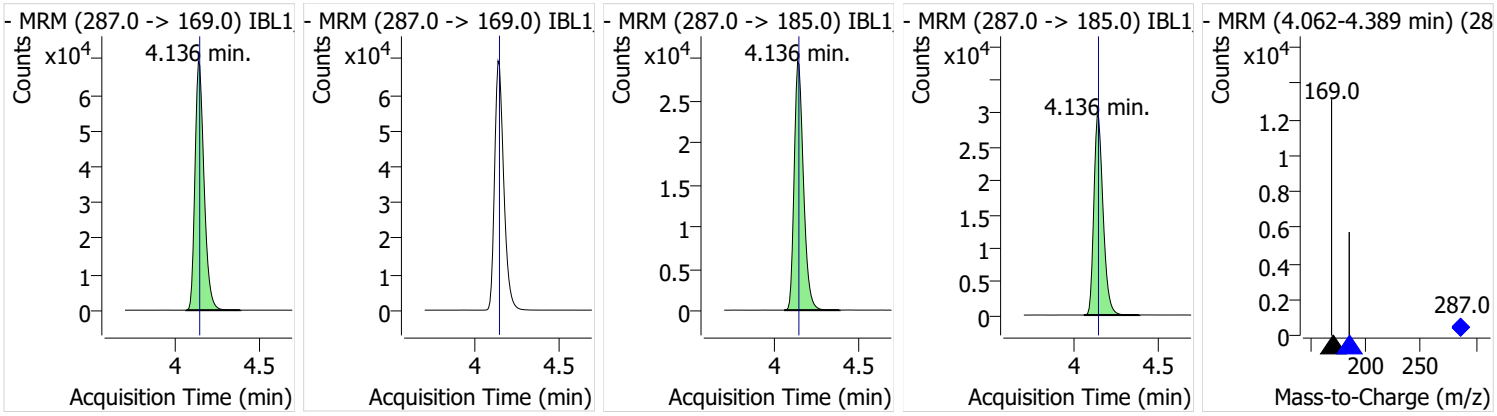
13C2-PFHxA



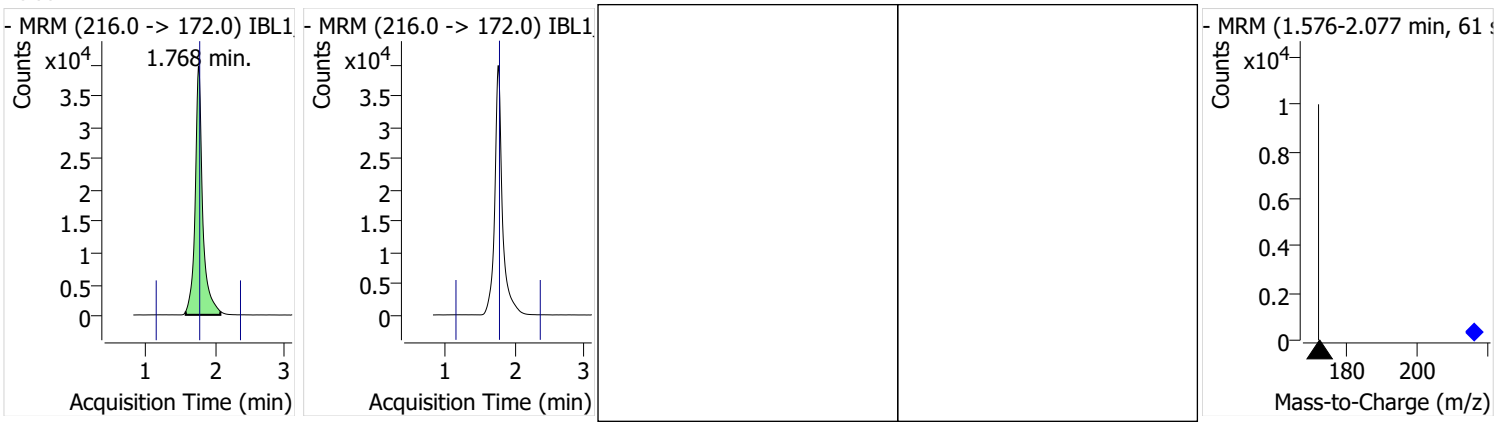
13C2-PFTeDA - ISTD



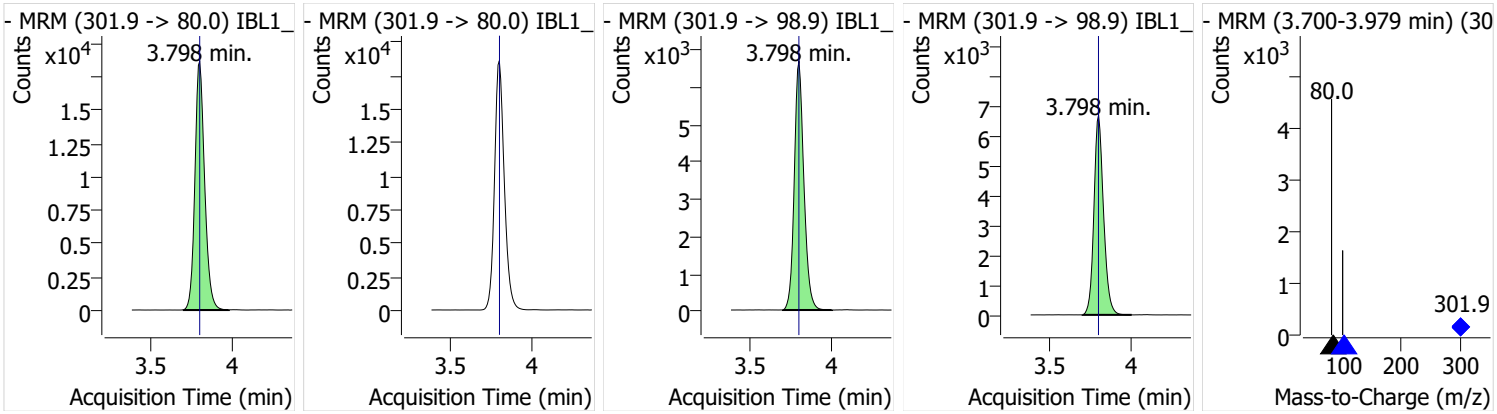
13C3-HFPODA - ISTD



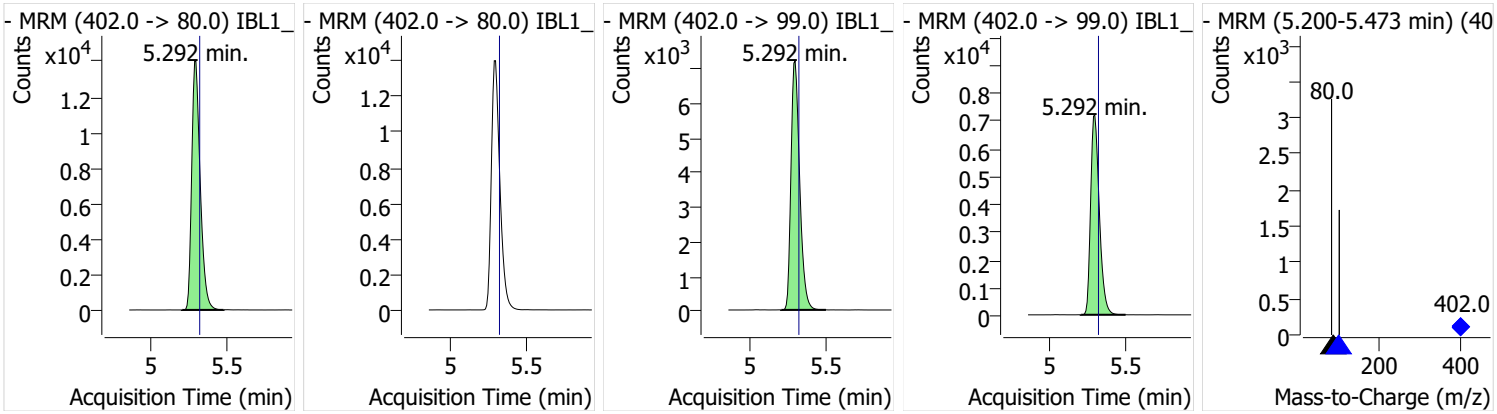
13C3-PFBA



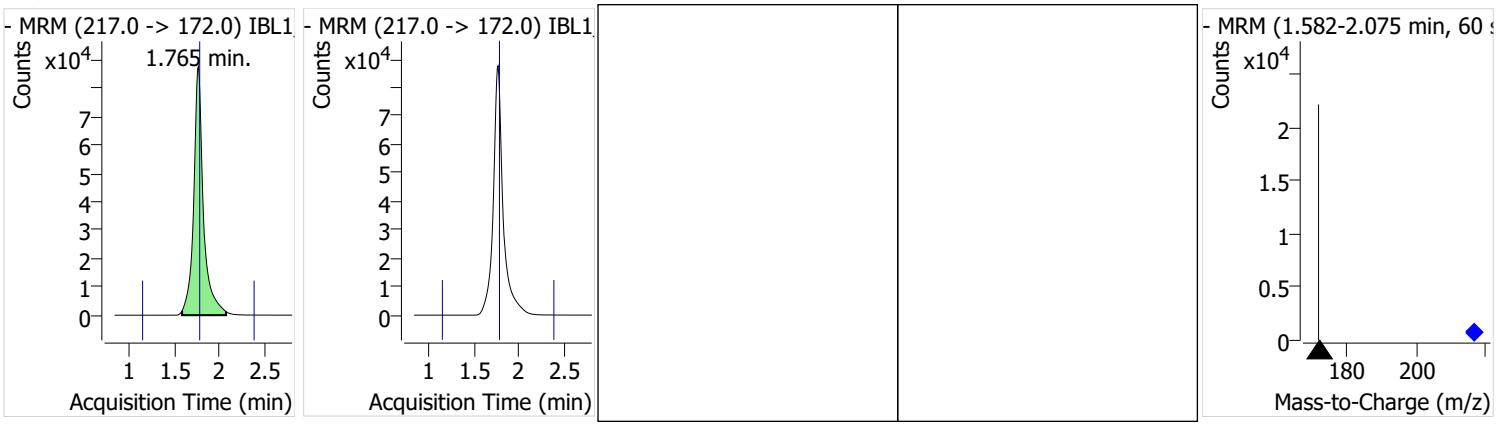
13C3-PFBS - ISTD



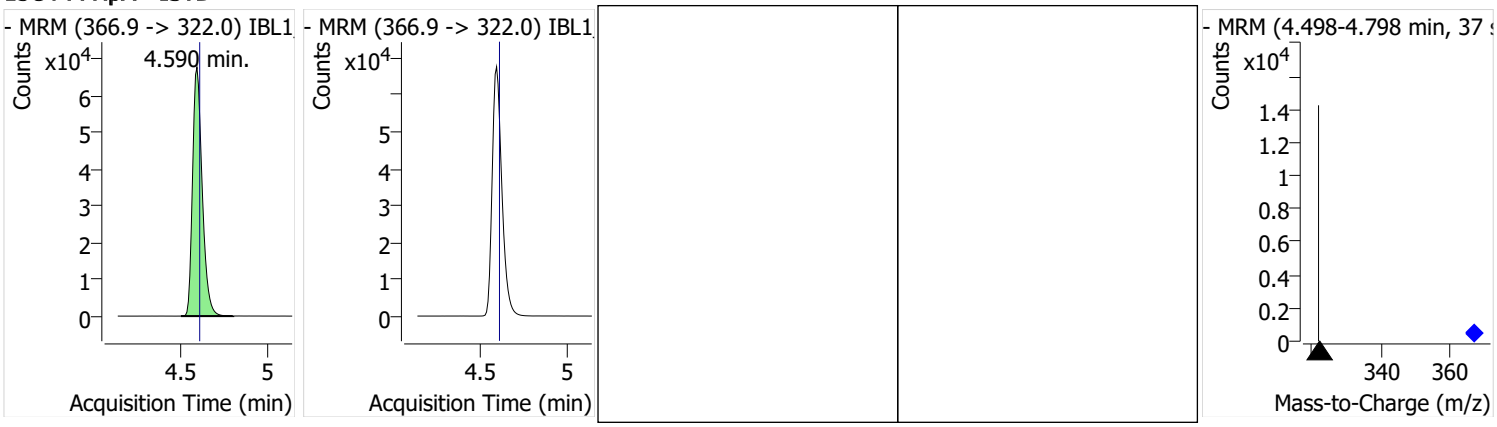
13C3-PFHxS - ISTD



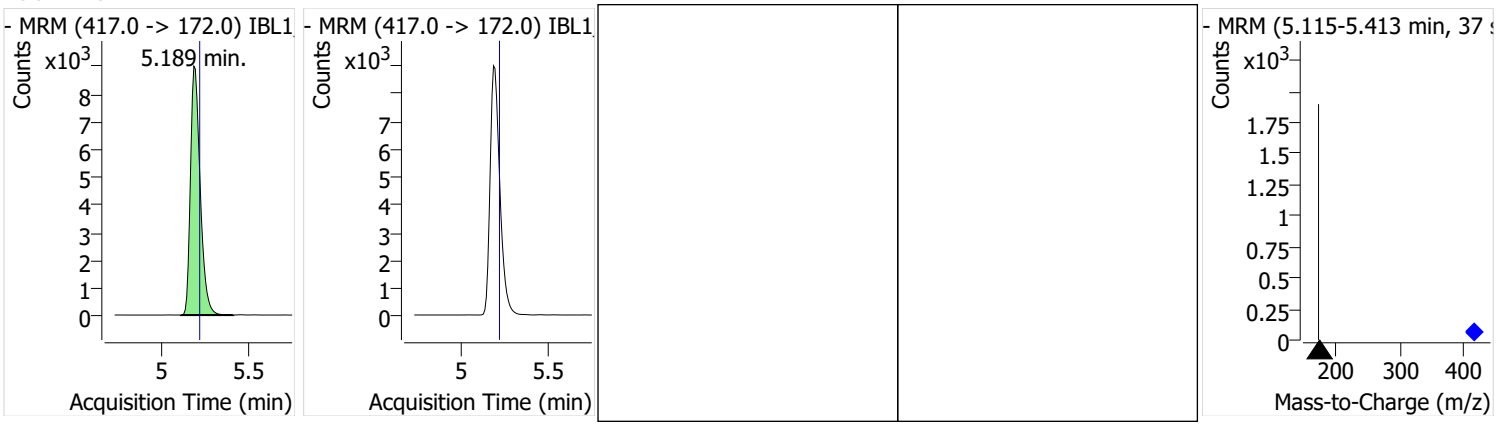
13C4-PFBA - ISTD



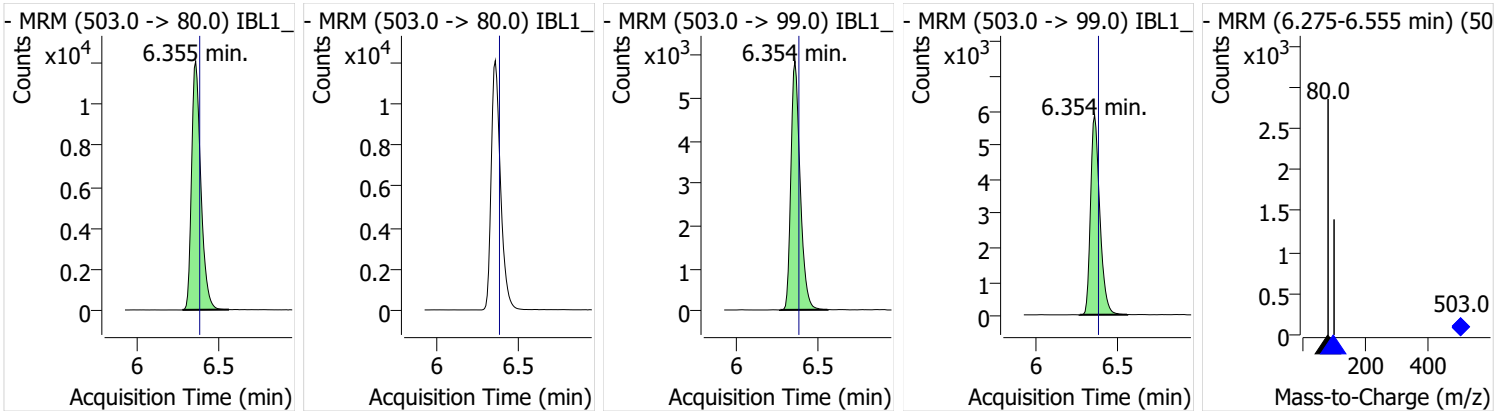
13C4-PFHpA - ISTD



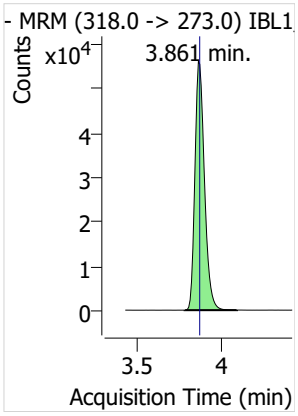
13C4-PFOA

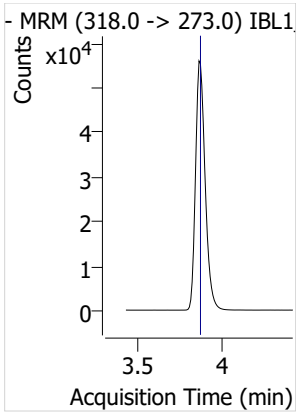


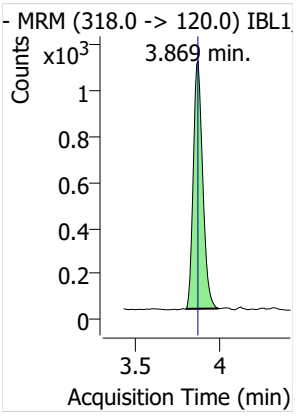
13C4-PFOS

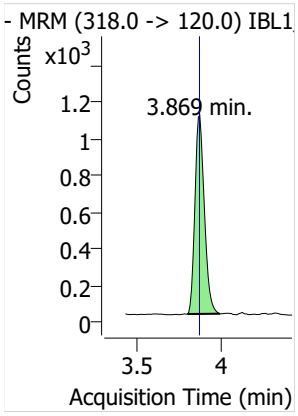


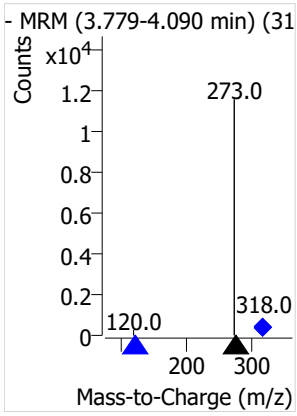
13C5-PFHxA - ISTD



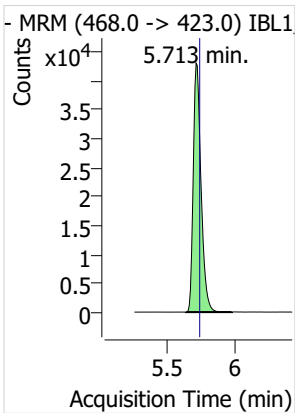


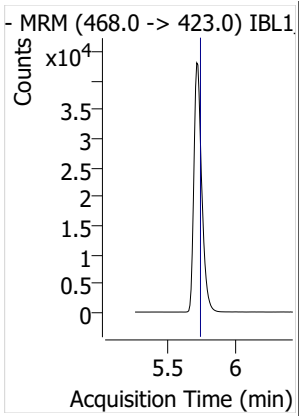


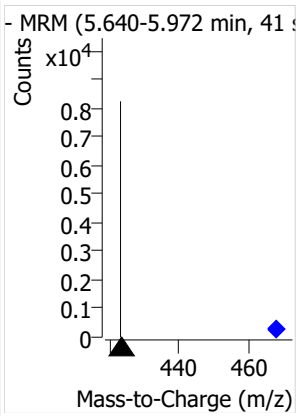




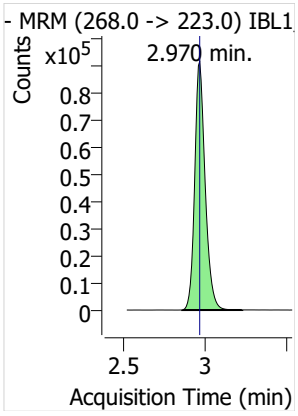
13C5-PFNA

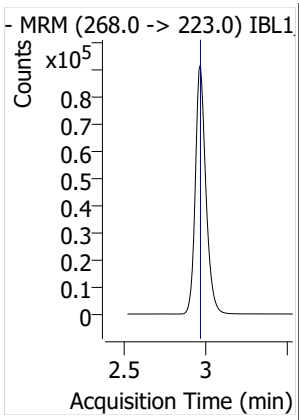


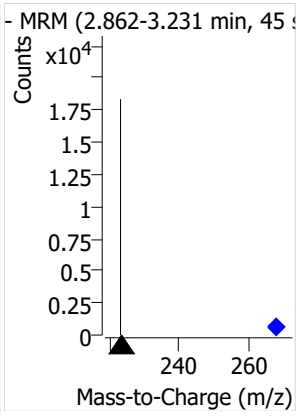




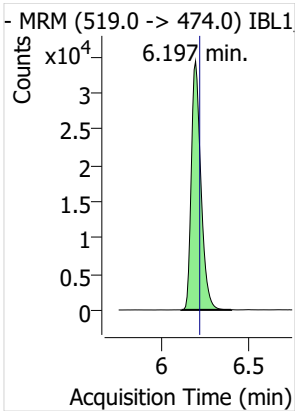
13C5-PFPeA - ISTD

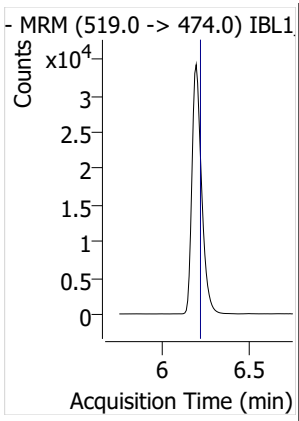


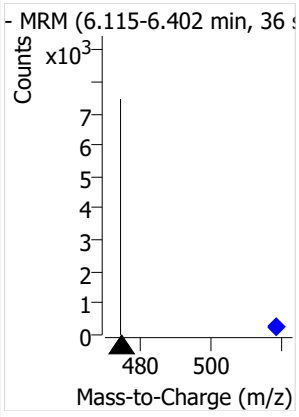




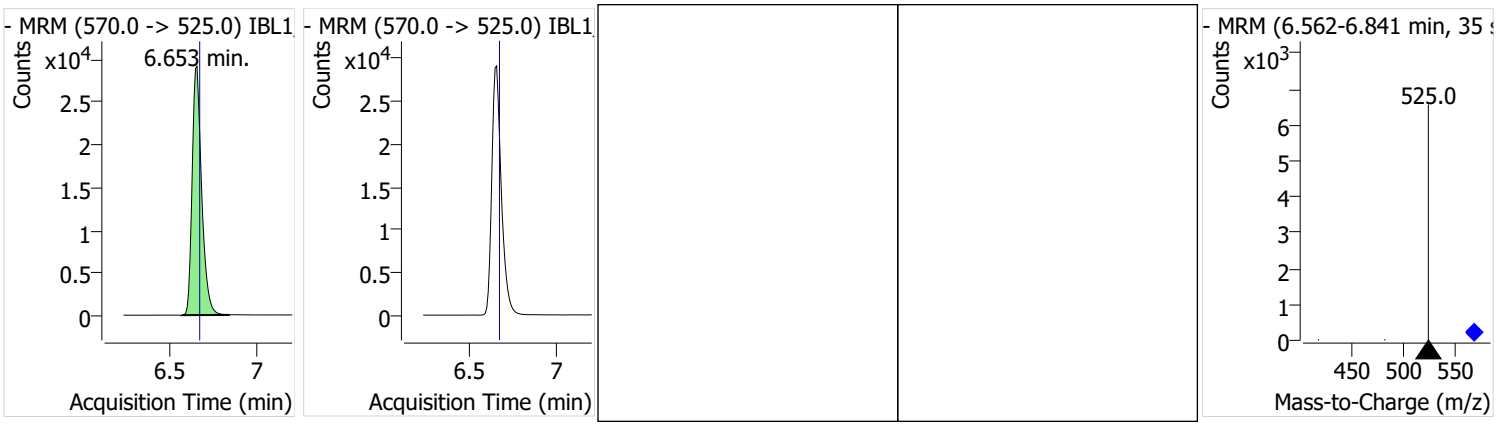
13C6-PFDA - ISTD



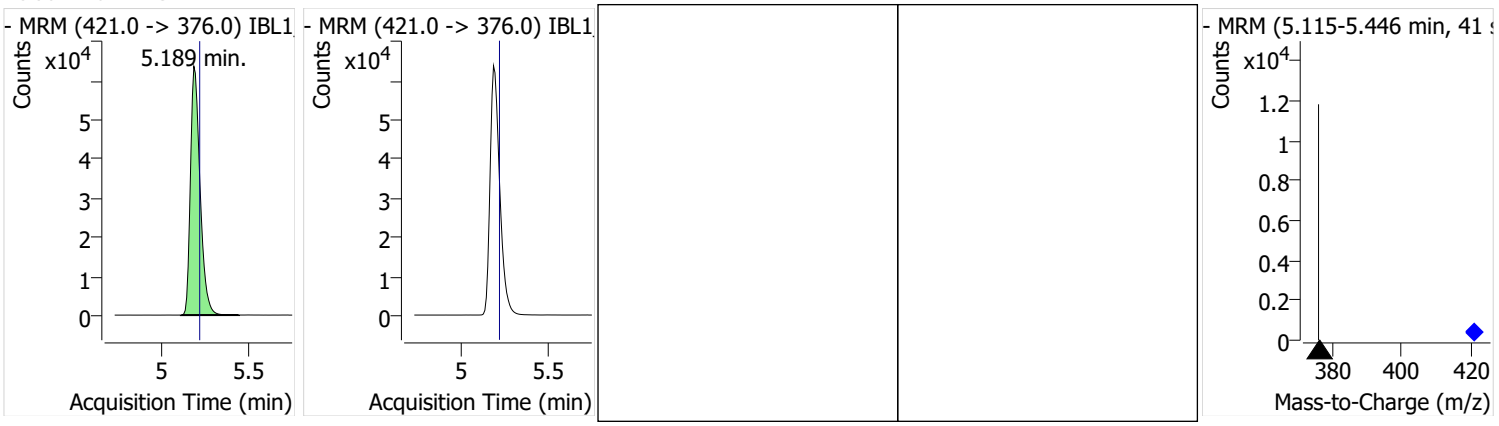




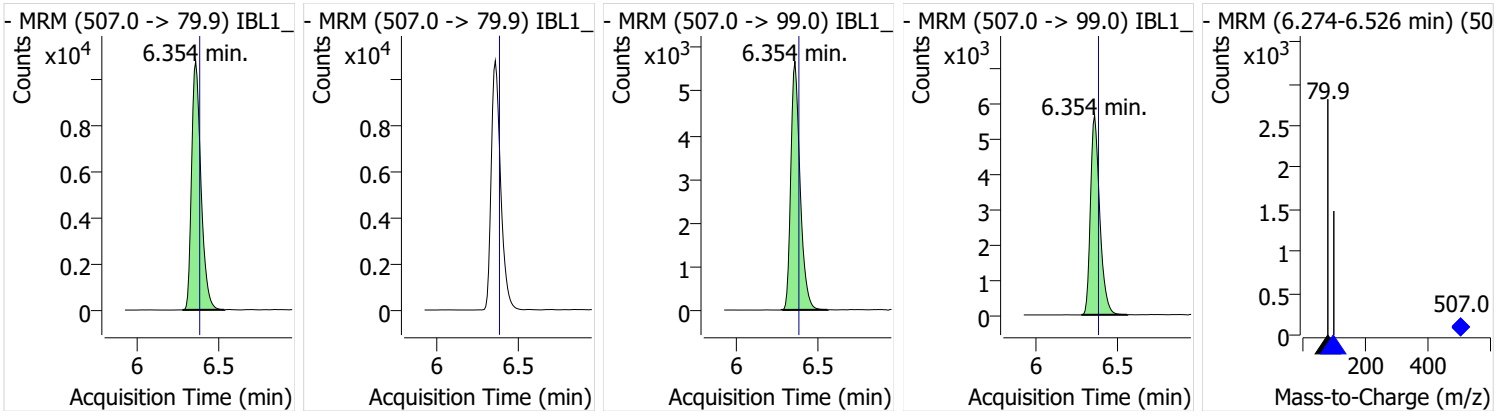
13C7-PFUnA - ISTD



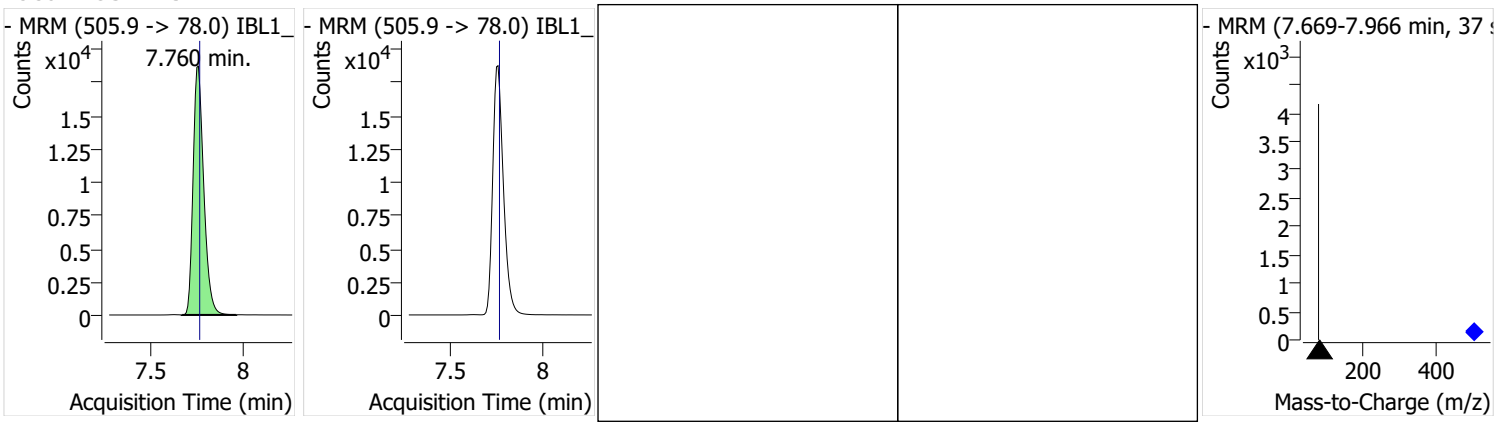
13C8-PFOA - ISTD



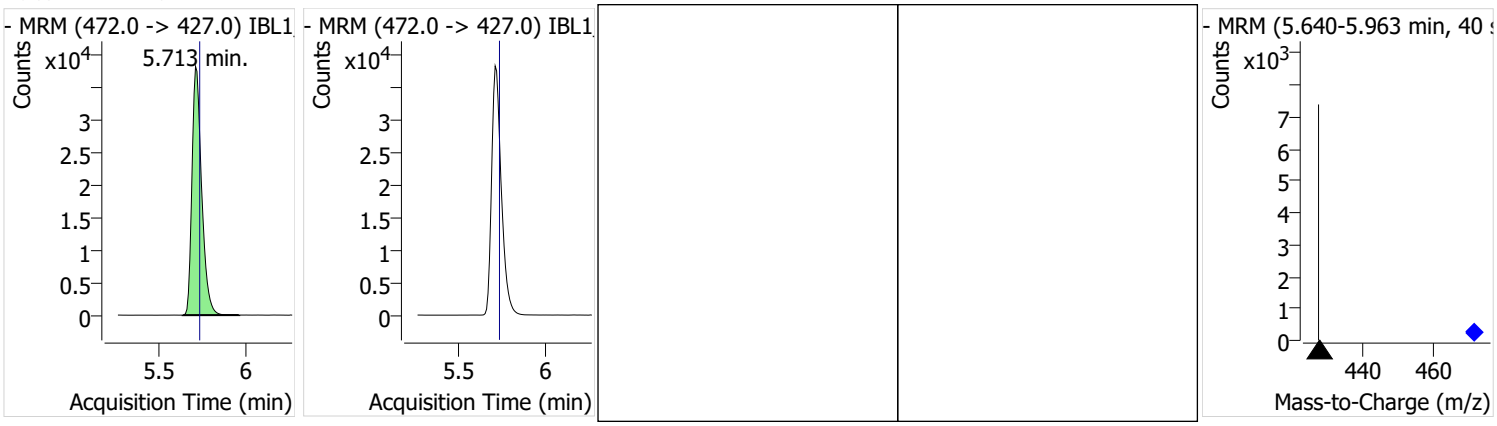
13C8-PFOS - ISTD



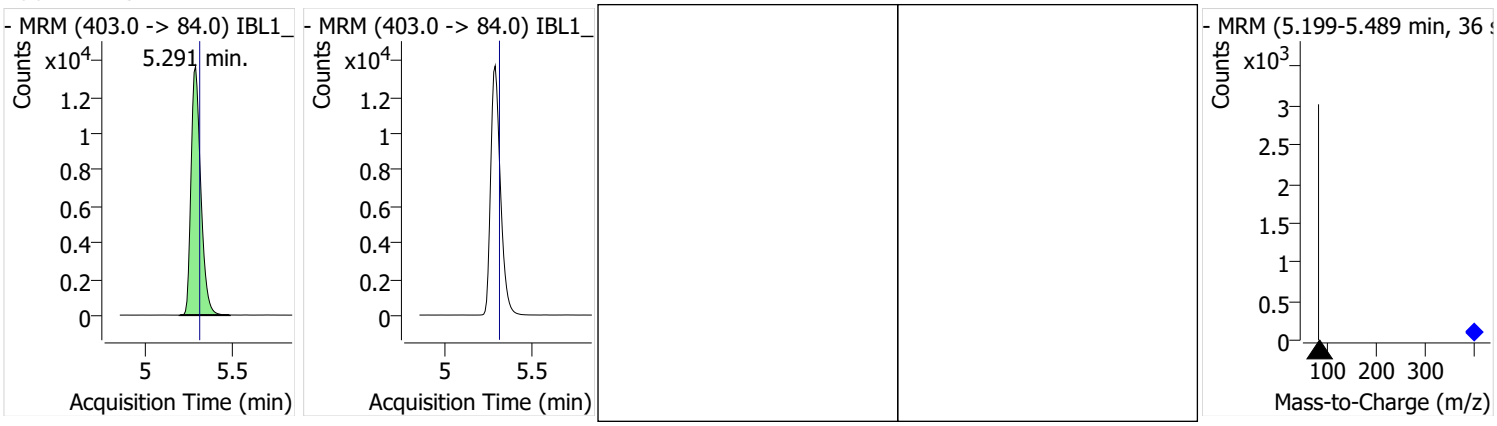
13C8-PFOSA - ISTD



13C9-PFNA - ISTD



18O2-PFHxS



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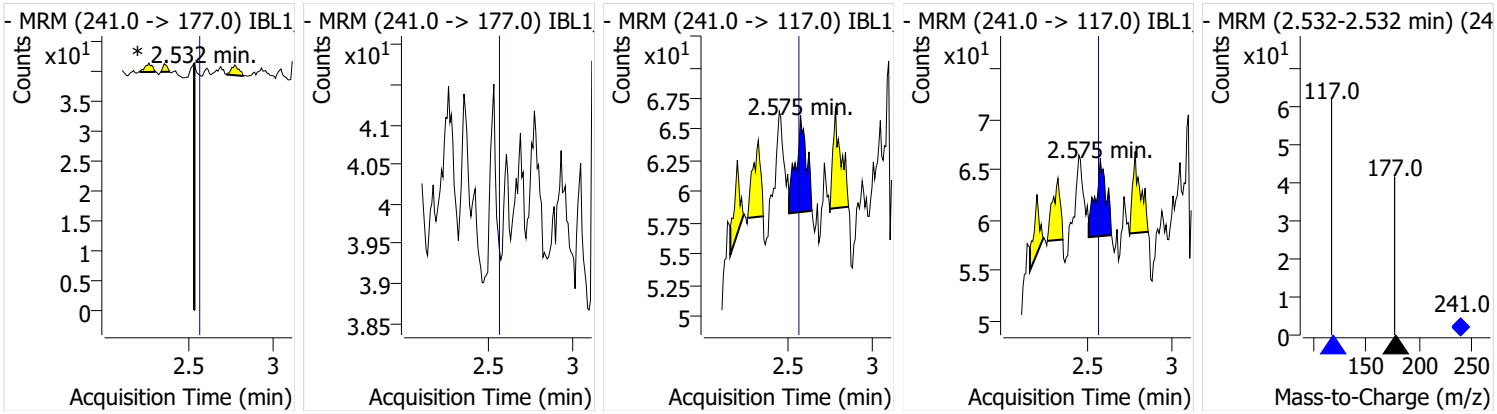
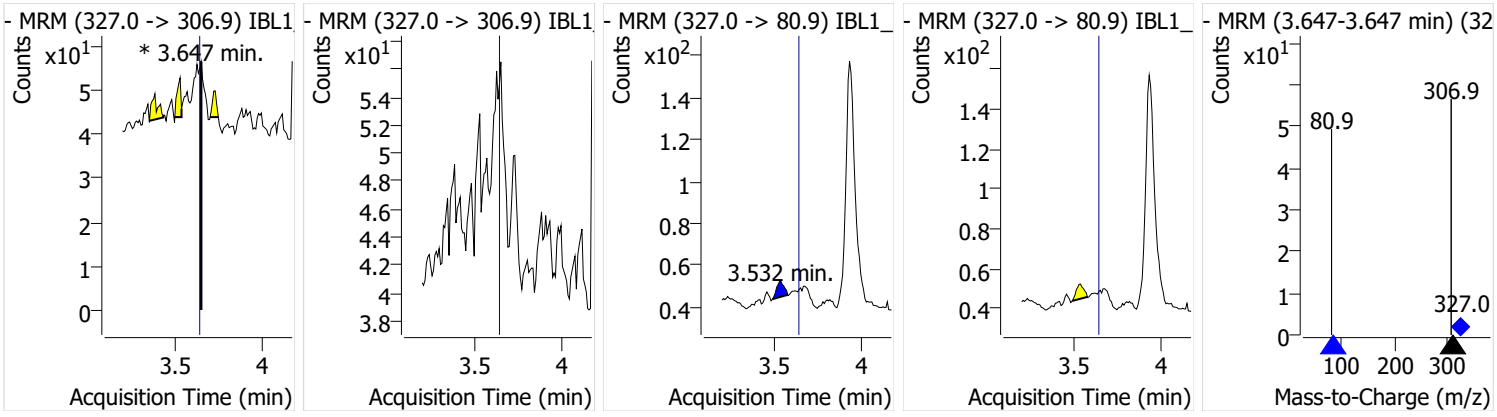


4:2FTS



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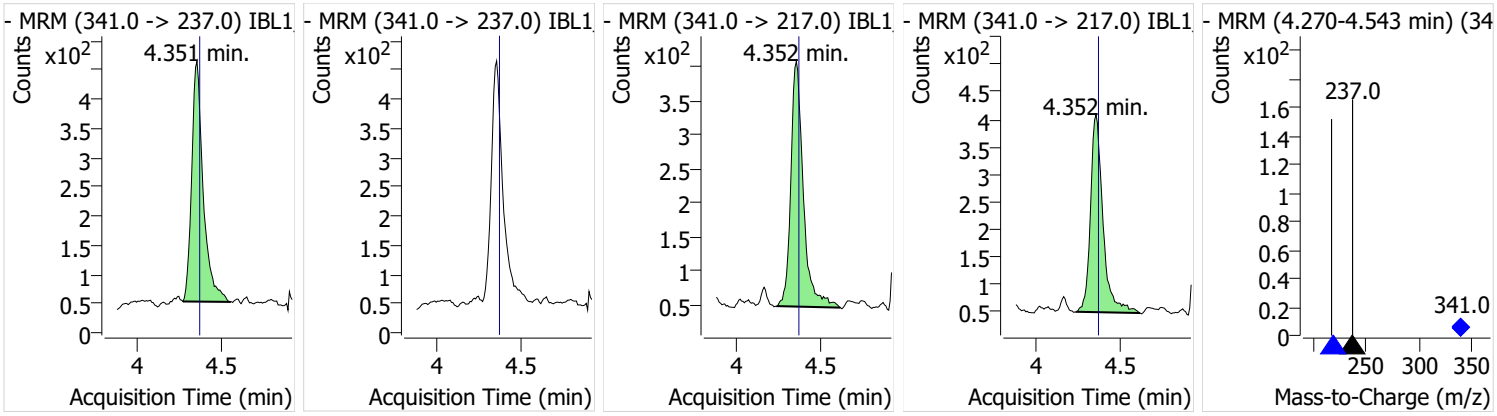

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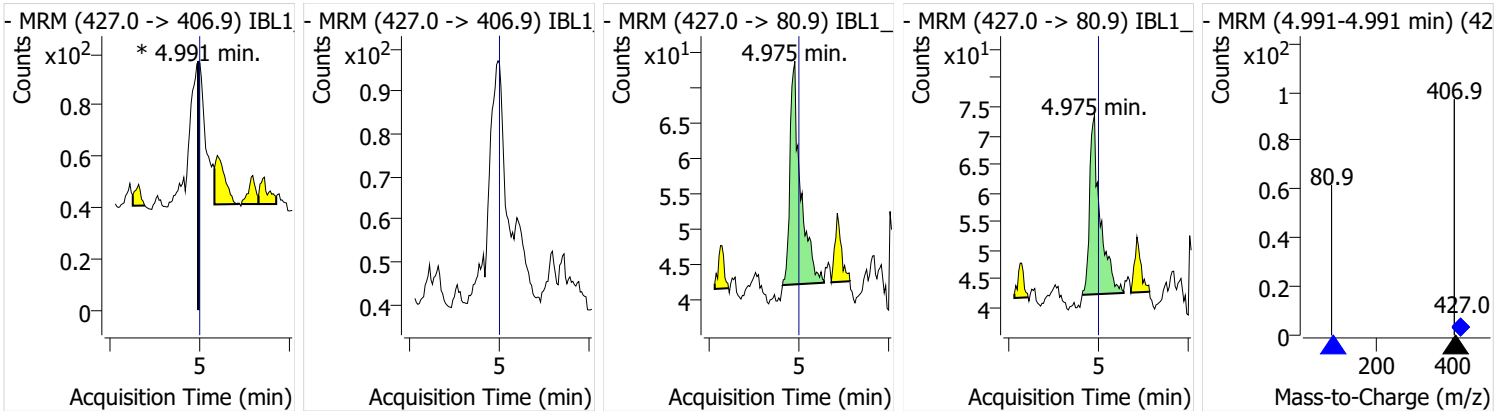

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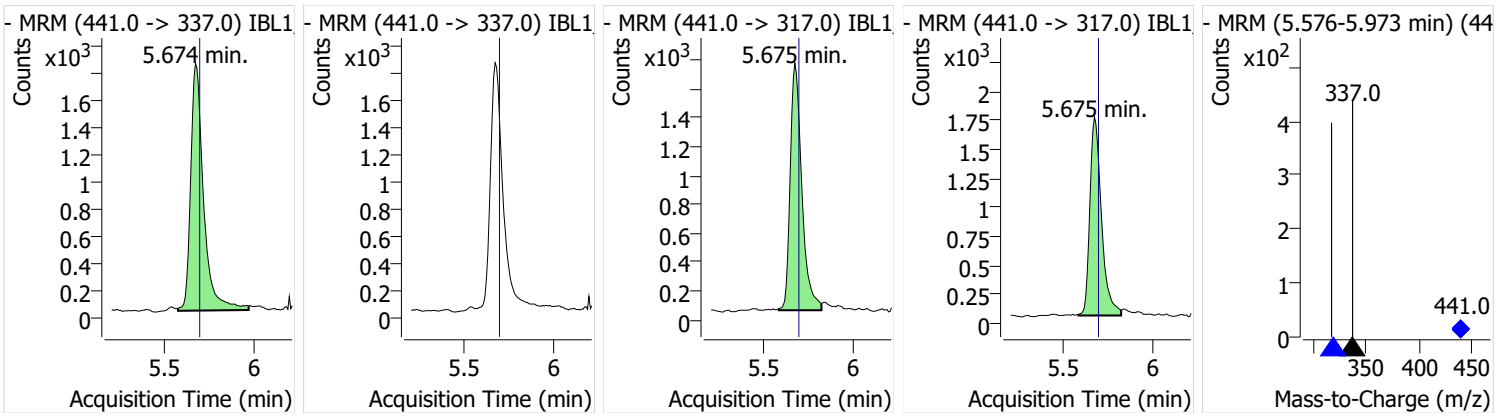

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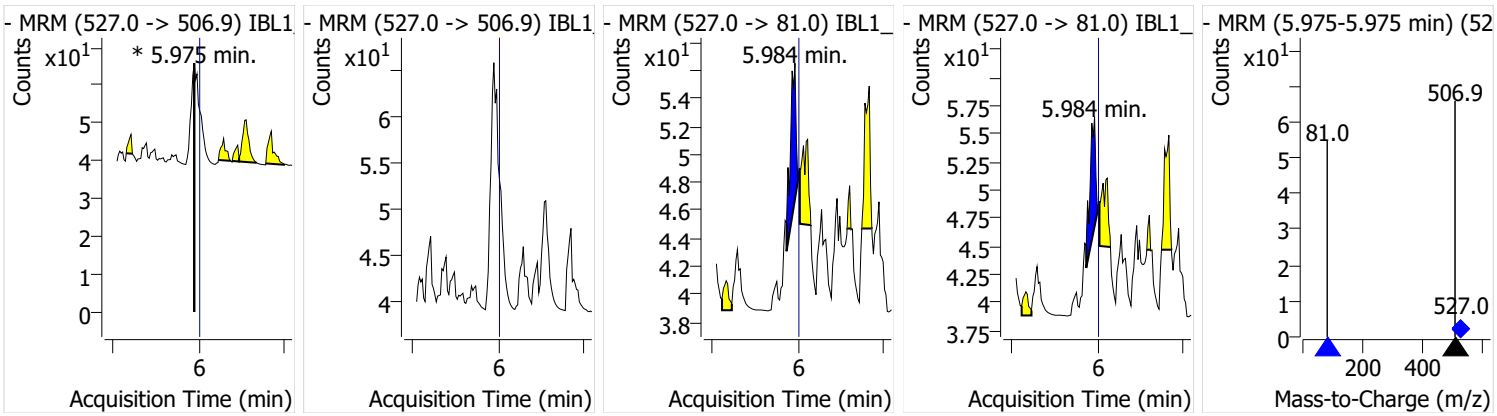
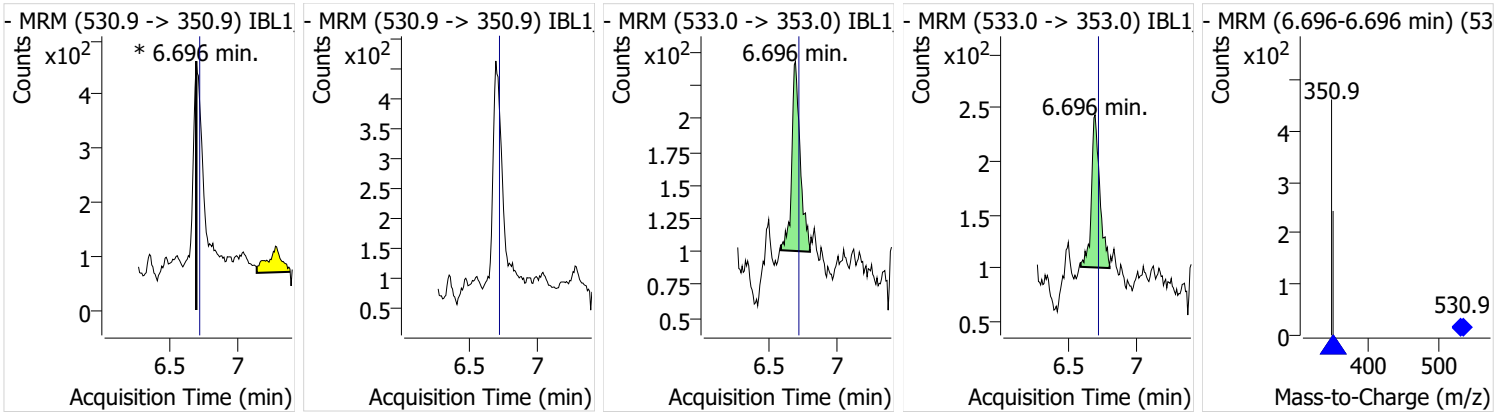
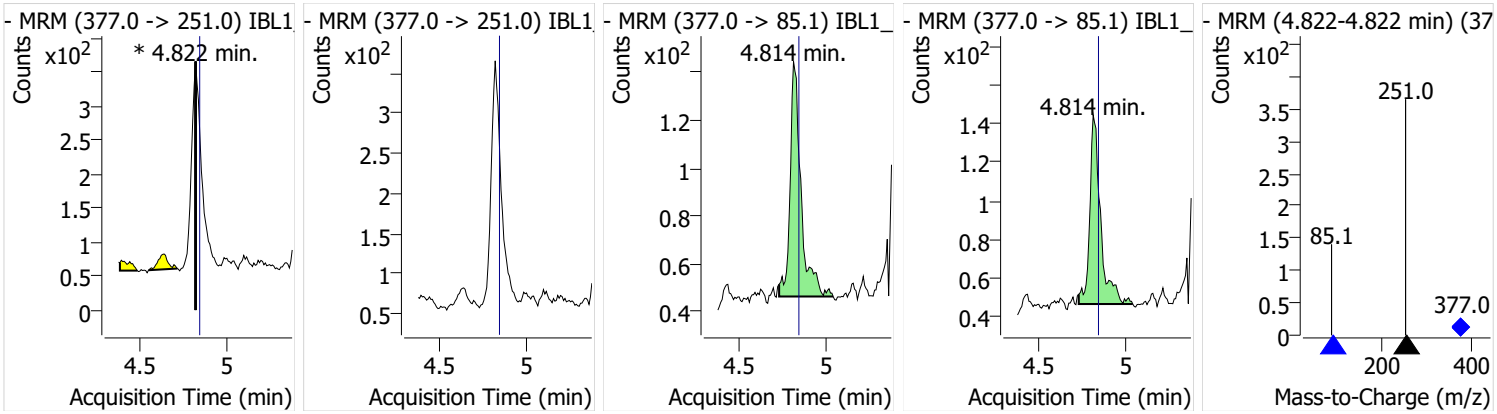


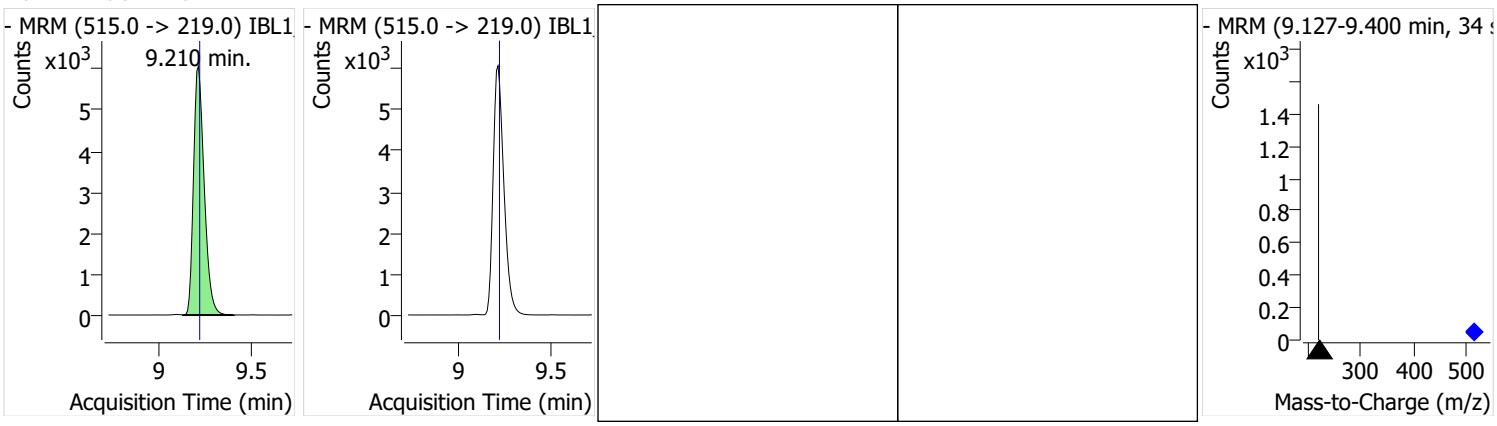
9Cl-PF3ONS



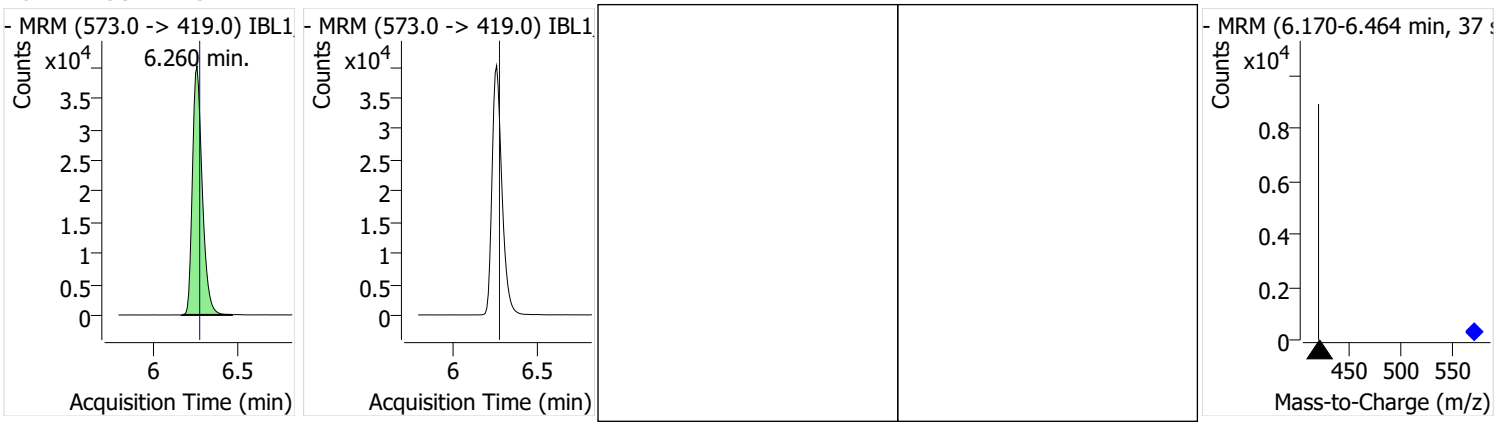
ADONA



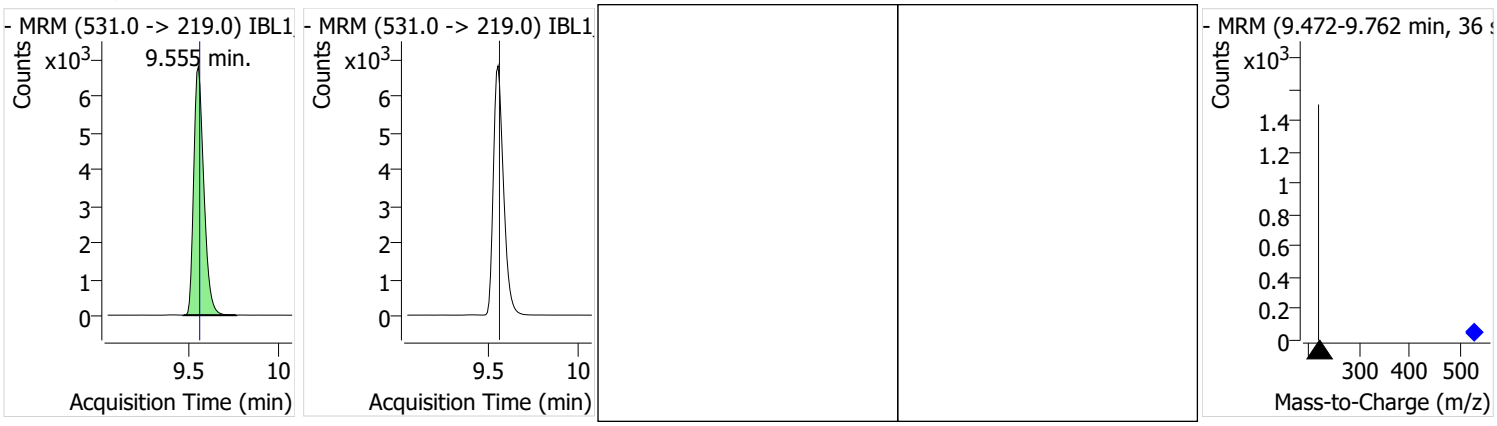
D3-NMeFOSA - ISTD



D3-NMeFOSAA - ISTD

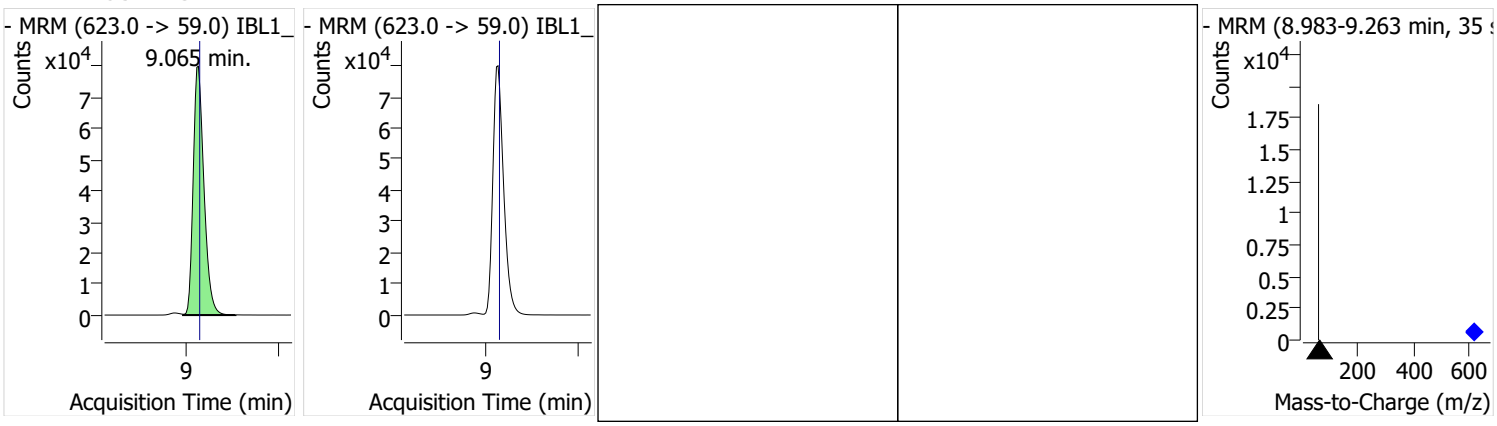


D5-NEtFOSA - ISTD

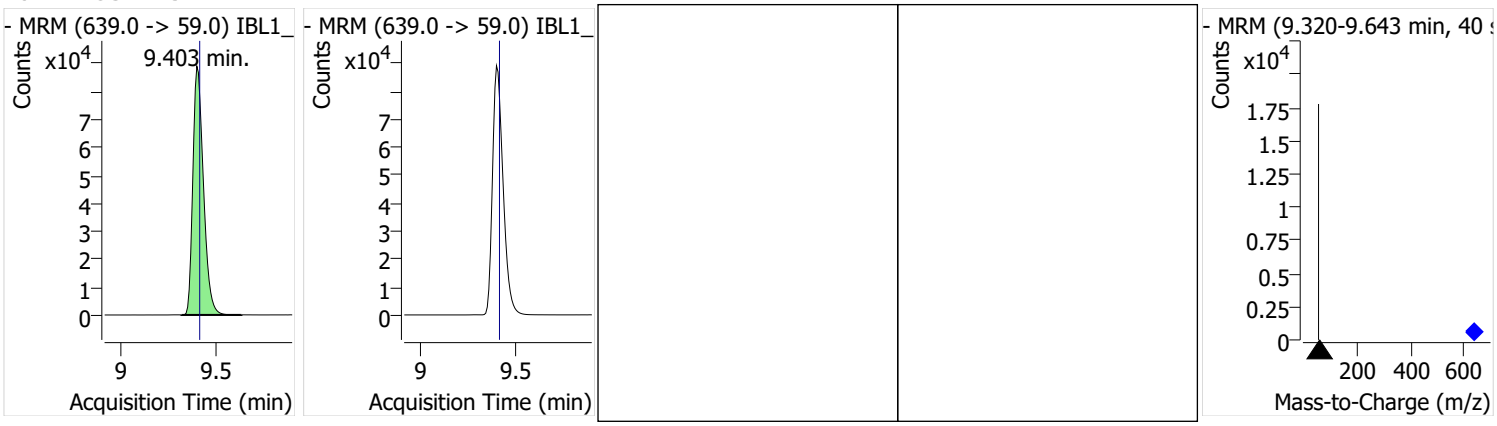


D5-NEtFOSAA - ISTD

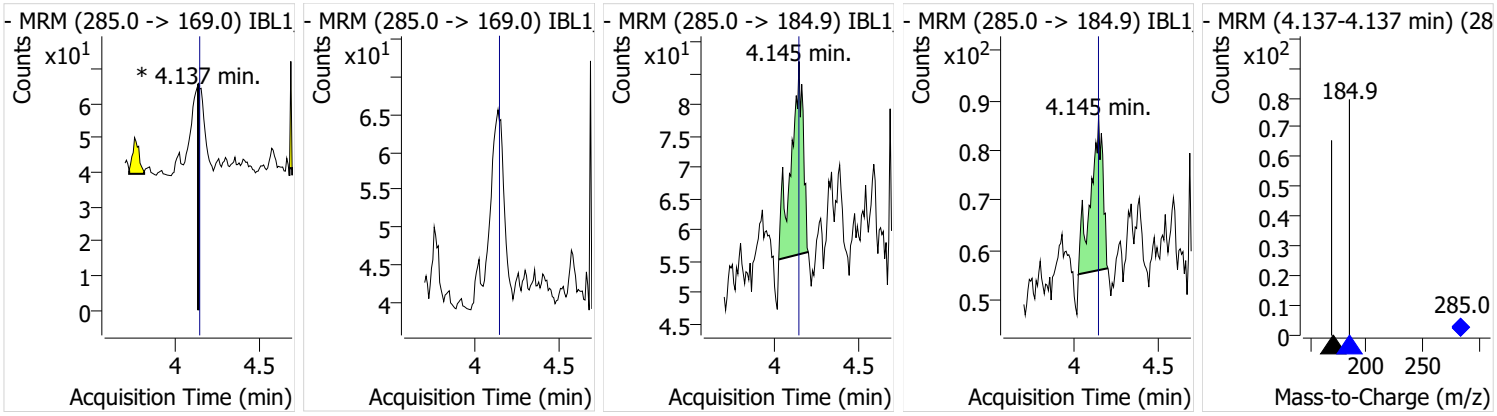
D7-NMeFOSE - ISTD



D9-NEtFOSE - ISTD



HFPO-DA



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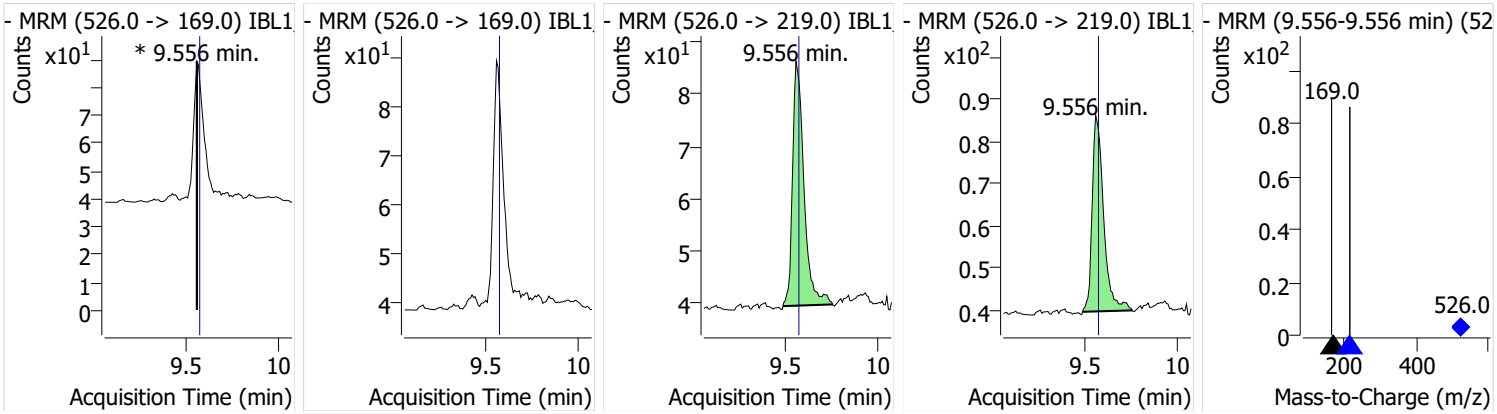

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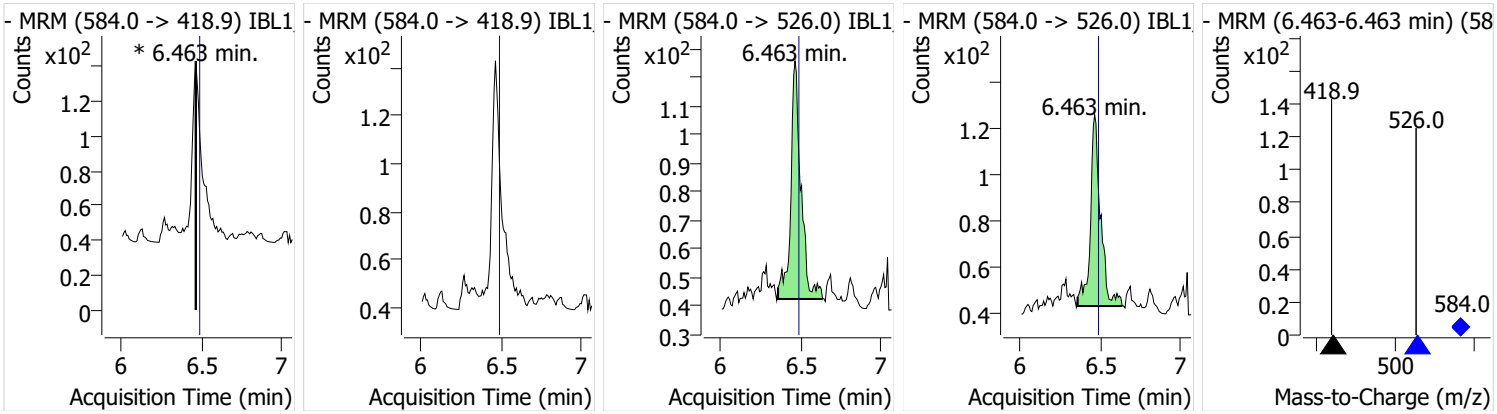

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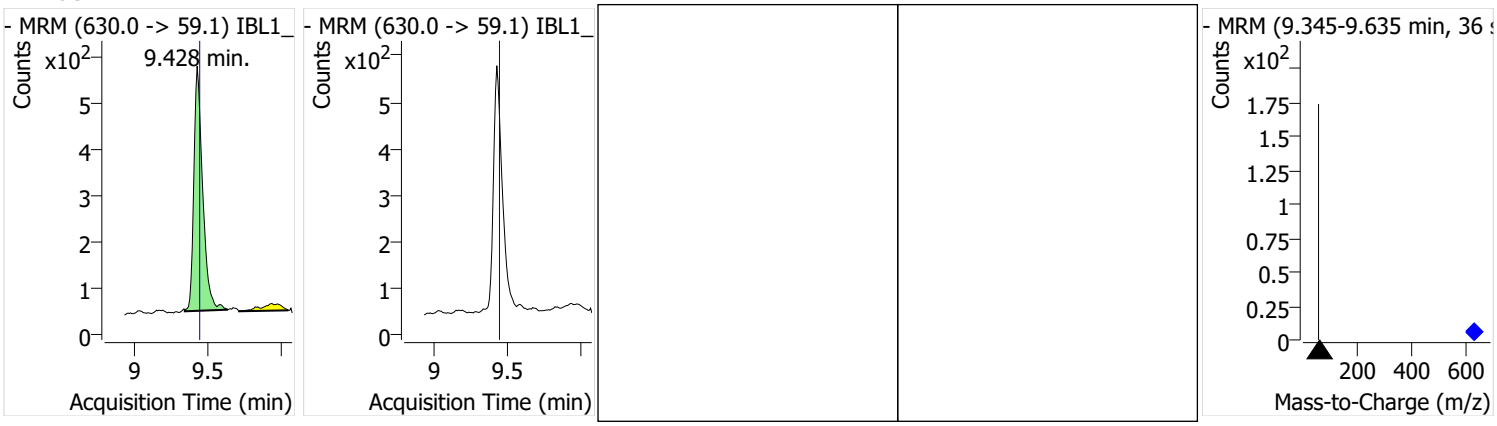

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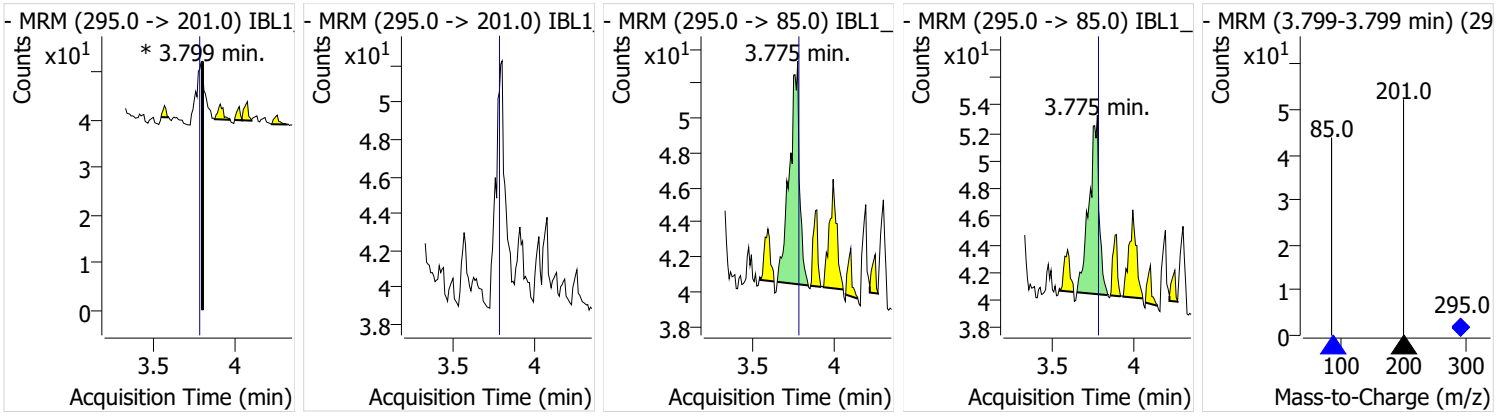
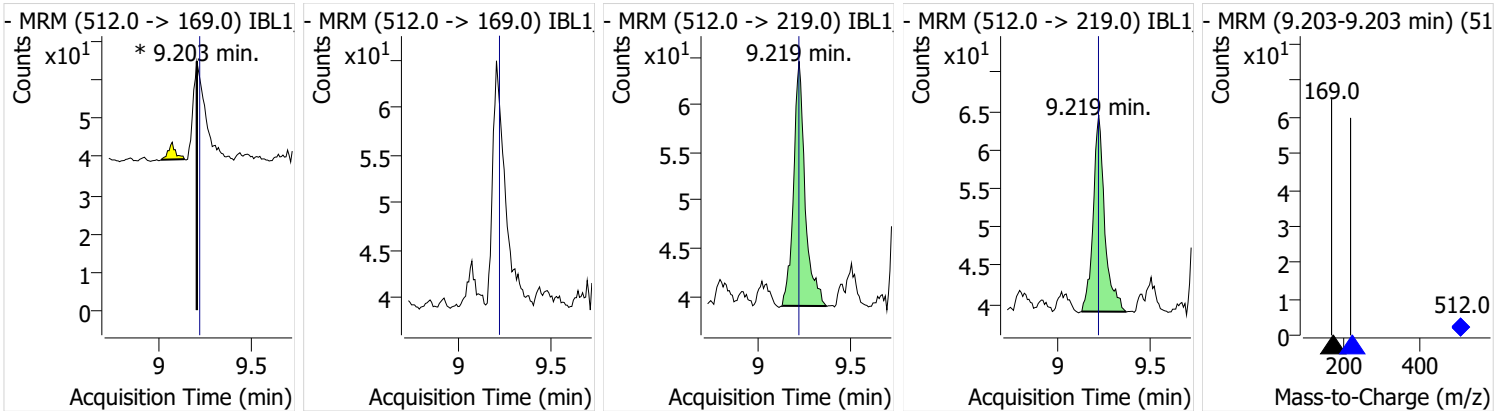


NMeFOSA



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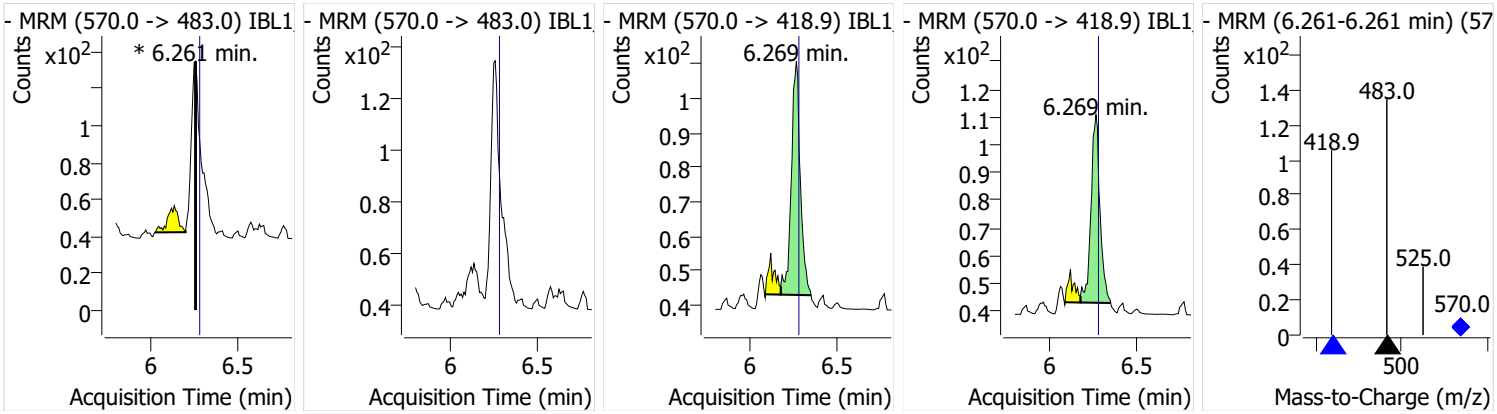

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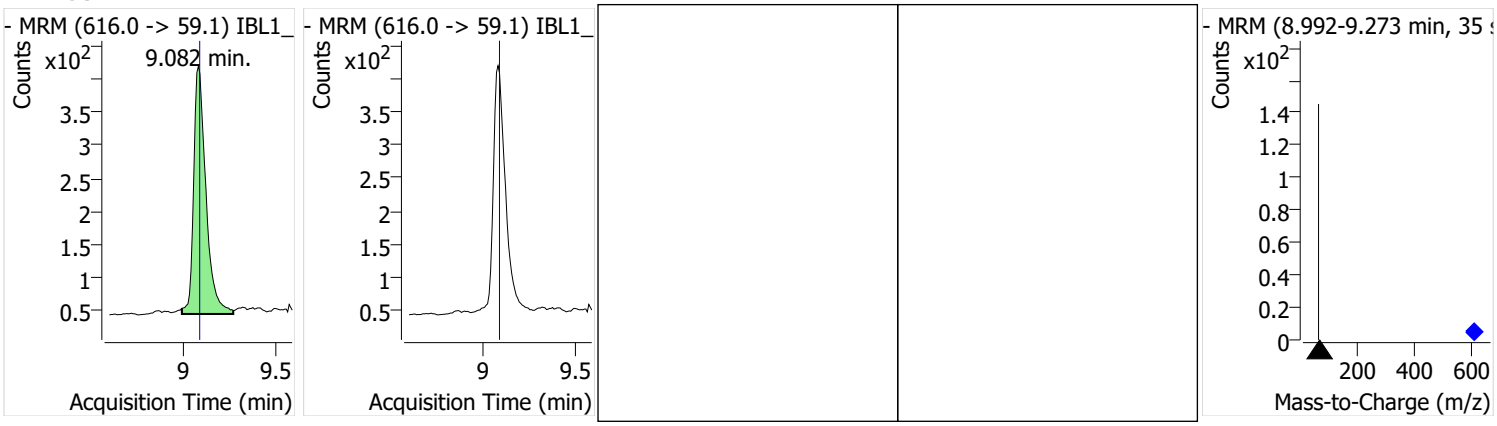
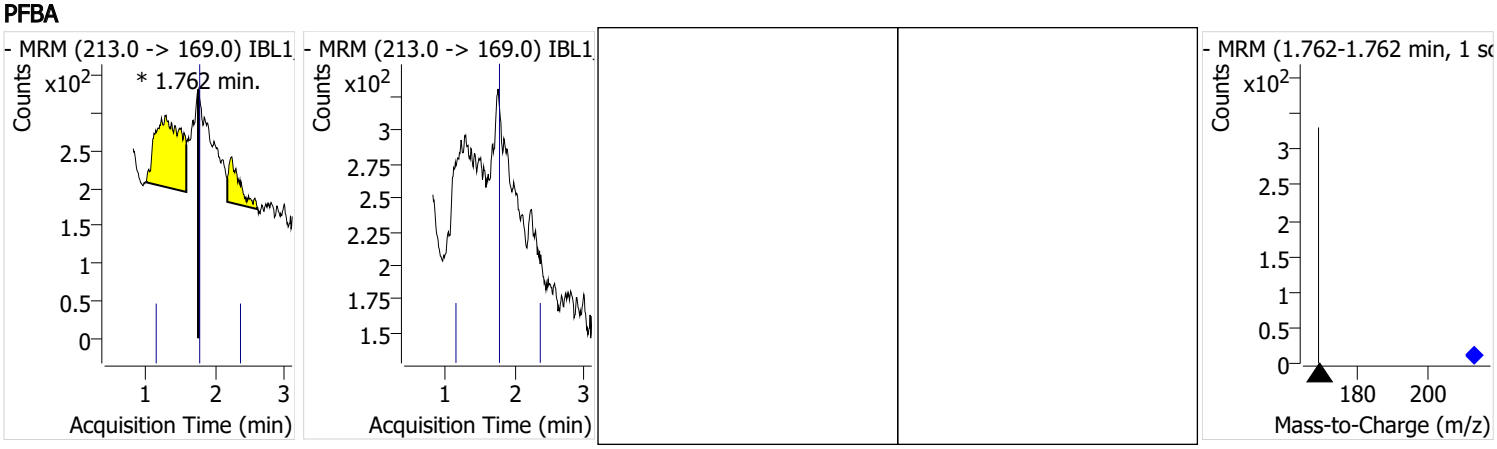


PFBA



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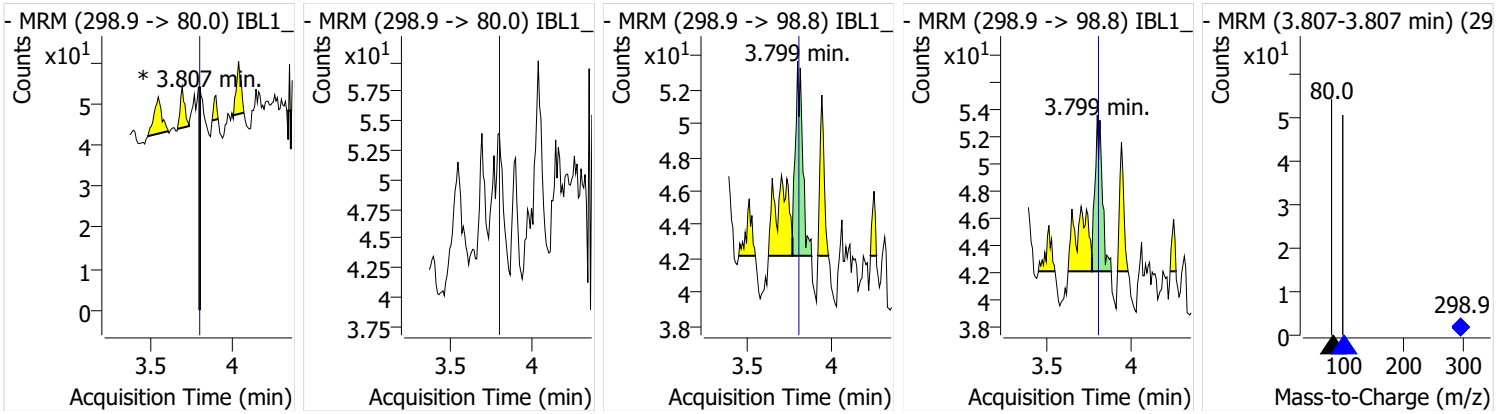

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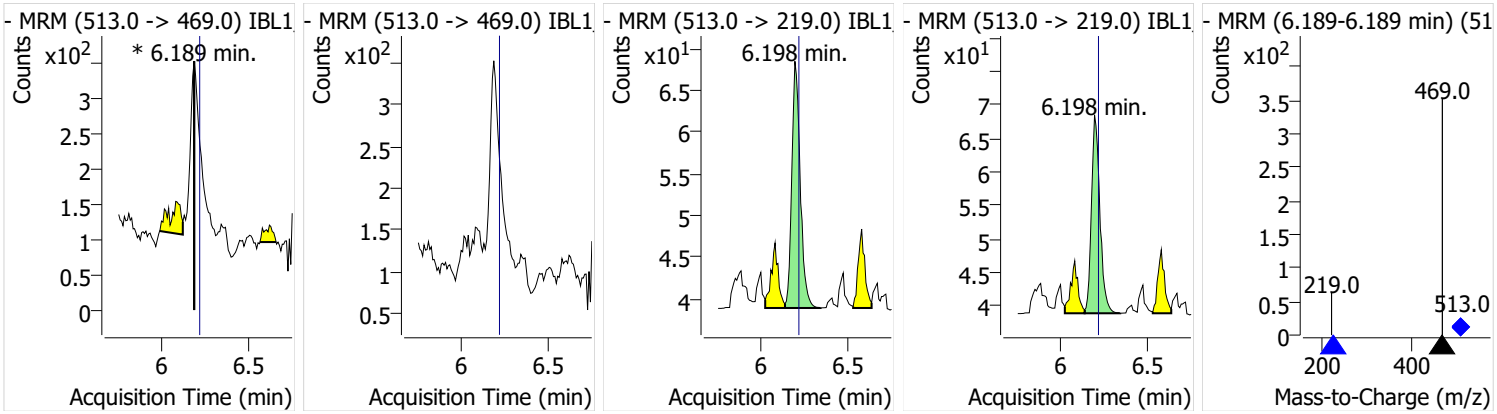

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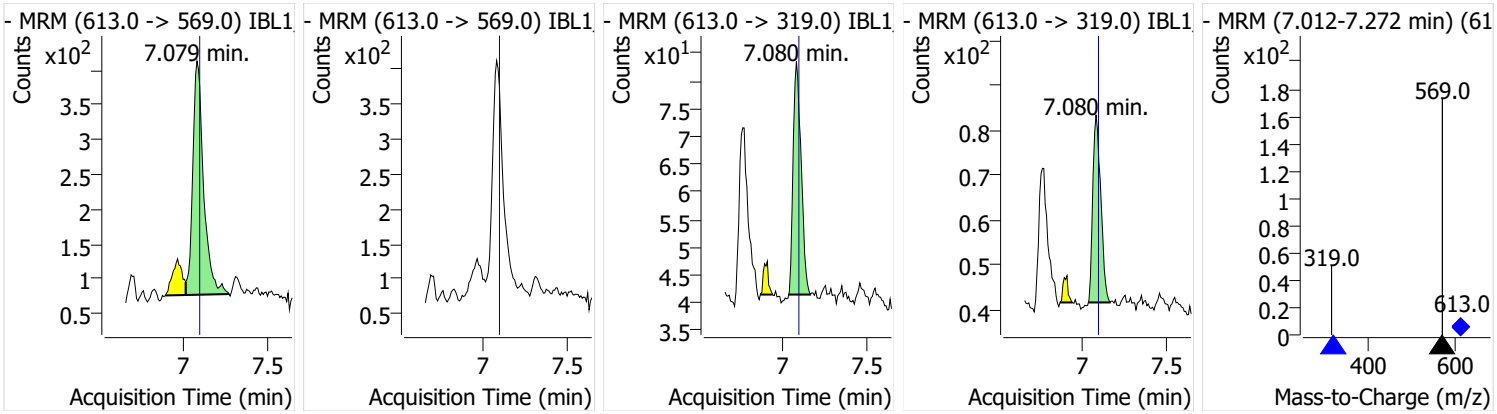

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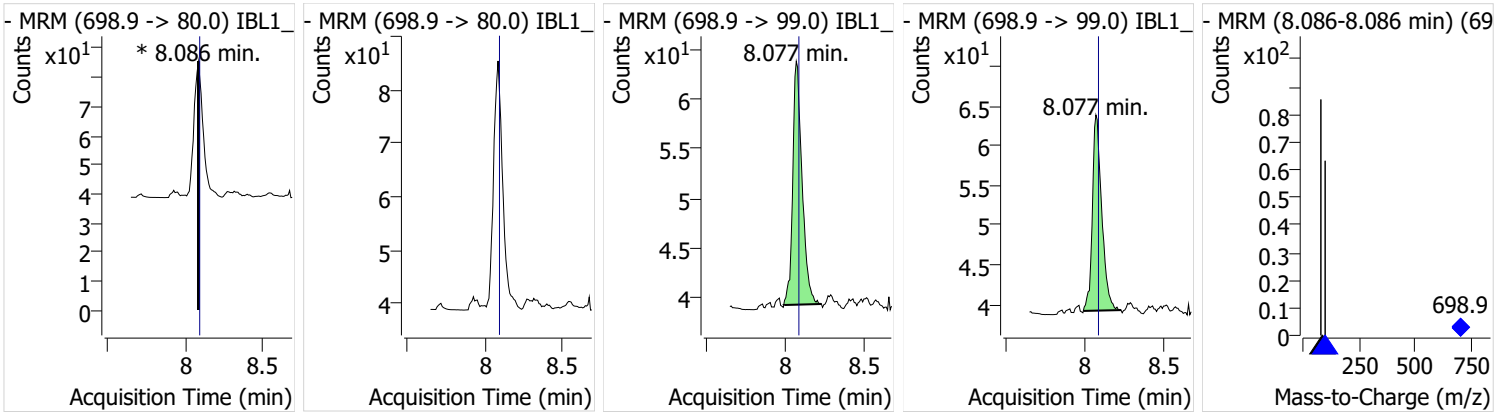

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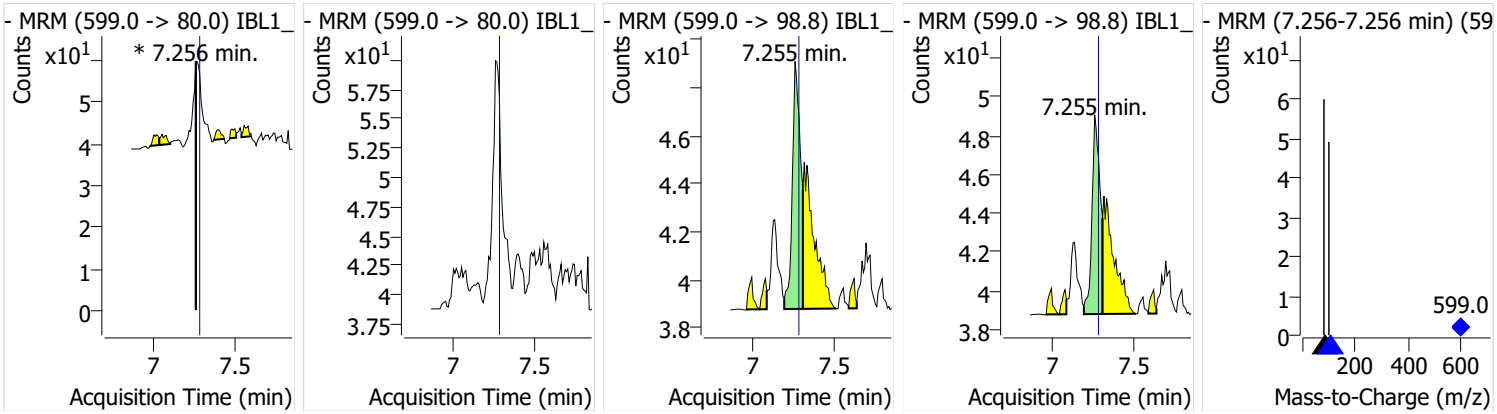

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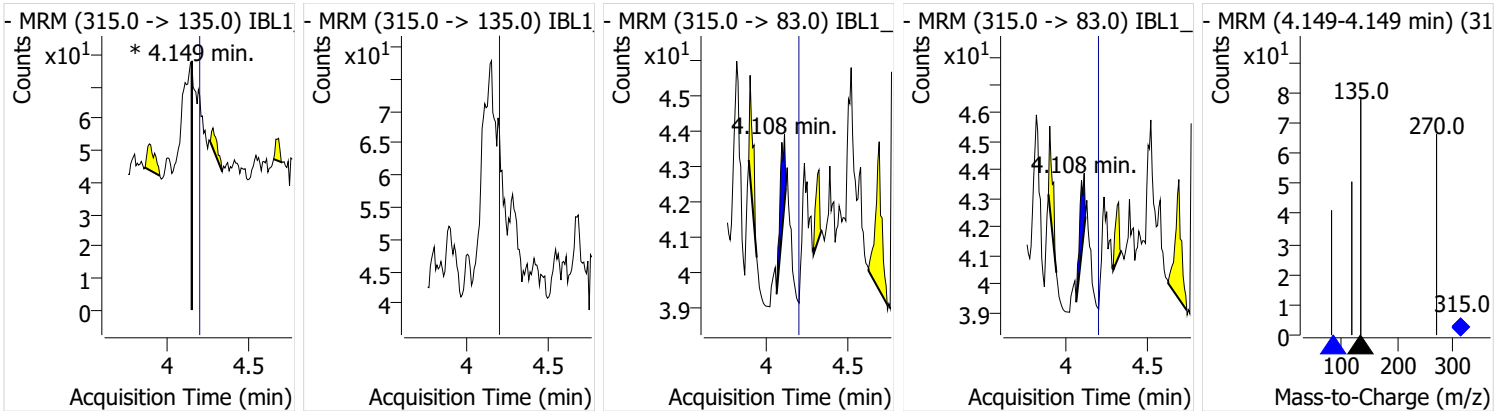
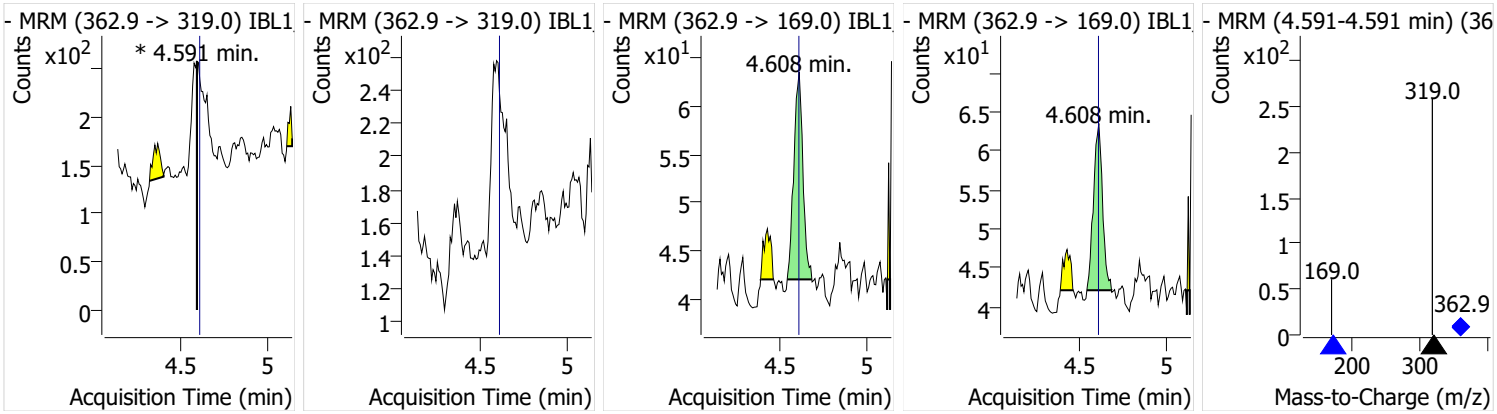
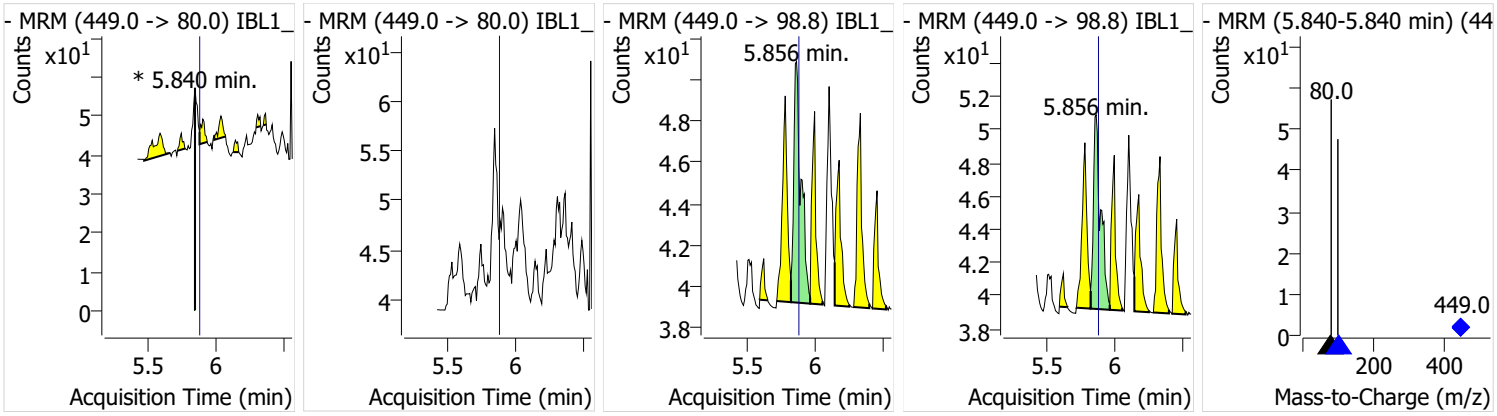


PFHpA



PFHpS



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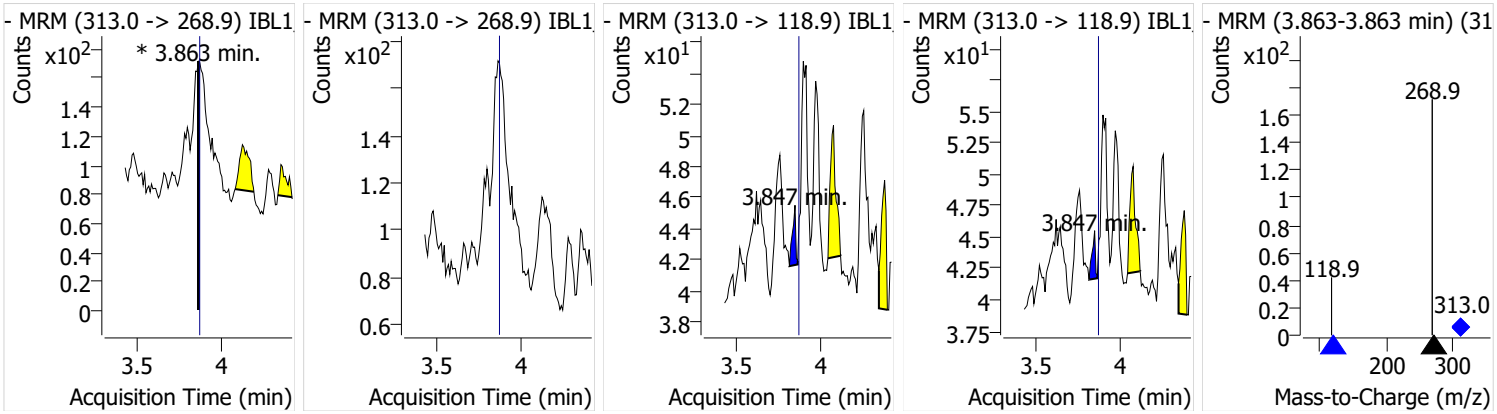
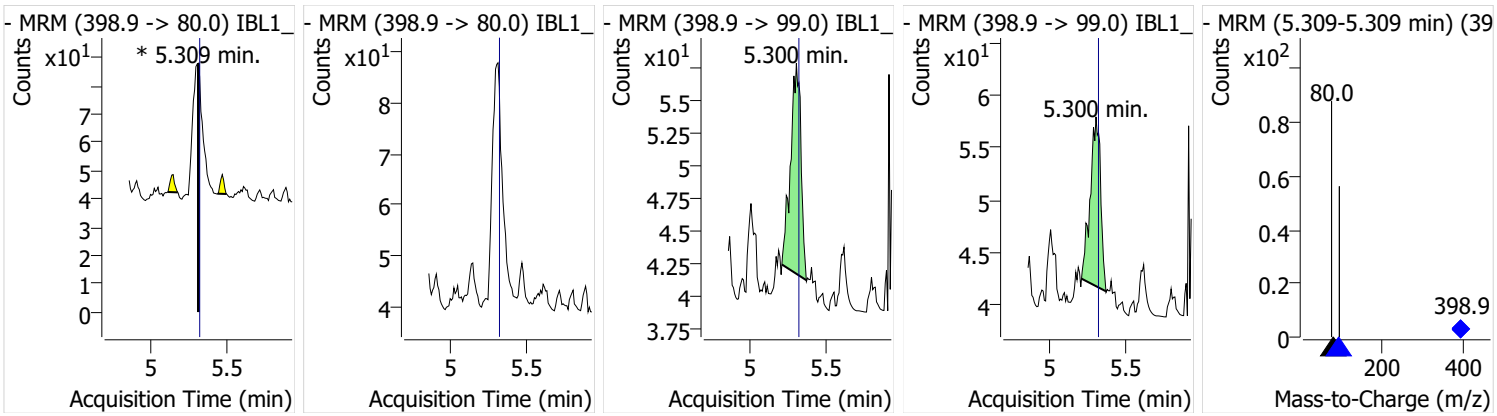
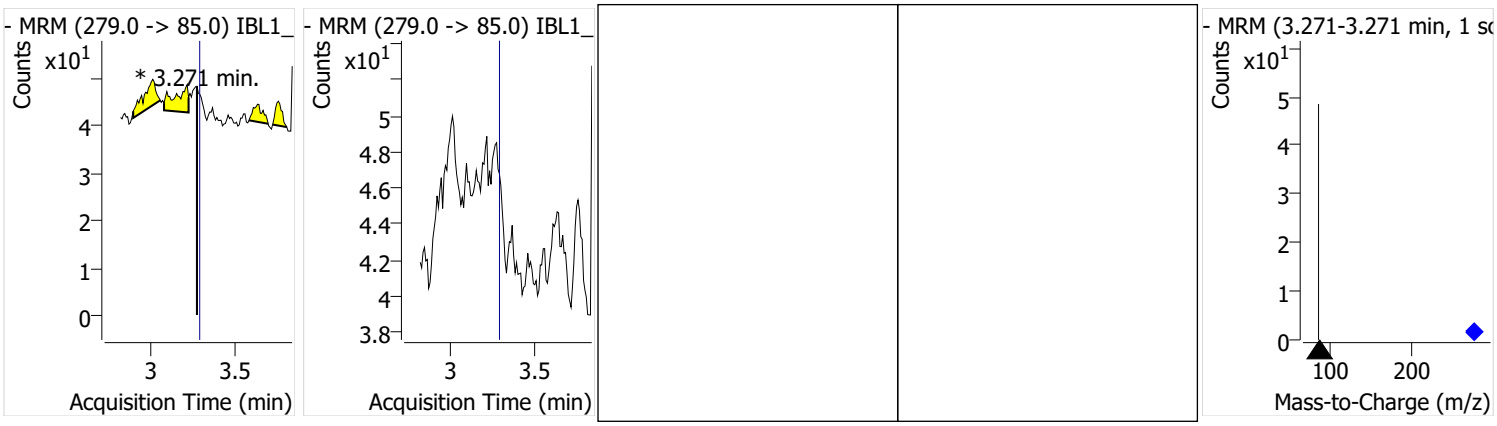


PFHxS



PFMBA



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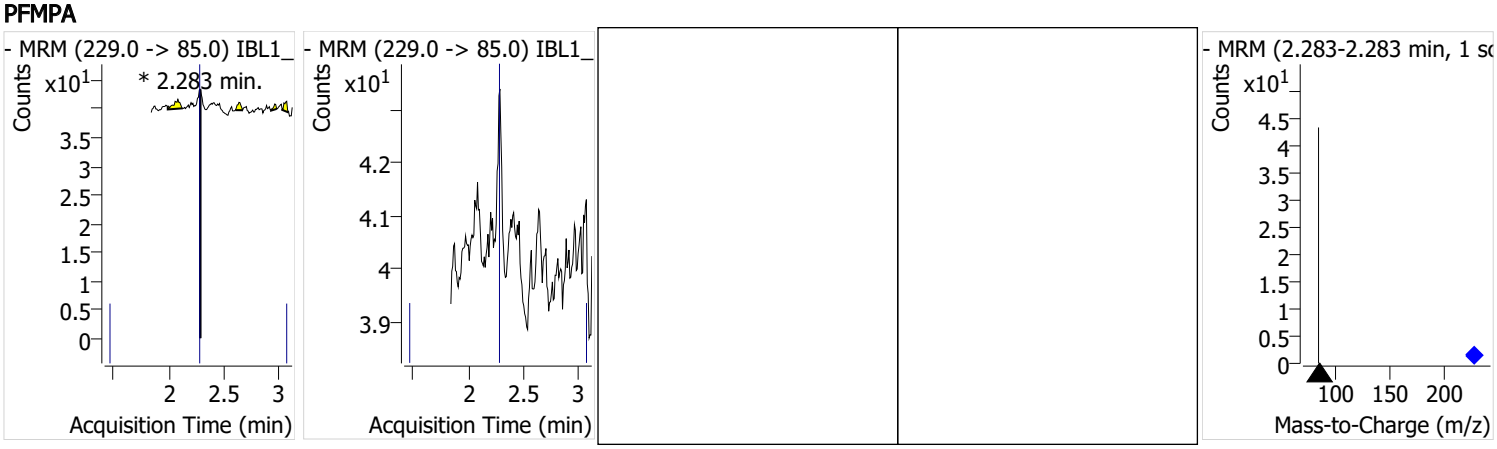

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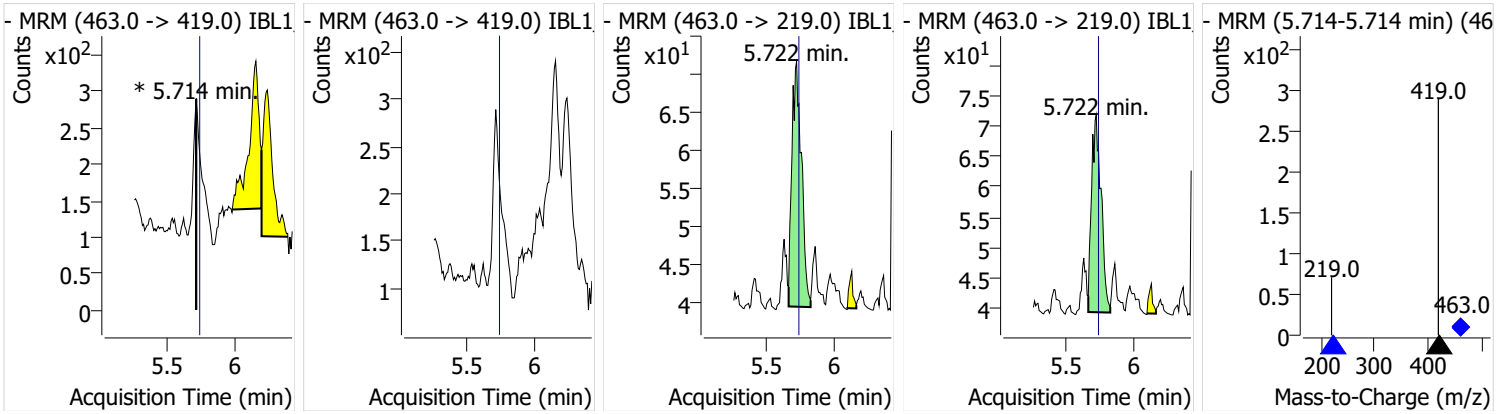

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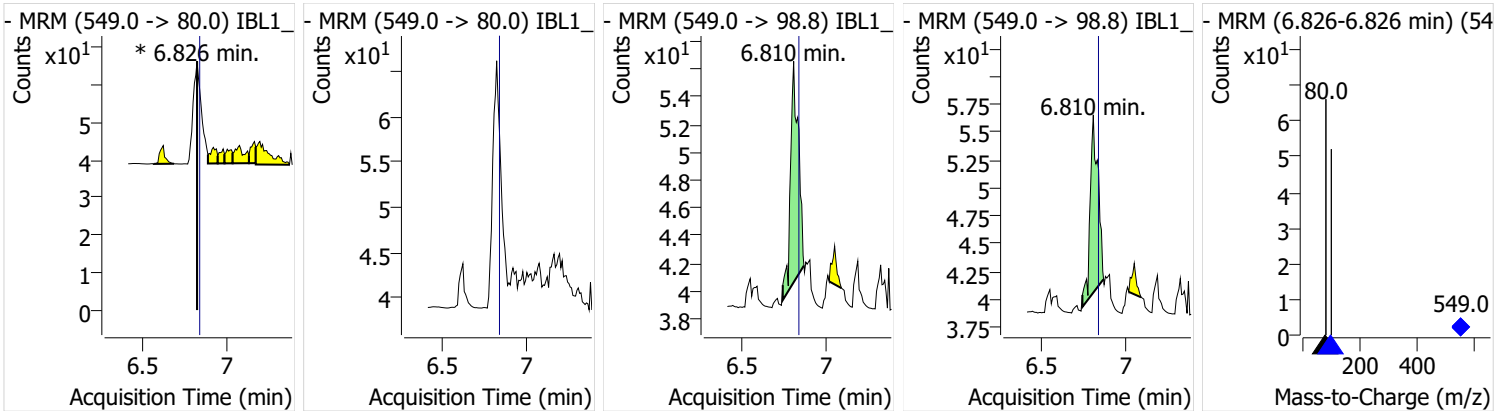

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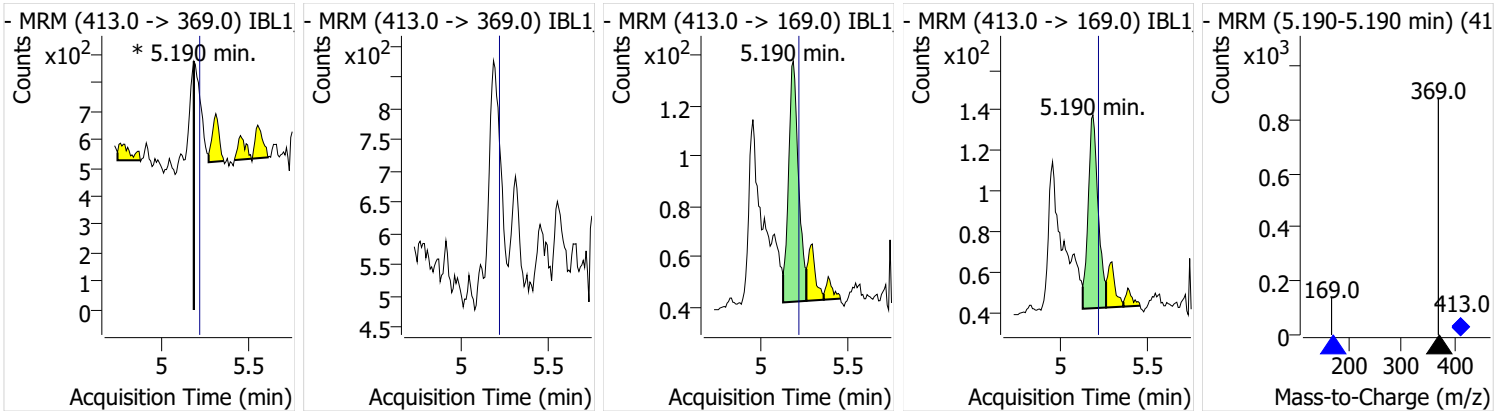
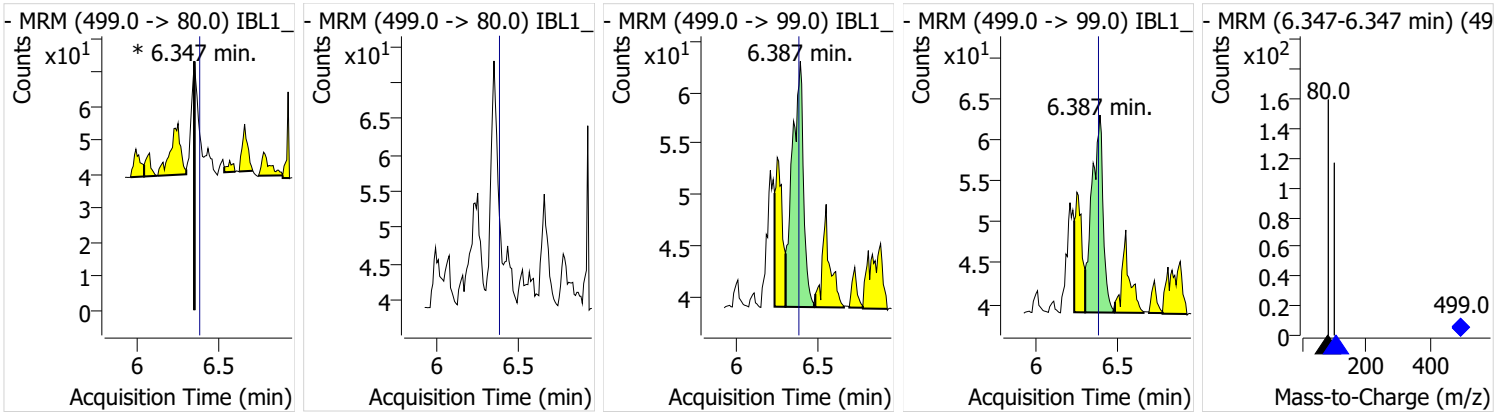


PFOS



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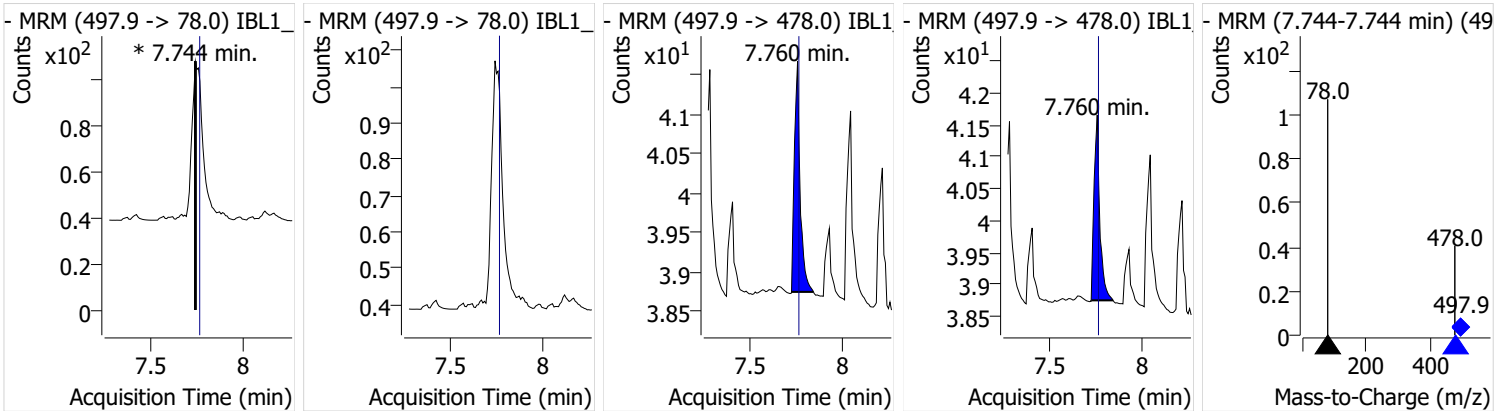
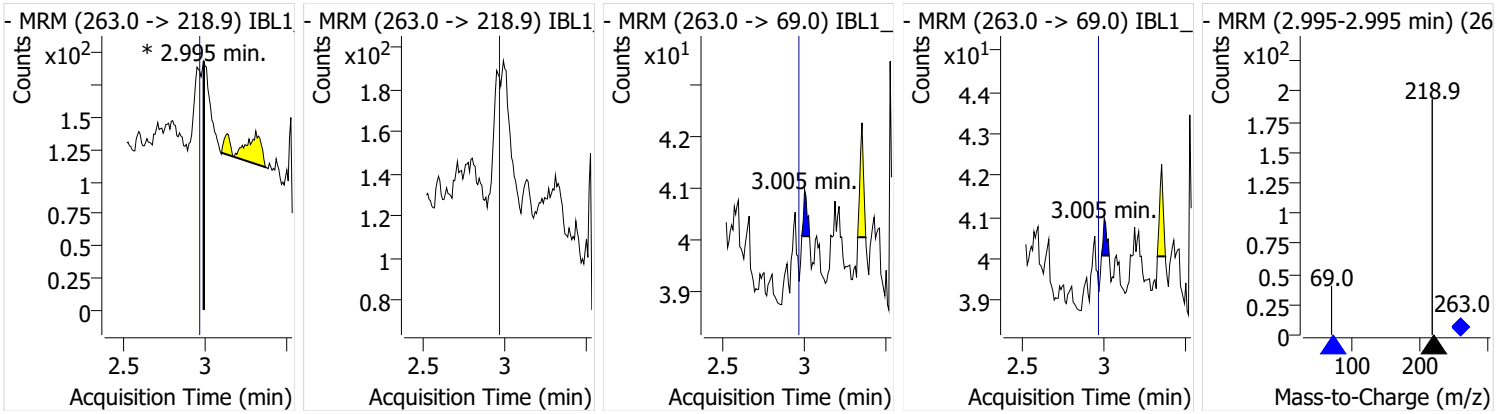


PFPeA



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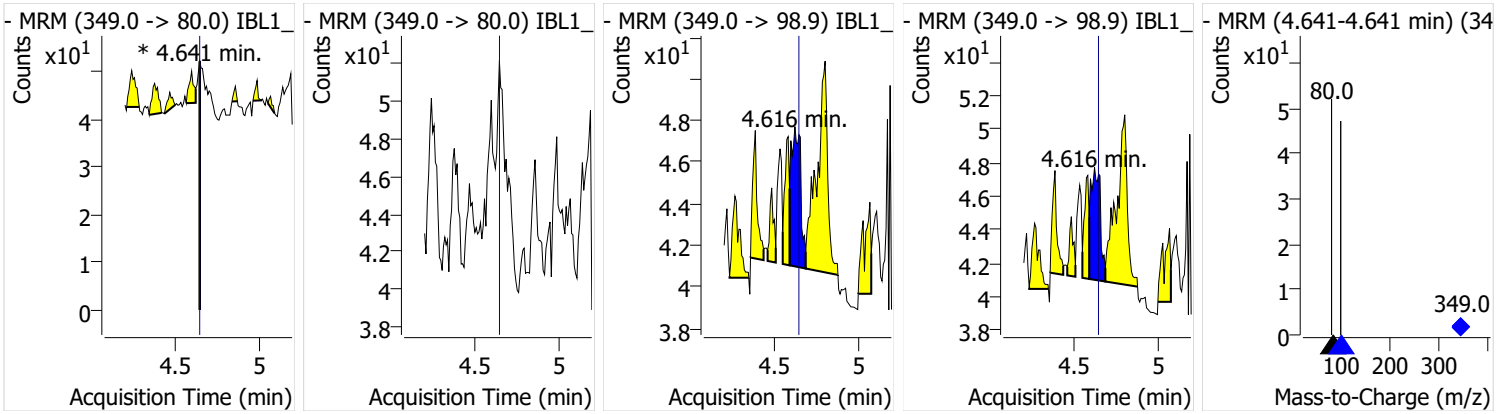
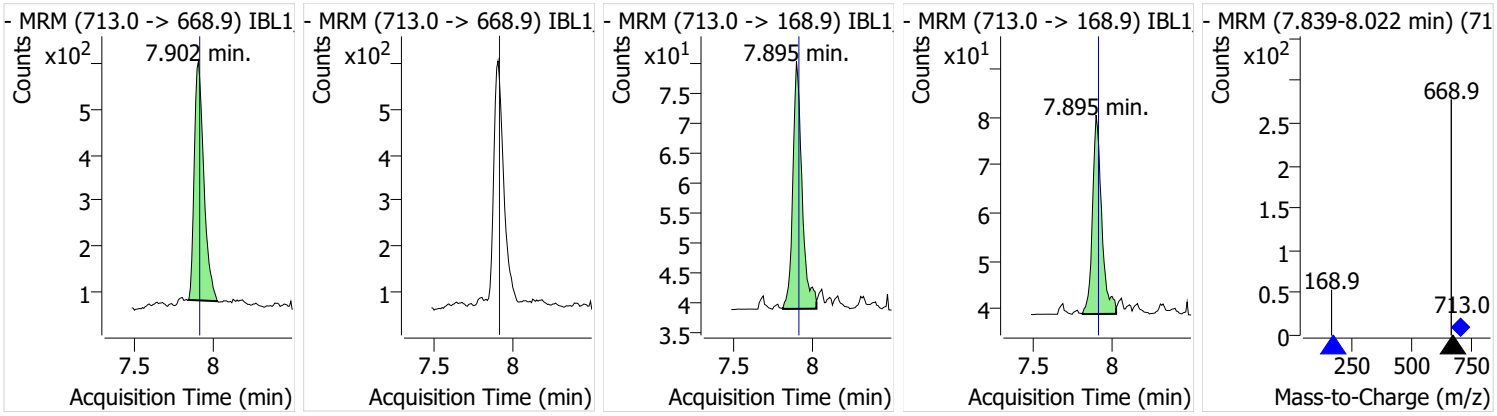
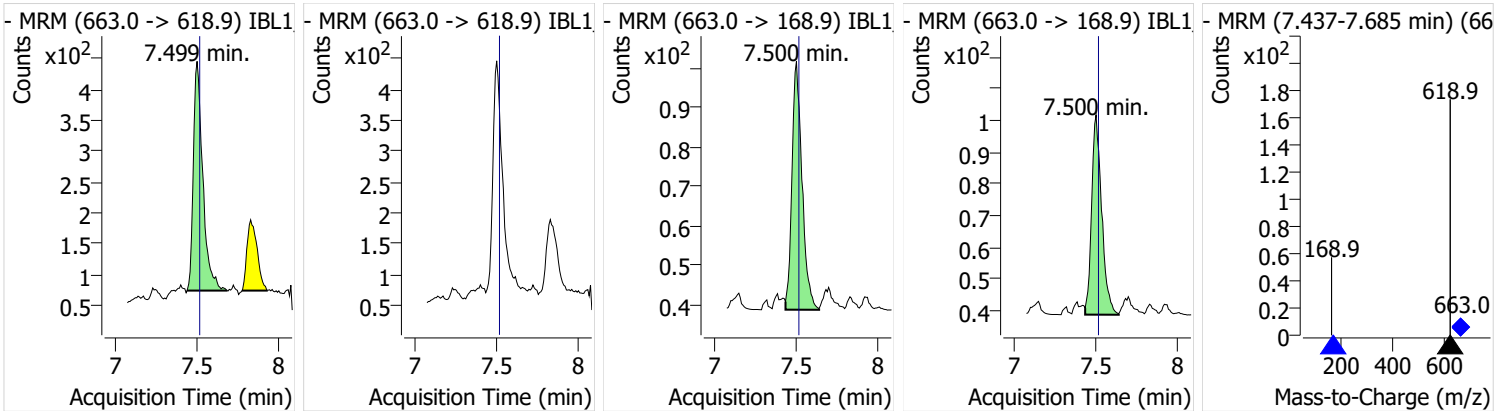


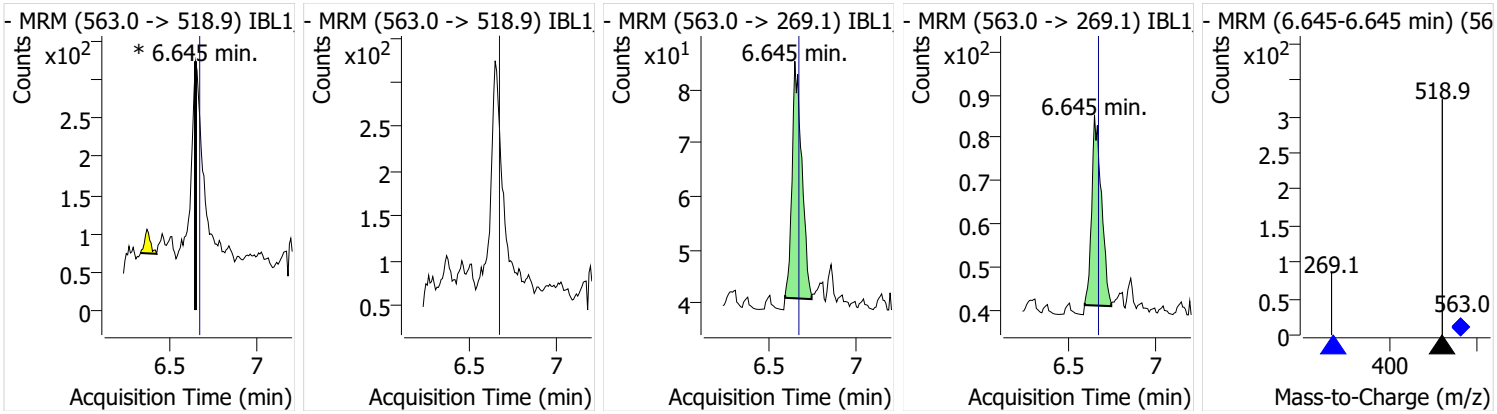
PFTeDA



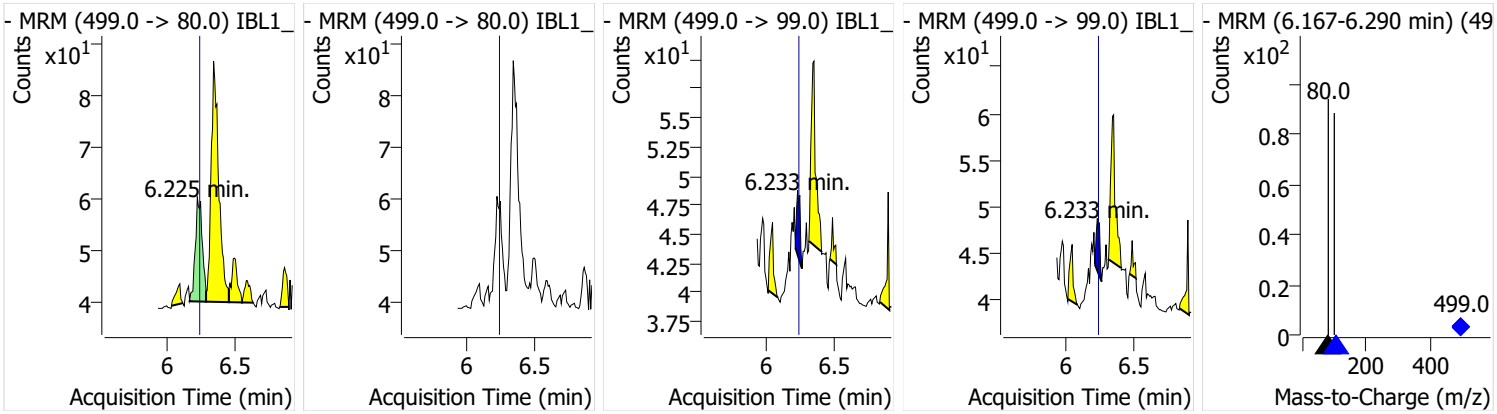
PFTrDA



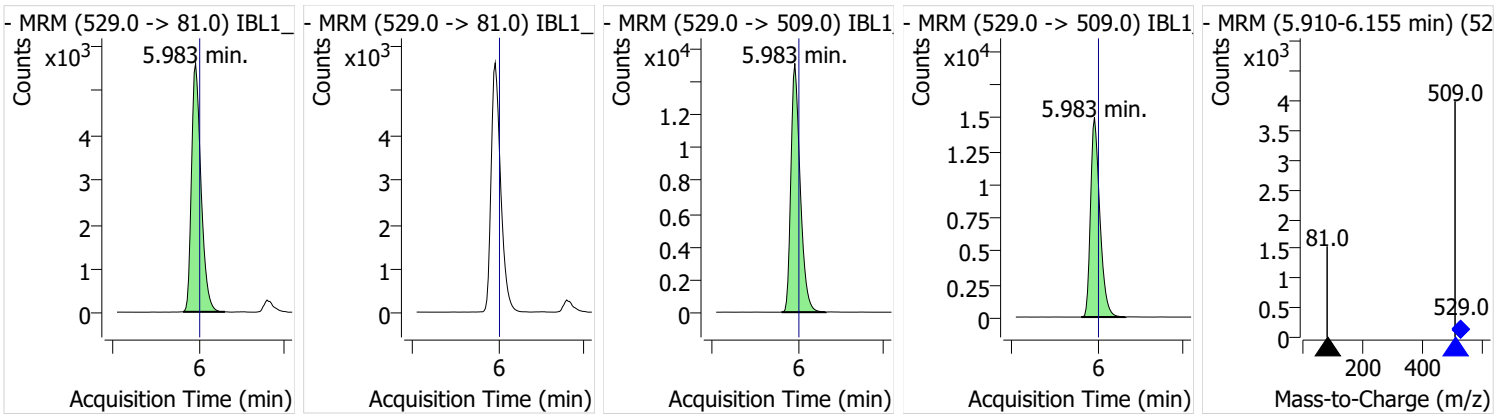
PFUnA



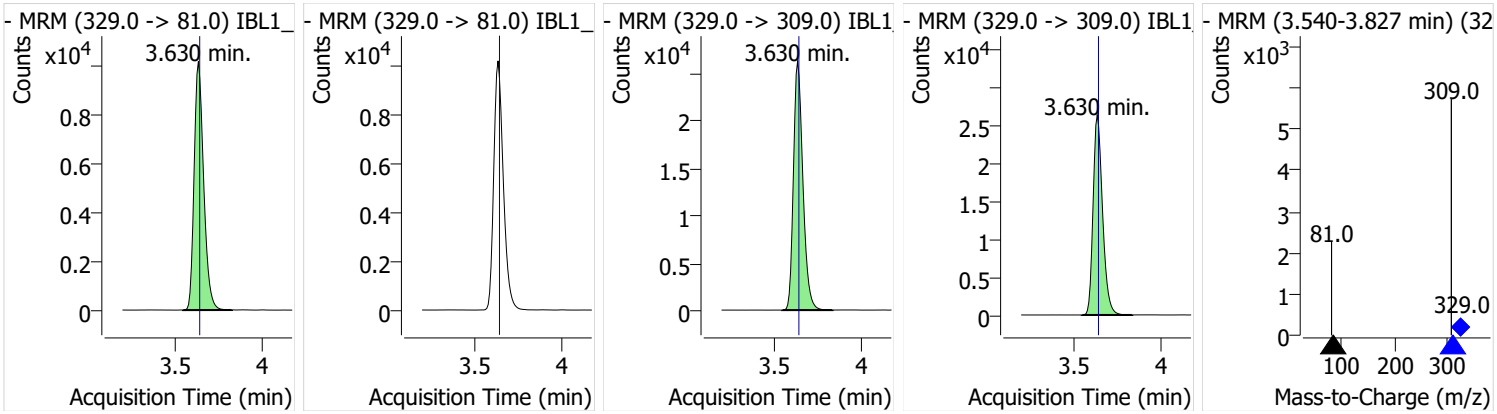
TDCA



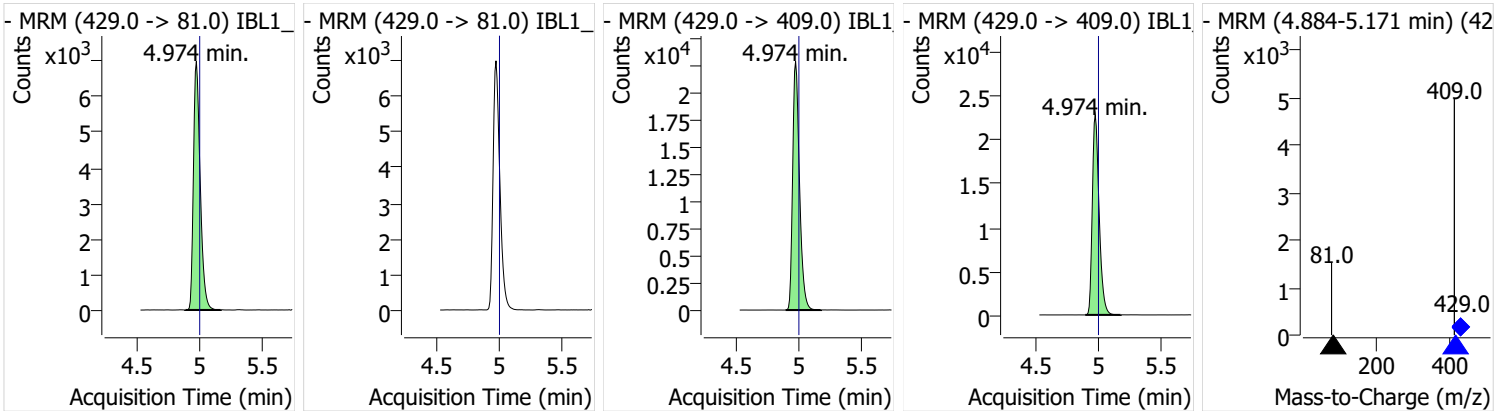
13C2-8:2FTS



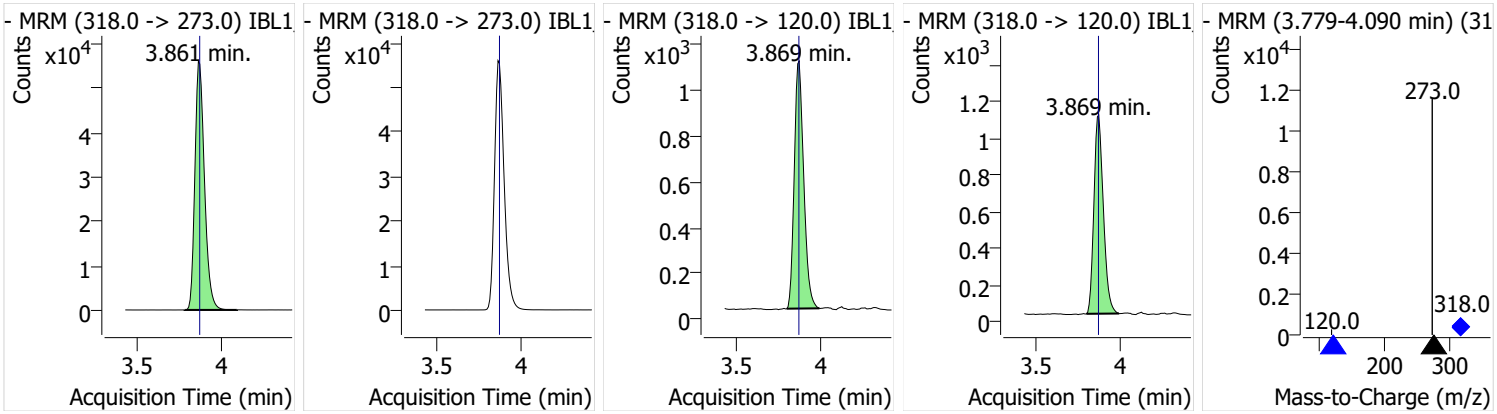
13C2-4:2FTS



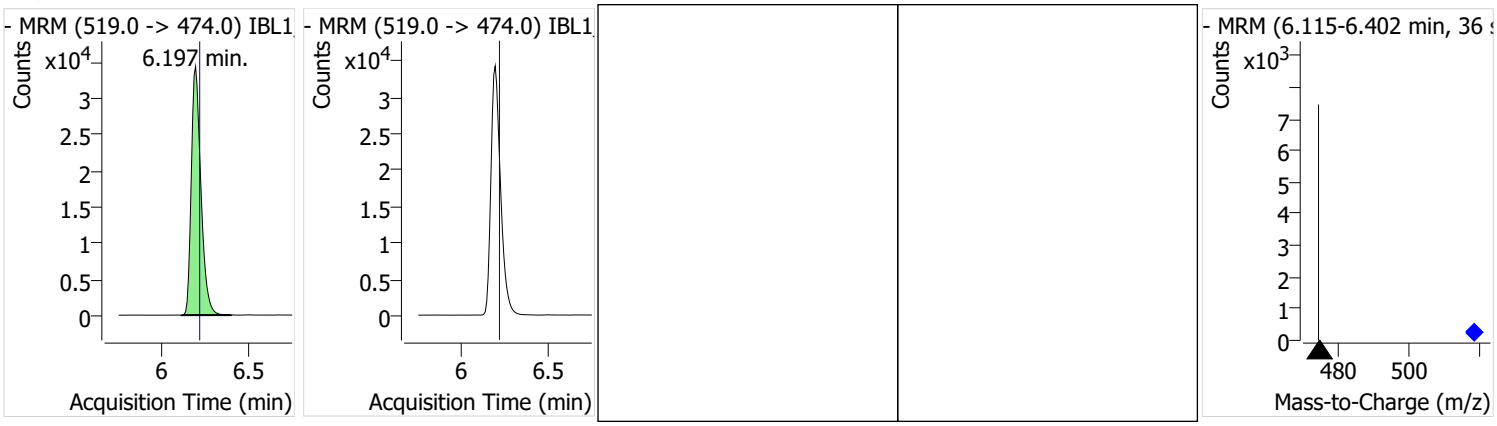
13C2-6:2FTS



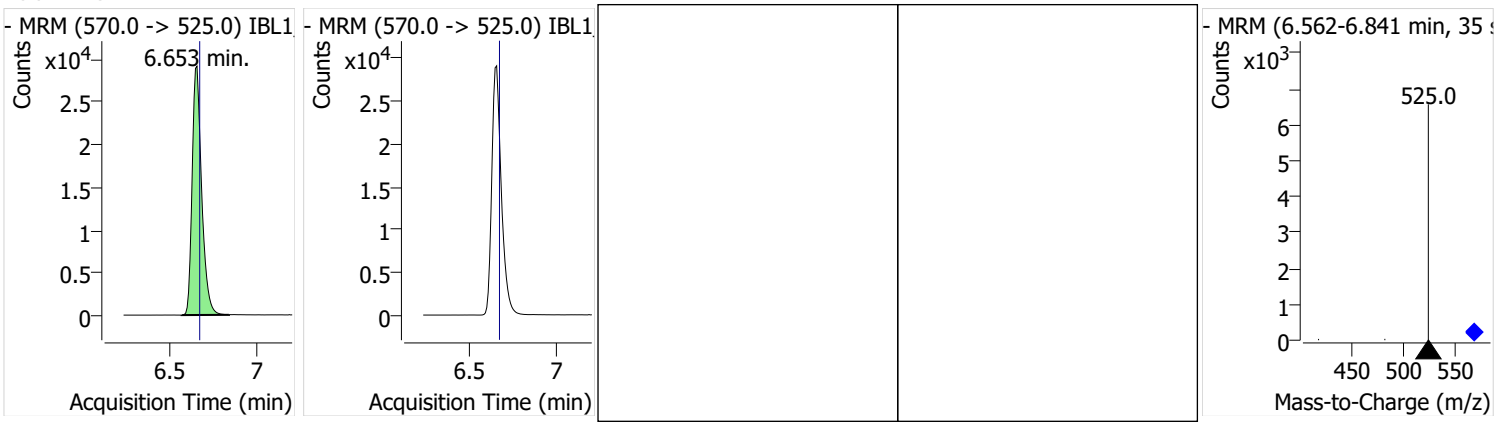
13C5-PFHxA



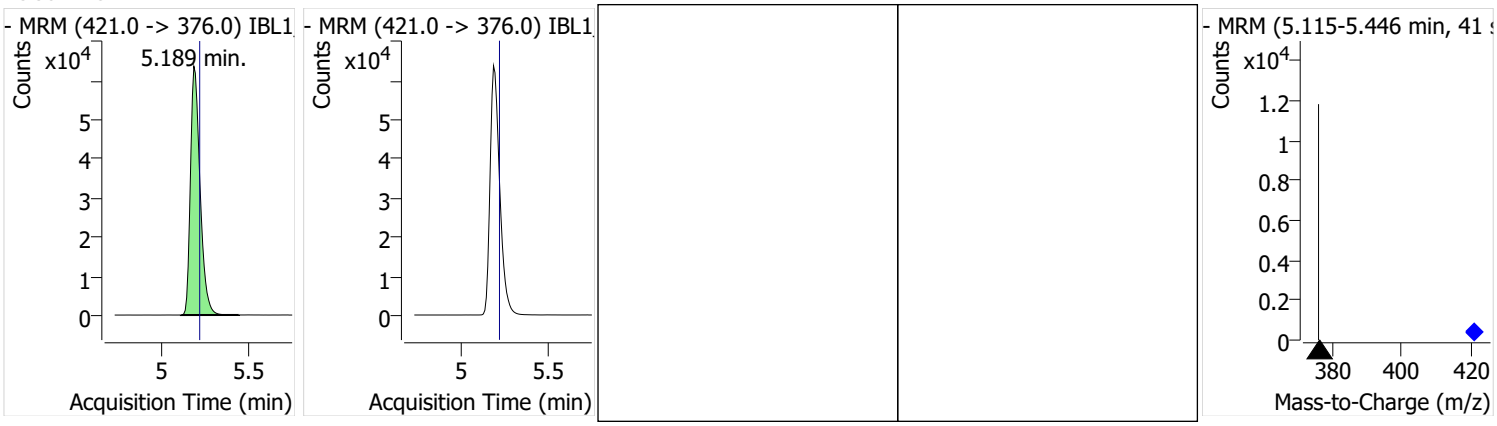
13C6-PFDA



13C7-PFUnA



13C8-PFOA



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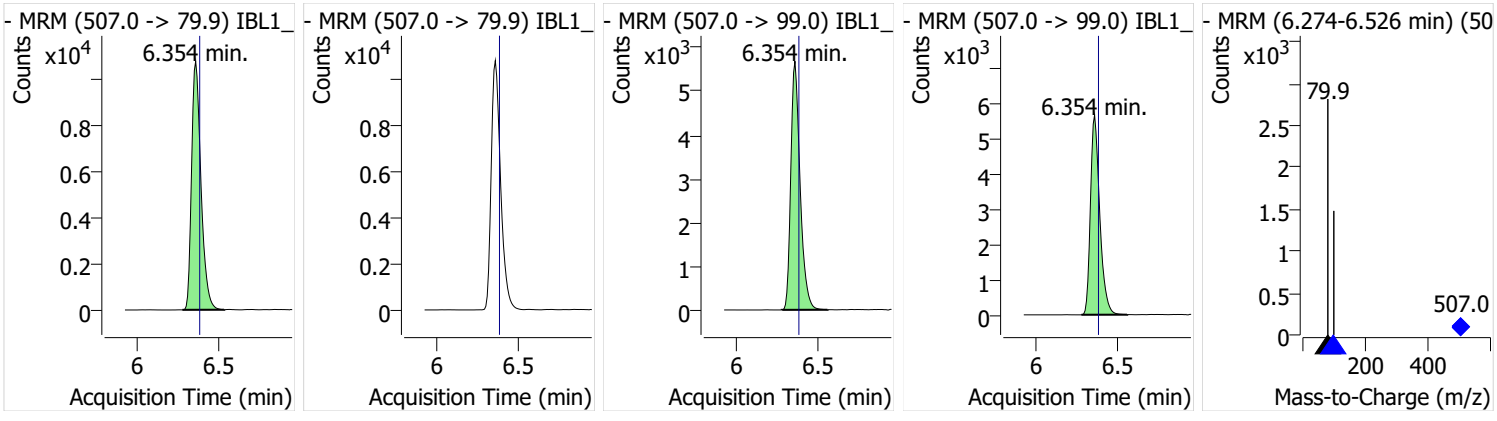

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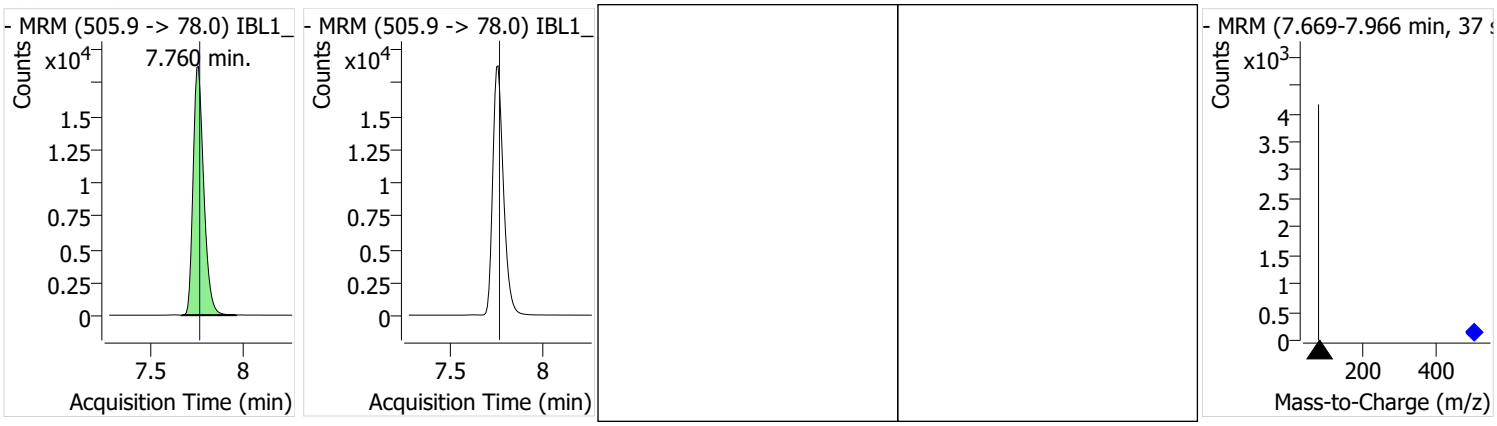
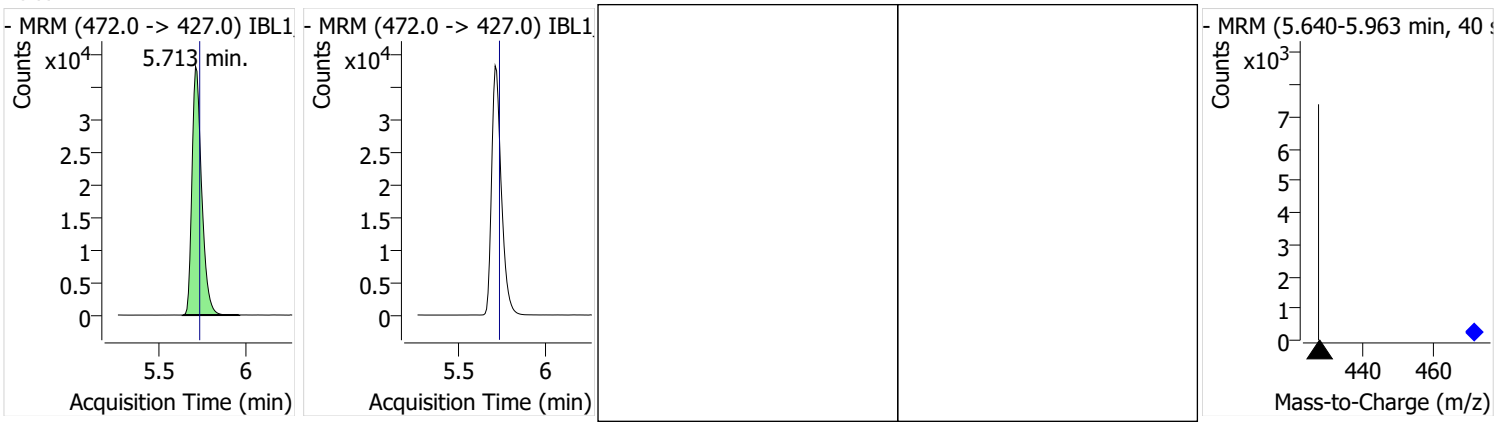
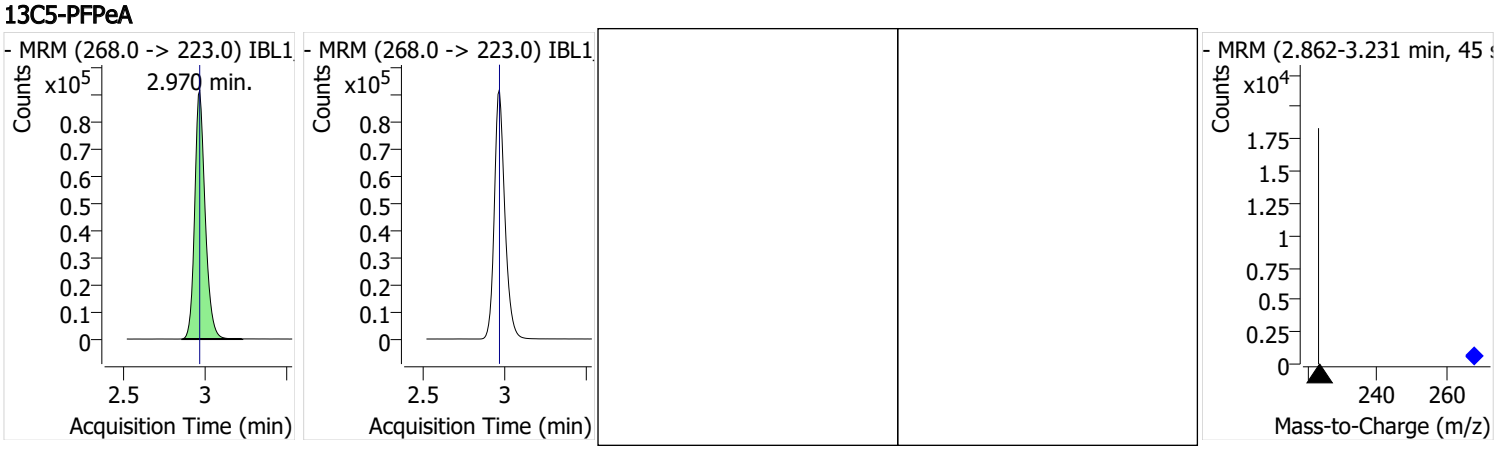


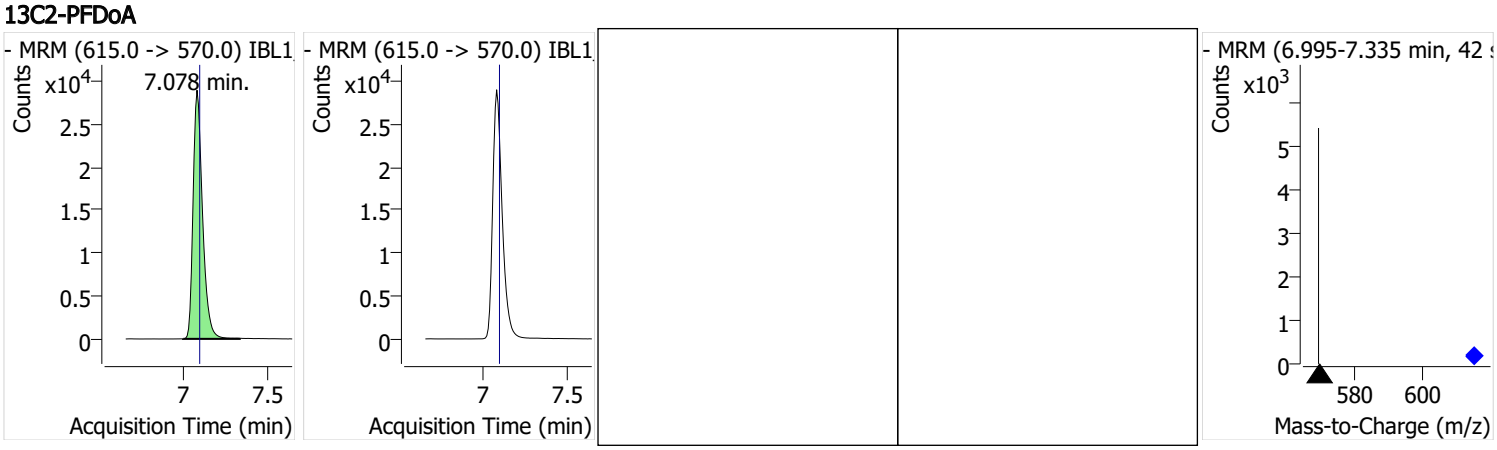
13C9-PFNA



13C5-PFPeA



13C2-PFDoA



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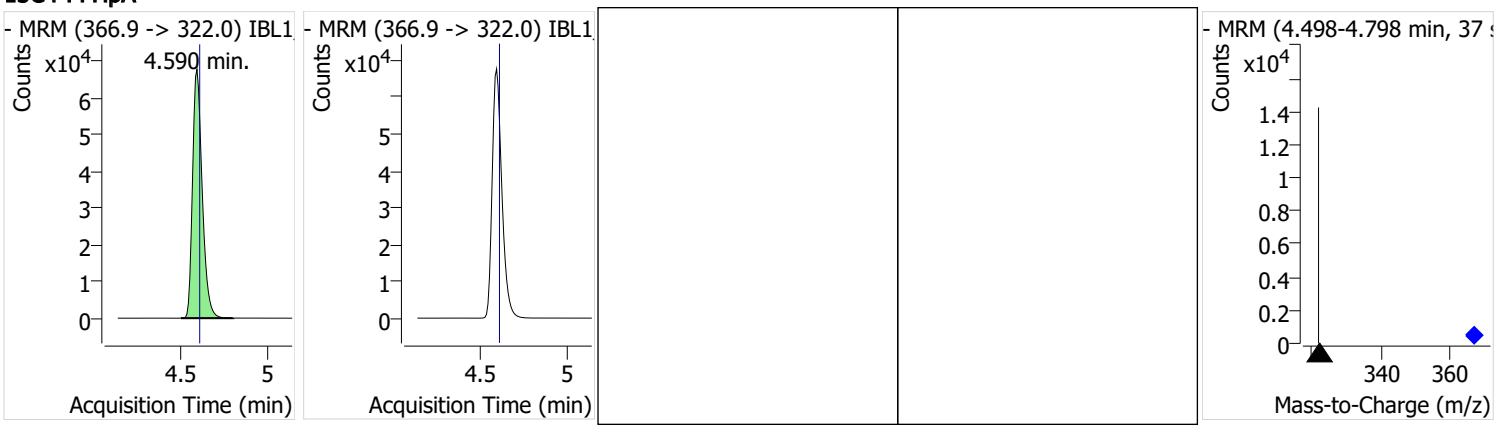

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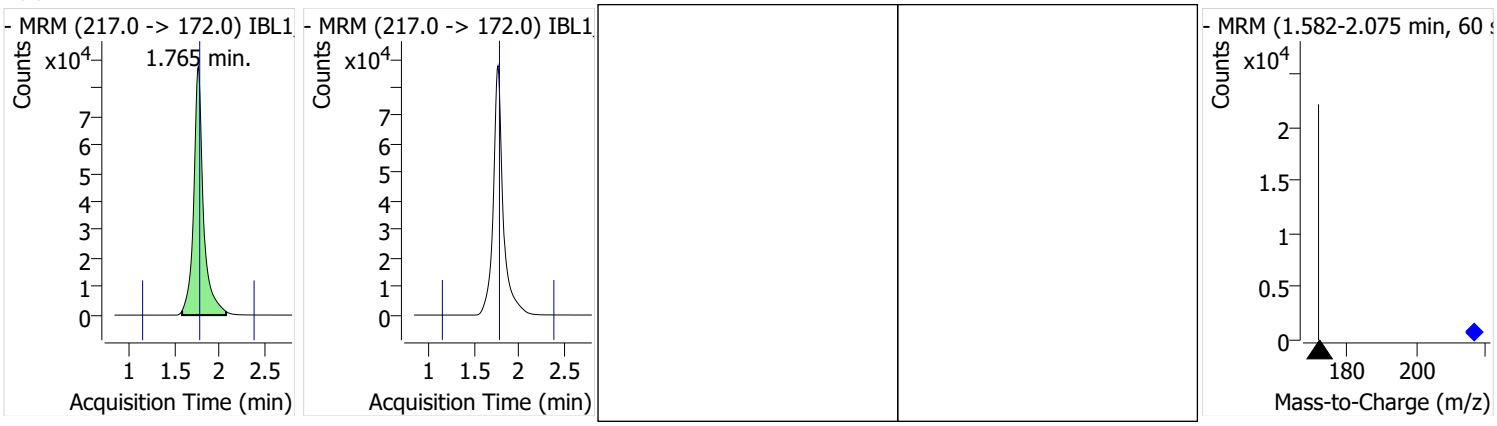
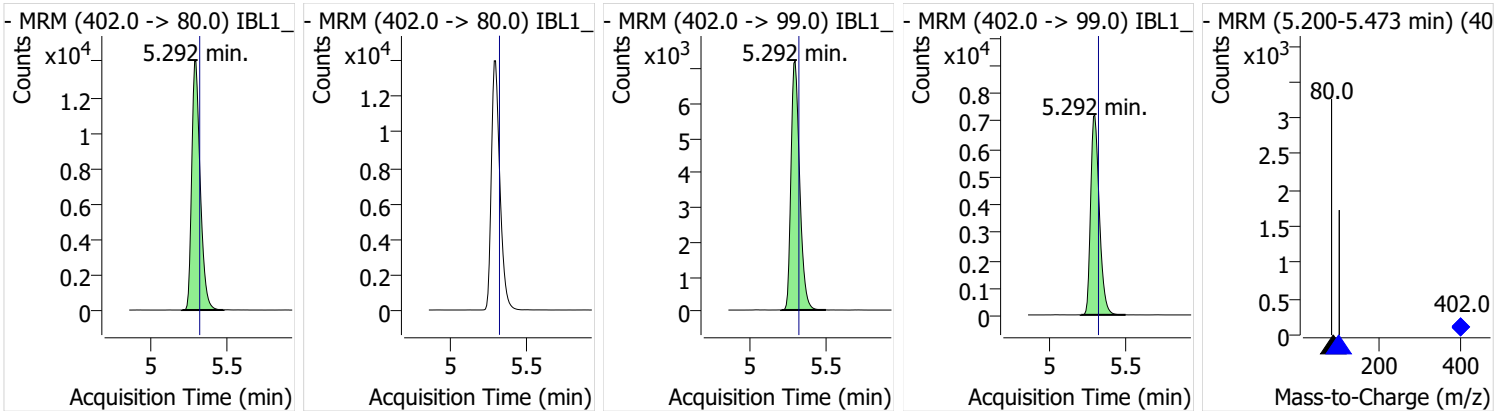


13C3-PFHxS



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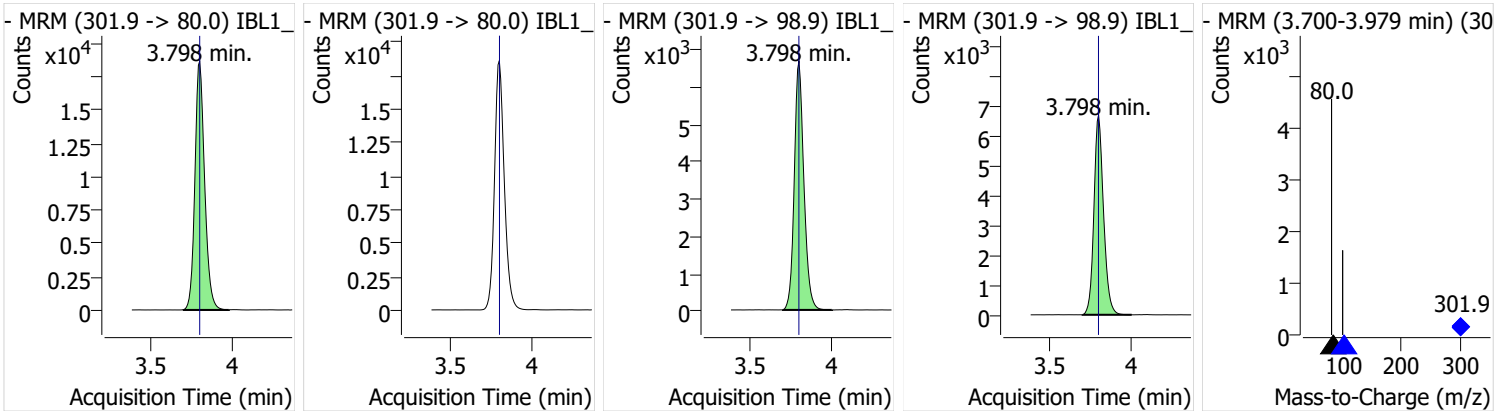

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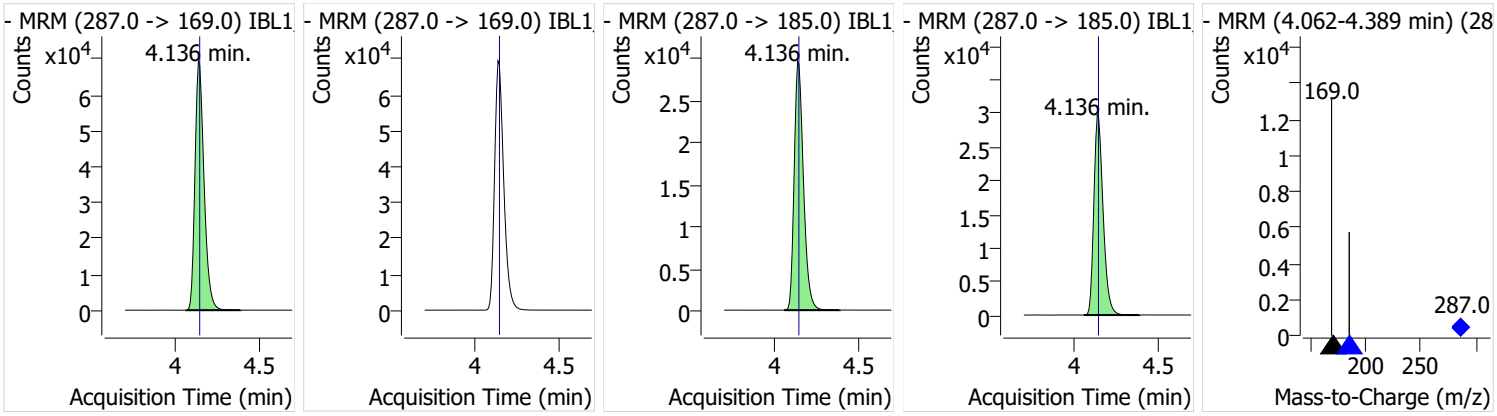
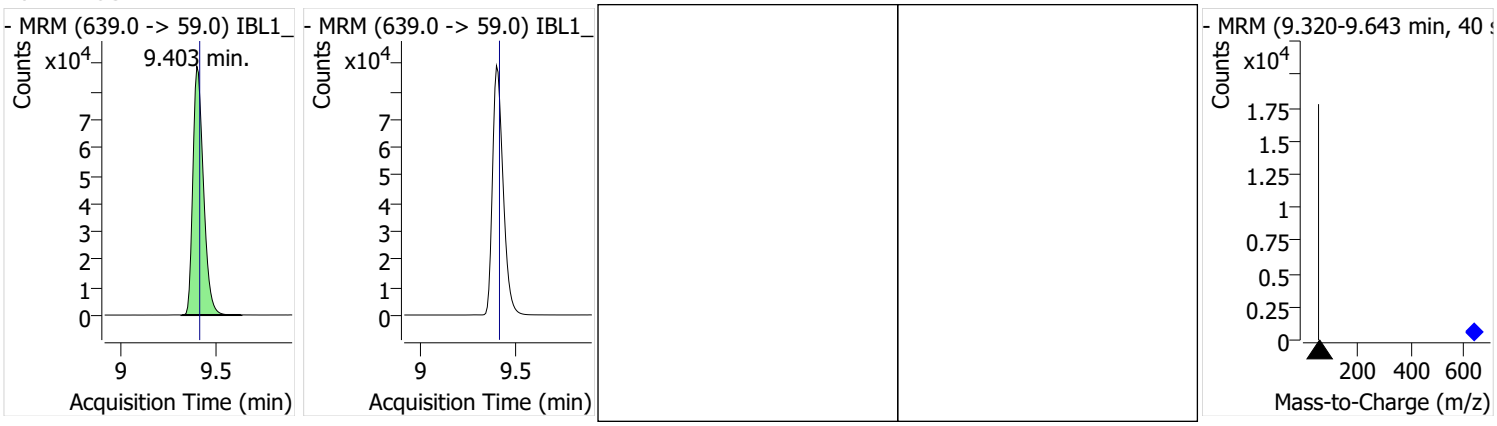
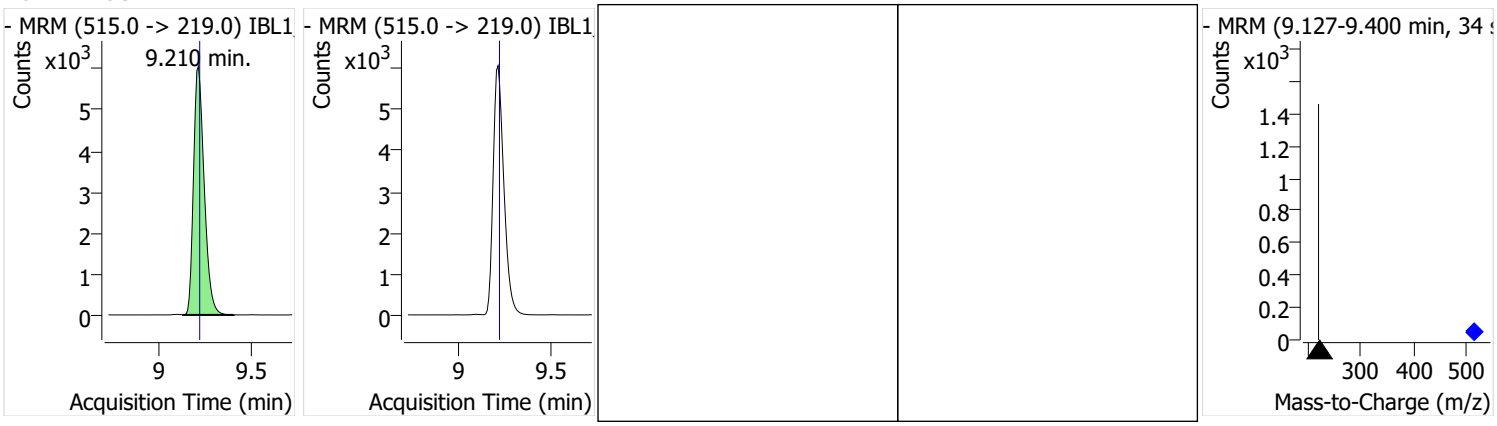


13C2-PFTeDA

D9-NEtFOSE



D3-NMeFOSA



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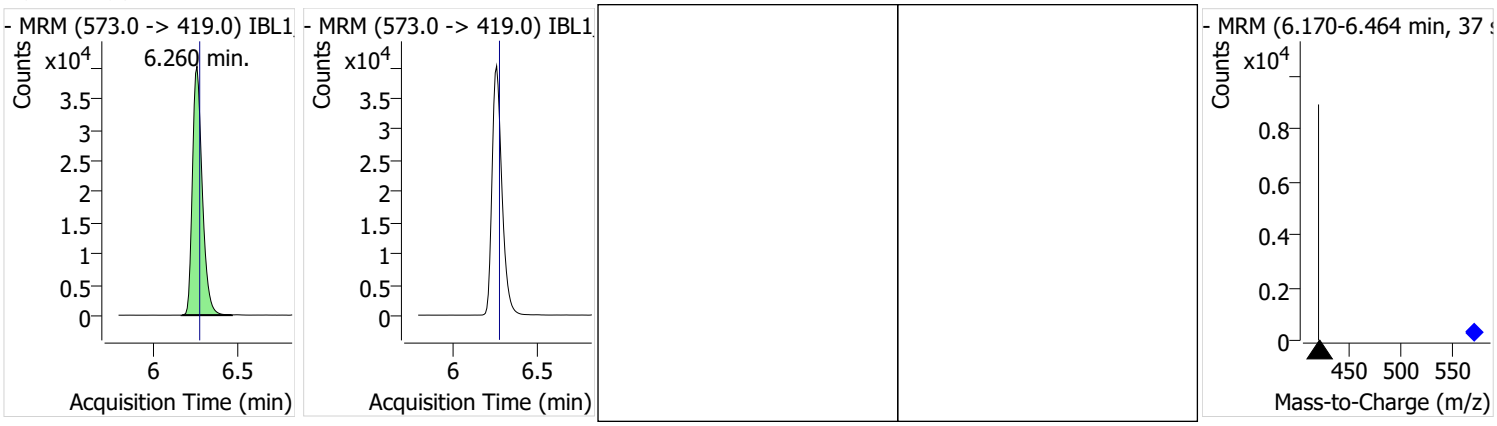

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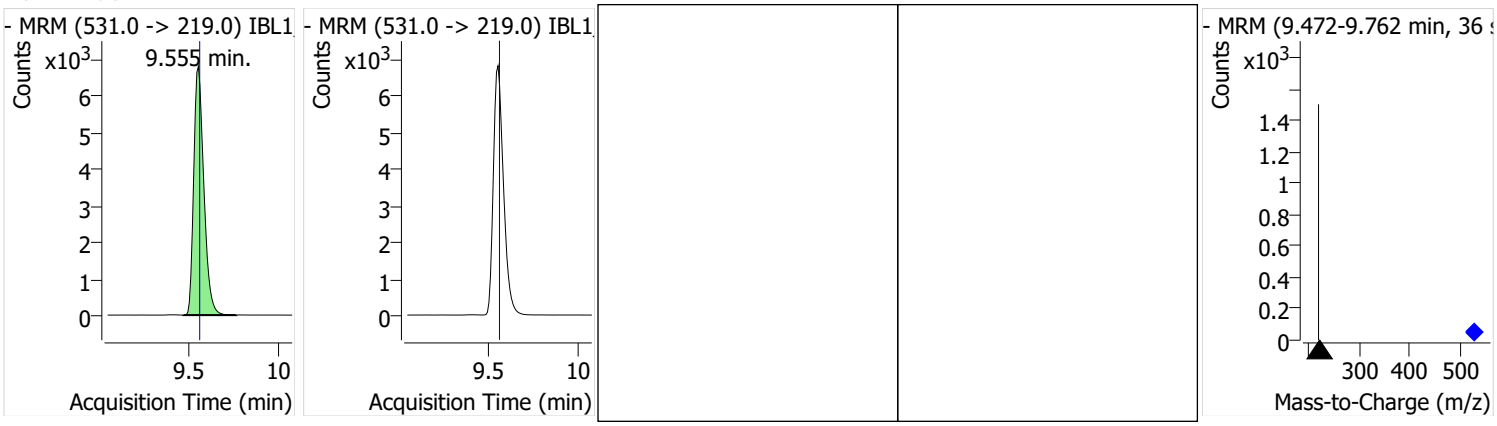
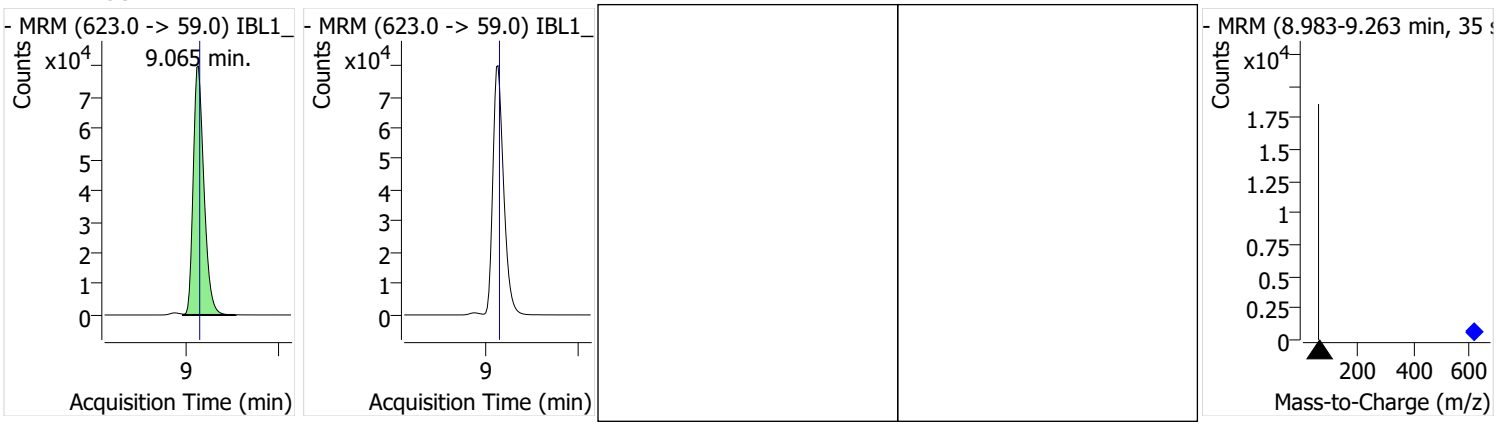


D5-NEtFOSAA

D7-NMeFOSE



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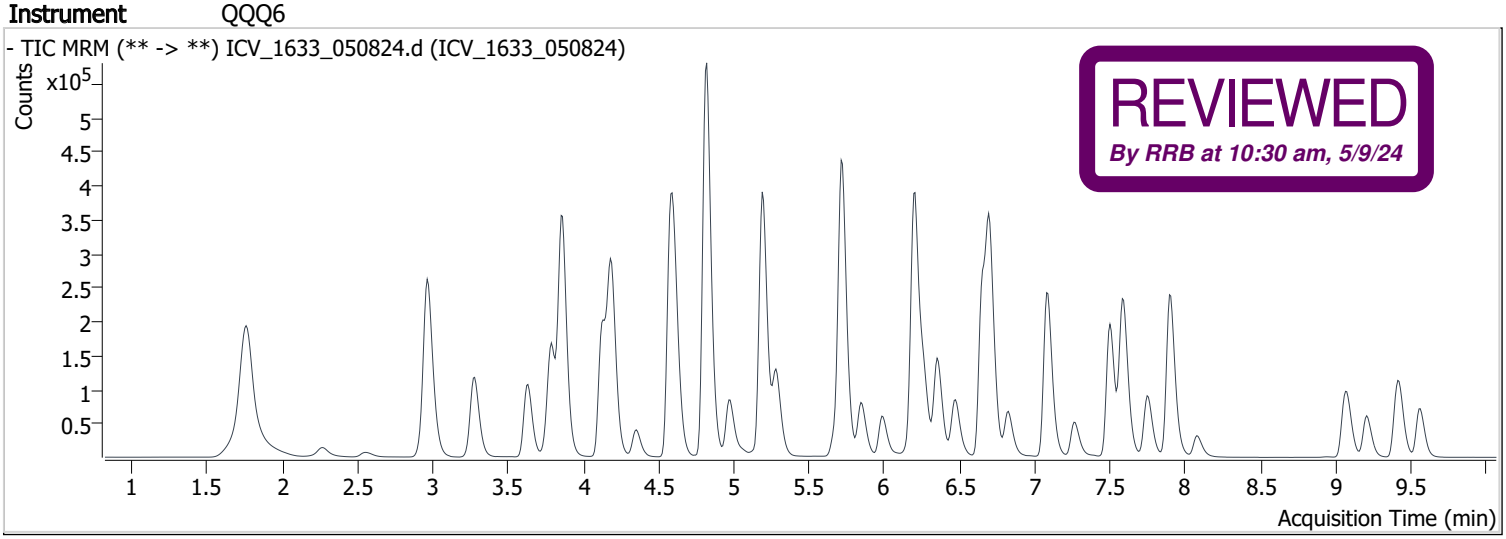
Acq. Time	5/8/2024 9:09 PM	**Data File**	ICV_1633_050824.d
Sample Type	QC	**Sample Name**	ICV_1633_050824
Dilution	1	**Acq. Method**	1633_ACQUISITION_01.m
Sample Comment	E#24E0178	**Processing method**	1633_042924.m
Instrument	QQQ6		



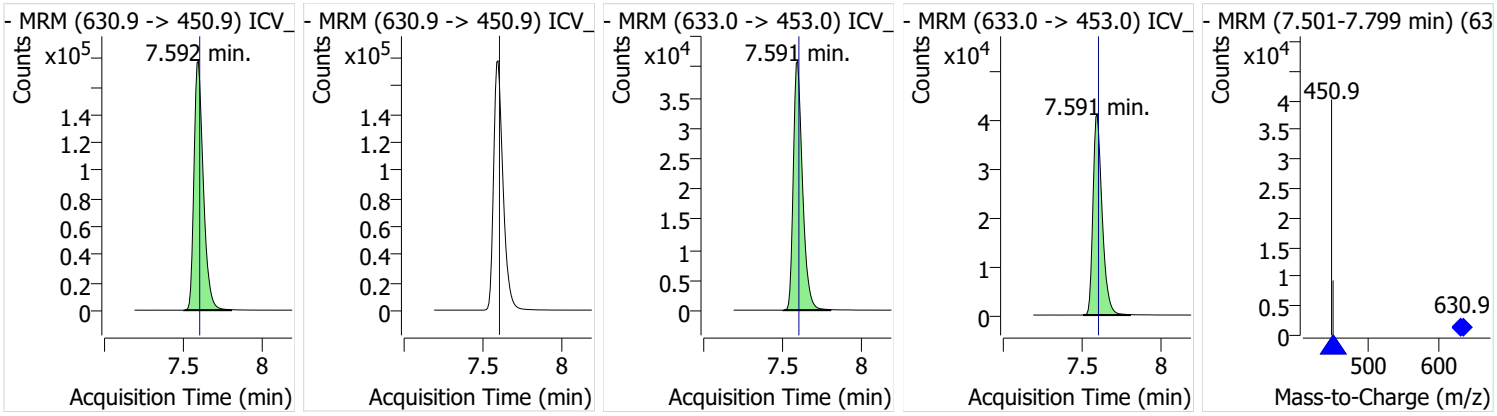
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
11Cl-PF3OUdS	7.592	735632	70722.89		13C3-HFPODA - ISTD	4.128	267288	9.3261	ng/ml			
633.0 -> 453.0			20955.54	22.6								
3:3FTCA	2.557	25332	11044.04		13C5-PFPeA - ISTD	2.961	404755	8.8054	ng/ml			
241.0 -> 117.0			1251.89	50.0								
4:2FTS	3.631	210510	43962.54		13C2-4:2FTS - ISTD	3.630	36597	9.8540	ng/ml			
327.0 -> 80.9			23201.11	39.2								
5:3FTCA	4.351	81346	5065.94		13C5-PFHxA - ISTD	3.861	217759	9.3749	ng/ml			
341.0 -> 217.0			5998.63	93.1								
6:2FTS	4.975	156219	34165.95		13C2-6:2FTS - ISTD	4.966	25050	9.2061	ng/ml			
427.0 -> 80.9			8407.89	33.1								
7:3FTCA	5.683	89323	5069.62		13C5-PFHxA - ISTD	3.861	217759	8.7411	ng/ml			
441.0 -> 317.0			3869.98	90.3								
8:2FTS	5.984	105775	22727.96		13C2-8:2FTS - ISTD	5.983	21290	9.7322	ng/ml			
527.0 -> 81.0			7581.20	40.9								
9Cl-PF3ONS	6.704	828717	39959.99		13C3-HFPODA - ISTD	4.128	267288	9.3950	ng/ml			
533.0 -> 353.0			10639.27	29.6								
ADONA	4.822	1678782	26433.20		13C3-HFPODA - ISTD	4.128	267288	8.4532	ng/ml			
377.0 -> 85.1			39864.94	35.5								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA	4.128	233430	15993.30		13C3-HFPODA - ISTD	4.128	267288	9.4902	ng/ml			
285.0 -> 184.9			8480.75	53.3								
NEtFOSA	9.565	127544	132093.24		D5-NEtFOSA - ISTD	9.555	25770	9.5268	ng/ml			
526.0 -> 219.0			86798.08	99.0								
NEtFOSAA	6.472	175895	7868.76		D5-NEtFOSAA - ISTD	6.463	80586	9.0168	ng/ml	✔	3	AMS 05/09/24
584.0 -> 526.0			4391.82	67.1								
NEtFOSE	9.428	151704	49896.58		D9-NEtFOSE - ISTD	9.403	349079	9.7272	ng/ml			
NFDHA	3.775	77303	20502.47		13C5-PFHxA - ISTD	3.861	217759	10.5011	ng/ml			
295.0 -> 85.0			9095.90	35.5								
NMeFOSA	9.211	113643	94913.29		D3-NMeFOSA - ISTD	9.210	23677	9.9091	ng/ml			
512.0 -> 219.0			54320.97	91.9								
NMeFOSAA	6.269	117125	6579.64		D3-NMeFOSAA - ISTD	6.260	157924	8.7459	ng/ml	✔	3	AMS 05/09/24
570.0 -> 418.9			4670.59	69.2								
NMeFOSE	9.082	125063	52289.99		D7-NMeFOSE - ISTD	9.057	306532	9.4491	ng/ml			
PFBA	1.762	586480	10835.78		13C4-PFBA - ISTD	1.757	663160	9.5808	ng/ml			
PFBS	3.791	368279	50039.26		13C3-PFBS - ISTD	3.790	73982	9.9726	ng/ml			
298.9 -> 98.8			17363.81	40.3								
PFDA	6.206	1040478	17284.70		13C6-PFDA - ISTD	6.197	129690	9.7355	ng/ml			
513.0 -> 219.0			17085.08	16.4								
PFDoA	7.079	783214	4519.10		13C2-PFDoA - ISTD	7.078	111228	8.4951	ng/ml			
613.0 -> 319.0			6258.36	13.3								
PFDoS	8.078	79127	108560.18		13C8-PFOS - ISTD	6.354	41726	9.5158	ng/ml			
698.9 -> 99.0			38114.94	62.8								
PFDS	7.264	127924	9278.82		13C8-PFOS - ISTD	6.354	41726	9.4100	ng/ml			
599.0 -> 98.8			32254.27	59.6								
PFEESA	4.189	991007	62316.78		13C5-PFHxA - ISTD	3.861	217759	9.0424	ng/ml			
315.0 -> 83.0			17316.78	7.1								
PFHpA	4.583	967588	16326.69		13C4-PFHpA - ISTD	4.582	256775	9.0407	ng/ml			
362.9 -> 169.0			25802.92	17.3								
PFHpS	5.848	202666	17113.59		13C8-PFOS - ISTD	6.354	41726	9.2144	ng/ml			
449.0 -> 98.8			19019.07	51.8								

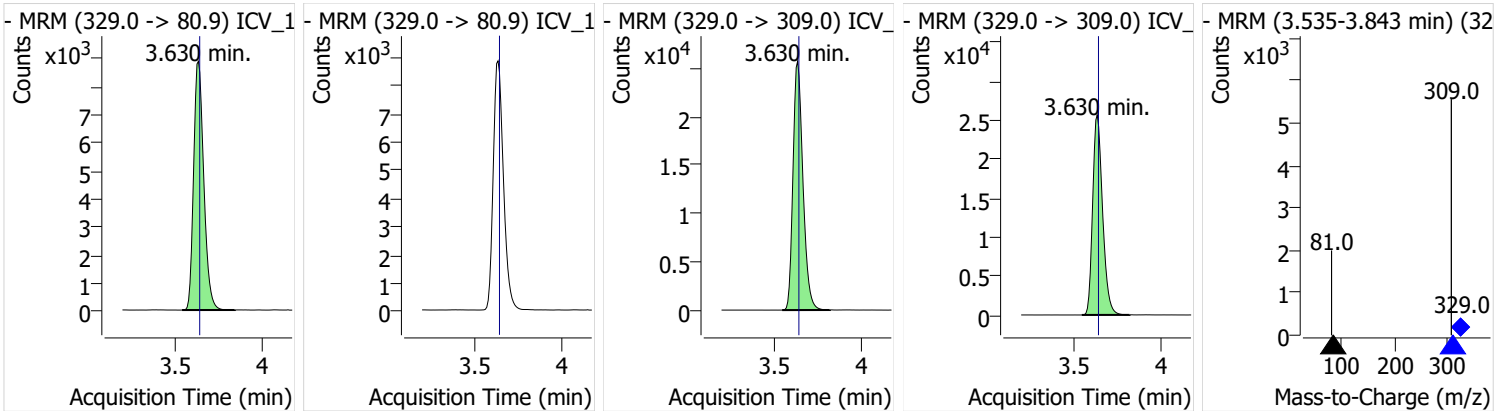
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFHxA	3.863	870561	26125.02		13C5-PFHxA - ISTD	3.861	217759	9.8331	ng/ml			
313.0 -> 118.9			3428.86	3.4								
PFHxS	5.284	245062	22705.00		13C3-PFHxS - ISTD	5.284	53813	10.0873	ng/ml	✔	3	AMS 05/09/24
398.9 -> 99.0			19698.03	44.4								
PFMBA	3.280	508054	145695.49		13C5-PFPeA - ISTD	2.961	404755	9.1168	ng/ml			
PFMPA	2.267	86167	21375.67		13C5-PFPeA - ISTD	2.961	404755	9.7267	ng/ml			
PFNA	5.714	1116924	31190.22		13C9-PFNA - ISTD	5.713	141328	9.8288	ng/ml			
463.0 -> 219.0			18245.49	21.5								
PFNS	6.826	163676	10919.53		13C8-PFOS - ISTD	6.354	41726	9.6356	ng/ml			
549.0 -> 98.8			24498.37	52.9								
PFOA	5.190	1024177	8849.92		13C8-PFOA - ISTD	5.189	238314	8.5600	ng/ml	✔	3	AMS 05/09/24
413.0 -> 169.0			19622.32	24.8								
PFOS	6.355	180565	21452.47		13C8-PFOS - ISTD	6.354	41726	8.3261	ng/ml	✔	3	AMS 05/09/24
499.0 -> 99.0			8599.62	45.0								
PFOSA	7.753	292875	8417.21		13C8-PFOSA - ISTD	7.751	72239	9.1822	ng/ml	✔	3	AMS 05/09/24
497.9 -> 478.0			4467.74	3.1								
PFPeA	2.962	801104	13537.01		13C5-PFPeA - ISTD	2.961	404755	9.7999	ng/ml			
263.0 -> 69.0			921.84	0.3								
PFPeS	4.617	278601	28818.33		13C3-PFHxS - ISTD	5.284	53813	9.9907	ng/ml			
349.0 -> 98.9			23733.12	46.3								
PFTeDA	7.894	814488	8877.90		13C2-PFTeDA - ISTD	7.893	100952	10.0273	ng/ml			
713.0 -> 168.9			8732.70	7.8								
PFTrDA	7.499	705794	1913.70		13C2-PFDoA - ISTD	7.078	111228	8.9862	ng/ml			
663.0 -> 168.9			4851.74	13.3								
PFUnA	6.654	783165	7741.83		13C7-PFUnA - ISTD	6.653	112806	8.6383	ng/ml			
563.0 -> 269.1			8061.73	18.0								
TDCA	6.175	50043	2133.97					-	ng/ml			
499.0 -> 99.0			1000.27	23.8								
13C2-8:2FTS	5.983	21290	5076.80		18O2-PFHxS	5.283	53749	6.0261	ng/ml			
529.0 -> 509.0			24910.72	290.6								
13C2-4:2FTS	3.630	36597	3862.29		18O2-PFHxS	5.283	53749	5.6897	ng/ml			

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
329.0 -> 309.0			29124.35	282.7								
13C2-6:2FTS	4.966	25050	6348.44		18O2-PFHxS	5.283	53749	5.7634	ng/ml			
429.0 -> 409.0			30284.41	369.0								
13C5-PFHxA	3.861	217759	21584.65		13C2-PFHxA	3.861	214635	2.4620	ng/ml			
318.0 -> 120.0			603.98	2.0								
13C6-PFDA	6.197	129690	13353.71		13C2-PFDA	6.197	127824	1.2859	ng/ml			
13C7-PFUnA	6.653	112806	11801.77		13C2-PFDA	6.197	127824	1.3816	ng/ml			
13C8-PFOA	5.189	238314	26803.57		13C4-PFOA	5.189	34594	2.5128	ng/ml			
13C8-PFOS	6.354	41726	8099.40		13C4-PFOS	6.355	44522	2.6068	ng/ml			
507.0 -> 99.0			5005.68	50.8								
13C8-PFOSA	7.751	72239	692911.55		13C4-PFOS	6.355	44522	2.5661	ng/ml			
13C9-PFNA	5.713	141328	17214.01		13C5-PFNA	5.713	163721	1.2658	ng/ml			
13C5-PFPeA	2.961	404755	15603.38		13C2-PFHxA	3.861	214635	5.1063	ng/ml			
13C2-PFDoA	7.078	111228	5734.18		13C2-PFDA	6.197	127824	1.3199	ng/ml			
13C4-PFHpA	4.582	256775	22430.71		13C2-PFHxA	3.861	214635	2.5954	ng/ml			
13C4-PFBA	1.757	663160	129763.06		13C3-PFBA	1.760	306468	9.9666	ng/ml			
13C3-PFHxS	5.284	53813	12996.15		18O2-PFHxS	5.283	53749	2.4516	ng/ml			
402.0 -> 99.0			9230.22	50.5								
13C3-PFBS	3.790	73982	14673.20		18O2-PFHxS	5.283	53749	2.5468	ng/ml			
301.9 -> 98.9			4930.32	35.2								
13C3-HFPODA	4.128	267288	22783.26		13C2-PFHxA	3.861	214635	10.8040	ng/ml			
287.0 -> 185.0			14568.22	44.9								
13C2-PFTeDA	7.893	100952	11032.58		13C2-PFDA	6.197	127824	1.3912	ng/ml			
D9-NEtFOSE	9.403	349079	47930.00		13C4-PFOS	6.355	44522	29.8188	ng/ml			
D3-NMeFOSA	9.210	23677	11798.40		13C4-PFOS	6.355	44522	2.6222	ng/ml			
D3-NMeFOSAA	6.260	157924	19174.39		13C4-PFOS	6.355	44522	5.4755	ng/ml			
D5-NEtFOSA	9.555	25770	12421.49		13C4-PFOS	6.355	44522	2.7361	ng/ml			
D5-NEtFOSAA	6.463	80586	7103.51		13C4-PFOS	6.355	44522	5.5216	ng/ml			
D7-NMeFOSE	9.057	306532	147548.73		13C4-PFOS	6.355	44522	28.0183	ng/ml			

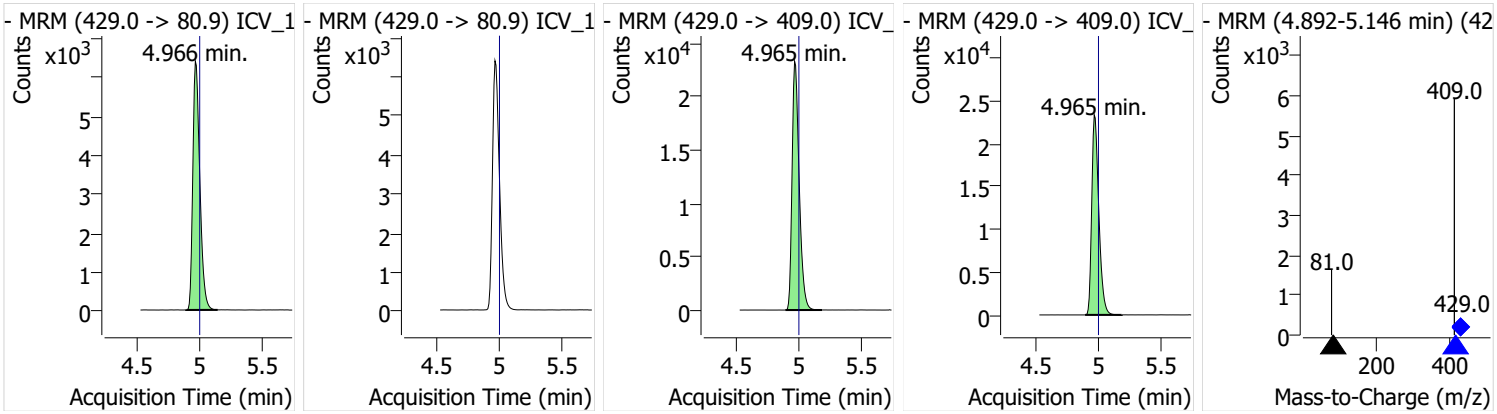
11Cl-PF3OUdS



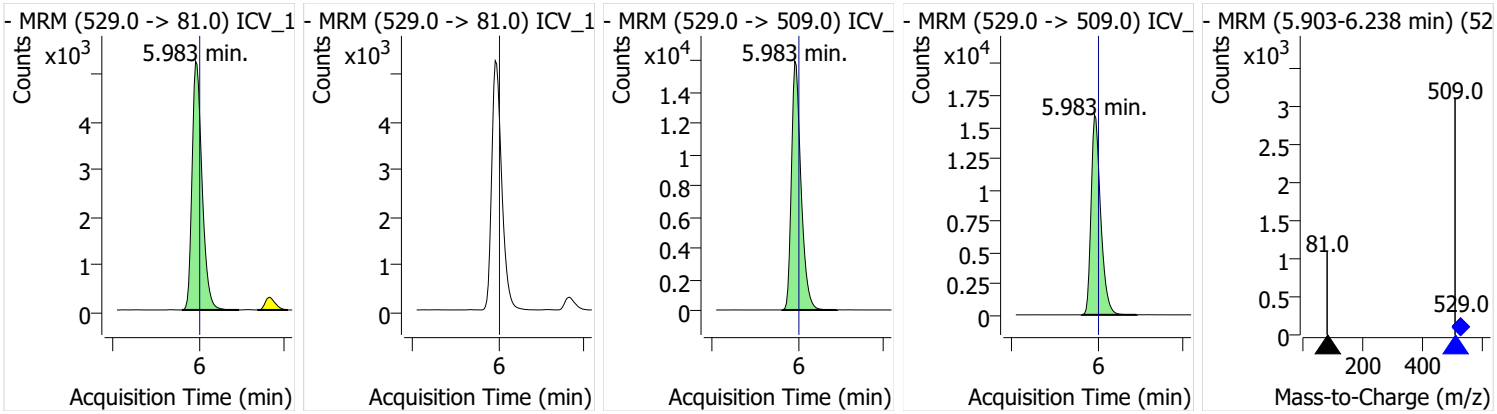
13C2-4:2FTS - ISTD



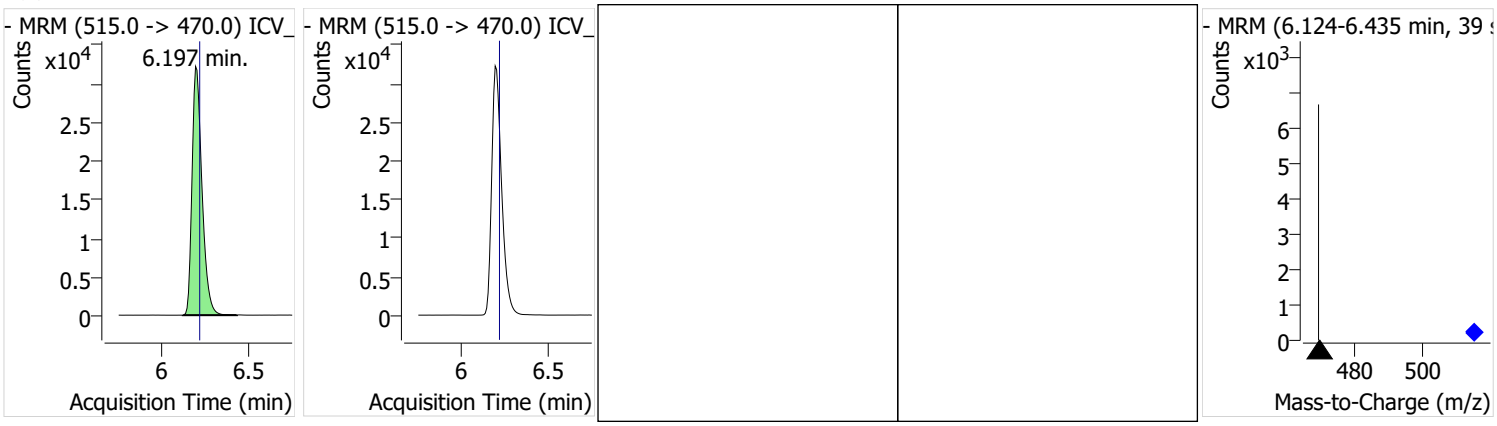
13C2-6:2FTS - ISTD



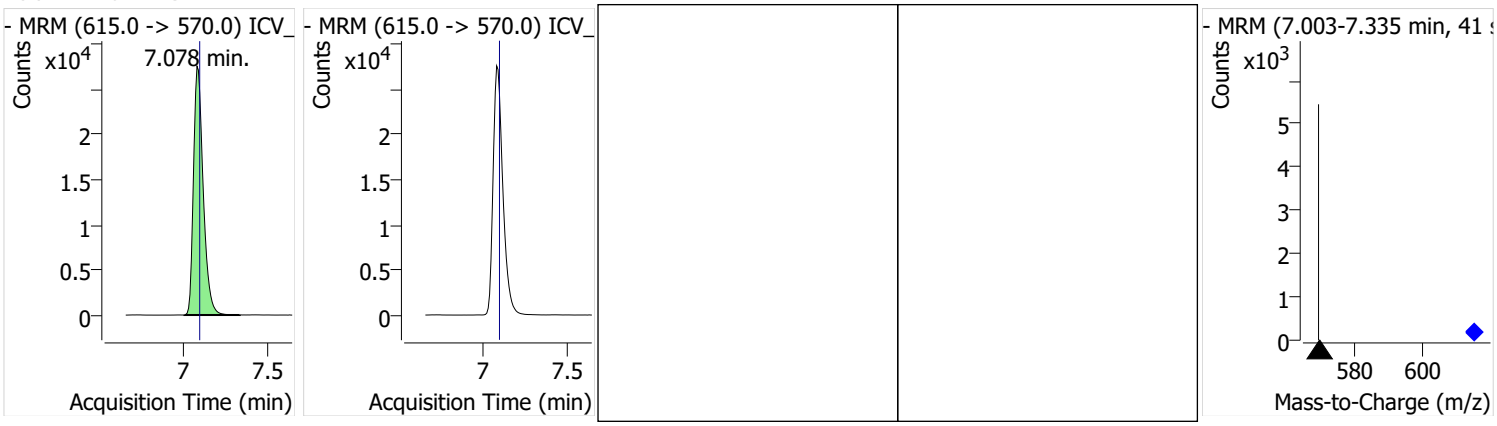
13C2-8:2FTS - ISTD



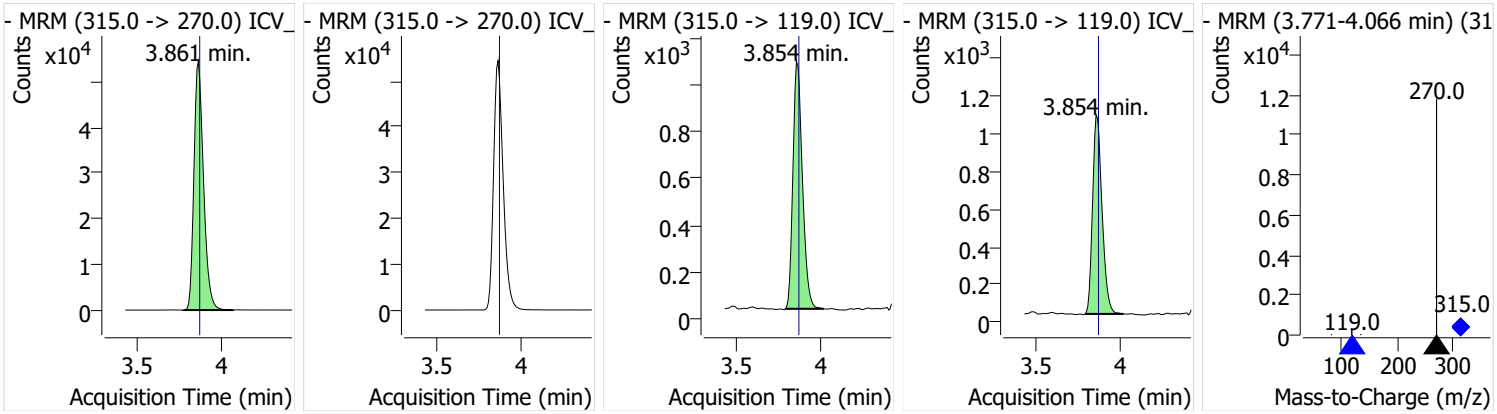
13C2-PFDA



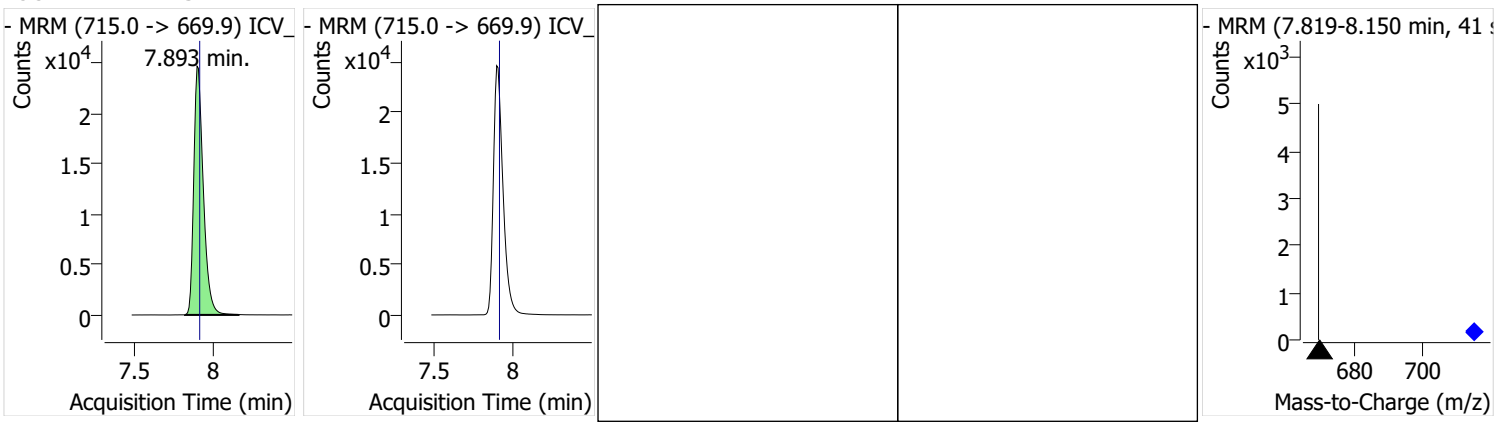
13C2-PFDoA - ISTD



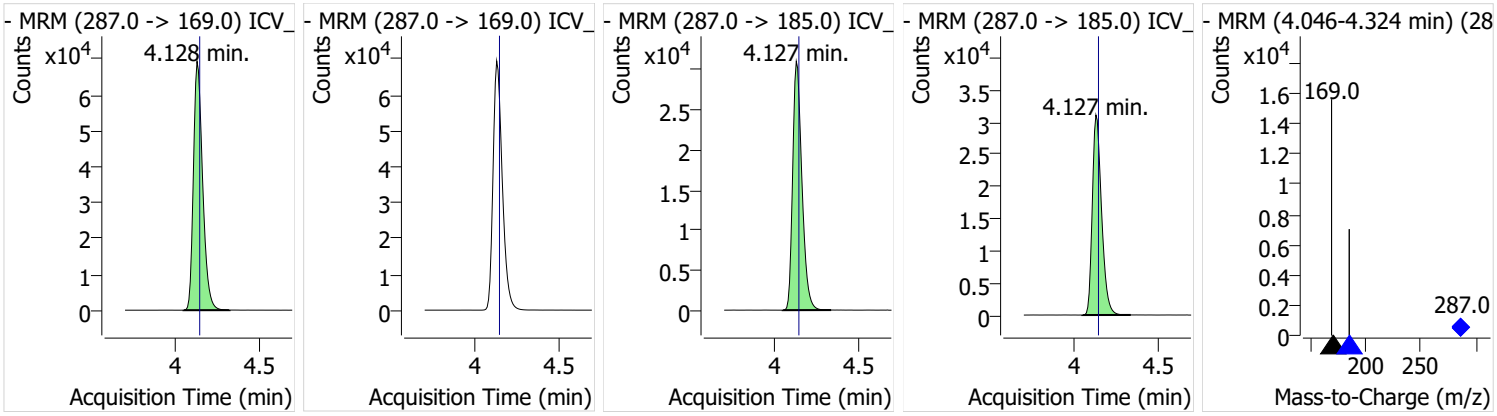
13C2-PFHxA



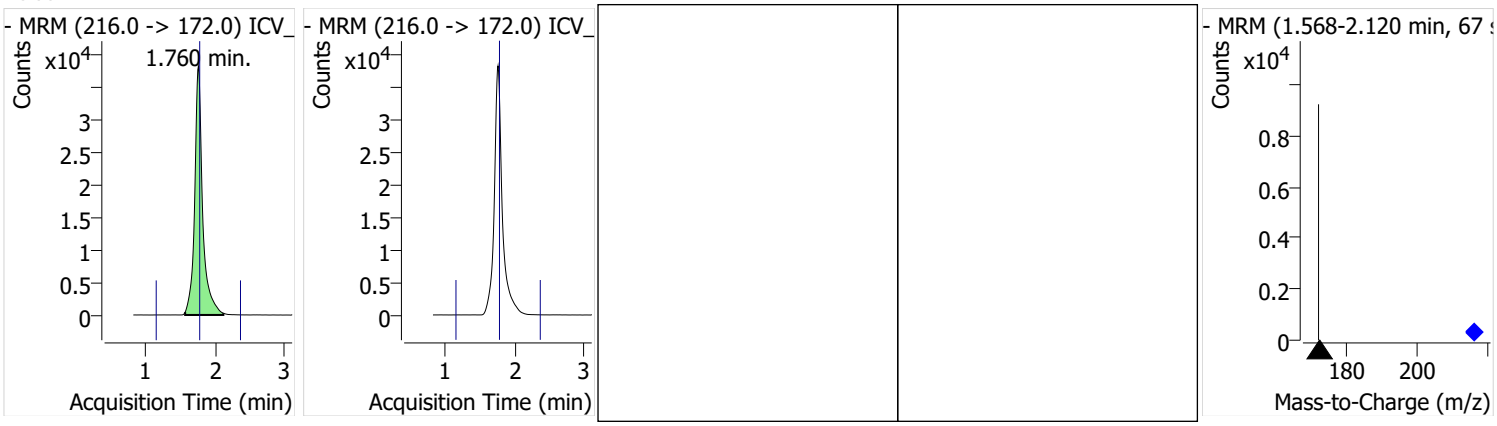
13C2-PFTeDA - ISTD



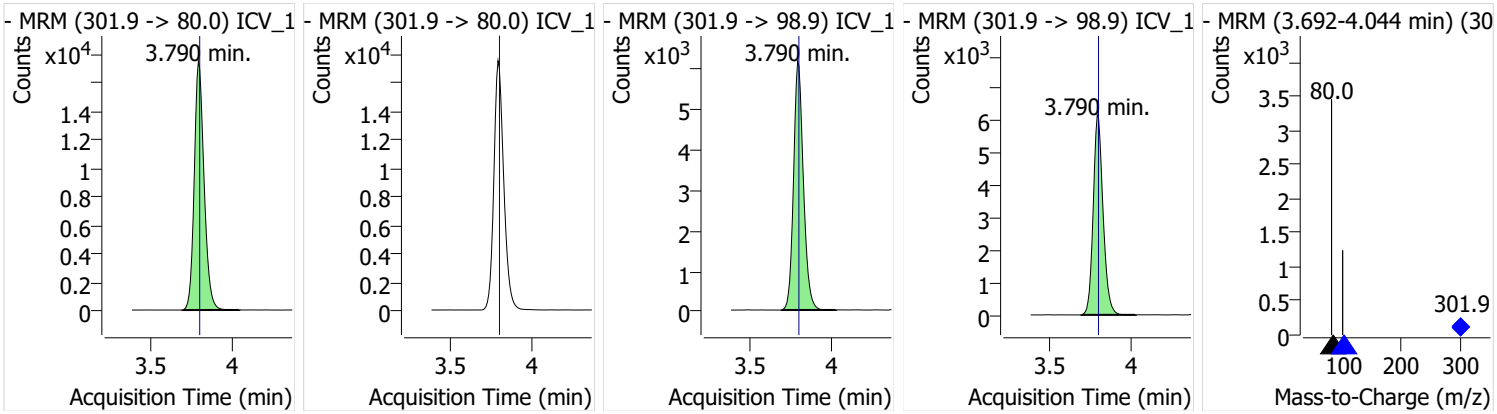
13C3-HFPODA - ISTD



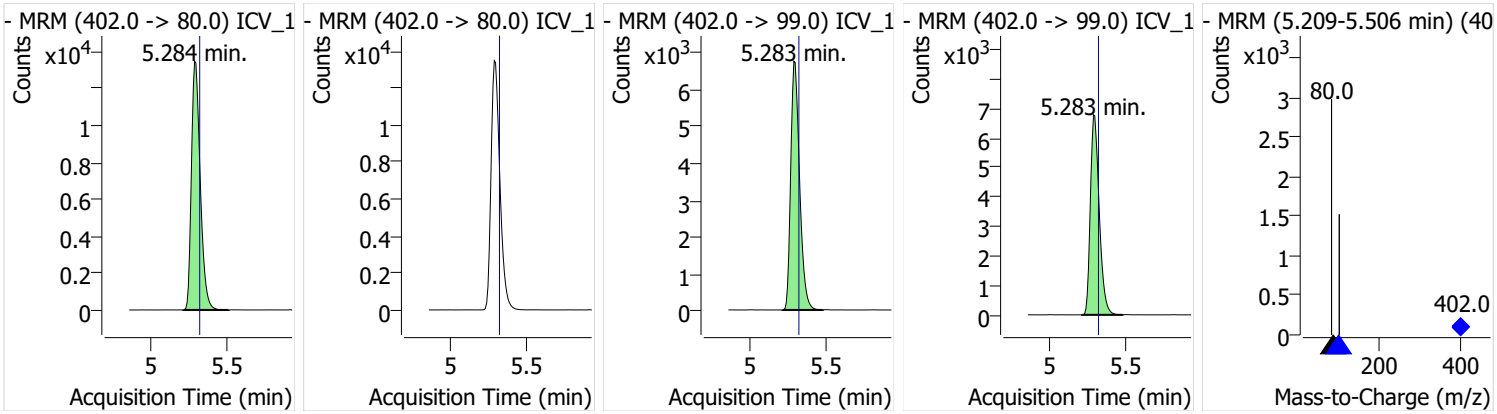
13C3-PFBA



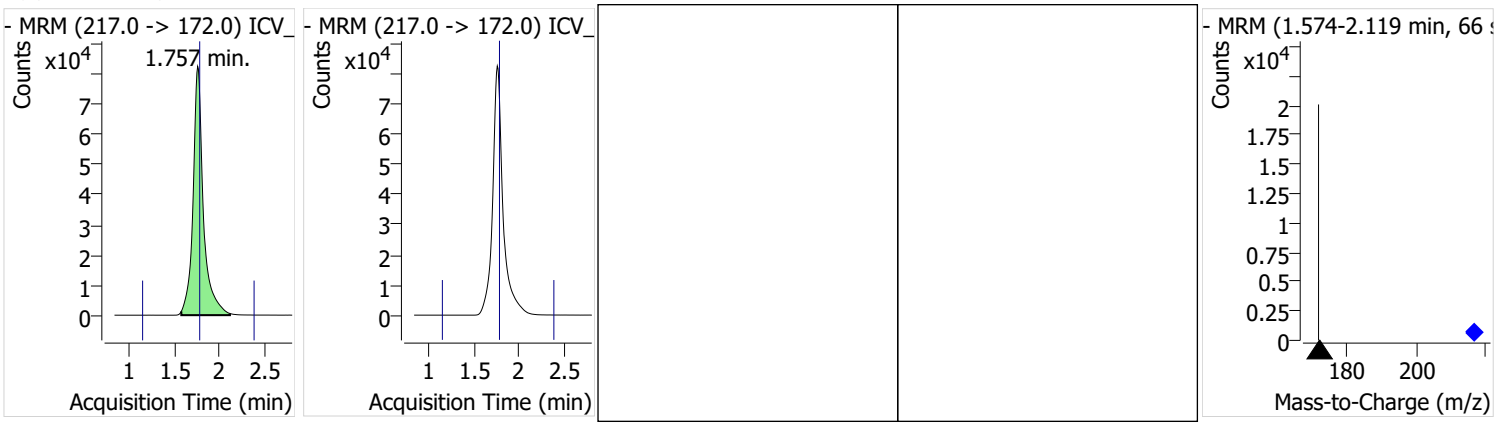
13C3-PFBS - ISTD



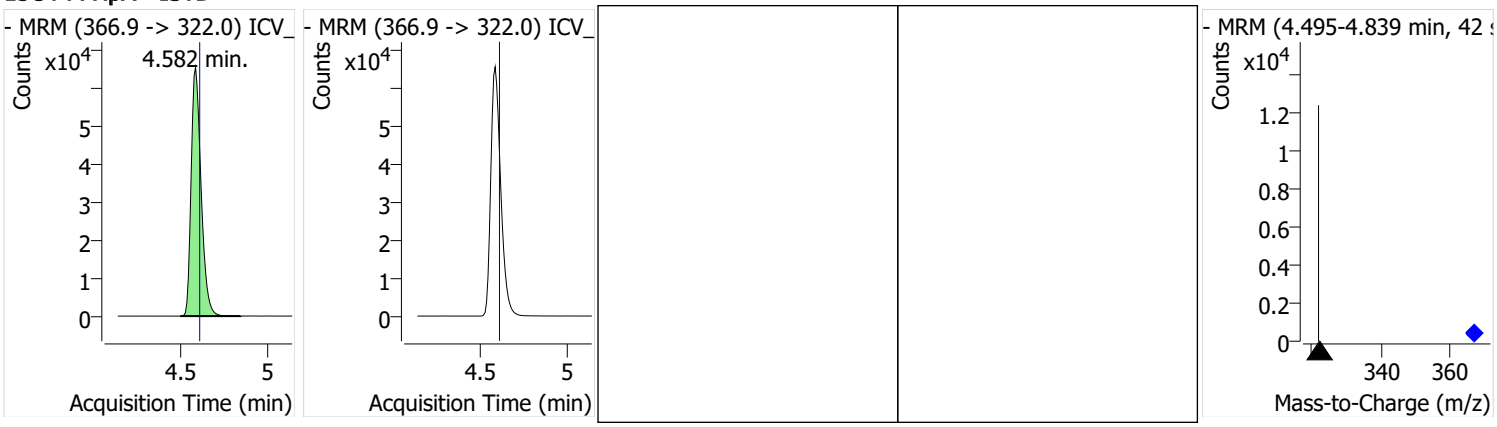
13C3-PFHxS - ISTD



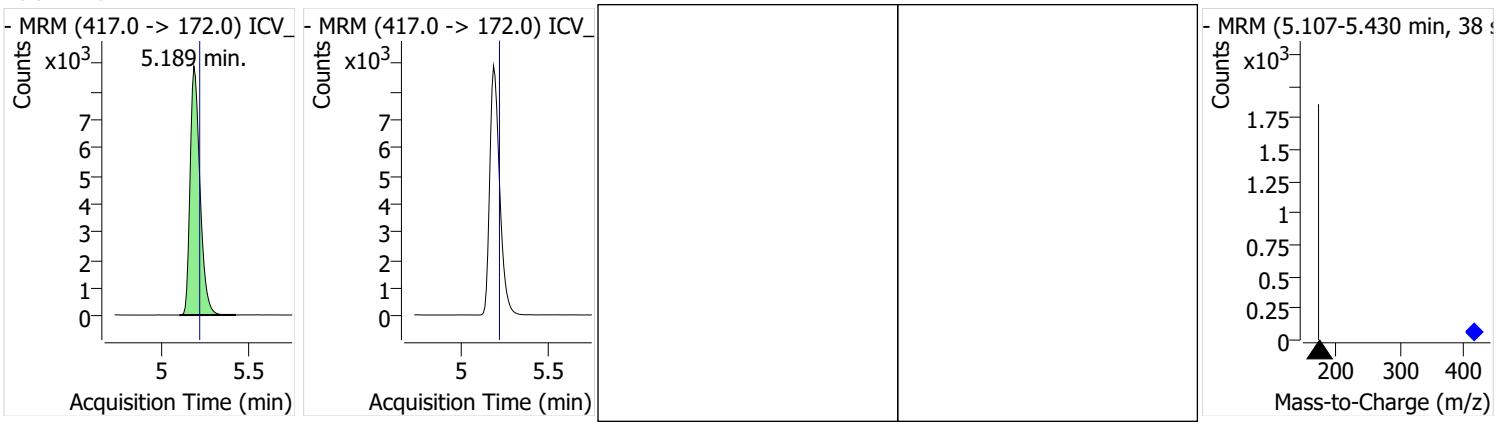
13C4-PFBA - ISTD



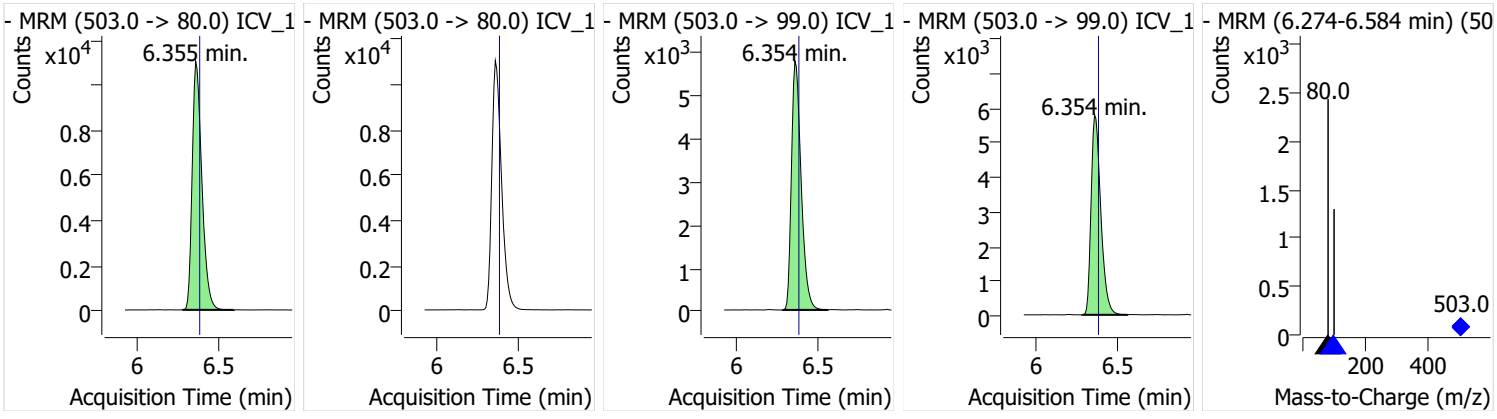
13C4-PFHpA - ISTD



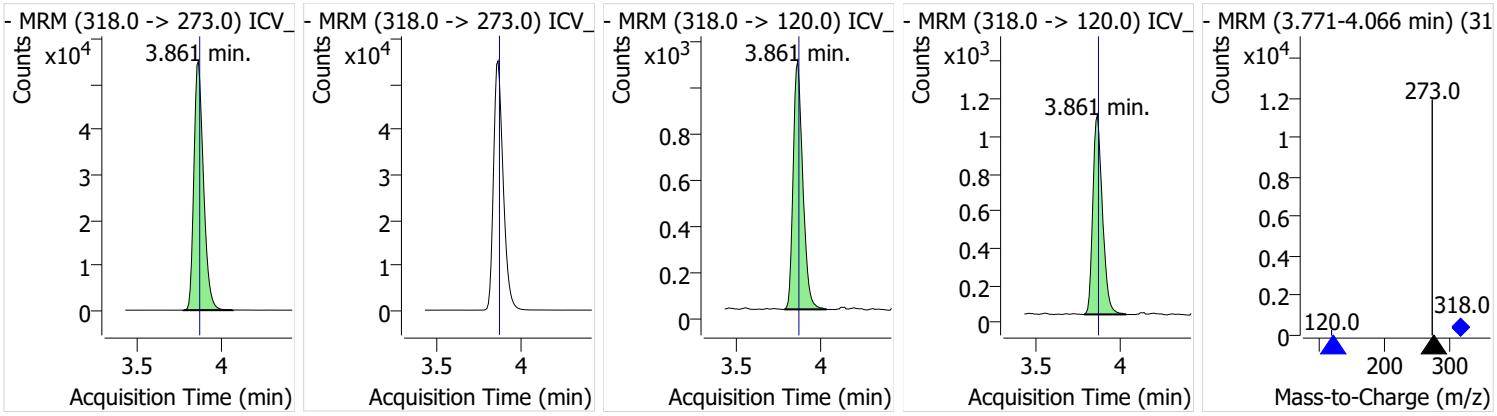
13C4-PFOA



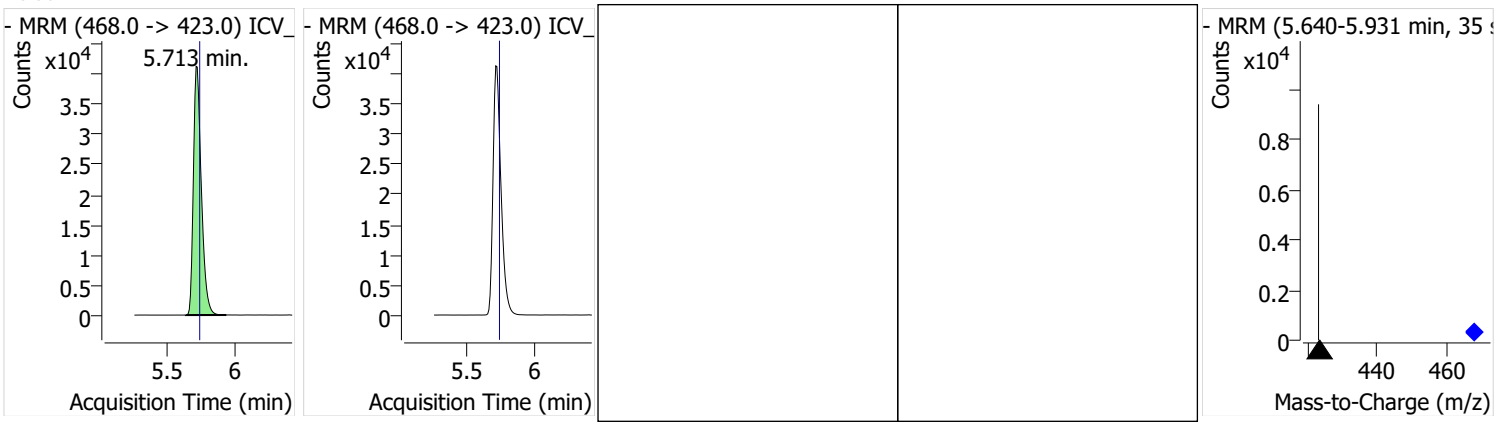
13C4-PFOS



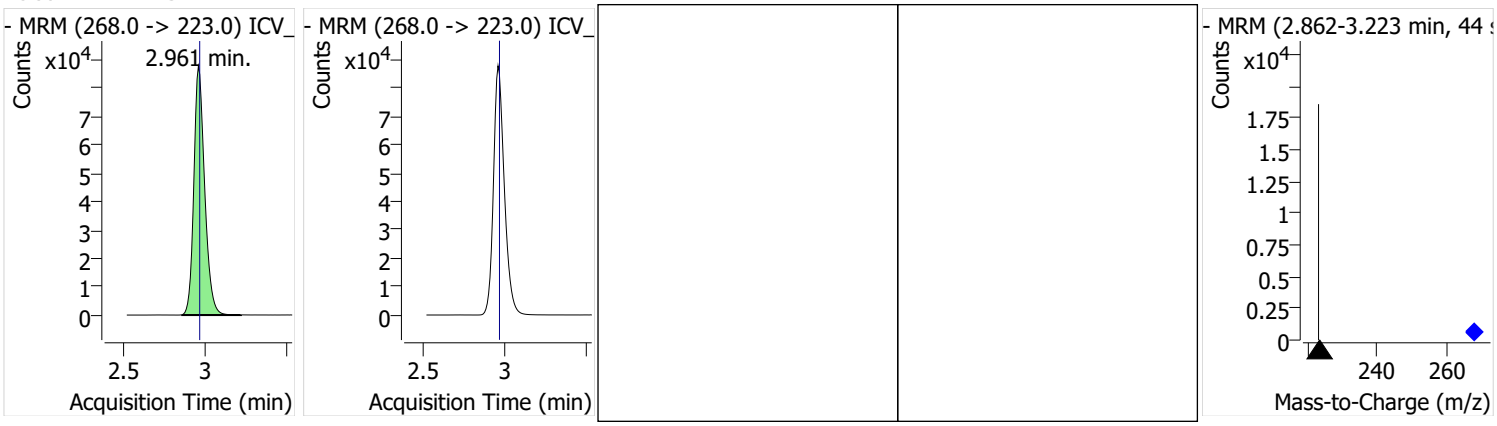
13C5-PFHxA - ISTD



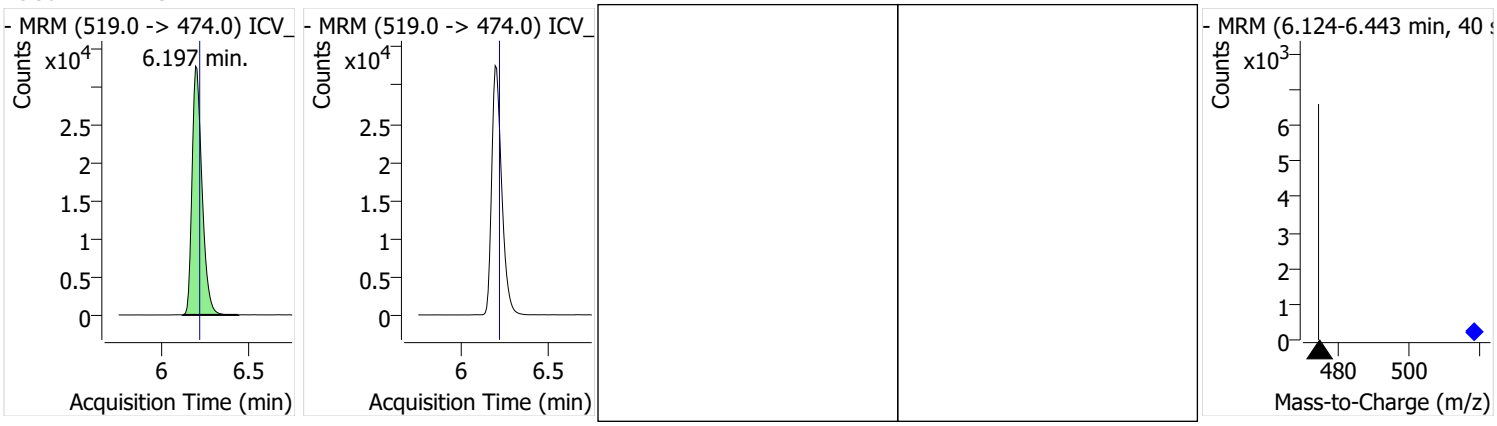
13C5-PFNA



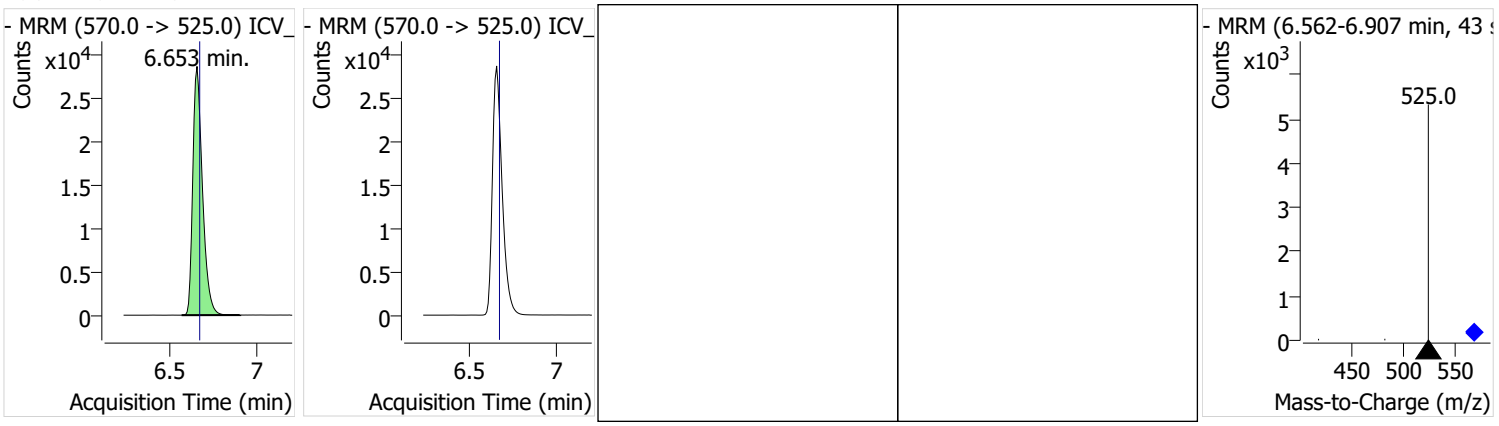
13C5-PFPeA - ISTD



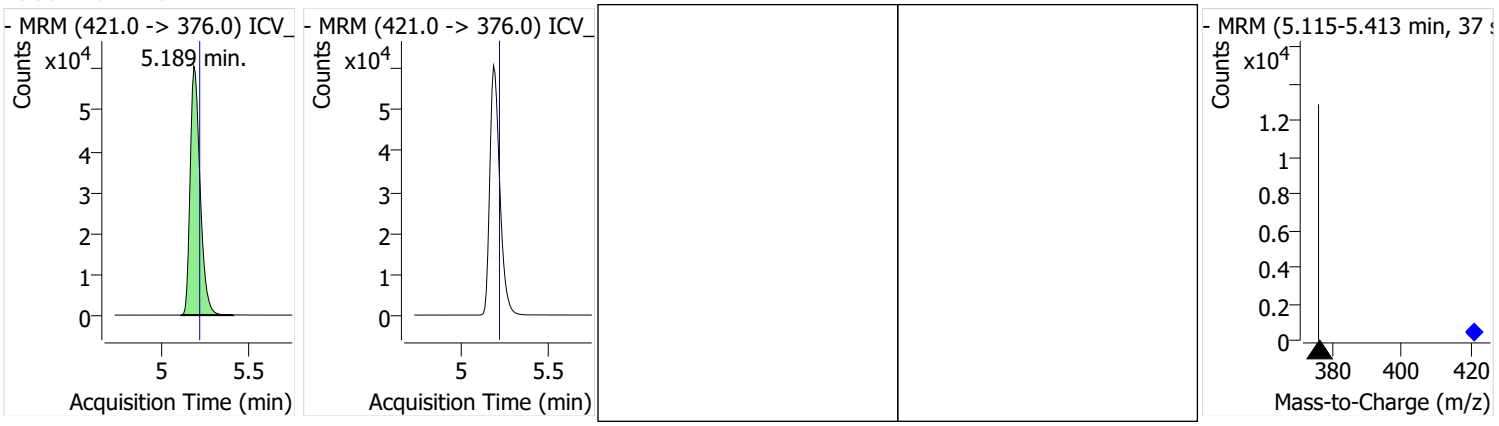
13C6-PFDA - ISTD



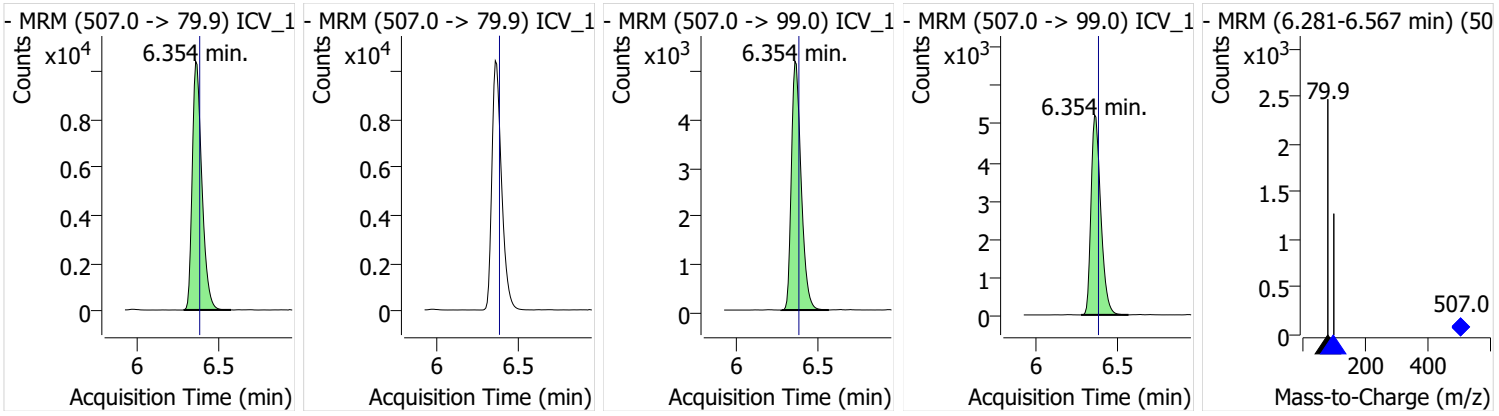
13C7-PFUnA - ISTD



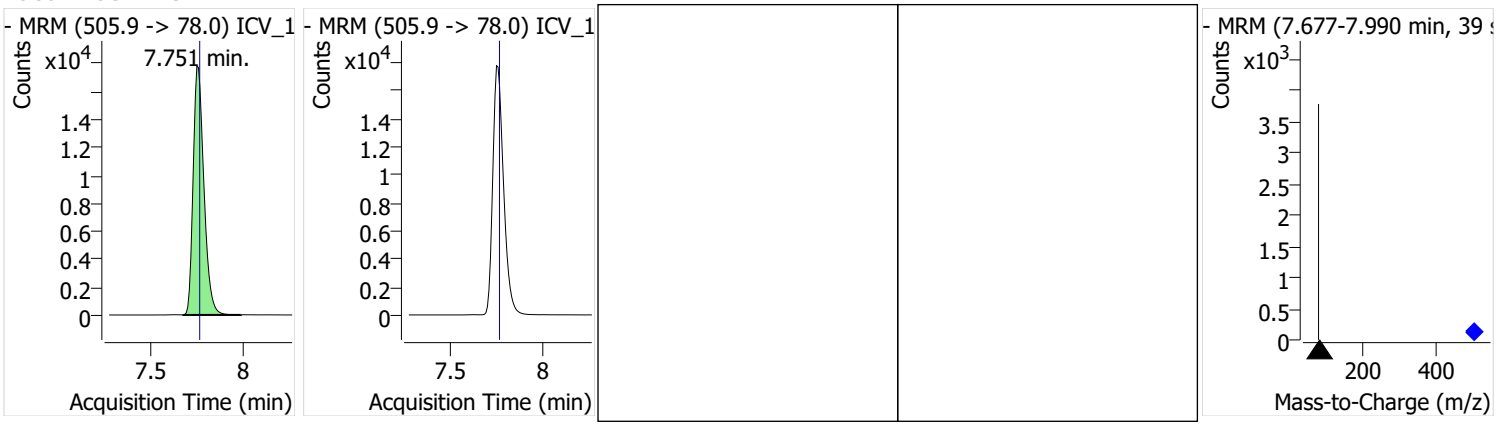
13C8-PFOA - ISTD



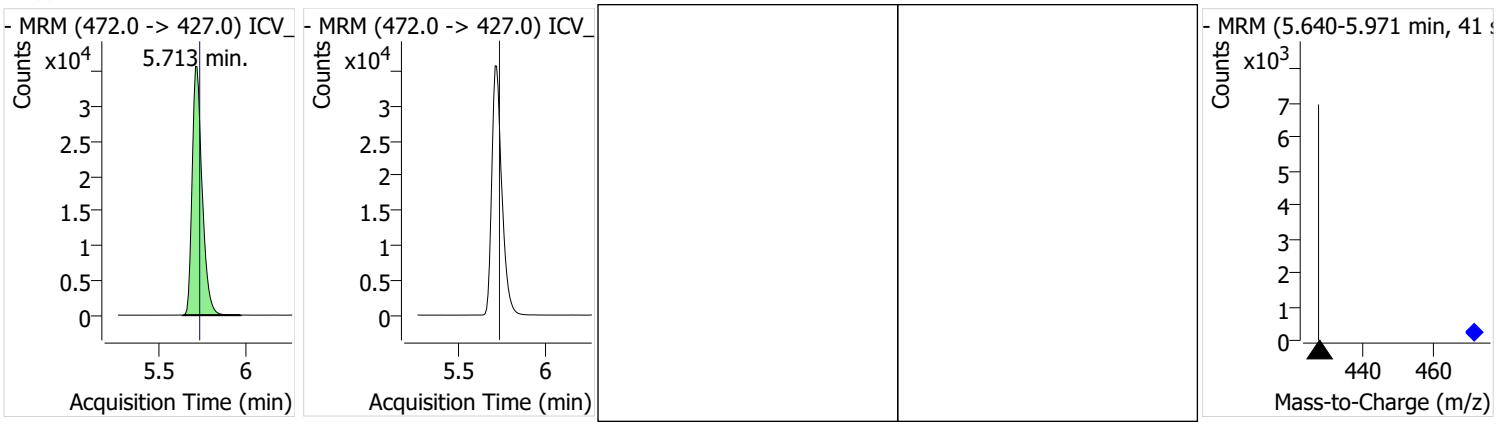
13C8-PFOS - ISTD



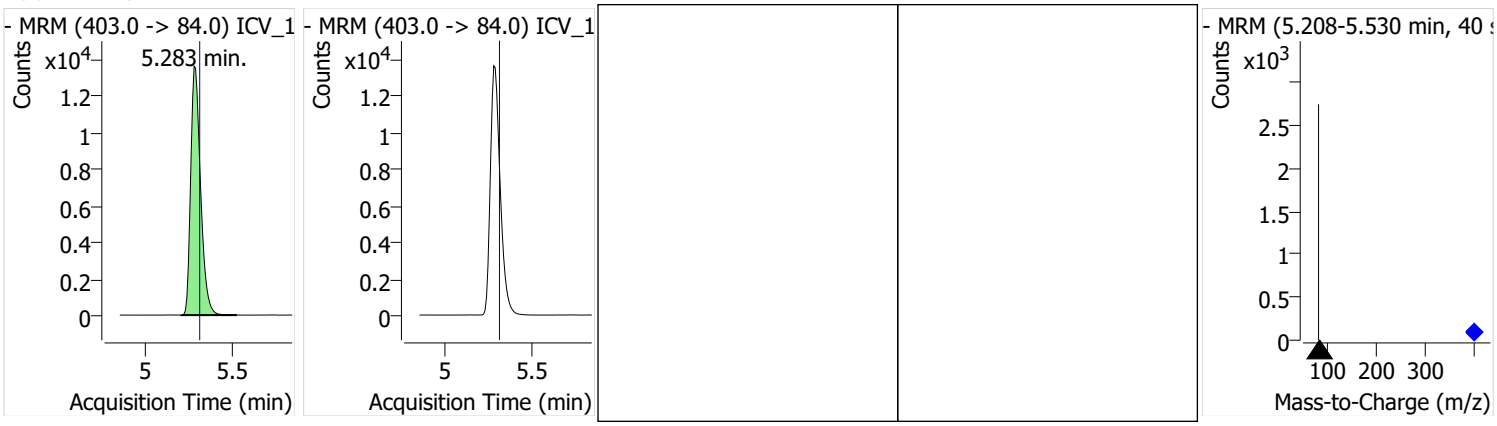
13C8-PFOSA - ISTD



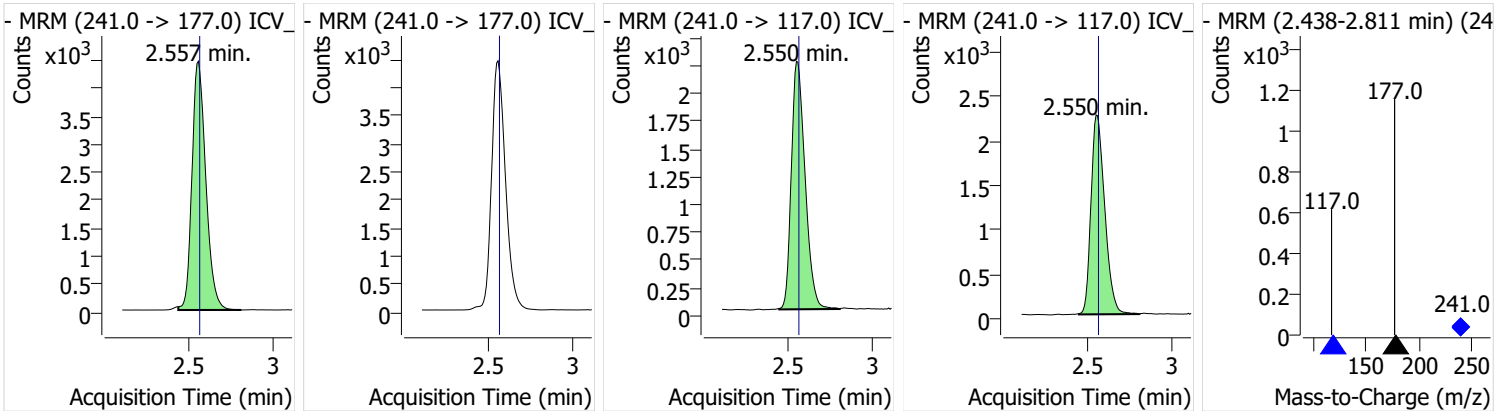
13C9-PFNA - ISTD



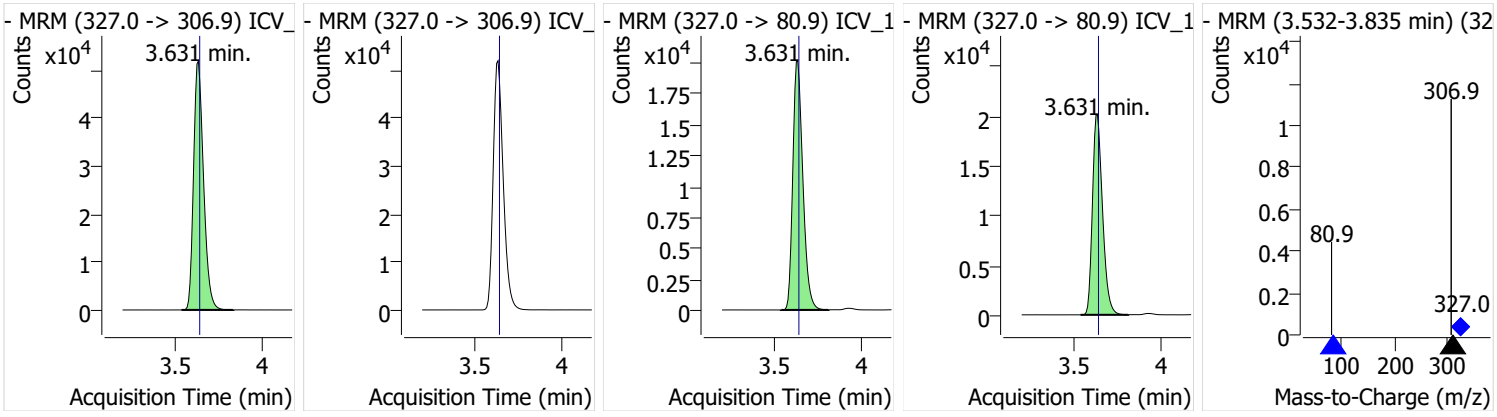
18O2-PFHxS



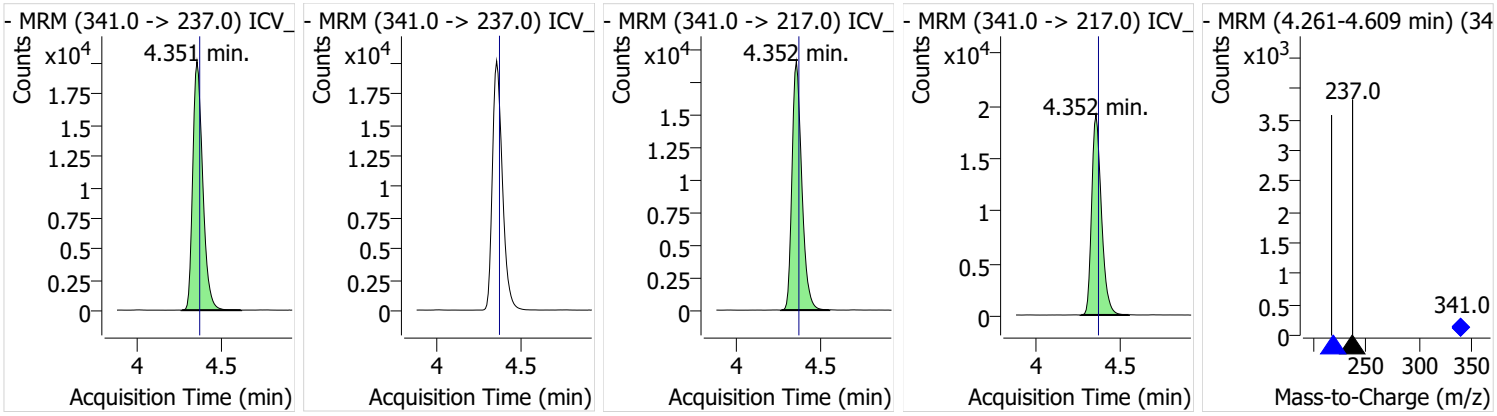
3:3FTCA



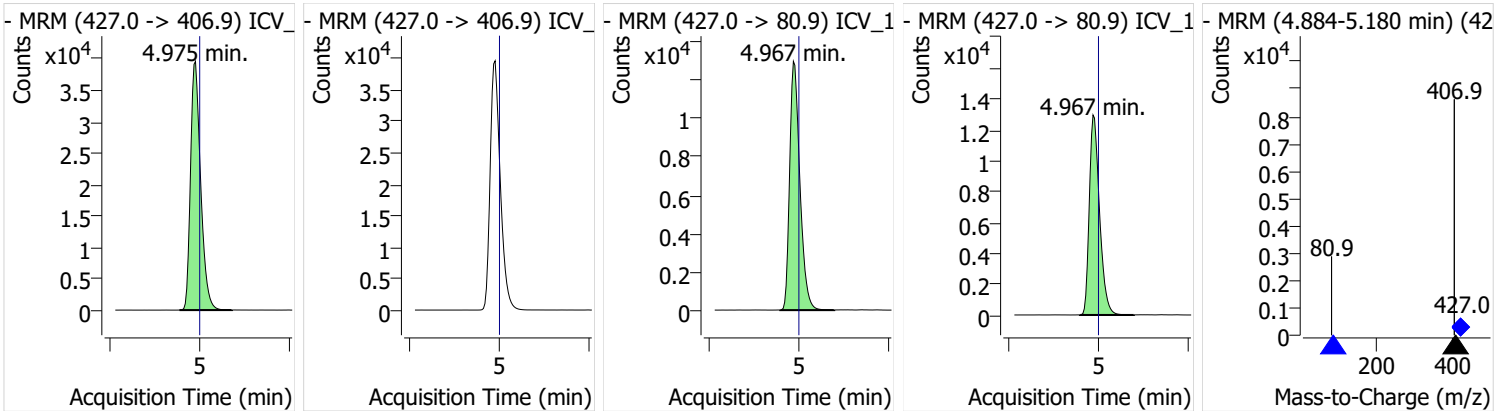
4:2FTS



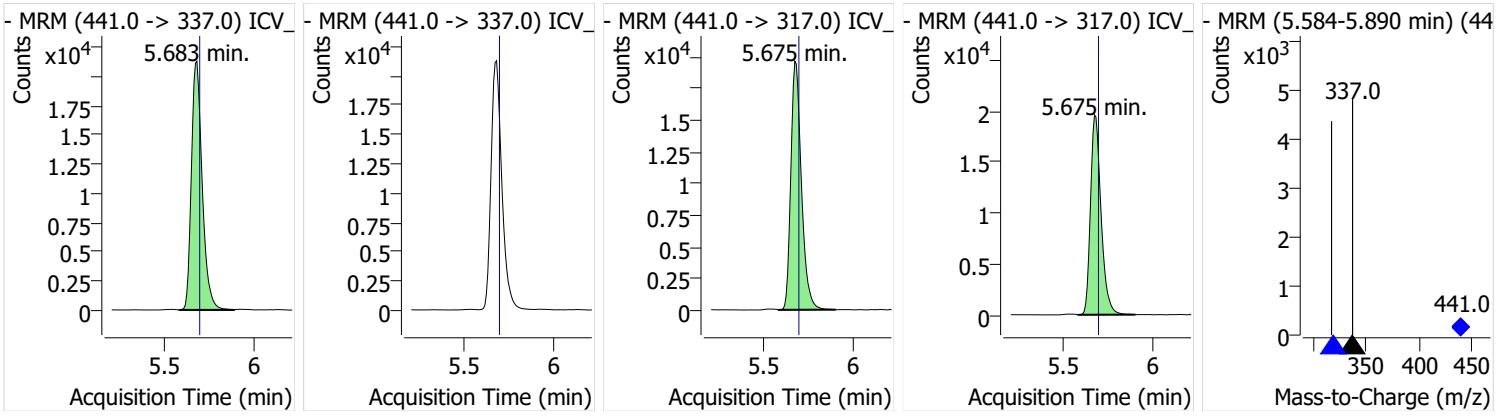
5:3FTCA



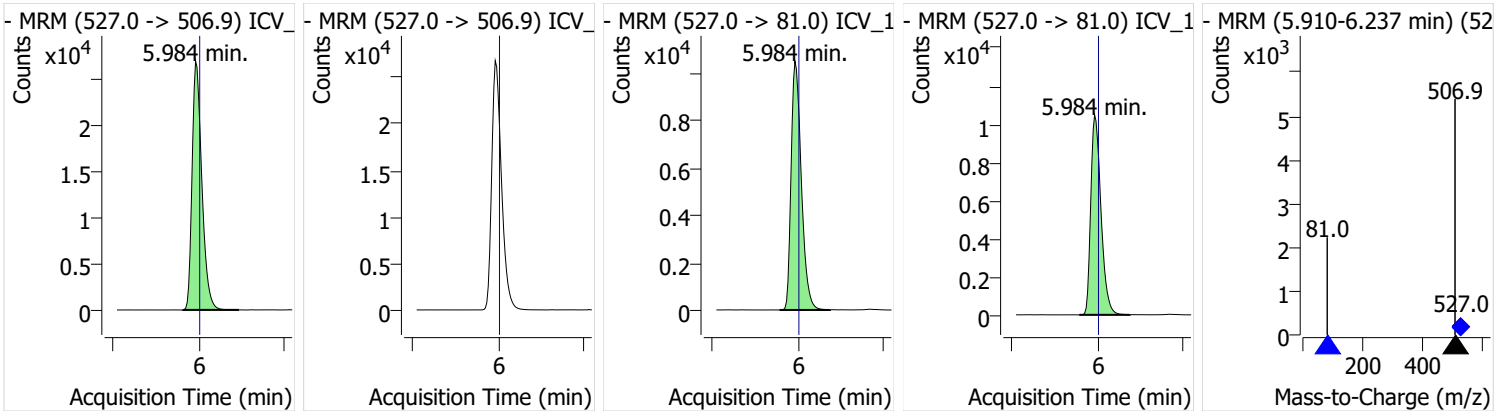
6:2FTS



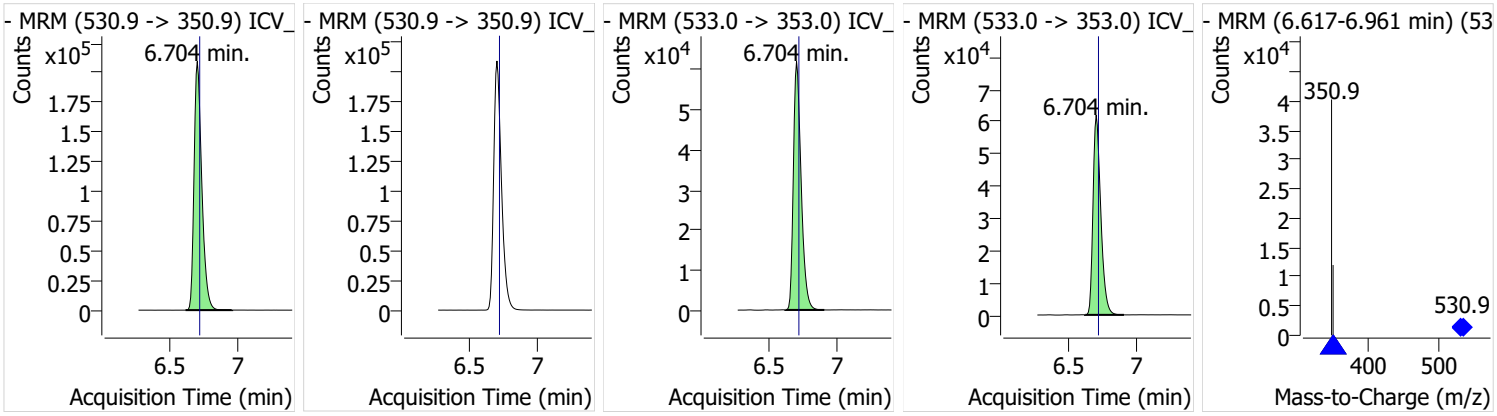
7:3FTCA



8:2FTS



9Cl-PF3ONS



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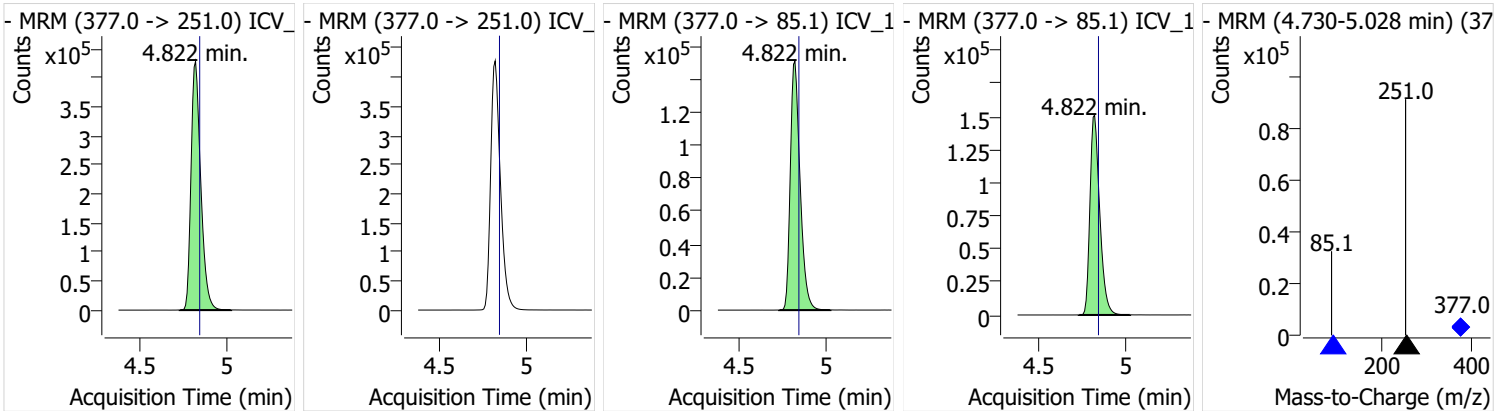
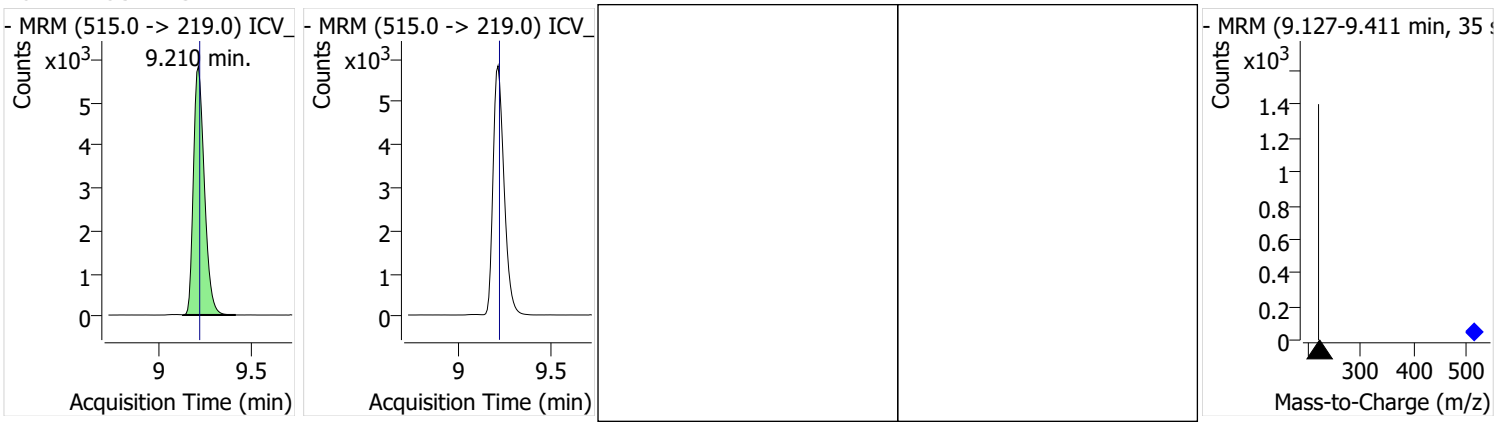
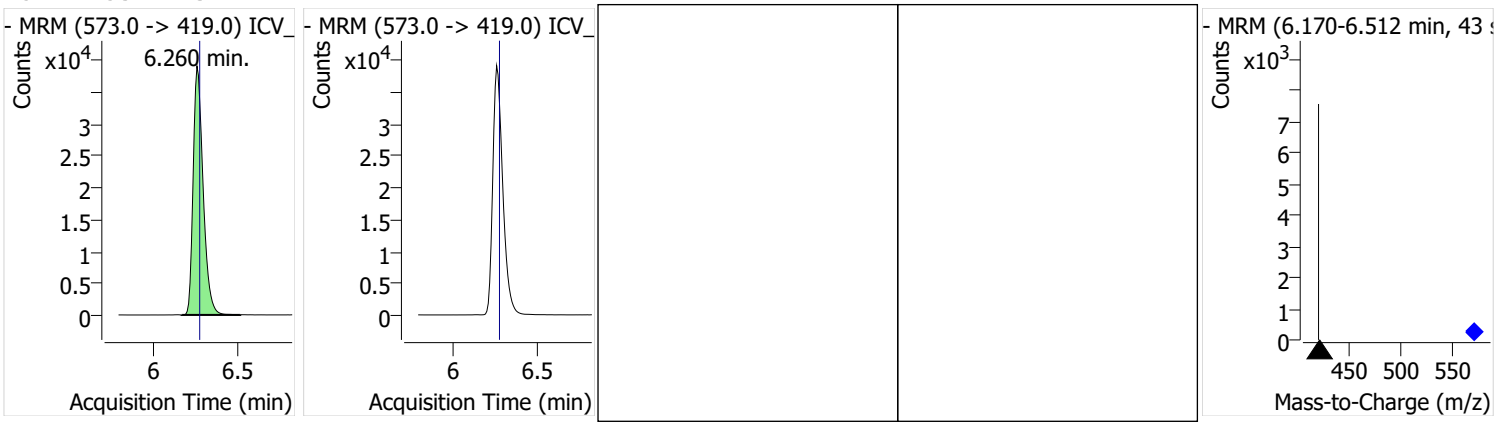


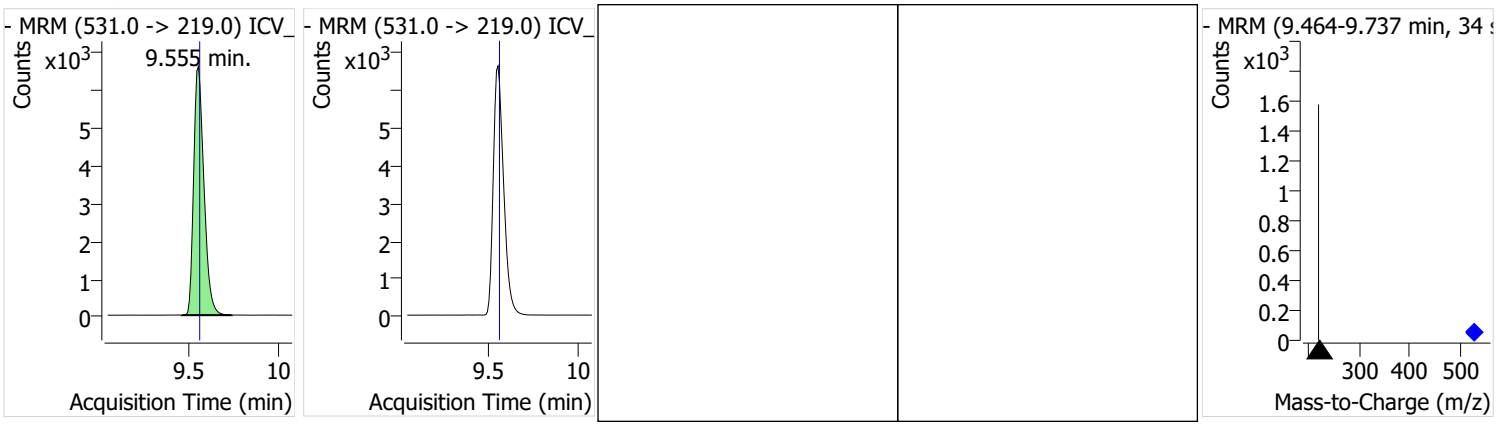
D3-NMeFOSA - ISTD



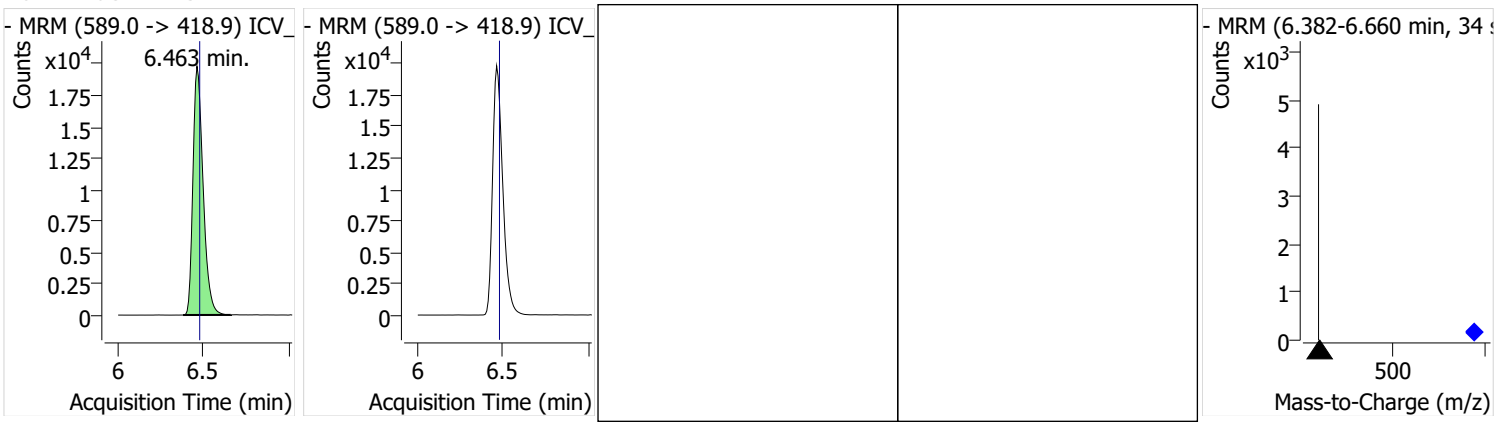
D3-NMeFOSAA - ISTD



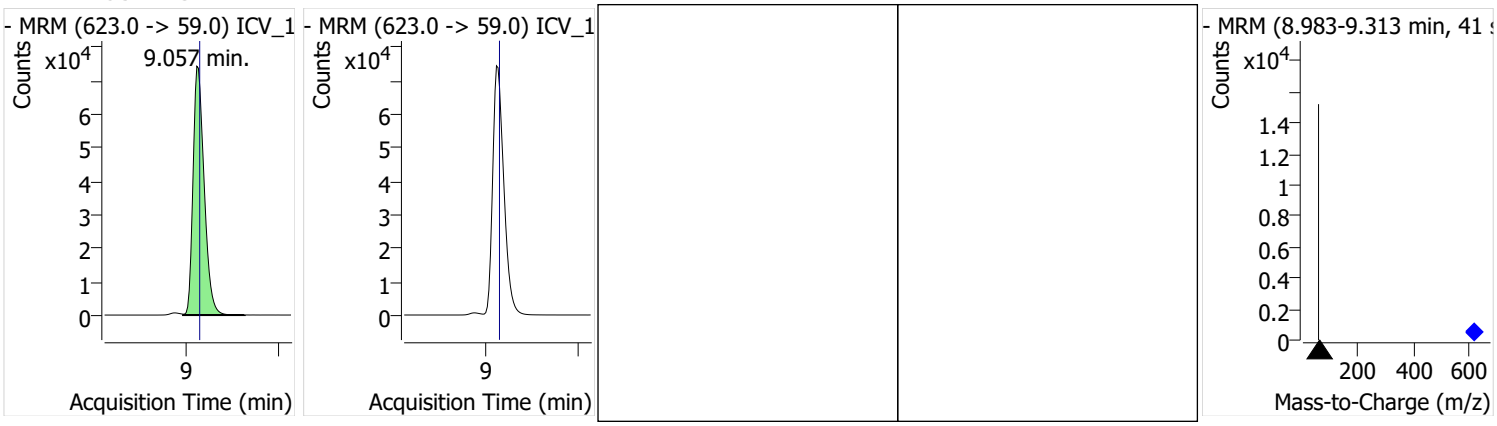
D5-NEtFOSA - ISTD



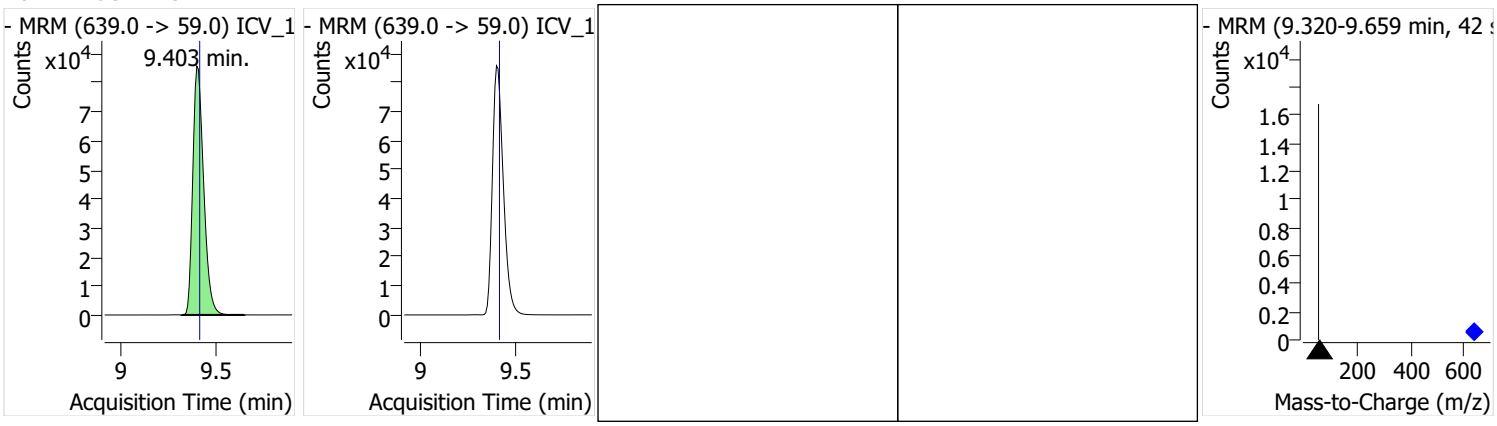
D5-NEtFOSAA - ISTD



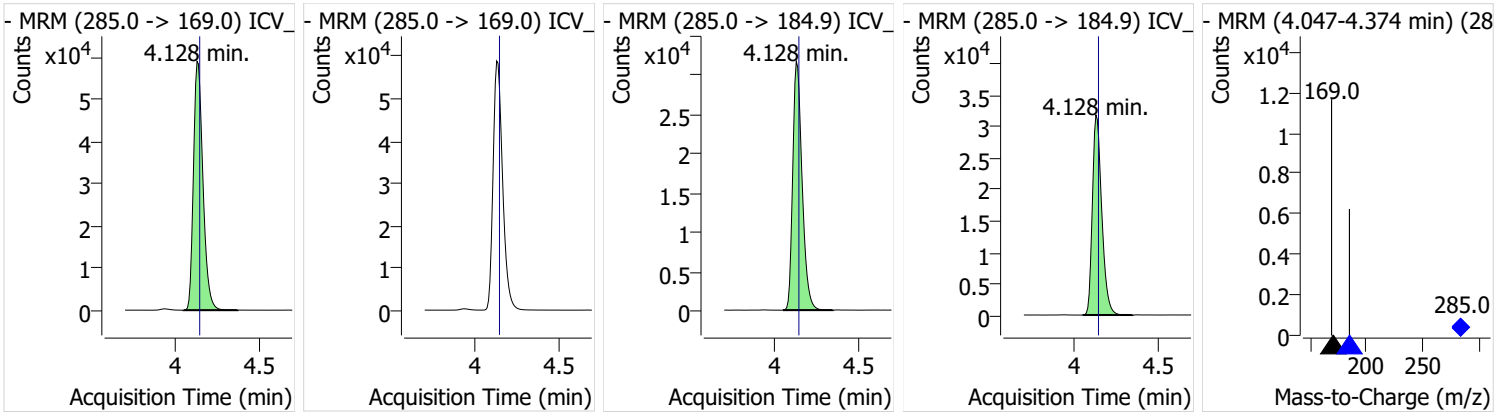
D7-NMeFOSE - ISTD



D9-NEtFOSE - ISTD



HFPO-DA



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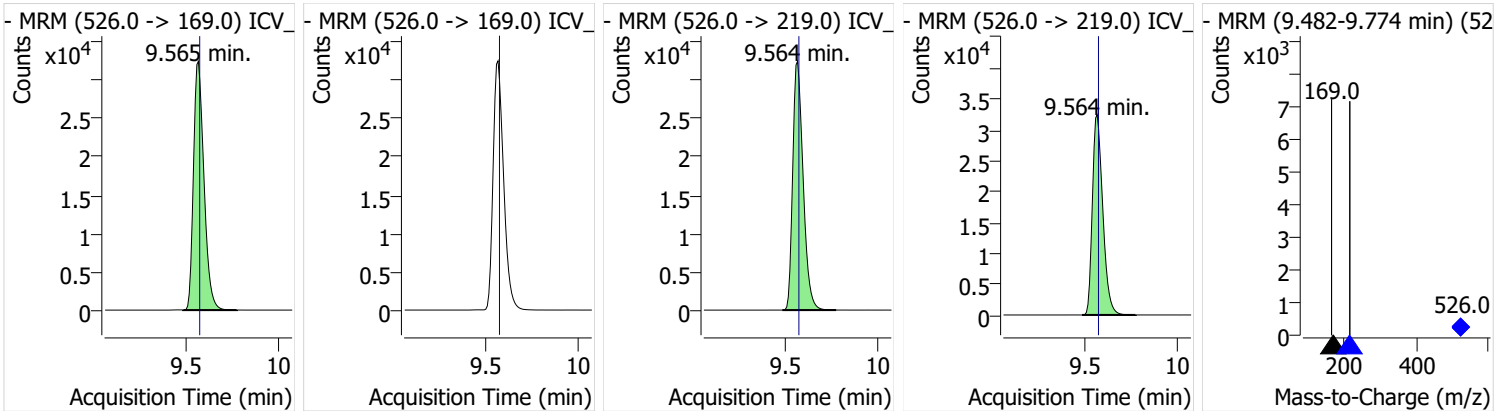

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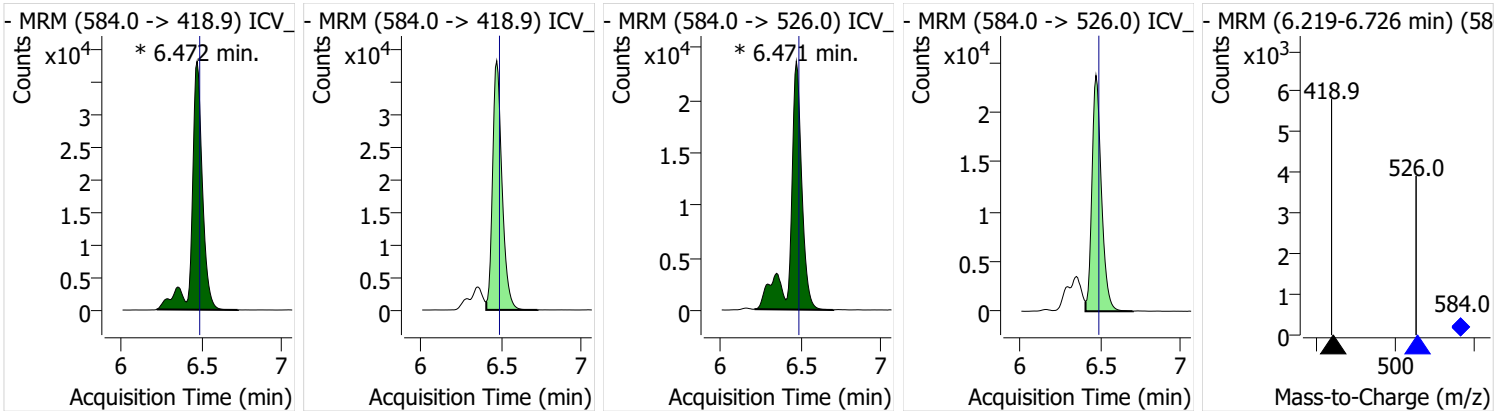

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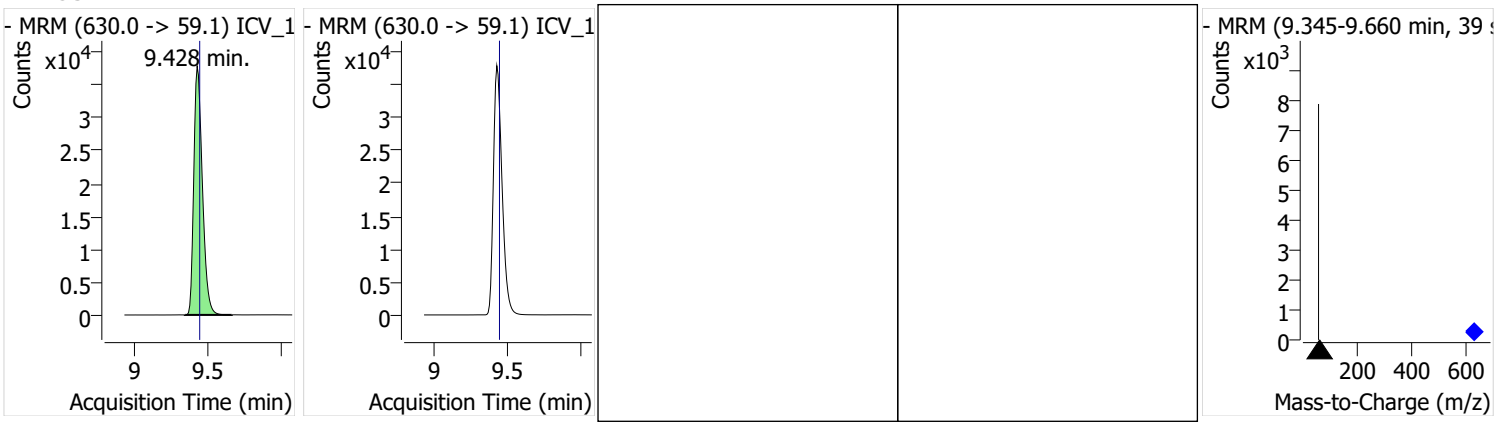

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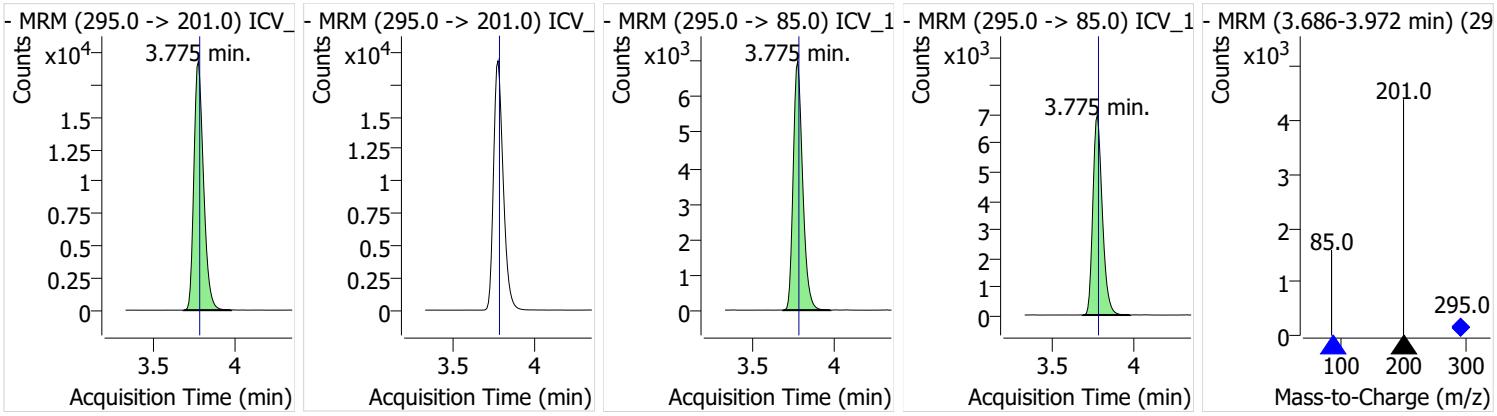

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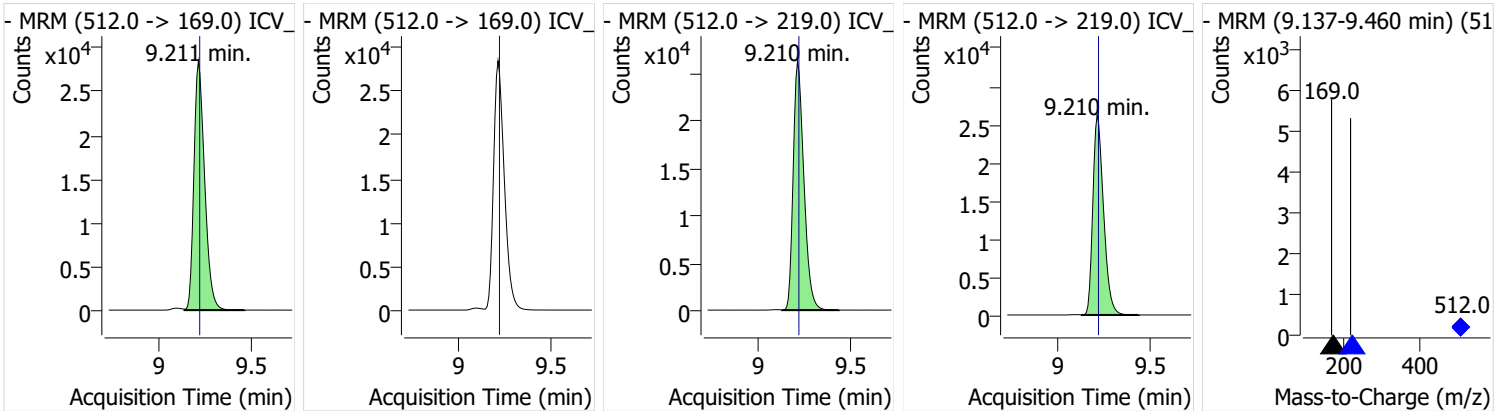

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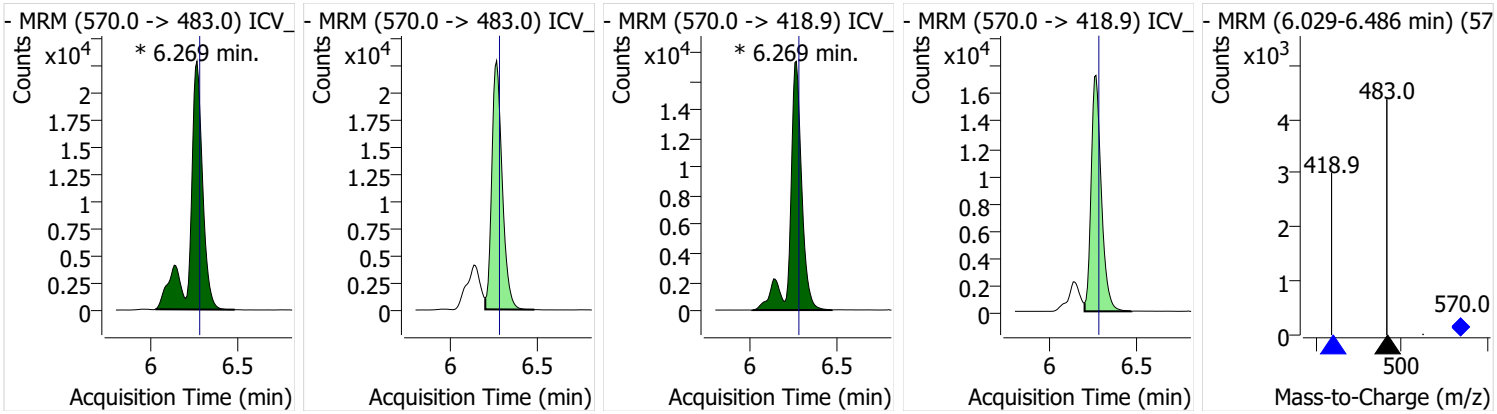

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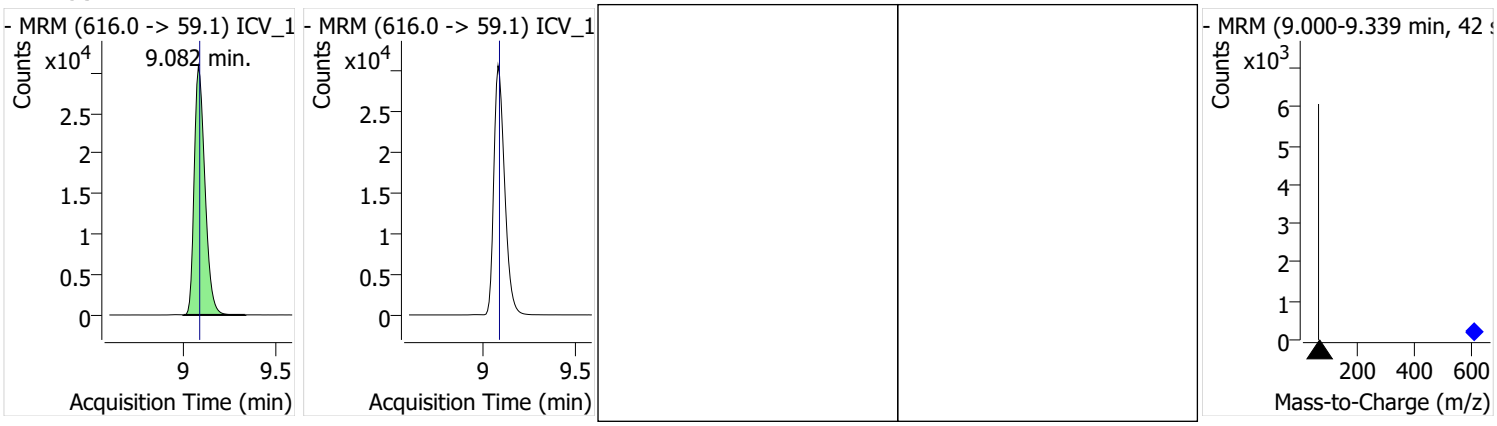

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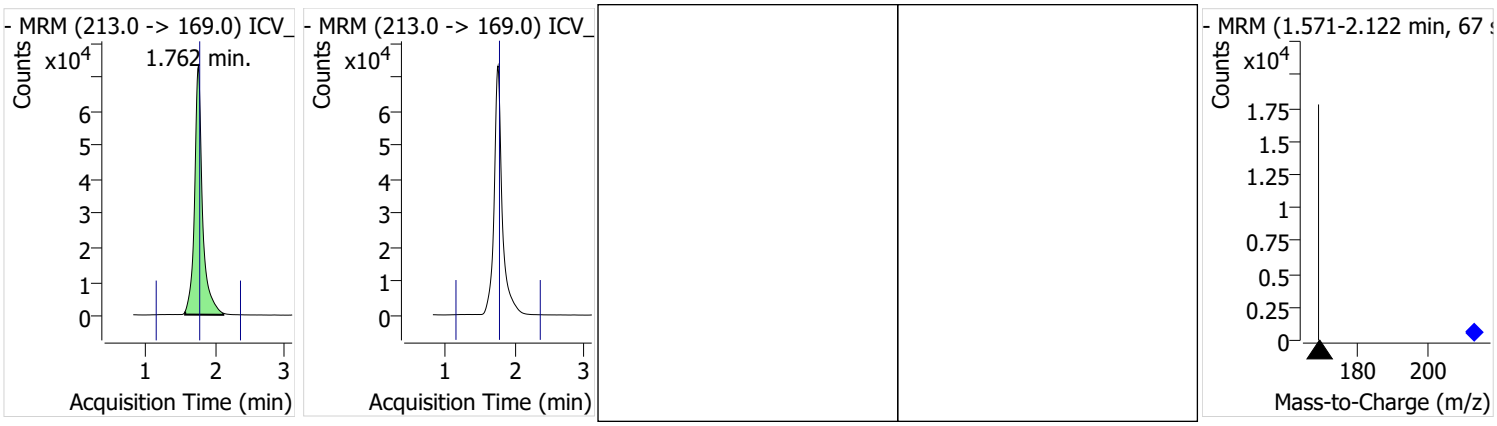

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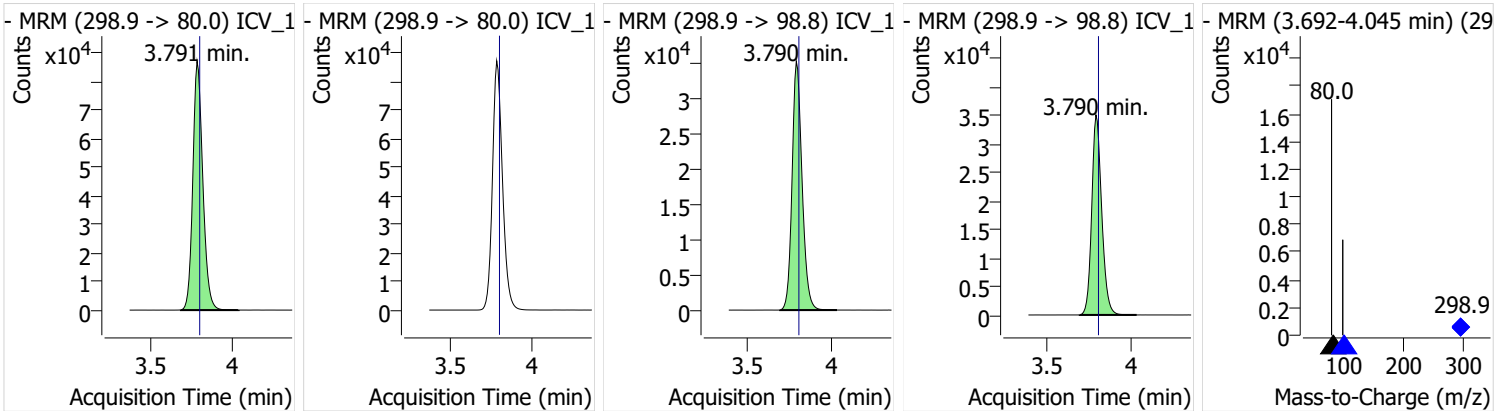

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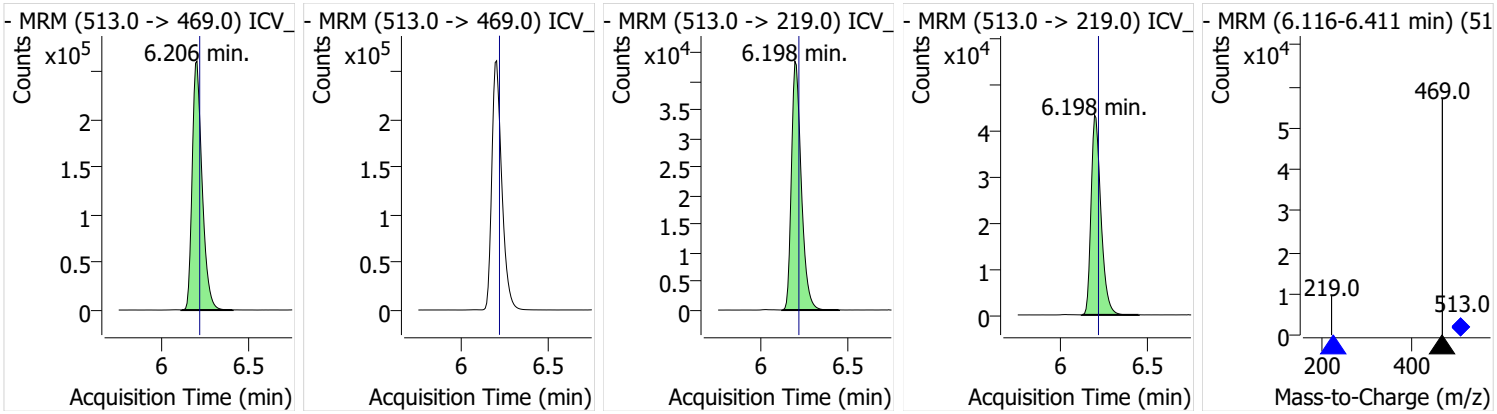

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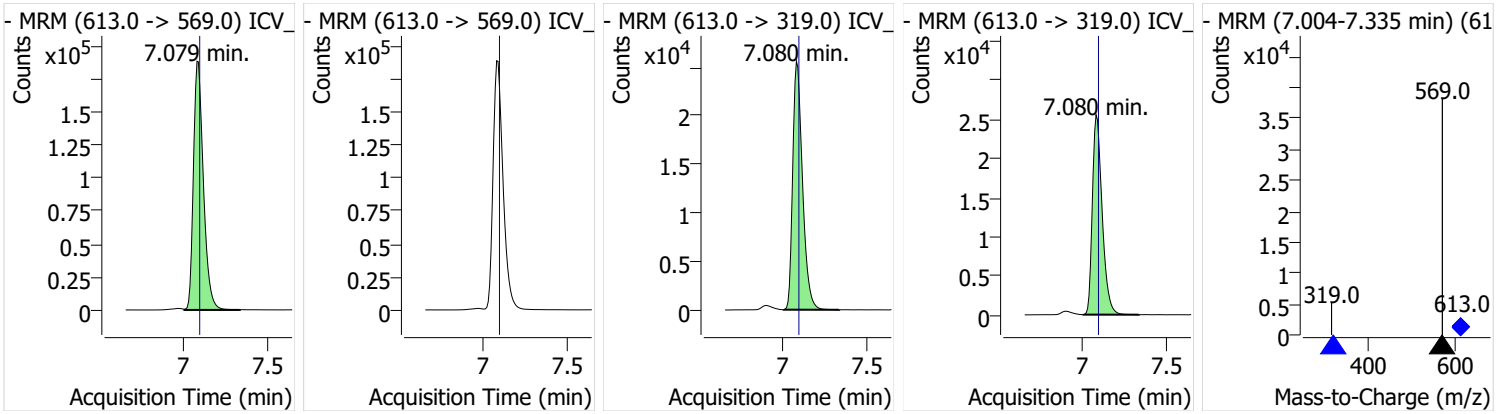

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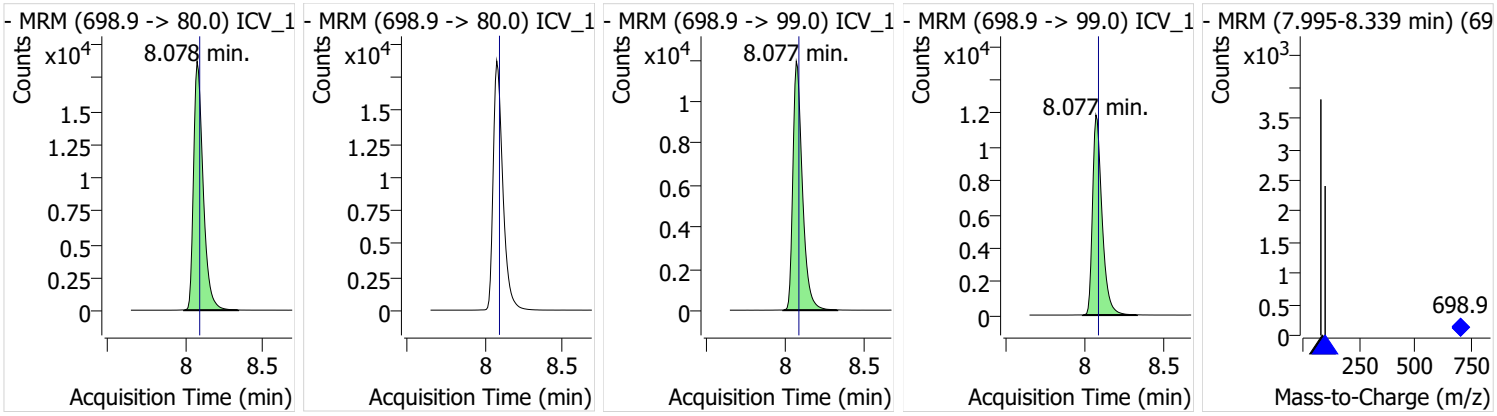

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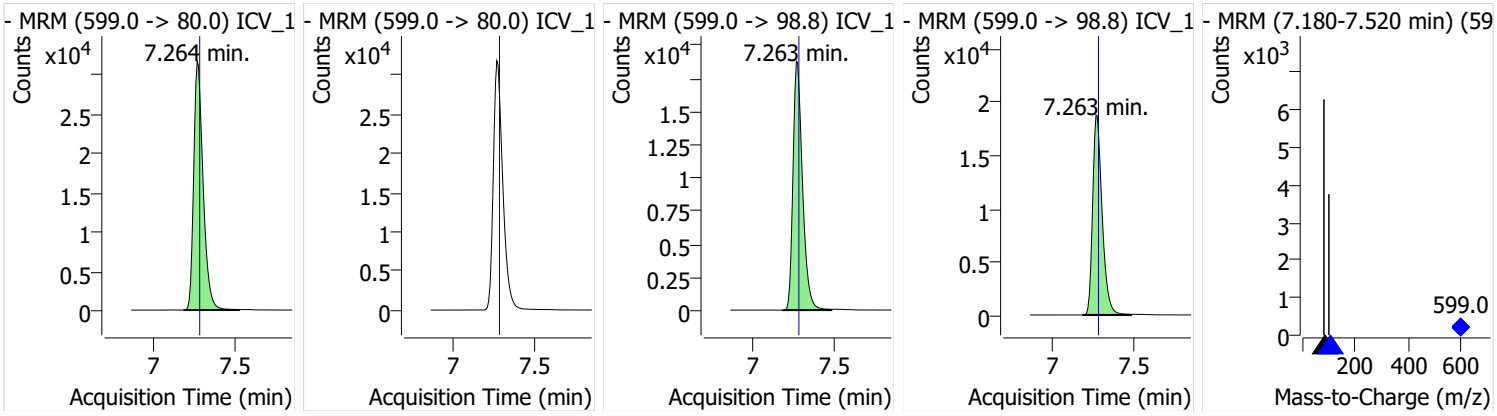

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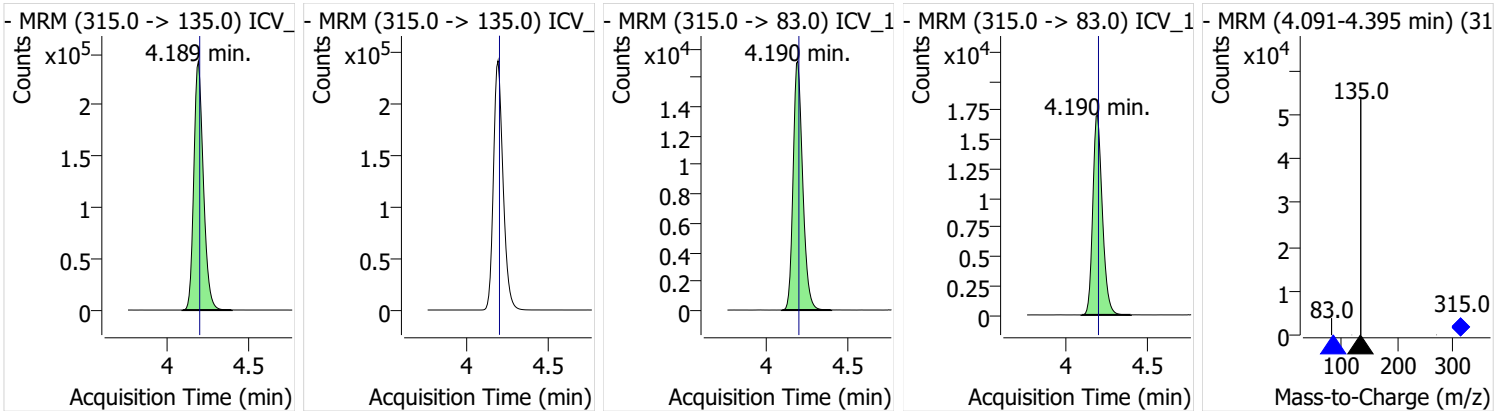

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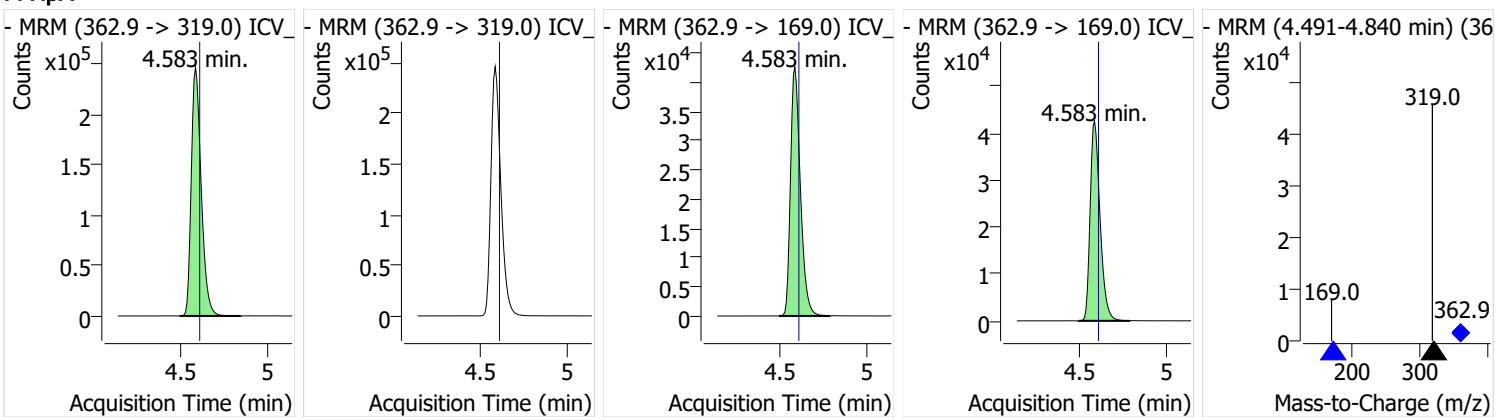

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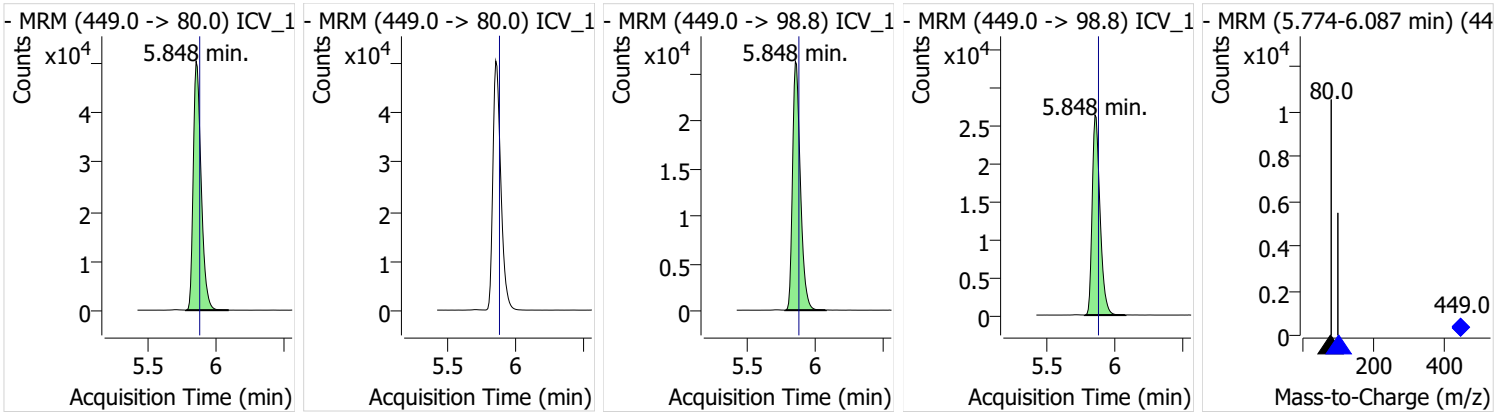

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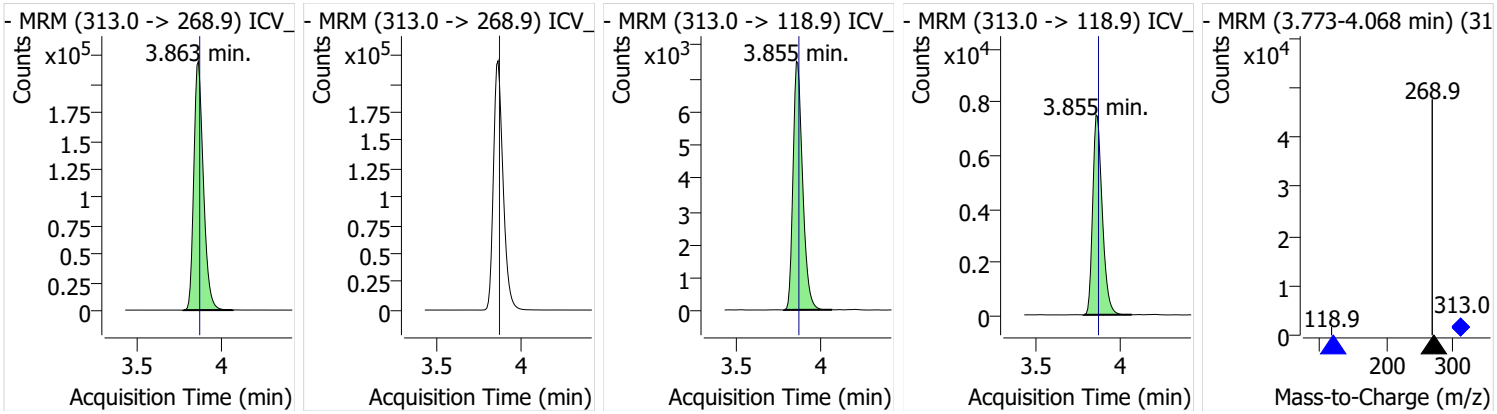

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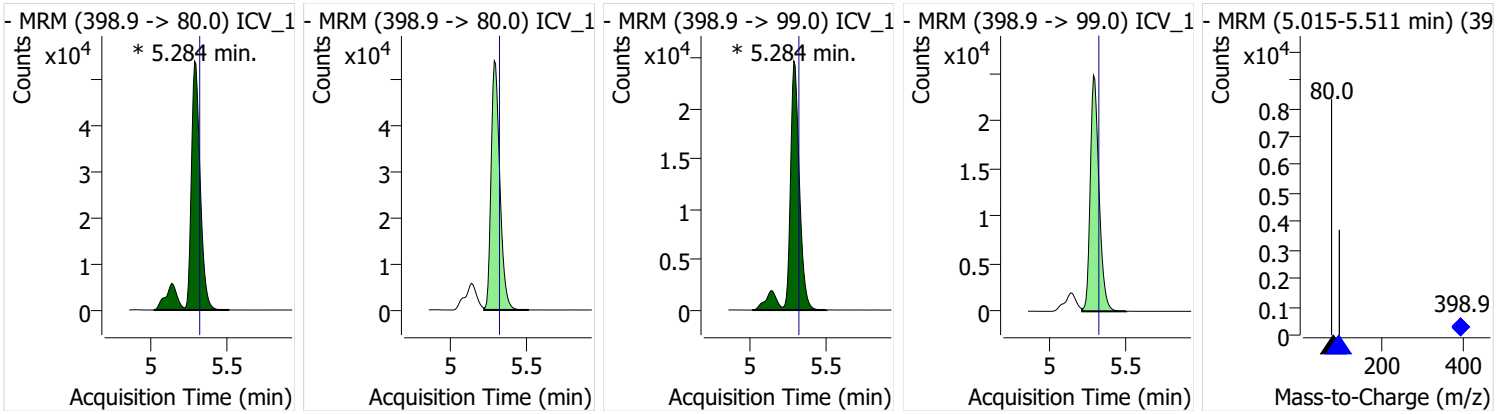

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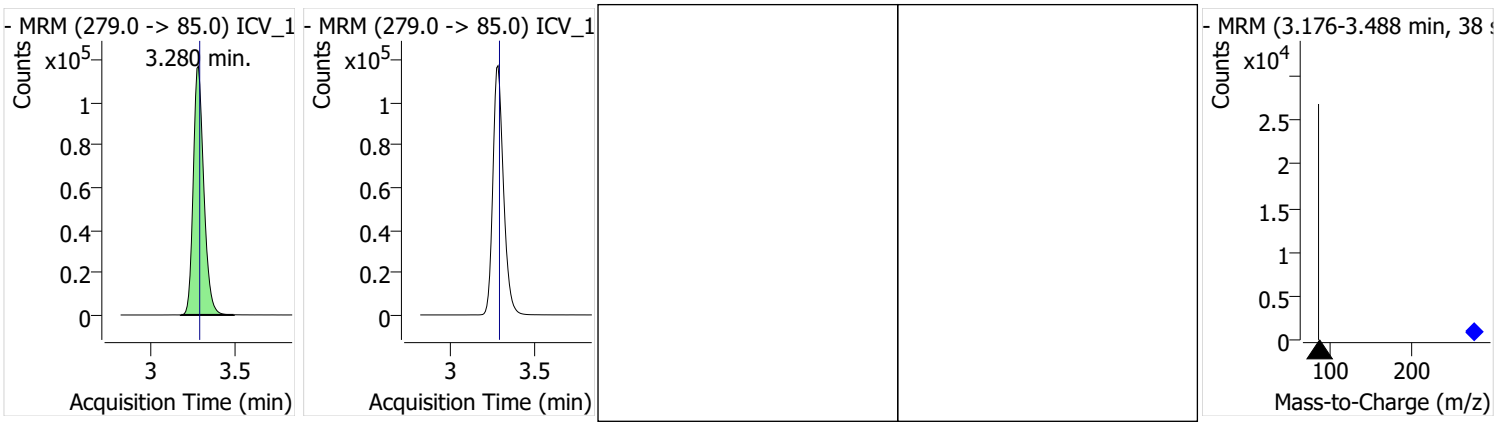

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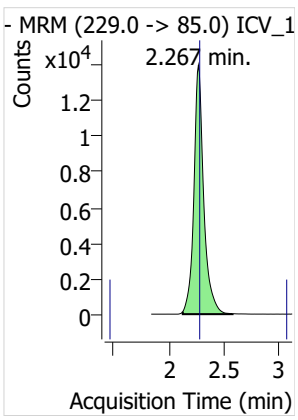

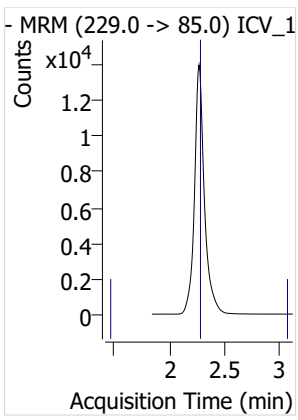

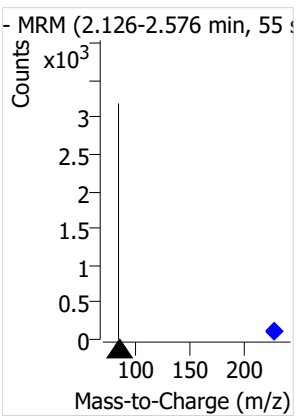

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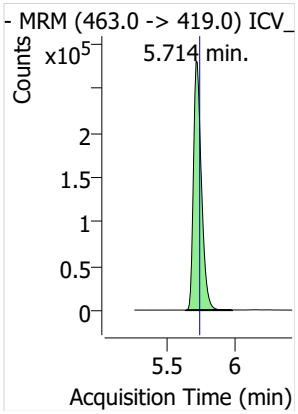

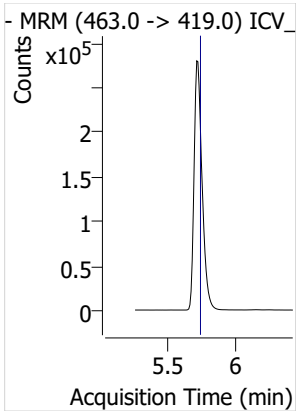

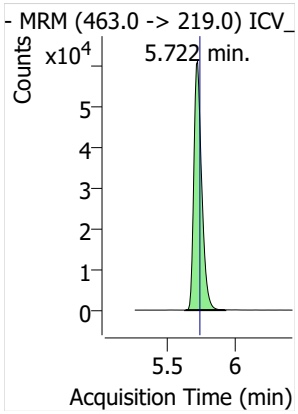

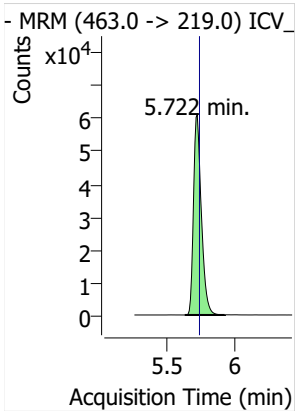

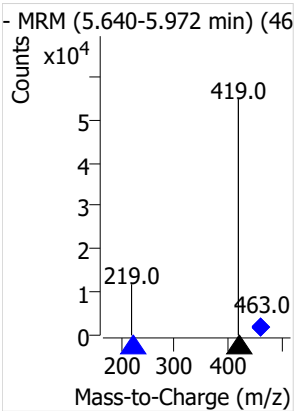

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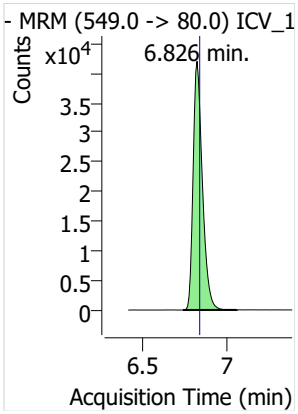

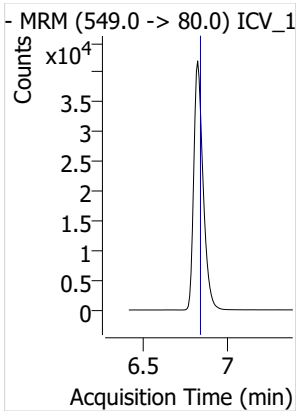

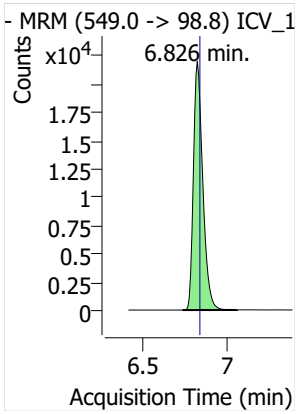

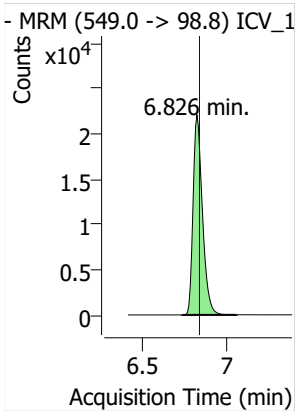

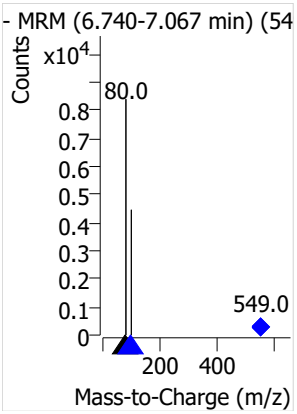

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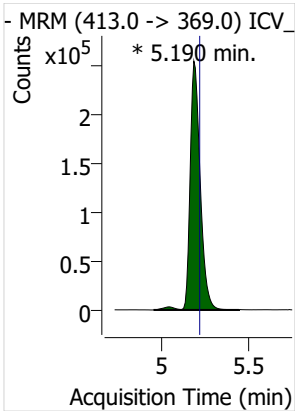

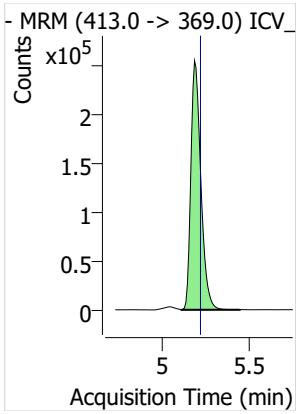

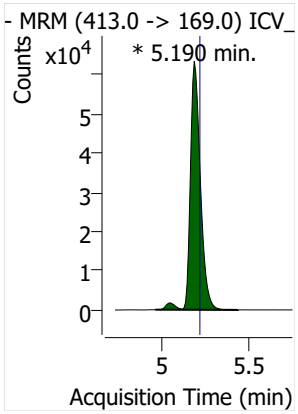

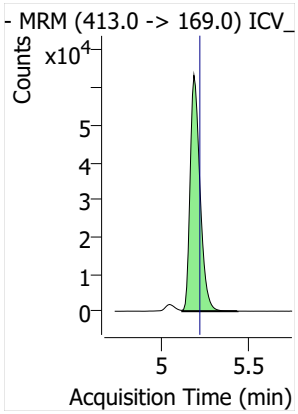

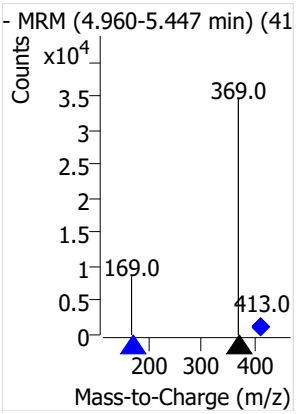

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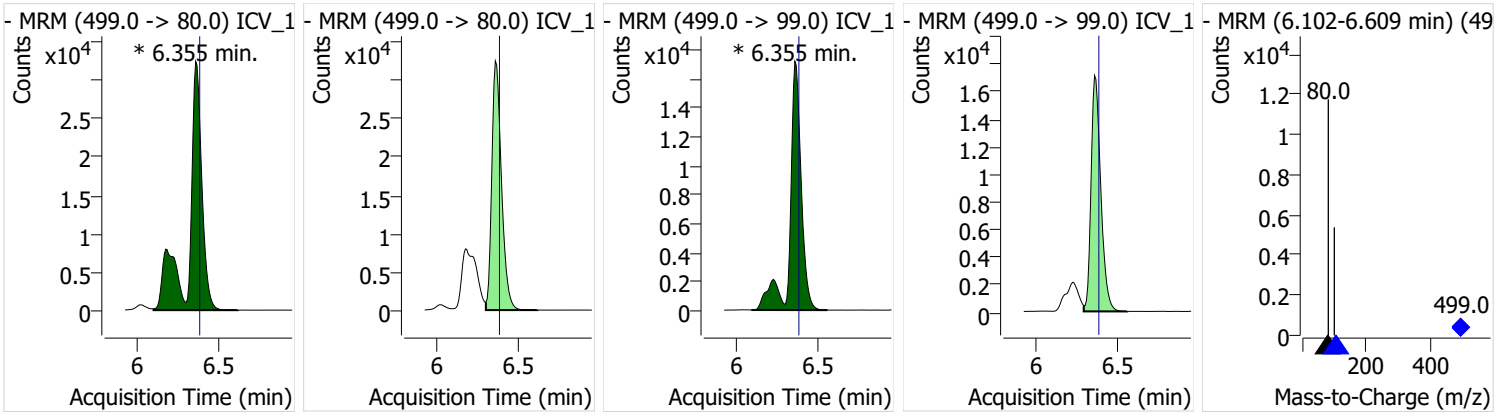

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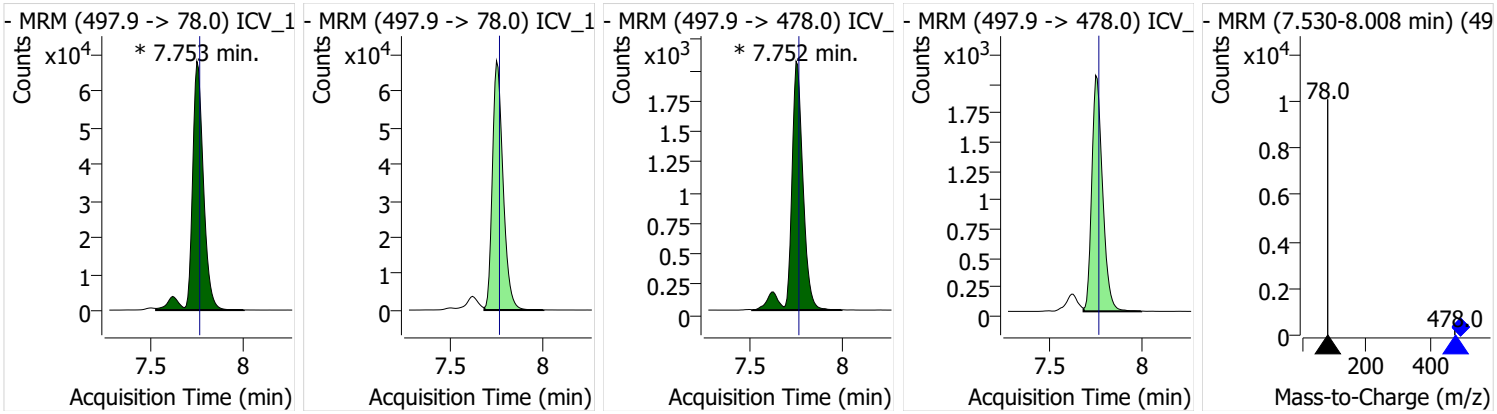

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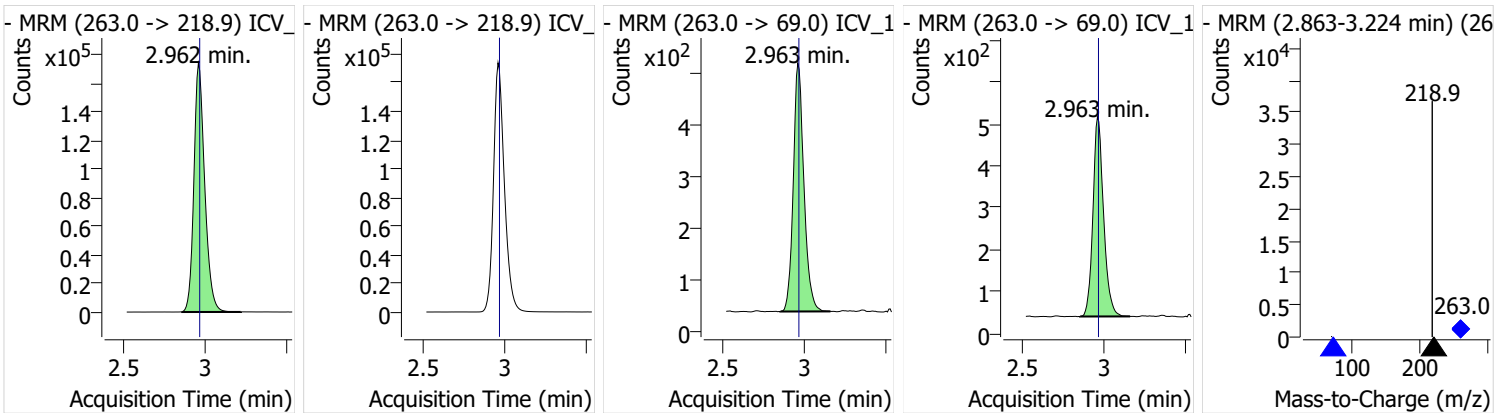

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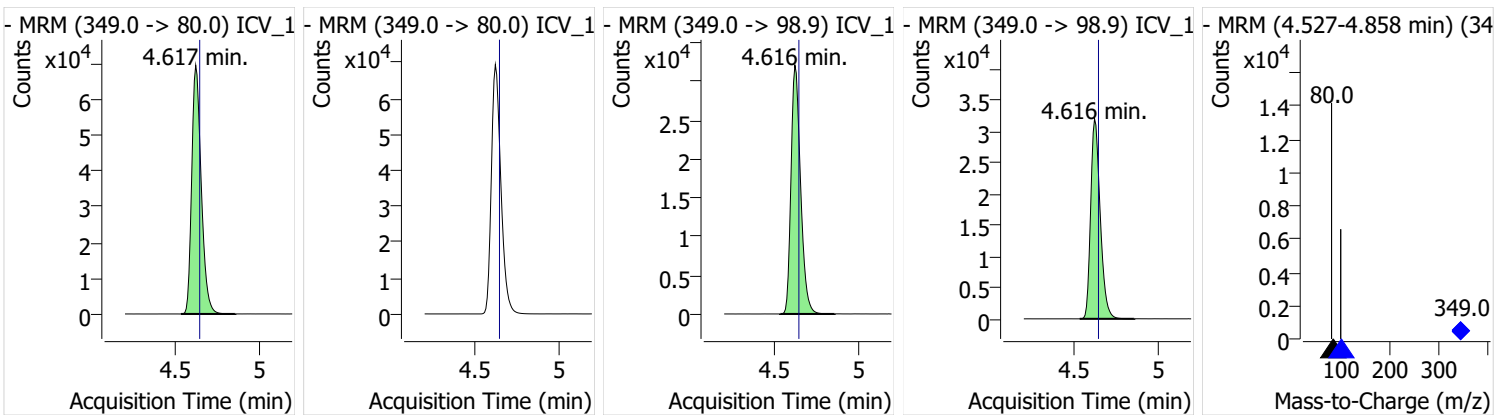

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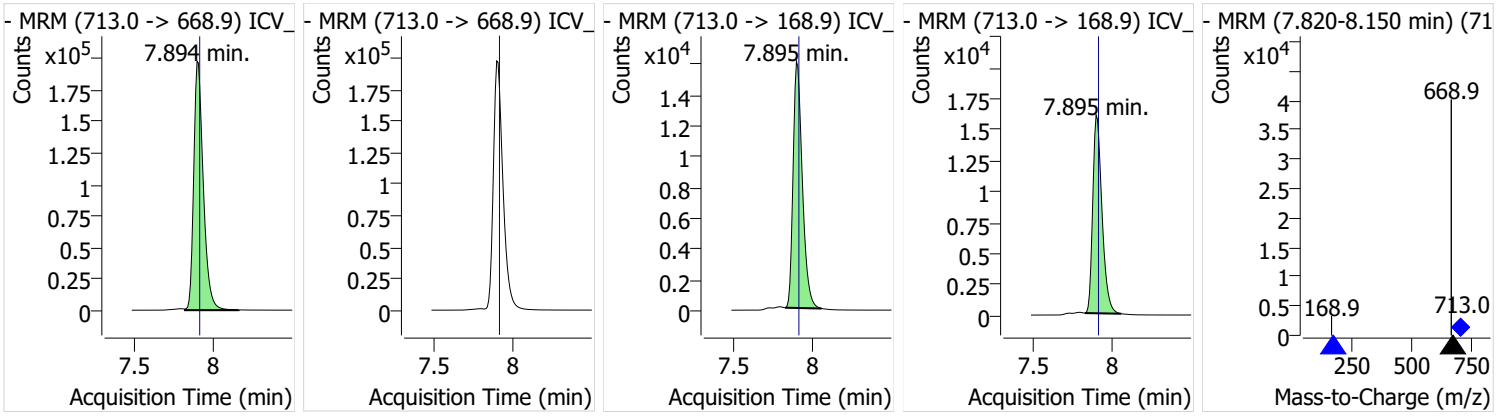

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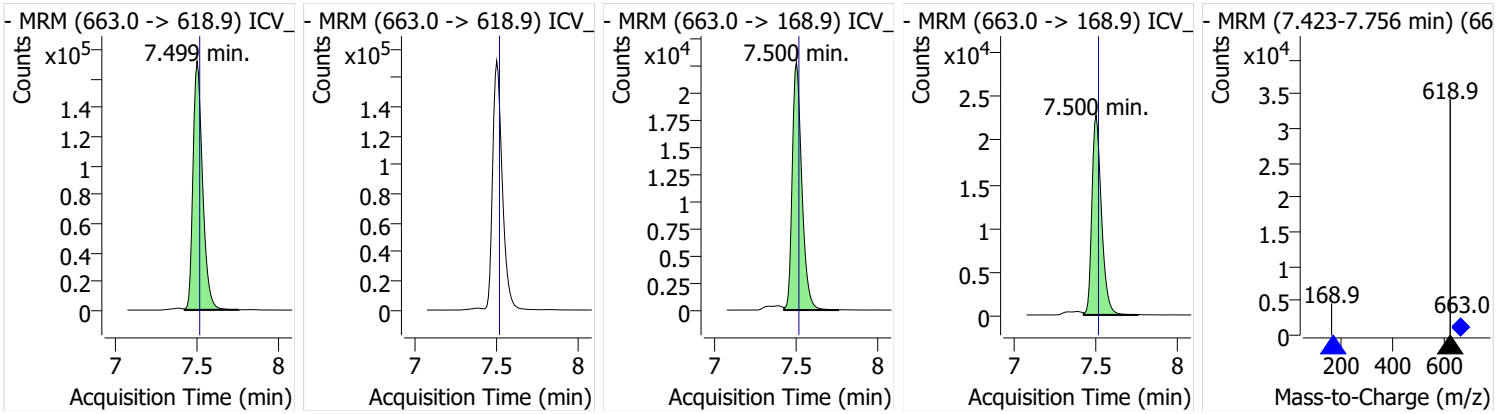

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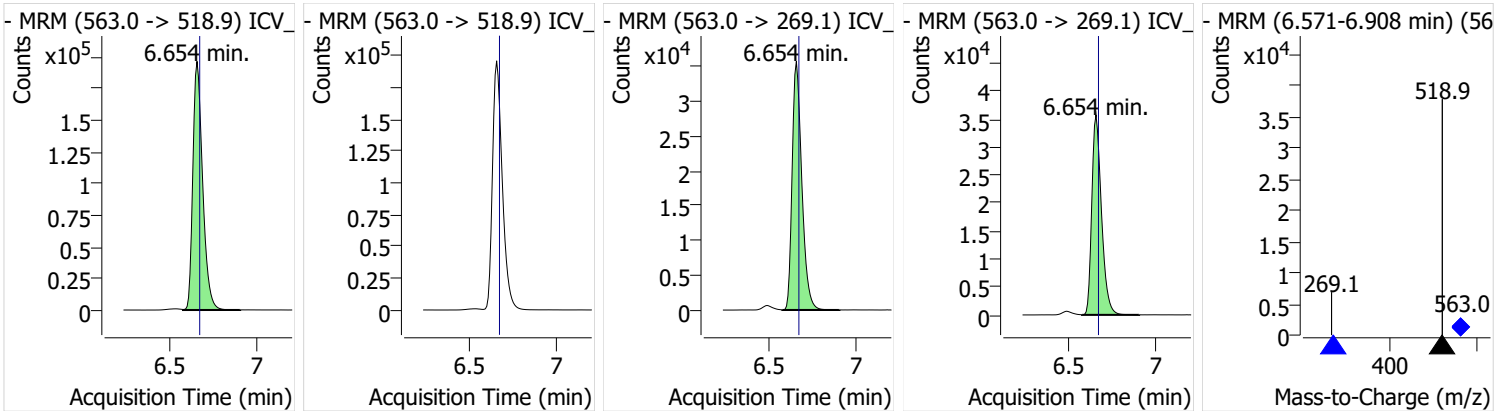

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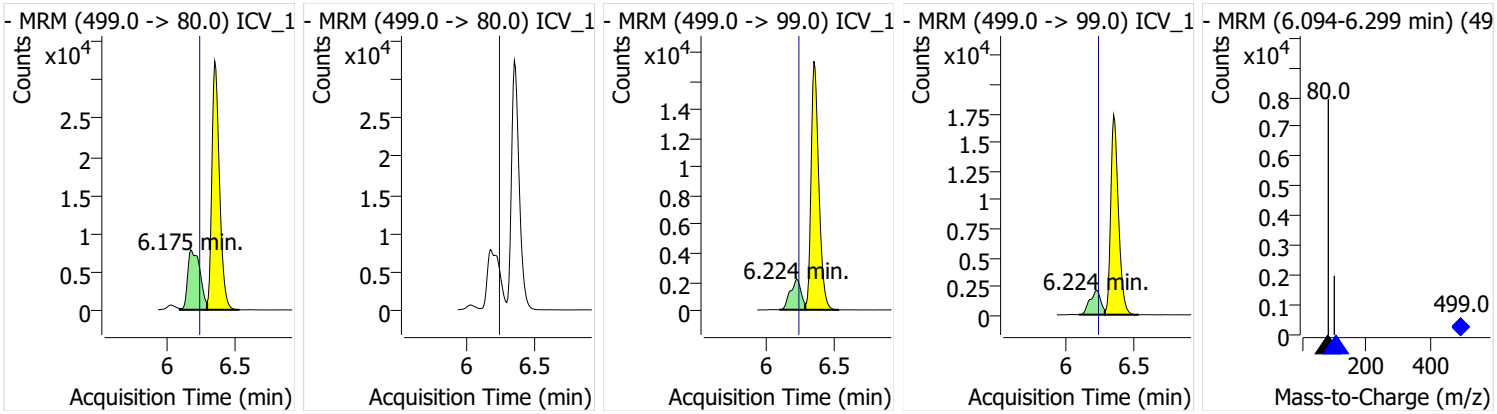

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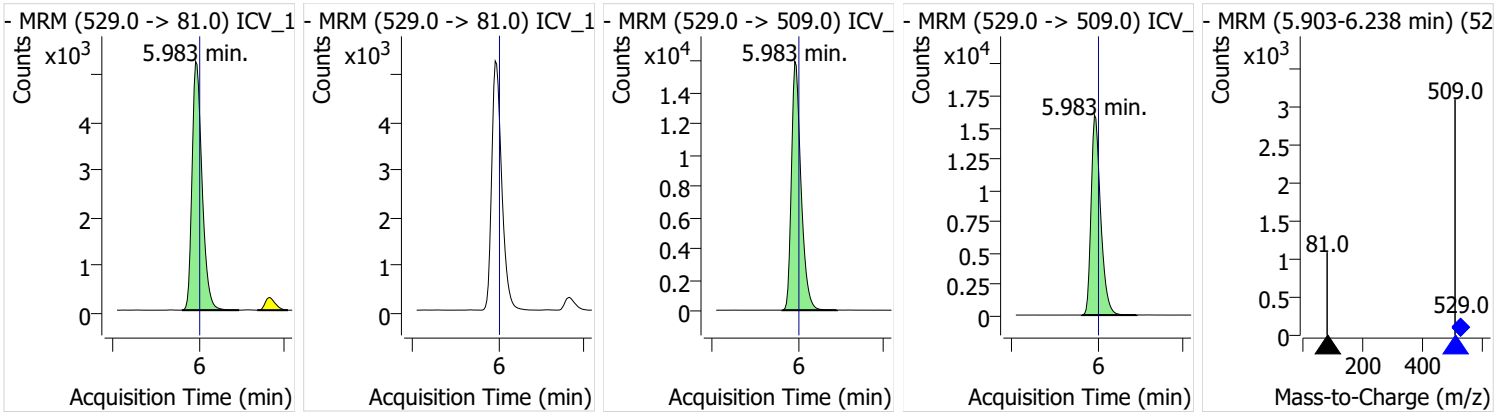

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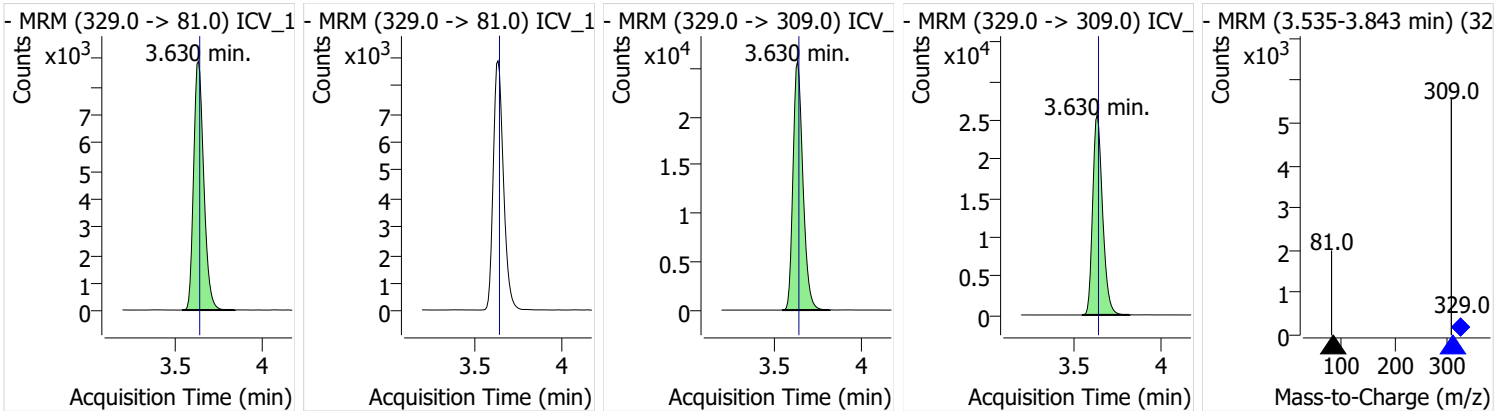

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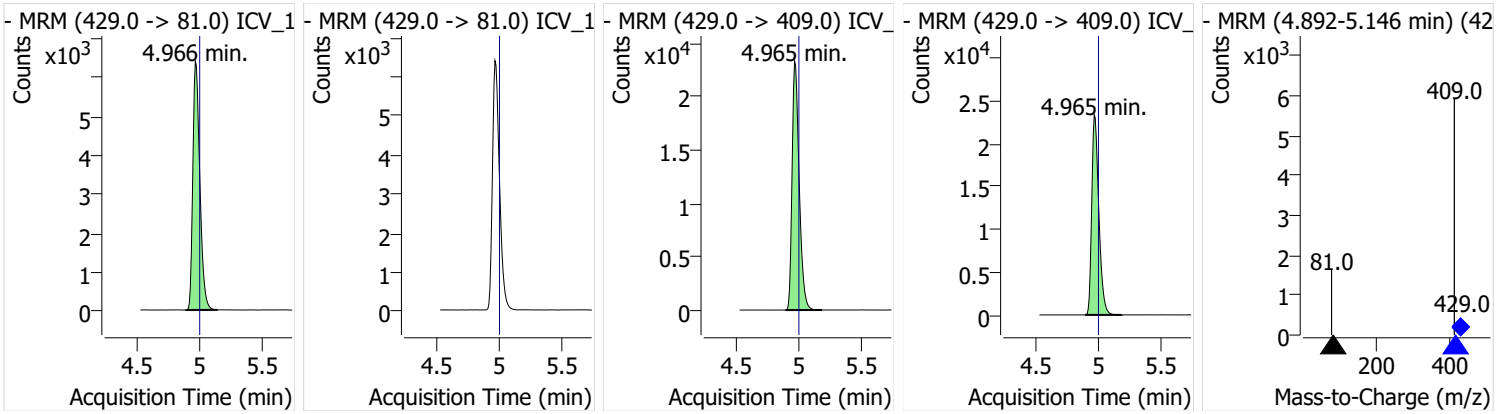

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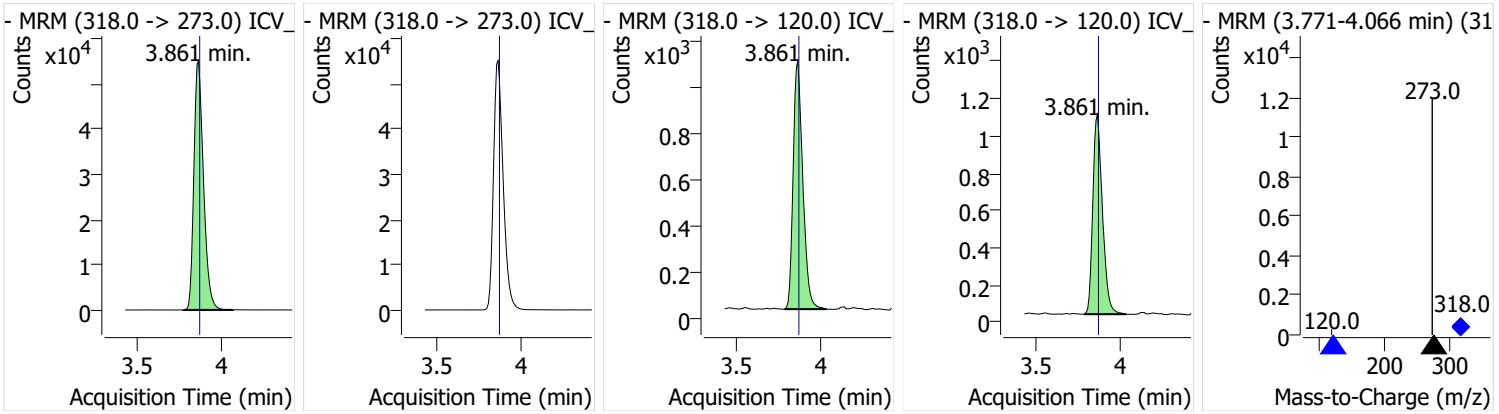

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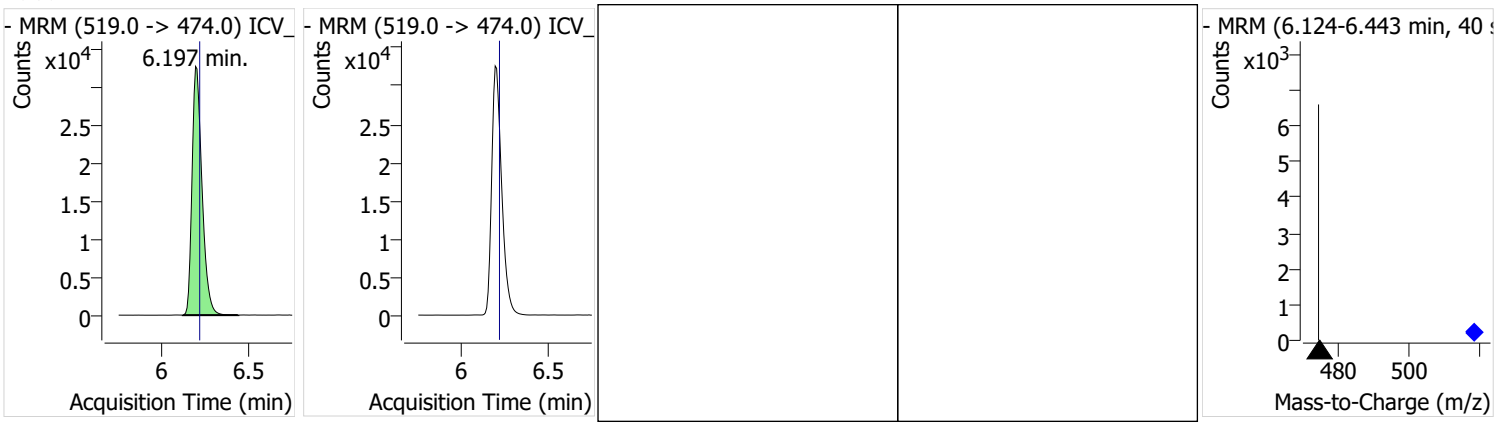

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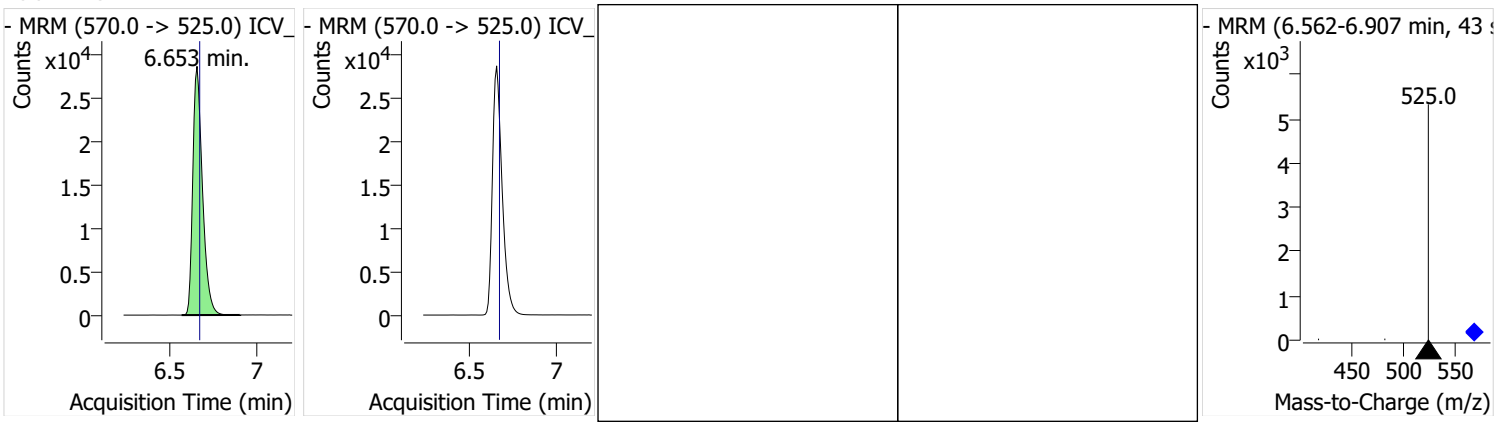

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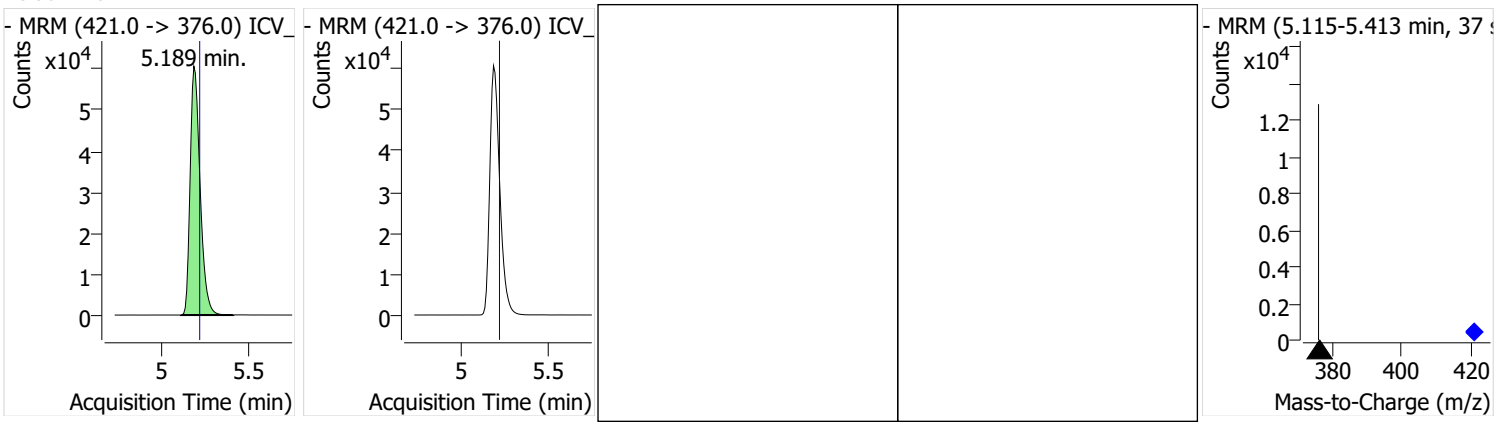

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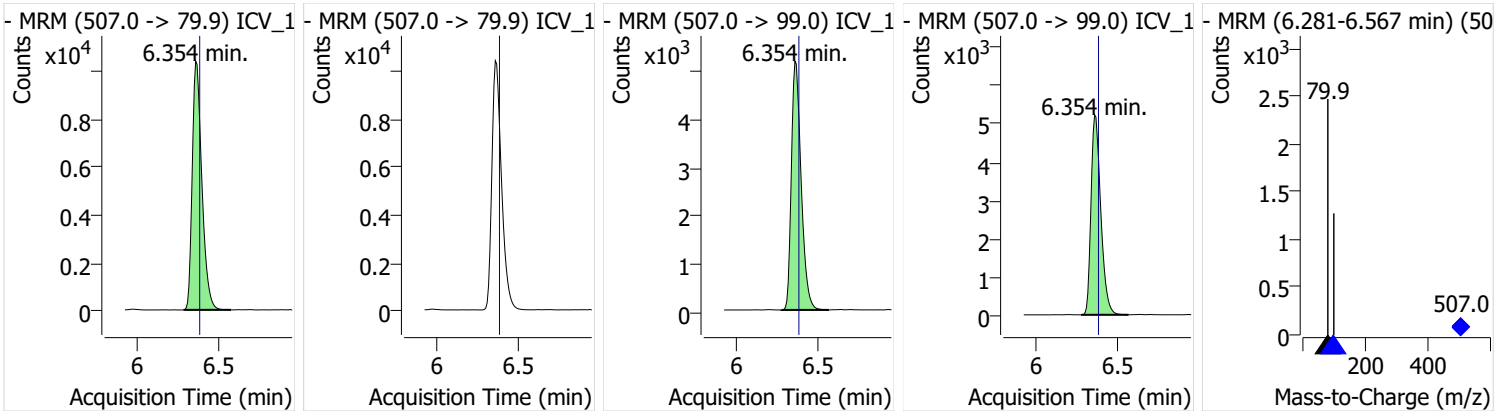

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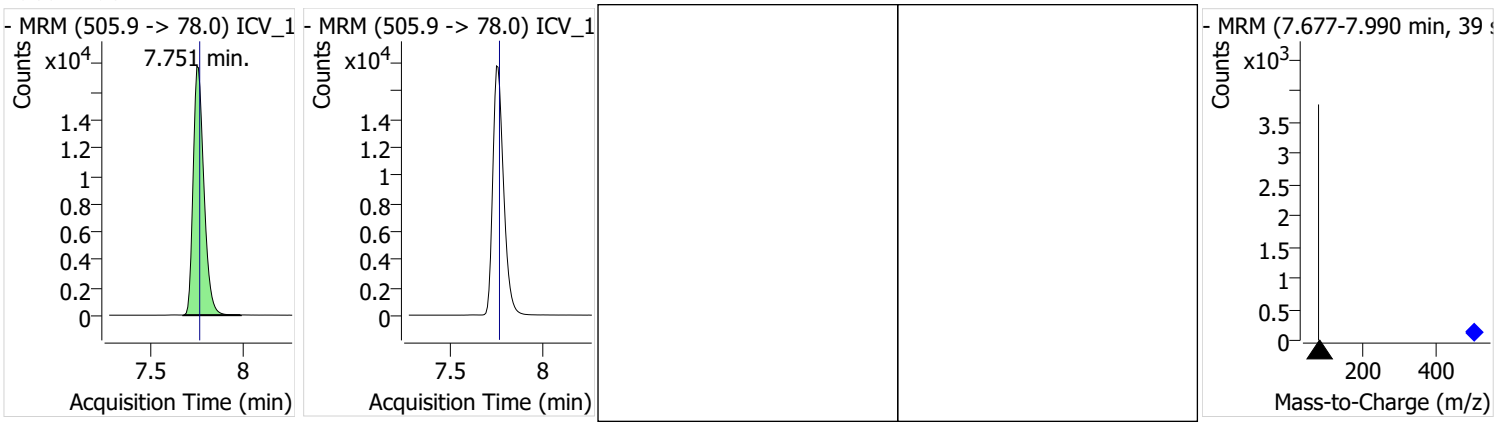
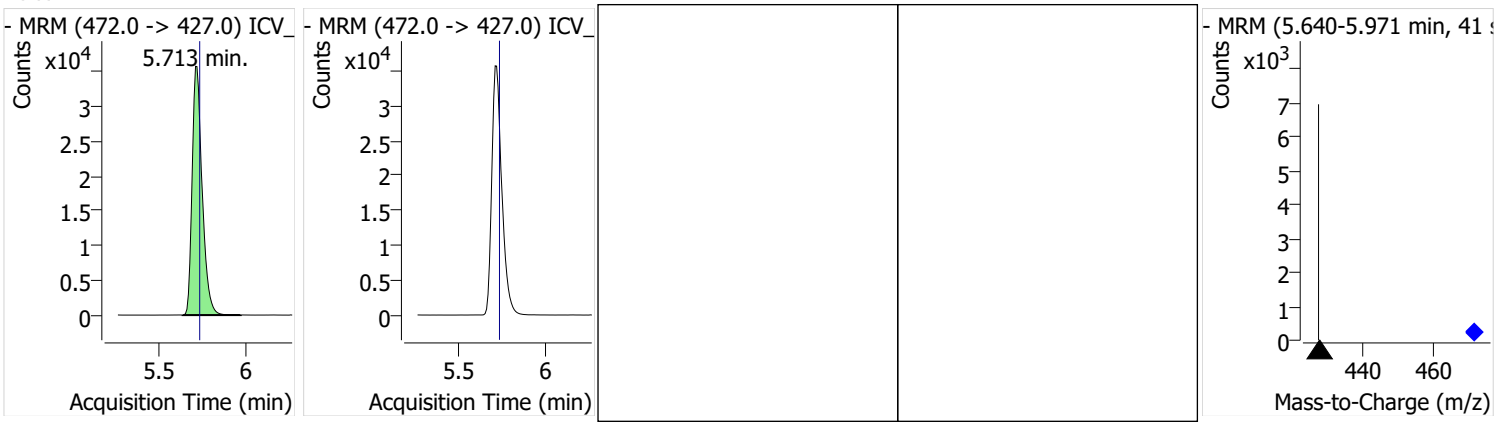
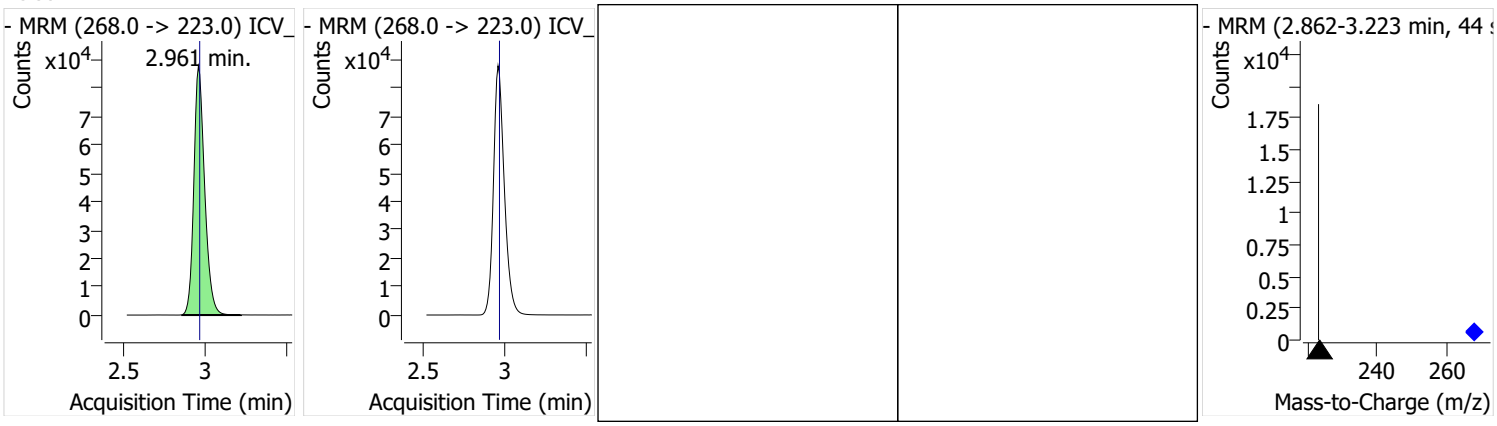


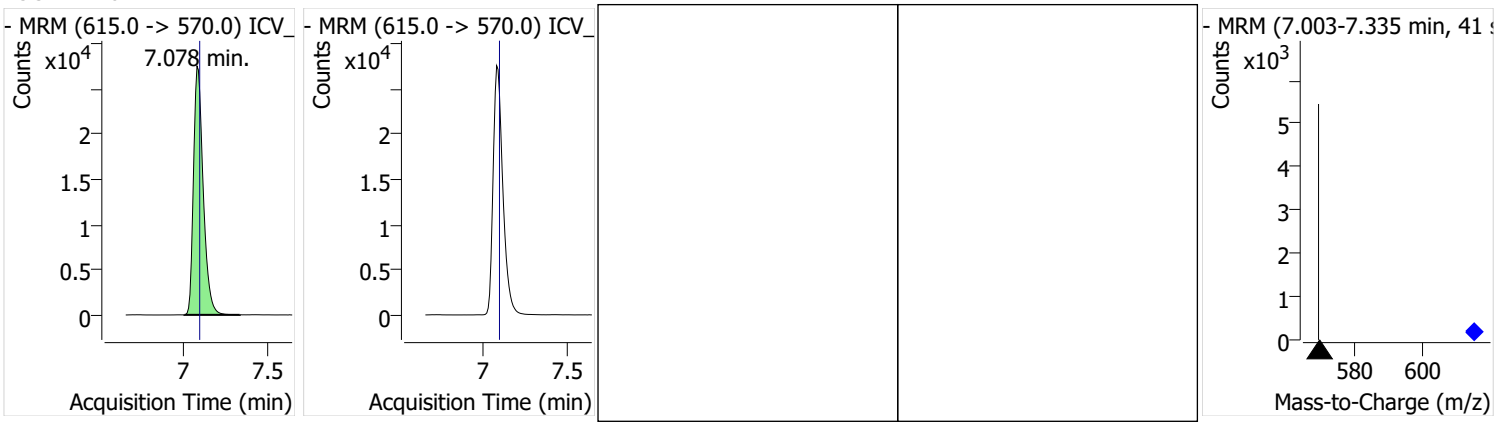
13C9-PFNA



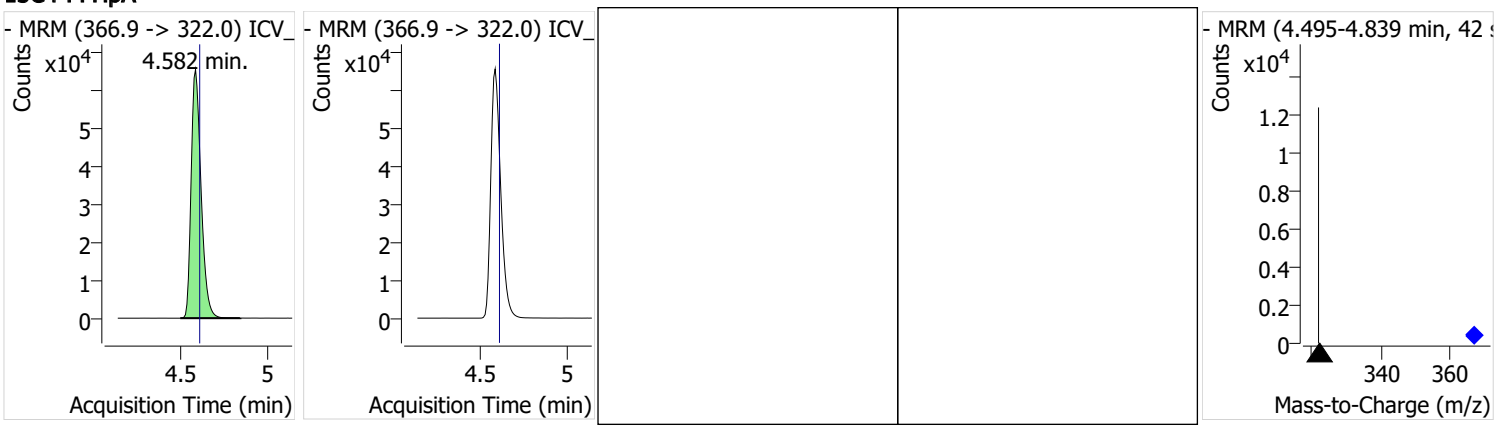
13C5-PFPeA



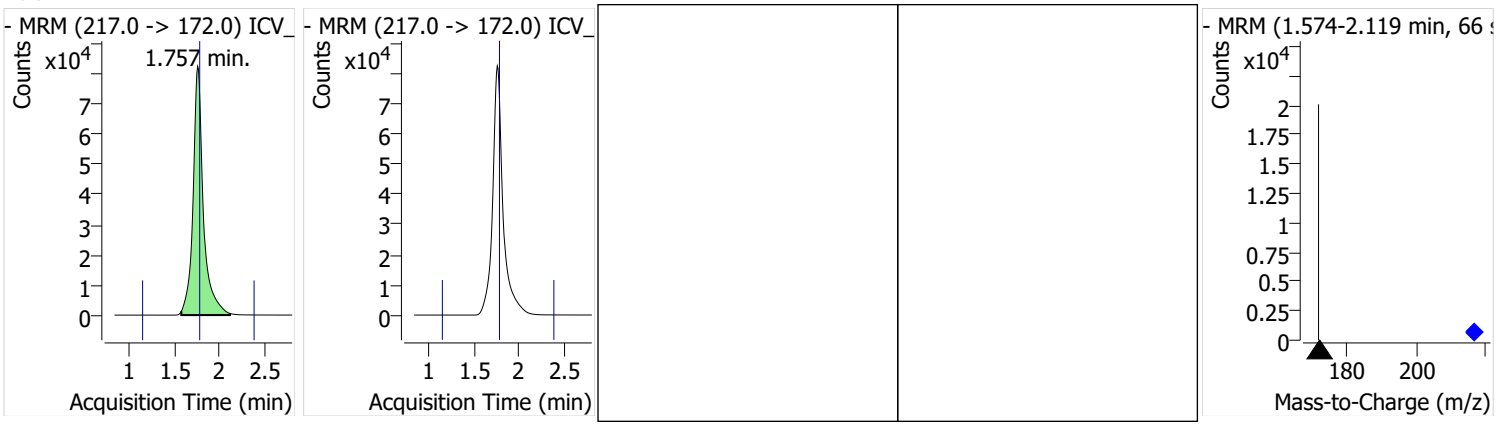
13C2-PFDoA



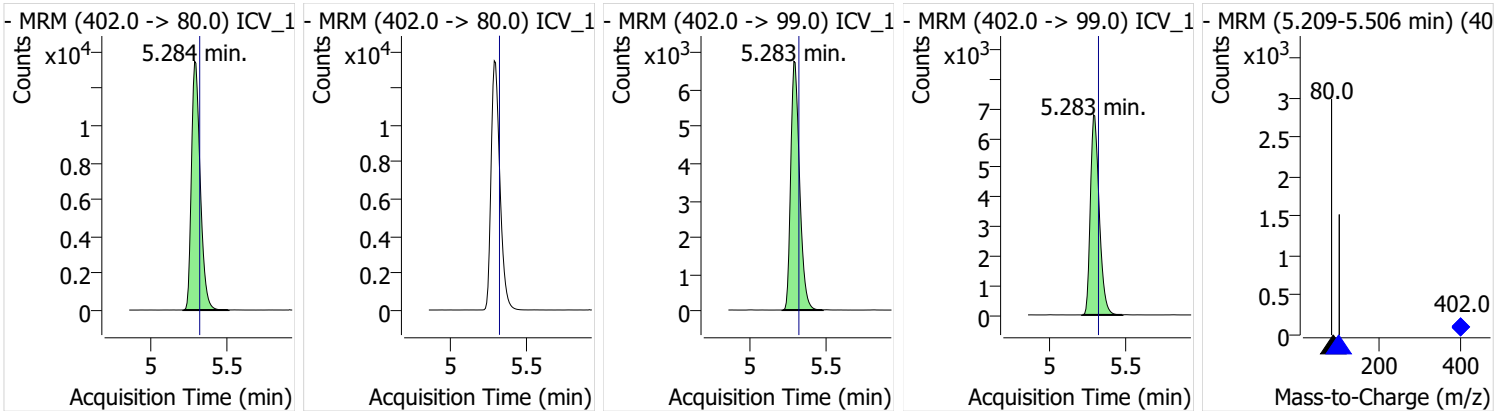
13C4-PFHpA



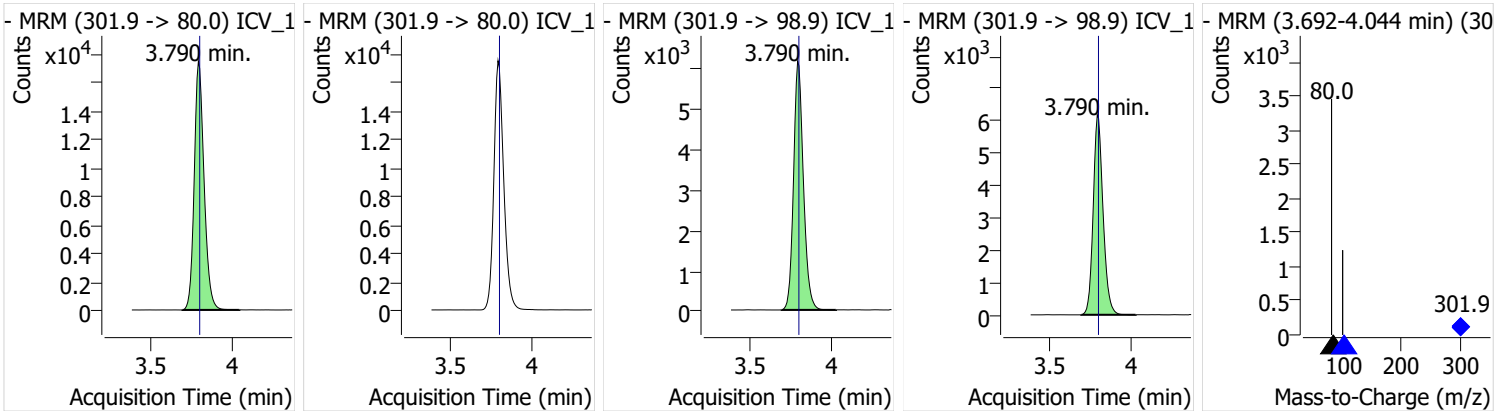
13C4-PFBA



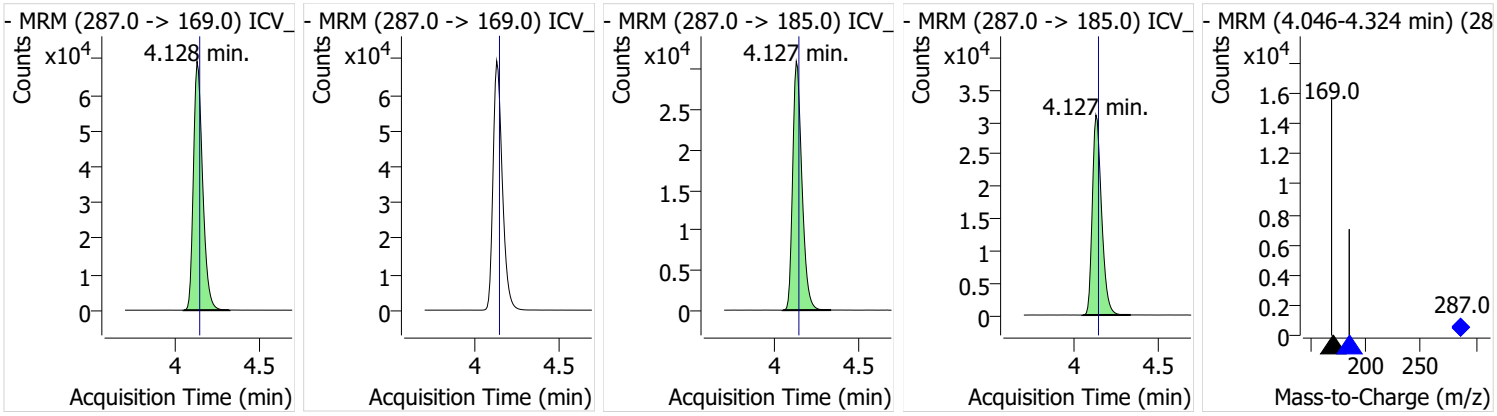
13C3-PFHxS



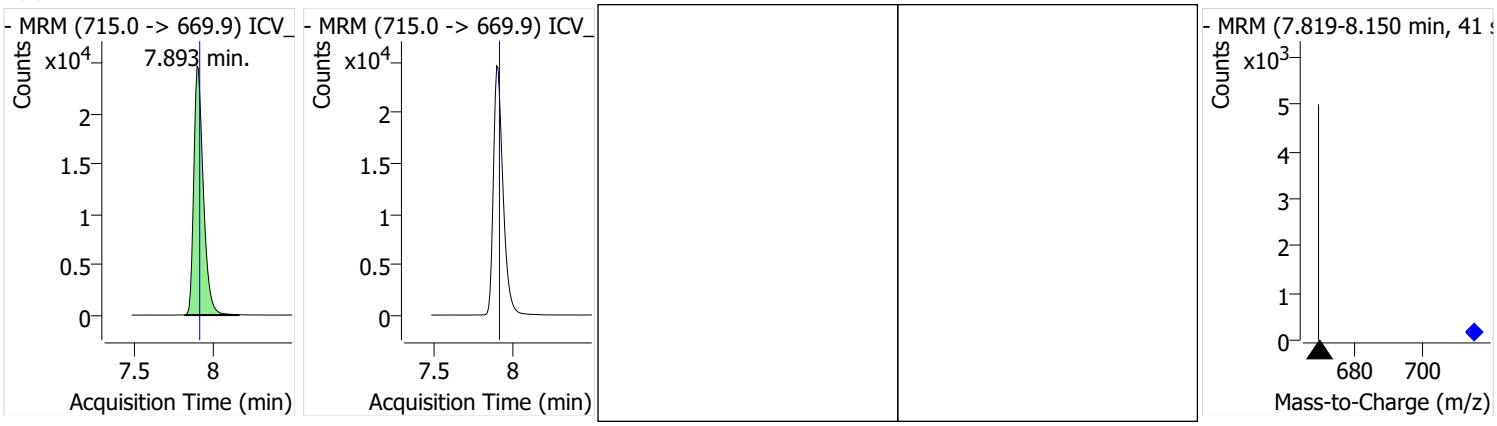
13C3-PFBS



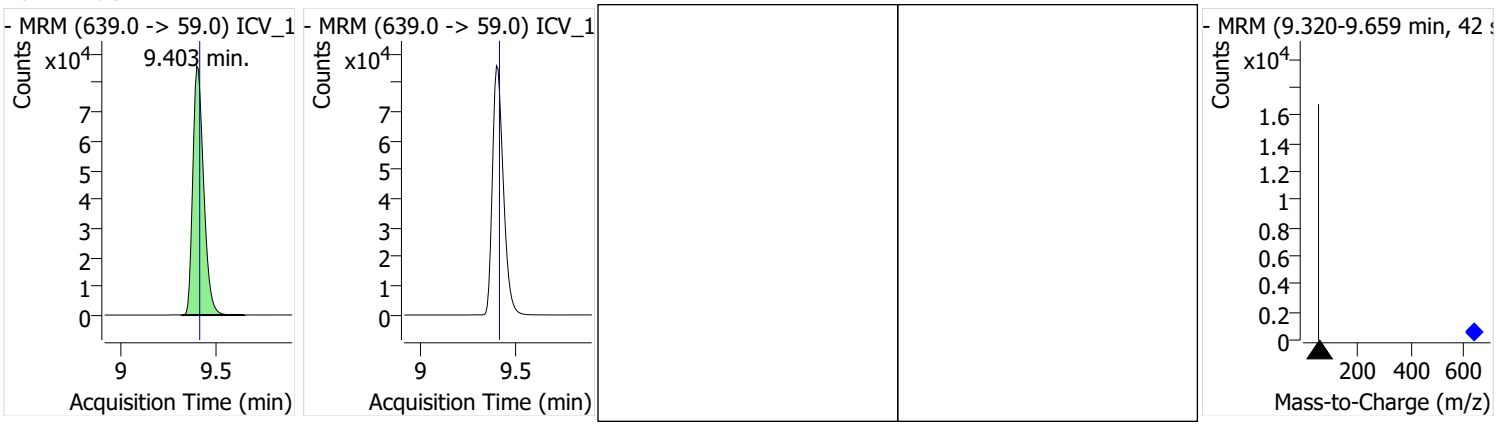
13C3-HFPODA



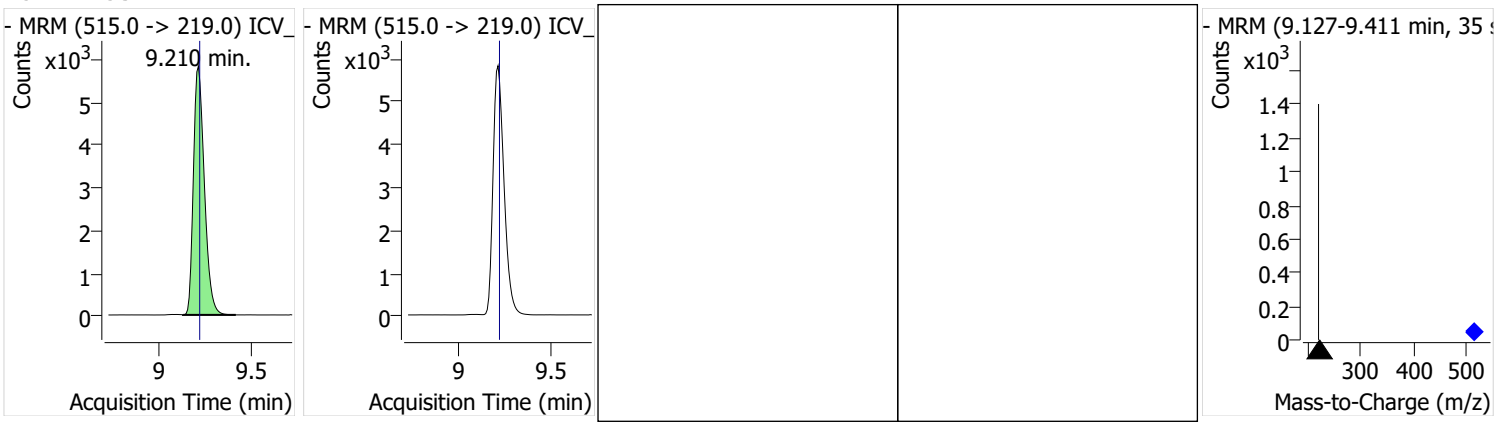
13C2-PFTeDA



D9-NEtFOSE



D3-NMeFOSA



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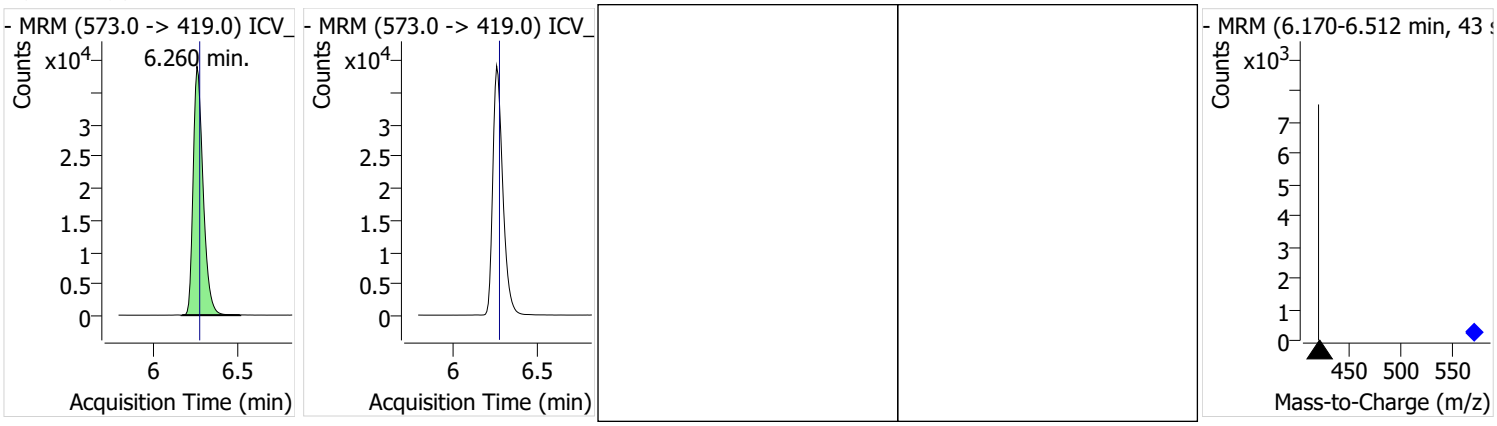
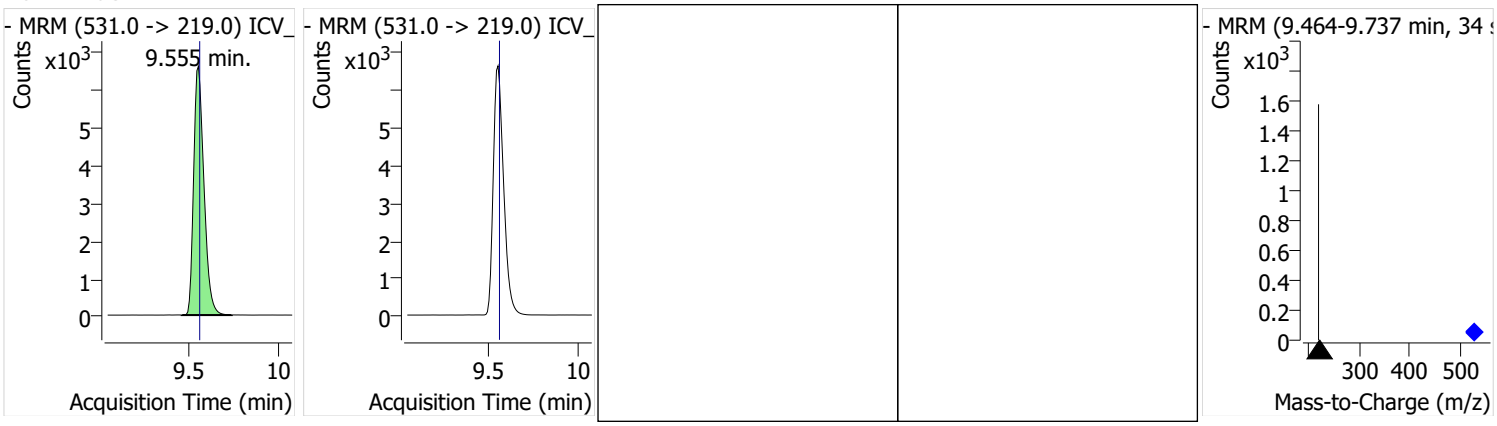


D5-NEtFOSA



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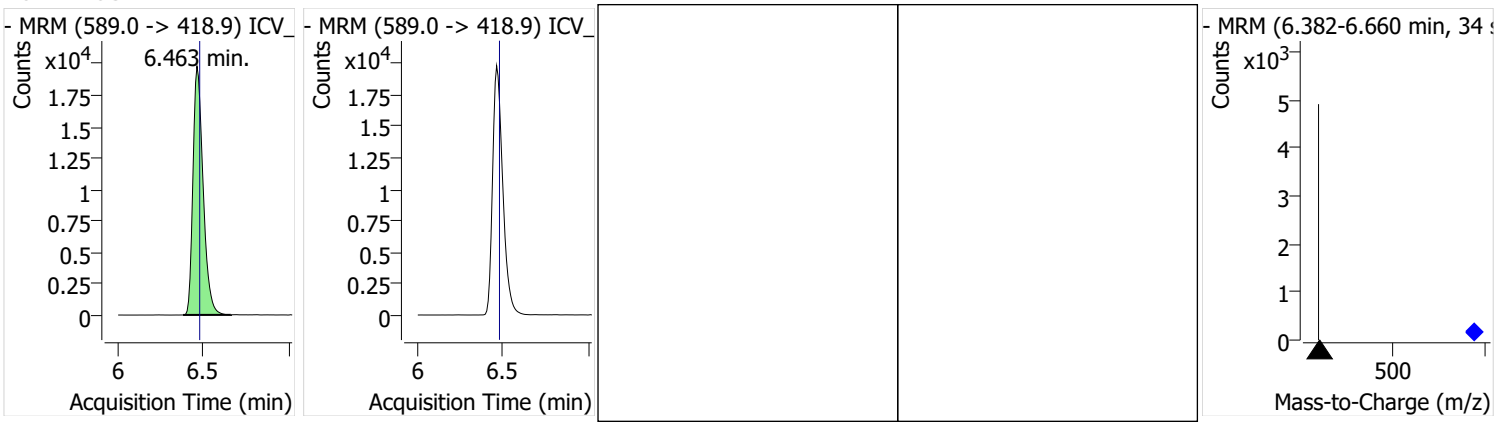
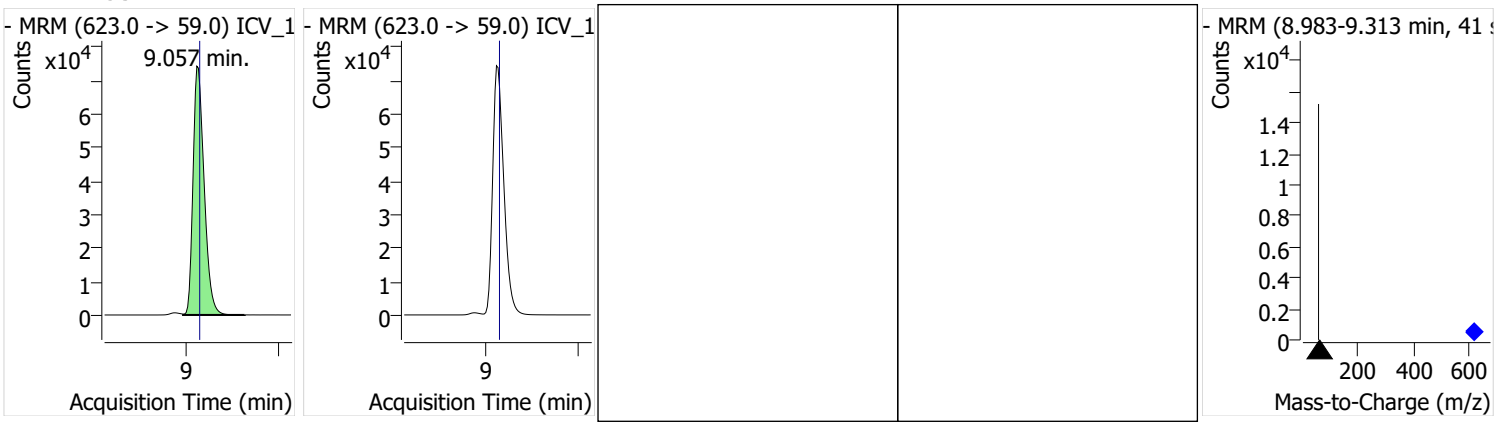


D7-NMeFOSE



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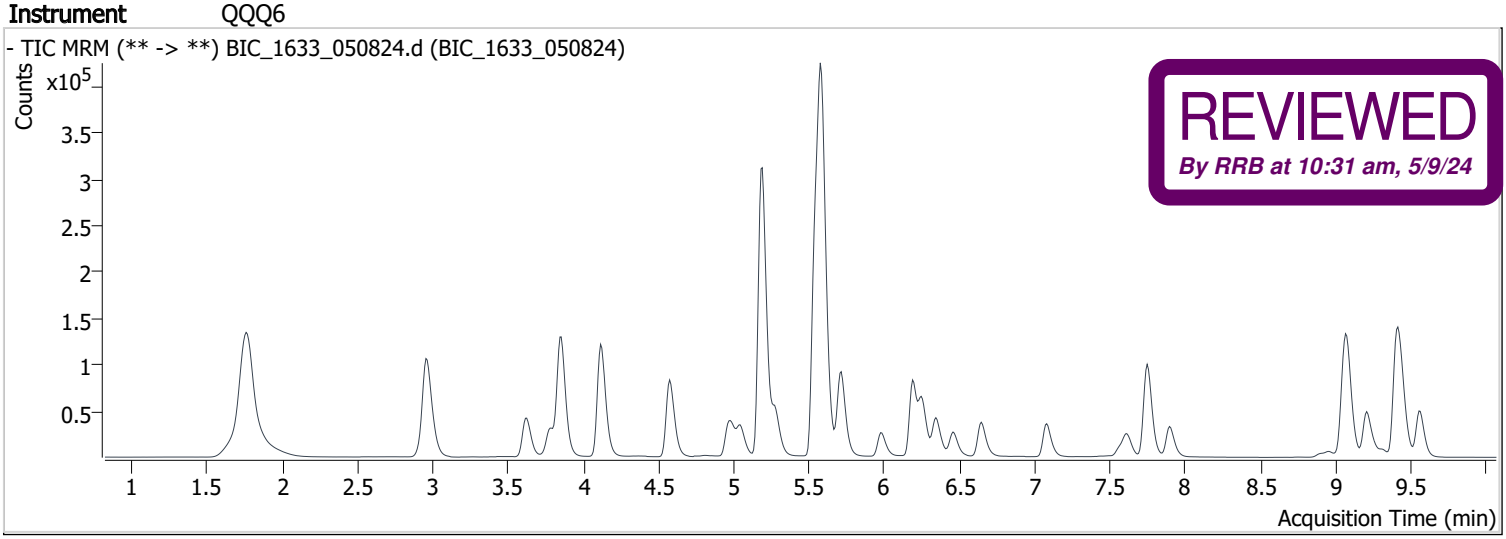
Analysis Time	5/9/2024 9:16 AM	**Last Calib Update**	5/9/2024 9:16 AM
Acq. Time	5/8/2024 9:24 PM	**Data File**	BIC_1633_050824.d
Sample Type	Sample	**Sample Name**	BIC_1633_050824
Dilution	1	**Acq. Method**	1633_ACQUISITION_01.m
Sample Comment	E#24E0179	**Processing method**	1633_042924.m
Instrument	QQQ6		



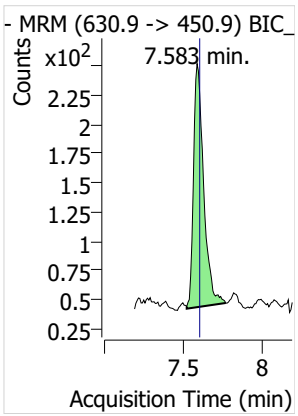
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
11Cl-PF3OUdS	7.583	933	93.37		13C3-HFPODA - ISTD	4.120	325025	0.0097	ng/ml			
633.0 -> 453.0			33.66	21.4								
3:3FTCA	2.566	0			13C5-PFPeA - ISTD	2.953	495705	-	ng/ml	✔	1	AMS 05/09/24
241.0 -> 117.0				*								
4:2FTS	3.614	790	163.74		13C2-4:2FTS - ISTD	3.614	47640	0.0284	ng/ml			
327.0 -> 80.9			44.45	32.2								
5:3FTCA	4.351	757	115.04		13C5-PFHxA - ISTD	3.853	268128	0.0709	ng/ml			
341.0 -> 217.0			39.17	72.1								
6:2FTS	4.966	0			13C2-6:2FTS - ISTD	4.966	31633	-	ng/ml	✔	1	AMS 05/09/24
427.0 -> 80.9				*								
7:3FTCA	5.674	2066	199.08		13C5-PFHxA - ISTD	3.853	268128	0.1642	ng/ml			
441.0 -> 317.0			89.82	81.1								
8:2FTS	5.967	0			13C2-8:2FTS - ISTD	5.975	26538	-	ng/ml	✔	1	AMS 05/09/24
527.0 -> 81.0				*								
9Cl-PF3ONS	6.696	0			13C3-HFPODA - ISTD	4.120	325025	-	ng/ml	✔	1	AMS 05/09/24
533.0 -> 353.0				*								
ADONA	4.814	910	79.96		13C3-HFPODA - ISTD	4.120	325025	0.0038	ng/ml			
377.0 -> 85.1			95.51	42.1								
HFPO-DA	4.137	0			13C3-HFPODA - ISTD	4.120	325025	-	ng/ml	✔	1	AMS 05/09/24
285.0 -> 184.9				*								
NEtFOSA	9.565	158713	11380.30		D5-NEtFOSA - ISTD	9.555	32644	9.3584	ng/ml	✔	3	AMS 05/09/24

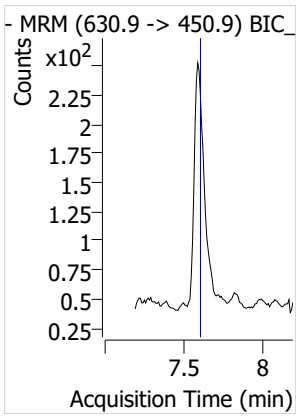
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
526.0 -> 219.0			9835.96	76.7								
NEtFOSAA	6.463	0			D5-NEtFOSAA - ISTD	6.455	99855	-	ng/ml	✔	1	AMS 05/09/24
584.0 -> 526.0				*								
NEtFOSE	9.428	138858	6995.46		D9-NEtFOSE - ISTD	9.403	450610	6.8974	ng/ml	✔	3	AMS 05/09/24
NFDHA	3.767	0			13C5-PFHxA - ISTD	3.853	268128	-	ng/ml	✔	1	AMS 05/09/24
295.0 -> 85.0				*								
NMeFOSA	9.211	153718	15008.10		D3-NMeFOSA - ISTD	9.210	29818	10.6428	ng/ml	✔	3	AMS 05/09/24
512.0 -> 219.0			8032.97	73.4								
NMeFOSAA	6.269	0			D3-NMeFOSAA - ISTD	6.252	198702	-	ng/ml	✔	1	AMS 05/09/24
570.0 -> 418.9				*								
NMeFOSE	9.082	113271	7728.81		D7-NMeFOSE - ISTD	9.065	412063	6.3664	ng/ml	✔	3	AMS 05/09/24
PFBA	1.754	6350	126.10		13C4-PFBA - ISTD	1.757	806103	0.0853	ng/ml	✔	3	AMS 05/09/24
PFBS	3.783	0			13C3-PFBS - ISTD	3.782	95045	-	ng/ml	✔	1	AMS 05/09/24
298.9 -> 98.8				*								
PFDA	6.189	0			13C6-PFDA - ISTD	6.189	167809	-	ng/ml	✔	1	AMS 05/09/24
513.0 -> 219.0				*								
PFDoA	7.079	0			13C2-PFDoA - ISTD	7.078	139920	-	ng/ml	✔	1	AMS 05/09/24
613.0 -> 319.0				*								
PFDoS	8.078	0			13C8-PFOS - ISTD	6.346	51348	-	ng/ml	✔	1	AMS 05/09/24
698.9 -> 99.0				*								
PFDS	7.264	0			13C8-PFOS - ISTD	6.346	51348	-	ng/ml	✔	1	AMS 05/09/24
599.0 -> 98.8				*								
PFEESA	4.181	1557	276.45		13C5-PFHxA - ISTD	3.853	268128	0.0115	ng/ml			
315.0 -> 83.0			56.82	7.3								
PFHpA	4.574	7825	204.65		13C4-PFHpA - ISTD	4.574	311622	0.0602	ng/ml			
362.9 -> 169.0			184.93	17.4								
PFHpS	5.857	0			13C8-PFOS - ISTD	6.346	51348	-	ng/ml	✔	1	AMS 05/09/24
449.0 -> 98.8				*								
PFHxA	3.855	2342	47.70		13C5-PFHxA - ISTD	3.853	268128	0.0215	ng/ml			
313.0 -> 118.9			24.53	3.5								
PFHxS	5.285	0			13C3-PFHxS - ISTD	5.284	66823	-	ng/ml	✔	1	AMS 05/09/24
398.9 -> 99.0				*								
PFMBA	3.271	769	302.55		13C5-PFPeA - ISTD	2.953	495705	0.0113	ng/ml			

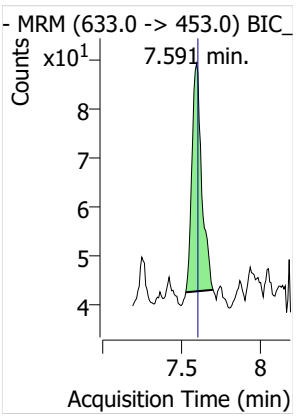
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFMPA	2.275	0			13C5-PFPeA - ISTD	2.953	495705	-	ng/ml	✔	1	AMS 05/09/24
PFNA	5.575	1976089	9128.81		13C9-PFNA - ISTD	5.713	170933	14.3775	ng/ml			
463.0 -> 219.0			14205.93	12.3								
PFNS	6.819	0			13C8-PFOS - ISTD	6.346	51348	-	ng/ml	✔	1	AMS 05/09/24
549.0 -> 98.8				*								
PFOA	5.190	835441	4803.65		13C8-PFOA - ISTD	5.181	282734	5.8855	ng/ml	✔	3	AMS 05/09/24
413.0 -> 169.0			4779.87	26.6								
PFOS	6.347	0			13C8-PFOS - ISTD	6.346	51348	-	ng/ml	✔	1	AMS 05/09/24
499.0 -> 99.0				*								
PFOSA	7.753	421091	13169.79		13C8-PFOSA - ISTD	7.751	91004	10.4797	ng/ml	✔	3	AMS 05/09/24
497.9 -> 478.0			5556.76	3.2								
PFPeA	2.954	0			13C5-PFPeA - ISTD	2.953	495705	-	ng/ml	✔	1	AMS 05/09/24
263.0 -> 69.0				*								
PFPeS	4.608	0			13C3-PFHxS - ISTD	5.284	66823	-	ng/ml	✔	1	AMS 05/09/24
349.0 -> 98.9				*								
PFTeDA	7.894	1786	156.99		13C2-PFTeDA - ISTD	7.893	126343	0.0176	ng/ml			
713.0 -> 168.9			138.03	8.5								
PFTrDA	7.499	1303	43.90		13C2-PFDoA - ISTD	7.078	139920	0.0132	ng/ml			
663.0 -> 168.9			197.29	14.4								
PFUnA	6.637	0			13C7-PFUnA - ISTD	6.644	141927	-	ng/ml	✔	1	AMS 05/09/24
563.0 -> 269.1				*								
TDCA	6.216	156	39.52					-	ng/ml			
499.0 -> 99.0			10.98	***42.0**								
13C2-8:2FTS	5.975	26538	6457.56		18O2-PFHxS	5.283	55846	7.2295	ng/ml			
529.0 -> 509.0			43973.62	269.4								
13C2-4:2FTS	3.614	47640	10762.17		18O2-PFHxS	5.283	55846	7.1284	ng/ml			
329.0 -> 309.0			41723.54	252.1								
13C2-6:2FTS	4.966	31633	15646.22		18O2-PFHxS	5.283	55846	7.0048	ng/ml			
429.0 -> 409.0			19475.54	329.4								
13C5-PFHxA	3.853	268128	21968.58		13C2-PFHxA	3.853	222855	2.9197	ng/ml			
318.0 -> 120.0			715.09	1.9								
13C6-PFDA	6.189	167809	15564.23		13C2-PFDA	6.189	141930	1.4985	ng/ml			
13C7-PFUnA	6.644	141927	23819.73		13C2-PFDA	6.189	141930	1.5655	ng/ml			

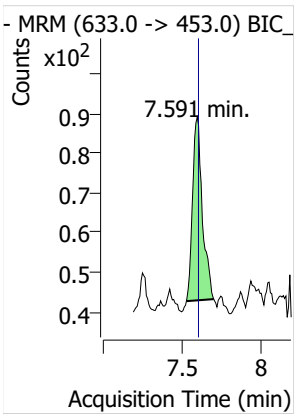
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
13C8-PFOA	5.181	282734	51164.90		13C4-PFOA	5.181	35125	2.9361	ng/ml			
13C8-PFOS	6.346	51348	9365.01		13C4-PFOS	6.347	47635	2.9984	ng/ml			
507.0 -> 99.0			19022.50	52.8								
13C8-PFOSA	7.751	91004	64342.44		13C4-PFOS	6.347	47635	3.0214	ng/ml			
13C9-PFNA	5.713	170933	15455.95		13C5-PFNA	5.714	170676	1.4686	ng/ml			
13C5-PFPeA	2.953	495705	11767.14		13C2-PFHxA	3.853	222855	6.0230	ng/ml			
13C2-PFDoA	7.078	139920	29465.99		13C2-PFDA	6.189	141930	1.4953	ng/ml			
13C4-PFHpA	4.574	311622	24473.77		13C2-PFHxA	3.853	222855	3.0336	ng/ml			
13C4-PFBA	1.757	806103	268107.40		13C3-PFBA	1.760	317483	11.6945	ng/ml			
13C3-PFHxS	5.284	66823	16611.25		18O2-PFHxS	5.283	55846	2.9300	ng/ml			
402.0 -> 99.0			12621.83	51.0								
13C3-PFBS	3.782	95045	11595.87		18O2-PFHxS	5.283	55846	3.1490	ng/ml			
301.9 -> 98.9			11881.85	36.0								
13C3-HFPODA	4.120	325025	27331.22		13C2-PFHxA	3.853	222855	12.6532	ng/ml			
287.0 -> 185.0			15280.63	45.1								
13C2-PFTeDA	7.893	126343	18675.68		13C2-PFDA	6.189	141930	1.5681	ng/ml			
D9-NEtFOSE	9.403	450610	160652.78		13C4-PFOS	6.347	47635	35.9763	ng/ml			
D3-NMeFOSA	9.210	29818	10641.99		13C4-PFOS	6.347	47635	3.0866	ng/ml			
D3-NMeFOSAA	6.252	198702	26003.58		13C4-PFOS	6.347	47635	6.4391	ng/ml			
D5-NEtFOSA	9.555	32644	12379.16		13C4-PFOS	6.347	47635	3.2395	ng/ml			
D5-NEtFOSAA	6.455	99855	14033.61		13C4-PFOS	6.347	47635	6.3948	ng/ml			
D7-NMeFOSE	9.065	412063	192621.97		13C4-PFOS	6.347	47635	35.2029	ng/ml			

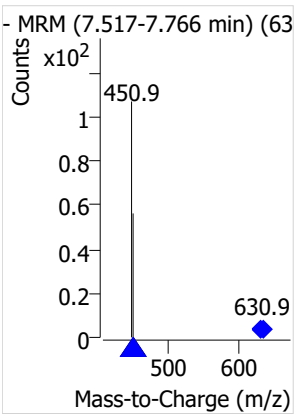
11Cl-PF3OUdS



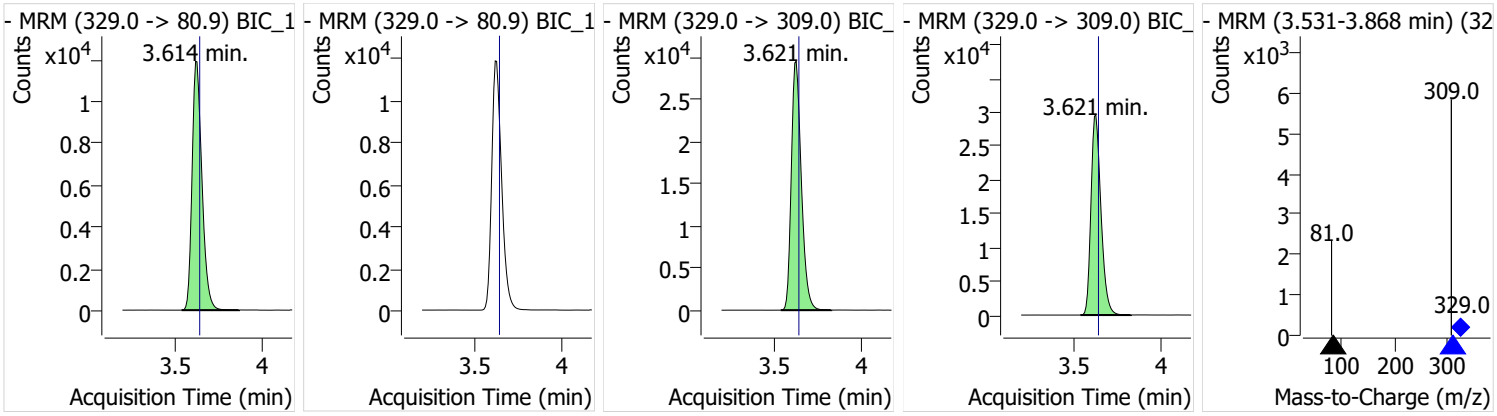




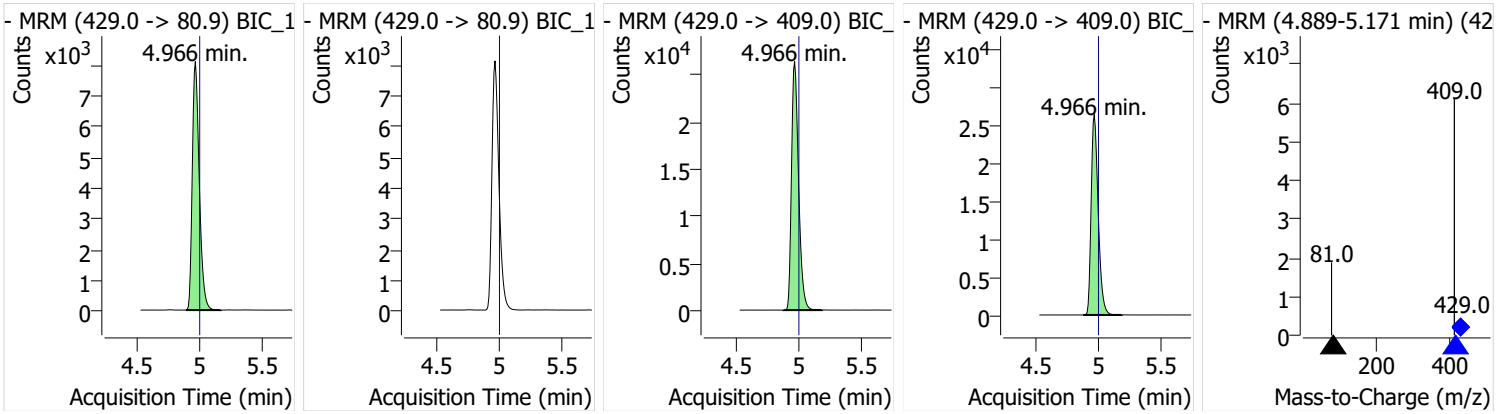




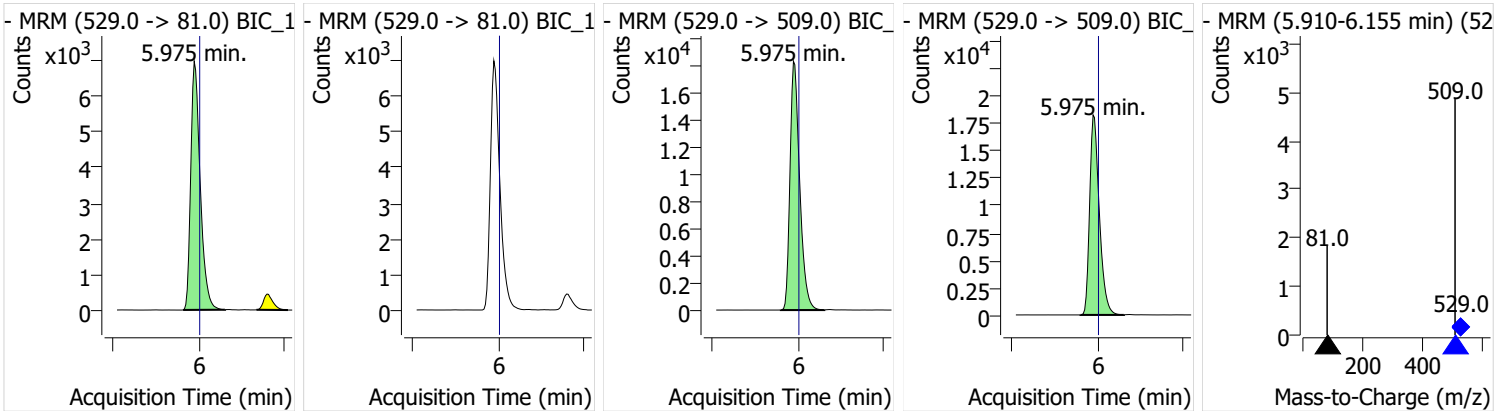
13C2-4:2FTS - ISTD



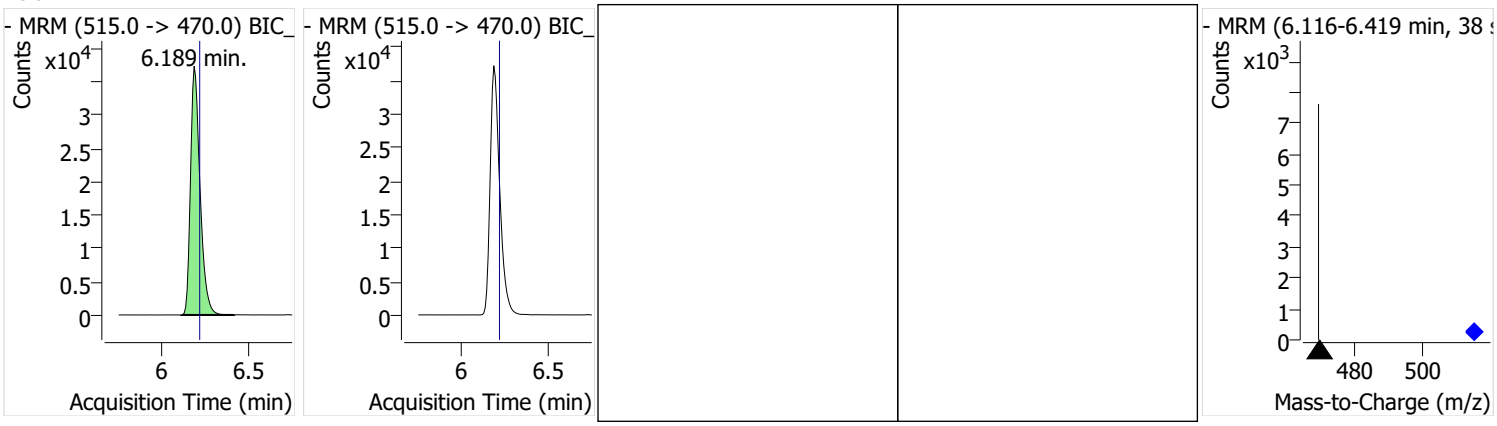
13C2-6:2FTS - ISTD



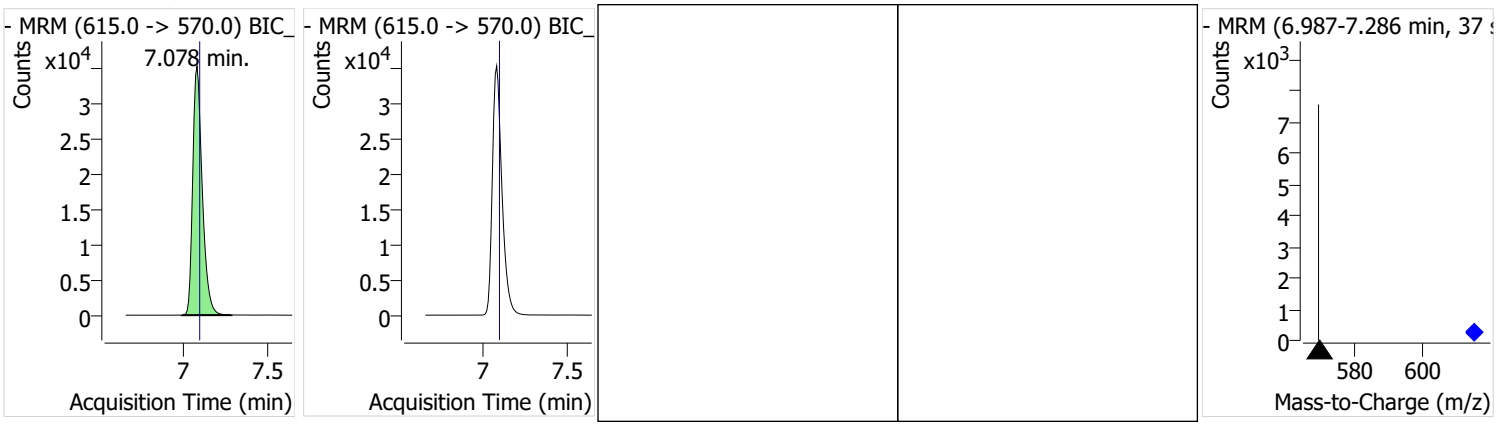
13C2-8:2FTS - ISTD



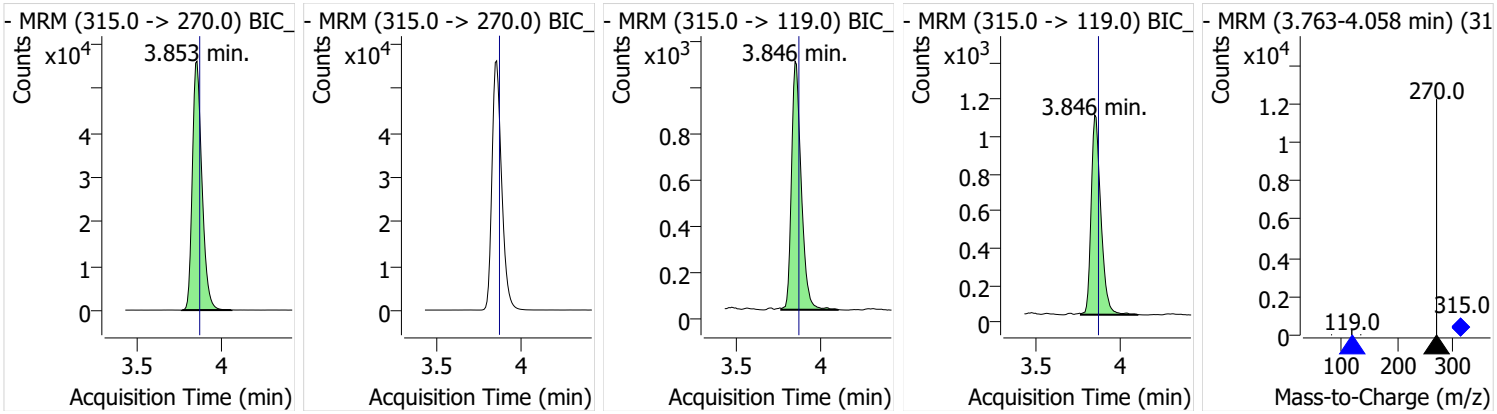
13C2-PFDA



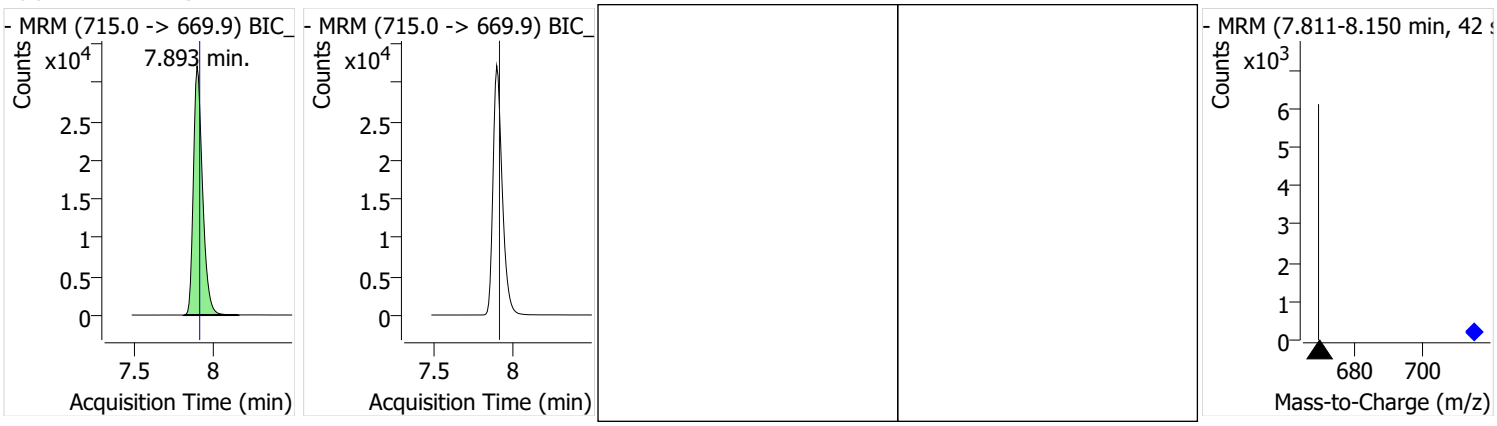
13C2-PFDoA - ISTD



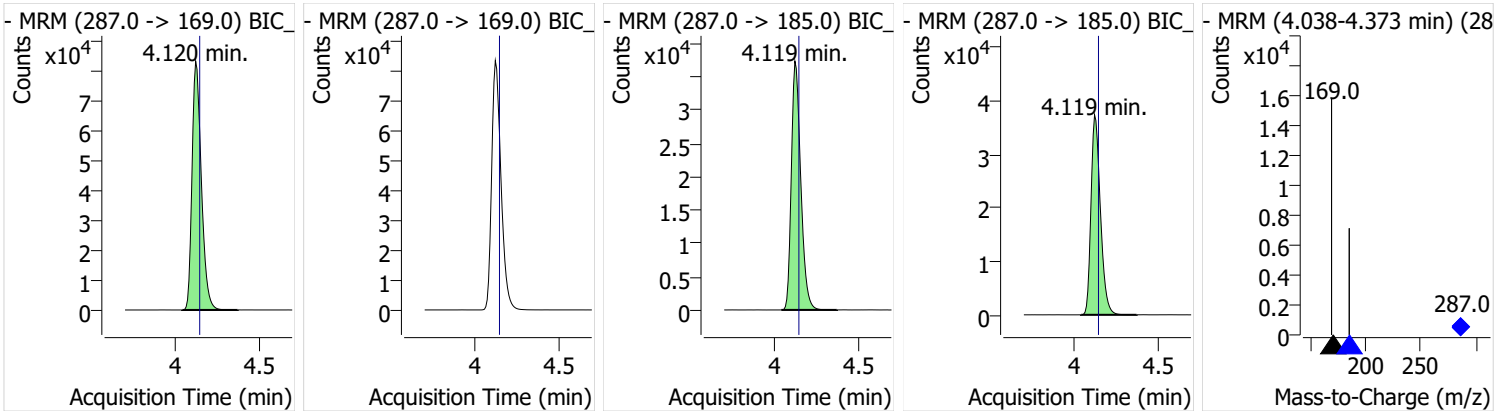
13C2-PFHxA



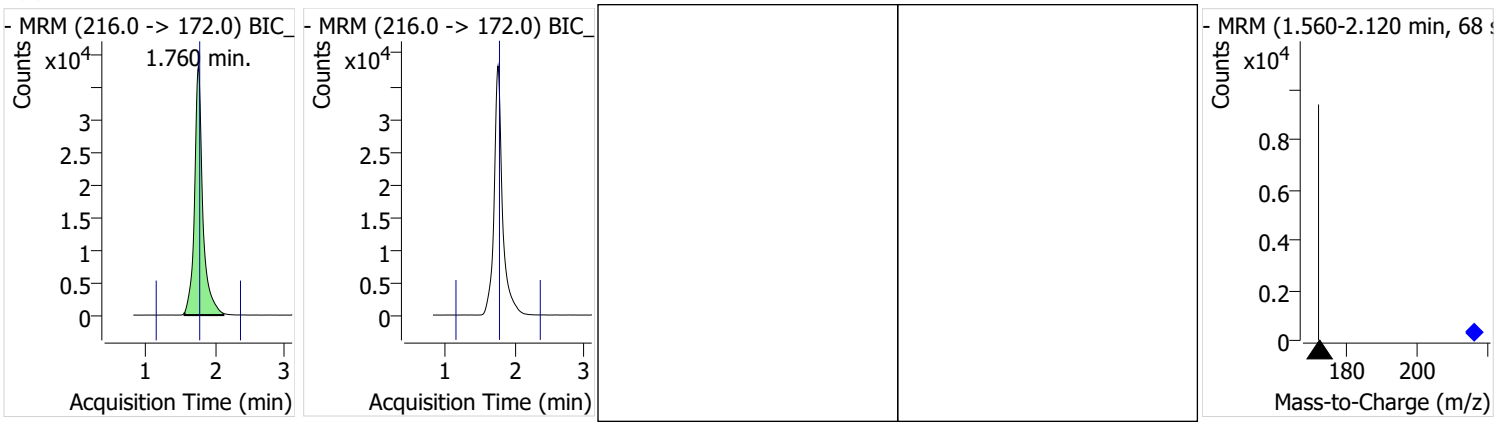
13C2-PFTeDA - ISTD



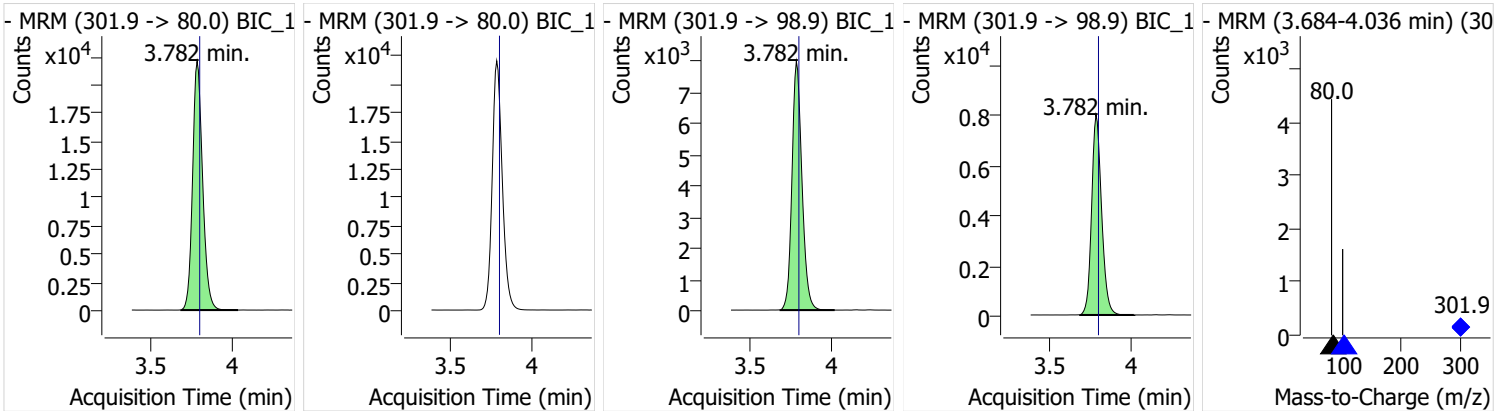
13C3-HFPODA - ISTD



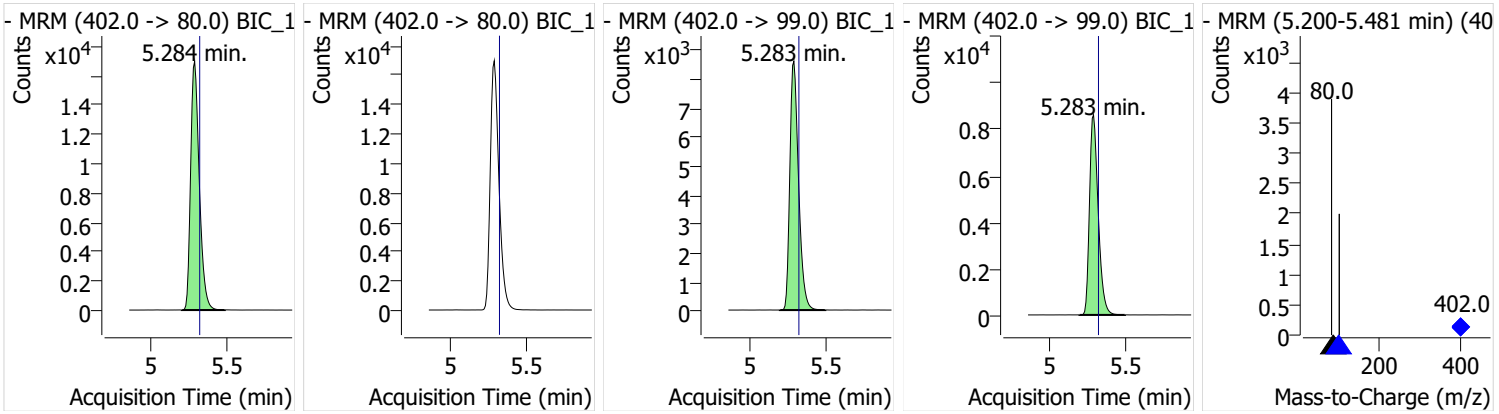
13C3-PFBA



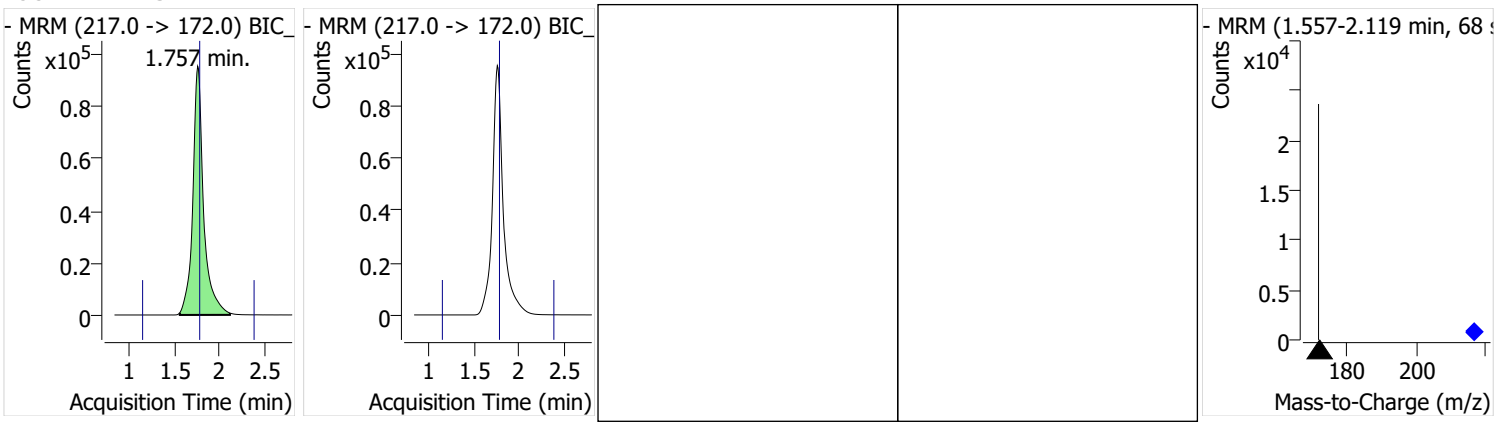
13C3-PFBS - ISTD



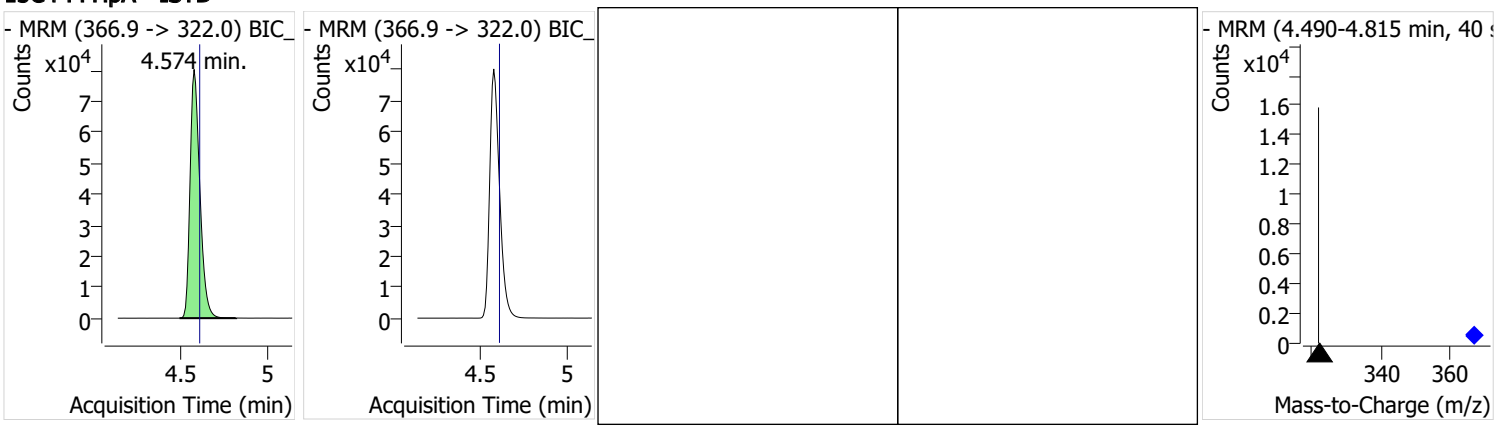
13C3-PFHxS - ISTD



13C4-PFBA - ISTD

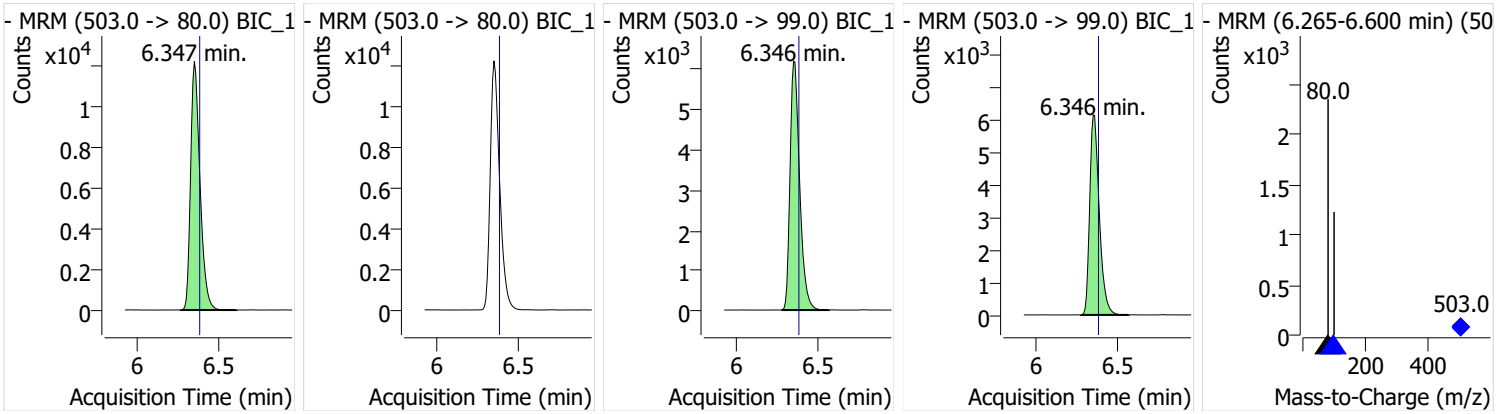


13C4-PFHpA - ISTD

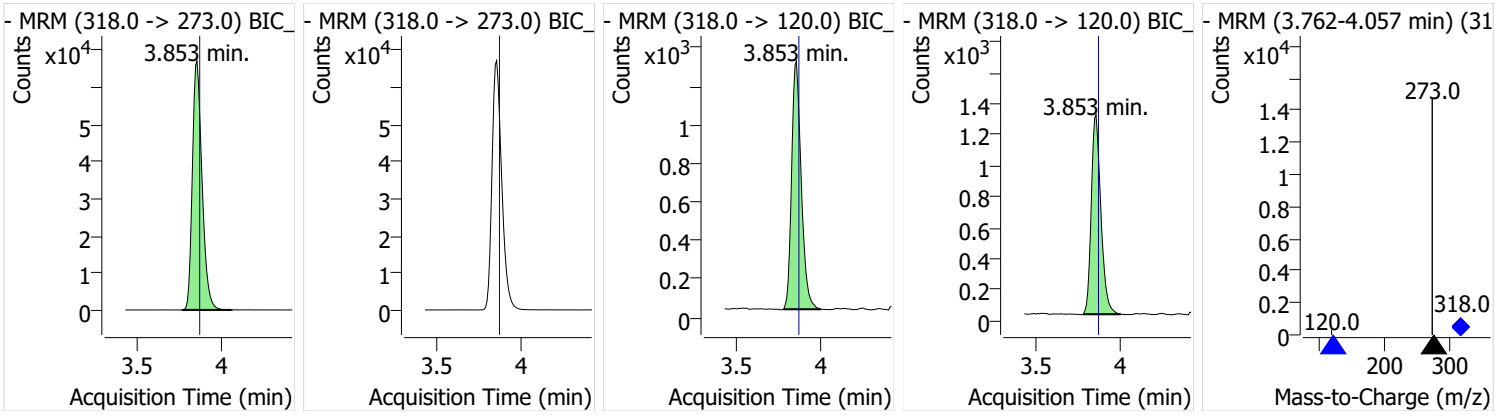


13C4-PFOA

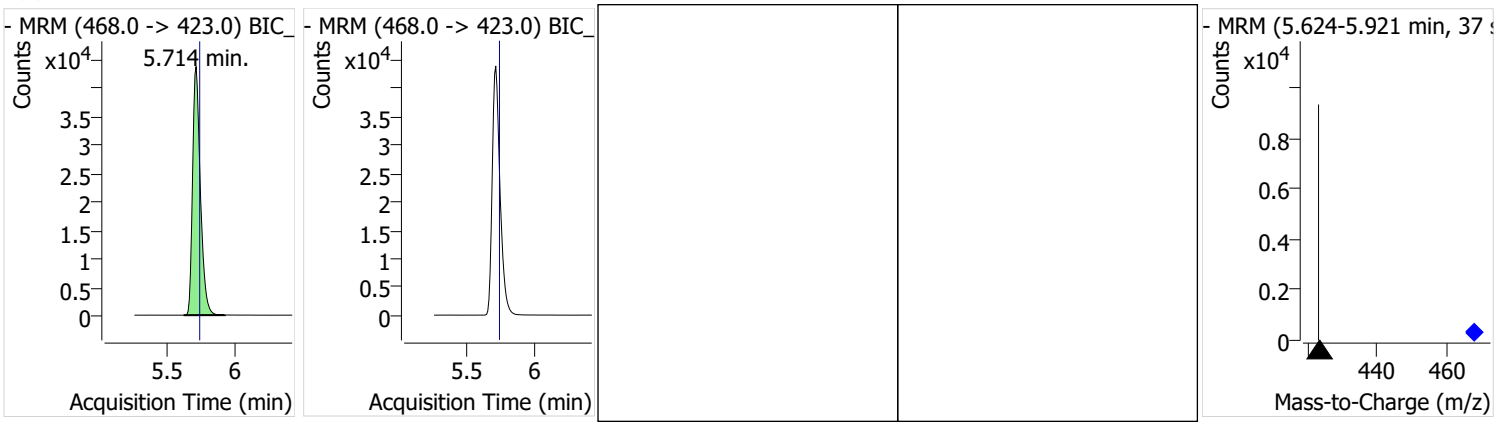
13C4-PFOS



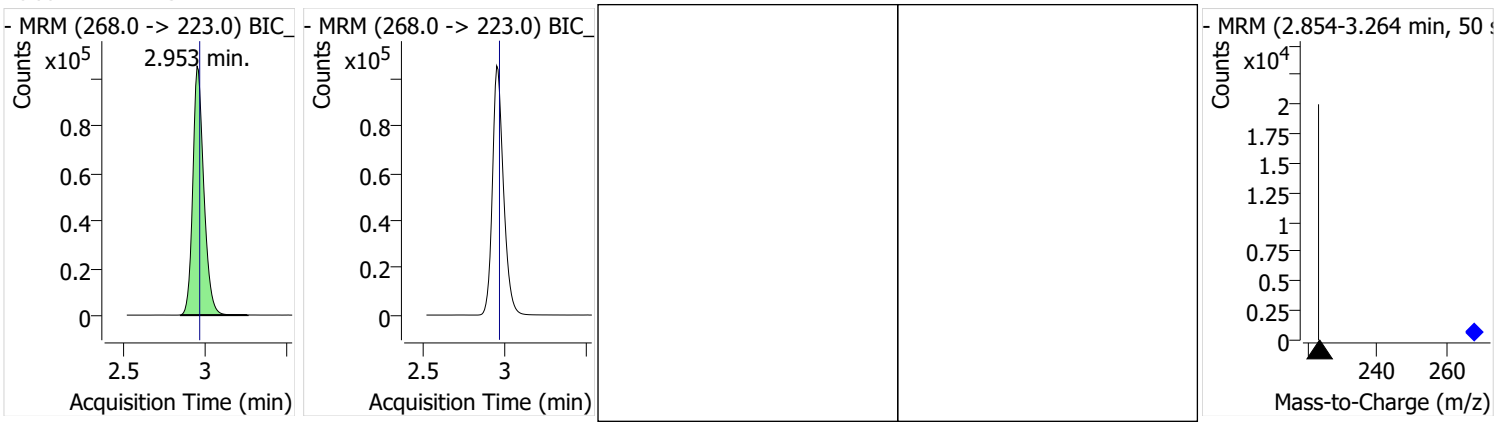
13C5-PFHxA - ISTD



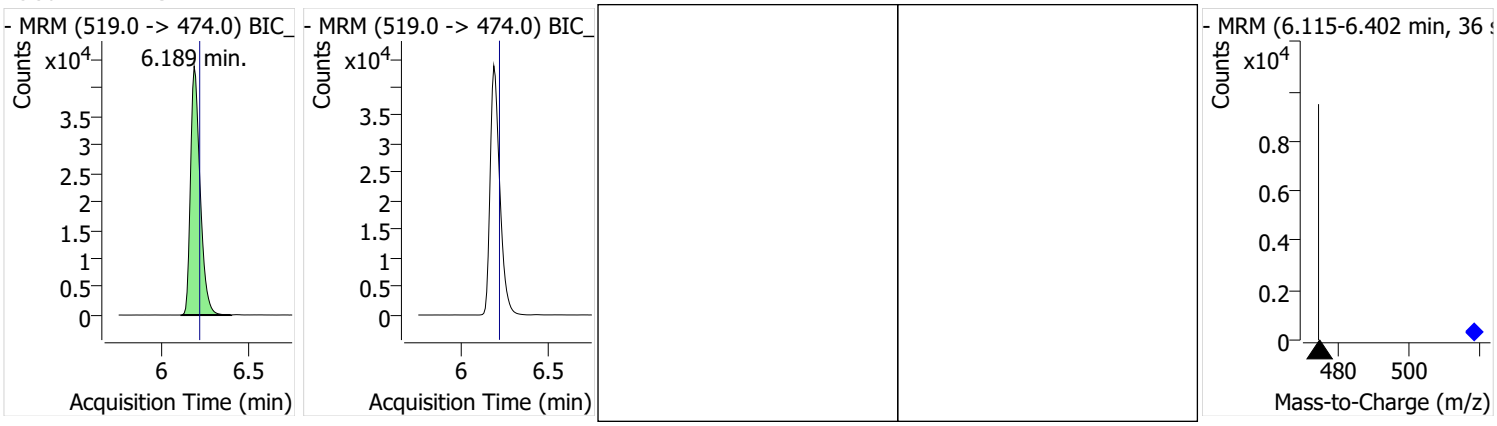
13C5-PFNA



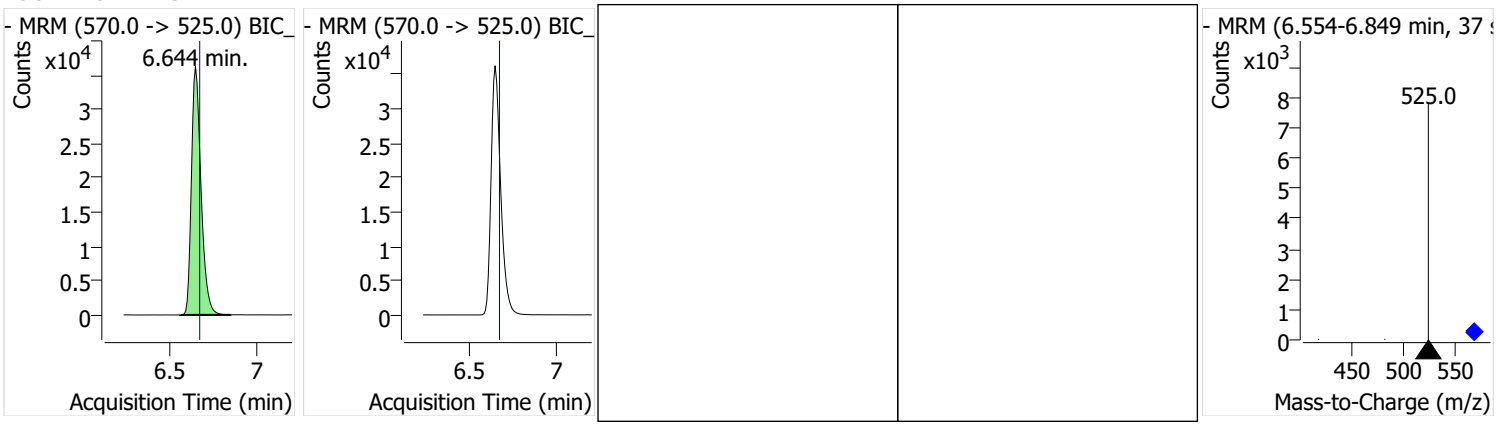
13C5-PFPeA - ISTD



13C6-PFDA - ISTD

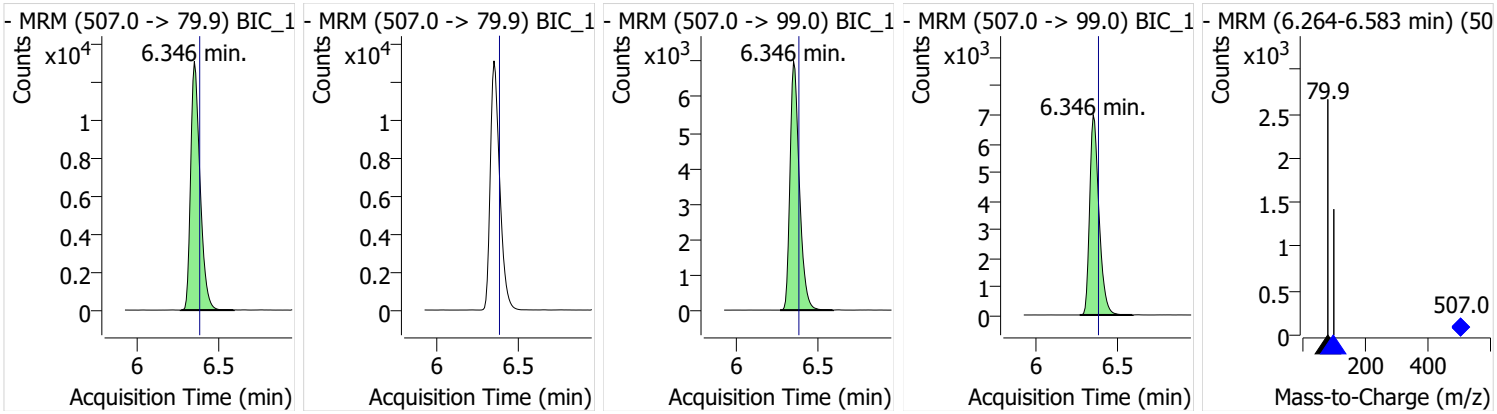


13C7-PFUnA - ISTD

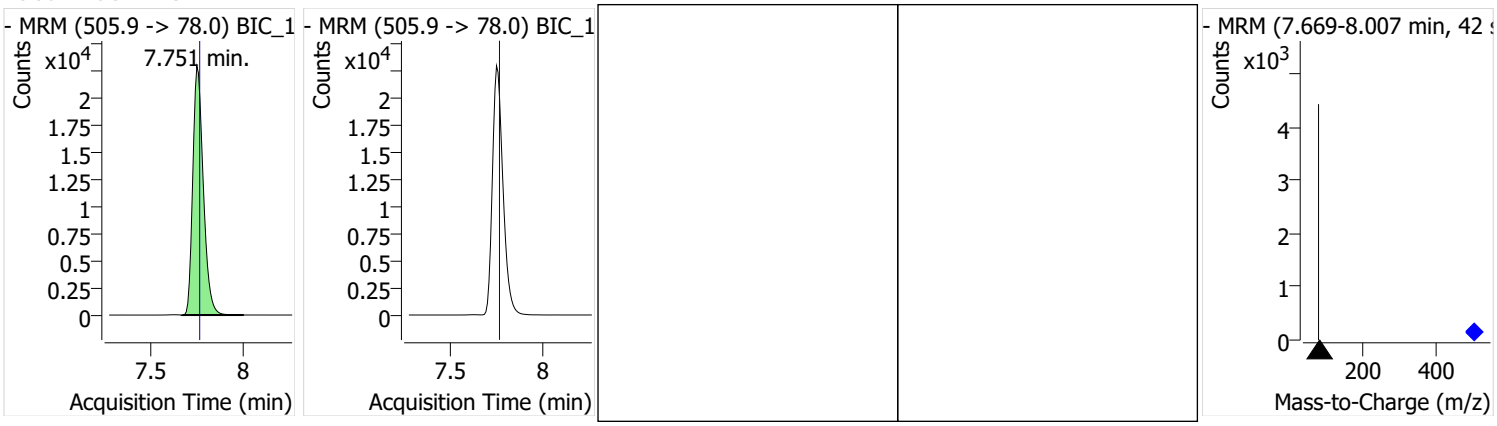


13C8-PFOA - ISTD

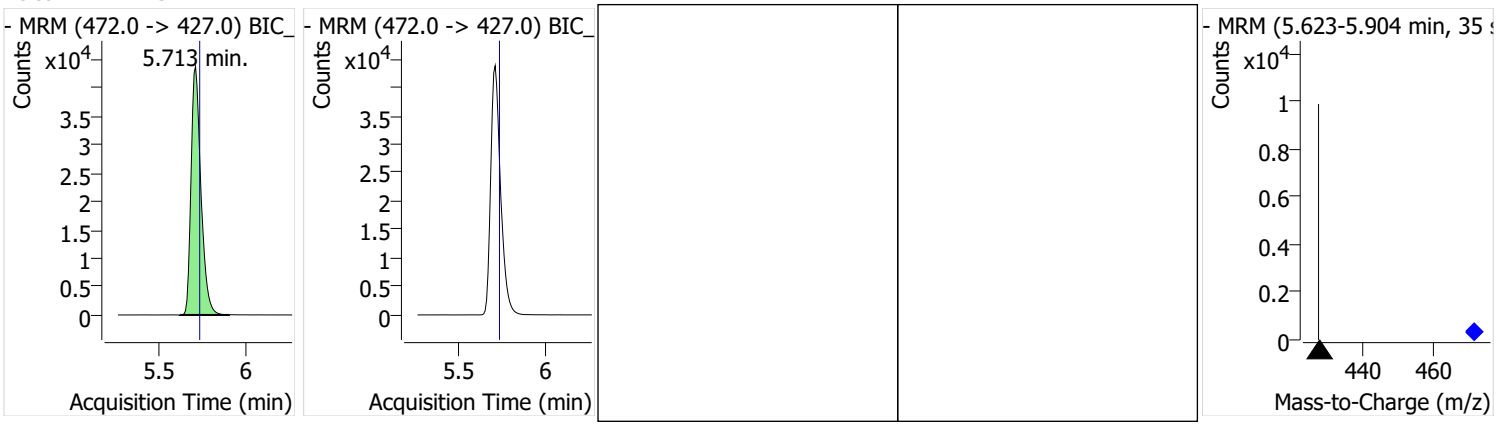
13C8-PFOS - ISTD



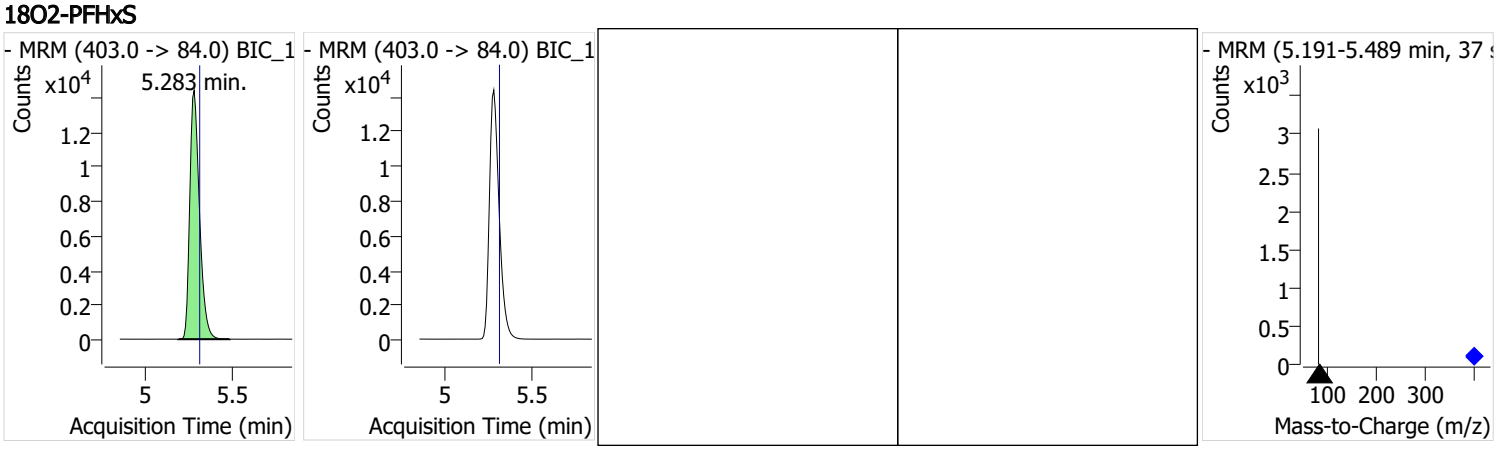
13C8-PFOSA - ISTD



13C9-PFNA - ISTD



18O2-PFHxS



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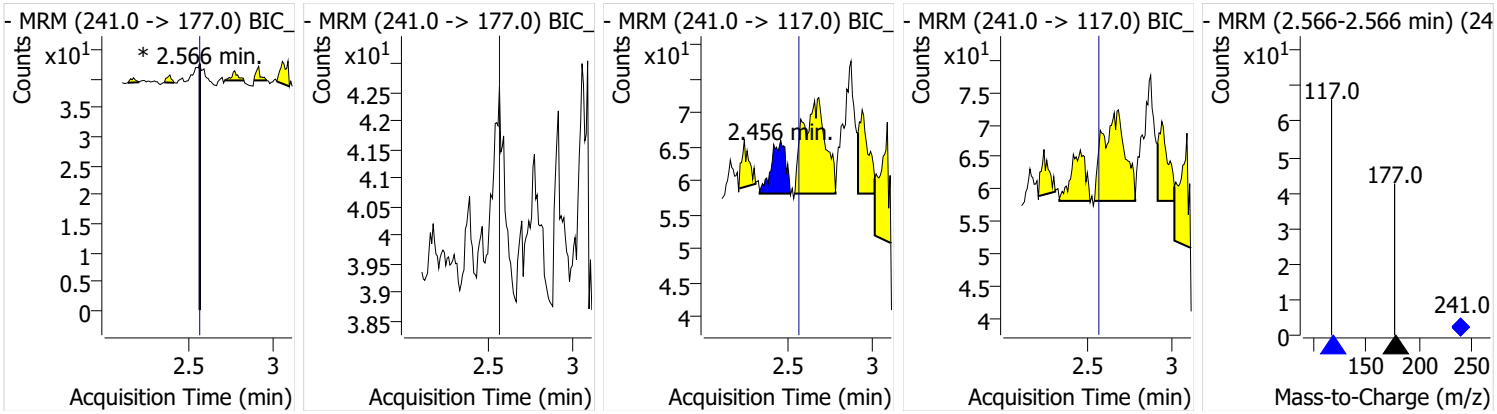
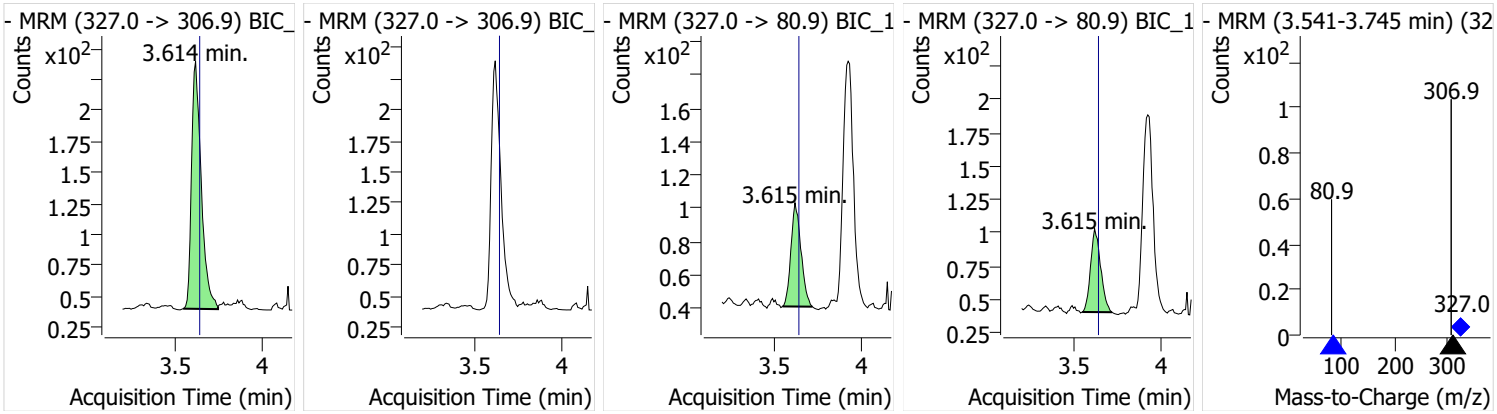


4:2FTS



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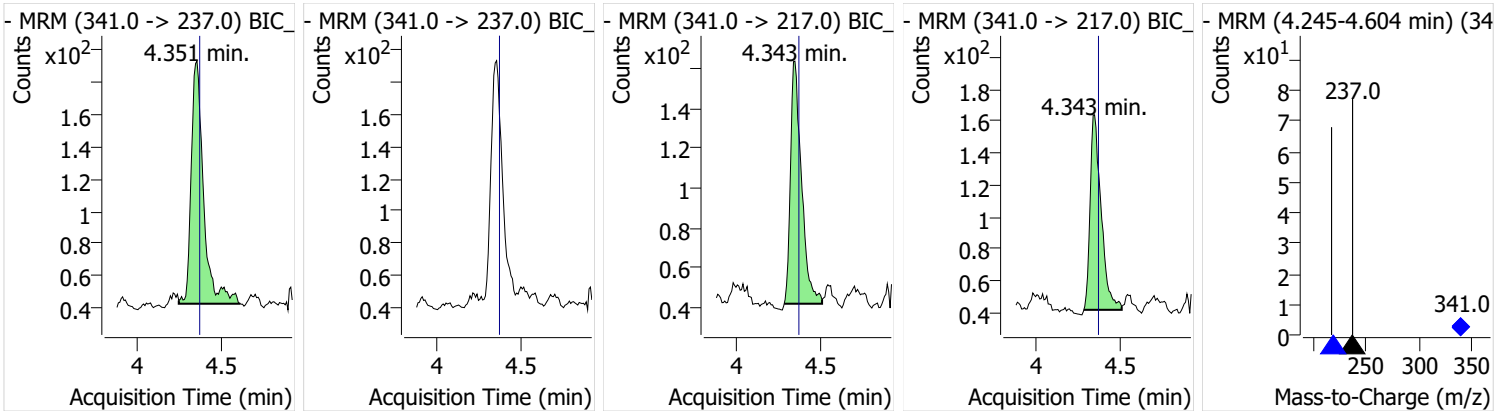

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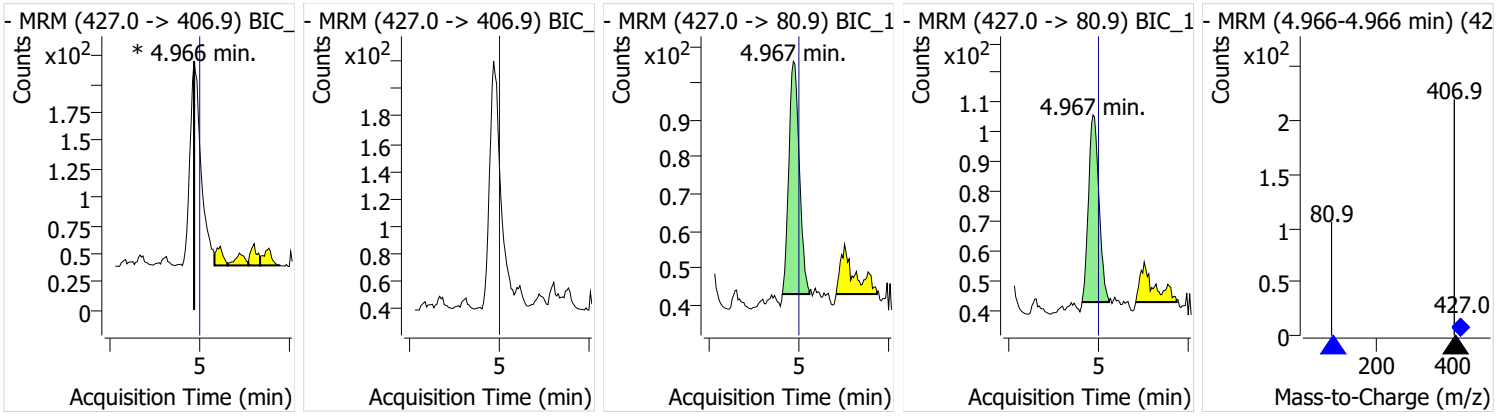

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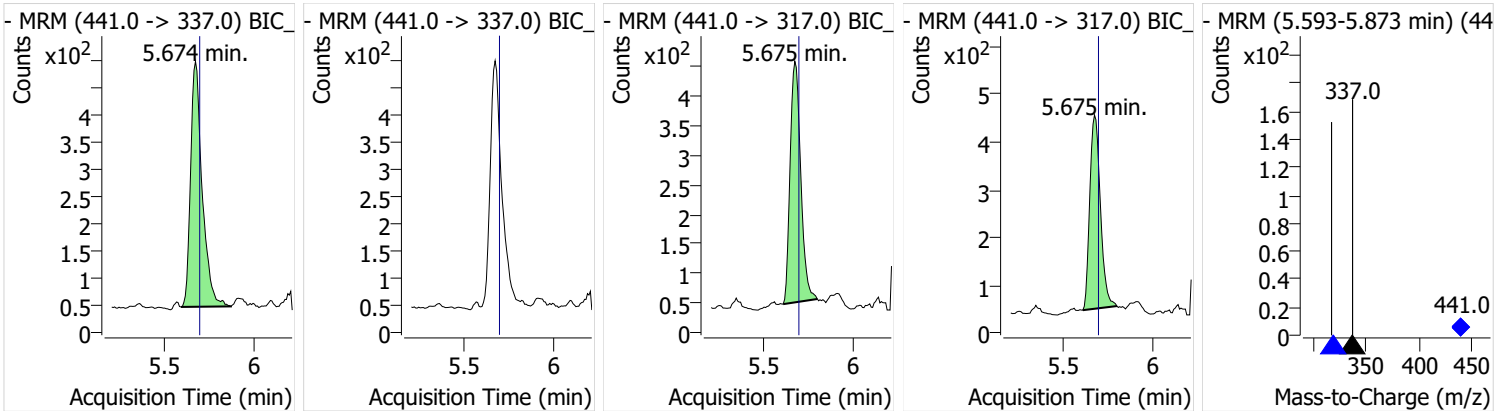
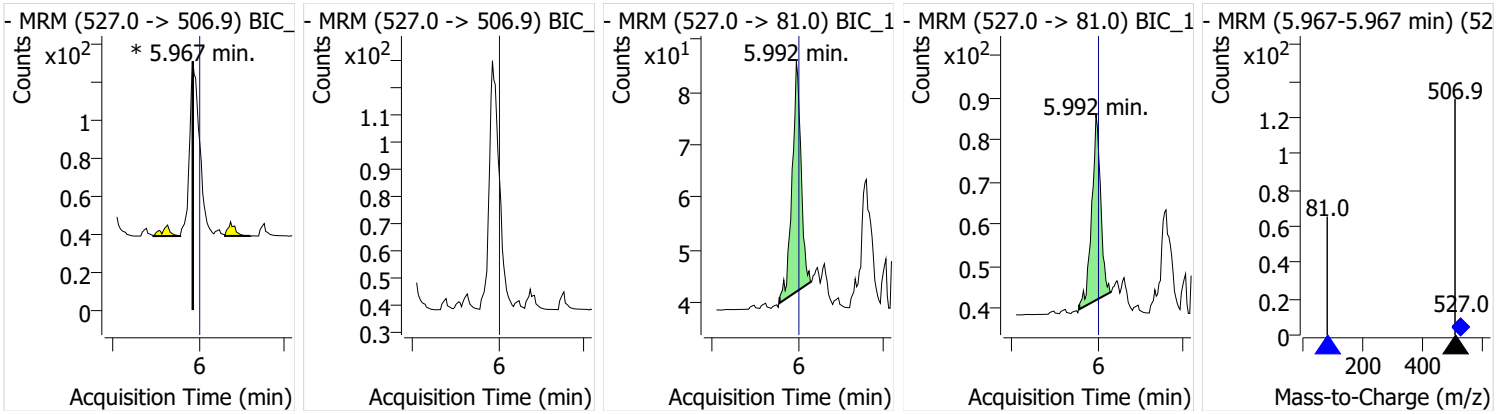
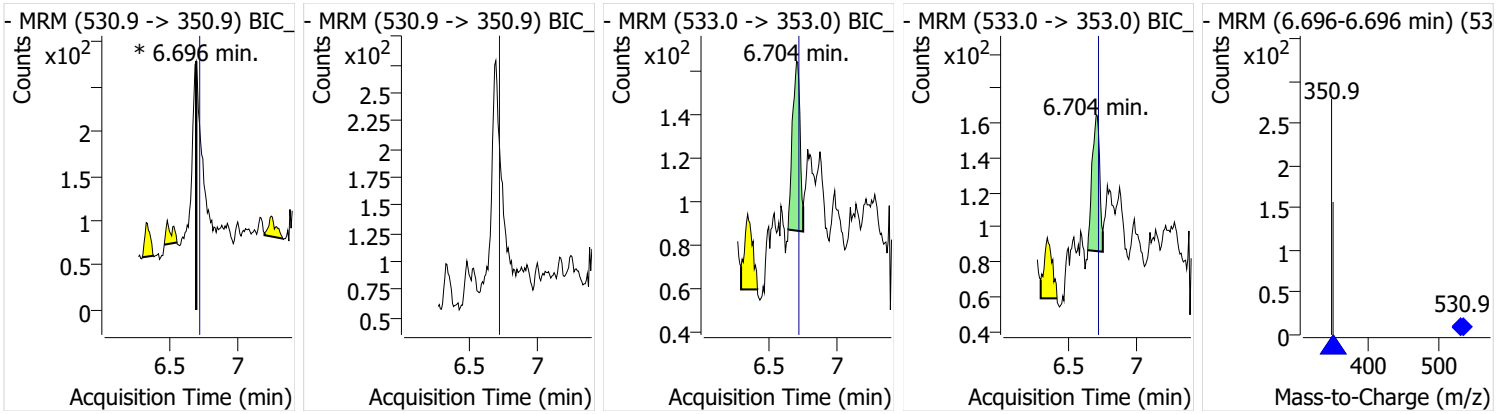


8:2FTS



9Cl-PF3ONS



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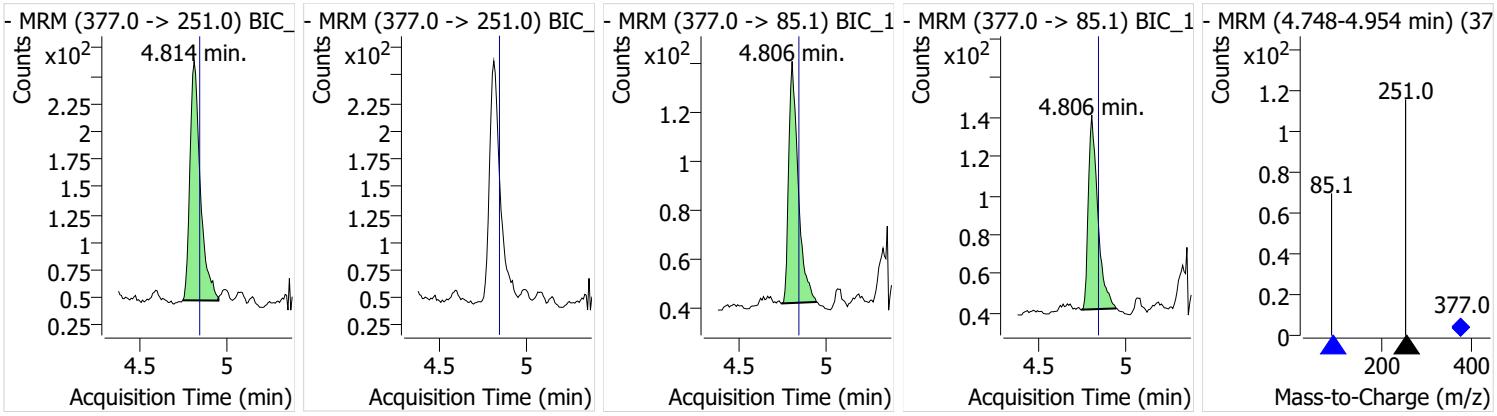
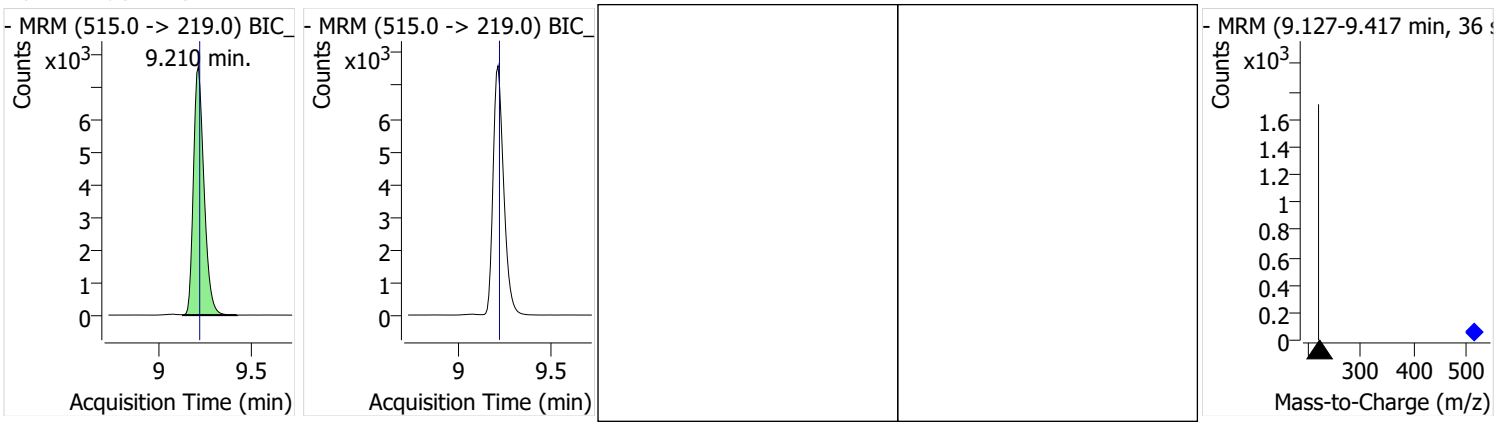
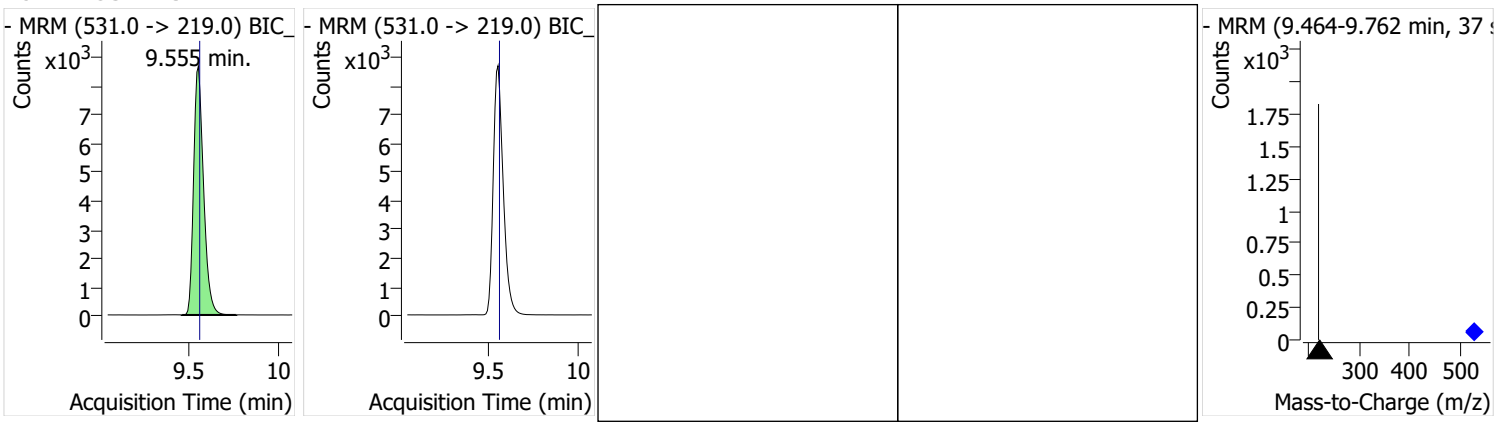


D3-NMeFOSA - ISTD

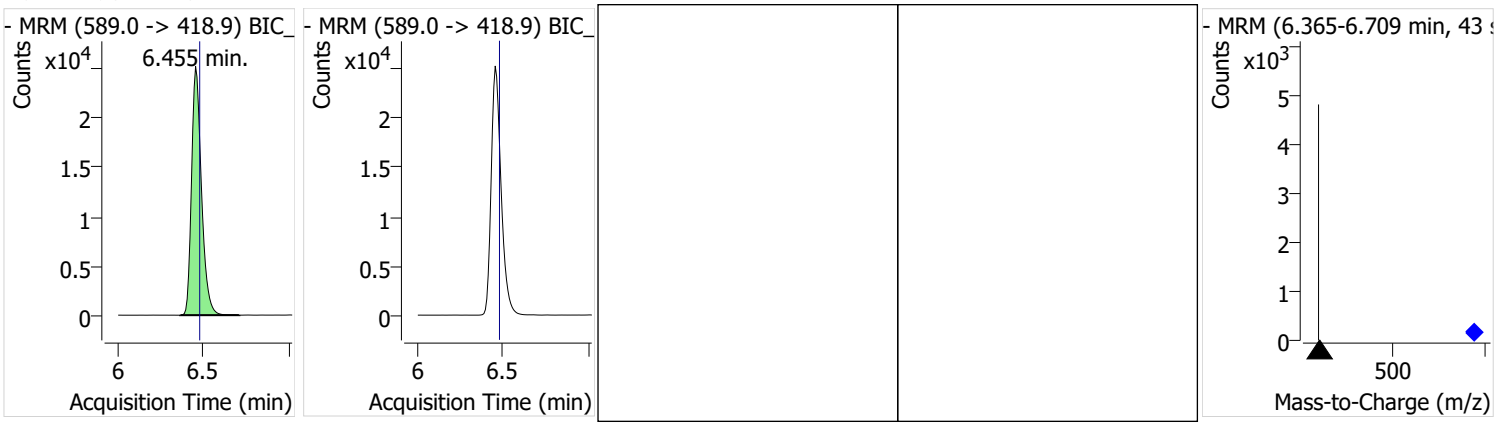


D3-NMeFOSAA - ISTD

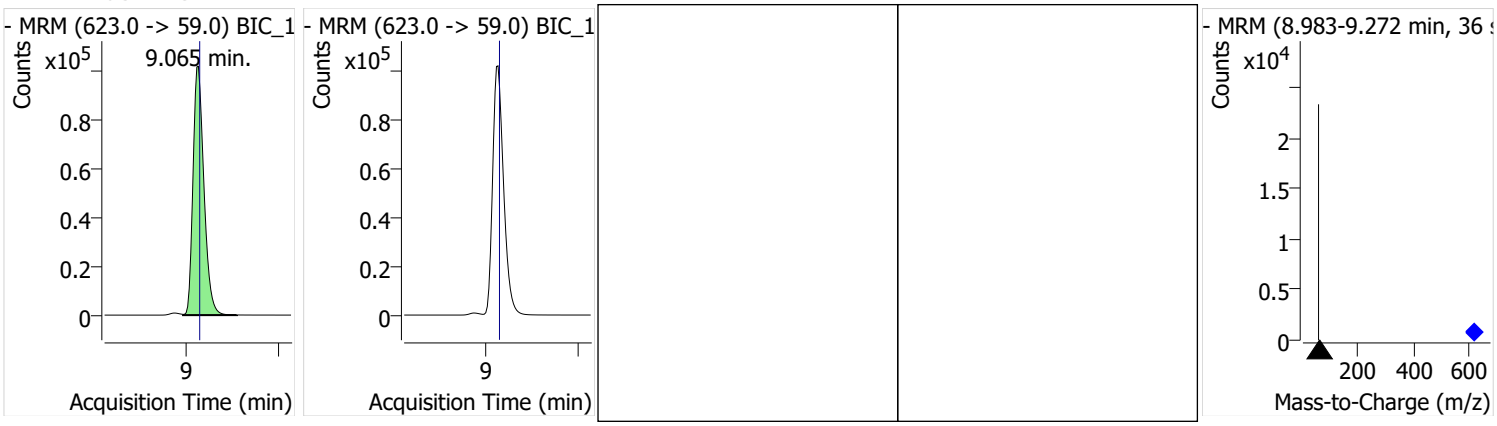
D5-NEtFOSA - ISTD



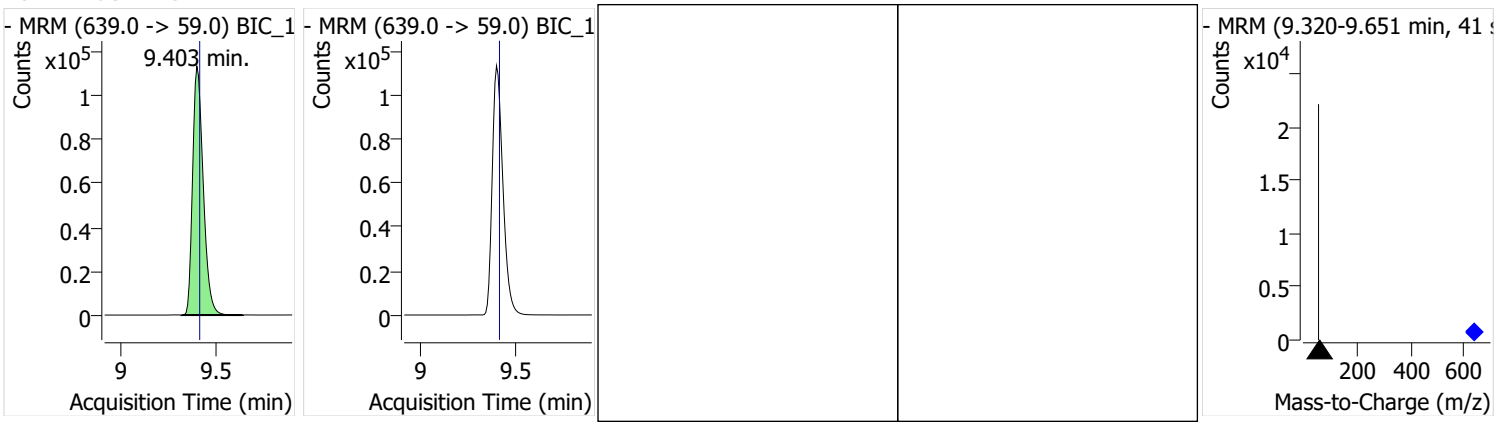
D5-NEtFOSAA - ISTD



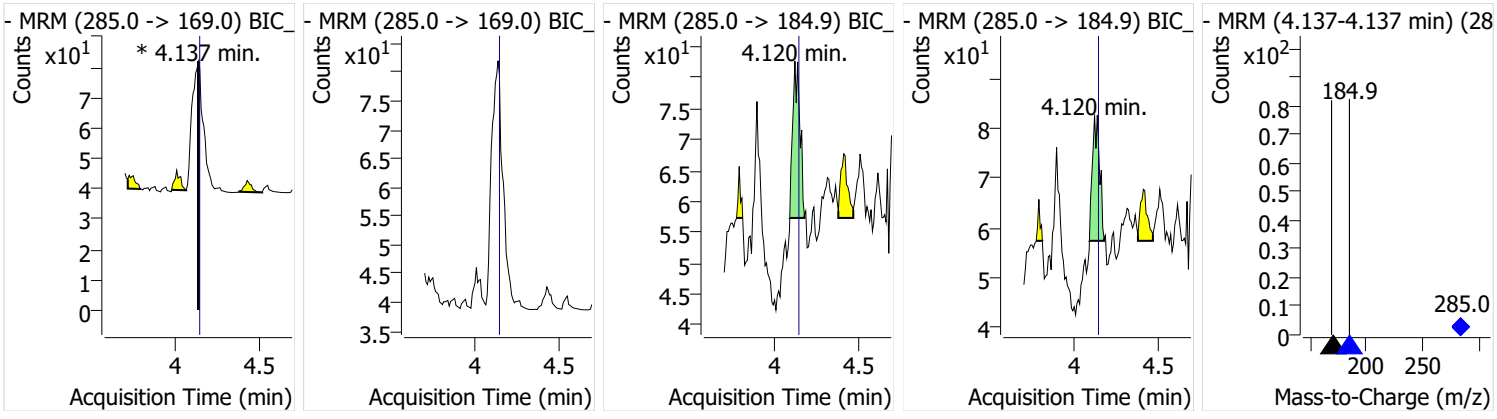
D7-NMeFOSE - ISTD



D9-NEtFOSE - ISTD



HFPO-DA



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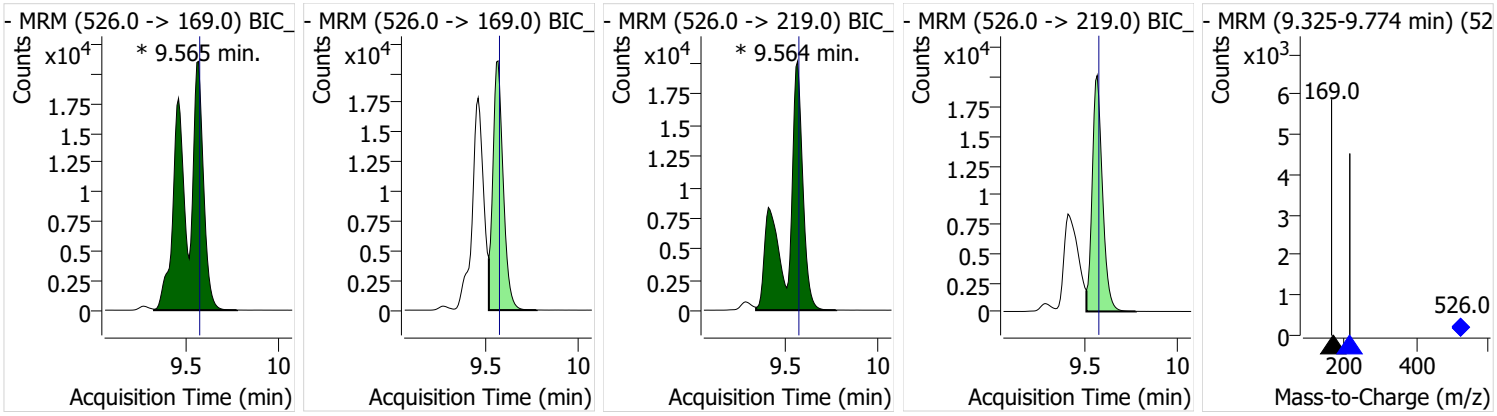

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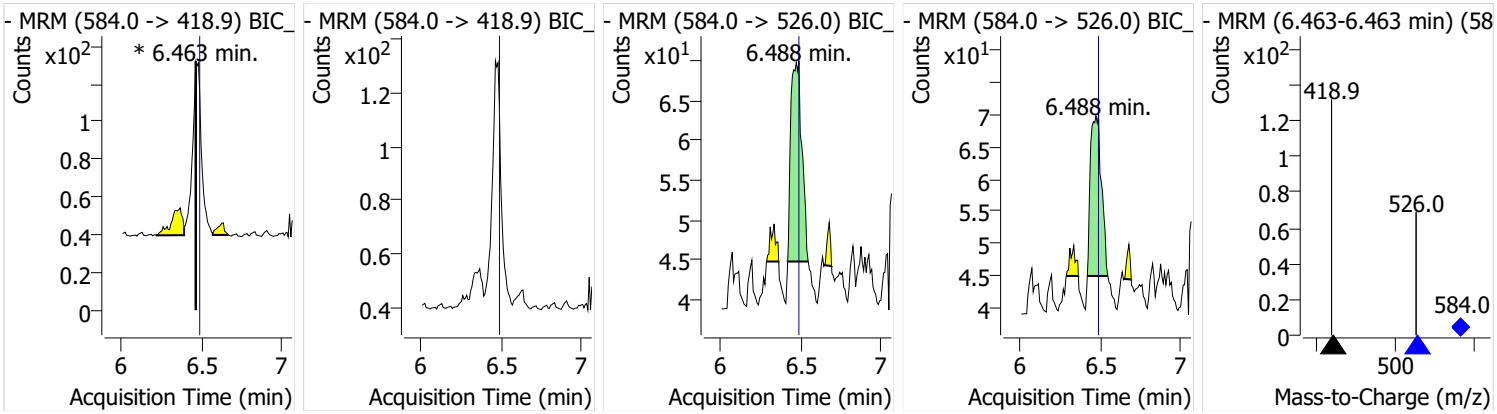

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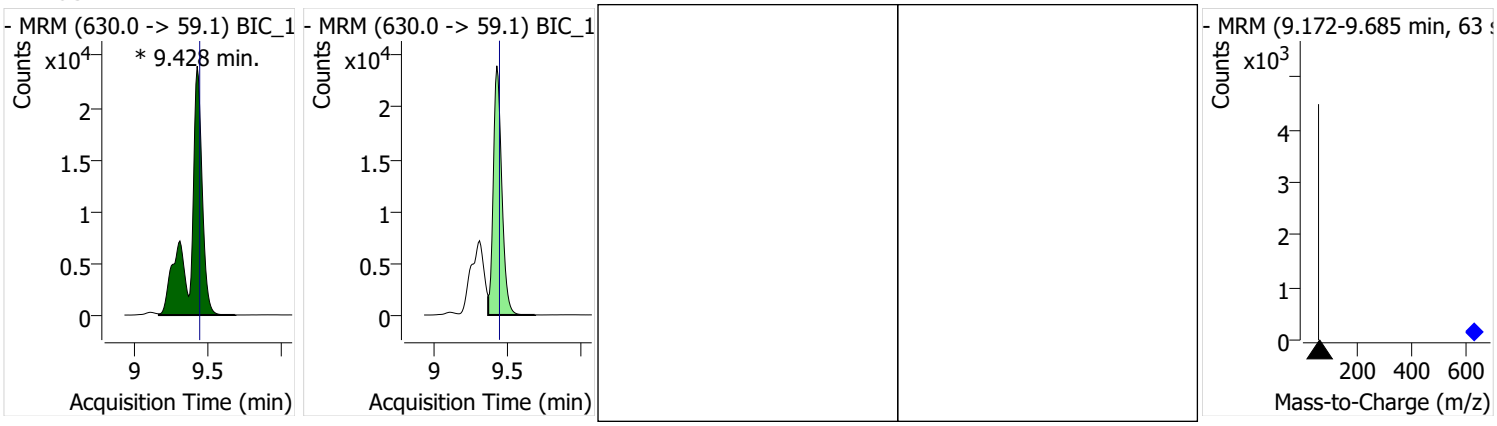

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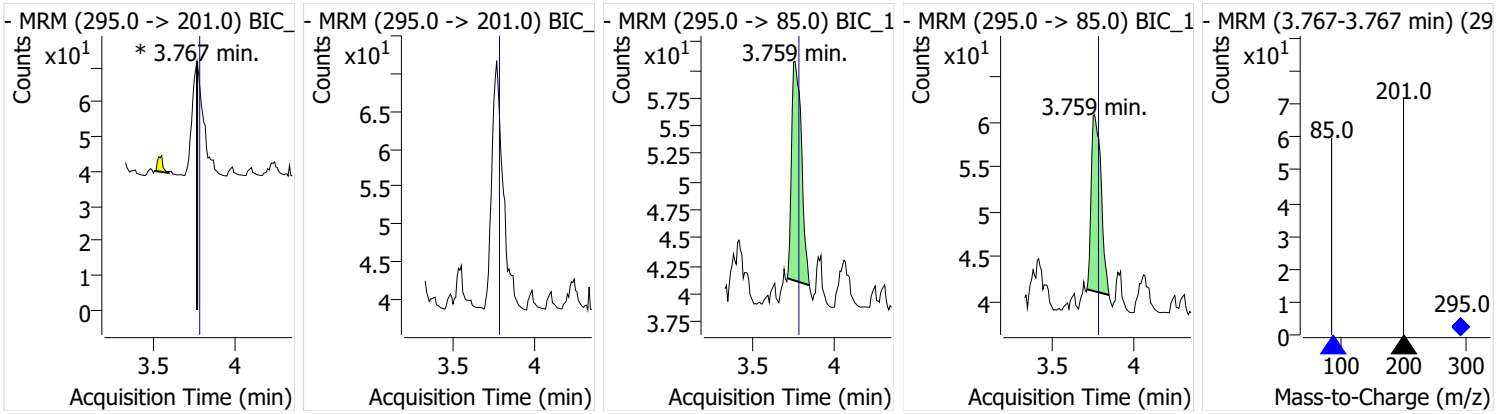
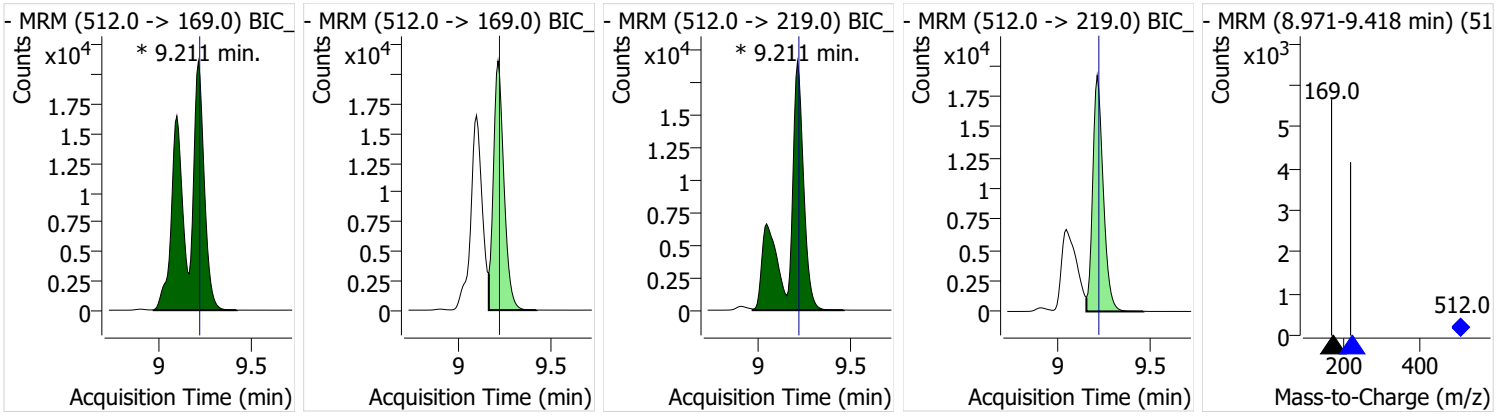


NMeFOSA



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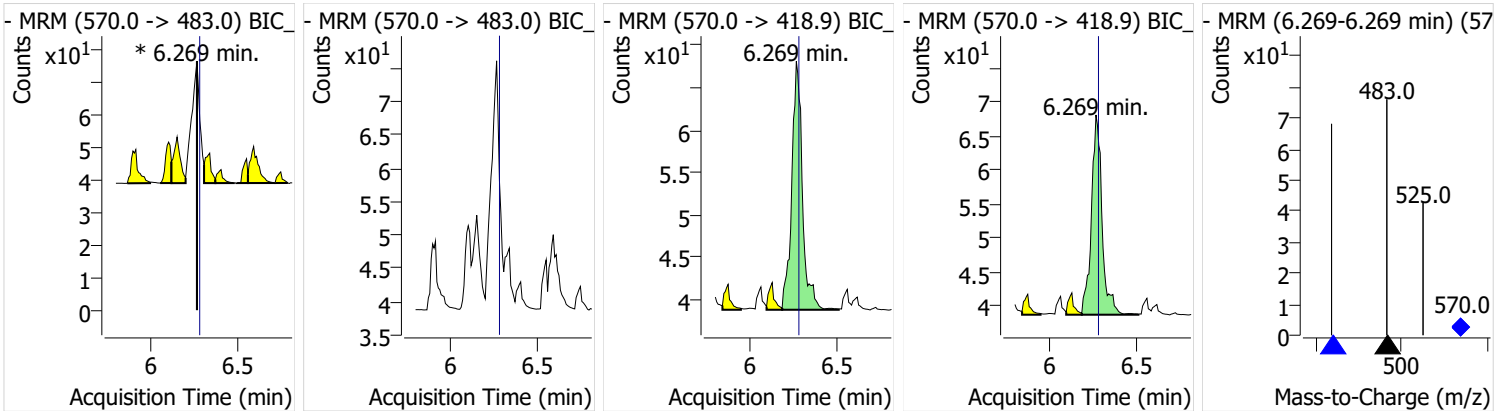

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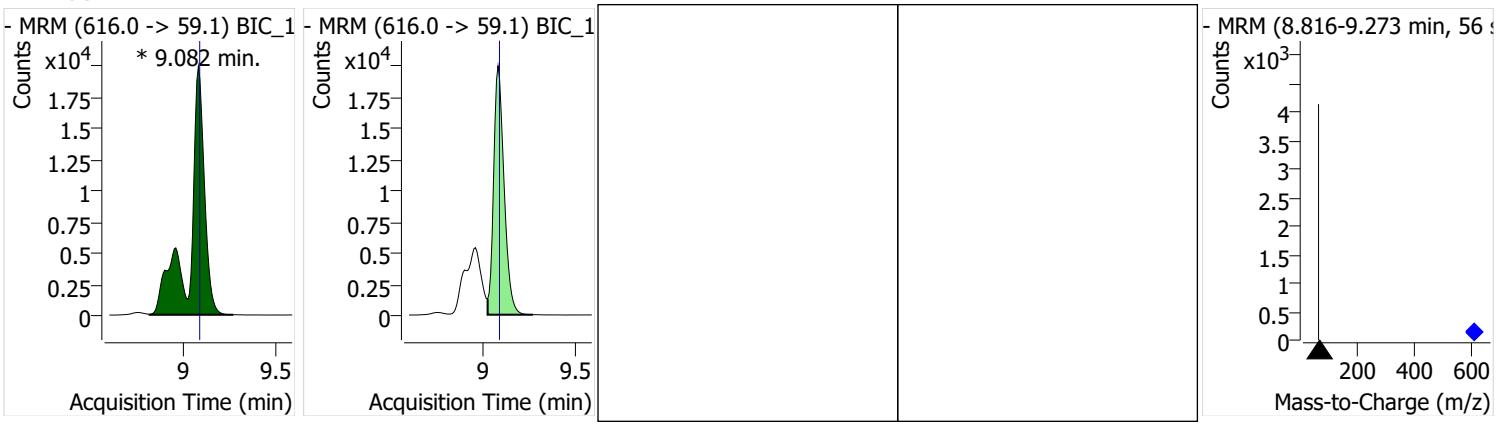
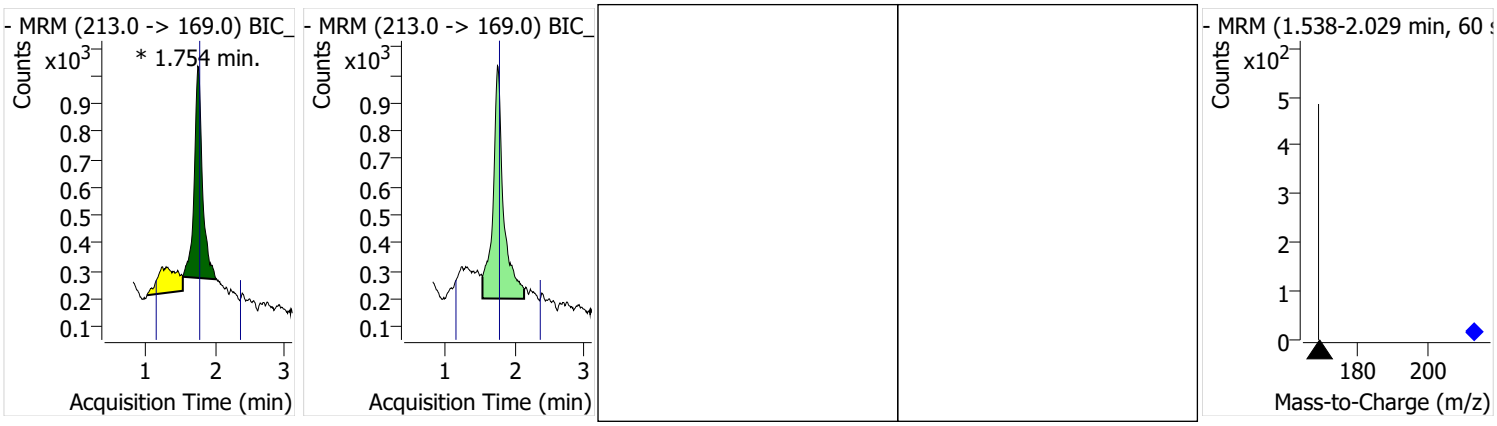


PFBA



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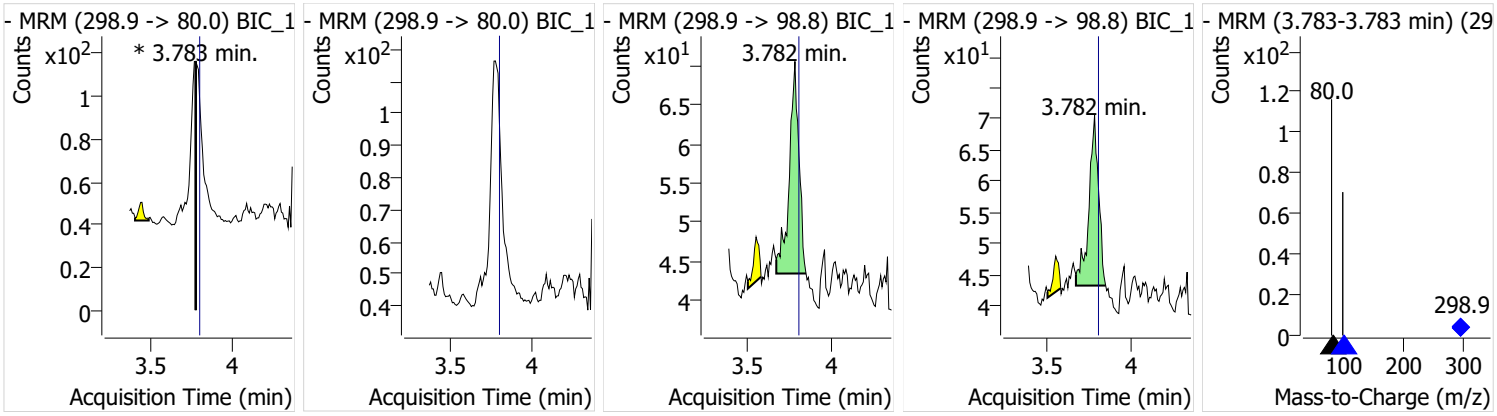

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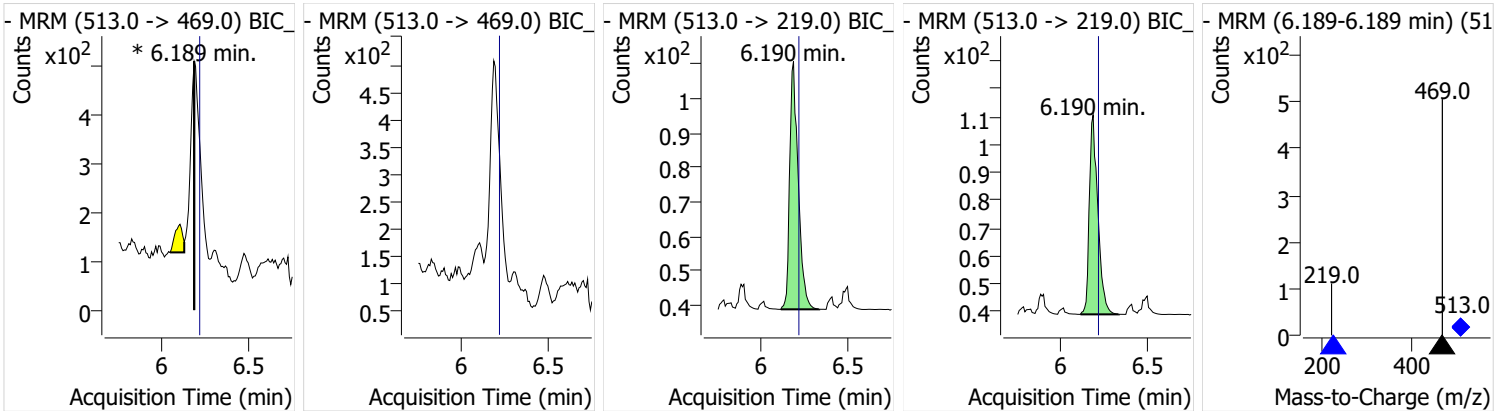
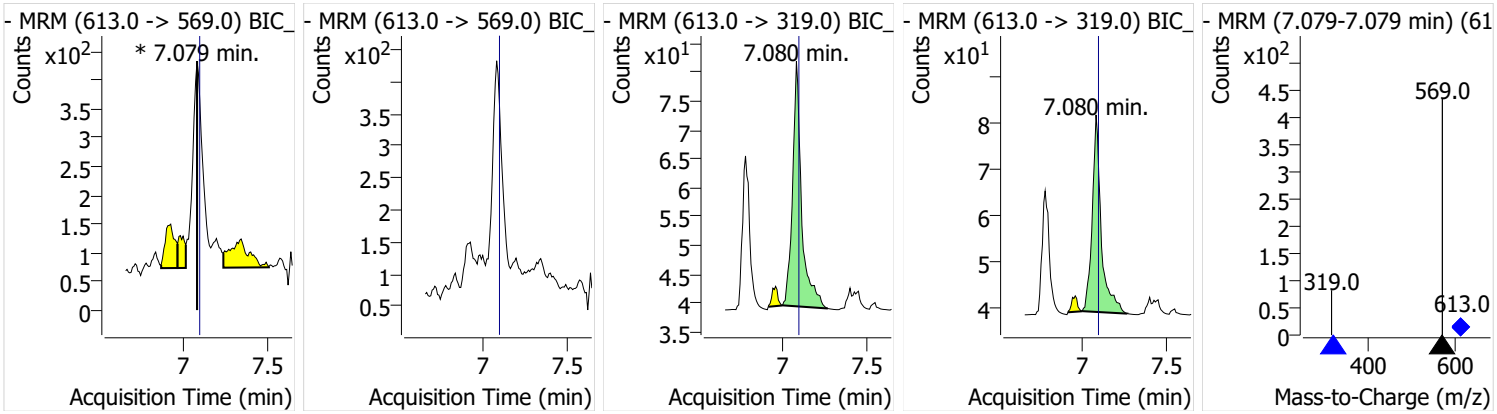
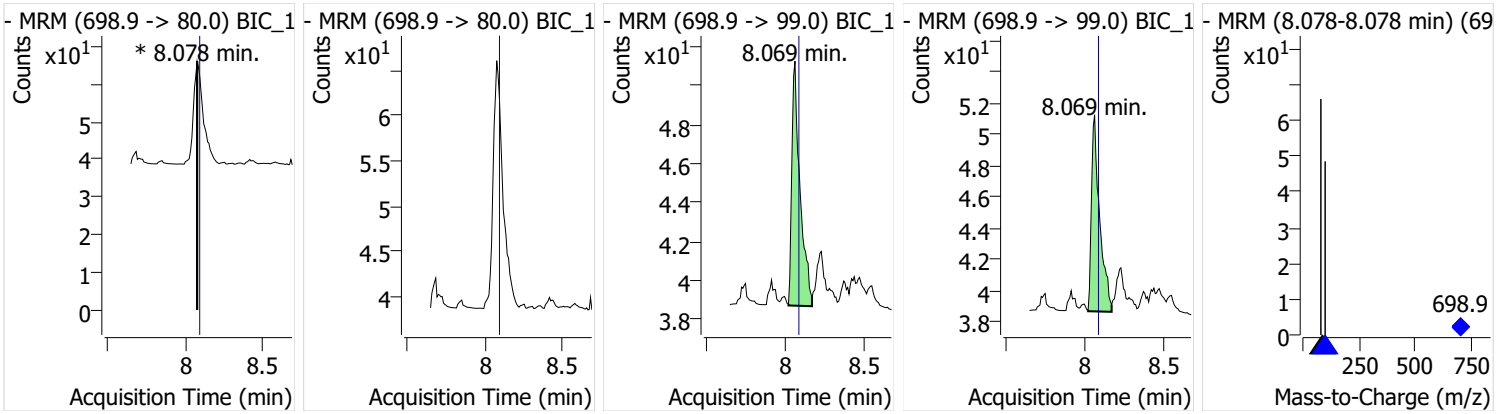


PFDoA



PFDoS



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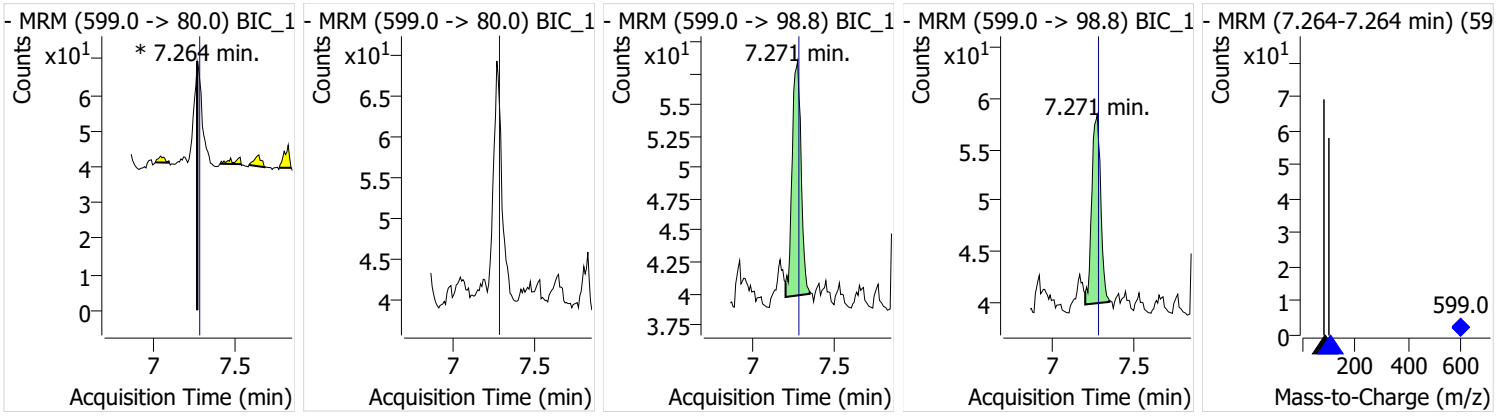

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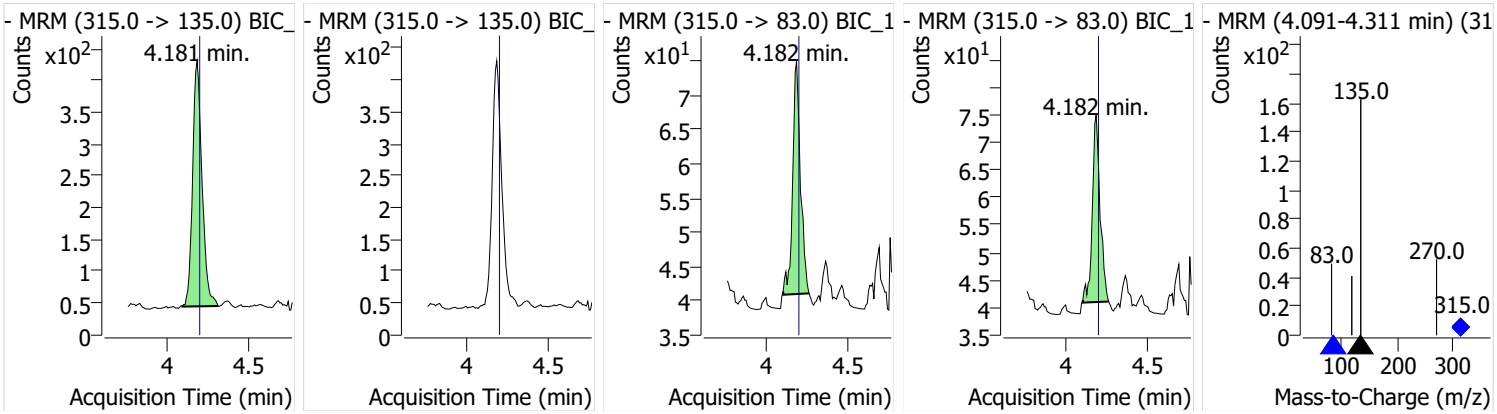
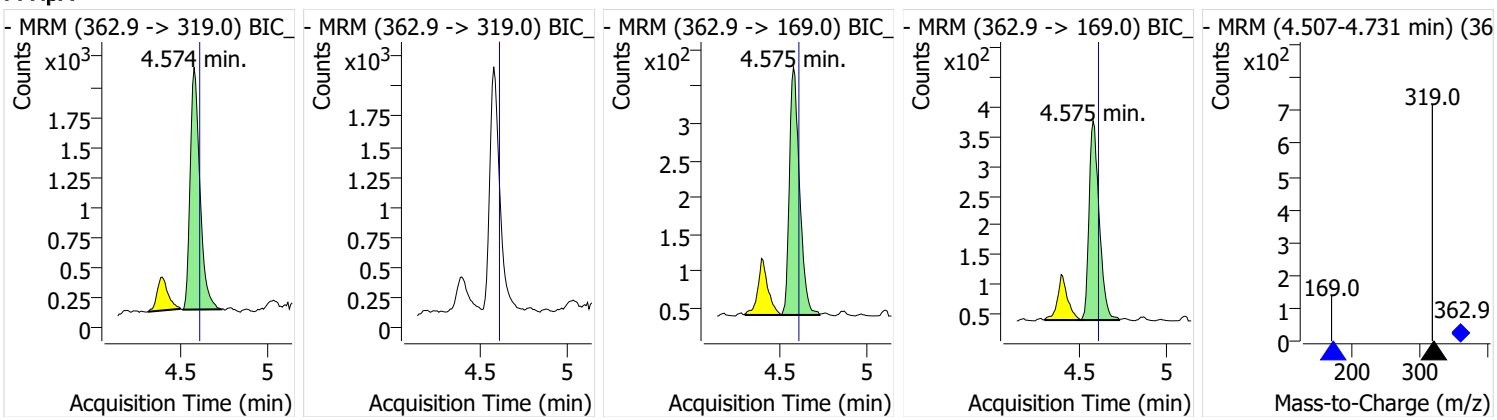
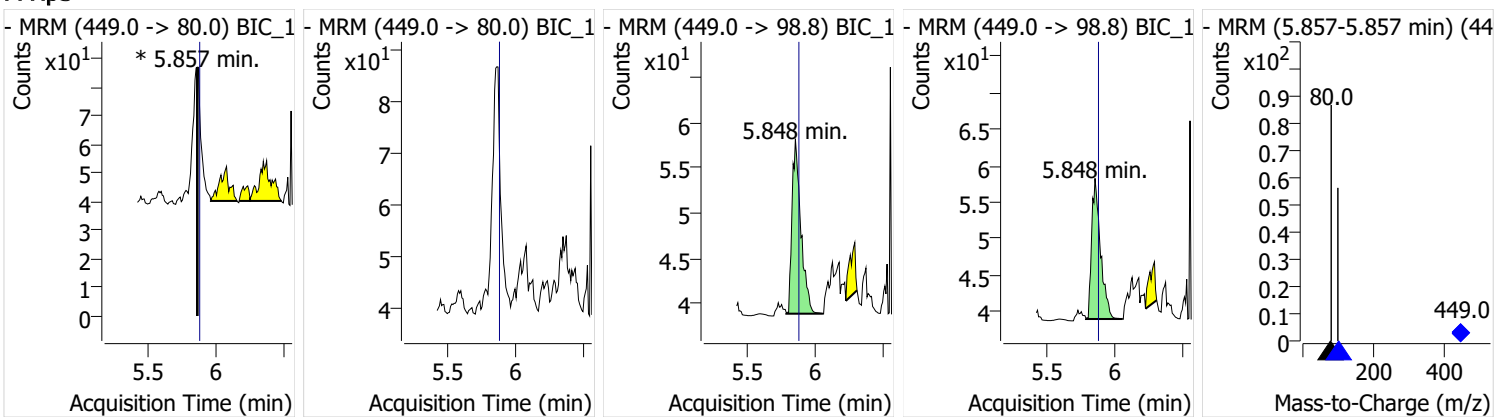


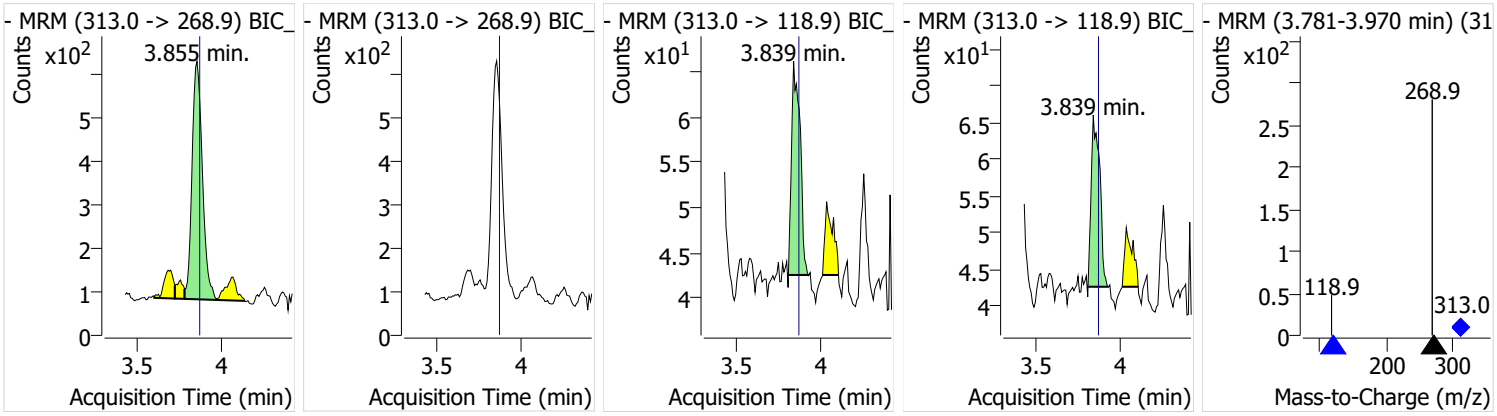
PFHpA



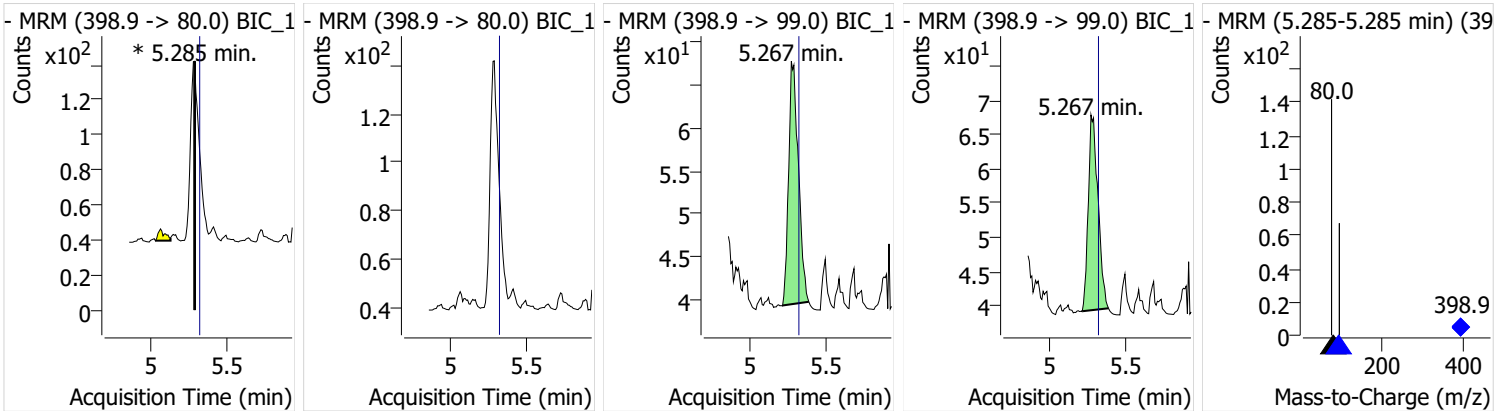
PFHpS



PFHxA



PFHxS



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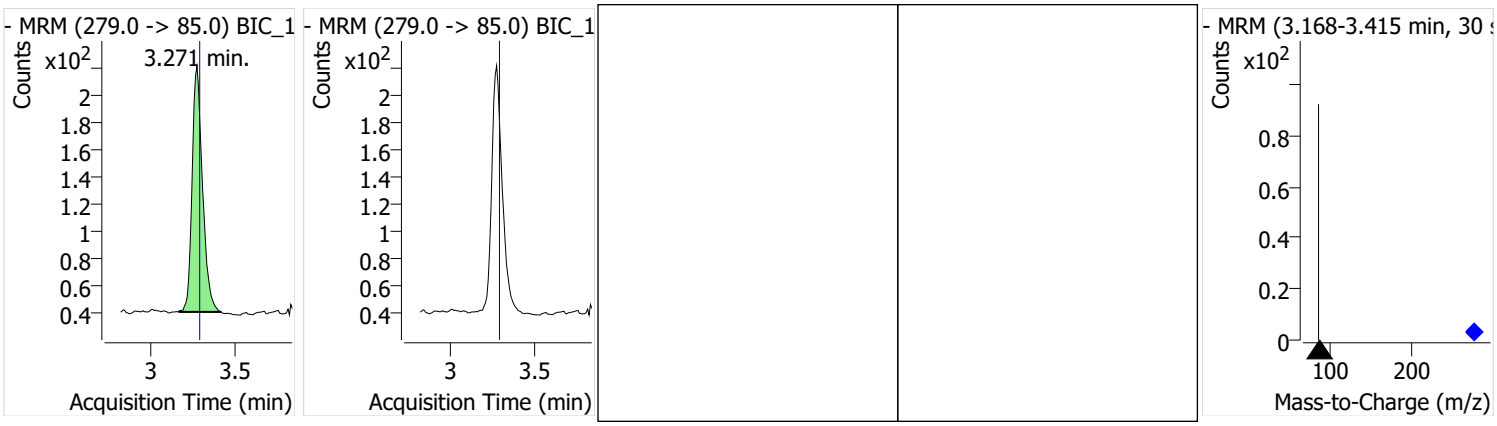

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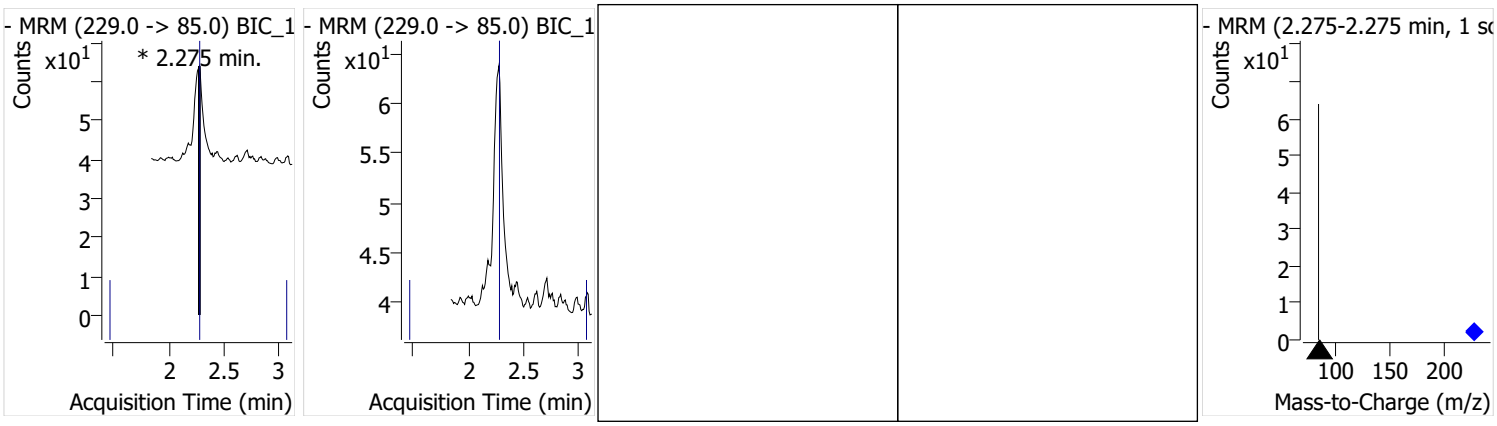

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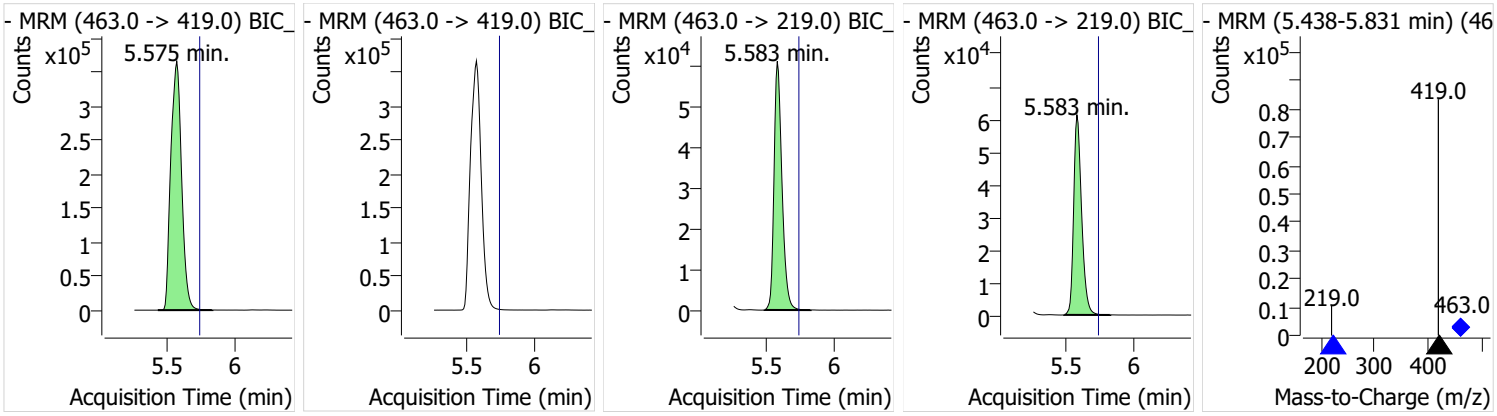
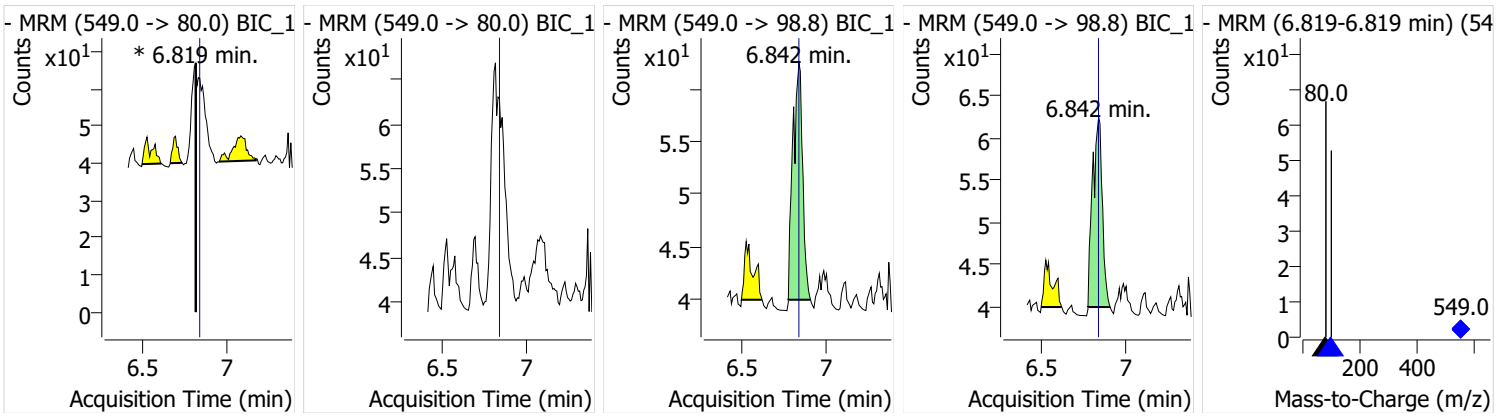


PFNS



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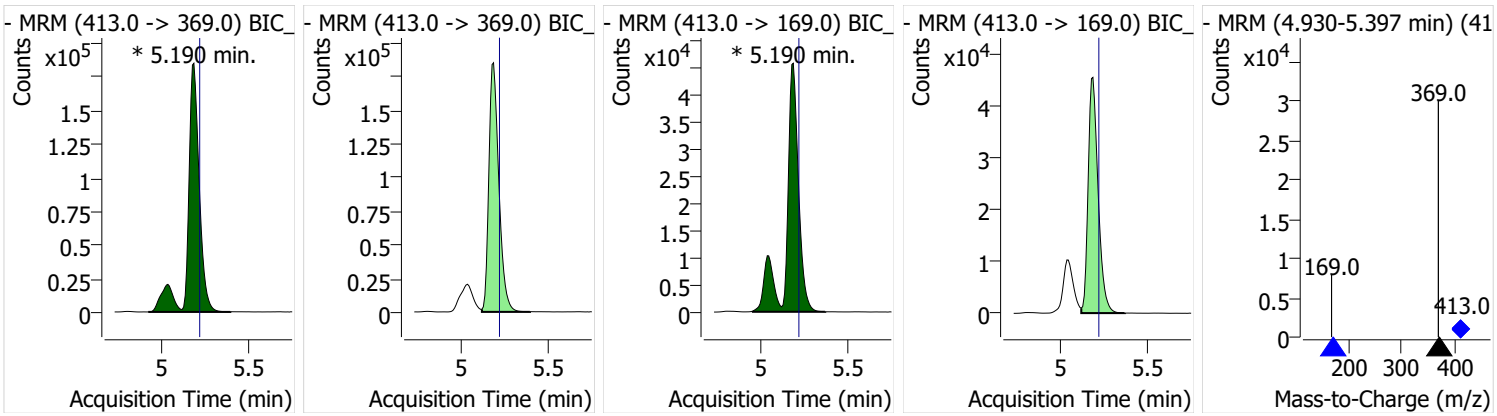

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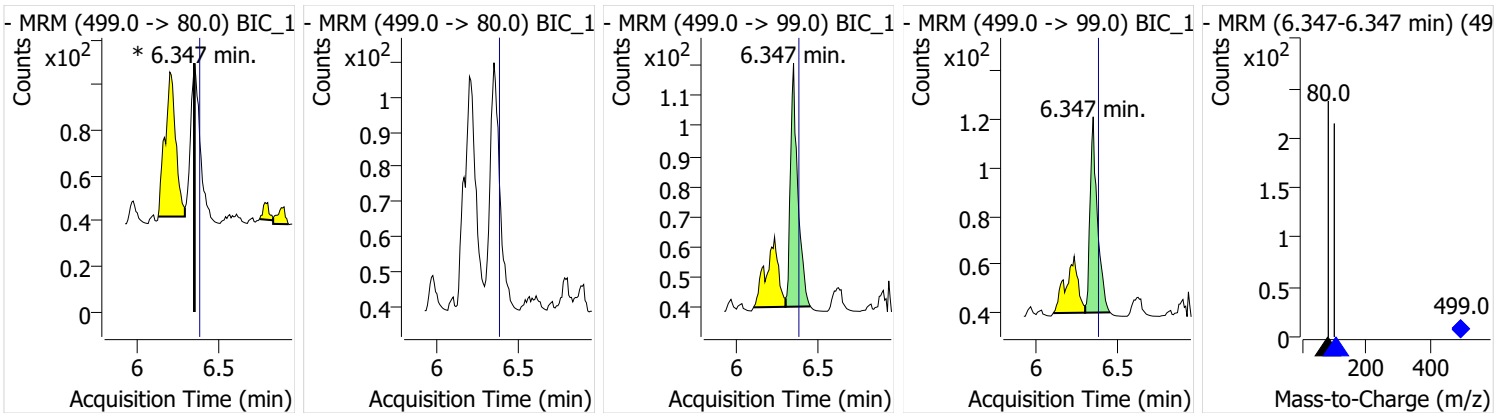

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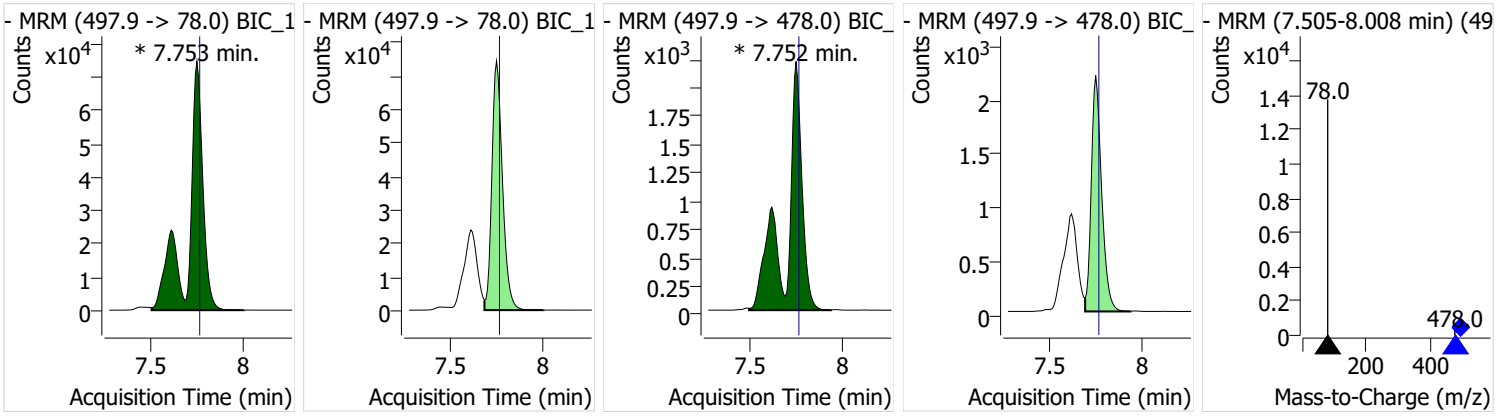

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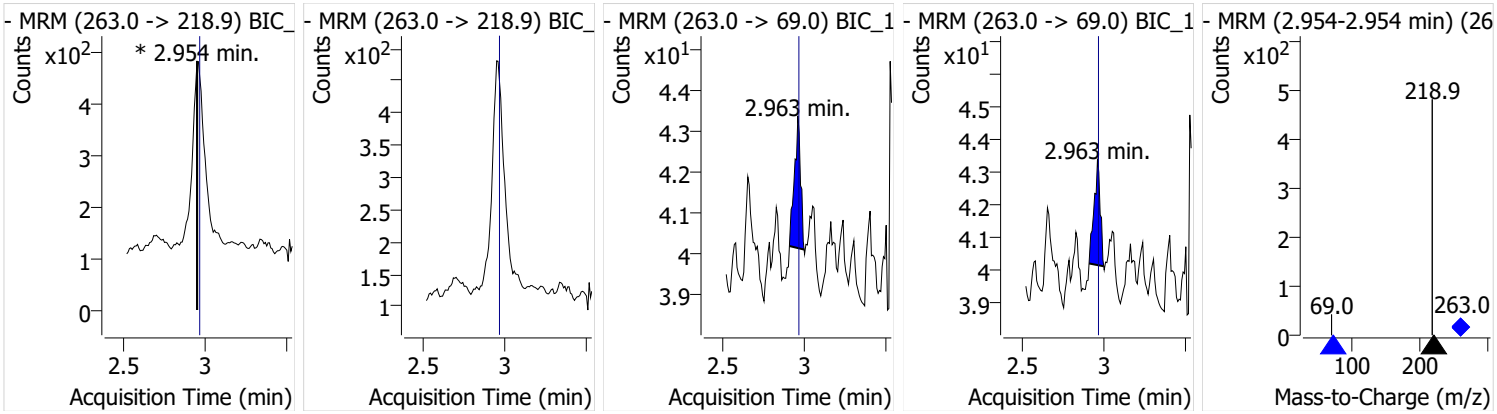

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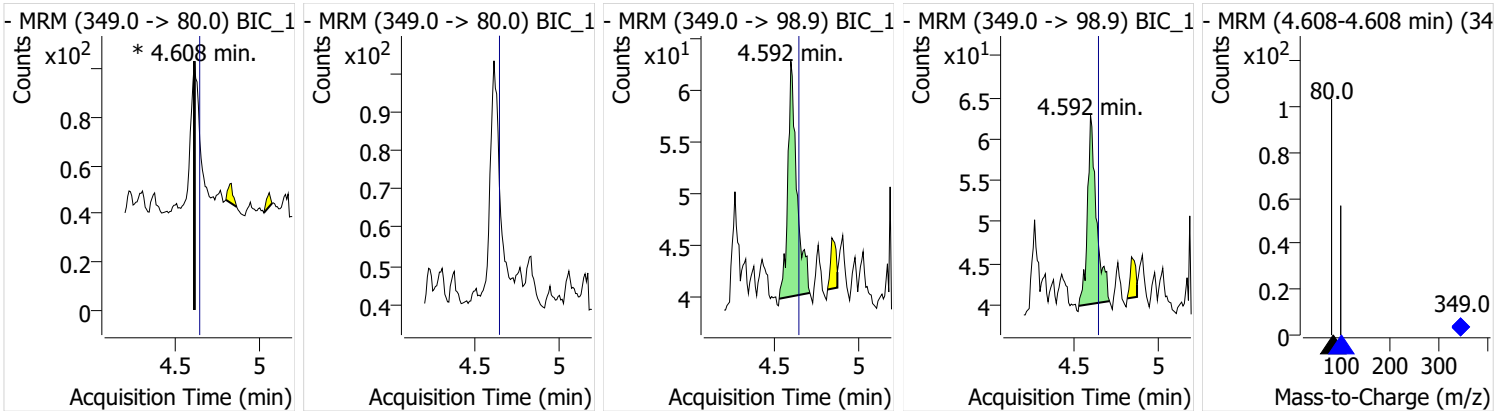

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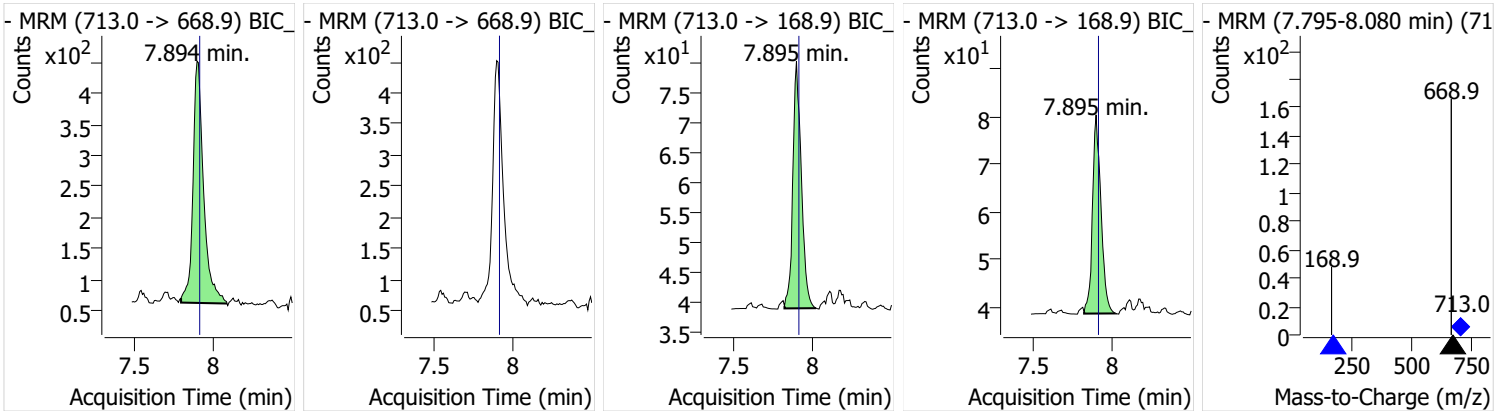

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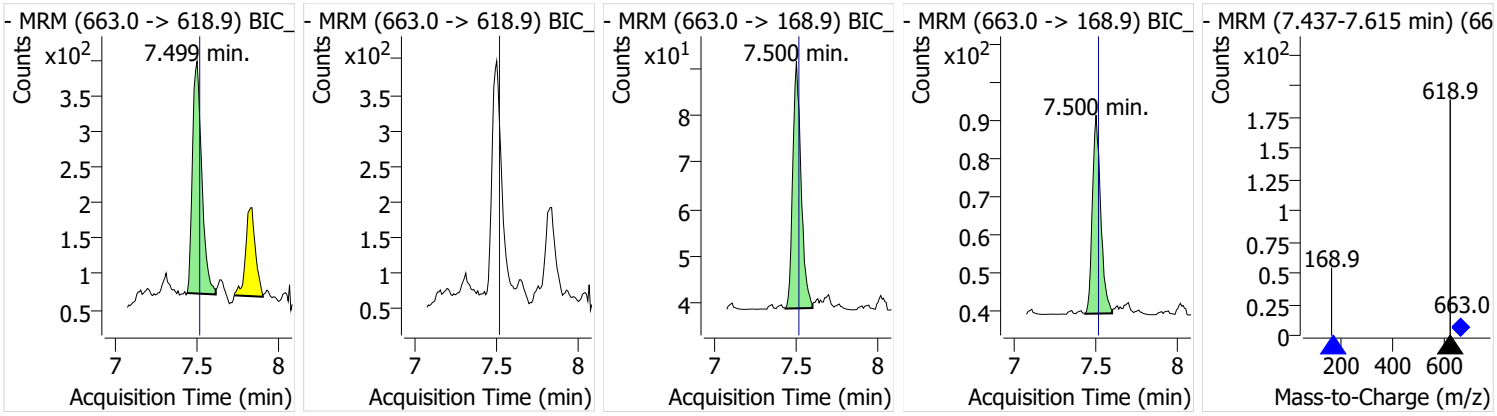

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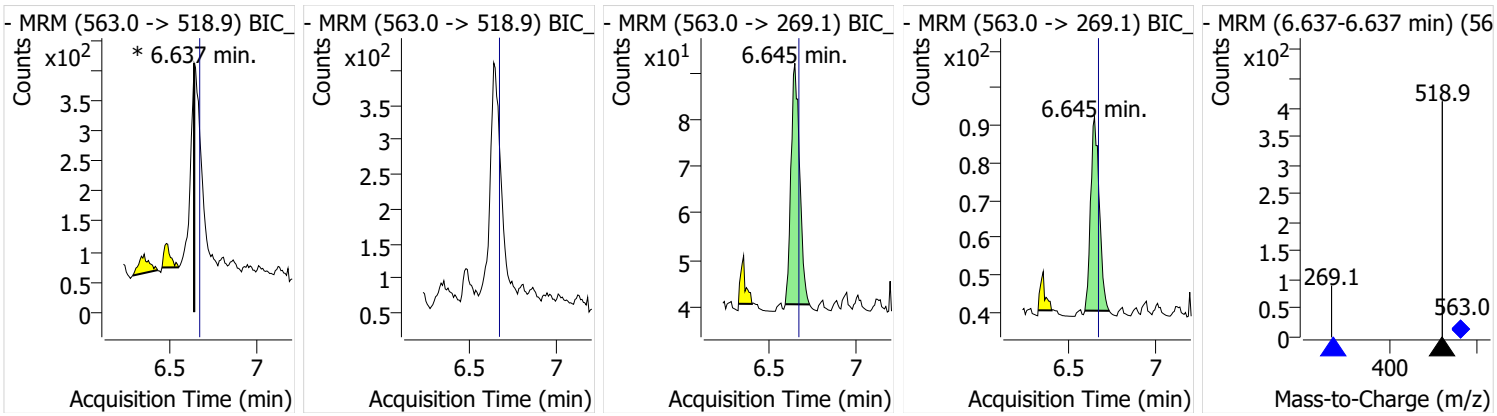

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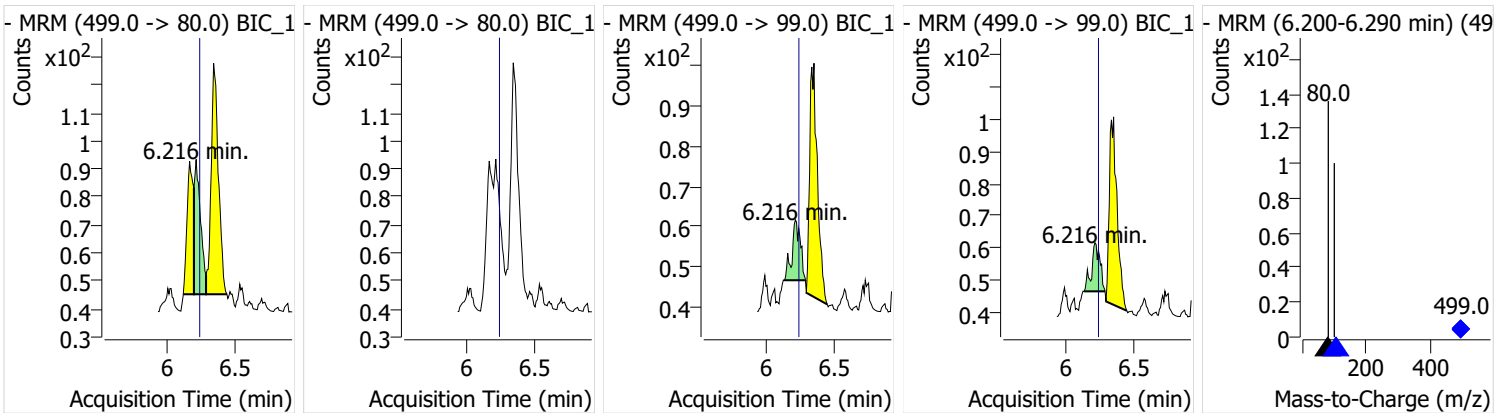

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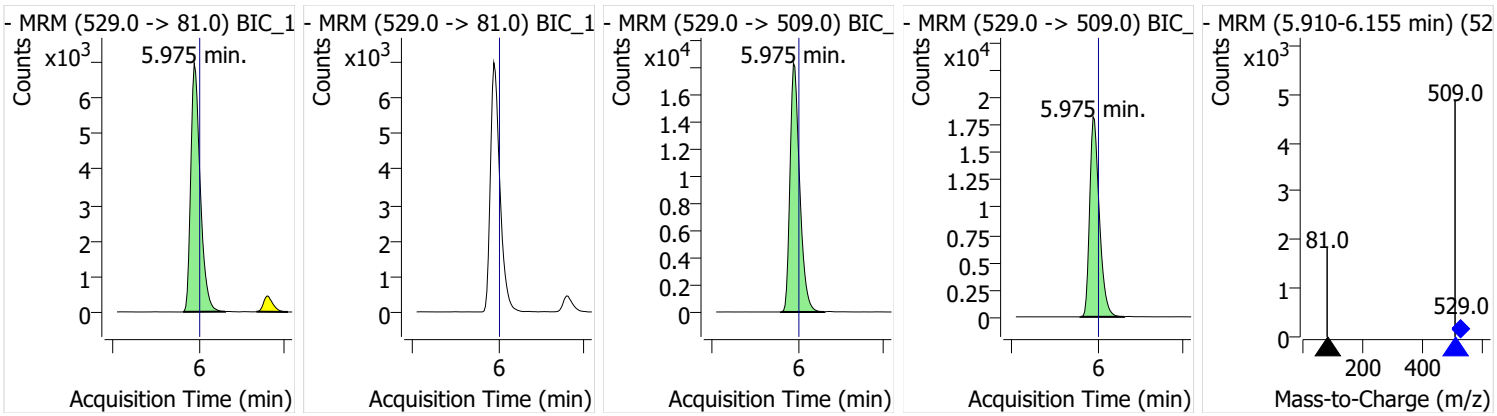

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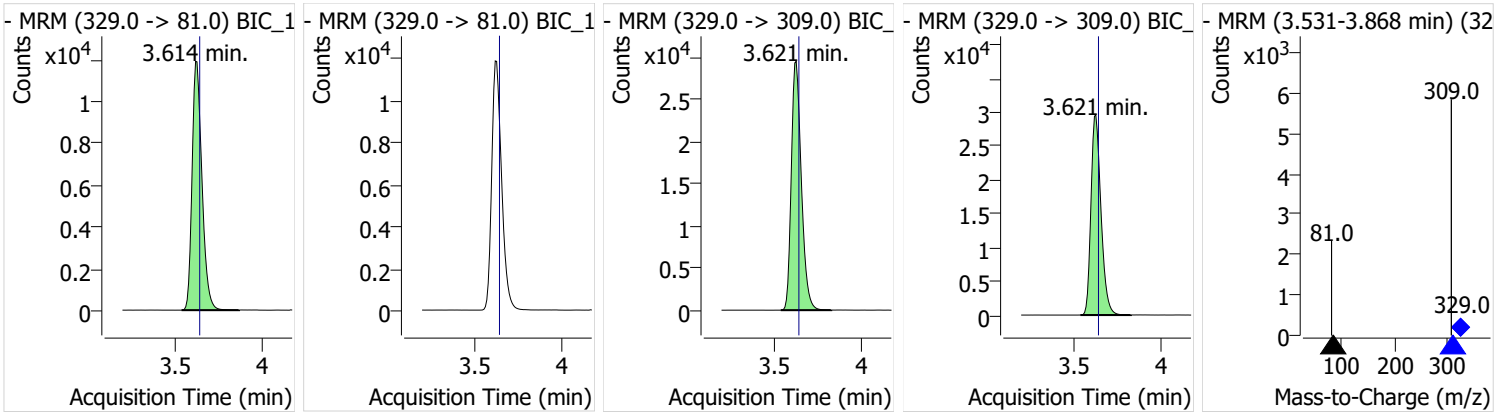

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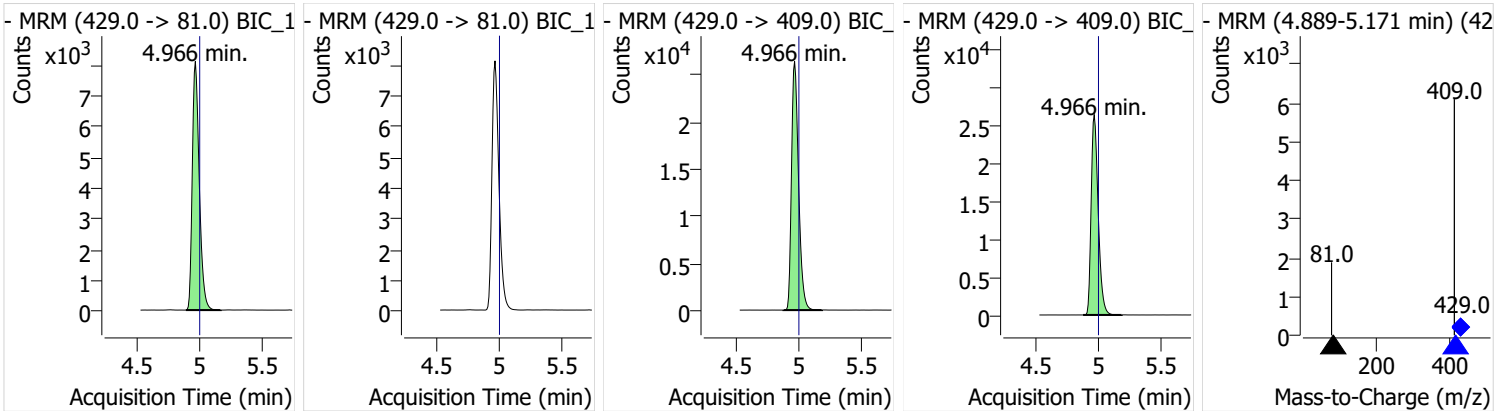
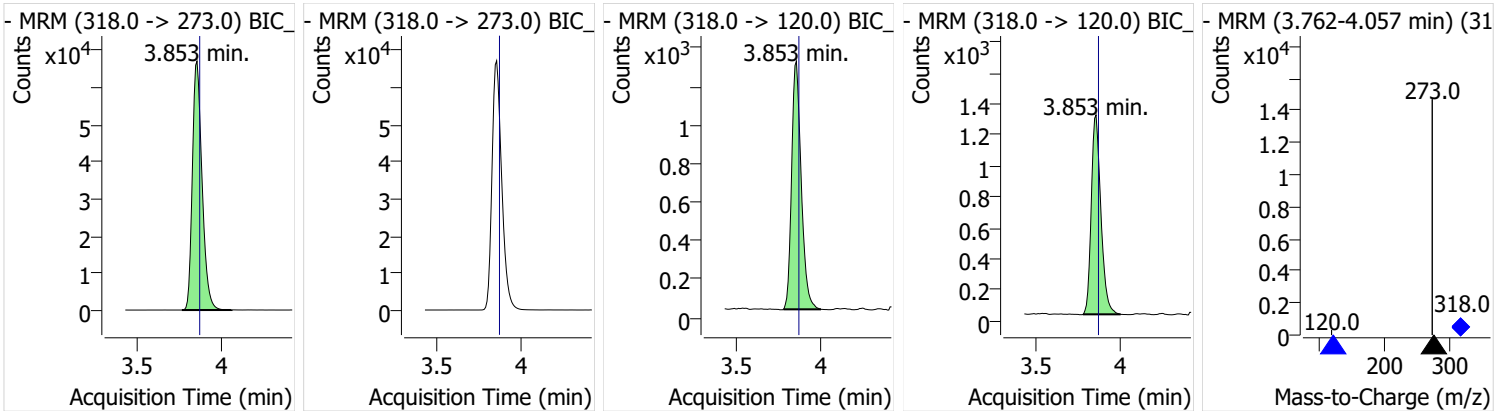


13C5-PFHxA



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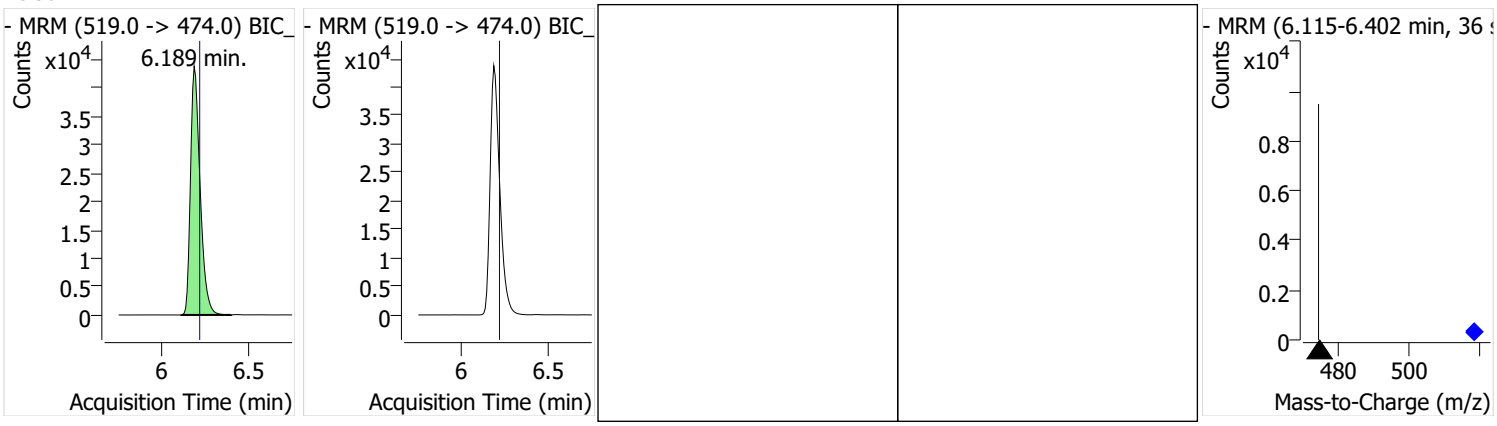

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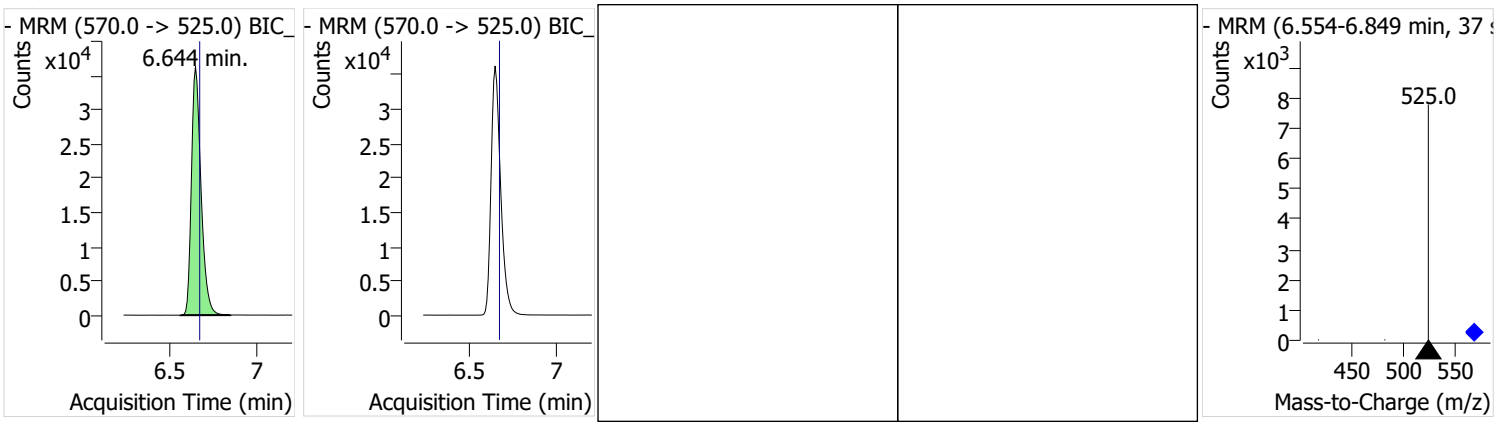
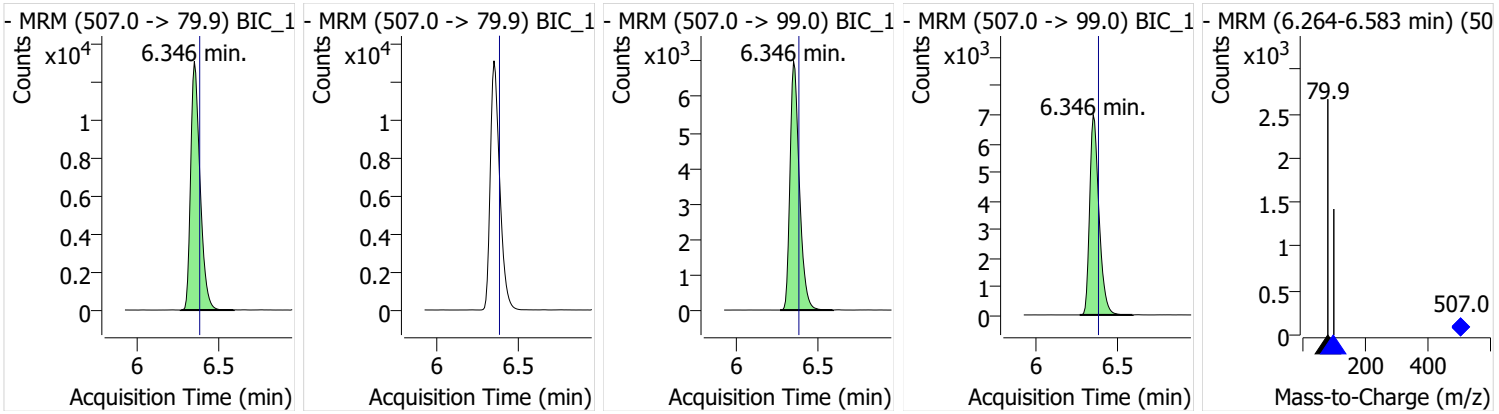


13C8-PFOA

13C8-PFOS



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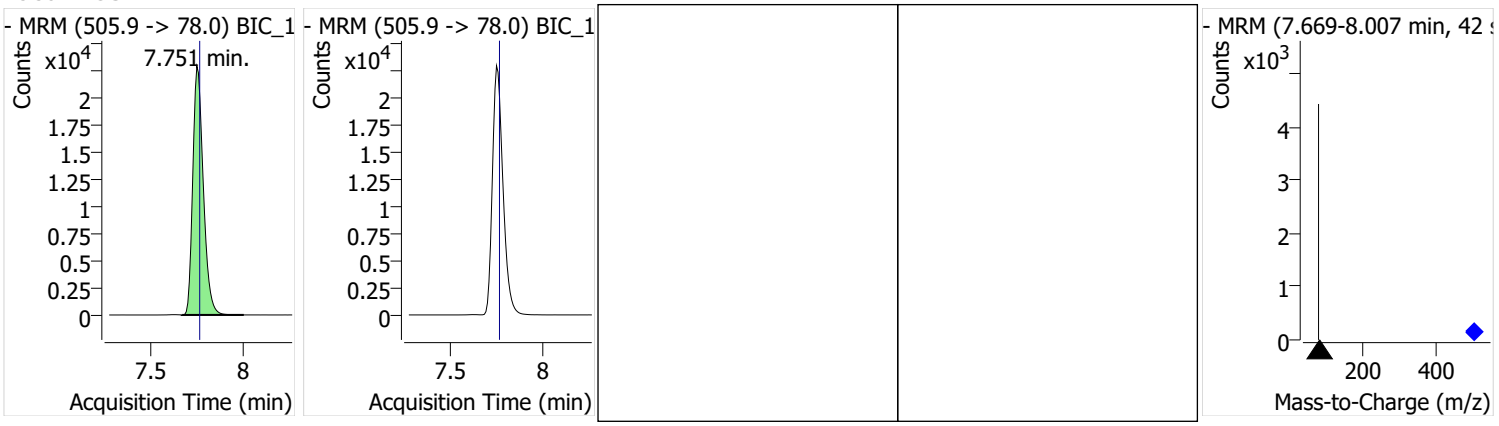

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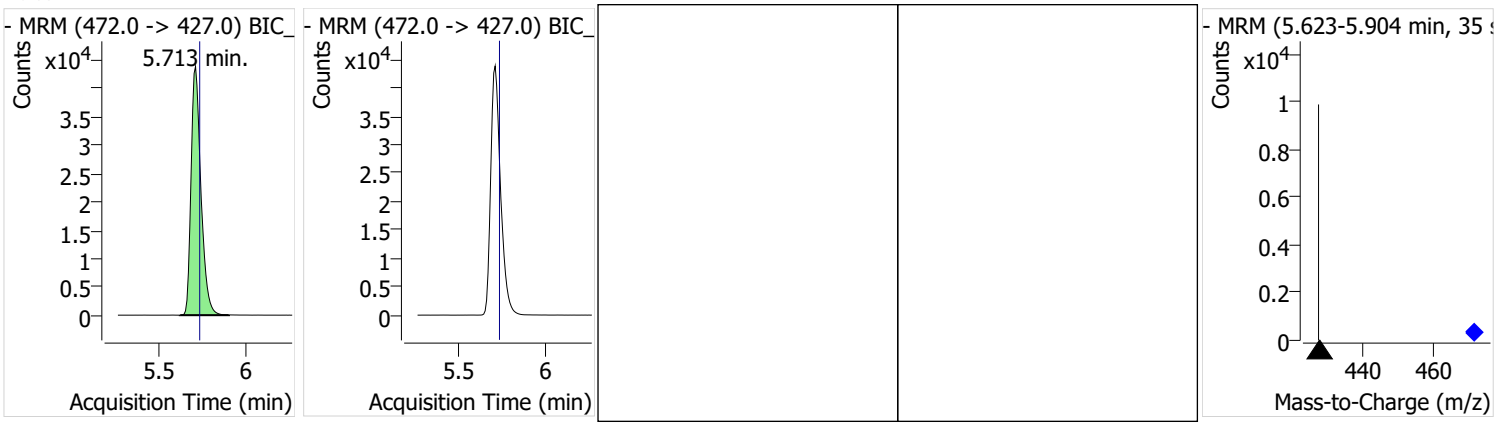

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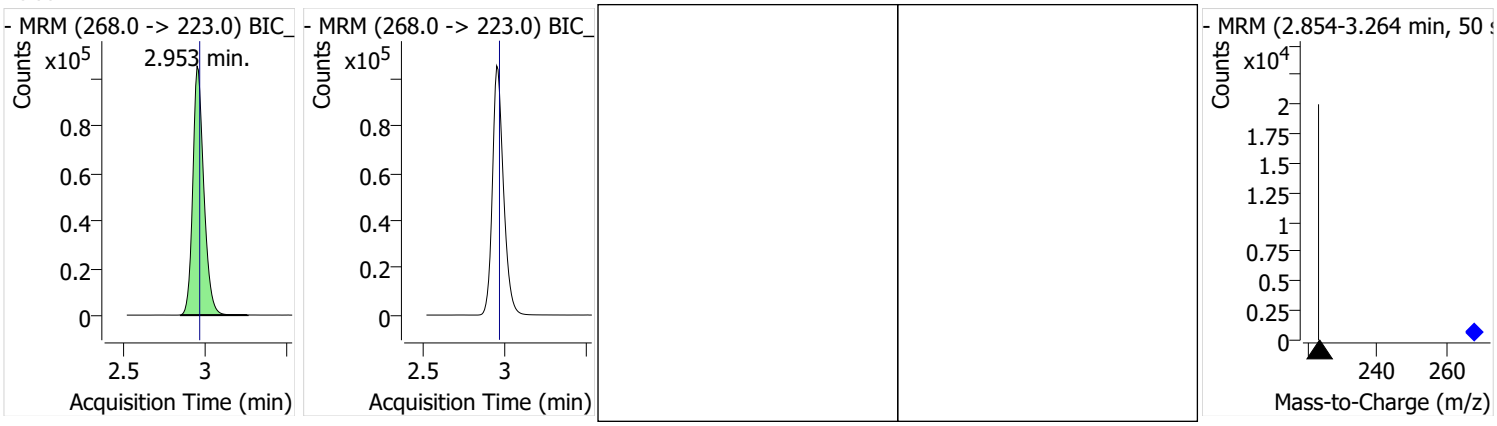

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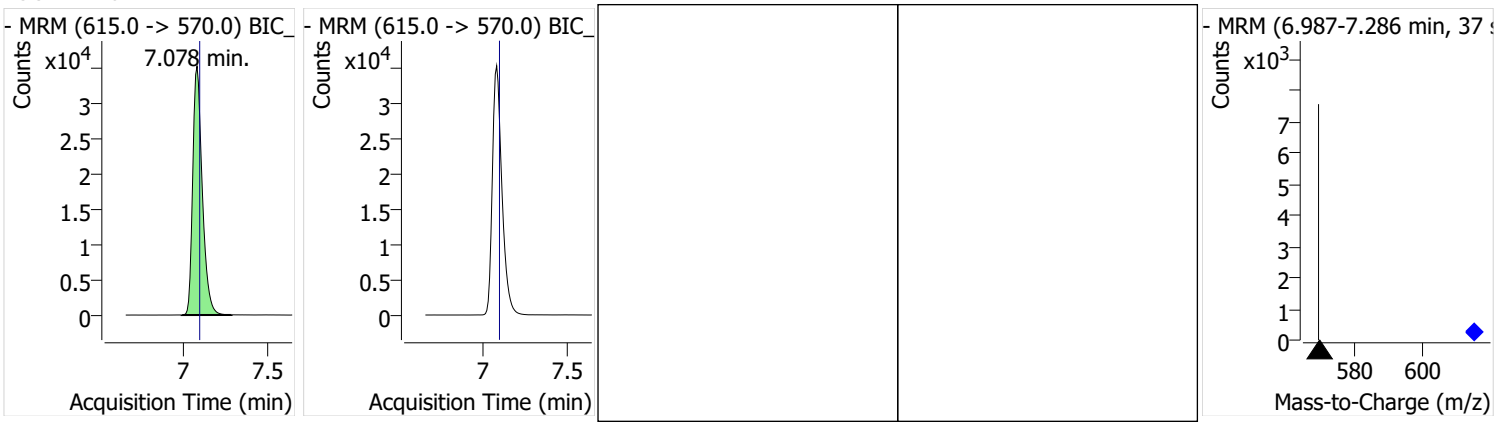

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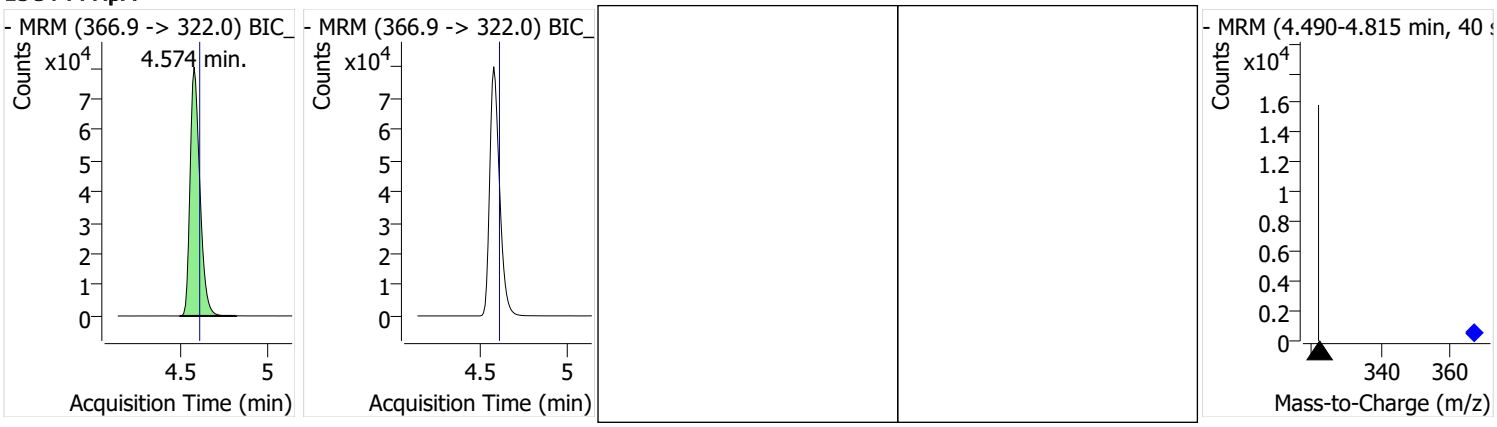

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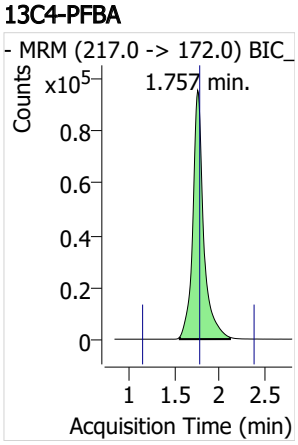

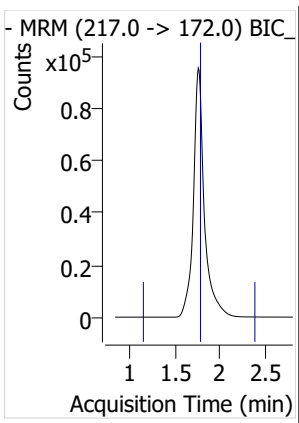

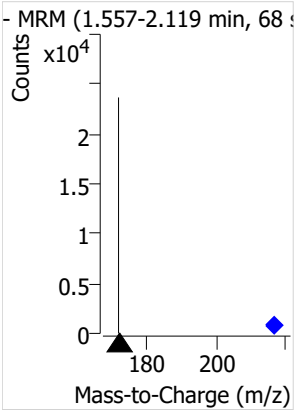

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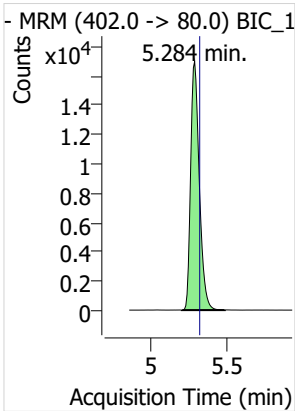

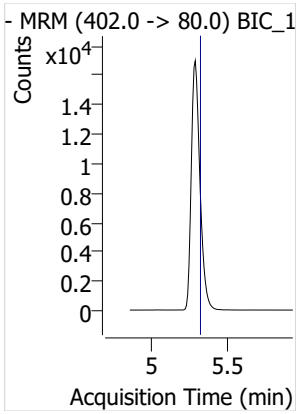

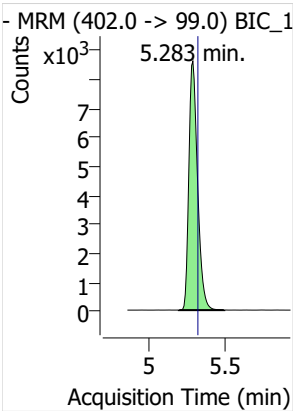

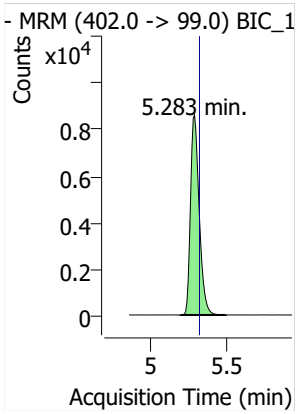

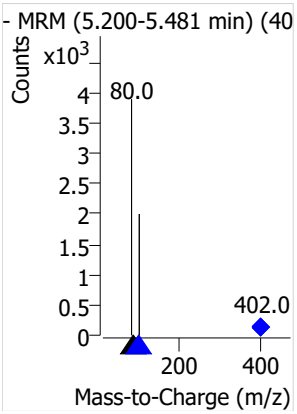

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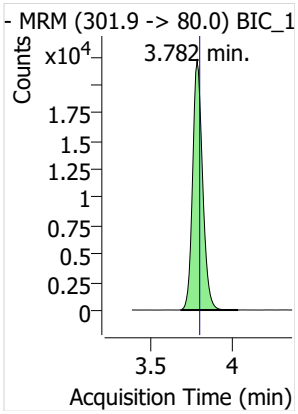

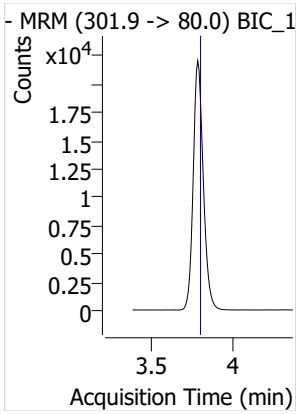

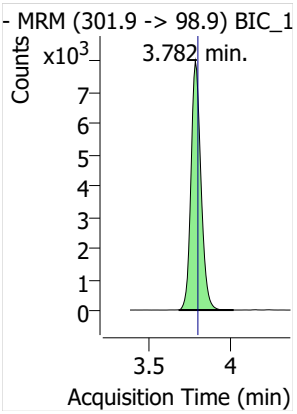

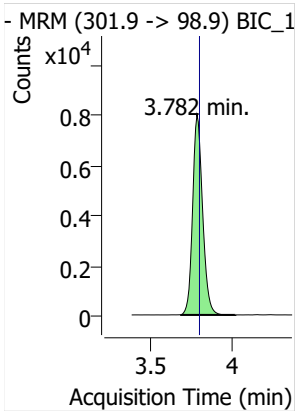

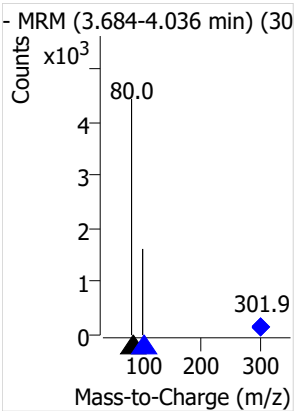

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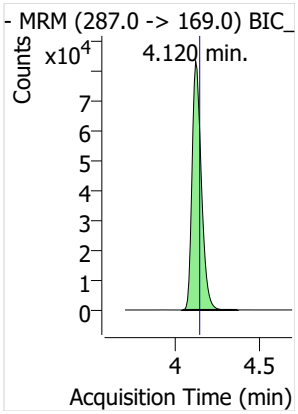

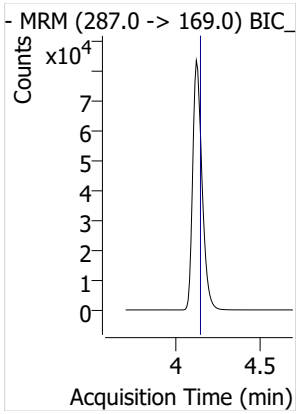

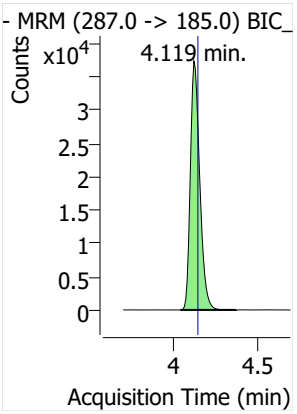

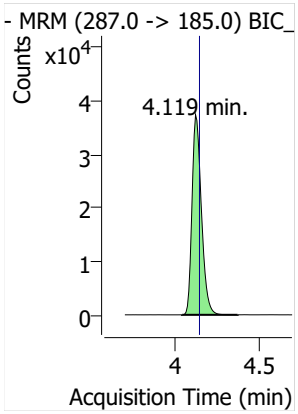

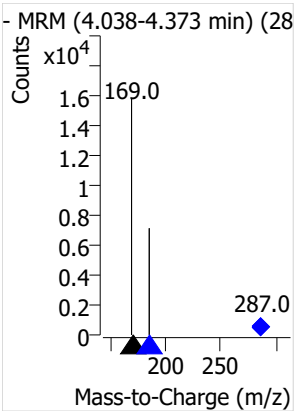

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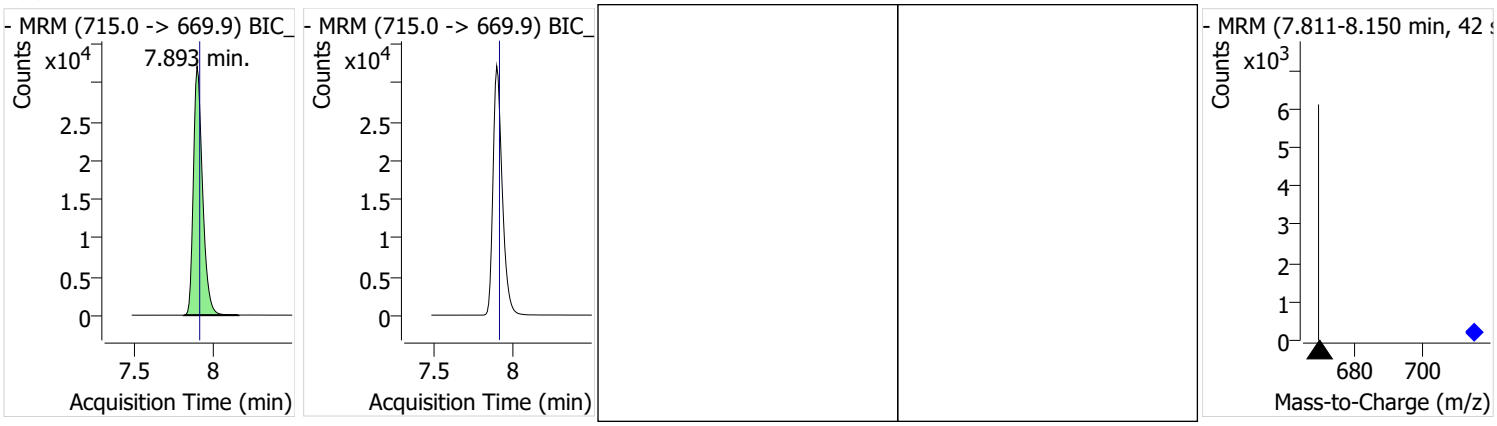
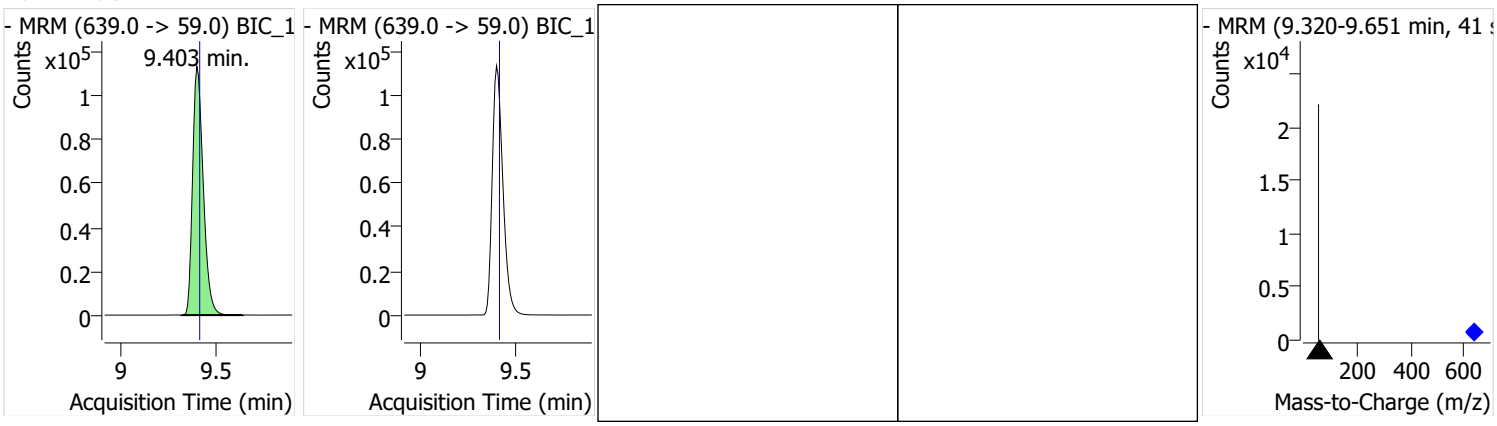


D9-NEtFOSE



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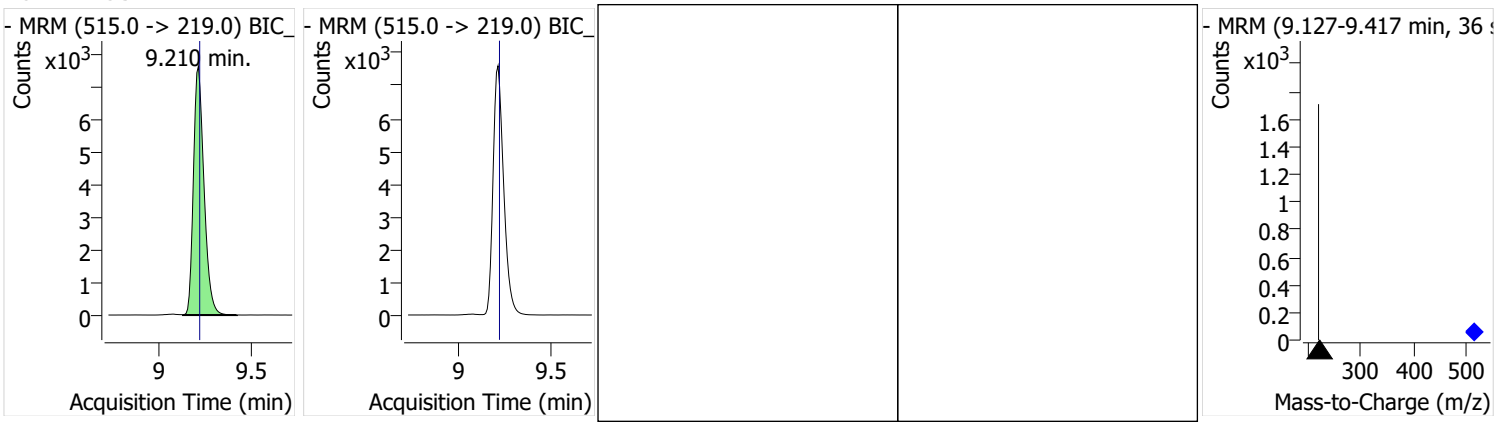
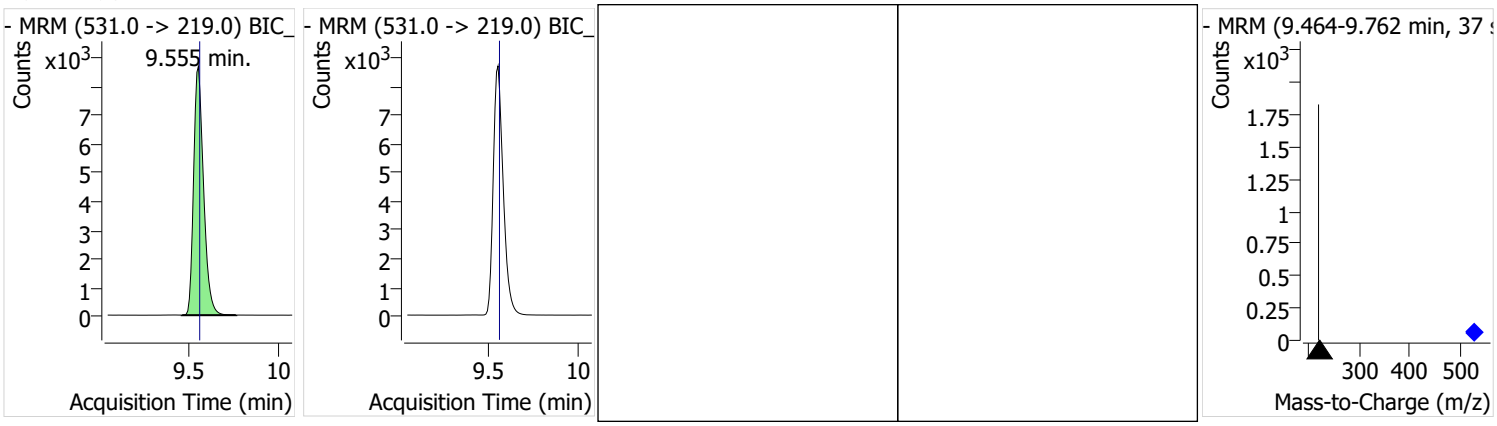


D3-NMeFOSAA

D5-NEtFOSA



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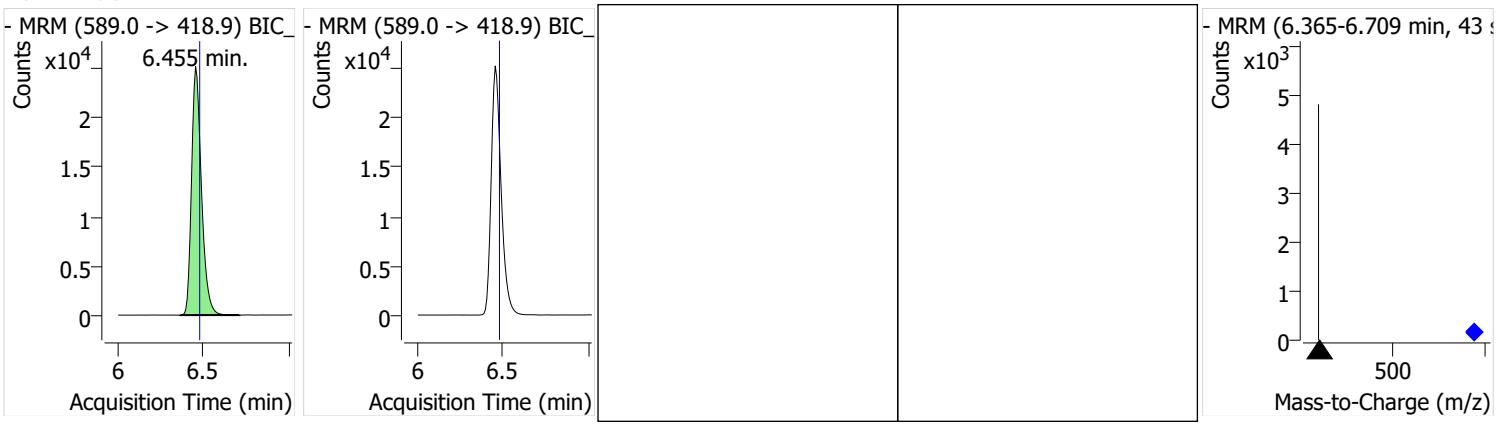

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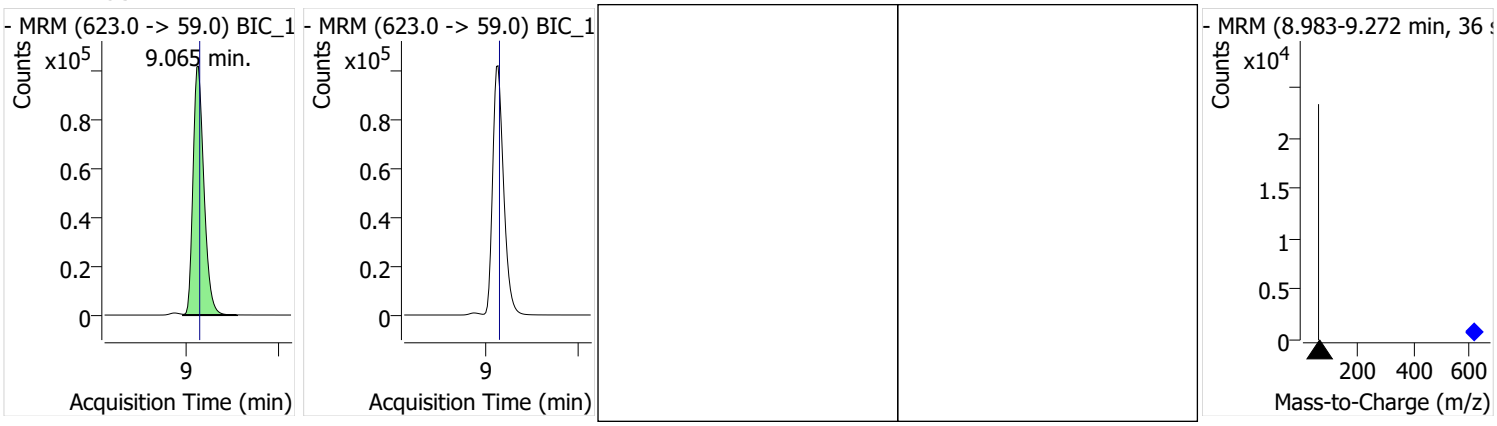

INITIAL CALIBRATION STANDARDS

Draft Method 1633

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Sequence:	S105100	Instrument:	QQQ5
Calibration:	2400593		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
24E0154	DM1633 CAL 1	S105100-CAL1	CAL1_1633_052824.d	05/28/24 09:55
24E0155	DM1633 CAL 2	S105100-CAL2	CAL2_1633_052824.d	05/28/24 10:11
24E0156	DM1633 CAL 3	S105100-CAL3	CAL3_1633_052824.d	05/28/24 10:27
24E0157	DM1633 CAL 4	S105100-CAL4	CAL4_1633_052824.d	05/28/24 10:42
24E0158	DM1633 CAL 5	S105100-CAL5	CAL5_1633_052824.d	05/28/24 10:58
24E0159	DM1633 CAL 6	S105100-CAL6	CAL6_1633_052824.d	05/28/24 11:14
24E0160	DM1633 CAL 7	S105100-CAL7	CAL7_1633_052824.d	05/28/24 11:29
24E0161	DM1633 CAL 8	S105100-CAL8	CAL8_1633_052824.d	05/28/24 11:45
24E0162	DM1633 CAL 9	S105100-CAL9	CAL9_1633_052824.d	05/28/24 12:01
24E0163	DM1633 CAL 10	S105100-CALA	CALA_1633_052824.d	05/28/24 12:16

Quantitative Analysis Complete Report

REVIEWED
By DJD at 10:29 am, May 29, 2024

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	
Report Time	5/29/2024 8:23:18 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/29/2024 8:19 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

Data File	Sample Name	Sample Type	Position	Inj Vol	Level	Acq. Method
CAL1_1633_052824.d	CAL1_1633_052824	Cal	P4-A1	4	1	1633_ACQUISITION.m
CAL2_1633_052824.d	CAL2_1633_052824	Cal	P4-A2	4	2	1633_ACQUISITION.m
CAL3_1633_052824.d	CAL3_1633_052824	Cal	P4-A3	4	3	1633_ACQUISITION.m
CAL4_1633_052824.d	CAL4_1633_052824	Cal	P4-A4	4	4	1633_ACQUISITION.m
CAL5_1633_052824.d	CAL5_1633_052824	Cal	P4-A5	4	5	1633_ACQUISITION.m
CAL6_1633_052824.d	CAL6_1633_052824	Cal	P4-A6	4	6	1633_ACQUISITION.m
CAL7_1633_052824.d	CAL7_1633_052824	Cal	P4-A7	4	7	1633_ACQUISITION.m
CAL8_1633_052824.d	CAL8_1633_052824	Cal	P4-A8	4	8	1633_ACQUISITION.m
CAL9_1633_052824.d	CAL9_1633_052824	Cal	P4-A9	4	9	1633_ACQUISITION.m
CALA_1633_052824.d	CALA_1633_052824	Cal	P4-B1	4	10	1633_ACQUISITION.m
IBL1_1633_052824.d	IBL1_1633_052824	Sample	P4-B2	4		1633_ACQUISITION.m
ICV_1633_052824.d	ICV_1633_052824	QC	P4-B3	4	ICV	1633_ACQUISITION.m
BIC_1633_052824.d	BIC_1633_052824	Sample	P4-B4	4		1633_ACQUISITION.m

Quantitation Results

13C4-PFBA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	13C4-PFBA	13C3-PFBA	Calibration	2.639	274811	118943	2.3104	10.5763	10.0000	105.8
CAL2_1633_052824.d	13C4-PFBA	13C3-PFBA	Calibration	2.631	256688	122377	2.0975	9.6016	10.0000	96.0
CAL3_1633_052824.d	13C4-PFBA	13C3-PFBA	Calibration	2.631	223999	124379	1.8009	8.2440	10.0000	82.4
CAL4_1633_052824.d	13C4-PFBA	13C3-PFBA	Calibration	2.631	263790	123718	2.1322	9.7603	10.0000	97.6
CAL5_1633_052824.d	13C4-PFBA	13C3-PFBA	Calibration	2.631	299701	133266	2.2489	10.2945	10.0000	102.9
CAL6_1633_052824.d	13C4-PFBA	13C3-PFBA	Calibration	2.631	282138	130233	2.1664	9.9170	10.0000	99.2
CAL7_1633_052824.d	13C4-PFBA	13C3-PFBA	Calibration	2.631	295806	122165	2.4214	11.0841	10.0000	110.8
CAL8_1633_052824.d	13C4-PFBA	13C3-PFBA	Calibration	2.631	262486	120575	2.1770	9.9652	10.0000	99.7
CAL9_1633_052824.d	13C4-PFBA	13C3-PFBA	Calibration	2.631	246808	108860	2.2672	10.3783	10.0000	103.8
CALA_1633_052824.d	13C4-PFBA	13C3-PFBA	Calibration	2.631	231709	104206	2.2236	10.1786	10.0000	101.8
IBL1_1633_052824.d	13C4-PFBA	13C3-PFBA	Sample	2.623	255449	108894	2.3458	10.7384		
ICV_1633_052824.d	13C4-PFBA	13C3-PFBA	QC	2.631	257377	107272	2.3993	10.9830	10.0000	109.8
BIC_1633_052824.d	13C4-PFBA	13C3-PFBA	Sample	2.631	261166	104134	2.5080	11.4805		

PFBA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	PFBA	13C4-PFBA - ISTD	Calibration	2.645	8911	277257	0.0321	0.3549	0.4000	88.7
CAL2_1633_052824.d	PFBA	13C4-PFBA - ISTD	Calibration	2.637	18398	265221	0.0694	0.7660	0.8000	95.8
CAL3_1633_052824.d	PFBA	13C4-PFBA - ISTD	Calibration	2.628	45474	221983	0.2049	2.2622	2.0000	113.1
CAL4_1633_052824.d	PFBA	13C4-PFBA - ISTD	Calibration	2.637	117015	267169	0.4380	4.8367	5.0000	96.7

5579

PFBA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL5_1633_052824.d	PFBA	13C4-PFBA - ISTD	Calibration	2.637	267543	297726	0.8986	9.9235	10.0000	99.2
CAL6_1633_052824.d	PFBA	13C4-PFBA - ISTD	Calibration	2.628	511228	278922	1.8329	20.2406	20.0000	101.2
CAL7_1633_052824.d	PFBA	13C4-PFBA - ISTD	Calibration	2.628	1311339	282922	4.6350	51.1846	50.0000	102.4
CAL8_1633_052824.d	PFBA	13C4-PFBA - ISTD	Calibration	2.628	2414992	262180	9.2112	101.7200	100.0000	101.7
CAL9_1633_052824.d	PFBA	13C4-PFBA - ISTD	Calibration	2.628	4526338	244636	18.5024	204.3233	200.0000	102.2
CALA_1633_052824.d	PFBA	13C4-PFBA - ISTD	Calibration	2.628	5278472	235550	22.4091	247.4655	250.0000	99.0
IBL1_1633_052824.d	PFBA	13C4-PFBA - ISTD	Sample	2.662	0	248856	0.0000	ND		
ICV_1633_052824.d	PFBA	13C4-PFBA - ISTD	QC	2.637	217133	257716	0.8425	9.3041	10.0000	93.0
BIC_1633_052824.d	PFBA	13C4-PFBA - ISTD	Sample	2.628	0	255722	0.0000	ND		

PFMPA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	PFMPA	13C5-PFPeA - ISTD	Calibration	3.391	607	255062	0.0024	0.1707	0.2000	85.4
CAL2_1633_052824.d	PFMPA	13C5-PFPeA - ISTD	Calibration	3.391	1372	238296	0.0058	0.4131	0.4000	103.3
CAL3_1633_052824.d	PFMPA	13C5-PFPeA - ISTD	Calibration	3.391	3180	194052	0.0164	1.1756	1.0000	117.6
CAL4_1633_052824.d	PFMPA	13C5-PFPeA - ISTD	Calibration	3.391	8347	239973	0.0348	2.4955	2.5000	99.8
CAL5_1633_052824.d	PFMPA	13C5-PFPeA - ISTD	Calibration	3.391	16985	260642	0.0652	4.6754	5.0000	93.5
CAL6_1633_052824.d	PFMPA	13C5-PFPeA - ISTD	Calibration	3.382	31836	242403	0.1313	9.4229	10.0000	94.2
CAL7_1633_052824.d	PFMPA	13C5-PFPeA - ISTD	Calibration	3.382	81227	242939	0.3344	23.9886	25.0000	96.0
CAL8_1633_052824.d	PFMPA	13C5-PFPeA - ISTD	Calibration	3.382	161220	226801	0.7108	51.0005	50.0000	102.0
CAL9_1633_052824.d	PFMPA	13C5-PFPeA - ISTD	Calibration	3.382	305320	212132	1.4393	103.2637	100.0000	103.3
CALA_1633_052824.d	PFMPA	13C5-PFPeA - ISTD	Calibration	3.382	375536	205190	1.8302	131.3095	125.0000	105.0
IBL1_1633_052824.d	PFMPA	13C5-PFPeA - ISTD	Sample	3.432	0	187823	0.0000	ND		
ICV_1633_052824.d	PFMPA	13C5-PFPeA - ISTD	QC	3.391	29112	212840	0.1368	9.8133	10.0000	98.1
BIC_1633_052824.d	PFMPA	13C5-PFPeA - ISTD	Sample	3.382	0	180027	0.0000	ND		

3:3FTCA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	3:3FTCA	13C5-PFPeA - ISTD	Calibration	3.716	1735	255062	0.0068	0.7740	1.0000	77.4
CAL2_1633_052824.d	3:3FTCA	13C5-PFPeA - ISTD	Calibration	3.707	3735	238296	0.0157	1.7832	2.0000	89.2
CAL3_1633_052824.d	3:3FTCA	13C5-PFPeA - ISTD	Calibration	3.707	9453	194052	0.0487	5.5427	5.0000	110.9
CAL4_1633_052824.d	3:3FTCA	13C5-PFPeA - ISTD	Calibration	3.707	23675	239973	0.0987	11.2255	12.5000	89.8
CAL5_1633_052824.d	3:3FTCA	13C5-PFPeA - ISTD	Calibration	3.707	54145	260642	0.2077	23.6370	25.0000	94.5
CAL6_1633_052824.d	3:3FTCA	13C5-PFPeA - ISTD	Calibration	3.707	108015	242403	0.4456	50.7021	50.0000	101.4
CAL7_1633_052824.d	3:3FTCA	13C5-PFPeA - ISTD	Calibration	3.707	271901	242939	1.1192	127.3489	125.0000	101.9
CAL8_1633_052824.d	3:3FTCA	13C5-PFPeA - ISTD	Calibration	3.707	527655	226801	2.3265	264.7206	250.0000	105.9
CAL9_1633_052824.d	3:3FTCA	13C5-PFPeA - ISTD	Calibration	3.707	1040479	212132	4.9049	558.0947	500.0000	111.6
CALA_1633_052824.d	3:3FTCA	13C5-PFPeA - ISTD	Calibration	3.707	1323689	205190	6.4511	734.0274	625.0000	117.4
IBL1_1633_052824.d	3:3FTCA	13C5-PFPeA - ISTD	Sample	3.741	0	187823	0.0000	ND		
ICV_1633_052824.d	3:3FTCA	13C5-PFPeA - ISTD	QC	3.724	17665	212840	0.0830	9.4435	10.0000	94.4
BIC_1633_052824.d	3:3FTCA	13C5-PFPeA - ISTD	Sample	3.774	0	180027	0.0000	ND		

13C5-PFPeA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	13C5-PFPeA	13C2-PFHxA	Calibration	4.220	255062	148436	1.7183	5.4692	5.0000	109.4
CAL2_1633_052824.d	13C5-PFPeA	13C2-PFHxA	Calibration	4.212	238296	151638	1.5715	5.0018	5.0000	100.0
CAL3_1633_052824.d	13C5-PFPeA	13C2-PFHxA	Calibration	4.212	194052	152654	1.2712	4.0460	5.0000	80.9
CAL4_1633_052824.d	13C5-PFPeA	13C2-PFHxA	Calibration	4.212	239973	156517	1.5332	4.8800	5.0000	97.6
CAL5_1633_052824.d	13C5-PFPeA	13C2-PFHxA	Calibration	4.212	260642	162432	1.6046	5.1073	5.0000	102.1
CAL6_1633_052824.d	13C5-PFPeA	13C2-PFHxA	Calibration	4.212	242403	155300	1.5609	4.9680	5.0000	99.4
CAL7_1633_052824.d	13C5-PFPeA	13C2-PFHxA	Calibration	4.212	242939	148840	1.6322	5.1951	5.0000	103.9
CAL8_1633_052824.d	13C5-PFPeA	13C2-PFHxA	Calibration	4.212	226801	142278	1.5941	5.0737	5.0000	101.5
CAL9_1633_052824.d	13C5-PFPeA	13C2-PFHxA	Calibration	4.212	212132	131050	1.6187	5.1521	5.0000	103.0
CALA_1633_052824.d	13C5-PFPeA	13C2-PFHxA	Calibration	4.212	205190	127885	1.6045	5.1068	5.0000	102.1
IBL1_1633_052824.d	13C5-PFPeA	13C2-PFHxA	Sample	4.212	187823	123215	1.5244	4.8518		
ICV_1633_052824.d	13C5-PFPeA	13C2-PFHxA	QC	4.220	212840	125156	1.7006	5.4128	5.0000	108.3
BIC_1633_052824.d	13C5-PFPeA	13C2-PFHxA	Sample	4.220	180027	119952	1.5008	4.7769		

PFPeA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	PFPeA	13C5-PFPeA - ISTD	Calibration	4.222	8430	255062	0.0331	0.1677	0.2000	83.9
CAL2_1633_052824.d	PFPeA	13C5-PFPeA - ISTD	Calibration	4.214	18109	238296	0.0760	0.3857	0.4000	96.4
CAL3_1633_052824.d	PFPeA	13C5-PFPeA - ISTD	Calibration	4.214	44404	194052	0.2288	1.1614	1.0000	116.1
CAL4_1633_052824.d	PFPeA	13C5-PFPeA - ISTD	Calibration	4.214	113634	239973	0.4735	2.4033	2.5000	96.1
CAL5_1633_052824.d	PFPeA	13C5-PFPeA - ISTD	Calibration	4.214	250004	260642	0.9592	4.8682	5.0000	97.4
CAL6_1633_052824.d	PFPeA	13C5-PFPeA - ISTD	Calibration	4.214	475208	242403	1.9604	9.9497	10.0000	99.5
CAL7_1633_052824.d	PFPeA	13C5-PFPeA - ISTD	Calibration	4.214	1192371	242939	4.9081	24.9104	25.0000	99.6
CAL8_1633_052824.d	PFPeA	13C5-PFPeA - ISTD	Calibration	4.214	2269318	226801	10.0058	50.7829	50.0000	101.6
CAL9_1633_052824.d	PFPeA	13C5-PFPeA - ISTD	Calibration	4.214	4385593	212132	20.6738	104.9270	100.0000	104.9
CALA_1633_052824.d	PFPeA	13C5-PFPeA - ISTD	Calibration	4.214	5277835	205190	25.7218	130.5469	125.0000	104.4
IBL1_1633_052824.d	PFPeA	13C5-PFPeA - ISTD	Sample	4.214	0	187823	0.0000	ND		
ICV_1633_052824.d	PFPeA	13C5-PFPeA - ISTD	QC	4.222	401424	212840	1.8860	9.5723	10.0000	95.7
BIC_1633_052824.d	PFPeA	13C5-PFPeA - ISTD	Sample	4.214	0	180027	0.0000	ND		

PFMBA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	PFMBA	13C5-PFPeA - ISTD	Calibration	4.538	5375	255062	0.0211	0.1600	0.2000	80.0
CAL2_1633_052824.d	PFMBA	13C5-PFPeA - ISTD	Calibration	4.530	11903	238296	0.0500	0.3794	0.4000	94.8
CAL3_1633_052824.d	PFMBA	13C5-PFPeA - ISTD	Calibration	4.530	31395	194052	0.1618	1.2288	1.0000	122.9
CAL4_1633_052824.d	PFMBA	13C5-PFPeA - ISTD	Calibration	4.530	79907	239973	0.3330	2.5291	2.5000	101.2
CAL5_1633_052824.d	PFMBA	13C5-PFPeA - ISTD	Calibration	4.530	165250	260642	0.6340	4.8155	5.0000	96.3
CAL6_1633_052824.d	PFMBA	13C5-PFPeA - ISTD	Calibration	4.530	309088	242403	1.2751	9.6847	10.0000	96.8
CAL7_1633_052824.d	PFMBA	13C5-PFPeA - ISTD	Calibration	4.530	790688	242939	3.2547	24.7201	25.0000	98.9
CAL8_1633_052824.d	PFMBA	13C5-PFPeA - ISTD	Calibration	4.530	1515931	226801	6.6840	50.7664	50.0000	101.5
CAL9_1633_052824.d	PFMBA	13C5-PFPeA - ISTD	Calibration	4.530	2914876	212132	13.7408	104.3648	100.0000	104.4

PFMBA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CALA_1633_052824.d	PFMBA	13C5-PFPeA - ISTD	Calibration	4.530	3483424	205190	16.9766	128.9413	125.0000	103.2
IBL1_1633_052824.d	PFMBA	13C5-PFPeA - ISTD	Sample	4.530	0	187823	0.0000	ND		
ICV_1633_052824.d	PFMBA	13C5-PFPeA - ISTD	QC	4.538	254832	212840	1.1973	9.0937	10.0000	90.9
BIC_1633_052824.d	PFMBA	13C5-PFPeA - ISTD	Sample	4.497	0	180027	0.0000	ND		

13C2-4:2FTS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	13C2-4:2FTS	18O2-PFHxS	Calibration	4.878	120685	44900	2.6879	5.2797	5.0000	105.6
CAL2_1633_052824.d	13C2-4:2FTS	18O2-PFHxS	Calibration	4.870	112473	45227	2.4868	4.8848	5.0000	97.7
CAL3_1633_052824.d	13C2-4:2FTS	18O2-PFHxS	Calibration	4.870	94799	46538	2.0370	4.0013	5.0000	80.0
CAL4_1633_052824.d	13C2-4:2FTS	18O2-PFHxS	Calibration	4.870	115016	47139	2.4400	4.7927	5.0000	95.9
CAL5_1633_052824.d	13C2-4:2FTS	18O2-PFHxS	Calibration	4.870	123074	50357	2.4440	4.8007	5.0000	96.0
CAL6_1633_052824.d	13C2-4:2FTS	18O2-PFHxS	Calibration	4.870	122104	46958	2.6003	5.1077	5.0000	102.2
CAL7_1633_052824.d	13C2-4:2FTS	18O2-PFHxS	Calibration	4.870	137371	43998	3.1222	6.1329	5.0000	122.7
CAL8_1633_052824.d	13C2-4:2FTS	18O2-PFHxS	Calibration	4.870	159547	42780	3.7295	7.3258	5.0000	146.5
CAL9_1633_052824.d	13C2-4:2FTS	18O2-PFHxS	Calibration	4.870	209997	39304	5.3429	10.4950	5.0000	209.9
CALA_1633_052824.d	13C2-4:2FTS	18O2-PFHxS	Calibration	4.870	235391	39421	5.9712	11.7291	5.0000	234.6
IBL1_1633_052824.d	13C2-4:2FTS	18O2-PFHxS	Sample	4.870	102746	40384	2.5443	4.9976		
ICV_1633_052824.d	13C2-4:2FTS	18O2-PFHxS	QC	4.878	107446	39040	2.7522	5.4061	5.0000	108.1
BIC_1633_052824.d	13C2-4:2FTS	18O2-PFHxS	Sample	4.878	100127	38604	2.5937	5.0948		

4:2FTS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	4:2FTS	13C2-4:2FTS - ISTD	Calibration	4.871	8747	42764	0.2045	0.3250	0.3750	86.7
CAL2_1633_052824.d	4:2FTS	13C2-4:2FTS - ISTD	Calibration	4.871	19039	39996	0.4760	0.7565	0.7500	100.9
CAL3_1633_052824.d	4:2FTS	13C2-4:2FTS - ISTD	Calibration	4.871	47097	33432	1.4088	2.2388	1.8750	119.4
CAL4_1633_052824.d	4:2FTS	13C2-4:2FTS - ISTD	Calibration	4.871	115922	40984	2.8285	4.4950	4.6880	95.9
CAL5_1633_052824.d	4:2FTS	13C2-4:2FTS - ISTD	Calibration	4.871	235788	41029	5.7468	9.1330	9.3750	97.4
CAL6_1633_052824.d	4:2FTS	13C2-4:2FTS - ISTD	Calibration	4.871	434130	36716	11.8240	18.7910	18.7500	100.2
CAL7_1633_052824.d	4:2FTS	13C2-4:2FTS - ISTD	Calibration	4.871	965535	32889	29.3570	46.6548	46.8750	99.5
CAL8_1633_052824.d	4:2FTS	13C2-4:2FTS - ISTD	Calibration	4.871	1647806	28631	57.5526	91.4639	93.7500	97.6
CAL9_1633_052824.d	4:2FTS	13C2-4:2FTS - ISTD	Calibration	4.871	2897188	25787	112.3493	178.5478	187.5000	95.2
CALA_1633_052824.d	4:2FTS	13C2-4:2FTS - ISTD	Calibration	4.871	3400195	25226	134.7893	214.2099		
IBL1_1633_052824.d	4:2FTS	13C2-4:2FTS - ISTD	Sample	4.838	0	37458	0.0000	ND		
ICV_1633_052824.d	4:2FTS	13C2-4:2FTS - ISTD	QC	4.879	211663	35086	6.0326	9.5872	10.0000	95.9
BIC_1633_052824.d	4:2FTS	13C2-4:2FTS - ISTD	Sample	4.871	0	36032	0.0000	ND		

NFDHA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	NFDHA	13C5-PFHxA - ISTD	Calibration	5.023	974	169772	0.0057	0.2049	0.2000	102.4
CAL2_1633_052824.d	NFDHA	13C5-PFHxA - ISTD	Calibration	5.023	1684	159773	0.0105	0.3763	0.4000	94.1
CAL3_1633_052824.d	NFDHA	13C5-PFHxA - ISTD	Calibration	5.023	4745	131462	0.0361	1.2884	1.0000	128.8

NFDHA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL4_1633_052824.d	NFDHA	13C5-PFHxA - ISTD	Calibration	5.023	11189	161126	0.0694	2.4789	2.5000	99.2
CAL5_1633_052824.d	NFDHA	13C5-PFHxA - ISTD	Calibration	5.023	24553	175668	0.1398	4.9892	5.0000	99.8
CAL6_1633_052824.d	NFDHA	13C5-PFHxA - ISTD	Calibration	5.023	44393	164607	0.2697	9.6270	10.0000	96.3
CAL7_1633_052824.d	NFDHA	13C5-PFHxA - ISTD	Calibration	5.023	112250	166158	0.6756	24.1149	25.0000	96.5
CAL8_1633_052824.d	NFDHA	13C5-PFHxA - ISTD	Calibration	5.023	209156	155145	1.3481	48.1232	50.0000	96.2
CAL9_1633_052824.d	NFDHA	13C5-PFHxA - ISTD	Calibration	5.023	379942	139712	2.7195	97.0741	100.0000	97.1
CALA_1633_052824.d	NFDHA	13C5-PFHxA - ISTD	Calibration	5.023	437654	139421	3.1391	112.0529	125.0000	89.6
IBL1_1633_052824.d	NFDHA	13C5-PFHxA - ISTD	Sample	5.040	0	141603	0.0000	ND		
ICV_1633_052824.d	NFDHA	13C5-PFHxA - ISTD	QC	5.032	38543	148525	0.2595	9.2634	10.0000	92.6
BIC_1633_052824.d	NFDHA	13C5-PFHxA - ISTD	Sample	5.032	0	140320	0.0000	ND		

13C5-PFHxA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	13C5-PFHxA	13C2-PFHxA	Calibration	5.109	169772	148436	1.1437	2.6994	2.5000	108.0
CAL2_1633_052824.d	13C5-PFHxA	13C2-PFHxA	Calibration	5.109	159773	151638	1.0536	2.4868	2.5000	99.5
CAL3_1633_052824.d	13C5-PFHxA	13C2-PFHxA	Calibration	5.109	131462	152654	0.8612	2.0325	2.5000	81.3
CAL4_1633_052824.d	13C5-PFHxA	13C2-PFHxA	Calibration	5.109	161126	156517	1.0295	2.4297	2.5000	97.2
CAL5_1633_052824.d	13C5-PFHxA	13C2-PFHxA	Calibration	5.101	175668	162432	1.0815	2.5525	2.5000	102.1
CAL6_1633_052824.d	13C5-PFHxA	13C2-PFHxA	Calibration	5.109	164607	155300	1.0599	2.5016	2.5000	100.1
CAL7_1633_052824.d	13C5-PFHxA	13C2-PFHxA	Calibration	5.109	166158	148840	1.1164	2.6348	2.5000	105.4
CAL8_1633_052824.d	13C5-PFHxA	13C2-PFHxA	Calibration	5.101	155145	142278	1.0904	2.5736	2.5000	102.9
CAL9_1633_052824.d	13C5-PFHxA	13C2-PFHxA	Calibration	5.101	139712	131050	1.0661	2.5162	2.5000	100.6
CALA_1633_052824.d	13C5-PFHxA	13C2-PFHxA	Calibration	5.101	139421	127885	1.0902	2.5731	2.5000	102.9
IBL1_1633_052824.d	13C5-PFHxA	13C2-PFHxA	Sample	5.109	141603	123215	1.1492	2.7124		
ICV_1633_052824.d	13C5-PFHxA	13C2-PFHxA	QC	5.109	148525	125156	1.1867	2.8008	2.5000	112.0
BIC_1633_052824.d	13C5-PFHxA	13C2-PFHxA	Sample	5.109	140320	119952	1.1698	2.7609		

PFHxA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	PFHxA	13C5-PFHxA - ISTD	Calibration	5.111	5692	169772	0.0335	0.0856	0.1000	85.6
CAL2_1633_052824.d	PFHxA	13C5-PFHxA - ISTD	Calibration	5.111	11582	159773	0.0725	0.1850	0.2000	92.5
CAL3_1633_052824.d	PFHxA	13C5-PFHxA - ISTD	Calibration	5.103	31206	131462	0.2374	0.6058	0.5000	121.2
CAL4_1633_052824.d	PFHxA	13C5-PFHxA - ISTD	Calibration	5.111	75783	161126	0.4703	1.2003	1.2500	96.0
CAL5_1633_052824.d	PFHxA	13C5-PFHxA - ISTD	Calibration	5.103	168794	175668	0.9609	2.4521	2.5000	98.1
CAL6_1633_052824.d	PFHxA	13C5-PFHxA - ISTD	Calibration	5.103	314645	164607	1.9115	4.8781	5.0000	97.6
CAL7_1633_052824.d	PFHxA	13C5-PFHxA - ISTD	Calibration	5.111	802343	166158	4.8288	12.3230	12.5000	98.6
CAL8_1633_052824.d	PFHxA	13C5-PFHxA - ISTD	Calibration	5.103	1524141	155145	9.8240	25.0706	25.0000	100.3
CAL9_1633_052824.d	PFHxA	13C5-PFHxA - ISTD	Calibration	5.103	2936285	139712	21.0166	53.6342	50.0000	107.3
CALA_1633_052824.d	PFHxA	13C5-PFHxA - ISTD	Calibration	5.103	3515937	139421	25.2181	64.3562	62.5000	103.0
IBL1_1633_052824.d	PFHxA	13C5-PFHxA - ISTD	Sample	5.103	0	141603	0.0000	ND		
ICV_1633_052824.d	PFHxA	13C5-PFHxA - ISTD	QC	5.111	546440	148525	3.6791	9.3890	10.0000	93.9

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PFHxA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
BIC_1633_052824.d	PFHxA	13C5-PFHxA - ISTD	Sample	5.111	1196	140320	0.0085	0.0218		

13C3-PFBS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	13C3-PFBS	18O2-PFHxS	Calibration	5.129	74067	44900	1.6496	2.7778	2.5000	111.1
CAL2_1633_052824.d	13C3-PFBS	18O2-PFHxS	Calibration	5.120	68901	45227	1.5234	2.5653	2.5000	102.6
CAL3_1633_052824.d	13C3-PFBS	18O2-PFHxS	Calibration	5.120	56573	46538	1.2156	2.0470	2.5000	81.9
CAL4_1633_052824.d	13C3-PFBS	18O2-PFHxS	Calibration	5.120	70206	47139	1.4893	2.5079	2.5000	100.3
CAL5_1633_052824.d	13C3-PFBS	18O2-PFHxS	Calibration	5.120	77054	50357	1.5302	2.5766	2.5000	103.1
CAL6_1633_052824.d	13C3-PFBS	18O2-PFHxS	Calibration	5.120	70853	46958	1.5089	2.5408	2.5000	101.6
CAL7_1633_052824.d	13C3-PFBS	18O2-PFHxS	Calibration	5.120	70338	43998	1.5987	2.6920	2.5000	107.7
CAL8_1633_052824.d	13C3-PFBS	18O2-PFHxS	Calibration	5.120	63274	42780	1.4791	2.4906	2.5000	99.6
CAL9_1633_052824.d	13C3-PFBS	18O2-PFHxS	Calibration	5.120	57316	39304	1.4583	2.4556	2.5000	98.2
CALA_1633_052824.d	13C3-PFBS	18O2-PFHxS	Calibration	5.120	54934	39421	1.3935	2.3465	2.5000	93.9
IBL1_1633_052824.d	13C3-PFBS	18O2-PFHxS	Sample	5.120	61277	40384	1.5174	2.5551		
ICV_1633_052824.d	13C3-PFBS	18O2-PFHxS	QC	5.129	61849	39040	1.5842	2.6677	2.5000	106.7
BIC_1633_052824.d	13C3-PFBS	18O2-PFHxS	Sample	5.129	61179	38604	1.5848	2.6686		

PFBS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	PFBS	13C3-PFBS - ISTD	Calibration	5.129	2375	74067	0.0321	0.0679	0.0887	76.5
CAL2_1633_052824.d	PFBS	13C3-PFBS - ISTD	Calibration	5.121	5947	68901	0.0863	0.1827	0.1774	103.0
CAL3_1633_052824.d	PFBS	13C3-PFBS - ISTD	Calibration	5.121	14050	56573	0.2484	0.5258	0.4435	118.6
CAL4_1633_052824.d	PFBS	13C3-PFBS - ISTD	Calibration	5.121	35465	70206	0.5052	1.0694	1.1090	96.4
CAL5_1633_052824.d	PFBS	13C3-PFBS - ISTD	Calibration	5.121	77675	77054	1.0081	2.1341	2.2180	96.2
CAL6_1633_052824.d	PFBS	13C3-PFBS - ISTD	Calibration	5.121	147159	70853	2.0770	4.3970	4.4350	99.1
CAL7_1633_052824.d	PFBS	13C3-PFBS - ISTD	Calibration	5.121	369667	70338	5.2556	11.1262	11.0880	100.3
CAL8_1633_052824.d	PFBS	13C3-PFBS - ISTD	Calibration	5.121	682739	63274	10.7902	22.8430	22.1750	103.0
CAL9_1633_052824.d	PFBS	13C3-PFBS - ISTD	Calibration	5.121	1252510	57316	21.8529	46.2629	44.3500	104.3
CALA_1633_052824.d	PFBS	13C3-PFBS - ISTD	Calibration	5.121	1473761	54934	26.8276	56.7944	55.4380	102.4
IBL1_1633_052824.d	PFBS	13C3-PFBS - ISTD	Sample	5.048	0	61277	0.0000	ND		
ICV_1633_052824.d	PFBS	13C3-PFBS - ISTD	QC	5.129	287974	61849	4.6561	9.8571	10.0000	98.6
BIC_1633_052824.d	PFBS	13C3-PFBS - ISTD	Sample	4.900	0	61179	0.0000	ND		

13C3-HFPODA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	13C3-HFPODA	13C2-PFHxA	Calibration	5.375	201345	148436	1.3564	11.1628	10.0000	111.6
CAL2_1633_052824.d	13C3-HFPODA	13C2-PFHxA	Calibration	5.367	191638	151638	1.2638	10.4003	10.0000	104.0
CAL3_1633_052824.d	13C3-HFPODA	13C2-PFHxA	Calibration	5.367	155330	152654	1.0175	8.3737	10.0000	83.7
CAL4_1633_052824.d	13C3-HFPODA	13C2-PFHxA	Calibration	5.375	188400	156517	1.2037	9.9059	10.0000	99.1
CAL5_1633_052824.d	13C3-HFPODA	13C2-PFHxA	Calibration	5.367	205495	162432	1.2651	10.4112	10.0000	104.1
CAL6_1633_052824.d	13C3-HFPODA	13C2-PFHxA	Calibration	5.367	192432	155300	1.2391	10.1971	10.0000	102.0

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13C3-HFPODA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL7_1633_052824.d	13C3-HFPODA	13C2-PFHxA	Calibration	5.367	193918	148840	1.3029	10.7219	10.0000	107.2
CAL8_1633_052824.d	13C3-HFPODA	13C2-PFHxA	Calibration	5.367	167915	142278	1.1802	9.7123	10.0000	97.1
CAL9_1633_052824.d	13C3-HFPODA	13C2-PFHxA	Calibration	5.367	156974	131050	1.1978	9.8574	10.0000	98.6
CALA_1633_052824.d	13C3-HFPODA	13C2-PFHxA	Calibration	5.367	143858	127885	1.1249	9.2573	10.0000	92.6
IBL1_1633_052824.d	13C3-HFPODA	13C2-PFHxA	Sample	5.375	163956	123215	1.3306	10.9505		
ICV_1633_052824.d	13C3-HFPODA	13C2-PFHxA	QC	5.375	168936	125156	1.3498	11.1082	10.0000	111.1
BIC_1633_052824.d	13C3-HFPODA	13C2-PFHxA	Sample	5.375	163265	119952	1.3611	11.2010		

HFPO-DA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	HFPO-DA	13C3-HFPODA - ISTD	Calibration	5.376	5153	201345	0.0256	0.2998	0.4000	74.9
CAL2_1633_052824.d	HFPO-DA	13C3-HFPODA - ISTD	Calibration	5.368	13519	191638	0.0705	0.8263	0.8000	103.3
CAL3_1633_052824.d	HFPO-DA	13C3-HFPODA - ISTD	Calibration	5.368	31196	155330	0.2008	2.3524	2.0000	117.6
CAL4_1633_052824.d	HFPO-DA	13C3-HFPODA - ISTD	Calibration	5.376	78996	188400	0.4193	4.9112	5.0000	98.2
CAL5_1633_052824.d	HFPO-DA	13C3-HFPODA - ISTD	Calibration	5.368	164385	205495	0.7999	9.3697	10.0000	93.7
CAL6_1633_052824.d	HFPO-DA	13C3-HFPODA - ISTD	Calibration	5.368	332024	192432	1.7254	20.2096	20.0000	101.0
CAL7_1633_052824.d	HFPO-DA	13C3-HFPODA - ISTD	Calibration	5.368	823088	193918	4.2445	49.7156	50.0000	99.4
CAL8_1633_052824.d	HFPO-DA	13C3-HFPODA - ISTD	Calibration	5.368	1493948	167915	8.8971	104.2105	100.0000	104.2
CAL9_1633_052824.d	HFPO-DA	13C3-HFPODA - ISTD	Calibration	5.368	2784141	156974	17.7363	207.7435	200.0000	103.9
CALA_1633_052824.d	HFPO-DA	13C3-HFPODA - ISTD	Calibration	5.368	3183416	143858	22.1289	259.1941	250.0000	103.7
IBL1_1633_052824.d	HFPO-DA	13C3-HFPODA - ISTD	Sample	5.360	0	163956	0.0000	ND		
ICV_1633_052824.d	HFPO-DA	13C3-HFPODA - ISTD	QC	5.376	144143	168936	0.8532	9.9939	10.0000	99.9
BIC_1633_052824.d	HFPO-DA	13C3-HFPODA - ISTD	Sample	5.368	0	163265	0.0000	ND		

5:3FTCA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	5:3FTCA	13C5-PFHxA - ISTD	Calibration	5.509	33770	169772	0.1989	3.8734	5.0000	77.5
CAL2_1633_052824.d	5:3FTCA	13C5-PFHxA - ISTD	Calibration	5.501	73824	159773	0.4621	8.9975	10.0000	90.0
CAL3_1633_052824.d	5:3FTCA	13C5-PFHxA - ISTD	Calibration	5.501	187983	131462	1.4299	27.8449	25.0000	111.4
CAL4_1633_052824.d	5:3FTCA	13C5-PFHxA - ISTD	Calibration	5.509	482021	161126	2.9916	58.2541	62.5000	93.2
CAL5_1633_052824.d	5:3FTCA	13C5-PFHxA - ISTD	Calibration	5.501	1079795	175668	6.1468	119.6948	125.0000	95.8
CAL6_1633_052824.d	5:3FTCA	13C5-PFHxA - ISTD	Calibration	5.501	2101059	164607	12.7641	248.5524	250.0000	99.4
CAL7_1633_052824.d	5:3FTCA	13C5-PFHxA - ISTD	Calibration	5.501	5302385	166158	31.9117	621.4083	625.0000	99.4
CAL8_1633_052824.d	5:3FTCA	13C5-PFHxA - ISTD	Calibration	5.501	10449291	155145	67.3517	1311.5231	1250.0000	104.9
CAL9_1633_052824.d	5:3FTCA	13C5-PFHxA - ISTD	Calibration	5.493	20527630	139712	146.9278	2861.0866	2500.0000	114.4
CALA_1633_052824.d	5:3FTCA	13C5-PFHxA - ISTD	Calibration	5.493	25466888	139421	182.6614	3556.9194	3120.0000	114.0
IBL1_1633_052824.d	5:3FTCA	13C5-PFHxA - ISTD	Sample	5.493	1613	141603	0.0114	0.2218		
ICV_1633_052824.d	5:3FTCA	13C5-PFHxA - ISTD	QC	5.509	70224	148525	0.4728	9.2069	10.0000	92.0
BIC_1633_052824.d	5:3FTCA	13C5-PFHxA - ISTD	Sample	5.509	0	140320	0.0000	ND		

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PFEESA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	PFEESA	13C5-PFHxA - ISTD	Calibration	5.511	14930	169772	0.0879	0.1500	0.1780	84.2
CAL2_1633_052824.d	PFEESA	13C5-PFHxA - ISTD	Calibration	5.511	33036	159773	0.2068	0.3526	0.3560	99.0
CAL3_1633_052824.d	PFEESA	13C5-PFHxA - ISTD	Calibration	5.503	85059	131462	0.6470	1.1033	0.8900	124.0
CAL4_1633_052824.d	PFEESA	13C5-PFHxA - ISTD	Calibration	5.511	218184	161126	1.3541	2.3091	2.2250	103.8
CAL5_1633_052824.d	PFEESA	13C5-PFHxA - ISTD	Calibration	5.503	461143	175668	2.6251	4.4763	4.4500	100.6
CAL6_1633_052824.d	PFEESA	13C5-PFHxA - ISTD	Calibration	5.503	849783	164607	5.1625	8.8032	8.9000	98.9
CAL7_1633_052824.d	PFEESA	13C5-PFHxA - ISTD	Calibration	5.503	2122267	166158	12.7726	21.7800	22.2500	97.9
CAL8_1633_052824.d	PFEESA	13C5-PFHxA - ISTD	Calibration	5.503	3979325	155145	25.6491	43.7371	44.5000	98.3
CAL9_1633_052824.d	PFEESA	13C5-PFHxA - ISTD	Calibration	5.503	7271875	139712	52.0489	88.7545	89.0000	99.7
CALA_1633_052824.d	PFEESA	13C5-PFHxA - ISTD	Calibration	5.503	8511017	139421	61.0453	104.0953	111.2500	93.6
IBL1_1633_052824.d	PFEESA	13C5-PFHxA - ISTD	Sample	5.519	0	141603	0.0000	ND		
ICV_1633_052824.d	PFEESA	13C5-PFHxA - ISTD	QC	5.511	755459	148525	5.0864	8.6734	10.0000	86.7
BIC_1633_052824.d	PFEESA	13C5-PFHxA - ISTD	Sample	5.511	0	140320	0.0000	ND		

TDCA

Data File	Compound	Sample Type	RT	Resp.	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	TDCA	Calibration	5.572	6	ND		
CAL2_1633_052824.d	TDCA	Calibration	5.564	3	ND		
CAL3_1633_052824.d	TDCA	Calibration	5.531	3	ND		
CAL4_1633_052824.d	TDCA	Calibration	5.458	7	ND		
CAL5_1633_052824.d	TDCA	Calibration	5.540	5	ND		
CAL6_1633_052824.d	TDCA	Calibration	6.154	22	ND		
CAL7_1633_052824.d	TDCA	Calibration	5.654	9	ND		
CAL8_1633_052824.d	TDCA	Calibration	5.474	17	ND		
CAL9_1633_052824.d	TDCA	Calibration	5.908	14	ND		
CALA_1633_052824.d	TDCA	Calibration	5.515	9	ND		
IBL1_1633_052824.d	TDCA	Sample	6.121	11	ND		
ICV_1633_052824.d	TDCA	QC	5.417	2	ND		
BIC_1633_052824.d	TDCA	Sample			ND		

13C4-PFHpA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	13C4-PFHpA	13C2-PFHxA	Calibration	5.789	216653	148436	1.4596	2.6406	2.5000	105.6
CAL2_1633_052824.d	13C4-PFHpA	13C2-PFHxA	Calibration	5.781	201579	151638	1.3293	2.4050	2.5000	96.2
CAL3_1633_052824.d	13C4-PFHpA	13C2-PFHxA	Calibration	5.781	168035	152654	1.1008	1.9914	2.5000	79.7
CAL4_1633_052824.d	13C4-PFHpA	13C2-PFHxA	Calibration	5.789	203652	156517	1.3012	2.3540	2.5000	94.2
CAL5_1633_052824.d	13C4-PFHpA	13C2-PFHxA	Calibration	5.781	231340	162432	1.4242	2.5766	2.5000	103.1
CAL6_1633_052824.d	13C4-PFHpA	13C2-PFHxA	Calibration	5.781	214698	155300	1.3825	2.5011	2.5000	100.0
CAL7_1633_052824.d	13C4-PFHpA	13C2-PFHxA	Calibration	5.781	214346	148840	1.4401	2.6054	2.5000	104.2
CAL8_1633_052824.d	13C4-PFHpA	13C2-PFHxA	Calibration	5.781	206658	142278	1.4525	2.6278	2.5000	105.1
CAL9_1633_052824.d	13C4-PFHpA	13C2-PFHxA	Calibration	5.781	192918	131050	1.4721	2.6633	2.5000	106.5

13C4-PFHpA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CALA_1633_052824.d	13C4-PFHpA	13C2-PFHxA	Calibration	5.781	186246	127885	1.4564	2.6348	2.5000	105.4
IBL1_1633_052824.d	13C4-PFHpA	13C2-PFHxA	Sample	5.789	187468	123215	1.5215	2.7526		
ICV_1633_052824.d	13C4-PFHpA	13C2-PFHxA	QC	5.789	190972	125156	1.5259	2.7605	2.5000	110.4
BIC_1633_052824.d	13C4-PFHpA	13C2-PFHxA	Sample	5.789	190677	119952	1.5896	2.8759		

PFHpA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	PFHpA	13C4-PFHpA - ISTD	Calibration	5.789	7450	216653	0.0344	0.0831	0.1000	83.1
CAL2_1633_052824.d	PFHpA	13C4-PFHpA - ISTD	Calibration	5.781	16649	201579	0.0826	0.1995	0.2000	99.7
CAL3_1633_052824.d	PFHpA	13C4-PFHpA - ISTD	Calibration	5.781	39279	168035	0.2338	0.5646	0.5000	112.9
CAL4_1633_052824.d	PFHpA	13C4-PFHpA - ISTD	Calibration	5.789	101458	203652	0.4982	1.2032	1.2500	96.3
CAL5_1633_052824.d	PFHpA	13C4-PFHpA - ISTD	Calibration	5.781	232411	231340	1.0046	2.4264	2.5000	97.1
CAL6_1633_052824.d	PFHpA	13C4-PFHpA - ISTD	Calibration	5.781	439449	214698	2.0468	4.9435	5.0000	98.9
CAL7_1633_052824.d	PFHpA	13C4-PFHpA - ISTD	Calibration	5.781	1086134	214346	5.0672	12.2382	12.5000	97.9
CAL8_1633_052824.d	PFHpA	13C4-PFHpA - ISTD	Calibration	5.781	2173340	206658	10.5166	25.3996	25.0000	101.6
CAL9_1633_052824.d	PFHpA	13C4-PFHpA - ISTD	Calibration	5.781	4266285	192918	22.1145	53.4106	50.0000	106.8
CALA_1633_052824.d	PFHpA	13C4-PFHpA - ISTD	Calibration	5.781	5098864	186246	27.3771	66.1208	62.5000	105.8
IBL1_1633_052824.d	PFHpA	13C4-PFHpA - ISTD	Sample	5.789	0	187468	0.0000	ND		
ICV_1633_052824.d	PFHpA	13C4-PFHpA - ISTD	QC	5.789	687521	190972	3.6001	8.6950	10.0000	86.9
BIC_1633_052824.d	PFHpA	13C4-PFHpA - ISTD	Sample	5.789	4904	190677	0.0257	0.0621		

PFPeS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	PFPeS	13C3-PFHxS - ISTD	Calibration	5.906	1931	49140	0.0393	0.0725	0.0941	77.1
CAL2_1633_052824.d	PFPeS	13C3-PFHxS - ISTD	Calibration	5.898	4893	45454	0.1077	0.1987	0.1882	105.6
CAL3_1633_052824.d	PFPeS	13C3-PFHxS - ISTD	Calibration	5.898	11164	39583	0.2820	0.5206	0.4705	110.7
CAL4_1633_052824.d	PFPeS	13C3-PFHxS - ISTD	Calibration	5.906	28911	46786	0.6179	1.1407	1.1760	97.0
CAL5_1633_052824.d	PFPeS	13C3-PFHxS - ISTD	Calibration	5.898	64904	53441	1.2145	2.2419	2.3530	95.3
CAL6_1633_052824.d	PFPeS	13C3-PFHxS - ISTD	Calibration	5.898	123605	48111	2.5692	4.7426	4.7050	100.8
CAL7_1633_052824.d	PFPeS	13C3-PFHxS - ISTD	Calibration	5.898	311358	48302	6.4461	11.8992	11.7630	101.2
CAL8_1633_052824.d	PFPeS	13C3-PFHxS - ISTD	Calibration	5.898	587517	45373	12.9486	23.9027	23.5250	101.6
CAL9_1633_052824.d	PFPeS	13C3-PFHxS - ISTD	Calibration	5.898	1116256	41478	26.9120	49.6787	47.0500	105.6
CALA_1633_052824.d	PFPeS	13C3-PFHxS - ISTD	Calibration	5.898	1345229	40119	33.5310	61.8971	58.8130	105.2
IBL1_1633_052824.d	PFPeS	13C3-PFHxS - ISTD	Sample	5.857	0	43340	0.0000	ND		
ICV_1633_052824.d	PFPeS	13C3-PFHxS - ISTD	QC	5.906	231248	43756	5.2849	9.7558	10.0000	97.6
BIC_1633_052824.d	PFPeS	13C3-PFHxS - ISTD	Sample	5.790	0	44478	0.0000	ND		

ADONA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	ADONA	13C3-HFPODA - ISTD	Calibration	6.004	41642	201345	0.2068	0.2753	0.3780	72.8
CAL2_1633_052824.d	ADONA	13C3-HFPODA - ISTD	Calibration	5.995	104057	191638	0.5430	0.7229	0.7560	95.6
CAL3_1633_052824.d	ADONA	13C3-HFPODA - ISTD	Calibration	5.995	242188	155330	1.5592	2.0757	1.8900	109.8

ADONA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL4_1633_052824.d	ADONA	13C3-HFPODA - ISTD	Calibration	6.004	625688	188400	3.3211	4.4213	4.7250	93.6
CAL5_1633_052824.d	ADONA	13C3-HFPODA - ISTD	Calibration	5.995	1277562	205495	6.2170	8.2766	9.4500	87.6
CAL6_1633_052824.d	ADONA	13C3-HFPODA - ISTD	Calibration	5.995	2622225	192432	13.6268	18.1411	18.9000	96.0
CAL7_1633_052824.d	ADONA	13C3-HFPODA - ISTD	Calibration	5.995	6560406	193918	33.8308	45.0383	47.2500	95.3
CAL8_1633_052824.d	ADONA	13C3-HFPODA - ISTD	Calibration	5.995	13202888	167915	78.6285	104.6767	94.5000	110.8
CAL9_1633_052824.d	ADONA	13C3-HFPODA - ISTD	Calibration	5.995	26335686	156974	167.7708	223.3502	189.0000	118.2
CALA_1633_052824.d	ADONA	13C3-HFPODA - ISTD	Calibration	5.995	30714988	143858	213.5097	284.2415	236.2500	120.3
IBL1_1633_052824.d	ADONA	13C3-HFPODA - ISTD	Sample	6.004	0	163956	0.0000	ND		
ICV_1633_052824.d	ADONA	13C3-HFPODA - ISTD	QC	6.004	1113987	168936	6.5941	8.7786	10.0000	87.8
BIC_1633_052824.d	ADONA	13C3-HFPODA - ISTD	Sample	6.004	0	163265	0.0000	ND		

13C2-6:2FTS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	13C2-6:2FTS	18O2-PFHxS	Calibration	6.113	103538	44900	2.3060	5.0961	5.0000	101.9
CAL2_1633_052824.d	13C2-6:2FTS	18O2-PFHxS	Calibration	6.105	97576	45227	2.1575	4.7679	5.0000	95.4
CAL3_1633_052824.d	13C2-6:2FTS	18O2-PFHxS	Calibration	6.113	82454	46538	1.7718	3.9155	5.0000	78.3
CAL4_1633_052824.d	13C2-6:2FTS	18O2-PFHxS	Calibration	6.113	100658	47139	2.1354	4.7191	5.0000	94.4
CAL5_1633_052824.d	13C2-6:2FTS	18O2-PFHxS	Calibration	6.105	115444	50357	2.2925	5.0663	5.0000	101.3
CAL6_1633_052824.d	13C2-6:2FTS	18O2-PFHxS	Calibration	6.113	110663	46958	2.3567	5.2081	5.0000	104.2
CAL7_1633_052824.d	13C2-6:2FTS	18O2-PFHxS	Calibration	6.113	123975	43998	2.8178	6.2271	5.0000	124.5
CAL8_1633_052824.d	13C2-6:2FTS	18O2-PFHxS	Calibration	6.113	150076	42780	3.5081	7.7528	5.0000	155.1
CAL9_1633_052824.d	13C2-6:2FTS	18O2-PFHxS	Calibration	6.105	199362	39304	5.0724	11.2096	5.0000	224.2
CALA_1633_052824.d	13C2-6:2FTS	18O2-PFHxS	Calibration	6.113	214023	39421	5.4291	11.9981	5.0000	240.0
IBL1_1633_052824.d	13C2-6:2FTS	18O2-PFHxS	Sample	6.113	88310	40384	2.1868	4.8326		
ICV_1633_052824.d	13C2-6:2FTS	18O2-PFHxS	QC	6.113	95176	39040	2.4379	5.3876	5.0000	107.8
BIC_1633_052824.d	13C2-6:2FTS	18O2-PFHxS	Sample	6.113	88566	38604	2.2942	5.0701		

6:2FTS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	6:2FTS	13C2-6:2FTS - ISTD	Calibration	6.114	6035	32694	0.1846	0.3247	0.3800	85.4
CAL2_1633_052824.d	6:2FTS	13C2-6:2FTS - ISTD	Calibration	6.106	12994	29693	0.4376	0.7697	0.7600	101.3
CAL3_1633_052824.d	6:2FTS	13C2-6:2FTS - ISTD	Calibration	6.106	31094	24584	1.2648	2.2248	1.9000	117.1
CAL4_1633_052824.d	6:2FTS	13C2-6:2FTS - ISTD	Calibration	6.114	78971	30028	2.6300	4.6260	4.7500	97.4
CAL5_1633_052824.d	6:2FTS	13C2-6:2FTS - ISTD	Calibration	6.106	170663	33124	5.1522	9.0624	9.5000	95.4
CAL6_1633_052824.d	6:2FTS	13C2-6:2FTS - ISTD	Calibration	6.106	311799	27724	11.2465	19.7819	19.0000	104.1
CAL7_1633_052824.d	6:2FTS	13C2-6:2FTS - ISTD	Calibration	6.114	701751	26172	26.8133	47.1630	47.5000	99.3
CAL8_1633_052824.d	6:2FTS	13C2-6:2FTS - ISTD	Calibration	6.114	1252139	24355	51.4113	90.4294	95.0000	95.2
CAL9_1633_052824.d	6:2FTS	13C2-6:2FTS - ISTD	Calibration	6.106	2184295	21825	100.0814	176.0373	190.0000	92.6
CALA_1633_052824.d	6:2FTS	13C2-6:2FTS - ISTD	Calibration	6.114	2533216	21563	117.4786	206.6380		
IBL1_1633_052824.d	6:2FTS	13C2-6:2FTS - ISTD	Sample	6.098	0	28076	0.0000	ND		
ICV_1633_052824.d	6:2FTS	13C2-6:2FTS - ISTD	QC	6.114	143990	27034	5.3263	9.3686	10.0000	93.7

6:2FTS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
BIC_1633_052824.d	6:2FTS	13C2-6:2FTS - ISTD	Sample	6.106	0	27894	0.0000	ND		

13C8-PFOA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	13C8-PFOA	13C4-PFOA	Calibration	6.328	194644	22506	8.6486	2.6432	2.5000	105.7
CAL2_1633_052824.d	13C8-PFOA	13C4-PFOA	Calibration	6.320	181136	23759	7.6239	2.3300	2.5000	93.2
CAL3_1633_052824.d	13C8-PFOA	13C4-PFOA	Calibration	6.320	146520	22799	6.4264	1.9640	2.5000	78.6
CAL4_1633_052824.d	13C8-PFOA	13C4-PFOA	Calibration	6.328	189985	23574	8.0589	2.4630	2.5000	98.5
CAL5_1633_052824.d	13C8-PFOA	13C4-PFOA	Calibration	6.320	211550	24580	8.6064	2.6303	2.5000	105.2
CAL6_1633_052824.d	13C8-PFOA	13C4-PFOA	Calibration	6.320	191643	24099	7.9523	2.4304	2.5000	97.2
CAL7_1633_052824.d	13C8-PFOA	13C4-PFOA	Calibration	6.320	193565	21880	8.8466	2.7037	2.5000	108.1
CAL8_1633_052824.d	13C8-PFOA	13C4-PFOA	Calibration	6.320	184490	20935	8.8125	2.6933	2.5000	107.7
CAL9_1633_052824.d	13C8-PFOA	13C4-PFOA	Calibration	6.320	167733	19726	8.5034	2.5988	2.5000	104.0
CALA_1633_052824.d	13C8-PFOA	13C4-PFOA	Calibration	6.320	165151	19845	8.3222	2.5434	2.5000	101.7
IBL1_1633_052824.d	13C8-PFOA	13C4-PFOA	Sample	6.328	173064	18838	9.1872	2.8078		
ICV_1633_052824.d	13C8-PFOA	13C4-PFOA	QC	6.328	173792	20497	8.4788	2.5913	2.5000	103.7
BIC_1633_052824.d	13C8-PFOA	13C4-PFOA	Sample	6.328	171626	18115	9.4741	2.8955		

PFOA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	PFOA	13C8-PFOA - ISTD	Calibration	6.329	7770	194644	0.0399	0.0869	0.1000	86.9
CAL2_1633_052824.d	PFOA	13C8-PFOA - ISTD	Calibration	6.321	17463	181136	0.0964	0.2100	0.2000	105.0
CAL3_1633_052824.d	PFOA	13C8-PFOA - ISTD	Calibration	6.321	40972	146520	0.2796	0.6090	0.5000	121.8
CAL4_1633_052824.d	PFOA	13C8-PFOA - ISTD	Calibration	6.329	104506	189985	0.5501	1.1979	1.2500	95.8
CAL5_1633_052824.d	PFOA	13C8-PFOA - ISTD	Calibration	6.321	233135	211550	1.1020	2.4000	2.5000	96.0
CAL6_1633_052824.d	PFOA	13C8-PFOA - ISTD	Calibration	6.321	432347	191643	2.2560	4.9131	5.0000	98.3
CAL7_1633_052824.d	PFOA	13C8-PFOA - ISTD	Calibration	6.321	1066845	193565	5.5116	12.0029	12.5000	96.0
CAL8_1633_052824.d	PFOA	13C8-PFOA - ISTD	Calibration	6.329	2044468	184490	11.0817	24.1335	25.0000	96.5
CAL9_1633_052824.d	PFOA	13C8-PFOA - ISTD	Calibration	6.321	3933091	167733	23.4485	51.0655	50.0000	102.1
CALA_1633_052824.d	PFOA	13C8-PFOA - ISTD	Calibration	6.321	4811027	165151	29.1311	63.4409	62.5000	101.5
IBL1_1633_052824.d	PFOA	13C8-PFOA - ISTD	Sample	6.337	0	173064	0.0000	ND		
ICV_1633_052824.d	PFOA	13C8-PFOA - ISTD	QC	6.329	659125	173792	3.7926	8.2594	10.0000	82.6
BIC_1633_052824.d	PFOA	13C8-PFOA - ISTD	Sample	6.329	543439	171626	3.1664	6.8957		

13C3-PFHxS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	13C3-PFHxS	18O2-PFHxS	Calibration	6.496	49140	44900	1.0944	2.6668	2.5000	106.7
CAL2_1633_052824.d	13C3-PFHxS	18O2-PFHxS	Calibration	6.496	45454	45227	1.0050	2.4489	2.5000	98.0
CAL3_1633_052824.d	13C3-PFHxS	18O2-PFHxS	Calibration	6.496	39583	46538	0.8506	2.0725	2.5000	82.9
CAL4_1633_052824.d	13C3-PFHxS	18O2-PFHxS	Calibration	6.496	46786	47139	0.9925	2.4185	2.5000	96.7
CAL5_1633_052824.d	13C3-PFHxS	18O2-PFHxS	Calibration	6.496	53441	50357	1.0612	2.5859	2.5000	103.4
CAL6_1633_052824.d	13C3-PFHxS	18O2-PFHxS	Calibration	6.496	48111	46958	1.0246	2.4966	2.5000	99.9

13C3-PFHxS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL7_1633_052824.d	13C3-PFHxS	18O2-PFHxS	Calibration	6.496	48302	43998	1.0978	2.6751	2.5000	107.0
CAL8_1633_052824.d	13C3-PFHxS	18O2-PFHxS	Calibration	6.496	45373	42780	1.0606	2.5844	2.5000	103.4
CAL9_1633_052824.d	13C3-PFHxS	18O2-PFHxS	Calibration	6.496	41478	39304	1.0553	2.5715	2.5000	102.9
CALA_1633_052824.d	13C3-PFHxS	18O2-PFHxS	Calibration	6.496	40119	39421	1.0177	2.4798	2.5000	99.2
IBL1_1633_052824.d	13C3-PFHxS	18O2-PFHxS	Sample	6.504	43340	40384	1.0732	2.6151		
ICV_1633_052824.d	13C3-PFHxS	18O2-PFHxS	QC	6.496	43756	39040	1.1208	2.7310	2.5000	109.2
BIC_1633_052824.d	13C3-PFHxS	18O2-PFHxS	Sample	6.496	44478	38604	1.1522	2.8075		

PFHxS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	PFHxS	13C3-PFHxS - ISTD	Calibration	6.505	2092	49140	0.0426	0.0893	0.0914	97.7
CAL2_1633_052824.d	PFHxS	13C3-PFHxS - ISTD	Calibration	6.497	4172	45454	0.0918	0.1924	0.1828	105.3
CAL3_1633_052824.d	PFHxS	13C3-PFHxS - ISTD	Calibration	6.497	9816	39583	0.2480	0.5200	0.4570	113.8
CAL4_1633_052824.d	PFHxS	13C3-PFHxS - ISTD	Calibration	6.497	23121	46786	0.4942	1.0361	1.1430	90.6
CAL5_1633_052824.d	PFHxS	13C3-PFHxS - ISTD	Calibration	6.497	53891	53441	1.0084	2.1143	2.2850	92.5
CAL6_1633_052824.d	PFHxS	13C3-PFHxS - ISTD	Calibration	6.497	102362	48111	2.1276	4.4609	4.5700	97.6
CAL7_1633_052824.d	PFHxS	13C3-PFHxS - ISTD	Calibration	6.497	254006	48302	5.2587	11.0257	11.4250	96.5
CAL8_1633_052824.d	PFHxS	13C3-PFHxS - ISTD	Calibration	6.497	491999	45373	10.8434	22.7349	22.8500	99.5
CAL9_1633_052824.d	PFHxS	13C3-PFHxS - ISTD	Calibration	6.497	934476	41478	22.5295	47.2364	45.7000	103.4
CALA_1633_052824.d	PFHxS	13C3-PFHxS - ISTD	Calibration	6.497	1127195	40119	28.0964	58.9083	57.1250	103.1
IBL1_1633_052824.d	PFHxS	13C3-PFHxS - ISTD	Sample	6.521	0	43340	0.0000	ND		
ICV_1633_052824.d	PFHxS	13C3-PFHxS - ISTD	QC	6.497	200309	43756	4.5778	9.5981	10.0000	96.0
BIC_1633_052824.d	PFHxS	13C3-PFHxS - ISTD	Sample	6.505	0	44478	0.0000	ND		

7:3FTCA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	7:3FTCA	13C5-PFHxA - ISTD	Calibration	6.666	39978	169772	0.2355	3.6614	5.0000	73.2
CAL2_1633_052824.d	7:3FTCA	13C5-PFHxA - ISTD	Calibration	6.666	91029	159773	0.5697	8.8589	10.0000	88.6
CAL3_1633_052824.d	7:3FTCA	13C5-PFHxA - ISTD	Calibration	6.666	226962	131462	1.7264	26.8444	25.0000	107.4
CAL4_1633_052824.d	7:3FTCA	13C5-PFHxA - ISTD	Calibration	6.674	579400	161126	3.5959	55.9131	62.5000	89.5
CAL5_1633_052824.d	7:3FTCA	13C5-PFHxA - ISTD	Calibration	6.666	1334636	175668	7.5975	118.1330	125.0000	94.5
CAL6_1633_052824.d	7:3FTCA	13C5-PFHxA - ISTD	Calibration	6.666	2547066	164607	15.4737	240.5997	250.0000	96.2
CAL7_1633_052824.d	7:3FTCA	13C5-PFHxA - ISTD	Calibration	6.666	6493998	166158	39.0833	607.7052	625.0000	97.2
CAL8_1633_052824.d	7:3FTCA	13C5-PFHxA - ISTD	Calibration	6.666	13538289	155145	87.2621	1356.8378	1250.0000	108.5
CAL9_1633_052824.d	7:3FTCA	13C5-PFHxA - ISTD	Calibration	6.657	27710678	139712	198.3409	3083.9999	2500.0000	123.4
CALA_1633_052824.d	7:3FTCA	13C5-PFHxA - ISTD	Calibration	6.657	33978706	139421	243.7125	3789.4833	3120.0000	121.5
IBL1_1633_052824.d	7:3FTCA	13C5-PFHxA - ISTD	Sample	6.674	6266	141603	0.0443	0.6881		
ICV_1633_052824.d	7:3FTCA	13C5-PFHxA - ISTD	QC	6.674	80751	148525	0.5437	8.4538	10.0000	84.6
BIC_1633_052824.d	7:3FTCA	13C5-PFHxA - ISTD	Sample	6.674	1022	140320	0.0073	0.1133		

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13C9-PFNA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	13C9-PFNA	13C5-PFNA	Calibration	6.804	92876	112974	0.8221	1.3361	1.2500	106.9
CAL2_1633_052824.d	13C9-PFNA	13C5-PFNA	Calibration	6.795	85704	117640	0.7285	1.1840	1.2500	94.7
CAL3_1633_052824.d	13C9-PFNA	13C5-PFNA	Calibration	6.795	72931	114498	0.6370	1.0352	1.2500	82.8
CAL4_1633_052824.d	13C9-PFNA	13C5-PFNA	Calibration	6.804	89917	119555	0.7521	1.2223	1.2500	97.8
CAL5_1633_052824.d	13C9-PFNA	13C5-PFNA	Calibration	6.804	100053	127086	0.7873	1.2795	1.2500	102.4
CAL6_1633_052824.d	13C9-PFNA	13C5-PFNA	Calibration	6.804	91123	120505	0.7562	1.2290	1.2500	98.3
CAL7_1633_052824.d	13C9-PFNA	13C5-PFNA	Calibration	6.804	93779	113330	0.8275	1.3449	1.2500	107.6
CAL8_1633_052824.d	13C9-PFNA	13C5-PFNA	Calibration	6.804	89040	109887	0.8103	1.3169	1.2500	105.4
CAL9_1633_052824.d	13C9-PFNA	13C5-PFNA	Calibration	6.804	80612	102798	0.7842	1.2745	1.2500	102.0
CALA_1633_052824.d	13C9-PFNA	13C5-PFNA	Calibration	6.804	80137	101947	0.7861	1.2775	1.2500	102.2
IBL1_1633_052824.d	13C9-PFNA	13C5-PFNA	Sample	6.812	83064	99034	0.8387	1.3632		
ICV_1633_052824.d	13C9-PFNA	13C5-PFNA	QC	6.812	83372	97544	0.8547	1.3891	1.2500	111.1
BIC_1633_052824.d	13C9-PFNA	13C5-PFNA	Sample	6.812	84177	99278	0.8479	1.3780		

PFNA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	PFNA	13C9-PFNA - ISTD	Calibration	6.804	5828	92876	0.0628	0.0797	0.1000	79.7
CAL2_1633_052824.d	PFNA	13C9-PFNA - ISTD	Calibration	6.796	12693	85704	0.1481	0.1880	0.2000	94.0
CAL3_1633_052824.d	PFNA	13C9-PFNA - ISTD	Calibration	6.804	33742	72931	0.4627	0.5873	0.5000	117.5
CAL4_1633_052824.d	PFNA	13C9-PFNA - ISTD	Calibration	6.804	86364	89917	0.9605	1.2192	1.2500	97.5
CAL5_1633_052824.d	PFNA	13C9-PFNA - ISTD	Calibration	6.804	191127	100053	1.9103	2.4248	2.5000	97.0
CAL6_1633_052824.d	PFNA	13C9-PFNA - ISTD	Calibration	6.804	362923	91123	3.9828	5.0556	5.0000	101.1
CAL7_1633_052824.d	PFNA	13C9-PFNA - ISTD	Calibration	6.804	914097	93779	9.7473	12.3728	12.5000	99.0
CAL8_1633_052824.d	PFNA	13C9-PFNA - ISTD	Calibration	6.804	1766509	89040	19.8394	25.1832	25.0000	100.7
CAL9_1633_052824.d	PFNA	13C9-PFNA - ISTD	Calibration	6.804	3432891	80612	42.5854	54.0558	50.0000	108.1
CALA_1633_052824.d	PFNA	13C9-PFNA - ISTD	Calibration	6.804	4159922	80137	51.9104	65.8925	62.5000	105.4
IBL1_1633_052824.d	PFNA	13C9-PFNA - ISTD	Sample	6.796	0	83064	0.0000	ND		
ICV_1633_052824.d	PFNA	13C9-PFNA - ISTD	QC	6.812	639027	83372	7.6647	9.7293	10.0000	97.3
BIC_1633_052824.d	PFNA	13C9-PFNA - ISTD	Sample	6.681	1120418	84177	13.3103	16.8954		

PFHpS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	PFHpS	13C8-PFOS - ISTD	Calibration	7.011	1595	41943	0.0380	0.0792	0.0953	83.1
CAL2_1633_052824.d	PFHpS	13C8-PFOS - ISTD	Calibration	7.011	3425	39767	0.0861	0.1792	0.1906	94.0
CAL3_1633_052824.d	PFHpS	13C8-PFOS - ISTD	Calibration	7.011	9296	33186	0.2801	0.5829	0.4765	122.3
CAL4_1633_052824.d	PFHpS	13C8-PFOS - ISTD	Calibration	7.011	23324	41434	0.5629	1.1714	1.1910	98.4
CAL5_1633_052824.d	PFHpS	13C8-PFOS - ISTD	Calibration	7.011	51987	45090	1.1530	2.3993	2.3830	100.7
CAL6_1633_052824.d	PFHpS	13C8-PFOS - ISTD	Calibration	7.011	97119	41829	2.3218	4.8317	4.7650	101.4
CAL7_1633_052824.d	PFHpS	13C8-PFOS - ISTD	Calibration	7.011	237735	41225	5.7668	12.0008	11.9130	100.7
CAL8_1633_052824.d	PFHpS	13C8-PFOS - ISTD	Calibration	7.011	456067	40045	11.3888	23.7002	23.8250	99.5
CAL9_1633_052824.d	PFHpS	13C8-PFOS - ISTD	Calibration	7.011	840824	36306	23.1591	48.1942	47.6500	101.1

PFHpS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CALA_1633_052824.d	PFHpS	13C8-PFOS - ISTD	Calibration	7.011	999573	35348	28.2778	58.8463	59.5630	98.8
IBL1_1633_052824.d	PFHpS	13C8-PFOS - ISTD	Sample	7.019	0	37829	0.0000	ND		
ICV_1633_052824.d	PFHpS	13C8-PFOS - ISTD	QC	7.019	169064	38255	4.4194	9.1968	10.0000	92.0
BIC_1633_052824.d	PFHpS	13C8-PFOS - ISTD	Sample	7.011	0	39337	0.0000	ND		

13C2-8:2FTS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	13C2-8:2FTS	18O2-PFHxS	Calibration	7.038	59250	44900	1.3196	4.8320	5.0000	96.6
CAL2_1633_052824.d	13C2-8:2FTS	18O2-PFHxS	Calibration	7.030	58931	45227	1.3030	4.7712	5.0000	95.4
CAL3_1633_052824.d	13C2-8:2FTS	18O2-PFHxS	Calibration	7.030	49338	46538	1.0602	3.8821	5.0000	77.6
CAL4_1633_052824.d	13C2-8:2FTS	18O2-PFHxS	Calibration	7.038	59660	47139	1.2656	4.6344	5.0000	92.7
CAL5_1633_052824.d	13C2-8:2FTS	18O2-PFHxS	Calibration	7.038	70726	50357	1.4045	5.1428	5.0000	102.9
CAL6_1633_052824.d	13C2-8:2FTS	18O2-PFHxS	Calibration	7.038	67381	46958	1.4349	5.2543	5.0000	105.1
CAL7_1633_052824.d	13C2-8:2FTS	18O2-PFHxS	Calibration	7.038	77900	43998	1.7705	6.4832	5.0000	129.7
CAL8_1633_052824.d	13C2-8:2FTS	18O2-PFHxS	Calibration	7.038	92638	42780	2.1655	7.9293	5.0000	158.6
CAL9_1633_052824.d	13C2-8:2FTS	18O2-PFHxS	Calibration	7.038	123045	39304	3.1306	11.4634	5.0000	229.3
CALA_1633_052824.d	13C2-8:2FTS	18O2-PFHxS	Calibration	7.038	133976	39421	3.3986	12.4446	5.0000	248.9
IBL1_1633_052824.d	13C2-8:2FTS	18O2-PFHxS	Sample	7.046	50796	40384	1.2578	4.6058		
ICV_1633_052824.d	13C2-8:2FTS	18O2-PFHxS	QC	7.046	52741	39040	1.3509	4.9467	5.0000	98.9
BIC_1633_052824.d	13C2-8:2FTS	18O2-PFHxS	Sample	7.046	54208	38604	1.4042	5.1419		

8:2FTS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	8:2FTS	13C2-8:2FTS - ISTD	Calibration	7.039	3581	29791	0.1202	0.3348	0.3840	87.2
CAL2_1633_052824.d	8:2FTS	13C2-8:2FTS - ISTD	Calibration	7.031	7449	28632	0.2602	0.7246	0.7680	94.4
CAL3_1633_052824.d	8:2FTS	13C2-8:2FTS - ISTD	Calibration	7.031	19557	23665	0.8264	2.3017	1.9200	119.9
CAL4_1633_052824.d	8:2FTS	13C2-8:2FTS - ISTD	Calibration	7.039	48608	28043	1.7333	4.8275	4.8000	100.6
CAL5_1633_052824.d	8:2FTS	13C2-8:2FTS - ISTD	Calibration	7.039	107058	31144	3.4376	9.5742	9.6000	99.7
CAL6_1633_052824.d	8:2FTS	13C2-8:2FTS - ISTD	Calibration	7.039	189179	27514	6.8757	19.1502	19.2000	99.7
CAL7_1633_052824.d	8:2FTS	13C2-8:2FTS - ISTD	Calibration	7.039	424850	25020	16.9805	47.2939	48.0000	98.5
CAL8_1633_052824.d	8:2FTS	13C2-8:2FTS - ISTD	Calibration	7.039	757247	23259	32.5578	90.6794	96.0000	94.5
CAL9_1633_052824.d	8:2FTS	13C2-8:2FTS - ISTD	Calibration	7.039	1284179	21979	58.4286	162.7346	192.0000	84.8
CALA_1633_052824.d	8:2FTS	13C2-8:2FTS - ISTD	Calibration	7.039	1497226	20742	72.1850	201.0487		
IBL1_1633_052824.d	8:2FTS	13C2-8:2FTS - ISTD	Sample	7.039	0	25275	0.0000	ND		
ICV_1633_052824.d	8:2FTS	13C2-8:2FTS - ISTD	QC	7.047	80037	24192	3.3083	9.2143	10.0000	92.1
BIC_1633_052824.d	8:2FTS	13C2-8:2FTS - ISTD	Sample	7.031	0	26182	0.0000	ND		

13C6-PFDA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	13C6-PFDA	13C2-PFDA	Calibration	7.253	82417	77668	1.0611	1.3326	1.2500	106.6
CAL2_1633_052824.d	13C6-PFDA	13C2-PFDA	Calibration	7.253	80576	79216	1.0172	1.2774	1.2500	102.2
CAL3_1633_052824.d	13C6-PFDA	13C2-PFDA	Calibration	7.253	64023	80608	0.7943	0.9974	1.2500	79.8

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13C6-PFDA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL4_1633_052824.d	13C6-PFDA	13C2-PFDA	Calibration	7.261	78256	82873	0.9443	1.1859	1.2500	94.9
CAL5_1633_052824.d	13C6-PFDA	13C2-PFDA	Calibration	7.253	91837	88819	1.0340	1.2985	1.2500	103.9
CAL6_1633_052824.d	13C6-PFDA	13C2-PFDA	Calibration	7.261	83741	80512	1.0401	1.3062	1.2500	104.5
CAL7_1633_052824.d	13C6-PFDA	13C2-PFDA	Calibration	7.261	82404	77941	1.0573	1.3277	1.2500	106.2
CAL8_1633_052824.d	13C6-PFDA	13C2-PFDA	Calibration	7.261	79344	76094	1.0427	1.3095	1.2500	104.8
CAL9_1633_052824.d	13C6-PFDA	13C2-PFDA	Calibration	7.261	71390	70628	1.0108	1.2694	1.2500	101.6
CALA_1633_052824.d	13C6-PFDA	13C2-PFDA	Calibration	7.261	68136	71581	0.9519	1.1954	1.2500	95.6
IBL1_1633_052824.d	13C6-PFDA	13C2-PFDA	Sample	7.269	72332	67929	1.0648	1.3372		
ICV_1633_052824.d	13C6-PFDA	13C2-PFDA	QC	7.261	71841	67273	1.0679	1.3411	1.2500	107.3
BIC_1633_052824.d	13C6-PFDA	13C2-PFDA	Sample	7.269	76828	67461	1.1389	1.4302		

PFDA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	PFDA	13C6-PFDA - ISTD	Calibration	7.262	5013	82417	0.0608	0.0777	0.1000	77.7
CAL2_1633_052824.d	PFDA	13C6-PFDA - ISTD	Calibration	7.254	11906	80576	0.1478	0.1886	0.2000	94.3
CAL3_1633_052824.d	PFDA	13C6-PFDA - ISTD	Calibration	7.254	29292	64023	0.4575	0.5841	0.5000	116.8
CAL4_1633_052824.d	PFDA	13C6-PFDA - ISTD	Calibration	7.262	75173	78256	0.9606	1.2263	1.2500	98.1
CAL5_1633_052824.d	PFDA	13C6-PFDA - ISTD	Calibration	7.262	174851	91837	1.9039	2.4305	2.5000	97.2
CAL6_1633_052824.d	PFDA	13C6-PFDA - ISTD	Calibration	7.262	329878	83741	3.9393	5.0288	5.0000	100.6
CAL7_1633_052824.d	PFDA	13C6-PFDA - ISTD	Calibration	7.262	818138	82404	9.9284	12.6745	12.5000	101.4
CAL8_1633_052824.d	PFDA	13C6-PFDA - ISTD	Calibration	7.262	1573186	79344	19.8275	25.3114	25.0000	101.2
CAL9_1633_052824.d	PFDA	13C6-PFDA - ISTD	Calibration	7.262	2970314	71390	41.6066	53.1144	50.0000	106.2
CALA_1633_052824.d	PFDA	13C6-PFDA - ISTD	Calibration	7.262	3550842	68136	52.1144	66.5284	62.5000	106.4
IBL1_1633_052824.d	PFDA	13C6-PFDA - ISTD	Sample	7.204	0	72332	0.0000	ND		
ICV_1633_052824.d	PFDA	13C6-PFDA - ISTD	QC	7.262	558098	71841	7.7685	9.9172	10.0000	99.2
BIC_1633_052824.d	PFDA	13C6-PFDA - ISTD	Sample	7.204	0	76828	0.0000	ND		

D3-NMeFOSAA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	D3-NMeFOSAA	13C4-PFOS	Calibration	7.266	171399	43132	3.9738	5.3471	5.0000	106.9
CAL2_1633_052824.d	D3-NMeFOSAA	13C4-PFOS	Calibration	7.258	165734	43567	3.8041	5.1187	5.0000	102.4
CAL3_1633_052824.d	D3-NMeFOSAA	13C4-PFOS	Calibration	7.266	136995	43403	3.1563	4.2471	5.0000	84.9
CAL4_1633_052824.d	D3-NMeFOSAA	13C4-PFOS	Calibration	7.266	169661	46288	3.6653	4.9320	5.0000	98.6
CAL5_1633_052824.d	D3-NMeFOSAA	13C4-PFOS	Calibration	7.266	190384	48446	3.9298	5.2879	5.0000	105.8
CAL6_1633_052824.d	D3-NMeFOSAA	13C4-PFOS	Calibration	7.266	169079	45419	3.7226	5.0090	5.0000	100.2
CAL7_1633_052824.d	D3-NMeFOSAA	13C4-PFOS	Calibration	7.266	165268	41840	3.9501	5.3151	5.0000	106.3
CAL8_1633_052824.d	D3-NMeFOSAA	13C4-PFOS	Calibration	7.266	155416	40838	3.8057	5.1209	5.0000	102.4
CAL9_1633_052824.d	D3-NMeFOSAA	13C4-PFOS	Calibration	7.274	136009	38277	3.5533	4.7812	5.0000	95.6
CALA_1633_052824.d	D3-NMeFOSAA	13C4-PFOS	Calibration	7.274	132251	36759	3.5978	4.8410	5.0000	96.8
IBL1_1633_052824.d	D3-NMeFOSAA	13C4-PFOS	Sample	7.274	153322	38125	4.0216	5.4113		
ICV_1633_052824.d	D3-NMeFOSAA	13C4-PFOS	QC	7.274	157569	36689	4.2947	5.7788	5.0000	115.6

D3-NMeFOSAA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
BIC_1633_052824.d	D3-NMeFOSAA	13C4-PFOS	Sample	7.274	158923	38494	4.1285	5.5552		

NMeFOSAA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	NMeFOSAA	D3-NMeFOSAA - ISTD	Calibration	7.275	1056	171399	0.0062	0.0845	0.1000	84.5
CAL2_1633_052824.d	NMeFOSAA	D3-NMeFOSAA - ISTD	Calibration	7.258	2251	165734	0.0136	0.1862	0.2000	93.1
CAL3_1633_052824.d	NMeFOSAA	D3-NMeFOSAA - ISTD	Calibration	7.266	5638	136995	0.0412	0.5642	0.5000	112.8
CAL4_1633_052824.d	NMeFOSAA	D3-NMeFOSAA - ISTD	Calibration	7.275	14953	169661	0.0881	1.2084	1.2500	96.7
CAL5_1633_052824.d	NMeFOSAA	D3-NMeFOSAA - ISTD	Calibration	7.266	31665	190384	0.1663	2.2804	2.5000	91.2
CAL6_1633_052824.d	NMeFOSAA	D3-NMeFOSAA - ISTD	Calibration	7.275	60726	169079	0.3592	4.9244	5.0000	98.5
CAL7_1633_052824.d	NMeFOSAA	D3-NMeFOSAA - ISTD	Calibration	7.275	152412	165268	0.9222	12.6444	12.5000	101.2
CAL8_1633_052824.d	NMeFOSAA	D3-NMeFOSAA - ISTD	Calibration	7.275	297279	155416	1.9128	26.2263	25.0000	104.9
CAL9_1633_052824.d	NMeFOSAA	D3-NMeFOSAA - ISTD	Calibration	7.275	542462	136009	3.9884	54.6851	50.0000	109.4
CALA_1633_052824.d	NMeFOSAA	D3-NMeFOSAA - ISTD	Calibration	7.275	649807	132251	4.9134	67.3677	62.5000	107.8
IBL1_1633_052824.d	NMeFOSAA	D3-NMeFOSAA - ISTD	Sample	7.283	0	153322	0.0000	ND		
ICV_1633_052824.d	NMeFOSAA	D3-NMeFOSAA - ISTD	QC	7.275	99412	157569	0.6309	8.6504	10.0000	86.5
BIC_1633_052824.d	NMeFOSAA	D3-NMeFOSAA - ISTD	Sample	7.283	0	158923	0.0000	ND		

D5-NEtFOSAA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	D5-NEtFOSAA	13C4-PFOS	Calibration	7.453	83440	43132	1.9345	5.1995	5.0000	104.0
CAL2_1633_052824.d	D5-NEtFOSAA	13C4-PFOS	Calibration	7.453	78257	43567	1.7962	4.8278	5.0000	96.6
CAL3_1633_052824.d	D5-NEtFOSAA	13C4-PFOS	Calibration	7.453	64174	43403	1.4786	3.9740	5.0000	79.5
CAL4_1633_052824.d	D5-NEtFOSAA	13C4-PFOS	Calibration	7.461	82610	46288	1.7847	4.7967	5.0000	95.9
CAL5_1633_052824.d	D5-NEtFOSAA	13C4-PFOS	Calibration	7.453	92585	48446	1.9111	5.1366	5.0000	102.7
CAL6_1633_052824.d	D5-NEtFOSAA	13C4-PFOS	Calibration	7.461	85287	45419	1.8778	5.0469	5.0000	100.9
CAL7_1633_052824.d	D5-NEtFOSAA	13C4-PFOS	Calibration	7.461	85452	41840	2.0424	5.4894	5.0000	109.8
CAL8_1633_052824.d	D5-NEtFOSAA	13C4-PFOS	Calibration	7.461	79331	40838	1.9426	5.2212	5.0000	104.4
CAL9_1633_052824.d	D5-NEtFOSAA	13C4-PFOS	Calibration	7.461	72757	38277	1.9008	5.1089	5.0000	102.2
CALA_1633_052824.d	D5-NEtFOSAA	13C4-PFOS	Calibration	7.453	71107	36759	1.9344	5.1991	5.0000	104.0
IBL1_1633_052824.d	D5-NEtFOSAA	13C4-PFOS	Sample	7.469	75716	38125	1.9860	5.3379		
ICV_1633_052824.d	D5-NEtFOSAA	13C4-PFOS	QC	7.461	76644	36689	2.0890	5.6147	5.0000	112.3
BIC_1633_052824.d	D5-NEtFOSAA	13C4-PFOS	Sample	7.469	78360	38494	2.0356	5.4712		

NEtFOSAA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	NEtFOSAA	D5-NEtFOSAA - ISTD	Calibration	7.461	1426	83440	0.0171	0.0808	0.1000	80.8
CAL2_1633_052824.d	NEtFOSAA	D5-NEtFOSAA - ISTD	Calibration	7.461	3441	78257	0.0440	0.2079	0.2000	104.0
CAL3_1633_052824.d	NEtFOSAA	D5-NEtFOSAA - ISTD	Calibration	7.461	7805	64174	0.1216	0.5752	0.5000	115.0
CAL4_1633_052824.d	NEtFOSAA	D5-NEtFOSAA - ISTD	Calibration	7.461	21777	82610	0.2636	1.2468	1.2500	99.7
CAL5_1633_052824.d	NEtFOSAA	D5-NEtFOSAA - ISTD	Calibration	7.461	48277	92585	0.5214	2.4661	2.5000	98.6
CAL6_1633_052824.d	NEtFOSAA	D5-NEtFOSAA - ISTD	Calibration	7.461	88560	85287	1.0384	4.9111	5.0000	98.2

NEtFOSAA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL7_1633_052824.d	NEtFOSAA	D5-NEtFOSAA - ISTD	Calibration	7.461	220659	85452	2.5822	12.2130	12.5000	97.7
CAL8_1633_052824.d	NEtFOSAA	D5-NEtFOSAA - ISTD	Calibration	7.461	427794	79331	5.3925	25.5044	25.0000	102.0
CAL9_1633_052824.d	NEtFOSAA	D5-NEtFOSAA - ISTD	Calibration	7.461	793814	72757	10.9105	51.6024	50.0000	103.2
CALA_1633_052824.d	NEtFOSAA	D5-NEtFOSAA - ISTD	Calibration	7.461	945479	71107	13.2966	62.8877	62.5000	100.6
IBL1_1633_052824.d	NEtFOSAA	D5-NEtFOSAA - ISTD	Sample	7.470	0	75716	0.0000	ND		
ICV_1633_052824.d	NEtFOSAA	D5-NEtFOSAA - ISTD	QC	7.470	143580	76644	1.8733	8.8602	10.0000	88.6
BIC_1633_052824.d	NEtFOSAA	D5-NEtFOSAA - ISTD	Sample	7.470	0	78360	0.0000	ND		

13C8-PFOS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	13C8-PFOS	13C4-PFOS	Calibration	7.492	41943	43132	0.9724	2.6218	2.5000	104.9
CAL2_1633_052824.d	13C8-PFOS	13C4-PFOS	Calibration	7.492	39767	43567	0.9128	2.4609	2.5000	98.4
CAL3_1633_052824.d	13C8-PFOS	13C4-PFOS	Calibration	7.492	33186	43403	0.7646	2.0614	2.5000	82.5
CAL4_1633_052824.d	13C8-PFOS	13C4-PFOS	Calibration	7.492	41434	46288	0.8951	2.4133	2.5000	96.5
CAL5_1633_052824.d	13C8-PFOS	13C4-PFOS	Calibration	7.492	45090	48446	0.9307	2.5094	2.5000	100.4
CAL6_1633_052824.d	13C8-PFOS	13C4-PFOS	Calibration	7.492	41829	45419	0.9210	2.4830	2.5000	99.3
CAL7_1633_052824.d	13C8-PFOS	13C4-PFOS	Calibration	7.492	41225	41840	0.9853	2.6565	2.5000	106.3
CAL8_1633_052824.d	13C8-PFOS	13C4-PFOS	Calibration	7.492	40045	40838	0.9806	2.6438	2.5000	105.8
CAL9_1633_052824.d	13C8-PFOS	13C4-PFOS	Calibration	7.492	36306	38277	0.9485	2.5573	2.5000	102.3
CALA_1633_052824.d	13C8-PFOS	13C4-PFOS	Calibration	7.492	35348	36759	0.9616	2.5926	2.5000	103.7
IBL1_1633_052824.d	13C8-PFOS	13C4-PFOS	Sample	7.500	37829	38125	0.9923	2.6752		
ICV_1633_052824.d	13C8-PFOS	13C4-PFOS	QC	7.500	38255	36689	1.0427	2.8112	2.5000	112.4
BIC_1633_052824.d	13C8-PFOS	13C4-PFOS	Sample	7.500	39337	38494	1.0219	2.7551		

PFOS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	PFOS	13C8-PFOS - ISTD	Calibration	7.493	1742	41943	0.0415	0.0857	0.0928	92.3
CAL2_1633_052824.d	PFOS	13C8-PFOS - ISTD	Calibration	7.493	3782	39767	0.0951	0.1961	0.1856	105.7
CAL3_1633_052824.d	PFOS	13C8-PFOS - ISTD	Calibration	7.493	8477	33186	0.2554	0.5269	0.4640	113.5
CAL4_1633_052824.d	PFOS	13C8-PFOS - ISTD	Calibration	7.493	21440	41434	0.5174	1.0672	1.1600	92.0
CAL5_1633_052824.d	PFOS	13C8-PFOS - ISTD	Calibration	7.493	48802	45090	1.0823	2.2323	2.3200	96.2
CAL6_1633_052824.d	PFOS	13C8-PFOS - ISTD	Calibration	7.493	91622	41829	2.1904	4.5177	4.6400	97.4
CAL7_1633_052824.d	PFOS	13C8-PFOS - ISTD	Calibration	7.493	228657	41225	5.5466	11.4401	11.6000	98.6
CAL8_1633_052824.d	PFOS	13C8-PFOS - ISTD	Calibration	7.493	443082	40045	11.0646	22.8211	23.2000	98.4
CAL9_1633_052824.d	PFOS	13C8-PFOS - ISTD	Calibration	7.493	839291	36306	23.1169	47.6794	46.4000	102.8
CALA_1633_052824.d	PFOS	13C8-PFOS - ISTD	Calibration	7.493	1025181	35348	29.0023	59.8183	58.0000	103.1
IBL1_1633_052824.d	PFOS	13C8-PFOS - ISTD	Sample	7.510	119	37829	0.0031	0.0065		
ICV_1633_052824.d	PFOS	13C8-PFOS - ISTD	QC	7.501	155178	38255	4.0564	8.3665	10.0000	83.7
BIC_1633_052824.d	PFOS	13C8-PFOS - ISTD	Sample	7.501	475	39337	0.0121	0.0249		

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13C7-PFUnA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	13C7-PFUnA	13C2-PFDA	Calibration	7.701	76268	77668	0.9820	1.3191	1.2500	105.5
CAL2_1633_052824.d	13C7-PFUnA	13C2-PFDA	Calibration	7.701	73369	79216	0.9262	1.2441	1.2500	99.5
CAL3_1633_052824.d	13C7-PFUnA	13C2-PFDA	Calibration	7.701	61671	80608	0.7651	1.0277	1.2500	82.2
CAL4_1633_052824.d	13C7-PFUnA	13C2-PFDA	Calibration	7.701	74875	82873	0.9035	1.2136	1.2500	97.1
CAL5_1633_052824.d	13C7-PFUnA	13C2-PFDA	Calibration	7.701	84109	88819	0.9470	1.2720	1.2500	101.8
CAL6_1633_052824.d	13C7-PFUnA	13C2-PFDA	Calibration	7.701	78016	80512	0.9690	1.3016	1.2500	104.1
CAL7_1633_052824.d	13C7-PFUnA	13C2-PFDA	Calibration	7.701	78197	77941	1.0033	1.3477	1.2500	107.8
CAL8_1633_052824.d	13C7-PFUnA	13C2-PFDA	Calibration	7.701	74063	76094	0.9733	1.3074	1.2500	104.6
CAL9_1633_052824.d	13C7-PFUnA	13C2-PFDA	Calibration	7.709	66834	70628	0.9463	1.2711	1.2500	101.7
CALA_1633_052824.d	13C7-PFUnA	13C2-PFDA	Calibration	7.701	63716	71581	0.8901	1.1957	1.2500	95.7
IBL1_1633_052824.d	13C7-PFUnA	13C2-PFDA	Sample	7.709	71291	67929	1.0495	1.4097		
ICV_1633_052824.d	13C7-PFUnA	13C2-PFDA	QC	7.709	70895	67273	1.0538	1.4156	1.2500	113.2
BIC_1633_052824.d	13C7-PFUnA	13C2-PFDA	Sample	7.717	72419	67461	1.0735	1.4420		

PFUnA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	PFUnA	13C7-PFUnA - ISTD	Calibration	7.702	4883	76268	0.0640	0.0826	0.1000	82.6
CAL2_1633_052824.d	PFUnA	13C7-PFUnA - ISTD	Calibration	7.702	11248	73369	0.1533	0.1977	0.2000	98.9
CAL3_1633_052824.d	PFUnA	13C7-PFUnA - ISTD	Calibration	7.702	26959	61671	0.4371	0.5638	0.5000	112.8
CAL4_1633_052824.d	PFUnA	13C7-PFUnA - ISTD	Calibration	7.702	69629	74875	0.9299	1.1994	1.2500	96.0
CAL5_1633_052824.d	PFUnA	13C7-PFUnA - ISTD	Calibration	7.702	161857	84109	1.9244	2.4820	2.5000	99.3
CAL6_1633_052824.d	PFUnA	13C7-PFUnA - ISTD	Calibration	7.702	298870	78016	3.8309	4.9409	5.0000	98.8
CAL7_1633_052824.d	PFUnA	13C7-PFUnA - ISTD	Calibration	7.702	731167	78197	9.3503	12.0597	12.5000	96.5
CAL8_1633_052824.d	PFUnA	13C7-PFUnA - ISTD	Calibration	7.702	1436588	74063	19.3967	25.0172	25.0000	100.1
CAL9_1633_052824.d	PFUnA	13C7-PFUnA - ISTD	Calibration	7.702	2755847	66834	41.2340	53.1821	50.0000	106.4
CALA_1633_052824.d	PFUnA	13C7-PFUnA - ISTD	Calibration	7.702	3360577	63716	52.7427	68.0256	62.5000	108.8
IBL1_1633_052824.d	PFUnA	13C7-PFUnA - ISTD	Sample	7.710	0	71291	0.0000	ND		
ICV_1633_052824.d	PFUnA	13C7-PFUnA - ISTD	QC	7.710	469753	70895	6.6261	8.5460	10.0000	85.5
BIC_1633_052824.d	PFUnA	13C7-PFUnA - ISTD	Sample	7.710	0	72419	0.0000	ND		

9Cl-PF3ONS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	9Cl-PF3ONS	13C3-HFPODA - ISTD	Calibration	7.843	33604	201345	0.1669	0.2940	0.3740	78.6
CAL2_1633_052824.d	9Cl-PF3ONS	13C3-HFPODA - ISTD	Calibration	7.835	82859	191638	0.4324	0.7617	0.7480	101.8
CAL3_1633_052824.d	9Cl-PF3ONS	13C3-HFPODA - ISTD	Calibration	7.835	193747	155330	1.2473	2.1974	1.8700	117.5
CAL4_1633_052824.d	9Cl-PF3ONS	13C3-HFPODA - ISTD	Calibration	7.843	503645	188400	2.6733	4.7096	4.6750	100.7
CAL5_1633_052824.d	9Cl-PF3ONS	13C3-HFPODA - ISTD	Calibration	7.843	1014338	205495	4.9361	8.6960	9.3500	93.0
CAL6_1633_052824.d	9Cl-PF3ONS	13C3-HFPODA - ISTD	Calibration	7.843	2037394	192432	10.5876	18.6525	18.7000	99.8
CAL7_1633_052824.d	9Cl-PF3ONS	13C3-HFPODA - ISTD	Calibration	7.843	4903639	193918	25.2872	44.5491	46.7500	95.3
CAL8_1633_052824.d	9Cl-PF3ONS	13C3-HFPODA - ISTD	Calibration	7.843	9134088	167915	54.3972	95.8330	93.5000	102.5
CAL9_1633_052824.d	9Cl-PF3ONS	13C3-HFPODA - ISTD	Calibration	7.843	17126767	156974	109.1056	192.2143	187.0000	102.8

9Cl-PF3ONS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CALA_1633_052824.d	9Cl-PF3ONS	13C3-HFPODA - ISTD	Calibration	7.843	20608822	143858	143.2585	252.3823	233.7500	108.0
IBL1_1633_052824.d	9Cl-PF3ONS	13C3-HFPODA - ISTD	Sample	7.859	0	163956	0.0000	ND		
ICV_1633_052824.d	9Cl-PF3ONS	13C3-HFPODA - ISTD	QC	7.851	883305	168936	5.2286	9.2114	10.0000	92.1
BIC_1633_052824.d	9Cl-PF3ONS	13C3-HFPODA - ISTD	Sample	7.851	0	163265	0.0000	ND		

PFNS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	PFNS	13C8-PFOS - ISTD	Calibration	7.959	1450	41943	0.0346	0.0803	0.0962	83.4
CAL2_1633_052824.d	PFNS	13C8-PFOS - ISTD	Calibration	7.951	3355	39767	0.0844	0.1959	0.1924	101.8
CAL3_1633_052824.d	PFNS	13C8-PFOS - ISTD	Calibration	7.951	8015	33186	0.2415	0.5607	0.4810	116.6
CAL4_1633_052824.d	PFNS	13C8-PFOS - ISTD	Calibration	7.959	20480	41434	0.4943	1.1476	1.2030	95.4
CAL5_1633_052824.d	PFNS	13C8-PFOS - ISTD	Calibration	7.959	46243	45090	1.0256	2.3812	2.4050	99.0
CAL6_1633_052824.d	PFNS	13C8-PFOS - ISTD	Calibration	7.959	86731	41829	2.0735	4.8142	4.8100	100.1
CAL7_1633_052824.d	PFNS	13C8-PFOS - ISTD	Calibration	7.959	216027	41225	5.2402	12.1669	12.0250	101.2
CAL8_1633_052824.d	PFNS	13C8-PFOS - ISTD	Calibration	7.959	416843	40045	10.4093	24.1687	24.0500	100.5
CAL9_1633_052824.d	PFNS	13C8-PFOS - ISTD	Calibration	7.959	767428	36306	21.1375	49.0778	48.1000	102.0
CALA_1633_052824.d	PFNS	13C8-PFOS - ISTD	Calibration	7.959	915139	35348	25.8892	60.1104	60.1250	100.0
IBL1_1633_052824.d	PFNS	13C8-PFOS - ISTD	Sample	7.967	0	37829	0.0000	ND		
ICV_1633_052824.d	PFNS	13C8-PFOS - ISTD	QC	7.967	154938	38255	4.0501	9.4037	10.0000	94.0
BIC_1633_052824.d	PFNS	13C8-PFOS - ISTD	Sample	7.984	0	39337	0.0000	ND		

13C2-PFDoA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	13C2-PFDoA	13C2-PFDA	Calibration	8.136	76060	77668	0.9793	1.2745	1.2500	102.0
CAL2_1633_052824.d	13C2-PFDoA	13C2-PFDA	Calibration	8.136	72570	79216	0.9161	1.1923	1.2500	95.4
CAL3_1633_052824.d	13C2-PFDoA	13C2-PFDA	Calibration	8.136	61625	80608	0.7645	0.9950	1.2500	79.6
CAL4_1633_052824.d	13C2-PFDoA	13C2-PFDA	Calibration	8.136	77481	82873	0.9349	1.2168	1.2500	97.3
CAL5_1633_052824.d	13C2-PFDoA	13C2-PFDA	Calibration	8.136	89080	88819	1.0029	1.3053	1.2500	104.4
CAL6_1633_052824.d	13C2-PFDoA	13C2-PFDA	Calibration	8.145	78815	80512	0.9789	1.2740	1.2500	101.9
CAL7_1633_052824.d	13C2-PFDoA	13C2-PFDA	Calibration	8.136	78921	77941	1.0126	1.3178	1.2500	105.4
CAL8_1633_052824.d	13C2-PFDoA	13C2-PFDA	Calibration	8.136	76182	76094	1.0012	1.3030	1.2500	104.2
CAL9_1633_052824.d	13C2-PFDoA	13C2-PFDA	Calibration	8.145	71751	70628	1.0159	1.3221	1.2500	105.8
CALA_1633_052824.d	13C2-PFDoA	13C2-PFDA	Calibration	8.145	71460	71581	0.9983	1.2992	1.2500	103.9
IBL1_1633_052824.d	13C2-PFDoA	13C2-PFDA	Sample	8.153	71270	67929	1.0492	1.3655		
ICV_1633_052824.d	13C2-PFDoA	13C2-PFDA	QC	8.153	72134	67273	1.0723	1.3955	1.2500	111.6
BIC_1633_052824.d	13C2-PFDoA	13C2-PFDA	Sample	8.153	71304	67461	1.0570	1.3756		

PFDoA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	PFDoA	13C2-PFDoA - ISTD	Calibration	8.137	5053	76060	0.0664	0.0827	0.1000	82.7
CAL2_1633_052824.d	PFDoA	13C2-PFDoA - ISTD	Calibration	8.137	11455	72570	0.1578	0.1966	0.2000	98.3
CAL3_1633_052824.d	PFDoA	13C2-PFDoA - ISTD	Calibration	8.137	29415	61625	0.4773	0.5944	0.5000	118.9

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PFDoA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL4_1633_052824.d	PFDoA	13C2-PFDoA - ISTD	Calibration	8.137	75866	77481	0.9792	1.2194	1.2500	97.6
CAL5_1633_052824.d	PFDoA	13C2-PFDoA - ISTD	Calibration	8.137	172127	89080	1.9323	2.4064	2.5000	96.3
CAL6_1633_052824.d	PFDoA	13C2-PFDoA - ISTD	Calibration	8.145	316719	78815	4.0185	5.0045	5.0000	100.1
CAL7_1633_052824.d	PFDoA	13C2-PFDoA - ISTD	Calibration	8.145	809709	78921	10.2597	12.7771	12.5000	102.2
CAL8_1633_052824.d	PFDoA	13C2-PFDoA - ISTD	Calibration	8.145	1541635	76182	20.2361	25.2014	25.0000	100.8
CAL9_1633_052824.d	PFDoA	13C2-PFDoA - ISTD	Calibration	8.145	2966667	71751	41.3469	51.4919	50.0000	103.0
CALA_1633_052824.d	PFDoA	13C2-PFDoA - ISTD	Calibration	8.145	3592880	71460	50.2783	62.6148	62.5000	100.2
IBL1_1633_052824.d	PFDoA	13C2-PFDoA - ISTD	Sample	8.153	0	71270	0.0000	ND		
ICV_1633_052824.d	PFDoA	13C2-PFDoA - ISTD	QC	8.153	475436	72134	6.5910	8.2082	10.0000	82.1
BIC_1633_052824.d	PFDoA	13C2-PFDoA - ISTD	Sample	8.162	0	71304	0.0000	ND		

PFDS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	PFDS	13C8-PFOS - ISTD	Calibration	8.403	1217	41943	0.0290	0.0830	0.0965	86.0
CAL2_1633_052824.d	PFDS	13C8-PFOS - ISTD	Calibration	8.403	2799	39767	0.0704	0.2012	0.1930	104.3
CAL3_1633_052824.d	PFDS	13C8-PFOS - ISTD	Calibration	8.403	6628	33186	0.1997	0.5709	0.4825	118.3
CAL4_1633_052824.d	PFDS	13C8-PFOS - ISTD	Calibration	8.403	16689	41434	0.4028	1.1515	1.2060	95.5
CAL5_1633_052824.d	PFDS	13C8-PFOS - ISTD	Calibration	8.403	37710	45090	0.8363	2.3908	2.4130	99.1
CAL6_1633_052824.d	PFDS	13C8-PFOS - ISTD	Calibration	8.403	69596	41829	1.6638	4.7563	4.8250	98.6
CAL7_1633_052824.d	PFDS	13C8-PFOS - ISTD	Calibration	8.403	173800	41225	4.2159	12.0520	12.0630	99.9
CAL8_1633_052824.d	PFDS	13C8-PFOS - ISTD	Calibration	8.403	333602	40045	8.3306	23.8146	24.1250	98.7
CAL9_1633_052824.d	PFDS	13C8-PFOS - ISTD	Calibration	8.403	613544	36306	16.8991	48.3089	48.2500	100.1
CALA_1633_052824.d	PFDS	13C8-PFOS - ISTD	Calibration	8.403	742558	35348	21.0069	60.0519	60.3130	99.6
IBL1_1633_052824.d	PFDS	13C8-PFOS - ISTD	Sample	8.436	0	37829	0.0000	ND		
ICV_1633_052824.d	PFDS	13C8-PFOS - ISTD	QC	8.411	120682	38255	3.1547	9.0182	10.0000	90.2
BIC_1633_052824.d	PFDS	13C8-PFOS - ISTD	Sample	8.428	0	39337	0.0000	ND		

PFTrDA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	PFTrDA	13C2-PFDoA - ISTD	Calibration	8.557	5479	76060	0.0720	0.0866	0.1000	86.6
CAL2_1633_052824.d	PFTrDA	13C2-PFDoA - ISTD	Calibration	8.565	11648	72570	0.1605	0.1931	0.2000	96.5
CAL3_1633_052824.d	PFTrDA	13C2-PFDoA - ISTD	Calibration	8.557	30553	61625	0.4958	0.5963	0.5000	119.3
CAL4_1633_052824.d	PFTrDA	13C2-PFDoA - ISTD	Calibration	8.565	76439	77481	0.9866	1.1866	1.2500	94.9
CAL5_1633_052824.d	PFTrDA	13C2-PFDoA - ISTD	Calibration	8.565	178509	89080	2.0039	2.4103	2.5000	96.4
CAL6_1633_052824.d	PFTrDA	13C2-PFDoA - ISTD	Calibration	8.565	328703	78815	4.1705	5.0164	5.0000	100.3
CAL7_1633_052824.d	PFTrDA	13C2-PFDoA - ISTD	Calibration	8.565	807274	78921	10.2289	12.3034	12.5000	98.4
CAL8_1633_052824.d	PFTrDA	13C2-PFDoA - ISTD	Calibration	8.557	1598737	76182	20.9857	25.2417	25.0000	101.0
CAL9_1633_052824.d	PFTrDA	13C2-PFDoA - ISTD	Calibration	8.565	3122058	71751	43.5126	52.3372	50.0000	104.7
CALA_1633_052824.d	PFTrDA	13C2-PFDoA - ISTD	Calibration	8.565	3780815	71460	52.9082	63.6383	62.5000	101.8
IBL1_1633_052824.d	PFTrDA	13C2-PFDoA - ISTD	Sample	8.573	0	71270	0.0000	ND		
ICV_1633_052824.d	PFTrDA	13C2-PFDoA - ISTD	QC	8.573	487734	72134	6.7615	8.1327	10.0000	81.3

PFTrDA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
BIC_1633_052824.d	PFTrDA	13C2-PFDoA - ISTD	Sample	8.573	0	71304	0.0000	ND		

13C8-PFOSA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	13C8-PFOSA	13C4-PFOS	Calibration	8.701	77853	43132	1.8050	2.6931	2.5000	107.7
CAL2_1633_052824.d	13C8-PFOSA	13C4-PFOS	Calibration	8.701	72197	43567	1.6571	2.4725	2.5000	98.9
CAL3_1633_052824.d	13C8-PFOSA	13C4-PFOS	Calibration	8.701	60503	43403	1.3940	2.0799	2.5000	83.2
CAL4_1633_052824.d	13C8-PFOSA	13C4-PFOS	Calibration	8.701	74876	46288	1.6176	2.4135	2.5000	96.5
CAL5_1633_052824.d	13C8-PFOSA	13C4-PFOS	Calibration	8.701	81434	48446	1.6809	2.5080	2.5000	100.3
CAL6_1633_052824.d	13C8-PFOSA	13C4-PFOS	Calibration	8.701	76262	45419	1.6791	2.5052	2.5000	100.2
CAL7_1633_052824.d	13C8-PFOSA	13C4-PFOS	Calibration	8.701	75753	41840	1.8106	2.7014	2.5000	108.1
CAL8_1633_052824.d	13C8-PFOSA	13C4-PFOS	Calibration	8.701	70765	40838	1.7328	2.5855	2.5000	103.4
CAL9_1633_052824.d	13C8-PFOSA	13C4-PFOS	Calibration	8.701	63822	38277	1.6674	2.4878	2.5000	99.5
CALA_1633_052824.d	13C8-PFOSA	13C4-PFOS	Calibration	8.701	62897	36759	1.7111	2.5530	2.5000	102.1
IBL1_1633_052824.d	13C8-PFOSA	13C4-PFOS	Sample	8.709	68617	38125	1.7998	2.6854		
ICV_1633_052824.d	13C8-PFOSA	13C4-PFOS	QC	8.709	71439	36689	1.9471	2.9052	2.5000	116.2
BIC_1633_052824.d	13C8-PFOSA	13C4-PFOS	Sample	8.709	71412	38494	1.8551	2.7680		

PFOSA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	PFOSA	13C8-PFOSA - ISTD	Calibration	8.702	2844	77853	0.0365	0.0848	0.1000	84.8
CAL2_1633_052824.d	PFOSA	13C8-PFOSA - ISTD	Calibration	8.702	6256	72197	0.0867	0.2012	0.2000	100.6
CAL3_1633_052824.d	PFOSA	13C8-PFOSA - ISTD	Calibration	8.702	15088	60503	0.2494	0.5789	0.5000	115.8
CAL4_1633_052824.d	PFOSA	13C8-PFOSA - ISTD	Calibration	8.702	38548	74876	0.5148	1.1951	1.2500	95.6
CAL5_1633_052824.d	PFOSA	13C8-PFOSA - ISTD	Calibration	8.702	85555	81434	1.0506	2.4389	2.5000	97.6
CAL6_1633_052824.d	PFOSA	13C8-PFOSA - ISTD	Calibration	8.702	164620	76262	2.1586	5.0110	5.0000	100.2
CAL7_1633_052824.d	PFOSA	13C8-PFOSA - ISTD	Calibration	8.702	406492	75753	5.3660	12.4567	12.5000	99.7
CAL8_1633_052824.d	PFOSA	13C8-PFOSA - ISTD	Calibration	8.702	762039	70765	10.7686	24.9983	25.0000	100.0
CAL9_1633_052824.d	PFOSA	13C8-PFOSA - ISTD	Calibration	8.702	1423331	63822	22.3016	51.7709	50.0000	103.5
CALA_1633_052824.d	PFOSA	13C8-PFOSA - ISTD	Calibration	8.702	1731669	62897	27.5317	63.9119	62.5000	102.3
IBL1_1633_052824.d	PFOSA	13C8-PFOSA - ISTD	Sample	8.702	0	68617	0.0000	ND		
ICV_1633_052824.d	PFOSA	13C8-PFOSA - ISTD	QC	8.710	269954	71439	3.7788	8.7721	10.0000	87.7
BIC_1633_052824.d	PFOSA	13C8-PFOSA - ISTD	Sample	8.710	394919	71412	5.5301	12.8376		

11Cl-PF3OUdS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	11Cl-PF3OUdS	13C3-HFPODA - ISTD	Calibration	8.724	21742	201345	0.1080	0.2856	0.3780	75.5
CAL2_1633_052824.d	11Cl-PF3OUdS	13C3-HFPODA - ISTD	Calibration	8.724	55629	191638	0.2903	0.7676	0.7560	101.5
CAL3_1633_052824.d	11Cl-PF3OUdS	13C3-HFPODA - ISTD	Calibration	8.724	133562	155330	0.8599	2.2739	1.8900	120.3
CAL4_1633_052824.d	11Cl-PF3OUdS	13C3-HFPODA - ISTD	Calibration	8.724	339190	188400	1.8004	4.7610	4.7250	100.8
CAL5_1633_052824.d	11Cl-PF3OUdS	13C3-HFPODA - ISTD	Calibration	8.724	690360	205495	3.3595	8.8840	9.4500	94.0
CAL6_1633_052824.d	11Cl-PF3OUdS	13C3-HFPODA - ISTD	Calibration	8.724	1377091	192432	7.1563	18.9244	18.9000	100.1

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11Cl-PF3OUdS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL7_1633_052824.d	11Cl-PF3OUdS	13C3-HFPODA - ISTD	Calibration	8.724	3299454	193918	17.0147	44.9946	47.2500	95.2
CAL8_1633_052824.d	11Cl-PF3OUdS	13C3-HFPODA - ISTD	Calibration	8.724	6181458	167915	36.8131	97.3506	94.5000	103.0
CAL9_1633_052824.d	11Cl-PF3OUdS	13C3-HFPODA - ISTD	Calibration	8.724	11481486	156974	73.1425	193.4221	189.0000	102.3
CALA_1633_052824.d	11Cl-PF3OUdS	13C3-HFPODA - ISTD	Calibration	8.724	13767147	143858	95.6998	253.0739	236.2500	107.1
IBL1_1633_052824.d	11Cl-PF3OUdS	13C3-HFPODA - ISTD	Sample	8.732	546	163956	0.0033	0.0088		
ICV_1633_052824.d	11Cl-PF3OUdS	13C3-HFPODA - ISTD	QC	8.732	595791	168936	3.5267	9.3263	10.0000	93.3
BIC_1633_052824.d	11Cl-PF3OUdS	13C3-HFPODA - ISTD	Sample	8.732	0	163265	0.0000	ND		

13C2-PFTeDA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	13C2-PFTeDA	13C2-PFDA	Calibration	8.950	104958	77668	1.3514	1.3043	1.2500	104.3
CAL2_1633_052824.d	13C2-PFTeDA	13C2-PFDA	Calibration	8.950	101377	79216	1.2797	1.2351	1.2500	98.8
CAL3_1633_052824.d	13C2-PFTeDA	13C2-PFDA	Calibration	8.950	81613	80608	1.0125	0.9772	1.2500	78.2
CAL4_1633_052824.d	13C2-PFTeDA	13C2-PFDA	Calibration	8.950	100189	82873	1.2090	1.1668	1.2500	93.3
CAL5_1633_052824.d	13C2-PFTeDA	13C2-PFDA	Calibration	8.950	121002	88819	1.3623	1.3149	1.2500	105.2
CAL6_1633_052824.d	13C2-PFTeDA	13C2-PFDA	Calibration	8.950	104528	80512	1.2983	1.2530	1.2500	100.2
CAL7_1633_052824.d	13C2-PFTeDA	13C2-PFDA	Calibration	8.958	105409	77941	1.3524	1.3053	1.2500	104.4
CAL8_1633_052824.d	13C2-PFTeDA	13C2-PFDA	Calibration	8.950	102137	76094	1.3422	1.2955	1.2500	103.6
CAL9_1633_052824.d	13C2-PFTeDA	13C2-PFDA	Calibration	8.958	96948	70628	1.3727	1.3248	1.2500	106.0
CALA_1633_052824.d	13C2-PFTeDA	13C2-PFDA	Calibration	8.958	98138	71581	1.3710	1.3232	1.2500	105.9
IBL1_1633_052824.d	13C2-PFTeDA	13C2-PFDA	Sample	8.967	90917	67929	1.3384	1.2917		
ICV_1633_052824.d	13C2-PFTeDA	13C2-PFDA	QC	8.958	93371	67273	1.3880	1.3396	1.2500	107.2
BIC_1633_052824.d	13C2-PFTeDA	13C2-PFDA	Sample	8.958	89794	67461	1.3311	1.2847		

PFTeDA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	PFTeDA	13C2-PFTeDA - ISTD	Calibration	8.951	6957	104958	0.0663	0.0856	0.1000	85.6
CAL2_1633_052824.d	PFTeDA	13C2-PFTeDA - ISTD	Calibration	8.951	14873	101377	0.1467	0.1895	0.2000	94.7
CAL3_1633_052824.d	PFTeDA	13C2-PFTeDA - ISTD	Calibration	8.951	37384	81613	0.4581	0.5916	0.5000	118.3
CAL4_1633_052824.d	PFTeDA	13C2-PFTeDA - ISTD	Calibration	8.951	96176	100189	0.9599	1.2398	1.2500	99.2
CAL5_1633_052824.d	PFTeDA	13C2-PFTeDA - ISTD	Calibration	8.951	231081	121002	1.9097	2.4665	2.5000	98.7
CAL6_1633_052824.d	PFTeDA	13C2-PFTeDA - ISTD	Calibration	8.951	408891	104528	3.9118	5.0523	5.0000	101.0
CAL7_1633_052824.d	PFTeDA	13C2-PFTeDA - ISTD	Calibration	8.951	1028699	105409	9.7591	12.6044	12.5000	100.8
CAL8_1633_052824.d	PFTeDA	13C2-PFTeDA - ISTD	Calibration	8.951	2001456	102137	19.5959	25.3091	25.0000	101.2
CAL9_1633_052824.d	PFTeDA	13C2-PFTeDA - ISTD	Calibration	8.951	3833168	96948	39.5383	51.0659	50.0000	102.1
CALA_1633_052824.d	PFTeDA	13C2-PFTeDA - ISTD	Calibration	8.959	4664893	98138	47.5340	61.3928	62.5000	98.2
IBL1_1633_052824.d	PFTeDA	13C2-PFTeDA - ISTD	Sample	8.967	1383	90917	0.0152	0.0196		
ICV_1633_052824.d	PFTeDA	13C2-PFTeDA - ISTD	QC	8.967	706955	93371	7.5715	9.7790	10.0000	97.8
BIC_1633_052824.d	PFTeDA	13C2-PFTeDA - ISTD	Sample	8.959	0	89794	0.0000	ND		

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PFDoS

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	PFDoS	13C8-PFOS - ISTD	Calibration	9.189	840	41943	0.0200	0.0820	0.0970	84.6
CAL2_1633_052824.d	PFDoS	13C8-PFOS - ISTD	Calibration	9.189	1859	39767	0.0467	0.1916	0.1940	98.7
CAL3_1633_052824.d	PFDoS	13C8-PFOS - ISTD	Calibration	9.189	4800	33186	0.1446	0.5927	0.4850	122.2
CAL4_1633_052824.d	PFDoS	13C8-PFOS - ISTD	Calibration	9.189	11670	41434	0.2817	1.1542	1.2130	95.2
CAL5_1633_052824.d	PFDoS	13C8-PFOS - ISTD	Calibration	9.189	26602	45090	0.5900	2.4176	2.4250	99.7
CAL6_1633_052824.d	PFDoS	13C8-PFOS - ISTD	Calibration	9.189	49708	41829	1.1883	4.8697	4.8500	100.4
CAL7_1633_052824.d	PFDoS	13C8-PFOS - ISTD	Calibration	9.189	123394	41225	2.9932	12.2657	12.1250	101.2
CAL8_1633_052824.d	PFDoS	13C8-PFOS - ISTD	Calibration	9.189	233289	40045	5.8256	23.8726	24.2500	98.4
CAL9_1633_052824.d	PFDoS	13C8-PFOS - ISTD	Calibration	9.189	425328	36306	11.7149	48.0061	48.5000	99.0
CALA_1633_052824.d	PFDoS	13C8-PFOS - ISTD	Calibration	9.197	526322	35348	14.8896	61.0154	60.6250	100.6
IBL1_1633_052824.d	PFDoS	13C8-PFOS - ISTD	Sample	9.189	0	37829	0.0000	ND		
ICV_1633_052824.d	PFDoS	13C8-PFOS - ISTD	QC	9.197	83166	38255	2.1740	8.9087	10.0000	89.1
BIC_1633_052824.d	PFDoS	13C8-PFOS - ISTD	Sample	9.197	0	39337	0.0000	ND		

D7-NMeFOSE

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	D7-NMeFOSE	13C4-PFOS	Calibration	9.881	224028	43132	5.1940	25.6348	25.0000	102.5
CAL2_1633_052824.d	D7-NMeFOSE	13C4-PFOS	Calibration	9.890	207109	43567	4.7538	23.4619	25.0000	93.8
CAL3_1633_052824.d	D7-NMeFOSE	13C4-PFOS	Calibration	9.881	175662	43403	4.0472	19.9748	25.0000	79.9
CAL4_1633_052824.d	D7-NMeFOSE	13C4-PFOS	Calibration	9.881	217469	46288	4.6982	23.1875	25.0000	92.7
CAL5_1633_052824.d	D7-NMeFOSE	13C4-PFOS	Calibration	9.881	249512	48446	5.1503	25.4192	25.0000	101.7
CAL6_1633_052824.d	D7-NMeFOSE	13C4-PFOS	Calibration	9.881	232075	45419	5.1096	25.2182	25.0000	100.9
CAL7_1633_052824.d	D7-NMeFOSE	13C4-PFOS	Calibration	9.881	228536	41840	5.4622	26.9584	25.0000	107.8
CAL8_1633_052824.d	D7-NMeFOSE	13C4-PFOS	Calibration	9.881	218331	40838	5.3463	26.3865	25.0000	105.5
CAL9_1633_052824.d	D7-NMeFOSE	13C4-PFOS	Calibration	9.881	206467	38277	5.3941	26.6221	25.0000	106.5
CALA_1633_052824.d	D7-NMeFOSE	13C4-PFOS	Calibration	9.881	202114	36759	5.4983	27.1366	25.0000	108.5
IBL1_1633_052824.d	D7-NMeFOSE	13C4-PFOS	Sample	9.890	211570	38125	5.5494	27.3889		
ICV_1633_052824.d	D7-NMeFOSE	13C4-PFOS	QC	9.890	211804	36689	5.7729	28.4919	25.0000	114.0
BIC_1633_052824.d	D7-NMeFOSE	13C4-PFOS	Sample	9.890	217873	38494	5.6599	27.9341		

NMeFOSE

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	NMeFOSE	D7-NMeFOSE - ISTD	Calibration	9.899	8962	224028	0.0400	0.8931	1.0000	89.3
CAL2_1633_052824.d	NMeFOSE	D7-NMeFOSE - ISTD	Calibration	9.907	18050	207109	0.0872	1.9455	2.0000	97.3
CAL3_1633_052824.d	NMeFOSE	D7-NMeFOSE - ISTD	Calibration	9.899	47835	175662	0.2723	6.0790	5.0000	121.6
CAL4_1633_052824.d	NMeFOSE	D7-NMeFOSE - ISTD	Calibration	9.899	116878	217469	0.5374	11.9977	12.5000	96.0
CAL5_1633_052824.d	NMeFOSE	D7-NMeFOSE - ISTD	Calibration	9.907	280203	249512	1.1230	25.0693	25.0000	100.3
CAL6_1633_052824.d	NMeFOSE	D7-NMeFOSE - ISTD	Calibration	9.907	518057	232075	2.2323	49.8322	50.0000	99.7
CAL7_1633_052824.d	NMeFOSE	D7-NMeFOSE - ISTD	Calibration	9.907	1274201	228536	5.5755	124.4642	125.0000	99.6
CAL8_1633_052824.d	NMeFOSE	D7-NMeFOSE - ISTD	Calibration	9.899	2406139	218331	11.0206	246.0178	250.0000	98.4
CAL9_1633_052824.d	NMeFOSE	D7-NMeFOSE - ISTD	Calibration	9.907	4574287	206467	22.1550	494.5765	500.0000	98.9

NMeFOSE

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CALA_1633_052824.d	NMeFOSE	D7-NMeFOSE - ISTD	Calibration	9.907	5603239	202114	27.7231	618.8753	625.0000	99.0
IBL1_1633_052824.d	NMeFOSE	D7-NMeFOSE - ISTD	Sample	9.915	1049	211570	0.0050	0.1107		
ICV_1633_052824.d	NMeFOSE	D7-NMeFOSE - ISTD	QC	9.915	87383	211804	0.4126	9.2099	10.0000	92.1
BIC_1633_052824.d	NMeFOSE	D7-NMeFOSE - ISTD	Sample	9.915	74093	217873	0.3401	7.5916		

D3-NMeFOSA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	D3-NMeFOSA	13C4-PFOS	Calibration	10.034	23903	43132	0.5542	2.5311	2.5000	101.2
CAL2_1633_052824.d	D3-NMeFOSA	13C4-PFOS	Calibration	10.043	21224	43567	0.4872	2.2250	2.5000	89.0
CAL3_1633_052824.d	D3-NMeFOSA	13C4-PFOS	Calibration	10.034	18519	43403	0.4267	1.9488	2.5000	78.0
CAL4_1633_052824.d	D3-NMeFOSA	13C4-PFOS	Calibration	10.034	22891	46288	0.4945	2.2587	2.5000	90.3
CAL5_1633_052824.d	D3-NMeFOSA	13C4-PFOS	Calibration	10.043	26193	48446	0.5407	2.4694	2.5000	98.8
CAL6_1633_052824.d	D3-NMeFOSA	13C4-PFOS	Calibration	10.043	24194	45419	0.5327	2.4329	2.5000	97.3
CAL7_1633_052824.d	D3-NMeFOSA	13C4-PFOS	Calibration	10.043	24678	41840	0.5898	2.6940	2.5000	107.8
CAL8_1633_052824.d	D3-NMeFOSA	13C4-PFOS	Calibration	10.043	23080	40838	0.5652	2.5813	2.5000	103.3
CAL9_1633_052824.d	D3-NMeFOSA	13C4-PFOS	Calibration	10.043	23562	38277	0.6156	2.8115	2.5000	112.5
CALA_1633_052824.d	D3-NMeFOSA	13C4-PFOS	Calibration	10.043	24526	36759	0.6672	3.0473	2.5000	121.9
IBL1_1633_052824.d	D3-NMeFOSA	13C4-PFOS	Sample	10.051	21007	38125	0.5510	2.5166		
ICV_1633_052824.d	D3-NMeFOSA	13C4-PFOS	QC	10.051	22137	36689	0.6034	2.7557	2.5000	110.2
BIC_1633_052824.d	D3-NMeFOSA	13C4-PFOS	Sample	10.051	21859	38494	0.5679	2.5936		

NMeFOSA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	NMeFOSA	D3-NMeFOSA - ISTD	Calibration	10.044	1062	23903	0.0444	0.0946	0.1000	94.6
CAL2_1633_052824.d	NMeFOSA	D3-NMeFOSA - ISTD	Calibration	10.053	1977	21224	0.0932	0.1985	0.2000	99.2
CAL3_1633_052824.d	NMeFOSA	D3-NMeFOSA - ISTD	Calibration	10.044	5034	18519	0.2718	0.5792	0.5000	115.8
CAL4_1633_052824.d	NMeFOSA	D3-NMeFOSA - ISTD	Calibration	10.044	13207	22891	0.5770	1.2293	1.2500	98.3
CAL5_1633_052824.d	NMeFOSA	D3-NMeFOSA - ISTD	Calibration	10.044	29584	26193	1.1295	2.4065	2.5000	96.3
CAL6_1633_052824.d	NMeFOSA	D3-NMeFOSA - ISTD	Calibration	10.044	56584	24194	2.3388	4.9830	5.0000	99.7
CAL7_1633_052824.d	NMeFOSA	D3-NMeFOSA - ISTD	Calibration	10.044	143867	24678	5.8297	12.4208	12.5000	99.4
CAL8_1633_052824.d	NMeFOSA	D3-NMeFOSA - ISTD	Calibration	10.044	272100	23080	11.7892	25.1182	25.0000	100.5
CAL9_1633_052824.d	NMeFOSA	D3-NMeFOSA - ISTD	Calibration	10.044	558563	23562	23.7060	50.5080	50.0000	101.0
CALA_1633_052824.d	NMeFOSA	D3-NMeFOSA - ISTD	Calibration	10.044	684753	24526	27.9200	59.4866	62.5000	95.2
IBL1_1633_052824.d	NMeFOSA	D3-NMeFOSA - ISTD	Sample	10.053	0	21007	0.0000	ND		
ICV_1633_052824.d	NMeFOSA	D3-NMeFOSA - ISTD	QC	10.053	98284	22137	4.4399	9.4597	10.0000	94.6
BIC_1633_052824.d	NMeFOSA	D3-NMeFOSA - ISTD	Sample	10.053	126992	21859	5.8096	12.3779		

D9-NEtFOSE

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	D9-NEtFOSE	13C4-PFOS	Calibration	10.219	244872	43132	5.6773	26.1850	25.0000	104.7
CAL2_1633_052824.d	D9-NEtFOSE	13C4-PFOS	Calibration	10.227	213398	43567	4.8981	22.5913	25.0000	90.4
CAL3_1633_052824.d	D9-NEtFOSE	13C4-PFOS	Calibration	10.219	193632	43403	4.4612	20.5763	25.0000	82.3

1603

D9-NEtFOSE

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL4_1633_052824.d	D9-NEtFOSE	13C4-PFOS	Calibration	10.219	237740	46288	5.1361	23.6889	25.0000	94.8
CAL5_1633_052824.d	D9-NEtFOSE	13C4-PFOS	Calibration	10.227	266672	48446	5.5046	25.3883	25.0000	101.6
CAL6_1633_052824.d	D9-NEtFOSE	13C4-PFOS	Calibration	10.227	243809	45419	5.3679	24.7582	25.0000	99.0
CAL7_1633_052824.d	D9-NEtFOSE	13C4-PFOS	Calibration	10.227	247037	41840	5.9044	27.2325	25.0000	108.9
CAL8_1633_052824.d	D9-NEtFOSE	13C4-PFOS	Calibration	10.219	229816	40838	5.6276	25.9557	25.0000	103.8
CAL9_1633_052824.d	D9-NEtFOSE	13C4-PFOS	Calibration	10.219	220877	38277	5.7705	26.6151	25.0000	106.5
CALA_1633_052824.d	D9-NEtFOSE	13C4-PFOS	Calibration	10.219	215260	36759	5.8559	27.0089	25.0000	108.0
IBL1_1633_052824.d	D9-NEtFOSE	13C4-PFOS	Sample	10.236	226996	38125	5.9540	27.4615		
ICV_1633_052824.d	D9-NEtFOSE	13C4-PFOS	QC	10.236	226109	36689	6.1628	28.4244	25.0000	113.7
BIC_1633_052824.d	D9-NEtFOSE	13C4-PFOS	Sample	10.227	231434	38494	6.0122	27.7296		

NEtFOSE

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	NEtFOSE	D9-NEtFOSE - ISTD	Calibration	10.245	9980	244872	0.0408	0.8875	1.0000	88.8
CAL2_1633_052824.d	NEtFOSE	D9-NEtFOSE - ISTD	Calibration	10.253	19410	213398	0.0910	1.9806	2.0000	99.0
CAL3_1633_052824.d	NEtFOSE	D9-NEtFOSE - ISTD	Calibration	10.245	52658	193632	0.2720	5.9218	5.0000	118.4
CAL4_1633_052824.d	NEtFOSE	D9-NEtFOSE - ISTD	Calibration	10.245	130819	237740	0.5503	11.9822	12.5000	95.9
CAL5_1633_052824.d	NEtFOSE	D9-NEtFOSE - ISTD	Calibration	10.245	308814	266672	1.1580	25.2165	25.0000	100.9
CAL6_1633_052824.d	NEtFOSE	D9-NEtFOSE - ISTD	Calibration	10.245	576220	243809	2.3634	51.4642	50.0000	102.9
CAL7_1633_052824.d	NEtFOSE	D9-NEtFOSE - ISTD	Calibration	10.245	1423078	247037	5.7606	125.4392	125.0000	100.4
CAL8_1633_052824.d	NEtFOSE	D9-NEtFOSE - ISTD	Calibration	10.245	2668644	229816	11.6121	252.8583	250.0000	101.1
CAL9_1633_052824.d	NEtFOSE	D9-NEtFOSE - ISTD	Calibration	10.253	4889899	220877	22.1385	482.0756	500.0000	96.4
CALA_1633_052824.d	NEtFOSE	D9-NEtFOSE - ISTD	Calibration	10.253	5944920	215260	27.6174	601.3808	625.0000	96.2
IBL1_1633_052824.d	NEtFOSE	D9-NEtFOSE - ISTD	Sample	10.253	1279	226996	0.0056	0.1227		
ICV_1633_052824.d	NEtFOSE	D9-NEtFOSE - ISTD	QC	10.253	98038	226109	0.4336	9.4416	10.0000	94.4
BIC_1633_052824.d	NEtFOSE	D9-NEtFOSE - ISTD	Sample	10.253	84042	231434	0.3631	7.9075		

D5-NEtFOSA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	D5-NEtFOSA	13C4-PFOS	Calibration	10.354	25801	43132	0.5982	2.6838	2.5000	107.4
CAL2_1633_052824.d	D5-NEtFOSA	13C4-PFOS	Calibration	10.362	22694	43567	0.5209	2.3370	2.5000	93.5
CAL3_1633_052824.d	D5-NEtFOSA	13C4-PFOS	Calibration	10.354	19588	43403	0.4513	2.0248	2.5000	81.0
CAL4_1633_052824.d	D5-NEtFOSA	13C4-PFOS	Calibration	10.354	24125	46288	0.5212	2.3384	2.5000	93.5
CAL5_1633_052824.d	D5-NEtFOSA	13C4-PFOS	Calibration	10.354	26898	48446	0.5552	2.4910	2.5000	99.6
CAL6_1633_052824.d	D5-NEtFOSA	13C4-PFOS	Calibration	10.354	25387	45419	0.5589	2.5077	2.5000	100.3
CAL7_1633_052824.d	D5-NEtFOSA	13C4-PFOS	Calibration	10.354	25215	41840	0.6026	2.7038	2.5000	108.2
CAL8_1633_052824.d	D5-NEtFOSA	13C4-PFOS	Calibration	10.354	23338	40838	0.5715	2.5640	2.5000	102.6
CAL9_1633_052824.d	D5-NEtFOSA	13C4-PFOS	Calibration	10.354	22608	38277	0.5906	2.6499	2.5000	106.0
CALA_1633_052824.d	D5-NEtFOSA	13C4-PFOS	Calibration	10.354	22120	36759	0.6017	2.6997	2.5000	108.0
IBL1_1633_052824.d	D5-NEtFOSA	13C4-PFOS	Sample	10.362	22375	38125	0.5869	2.6331		
ICV_1633_052824.d	D5-NEtFOSA	13C4-PFOS	QC	10.362	22058	36689	0.6012	2.6973	2.5000	107.9

D5-NEtFOSA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
BIC_1633_052824.d	D5-NEtFOSA	13C4-PFOS	Sample	10.362	22346	38494	0.5805	2.6044		

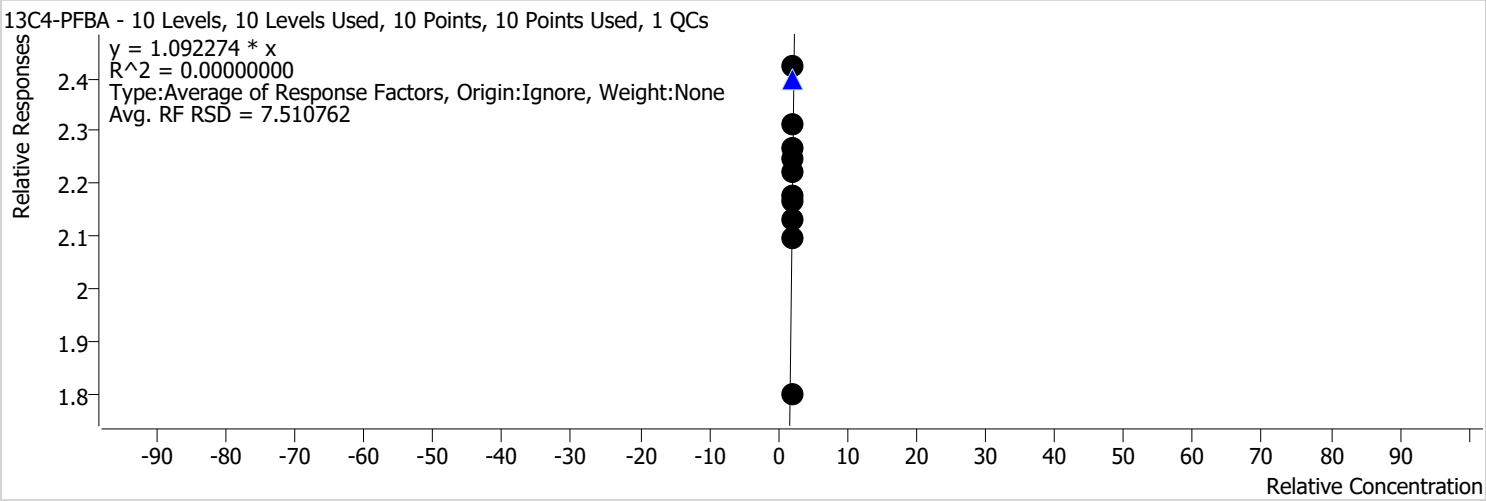
NEtFOSA

Data File	Compound	ISTD	Sample Type	RT	Resp.	ISTD Resp.	Resp. Ratio	Final Conc	Exp. Conc	Accuracy
CAL1_1633_052824.d	NEtFOSA	D5-NEtFOSA - ISTD	Calibration	10.364	1123	25801	0.0435	0.0823	0.1000	82.3
CAL2_1633_052824.d	NEtFOSA	D5-NEtFOSA - ISTD	Calibration	10.364	2298	22694	0.1013	0.1913	0.2000	95.7
CAL3_1633_052824.d	NEtFOSA	D5-NEtFOSA - ISTD	Calibration	10.364	6094	19588	0.3111	0.5877	0.5000	117.5
CAL4_1633_052824.d	NEtFOSA	D5-NEtFOSA - ISTD	Calibration	10.364	15212	24125	0.6305	1.1912	1.2500	95.3
CAL5_1633_052824.d	NEtFOSA	D5-NEtFOSA - ISTD	Calibration	10.364	34685	26898	1.2895	2.4361	2.5000	97.4
CAL6_1633_052824.d	NEtFOSA	D5-NEtFOSA - ISTD	Calibration	10.364	67287	25387	2.6505	5.0072	5.0000	100.1
CAL7_1633_052824.d	NEtFOSA	D5-NEtFOSA - ISTD	Calibration	10.364	166351	25215	6.5974	12.4636	12.5000	99.7
CAL8_1633_052824.d	NEtFOSA	D5-NEtFOSA - ISTD	Calibration	10.364	319543	23338	13.6918	25.8662	25.0000	103.5
CAL9_1633_052824.d	NEtFOSA	D5-NEtFOSA - ISTD	Calibration	10.364	625005	22608	27.6455	52.2270	50.0000	104.5
CALA_1633_052824.d	NEtFOSA	D5-NEtFOSA - ISTD	Calibration	10.364	761220	22120	34.4136	65.0132	62.5000	104.0
IBL1_1633_052824.d	NEtFOSA	D5-NEtFOSA - ISTD	Sample	10.381	0	22375	0.0000	ND		
ICV_1633_052824.d	NEtFOSA	D5-NEtFOSA - ISTD	QC	10.373	113670	22058	5.1533	9.7355	10.0000	97.4
BIC_1633_052824.d	NEtFOSA	D5-NEtFOSA - ISTD	Sample	10.373	135130	22346	6.0471	11.4241		

1604

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:20 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/29/2024 8:19 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

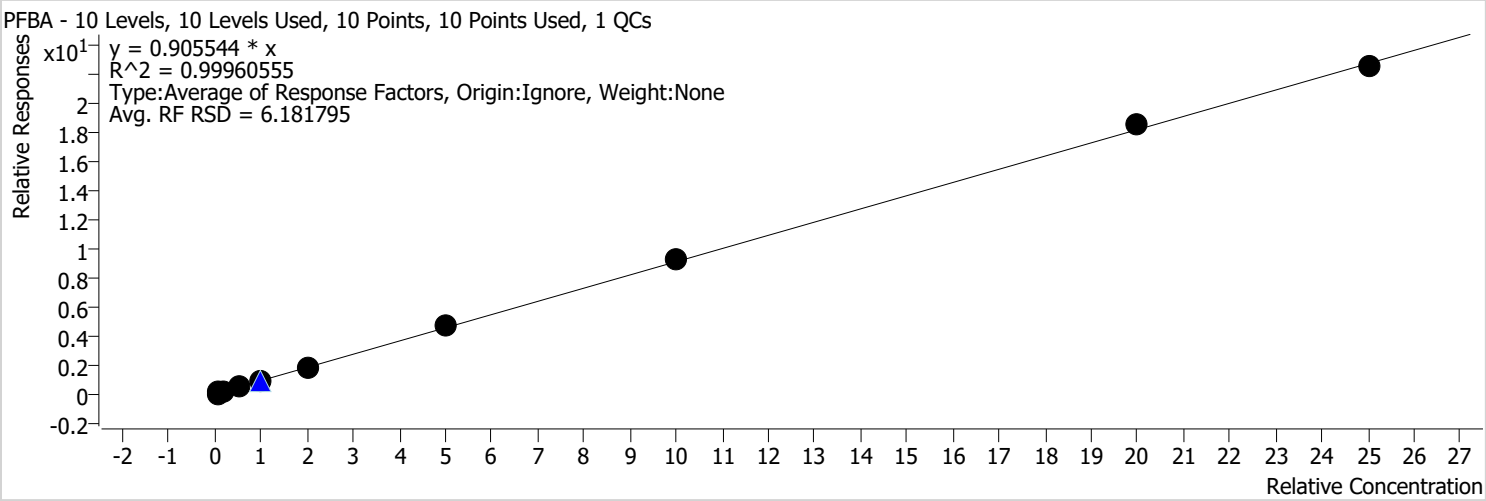
13C4-PFBA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\MassHunter\Data\MAY2024\052824\CAL1_1633_052824.d	Calibration	1	x	274811	10.0000	1.1552
D:\MassHunter\Data\MAY2024\052824\CALA_1633_052824.d	Calibration	10	x	231709	10.0000	1.1118
D:\MassHunter\Data\MAY2024\052824\CAL2_1633_052824.d	Calibration	2	x	256688	10.0000	1.0488
D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	223999	10.0000	0.9005
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	263790	10.0000	1.0661
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	299701	10.0000	1.1244
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	282138	10.0000	1.0832
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	295806	10.0000	1.2107
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8	x	262486	10.0000	1.0885
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9	x	246808	10.0000	1.1336
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	257377	10.0000	1.1996

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:20 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/29/2024 8:19 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

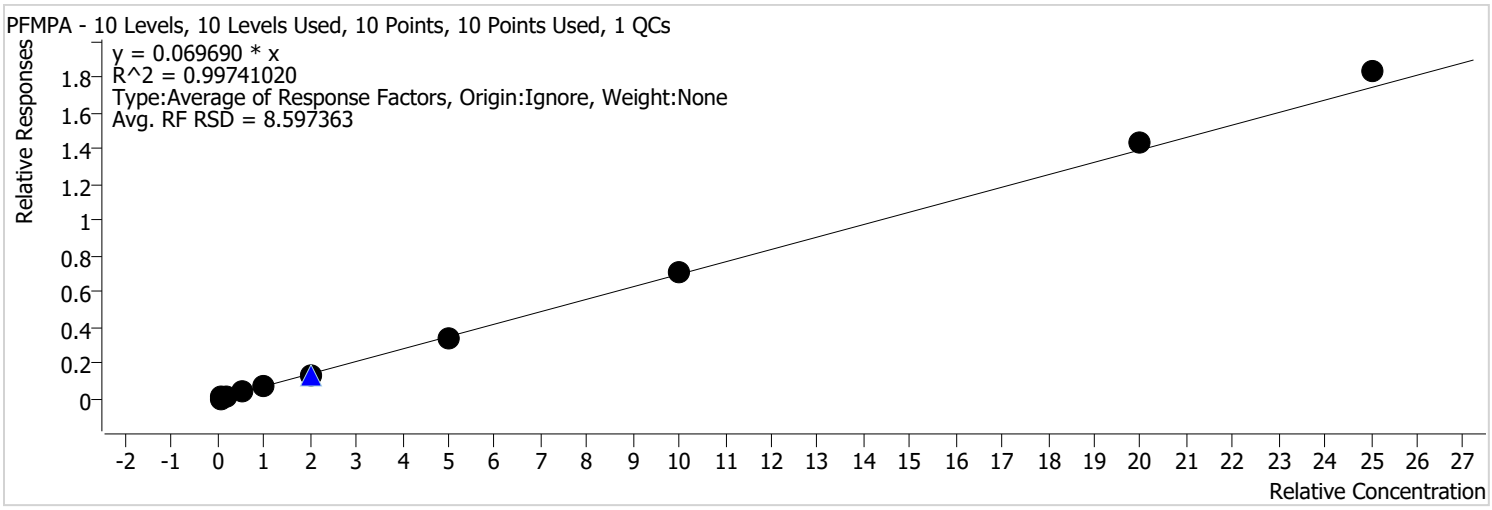
PFBA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\MassHunter\Data\MAY2024\052824\CAL1_1633_052824.d	Calibration	1	x	8911	0.4000	0.8035
D:\MassHunter\Data\MAY2024\052824\CAL2_1633_052824.d	Calibration	2	x	18398	0.8000	0.8671
D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	45474	2.0000	1.0243
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	117015	5.0000	0.8760
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	267543	10.0000	0.8986
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	217133	10.0000	0.8425
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	511228	20.0000	0.9164
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	1311339	50.0000	0.9270
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8	x	2414992	100.0000	0.9211
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9	x	4526338	200.0000	0.9251
D:\MassHunter\Data\MAY2024\052824\CALA_1633_052824.d	Calibration	10	x	5278472	250.0000	0.8964

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:20 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/29/2024 8:19 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

PFMPA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\MassHunter\Data\MAY2024\052824\CAL1_1633_052824.d	Calibration	1	x	607	0.2000	0.0595
D:\MassHunter\Data\MAY2024\052824\CAL2_1633_052824.d	Calibration	2	x	1372	0.4000	0.0720
D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	3180	1.0000	0.0819
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	8347	2.5000	0.0696
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	16985	5.0000	0.0652
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	31836	10.0000	0.0657
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	29112	10.0000	0.0684
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	81227	25.0000	0.0669
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8	x	161220	50.0000	0.0711
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9	x	305320	100.0000	0.0720
D:\MassHunter\Data\MAY2024\052824\CALA_1633_052824.d	Calibration	10	x	375536	125.0000	0.0732

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:20 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/29/2024 8:19 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

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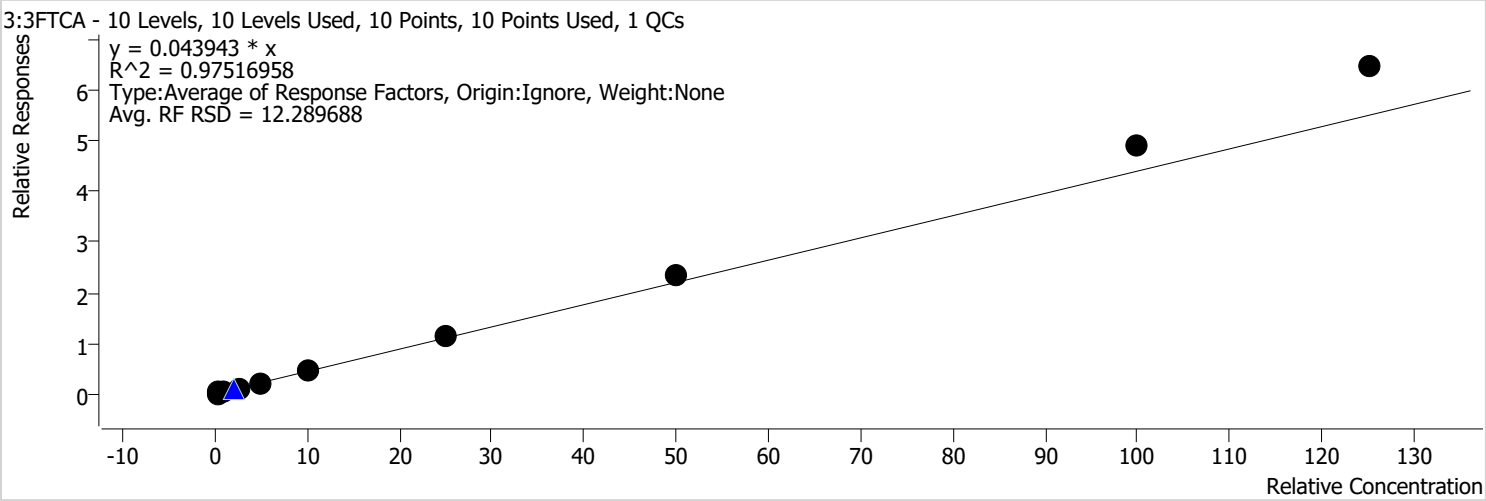
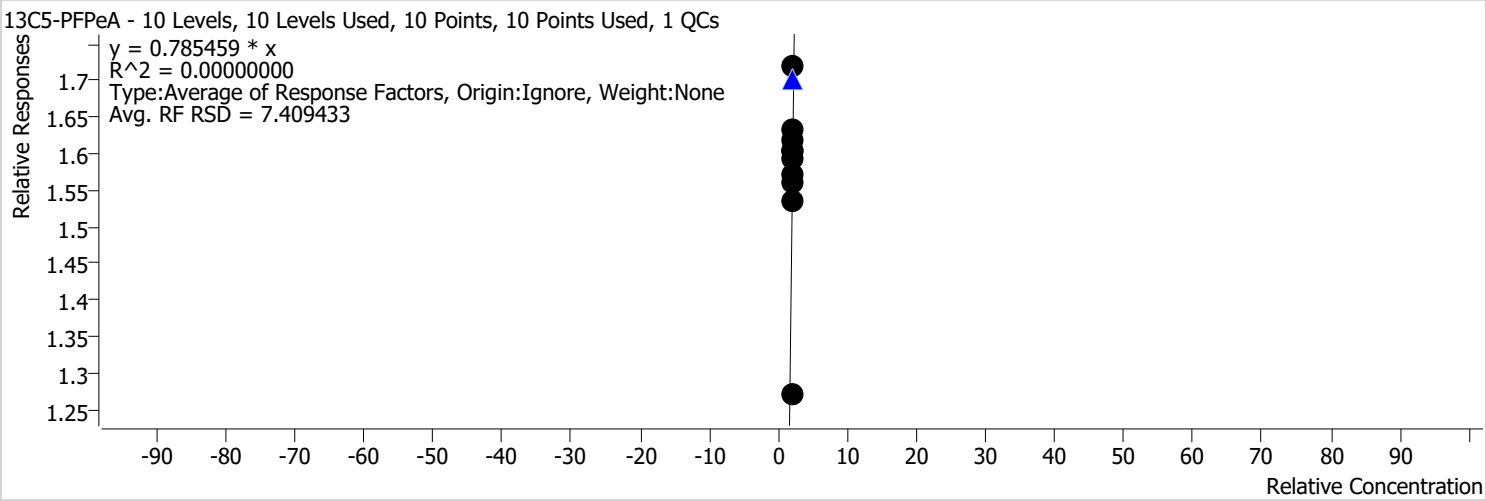


Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\MassHunter\Data\MAY2024\052824\CAL1_1633_052824.d	Calibration	1	x	1735	1.0000	0.0340
D:\MassHunter\Data\MAY2024\052824\CAL2_1633_052824.d	Calibration	2	x	3735	2.0000	0.0392
D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	9453	5.0000	0.0487
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	17665	10.0000	0.0415
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	23675	12.5000	0.0395
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	54145	25.0000	0.0415
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	108015	50.0000	0.0446
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	271901	125.0000	0.0448
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8	x	527655	250.0000	0.0465
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9	x	1040479	500.0000	0.0490
D:\MassHunter\Data\MAY2024\052824\CALA_1633_052824.d	Calibration	10	x	1323689	625.0000	0.0516

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:20 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/29/2024 8:19 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

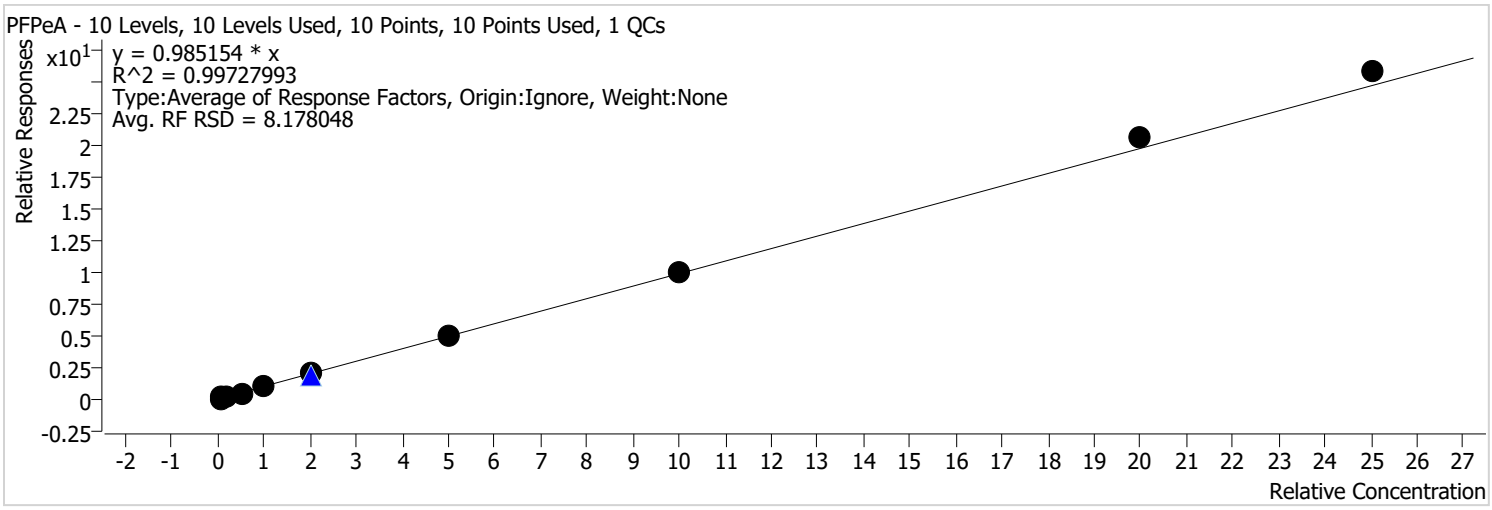
13C5-PFPeA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\MassHunter\Data\MAY2024\052824\CAL1_1633_052824.d	Calibration	1	x	255062	5.0000	0.8592
D:\MassHunter\Data\MAY2024\052824\CALA_1633_052824.d	Calibration	10	x	205190	5.0000	0.8022
D:\MassHunter\Data\MAY2024\052824\CAL2_1633_052824.d	Calibration	2	x	238296	5.0000	0.7857
D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	194052	5.0000	0.6356
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	239973	5.0000	0.7666
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	260642	5.0000	0.8023
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	242403	5.0000	0.7804
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	242939	5.0000	0.8161
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8	x	226801	5.0000	0.7970
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9	x	212132	5.0000	0.8094
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	212840	5.0000	0.8503

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:20 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/29/2024 8:19 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

PFPeA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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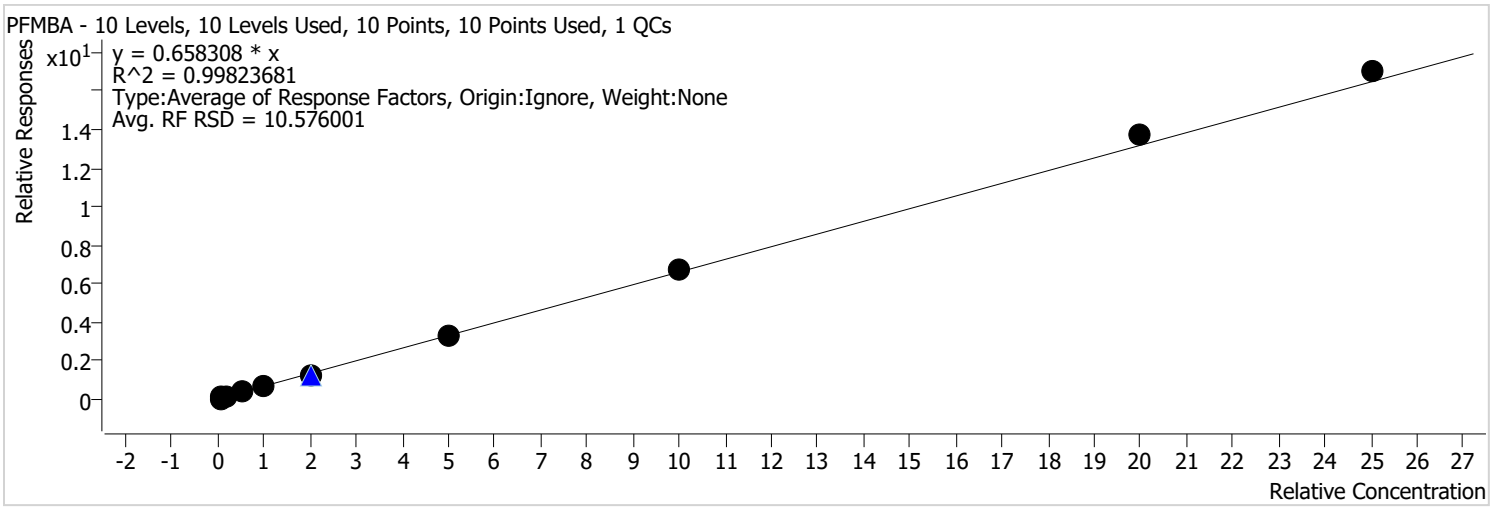
D:\MassHunter\Data\MAY2024\052824\CAL2_1633_052824.d	Calibration	2	x	18109	0.4000	0.9499
D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	44404	1.0000	1.1441
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	113634	2.5000	0.9471
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	250004	5.0000	0.9592
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	475208	10.0000	0.9802
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	401424	10.0000	0.9430
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	1192371	25.0000	0.9816
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8	x	2269318	50.0000	1.0006
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9	x	4385593	100.0000	1.0337
D:\MassHunter\Data\MAY2024\052824\CALA_1633_052824.d	Calibration	10	x	5277835	125.0000	1.0289

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:20 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/29/2024 8:19 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

PFMBA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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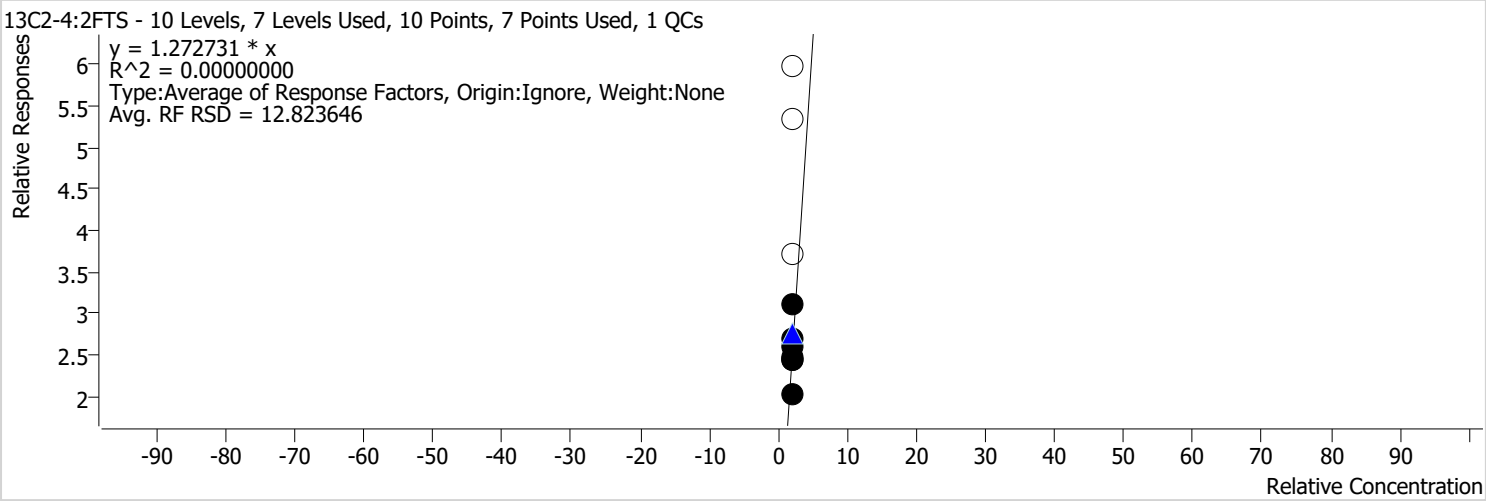
D:\MassHunter\Data\MAY2024\052824\CAL2_1633_052824.d	Calibration	2	x	11903	0.4000	0.6244
D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	31395	1.0000	0.8089
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	79907	2.5000	0.6660
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	165250	5.0000	0.6340
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	309088	10.0000	0.6375
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	254832	10.0000	0.5986
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	790688	25.0000	0.6509
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8	x	1515931	50.0000	0.6684
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9	x	2914876	100.0000	0.6870
D:\MassHunter\Data\MAY2024\052824\CALA_1633_052824.d	Calibration	10	x	3483424	125.0000	0.6791

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:20 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/29/2024 8:19 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

13C2-4:2FTS



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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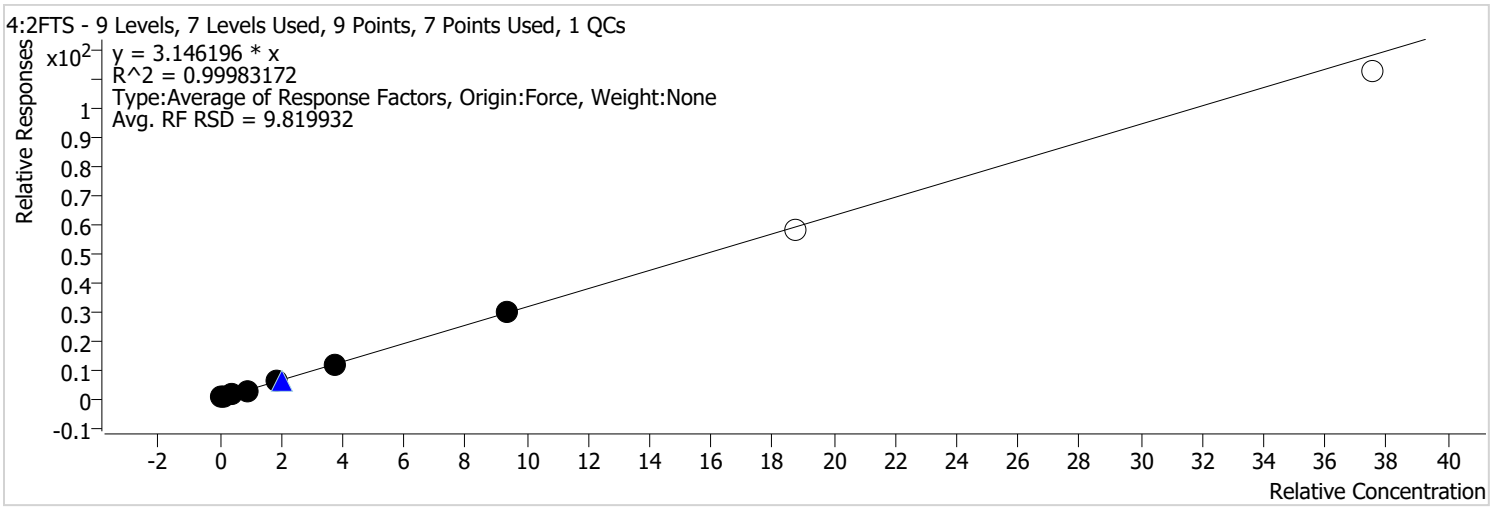
D:\MassHunter\Data\MAY2024\052824\CALA_1633_052824.d	Calibration	10		235391	5.0000	2.9856
D:\MassHunter\Data\MAY2024\052824\CAL2_1633_052824.d	Calibration	2	x	112473	5.0000	1.2434
D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	94799	5.0000	1.0185
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	115016	5.0000	1.2200
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	123074	5.0000	1.2220
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	122104	5.0000	1.3002
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	137371	5.0000	1.5611
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8		159547	5.0000	1.8648
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9		209997	5.0000	2.6715
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	107446	5.0000	1.3761

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:20 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/29/2024 8:19 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

4:2FTS



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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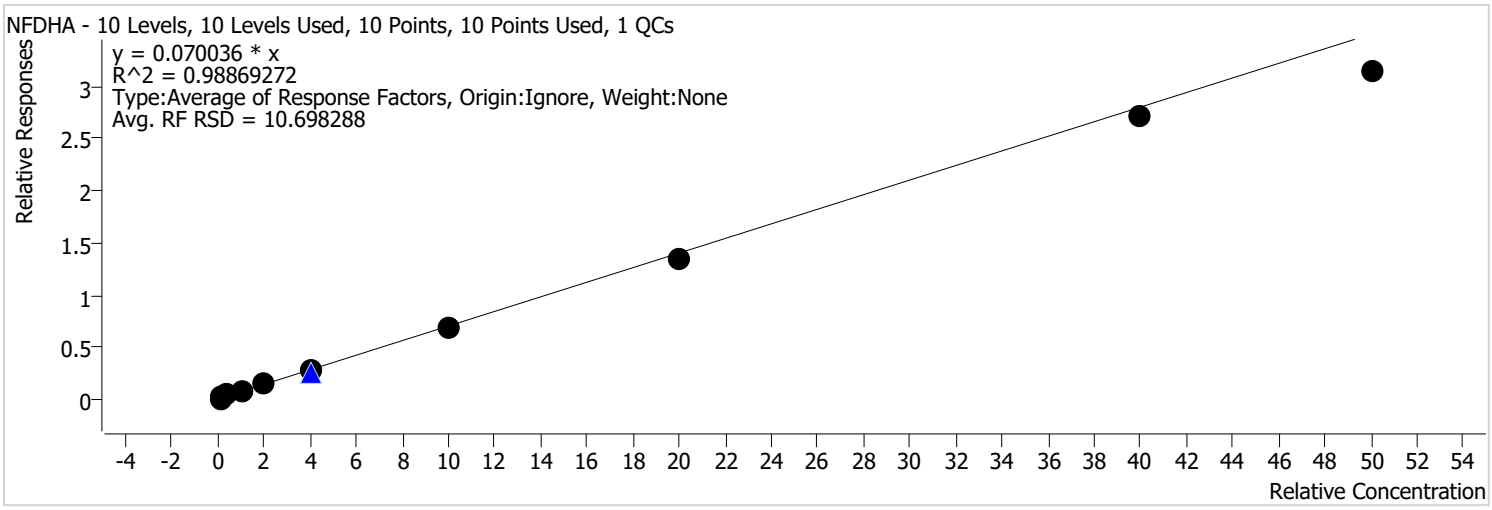
D:\MassHunter\Data\MAY2024\052824\CAL2_1633_052824.d	Calibration	2	x	19039	0.7500	3.1734
D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	47097	1.8750	3.7567
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	115922	4.6880	3.0167
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	235788	9.3750	3.0650
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	211663	10.0000	3.0163
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	434130	18.7500	3.1531
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	965535	46.8750	3.1314
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8		1647806	93.7500	3.0695
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9		2897188	187.5000	2.9960

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:20 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/29/2024 8:19 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

NFDHA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	4745	1.0000	0.0902
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	11189	2.5000	0.0694
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	24553	5.0000	0.0699
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	44393	10.0000	0.0674
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	38543	10.0000	0.0649
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	112250	25.0000	0.0676
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8	x	209156	50.0000	0.0674
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9	x	379942	100.0000	0.0680
D:\MassHunter\Data\MAY2024\052824\CALA_1633_052824.d	Calibration	10	x	437654	125.0000	0.0628

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:20 AM	**Reporter Name**	CONTEST\QQQ5
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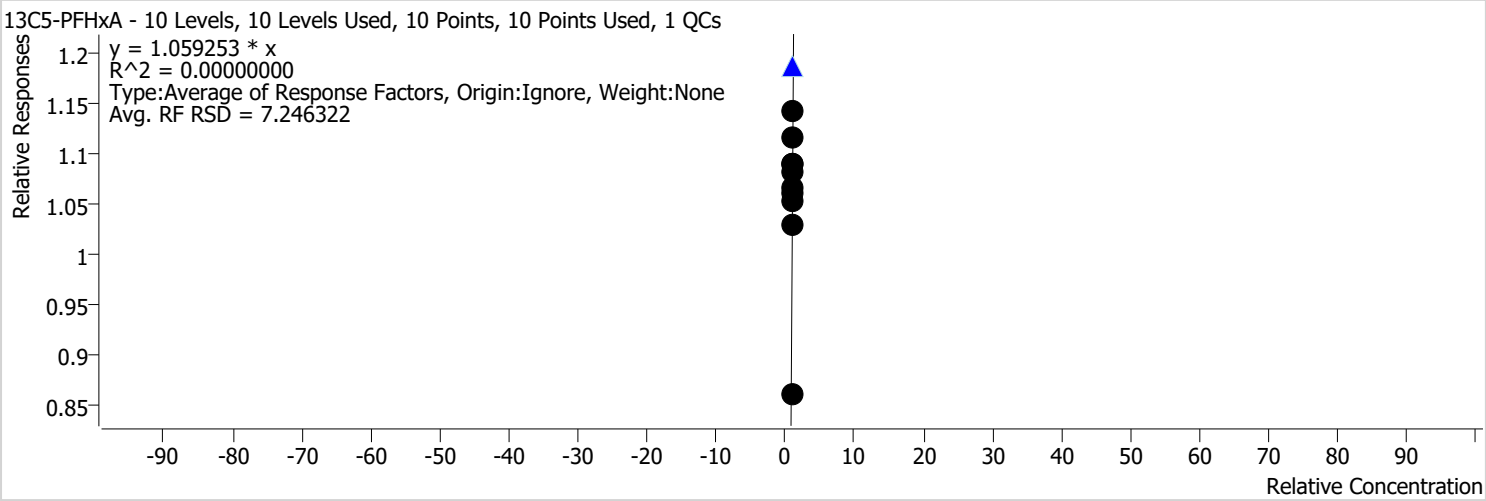
Quant Batch Version	10.2	**Quant Report Version**	10.2

13C5-PFHxA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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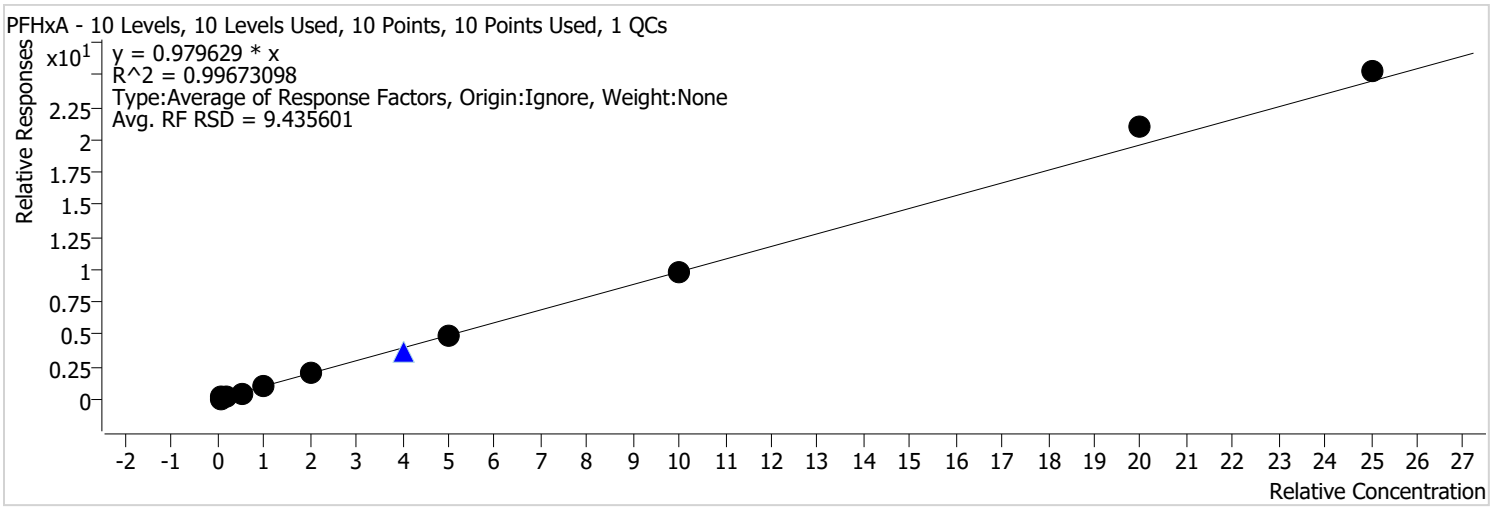
D:\MassHunter\Data\MAY2024\052824\CALA_1633_052824.d	Calibration	10	x	139421	2.5000	1.0902
D:\MassHunter\Data\MAY2024\052824\CAL2_1633_052824.d	Calibration	2	x	159773	2.5000	1.0536
D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	131462	2.5000	0.8612
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	161126	2.5000	1.0295
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	175668	2.5000	1.0815
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	164607	2.5000	1.0599
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	166158	2.5000	1.1164
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8	x	155145	2.5000	1.0904
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9	x	139712	2.5000	1.0661
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	148525	2.5000	1.1867

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:20 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/29/2024 8:19 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

PFHxA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	31206	0.5000	1.1869
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	75783	1.2500	0.9407
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	168794	2.5000	0.9609
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	314645	5.0000	0.9557
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	546440	10.0000	0.9198
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	802343	12.5000	0.9658
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8	x	1524141	25.0000	0.9824
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9	x	2936285	50.0000	1.0508
D:\MassHunter\Data\MAY2024\052824\CALA_1633_052824.d	Calibration	10	x	3515937	62.5000	1.0087

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:20 AM	**Reporter Name**	CONTEST\QQQ5
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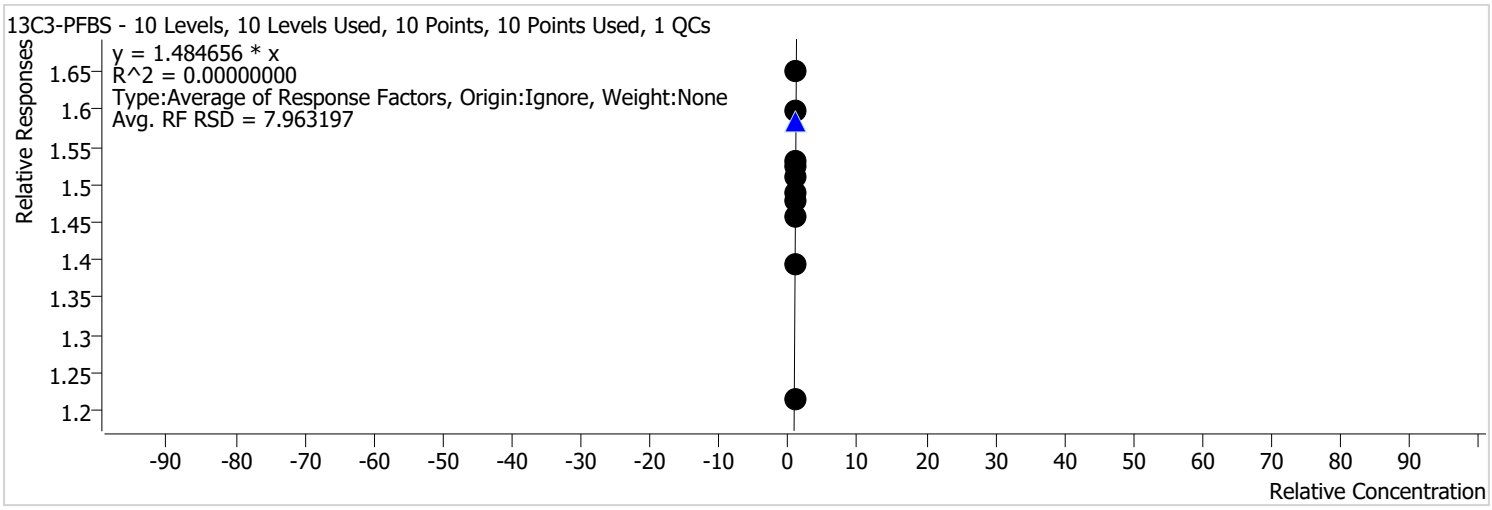
Quant Batch Version	10.2	**Quant Report Version**	10.2

13C3-PFBS



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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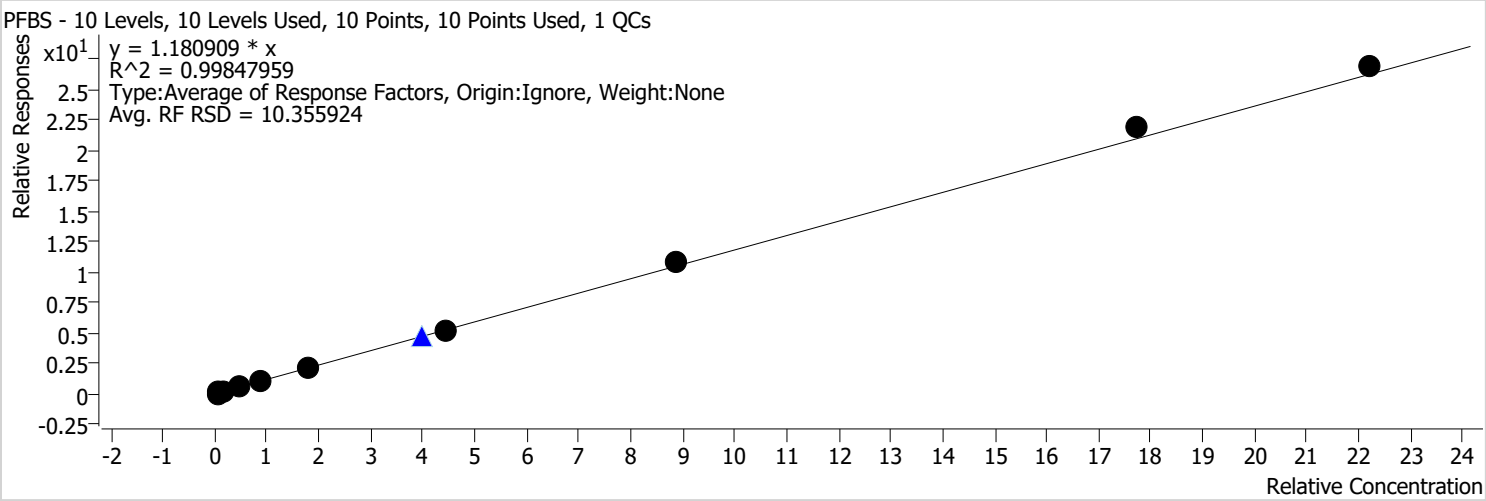
D:\MassHunter\Data\MAY2024\052824\CALA_1633_052824.d	Calibration	10	x	54934	2.5000	1.3935
D:\MassHunter\Data\MAY2024\052824\CAL2_1633_052824.d	Calibration	2	x	68901	2.5000	1.5234
D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	56573	2.5000	1.2156
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	70206	2.5000	1.4893
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	77054	2.5000	1.5302
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	70853	2.5000	1.5089
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	70338	2.5000	1.5987
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8	x	63274	2.5000	1.4791
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9	x	57316	2.5000	1.4583
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	61849	2.5000	1.5842

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:20 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/29/2024 8:19 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

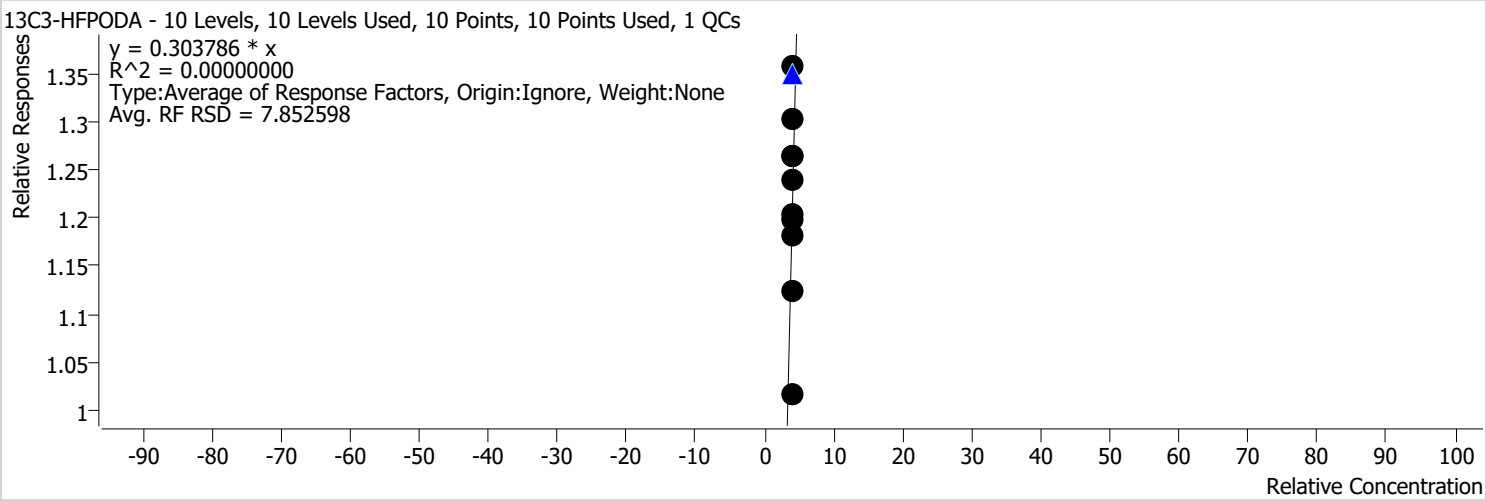
PFBS



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\MassHunter\Data\MAY2024\052824\CAL1_1633_052824.d	Calibration	1	x	2375	0.0887	0.9039
D:\MassHunter\Data\MAY2024\052824\CAL2_1633_052824.d	Calibration	2	x	5947	0.1774	1.2164
D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	14050	0.4435	1.4000
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	35465	1.1090	1.1388
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	77675	2.2180	1.1362
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	147159	4.4350	1.1708
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	287974	10.0000	1.1640
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	369667	11.0880	1.1850
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8	x	682739	22.1750	1.2165
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9	x	1252510	44.3500	1.2318
D:\MassHunter\Data\MAY2024\052824\CALA_1633_052824.d	Calibration	10	x	1473761	55.4380	1.2098

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:20 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/29/2024 8:19 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

13C3-HFPODA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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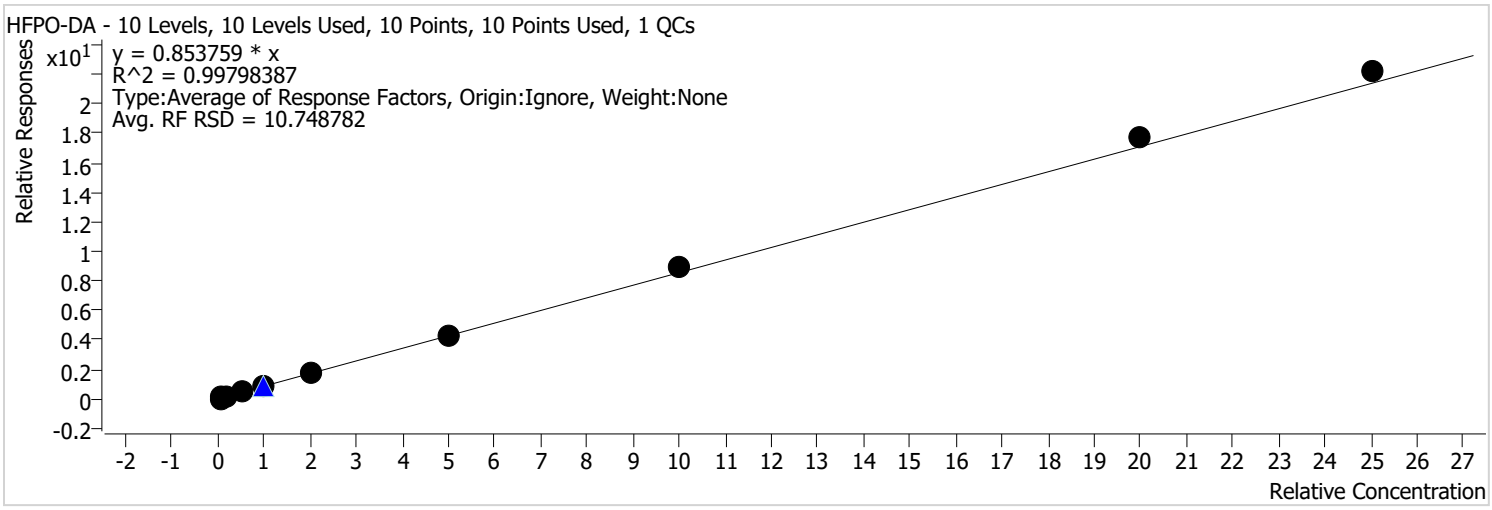
D:\MassHunter\Data\MAY2024\052824\CALA_1633_052824.d	Calibration	10	x	143858	10.0000	0.2812
D:\MassHunter\Data\MAY2024\052824\CAL2_1633_052824.d	Calibration	2	x	191638	10.0000	0.3159
D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	155330	10.0000	0.2544
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	188400	10.0000	0.3009
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	205495	10.0000	0.3163
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	192432	10.0000	0.3098
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	193918	10.0000	0.3257
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8	x	167915	10.0000	0.2950
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9	x	156974	10.0000	0.2995
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	168936	10.0000	0.3375

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:20 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/29/2024 8:19 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

HFPO-DA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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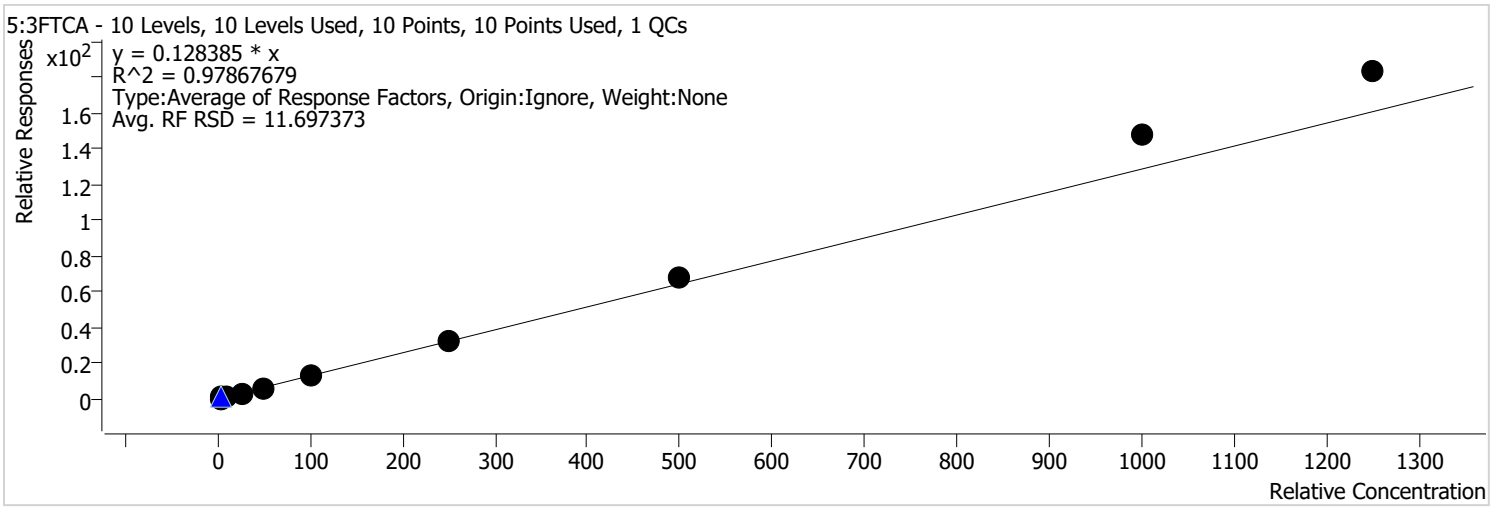
D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	31196	2.0000	1.0042
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	78996	5.0000	0.8386
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	164385	10.0000	0.7999
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	144143	10.0000	0.8532
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	332024	20.0000	0.8627
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	823088	50.0000	0.8489
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8	x	1493948	100.0000	0.8897
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9	x	2784141	200.0000	0.8868
D:\MassHunter\Data\MAY2024\052824\CALA_1633_052824.d	Calibration	10	x	3183416	250.0000	0.8852

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:20 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/29/2024 8:19 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

5:3FTCA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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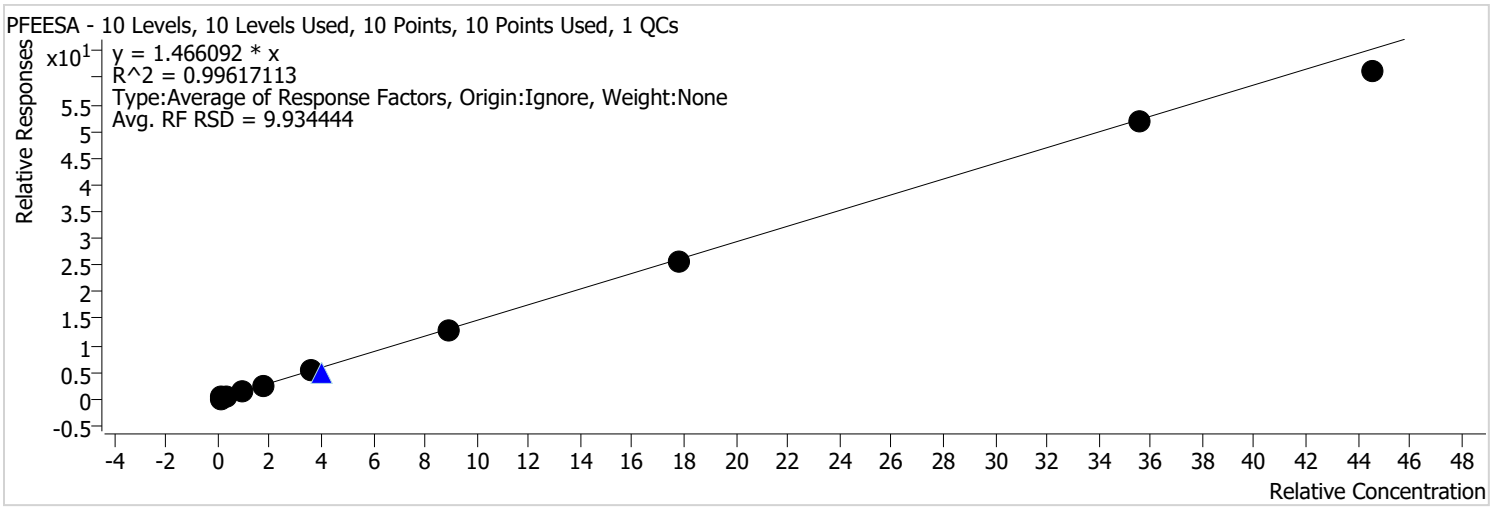
D:\MassHunter\Data\MAY2024\052824\CAL2_1633_052824.d	Calibration	2	x	73824	10.0000	0.1155
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	70224	10.0000	0.1182
D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	187983	25.0000	0.1430
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	482021	62.5000	0.1197
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	1079795	125.0000	0.1229
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	2101059	250.0000	0.1276
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	5302385	625.0000	0.1276
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8	x	10449291	1250.0000	0.1347
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9	x	20527630	2500.0000	0.1469
D:\MassHunter\Data\MAY2024\052824\CALA_1633_052824.d	Calibration	10	x	25466888	3120.0000	0.1464

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:20 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/29/2024 8:19 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

PFEESA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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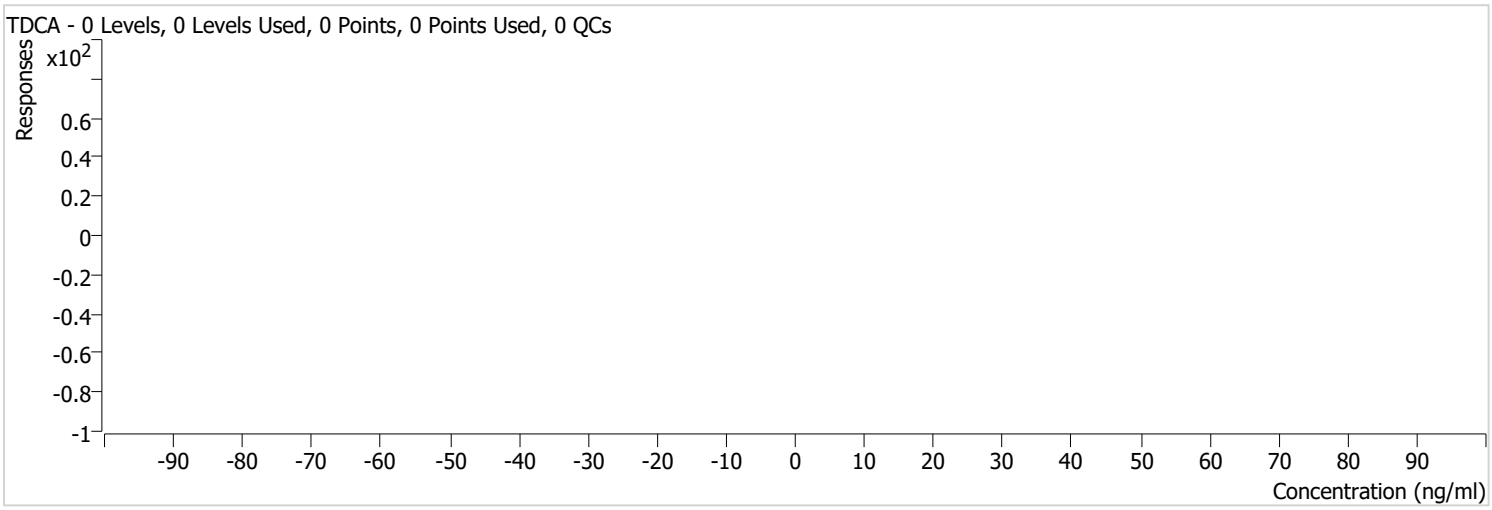
D:\MassHunter\Data\MAY2024\052824\CAL2_1633_052824.d	Calibration	2	x	33036	0.3560	1.4520
D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	85059	0.8900	1.8175
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	218184	2.2250	1.5215
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	461143	4.4500	1.4748
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	849783	8.9000	1.4501
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	755459	10.0000	1.2716
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	2122267	22.2500	1.4351
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8	x	3979325	44.5000	1.4410
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9	x	7271875	89.0000	1.4620
D:\MassHunter\Data\MAY2024\052824\CALA_1633_052824.d	Calibration	10	x	8511017	111.2500	1.3718

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:20 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/29/2024 8:19 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

TDCA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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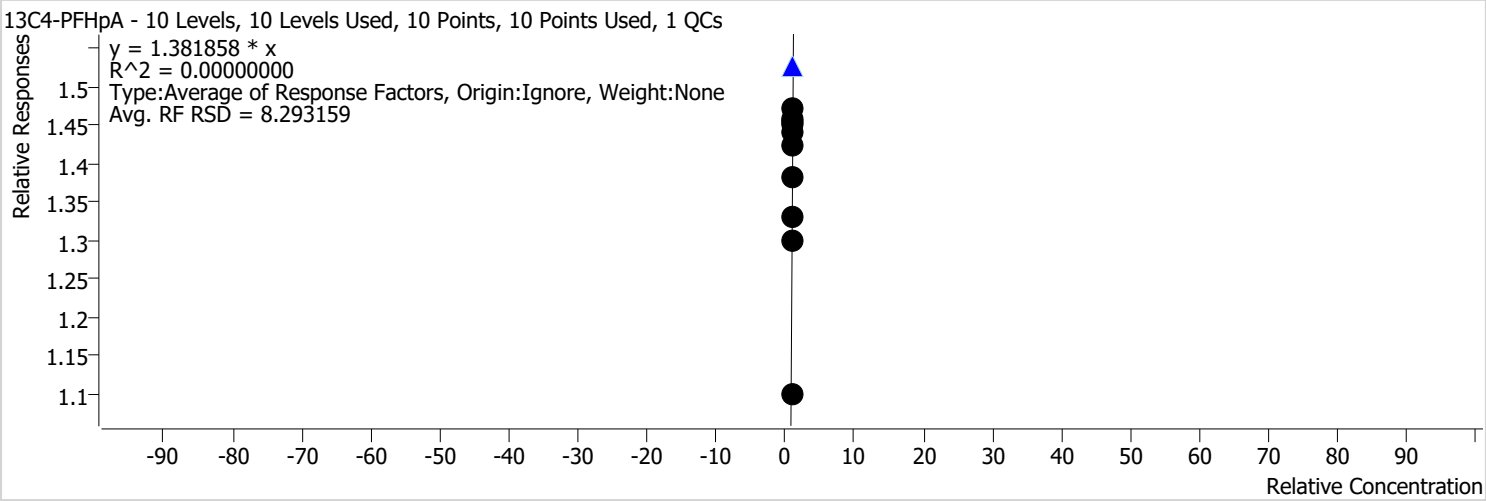
Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:20 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/29/2024 8:19 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

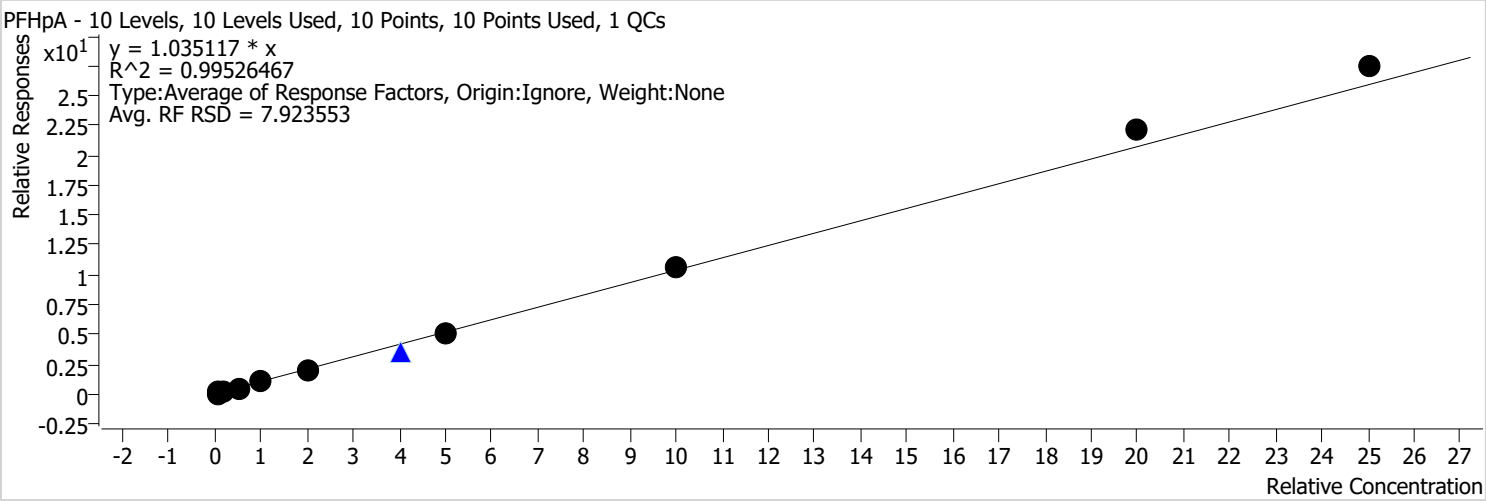
13C4-PFHpA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\MassHunter\Data\MAY2024\052824\CAL1_1633_052824.d	Calibration	1	x	216653	2.5000	1.4596
D:\MassHunter\Data\MAY2024\052824\CALA_1633_052824.d	Calibration	10	x	186246	2.5000	1.4564
D:\MassHunter\Data\MAY2024\052824\CAL2_1633_052824.d	Calibration	2	x	201579	2.5000	1.3293
D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	168035	2.5000	1.1008
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	203652	2.5000	1.3012
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	231340	2.5000	1.4242
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	214698	2.5000	1.3825
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	214346	2.5000	1.4401
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8	x	206658	2.5000	1.4525
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9	x	192918	2.5000	1.4721
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	190972	2.5000	1.5259

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:20 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/29/2024 8:19 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

PFHpA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\MassHunter\Data\MAY2024\052824\CAL1_1633_052824.d	Calibration	1	x	7450	0.1000	0.8597
D:\MassHunter\Data\MAY2024\052824\CAL2_1633_052824.d	Calibration	2	x	16649	0.2000	1.0324
D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	39279	0.5000	1.1688
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	101458	1.2500	0.9964
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	232411	2.5000	1.0046
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	439449	5.0000	1.0234
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	687521	10.0000	0.9000
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	1086134	12.5000	1.0134
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8	x	2173340	25.0000	1.0517
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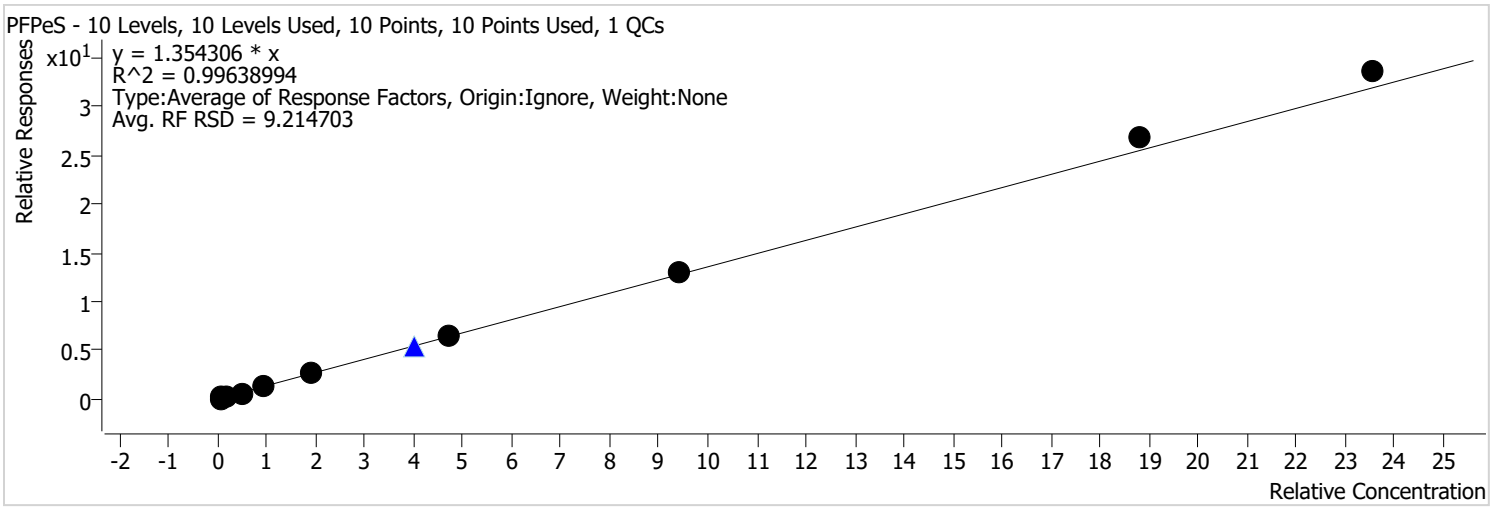
D:\MassHunter\Data\MAY2024\052824\CALA_1633_052824.d	Calibration	10	x	5098864	62.5000	1.0951

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:20 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/29/2024 8:19 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

PFPeS



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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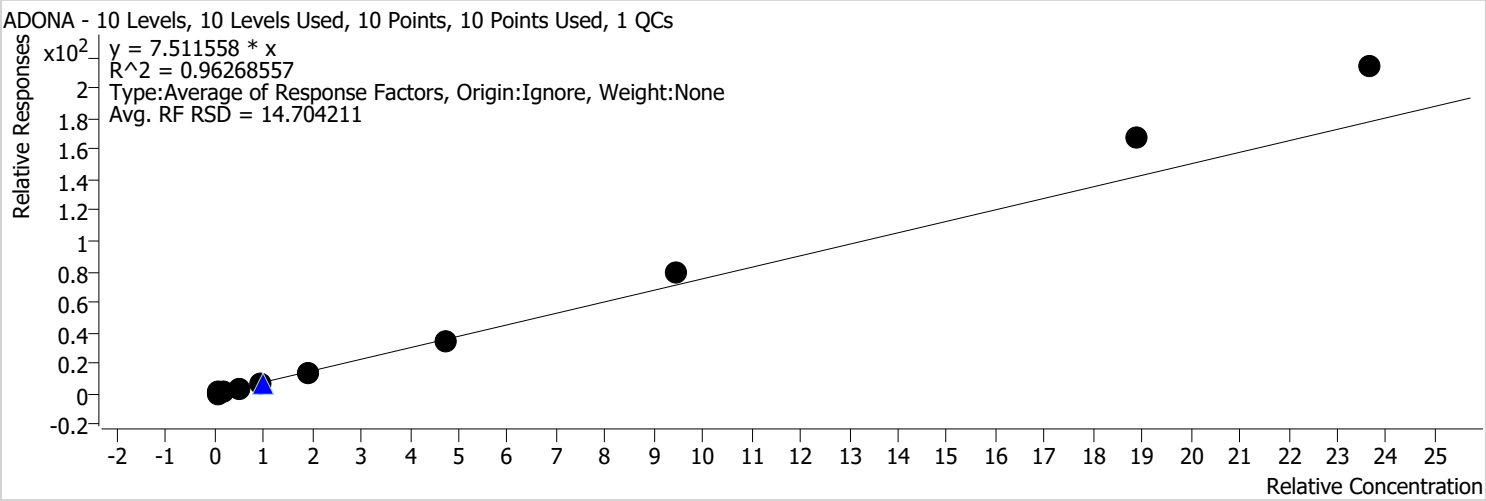
D:\MassHunter\Data\MAY2024\052824\CAL2_1633_052824.d	Calibration	2	x	4893	0.1882	1.4300
D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	11164	0.4705	1.4986
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	28911	1.1760	1.3136
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	64904	2.3530	1.2904
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	123605	4.7050	1.3651
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	231248	10.0000	1.3212
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	311358	11.7630	1.3700
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8	x	587517	23.5250	1.3760
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9	x	1116256	47.0500	1.4300
D:\MassHunter\Data\MAY2024\052824\CALA_1633_052824.d	Calibration	10	x	1345229	58.8130	1.4253

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:20 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/29/2024 8:19 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

ADONA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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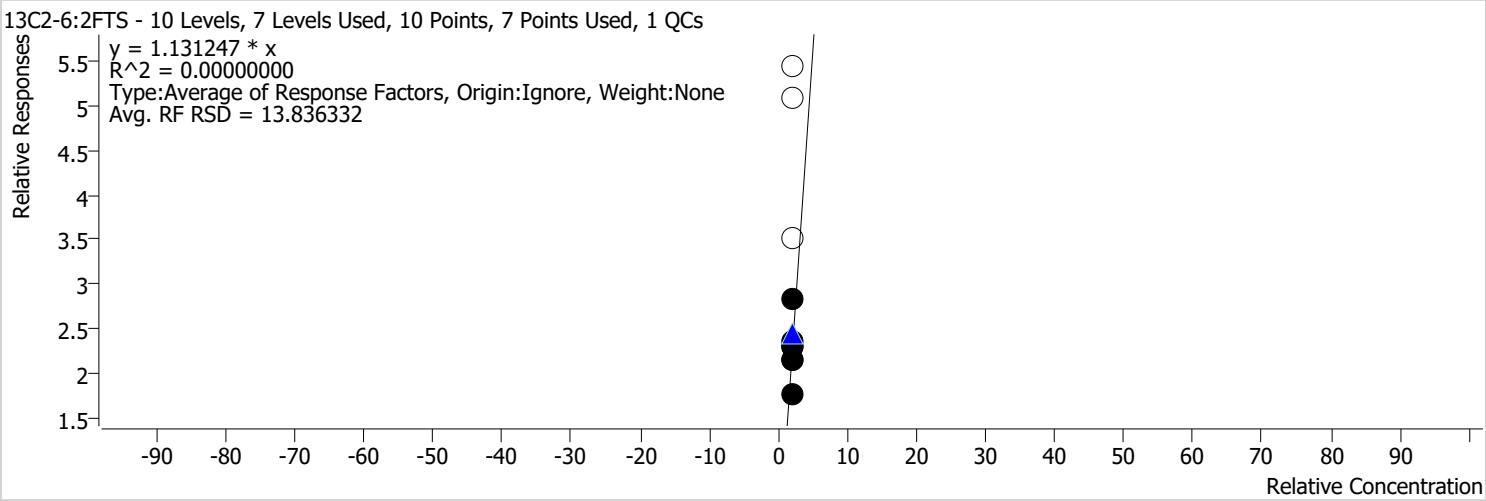
D:\MassHunter\Data\MAY2024\052824\CAL2_1633_052824.d	Calibration	2	x	104057	0.7560	7.1824
D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	242188	1.8900	8.2497
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	625688	4.7250	7.0287
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	1277562	9.4500	6.5788
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	1113987	10.0000	6.5941
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	2622225	18.9000	7.2099
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	6560406	47.2500	7.1600
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8	x	13202888	94.5000	8.3205
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9	x	26335686	189.0000	8.8768
D:\MassHunter\Data\MAY2024\052824\CALA_1633_052824.d	Calibration	10	x	30714988	236.2500	9.0374

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:20 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/29/2024 8:19 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

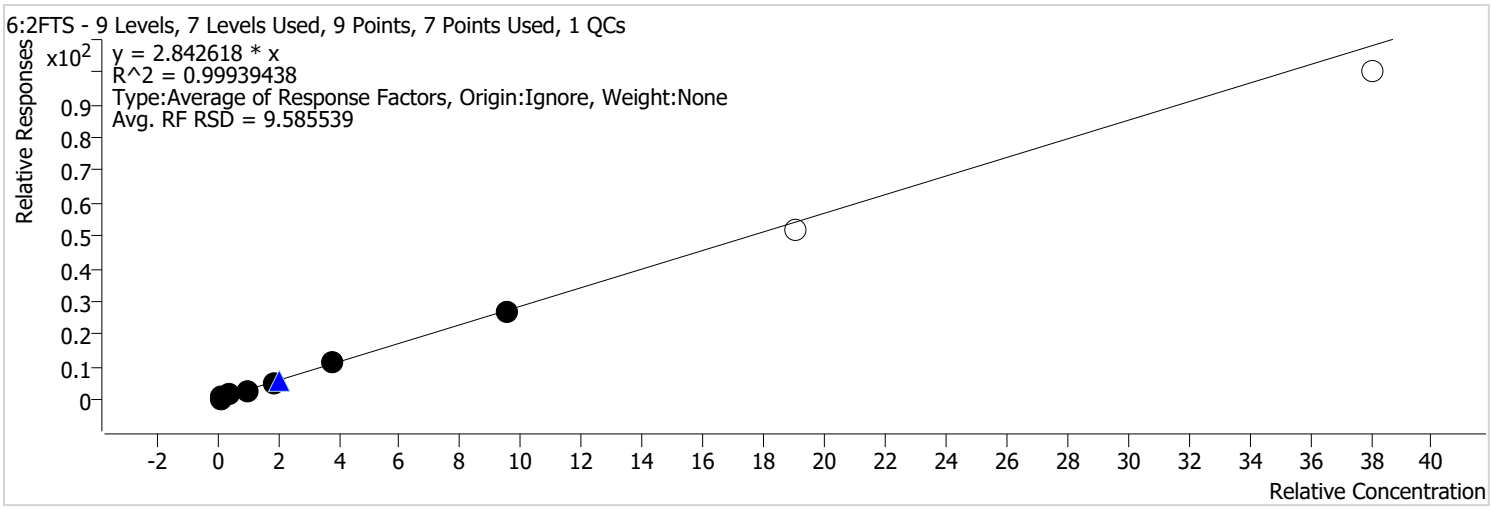
13C2-6:2FTS



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\MassHunter\Data\MAY2024\052824\CAL1_1633_052824.d	Calibration	1	x	103538	5.0000	1.1530
D:\MassHunter\Data\MAY2024\052824\CALA_1633_052824.d	Calibration	10		214023	5.0000	2.7146
D:\MassHunter\Data\MAY2024\052824\CAL2_1633_052824.d	Calibration	2	x	97576	5.0000	1.0787
D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	82454	5.0000	0.8859
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	100658	5.0000	1.0677
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	115444	5.0000	1.1462
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	110663	5.0000	1.1783
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	123975	5.0000	1.4089
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8		150076	5.0000	1.7541
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9		199362	5.0000	2.5362
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	95176	5.0000	1.2189

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:20 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/29/2024 8:19 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

6:2FTS



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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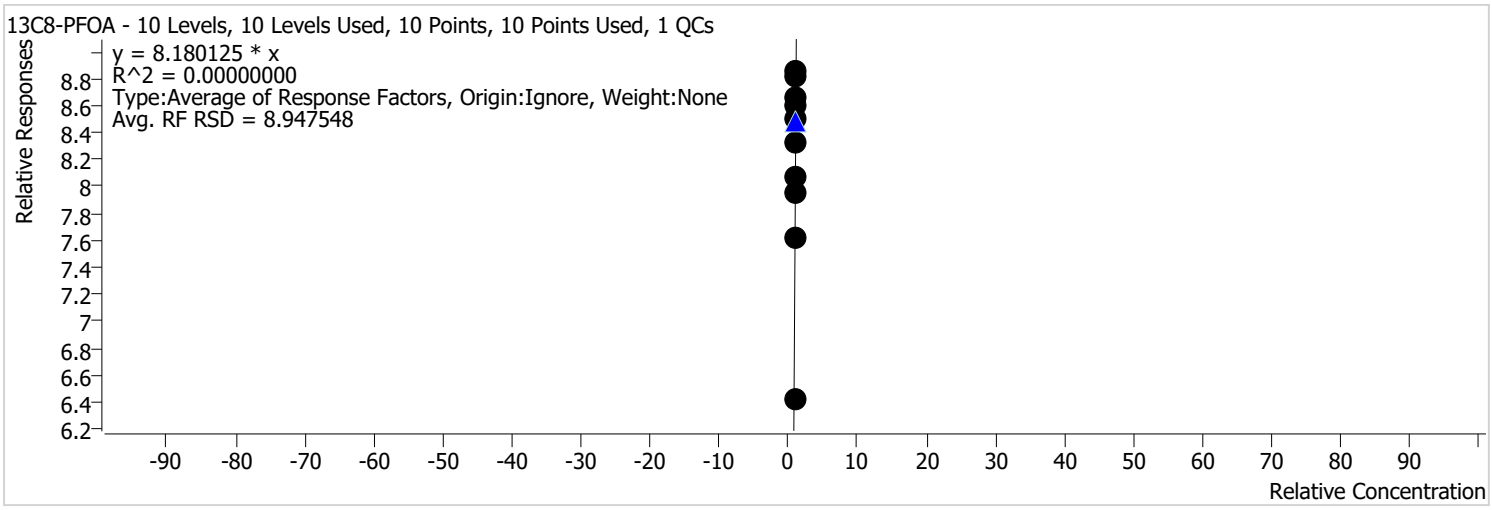
D:\MassHunter\Data\MAY2024\052824\CAL2_1633_052824.d	Calibration	2	x	12994	0.7600	2.8790
D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	31094	1.9000	3.3285
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	78971	4.7500	2.7684
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	170663	9.5000	2.7117
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	143990	10.0000	2.6631
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	311799	19.0000	2.9596
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	701751	47.5000	2.8225
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8		1252139	95.0000	2.7059
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9		2184295	190.0000	2.6337

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:20 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/29/2024 8:19 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

13C8-PFOA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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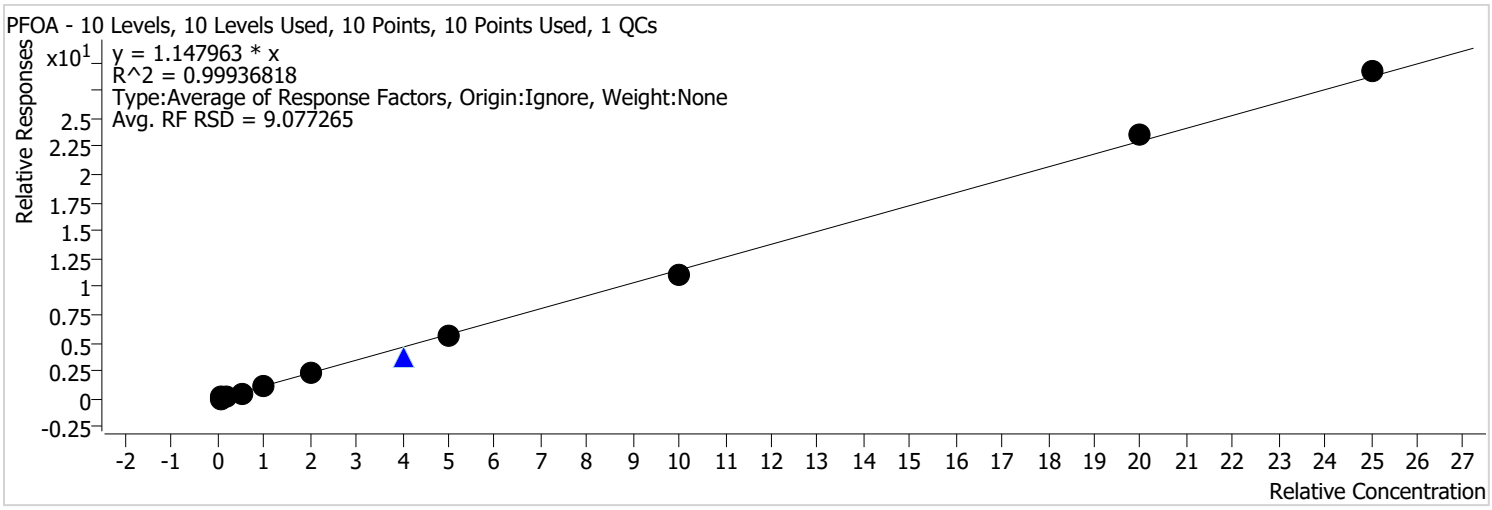
D:\MassHunter\Data\MAY2024\052824\CALA_1633_052824.d	Calibration	10	x	165151	2.5000	8.3222
D:\MassHunter\Data\MAY2024\052824\CAL2_1633_052824.d	Calibration	2	x	181136	2.5000	7.6239
D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	146520	2.5000	6.4264
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	189985	2.5000	8.0589
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	211550	2.5000	8.6064
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	191643	2.5000	7.9523
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	193565	2.5000	8.8466
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8	x	184490	2.5000	8.8125
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9	x	167733	2.5000	8.5034
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	173792	2.5000	8.4788

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:21 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/29/2024 8:19 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

PFOA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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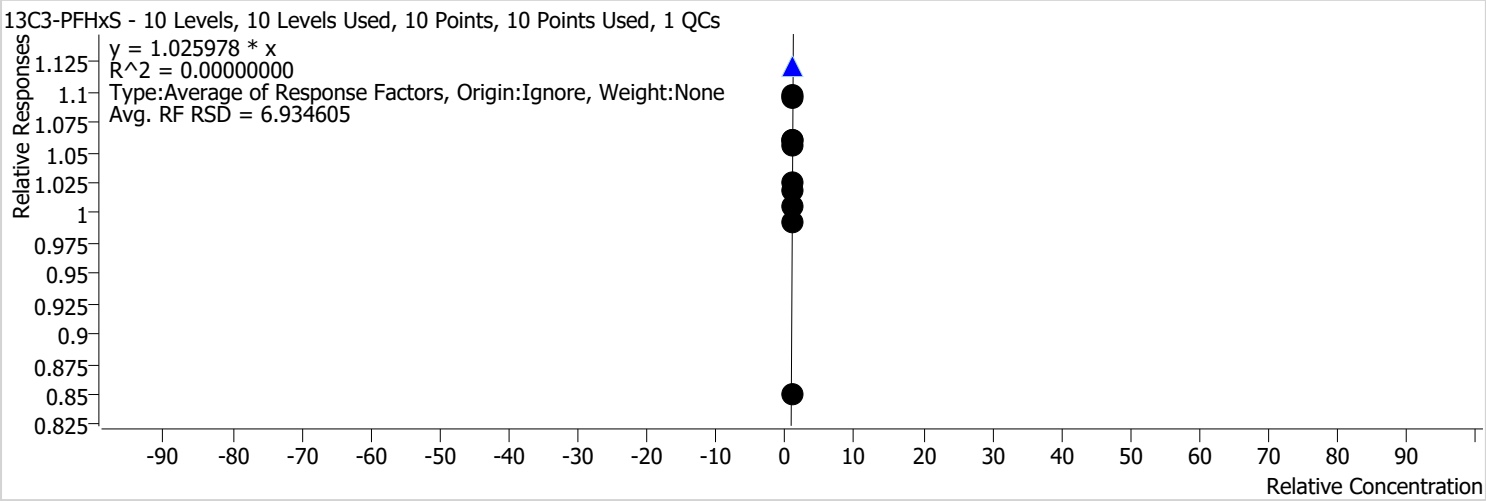
D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	40972	0.5000	1.3982
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	104506	1.2500	1.1001
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	233135	2.5000	1.1020
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	432347	5.0000	1.1280
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	659125	10.0000	0.9482
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	1066845	12.5000	1.1023
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8	x	2044468	25.0000	1.1082
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9	x	3933091	50.0000	1.1724
D:\MassHunter\Data\MAY2024\052824\CALA_1633_052824.d	Calibration	10	x	4811027	62.5000	1.1652

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:21 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/29/2024 8:19 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

13C3-PFHxS



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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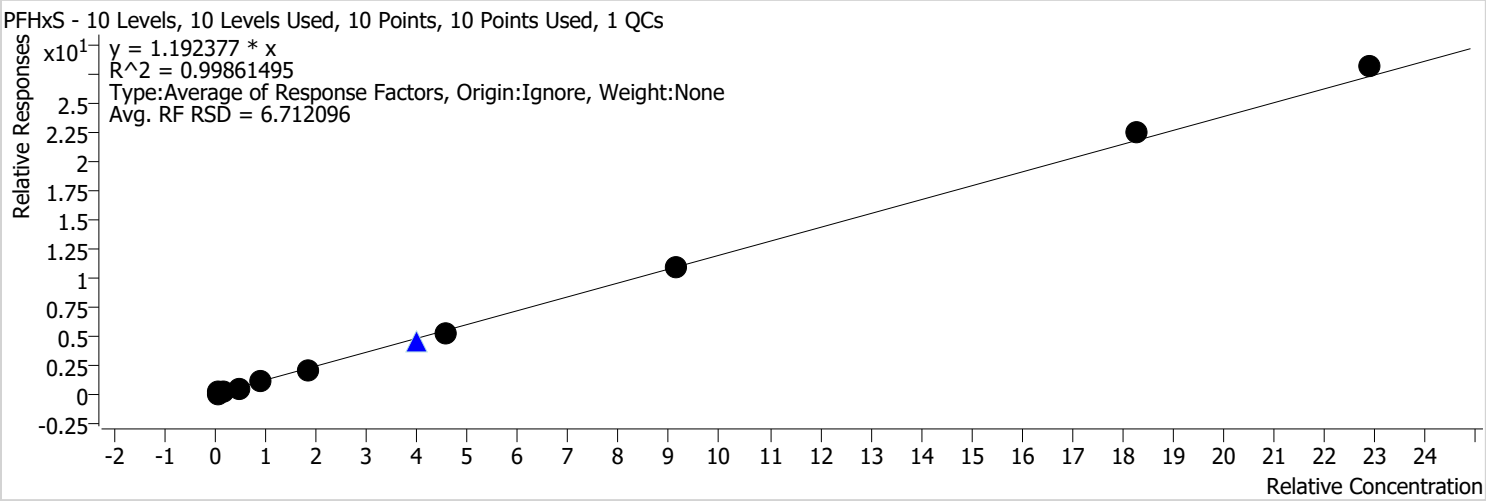
D:\MassHunter\Data\MAY2024\052824\CALA_1633_052824.d	Calibration	10	x	40119	2.5000	1.0177
D:\MassHunter\Data\MAY2024\052824\CAL2_1633_052824.d	Calibration	2	x	45454	2.5000	1.0050
D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	39583	2.5000	0.8506
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	46786	2.5000	0.9925
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	53441	2.5000	1.0612
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	48111	2.5000	1.0246
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	48302	2.5000	1.0978
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8	x	45373	2.5000	1.0606
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9	x	41478	2.5000	1.0553
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	43756	2.5000	1.1208

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:21 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/29/2024 8:19 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

PFHxS



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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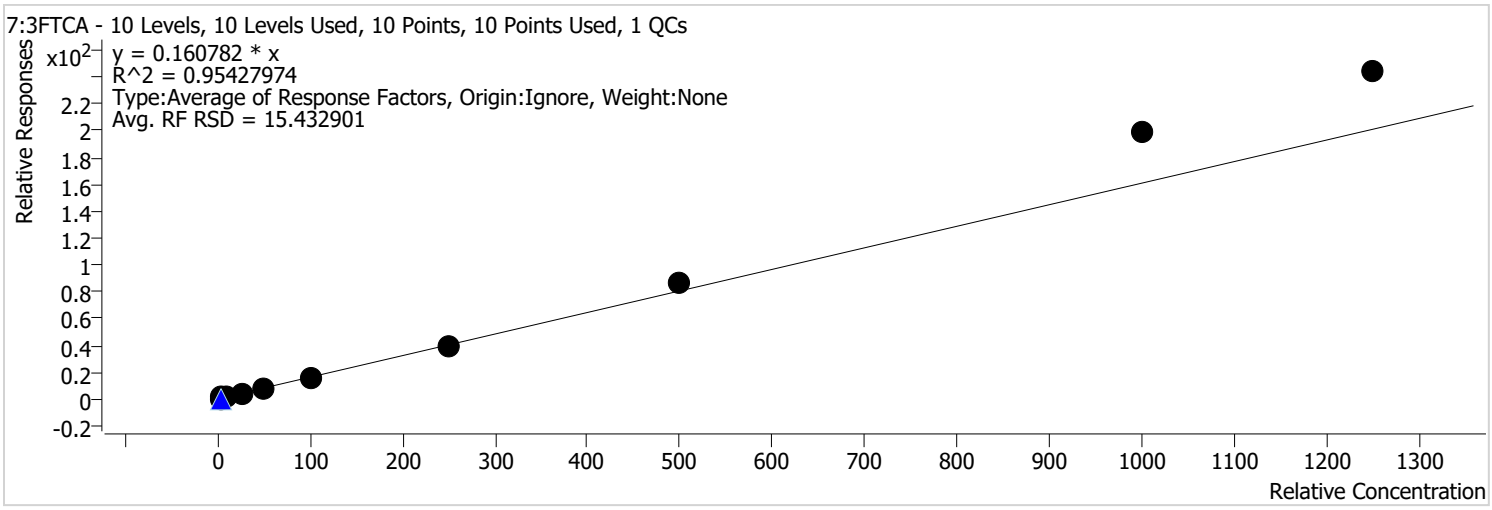
D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	9816	0.4570	1.3566
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	23121	1.1430	1.0809
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	53891	2.2850	1.1033
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	102362	4.5700	1.1639
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	200309	10.0000	1.1445
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	254006	11.4250	1.1507
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8	x	491999	22.8500	1.1864
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9	x	934476	45.7000	1.2325
D:\MassHunter\Data\MAY2024\052824\CALA_1633_052824.d	Calibration	10	x	1127195	57.1250	1.2296

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:21 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/29/2024 8:19 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

7:3FTCA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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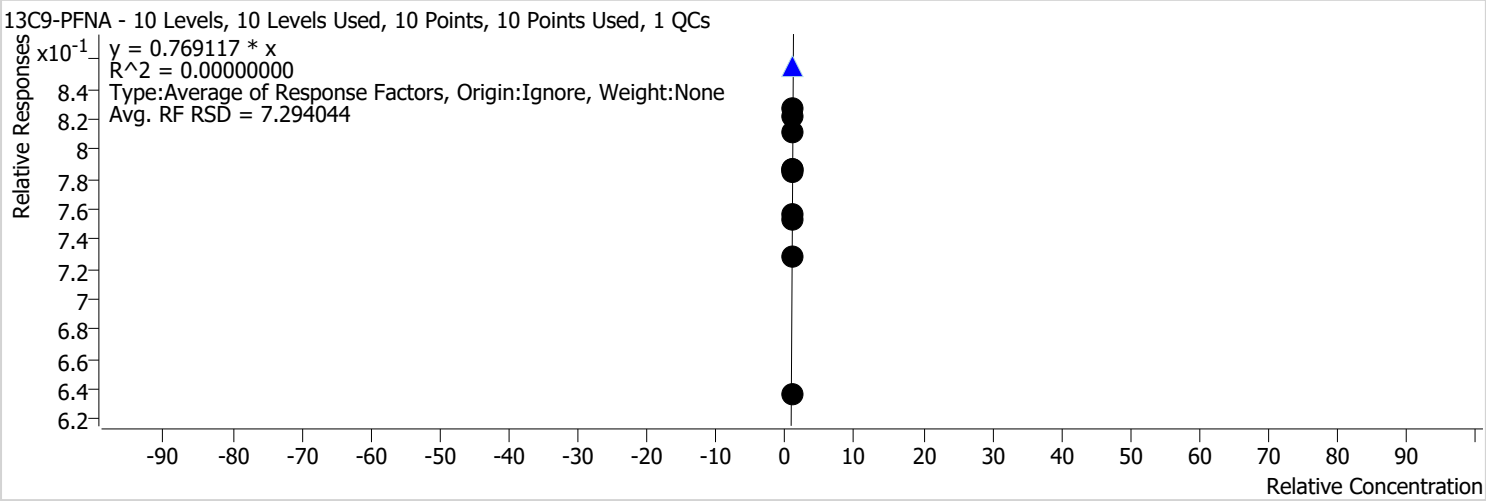
D:\MassHunter\Data\MAY2024\052824\CAL2_1633_052824.d	Calibration	2	x	91029	10.0000	0.1424
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	80751	10.0000	0.1359
D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	226962	25.0000	0.1726
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	579400	62.5000	0.1438
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	1334636	125.0000	0.1519
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	2547066	250.0000	0.1547
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	6493998	625.0000	0.1563
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8	x	13538289	1250.0000	0.1745
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9	x	27710678	2500.0000	0.1983
D:\MassHunter\Data\MAY2024\052824\CALA_1633_052824.d	Calibration	10	x	33978706	3120.0000	0.1953

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:21 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/29/2024 8:19 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

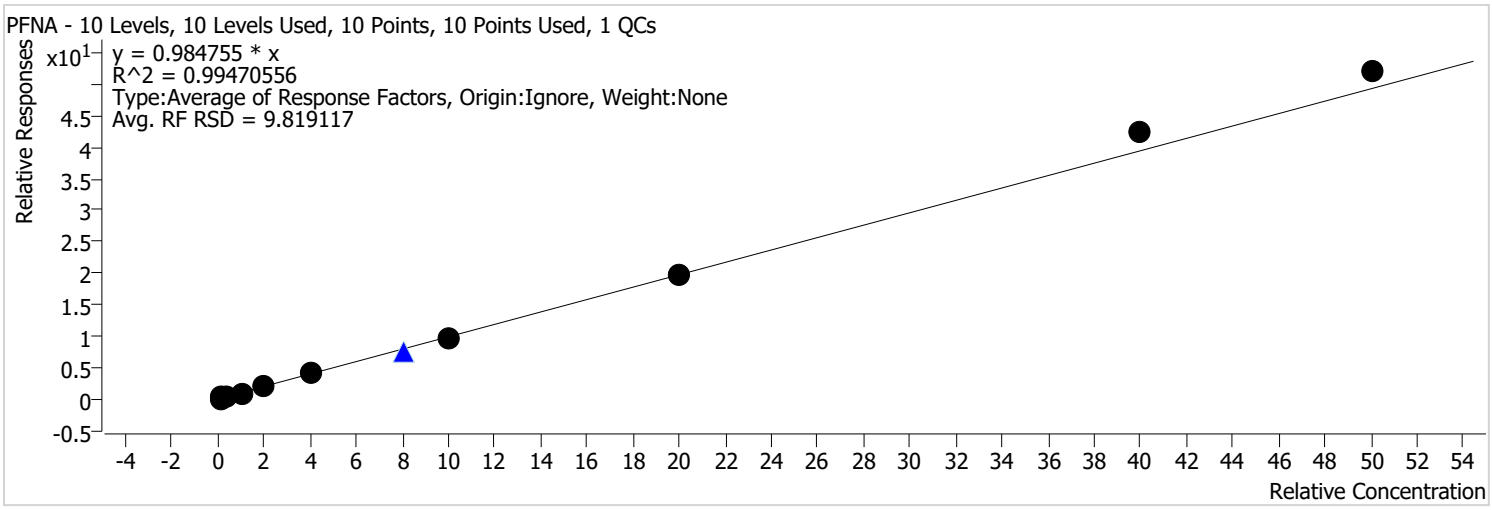
13C9-PFNA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\MassHunter\Data\MAY2024\052824\CAL1_1633_052824.d	Calibration	1	x	92876	1.2500	0.8221
D:\MassHunter\Data\MAY2024\052824\CALA_1633_052824.d	Calibration	10	x	80137	1.2500	0.7861
D:\MassHunter\Data\MAY2024\052824\CAL2_1633_052824.d	Calibration	2	x	85704	1.2500	0.7285
D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	72931	1.2500	0.6370
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	89917	1.2500	0.7521
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	100053	1.2500	0.7873
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	91123	1.2500	0.7562
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	93779	1.2500	0.8275
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8	x	89040	1.2500	0.8103
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9	x	80612	1.2500	0.7842
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	83372	1.2500	0.8547

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:21 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/29/2024 8:19 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

PFNA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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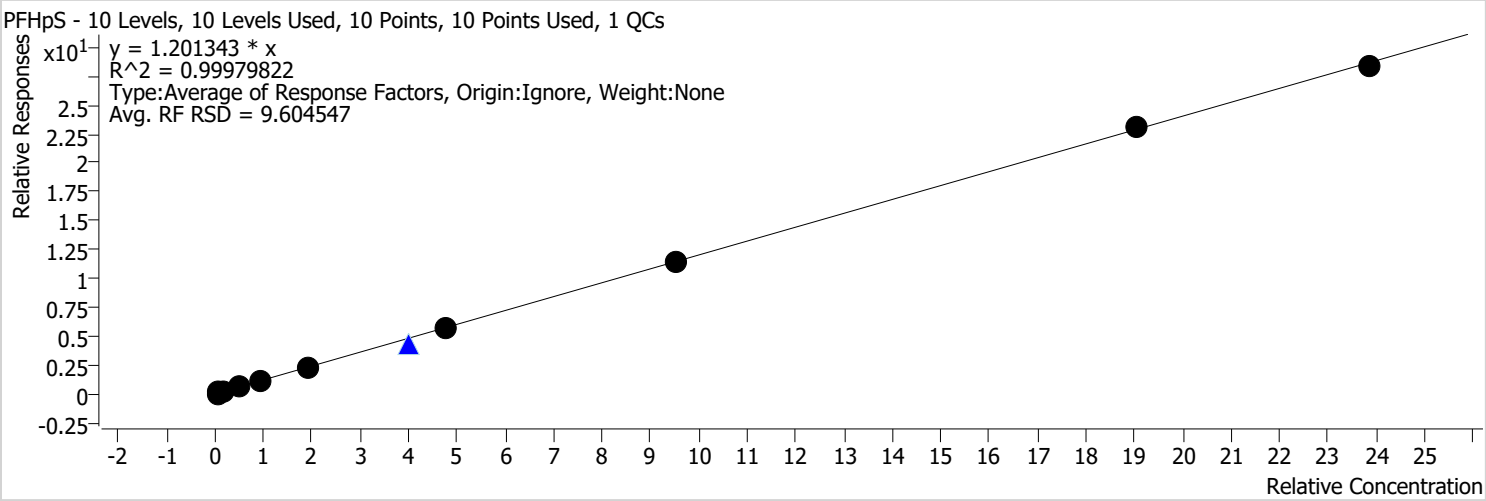
D:\MassHunter\Data\MAY2024\052824\CAL2_1633_052824.d	Calibration	2	x	12693	0.2000	0.9256
D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	33742	0.5000	1.1566
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	86364	1.2500	0.9605
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	191127	2.5000	0.9551
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	362923	5.0000	0.9957
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	639027	10.0000	0.9581
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	914097	12.5000	0.9747
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8	x	1766509	25.0000	0.9920
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9	x	3432891	50.0000	1.0646
D:\MassHunter\Data\MAY2024\052824\CALA_1633_052824.d	Calibration	10	x	4159922	62.5000	1.0382

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:21 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/29/2024 8:19 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

PFHpS



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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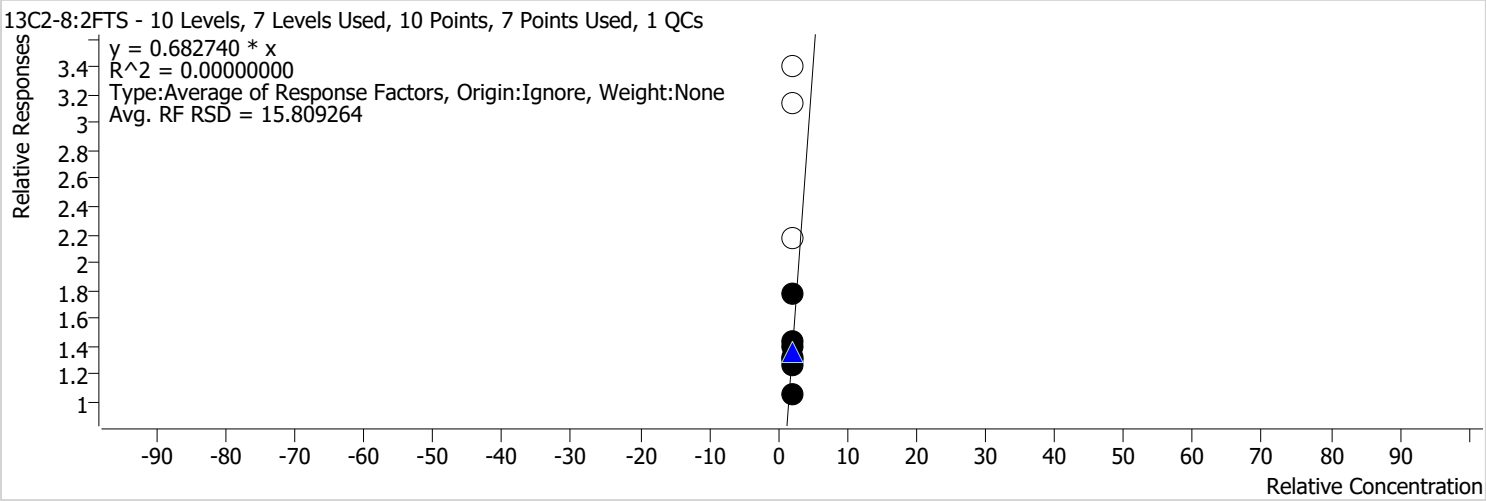
D:\MassHunter\Data\MAY2024\052824\CAL2_1633_052824.d	Calibration	2	x	3425	0.1906	1.1295
D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	9296	0.4765	1.4696
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	23324	1.1910	1.1816
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	51987	2.3830	1.2096
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	97119	4.7650	1.2182
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	169064	10.0000	1.1048
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	237735	11.9130	1.2102
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8	x	456067	23.8250	1.1950
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9	x	840824	47.6500	1.2151
D:\MassHunter\Data\MAY2024\052824\CALA_1633_052824.d	Calibration	10	x	999573	59.5630	1.1869

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:21 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/29/2024 8:19 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

13C2-8:2FTS



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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D:\MassHunter\Data\MAY2024\052824\CALA_1633_052824.d	Calibration	10		133976	5.0000	1.6993
D:\MassHunter\Data\MAY2024\052824\CAL2_1633_052824.d	Calibration	2	x	58931	5.0000	0.6515
D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	49338	5.0000	0.5301
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	59660	5.0000	0.6328
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	70726	5.0000	0.7022
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	67381	5.0000	0.7175
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	77900	5.0000	0.8853
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8		92638	5.0000	1.0827
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9		123045	5.0000	1.5653
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	52741	5.0000	0.6755

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
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Report Time	5/29/2024 8:23:21 AM	**Reporter Name**	CONTEST\QQQ5
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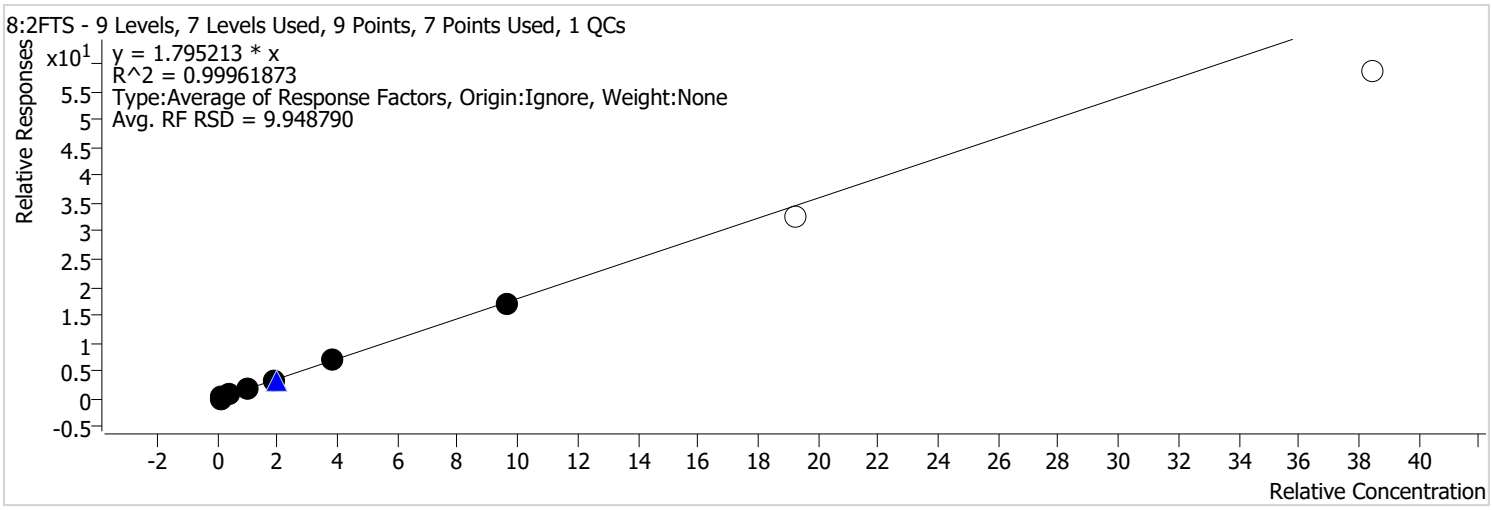
Quant Batch Version	10.2	**Quant Report Version**	10.2

8:2FTS



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\MassHunter\Data\MAY2024\052824\CAL1_1633_052824.d	Calibration	1	x	3581	0.3840	1.5652
D:\MassHunter\Data\MAY2024\052824\CAL2_1633_052824.d	Calibration	2	x	7449	0.7680	1.6939
D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	19557	1.9200	2.1521
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	48608	4.8000	1.8055
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	107058	9.6000	1.7904
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	80037	10.0000	1.6542
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	189179	19.2000	1.7906
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	424850	48.0000	1.7688
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8		757247	96.0000	1.6957
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9		1284179	192.0000	1.5216

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:21 AM	**Reporter Name**	CONTEST\QQQ5
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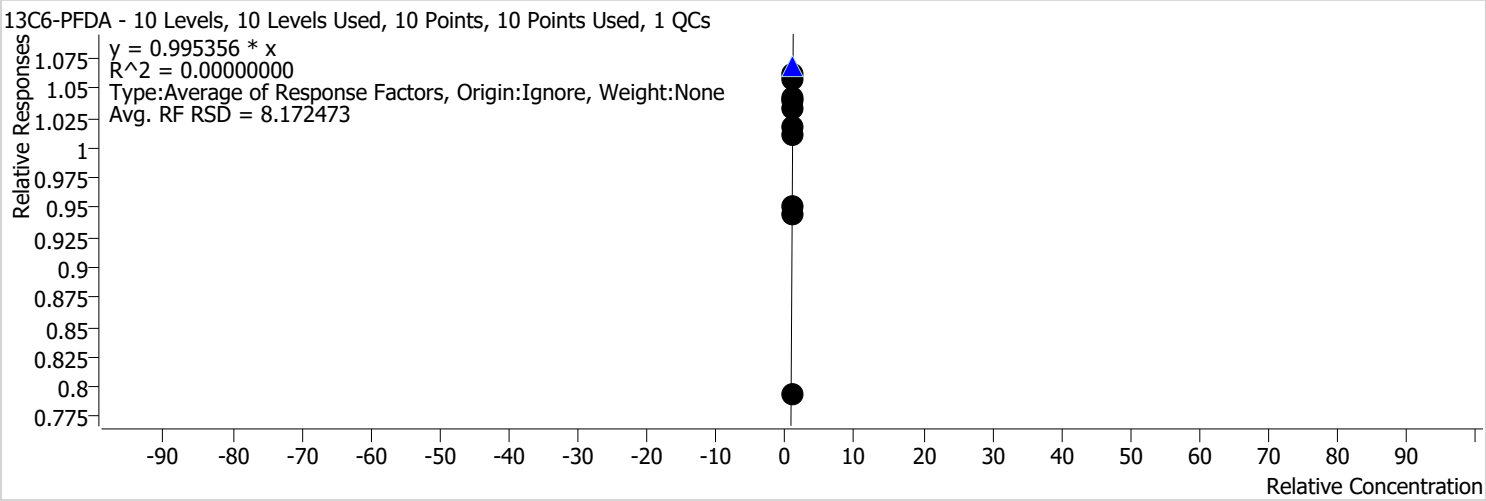
Quant Batch Version	10.2	**Quant Report Version**	10.2

13C6-PFDA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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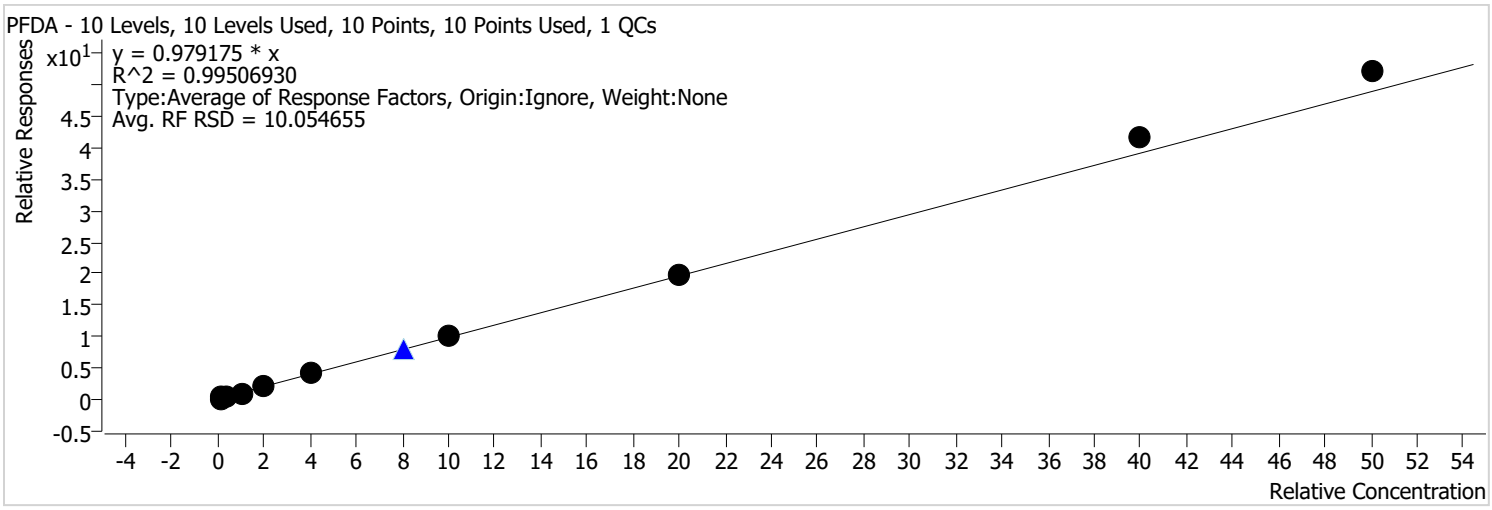
D:\MassHunter\Data\MAY2024\052824\CALA_1633_052824.d	Calibration	10	x	68136	1.2500	0.9519
D:\MassHunter\Data\MAY2024\052824\CAL2_1633_052824.d	Calibration	2	x	80576	1.2500	1.0172
D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	64023	1.2500	0.7943
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	78256	1.2500	0.9443
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	91837	1.2500	1.0340
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	83741	1.2500	1.0401
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	82404	1.2500	1.0573
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8	x	79344	1.2500	1.0427
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9	x	71390	1.2500	1.0108
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	71841	1.2500	1.0679

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:21 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/29/2024 8:19 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

PFDA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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D:\MassHunter\Data\MAY2024\052824\CAL2_1633_052824.d	Calibration	2	x	11906	0.2000	0.9235
D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	29292	0.5000	1.1438
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	75173	1.2500	0.9606
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	174851	2.5000	0.9520
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	329878	5.0000	0.9848
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	558098	10.0000	0.9711
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	818138	12.5000	0.9928
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8	x	1573186	25.0000	0.9914
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9	x	2970314	50.0000	1.0402
D:\MassHunter\Data\MAY2024\052824\CALA_1633_052824.d	Calibration	10	x	3550842	62.5000	1.0423

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:21 AM	**Reporter Name**	CONTEST\QQQ5
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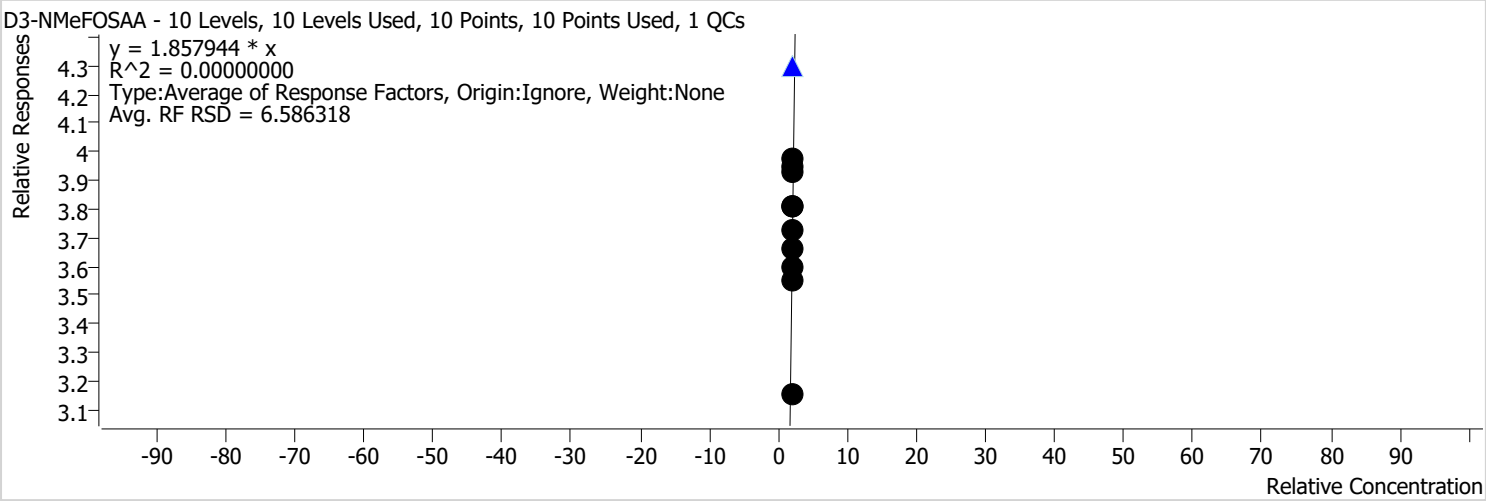
Quant Batch Version	10.2	**Quant Report Version**	10.2

D3-NMeFOSAA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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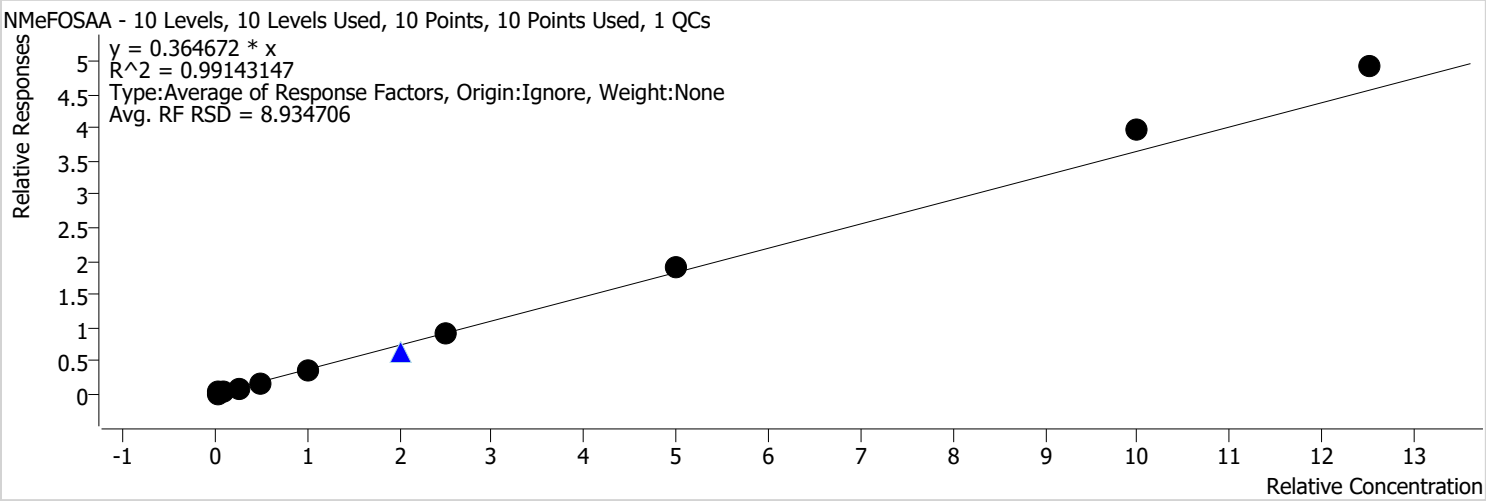
D:\MassHunter\Data\MAY2024\052824\CAL2_1633_052824.d	Calibration	2	x	165734	5.0000	1.9020
D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	136995	5.0000	1.5782
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	169661	5.0000	1.8327
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	190384	5.0000	1.9649
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	169079	5.0000	1.8613
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	165268	5.0000	1.9750
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8	x	155416	5.0000	1.9029
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9	x	136009	5.0000	1.7767
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	157569	5.0000	2.1473

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:21 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/29/2024 8:19 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

NMeFOSAA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	5638	0.5000	0.4115
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	14953	1.2500	0.3525
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	31665	2.5000	0.3326
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	60726	5.0000	0.3592
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	99412	10.0000	0.3155
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	152412	12.5000	0.3689
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8	x	297279	25.0000	0.3826
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9	x	542462	50.0000	0.3988
D:\MassHunter\Data\MAY2024\052824\CALA_1633_052824.d	Calibration	10	x	649807	62.5000	0.3931

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:21 AM	**Reporter Name**	CONTEST\QQQ5
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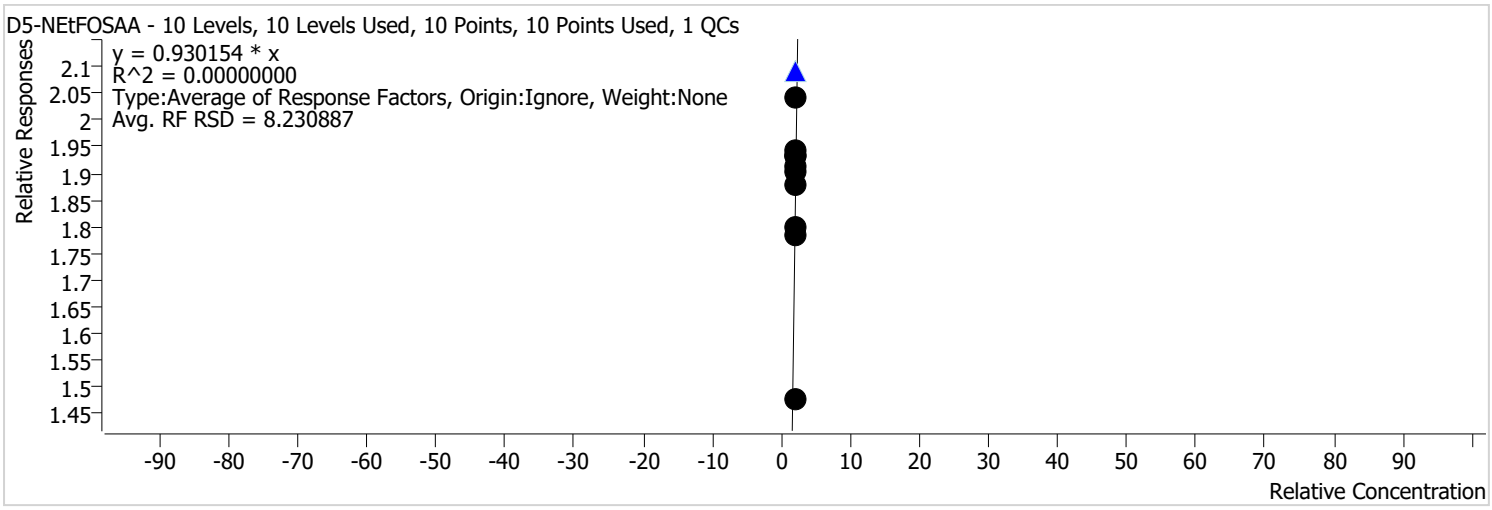
Quant Batch Version	10.2	**Quant Report Version**	10.2

D5-NEtFOSAA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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D:\MassHunter\Data\MAY2024\052824\CAL2_1633_052824.d	Calibration	2	x	78257	5.0000	0.8981
D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	64174	5.0000	0.7393
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	82610	5.0000	0.8923
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	92585	5.0000	0.9556
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	85287	5.0000	0.9389
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	85452	5.0000	1.0212
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8	x	79331	5.0000	0.9713
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9	x	72757	5.0000	0.9504
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	76644	5.0000	1.0445

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:21 AM	**Reporter Name**	CONTEST\QQQ5
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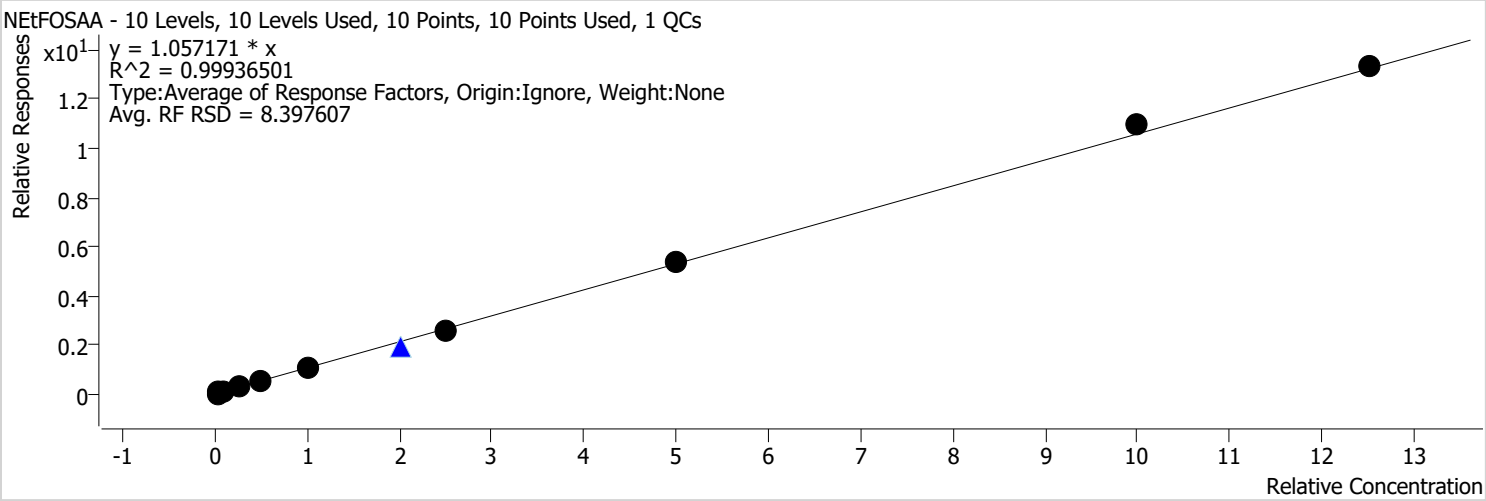
Quant Batch Version	10.2	**Quant Report Version**	10.2

NEtFOSAA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\MassHunter\Data\MAY2024\052824\CAL1_1633_052824.d	Calibration	1	x	1426	0.1000	0.8545
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D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	7805	0.5000	1.2162
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	21777	1.2500	1.0545
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	48277	2.5000	1.0429
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	88560	5.0000	1.0384
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	143580	10.0000	0.9367
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	220659	12.5000	1.0329
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8	x	427794	25.0000	1.0785
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9	x	793814	50.0000	1.0911
D:\MassHunter\Data\MAY2024\052824\CALA_1633_052824.d	Calibration	10	x	945479	62.5000	1.0637

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:21 AM	**Reporter Name**	CONTEST\QQQ5
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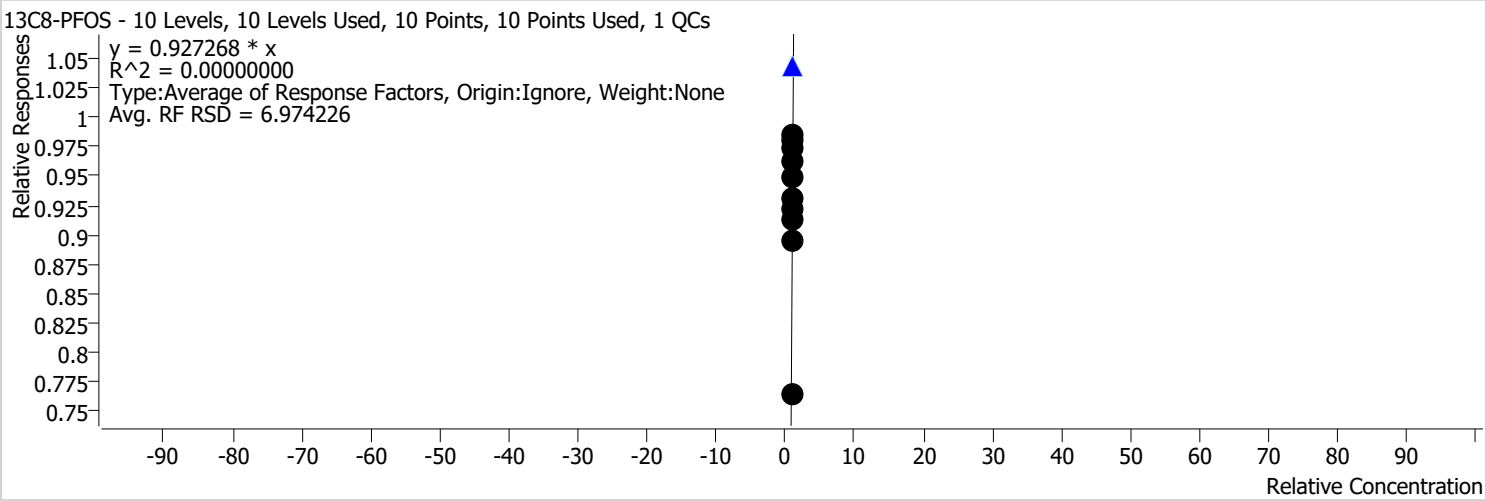
Quant Batch Version	10.2	**Quant Report Version**	10.2

13C8-PFOS



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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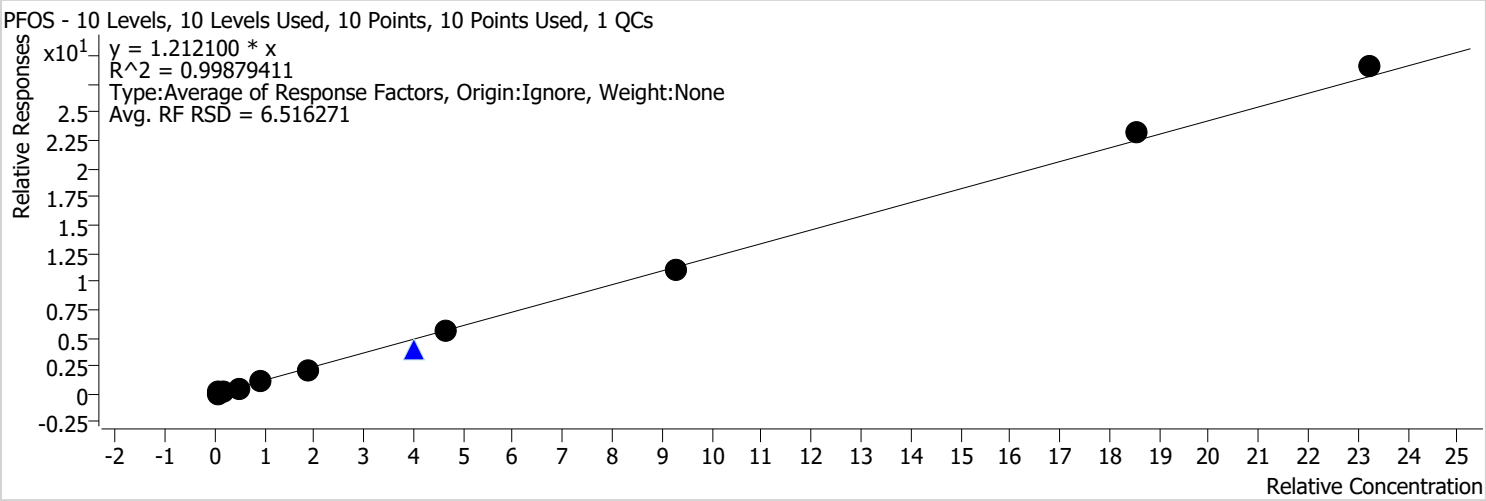
D:\MassHunter\Data\MAY2024\052824\CALA_1633_052824.d	Calibration	10	x	35348	2.5000	0.9616
D:\MassHunter\Data\MAY2024\052824\CAL2_1633_052824.d	Calibration	2	x	39767	2.5000	0.9128
D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	33186	2.5000	0.7646
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	41434	2.5000	0.8951
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	45090	2.5000	0.9307
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	41829	2.5000	0.9210
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	41225	2.5000	0.9853
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8	x	40045	2.5000	0.9806
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9	x	36306	2.5000	0.9485
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	38255	2.5000	1.0427

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:21 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/29/2024 8:19 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

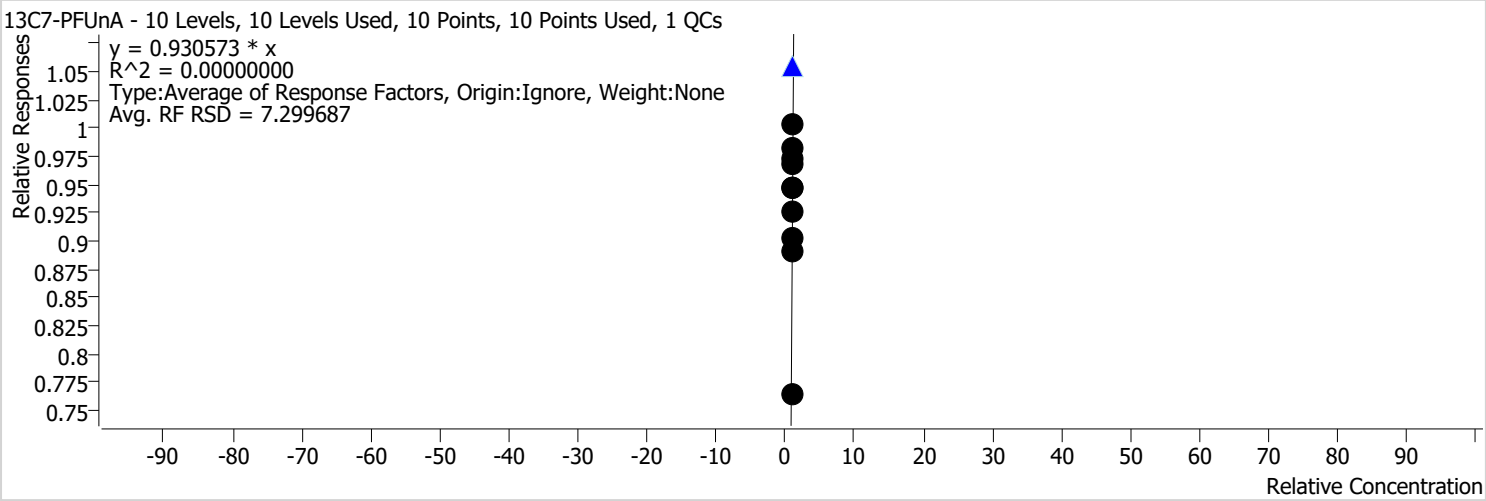
PFOS



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\MassHunter\Data\MAY2024\052824\CAL1_1633_052824.d	Calibration	1	x	1742	0.0928	1.1188
D:\MassHunter\Data\MAY2024\052824\CAL2_1633_052824.d	Calibration	2	x	3782	0.1856	1.2809
D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	8477	0.4640	1.3763
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	21440	1.1600	1.1152
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	48802	2.3200	1.1663
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	91622	4.6400	1.1802
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	155178	10.0000	1.0141
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	228657	11.6000	1.1954
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8	x	443082	23.2000	1.1923
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9	x	839291	46.4000	1.2455
D:\MassHunter\Data\MAY2024\052824\CALA_1633_052824.d	Calibration	10	x	1025181	58.0000	1.2501

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:21 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/29/2024 8:19 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

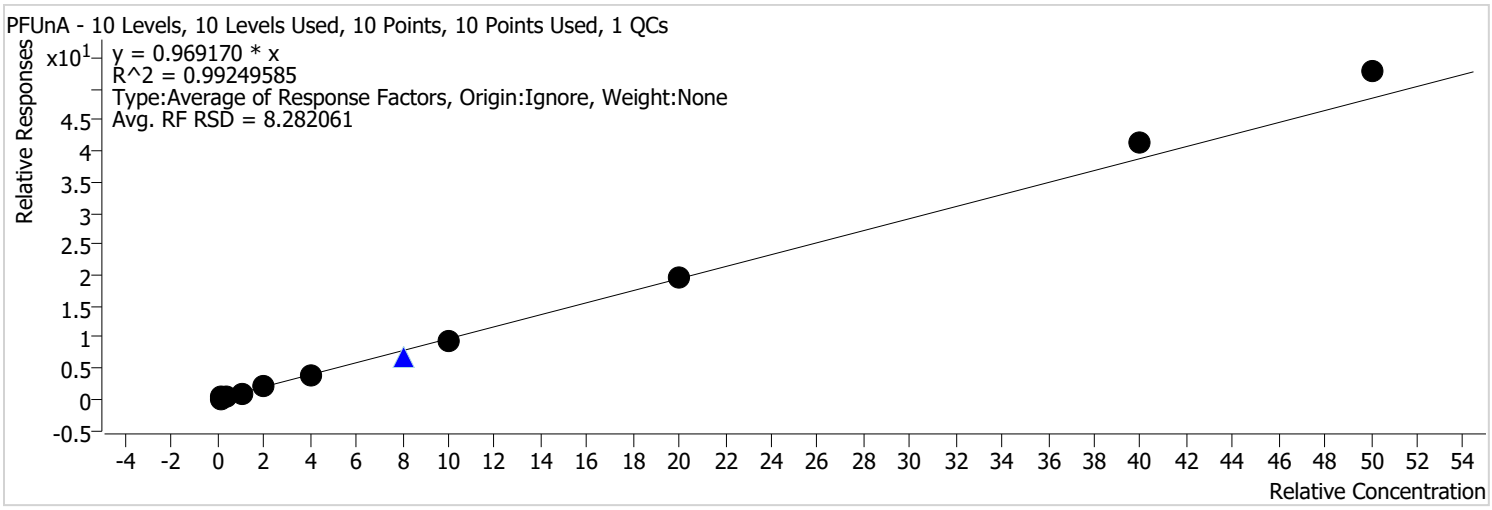
13C7-PFUnA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\MassHunter\Data\MAY2024\052824\CAL1_1633_052824.d	Calibration	1	x	76268	1.2500	0.9820
D:\MassHunter\Data\MAY2024\052824\CALA_1633_052824.d	Calibration	10	x	63716	1.2500	0.8901
D:\MassHunter\Data\MAY2024\052824\CAL2_1633_052824.d	Calibration	2	x	73369	1.2500	0.9262
D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	61671	1.2500	0.7651
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	74875	1.2500	0.9035
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	84109	1.2500	0.9470
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	78016	1.2500	0.9690
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	78197	1.2500	1.0033
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8	x	74063	1.2500	0.9733
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9	x	66834	1.2500	0.9463
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	70895	1.2500	1.0538

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:21 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/29/2024 8:19 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

PFUnA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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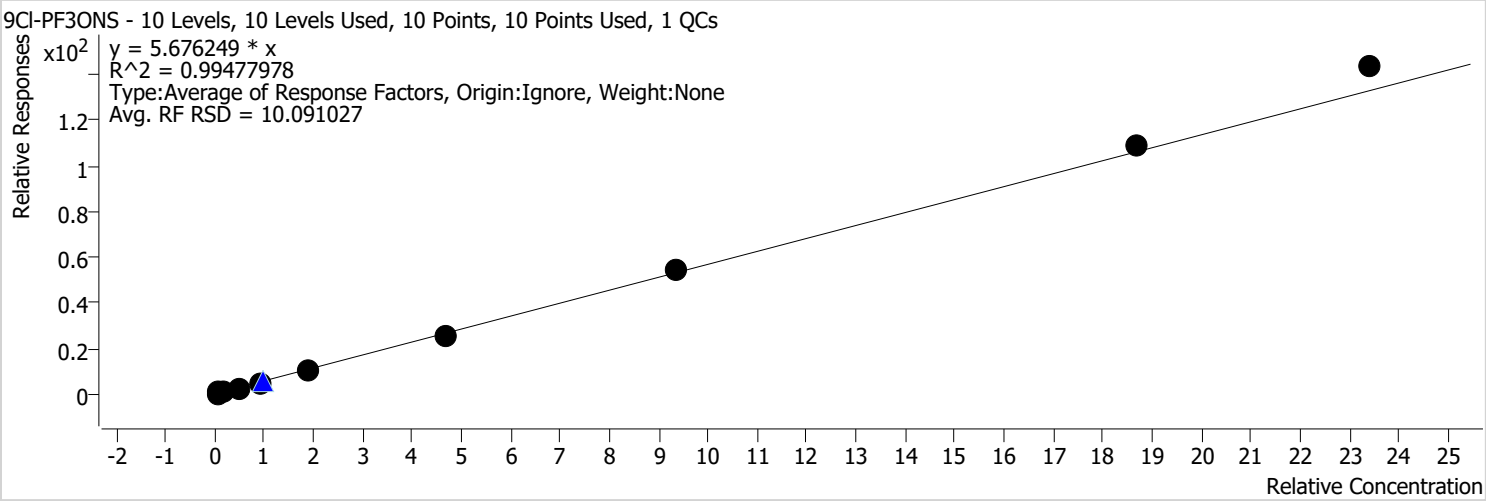
D:\MassHunter\Data\MAY2024\052824\CAL2_1633_052824.d	Calibration	2	x	11248	0.2000	0.9582
D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	26959	0.5000	1.0929
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	69629	1.2500	0.9299
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	161857	2.5000	0.9622
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	298870	5.0000	0.9577
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	469753	10.0000	0.8283
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	731167	12.5000	0.9350
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8	x	1436588	25.0000	0.9698
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9	x	2755847	50.0000	1.0309
D:\MassHunter\Data\MAY2024\052824\CALA_1633_052824.d	Calibration	10	x	3360577	62.5000	1.0549

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:21 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/29/2024 8:19 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

9Cl-PF3ONS



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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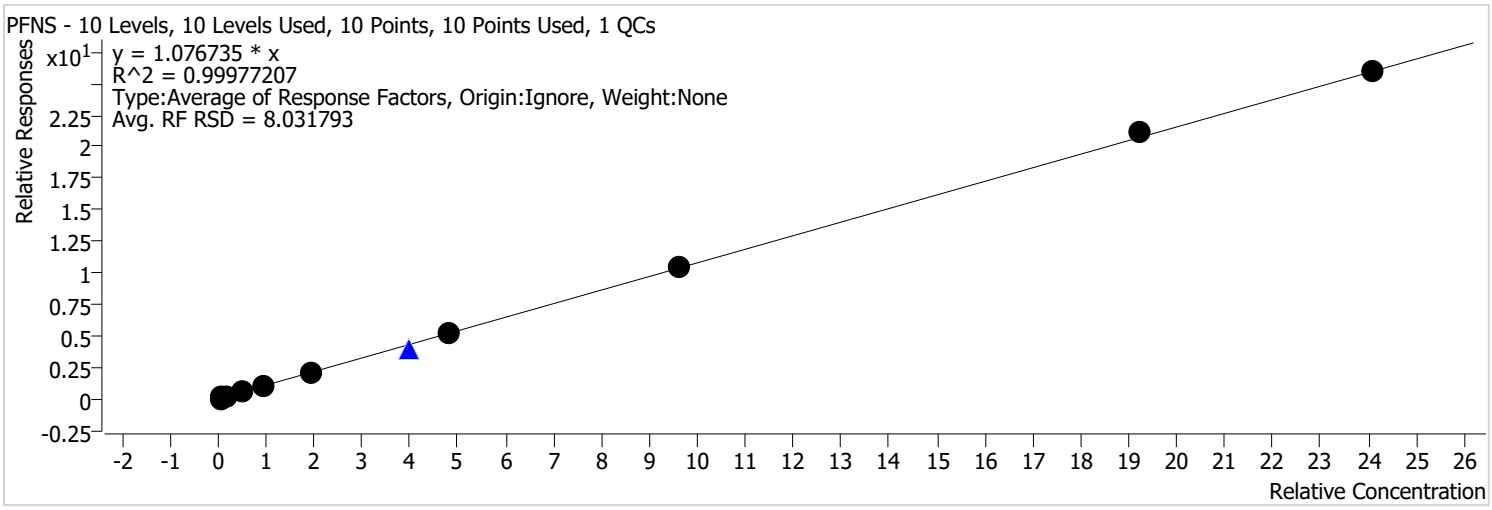
D:\MassHunter\Data\MAY2024\052824\CAL2_1633_052824.d	Calibration	2	x	82859	0.7480	5.7804
D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	193747	1.8700	6.6702
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	503645	4.6750	5.7182
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	1014338	9.3500	5.2792
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	883305	10.0000	5.2286
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	2037394	18.7000	5.6618
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	4903639	46.7500	5.4090
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8	x	9134088	93.5000	5.8179
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9	x	17126767	187.0000	5.8345
D:\MassHunter\Data\MAY2024\052824\CALA_1633_052824.d	Calibration	10	x	20608822	233.7500	6.1287

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:21 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/29/2024 8:19 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

PFNS



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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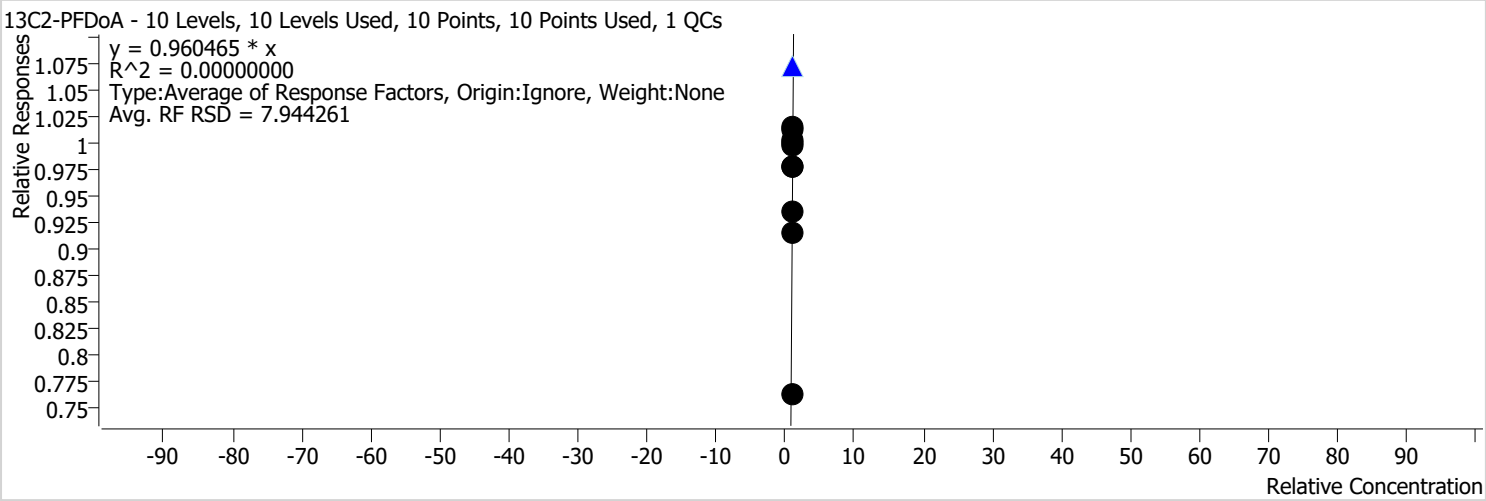
D:\MassHunter\Data\MAY2024\052824\CAL2_1633_052824.d	Calibration	2	x	3355	0.1924	1.0963
D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	8015	0.4810	1.2552
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	20480	1.2030	1.0272
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	46243	2.4050	1.0661
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	86731	4.8100	1.0777
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	154938	10.0000	1.0125
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	216027	12.0250	1.0894
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8	x	416843	24.0500	1.0821
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9	x	767428	48.1000	1.0986
D:\MassHunter\Data\MAY2024\052824\CALA_1633_052824.d	Calibration	10	x	915139	60.1250	1.0765

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:21 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/29/2024 8:19 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

13C2-PFDoA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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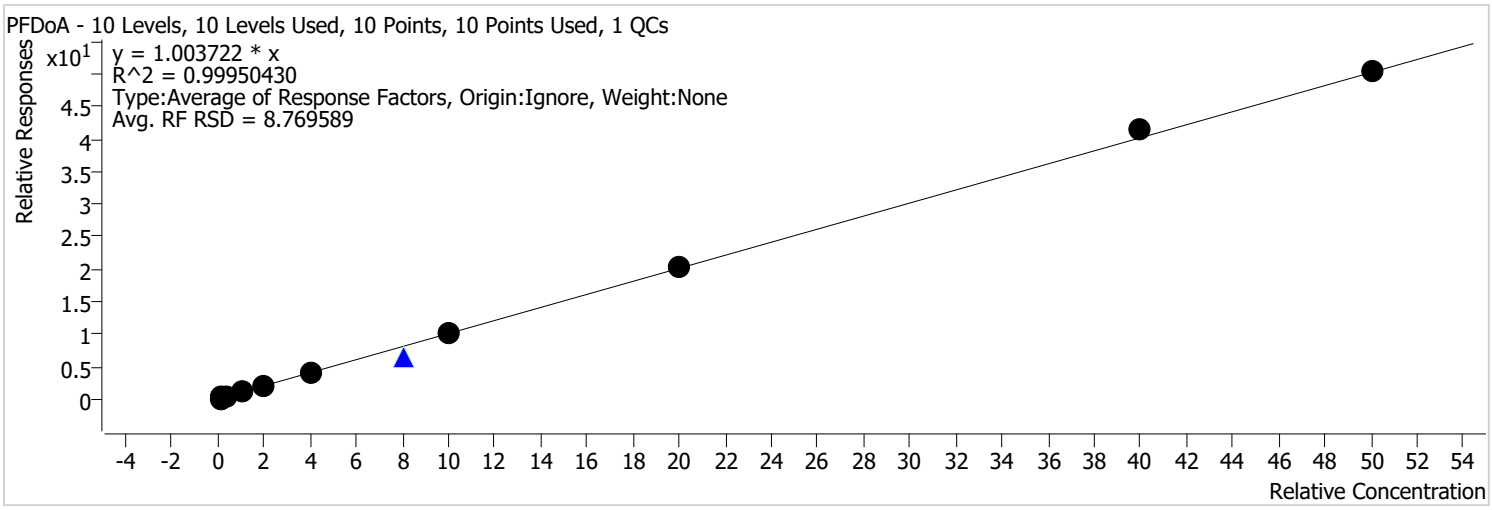
D:\MassHunter\Data\MAY2024\052824\CALA_1633_052824.d	Calibration	10	x	71460	1.2500	0.9983
D:\MassHunter\Data\MAY2024\052824\CAL2_1633_052824.d	Calibration	2	x	72570	1.2500	0.9161
D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	61625	1.2500	0.7645
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	77481	1.2500	0.9349
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	89080	1.2500	1.0029
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	78815	1.2500	0.9789
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	78921	1.2500	1.0126
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8	x	76182	1.2500	1.0012
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9	x	71751	1.2500	1.0159
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	72134	1.2500	1.0723

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:21 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/29/2024 8:19 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

PFDoA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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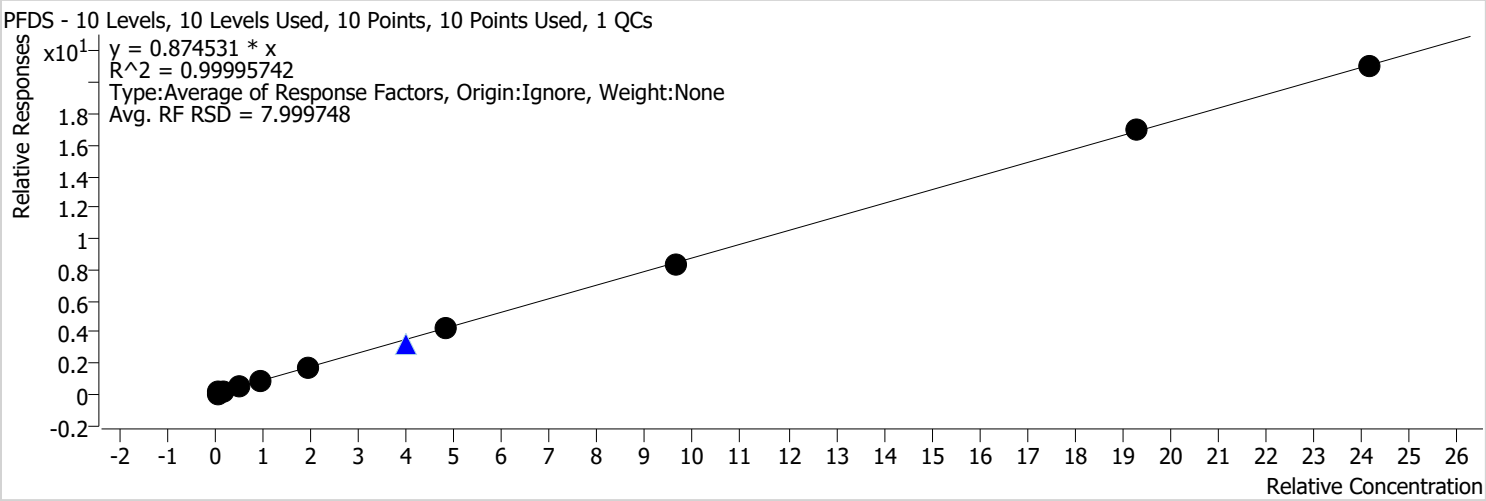
D:\MassHunter\Data\MAY2024\052824\CAL2_1633_052824.d	Calibration	2	x	11455	0.2000	0.9865
D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	29415	0.5000	1.1933
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	75866	1.2500	0.9792
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	172127	2.5000	0.9661
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	316719	5.0000	1.0046
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	475436	10.0000	0.8239
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	809709	12.5000	1.0260
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8	x	1541635	25.0000	1.0118
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9	x	2966667	50.0000	1.0337
D:\MassHunter\Data\MAY2024\052824\CALA_1633_052824.d	Calibration	10	x	3592880	62.5000	1.0056

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:21 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/29/2024 8:19 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

PFDS



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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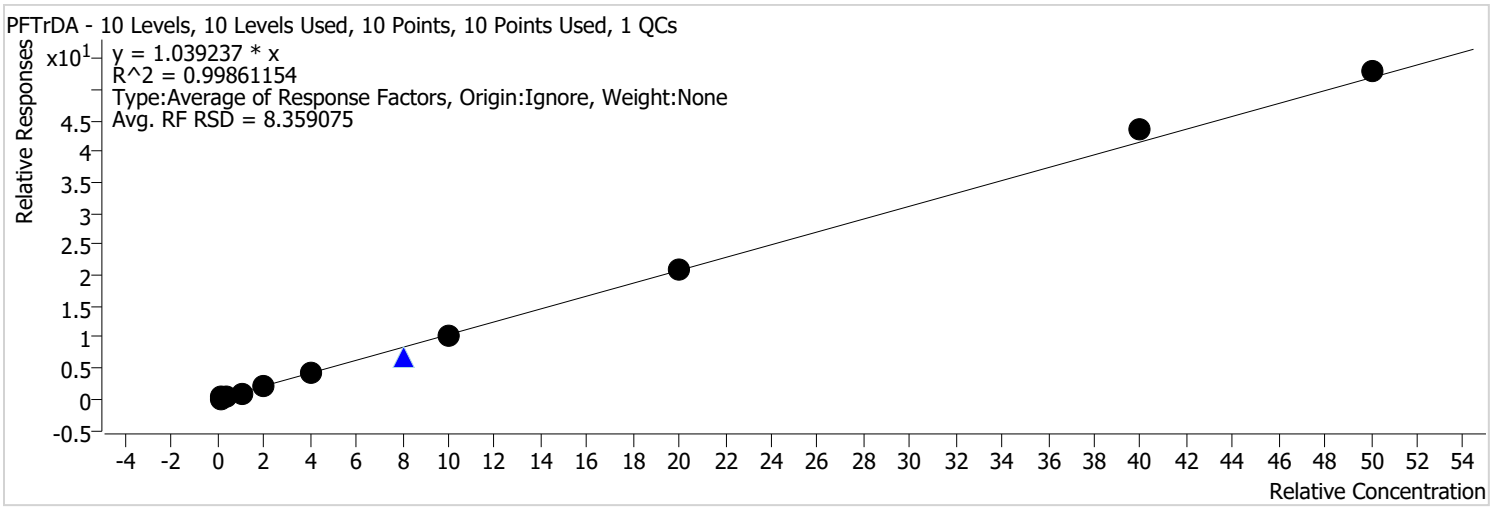
D:\MassHunter\Data\MAY2024\052824\CAL2_1633_052824.d	Calibration	2	x	2799	0.1930	0.9118
D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	6628	0.4825	1.0348
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	16689	1.2060	0.8350
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	37710	2.4130	0.8665
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	69596	4.8250	0.8621
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	120682	10.0000	0.7887
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	173800	12.0630	0.8737
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8	x	333602	24.1250	0.8633
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9	x	613544	48.2500	0.8756
D:\MassHunter\Data\MAY2024\052824\CALA_1633_052824.d	Calibration	10	x	742558	60.3130	0.8707

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:21 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/29/2024 8:19 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

PFTrDA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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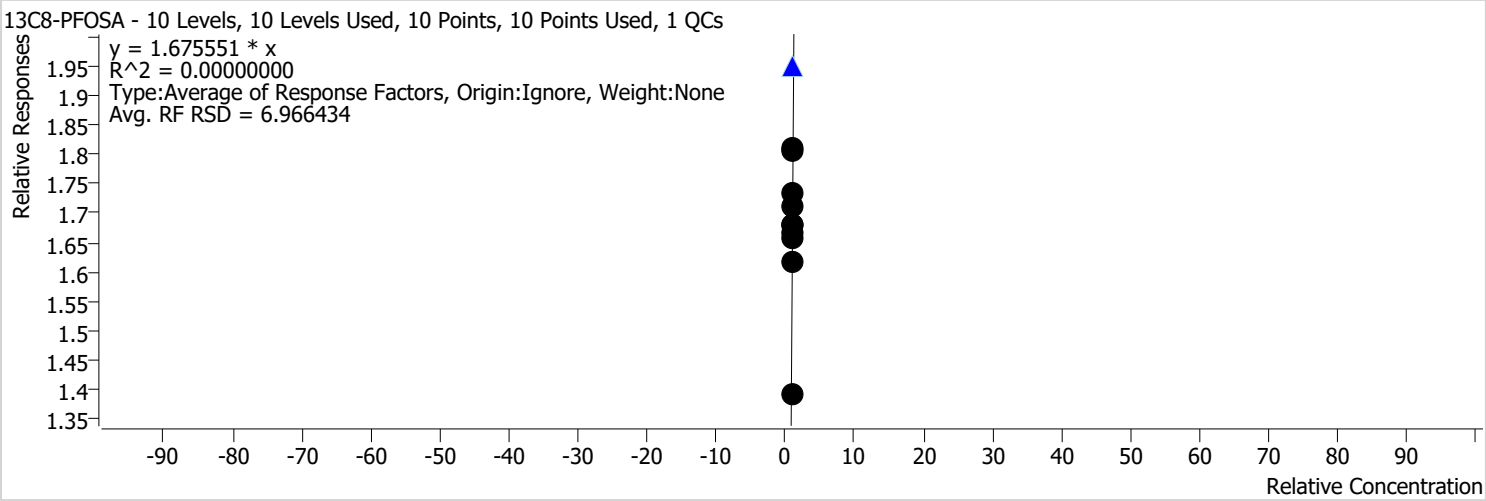
D:\MassHunter\Data\MAY2024\052824\CAL2_1633_052824.d	Calibration	2	x	11648	0.2000	1.0032
D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	30553	0.5000	1.2395
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	76439	1.2500	0.9866
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	178509	2.5000	1.0020
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	328703	5.0000	1.0426
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	487734	10.0000	0.8452
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	807274	12.5000	1.0229
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8	x	1598737	25.0000	1.0493
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9	x	3122058	50.0000	1.0878
D:\MassHunter\Data\MAY2024\052824\CALA_1633_052824.d	Calibration	10	x	3780815	62.5000	1.0582

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:21 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/29/2024 8:19 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

13C8-PFOSA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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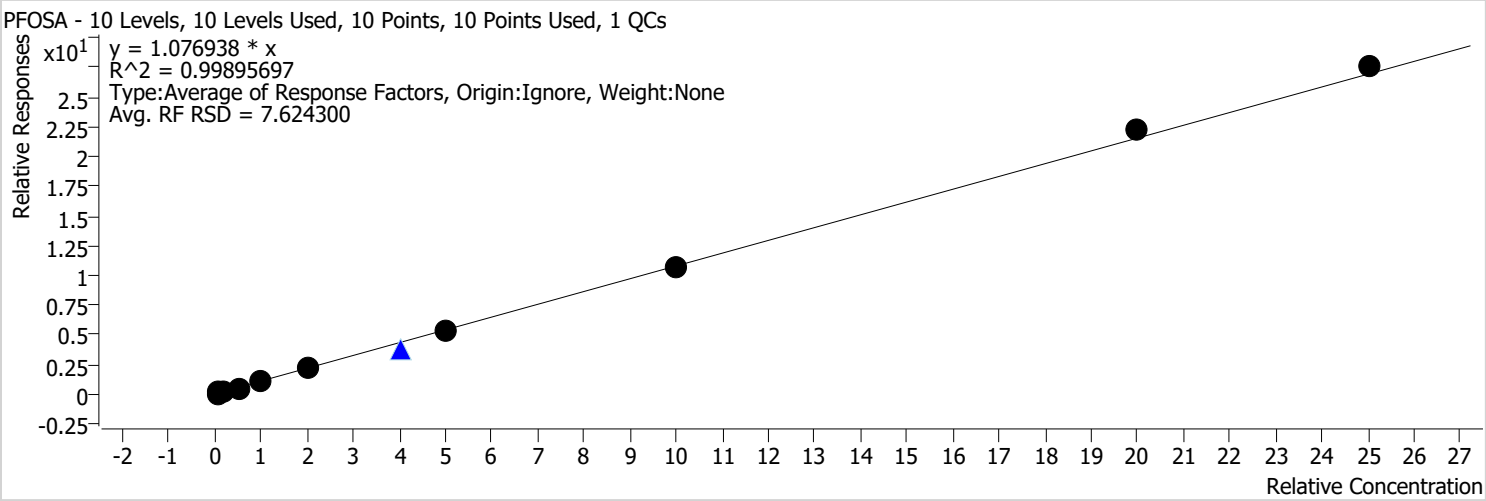
D:\MassHunter\Data\MAY2024\052824\CALA_1633_052824.d	Calibration	10	x	62897	2.5000	1.7111
D:\MassHunter\Data\MAY2024\052824\CAL2_1633_052824.d	Calibration	2	x	72197	2.5000	1.6571
D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	60503	2.5000	1.3940
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	74876	2.5000	1.6176
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	81434	2.5000	1.6809
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	76262	2.5000	1.6791
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	75753	2.5000	1.8106
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8	x	70765	2.5000	1.7328
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9	x	63822	2.5000	1.6674
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	71439	2.5000	1.9471

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:21 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/29/2024 8:19 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

PFOSA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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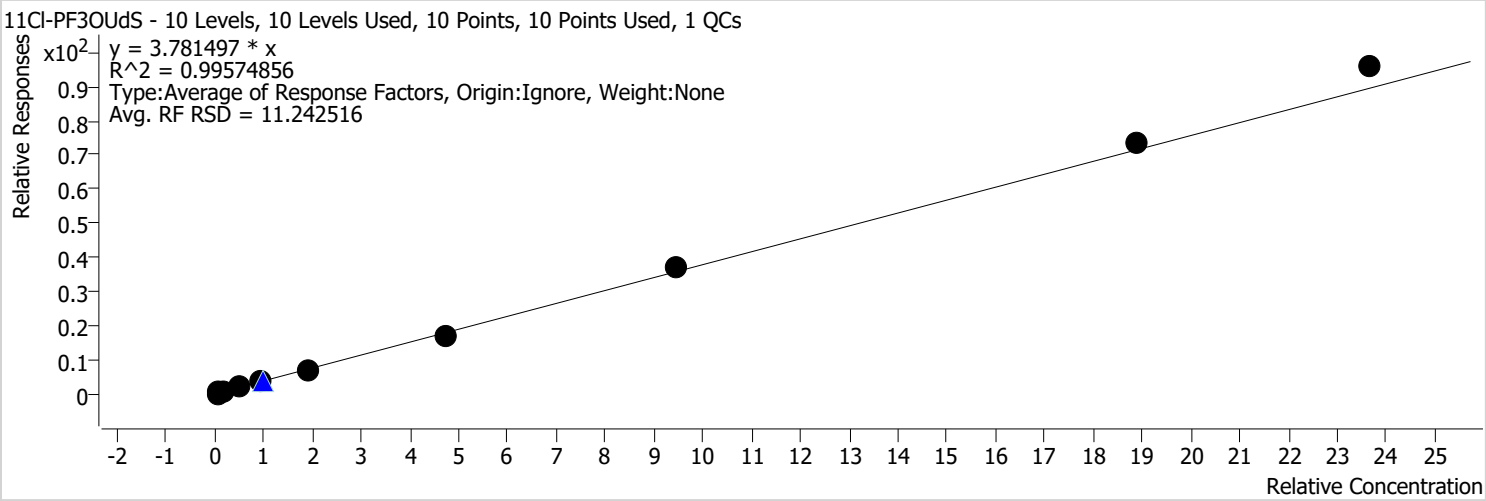
D:\MassHunter\Data\MAY2024\052824\CAL2_1633_052824.d	Calibration	2	x	6256	0.2000	1.0832
D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	15088	0.5000	1.2469
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	38548	1.2500	1.0297
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	85555	2.5000	1.0506
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	164620	5.0000	1.0793
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	269954	10.0000	0.9447
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	406492	12.5000	1.0732
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8	x	762039	25.0000	1.0769
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9	x	1423331	50.0000	1.1151
D:\MassHunter\Data\MAY2024\052824\CALA_1633_052824.d	Calibration	10	x	1731669	62.5000	1.1013

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:21 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/29/2024 8:19 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

11Cl-PF3OUdS



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\MassHunter\Data\MAY2024\052824\CAL1_1633_052824.d	Calibration	1	x	21742	0.3780	2.8567
D:\MassHunter\Data\MAY2024\052824\CAL2_1633_052824.d	Calibration	2	x	55629	0.7560	3.8397
D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	133562	1.8900	4.5495
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	339190	4.7250	3.8103
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	690360	9.4500	3.5550
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	595791	10.0000	3.5267
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	1377091	18.9000	3.7864
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	3299454	47.2500	3.6010
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8	x	6181458	94.5000	3.8956
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9	x	11481486	189.0000	3.8700
D:\MassHunter\Data\MAY2024\052824\CALA_1633_052824.d	Calibration	10	x	13767147	236.2500	4.0508

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:21 AM	**Reporter Name**	CONTEST\QQQ5
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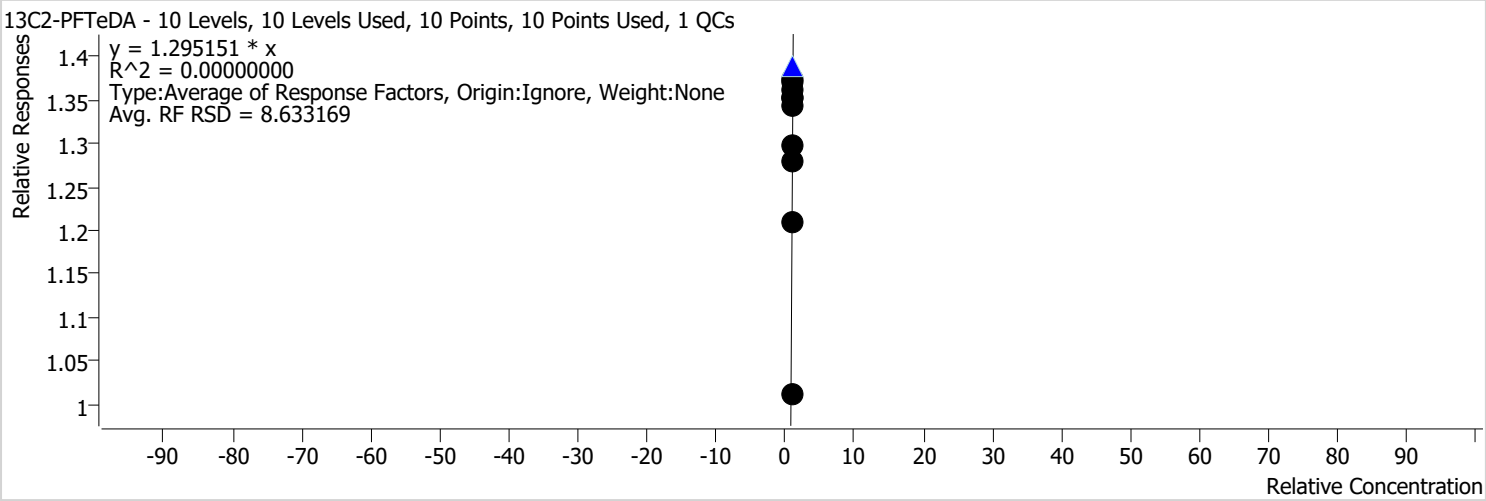
Quant Batch Version	10.2	**Quant Report Version**	10.2

13C2-PFTeDA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\MassHunter\Data\MAY2024\052824\CAL1_1633_052824.d	Calibration	1	x	104958	1.2500	1.3514
D:\MassHunter\Data\MAY2024\052824\CALA_1633_052824.d	Calibration	10	x	98138	1.2500	1.3710
D:\MassHunter\Data\MAY2024\052824\CAL2_1633_052824.d	Calibration	2	x	101377	1.2500	1.2797
D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	81613	1.2500	1.0125
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	100189	1.2500	1.2090
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	121002	1.2500	1.3623
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	104528	1.2500	1.2983
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	105409	1.2500	1.3524
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8	x	102137	1.2500	1.3422
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9	x	96948	1.2500	1.3727
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	93371	1.2500	1.3880

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:21 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/29/2024 8:19 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

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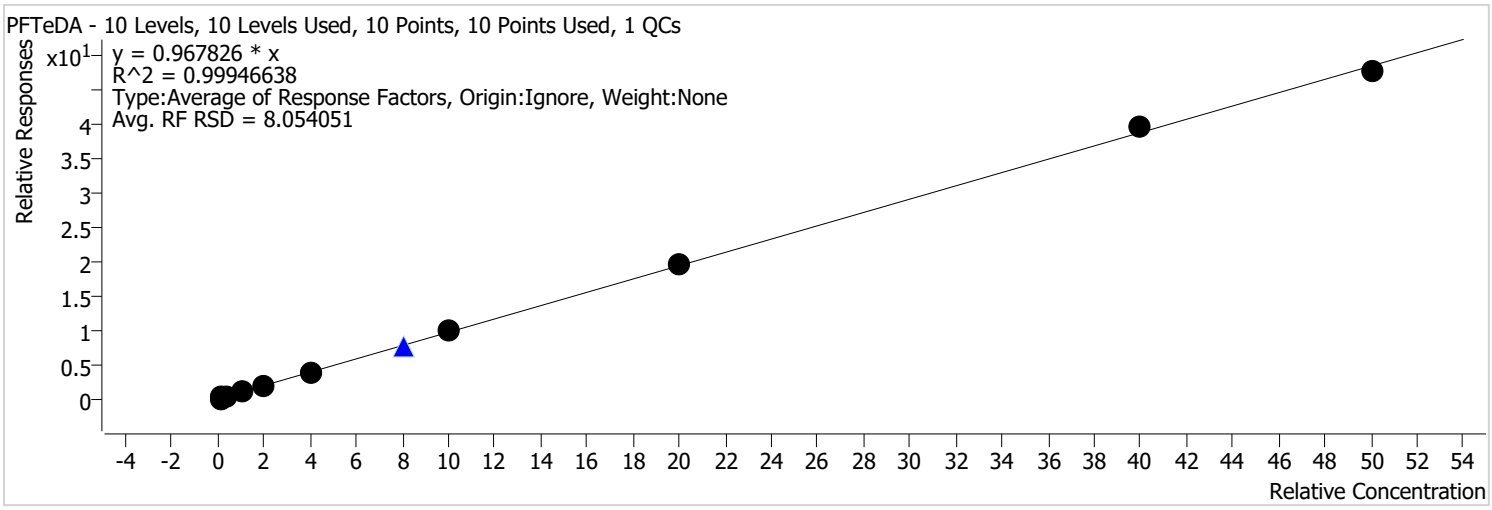

Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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D:\MassHunter\Data\MAY2024\052824\CAL2_1633_052824.d	Calibration	2	x	14873	0.2000	0.9169
D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	37384	0.5000	1.1452
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	96176	1.2500	0.9599
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	231081	2.5000	0.9549
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	408891	5.0000	0.9779
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	706955	10.0000	0.9464
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	1028699	12.5000	0.9759
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8	x	2001456	25.0000	0.9798
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9	x	3833168	50.0000	0.9885
D:\MassHunter\Data\MAY2024\052824\CALA_1633_052824.d	Calibration	10	x	4664893	62.5000	0.9507

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:21 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/29/2024 8:19 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

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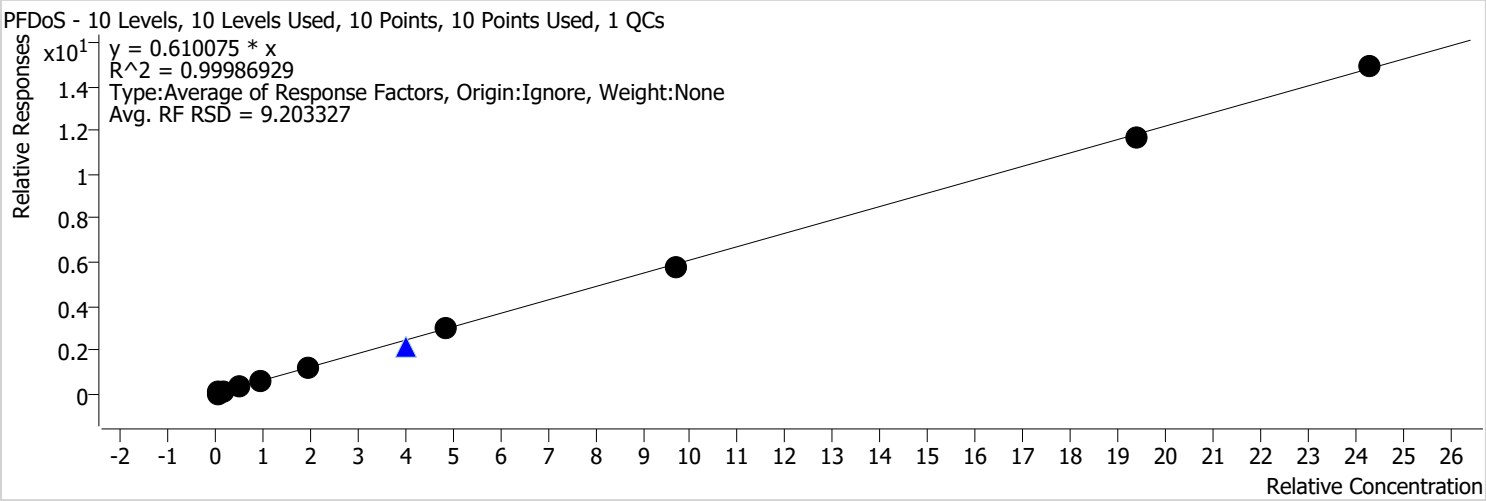

Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	4800	0.4850	0.7456
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	11670	1.2130	0.5805
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	26602	2.4250	0.6082
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	49708	4.8500	0.6126
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	83166	10.0000	0.5435
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	123394	12.1250	0.6172
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8	x	233289	24.2500	0.6006
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9	x	425328	48.5000	0.6039
D:\MassHunter\Data\MAY2024\052824\CALA_1633_052824.d	Calibration	10	x	526322	60.6250	0.6140

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:21 AM	**Reporter Name**	CONTEST\QQQ5
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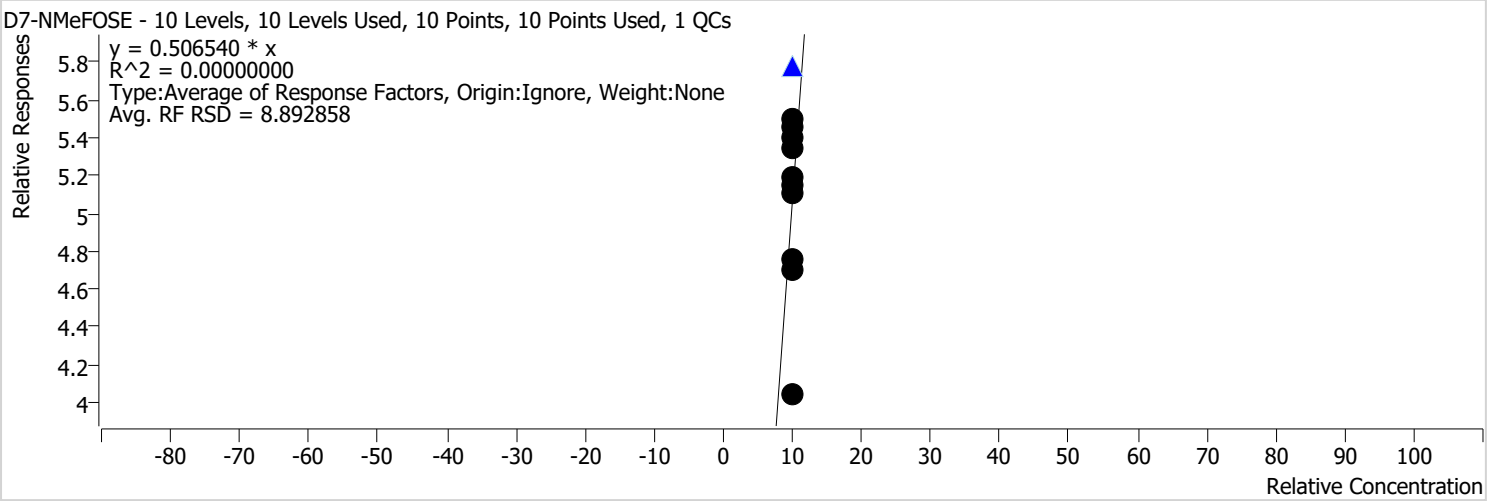
Quant Batch Version	10.2	**Quant Report Version**	10.2

D7-NMeFOSE



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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D:\MassHunter\Data\MAY2024\052824\CALA_1633_052824.d	Calibration	10	x	202114	25.0000	0.5498
D:\MassHunter\Data\MAY2024\052824\CAL2_1633_052824.d	Calibration	2	x	207109	25.0000	0.4754
D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	175662	25.0000	0.4047
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	217469	25.0000	0.4698
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	249512	25.0000	0.5150
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	232075	25.0000	0.5110
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	228536	25.0000	0.5462
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8	x	218331	25.0000	0.5346
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9	x	206467	25.0000	0.5394
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	211804	25.0000	0.5773

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:21 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/29/2024 8:19 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

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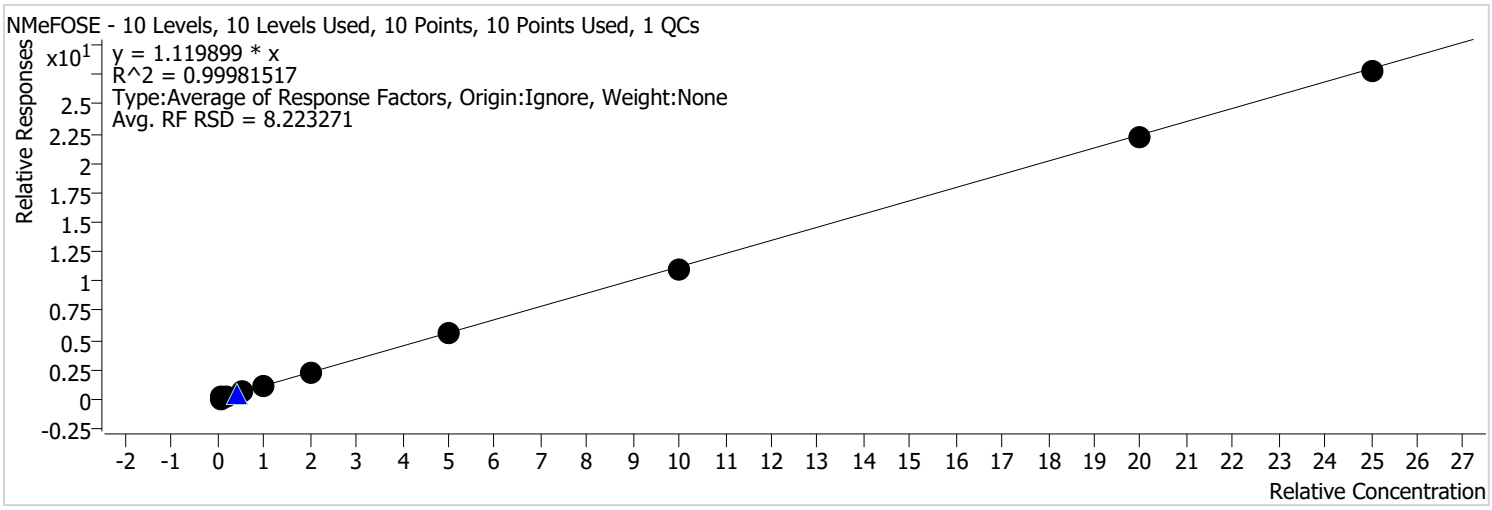

Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	47835	5.0000	1.3616
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	87383	10.0000	1.0314
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	116878	12.5000	1.0749
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	280203	25.0000	1.1230
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	518057	50.0000	1.1161
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	1274201	125.0000	1.1151
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8	x	2406139	250.0000	1.1021
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9	x	4574287	500.0000	1.1078
D:\MassHunter\Data\MAY2024\052824\CALA_1633_052824.d	Calibration	10	x	5603239	625.0000	1.1089

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:21 AM	**Reporter Name**	CONTEST\QQQ5
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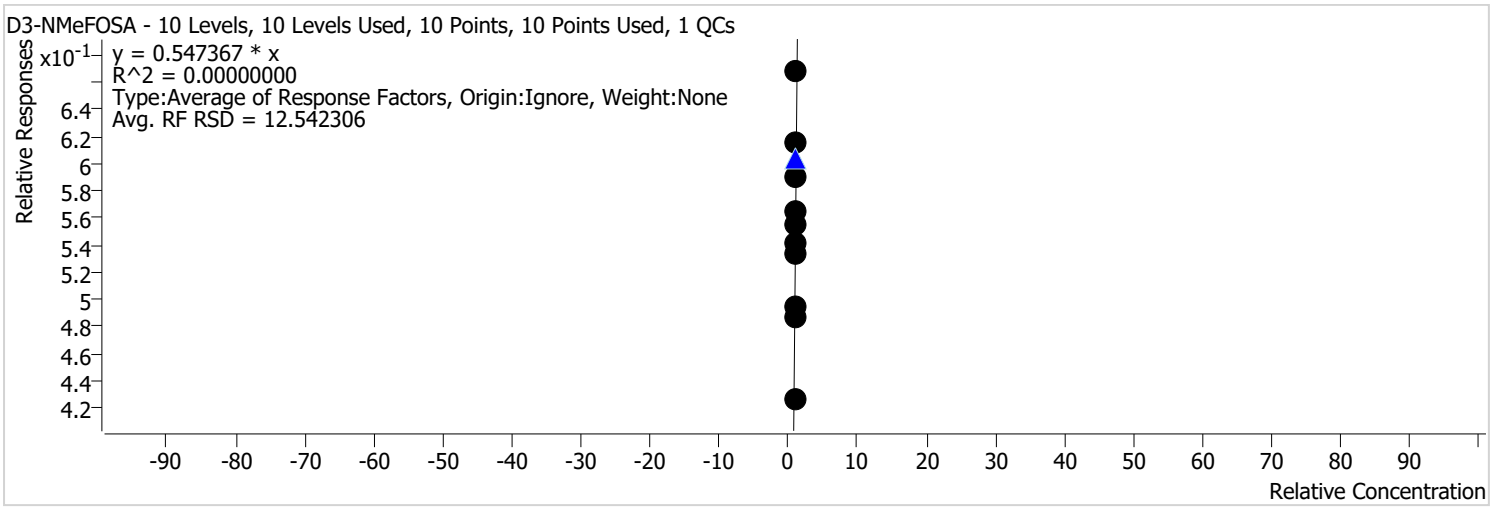
Quant Batch Version	10.2	**Quant Report Version**	10.2

D3-NMeFOSA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\MassHunter\Data\MAY2024\052824\CAL1_1633_052824.d	Calibration	1	x	23903	2.5000	0.5542
D:\MassHunter\Data\MAY2024\052824\CALA_1633_052824.d	Calibration	10	x	24526	2.5000	0.6672
D:\MassHunter\Data\MAY2024\052824\CAL2_1633_052824.d	Calibration	2	x	21224	2.5000	0.4872
D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	18519	2.5000	0.4267
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	22891	2.5000	0.4945
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	26193	2.5000	0.5407
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	24194	2.5000	0.5327
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	24678	2.5000	0.5898
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8	x	23080	2.5000	0.5652
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9	x	23562	2.5000	0.6156
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	22137	2.5000	0.6034

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:21 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/29/2024 8:19 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

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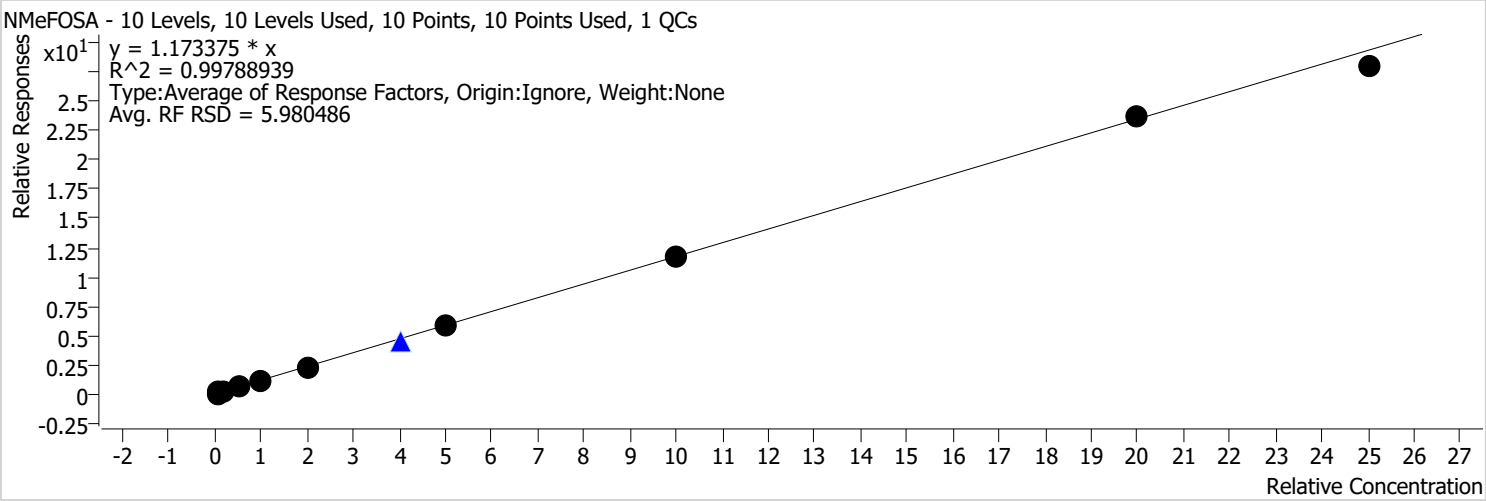

Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
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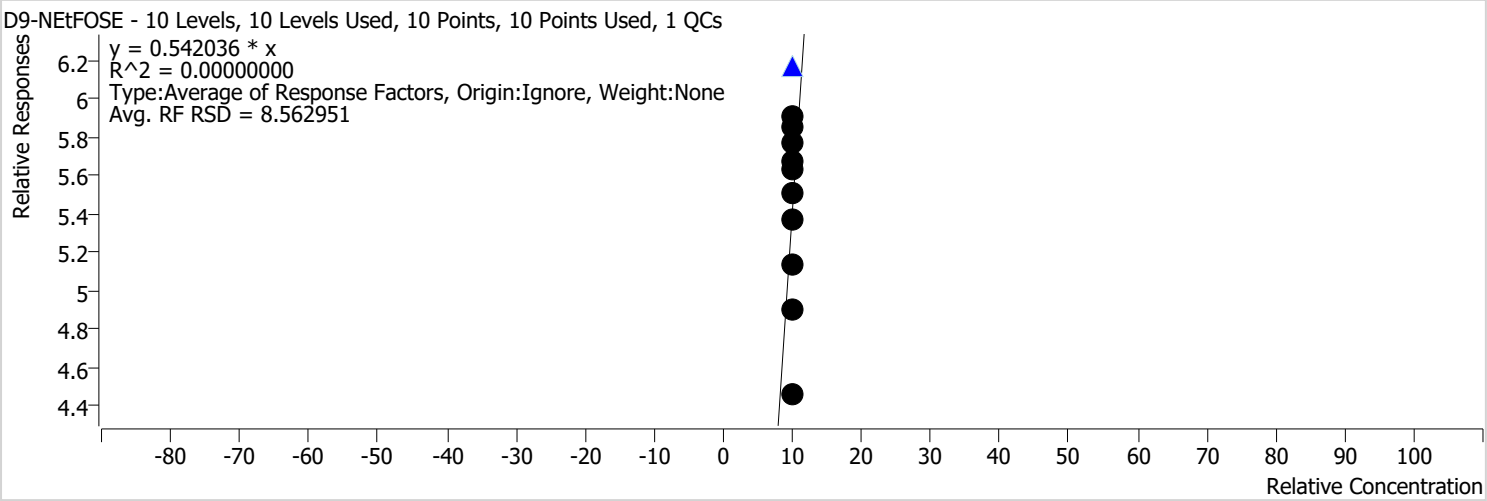
D:\MassHunter\Data\MAY2024\052824\CAL2_1633_052824.d	Calibration	2	x	1977	0.2000	1.1645
D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	5034	0.5000	1.3592
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	13207	1.2500	1.1539
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	29584	2.5000	1.1295
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	56584	5.0000	1.1694
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	98284	10.0000	1.1100
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	143867	12.5000	1.1659
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8	x	272100	25.0000	1.1789
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9	x	558563	50.0000	1.1853
D:\MassHunter\Data\MAY2024\052824\CALA_1633_052824.d	Calibration	10	x	684753	62.5000	1.1168

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:21 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/29/2024 8:19 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

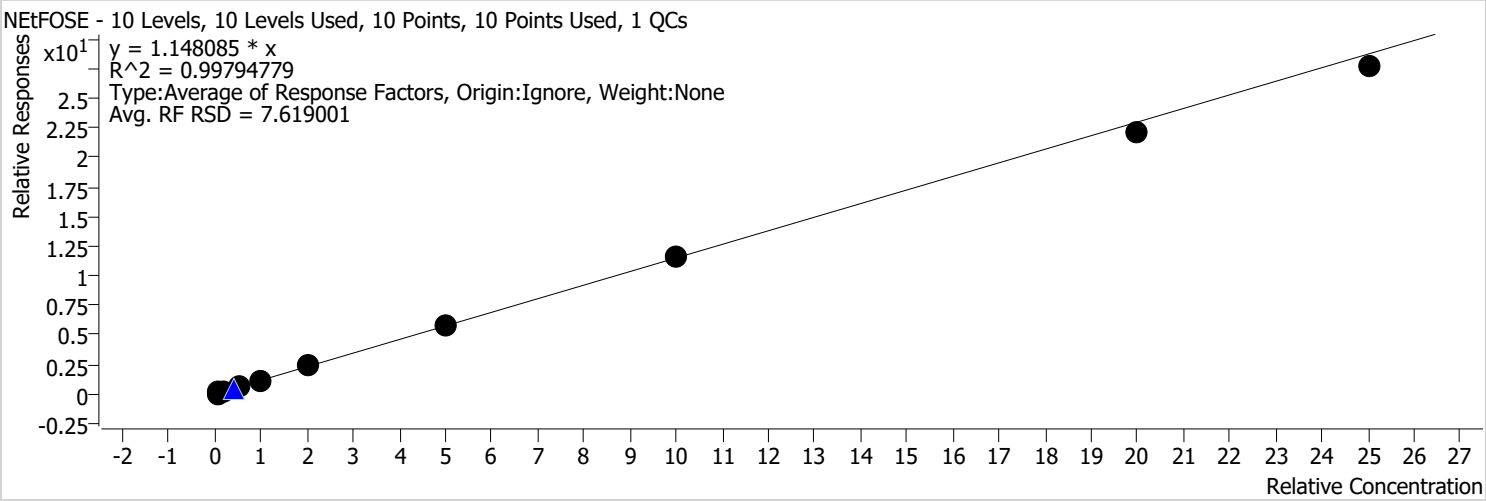
D9-NEtFOSE



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\MassHunter\Data\MAY2024\052824\CAL1_1633_052824.d	Calibration	1	x	244872	25.0000	0.5677
D:\MassHunter\Data\MAY2024\052824\CALA_1633_052824.d	Calibration	10	x	215260	25.0000	0.5856
D:\MassHunter\Data\MAY2024\052824\CAL2_1633_052824.d	Calibration	2	x	213398	25.0000	0.4898
D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	193632	25.0000	0.4461
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	237740	25.0000	0.5136
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	266672	25.0000	0.5505
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	243809	25.0000	0.5368
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	247037	25.0000	0.5904
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8	x	229816	25.0000	0.5628
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9	x	220877	25.0000	0.5771
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	226109	25.0000	0.6163

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:21 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/29/2024 8:19 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

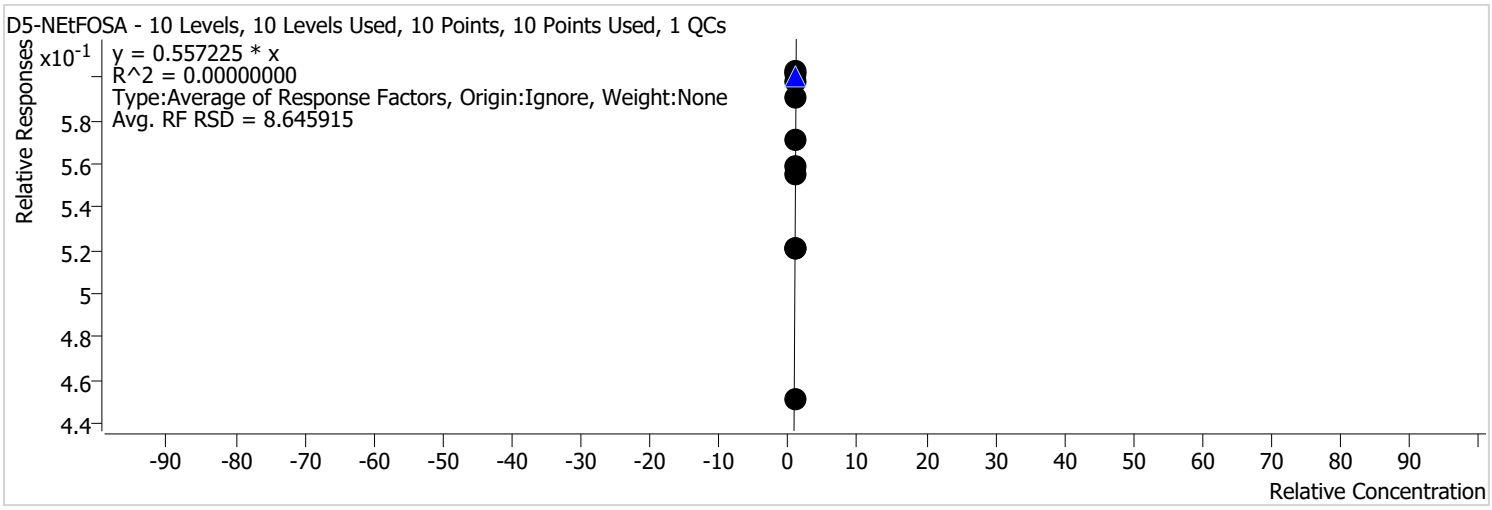
NEtFOSE



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\MassHunter\Data\MAY2024\052824\CAL1_1633_052824.d	Calibration	1	x	9980	1.0000	1.0189
D:\MassHunter\Data\MAY2024\052824\CAL2_1633_052824.d	Calibration	2	x	19410	2.0000	1.1370
D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	52658	5.0000	1.3598
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	98038	10.0000	1.0840
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	130819	12.5000	1.1005
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	308814	25.0000	1.1580
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	576220	50.0000	1.1817
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	1423078	125.0000	1.1521
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8	x	2668644	250.0000	1.1612
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9	x	4889899	500.0000	1.1069
D:\MassHunter\Data\MAY2024\052824\CALA_1633_052824.d	Calibration	10	x	5944920	625.0000	1.1047

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:21 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/29/2024 8:19 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

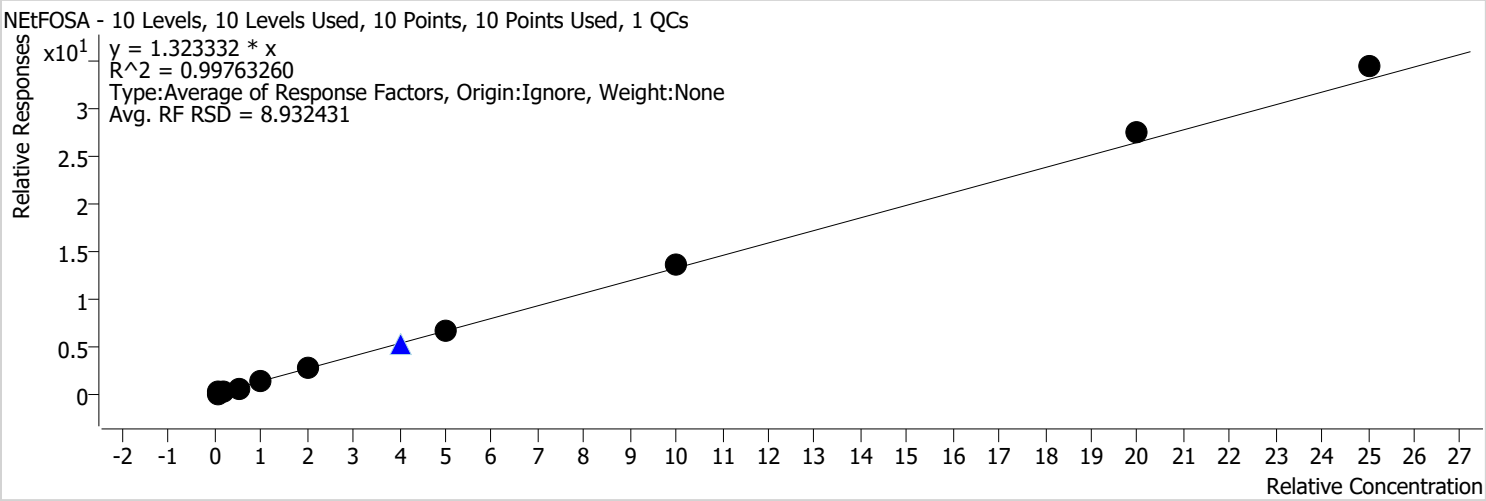
D5-NEtFOSA



Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\MassHunter\Data\MAY2024\052824\CAL1_1633_052824.d	Calibration	1	x	25801	2.5000	0.5982
D:\MassHunter\Data\MAY2024\052824\CALA_1633_052824.d	Calibration	10	x	22120	2.5000	0.6017
D:\MassHunter\Data\MAY2024\052824\CAL2_1633_052824.d	Calibration	2	x	22694	2.5000	0.5209
D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	19588	2.5000	0.4513
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	24125	2.5000	0.5212
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	26898	2.5000	0.5552
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	25387	2.5000	0.5589
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	25215	2.5000	0.6026
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8	x	23338	2.5000	0.5715
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9	x	22608	2.5000	0.5906
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	22058	2.5000	0.6012

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Analyst Name**	CONTEST\QQQ5
Report Time	5/29/2024 8:23:21 AM	**Reporter Name**	CONTEST\QQQ5
Last Calib Update	5/29/2024 8:19 AM	**Batch State**	Processed
Quant Batch Version	10.2	**Quant Report Version**	10.2

NEtFOSA



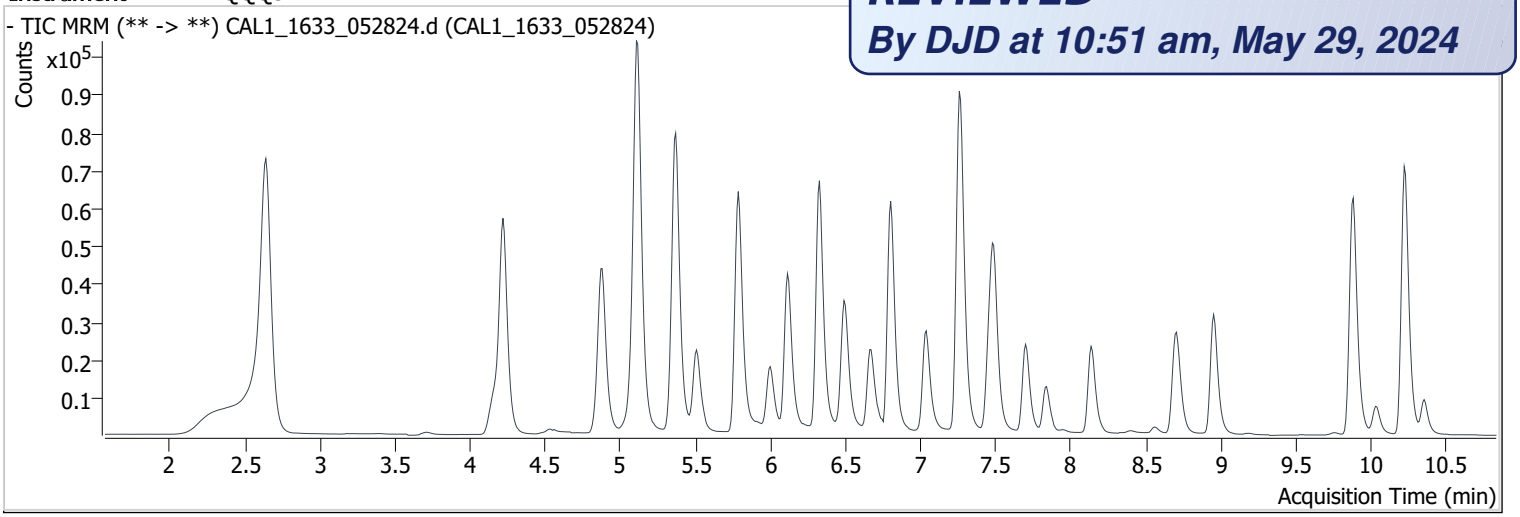
Calibration STD Path	Cal Type	Level	Enabled	Resp.	Exp. Conc	Resp. Factor
D:\MassHunter\Data\MAY2024\052824\CAL1_1633_052824.d	Calibration	1	x	1123	0.1000	1.0886
D:\MassHunter\Data\MAY2024\052824\CAL2_1633_052824.d	Calibration	2	x	2298	0.2000	1.2659
D:\MassHunter\Data\MAY2024\052824\CAL3_1633_052824.d	Calibration	3	x	6094	0.5000	1.5555
D:\MassHunter\Data\MAY2024\052824\CAL4_1633_052824.d	Calibration	4	x	15212	1.2500	1.2611
D:\MassHunter\Data\MAY2024\052824\CAL5_1633_052824.d	Calibration	5	x	34685	2.5000	1.2895
D:\MassHunter\Data\MAY2024\052824\CAL6_1633_052824.d	Calibration	6	x	67287	5.0000	1.3252
D:\MassHunter\Data\MAY2024\052824\ICV_1633_052824.d	QC	ICV	x	113670	10.0000	1.2883
D:\MassHunter\Data\MAY2024\052824\CAL7_1633_052824.d	Calibration	7	x	166351	12.5000	1.3195
D:\MassHunter\Data\MAY2024\052824\CAL8_1633_052824.d	Calibration	8	x	319543	25.0000	1.3692
D:\MassHunter\Data\MAY2024\052824\CAL9_1633_052824.d	Calibration	9	x	625005	50.0000	1.3823
D:\MassHunter\Data\MAY2024\052824\CALA_1633_052824.d	Calibration	10	x	761220	62.5000	1.3765

Quantitative Analysis Sample Report

Agilent 1670

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Last Calib Update**	5/29/2024 8:19 AM
Acq. Time	5/28/2024 9:55 AM	**Data File**	CAL1_1633_052824.d
Sample Type	Cal	**Sample Name**	CAL1_1633_052824
Dilution	1	**Acq. Method**	1633_ACQUISITION.m
Sample Comment	E#24E0154	**Processing method**	
Instrument	QQQ5		

REVIEWED
By DJD at 10:51 am, May 29, 2024



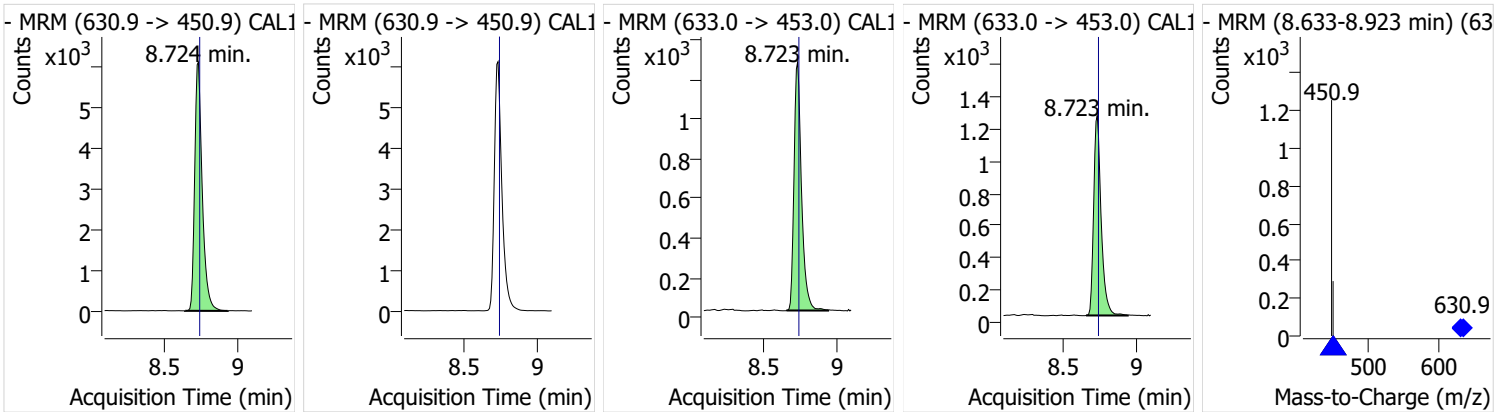
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
11Cl-PF3OUdS	8.724	21742	3933.13		13C3-HFPODA - ISTD	5.375	201345	0.2856	ng/ml			
633.0 -> 453.0			1071.47	20.3								
3:3FTCA	3.716	1735	1209.23		13C5-PFPeA - ISTD	4.220	255062	0.7740	ng/ml			
241.0 -> 117.0			160.23	52.0								
4:2FTS	4.871	8747	5001.95		13C2-4:2FTS - ISTD	4.879	42764	0.3250	ng/ml			
327.0 -> 80.9			449.18	34.2								
5:3FTCA	5.509	33770	4868.24		13C5-PFHxA - ISTD	5.109	169772	3.8734	ng/ml			
341.0 -> 217.0			4352.11	90.1								
6:2FTS	6.114	6035	1382.71		13C2-6:2FTS - ISTD	6.114	32694	0.3247	ng/ml			
427.0 -> 80.9			756.22	39.9								
7:3FTCA	6.666	39978	2761.62		13C5-PFHxA - ISTD	5.109	169772	3.6614	ng/ml			
441.0 -> 317.0			3430.07	91.6								
8:2FTS	7.039	3581	1176.05		13C2-8:2FTS - ISTD	7.039	29791	0.3348	ng/ml			
527.0 -> 81.0			405.34	54.6								
9Cl-PF3ONS	7.843	33604	1575.45		13C3-HFPODA - ISTD	5.375	201345	0.2940	ng/ml			
533.0 -> 353.0			238.32	25.6								
ADONA	6.004	41642	2680.17		13C3-HFPODA - ISTD	5.375	201345	0.2753	ng/ml			
377.0 -> 85.1			2733.78	39.0								
HFPO-DA	5.376	5153	1114.69		13C3-HFPODA - ISTD	5.375	201345	0.2998	ng/ml			
285.0 -> 184.9			144.26	49.5								
NEtFOSA	10.364	1123	974.04		D5-NEtFOSA - ISTD	10.354	25801	0.0823	ng/ml			

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
526.0 -> 219.0			777.79	99.9								
NEtFOSAA	7.461	1426	184.94		D5-NEtFOSAA - ISTD	7.453	83440	0.0808	ng/ml	✔	3	AMS 05/29/24
584.0 -> 526.0			75.18	65.5								
NEtFOSE	10.245	9980	3855.46		D9-NEtFOSE - ISTD	10.219	244872	0.8875	ng/ml			
NFDHA	5.023	974	562.04		13C5-PFHxA - ISTD	5.109	169772	0.2049	ng/ml			
295.0 -> 85.0			152.77	31.0								
NMeFOSA	10.044	1062	1401.35		D3-NMeFOSA - ISTD	10.034	23903	0.0946	ng/ml			
512.0 -> 219.0			517.29	84.6								
NMeFOSAA	7.275	1056	96.07		D3-NMeFOSAA - ISTD	7.266	171399	0.0845	ng/ml	✔	3	AMS 05/29/24
570.0 -> 418.9			1083.59	62.2								
NMeFOSE	9.899	8962	4974.47		D7-NMeFOSE - ISTD	9.881	224028	0.8931	ng/ml			
PFBA	2.645	8911	353.66		13C4-PFBA - ISTD	2.639	277257	0.3549	ng/ml	✔	3	AMS 05/29/24
PFBS	5.129	2375	343.70		13C3-PFBS - ISTD	5.129	74067	0.0679	ng/ml			
298.9 -> 98.8			162.03	46.7								
PFDA	7.262	5013	136.41		13C6-PFDA - ISTD	7.253	82417	0.0777	ng/ml			
513.0 -> 219.0			370.14	22.1								
PFDoA	8.137	5053	198.88		13C2-PFDoA - ISTD	8.136	76060	0.0827	ng/ml			
613.0 -> 319.0			161.66	17.4								
PFDoS	9.189	840	507.33		13C8-PFOS - ISTD	7.492	41943	0.0820	ng/ml			
698.9 -> 99.0			480.79	70.8								
PFDS	8.403	1217	393.65		13C8-PFOS - ISTD	7.492	41943	0.0830	ng/ml			
599.0 -> 98.8			386.44	55.8								
PFEESA	5.511	14930	2622.85		13C5-PFHxA - ISTD	5.109	169772	0.1500	ng/ml			
315.0 -> 83.0			219.78	7.6								
PFHpA	5.789	7450	163.52		13C4-PFHpA - ISTD	5.789	216653	0.0831	ng/ml			
362.9 -> 169.0			259.05	15.2								
PFHpS	7.011	1595	217.53		13C8-PFOS - ISTD	7.492	41943	0.0792	ng/ml			
449.0 -> 98.8			277.87	55.3								
PFHxA	5.111	5692	205.23		13C5-PFHxA - ISTD	5.109	169772	0.0856	ng/ml			
313.0 -> 118.9			44.40	3.4								
PFHxS	6.505	2092	531.74		13C3-PFHxS - ISTD	6.496	49140	0.0893	ng/ml	✔	3	AMS 05/29/24
398.9 -> 99.0			208.74	47.7								
PFMBA	4.538	5375	1429.25		13C5-PFPeA - ISTD	4.220	255062	0.1600	ng/ml			
PFMPA	3.391	607	345.38		13C5-PFPeA - ISTD	4.220	255062	0.1707	ng/ml	✔	3	AMS 05/29/24
PFNA	6.804	5828	152.81		13C9-PFNA - ISTD	6.804	92876	0.0797	ng/ml			
463.0 -> 219.0			358.24	24.4								
PFNS	7.959	1450	588.12		13C8-PFOS - ISTD	7.492	41943	0.0803	ng/ml			
549.0 -> 98.8			291.61	52.4								
PFOA	6.329	7770	44.77		13C8-PFOA - ISTD	6.328	194644	0.0869	ng/ml	✔	3	AMS 05/29/24
413.0 -> 169.0			453.38	25.2								

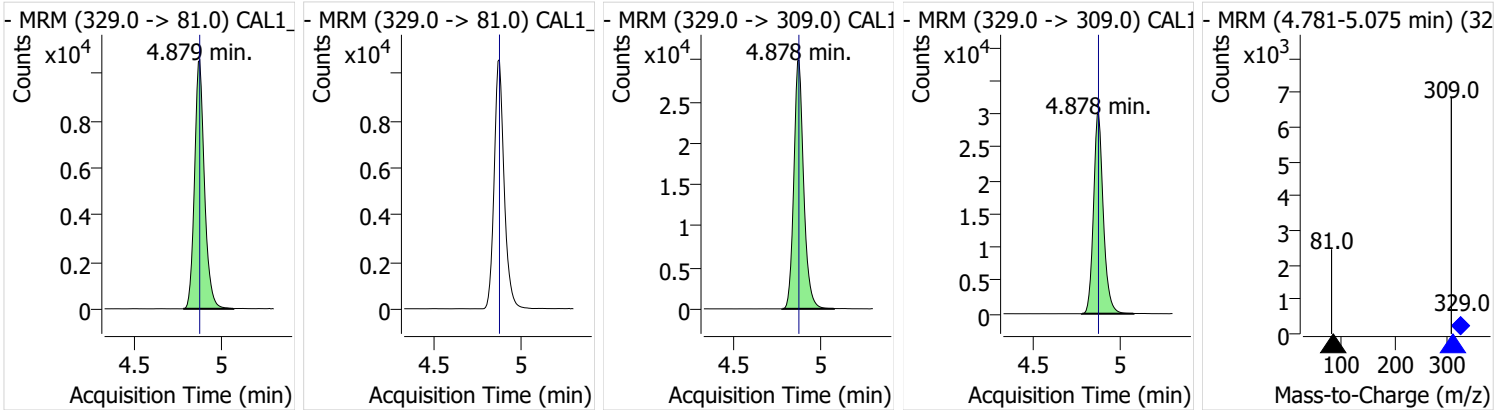
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFOS	7.493	1742	237.85		13C8-PFOS - ISTD	7.492	41943	0.0857	ng/ml	✔	3	AMS 05/29/24
499.0 -> 99.0			162.43	48.6								
PFOSA	8.702	2844	3726.02		13C8-PFOSA - ISTD	8.701	77853	0.0848	ng/ml			
497.9 -> 478.0			725.63	2.3								
PFPeA	4.222	8430	356.13		13C5-PFPeA - ISTD	4.220	255062	0.1677	ng/ml			
263.0 -> 69.0			14.39	0.3								
PFPeS	5.906	1931	287.95		13C3-PFHxS - ISTD	6.496	49140	0.0725	ng/ml			
349.0 -> 98.9			179.11	52.9								
PFTeDA	8.951	6957	272.70		13C2-PFTeDA - ISTD	8.950	104958	0.0856	ng/ml			
713.0 -> 168.9			984.64	8.2								
PFTrDA	8.557	5479	310.33		13C2-PFDoA - ISTD	8.136	76060	0.0866	ng/ml			
663.0 -> 168.9			379.28	14.0								
PFUnA	7.702	4883	194.01		13C7-PFUnA - ISTD	7.701	76268	0.0826	ng/ml			
563.0 -> 269.1			256.63	23.1								
TDCA	5.572	6	4.53					-	ng/ml			
499.0 -> 99.0				*								
13C2-8:2FTS	7.038	59250	241996.85		18O2-PFHxS	6.495	44900	4.8320	ng/ml			
529.0 -> 81.0			8342.45	50.3								
13C2-4:2FTS	4.878	120685	43439.99		18O2-PFHxS	6.495	44900	5.2797	ng/ml			
329.0 -> 81.0			7639.48	35.4								
13C2-6:2FTS	6.113	103538	21700.10		18O2-PFHxS	6.495	44900	5.0961	ng/ml			
429.0 -> 81.0			8710.80	31.6								
13C5-PFHxA	5.109	169772	10258.62		13C2-PFHxA	5.110	148436	2.6994	ng/ml			
318.0 -> 120.0			191.42	1.6								
13C6-PFDA	7.253	82417	5097.24		13C2-PFDA	7.262	77668	1.3326	ng/ml			
13C7-PFUnA	7.701	76268	10230.72		13C2-PFDA	7.262	77668	1.3191	ng/ml			
13C8-PFOA	6.328	194644	26306.59		13C4-PFOA	6.329	22506	2.6432	ng/ml			
13C8-PFOS	7.492	41943	8543.71		13C4-PFOS	7.492	43132	2.6218	ng/ml			
507.0 -> 99.0			5796.19	54.6								
13C8-PFOSA	8.701	77853	803253.21		13C4-PFOS	7.492	43132	2.6931	ng/ml			
13C9-PFNA	6.804	92876	7641.78		13C5-PFNA	6.804	112974	1.3361	ng/ml			
13C5-PFPeA	4.220	255062	28754.92		13C2-PFHxA	5.110	148436	5.4692	ng/ml			
13C2-PFDoA	8.136	76060	22887.86		13C2-PFDA	7.262	77668	1.2745	ng/ml			
13C4-PFHpA	5.789	216653	17502.05		13C2-PFHxA	5.110	148436	2.6406	ng/ml			
13C4-PFBA	2.639	274811	62057.27		13C3-PFBA	2.642	118943	10.5763	ng/ml	✔	3	AMS 05/29/24
13C3-PFHxS	6.496	49140	18671.78		18O2-PFHxS	6.495	44900	2.6668	ng/ml			

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
402.0 -> 99.0			10307.91	52.7								
13C3-PFBS	5.129	74067	16069.79		18O2-PFHxS	6.495	44900	2.7778	ng/ml			
301.9 -> 98.9			4841.89	36.1								
13C3-HFPODA	5.375	201345	65994.25		13C2-PFHxA	5.110	148436	11.1628	ng/ml			
287.0 -> 185.0			15858.77	44.9								
13C2-PFTeDA	8.950	104958	24133.52		13C2-PFDA	7.262	77668	1.3043	ng/ml			
D9-NEtFOSE	10.219	244872	65441.06		13C4-PFOS	7.492	43132	26.1850	ng/ml			
D3-NMeFOSA	10.034	23903	12792.74		13C4-PFOS	7.492	43132	2.5311	ng/ml			
D3-NMeFOSAA	7.266	171399	30403.82		13C4-PFOS	7.492	43132	5.3471	ng/ml			
D5-NEtFOSA	10.354	25801	13057.61		13C4-PFOS	7.492	43132	2.6838	ng/ml			
D5-NEtFOSAA	7.453	83440	9258.60		13C4-PFOS	7.492	43132	5.1995	ng/ml			
D7-NMeFOSE	9.881	224028	115614.83		13C4-PFOS	7.492	43132	25.6348	ng/ml			

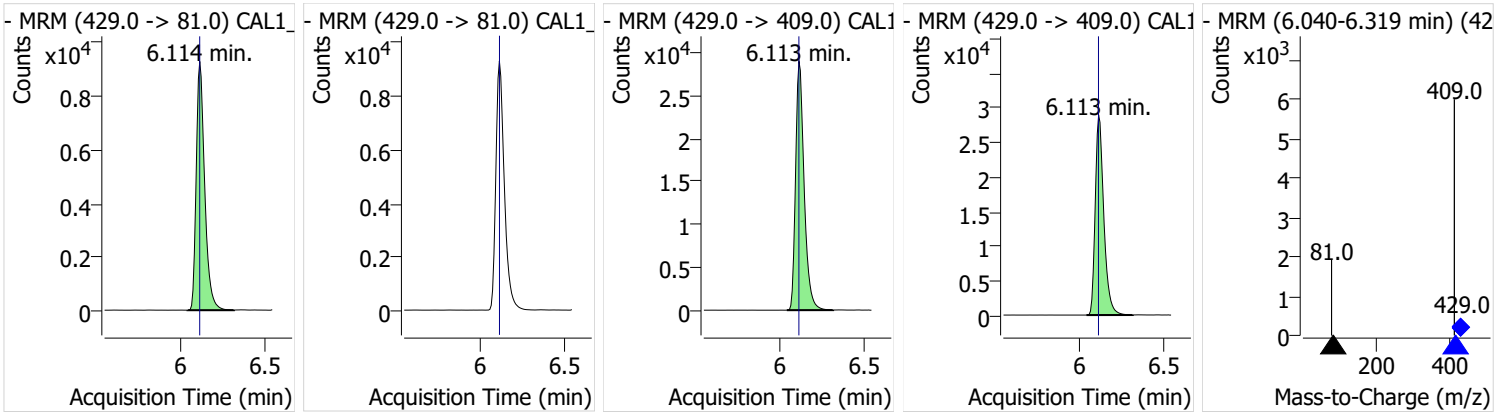
11Cl-PF3OUdS



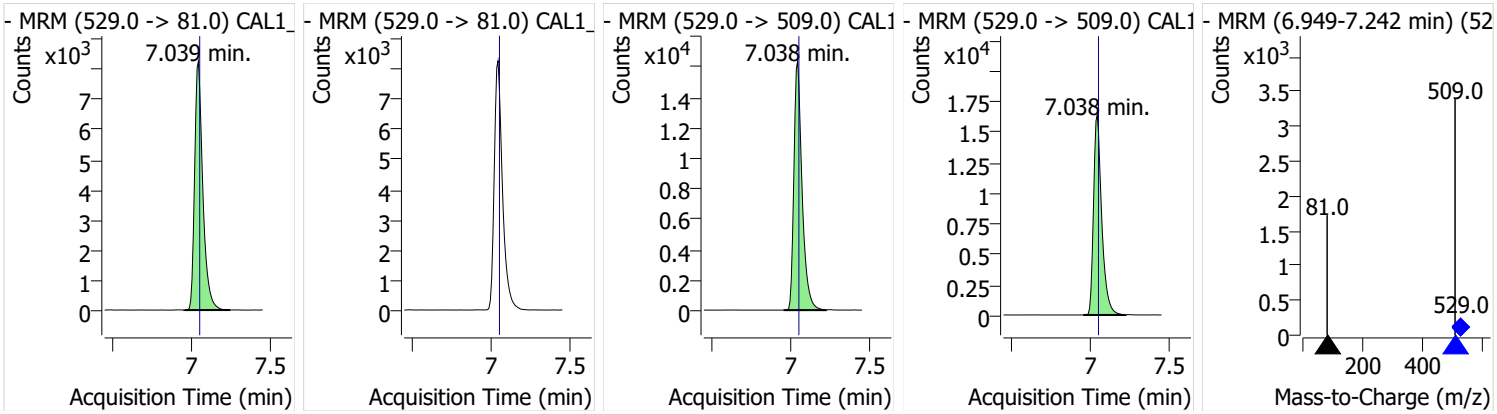
13C2-4:2FTS - ISTD



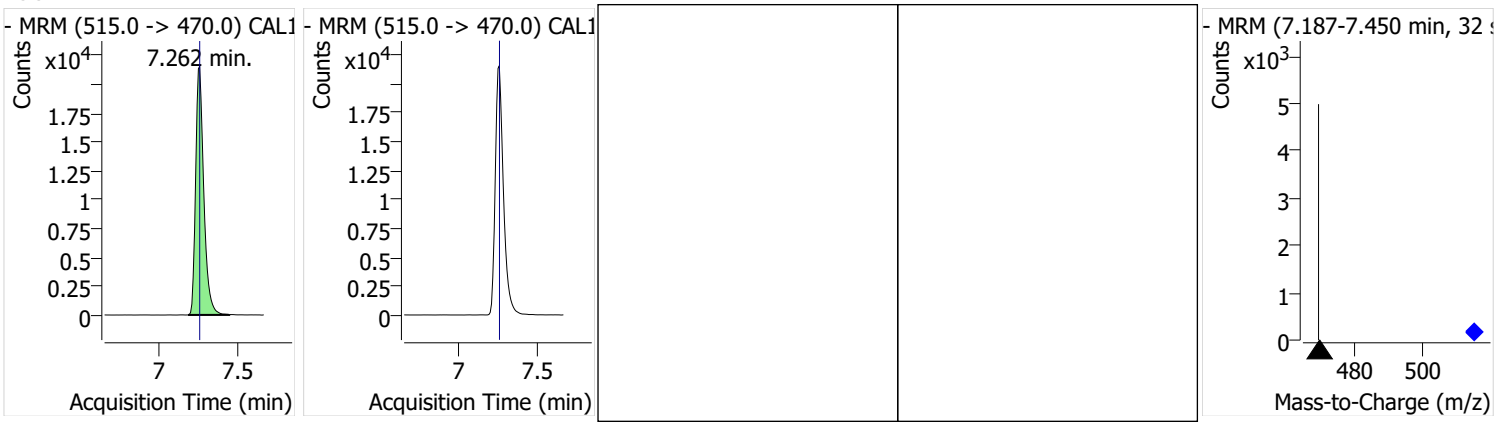
13C2-6:2FTS - ISTD



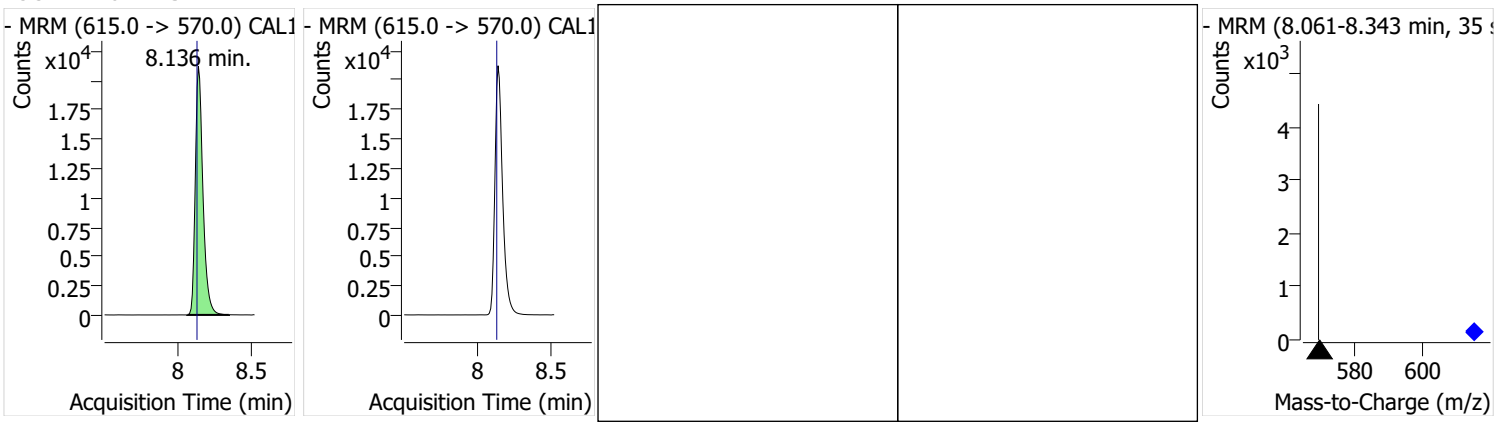
13C2-8:2FTS - ISTD



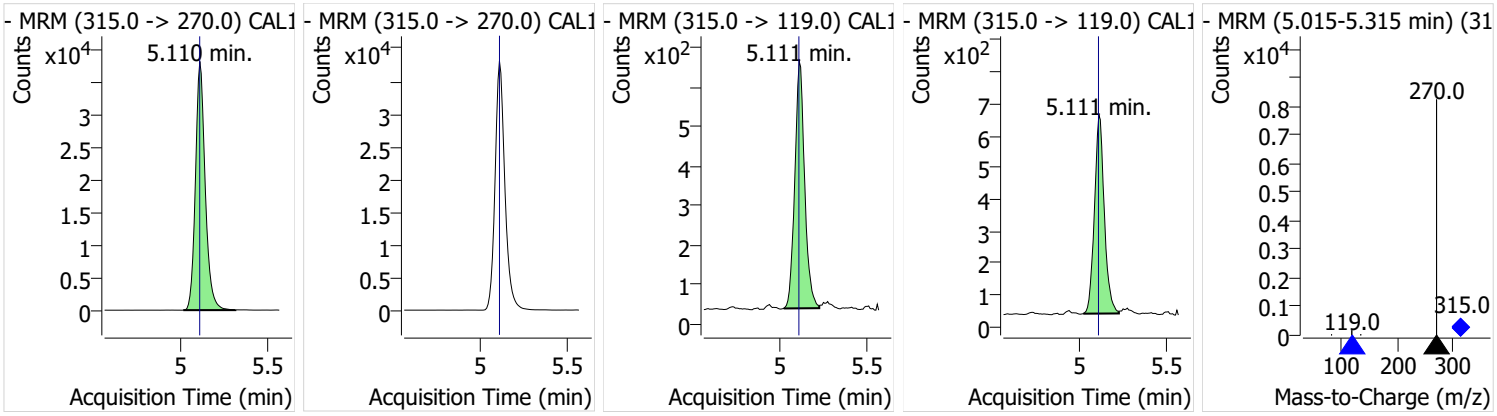
13C2-PFDA



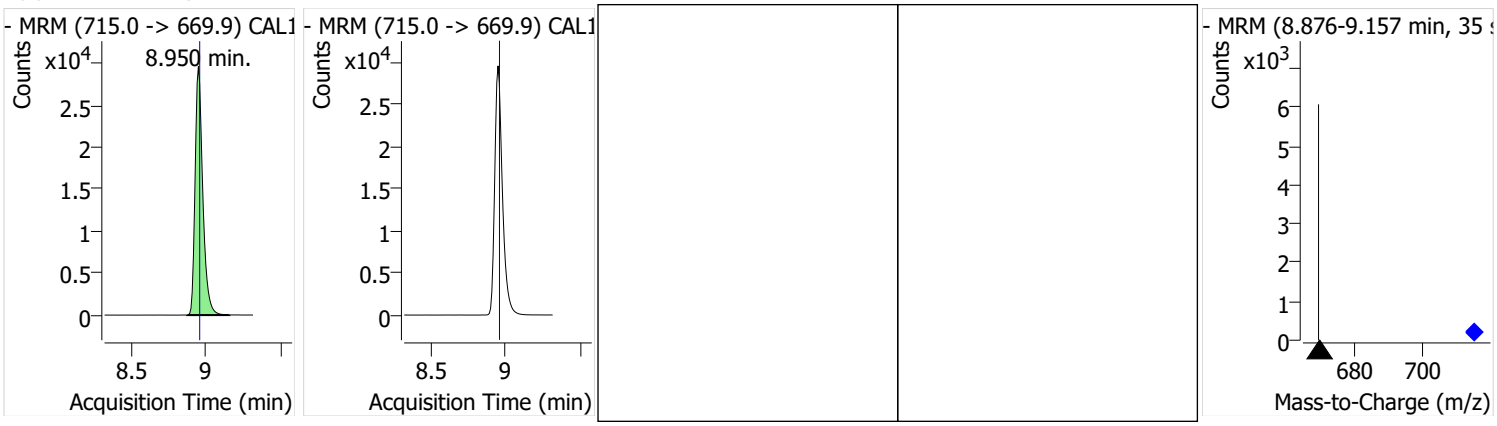
13C2-PFDoA - ISTD



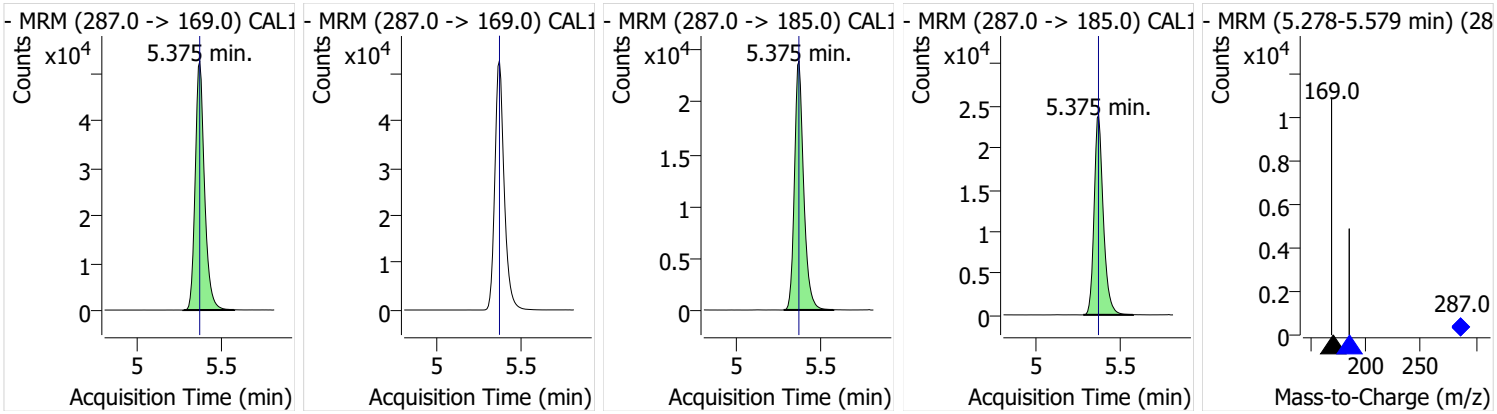
13C2-PFHxA



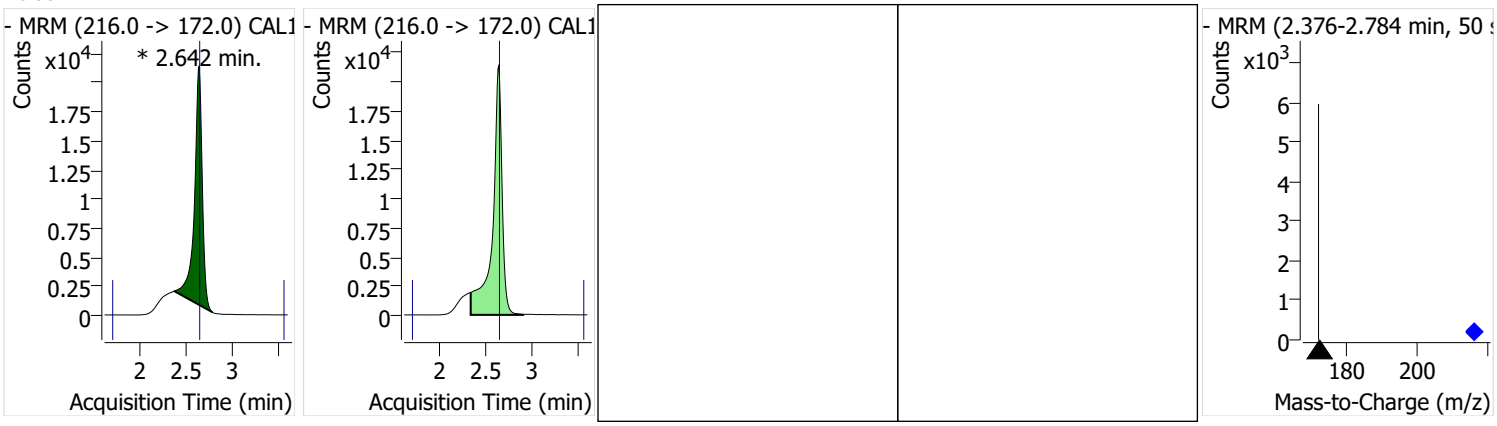
13C2-PFTeDA - ISTD



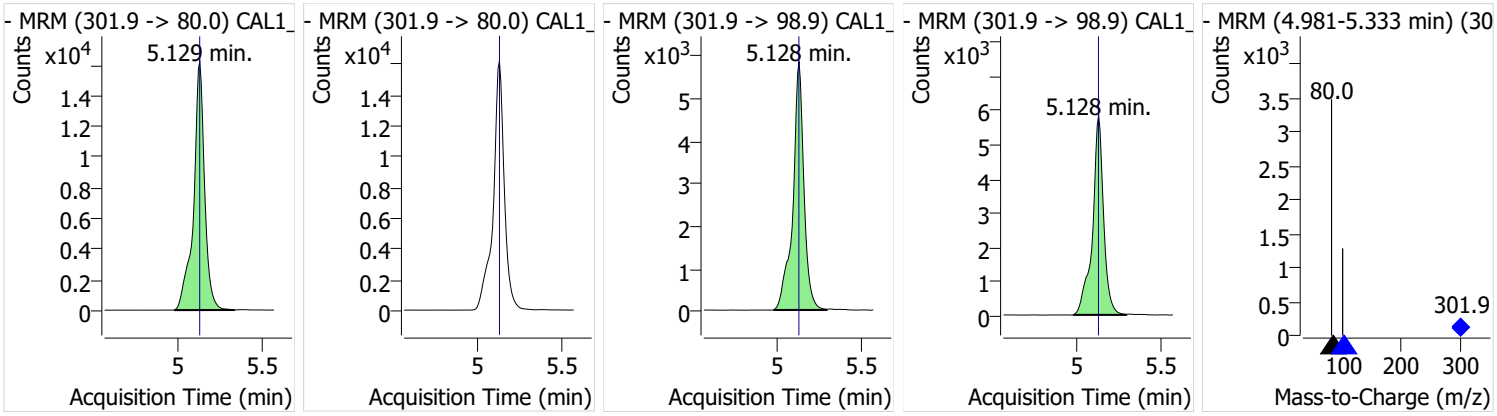
13C3-HFPODA - ISTD



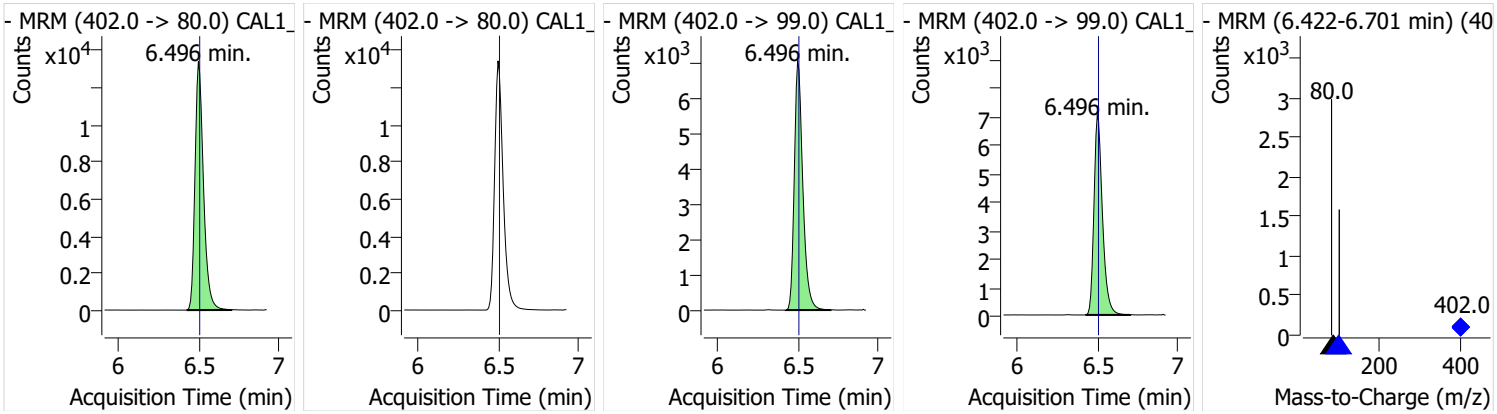
13C3-PFBA



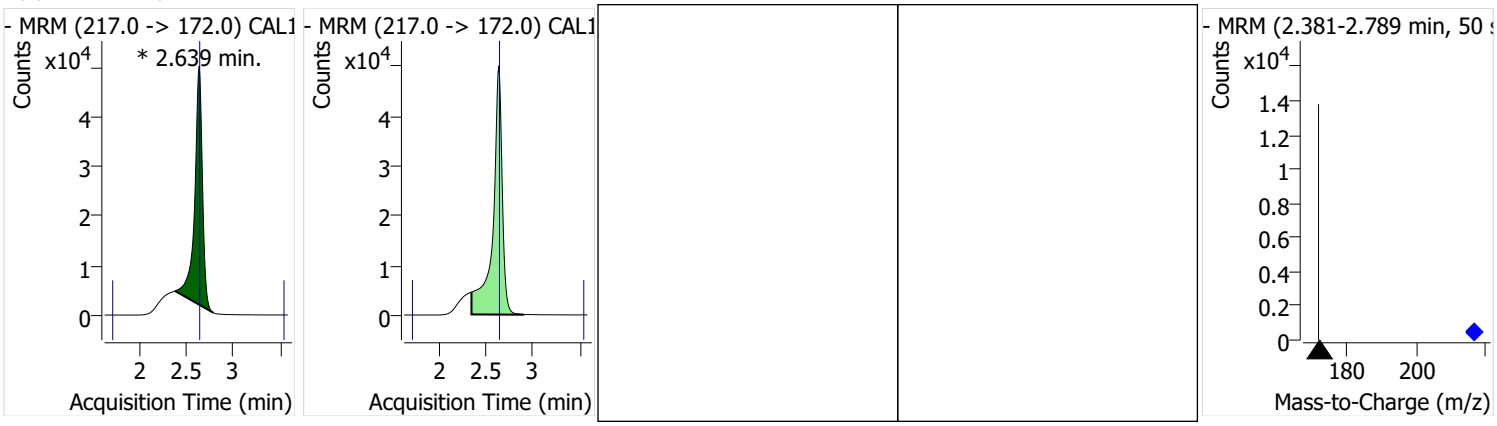
13C3-PFBS - ISTD



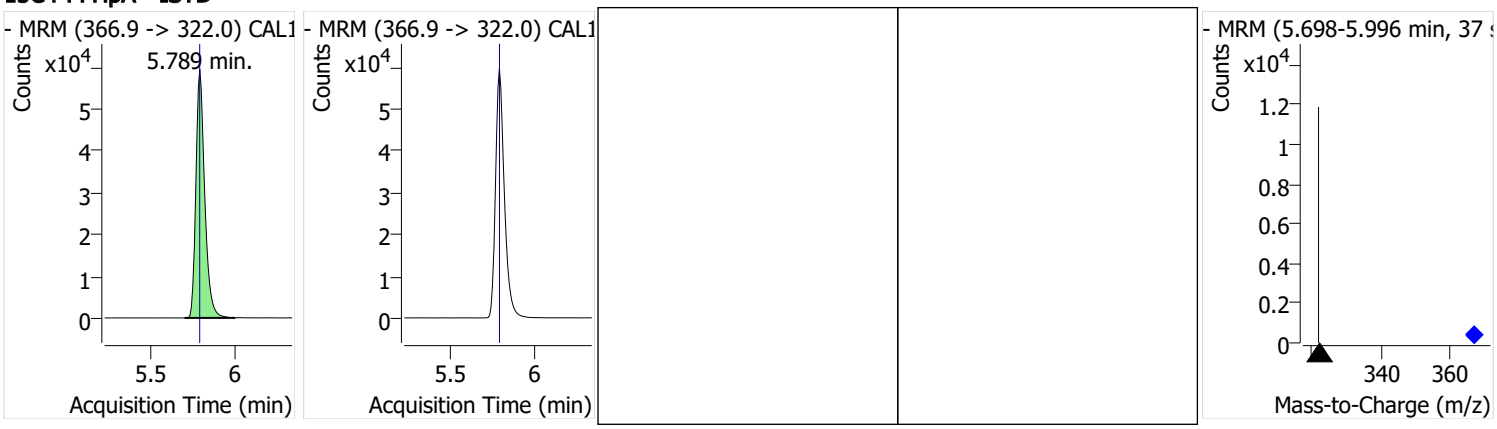
13C3-PFHxS - ISTD



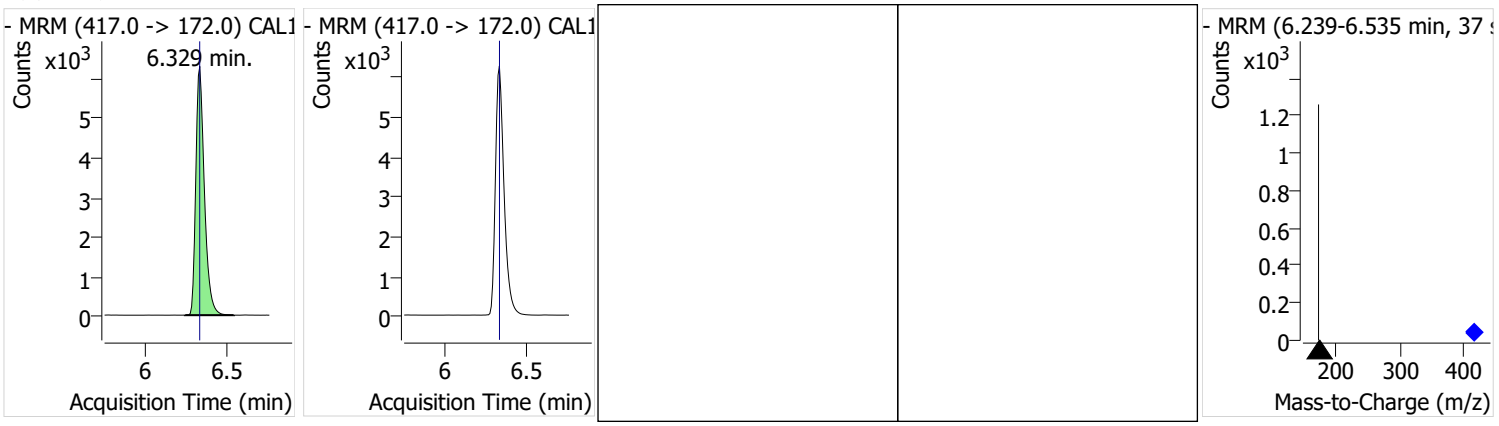
13C4-PFBA - ISTD



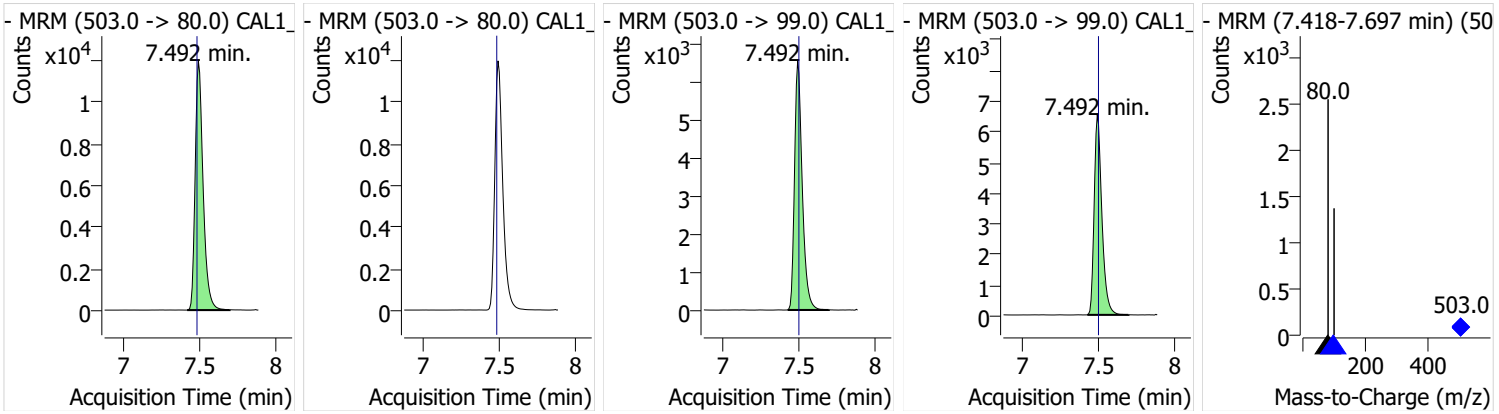
13C4-PFHpA - ISTD



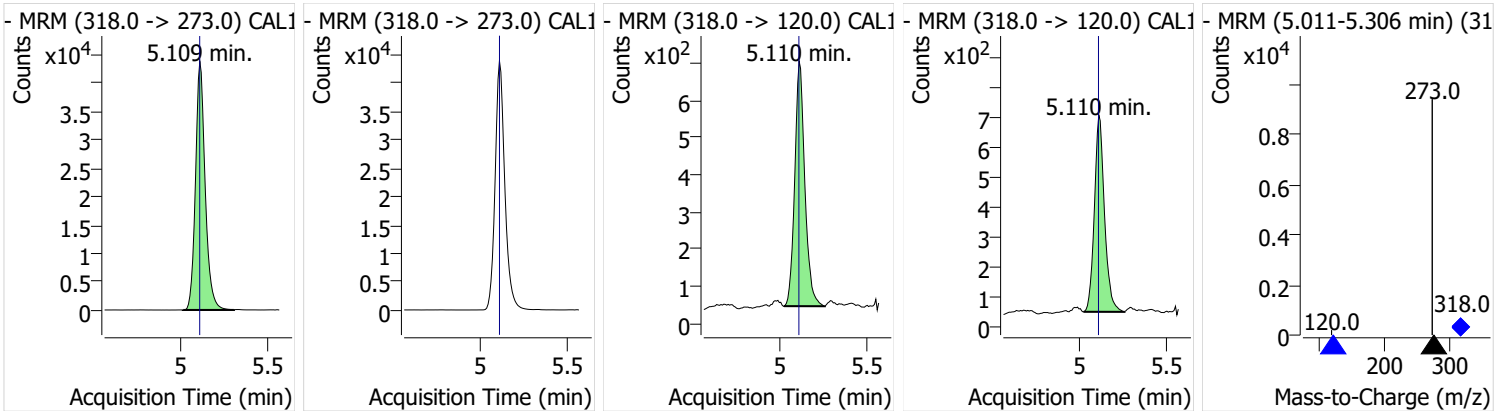
13C4-PFOA



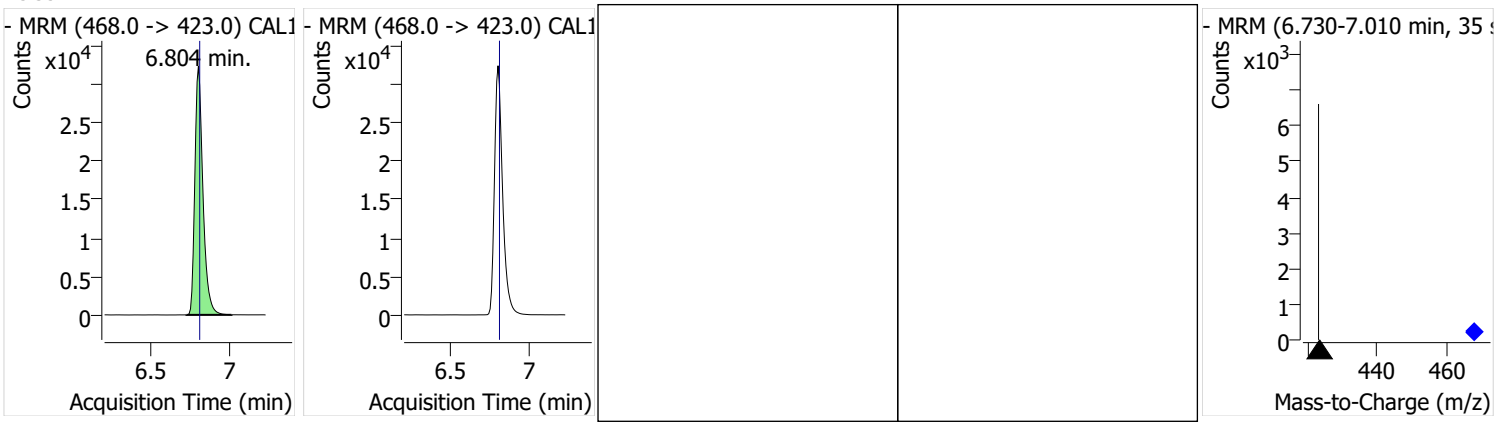
13C4-PFOS



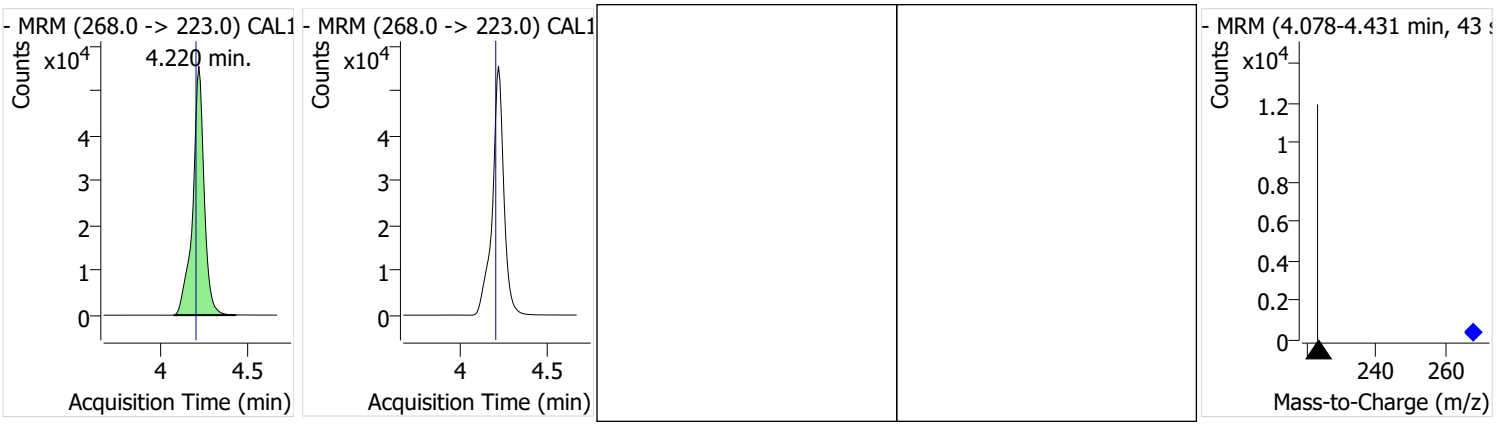
13C5-PFHxA - ISTD



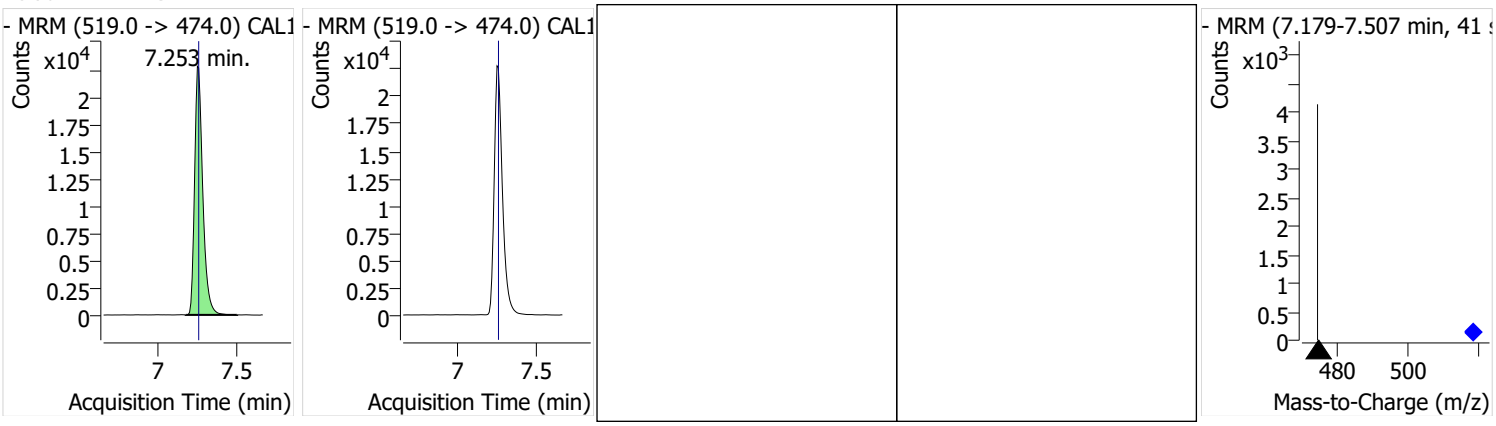
13C5-PFNA



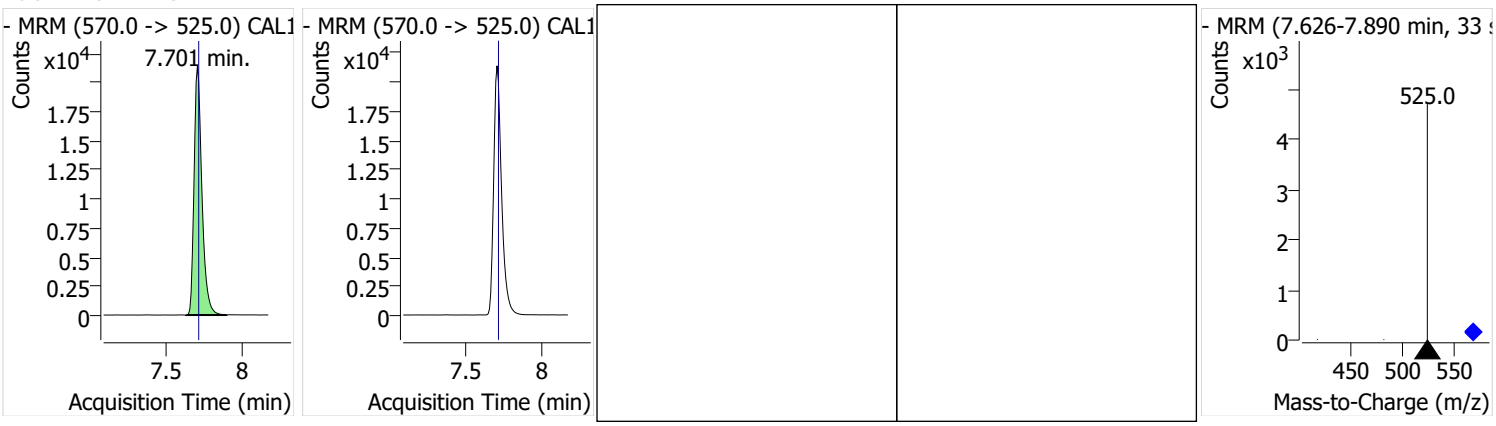
13C5-PFPeA - ISTD



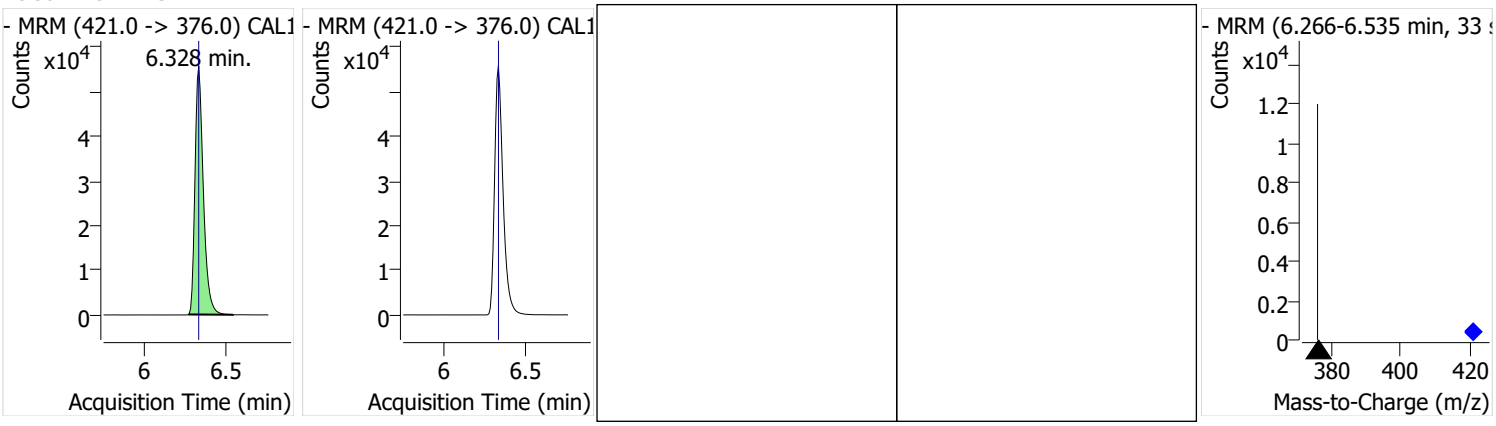
13C6-PFDA - ISTD



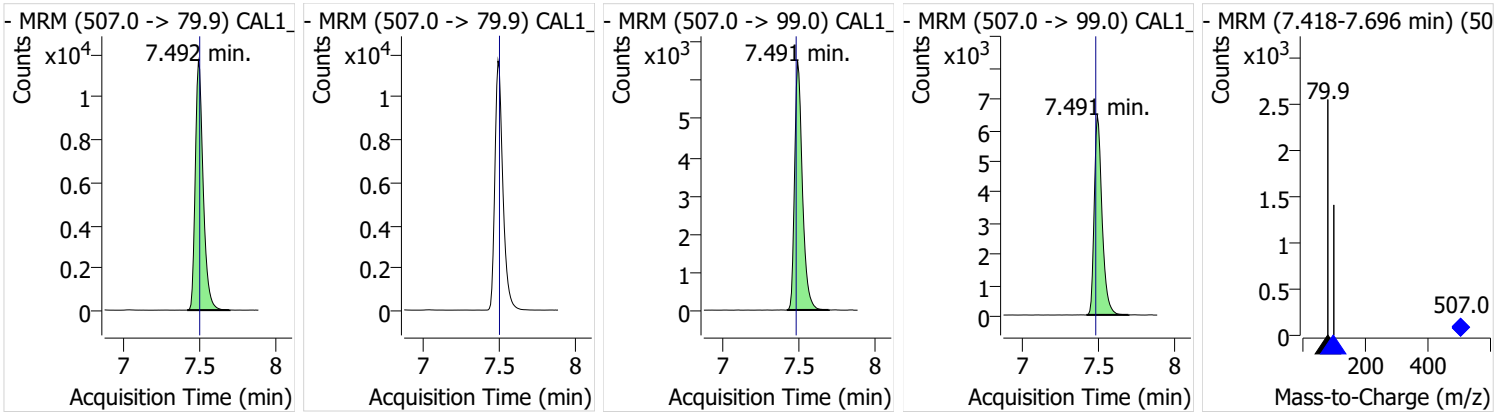
13C7-PFUnA - ISTD



13C8-PFOA - ISTD

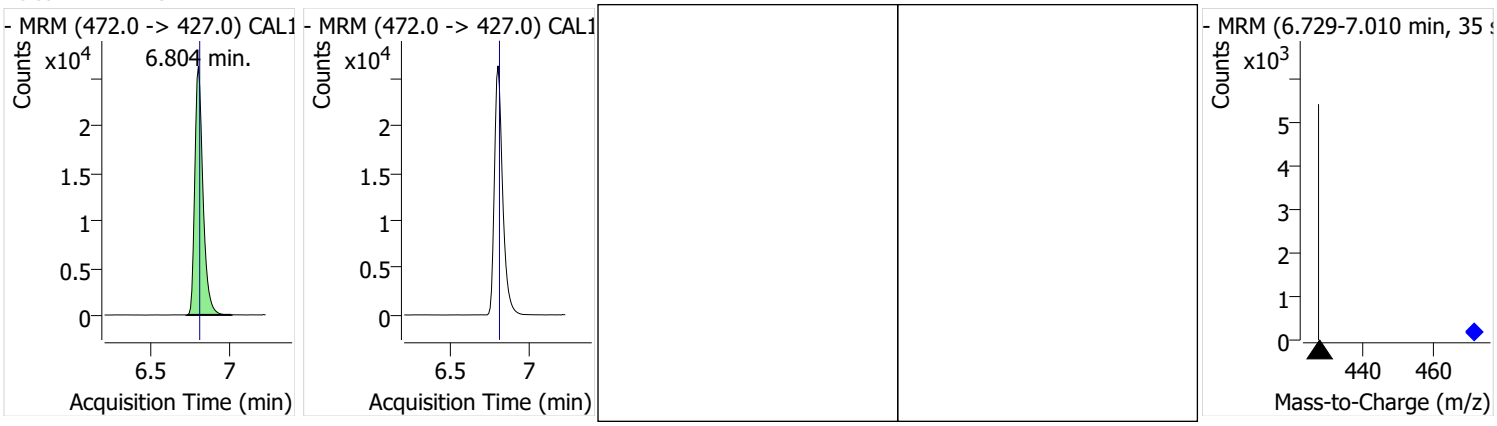


13C8-PFOS - ISTD

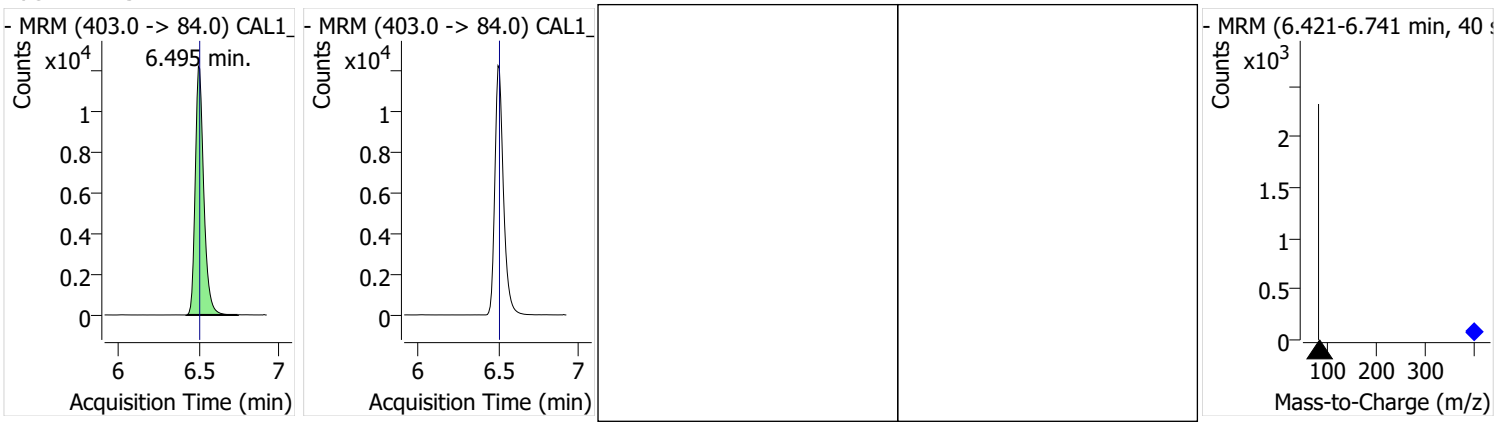


13C8-PFOSA - ISTD

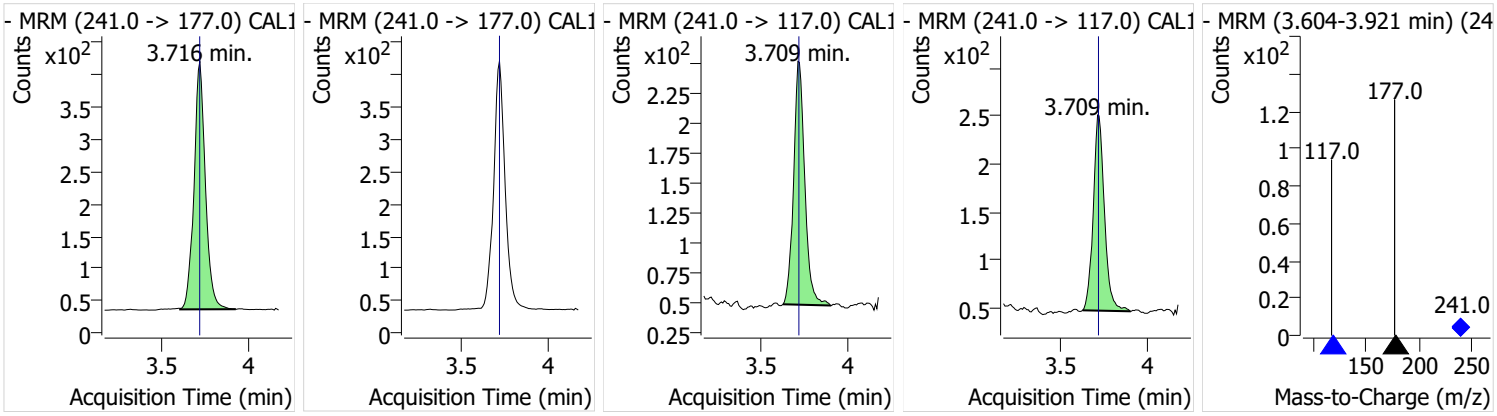
13C9-PFNA - ISTD



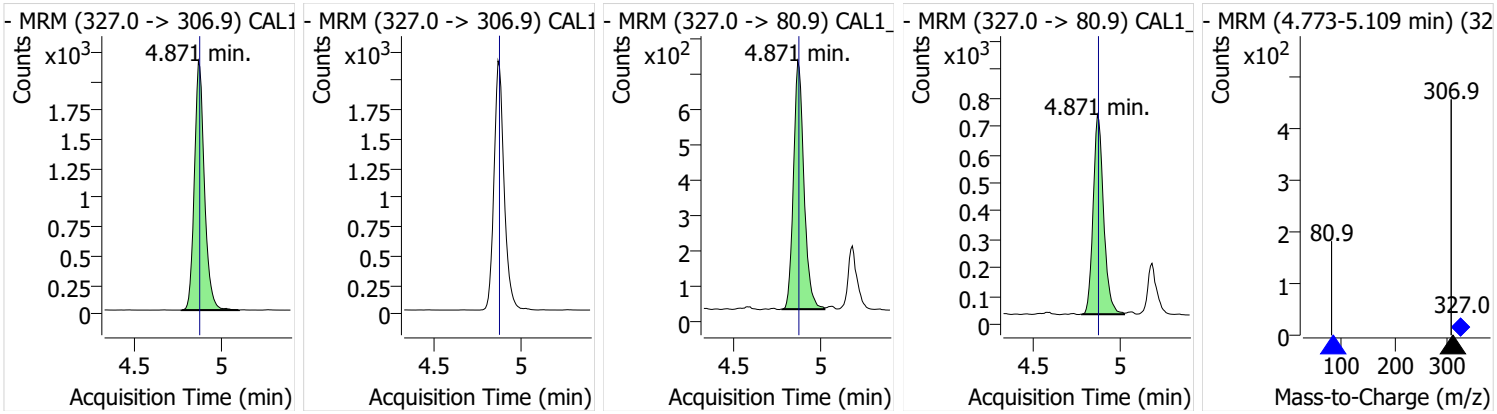
18O2-PFHxS



3:3FTCA



4:2FTS



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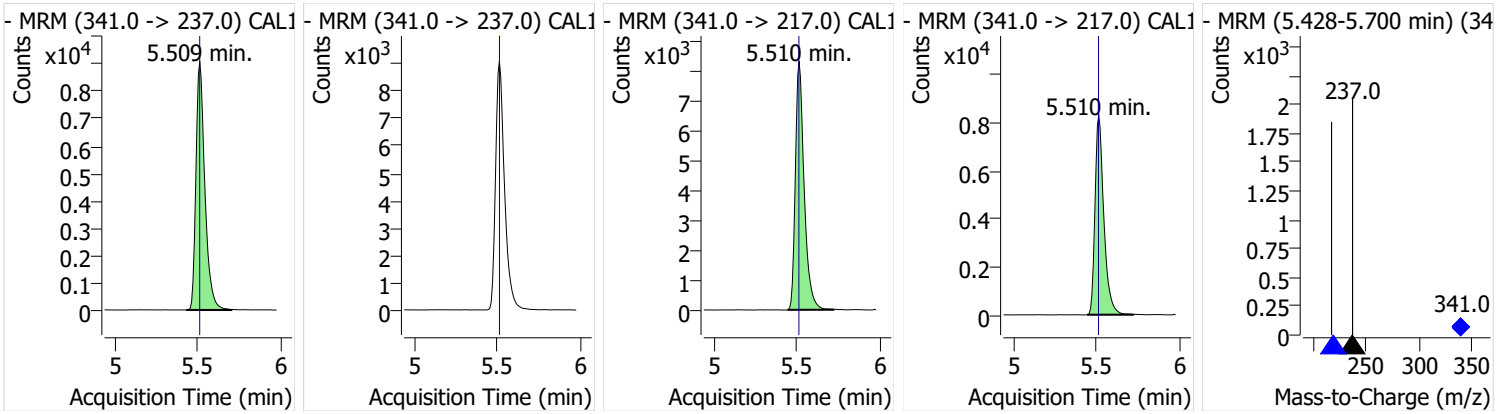
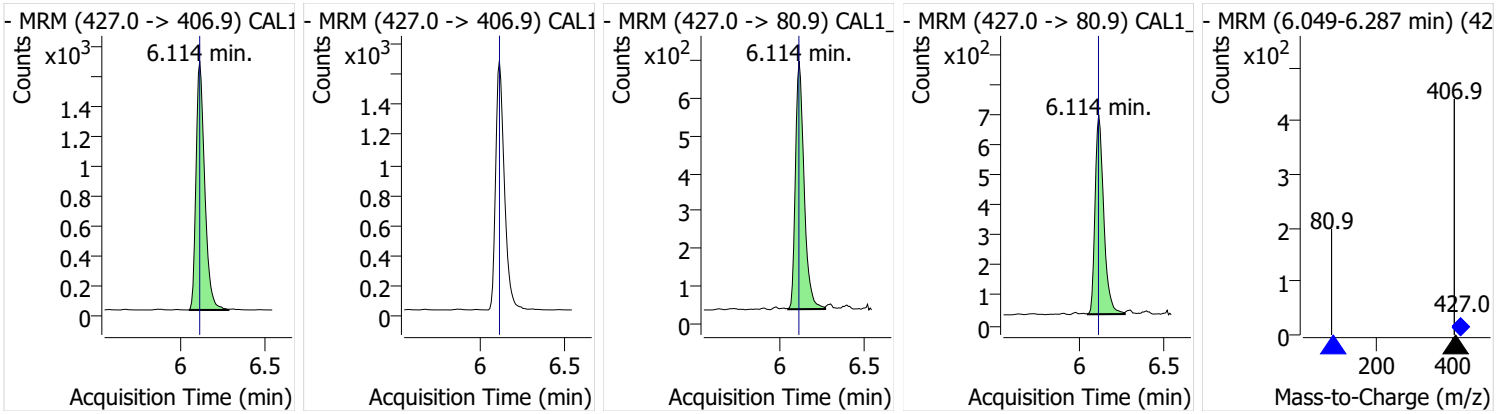
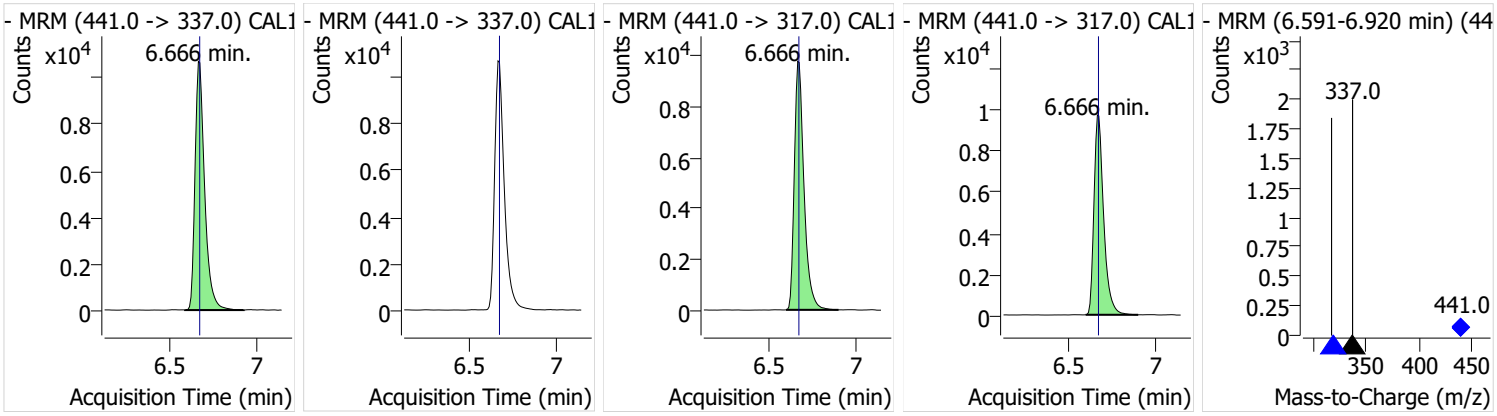


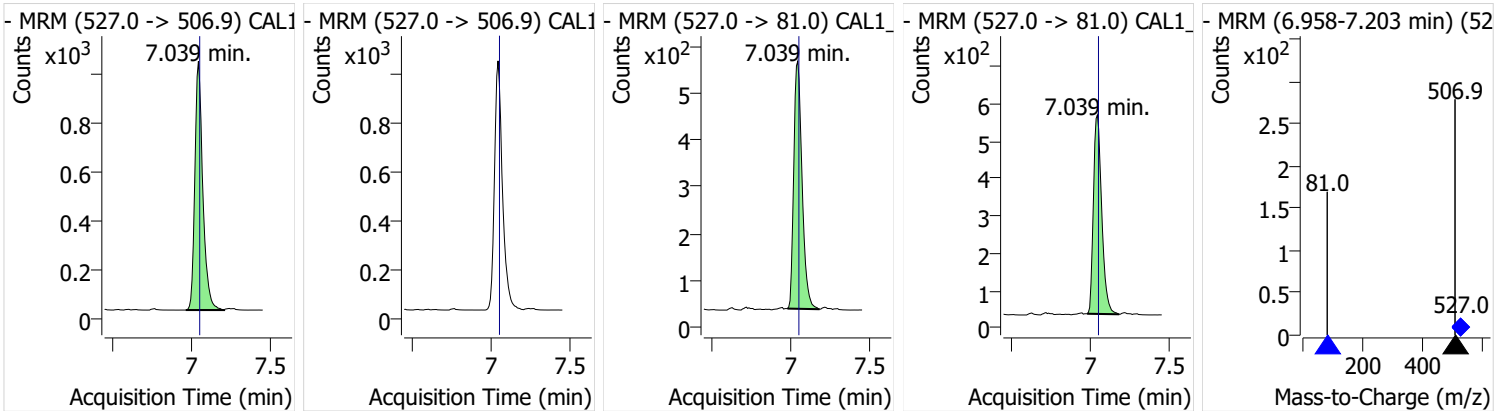
6:2FTS



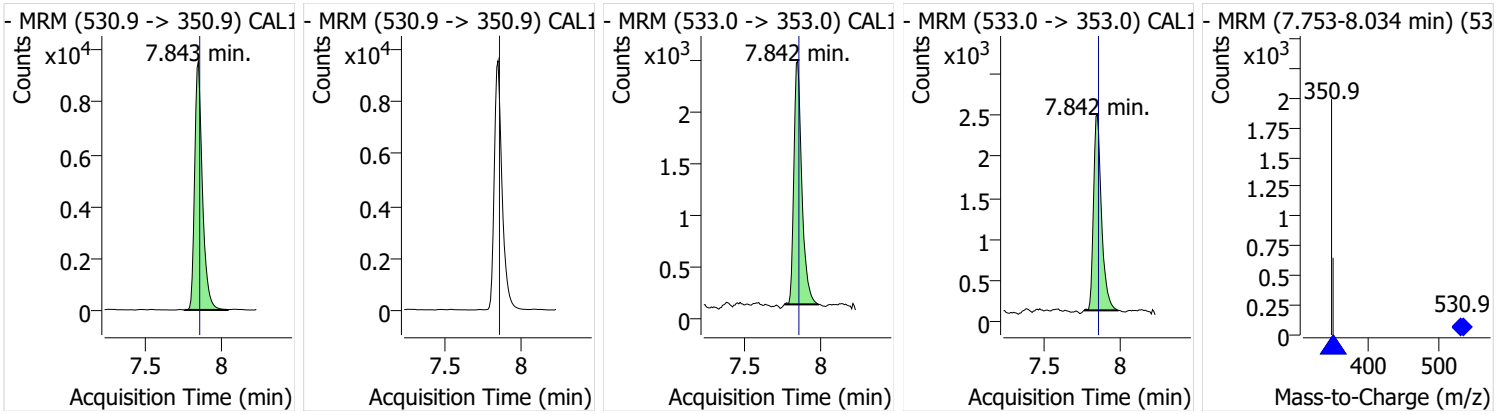
7:3FTCA



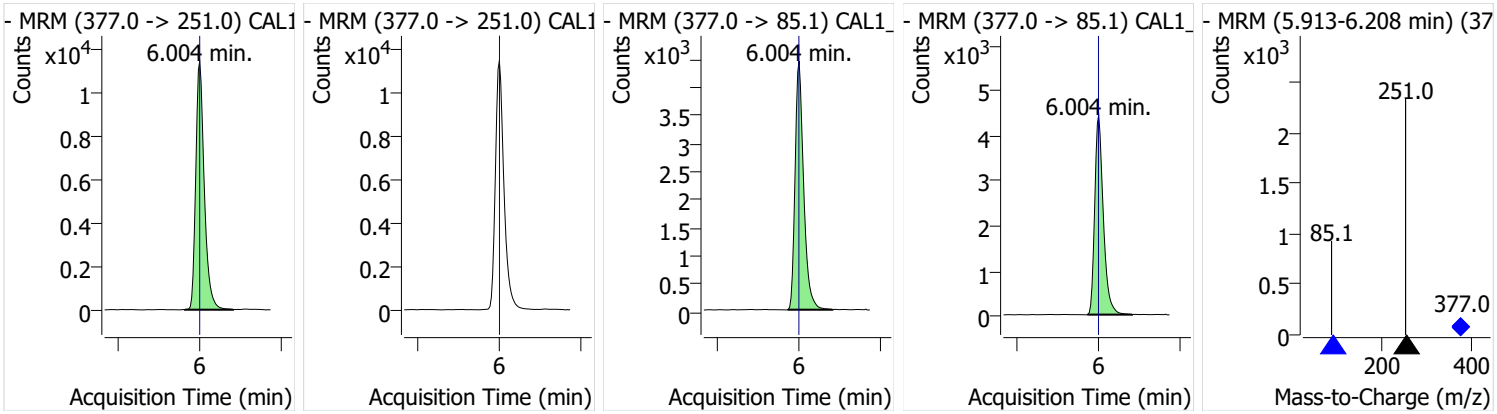
8:2FTS



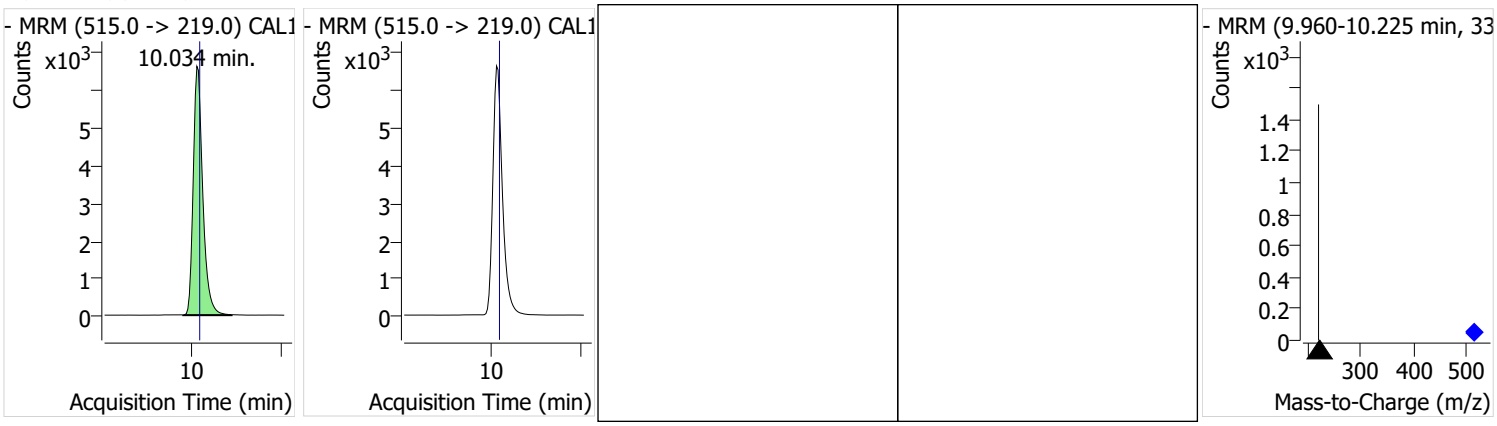
9Cl-PF3ONS



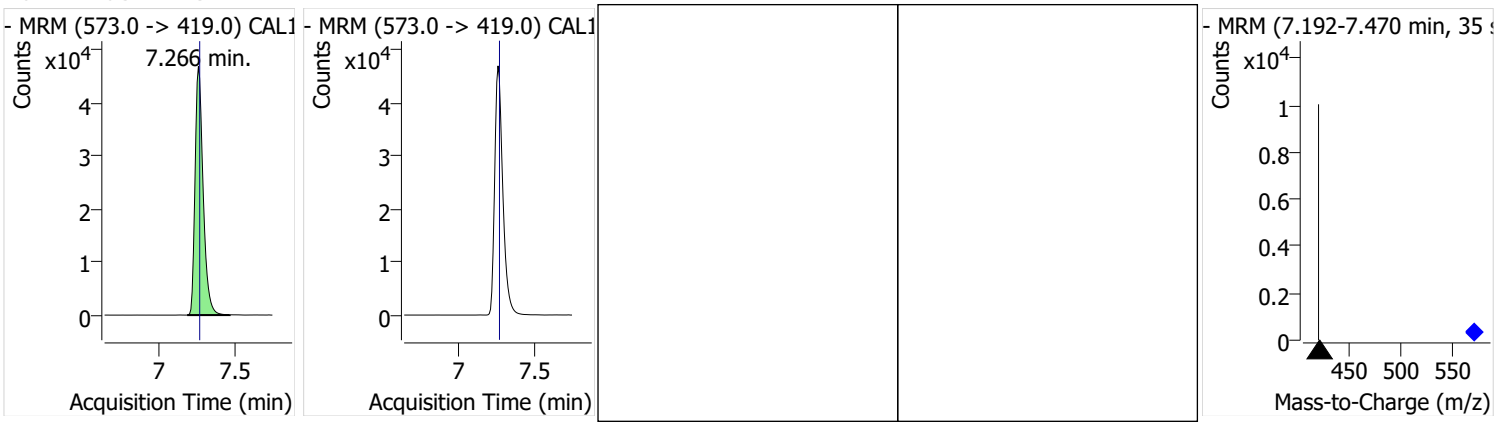
ADONA



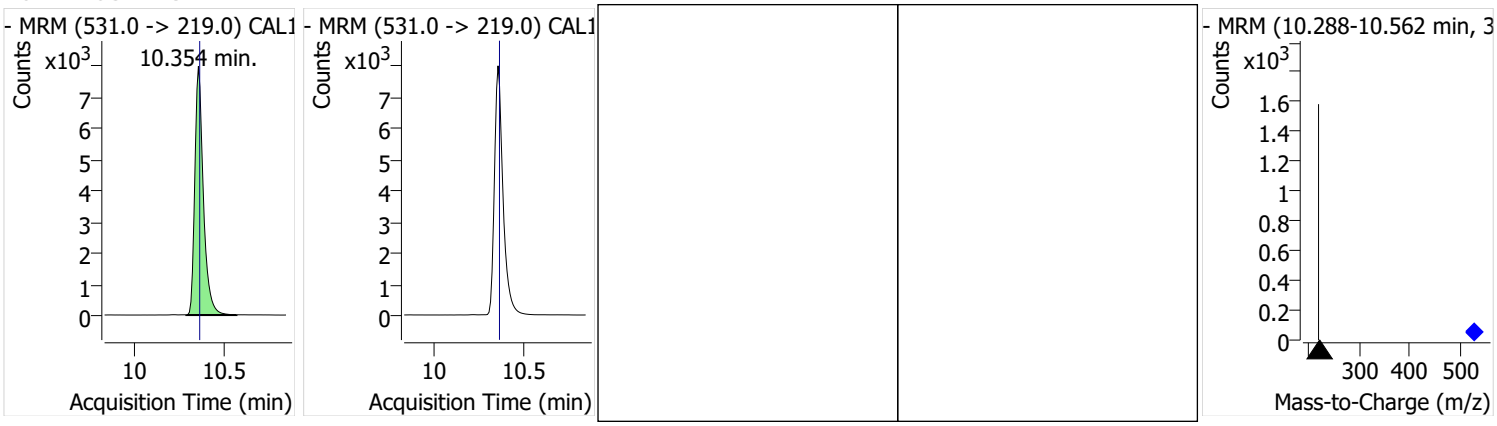
D3-NMeFOSA - ISTD



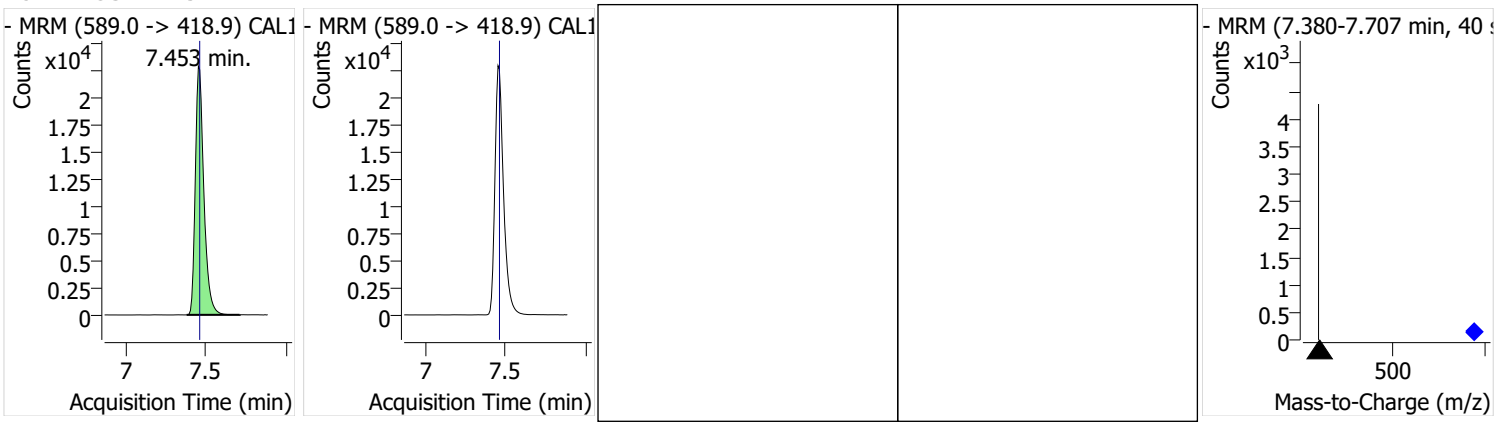
D3-NMeFOSAA - ISTD



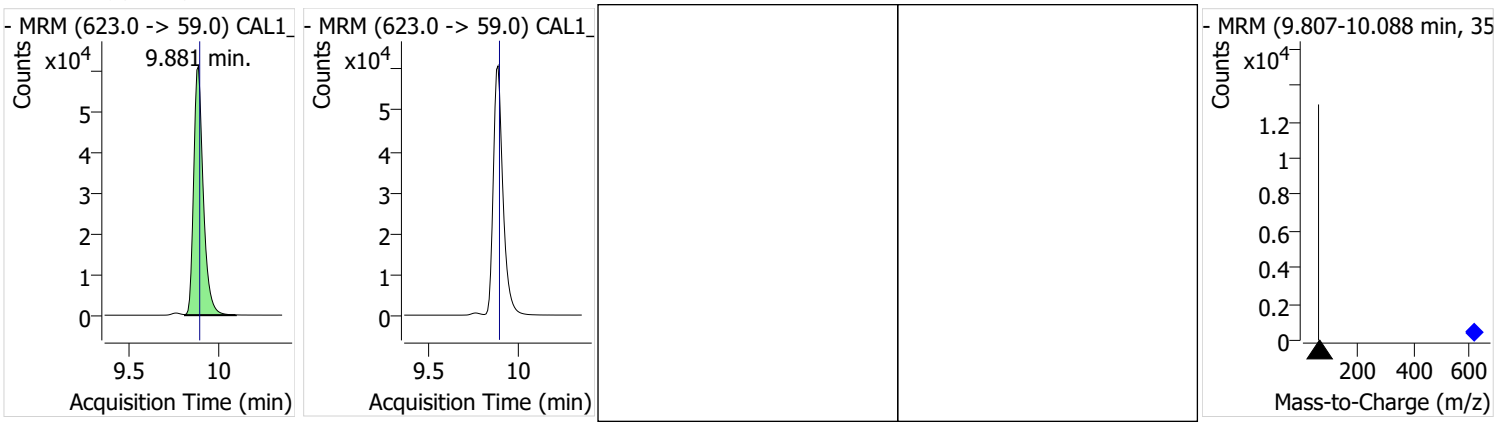
D5-NEtFOSA - ISTD



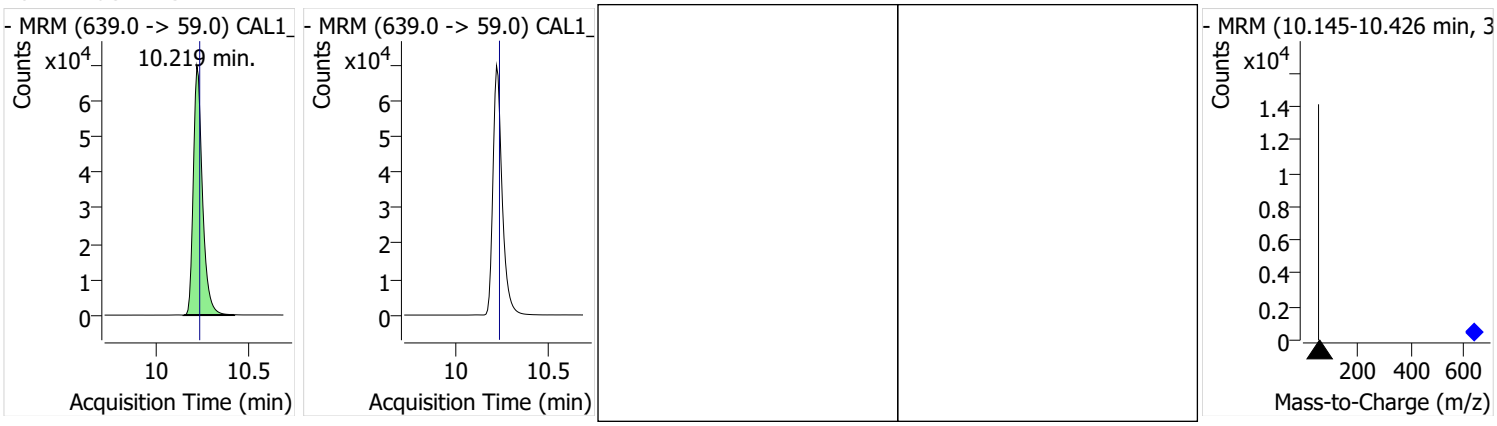
D5-NEtFOSAA - ISTD



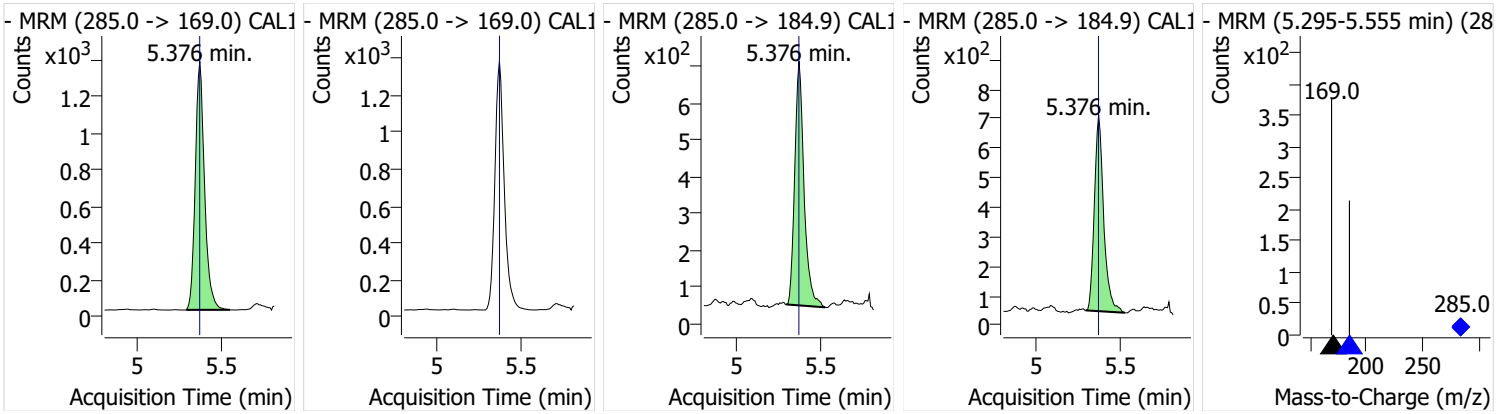
D7-NMeFOSE - ISTD



D9-NEtFOSE - ISTD



HFPO-DA



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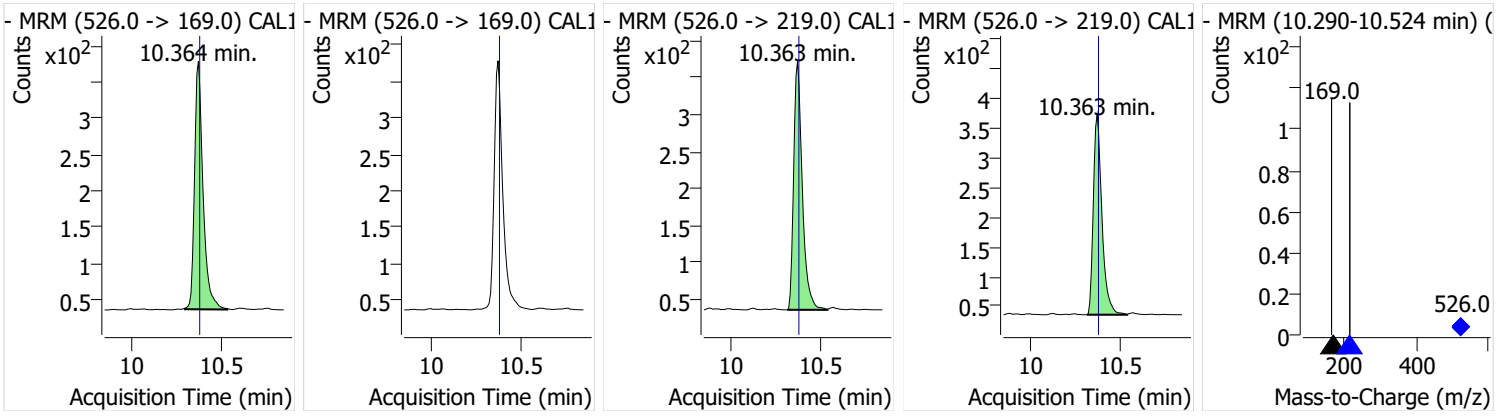

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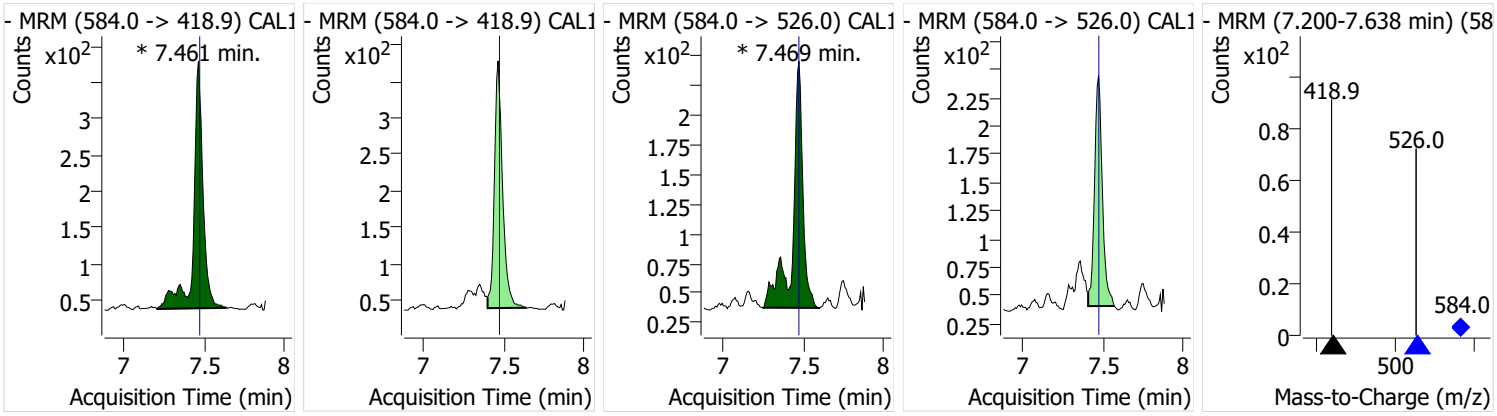

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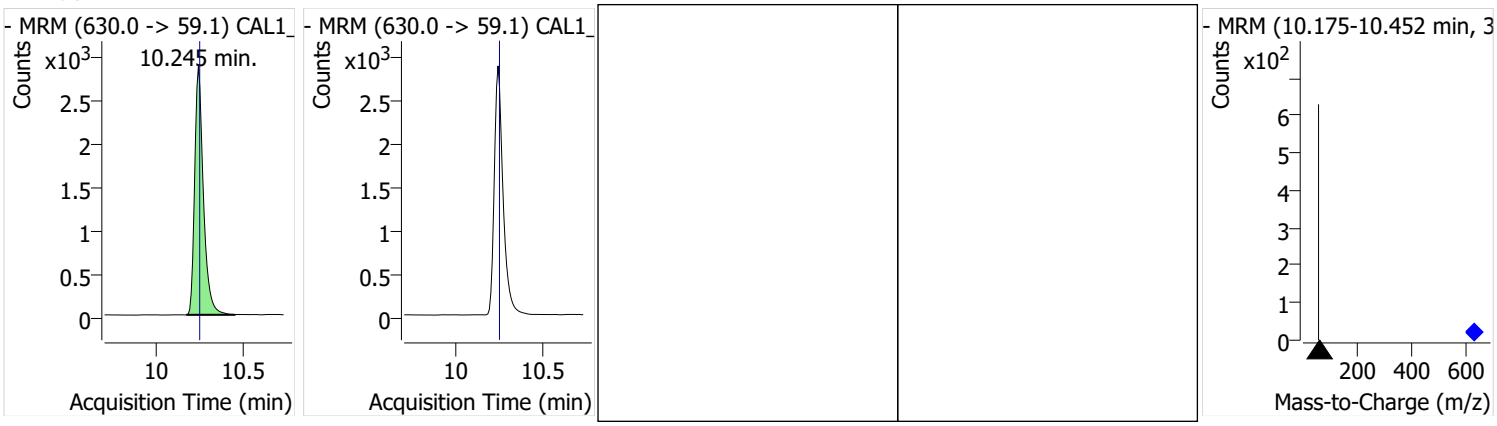

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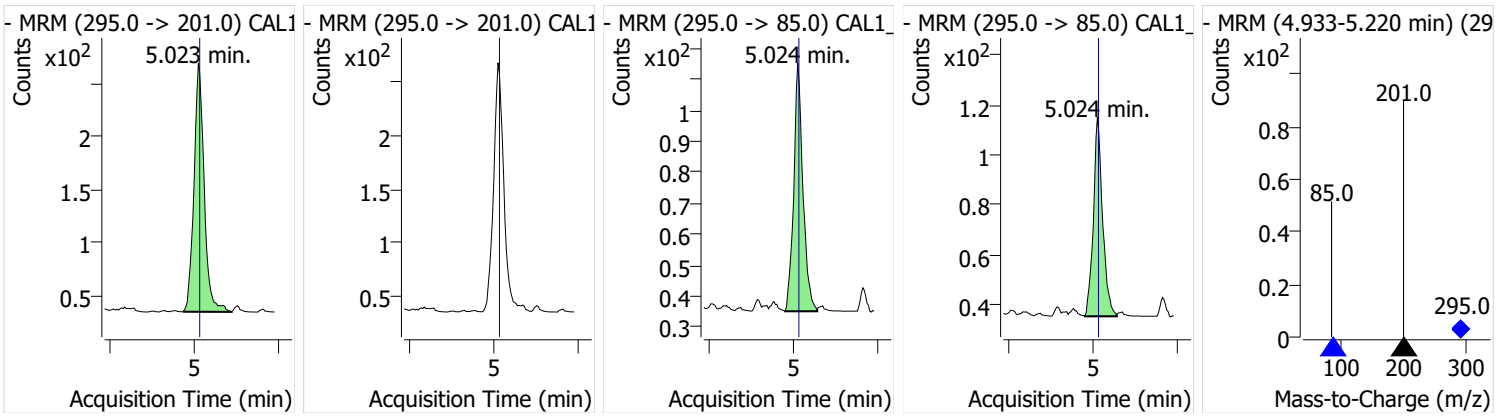

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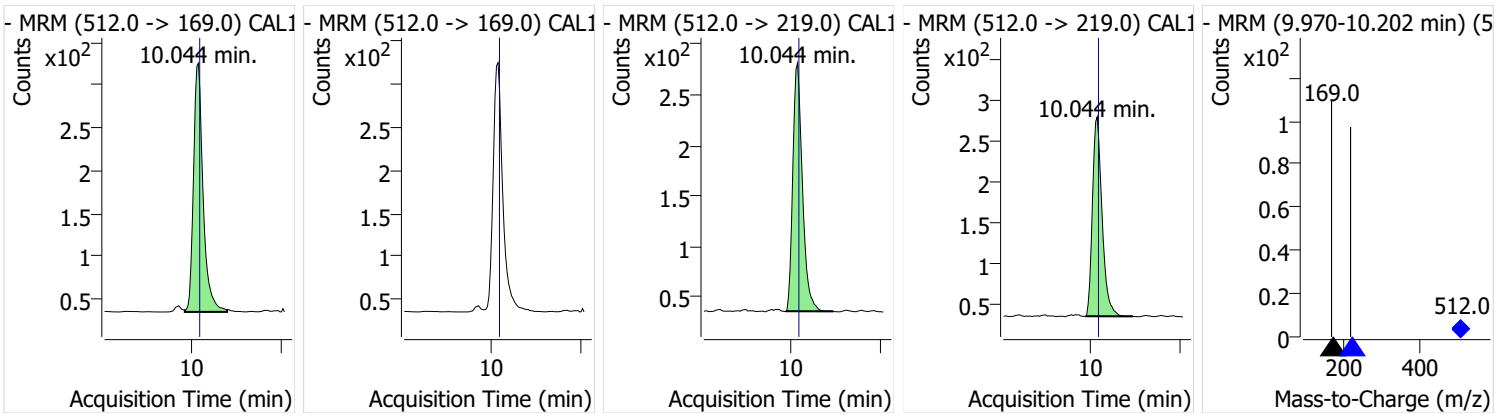

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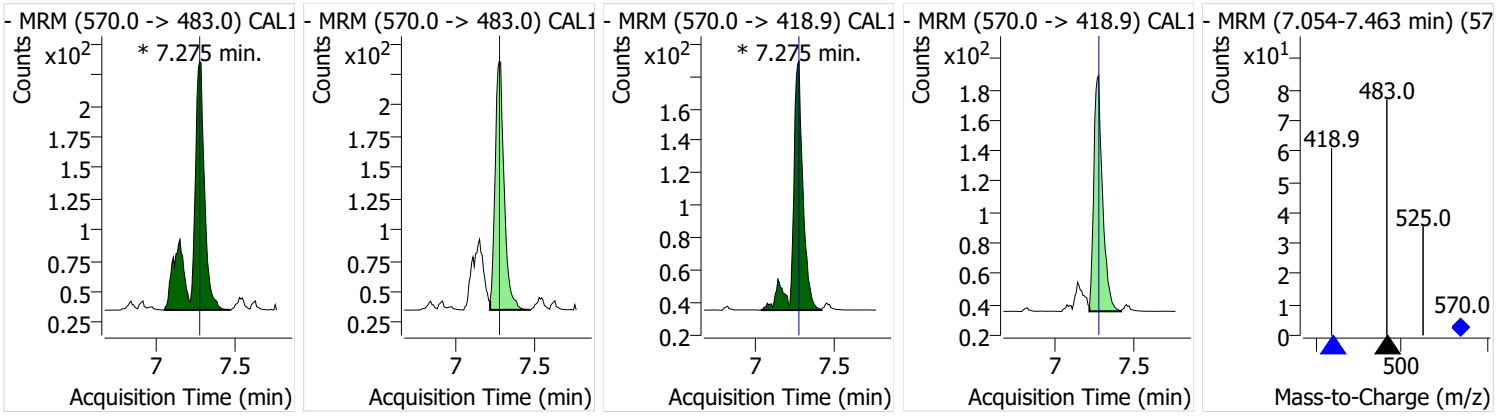

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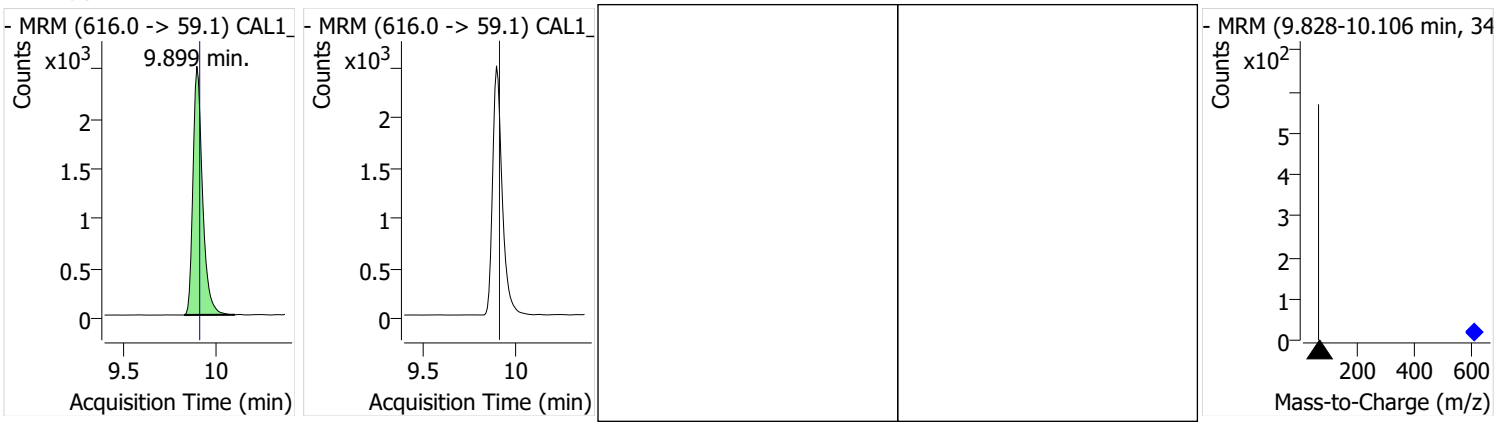
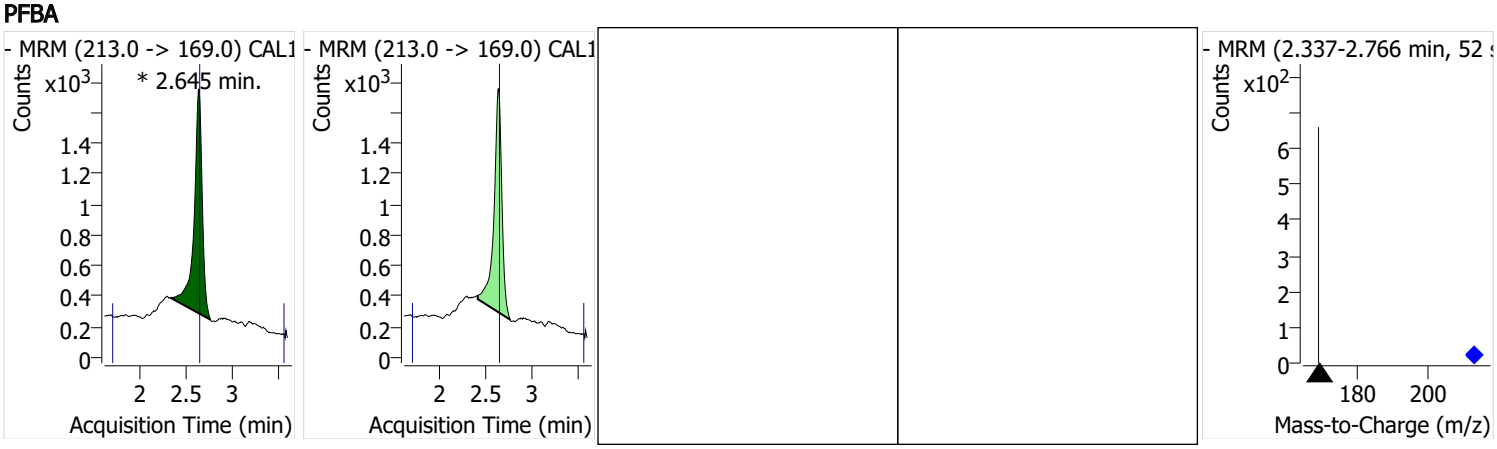
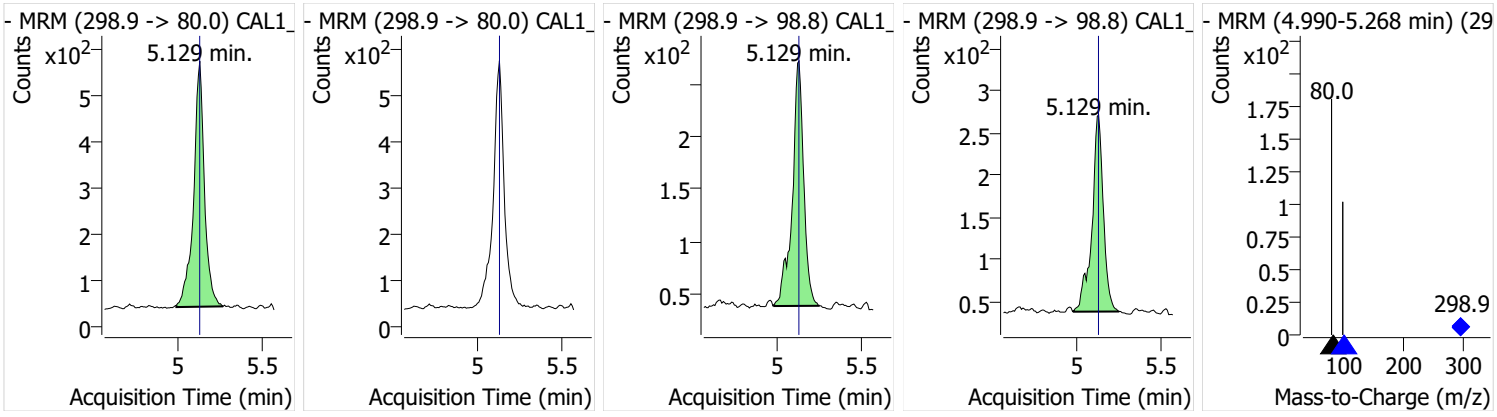


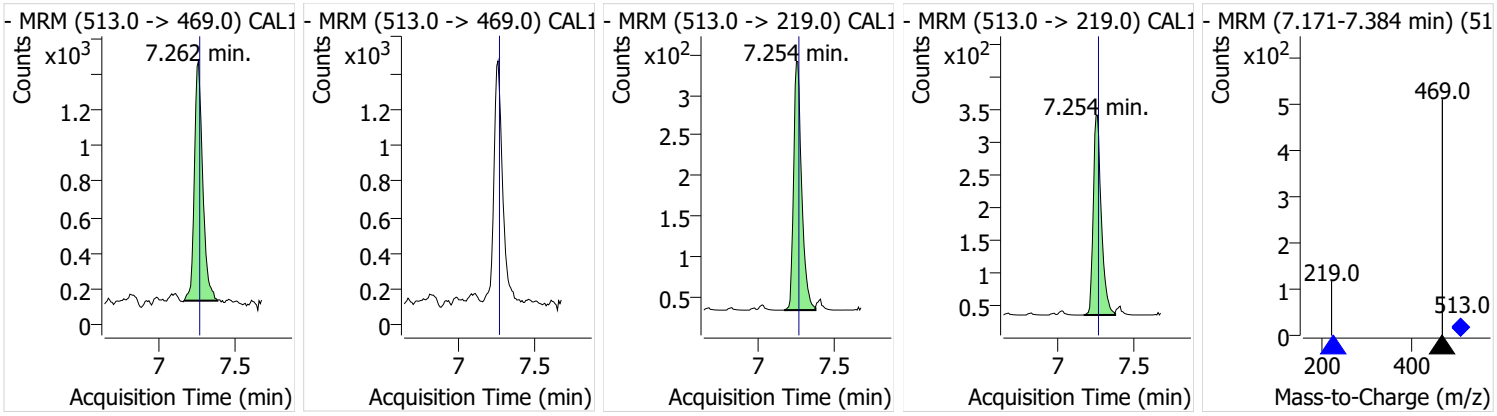
PFBA



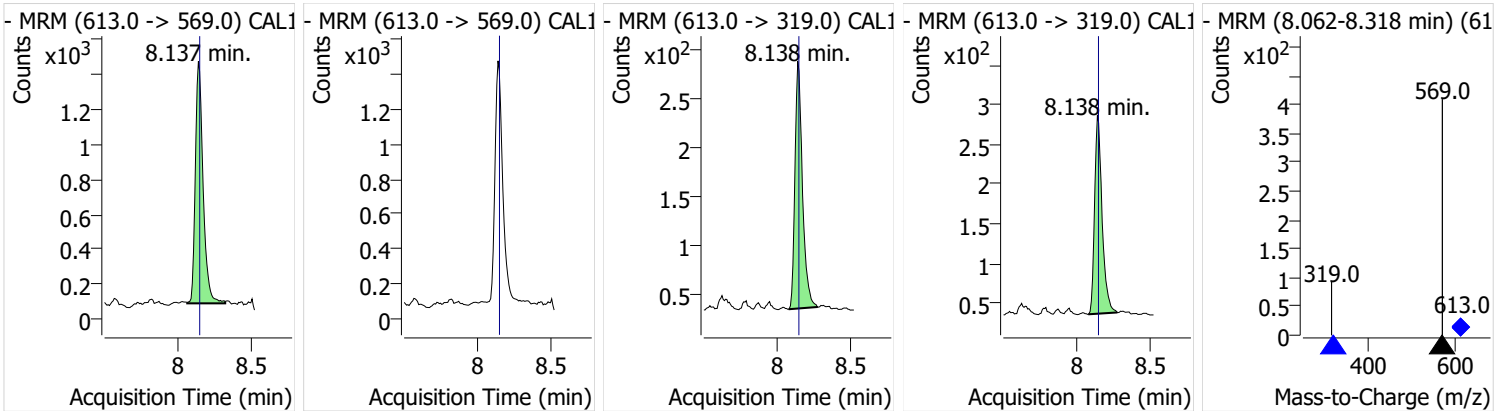
PFBS



PFDA



PFDoA



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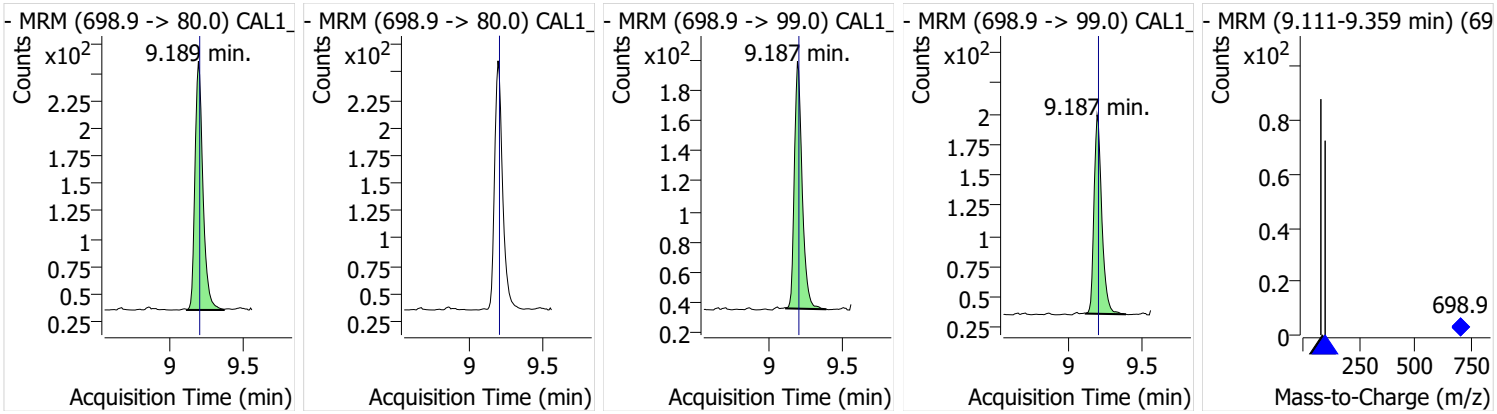

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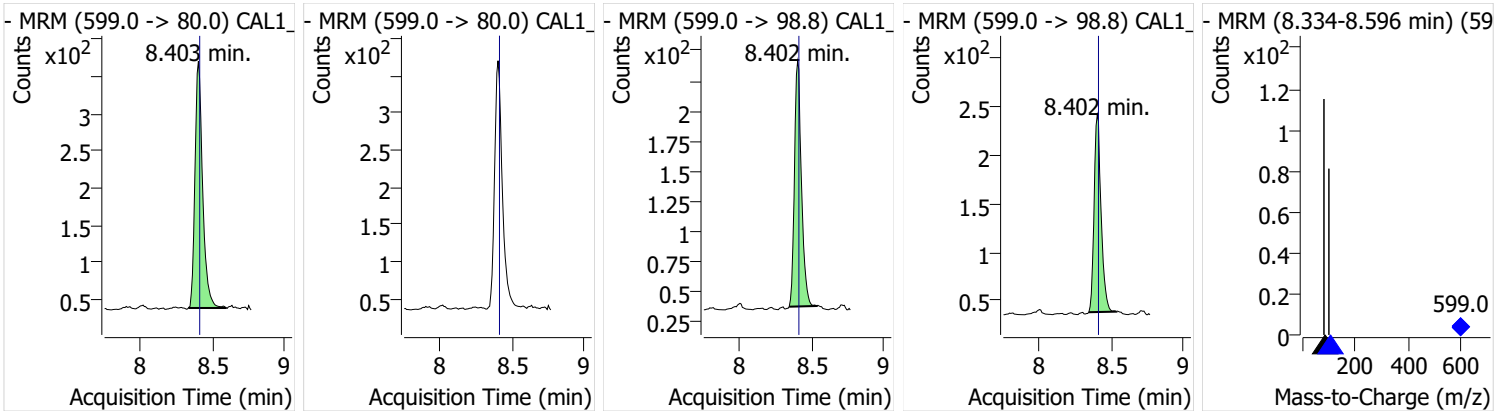

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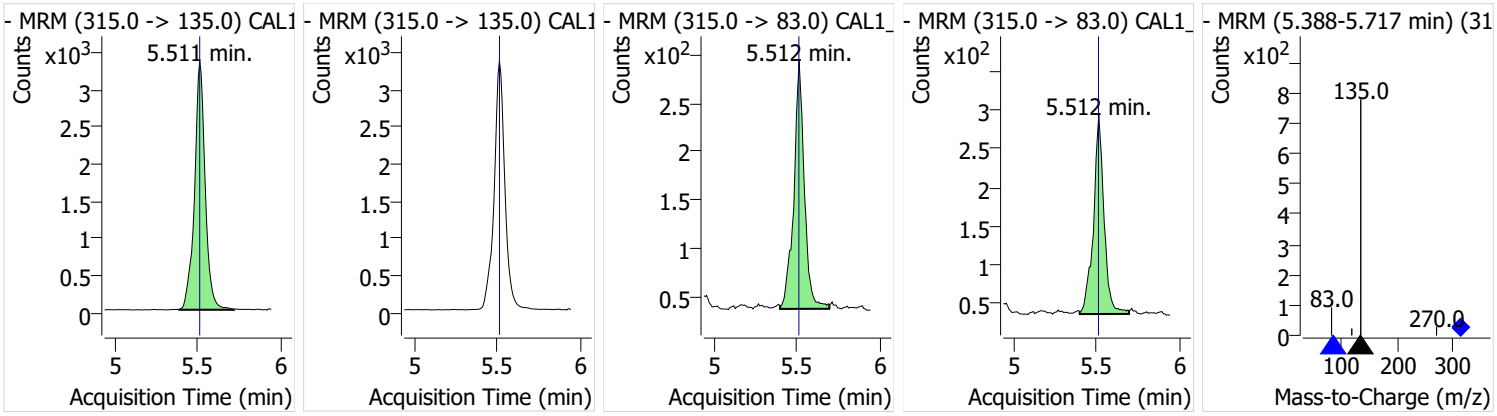
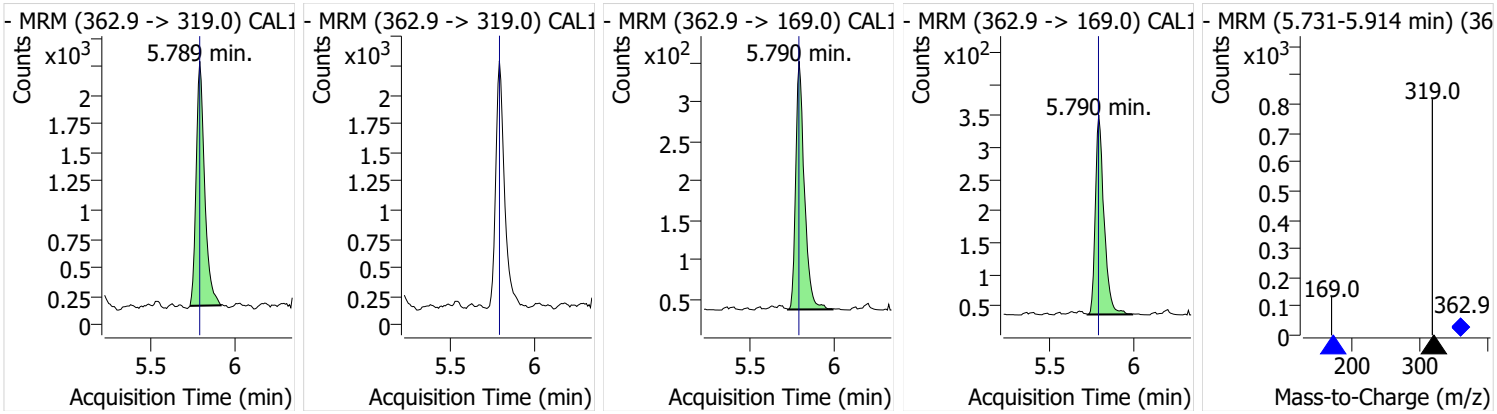
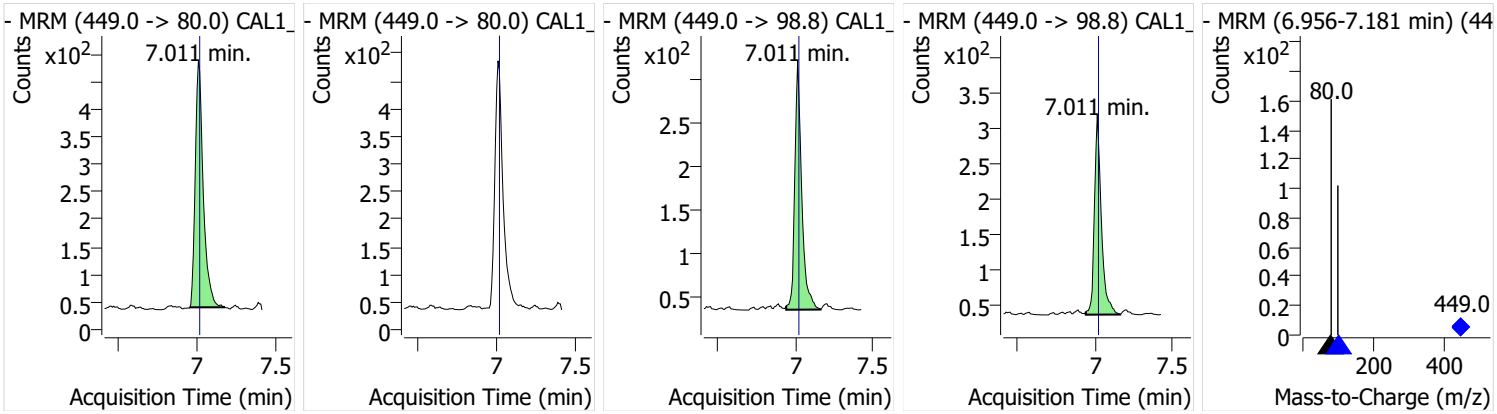


PFHpA



PFHpS



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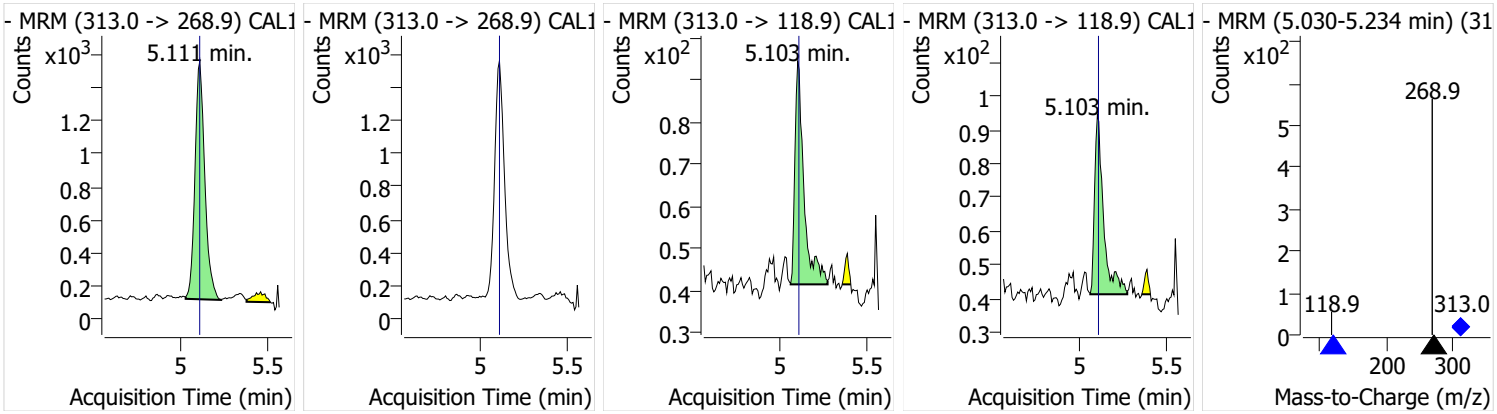

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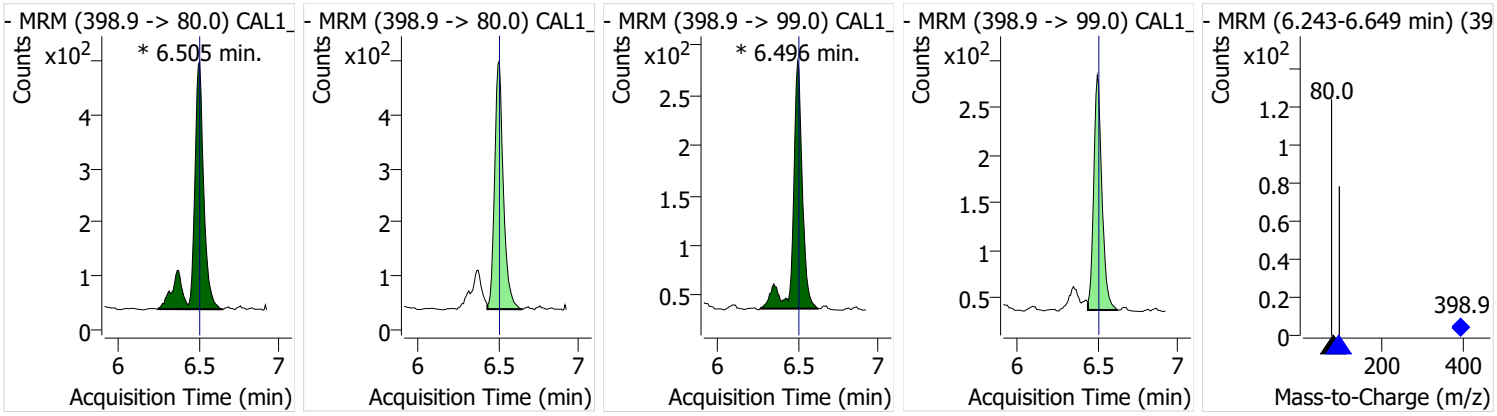

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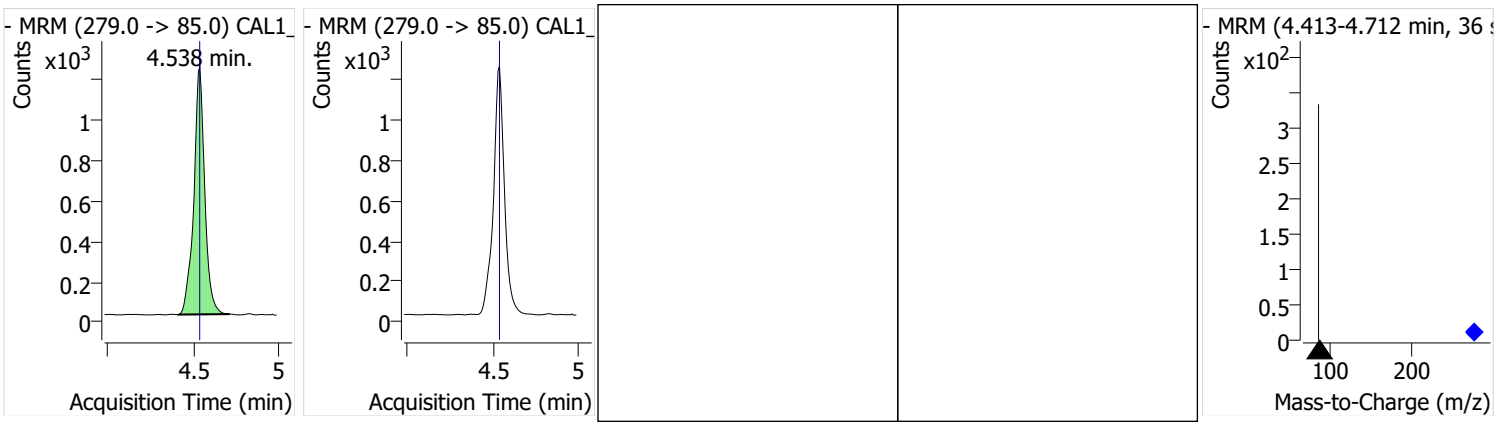

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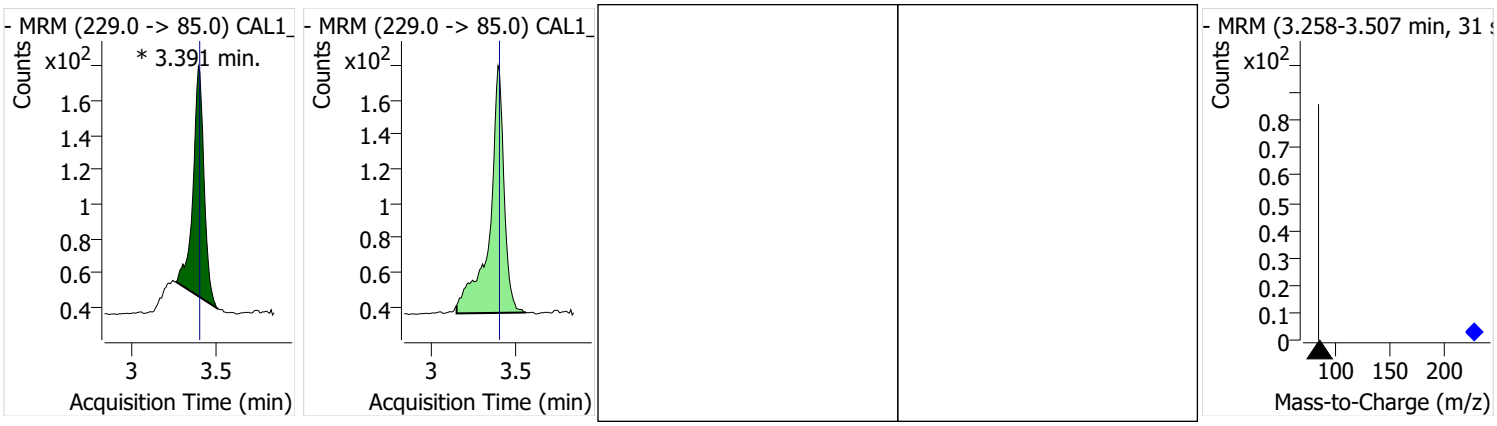

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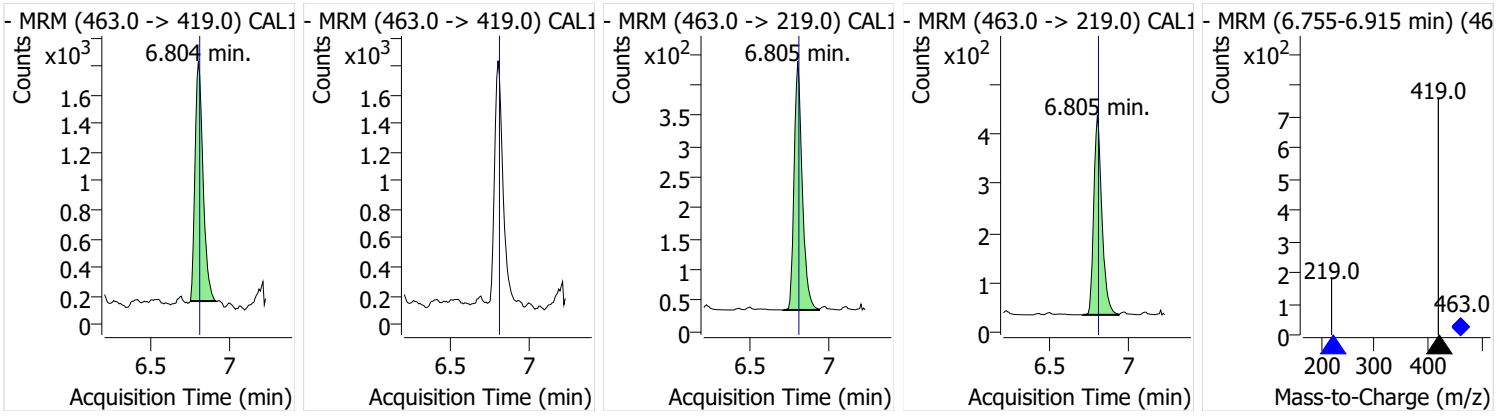

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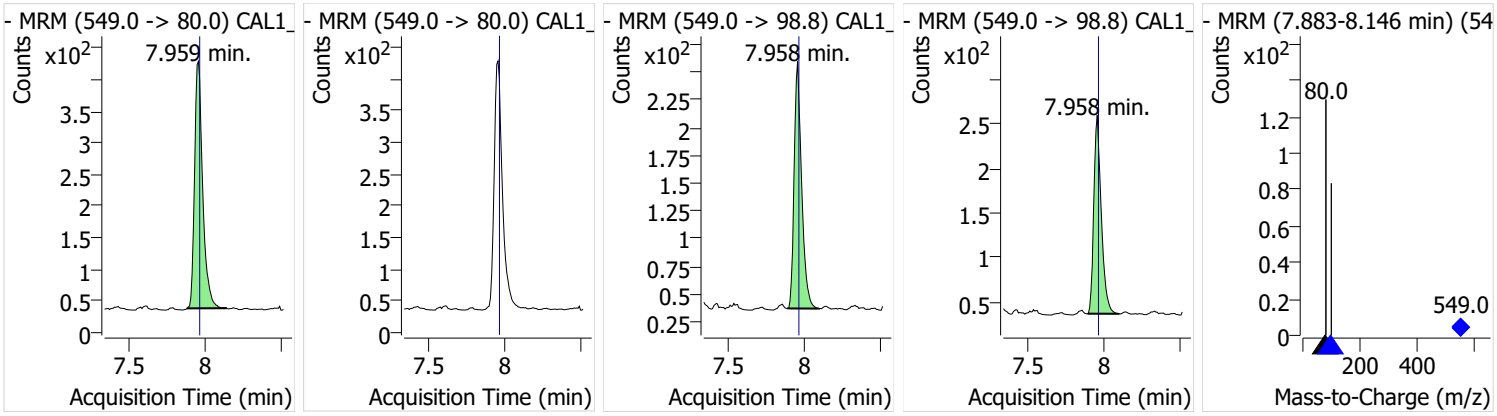

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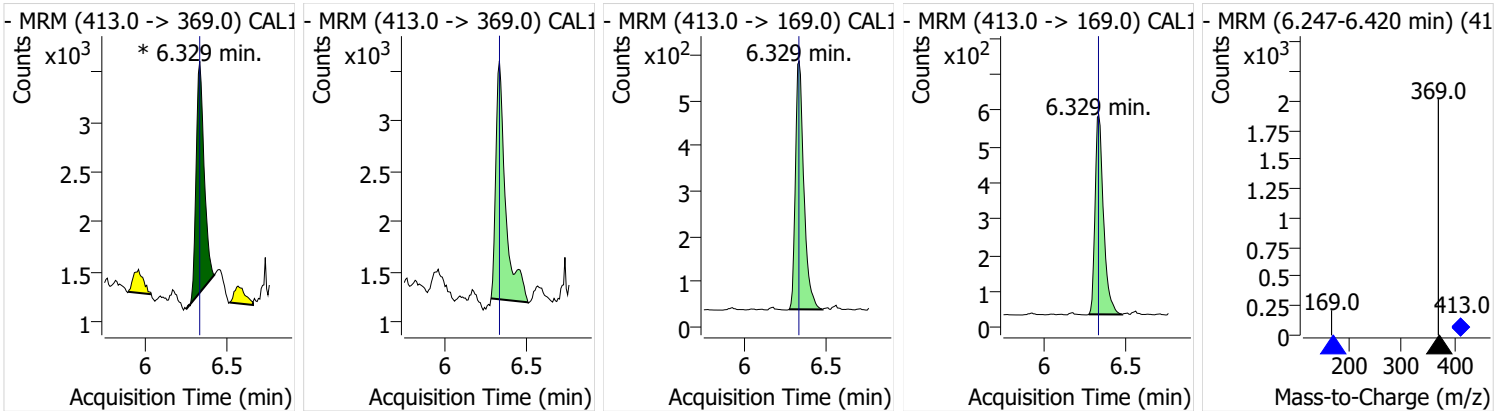

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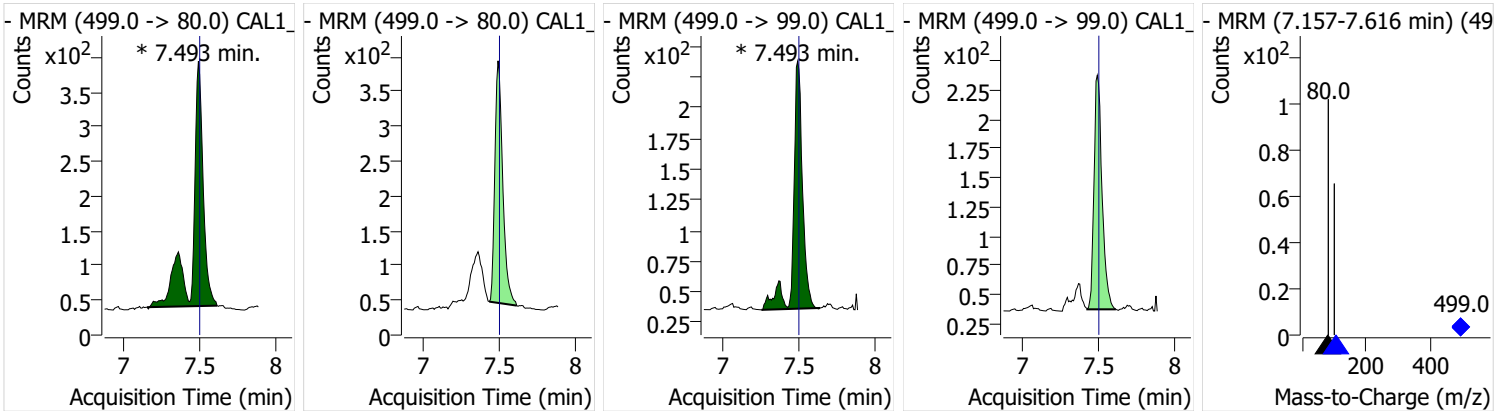

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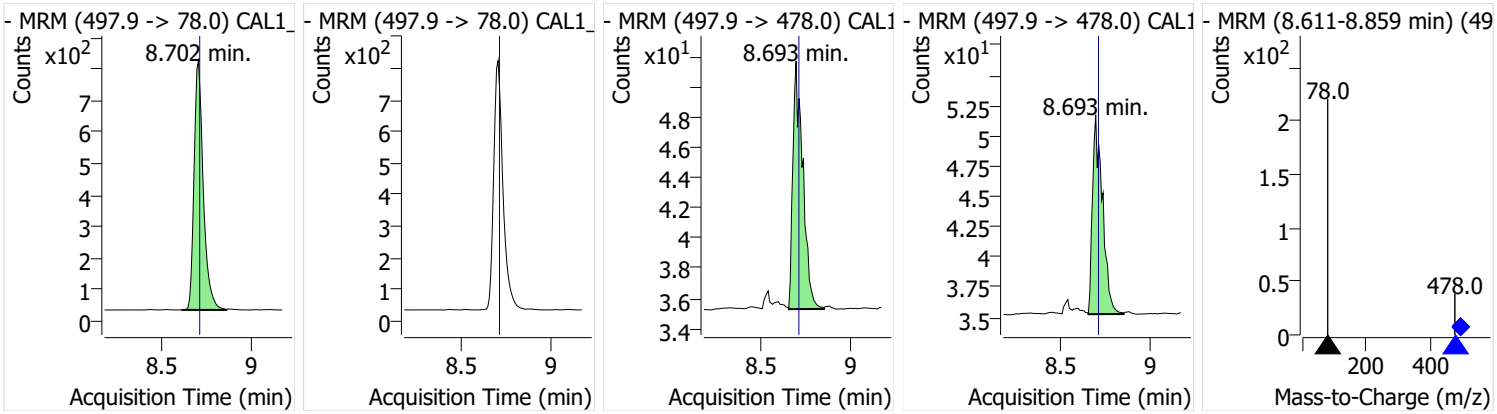

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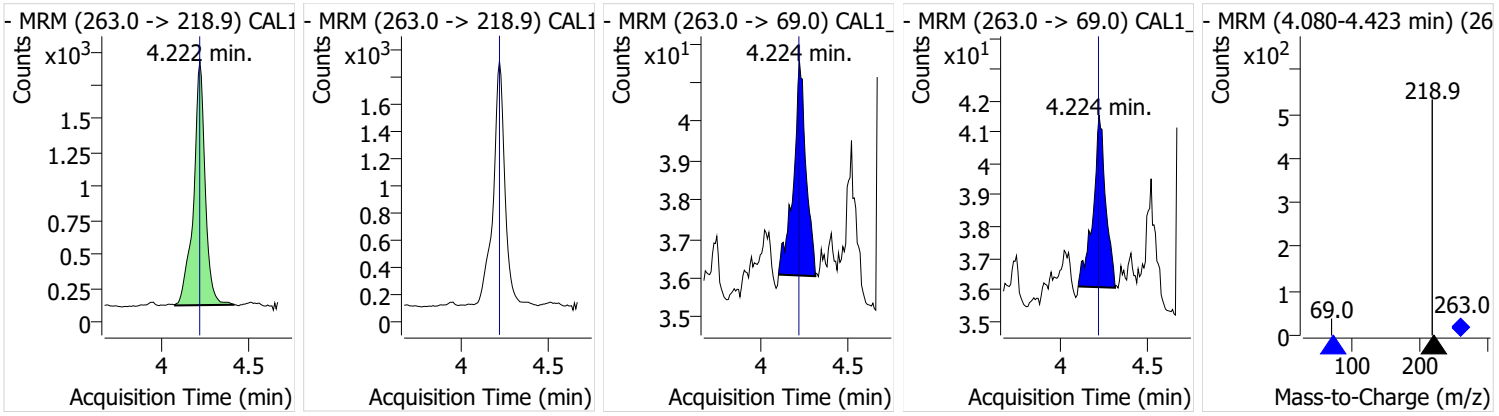

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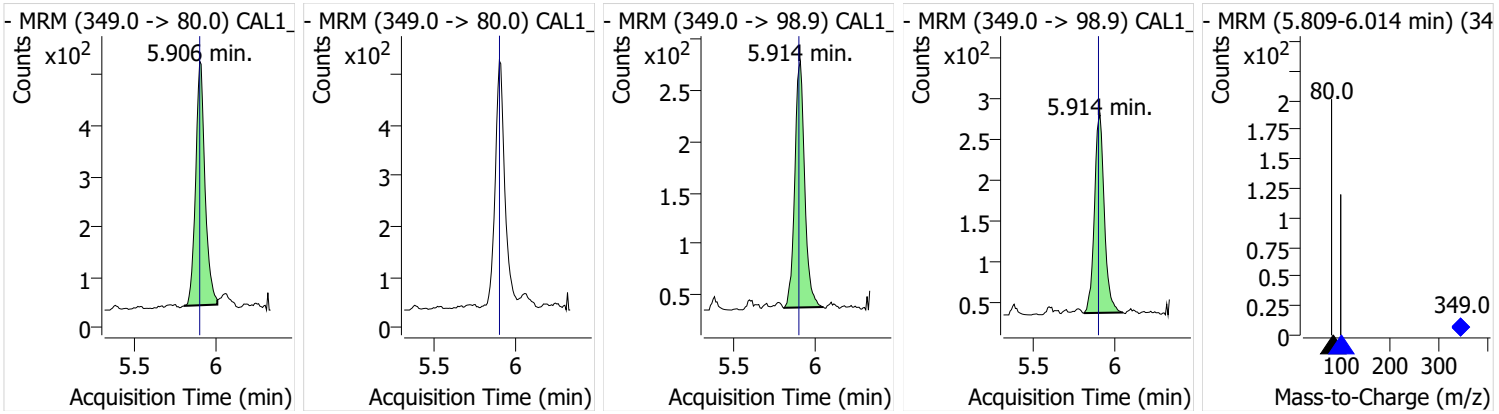

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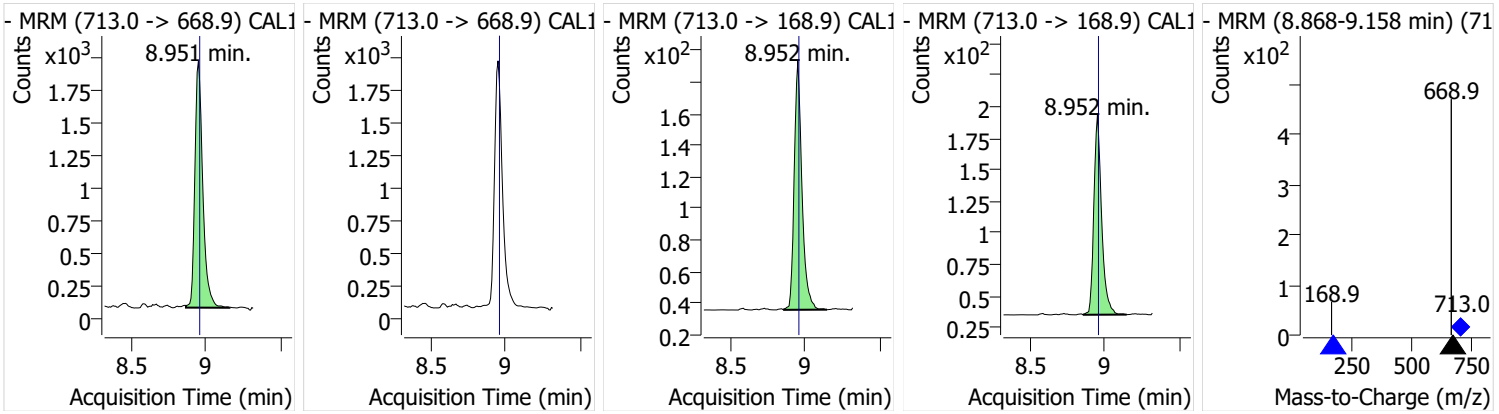

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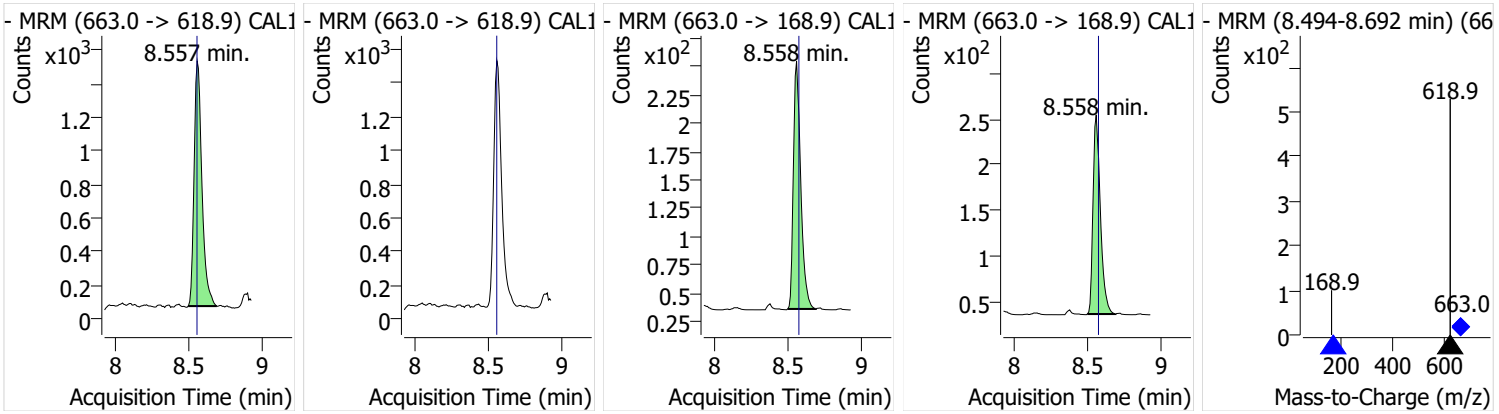

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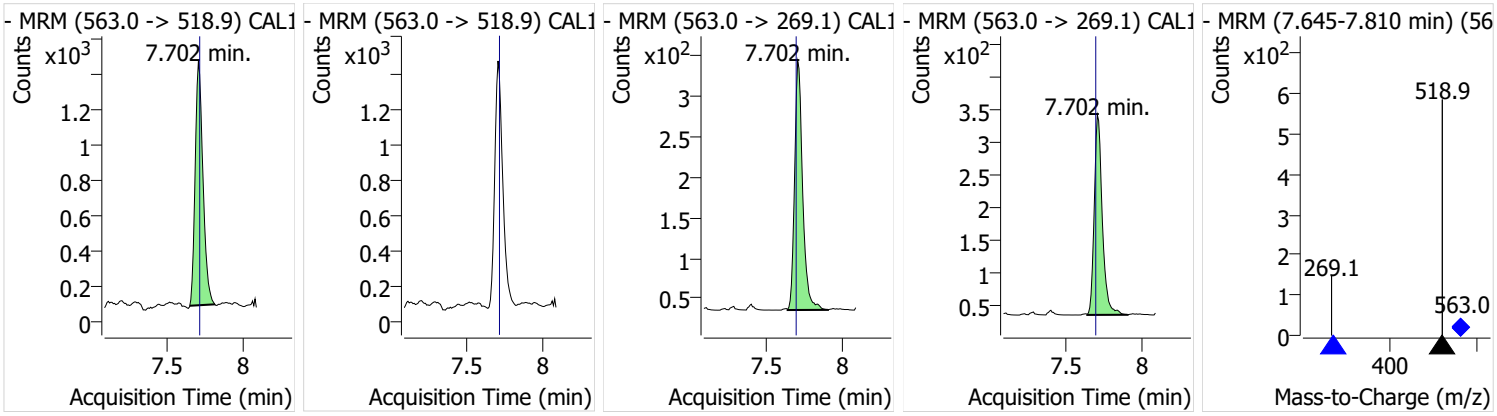

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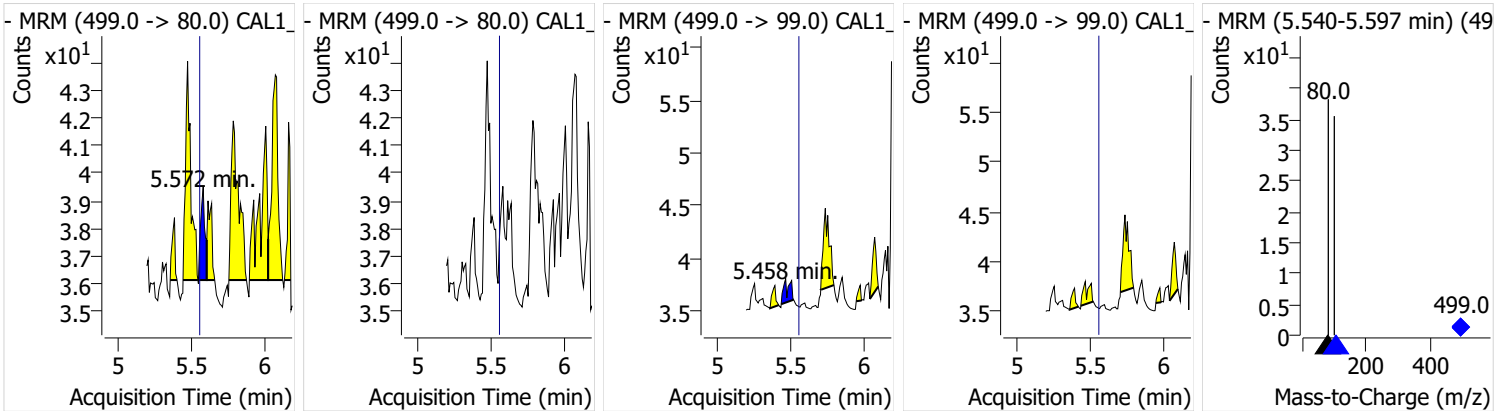

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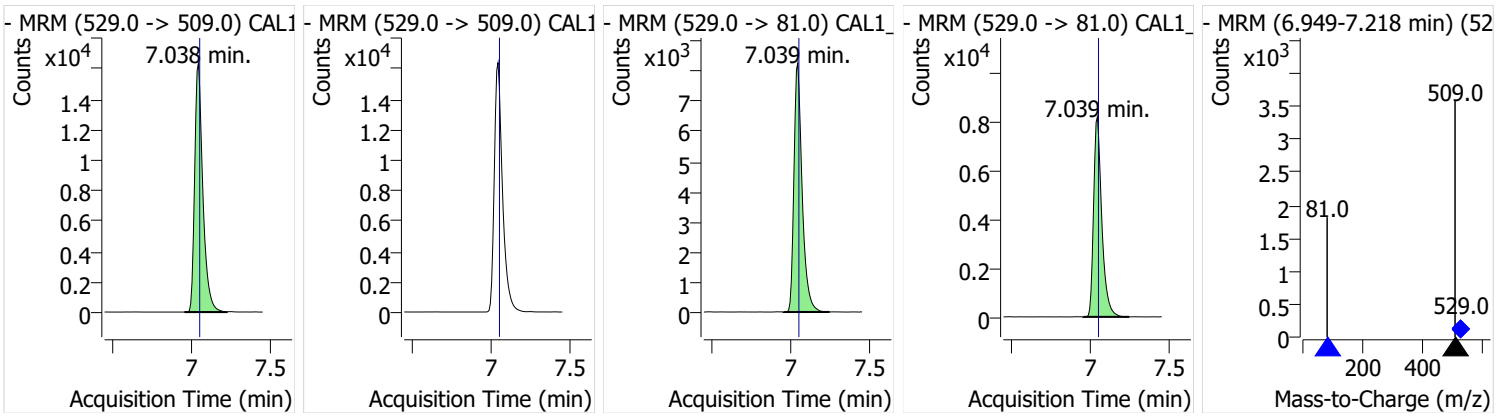

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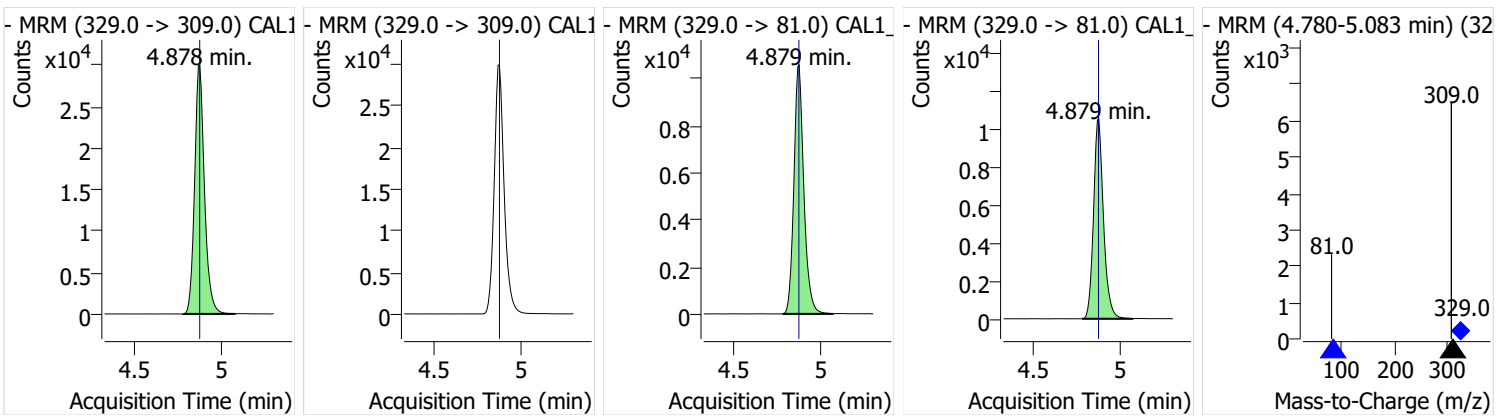
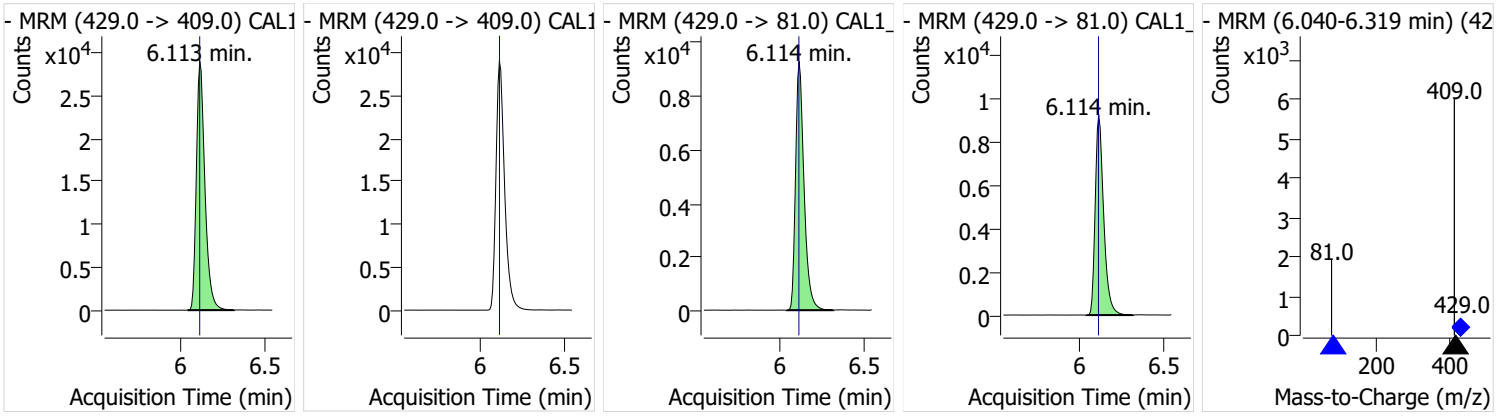


13C2-6:2FTS



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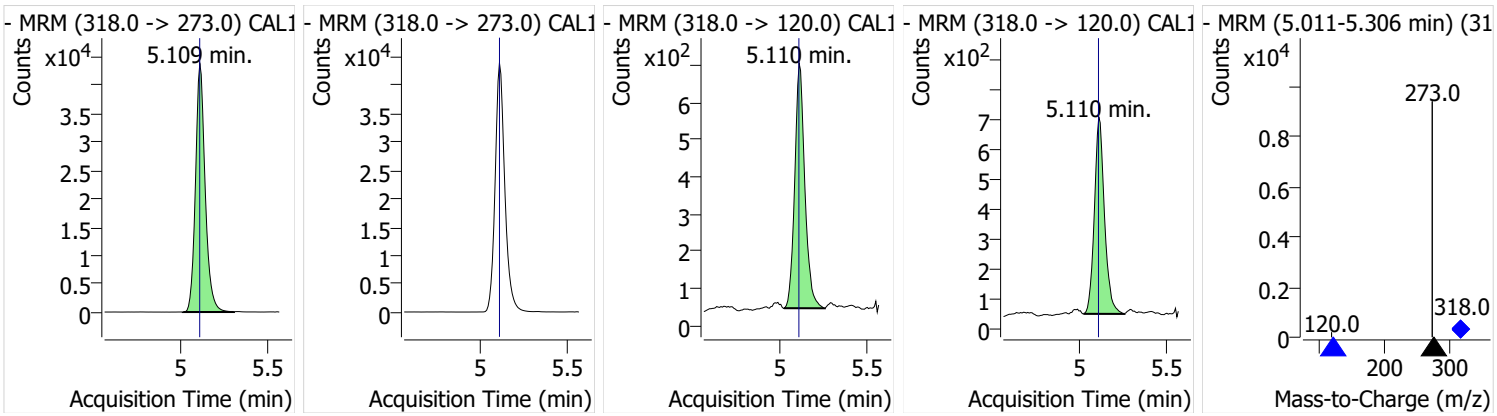

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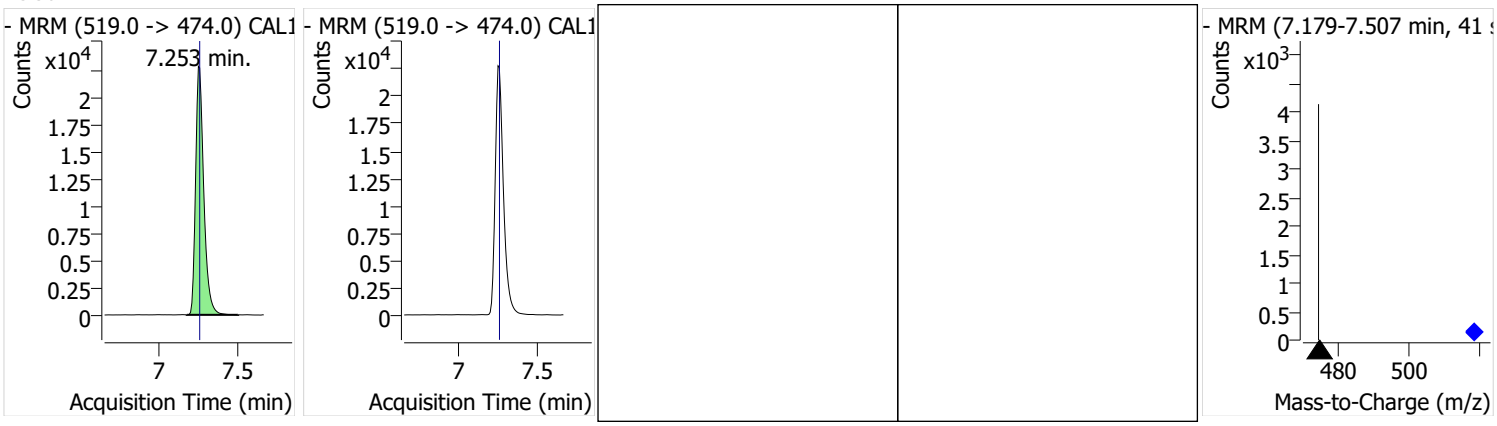

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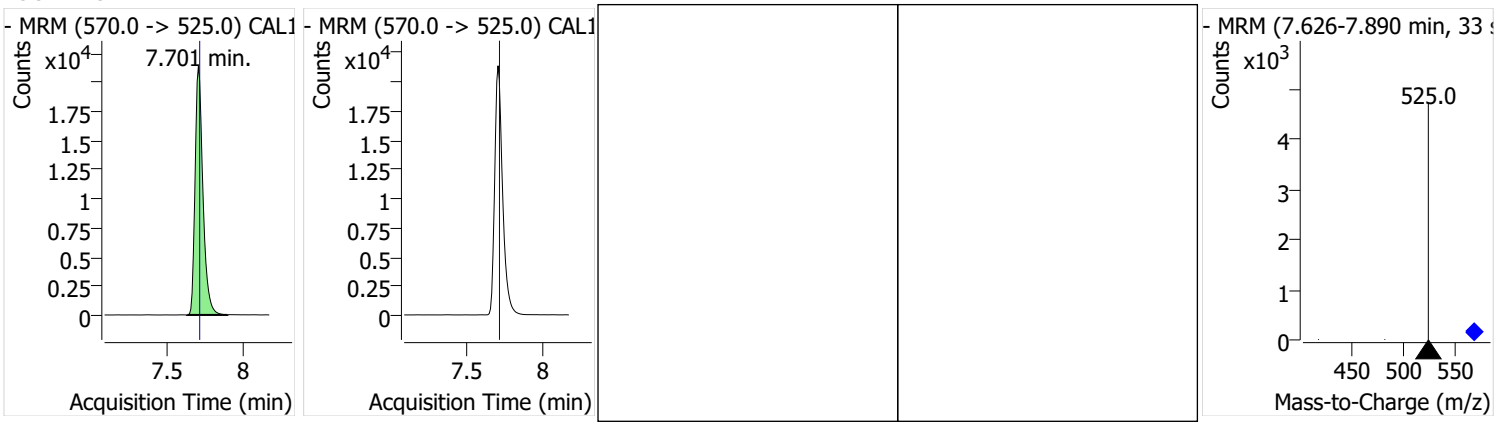

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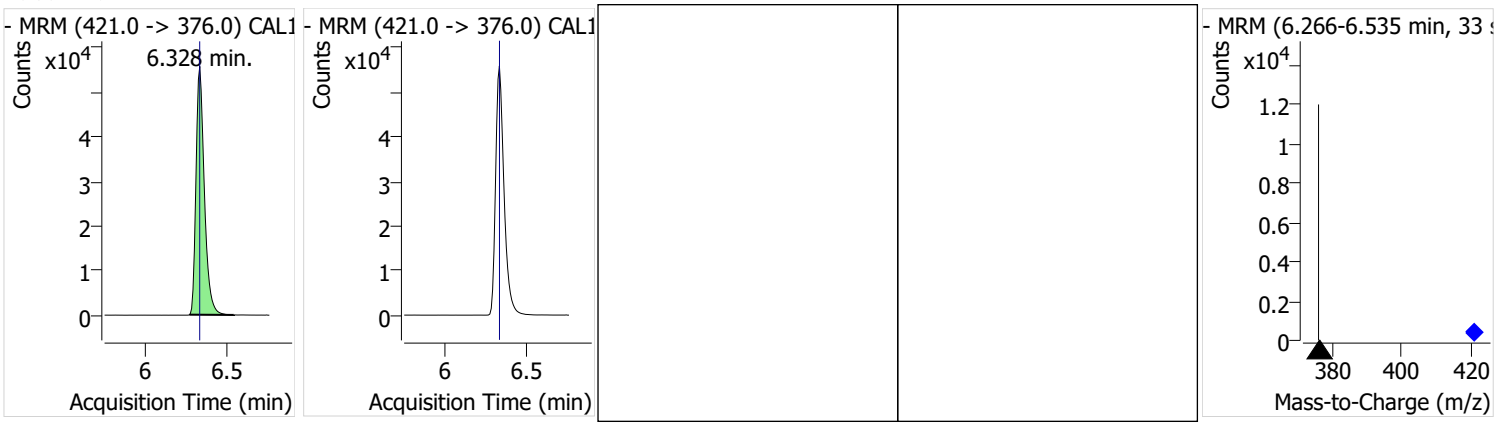

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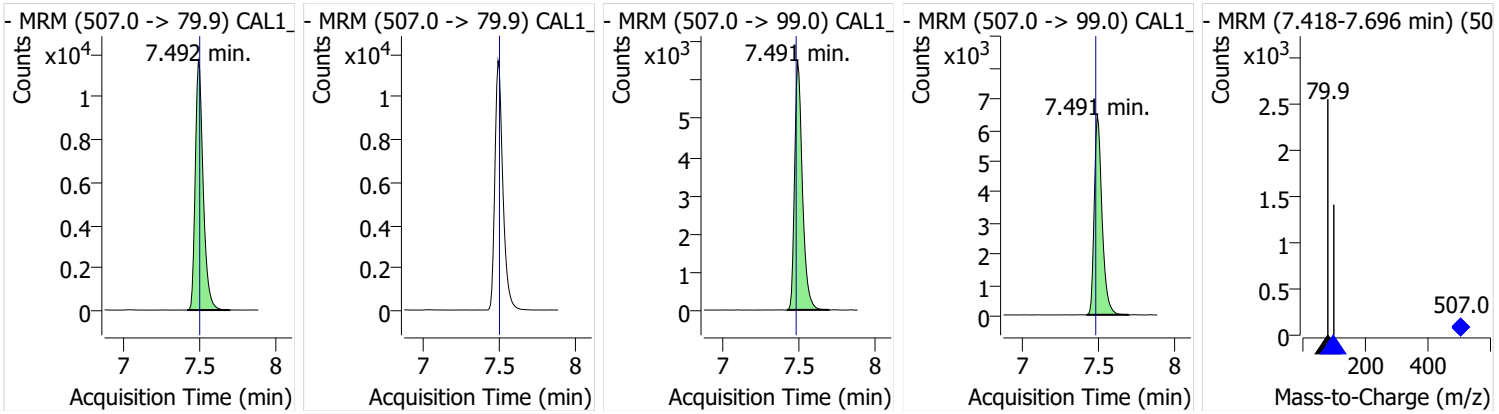

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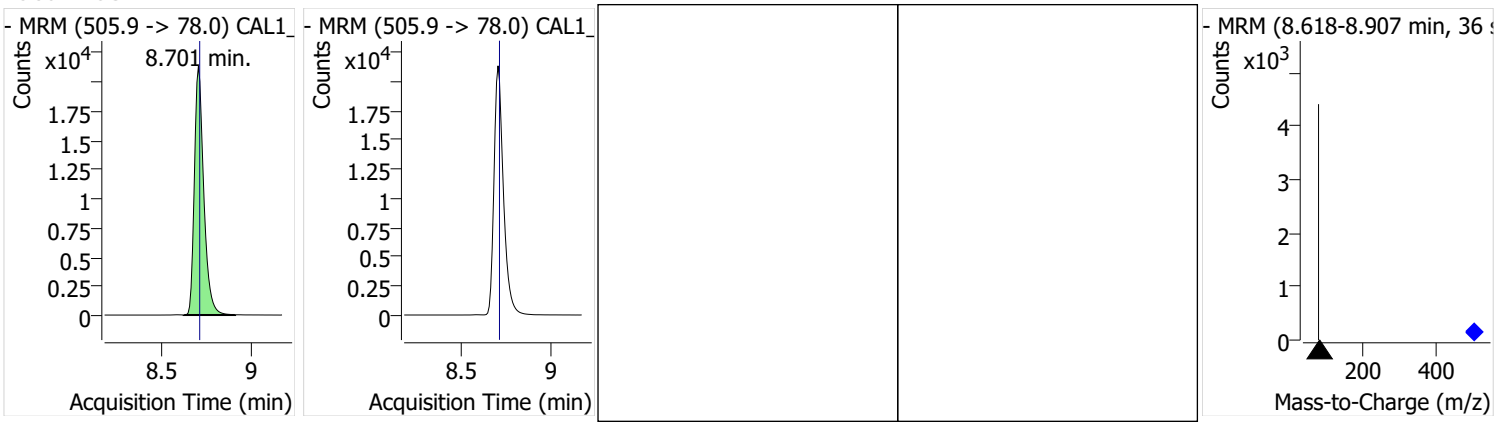

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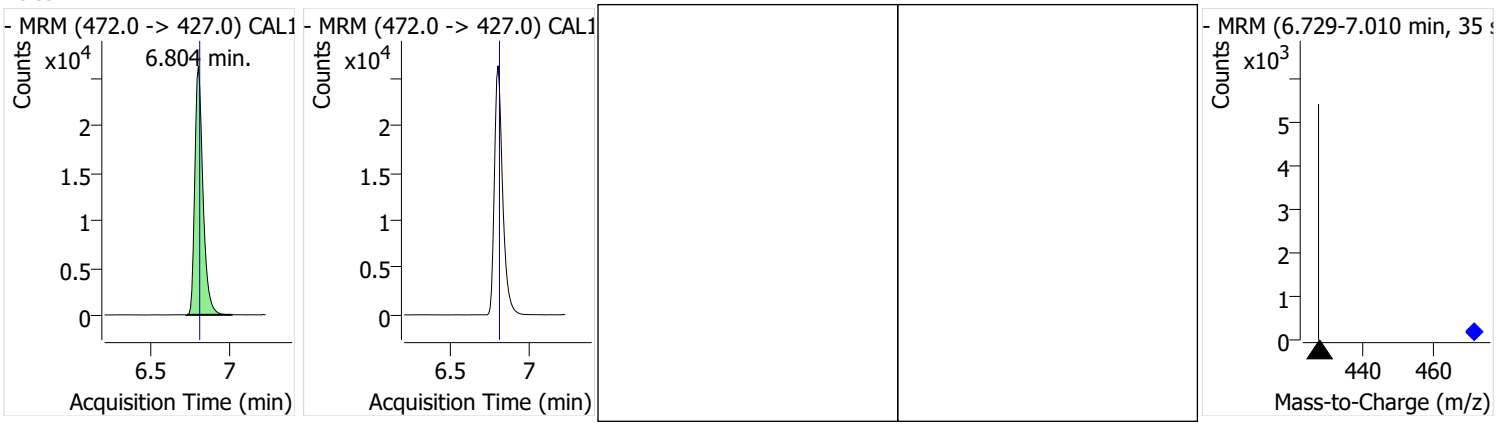

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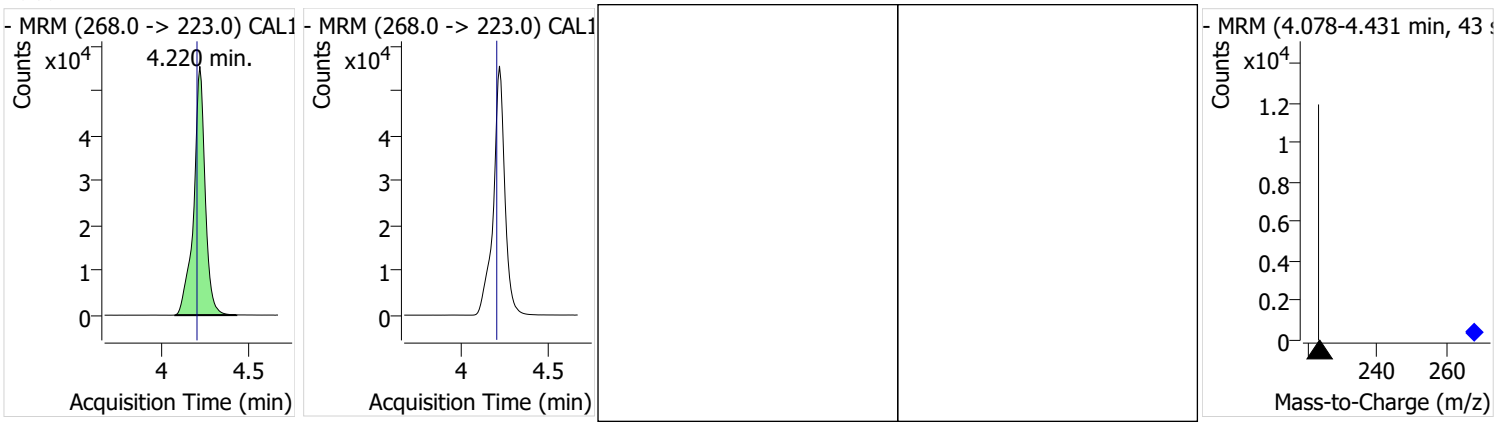

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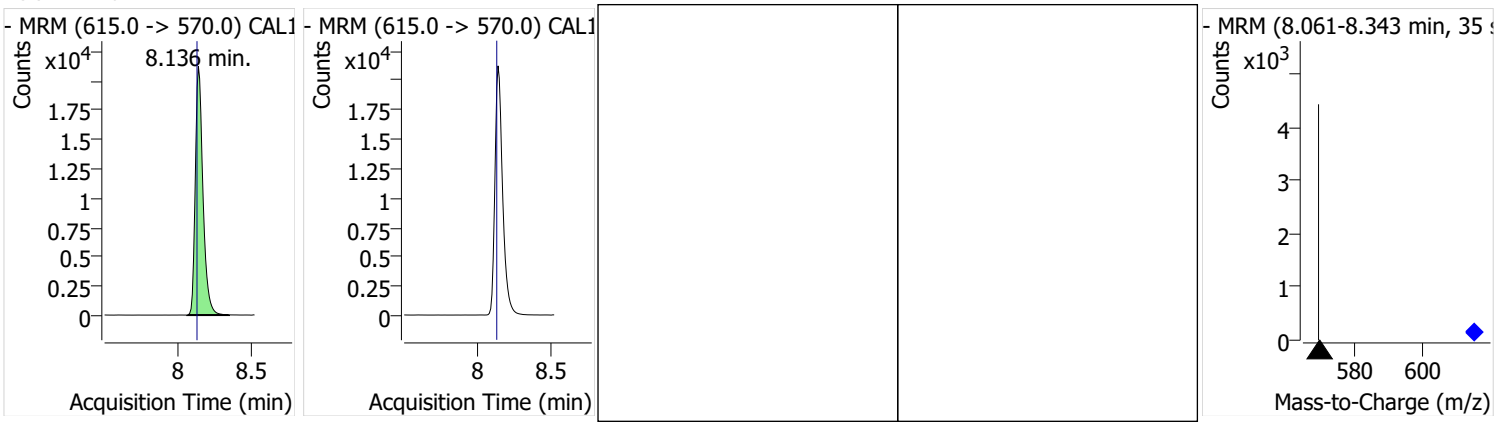

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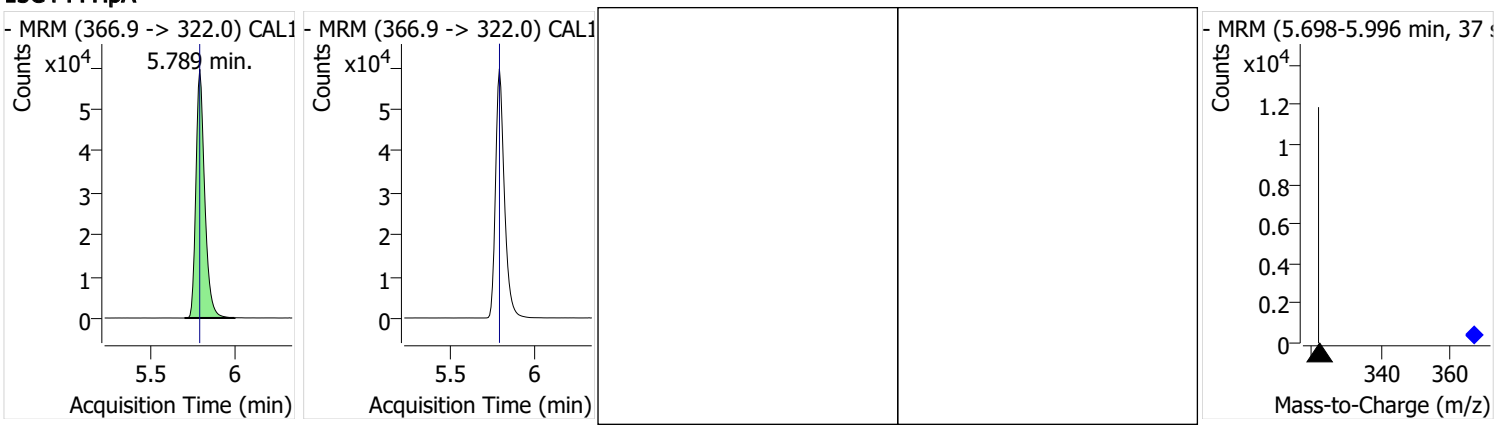

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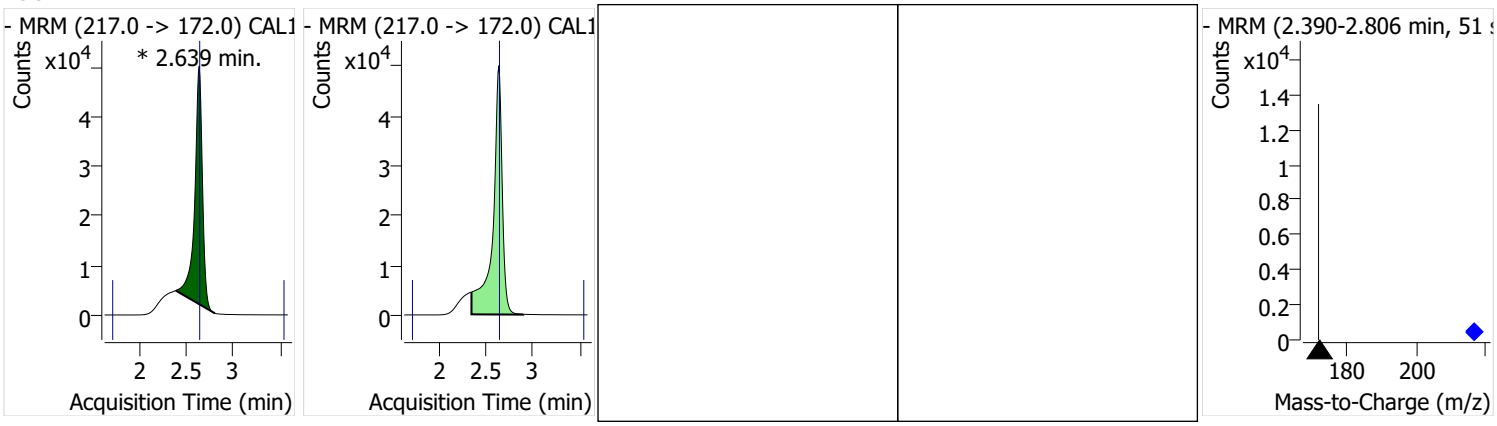

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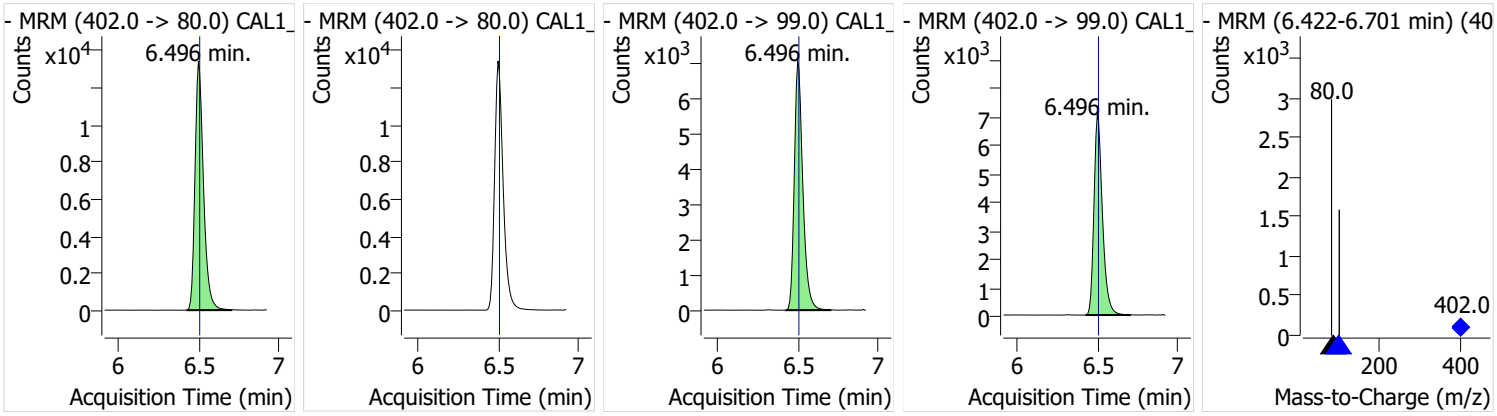

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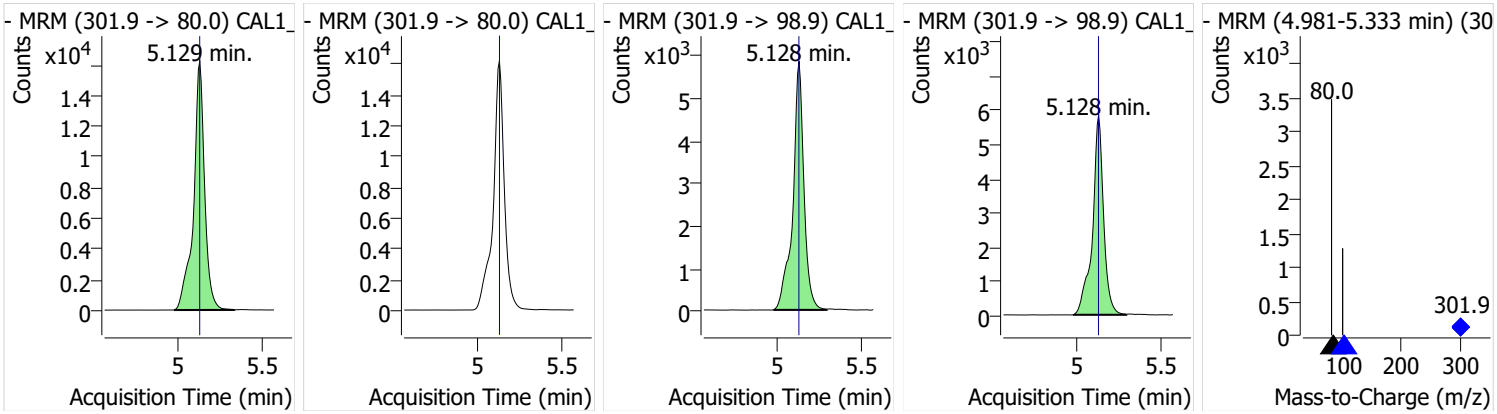

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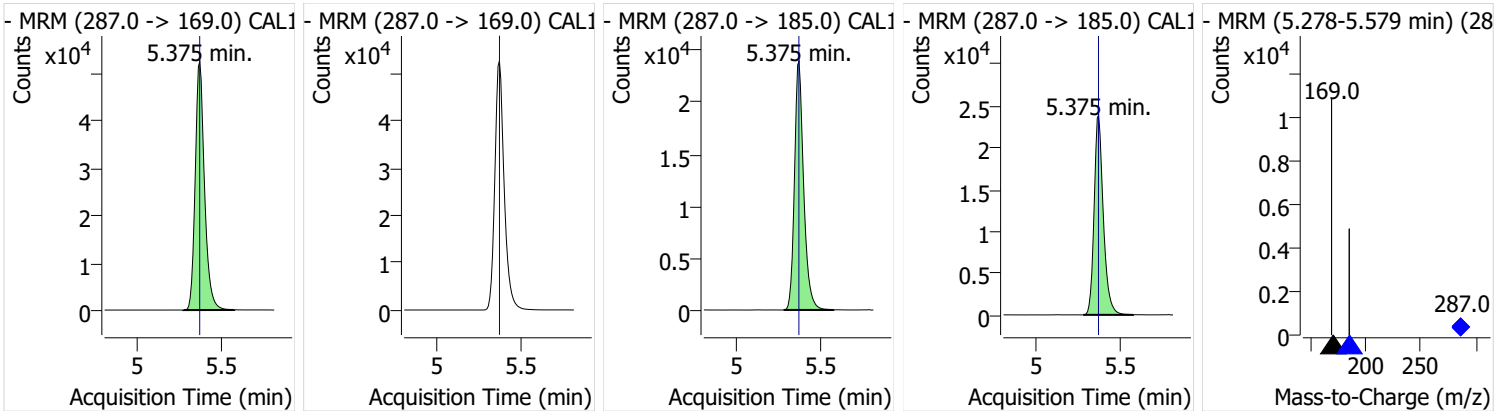

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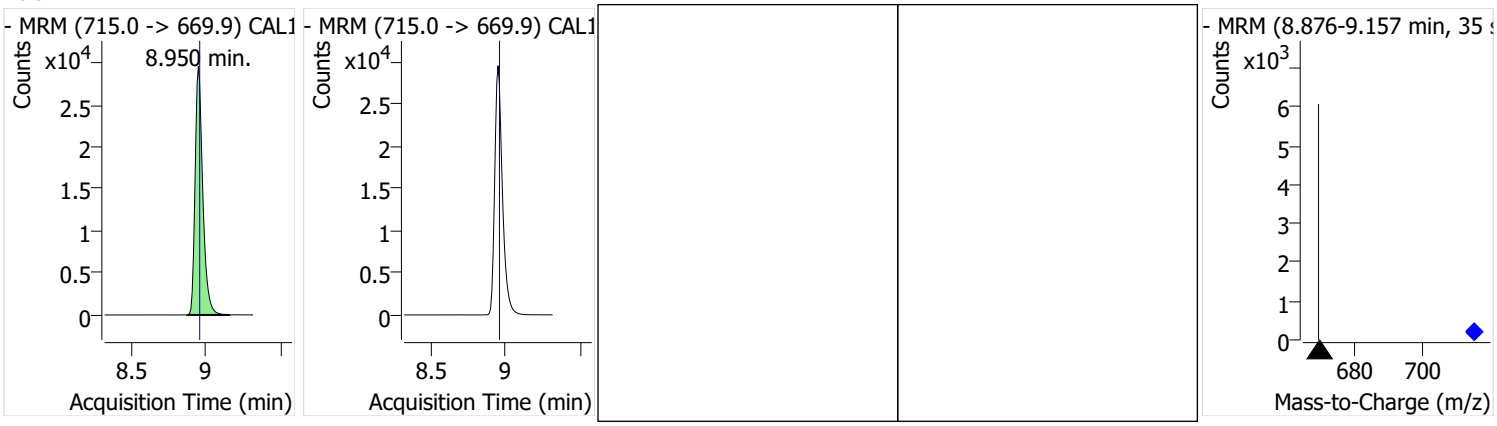

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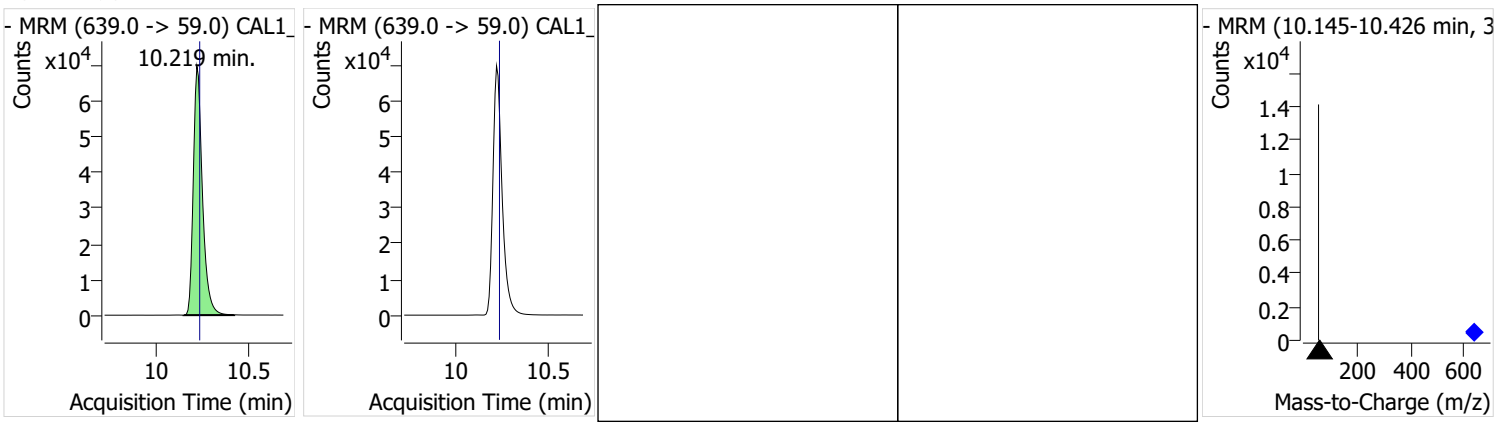

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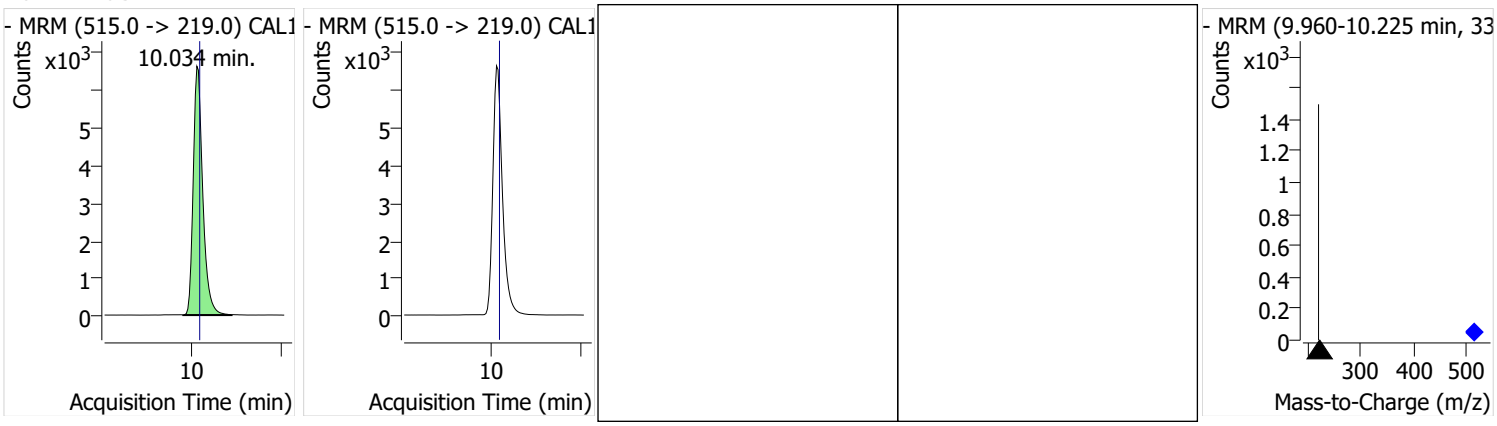

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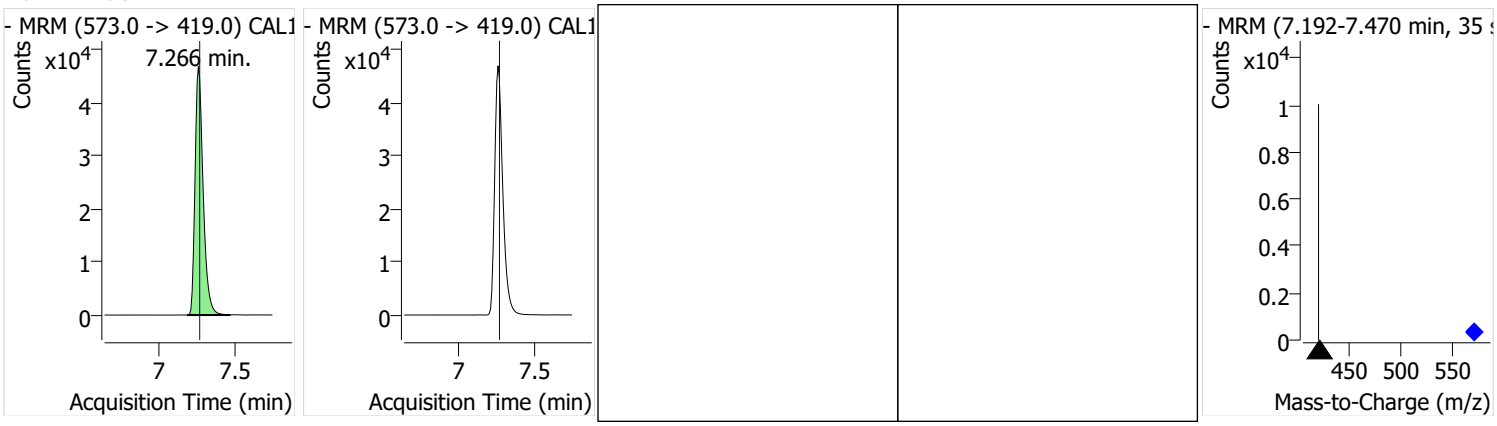

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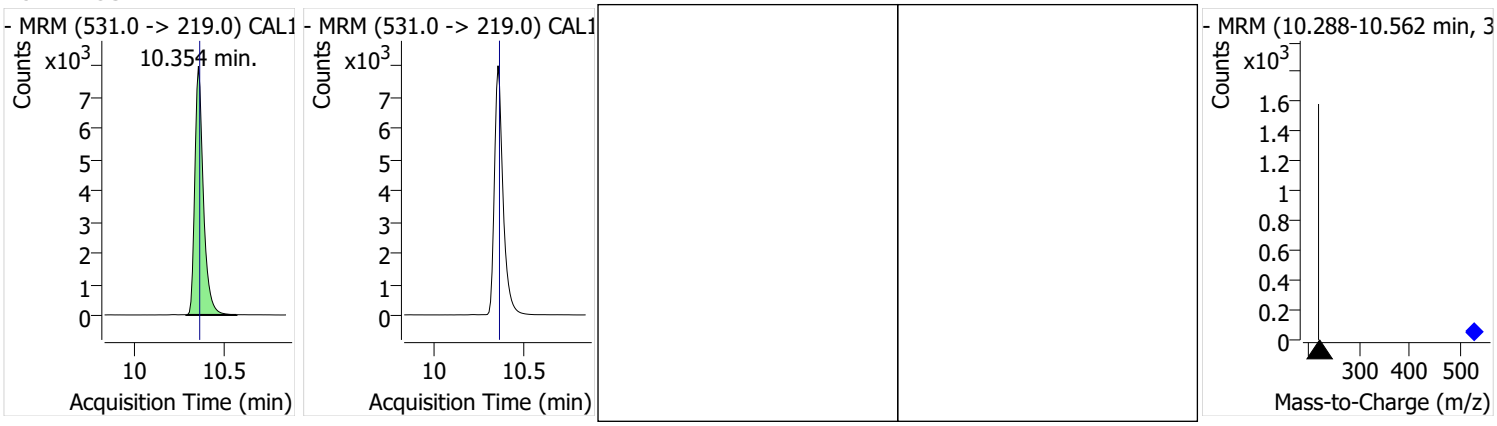

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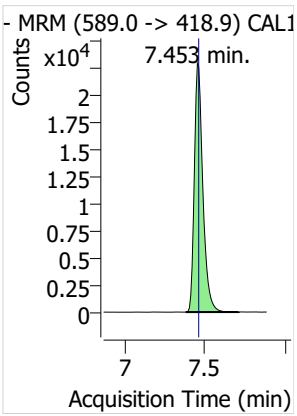

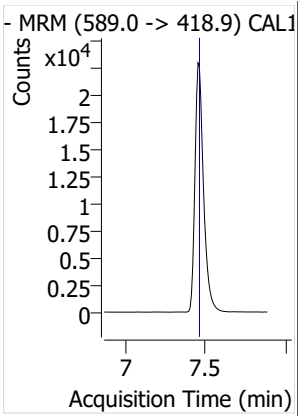

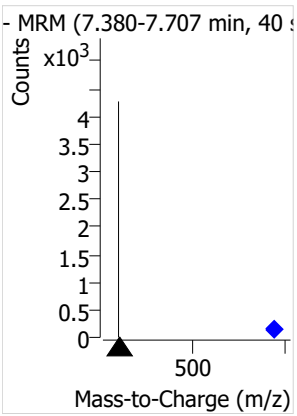

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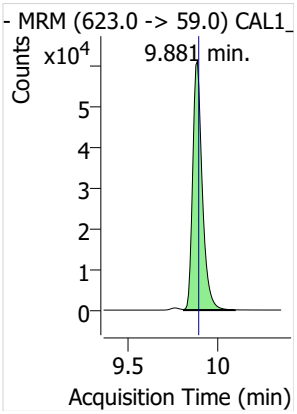

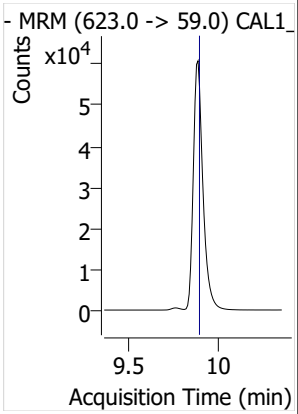

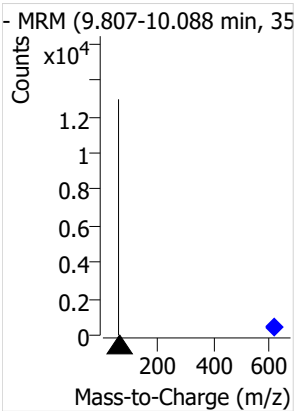

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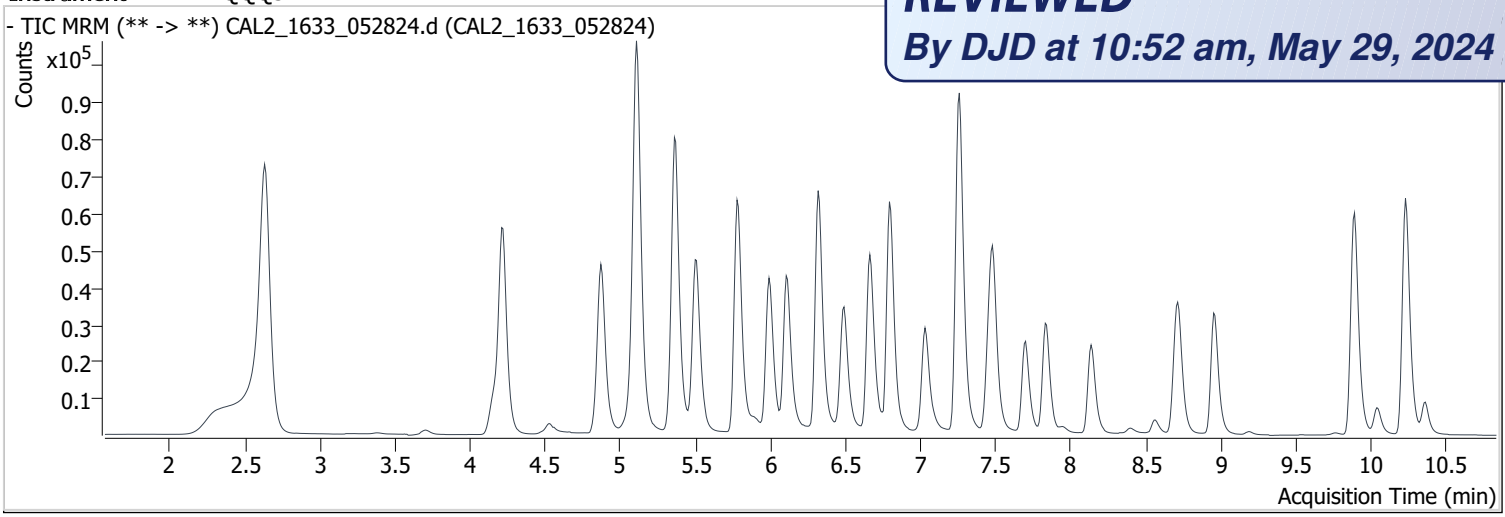
Acq. Time	5/28/2024 10:11 AM	**Data File**	CAL2_1633_052824.d
Sample Type	Cal	**Sample Name**	CAL2_1633_052824
Dilution	1	**Acq. Method**	1633_ACQUISITION.m
Sample Comment	E#24E0155	**Processing method**	1[illegible]
Instrument	QQQ5		

REVIEWED
By DJD at 10:52 am, May 29, 2024



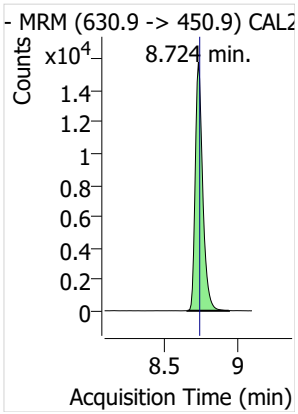
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
11Cl-PF3OUdS	8.724	55629	11019.40		13C3-HFPODA - ISTD	5.367	191638	0.7676	ng/ml			
633.0 -> 453.0			9059.63	19.7								
3:3FTCA	3.707	3735	1895.91		13C5-PFPeA - ISTD	4.212	238296	1.7832	ng/ml			
241.0 -> 117.0			222.77	50.5								
4:2FTS	4.871	19039	9149.82		13C2-4:2FTS - ISTD	4.870	39996	0.7565	ng/ml			
327.0 -> 80.9			1754.83	35.6								
5:3FTCA	5.501	73824	7357.33		13C5-PFHxA - ISTD	5.109	159773	8.9975	ng/ml			
341.0 -> 217.0			12828.87	91.2								
6:2FTS	6.106	12994	78804.68		13C2-6:2FTS - ISTD	6.105	29693	0.7697	ng/ml			
427.0 -> 80.9			1265.82	34.7								
7:3FTCA	6.666	91029	6098.48		13C5-PFHxA - ISTD	5.109	159773	8.8589	ng/ml			
441.0 -> 317.0			4850.97	90.6								
8:2FTS	7.031	7449	59841.39		13C2-8:2FTS - ISTD	7.030	28632	0.7246	ng/ml			
527.0 -> 81.0			1113.97	67.0								
9Cl-PF3ONS	7.835	82859	4609.54		13C3-HFPODA - ISTD	5.367	191638	0.7617	ng/ml			
533.0 -> 353.0			581.66	27.0								
ADONA	5.995	104057	8116.31		13C3-HFPODA - ISTD	5.367	191638	0.7229	ng/ml			
377.0 -> 85.1			7100.69	39.1								
HFPO-DA	5.368	13519	2486.79		13C3-HFPODA - ISTD	5.367	191638	0.8263	ng/ml			

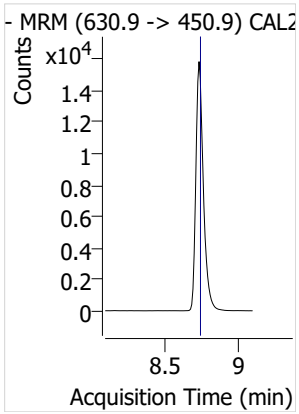
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
285.0 -> 184.9			470.10	42.3								
NEtFOSA	10.364	2298	2101.09		D5-NEtFOSA - ISTD	10.362	22694	0.1913	ng/ml			
526.0 -> 219.0			1605.80	95.3								
NEtFOSAA	7.461	3441	603.18		D5-NEtFOSAA - ISTD	7.453	78257	0.2079	ng/ml	✔	3	AMS 05/29/24
584.0 -> 526.0			197.10	61.2								
NEtFOSE	10.253	19410	6842.09		D9-NEtFOSE - ISTD	10.227	213398	1.9806	ng/ml			
NFDHA	5.023	1684	641.58		13C5-PFHxA - ISTD	5.109	159773	0.3763	ng/ml			
295.0 -> 85.0			475.56	37.0								
NMeFOSA	10.053	1977	2096.06		D3-NMeFOSA - ISTD	10.043	21224	0.1985	ng/ml			
512.0 -> 219.0			1118.46	92.6								
NMeFOSAA	7.258	2251	875.66		D3-NMeFOSAA - ISTD	7.258	165734	0.1862	ng/ml	✔	3	AMS 05/29/24
570.0 -> 418.9			3674.95	68.9								
NMeFOSE	9.907	18050	5330.26		D7-NMeFOSE - ISTD	9.890	207109	1.9455	ng/ml			
PFBA	2.637	18398	675.52		13C4-PFBA - ISTD	2.631	265221	0.7660	ng/ml	✔	3	AMS 05/29/24
PFBS	5.121	5947	829.22		13C3-PFBS - ISTD	5.120	68901	0.1827	ng/ml			
298.9 -> 98.8			393.99	40.7								
PFDA	7.254	11906	269.09		13C6-PFDA - ISTD	7.253	80576	0.1886	ng/ml			
513.0 -> 219.0			691.18	21.7								
PFDoA	8.137	11455	465.25		13C2-PFDoA - ISTD	8.136	72570	0.1966	ng/ml			
613.0 -> 319.0			518.71	16.6								
PFDoS	9.189	1859	1155.98		13C8-PFOS - ISTD	7.492	39767	0.1916	ng/ml			
698.9 -> 99.0			711.24	66.5								
PFDS	8.403	2799	1212.16		13C8-PFOS - ISTD	7.492	39767	0.2012	ng/ml			
599.0 -> 98.8			1099.12	58.9								
PFEESA	5.511	33036	2207.71		13C5-PFHxA - ISTD	5.109	159773	0.3526	ng/ml			
315.0 -> 83.0			302.37	7.4								
PFHpA	5.781	16649	417.57		13C4-PFHpA - ISTD	5.781	201579	0.1995	ng/ml			
362.9 -> 169.0			555.00	15.0								
PFHpS	7.011	3425	559.73		13C8-PFOS - ISTD	7.492	39767	0.1792	ng/ml			
449.0 -> 98.8			775.73	64.5								
PFHxA	5.111	11582	326.59		13C5-PFHxA - ISTD	5.109	159773	0.1850	ng/ml			
313.0 -> 118.9			37.51	2.9								
PFHxS	6.497	4172	546.82		13C3-PFHxS - ISTD	6.496	45454	0.1924	ng/ml	✔	3	AMS 05/29/24
398.9 -> 99.0			313.98	42.8								
PFMBA	4.530	11903	4613.94		13C5-PFPeA - ISTD	4.212	238296	0.3794	ng/ml			
PFMPA	3.391	1372	935.96		13C5-PFPeA - ISTD	4.212	238296	0.4131	ng/ml	✔	3	AMS 05/29/24
PFNA	6.796	12693	319.73		13C9-PFNA - ISTD	6.795	85704	0.1880	ng/ml			

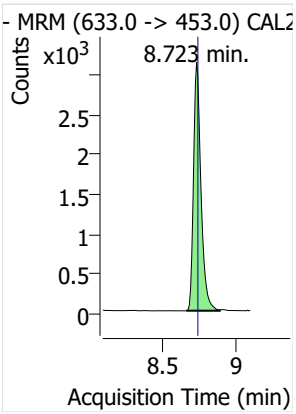
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
463.0 -> 219.0			7933.90	27.0								
PFNS	7.951	3355	1083.46		13C8-PFOS - ISTD	7.492	39767	0.1959	ng/ml			
549.0 -> 98.8			508.07	52.3								
PFOA	6.321	17463	79.78		13C8-PFOA - ISTD	6.320	181136	0.2100	ng/ml	✔	3	AMS 05/29/24
413.0 -> 169.0			621.74	21.6								
PFOS	7.493	3782	430.72		13C8-PFOS - ISTD	7.492	39767	0.1961	ng/ml	✔	3	AMS 05/29/24
499.0 -> 99.0			432.25	51.7								
PFOSA	8.702	6256	72808.02		13C8-PFOSA - ISTD	8.701	72197	0.2012	ng/ml			
497.9 -> 478.0			3304.84	2.5								
PFPeA	4.214	18109	1409.22		13C5-PFPeA - ISTD	4.212	238296	0.3857	ng/ml			
263.0 -> 69.0			41.05	***0.4**								
PFPeS	5.898	4893	573.70		13C3-PFHxS - ISTD	6.496	45454	0.1987	ng/ml			
349.0 -> 98.9			713.46	44.7								
PFTeDA	8.951	14873	712.25		13C2-PFTeDA - ISTD	8.950	101377	0.1895	ng/ml			
713.0 -> 168.9			9878.88	8.5								
PFTrDA	8.565	11648	447.19		13C2-PFDoA - ISTD	8.136	72570	0.1931	ng/ml			
663.0 -> 168.9			1134.73	16.2								
PFUnA	7.702	11248	607.17		13C7-PFUnA - ISTD	7.701	73369	0.1977	ng/ml			
563.0 -> 269.1			971.50	24.7								
TDCA	5.564	3	2.10					-	ng/ml			
499.0 -> 99.0			11.87	***1064.4**								
13C2-8:2FTS	7.030	58931	216599.61		18O2-PFHxS	6.495	45227	4.7712	ng/ml			
529.0 -> 81.0			5994.89	48.6								
13C2-4:2FTS	4.870	112473	25646.17		18O2-PFHxS	6.495	45227	4.8848	ng/ml			
329.0 -> 81.0			9115.59	35.6								
13C2-6:2FTS	6.105	97576	24760.65		18O2-PFHxS	6.495	45227	4.7679	ng/ml			
429.0 -> 81.0			3723.31	30.4								
13C5-PFHxA	5.109	159773	19596.28		13C2-PFHxA	5.110	151638	2.4868	ng/ml			
318.0 -> 120.0			254.85	1.6								
13C6-PFDA	7.253	80576	3867.26		13C2-PFDA	7.253	79216	1.2774	ng/ml			
13C7-PFUnA	7.701	73369	6413.80		13C2-PFDA	7.253	79216	1.2441	ng/ml			
13C8-PFOA	6.320	181136	32800.39		13C4-PFOA	6.320	23759	2.3300	ng/ml			
13C8-PFOS	7.492	39767	12725.55		13C4-PFOS	7.484	43567	2.4609	ng/ml			
507.0 -> 99.0			5214.56	55.5								
13C8-PFOSA	8.701	72197	1141362.94		13C4-PFOS	7.484	43567	2.4725	ng/ml			

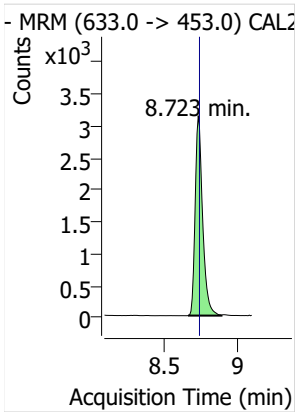
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
13C9-PFNA	6.795	85704	8351.65		13C5-PFNA	6.796	117640	1.1840	ng/ml			
13C5-PFPeA	4.212	238296	21235.40		13C2-PFHxA	5.110	151638	5.0018	ng/ml			
13C2-PFDoA	8.136	72570	14381.82		13C2-PFDA	7.253	79216	1.1923	ng/ml			
13C4-PFHpA	5.781	201579	23527.65		13C2-PFHxA	5.110	151638	2.4050	ng/ml			
13C4-PFBA	2.631	256688	73908.42		13C3-PFBA	2.634	122377	9.6016	ng/ml	✔	3	AMS 05/29/24
13C3-PFHxS	6.496	45454	13232.90		18O2-PFHxS	6.495	45227	2.4489	ng/ml			
402.0 -> 99.0			12128.56	51.9								
13C3-PFBS	5.120	68901	8568.62		18O2-PFHxS	6.495	45227	2.5653	ng/ml			
301.9 -> 98.9			8299.14	36.7								
13C3-HFPODA	5.367	191638	44992.42		13C2-PFHxA	5.110	151638	10.4003	ng/ml			
287.0 -> 185.0			6577.04	43.7								
13C2-PFTeDA	8.950	101377	34020.93		13C2-PFDA	7.253	79216	1.2351	ng/ml			
D9-NEtFOSE	10.227	213398	80356.87		13C4-PFOS	7.484	43567	22.5913	ng/ml			
D3-NMeFOSA	10.043	21224	16584.20		13C4-PFOS	7.484	43567	2.2250	ng/ml			
D3-NMeFOSAA	7.258	165734	26804.08		13C4-PFOS	7.484	43567	5.1187	ng/ml			
D5-NEtFOSA	10.362	22694	8810.47		13C4-PFOS	7.484	43567	2.3370	ng/ml			
D5-NEtFOSAA	7.453	78257	8310.12		13C4-PFOS	7.484	43567	4.8278	ng/ml			
D7-NMeFOSE	9.890	207109	91132.00		13C4-PFOS	7.484	43567	23.4619	ng/ml			

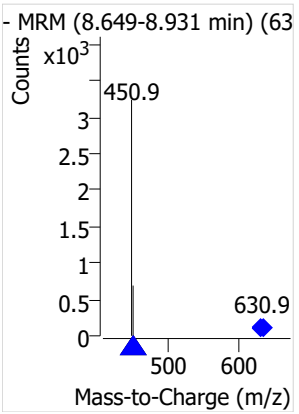
11Cl-PF3OUdS











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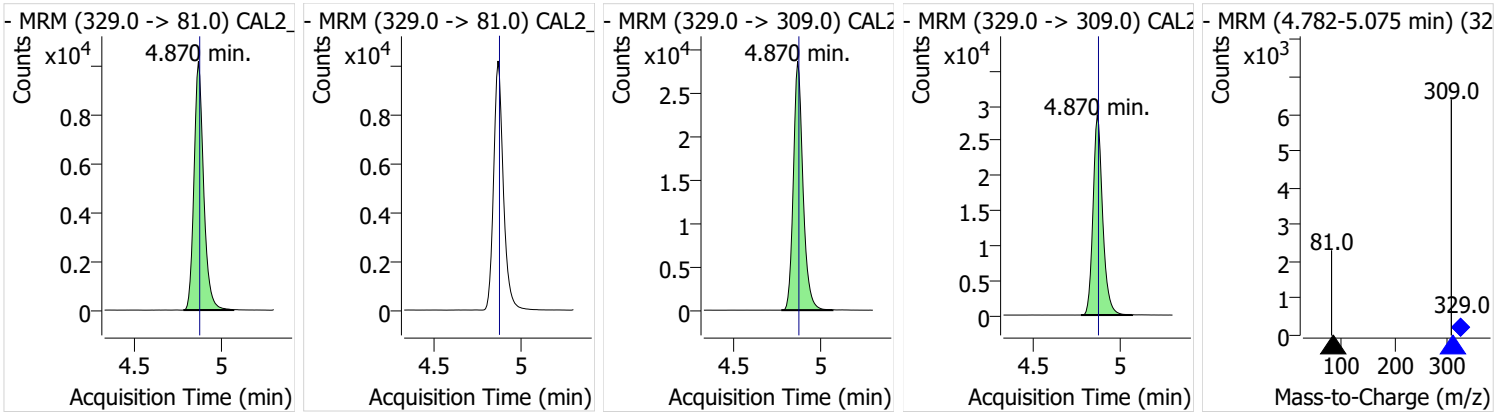
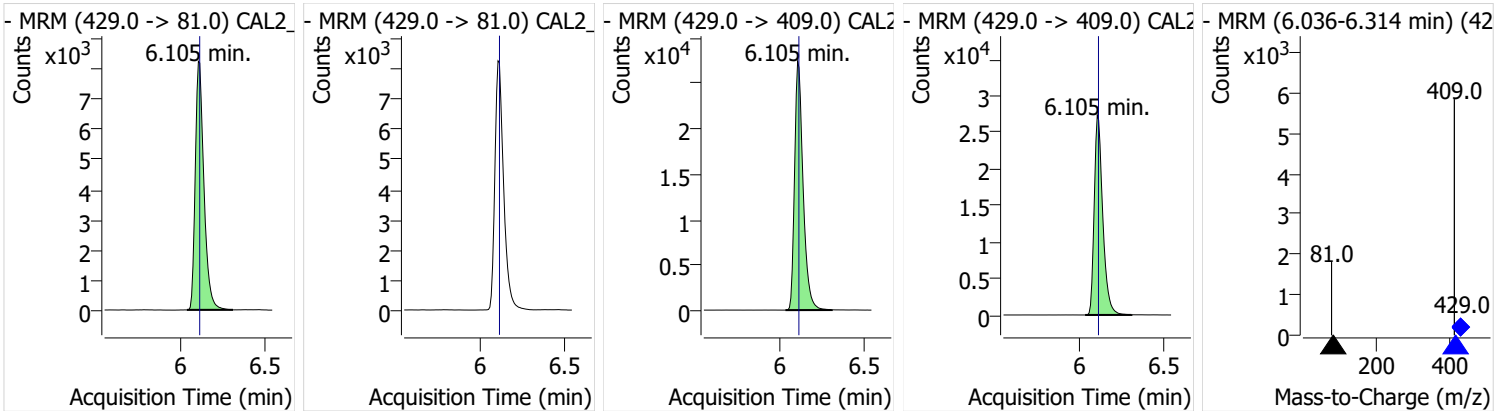
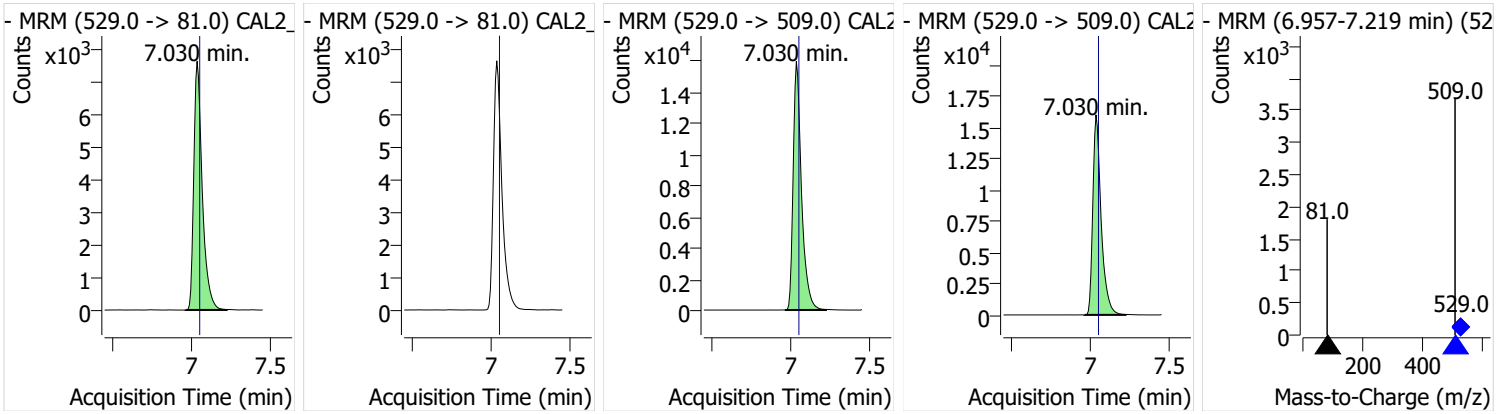


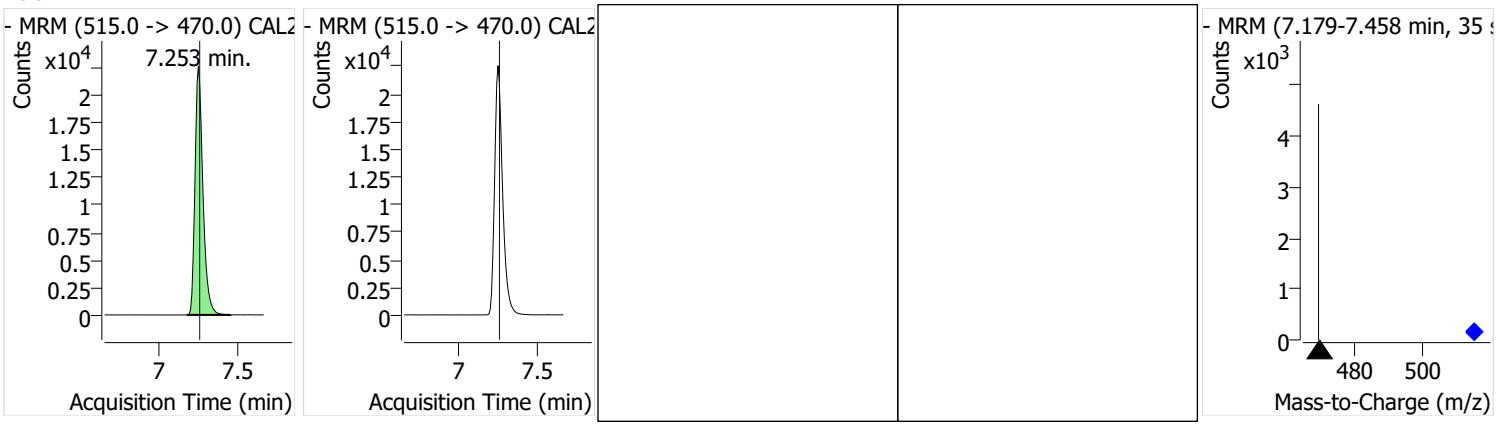
13C2-6:2FTS - ISTD



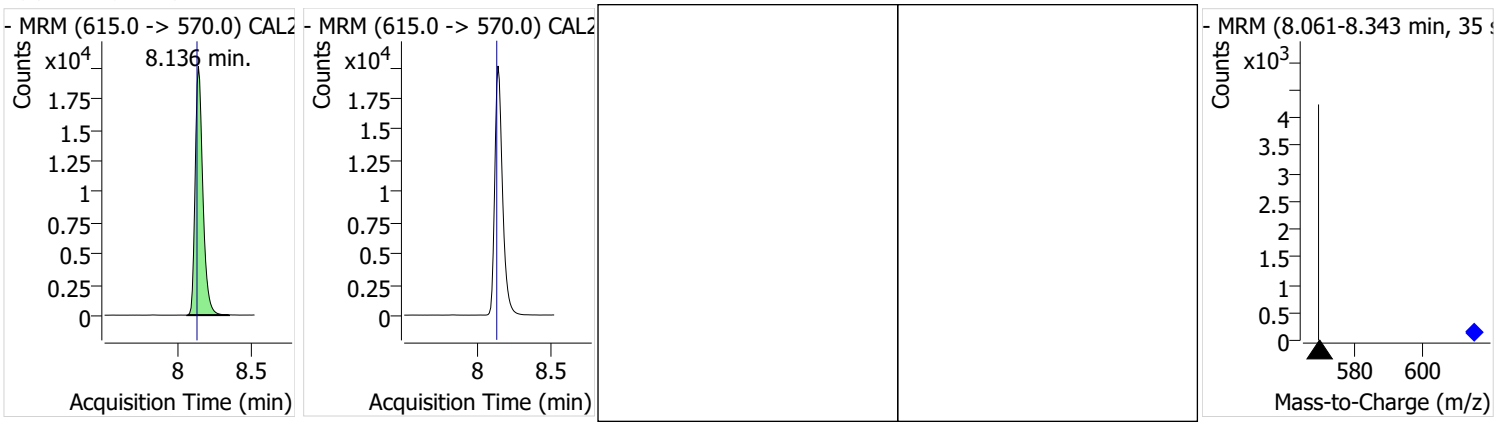
13C2-8:2FTS - ISTD



13C2-PFDA



13C2-PFDoA - ISTD



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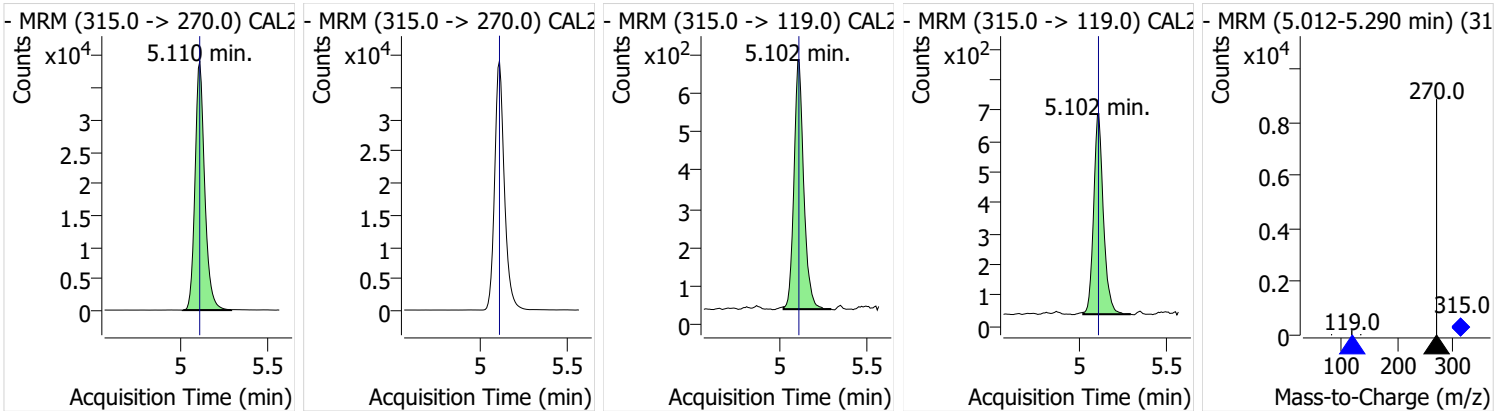
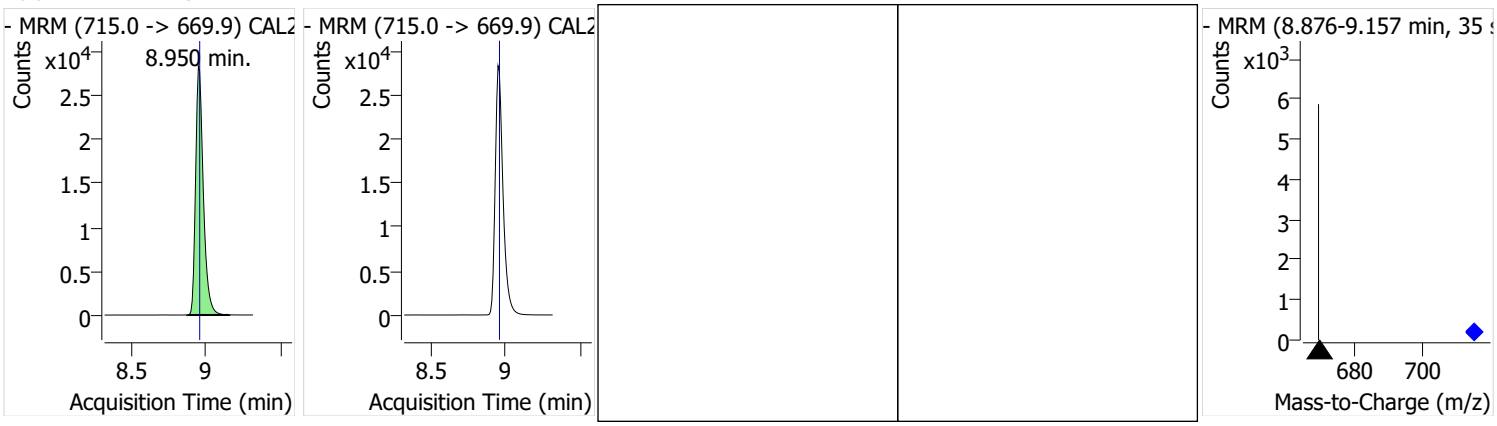
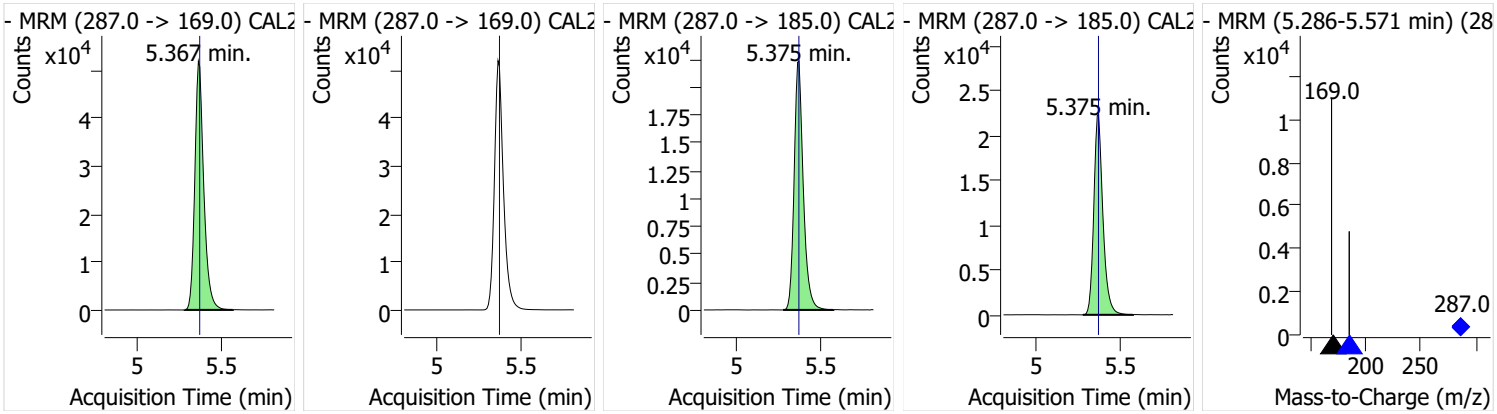


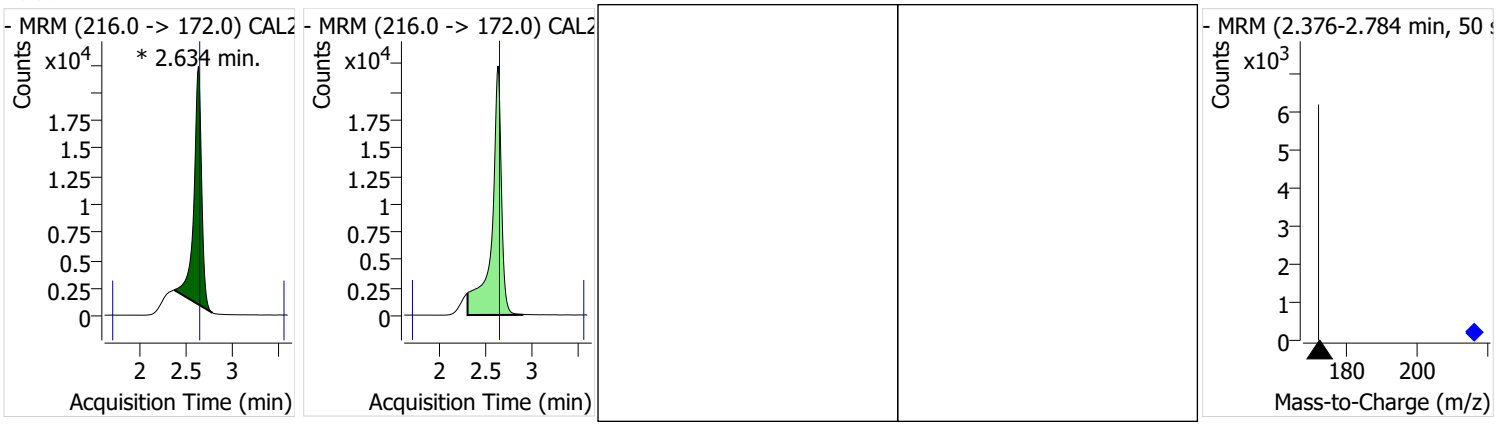
13C2-PFTeDA - ISTD



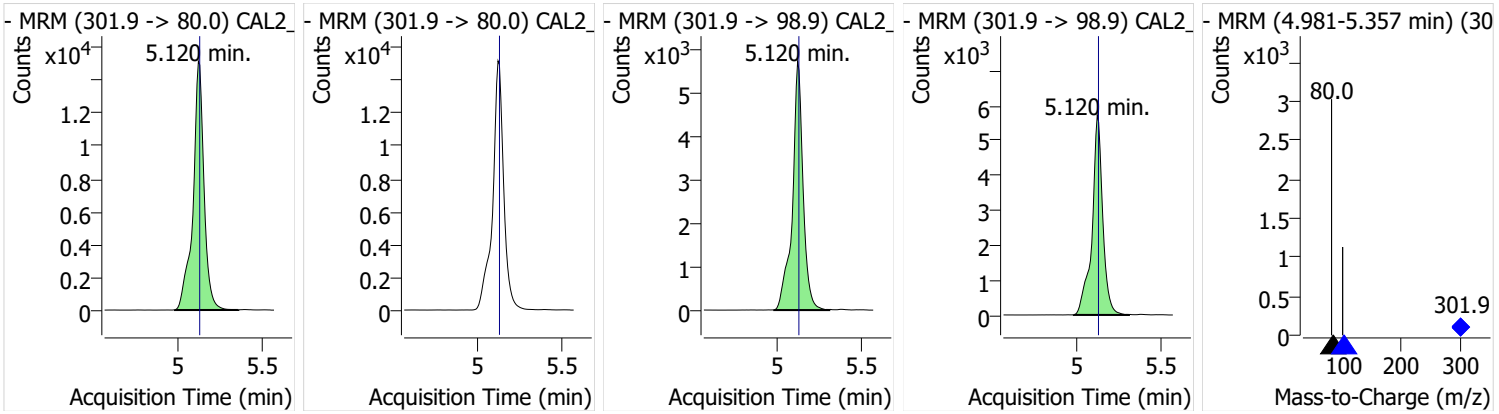
13C3-HFPODA - ISTD



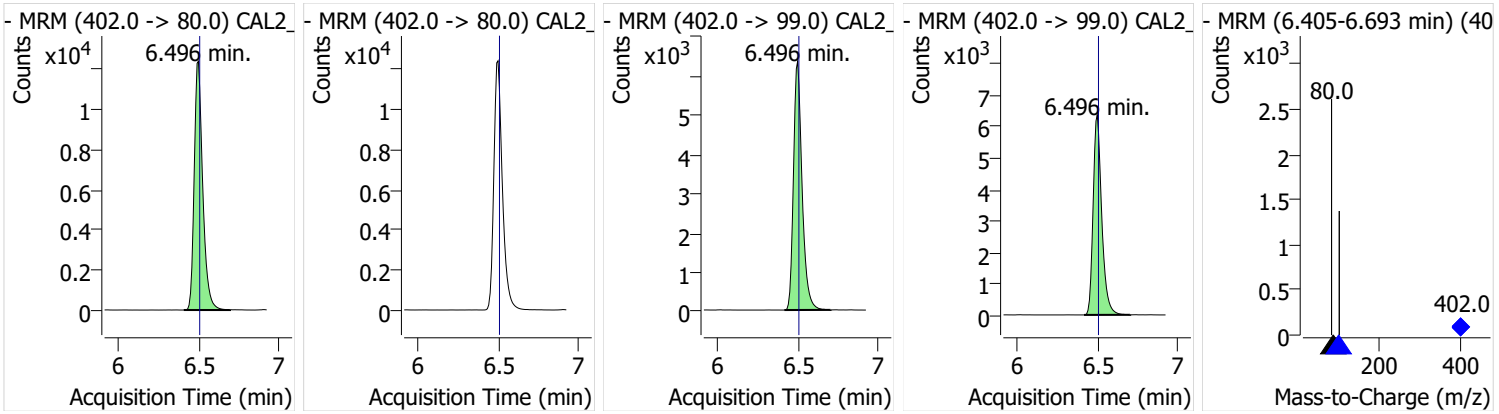
13C3-PFBA



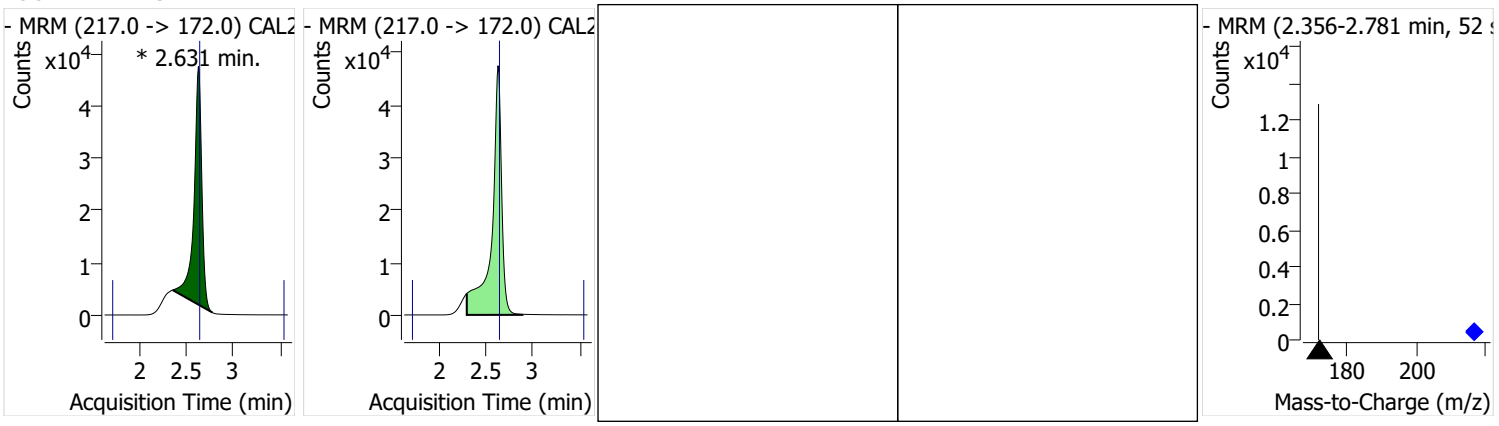
13C3-PFBS - ISTD



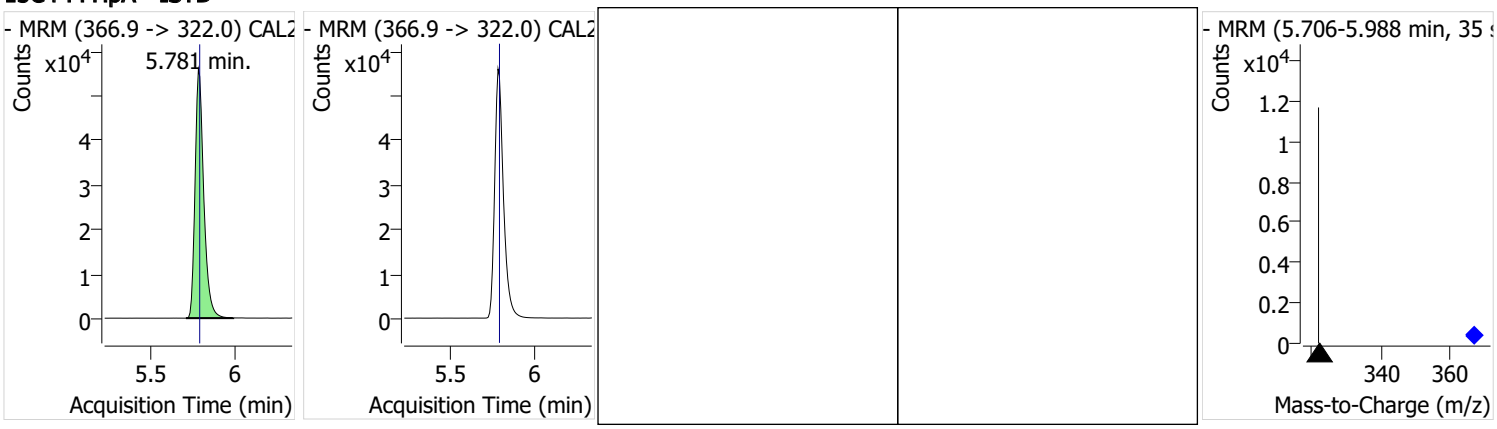
13C3-PFHxS - ISTD



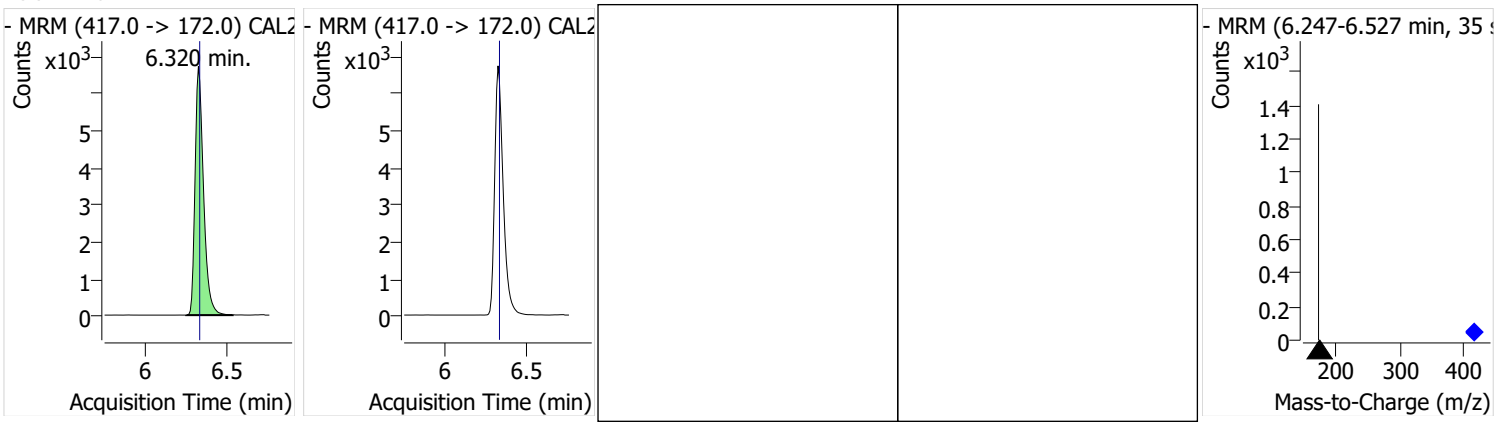
13C4-PFBA - ISTD



13C4-PFHpA - ISTD



13C4-PFOA



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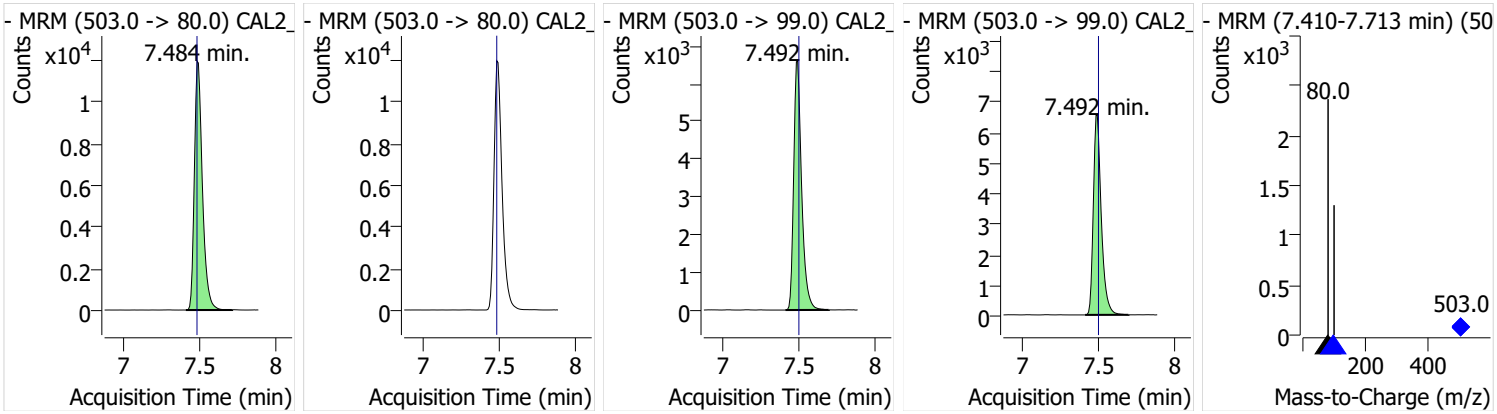
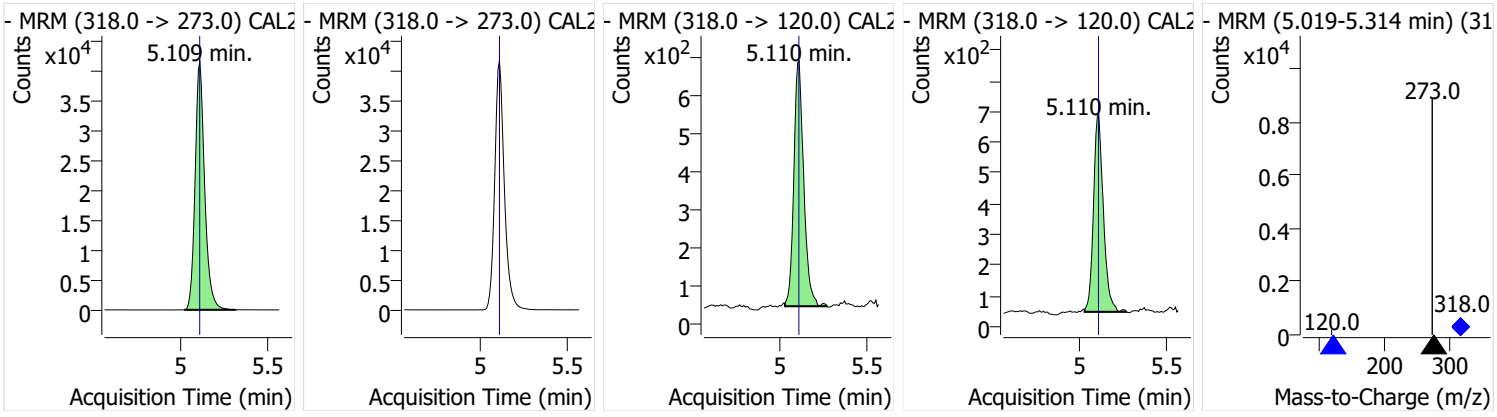
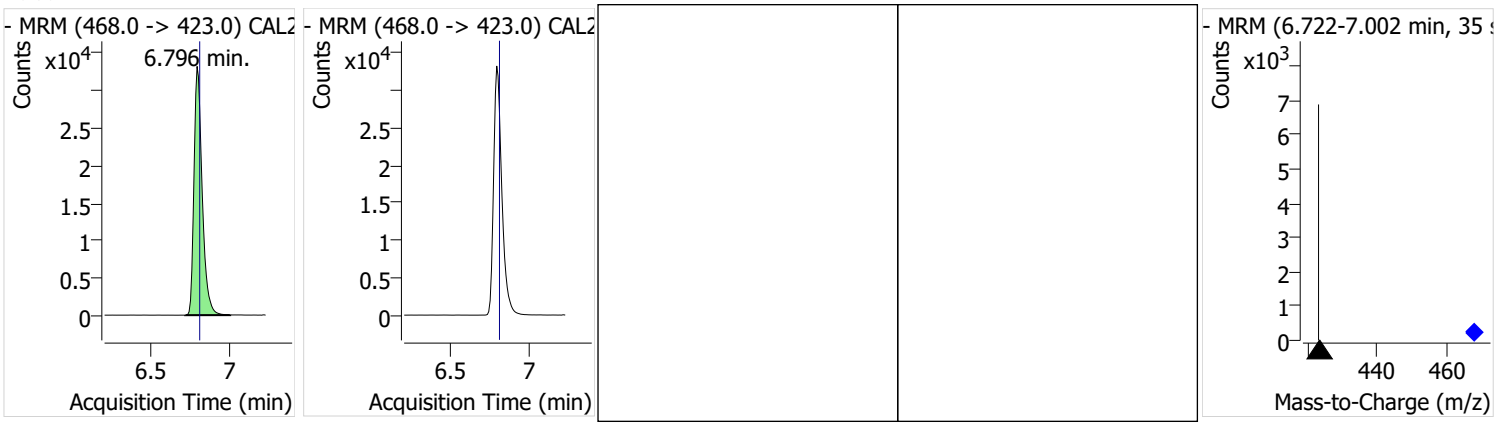


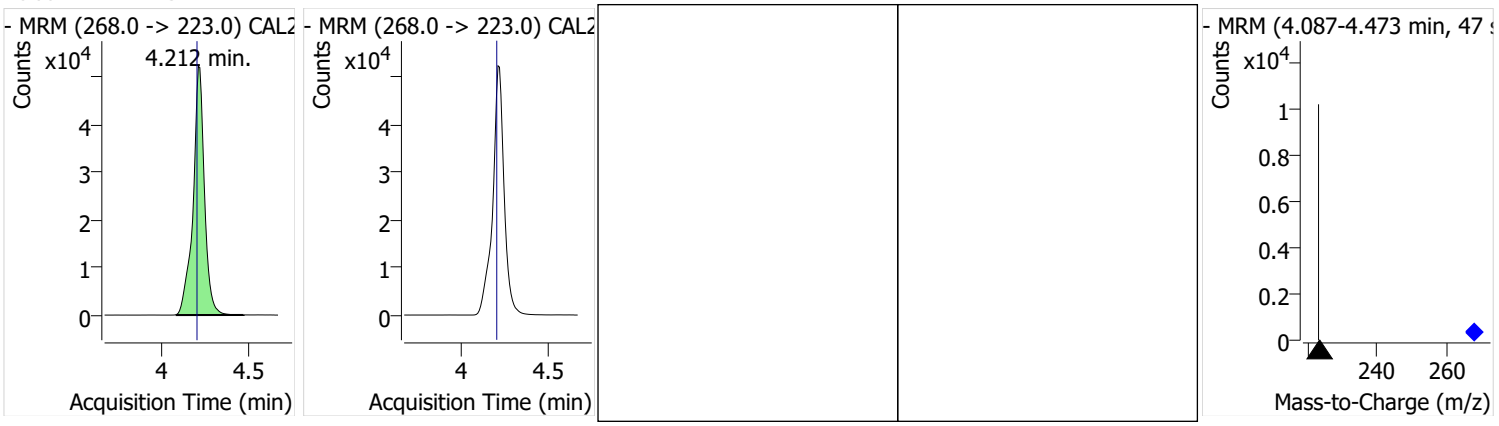
13C5-PFHxA - ISTD



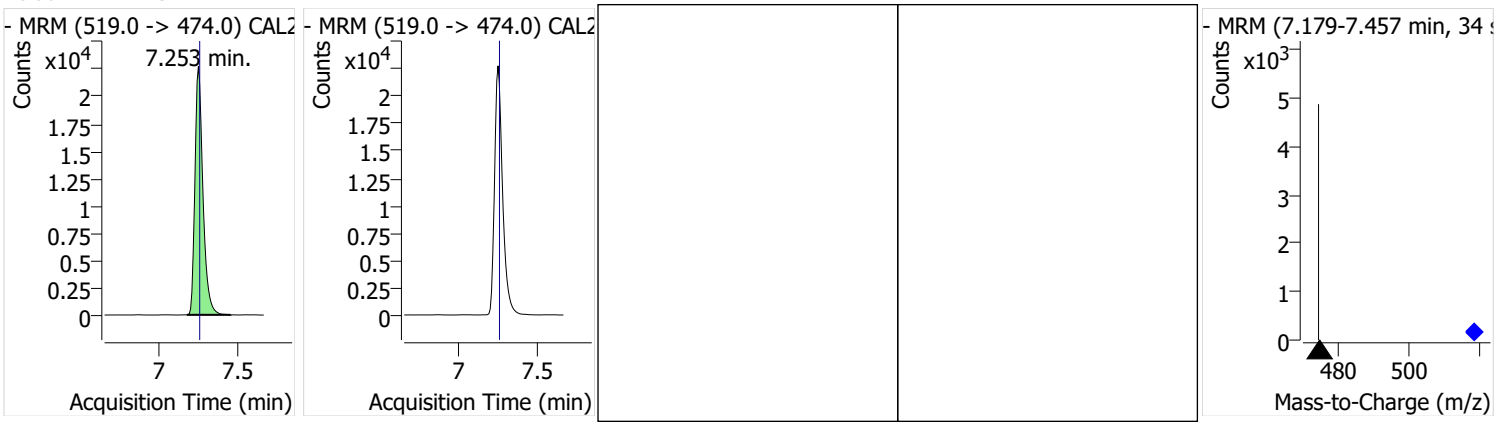
13C5-PFNA



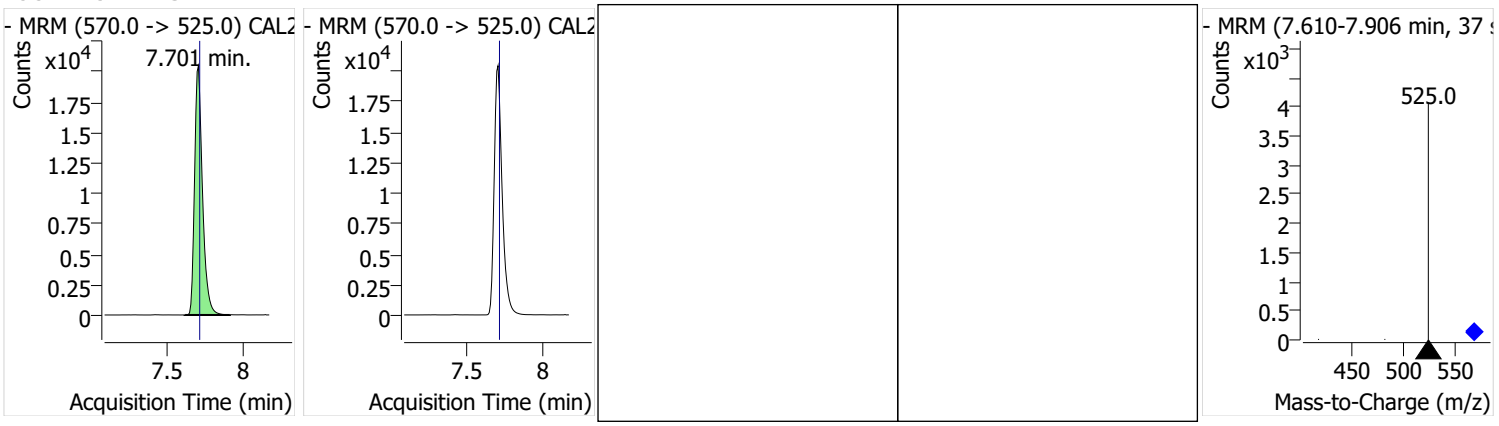
13C5-PFPeA - ISTD



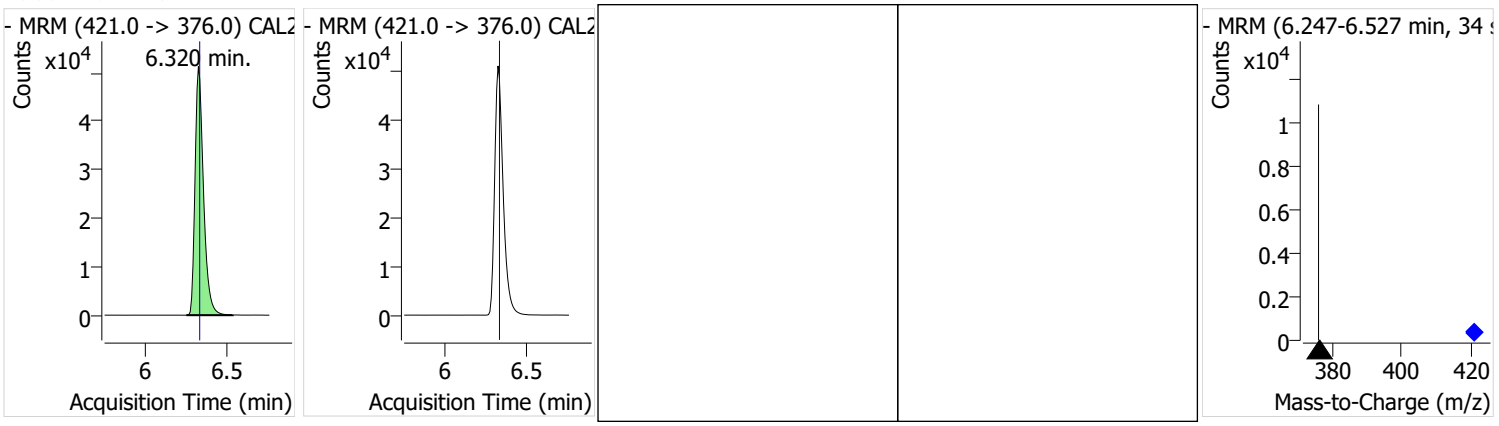
13C6-PFDA - ISTD



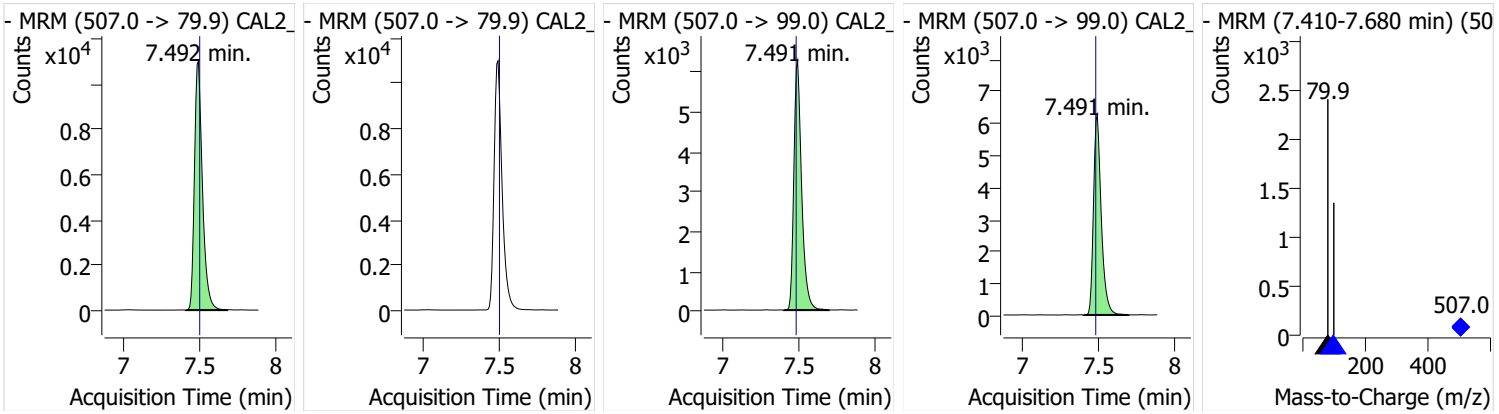
13C7-PFUnA - ISTD



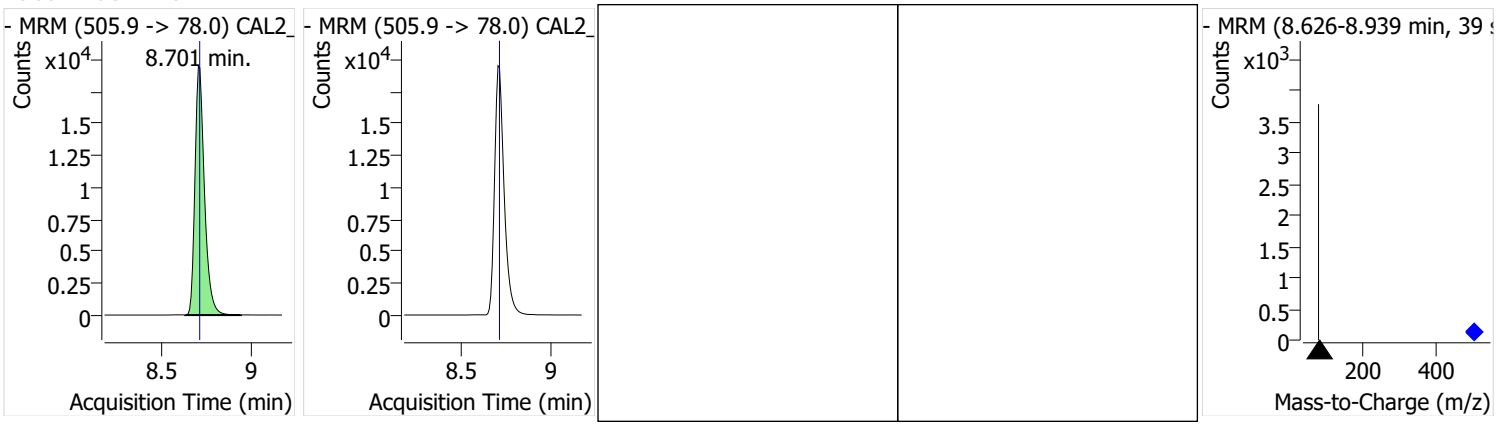
13C8-PFOA - ISTD



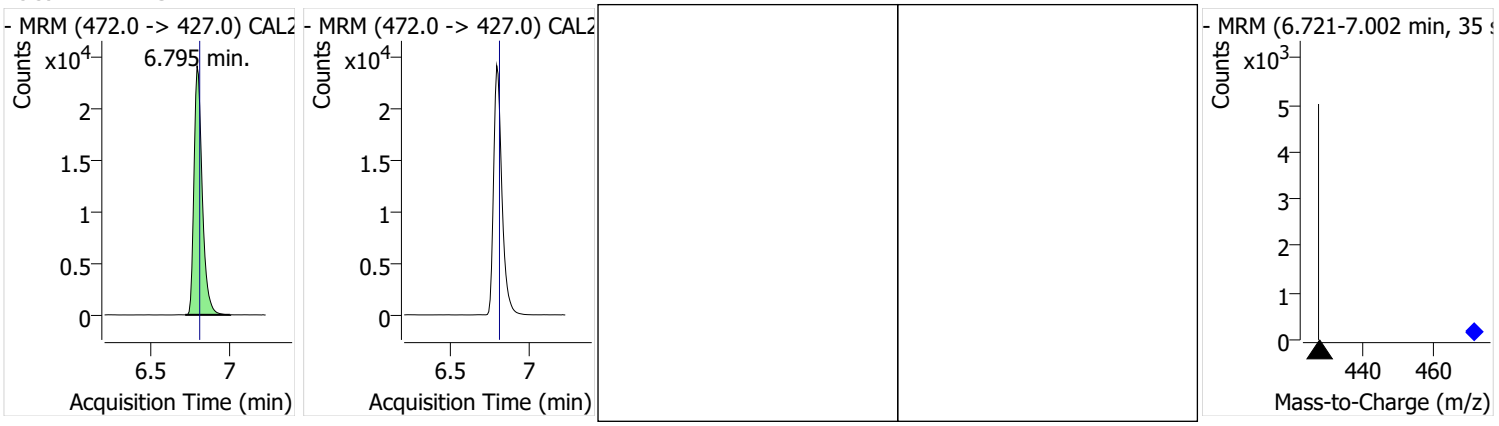
13C8-PFOS - ISTD



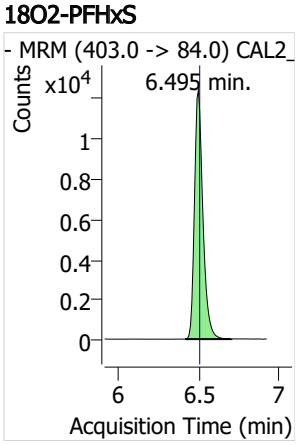
13C8-PFOSA - ISTD

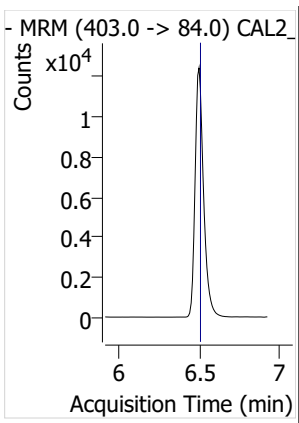


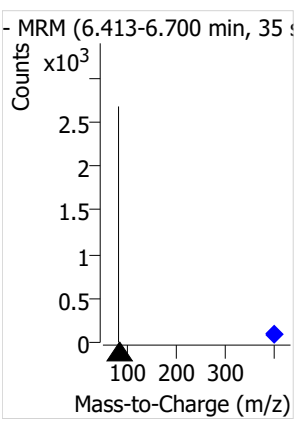
13C9-PFNA - ISTD



18O2-PFHxS







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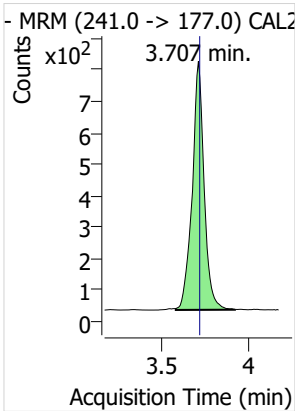

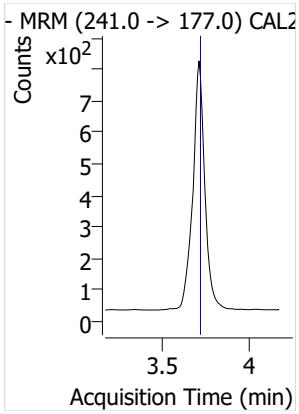

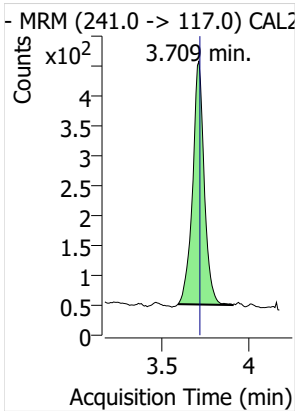

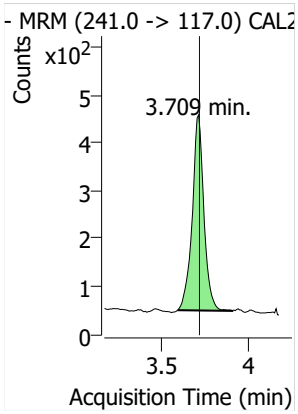

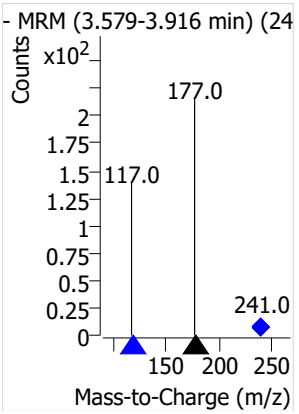

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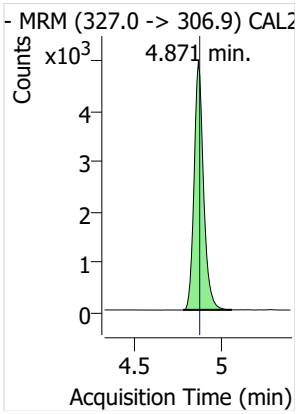

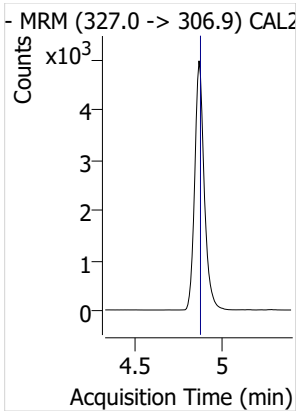

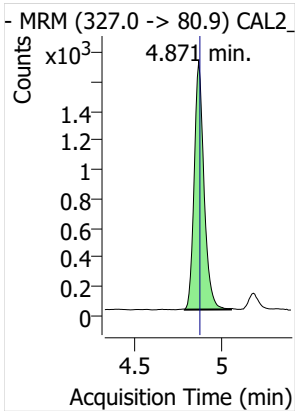

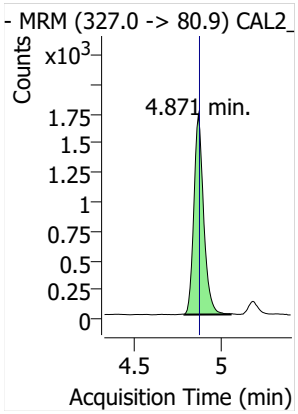

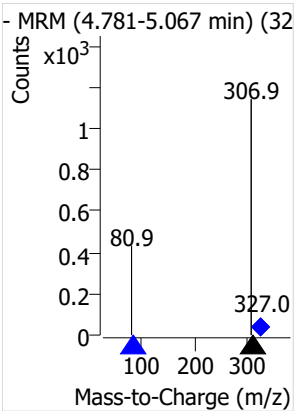

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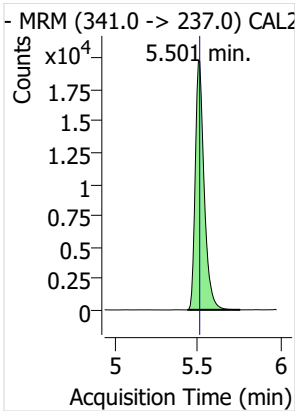

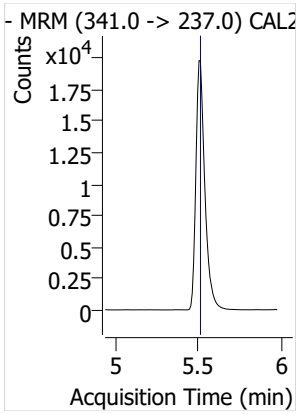

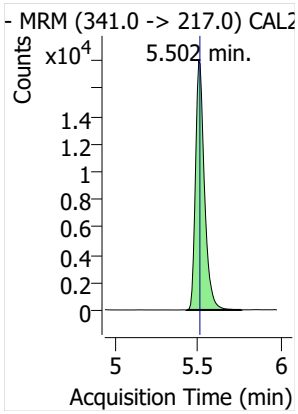

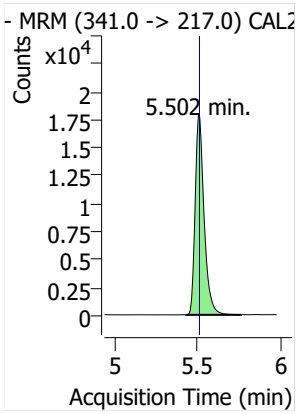

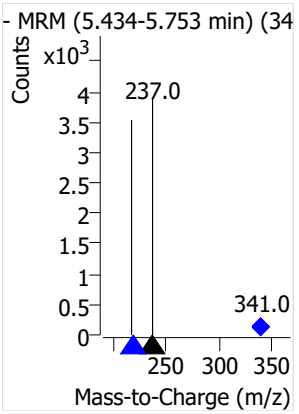

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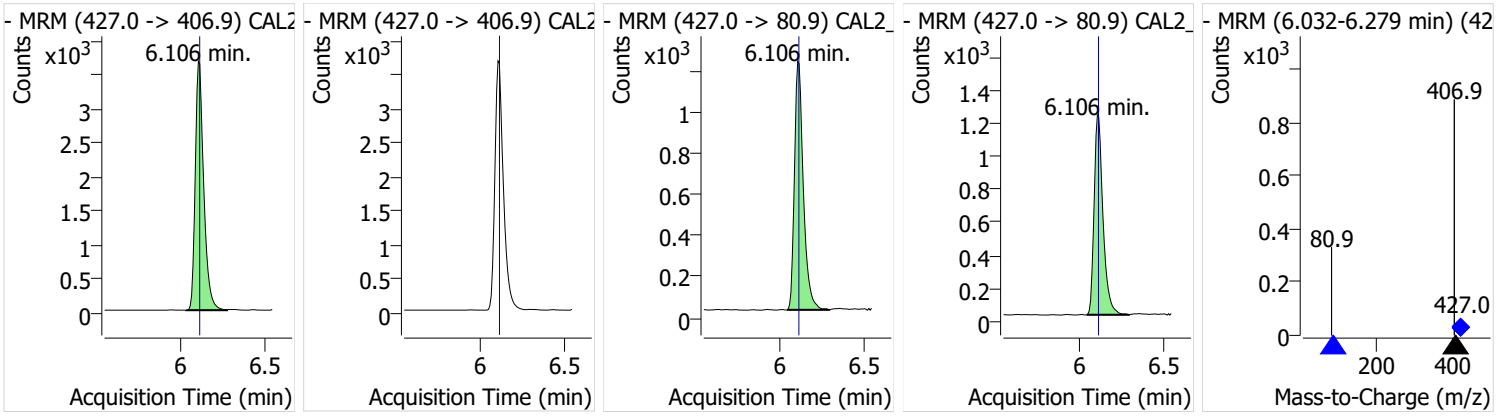

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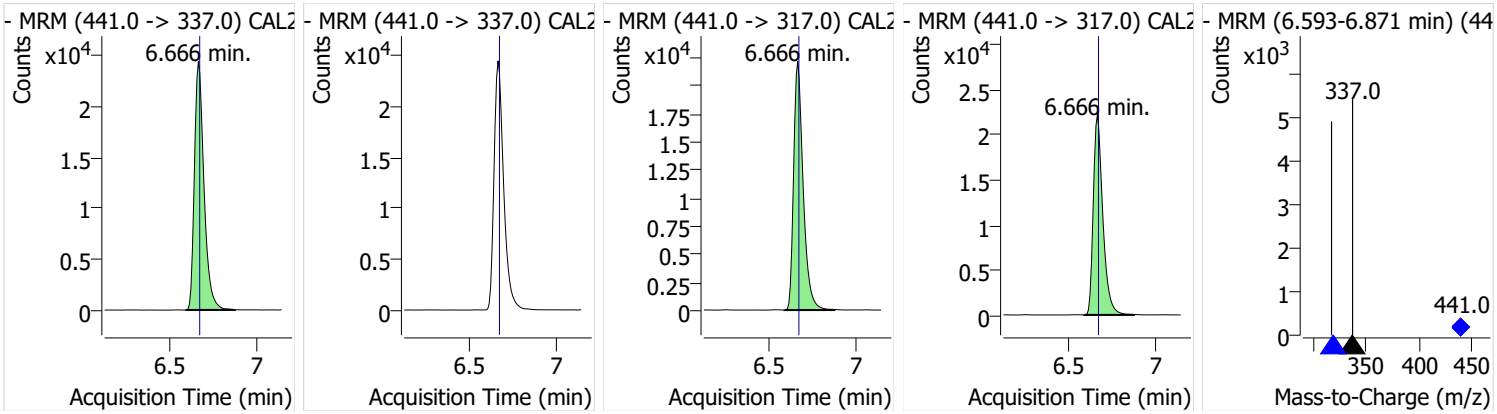

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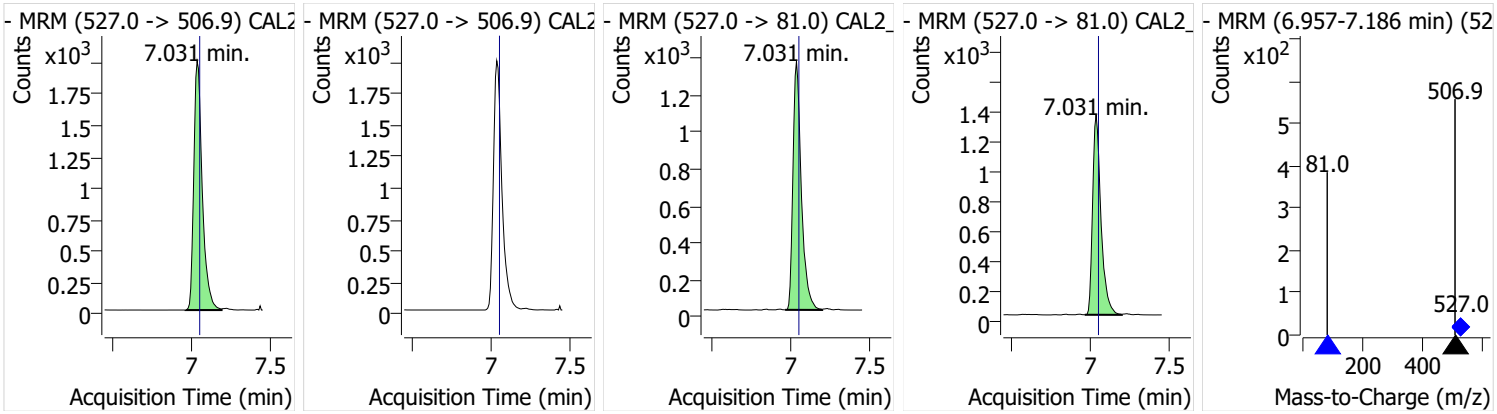

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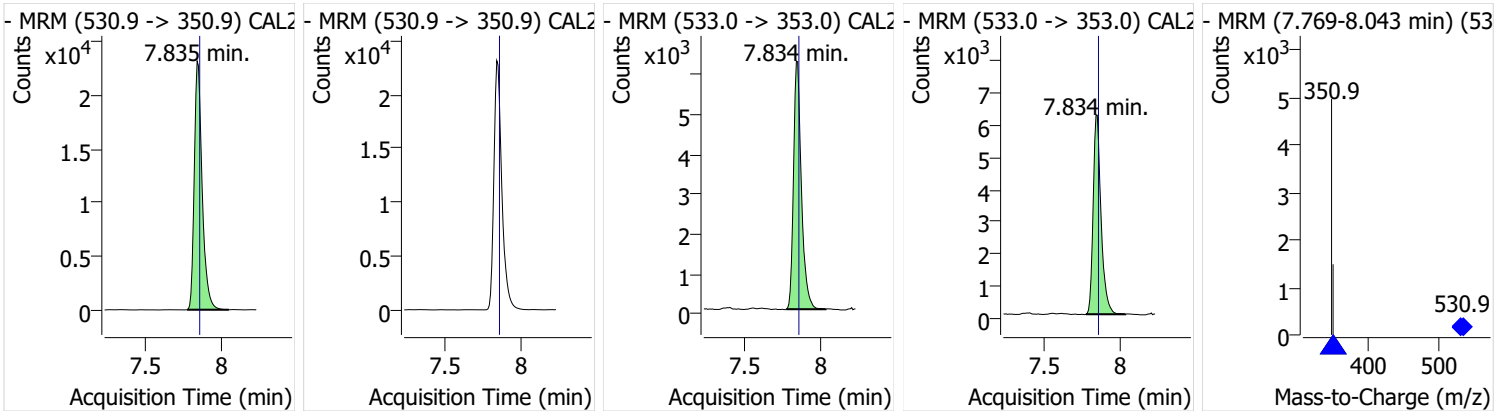

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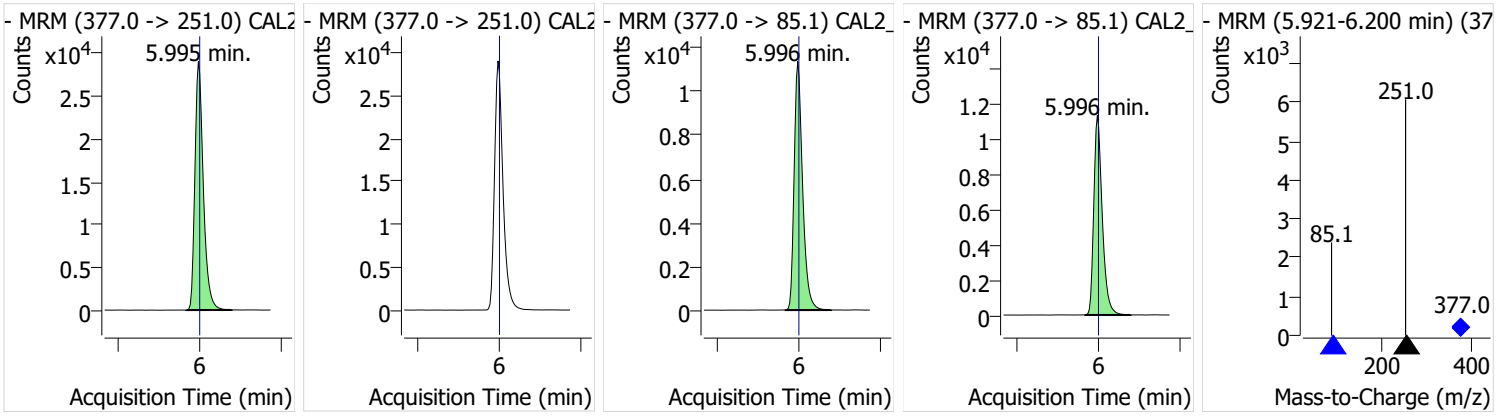

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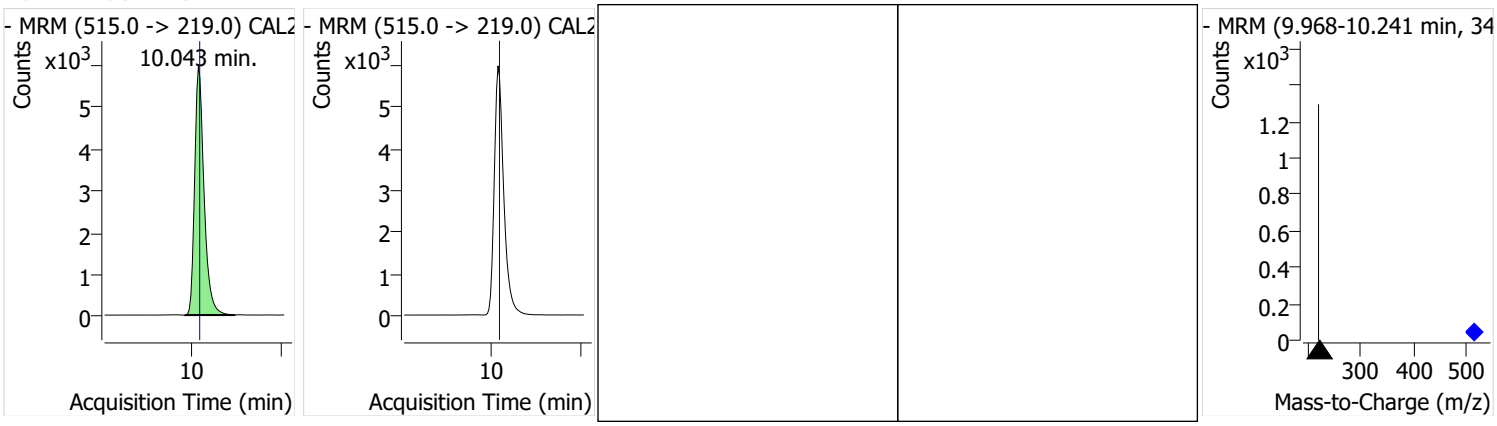

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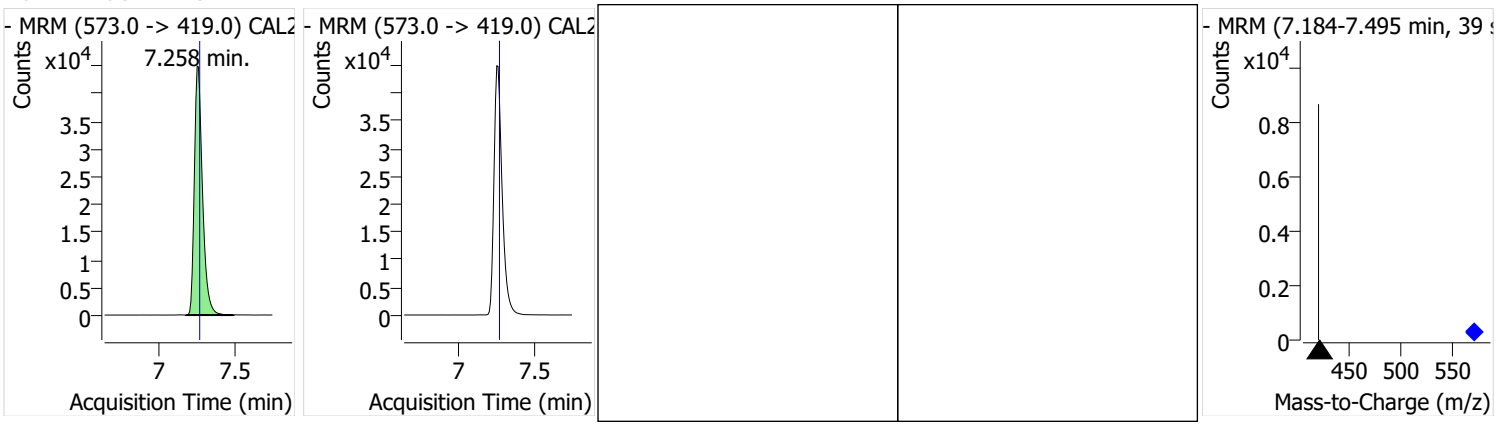

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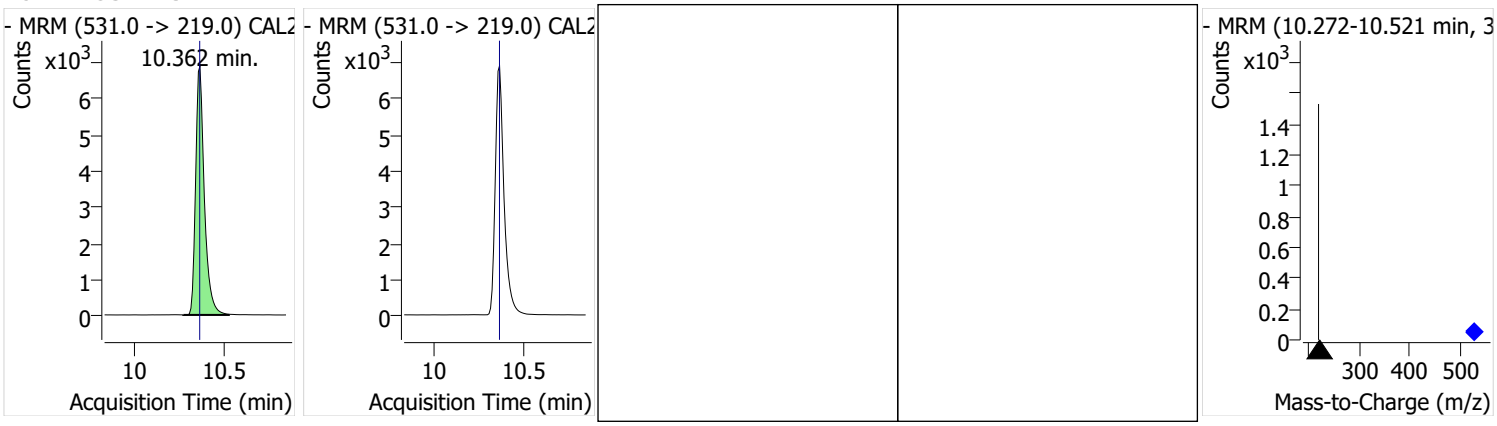

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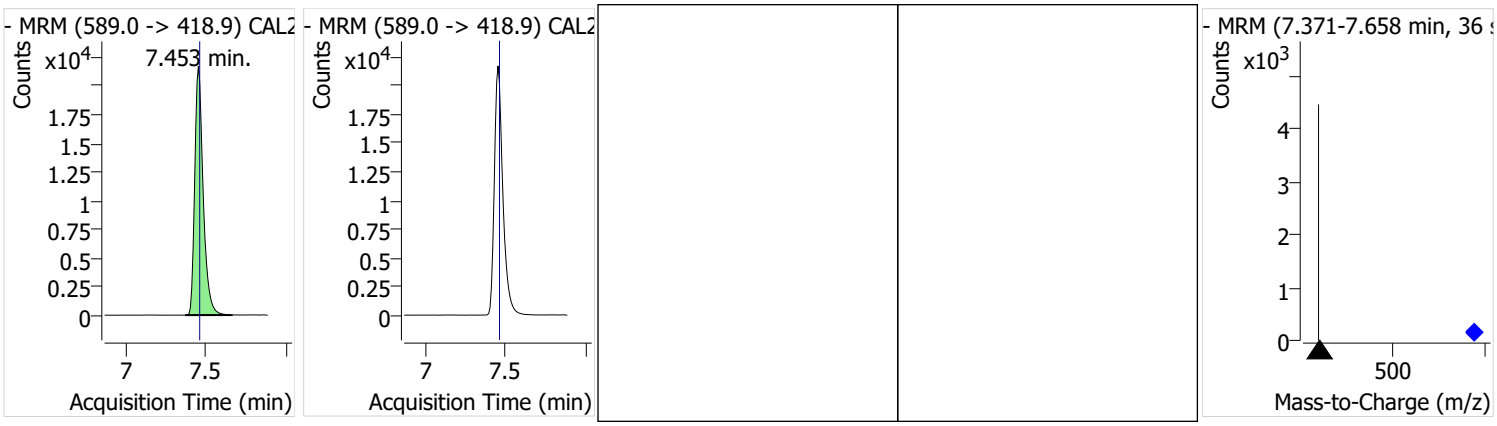

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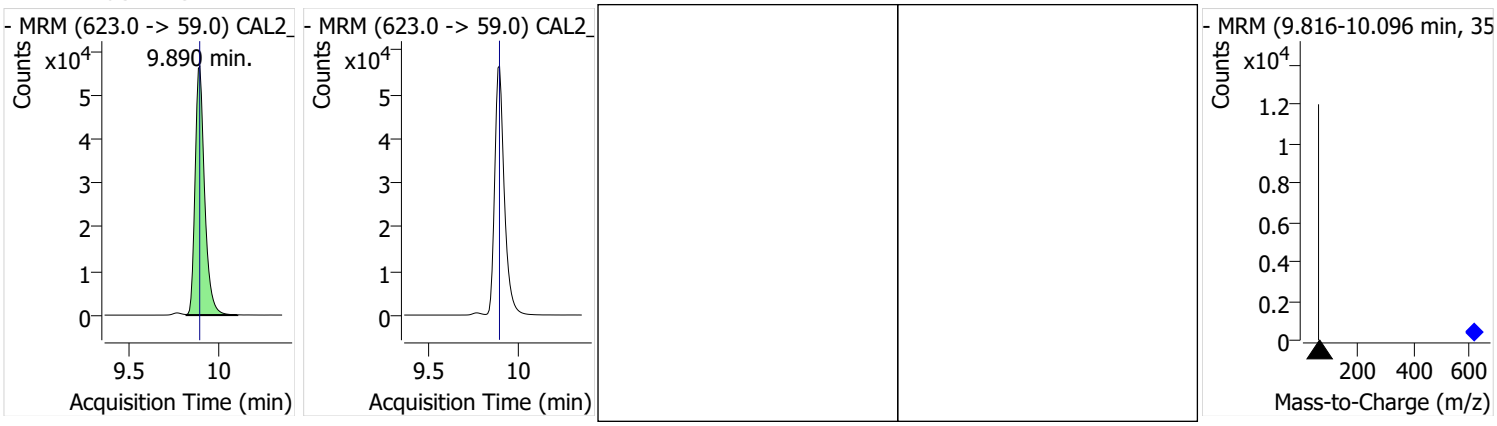

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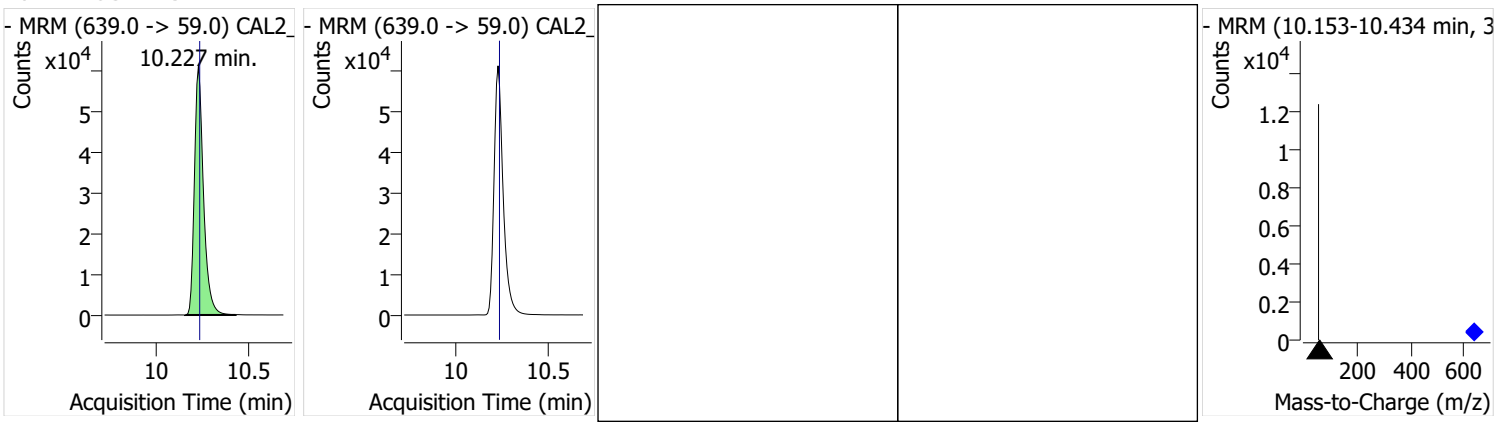

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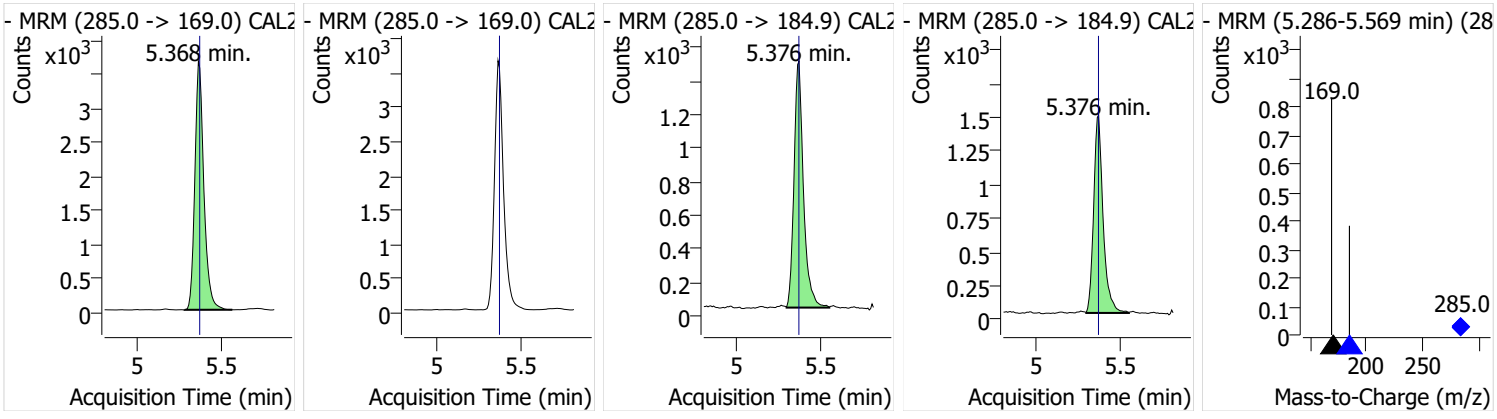

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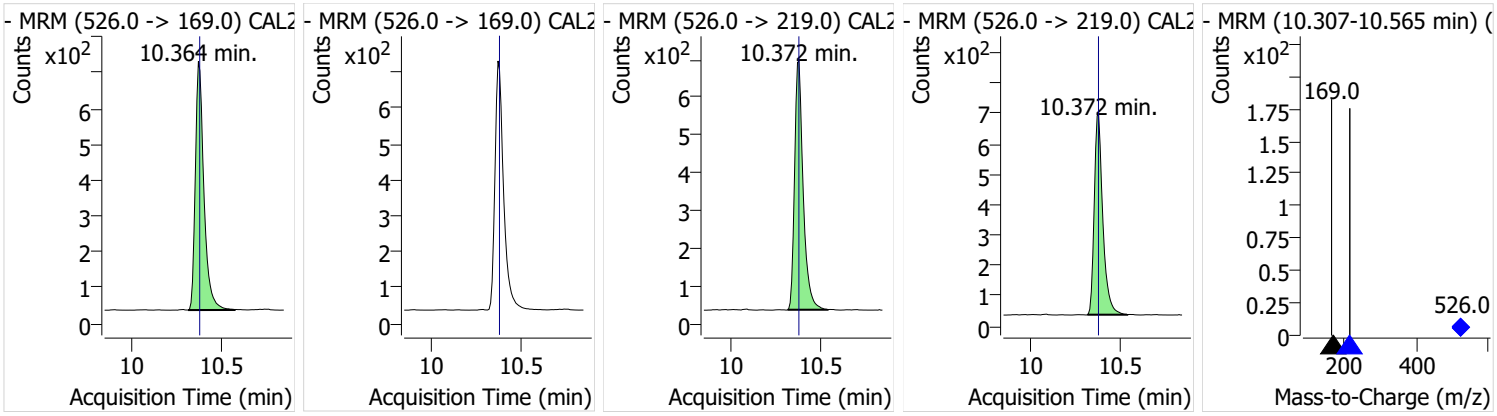

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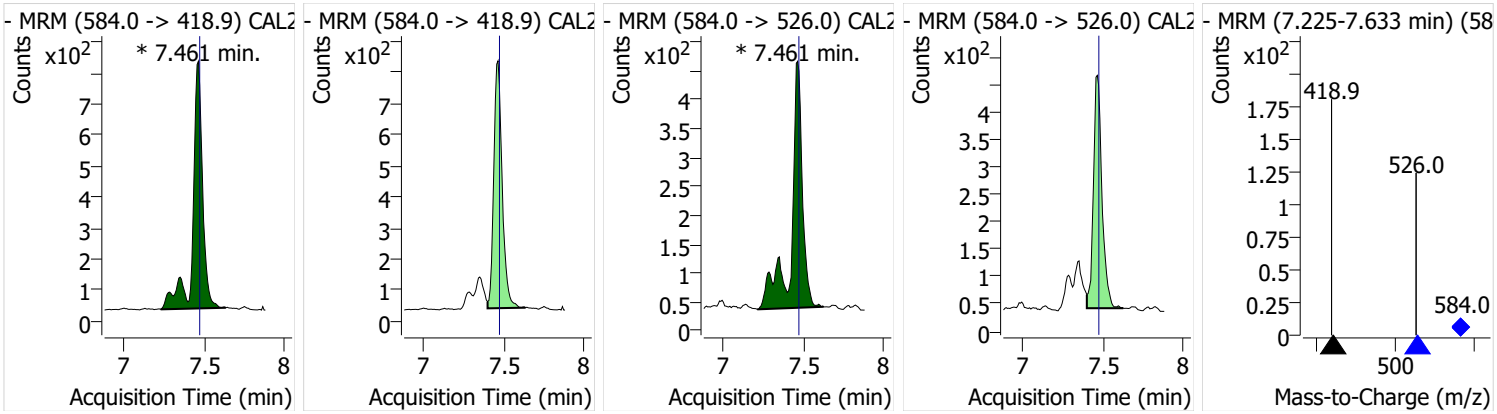

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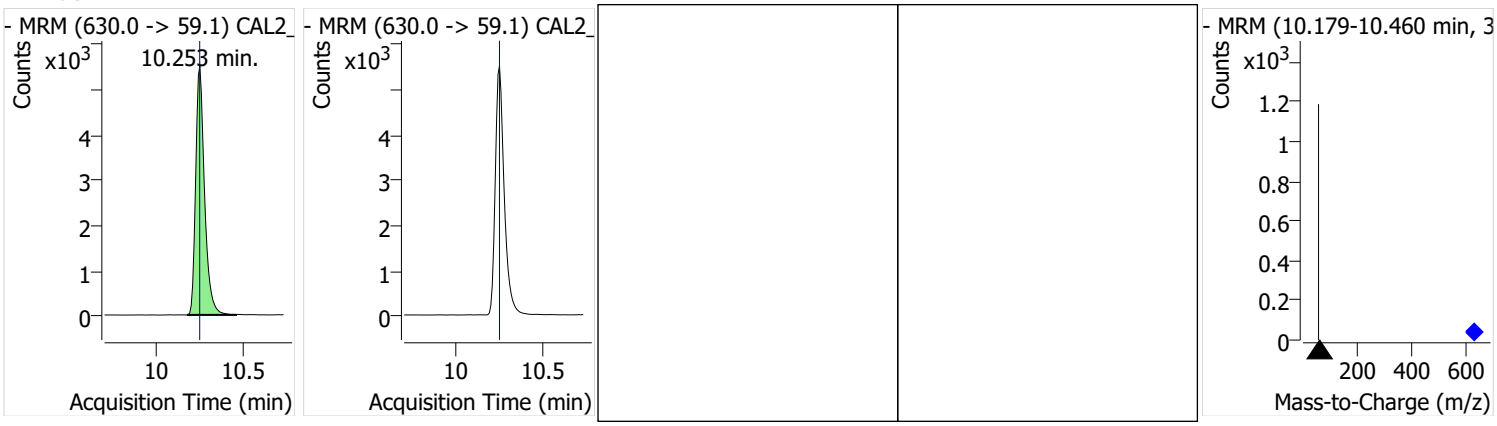

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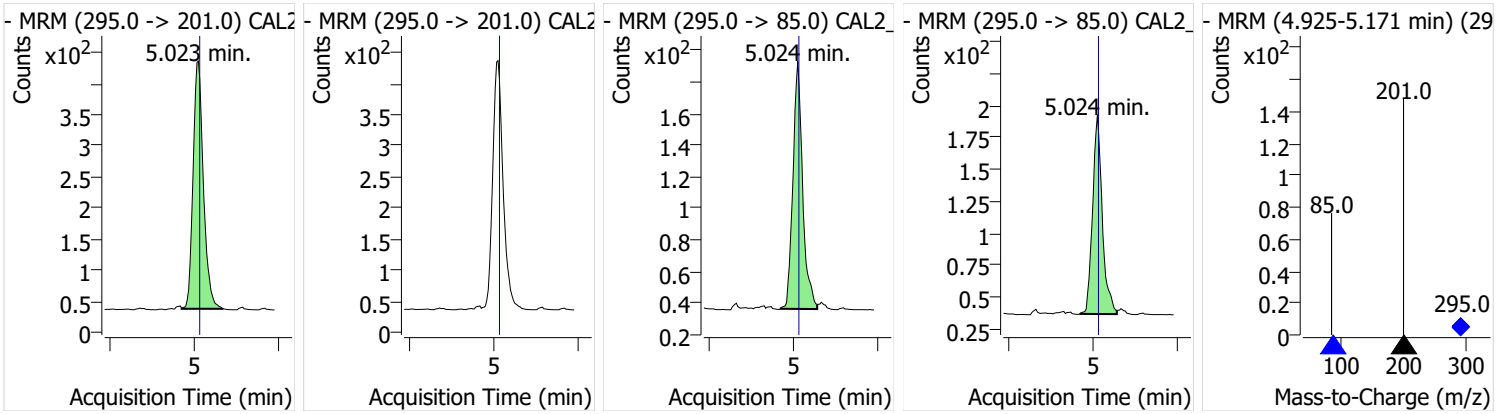

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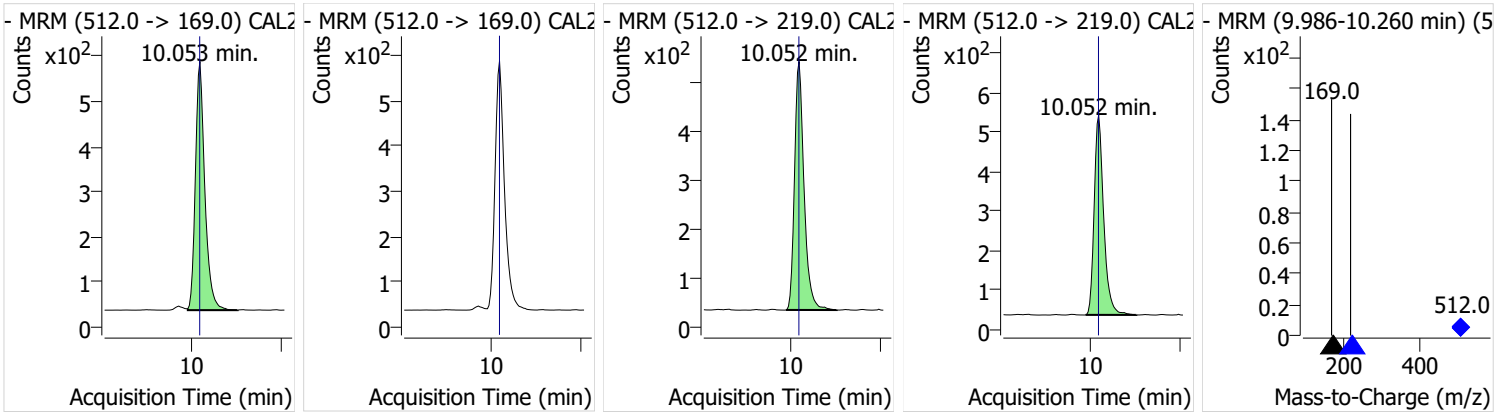

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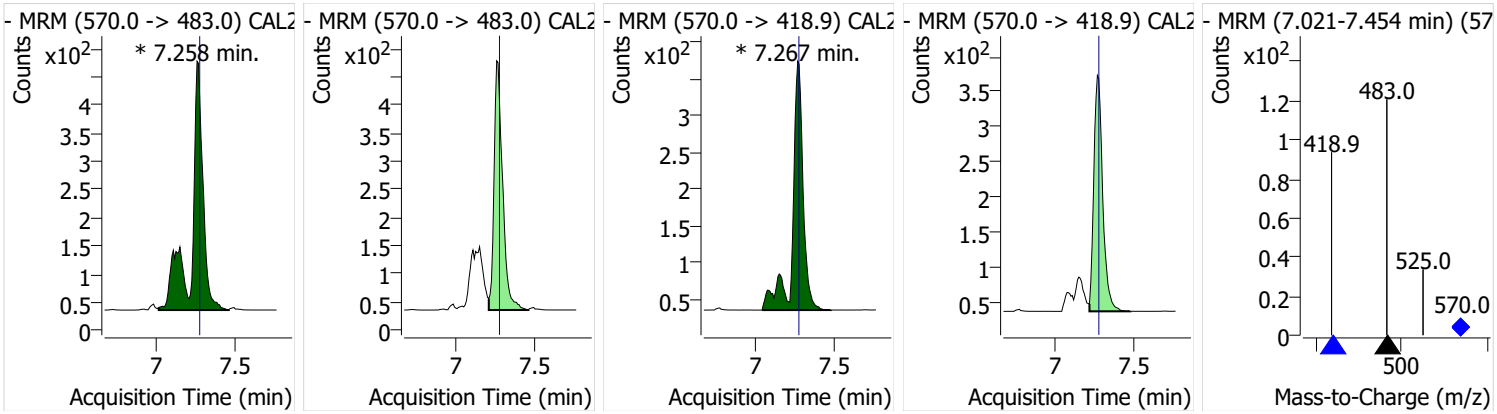

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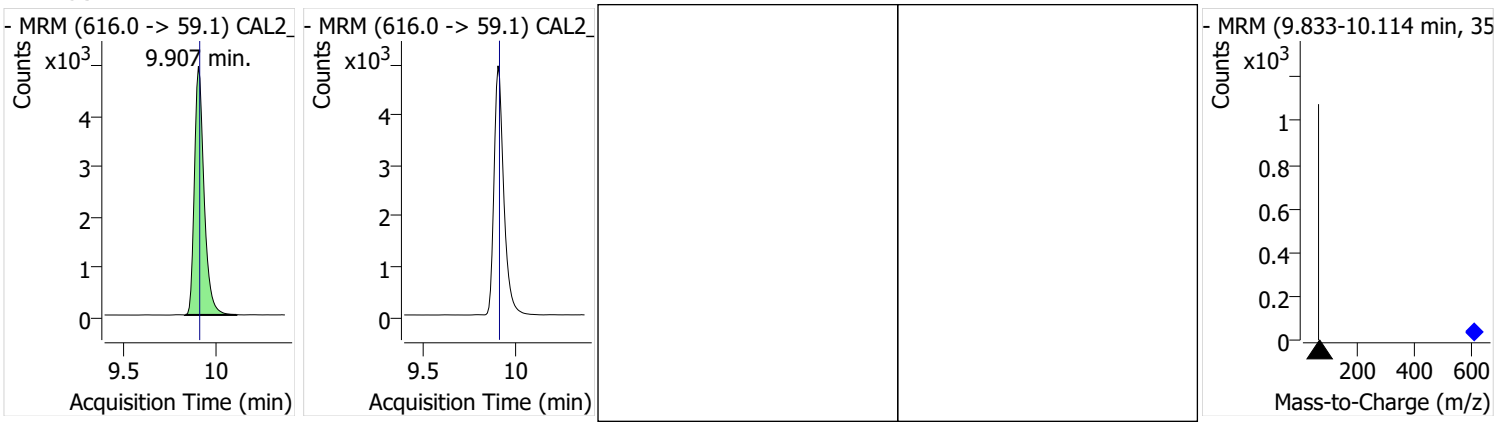

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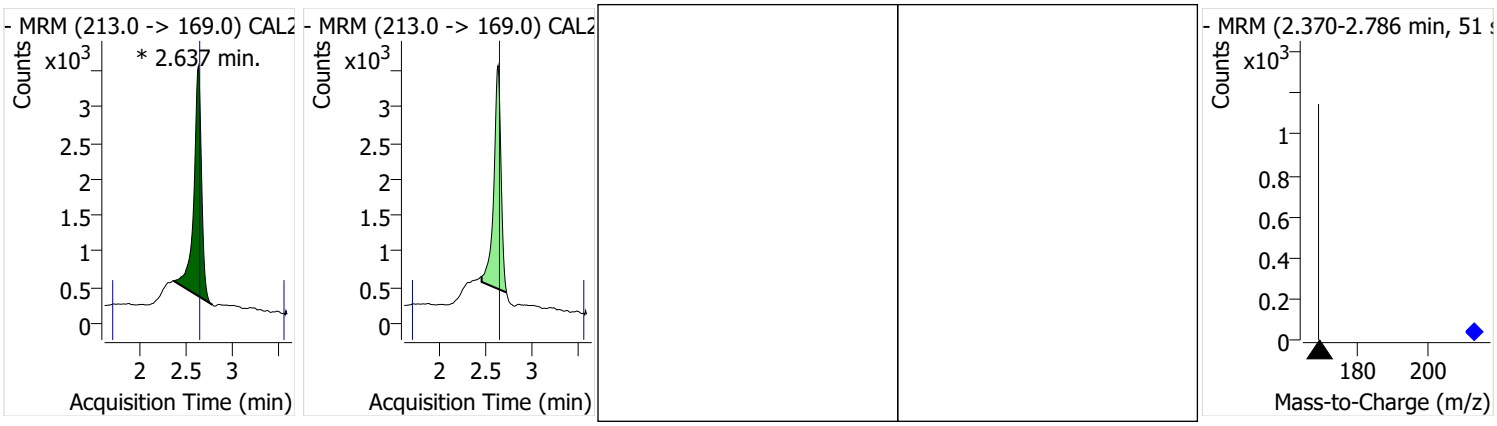

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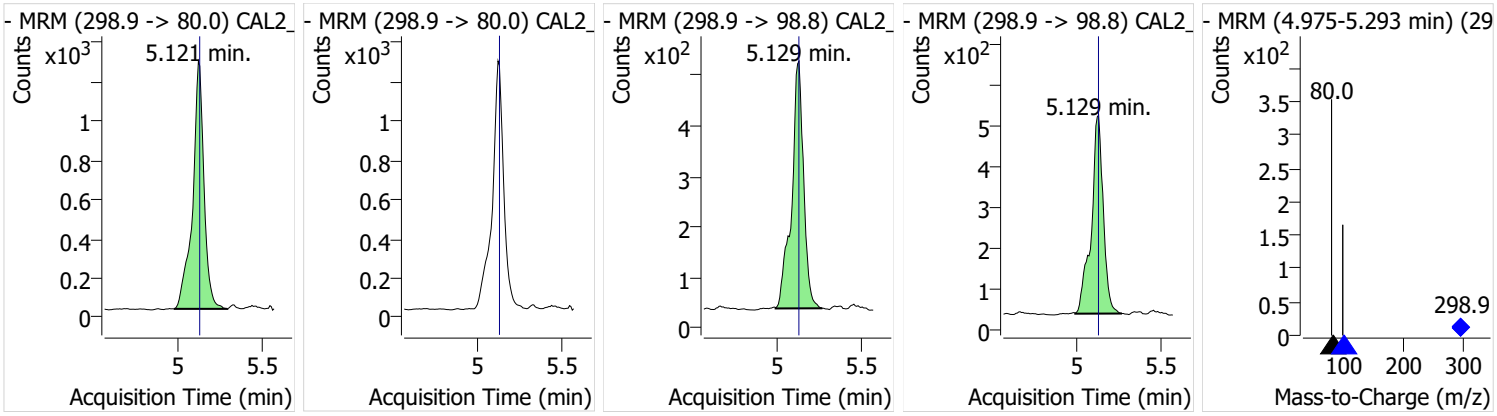

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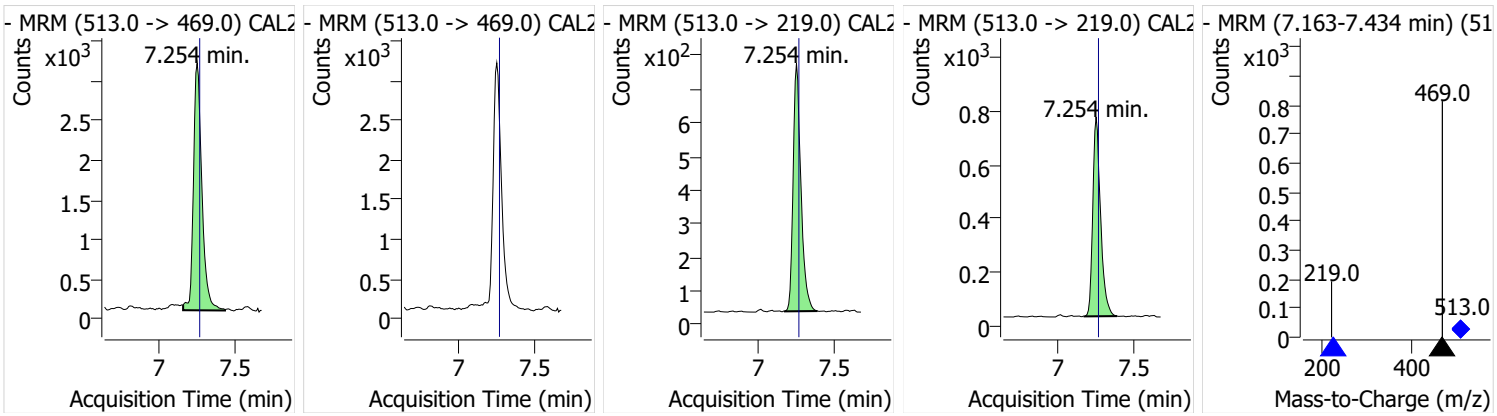

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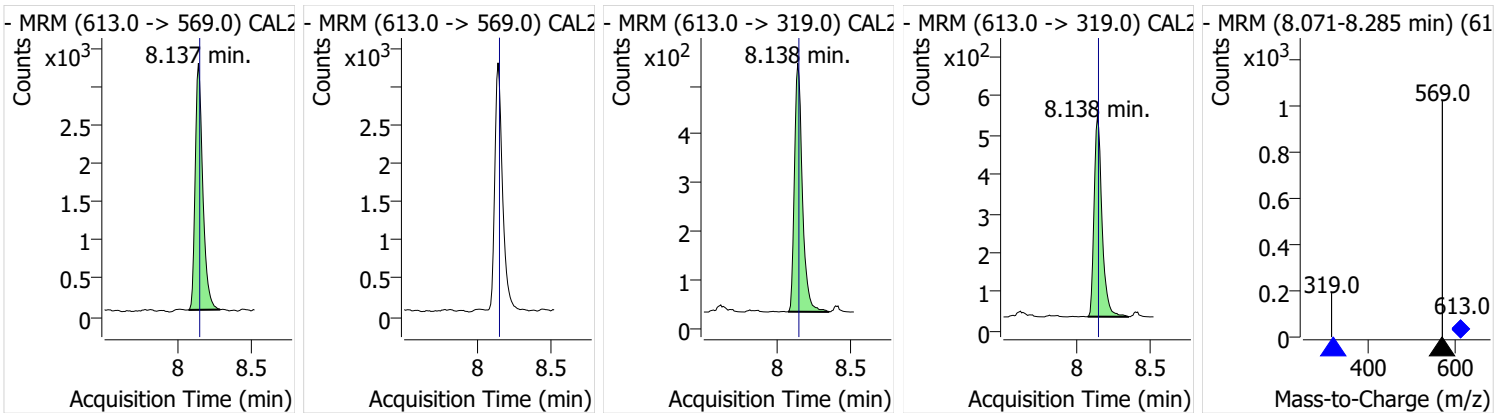

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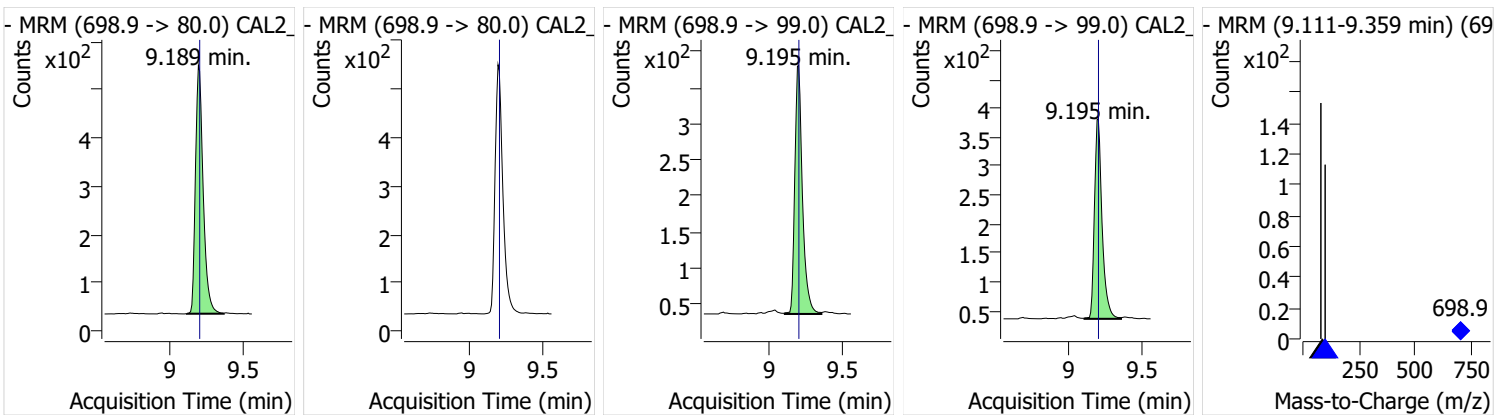

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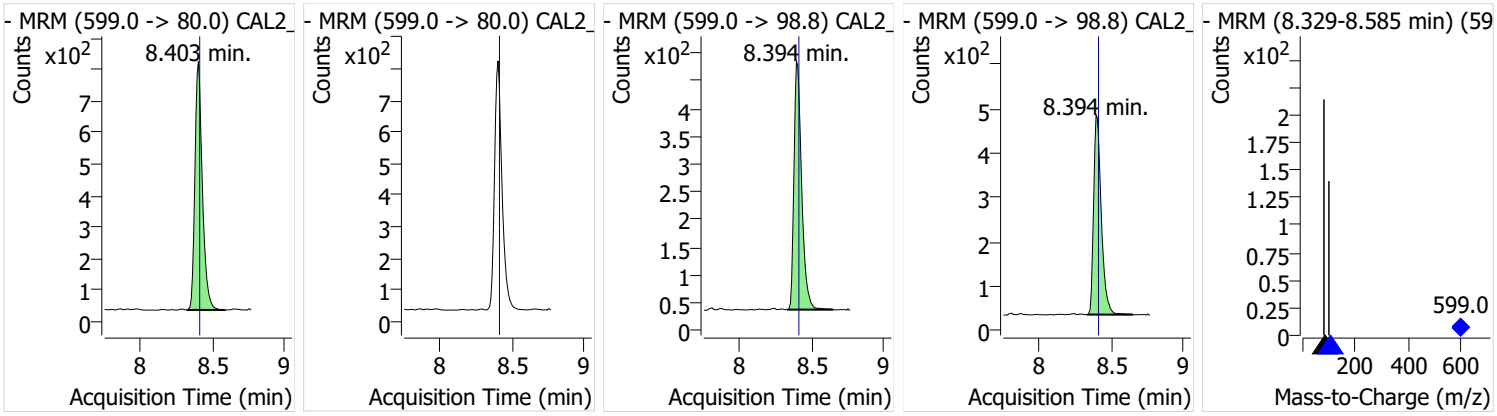

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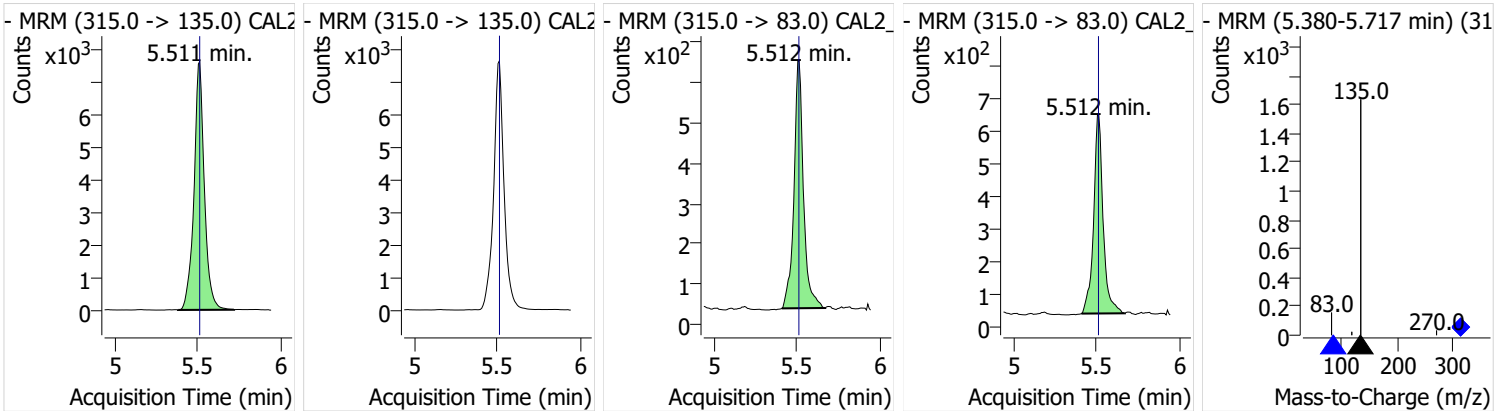

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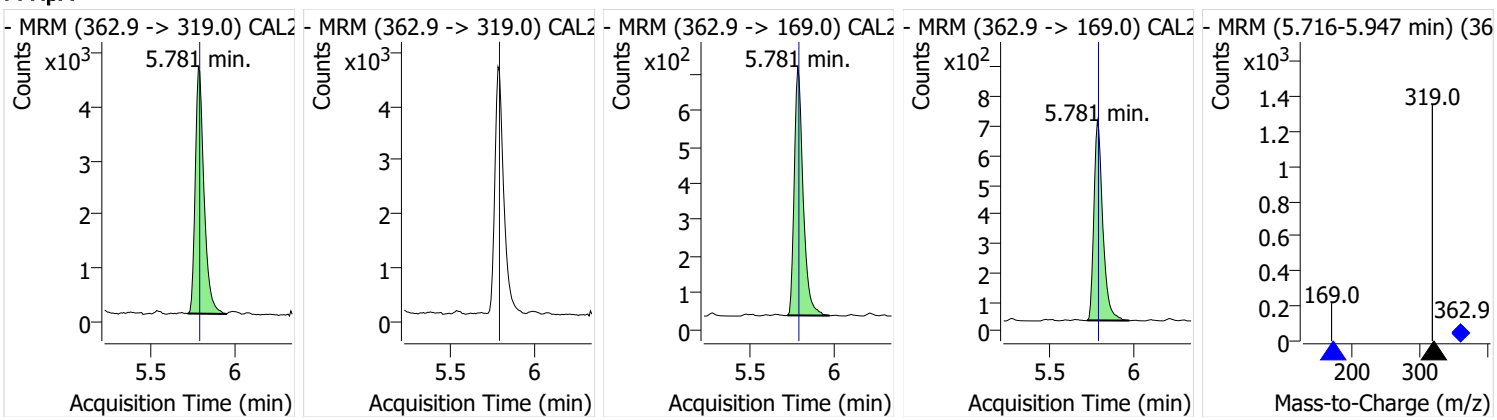

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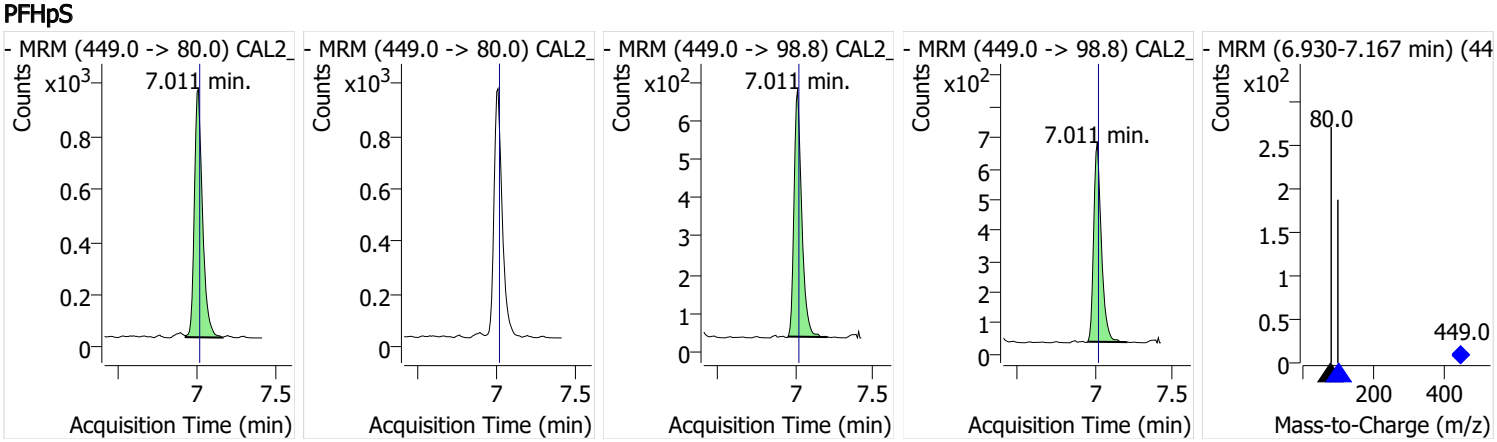

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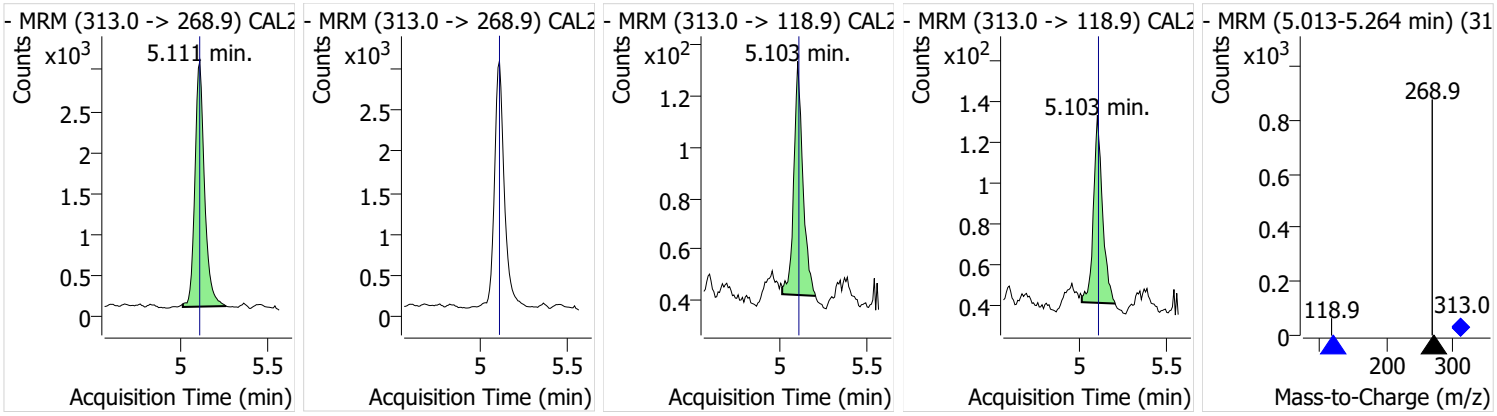

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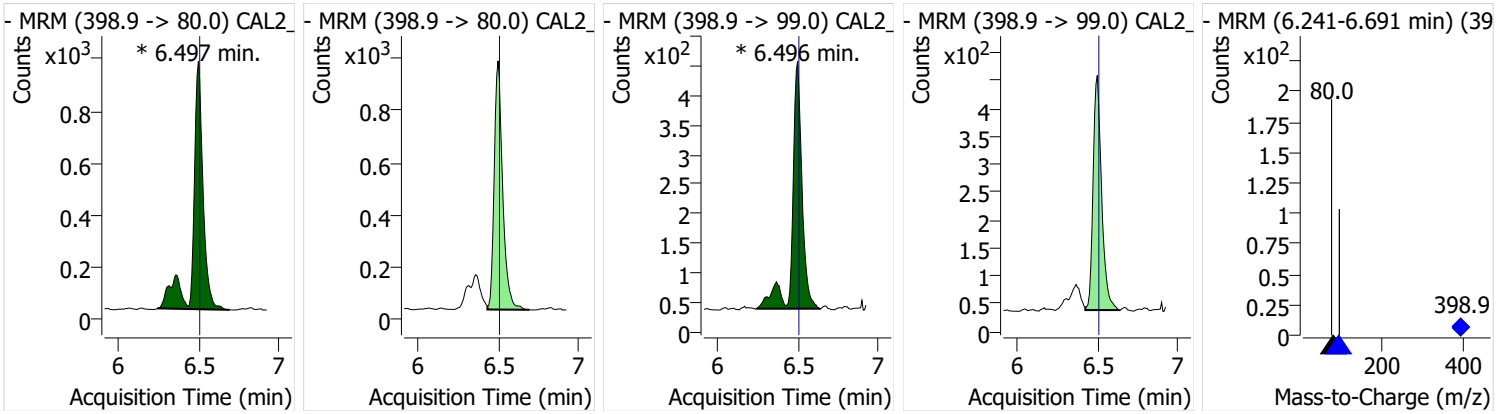

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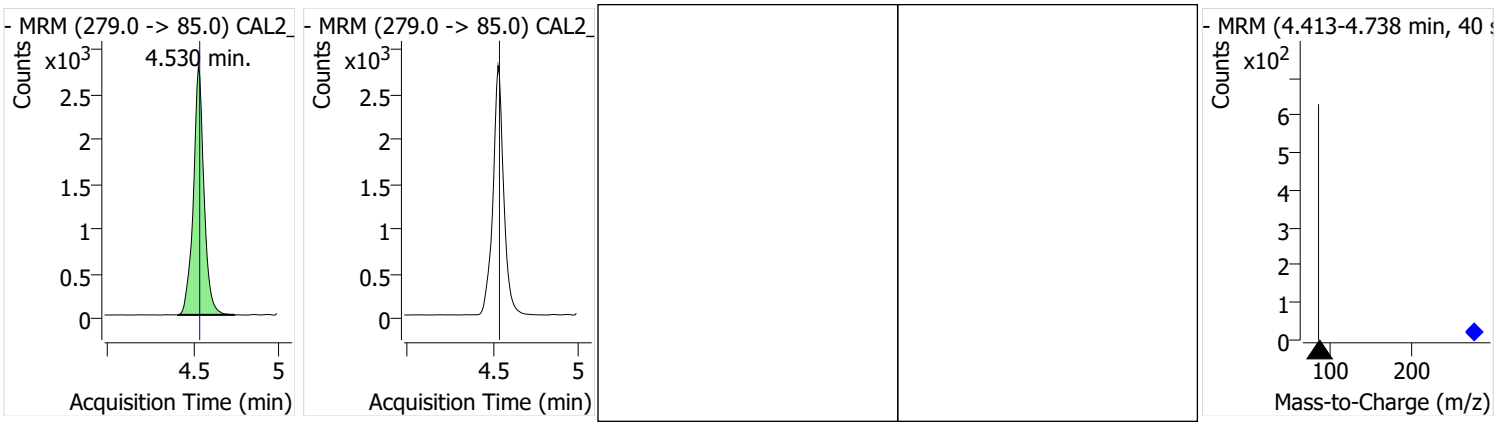

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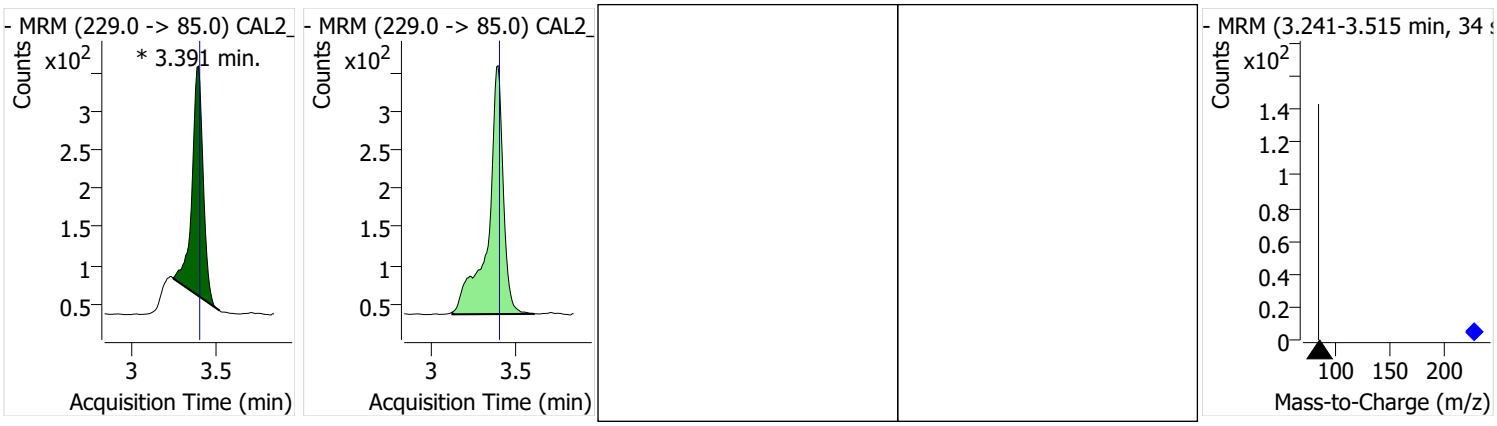

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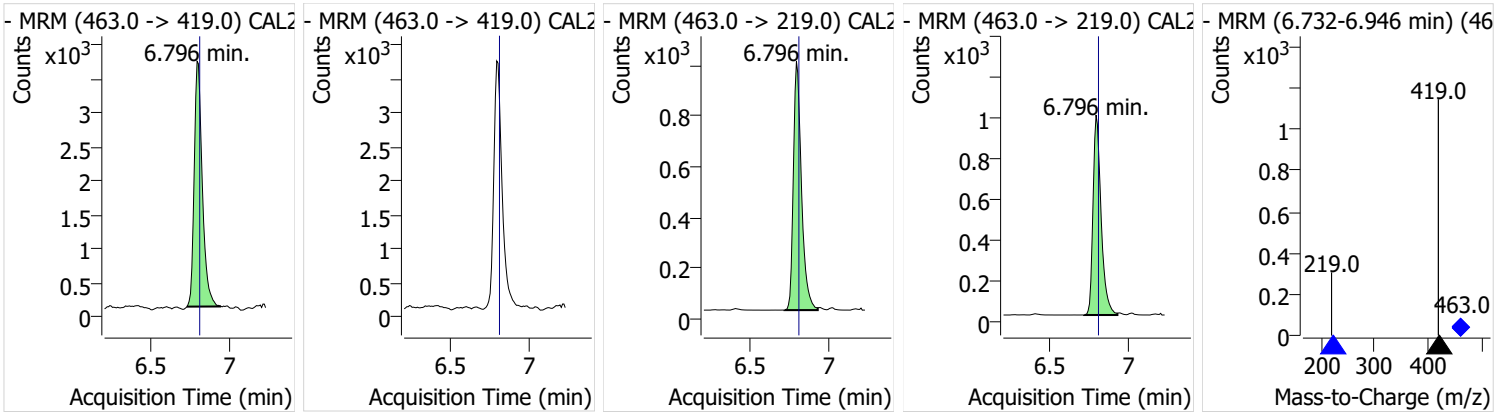

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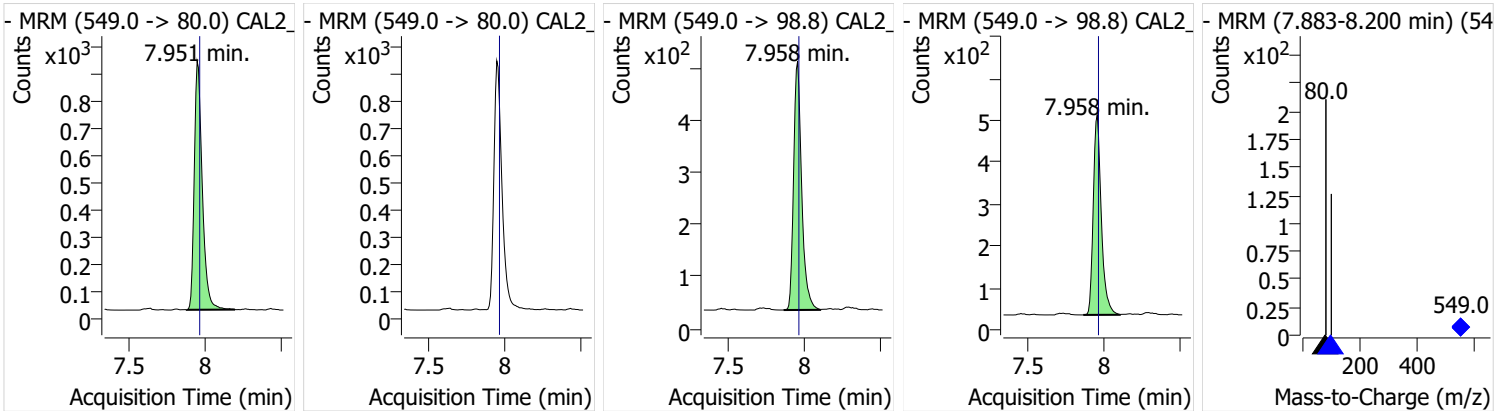

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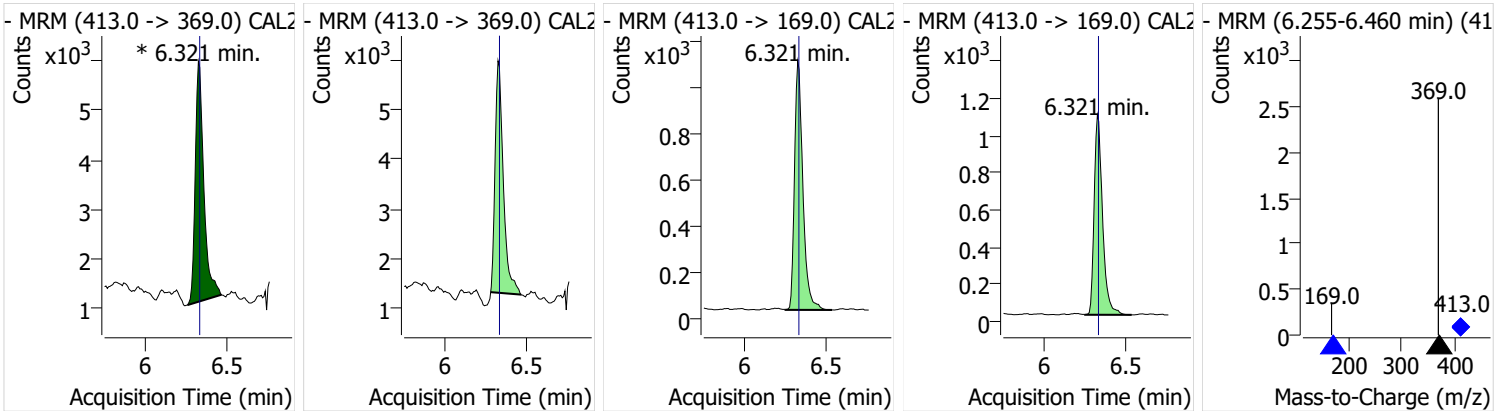

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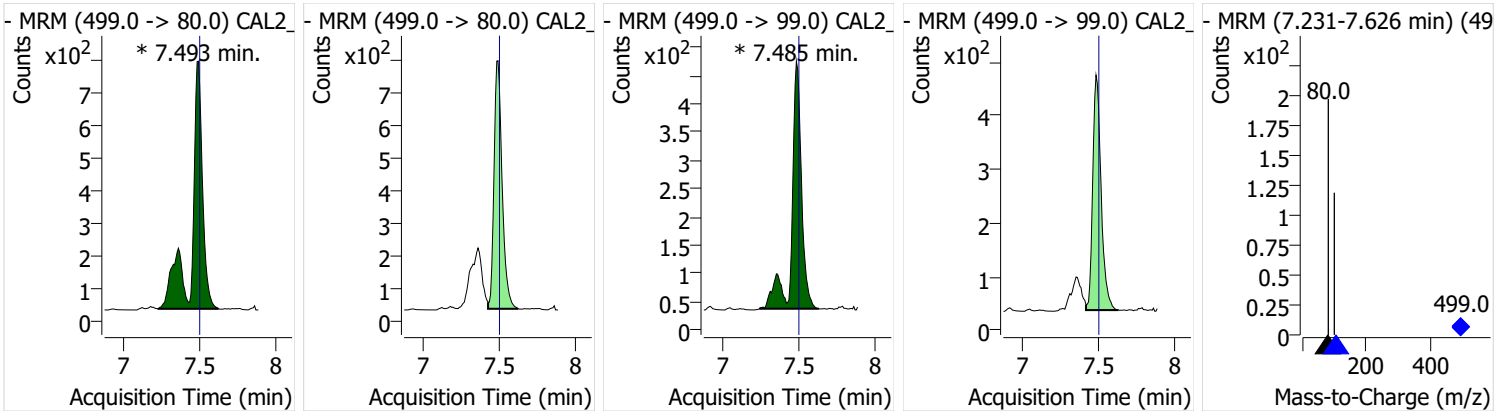

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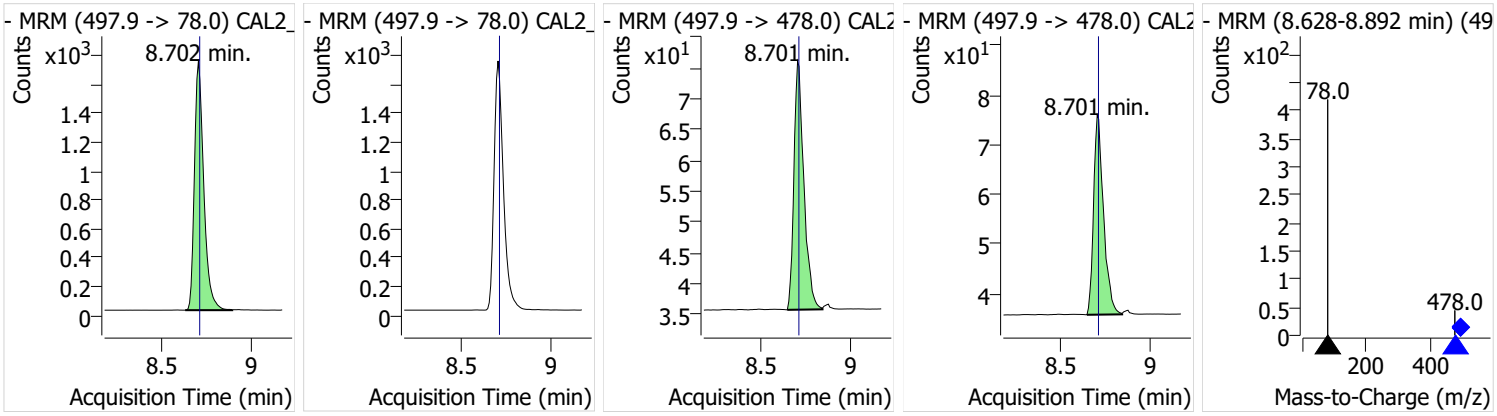

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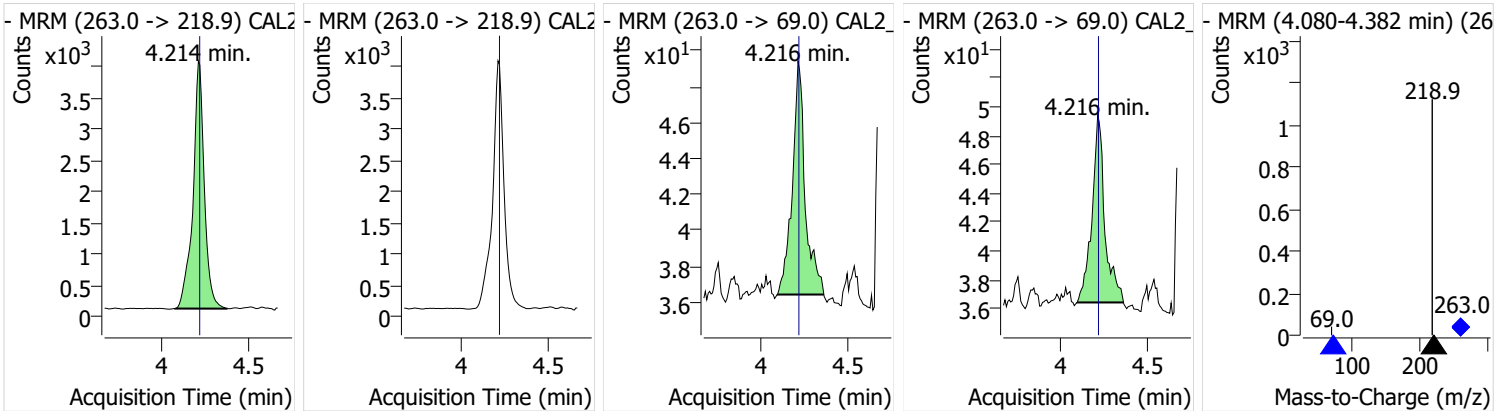

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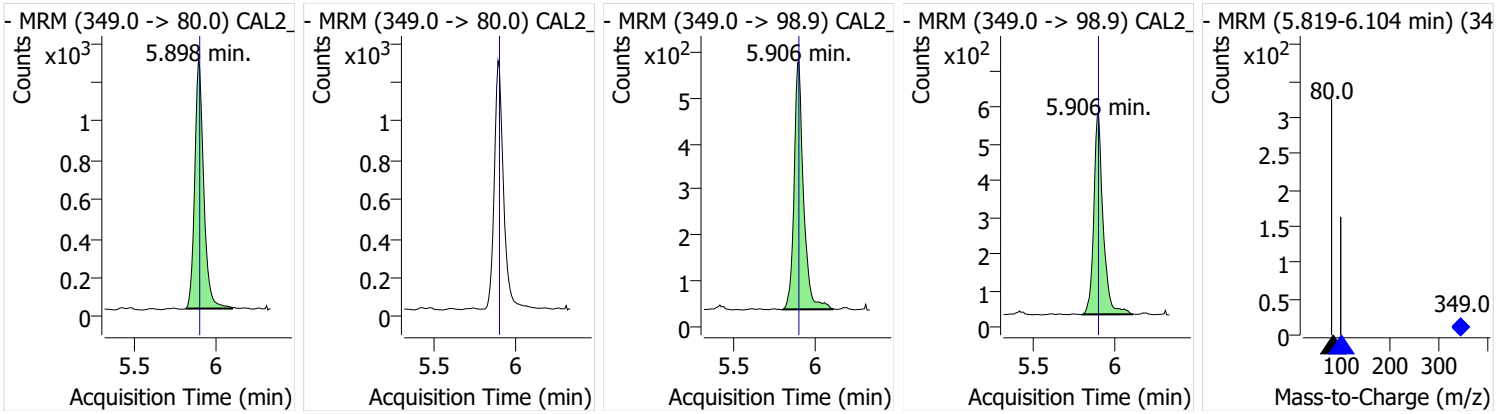

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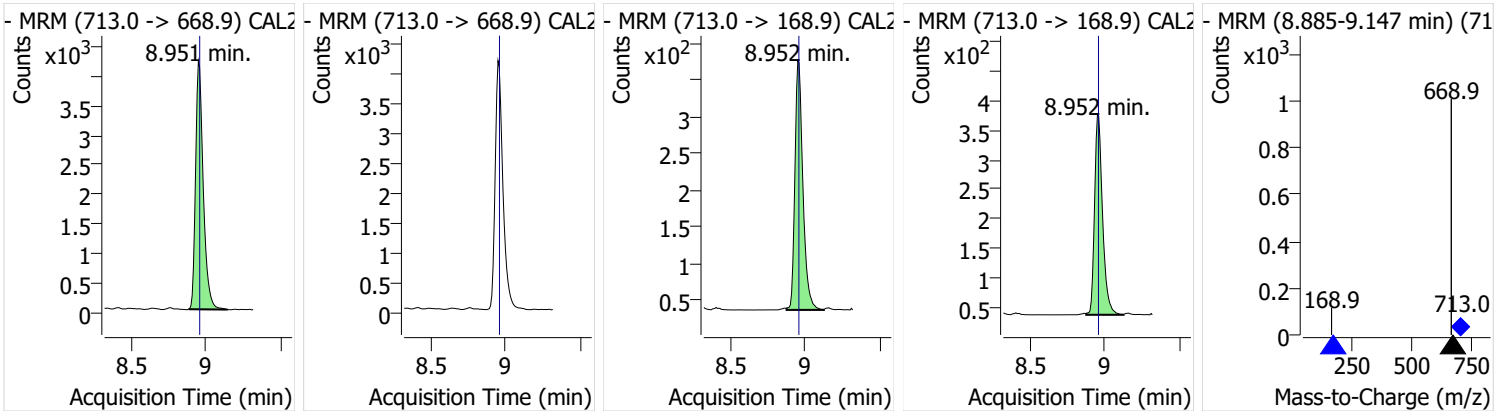

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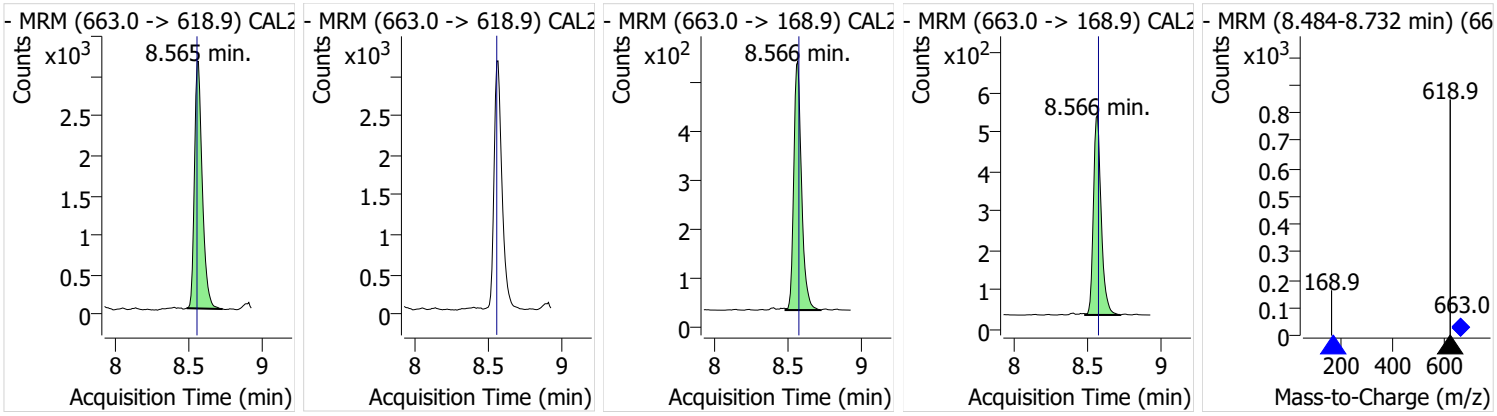

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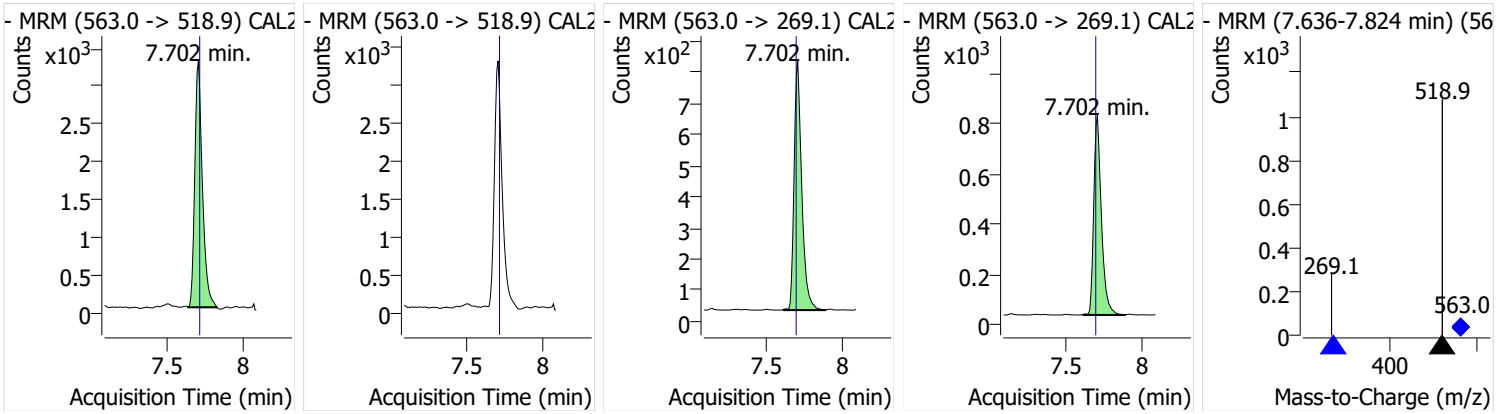
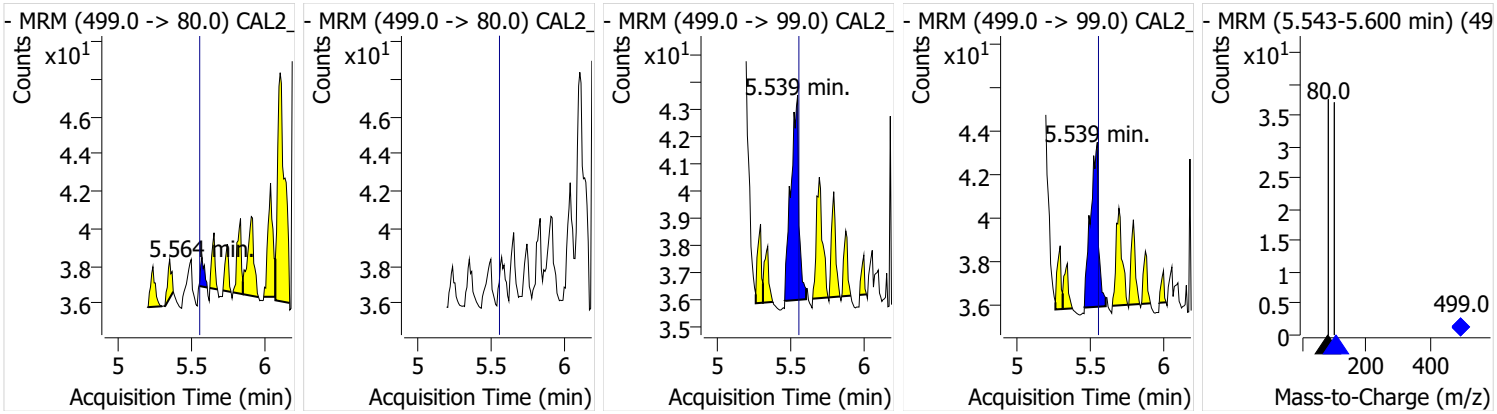
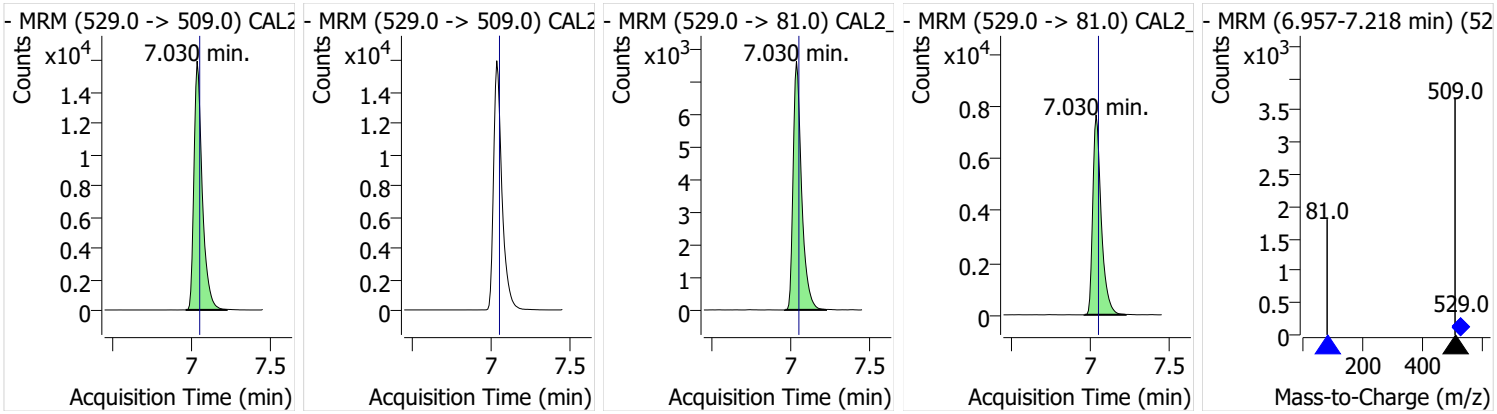


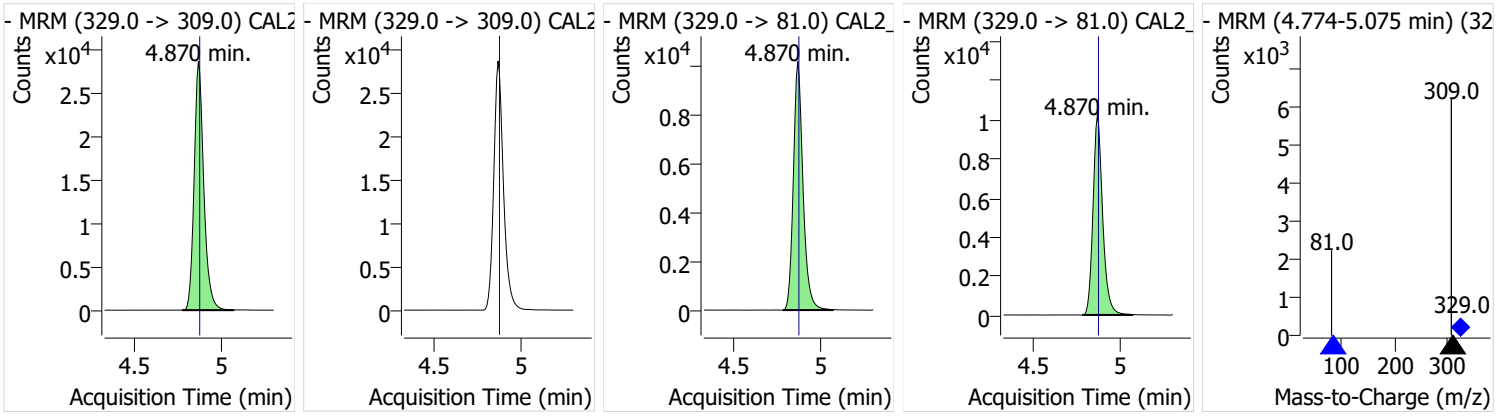
TDCA



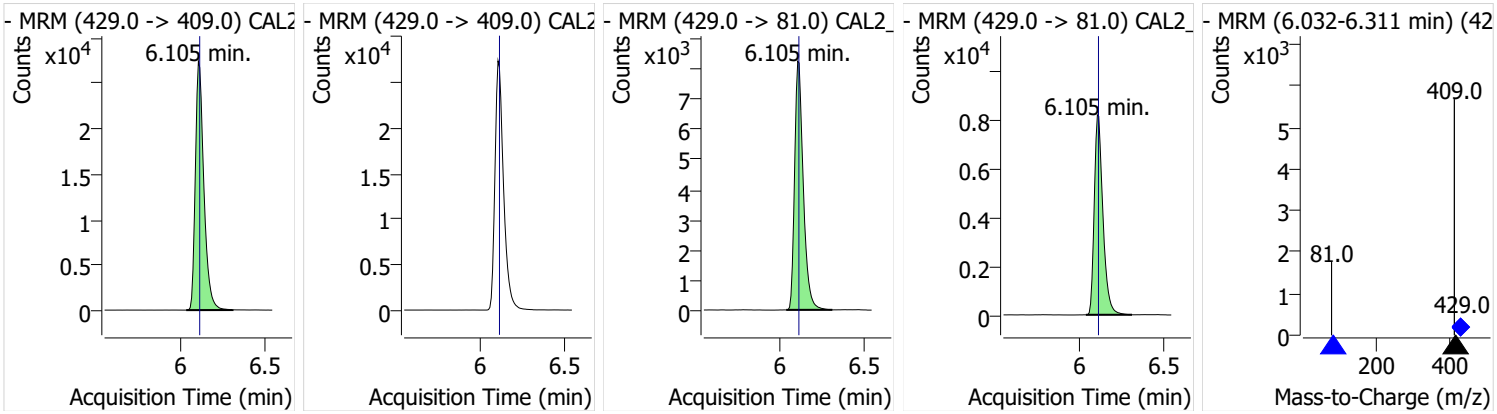
13C2-8:2FTS



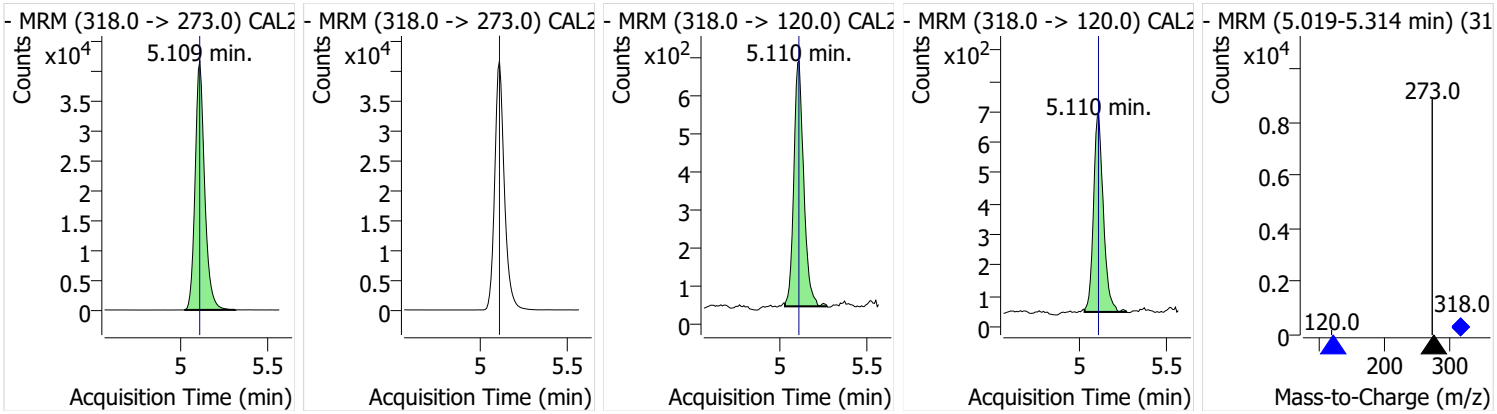
13C2-4:2FTS



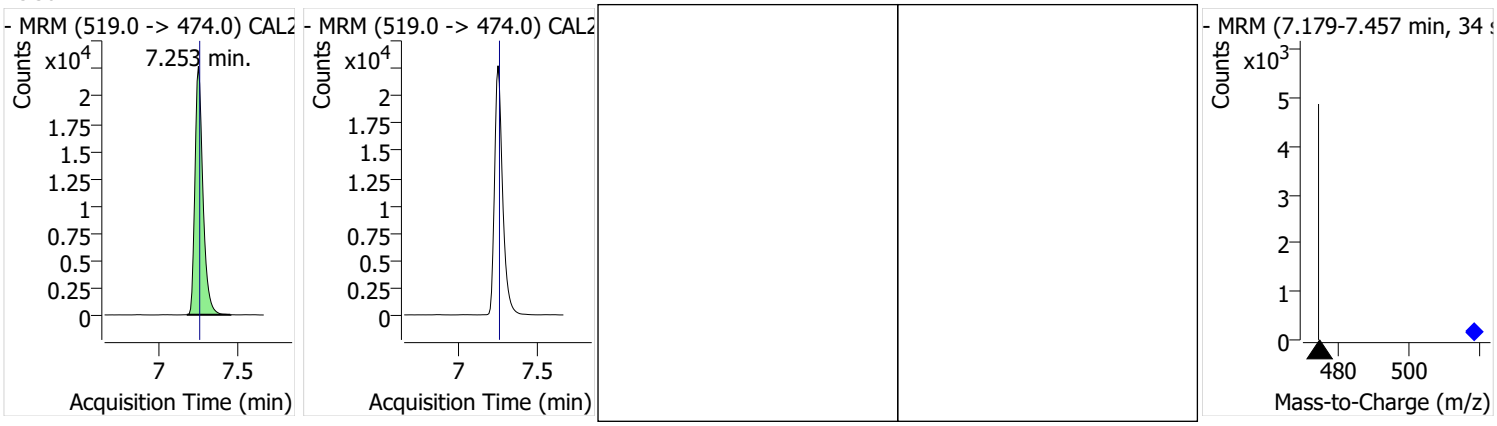
13C2-6:2FTS



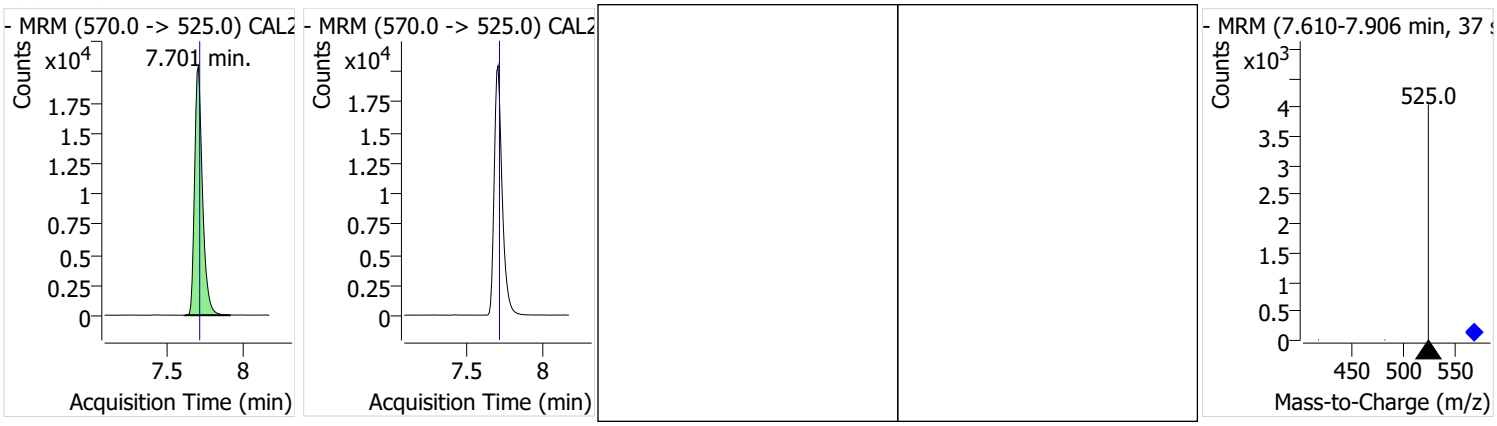
13C5-PFHxA



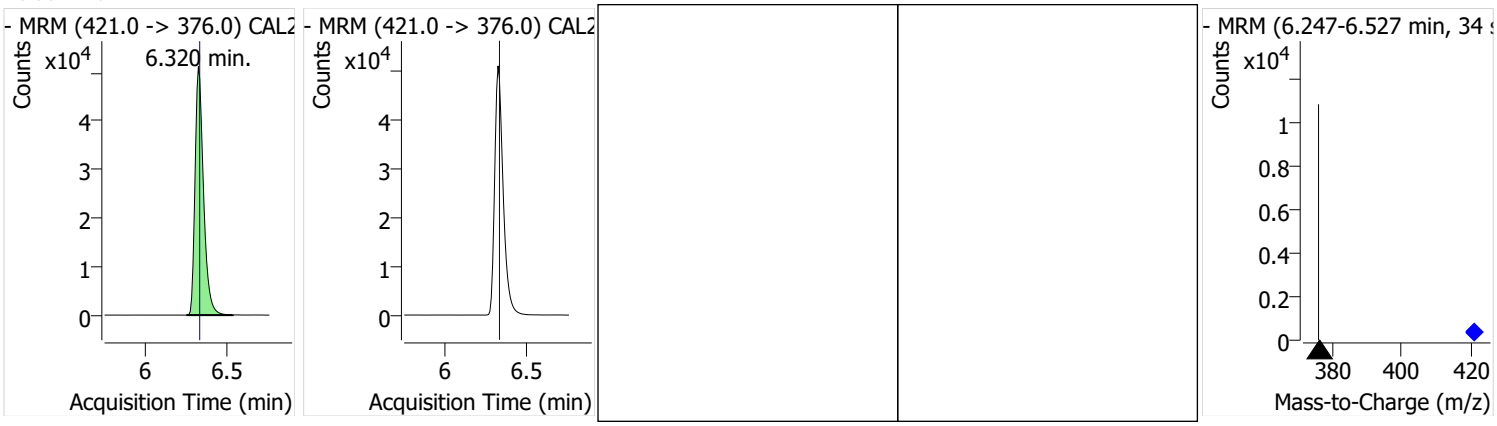
13C6-PFDA



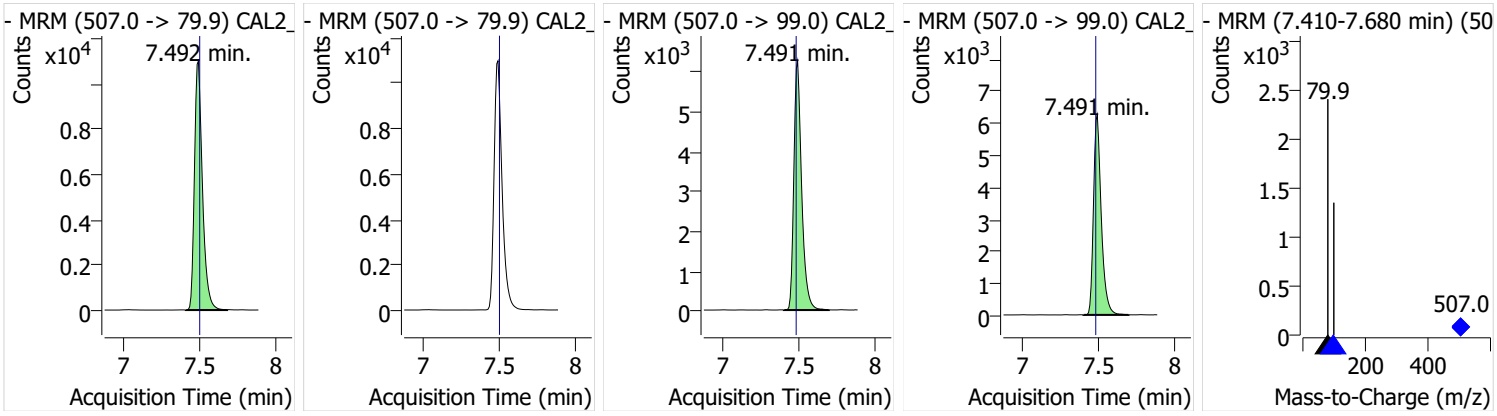
13C7-PFUnA



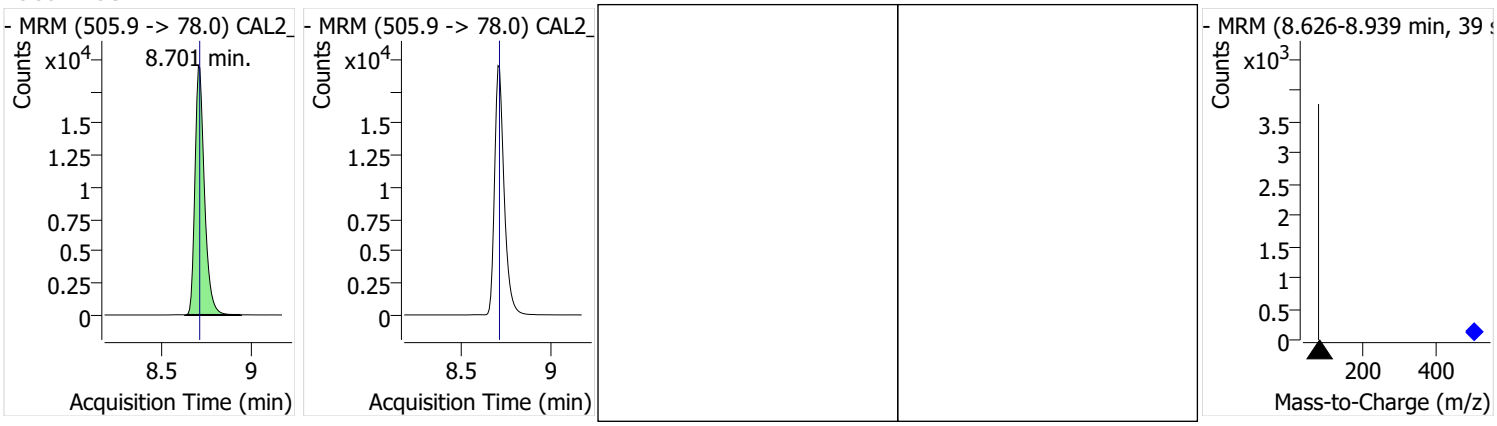
13C8-PFOA



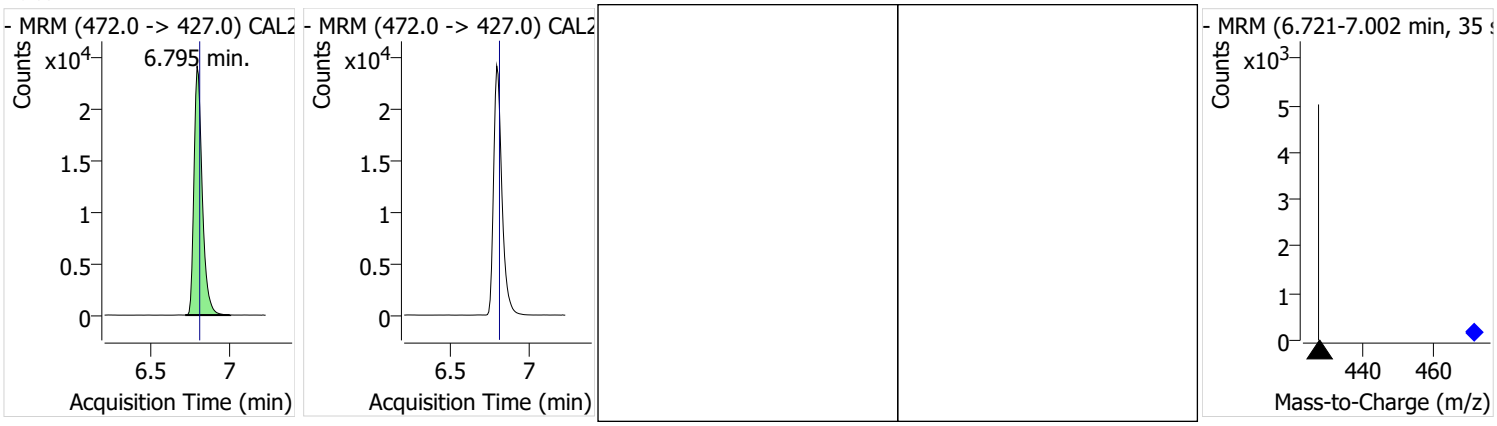
13C8-PFOS



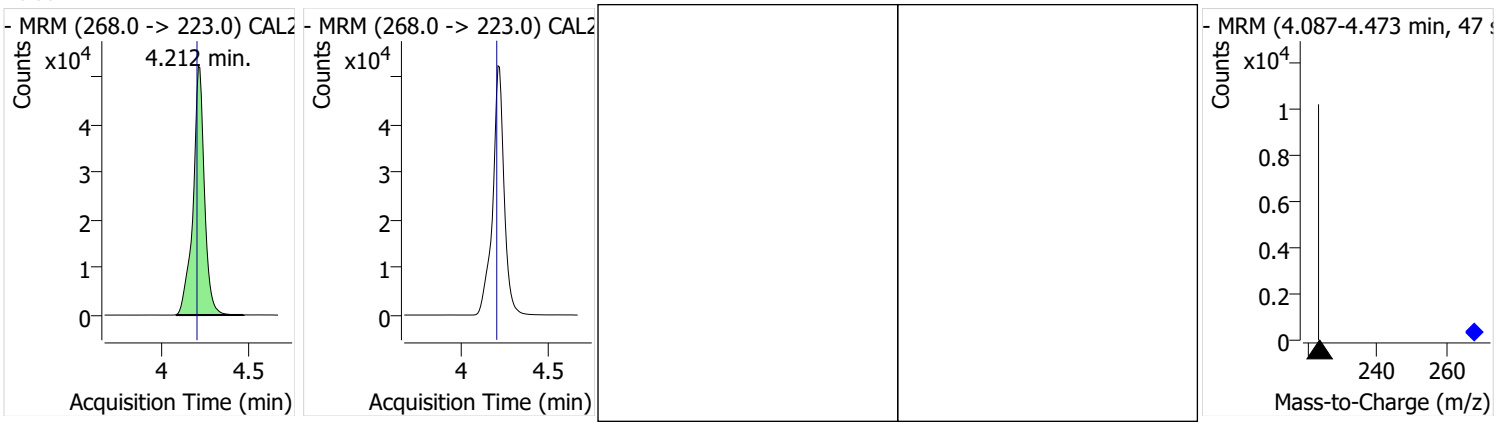
13C8-PFOSA



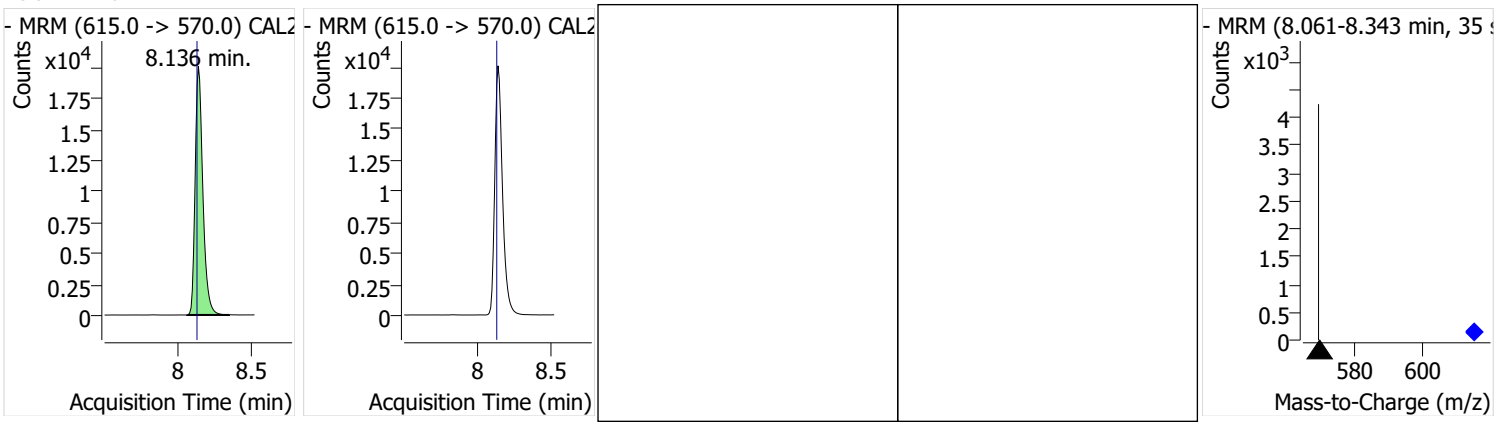
13C9-PFNA



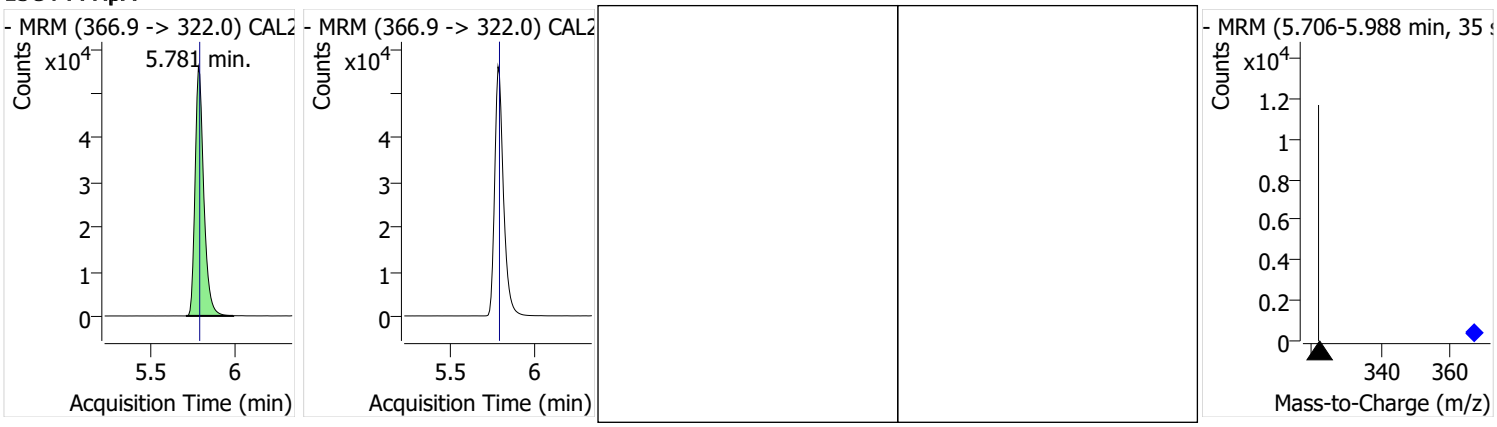
13C5-PFPeA



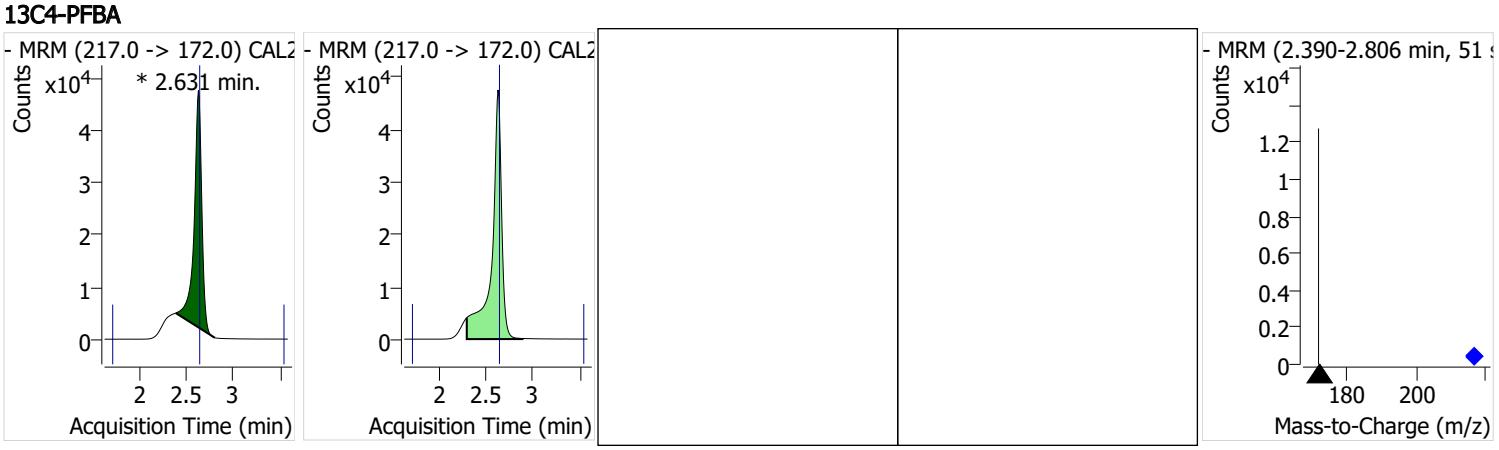
13C2-PFDoA



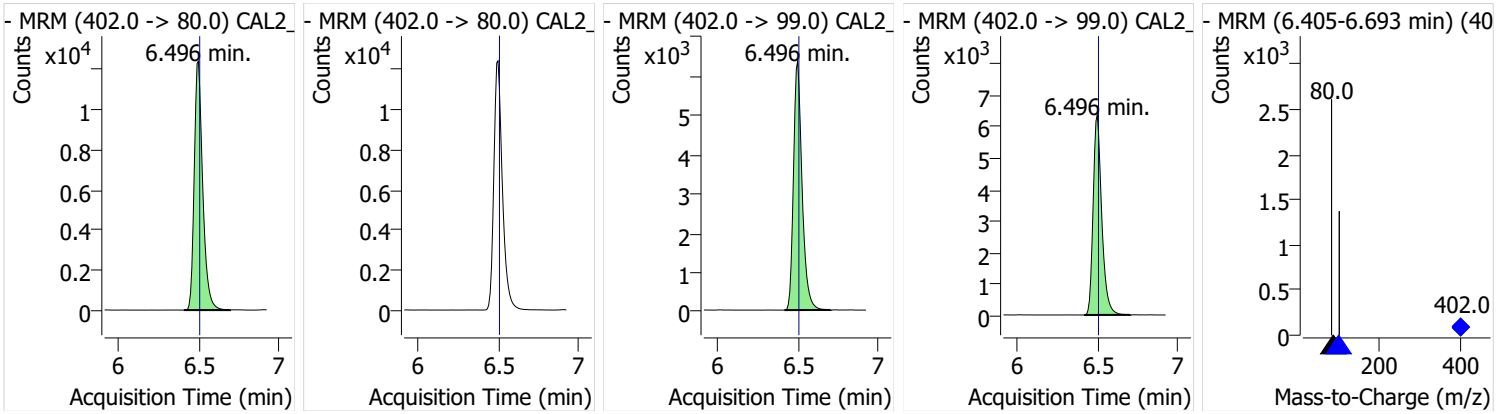
13C4-PFHpA



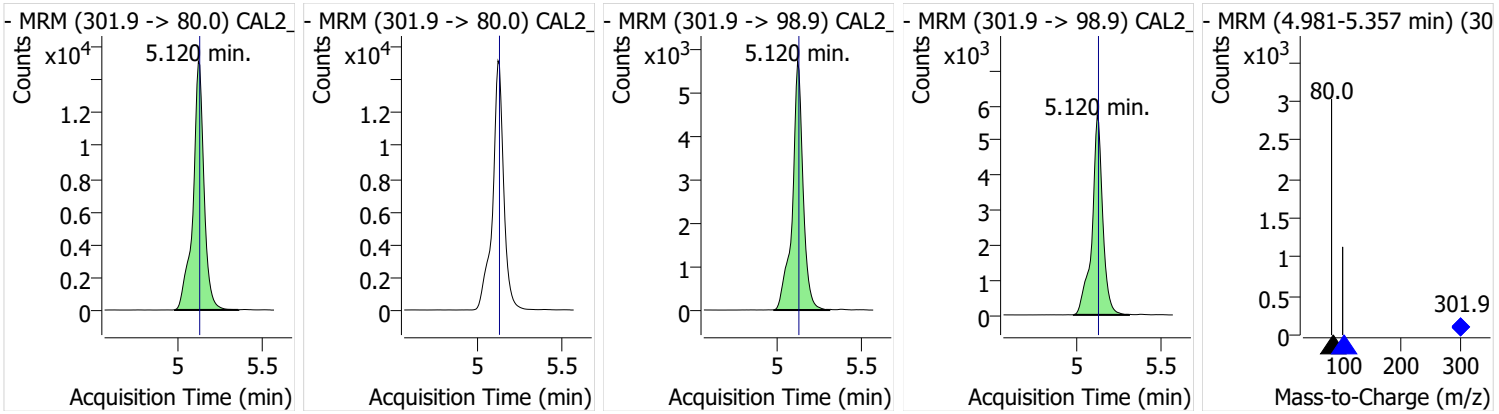
13C4-PFBA



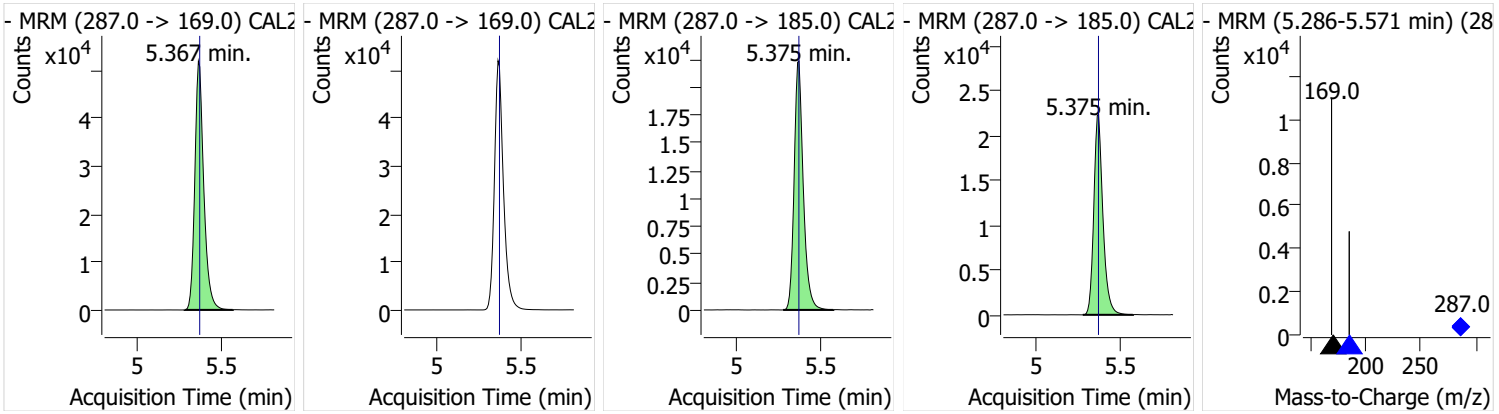
13C3-PFHxS



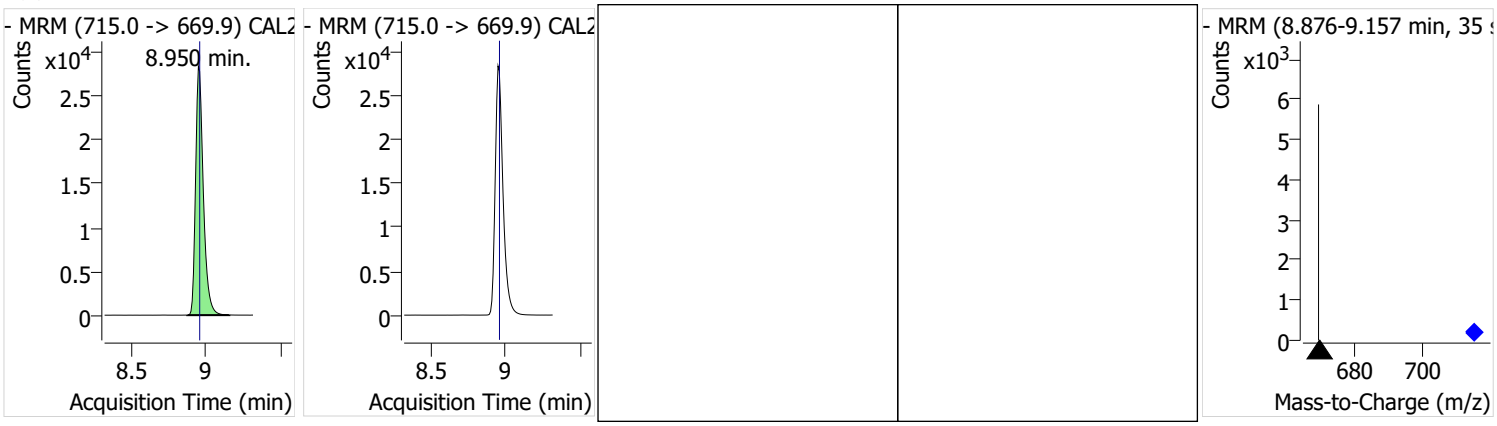
13C3-PFBS



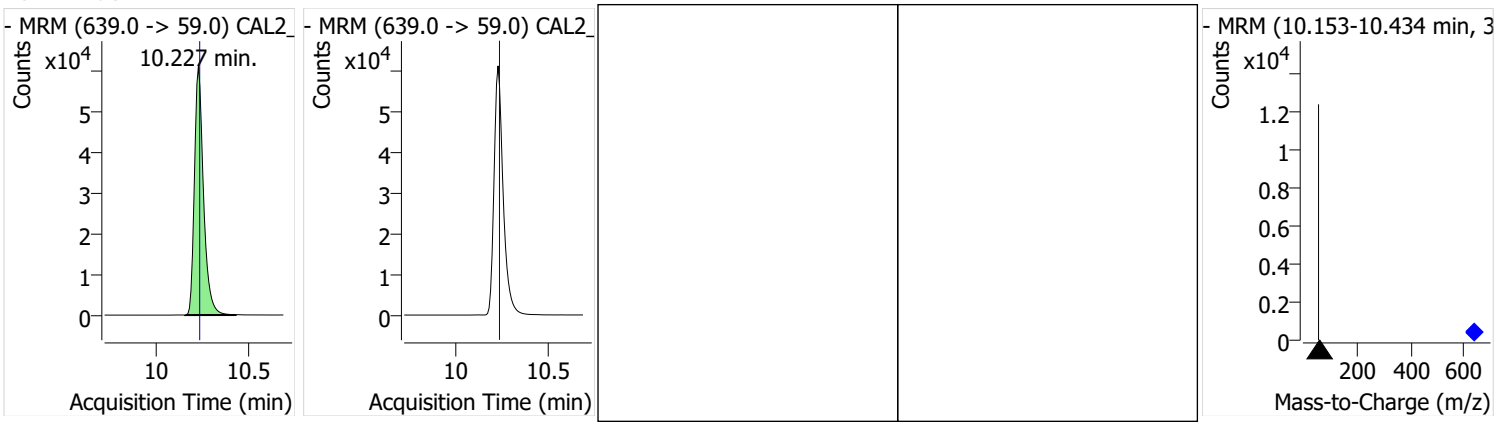
13C3-HFPODA



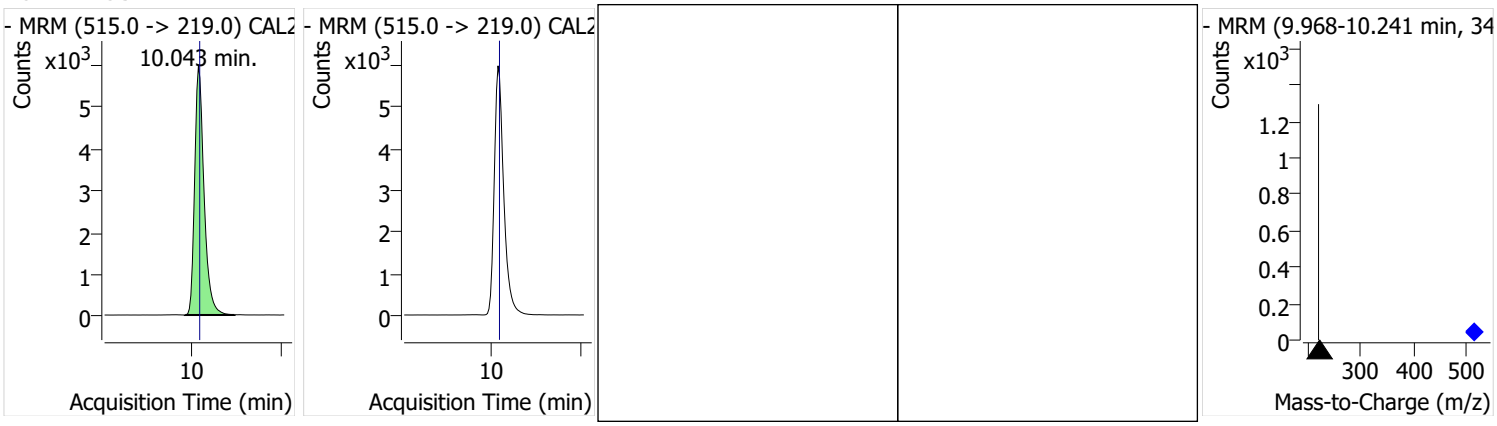
13C2-PFTeDA



D9-NEtFOSE



D3-NMeFOSA



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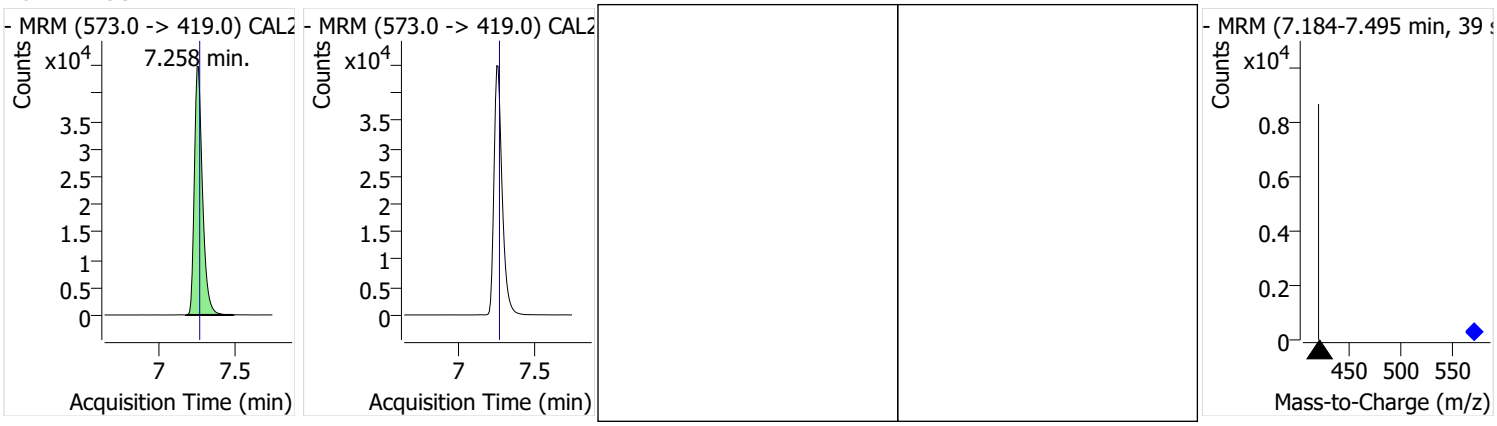
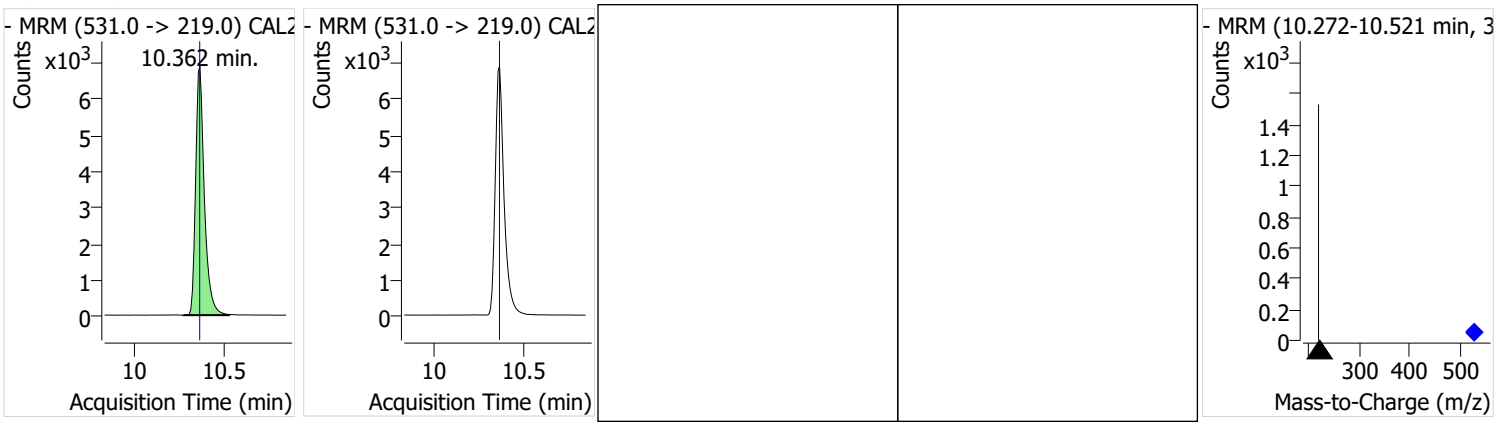


D5-NEtFOSA



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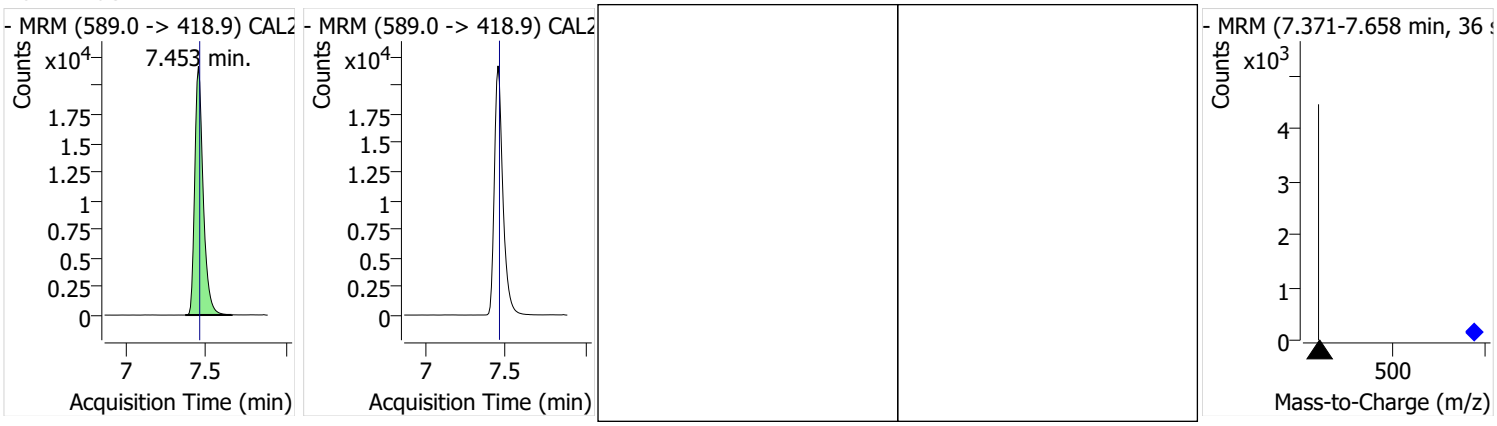
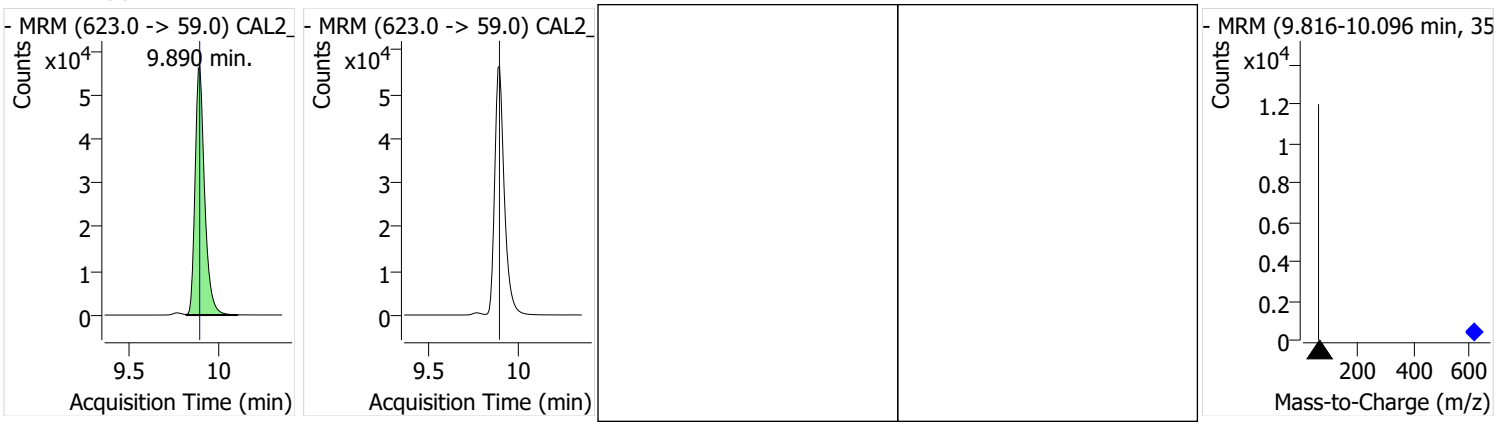


D7-NMeFOSE



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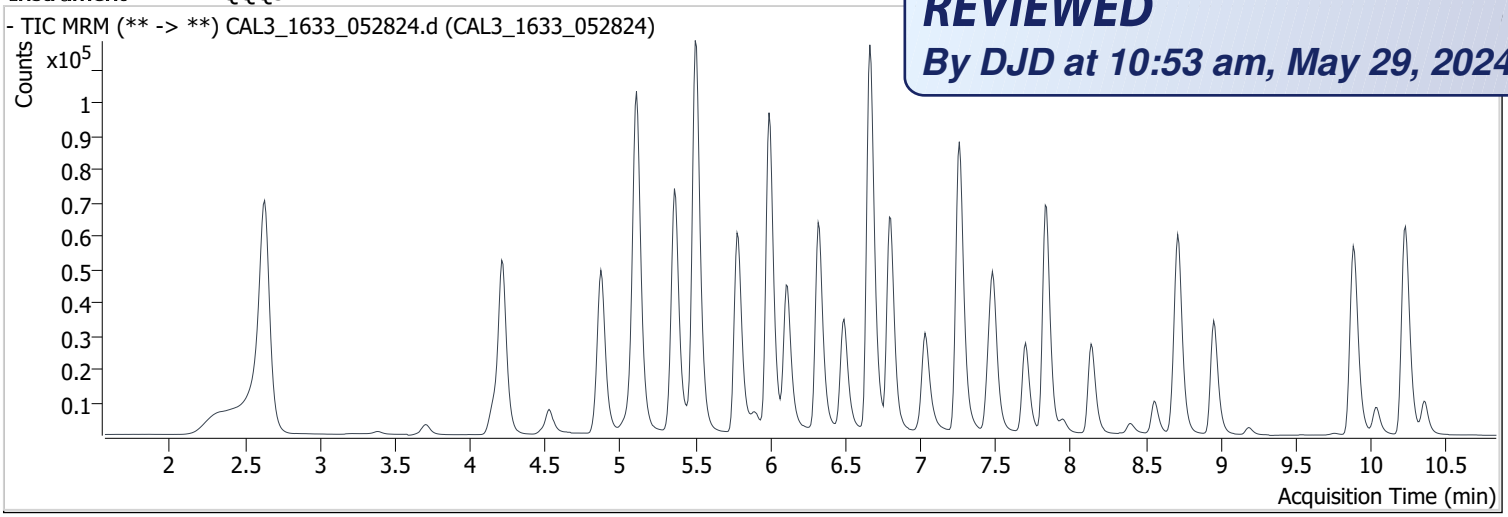
Acq. Time	5/28/2024 10:27 AM	**Data File**	CAL3_1633_052824.d
Sample Type	Cal	**Sample Name**	CAL3_1633_052824
Dilution	1	**Acq. Method**	1633_ACQUISITION.m
Sample Comment	E#24E0156	**Processing method**	1633_050624.m
Instrument	QQQ5		

REVIEWED
By DJD at 10:53 am, May 29, 2024



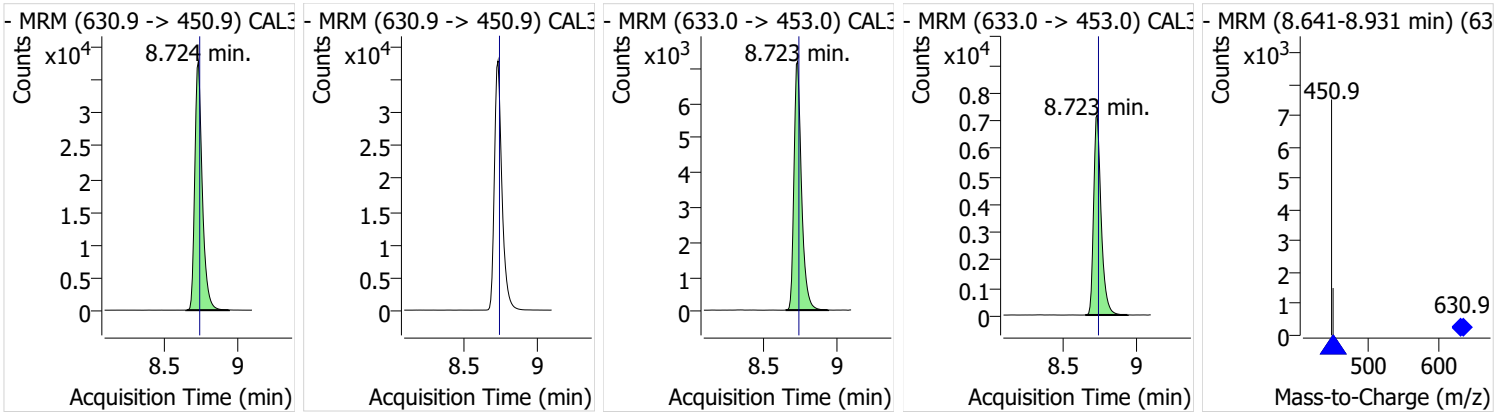
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
11Cl-PF3OUdS	8.724	133562	16010.85		13C3-HFPODA - ISTD	5.367	155330	2.2739	ng/ml			
633.0 -> 453.0			4953.29	19.1								
3:3FTCA	3.707	9453	5381.62		13C5-PFPeA - ISTD	4.212	194052	5.5427	ng/ml			
241.0 -> 117.0			698.09	50.1								
4:2FTS	4.871	47097	11121.17		13C2-4:2FTS - ISTD	4.870	33432	2.2388	ng/ml			
327.0 -> 80.9			3935.28	35.0								
5:3FTCA	5.501	187983	26115.10		13C5-PFHxA - ISTD	5.109	131462	27.8449	ng/ml			
341.0 -> 217.0			24187.21	89.8								
6:2FTS	6.106	31094	6315.65		13C2-6:2FTS - ISTD	6.105	24584	2.2248	ng/ml			
427.0 -> 80.9			2179.86	40.3								
7:3FTCA	6.666	226962	9739.91		13C5-PFHxA - ISTD	5.109	131462	26.8444	ng/ml			
441.0 -> 317.0			4124.42	89.3								
8:2FTS	7.031	19557	32527.23		13C2-8:2FTS - ISTD	7.030	23665	2.3017	ng/ml			
527.0 -> 81.0			2656.64	56.9								
9Cl-PF3ONS	7.835	193747	11609.26		13C3-HFPODA - ISTD	5.367	155330	2.1974	ng/ml			
533.0 -> 353.0			900.32	26.7								
ADONA	5.995	242188	15531.23		13C3-HFPODA - ISTD	5.367	155330	2.0757	ng/ml			
377.0 -> 85.1			15599.00	40.1								
HFPO-DA	5.368	31196	7431.76		13C3-HFPODA - ISTD	5.367	155330	2.3524	ng/ml			

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
285.0 -> 184.9			1095.00	49.6								
NEtFOSA	10.364	6094	3249.01		D5-NEtFOSA - ISTD	10.354	19588	0.5877	ng/ml			
526.0 -> 219.0			7390.64	96.6								
NEtFOSAA	7.461	7805	1902.13		D5-NEtFOSAA - ISTD	7.453	64174	0.5752	ng/ml	✔	3	AMS 05/29/24
584.0 -> 526.0			659.20	65.8								
NEtFOSE	10.245	52658	23795.05		D9-NEtFOSE - ISTD	10.219	193632	5.9218	ng/ml			
NFDHA	5.023	4745	1817.32		13C5-PFHxA - ISTD	5.109	131462	1.2884	ng/ml			
295.0 -> 85.0			619.35	34.5								
NMeFOSA	10.044	5034	5510.27		D3-NMeFOSA - ISTD	10.034	18519	0.5792	ng/ml			
512.0 -> 219.0			4899.65	92.9								
NMeFOSAA	7.266	5638	2368.65		D3-NMeFOSAA - ISTD	7.266	136995	0.5642	ng/ml	✔	3	AMS 05/29/24
570.0 -> 418.9			1926.94	65.3								
NMeFOSE	9.899	47835	33548.50		D7-NMeFOSE - ISTD	9.881	175662	6.0790	ng/ml			
PFBA	2.628	45474	1038.79		13C4-PFBA - ISTD	2.631	221983	2.2622	ng/ml	✔	3	AMS 05/29/24
PFBS	5.121	14050	1125.81		13C3-PFBS - ISTD	5.120	56573	0.5258	ng/ml			
298.9 -> 98.8			461.27	42.9								
PFDA	7.254	29292	563.51		13C6-PFDA - ISTD	7.253	64023	0.5841	ng/ml			
513.0 -> 219.0			7664.45	23.0								
PFDoA	8.137	29415	1443.63		13C2-PFDoA - ISTD	8.136	61625	0.5944	ng/ml			
613.0 -> 319.0			1284.75	17.7								
PFDoS	9.189	4800	3997.80		13C8-PFOS - ISTD	7.492	33186	0.5927	ng/ml			
698.9 -> 99.0			1440.01	63.6								
PFDS	8.403	6628	2290.69		13C8-PFOS - ISTD	7.492	33186	0.5709	ng/ml			
599.0 -> 98.8			1756.92	60.5								
PFEESA	5.503	85059	9213.97		13C5-PFHxA - ISTD	5.109	131462	1.1033	ng/ml			
315.0 -> 83.0			1008.67	7.0								
PFHpA	5.781	39279	2128.42		13C4-PFHpA - ISTD	5.781	168035	0.5646	ng/ml			
362.9 -> 169.0			1687.32	15.0								
PFHpS	7.011	9296	1587.44		13C8-PFOS - ISTD	7.492	33186	0.5829	ng/ml			
449.0 -> 98.8			1360.60	49.2								
PFHxA	5.103	31206	988.18		13C5-PFHxA - ISTD	5.109	131462	0.6058	ng/ml			
313.0 -> 118.9			138.14	3.2								
PFHxS	6.497	9816	1457.58		13C3-PFHxS - ISTD	6.496	39583	0.5200	ng/ml	✔	3	AMS 05/29/24

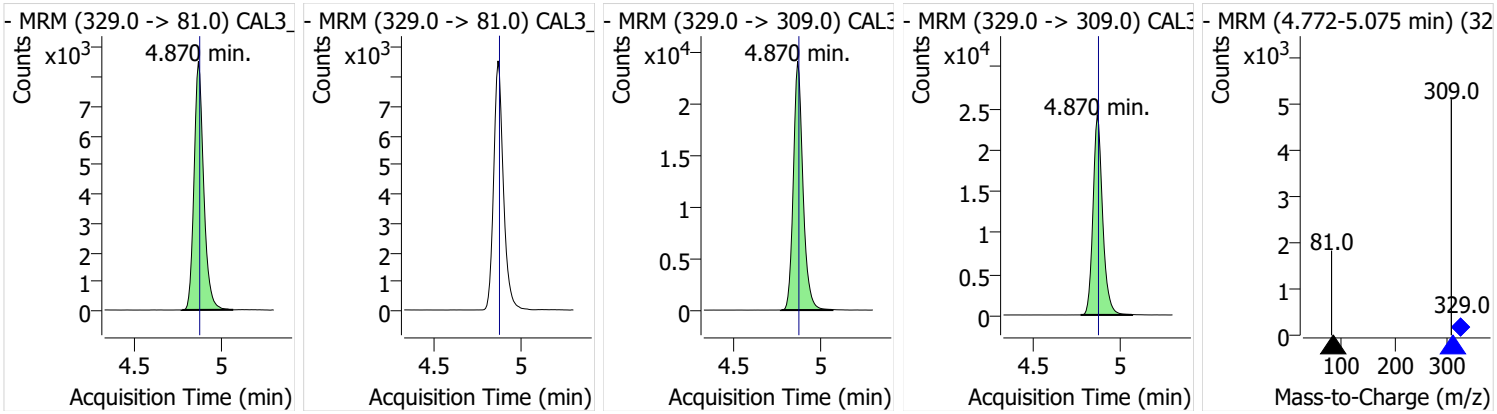
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
398.9 -> 99.0			545.43	47.6								
PFMBA	4.530	31395	20056.32		13C5-PFPeA - ISTD	4.212	194052	1.2288	ng/ml			
PFMPA	3.391	3180	2621.50		13C5-PFPeA - ISTD	4.212	194052	1.1756	ng/ml	✔	3	AMS 05/29/24
PFNA	6.804	33742	992.56		13C9-PFNA - ISTD	6.795	72931	0.5873	ng/ml			
463.0 -> 219.0			2231.53	22.1								
PFNS	7.951	8015	2808.90		13C8-PFOS - ISTD	7.492	33186	0.5607	ng/ml			
549.0 -> 98.8			1375.32	52.4								
PFOA	6.321	40972	219.92		13C8-PFOA - ISTD	6.320	146520	0.6090	ng/ml	✔	3	AMS 05/29/24
413.0 -> 169.0			2660.71	21.1								
PFOS	7.493	8477	2233.77		13C8-PFOS - ISTD	7.492	33186	0.5269	ng/ml	✔	3	AMS 05/29/24
499.0 -> 99.0			692.95	48.6								
PFOSA	8.702	15088	134305.51		13C8-PFOSA - ISTD	8.701	60503	0.5789	ng/ml			
497.9 -> 478.0			6260.35	2.6								
PFPeA	4.214	44404	3114.92		13C5-PFPeA - ISTD	4.212	194052	1.1614	ng/ml			
263.0 -> 69.0			106.01	0.2								
PFPeS	5.898	11164	1927.94		13C3-PFHxS - ISTD	6.496	39583	0.5206	ng/ml			
349.0 -> 98.9			2086.90	49.5								
PFTeDA	8.951	37384	1848.12		13C2-PFTeDA - ISTD	8.950	81613	0.5916	ng/ml			
713.0 -> 168.9			2785.50	7.6								
PFTrDA	8.557	30553	2266.14		13C2-PFDoA - ISTD	8.136	61625	0.5963	ng/ml			
663.0 -> 168.9			3420.61	15.0								
PFUnA	7.702	26959	1003.22		13C7-PFUnA - ISTD	7.701	61671	0.5638	ng/ml			
563.0 -> 269.1			1714.35	25.7								
TDCA	5.531	3	4.02					-	ng/ml			
499.0 -> 99.0			8.17	*409.3								
13C2-8:2FTS	7.030	49338	215593.05		18O2-PFHxS	6.495	46538	3.8821	ng/ml			
529.0 -> 81.0			8944.01	48.0								
13C2-4:2FTS	4.870	94799	21036.95		18O2-PFHxS	6.495	46538	4.0013	ng/ml			
329.0 -> 81.0			9769.12	35.3								
13C2-6:2FTS	6.113	82454	27975.97		18O2-PFHxS	6.495	46538	3.9155	ng/ml			
429.0 -> 81.0			4601.13	29.8								
13C5-PFHxA	5.109	131462	11261.58		13C2-PFHxA	5.110	152654	2.0325	ng/ml			
318.0 -> 120.0			202.36	1.7								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
13C6-PFDA	7.253	64023	5257.17		13C2-PFDA	7.253	80608	0.9974	ng/ml			
13C7-PFUnA	7.701	61671	8877.34		13C2-PFDA	7.253	80608	1.0277	ng/ml			
13C8-PFOA	6.320	146520	34300.54		13C4-PFOA	6.320	22799	1.9640	ng/ml			
13C8-PFOS	7.492	33186	5976.31		13C4-PFOS	7.492	43403	2.0614	ng/ml			
507.0 -> 99.0			3297.68	54.2								
13C8-PFOSA	8.701	60503	502841.28		13C4-PFOS	7.492	43403	2.0799	ng/ml			
13C9-PFNA	6.795	72931	4722.13		13C5-PFNA	6.796	114498	1.0352	ng/ml			
13C5-PFPeA	4.212	194052	16703.26		13C2-PFHxA	5.110	152654	4.0460	ng/ml			
13C2-PFDoA	8.136	61625	5465.84		13C2-PFDA	7.253	80608	0.9950	ng/ml			
13C4-PFHpA	5.781	168035	16033.23		13C2-PFHxA	5.110	152654	1.9914	ng/ml			
13C4-PFBA	2.631	223999	48677.80		13C3-PFBA	2.634	124379	8.2440	ng/ml	✔	3	AMS 05/29/24
13C3-PFHxS	6.496	39583	10736.58		18O2-PFHxS	6.495	46538	2.0725	ng/ml			
402.0 -> 99.0			6124.46	51.1								
13C3-PFBS	5.120	56573	7963.23		18O2-PFHxS	6.495	46538	2.0470	ng/ml			
301.9 -> 98.9			6491.64	37.2								
13C3-HFPODA	5.367	155330	34510.20		13C2-PFHxA	5.110	152654	8.3737	ng/ml			
287.0 -> 185.0			8546.24	45.0								
13C2-PFTeDA	8.950	81613	25748.90		13C2-PFDA	7.253	80608	0.9772	ng/ml			
D9-NEtFOSE	10.219	193632	84600.15		13C4-PFOS	7.492	43403	20.5763	ng/ml			
D3-NMeFOSA	10.034	18519	10743.44		13C4-PFOS	7.492	43403	1.9488	ng/ml			
D3-NMeFOSAA	7.266	136995	33719.82		13C4-PFOS	7.492	43403	4.2471	ng/ml			
D5-NEtFOSA	10.354	19588	6800.86		13C4-PFOS	7.492	43403	2.0248	ng/ml			
D5-NEtFOSAA	7.453	64174	13969.49		13C4-PFOS	7.492	43403	3.9740	ng/ml			
D7-NMeFOSE	9.881	175662	74579.31		13C4-PFOS	7.492	43403	19.9748	ng/ml			

11Cl-PF3OUdS



13C2-4:2FTS - ISTD



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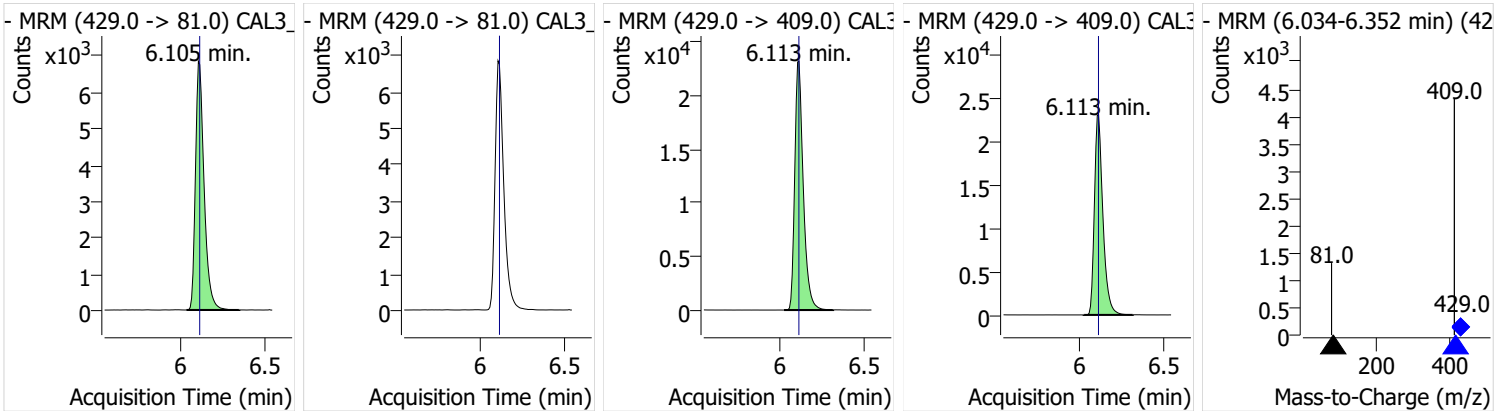
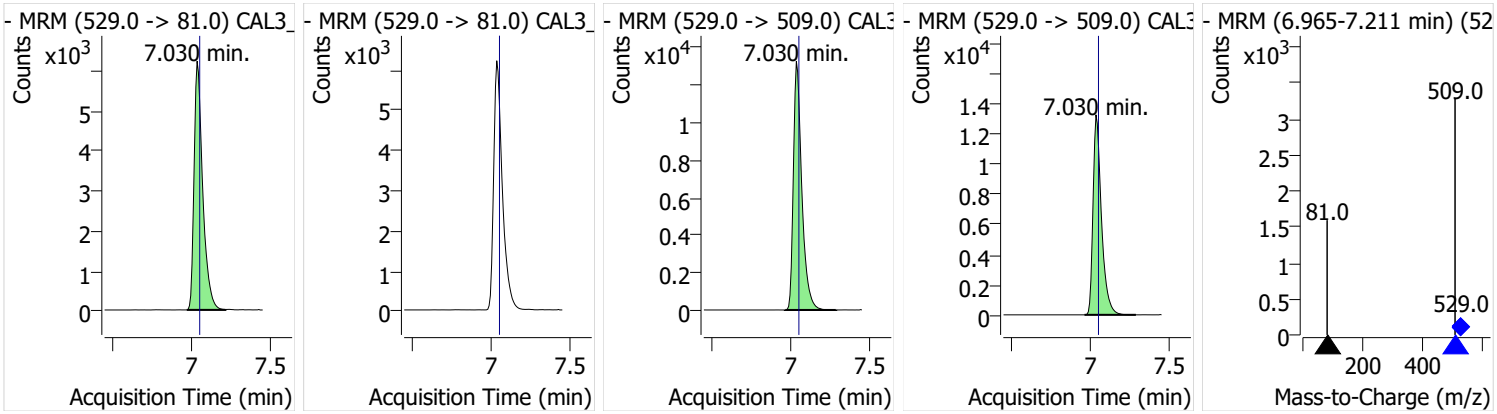
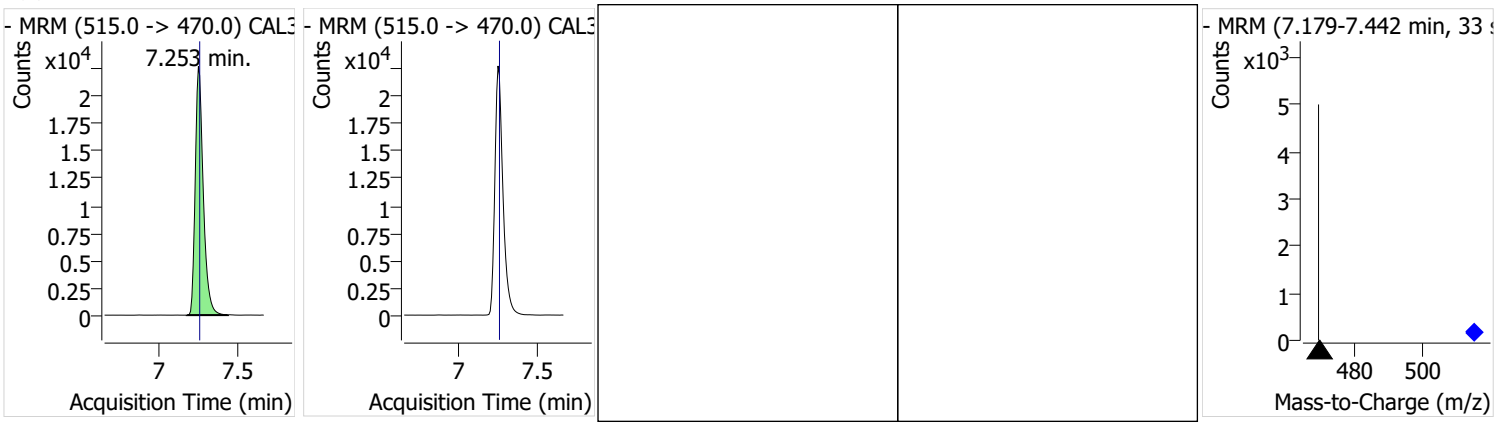


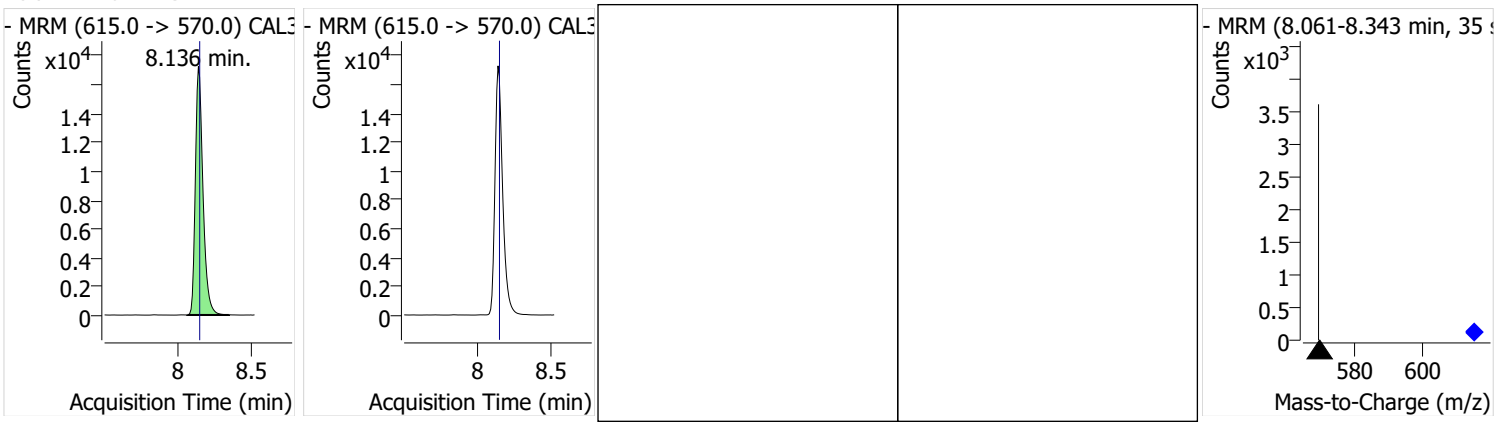
13C2-8:2FTS - ISTD



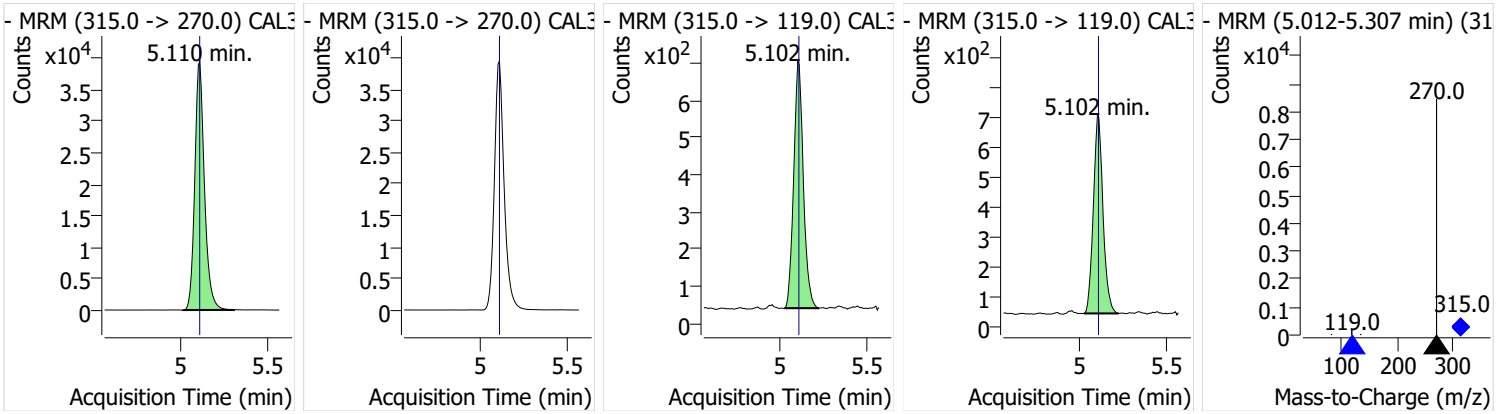
13C2-PFDA



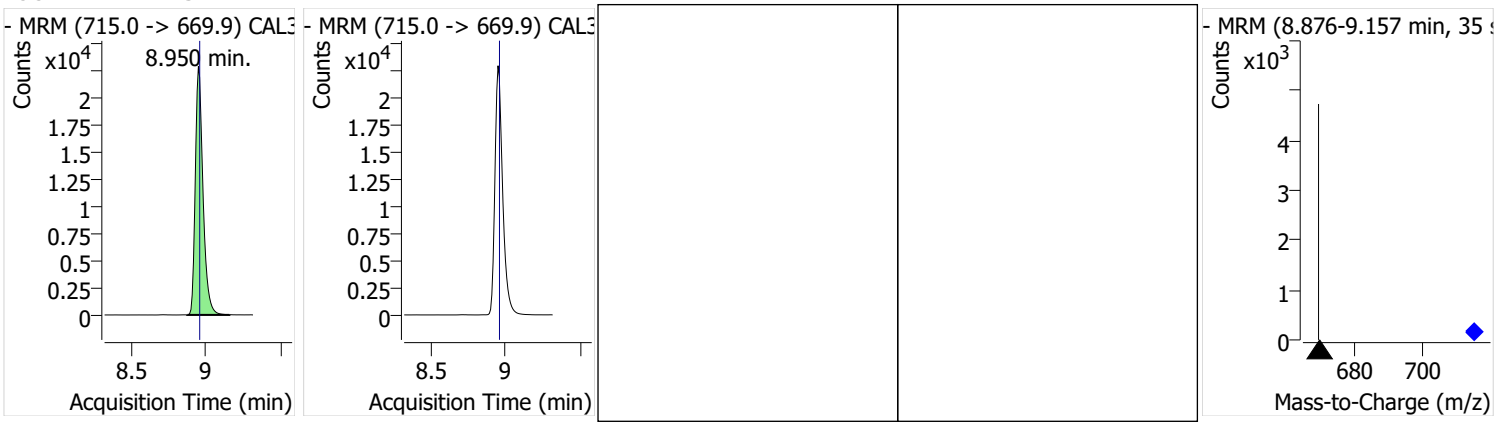
13C2-PFDoA - ISTD



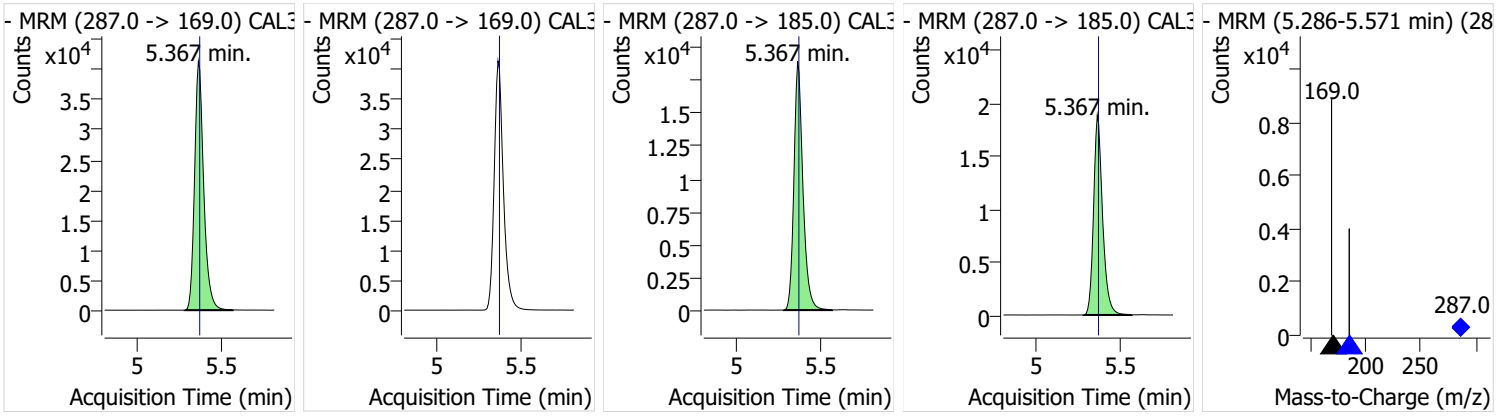
13C2-PFHxA



13C2-PFTeDA - ISTD



13C3-HFPODA - ISTD



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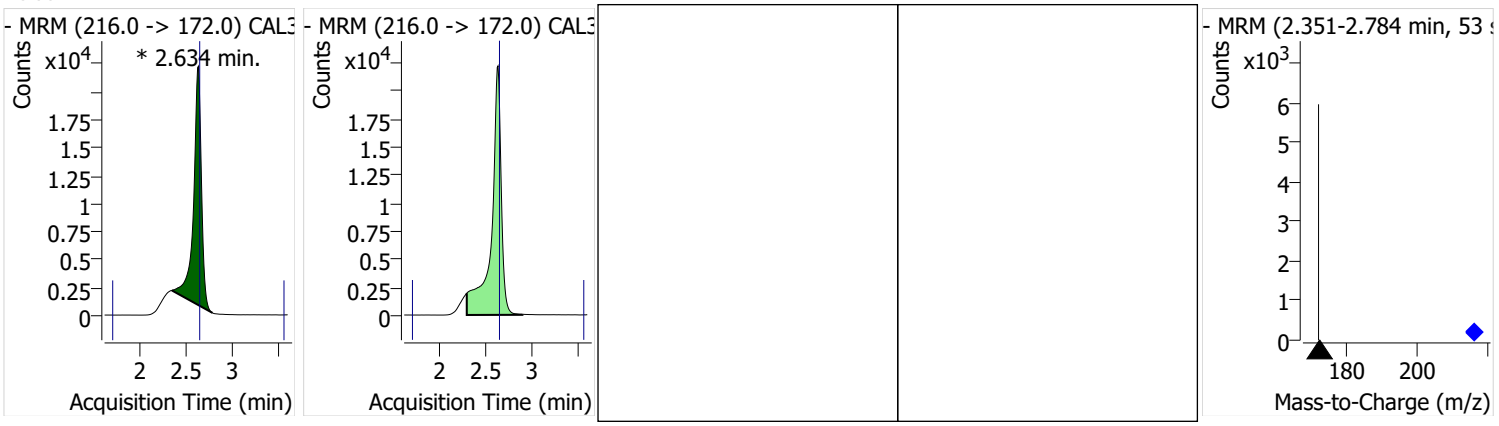
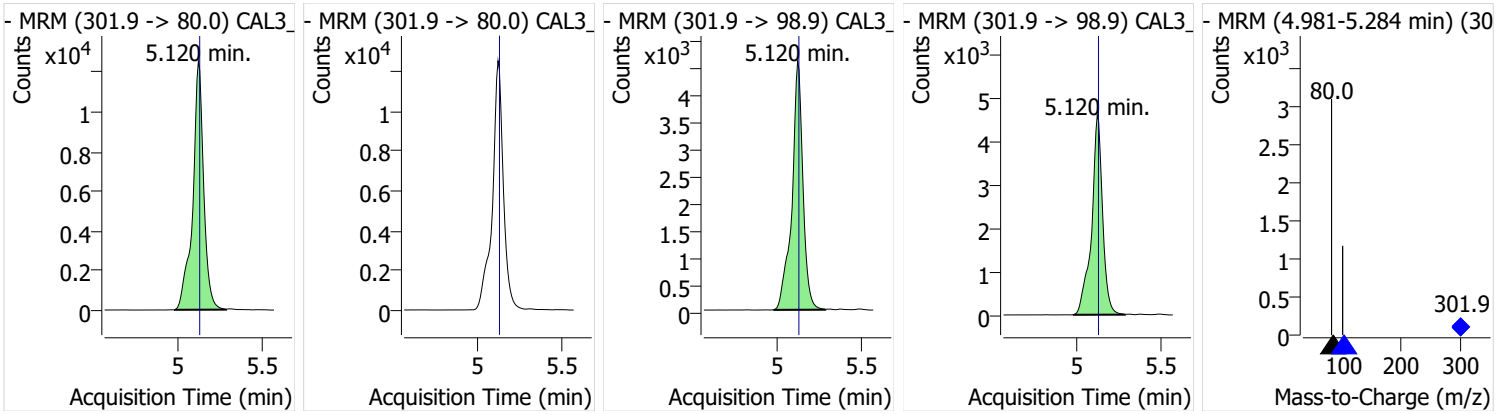
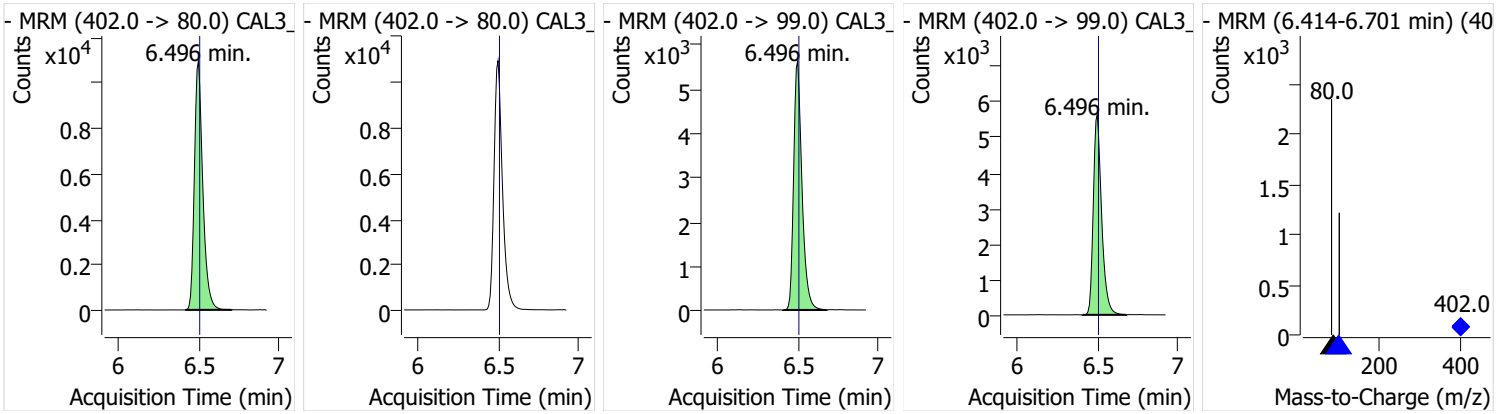


13C3-PFBS - ISTD



13C3-PFHxS - ISTD



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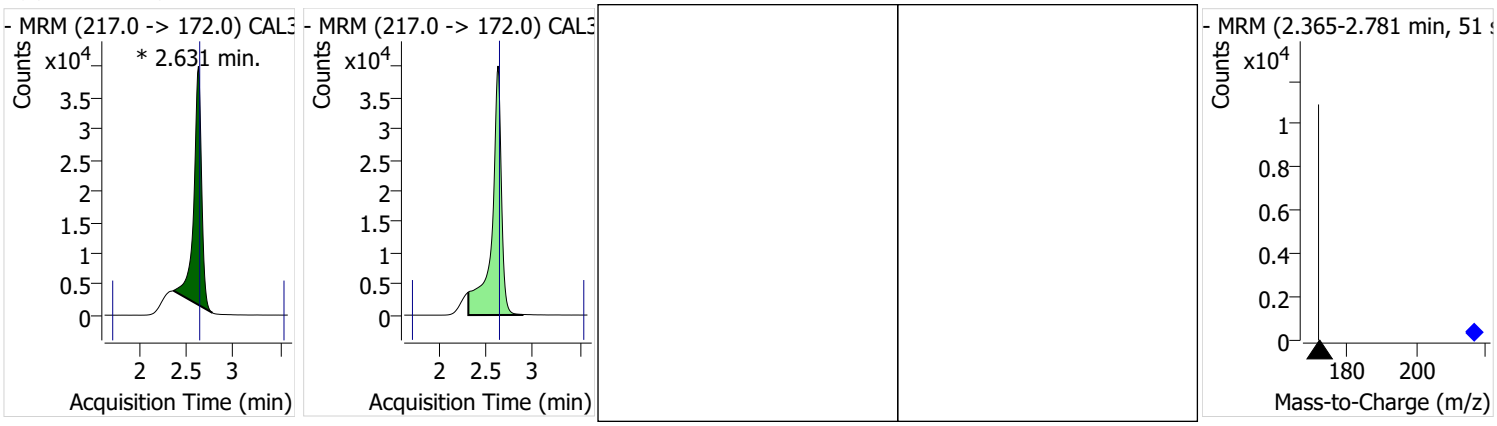

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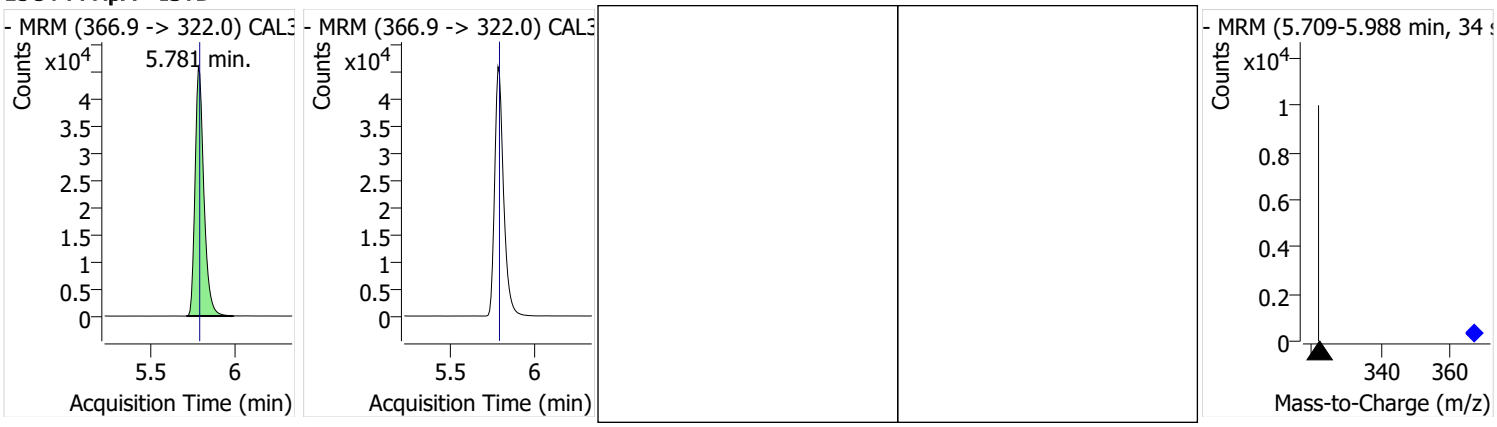

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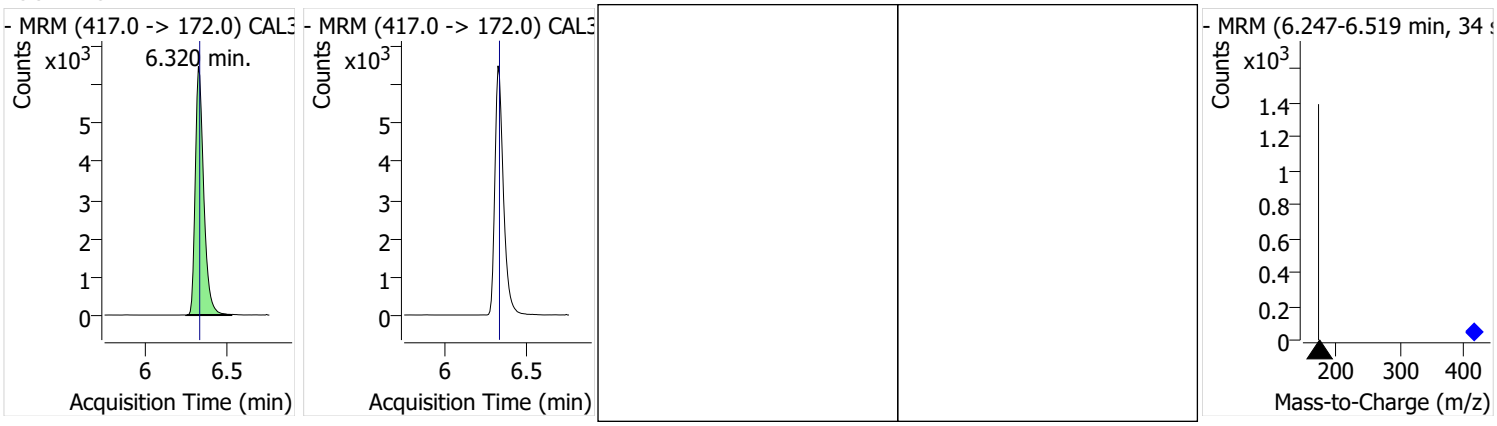

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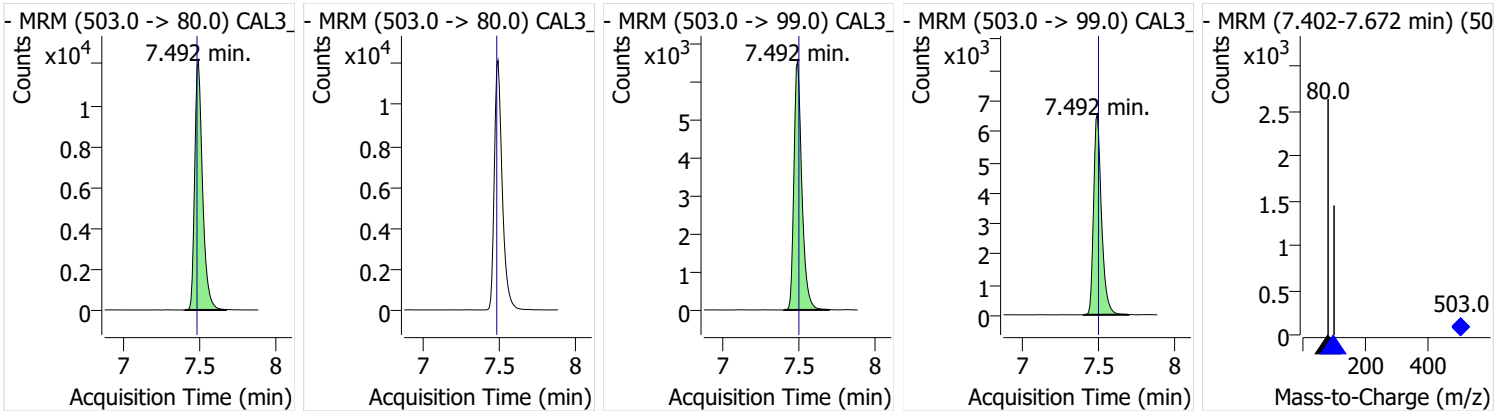
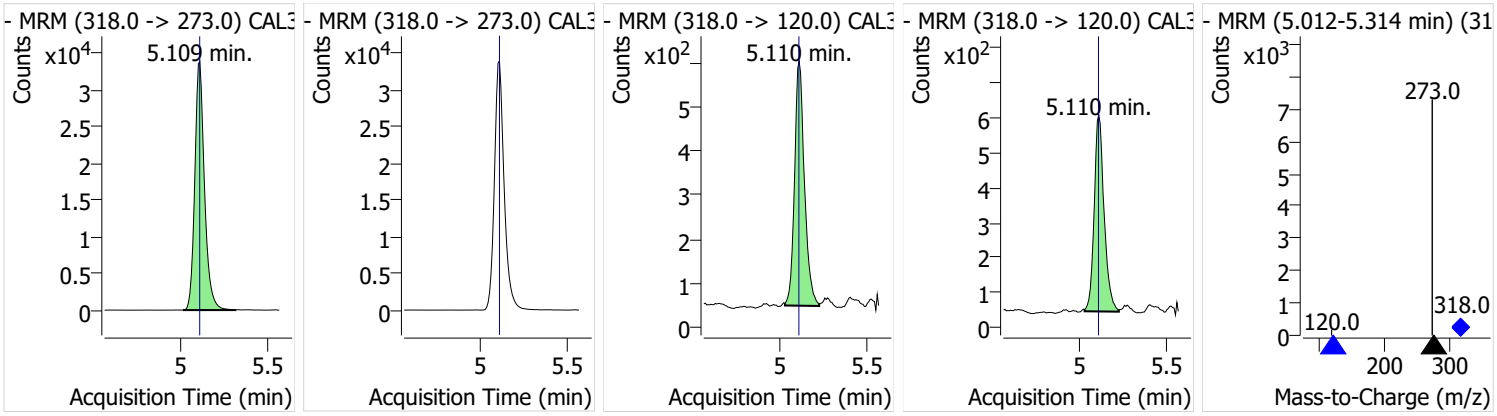


13C5-PFHxA - ISTD



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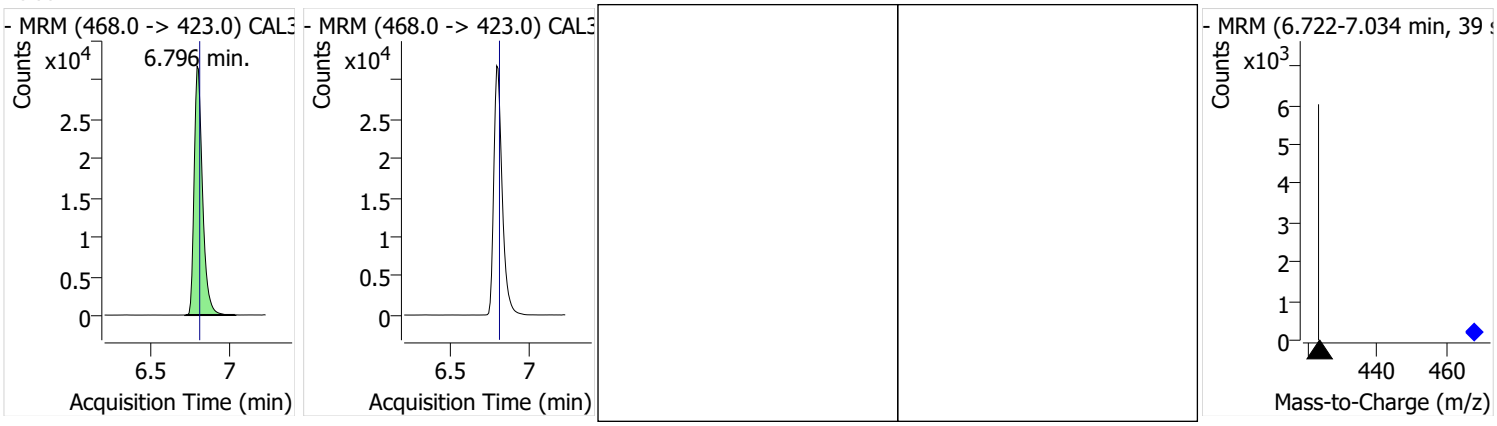
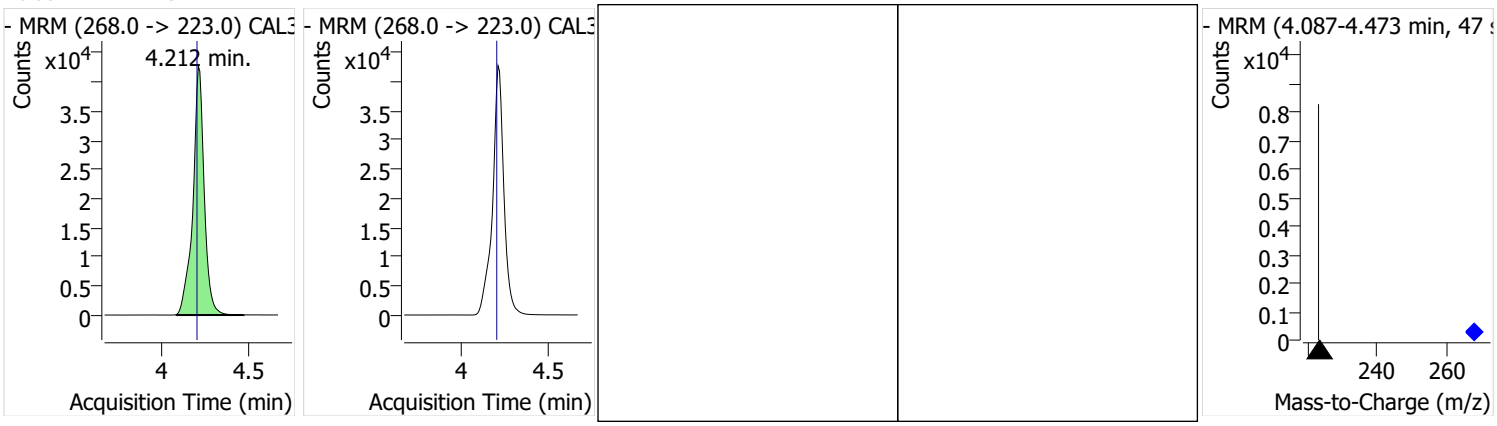
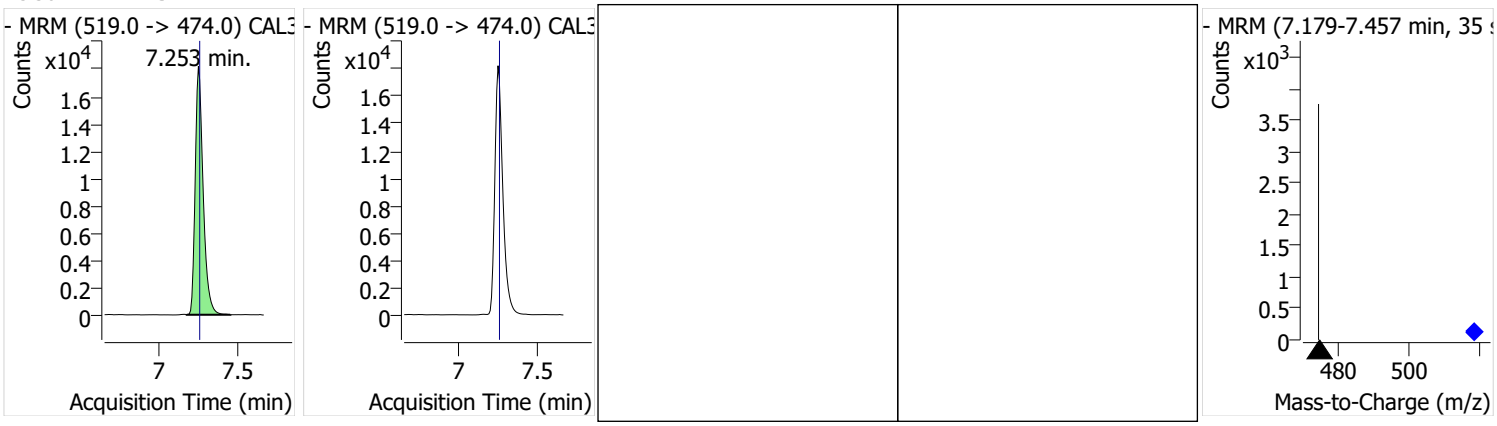


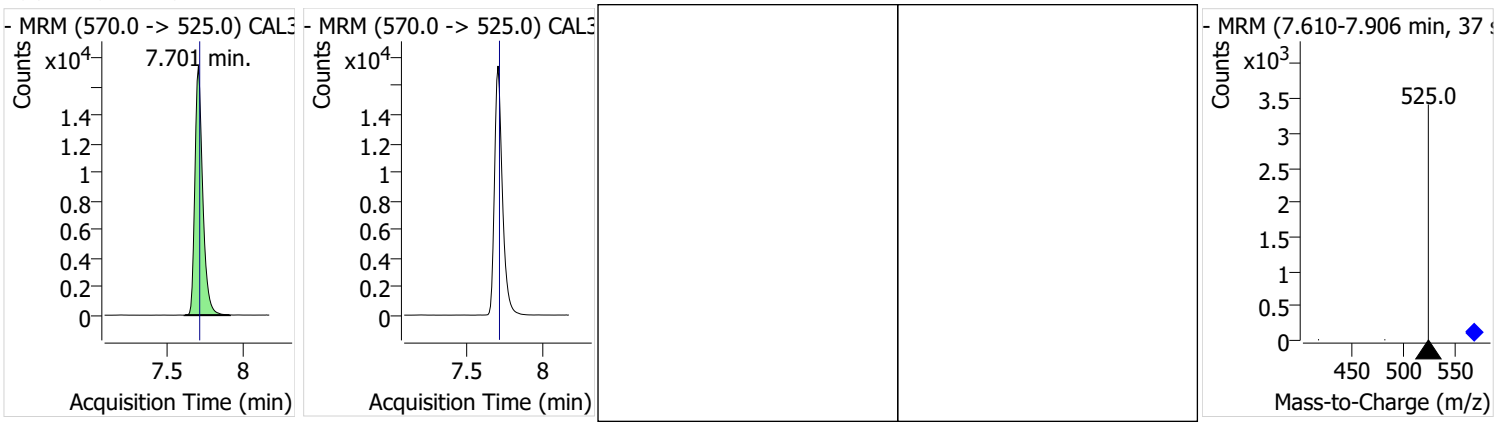
13C5-PFPeA - ISTD



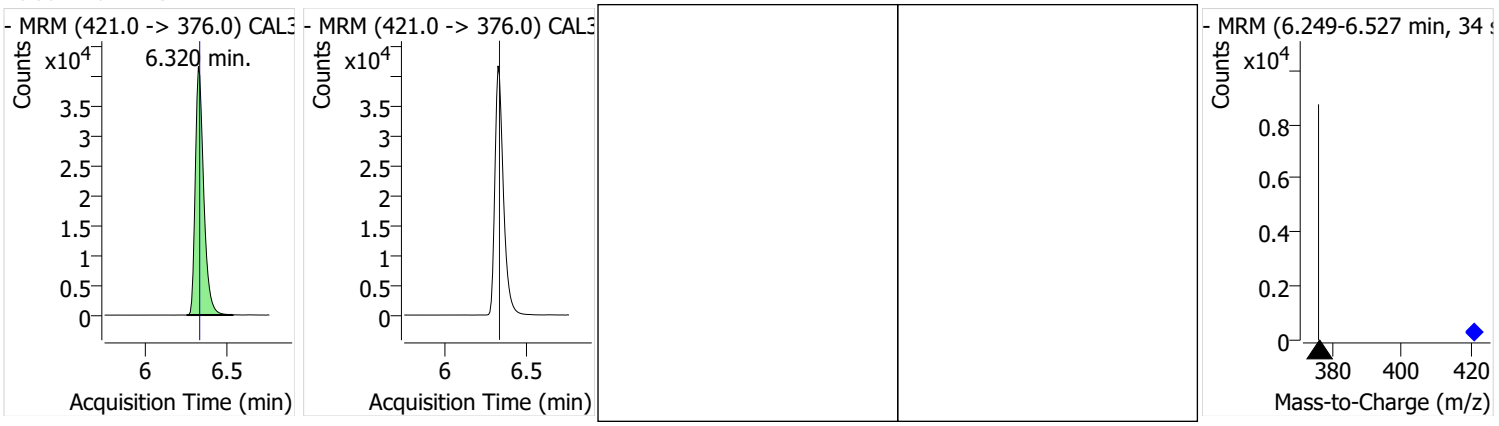
13C6-PFDA - ISTD



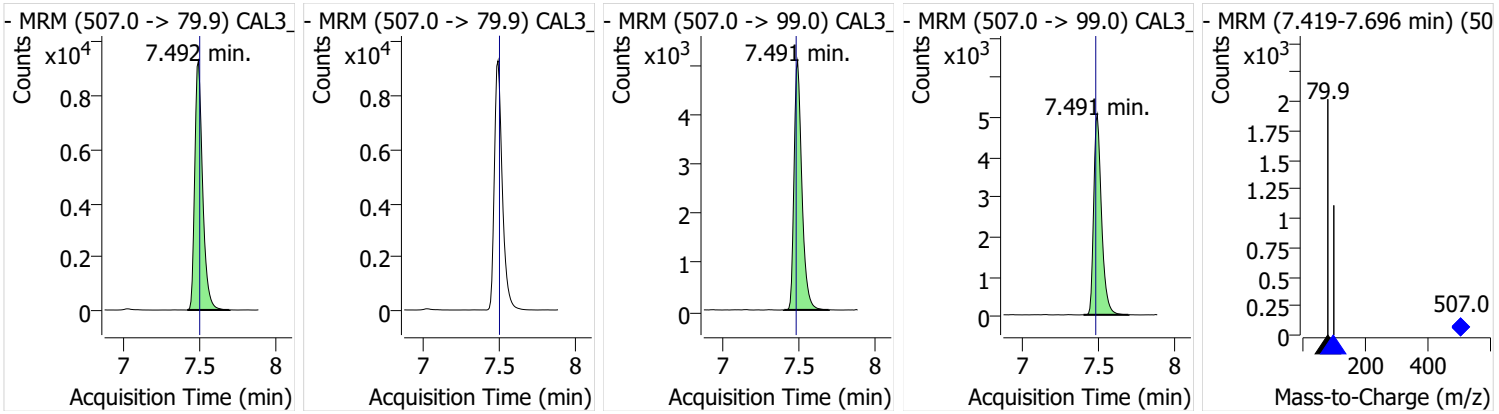
13C7-PFUnA - ISTD



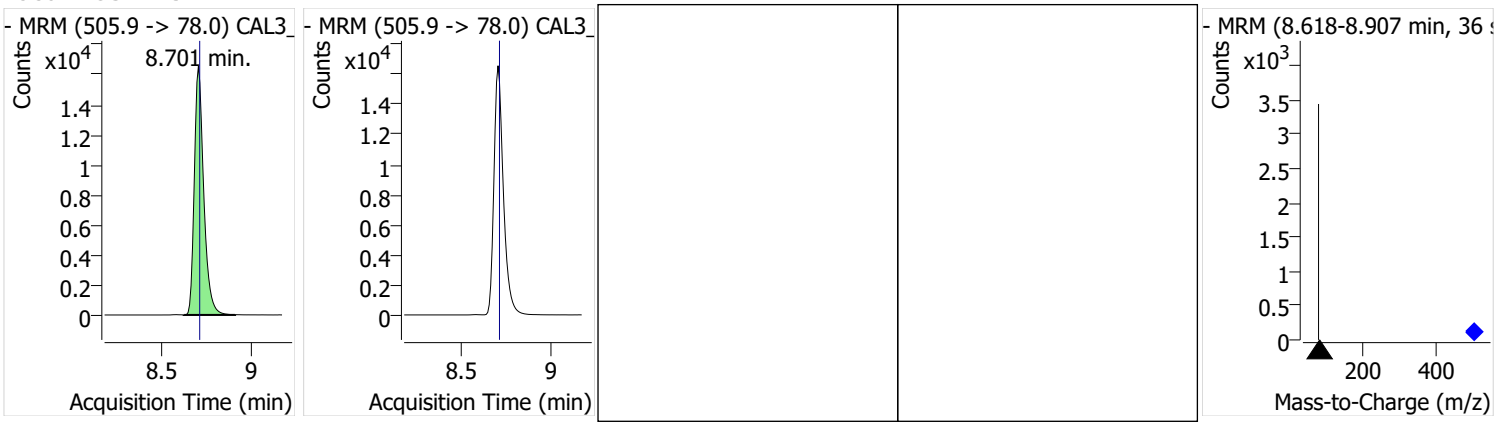
13C8-PFOA - ISTD



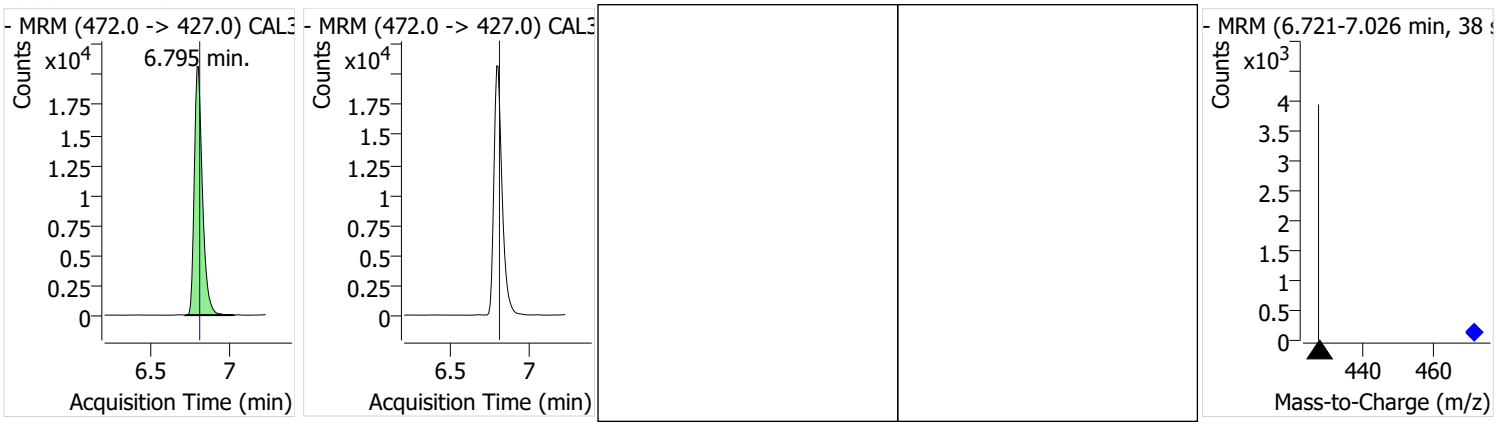
13C8-PFOS - ISTD



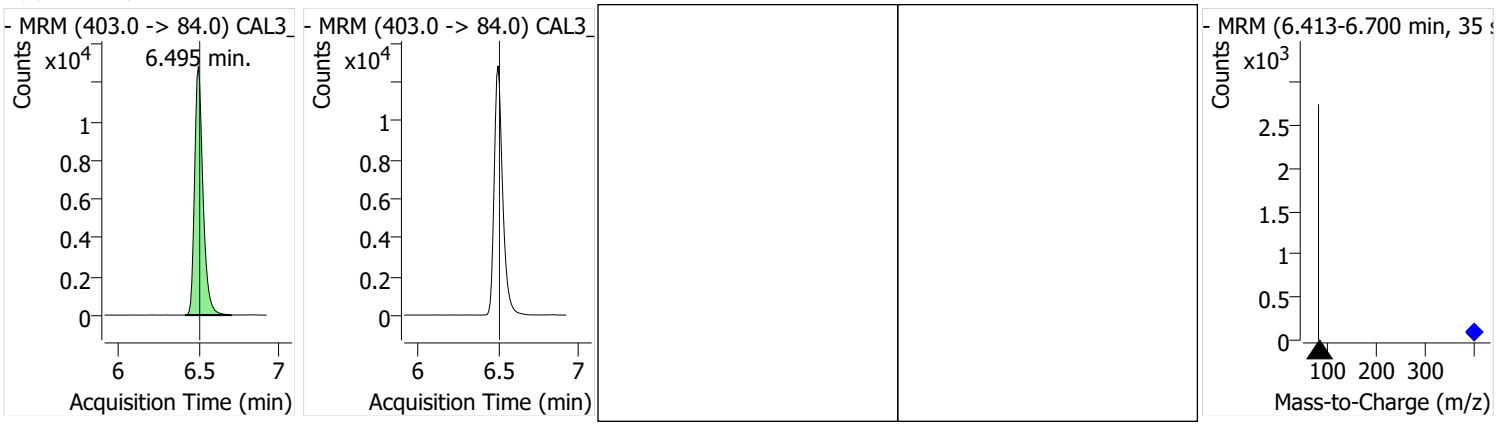
13C8-PFOSA - ISTD



13C9-PFNA - ISTD



18O2-PFHxS



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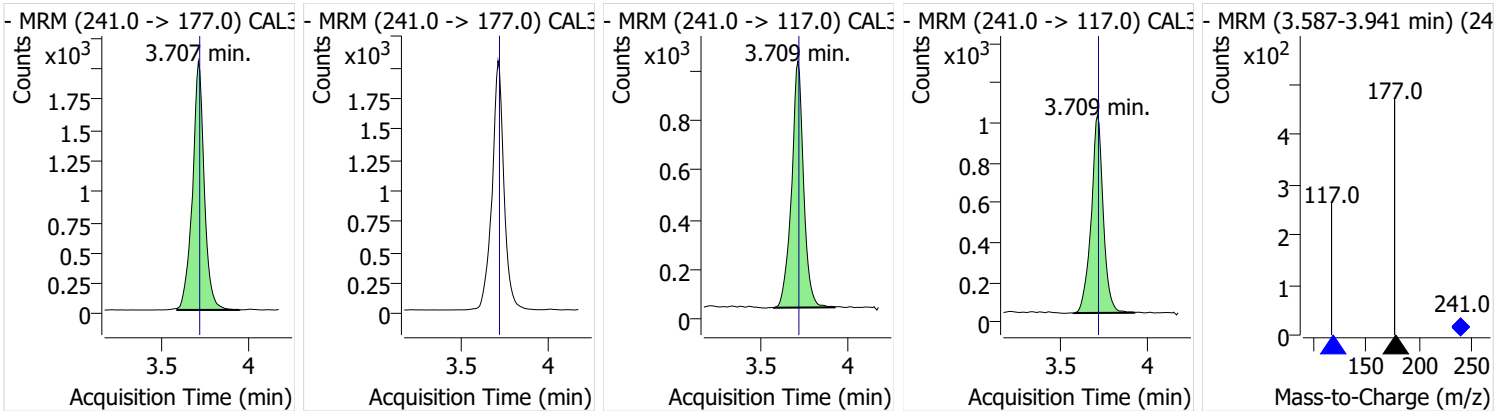

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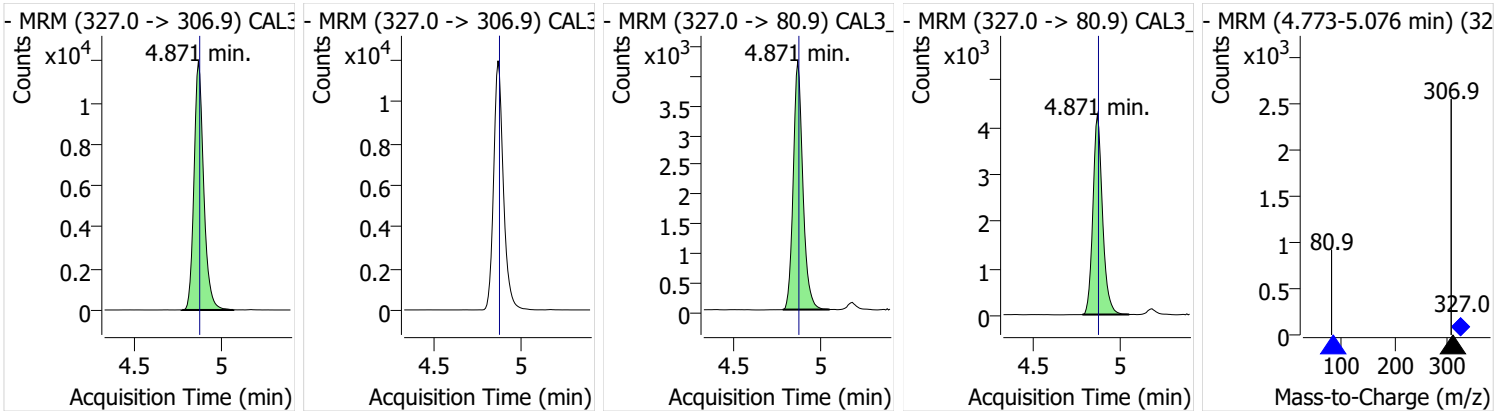

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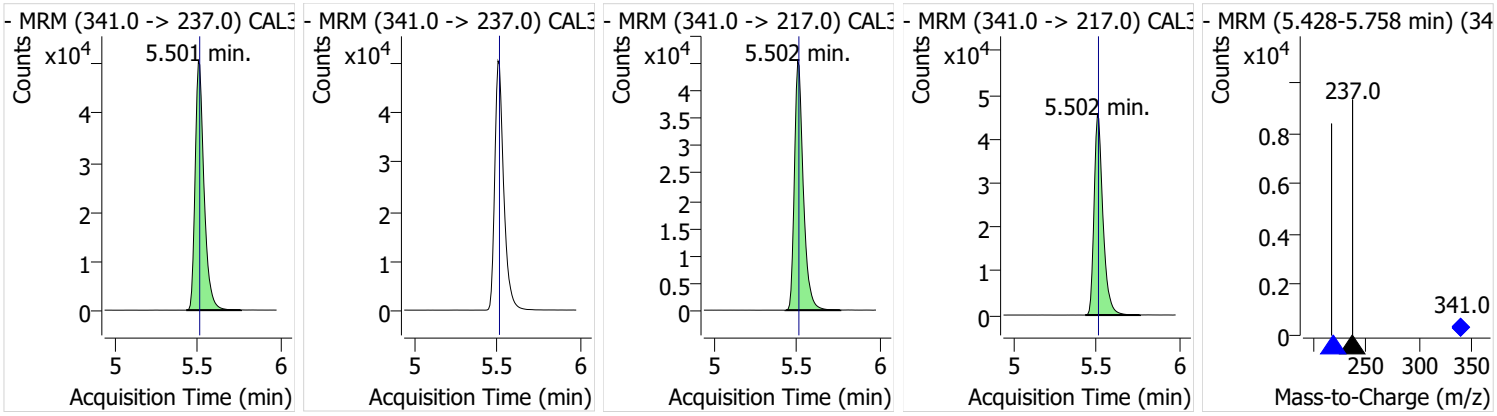

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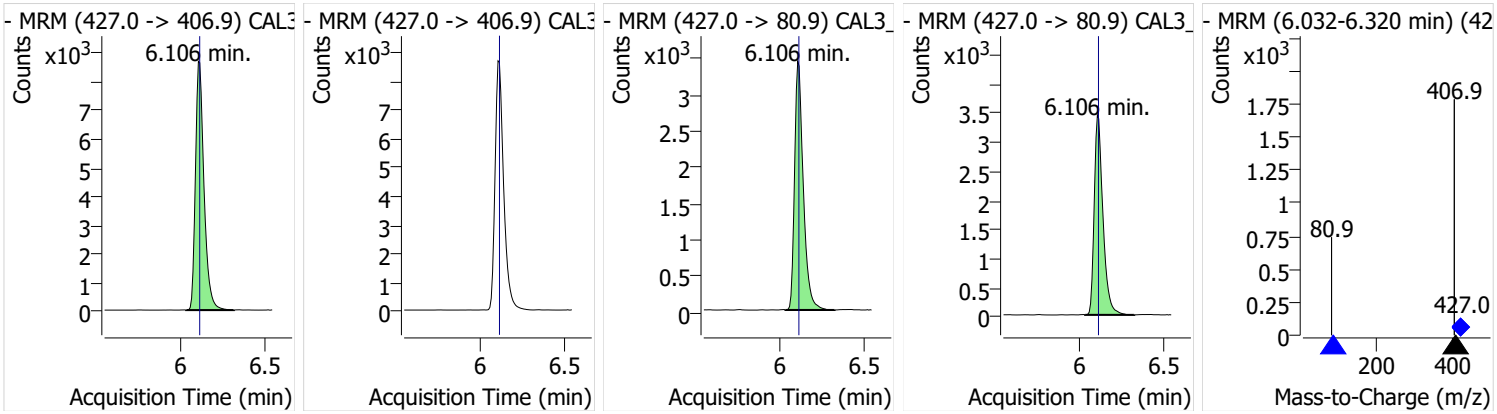

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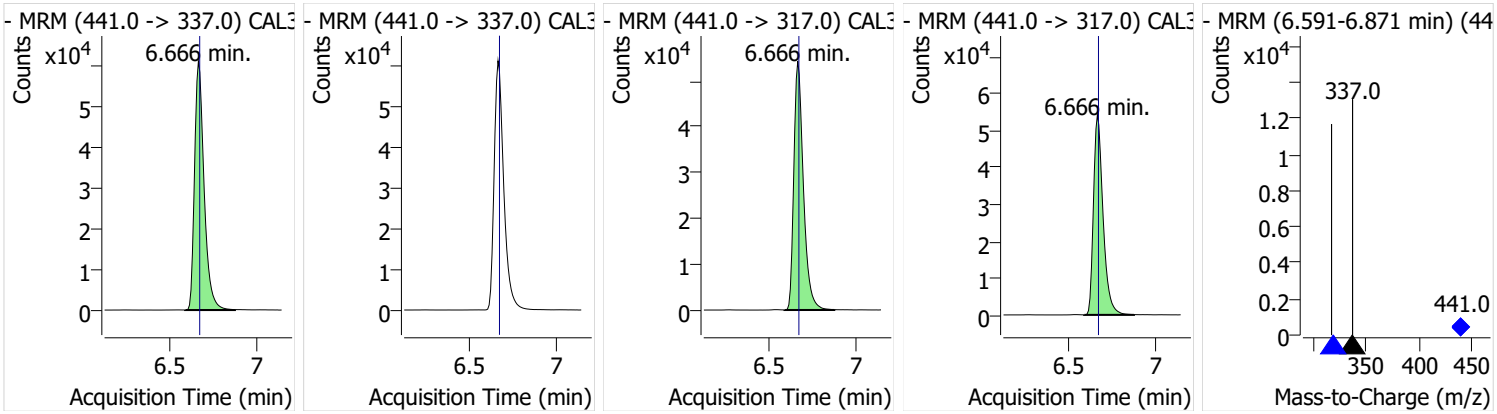
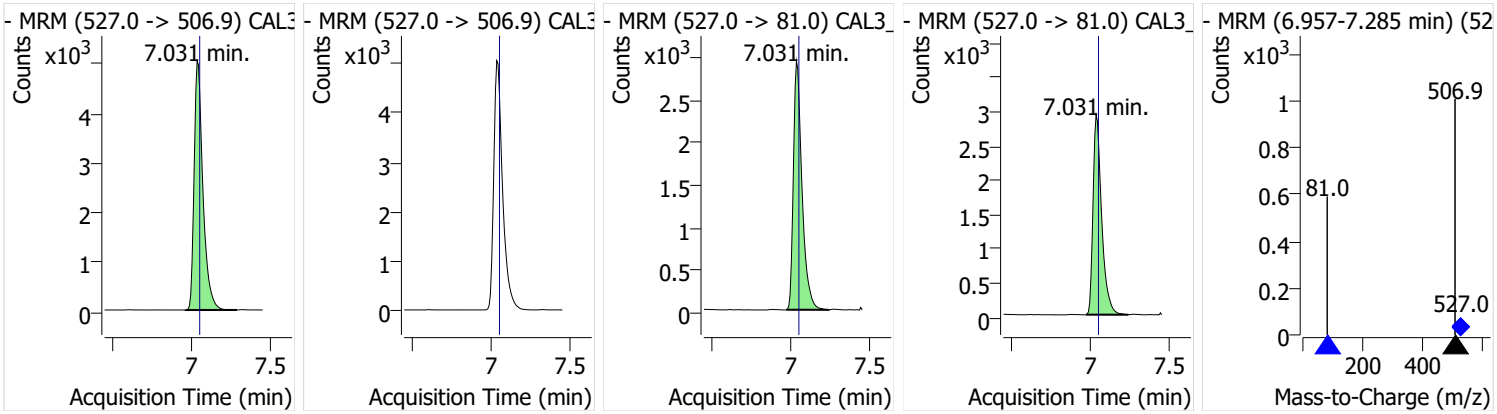


8:2FTS



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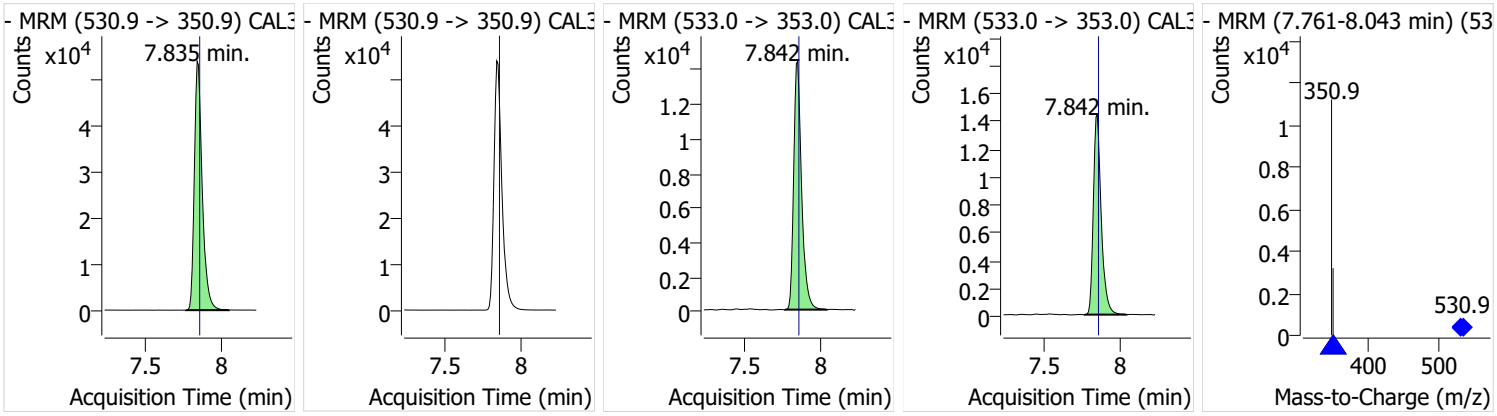

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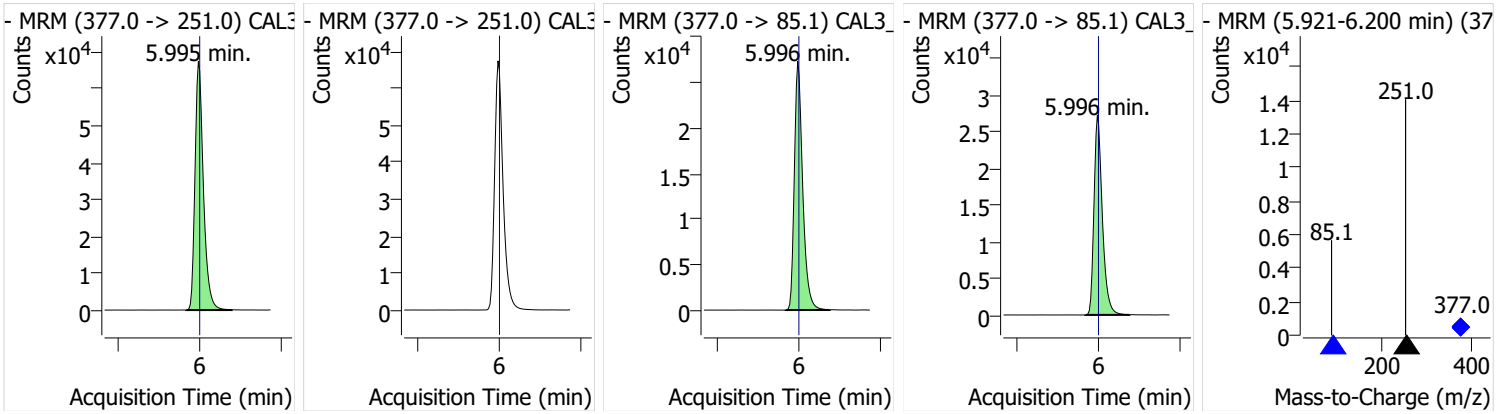
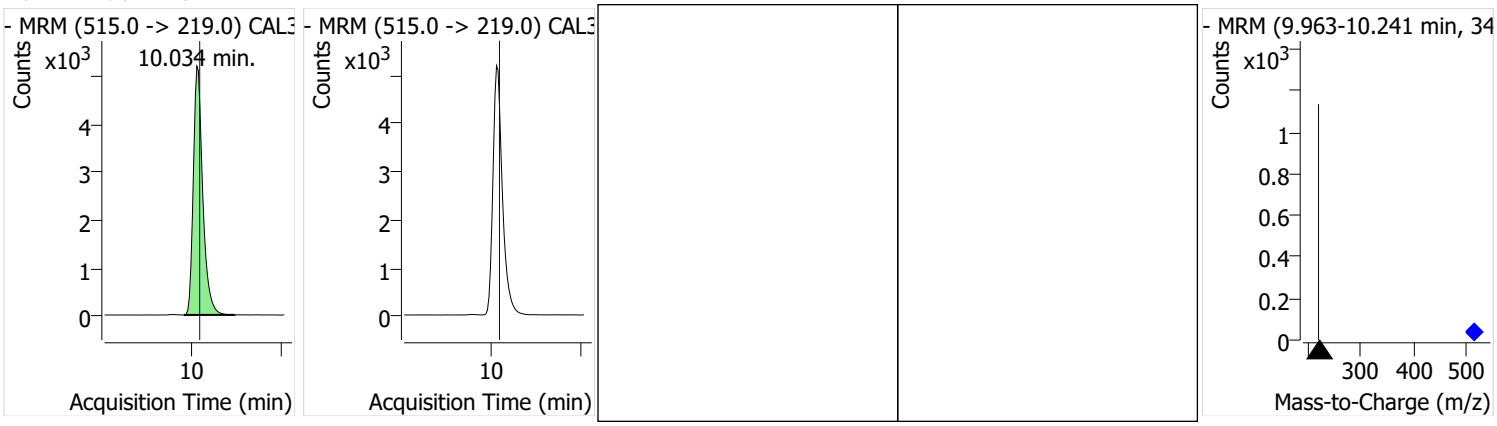
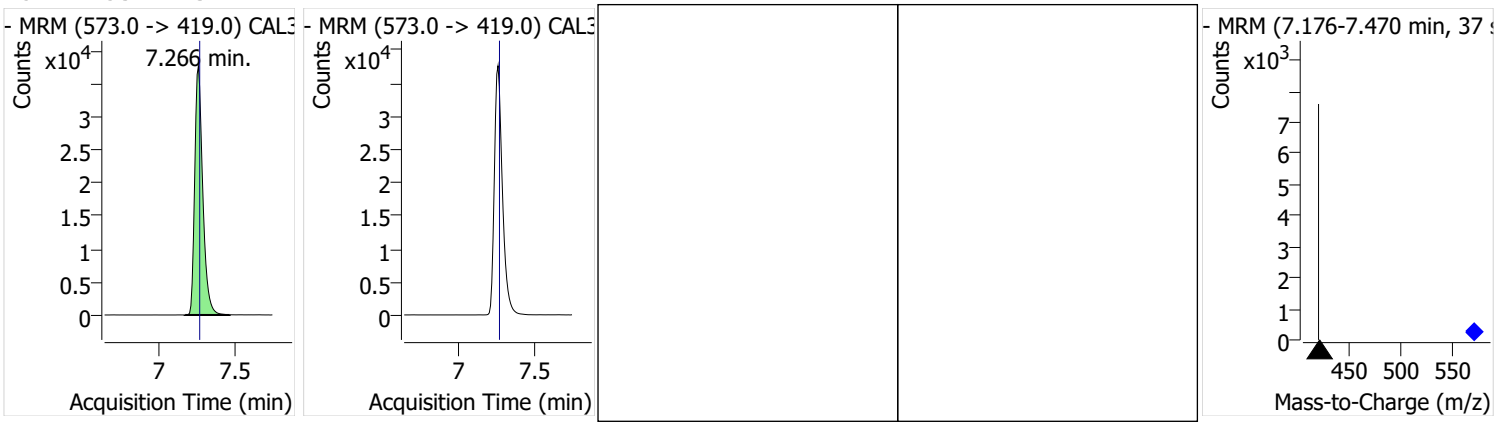


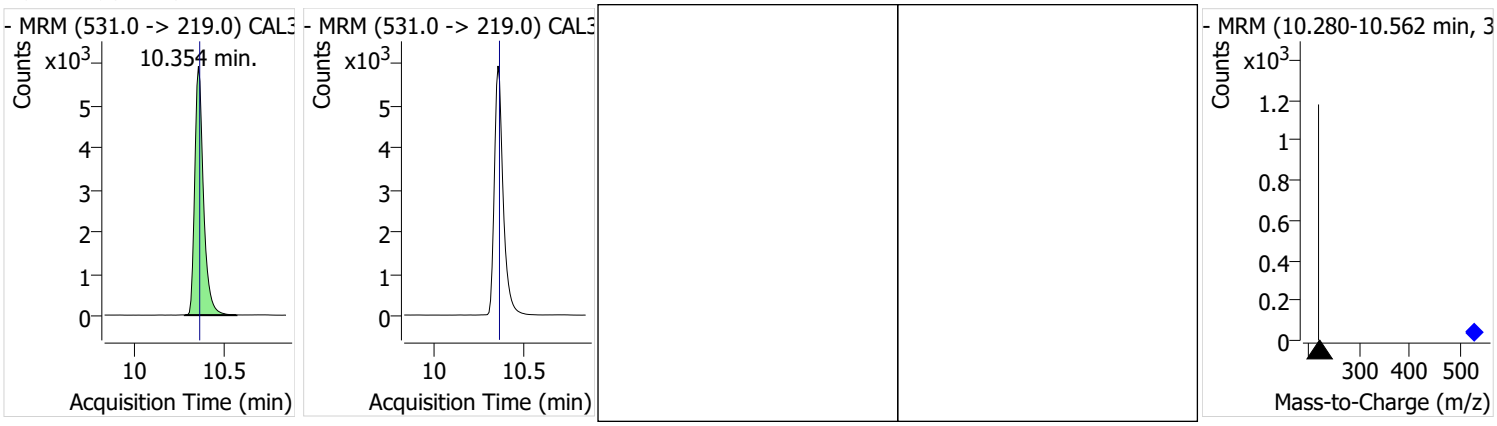
D3-NMeFOSA - ISTD



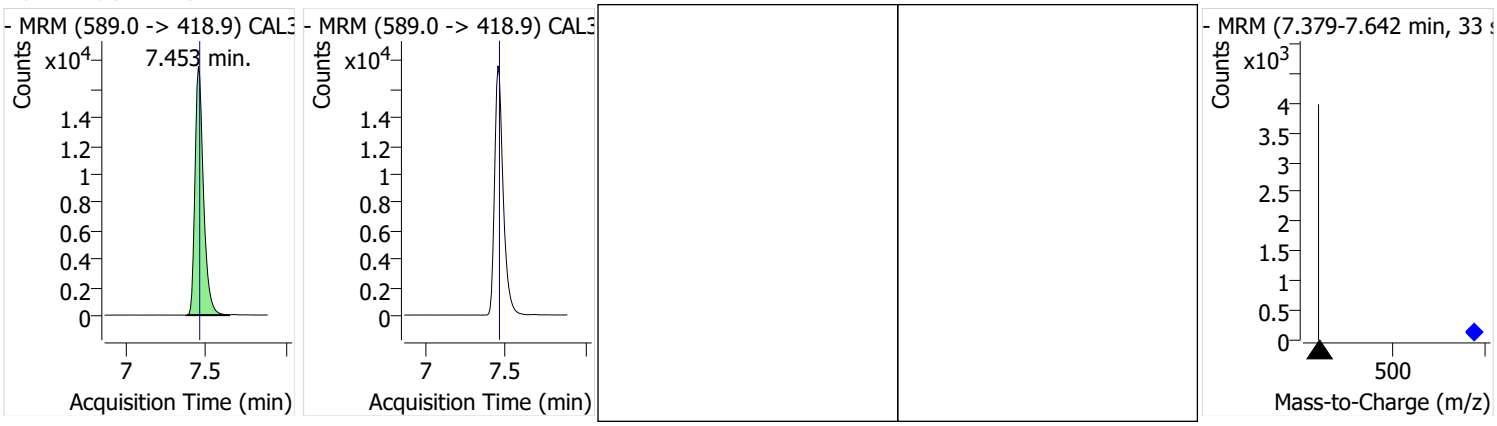
D3-NMeFOSAA - ISTD



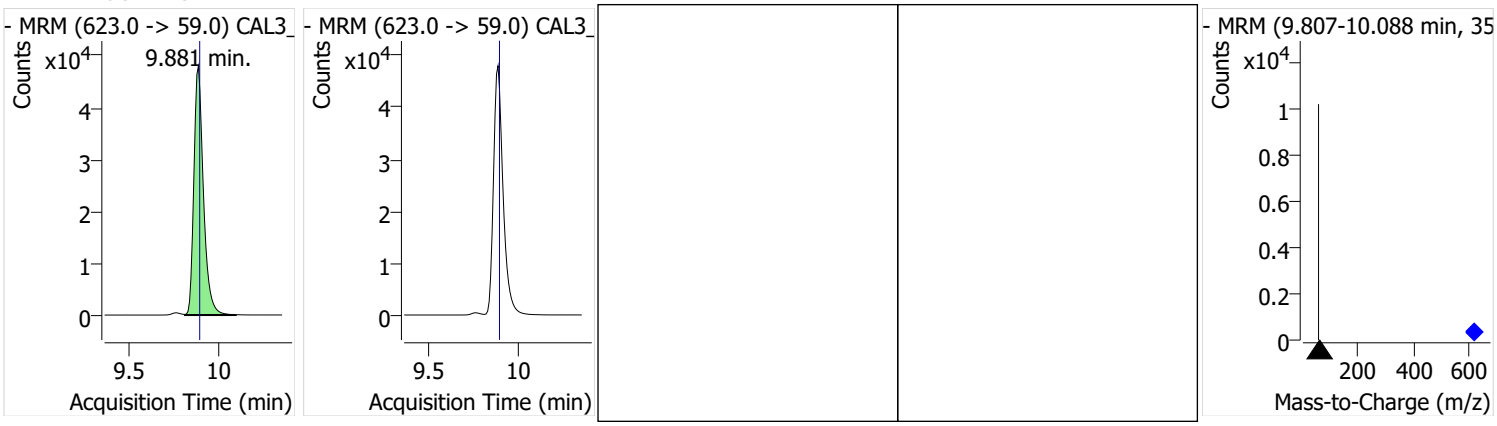
D5-NEtFOSA - ISTD



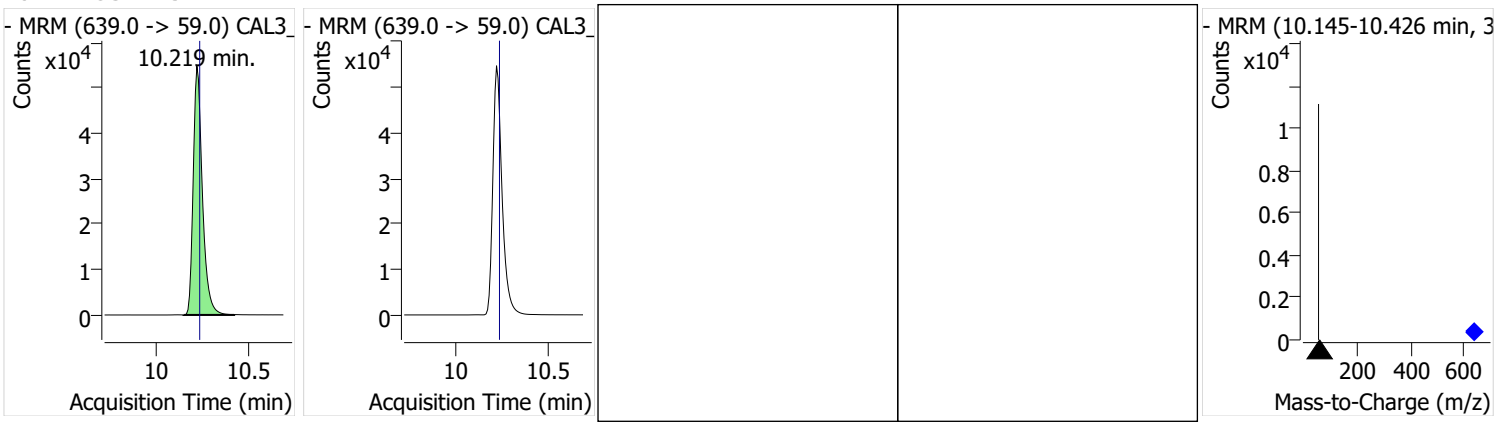
D5-NEtFOSAA - ISTD



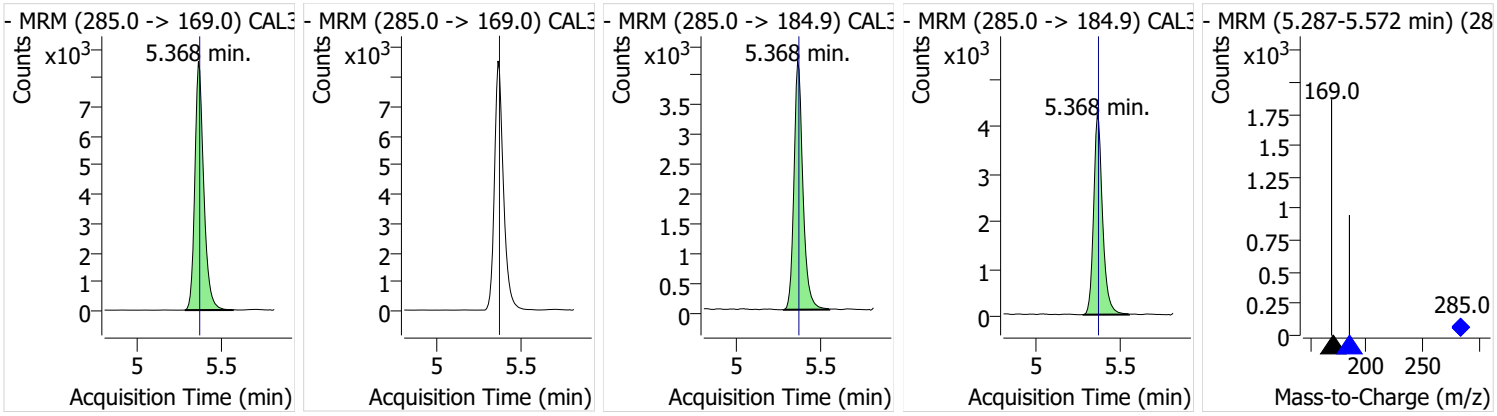
D7-NMeFOSE - ISTD



D9-NEtFOSE - ISTD



HFPO-DA



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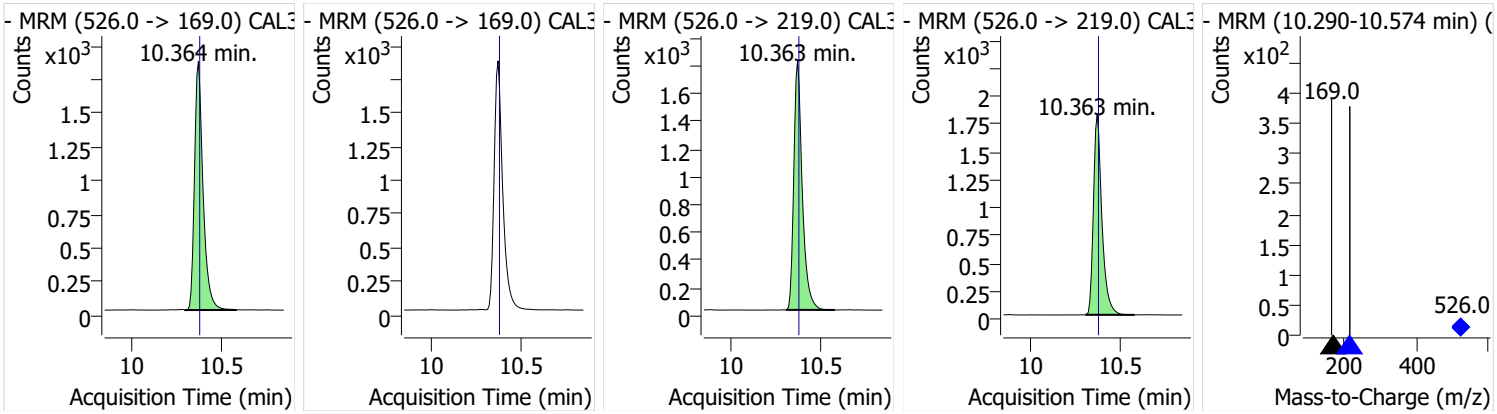

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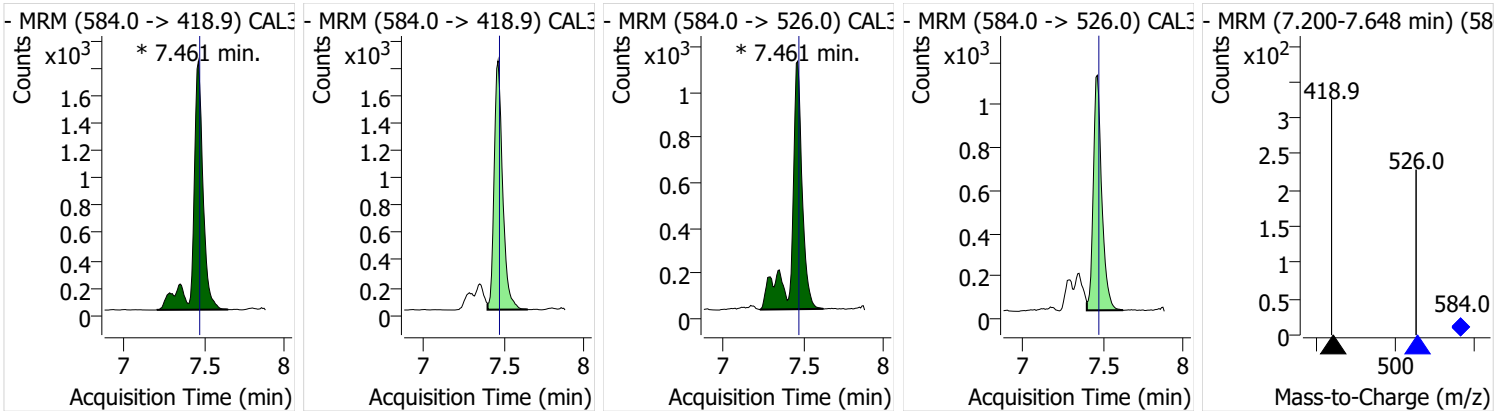

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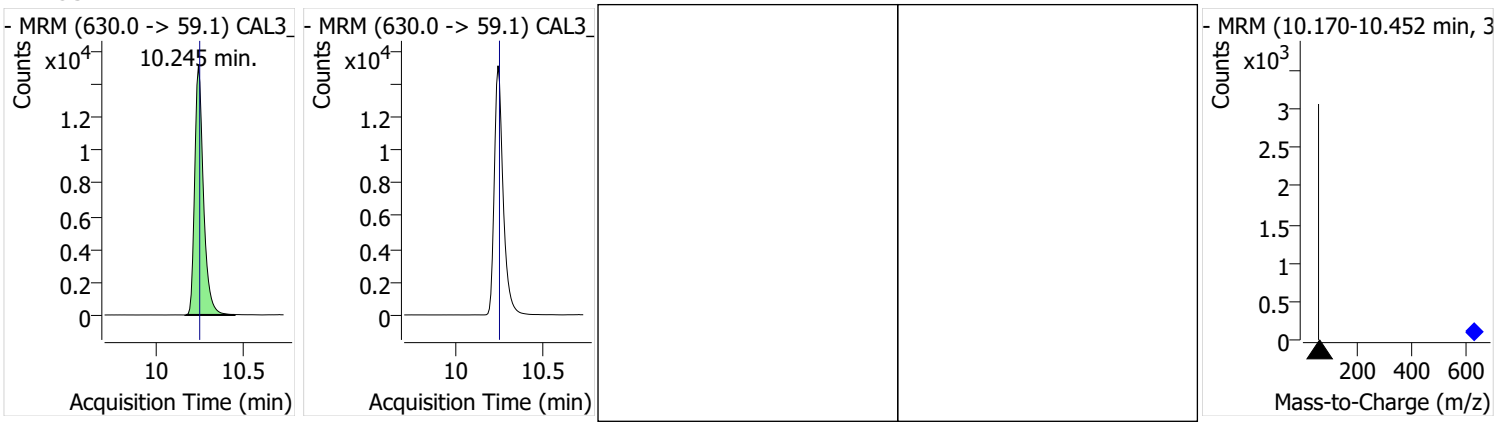

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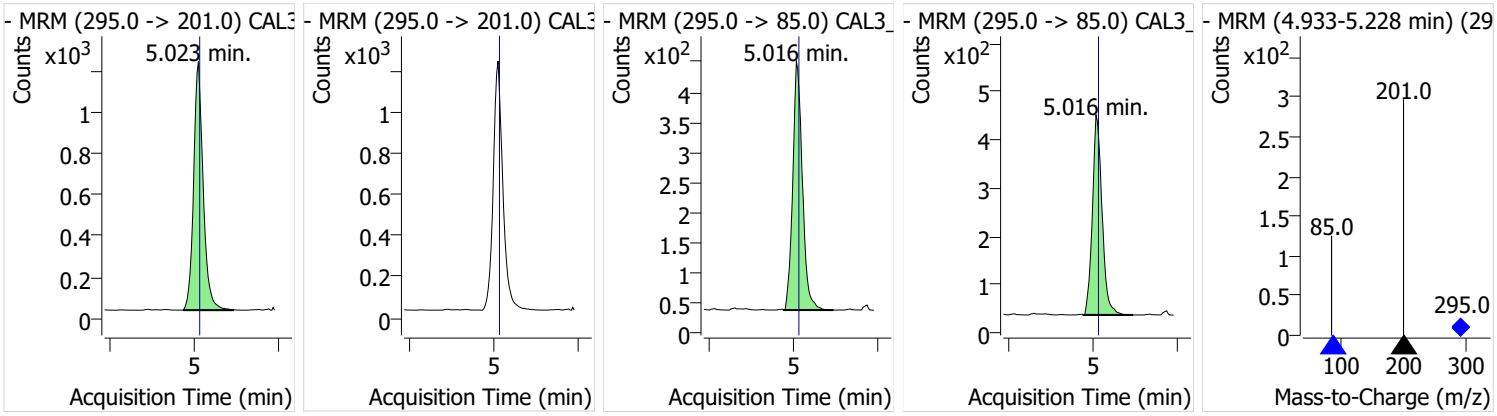

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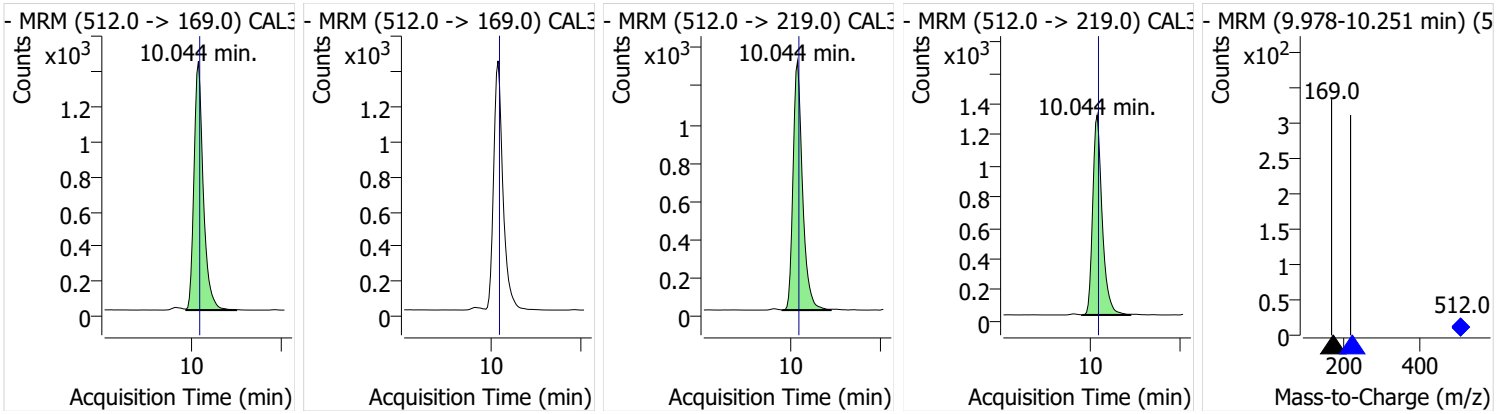

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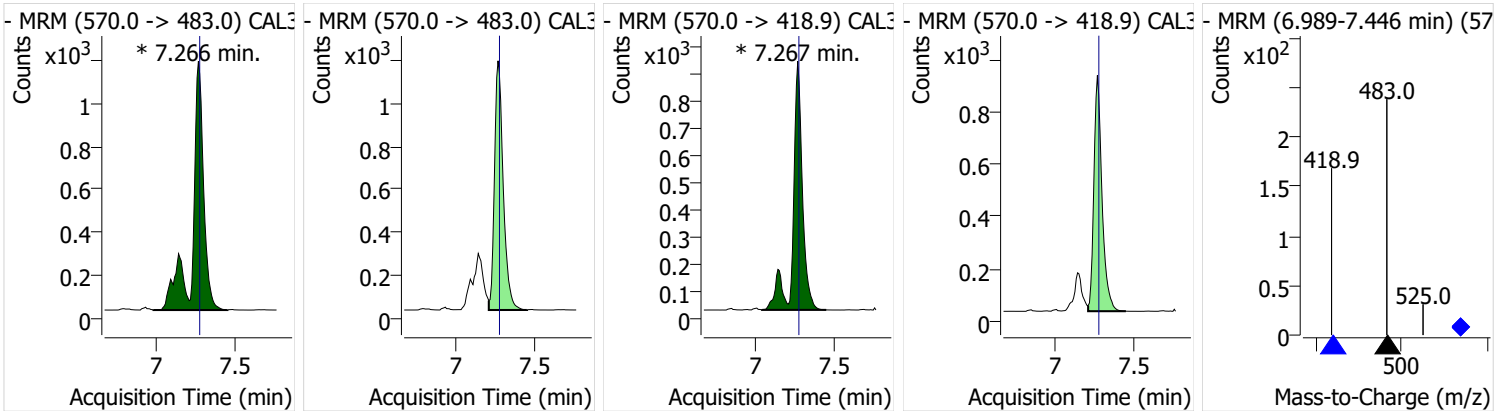

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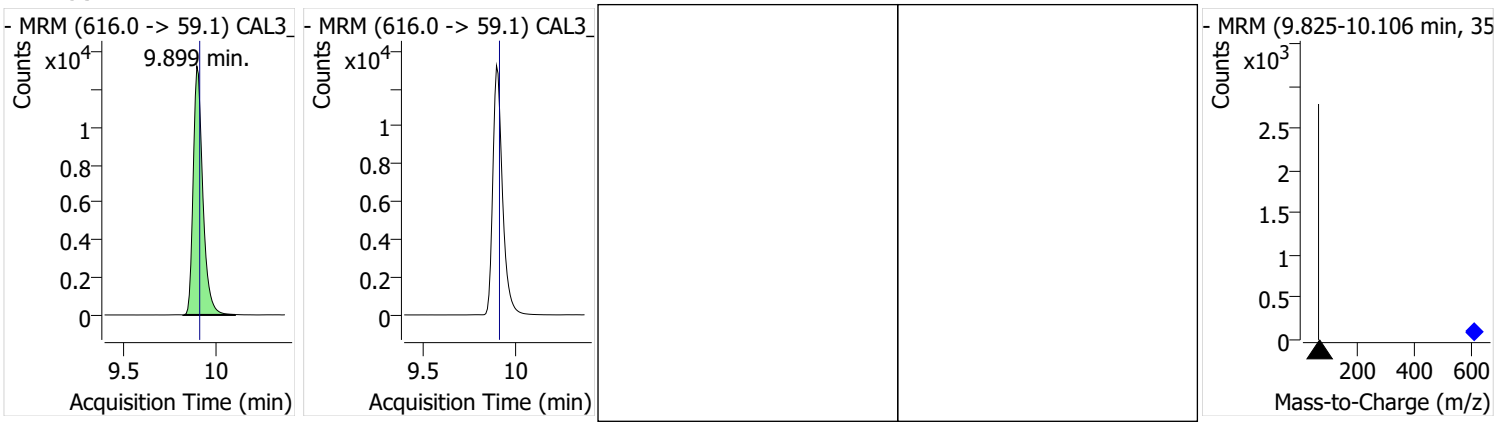
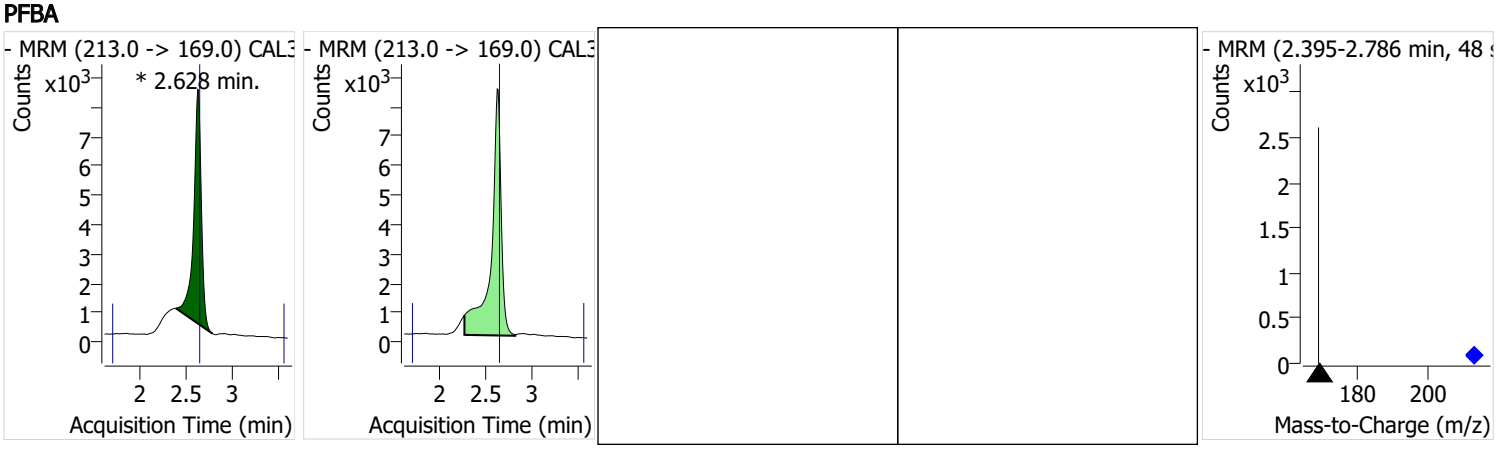


PFBA



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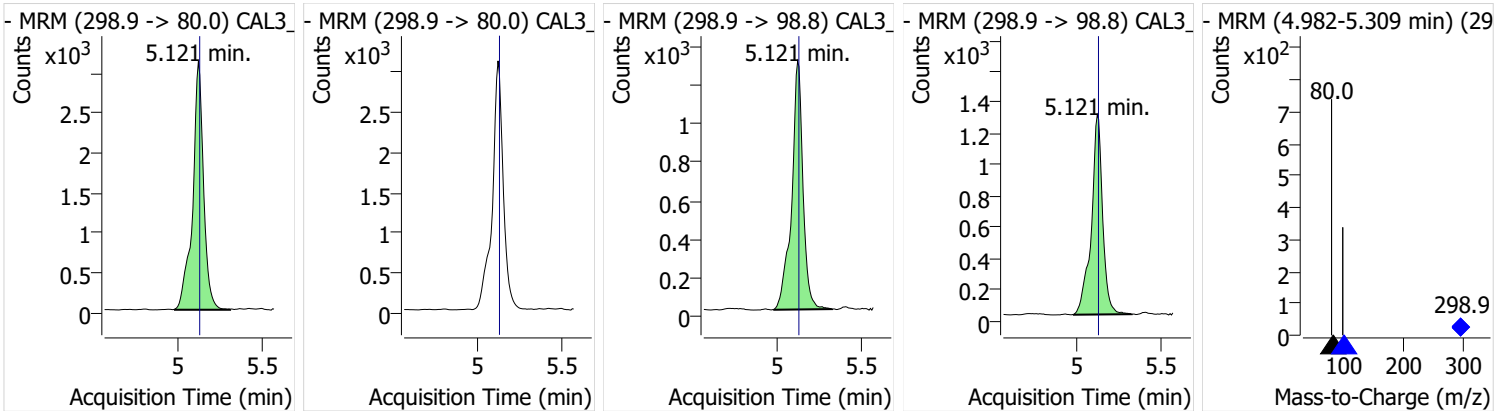

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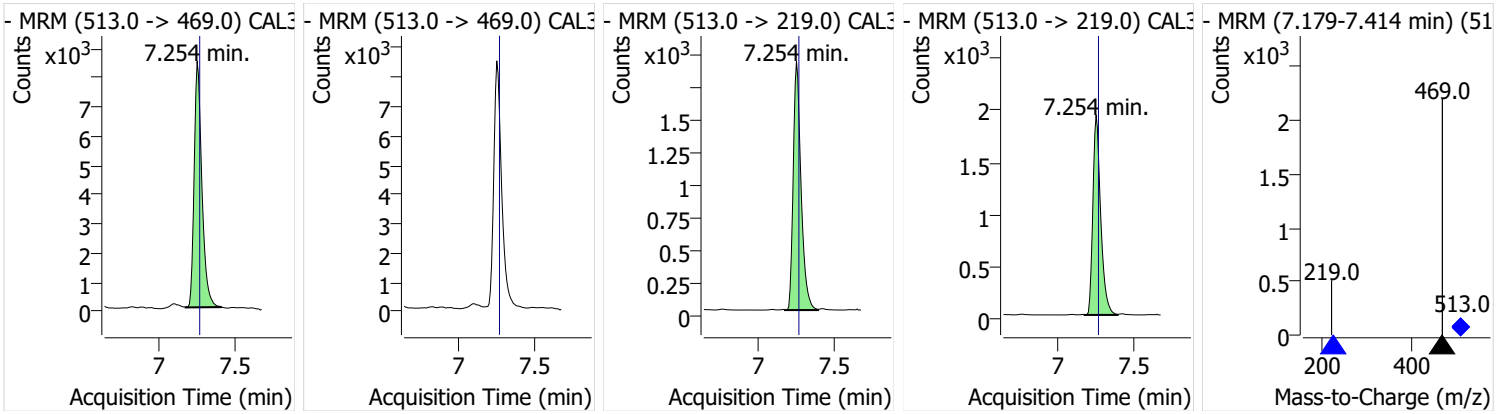

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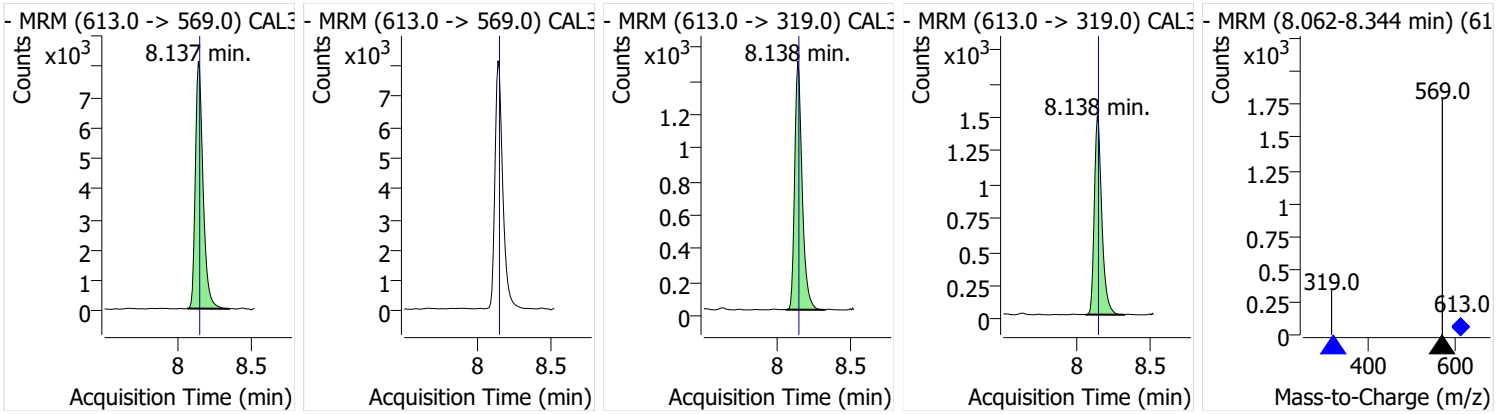

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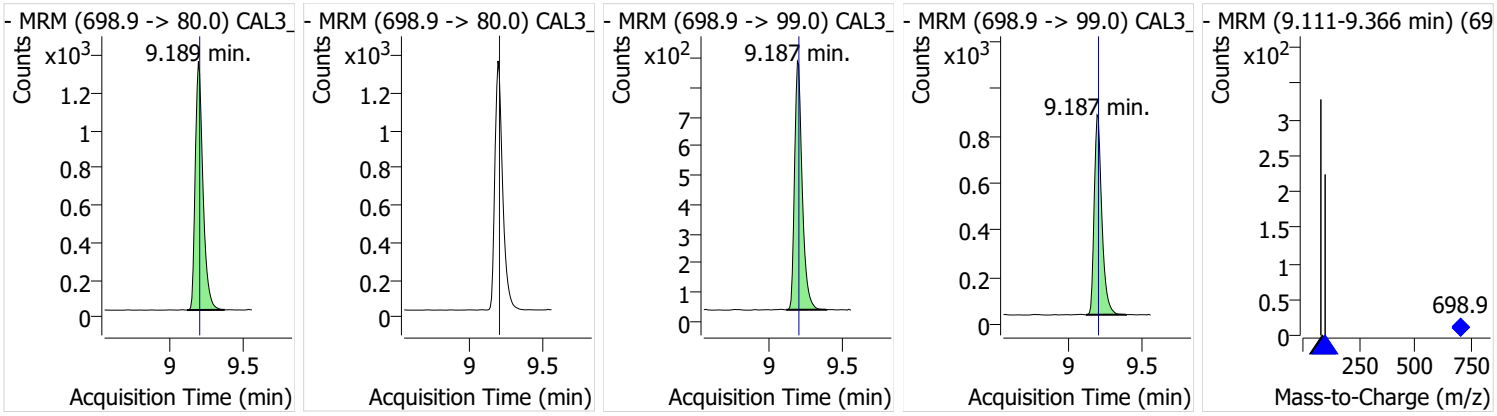
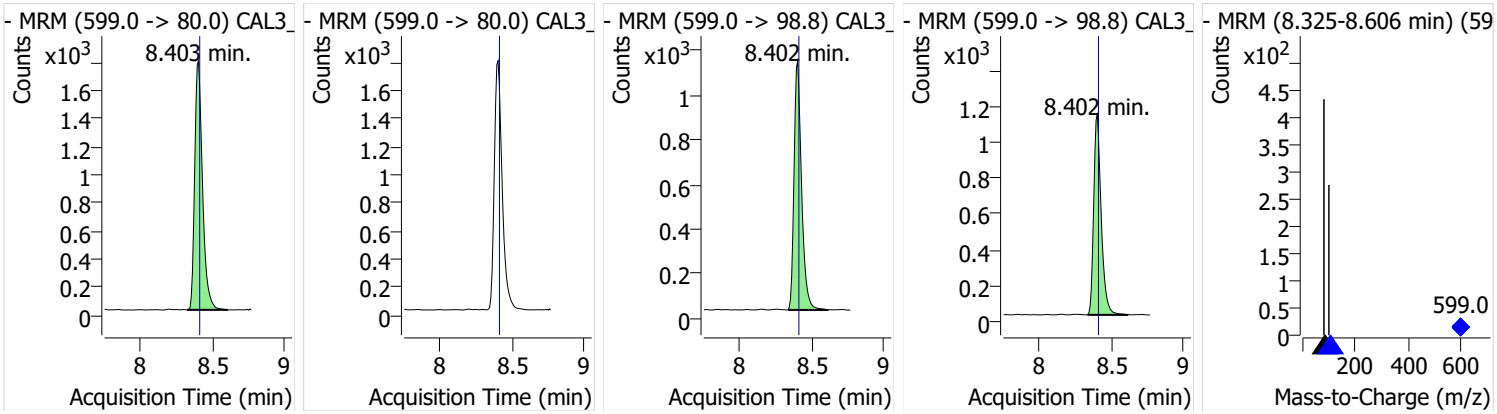


PFDS



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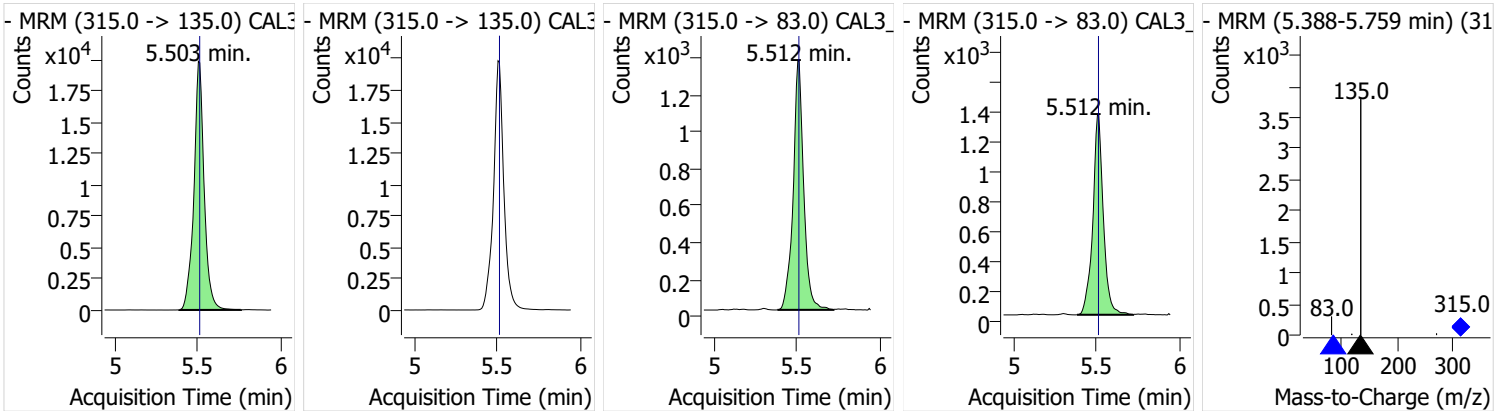

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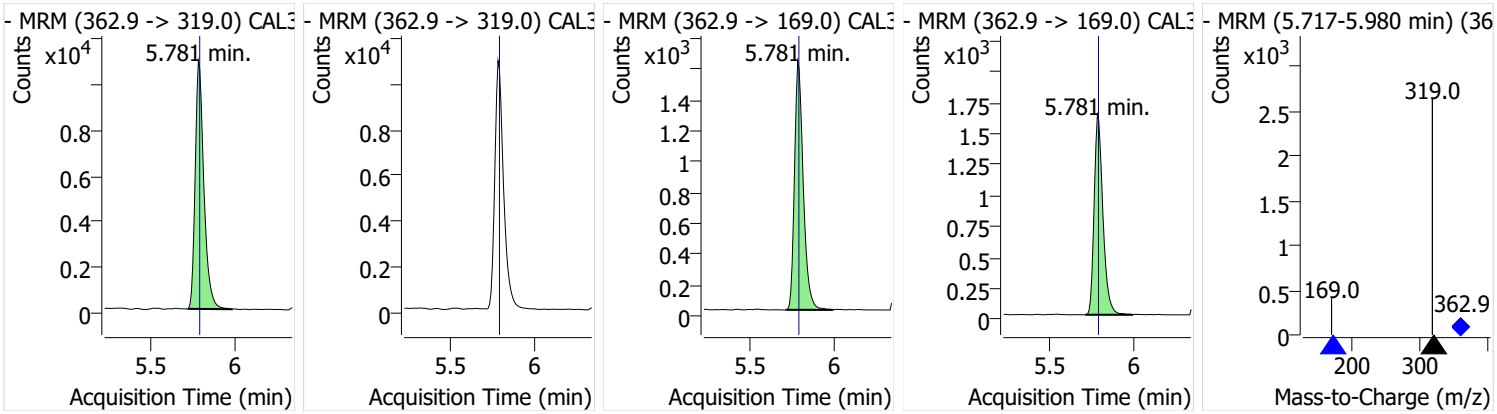

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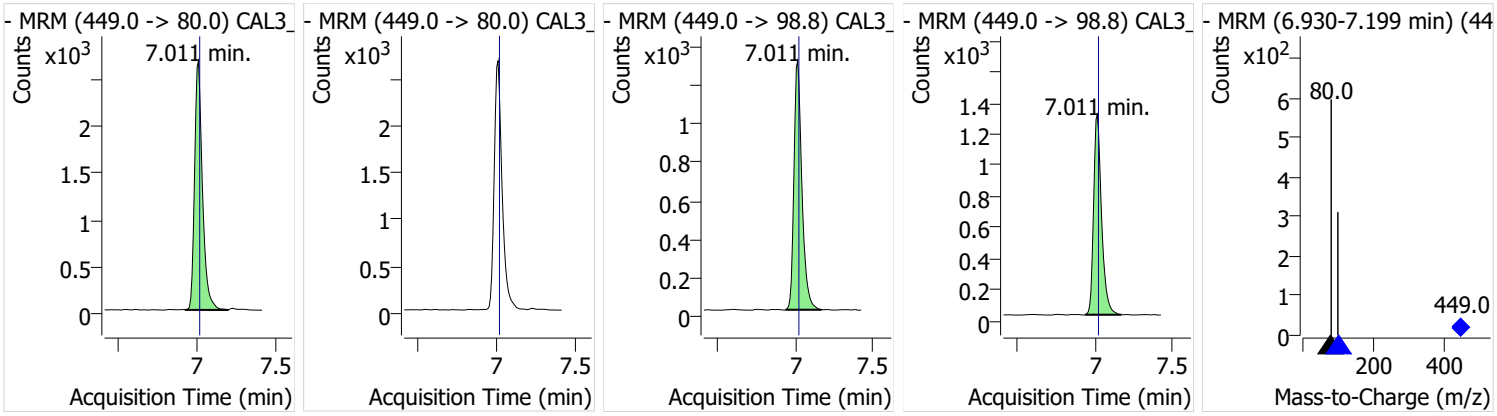

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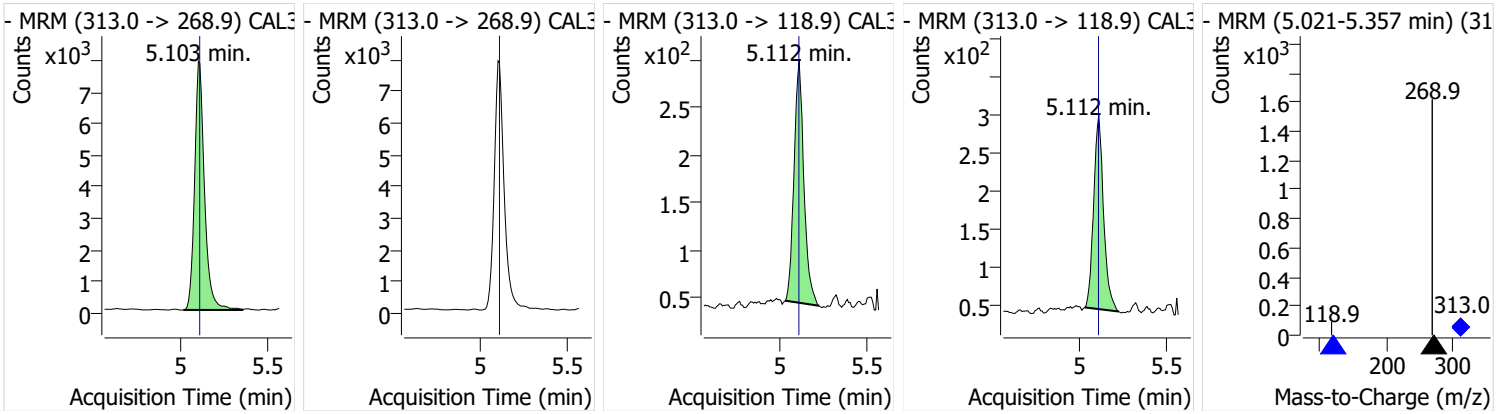

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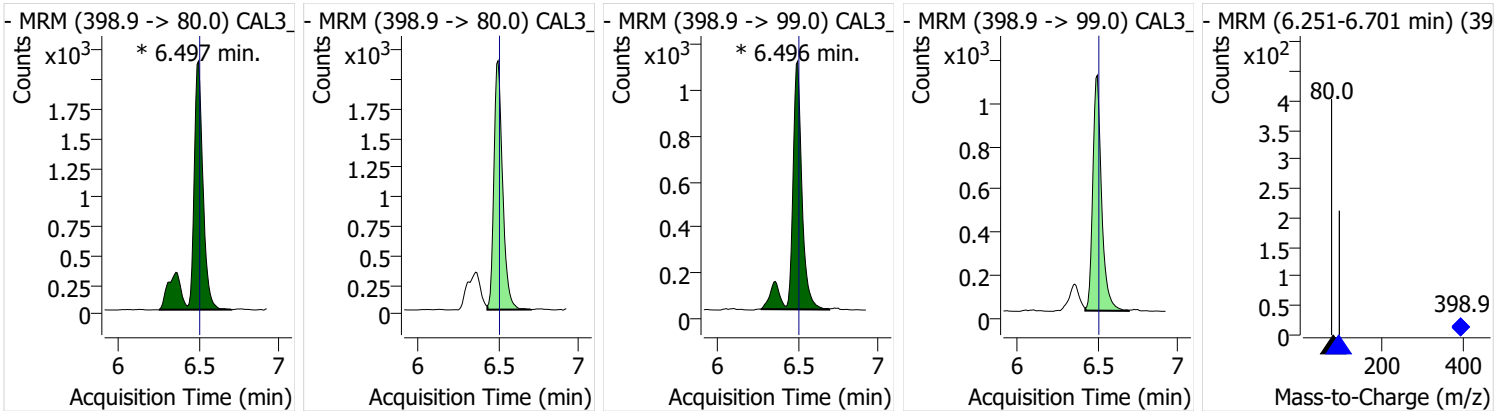

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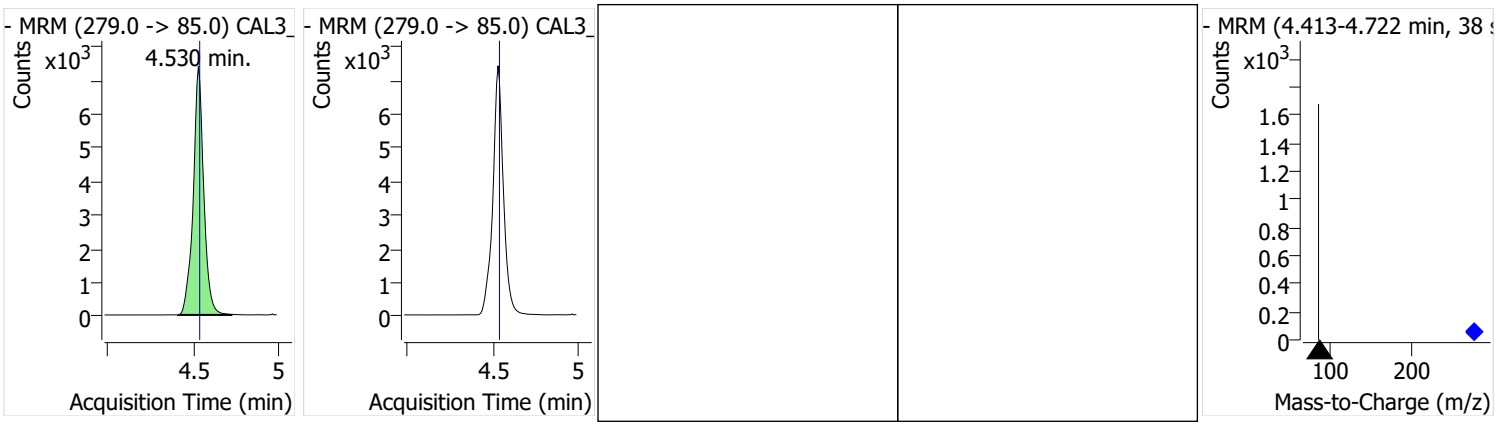

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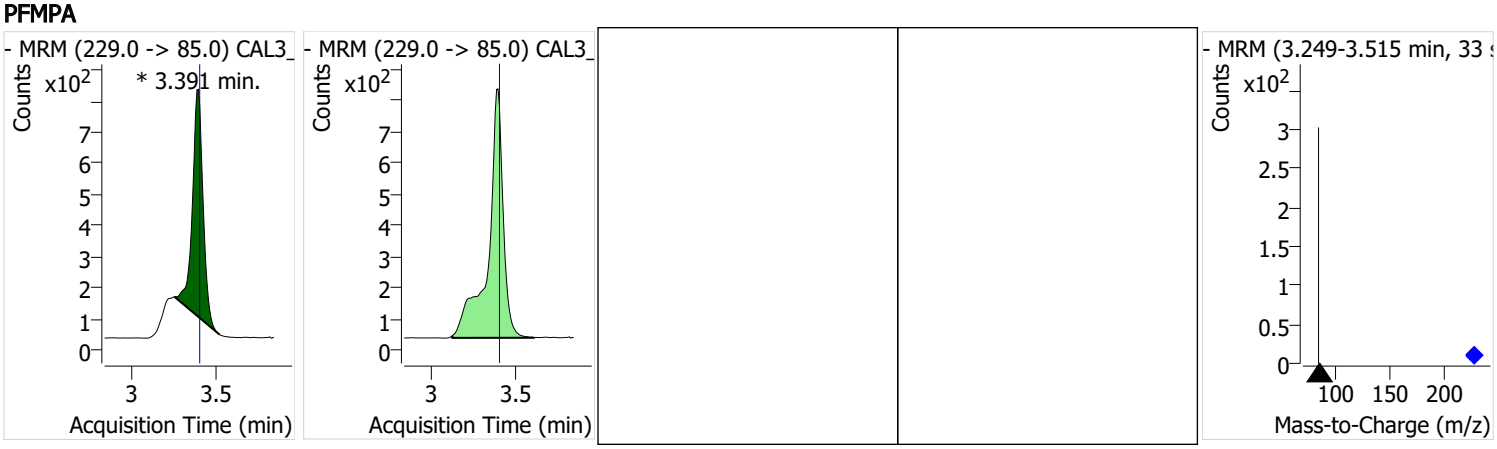

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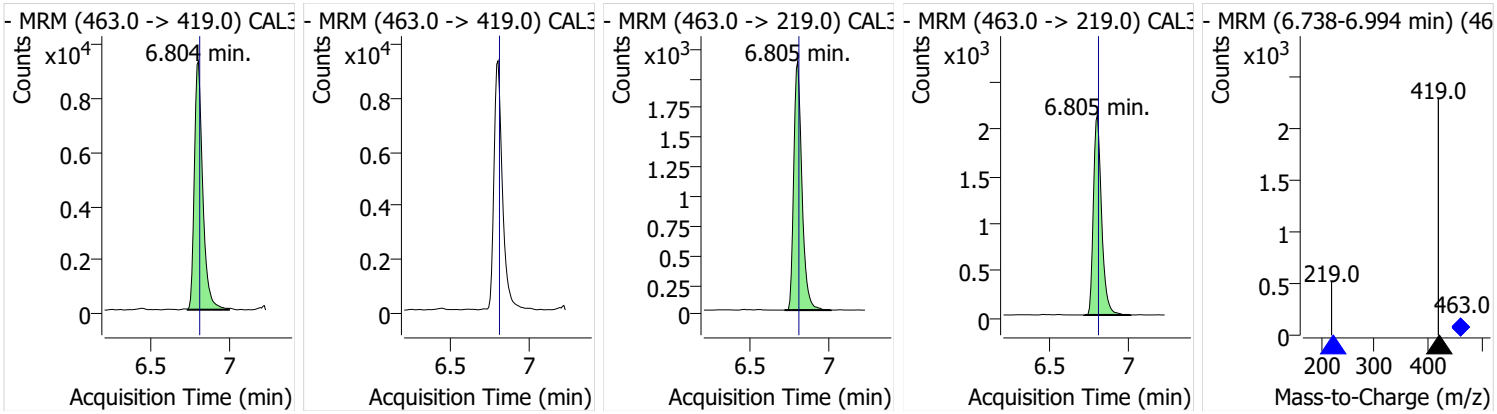

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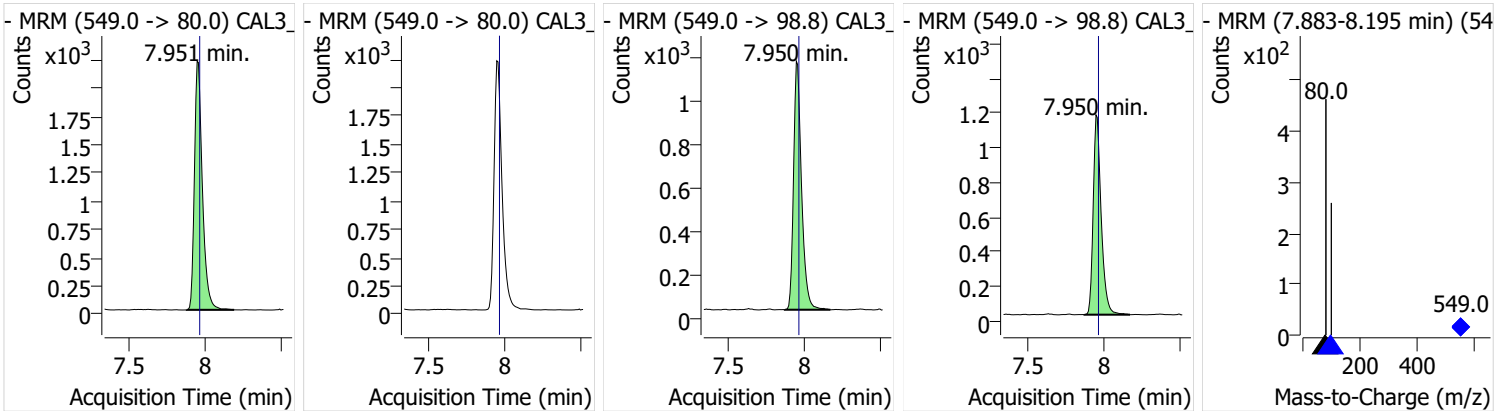

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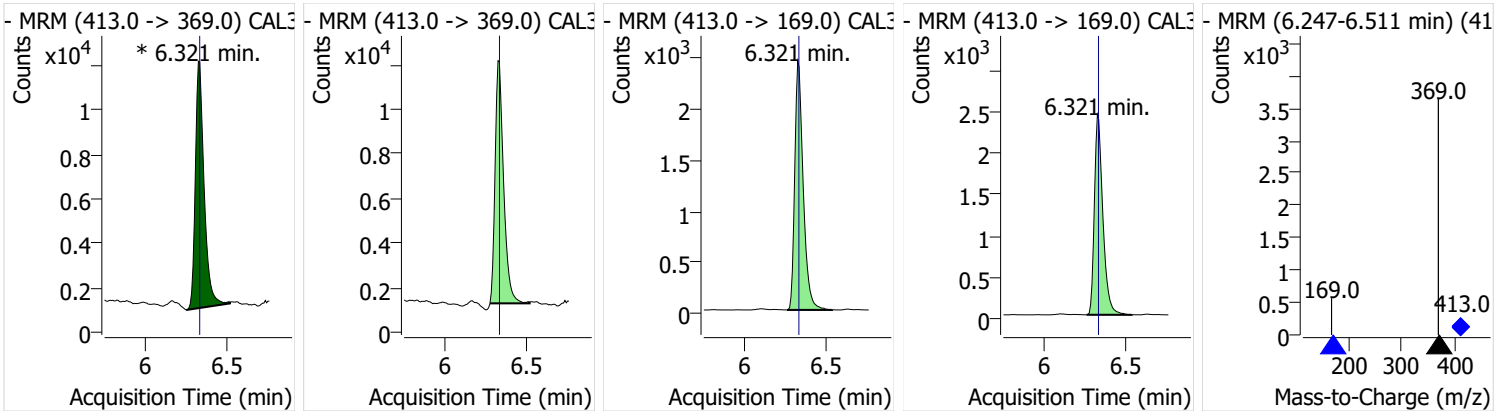

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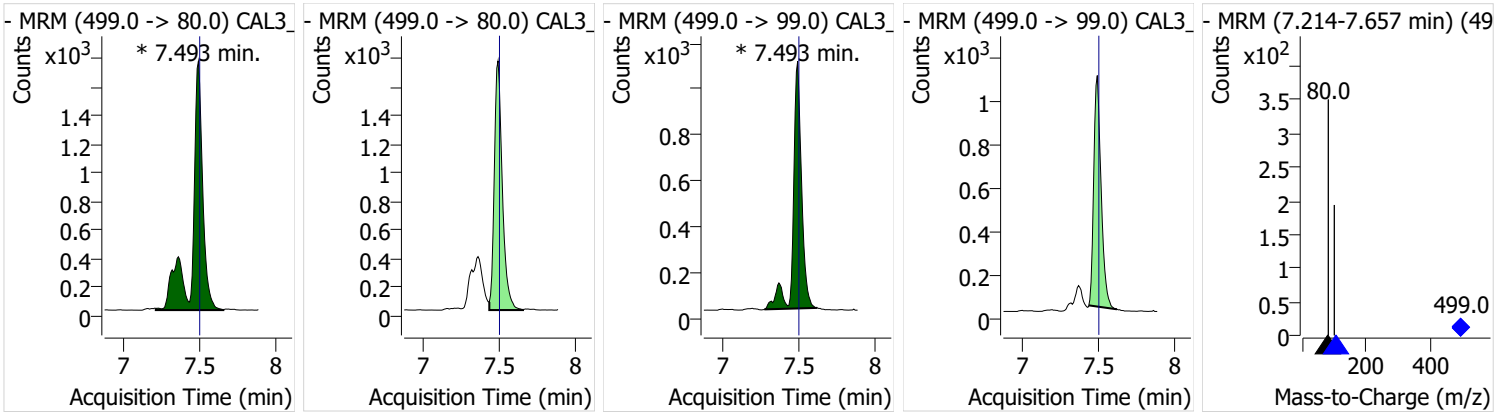

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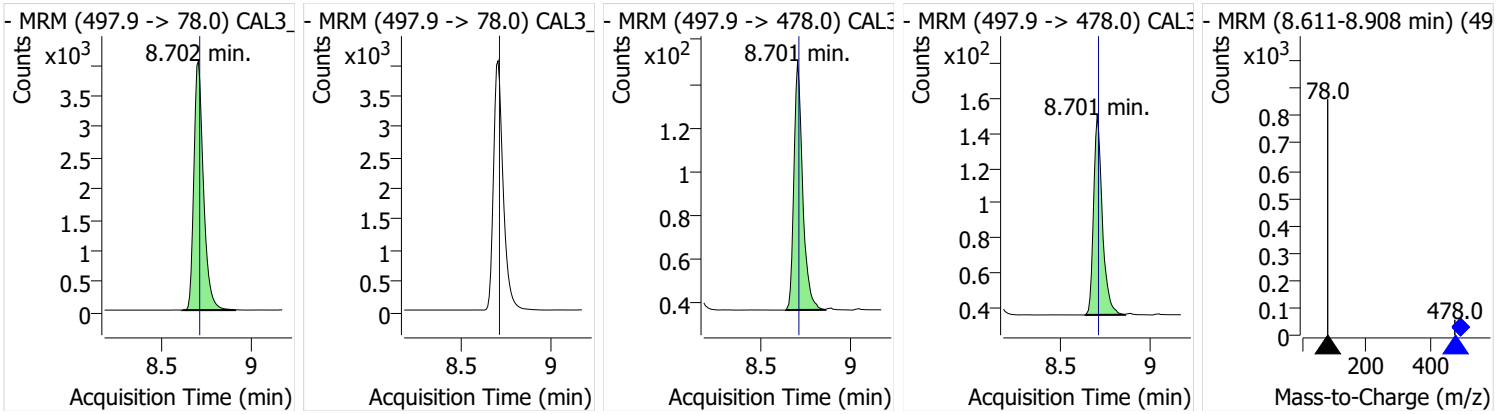

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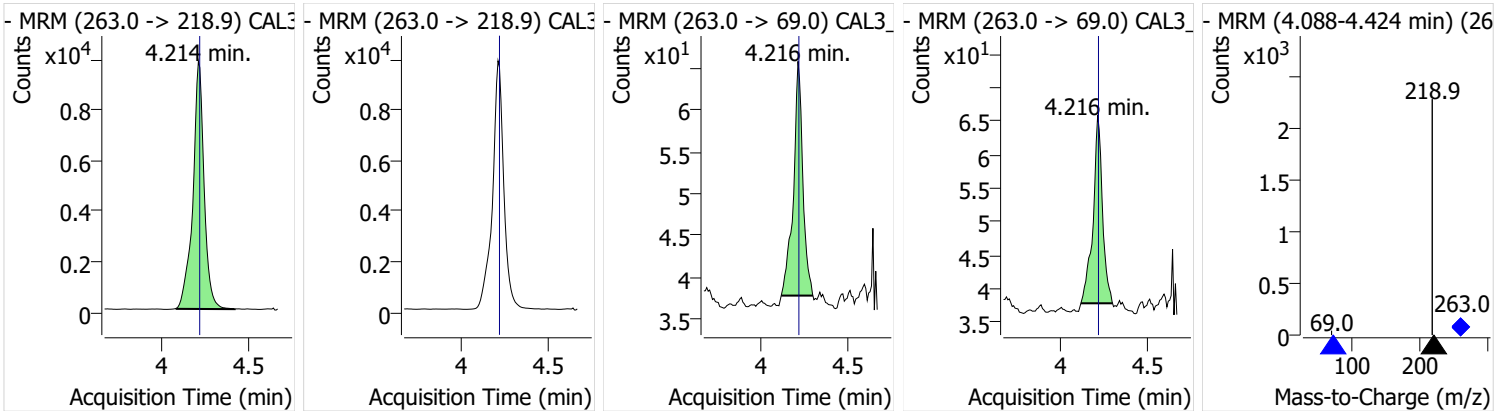

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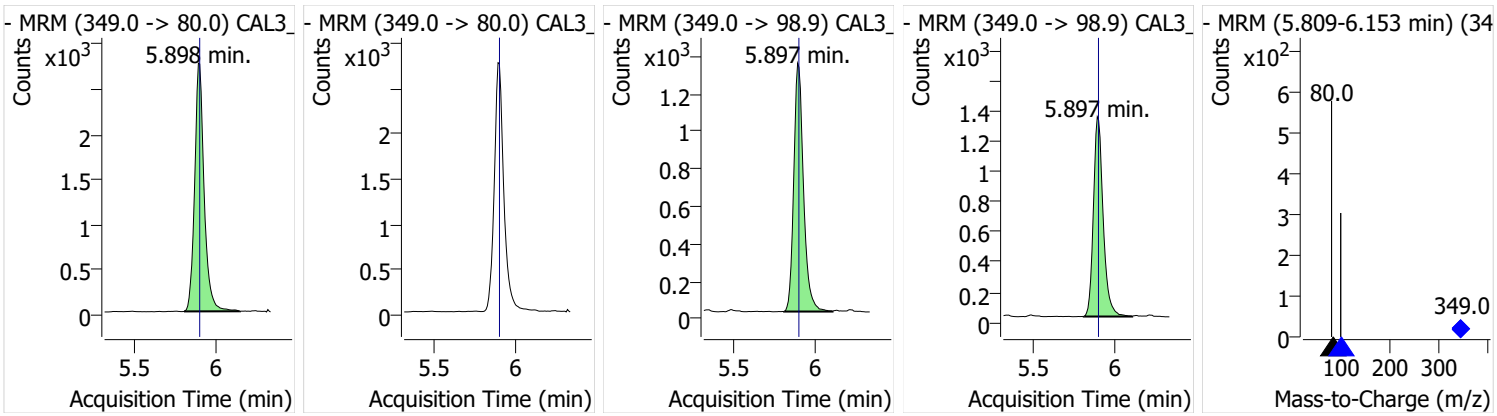

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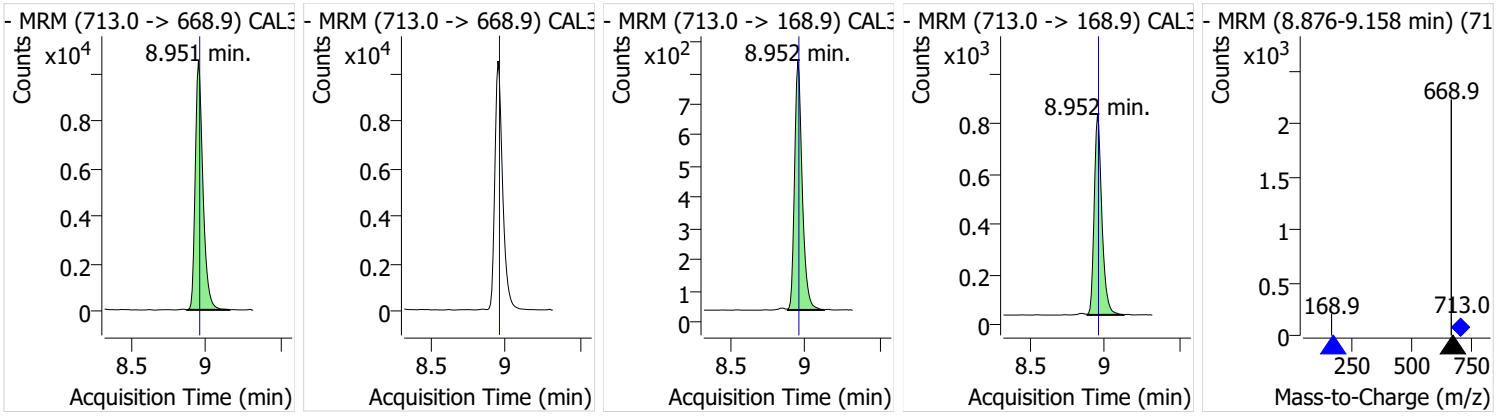

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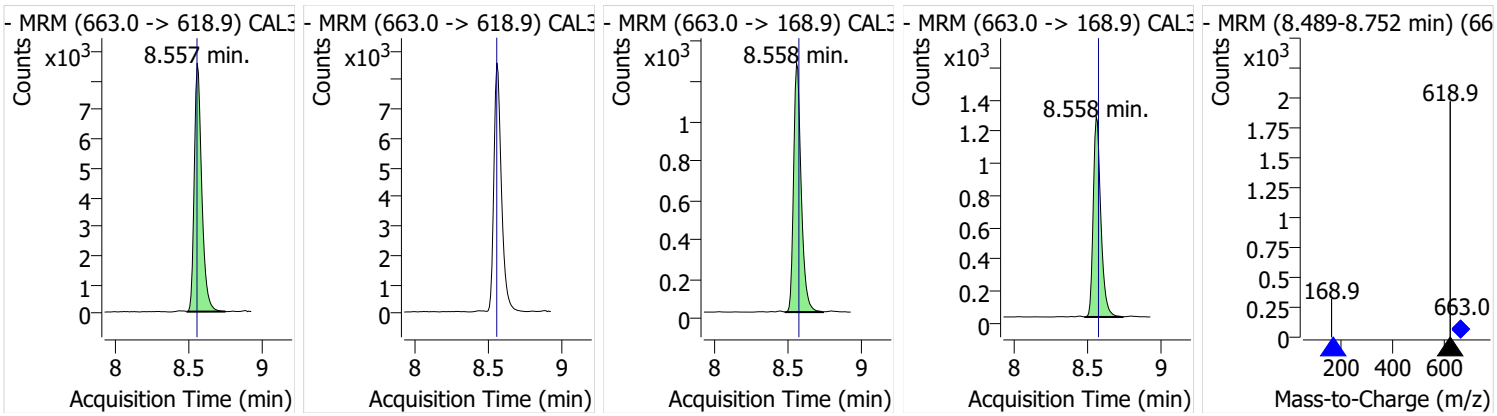

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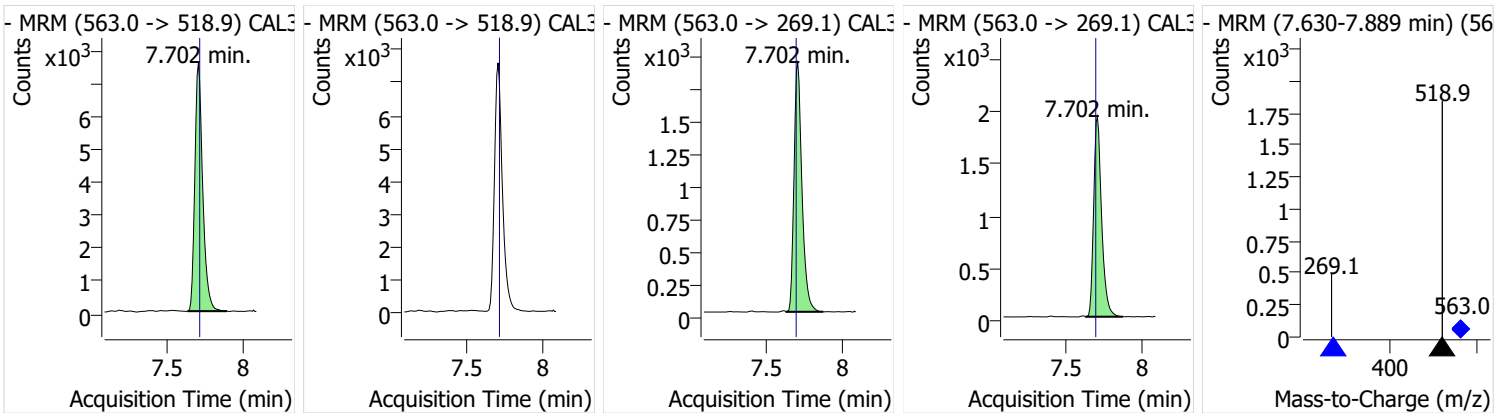

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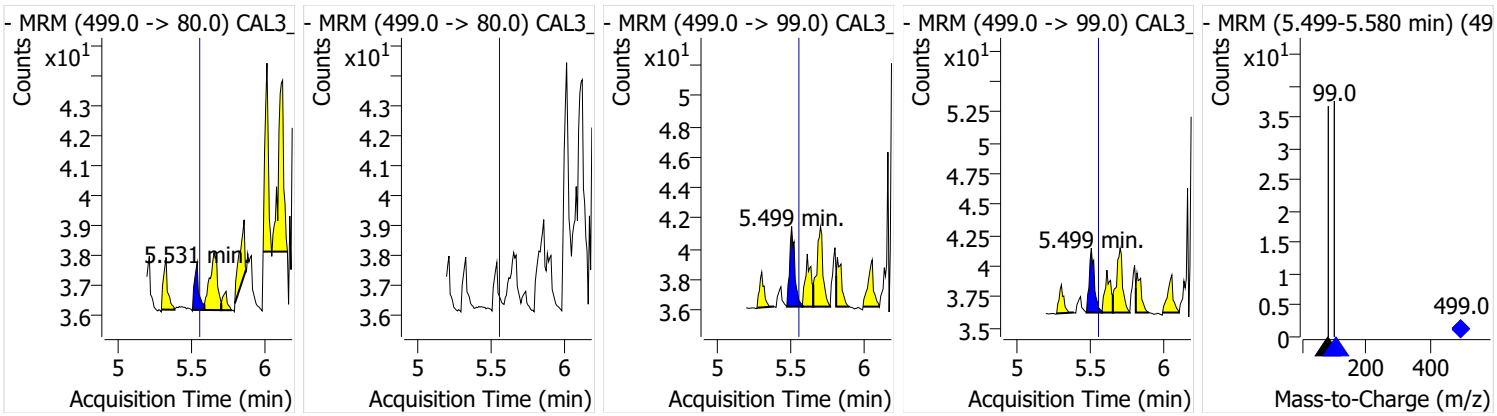

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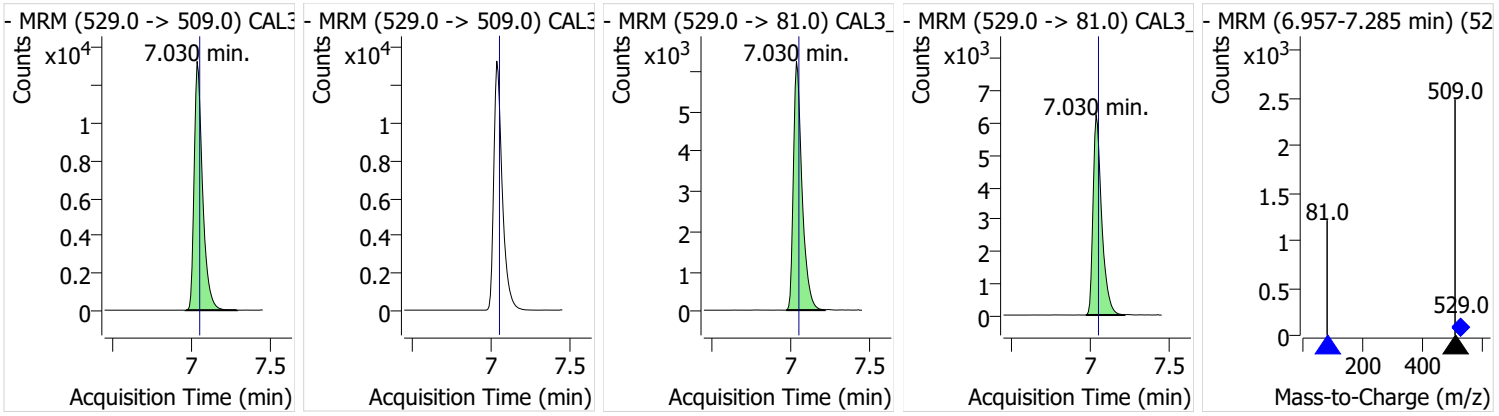

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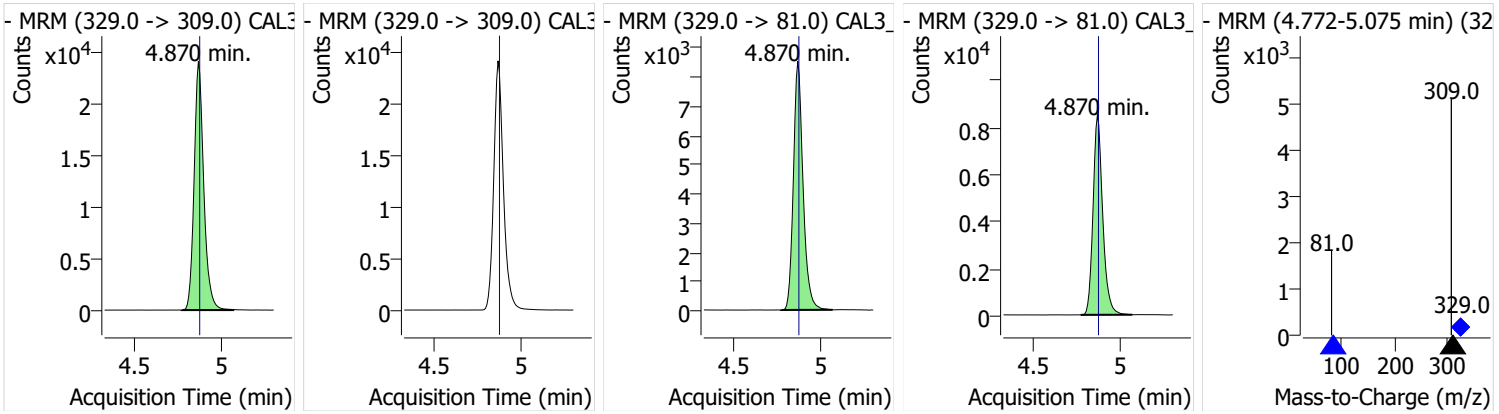

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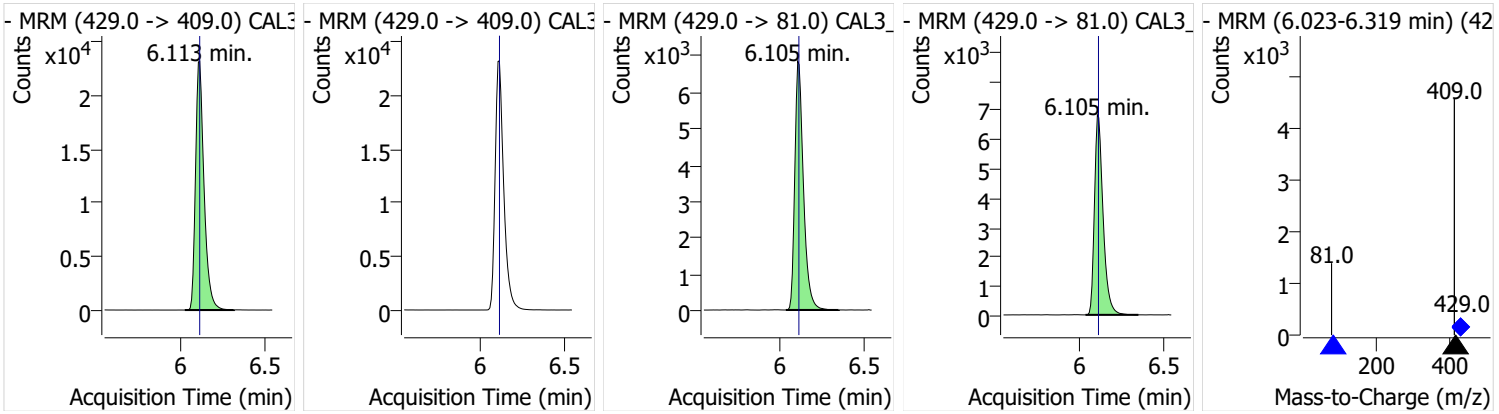

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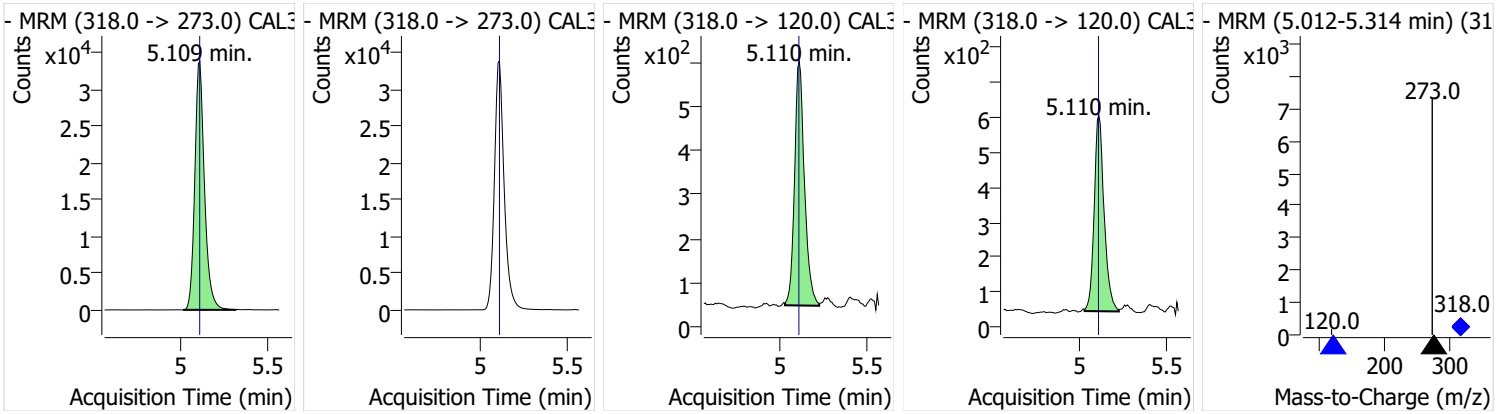

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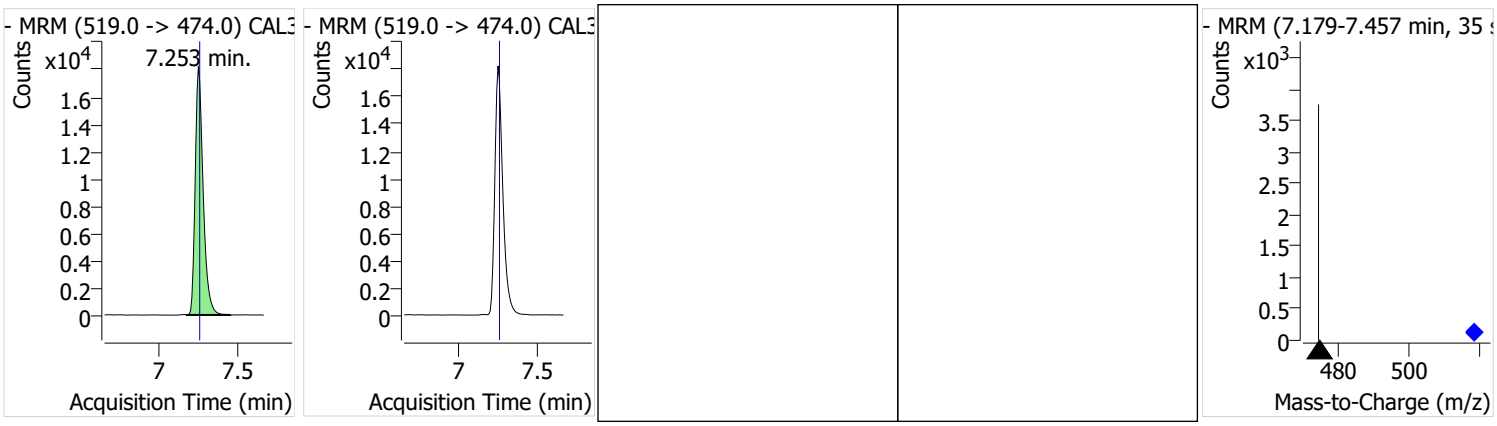

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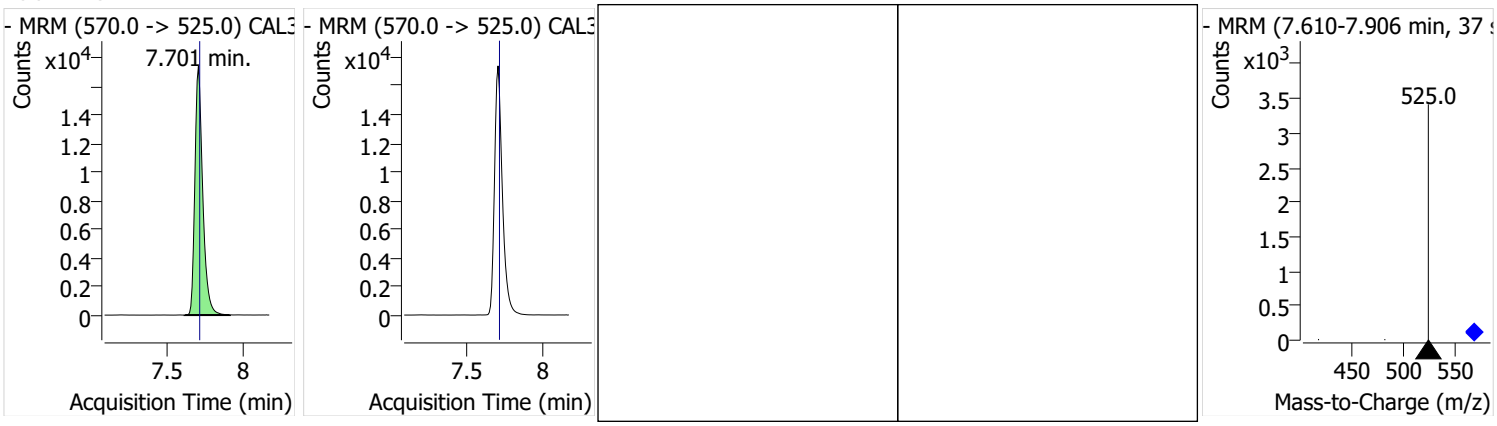

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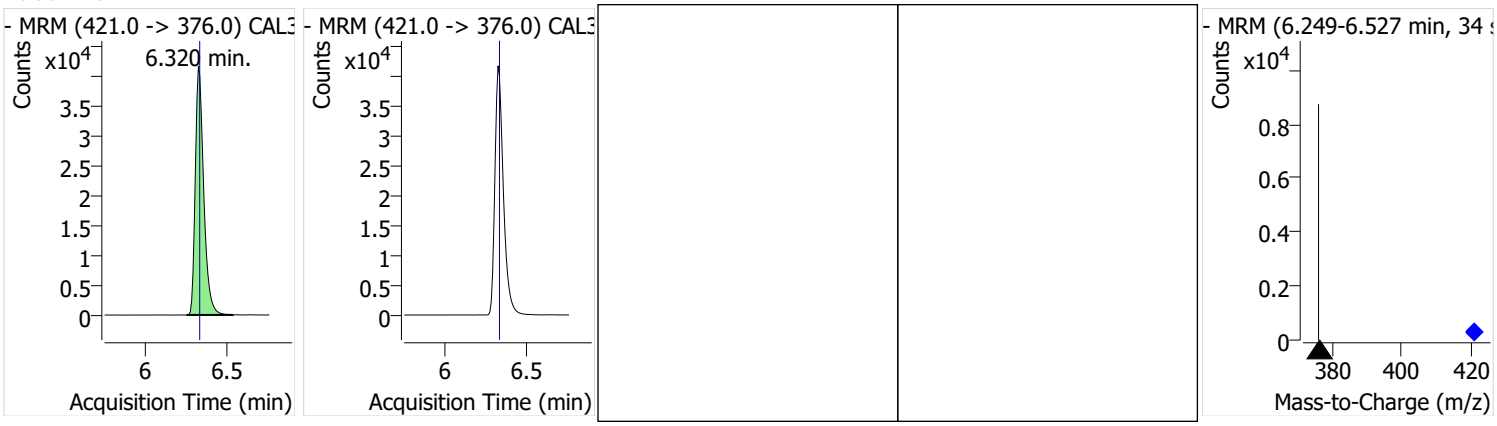

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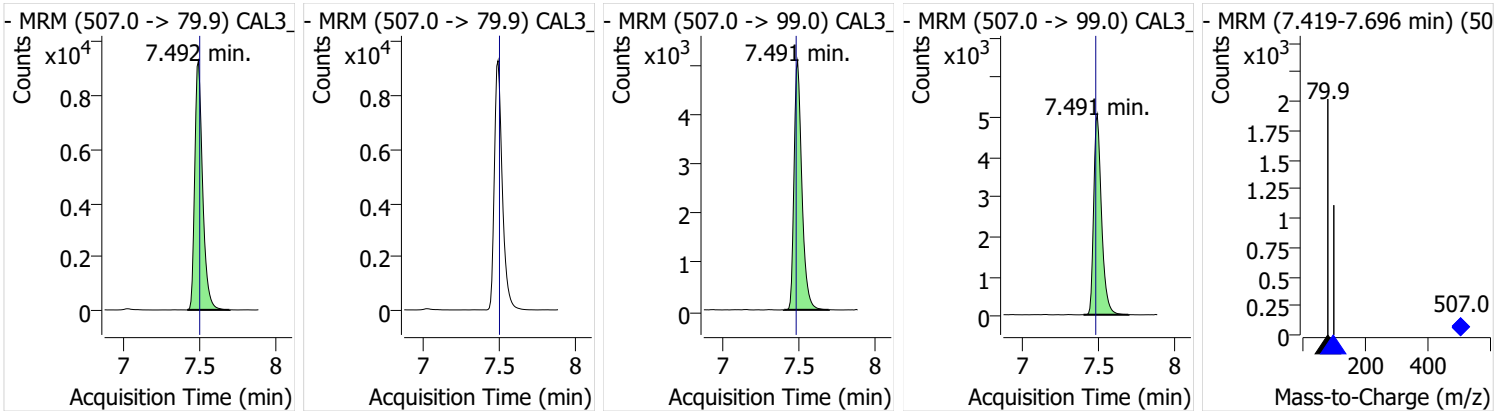

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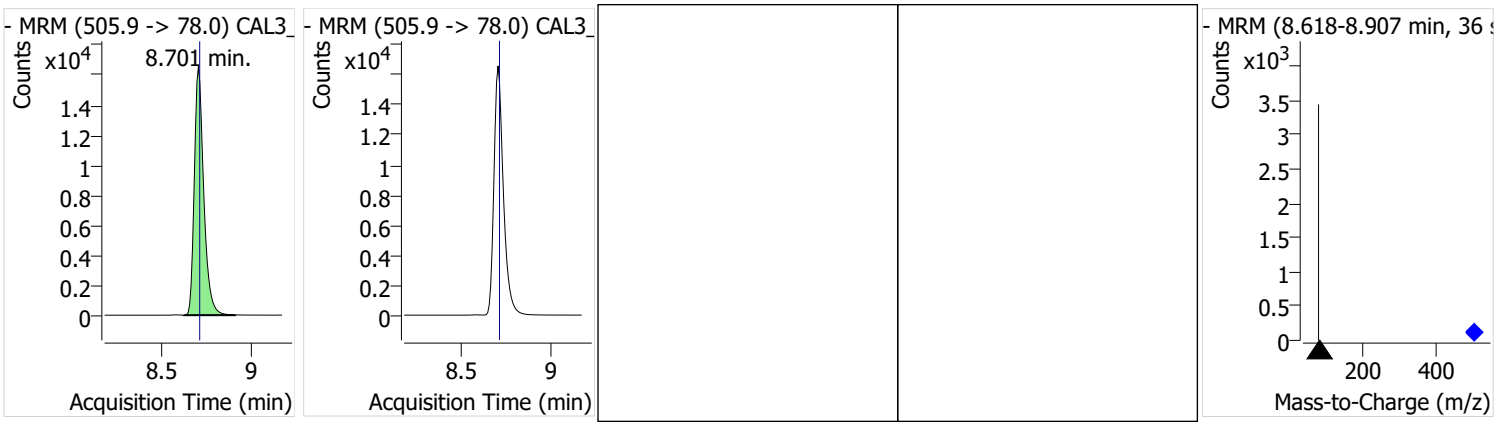

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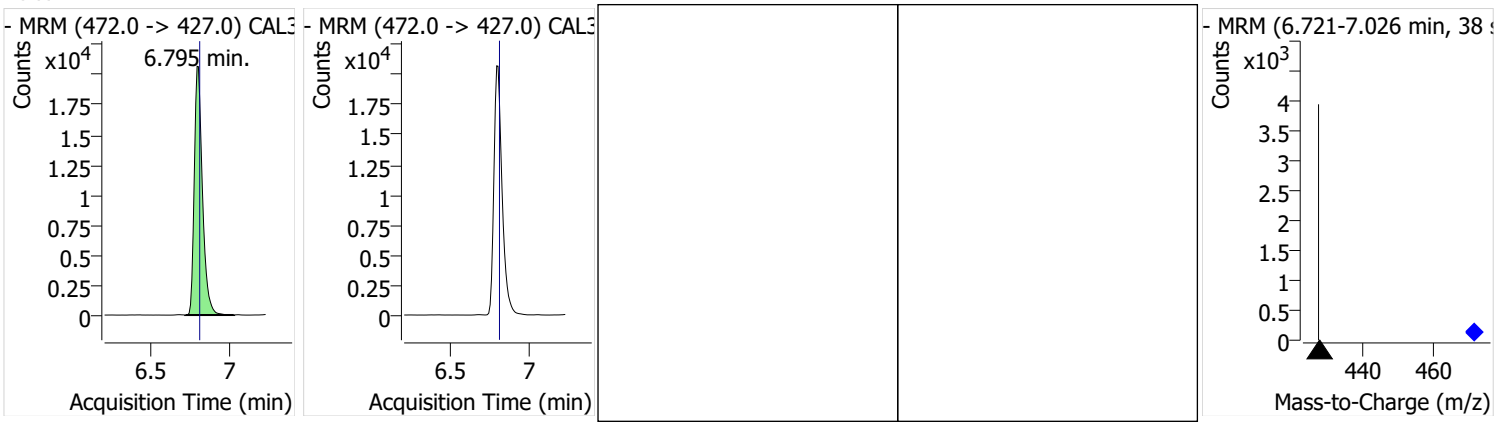

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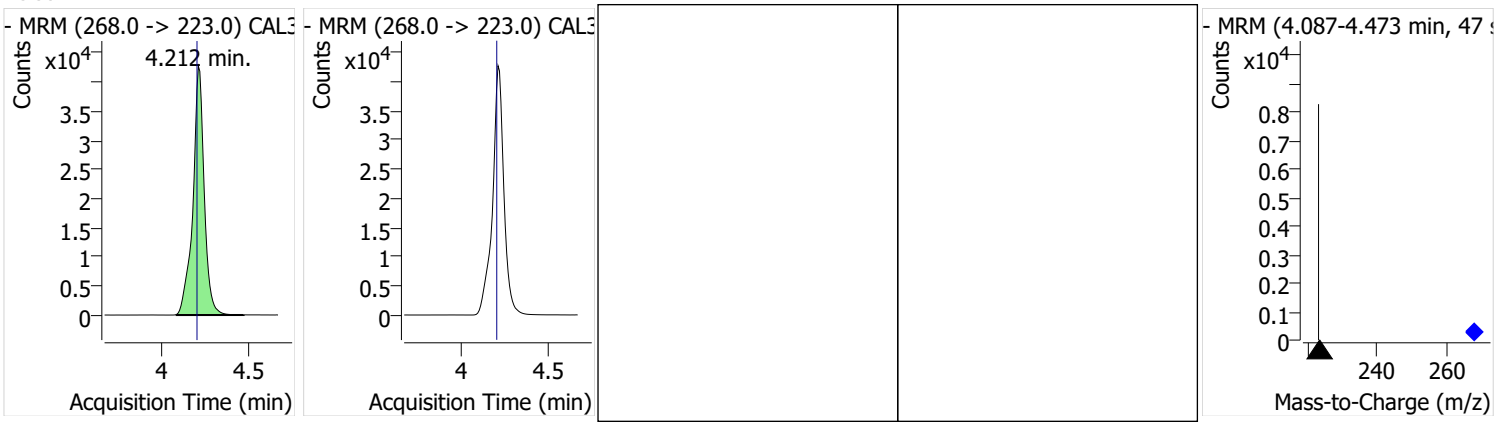

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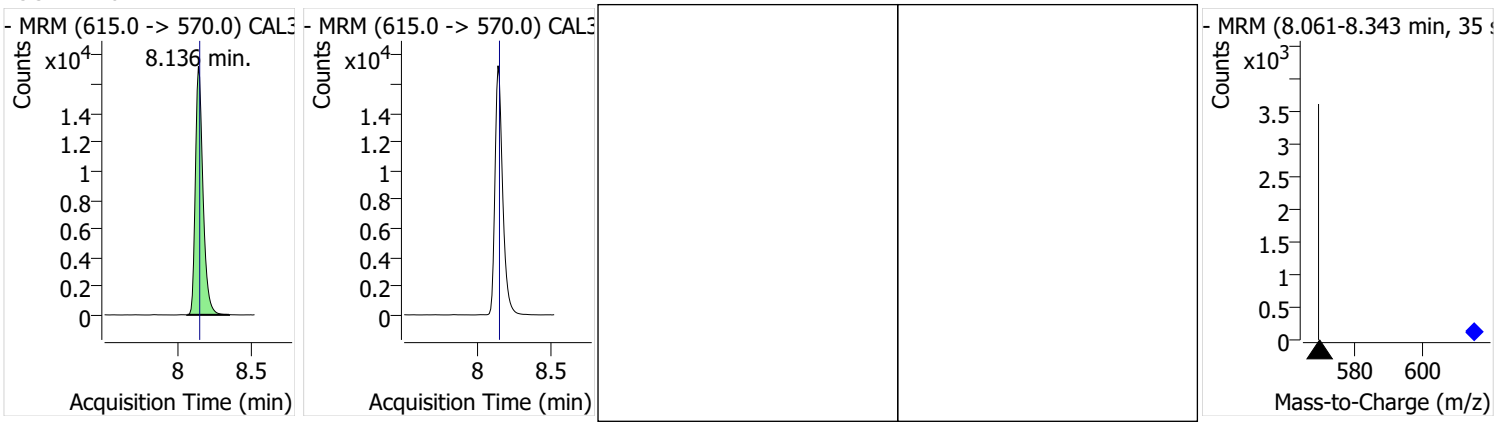

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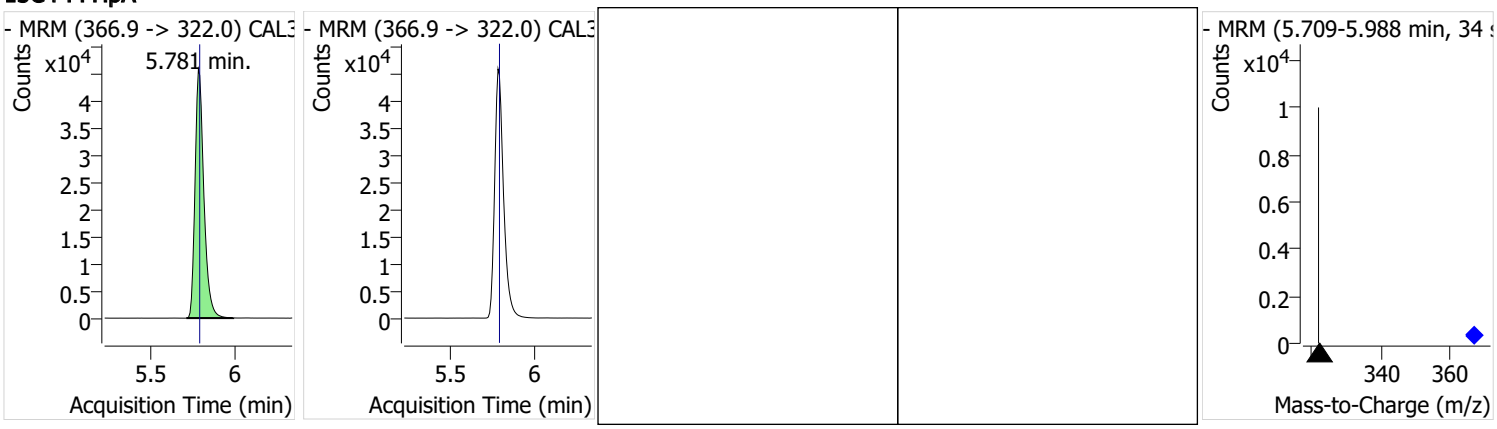

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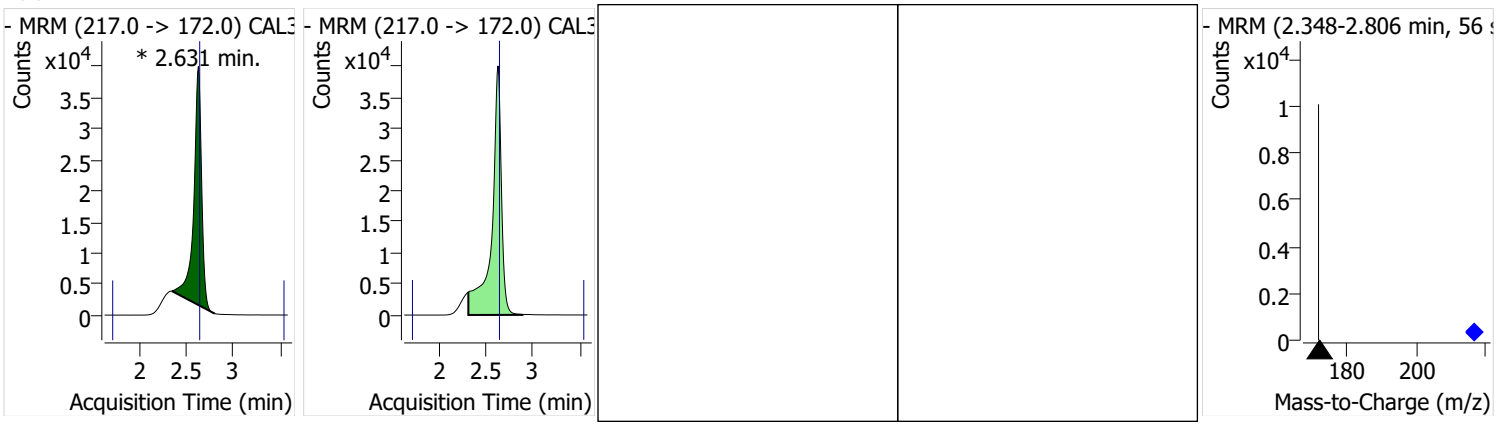

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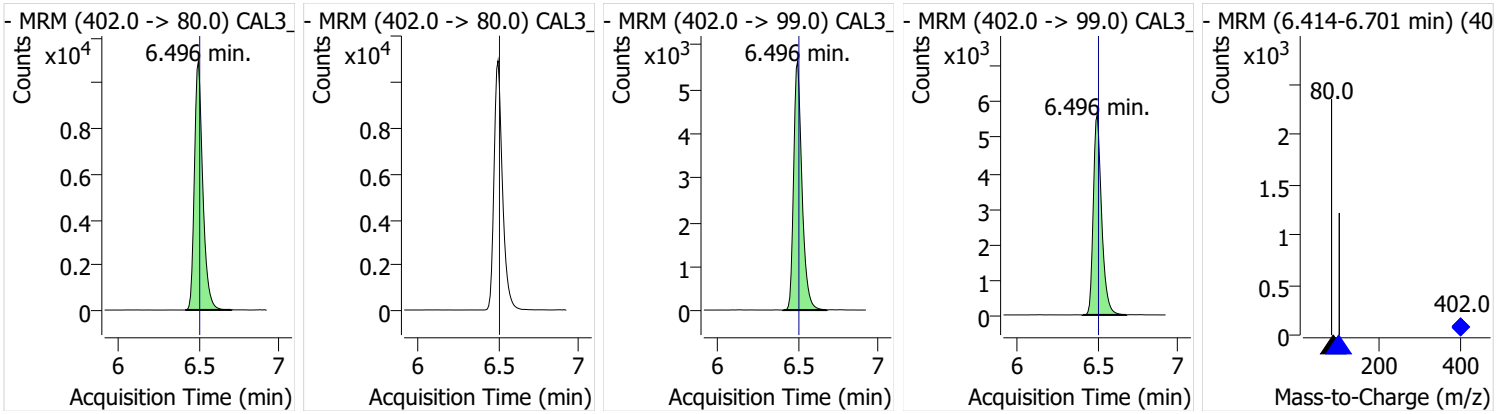

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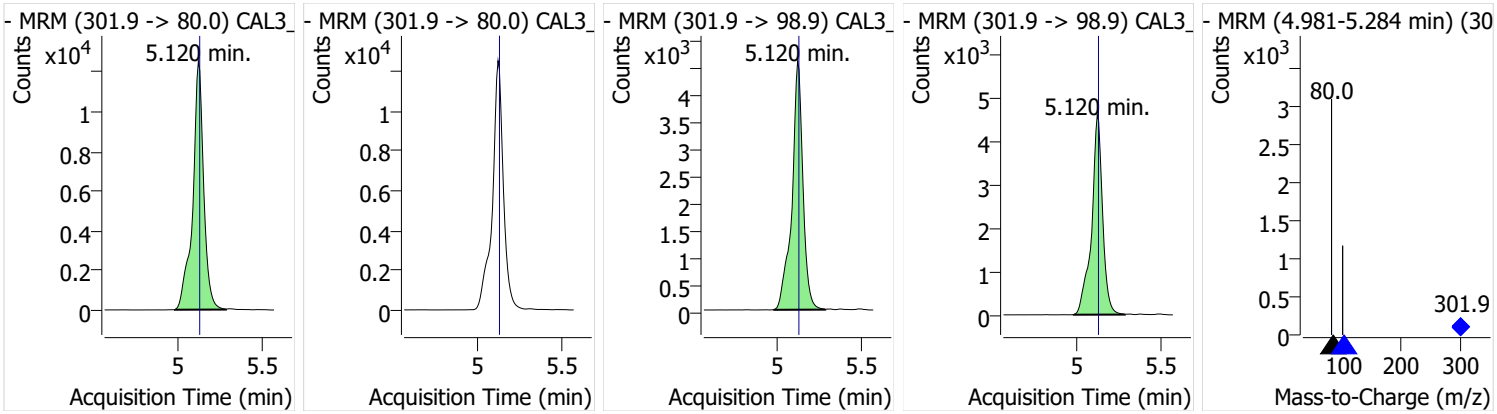

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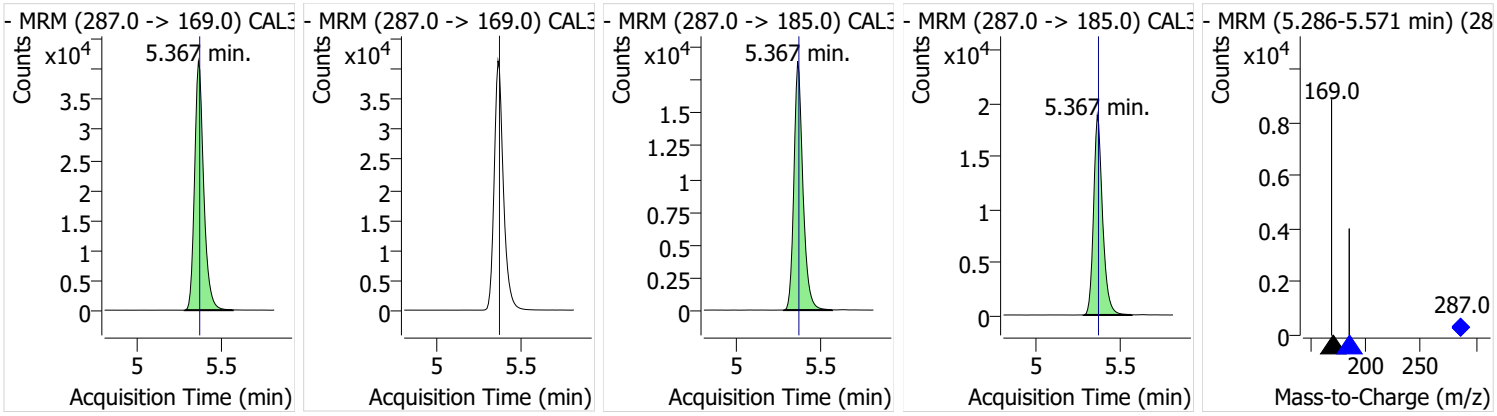

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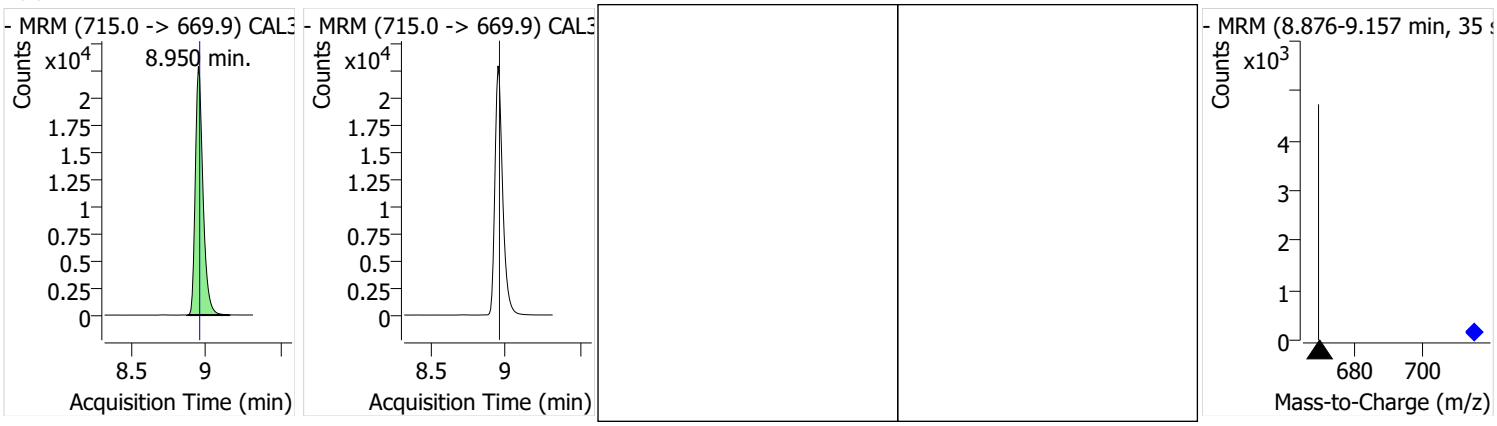
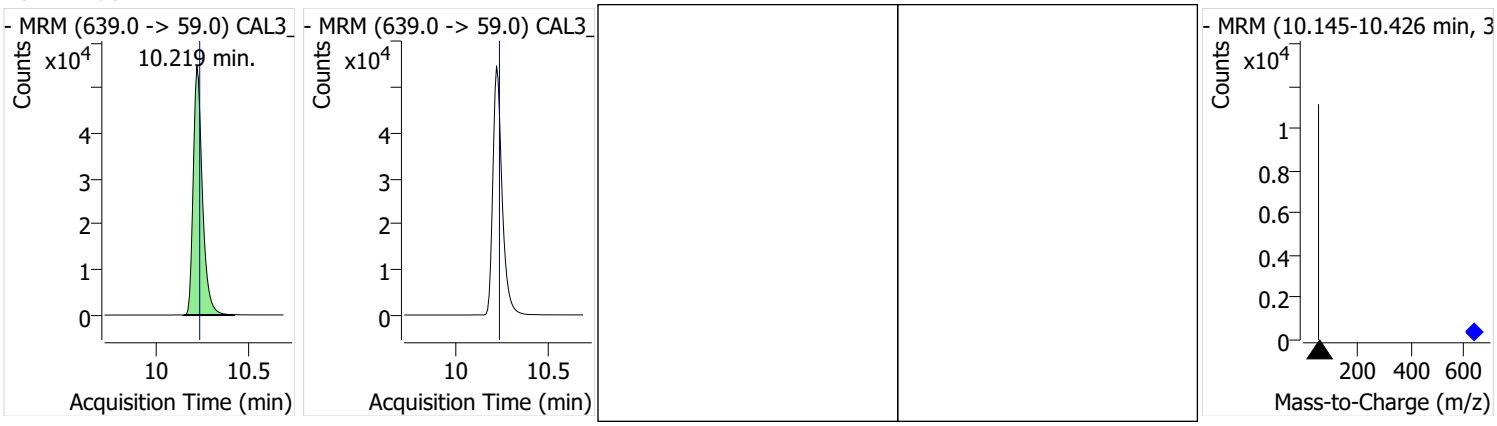


D9-NEtFOSE



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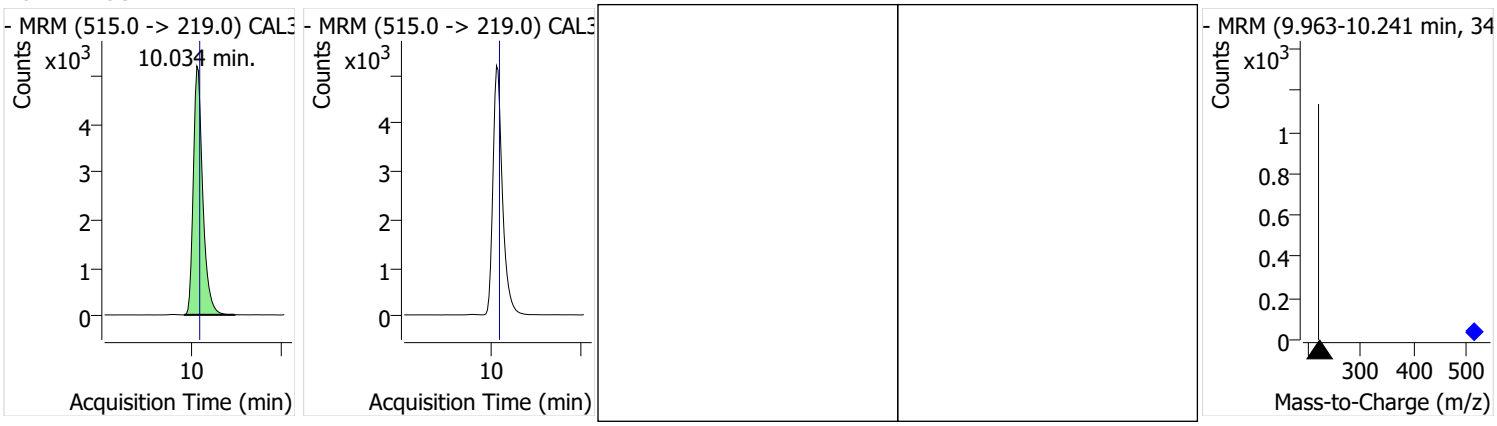

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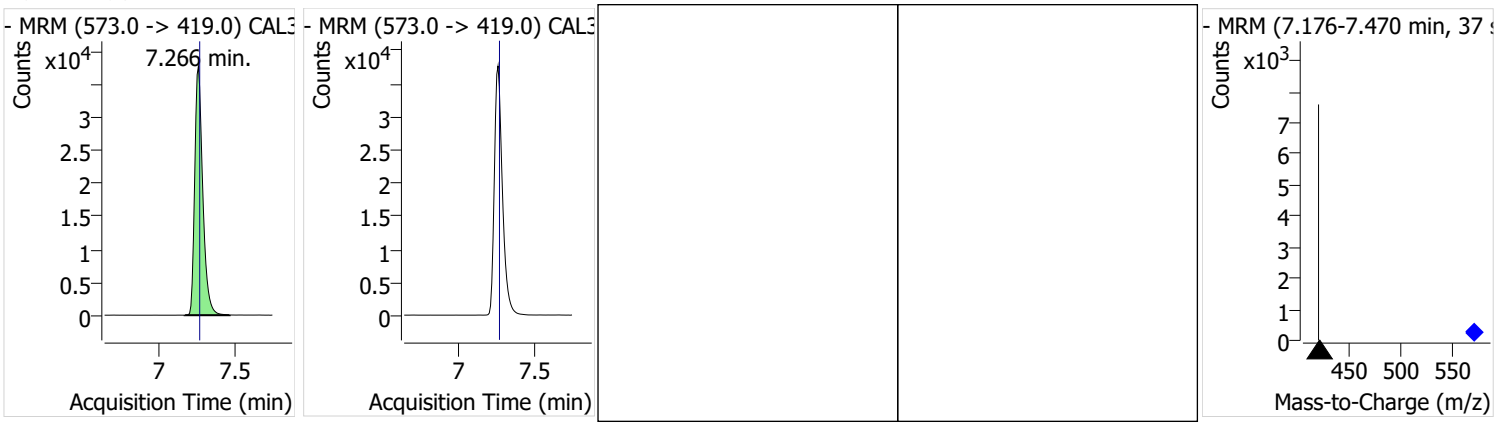

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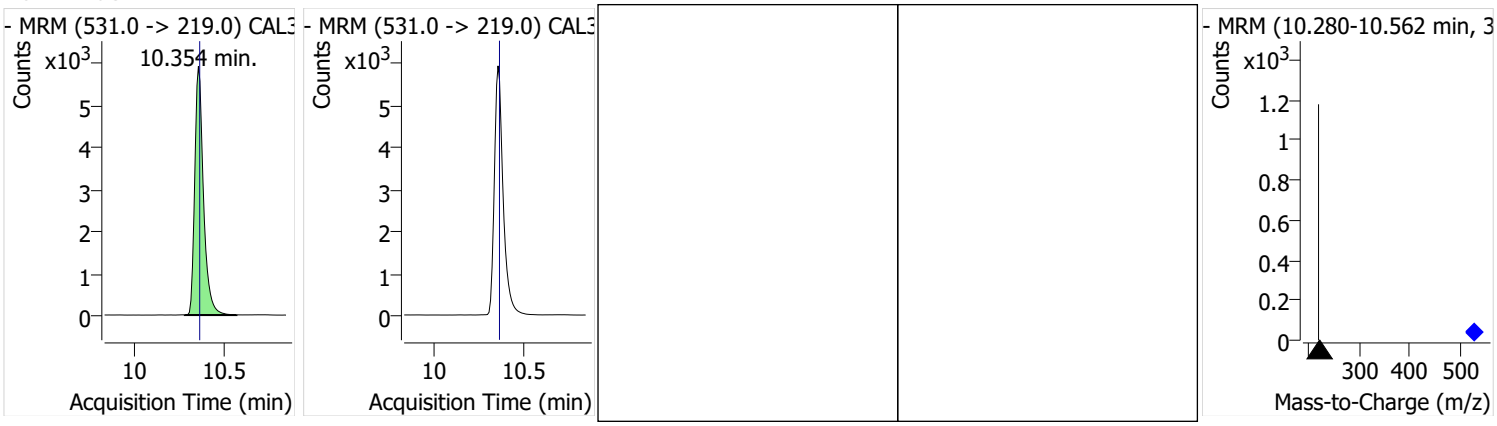

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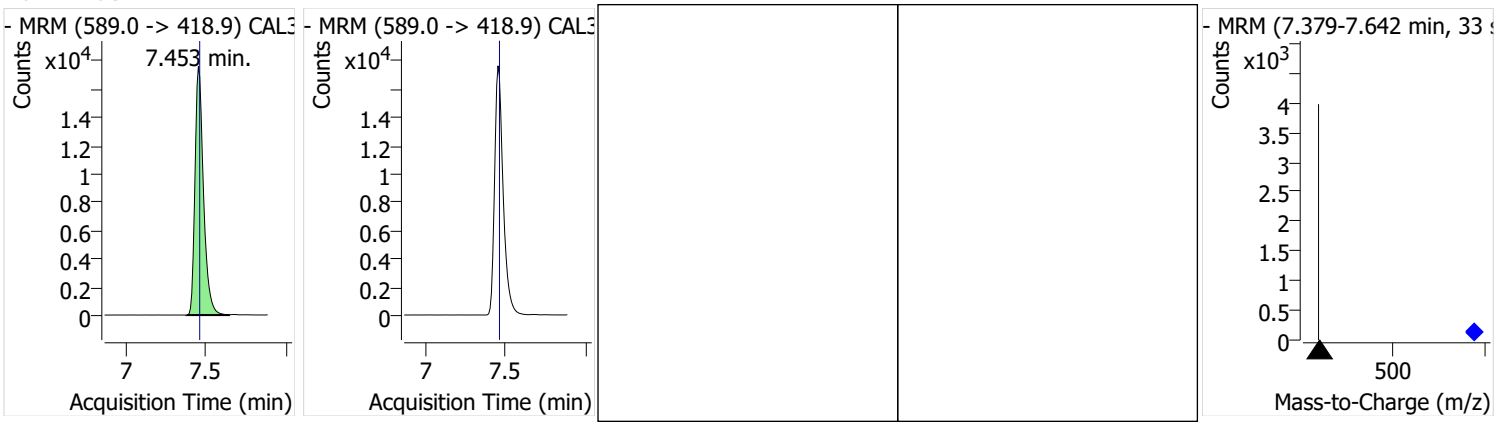

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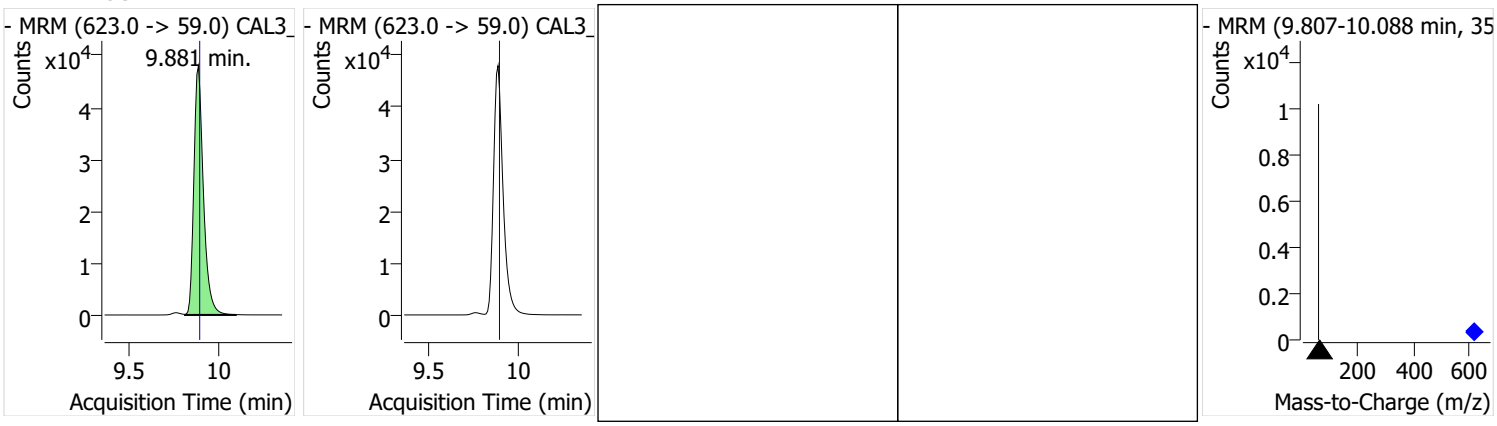

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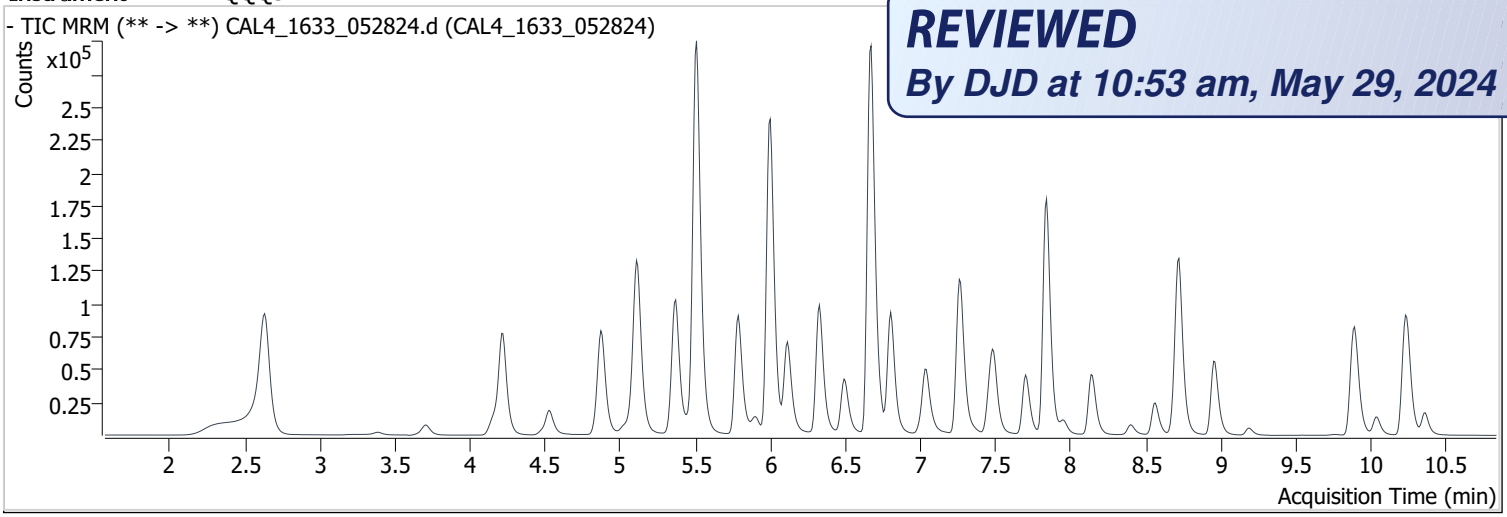
Acq. Time	5/28/2024 10:42 AM	**Data File**	CAL4_1633_052824.d
Sample Type	Cal	**Sample Name**	CAL4_1633_052824
Dilution	1	**Acq. Method**	1633_ACQUISITION.m
Sample Comment	E#24E0157	**Processing method**	1633_050624.m
Instrument	QQQ5		

REVIEWED
By DJD at 10:53 am, May 29, 2024



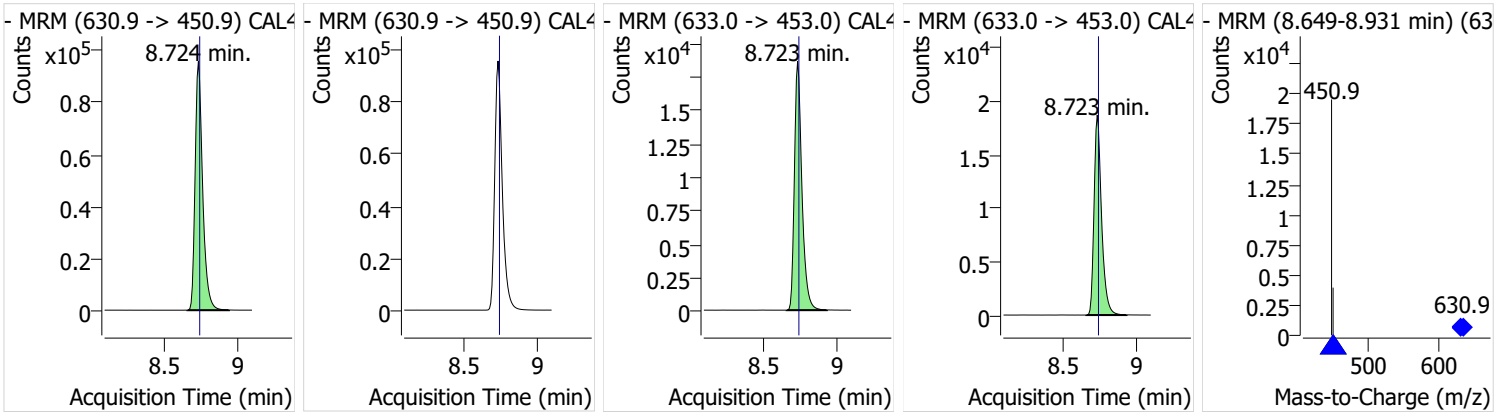
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
11Cl-PF3OUdS	8.724	339190	94745.15		13C3-HFPODA - ISTD	5.375	188400	4.7610	ng/ml			
633.0 -> 453.0			13435.28	19.5								
3:3FTCA	3.707	23675	9281.27		13C5-PFPeA - ISTD	4.212	239973	11.2255	ng/ml			
241.0 -> 117.0			1438.48	50.3								
4:2FTS	4.871	115922	56051.65		13C2-4:2FTS - ISTD	4.870	40984	4.4950	ng/ml			
327.0 -> 80.9			7179.97	34.9								
5:3FTCA	5.509	482021	97320.45		13C5-PFHxA - ISTD	5.109	161126	58.2541	ng/ml			
341.0 -> 217.0			54844.88	87.7								
6:2FTS	6.114	78971	23312.16		13C2-6:2FTS - ISTD	6.114	30028	4.6260	ng/ml			
427.0 -> 80.9			6264.40	36.5								
7:3FTCA	6.674	579400	10302.14		13C5-PFHxA - ISTD	5.109	161126	55.9131	ng/ml			
441.0 -> 317.0			4628.23	91.8								
8:2FTS	7.039	48608	367685.37		13C2-8:2FTS - ISTD	7.039	28043	4.8275	ng/ml			
527.0 -> 81.0			7342.47	57.0								
9Cl-PF3ONS	7.843	503645	27776.17		13C3-HFPODA - ISTD	5.375	188400	4.7096	ng/ml			
533.0 -> 353.0			2696.37	27.2								
ADONA	6.004	625688	51210.84		13C3-HFPODA - ISTD	5.375	188400	4.4213	ng/ml			
377.0 -> 85.1			45055.49	40.0								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA	5.376	78996	32757.98		13C3-HFPODA - ISTD	5.375	188400	4.9112	ng/ml			
285.0 -> 184.9			2610.33	46.0								
NEtFOSA	10.364	15212	11843.03		D5-NEtFOSA - ISTD	10.354	24125	1.1912	ng/ml			
526.0 -> 219.0			6904.71	95.1								
NEtFOSAA	7.461	21777	1727.88		D5-NEtFOSAA - ISTD	7.461	82610	1.2468	ng/ml	✔	3	AMS 05/29/24
584.0 -> 526.0			460.44	60.5								
NEtFOSE	10.245	130819	49195.48		D9-NEtFOSE - ISTD	10.219	237740	11.9822	ng/ml			
NFDHA	5.023	11189	5261.93		13C5-PFHxA - ISTD	5.109	161126	2.4789	ng/ml			
295.0 -> 85.0			1250.91	36.1								
NMeFOSA	10.044	13207	15615.15		D3-NMeFOSA - ISTD	10.034	22891	1.2293	ng/ml			
512.0 -> 219.0			6727.96	90.6								
NMeFOSAA	7.275	14953	2573.91		D3-NMeFOSAA - ISTD	7.266	169661	1.2084	ng/ml	✔	3	AMS 05/29/24
570.0 -> 418.9			3468.72	56.2								
NMeFOSE	9.899	116878	64530.92		D7-NMeFOSE - ISTD	9.881	217469	11.9977	ng/ml			
PFBA	2.637	117015	6408.99		13C4-PFBA - ISTD	2.631	267169	4.8367	ng/ml	✔	3	AMS 05/29/24
PFBS	5.121	35465	2637.86		13C3-PFBS - ISTD	5.120	70206	1.0694	ng/ml			
298.9 -> 98.8			2731.52	40.7								
PFDA	7.262	75173	2168.37		13C6-PFDA - ISTD	7.261	78256	1.2263	ng/ml			
513.0 -> 219.0			5521.82	21.2								
PFDoA	8.137	75866	2540.25		13C2-PFDoA - ISTD	8.136	77481	1.2194	ng/ml			
613.0 -> 319.0			2832.81	17.1								
PFDoS	9.189	11670	8915.04		13C8-PFOS - ISTD	7.492	41434	1.1542	ng/ml			
698.9 -> 99.0			4075.74	65.8								
PFDS	8.403	16689	5241.26		13C8-PFOS - ISTD	7.492	41434	1.1515	ng/ml			
599.0 -> 98.8			1959.27	58.4								
PFEESA	5.511	218184	19919.06		13C5-PFHxA - ISTD	5.109	161126	2.3091	ng/ml			
315.0 -> 83.0			2094.87	6.9								
PFHpA	5.789	101458	2692.74		13C4-PFHpA - ISTD	5.789	203652	1.2032	ng/ml			
362.9 -> 169.0			5446.80	15.2								
PFHpS	7.011	23324	2792.05		13C8-PFOS - ISTD	7.492	41434	1.1714	ng/ml			
449.0 -> 98.8			2164.99	51.6								

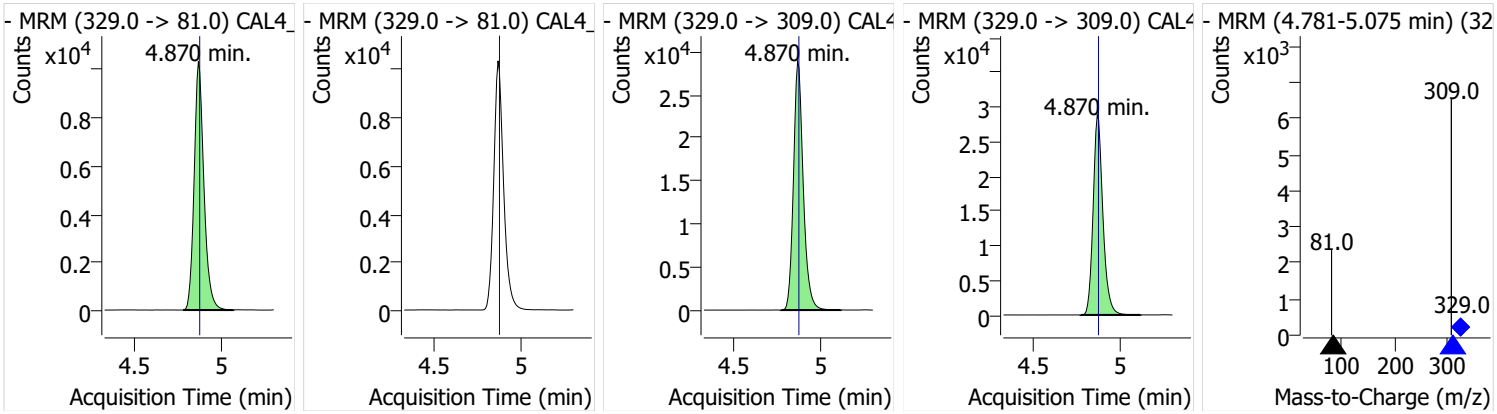
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFHxA	5.111	75783	1819.25		13C5-PFHxA - ISTD	5.109	161126	1.2003	ng/ml			
313.0 -> 118.9			297.98	3.0								
PFHxS	6.497	23121	1136.68		13C3-PFHxS - ISTD	6.496	46786	1.0361	ng/ml	✔	3	AMS 05/29/24
398.9 -> 99.0			1950.52	50.2								
PFMBA	4.530	79907	57592.63		13C5-PFPeA - ISTD	4.212	239973	2.5291	ng/ml			
PFMPA	3.391	8347	4049.97		13C5-PFPeA - ISTD	4.212	239973	2.4955	ng/ml	✔	3	AMS 05/29/24
PFNA	6.804	86364	1889.16		13C9-PFNA - ISTD	6.804	89917	1.2192	ng/ml			
463.0 -> 219.0			5763.51	22.8								
PFNS	7.959	20480	5516.36		13C8-PFOS - ISTD	7.492	41434	1.1476	ng/ml			
549.0 -> 98.8			3258.49	57.2								
PFOA	6.329	104506	618.80		13C8-PFOA - ISTD	6.328	189985	1.1979	ng/ml			
413.0 -> 169.0			6071.92	22.8								
PFOS	7.493	21440	1238.22		13C8-PFOS - ISTD	7.492	41434	1.0672	ng/ml	✔	3	AMS 05/29/24
499.0 -> 99.0			1097.29	51.3								
PFOSA	8.702	38548	23416.82		13C8-PFOSA - ISTD	8.701	74876	1.1951	ng/ml			
497.9 -> 478.0			8630.10	2.4								
PFPeA	4.214	113634	8029.17		13C5-PFPeA - ISTD	4.212	239973	2.4033	ng/ml			
263.0 -> 69.0			116.35	0.2								
PFPeS	5.906	28911	2981.94		13C3-PFHxS - ISTD	6.496	46786	1.1407	ng/ml			
349.0 -> 98.9			2573.41	49.8								
PFTeDA	8.951	96176	4828.46		13C2-PFTeDA - ISTD	8.950	100189	1.2398	ng/ml			
713.0 -> 168.9			6844.01	7.3								
PFTrDA	8.565	76439	5130.04		13C2-PFDoA - ISTD	8.136	77481	1.1866	ng/ml			
663.0 -> 168.9			5784.20	14.9								
PFUnA	7.702	69629	4228.02		13C7-PFUnA - ISTD	7.701	74875	1.1994	ng/ml			
563.0 -> 269.1			4115.23	23.7								
TDCA	5.458	7	7.22					-	ng/ml			
499.0 -> 99.0			5.67	*244.0								
13C2-8:2FTS	7.038	59660	649917.45		18O2-PFHxS	6.495	47139	4.6344	ng/ml			
529.0 -> 81.0			10548.93	47.0								
13C2-4:2FTS	4.870	115016	27736.28		18O2-PFHxS	6.495	47139	4.7927	ng/ml			
329.0 -> 81.0			6818.97	35.6								
13C2-6:2FTS	6.113	100658	13405.19		18O2-PFHxS	6.495	47139	4.7191	ng/ml			

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
429.0 -> 81.0			5906.19	29.8								
13C5-PFHxA	5.109	161126	12991.46		13C2-PFHxA	5.110	156517	2.4297	ng/ml			
318.0 -> 120.0			160.21	1.6								
13C6-PFDA	7.261	78256	7929.69		13C2-PFDA	7.262	82873	1.1859	ng/ml			
13C7-PFUnA	7.701	74875	13107.22		13C2-PFDA	7.262	82873	1.2136	ng/ml			
13C8-PFOA	6.328	189985	24316.98		13C4-PFOA	6.329	23574	2.4630	ng/ml			
13C8-PFOS	7.492	41434	4716.64		13C4-PFOS	7.492	46288	2.4133	ng/ml			
507.0 -> 99.0			2431.86	53.7								
13C8-PFOSA	8.701	74876	1139822.84		13C4-PFOS	7.492	46288	2.4135	ng/ml			
13C9-PFNA	6.804	89917	15439.38		13C5-PFNA	6.804	119555	1.2223	ng/ml			
13C5-PFPeA	4.212	239973	23850.11		13C2-PFHxA	5.110	156517	4.8800	ng/ml			
13C2-PFDoA	8.136	77481	7029.49		13C2-PFDA	7.262	82873	1.2168	ng/ml			
13C4-PFHpA	5.789	203652	16314.42		13C2-PFHxA	5.110	156517	2.3540	ng/ml			
13C4-PFBA	2.631	263790	57716.12		13C3-PFBA	2.634	123718	9.7603	ng/ml	✔	3	AMS 05/29/24
13C3-PFHxS	6.496	46786	9473.76		18O2-PFHxS	6.495	47139	2.4185	ng/ml			
402.0 -> 99.0			5679.41	52.2								
13C3-PFBS	5.120	70206	16054.47		18O2-PFHxS	6.495	47139	2.5079	ng/ml			
301.9 -> 98.9			8201.74	37.1								
13C3-HFPODA	5.375	188400	36946.11		13C2-PFHxA	5.110	156517	9.9059	ng/ml			
287.0 -> 185.0			9072.89	44.9								
13C2-PFTeDA	8.950	100189	25171.78		13C2-PFDA	7.262	82873	1.1668	ng/ml			
D9-NEtFOSE	10.219	237740	46762.62		13C4-PFOS	7.492	46288	23.6889	ng/ml			
D3-NMeFOSA	10.034	22891	18613.21		13C4-PFOS	7.492	46288	2.2587	ng/ml			
D3-NMeFOSAA	7.266	169661	34962.33		13C4-PFOS	7.492	46288	4.9320	ng/ml			
D5-NEtFOSA	10.354	24125	10328.79		13C4-PFOS	7.492	46288	2.3384	ng/ml			
D5-NEtFOSAA	7.461	82610	13467.60		13C4-PFOS	7.492	46288	4.7967	ng/ml			
D7-NMeFOSE	9.881	217469	88460.67		13C4-PFOS	7.492	46288	23.1875	ng/ml			

11Cl-PF3OUdS



13C2-4:2FTS - ISTD



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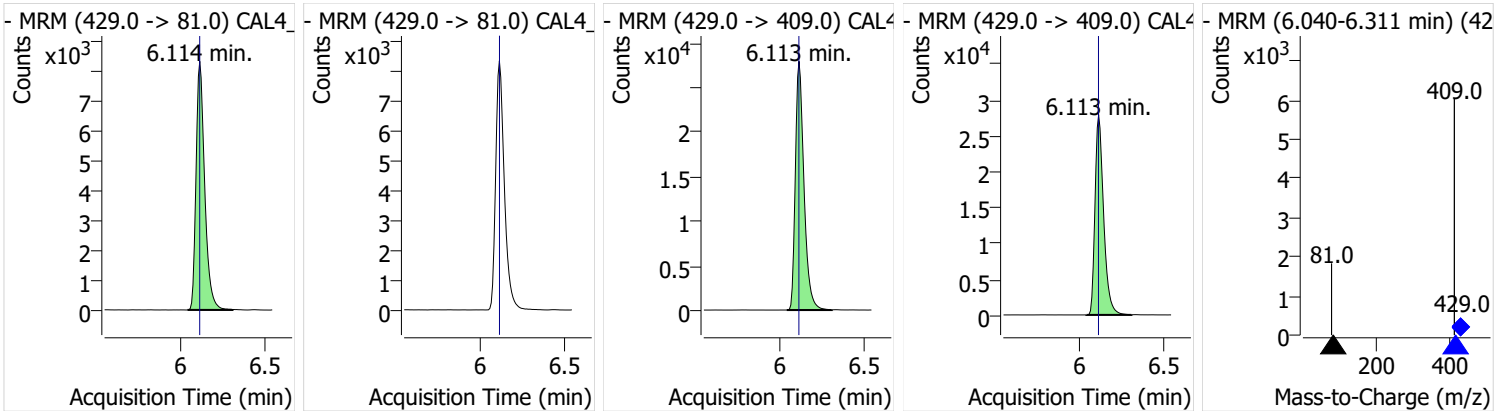
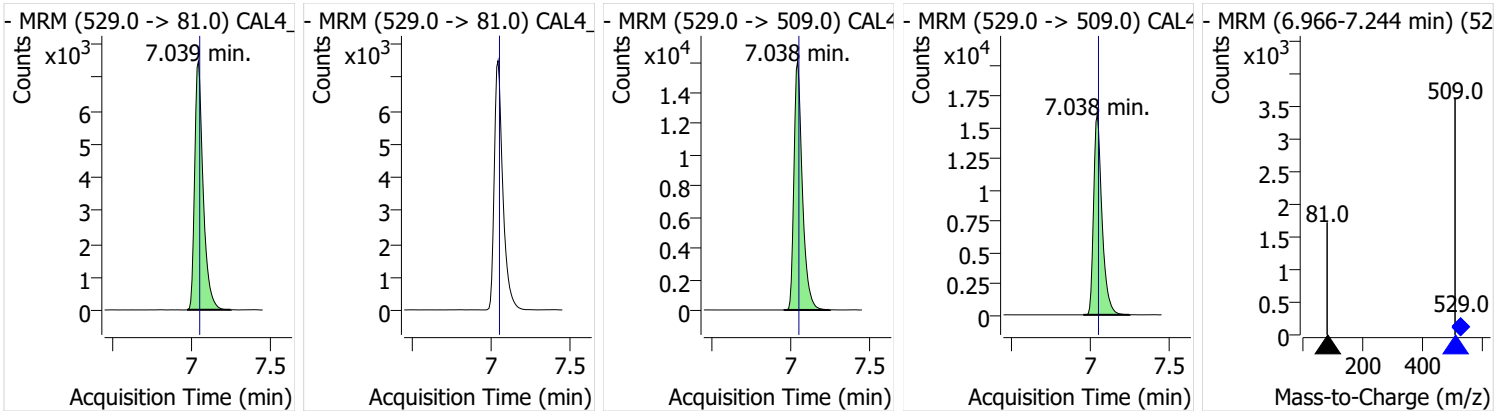
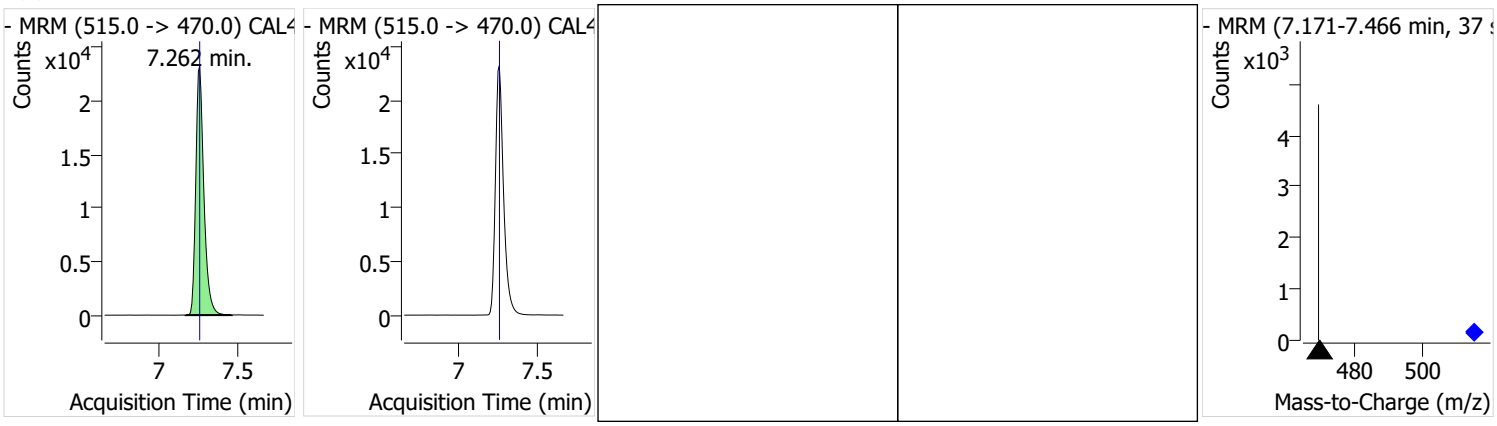


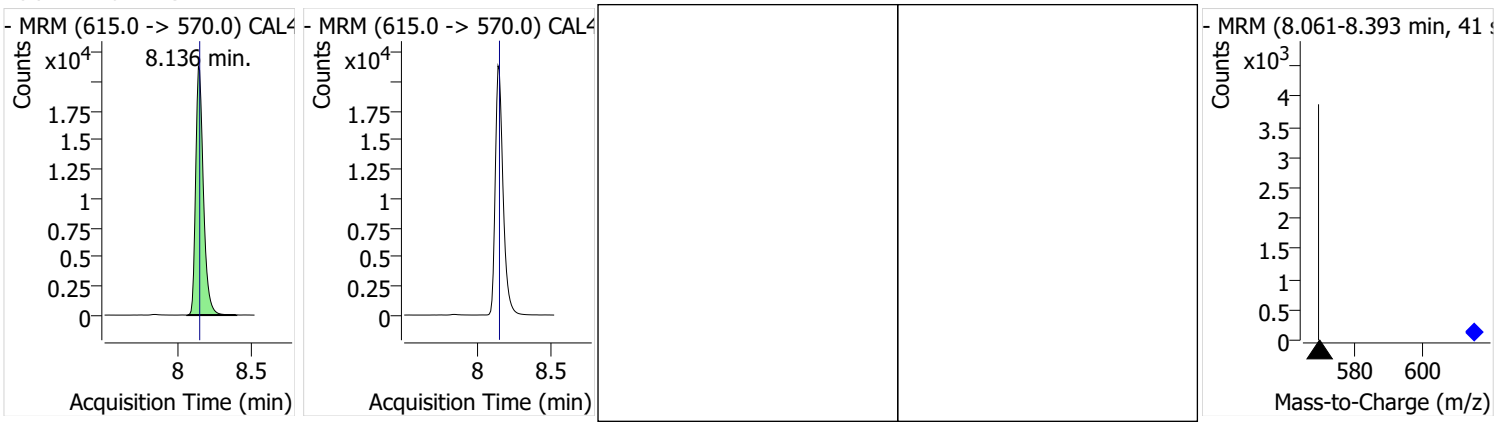
13C2-8:2FTS - ISTD



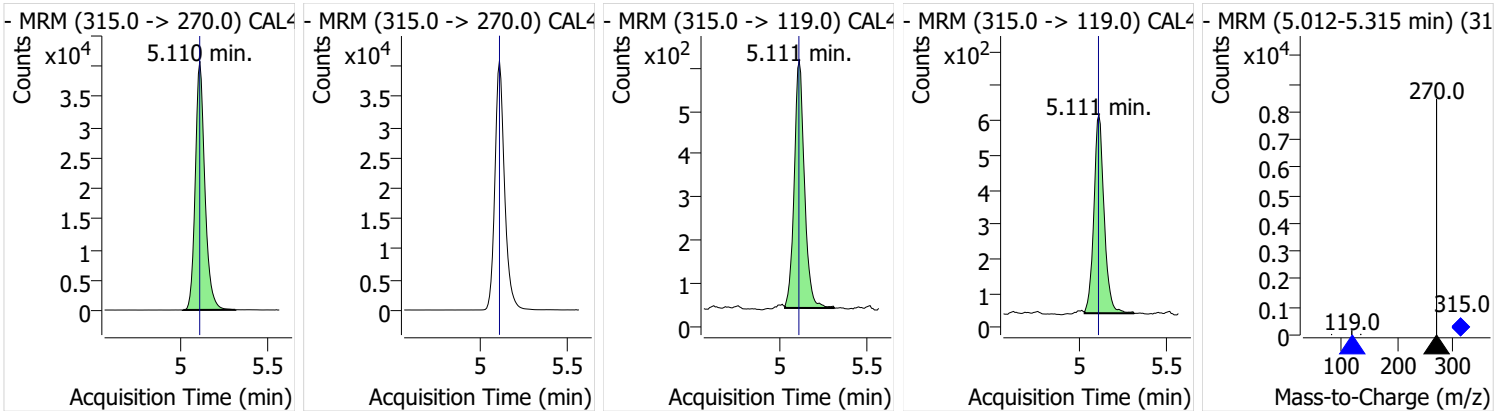
13C2-PFDA



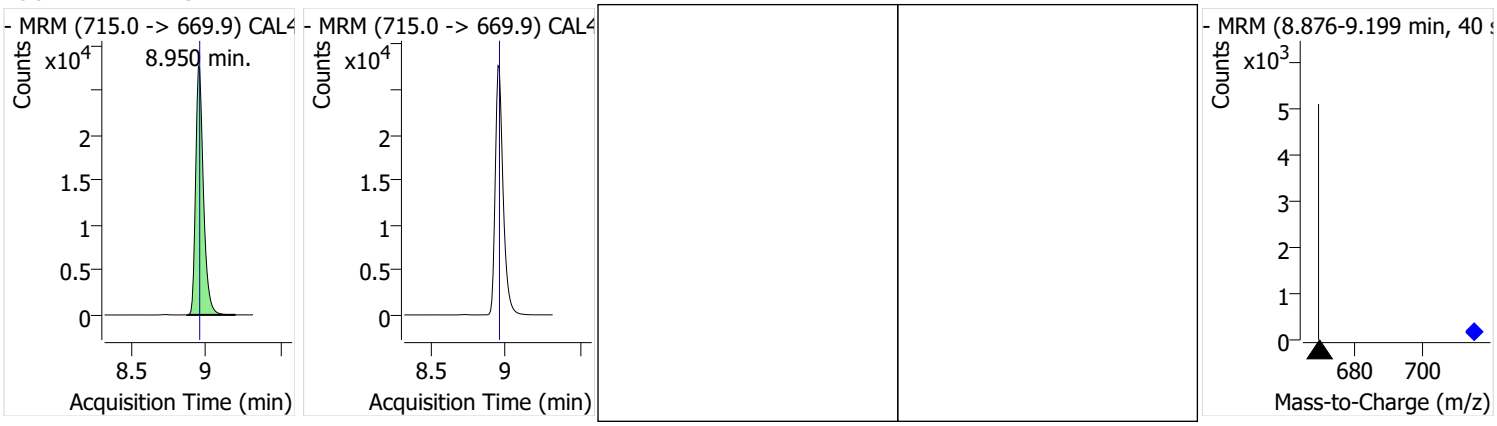
13C2-PFDoA - ISTD



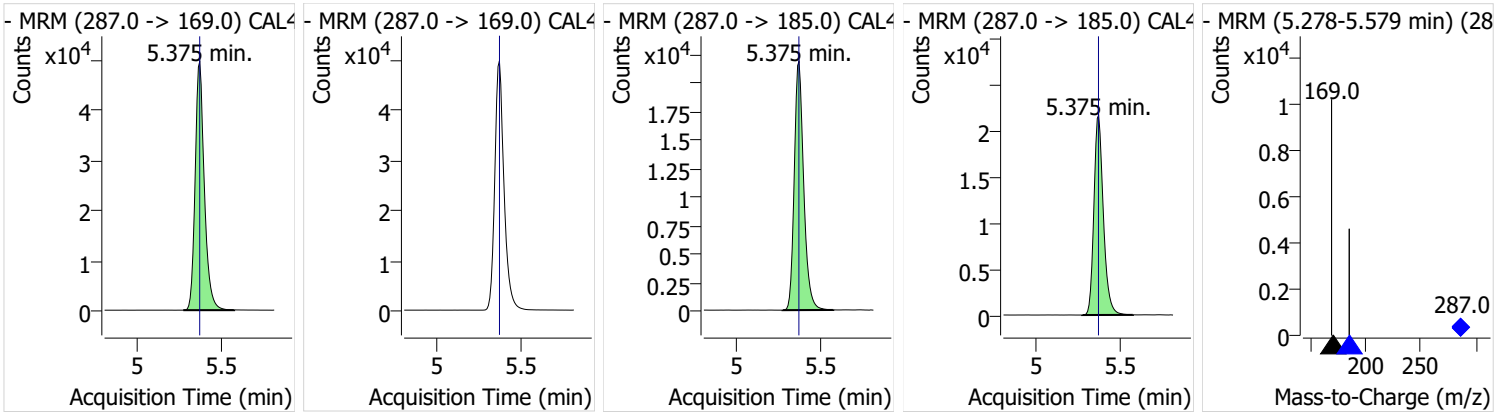
13C2-PFHxA



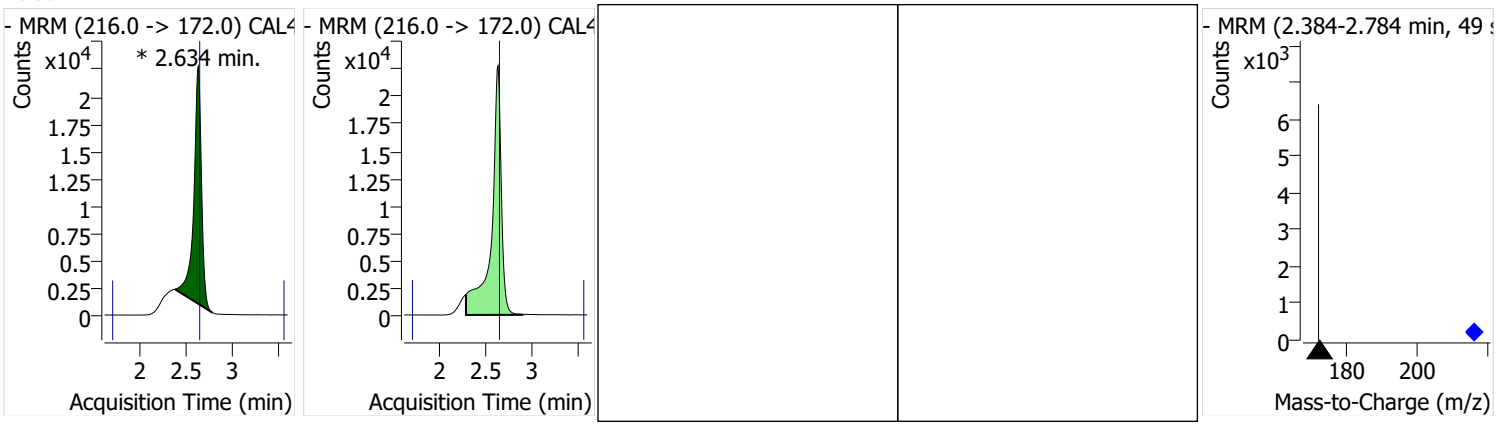
13C2-PFTeDA - ISTD



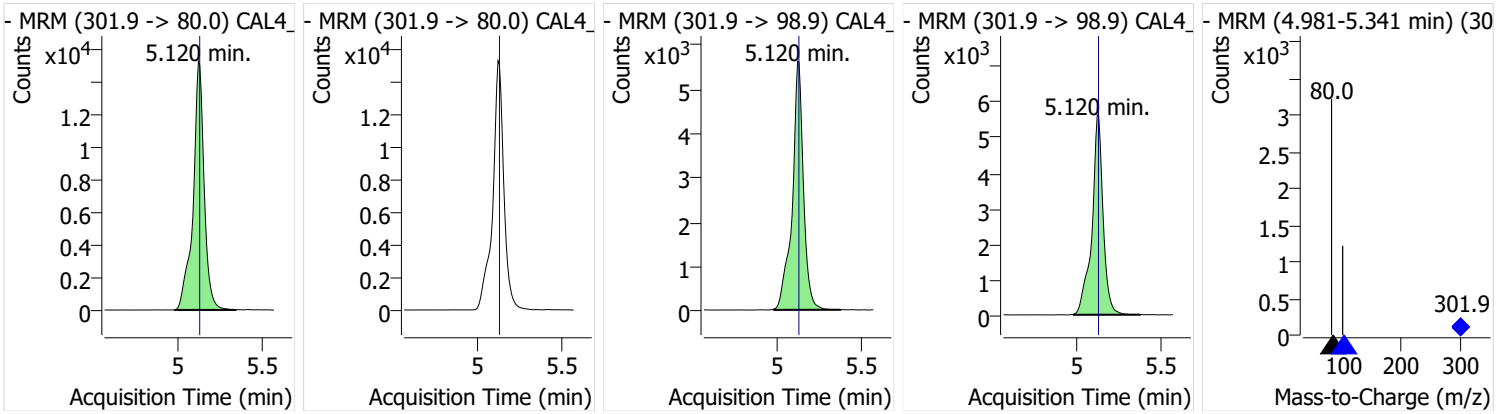
13C3-HFPODA - ISTD



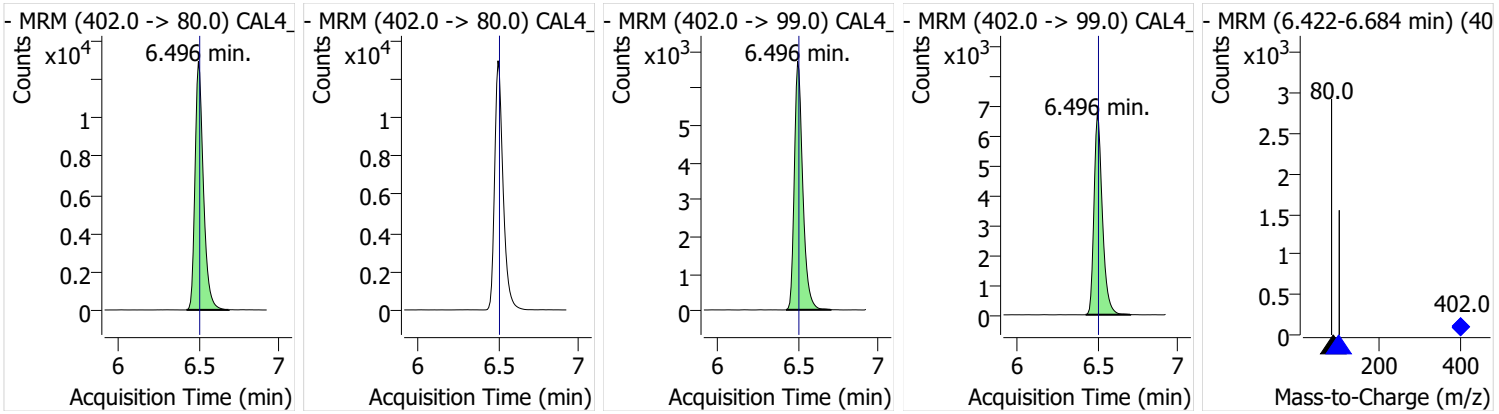
13C3-PFBA



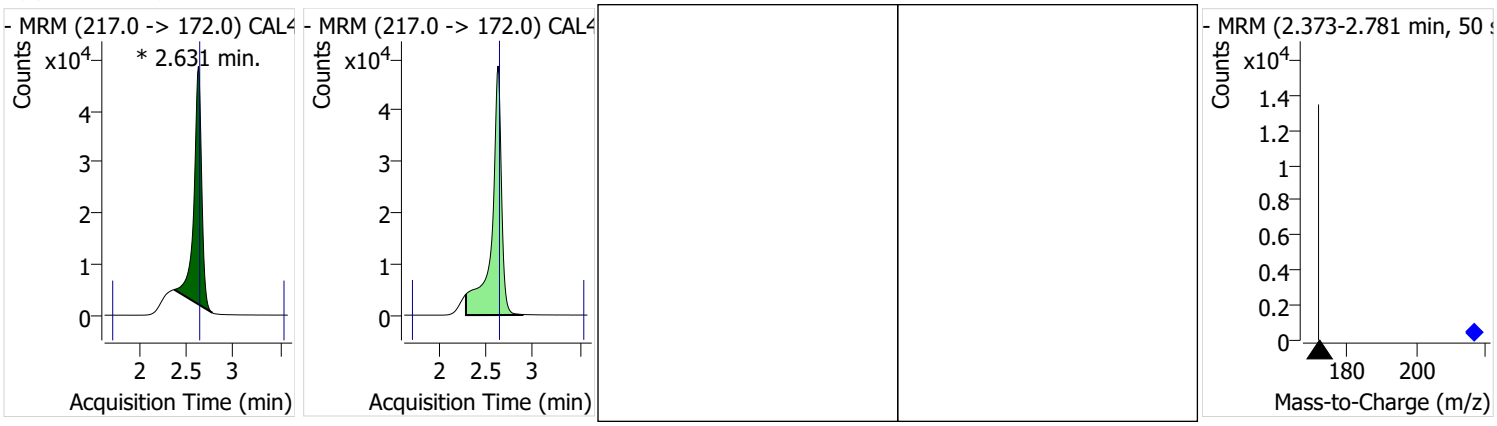
13C3-PFBS - ISTD



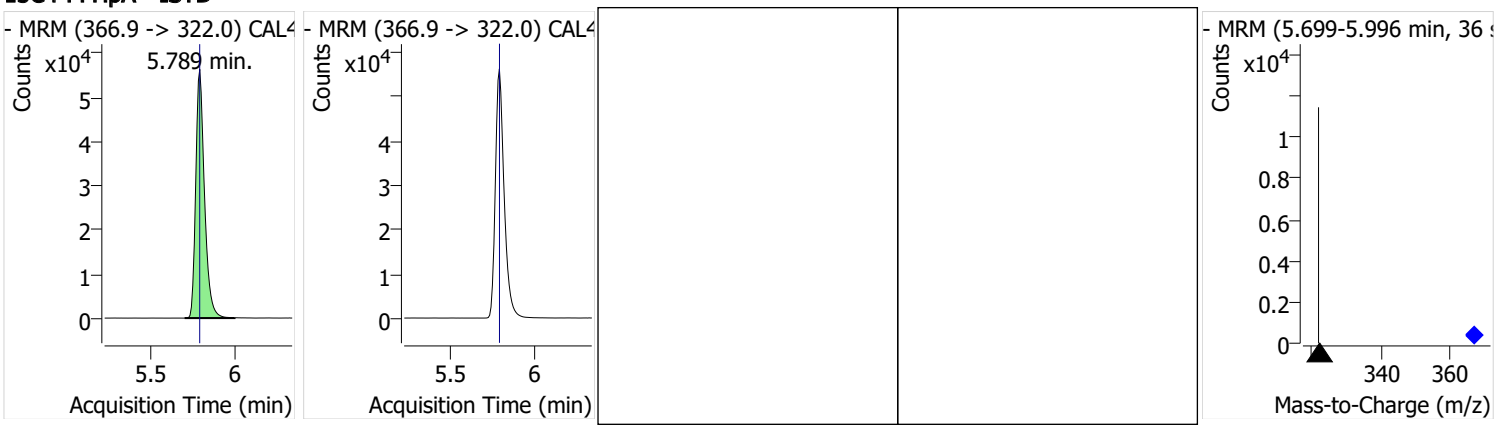
13C3-PFHxS - ISTD



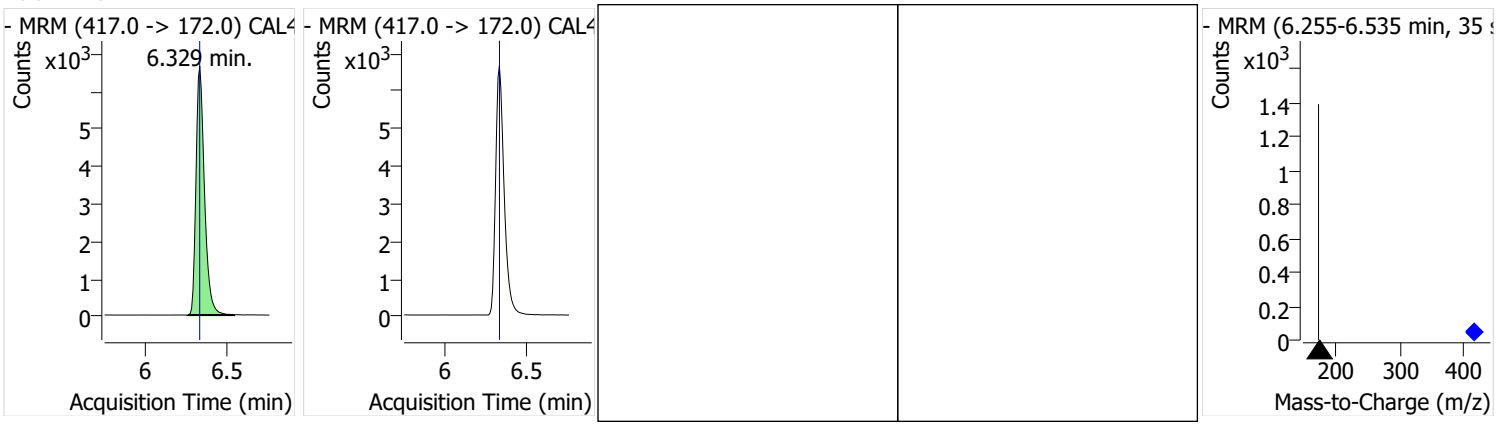
13C4-PFBA - ISTD



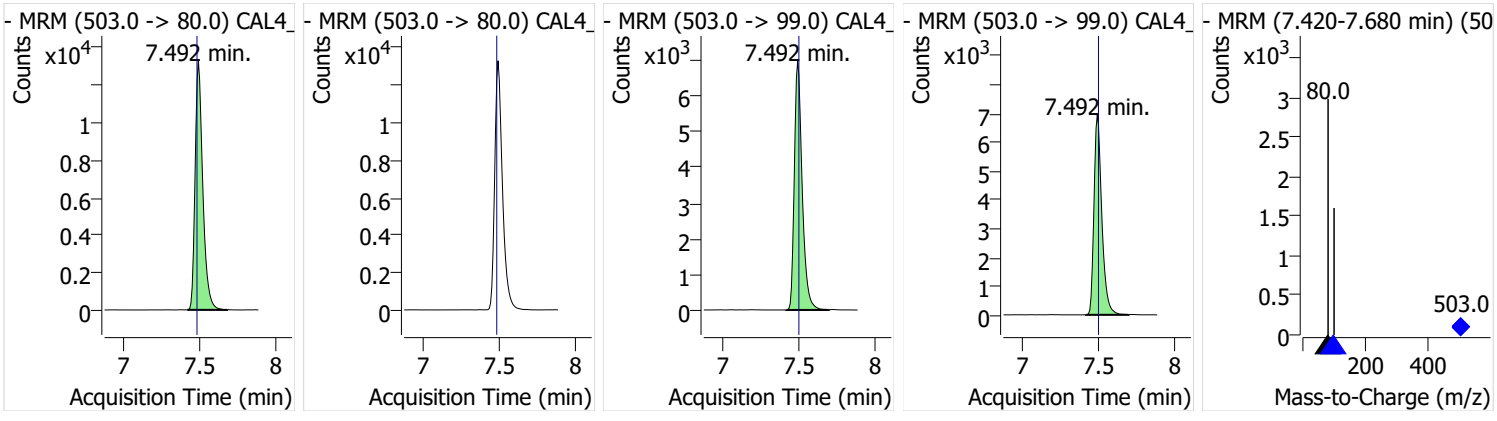
13C4-PFHpA - ISTD



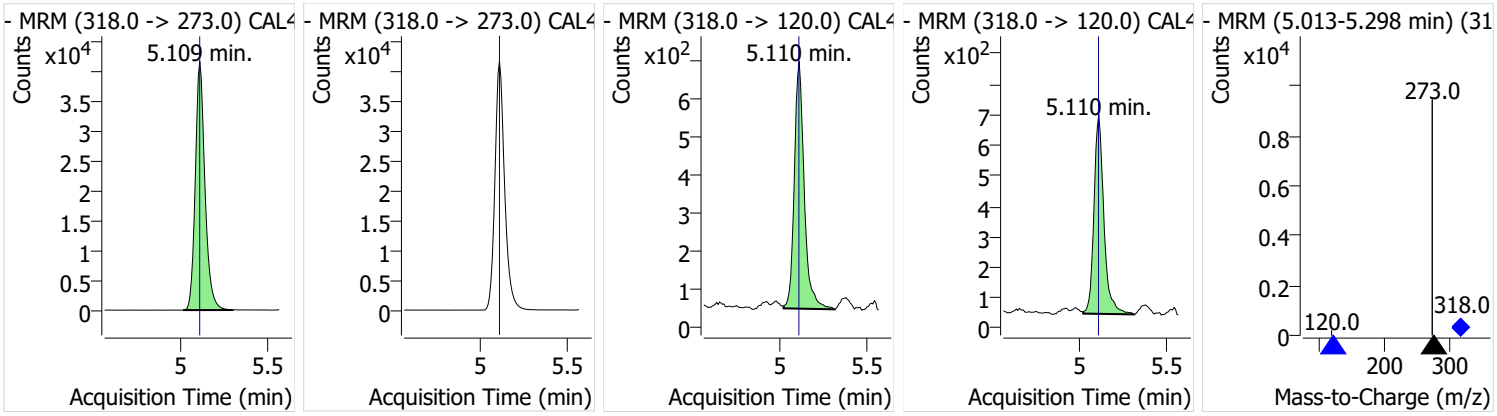
13C4-PFOA



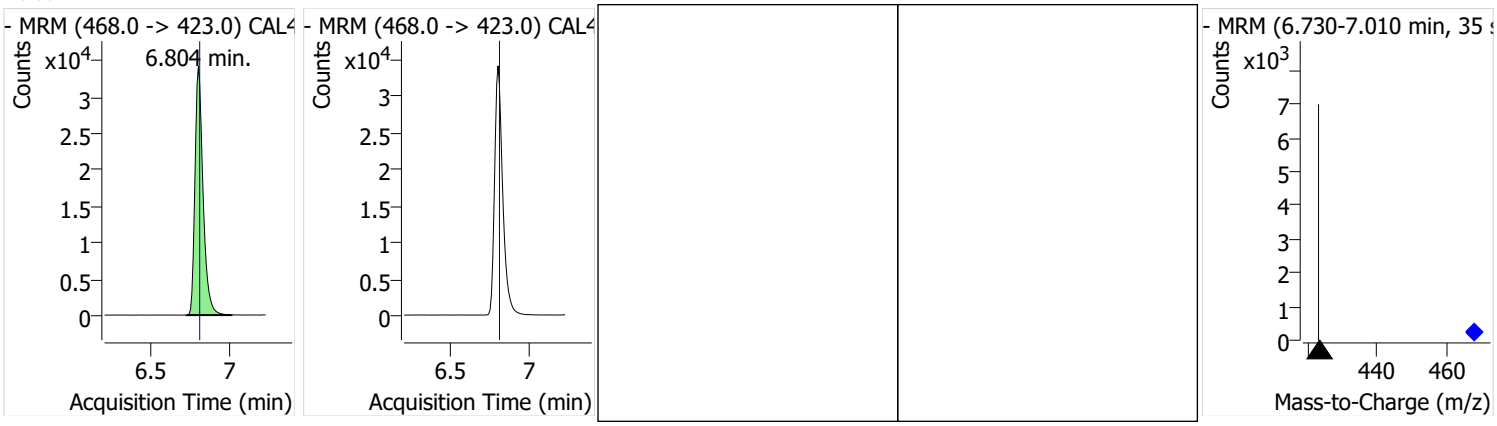
13C4-PFOS



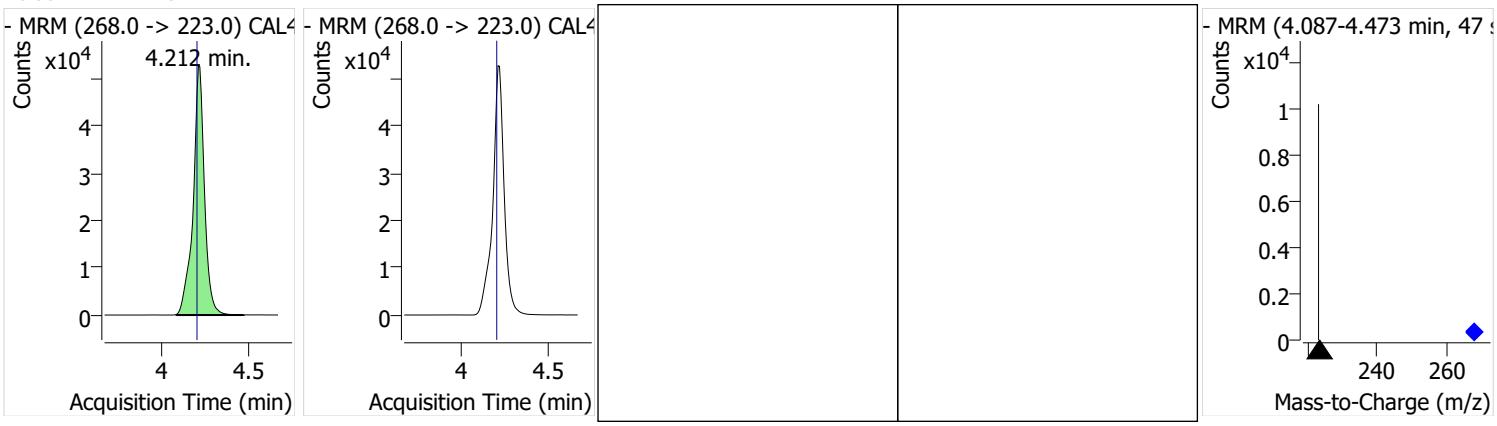
13C5-PFHxA - ISTD



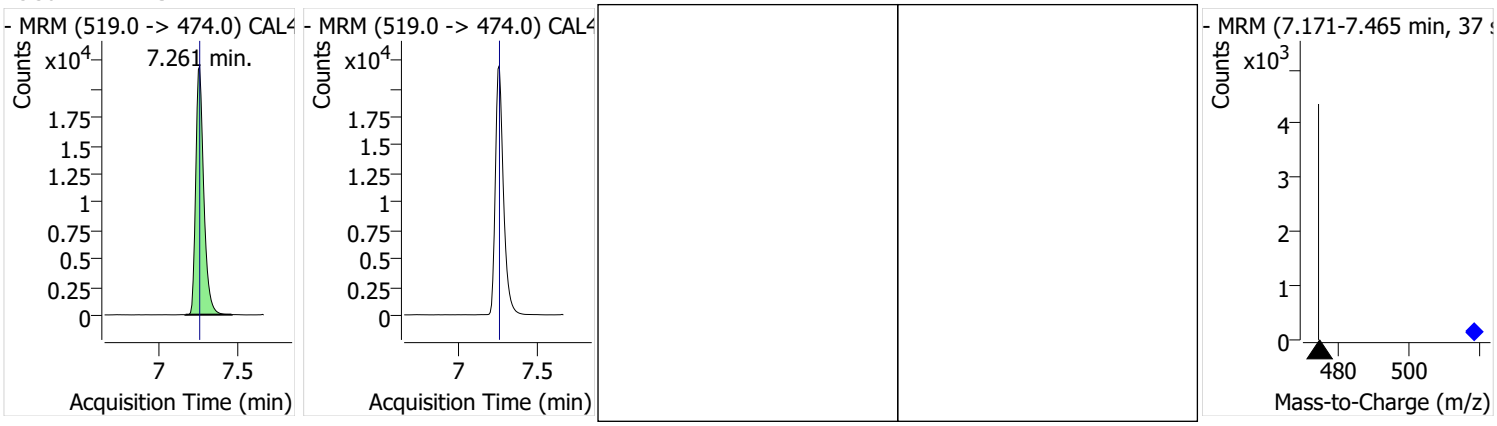
13C5-PFNA



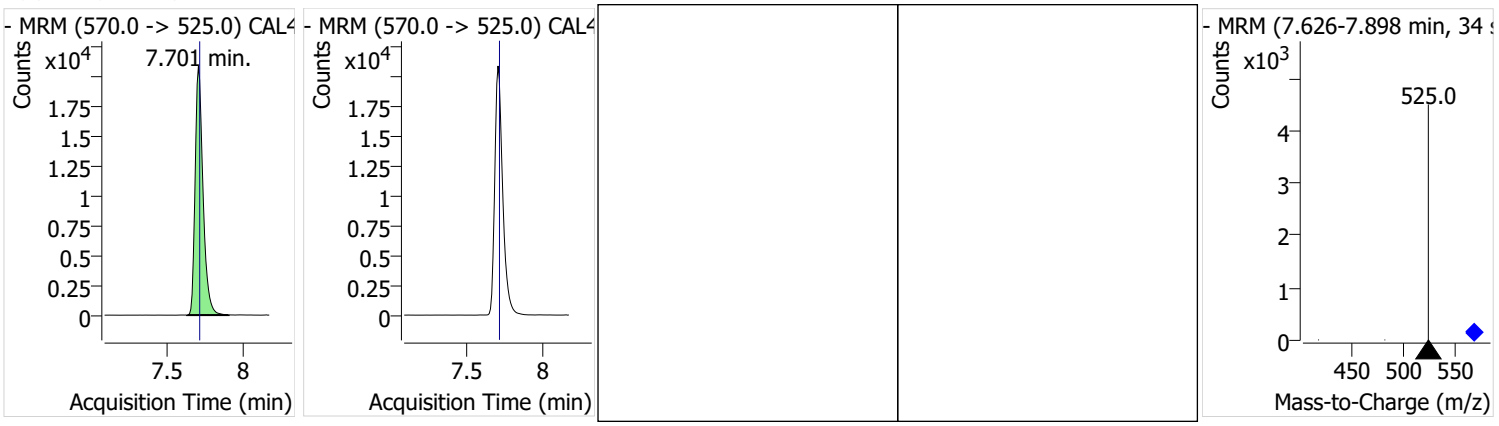
13C5-PFPeA - ISTD



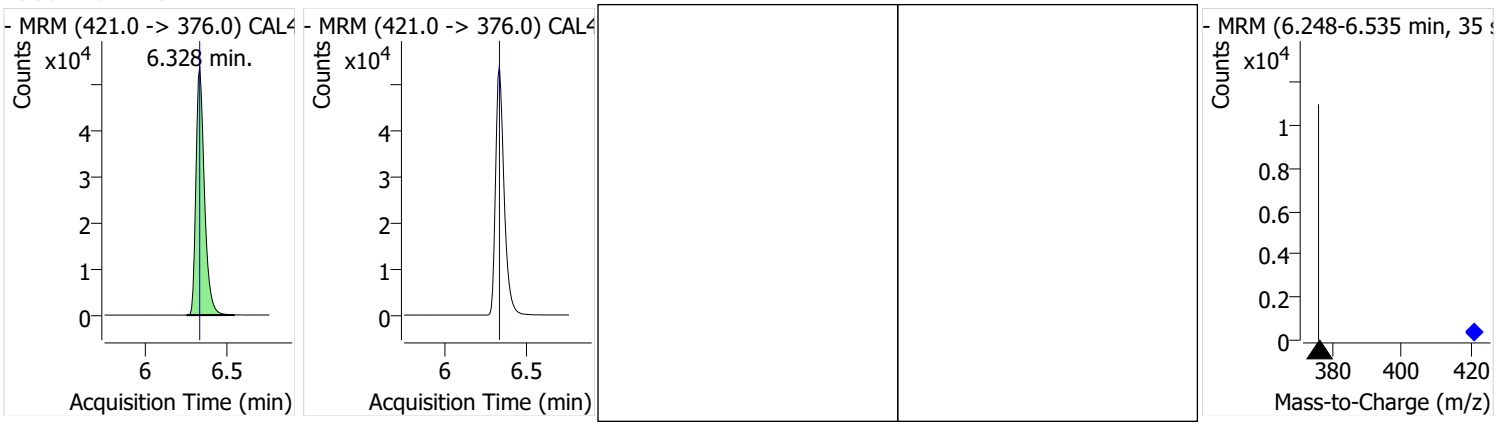
13C6-PFDA - ISTD



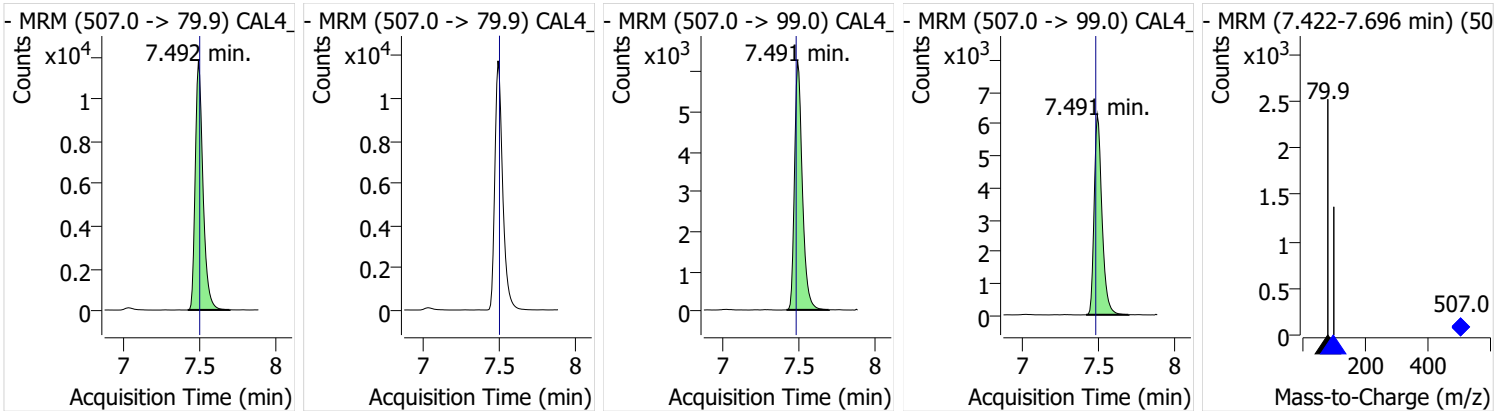
13C7-PFUnA - ISTD



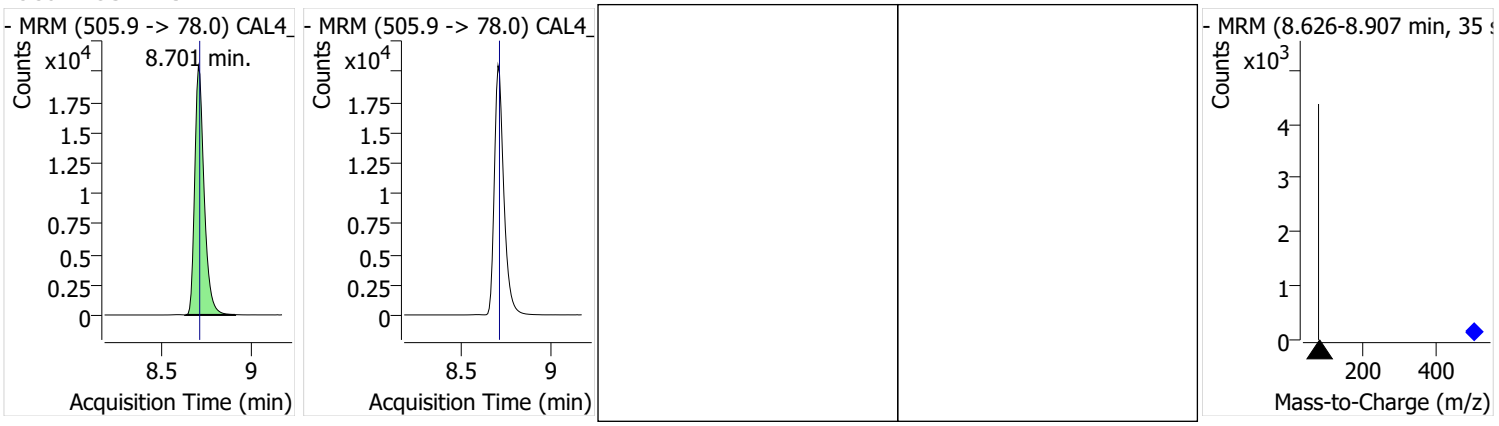
13C8-PFOA - ISTD



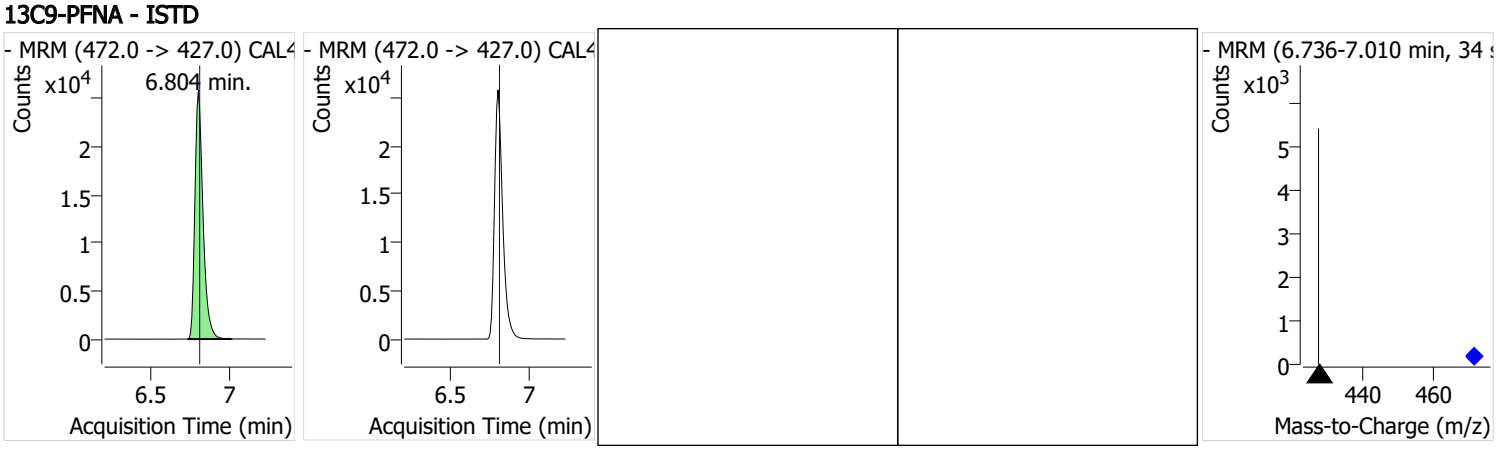
13C8-PFOS - ISTD



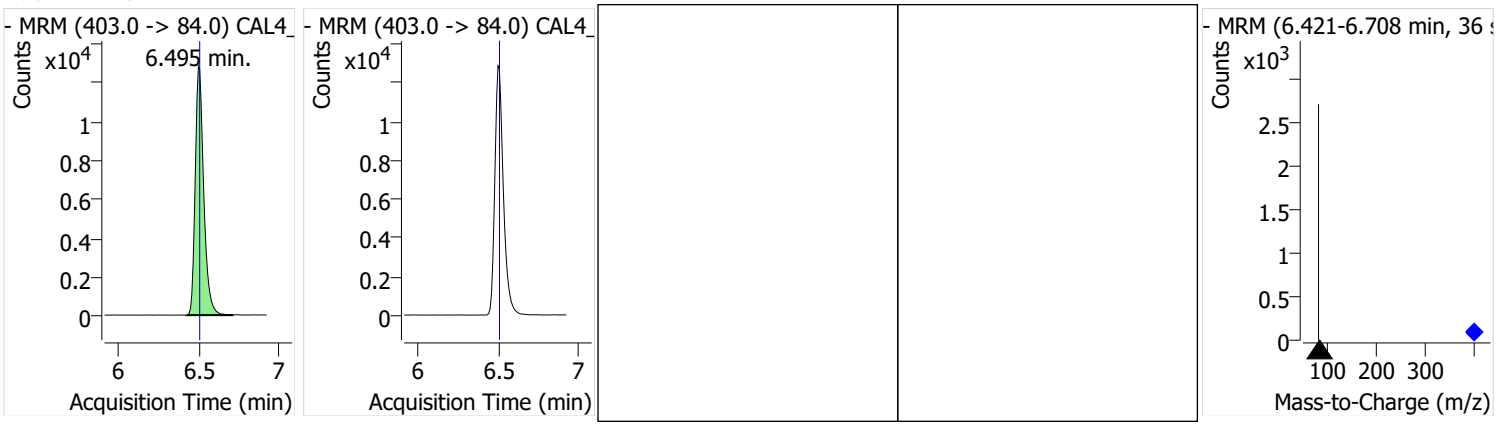
13C8-PFOSA - ISTD



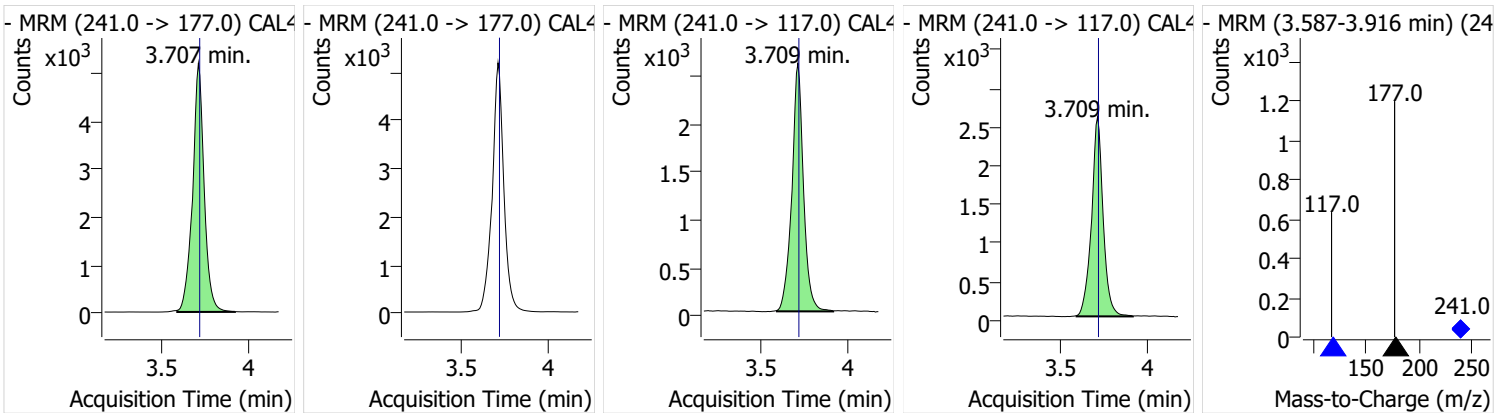
13C9-PFNA - ISTD



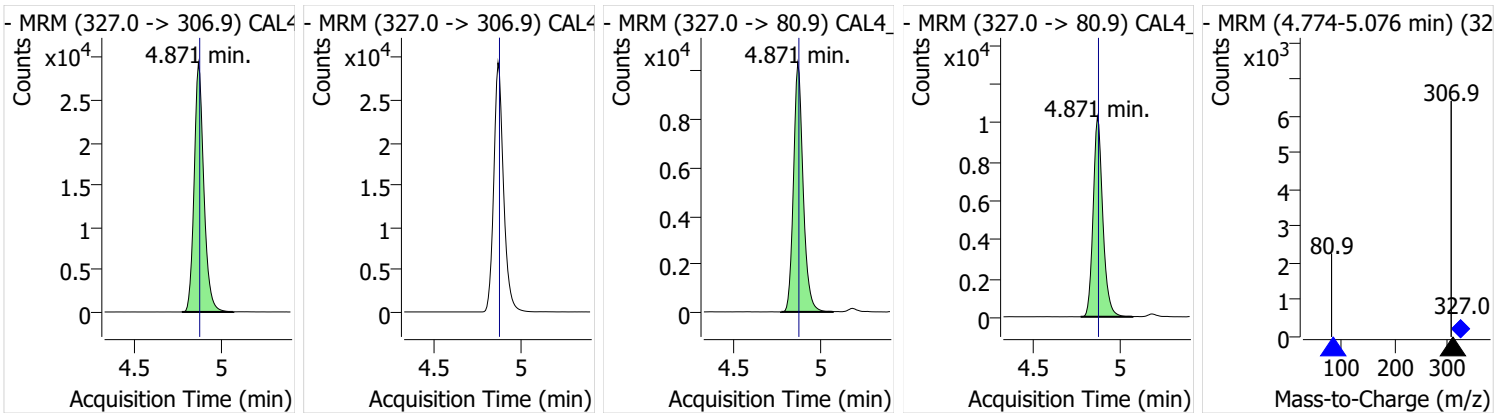
18O2-PFHxS



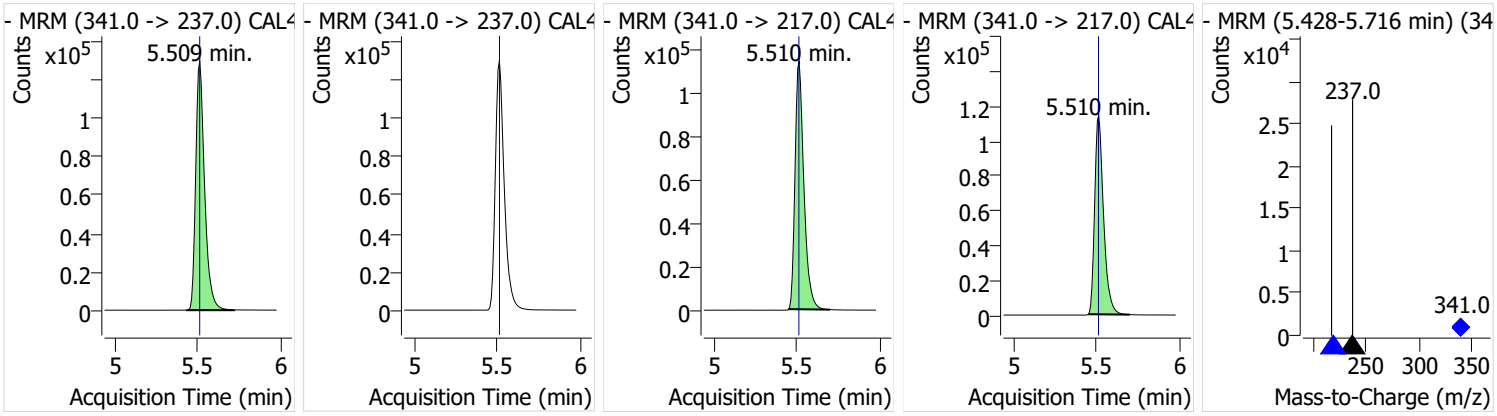
3:3FTCA



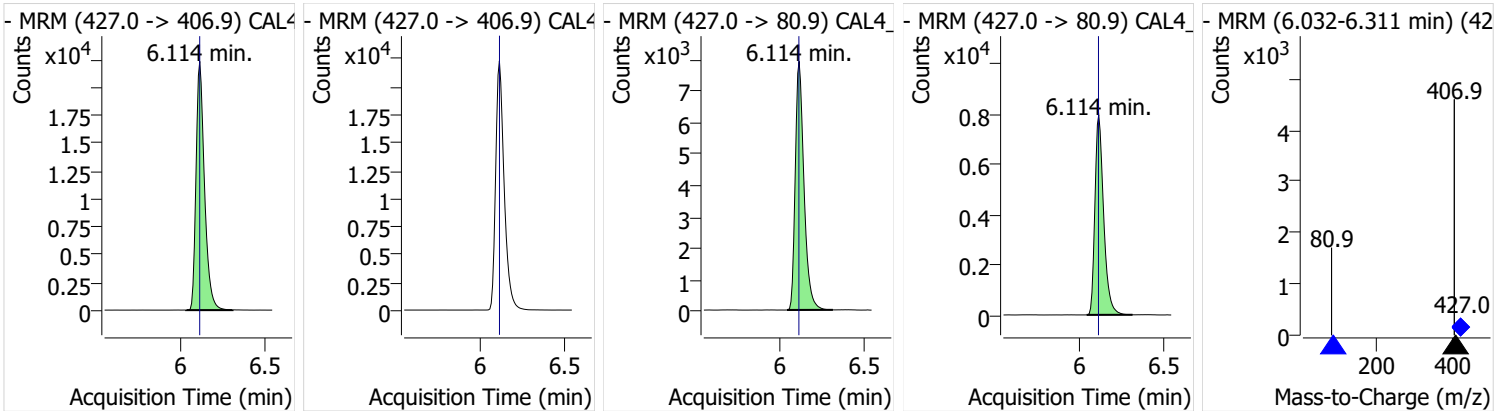
4:2FTS



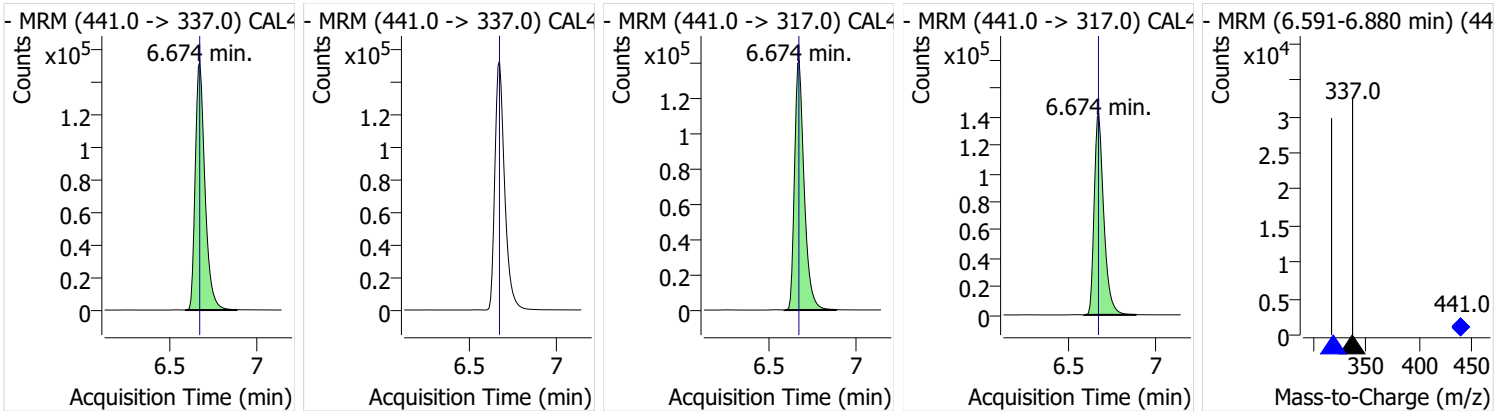
5:3FTCA



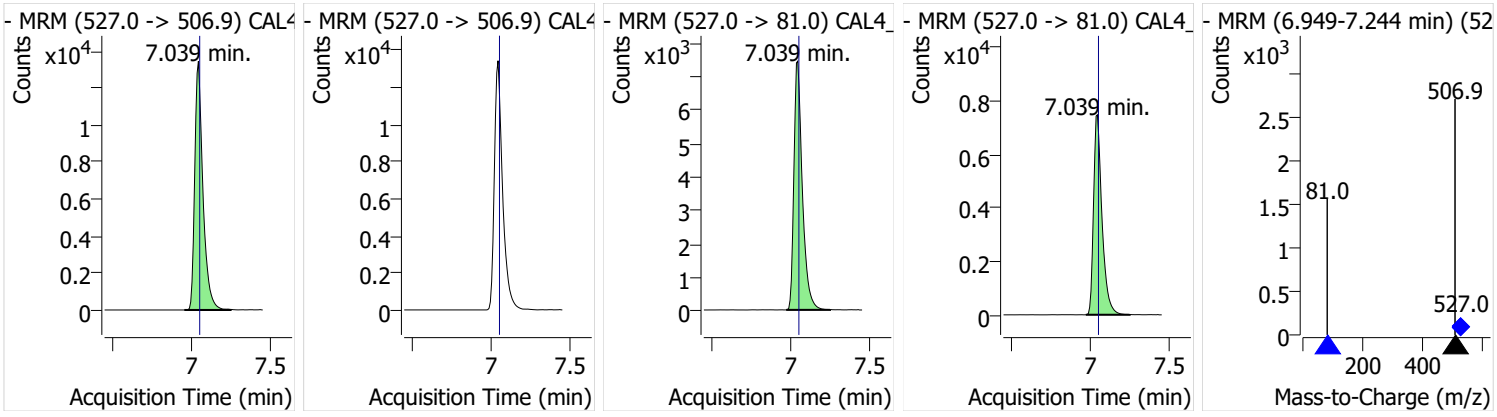
6:2FTS



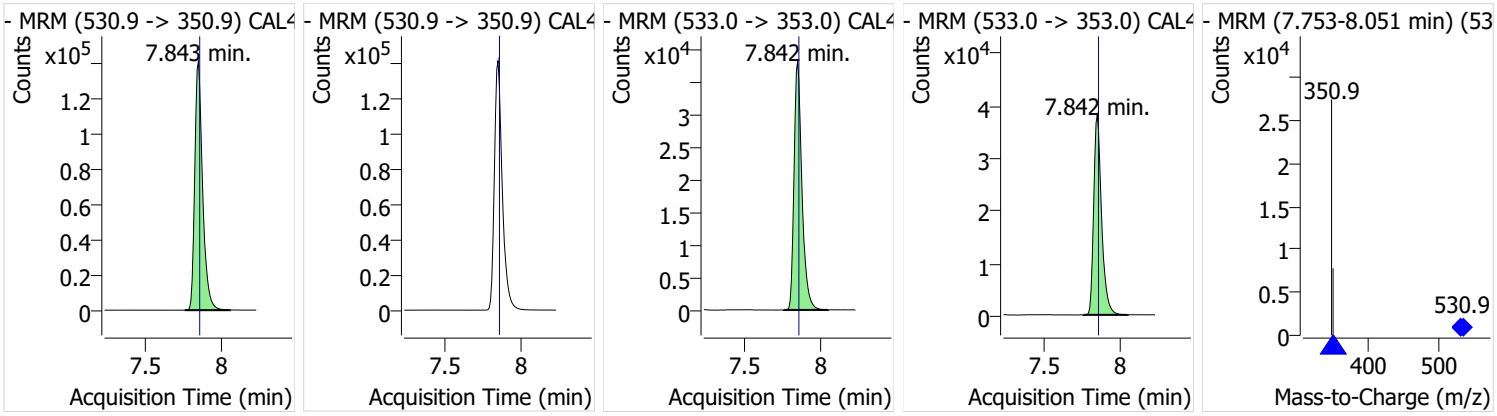
7:3FTCA



8:2FTS



9Cl-PF3ONS



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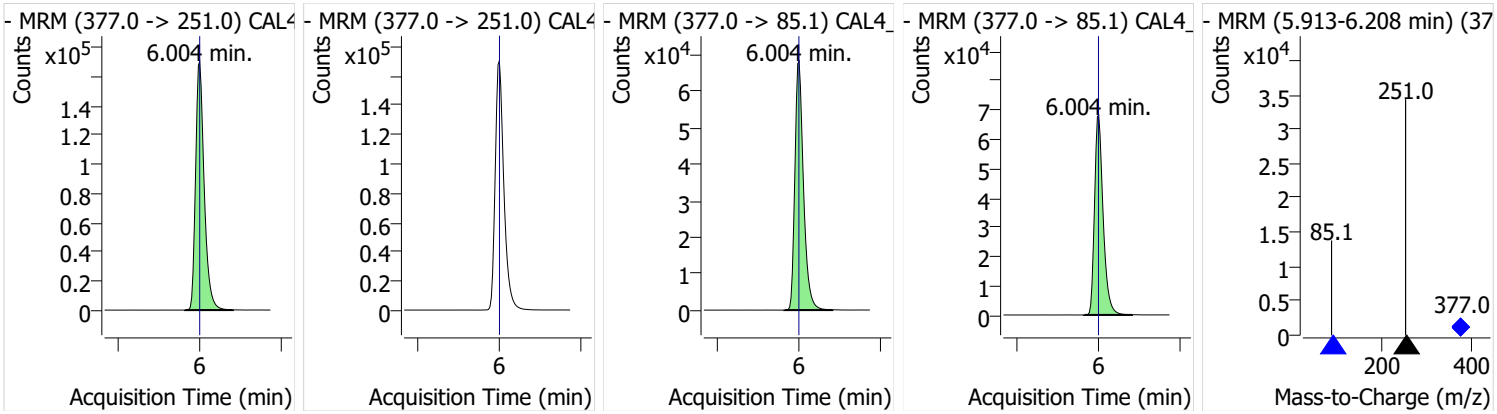
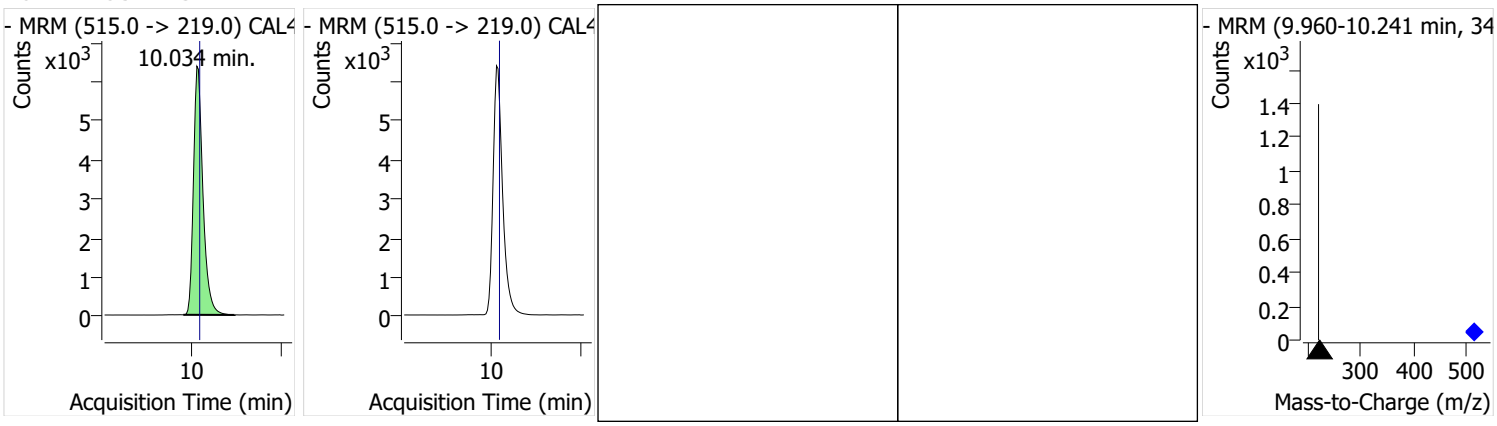
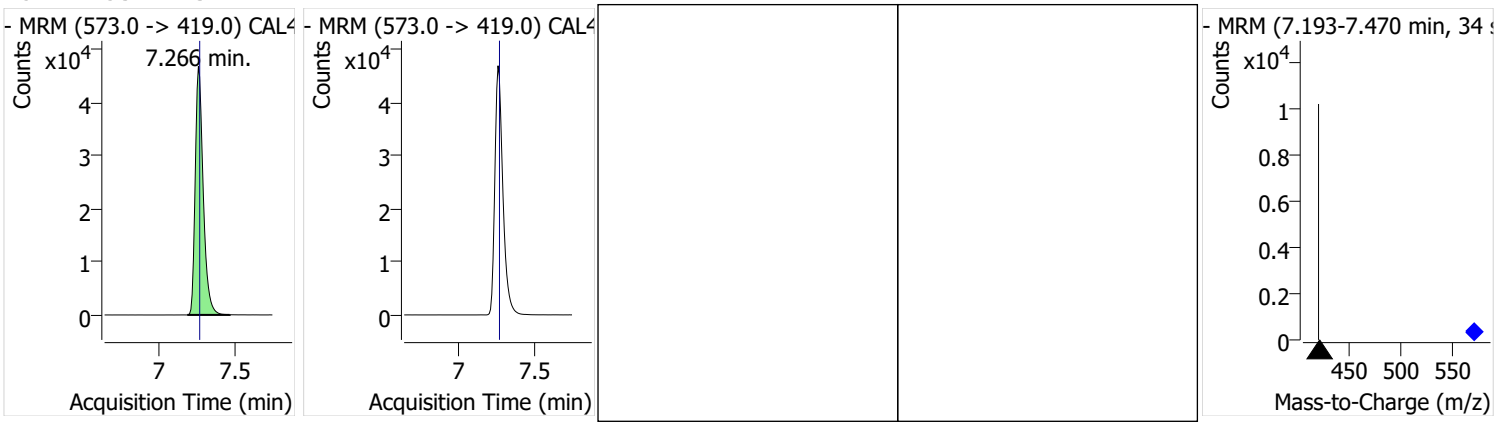


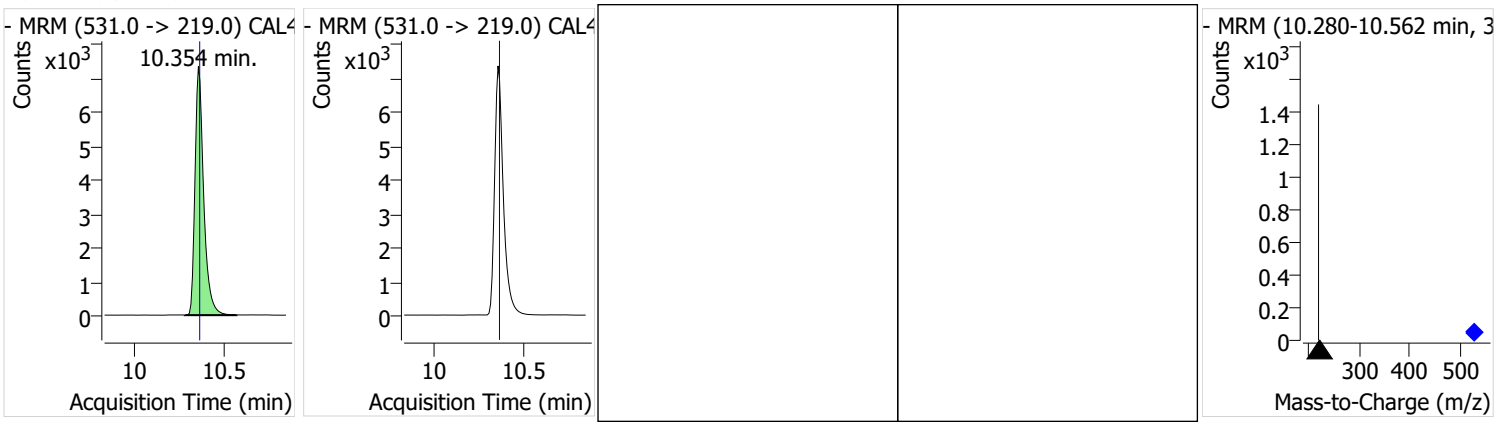
D3-NMeFOSA - ISTD



D3-NMeFOSAA - ISTD



D5-NEtFOSA - ISTD



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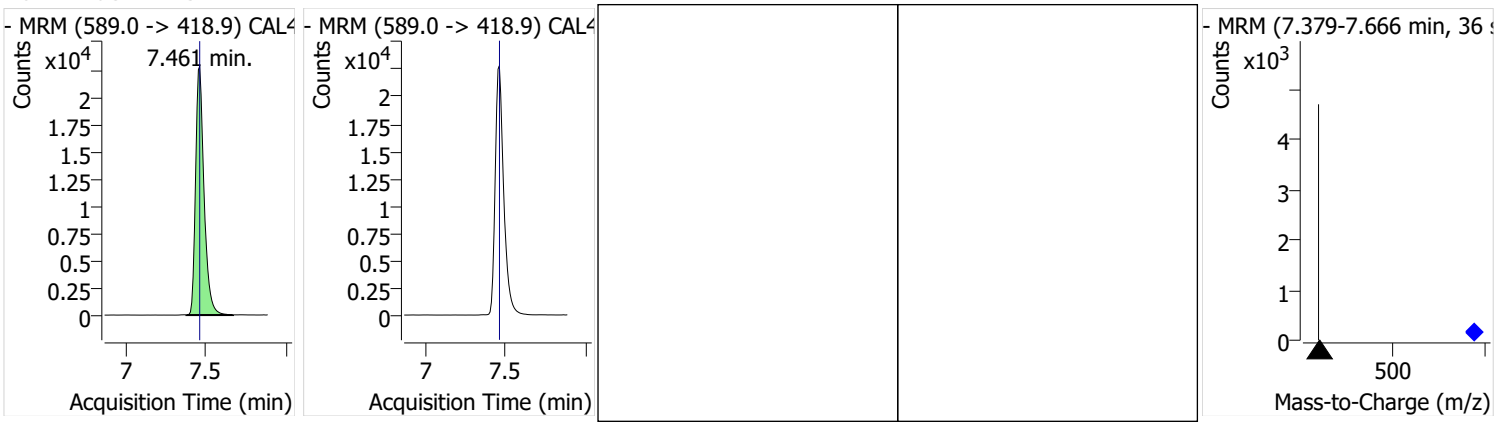
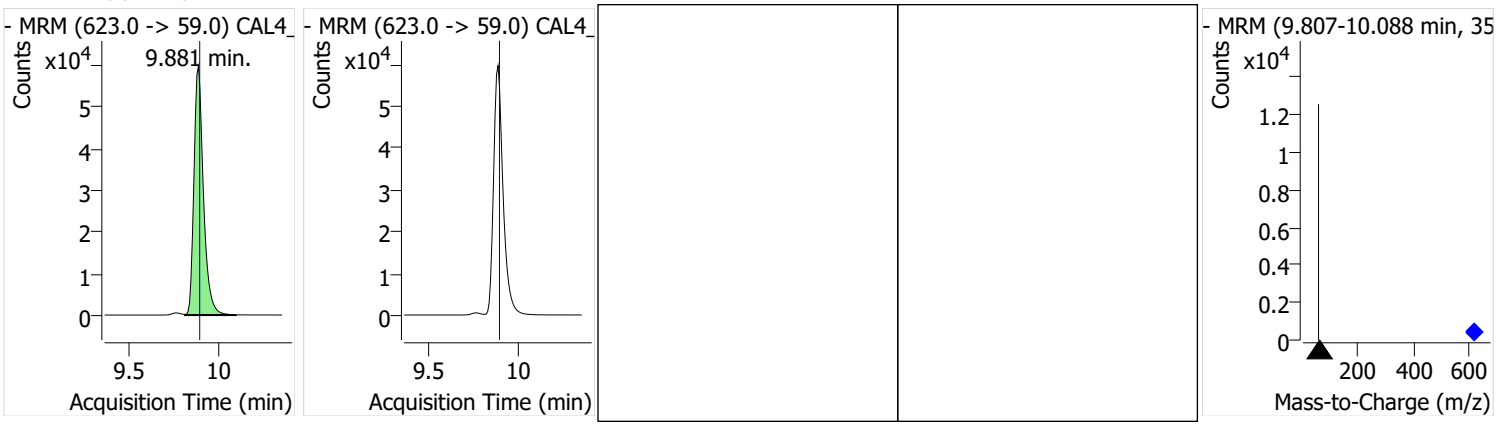
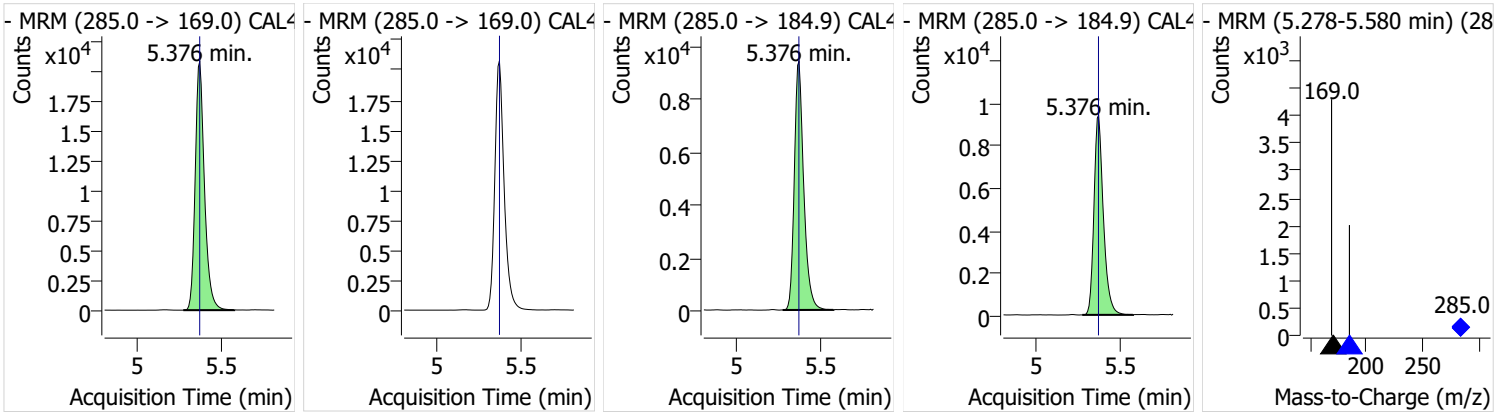


D7-NMeFOSE - ISTD



D9-NEtFOSE - ISTD

HFPO-DA



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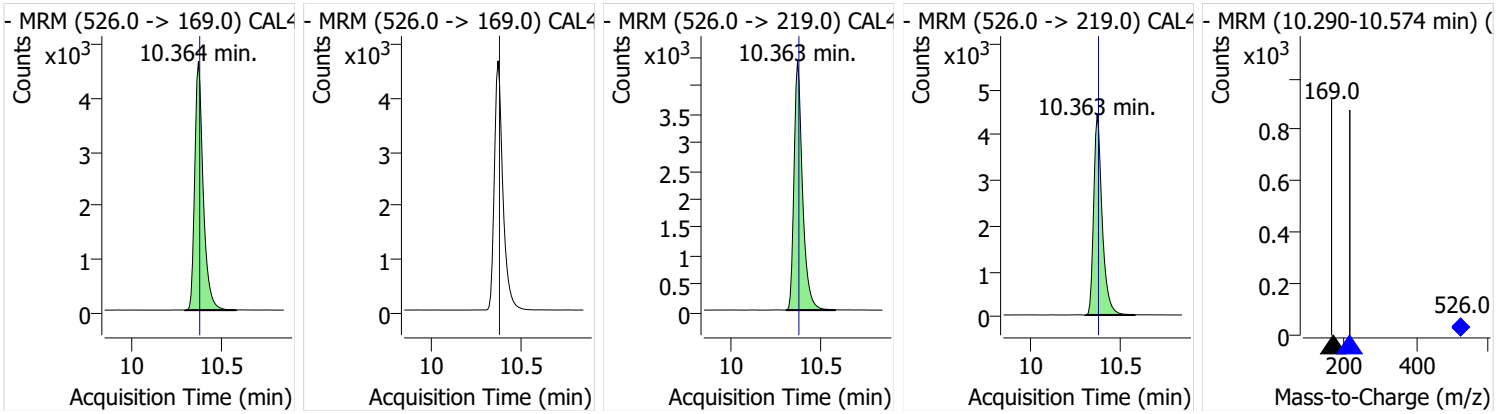

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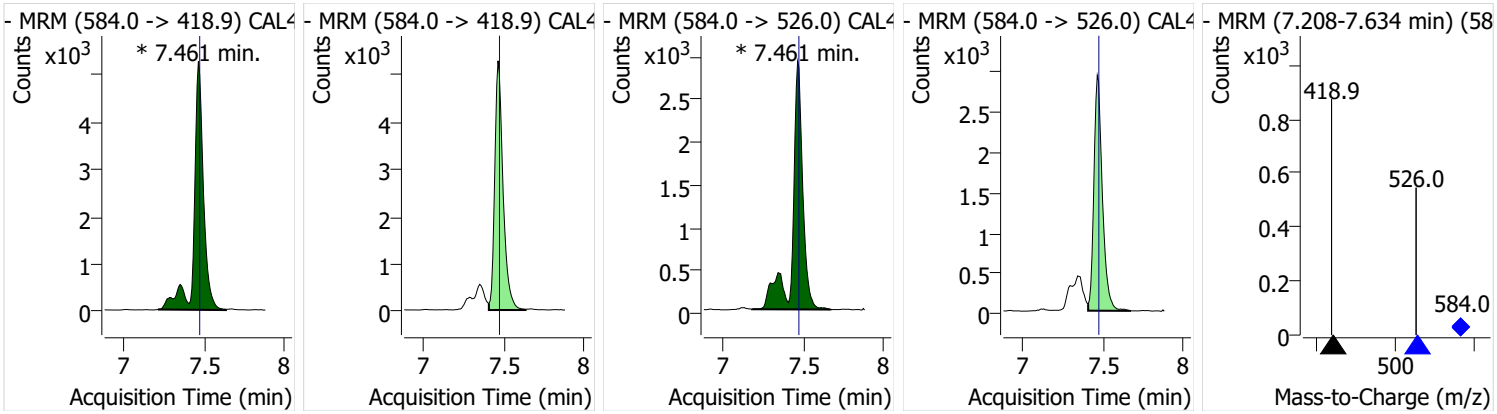

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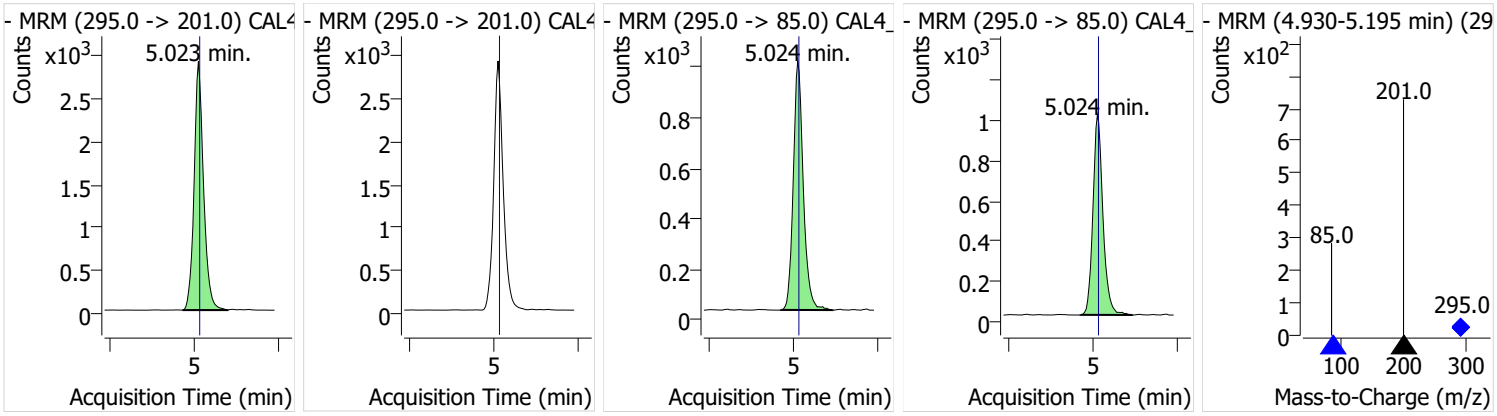

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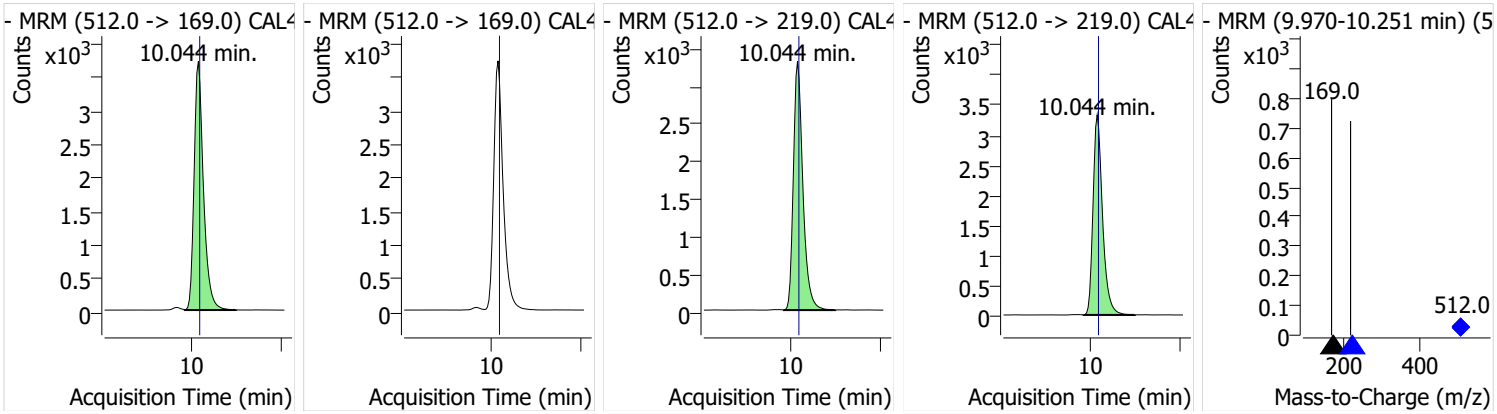

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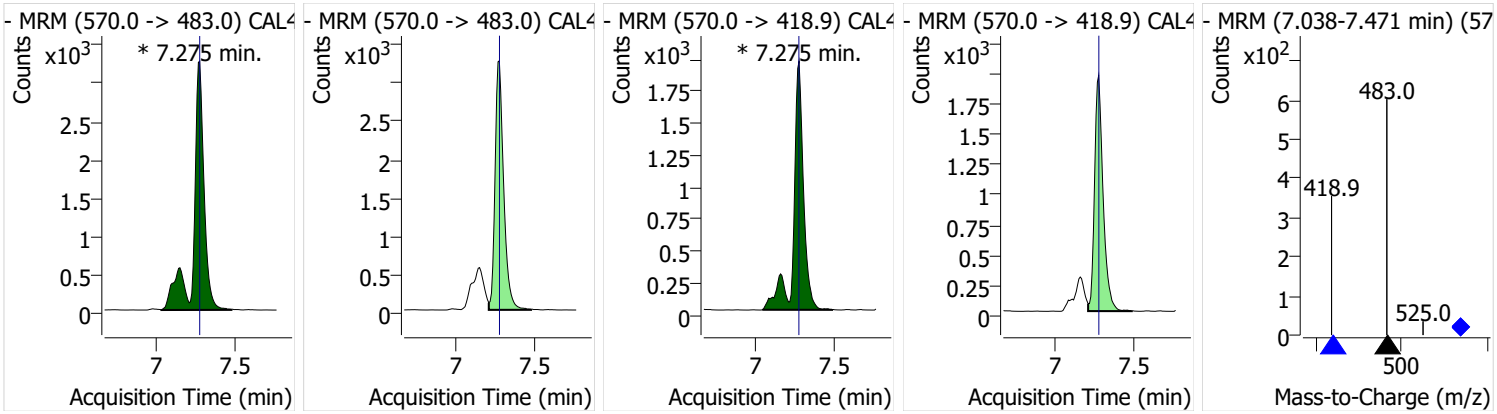

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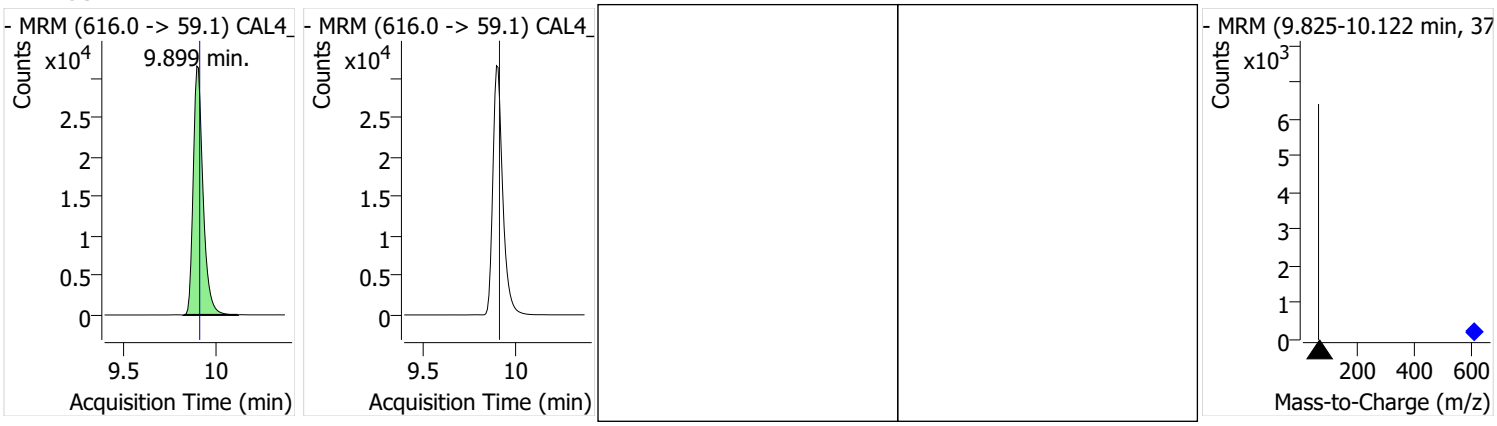

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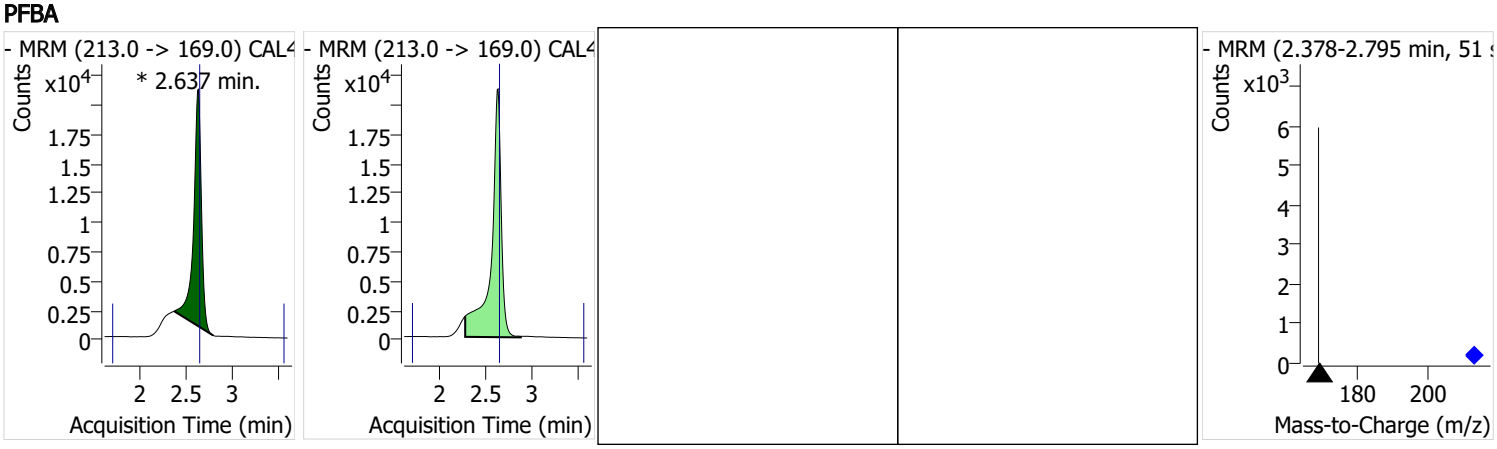

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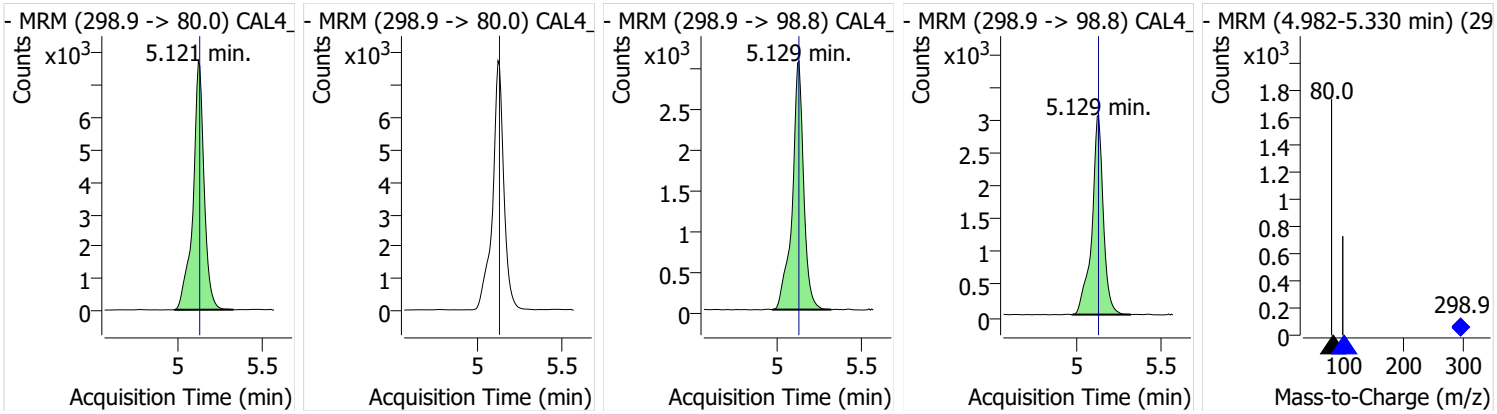

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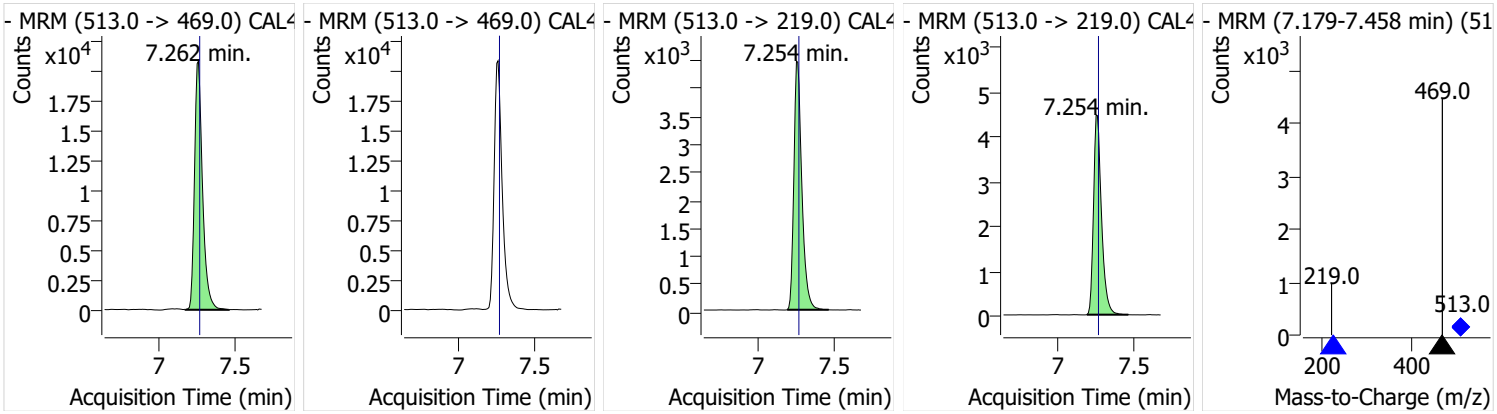

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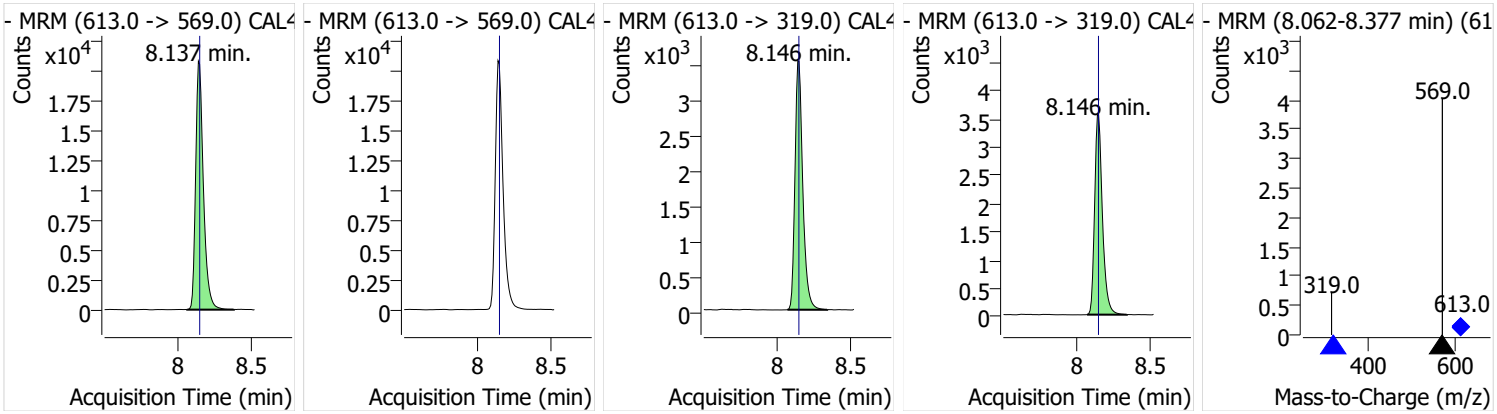

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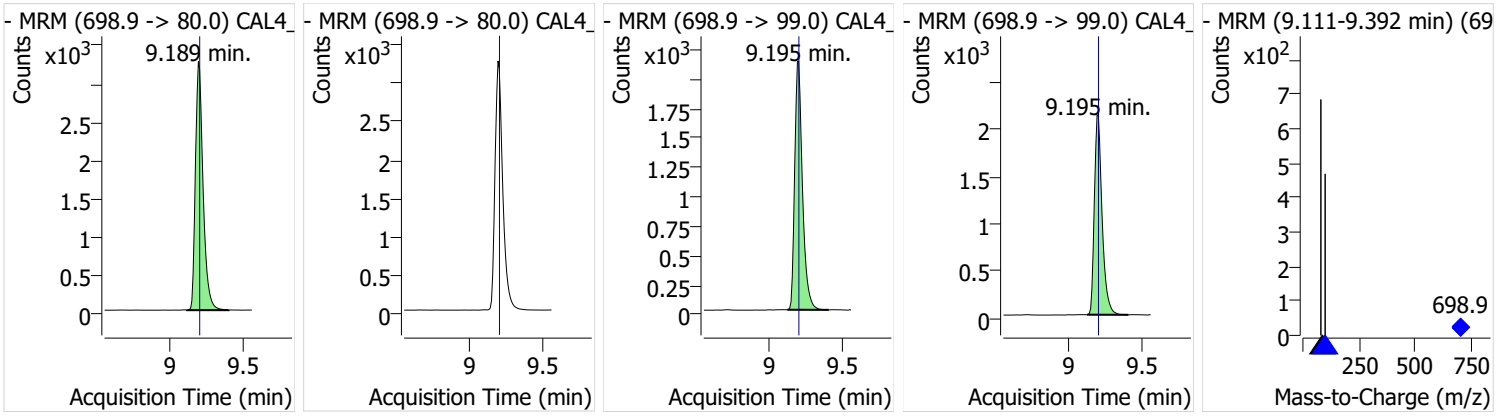

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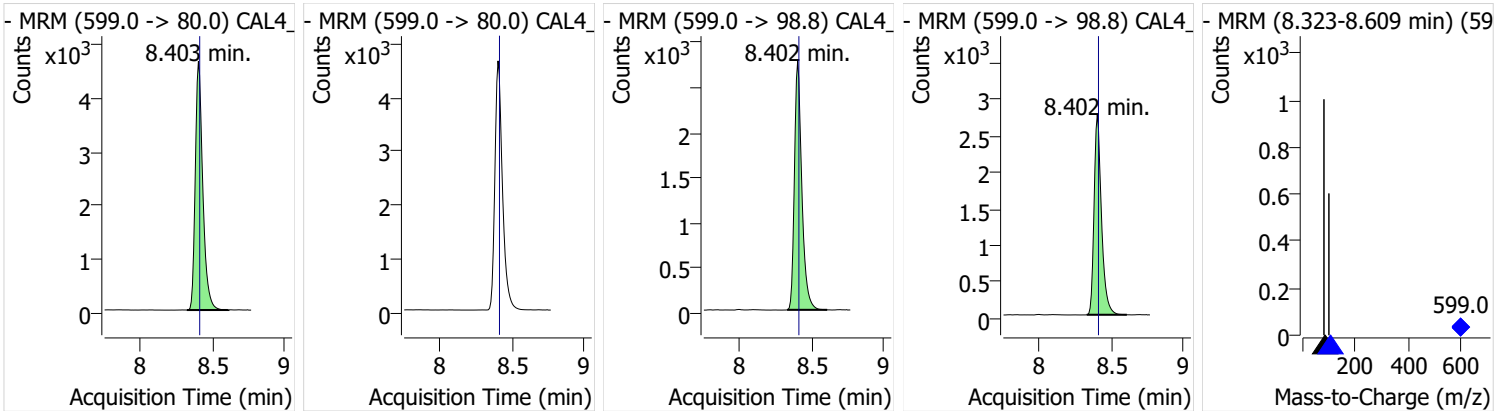

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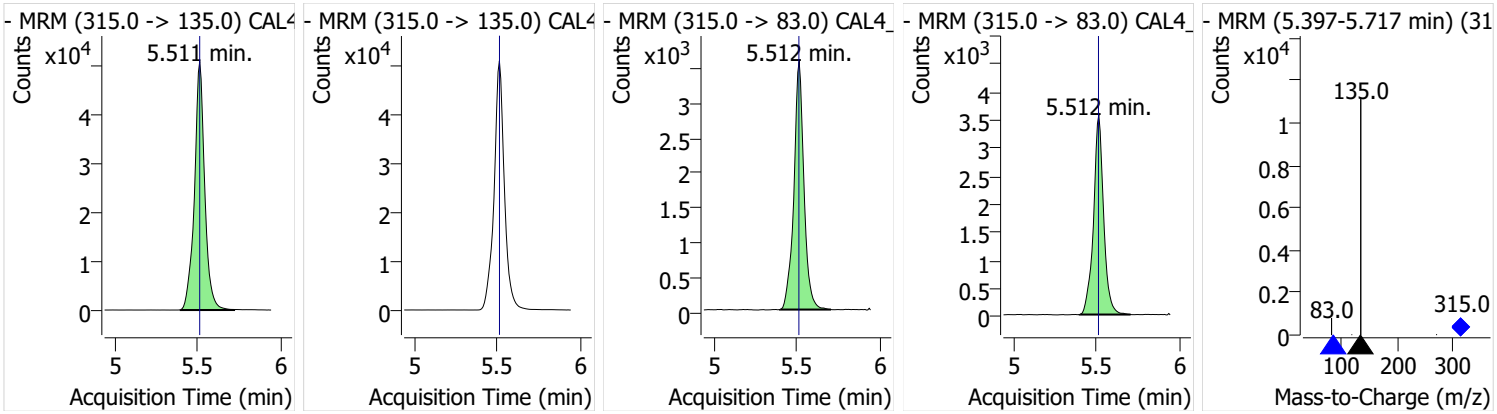

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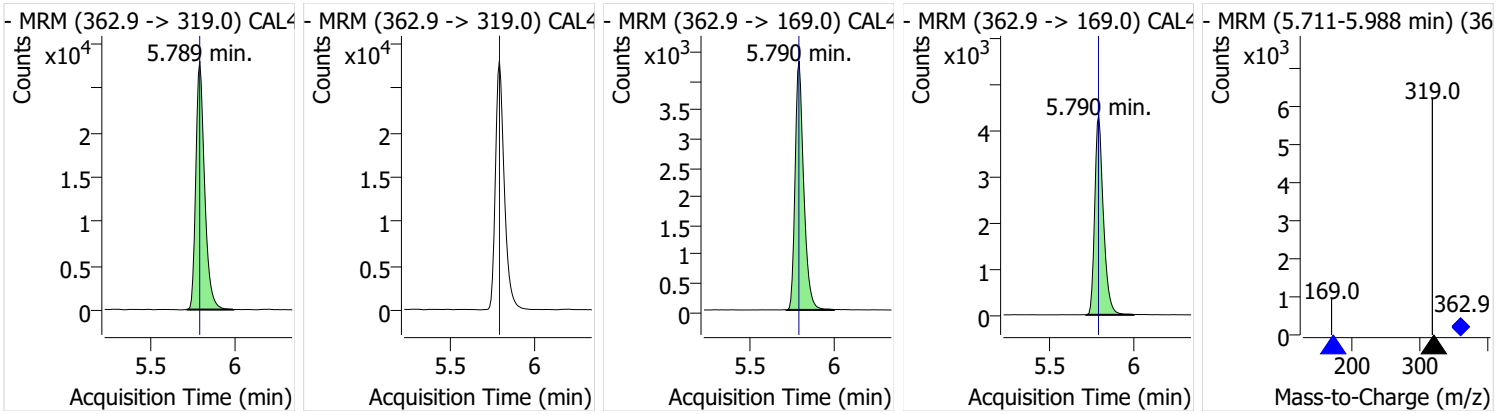

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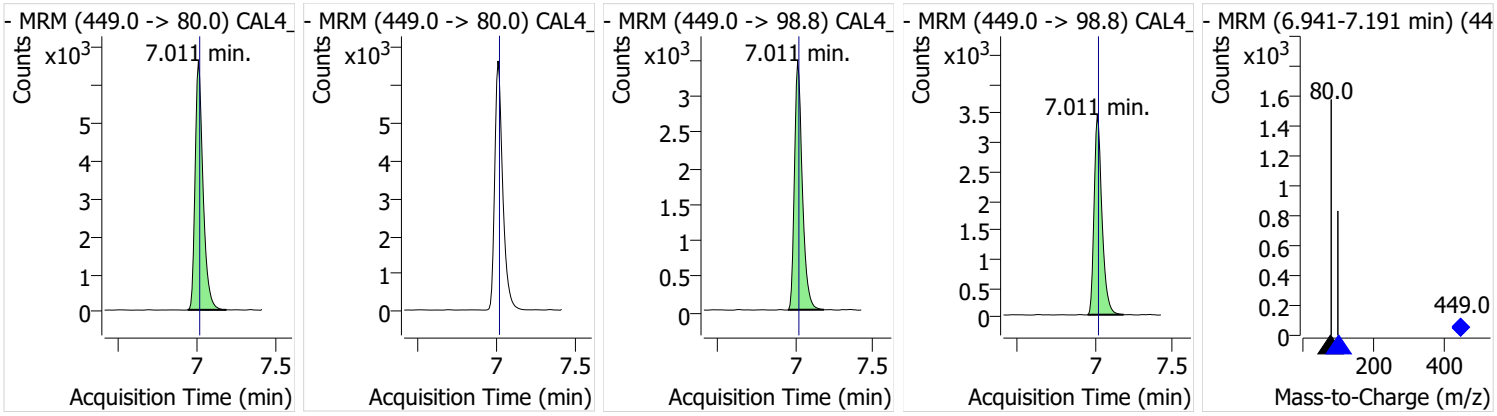

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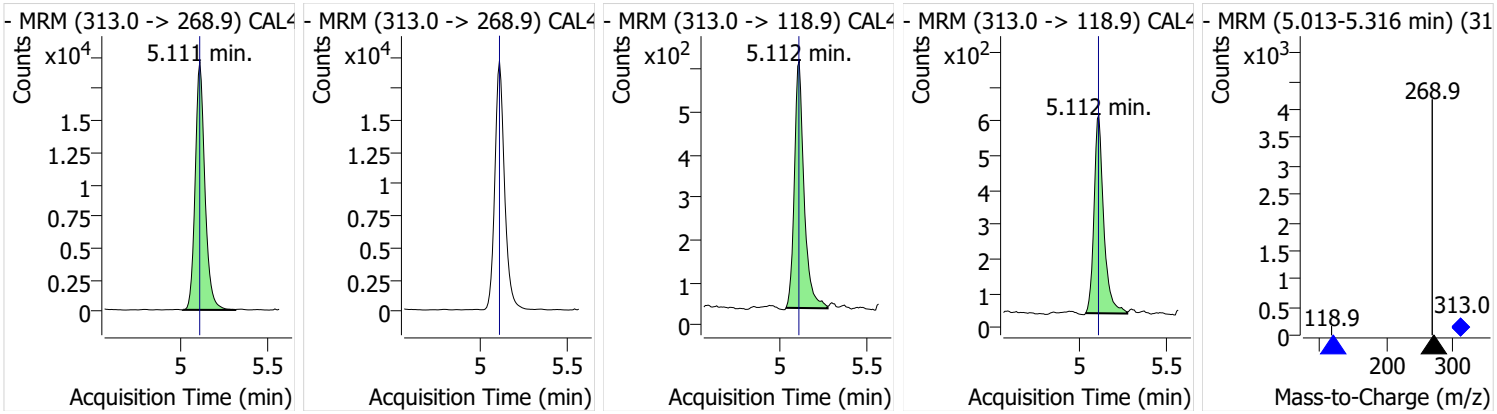

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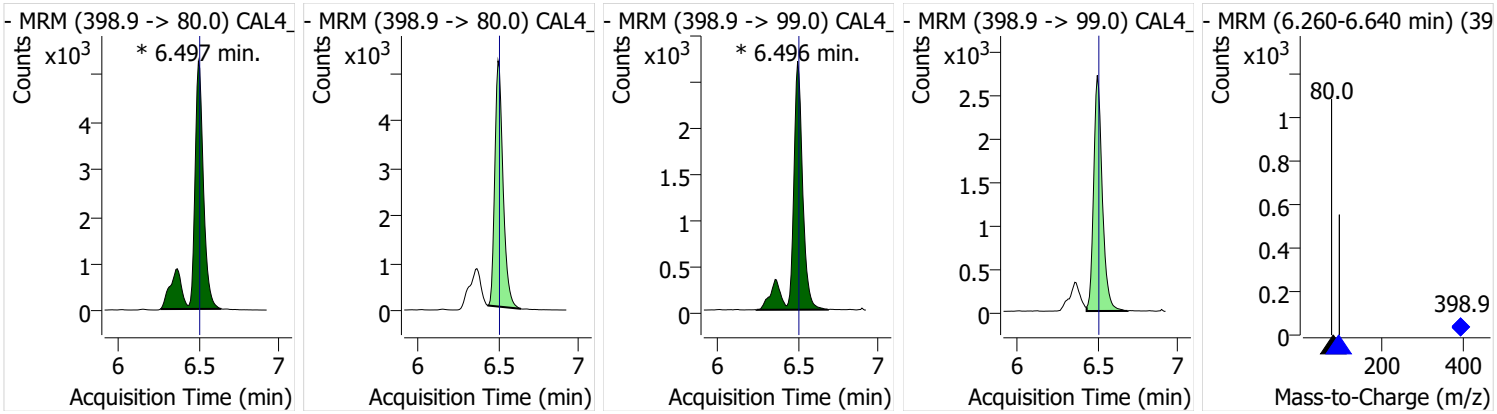

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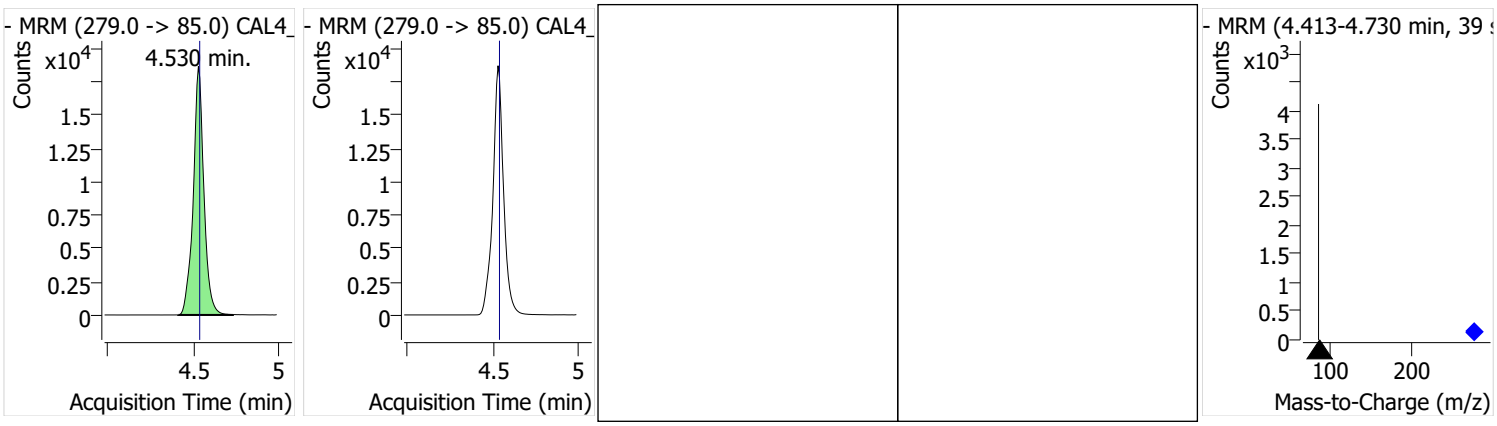

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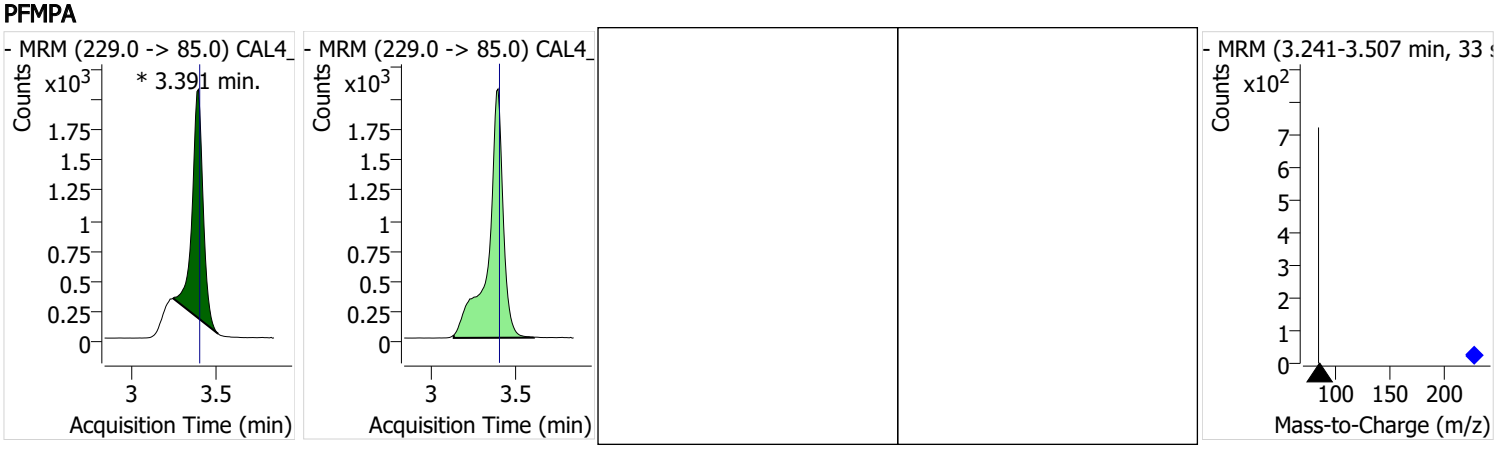

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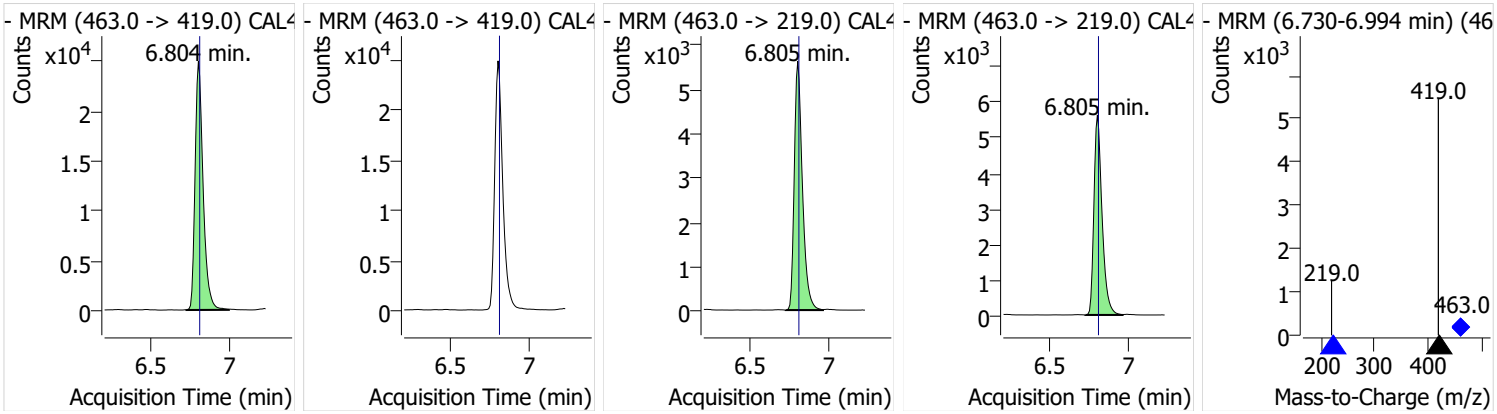

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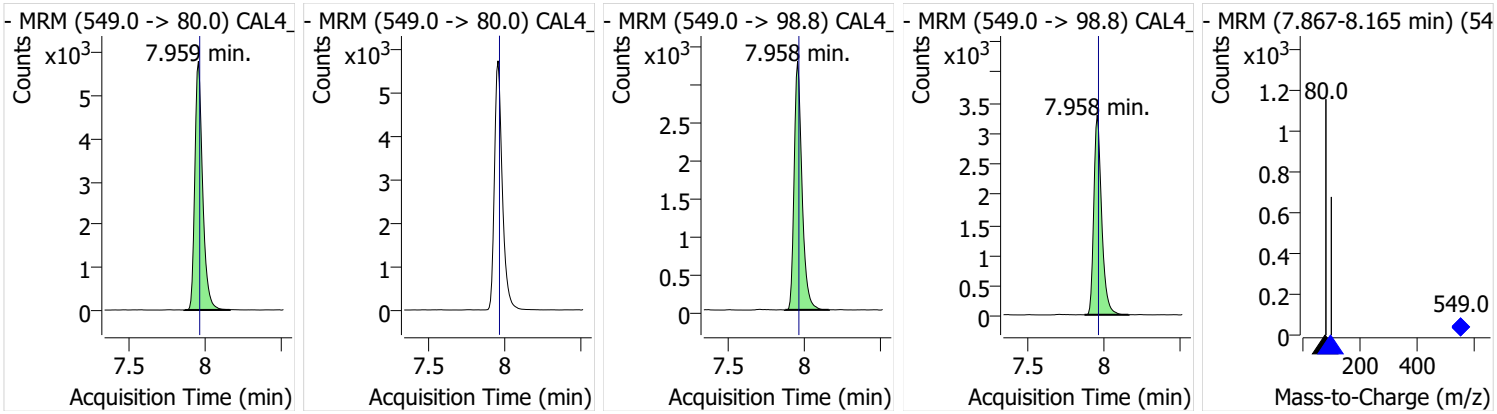

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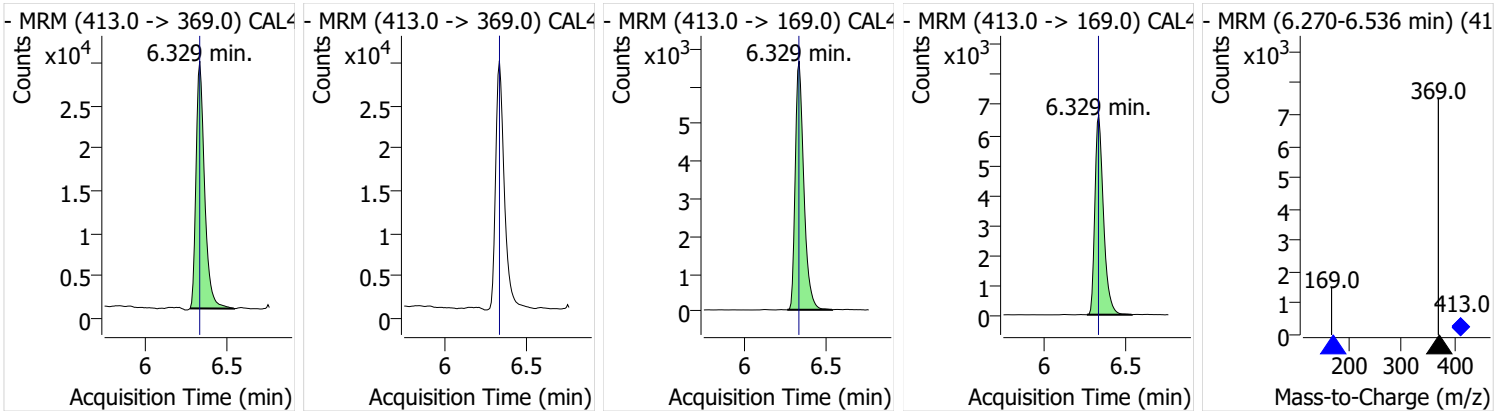

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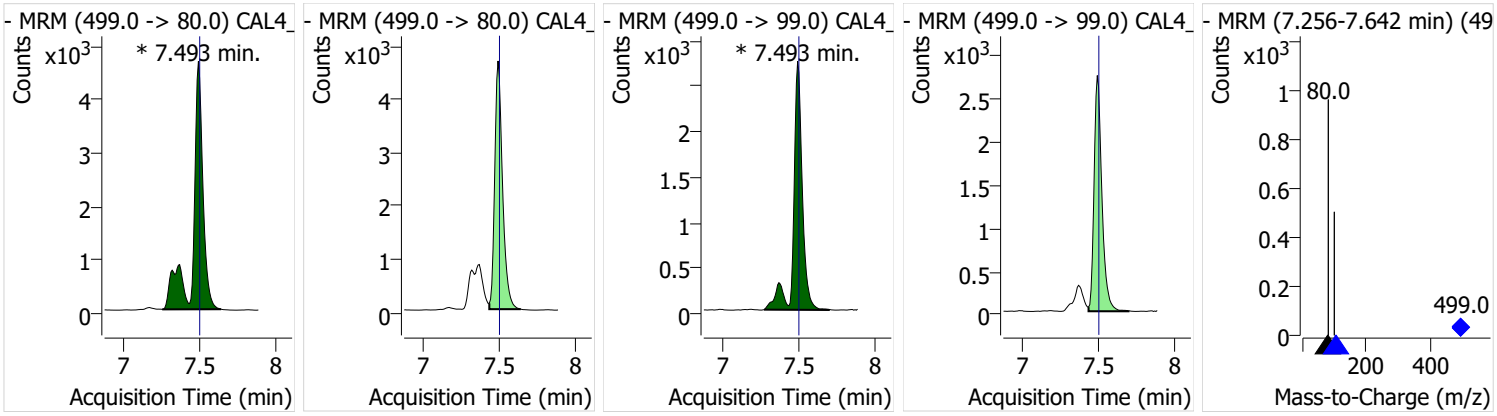

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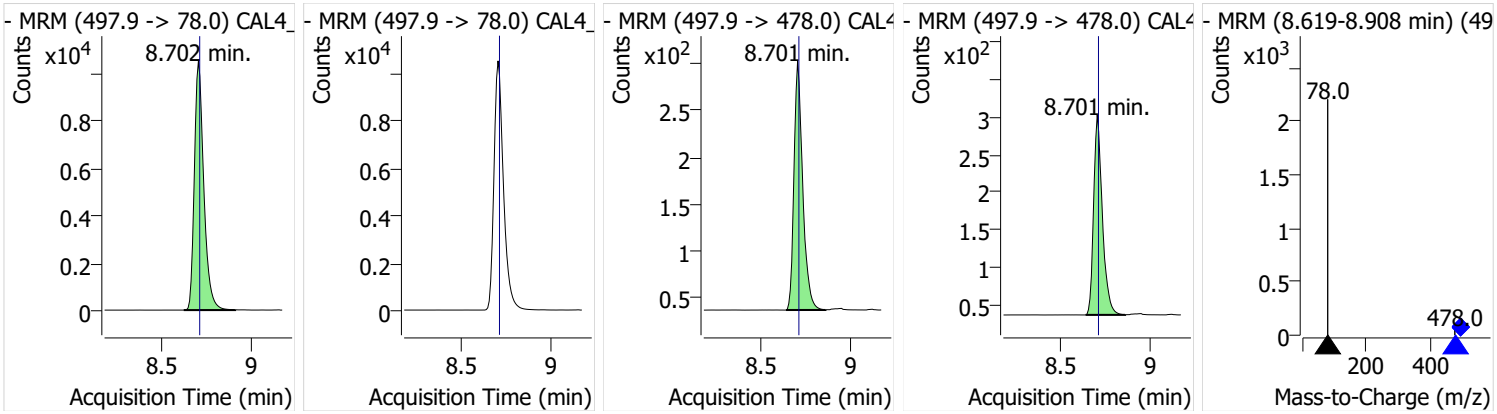

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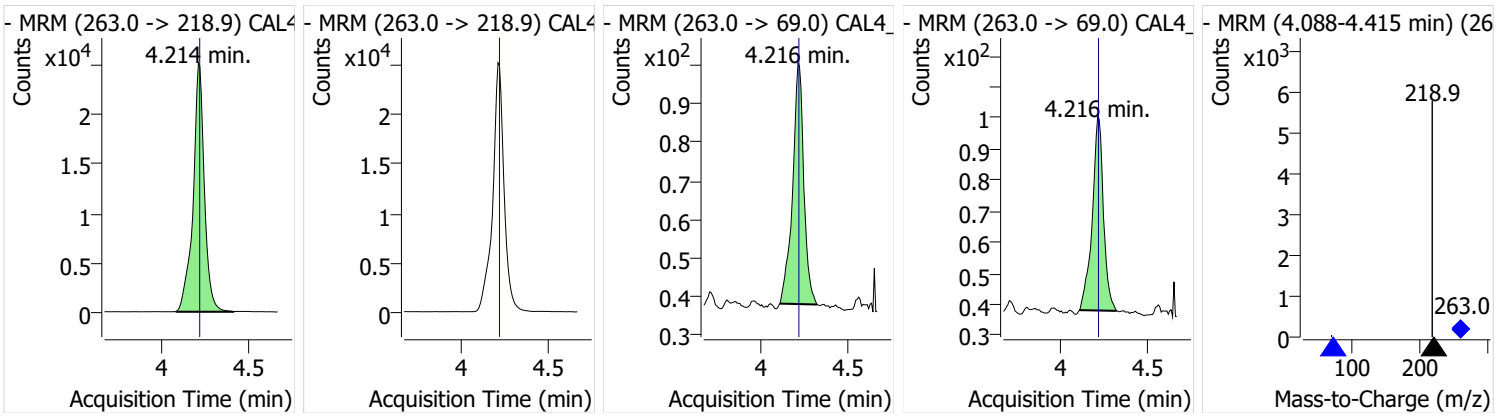

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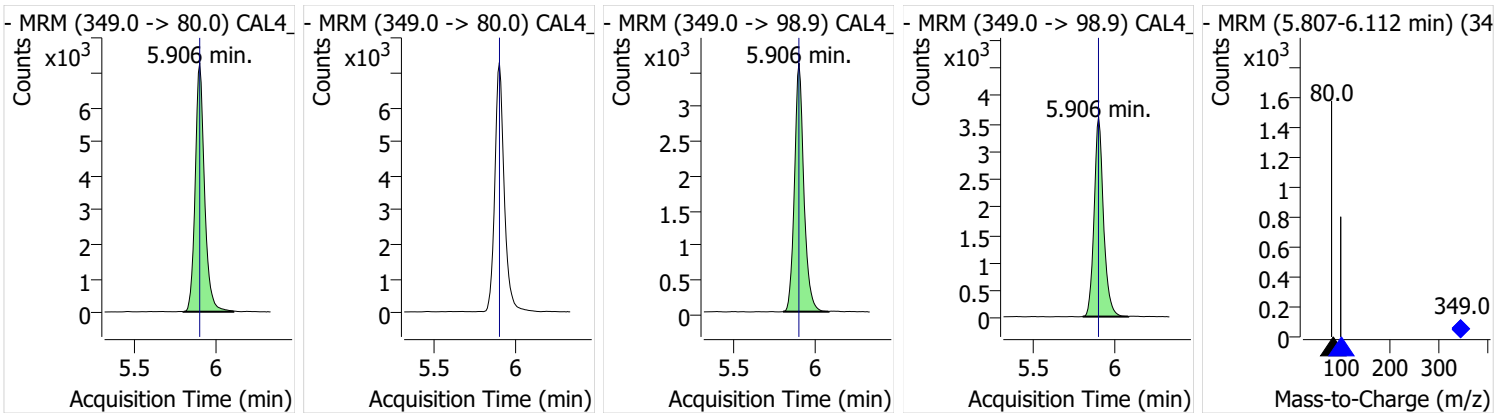

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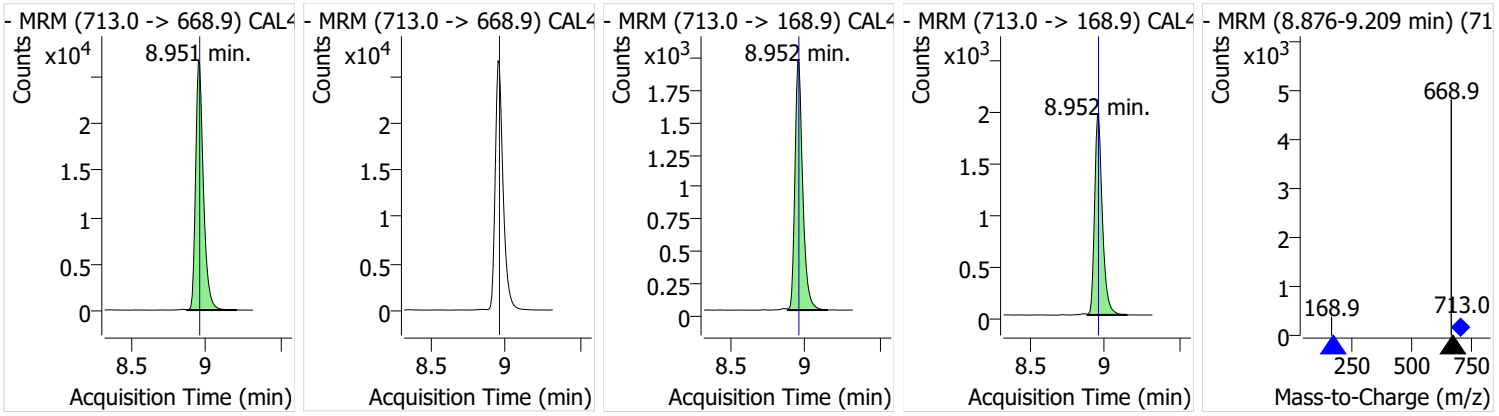

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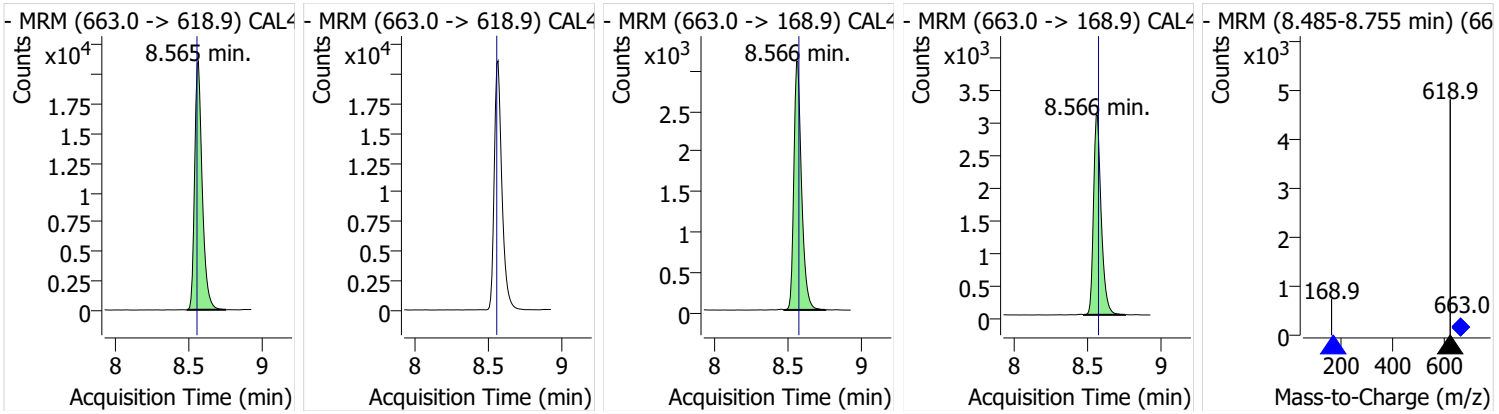

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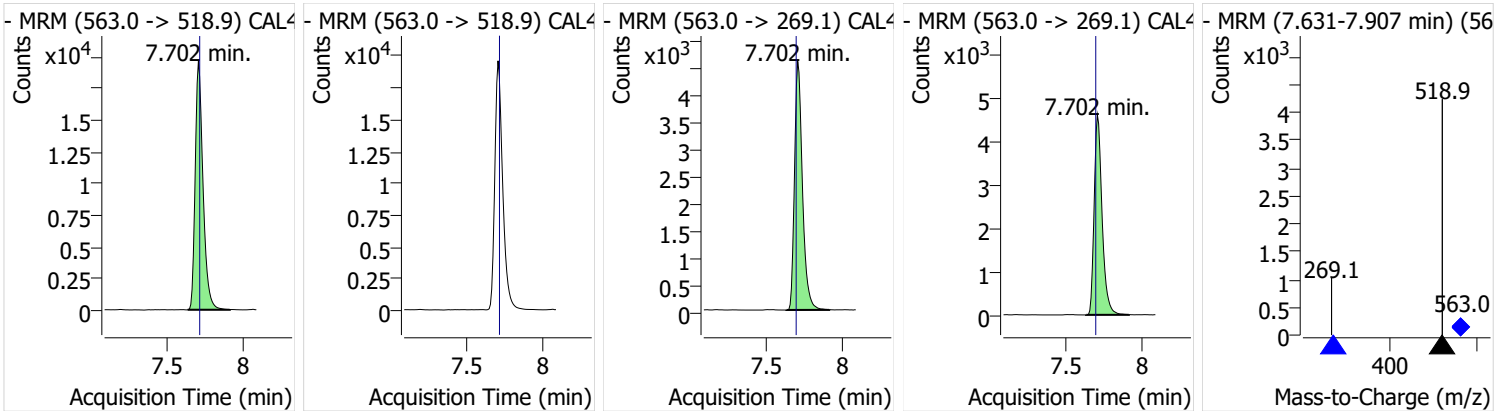

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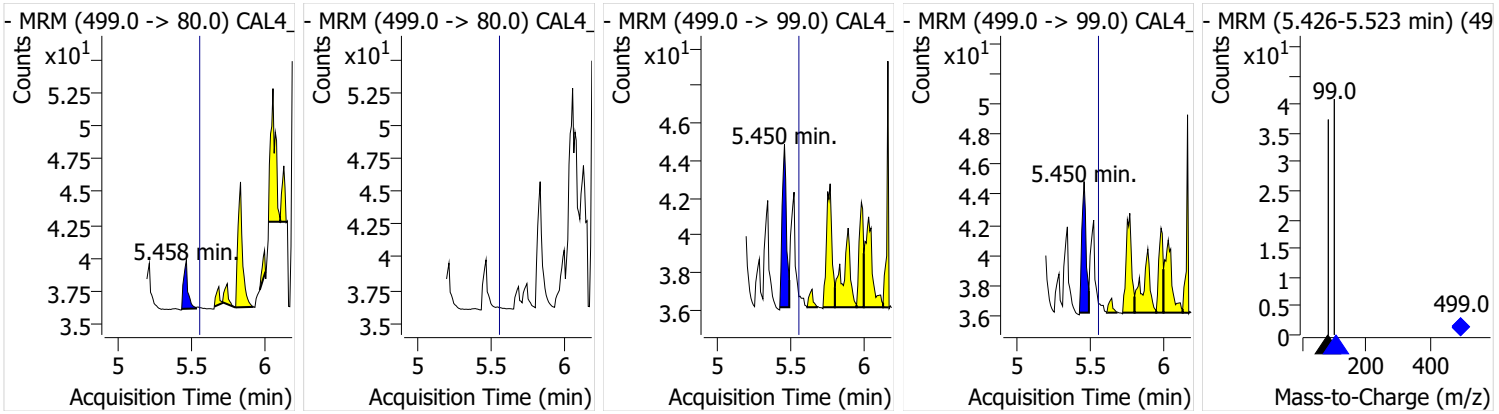
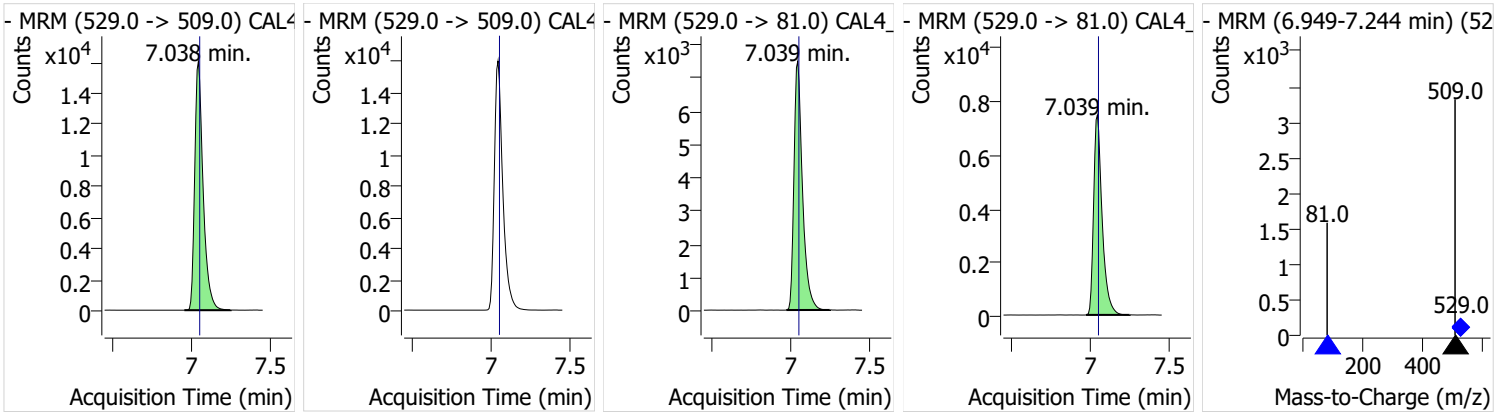


13C2-8:2FTS



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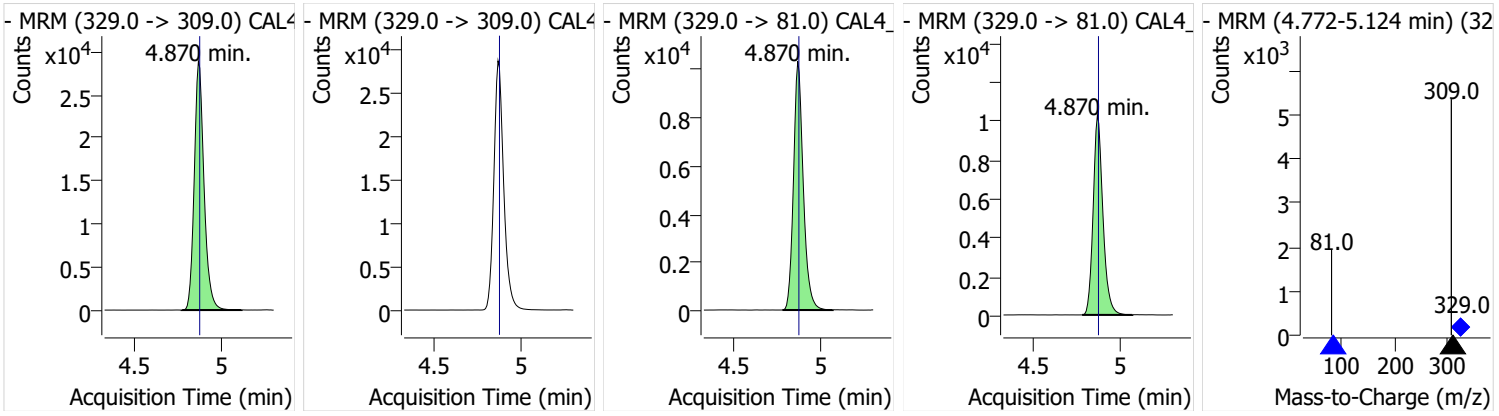
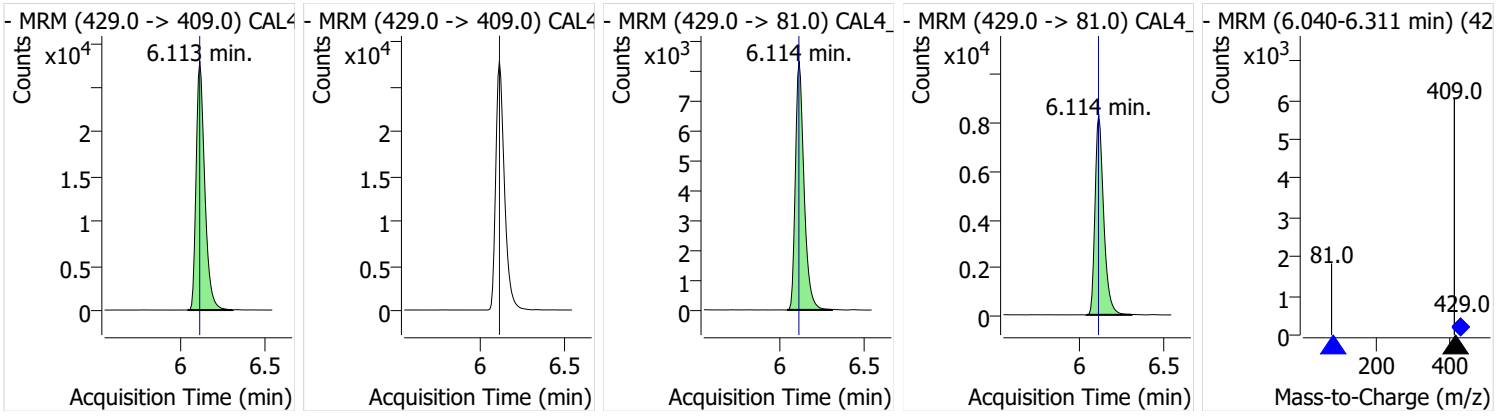


13C2-6:2FTS



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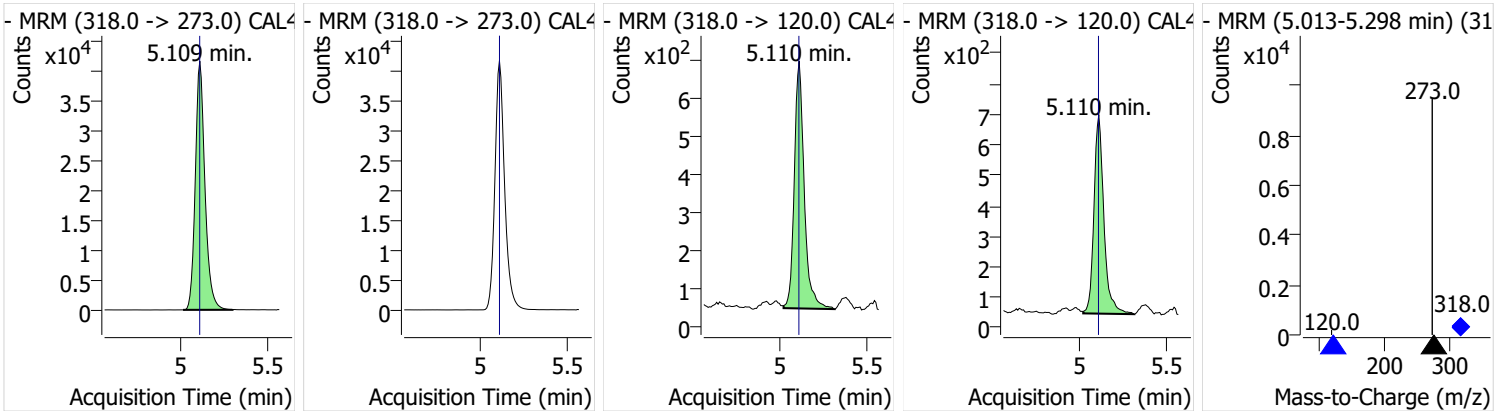

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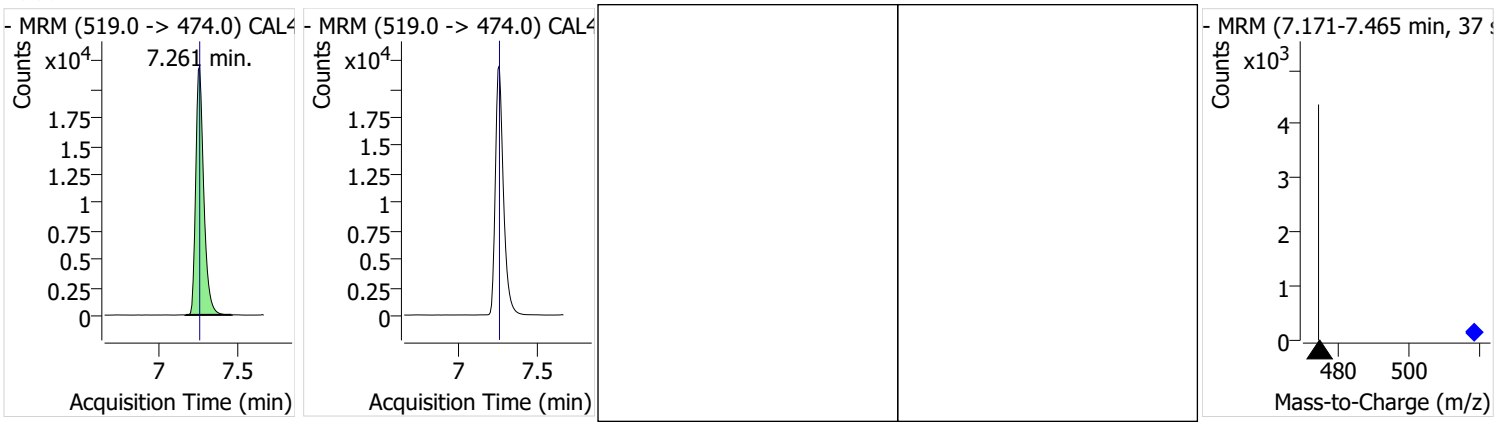

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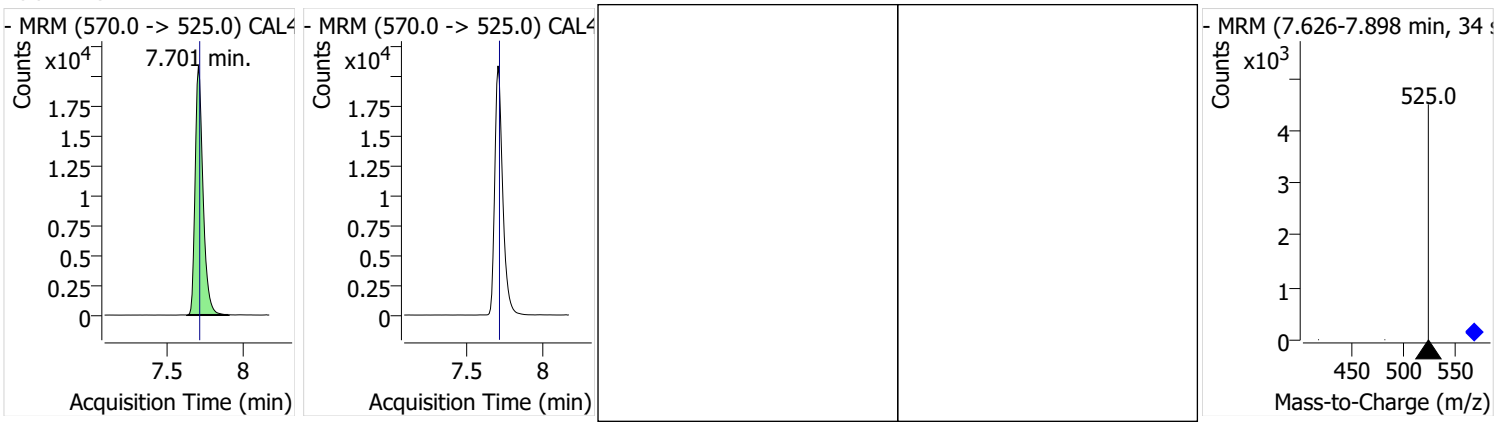

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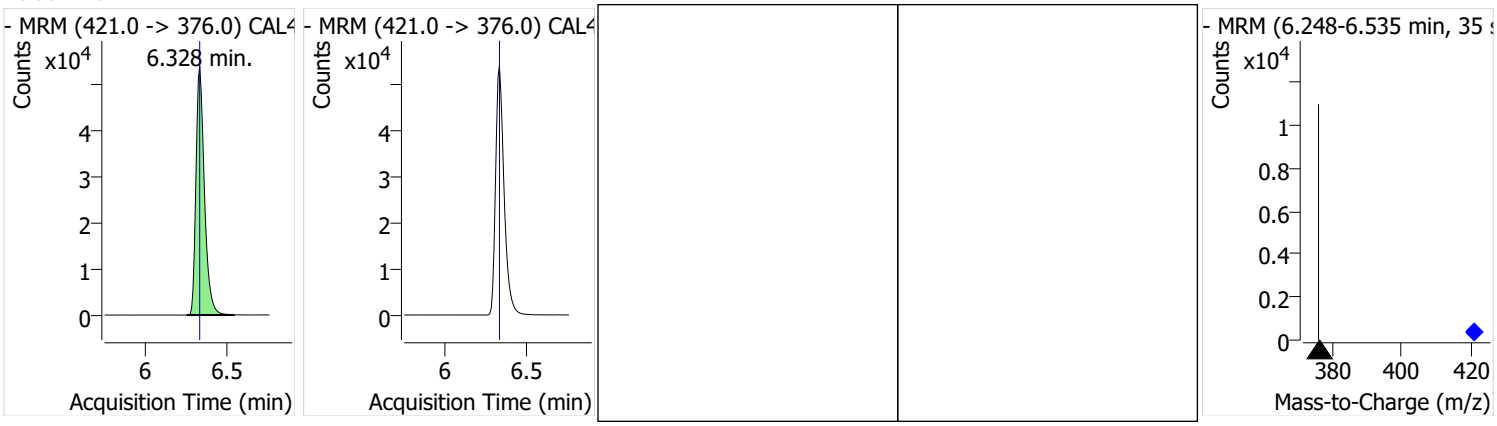

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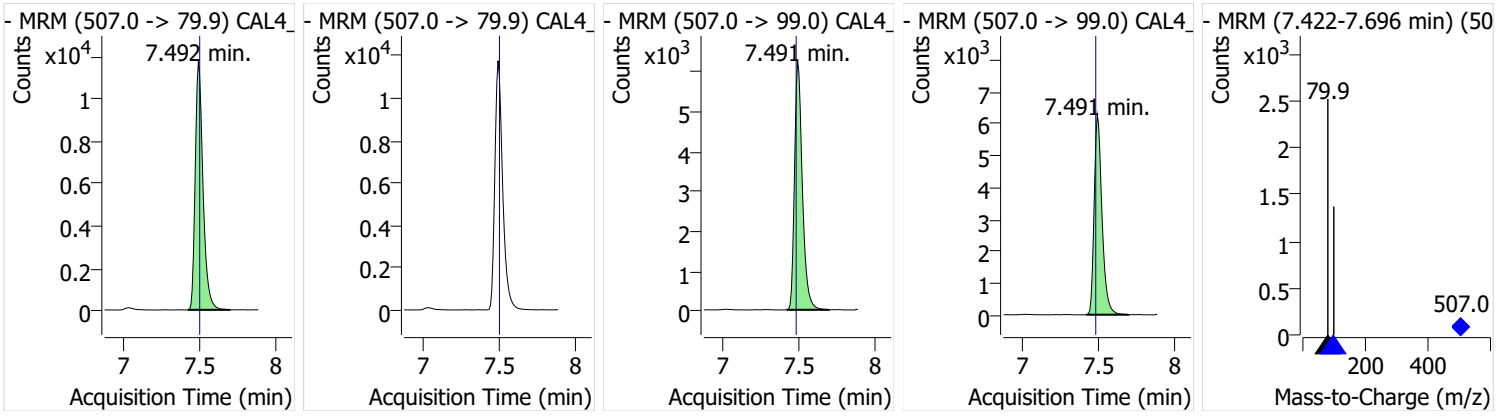

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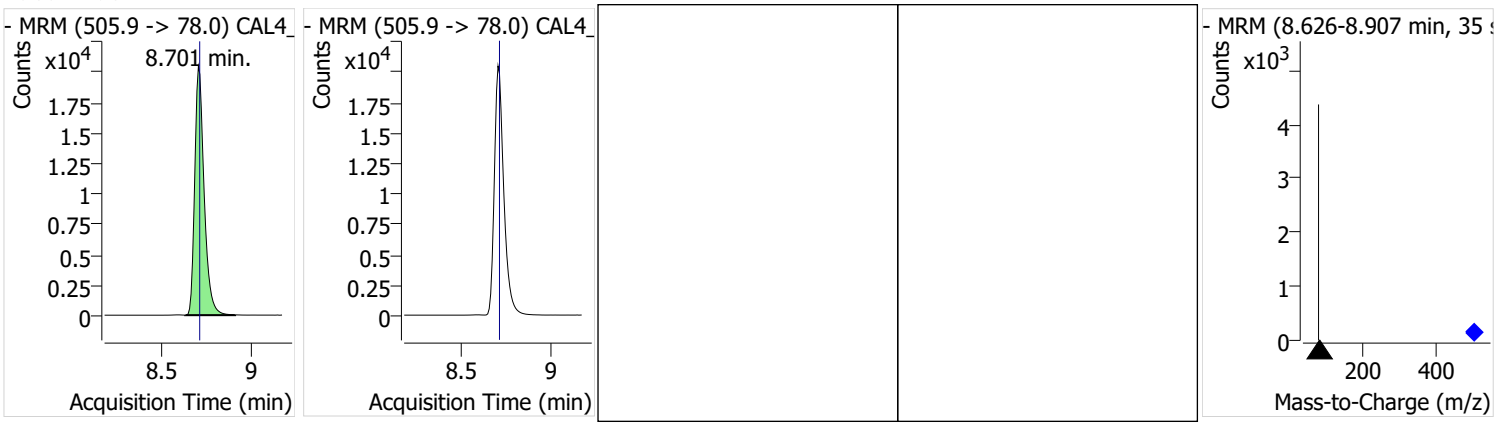

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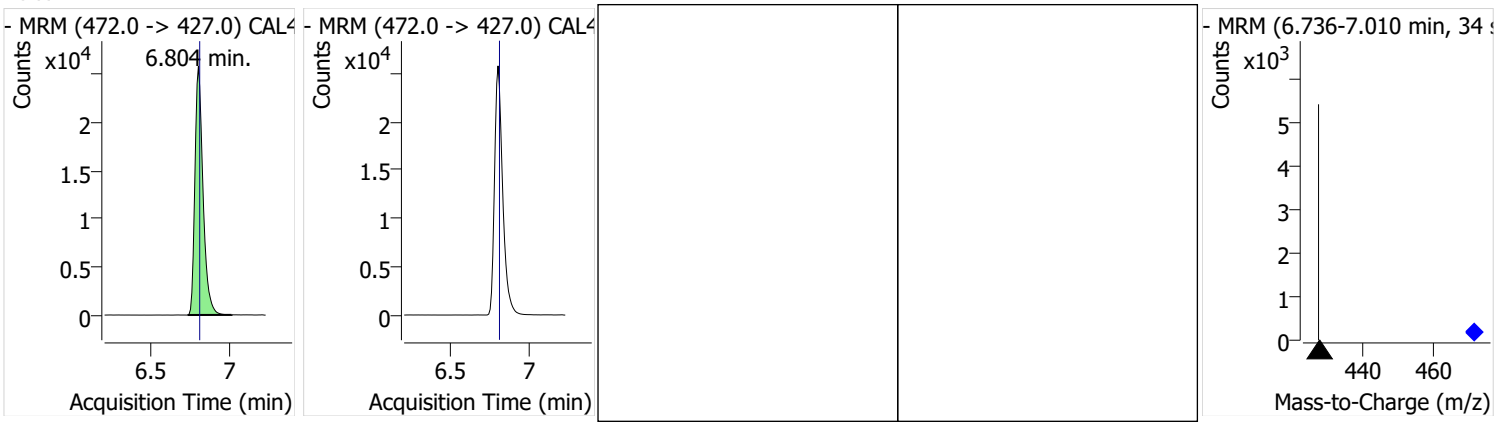

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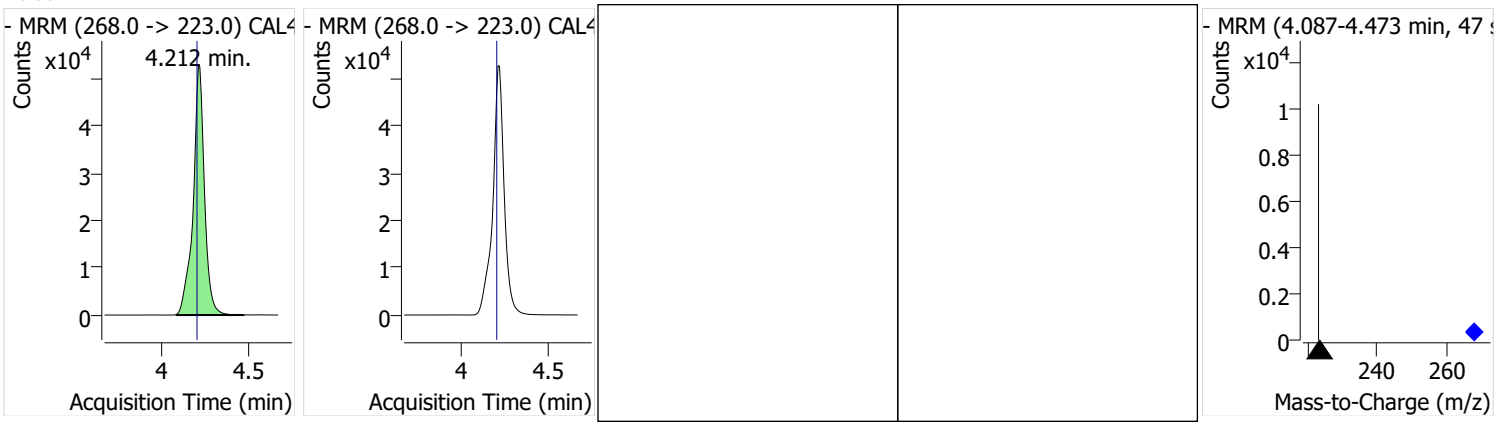

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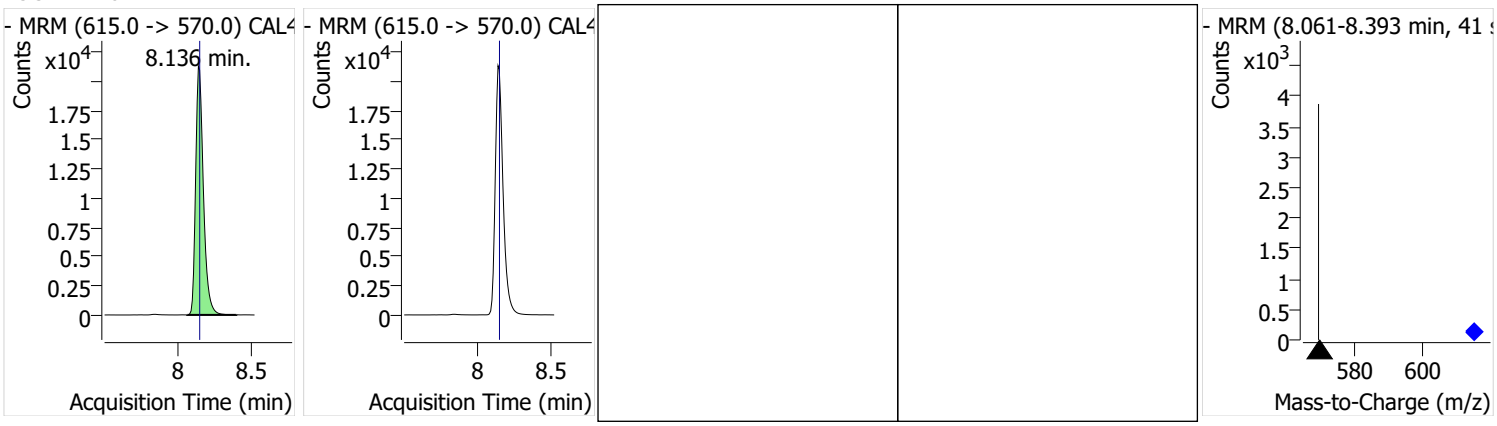

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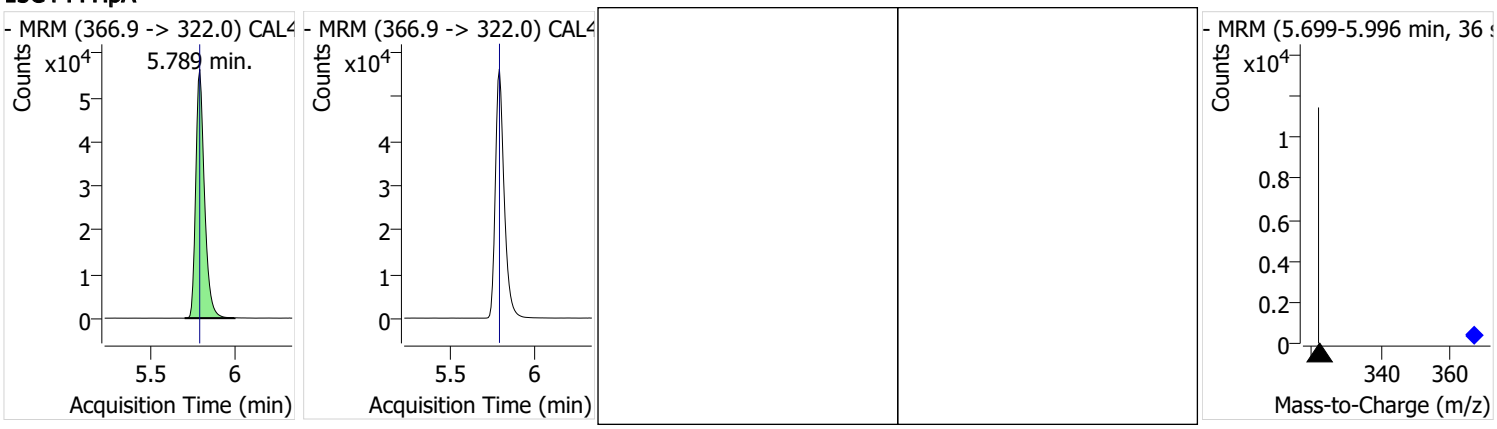

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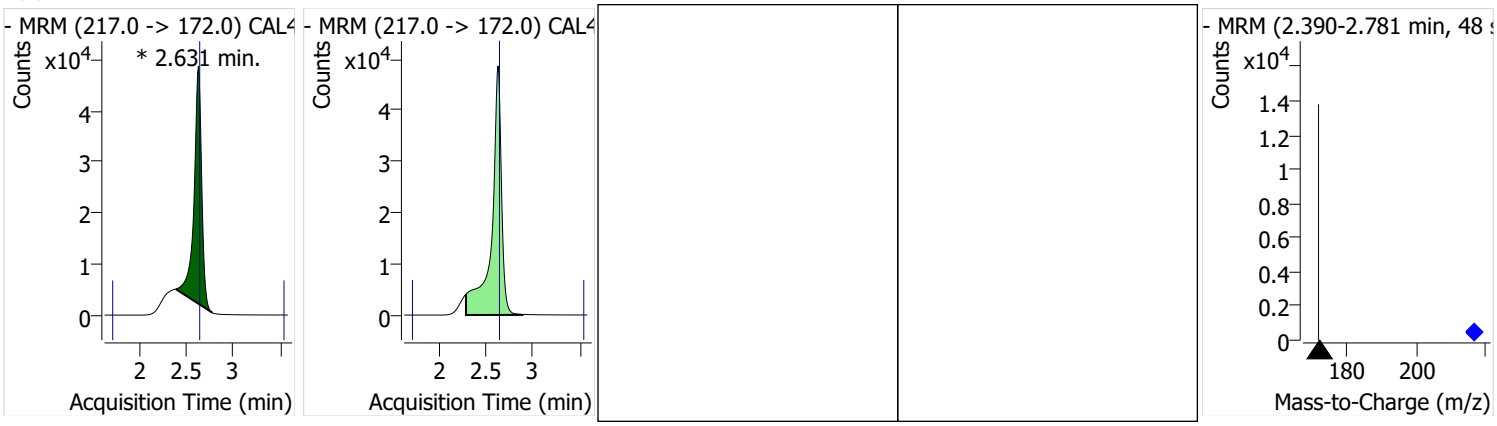

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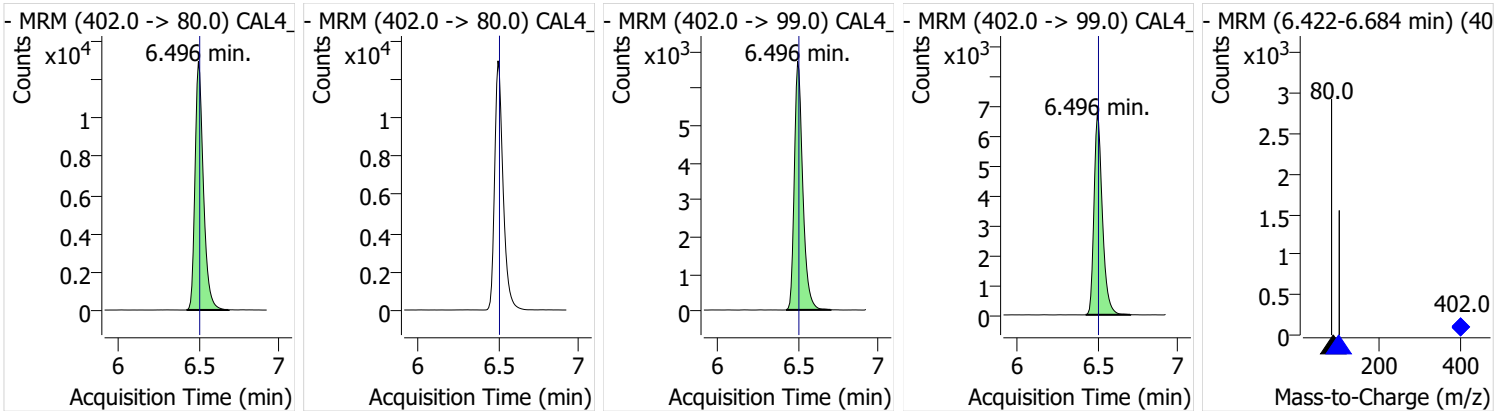

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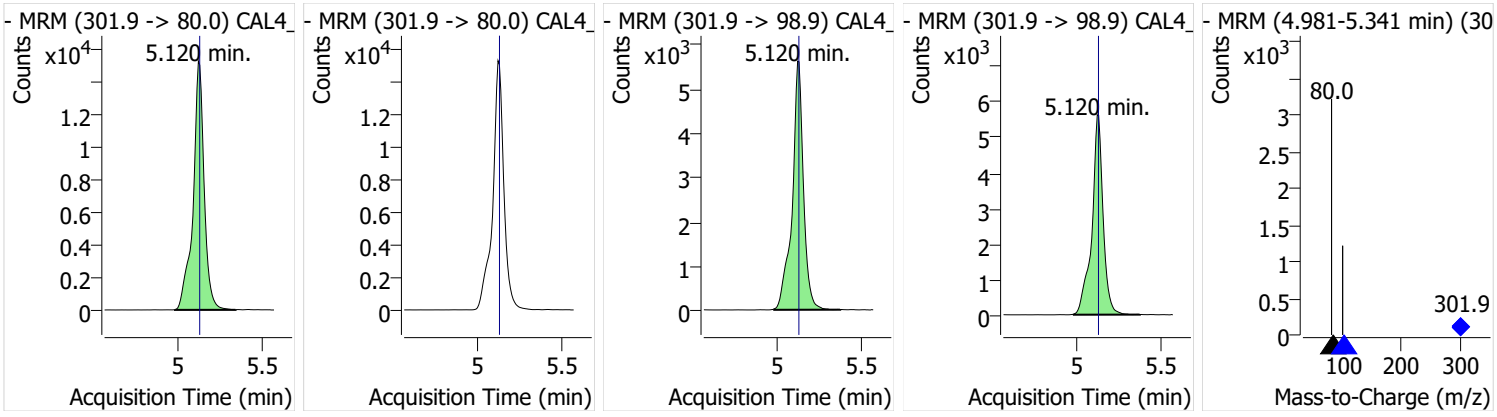

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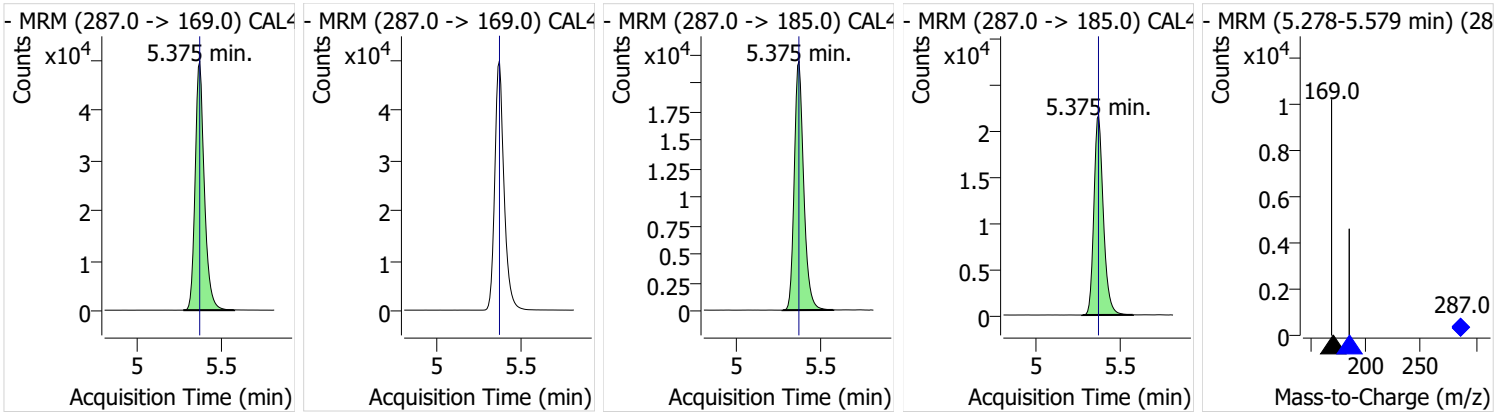

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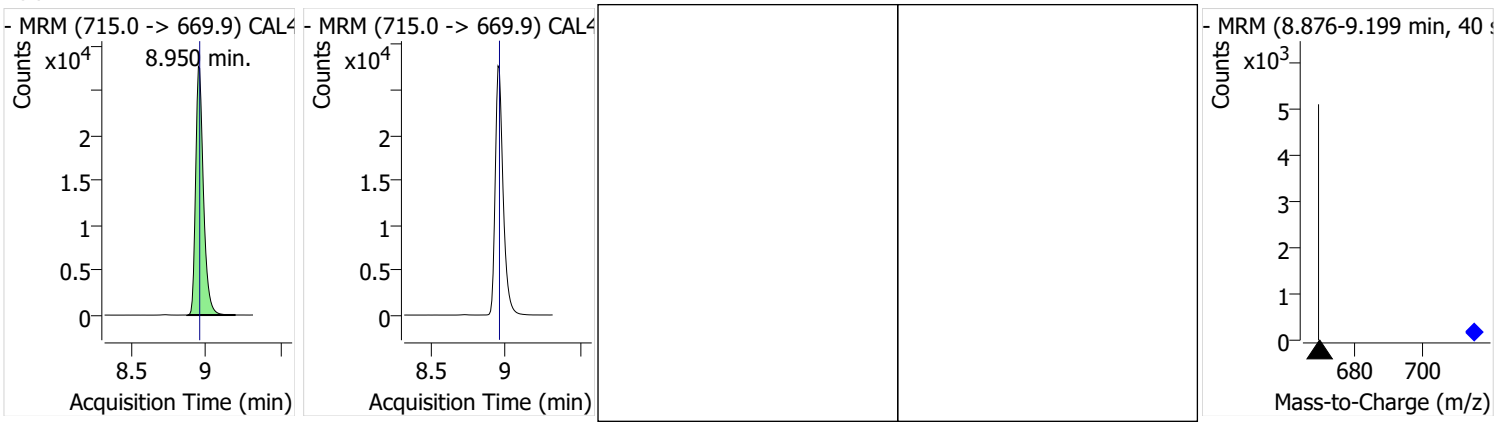
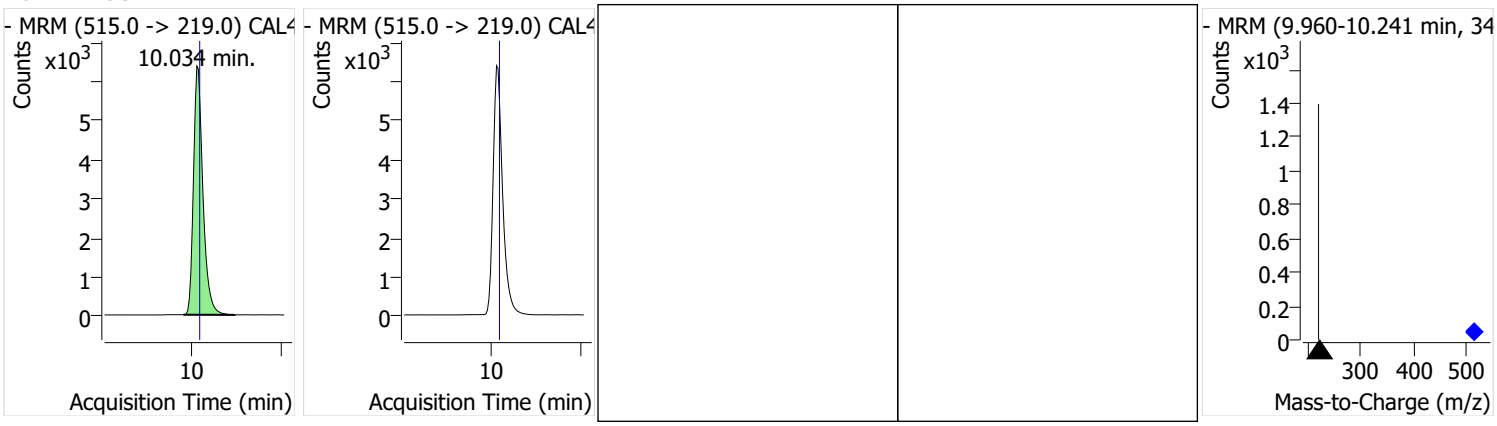
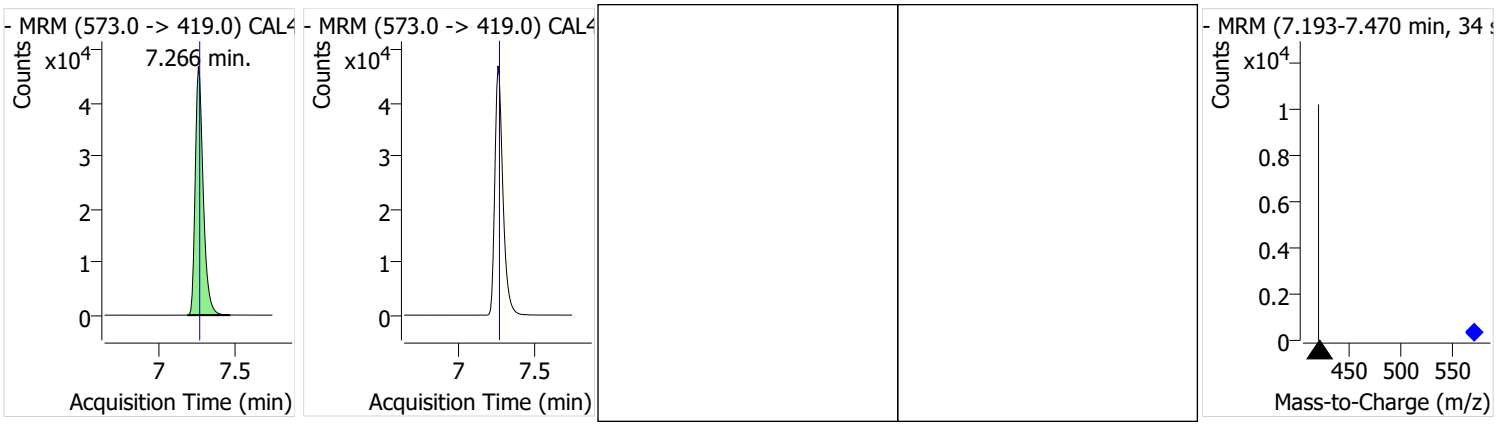


D9-NEtFOSE

D3-NMeFOSA



D3-NMeFOSAA



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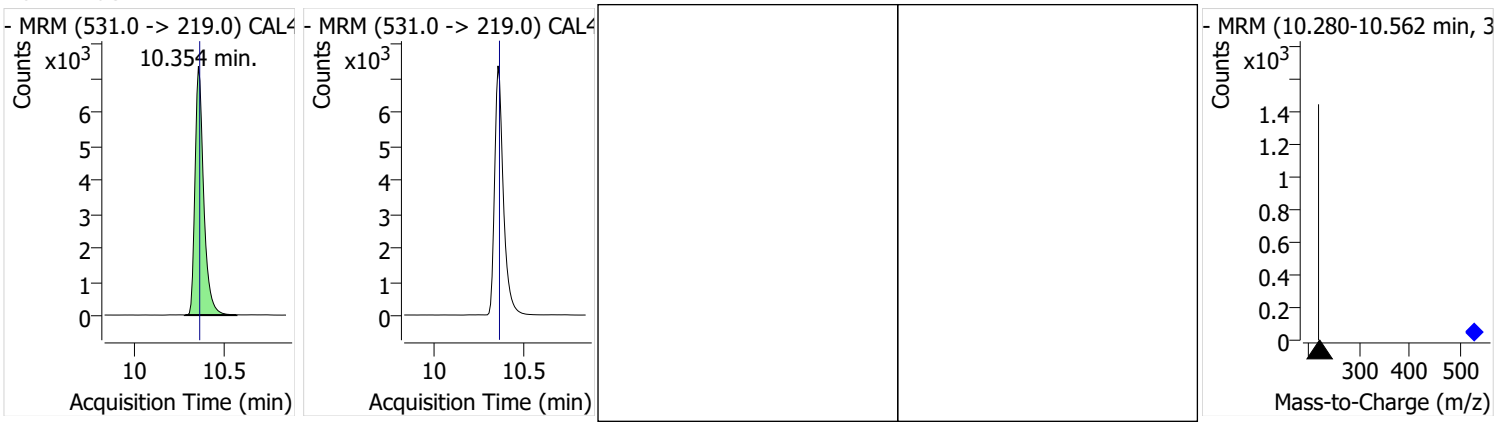

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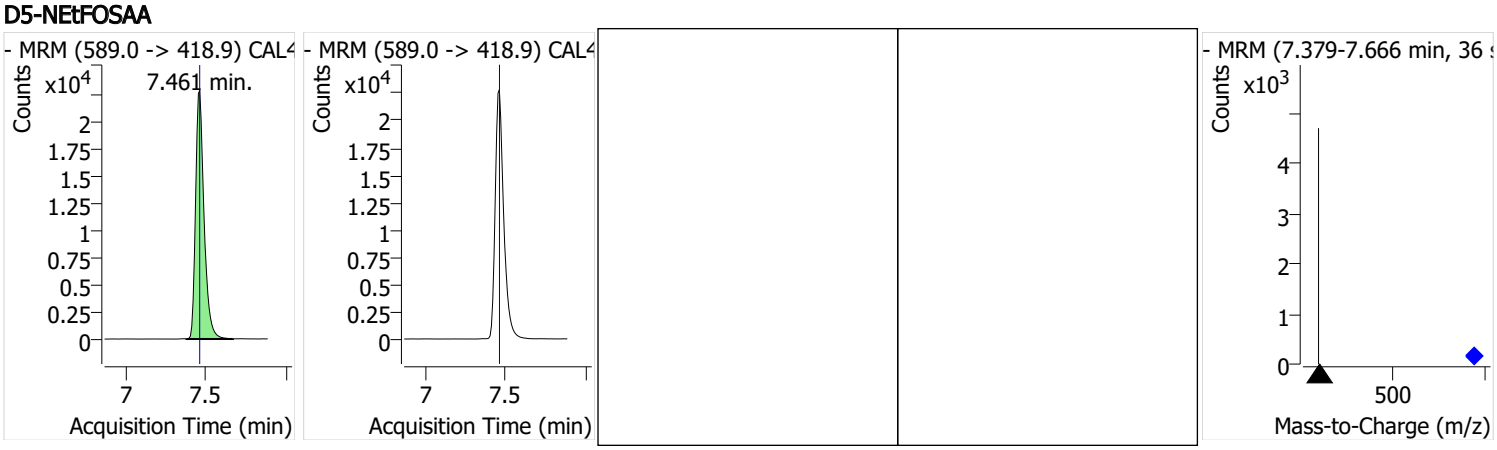
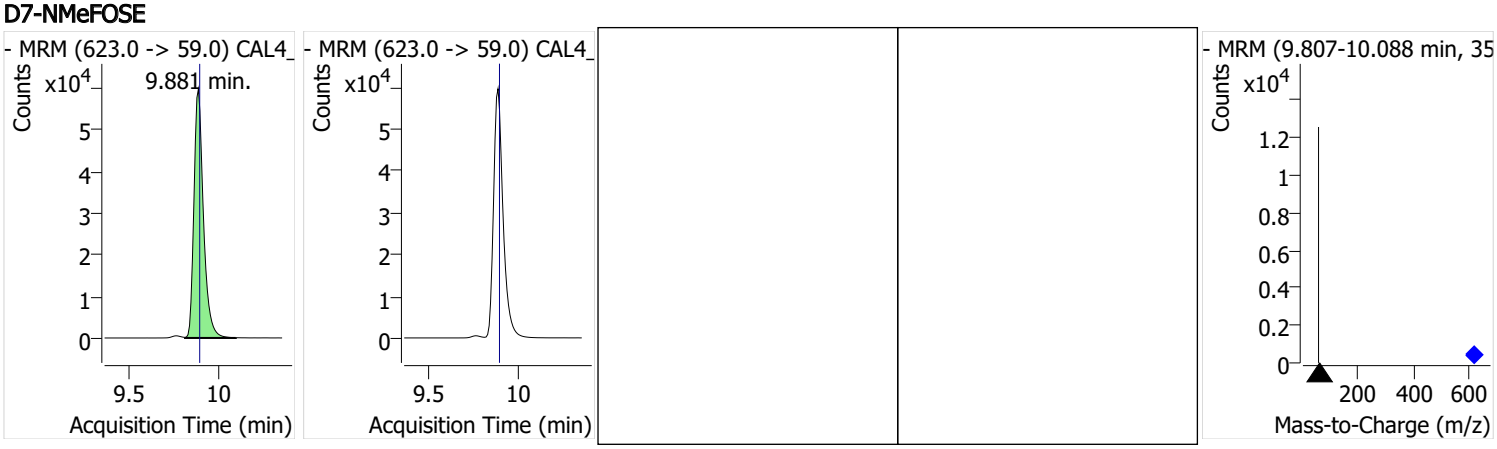


D7-NMeFOSE



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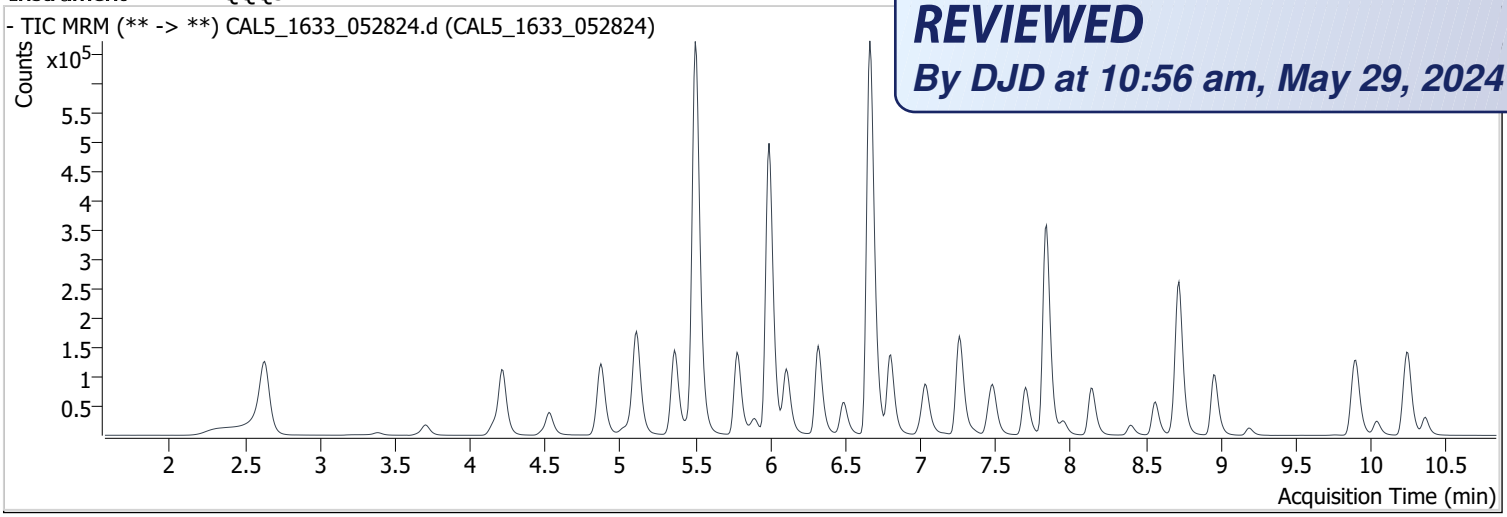
Analysis Time	5/29/2024 8:19 AM	**Last Calib Update**	5/29/2024 8:19 AM
Acq. Time	5/28/2024 10:58 AM	**Data File**	CAL5_1633_052824.d
Sample Type	Cal	**Sample Name**	CAL5_1633_052824
Dilution	1	**Acq. Method**	1633_ACQUISITION.m
Sample Comment	E#24E0158	**Processing method**	1633_050624.m
Instrument	QQQ5		

REVIEWED
By DJD at 10:56 am, May 29, 2024



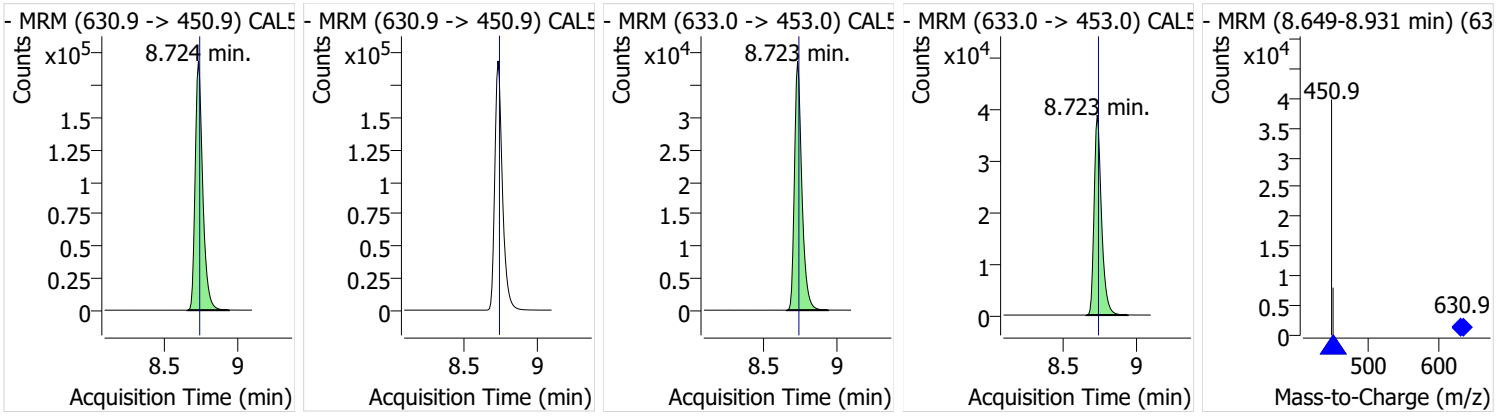
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
11Cl-PF3OUdS	8.724	690360	144510.00		13C3-HFPODA - ISTD	5.367	205495	8.8840	ng/ml			
633.0 -> 453.0			49830.81	19.6								
3:3FTCA	3.707	54145	25356.58		13C5-PFPeA - ISTD	4.212	260642	23.6370	ng/ml			
241.0 -> 117.0			2362.00	50.8								
4:2FTS	4.871	235788	184674.86		13C2-4:2FTS - ISTD	4.870	41029	9.1330	ng/ml			
327.0 -> 80.9			10989.66	35.1								
5:3FTCA	5.501	1079795	93813.37		13C5-PFHxA - ISTD	5.101	175668	119.6948	ng/ml			
341.0 -> 217.0			116082.60	90.4								
6:2FTS	6.106	170663	41508.05		13C2-6:2FTS - ISTD	6.105	33124	9.0624	ng/ml			
427.0 -> 80.9			17404.46	36.4								
7:3FTCA	6.666	1334636	10247.79		13C5-PFHxA - ISTD	5.101	175668	118.1330	ng/ml			
441.0 -> 317.0			4654.14	89.0								
8:2FTS	7.039	107058	498009.73		13C2-8:2FTS - ISTD	7.039	31144	9.5742	ng/ml			
527.0 -> 81.0			16766.91	58.6								
9Cl-PF3ONS	7.843	1014338	75679.64		13C3-HFPODA - ISTD	5.367	205495	8.6960	ng/ml			
533.0 -> 353.0			6038.69	27.3								
ADONA	5.995	1277562	74448.05		13C3-HFPODA - ISTD	5.367	205495	8.2766	ng/ml			
377.0 -> 85.1			82607.73	39.5								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA	5.368	164385	34636.96		13C3-HFPODA - ISTD	5.367	205495	9.3697	ng/ml			
285.0 -> 184.9			8049.43	46.7								
NEtFOSA	10.364	34685	19151.50		D5-NEtFOSA - ISTD	10.354	26898	2.4361	ng/ml			
526.0 -> 219.0			25007.64	98.0								
NEtFOSAA	7.461	48277	5378.87		D5-NEtFOSAA - ISTD	7.453	92585	2.4661	ng/ml	✔	3	AMS 05/29/24
584.0 -> 526.0			1089.75	61.3								
NEtFOSE	10.245	308814	114279.67		D9-NEtFOSE - ISTD	10.227	266672	25.2165	ng/ml			
NFDHA	5.023	24553	7204.39		13C5-PFHxA - ISTD	5.101	175668	4.9892	ng/ml			
295.0 -> 85.0			2501.07	30.4								
NMeFOSA	10.044	29584	25368.62		D3-NMeFOSA - ISTD	10.043	26193	2.4065	ng/ml			
512.0 -> 219.0			24066.17	90.6								
NMeFOSAA	7.266	31665	5206.47		D3-NMeFOSAA - ISTD	7.266	190384	2.2804	ng/ml	✔	3	AMS 05/29/24
570.0 -> 418.9			75580.96	63.3								
NMeFOSE	9.907	280203	97413.52		D7-NMeFOSE - ISTD	9.881	249512	25.0693	ng/ml			
PFBA	2.637	267543	9267.42		13C4-PFBA - ISTD	2.631	297726	9.9235	ng/ml	✔	3	AMS 05/29/24
PFBS	5.121	77675	11017.05		13C3-PFBS - ISTD	5.120	77054	2.1341	ng/ml			
298.9 -> 98.8			2972.89	40.9								
PFDA	7.262	174851	3121.84		13C6-PFDA - ISTD	7.253	91837	2.4305	ng/ml			
513.0 -> 219.0			11672.95	21.9								
PFDoA	8.137	172127	12172.18		13C2-PFDoA - ISTD	8.136	89080	2.4064	ng/ml			
613.0 -> 319.0			4368.18	17.5								
PFDoS	9.189	26602	12719.46		13C8-PFOS - ISTD	7.492	45090	2.4176	ng/ml			
698.9 -> 99.0			12388.83	65.8								
PFDS	8.403	37710	8894.25		13C8-PFOS - ISTD	7.492	45090	2.3908	ng/ml			
599.0 -> 98.8			5046.42	58.2								
PFEESA	5.503	461143	36038.38		13C5-PFHxA - ISTD	5.101	175668	4.4763	ng/ml			
315.0 -> 83.0			5603.45	6.8								
PFHpA	5.781	232411	5130.95		13C4-PFHpA - ISTD	5.781	231340	2.4264	ng/ml			
362.9 -> 169.0			13393.65	15.7								
PFHpS	7.011	51987	6556.39		13C8-PFOS - ISTD	7.492	45090	2.3993	ng/ml			
449.0 -> 98.8			7962.92	51.9								

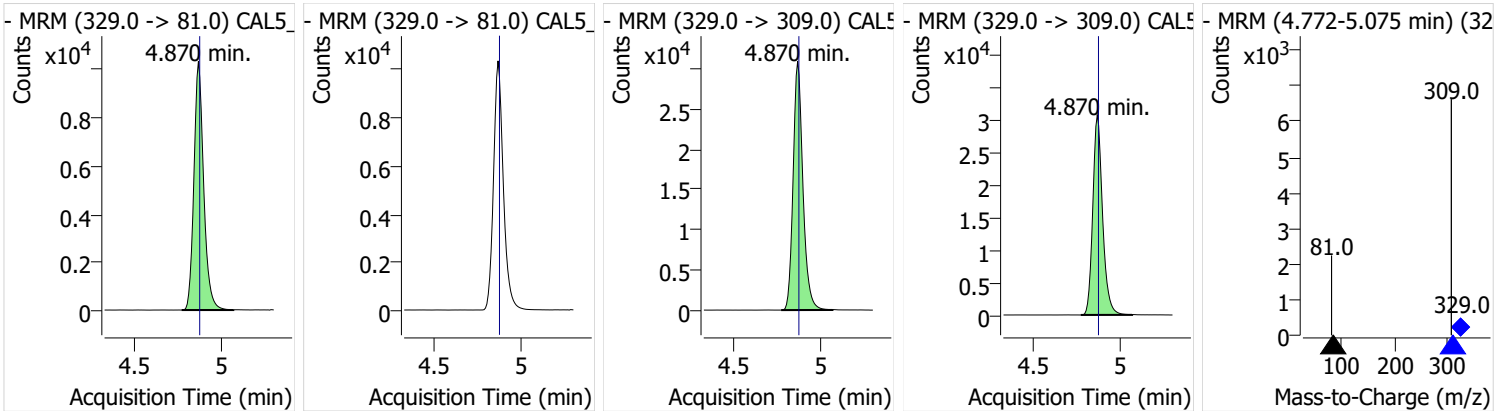
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFHxA	5.103	168794	3603.52		13C5-PFHxA - ISTD	5.101	175668	2.4521	ng/ml			
313.0 -> 118.9			816.37	2.8								
PFHxS	6.497	53891	2451.42		13C3-PFHxS - ISTD	6.496	53441	2.1143	ng/ml	✔	3	AMS 05/29/24
398.9 -> 99.0			4364.13	48.5								
PFMBA	4.530	165250	78622.33		13C5-PFPeA - ISTD	4.212	260642	4.8155	ng/ml			
PFMPA	3.391	16985	7054.25		13C5-PFPeA - ISTD	4.212	260642	4.6754	ng/ml	✔	3	AMS 05/29/24
PFNA	6.804	191127	5055.69		13C9-PFNA - ISTD	6.804	100053	2.4248	ng/ml			
463.0 -> 219.0			22358.90	23.2								
PFNS	7.959	46243	12463.59		13C8-PFOS - ISTD	7.492	45090	2.3812	ng/ml			
549.0 -> 98.8			14804.10	56.1								
PFOA	6.321	233135	878.33		13C8-PFOA - ISTD	6.320	211550	2.4000	ng/ml			
413.0 -> 169.0			6820.39	23.3								
PFOS	7.493	48802	1350.81		13C8-PFOS - ISTD	7.492	45090	2.2323	ng/ml	✔	3	AMS 05/29/24
499.0 -> 99.0			3355.07	50.8								
PFOSA	8.702	85555	30576.98		13C8-PFOSA - ISTD	8.701	81434	2.4389	ng/ml			
497.9 -> 478.0			27728.94	2.6								
PFPeA	4.214	250004	13504.47		13C5-PFPeA - ISTD	4.212	260642	4.8682	ng/ml			
263.0 -> 69.0			261.87	0.2								
PFPeS	5.898	64904	5404.51		13C3-PFHxS - ISTD	6.496	53441	2.2419	ng/ml			
349.0 -> 98.9			11201.27	50.1								
PFTeDA	8.951	231081	16334.75		13C2-PFTeDA - ISTD	8.950	121002	2.4665	ng/ml			
713.0 -> 168.9			22640.19	7.5								
PFTrDA	8.565	178509	10384.14		13C2-PFDoA - ISTD	8.136	89080	2.4103	ng/ml			
663.0 -> 168.9			9961.17	14.6								
PFUnA	7.702	161857	4834.43		13C7-PFUnA - ISTD	7.701	84109	2.4820	ng/ml			
563.0 -> 269.1			16491.44	24.8								
TDCA	5.540	5	3.75					-	ng/ml			
499.0 -> 99.0			5.12	17.2								
13C2-8:2FTS	7.038	70726	777552.56		18O2-PFHxS	6.495	50357	5.1428	ng/ml			
529.0 -> 81.0			7039.74	44.0								
13C2-4:2FTS	4.870	123074	26084.85		18O2-PFHxS	6.495	50357	4.8007	ng/ml			
329.0 -> 81.0			9824.70	33.3								
13C2-6:2FTS	6.105	115444	39671.17		18O2-PFHxS	6.495	50357	5.0663	ng/ml			

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
429.0 -> 81.0			5736.89	28.7								
13C5-PFHxA	5.101	175668	13271.28		13C2-PFHxA	5.102	162432	2.5525	ng/ml			
318.0 -> 120.0			219.49	1.5								
13C6-PFDA	7.253	91837	6028.29		13C2-PFDA	7.253	88819	1.2985	ng/ml			
13C7-PFUnA	7.701	84109	16866.57		13C2-PFDA	7.253	88819	1.2720	ng/ml			
13C8-PFOA	6.320	211550	38594.35		13C4-PFOA	6.320	24580	2.6303	ng/ml			
13C8-PFOS	7.492	45090	5887.97		13C4-PFOS	7.492	48446	2.5094	ng/ml			
507.0 -> 99.0			3671.30	54.8								
13C8-PFOSA	8.701	81434	31435.73		13C4-PFOS	7.492	48446	2.5080	ng/ml			
13C9-PFNA	6.804	100053	9781.41		13C5-PFNA	6.804	127086	1.2795	ng/ml			
13C5-PFPeA	4.212	260642	16659.97		13C2-PFHxA	5.102	162432	5.1073	ng/ml			
13C2-PFDoA	8.136	89080	15635.52		13C2-PFDA	7.253	88819	1.3053	ng/ml			
13C4-PFHpA	5.781	231340	34163.00		13C2-PFHxA	5.102	162432	2.5766	ng/ml			
13C4-PFBA	2.631	299701	66911.45		13C3-PFBA	2.634	133266	10.2945	ng/ml	✔	3	AMS 05/29/24
13C3-PFHxS	6.496	53441	13157.05		18O2-PFHxS	6.495	50357	2.5859	ng/ml			
402.0 -> 99.0			10501.93	51.9								
13C3-PFBS	5.120	77054	17774.43		18O2-PFHxS	6.495	50357	2.5766	ng/ml			
301.9 -> 98.9			5133.38	36.8								
13C3-HFPODA	5.367	205495	33867.59		13C2-PFHxA	5.102	162432	10.4112	ng/ml			
287.0 -> 185.0			7131.30	45.5								
13C2-PFTeDA	8.950	121002	52767.10		13C2-PFDA	7.253	88819	1.3149	ng/ml			
D9-NEtFOSE	10.227	266672	64864.58		13C4-PFOS	7.492	48446	25.3883	ng/ml			
D3-NMeFOSA	10.043	26193	18158.80		13C4-PFOS	7.492	48446	2.4694	ng/ml			
D3-NMeFOSAA	7.266	190384	46128.34		13C4-PFOS	7.492	48446	5.2879	ng/ml			
D5-NEtFOSA	10.354	26898	13487.94		13C4-PFOS	7.492	48446	2.4910	ng/ml			
D5-NEtFOSAA	7.453	92585	16391.47		13C4-PFOS	7.492	48446	5.1366	ng/ml			
D7-NMeFOSE	9.881	249512	68470.03		13C4-PFOS	7.492	48446	25.4192	ng/ml			

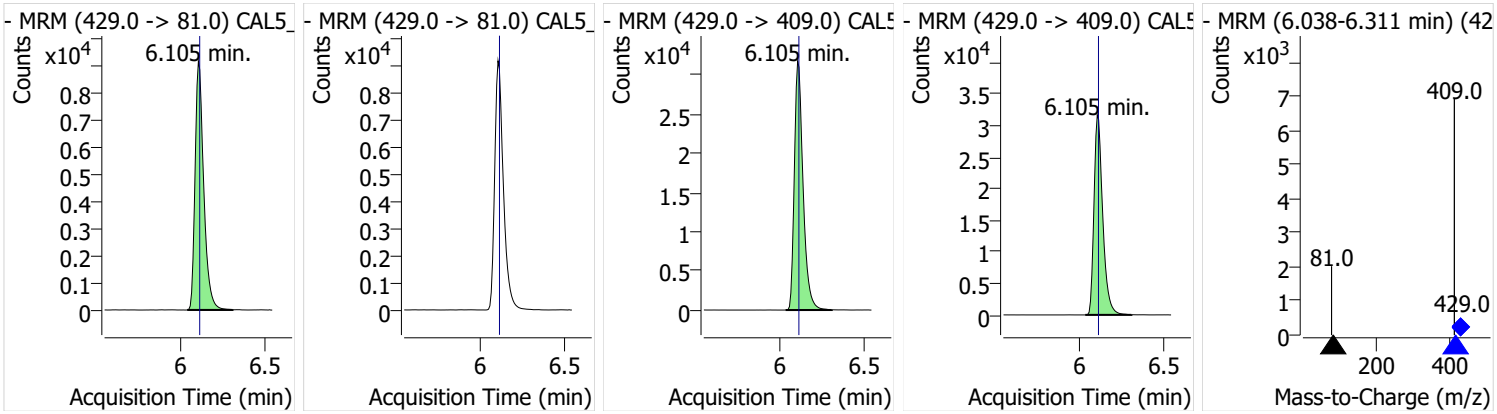
11Cl-PF3OUdS



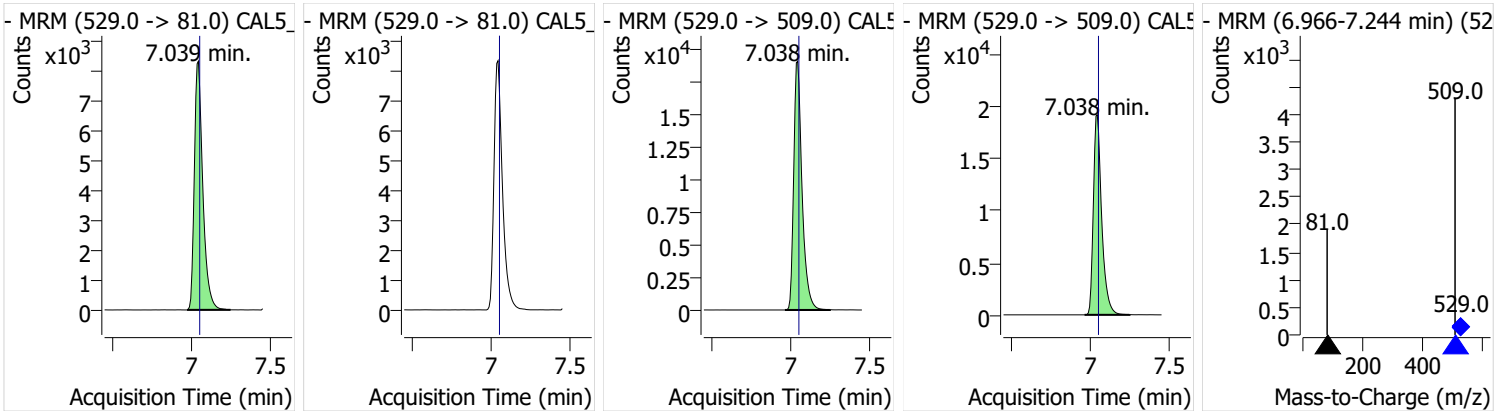
13C2-4:2FTS - ISTD



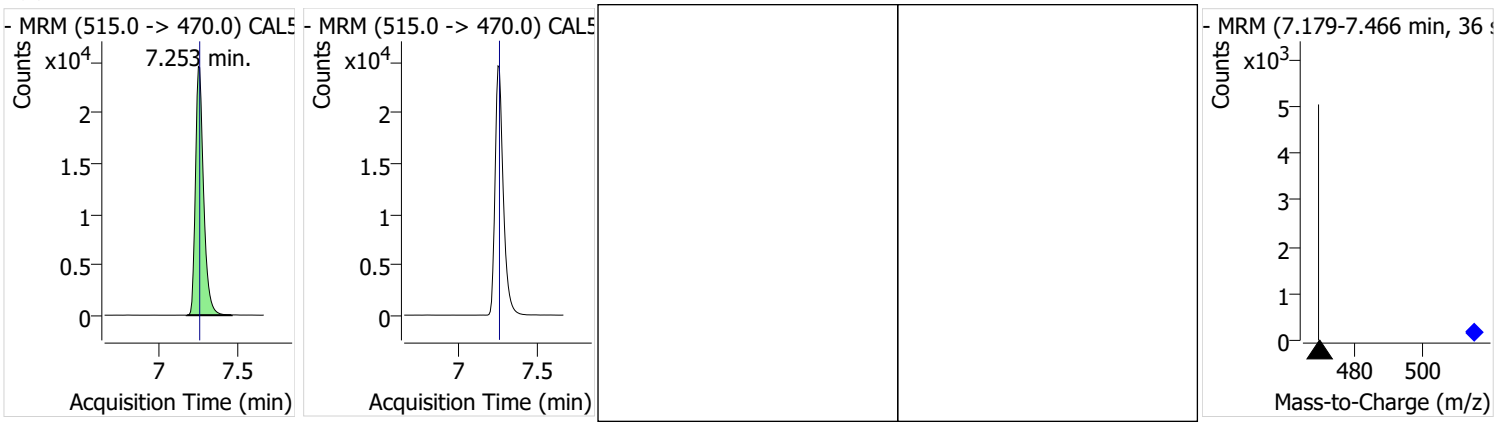
13C2-6:2FTS - ISTD



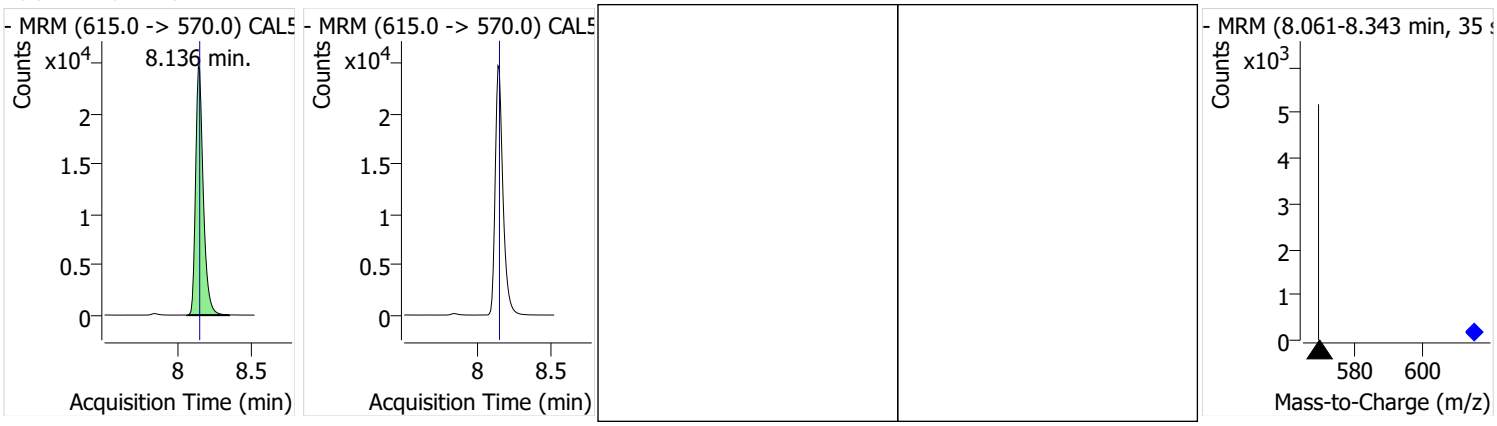
13C2-8:2FTS - ISTD



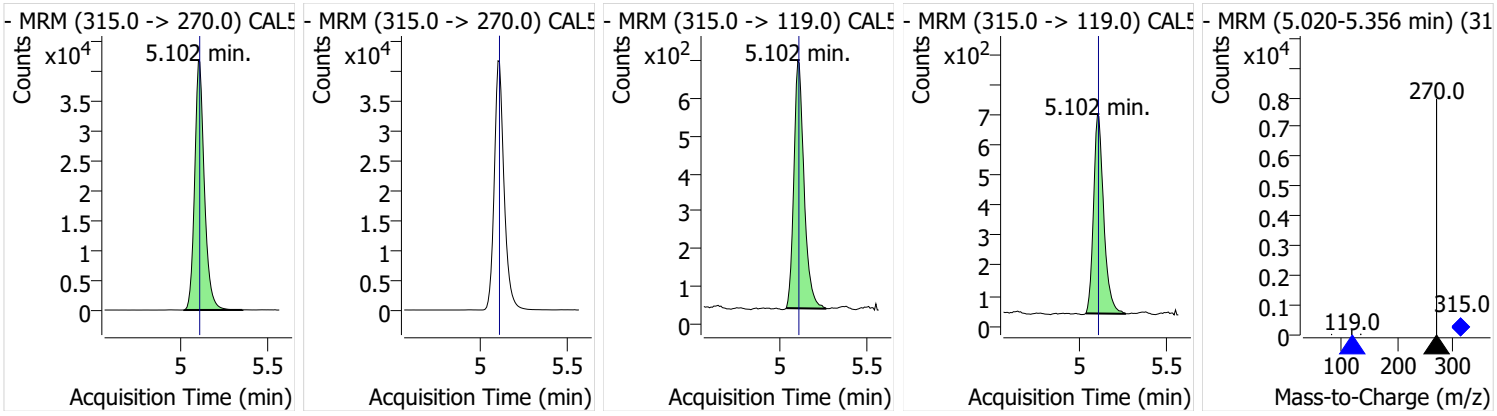
13C2-PFDA



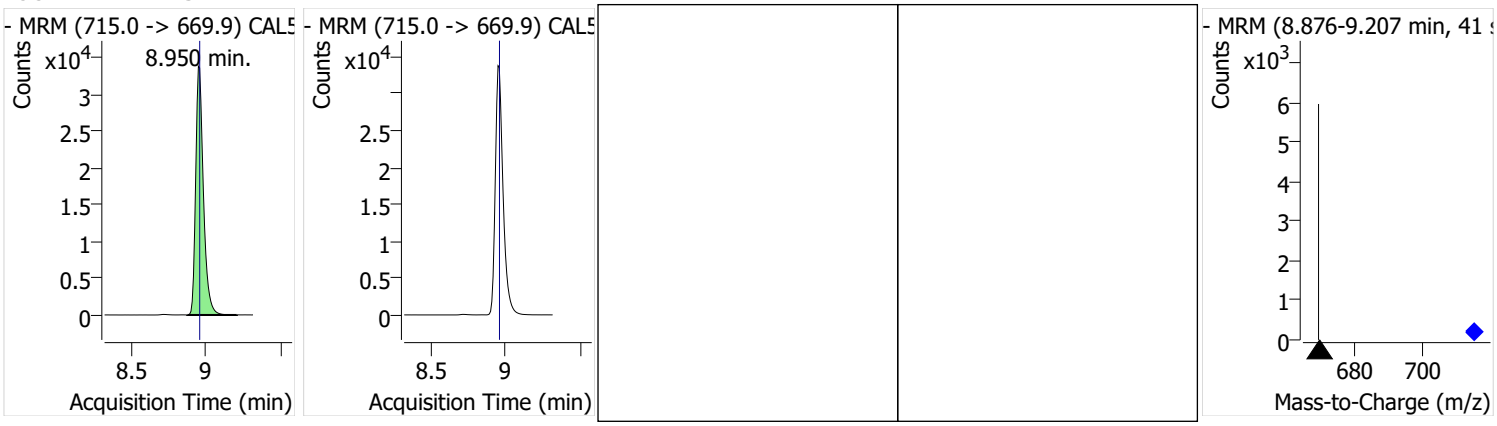
13C2-PFDoA - ISTD



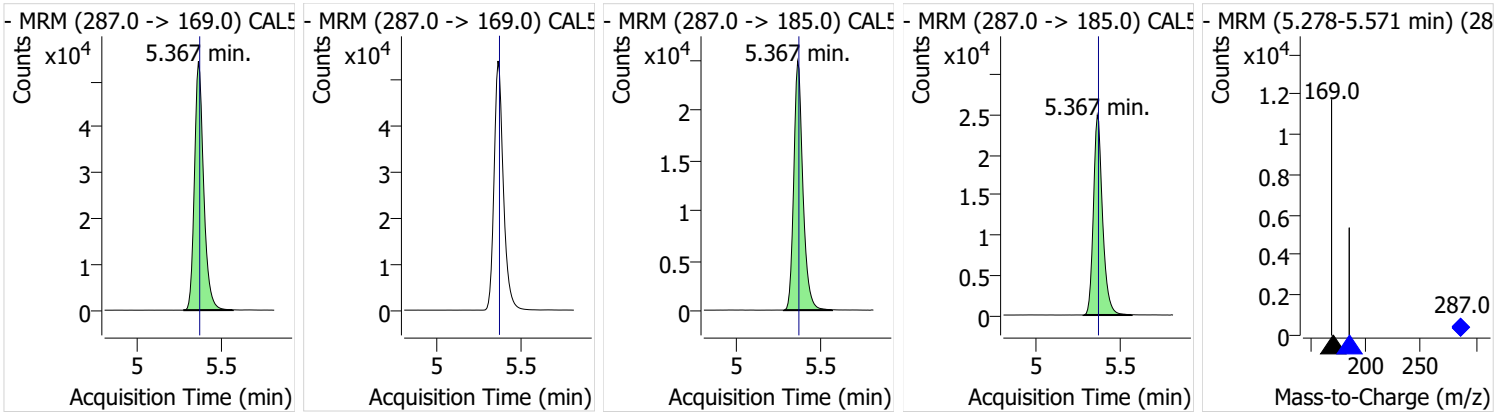
13C2-PFHxA



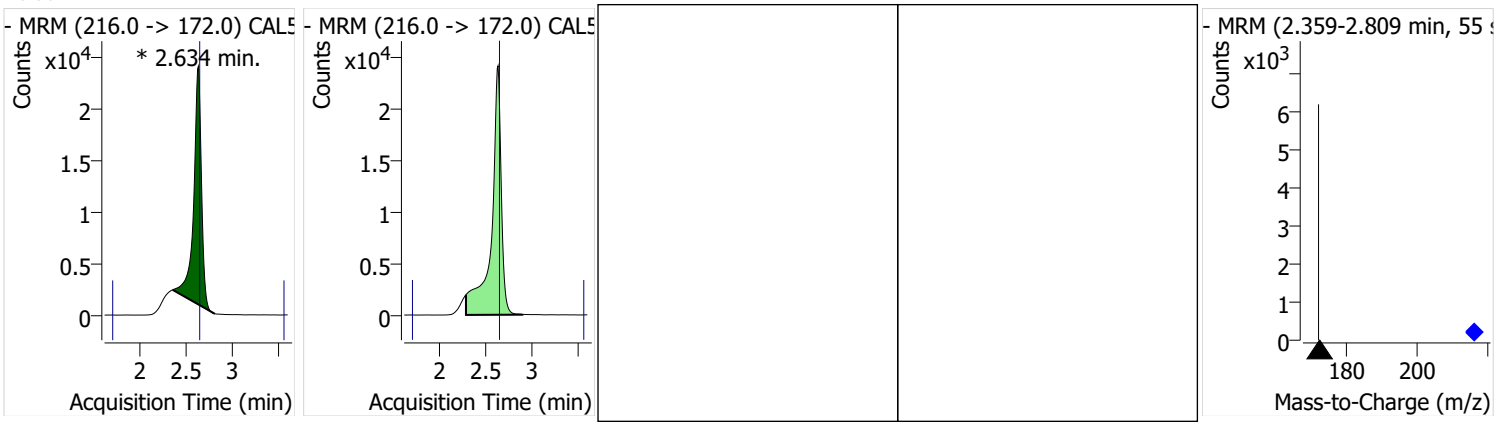
13C2-PFTeDA - ISTD



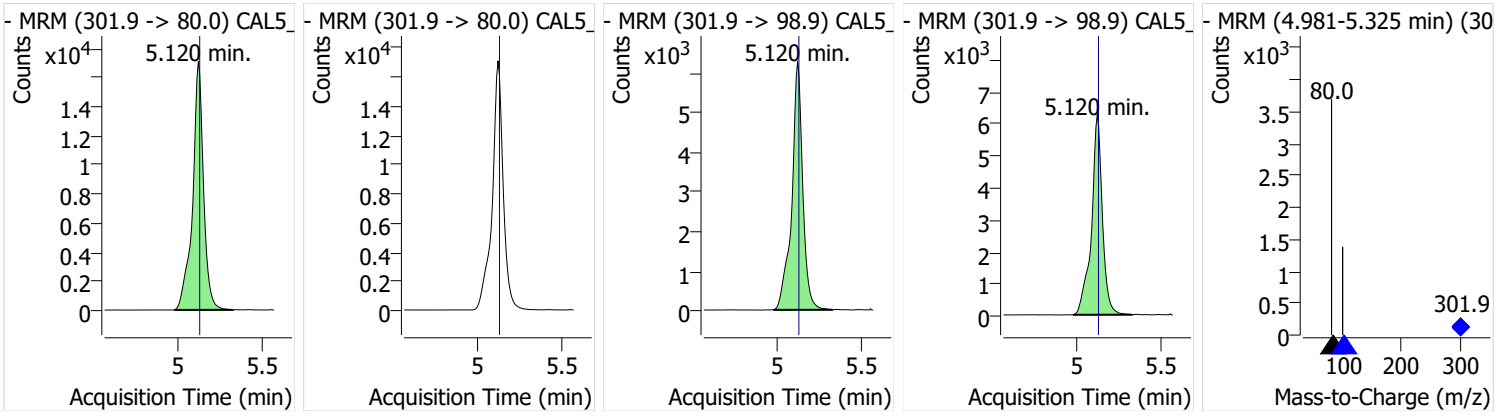
13C3-HFPODA - ISTD



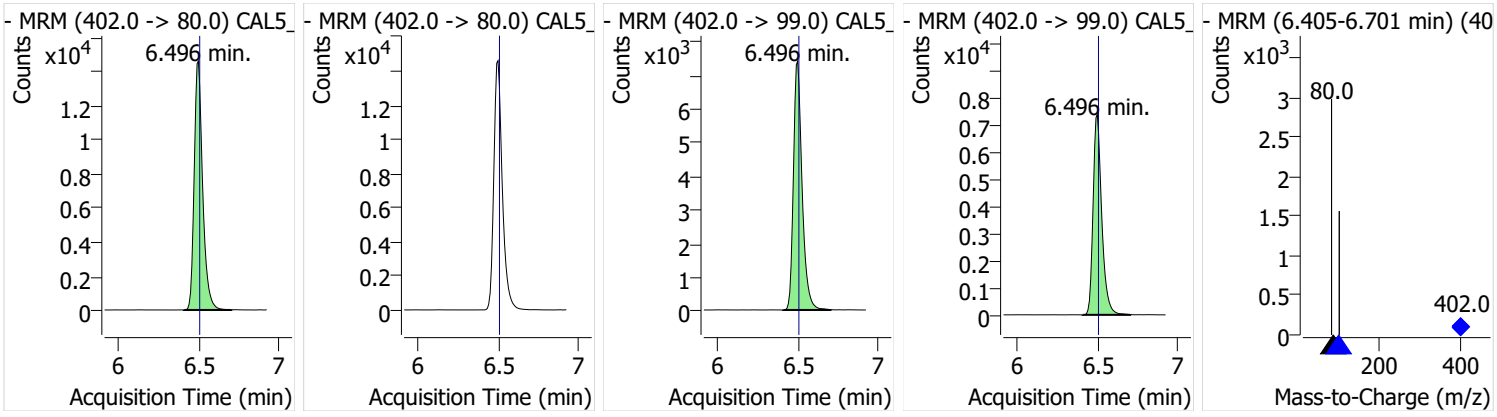
13C3-PFBA



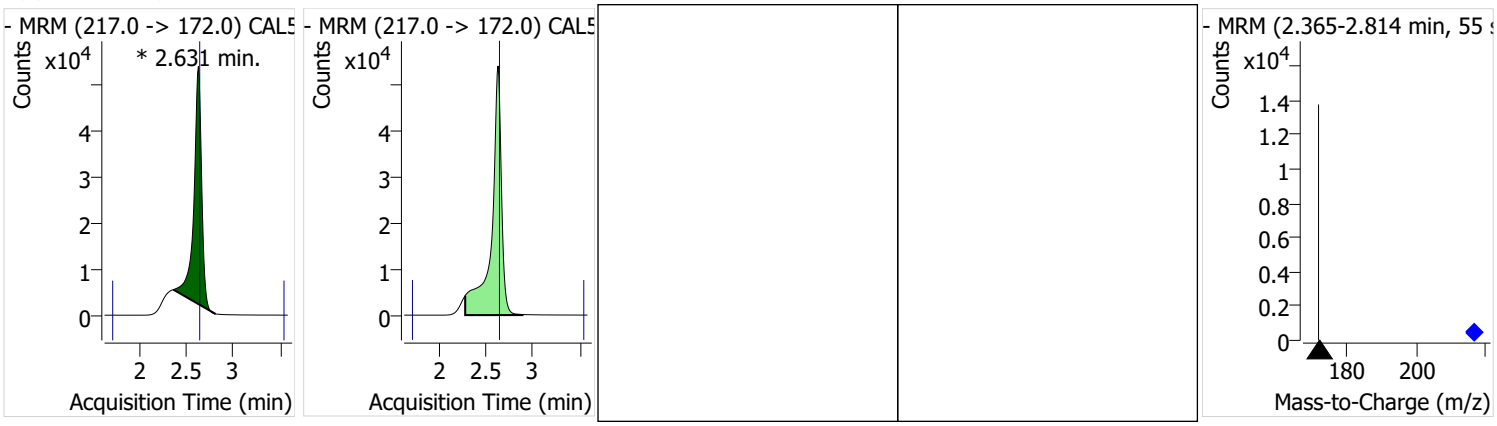
13C3-PFBS - ISTD



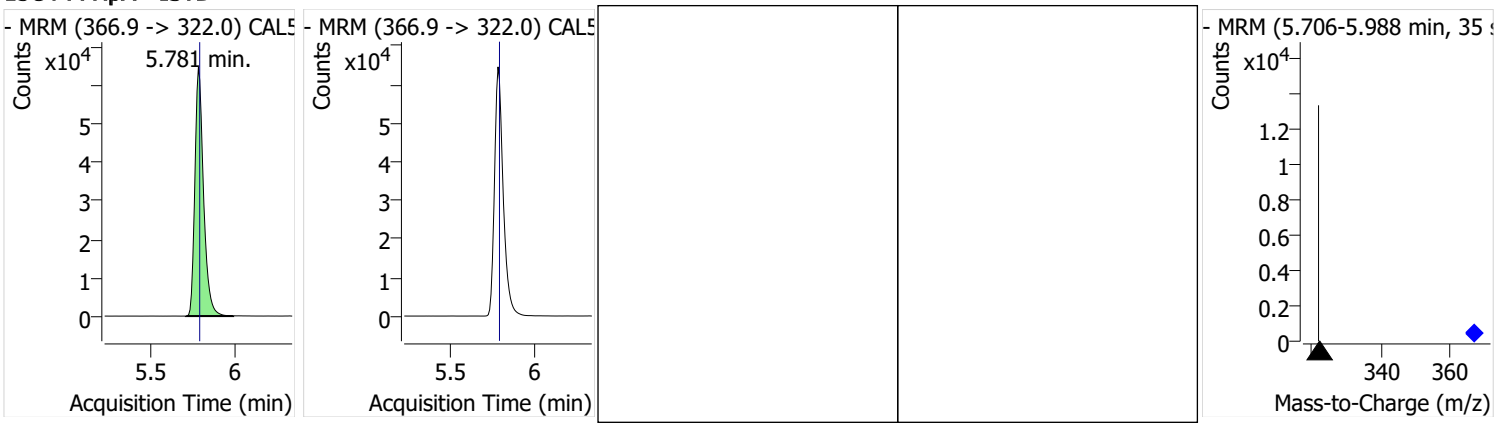
13C3-PFHxS - ISTD



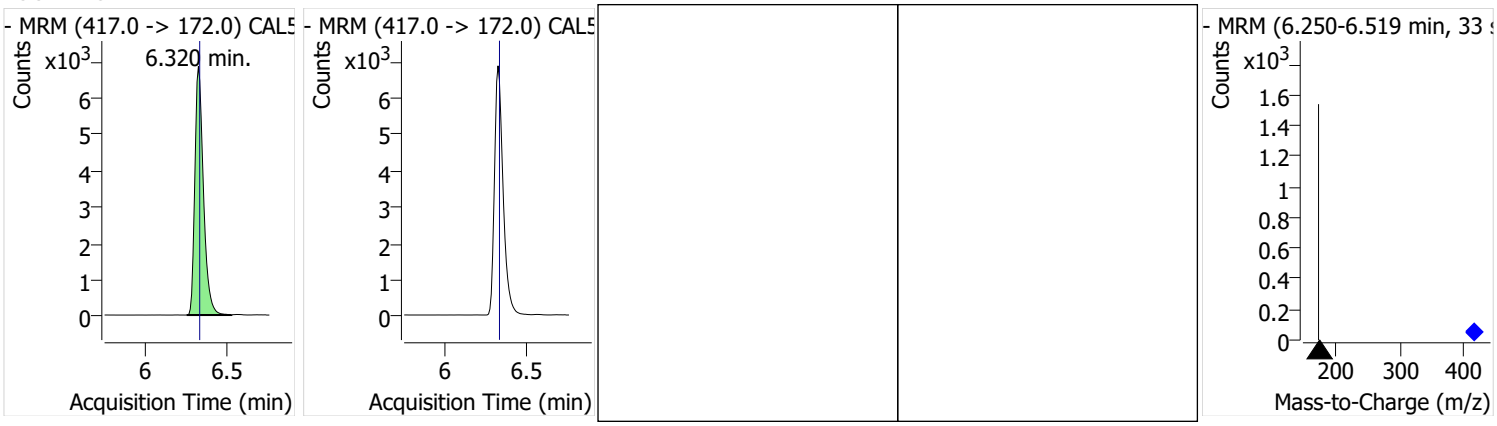
13C4-PFBA - ISTD



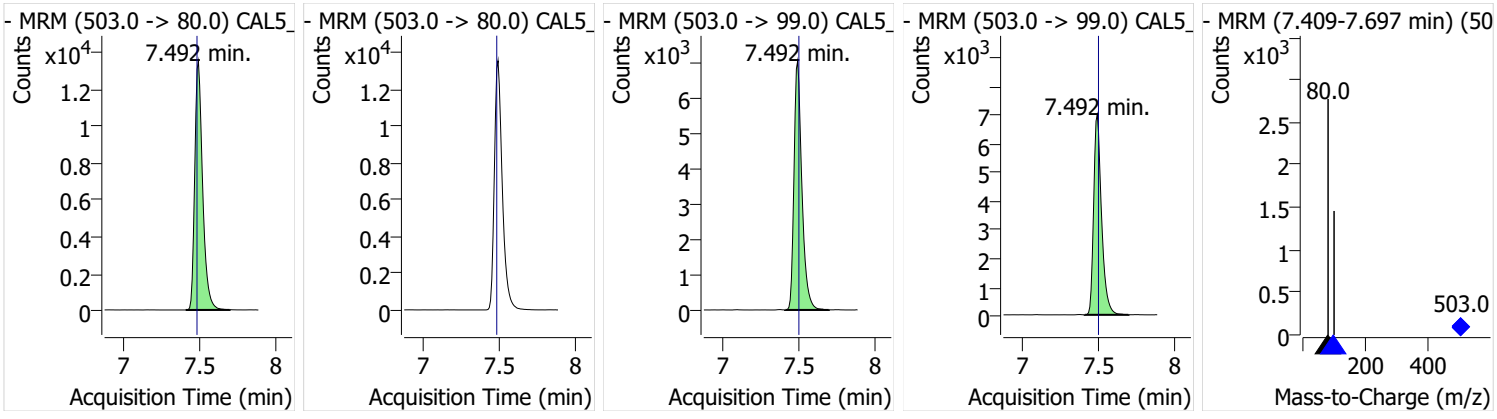
13C4-PFHpA - ISTD



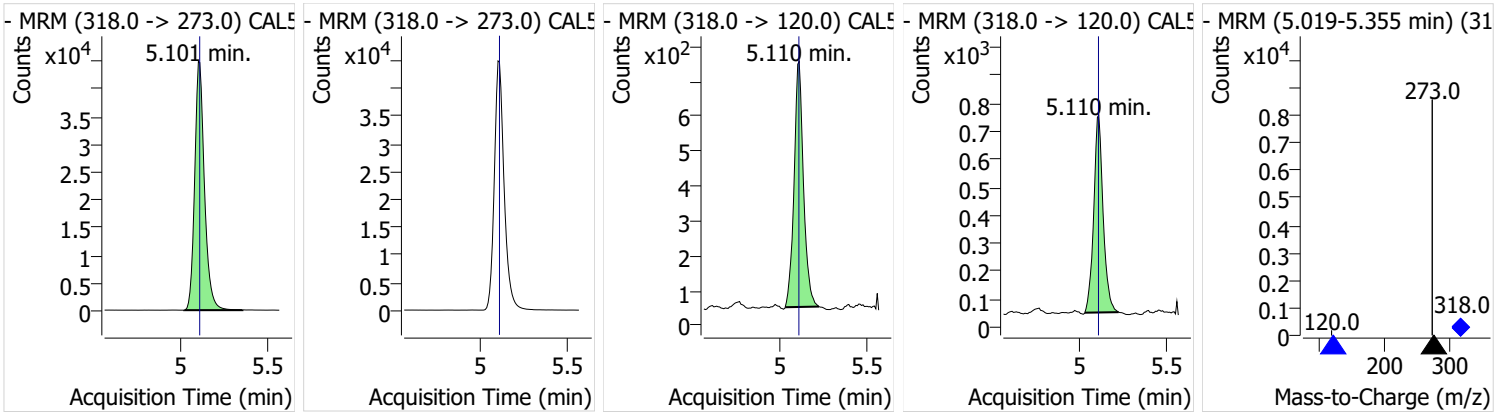
13C4-PFOA



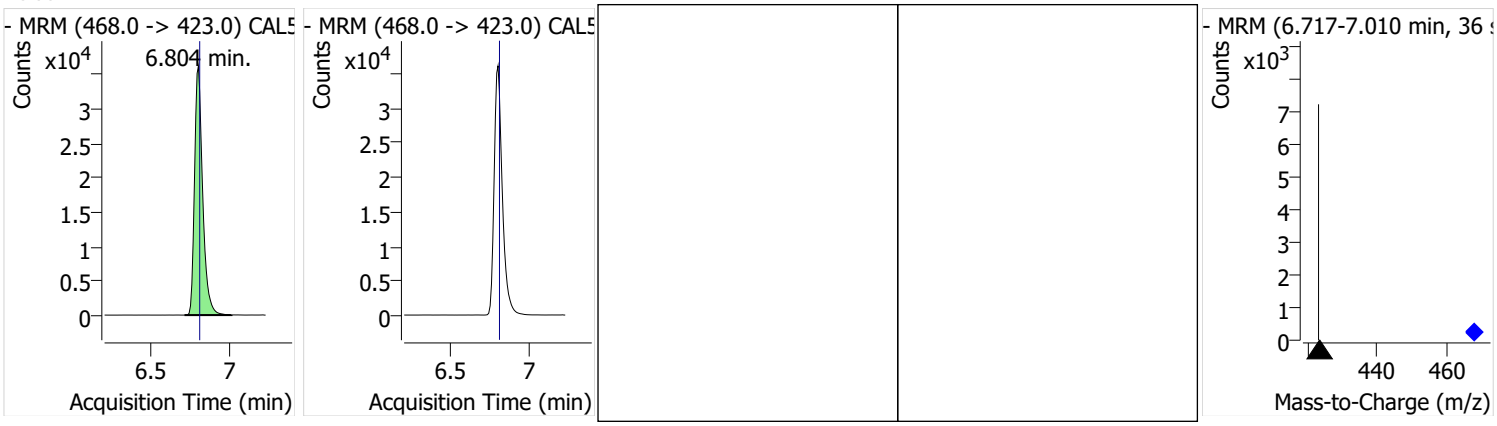
13C4-PFOS



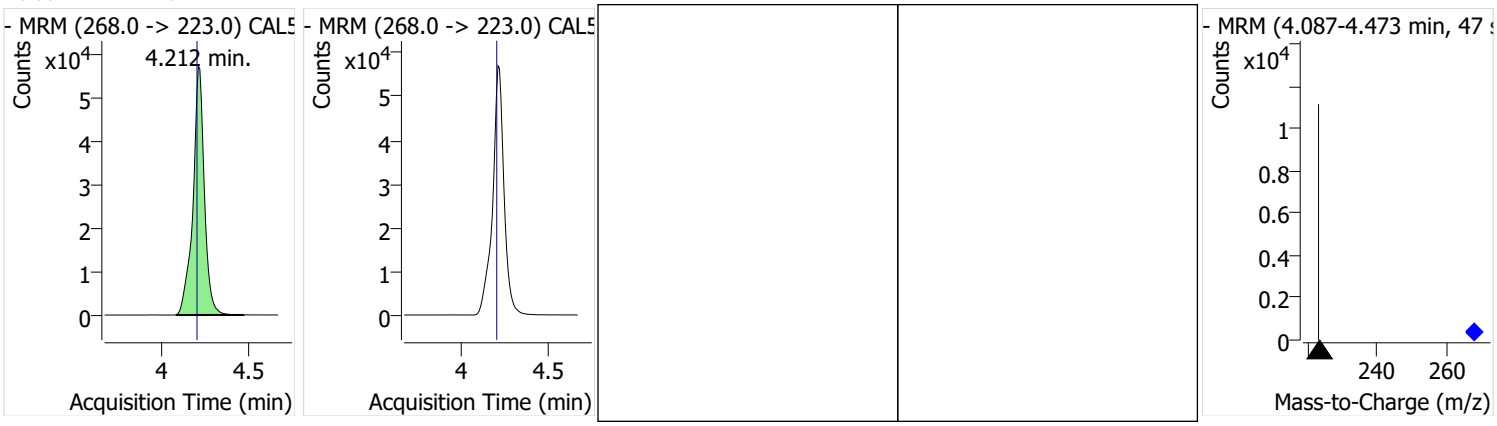
13C5-PFHxA - ISTD



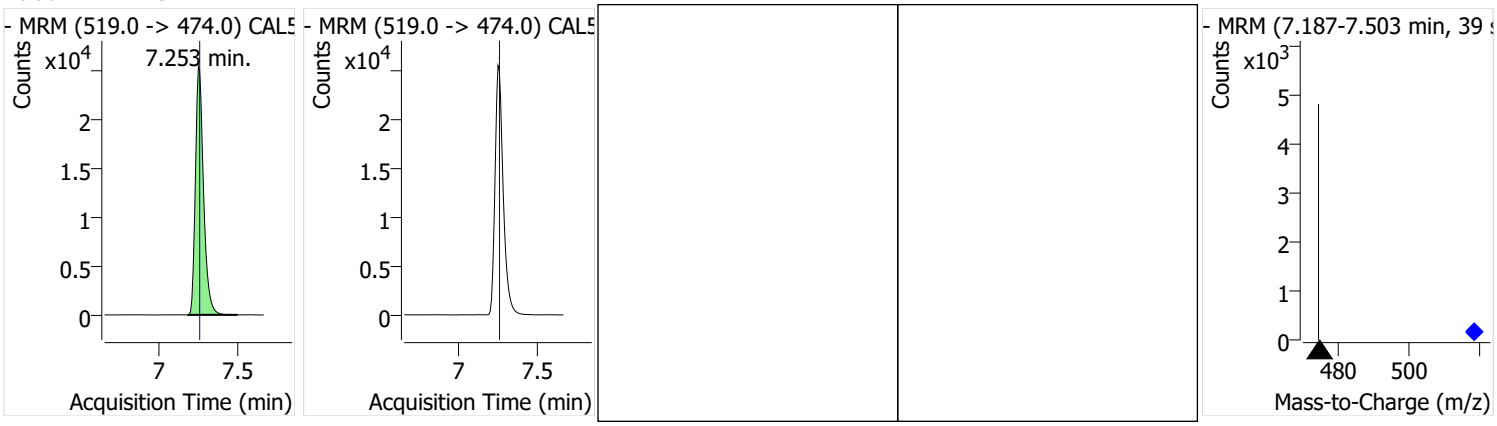
13C5-PFNA



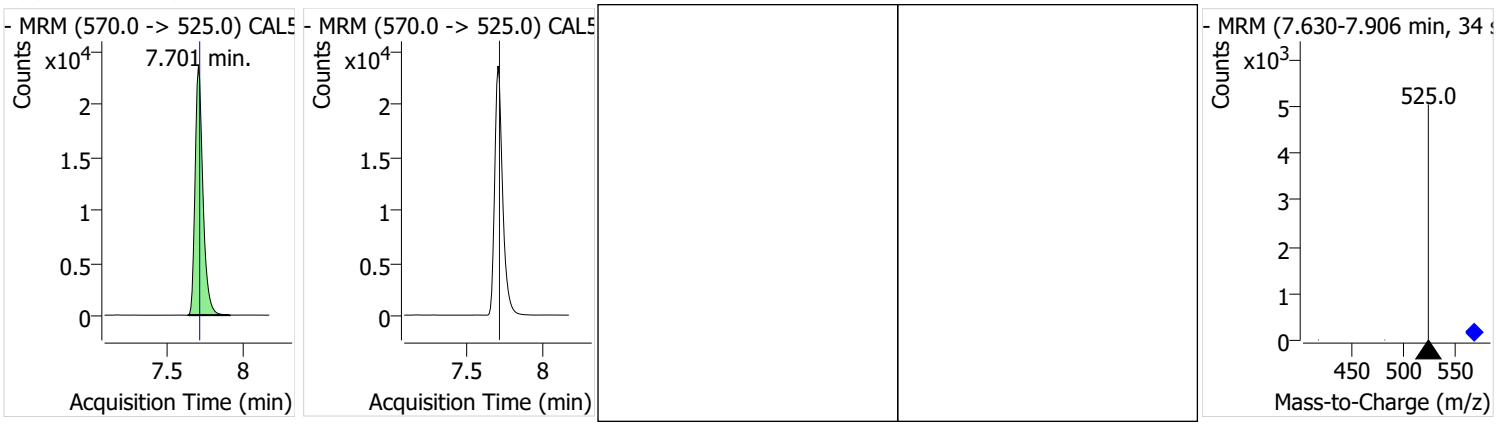
13C5-PFPeA - ISTD



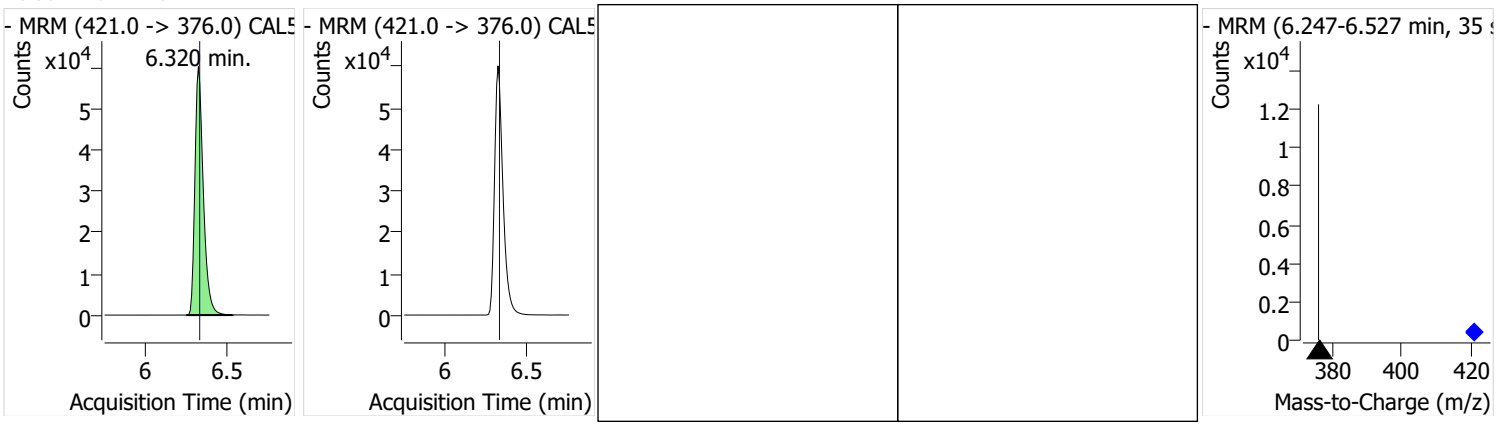
13C6-PFDA - ISTD



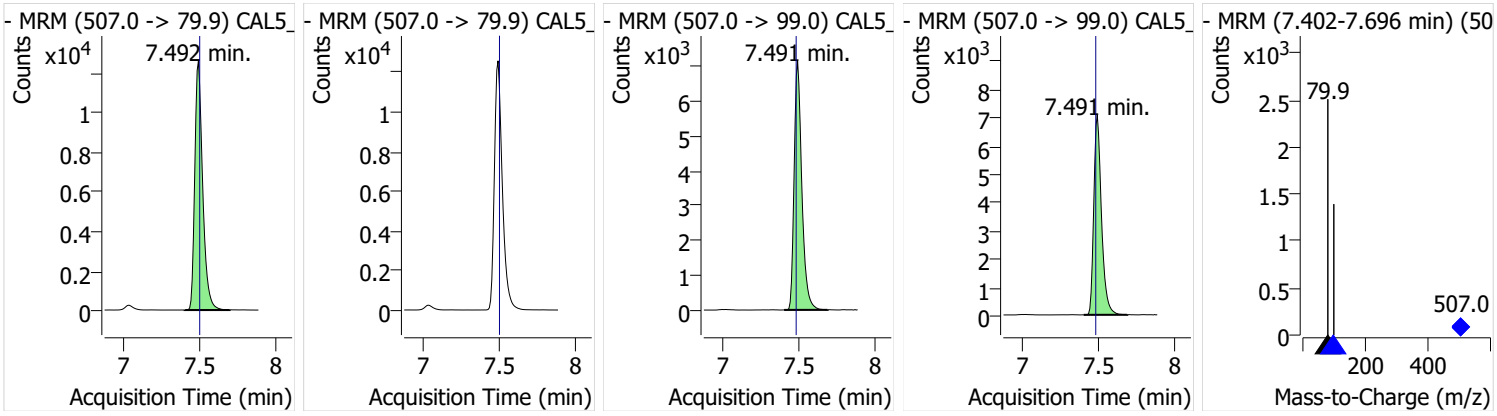
13C7-PFUnA - ISTD



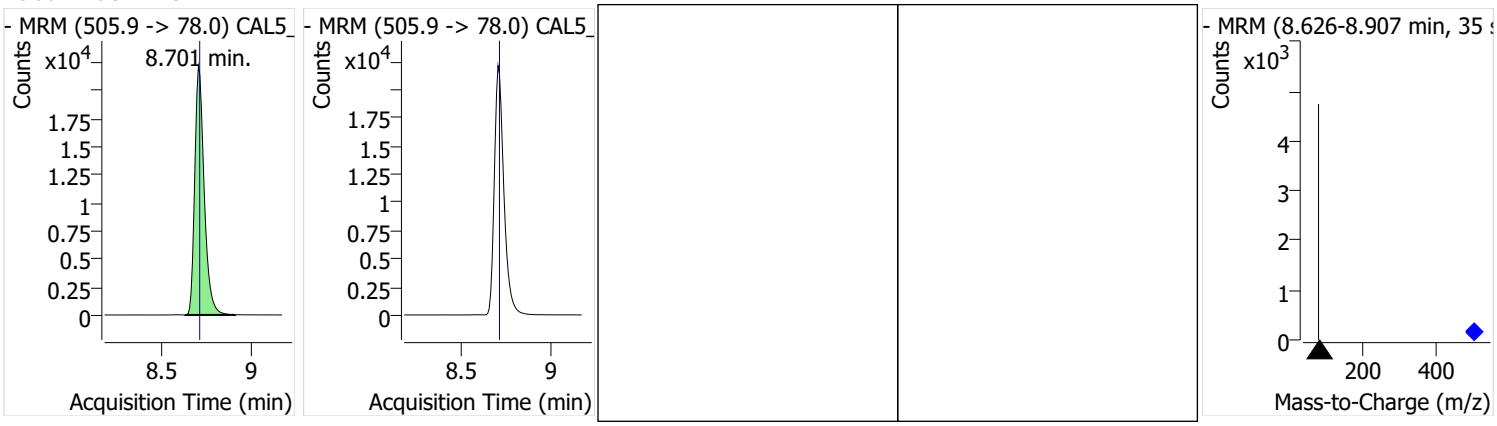
13C8-PFOA - ISTD



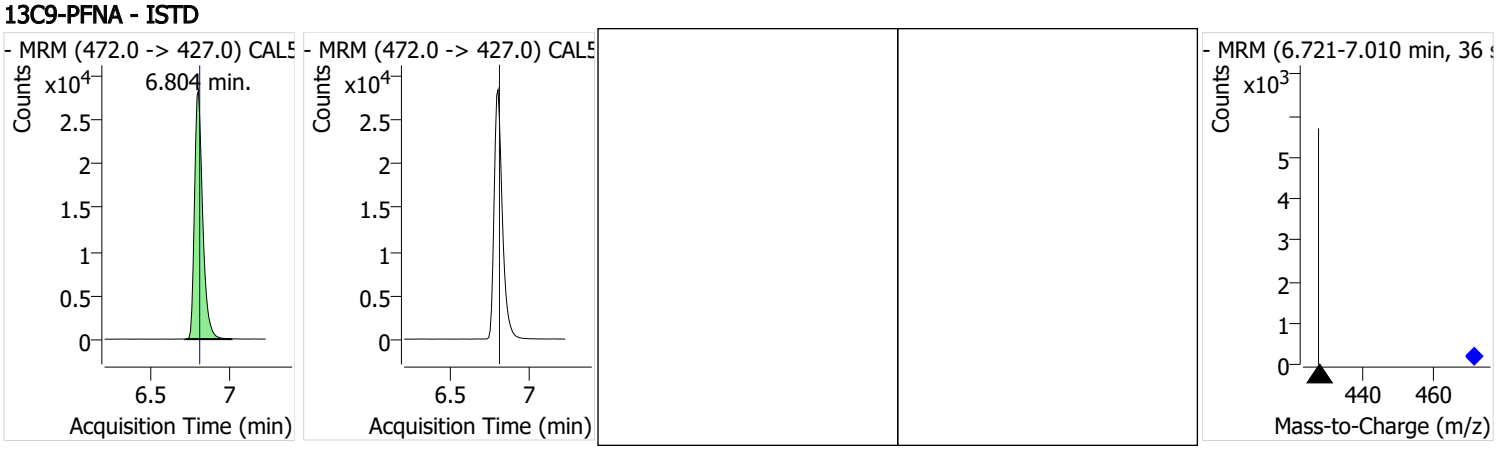
13C8-PFOS - ISTD



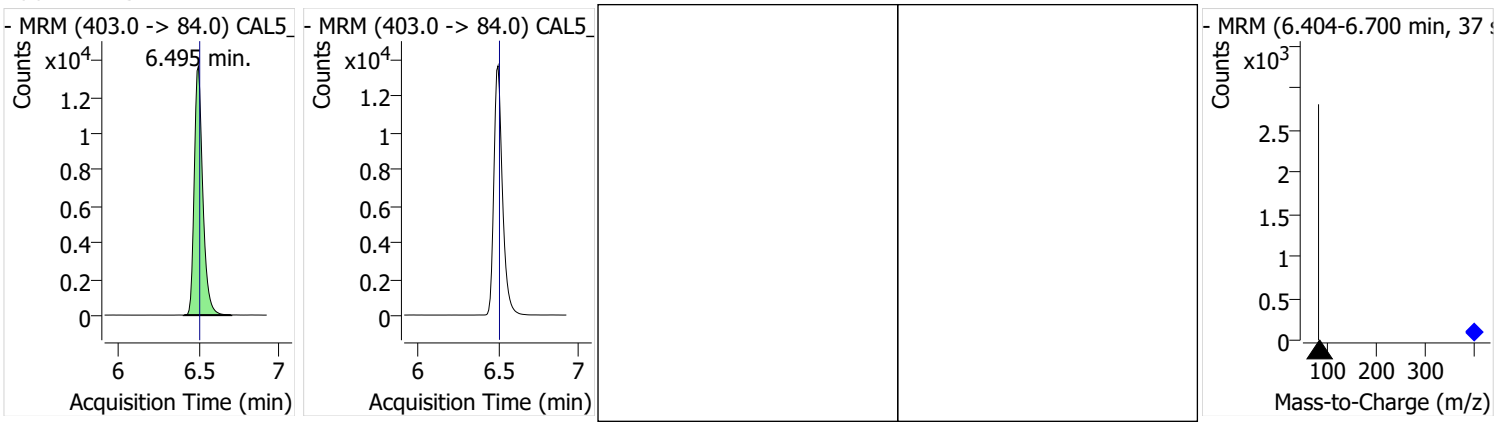
13C8-PFOSA - ISTD



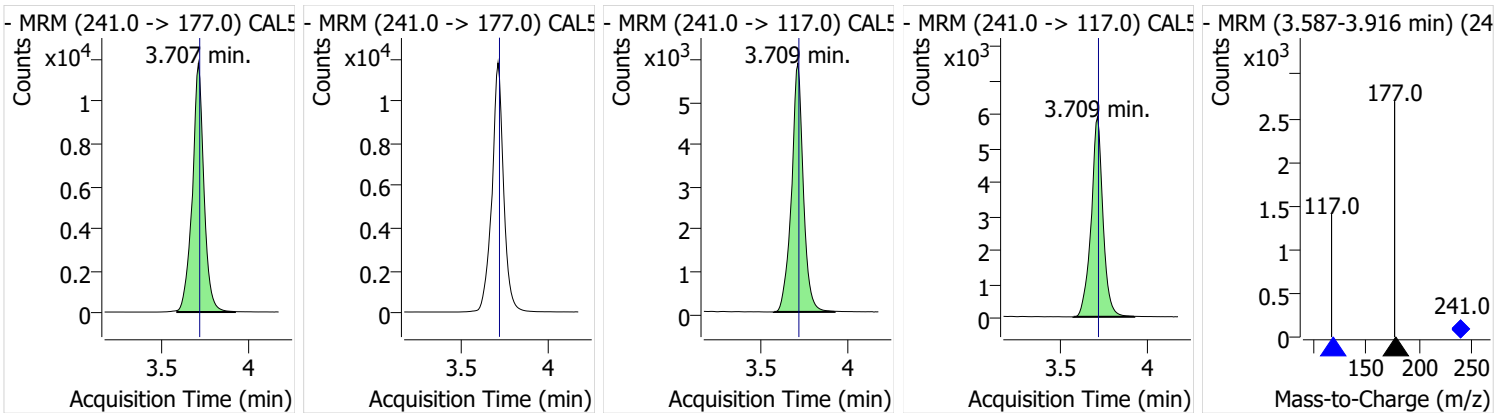
13C9-PFNA - ISTD



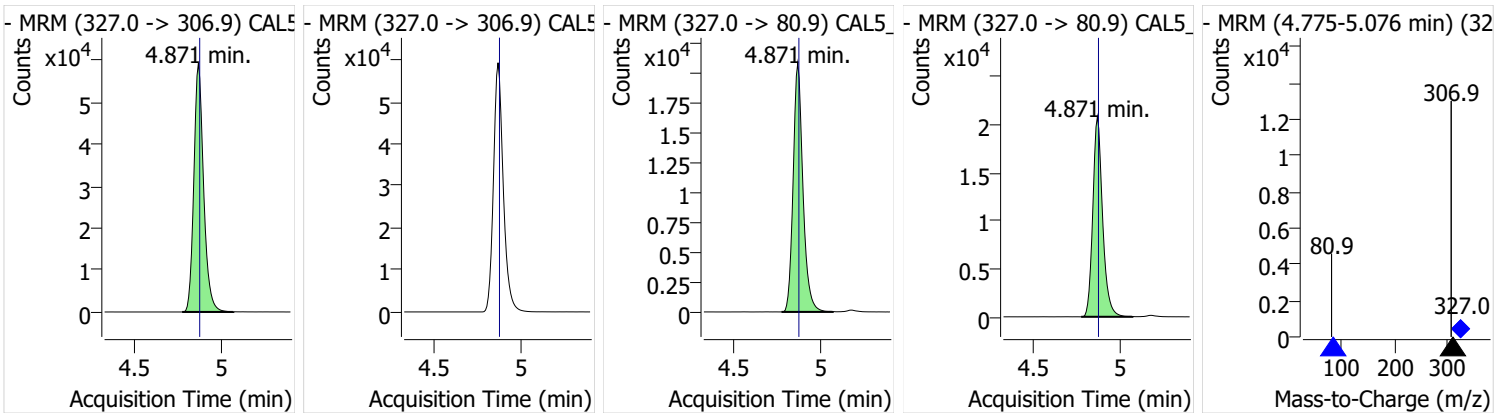
18O2-PFHxS



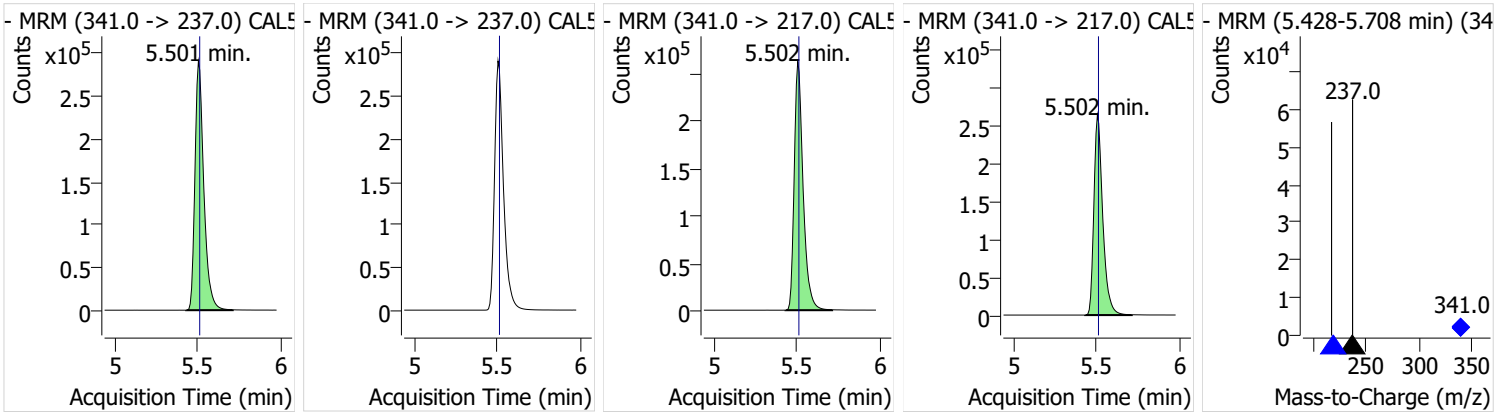
3:3FTCA



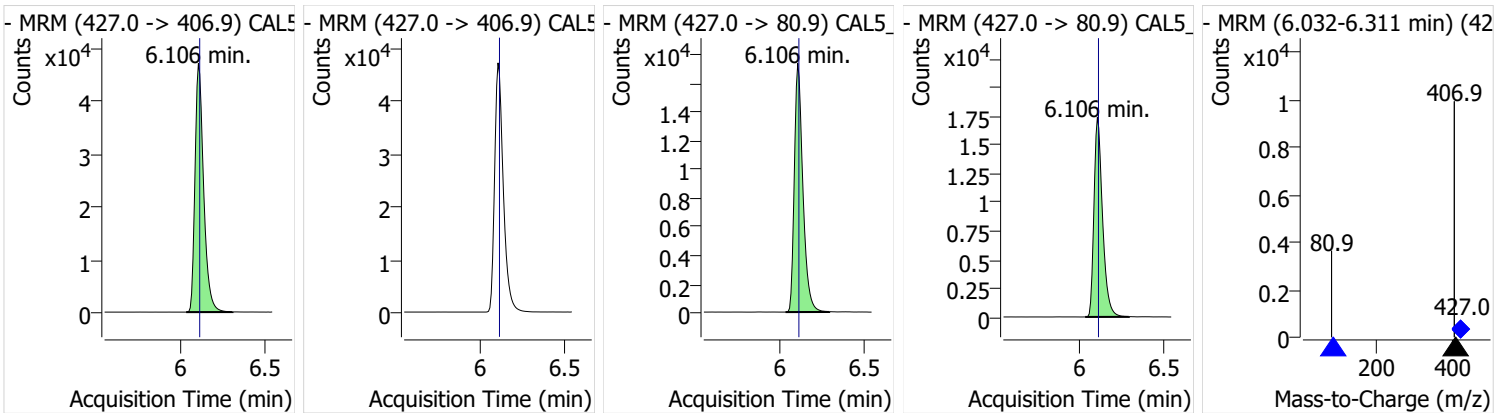
4:2FTS



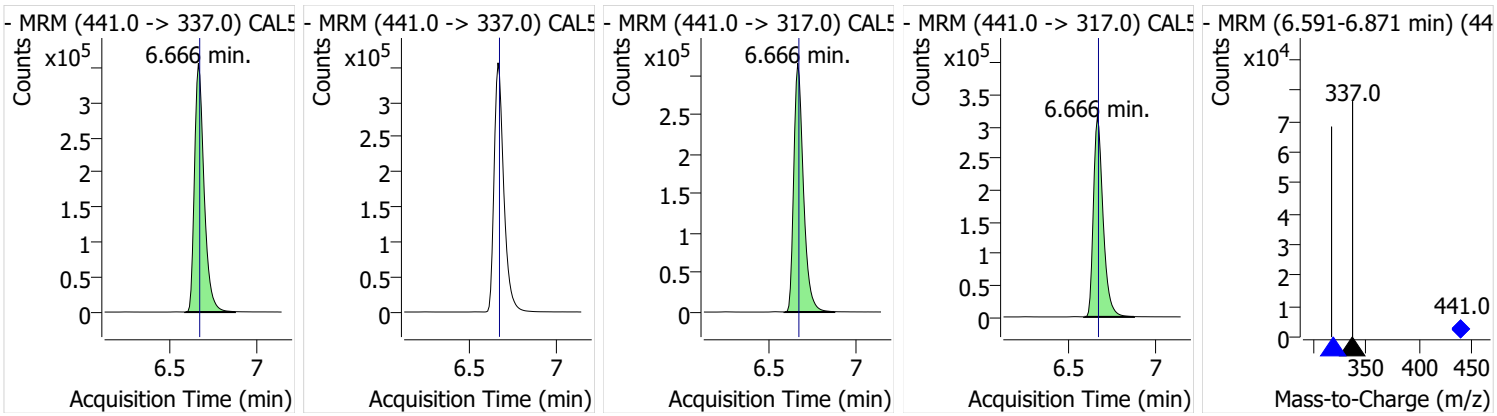
5:3FTCA



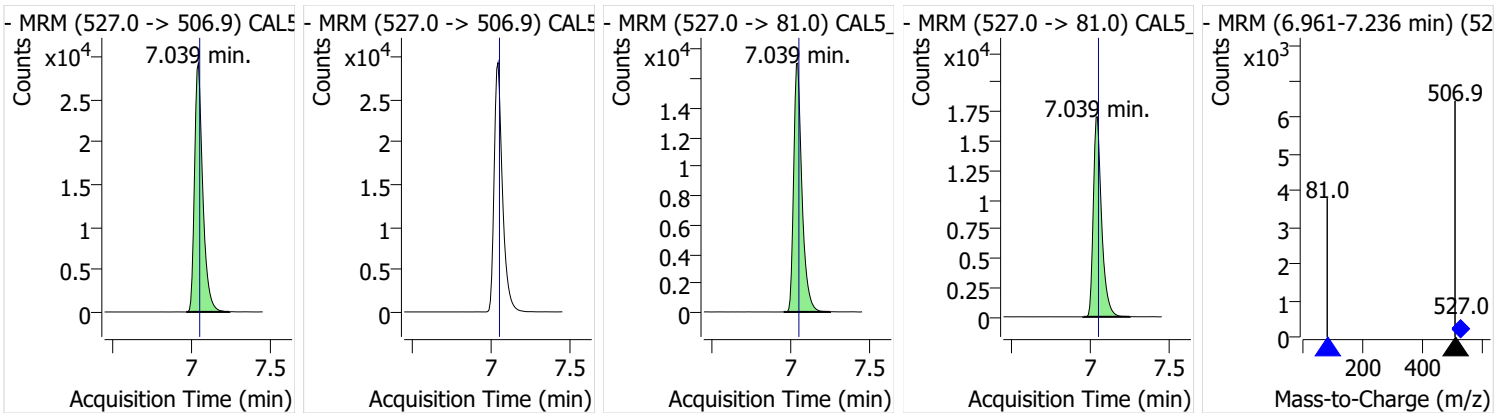
6:2FTS



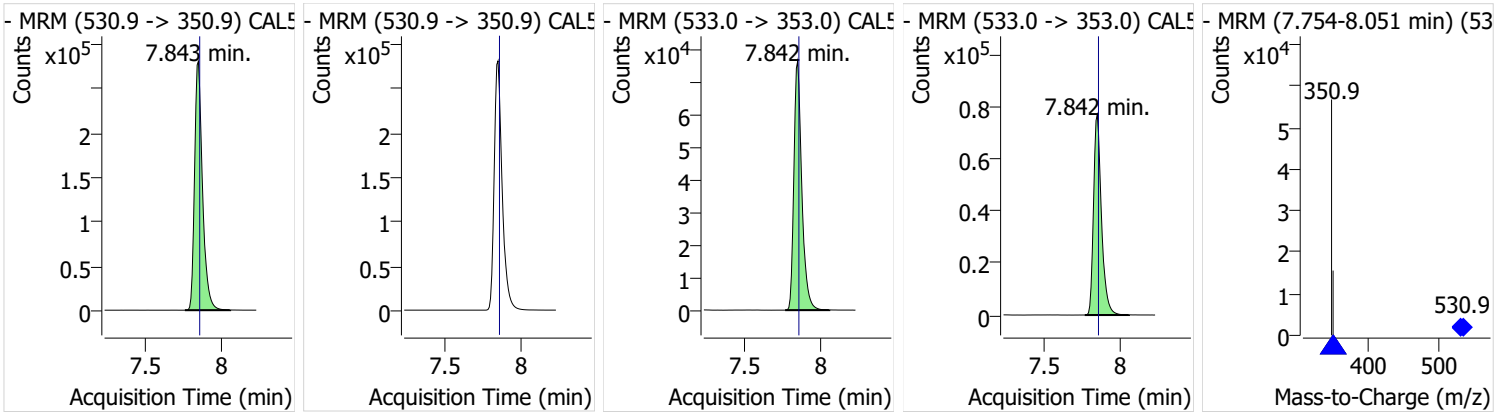
7:3FTCA



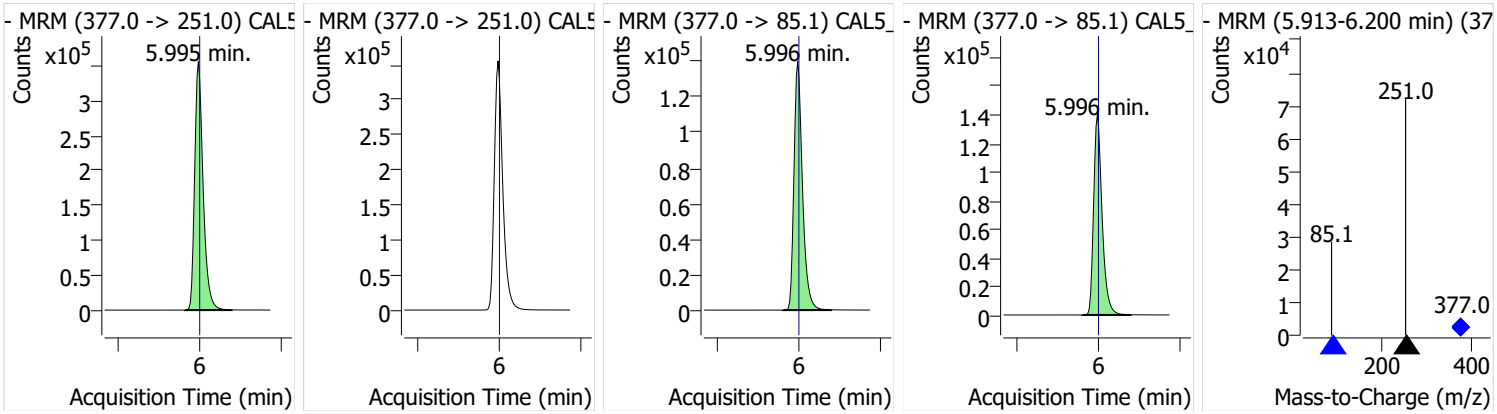
8:2FTS



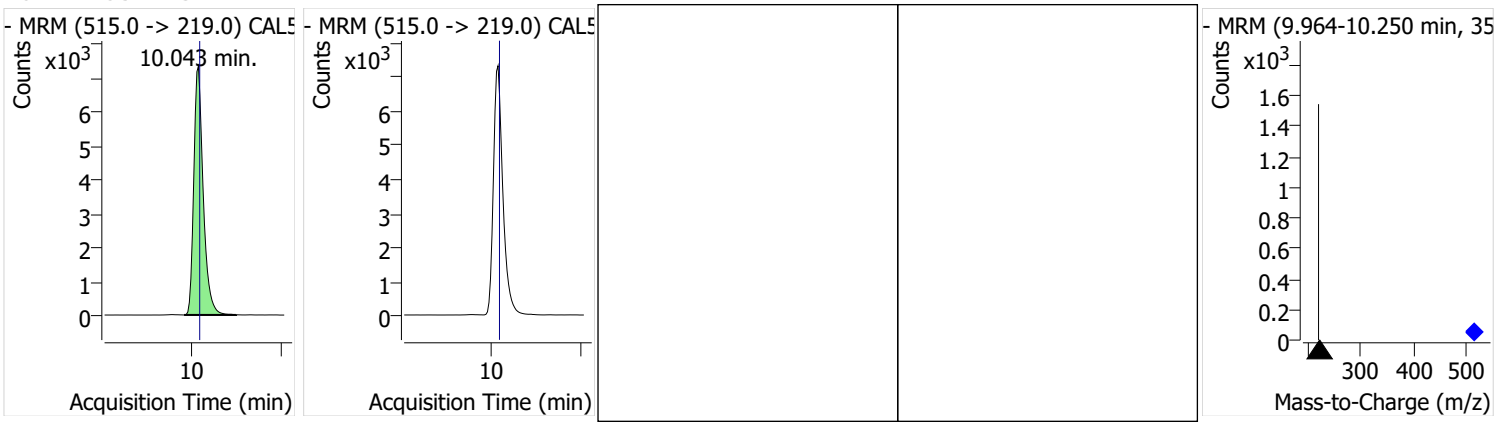
9Cl-PF3ONS



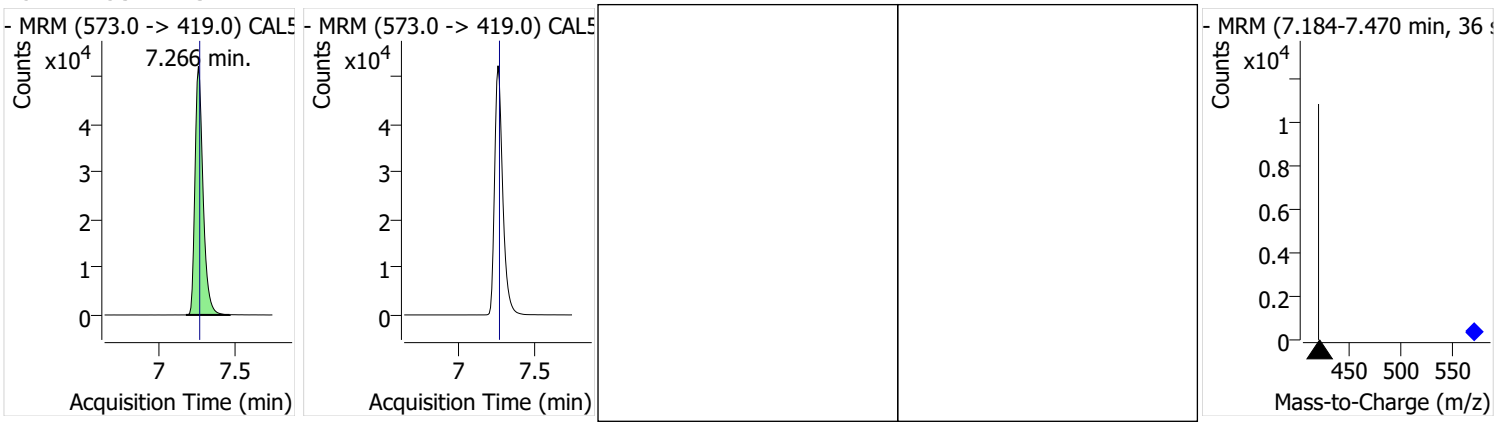
ADONA



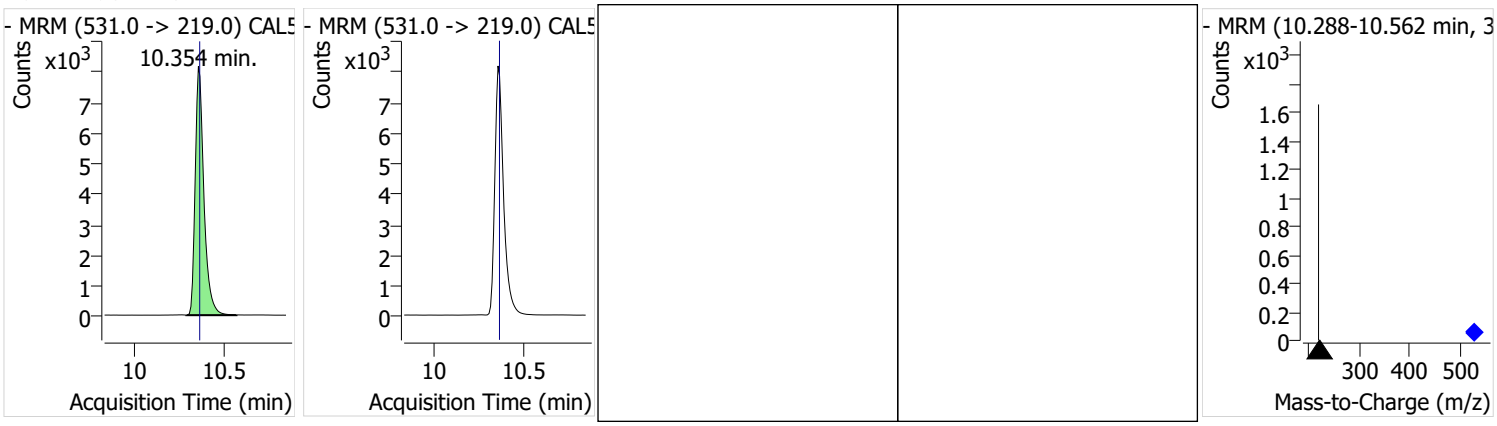
D3-NMeFOSA - ISTD



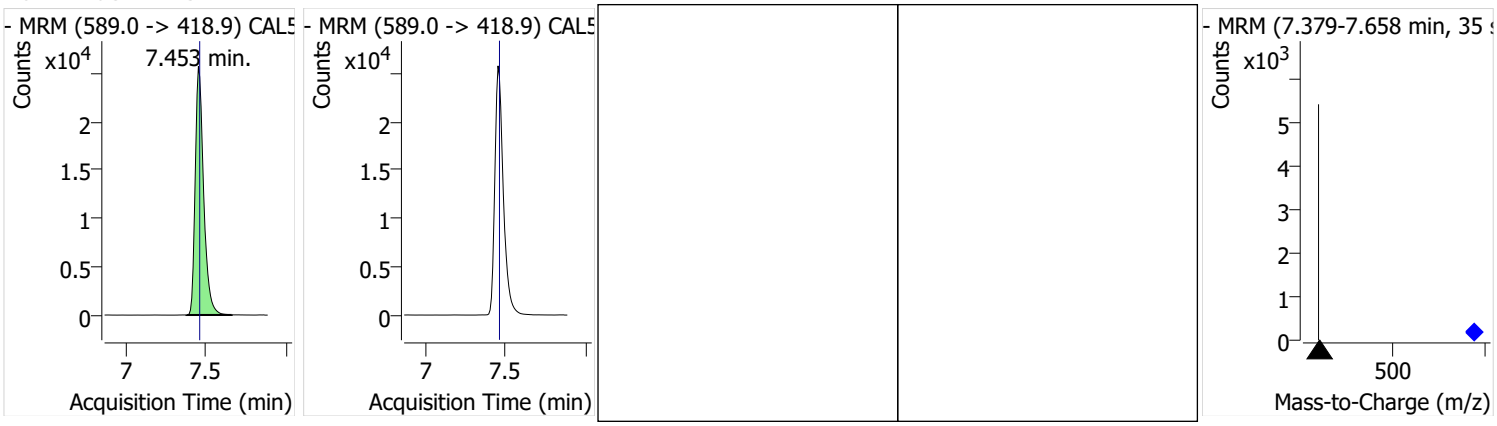
D3-NMeFOSAA - ISTD



D5-NEtFOSA - ISTD

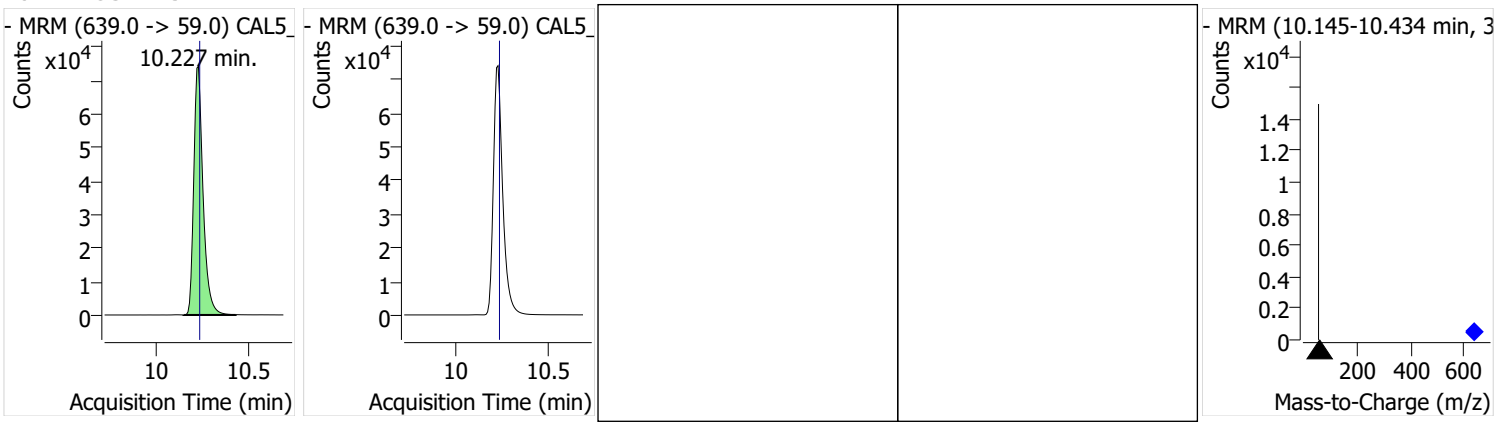


D5-NEtFOSAA - ISTD

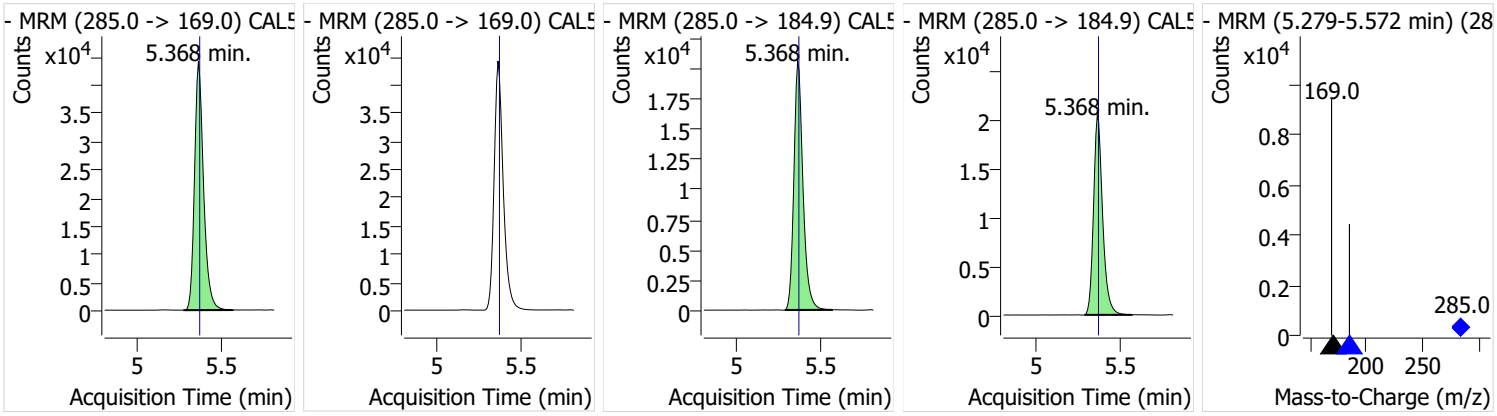


D7-NMeFOSE - ISTD

D9-NEtFOSE - ISTD



HFPO-DA



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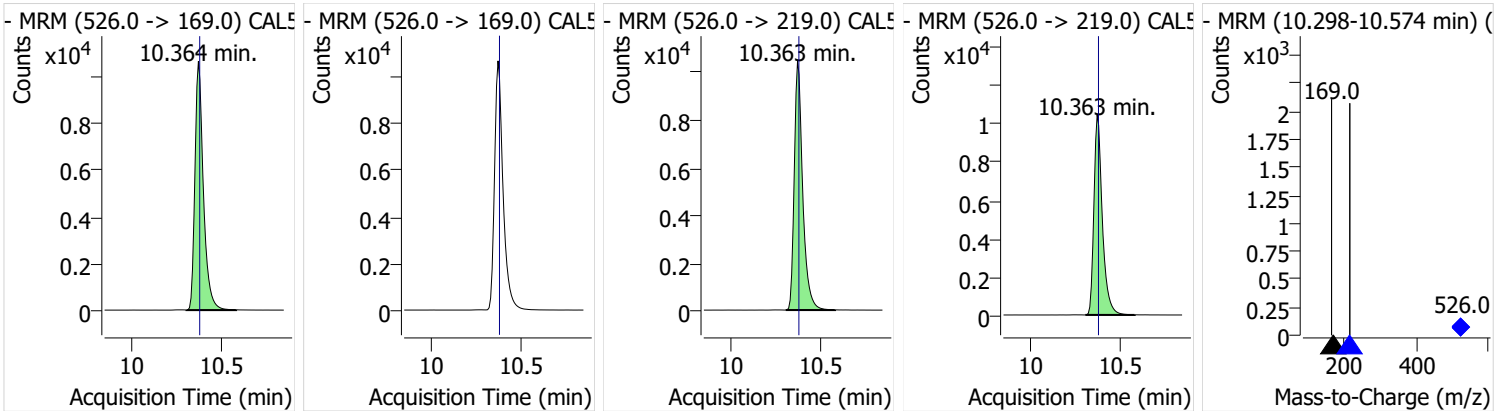

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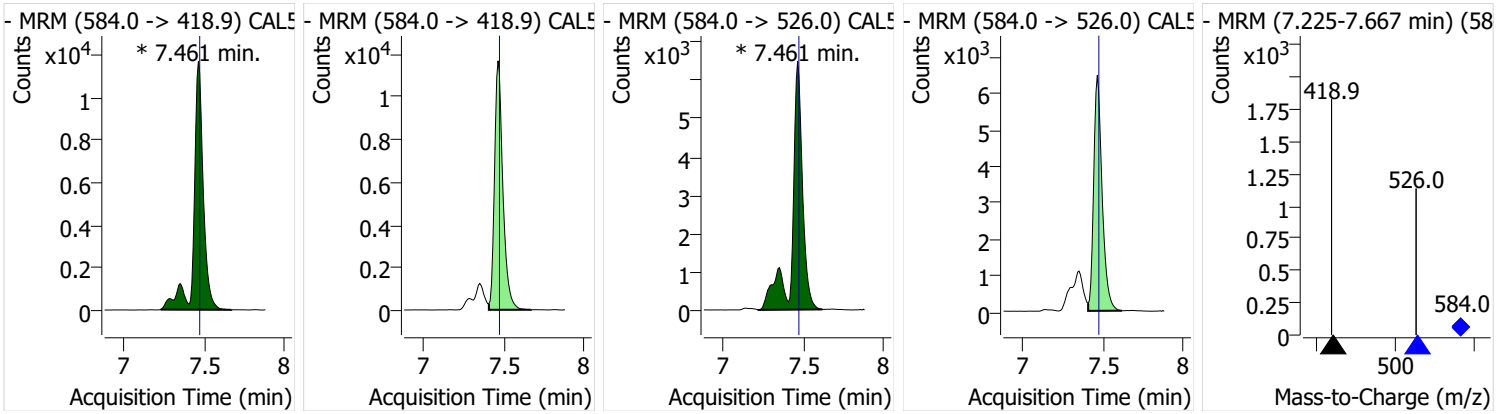

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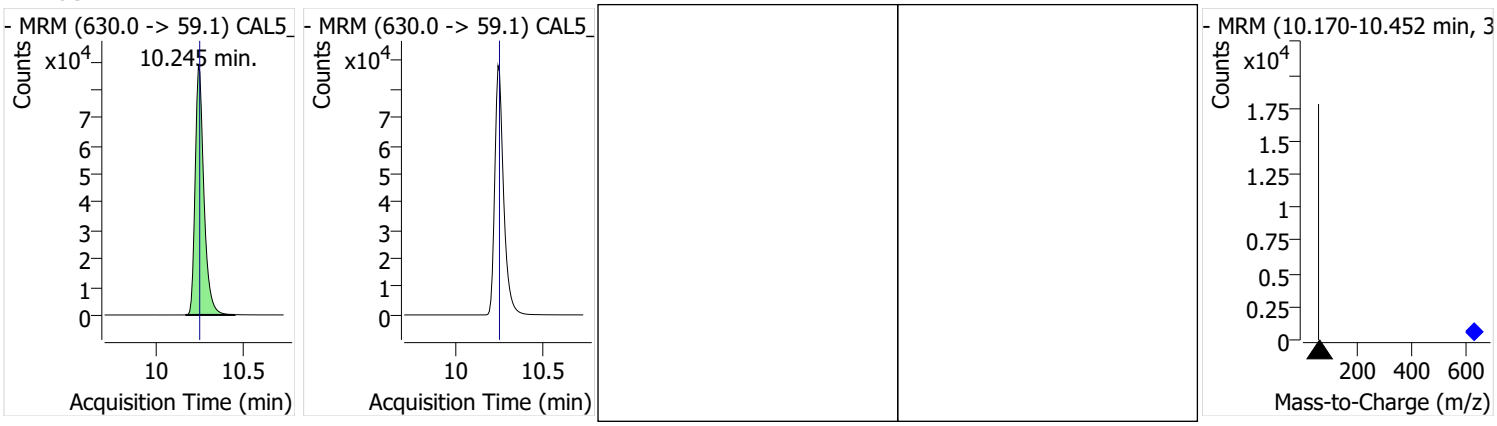

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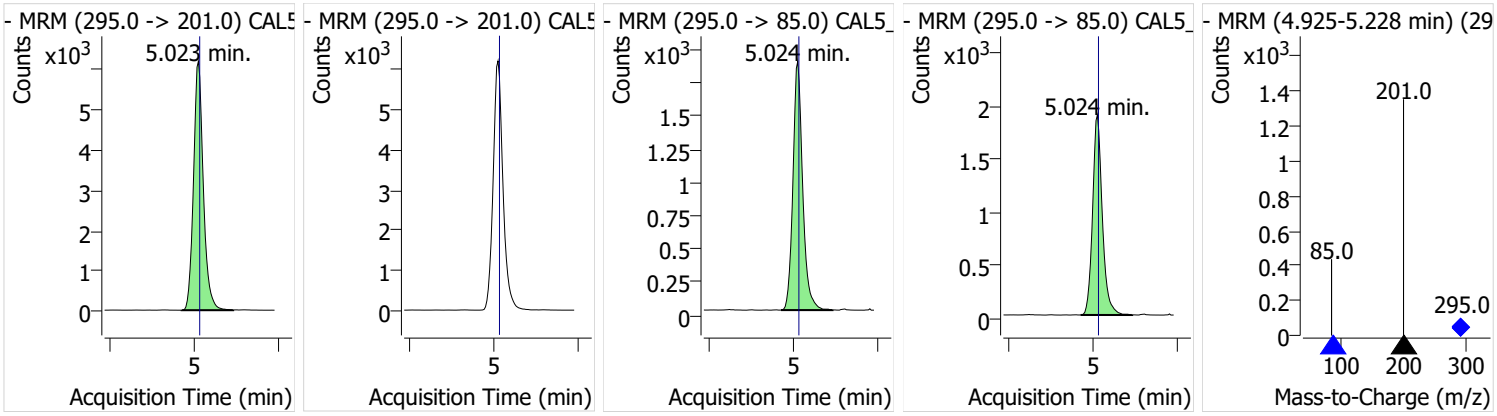
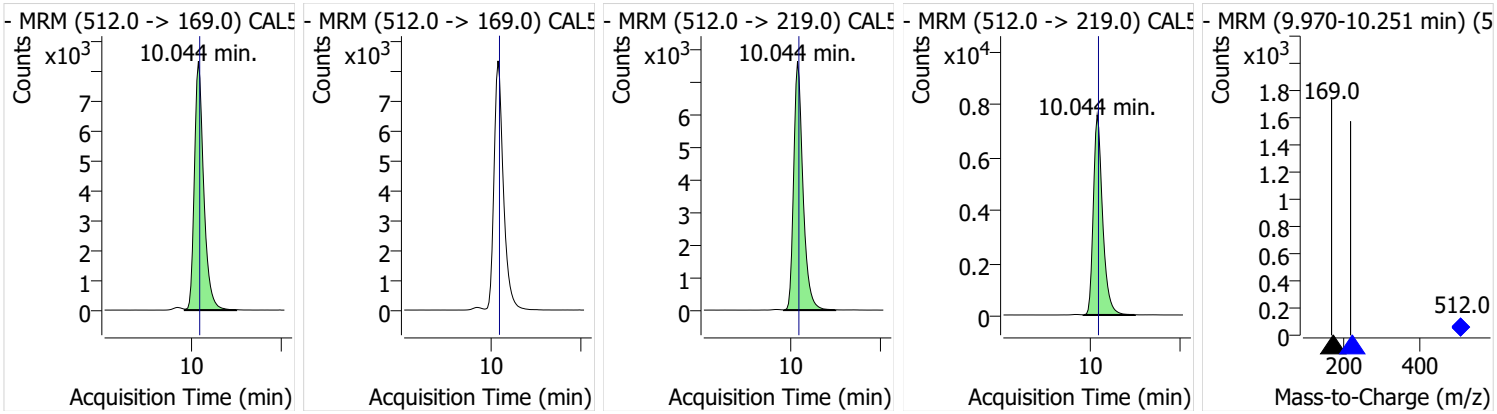


NMeFOSA



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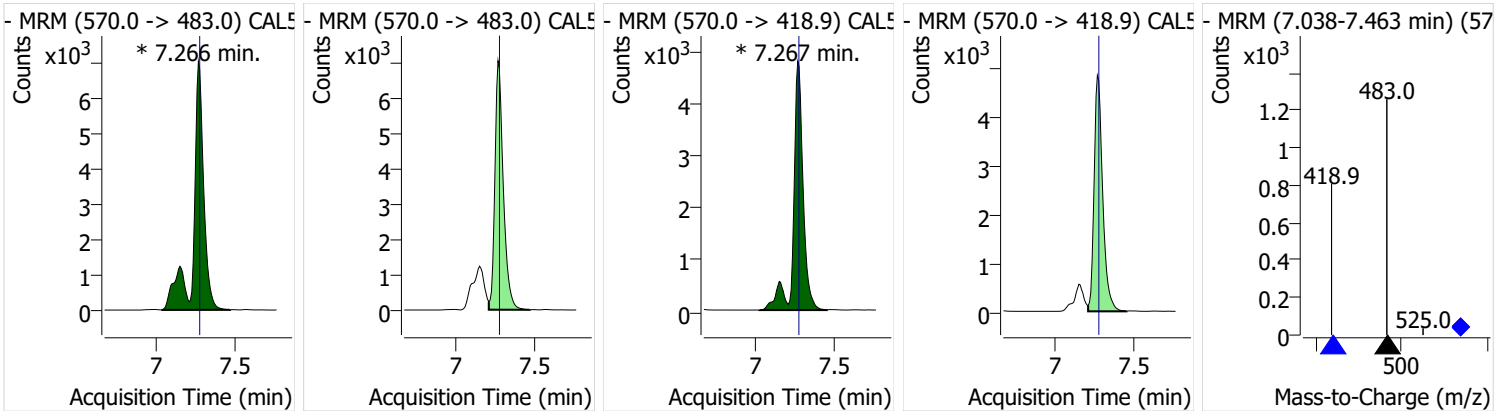

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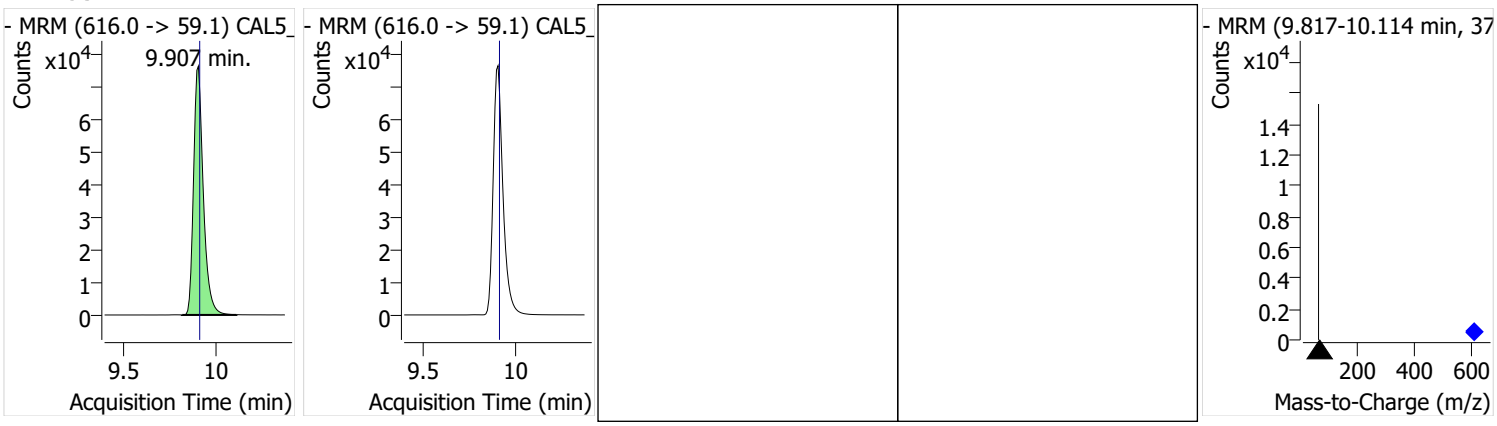

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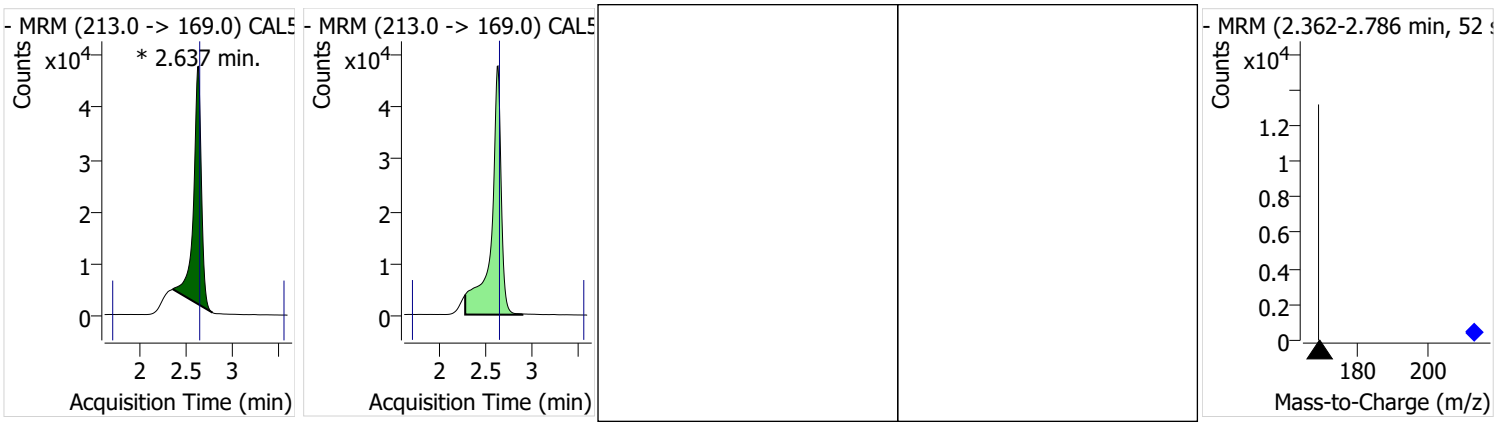

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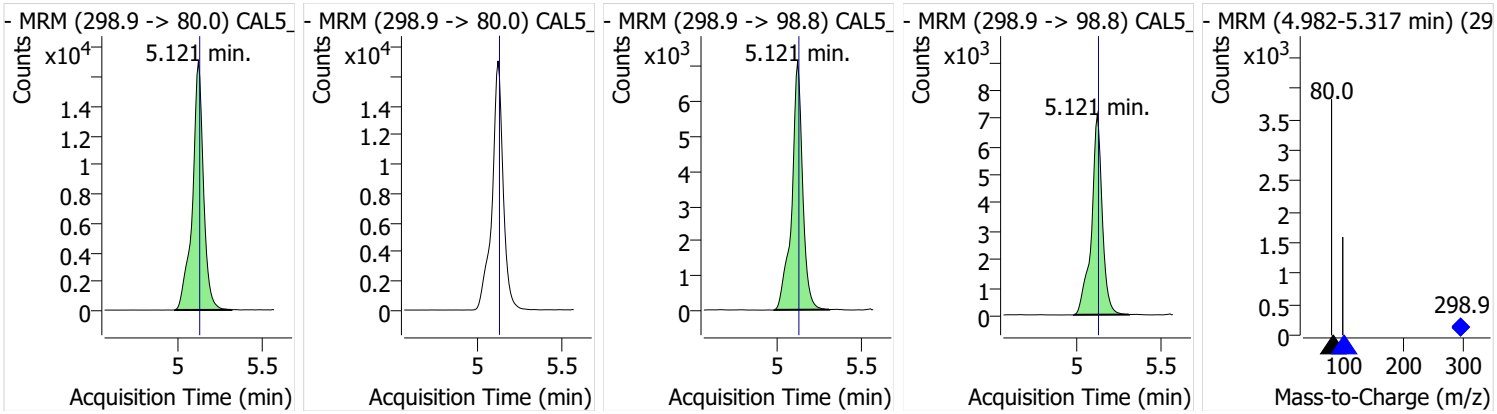
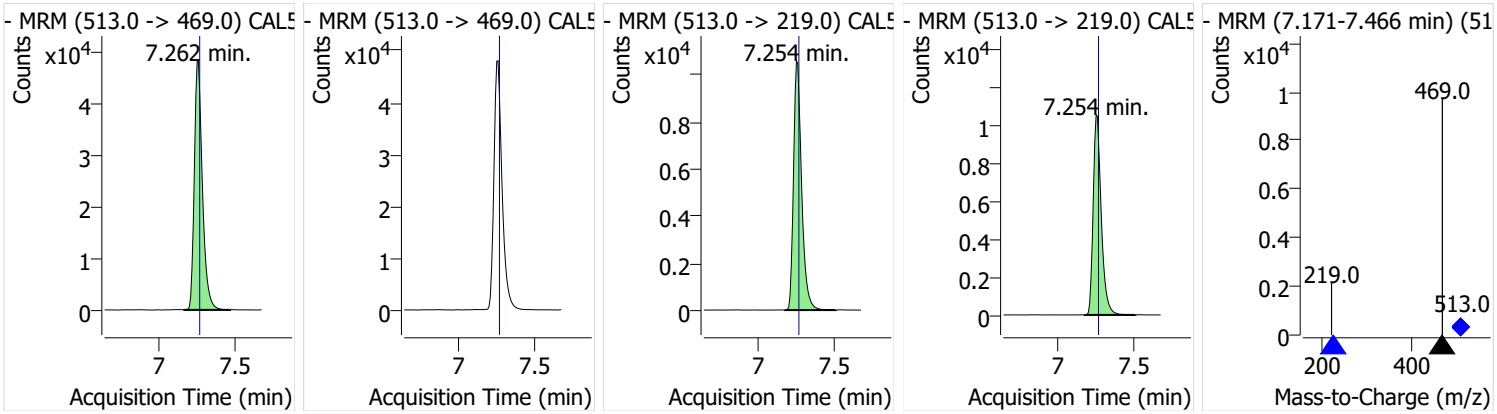


PFDA



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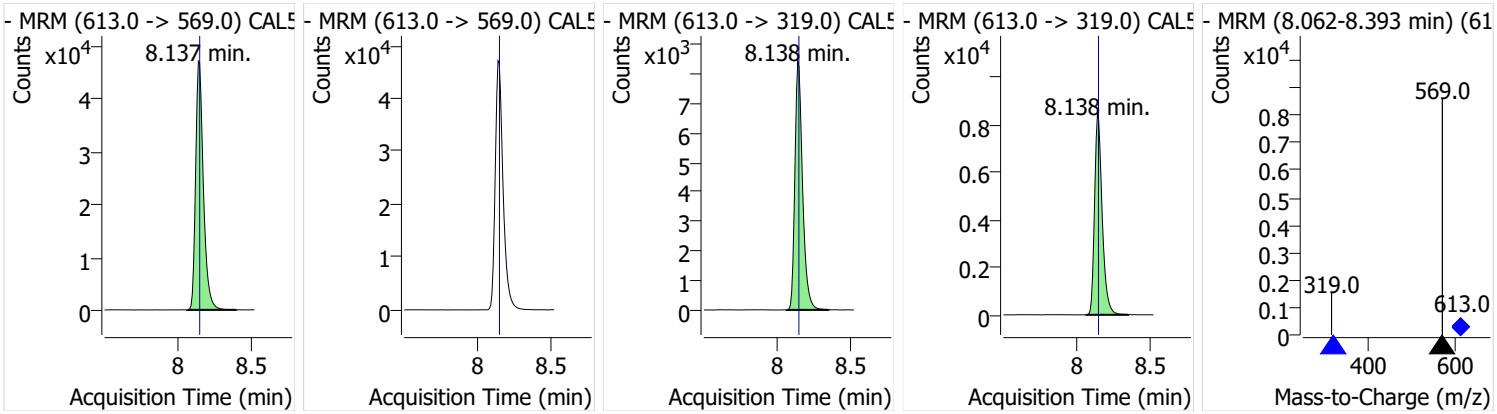
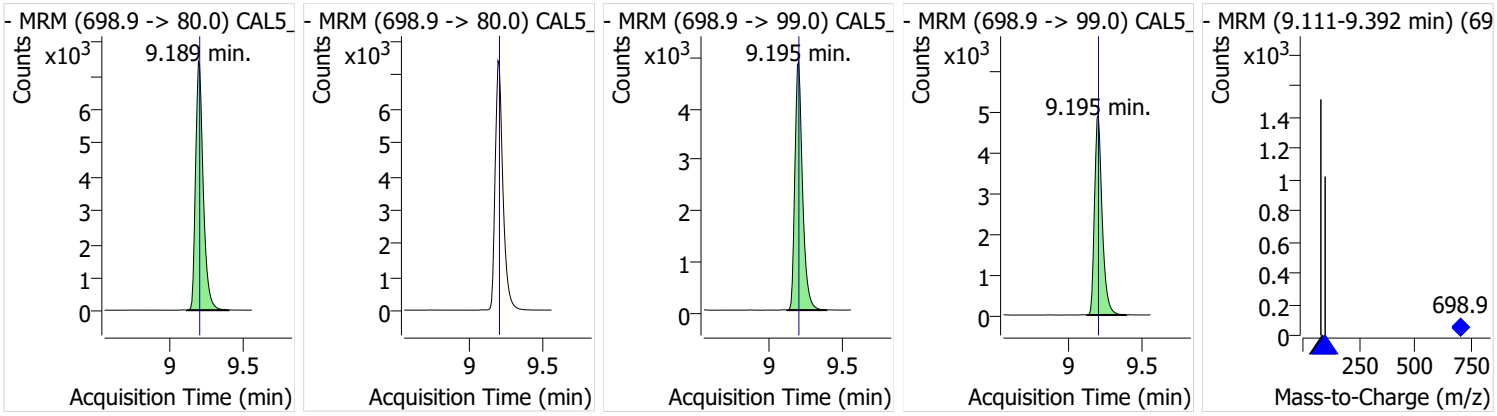


PFDoS



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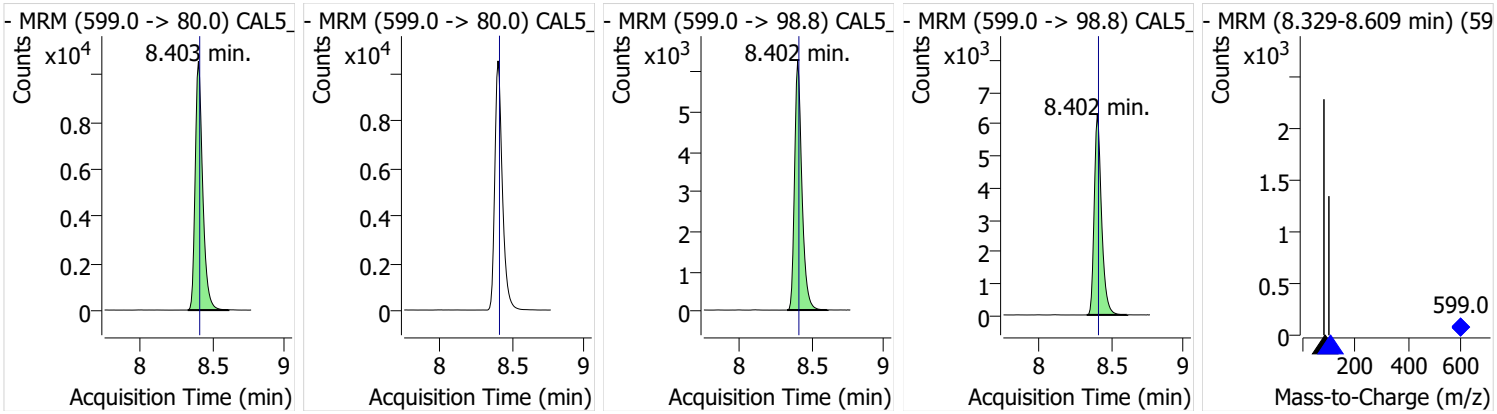

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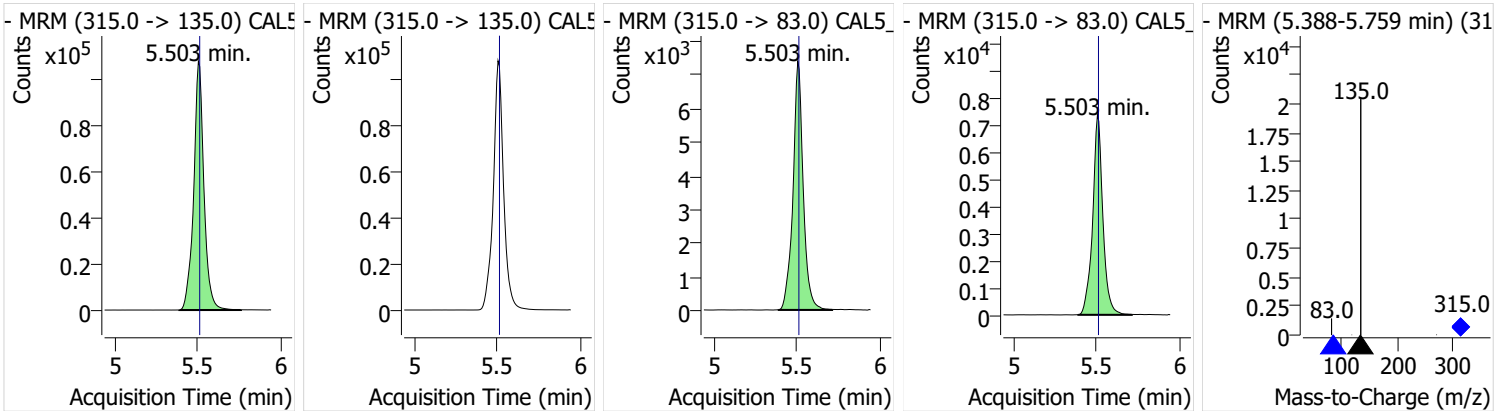
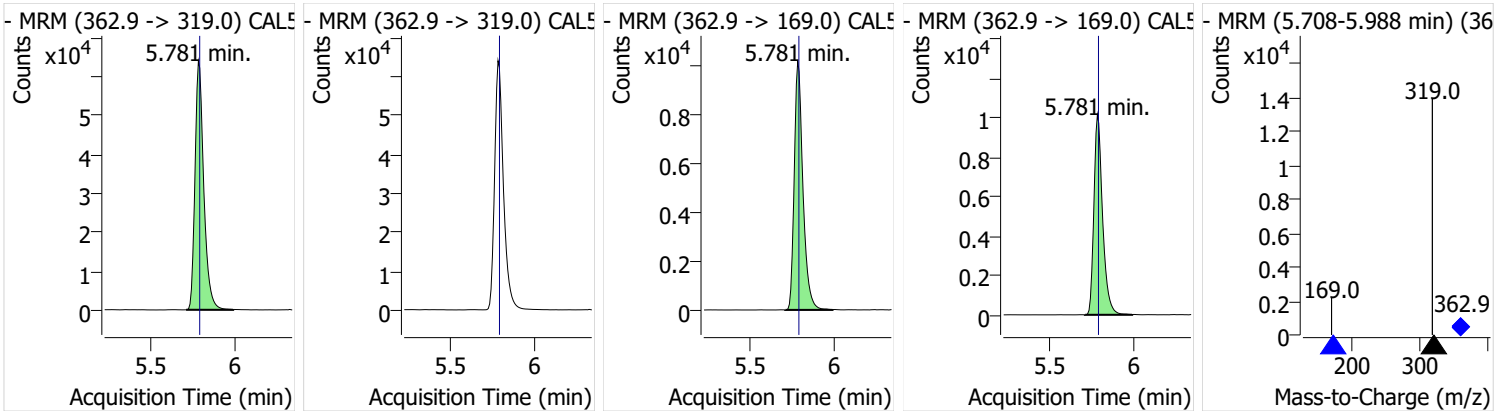


PFHpA



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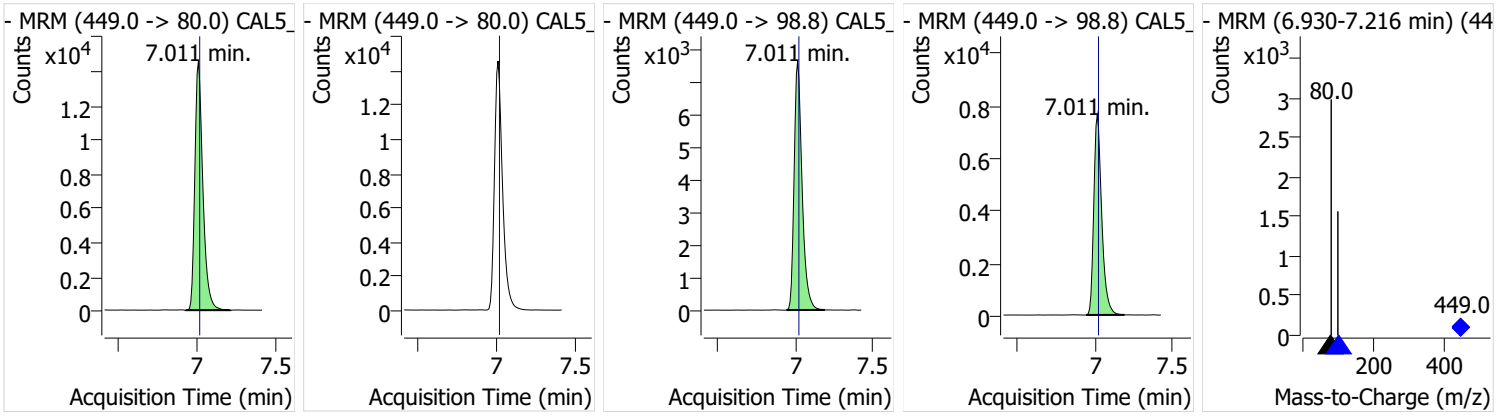

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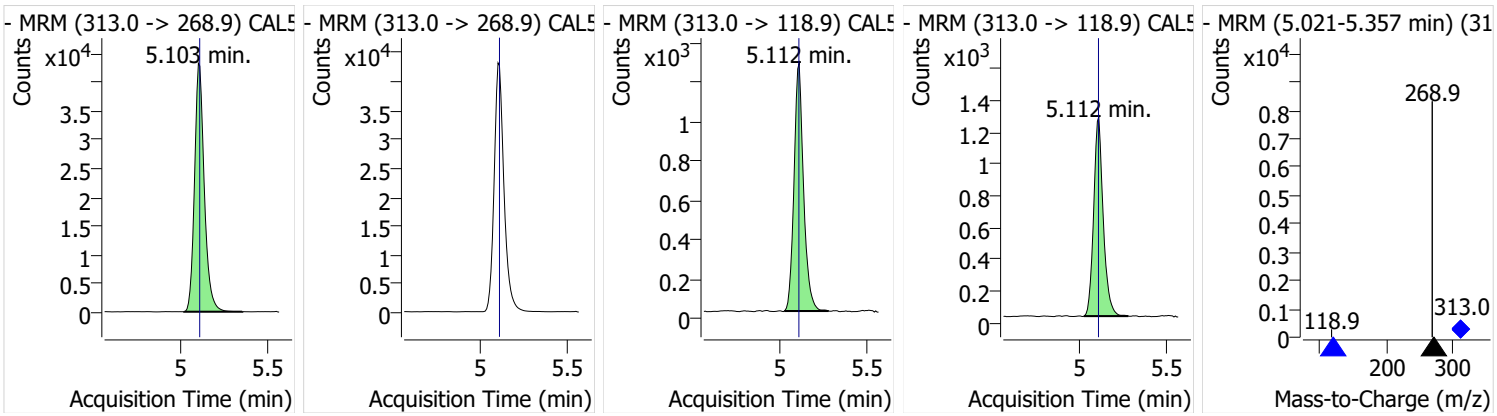
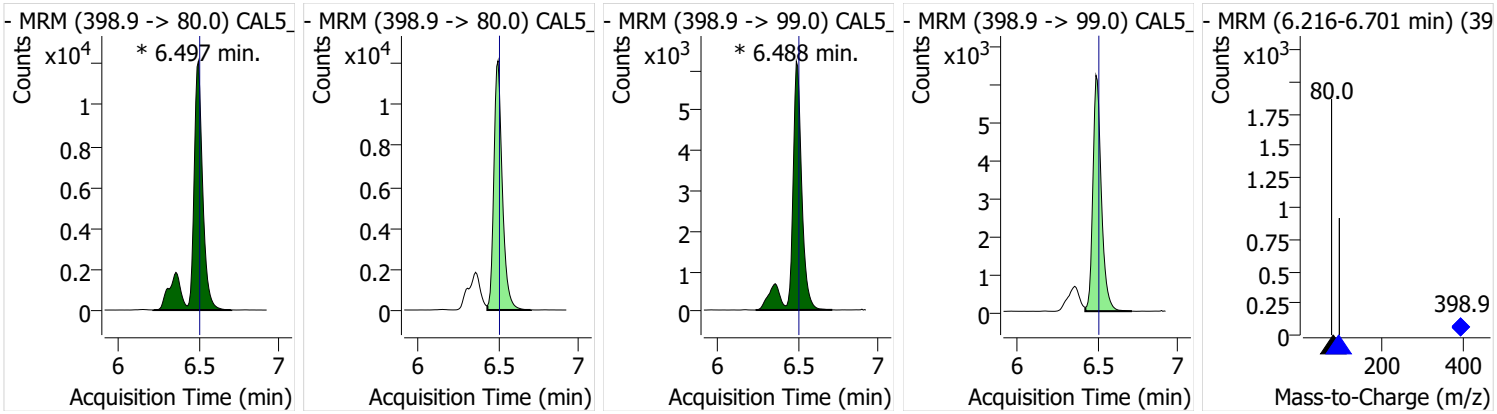
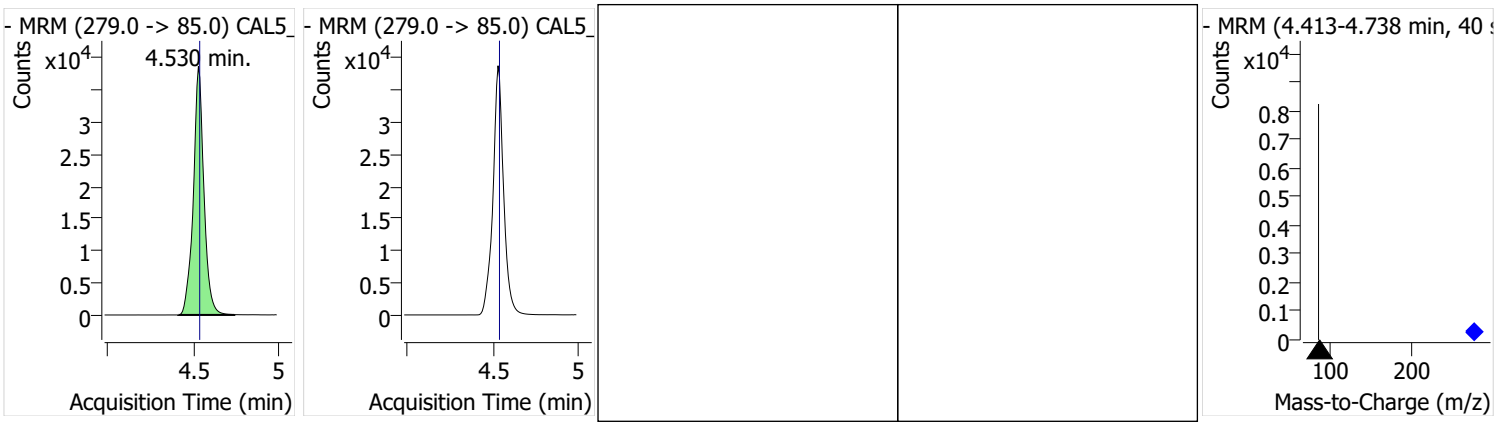


PFHxS



PFMBA



PFMPA

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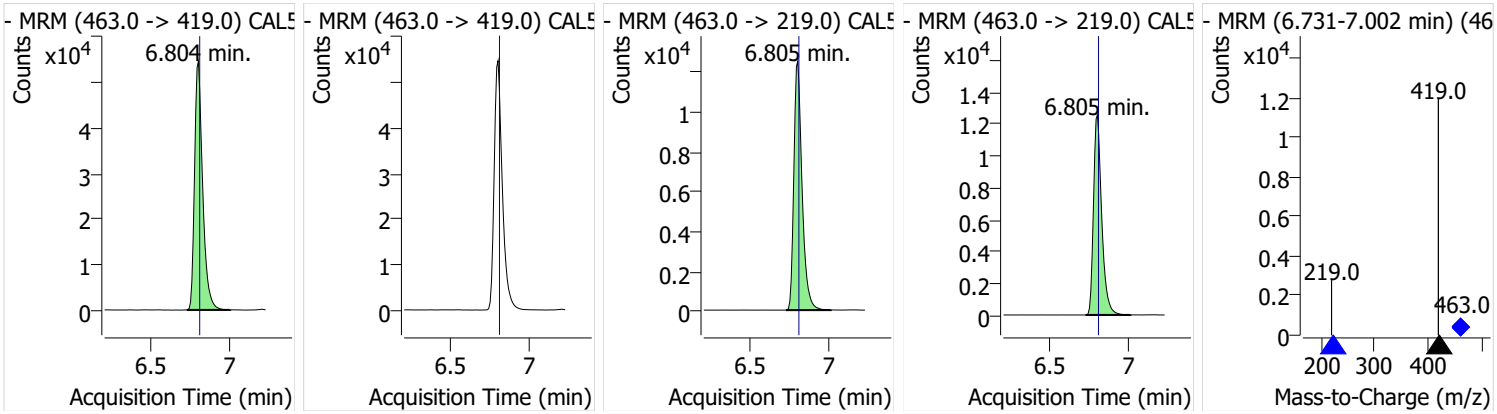

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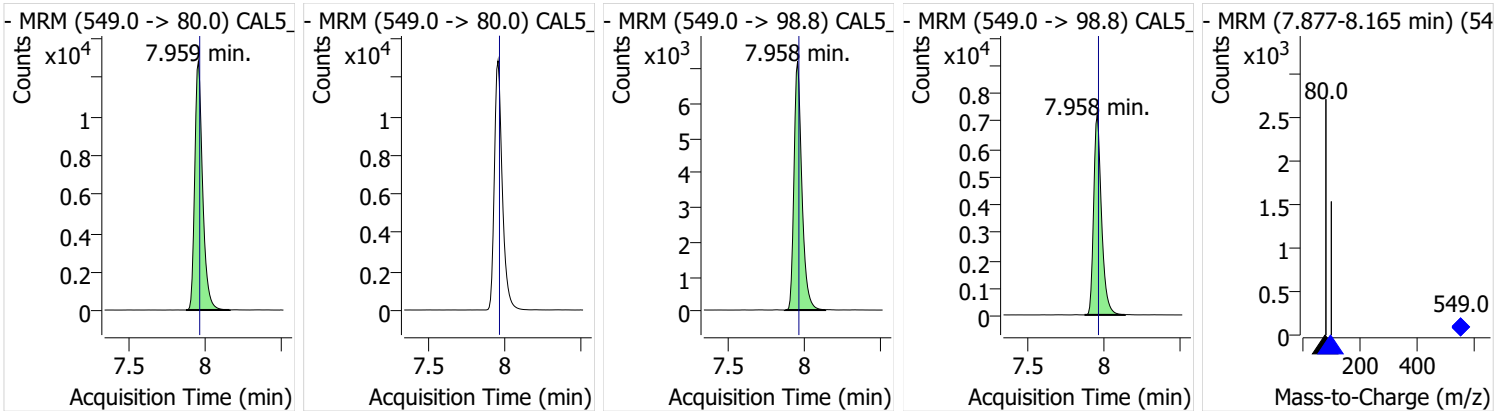
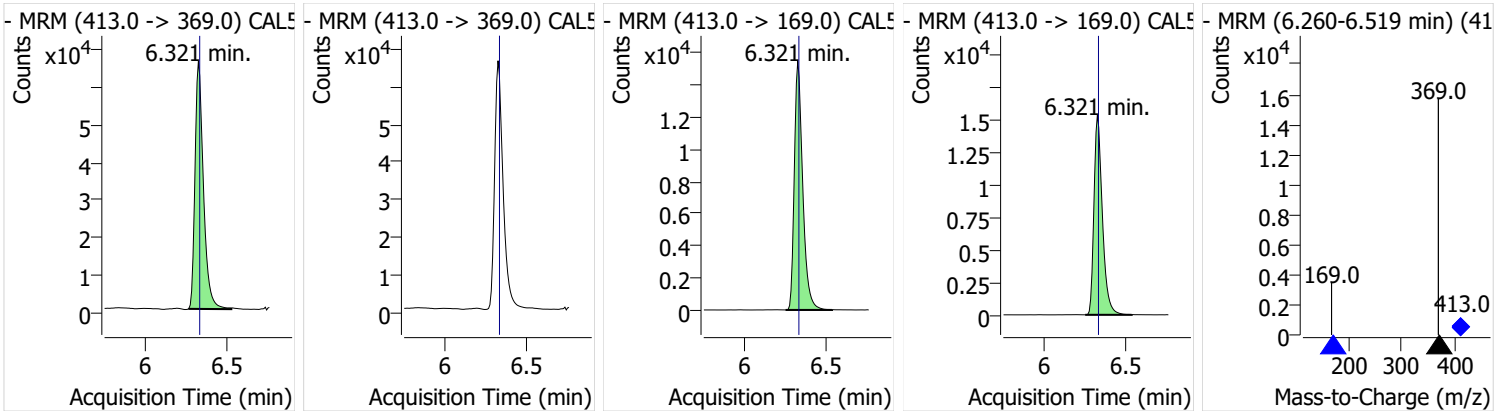


PFOA



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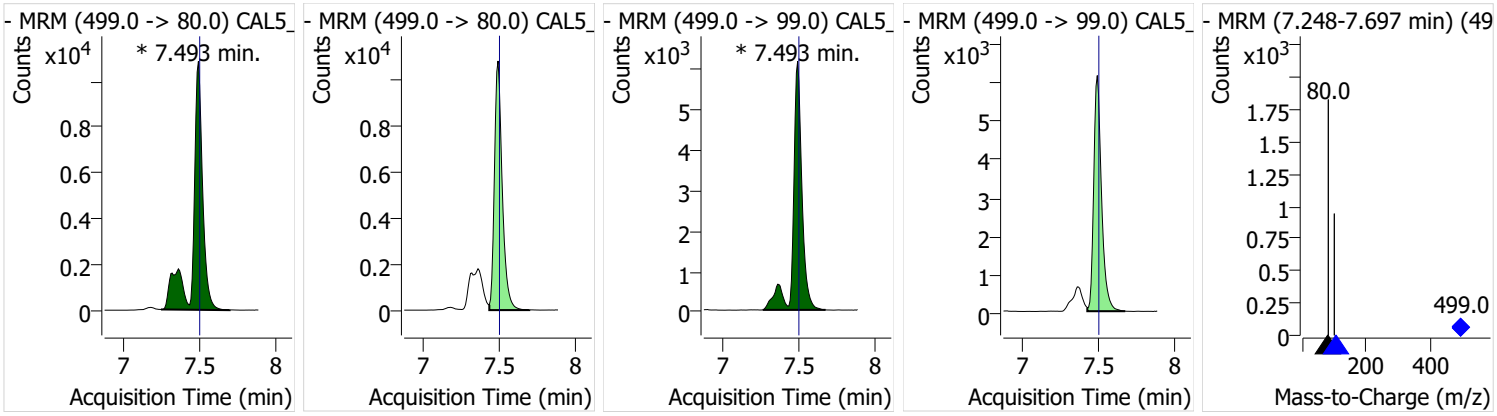
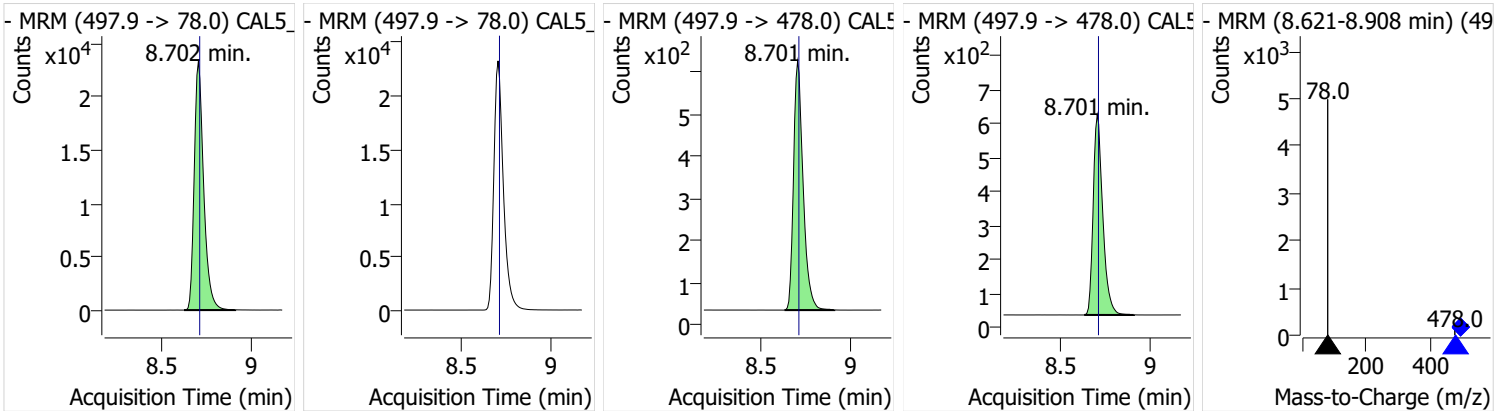
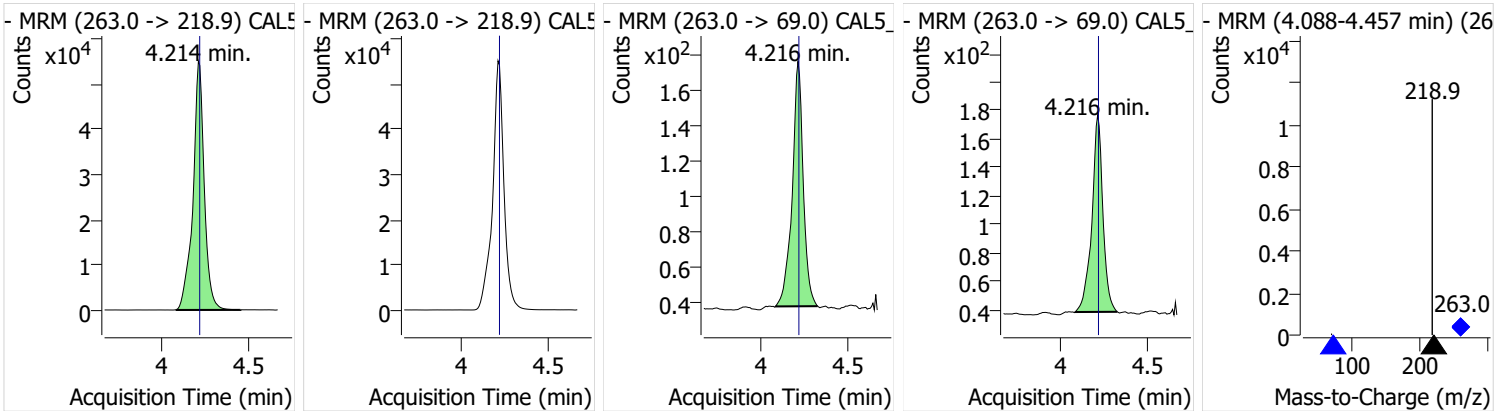


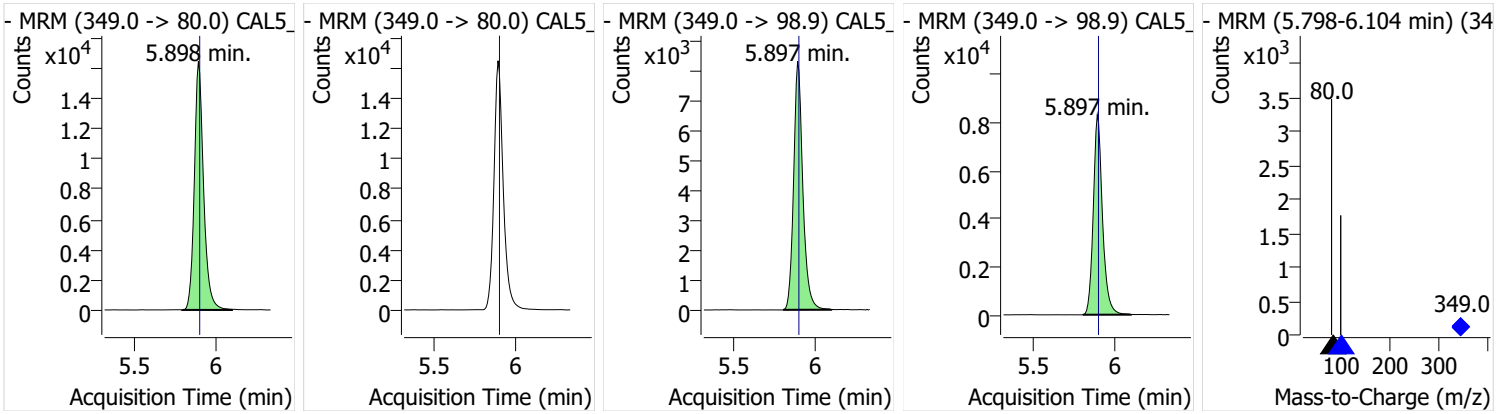
PFOSA



PFPeA



PFPeS



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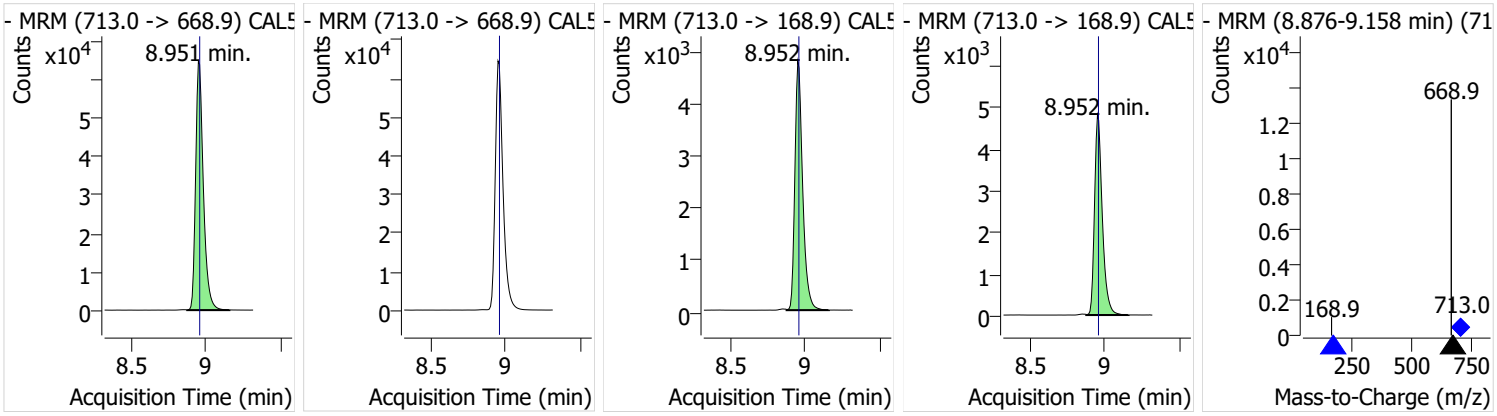
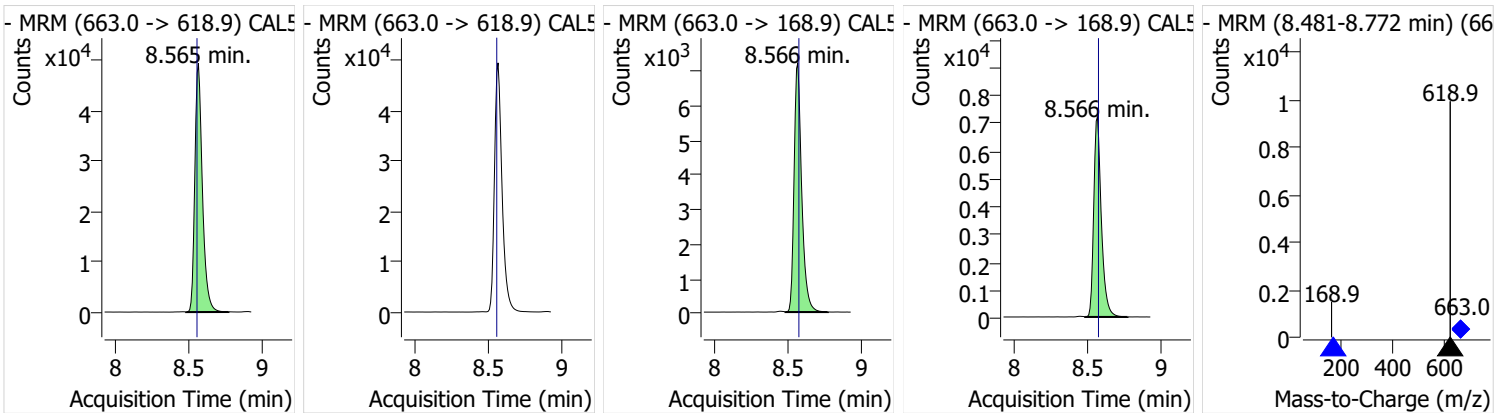
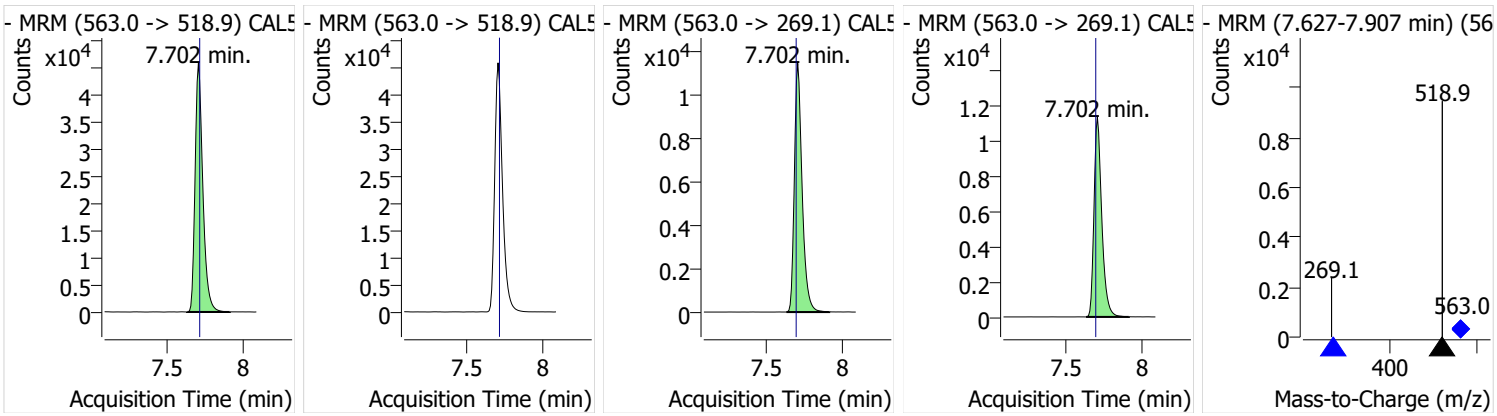


PFTrDA



PFUnA



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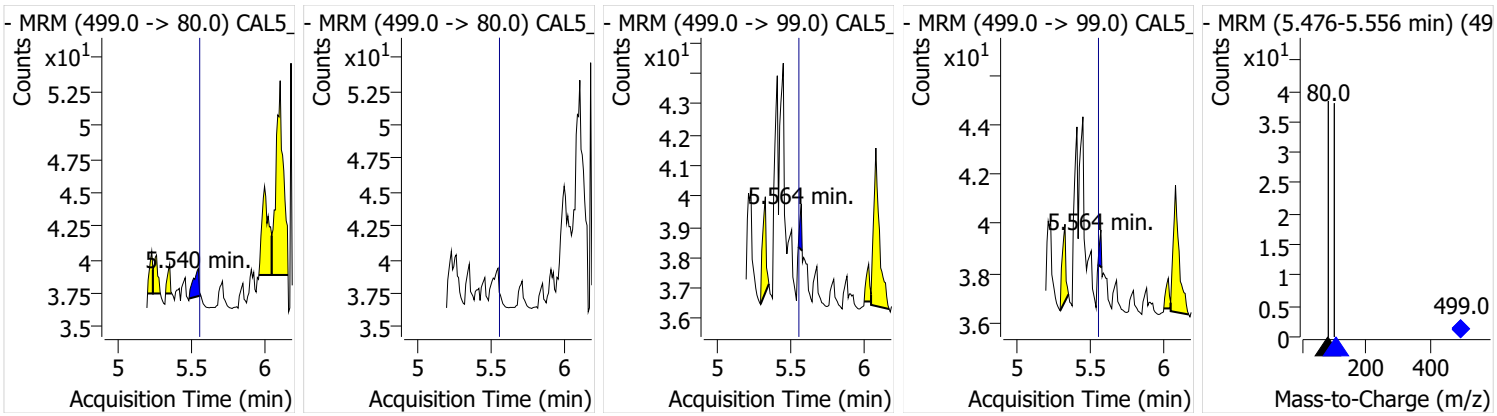
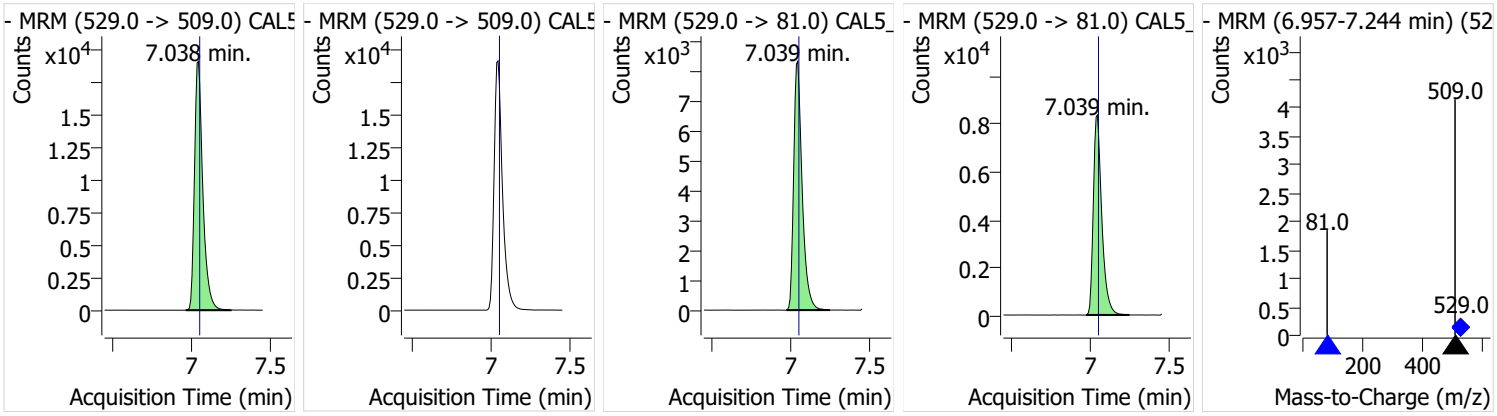
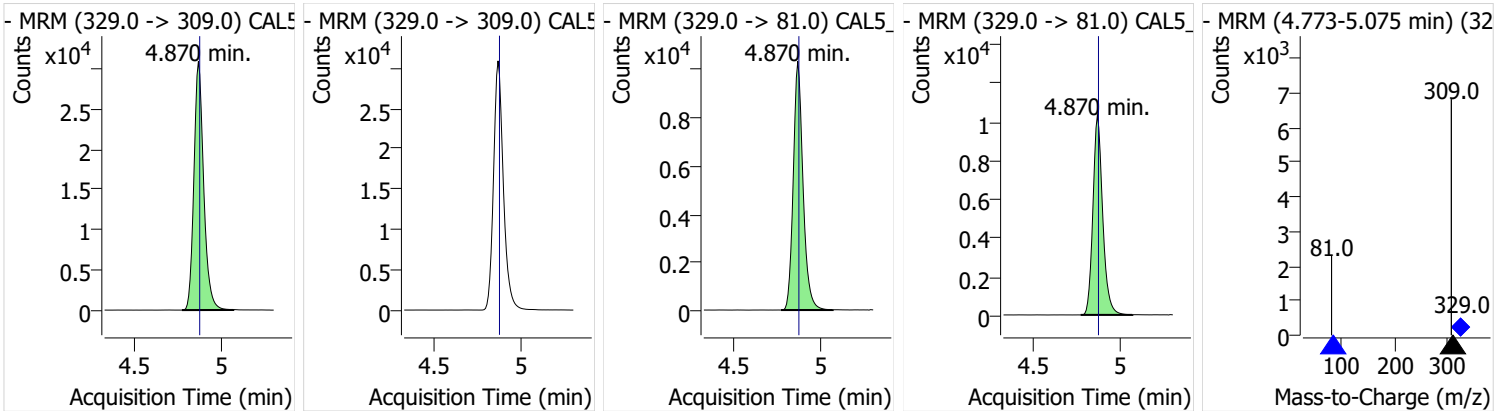


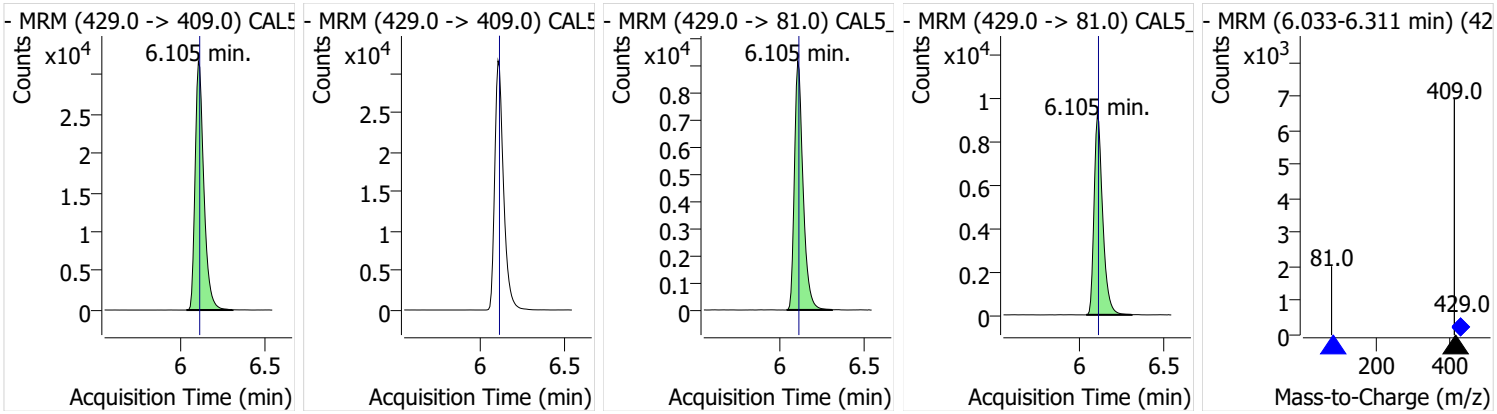
13C2-8:2FTS



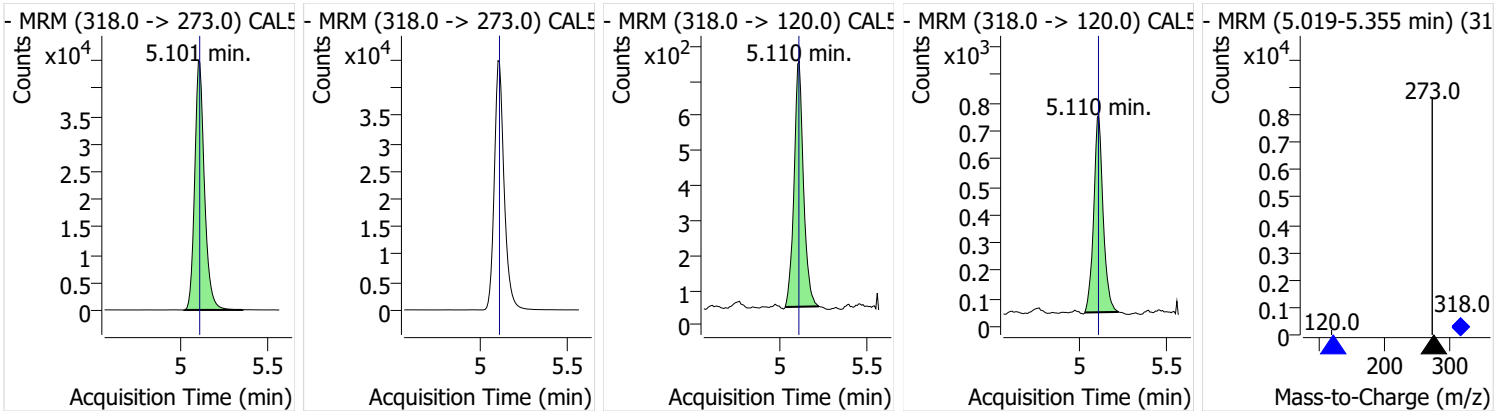
13C2-4:2FTS



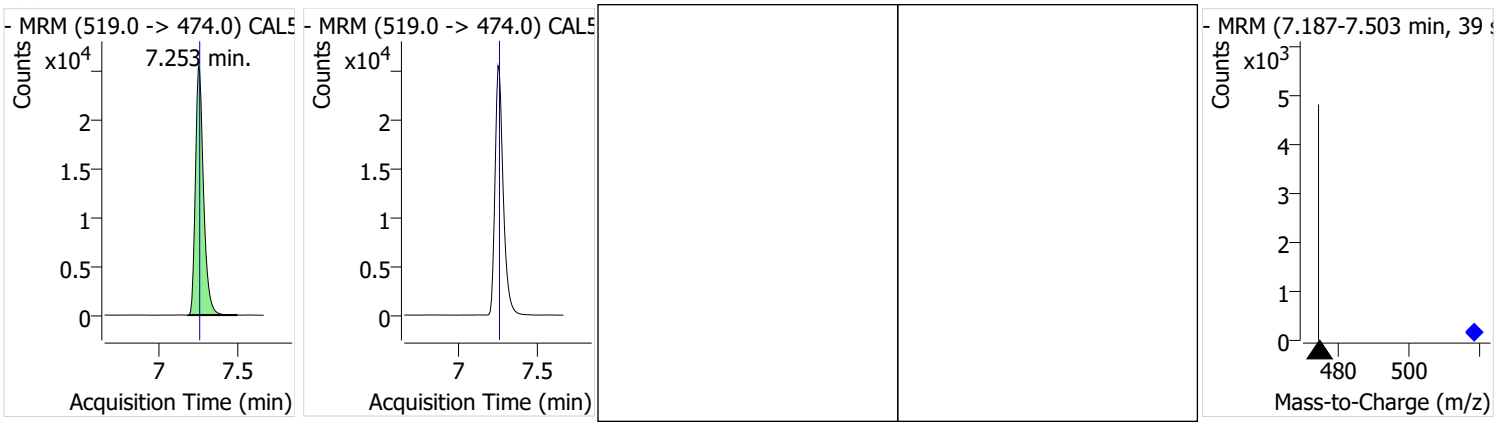
13C2-6:2FTS



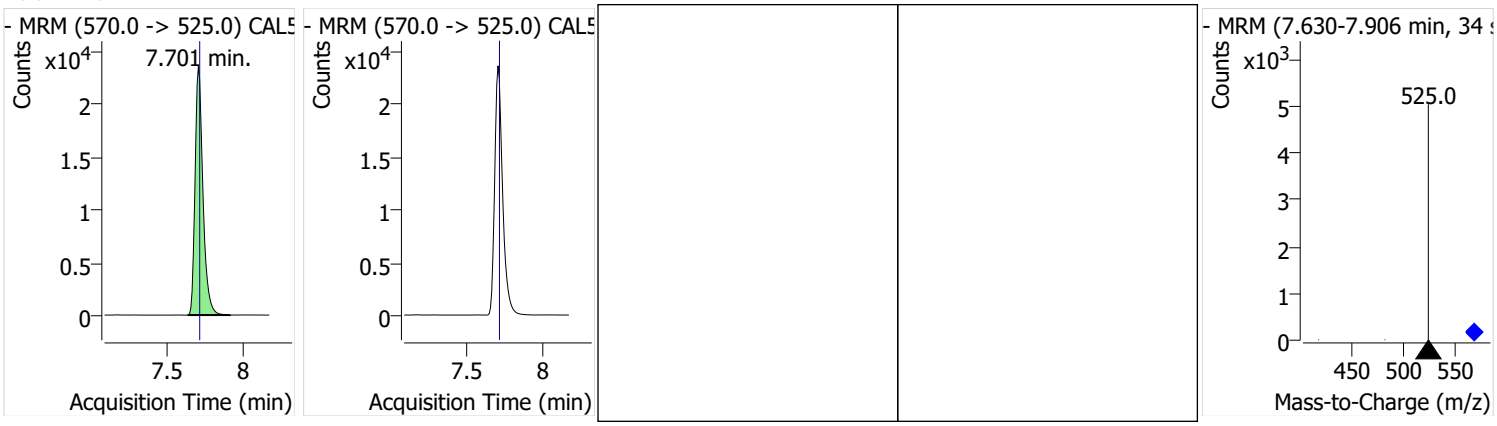
13C5-PFHxA



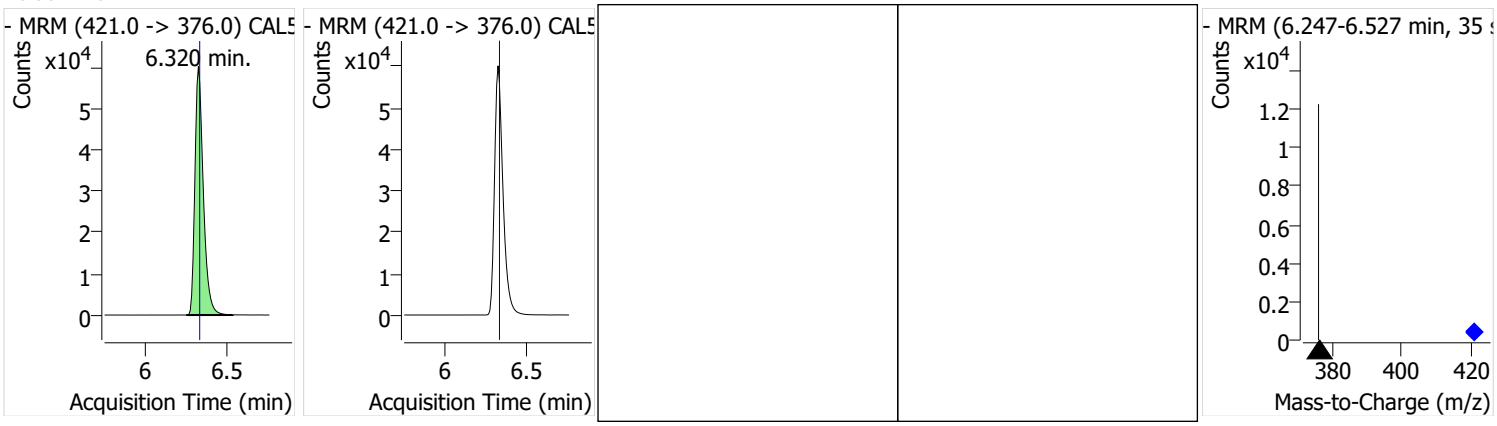
13C6-PFDA



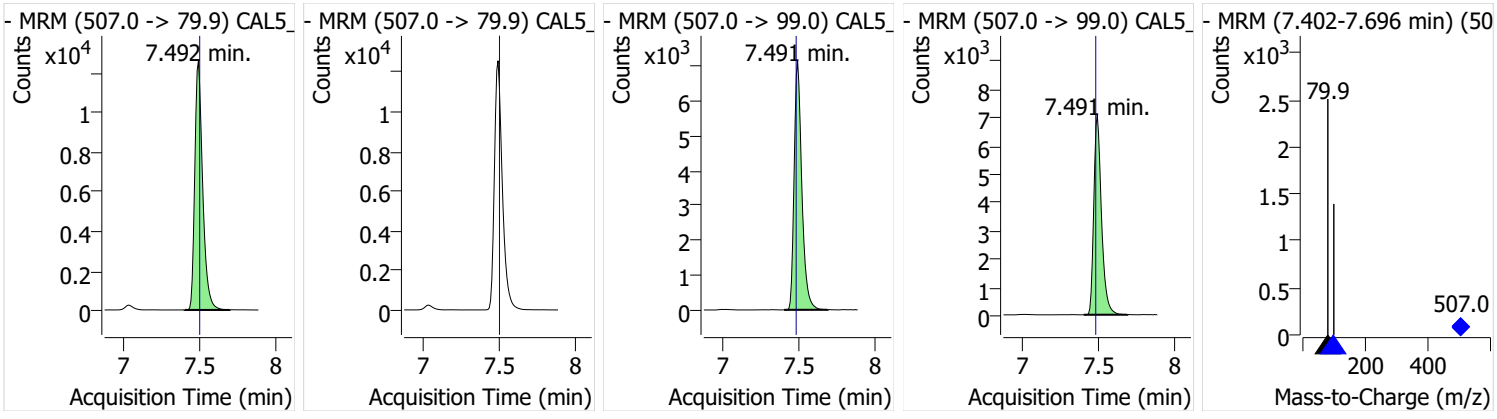
13C7-PFUnA



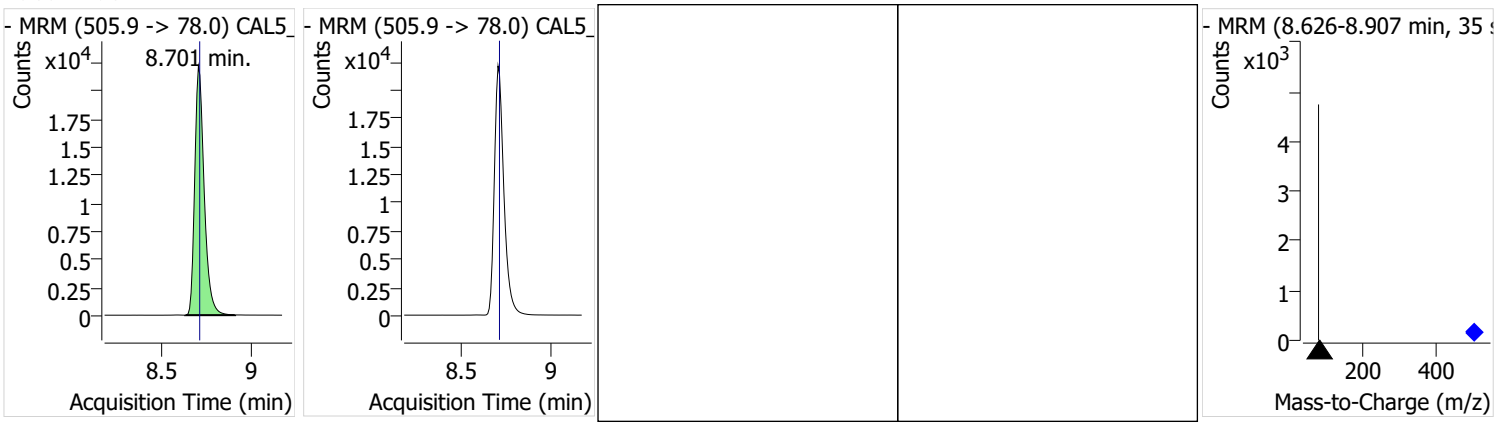
13C8-PFOA



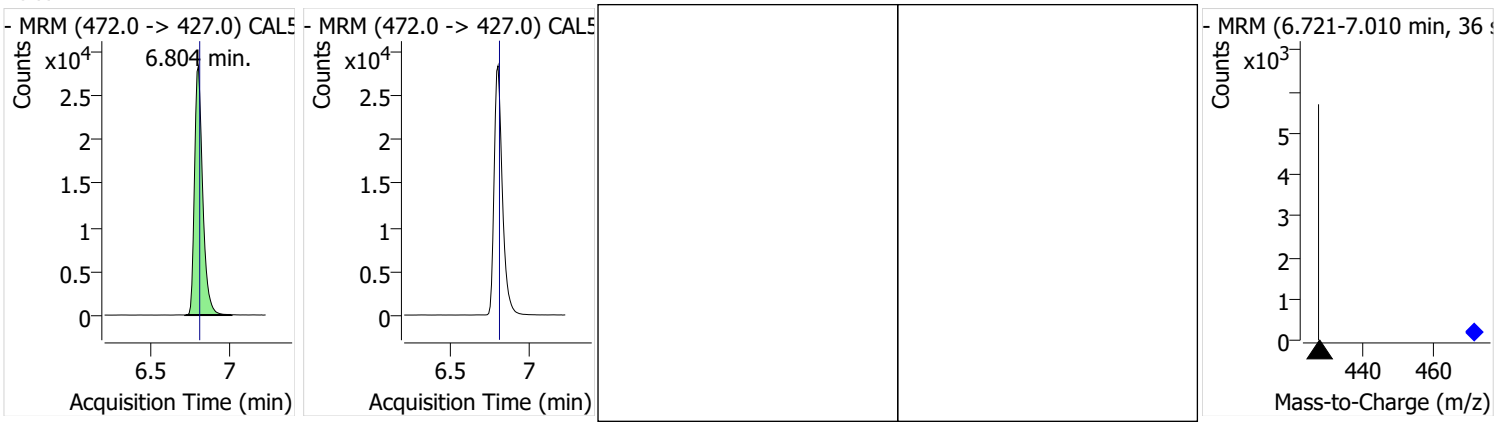
13C8-PFOS



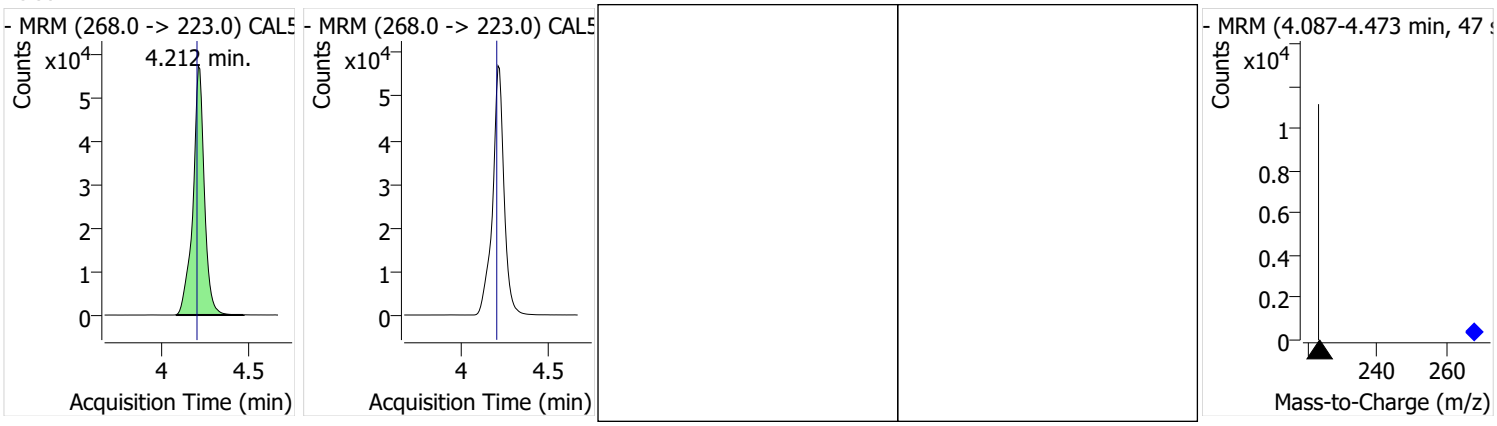
13C8-PFOSA



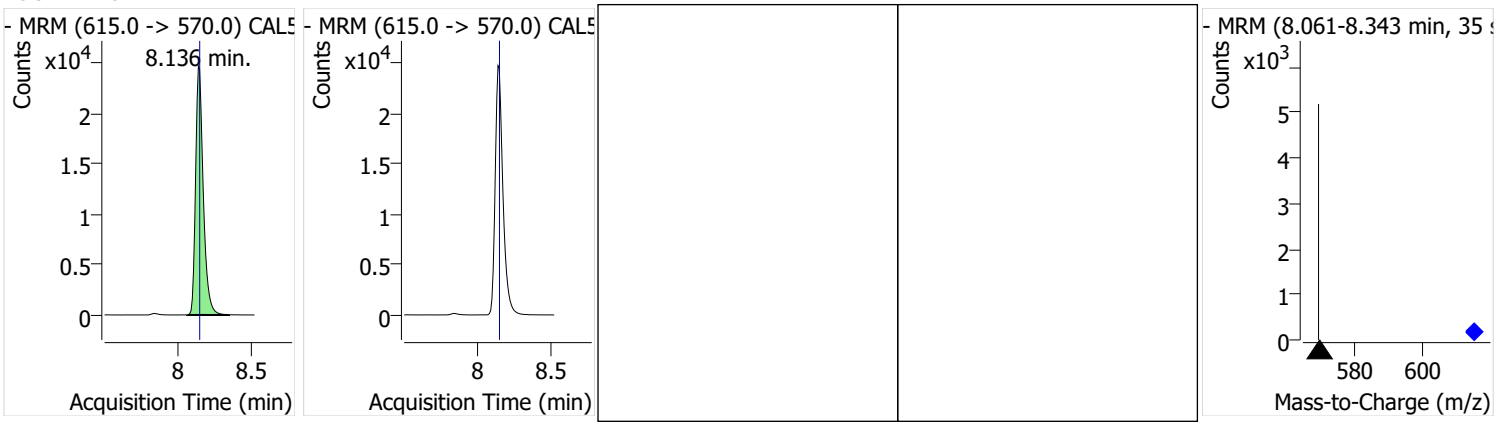
13C9-PFNA



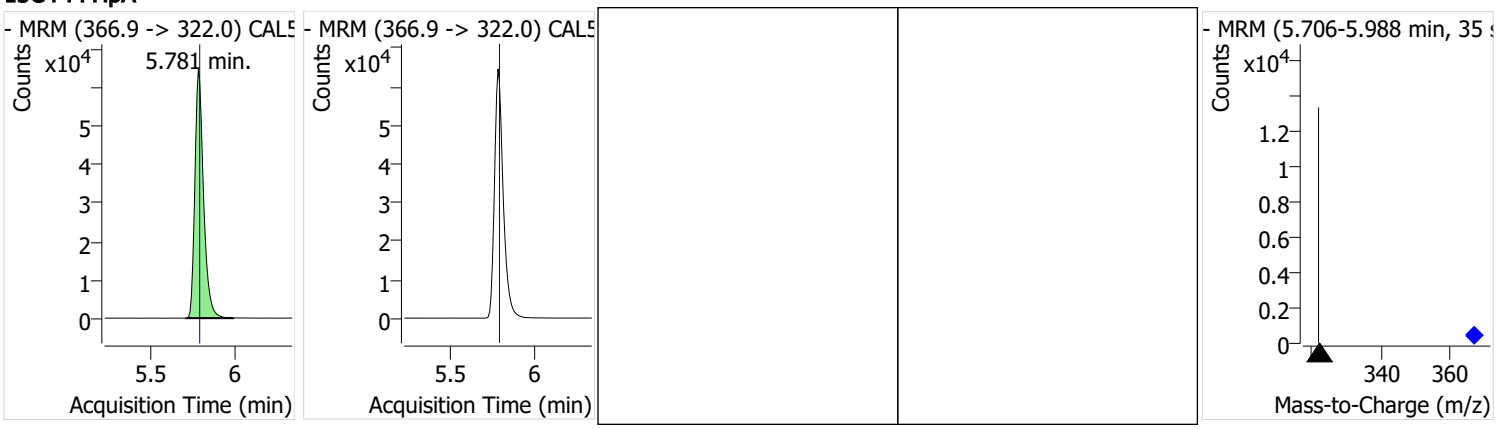
13C5-PFPeA



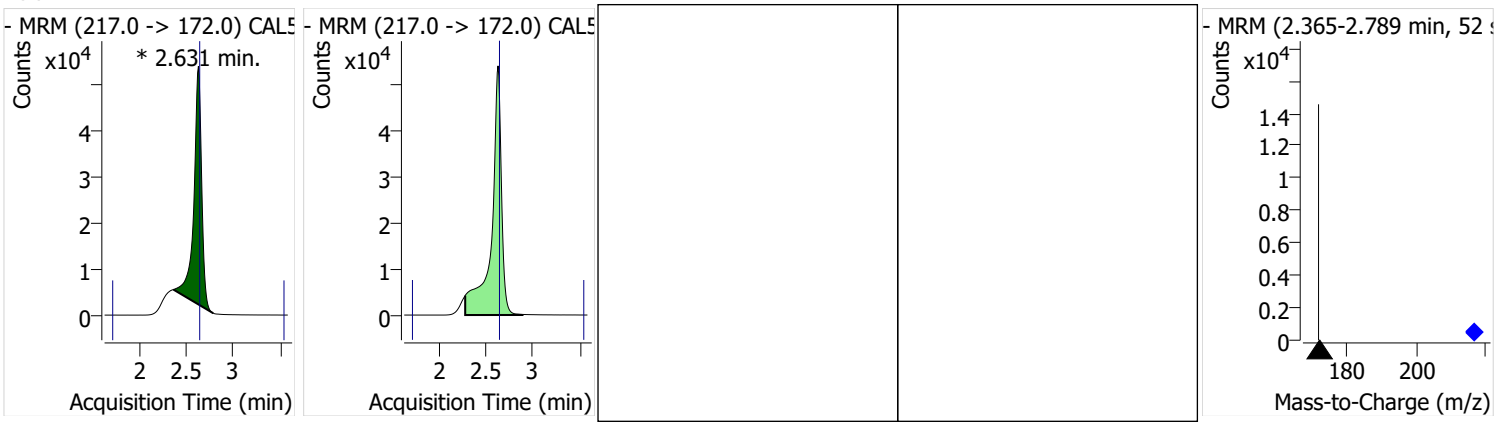
13C2-PFDoA



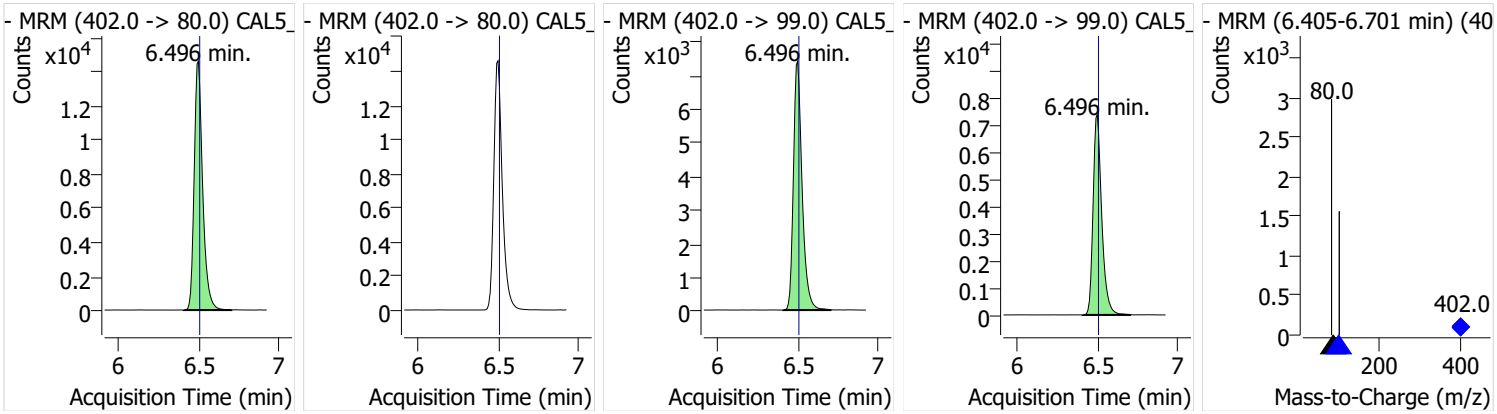
13C4-PFHpA



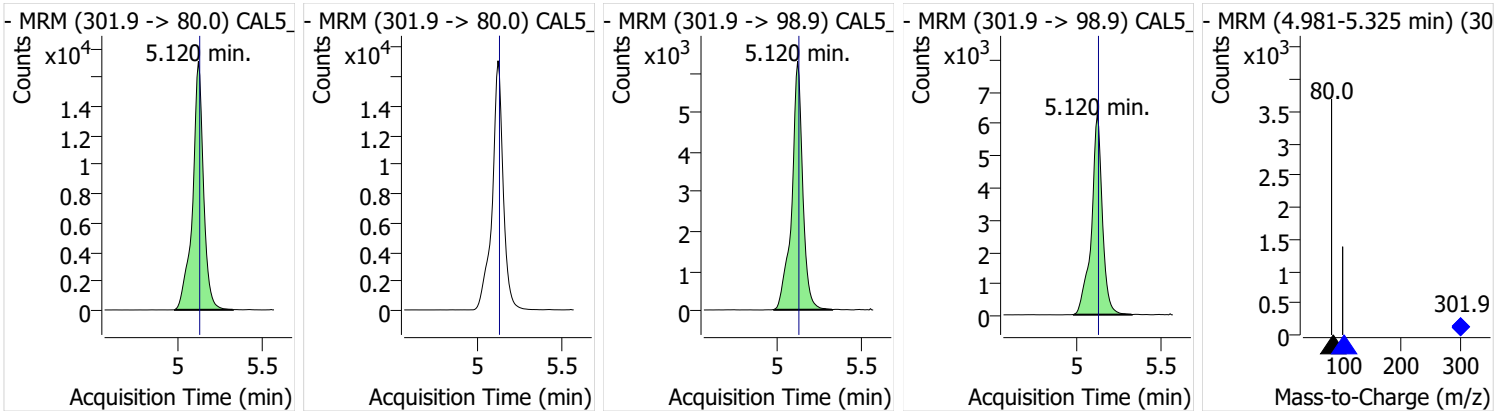
13C4-PFBA



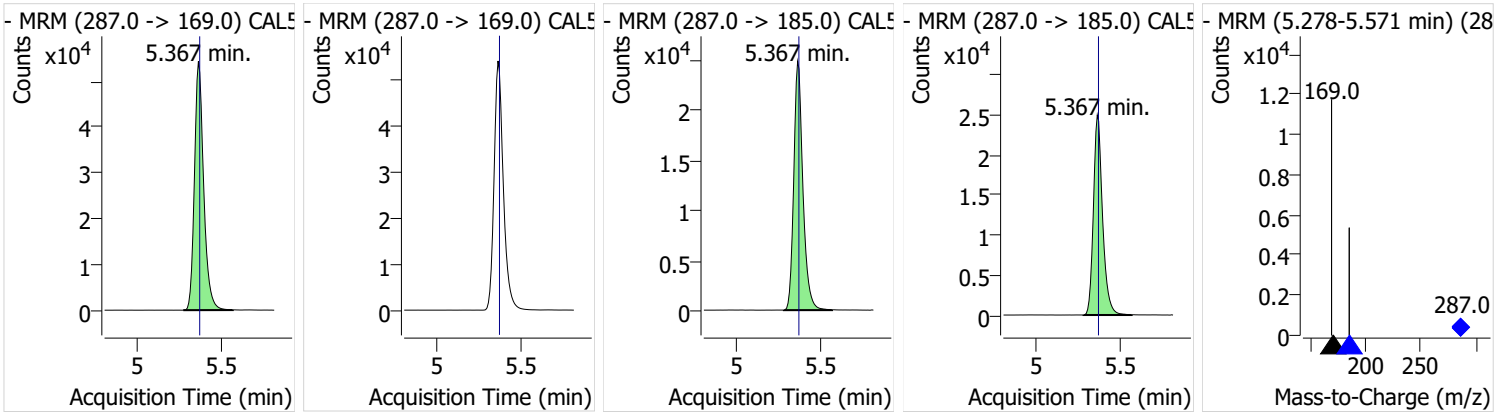
13C3-PFHxS



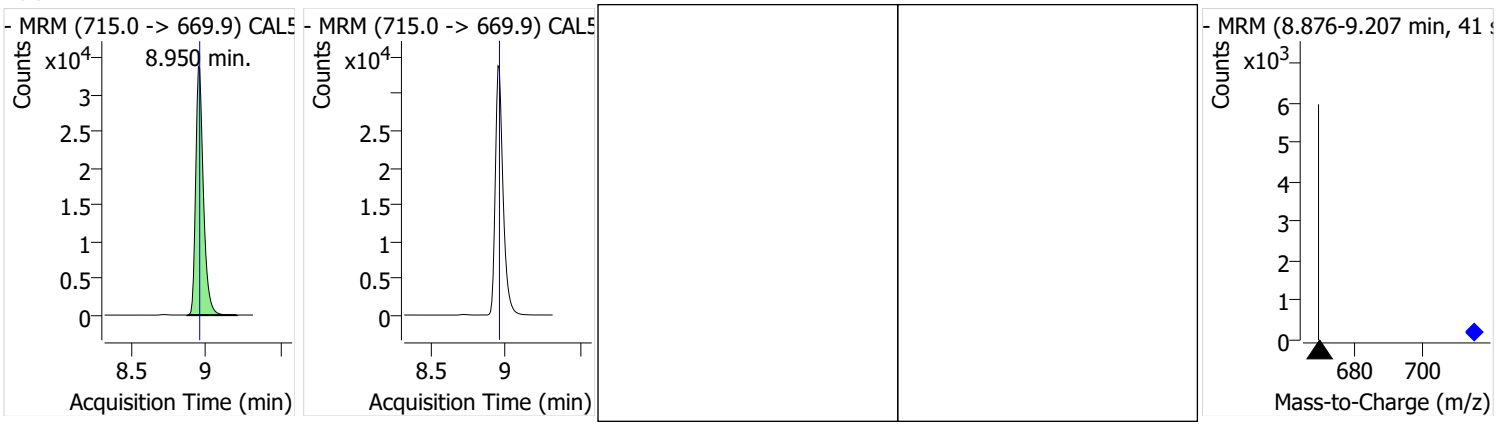
13C3-PFBS



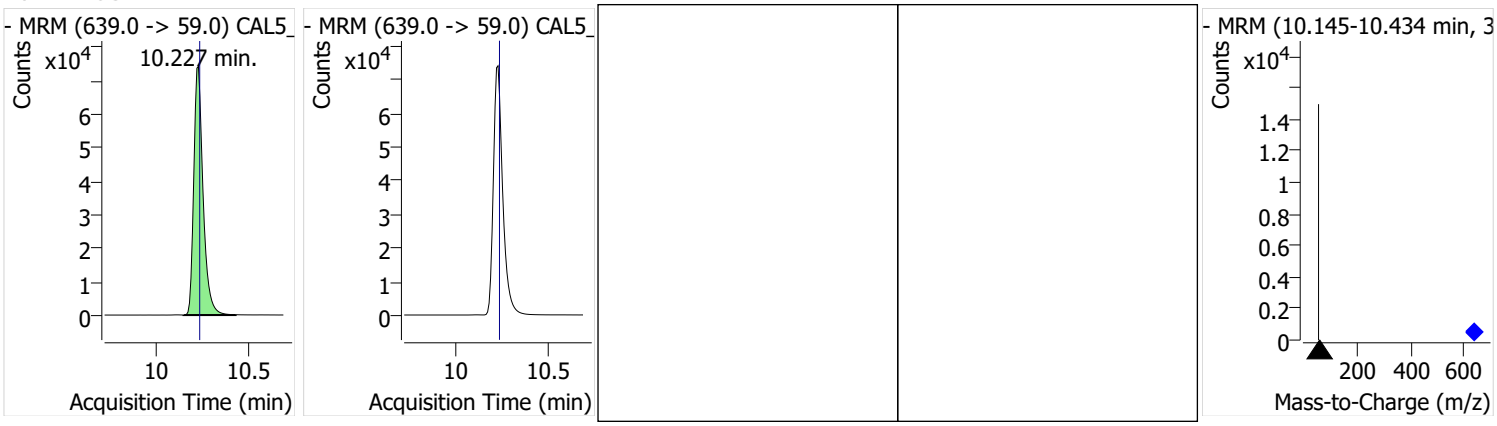
13C3-HFPODA



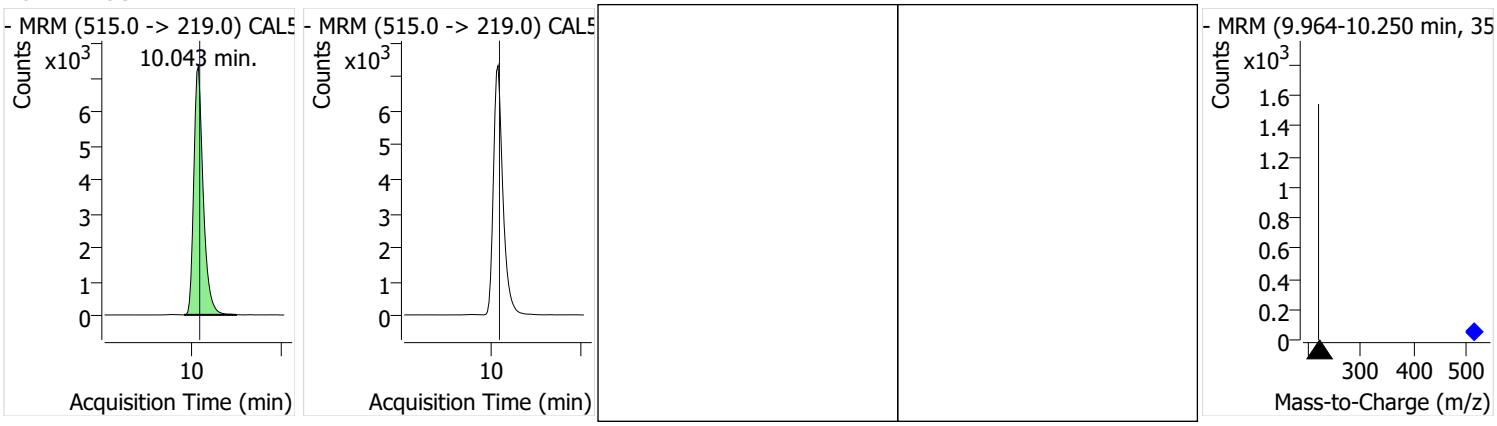
13C2-PFTeDA



D9-NEtFOSE



D3-NMeFOSA



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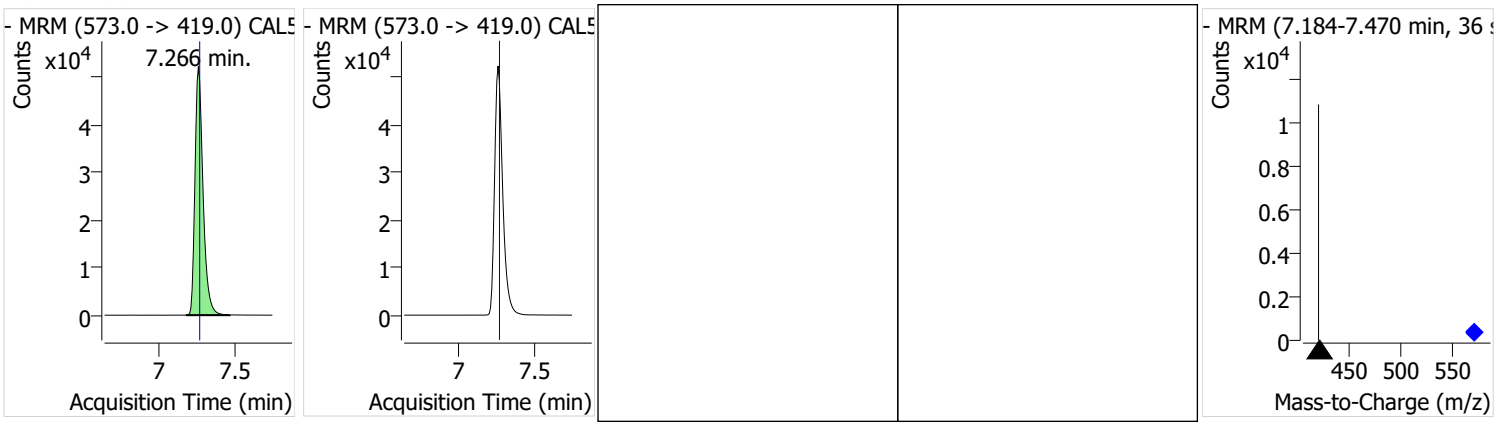

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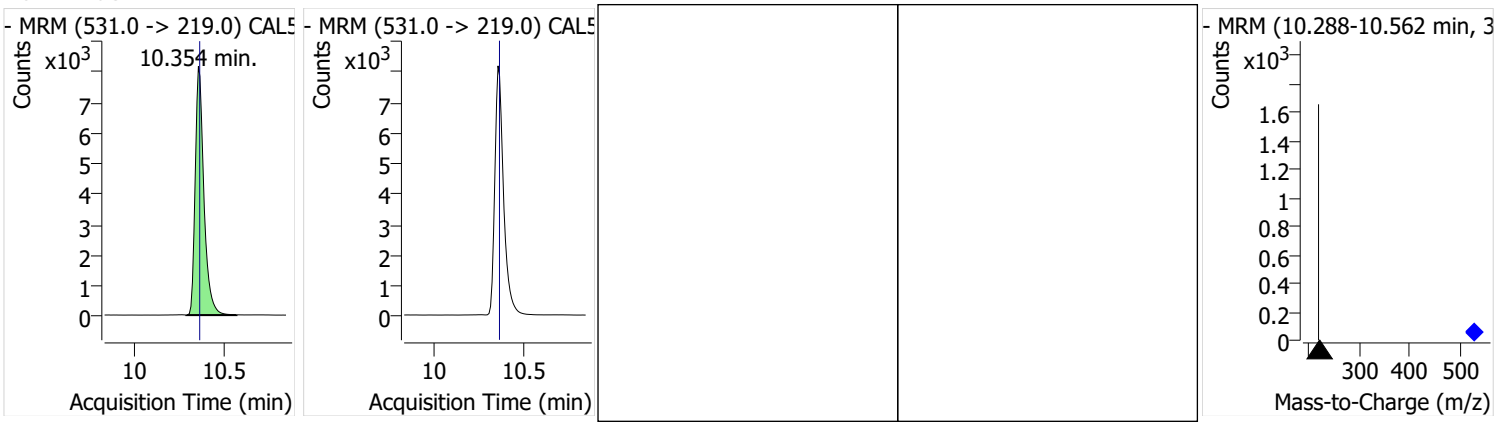

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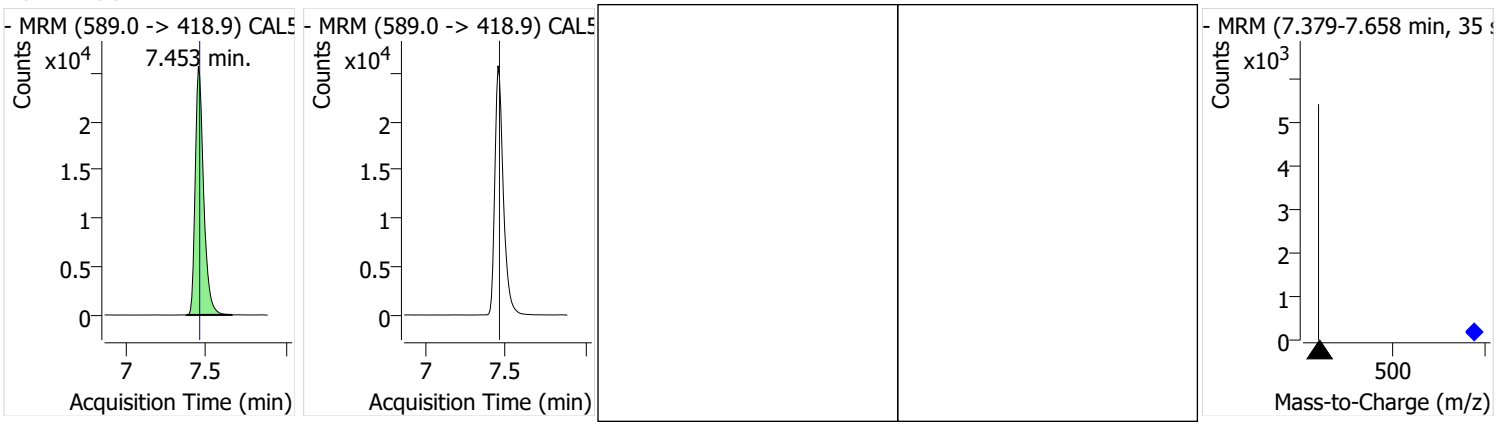
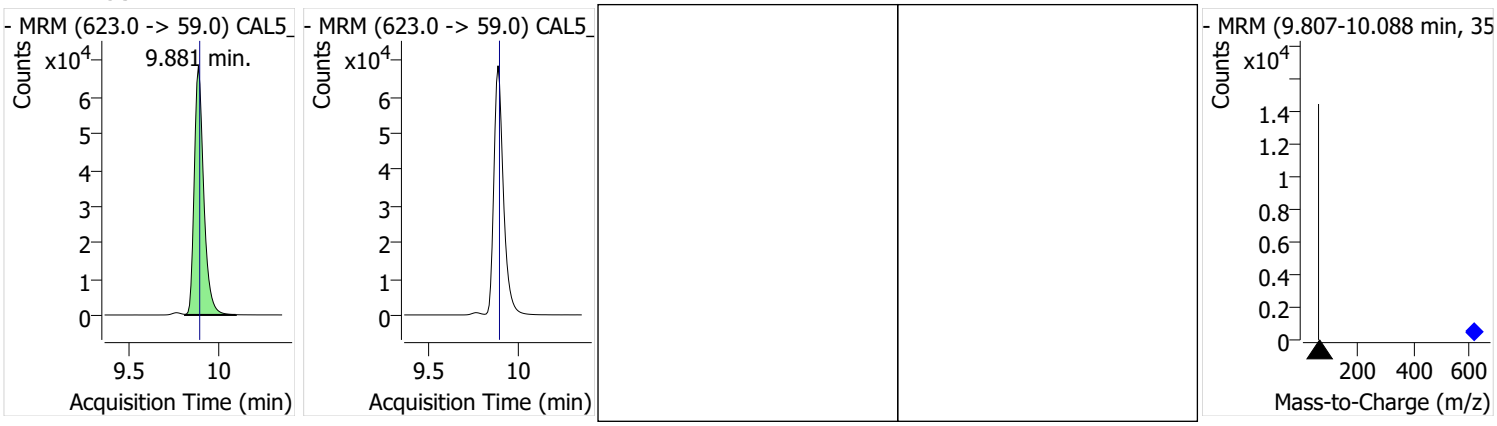


D7-NMeFOSE



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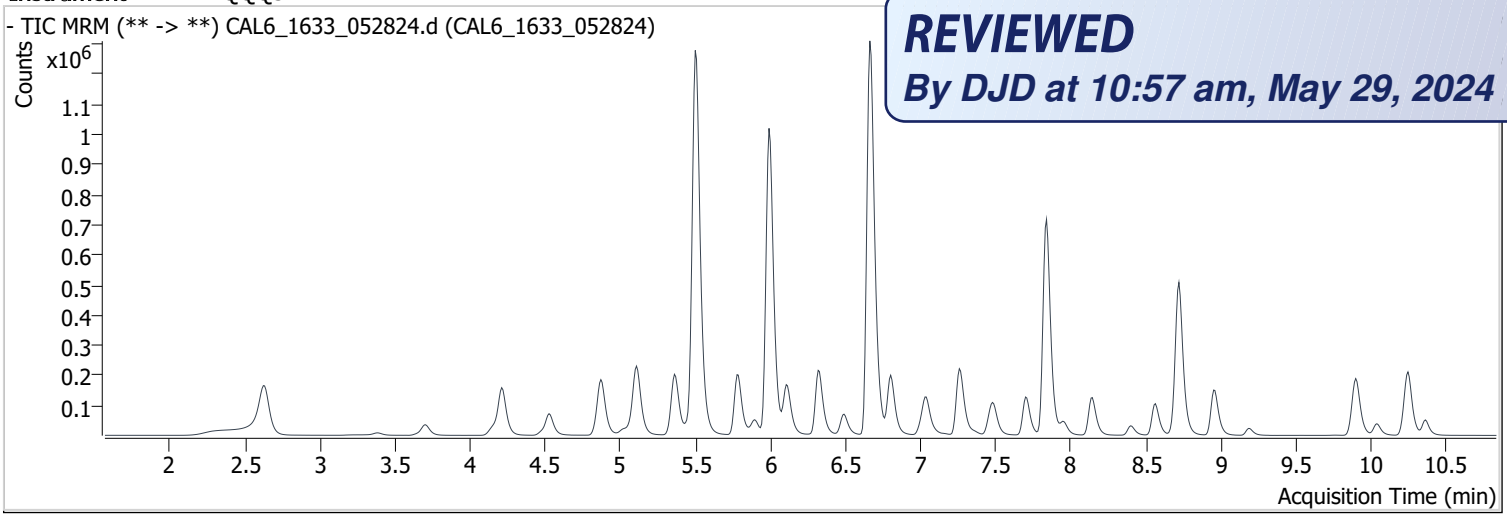
Acq. Time	5/28/2024 11:14 AM	**Data File**	CAL6_1633_052824.d
Sample Type	Cal	**Sample Name**	CAL6_1633_052824
Dilution	1	**Acq. Method**	1633_ACQUISITION.m
Sample Comment	E#24E0159	**Processing method**	1633_050624.m
Instrument	QQQ5		

REVIEWED
By DJD at 10:57 am, May 29, 2024



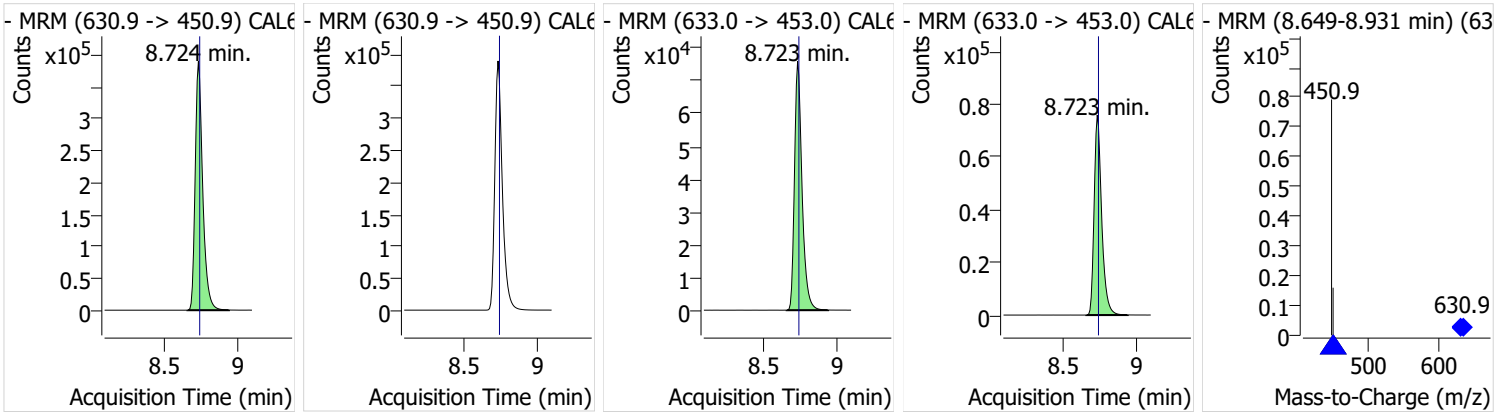
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
11Cl-PF3OUdS	8.724	1377091	277489.08		13C3-HFPODA - ISTD	5.367	192432	18.9244	ng/ml			
633.0 -> 453.0			35675.36	19.6								
3:3FTCA	3.707	108015	77988.75		13C5-PFPeA - ISTD	4.212	242403	50.7021	ng/ml			
241.0 -> 117.0			5857.12	50.4								
4:2FTS	4.871	434130	201680.01		13C2-4:2FTS - ISTD	4.870	36716	18.7910	ng/ml			
327.0 -> 80.9			34209.81	34.4								
5:3FTCA	5.501	2101059	205155.53		13C5-PFHxA - ISTD	5.109	164607	248.5524	ng/ml			
341.0 -> 217.0			228434.26	89.8								
6:2FTS	6.106	311799	70040.27		13C2-6:2FTS - ISTD	6.114	27724	19.7819	ng/ml			
427.0 -> 80.9			25239.59	36.2								
7:3FTCA	6.666	2547066	8260.39		13C5-PFHxA - ISTD	5.109	164607	240.5997	ng/ml			
441.0 -> 317.0			4692.37	92.0								
8:2FTS	7.039	189179	86441.55		13C2-8:2FTS - ISTD	7.039	27514	19.1502	ng/ml			
527.0 -> 81.0			41463.48	57.7								
9Cl-PF3ONS	7.843	2037394	114411.33		13C3-HFPODA - ISTD	5.367	192432	18.6525	ng/ml			
533.0 -> 353.0			10665.18	26.7								
ADONA	5.995	2622225	328391.04		13C3-HFPODA - ISTD	5.367	192432	18.1411	ng/ml			
377.0 -> 85.1			145840.55	39.3								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA	5.368	332024	71320.70		13C3-HFPODA - ISTD	5.367	192432	20.2096	ng/ml			
285.0 -> 184.9			9130.19	47.5								
NEtFOSA	10.364	67287	78260.19		D5-NEtFOSA - ISTD	10.354	25387	5.0072	ng/ml			
526.0 -> 219.0			37639.61	97.5								
NEtFOSAA	7.461	88560	4575.56		D5-NEtFOSAA - ISTD	7.461	85287	4.9111	ng/ml	✔	3	AMS 05/29/24
584.0 -> 526.0			2586.68	63.1								
NEtFOSE	10.245	576220	355255.38		D9-NEtFOSE - ISTD	10.227	243809	51.4642	ng/ml			
NFDHA	5.023	44393	15344.21		13C5-PFHxA - ISTD	5.109	164607	9.6270	ng/ml			
295.0 -> 85.0			6902.15	29.7								
NMeFOSA	10.044	56584	20600.67		D3-NMeFOSA - ISTD	10.043	24194	4.9830	ng/ml			
512.0 -> 219.0			70314.82	91.5								
NMeFOSAA	7.275	60726	3866.88		D3-NMeFOSAA - ISTD	7.266	169079	4.9244	ng/ml	✔	3	AMS 05/29/24
570.0 -> 418.9			10271.42	60.4								
NMeFOSE	9.907	518057	163614.82		D7-NMeFOSE - ISTD	9.881	232075	49.8322	ng/ml			
PFBA	2.628	511228	24534.84		13C4-PFBA - ISTD	2.631	278922	20.2406	ng/ml	✔	3	AMS 05/29/24
PFBS	5.121	147159	21120.31		13C3-PFBS - ISTD	5.120	70853	4.3970	ng/ml			
298.9 -> 98.8			9489.46	40.6								
PFDA	7.262	329878	10599.98		13C6-PFDA - ISTD	7.261	83741	5.0288	ng/ml			
513.0 -> 219.0			25853.47	20.9								
PFDoA	8.145	316719	11509.82		13C2-PFDoA - ISTD	8.145	78815	5.0045	ng/ml			
613.0 -> 319.0			10644.06	17.3								
PFDoS	9.189	49708	30533.65		13C8-PFOS - ISTD	7.492	41829	4.8697	ng/ml			
698.9 -> 99.0			24465.36	66.1								
PFDS	8.403	69596	17069.88		13C8-PFOS - ISTD	7.492	41829	4.7563	ng/ml			
599.0 -> 98.8			13946.80	59.2								
PFEESA	5.503	849783	90497.15		13C5-PFHxA - ISTD	5.109	164607	8.8032	ng/ml			
315.0 -> 83.0			8231.04	7.0								
PFHpA	5.781	439449	17000.33		13C4-PFHpA - ISTD	5.781	214698	4.9435	ng/ml			
362.9 -> 169.0			11201.76	15.4								
PFHpS	7.011	97119	18211.69		13C8-PFOS - ISTD	7.492	41829	4.8317	ng/ml			
449.0 -> 98.8			14316.53	51.8								

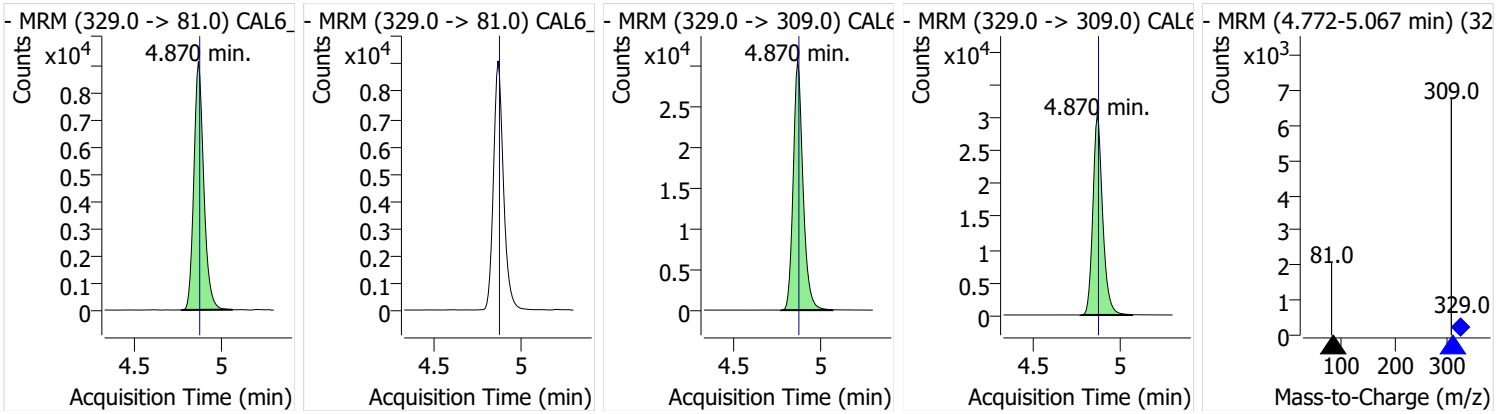
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFHxA	5.103	314645	17334.33		13C5-PFHxA - ISTD	5.109	164607	4.8781	ng/ml			
313.0 -> 118.9			779.82	3.0								
PFHxS	6.497	102362	2567.83		13C3-PFHxS - ISTD	6.496	48111	4.4609	ng/ml	✔	3	AMS 05/29/24
398.9 -> 99.0			4093.78	47.4								
PFMBA	4.530	309088	164257.93		13C5-PFPeA - ISTD	4.212	242403	9.6847	ng/ml			
PFMPA	3.382	31836	6776.67		13C5-PFPeA - ISTD	4.212	242403	9.4229	ng/ml	✔	3	AMS 05/29/24
PFNA	6.804	362923	11493.63		13C9-PFNA - ISTD	6.804	91123	5.0556	ng/ml			
463.0 -> 219.0			26323.78	23.5								
PFNS	7.959	86731	22738.40		13C8-PFOS - ISTD	7.492	41829	4.8142	ng/ml			
549.0 -> 98.8			35999.67	54.8								
PFOA	6.321	432347	2701.52		13C8-PFOA - ISTD	6.320	191643	4.9131	ng/ml			
413.0 -> 169.0			15148.32	22.8								
PFOS	7.493	91622	2841.56		13C8-PFOS - ISTD	7.492	41829	4.5177	ng/ml	✔	3	AMS 05/29/24
499.0 -> 99.0			6428.71	51.6								
PFOSA	8.702	164620	1682631.20		13C8-PFOSA - ISTD	8.701	76262	5.0110	ng/ml			
497.9 -> 478.0			26614.80	2.4								
PFPeA	4.214	475208	26449.11		13C5-PFPeA - ISTD	4.212	242403	9.9497	ng/ml			
263.0 -> 69.0			686.00	0.3								
PFPeS	5.898	123605	16456.05		13C3-PFHxS - ISTD	6.496	48111	4.7426	ng/ml			
349.0 -> 98.9			9506.86	48.3								
PFTeDA	8.951	408891	25294.93		13C2-PFTeDA - ISTD	8.950	104528	5.0523	ng/ml			
713.0 -> 168.9			27714.81	7.6								
PFTrDA	8.565	328703	22841.58		13C2-PFDoA - ISTD	8.145	78815	5.0164	ng/ml			
663.0 -> 168.9			24993.22	14.6								
PFUnA	7.702	298870	13131.03		13C7-PFUnA - ISTD	7.701	78016	4.9409	ng/ml			
563.0 -> 269.1			19715.63	24.7								
TDCA	6.154	22	15.61					-	ng/ml			
499.0 -> 99.0			4.28	*7.3								
13C2-8:2FTS	7.038	67381	483805.93		18O2-PFHxS	6.495	46958	5.2543	ng/ml			
529.0 -> 81.0			6654.06	40.8								
13C2-4:2FTS	4.870	122104	47532.71		18O2-PFHxS	6.495	46958	5.1077	ng/ml			
329.0 -> 81.0			6483.81	30.1								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
13C2-6:2FTS	6.113	110663	21794.96		18O2-PFHxS	6.495	46958	5.2081	ng/ml			
429.0 -> 81.0			7966.82	25.1								
13C5-PFHxA	5.109	164607	15545.79		13C2-PFHxA	5.110	155300	2.5016	ng/ml			
318.0 -> 120.0			250.02	1.8								
13C6-PFDA	7.261	83741	4364.62		13C2-PFDA	7.262	80512	1.3062	ng/ml			
13C7-PFUnA	7.701	78016	17767.32		13C2-PFDA	7.262	80512	1.3016	ng/ml			
13C8-PFOA	6.320	191643	27485.30		13C4-PFOA	6.320	24099	2.4304	ng/ml			
13C8-PFOS	7.492	41829	5346.81		13C4-PFOS	7.492	45419	2.4830	ng/ml			
507.0 -> 99.0			9469.55	53.6								
13C8-PFOSA	8.701	76262	20540.48		13C4-PFOS	7.492	45419	2.5052	ng/ml			
13C9-PFNA	6.804	91123	8848.15		13C5-PFNA	6.804	120505	1.2290	ng/ml			
13C5-PFPeA	4.212	242403	18748.84		13C2-PFHxA	5.110	155300	4.9680	ng/ml			
13C2-PFDoA	8.145	78815	9540.64		13C2-PFDA	7.262	80512	1.2740	ng/ml			
13C4-PFHpA	5.781	214698	13739.38		13C2-PFHxA	5.110	155300	2.5011	ng/ml			
13C4-PFBA	2.631	282138	78023.29		13C3-PFBA	2.625	130233	9.9170	ng/ml	✔	3	AMS 05/29/24
13C3-PFHxS	6.496	48111	6045.66		18O2-PFHxS	6.495	46958	2.4966	ng/ml			
402.0 -> 99.0			8913.85	55.1								
13C3-PFBS	5.120	70853	13549.58		18O2-PFHxS	6.495	46958	2.5408	ng/ml			
301.9 -> 98.9			8559.99	36.6								
13C3-HFPODA	5.367	192432	35751.13		13C2-PFHxA	5.110	155300	10.1971	ng/ml			
287.0 -> 185.0			15254.07	45.0								
13C2-PFTeDA	8.950	104528	35500.02		13C2-PFDA	7.262	80512	1.2530	ng/ml			
D9-NEtFOSE	10.227	243809	59286.96		13C4-PFOS	7.492	45419	24.7582	ng/ml			
D3-NMeFOSA	10.043	24194	9080.97		13C4-PFOS	7.492	45419	2.4329	ng/ml			
D3-NMeFOSAA	7.266	169079	43525.82		13C4-PFOS	7.492	45419	5.0090	ng/ml			
D5-NEtFOSA	10.354	25387	4175.35		13C4-PFOS	7.492	45419	2.5077	ng/ml			
D5-NEtFOSAA	7.461	85287	32681.75		13C4-PFOS	7.492	45419	5.0469	ng/ml			
D7-NMeFOSE	9.881	232075	93634.31		13C4-PFOS	7.492	45419	25.2182	ng/ml			

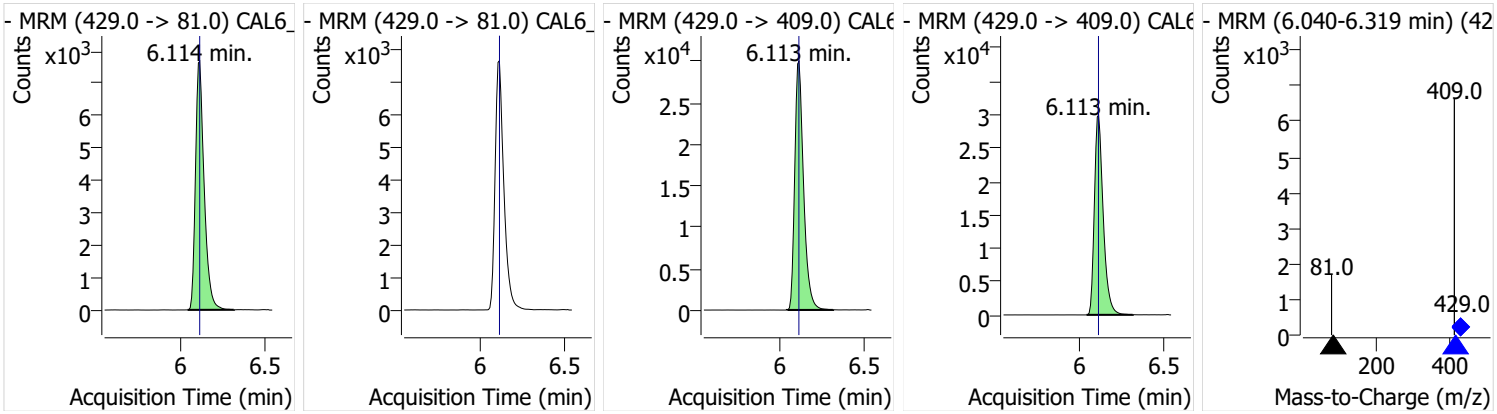
11Cl-PF3OUdS



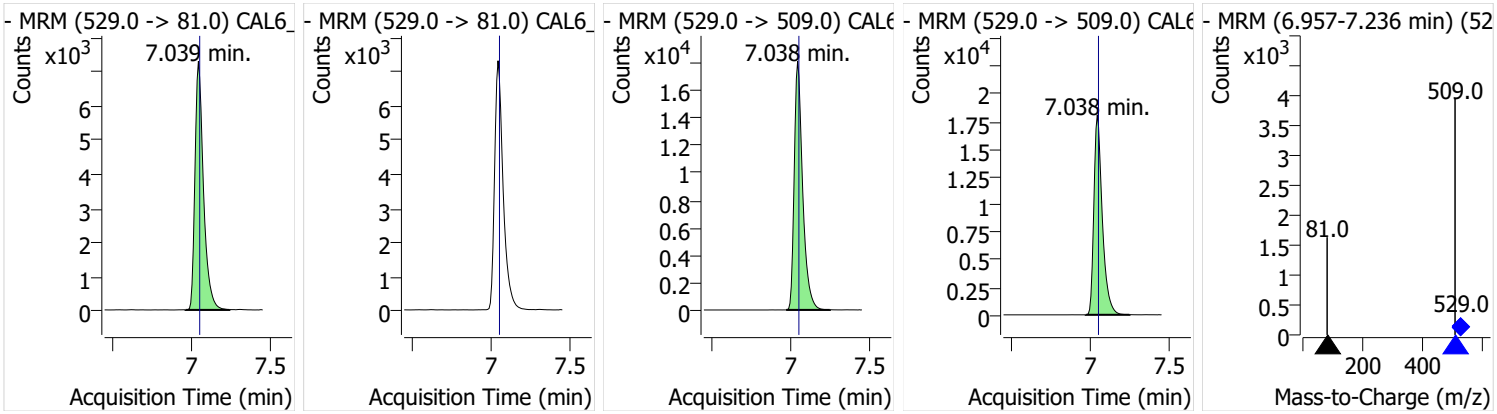
13C2-4:2FTS - ISTD



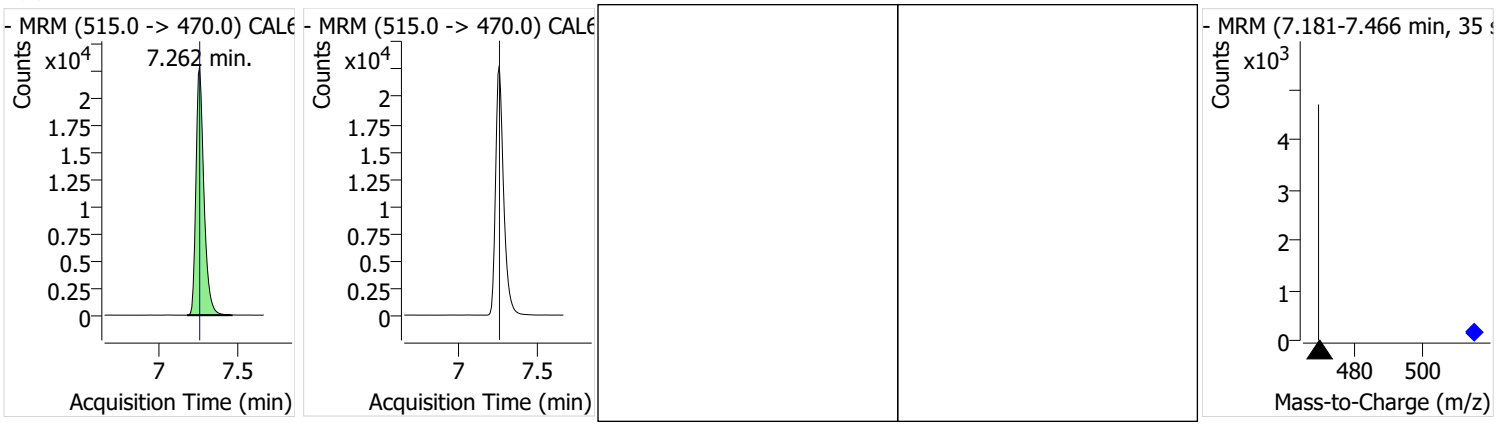
13C2-6:2FTS - ISTD



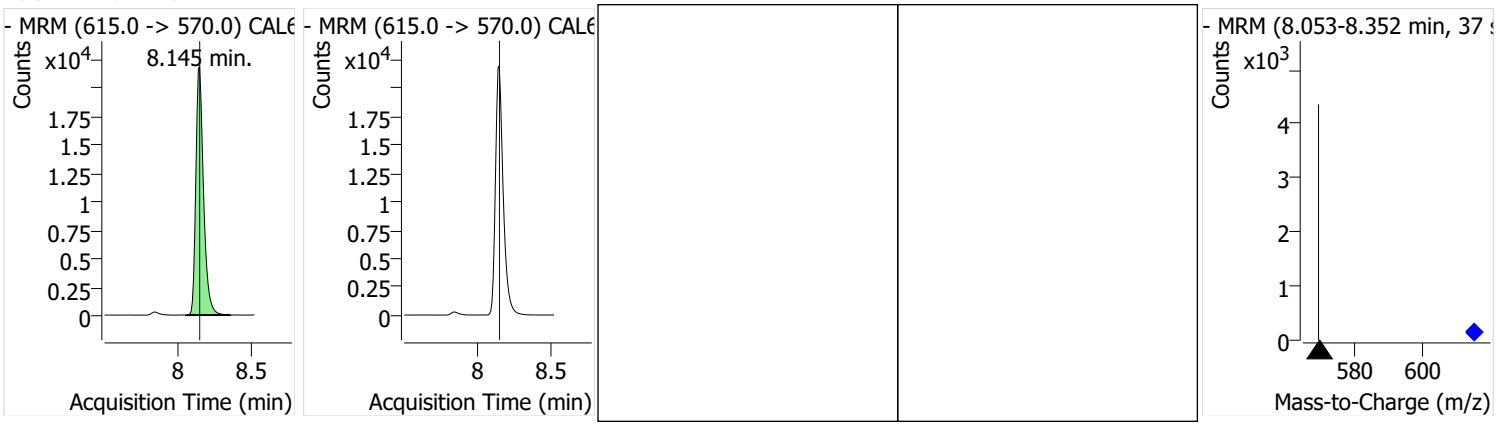
13C2-8:2FTS - ISTD



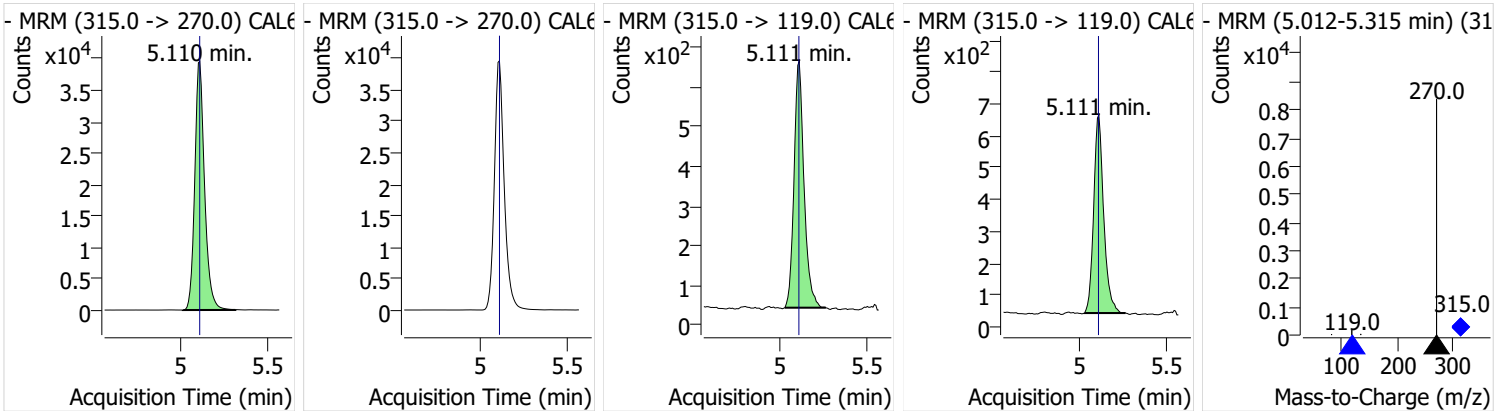
13C2-PFDA



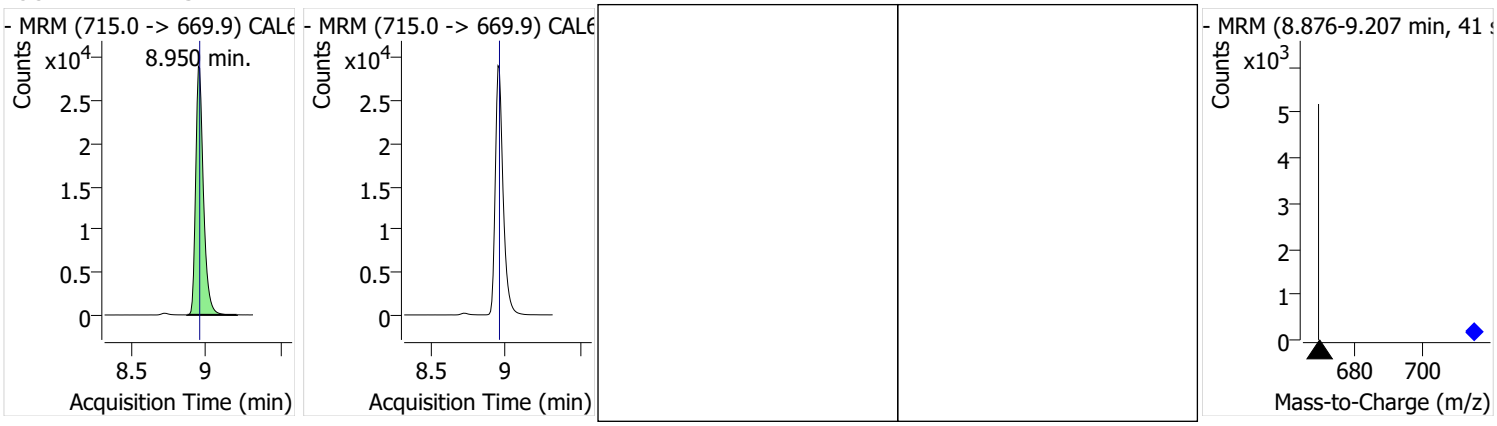
13C2-PFDoA - ISTD



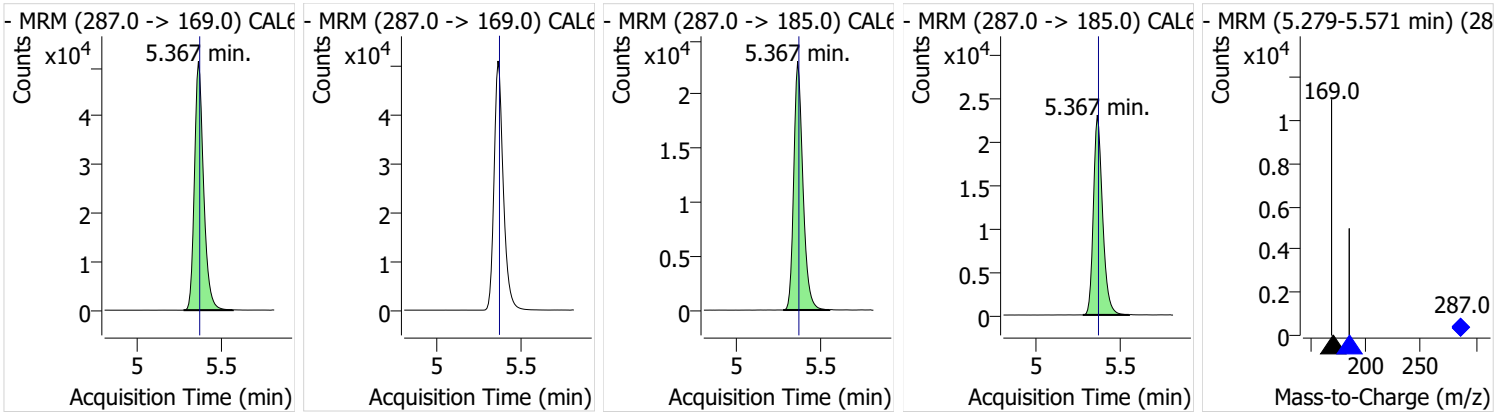
13C2-PFHxA



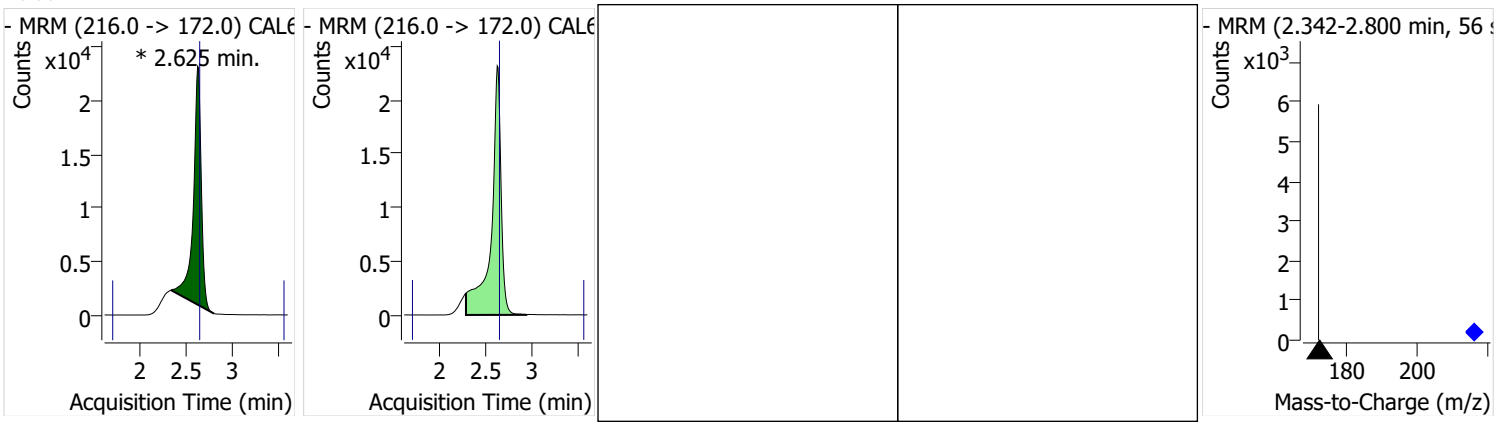
13C2-PFTeDA - ISTD



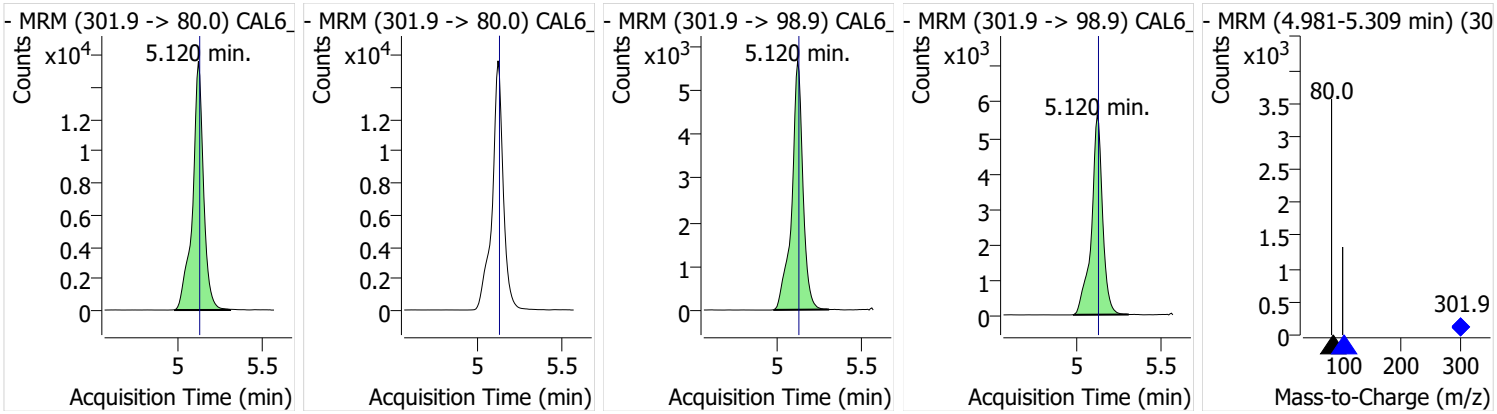
13C3-HFPODA - ISTD



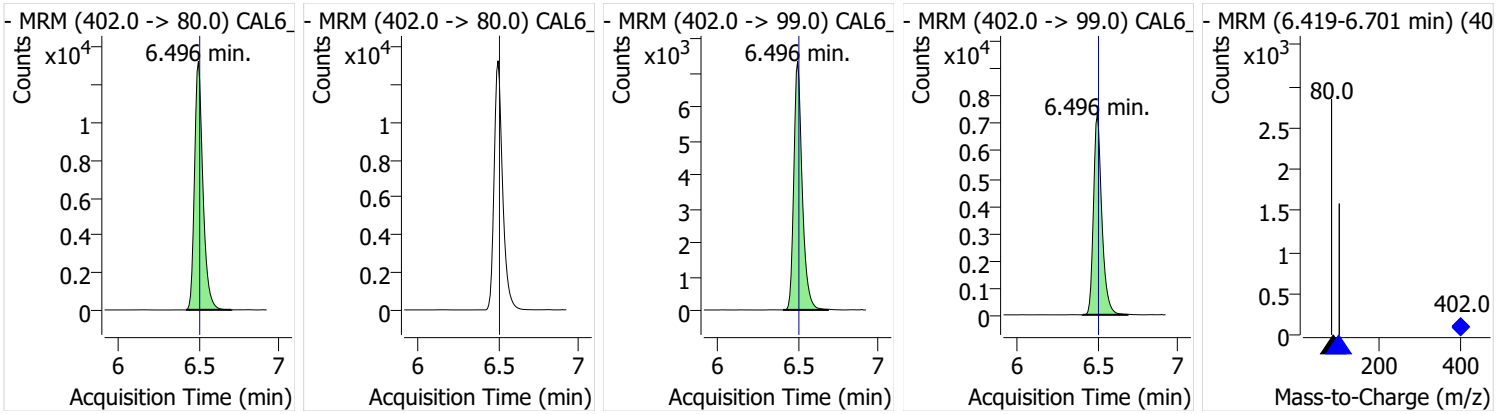
13C3-PFBA



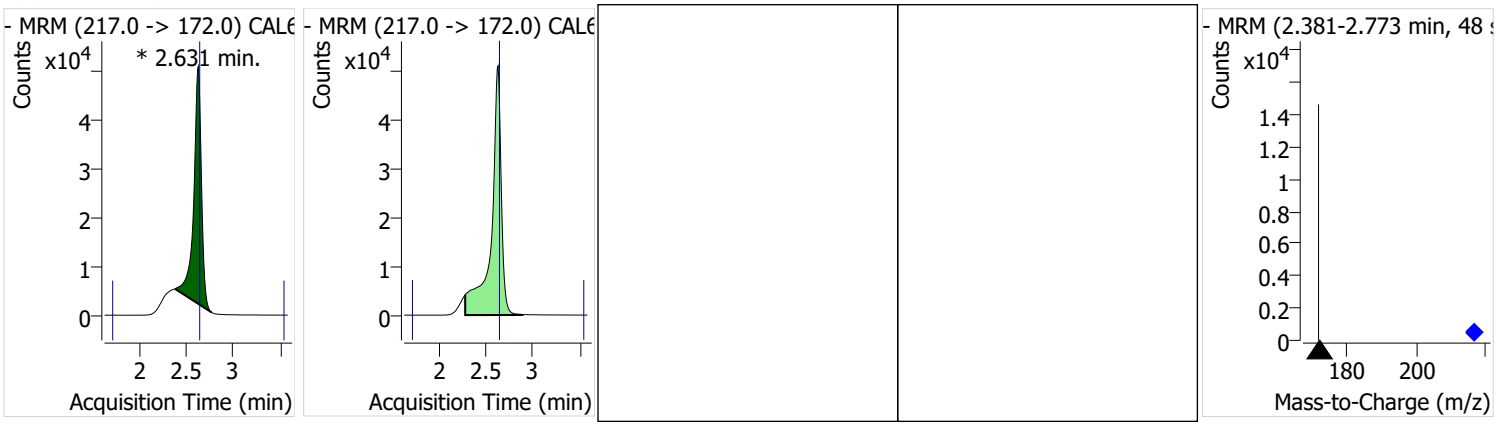
13C3-PFBS - ISTD



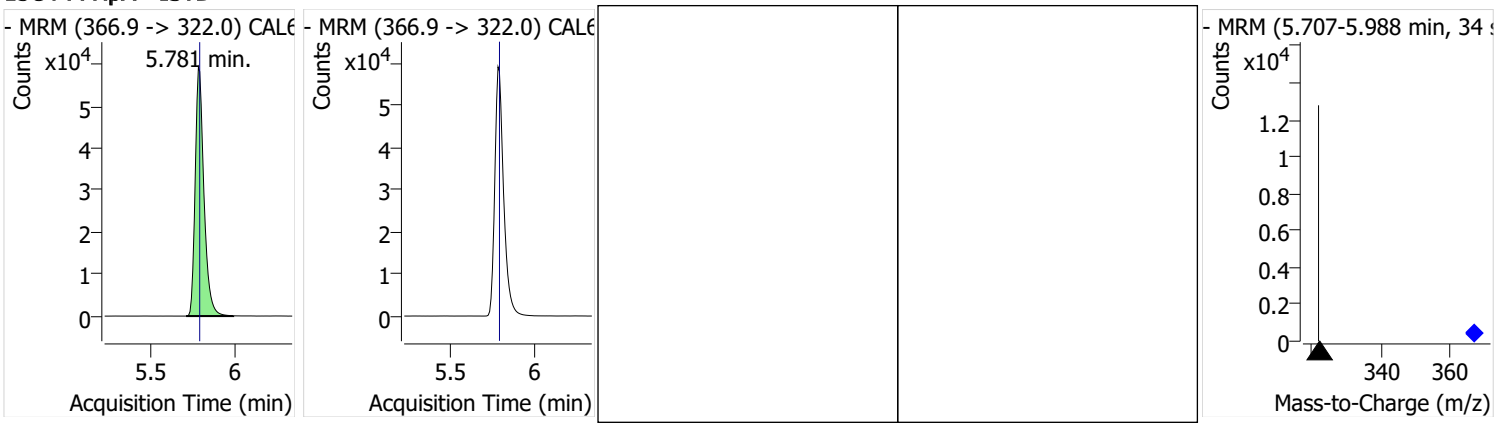
13C3-PFHxS - ISTD



13C4-PFBA - ISTD



13C4-PFHpA - ISTD



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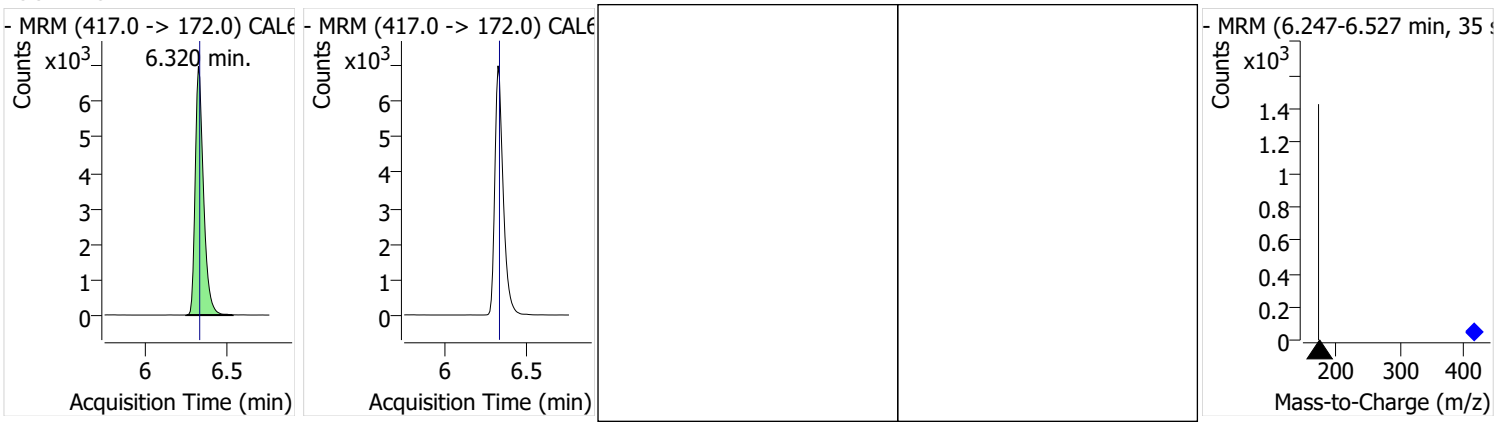

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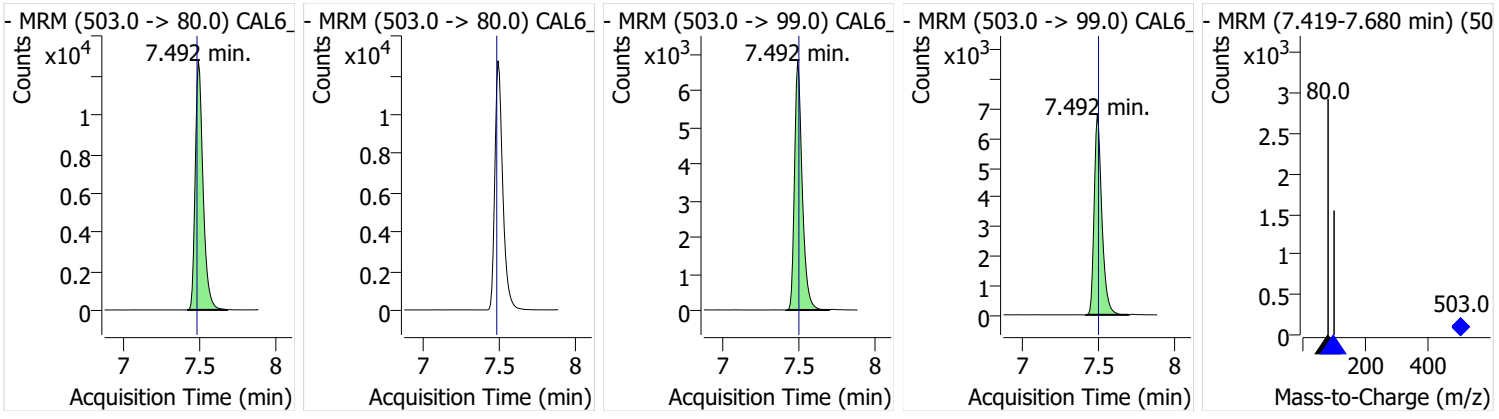
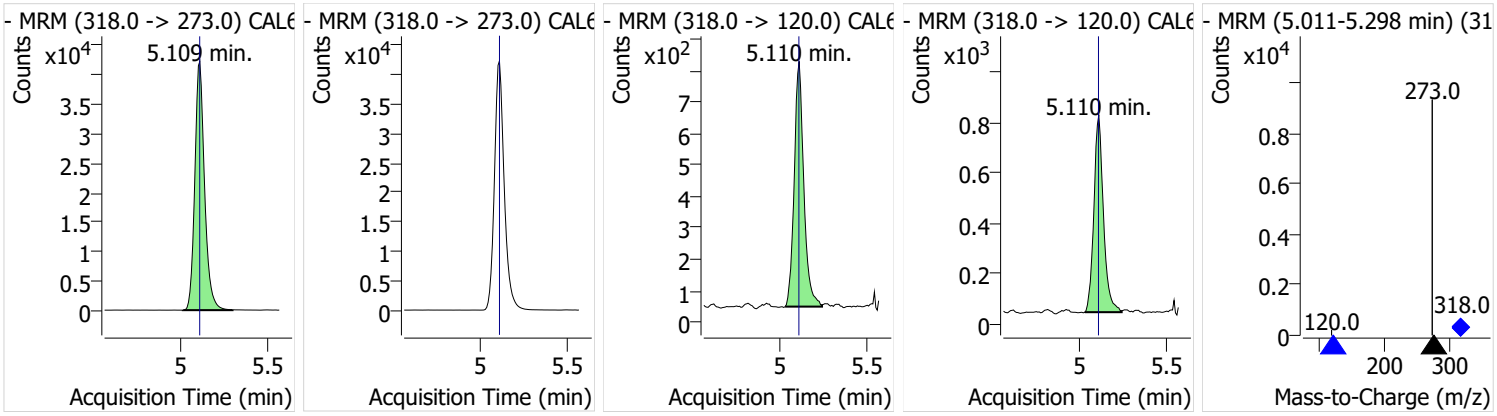
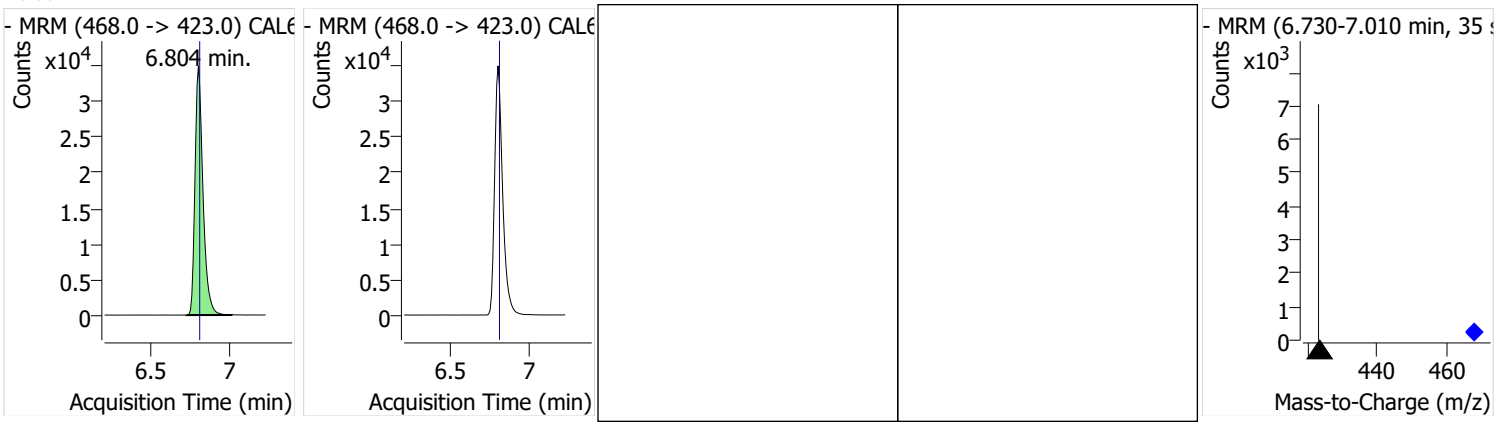


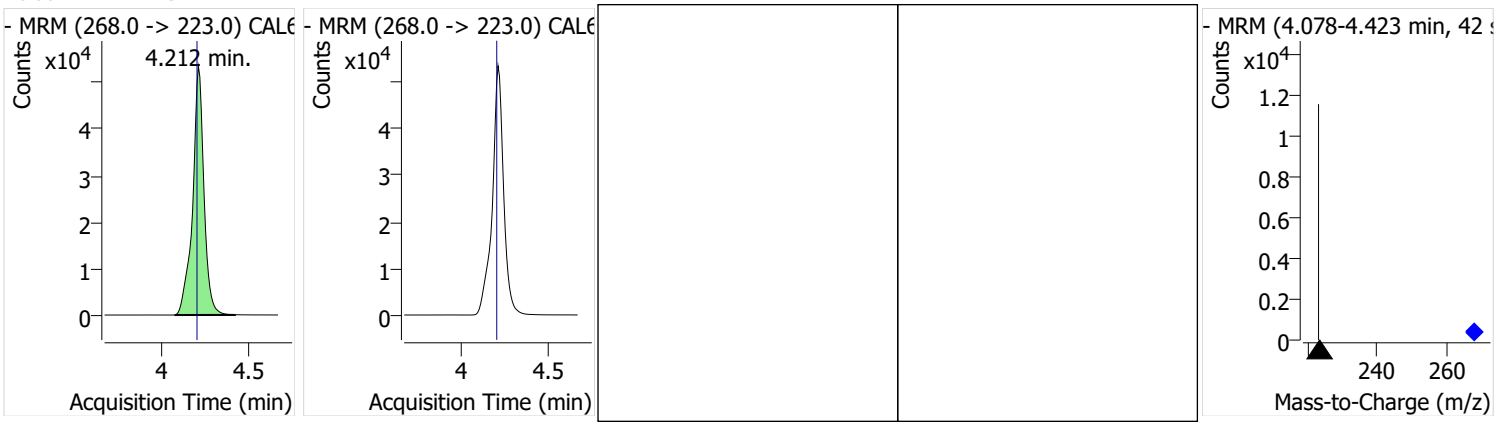
13C5-PFHxA - ISTD



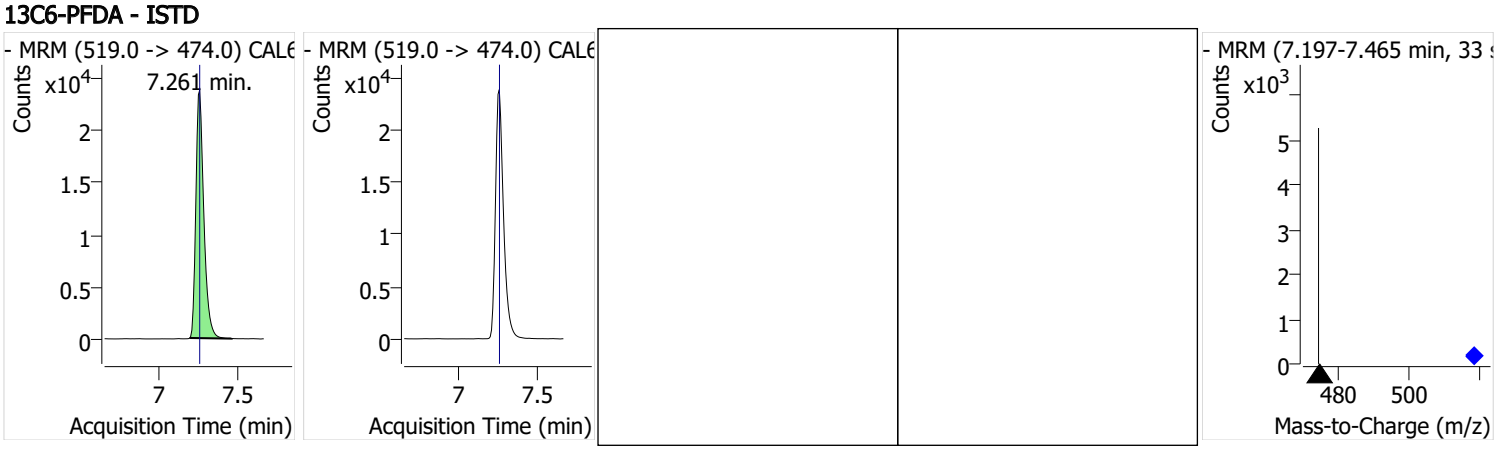
13C5-PFNA



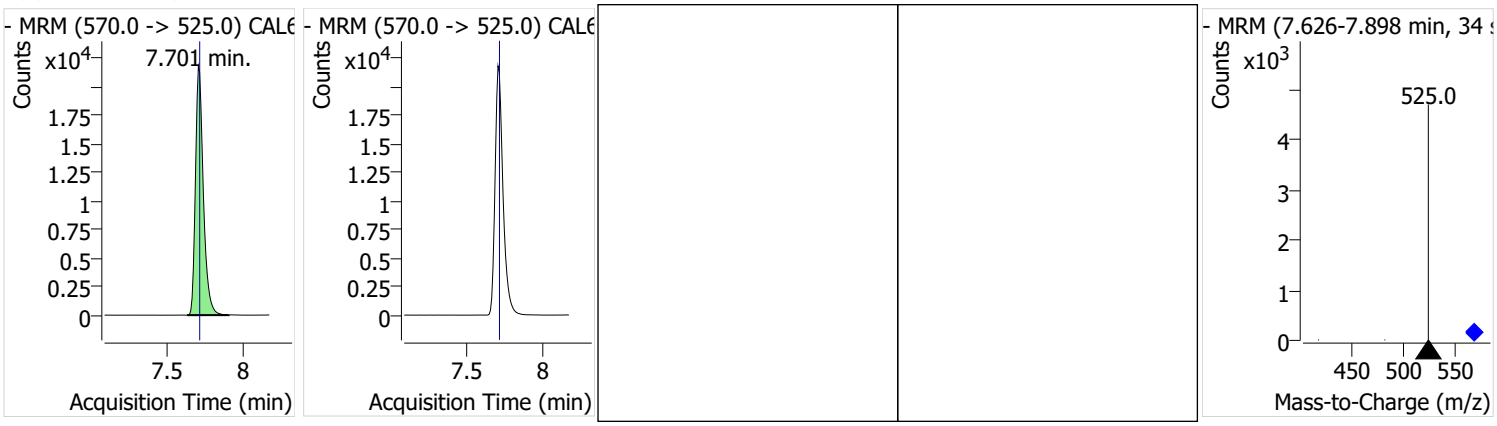
13C5-PFPeA - ISTD



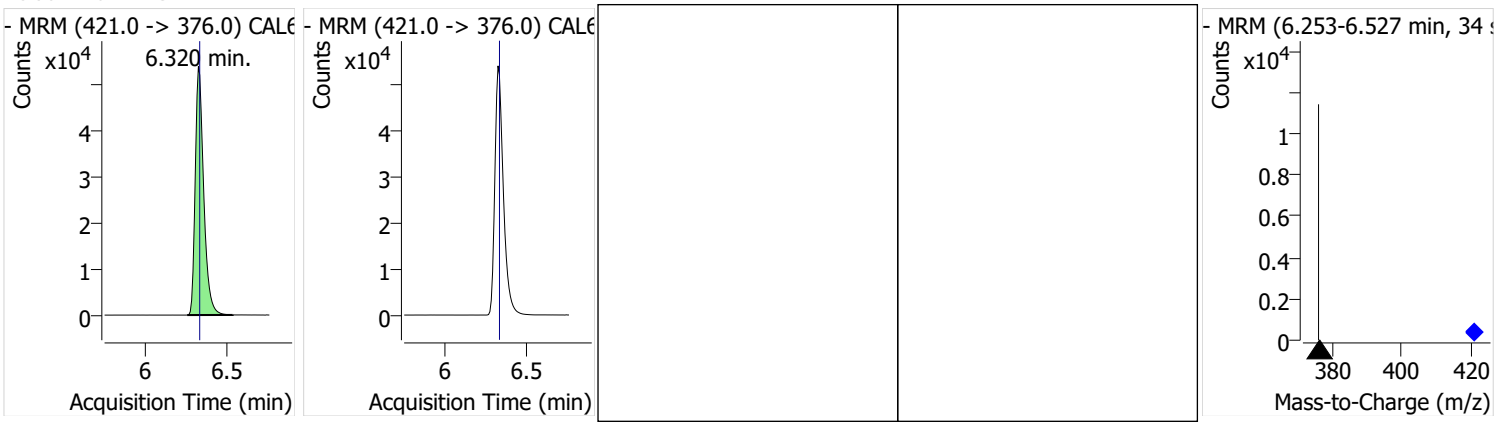
13C6-PFDA - ISTD



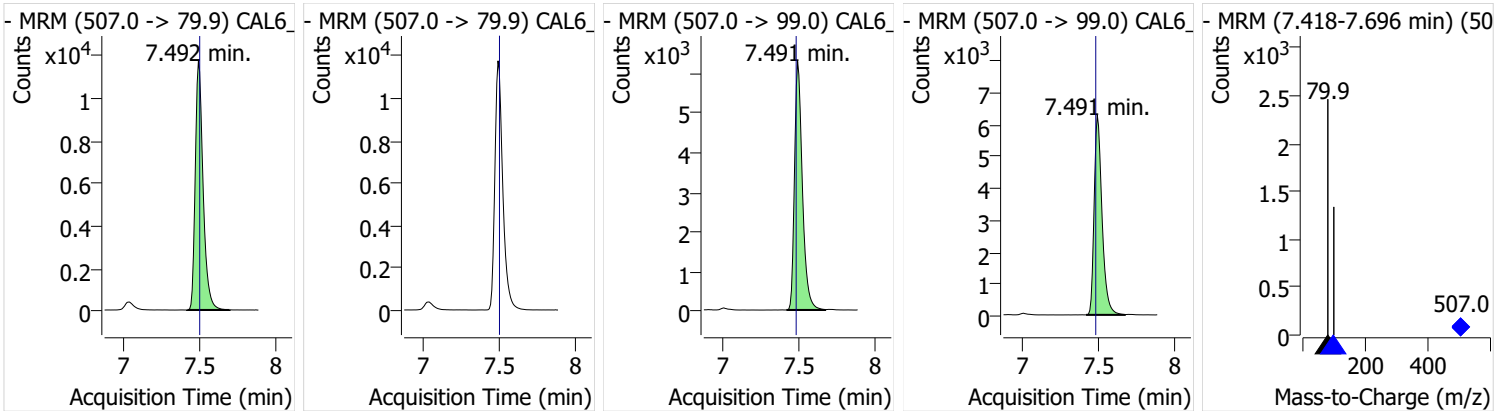
13C7-PFUnA - ISTD



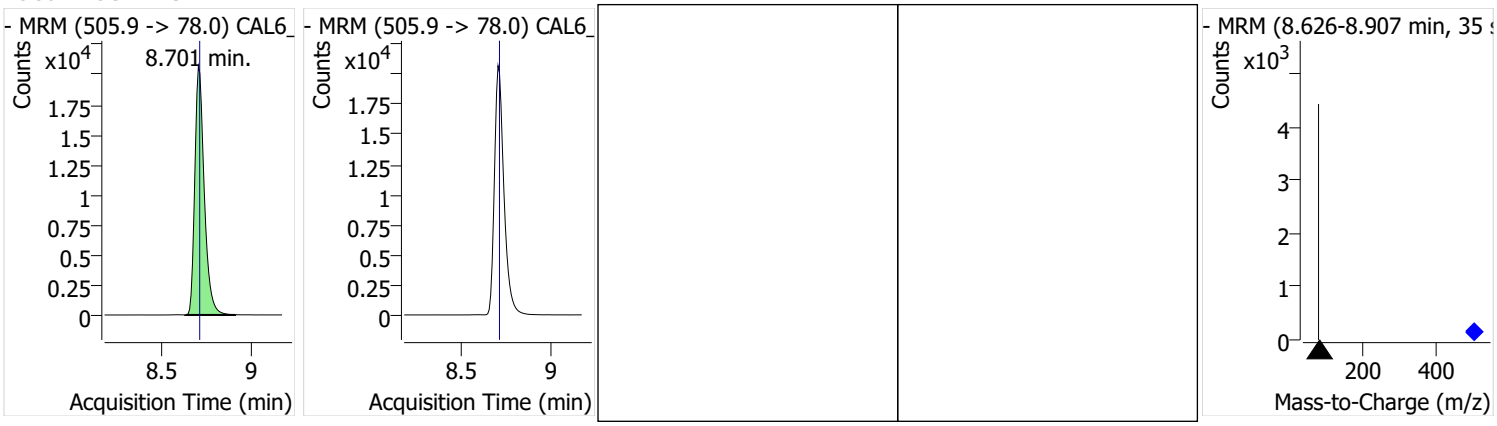
13C8-PFOA - ISTD



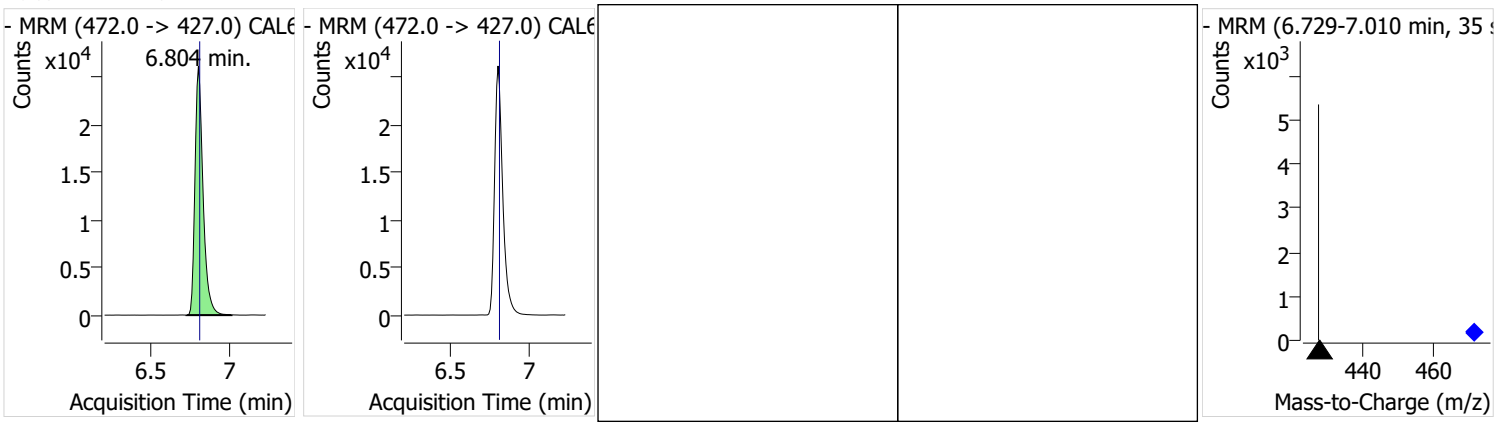
13C8-PFOS - ISTD



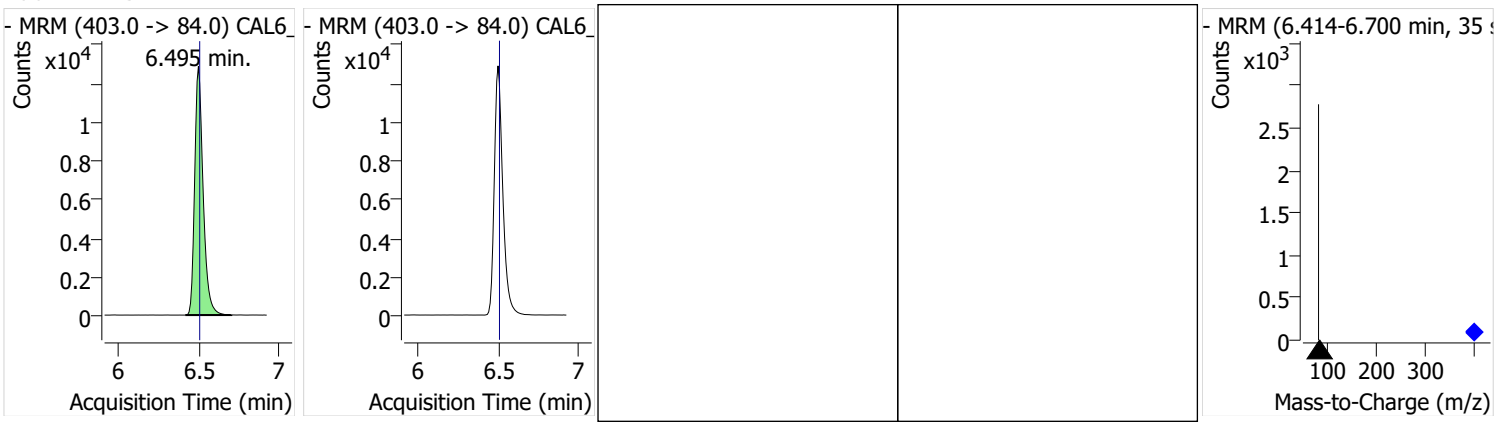
13C8-PFOSA - ISTD



13C9-PFNA - ISTD



18O2-PFHxS



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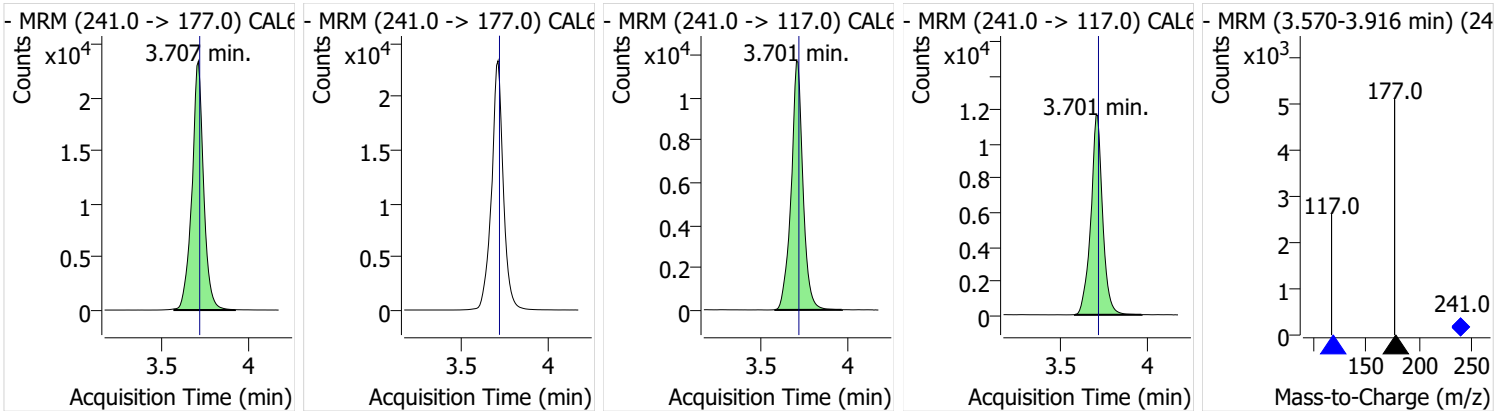

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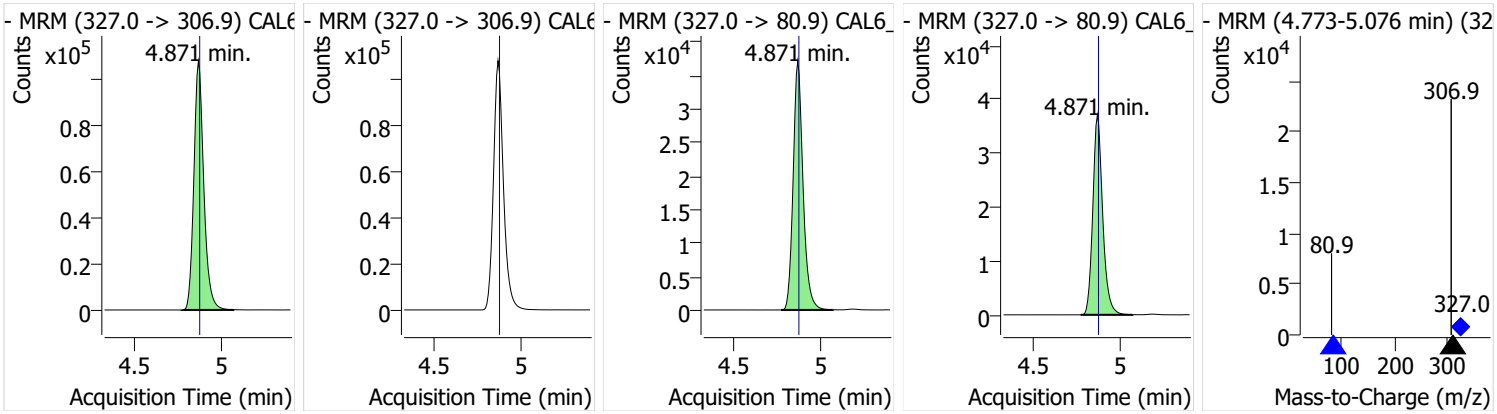

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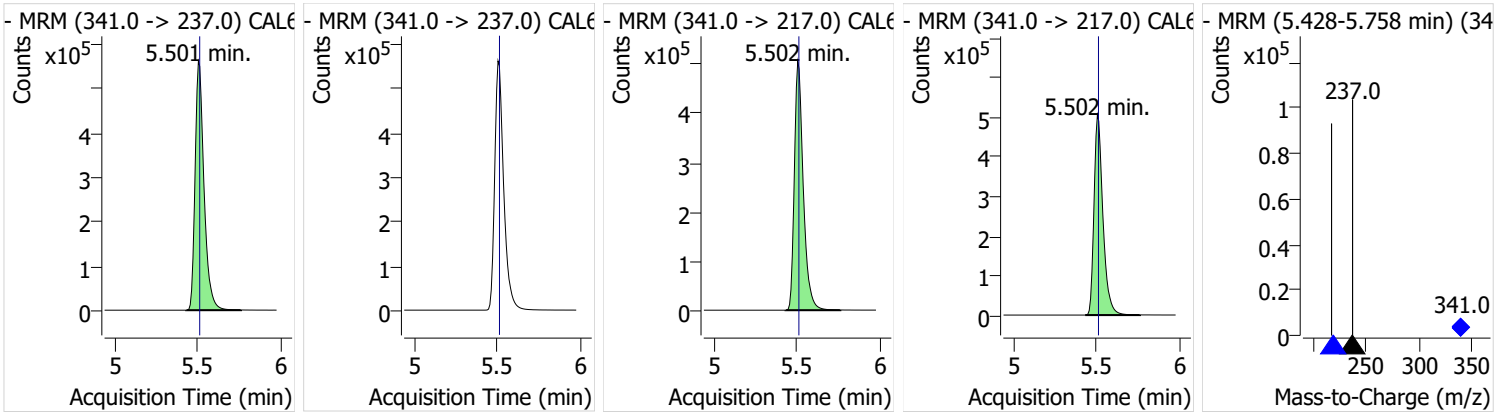

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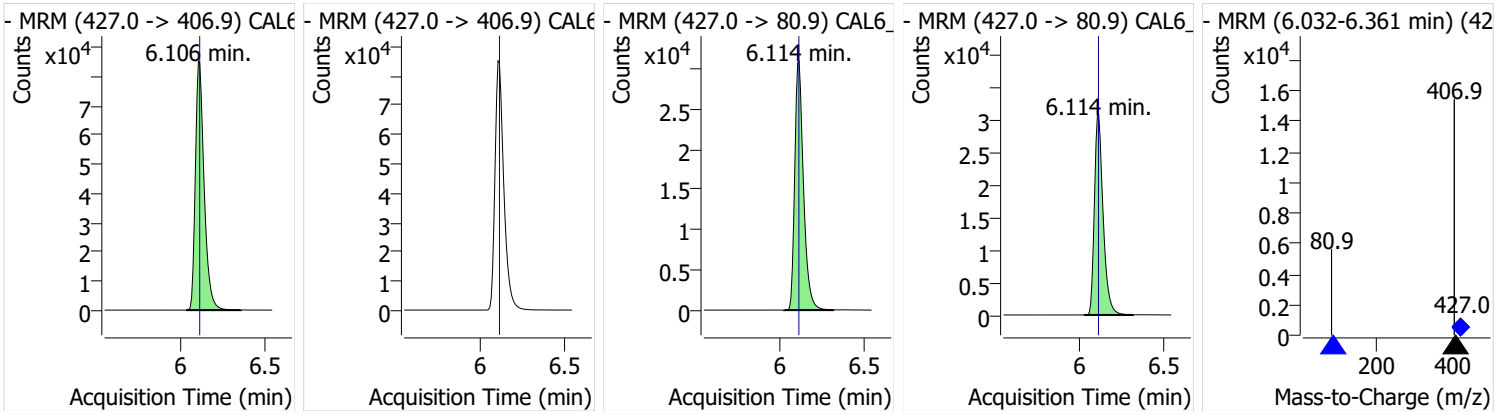

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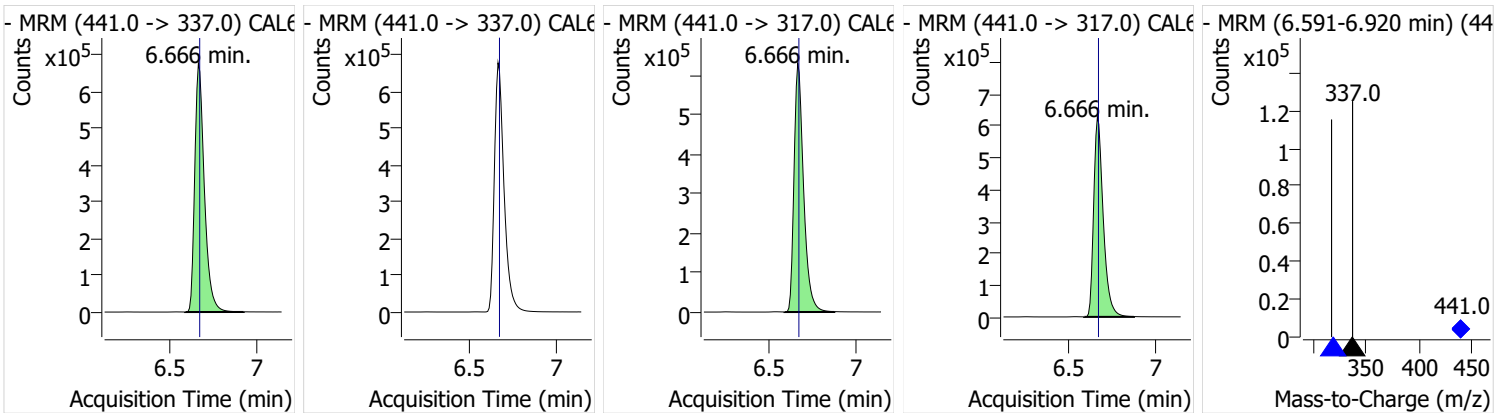
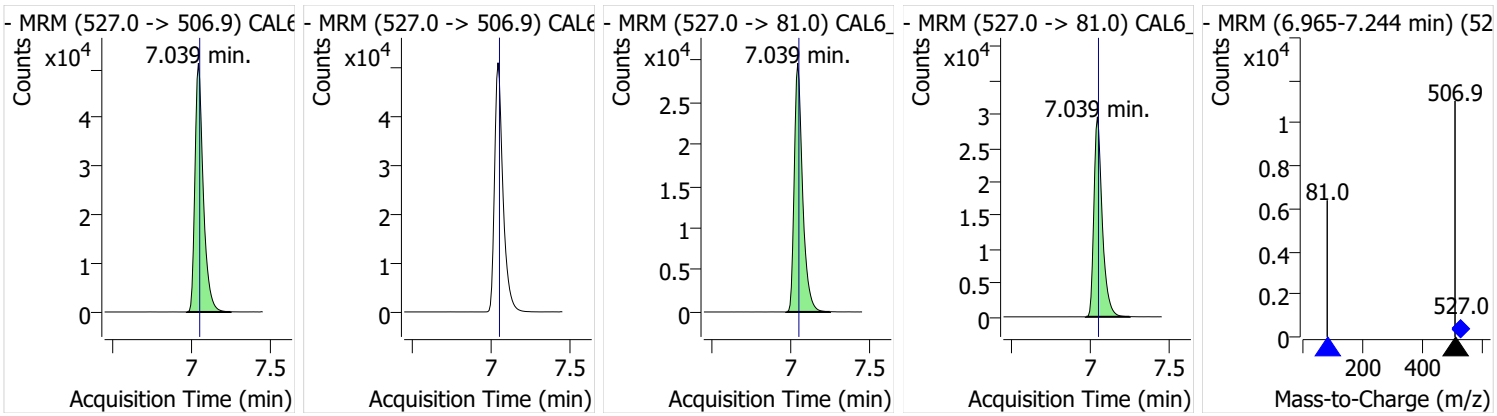


8:2FTS



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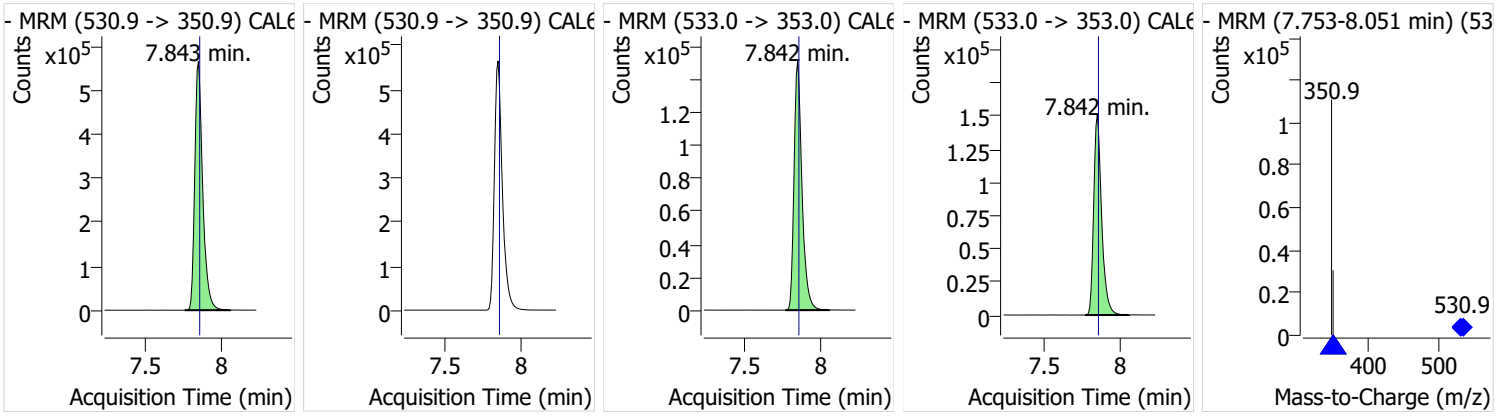

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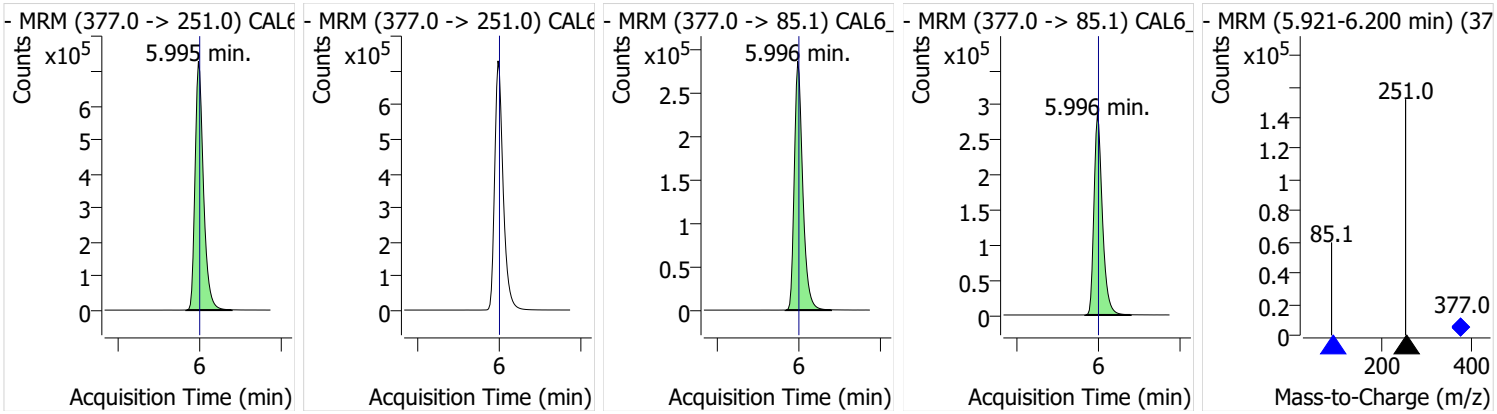
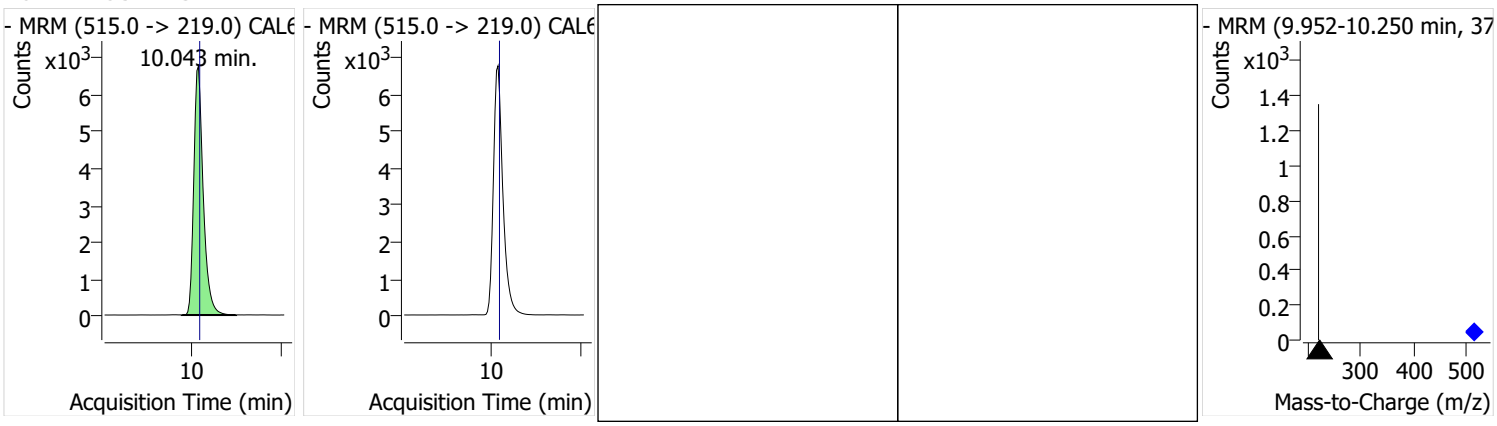
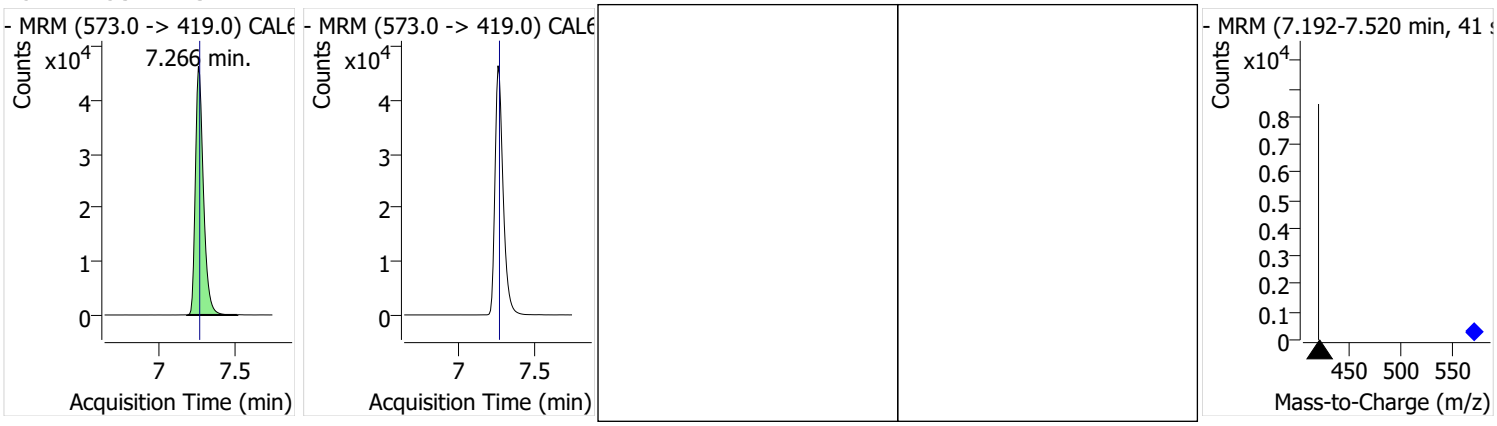


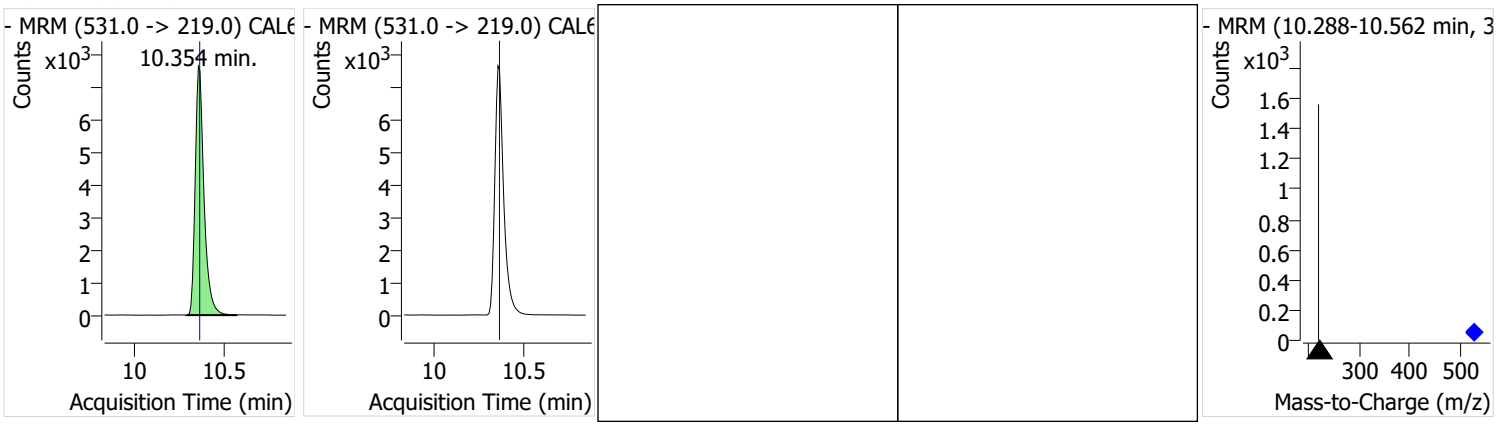
D3-NMeFOSA - ISTD



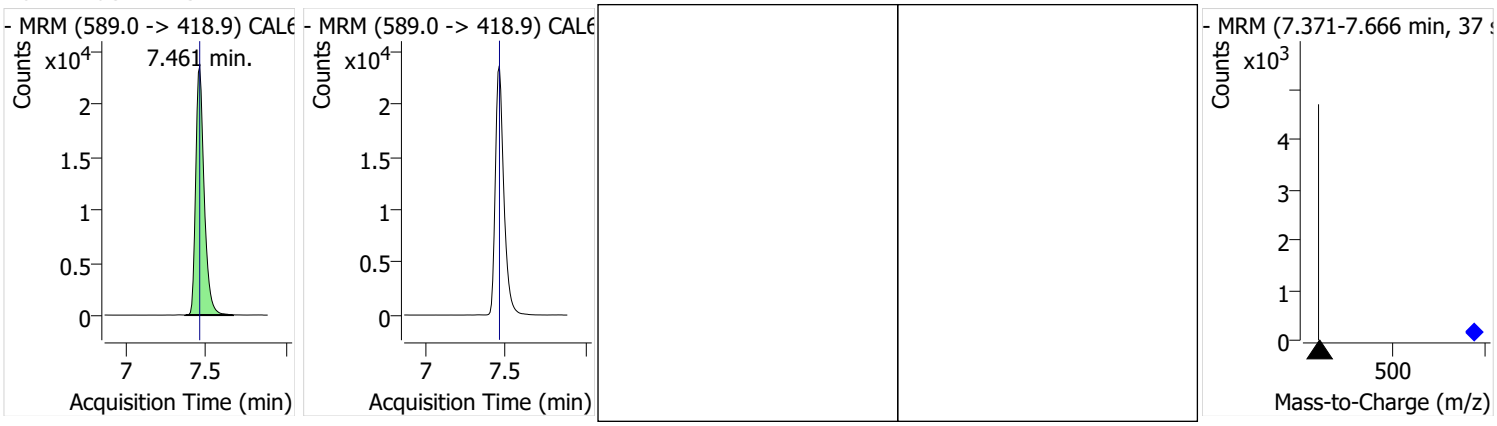
D3-NMeFOSAA - ISTD



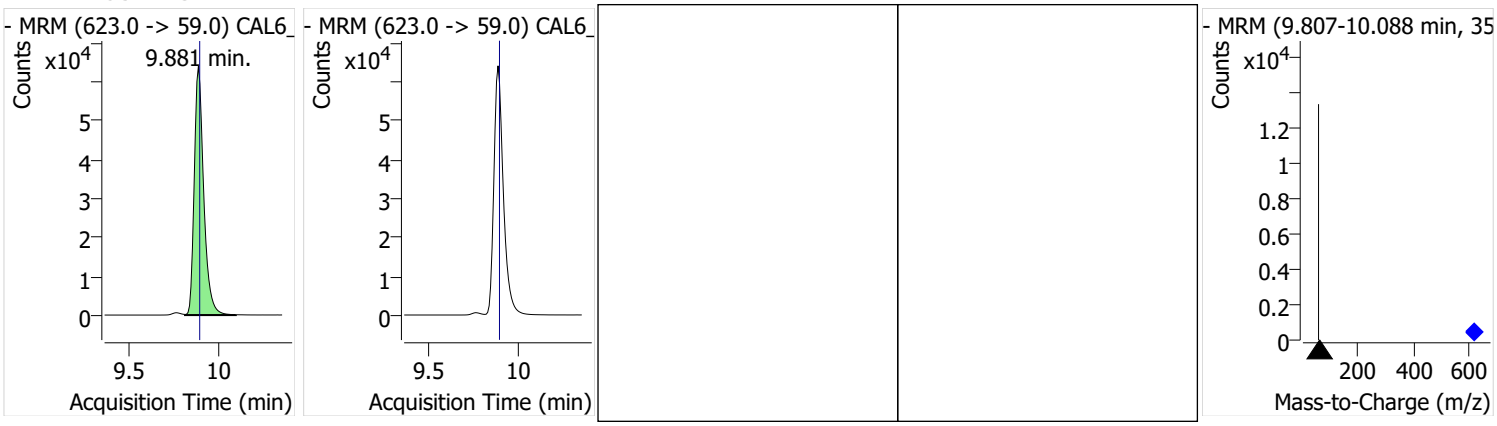
D5-NEtFOSA - ISTD



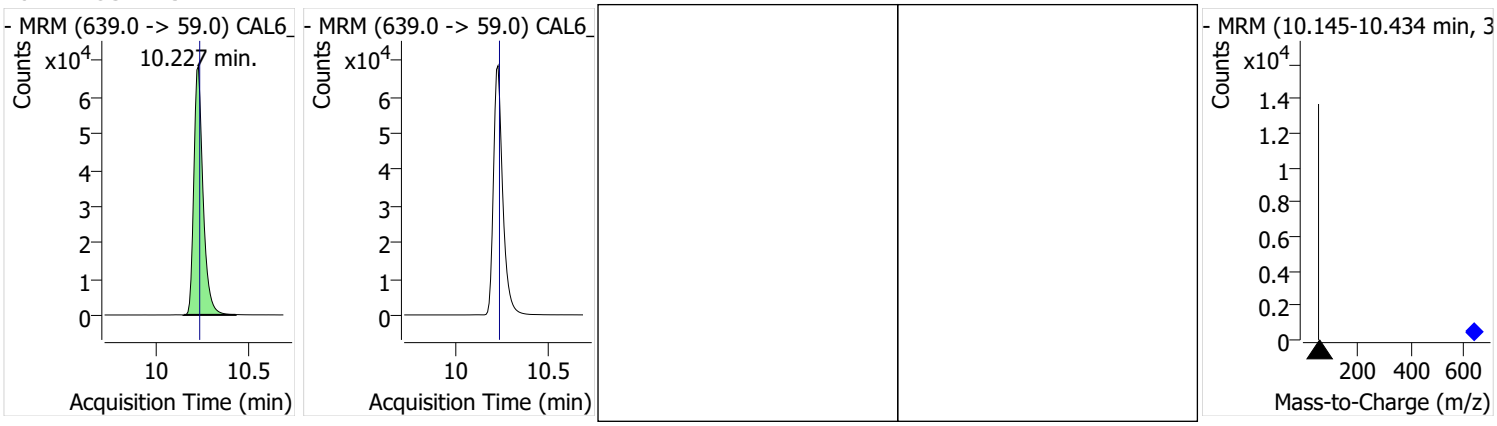
D5-NEtFOSAA - ISTD



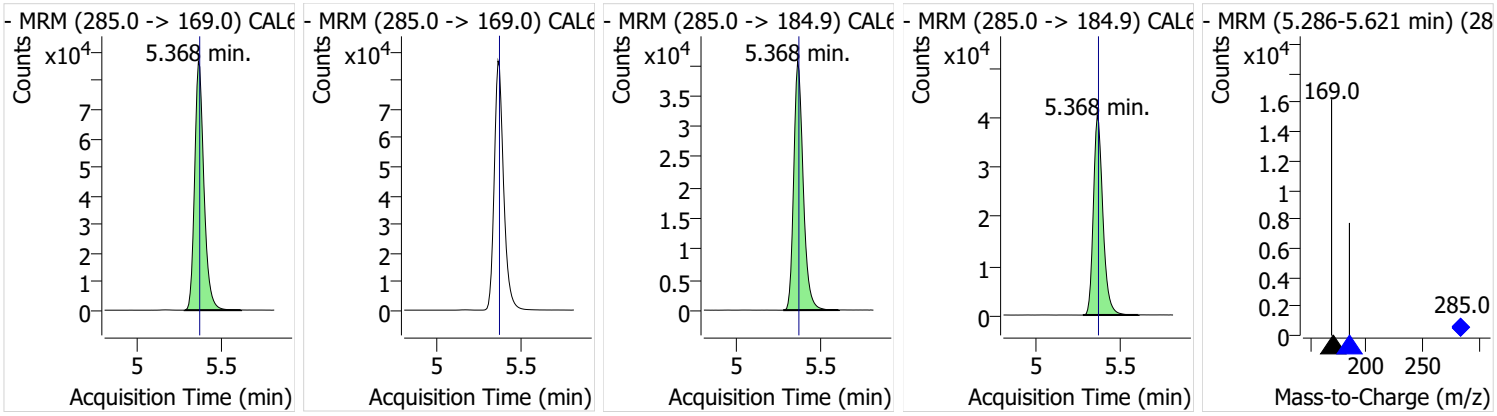
D7-NMeFOSE - ISTD



D9-NEtFOSE - ISTD



HFPO-DA



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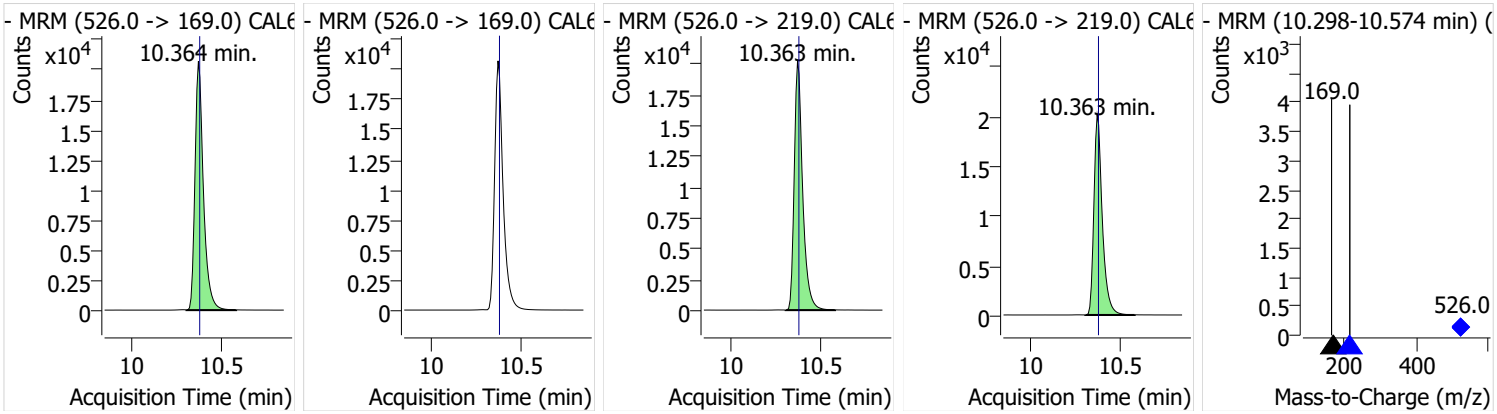

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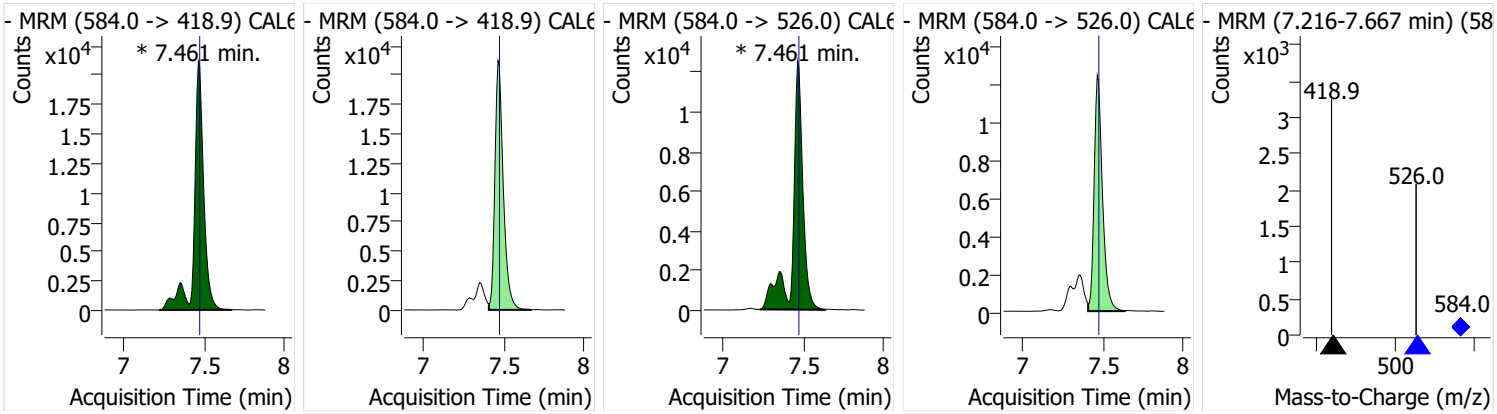

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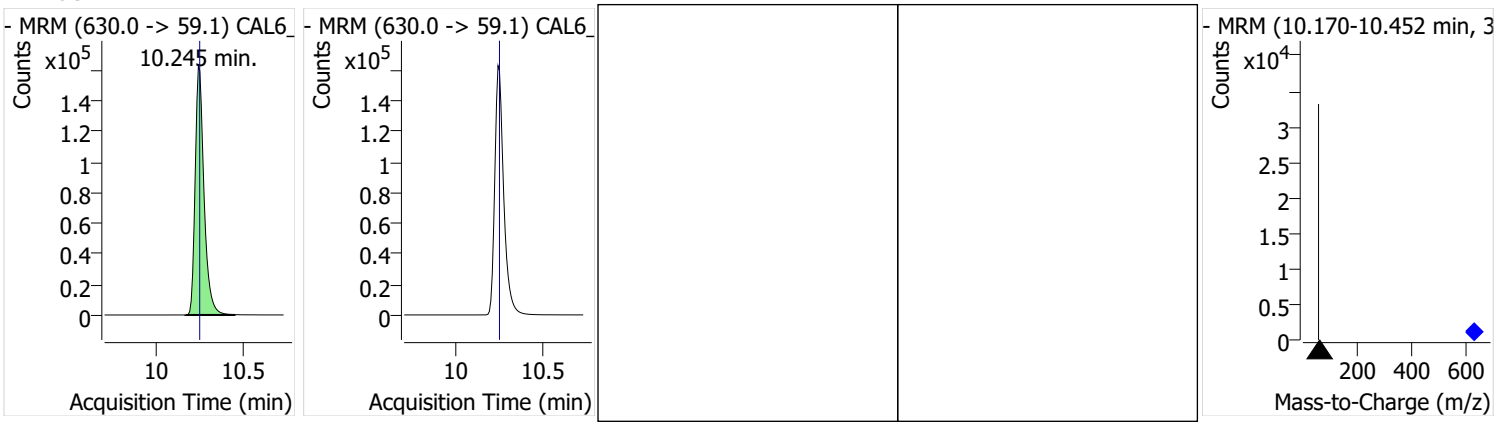

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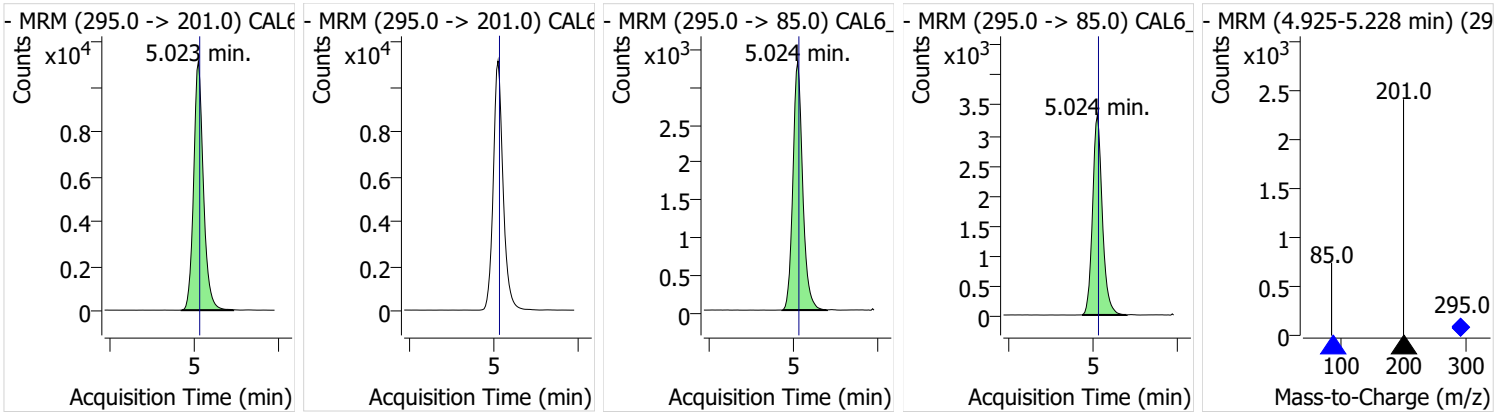

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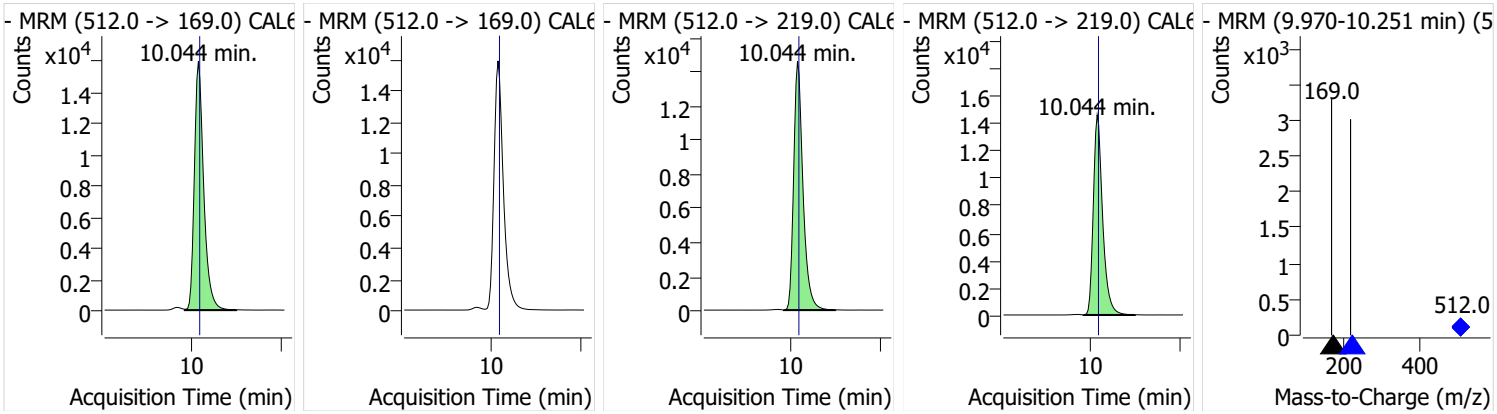

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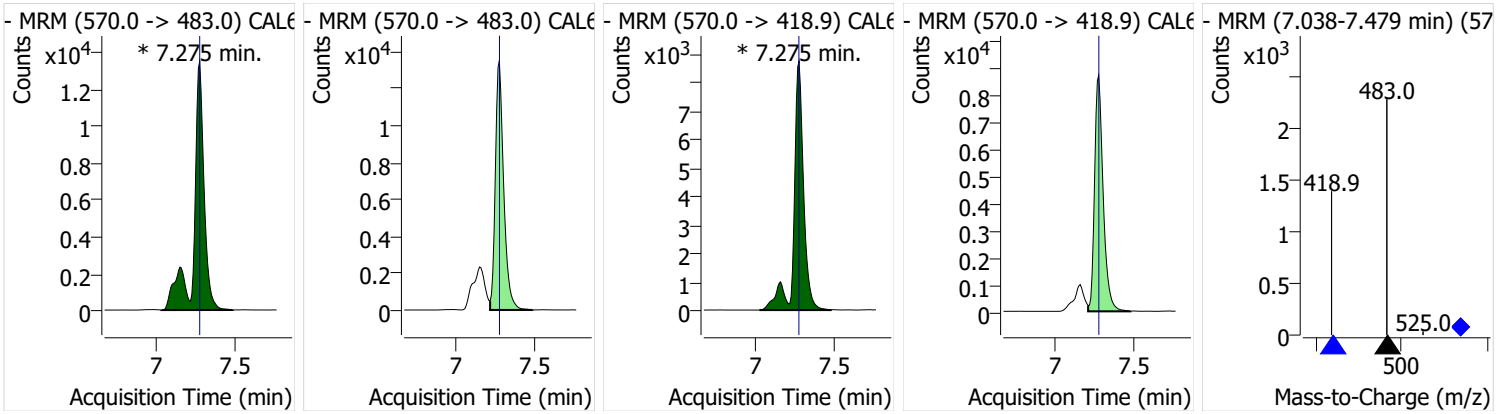

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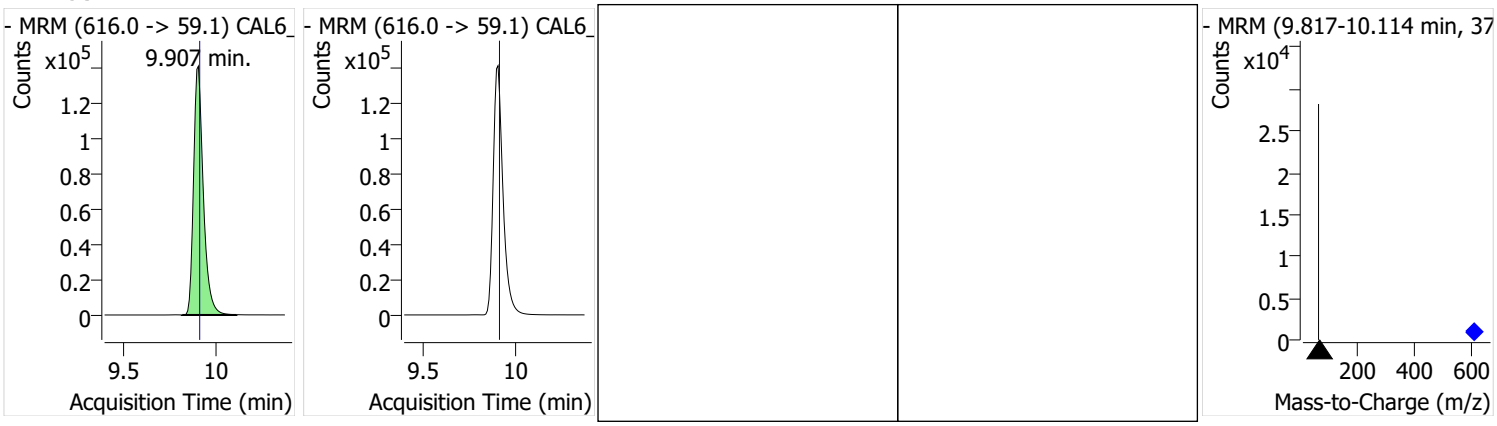

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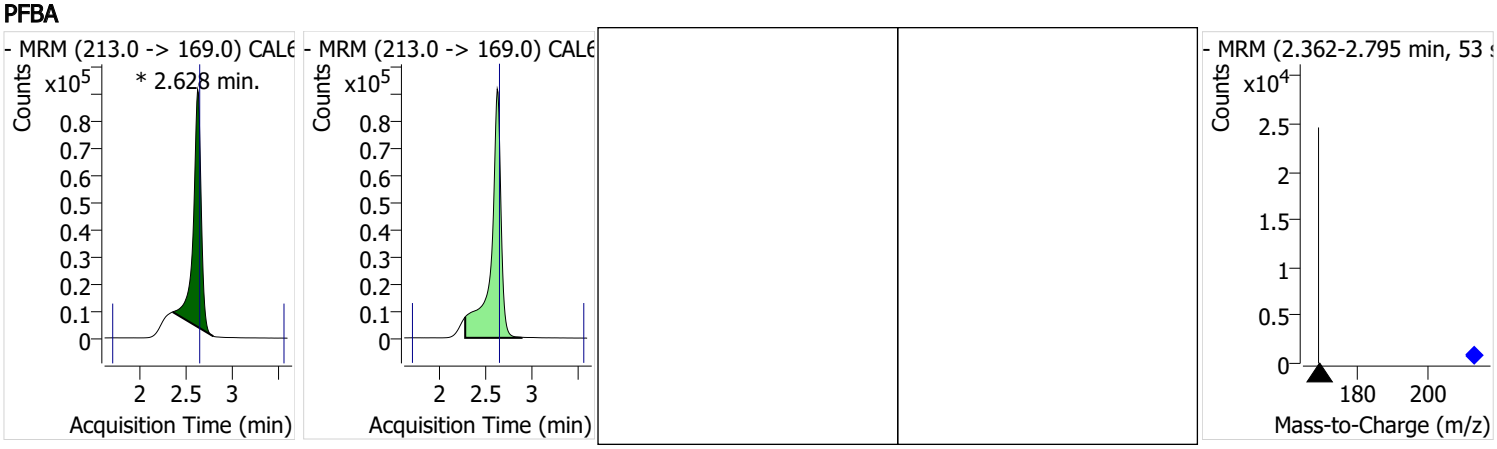

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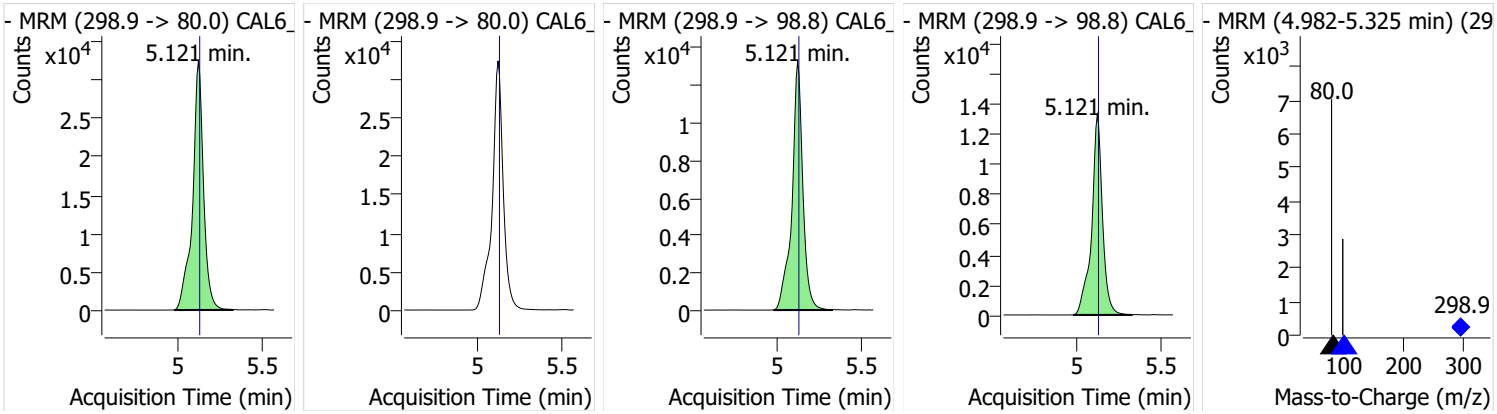

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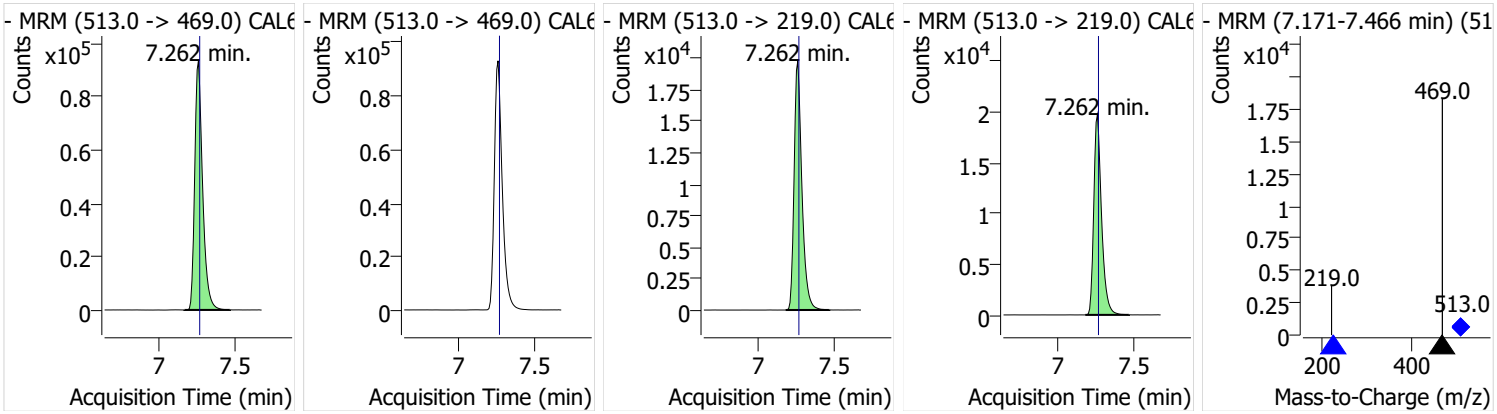
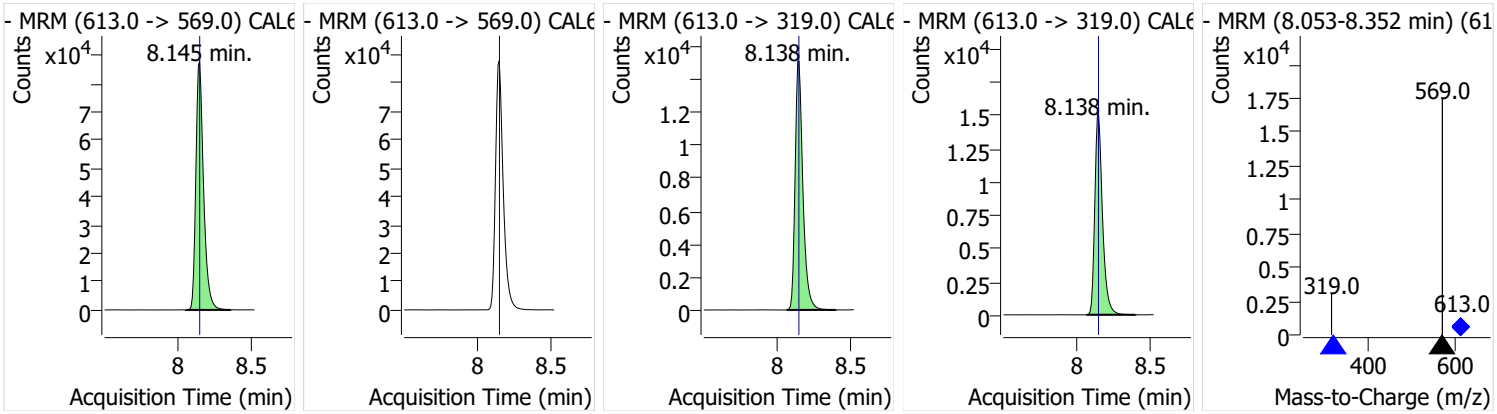


PFDoA



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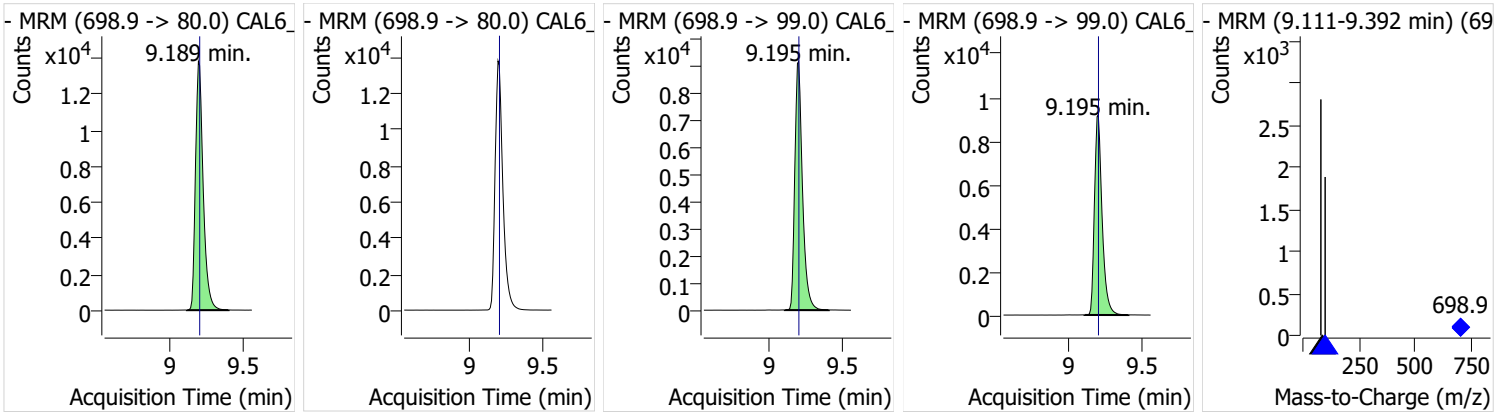

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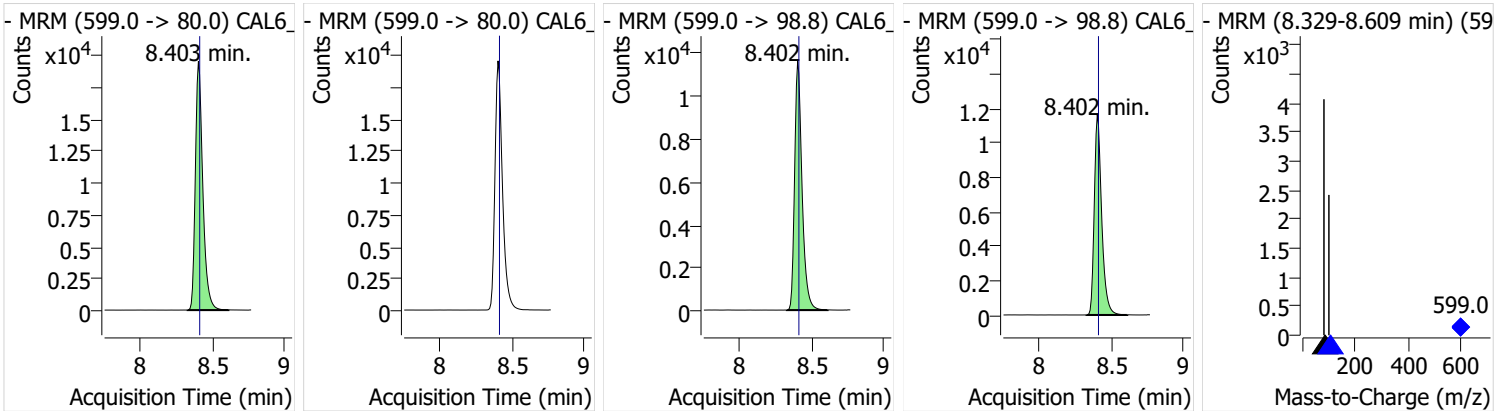

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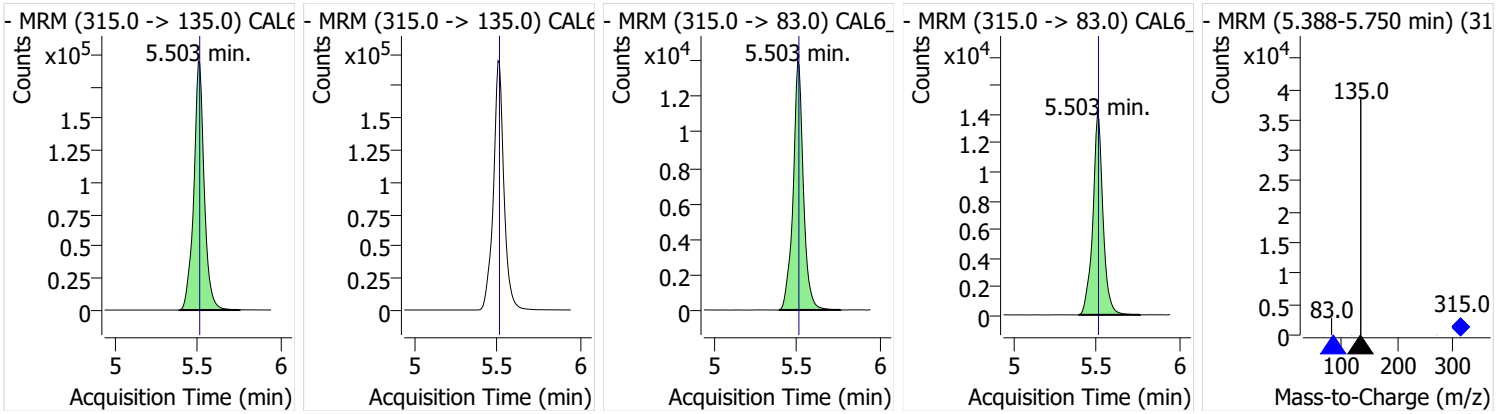
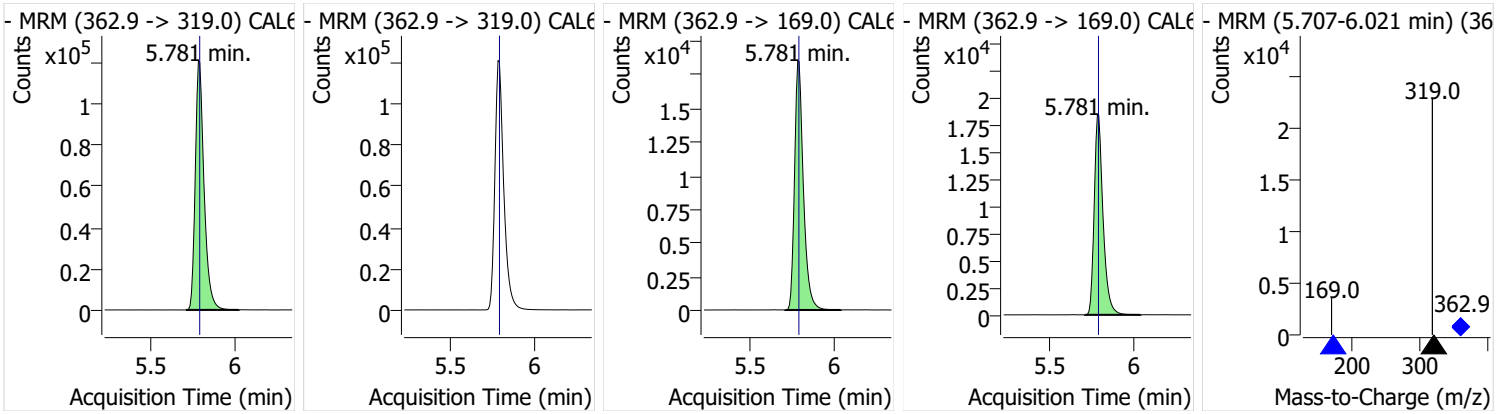


PFHpA



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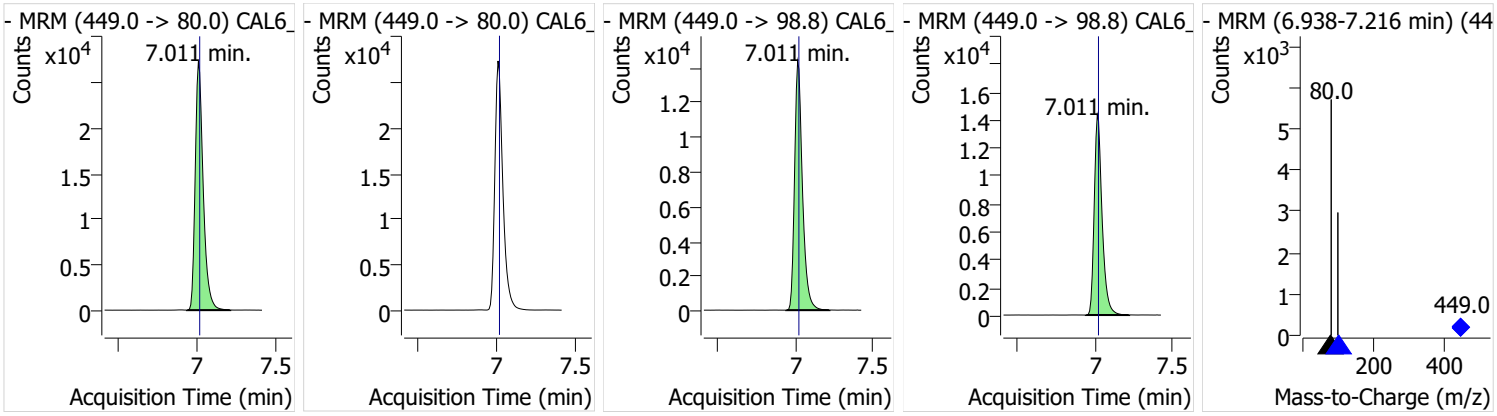

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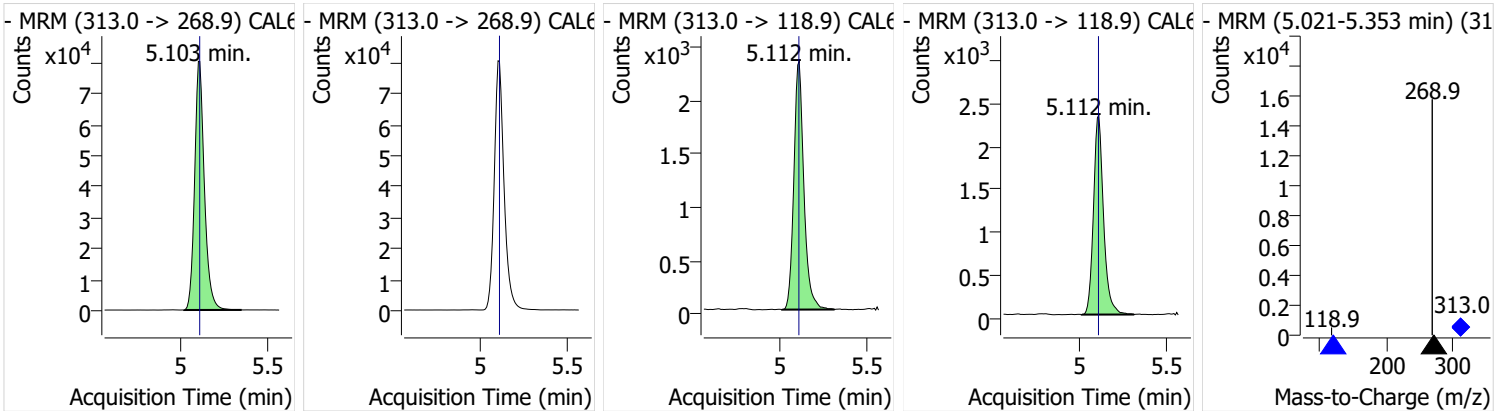

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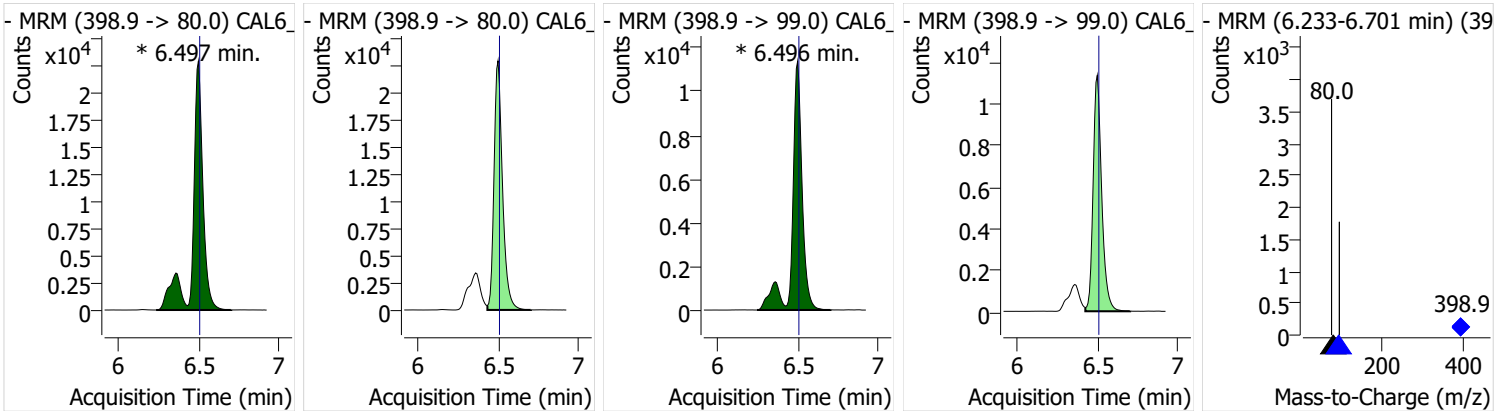

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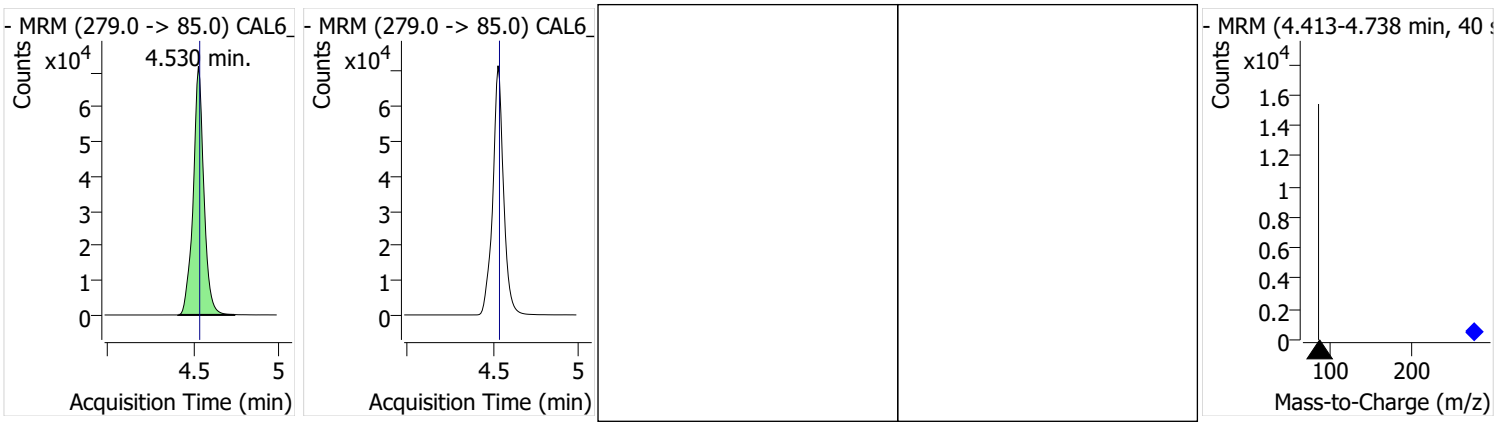

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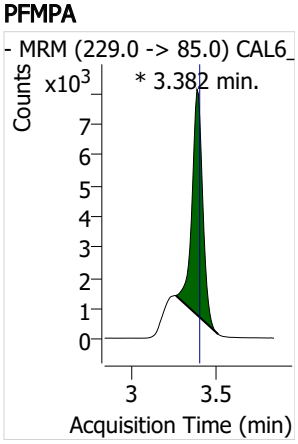

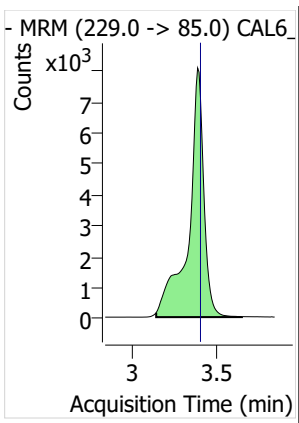

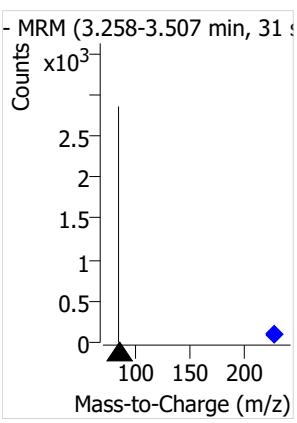

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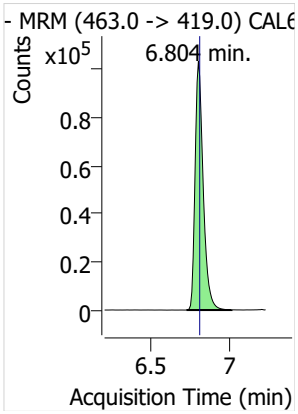

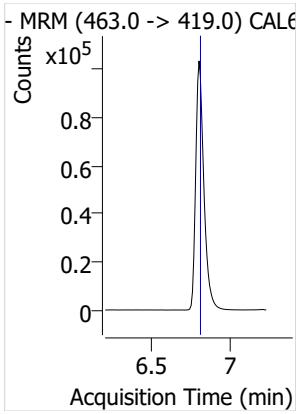

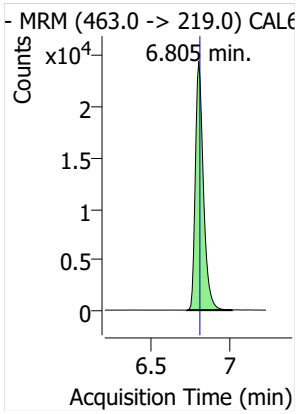

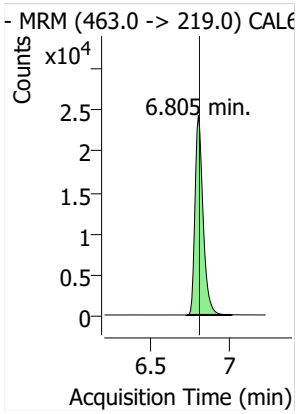

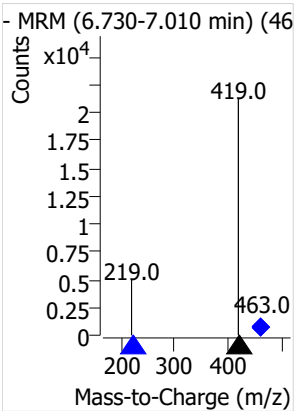

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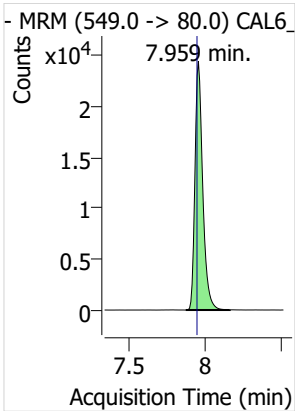

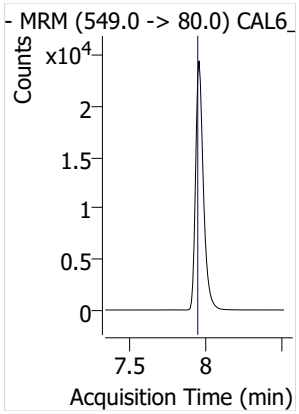

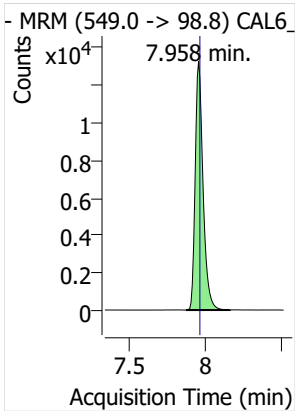

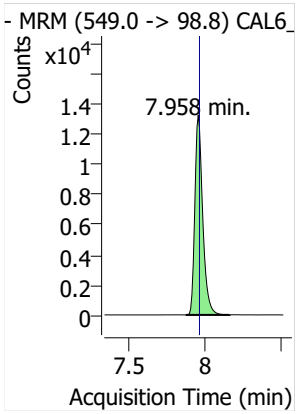

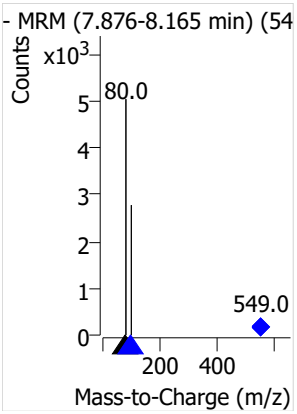

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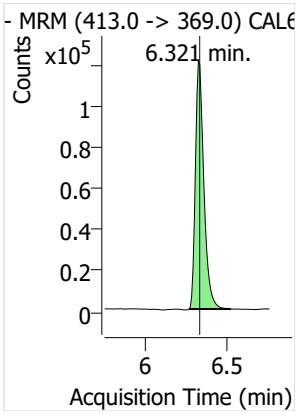

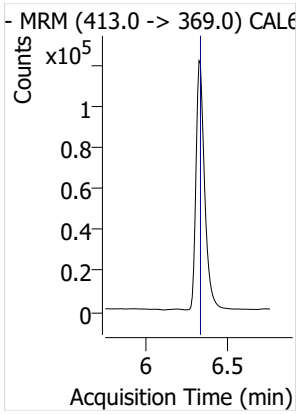

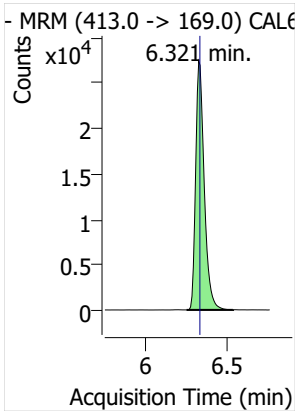

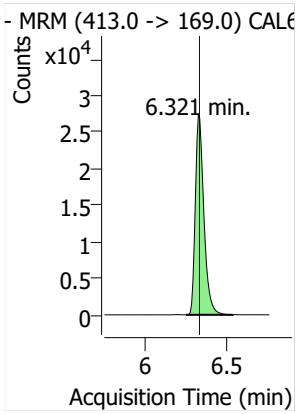

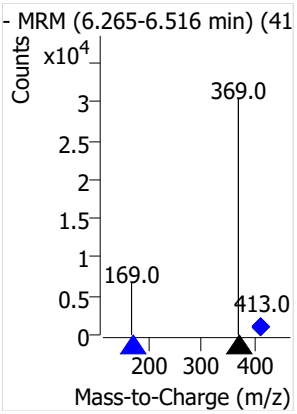

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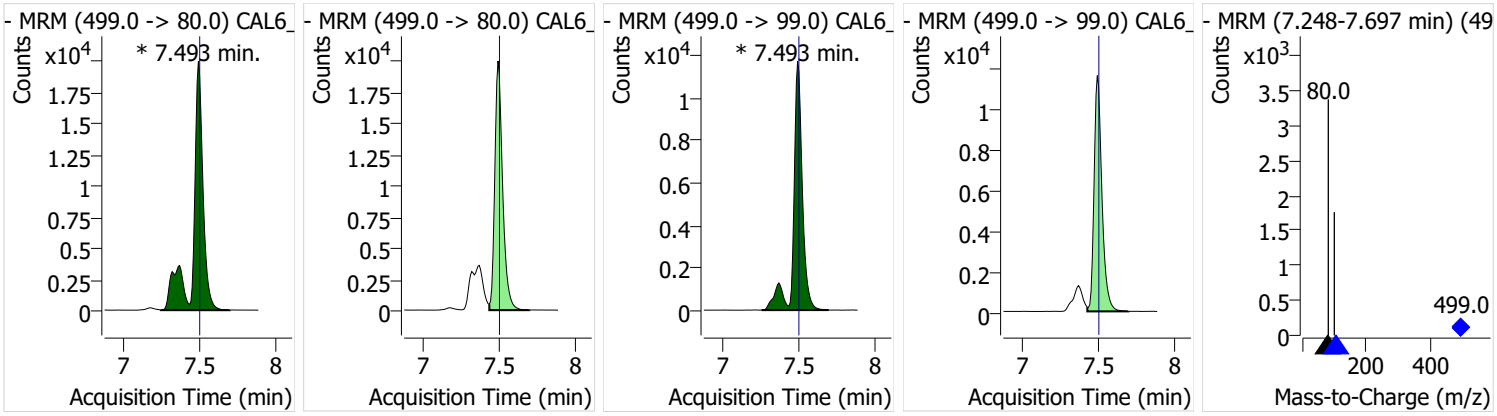

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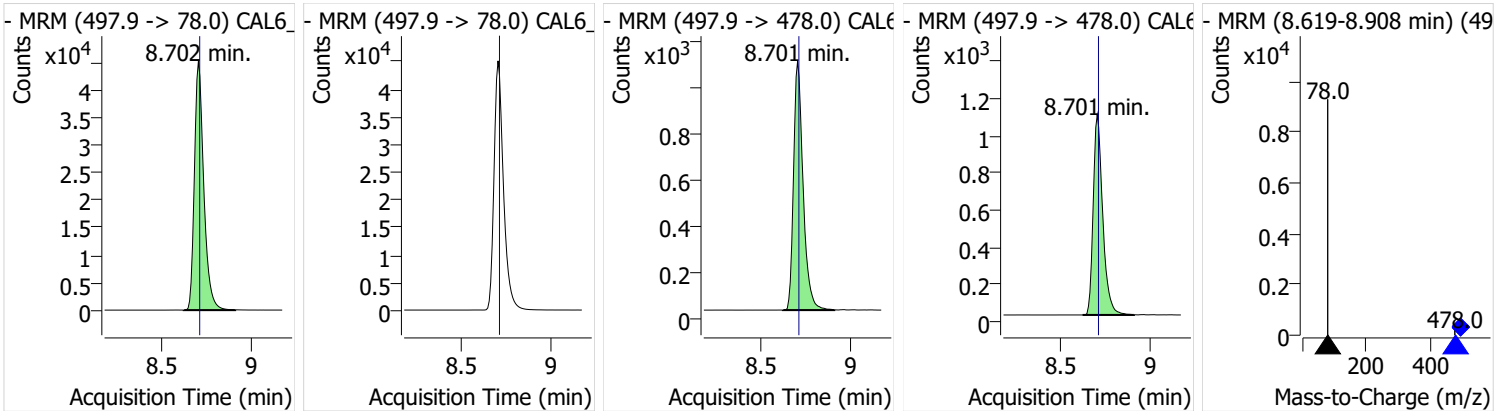

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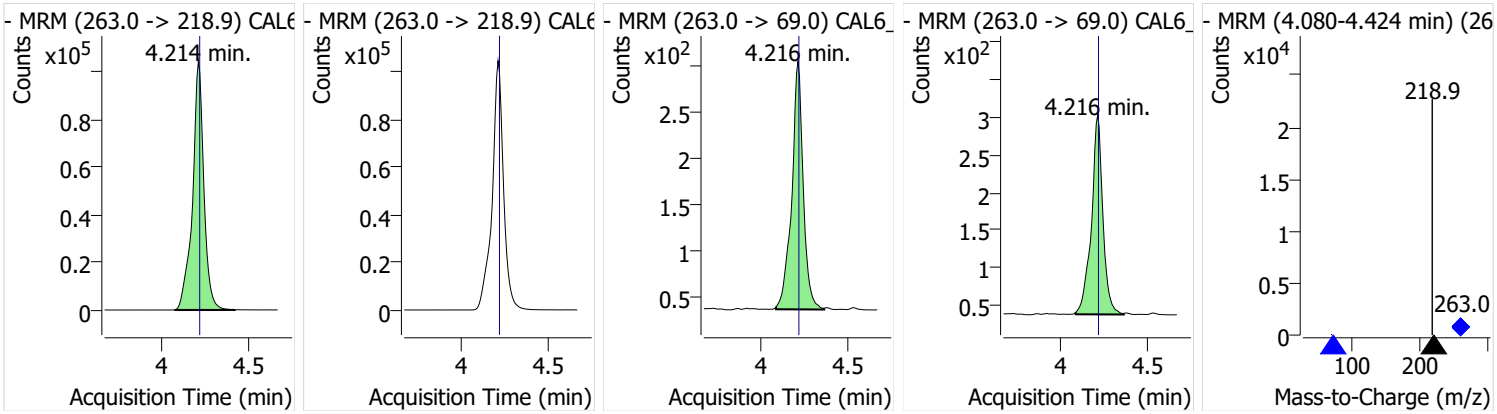

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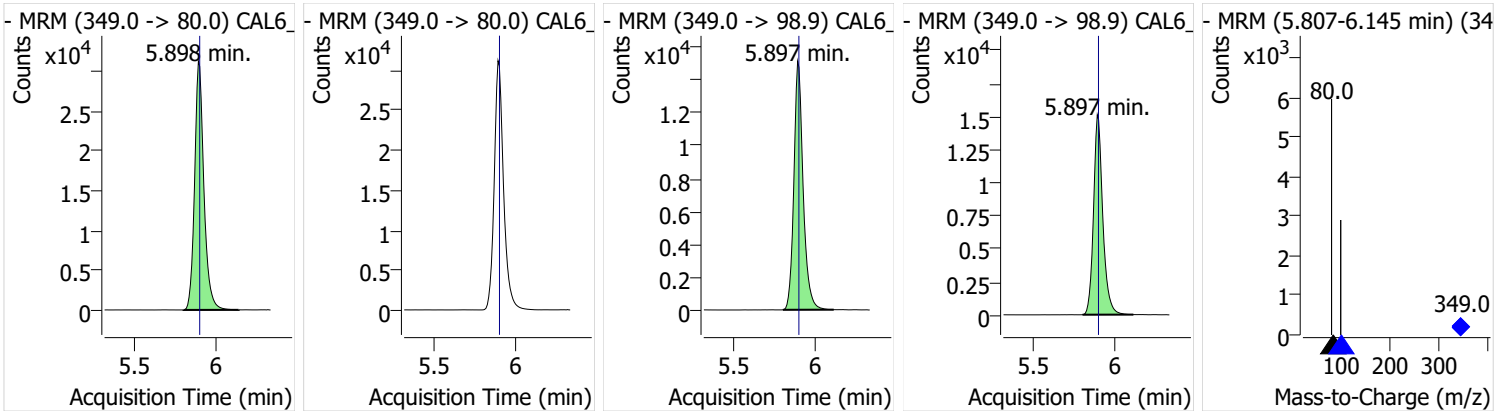

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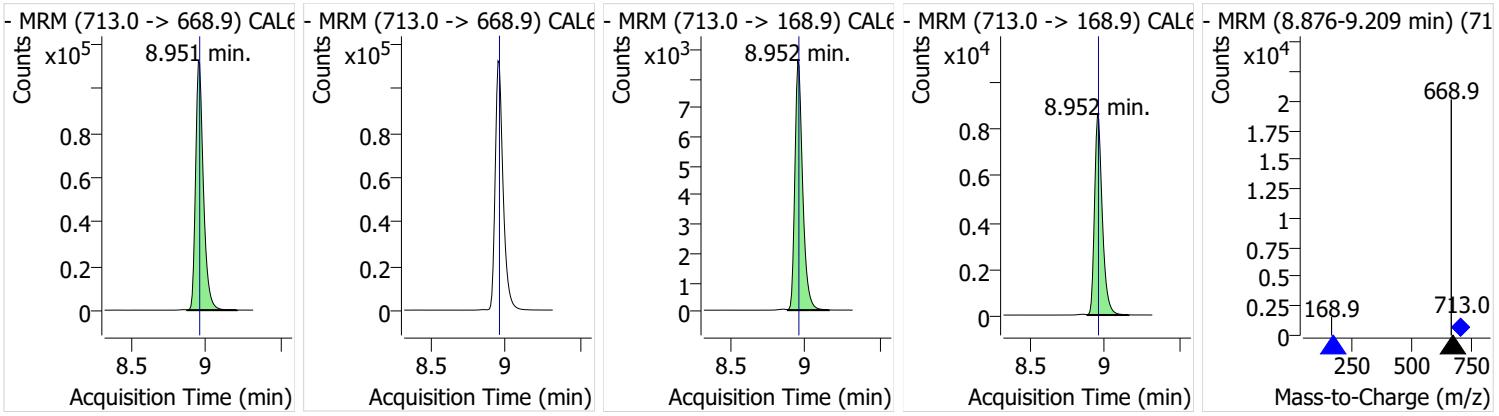

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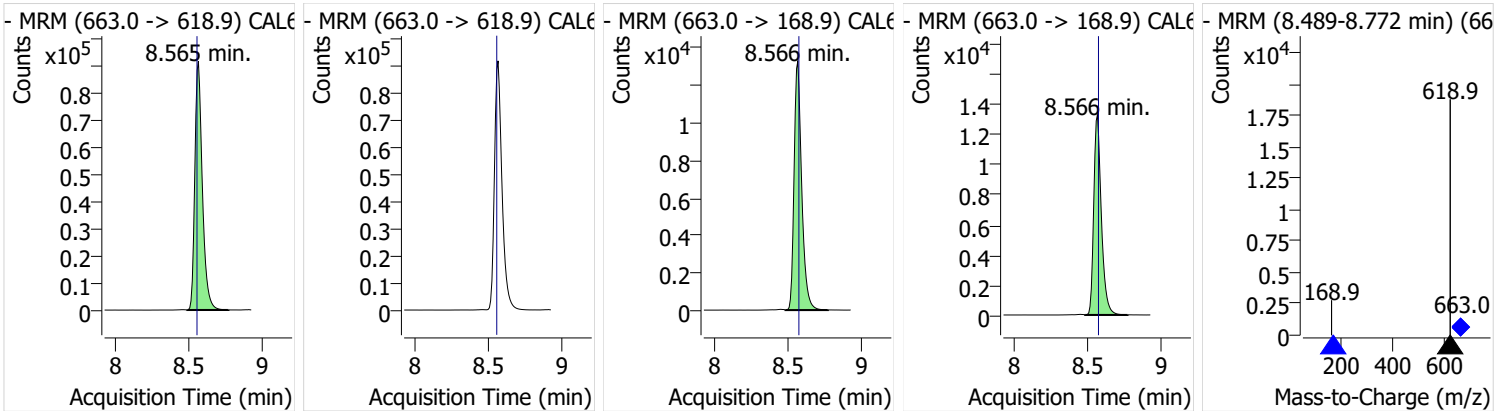

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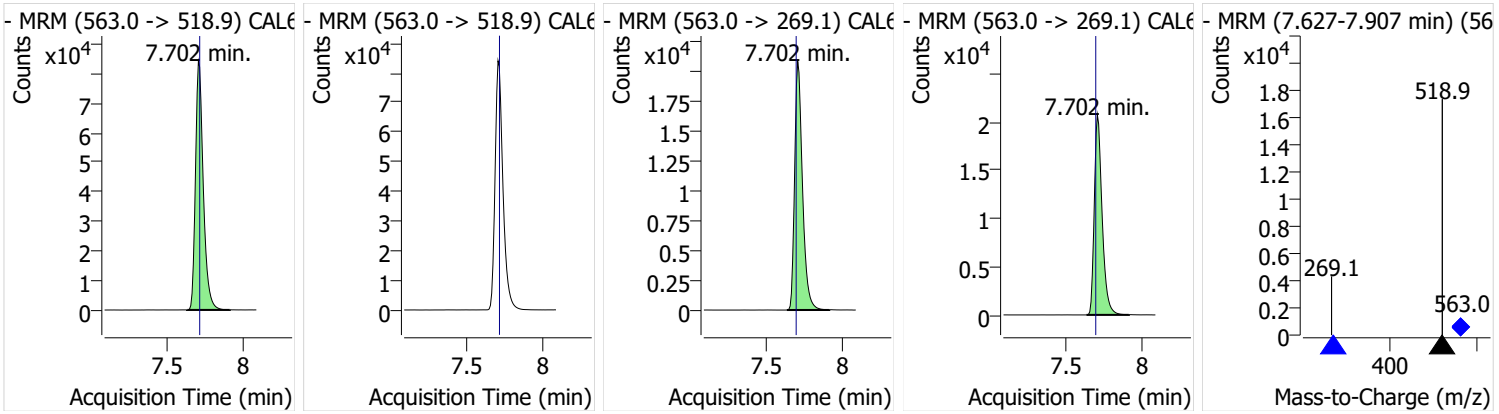

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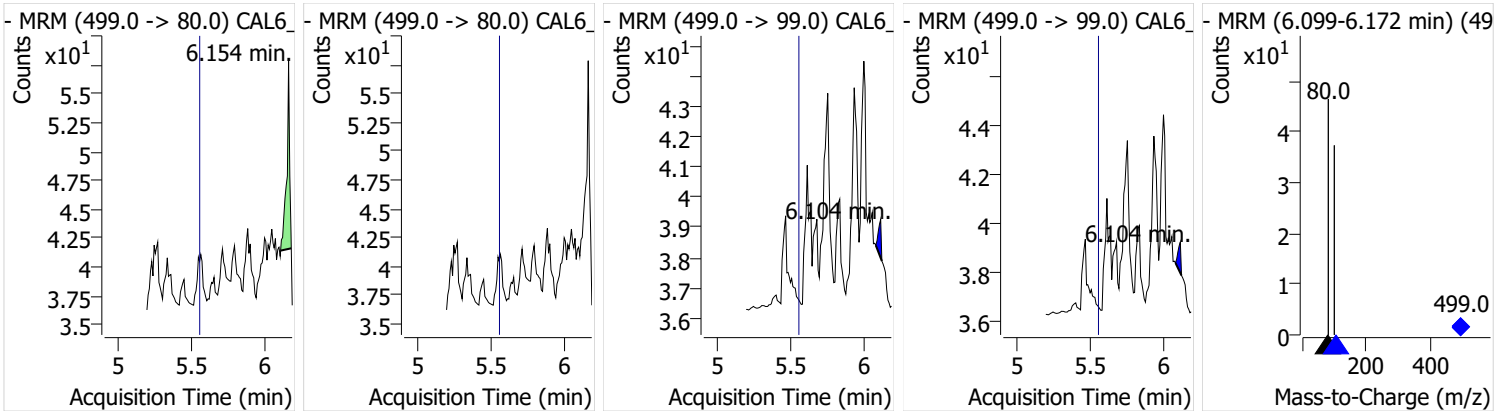

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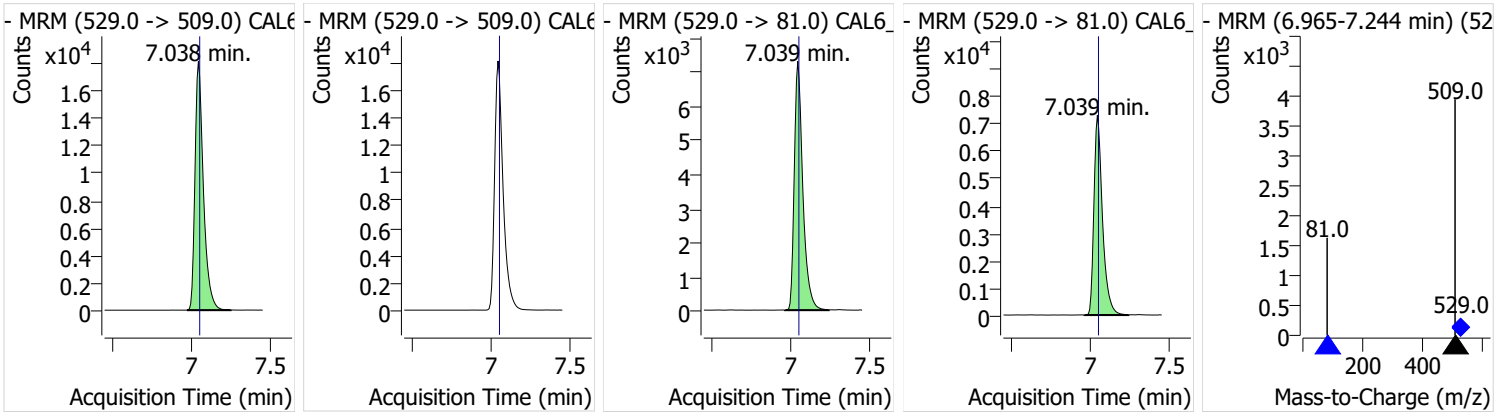

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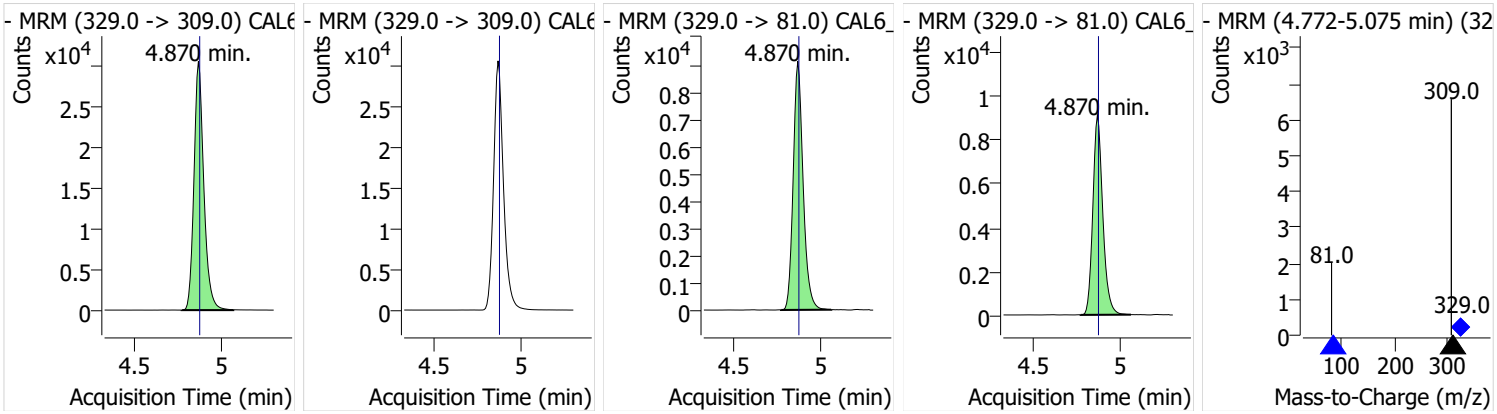

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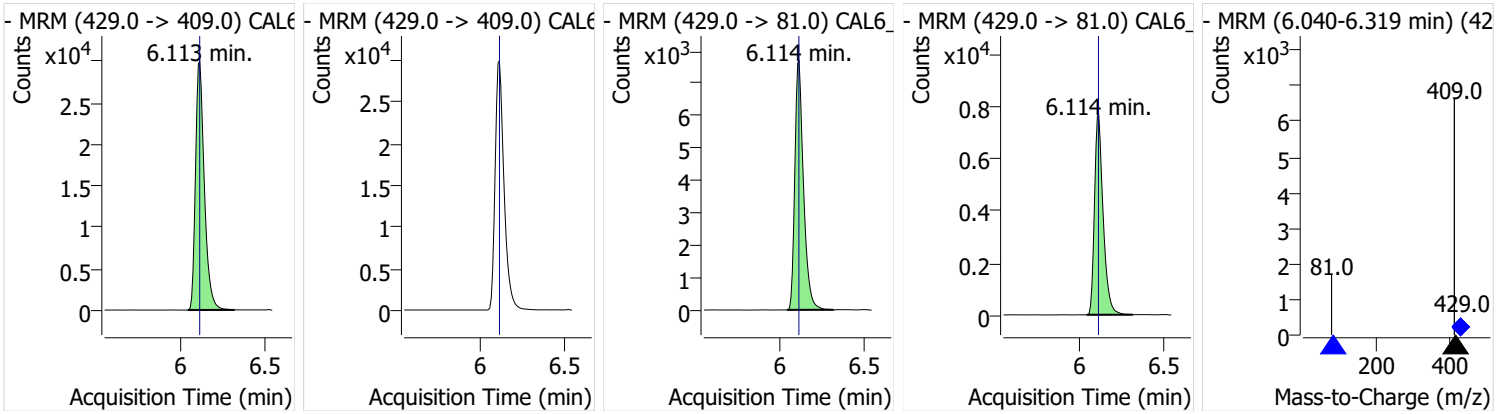

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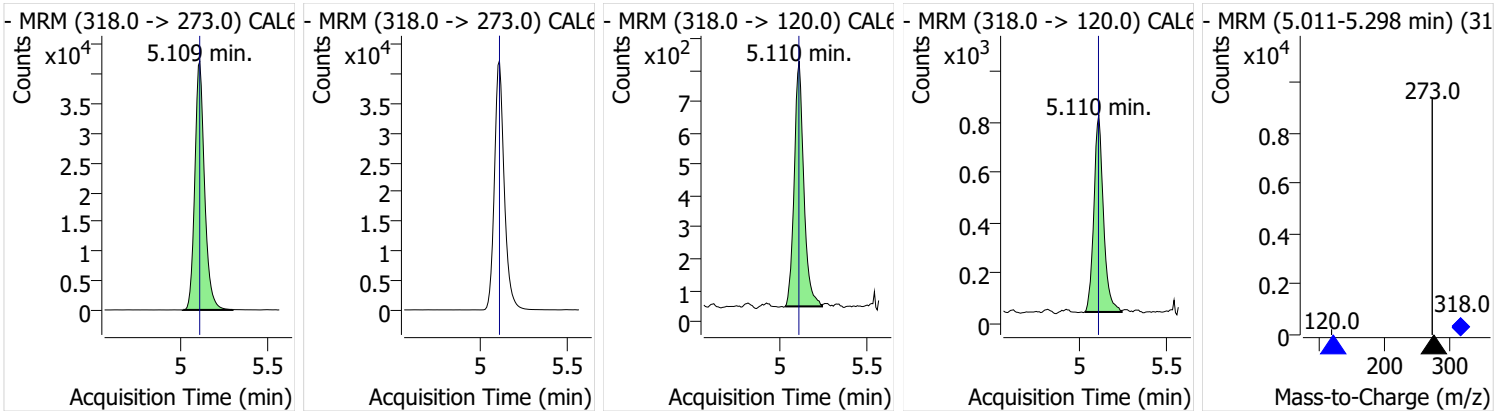

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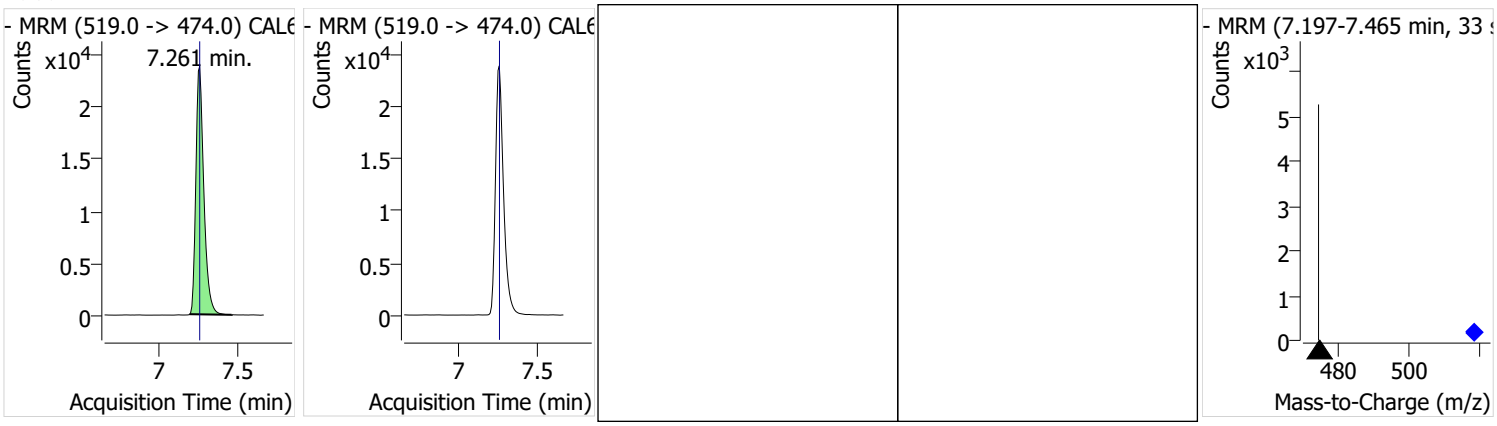

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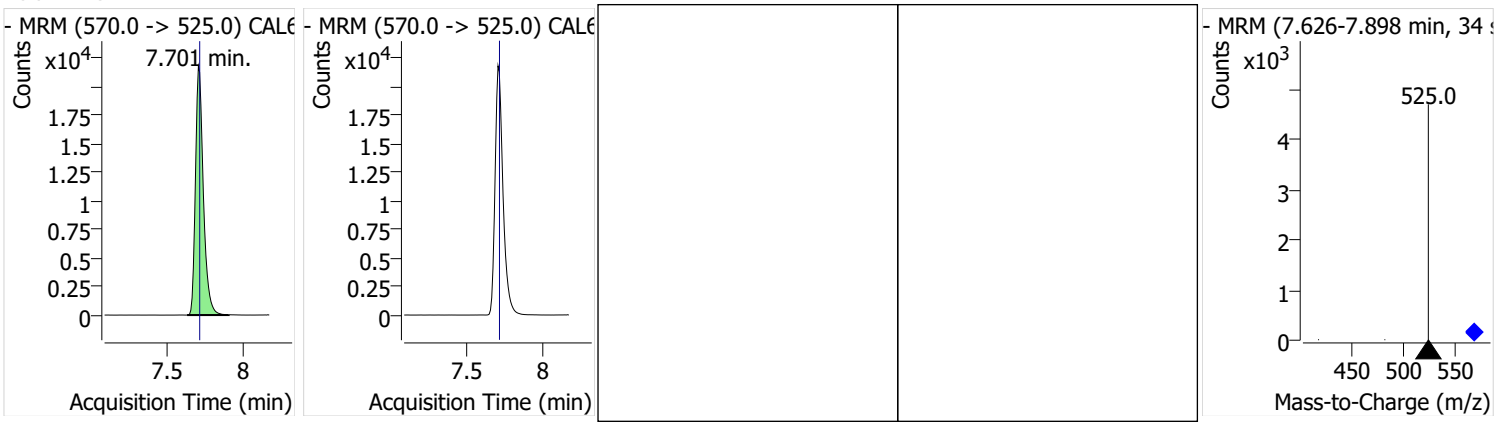

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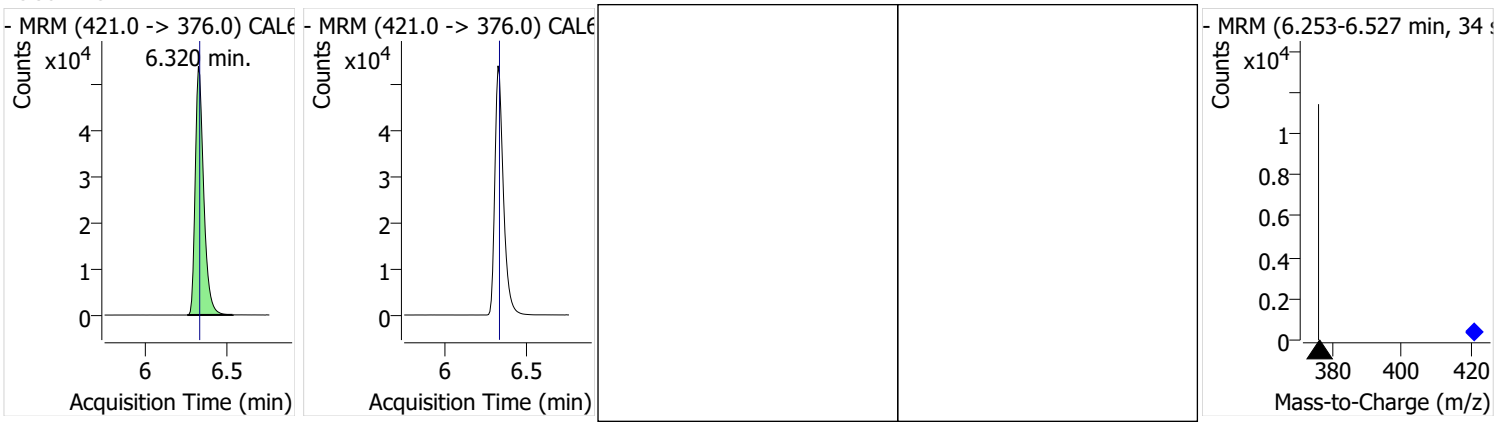

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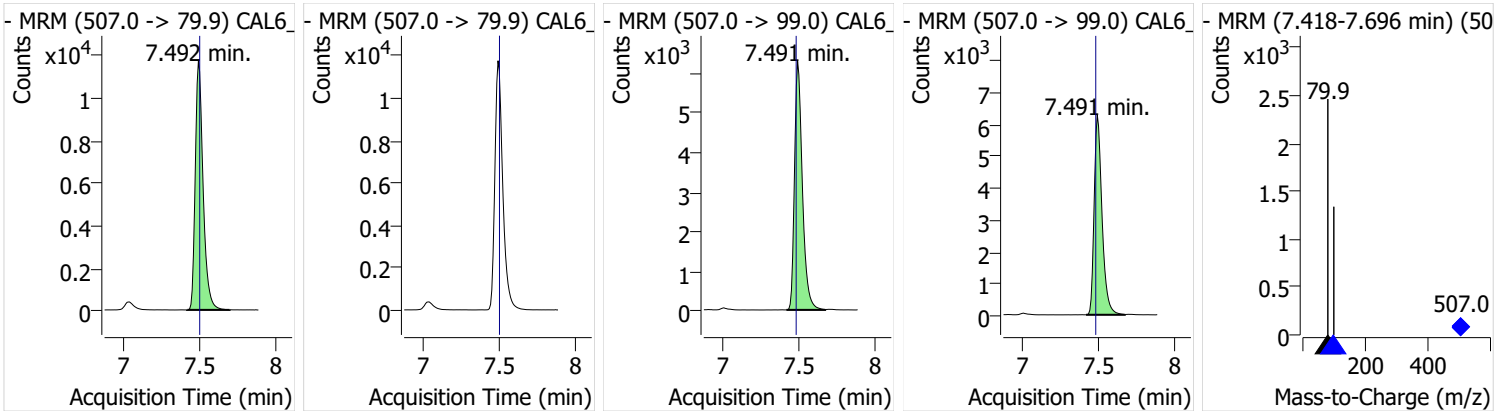

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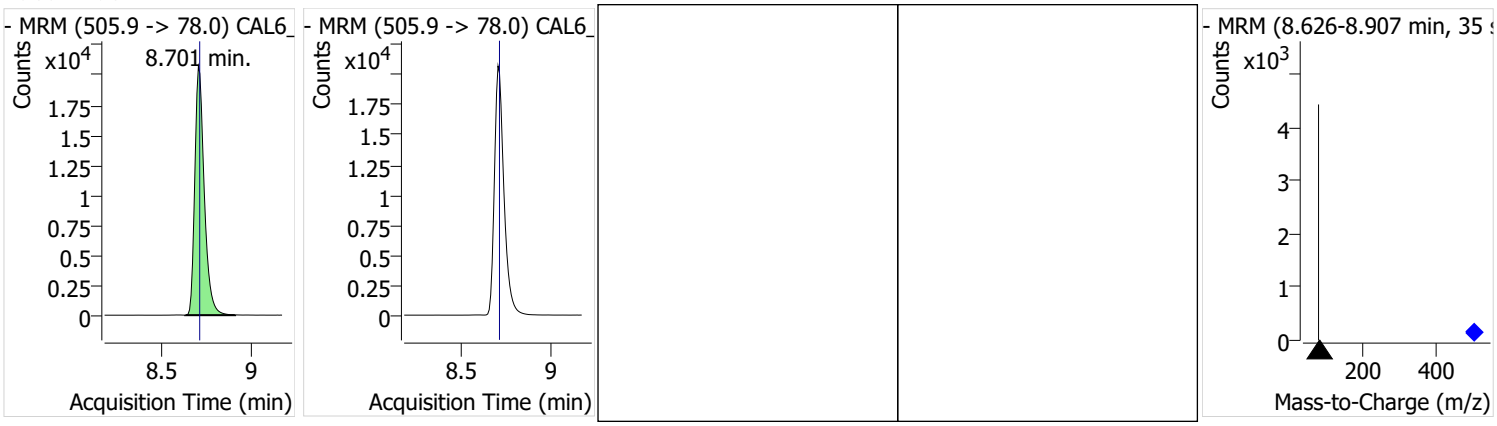

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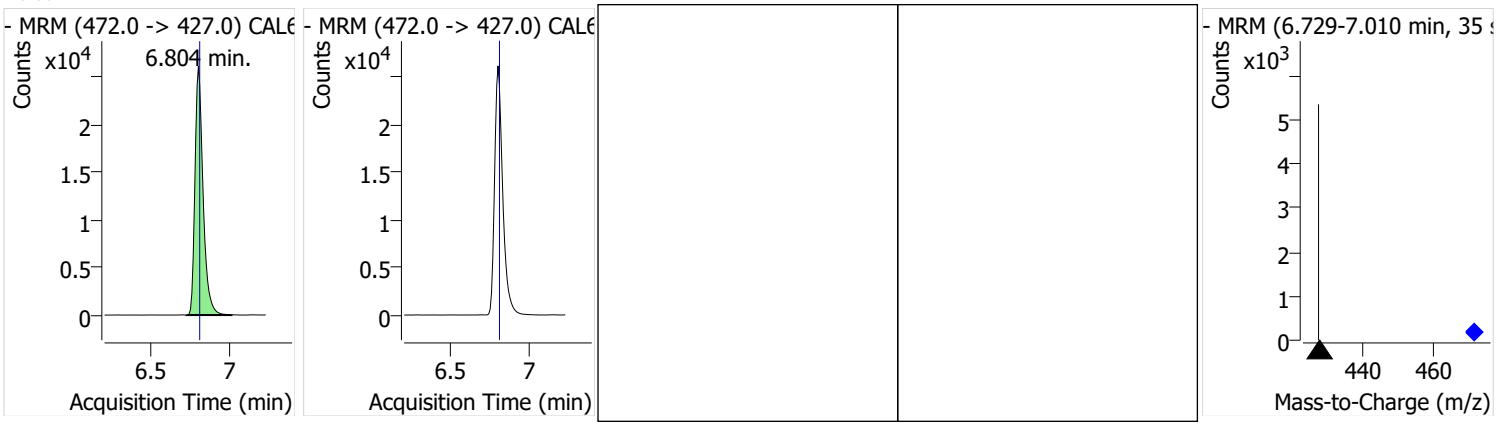

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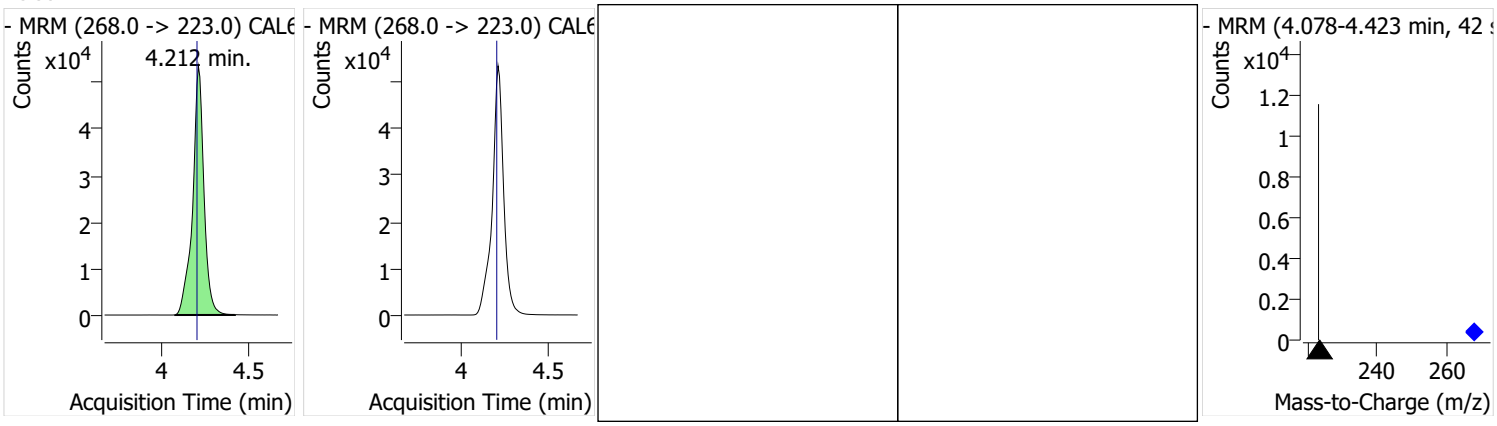

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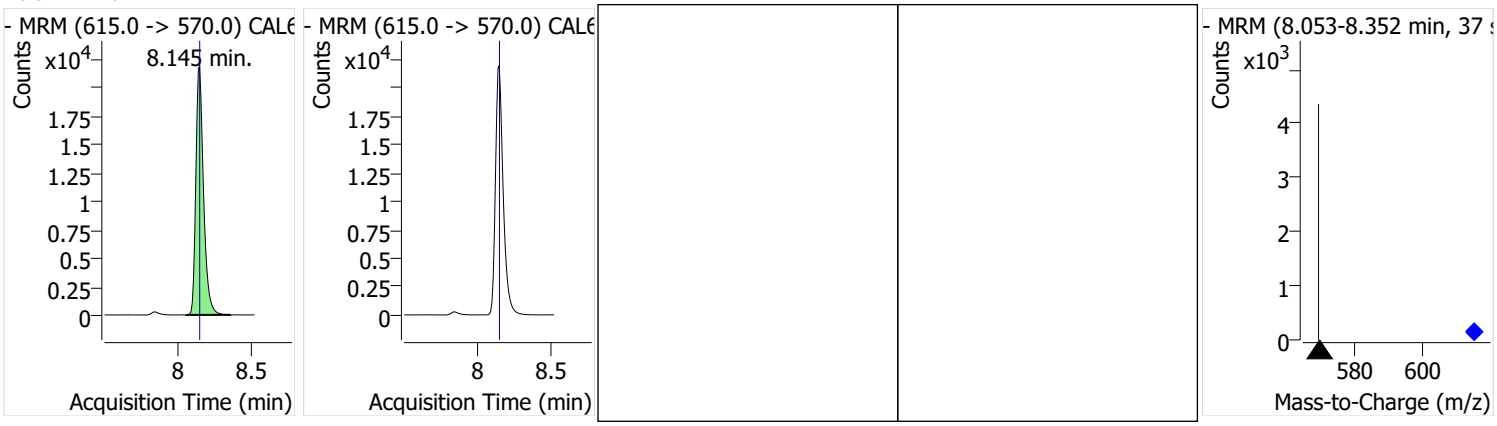

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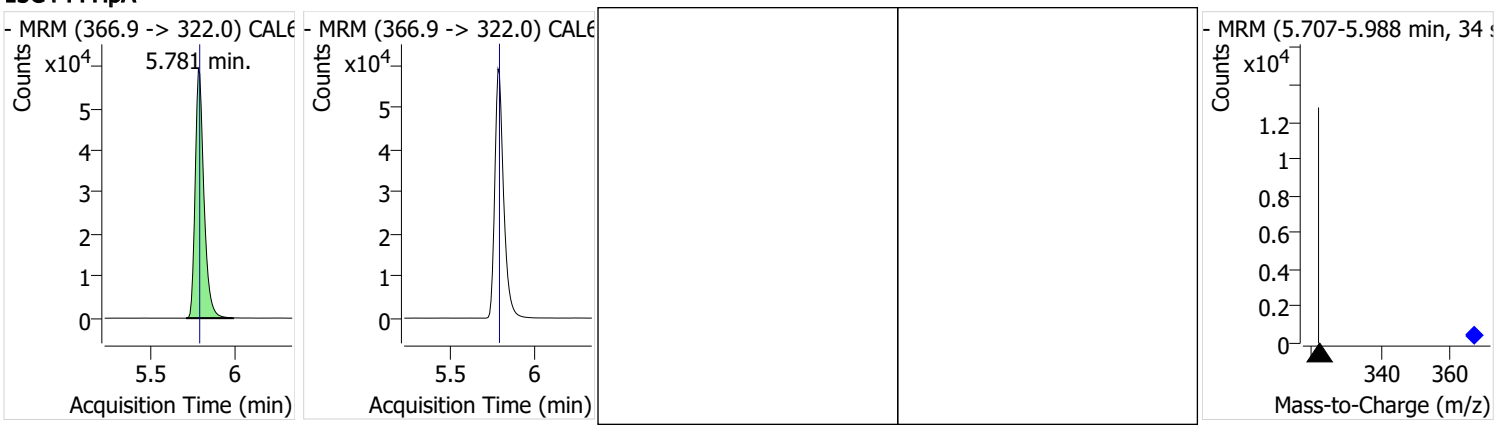

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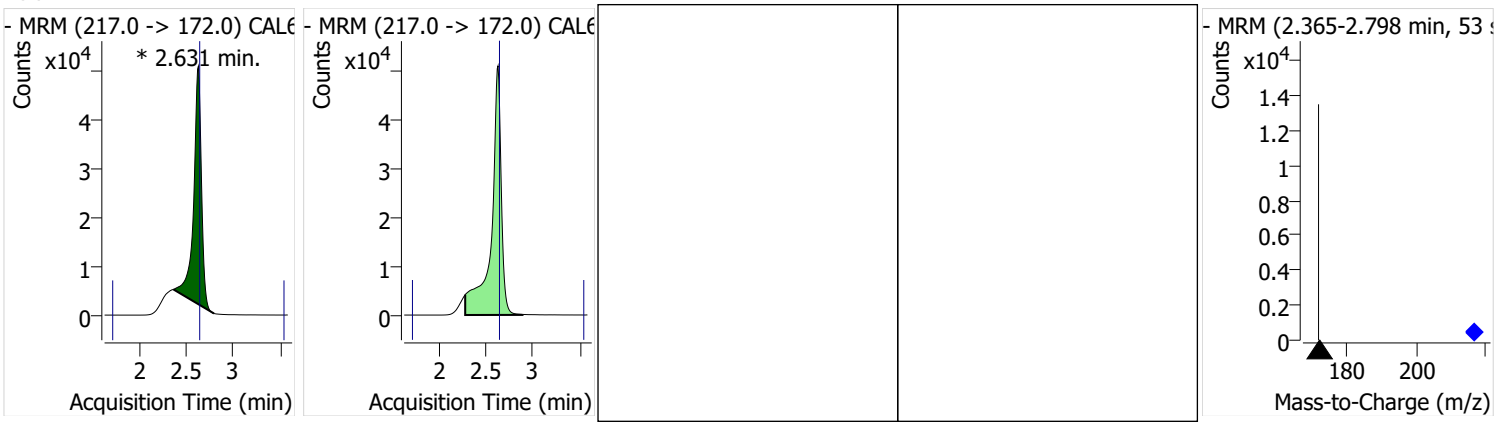

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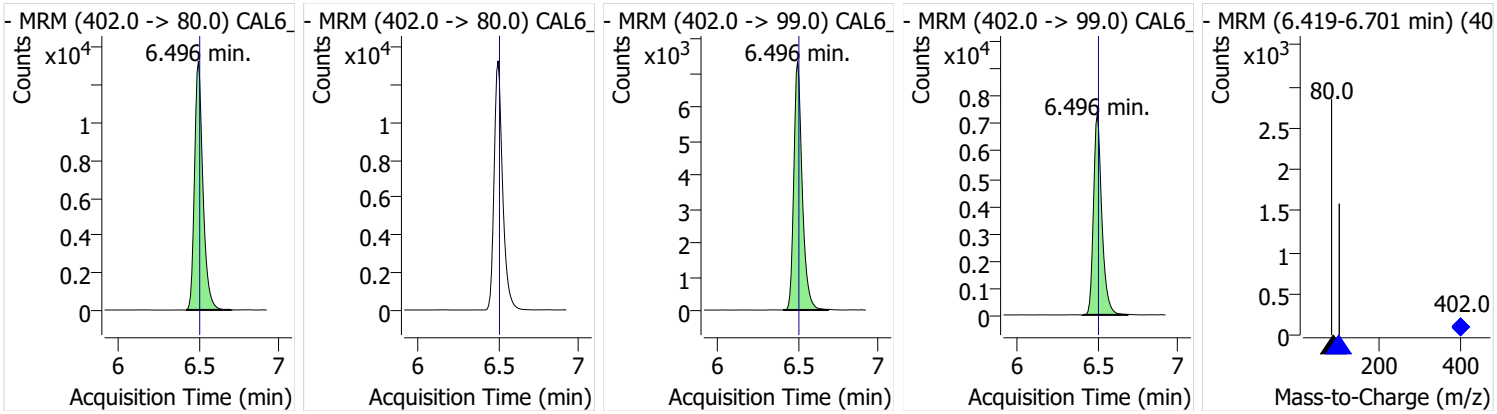

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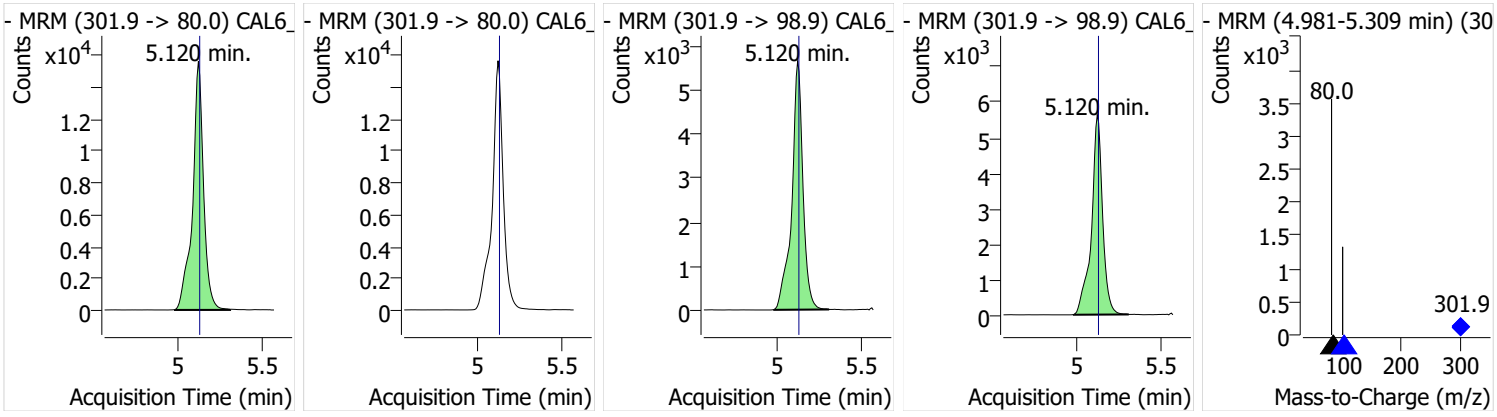

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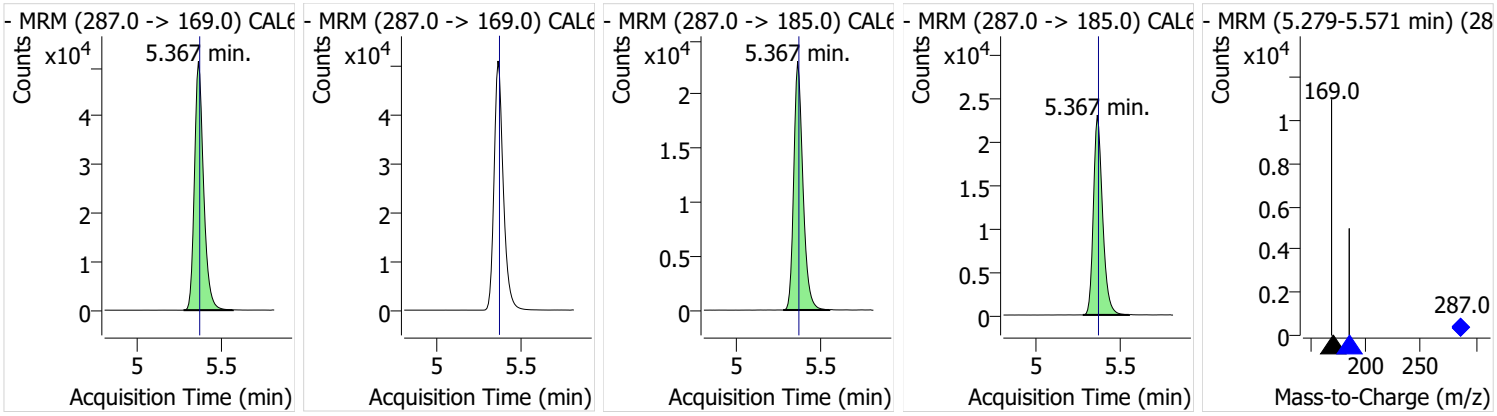

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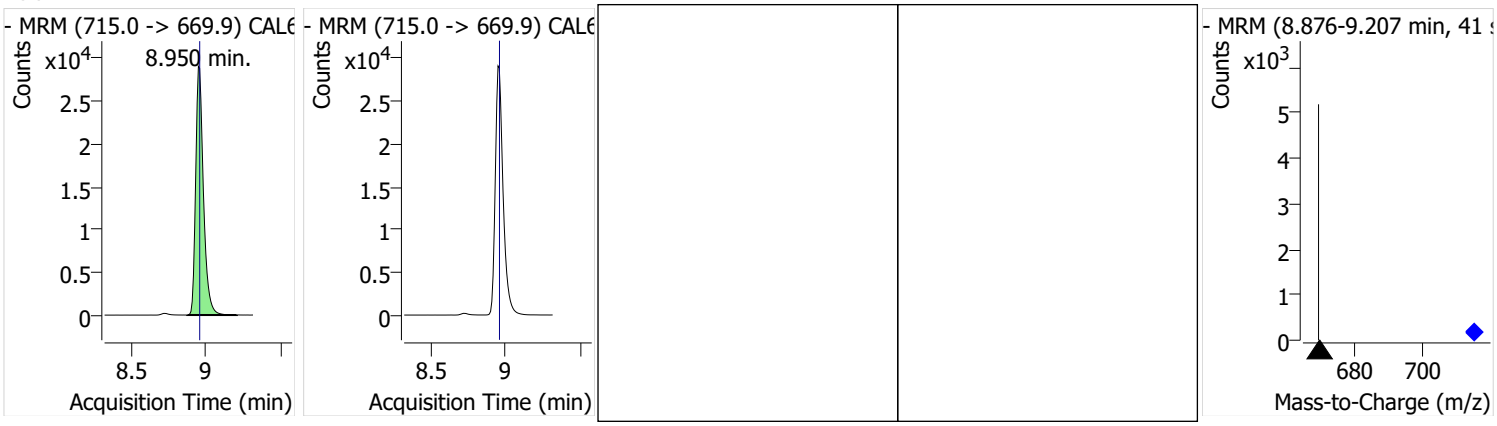

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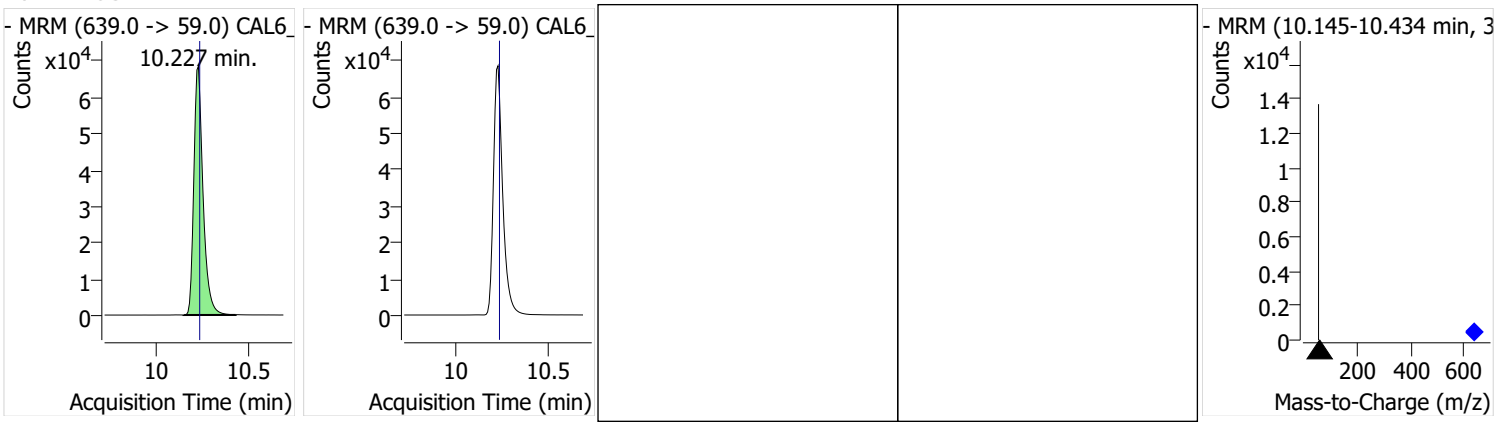

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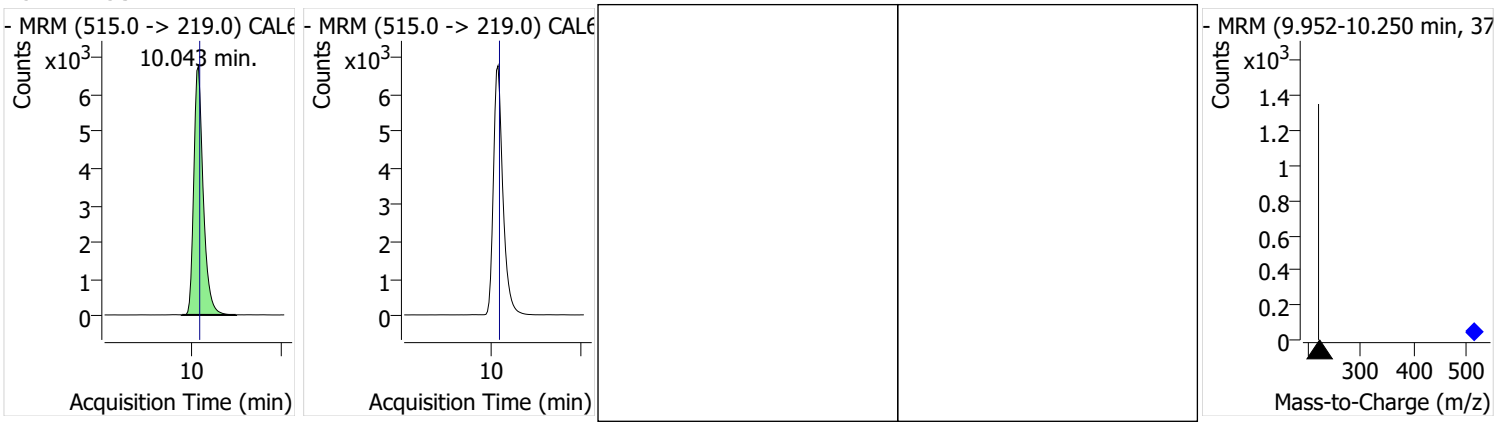

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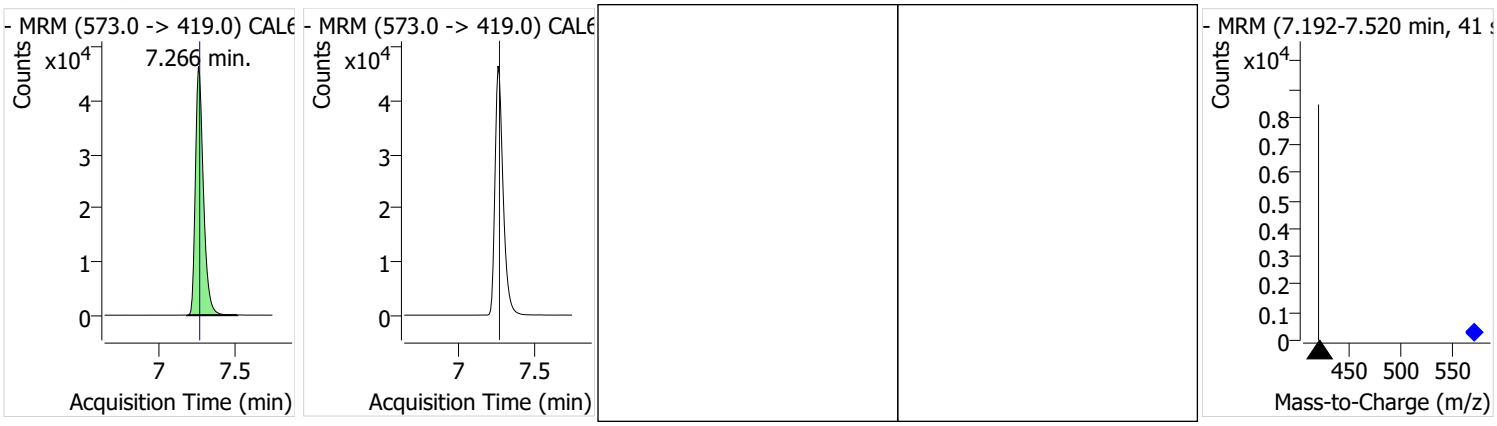

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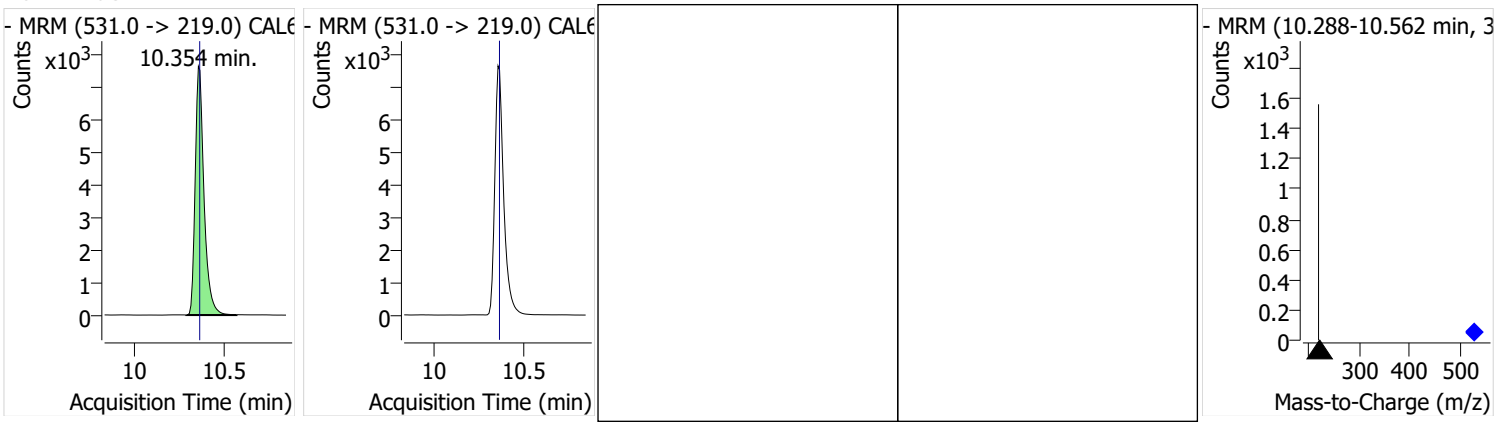

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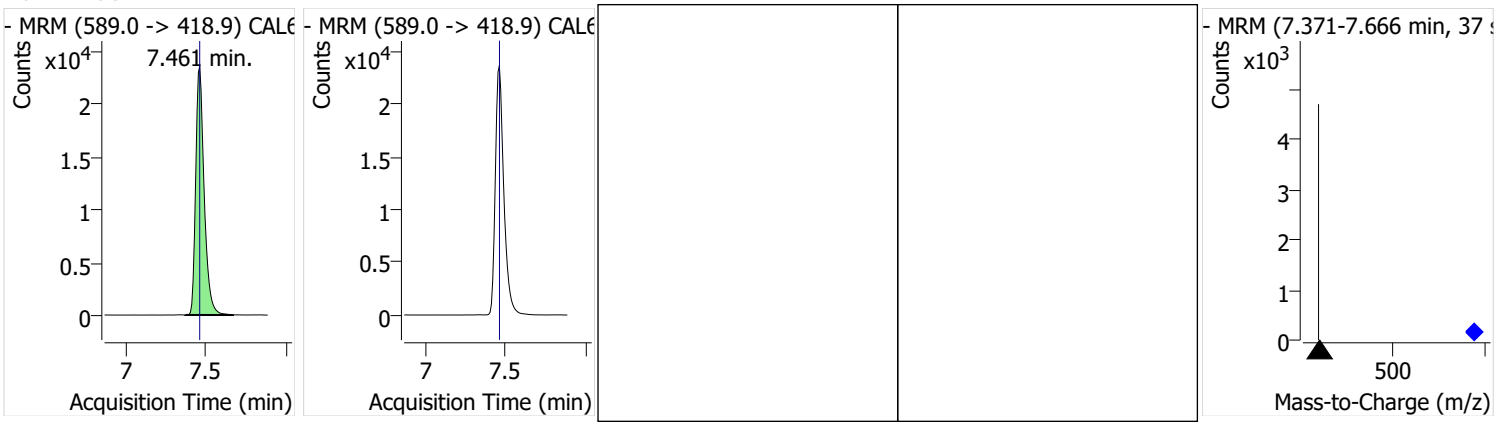

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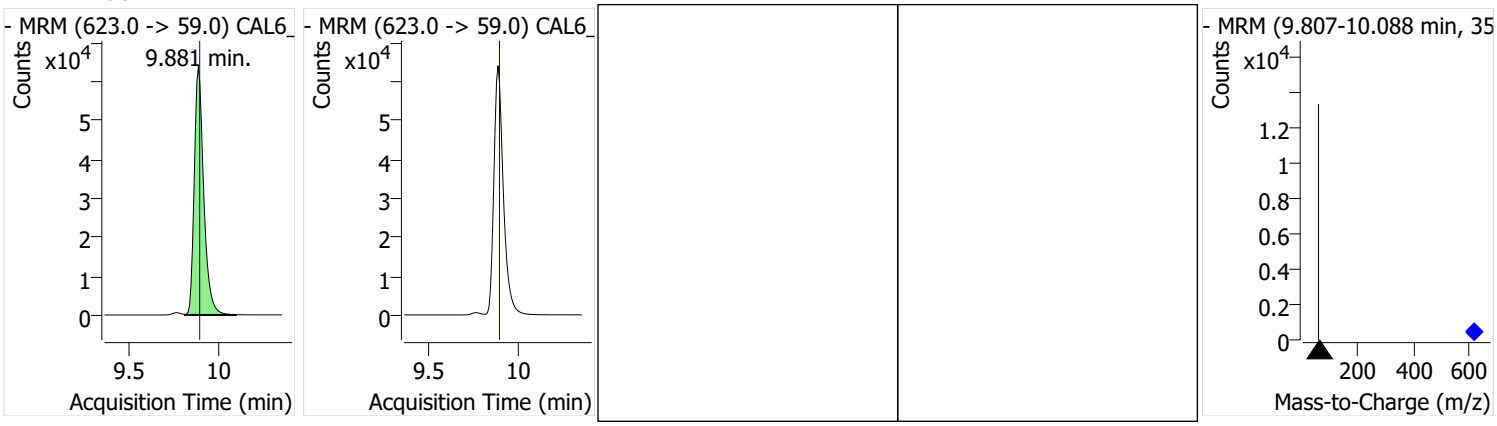

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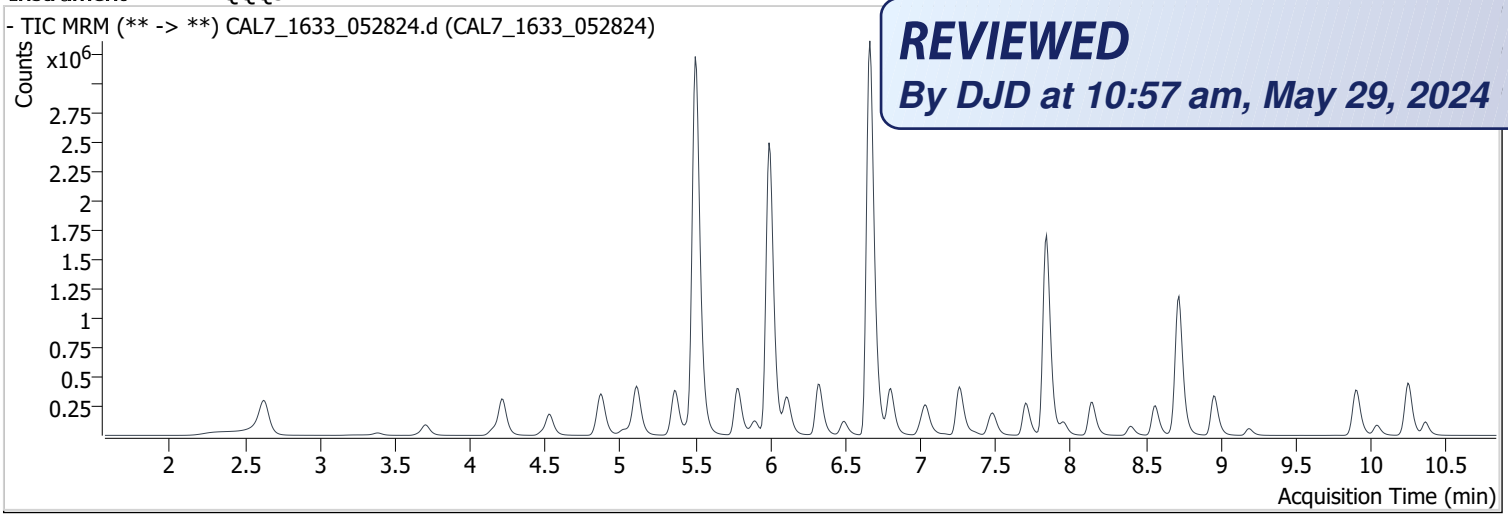
Dilution	1	**Acq. Method**	1633_ACQUISITION.m
Sample Comment	E#24E0160	**Processing method**	1633_050624.m
Instrument	QQQ5		



REVIEWED
By DJD at 10:57 am, May 29, 2024

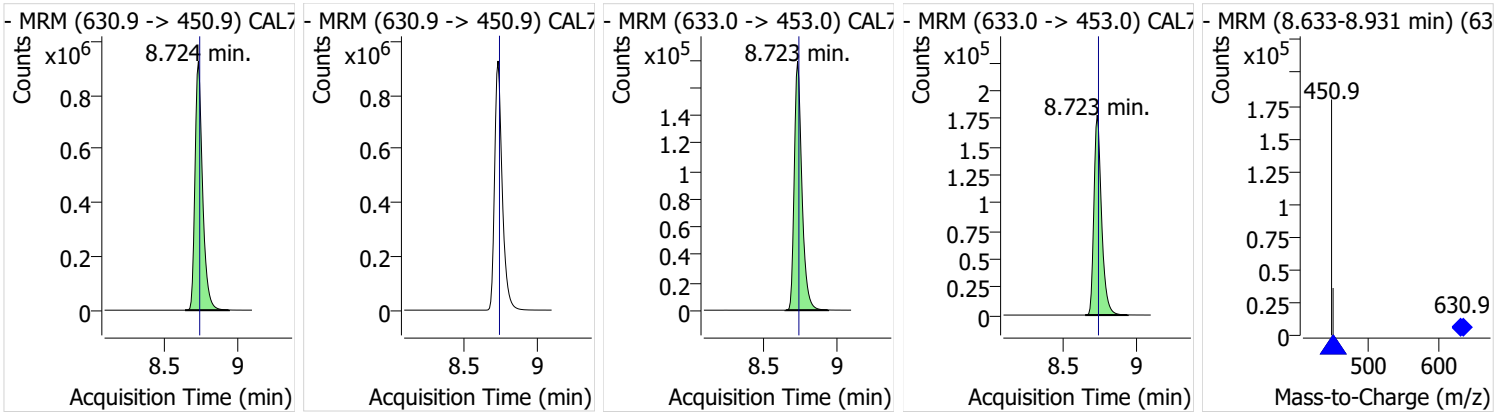
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
11Cl-PF3OUdS	8.724	3299454	557546.05		13C3-HFPODA - ISTD	5.367	193918	44.9946	ng/ml			
633.0 -> 453.0			149517.13	19.5								
3:3FTCA	3.707	271901	85704.37		13C5-PFPeA - ISTD	4.212	242939	127.3489	ng/ml			
241.0 -> 117.0			16052.36	50.6								
4:2FTS	4.871	965535	323300.25		13C2-4:2FTS - ISTD	4.870	32889	46.6548	ng/ml			
327.0 -> 80.9			56989.04	34.6								
5:3FTCA	5.501	5302385	581290.77		13C5-PFHxA - ISTD	5.109	166158	621.4083	ng/ml			
341.0 -> 217.0			517029.81	89.5								
6:2FTS	6.114	701751	259174.12		13C2-6:2FTS - ISTD	6.114	26172	47.1630	ng/ml			
427.0 -> 80.9			48880.02	36.6								
7:3FTCA	6.666	6493998	9544.12		13C5-PFHxA - ISTD	5.109	166158	607.7052	ng/ml			
441.0 -> 317.0			5342.05	92.7								
8:2FTS	7.039	424850	82459.17		13C2-8:2FTS - ISTD	7.039	25020	47.2939	ng/ml			
527.0 -> 81.0			60190.59	58.6								
9Cl-PF3ONS	7.843	4903639	276346.59		13C3-HFPODA - ISTD	5.367	193918	44.5491	ng/ml			
533.0 -> 353.0			18409.10	26.2								
ADONA	5.995	6560406	645052.87		13C3-HFPODA - ISTD	5.367	193918	45.0383	ng/ml			
377.0 -> 85.1			334107.15	38.2								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA	5.368	823088	107693.75		13C3-HFPODA - ISTD	5.367	193918	49.7156	ng/ml			
285.0 -> 184.9			21132.34	46.8								
NEtFOSA	10.364	166351	192526.21		D5-NEtFOSA - ISTD	10.354	25215	12.4636	ng/ml			
526.0 -> 219.0			120572.97	97.4								
NEtFOSAA	7.461	220659	13813.67		D5-NEtFOSAA - ISTD	7.461	85452	12.2130	ng/ml	✔	3	AMS 05/29/24
584.0 -> 526.0			1934.07	64.7								
NEtFOSE	10.245	1423078	491643.52		D9-NEtFOSE - ISTD	10.227	247037	125.4392	ng/ml			
NFDHA	5.023	112250	72960.89		13C5-PFHxA - ISTD	5.109	166158	24.1149	ng/ml			
295.0 -> 85.0			10167.02	30.7								
NMeFOSA	10.044	143867	152390.45		D3-NMeFOSA - ISTD	10.043	24678	12.4208	ng/ml			
512.0 -> 219.0			79179.74	91.9								
NMeFOSAA	7.275	152412	14291.69		D3-NMeFOSAA - ISTD	7.266	165268	12.6444	ng/ml	✔	3	AMS 05/29/24
570.0 -> 418.9			14202.34	61.8								
NMeFOSE	9.907	1274201	512323.65		D7-NMeFOSE - ISTD	9.881	228536	124.4642	ng/ml			
PFBA	2.628	1311339	43718.58		13C4-PFBA - ISTD	2.631	282922	51.1846	ng/ml	✔	3	AMS 05/29/24
PFBS	5.121	369667	57370.48		13C3-PFBS - ISTD	5.120	70338	11.1262	ng/ml			
298.9 -> 98.8			24611.40	40.4								
PFDA	7.262	818138	23025.10		13C6-PFDA - ISTD	7.261	82404	12.6745	ng/ml			
513.0 -> 219.0			310295.38	21.5								
PFDoA	8.145	809709	25970.51		13C2-PFDoA - ISTD	8.136	78921	12.7771	ng/ml			
613.0 -> 319.0			12847.28	17.5								
PFDoS	9.189	123394	59011.94		13C8-PFOS - ISTD	7.492	41225	12.2657	ng/ml			
698.9 -> 99.0			51136.78	66.7								
PFDS	8.403	173800	53117.03		13C8-PFOS - ISTD	7.492	41225	12.0520	ng/ml			
599.0 -> 98.8			34047.70	59.4								
PFEESA	5.503	2122267	187236.35		13C5-PFHxA - ISTD	5.109	166158	21.7800	ng/ml			
315.0 -> 83.0			16679.73	7.1								
PFHpA	5.781	1086134	19756.28		13C4-PFHpA - ISTD	5.781	214346	12.2382	ng/ml			
362.9 -> 169.0			19544.77	15.6								
PFHpS	7.011	237735	29122.77		13C8-PFOS - ISTD	7.492	41225	12.0008	ng/ml			
449.0 -> 98.8			55351.13	52.9								

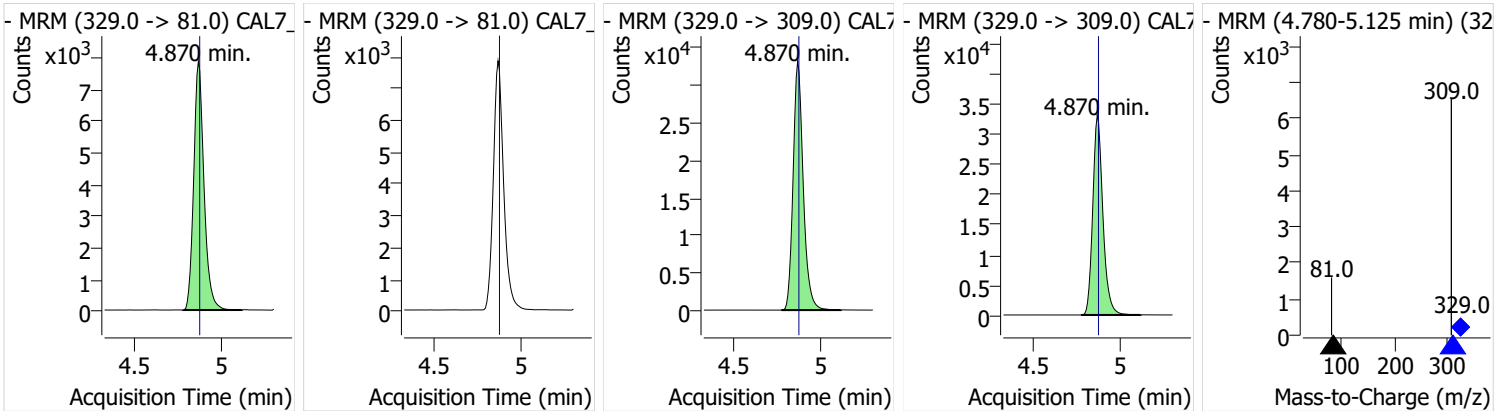
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFHxA	5.111	802343	25510.71		13C5-PFHxA - ISTD	5.109	166158	12.3230	ng/ml			
313.0 -> 118.9			3743.82	3.0								
PFHxS	6.497	254006	2051.73		13C3-PFHxS - ISTD	6.496	48302	11.0257	ng/ml	✔	3	AMS 05/29/24
398.9 -> 99.0			3794.86	48.2								
PFMBA	4.530	790688	710698.48		13C5-PFPeA - ISTD	4.212	242939	24.7201	ng/ml			
PFMPA	3.382	81227	7510.97		13C5-PFPeA - ISTD	4.212	242939	23.9886	ng/ml	✔	3	AMS 05/29/24
PFNA	6.804	914097	33195.49		13C9-PFNA - ISTD	6.804	93779	12.3728	ng/ml			
463.0 -> 219.0			44252.93	23.4								
PFNS	7.959	216027	41327.23		13C8-PFOS - ISTD	7.492	41225	12.1669	ng/ml			
549.0 -> 98.8			32030.47	56.0								
PFOA	6.321	1066845	4602.37		13C8-PFOA - ISTD	6.320	193565	12.0029	ng/ml			
413.0 -> 169.0			50867.79	23.4								
PFOS	7.493	228657	2597.96		13C8-PFOS - ISTD	7.492	41225	11.4401	ng/ml	✔	3	AMS 05/29/24
499.0 -> 99.0			24295.26	50.9								
PFOSA	8.702	406492	1399552.14		13C8-PFOSA - ISTD	8.701	75753	12.4567	ng/ml			
497.9 -> 478.0			136120.89	2.5								
PFPeA	4.214	1192371	55634.74		13C5-PFPeA - ISTD	4.212	242939	24.9104	ng/ml			
263.0 -> 69.0			2626.10	0.3								
PFPeS	5.898	311358	43272.33		13C3-PFHxS - ISTD	6.496	48302	11.8992	ng/ml			
349.0 -> 98.9			34761.73	48.7								
PFTeDA	8.951	1028699	56688.10		13C2-PFTeDA - ISTD	8.958	105409	12.6044	ng/ml			
713.0 -> 168.9			85327.95	7.8								
PFTrDA	8.565	807274	38100.09		13C2-PFDoA - ISTD	8.136	78921	12.3034	ng/ml			
663.0 -> 168.9			96933.40	15.0								
PFUnA	7.702	731167	20481.85		13C7-PFUnA - ISTD	7.701	78197	12.0597	ng/ml			
563.0 -> 269.1			44009.37	25.1								
TDCA	5.654	9	5.73					-	ng/ml			
499.0 -> 99.0			1.50	20.0								
13C2-8:2FTS	7.038	77900	58992.73		18O2-PFHxS	6.495	43998	6.4832	ng/ml			
529.0 -> 81.0			6405.15	32.1								
13C2-4:2FTS	4.870	137371	30870.60		18O2-PFHxS	6.495	43998	6.1329	ng/ml			

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
329.0 -> 81.0			9250.10	23.9								
13C2-6:2FTS	6.113	123975	28810.50		18O2-PFHxS	6.495	43998	6.2271	ng/ml			
429.0 -> 81.0			5513.06	21.1								
13C5-PFHxA	5.109	166158	19159.55		13C2-PFHxA	5.110	148840	2.6348	ng/ml			
318.0 -> 120.0			162.39	1.6								
13C6-PFDA	7.261	82404	3895.96		13C2-PFDA	7.262	77941	1.3277	ng/ml			
13C7-PFUnA	7.701	78197	8708.38		13C2-PFDA	7.262	77941	1.3477	ng/ml			
13C8-PFOA	6.320	193565	30433.46		13C4-PFOA	6.320	21880	2.7037	ng/ml			
13C8-PFOS	7.492	41225	4808.89		13C4-PFOS	7.492	41840	2.6565	ng/ml			
507.0 -> 99.0			3412.05	54.9								
13C8-PFOSA	8.701	75753	787103.79		13C4-PFOS	7.492	41840	2.7014	ng/ml			
13C9-PFNA	6.804	93779	11811.86		13C5-PFNA	6.804	113330	1.3449	ng/ml			
13C5-PFPeA	4.212	242939	26443.09		13C2-PFHxA	5.110	148840	5.1951	ng/ml			
13C2-PFDoA	8.136	78921	12189.24		13C2-PFDA	7.262	77941	1.3178	ng/ml			
13C4-PFHpA	5.781	214346	19497.01		13C2-PFHxA	5.110	148840	2.6054	ng/ml			
13C4-PFBA	2.631	295806	85422.44		13C3-PFBA	2.625	122165	11.0841	ng/ml	✔	3	AMS 05/29/24
13C3-PFHxS	6.496	48302	14480.91		18O2-PFHxS	6.495	43998	2.6751	ng/ml			
402.0 -> 99.0			126705.50	52.1								
13C3-PFBS	5.120	70338	13394.65		18O2-PFHxS	6.495	43998	2.6920	ng/ml			
301.9 -> 98.9			14424.25	37.1								
13C3-HFPODA	5.367	193918	37289.45		13C2-PFHxA	5.110	148840	10.7219	ng/ml			
287.0 -> 185.0			11971.62	41.8								
13C2-PFTeDA	8.958	105409	20514.78		13C2-PFDA	7.262	77941	1.3053	ng/ml			
D9-NEtFOSE	10.227	247037	43870.95		13C4-PFOS	7.492	41840	27.2325	ng/ml			
D3-NMeFOSA	10.043	24678	17222.22		13C4-PFOS	7.492	41840	2.6940	ng/ml			
D3-NMeFOSAA	7.266	165268	19497.61		13C4-PFOS	7.492	41840	5.3151	ng/ml			
D5-NEtFOSA	10.354	25215	12658.15		13C4-PFOS	7.492	41840	2.7038	ng/ml			
D5-NEtFOSAA	7.461	85452	11680.61		13C4-PFOS	7.492	41840	5.4894	ng/ml			
D7-NMeFOSE	9.881	228536	169323.70		13C4-PFOS	7.492	41840	26.9584	ng/ml			

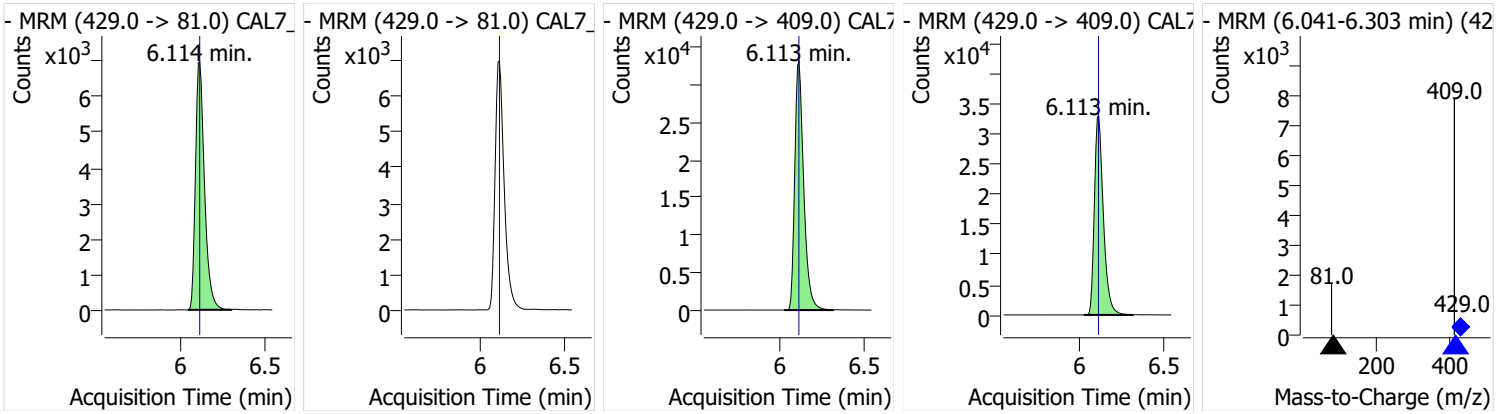
11Cl-PF3OUdS



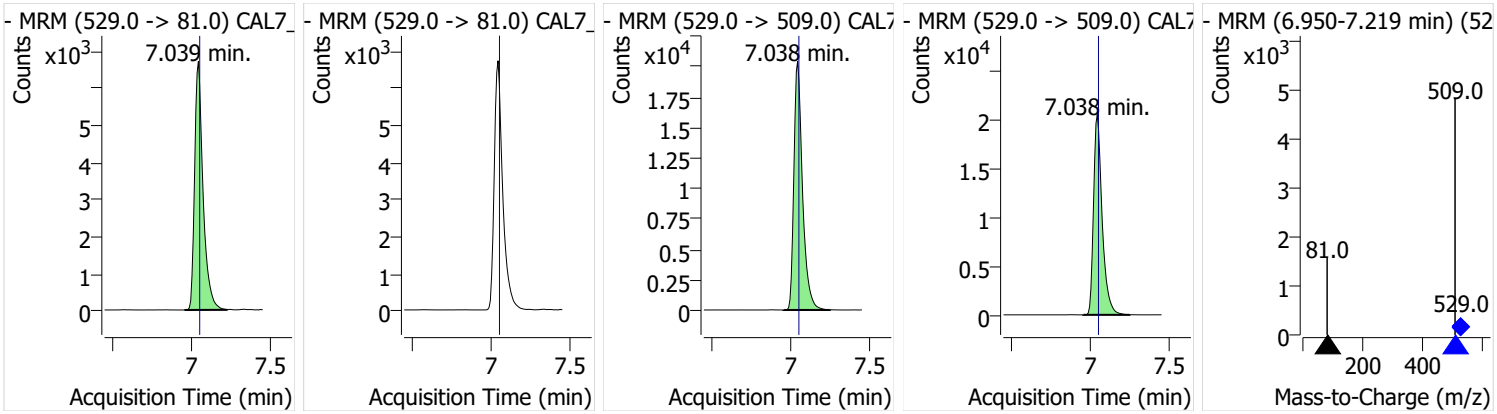
13C2-4:2FTS - ISTD



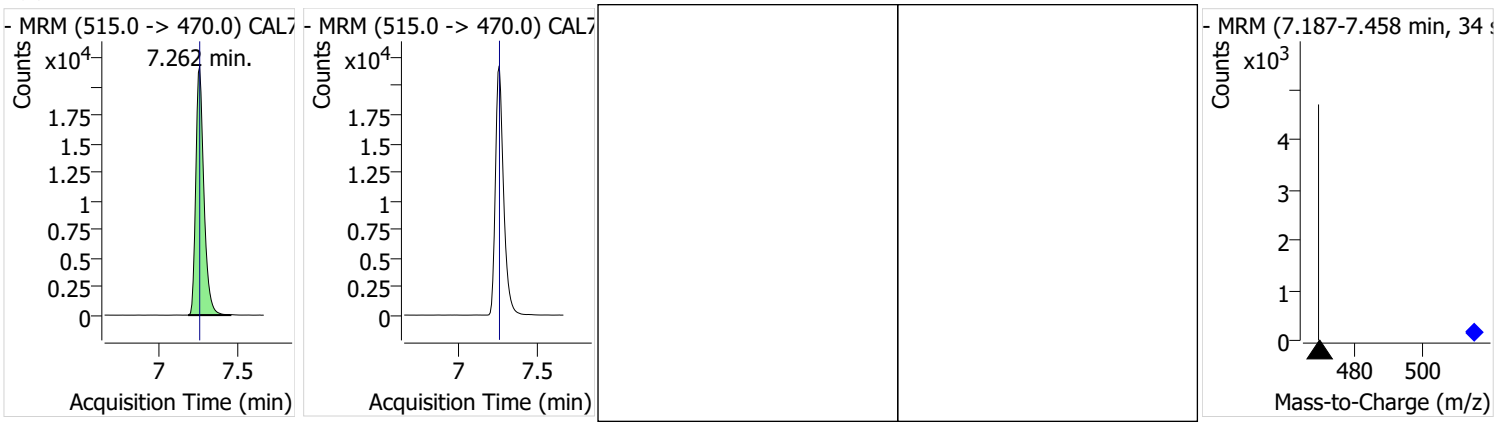
13C2-6:2FTS - ISTD



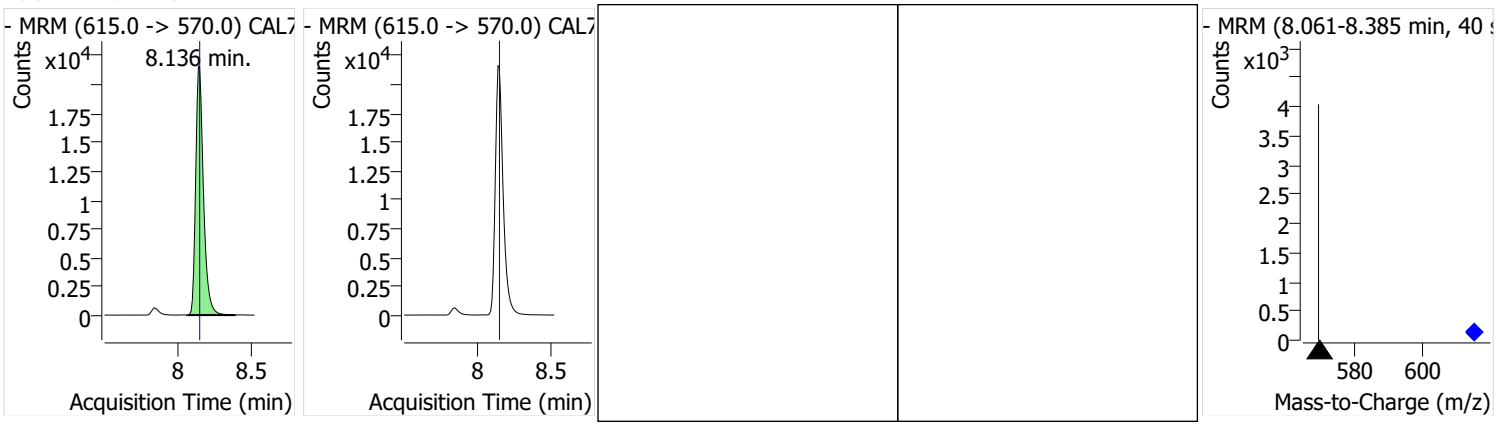
13C2-8:2FTS - ISTD



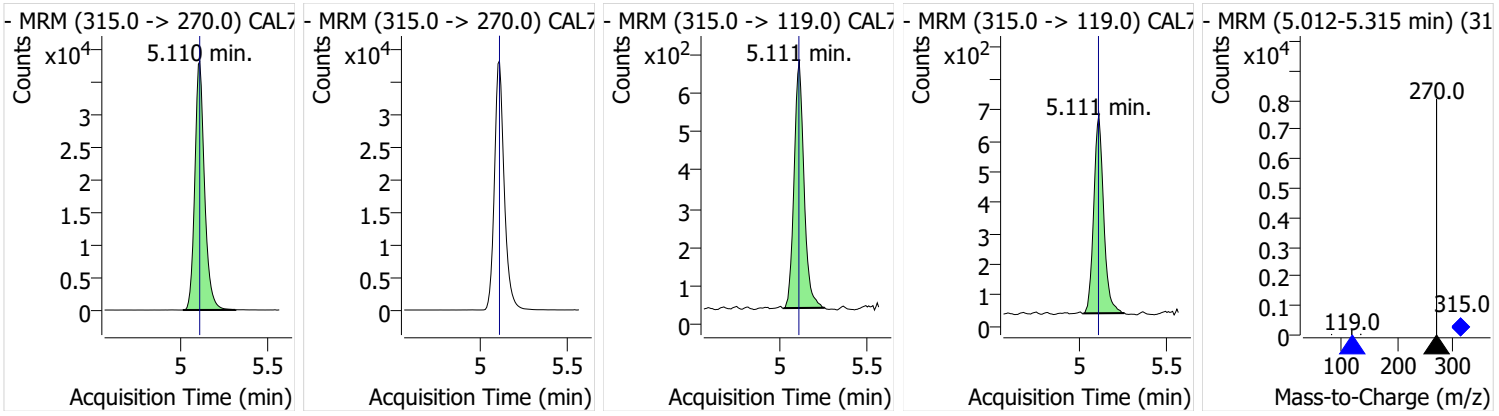
13C2-PFDA



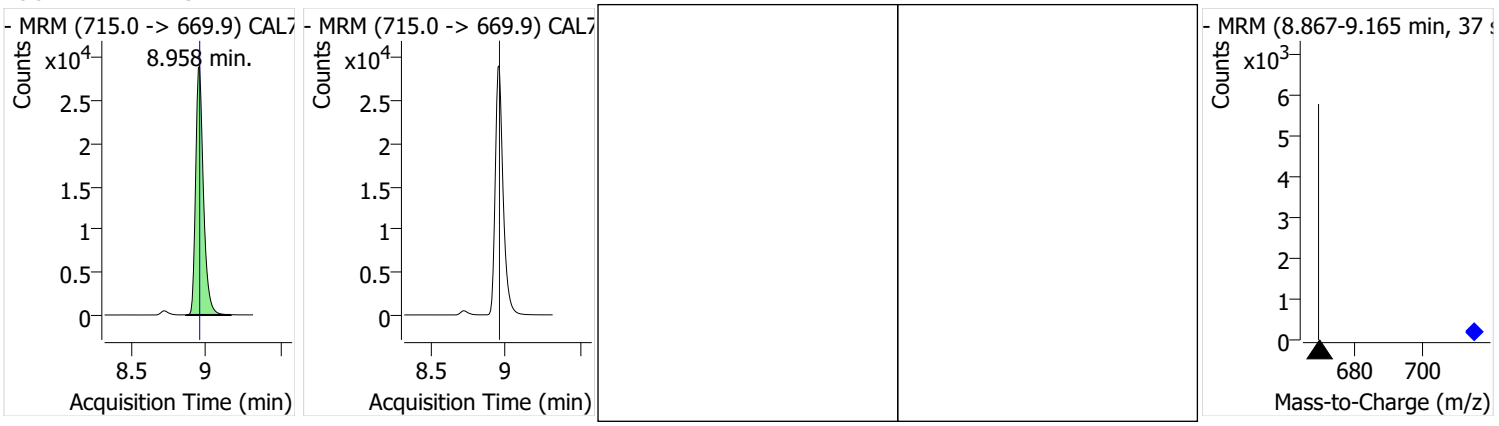
13C2-PFDoA - ISTD



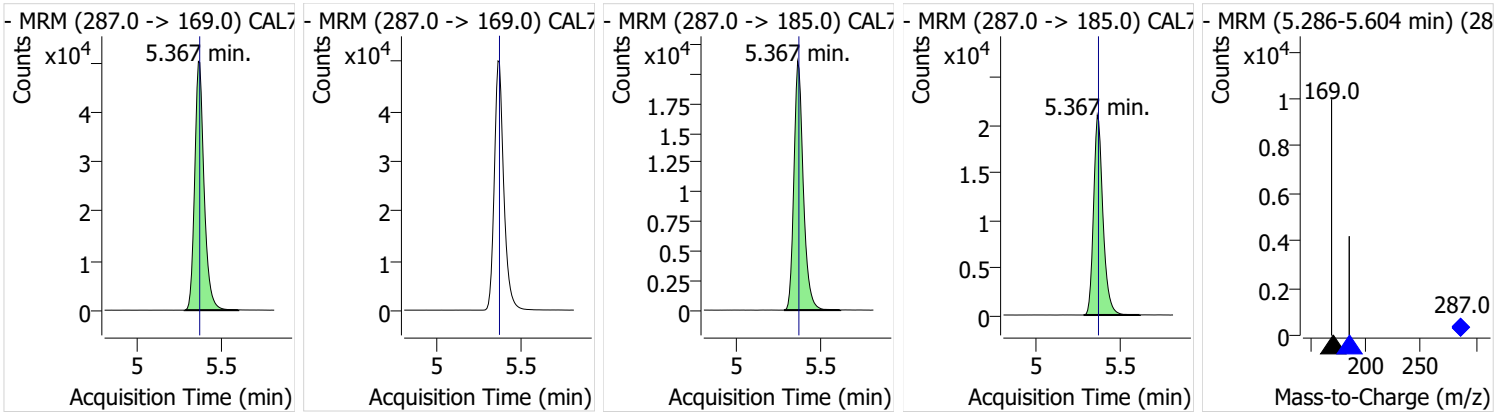
13C2-PFHxA



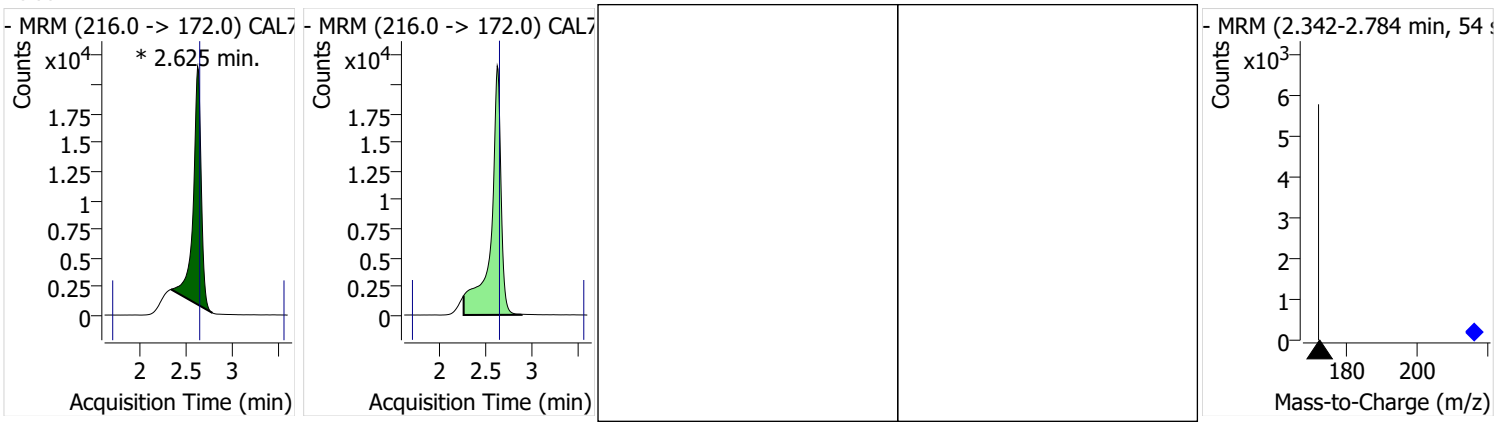
13C2-PFTeDA - ISTD



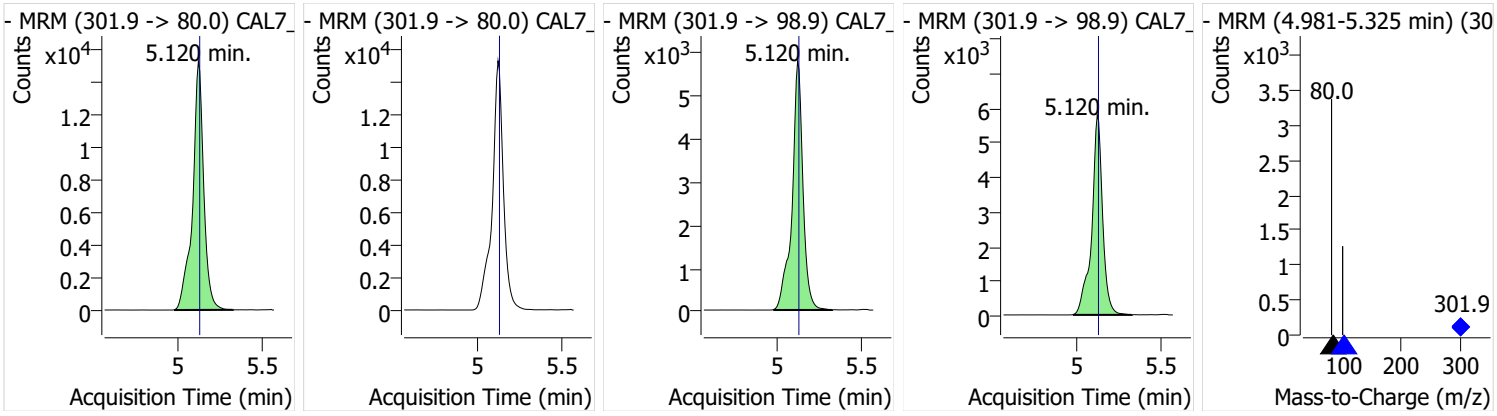
13C3-HFPODA - ISTD



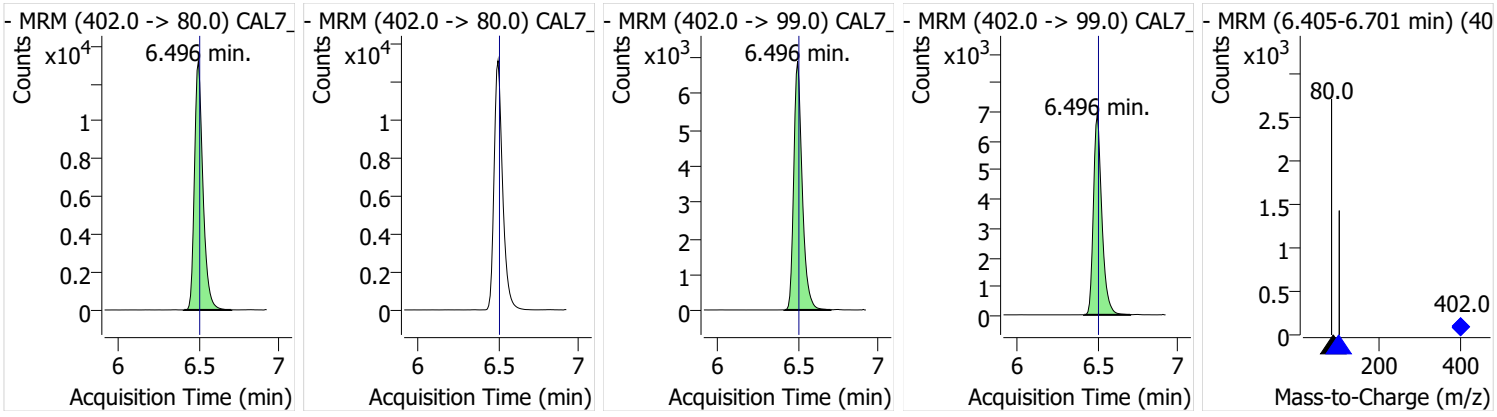
13C3-PFBA



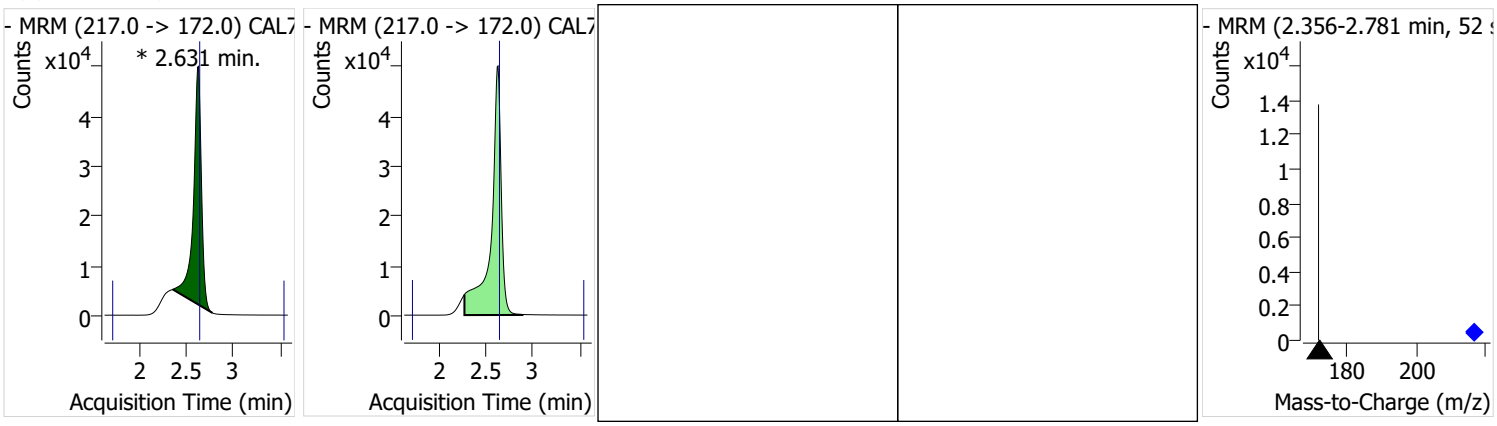
13C3-PFBS - ISTD



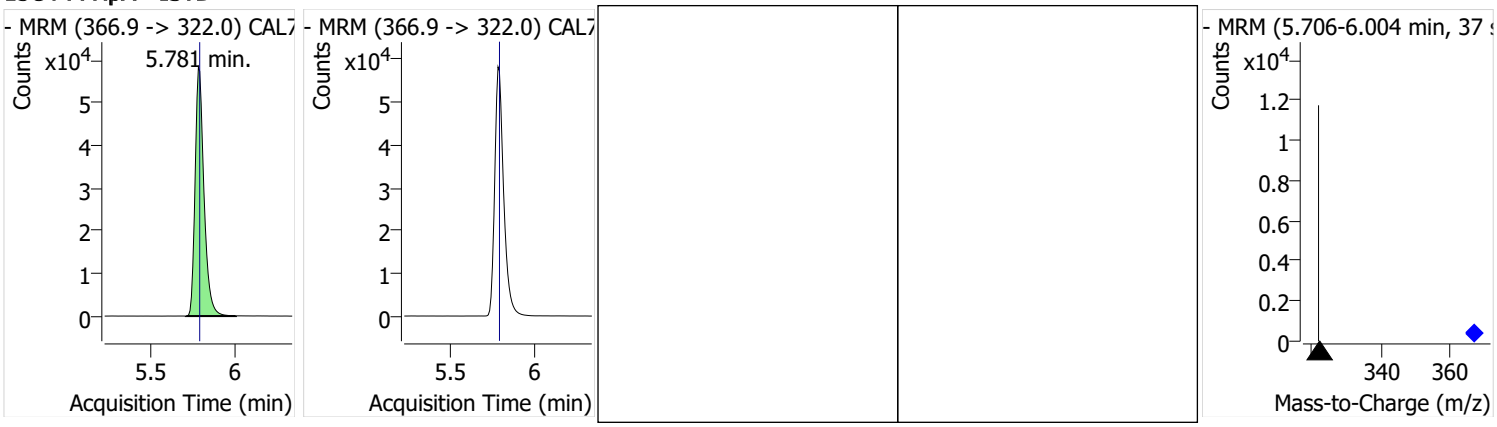
13C3-PFHxS - ISTD



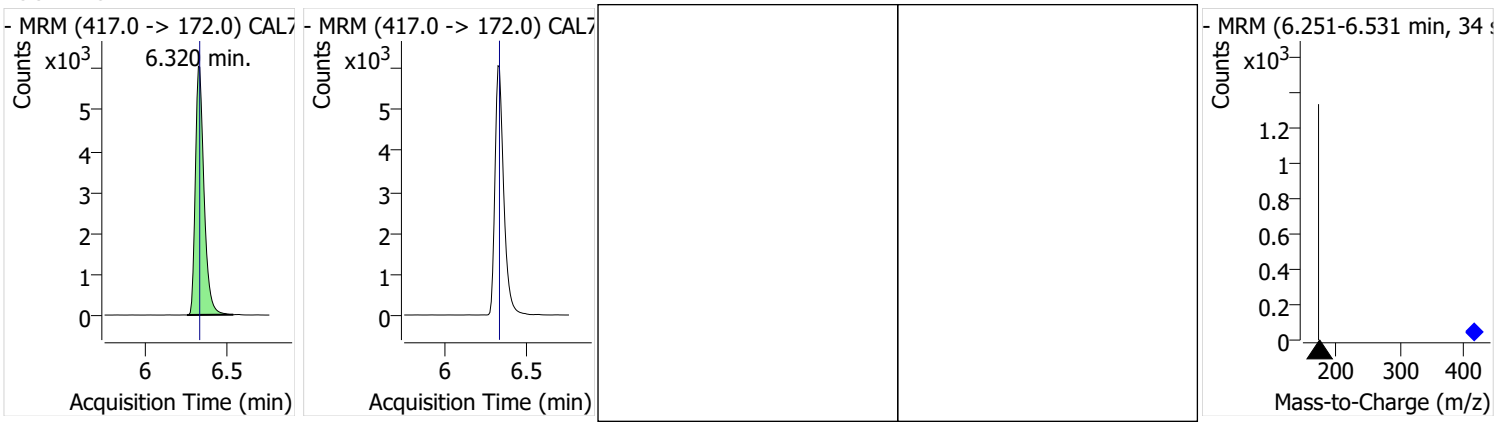
13C4-PFBA - ISTD



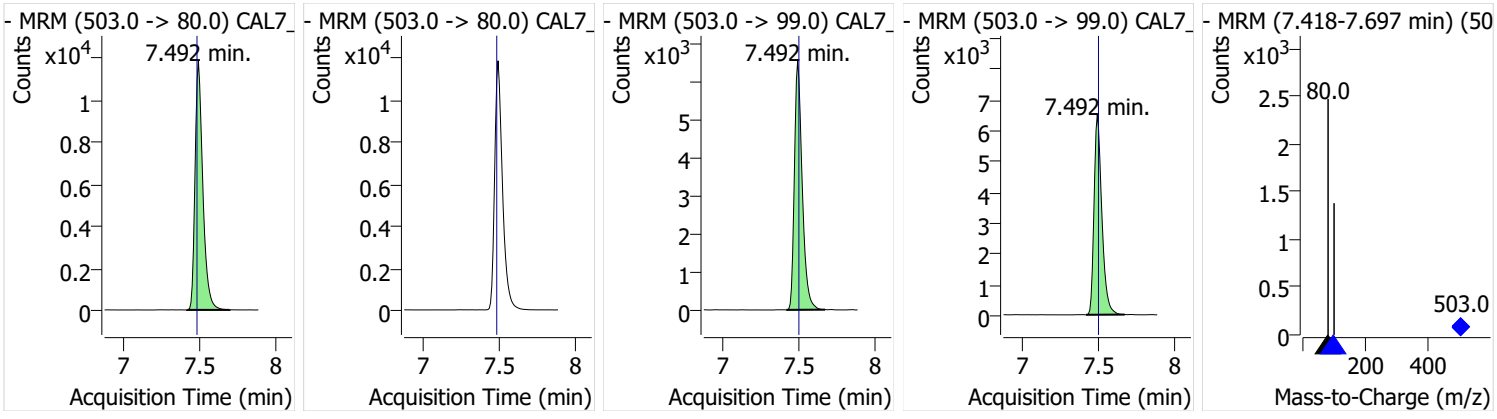
13C4-PFHpA - ISTD



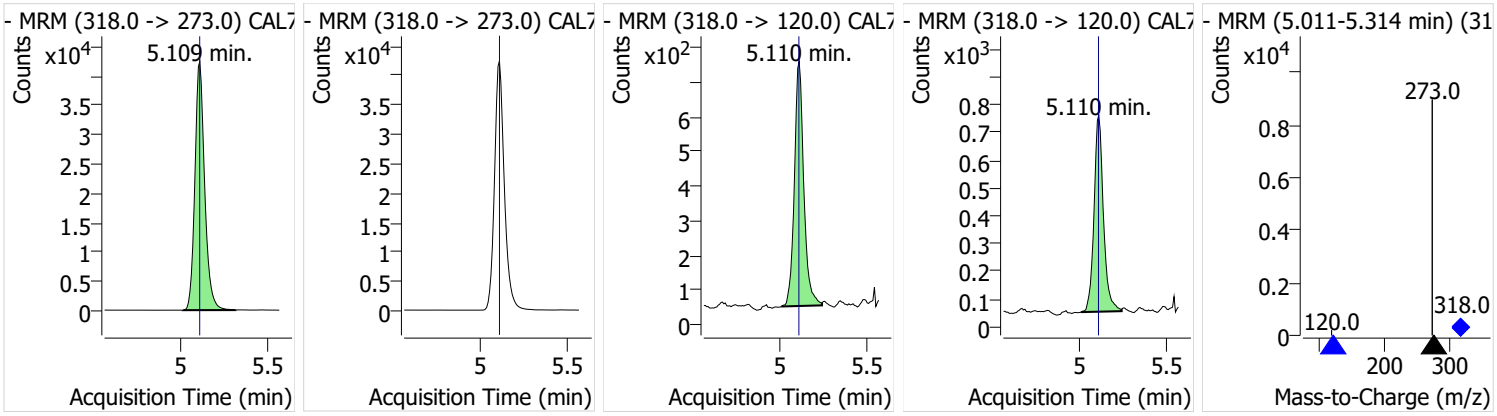
13C4-PFOA



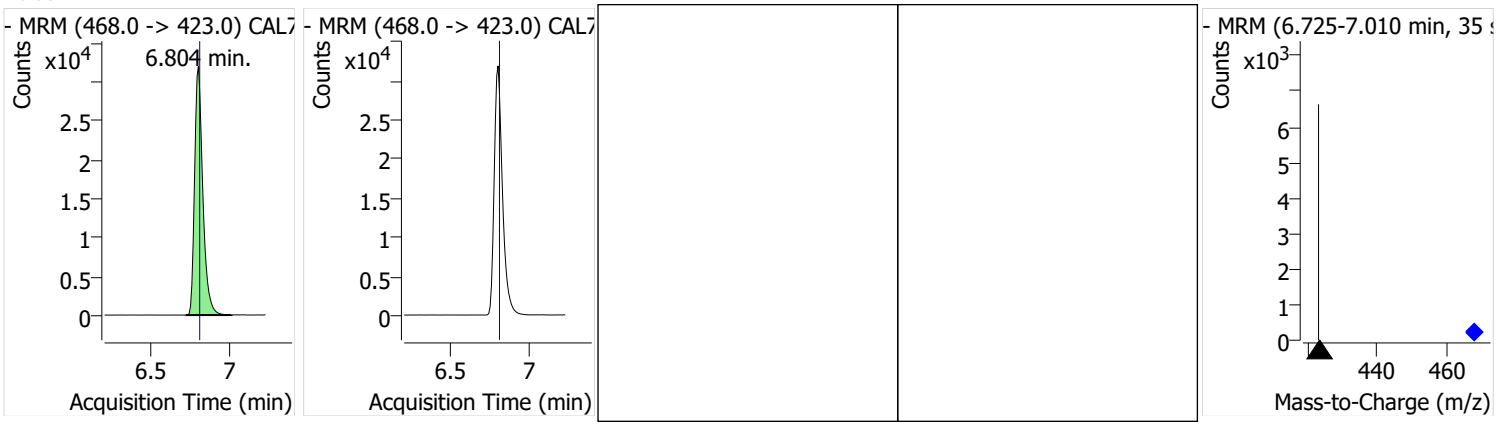
13C4-PFOS



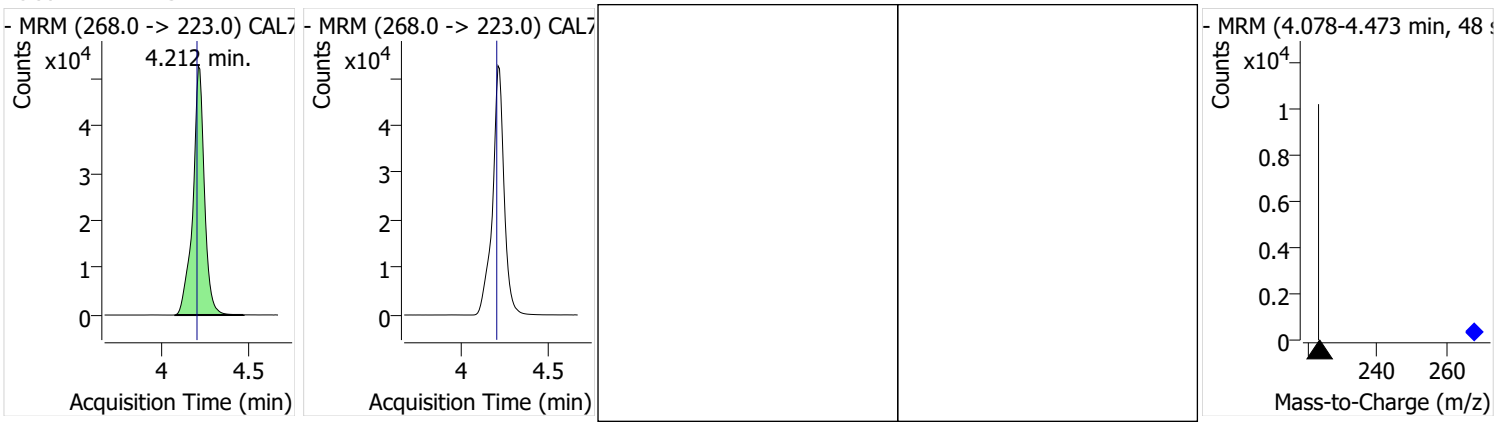
13C5-PFHxA - ISTD



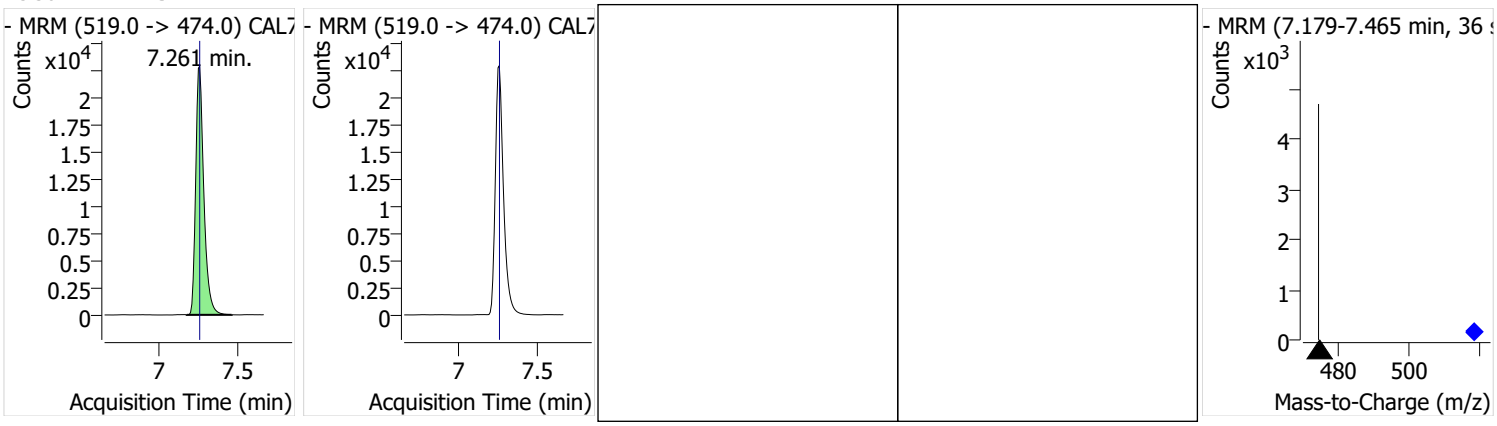
13C5-PFNA



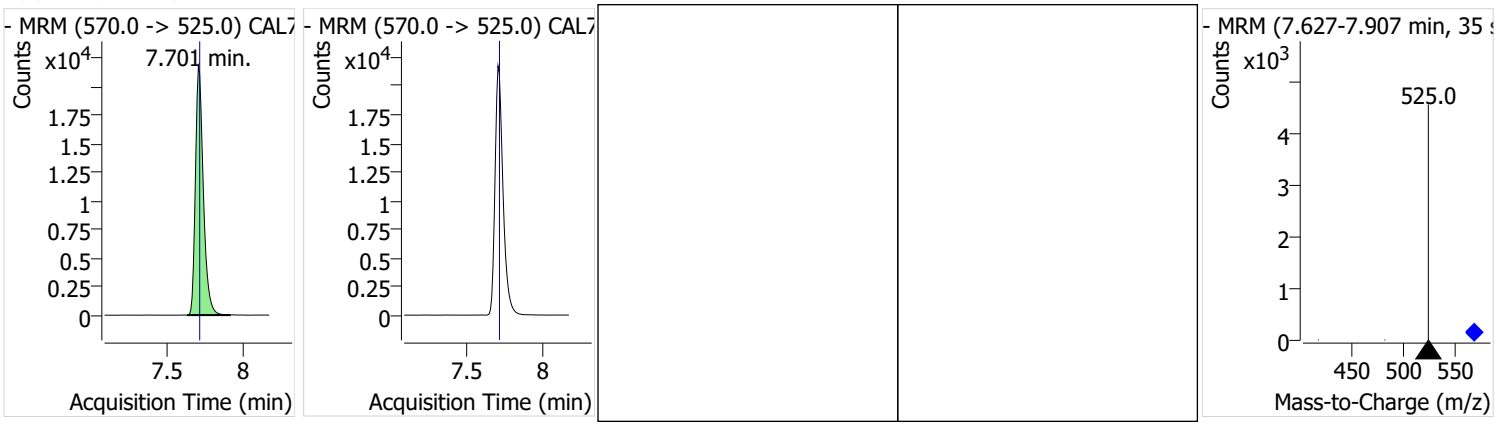
13C5-PFPeA - ISTD



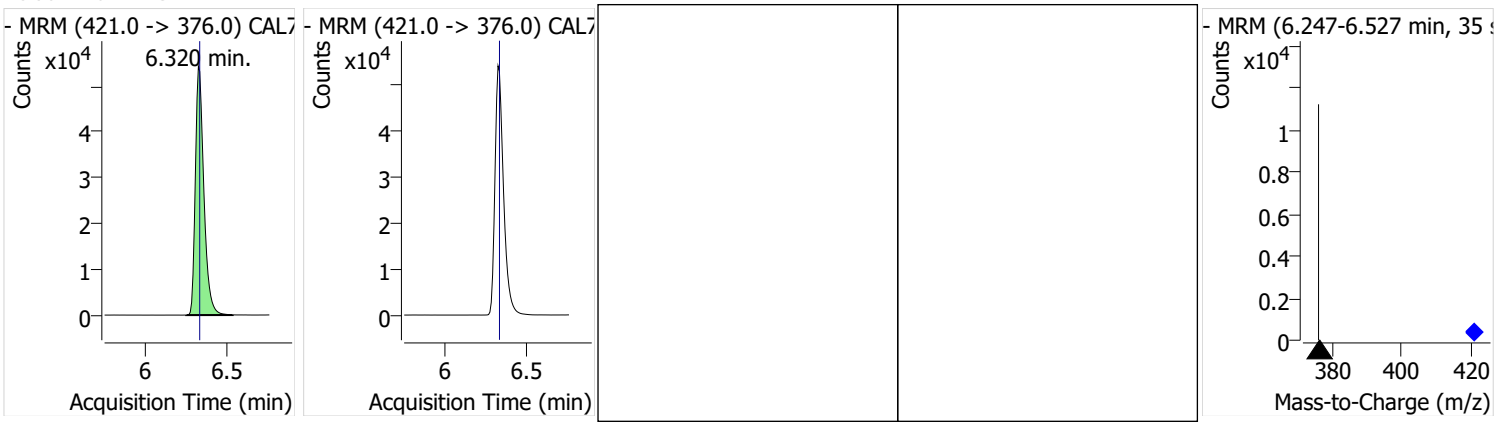
13C6-PFDA - ISTD



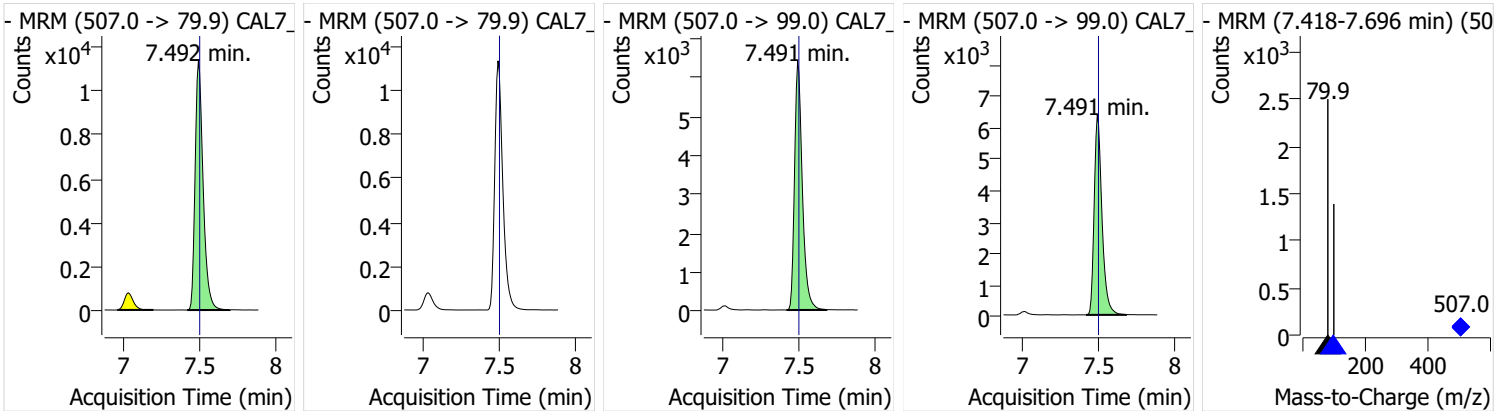
13C7-PFUnA - ISTD



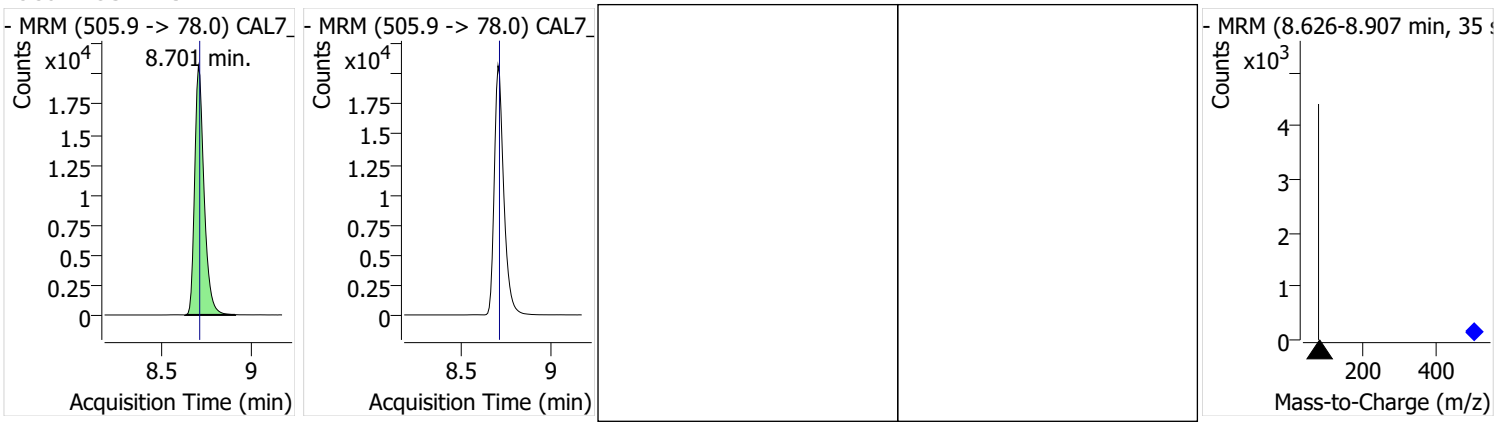
13C8-PFOA - ISTD



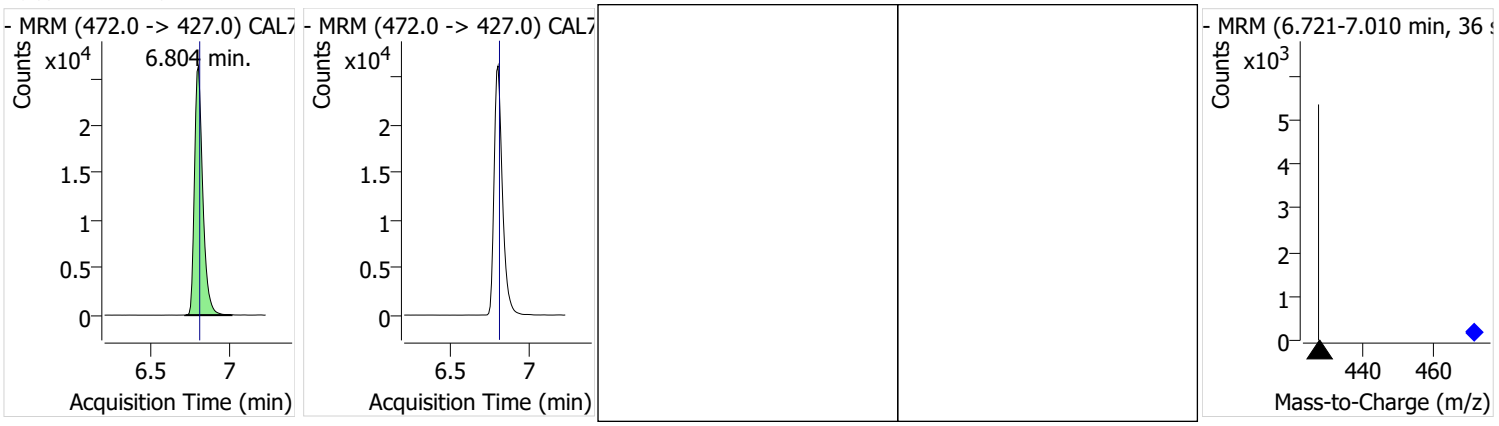
13C8-PFOS - ISTD



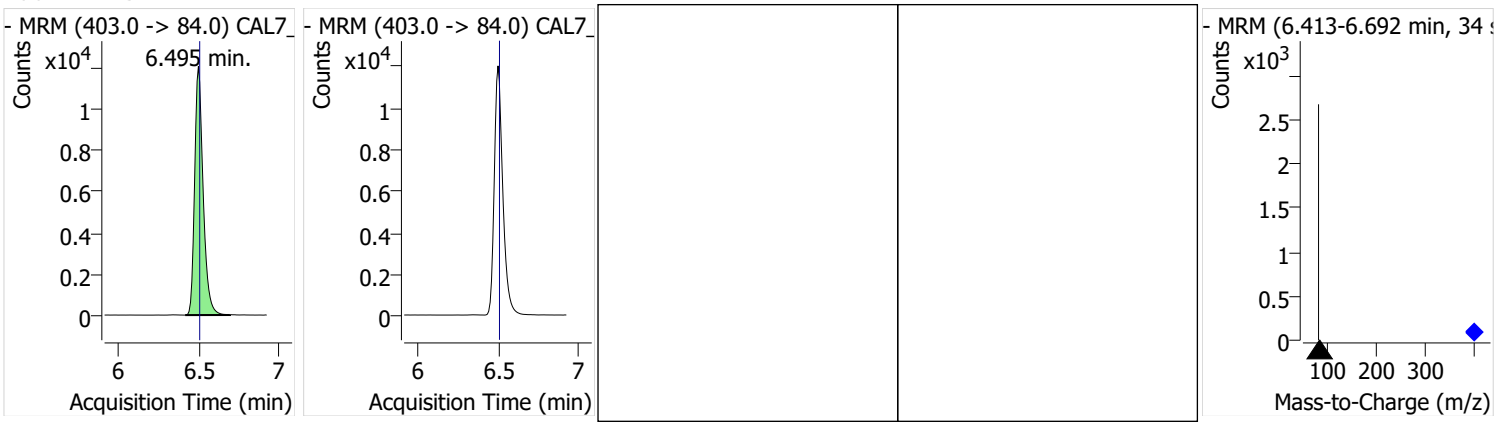
13C8-PFOSA - ISTD



13C9-PFNA - ISTD



18O2-PFHxS



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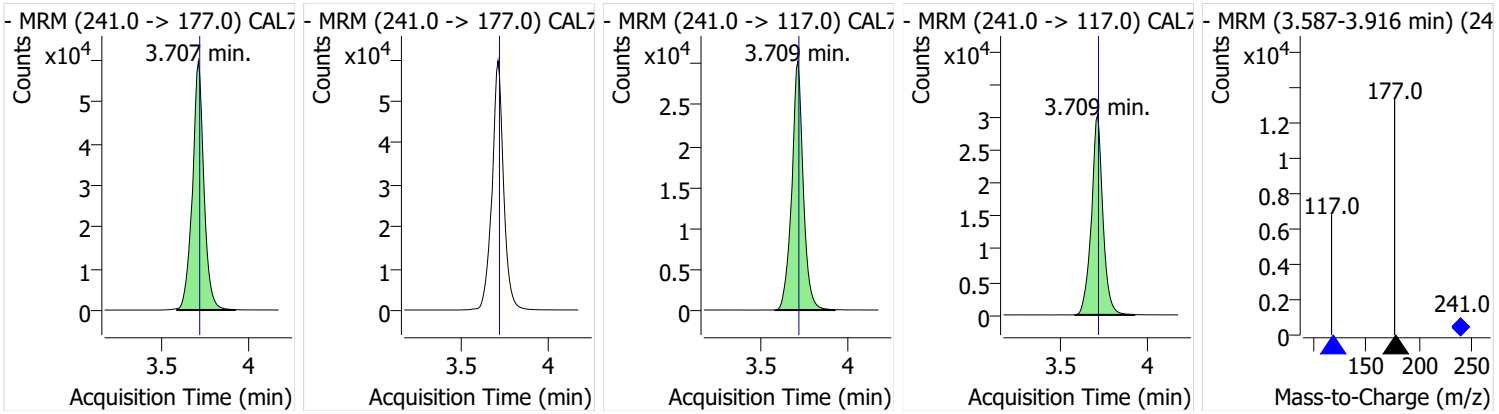

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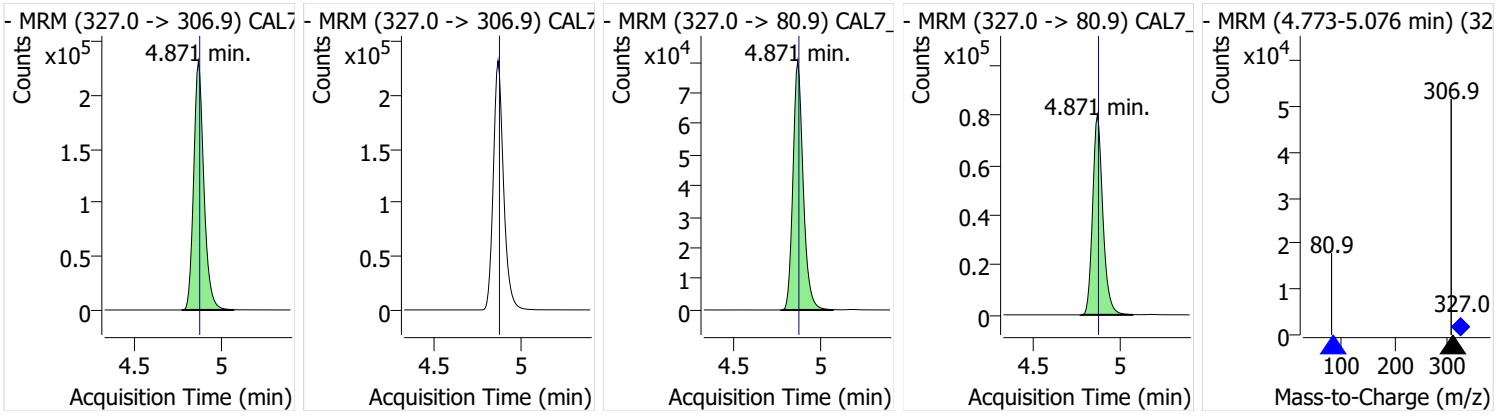

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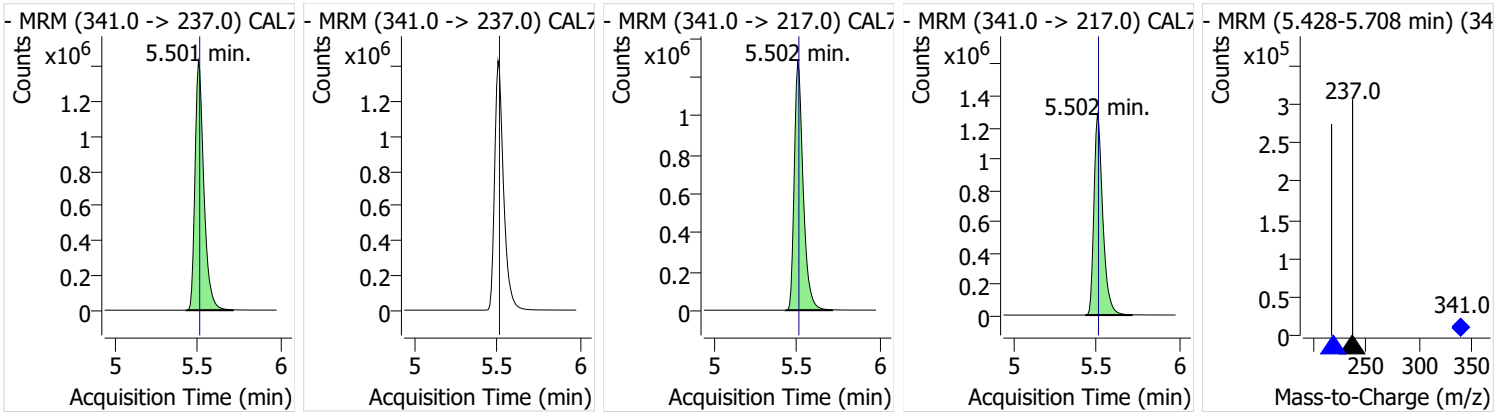

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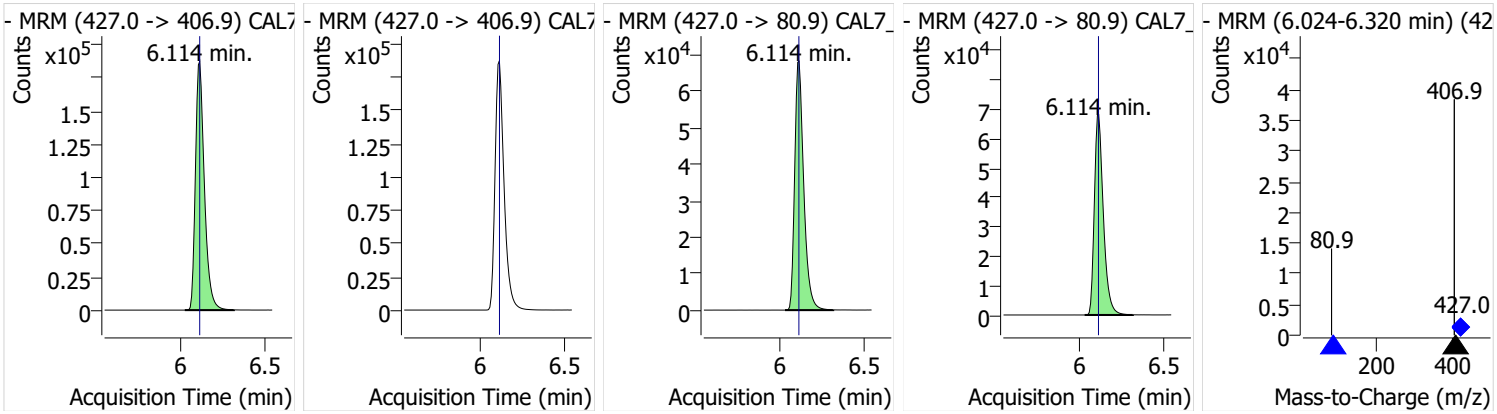

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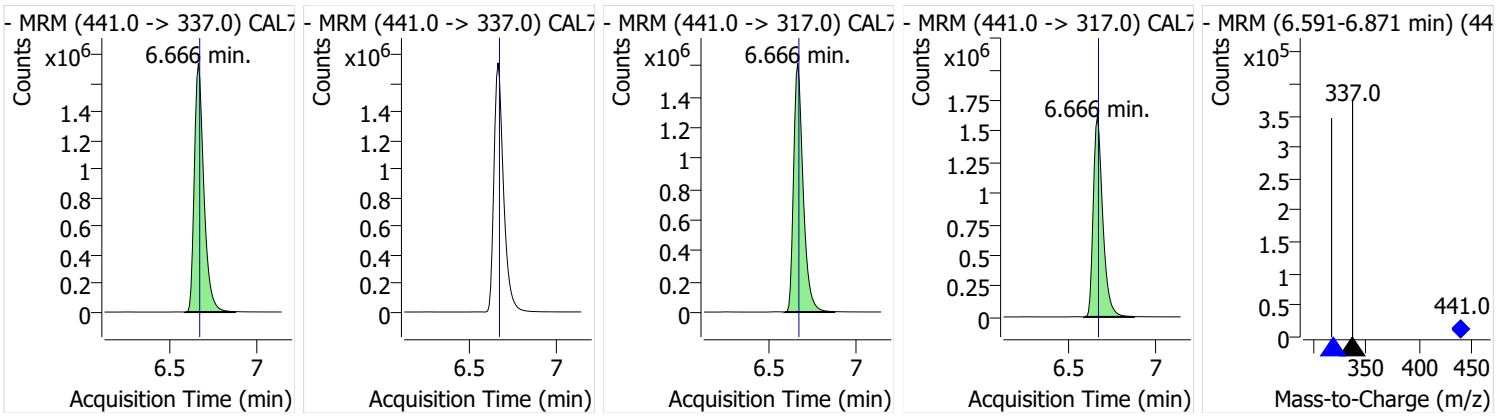

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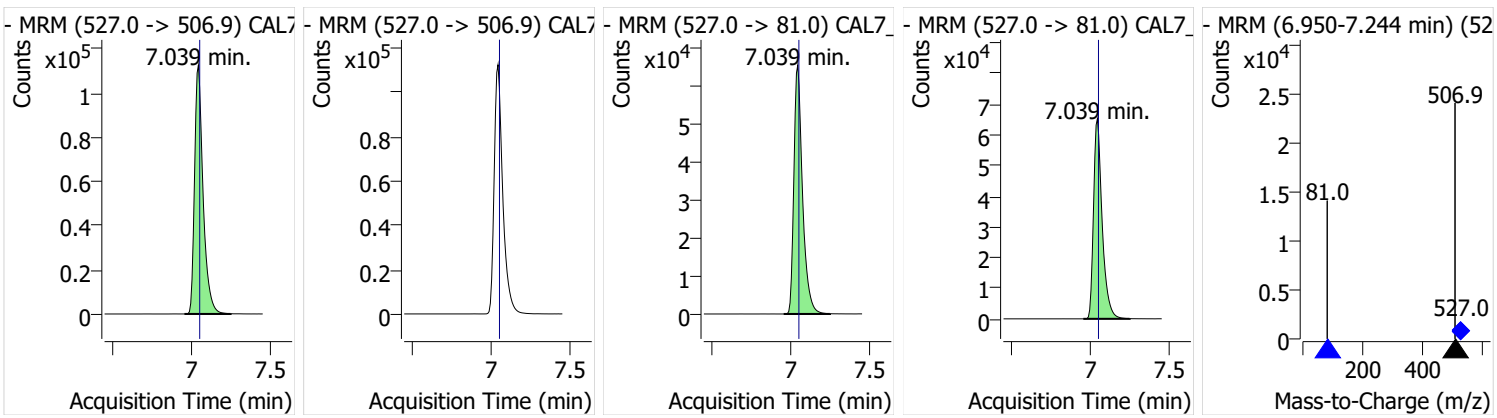

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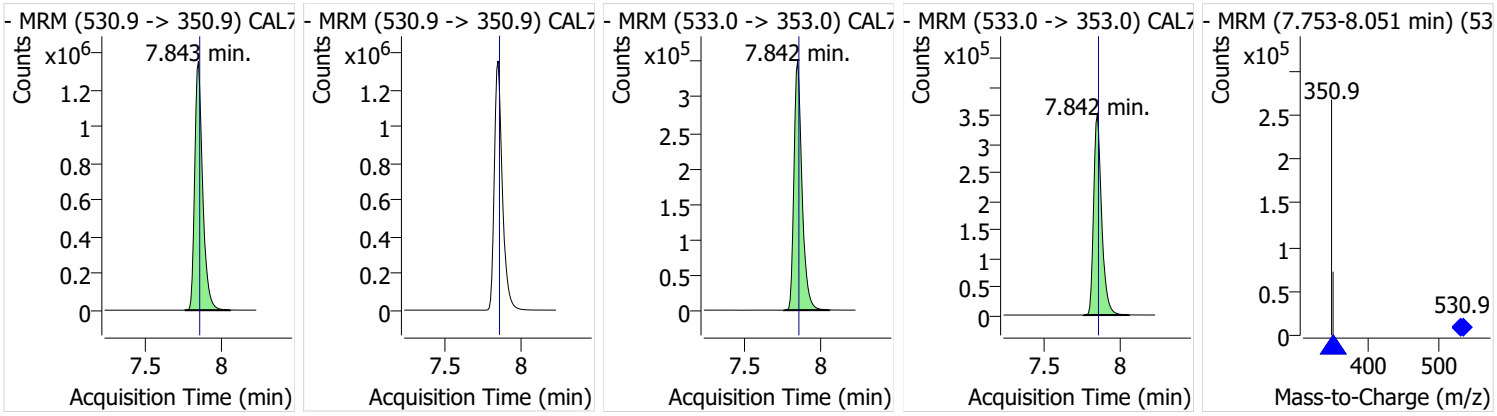

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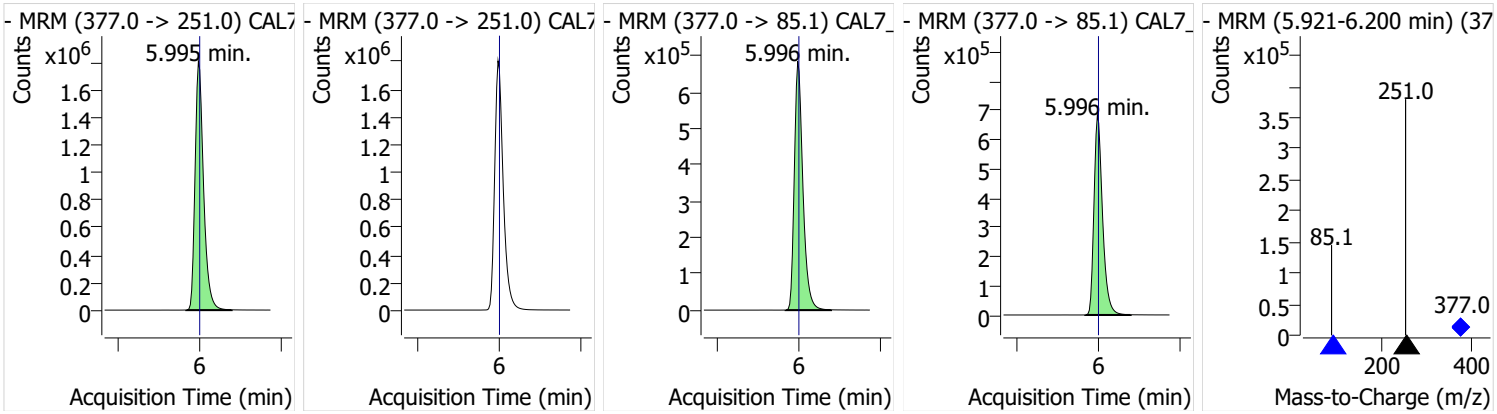

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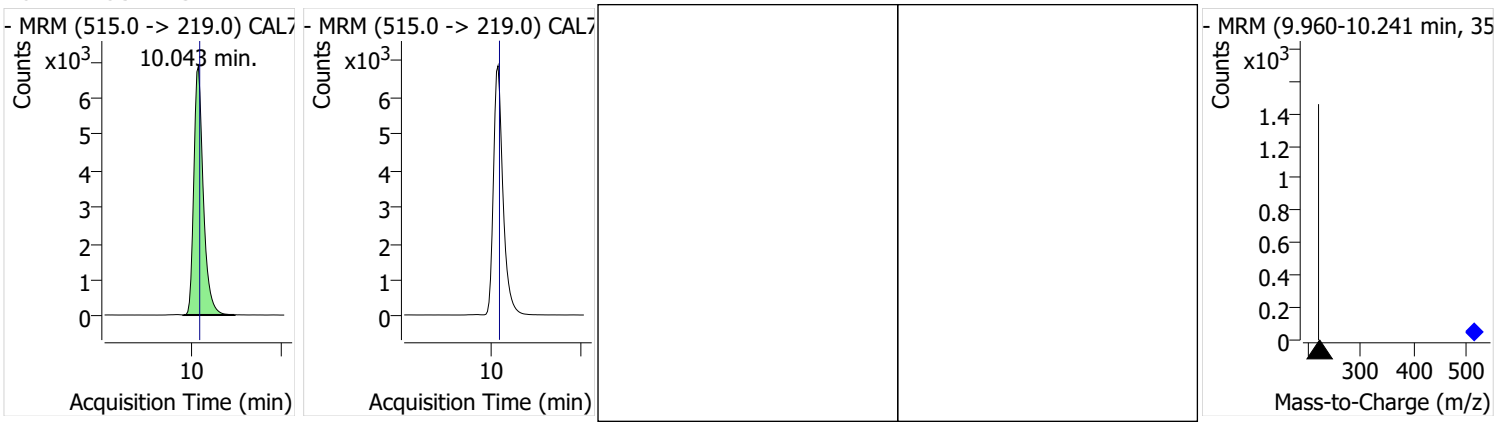

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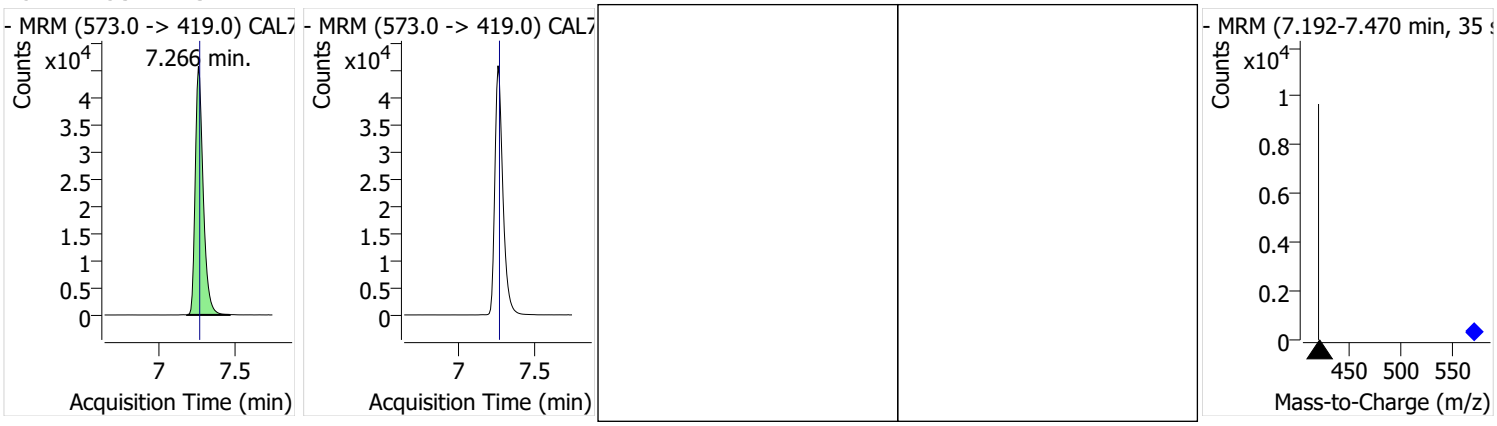

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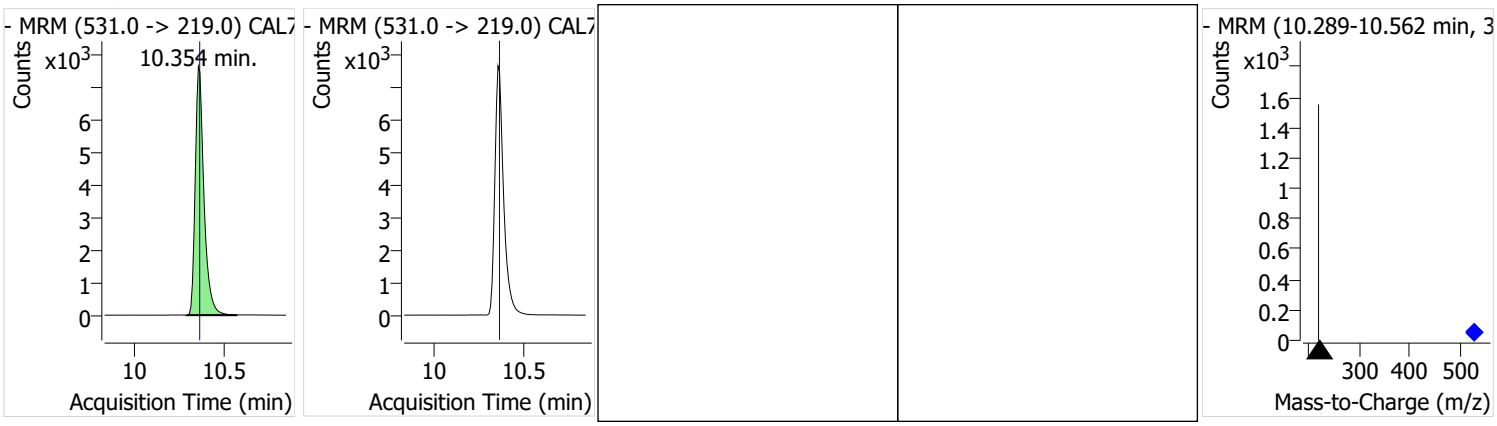

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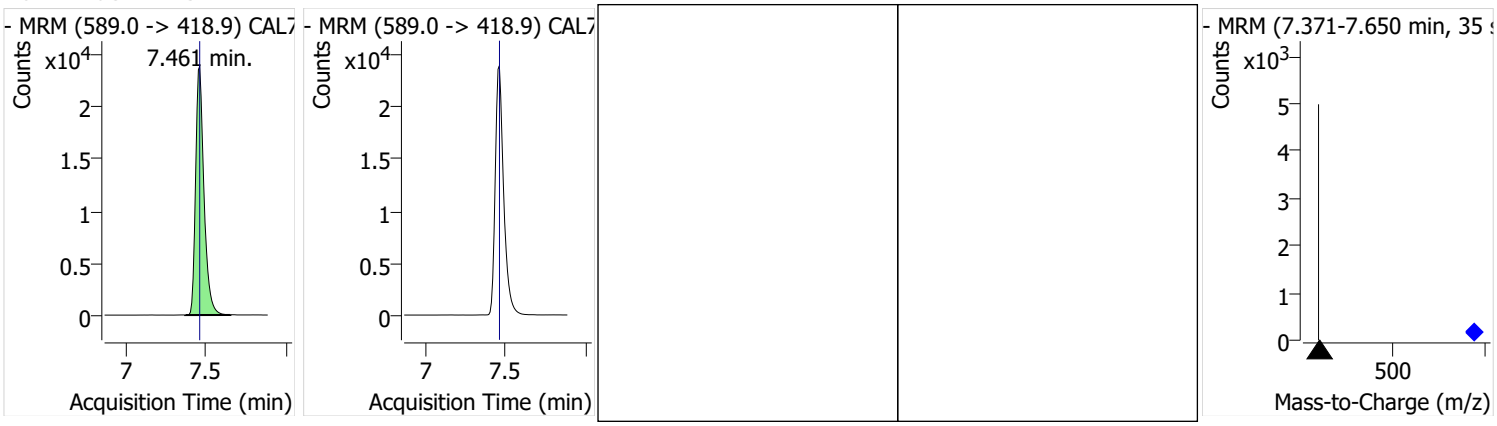

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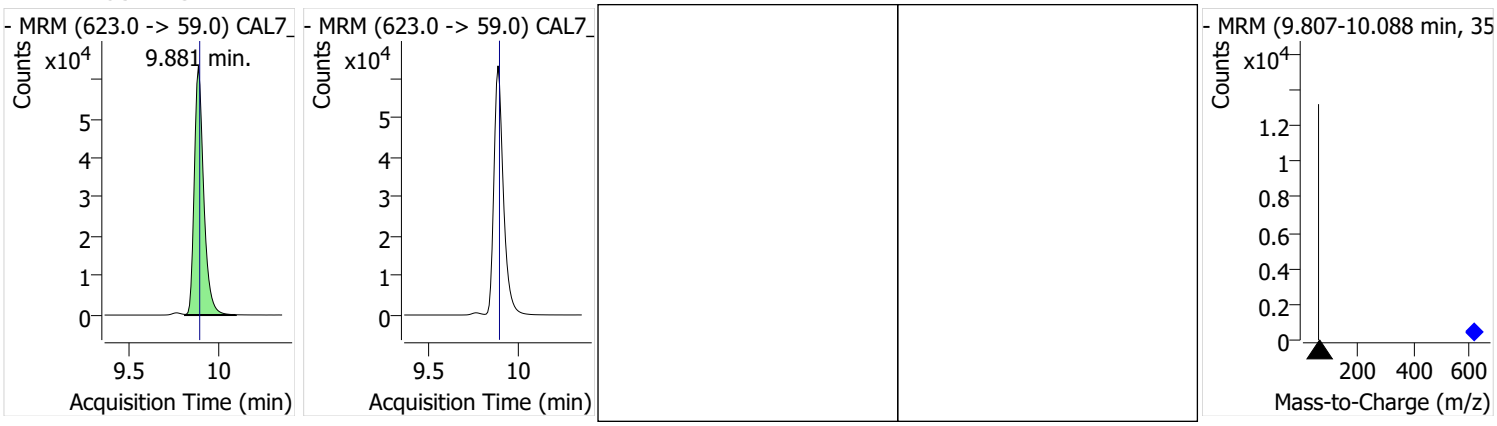

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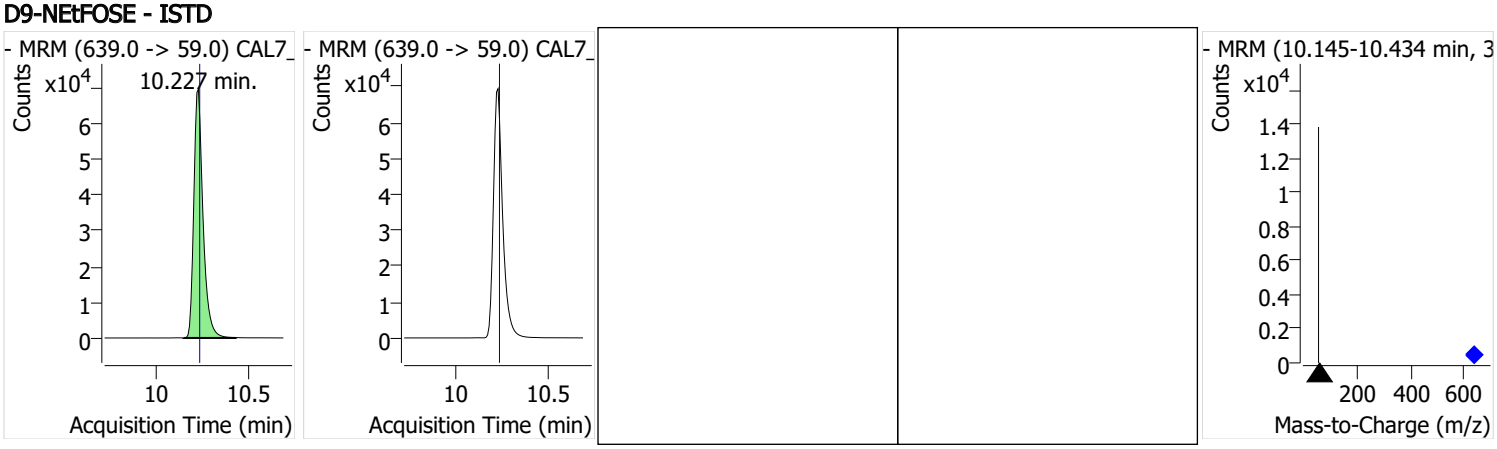

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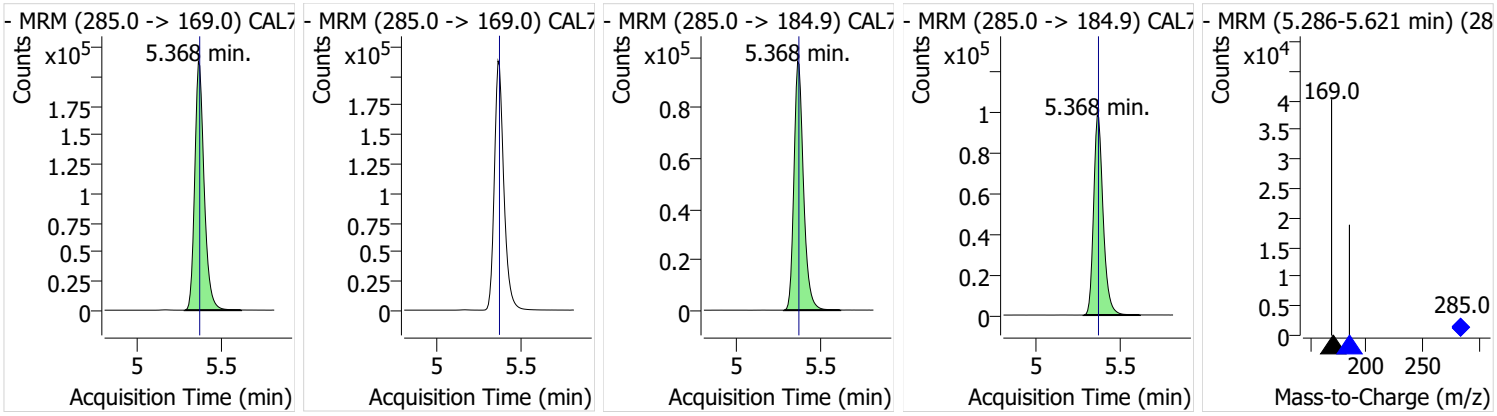

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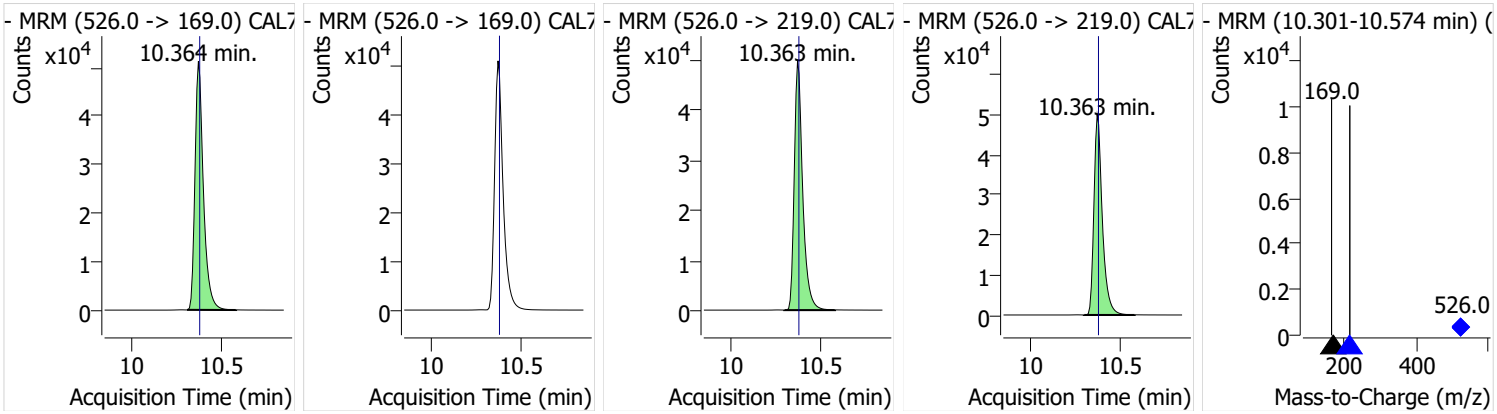

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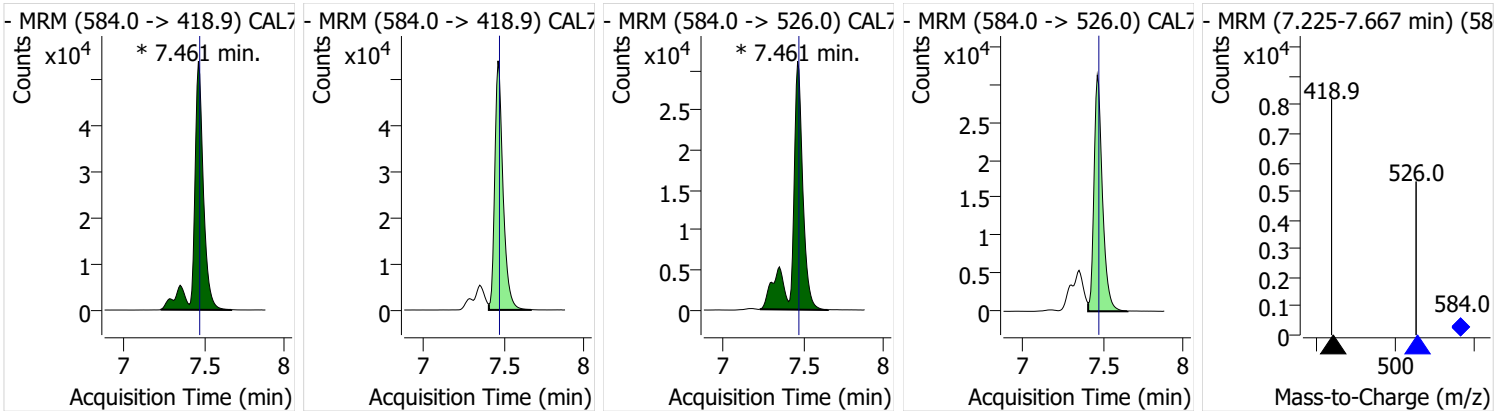

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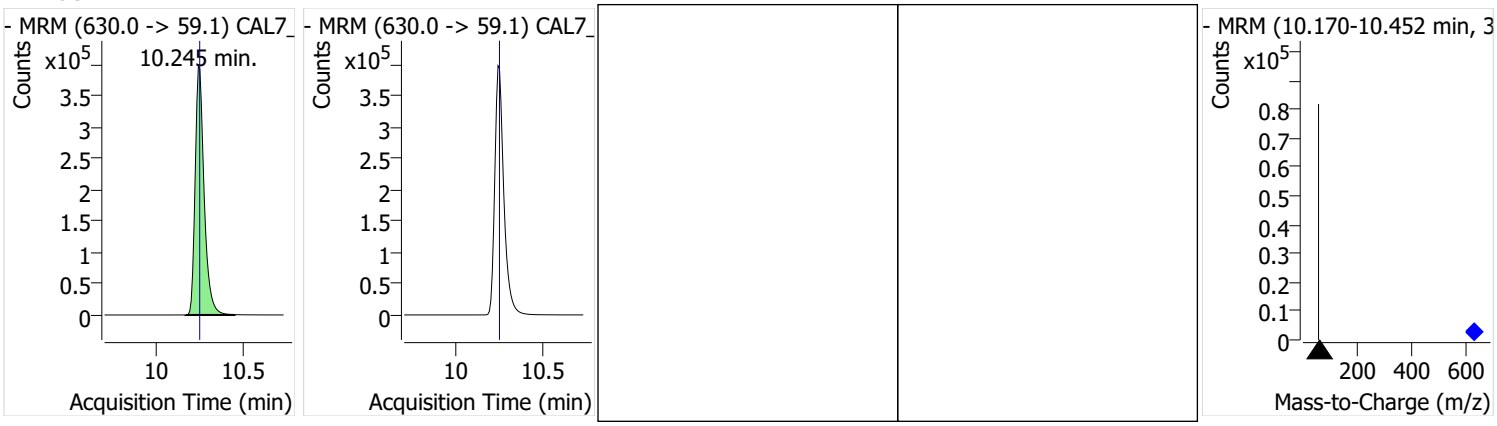

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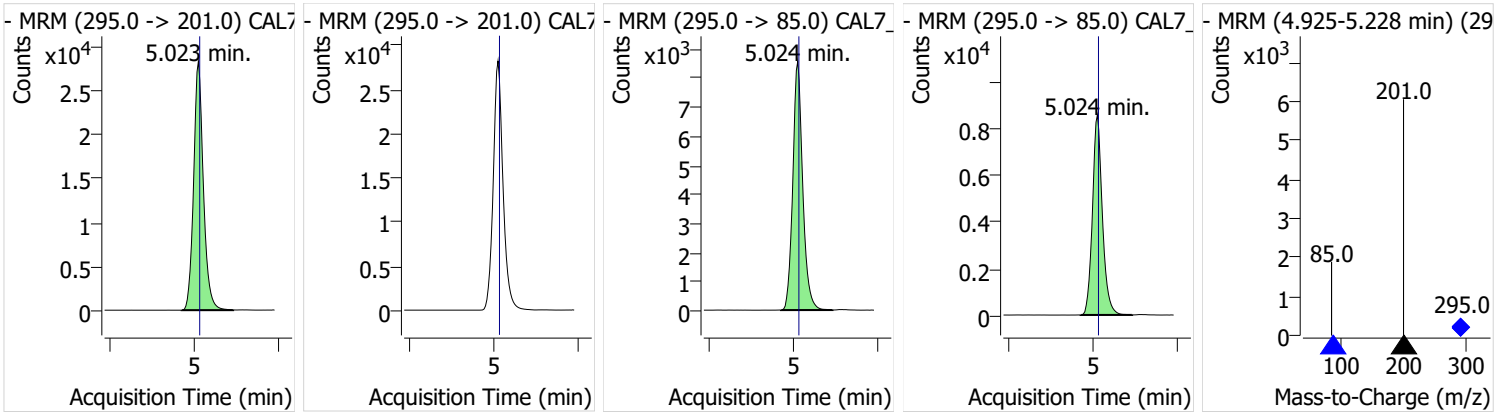

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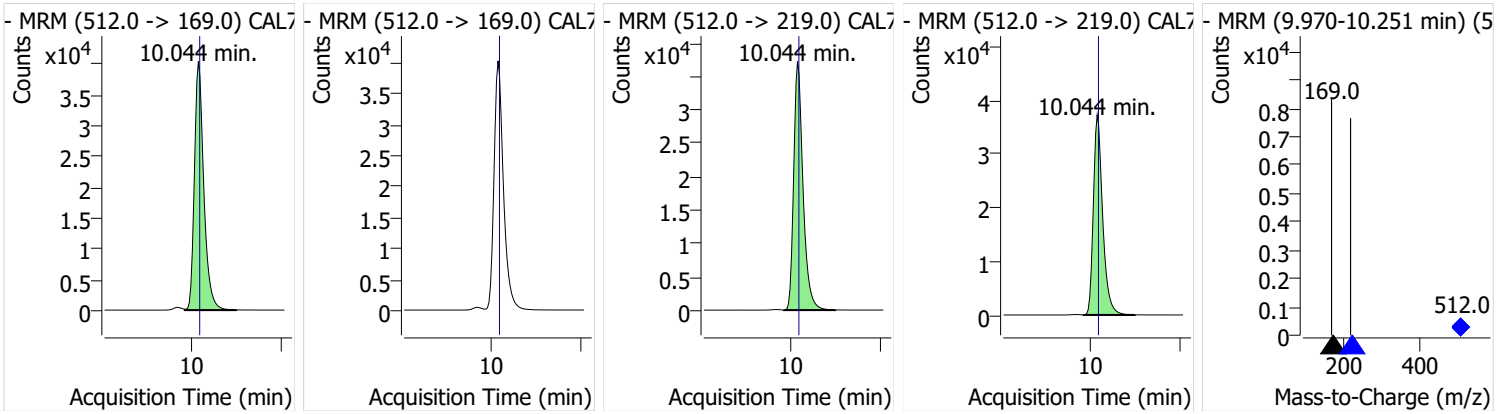

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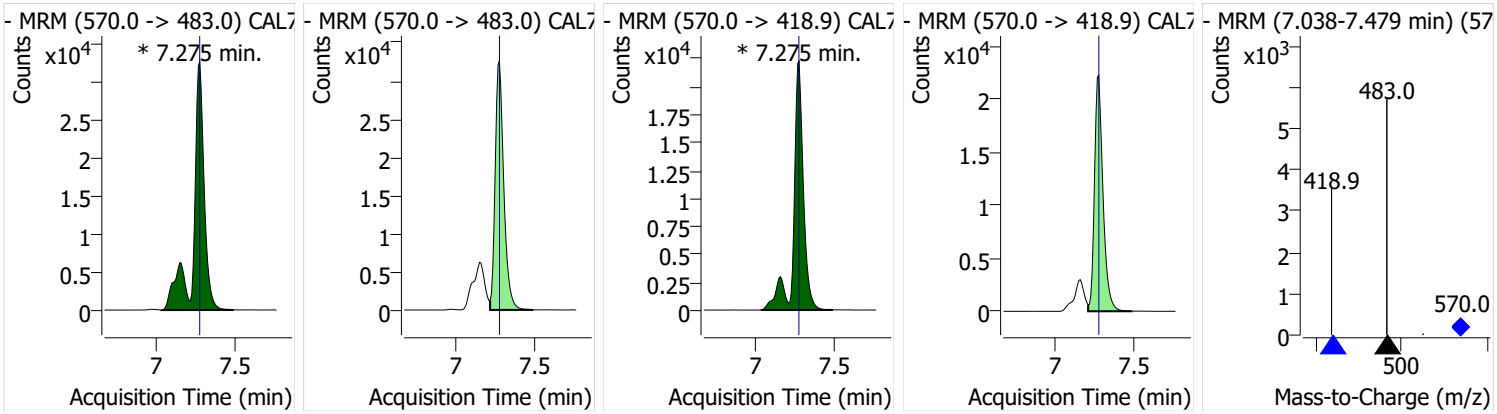

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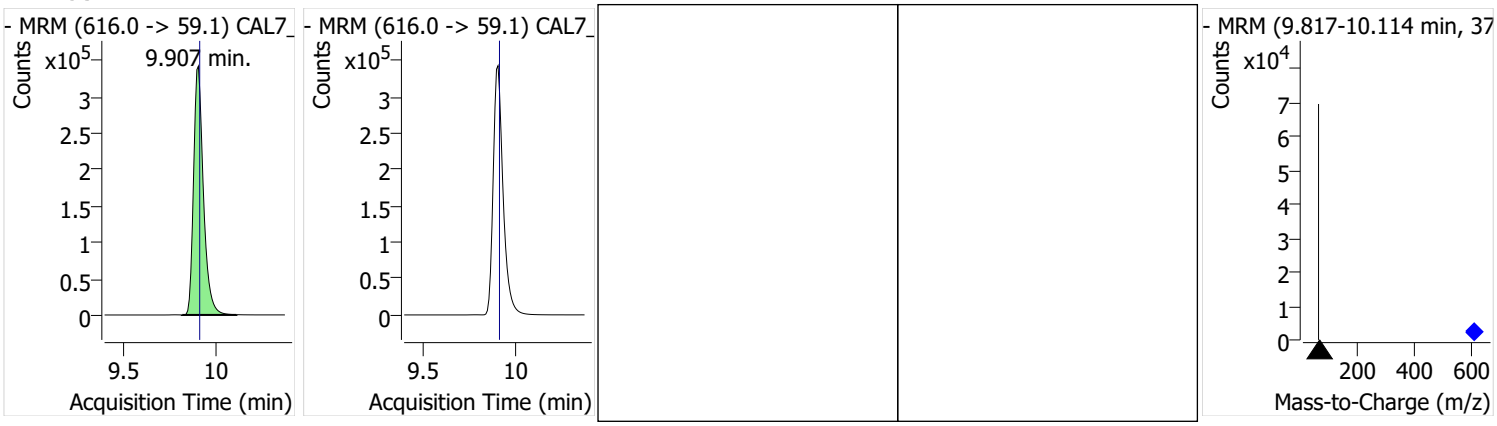

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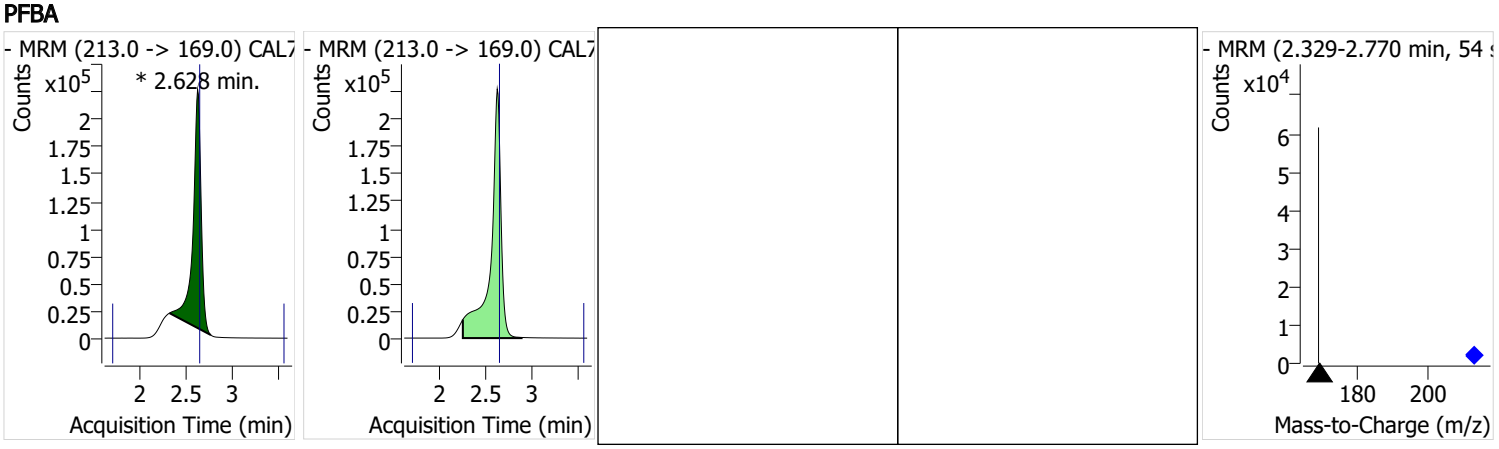

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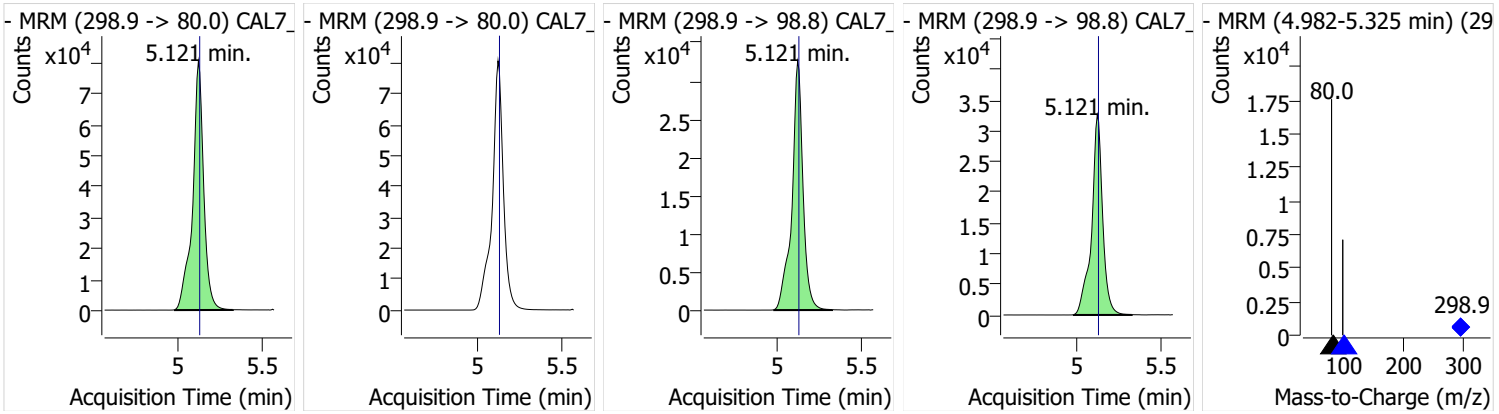

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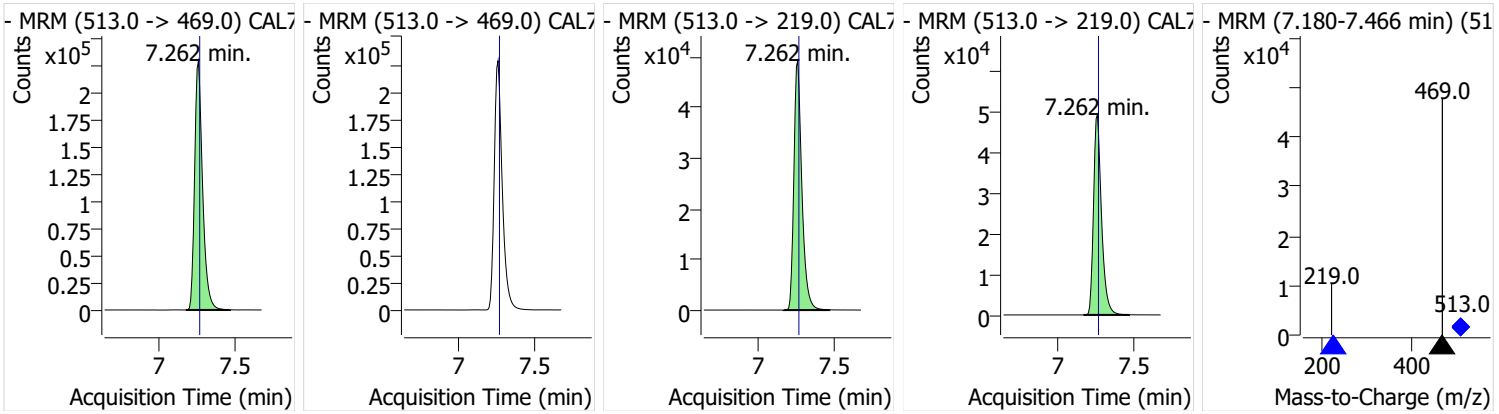

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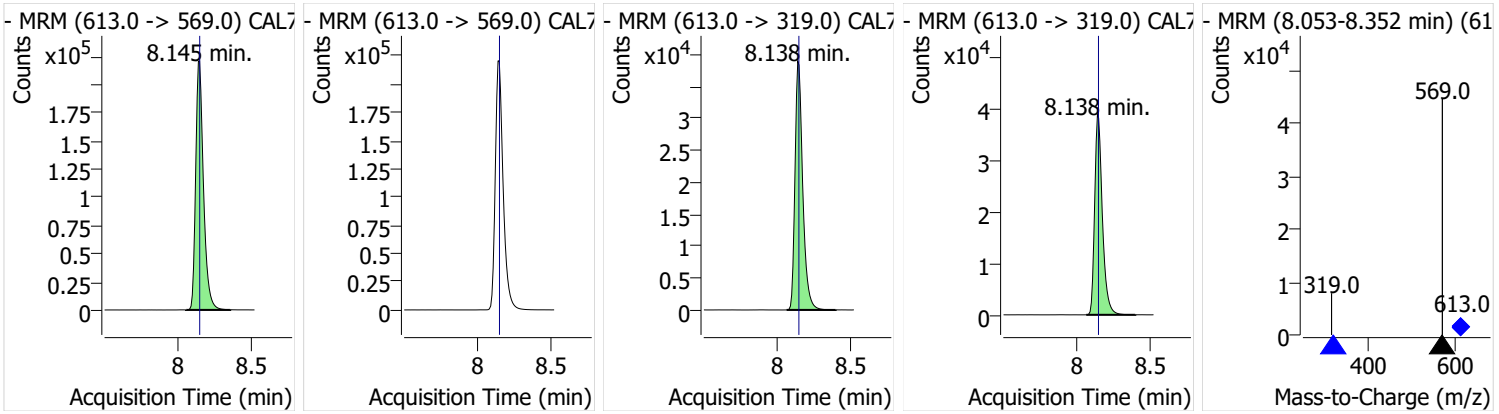

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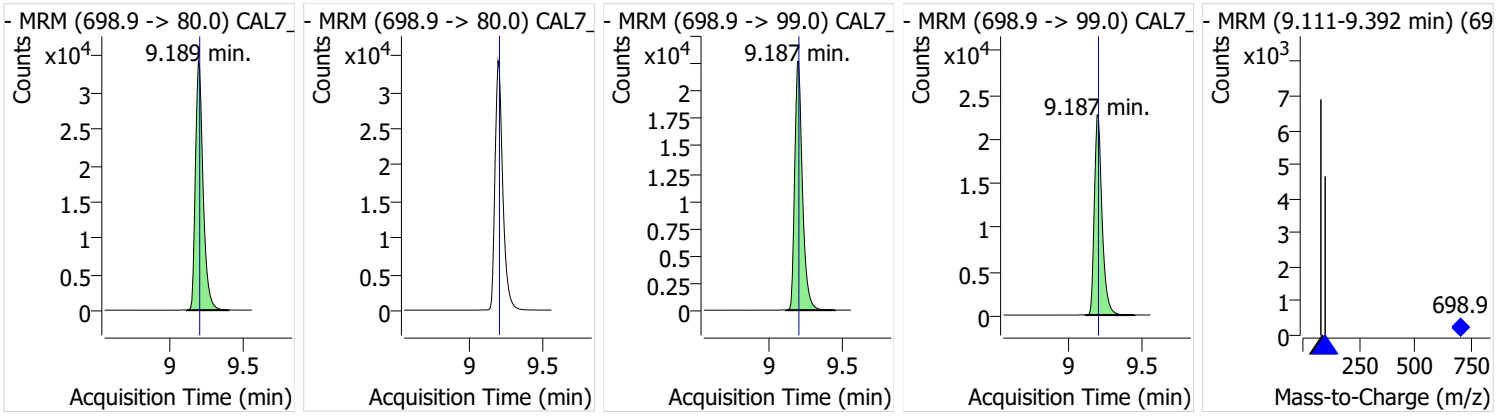

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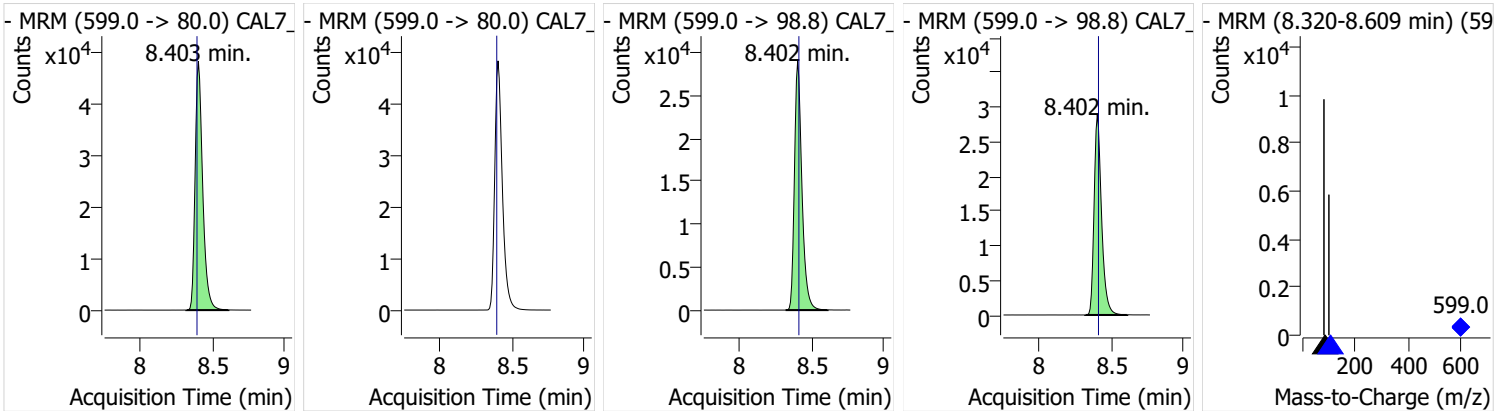

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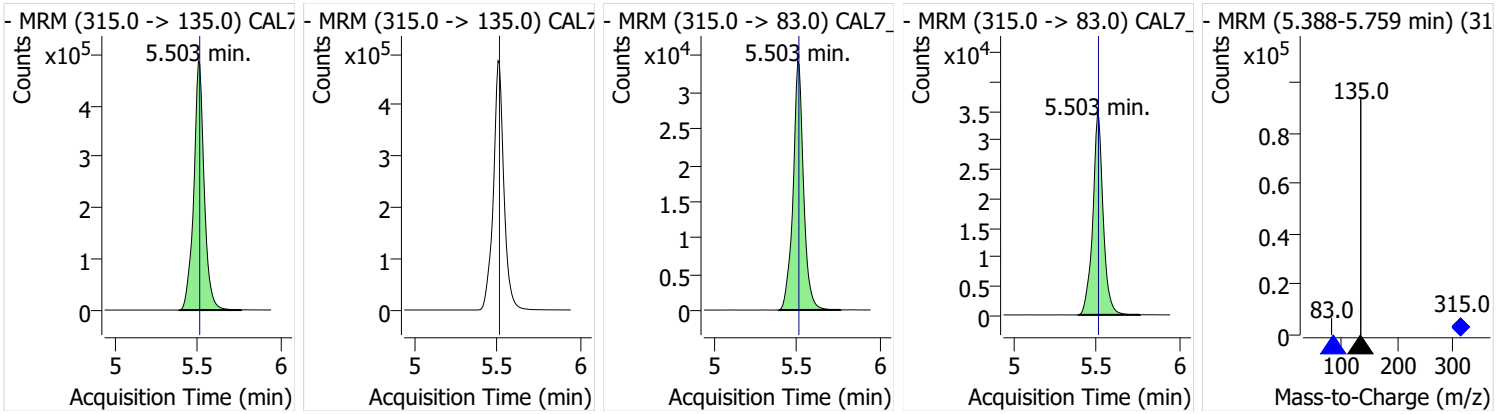

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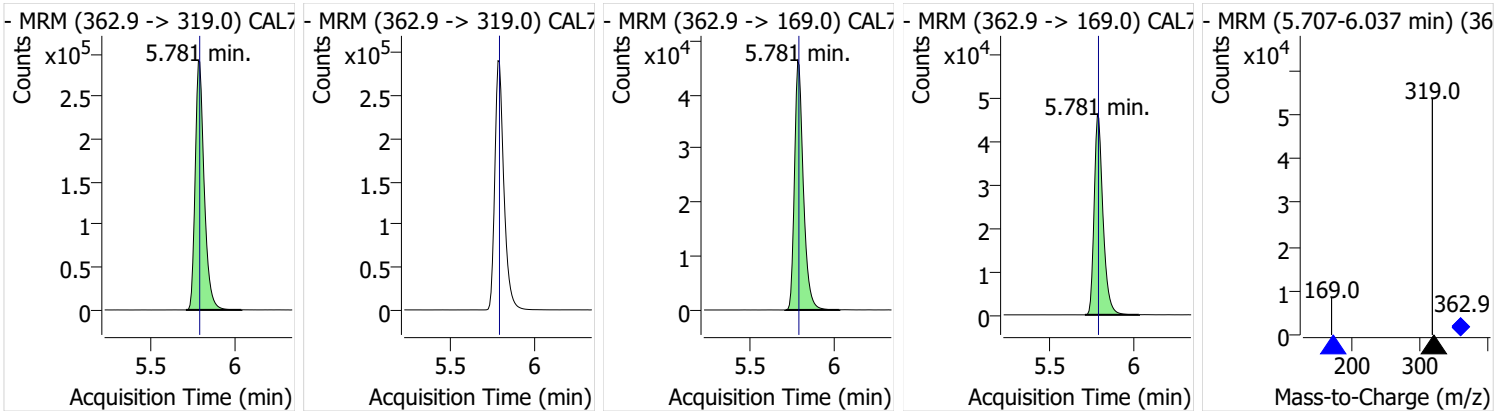

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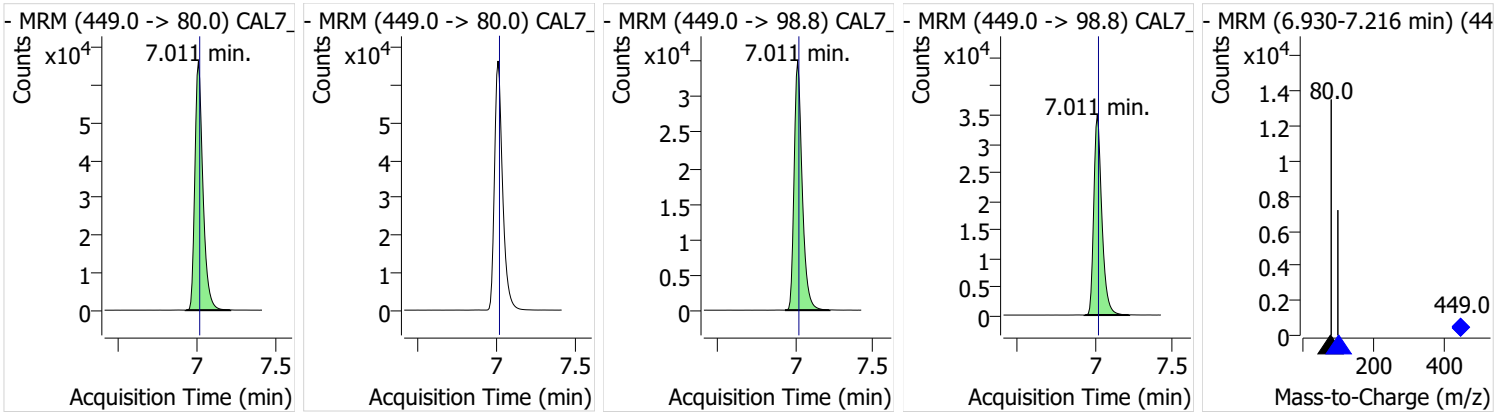

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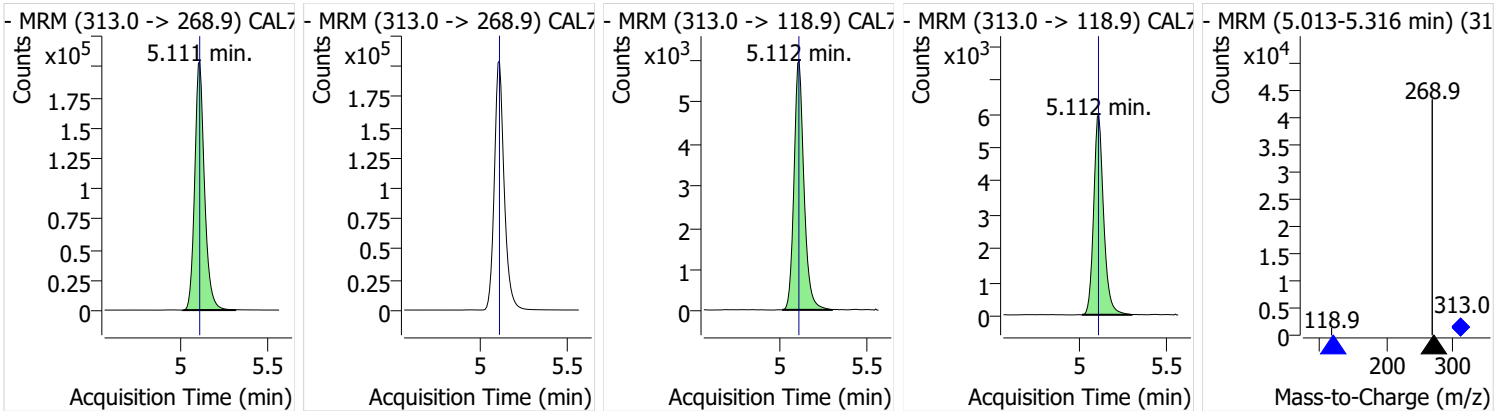

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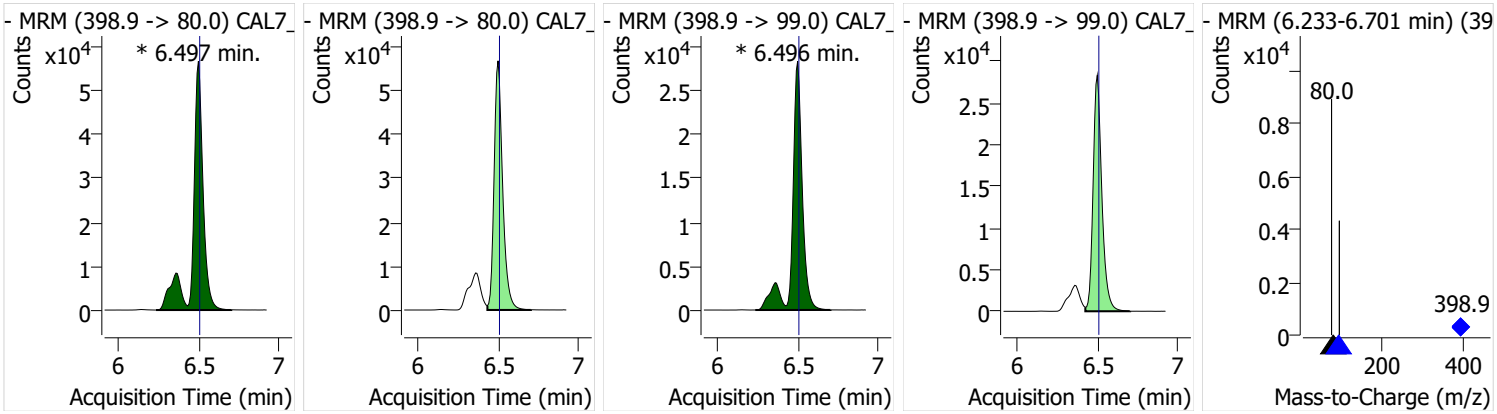

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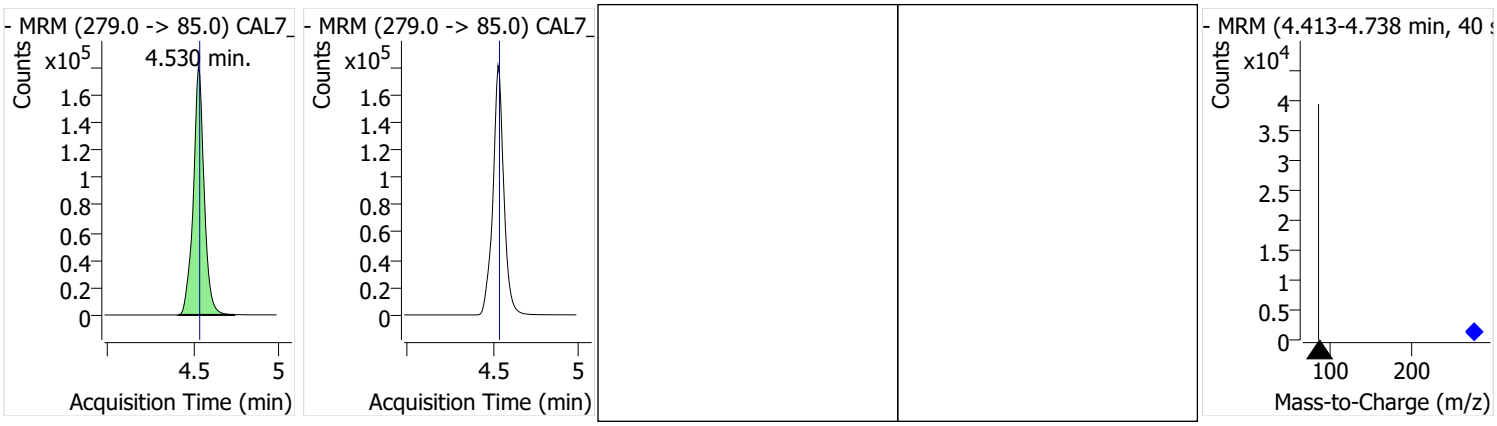

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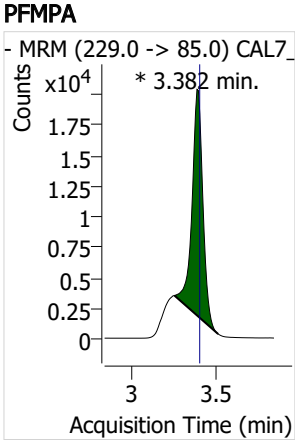

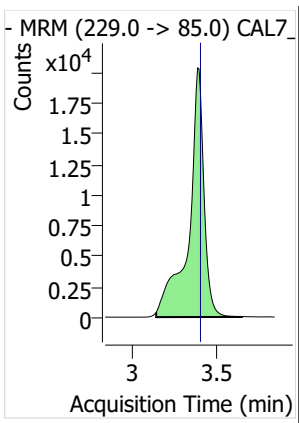

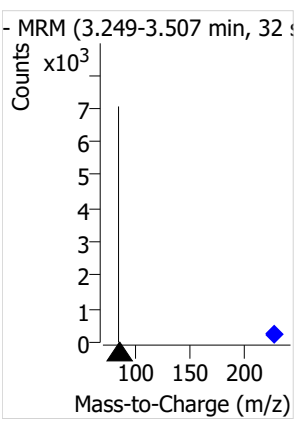

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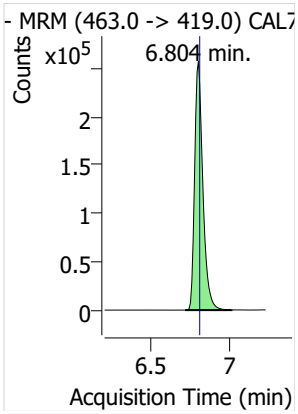

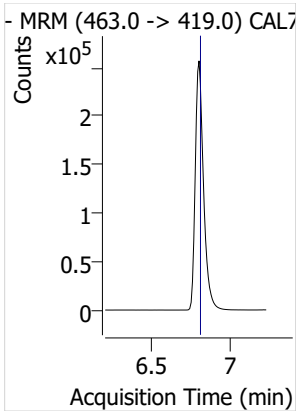

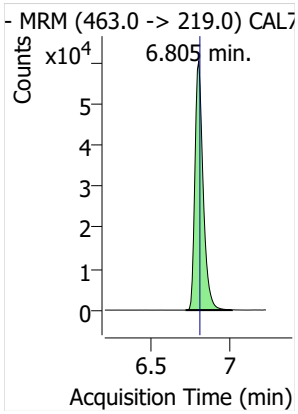

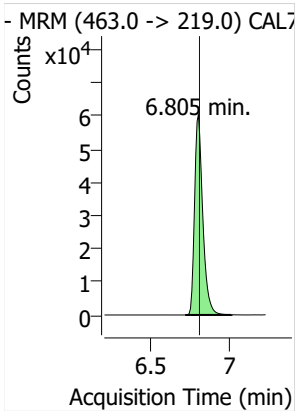

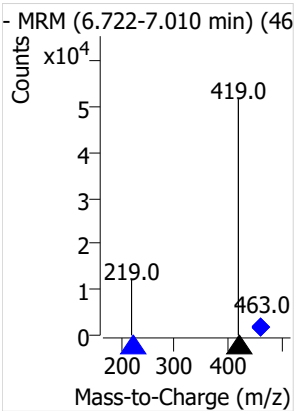

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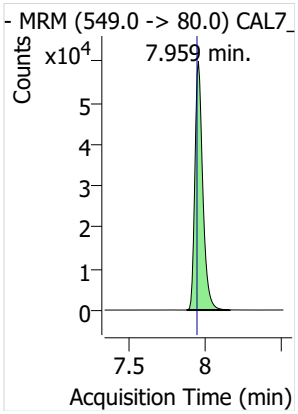

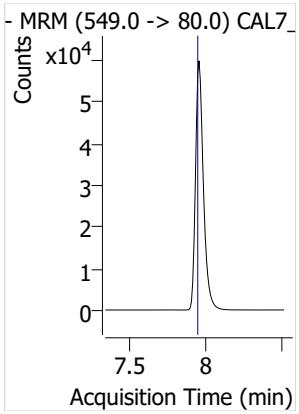

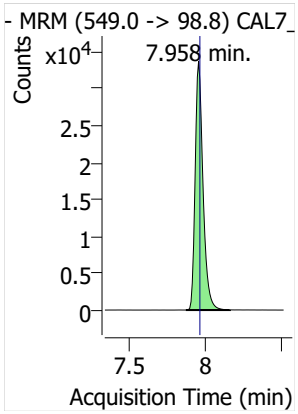

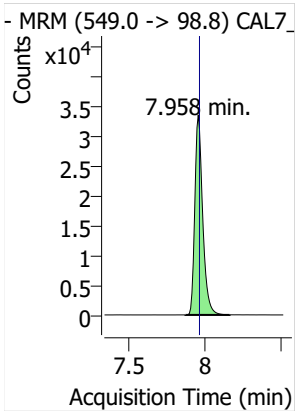

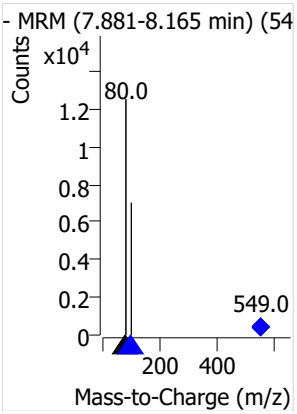

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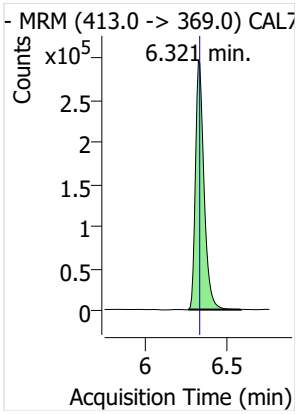

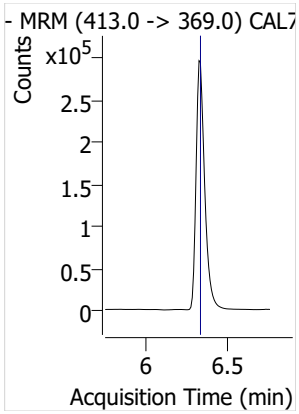

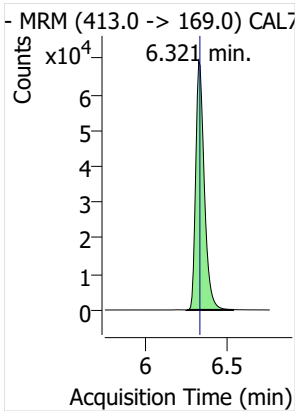

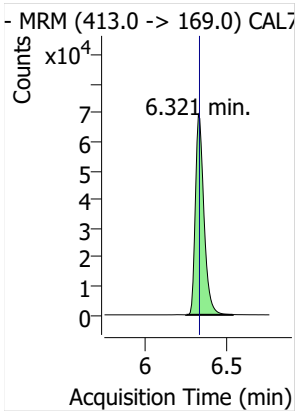

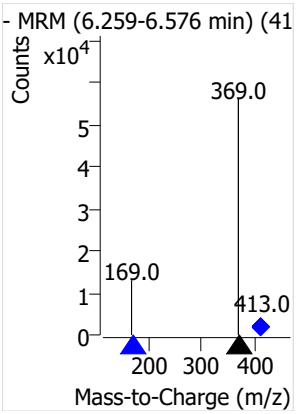

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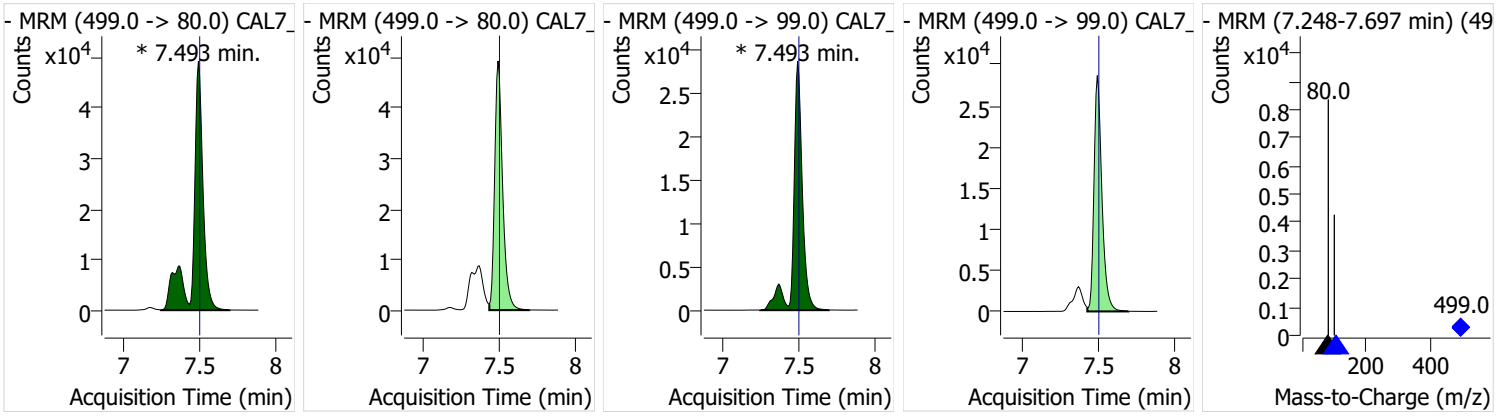

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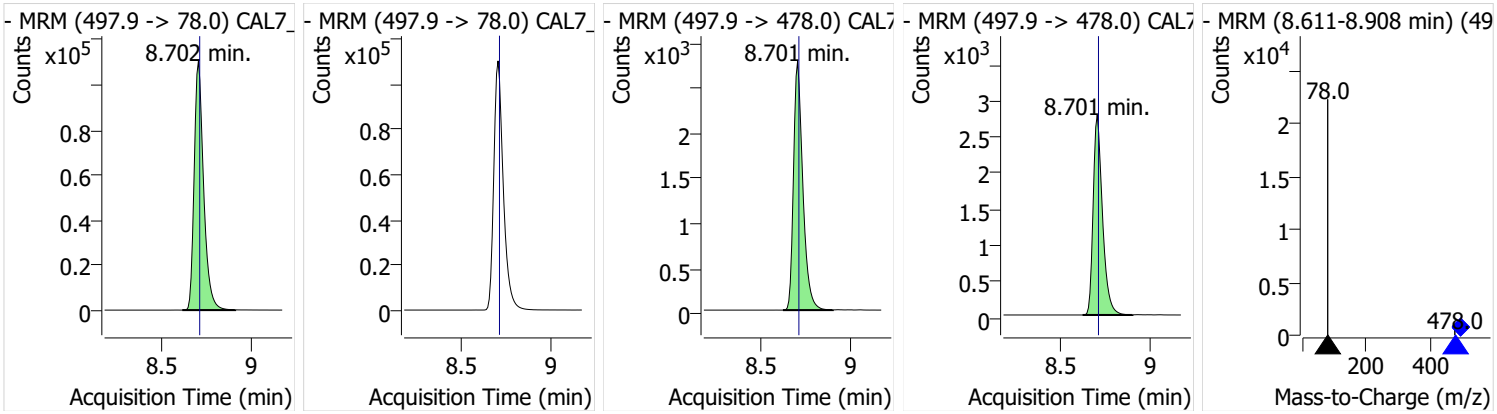
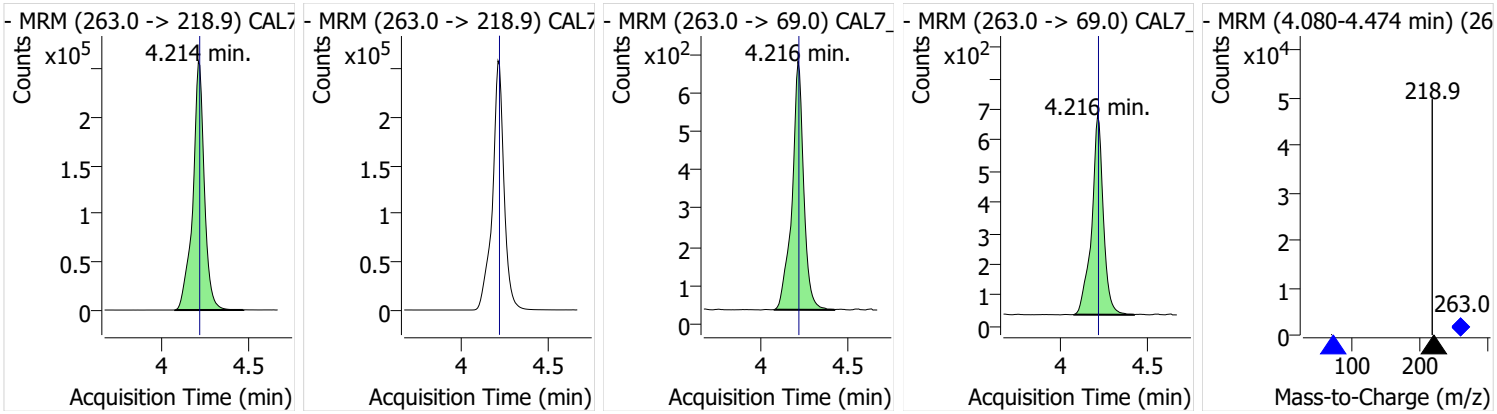


PFPeA



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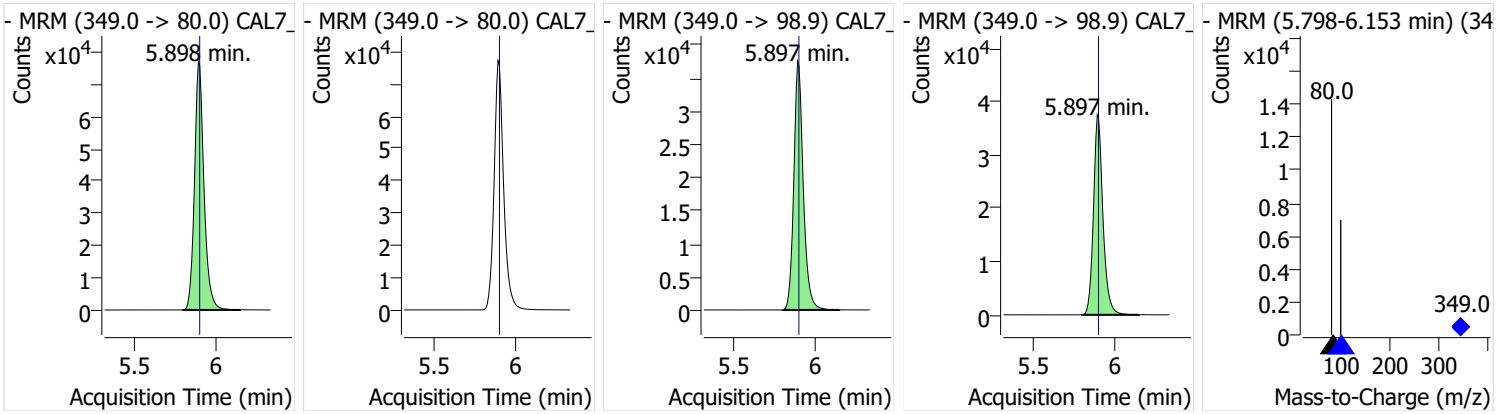

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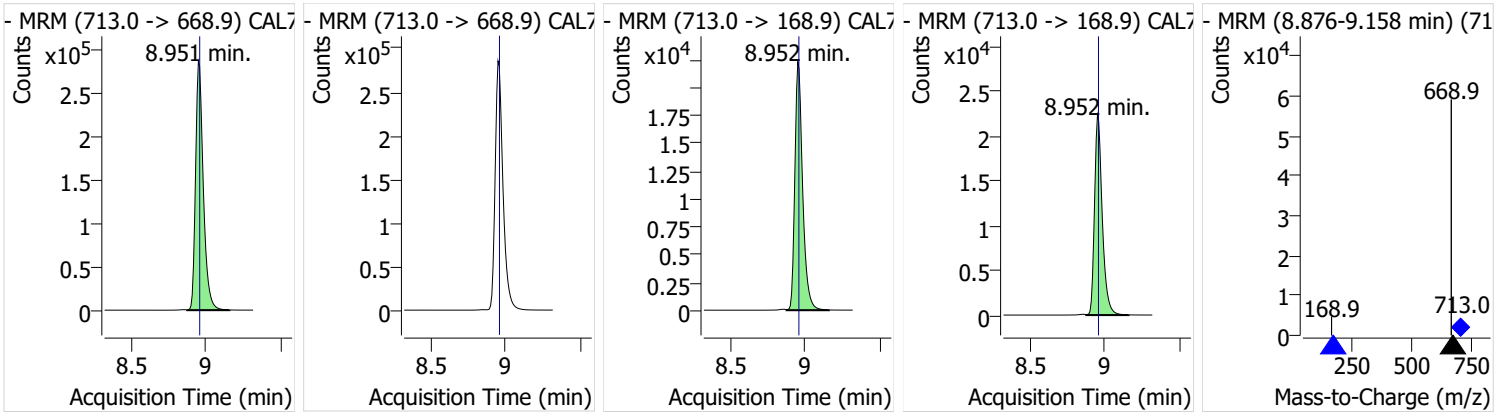

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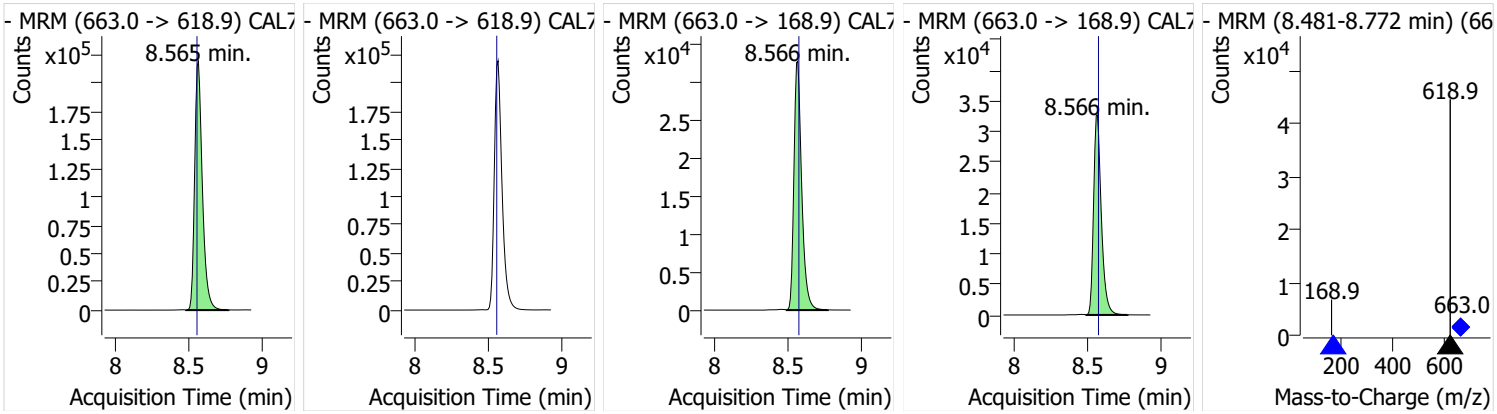
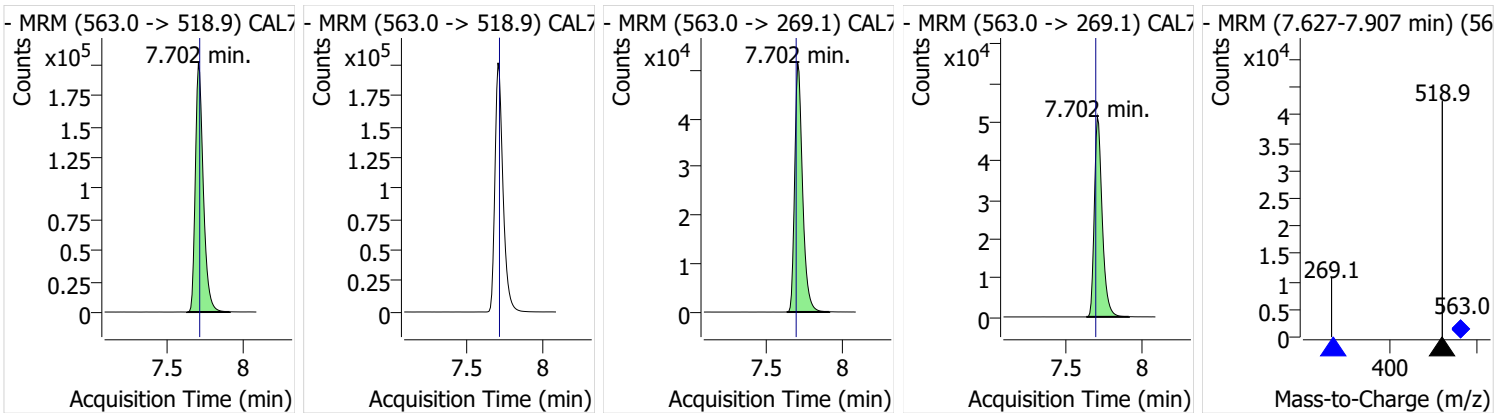


PFUnA



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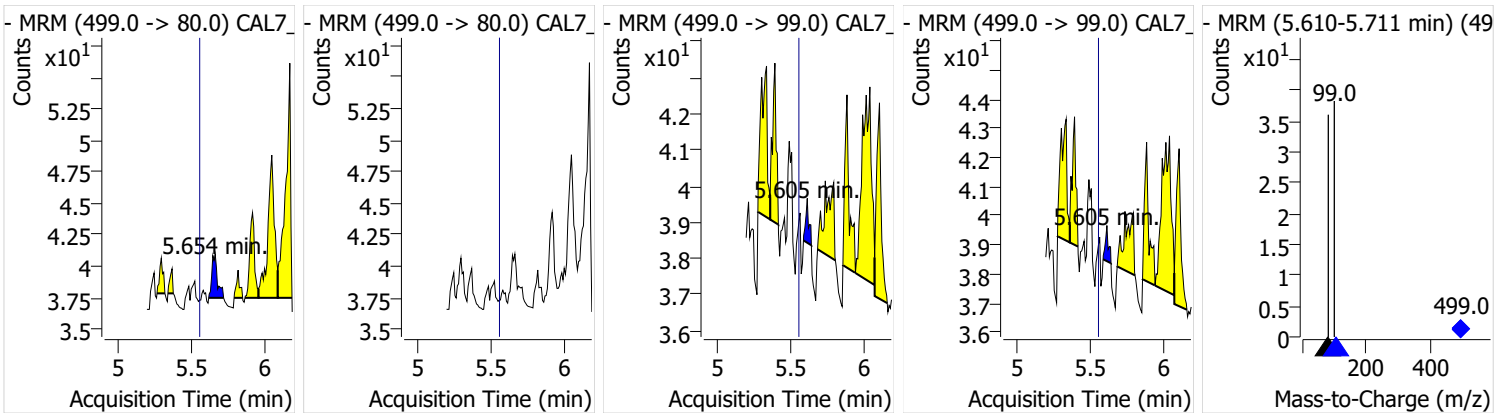
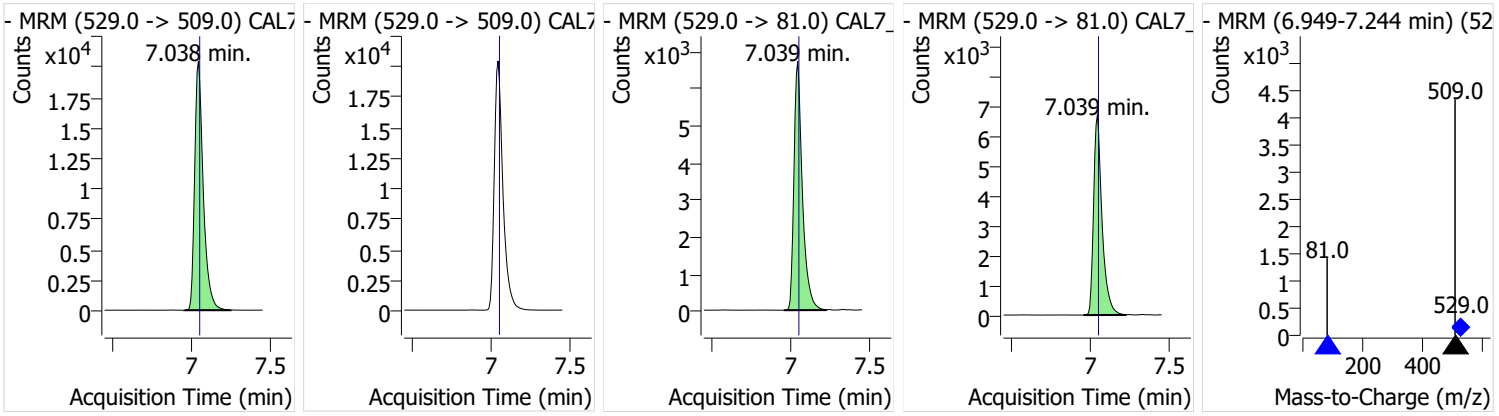
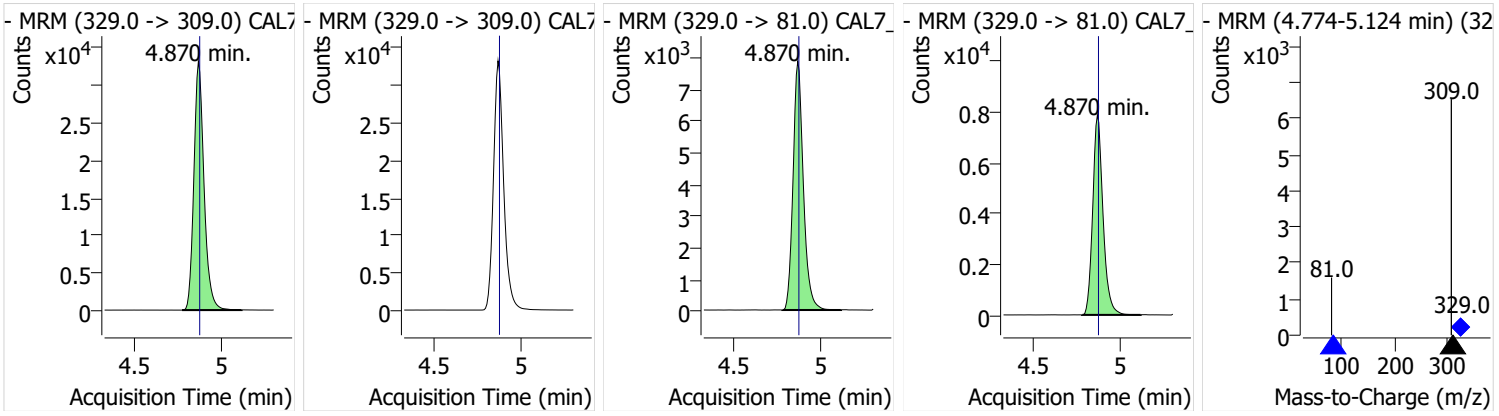


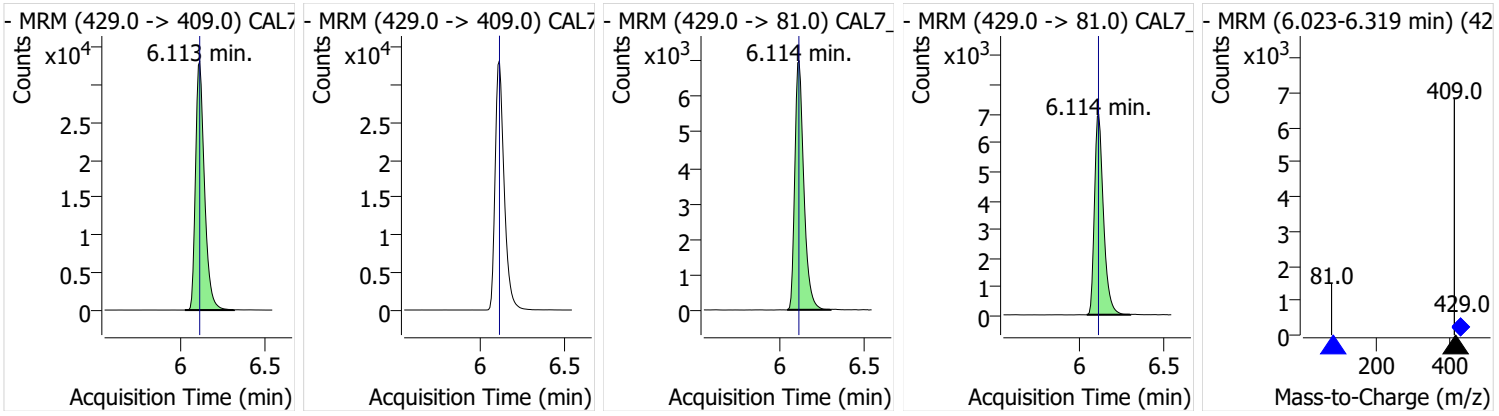
13C2-8:2FTS



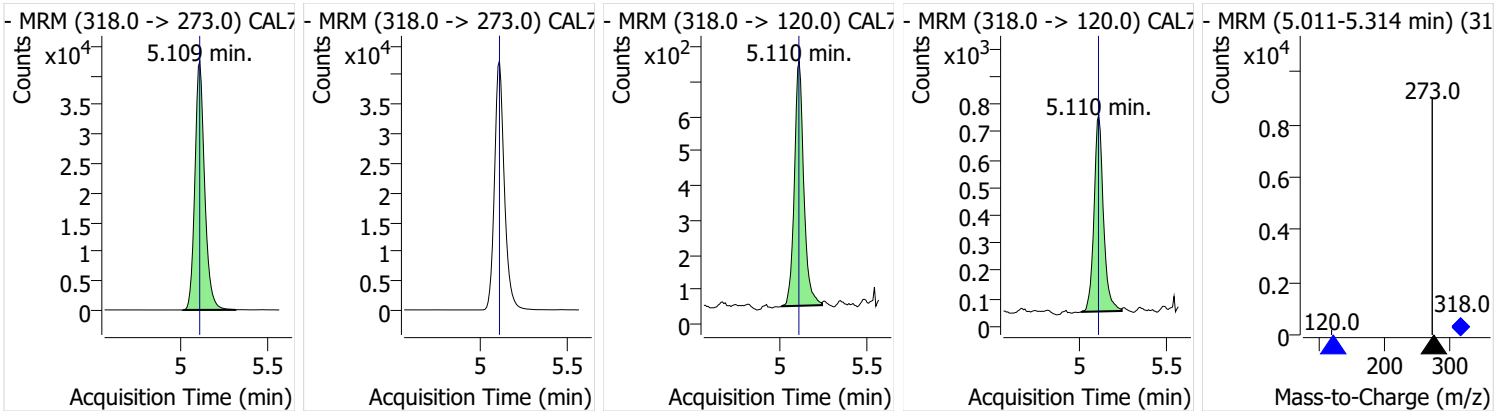
13C2-4:2FTS



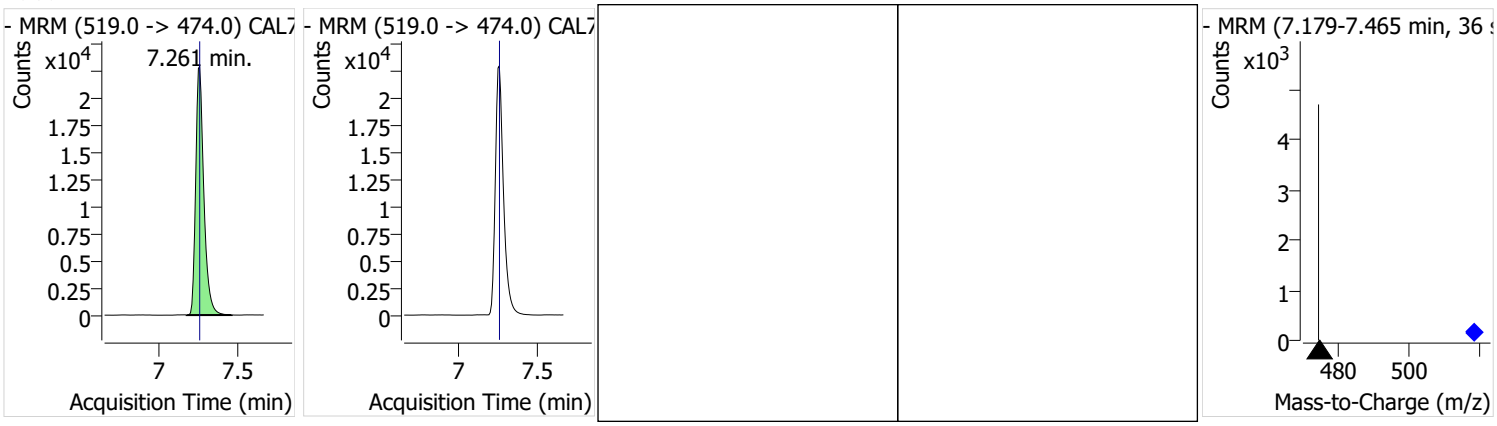
13C2-6:2FTS



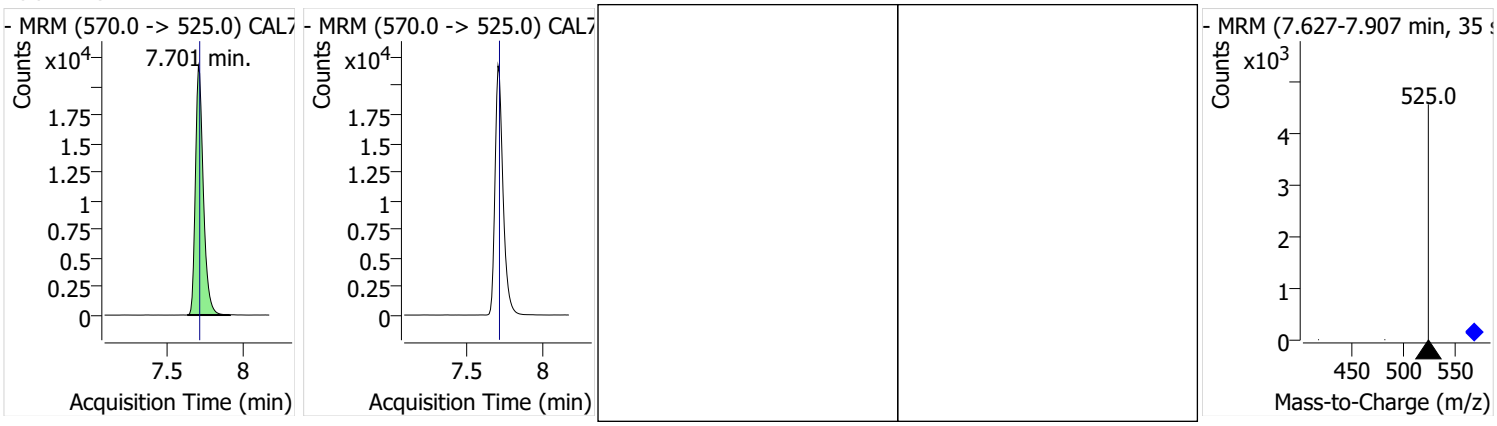
13C5-PFHxA



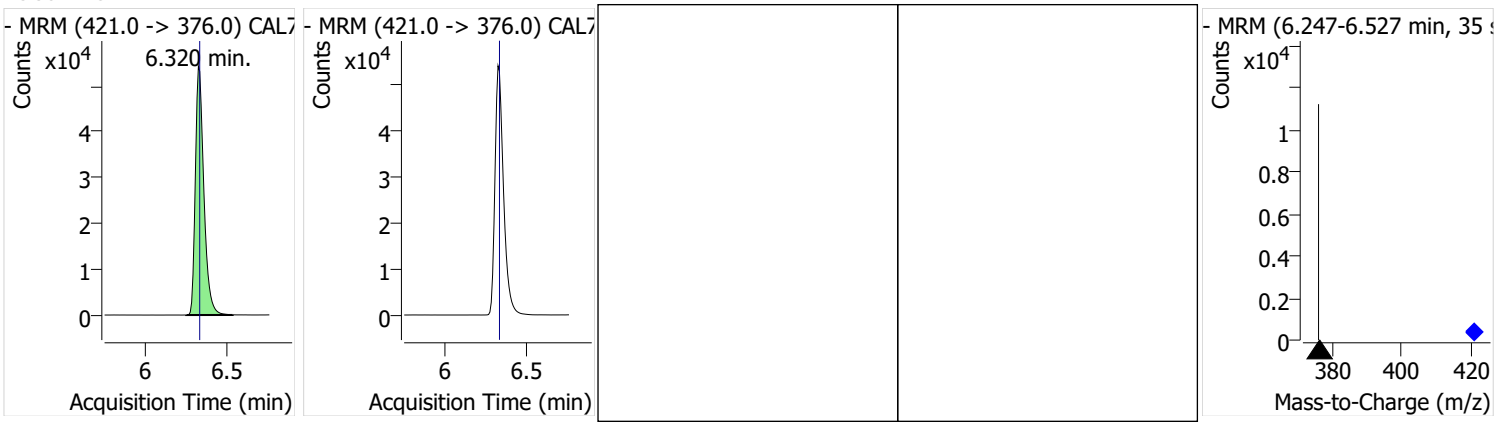
13C6-PFDA



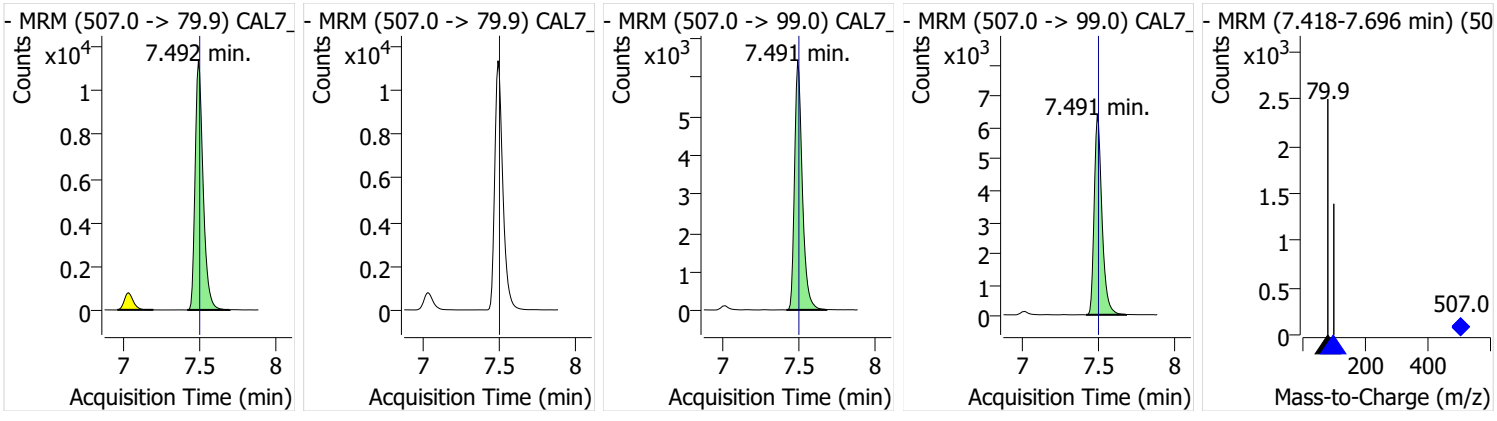
13C7-PFUnA



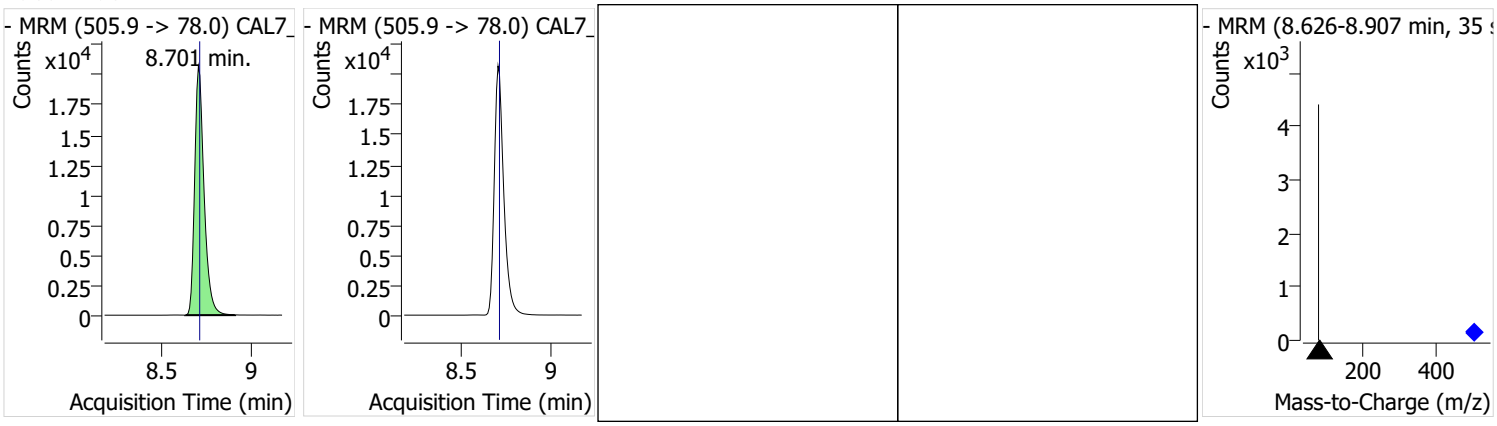
13C8-PFOA



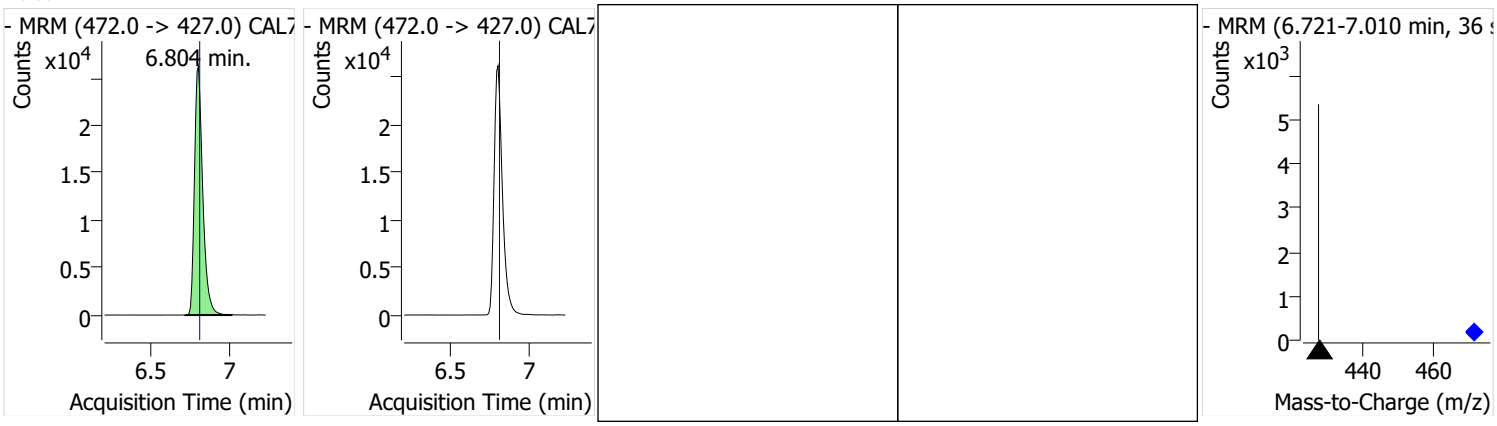
13C8-PFOS



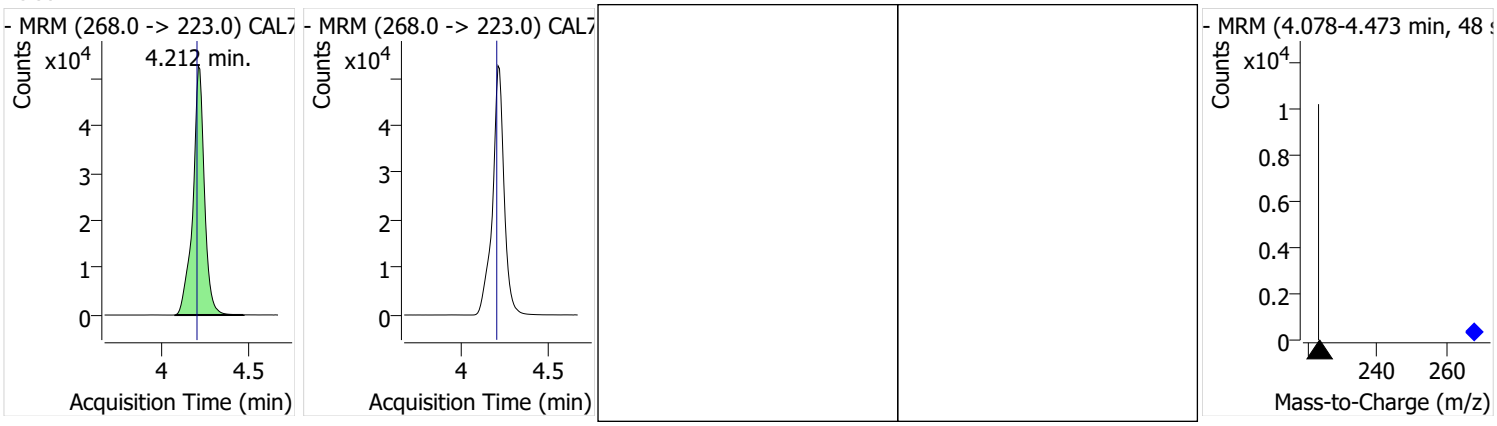
13C8-PFOSA



13C9-PFNA



13C5-PFPeA



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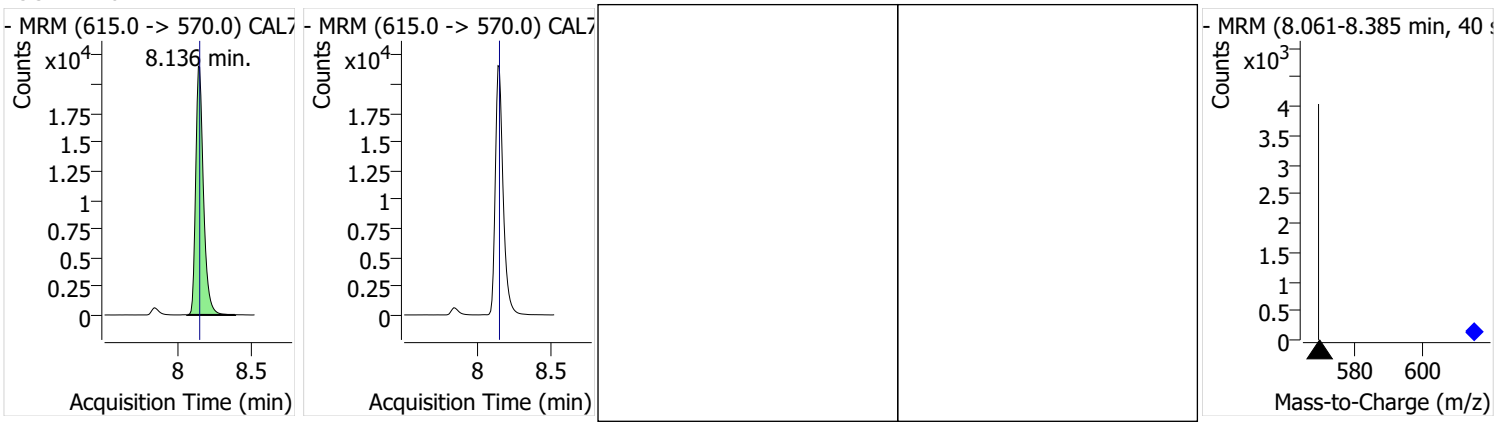

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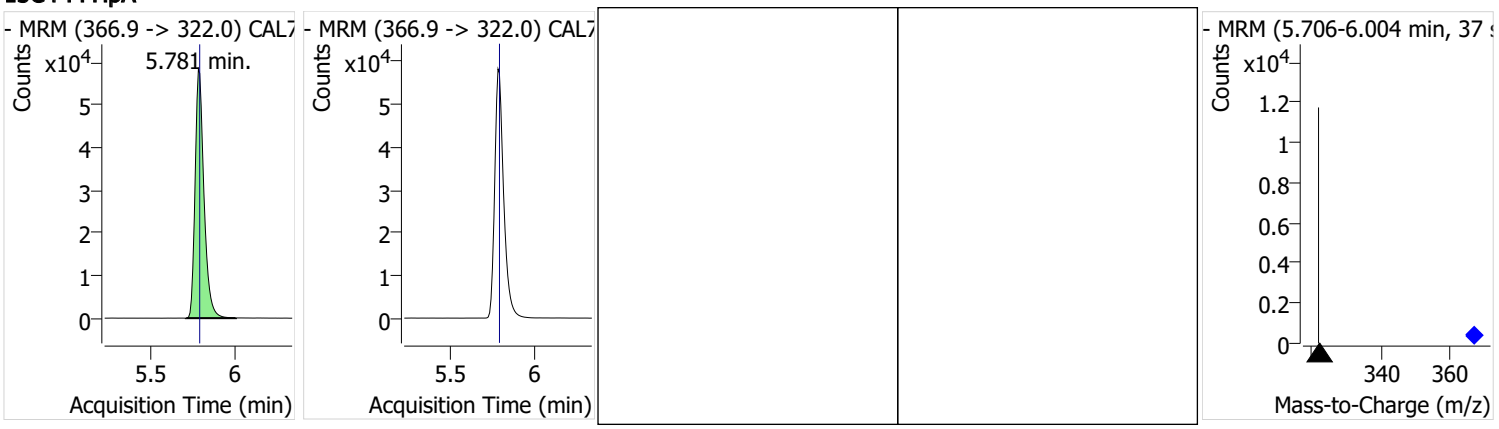

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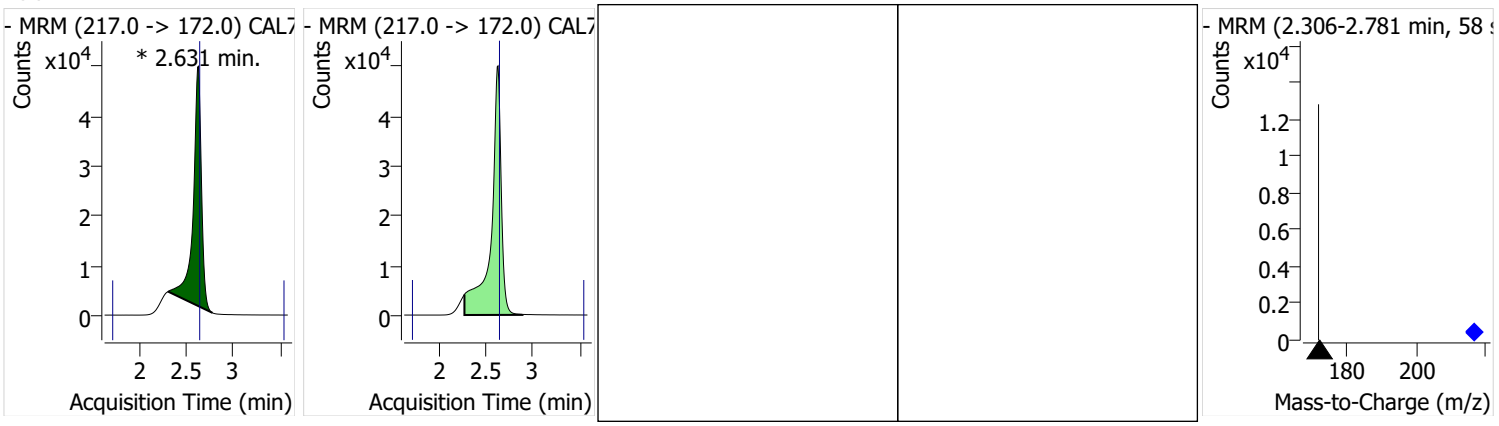

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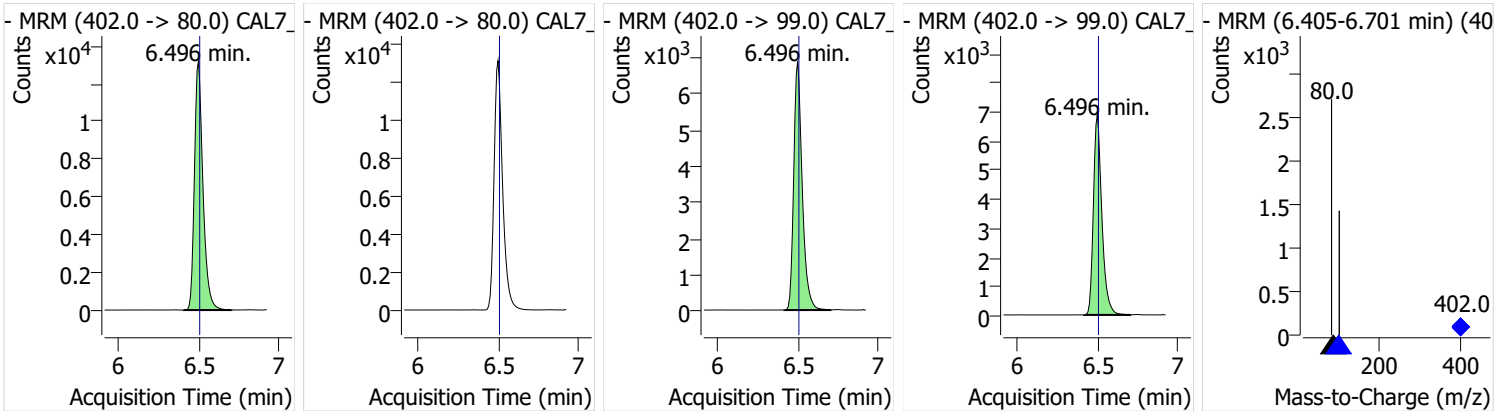
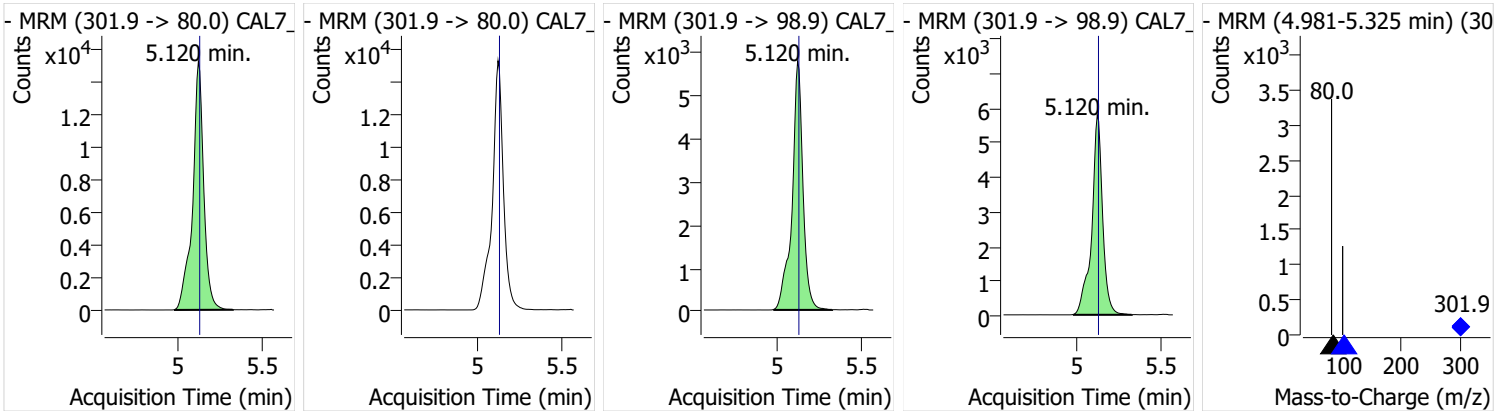
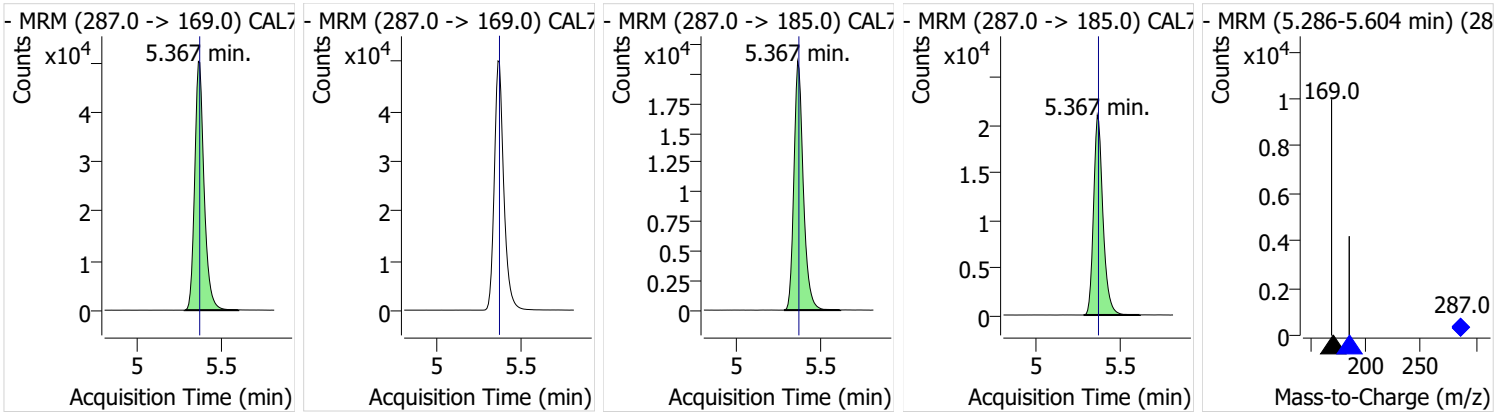


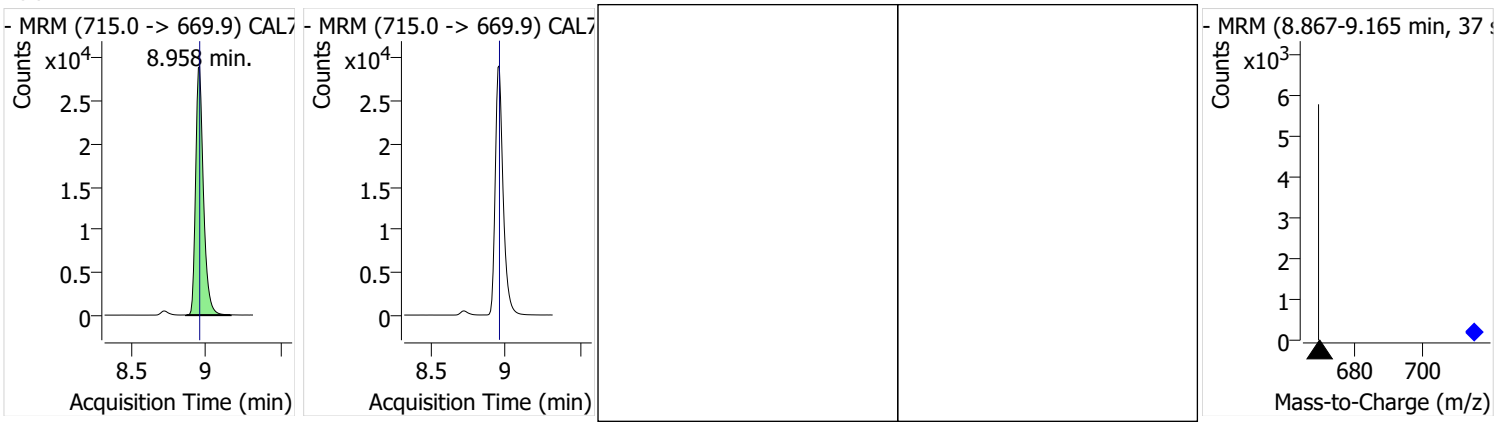
13C3-PFBS



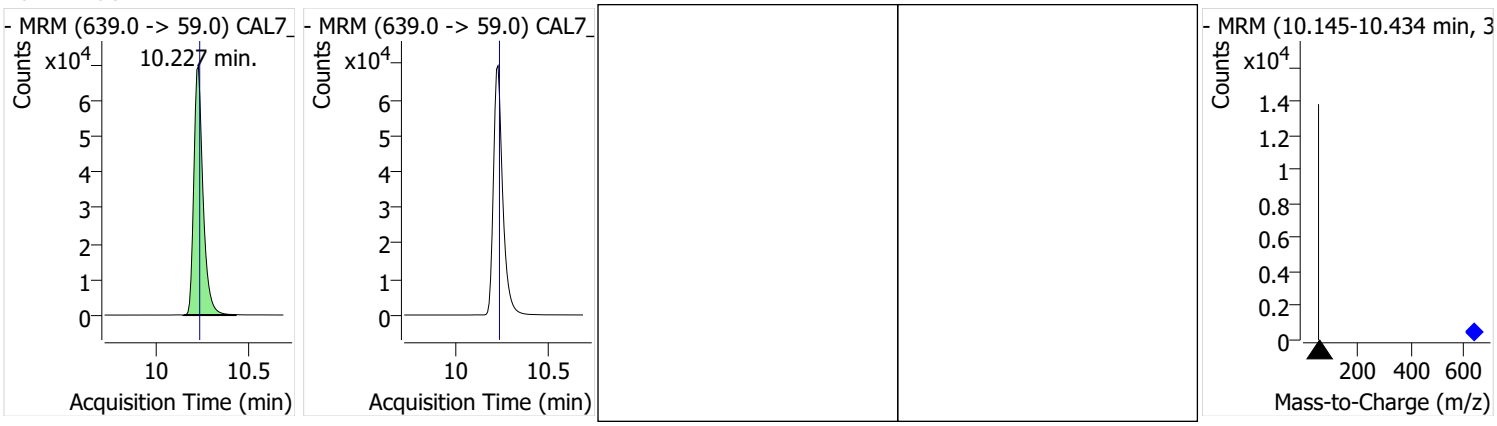
13C3-HFPODA



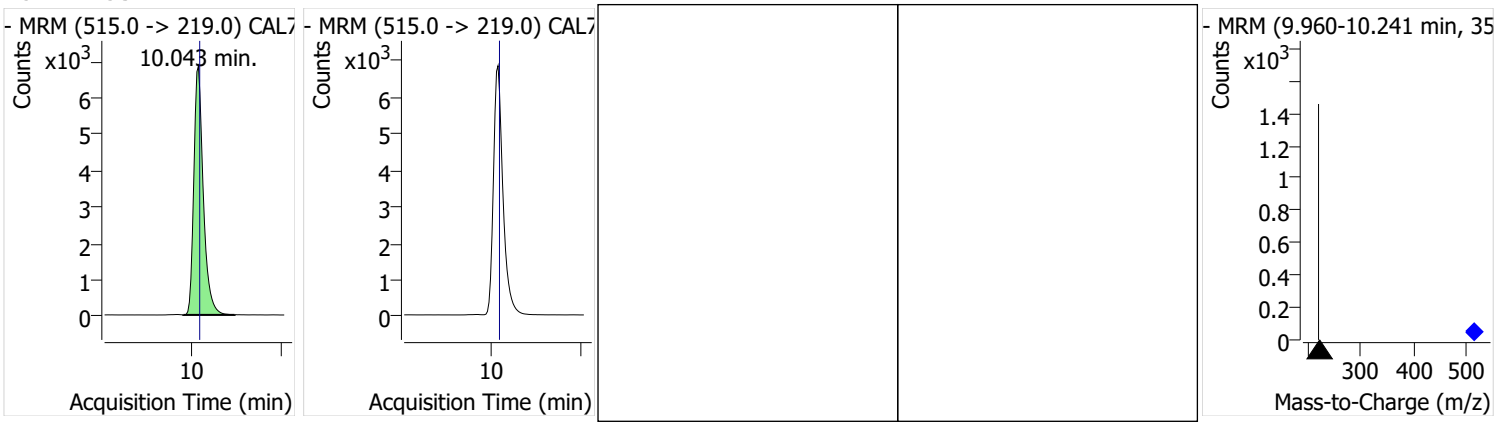
13C2-PFTeDA



D9-NEtFOSE



D3-NMeFOSA



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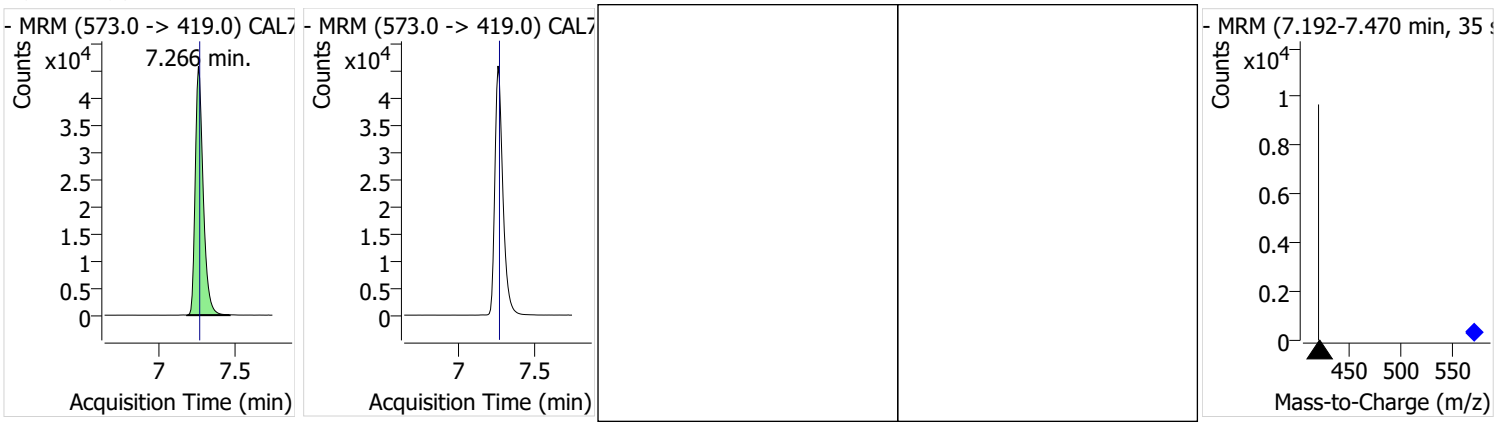

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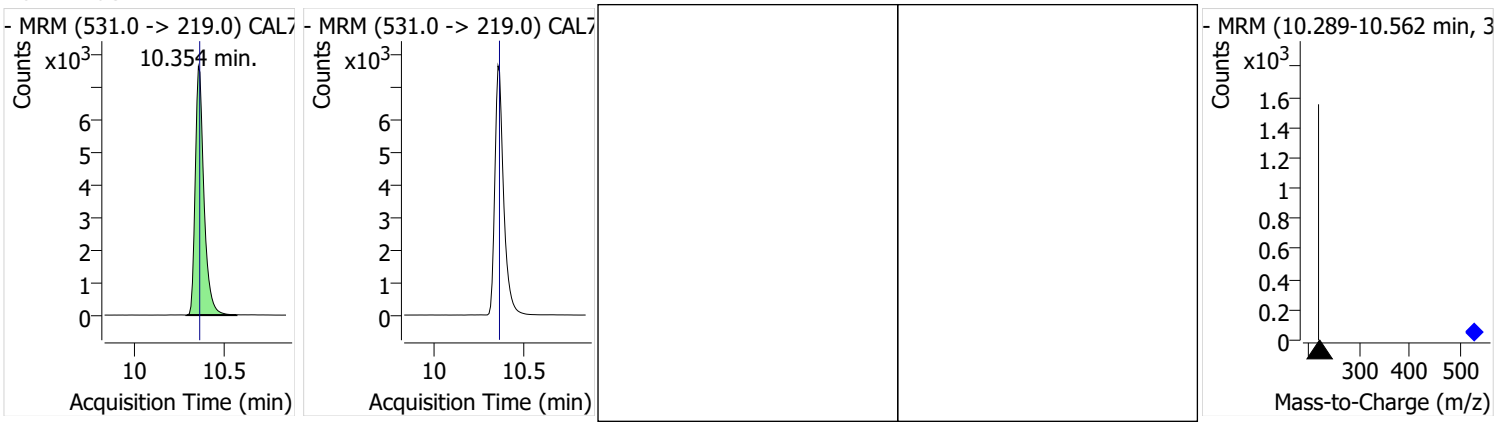

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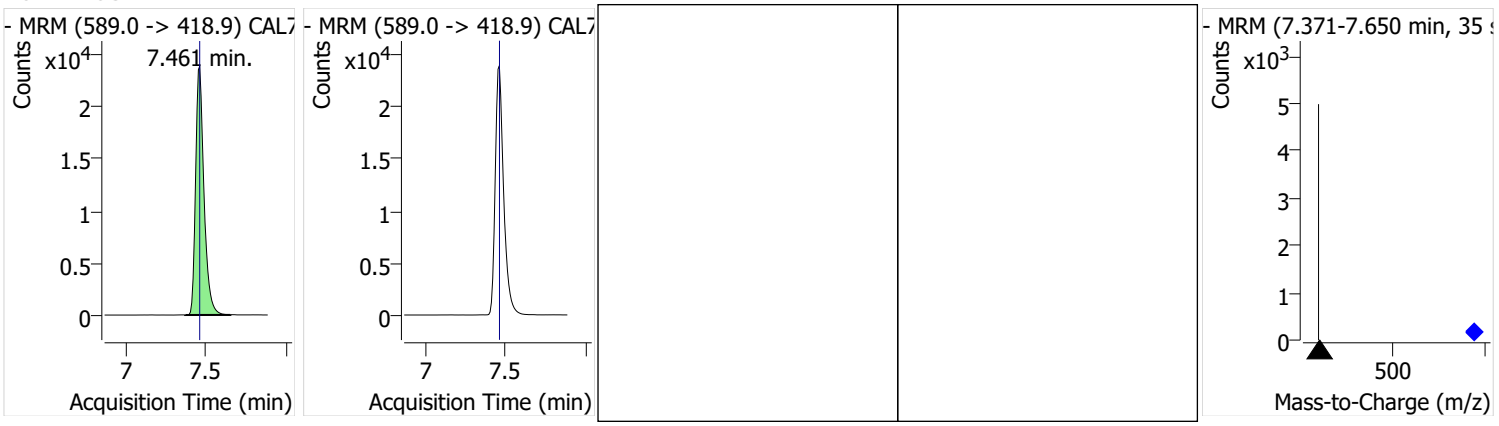

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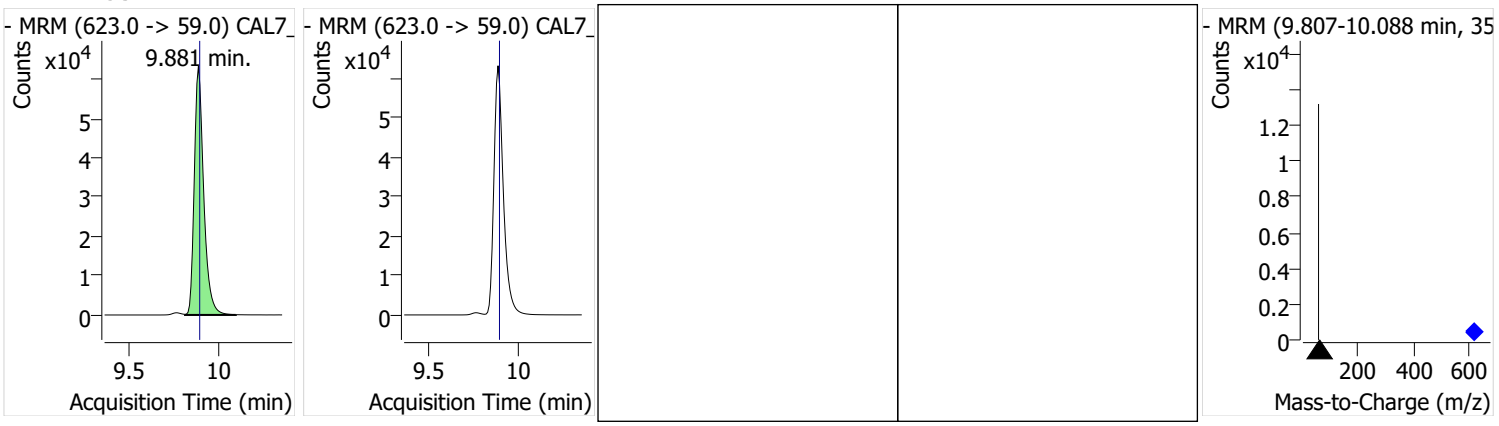

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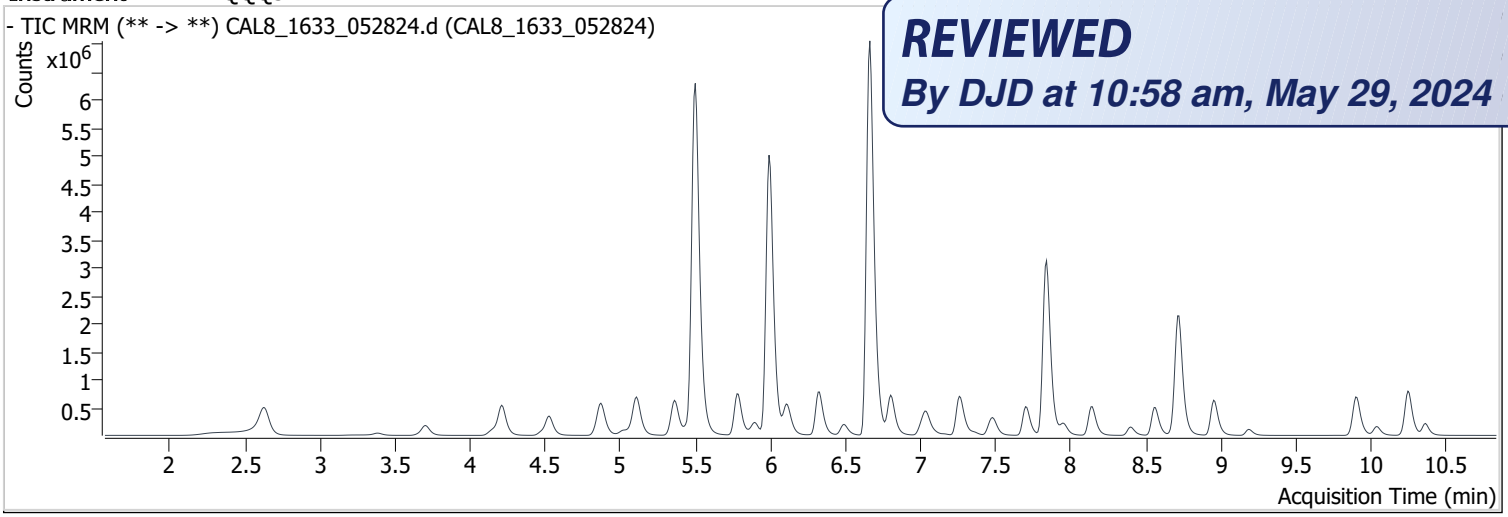
Acq. Time	5/28/2024 11:45 AM	**Data File**	CAL8_1633_052824.d
Sample Type	Cal	**Sample Name**	CAL8_1633_052824
Dilution	1	**Acq. Method**	1633_ACQUISITION.m
Sample Comment	E#24E0161	**Processing method**	1633_050624.m
Instrument	QQQ5		



REVIEWED
By DJD at 10:58 am, May 29, 2024

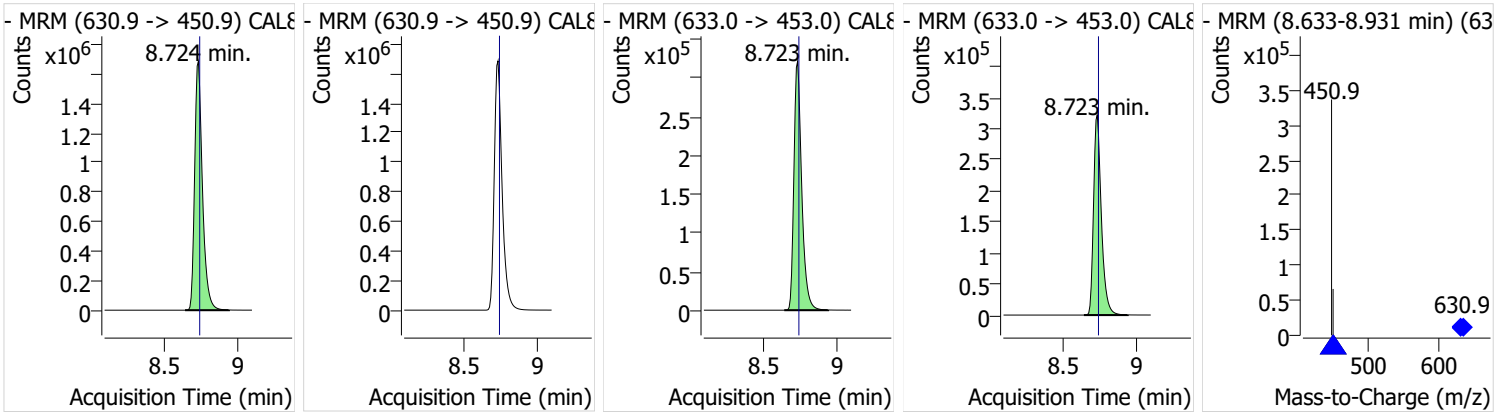
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
11Cl-PF3OUdS	8.724	6181458	959444.38		13C3-HFPODA - ISTD	5.367	167915	97.3506	ng/ml			
633.0 -> 453.0			206087.85	19.1								
3:3FTCA	3.707	527655	307290.29		13C5-PFPeA - ISTD	4.212	226801	264.7206	ng/ml			
241.0 -> 117.0			44803.57	51.0								
4:2FTS	4.871	1647806	597410.05		13C2-4:2FTS - ISTD	4.870	28631	91.4639	ng/ml			
327.0 -> 80.9			121176.12	35.0								
5:3FTCA	5.501	10449291	966546.65		13C5-PFHxA - ISTD	5.101	155145	1311.5231	ng/ml			
341.0 -> 217.0			962051.39	89.4								
6:2FTS	6.114	1252139	373029.68		13C2-6:2FTS - ISTD	6.114	24355	90.4294	ng/ml			
427.0 -> 80.9			109746.42	36.5								
7:3FTCA	6.666	13538289	10020.30		13C5-PFHxA - ISTD	5.101	155145	1356.8378	ng/ml			
441.0 -> 317.0			5237.54	91.4								
8:2FTS	7.039	757247	7846617.10		13C2-8:2FTS - ISTD	7.039	23259	90.6794	ng/ml			
527.0 -> 81.0			77812.65	57.6								
9Cl-PF3ONS	7.843	9134088	603659.53		13C3-HFPODA - ISTD	5.367	167915	95.8330	ng/ml			
533.0 -> 353.0			37559.23	25.7								
ADONA	5.995	13202888	1200420.38		13C3-HFPODA - ISTD	5.367	167915	104.6767	ng/ml			
377.0 -> 85.1			535995.74	36.5								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA	5.368	1493948	360508.05		13C3-HFPODA - ISTD	5.367	167915	104.2105	ng/ml			
285.0 -> 184.9			40974.76	46.9								
NEtFOSA	10.364	319543	167782.69		D5-NEtFOSA - ISTD	10.354	23338	25.8662	ng/ml			
526.0 -> 219.0			500659.62	98.9								
NEtFOSAA	7.461	427794	12217.70		D5-NEtFOSAA - ISTD	7.461	79331	25.5044	ng/ml	✔	3	AMS 05/29/24
584.0 -> 526.0			2158.58	64.1								
NEtFOSE	10.245	2668644	473328.68		D9-NEtFOSE - ISTD	10.219	229816	252.8583	ng/ml			
NFDHA	5.023	209156	66288.28		13C5-PFHxA - ISTD	5.101	155145	48.1232	ng/ml			
295.0 -> 85.0			45777.43	29.9								
NMeFOSA	10.044	272100	97898.61		D3-NMeFOSA - ISTD	10.043	23080	25.1182	ng/ml			
512.0 -> 219.0			129907.86	92.1								
NMeFOSAA	7.275	297279	34369.54		D3-NMeFOSAA - ISTD	7.266	155416	26.2263	ng/ml	✔	3	AMS 05/29/24
570.0 -> 418.9			24908.77	60.1								
NMeFOSE	9.899	2406139	691930.18		D7-NMeFOSE - ISTD	9.881	218331	246.0178	ng/ml			
PFBA	2.628	2414992	78457.77		13C4-PFBA - ISTD	2.631	262180	101.7200	ng/ml	✔	3	AMS 05/29/24
PFBS	5.121	682739	68179.99		13C3-PFBS - ISTD	5.120	63274	22.8430	ng/ml			
298.9 -> 98.8			68667.94	40.5								
PFDA	7.262	1573186	25552.69		13C6-PFDA - ISTD	7.261	79344	25.3114	ng/ml			
513.0 -> 219.0			111828.72	21.5								
PFDoA	8.145	1541635	56985.36		13C2-PFDoA - ISTD	8.136	76182	25.2014	ng/ml			
613.0 -> 319.0			30322.14	17.4								
PFDoS	9.189	233289	90460.06		13C8-PFOS - ISTD	7.492	40045	23.8726	ng/ml			
698.9 -> 99.0			94769.34	65.7								
PFDS	8.403	333602	73744.59		13C8-PFOS - ISTD	7.492	40045	23.8146	ng/ml			
599.0 -> 98.8			85722.88	59.0								
PFEESA	5.503	3979325	681282.85		13C5-PFHxA - ISTD	5.101	155145	43.7371	ng/ml			
315.0 -> 83.0			48029.57	7.0								
PFHpA	5.781	2173340	69923.65		13C4-PFHpA - ISTD	5.781	206658	25.3996	ng/ml			
362.9 -> 169.0			38888.95	15.3								
PFHpS	7.011	456067	49004.19		13C8-PFOS - ISTD	7.492	40045	23.7002	ng/ml			
449.0 -> 98.8			69053.26	51.7								

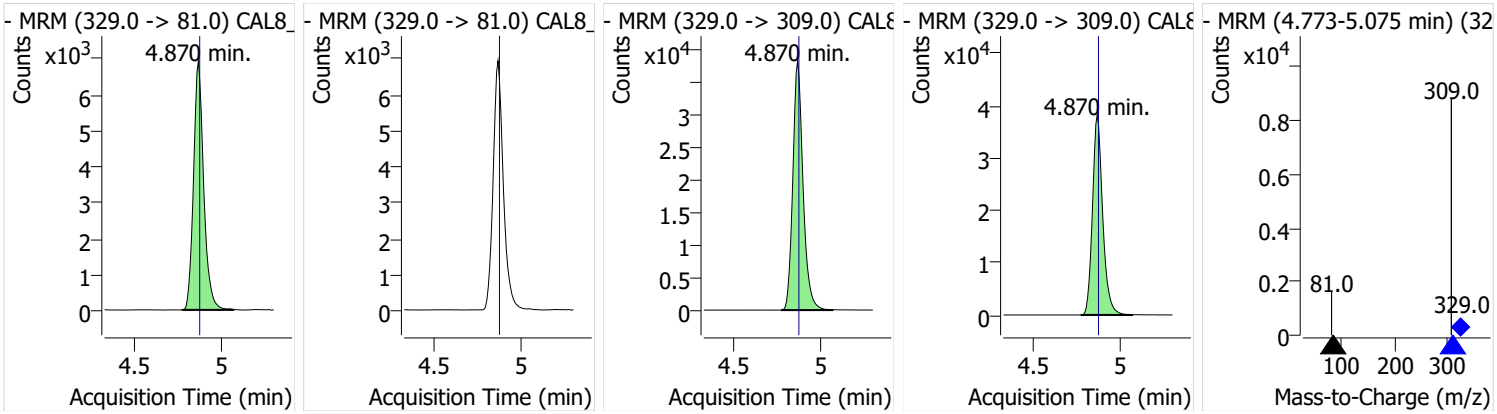
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFHxA	5.103	1524141	59932.18		13C5-PFHxA - ISTD	5.101	155145	25.0706	ng/ml			
313.0 -> 118.9			4518.16	3.0								
PFHxS	6.497	491999	1699.91		13C3-PFHxS - ISTD	6.496	45373	22.7349	ng/ml	✔	3	AMS 05/29/24
398.9 -> 99.0			7867.33	47.8								
PFMBA	4.530	1515931	850126.02		13C5-PFPeA - ISTD	4.212	226801	50.7664	ng/ml			
PFMPA	3.382	161220	3835.92		13C5-PFPeA - ISTD	4.212	226801	51.0005	ng/ml	✔	3	AMS 05/29/24
PFNA	6.804	1766509	46270.98		13C9-PFNA - ISTD	6.804	89040	25.1832	ng/ml			
463.0 -> 219.0			51115.27	23.6								
PFNS	7.959	416843	57259.05		13C8-PFOS - ISTD	7.492	40045	24.1687	ng/ml			
549.0 -> 98.8			60790.91	55.2								
PFOA	6.329	2044468	7312.51		13C8-PFOA - ISTD	6.320	184490	24.1335	ng/ml			
413.0 -> 169.0			123327.49	23.6								
PFOS	7.493	443082	2848.56		13C8-PFOS - ISTD	7.492	40045	22.8211	ng/ml	✔	3	AMS 05/29/24
499.0 -> 99.0			20571.75	50.0								
PFOSA	8.702	762039	3393837.91		13C8-PFOSA - ISTD	8.701	70765	24.9983	ng/ml			
497.9 -> 478.0			15129.77	2.5								
PFPeA	4.214	2269318	91589.83		13C5-PFPeA - ISTD	4.212	226801	50.7829	ng/ml			
263.0 -> 69.0			2878.53	0.2								
PFPeS	5.898	587517	29982.65		13C3-PFHxS - ISTD	6.496	45373	23.9027	ng/ml			
349.0 -> 98.9			32220.05	49.0								
PFTeDA	8.951	2001456	109974.16		13C2-PFTeDA - ISTD	8.950	102137	25.3091	ng/ml			
713.0 -> 168.9			167342.36	7.7								
PFTrDA	8.557	1598737	80919.55		13C2-PFDoA - ISTD	8.136	76182	25.2417	ng/ml			
663.0 -> 168.9			148123.92	15.1								
PFUnA	7.702	1436588	36100.36		13C7-PFUnA - ISTD	7.701	74063	25.0172	ng/ml			
563.0 -> 269.1			65049.51	24.4								
TDCA	5.474	17	5.20					-	ng/ml			
499.0 -> 99.0			1.63	11.0								
13C2-8:2FTS	7.038	92638	525978.53		18O2-PFHxS	6.495	42780	7.9293	ng/ml			
529.0 -> 81.0			11696.10	25.1								
13C2-4:2FTS	4.870	159547	58267.00		18O2-PFHxS	6.495	42780	7.3258	ng/ml			

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
329.0 -> 81.0			3923.18	17.9								
13C2-6:2FTS	6.113	150076	29522.73		18O2-PFHxS	6.495	42780	7.7528	ng/ml			
429.0 -> 81.0			3667.53	16.2								
13C5-PFHxA	5.101	155145	18794.04		13C2-PFHxA	5.102	142278	2.5736	ng/ml			
318.0 -> 120.0			192.83	1.6								
13C6-PFDA	7.261	79344	5991.10		13C2-PFDA	7.262	76094	1.3095	ng/ml			
13C7-PFUnA	7.701	74063	11723.43		13C2-PFDA	7.262	76094	1.3074	ng/ml			
13C8-PFOA	6.320	184490	25146.95		13C4-PFOA	6.329	20935	2.6933	ng/ml			
13C8-PFOS	7.492	40045	2521.40		13C4-PFOS	7.492	40838	2.6438	ng/ml			
507.0 -> 99.0			3802.04	53.4								
13C8-PFOSA	8.701	70765	171842.11		13C4-PFOS	7.492	40838	2.5855	ng/ml			
13C9-PFNA	6.804	89040	10645.24		13C5-PFNA	6.804	109887	1.3169	ng/ml			
13C5-PFPeA	4.212	226801	17537.79		13C2-PFHxA	5.102	142278	5.0737	ng/ml			
13C2-PFDoA	8.136	76182	7856.58		13C2-PFDA	7.262	76094	1.3030	ng/ml			
13C4-PFHpA	5.781	206658	29062.14		13C2-PFHxA	5.102	142278	2.6278	ng/ml			
13C4-PFBA	2.631	262486	96986.06		13C3-PFBA	2.634	120575	9.9652	ng/ml	✔	3	AMS 05/29/24
13C3-PFHxS	6.496	45373	12872.13		18O2-PFHxS	6.495	42780	2.5844	ng/ml			
402.0 -> 99.0			10437.24	51.9								
13C3-PFBS	5.120	63274	13587.42		18O2-PFHxS	6.495	42780	2.4906	ng/ml			
301.9 -> 98.9			7756.66	37.7								
13C3-HFPODA	5.367	167915	25216.37		13C2-PFHxA	5.102	142278	9.7123	ng/ml			
287.0 -> 185.0			8176.72	44.3								
13C2-PFTeDA	8.950	102137	17921.84		13C2-PFDA	7.262	76094	1.2955	ng/ml			
D9-NEtFOSE	10.219	229816	83236.97		13C4-PFOS	7.492	40838	25.9557	ng/ml			
D3-NMeFOSA	10.043	23080	13232.90		13C4-PFOS	7.492	40838	2.5813	ng/ml			
D3-NMeFOSAA	7.266	155416	25746.45		13C4-PFOS	7.492	40838	5.1209	ng/ml			
D5-NEtFOSA	10.354	23338	7501.23		13C4-PFOS	7.492	40838	2.5640	ng/ml			
D5-NEtFOSAA	7.461	79331	21723.90		13C4-PFOS	7.492	40838	5.2212	ng/ml			
D7-NMeFOSE	9.881	218331	153142.70		13C4-PFOS	7.492	40838	26.3865	ng/ml			

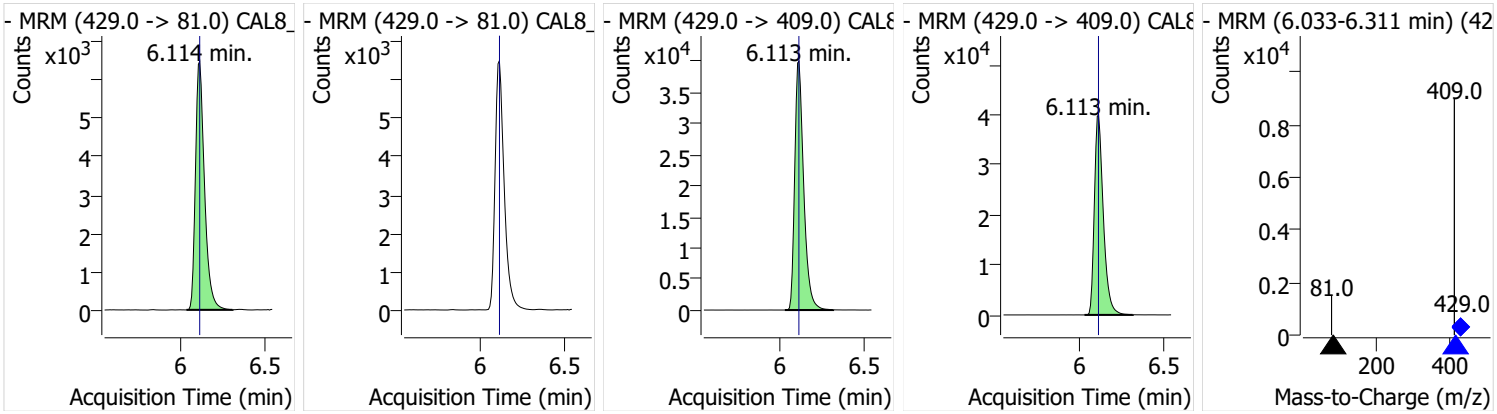
11Cl-PF3OUdS



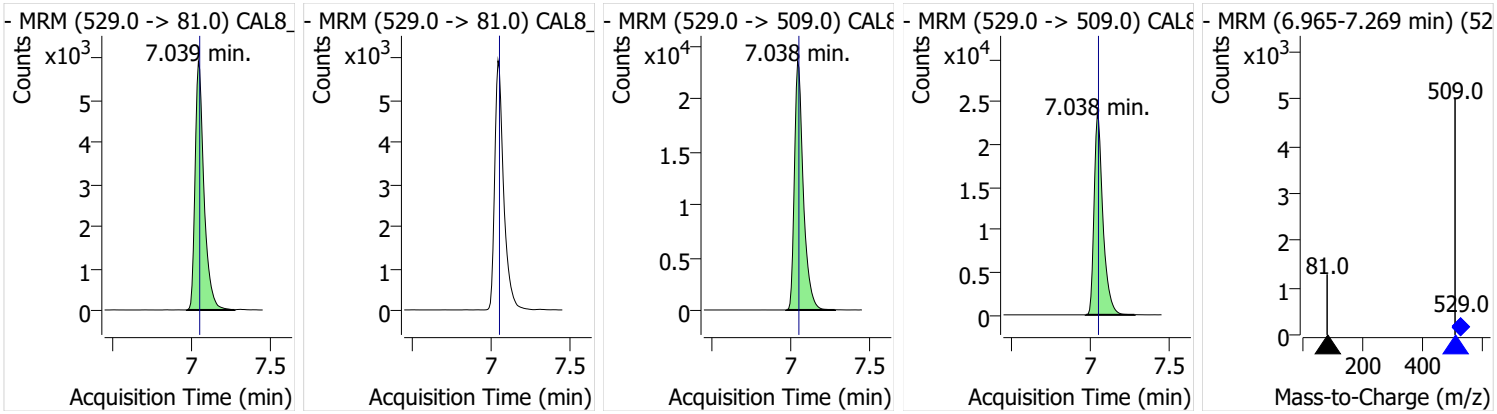
13C2-4:2FTS - ISTD



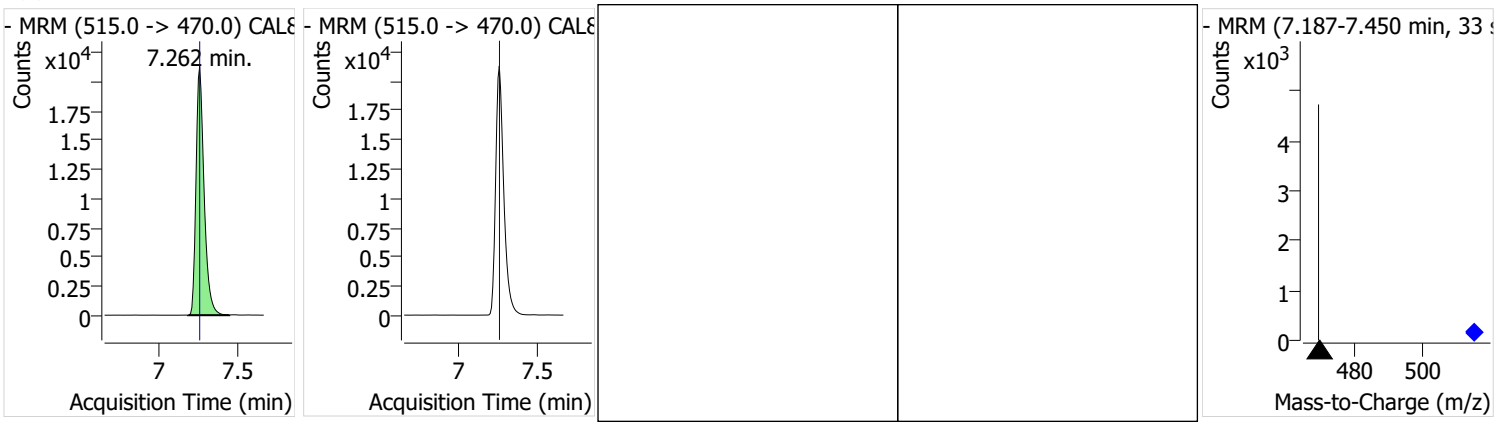
13C2-6:2FTS - ISTD



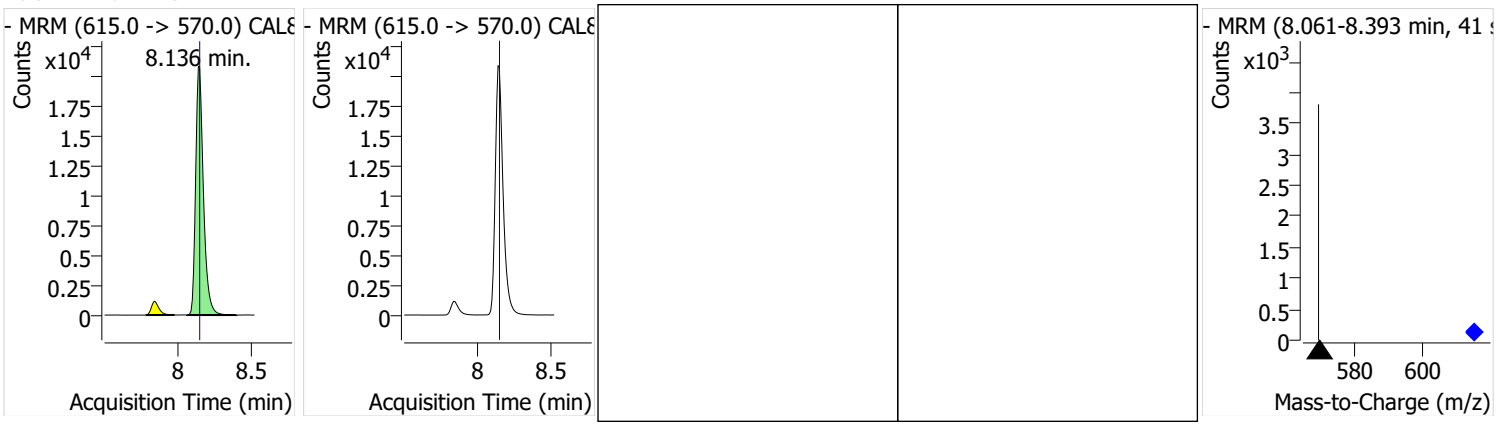
13C2-8:2FTS - ISTD



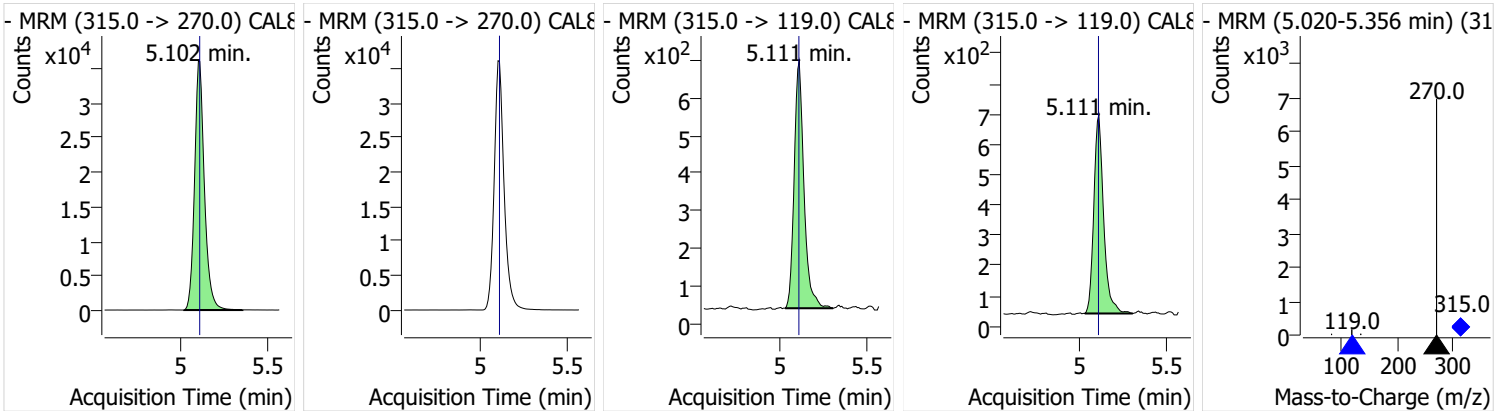
13C2-PFDA



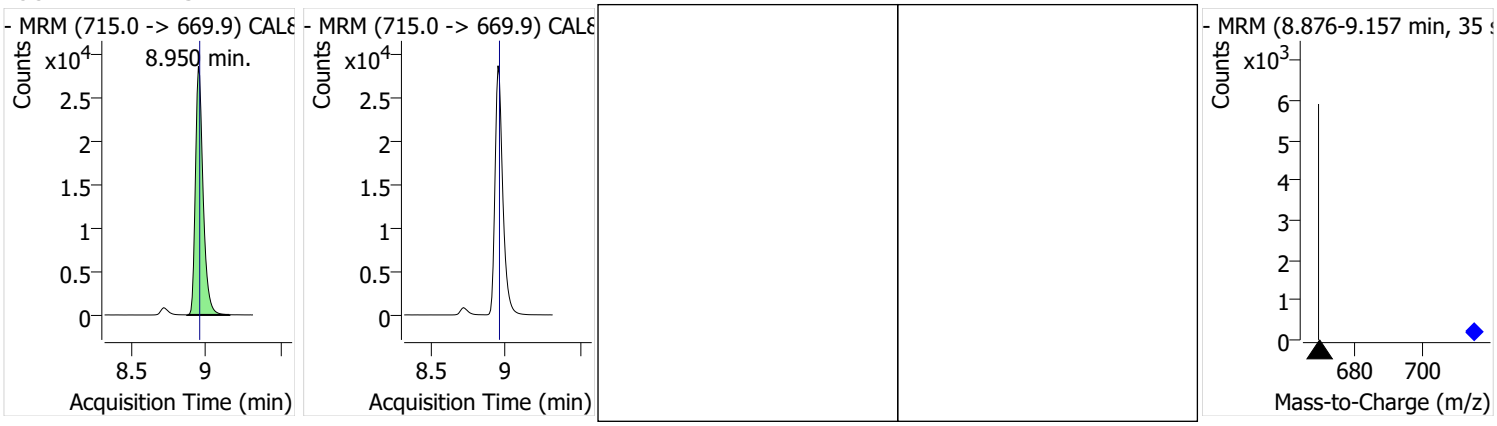
13C2-PFDoA - ISTD



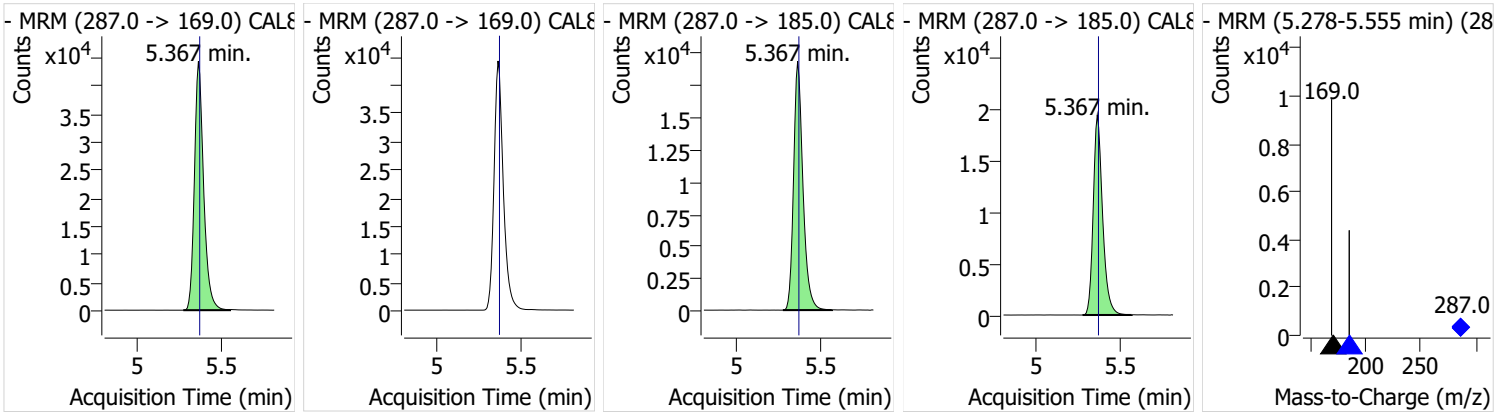
13C2-PFHxA



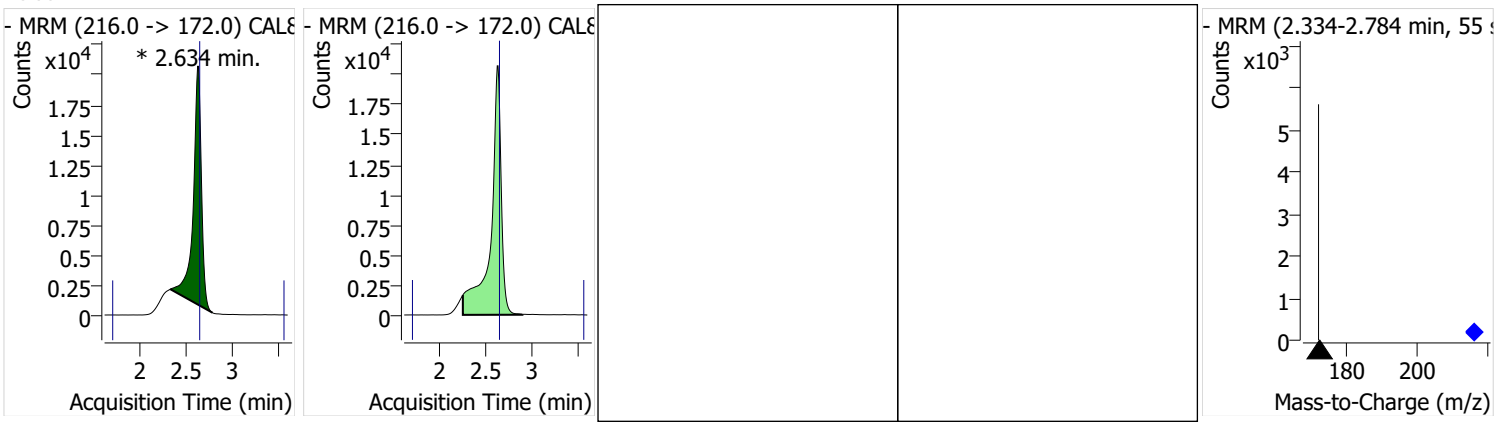
13C2-PFTeDA - ISTD



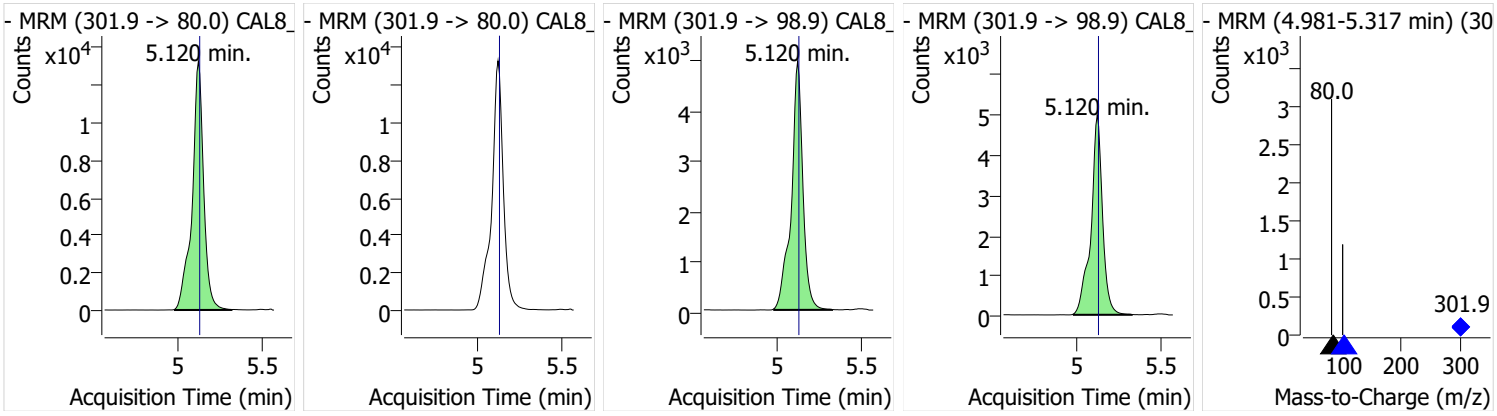
13C3-HFPODA - ISTD



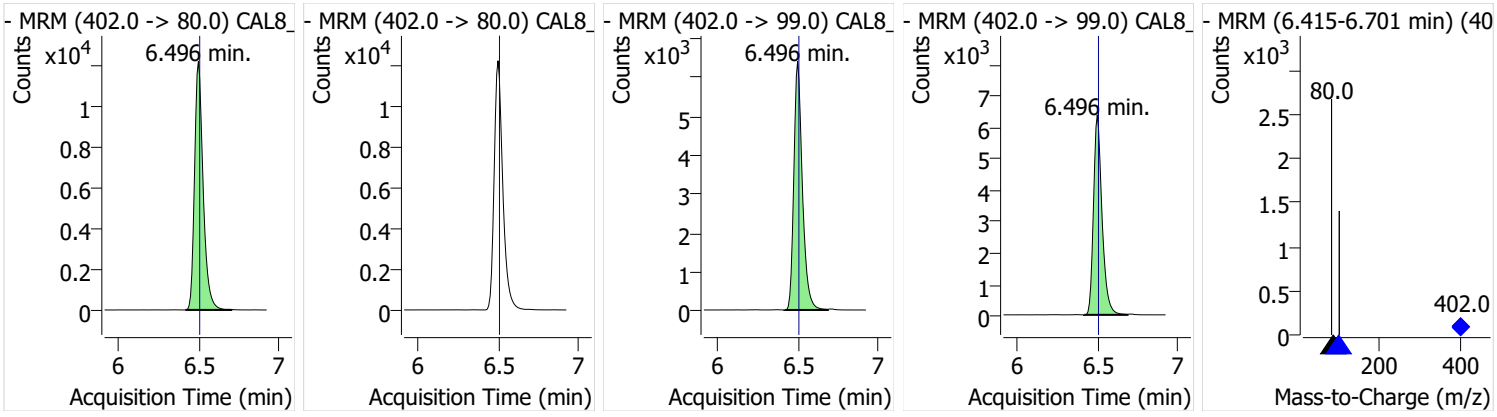
13C3-PFBA



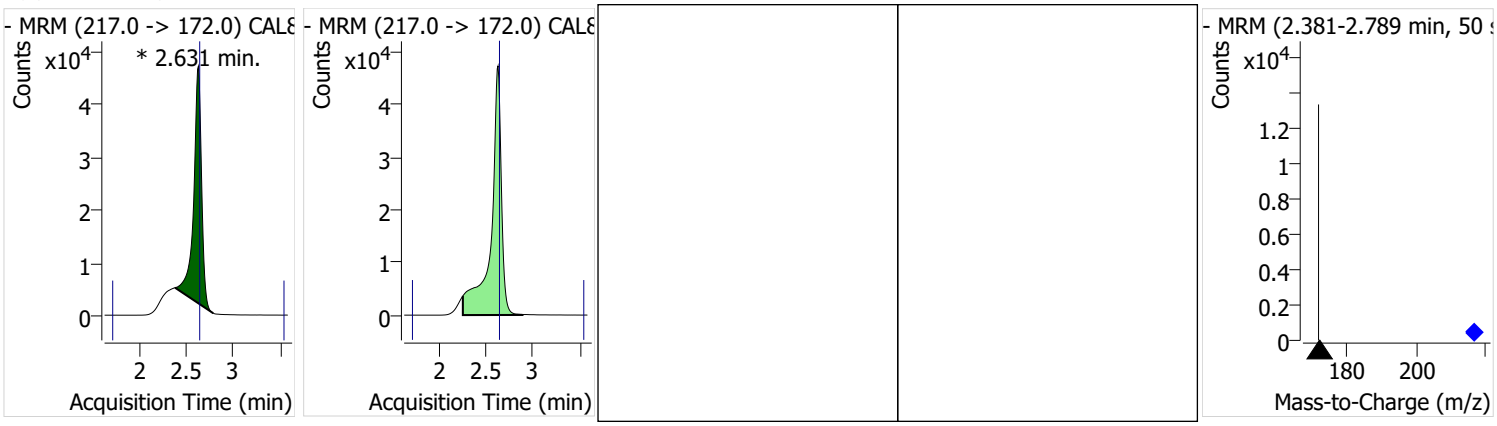
13C3-PFBS - ISTD



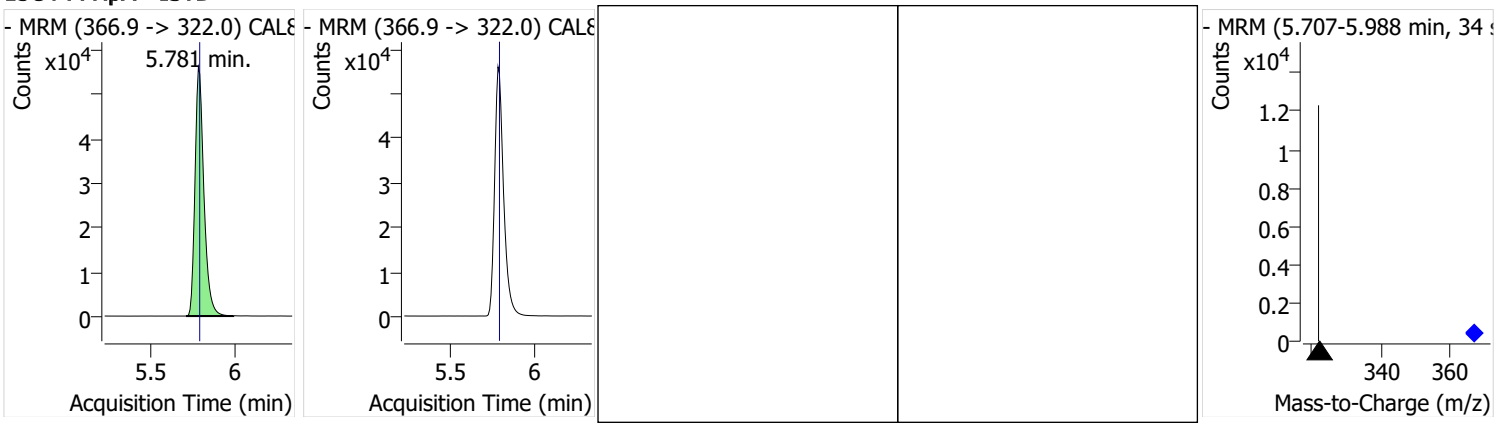
13C3-PFHxS - ISTD



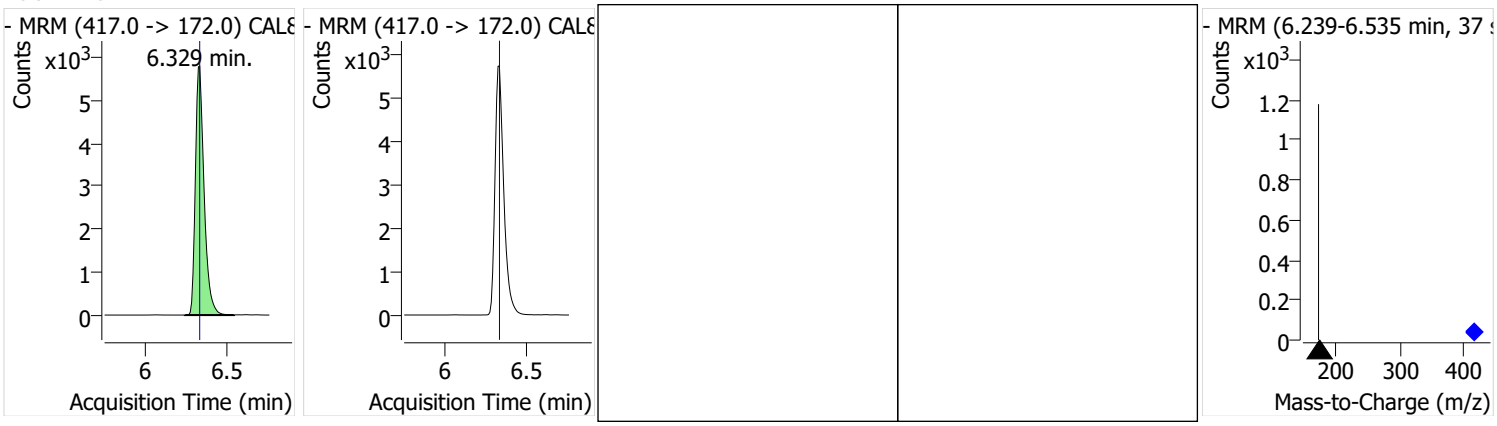
13C4-PFBA - ISTD



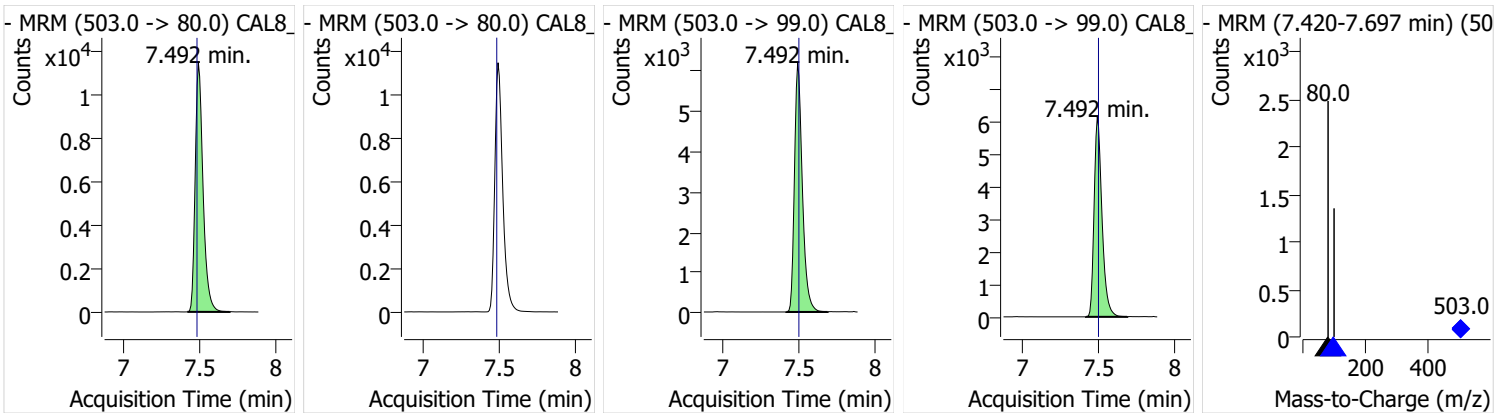
13C4-PFHpA - ISTD



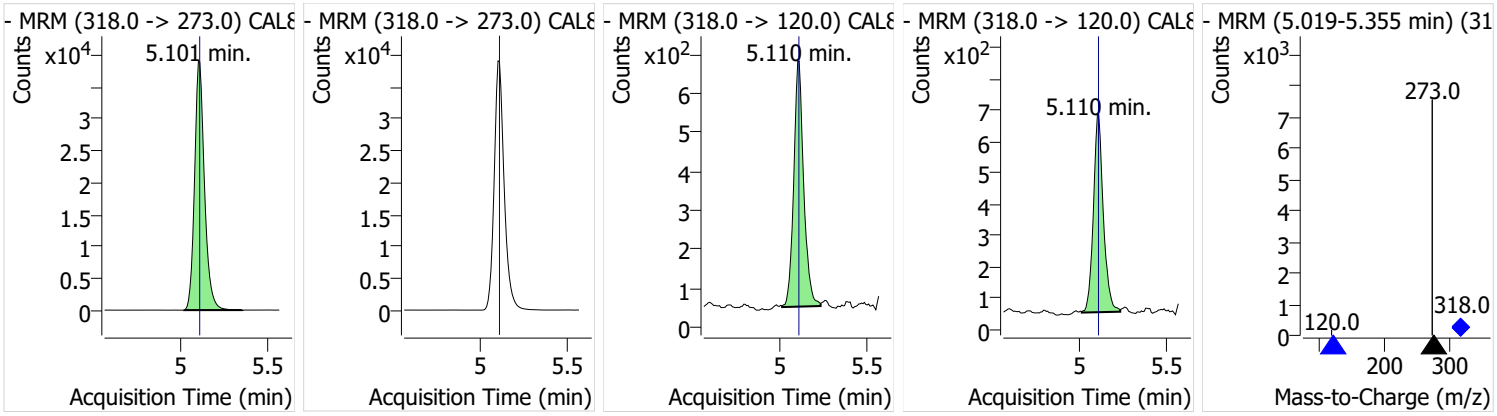
13C4-PFOA



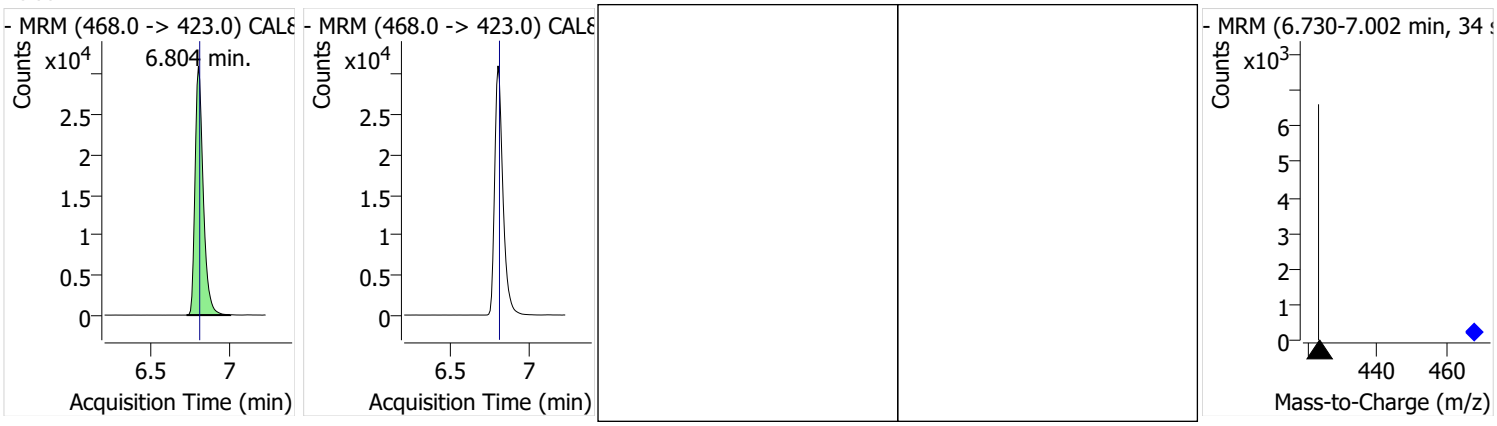
13C4-PFOS



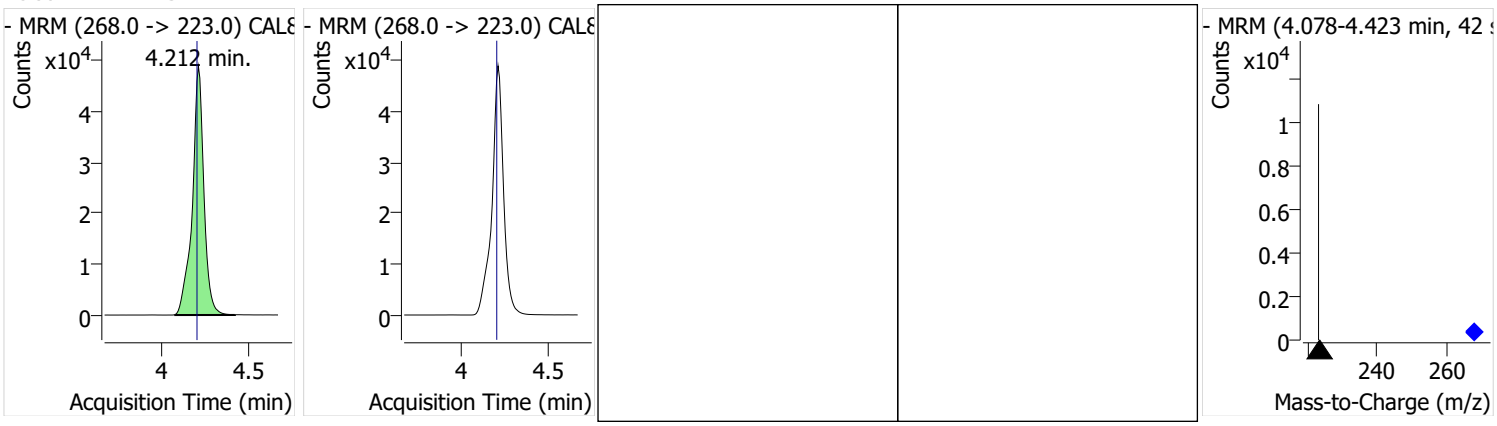
13C5-PFHxA - ISTD



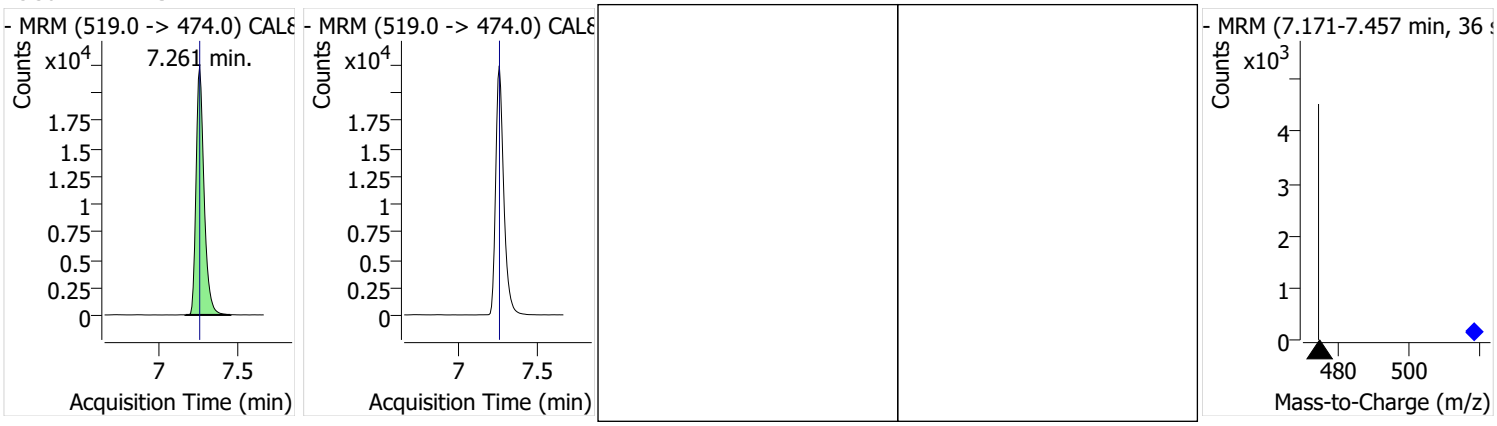
13C5-PFNA



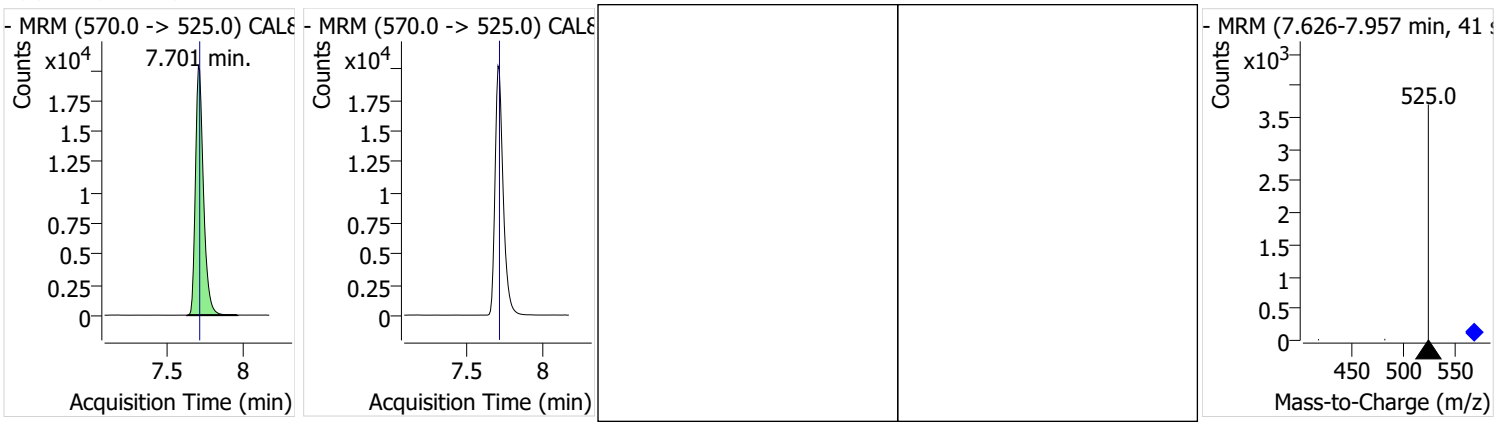
13C5-PFPeA - ISTD



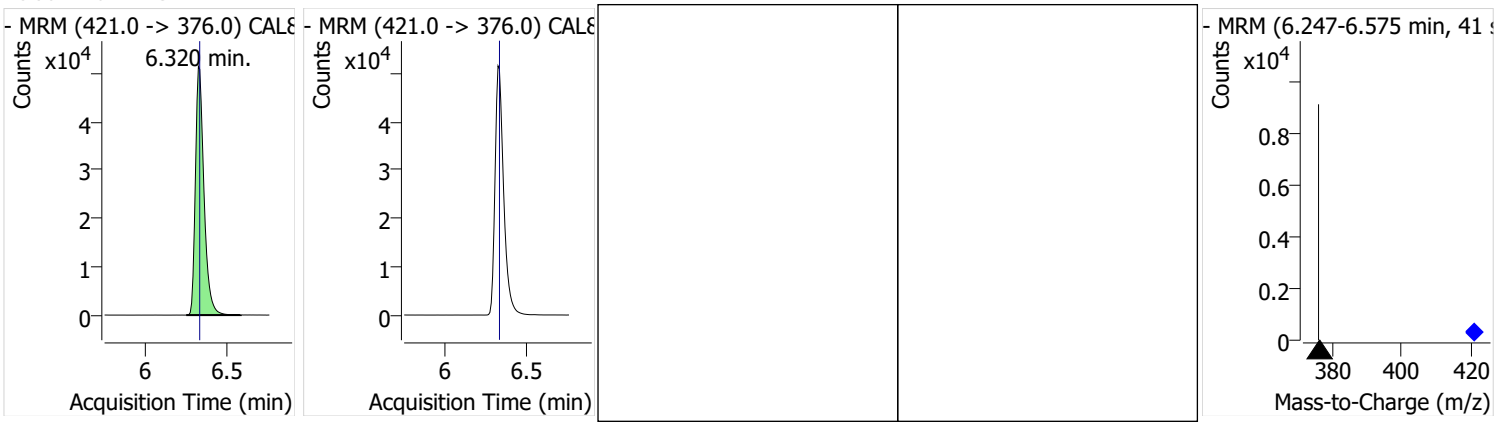
13C6-PFDA - ISTD



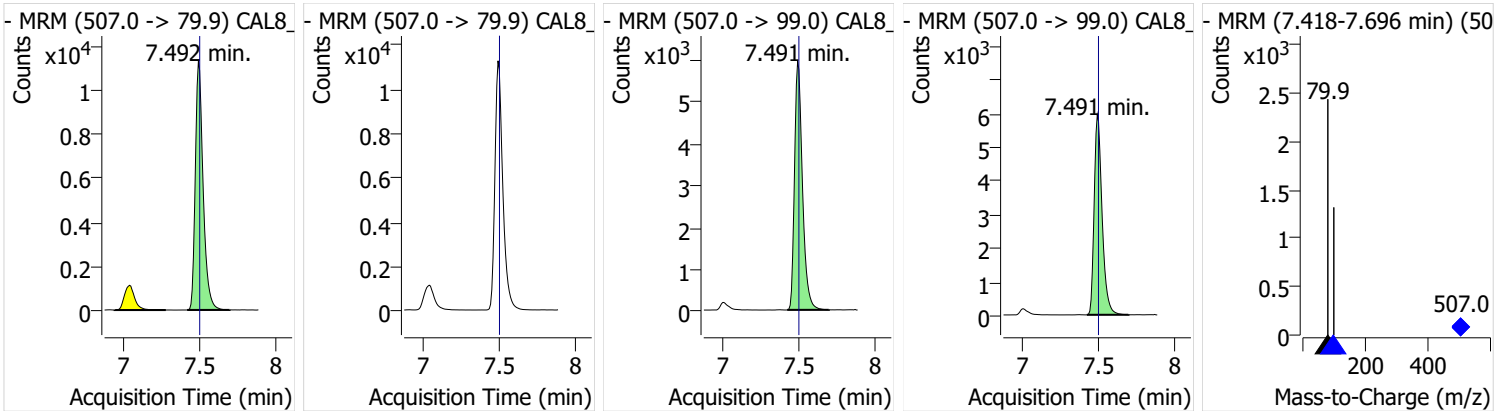
13C7-PFUnA - ISTD



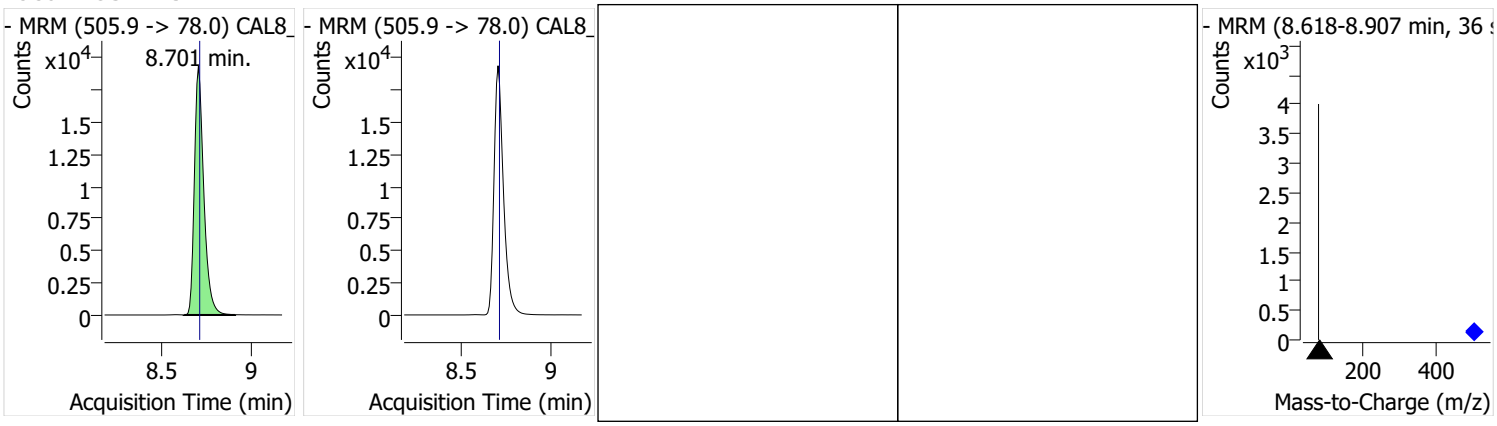
13C8-PFOA - ISTD



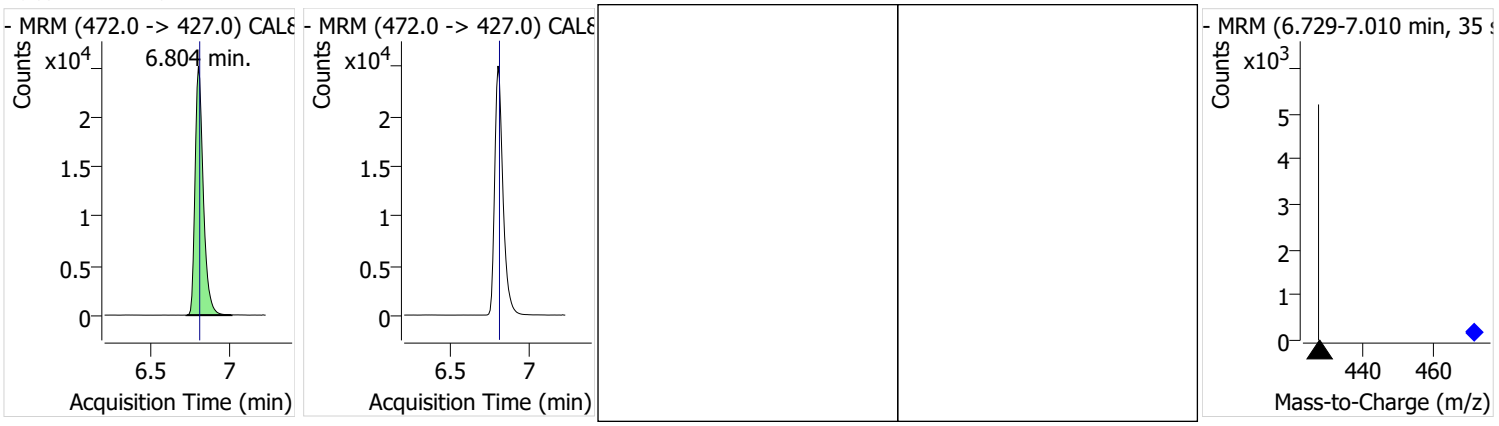
13C8-PFOS - ISTD



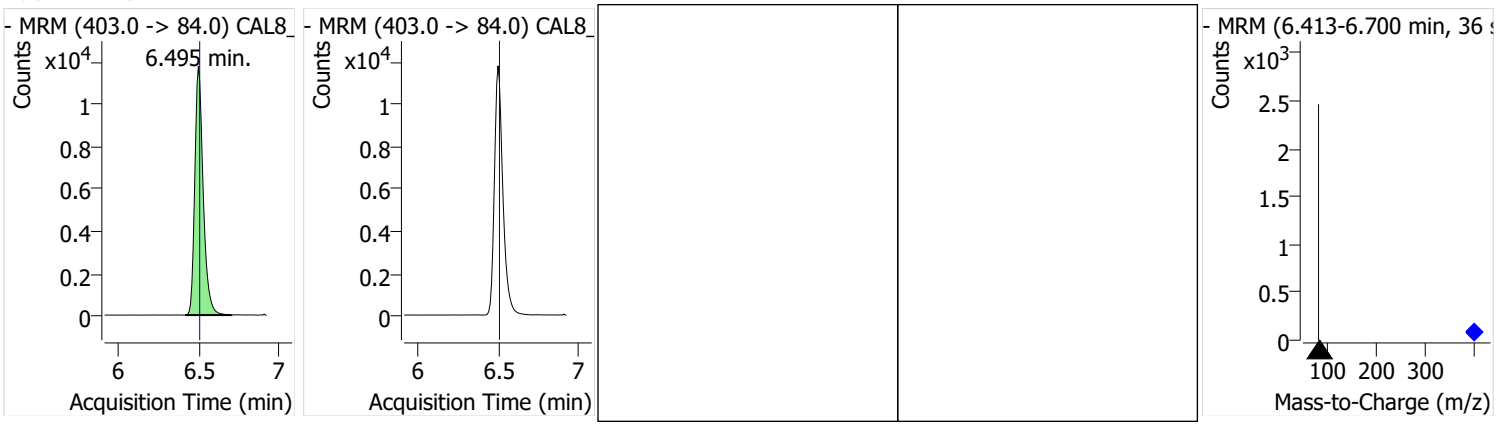
13C8-PFOSA - ISTD



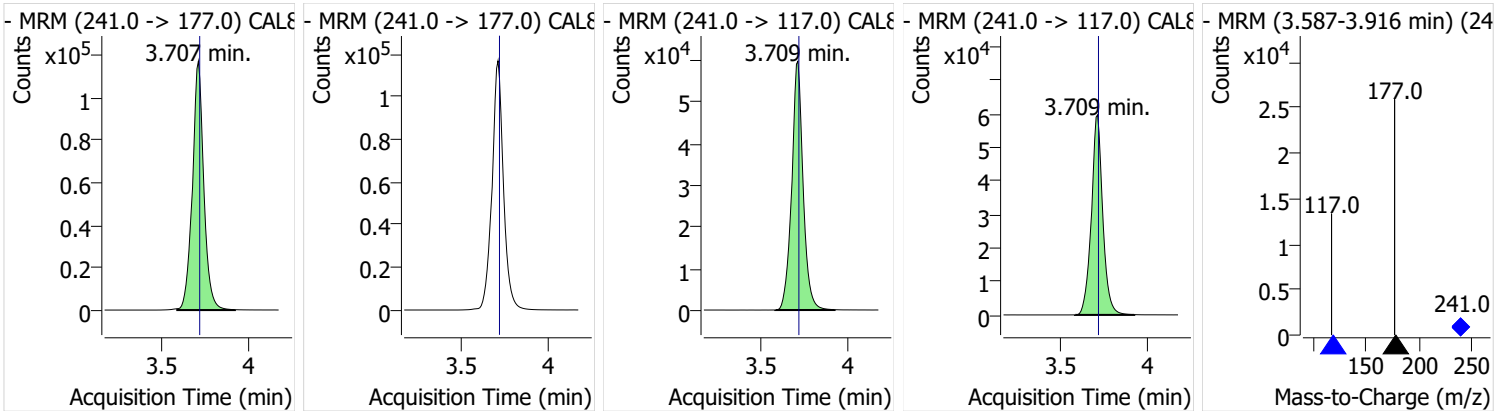
13C9-PFNA - ISTD



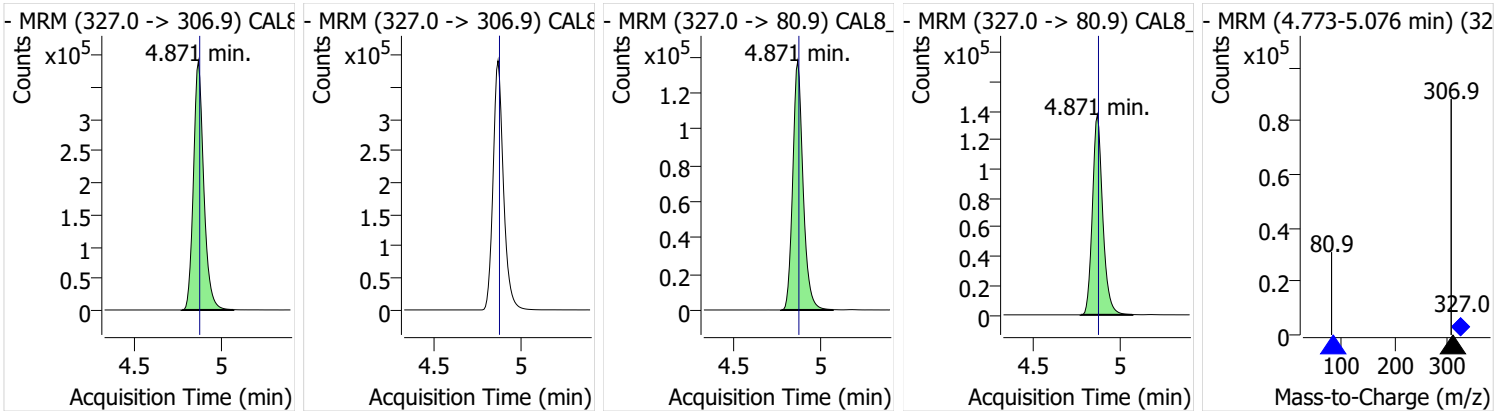
18O2-PFHxS



3:3FTCA



4:2FTS



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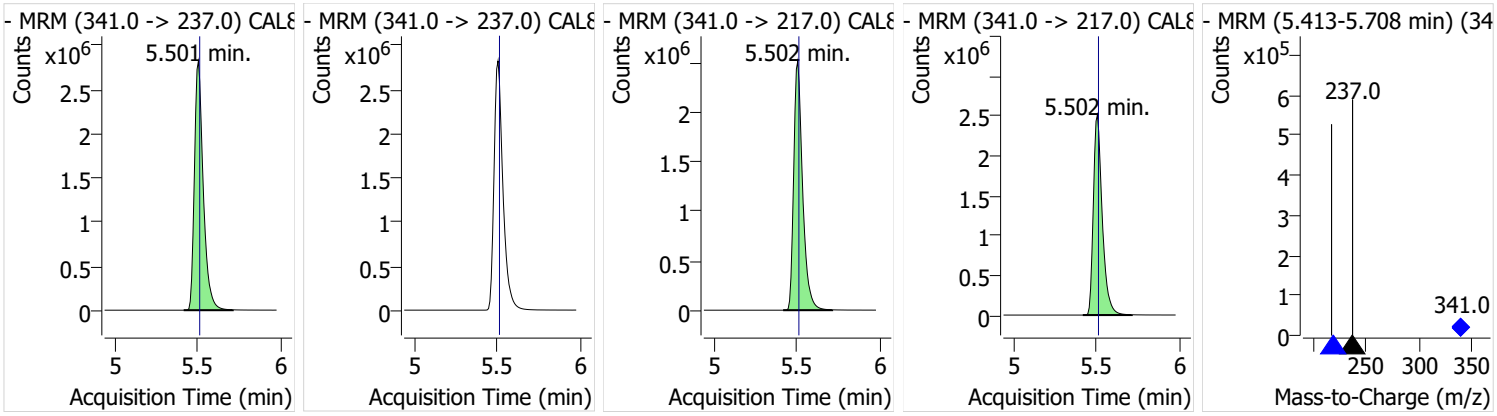
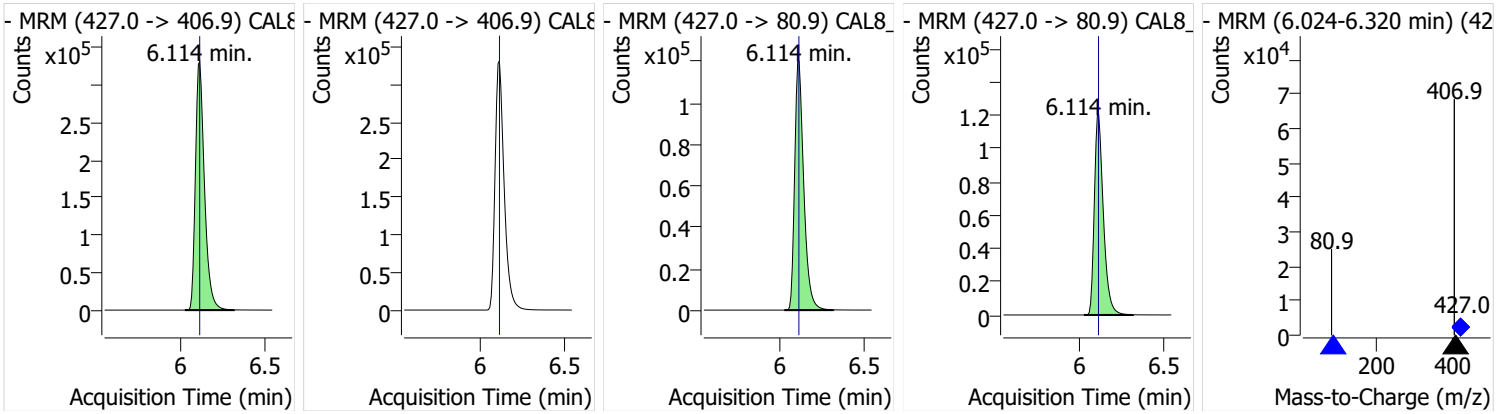
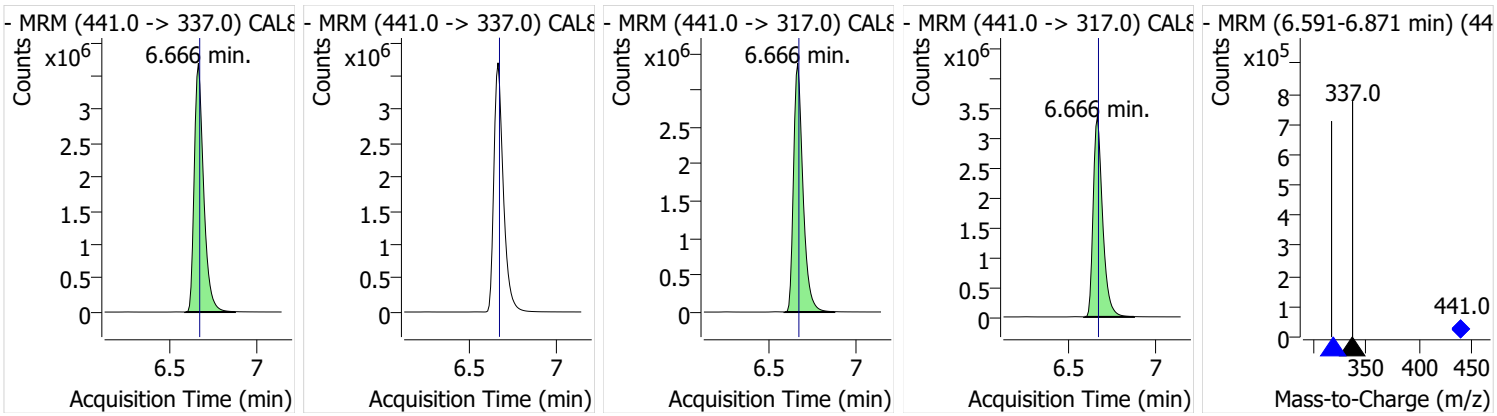


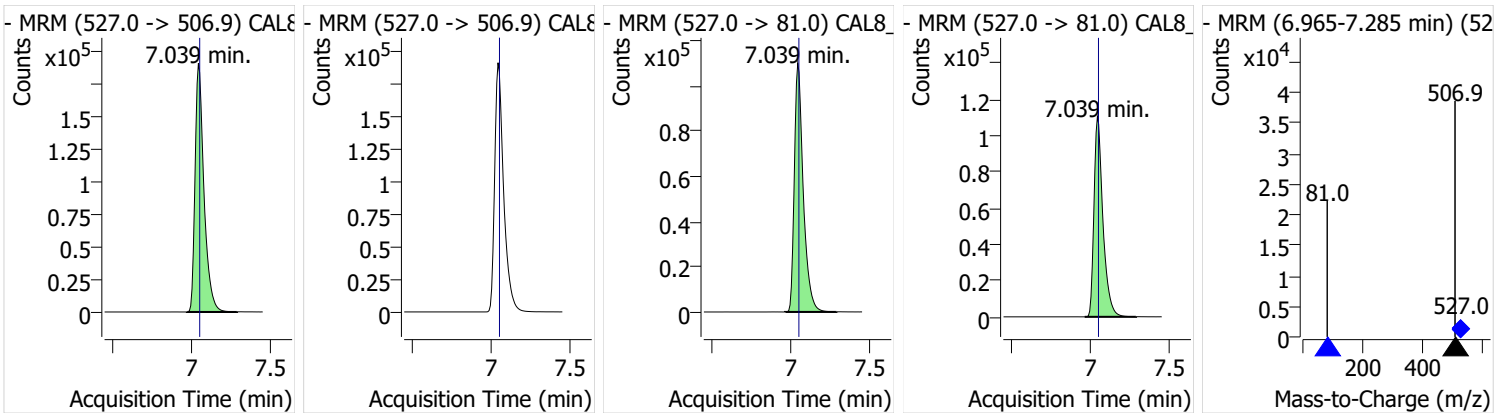
6:2FTS



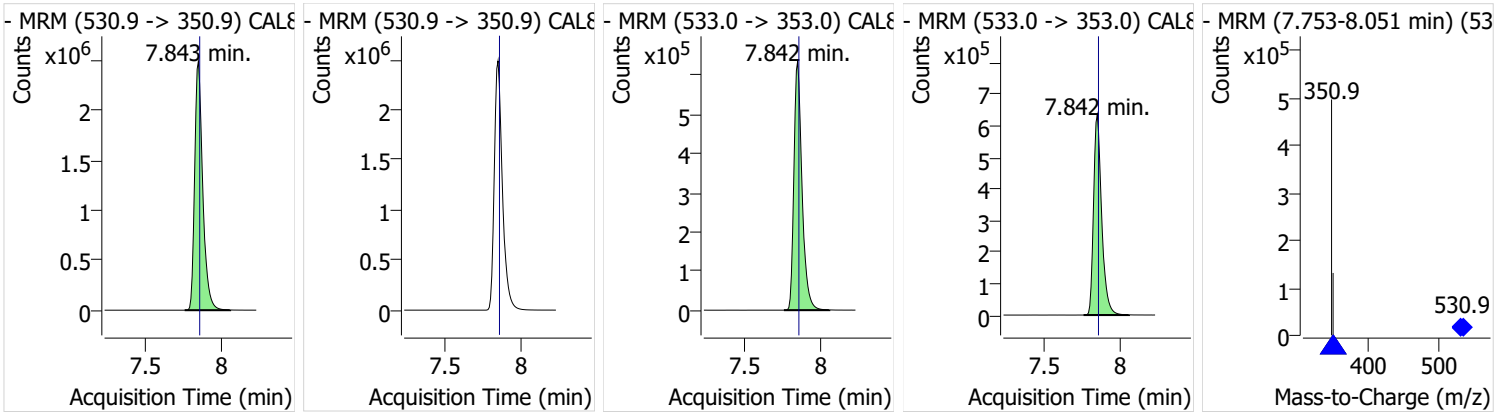
7:3FTCA



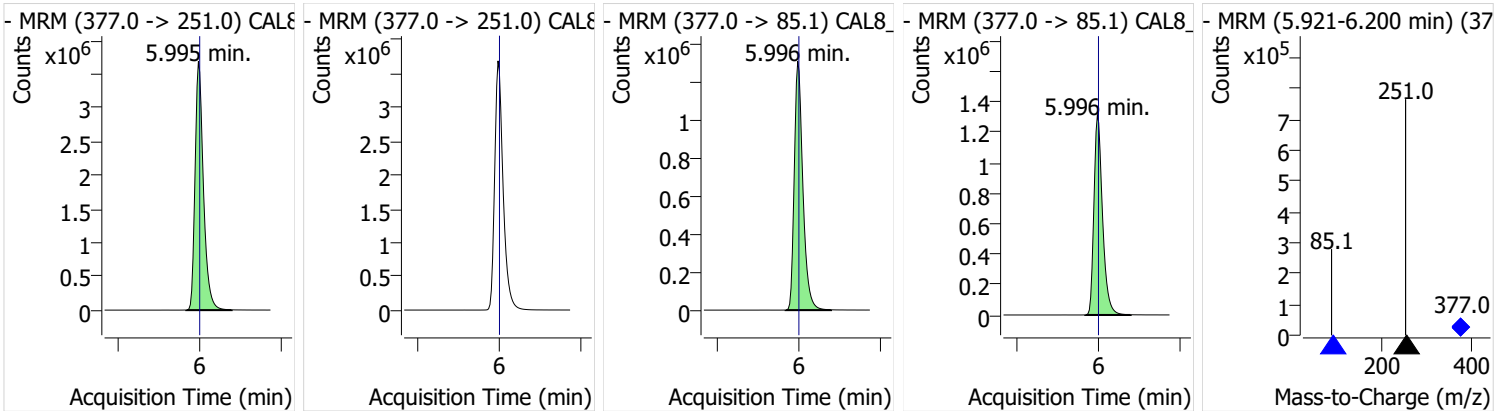
8:2FTS



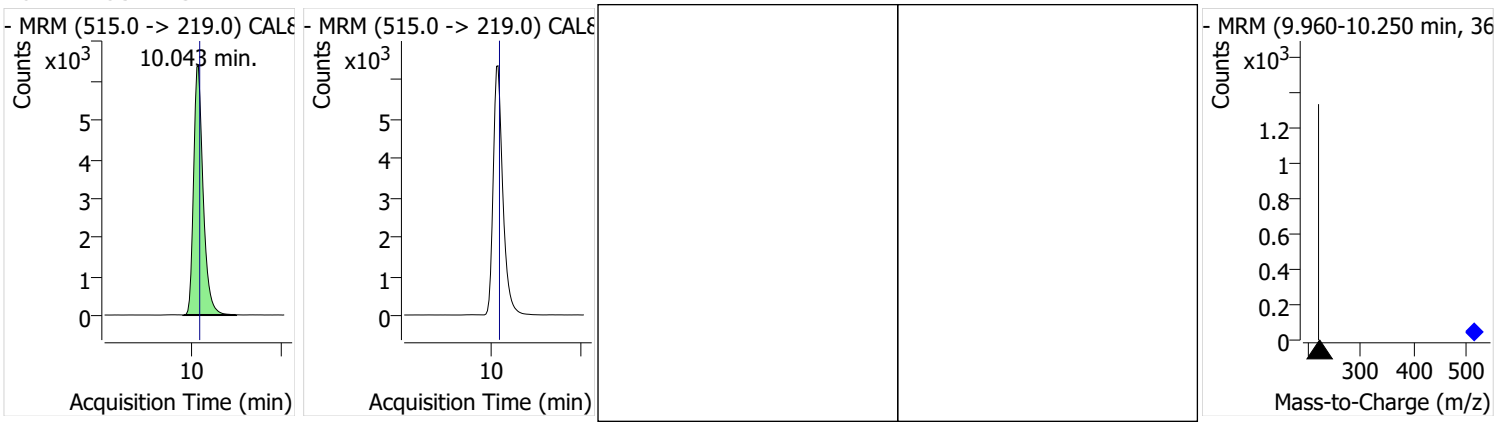
9Cl-PF3ONS



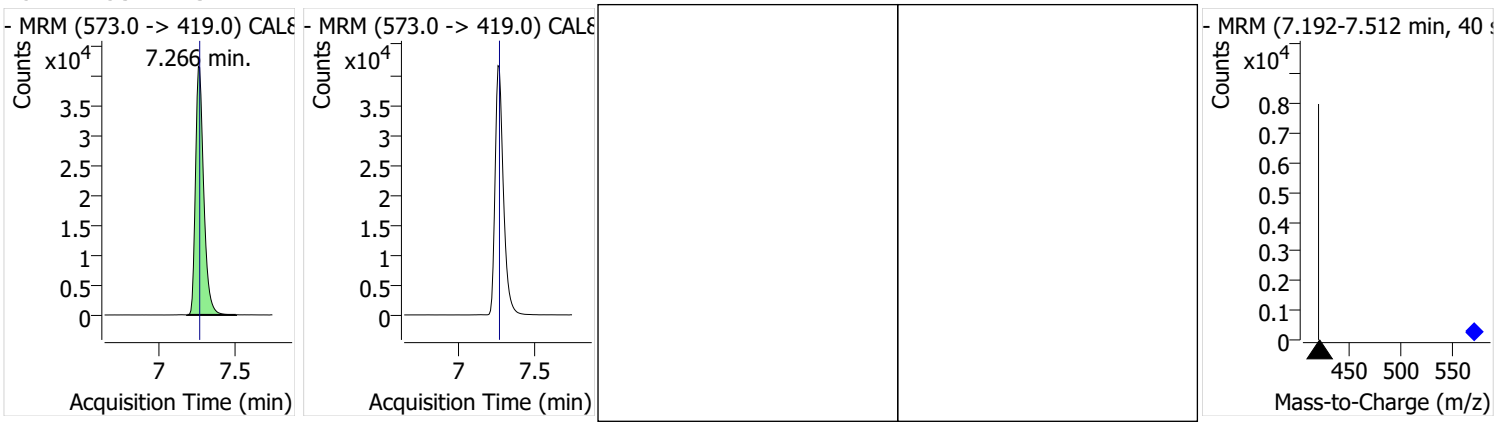
ADONA



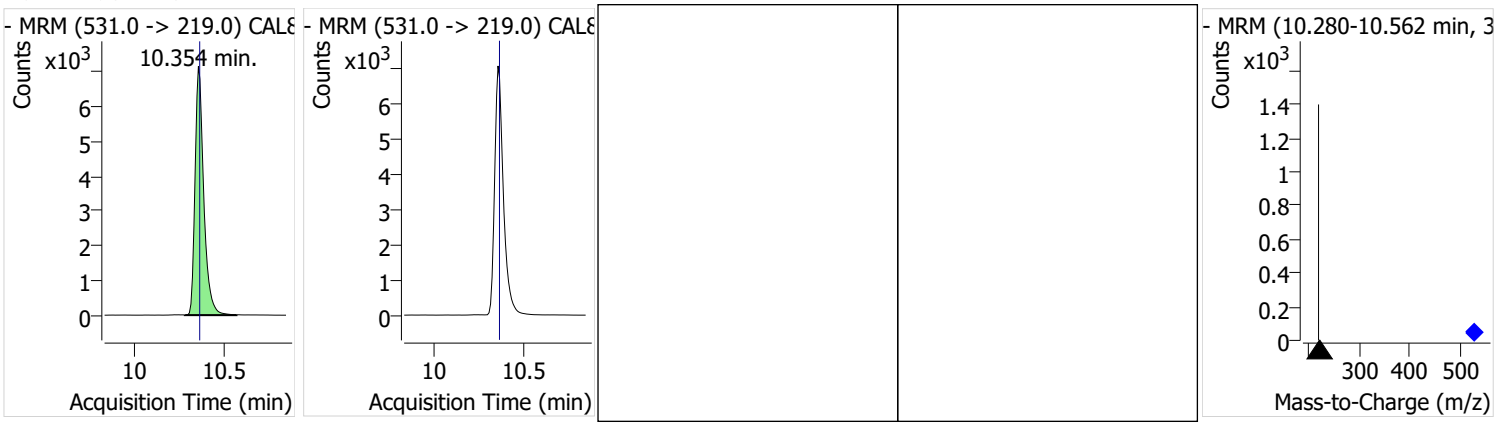
D3-NMeFOSA - ISTD



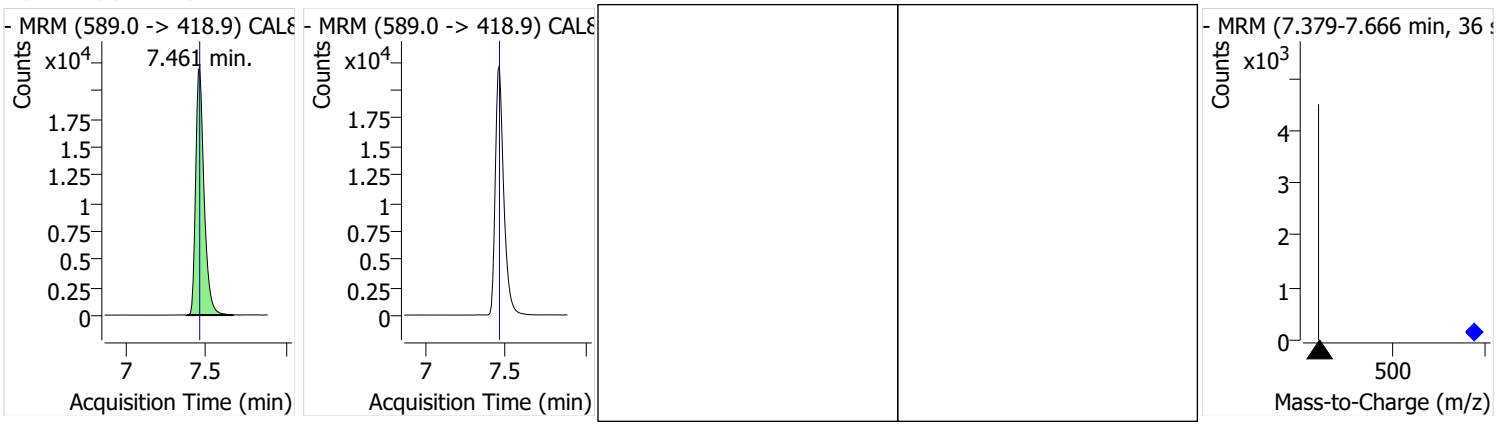
D3-NMeFOSAA - ISTD



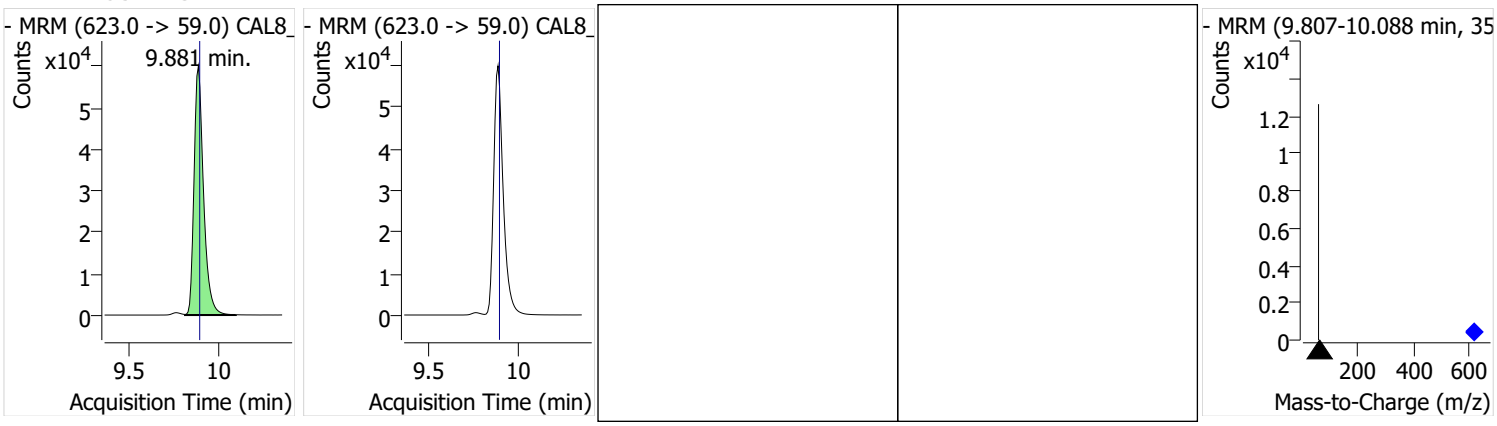
D5-NEtFOSA - ISTD



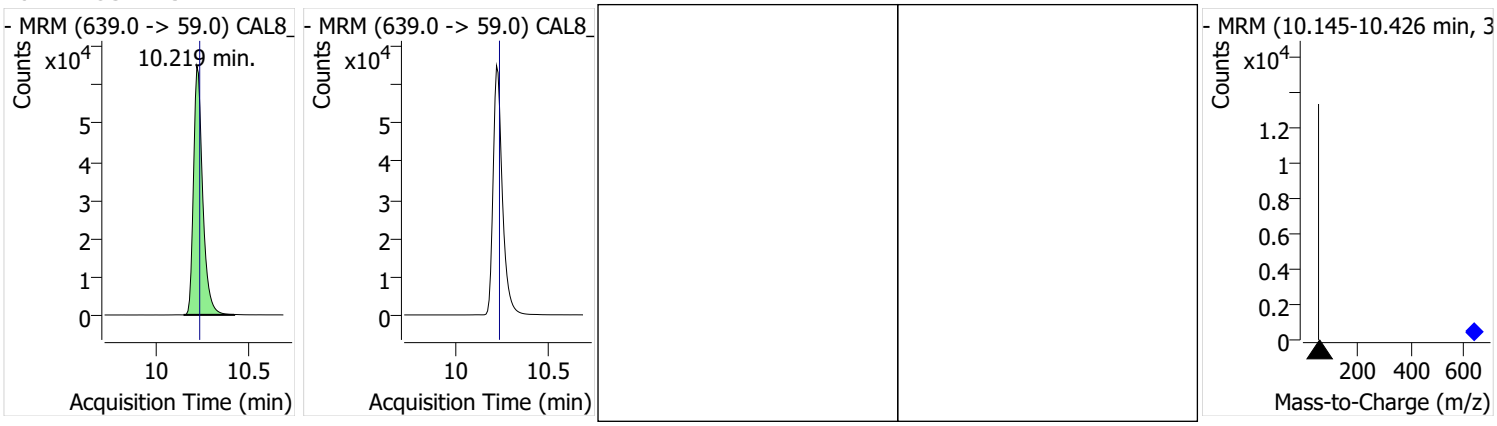
D5-NEtFOSAA - ISTD



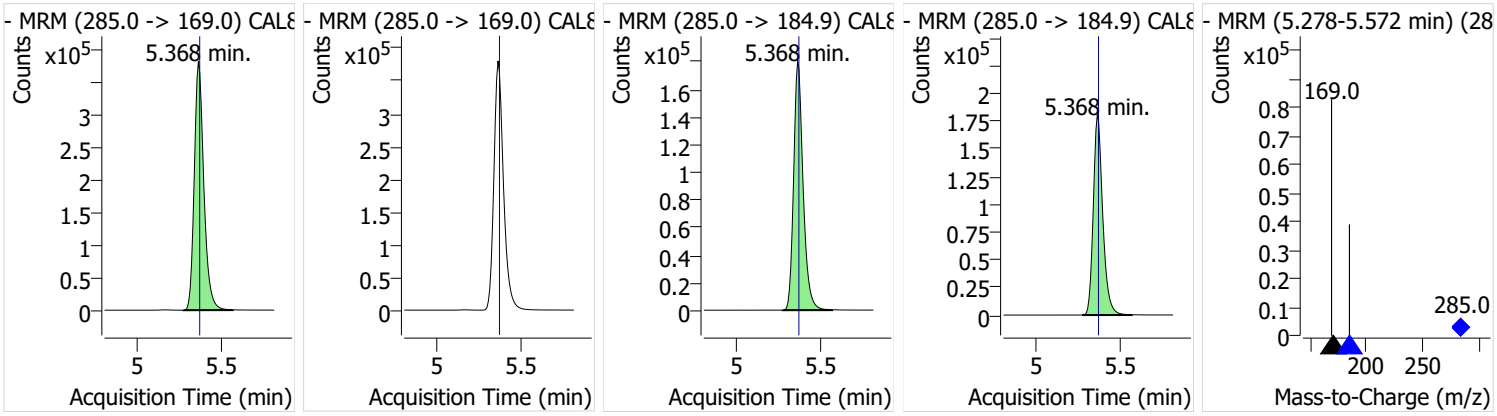
D7-NMeFOSE - ISTD



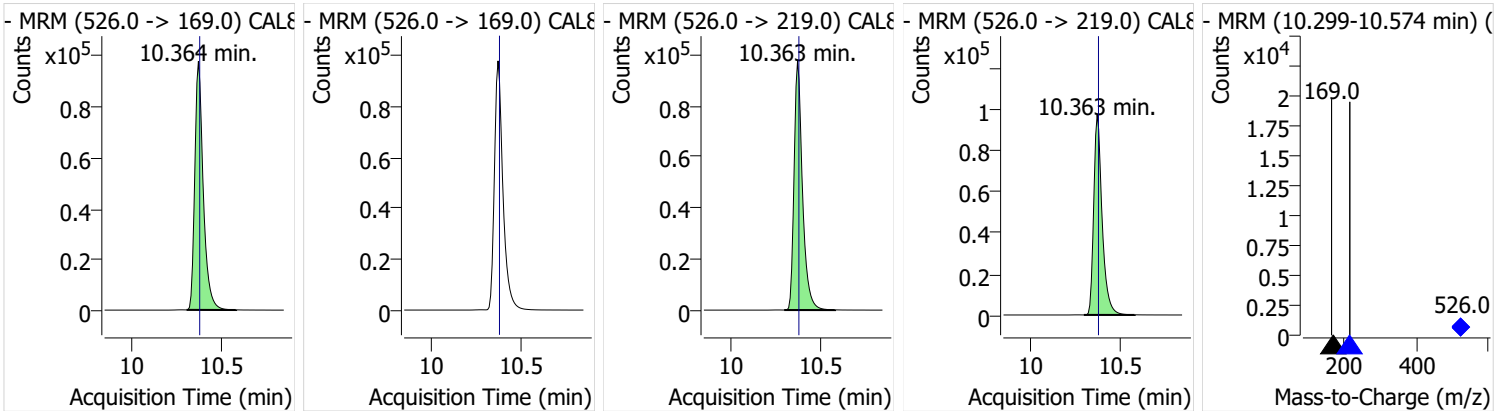
D9-NEtFOSE - ISTD



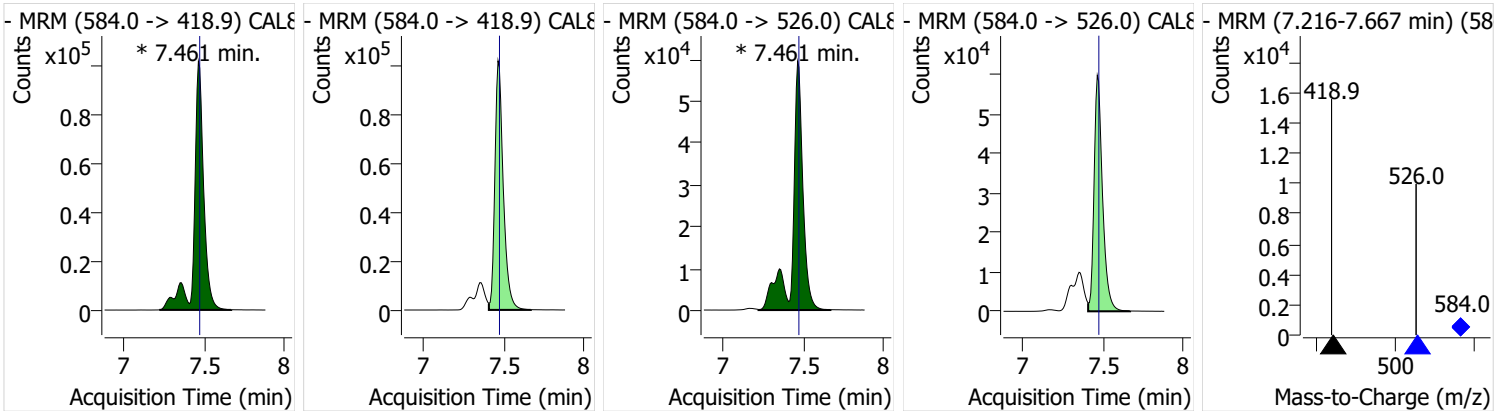
HFPO-DA



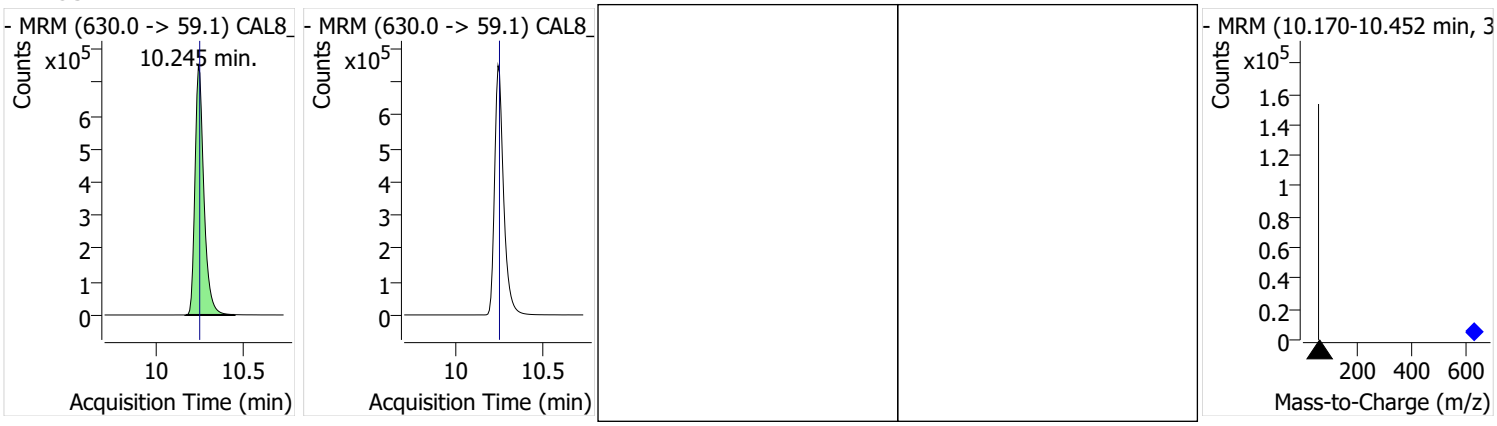
NEtFOSA



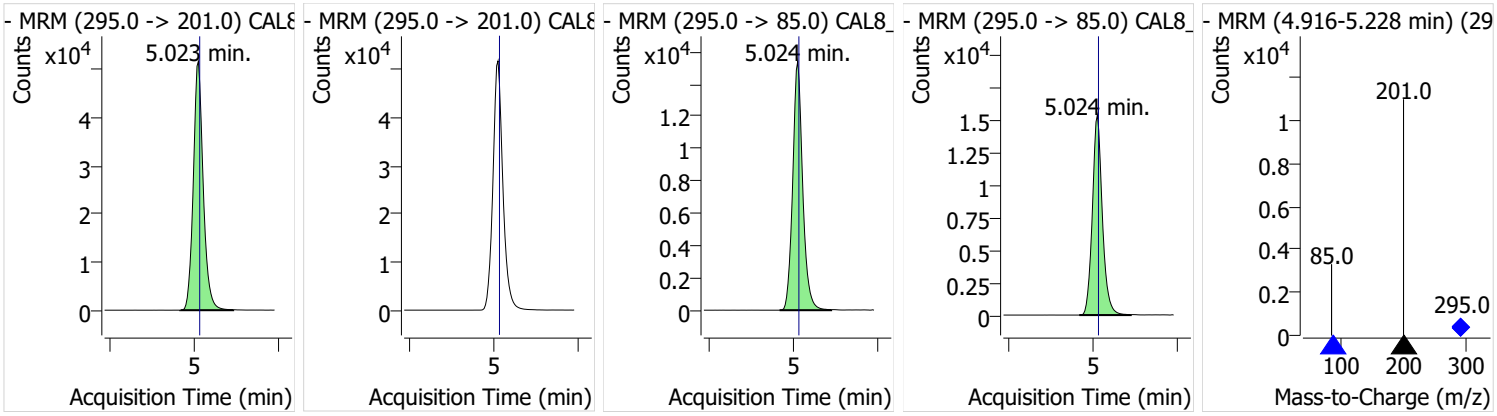
NEtFOSAA



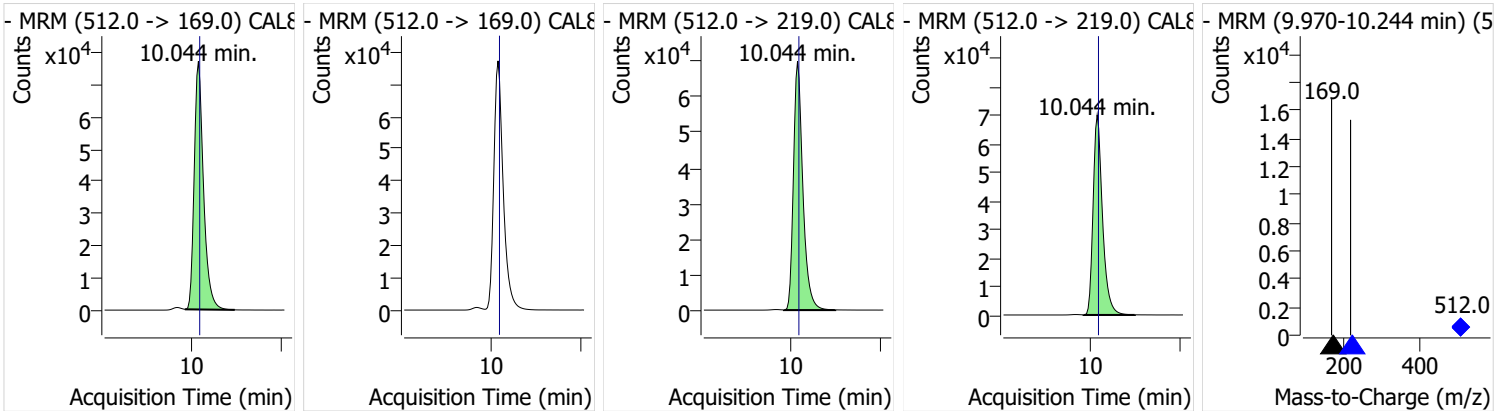
NEtFOSE



NFDHA



NMeFOSA



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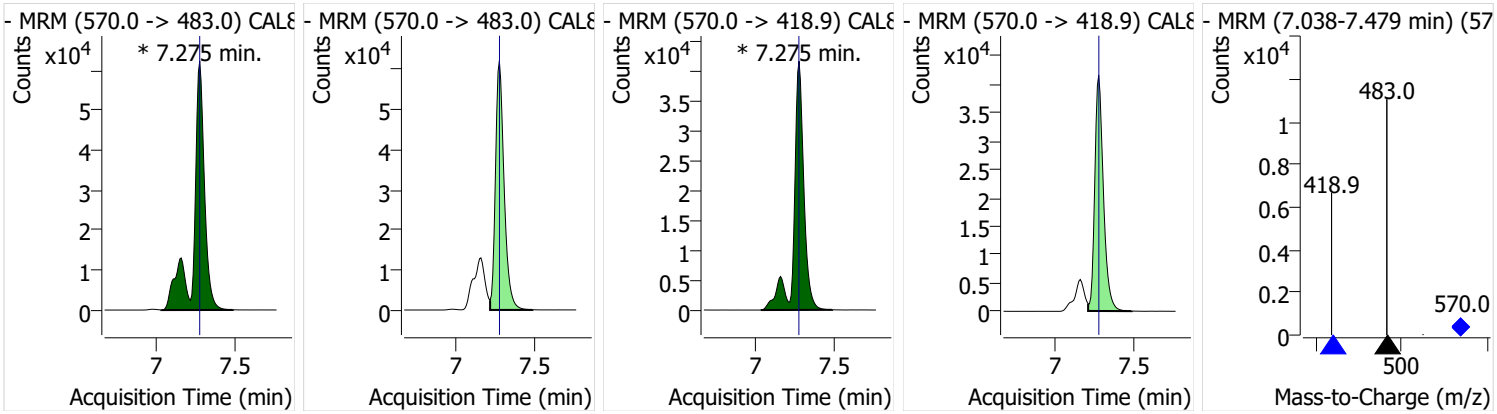
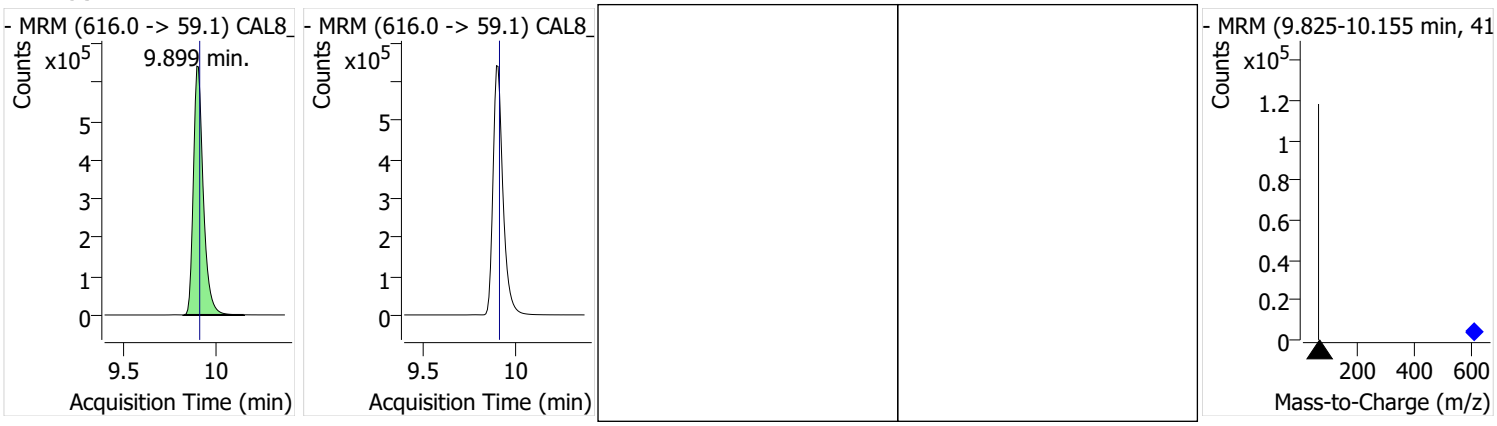


NMeFOSE



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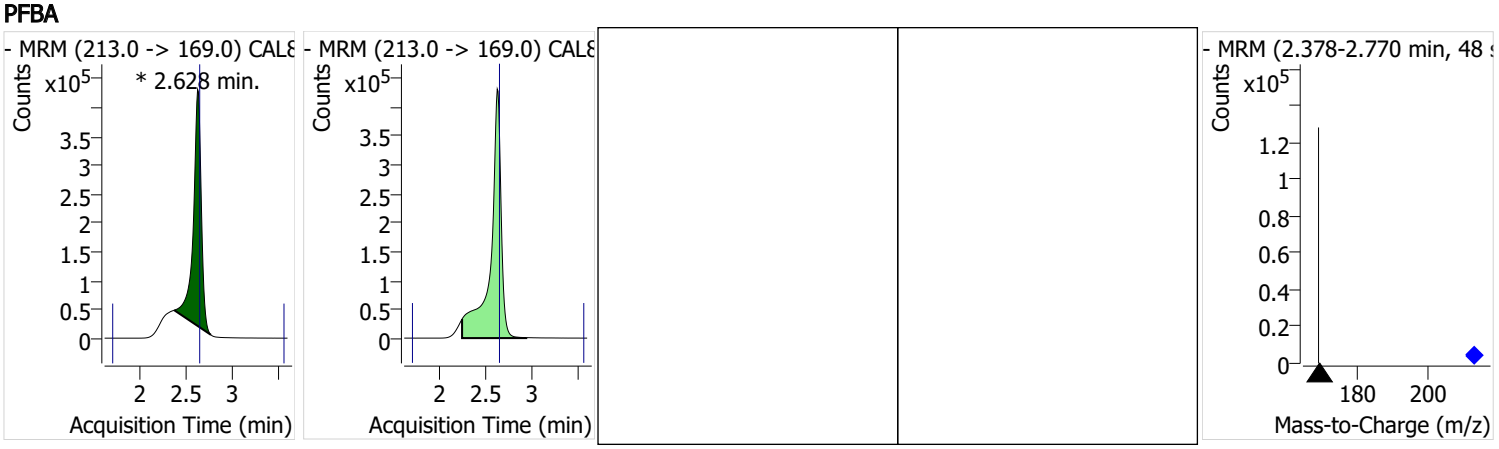

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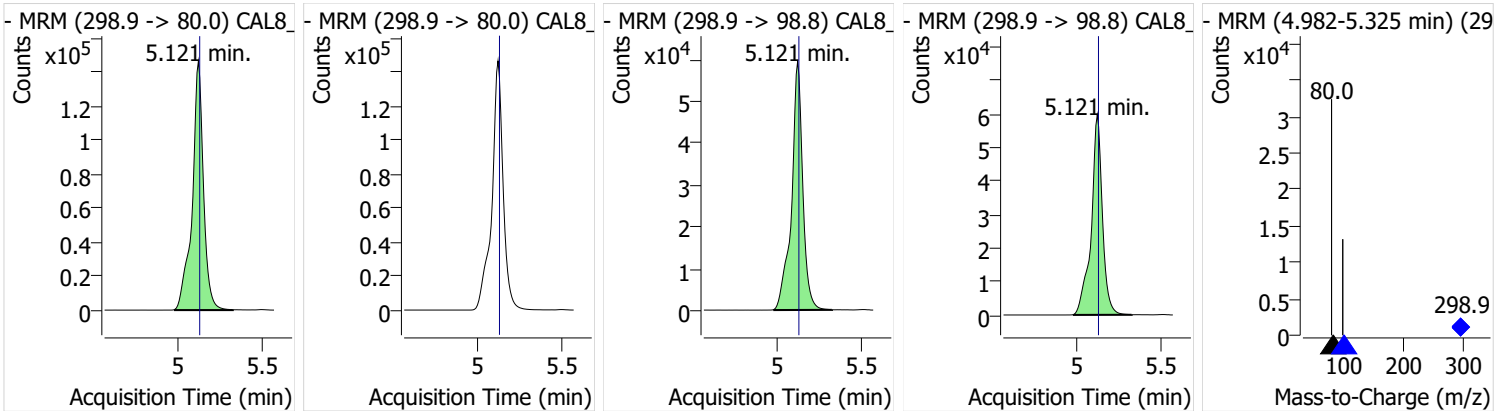

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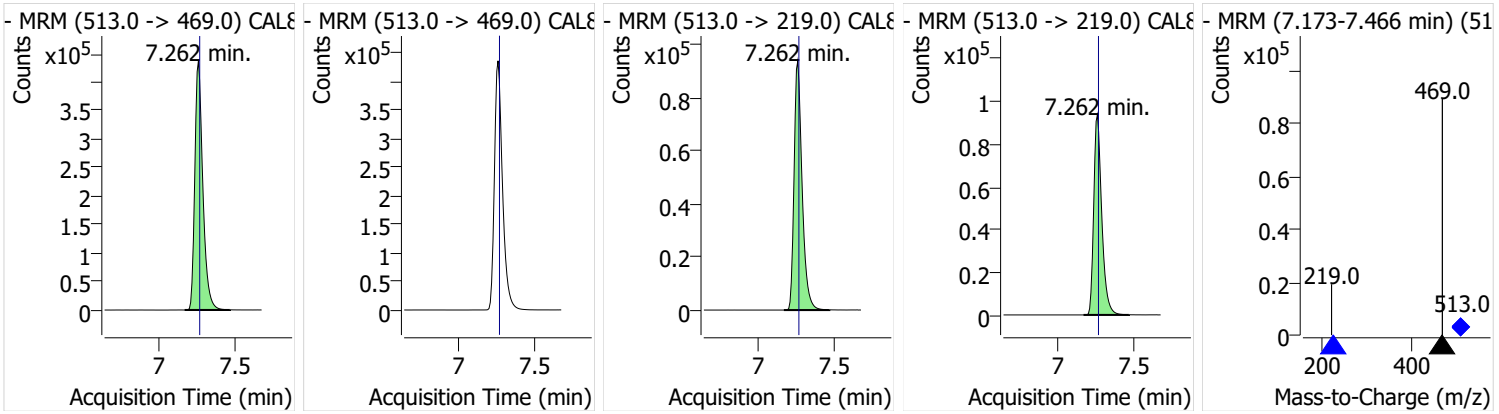

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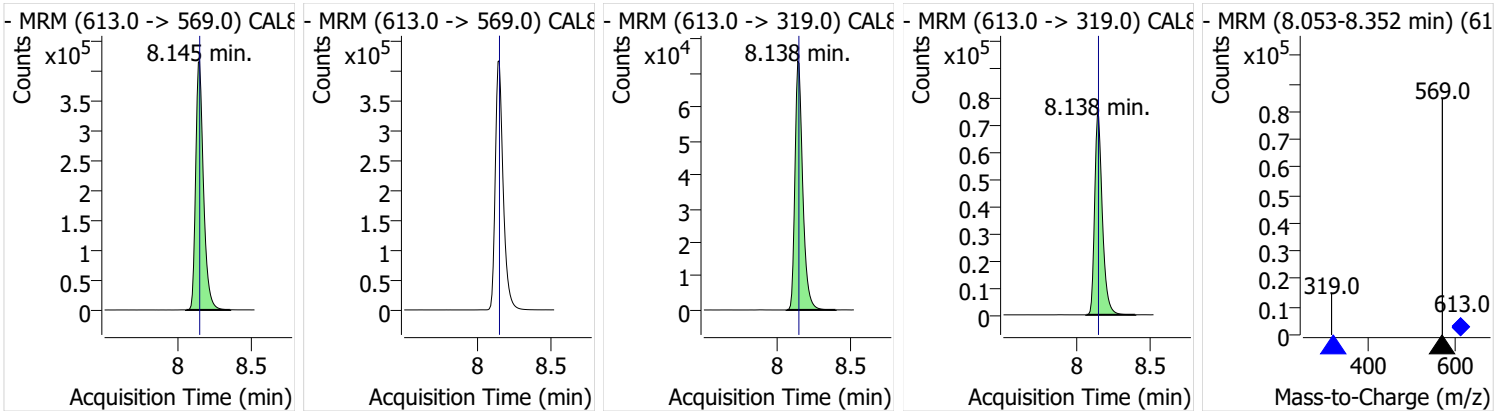

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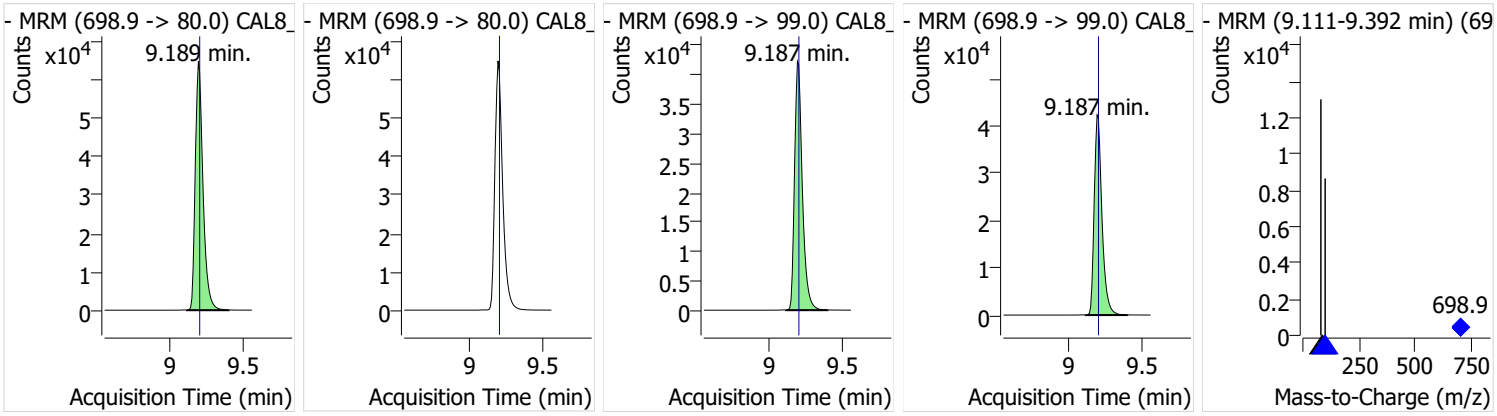

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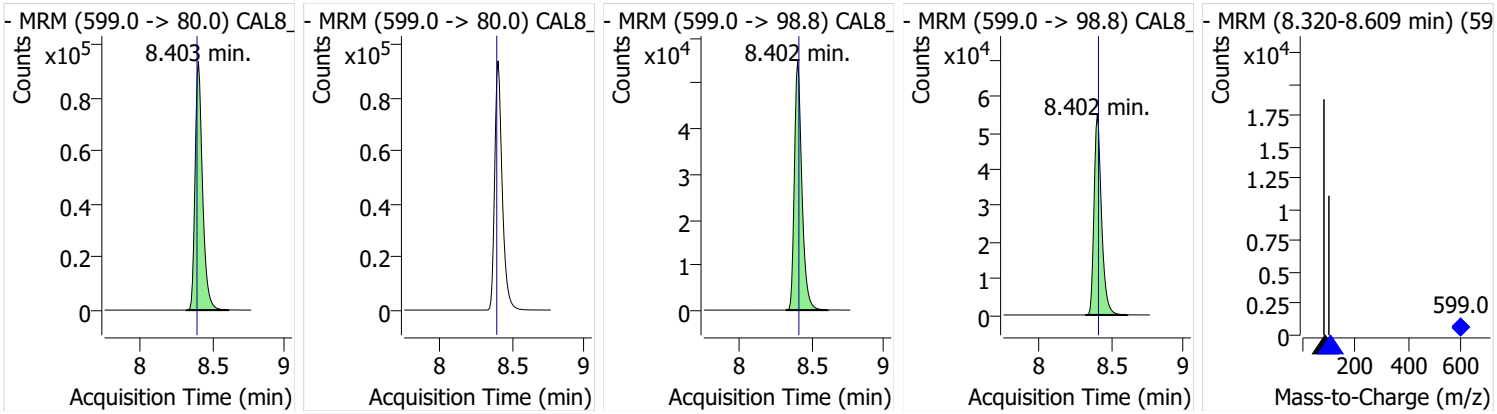

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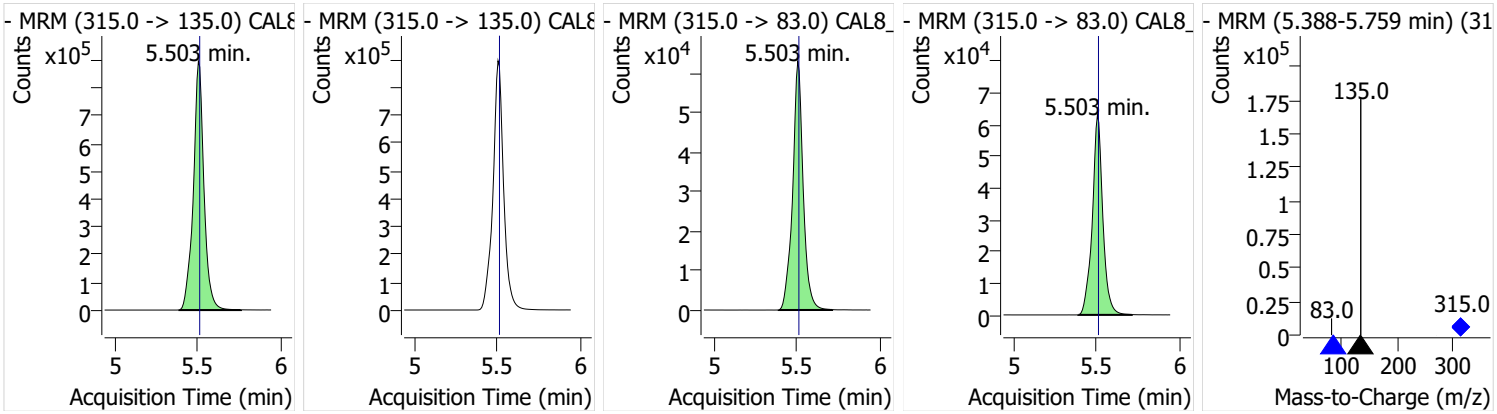

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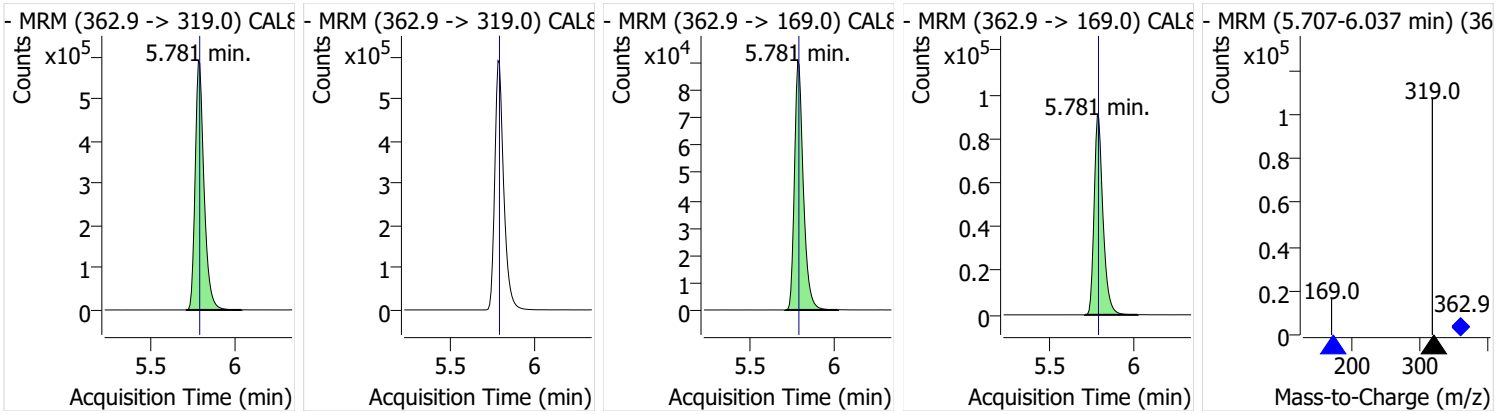

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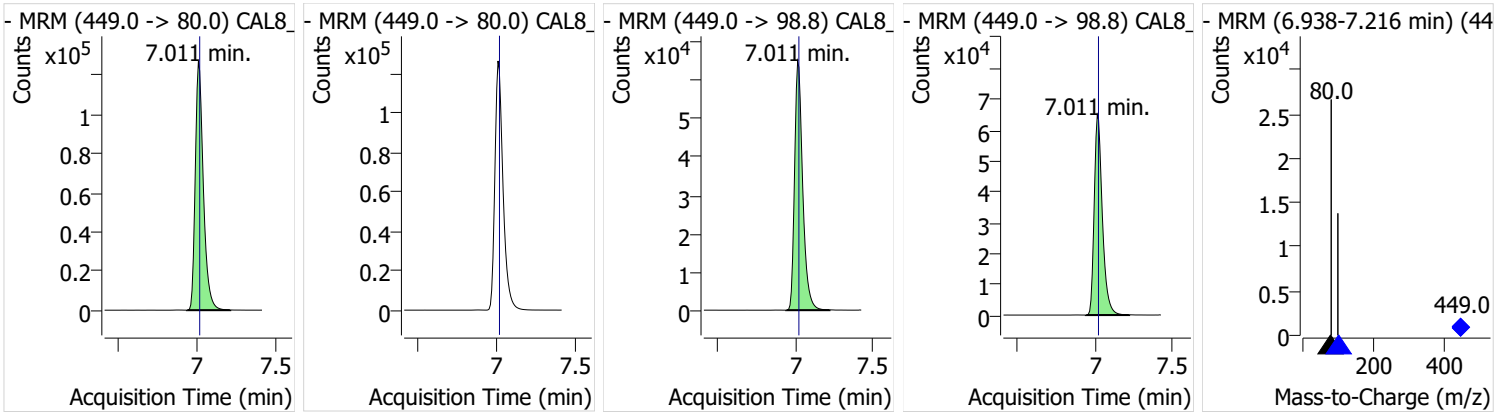

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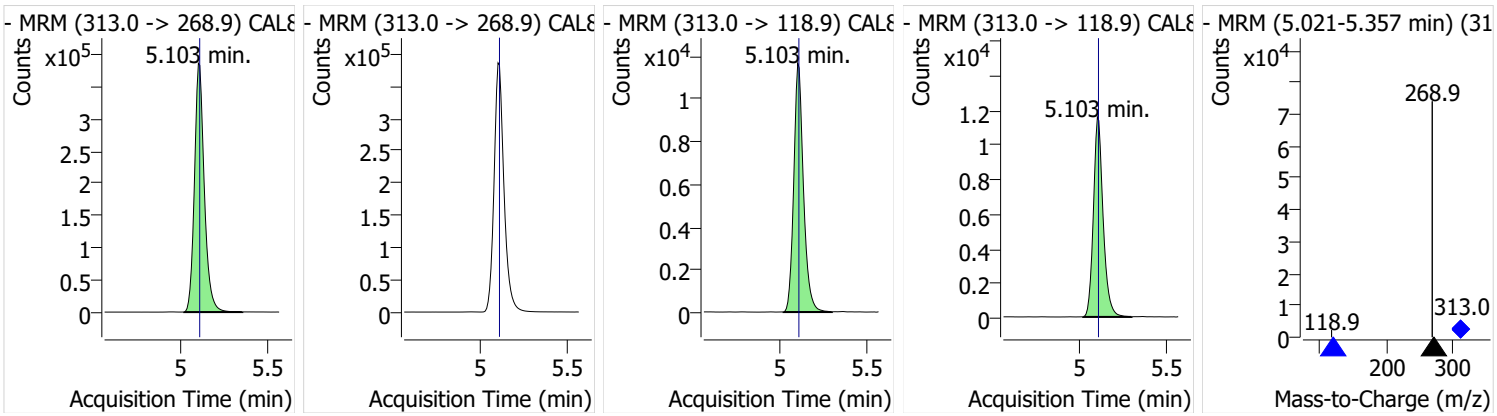

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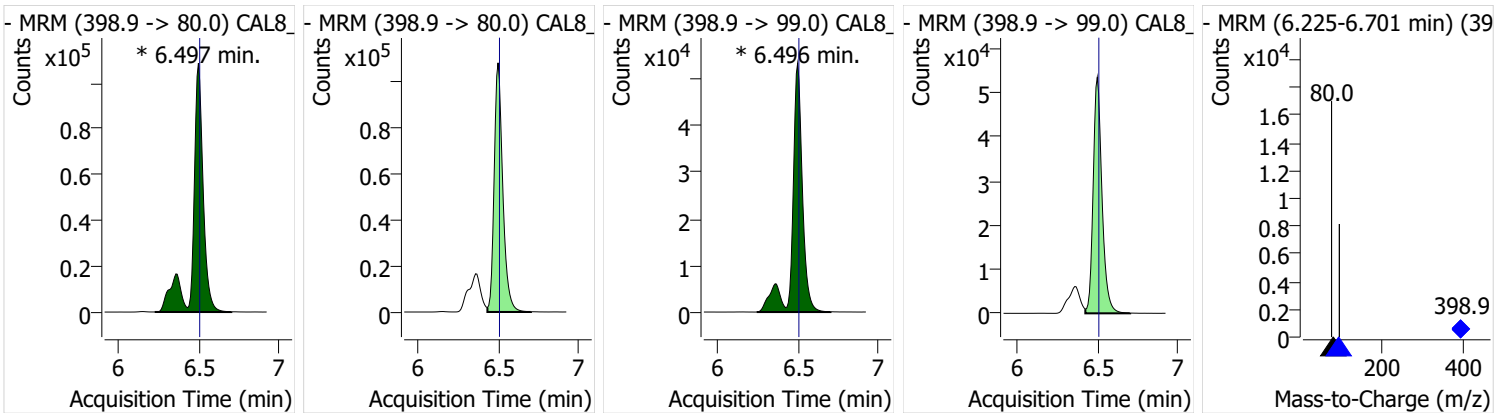

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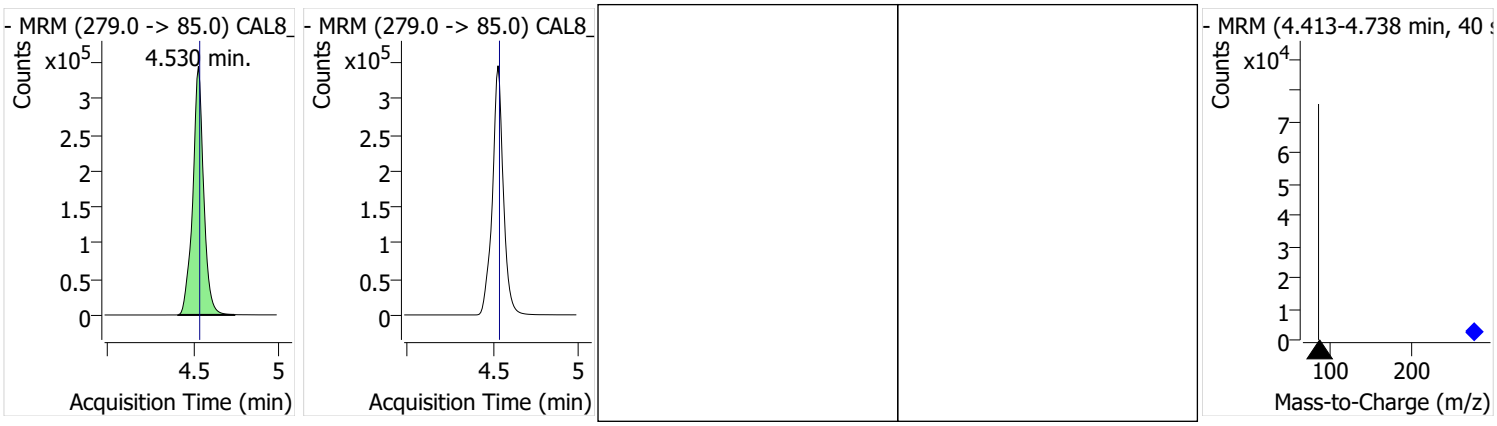

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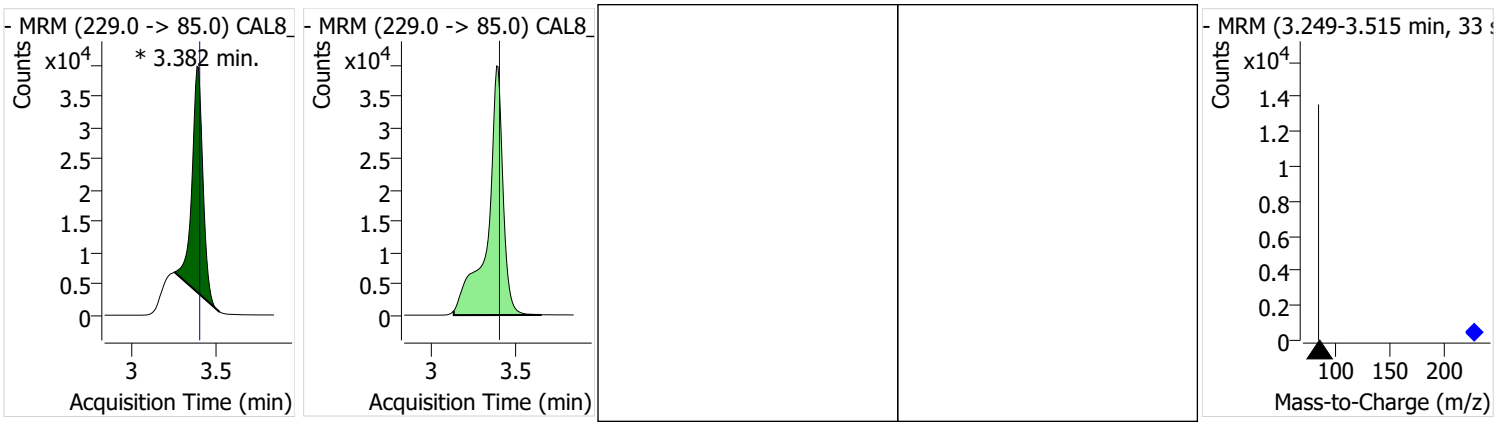

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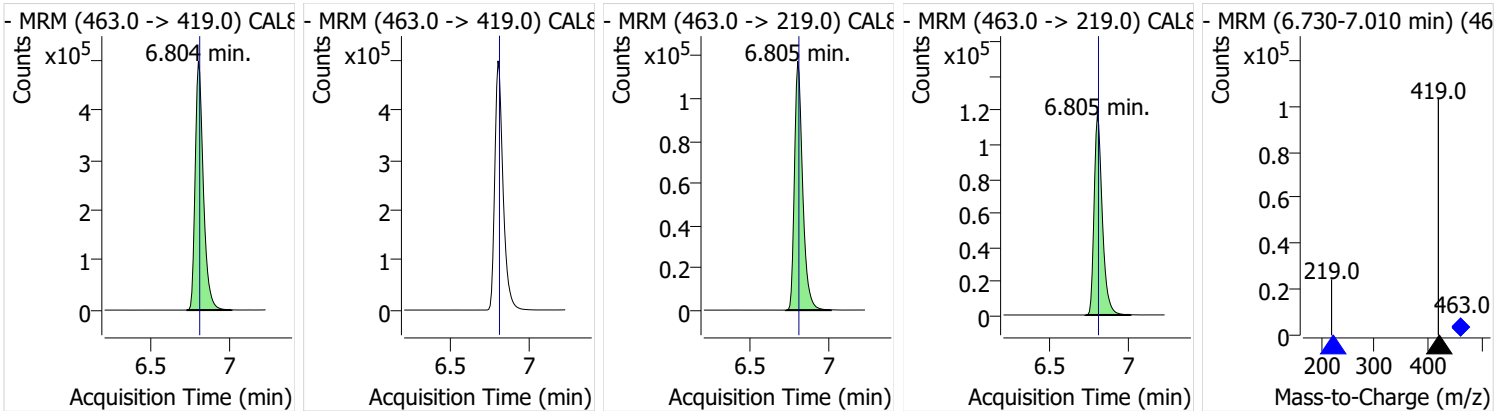

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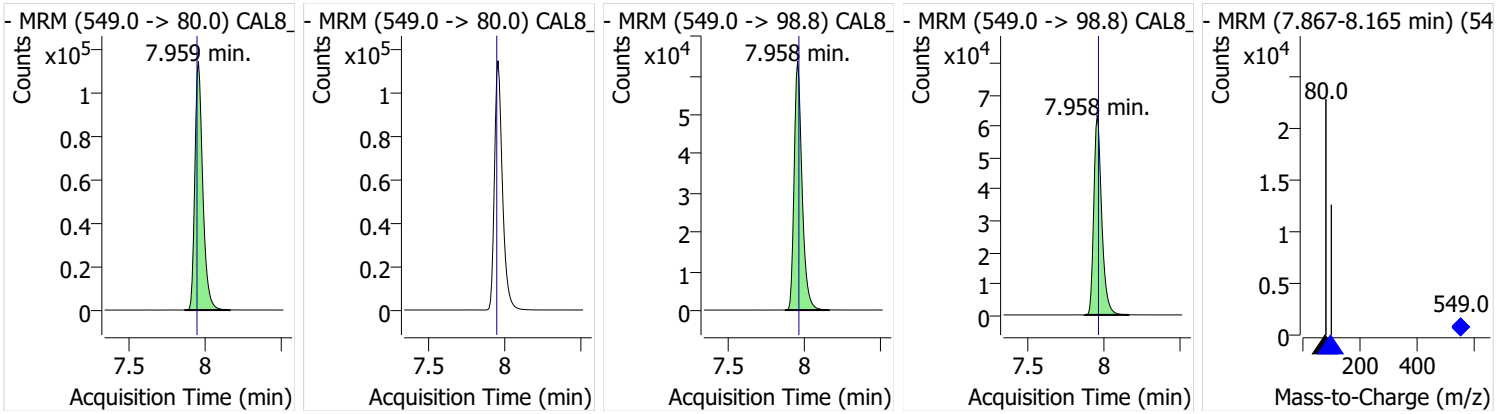

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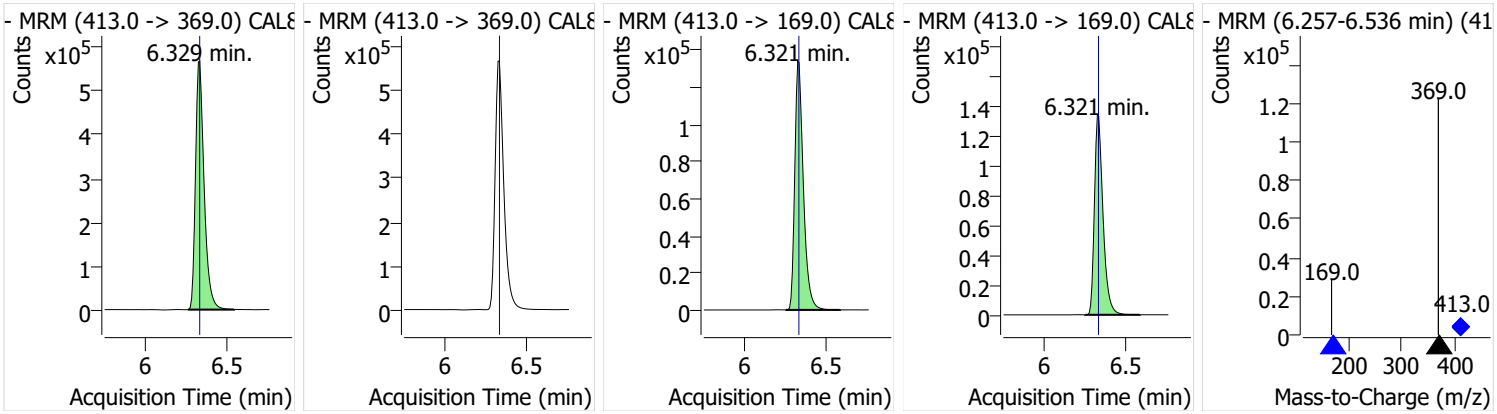

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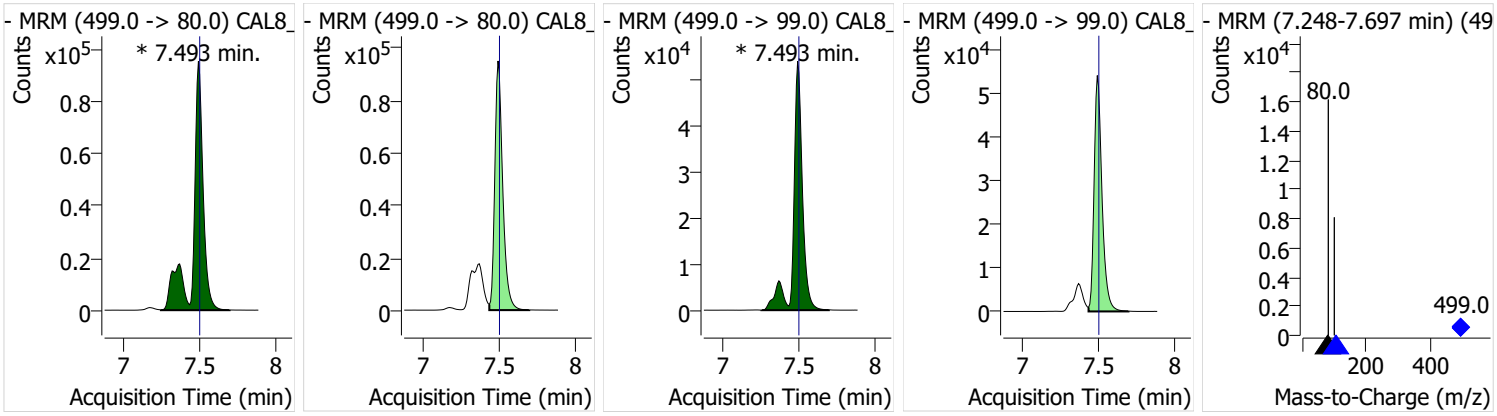

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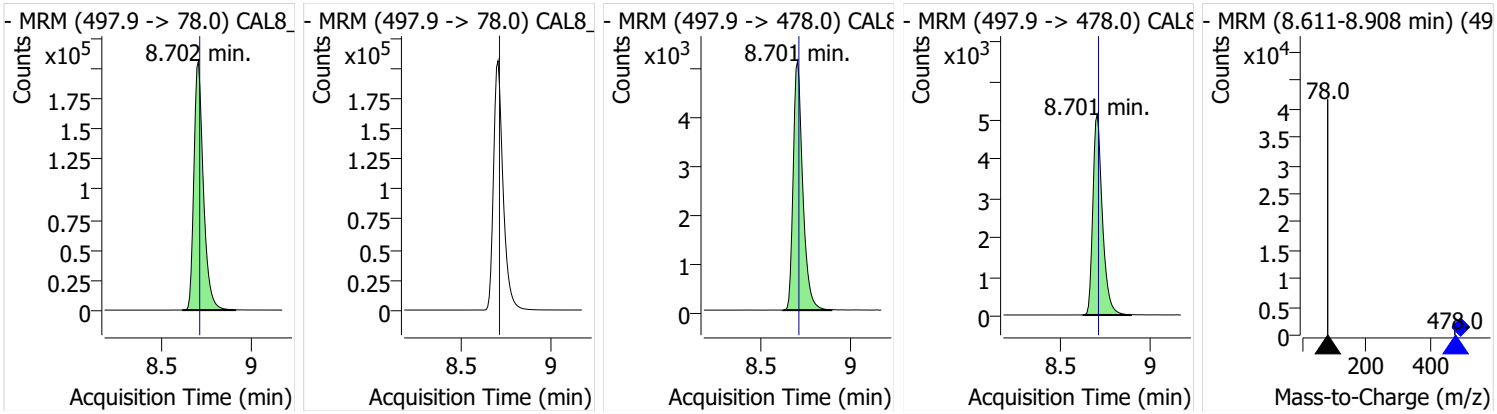

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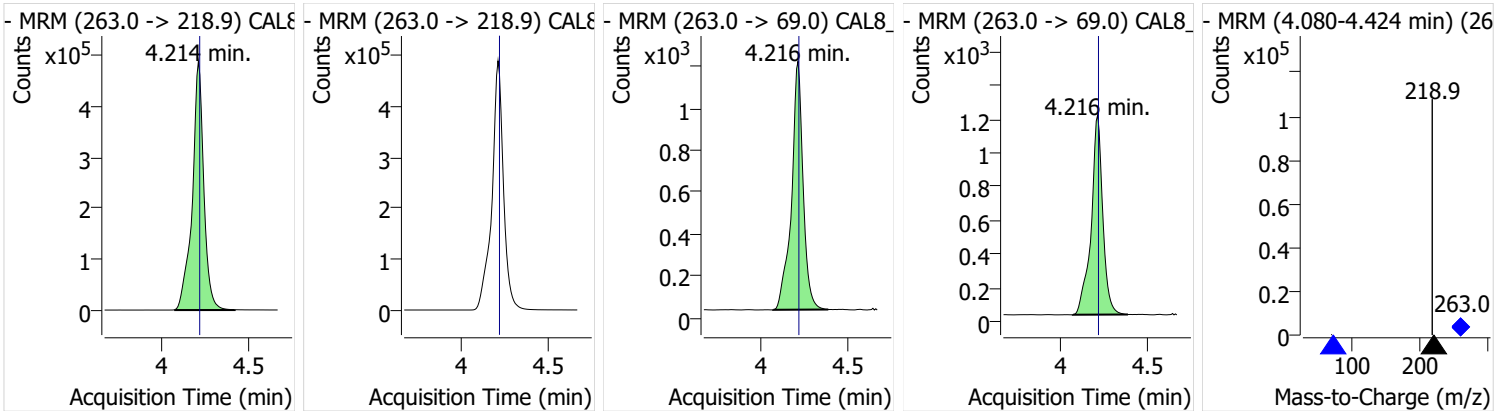

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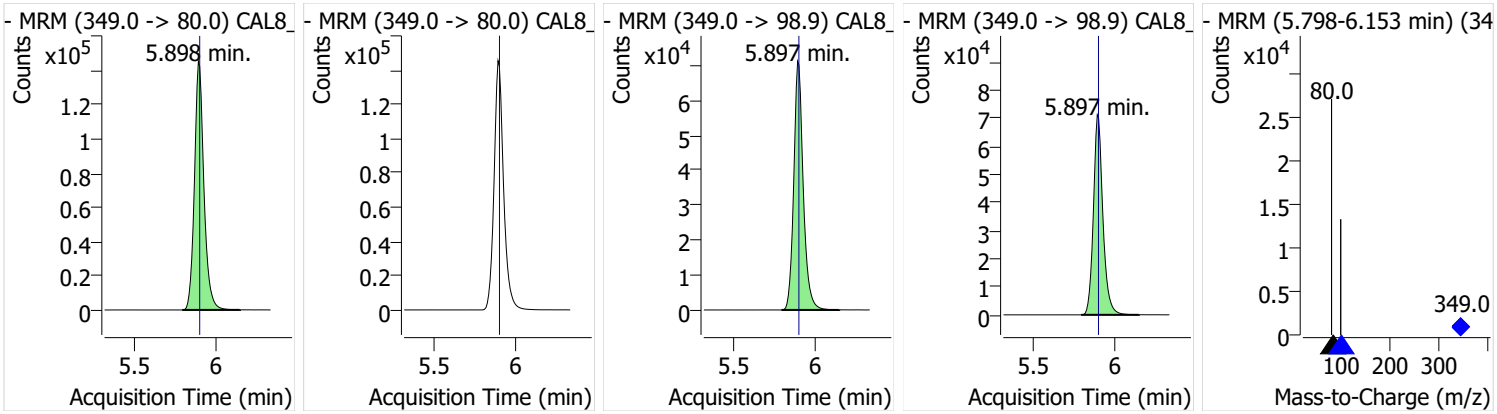

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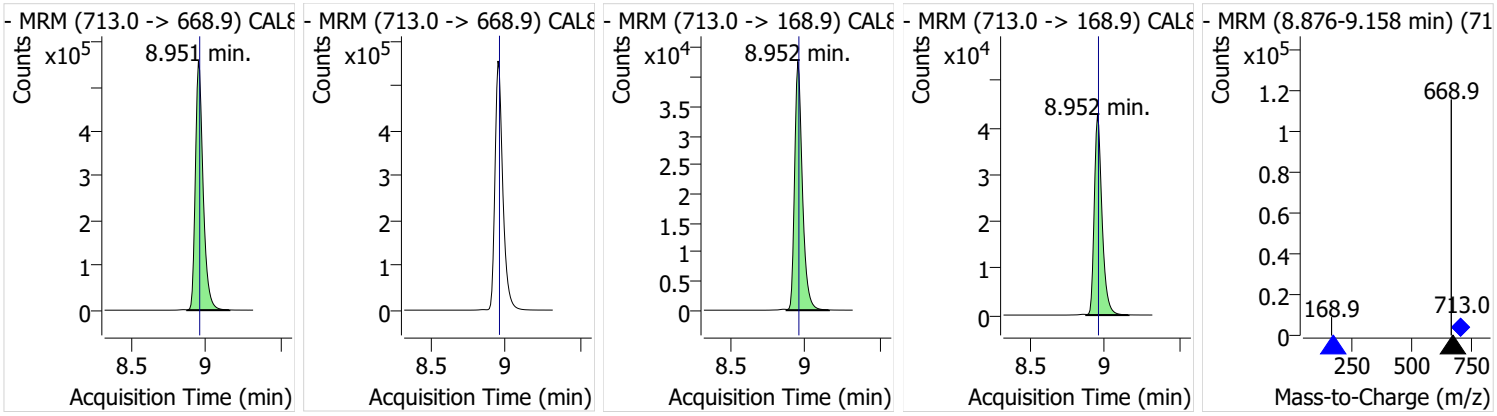

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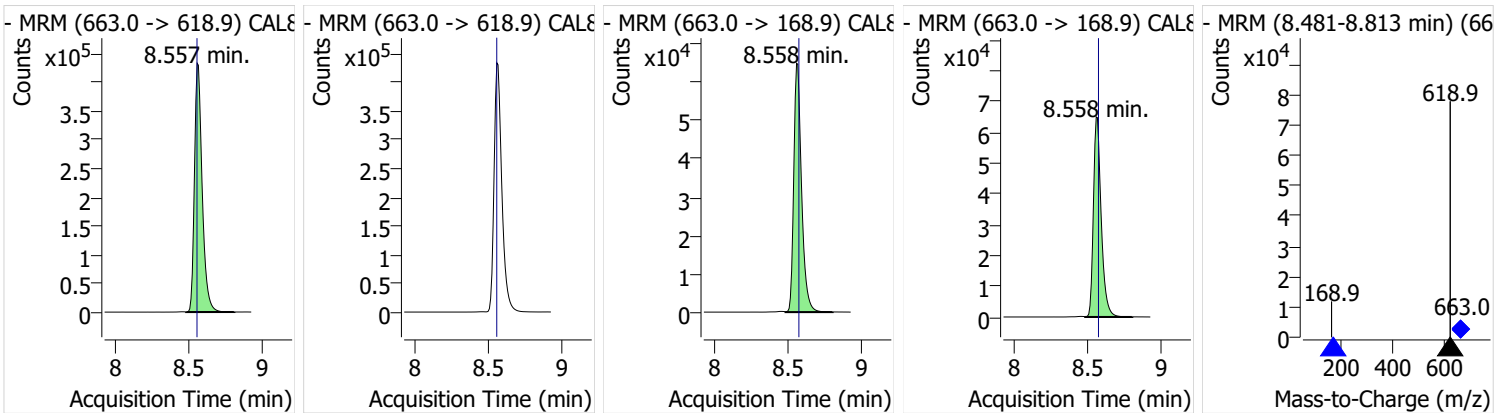

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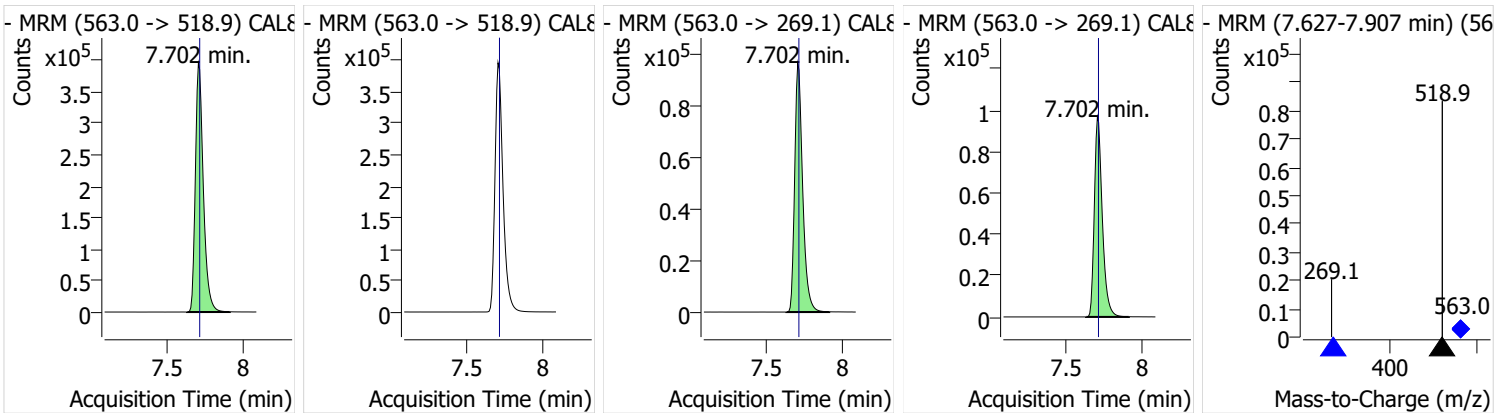

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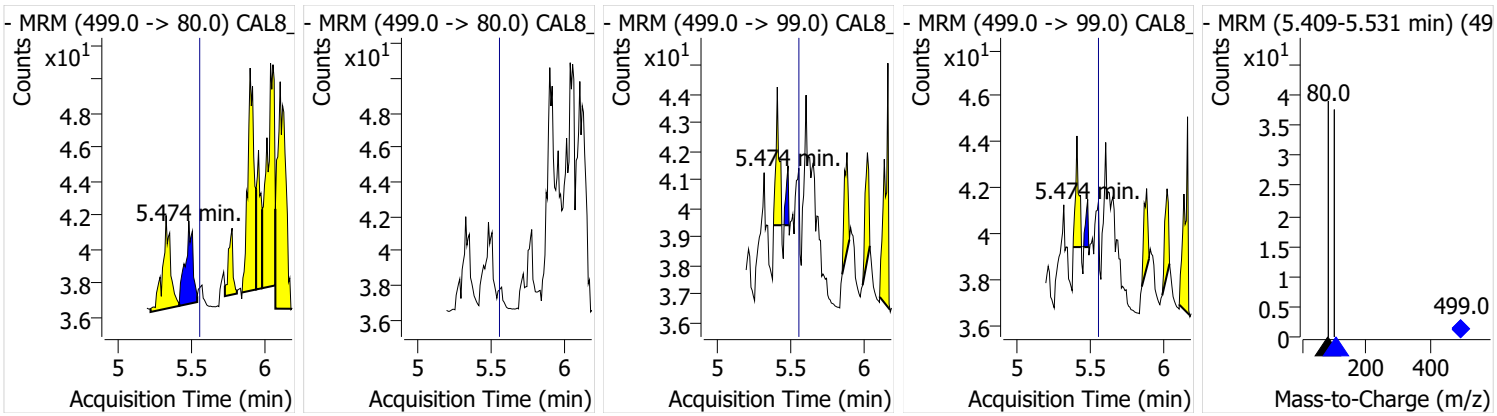

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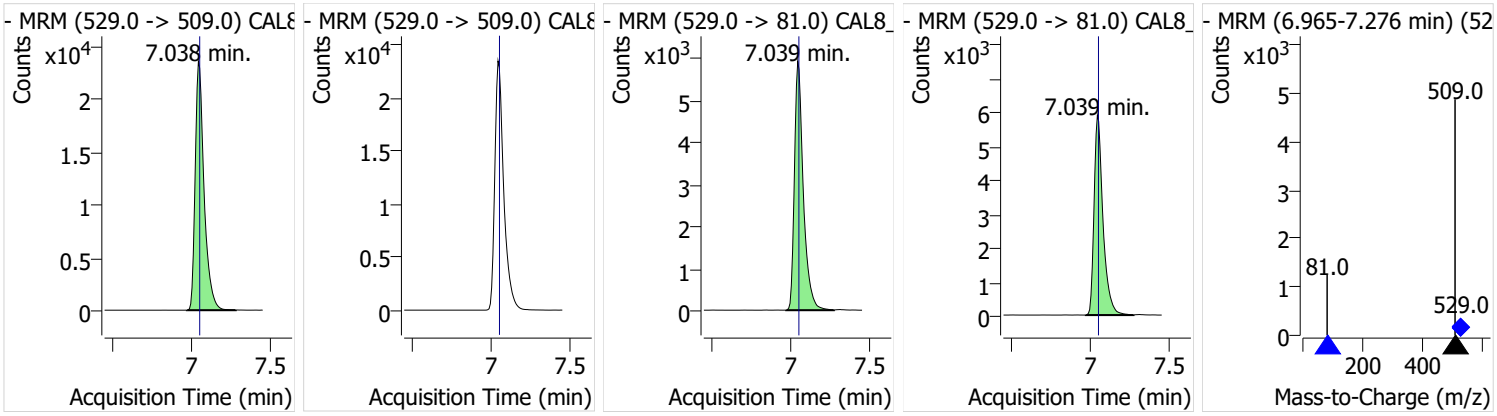

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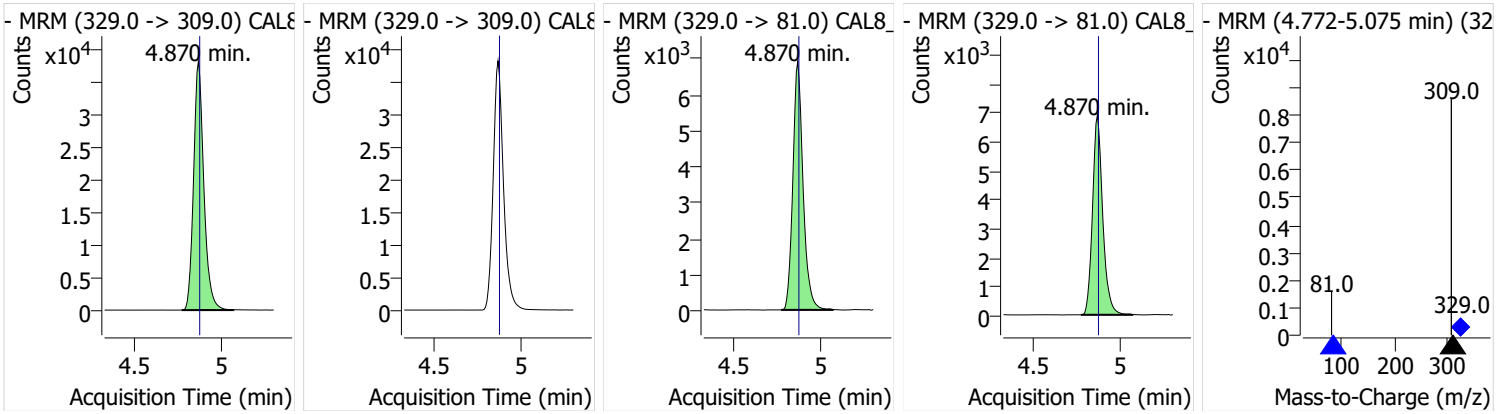

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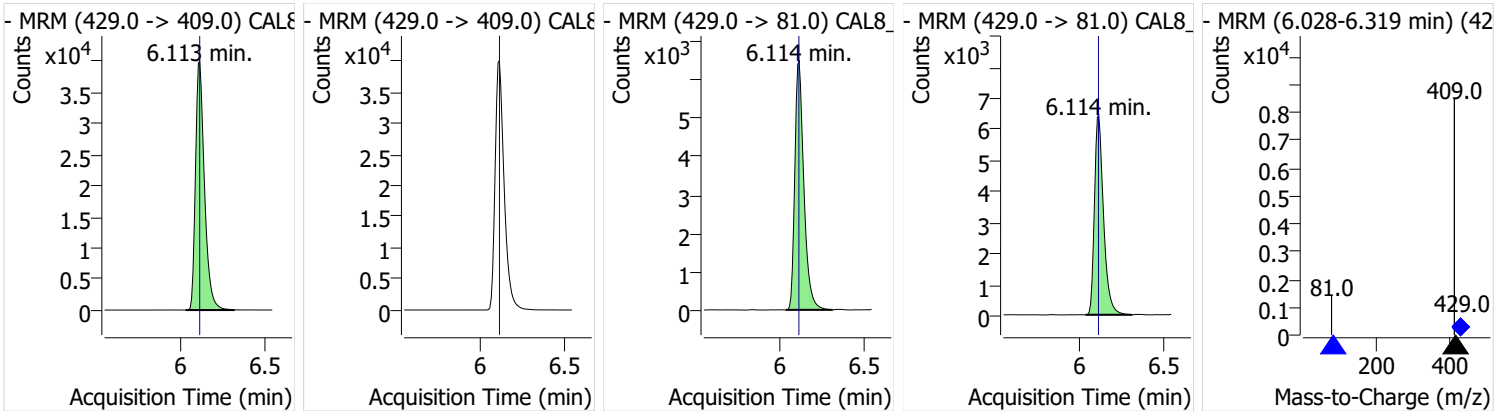

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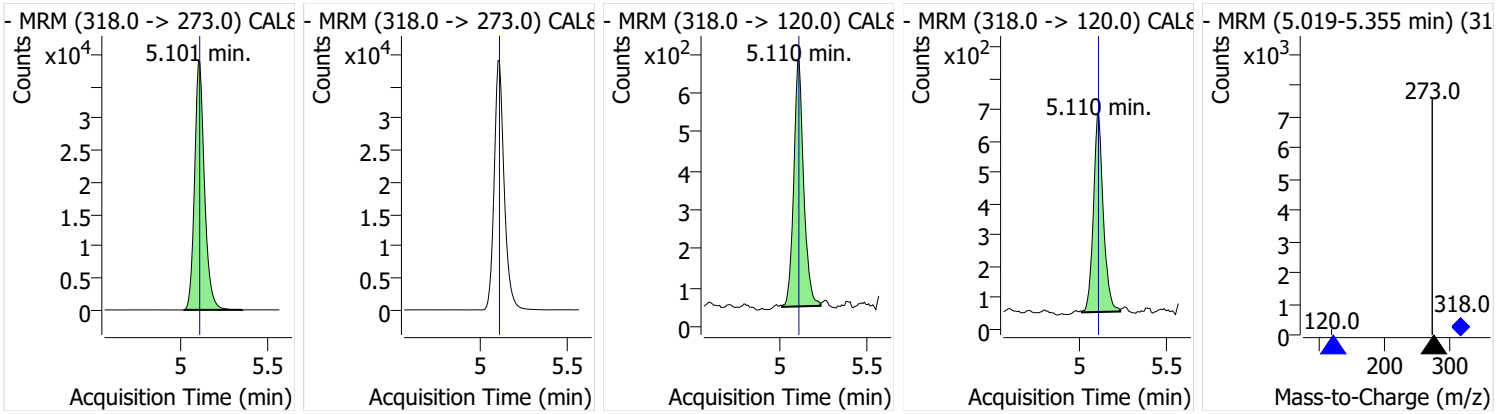

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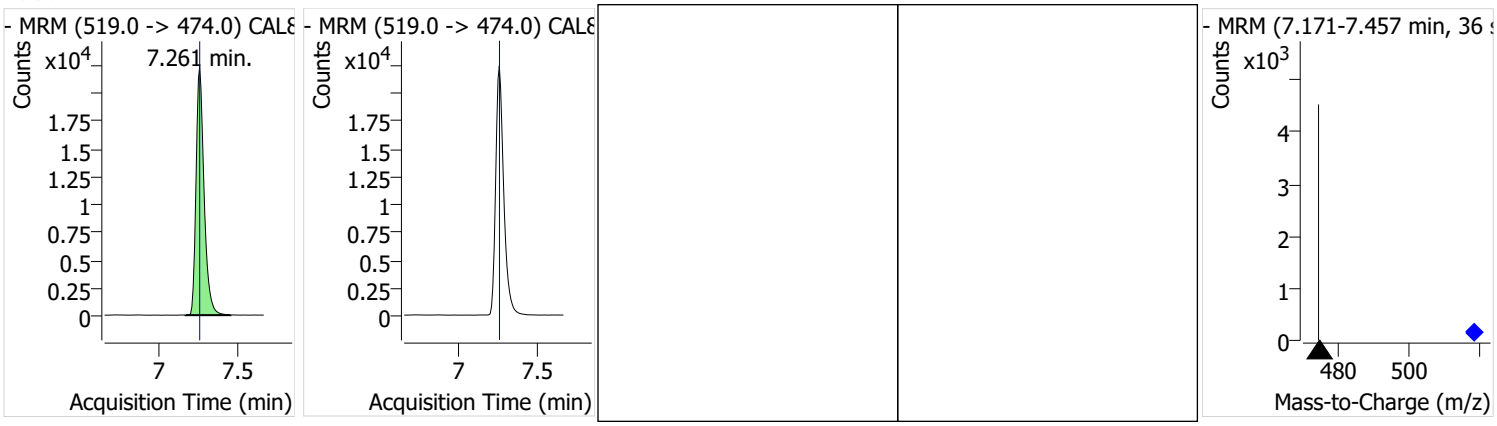

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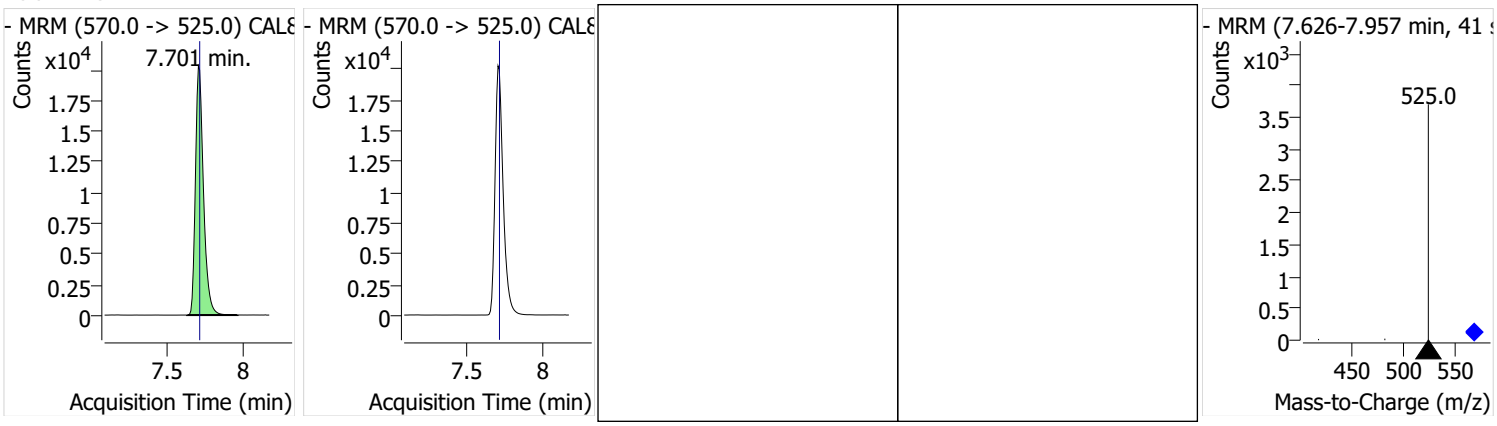

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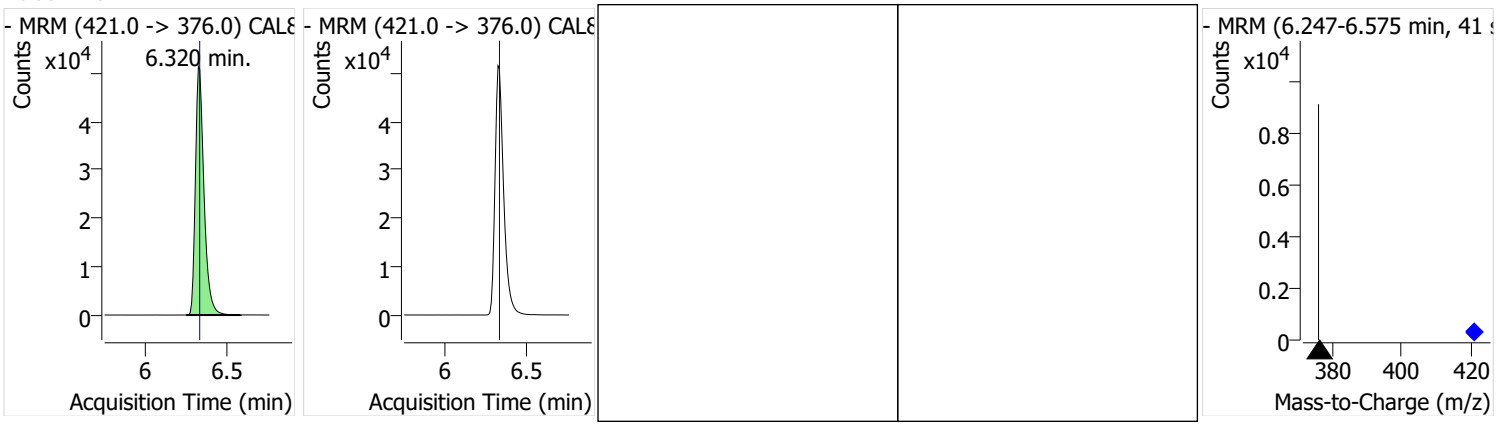

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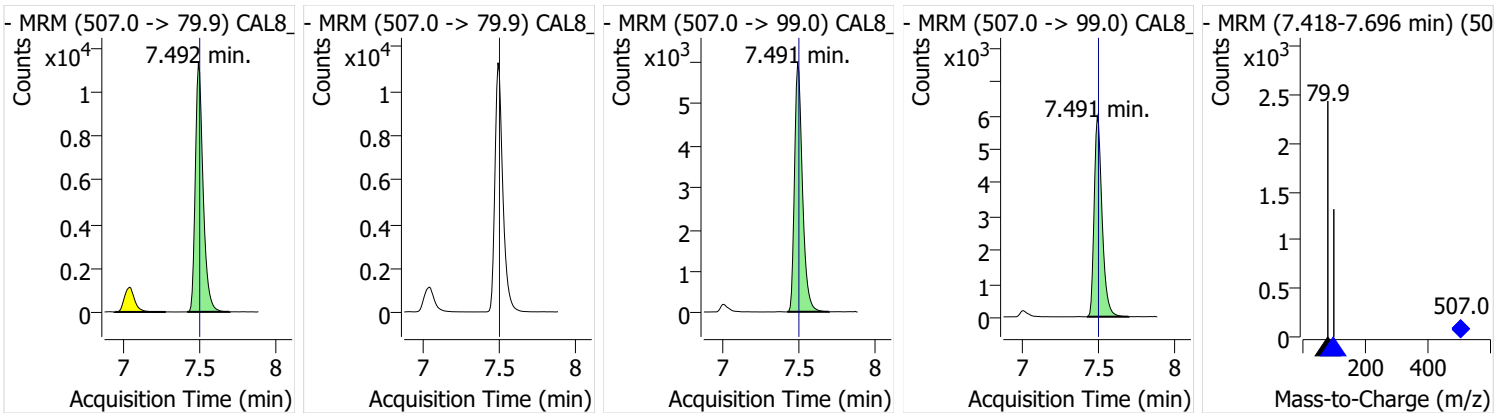

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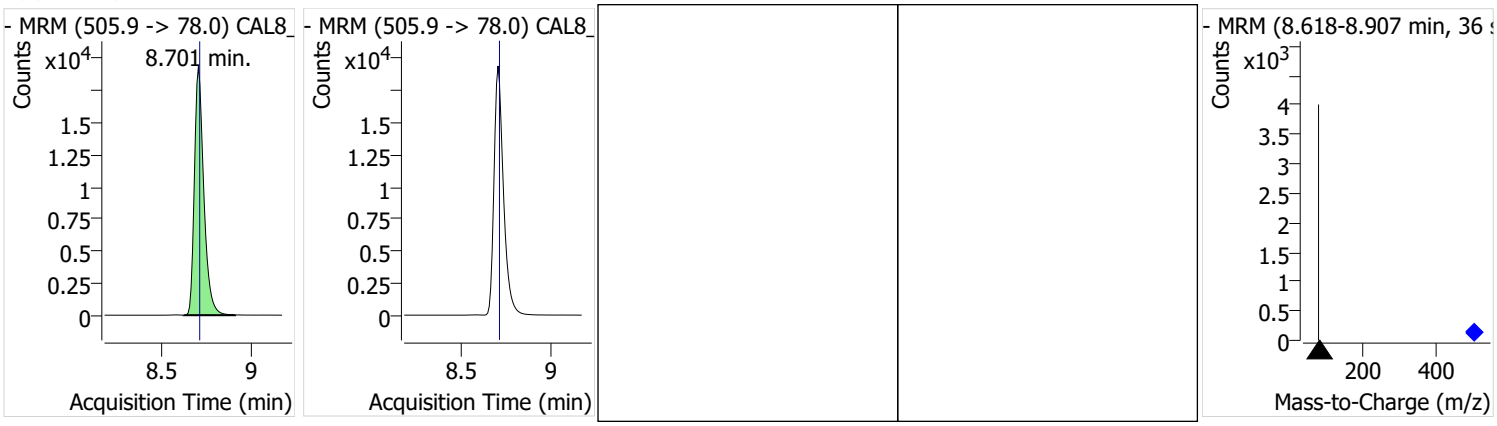

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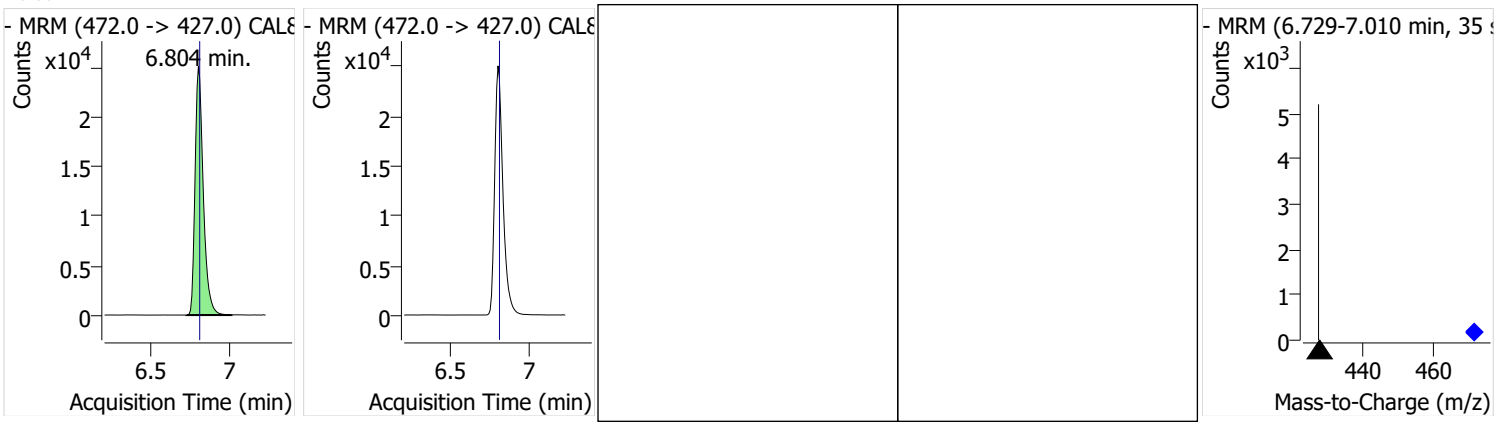

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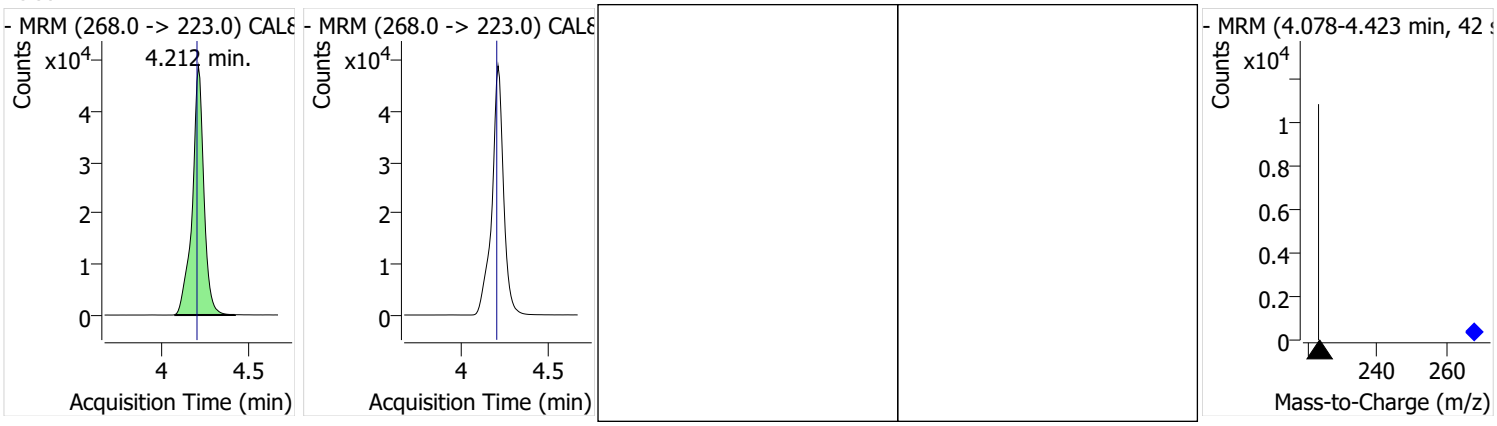

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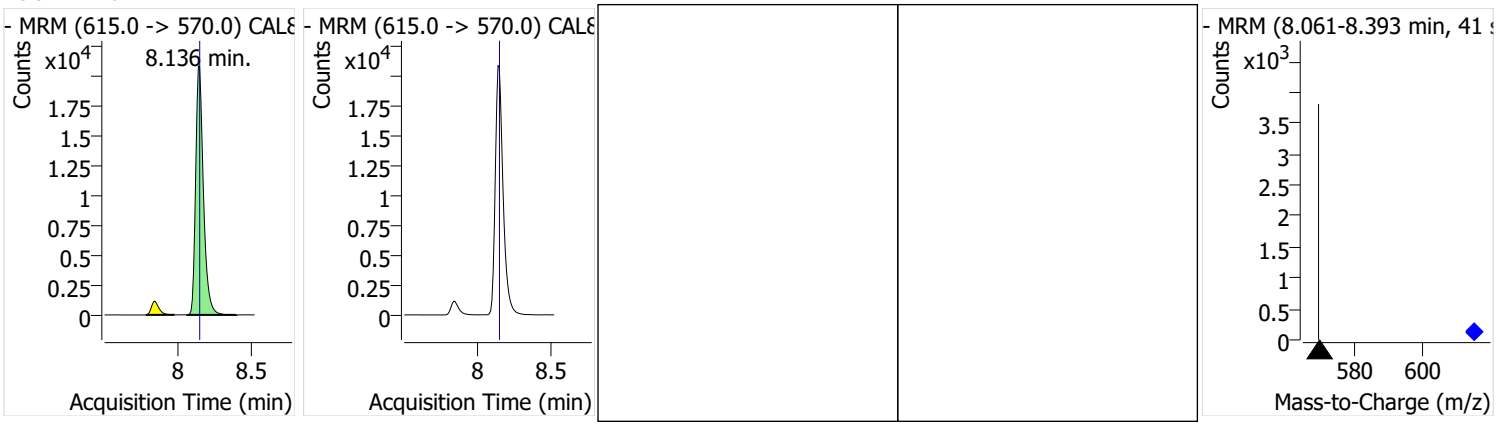

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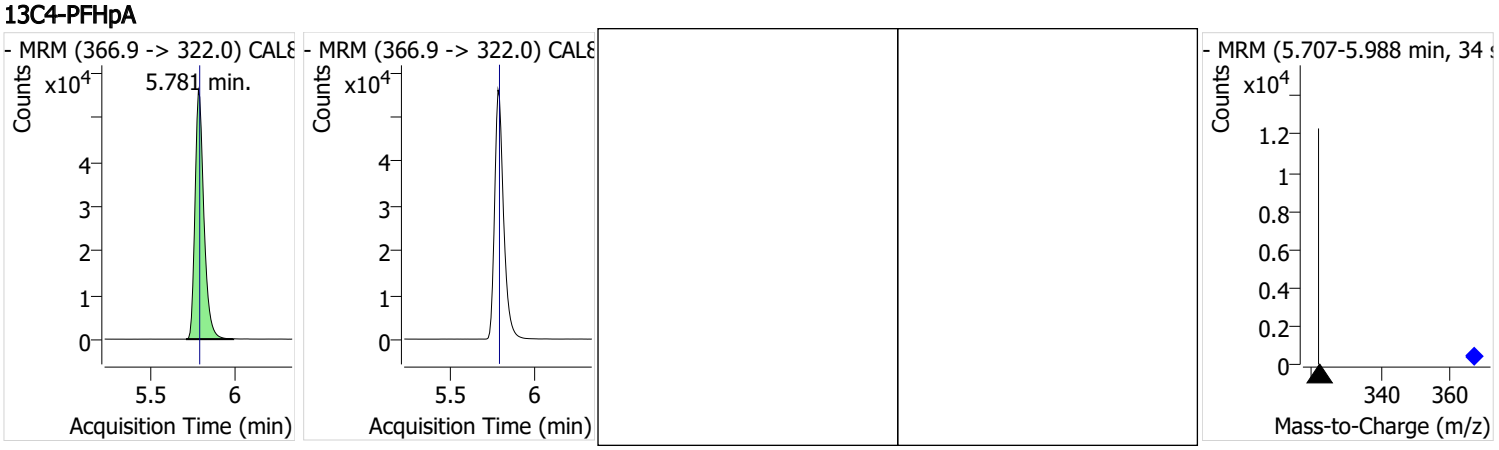

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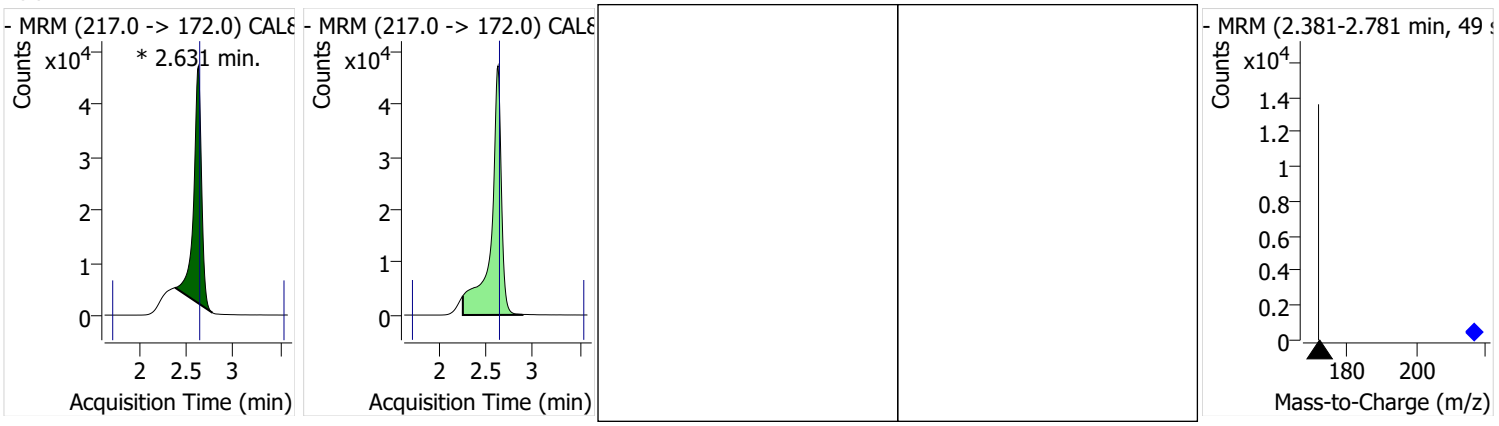

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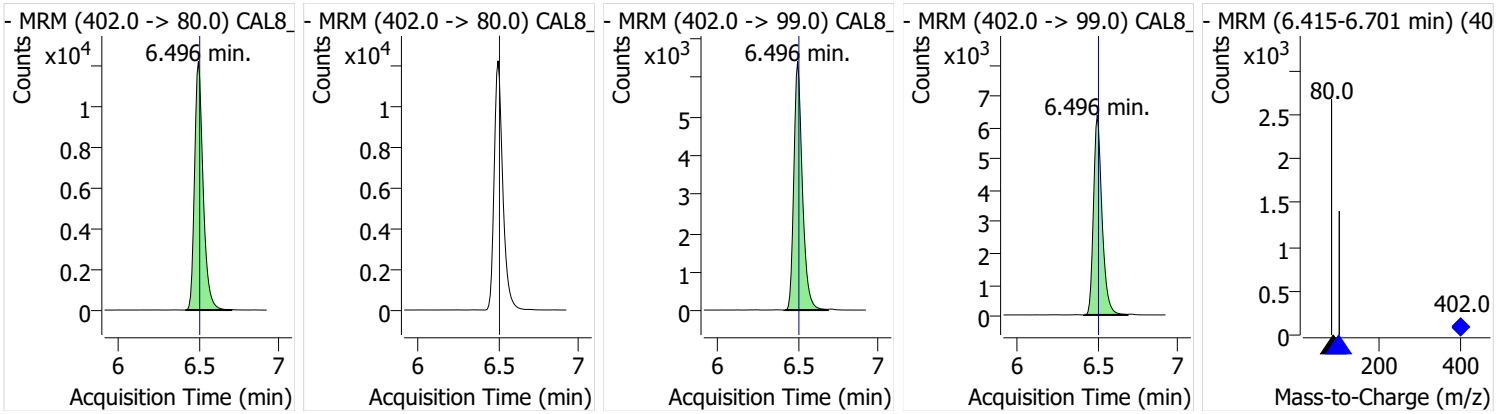

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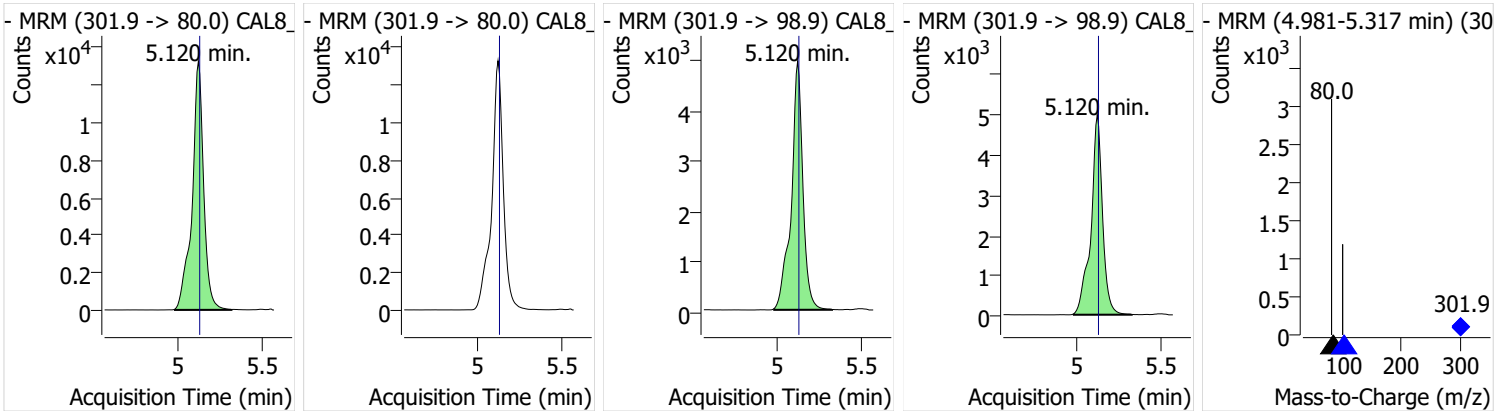

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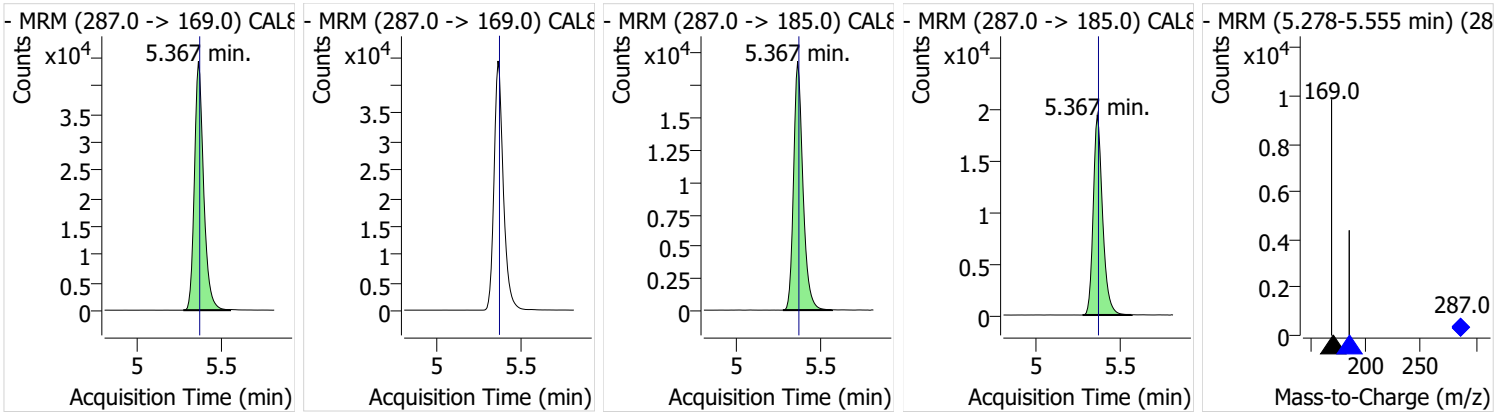

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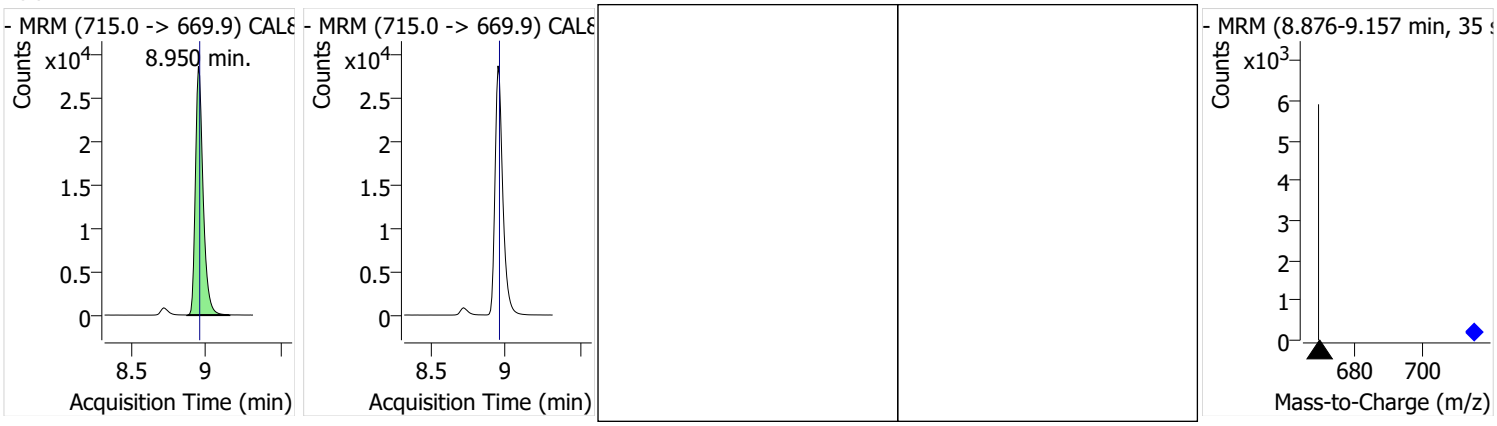

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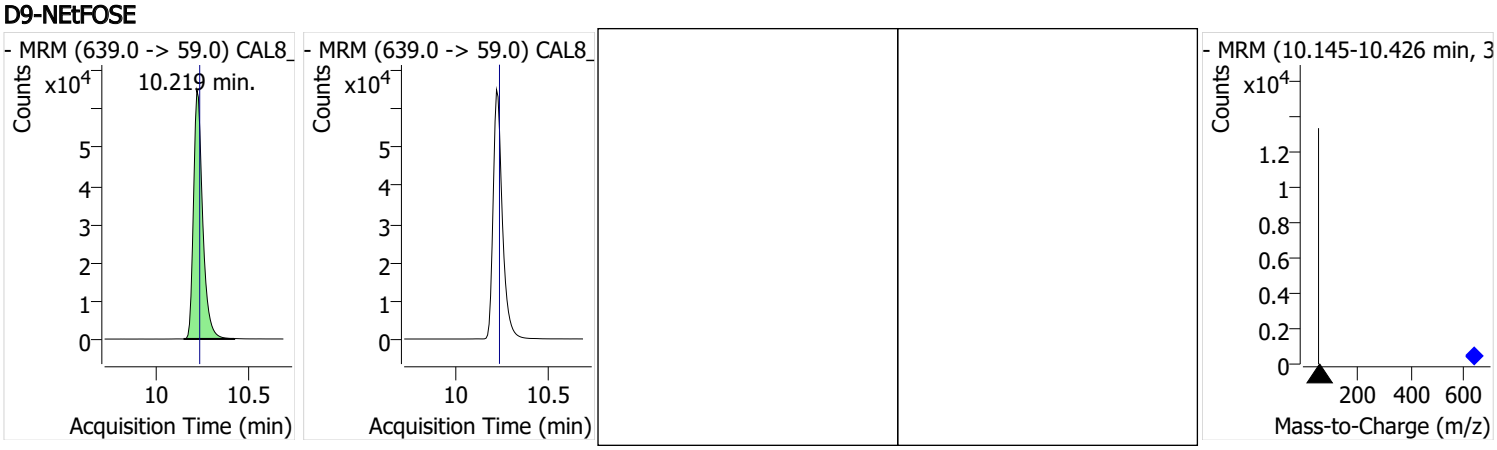

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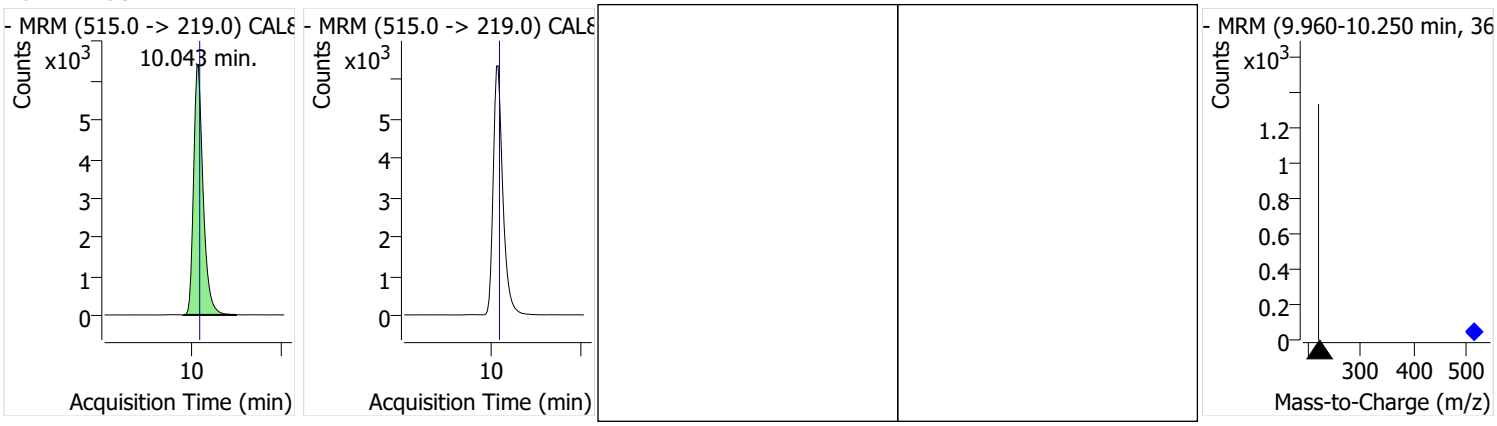

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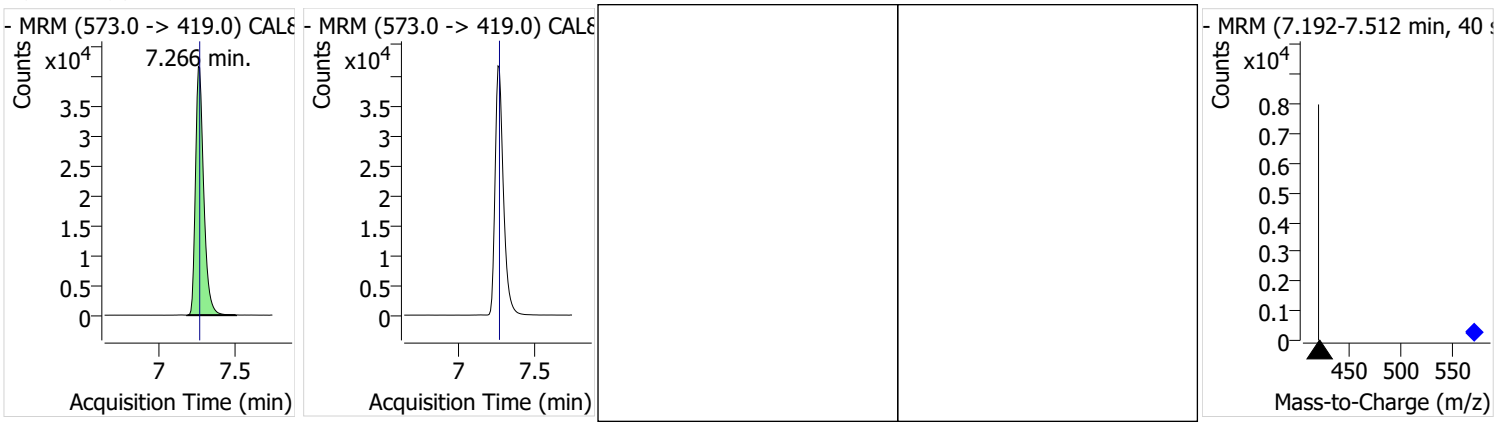

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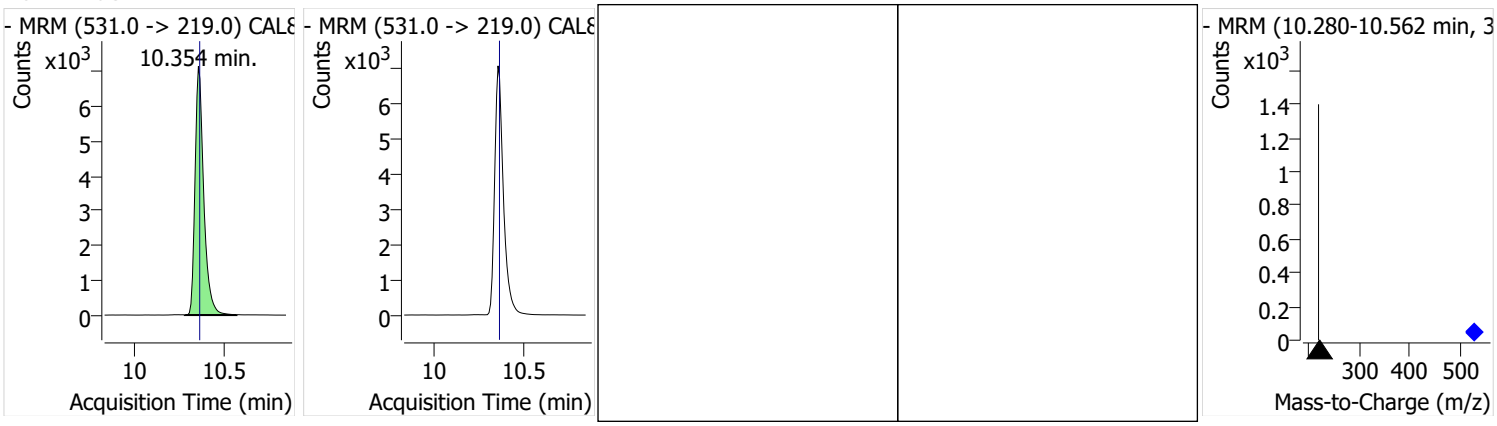

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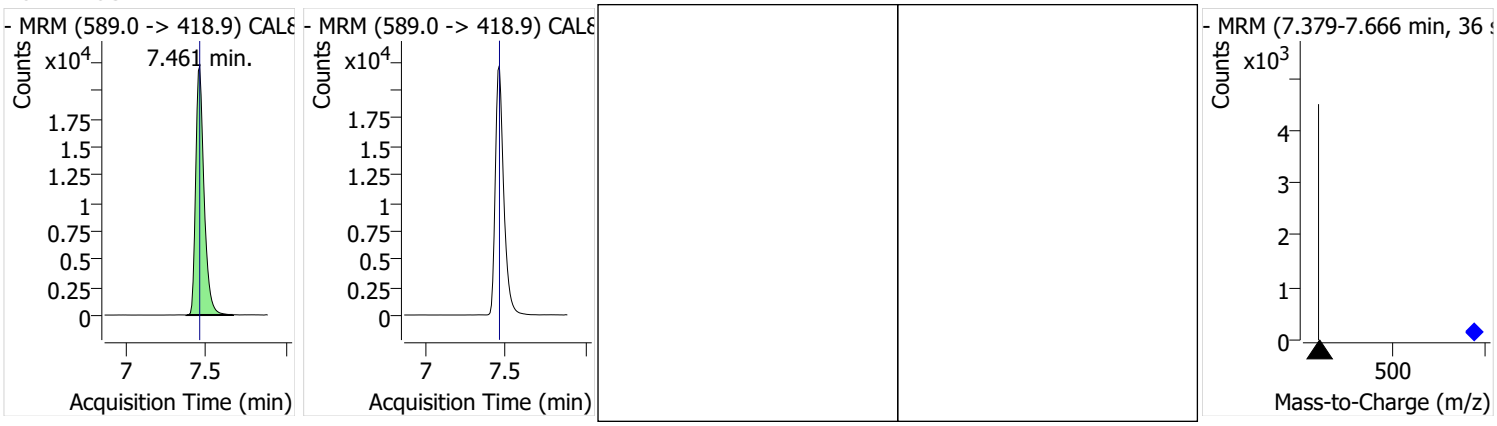

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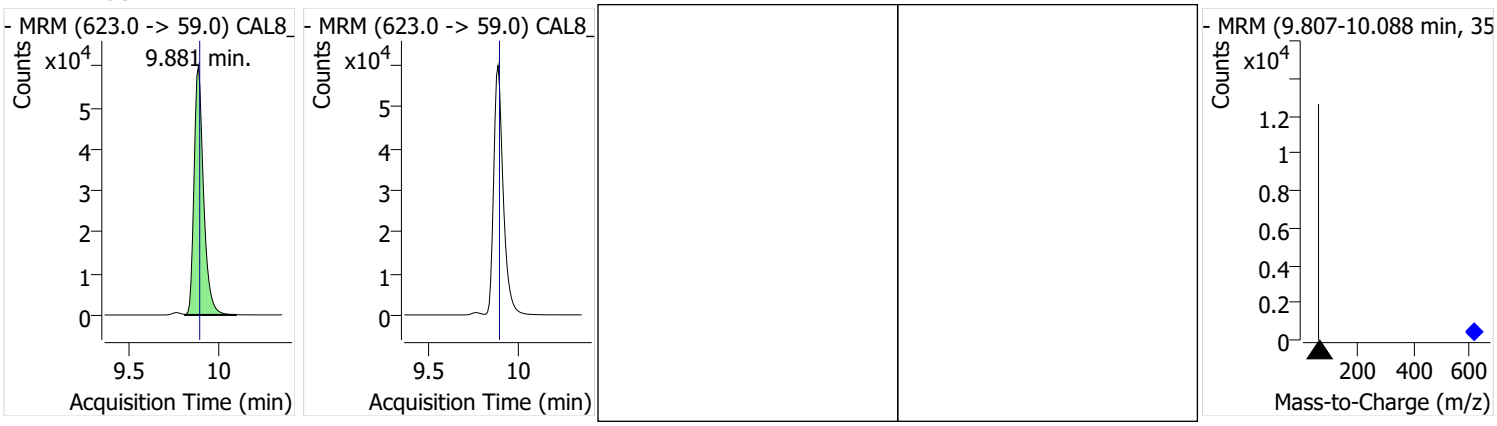

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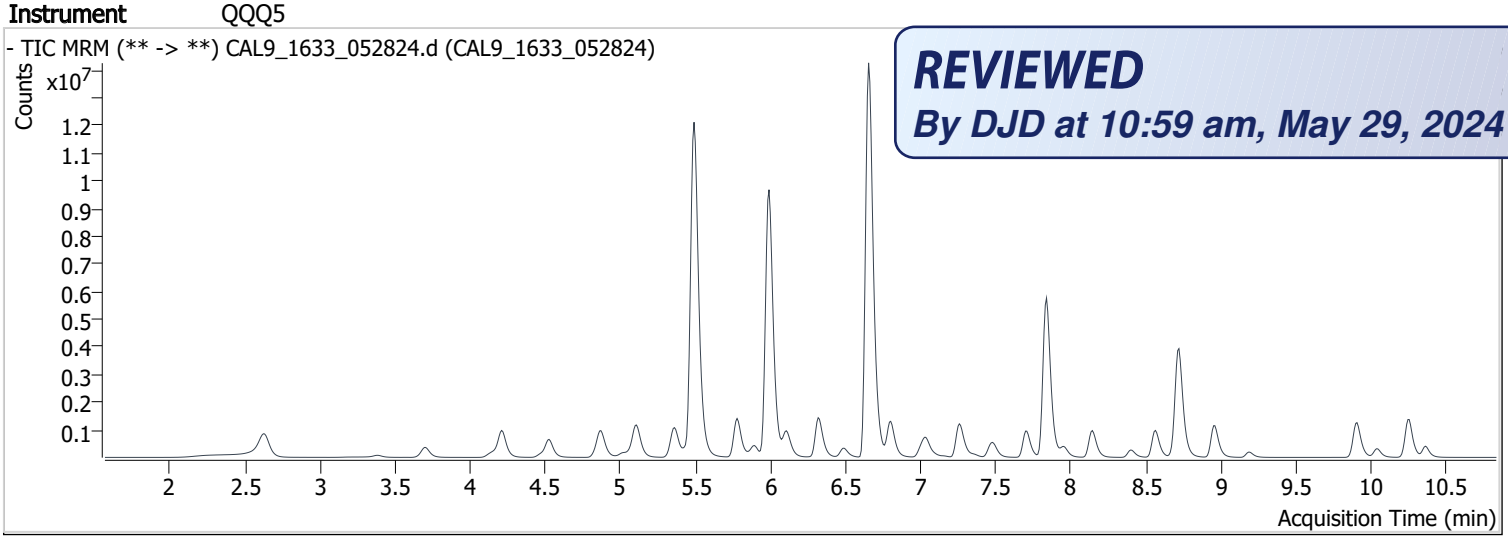
Acq. Time	5/28/2024 12:01 PM	**Data File**	CAL9_1633_052824.d
Sample Type	Cal	**Sample Name**	CAL9_1633_052824
Dilution	1	**Acq. Method**	1633_ACQUISITION.m
Sample Comment	E#24E0162	**Processing method**	1633_050624.m
Instrument	QQQ5		



REVIEWED
By DJD at 10:59 am, May 29, 2024

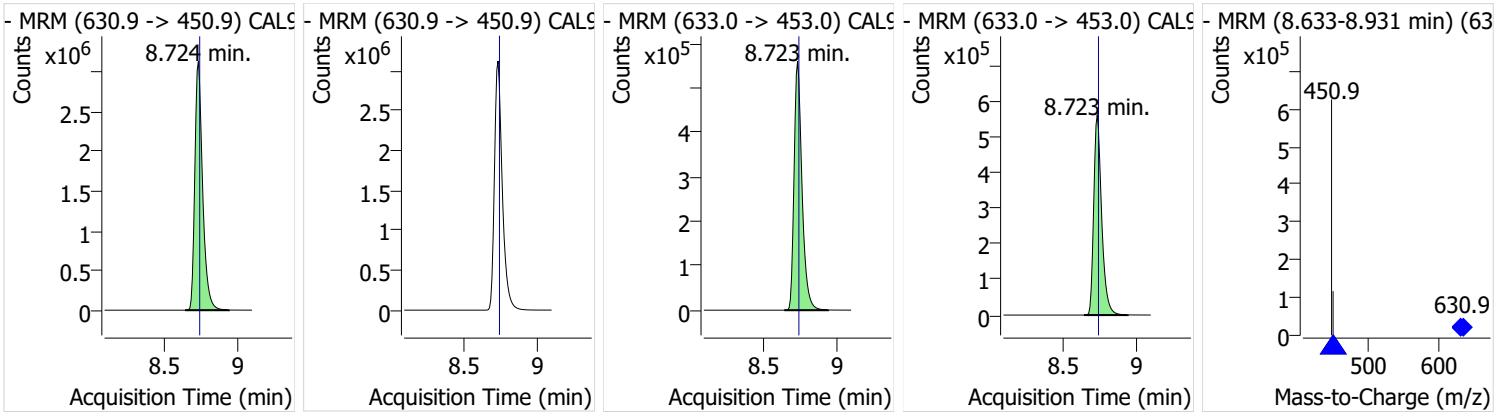
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
11Cl-PF3OUdS	8.724	11481486	295539 0.70		13C3-HFPODA - ISTD	5.367	156974	193.4221	ng/ml			
633.0 -> 453.0			499358 .17	18.2								
3:3FTCA	3.707	1040479	421726 .91		13C5-PFPeA - ISTD	4.212	212132	558.0947	ng/ml			
241.0 -> 117.0			50679. 61	51.4								
4:2FTS	4.871	2897188	128309 6.86		13C2-4:2FTS - ISTD	4.870	25787	178.5478	ng/ml			
327.0 -> 80.9			181492 .40	35.0								
5:3FTCA	5.493	20527630	122635 4.31		13C5-PFHxA - ISTD	5.101	139712	2861.0866	ng/ml			
341.0 -> 217.0			719451 .65	89.0								
6:2FTS	6.106	2184295	800514 .96		13C2-6:2FTS - ISTD	6.105	21825	176.0373	ng/ml			
427.0 -> 80.9			165569 .39	36.6								
7:3FTCA	6.657	27710678	10415. 67		13C5-PFHxA - ISTD	5.101	139712	3083.9999	ng/ml			
441.0 -> 317.0			5493.0 2	90.7								
8:2FTS	7.039	1284179	504055 .50		13C2-8:2FTS - ISTD	7.039	21979	162.7346	ng/ml			
527.0 -> 81.0			188804 .46	58.7								
9Cl-PF3ONS	7.843	17126767	968072 .20		13C3-HFPODA - ISTD	5.367	156974	192.2143	ng/ml			
533.0 -> 353.0			73660. 14	23.7								
ADONA	5.995	26335686	745159 .93		13C3-HFPODA - ISTD	5.367	156974	223.3502	ng/ml			
377.0 -> 85.1			492176 .29	34.2								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA	5.368	2784141	501744.46		13C3-HFPODA - ISTD	5.367	156974	207.7435	ng/ml			
285.0 -> 184.9			74417.88	47.7								
NEtFOSA	10.364	625005	489927.94		D5-NEtFOSA - ISTD	10.354	22608	52.2270	ng/ml			
526.0 -> 219.0			319813.64	97.0								
NEtFOSAA	7.461	793814	8769.61		D5-NEtFOSAA - ISTD	7.461	72757	51.6024	ng/ml	✔	3	AMS 05/29/24
584.0 -> 526.0			1983.68	64.8								
NEtFOSE	10.253	4889899	551603.30		D9-NEtFOSE - ISTD	10.219	220877	482.0756	ng/ml			
NFDHA	5.023	379942	127866.93		13C5-PFHxA - ISTD	5.101	139712	97.0741	ng/ml			
295.0 -> 85.0			23188.99	30.1								
NMeFOSA	10.044	558563	360656.05		D3-NMeFOSA - ISTD	10.043	23562	50.5080	ng/ml			
512.0 -> 219.0			379242.50	91.0								
NMeFOSAA	7.275	542462	10418.74		D3-NMeFOSAA - ISTD	7.274	136009	54.6851	ng/ml	✔	3	AMS 05/29/24
570.0 -> 418.9			24363.66	59.3								
NMeFOSE	9.907	4574287	497436.02		D7-NMeFOSE - ISTD	9.881	206467	494.5765	ng/ml			
PFBA	2.628	4526338	86158.55		13C4-PFBA - ISTD	2.631	244636	204.3233	ng/ml	✔	3	AMS 05/29/24
PFBS	5.121	1252510	147071.96		13C3-PFBS - ISTD	5.120	57316	46.2629	ng/ml			
298.9 -> 98.8			91174.01	40.2								
PFDA	7.262	2970314	51382.43		13C6-PFDA - ISTD	7.261	71390	53.1144	ng/ml			
513.0 -> 219.0			82546.61	21.1								
PFDoA	8.145	2966667	121390.76		13C2-PFDoA - ISTD	8.145	71751	51.4919	ng/ml			
613.0 -> 319.0			42924.71	17.3								
PFDoS	9.189	425328	139600.54		13C8-PFOS - ISTD	7.492	36306	48.0061	ng/ml			
698.9 -> 99.0			108106.37	66.0								
PFDS	8.403	613544	115097.19		13C8-PFOS - ISTD	7.492	36306	48.3089	ng/ml			
599.0 -> 98.8			189379.67	59.1								
PFEESA	5.503	7271875	593662.24		13C5-PFHxA - ISTD	5.101	139712	88.7545	ng/ml			
315.0 -> 83.0			106799.06	6.9								
PFHpA	5.781	4266285	55680.67		13C4-PFHpA - ISTD	5.781	192918	53.4106	ng/ml			
362.9 -> 169.0			128821.40	14.9								
PFHpS	7.011	840824	85757.56		13C8-PFOS - ISTD	7.492	36306	48.1942	ng/ml			
449.0 -> 98.8			67342.83	52.2								

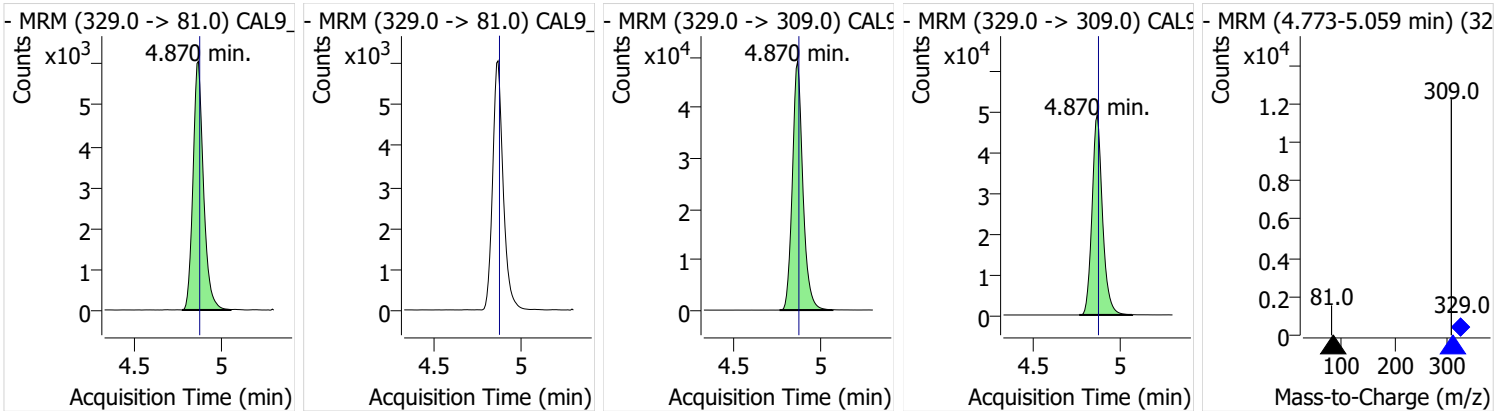
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFHxA	5.103	2936285	80412.93		13C5-PFHxA - ISTD	5.101	139712	53.6342	ng/ml			
313.0 -> 118.9			8145.84	2.9								
PFHxS	6.497	934476	1934.71		13C3-PFHxS - ISTD	6.496	41478	47.2364	ng/ml	✔	3	AMS 05/29/24
398.9 -> 99.0			8032.83	48.1								
PFMBA	4.530	2914876	649135.47		13C5-PFPeA - ISTD	4.212	212132	104.3648	ng/ml			
PFMPA	3.382	305320	1080.01		13C5-PFPeA - ISTD	4.212	212132	103.2637	ng/ml	✔	3	AMS 05/29/24
PFNA	6.804	3432891	105099.16		13C9-PFNA - ISTD	6.804	80612	54.0558	ng/ml			
463.0 -> 219.0			294748.44	22.7								
PFNS	7.959	767428	77042.85		13C8-PFOS - ISTD	7.492	36306	49.0778	ng/ml			
549.0 -> 98.8			149903.00	54.8								
PFOA	6.321	3933091	8387.37		13C8-PFOA - ISTD	6.320	167733	51.0655	ng/ml			
413.0 -> 169.0			135318.58	22.9								
PFOS	7.493	839291	1821.28		13C8-PFOS - ISTD	7.492	36306	47.6794	ng/ml	✔	3	AMS 05/29/24
499.0 -> 99.0			40323.30	50.3								
PFOSA	8.702	1423331	634596.65		13C8-PFOSA - ISTD	8.701	63822	51.7709	ng/ml			
497.9 -> 478.0			372550.99	2.4								
PFPeA	4.214	4385593	140281.42		13C5-PFPeA - ISTD	4.212	212132	104.9270	ng/ml			
263.0 -> 69.0			7961.82	0.2								
PFPeS	5.898	1116256	106402.78		13C3-PFHxS - ISTD	6.496	41478	49.6787	ng/ml			
349.0 -> 98.9			127650.97	49.5								
PFTeDA	8.951	3833168	188489.12		13C2-PFTeDA - ISTD	8.958	96948	51.0659	ng/ml			
713.0 -> 168.9			216289.05	7.5								
PFTrDA	8.565	3122058	198110.91		13C2-PFDoA - ISTD	8.145	71751	52.3372	ng/ml			
663.0 -> 168.9			118348.10	14.5								
PFUnA	7.702	2755847	42902.93		13C7-PFUnA - ISTD	7.709	66834	53.1821	ng/ml			
563.0 -> 269.1			159208.63	24.6								
TDCA	5.908	14	3.89					-	ng/ml			
499.0 -> 99.0			58.88	*813.4								
13C2-8:2FTS	7.038	123045	178607.52		18O2-PFHxS	6.495	39304	11.4634	ng/ml			
529.0 -> 81.0			2334.05	*17.9								
13C2-4:2FTS	4.870	209997	56771.56		18O2-PFHxS	6.495	39304	10.4950	ng/ml			

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
329.0 -> 81.0			7823.04	*12.3								
13C2-6:2FTS	6.105	199362	45409.28		18O2-PFHxS	6.495	39304	11.2096	ng/ml			
429.0 -> 81.0			2302.68	*10.9								
13C5-PFHxA	5.101	139712	11820.98		13C2-PFHxA	5.102	131050	2.5162	ng/ml			
318.0 -> 120.0			222.58	1.7								
13C6-PFDA	7.261	71390	4582.26		13C2-PFDA	7.262	70628	1.2694	ng/ml			
13C7-PFUnA	7.709	66834	9480.00		13C2-PFDA	7.262	70628	1.2711	ng/ml			
13C8-PFOA	6.320	167733	40097.24		13C4-PFOA	6.320	19726	2.5988	ng/ml			
13C8-PFOS	7.492	36306	2374.61		13C4-PFOS	7.492	38277	2.5573	ng/ml			
507.0 -> 99.0			2702.59	54.0								
13C8-PFOSA	8.701	63822	828679.95		13C4-PFOS	7.492	38277	2.4878	ng/ml			
13C9-PFNA	6.804	80612	8492.67		13C5-PFNA	6.804	102798	1.2745	ng/ml			
13C5-PFPeA	4.212	212132	20887.53		13C2-PFHxA	5.102	131050	5.1521	ng/ml			
13C2-PFDoA	8.145	71751	10424.18		13C2-PFDA	7.262	70628	1.3221	ng/ml			
13C4-PFHpA	5.781	192918	22269.59		13C2-PFHxA	5.102	131050	2.6633	ng/ml			
13C4-PFBA	2.631	246808	55608.68		13C3-PFBA	2.625	108860	10.3783	ng/ml	✔	3	AMS 05/29/24
13C3-PFHxS	6.496	41478	118914.55		18O2-PFHxS	6.495	39304	2.5715	ng/ml			
402.0 -> 99.0			7396.88	52.5								
13C3-PFBS	5.120	57316	10407.00		18O2-PFHxS	6.495	39304	2.4556	ng/ml			
301.9 -> 98.9			4994.25	37.2								
13C3-HFPODA	5.367	156974	34556.95		13C2-PFHxA	5.102	131050	9.8574	ng/ml			
287.0 -> 185.0			4024.72	41.0								
13C2-PFTeDA	8.958	96948	179071.94		13C2-PFDA	7.262	70628	1.3248	ng/ml			
D9-NEtFOSE	10.219	220877	76505.45		13C4-PFOS	7.492	38277	26.6151	ng/ml			
D3-NMeFOSA	10.043	23562	16199.93		13C4-PFOS	7.492	38277	2.8115	ng/ml			
D3-NMeFOSAA	7.274	136009	17417.83		13C4-PFOS	7.492	38277	4.7812	ng/ml			
D5-NEtFOSA	10.354	22608	6100.87		13C4-PFOS	7.492	38277	2.6499	ng/ml			
D5-NEtFOSAA	7.461	72757	15825.44		13C4-PFOS	7.492	38277	5.1089	ng/ml			
D7-NMeFOSE	9.881	206467	169739.28		13C4-PFOS	7.492	38277	26.6221	ng/ml			

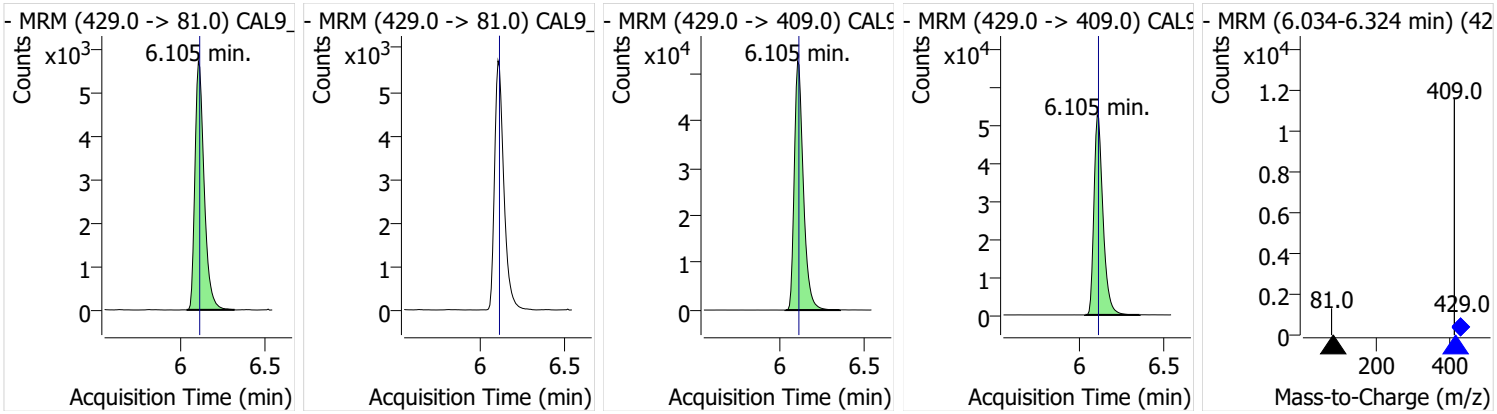
11Cl-PF3OUdS



13C2-4:2FTS - ISTD



13C2-6:2FTS - ISTD



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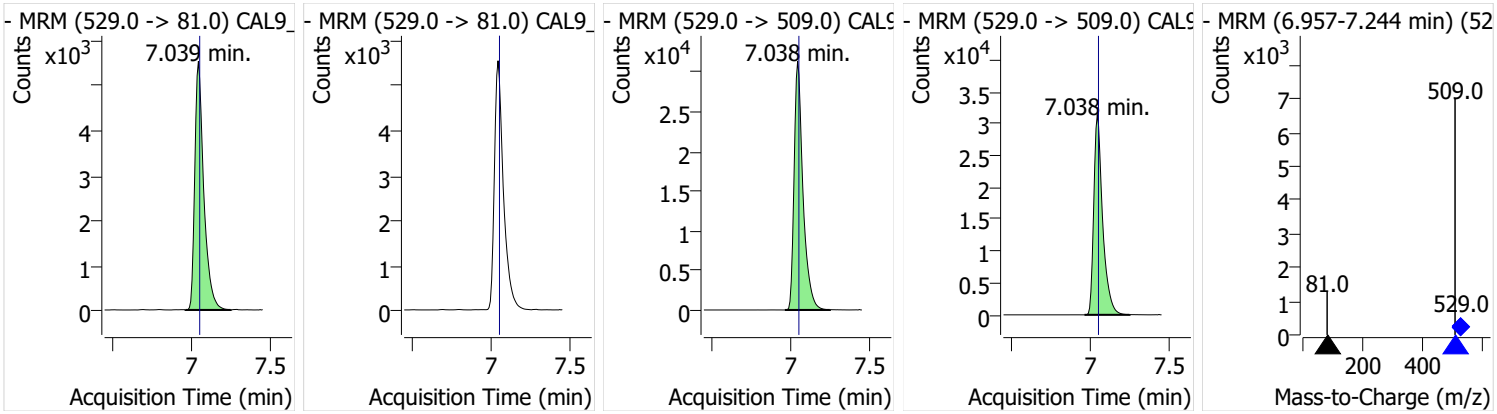
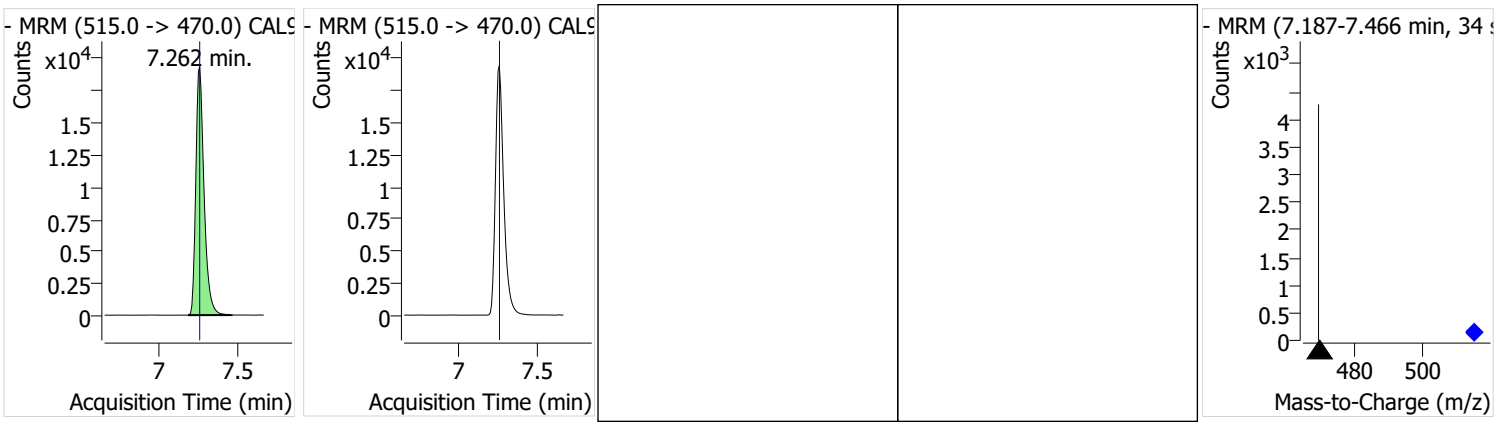
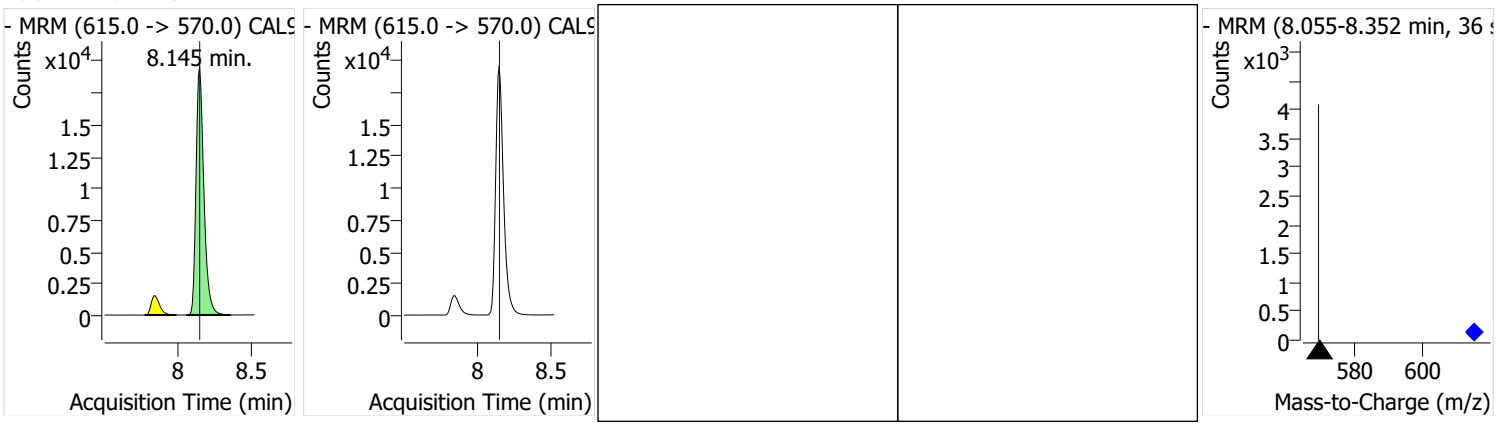


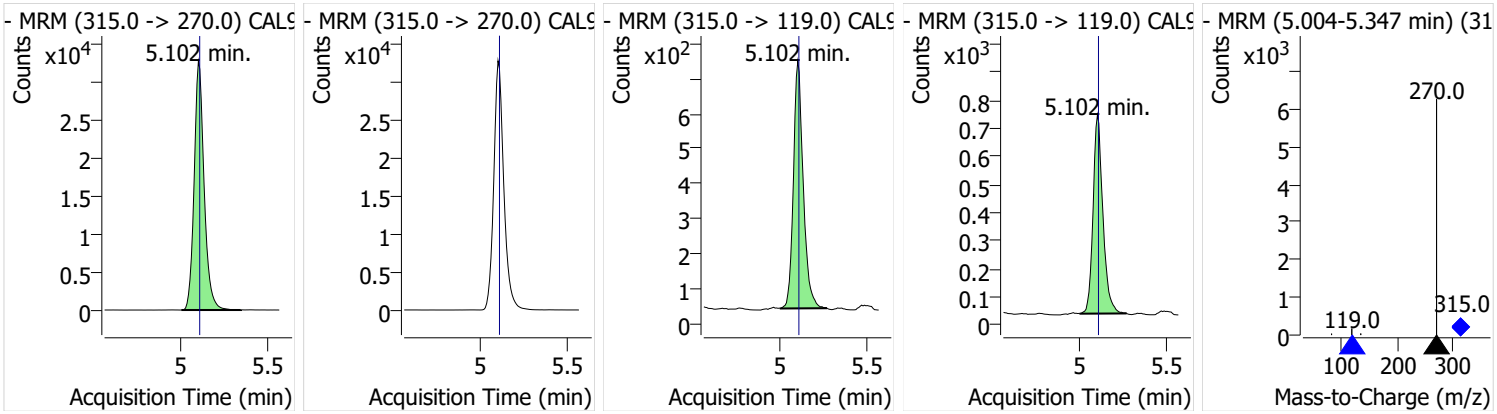
13C2-PFDA



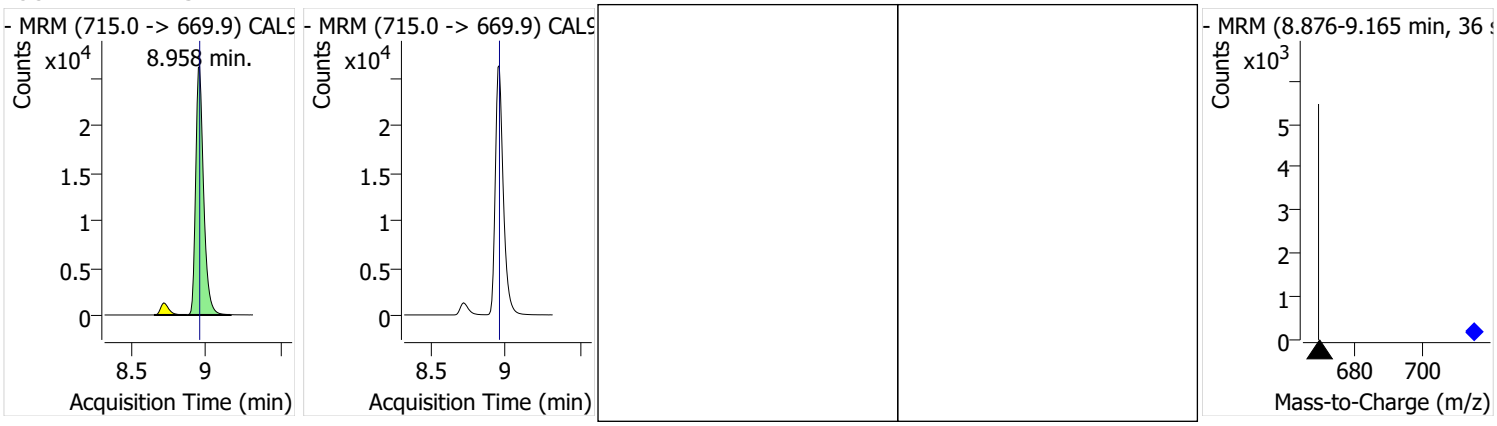
13C2-PFDoA - ISTD



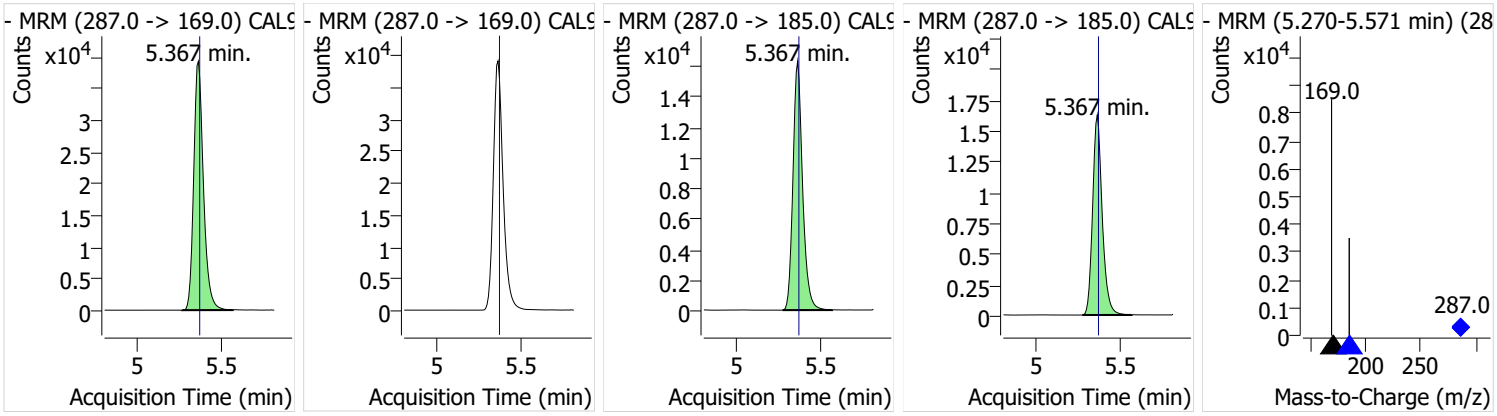
13C2-PFHxA



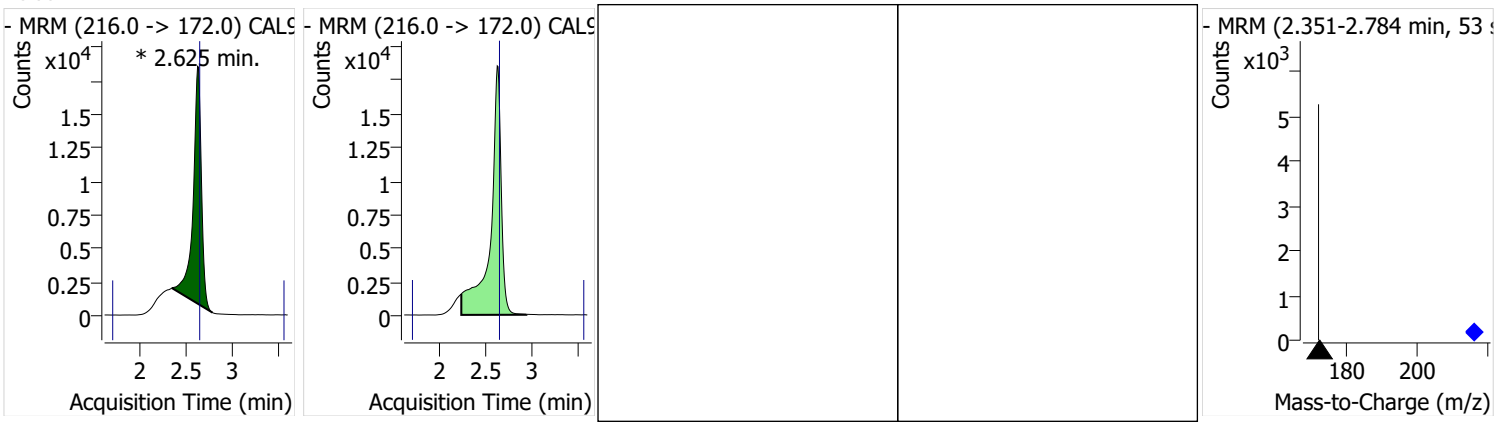
13C2-PFTeDA - ISTD



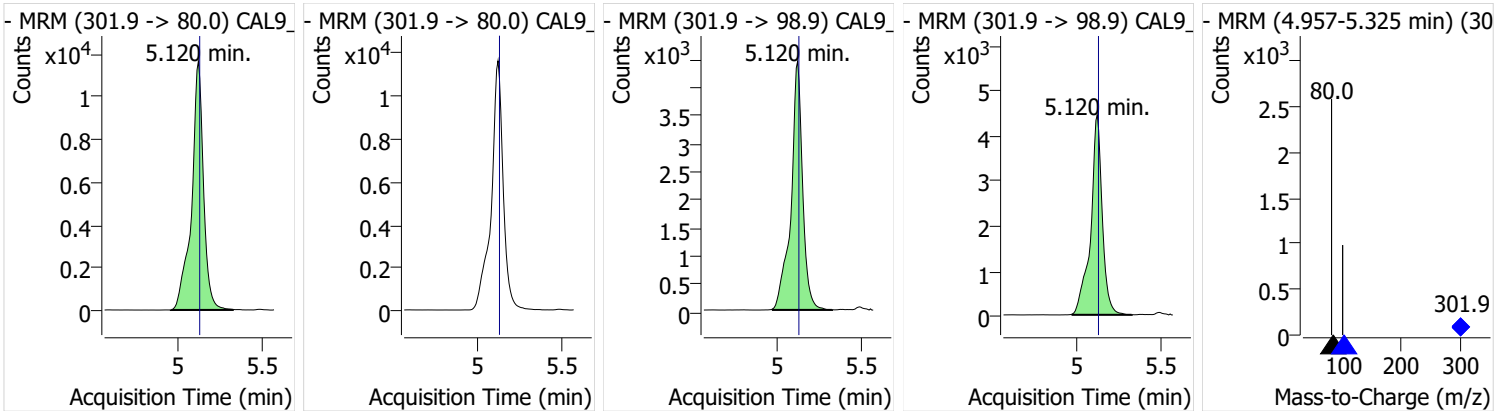
13C3-HFPODA - ISTD



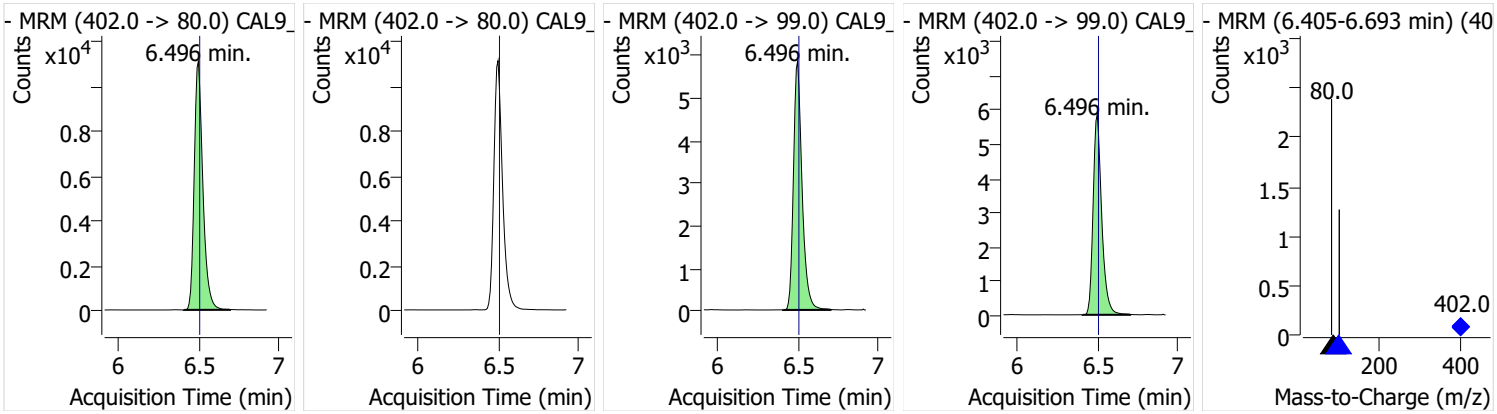
13C3-PFBA



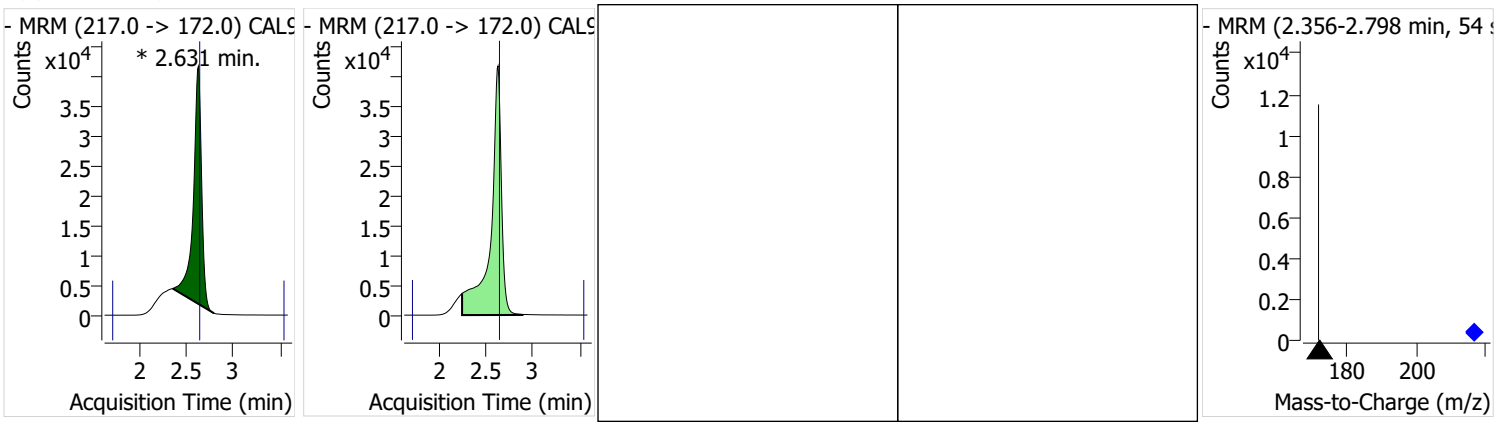
13C3-PFBS - ISTD



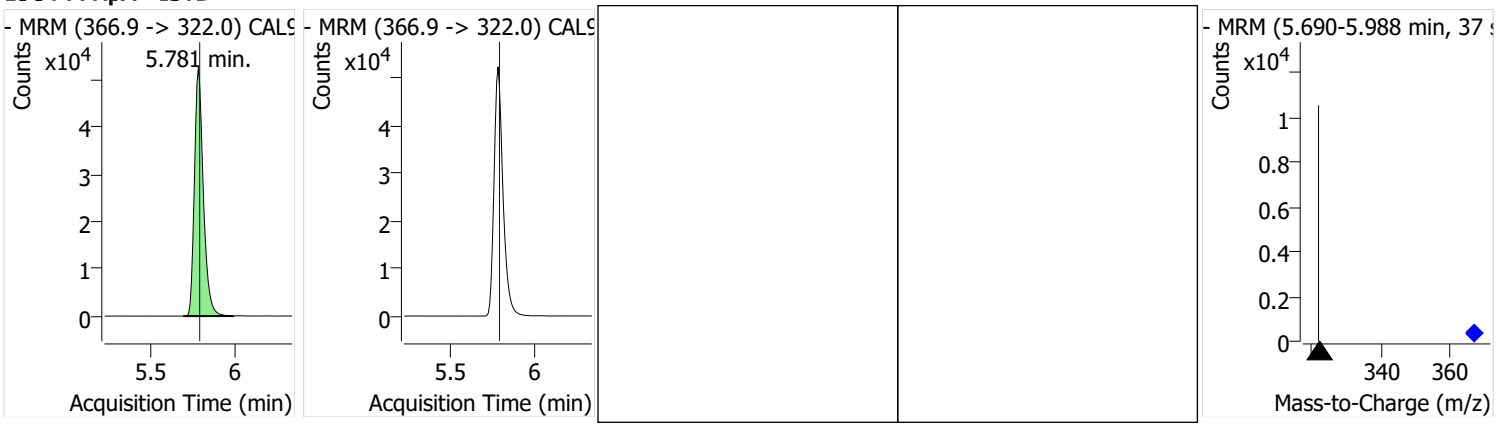
13C3-PFHxS - ISTD



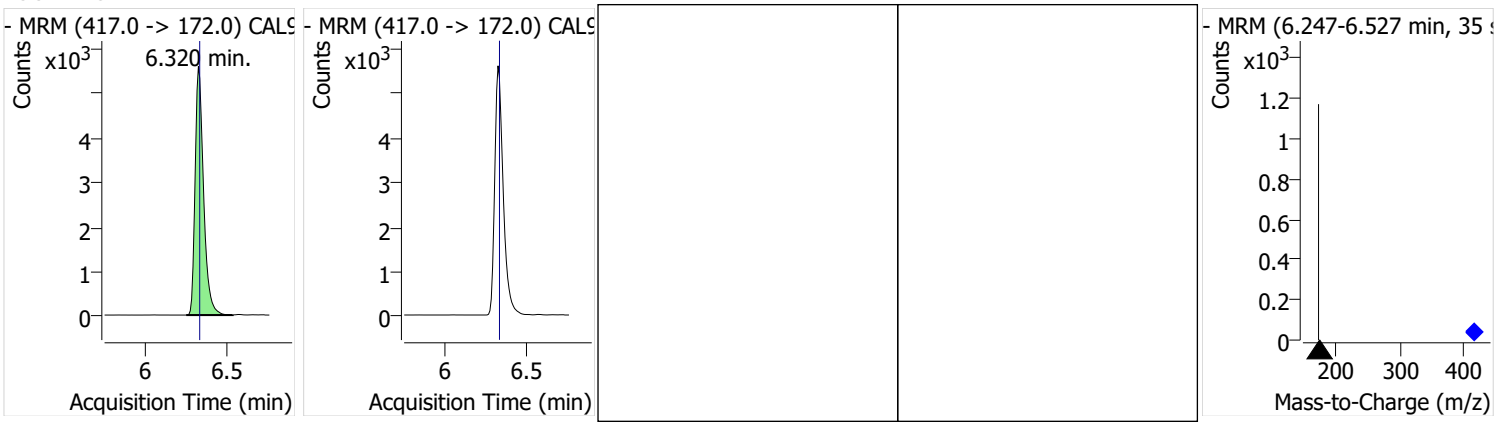
13C4-PFBA - ISTD



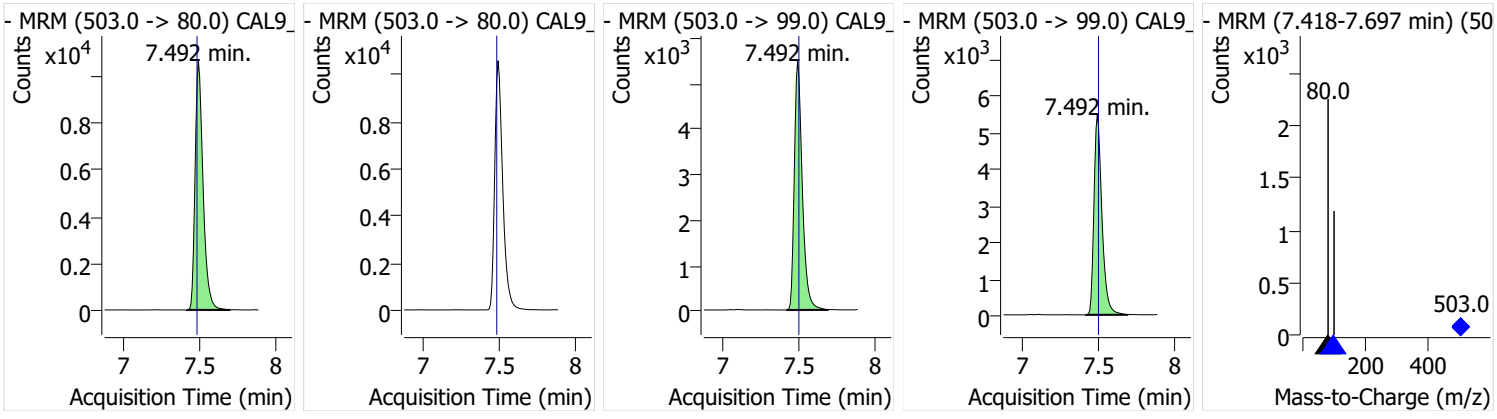
13C4-PFHpA - ISTD



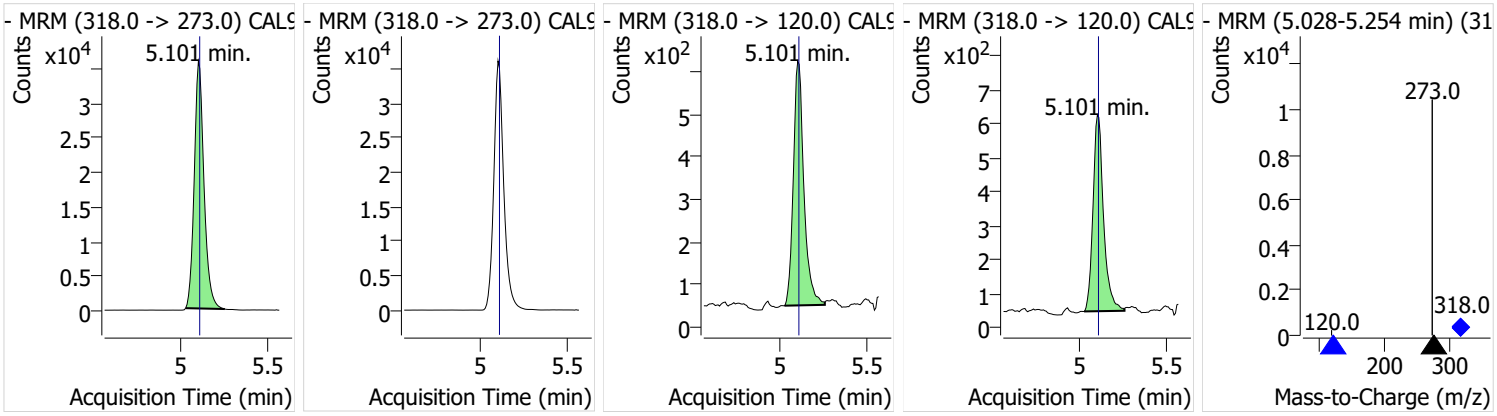
13C4-PFOA



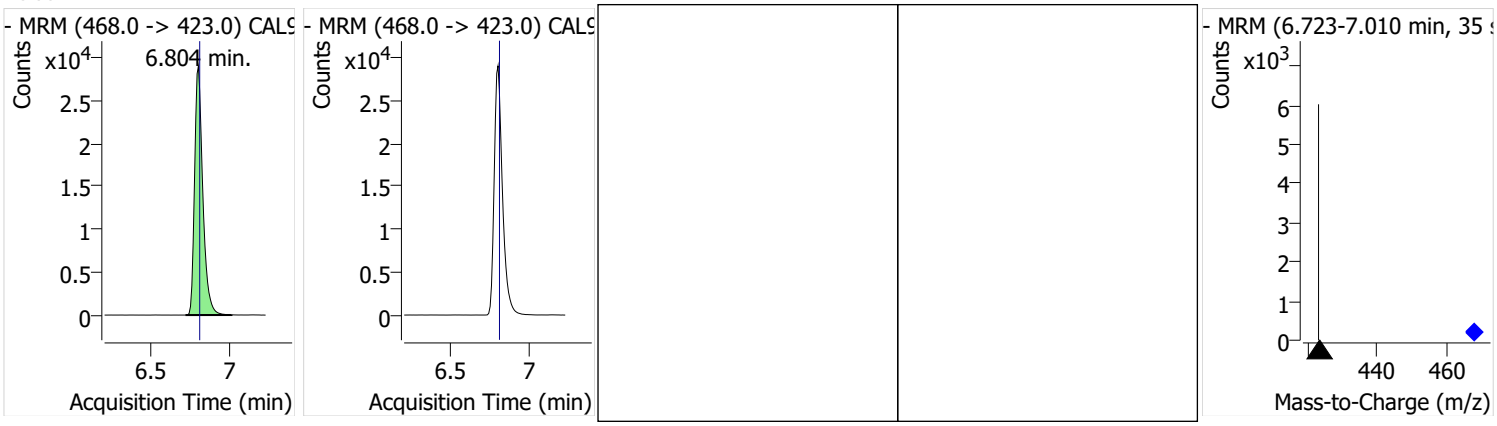
13C4-PFOS



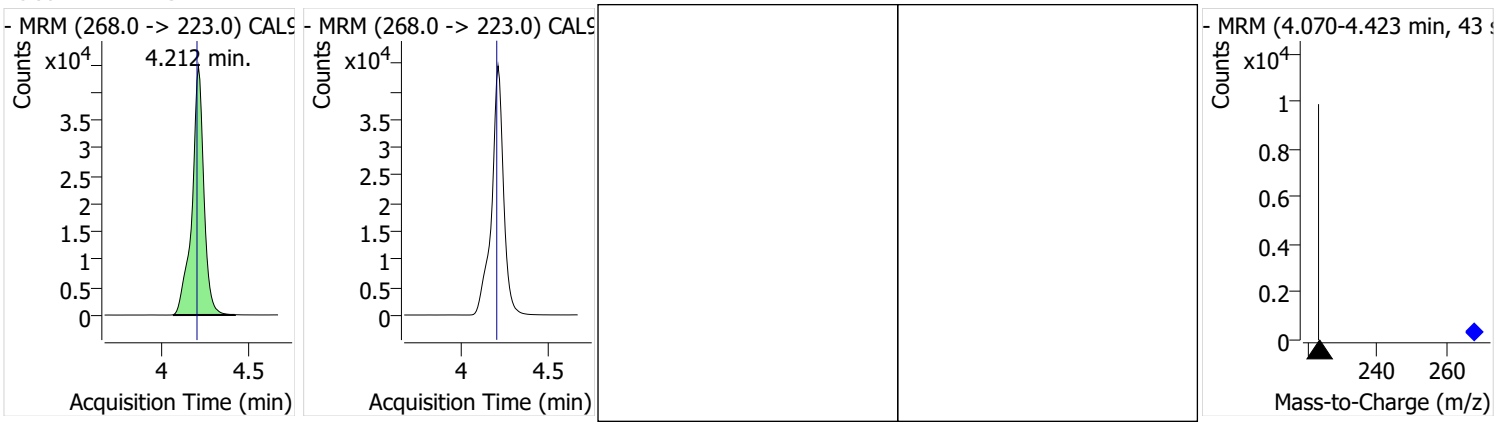
13C5-PFHxA - ISTD



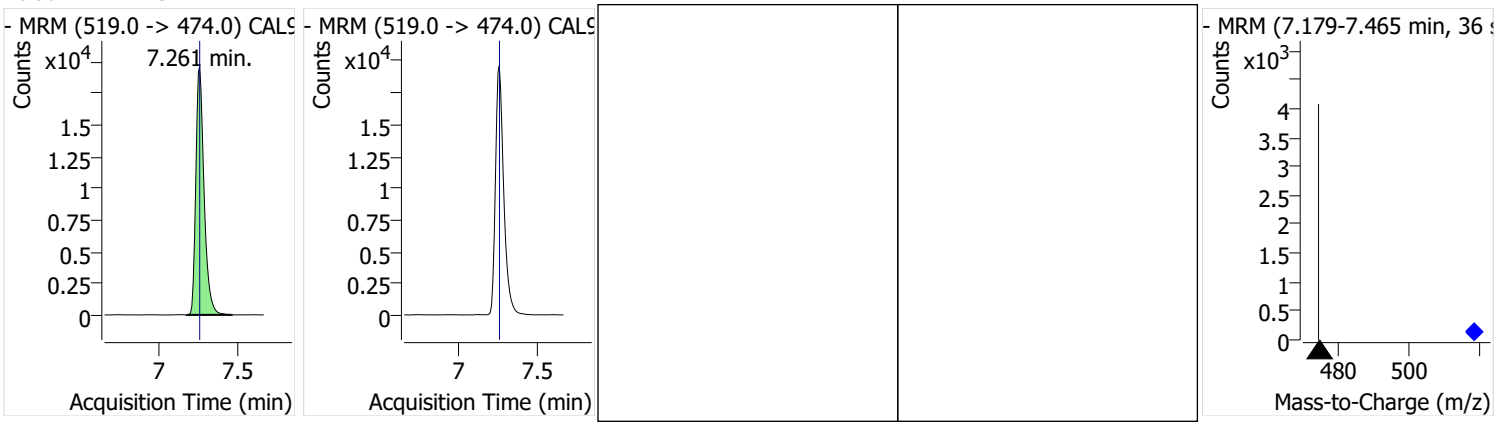
13C5-PFNA



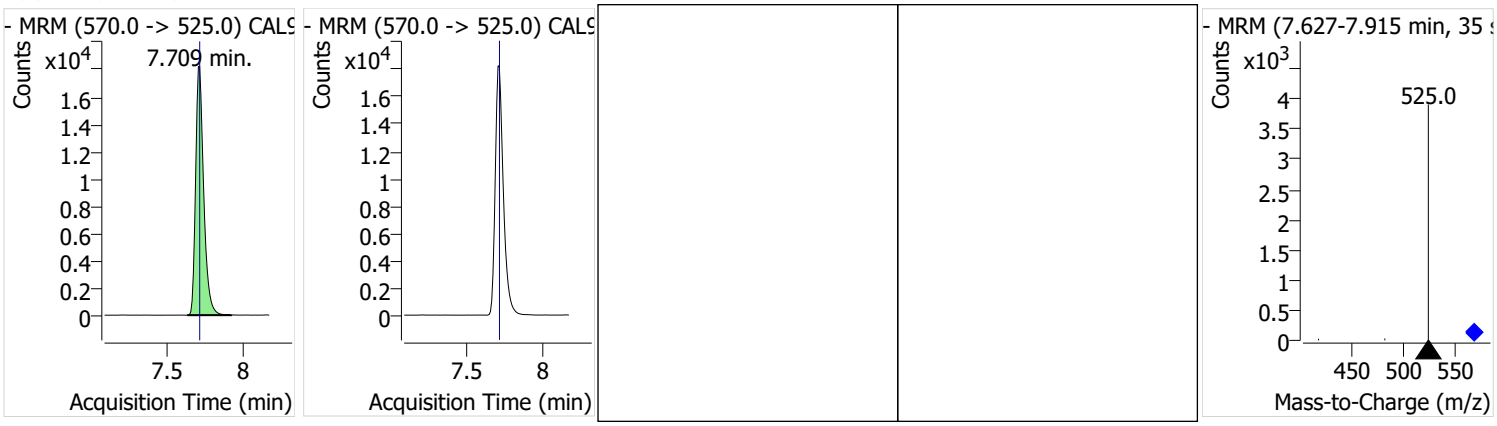
13C5-PFPeA - ISTD



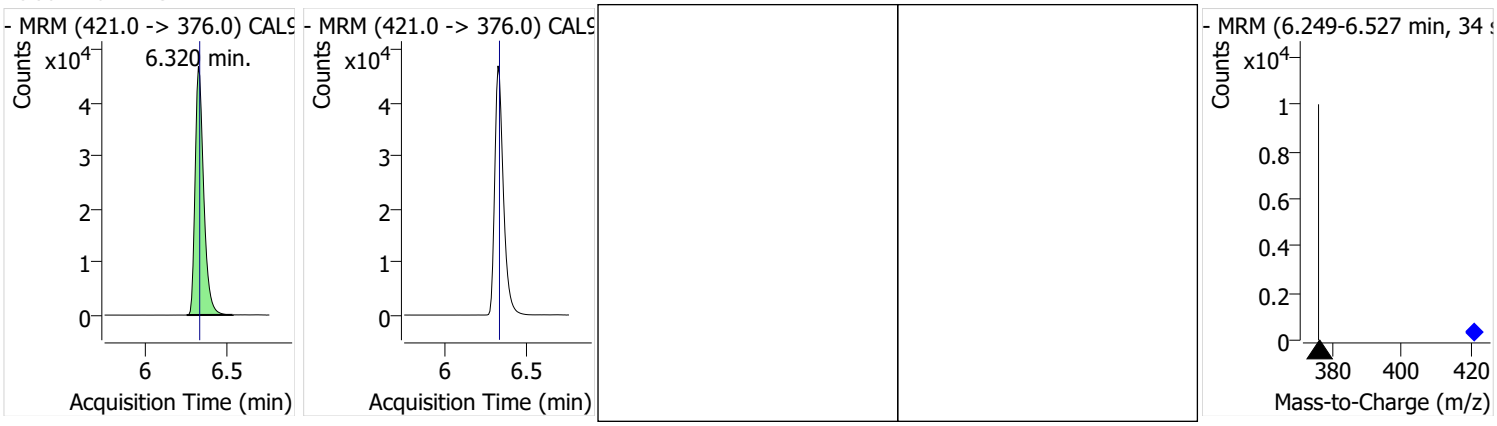
13C6-PFDA - ISTD



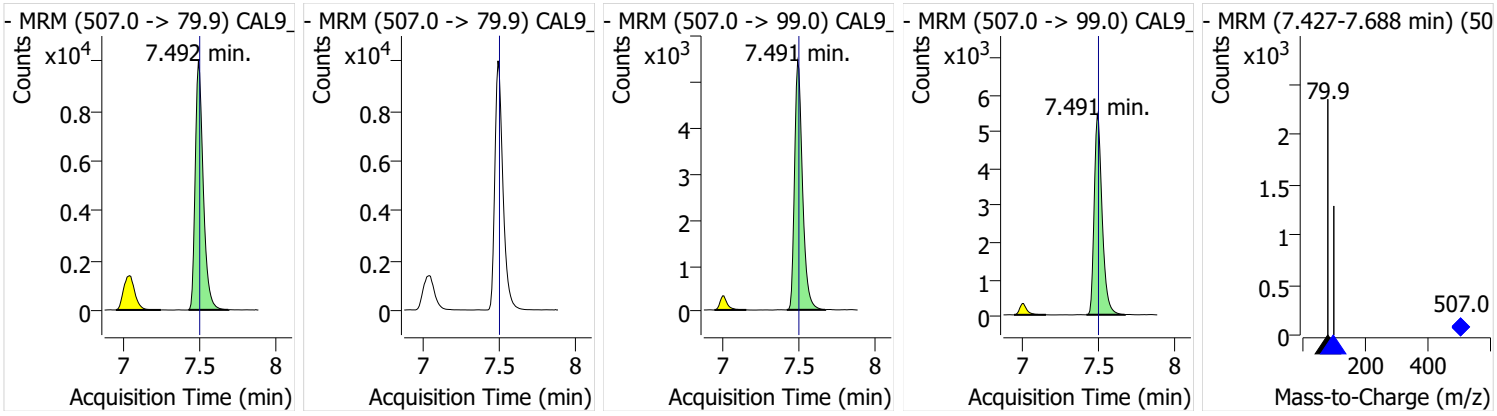
13C7-PFUnA - ISTD



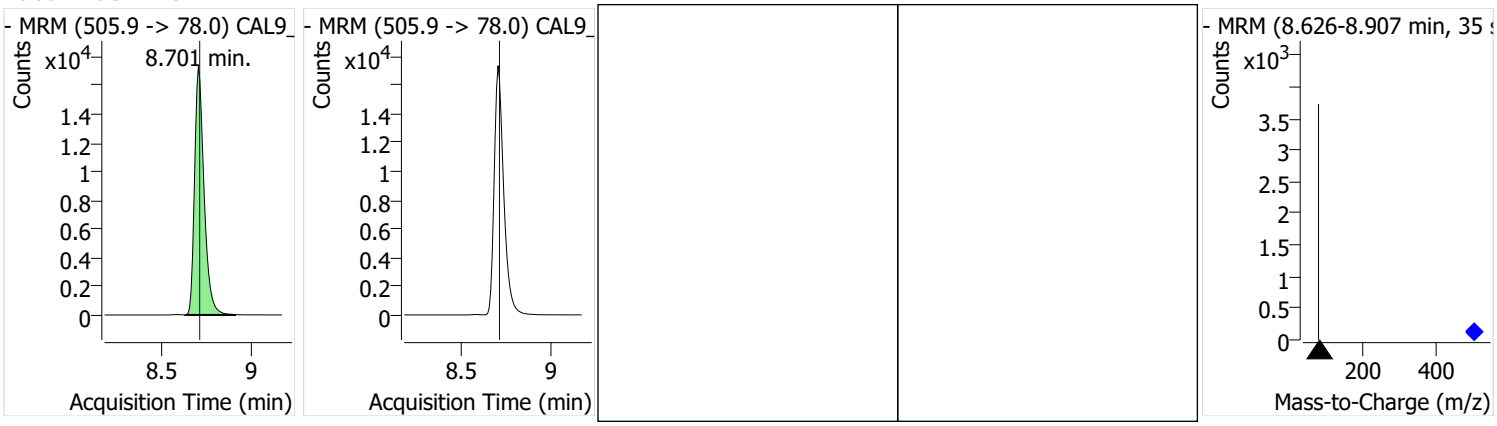
13C8-PFOA - ISTD



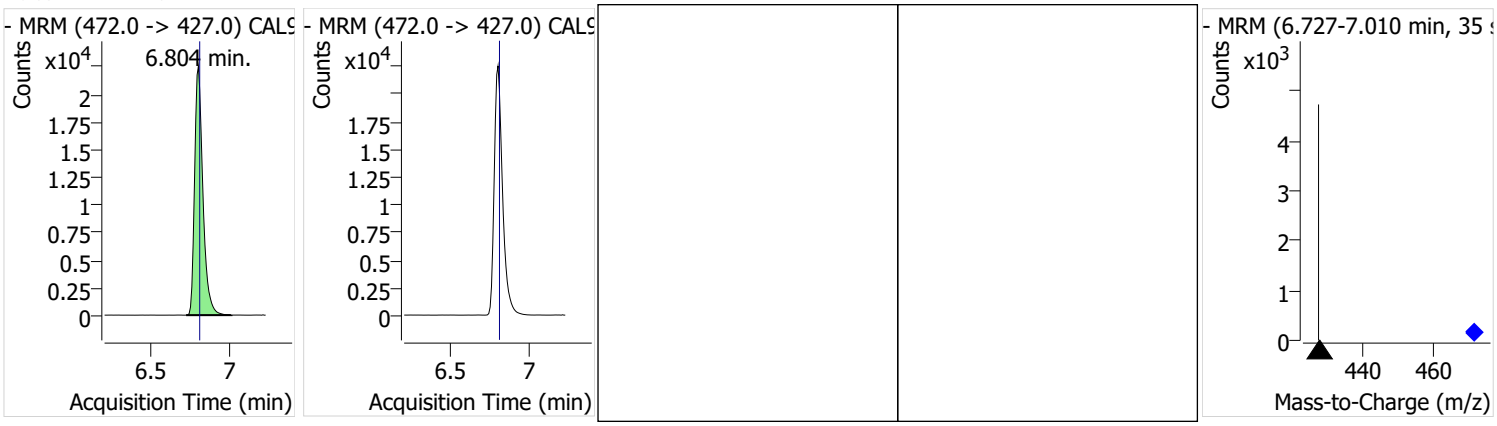
13C8-PFOS - ISTD



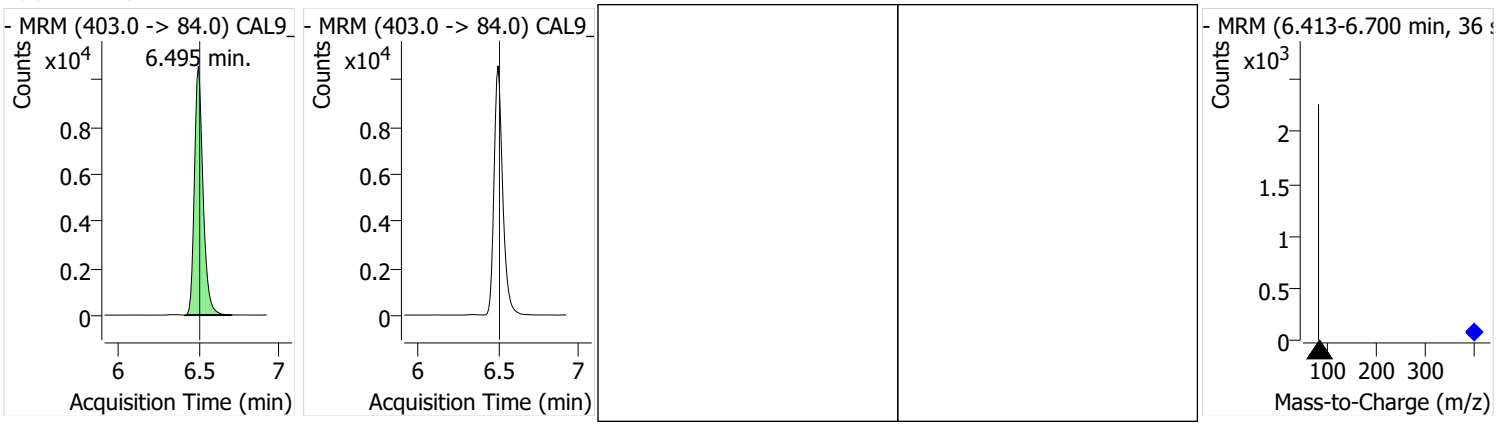
13C8-PFOSA - ISTD



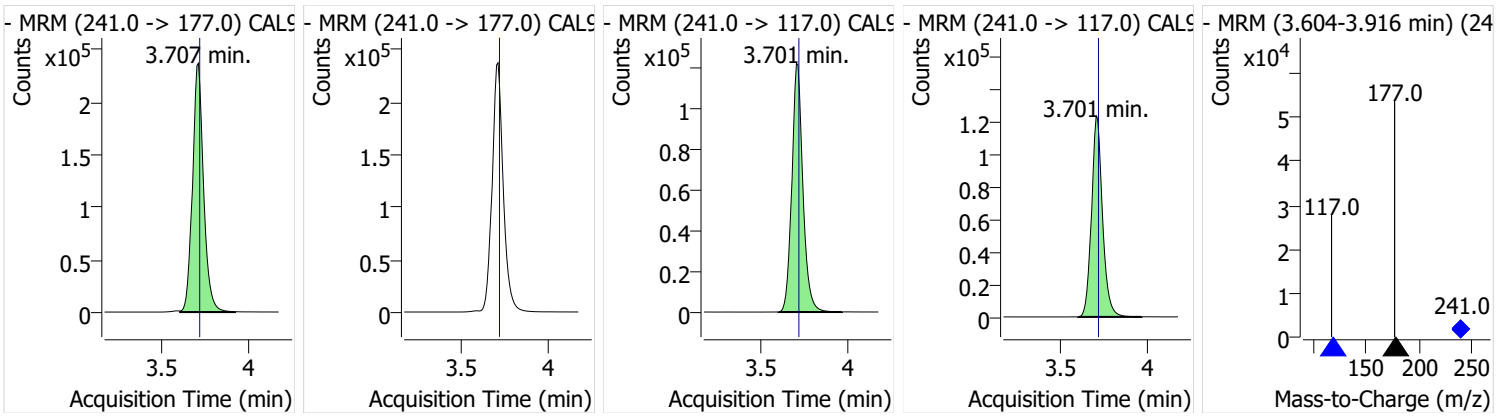
13C9-PFNA - ISTD



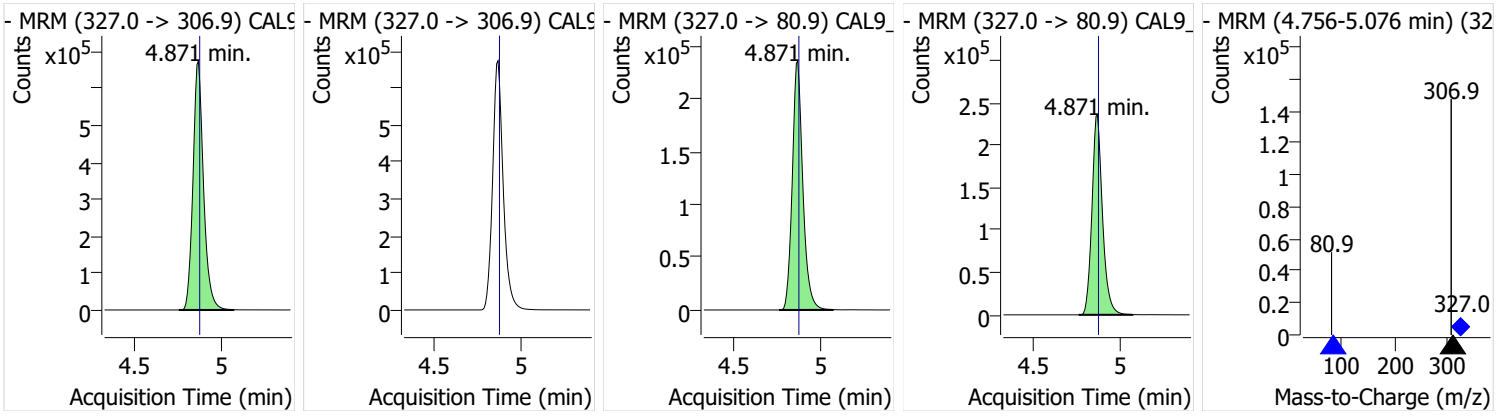
18O2-PFHxS



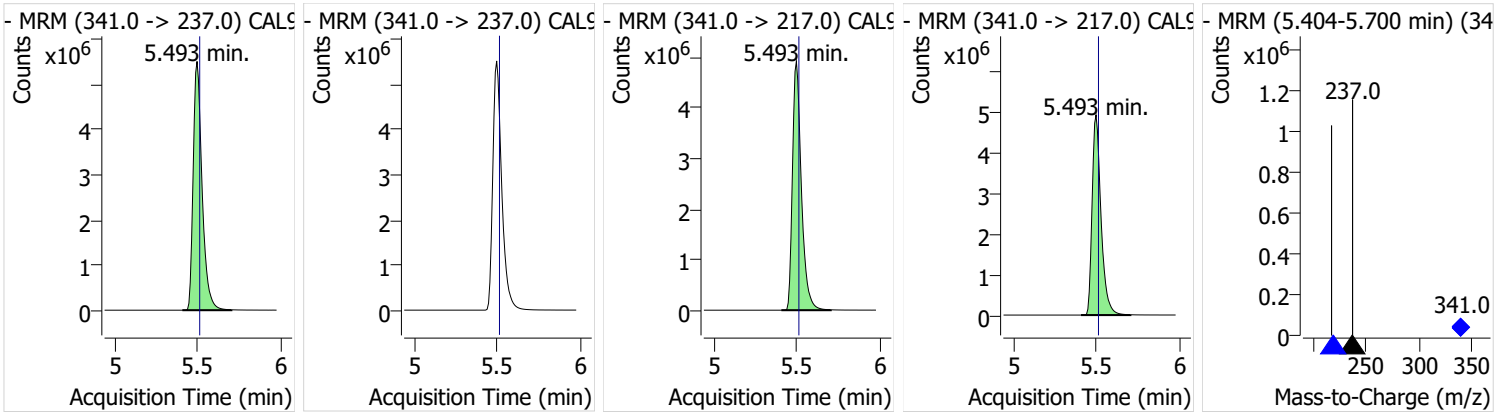
3:3FTCA



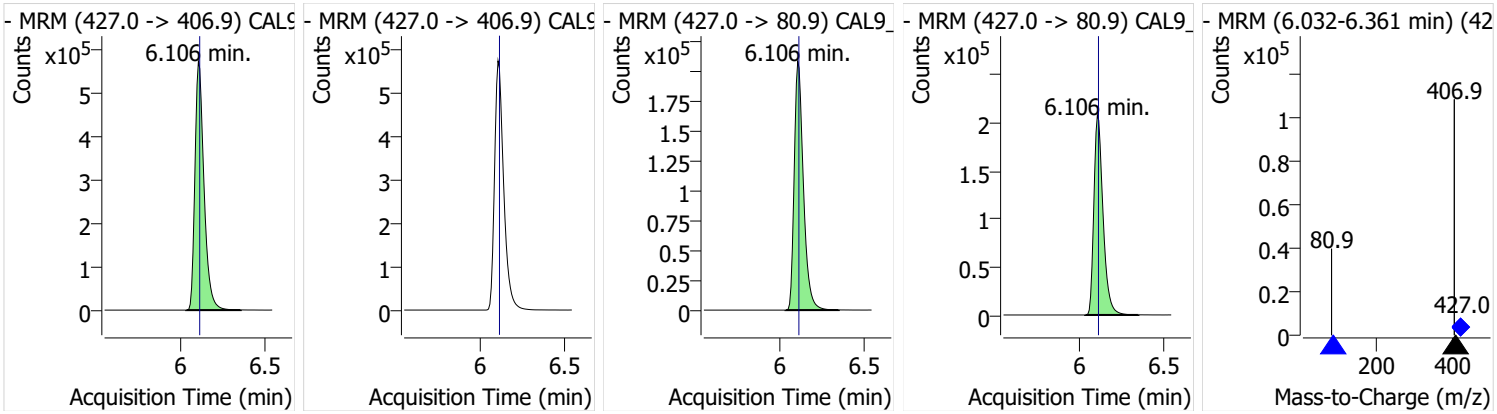
4:2FTS



5:3FTCA



6:2FTS



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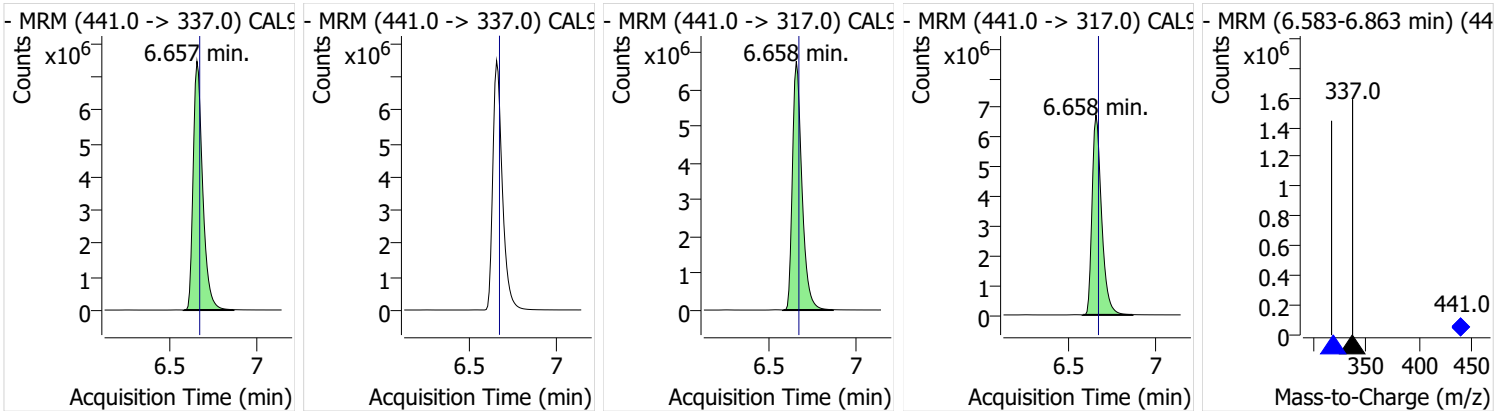

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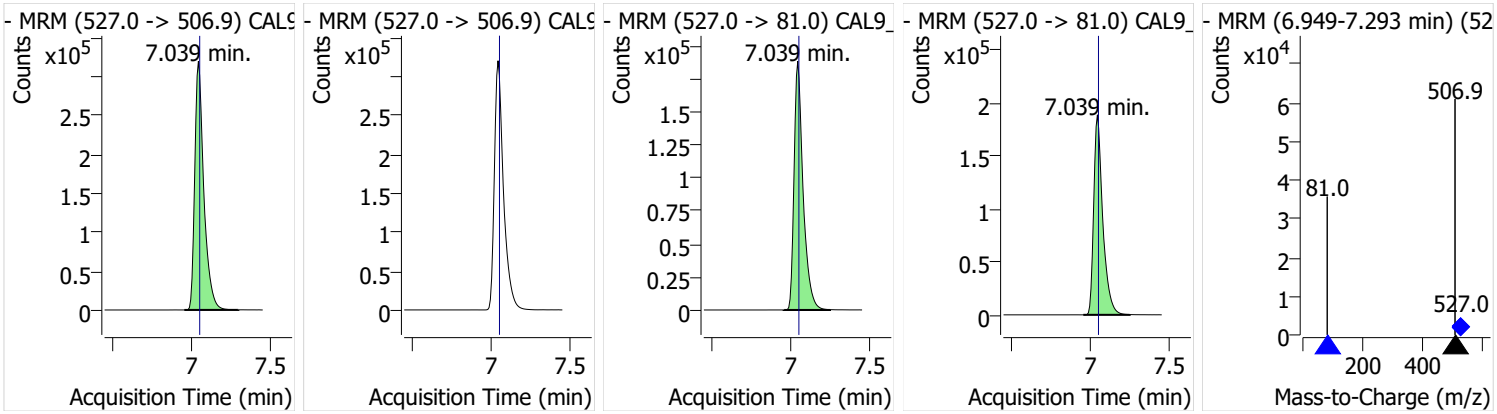
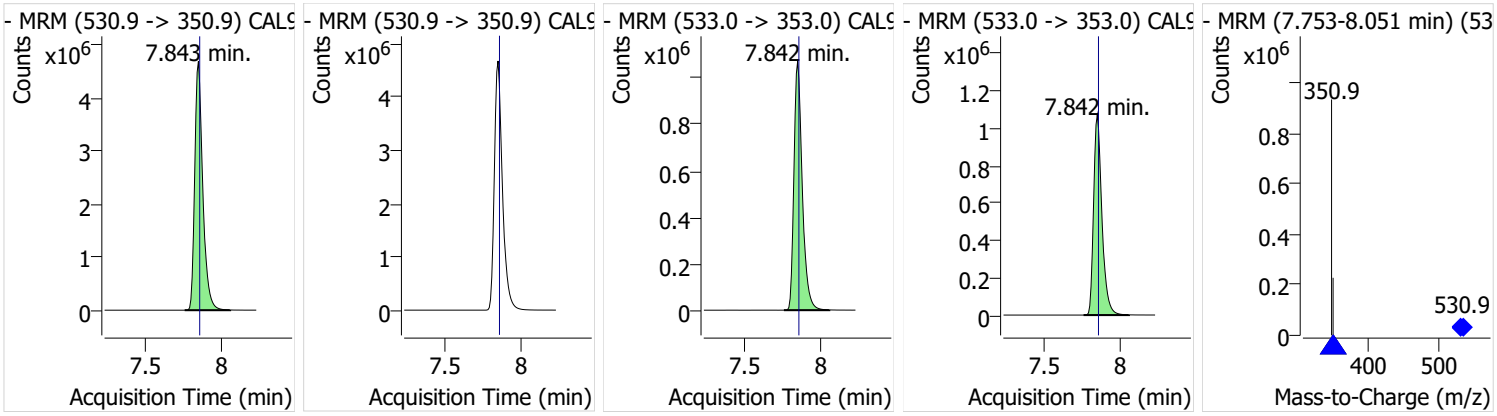


9Cl-PF3ONS



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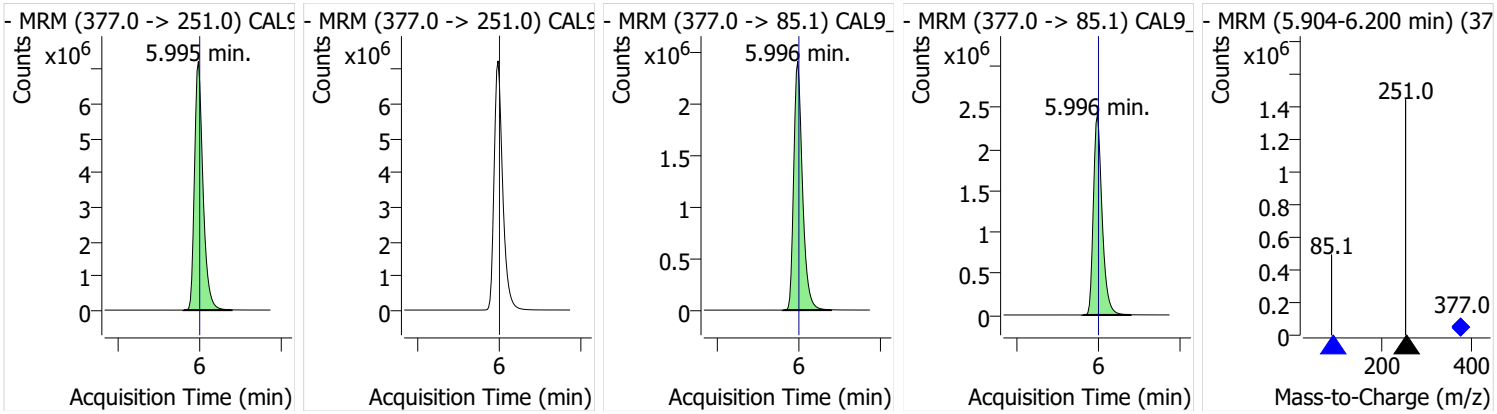

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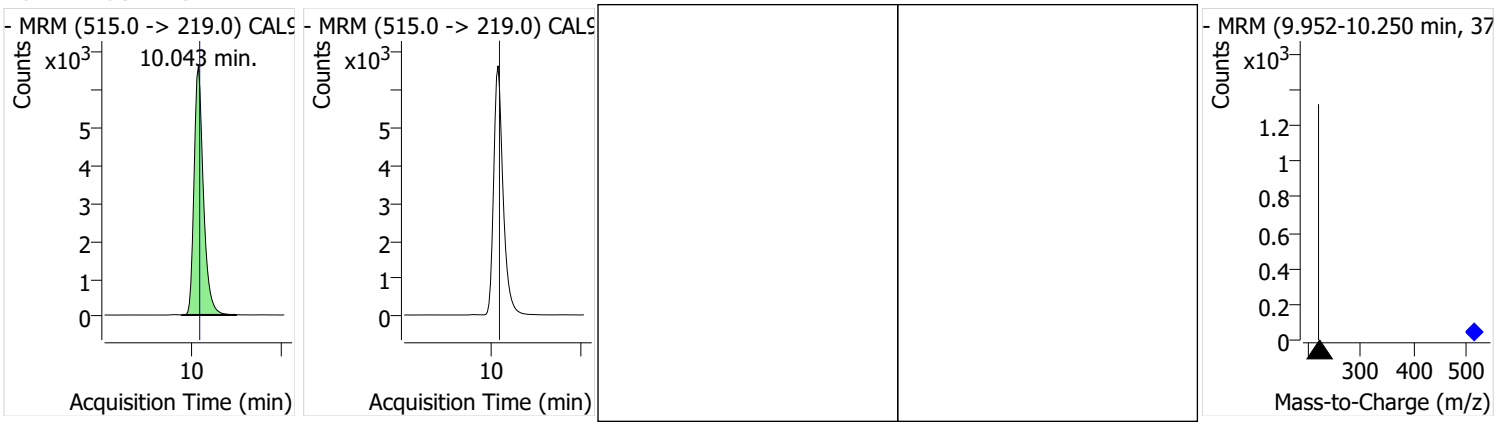

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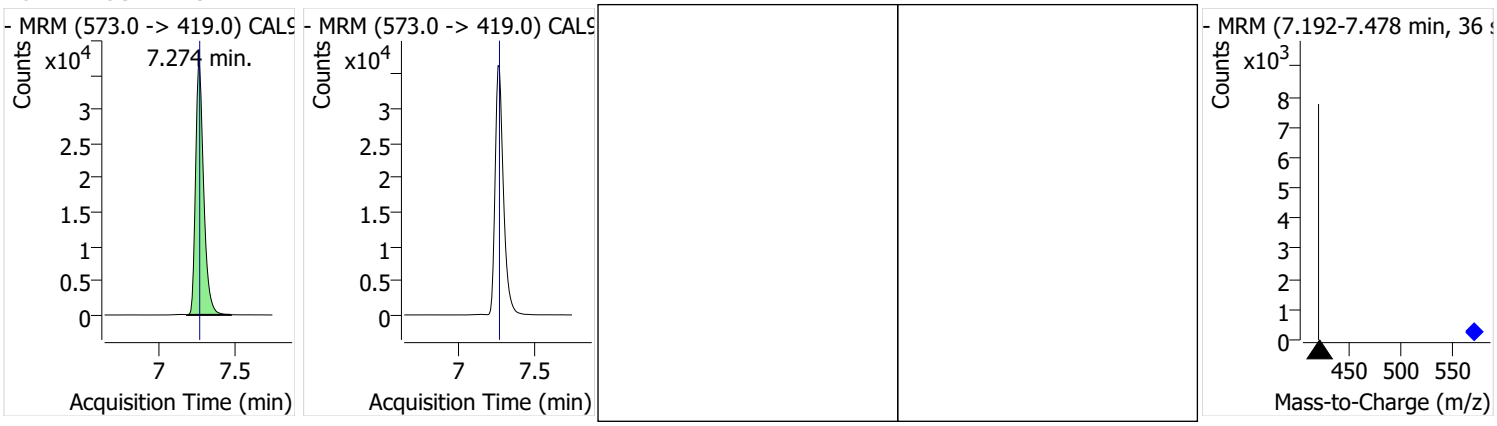

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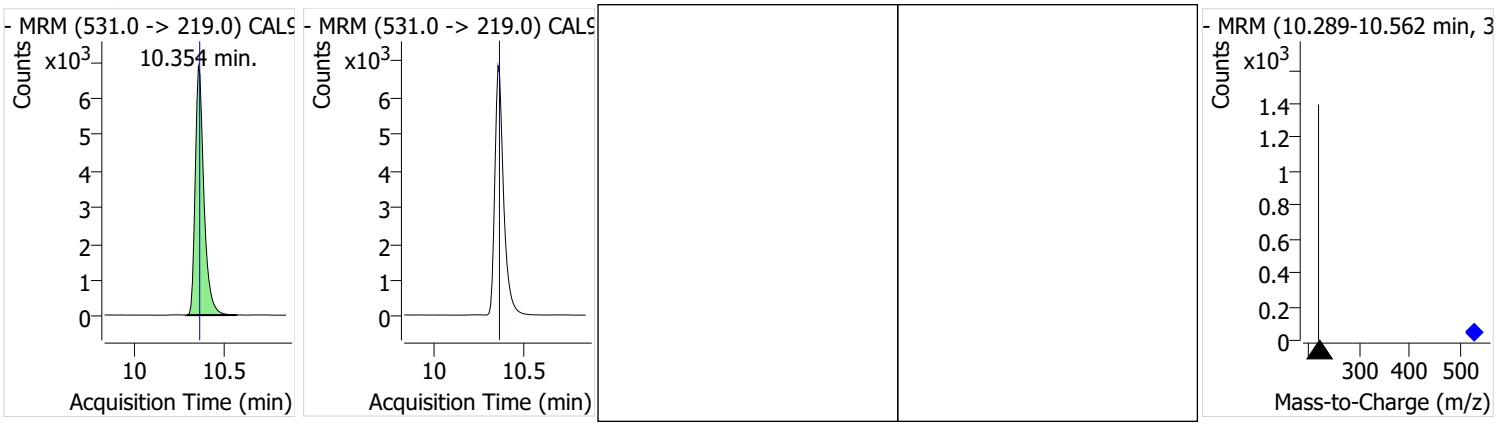

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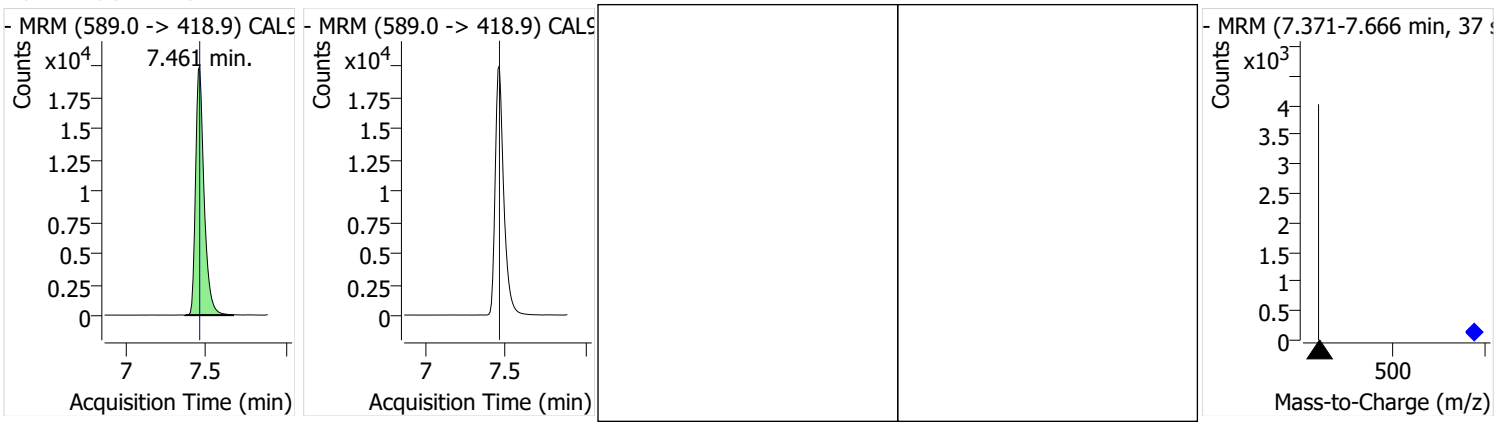

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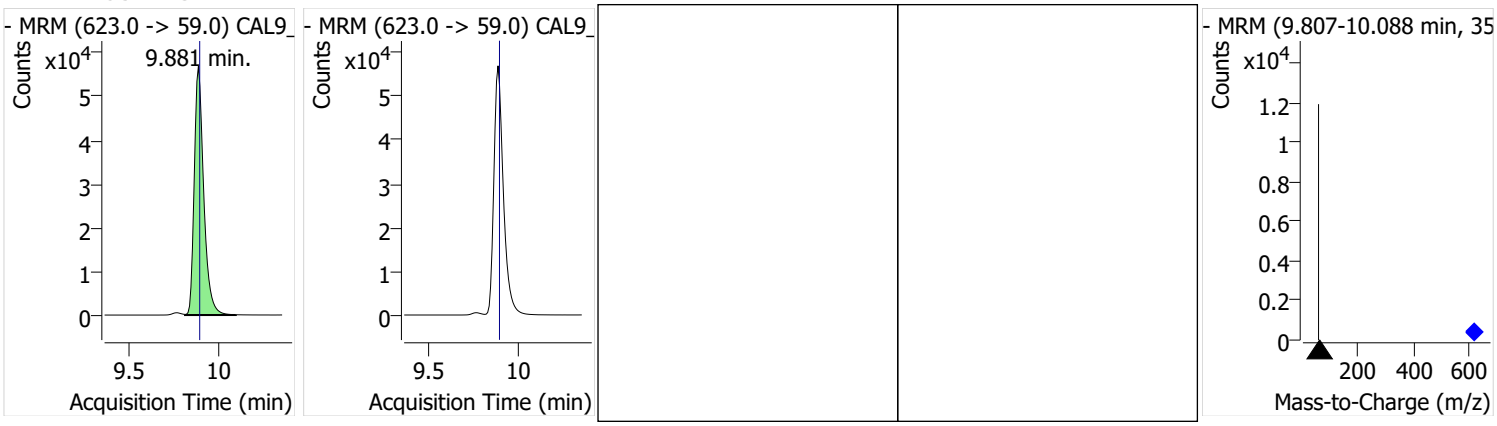
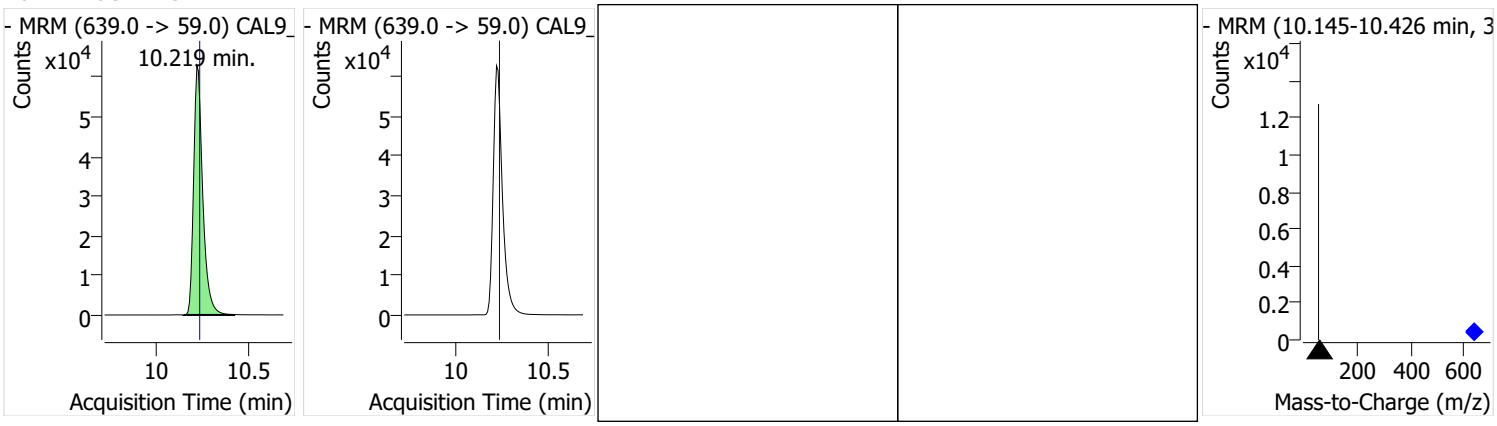
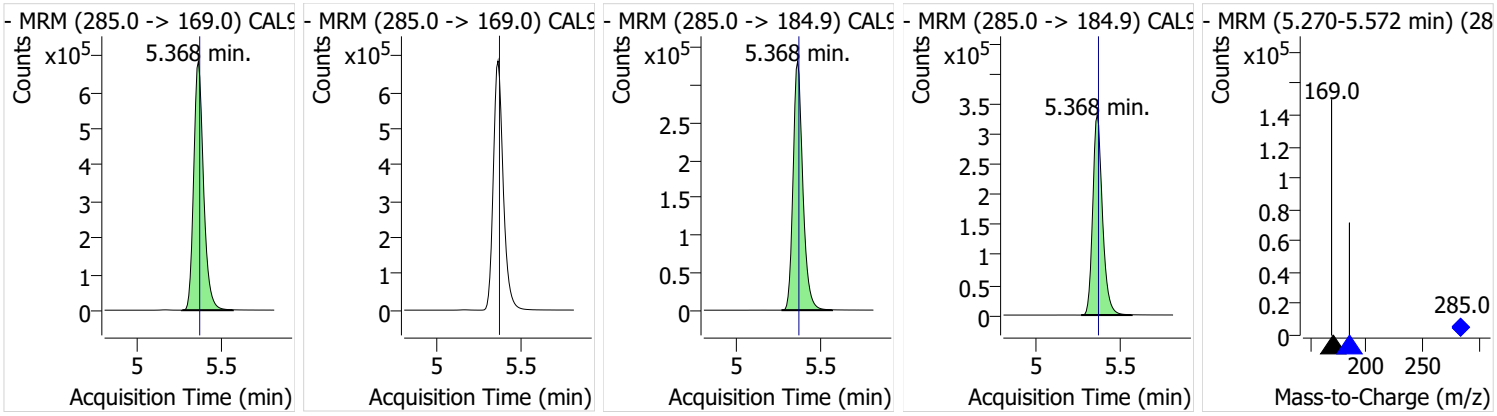


D9-NEtFOSE - ISTD



HFPO-DA



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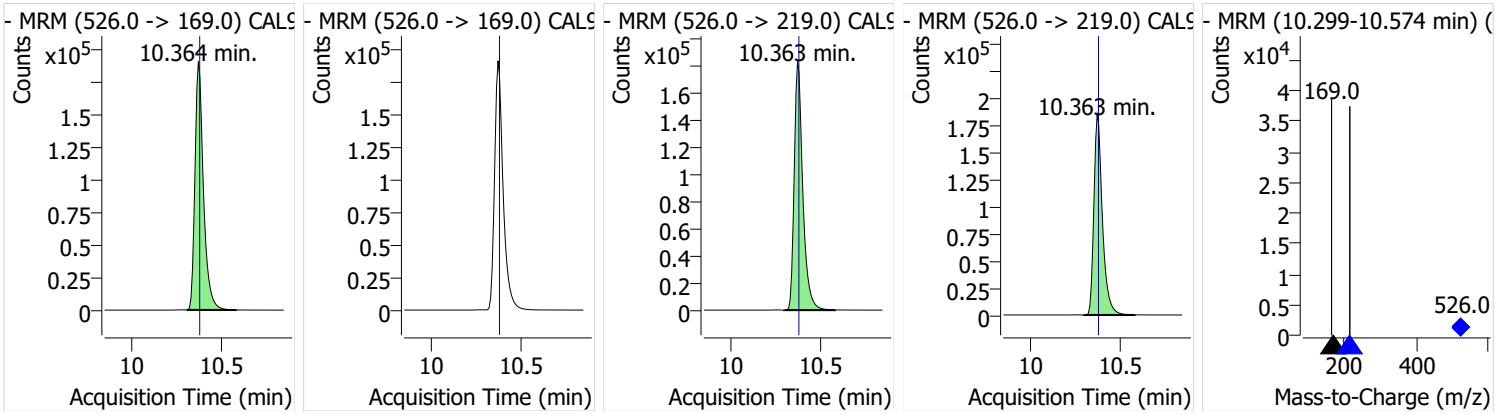

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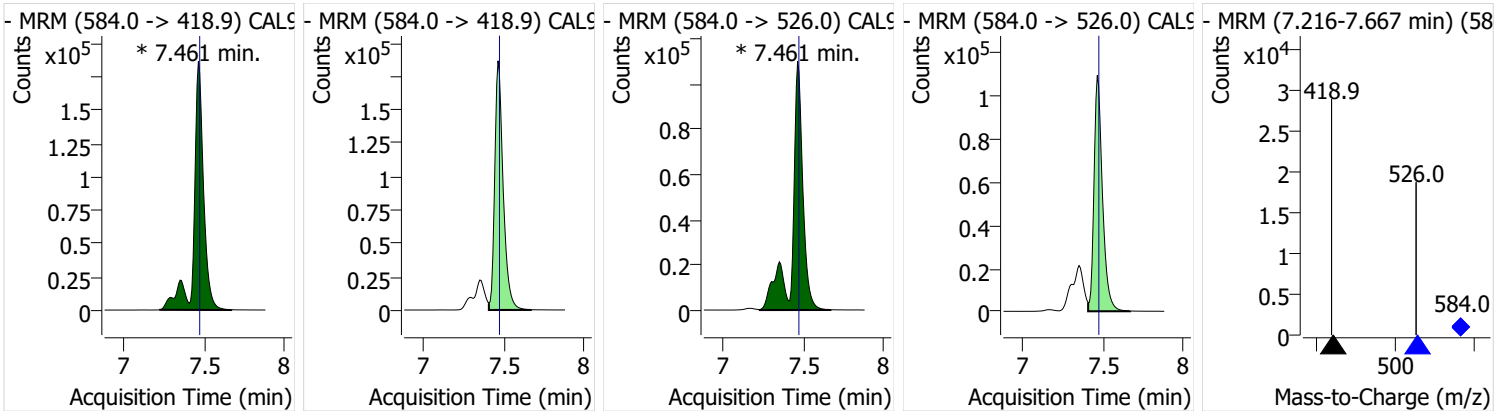

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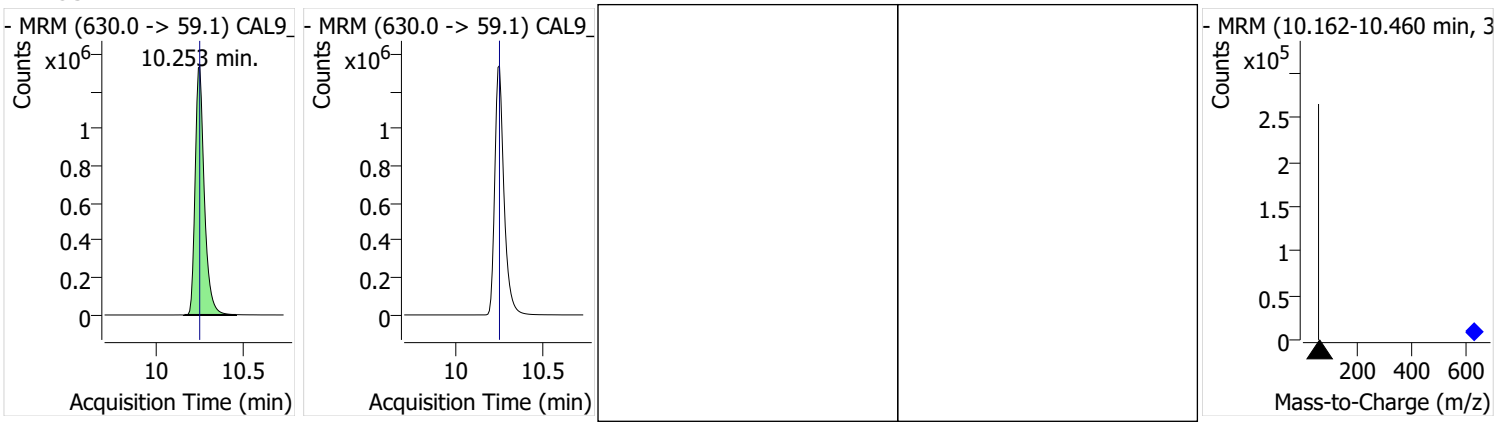

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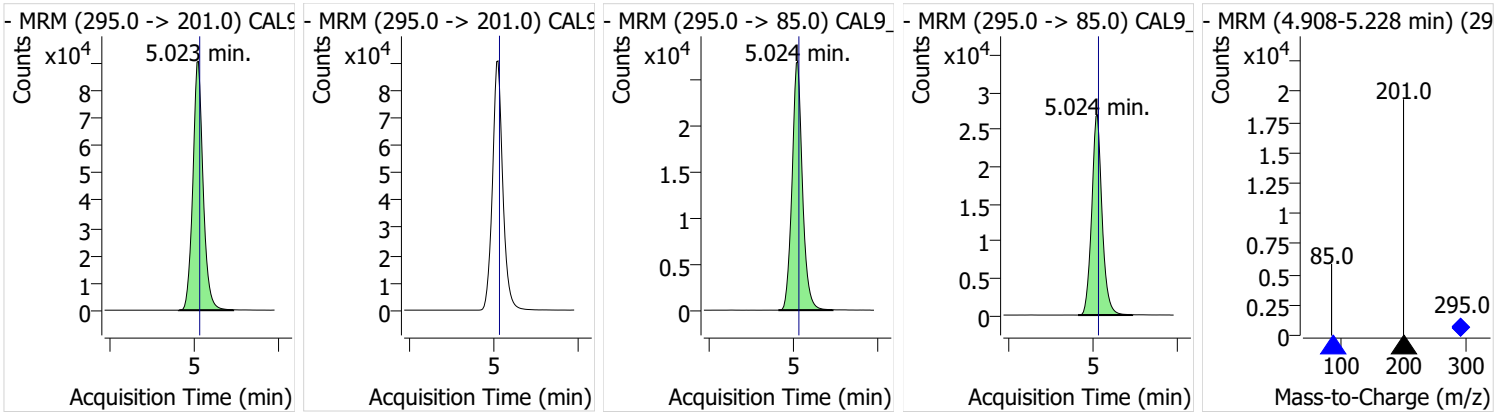

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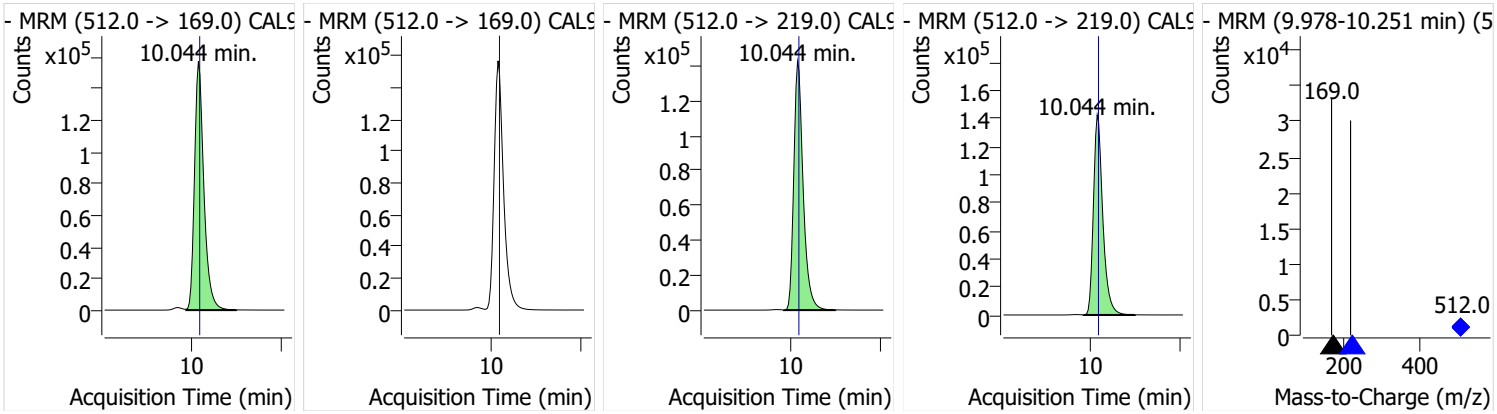

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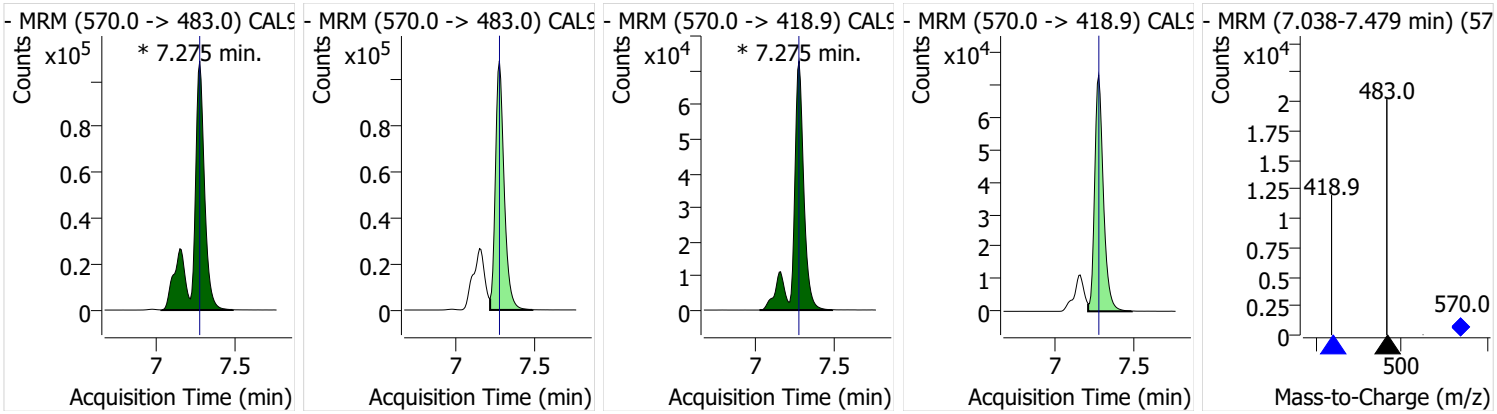

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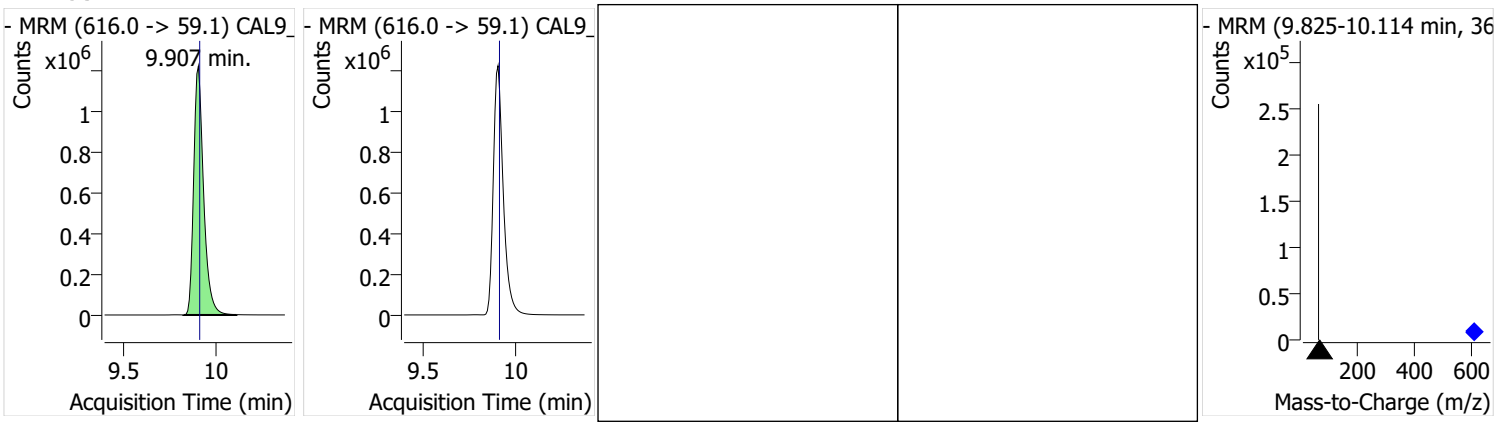

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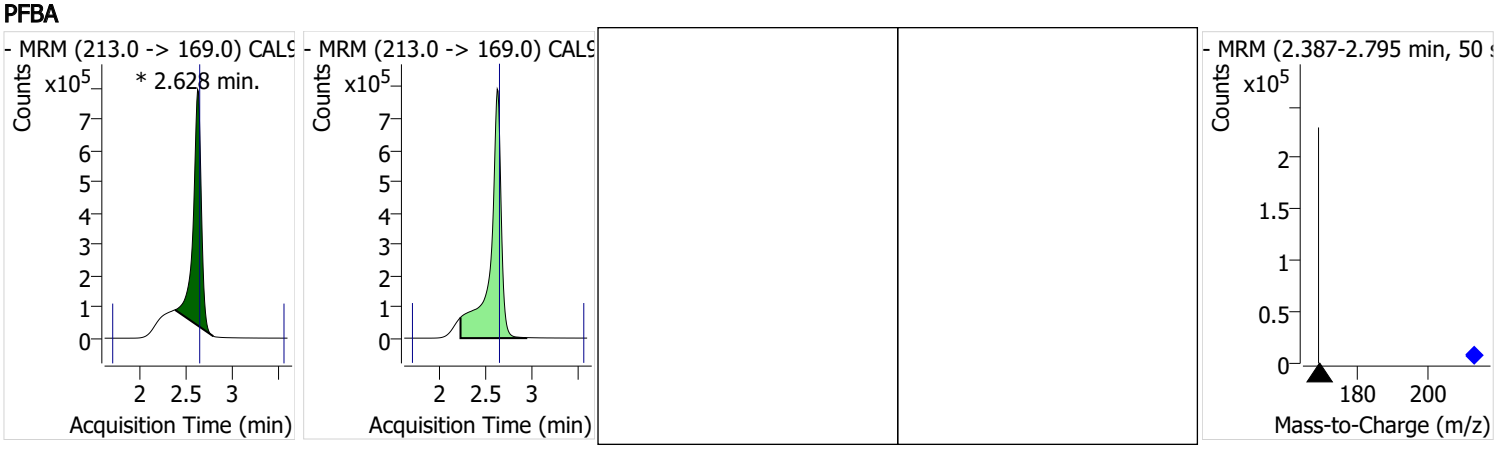

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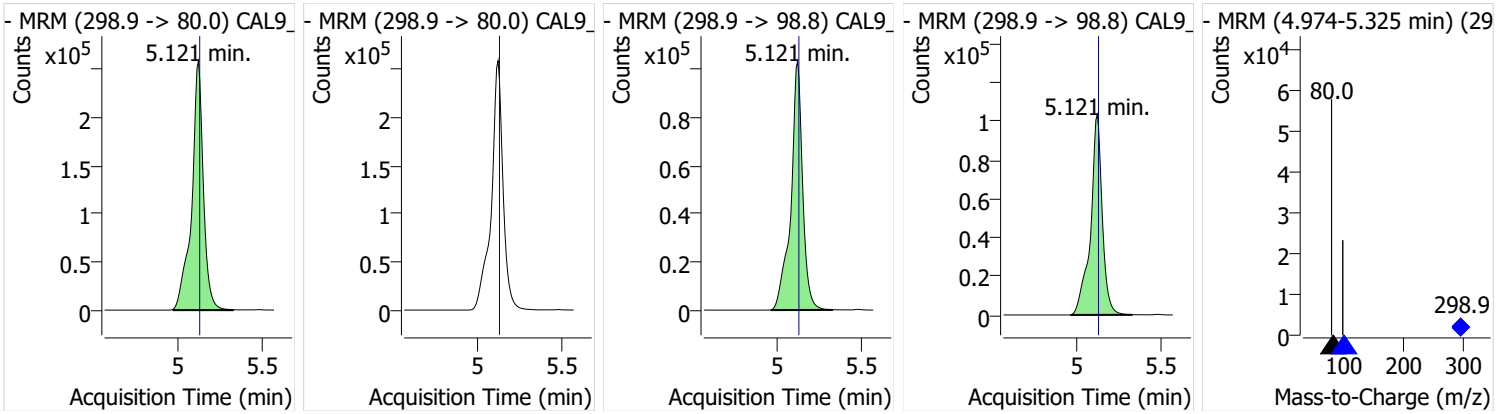

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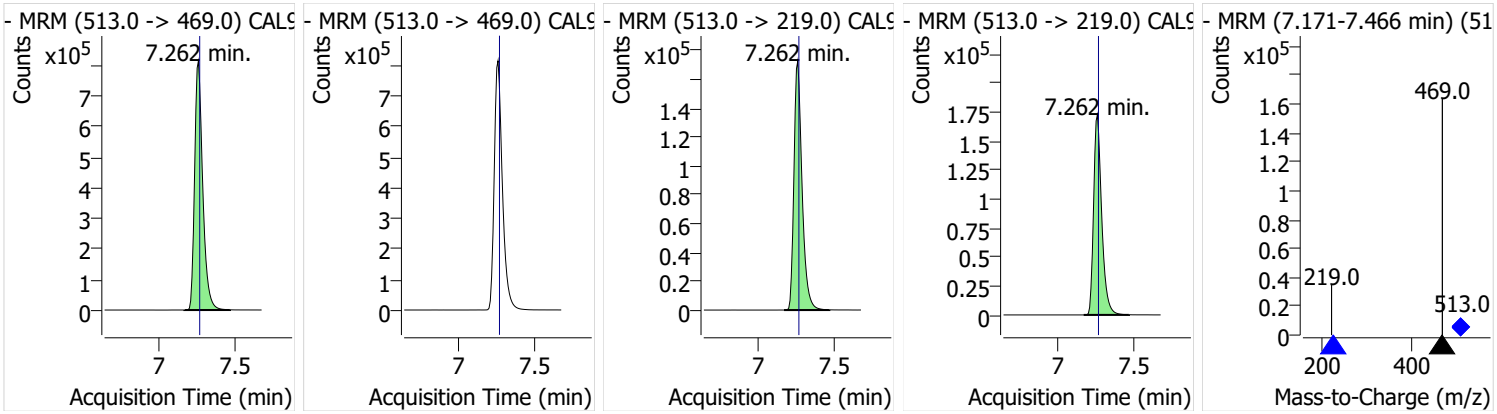

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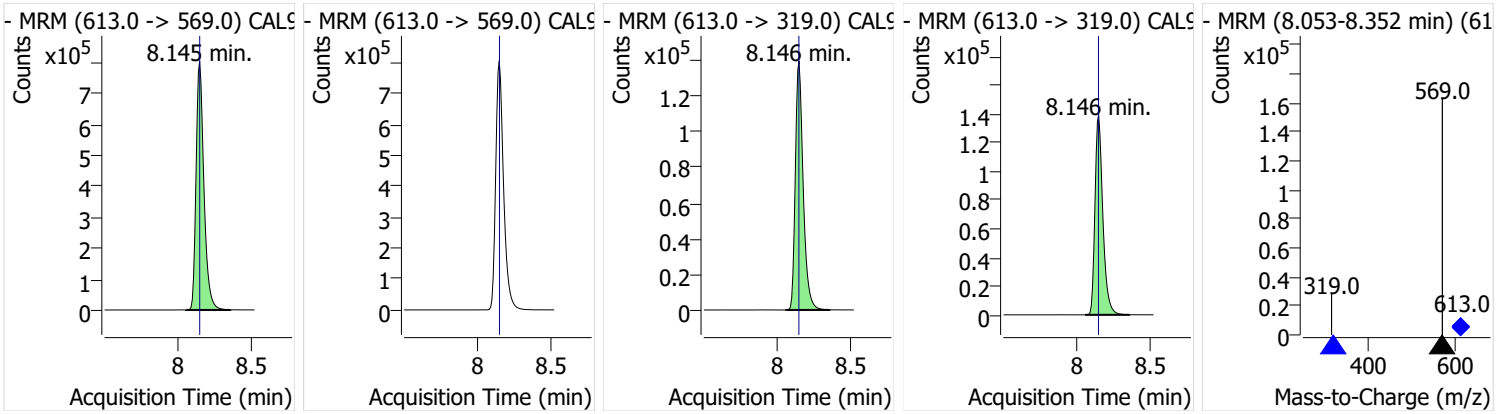

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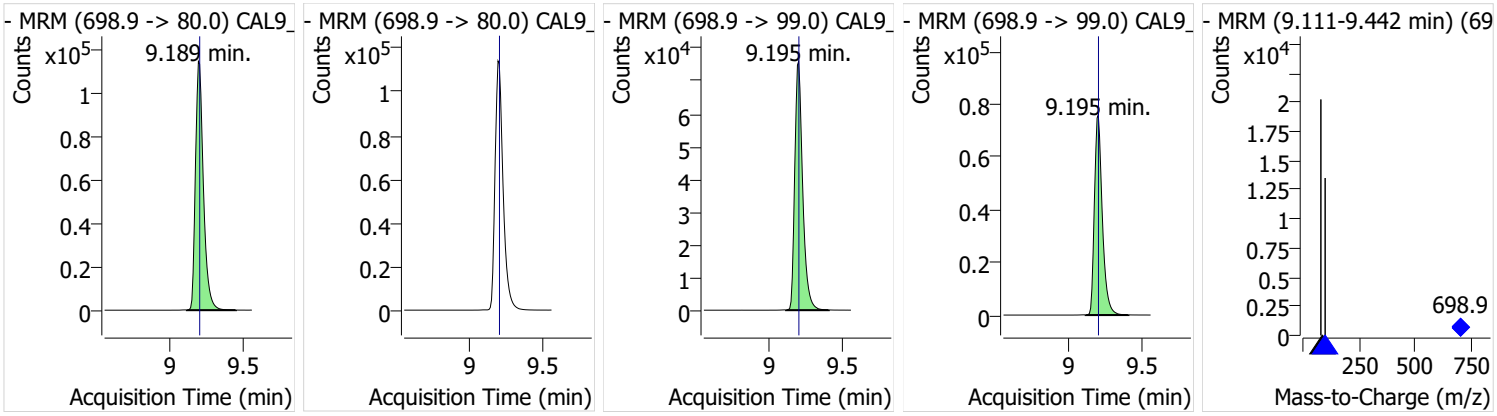

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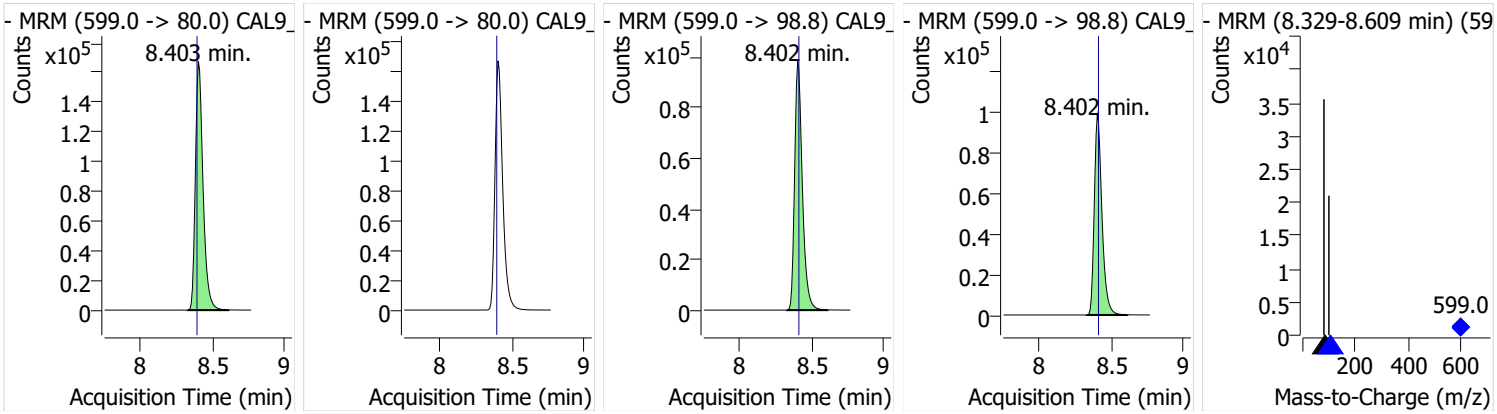

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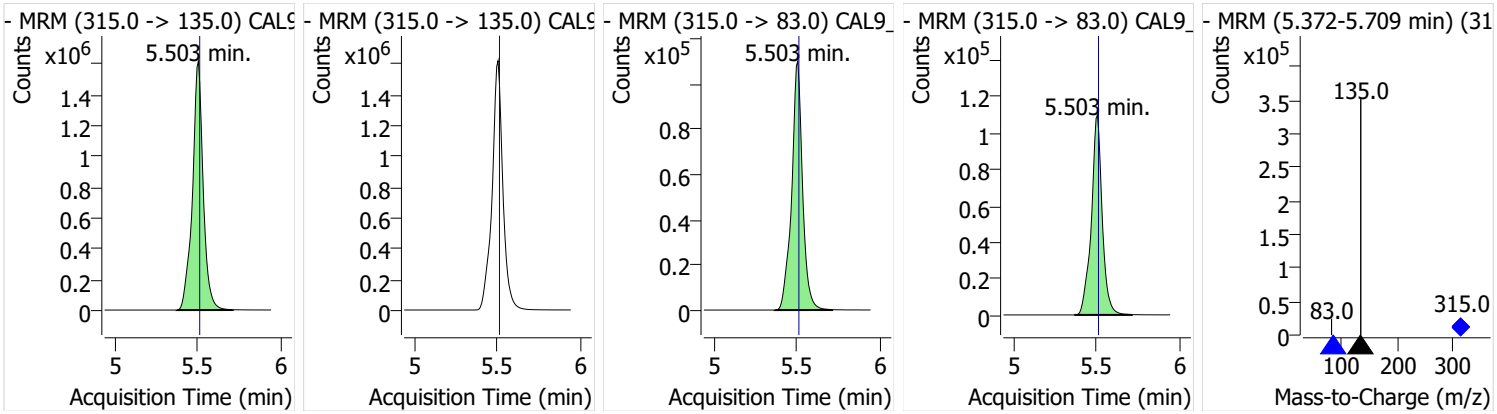

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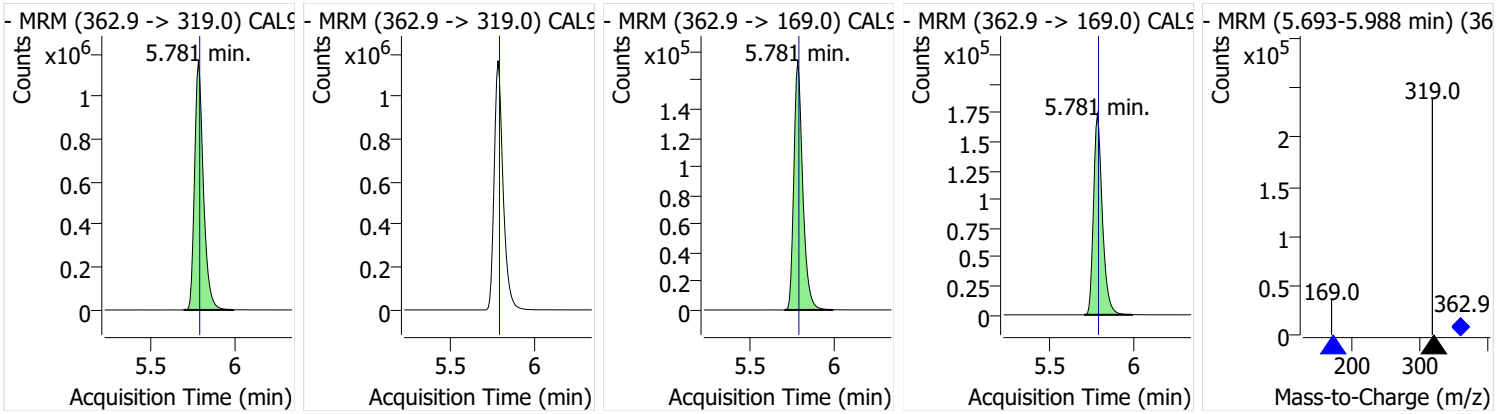

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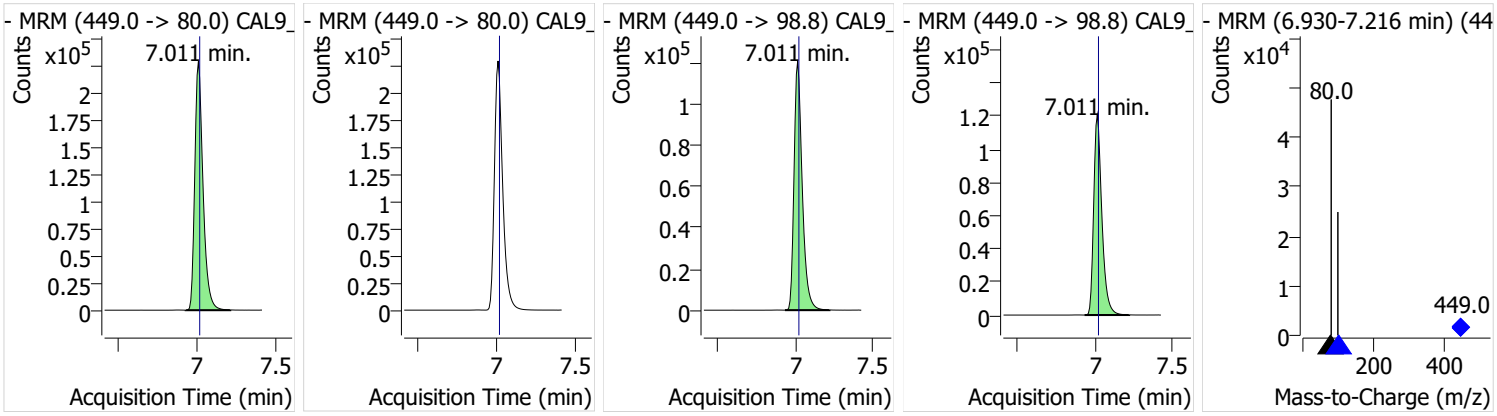

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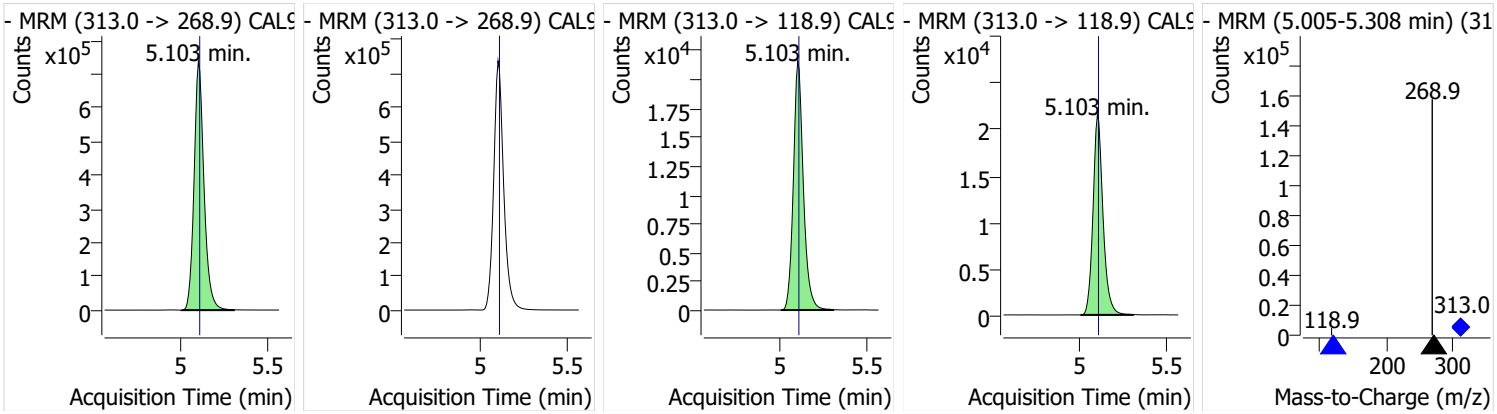

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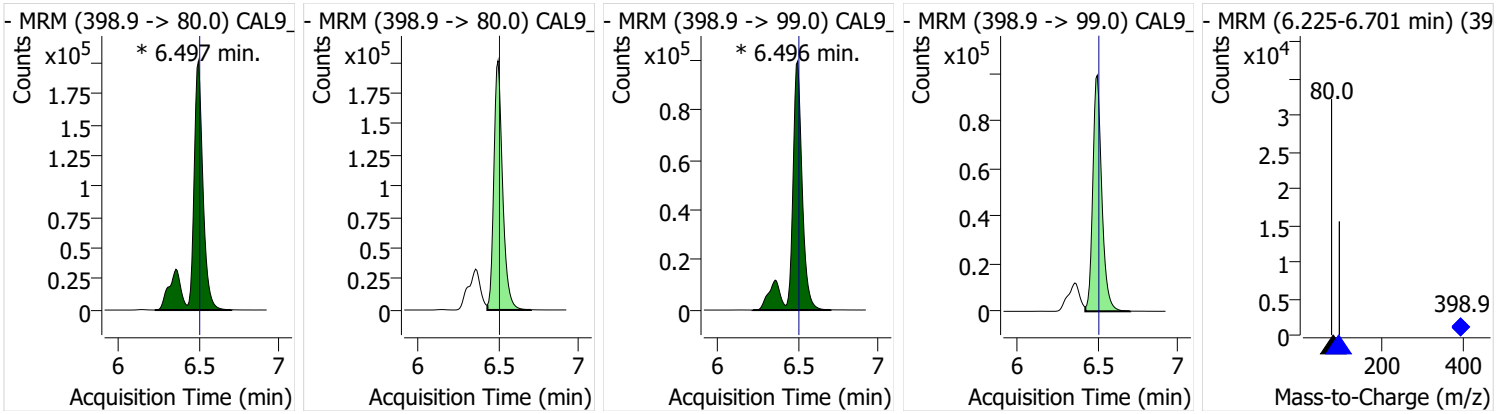

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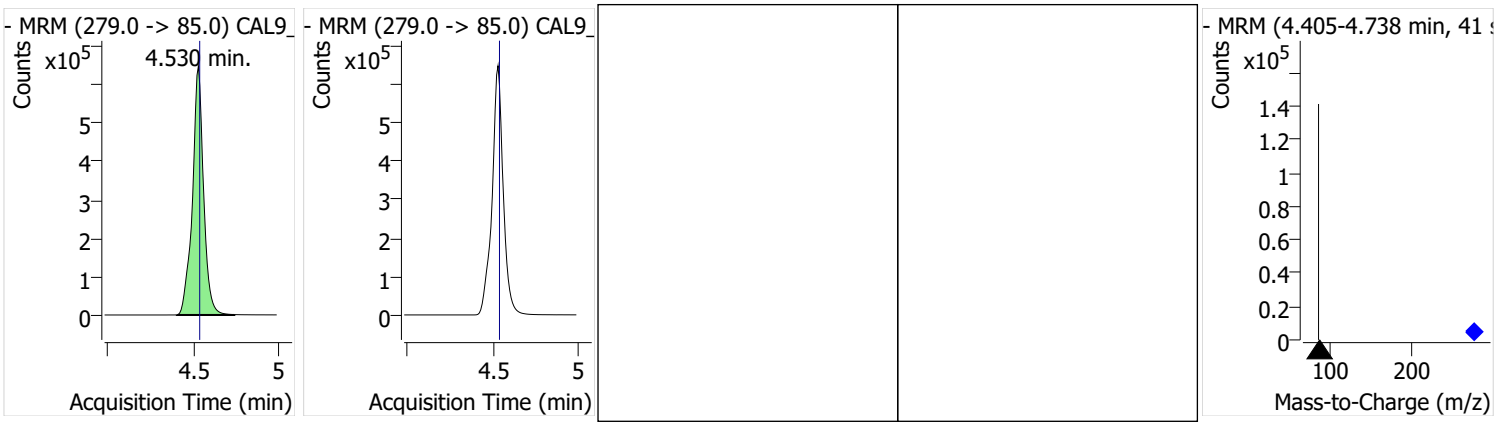

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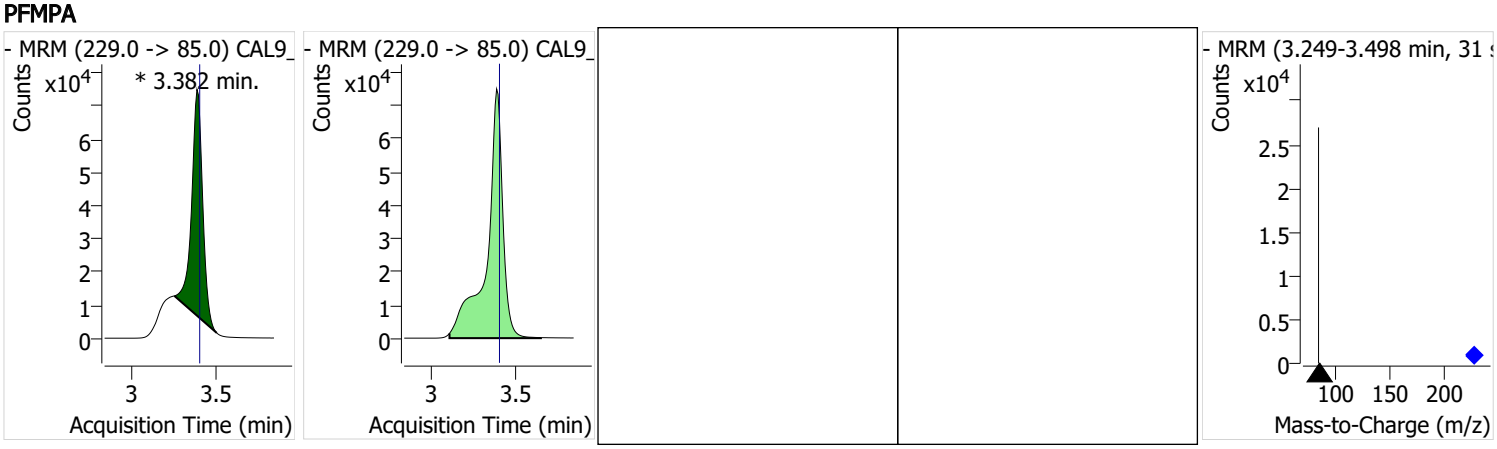

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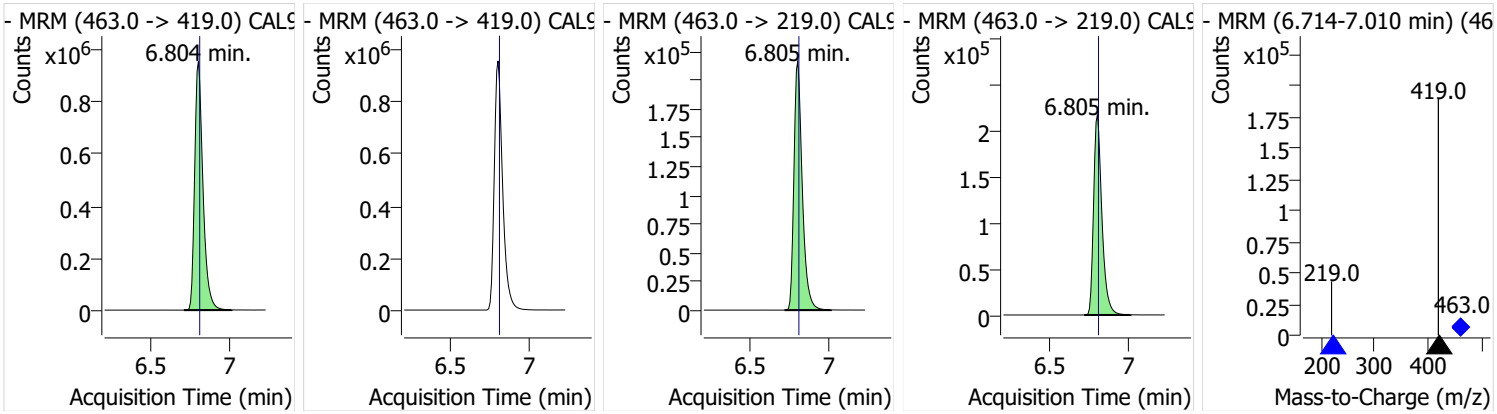

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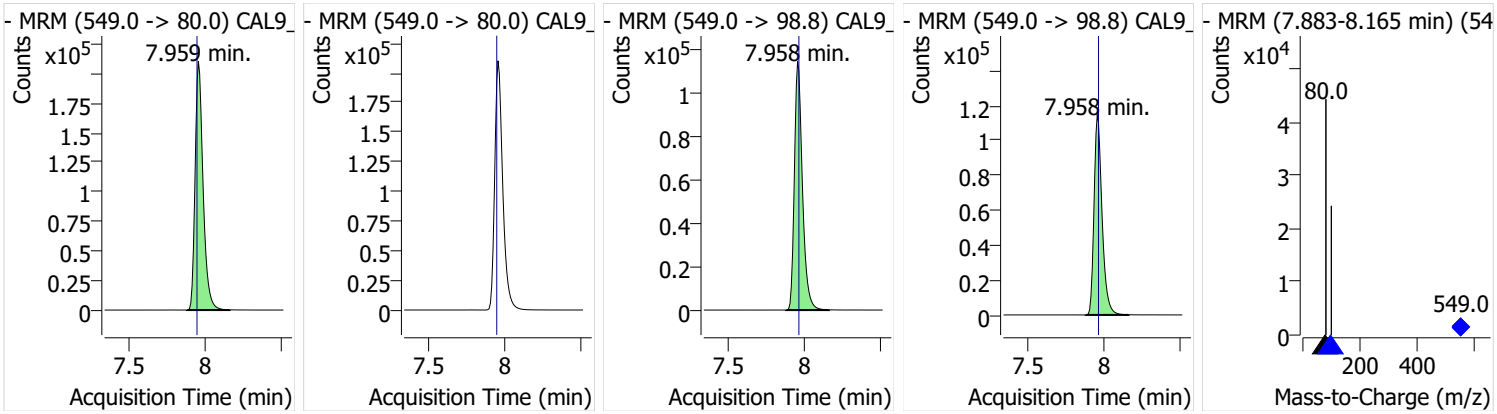

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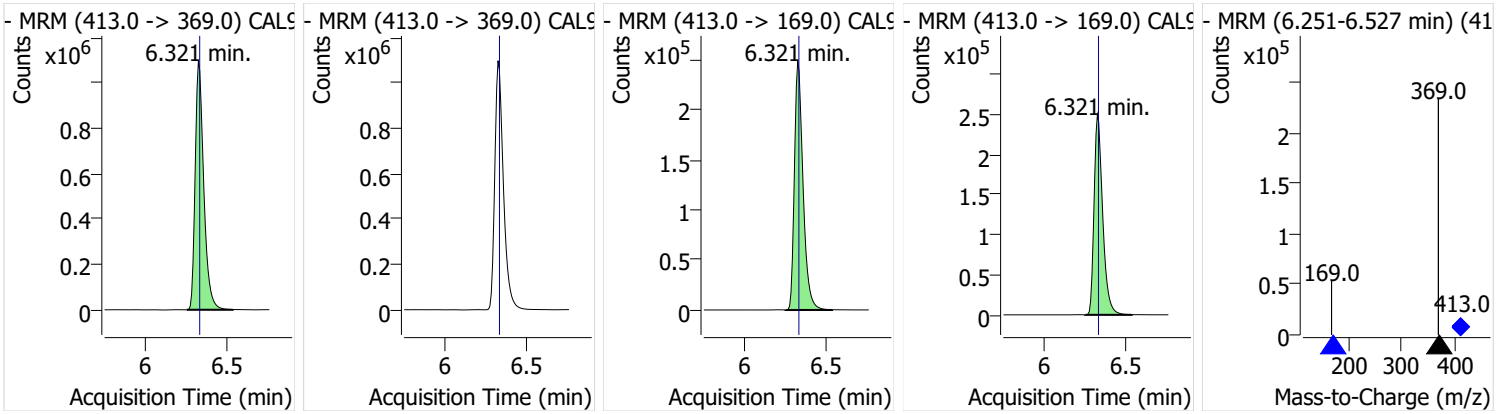

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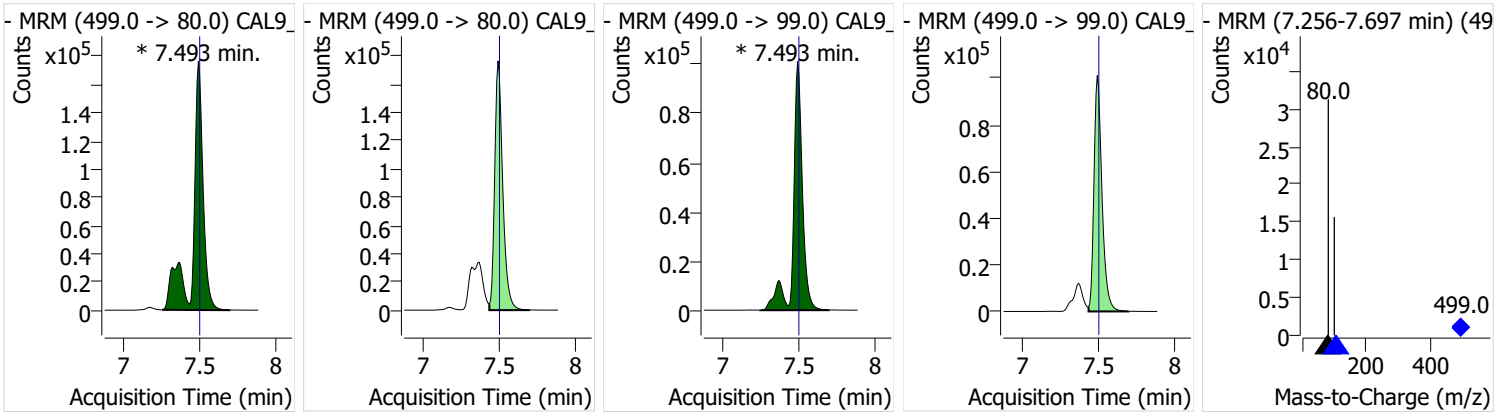

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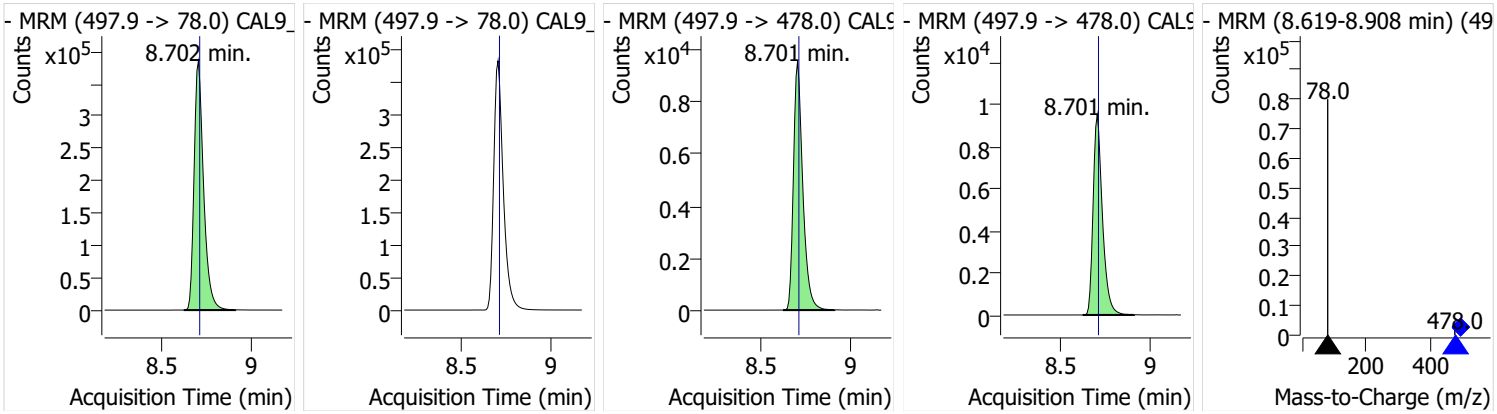

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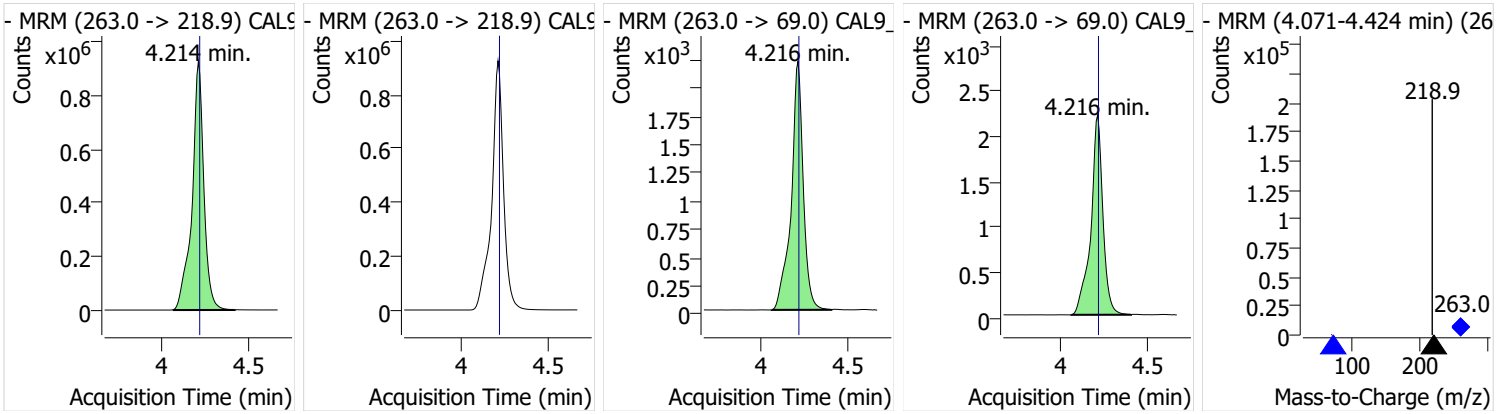

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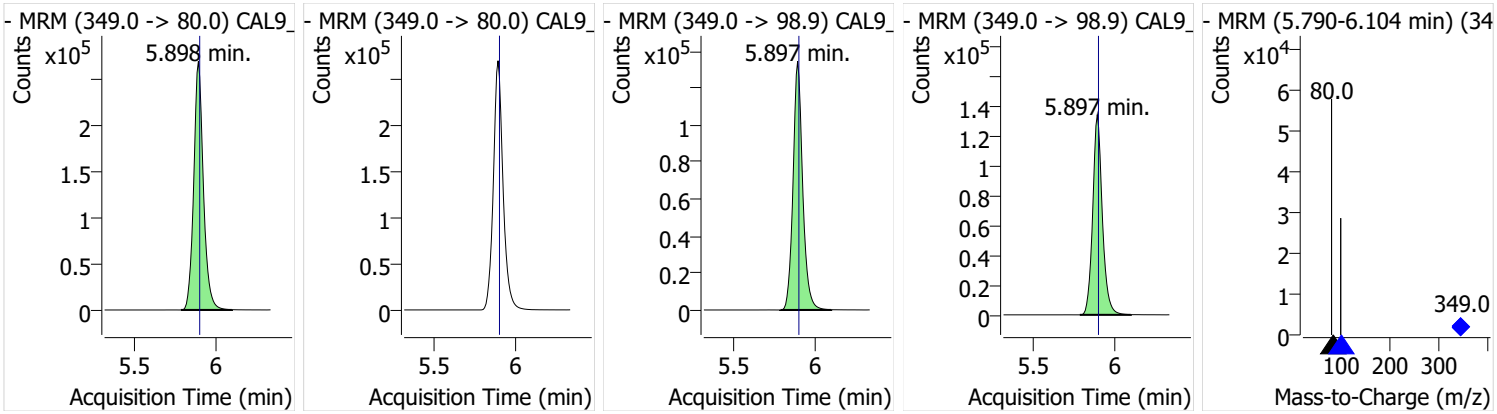

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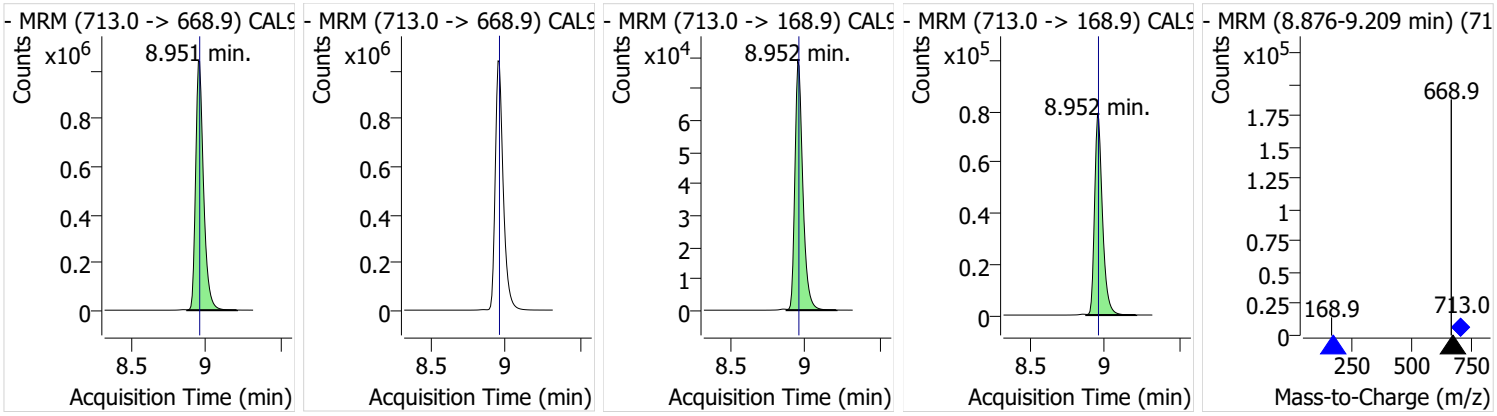

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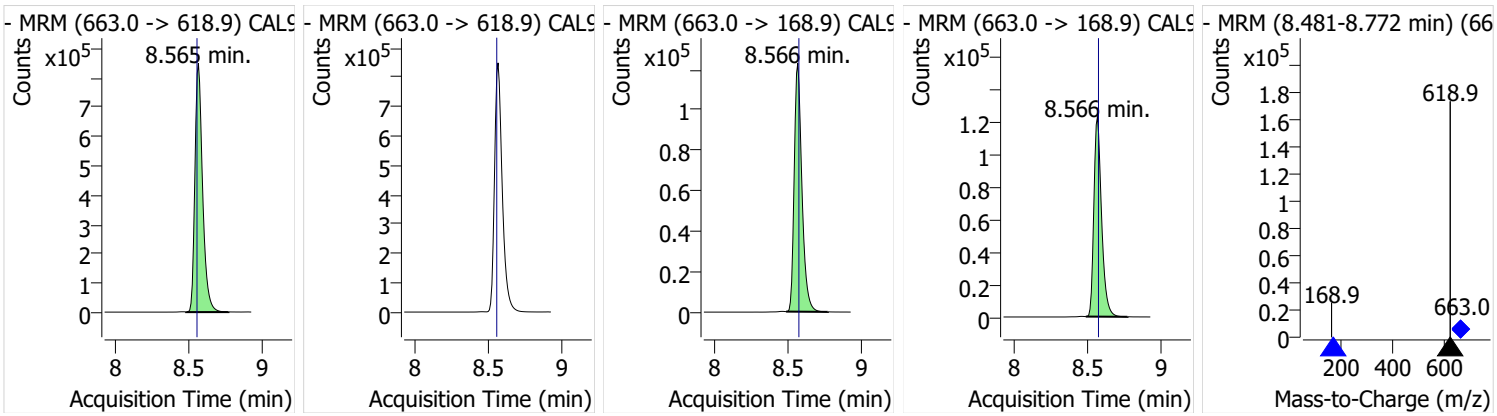

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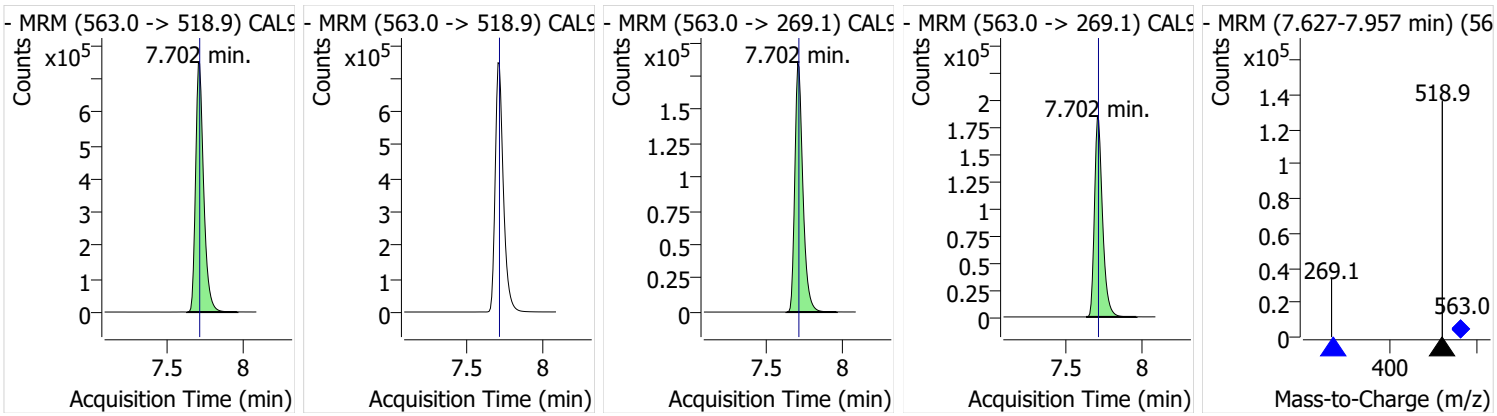

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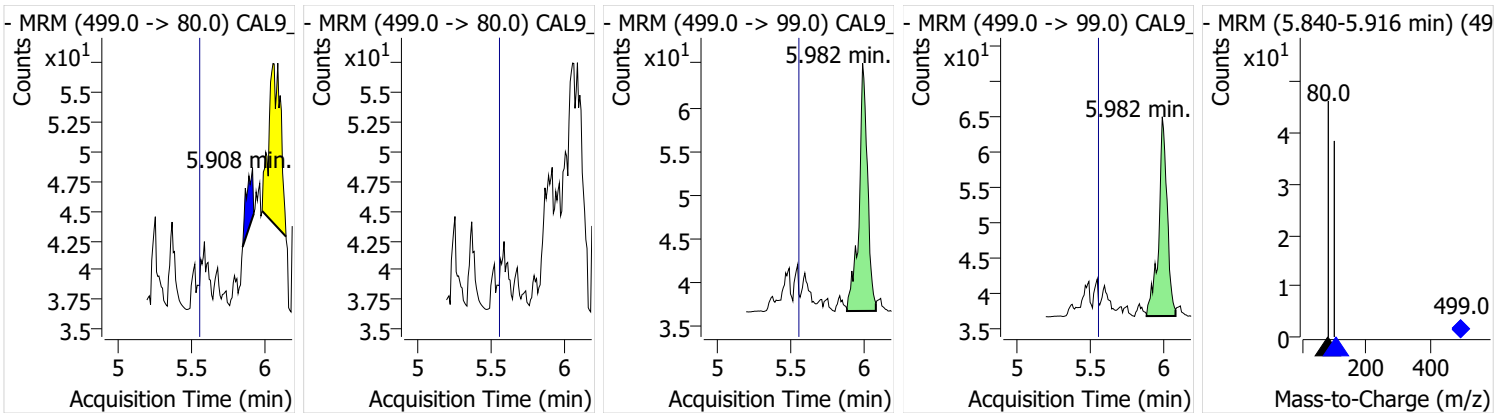

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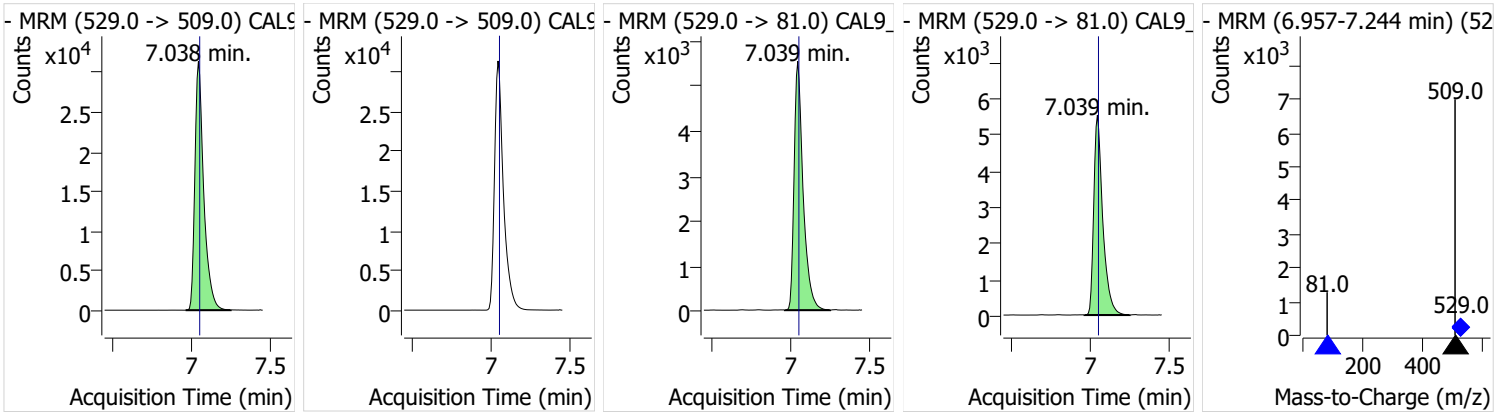

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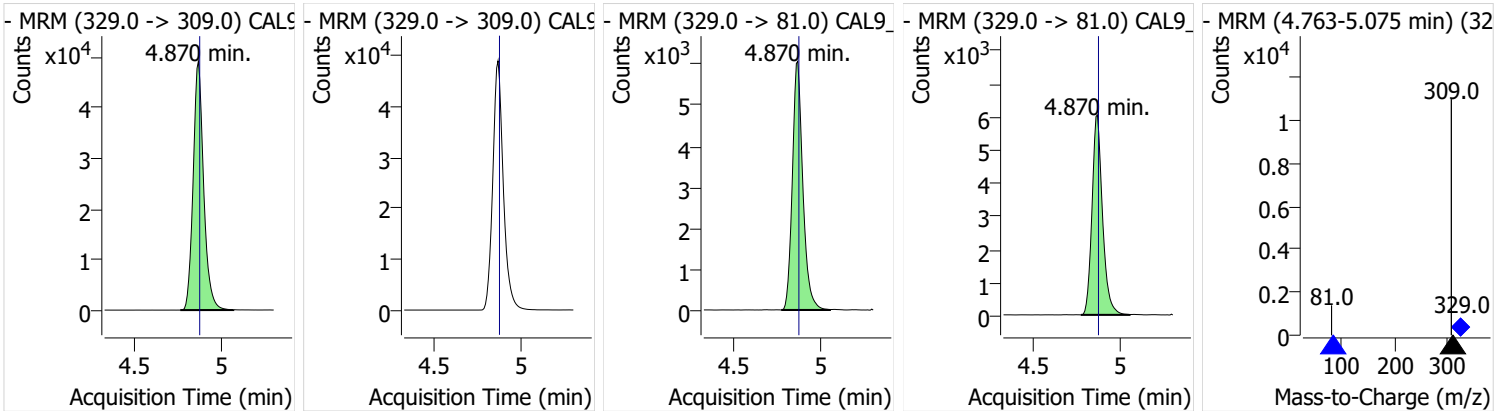

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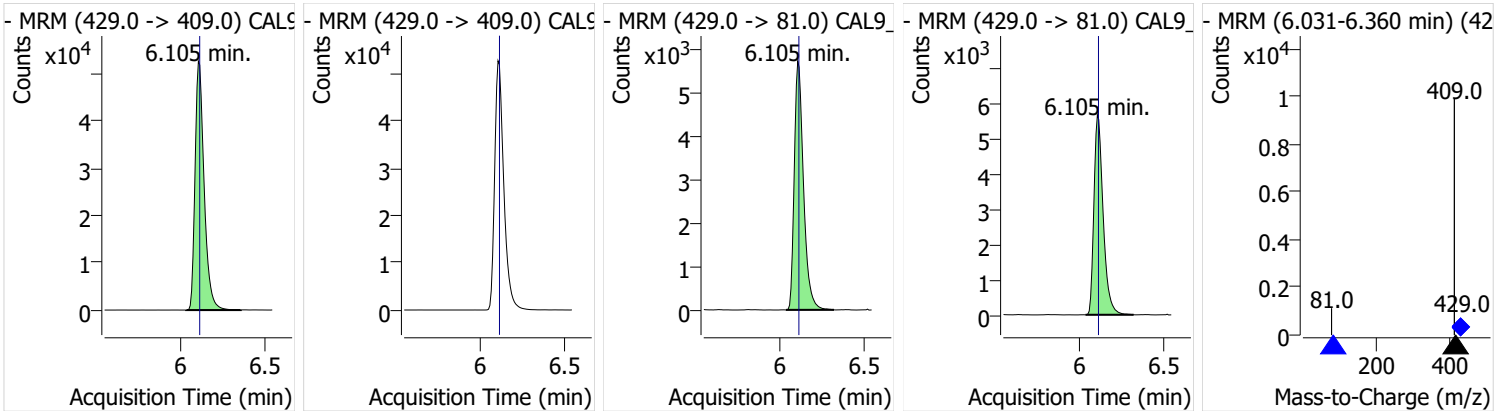

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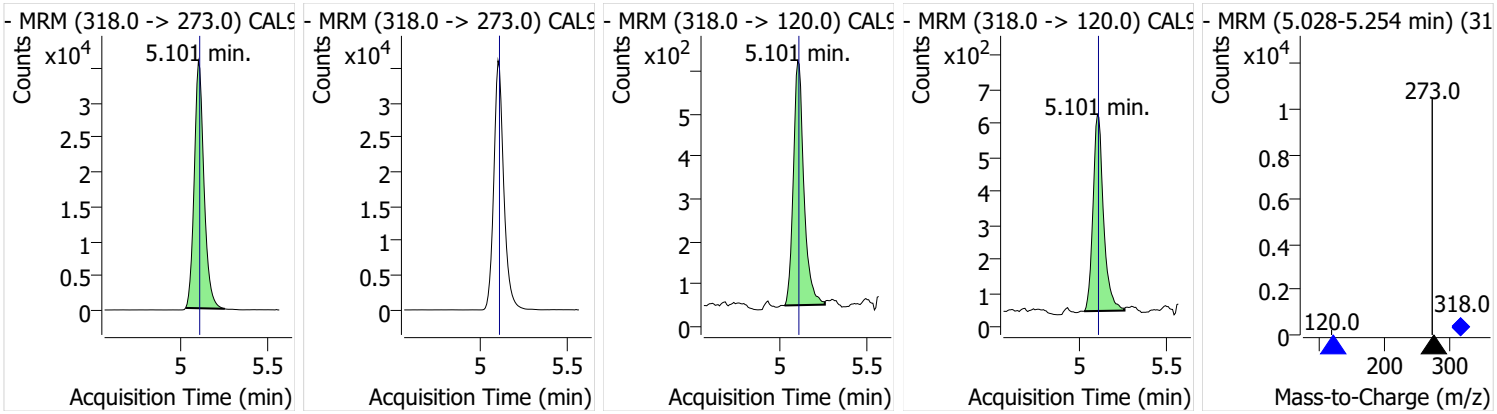

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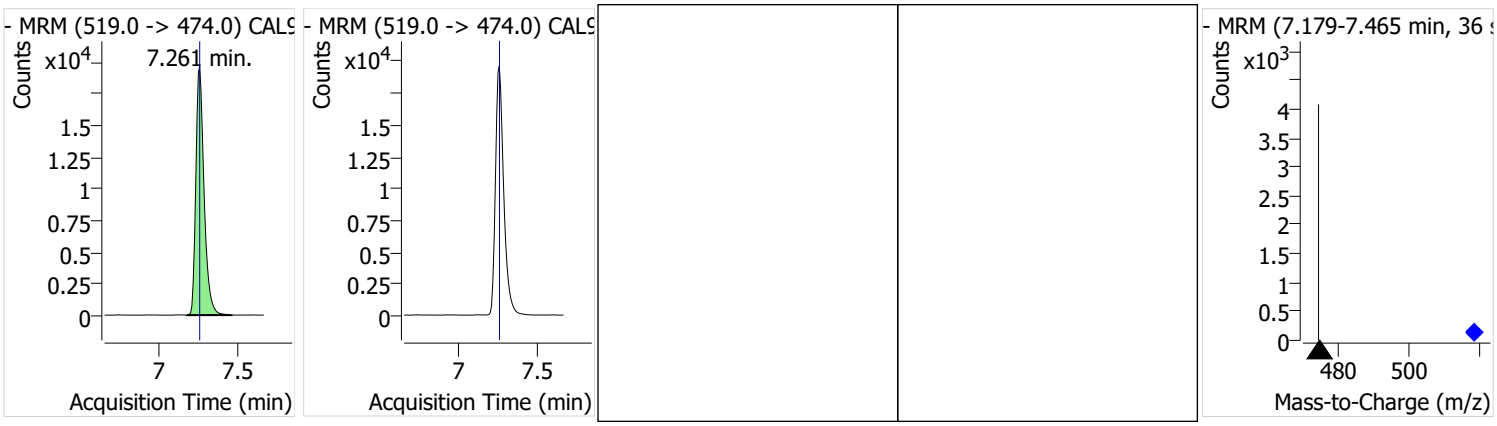

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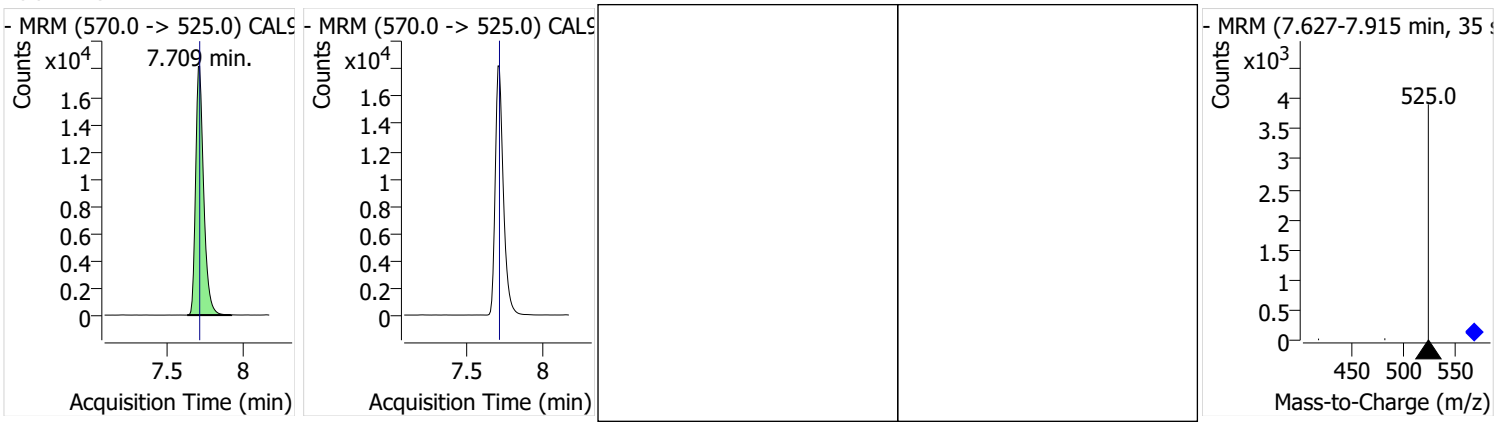

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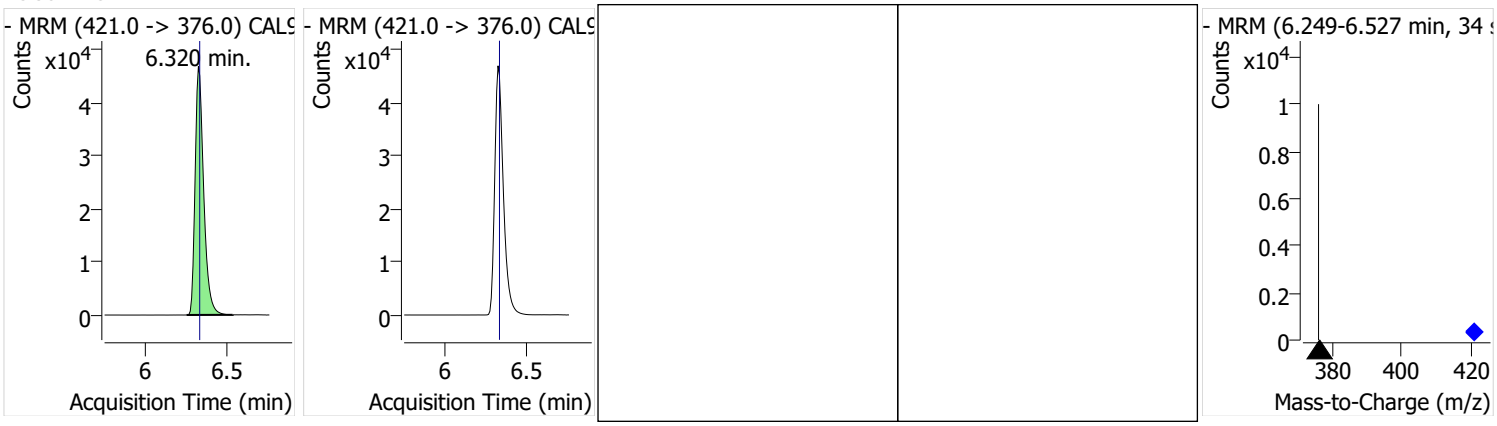

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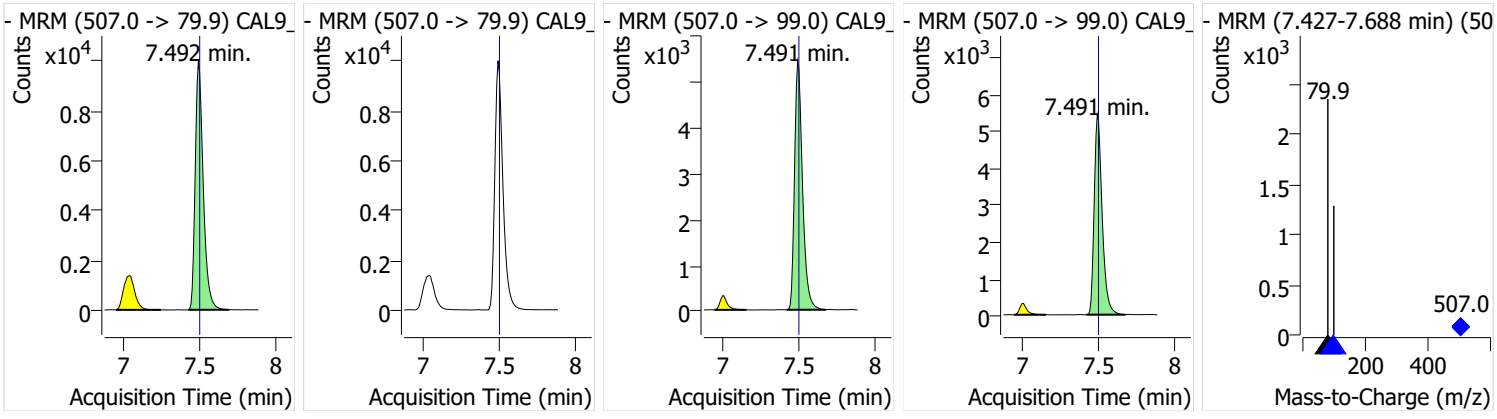

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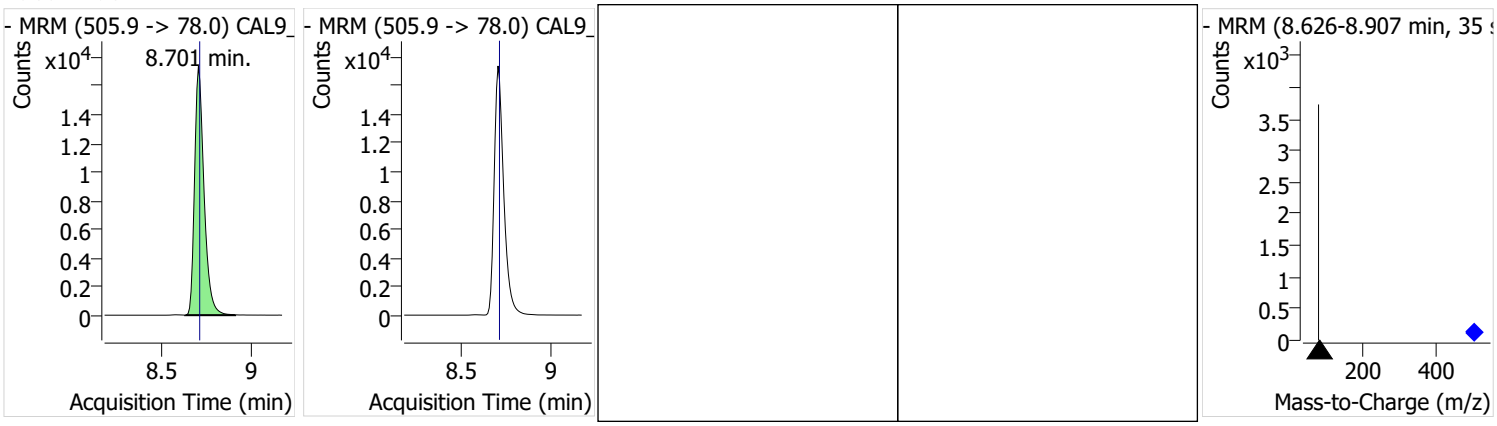

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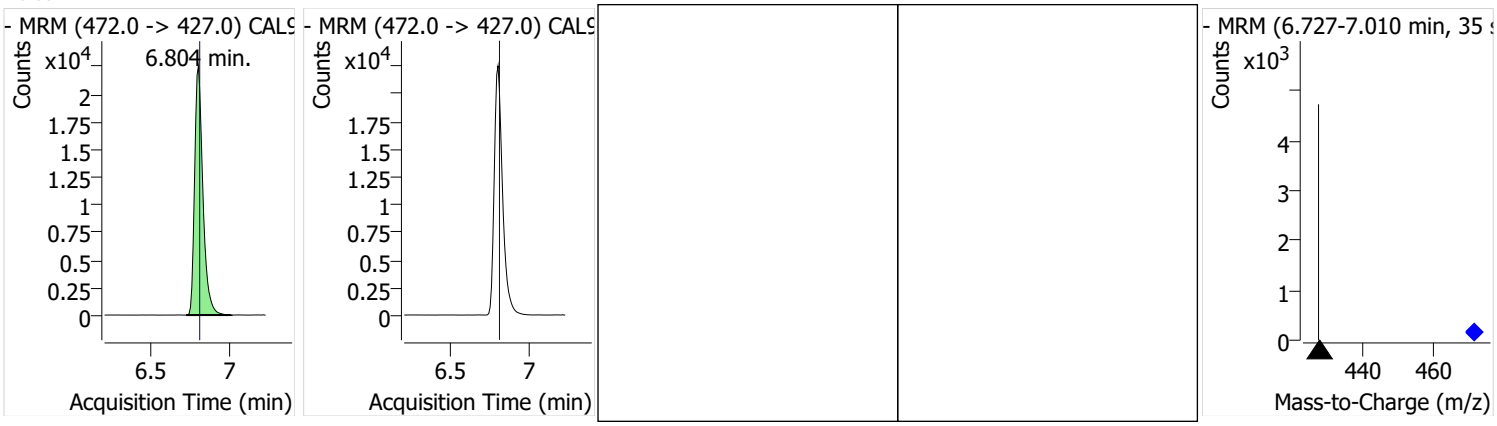

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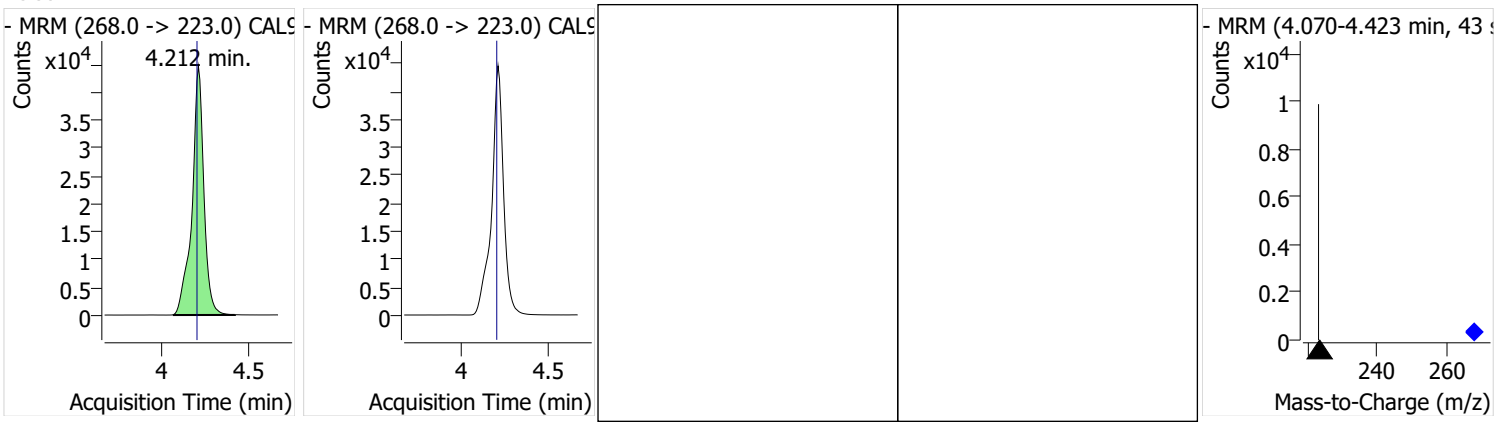

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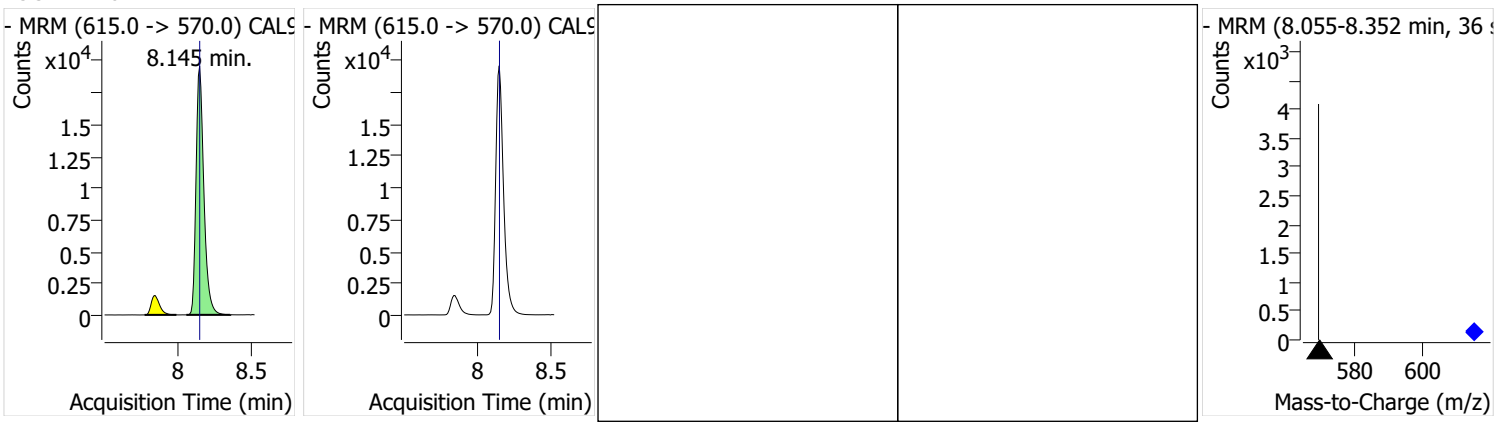
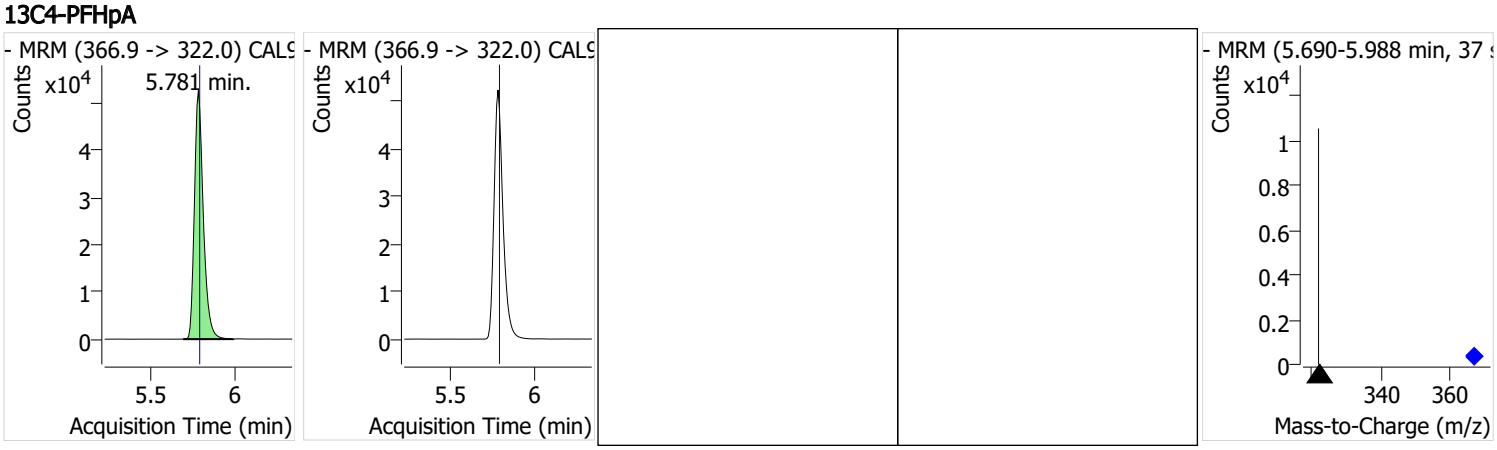
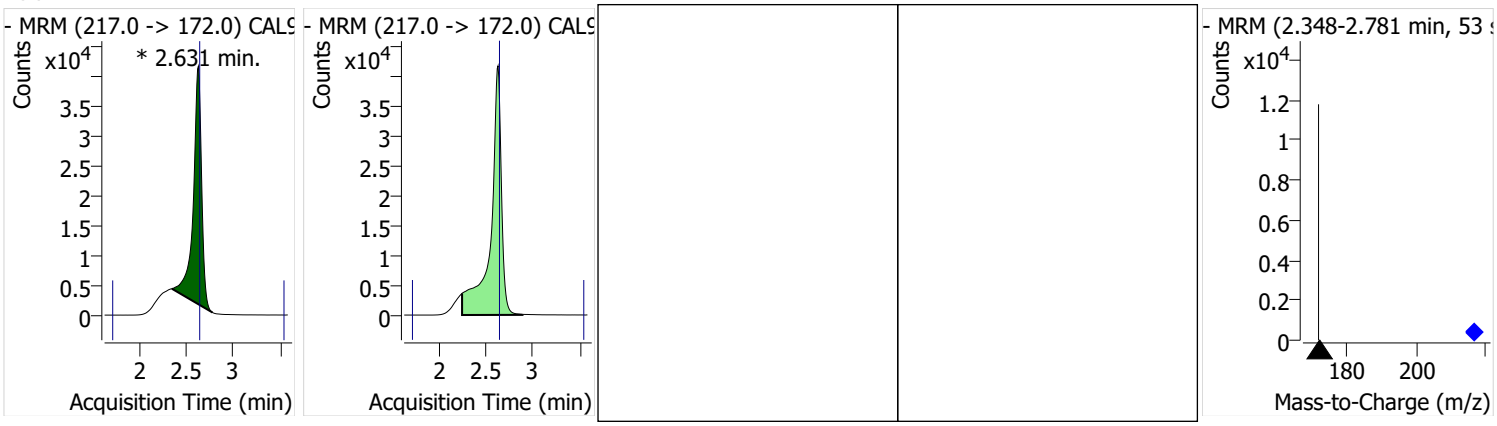


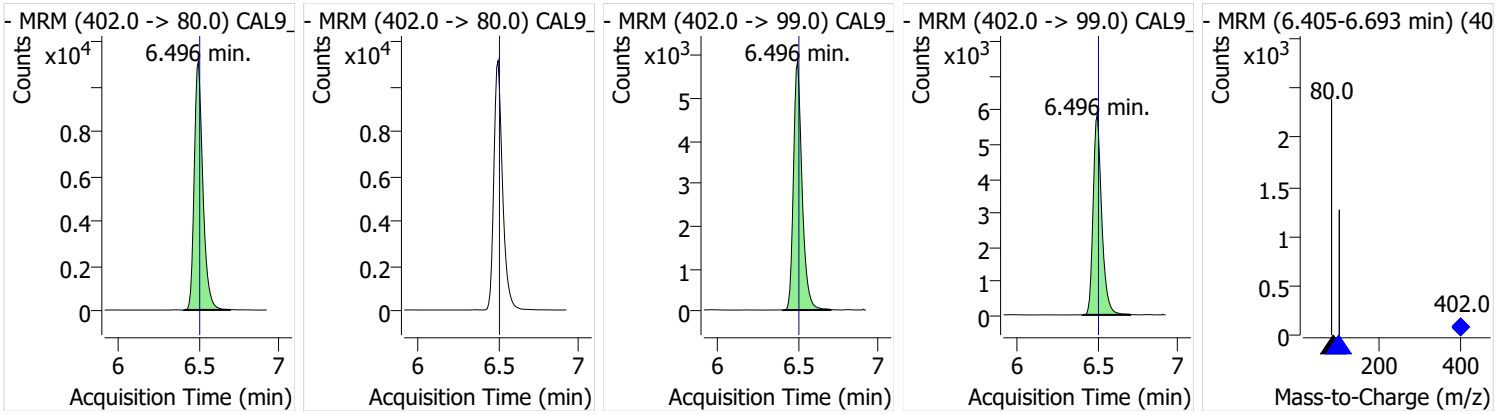
13C4-PFHpA



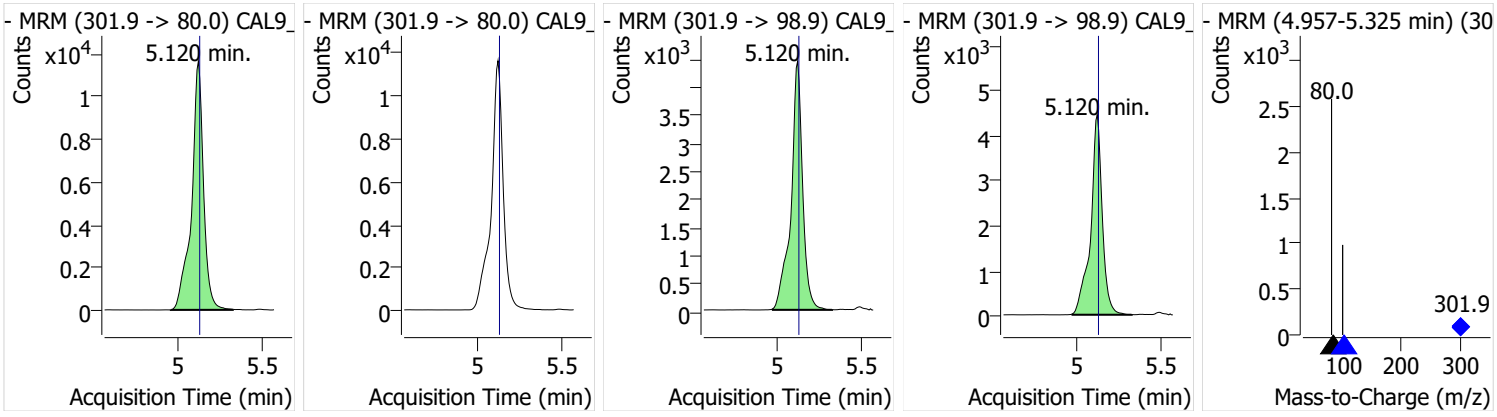
13C4-PFBA



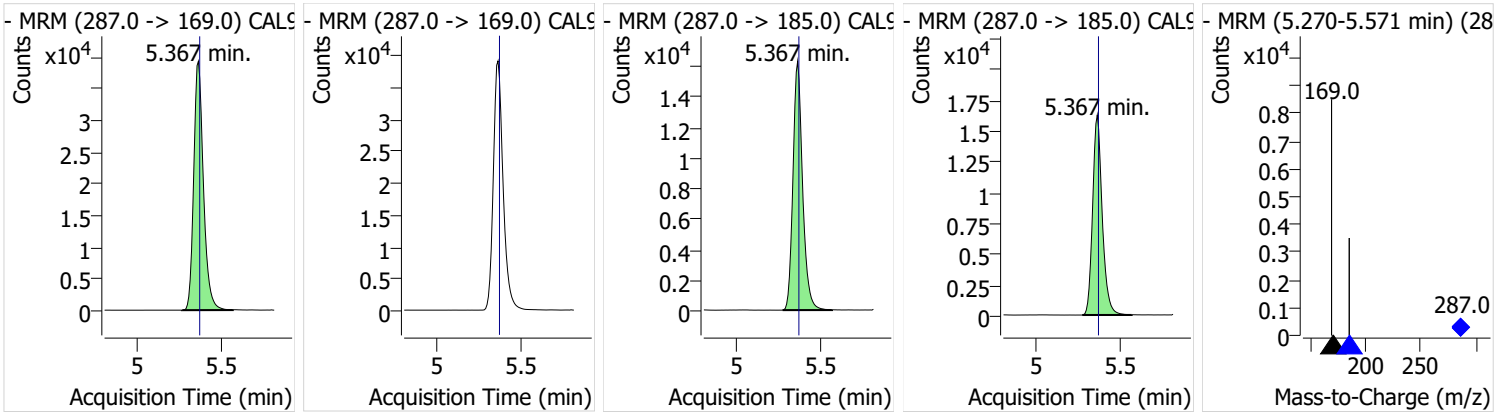
13C3-PFHxS



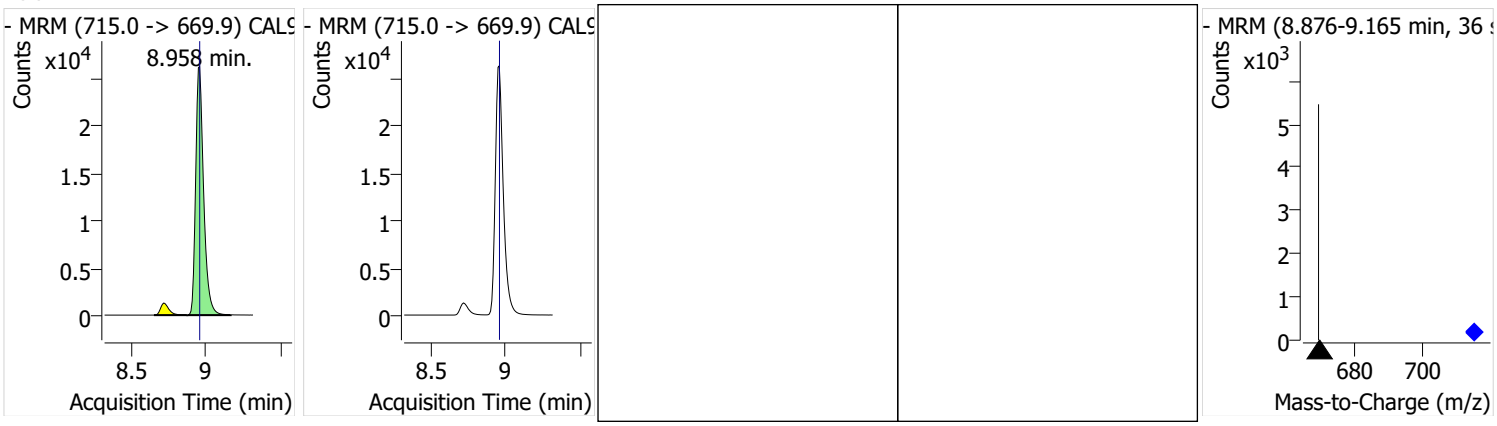
13C3-PFBS



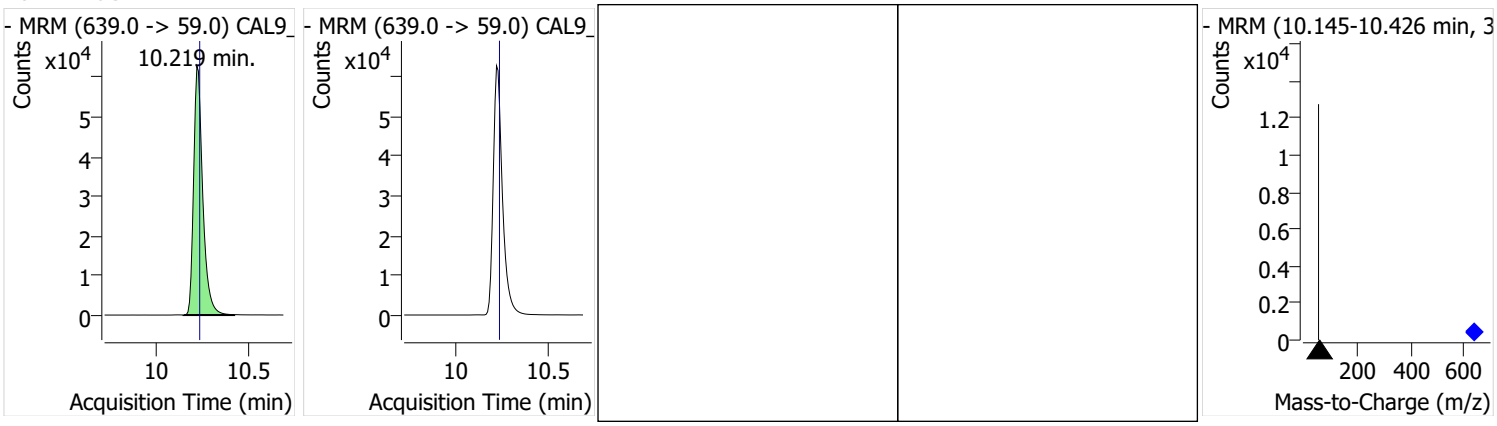
13C3-HFPODA



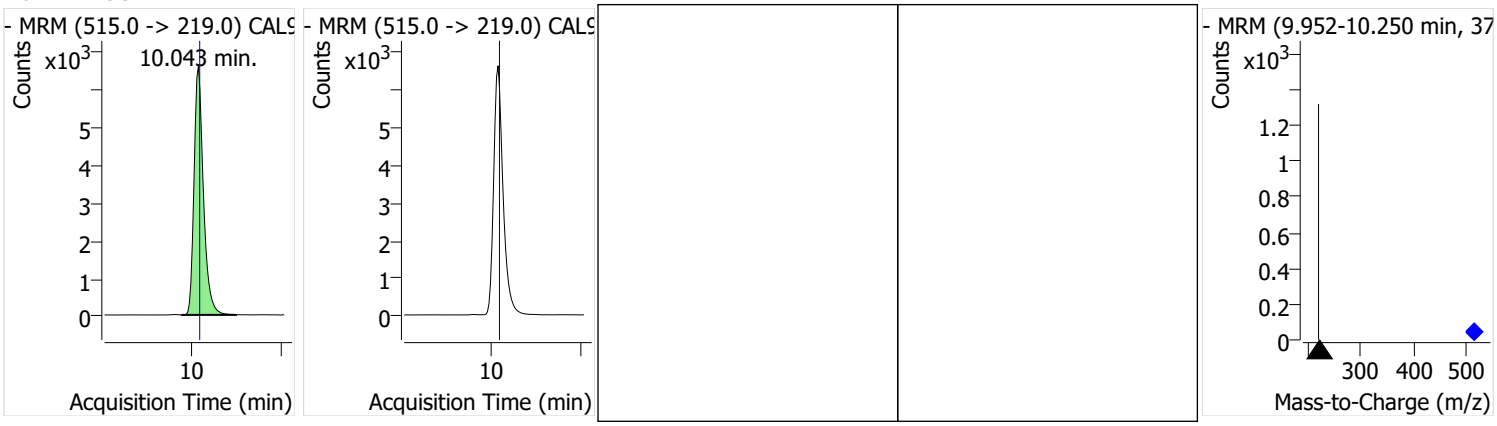
13C2-PFTeDA



D9-NEtFOSE



D3-NMeFOSA



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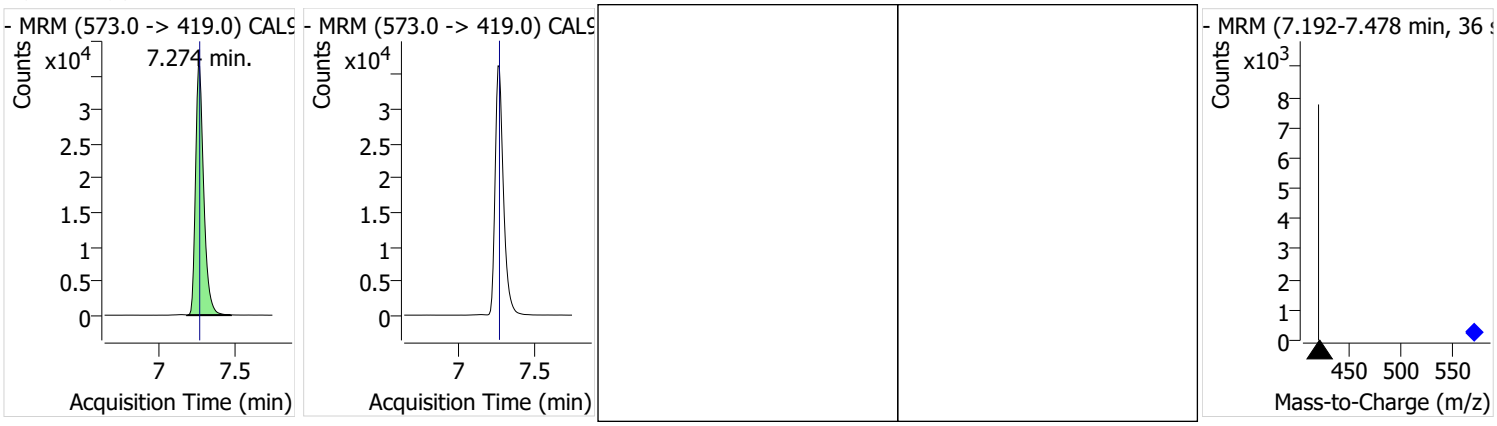
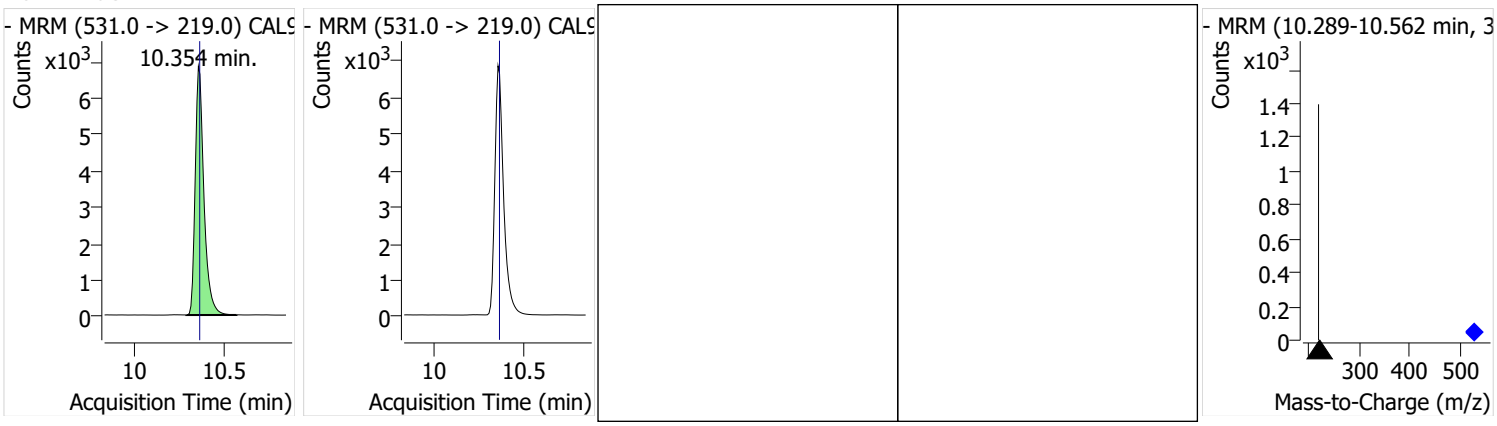


D5-NEtFOSA



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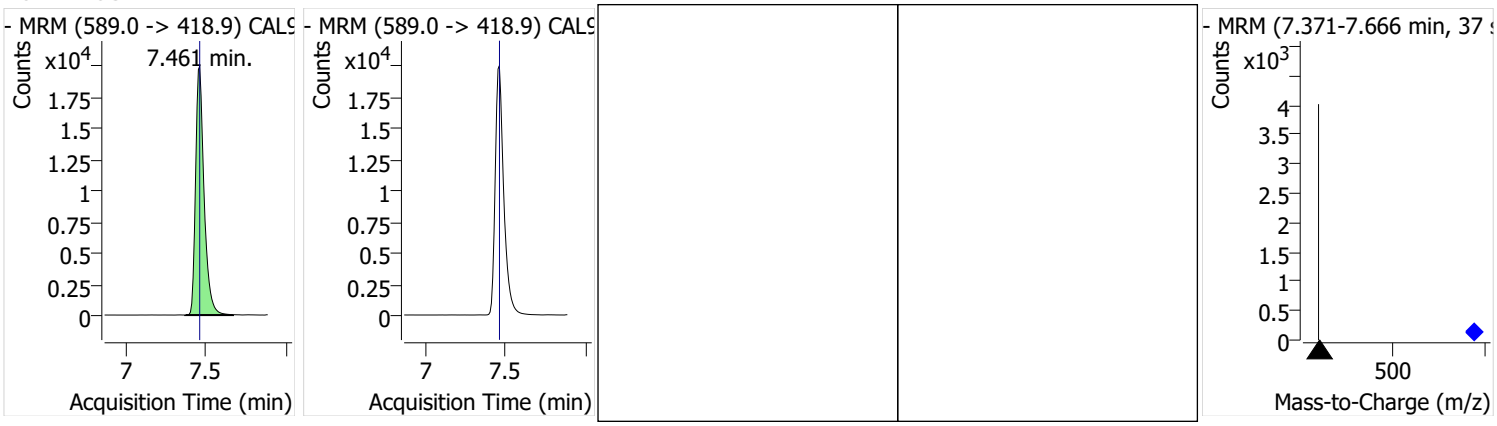
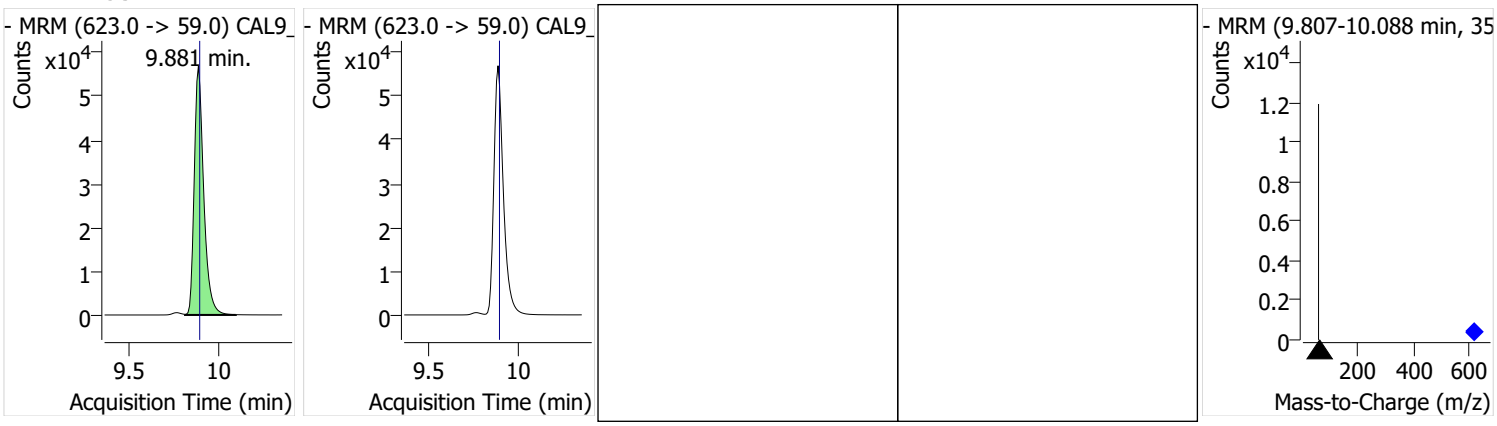


D7-NMeFOSE



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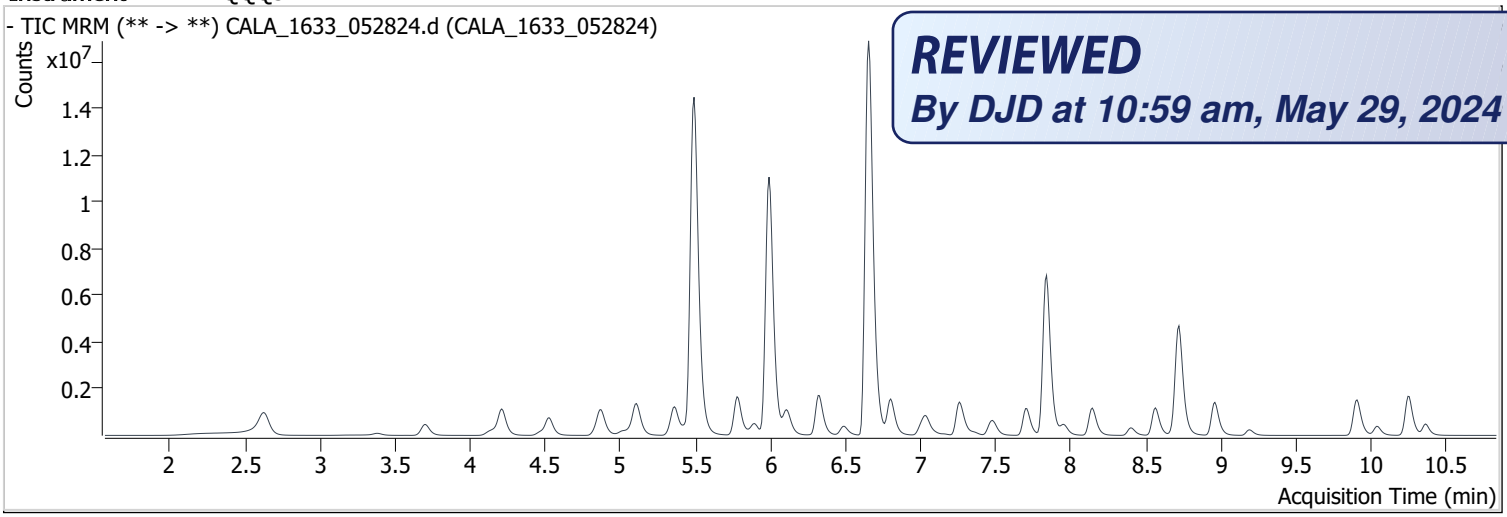
Acq. Time	5/28/2024 12:16 PM	**Data File**	CALA_1633_052824.d
Sample Type	Cal	**Sample Name**	CALA_1633_052824
Dilution	1	**Acq. Method**	1633_ACQUISITION.m
Sample Comment	E#24E0163	**Processing method**	1633_050624.m
Instrument	QQQ5		



REVIEWED
By DJD at 10:59 am, May 29, 2024

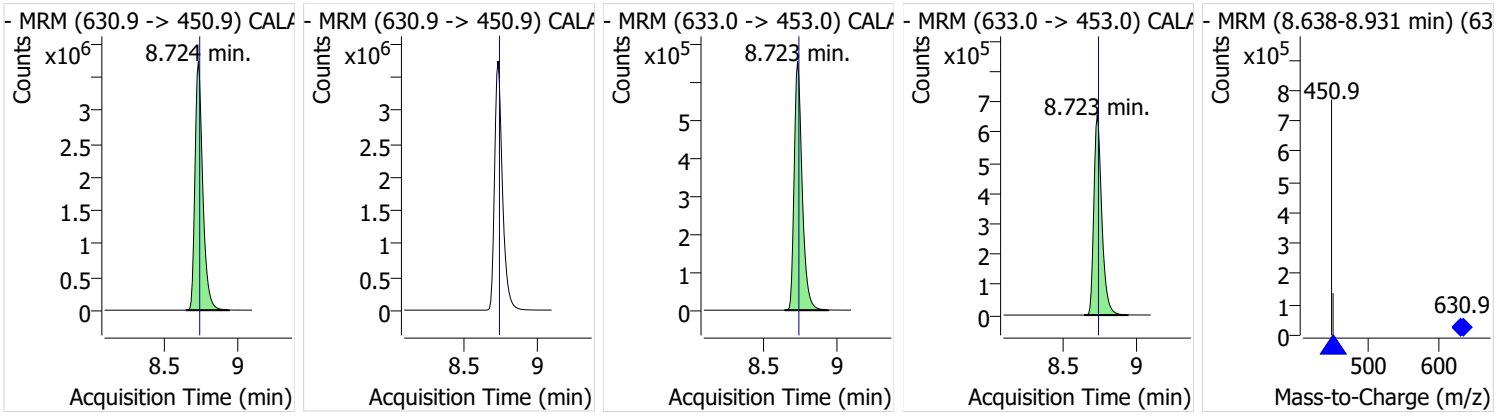
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
11Cl-PF3OUdS	8.724	13767147	1609885.74		13C3-HFPODA - ISTD	5.367	143858	253.0739	ng/ml			
633.0 -> 453.0			427609.08	17.9								
3:3FTCA	3.707	1323689	462444.89		13C5-PFPeA - ISTD	4.212	205190	734.0274	ng/ml			
241.0 -> 117.0			94626.08	51.2								
4:2FTS	4.871	3400195	829011.85		13C2-4:2FTS - ISTD	4.870	25226	214.2099	ng/ml			
327.0 -> 80.9			296576.34	34.8								
5:3FTCA	5.493	25466888	854074.57		13C5-PFHxA - ISTD	5.101	139421	3556.9194	ng/ml			
341.0 -> 217.0			938185.93	88.5								
6:2FTS	6.114	2533216	707939.38		13C2-6:2FTS - ISTD	6.105	21563	206.6380	ng/ml			
427.0 -> 80.9			149294.99	36.9								
7:3FTCA	6.657	33978706	9604.27		13C5-PFHxA - ISTD	5.101	139421	3789.4833	ng/ml			
441.0 -> 317.0			4969.08	91.5								
8:2FTS	7.039	1497226	608288.60		13C2-8:2FTS - ISTD	7.039	20742	201.0487	ng/ml			
527.0 -> 81.0			138606.85	59.1								
9Cl-PF3ONS	7.843	20608822	741155.15		13C3-HFPODA - ISTD	5.367	143858	252.3823	ng/ml			
533.0 -> 353.0			82308.77	23.2								
ADONA	5.995	30714988	1086648.66		13C3-HFPODA - ISTD	5.367	143858	284.2415	ng/ml			
377.0 -> 85.1			537527.42	34.3								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA	5.368	3183416	367295.92		13C3-HFPODA - ISTD	5.367	143858	259.1941	ng/ml			
285.0 -> 184.9			71659.32	49.7								
NEtFOSA	10.364	761220	347573.61		D5-NEtFOSA - ISTD	10.354	22120	65.0132	ng/ml			
526.0 -> 219.0			284602.04	97.5								
NEtFOSAA	7.461	945479	7888.37		D5-NEtFOSAA - ISTD	7.453	71107	62.8877	ng/ml	✔	3	AMS 05/29/24
584.0 -> 526.0			1926.88	65.2								
NEtFOSE	10.253	5944920	304317.84		D9-NEtFOSE - ISTD	10.219	215260	601.3808	ng/ml			
NFDHA	5.023	437654	91186.42		13C5-PFHxA - ISTD	5.101	139421	112.0529	ng/ml			
295.0 -> 85.0			24399.15	30.9								
NMeFOSA	10.044	684753	180991.61		D3-NMeFOSA - ISTD	10.043	24526	59.4866	ng/ml			
512.0 -> 219.0			252319.11	93.3								
NMeFOSAA	7.275	649807	9477.73		D3-NMeFOSAA - ISTD	7.274	132251	67.3677	ng/ml	✔	3	AMS 05/29/24
570.0 -> 418.9			29054.57	58.5								
NMeFOSE	9.907	5603239	325404.62		D7-NMeFOSE - ISTD	9.881	202114	618.8753	ng/ml			
PFBA	2.628	5278472	17175.22		13C4-PFBA - ISTD	2.631	235550	247.4655	ng/ml	✔	3	AMS 05/29/24
PFBS	5.121	1473761	203303.95		13C3-PFBS - ISTD	5.120	54934	56.7944	ng/ml			
298.9 -> 98.8			59287.07	40.7								
PFDA	7.262	3550842	64920.11		13C6-PFDA - ISTD	7.261	68136	66.5284	ng/ml			
513.0 -> 219.0			107753.40	21.2								
PFDoA	8.145	3592880	159991.21		13C2-PFDoA - ISTD	8.145	71460	62.6148	ng/ml			
613.0 -> 319.0			79628.06	17.5								
PFDoS	9.197	526322	458746.81		13C8-PFOS - ISTD	7.492	35348	61.0154	ng/ml			
698.9 -> 99.0			200939.86	66.0								
PFDS	8.403	742558	137474.28		13C8-PFOS - ISTD	7.492	35348	60.0519	ng/ml			
599.0 -> 98.8			229036.21	59.9								
PFEESA	5.503	8511017	827249.74		13C5-PFHxA - ISTD	5.101	139421	104.0953	ng/ml			
315.0 -> 83.0			162675.03	6.8								
PFHpA	5.781	5098864	132900.23		13C4-PFHpA - ISTD	5.781	186246	66.1208	ng/ml			
362.9 -> 169.0			49516.69	15.1								
PFHpS	7.011	999573	75144.00		13C8-PFOS - ISTD	7.492	35348	58.8463	ng/ml			
449.0 -> 98.8			95896.17	52.6								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFHxA	5.103	3515937	93442.12		13C5-PFHxA - ISTD	5.101	139421	64.3562	ng/ml			
313.0 -> 118.9			14352.17	3.0								
PFHxS	6.497	1127195	2122.86		13C3-PFHxS - ISTD	6.496	40119	58.9083	ng/ml	✔	3	AMS 05/29/24
398.9 -> 99.0			8552.81	48.2								
PFMBA	4.530	3483424	615621.13		13C5-PFPeA - ISTD	4.212	205190	128.9413	ng/ml			
PFMPA	3.382	375536	1175.04		13C5-PFPeA - ISTD	4.212	205190	131.3095	ng/ml	✔	3	AMS 05/29/24
PFNA	6.804	4159922	93401.98		13C9-PFNA - ISTD	6.804	80137	65.8925	ng/ml			
463.0 -> 219.0			230456.59	22.7								
PFNS	7.959	915139	60305.61		13C8-PFOS - ISTD	7.492	35348	60.1104	ng/ml			
549.0 -> 98.8			145531.10	56.1								
PFOA	6.321	4811027	8480.93		13C8-PFOA - ISTD	6.320	165151	63.4409	ng/ml			
413.0 -> 169.0			114785.63	22.7								
PFOS	7.493	1025181	2032.88		13C8-PFOS - ISTD	7.492	35348	59.8183	ng/ml	✔	3	AMS 05/29/24
499.0 -> 99.0			33635.38	50.3								
PFOSA	8.702	1731669	580167.03		13C8-PFOSA - ISTD	8.701	62897	63.9119	ng/ml			
497.9 -> 478.0			223205.33	2.5								
PFPeA	4.214	5277835	201359.19		13C5-PFPeA - ISTD	4.212	205190	130.5469	ng/ml			
263.0 -> 69.0			5423.92	0.2								
PFPeS	5.898	1345229	101239.94		13C3-PFHxS - ISTD	6.496	40119	61.8971	ng/ml			
349.0 -> 98.9			180083.34	49.0								
PFTeDA	8.959	4664893	221008.64		13C2-PFTeDA - ISTD	8.958	98138	61.3928	ng/ml			
713.0 -> 168.9			190818.38	7.6								
PFTrDA	8.565	3780815	341636.88		13C2-PFDoA - ISTD	8.145	71460	63.6383	ng/ml			
663.0 -> 168.9			433363.71	14.7								
PFUnA	7.702	3360577	104327.96		13C7-PFUnA - ISTD	7.701	63716	68.0256	ng/ml			
563.0 -> 269.1			126277.29	24.0								
TDCA	5.515	9	4.64					-	ng/ml			
499.0 -> 99.0				*								
13C2-8:2FTS	7.038	133976	427498.09		18O2-PFHxS	6.495	39421	12.4446	ng/ml			
529.0 -> 81.0			16570.84	***15.5**								
13C2-4:2FTS	4.870	235391	68100.66		18O2-PFHxS	6.495	39421	11.7291	ng/ml			

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
329.0 -> 81.0			2886.97	*10.7								
13C2-6:2FTS	6.113	214023	40556.44		18O2-PFHxS	6.495	39421	11.9981	ng/ml			
429.0 -> 81.0			3666.28	*10.1								
13C5-PFHxA	5.101	139421	27203.84		13C2-PFHxA	5.102	127885	2.5731	ng/ml			
318.0 -> 120.0			124.07	1.5								
13C6-PFDA	7.261	68136	3199.24		13C2-PFDA	7.262	71581	1.1954	ng/ml			
13C7-PFUnA	7.701	63716	17285.97		13C2-PFDA	7.262	71581	1.1957	ng/ml			
13C8-PFOA	6.320	165151	20873.22		13C4-PFOA	6.320	19845	2.5434	ng/ml			
13C8-PFOS	7.492	35348	1742.77		13C4-PFOS	7.492	36759	2.5926	ng/ml			
507.0 -> 99.0			2725.14	53.2								
13C8-PFOSA	8.701	62897	676942.11		13C4-PFOS	7.492	36759	2.5530	ng/ml			
13C9-PFNA	6.804	80137	14249.24		13C5-PFNA	6.804	101947	1.2775	ng/ml			
13C5-PFPeA	4.212	205190	14790.67		13C2-PFHxA	5.102	127885	5.1068	ng/ml			
13C2-PFDoA	8.145	71460	10939.28		13C2-PFDA	7.262	71581	1.2992	ng/ml			
13C4-PFHpA	5.781	186246	24879.10		13C2-PFHxA	5.102	127885	2.6348	ng/ml			
13C4-PFBA	2.631	231709	23080.81		13C3-PFBA	2.625	104206	10.1786	ng/ml	✔	3	AMS 05/29/24
13C3-PFHxS	6.496	40119	19391.96		18O2-PFHxS	6.495	39421	2.4798	ng/ml			
402.0 -> 99.0			7416.15	55.3								
13C3-PFBS	5.120	54934	7419.56		18O2-PFHxS	6.495	39421	2.3465	ng/ml			
301.9 -> 98.9			6326.51	36.8								
13C3-HFPODA	5.367	143858	61132.82		13C2-PFHxA	5.102	127885	9.2573	ng/ml			
287.0 -> 185.0			10356.92	43.7								
13C2-PFTeDA	8.958	98138	31622.41		13C2-PFDA	7.262	71581	1.3232	ng/ml			
D9-NEtFOSE	10.219	215260	41904.41		13C4-PFOS	7.492	36759	27.0089	ng/ml			
D3-NMeFOSA	10.043	24526	11808.04		13C4-PFOS	7.492	36759	3.0473	ng/ml			
D3-NMeFOSAA	7.274	132251	8548.73		13C4-PFOS	7.492	36759	4.8410	ng/ml			
D5-NEtFOSA	10.354	22120	5247.24		13C4-PFOS	7.492	36759	2.6997	ng/ml			
D5-NEtFOSAA	7.453	71107	12928.50		13C4-PFOS	7.492	36759	5.1991	ng/ml			
D7-NMeFOSE	9.881	202114	197571.22		13C4-PFOS	7.492	36759	27.1366	ng/ml			

11Cl-PF3OUdS



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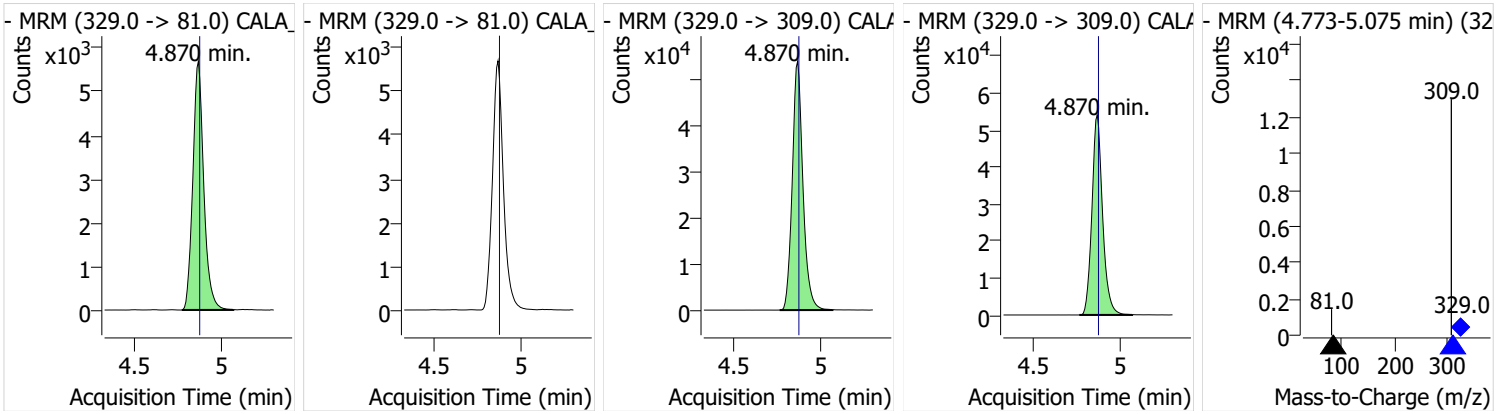

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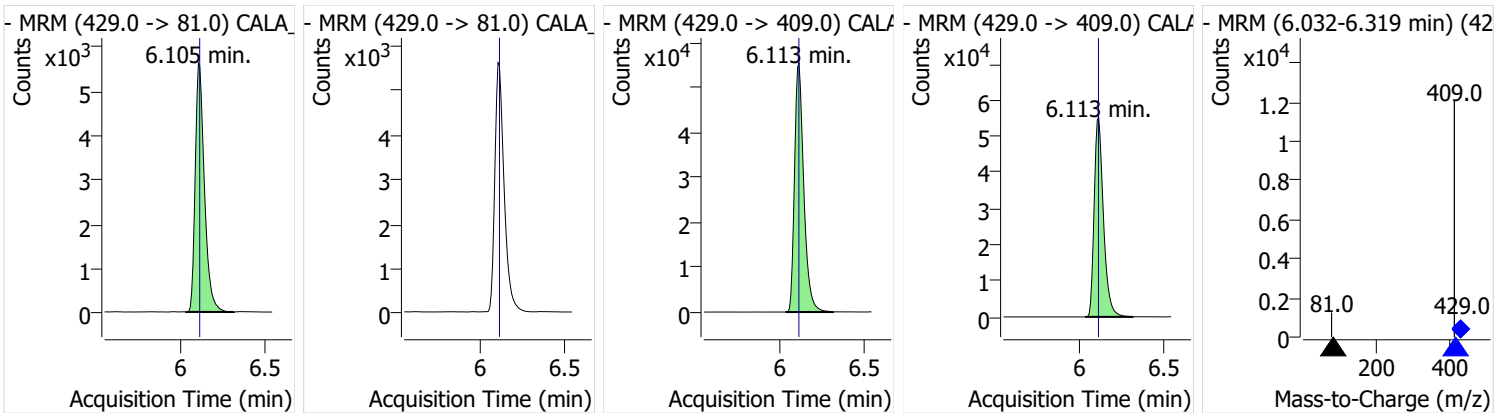

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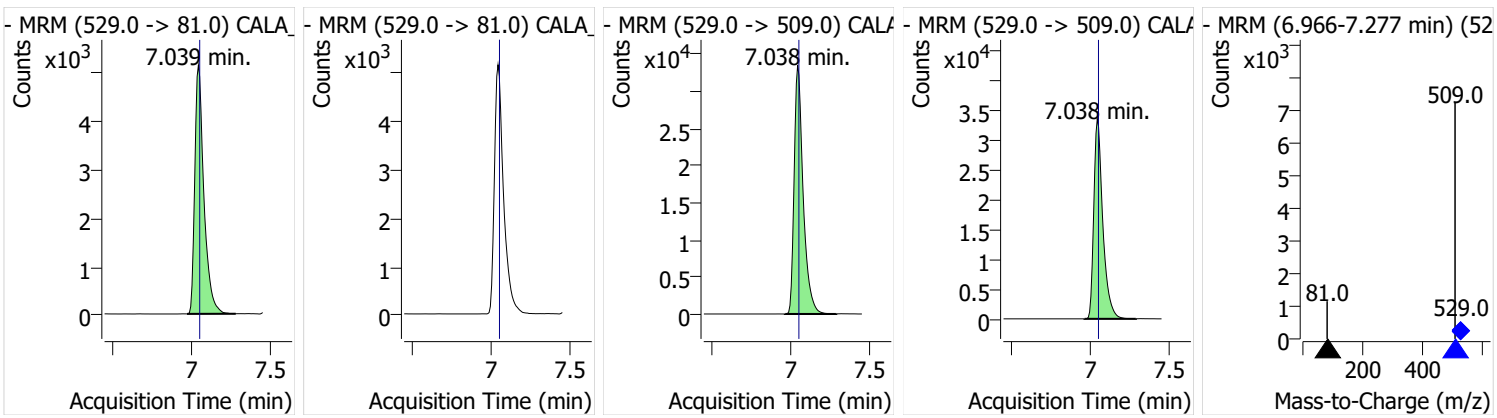

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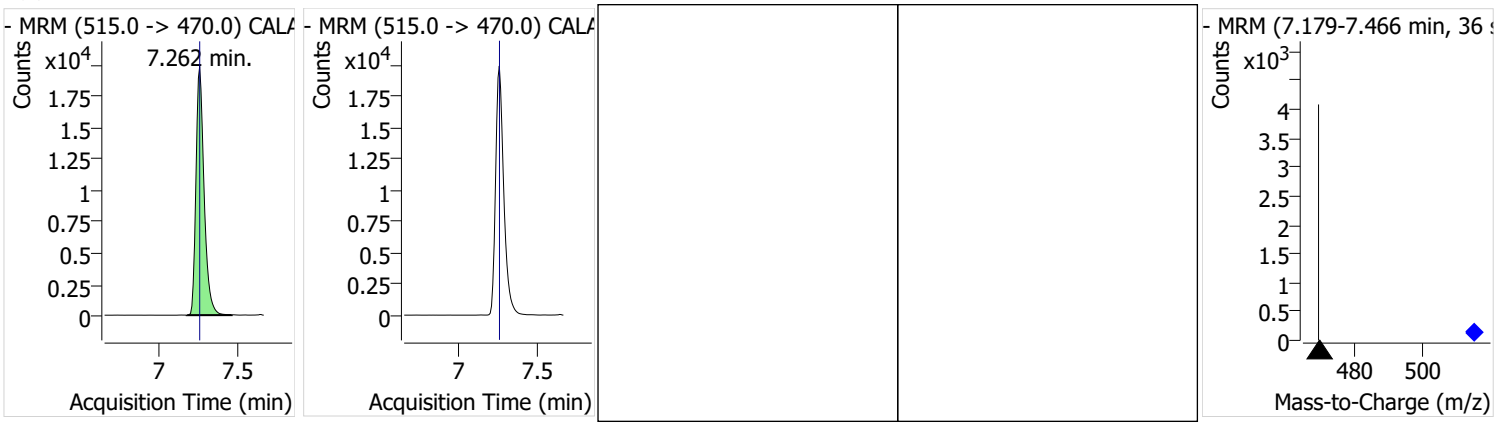
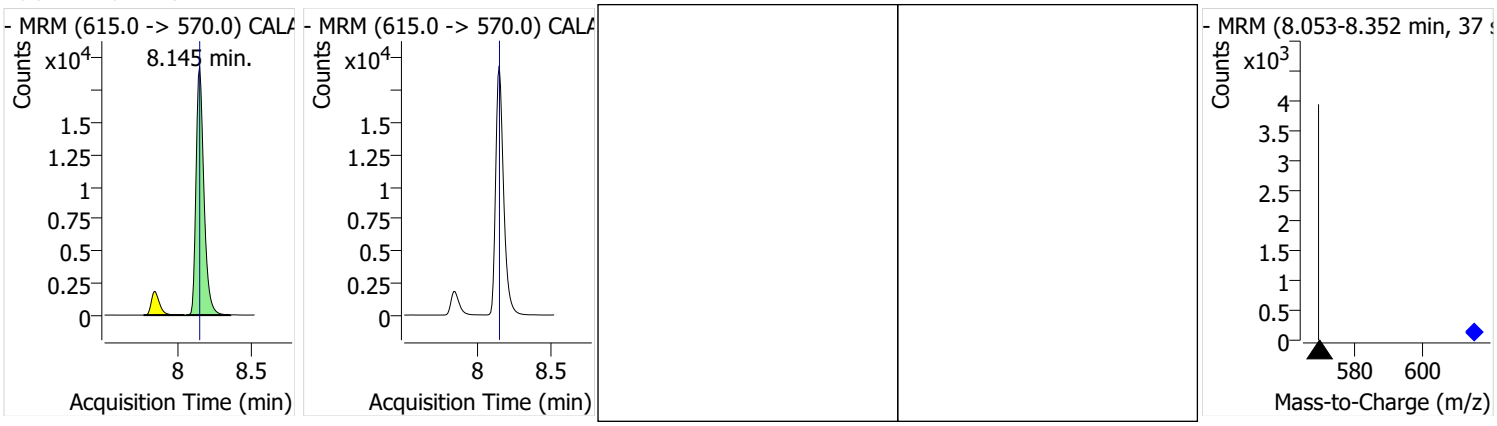
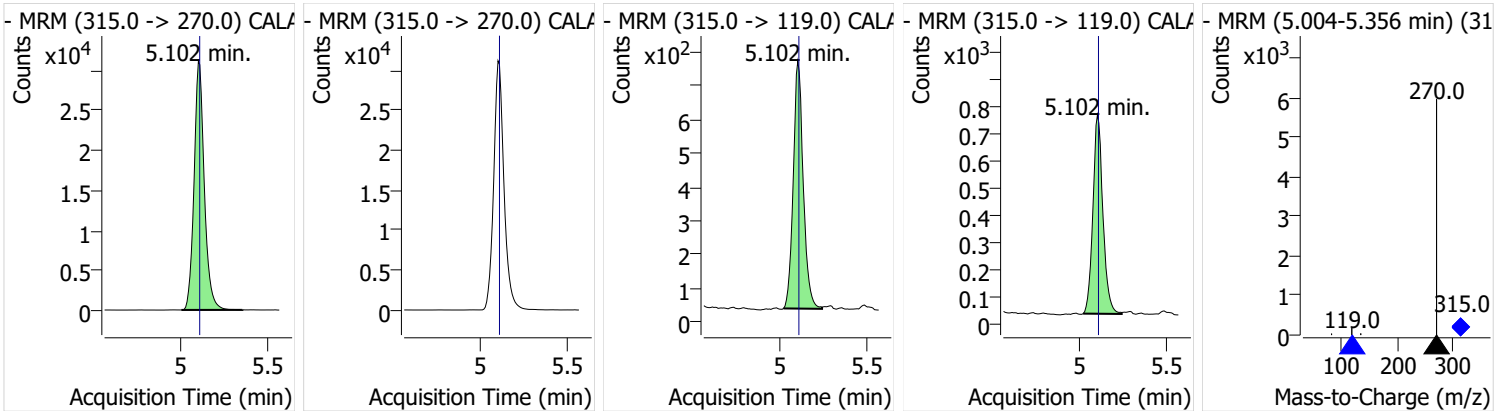


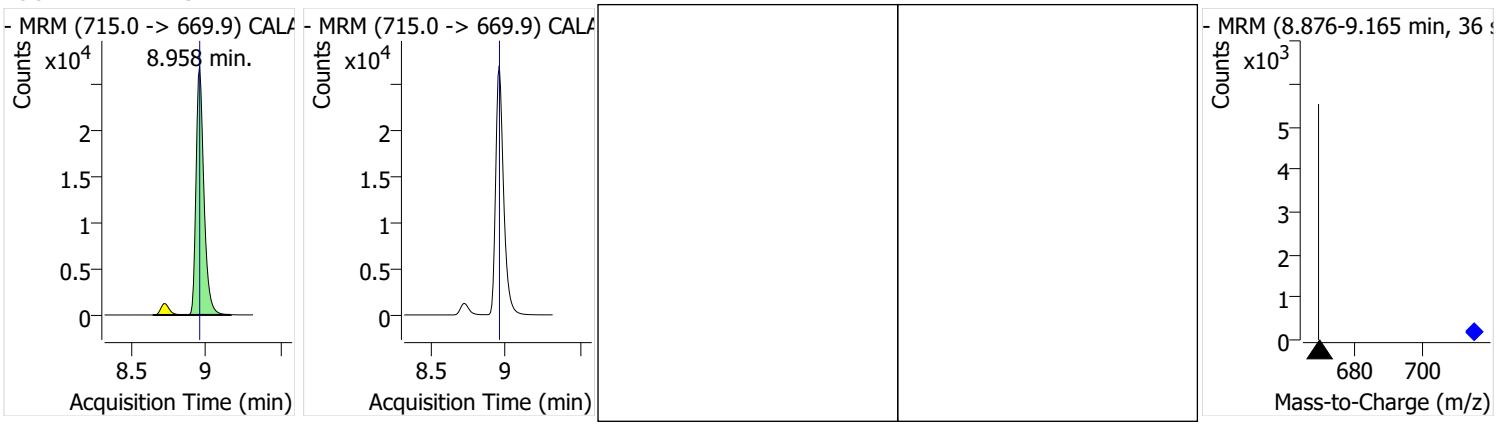
13C2-PFDoA - ISTD



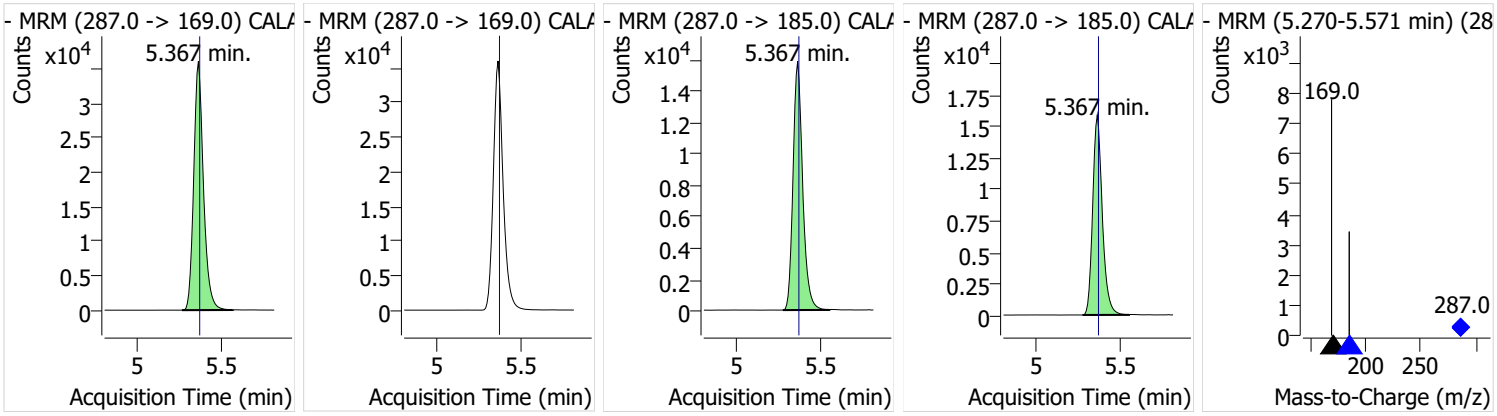
13C2-PFHxA



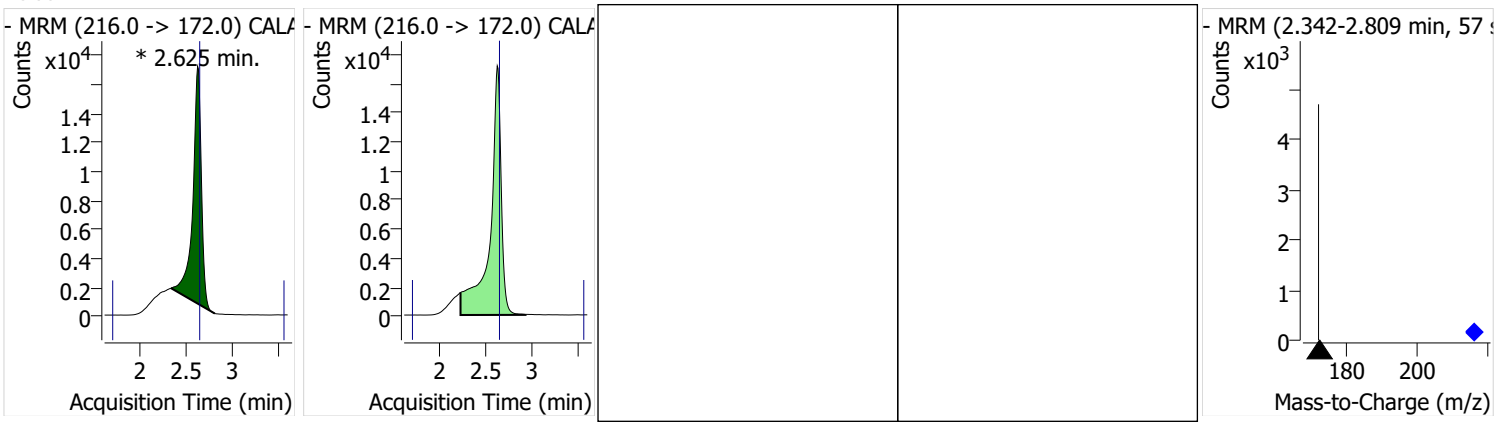
13C2-PFTeDA - ISTD



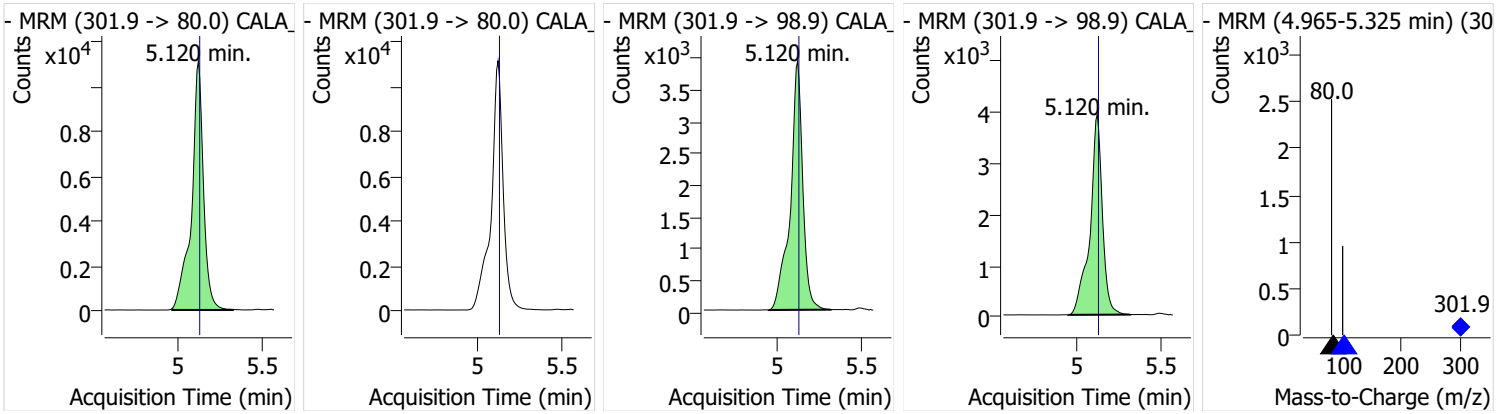
13C3-HFPODA - ISTD



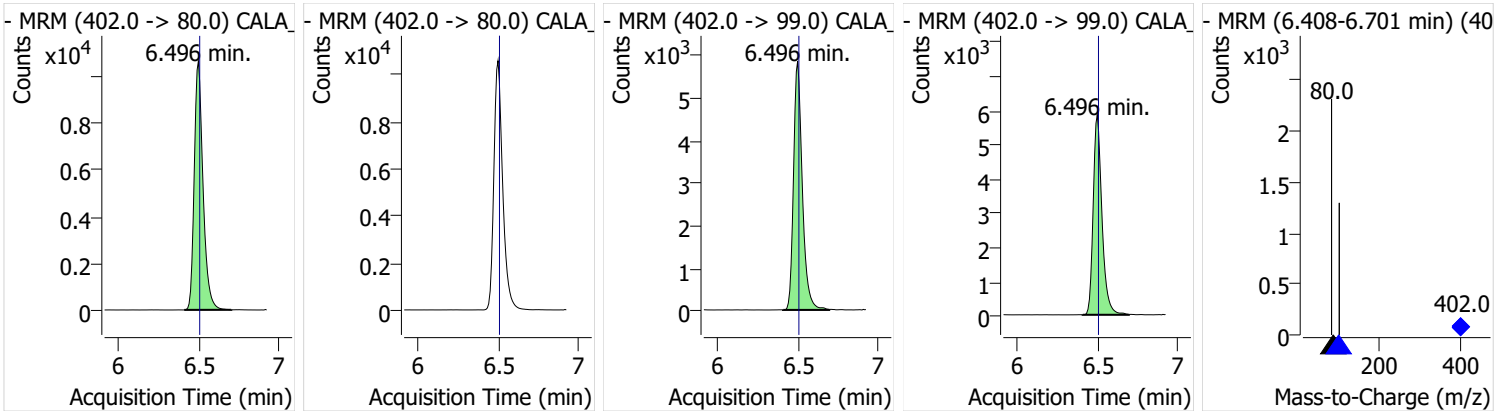
13C3-PFBA



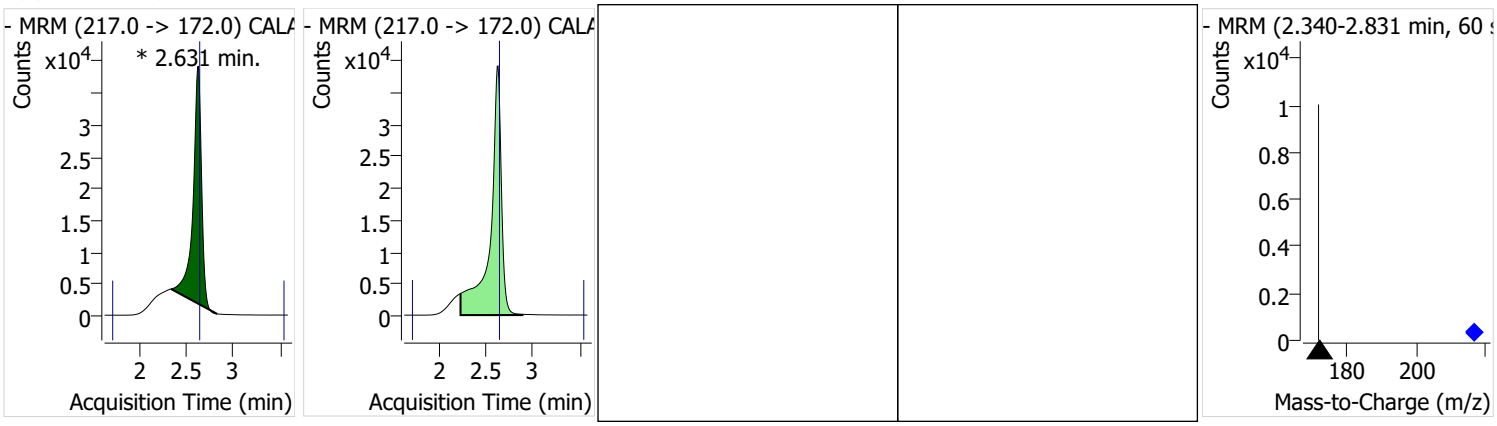
13C3-PFBS - ISTD



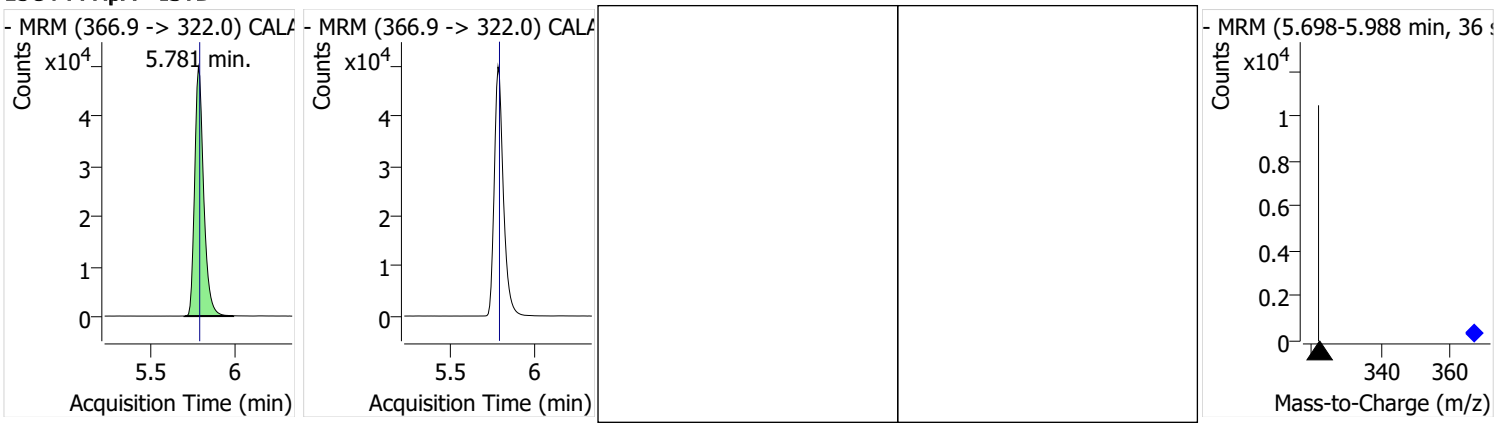
13C3-PFHxS - ISTD



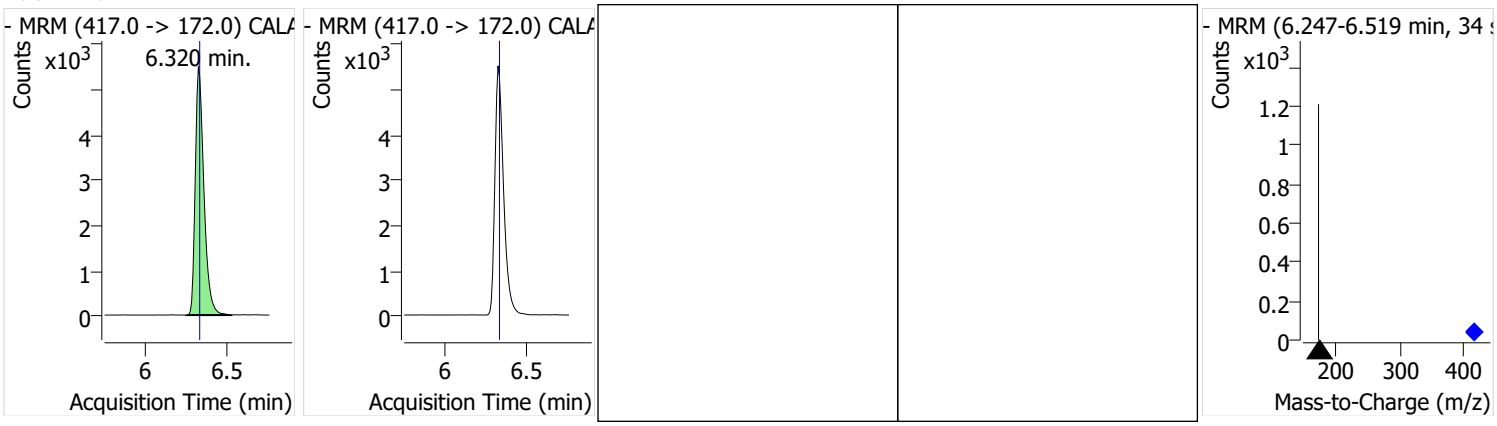
13C4-PFBA - ISTD



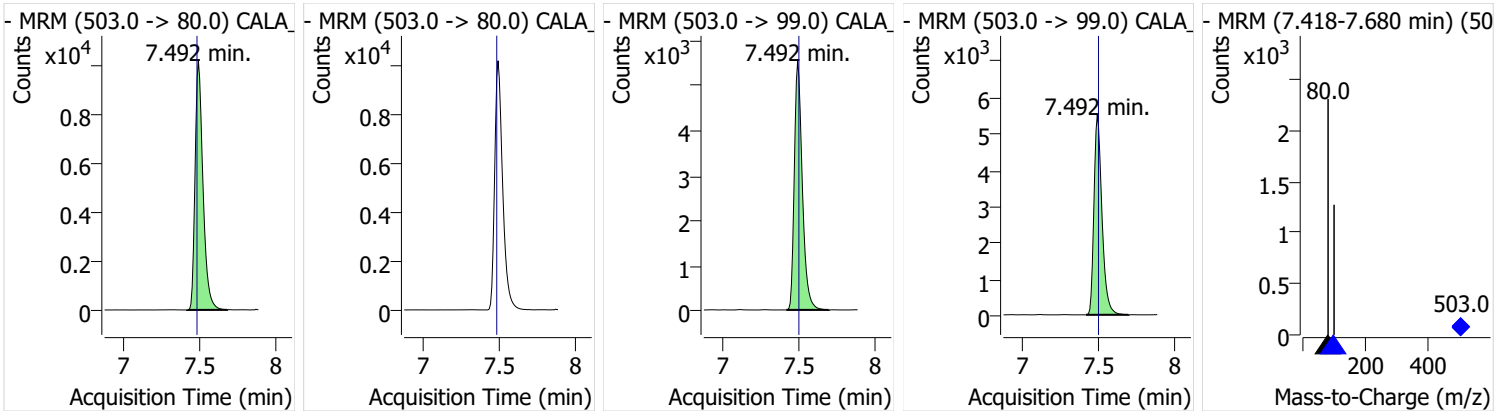
13C4-PFHpA - ISTD



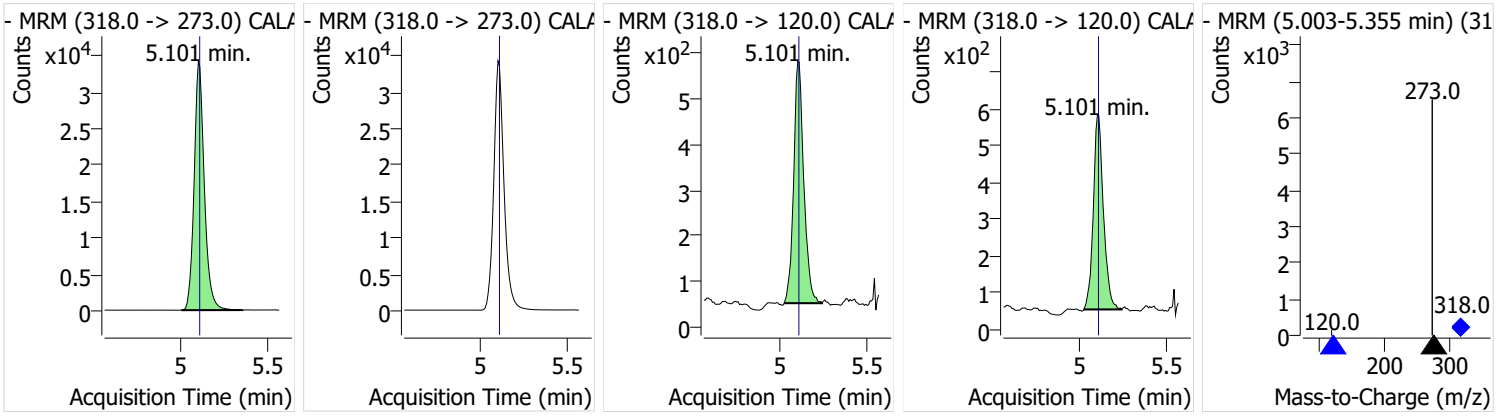
13C4-PFOA



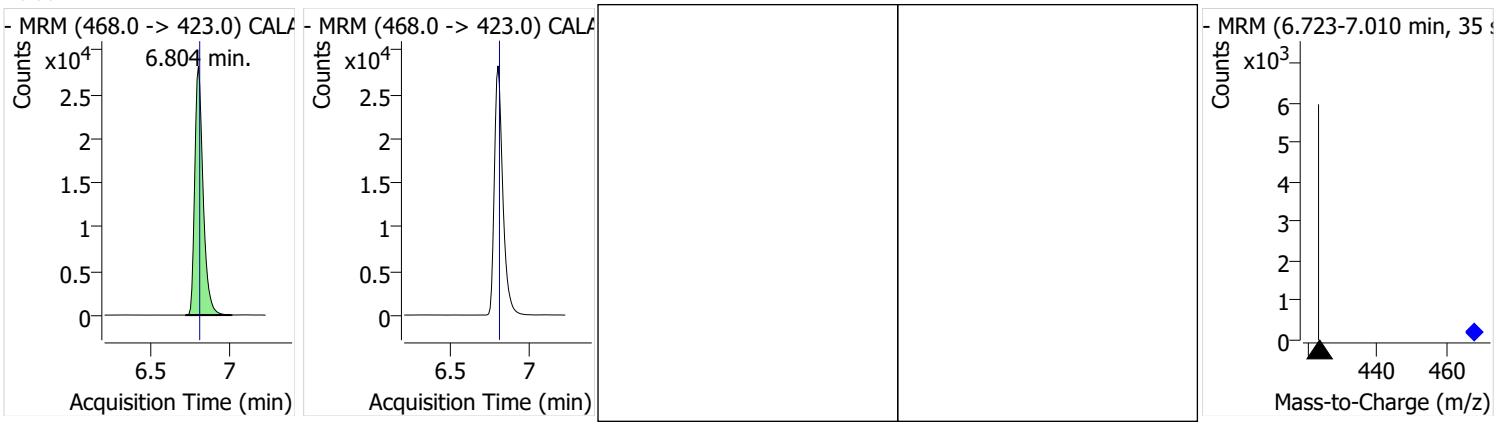
13C4-PFOS



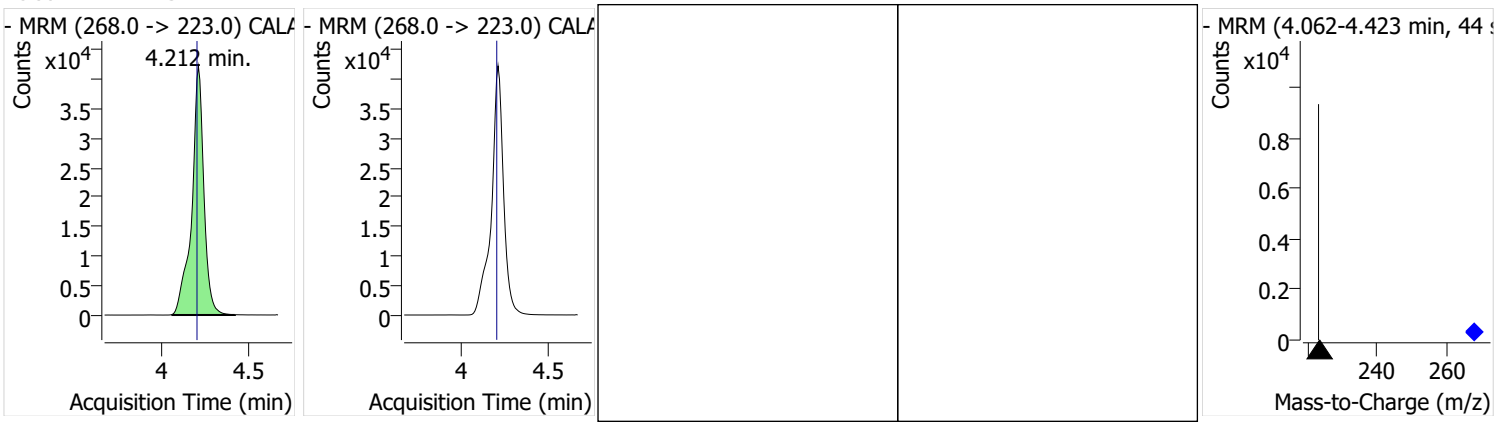
13C5-PFHxA - ISTD



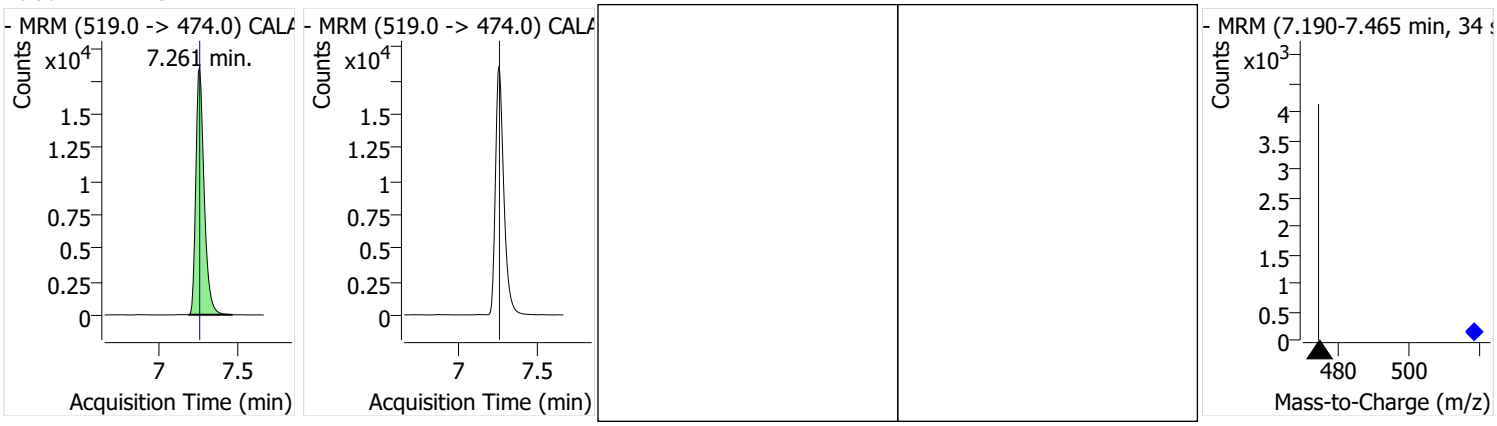
13C5-PFNA



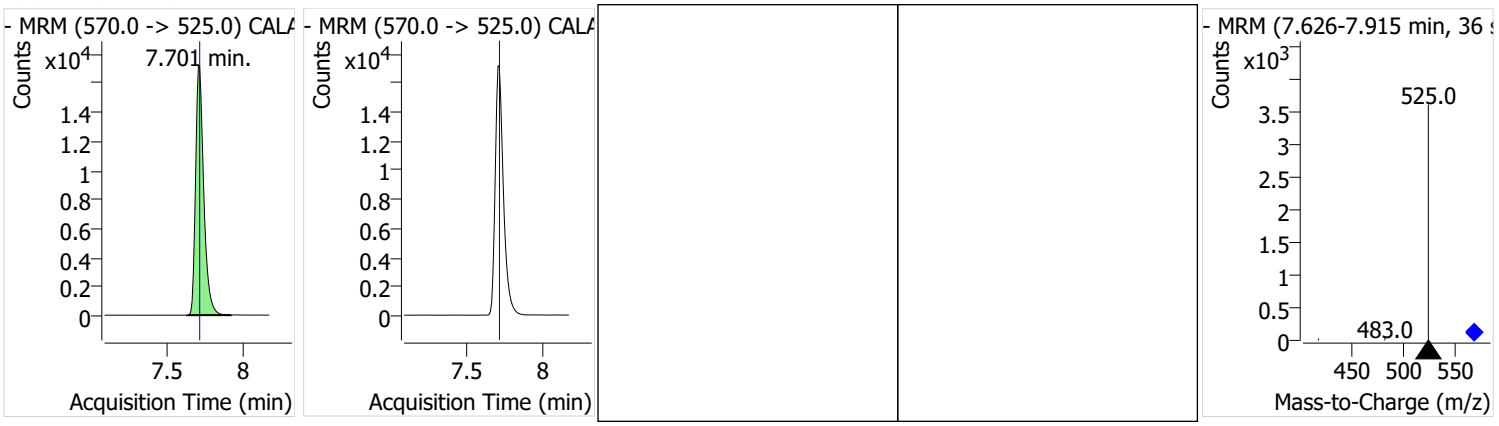
13C5-PFPeA - ISTD



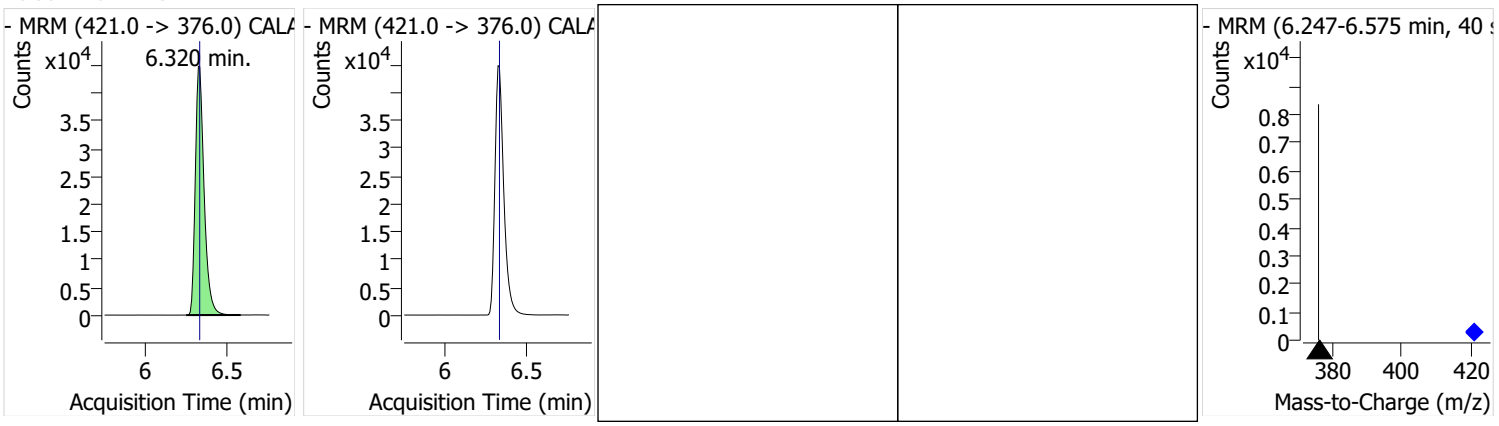
13C6-PFDA - ISTD



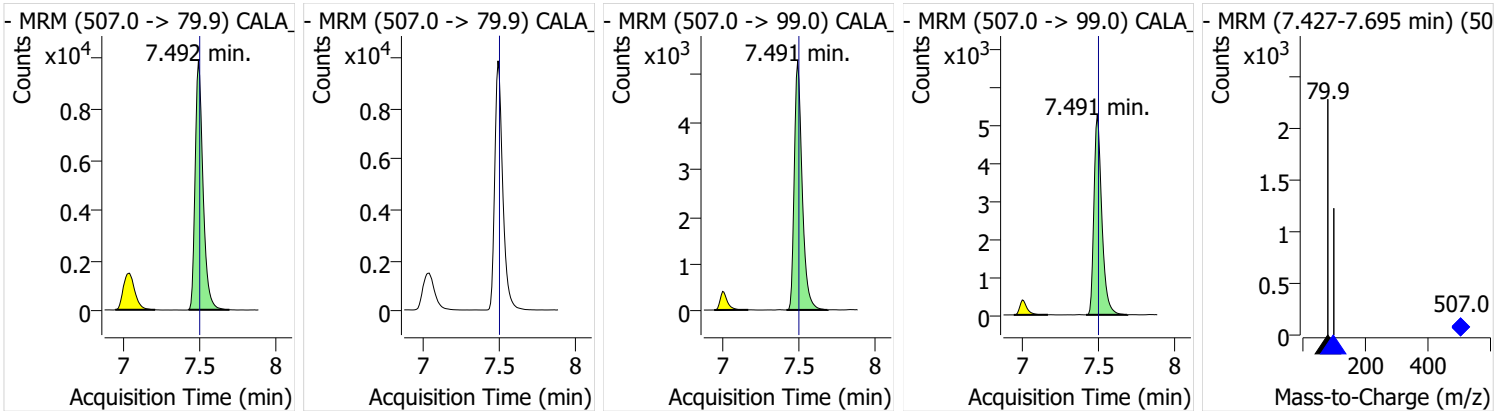
13C7-PFUnA - ISTD



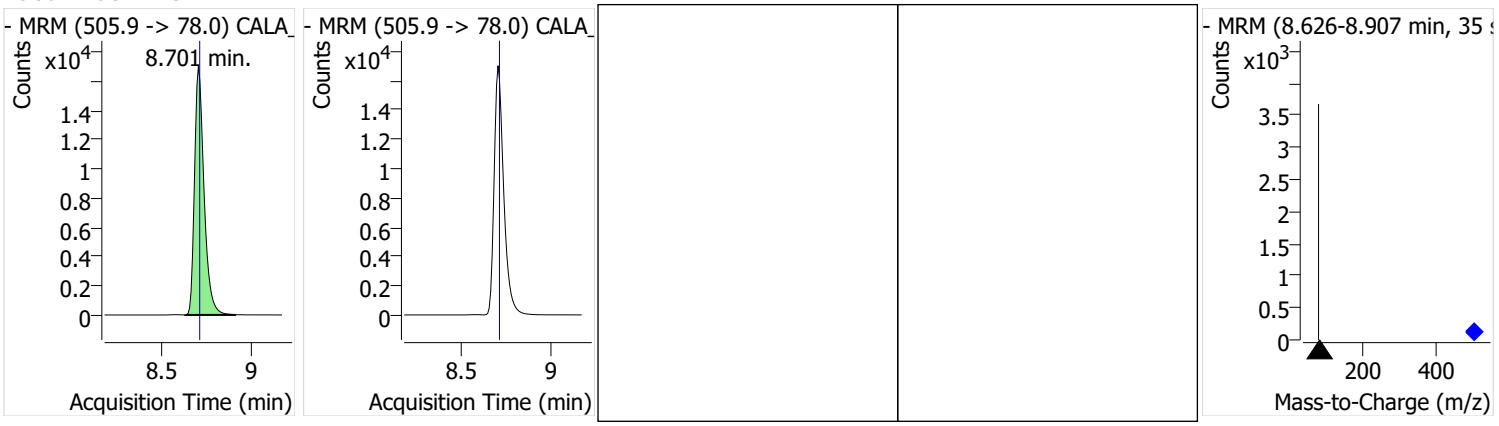
13C8-PFOA - ISTD



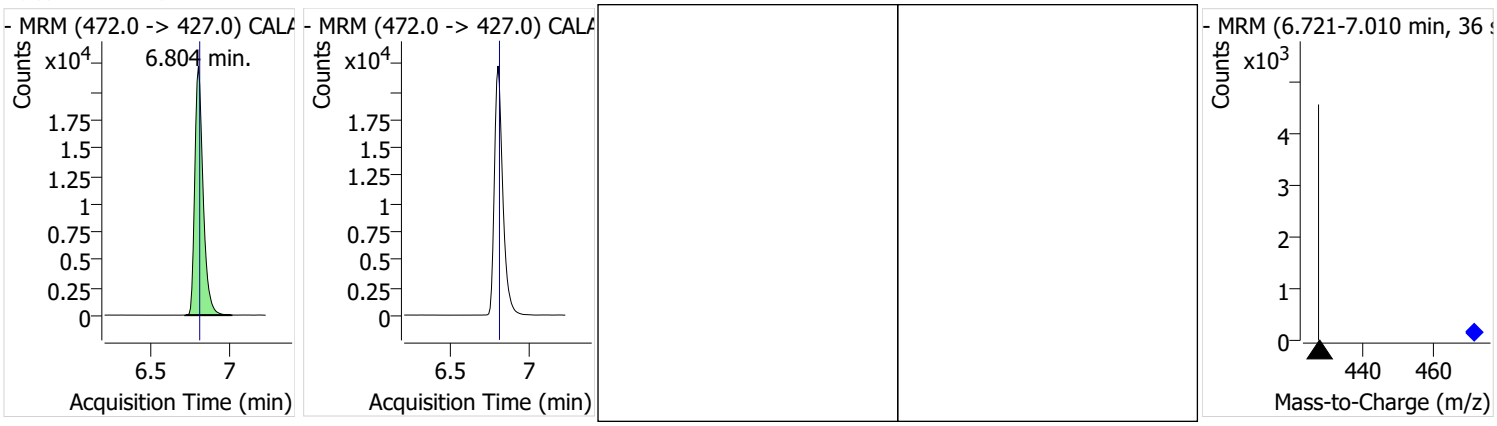
13C8-PFOS - ISTD



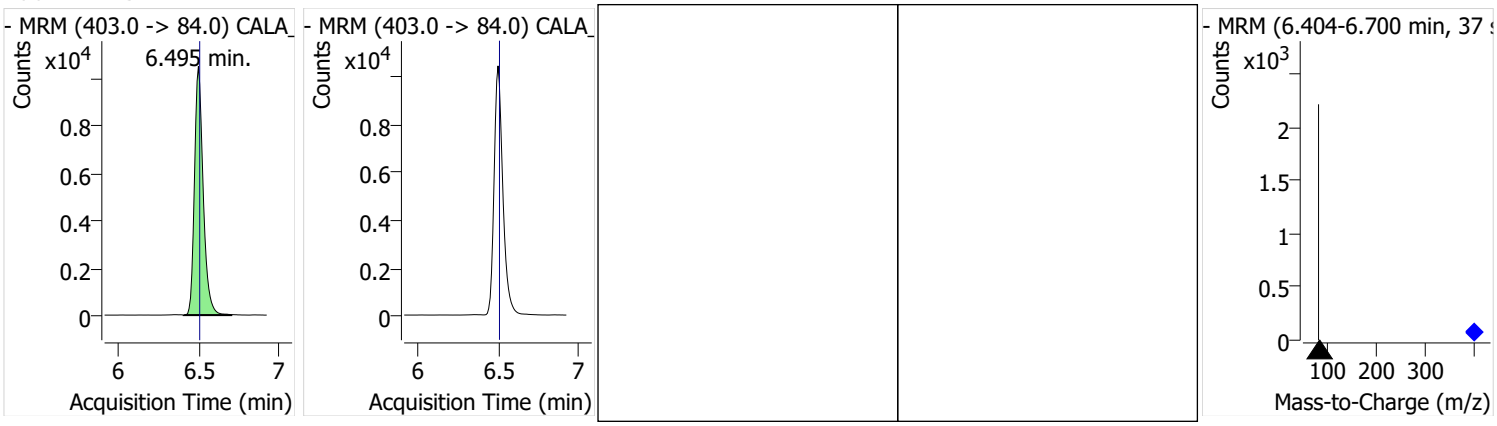
13C8-PFOSA - ISTD



13C9-PFNA - ISTD



18O2-PFHxS



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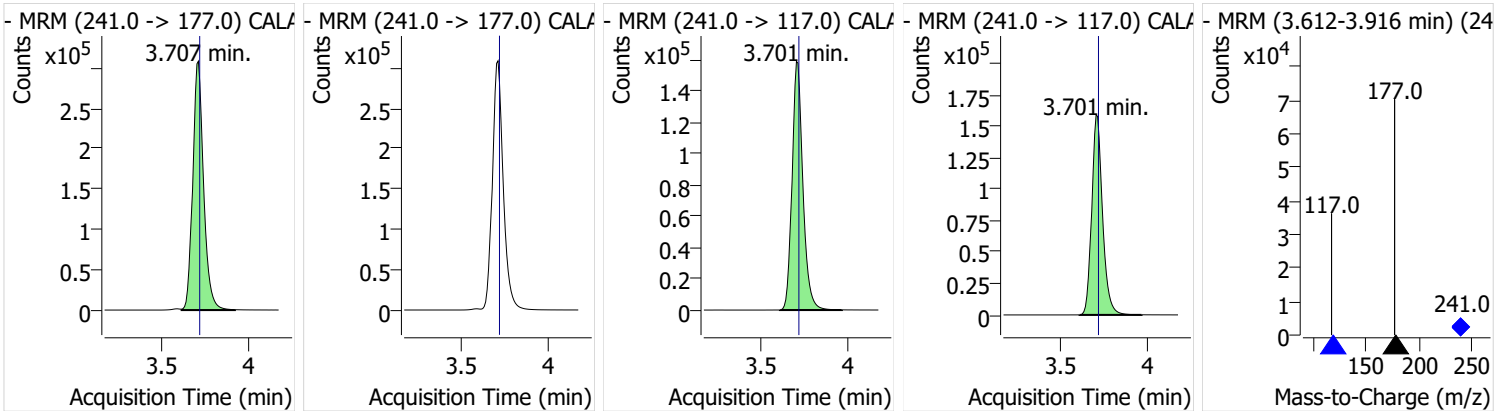

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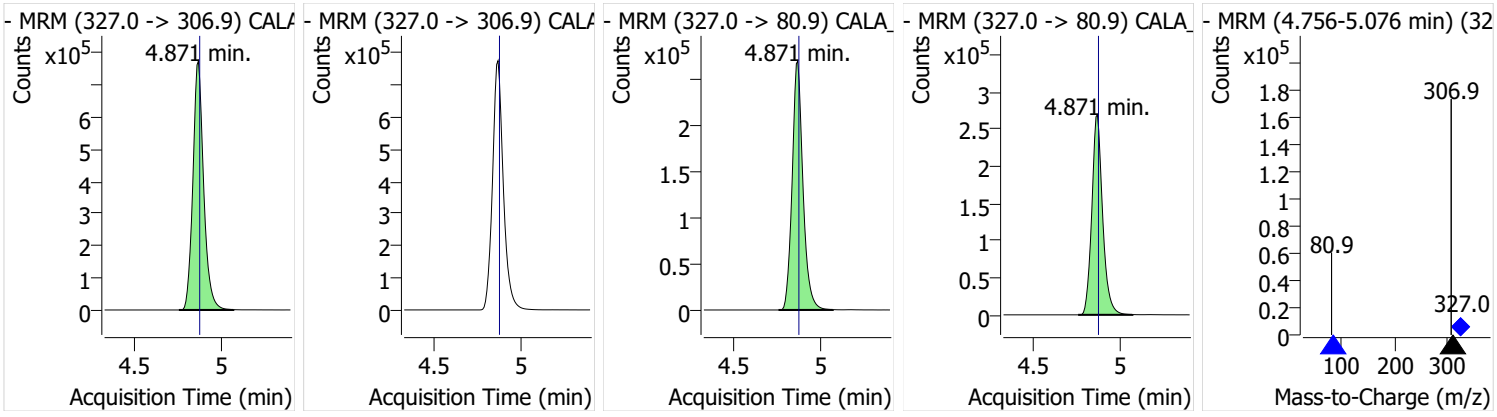

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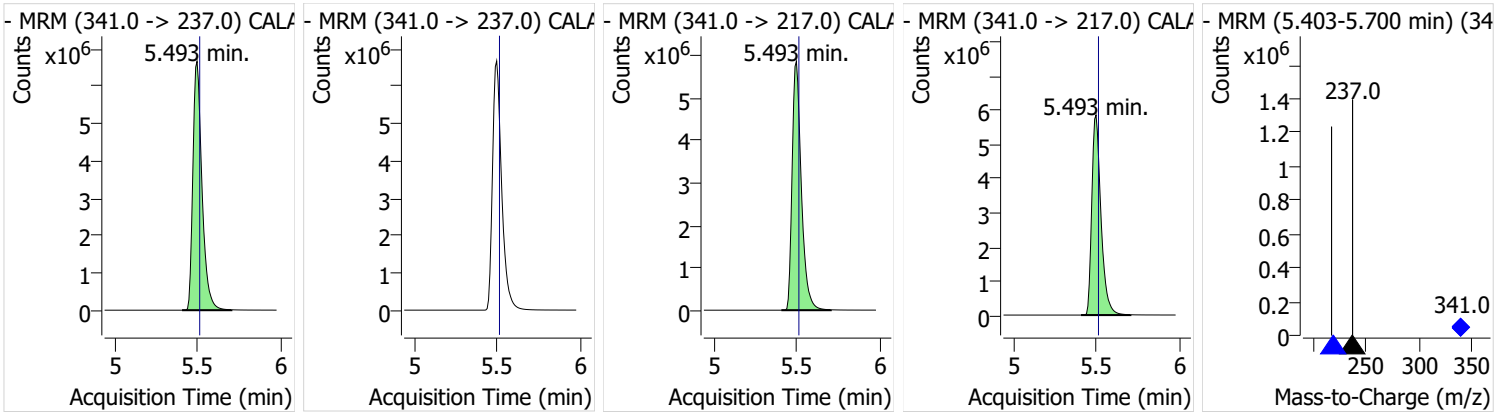

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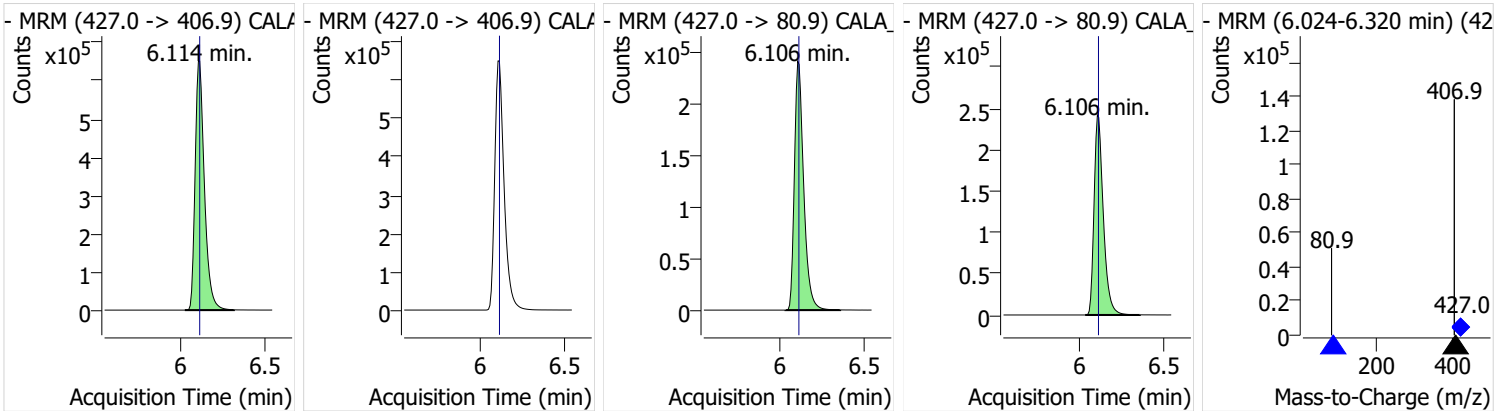

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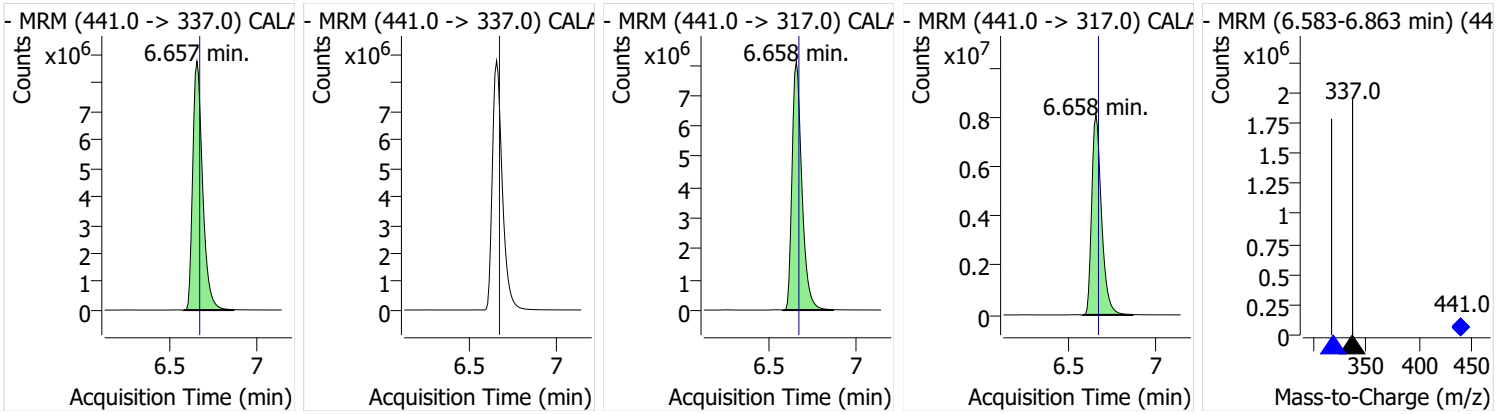

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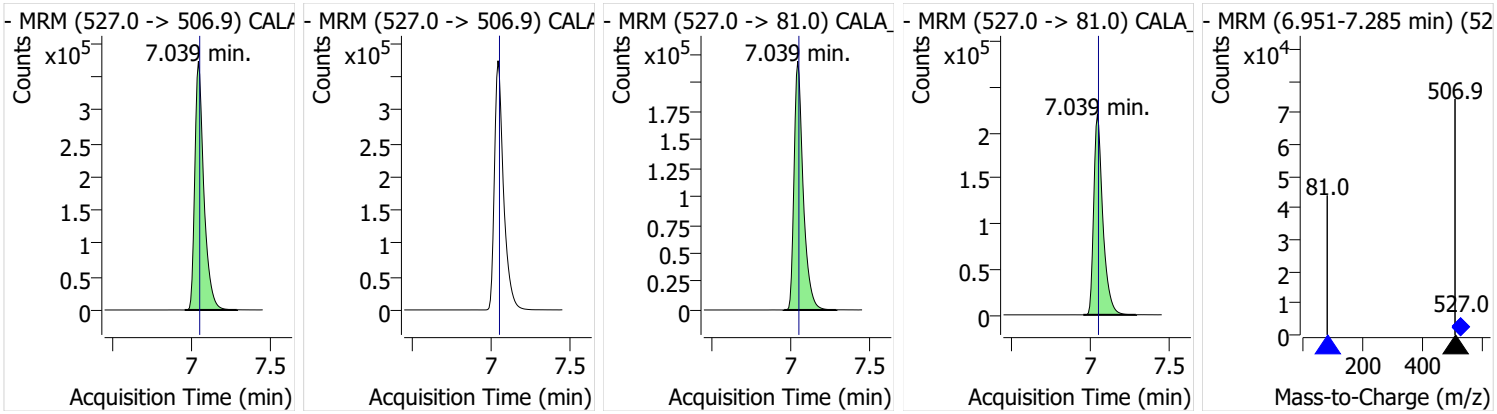
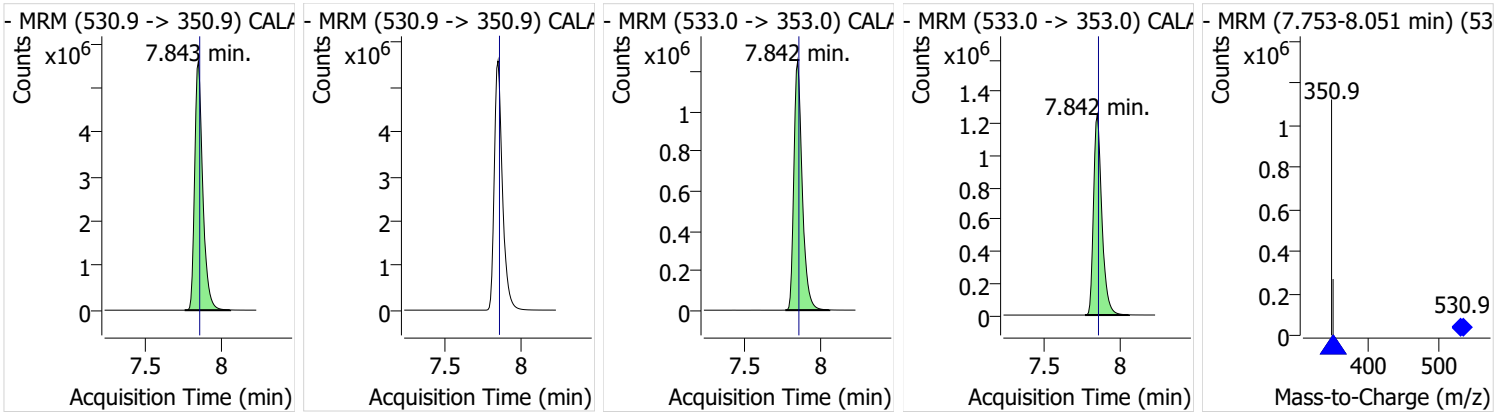


9Cl-PF3ONS



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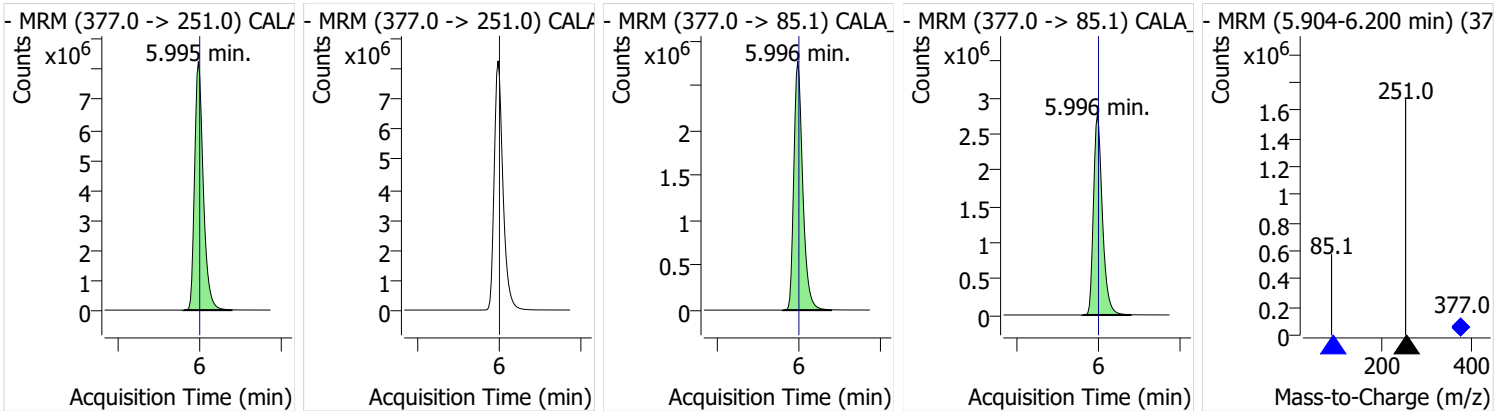
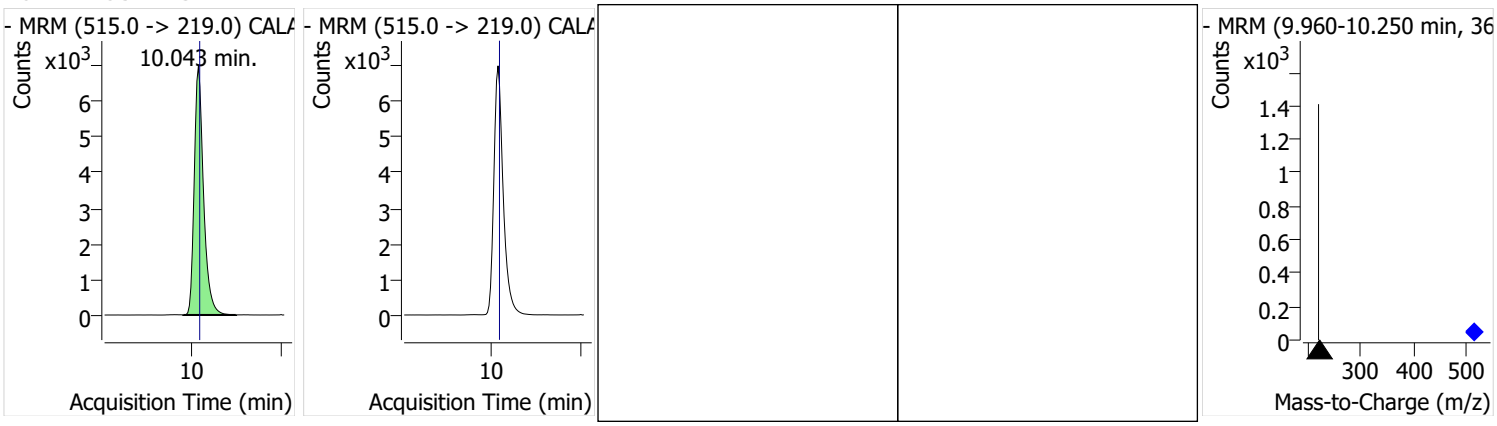
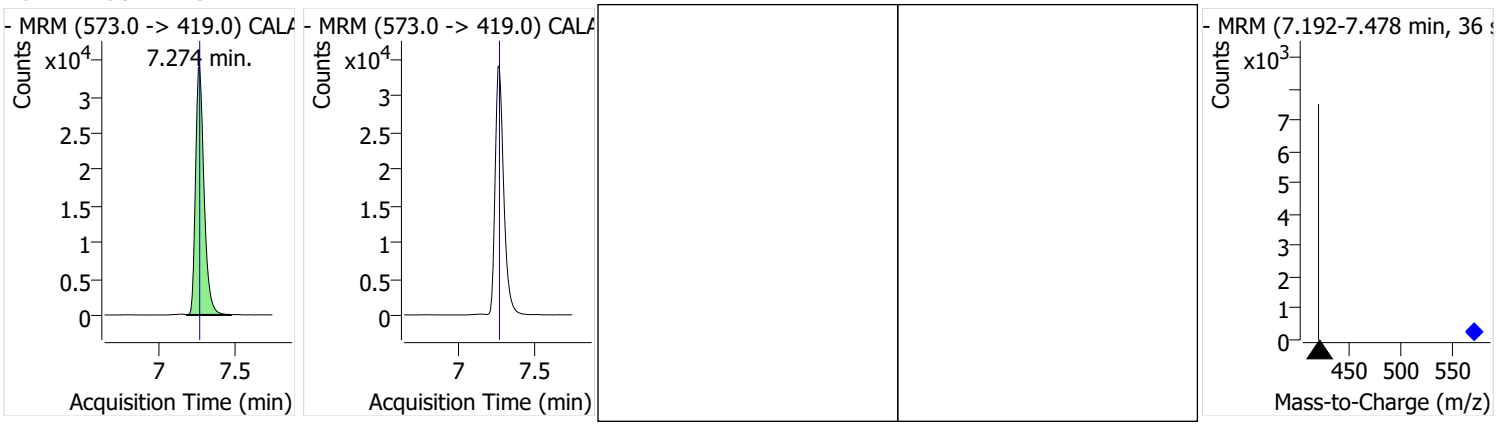


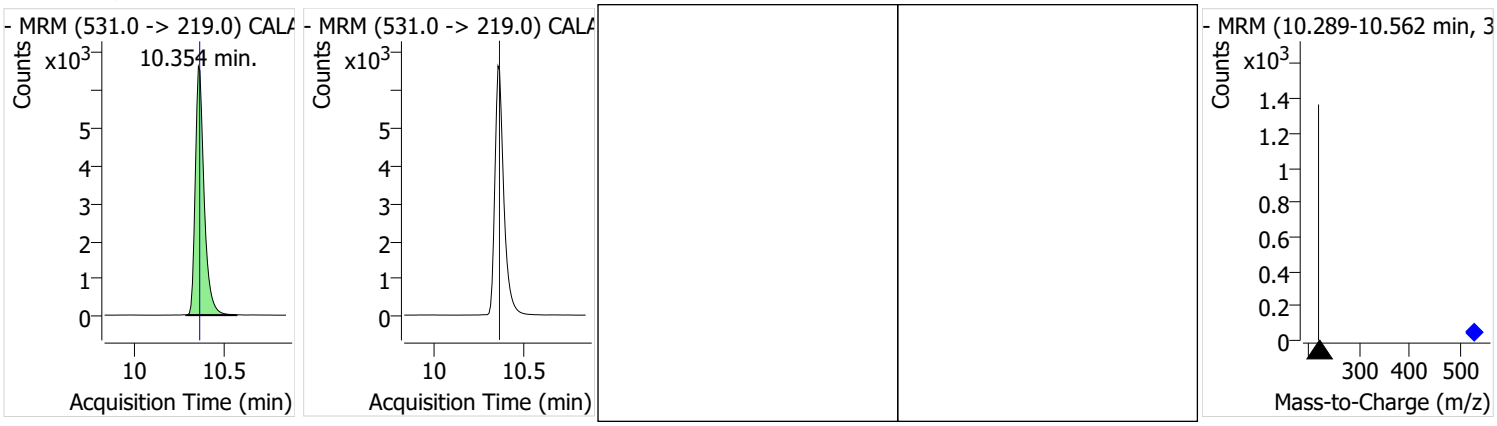
D3-NMeFOSA - ISTD



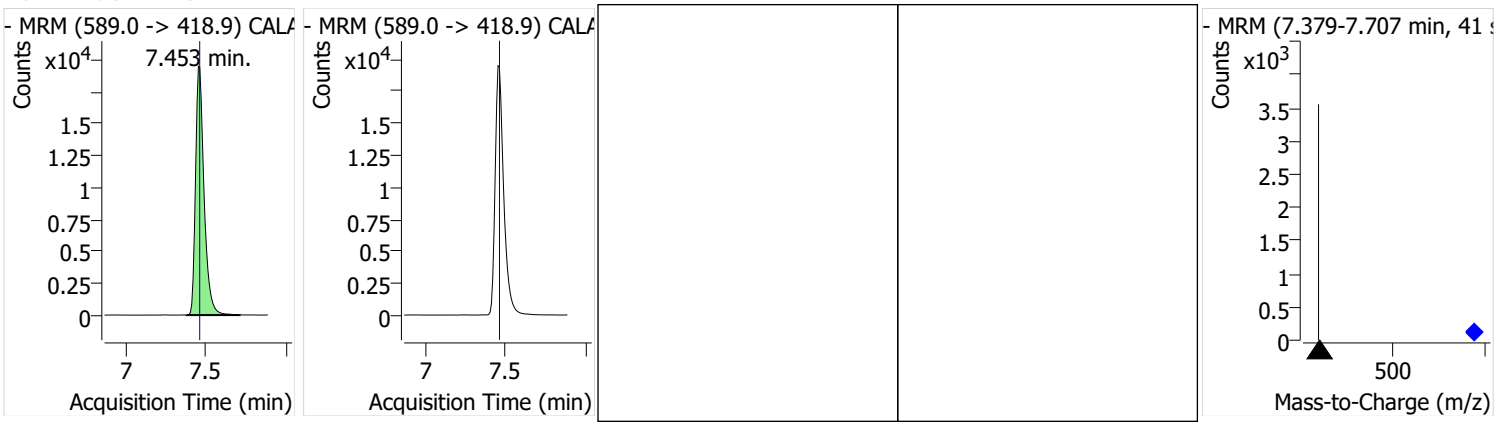
D3-NMeFOSAA - ISTD



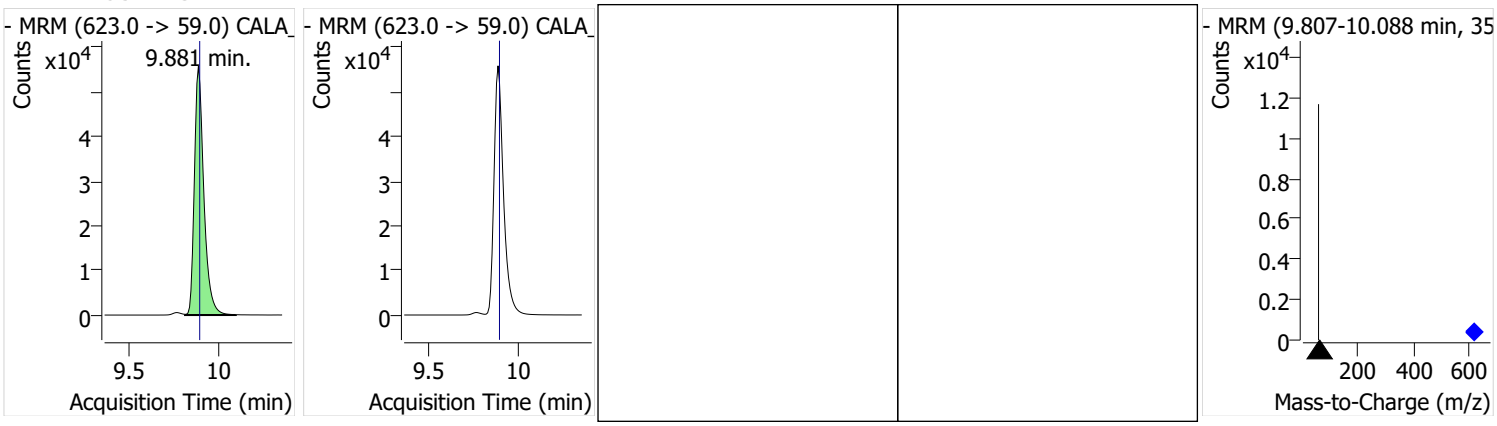
D5-NEtFOSA - ISTD



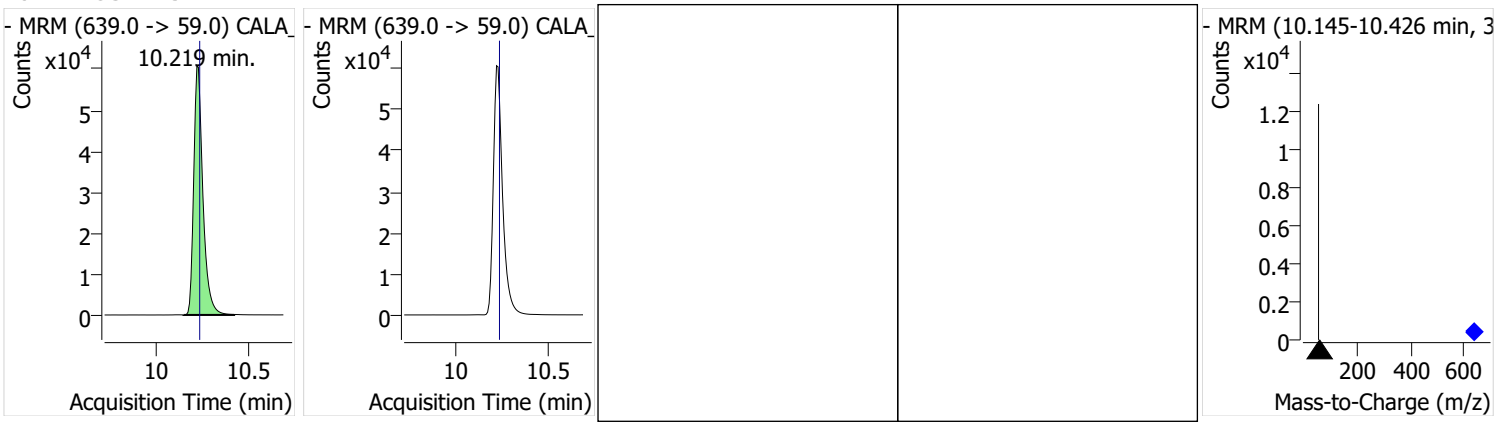
D5-NEtFOSAA - ISTD



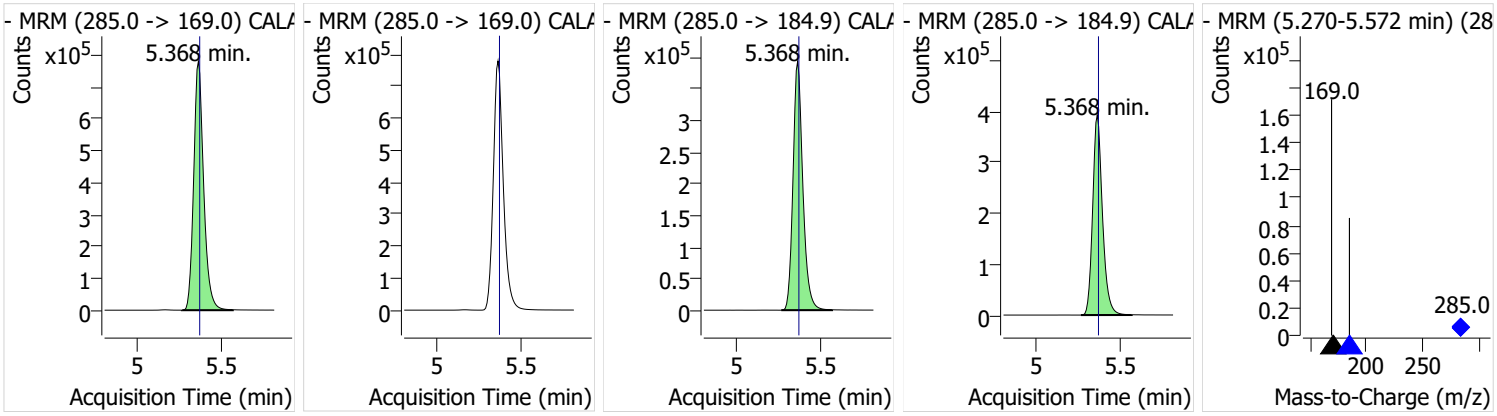
D7-NMeFOSE - ISTD



D9-NEtFOSE - ISTD



HFPO-DA



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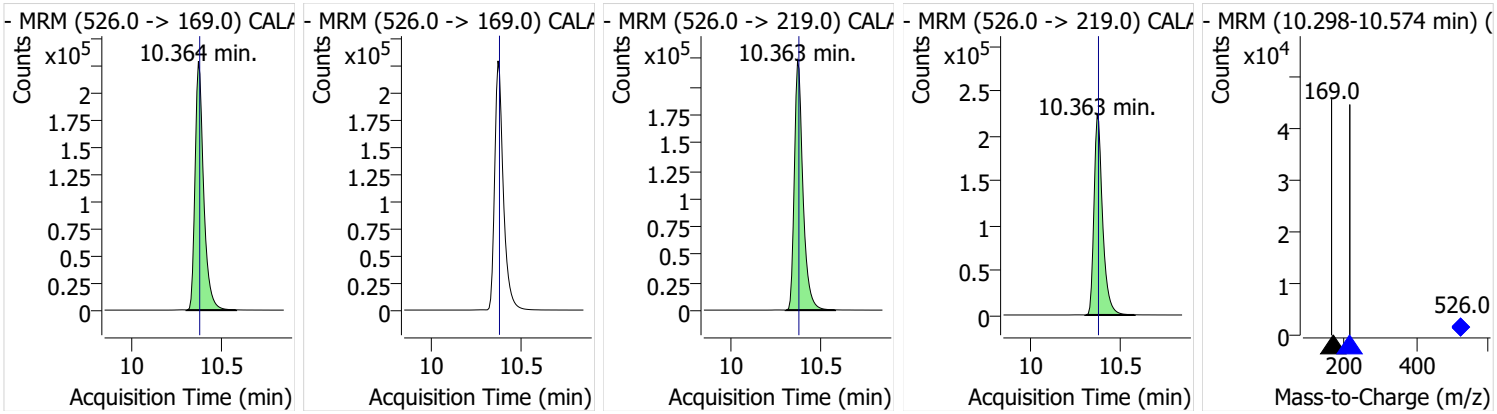

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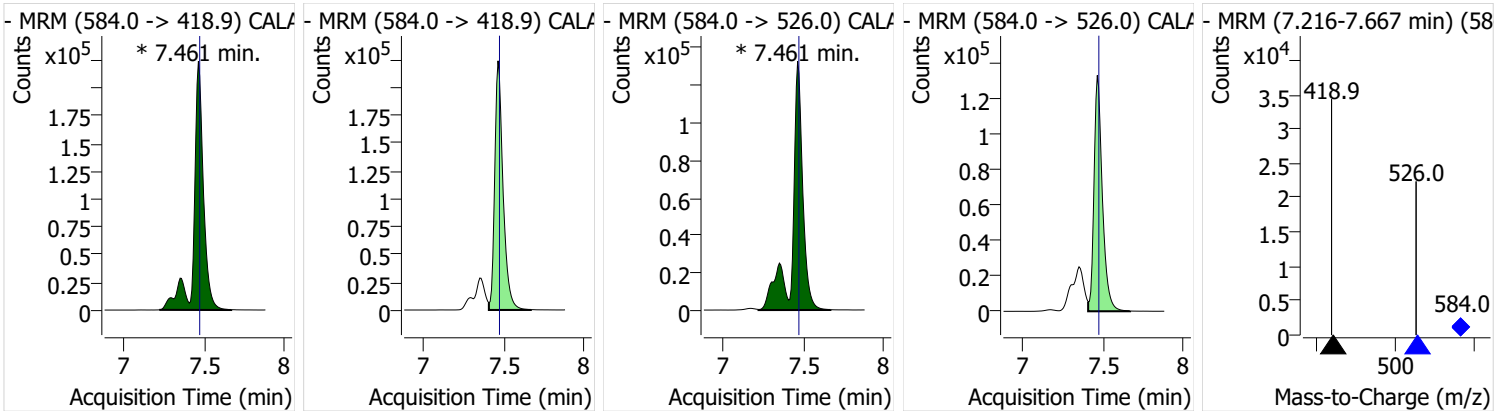

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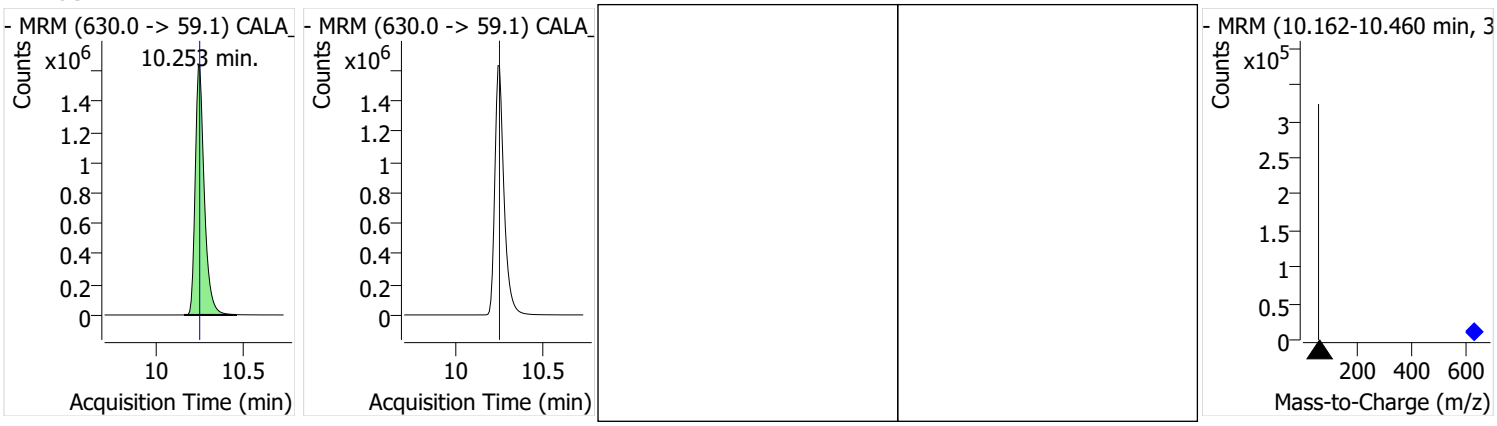

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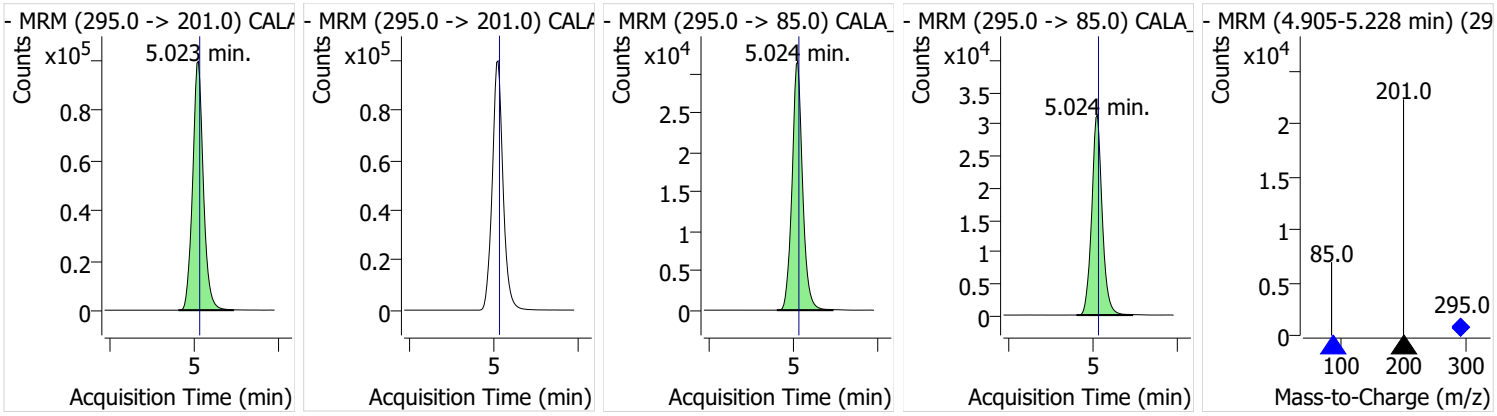

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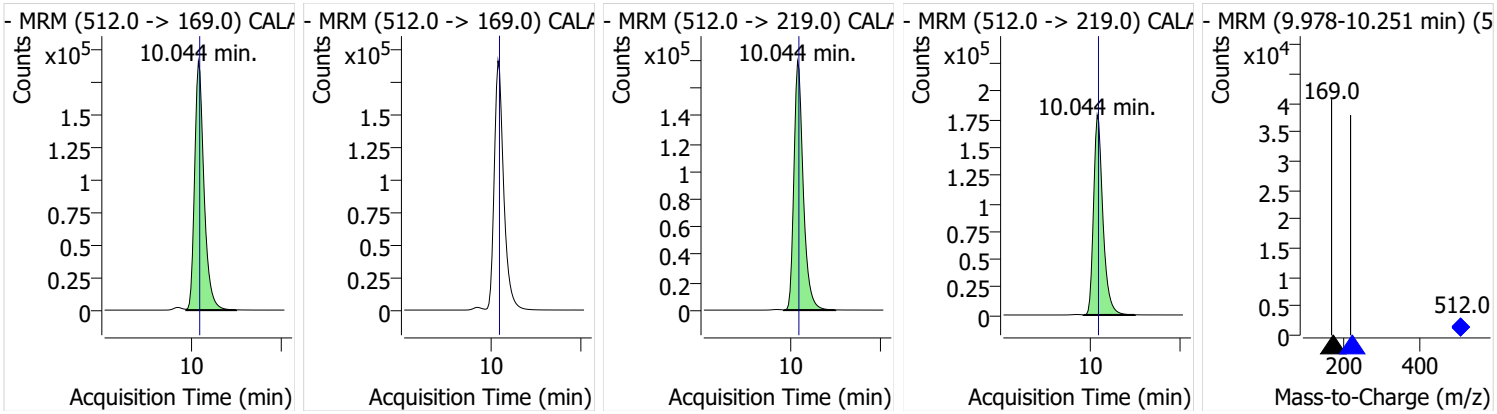

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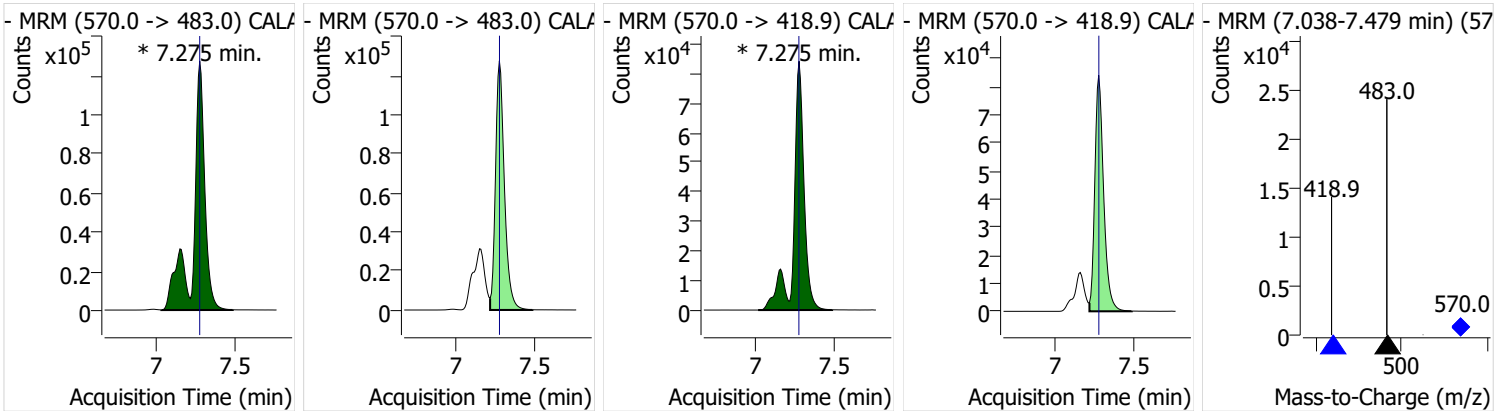

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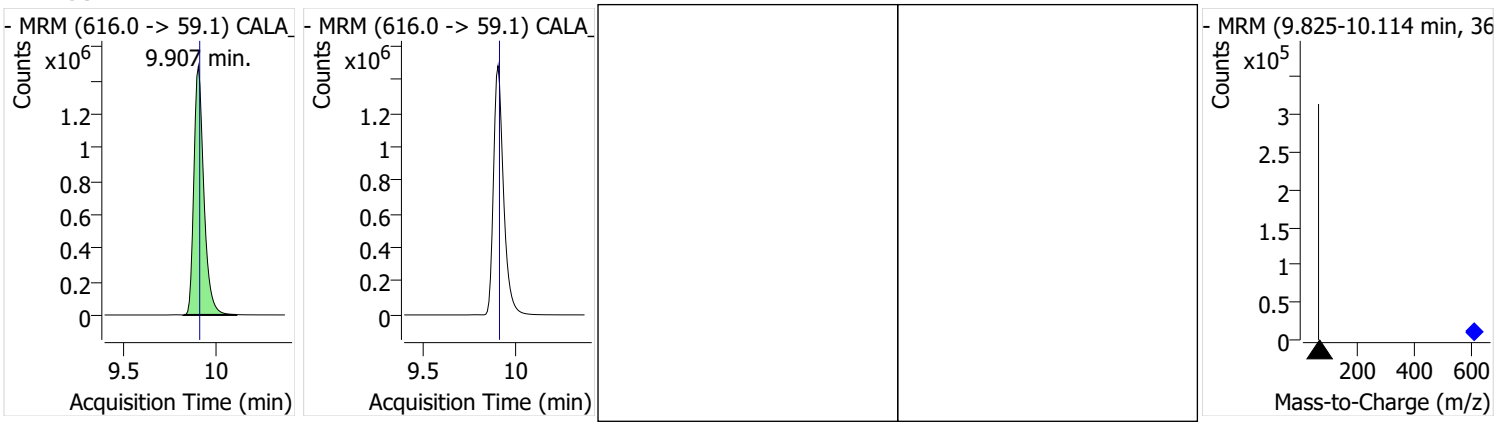

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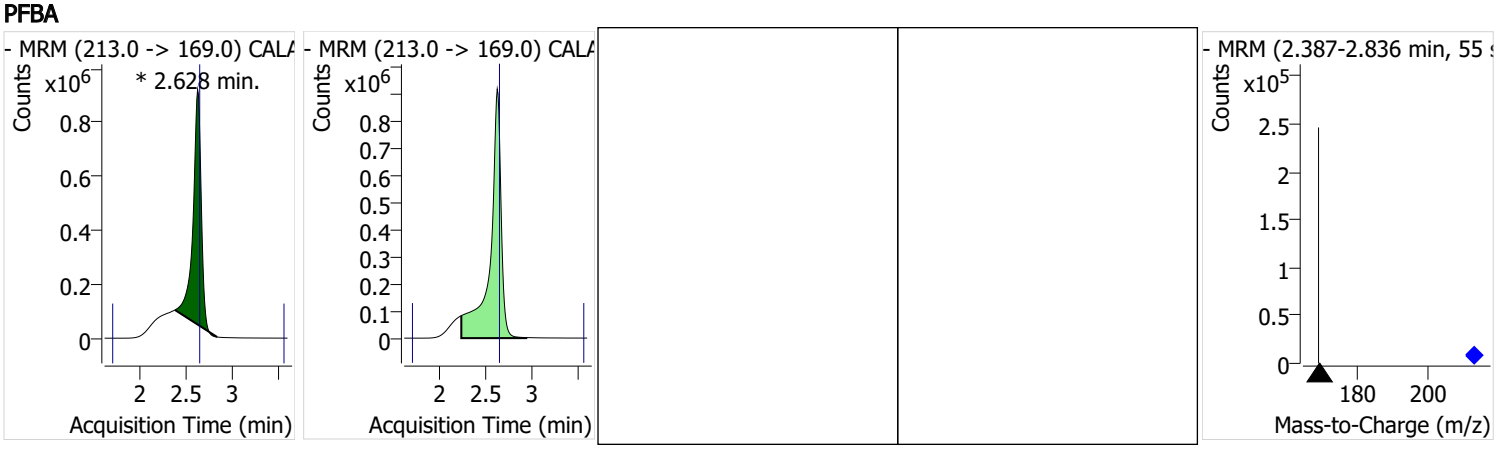

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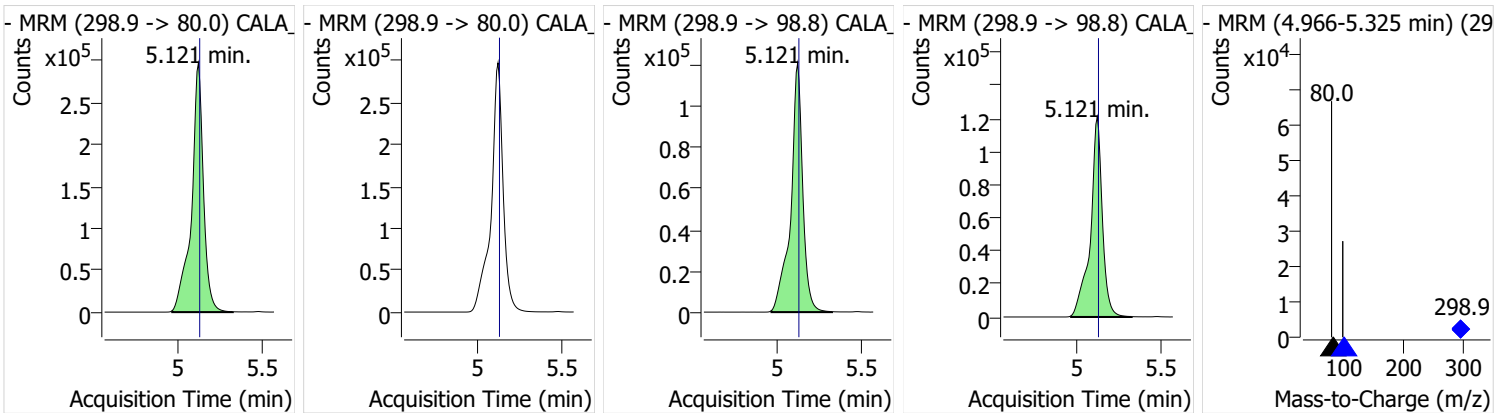

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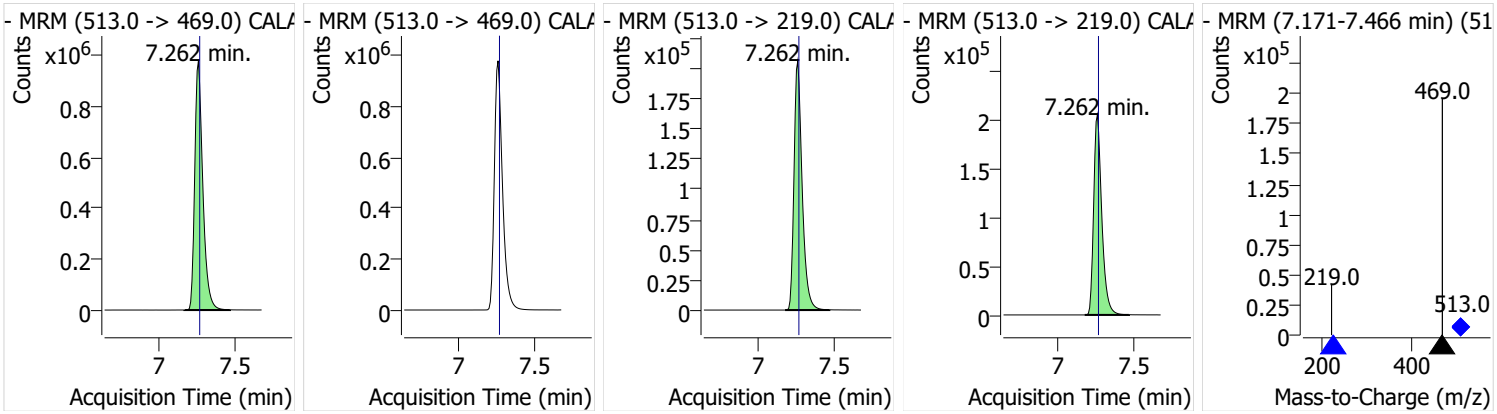

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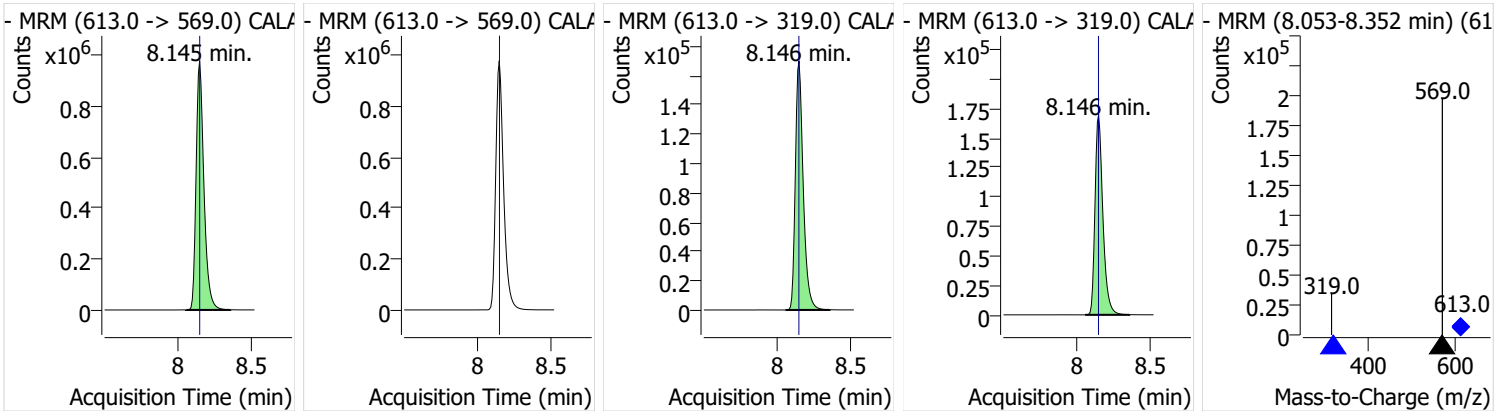
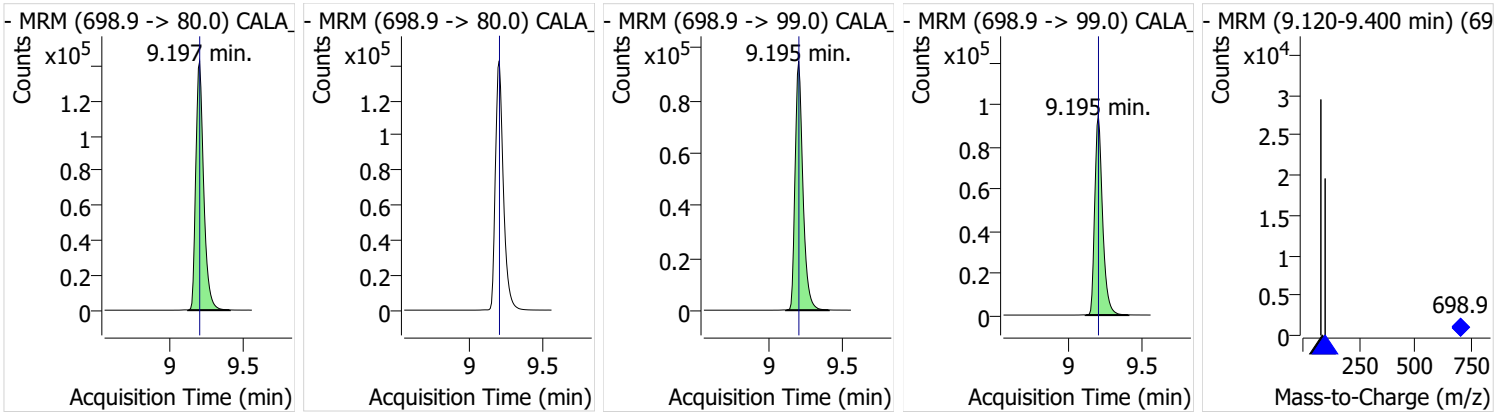


PFDoS



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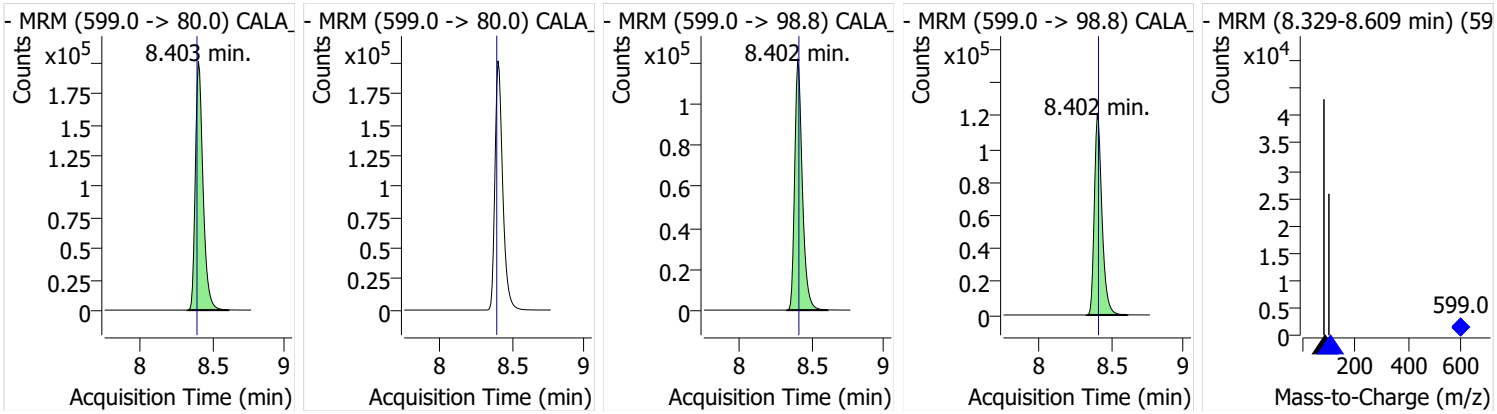

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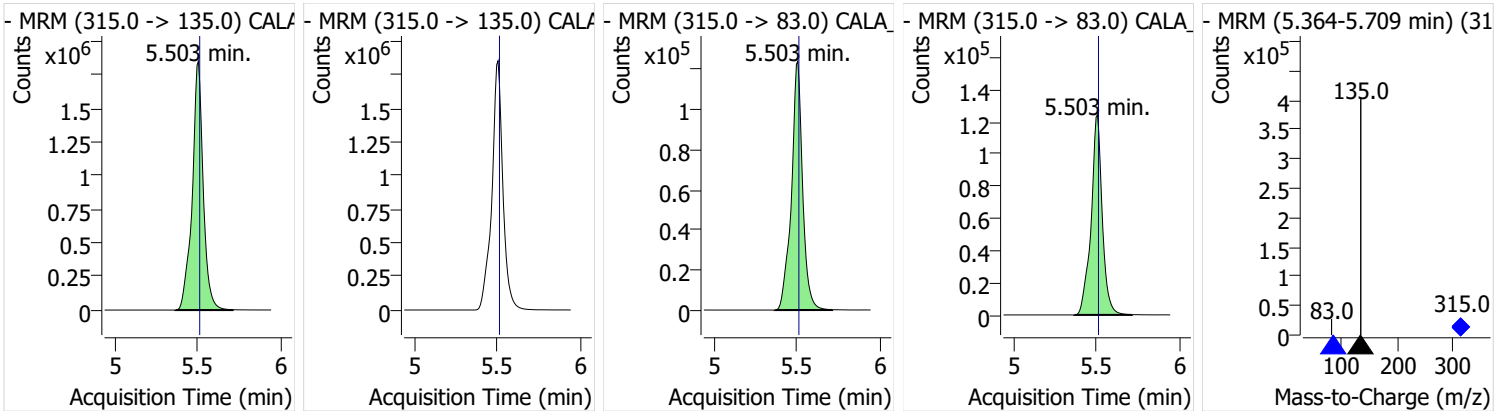
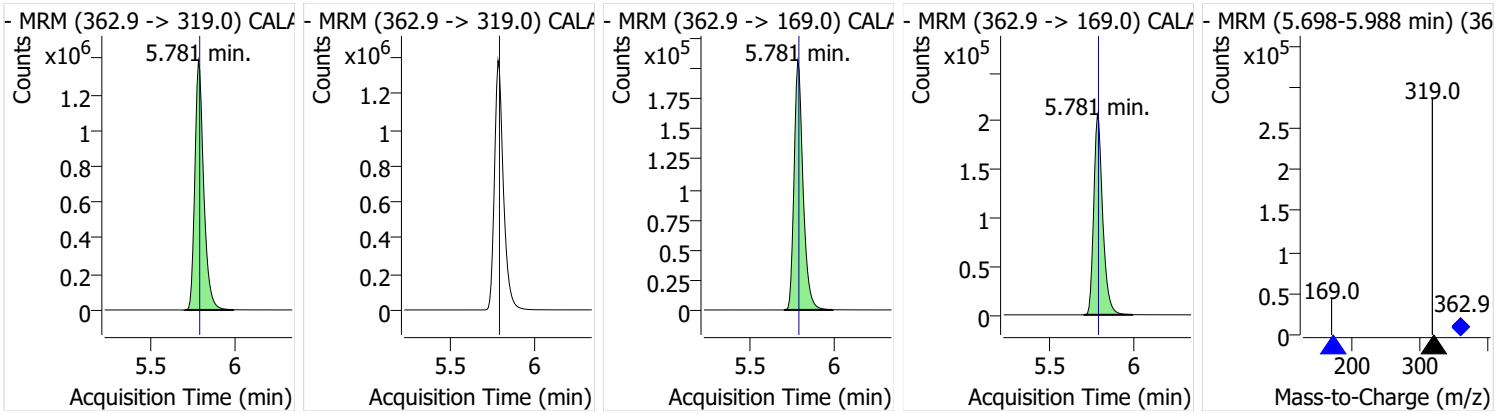


PFHpA



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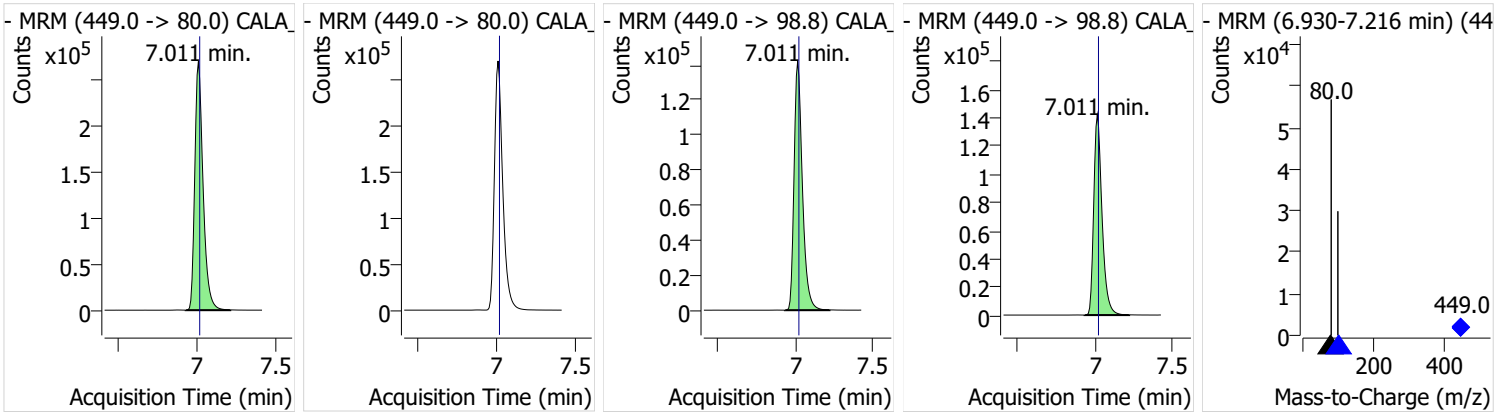

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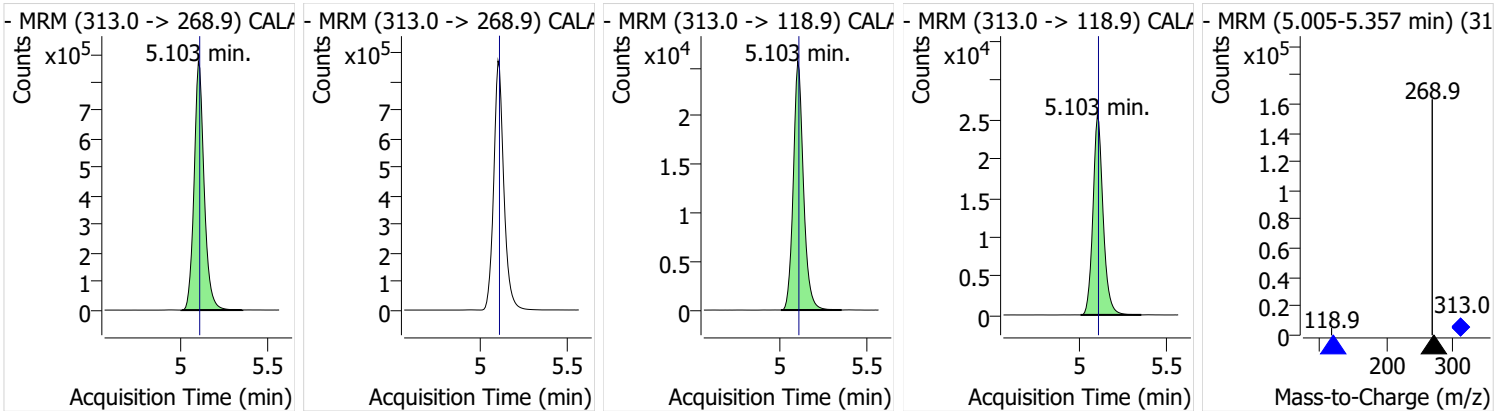

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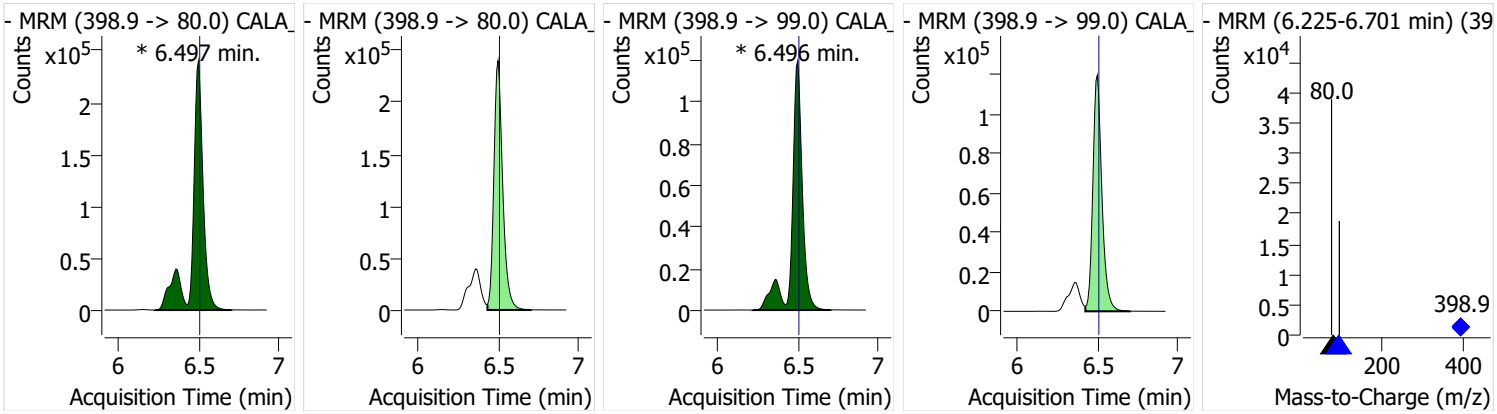

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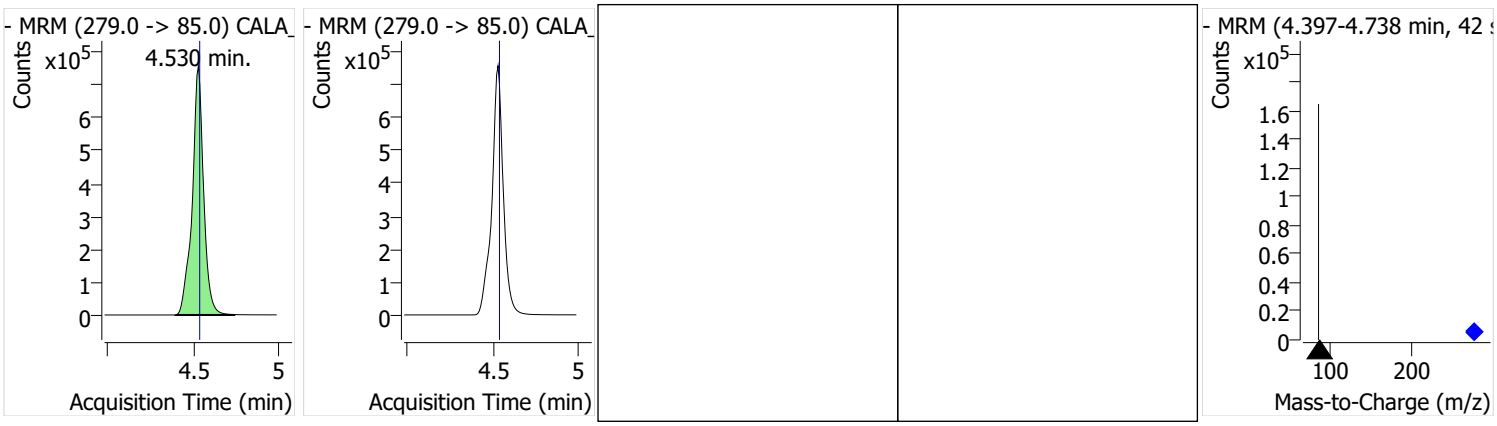

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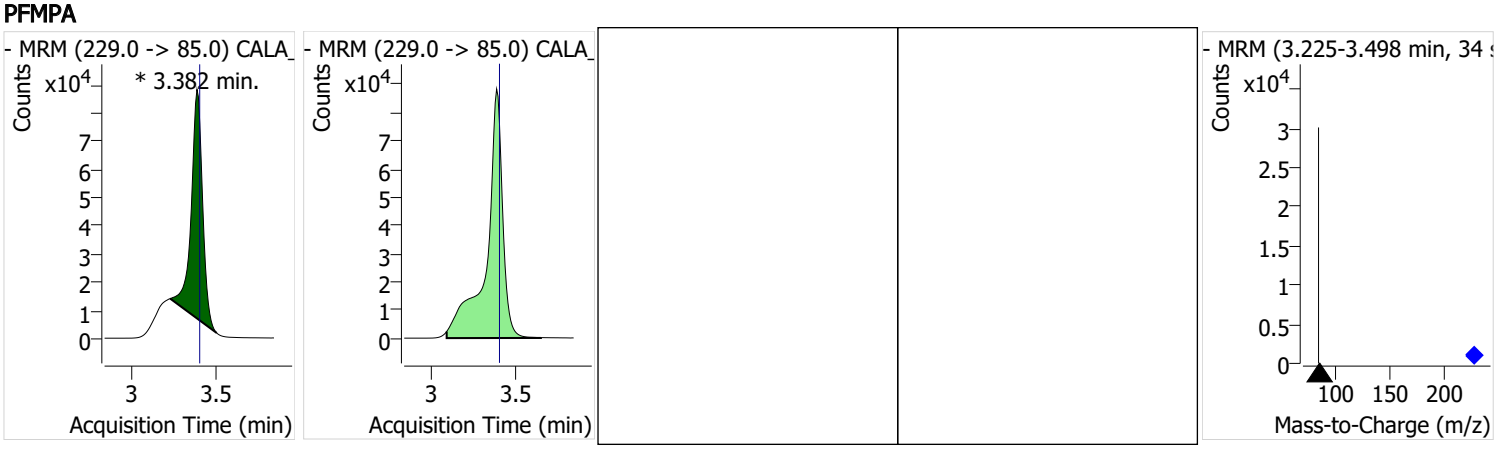

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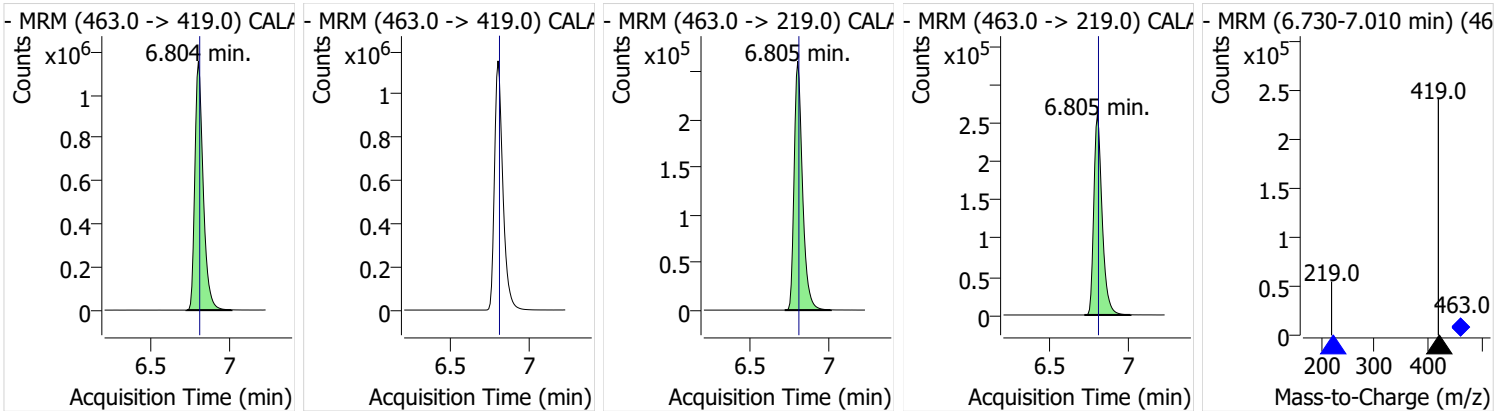

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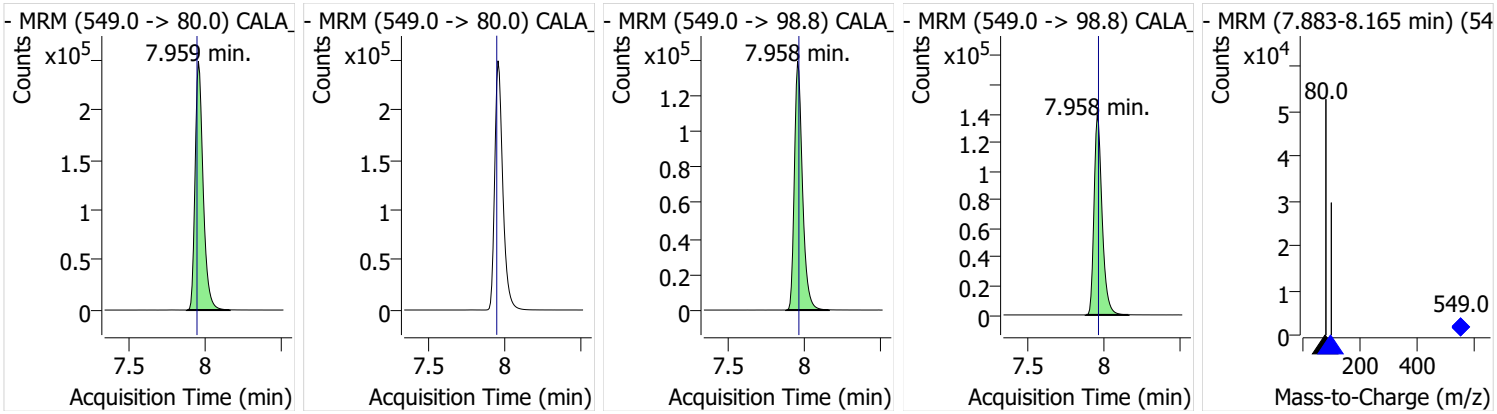
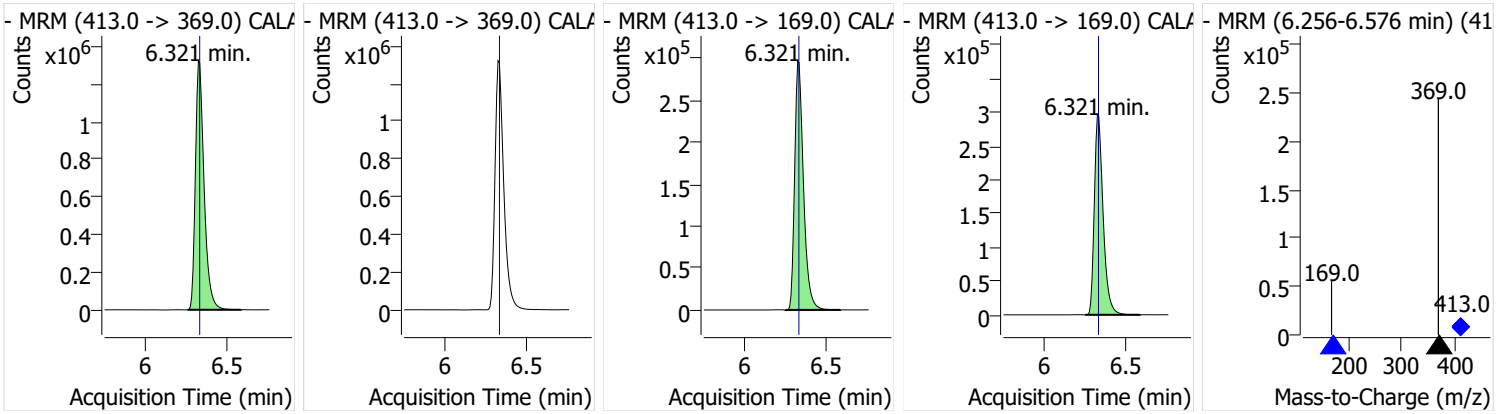
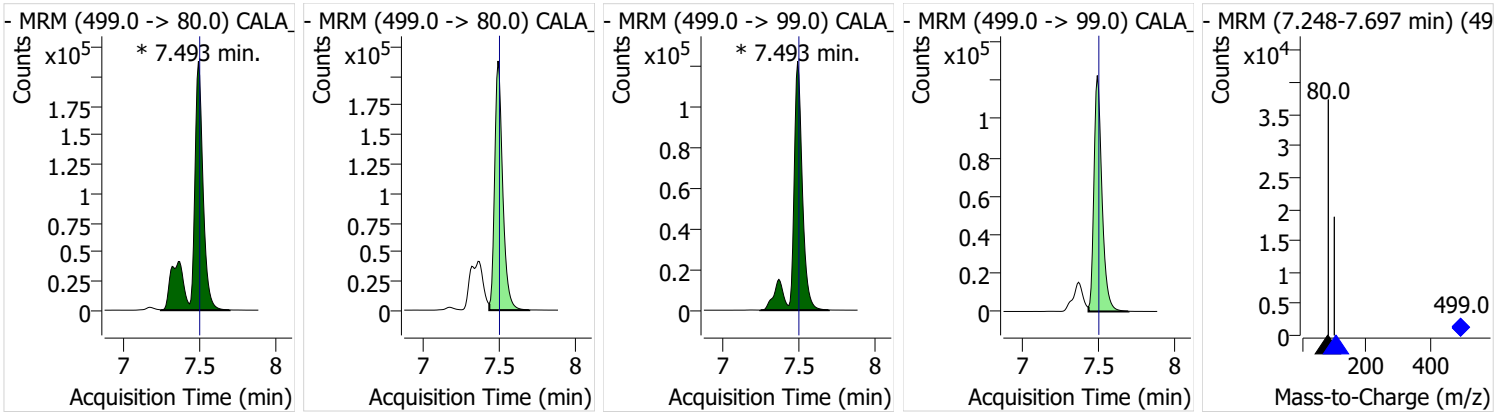


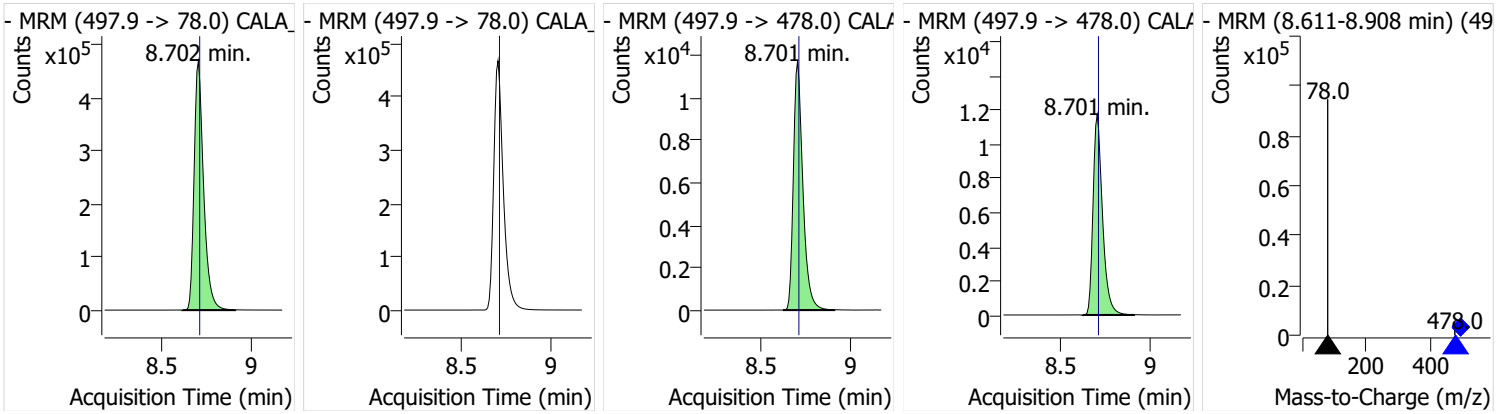
PFOA



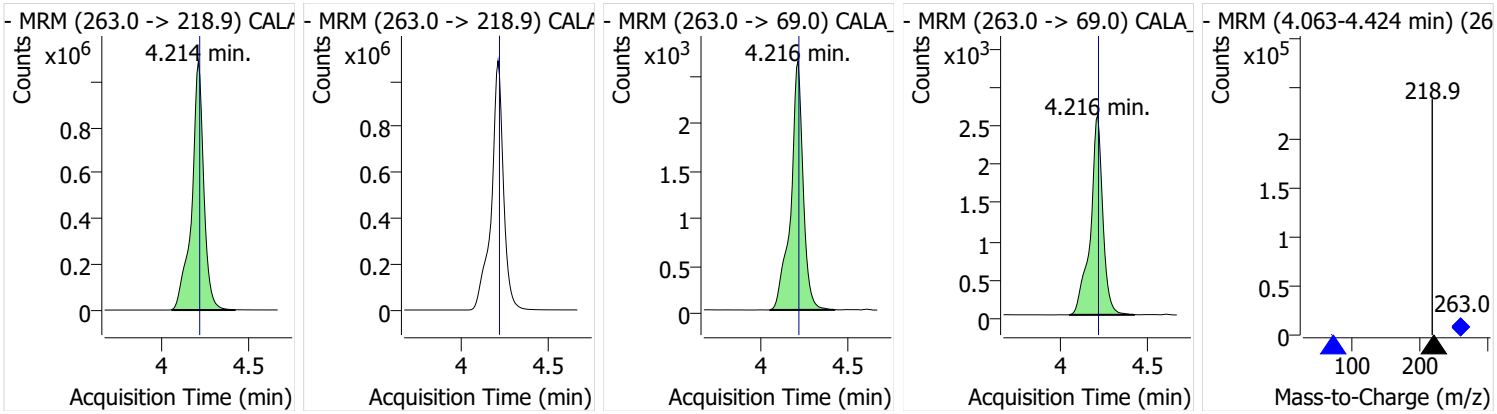
PFOS



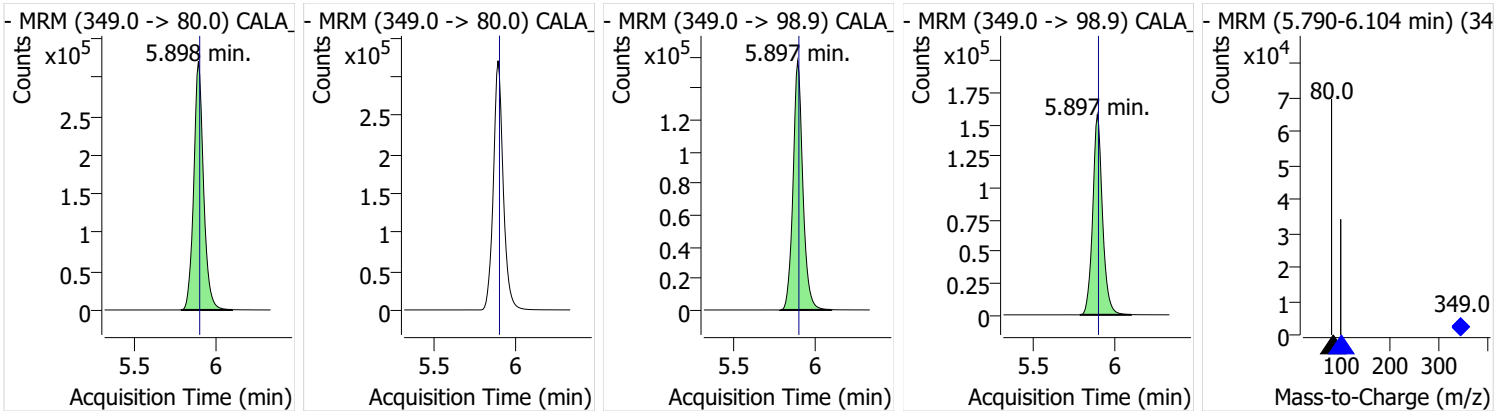
PFOSA



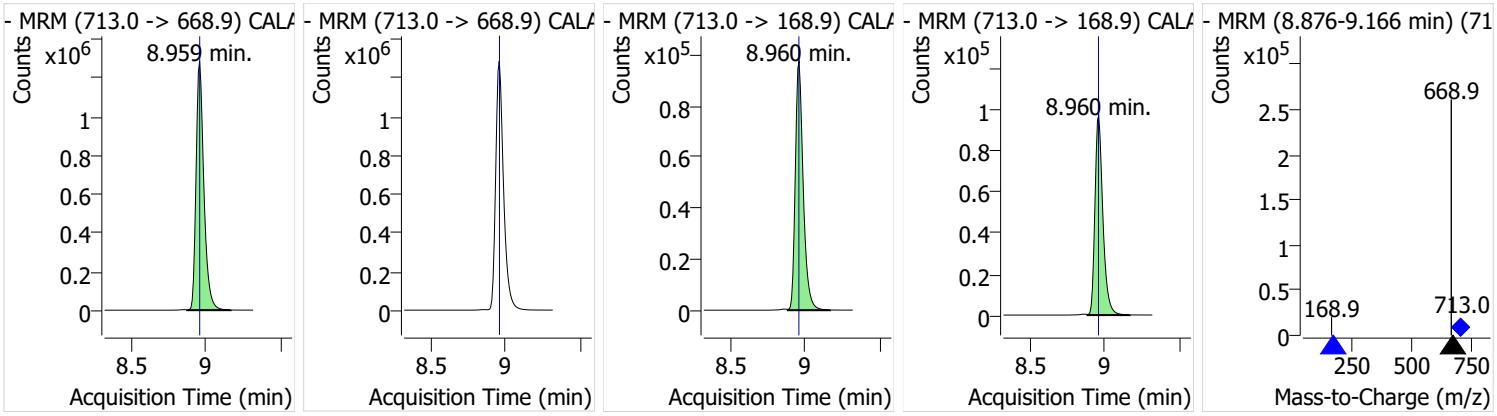
PFPeA



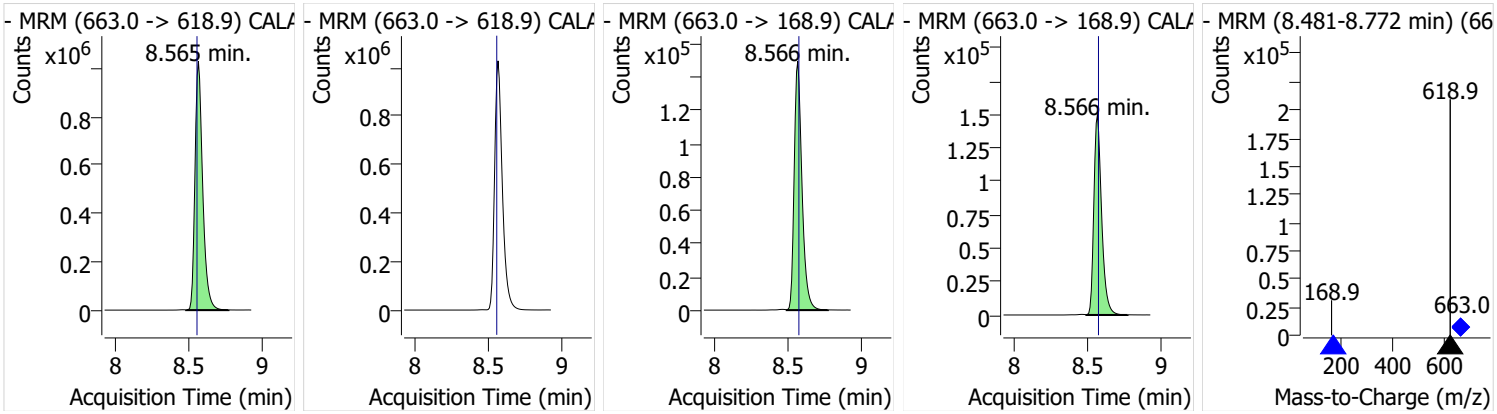
PFPeS



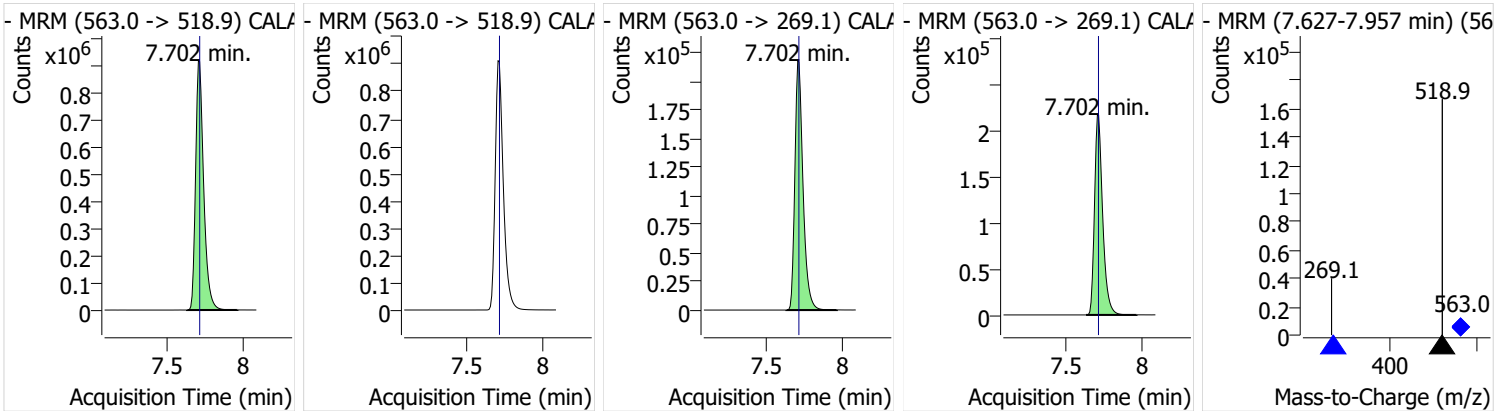
PFTeDA



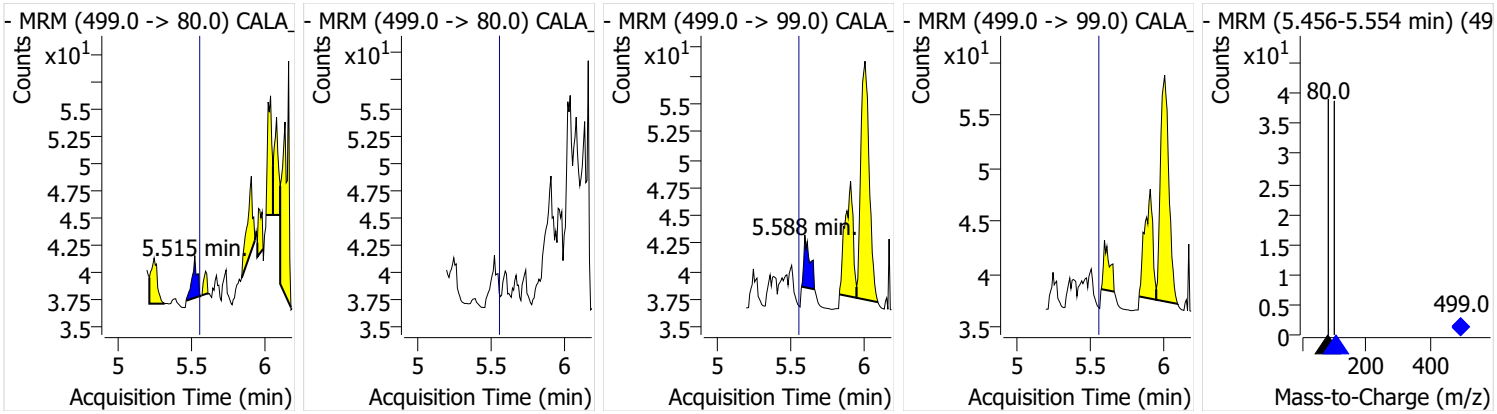
PFTrDA



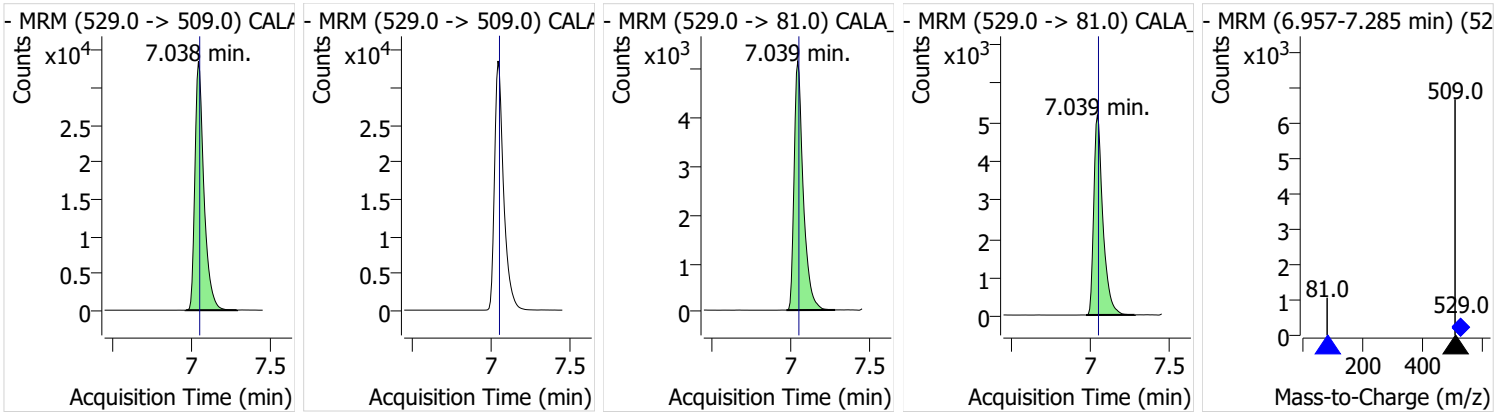
PFUnA



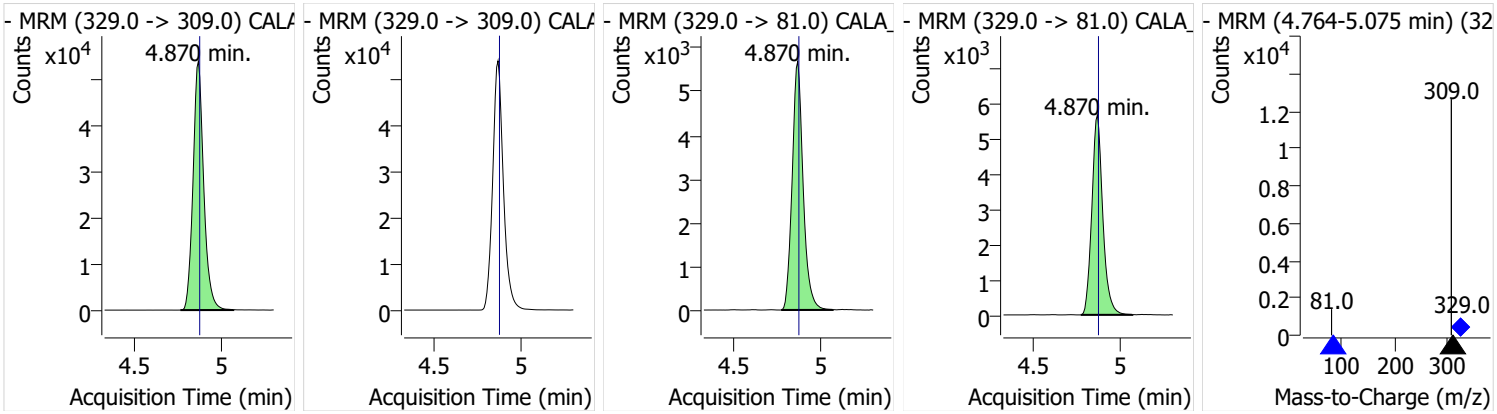
TDCA



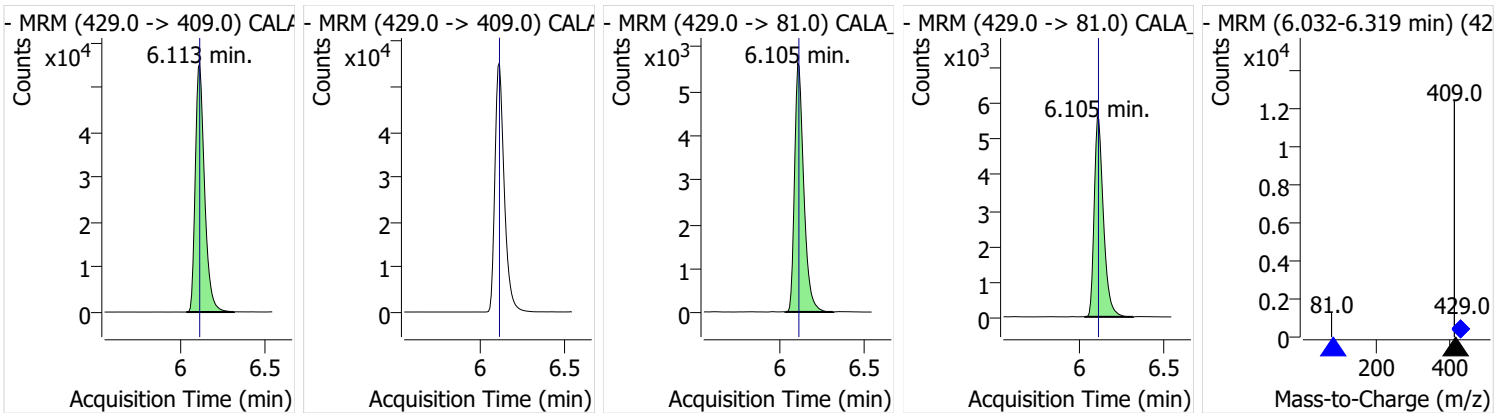
13C2-8:2FTS



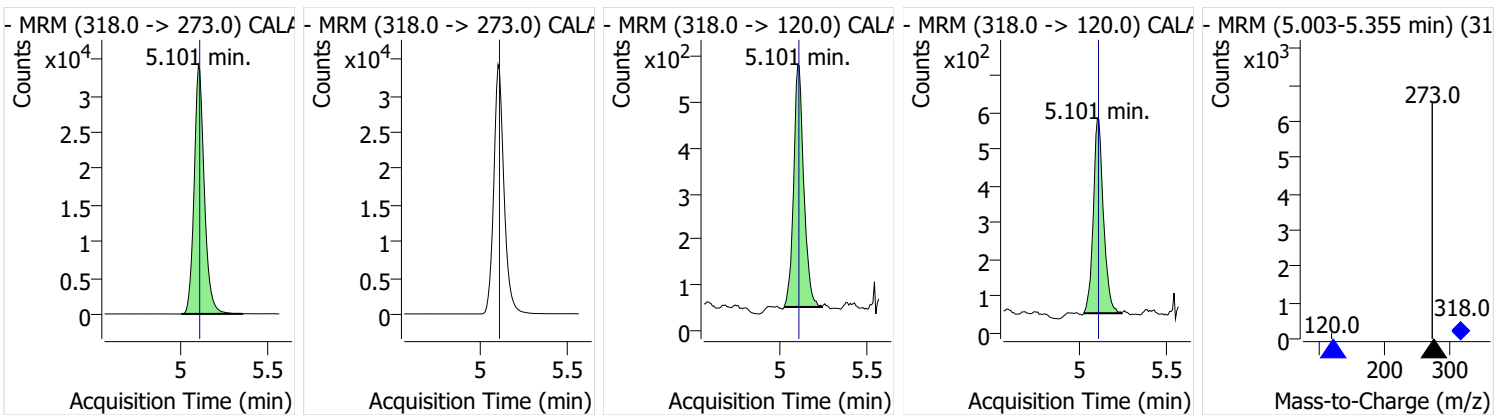
13C2-4:2FTS



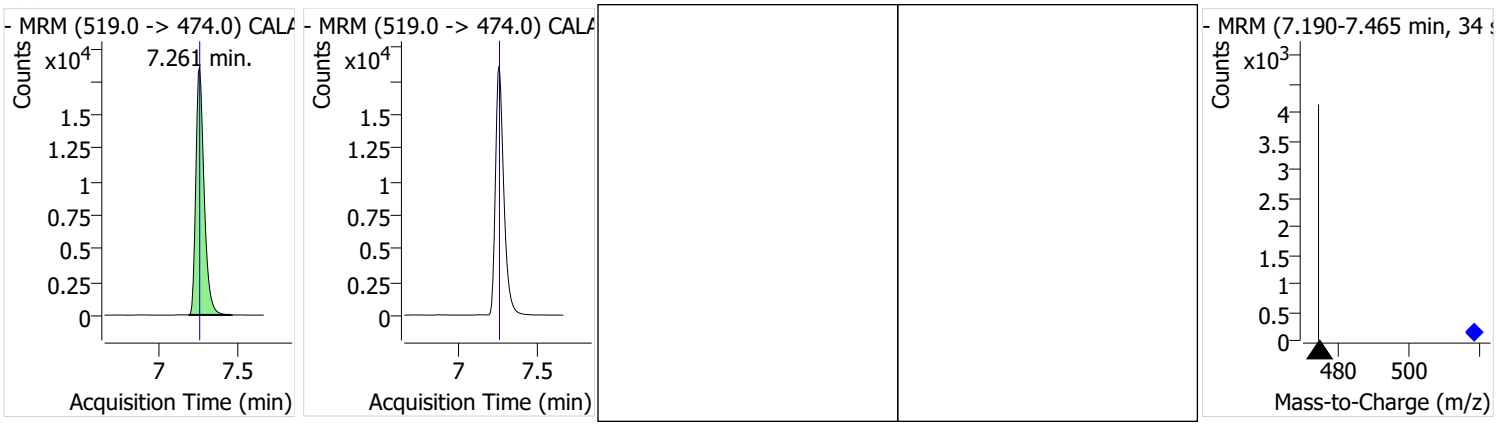
13C2-6:2FTS



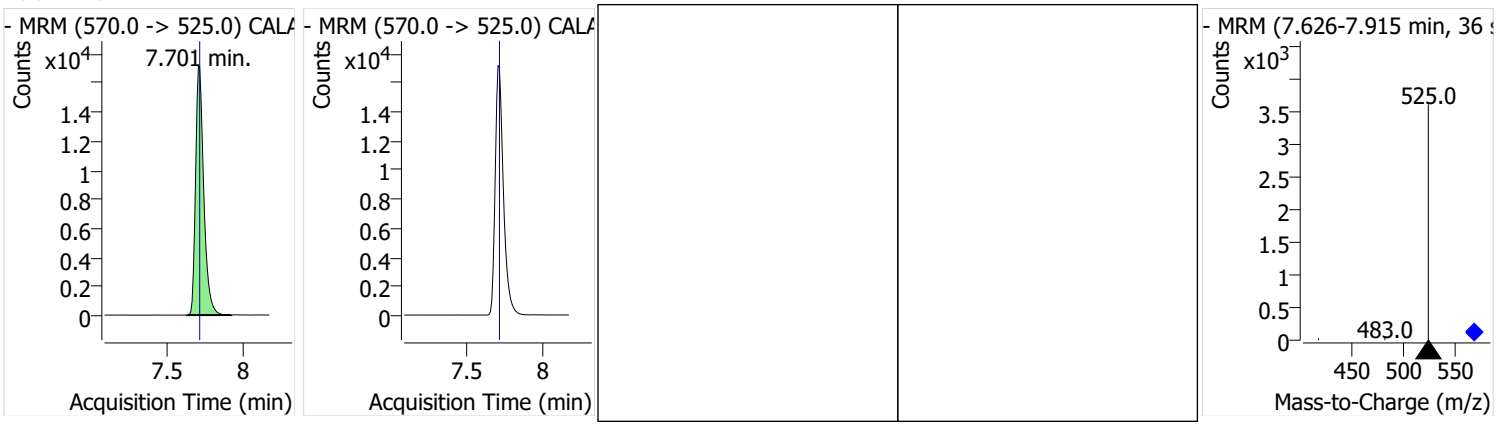
13C5-PFHxA



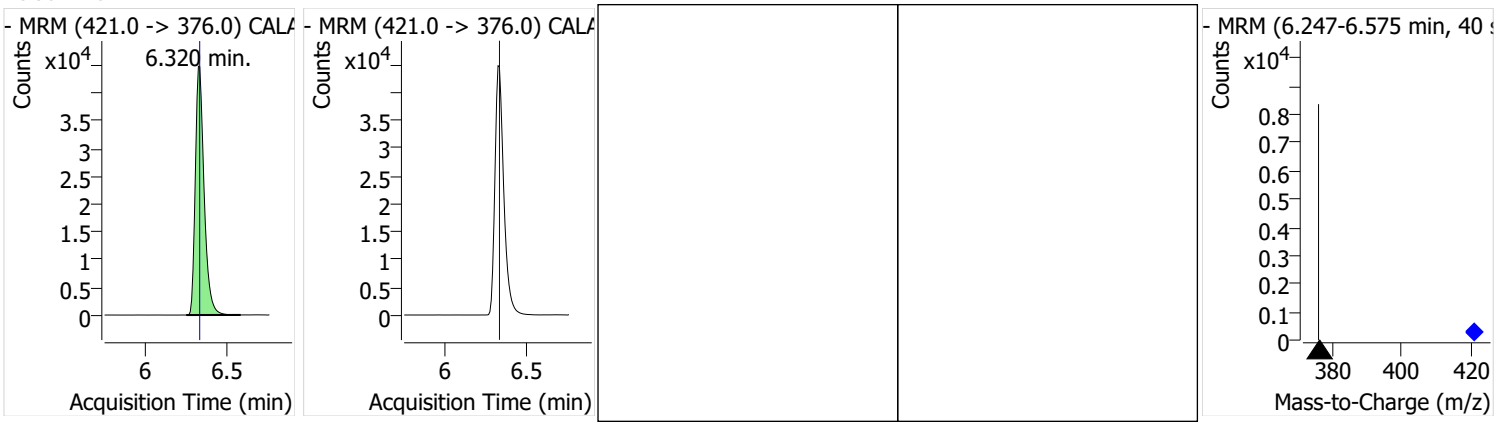
13C6-PFDA



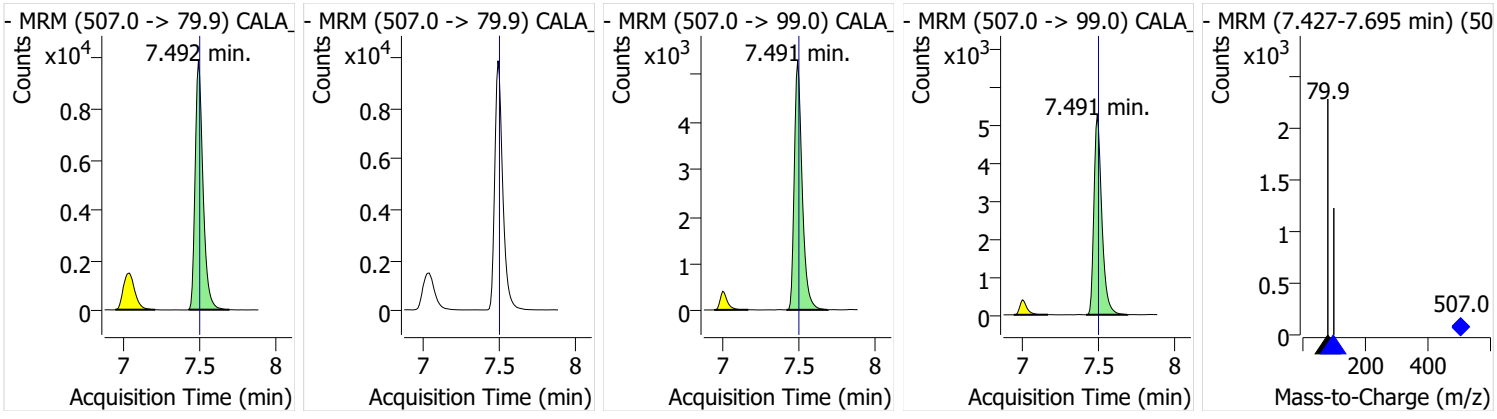
13C7-PFUnA



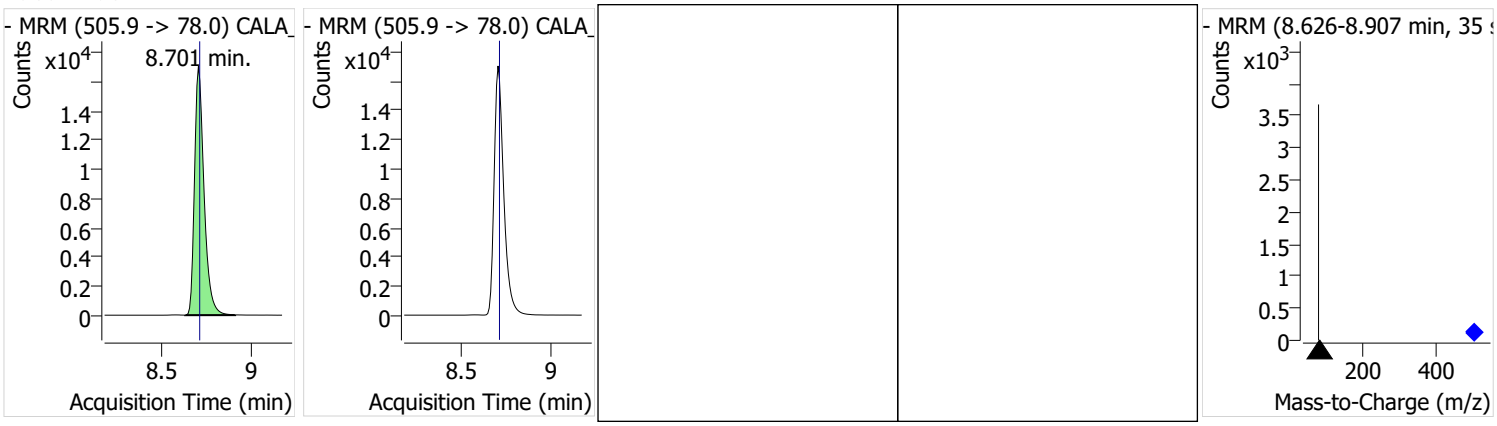
13C8-PFOA



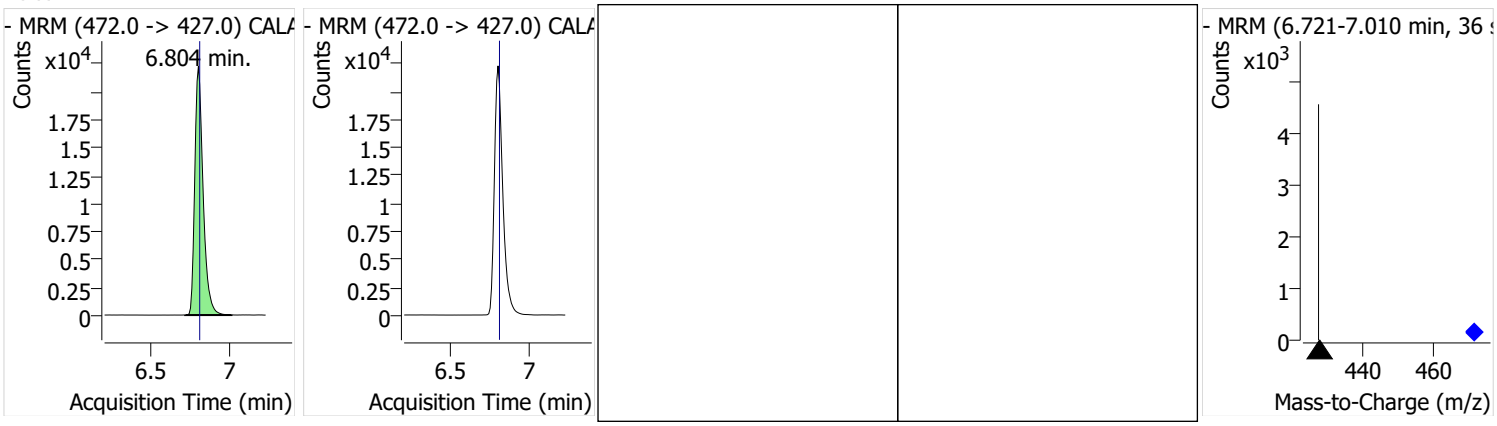
13C8-PFOS



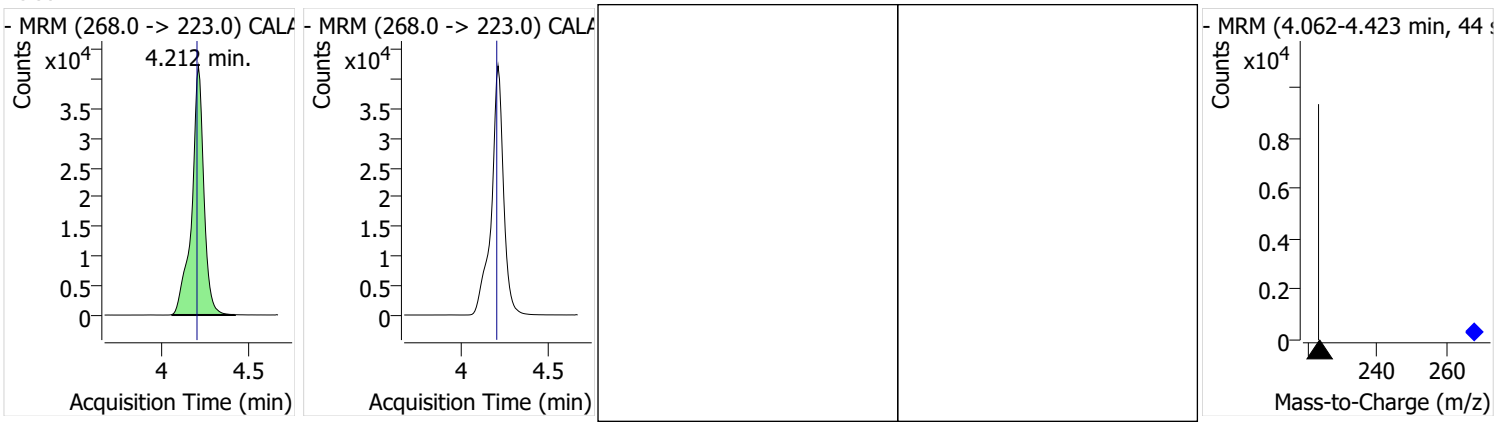
13C8-PFOSA



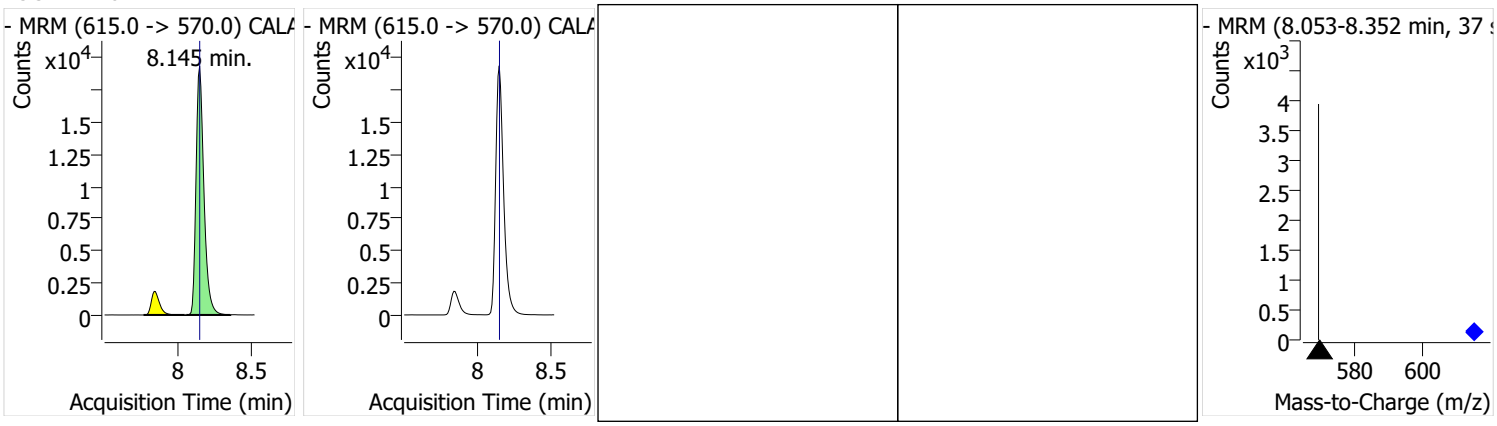
13C9-PFNA



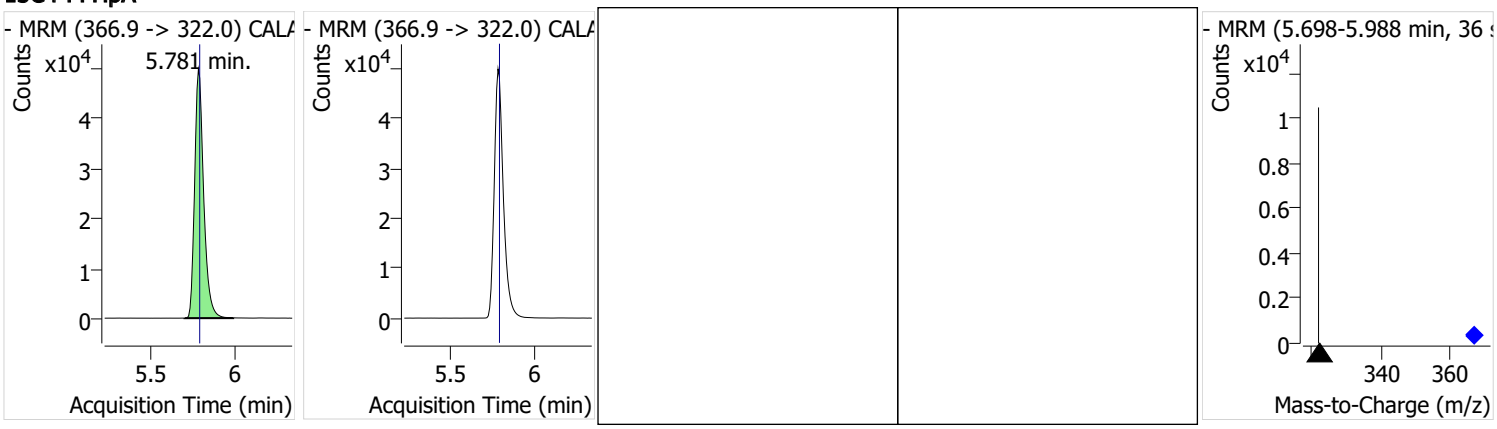
13C5-PFPeA



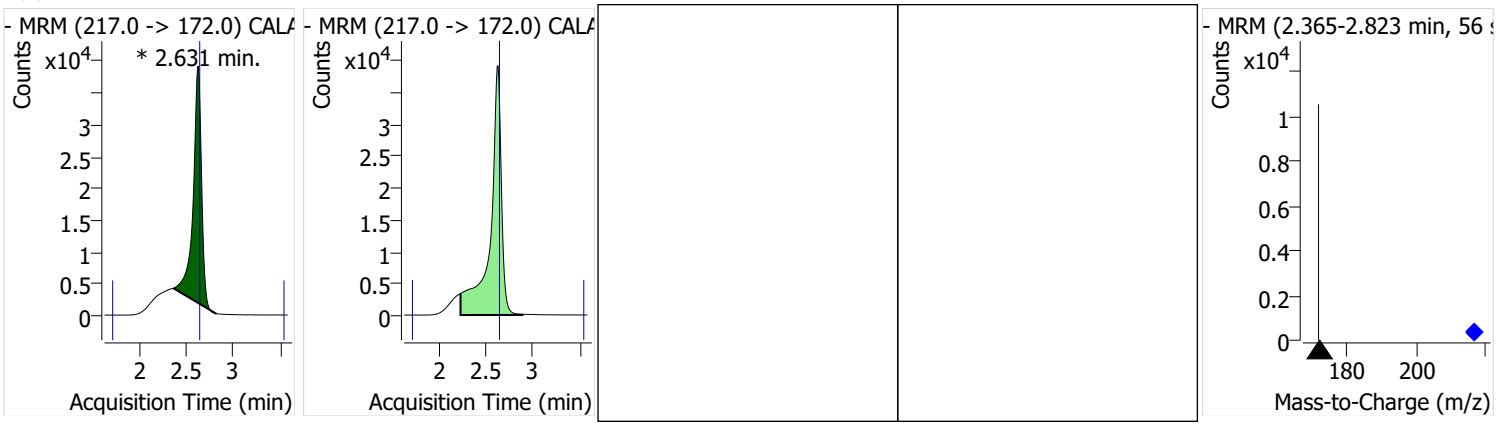
13C2-PFDoA



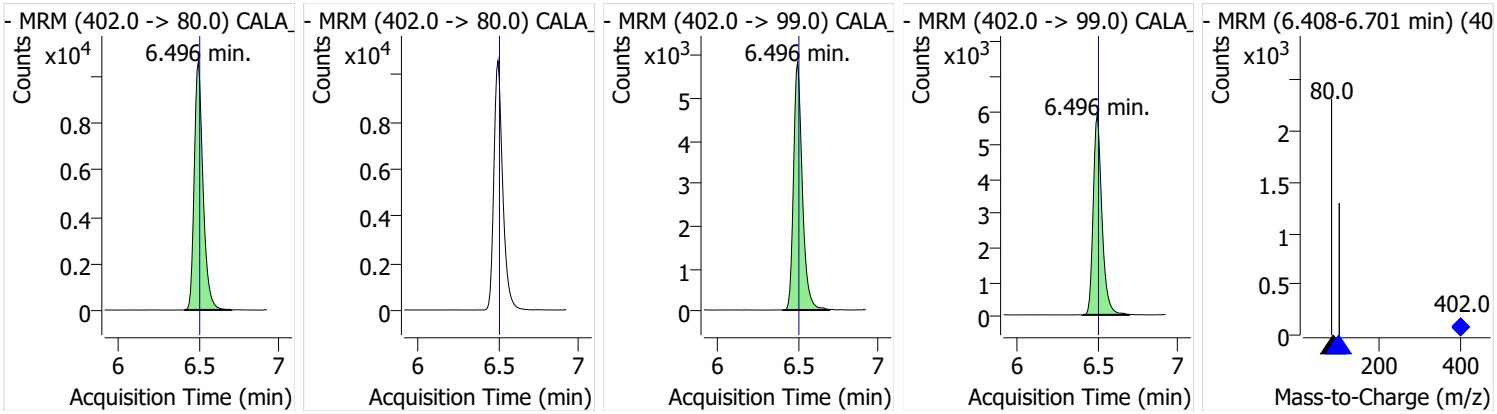
13C4-PFHpA



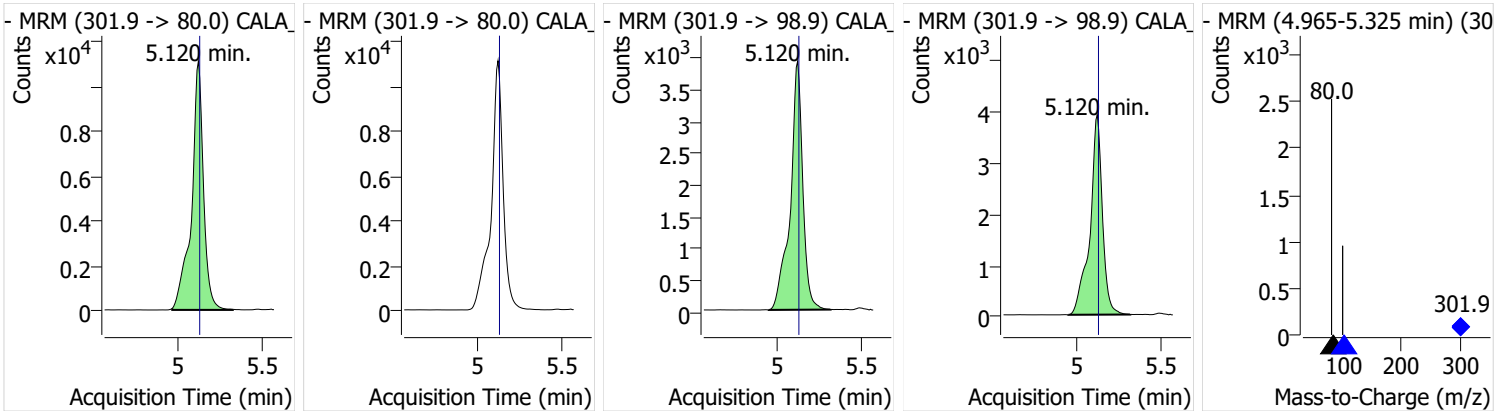
13C4-PFBA



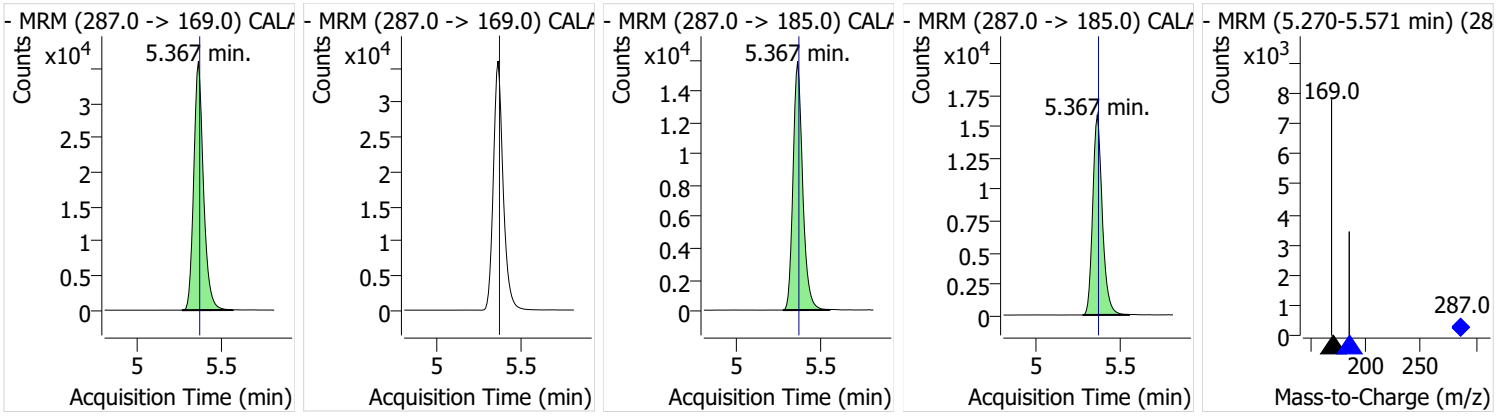
13C3-PFHxS



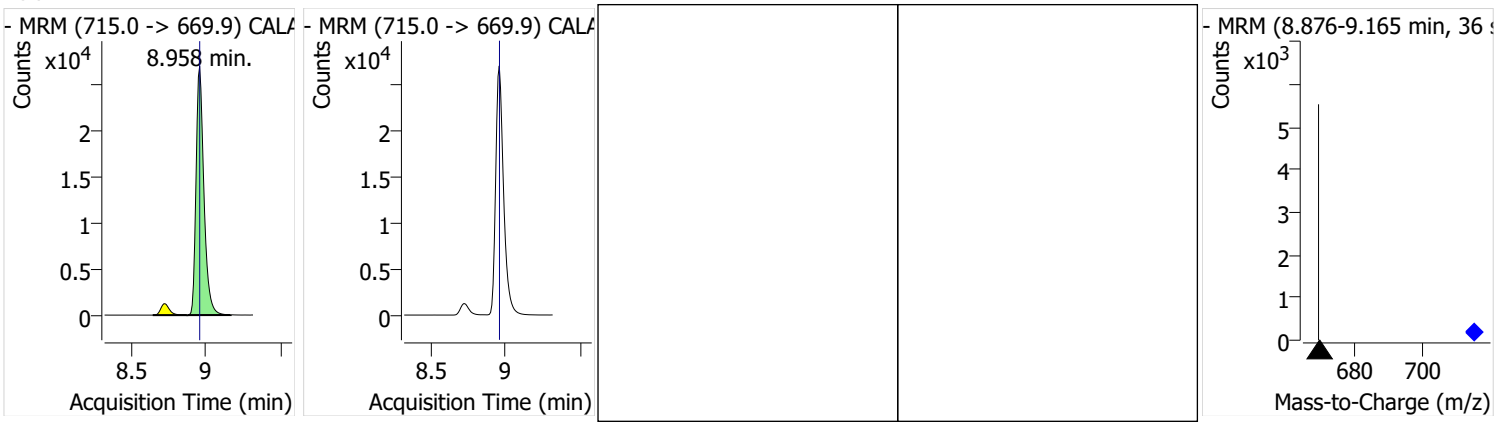
13C3-PFBS



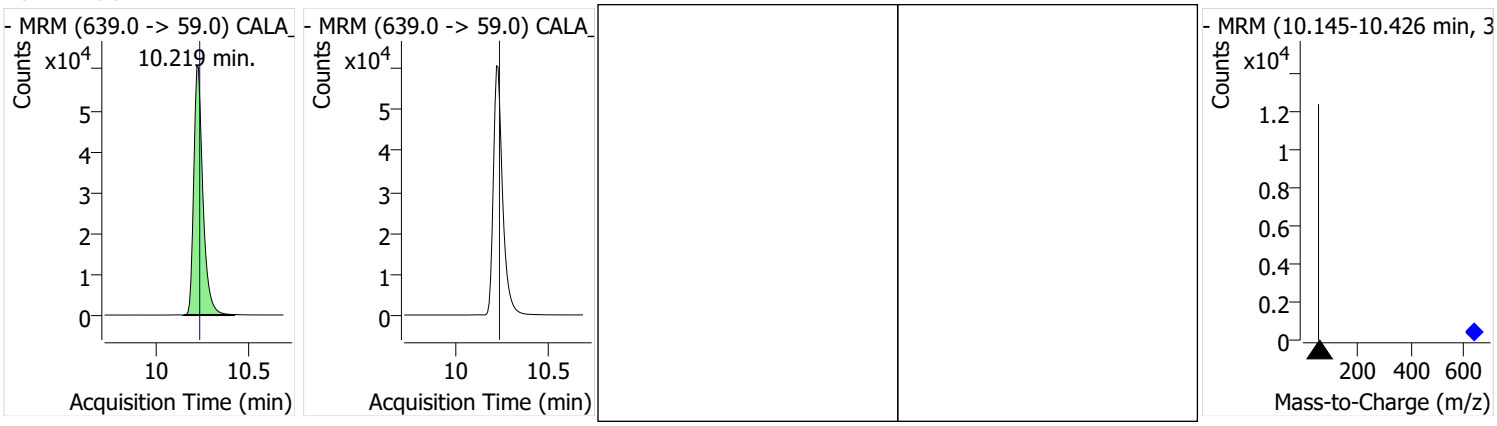
13C3-HFPODA



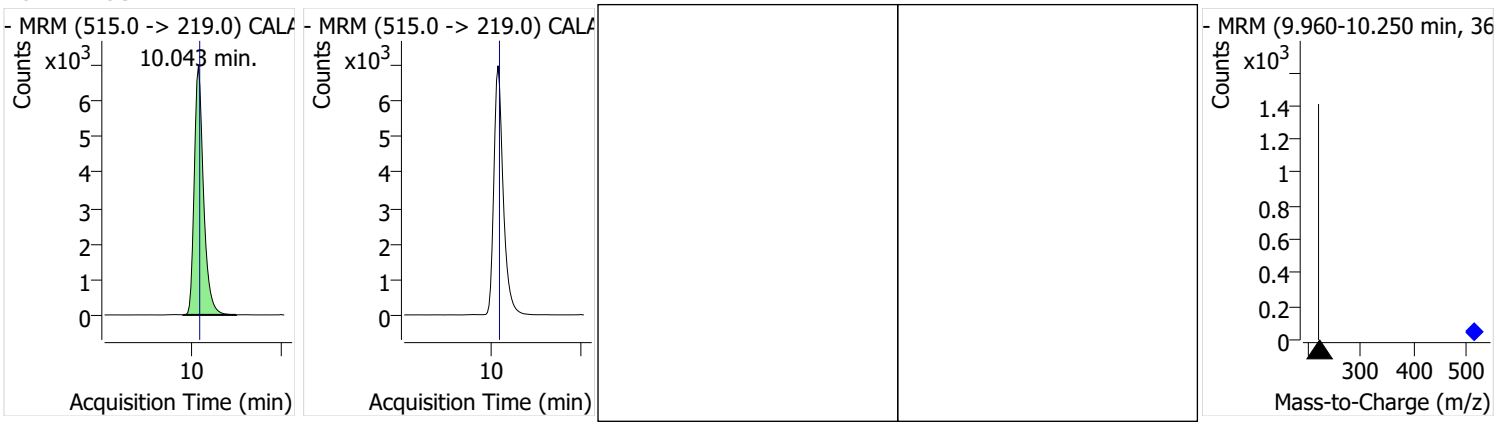
13C2-PFTeDA



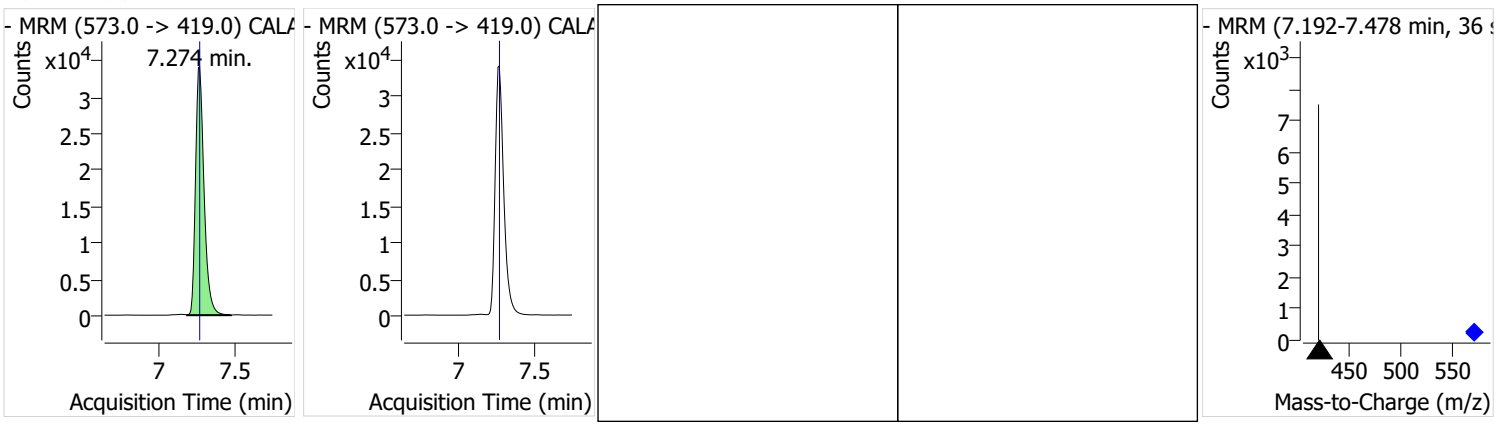
D9-NEtFOSE



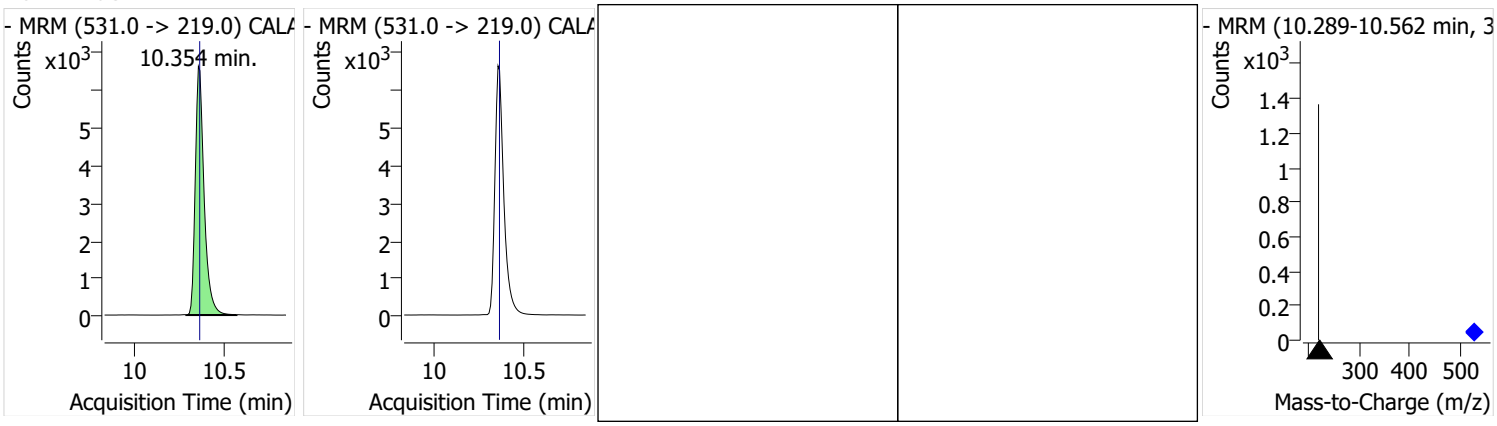
D3-NMeFOSA



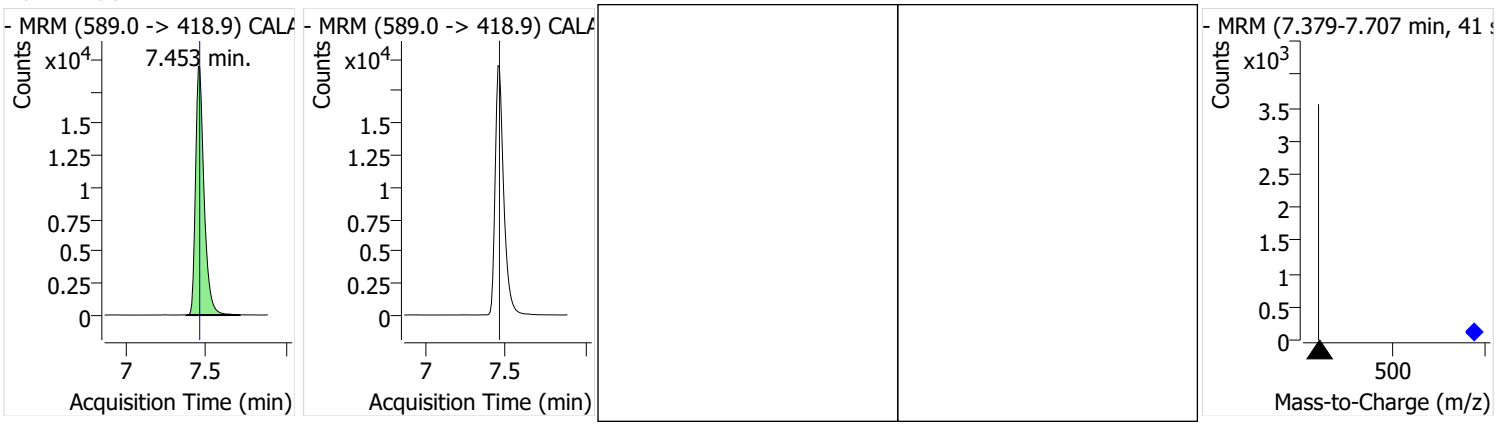
D3-NMeFOSAA



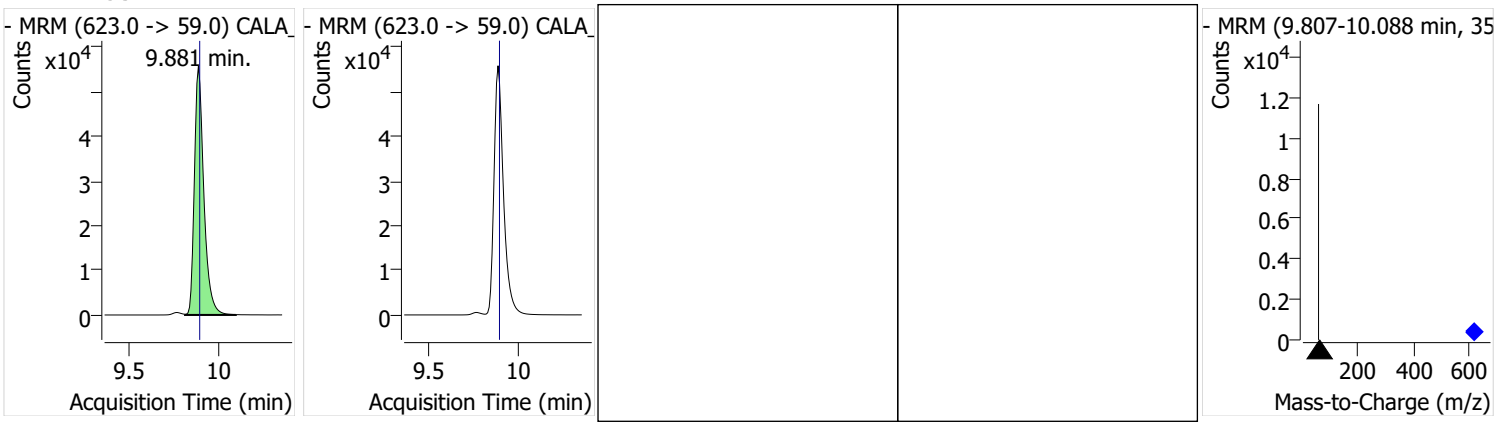
D5-NEtFOSA



D5-NEtFOSAA

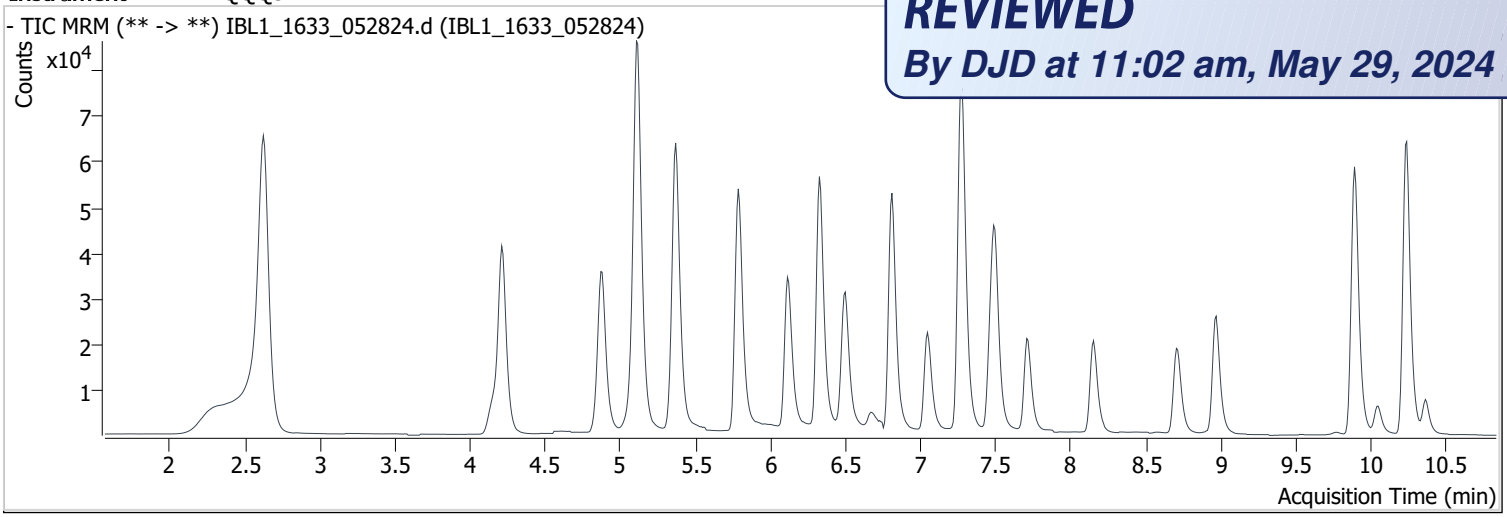


D7-NMeFOSE



Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Last Calib Update**	5/29/2024 8:19 AM
Acq. Time	5/28/2024 12:34 PM	**Data File**	IBL1_1633_052824.d
Sample Type	Sample	**Sample Name**	IBL1_1633_052824
Dilution	1	**Acq. Method**	1633_ACQUISITION.m
Sample Comment	E#24E0527	**Processing method**	1633_050624.m
Instrument	QQQ5		

REVIEWED
By DJD at 11:02 am, May 29, 2024



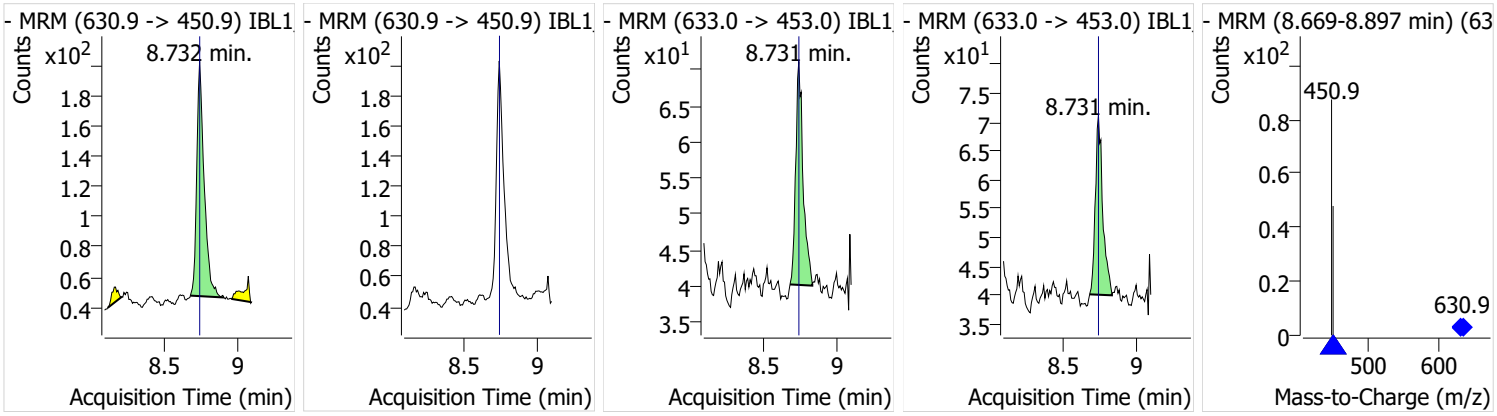
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
11Cl-PF3OUdS	8.732	546	83.90		13C3-HFPODA - ISTD	5.375	163956	0.0088	ng/ml			
633.0 -> 453.0			33.29	19.9								
3:3FTCA	3.741	0			13C5-PFPeA - ISTD	4.212	187823	-	ng/ml	✔	1	AMS 05/29/24
241.0 -> 117.0				*								
4:2FTS	4.838	0			13C2-4:2FTS - ISTD	4.870	37458	-	ng/ml	✔	1	AMS 05/29/24
327.0 -> 80.9				*								
5:3FTCA	5.493	1613	91.90		13C5-PFHxA - ISTD	5.109	141603	0.2218	ng/ml			
341.0 -> 217.0			101.72	82.1								
6:2FTS	6.098	0			13C2-6:2FTS - ISTD	6.114	28076	-	ng/ml	✔	1	AMS 05/29/24
427.0 -> 80.9				*								
7:3FTCA	6.674	6266	264.84		13C5-PFHxA - ISTD	5.109	141603	0.6881	ng/ml			
441.0 -> 317.0			396.90	81.4								
8:2FTS	7.039	0			13C2-8:2FTS - ISTD	7.047	25275	-	ng/ml	✔	1	AMS 05/29/24
527.0 -> 81.0				*								
9Cl-PF3ONS	7.859	0			13C3-HFPODA - ISTD	5.375	163956	-	ng/ml	✔	1	AMS 05/29/24
533.0 -> 353.0				*								
ADONA	6.004	0			13C3-HFPODA - ISTD	5.375	163956	-	ng/ml	✔	1	AMS 05/29/24
377.0 -> 85.1				*								
HFPO-DA	5.360	0			13C3-HFPODA - ISTD	5.375	163956	-	ng/ml	✔	1	AMS 05/29/24
285.0 -> 184.9				*								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
NEtFOSA	10.381	0			D5-NEtFOSA - ISTD	10.362	22375	-	ng/ml	✔	1	AMS 05/29/24
526.0 -> 219.0				*								
NEtFOSAA	7.470	0			D5-NEtFOSAA - ISTD	7.469	75716	-	ng/ml	✔	1	AMS 05/29/24
584.0 -> 526.0				*								
NEtFOSE	10.253	1279	234.90		D9-NEtFOSE - ISTD	10.236	226996	0.1227	ng/ml			
NFDHA	5.040	0			13C5-PFHxA - ISTD	5.109	141603	-	ng/ml	✔	1	AMS 05/29/24
295.0 -> 85.0				*								
NMeFOSA	10.053	0			D3-NMeFOSA - ISTD	10.051	21007	-	ng/ml	✔	1	AMS 05/29/24
512.0 -> 219.0				*								
NMeFOSAA	7.283	0			D3-NMeFOSAA - ISTD	7.274	153322	-	ng/ml	✔	1	AMS 05/29/24
570.0 -> 418.9				*								
NMeFOSE	9.915	1049	281.34		D7-NMeFOSE - ISTD	9.890	211570	0.1107	ng/ml			
PFBA	2.662	0			13C4-PFBA - ISTD	2.623	248856	-	ng/ml	✔	1	AMS 05/29/24
PFBS	5.048	0			13C3-PFBS - ISTD	5.120	61277	-	ng/ml	✔	1	AMS 05/29/24
298.9 -> 98.8				*								
PFDA	7.204	0			13C6-PFDA - ISTD	7.269	72332	-	ng/ml	✔	1	AMS 05/29/24
513.0 -> 219.0				*								
PFDoA	8.153	0			13C2-PFDoA - ISTD	8.153	71270	-	ng/ml	✔	1	AMS 05/29/24
613.0 -> 319.0				*								
PFDoS	9.189	0			13C8-PFOS - ISTD	7.500	37829	-	ng/ml	✔	1	AMS 05/29/24
698.9 -> 99.0				*								
PFDS	8.436	0			13C8-PFOS - ISTD	7.500	37829	-	ng/ml	✔	1	AMS 05/29/24
599.0 -> 98.8				*								
PFEESA	5.519	0			13C5-PFHxA - ISTD	5.109	141603	-	ng/ml	✔	1	AMS 05/29/24
315.0 -> 83.0				*								
PFHpA	5.789	0			13C4-PFHpA - ISTD	5.789	187468	-	ng/ml	✔	1	AMS 05/29/24
362.9 -> 169.0				*								
PFHpS	7.019	0			13C8-PFOS - ISTD	7.500	37829	-	ng/ml	✔	1	AMS 05/29/24
449.0 -> 98.8				*								
PFHxA	5.103	0			13C5-PFHxA - ISTD	5.109	141603	-	ng/ml	✔	1	AMS 05/29/24
313.0 -> 118.9				*								

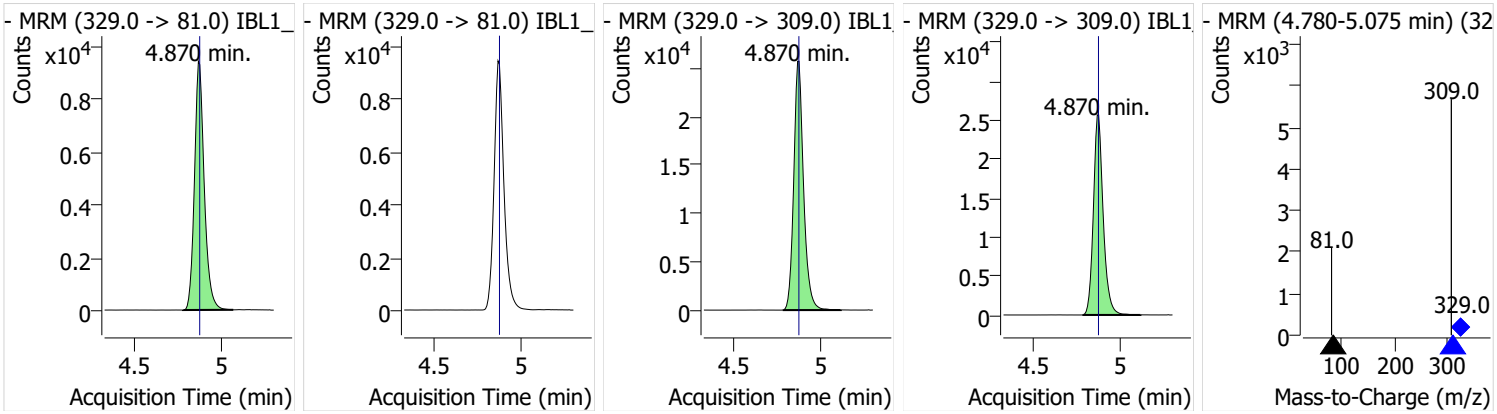
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFHxS	6.521	0			13C3-PFHxS - ISTD	6.504	43340	-	ng/ml	✔	1	AMS 05/29/24
398.9 -> 99.0				*								
PFMBA	4.530	0			13C5-PFPeA - ISTD	4.212	187823	-	ng/ml	✔	1	AMS 05/29/24
PFMPA	3.432	0			13C5-PFPeA - ISTD	4.212	187823	-	ng/ml	✔	1	AMS 05/29/24
PFNA	6.796	0			13C9-PFNA - ISTD	6.812	83064	-	ng/ml	✔	1	AMS 05/29/24
463.0 -> 219.0				*								
PFNS	7.967	0			13C8-PFOS - ISTD	7.500	37829	-	ng/ml	✔	1	AMS 05/29/24
549.0 -> 98.8				*								
PFOA	6.337	0			13C8-PFOA - ISTD	6.328	173064	-	ng/ml	✔	1	AMS 05/29/24
413.0 -> 169.0				*								
PFOS	7.510	119	20.85		13C8-PFOS - ISTD	7.500	37829	0.0065	ng/ml			
499.0 -> 99.0			18.54	56.5								
PFOSA	8.702	0			13C8-PFOSA - ISTD	8.709	68617	-	ng/ml	✔	1	AMS 05/29/24
497.9 -> 478.0				*								
PFPeA	4.214	0			13C5-PFPeA - ISTD	4.212	187823	-	ng/ml	✔	1	AMS 05/29/24
263.0 -> 69.0				*								
PFPeS	5.857	0			13C3-PFHxS - ISTD	6.504	43340	-	ng/ml	✔	1	AMS 05/29/24
349.0 -> 98.9				*								
PFTeDA	8.967	1383	75.04		13C2-PFTeDA - ISTD	8.967	90917	0.0196	ng/ml			
713.0 -> 168.9			66.47	7.7								
PFTrDA	8.573	0			13C2-PFDoA - ISTD	8.153	71270	-	ng/ml	✔	1	AMS 05/29/24
663.0 -> 168.9				*								
PFUnA	7.710	0			13C7-PFUnA - ISTD	7.709	71291	-	ng/ml	✔	1	AMS 05/29/24
563.0 -> 269.1				*								
TDCA	6.121	11	5.44					-	ng/ml			
499.0 -> 99.0			2.97	***45.5**								
13C2-8:2FTS	7.046	50796	297734.40		18O2-PFHxS	6.504	40384	4.6058	ng/ml			
529.0 -> 81.0			8073.53	49.8								
13C2-4:2FTS	4.870	102746	21409.03		18O2-PFHxS	6.504	40384	4.9976	ng/ml			
329.0 -> 81.0			13928.51	36.5								
13C2-6:2FTS	6.113	88310	62495.53		18O2-PFHxS	6.504	40384	4.8326	ng/ml			
429.0 -> 81.0			7150.30	31.8								
13C5-PFHxA	5.109	141603	25342.95		13C2-PFHxA	5.110	123215	2.7124	ng/ml			

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
318.0 -> 120.0			297.37	1.7								
13C6-PFDA	7.269	72332	6209.96		13C2-PFDA	7.270	67929	1.3372	ng/ml			
13C7-PFUnA	7.709	71291	15963.45		13C2-PFDA	7.270	67929	1.4097	ng/ml			
13C8-PFOA	6.328	173064	29228.45		13C4-PFOA	6.329	18838	2.8078	ng/ml			
13C8-PFOS	7.500	37829	10567.99		13C4-PFOS	7.501	38125	2.6752	ng/ml			
507.0 -> 99.0			7727.30	53.2								
13C8-PFOSA	8.709	68617	736693.98		13C4-PFOS	7.501	38125	2.6854	ng/ml			
13C9-PFNA	6.812	83064	13633.41		13C5-PFNA	6.812	99034	1.3632	ng/ml			
13C5-PFPeA	4.212	187823	13542.52		13C2-PFHxA	5.110	123215	4.8518	ng/ml			
13C2-PFDoA	8.153	71270	12534.03		13C2-PFDA	7.270	67929	1.3655	ng/ml			
13C4-PFHpA	5.789	187468	27502.55		13C2-PFHxA	5.110	123215	2.7526	ng/ml			
13C4-PFBA	2.623	255449	30989.55		13C3-PFBA	2.625	108894	10.7384	ng/ml	✔	3	AMS 05/29/24
13C3-PFHxS	6.504	43340	7586.66		18O2-PFHxS	6.504	40384	2.6151	ng/ml			
402.0 -> 99.0			150178.84	53.3								
13C3-PFBS	5.120	61277	10862.36		18O2-PFHxS	6.504	40384	2.5551	ng/ml			
301.9 -> 98.9			11176.00	38.3								
13C3-HFPODA	5.375	163956	33308.39		13C2-PFHxA	5.110	123215	10.9505	ng/ml			
287.0 -> 185.0			6469.54	44.0								
13C2-PFTeDA	8.967	90917	25208.67		13C2-PFDA	7.270	67929	1.2917	ng/ml			
D9-NEtFOSE	10.236	226996	69299.05		13C4-PFOS	7.501	38125	27.4615	ng/ml			
D3-NMeFOSA	10.051	21007	12364.82		13C4-PFOS	7.501	38125	2.5166	ng/ml			
D3-NMeFOSAA	7.274	153322	45947.92		13C4-PFOS	7.501	38125	5.4113	ng/ml			
D5-NEtFOSA	10.362	22375	6846.06		13C4-PFOS	7.501	38125	2.6331	ng/ml			
D5-NEtFOSAA	7.469	75716	14870.24		13C4-PFOS	7.501	38125	5.3379	ng/ml			
D7-NMeFOSE	9.890	211570	164861.19		13C4-PFOS	7.501	38125	27.3889	ng/ml			

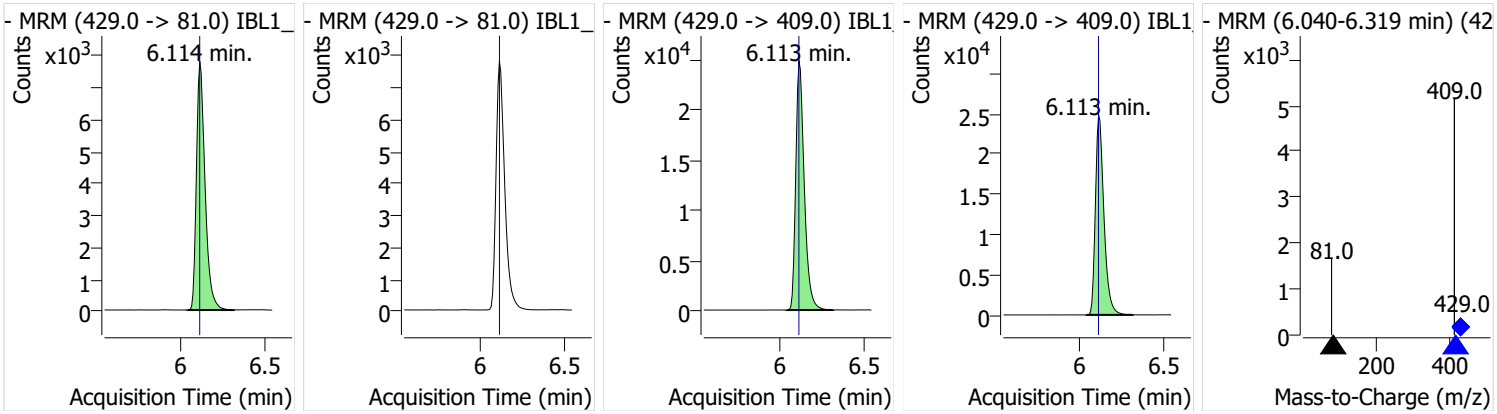
11Cl-PF3OUdS



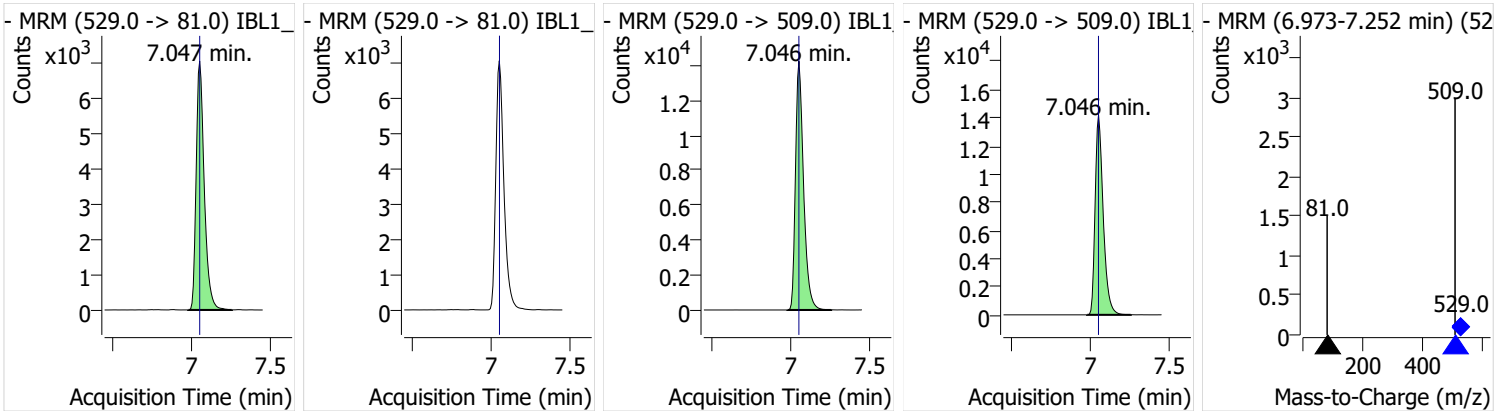
13C2-4:2FTS - ISTD



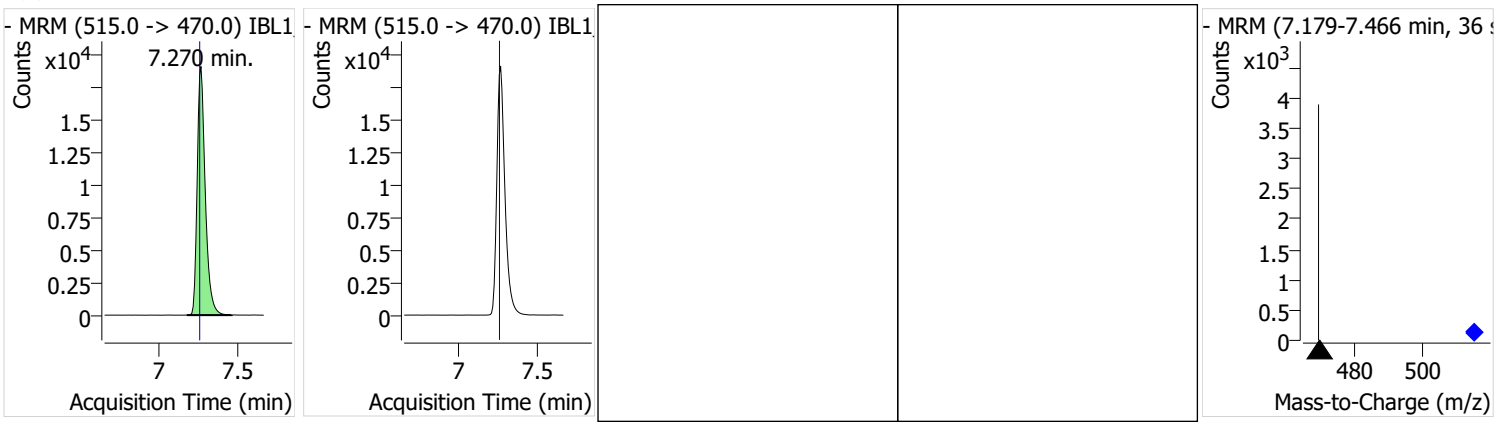
13C2-6:2FTS - ISTD



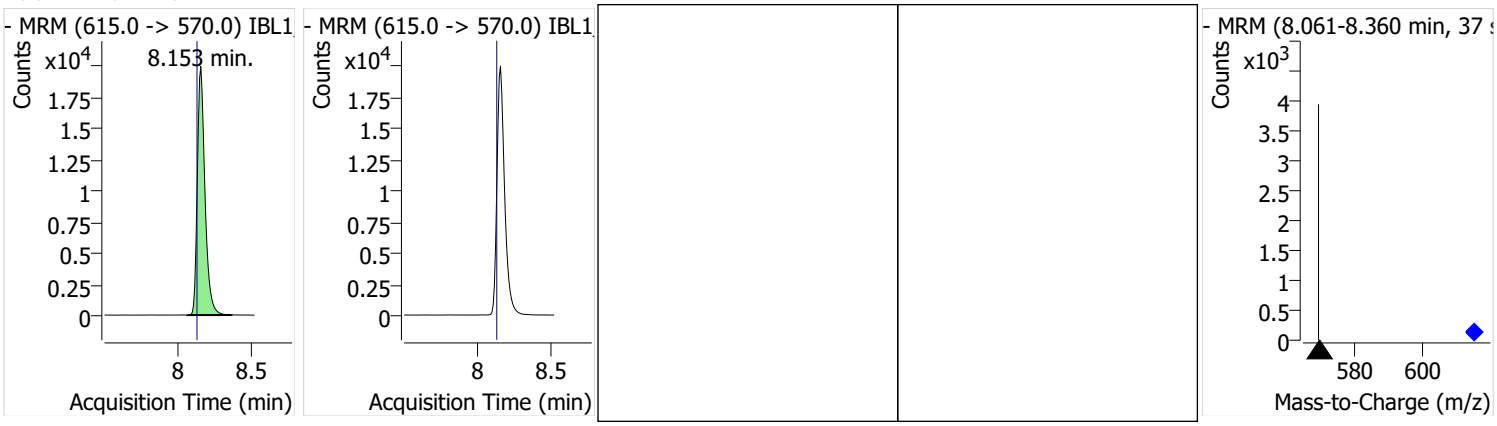
13C2-8:2FTS - ISTD



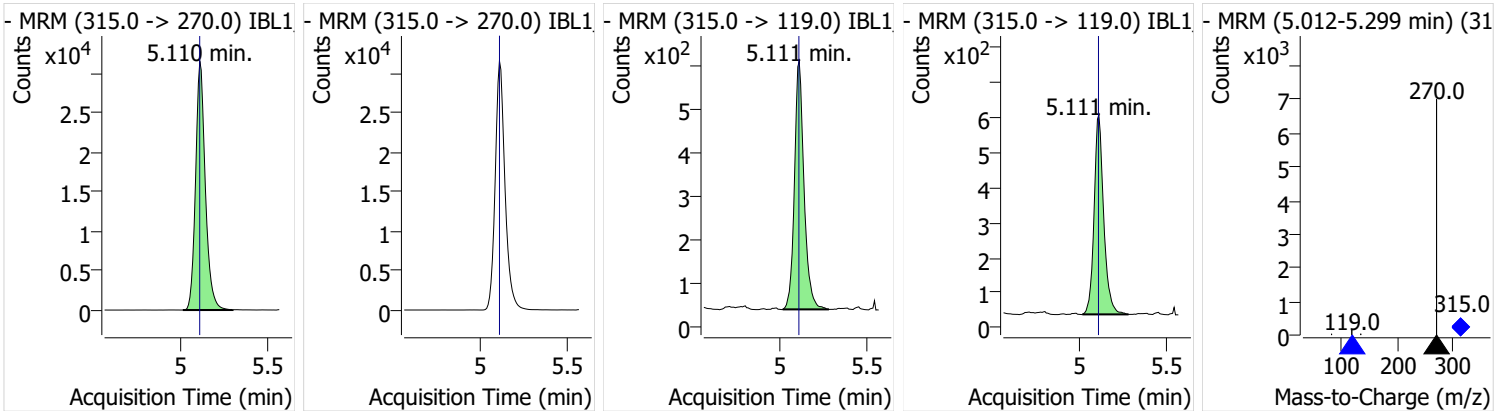
13C2-PFDA



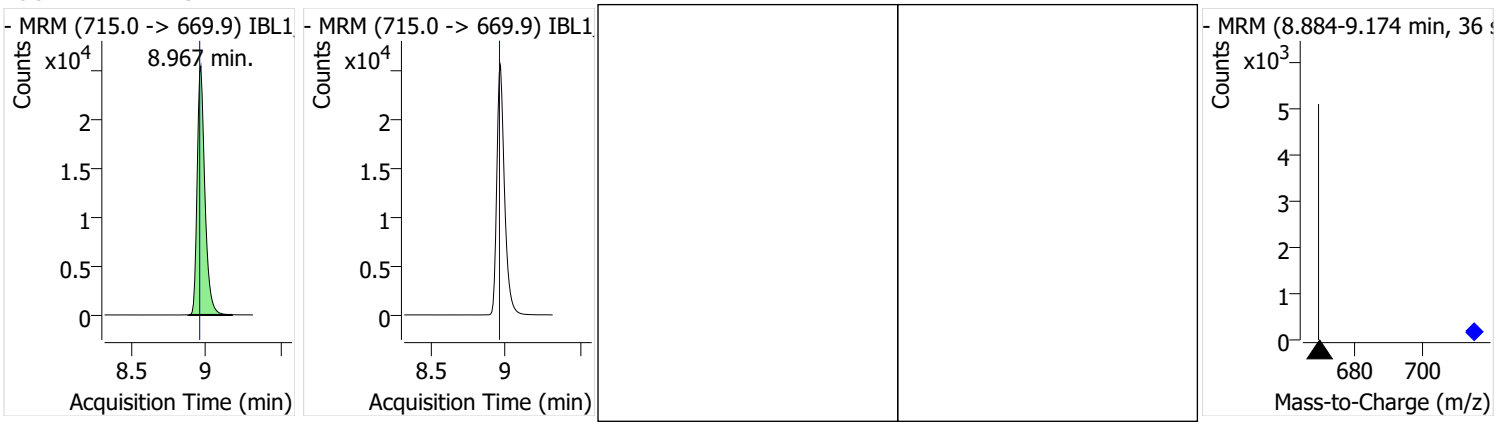
13C2-PFDoA - ISTD



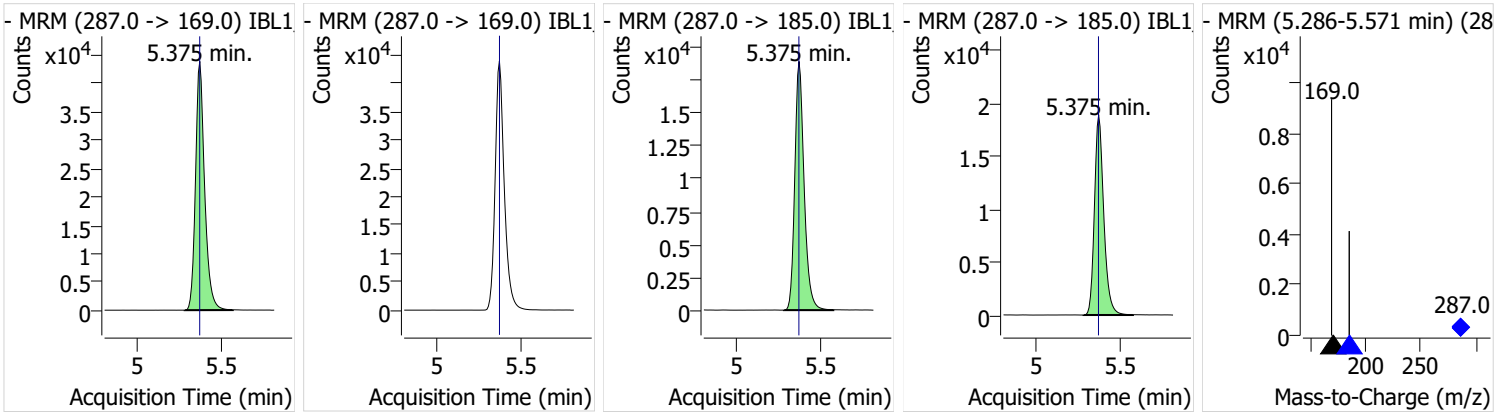
13C2-PFHxA



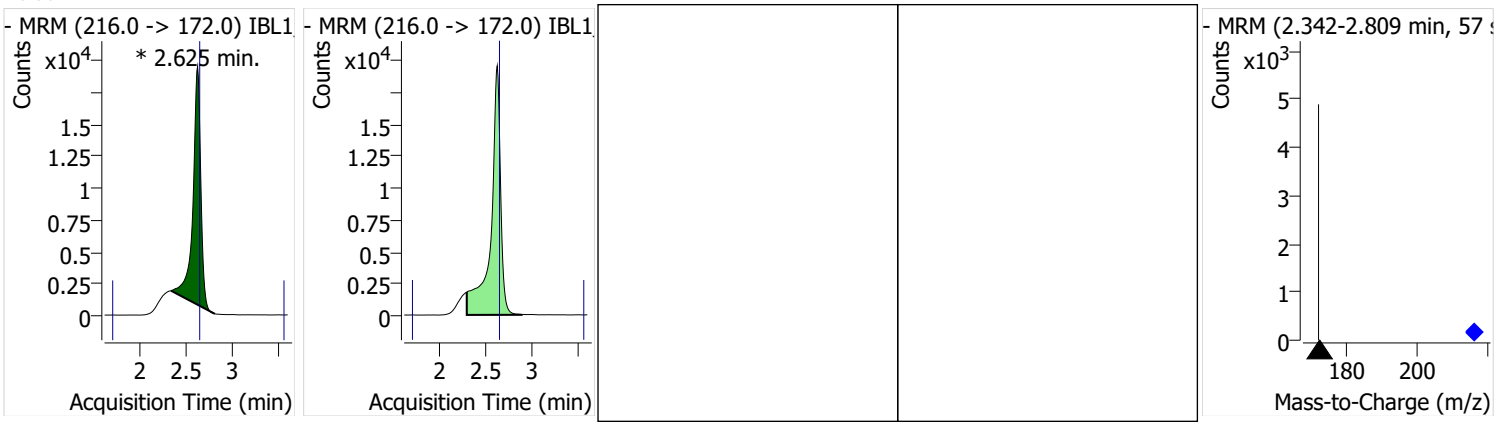
13C2-PFTeDA - ISTD



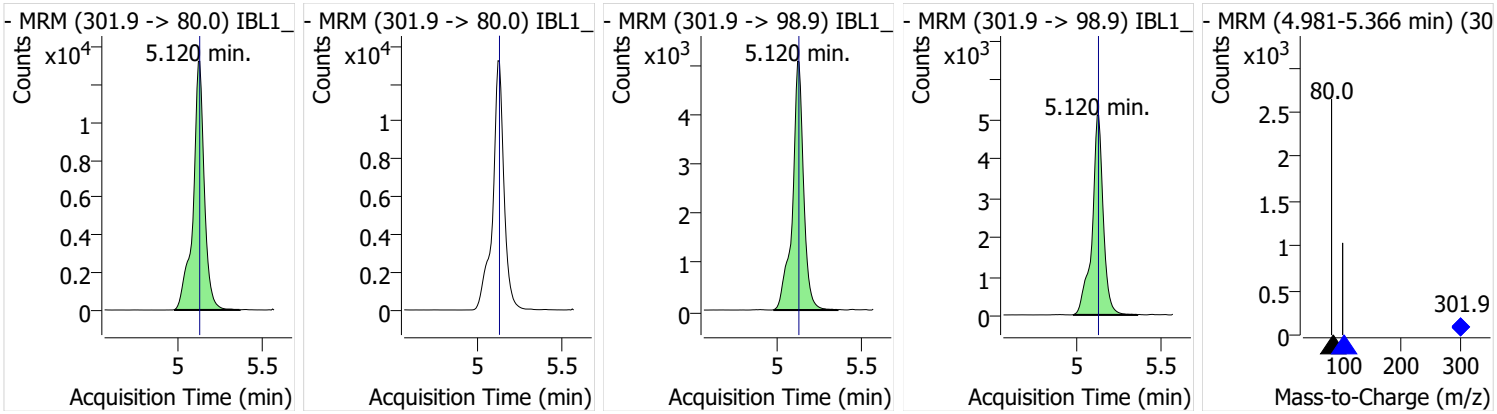
13C3-HFPODA - ISTD



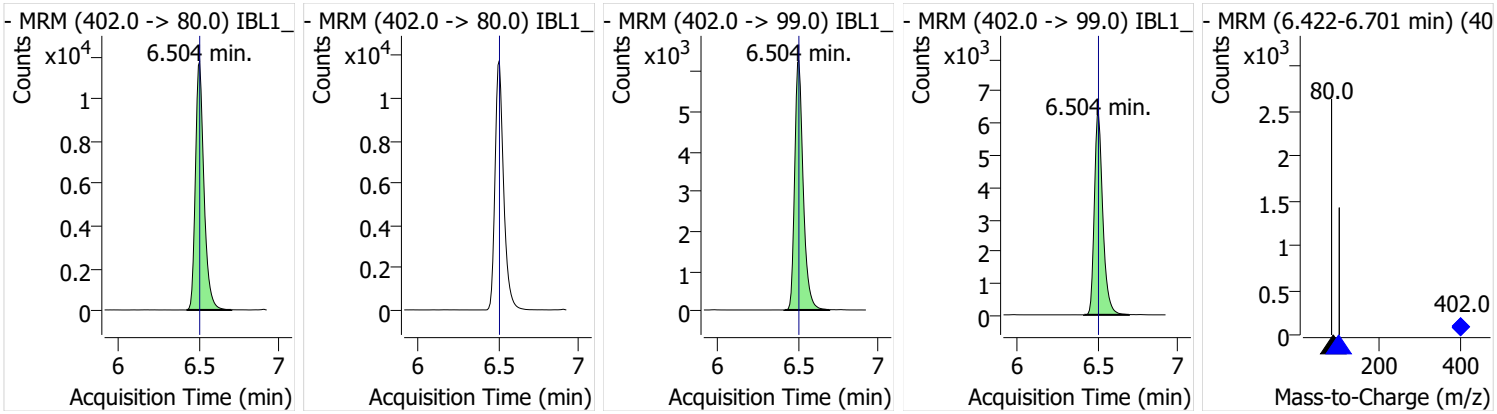
13C3-PFBA



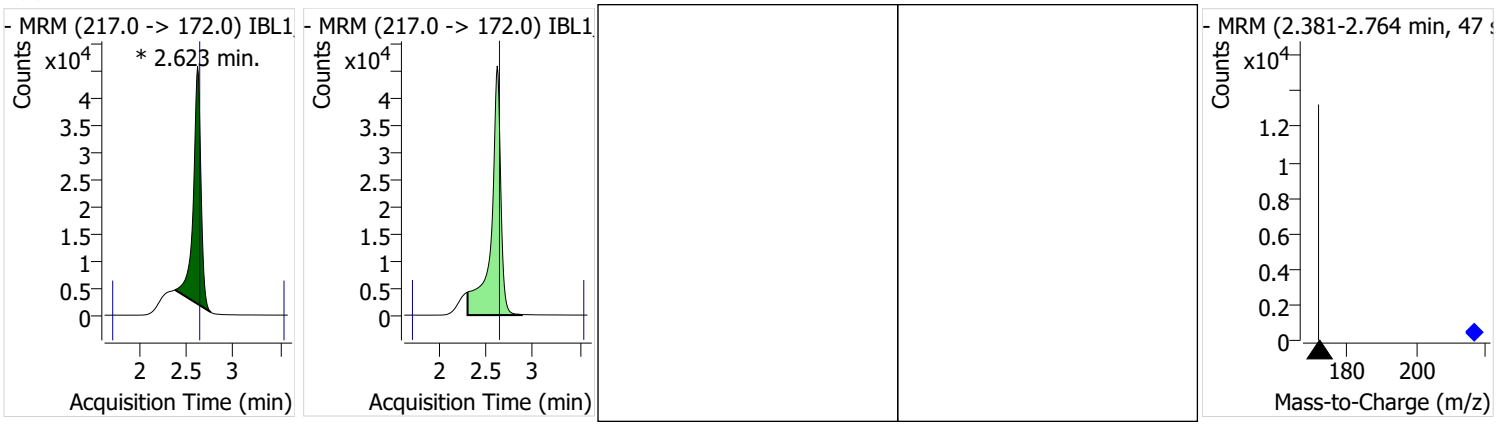
13C3-PFBS - ISTD



13C3-PFHxS - ISTD

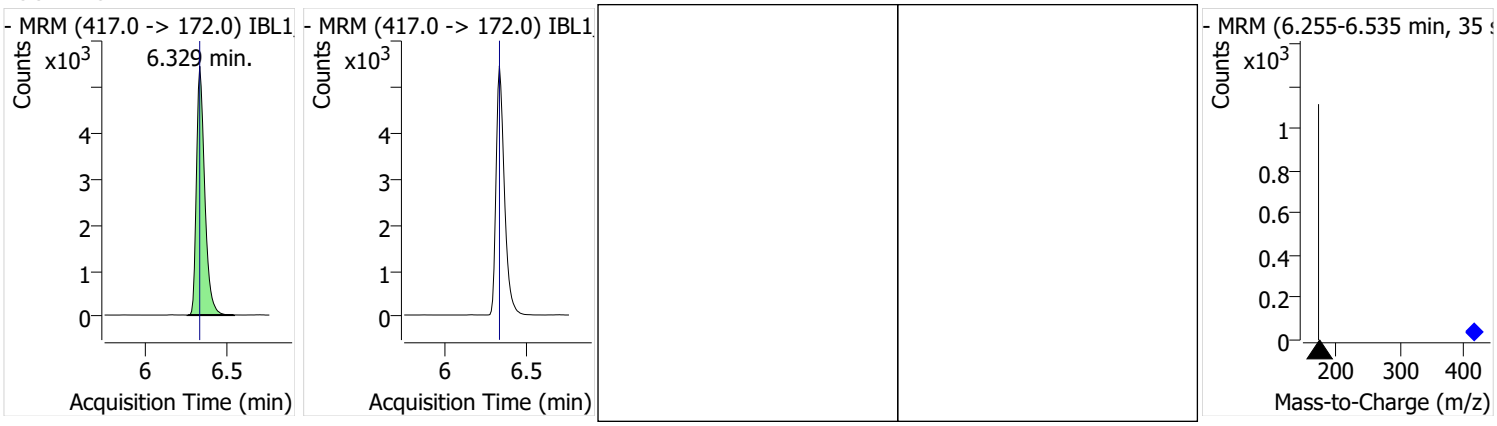


13C4-PFBA - ISTD

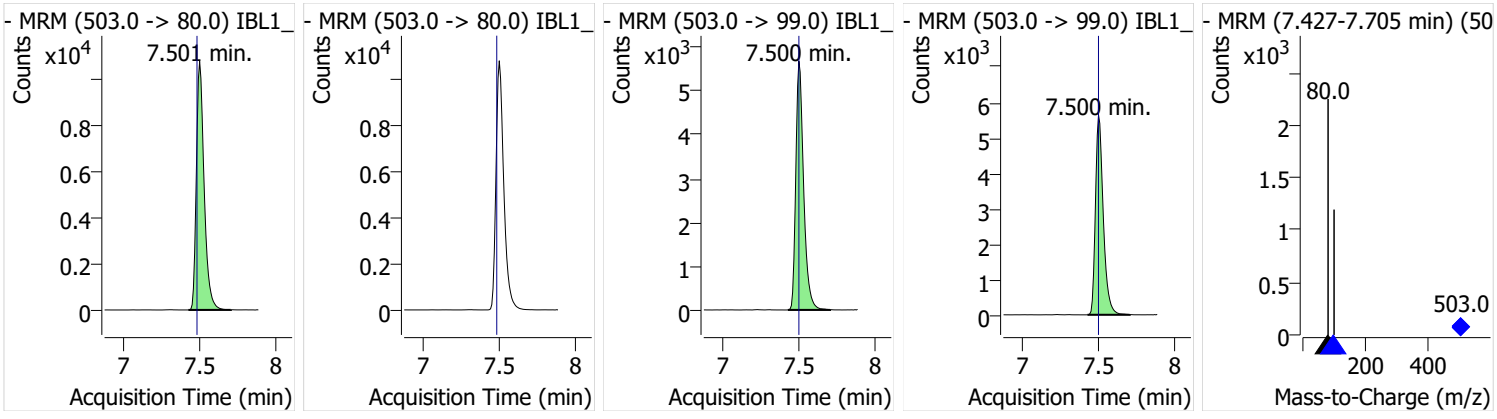


13C4-PFHpA - ISTD

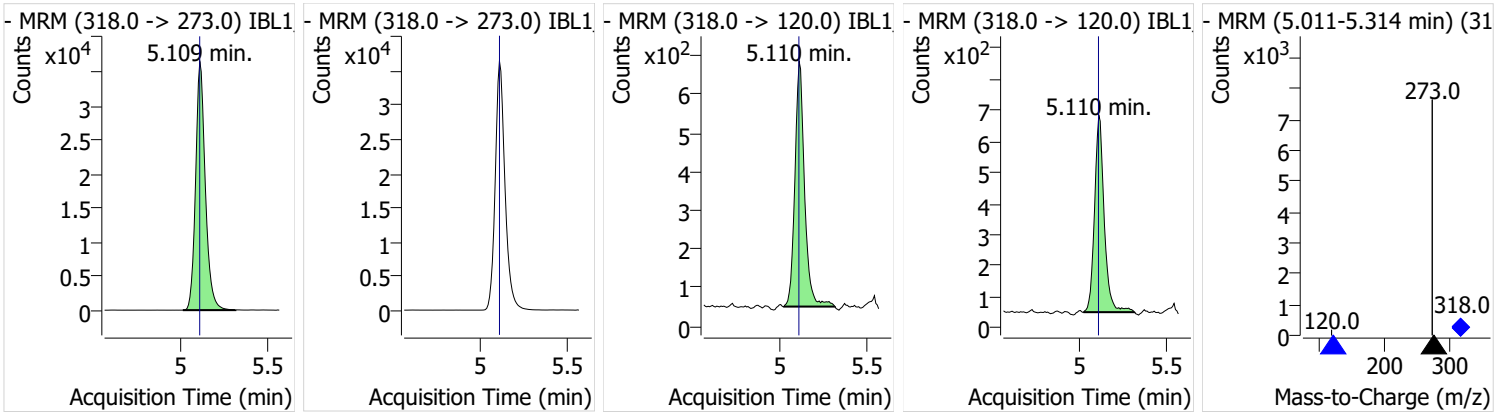
13C4-PFOA



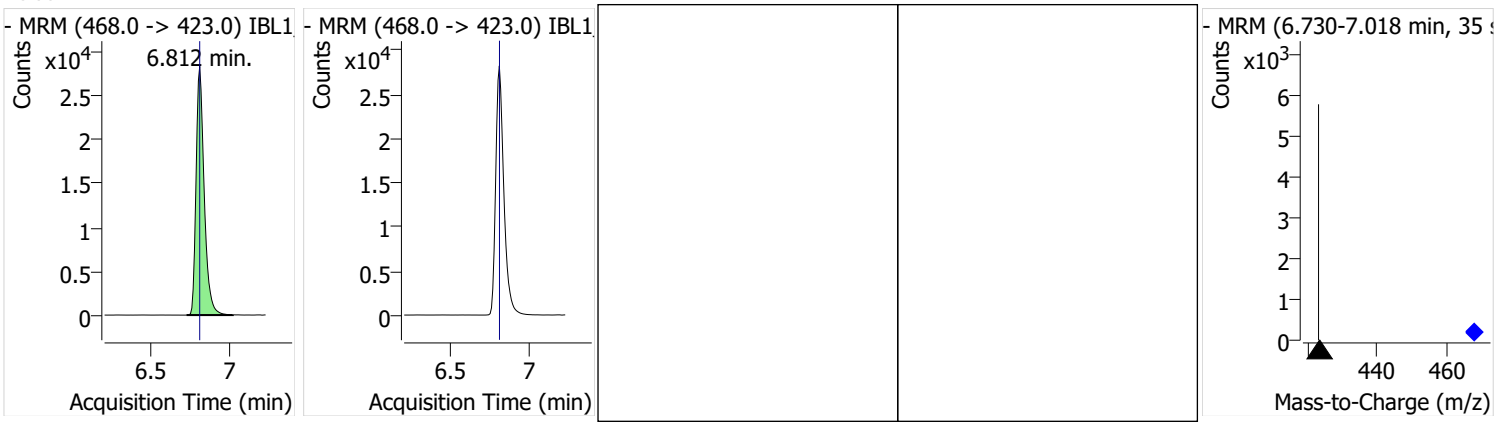
13C4-PFOS



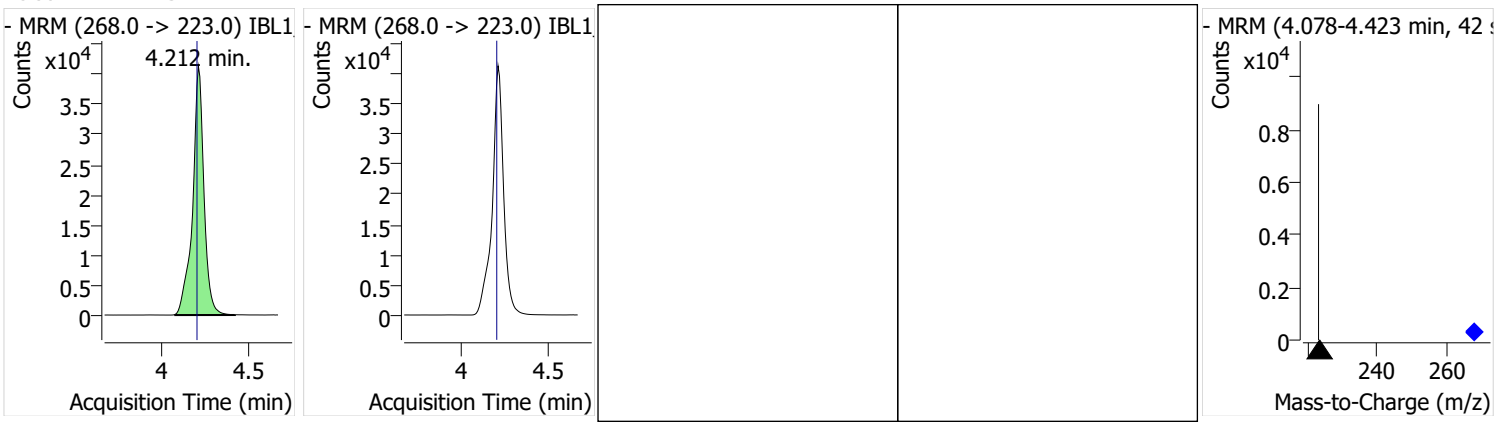
13C5-PFHxA - ISTD



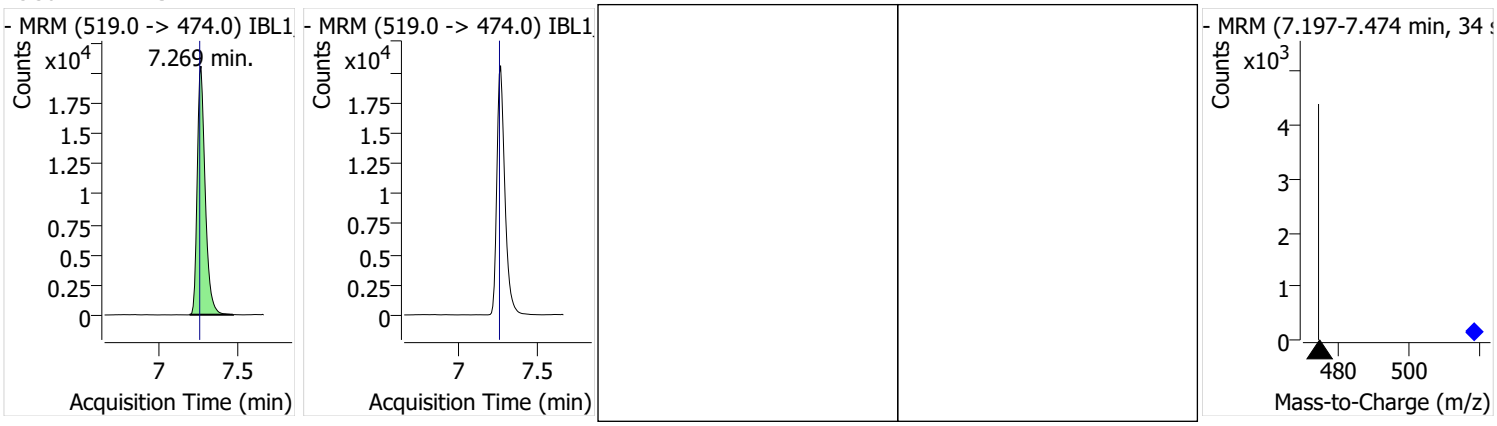
13C5-PFNA



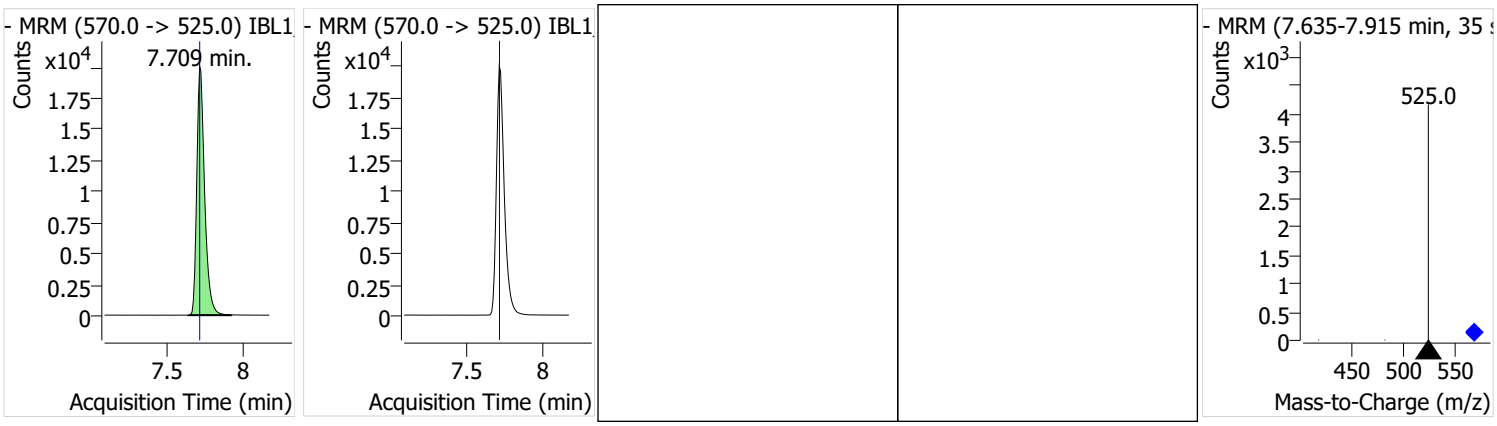
13C5-PFPeA - ISTD



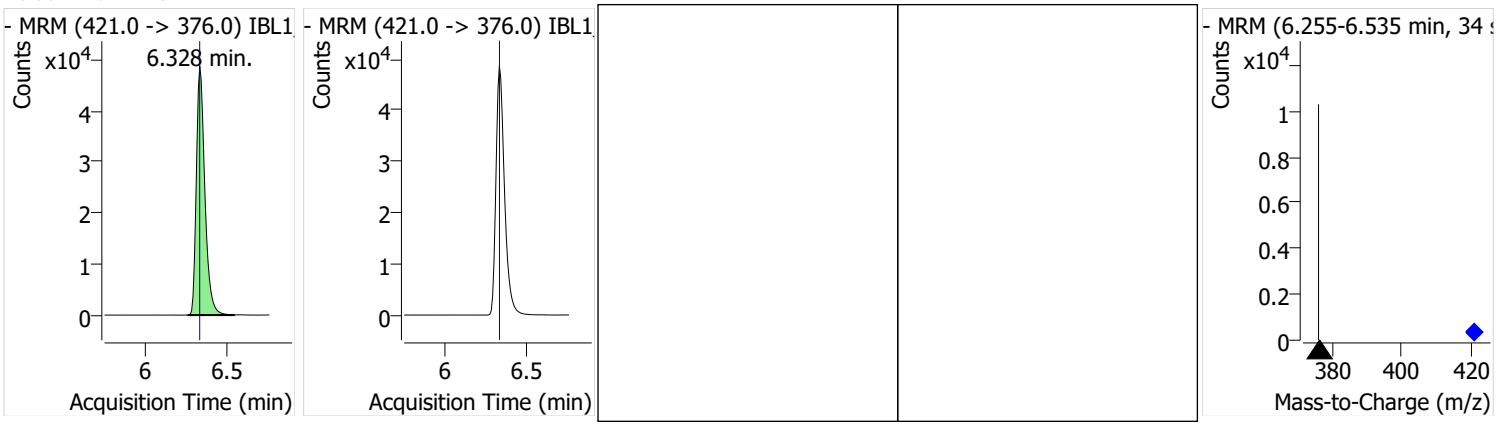
13C6-PFDA - ISTD



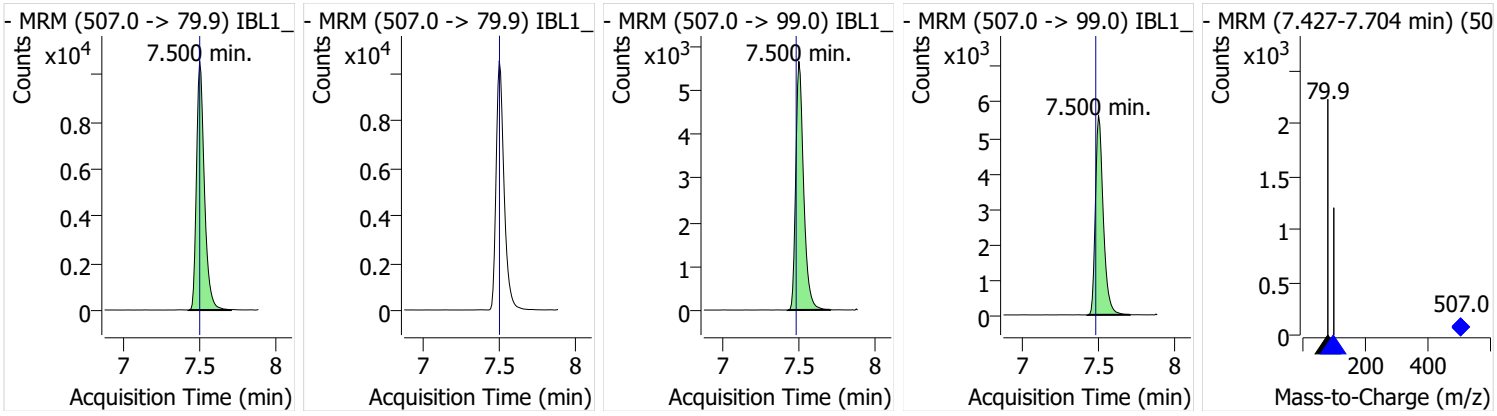
13C7-PFUnA - ISTD



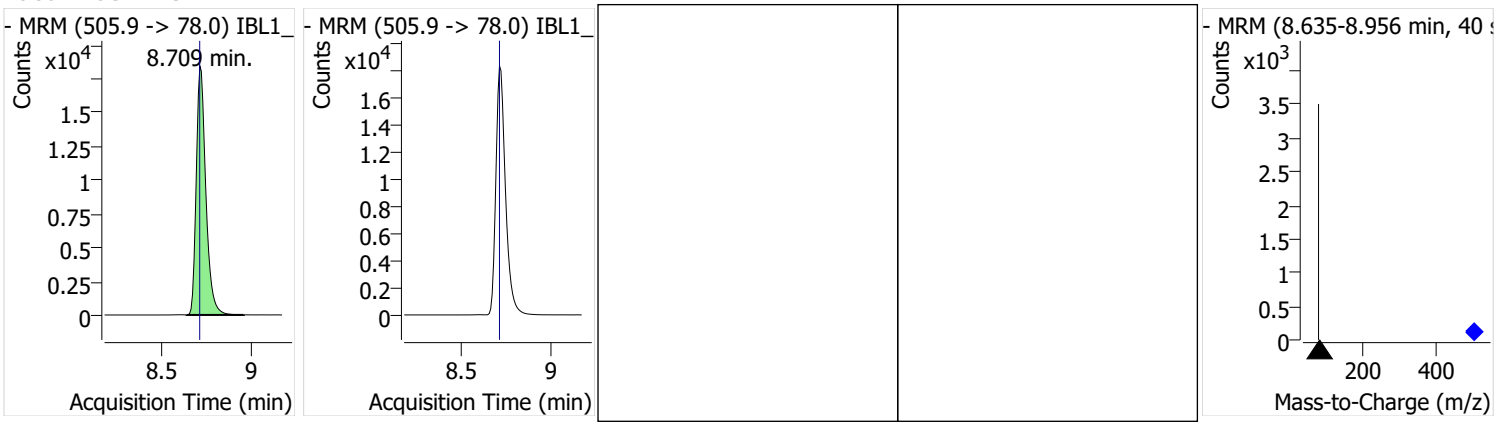
13C8-PFOA - ISTD



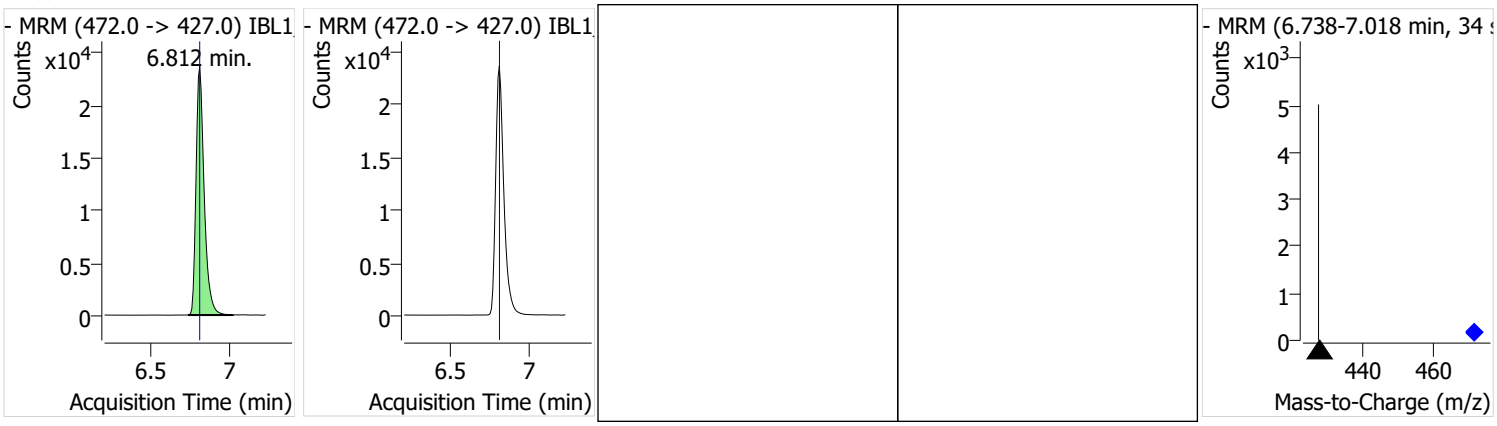
13C8-PFOS - ISTD



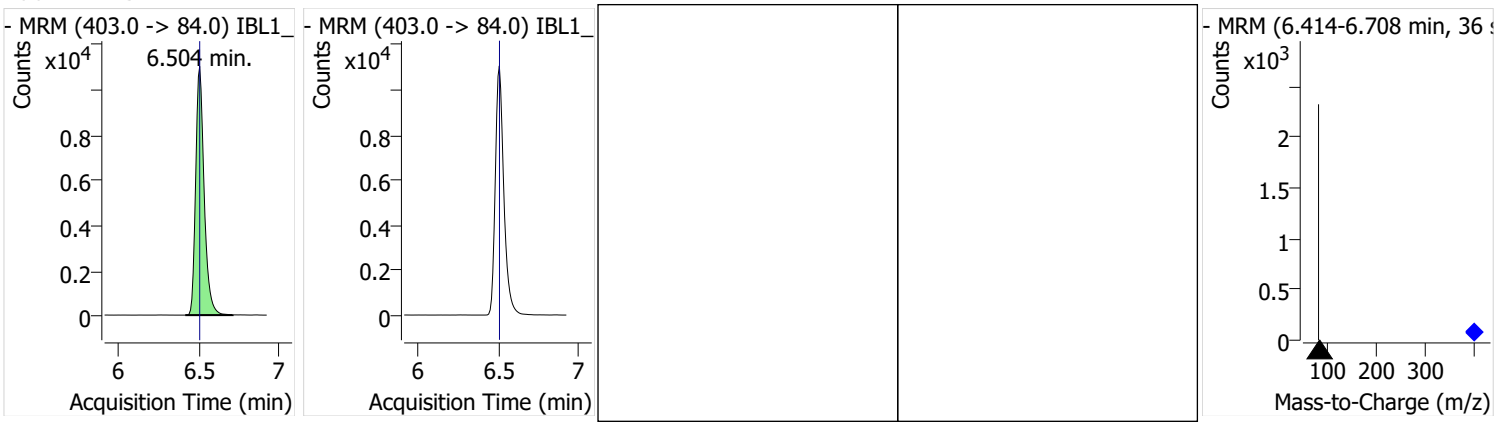
13C8-PFOSA - ISTD



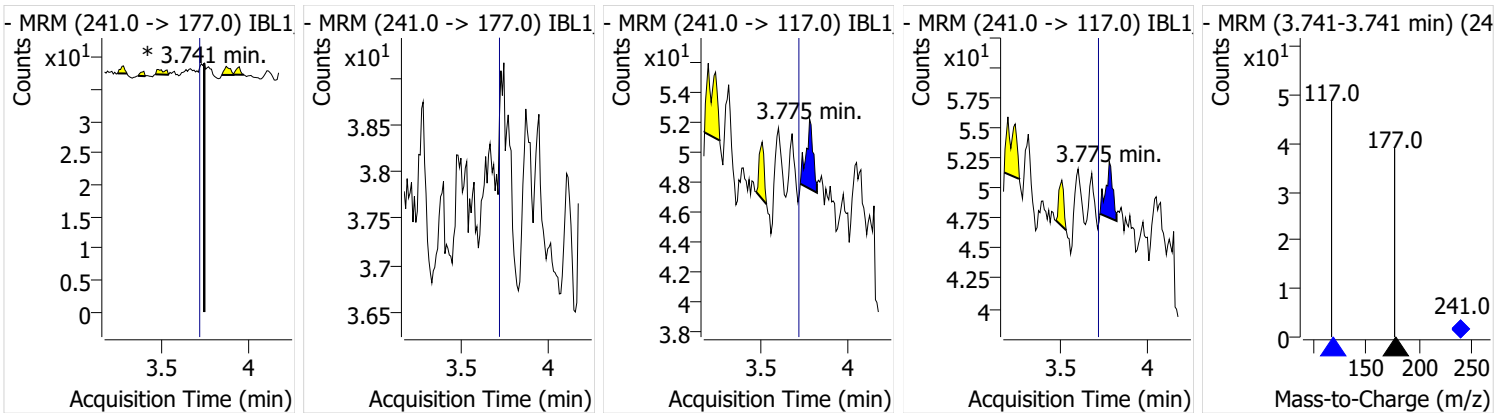
13C9-PFNA - ISTD



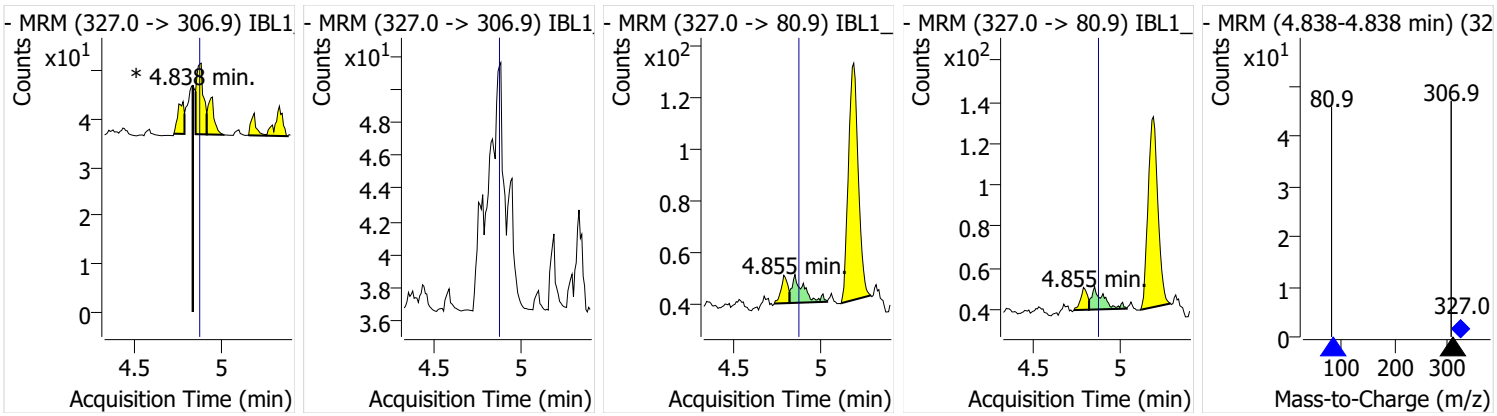
18O2-PFHxS



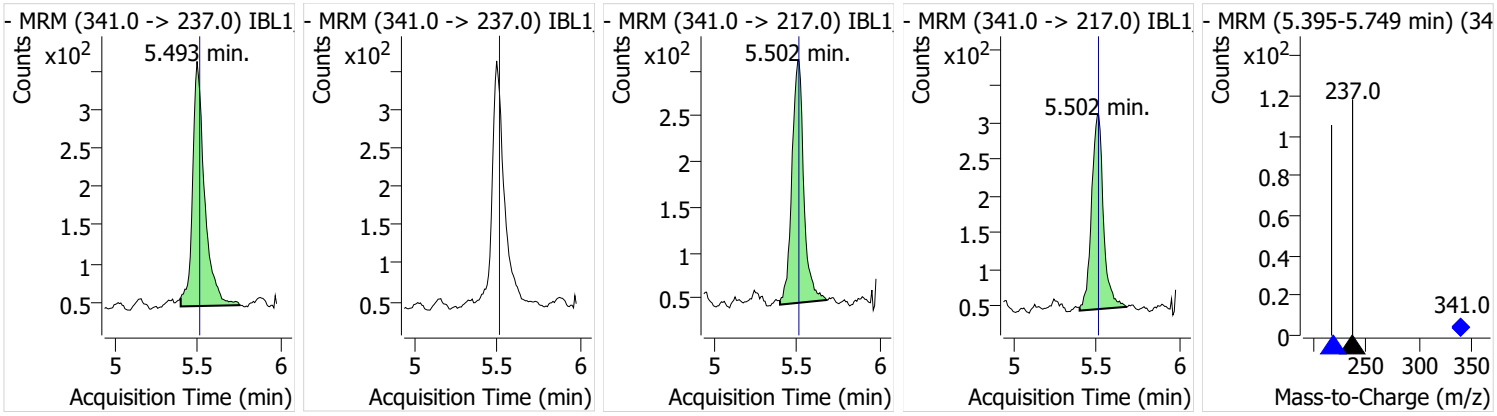
3:3FTCA



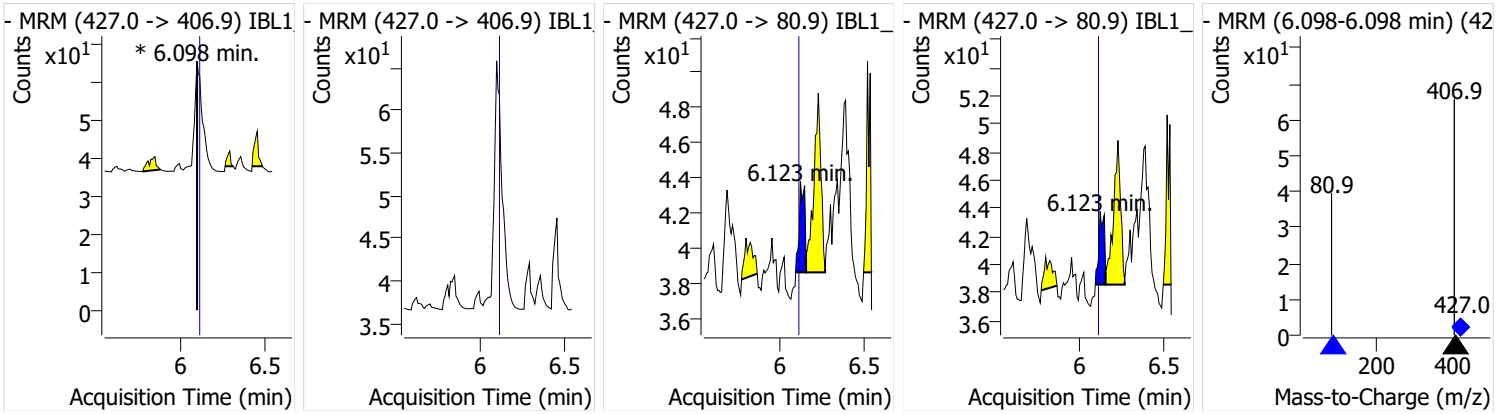
4:2FTS



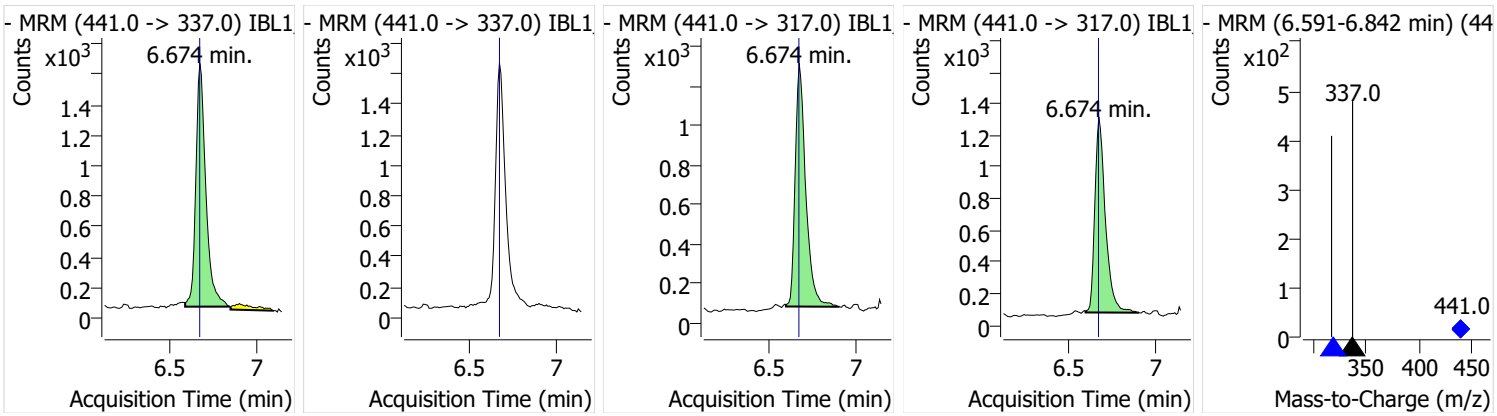
5:3FTCA



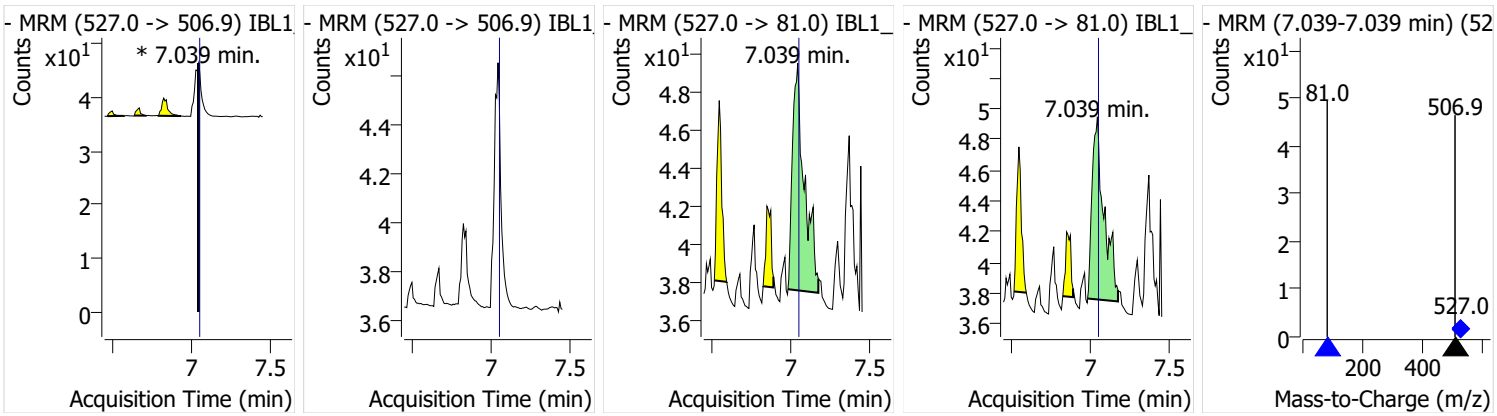
6:2FTS



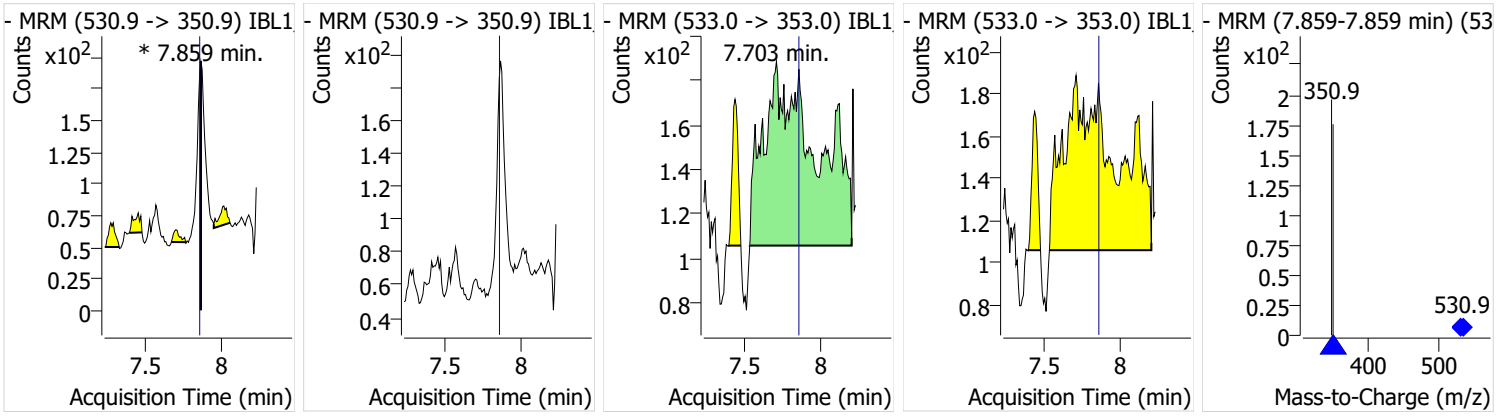
7:3FTCA



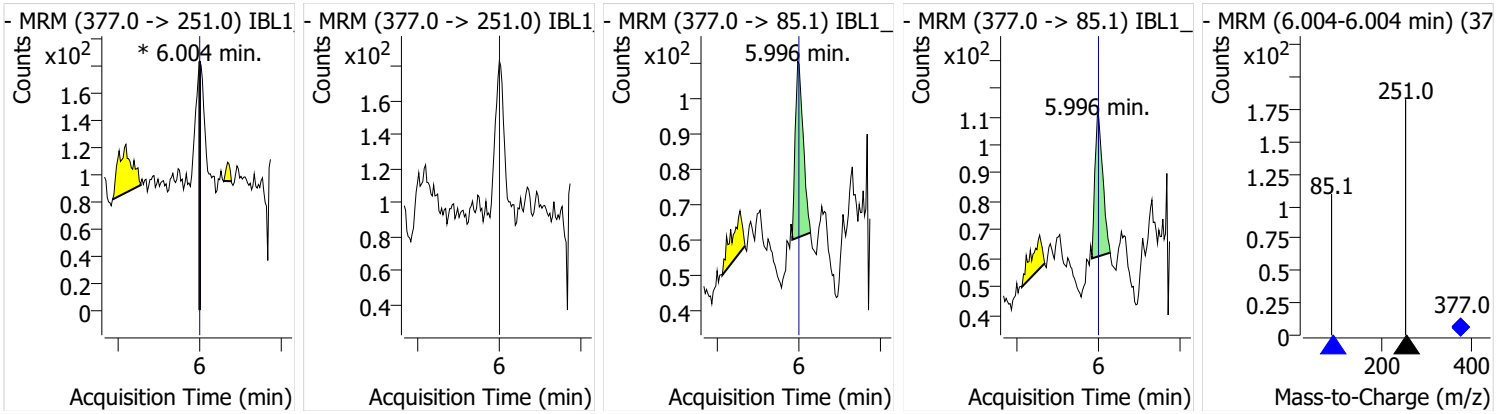
8:2FTS



9Cl-PF3ONS



ADONA



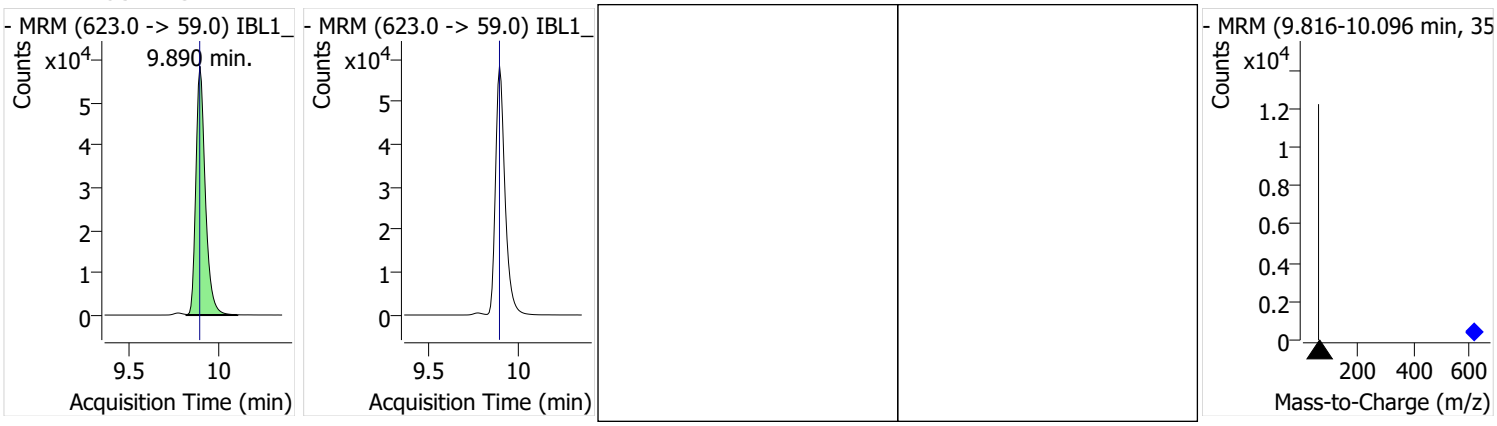
D3-NMeFOSA - ISTD

D3-NMeFOSAA - ISTD

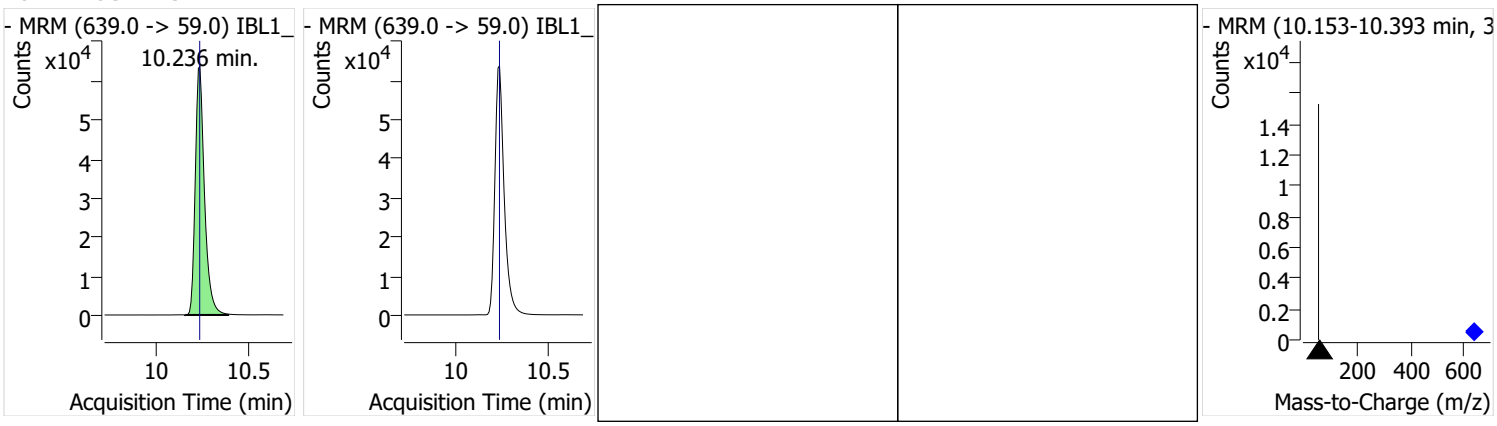
D5-NEtFOSA - ISTD

D5-NEtFOSAA - ISTD

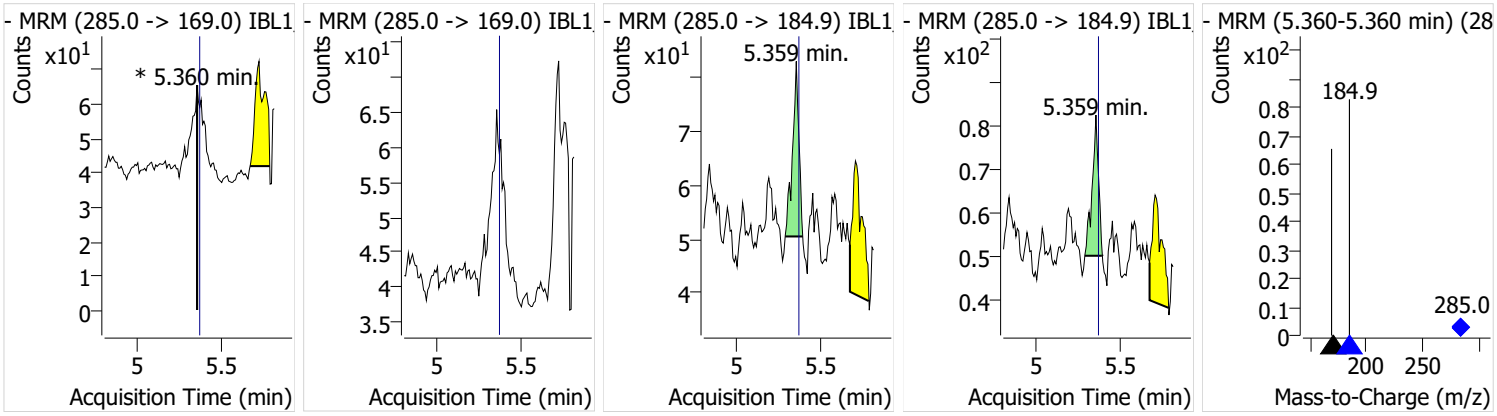
D7-NMeFOSE - ISTD



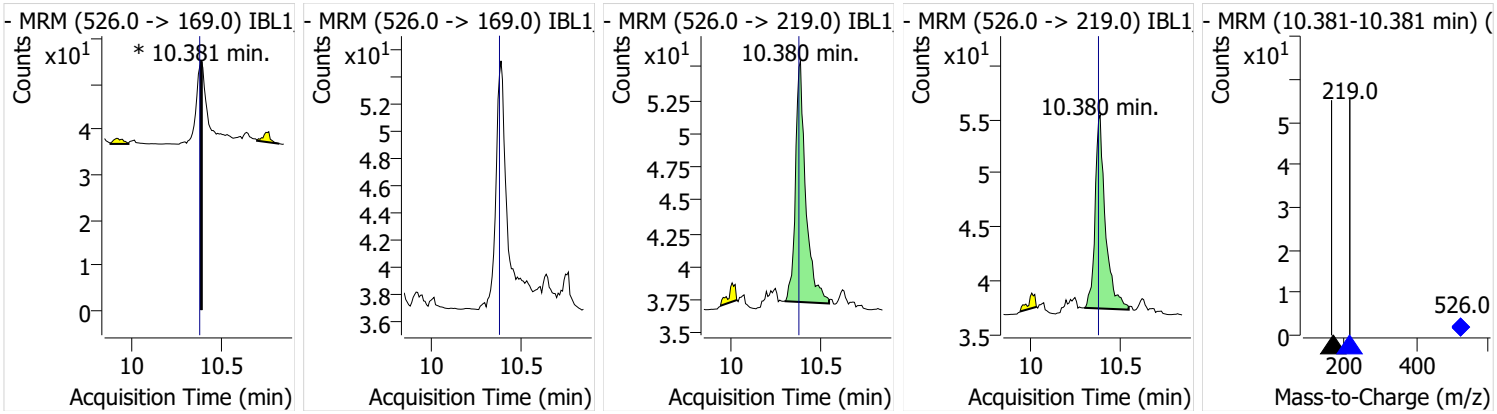
D9-NEtFOSE - ISTD



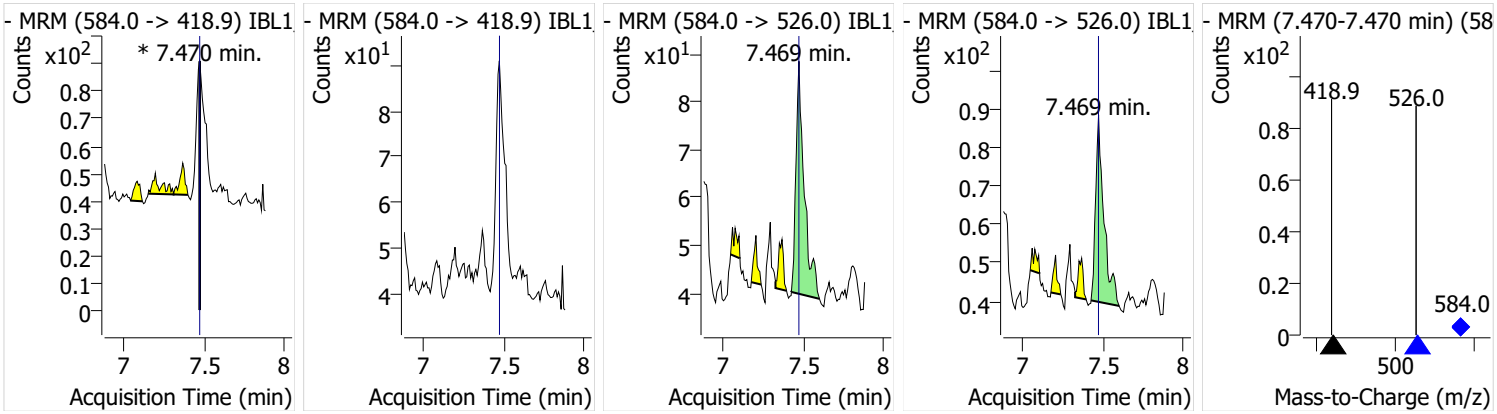
HFPO-DA



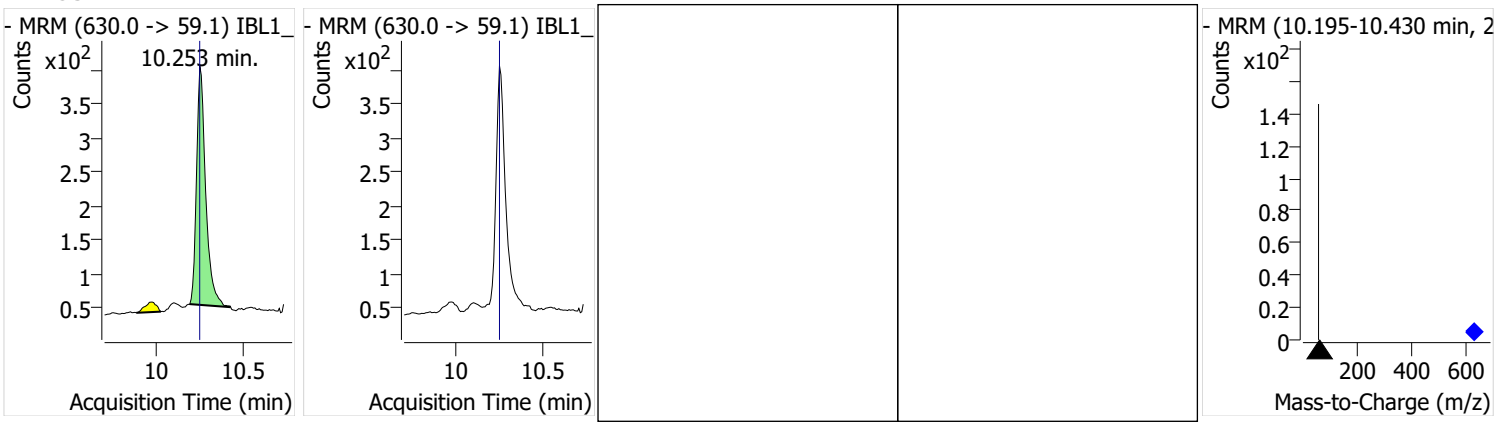
NEtFOSA



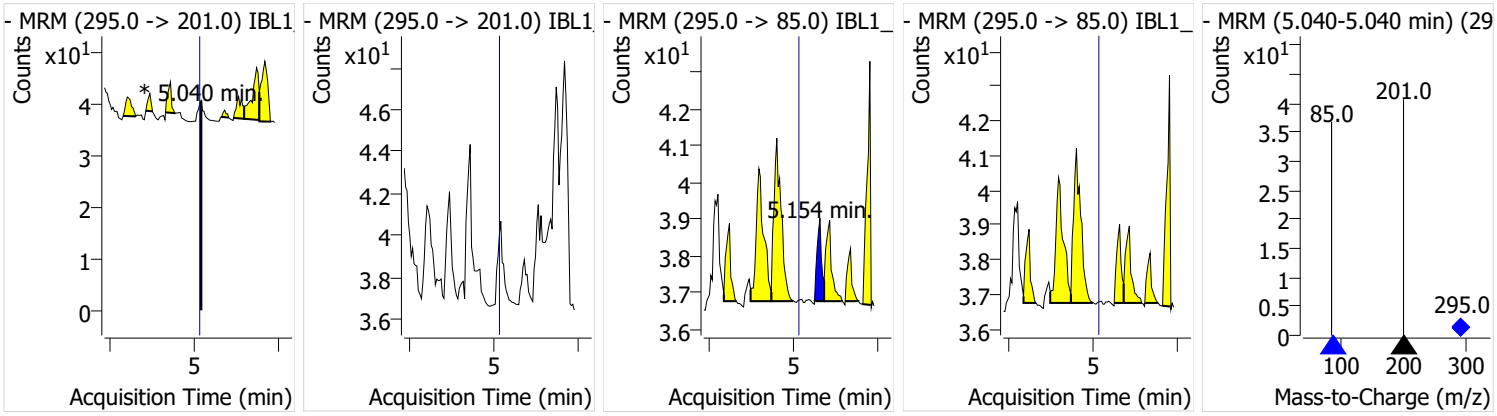
NEtFOSAA



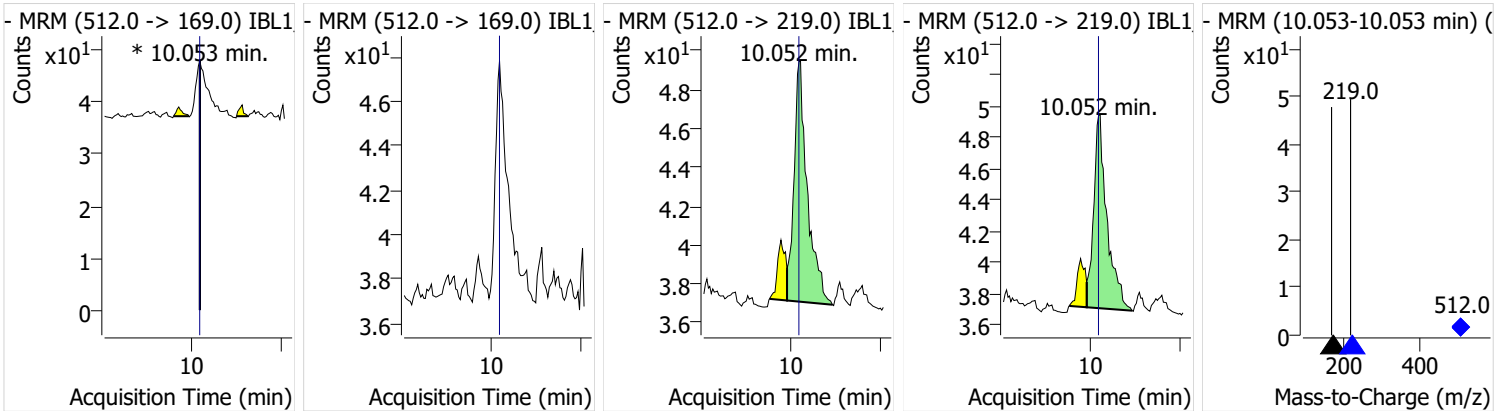
NEtFOSE



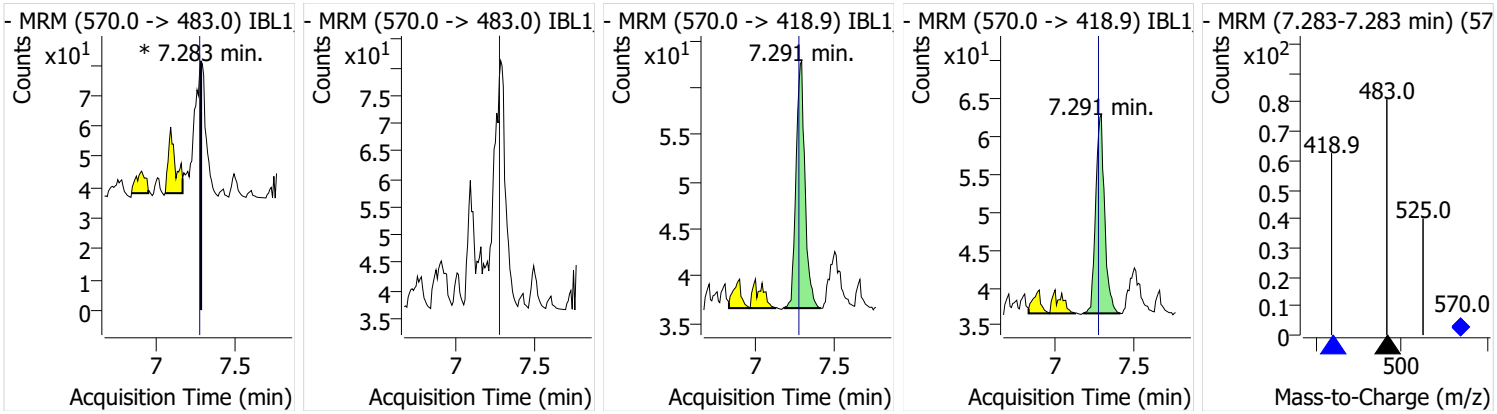
NFDHA



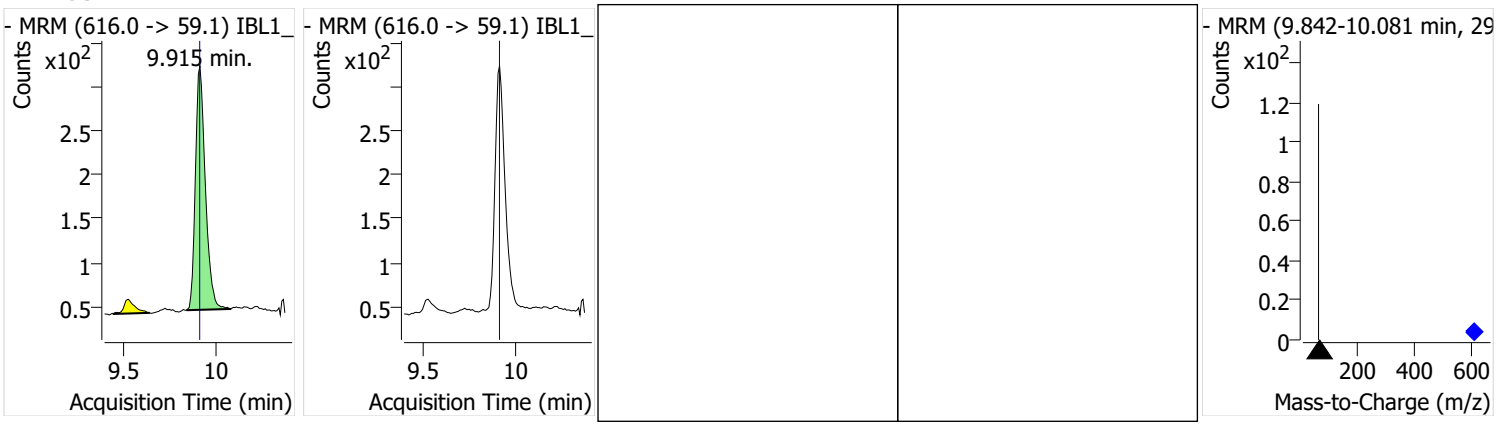
NMeFOSA



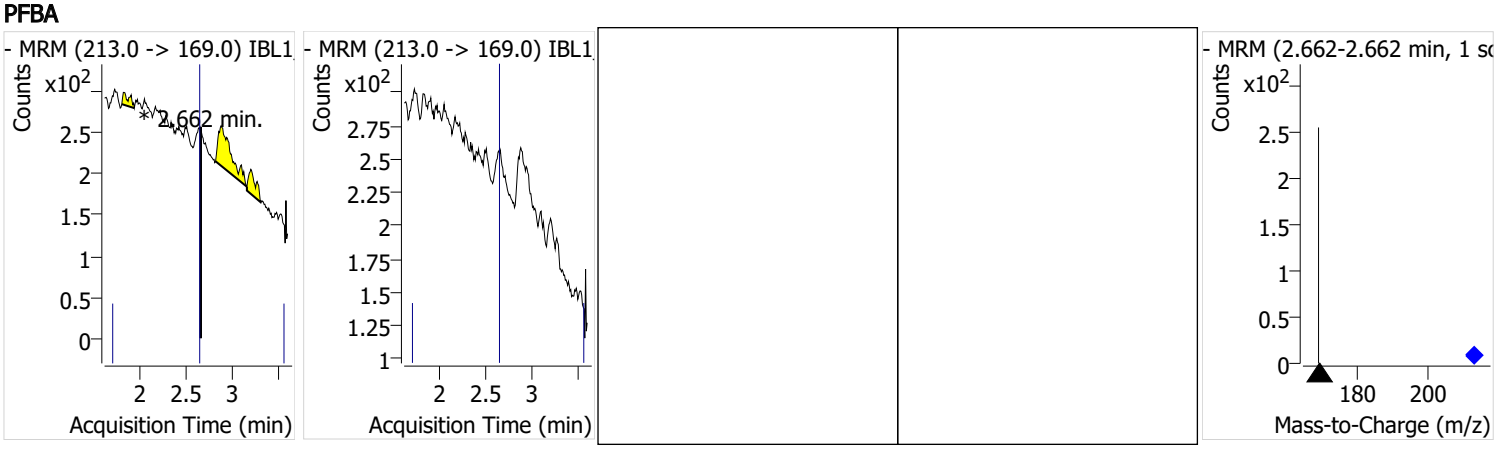
NMeFOSAA



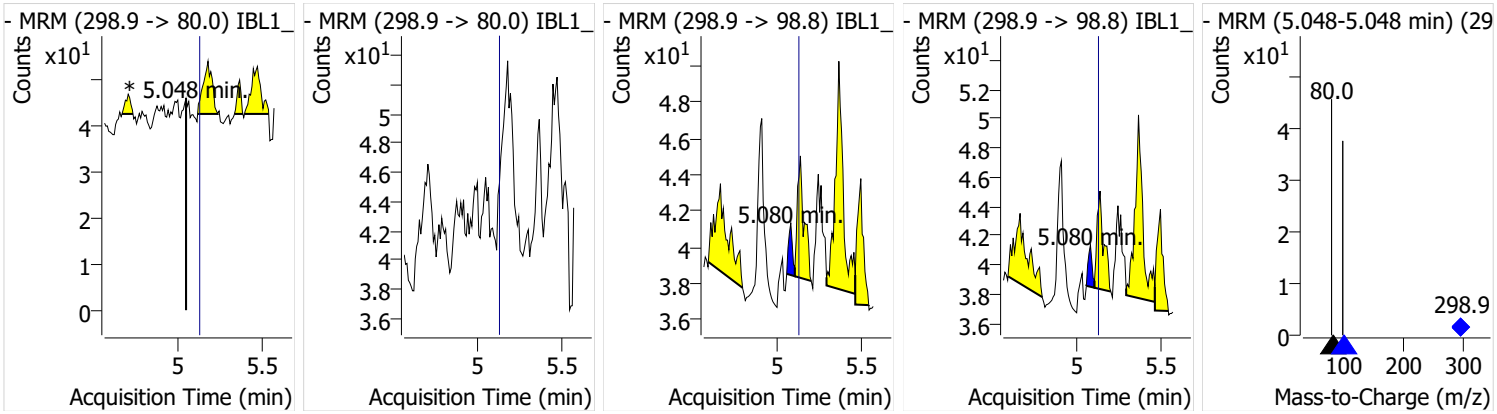
NMeFOSE



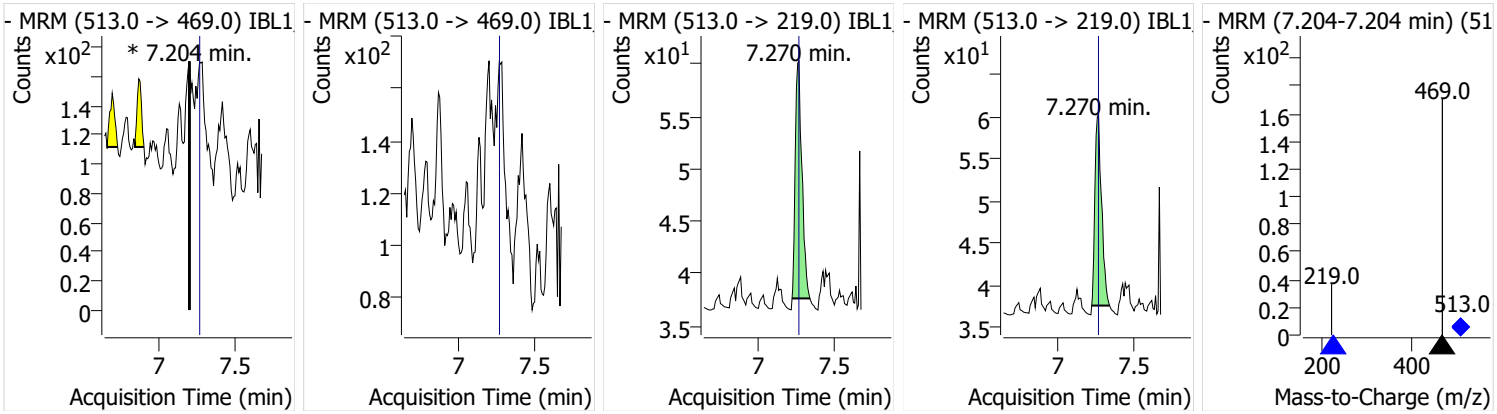
PFBA



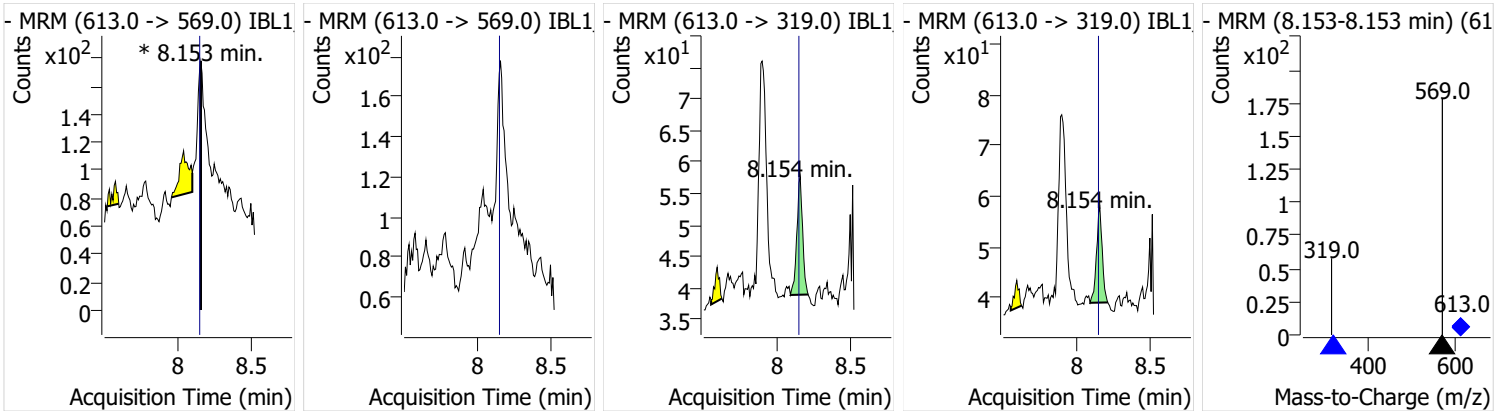
PFBS



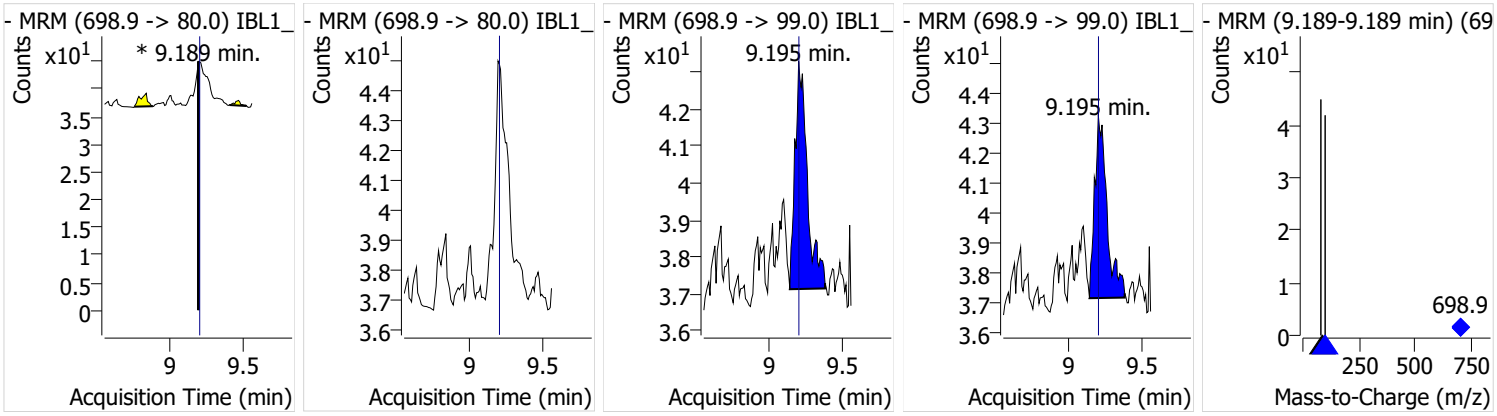
PFDA



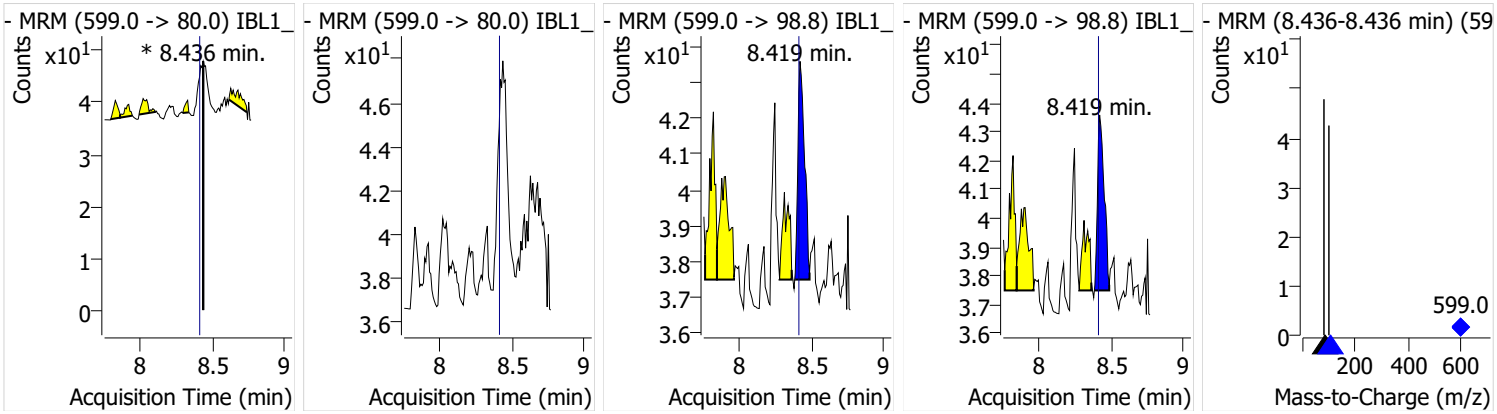
PFDoA



PFDoS



PFDS



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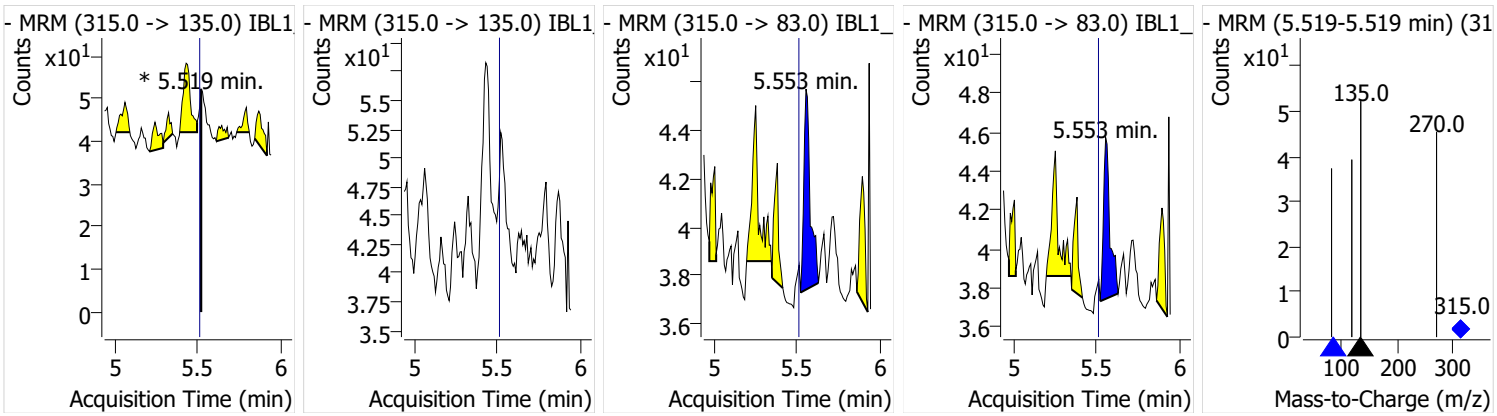

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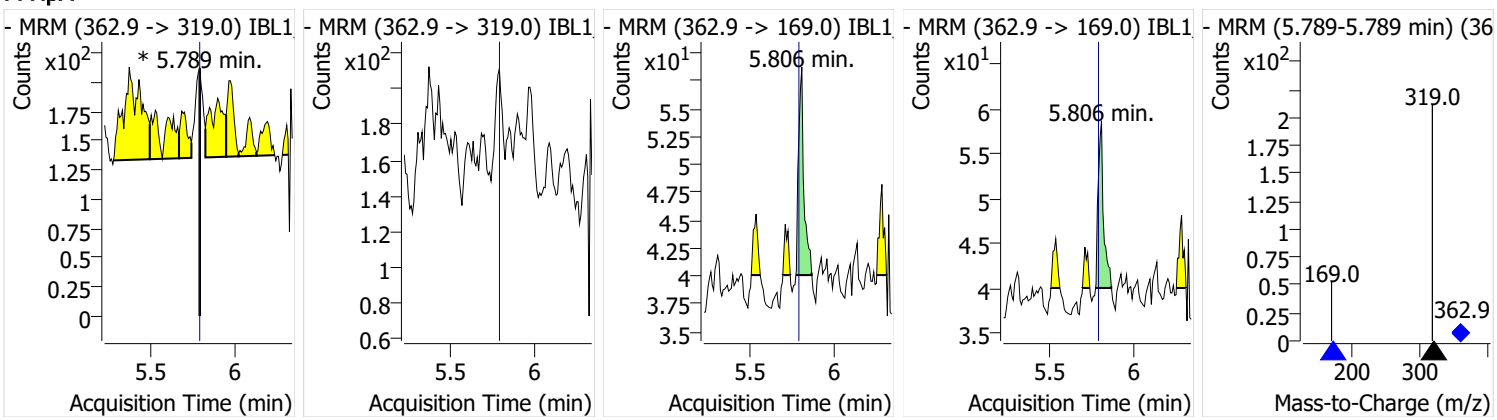

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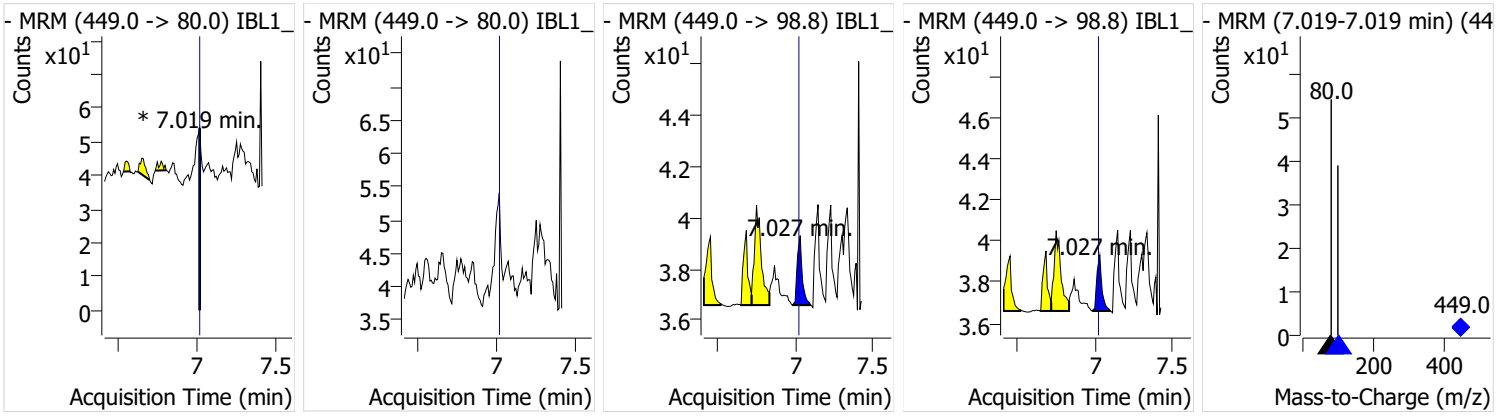
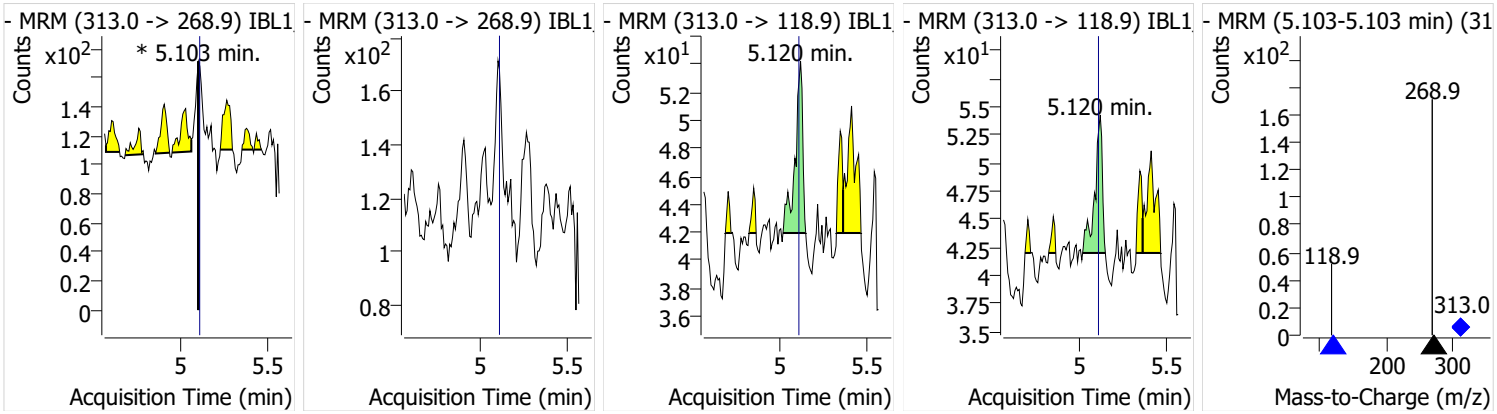
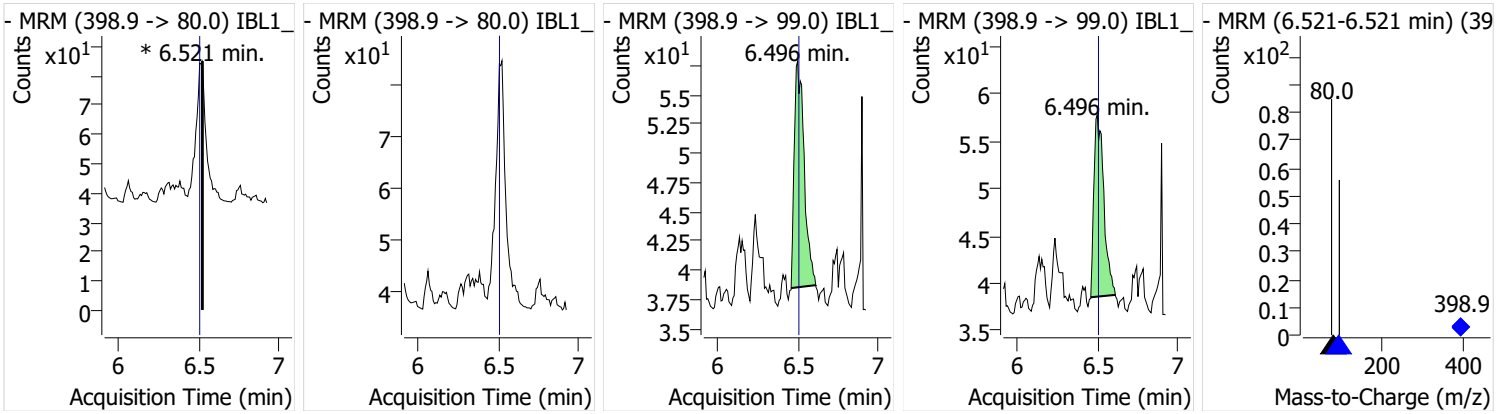


PFHxA



PFHxS



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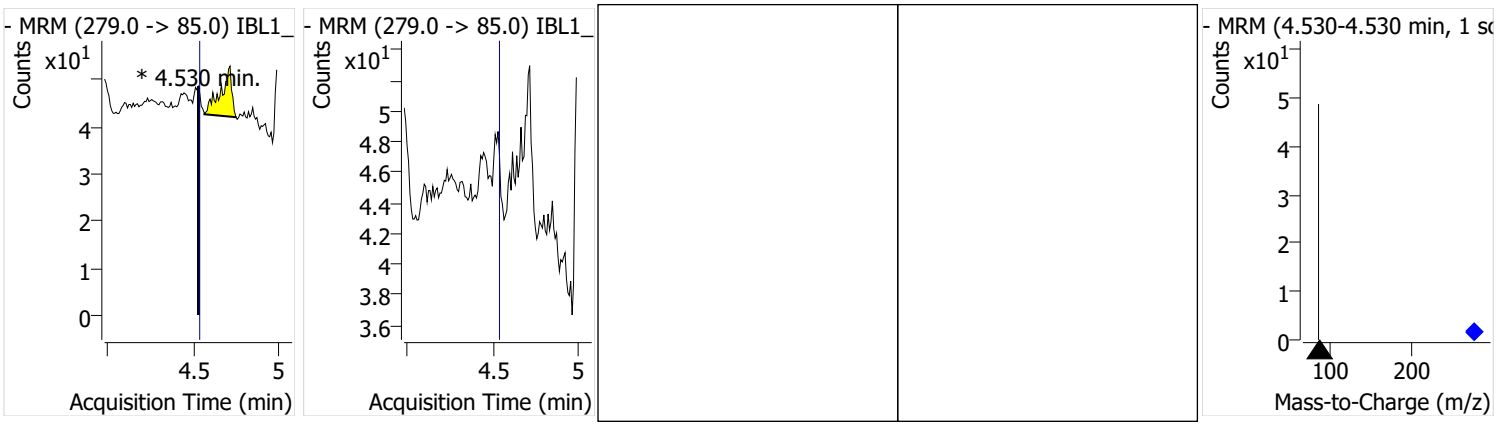

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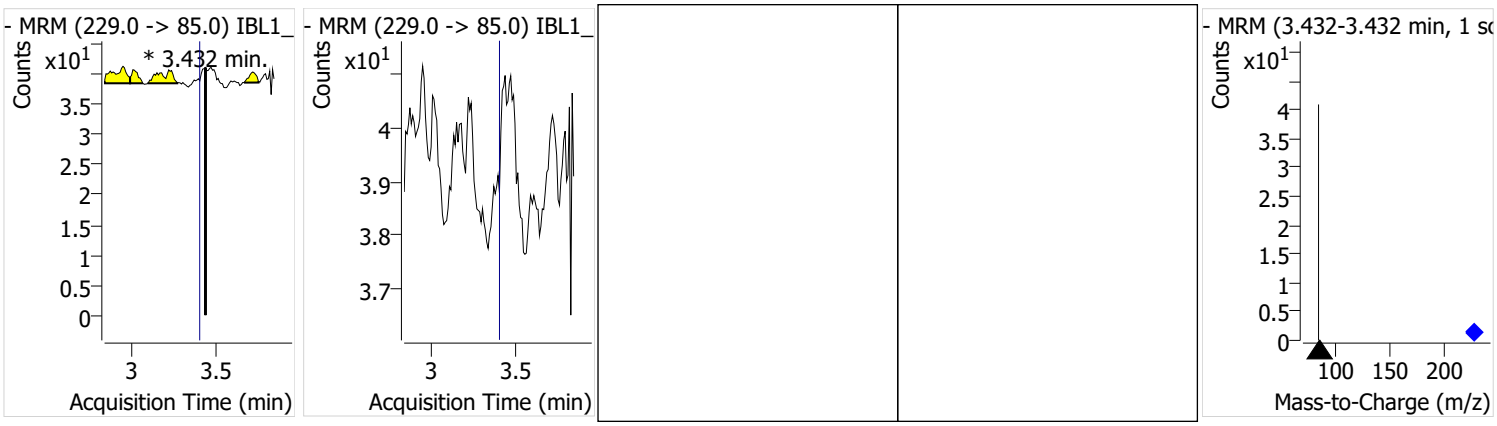

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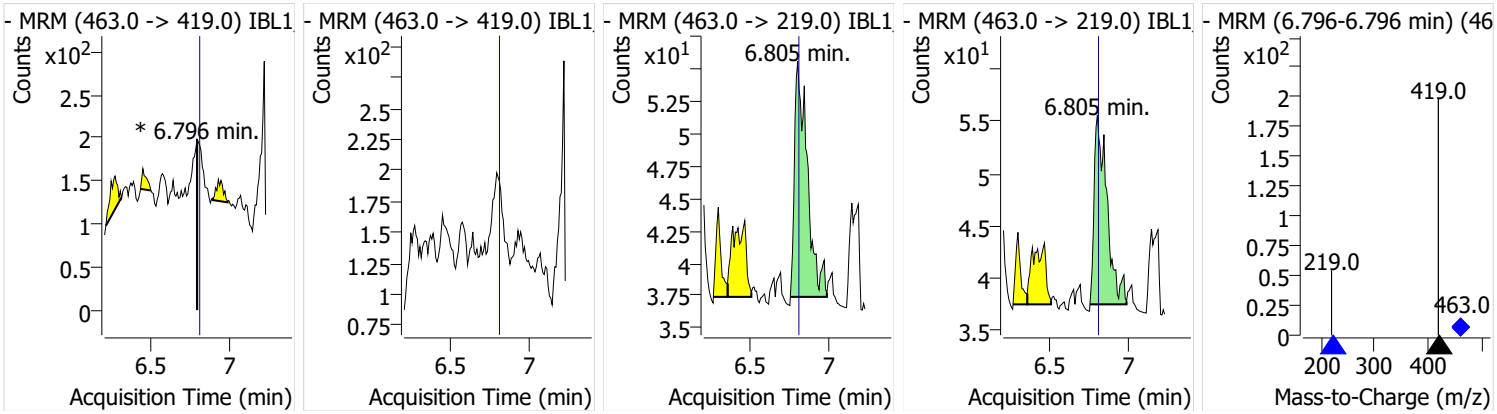

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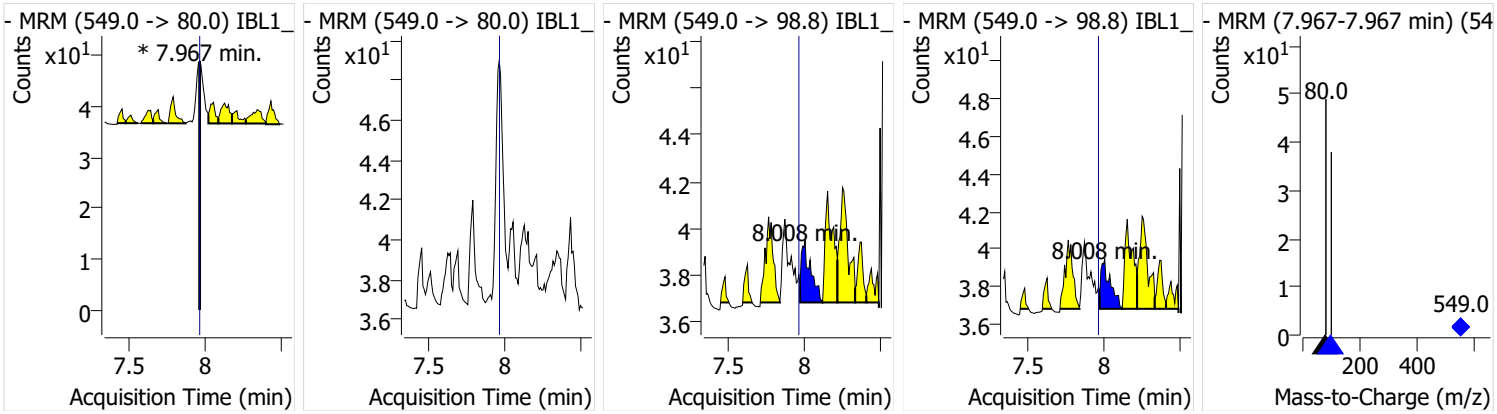

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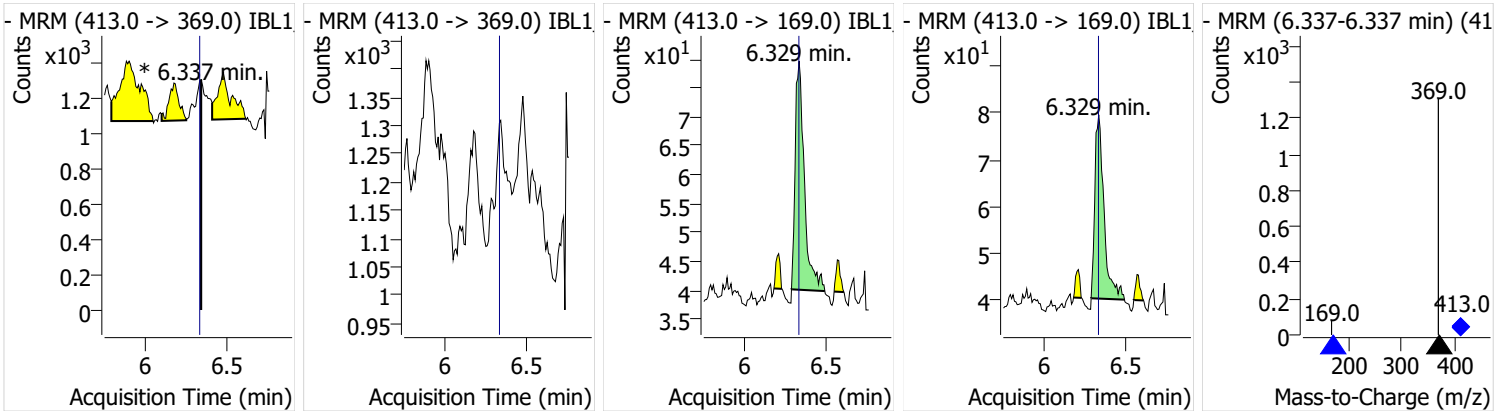

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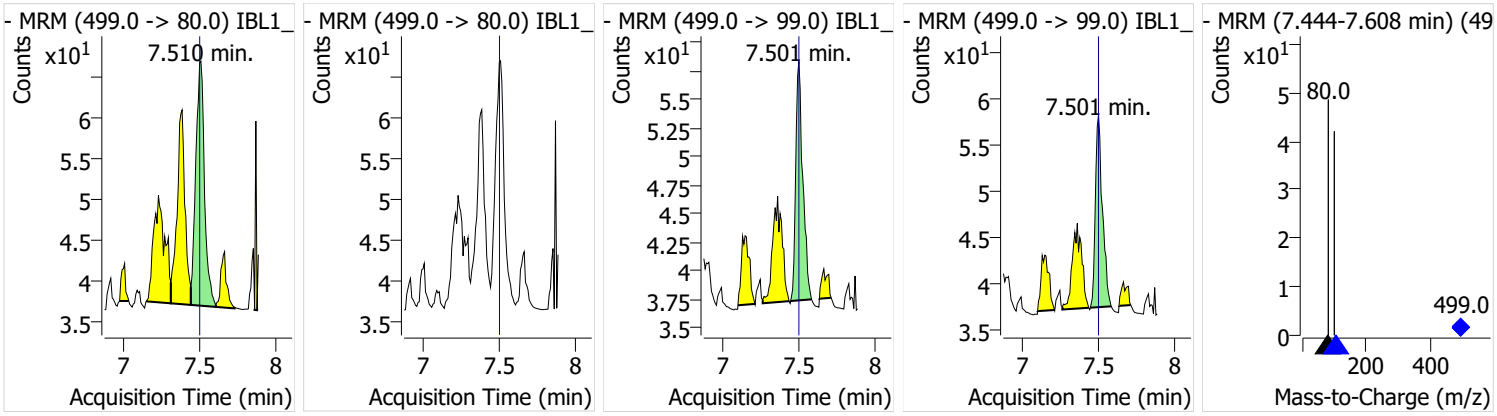

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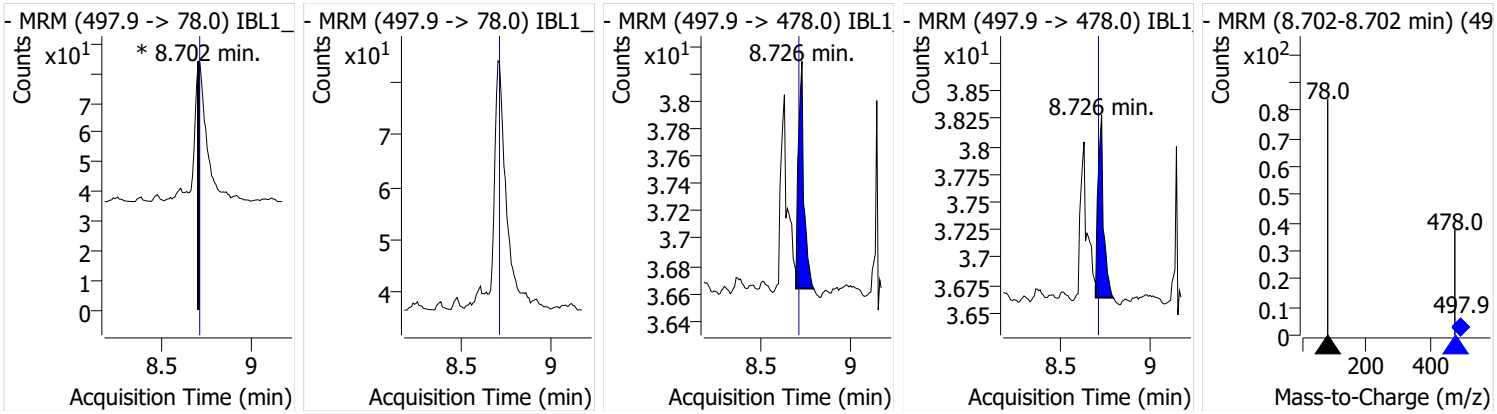
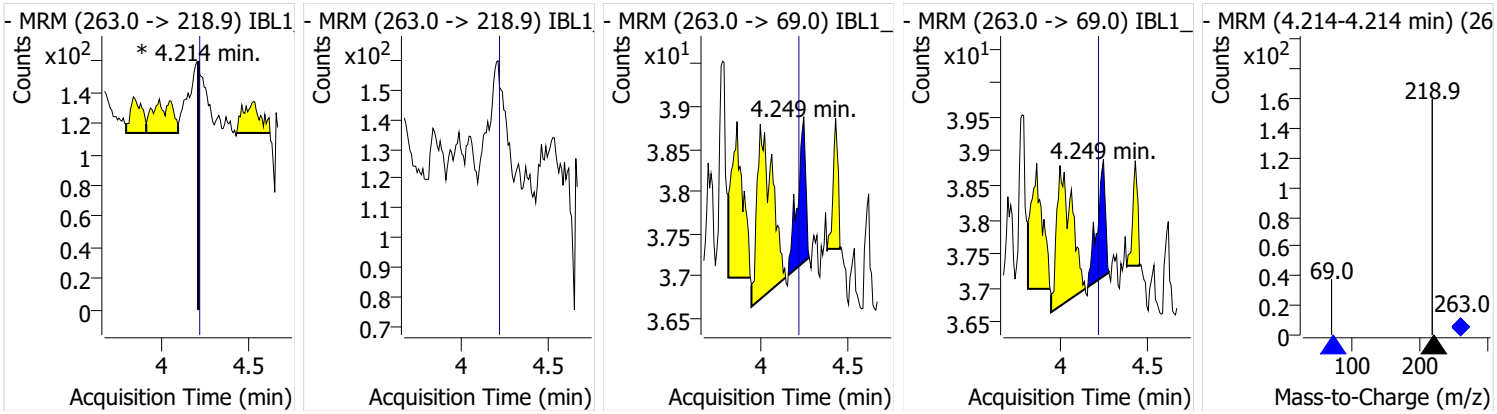


PFPeA



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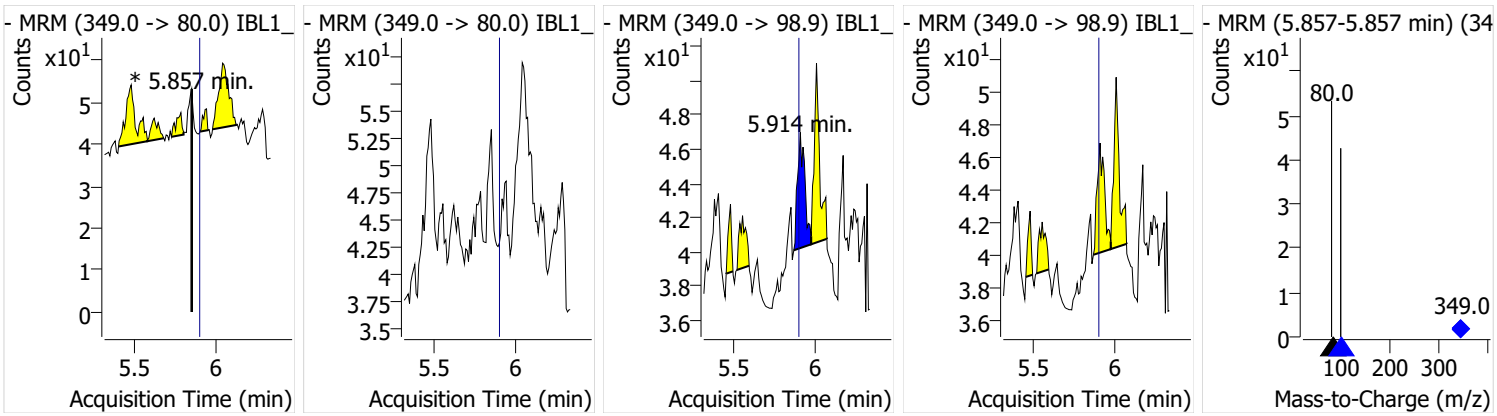

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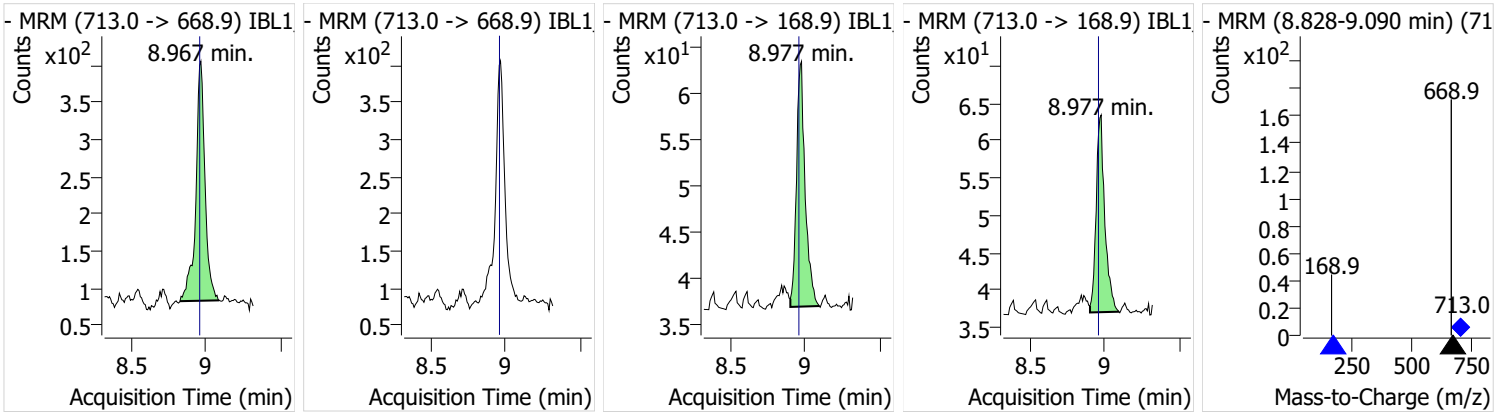
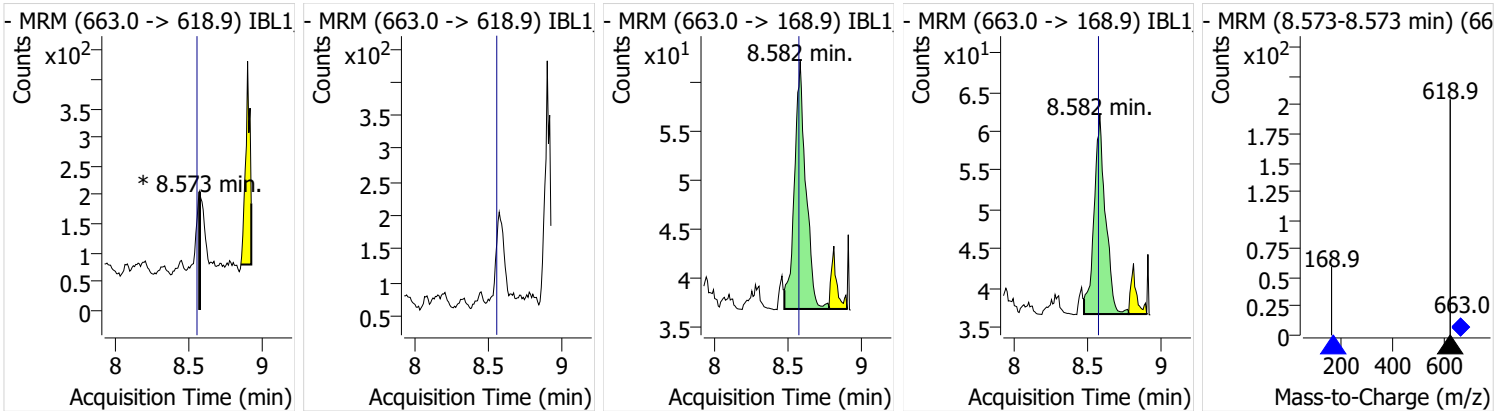


PFTrDA



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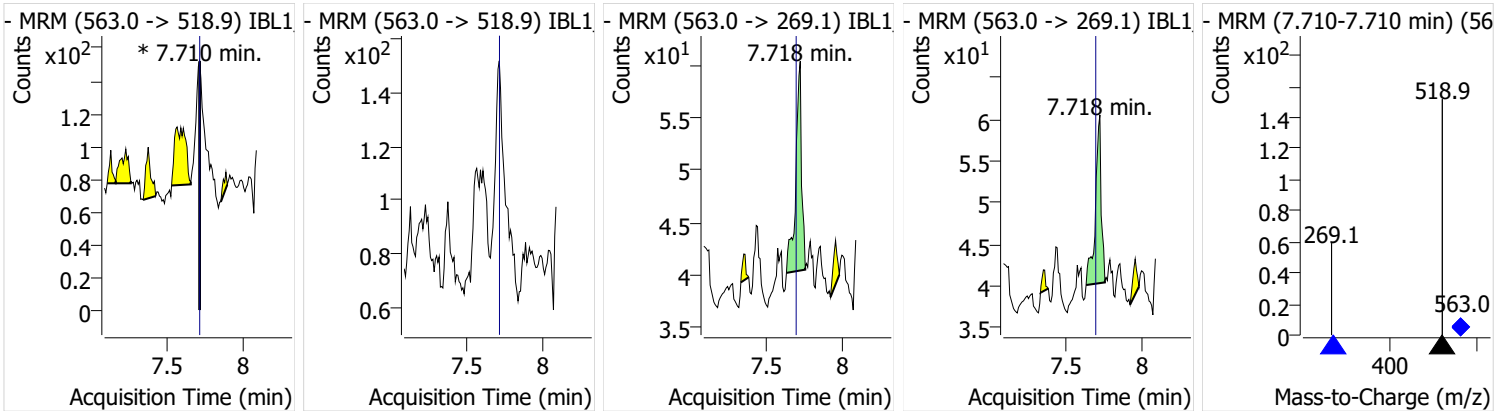

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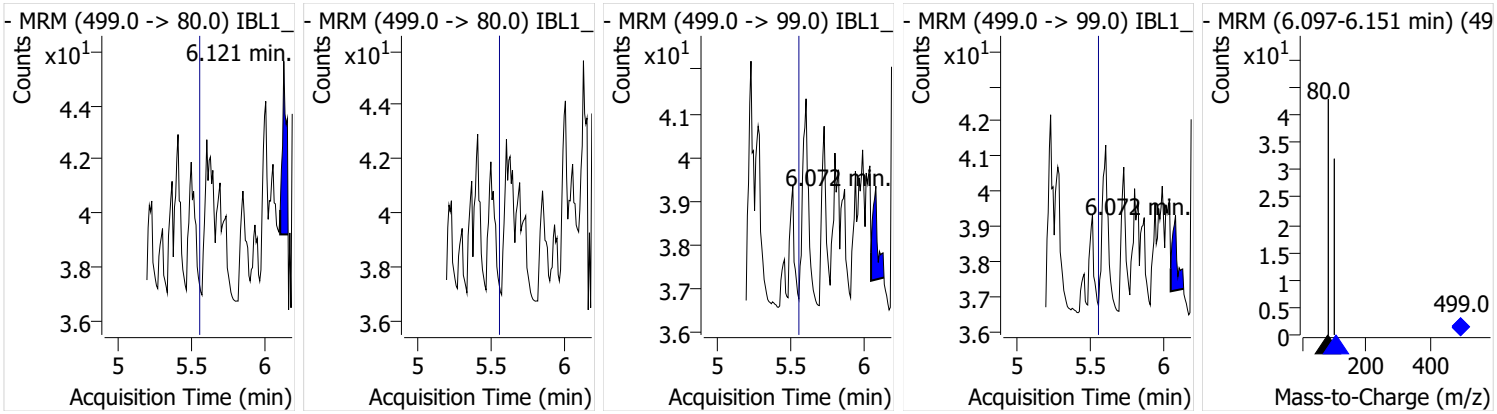

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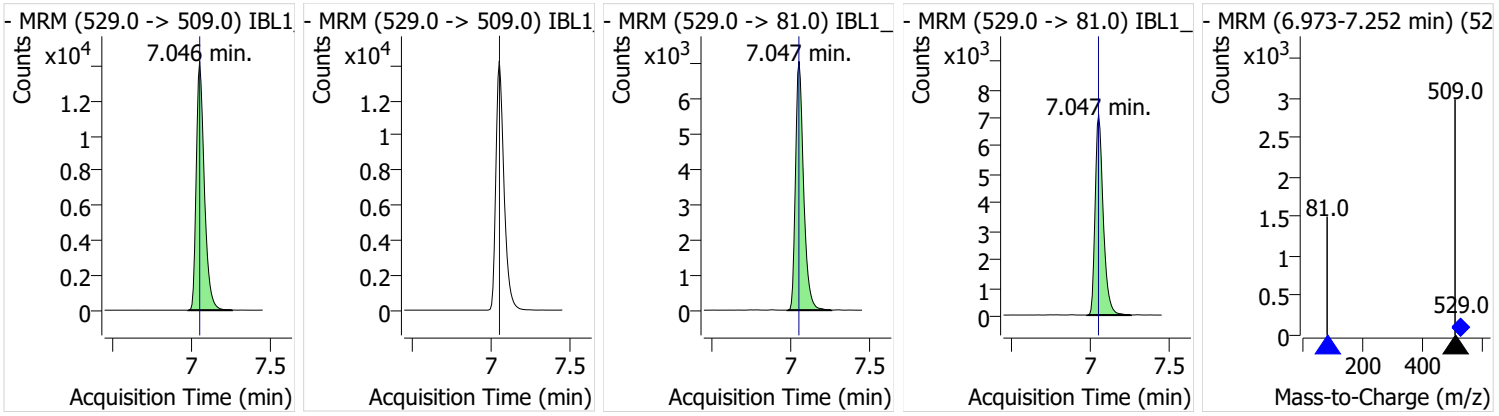

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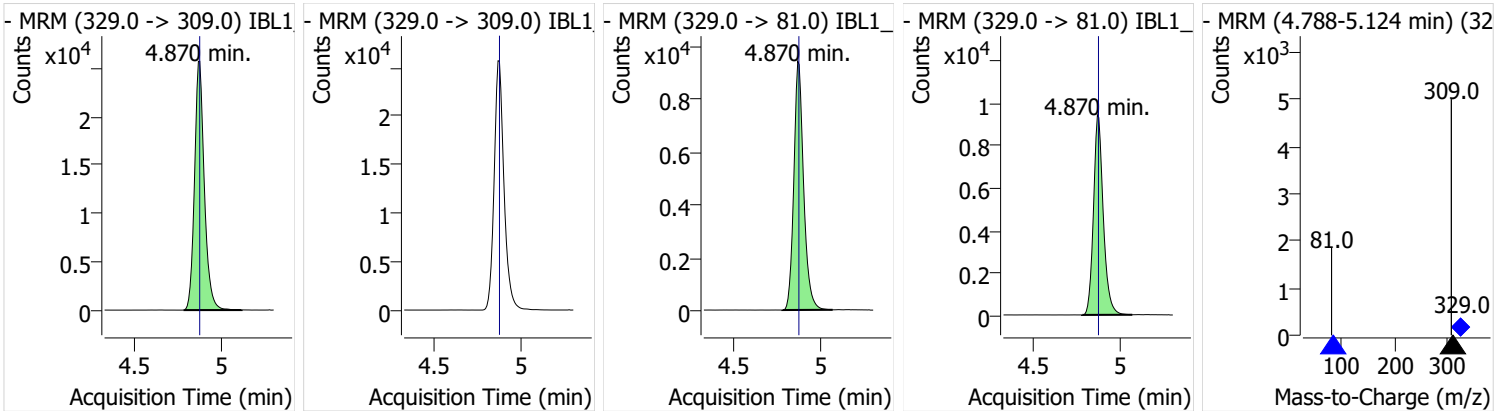

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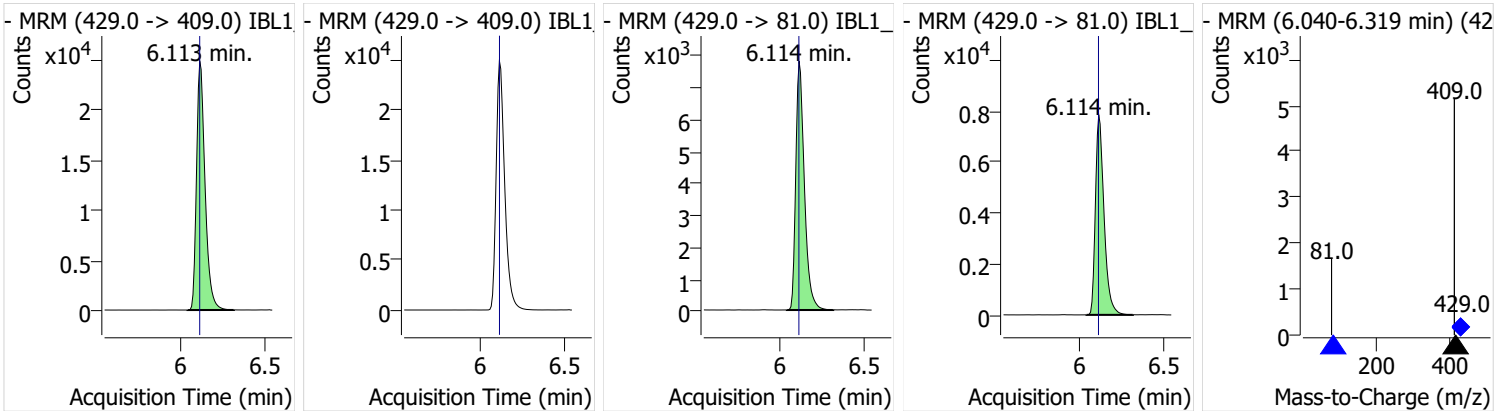

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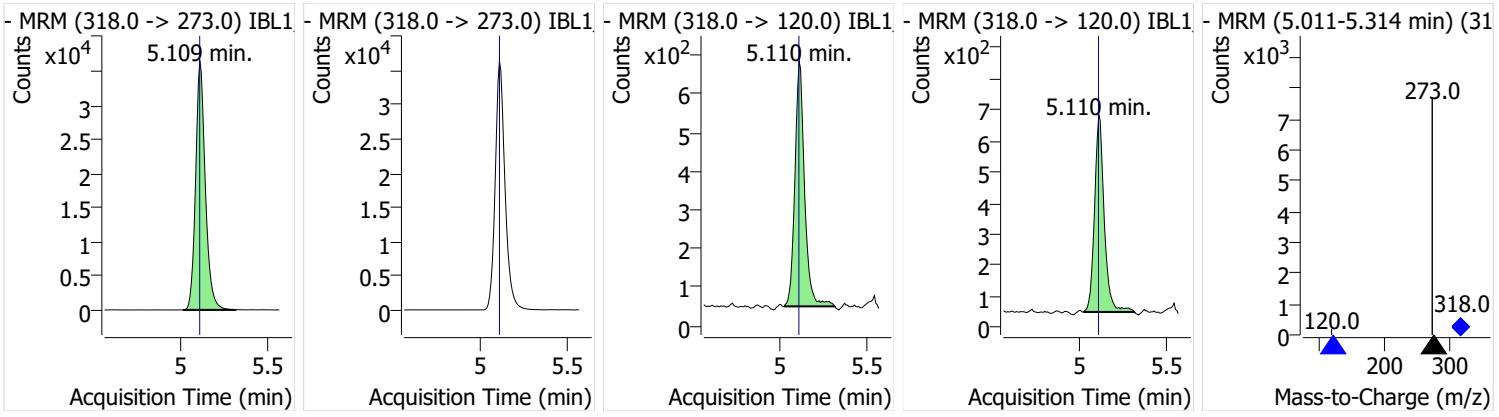

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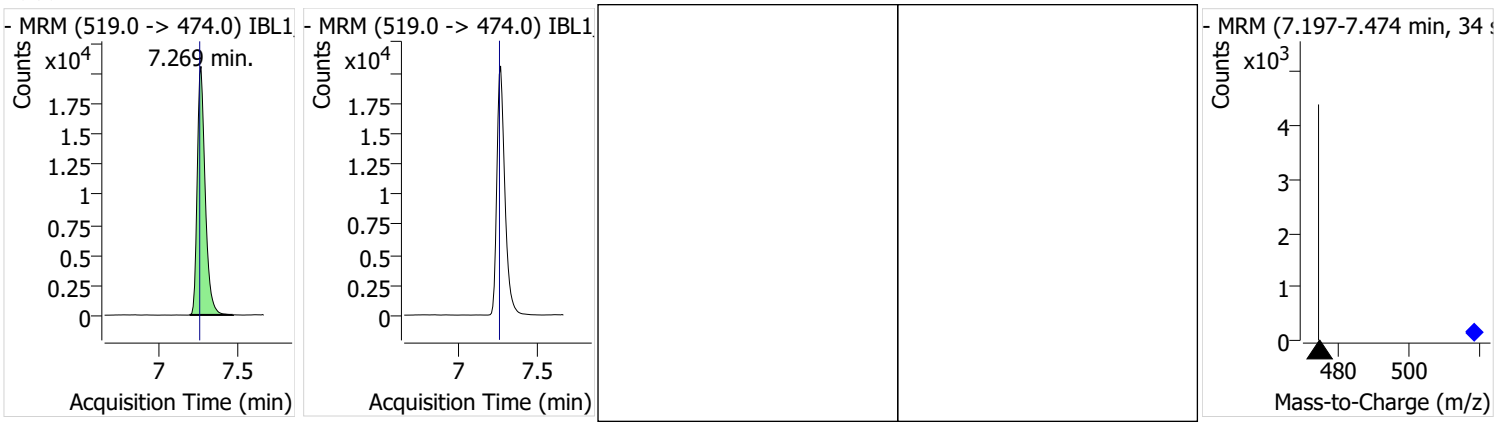

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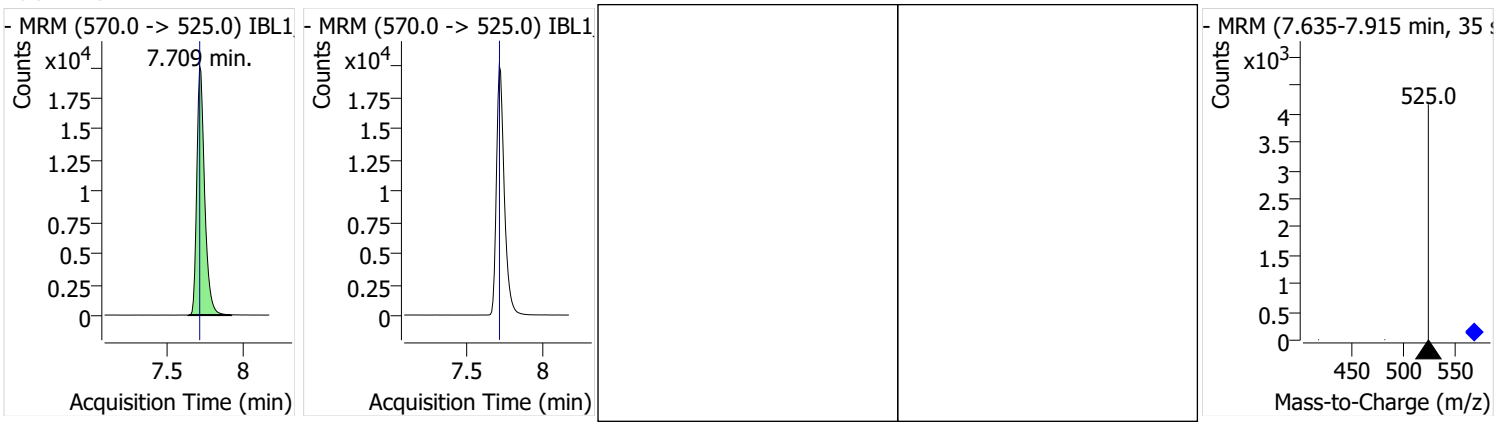

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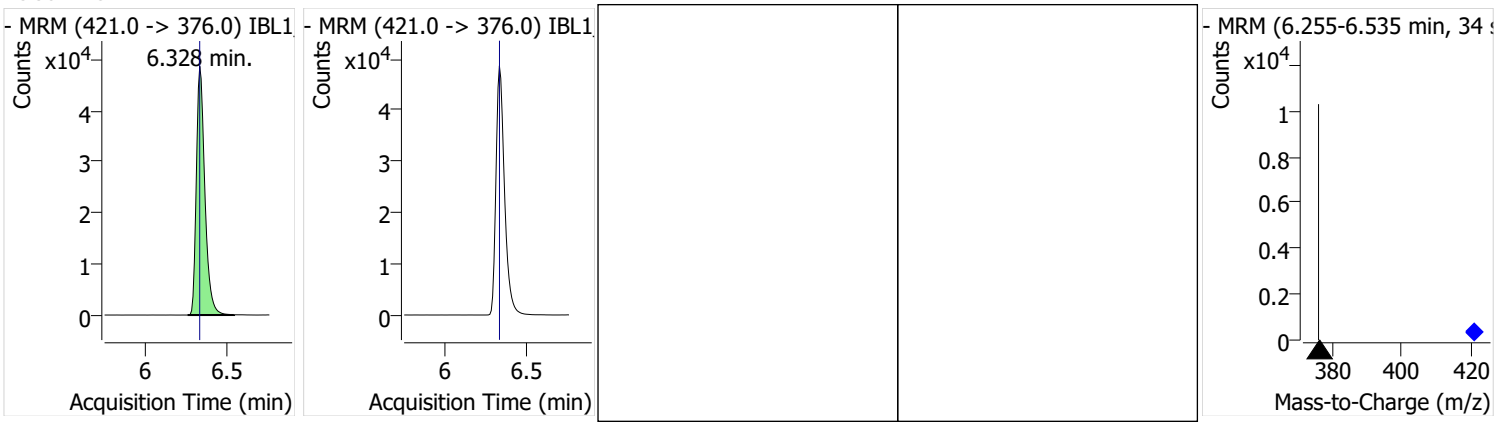

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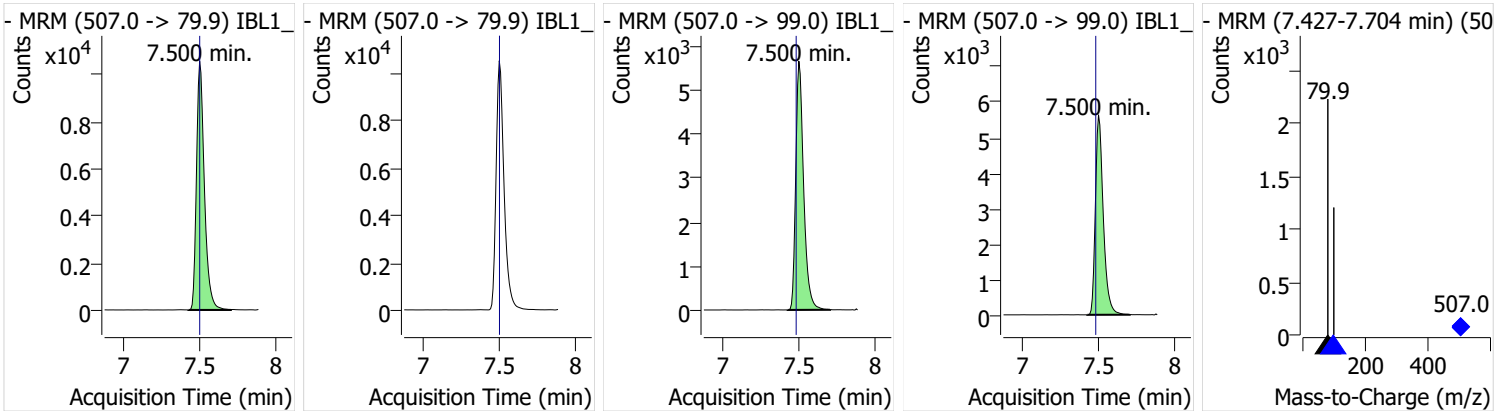

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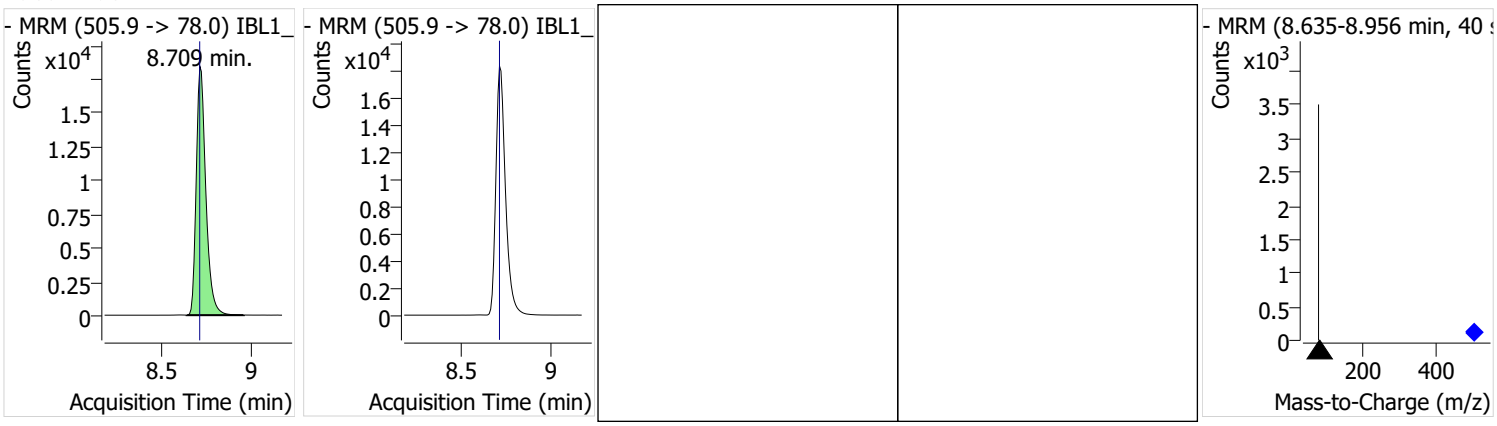

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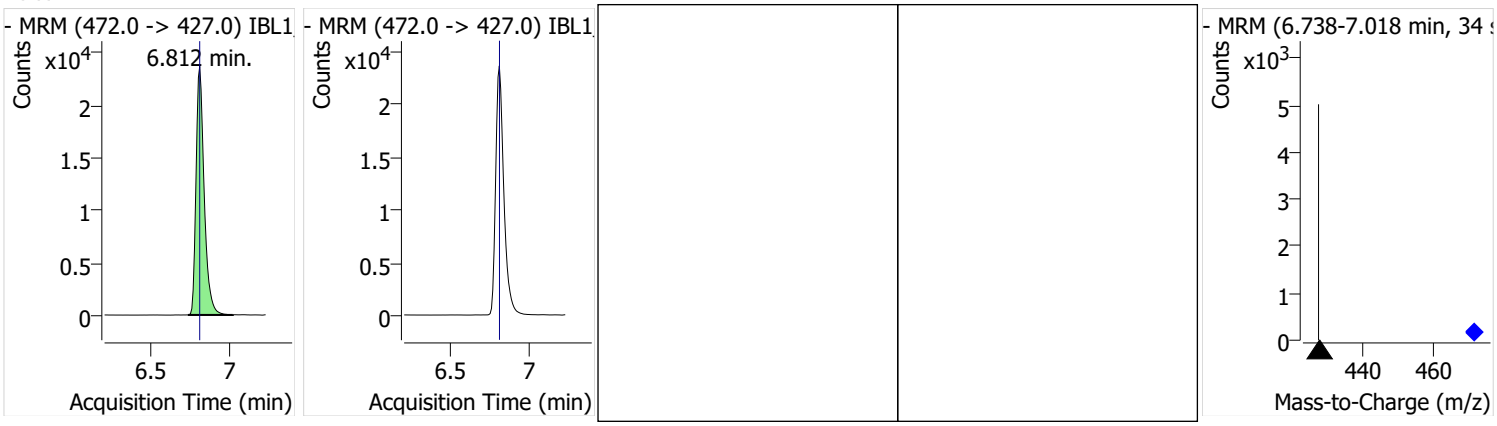

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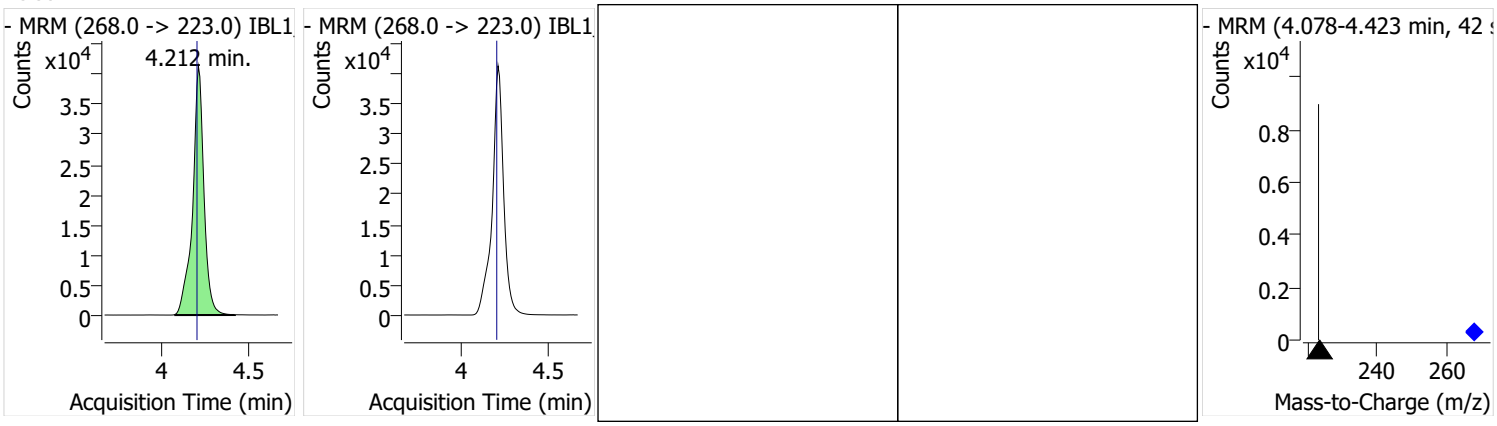

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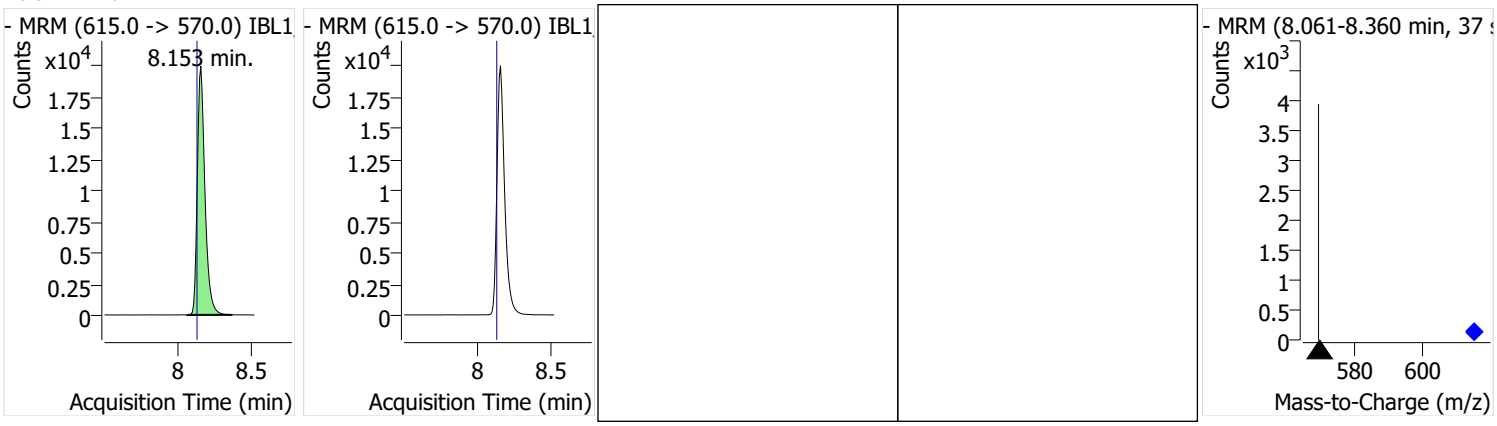

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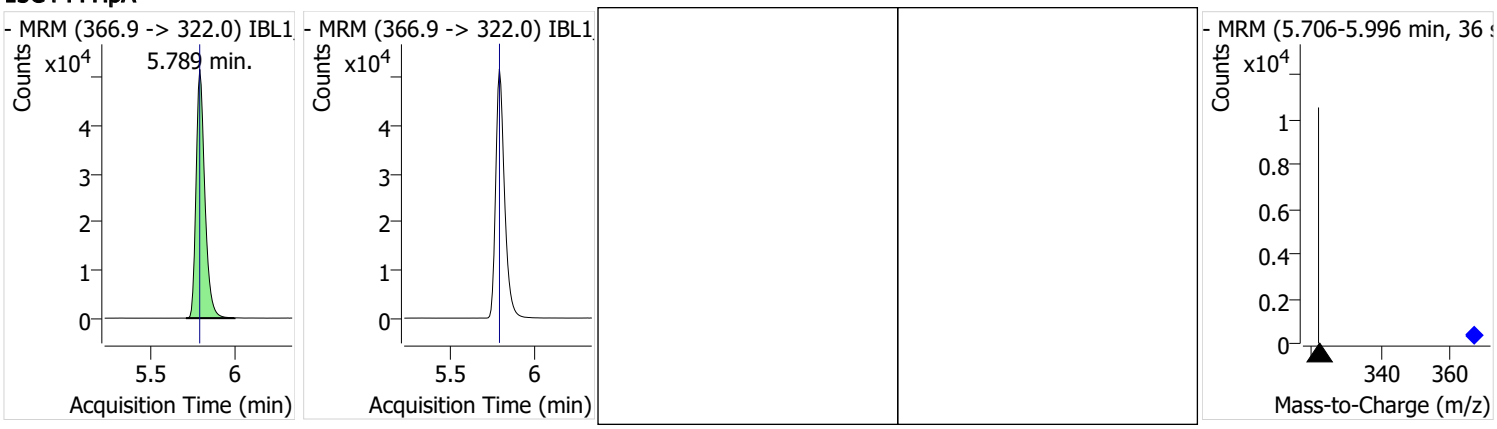

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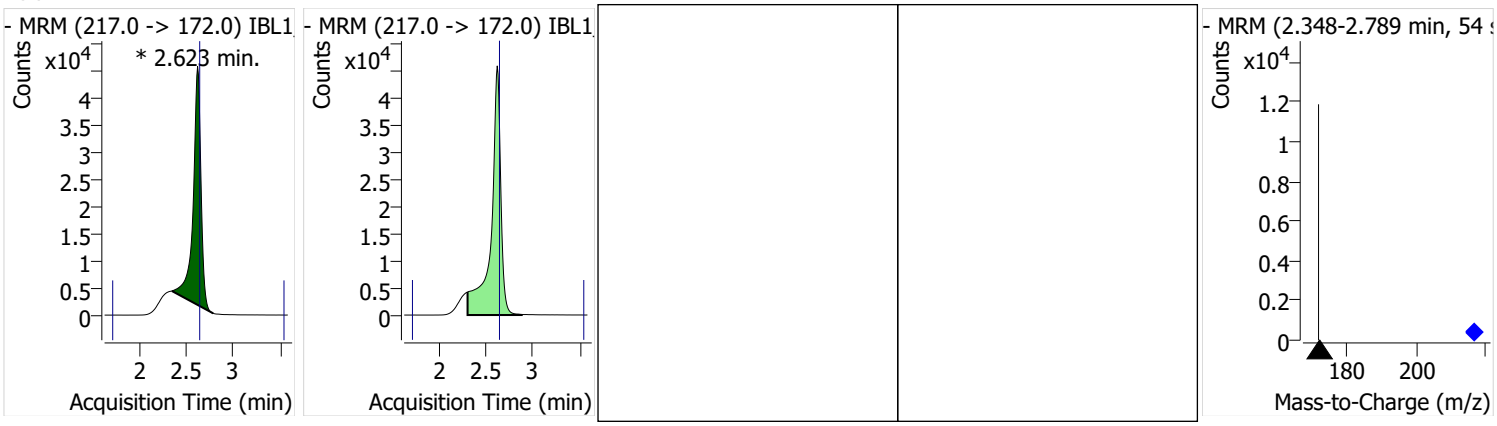

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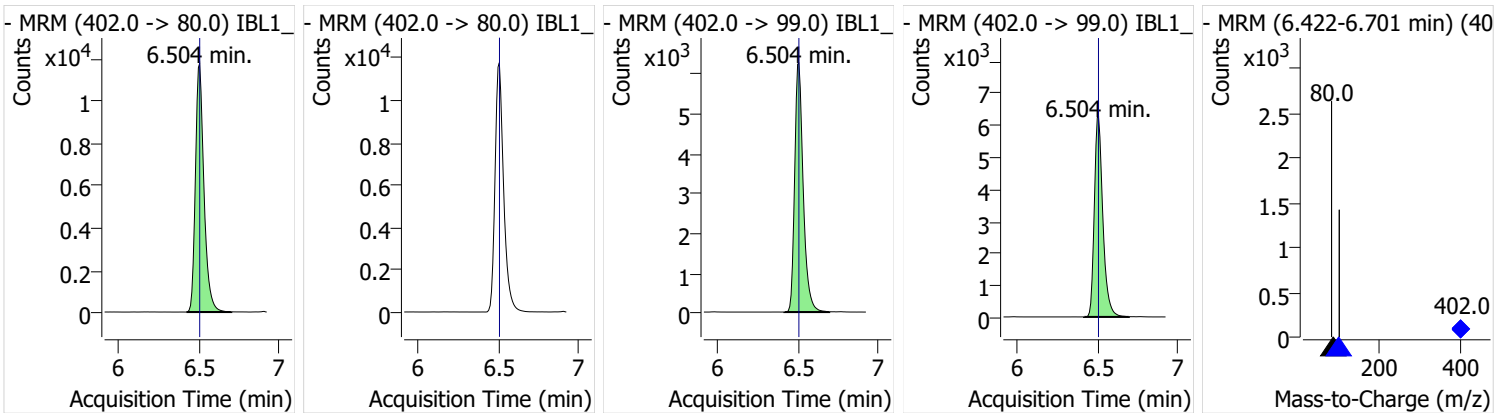

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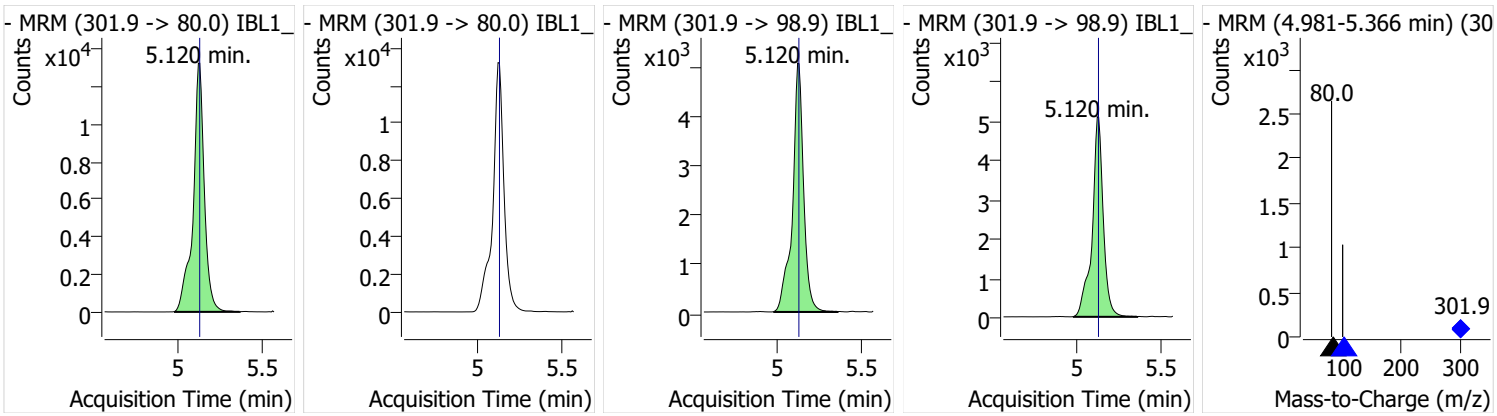

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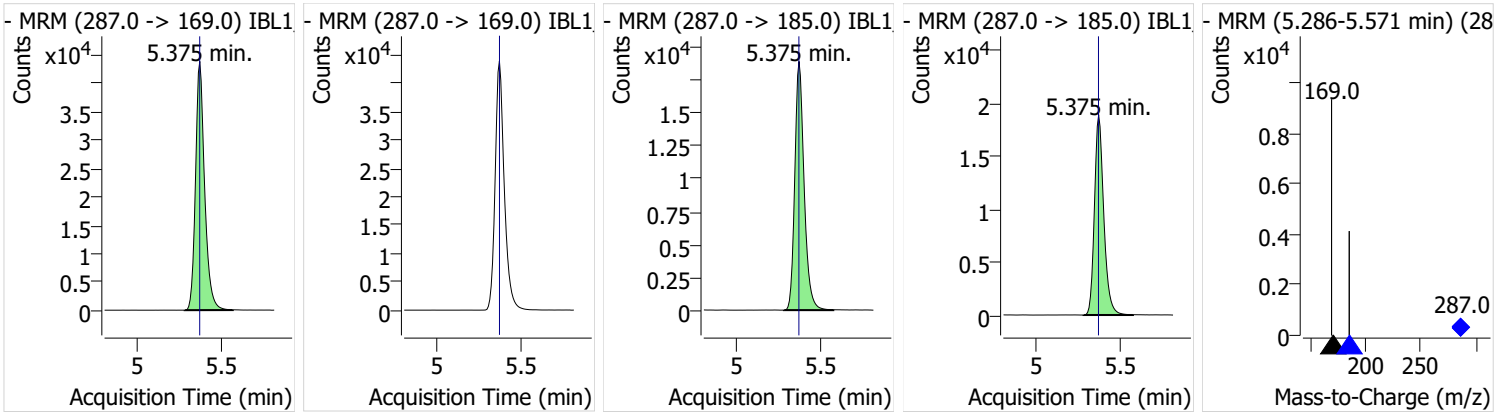

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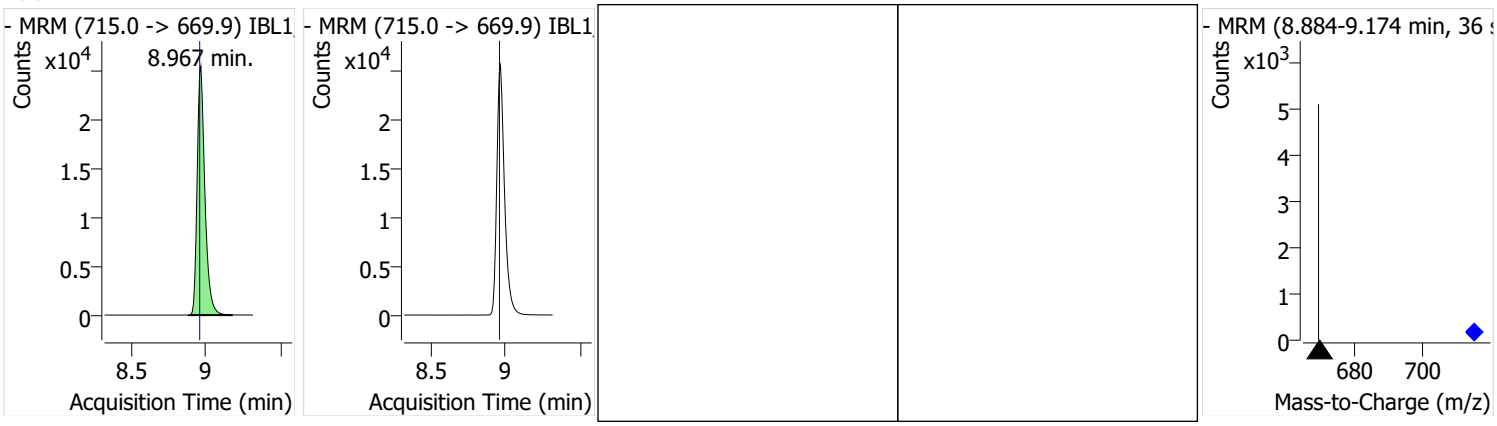
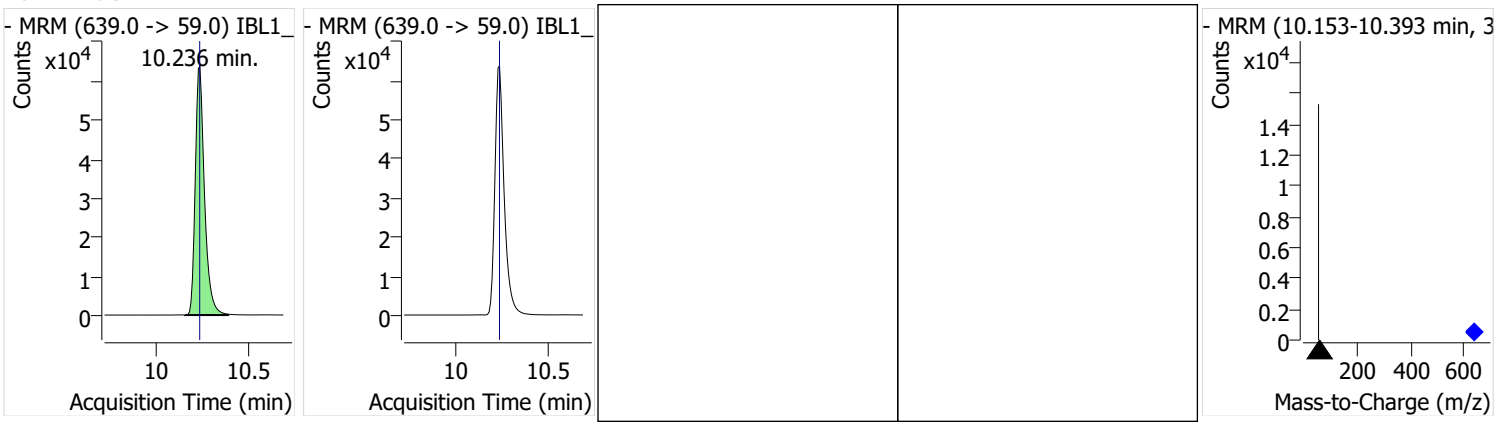


D9-NEtFOSE



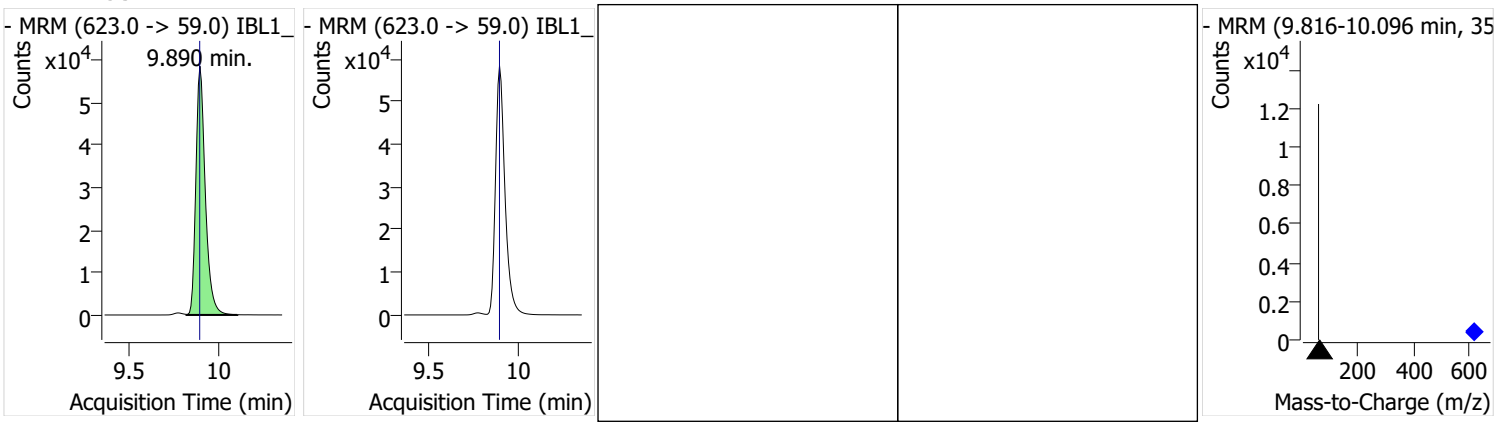
D3-NMeFOSA

D3-NMeFOSAA

D5-NEtFOSA

D5-NEtFOSAA

D7-NMeFOSE



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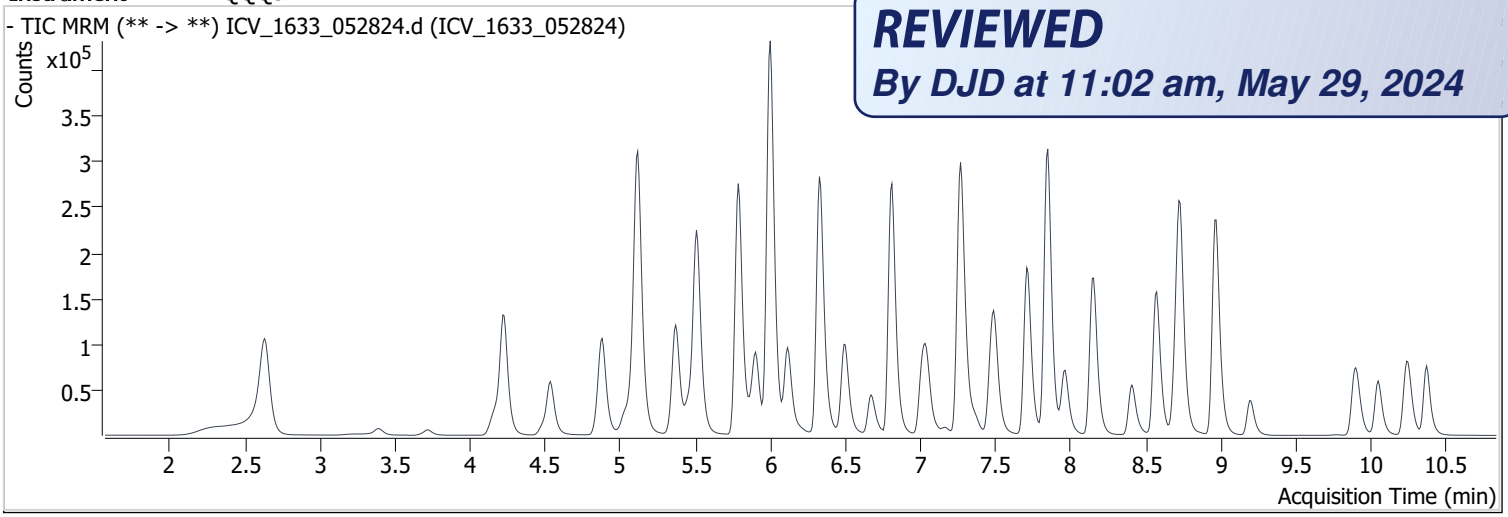
Acq. Time	5/28/2024 12:50 PM	**Data File**	ICV_1633_052824.d
Sample Type	QC	**Sample Name**	ICV_1633_052824
Dilution	1	**Acq. Method**	1633_ACQUISITION.m
Sample Comment	E#24E0881	**Processing method**	1633_050624.m
Instrument	QQQ5		

REVIEWED
By DJD at 11:02 am, May 29, 2024



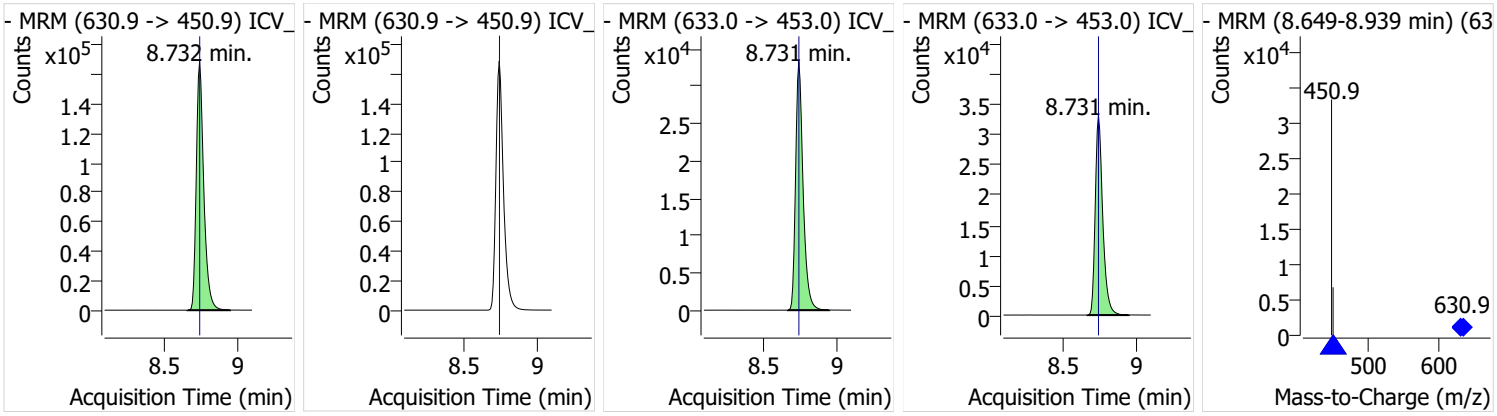
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
11Cl-PF3OUdS	8.732	595791	74434.85		13C3-HFPODA - ISTD	5.375	168936	9.3263	ng/ml			
633.0 -> 453.0			34279.77	19.7								
3:3FTCA	3.724	17665	11742.60		13C5-PFPeA - ISTD	4.220	212840	9.4435	ng/ml			
241.0 -> 117.0			1308.91	51.7								
4:2FTS	4.879	211663	97031.62		13C2-4:2FTS - ISTD	4.879	35086	9.5872	ng/ml			
327.0 -> 80.9			21014.89	35.1								
5:3FTCA	5.509	70224	6803.18		13C5-PFHxA - ISTD	5.109	148525	9.2069	ng/ml			
341.0 -> 217.0			6618.95	91.2								
6:2FTS	6.114	143990	83246.01		13C2-6:2FTS - ISTD	6.114	27034	9.3686	ng/ml			
427.0 -> 80.9			19222.32	37.0								
7:3FTCA	6.674	80751	3876.40		13C5-PFHxA - ISTD	5.109	148525	8.4538	ng/ml			
441.0 -> 317.0			2496.30	93.0								
8:2FTS	7.047	80037	536132.64		13C2-8:2FTS - ISTD	7.047	24192	9.2143	ng/ml			
527.0 -> 81.0			13512.67	58.6								
9Cl-PF3ONS	7.851	883305	59881.34		13C3-HFPODA - ISTD	5.375	168936	9.2114	ng/ml			
533.0 -> 353.0			3022.78	27.6								
ADONA	6.004	1113987	34523.57		13C3-HFPODA - ISTD	5.375	168936	8.7786	ng/ml			
377.0 -> 85.1			44432.11	39.3								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA	5.376	144143	9472.23		13C3-HFPODA - ISTD	5.375	168936	9.9939	ng/ml			
285.0 -> 184.9			4740.74	47.4								
NEtFOSA	10.373	113670	73767.52		D5-NEtFOSA - ISTD	10.362	22058	9.7355	ng/ml			
526.0 -> 219.0			54839.81	96.8								
NEtFOSAA	7.470	143580	10034.19		D5-NEtFOSAA - ISTD	7.461	76644	8.8602	ng/ml	✔	3	AMS 05/29/24
584.0 -> 526.0			3957.96	62.6								
NEtFOSE	10.253	98038	57449.54		D9-NEtFOSE - ISTD	10.236	226109	9.4416	ng/ml			
NFDHA	5.032	38543	7677.30		13C5-PFHxA - ISTD	5.109	148525	9.2634	ng/ml			
295.0 -> 85.0			6287.60	31.2								
NMeFOSA	10.053	98284	100563.09		D3-NMeFOSA - ISTD	10.051	22137	9.4597	ng/ml			
512.0 -> 219.0			94672.30	90.8								
NMeFOSAA	7.275	99412	41668.41		D3-NMeFOSAA - ISTD	7.274	157569	8.6504	ng/ml	✔	3	AMS 05/29/24
570.0 -> 418.9			7811.84	58.3								
NMeFOSE	9.915	87383	40935.64		D7-NMeFOSE - ISTD	9.890	211804	9.2099	ng/ml			
PFBA	2.637	217133	7305.39		13C4-PFBA - ISTD	2.631	257716	9.3041	ng/ml	✔	3	AMS 05/29/24
PFBS	5.129	287974	32499.23		13C3-PFBS - ISTD	5.129	61849	9.8571	ng/ml			
298.9 -> 98.8			24213.42	40.1								
PFDA	7.262	558098	17745.95		13C6-PFDA - ISTD	7.261	71841	9.9172	ng/ml			
513.0 -> 219.0			13025.49	21.5								
PFDoA	8.153	475436	19940.27		13C2-PFDoA - ISTD	8.153	72134	8.2082	ng/ml			
613.0 -> 319.0			9376.94	17.5								
PFDoS	9.197	83166	102998.44		13C8-PFOS - ISTD	7.500	38255	8.9087	ng/ml			
698.9 -> 99.0			48511.20	65.7								
PFDS	8.411	120682	30693.83		13C8-PFOS - ISTD	7.500	38255	9.0182	ng/ml			
599.0 -> 98.8			18964.23	59.2								
PFEESA	5.511	755459	106641.09		13C5-PFHxA - ISTD	5.109	148525	8.6734	ng/ml			
315.0 -> 83.0			11648.33	7.1								
PFHpA	5.789	687521	14036.91		13C4-PFHpA - ISTD	5.789	190972	8.6950	ng/ml			
362.9 -> 169.0			16488.80	15.3								
PFHpS	7.019	169064	40590.74		13C8-PFOS - ISTD	7.500	38255	9.1968	ng/ml			
449.0 -> 98.8			57663.93	52.3								

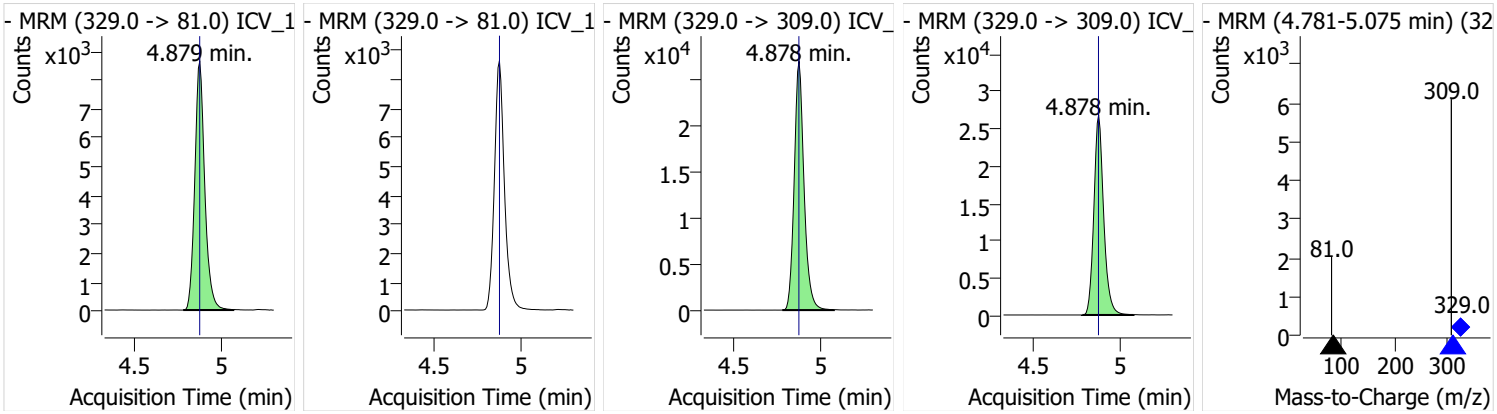
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFHxA	5.111	546440	18414.18		13C5-PFHxA - ISTD	5.109	148525	9.3890	ng/ml			
313.0 -> 118.9			3108.04	3.0								
PFHxS	6.497	200309	3547.83		13C3-PFHxS - ISTD	6.496	43756	9.5981	ng/ml	✔	3	AMS 05/29/24
398.9 -> 99.0			17281.28	46.2								
PFMBA	4.538	254832	68462.18		13C5-PFPeA - ISTD	4.220	212840	9.0937	ng/ml			
PFMPA	3.391	29112	1311.13		13C5-PFPeA - ISTD	4.220	212840	9.8133	ng/ml	✔	3	AMS 05/29/24
PFNA	6.812	639027	15228.11		13C9-PFNA - ISTD	6.812	83372	9.7293	ng/ml			
463.0 -> 219.0			25603.20	23.8								
PFNS	7.967	154938	25110.52		13C8-PFOS - ISTD	7.500	38255	9.4037	ng/ml			
549.0 -> 98.8			28157.66	55.5								
PFOA	6.329	659125	4370.99		13C8-PFOA - ISTD	6.328	173792	8.2594	ng/ml	✔	3	AMS 05/29/24
413.0 -> 169.0			15568.92	23.3								
PFOS	7.501	155178	1488.79		13C8-PFOS - ISTD	7.500	38255	8.3665	ng/ml	✔	3	AMS 05/29/24
499.0 -> 99.0			13499.31	48.8								
PFOSA	8.710	269954	4550.11		13C8-PFOSA - ISTD	8.709	71439	8.7721	ng/ml	✔	3	AMS 05/29/24
497.9 -> 478.0			9675.92	2.5								
PFPeA	4.222	401424	14714.61		13C5-PFPeA - ISTD	4.220	212840	9.5723	ng/ml			
263.0 -> 69.0			510.82	0.3								
PFPeS	5.906	231248	39386.68		13C3-PFHxS - ISTD	6.496	43756	9.7558	ng/ml			
349.0 -> 98.9			45636.77	48.5								
PFTeDA	8.967	706955	33279.89		13C2-PFTeDA - ISTD	8.958	93371	9.7790	ng/ml			
713.0 -> 168.9			19098.39	7.7								
PFTrDA	8.573	487734	21281.79		13C2-PFDoA - ISTD	8.153	72134	8.1327	ng/ml			
663.0 -> 168.9			28522.01	15.0								
PFUnA	7.710	469753	11985.48		13C7-PFUnA - ISTD	7.709	70895	8.5460	ng/ml			
563.0 -> 269.1			15010.28	24.9								
TDCA	5.417	2	1.68					-	ng/ml			
499.0 -> 99.0			6.86	*634.5								
13C2-8:2FTS	7.046	52741	286083.71		18O2-PFHxS	6.504	39040	4.9467	ng/ml			
529.0 -> 81.0			9559.89	45.9								
13C2-4:2FTS	4.878	107446	23380.97		18O2-PFHxS	6.504	39040	5.4061	ng/ml			

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
329.0 -> 81.0			9148.29	32.7								
13C2-6:2FTS	6.113	95176	20413.73		18O2-PFHxS	6.504	39040	5.3876	ng/ml			
429.0 -> 81.0			5931.93	28.4								
13C5-PFHxA	5.109	148525	21206.97		13C2-PFHxA	5.110	125156	2.8008	ng/ml			
318.0 -> 120.0			258.31	1.5								
13C6-PFDA	7.261	71841	6247.99		13C2-PFDA	7.262	67273	1.3411	ng/ml			
13C7-PFUnA	7.709	70895	6819.74		13C2-PFDA	7.262	67273	1.4156	ng/ml			
13C8-PFOA	6.328	173792	20282.36		13C4-PFOA	6.329	20497	2.5913	ng/ml			
13C8-PFOS	7.500	38255	7048.85		13C4-PFOS	7.501	36689	2.8112	ng/ml			
507.0 -> 99.0			2583.61	55.1								
13C8-PFOSA	8.709	71439	94054.09		13C4-PFOS	7.501	36689	2.9052	ng/ml			
13C9-PFNA	6.812	83372	11330.33		13C5-PFNA	6.812	97544	1.3891	ng/ml			
13C5-PFPeA	4.220	212840	22425.00		13C2-PFHxA	5.110	125156	5.4128	ng/ml			
13C2-PFDoA	8.153	72134	9495.47		13C2-PFDA	7.262	67273	1.3955	ng/ml			
13C4-PFHpA	5.789	190972	19685.61		13C2-PFHxA	5.110	125156	2.7605	ng/ml			
13C4-PFBA	2.631	257377	52886.28		13C3-PFBA	2.634	107272	10.9830	ng/ml	✔	3	AMS 05/29/24
13C3-PFHxS	6.496	43756	8831.87		18O2-PFHxS	6.504	39040	2.7310	ng/ml			
402.0 -> 99.0			10772.63	51.8								
13C3-PFBS	5.129	61849	20830.70		18O2-PFHxS	6.504	39040	2.6677	ng/ml			
301.9 -> 98.9			4954.17	37.4								
13C3-HFPODA	5.375	168936	20293.86		13C2-PFHxA	5.110	125156	11.1082	ng/ml			
287.0 -> 185.0			7885.41	45.7								
13C2-PFTeDA	8.958	93371	17746.86		13C2-PFDA	7.262	67273	1.3396	ng/ml			
D9-NEtFOSE	10.236	226109	117688.81		13C4-PFOS	7.501	36689	28.4244	ng/ml			
D3-NMeFOSA	10.051	22137	11466.31		13C4-PFOS	7.501	36689	2.7557	ng/ml			
D3-NMeFOSAA	7.274	157569	14627.19		13C4-PFOS	7.501	36689	5.7788	ng/ml			
D5-NEtFOSA	10.362	22058	7232.09		13C4-PFOS	7.501	36689	2.6973	ng/ml			
D5-NEtFOSAA	7.461	76644	13635.32		13C4-PFOS	7.501	36689	5.6147	ng/ml			
D7-NMeFOSE	9.890	211804	191700.01		13C4-PFOS	7.501	36689	28.4919	ng/ml			

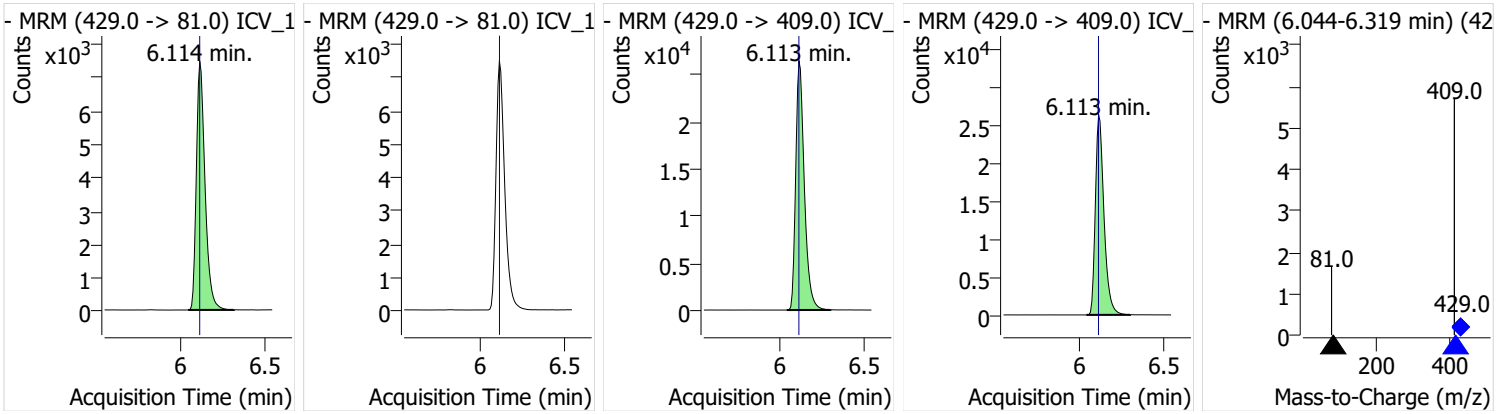
11Cl-PF3OUdS



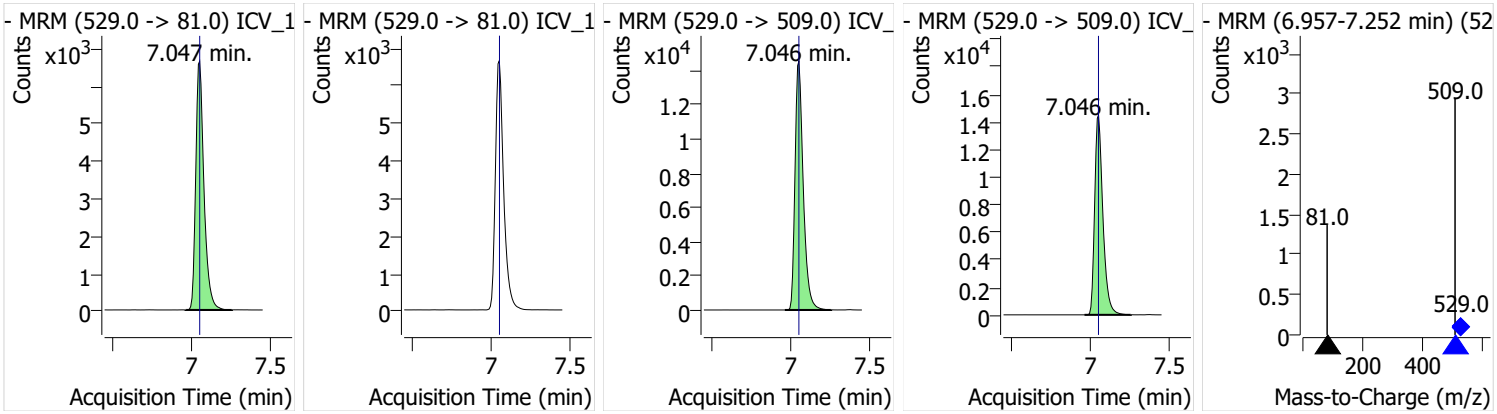
13C2-4:2FTS - ISTD



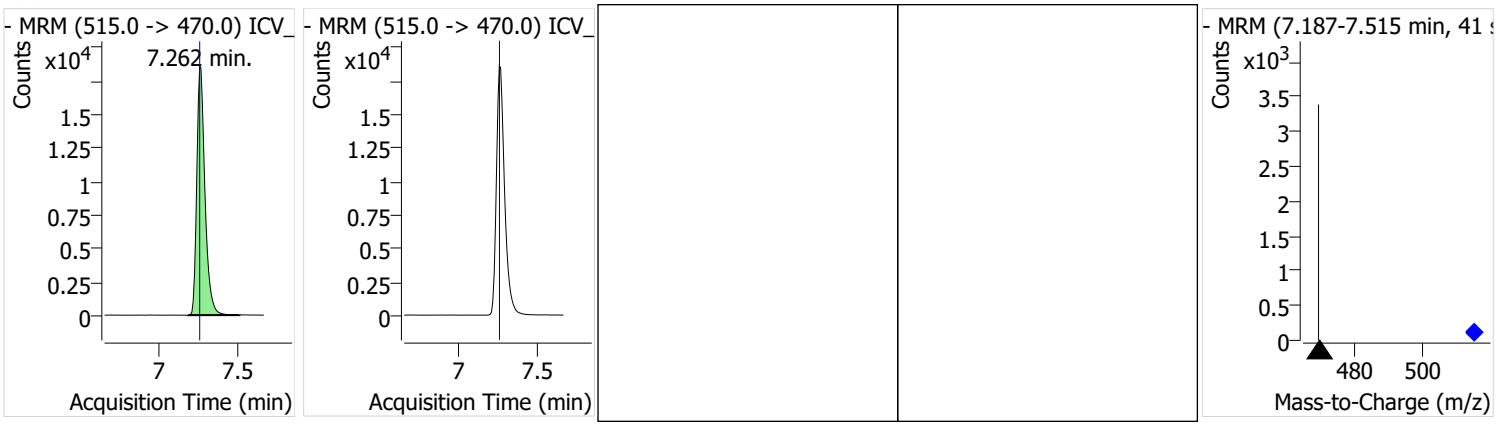
13C2-6:2FTS - ISTD



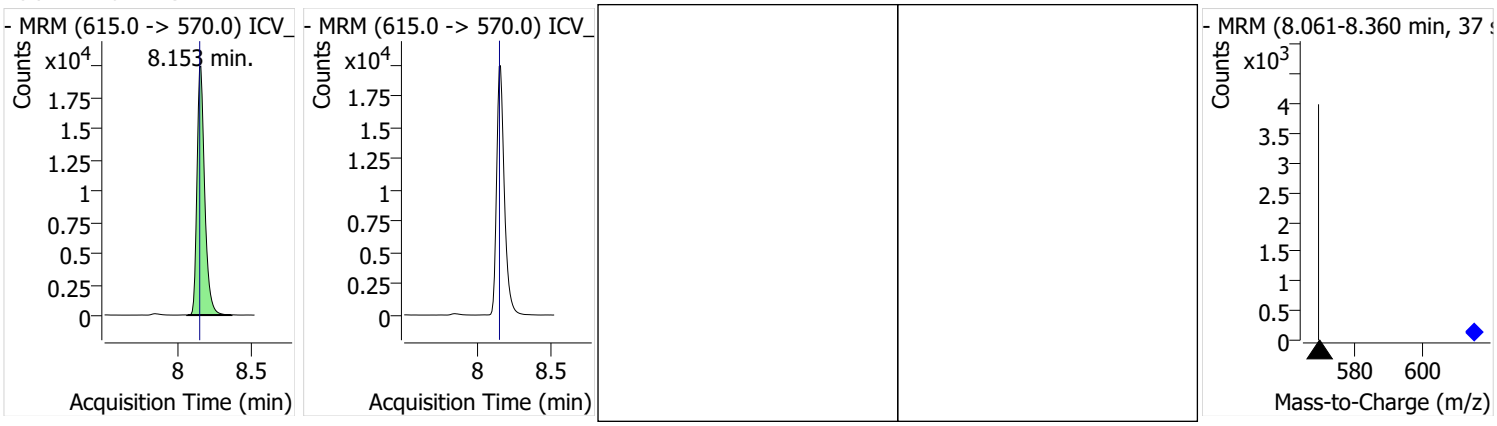
13C2-8:2FTS - ISTD



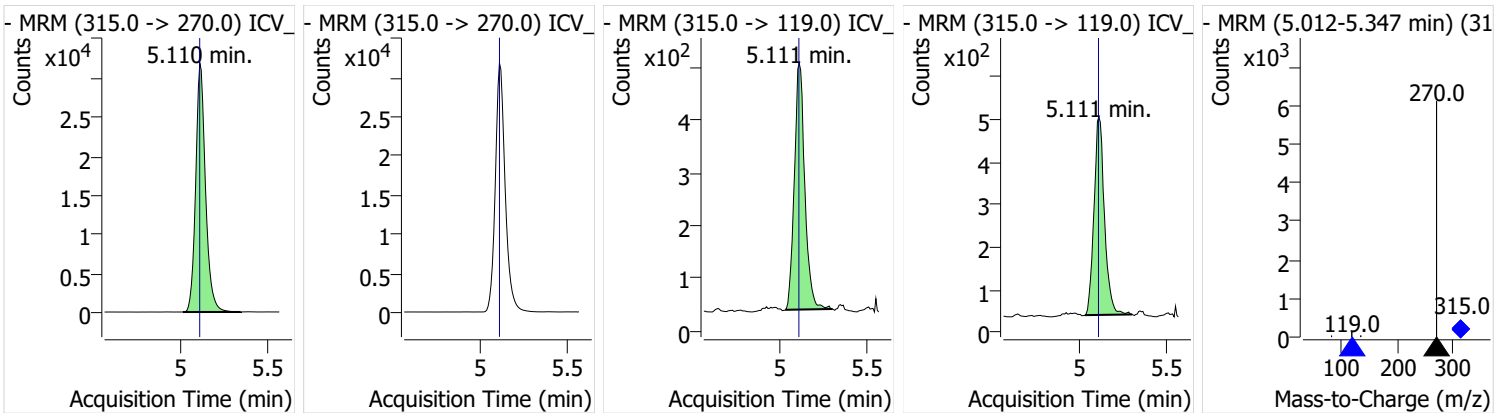
13C2-PFDA



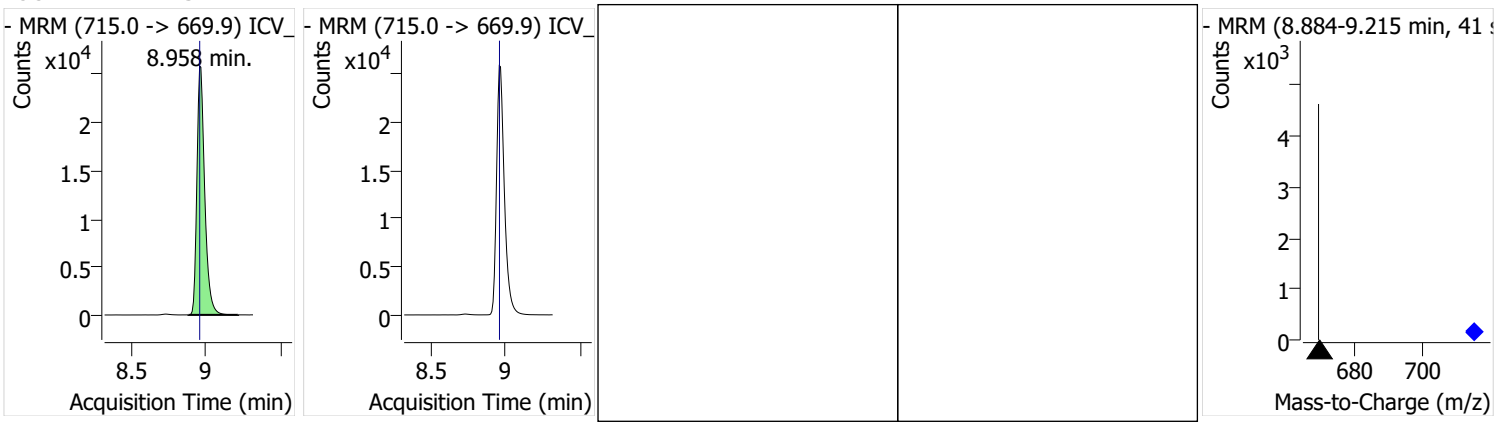
13C2-PFDoA - ISTD



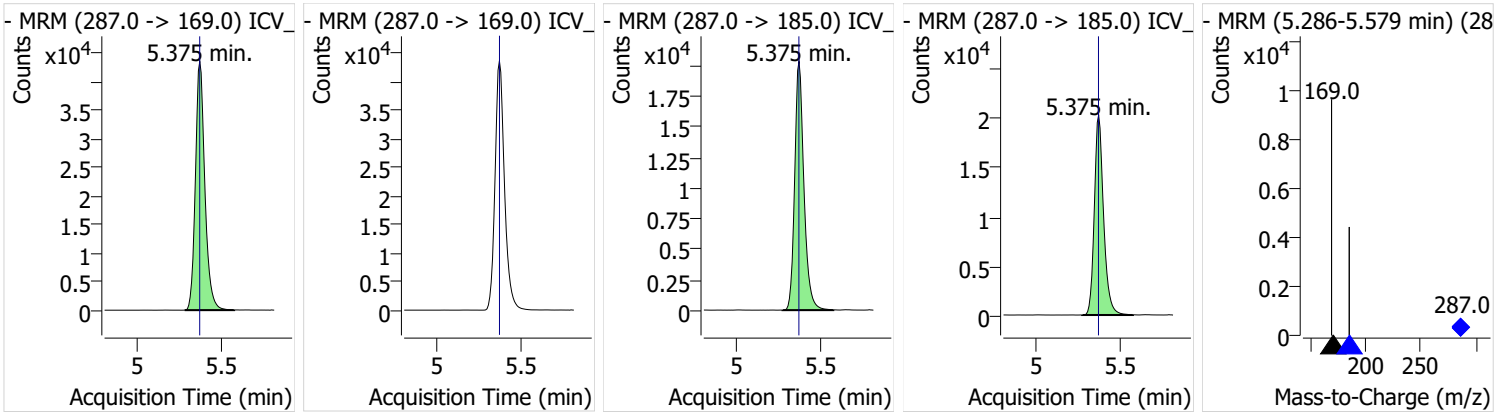
13C2-PFHxA



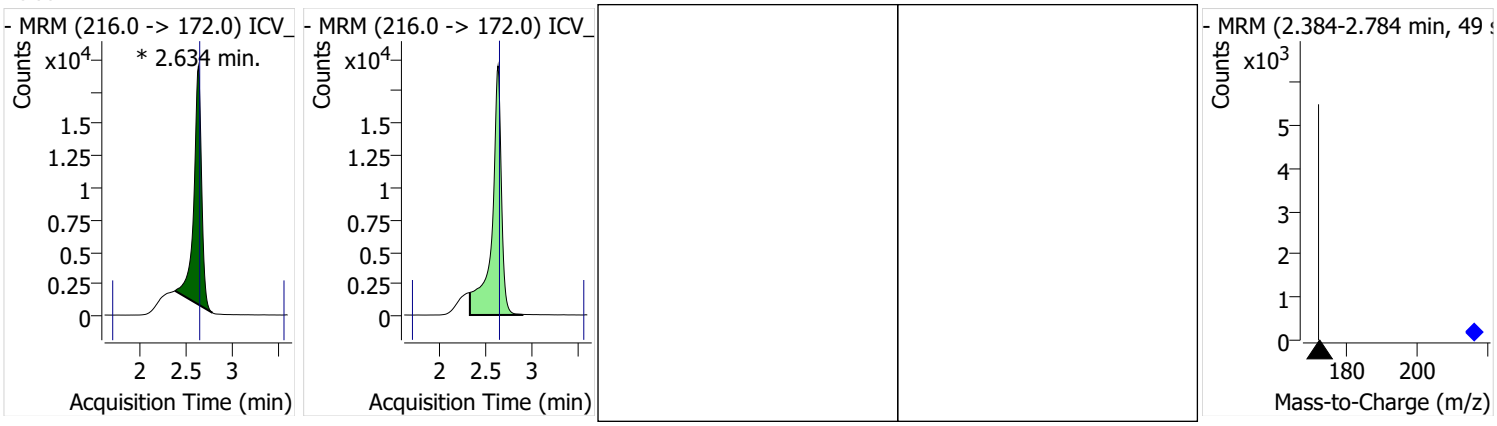
13C2-PFTeDA - ISTD



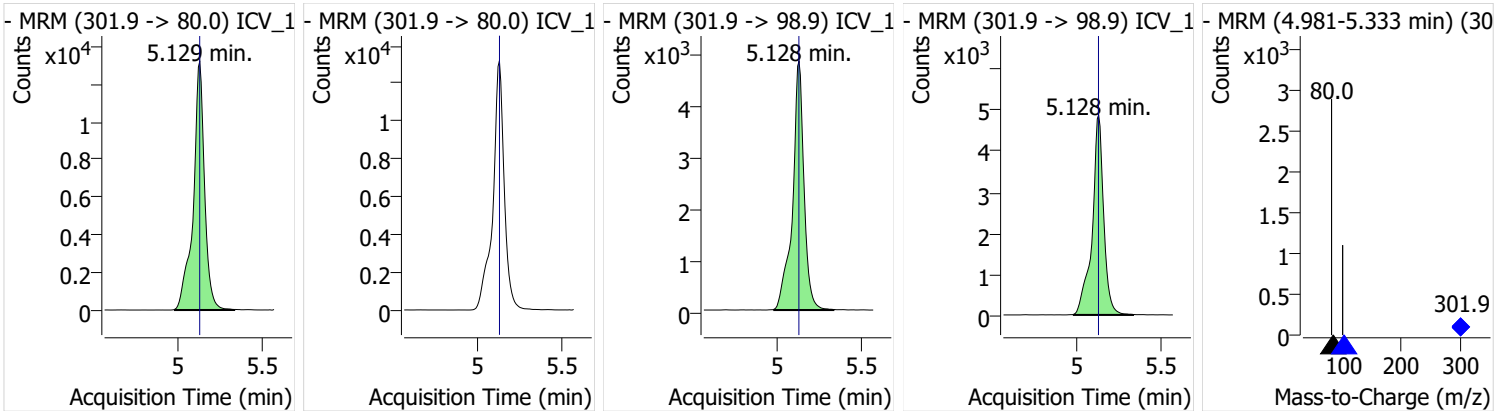
13C3-HFPODA - ISTD



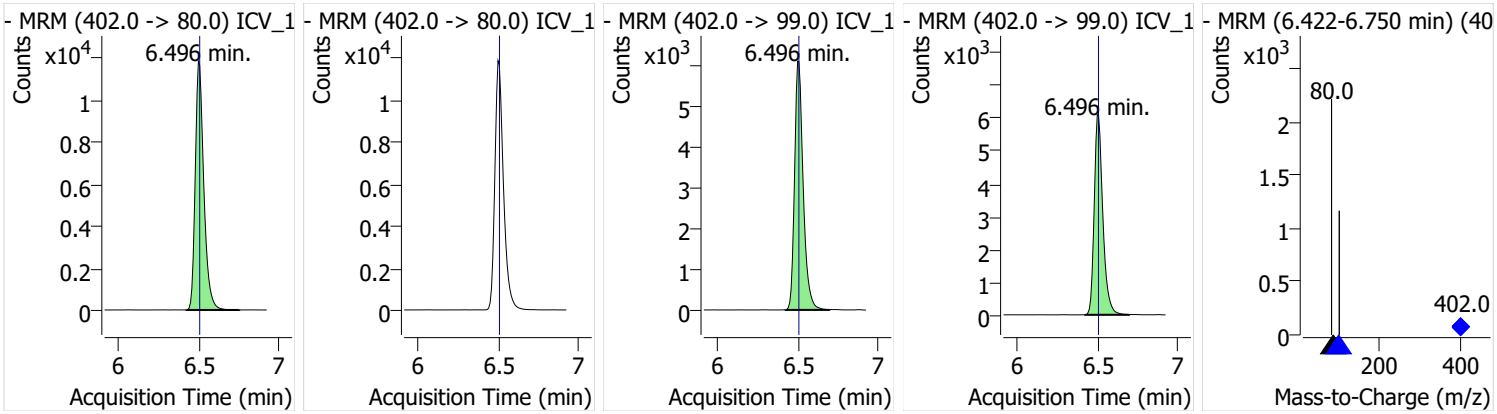
13C3-PFBA



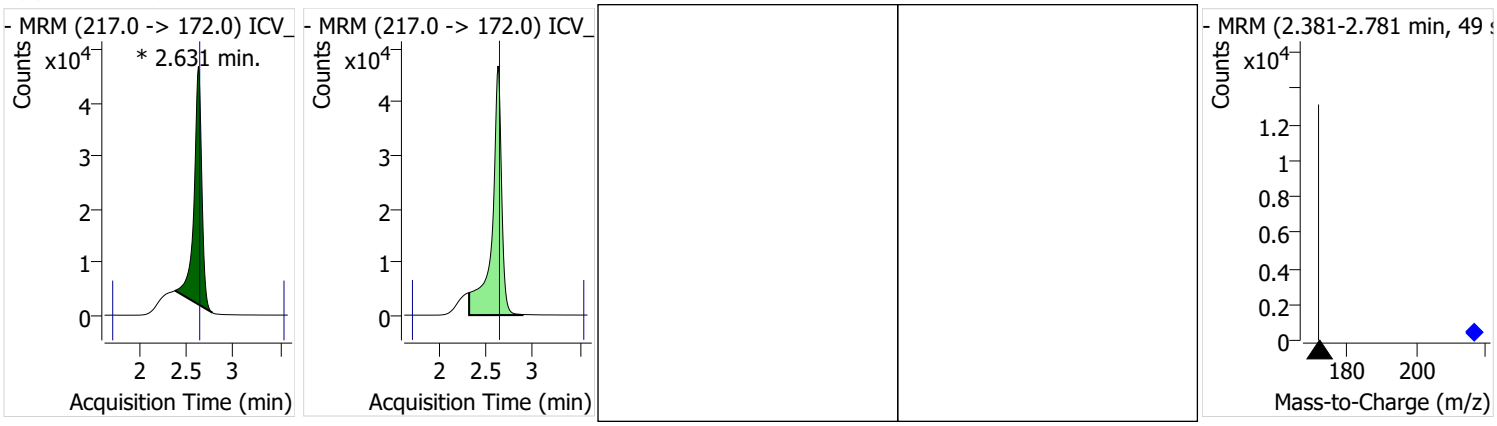
13C3-PFBS - ISTD



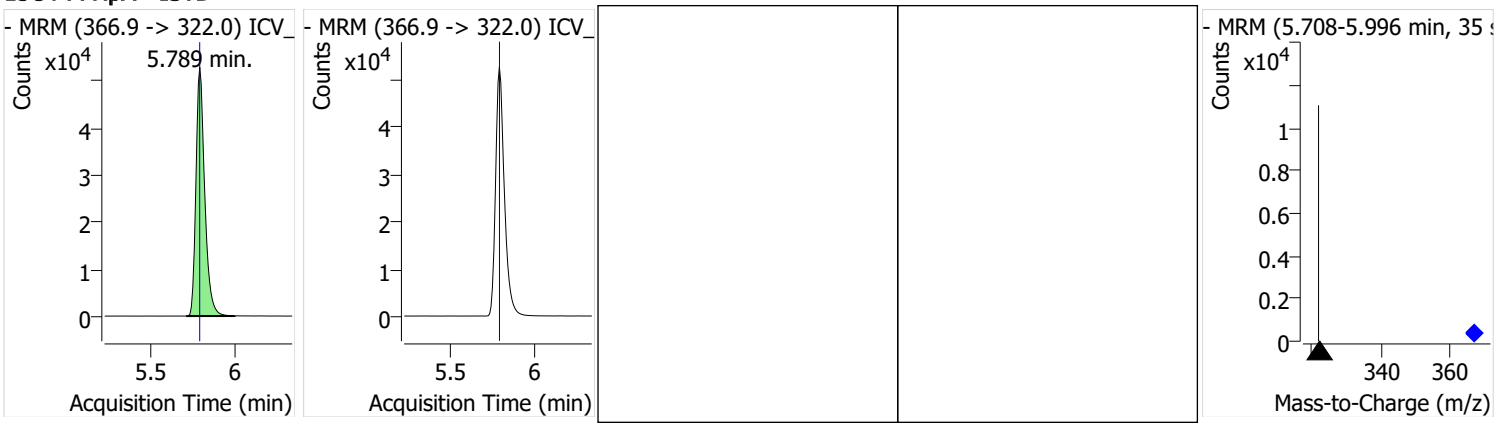
13C3-PFHxS - ISTD



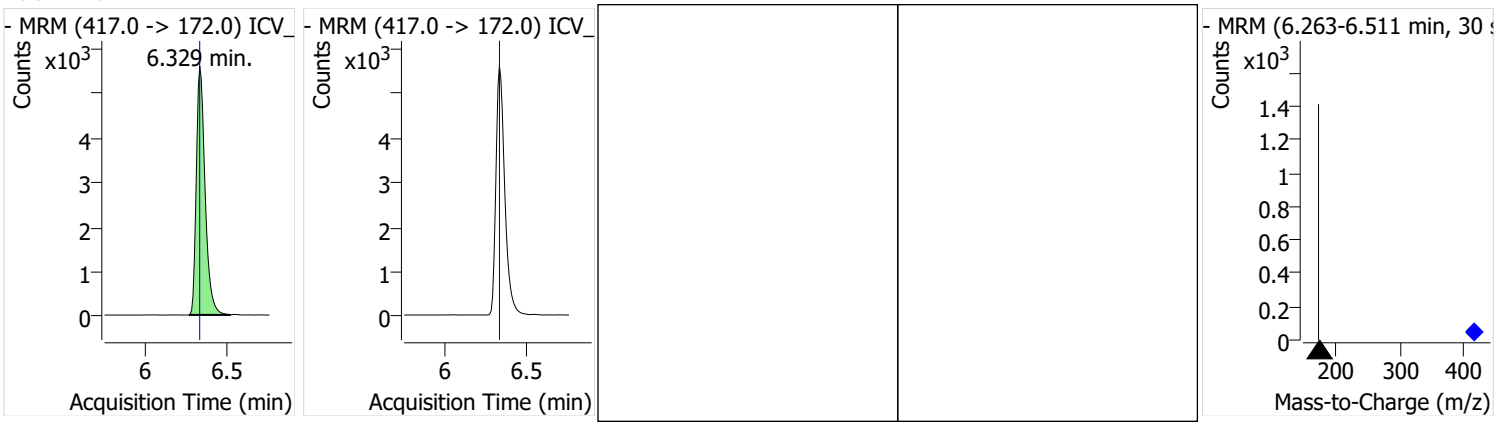
13C4-PFBA - ISTD



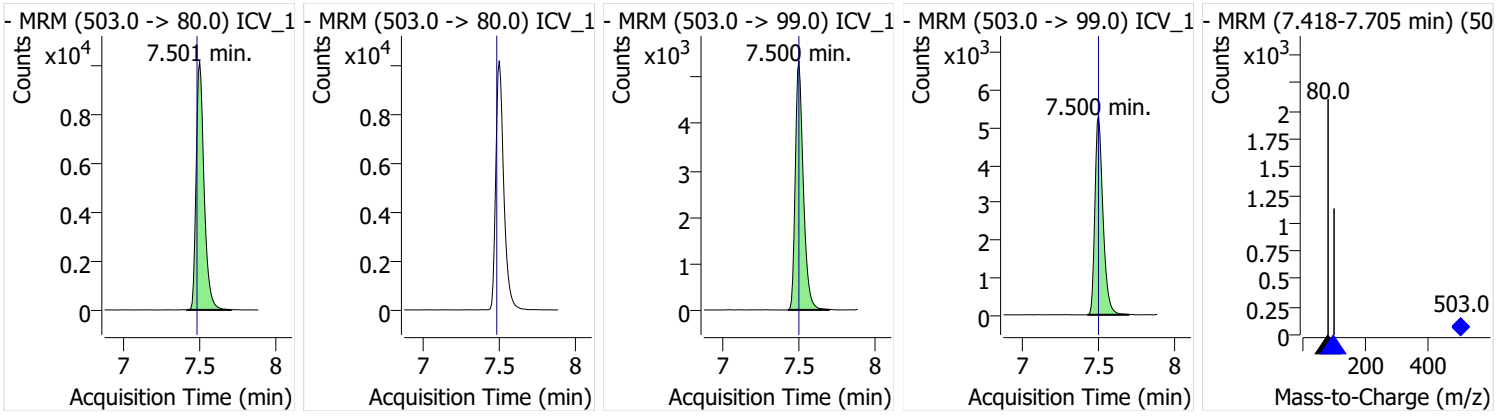
13C4-PFHpA - ISTD



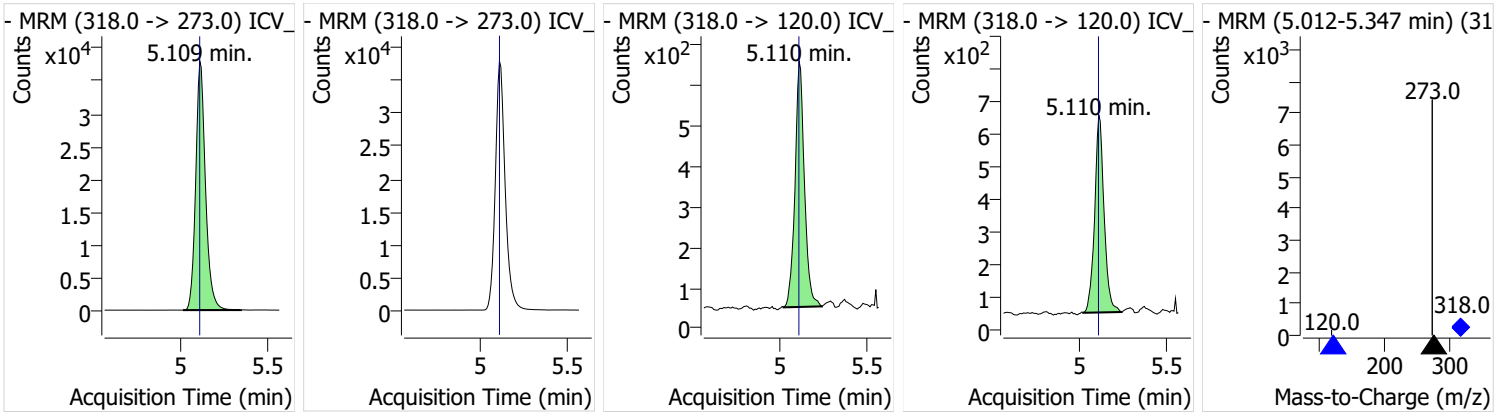
13C4-PFOA



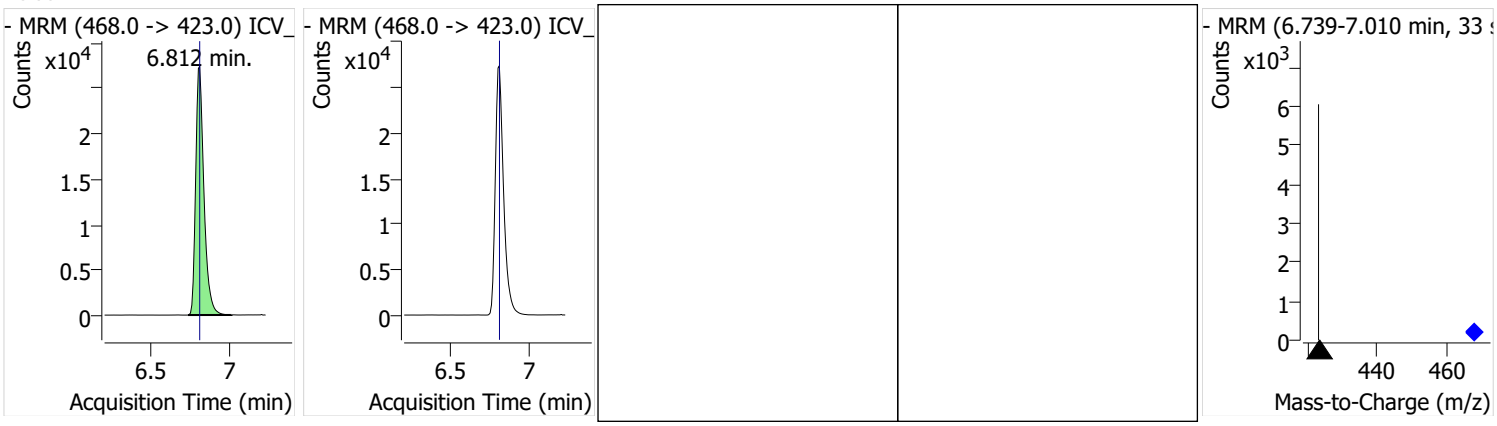
13C4-PFOS



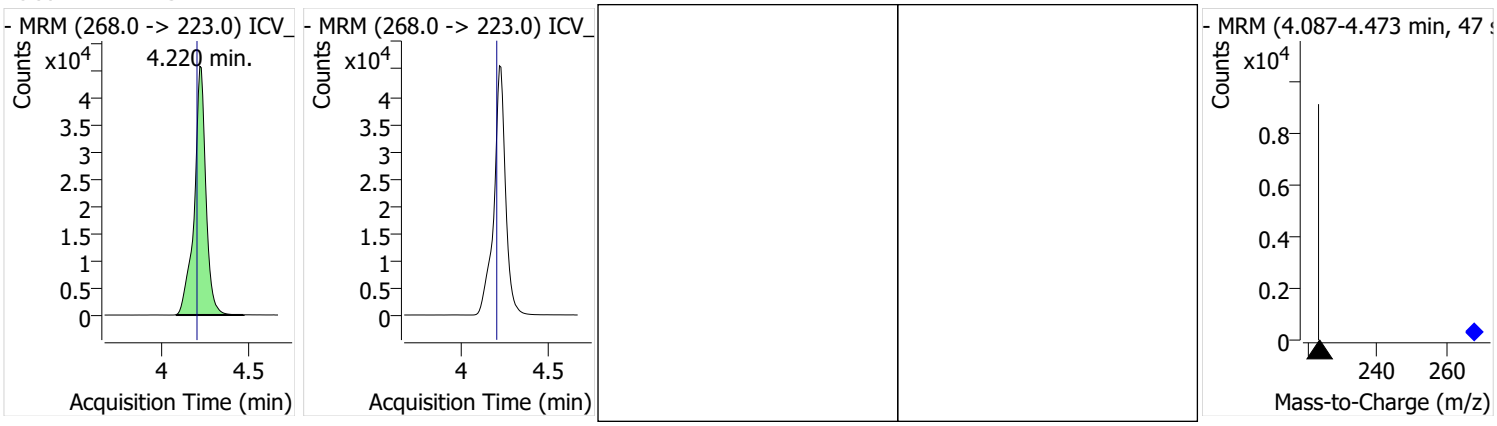
13C5-PFHxA - ISTD



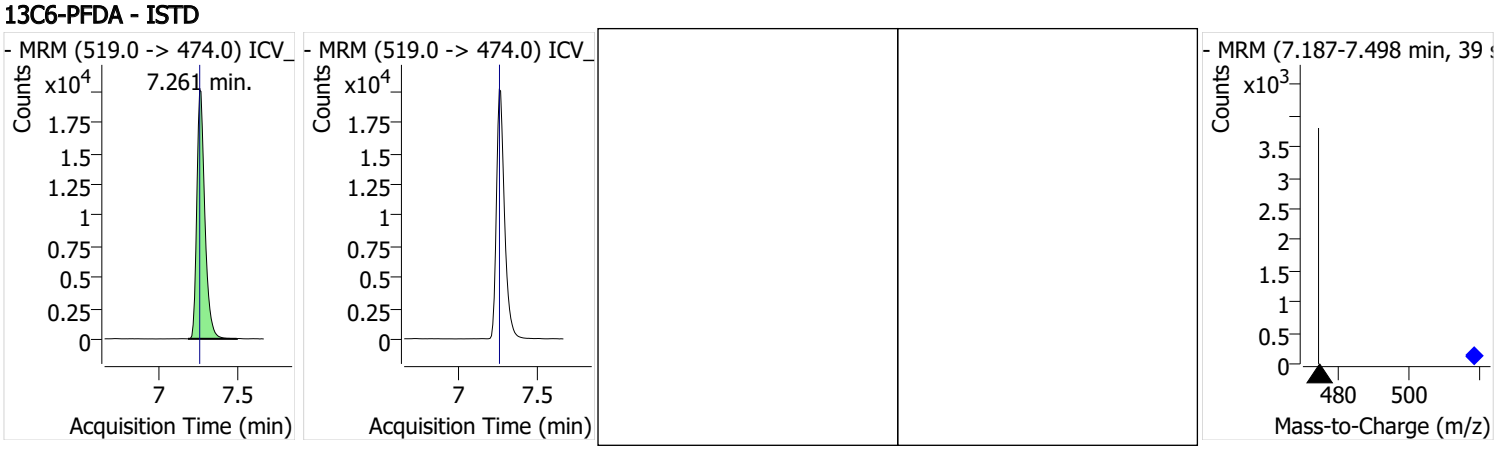
13C5-PFNA



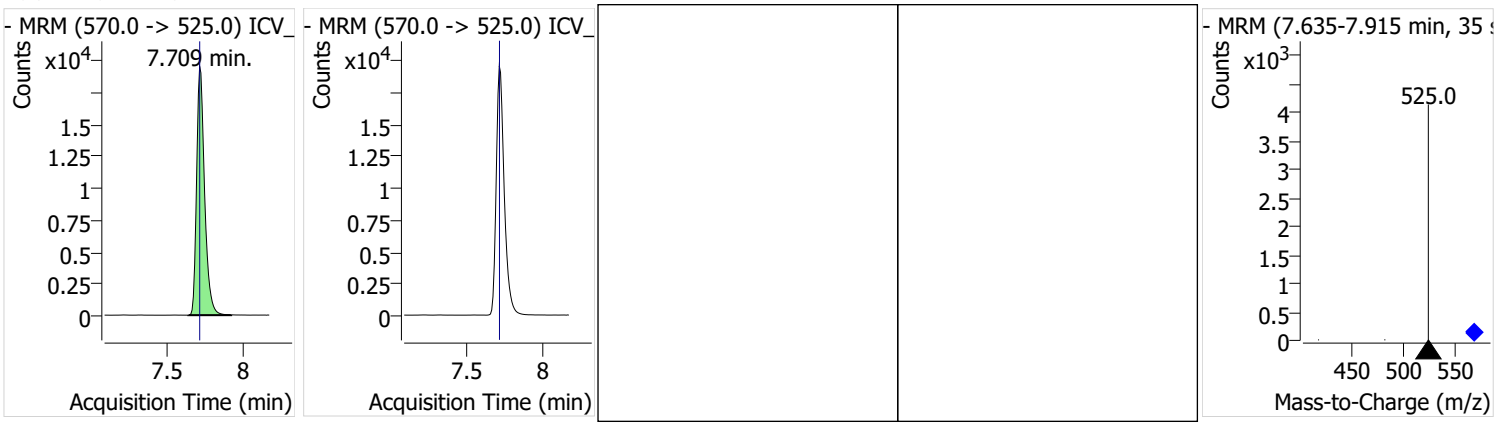
13C5-PFPeA - ISTD



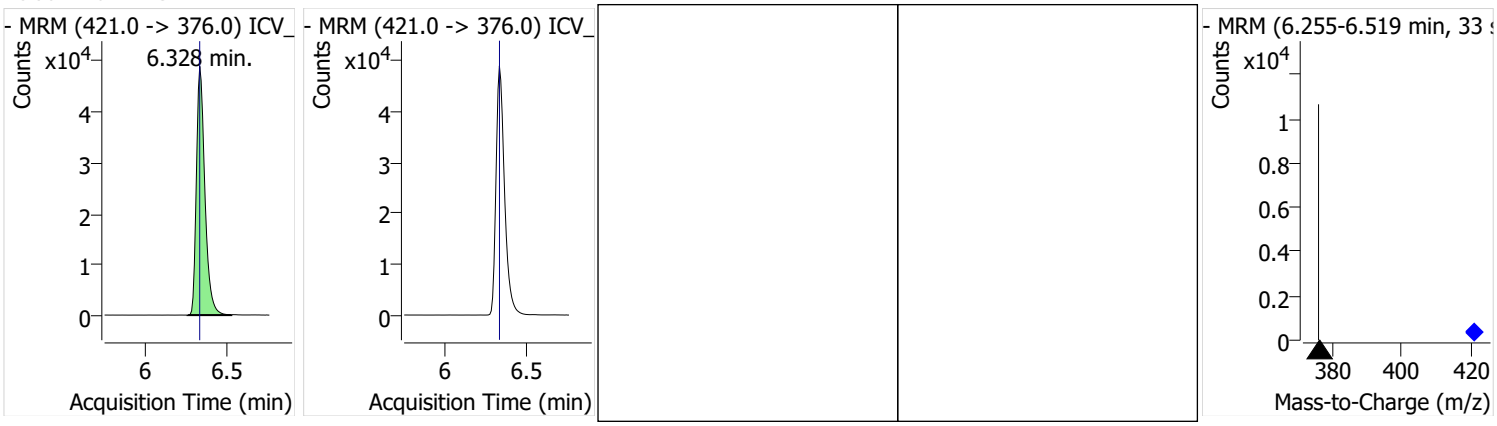
13C6-PFDA - ISTD



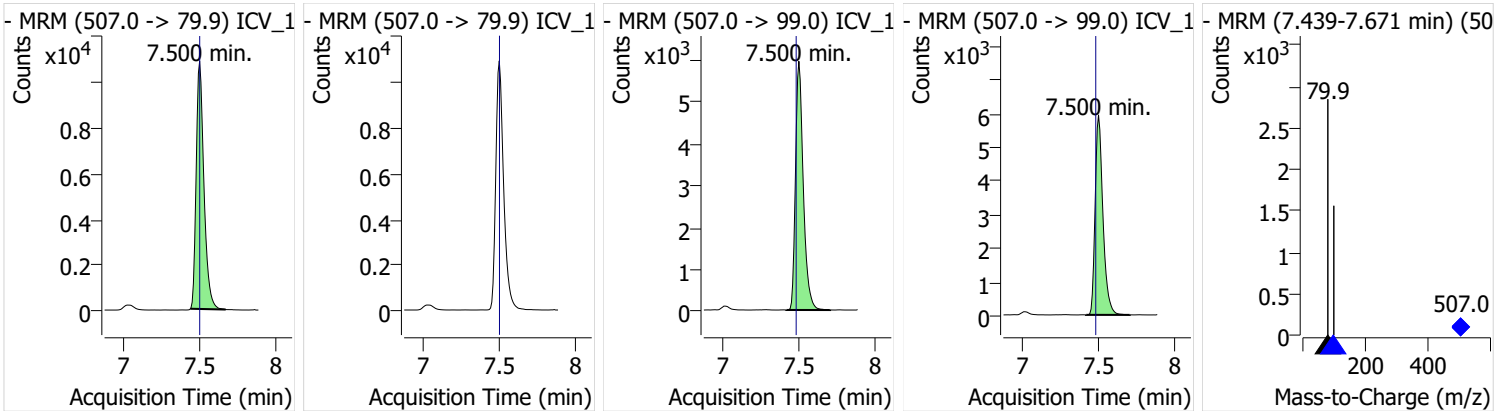
13C7-PFUnA - ISTD



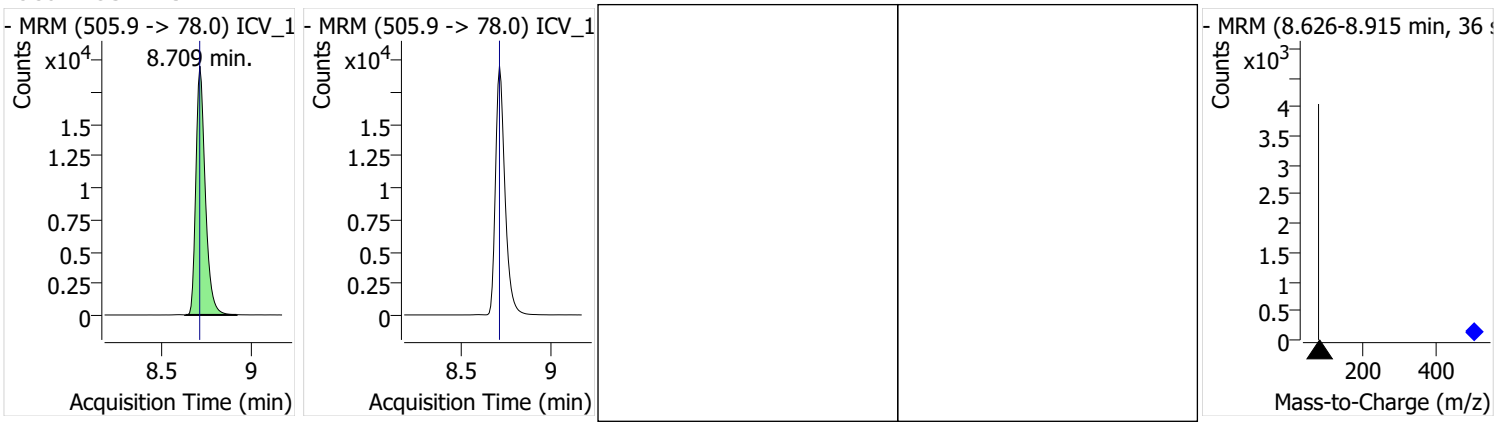
13C8-PFOA - ISTD



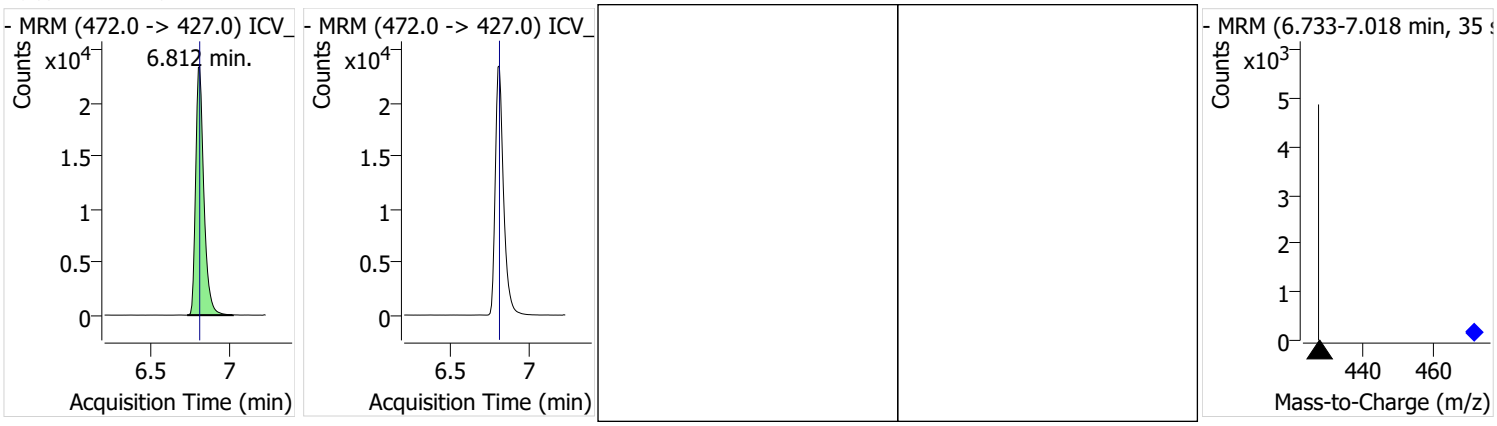
13C8-PFOS - ISTD



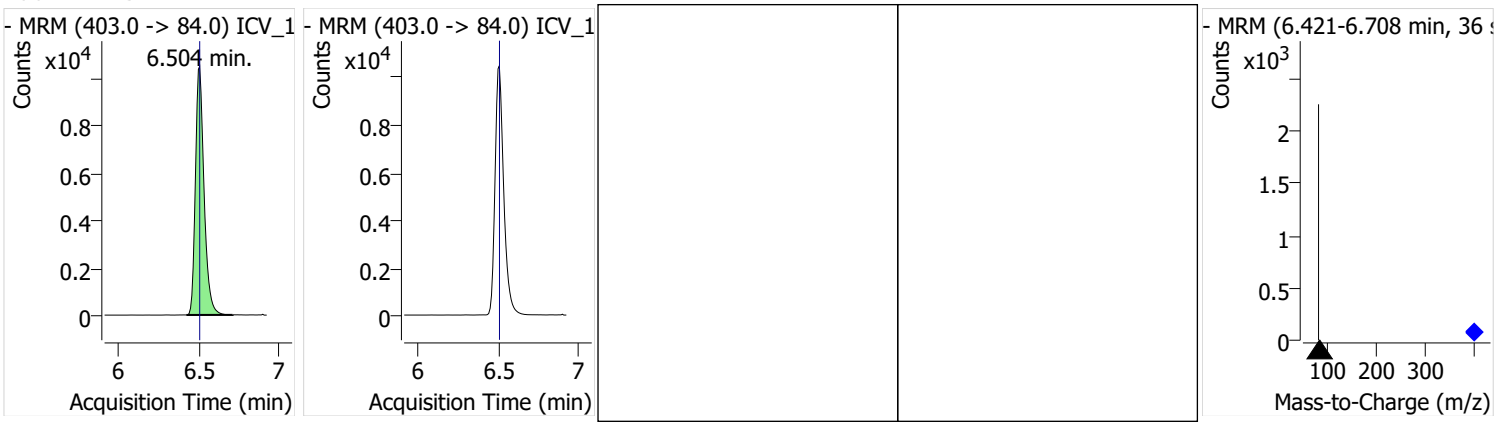
13C8-PFOSA - ISTD



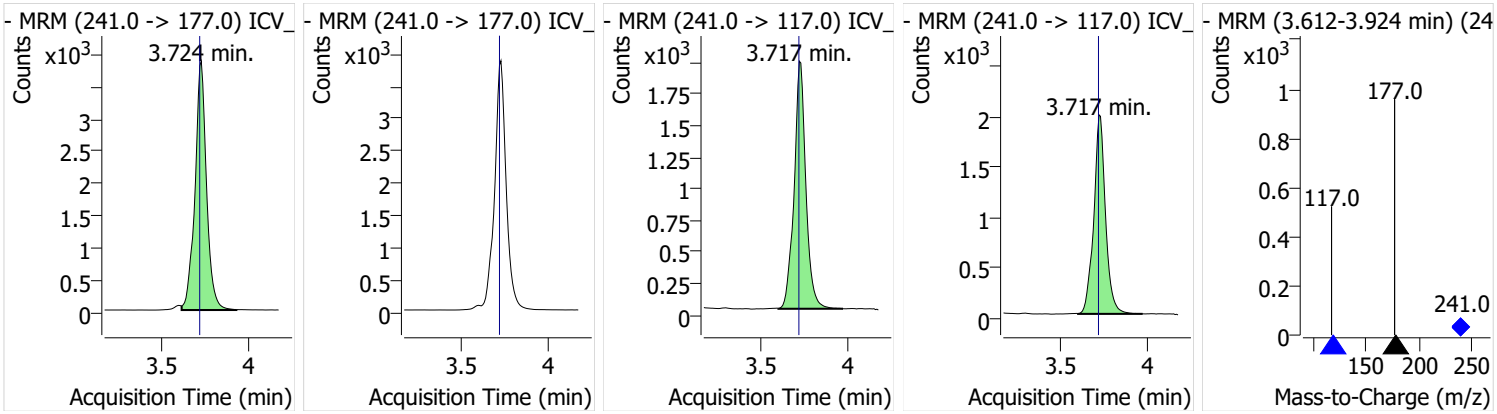
13C9-PFNA - ISTD



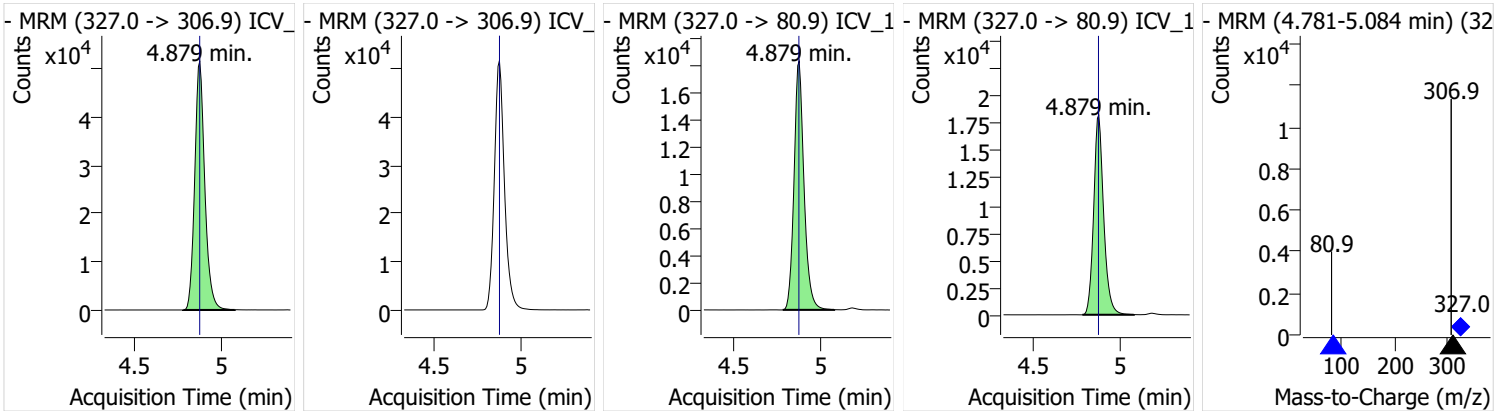
18O2-PFHxS



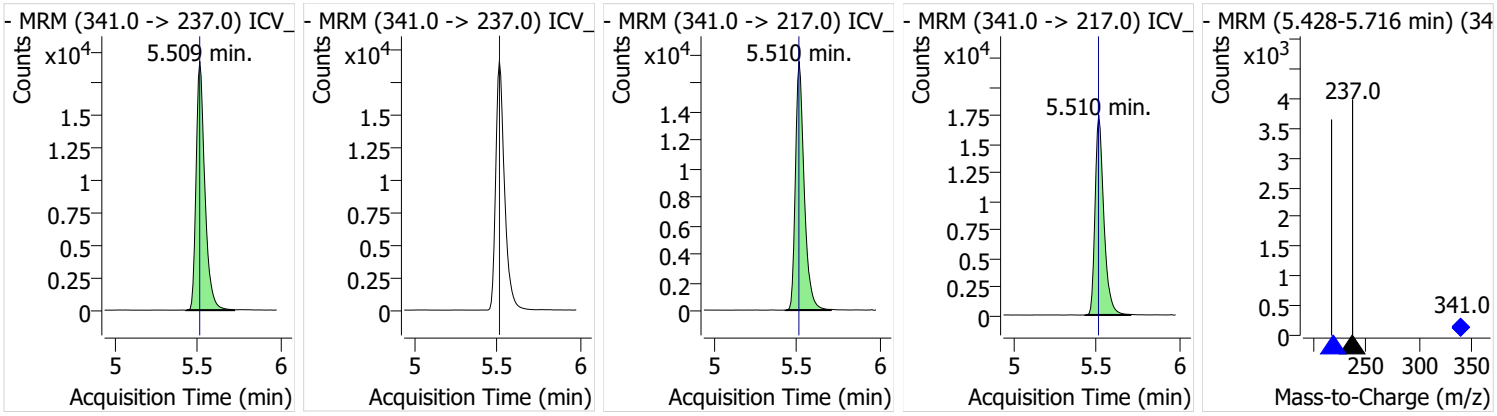
3:3FTCA



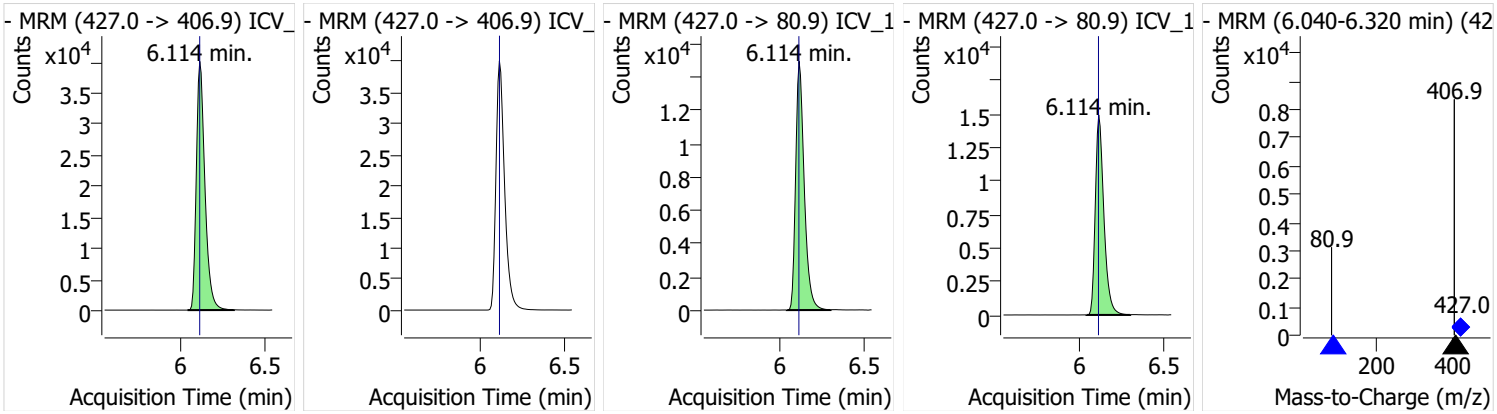
4:2FTS



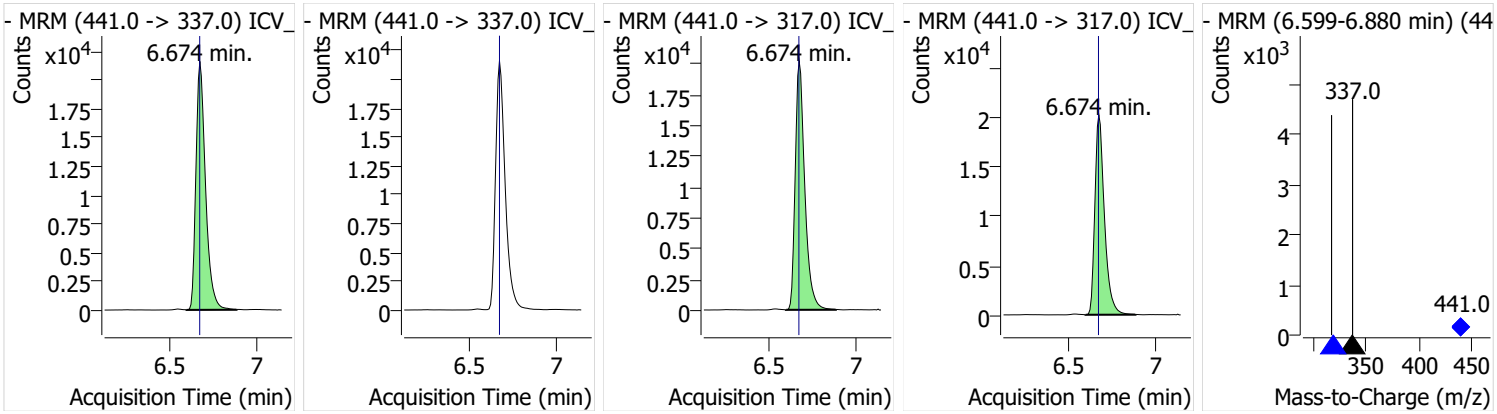
5:3FTCA



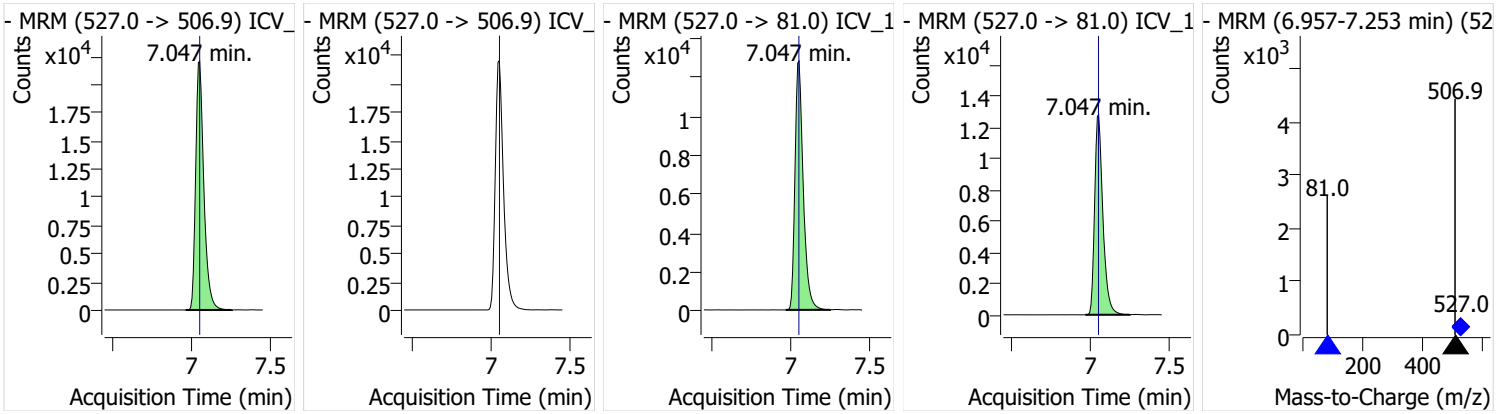
6:2FTS



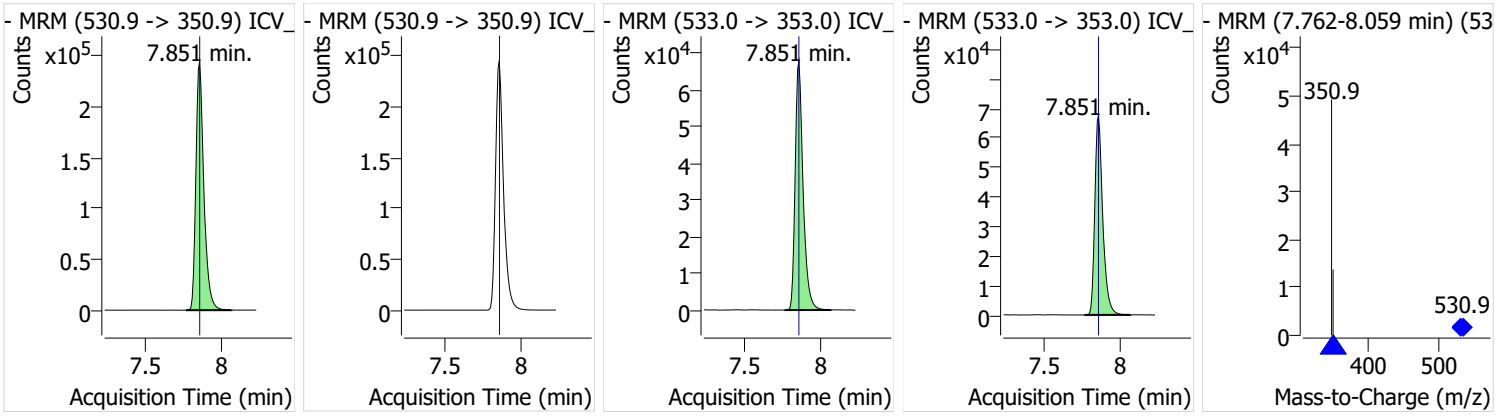
7:3FTCA



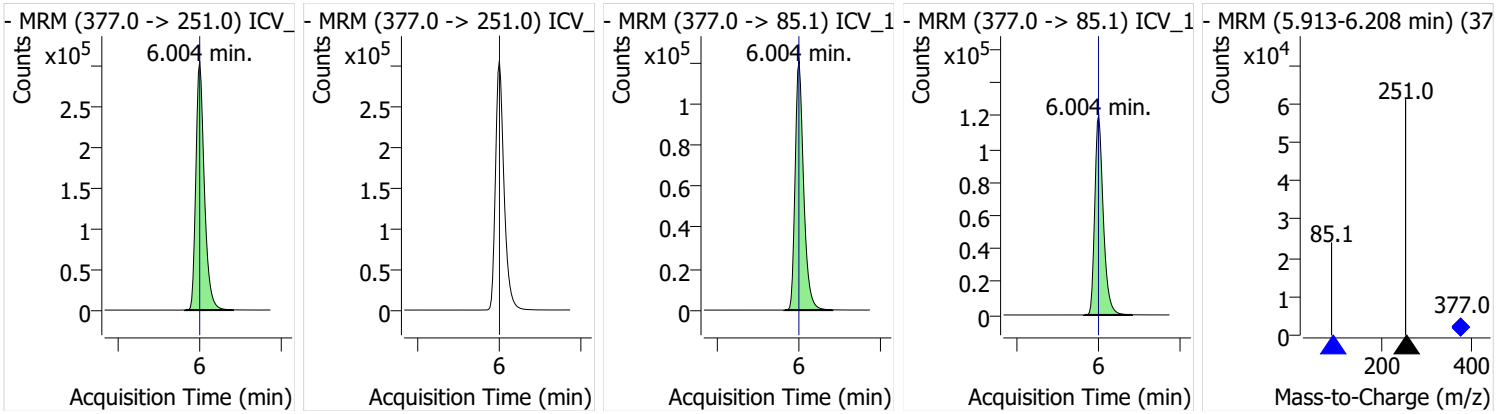
8:2FTS



9Cl-PF3ONS

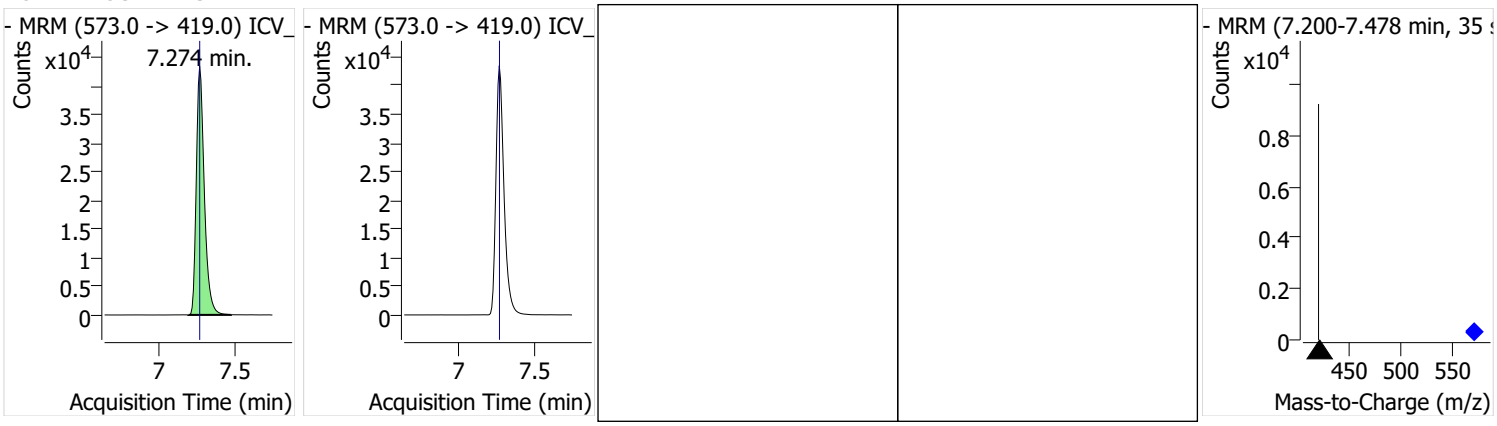


ADONA

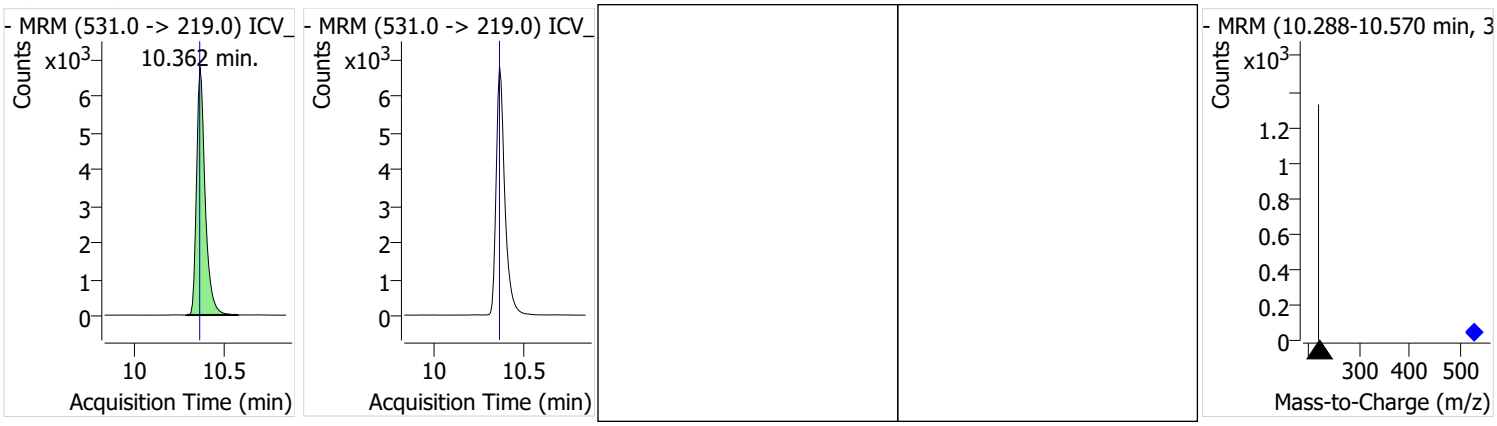


D3-NMeFOSA - ISTD

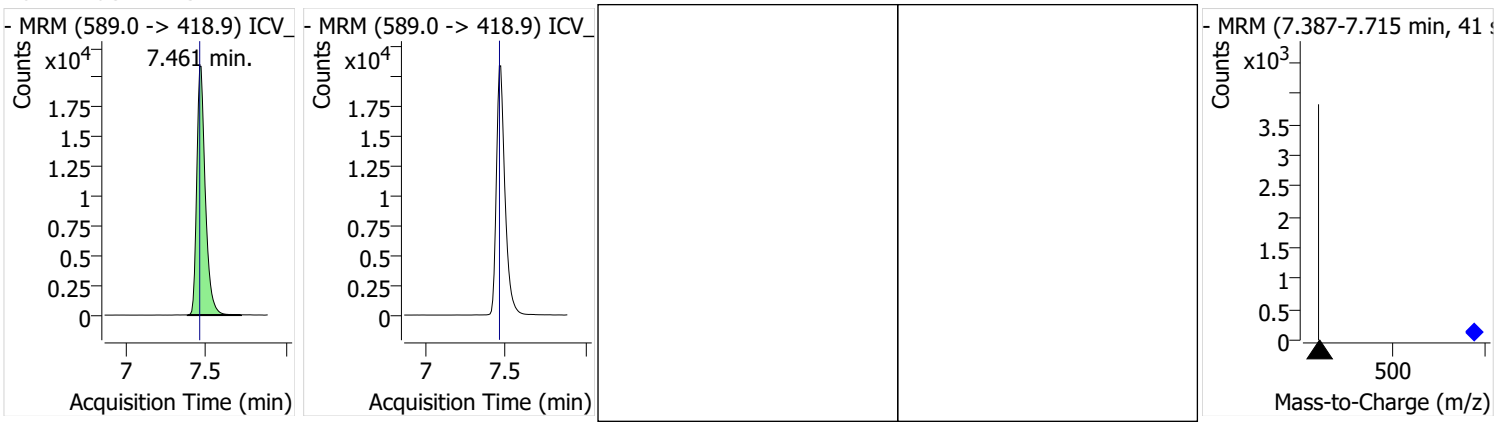
D3-NMeFOSAA - ISTD



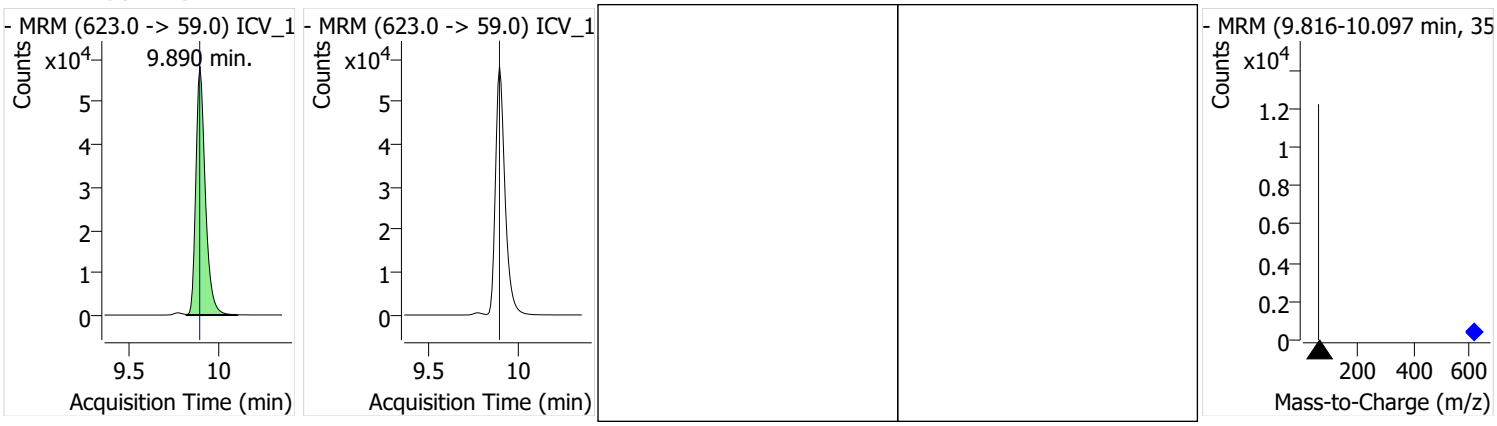
D5-NEtFOSA - ISTD



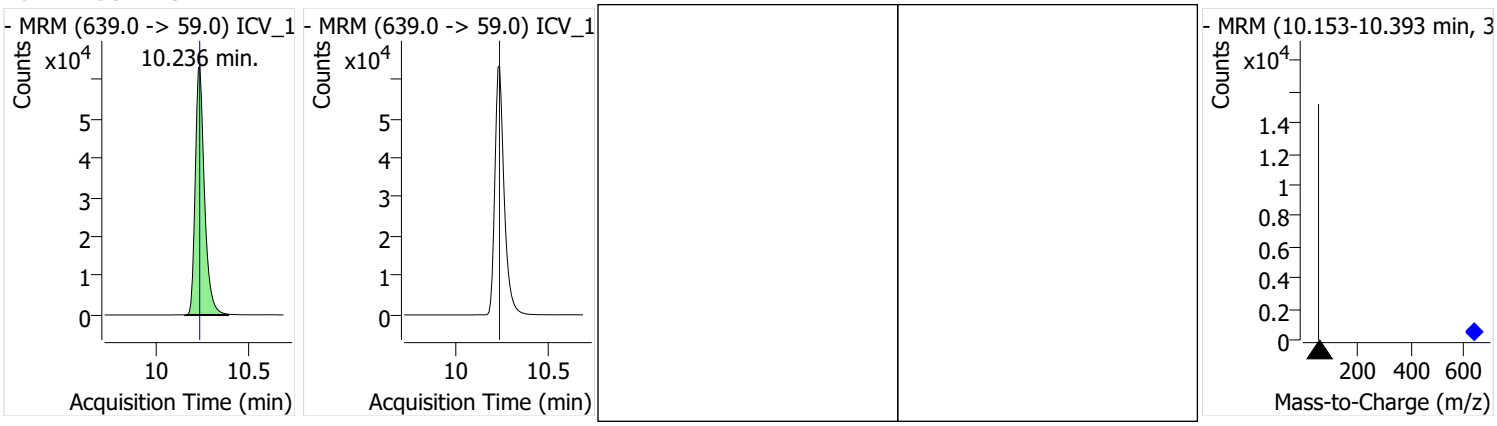
D5-NEtFOSAA - ISTD



D7-NMeFOSE - ISTD



D9-NEtFOSE - ISTD



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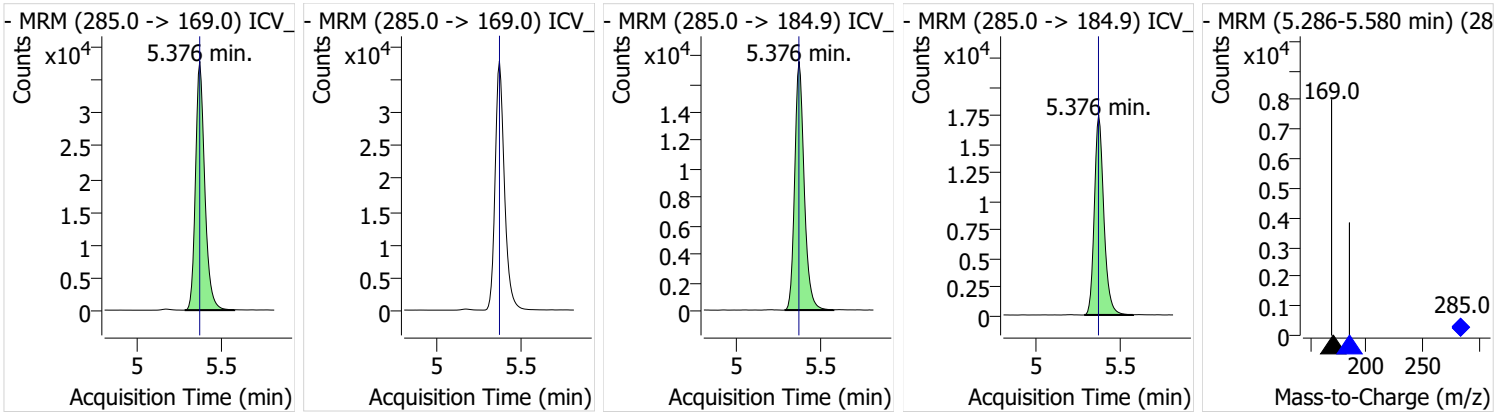

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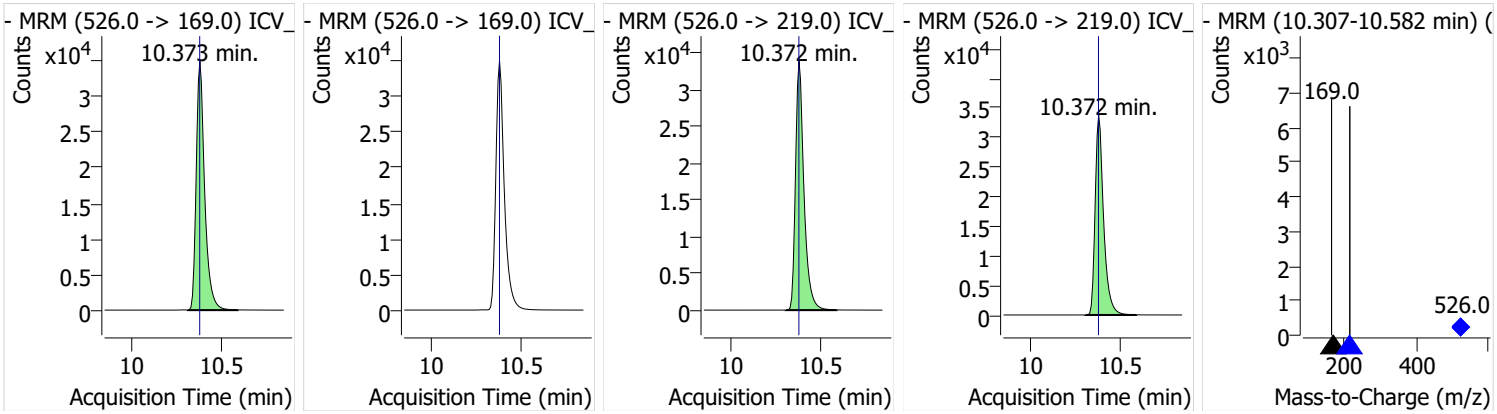

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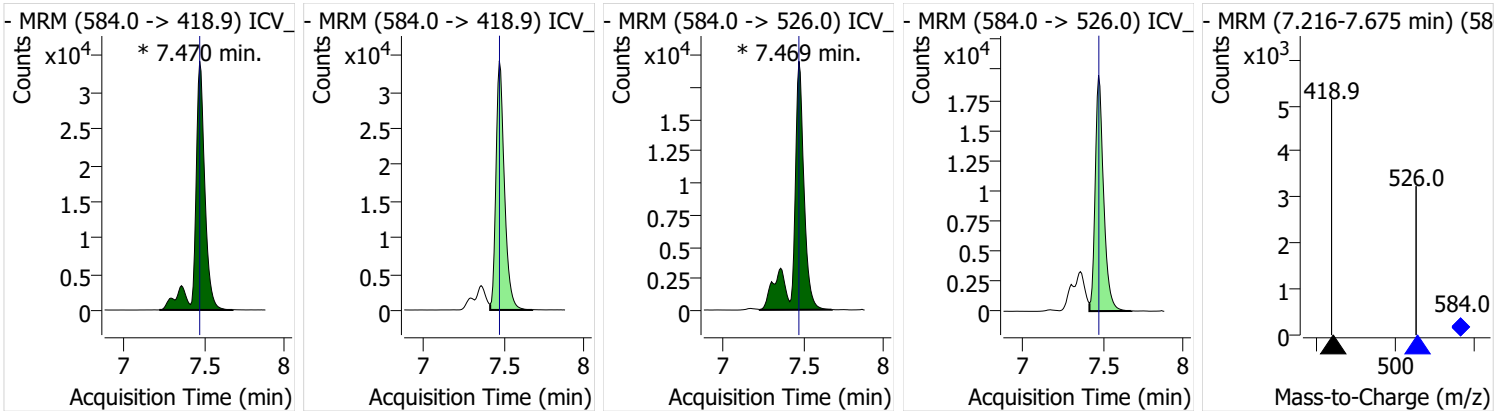

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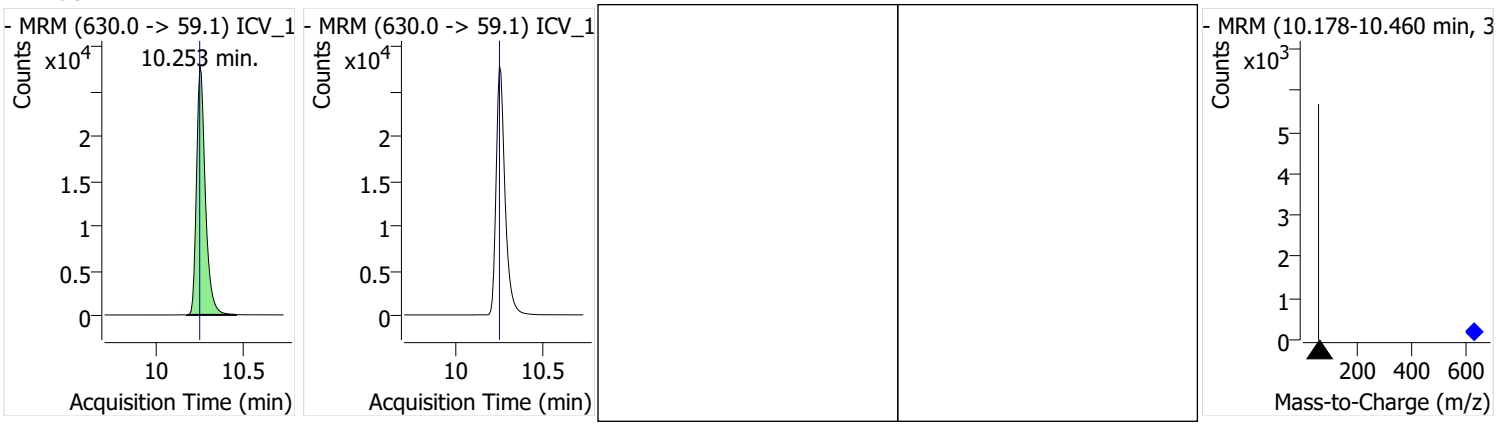

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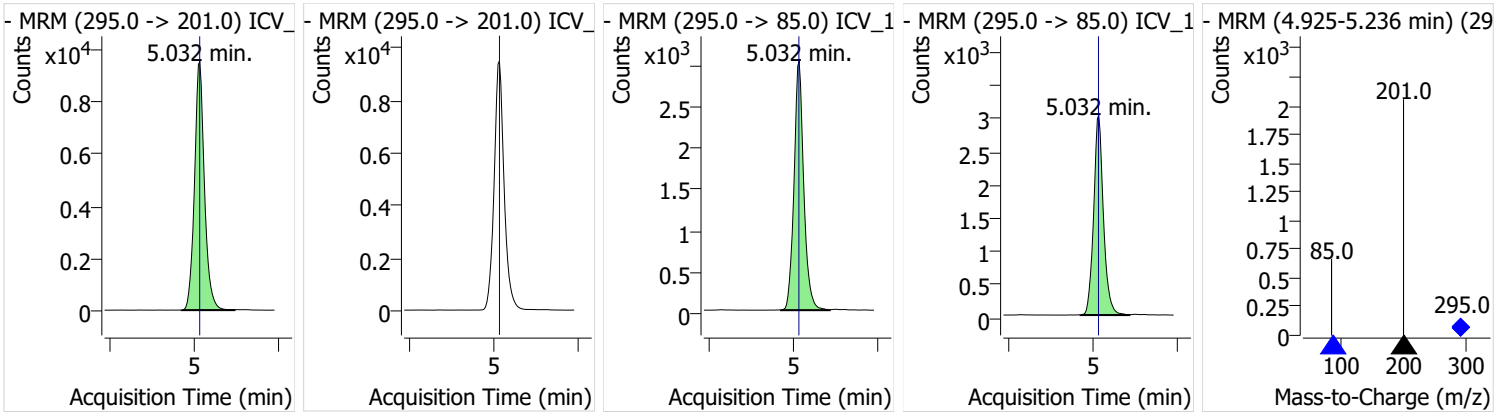

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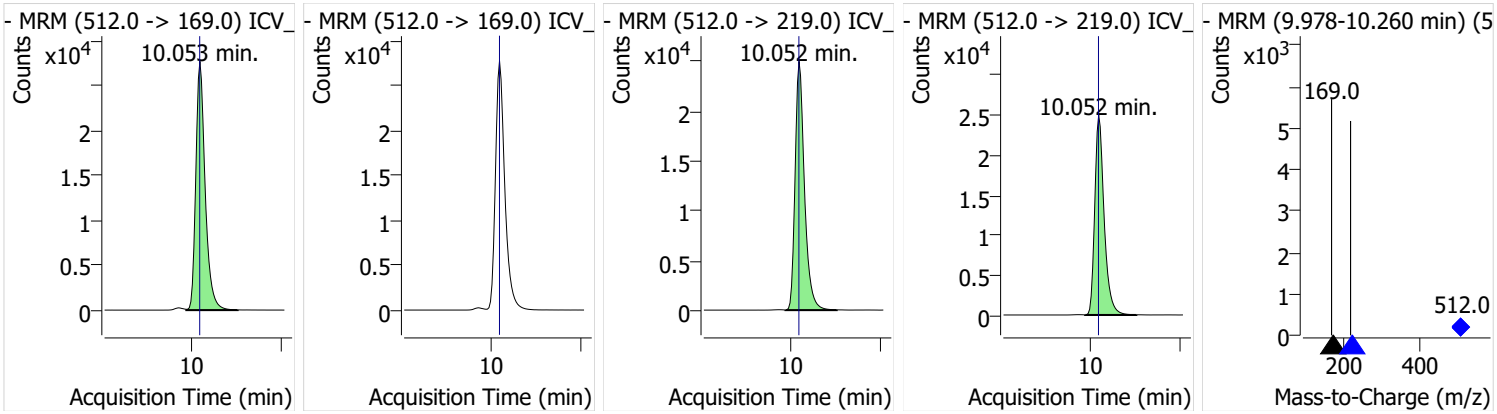

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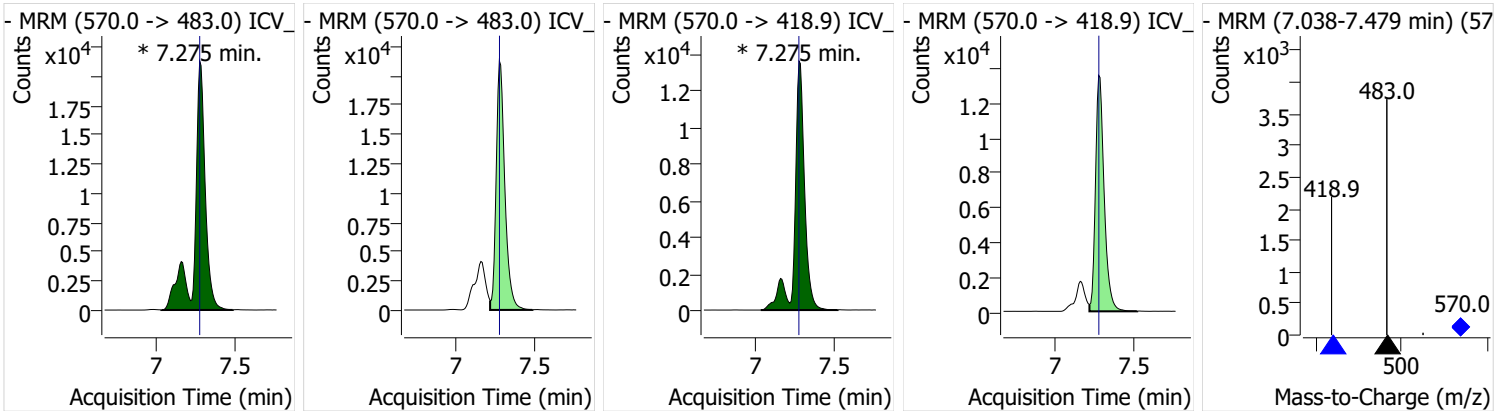

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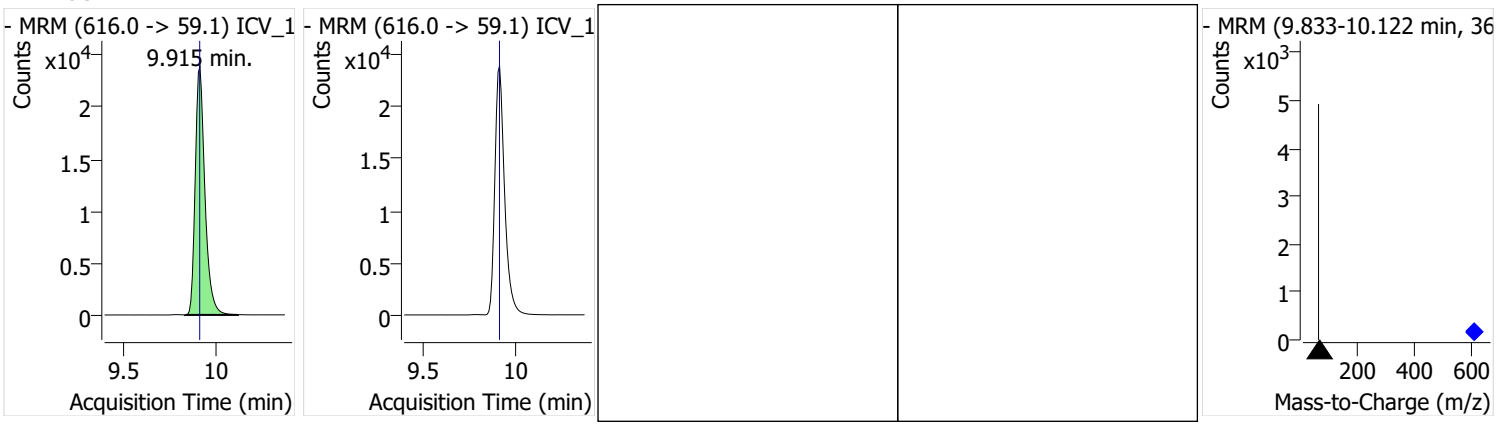

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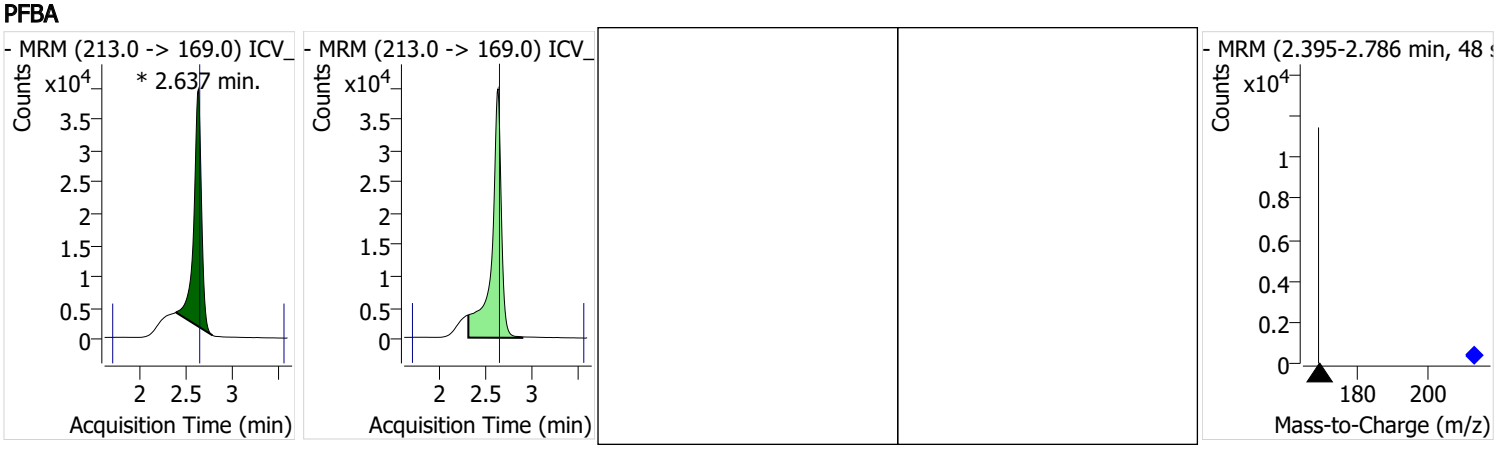

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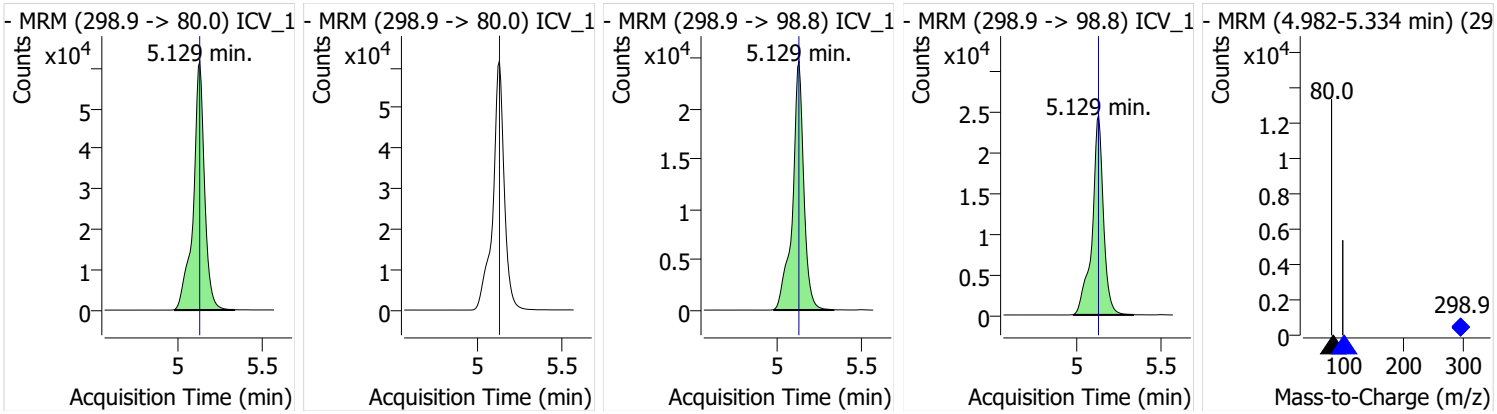

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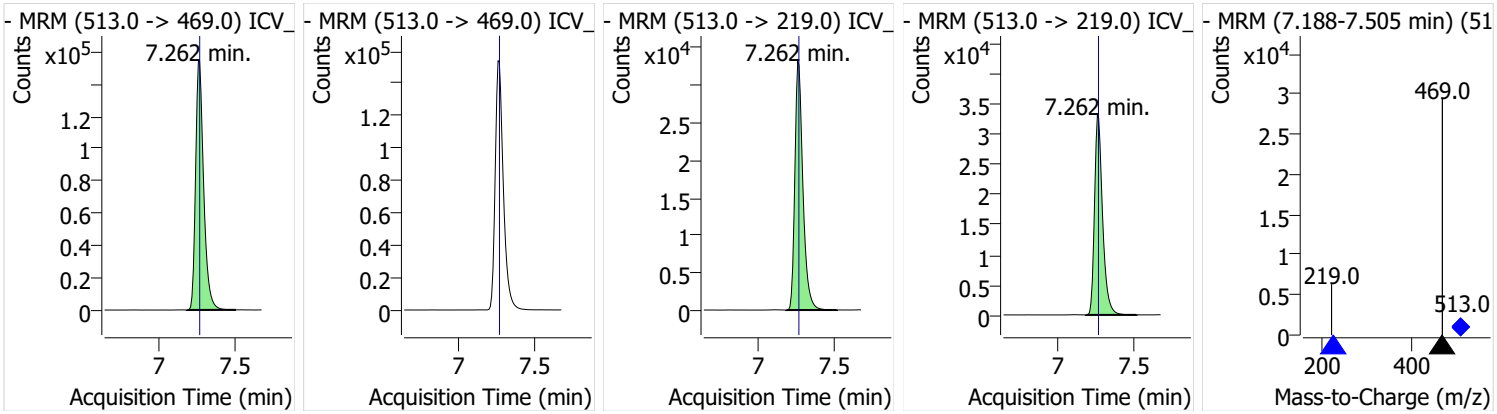

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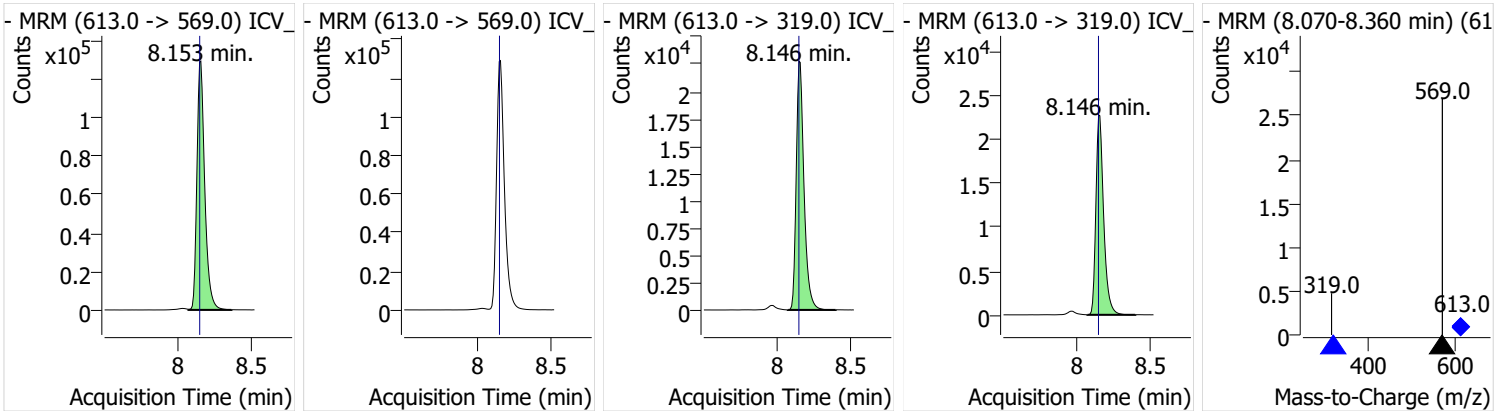

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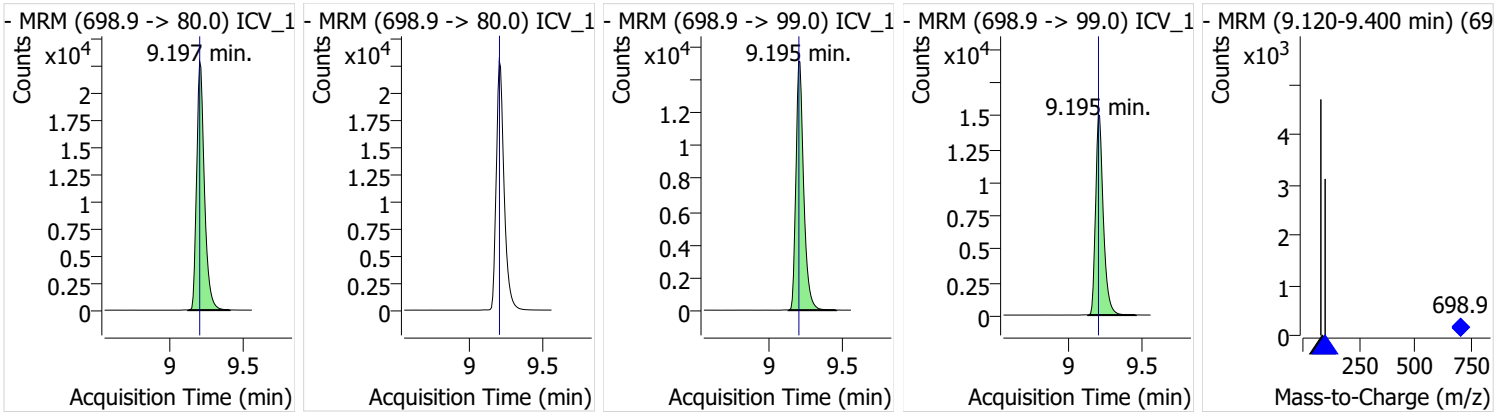

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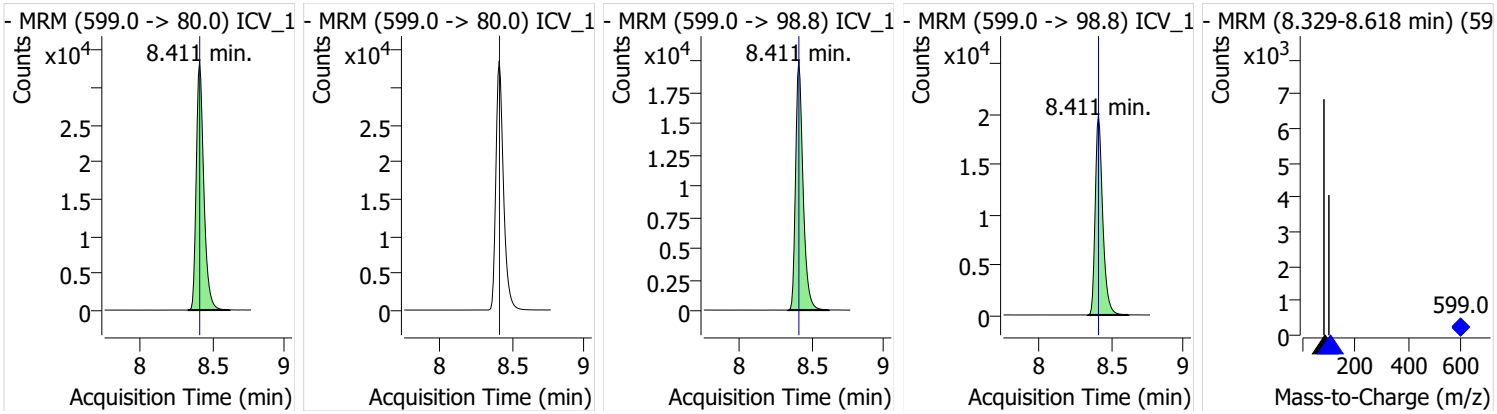

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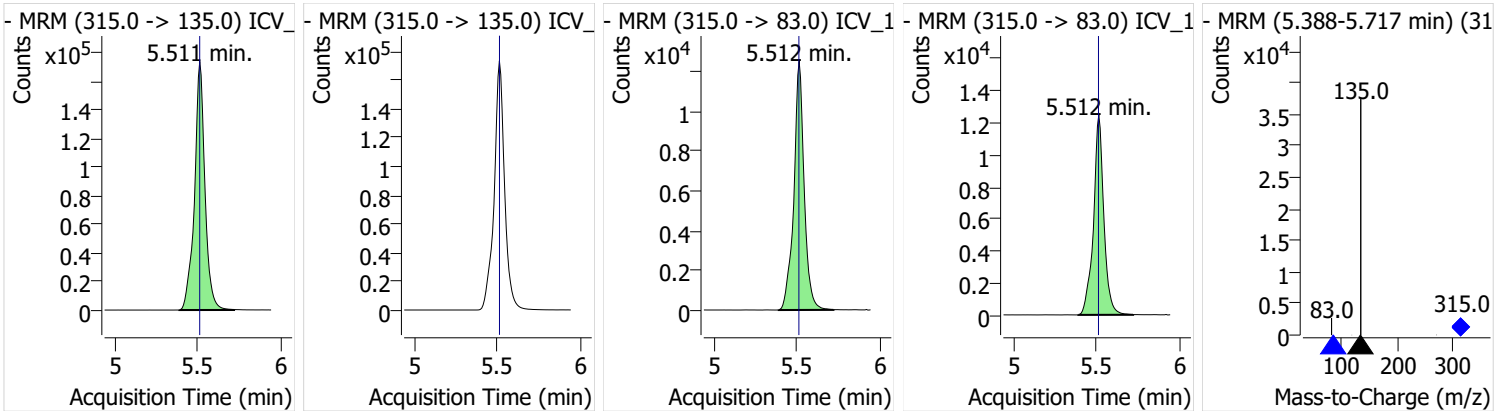

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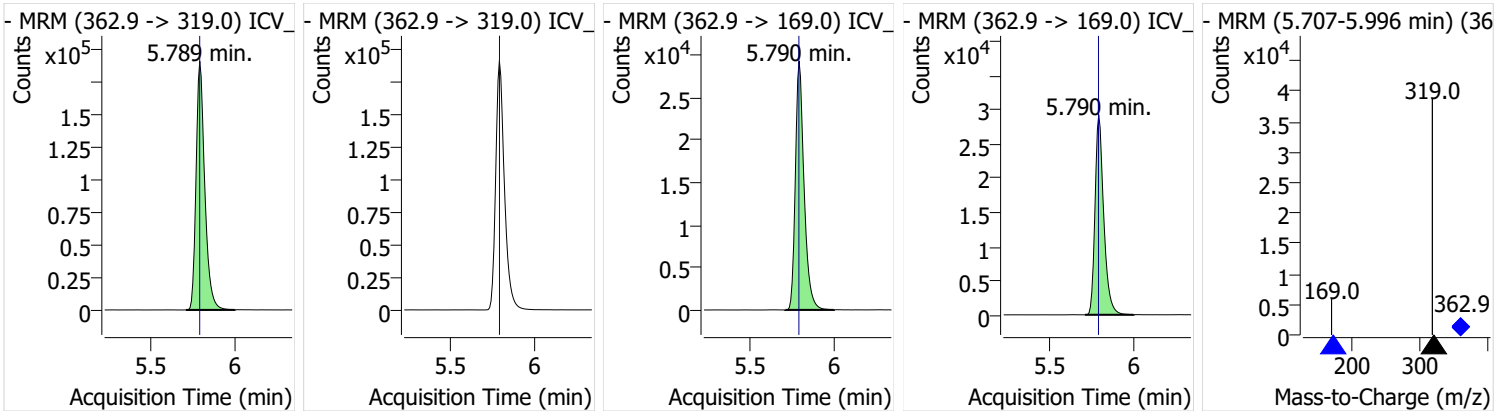

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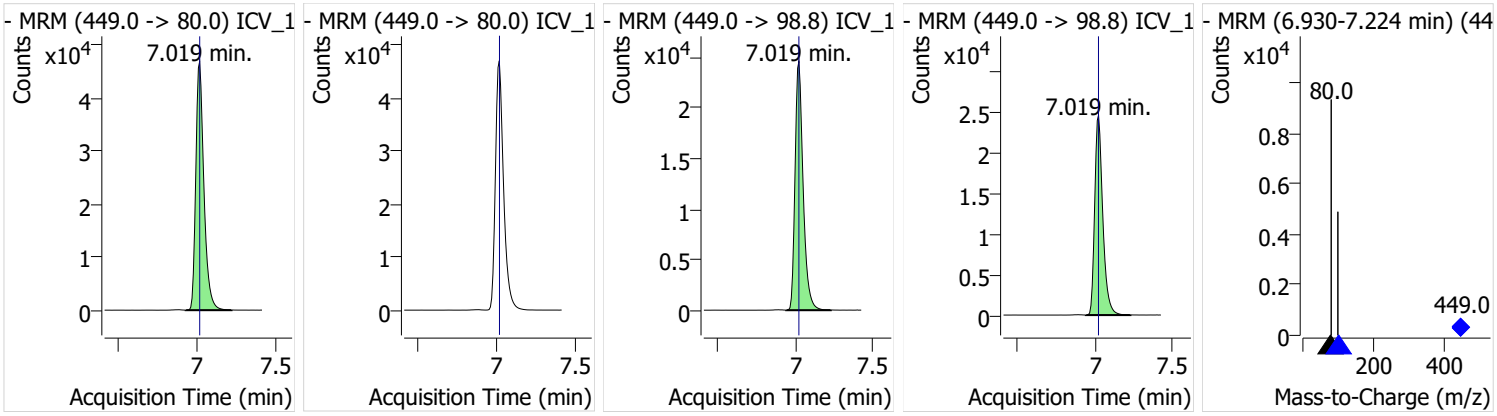

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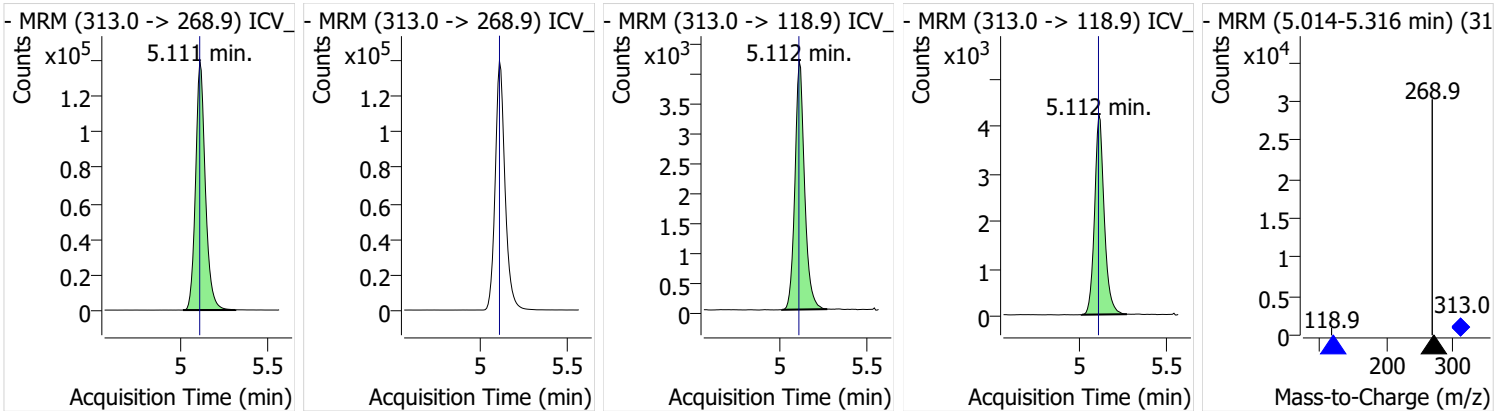

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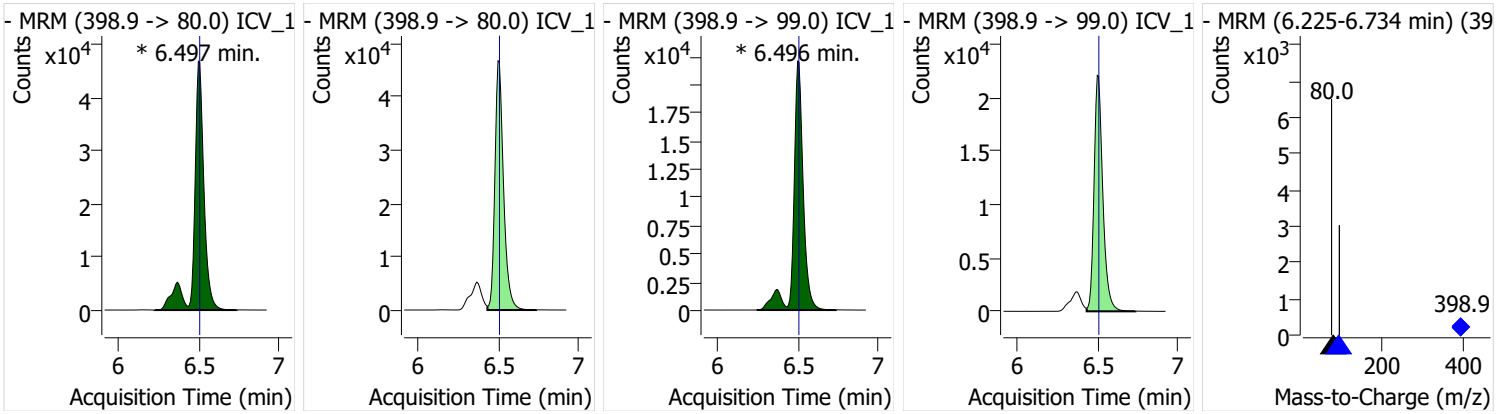

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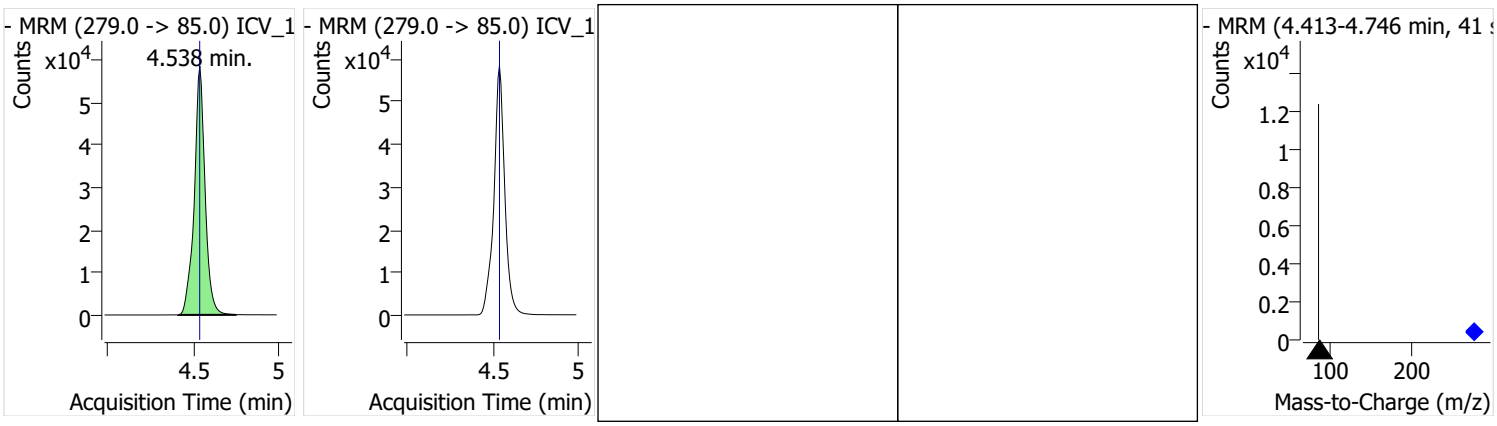

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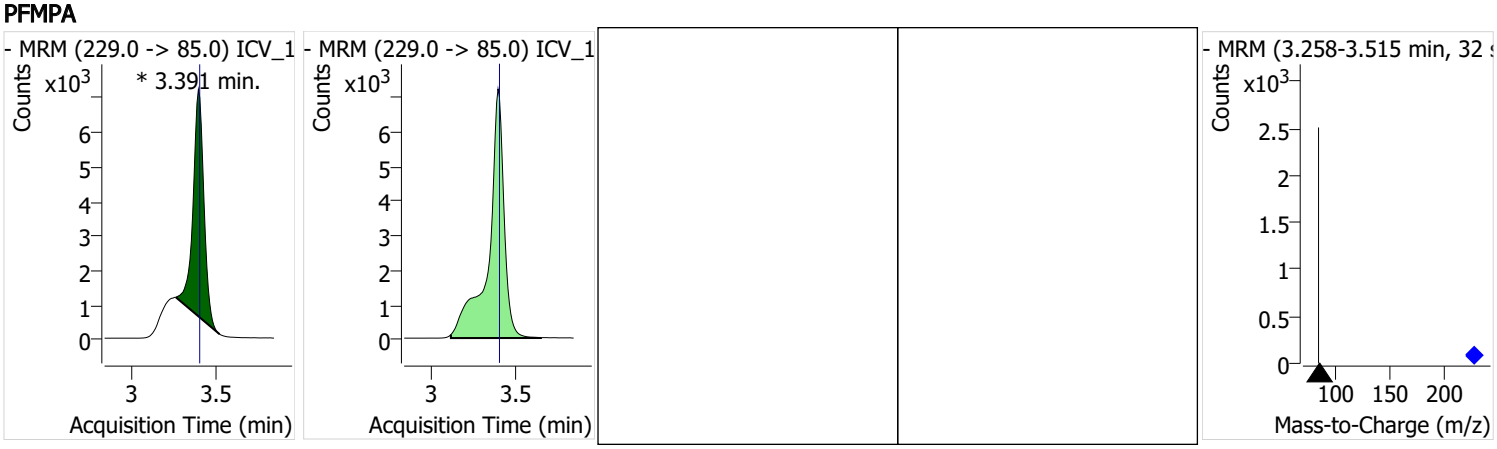

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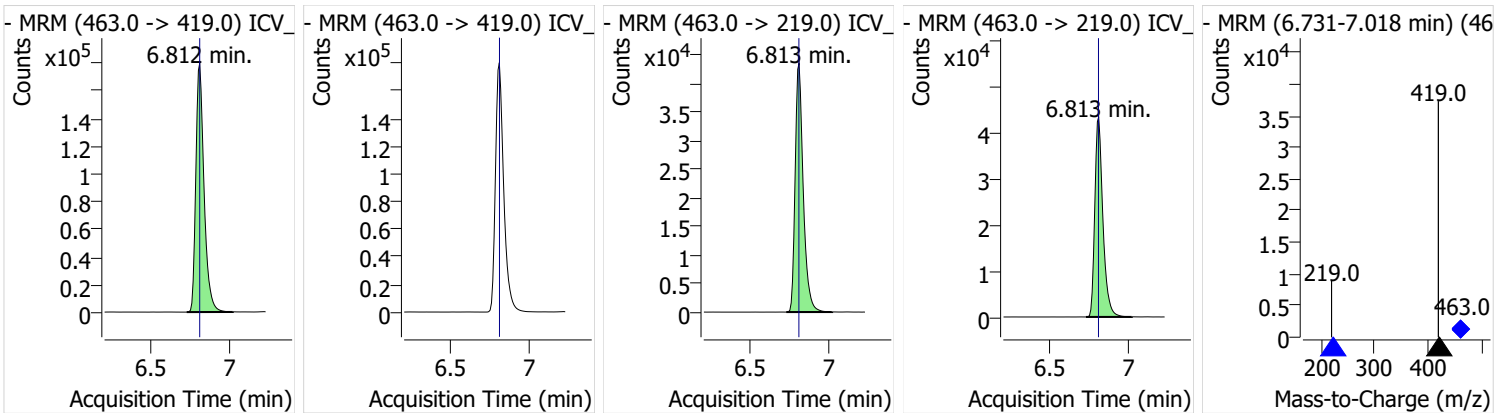

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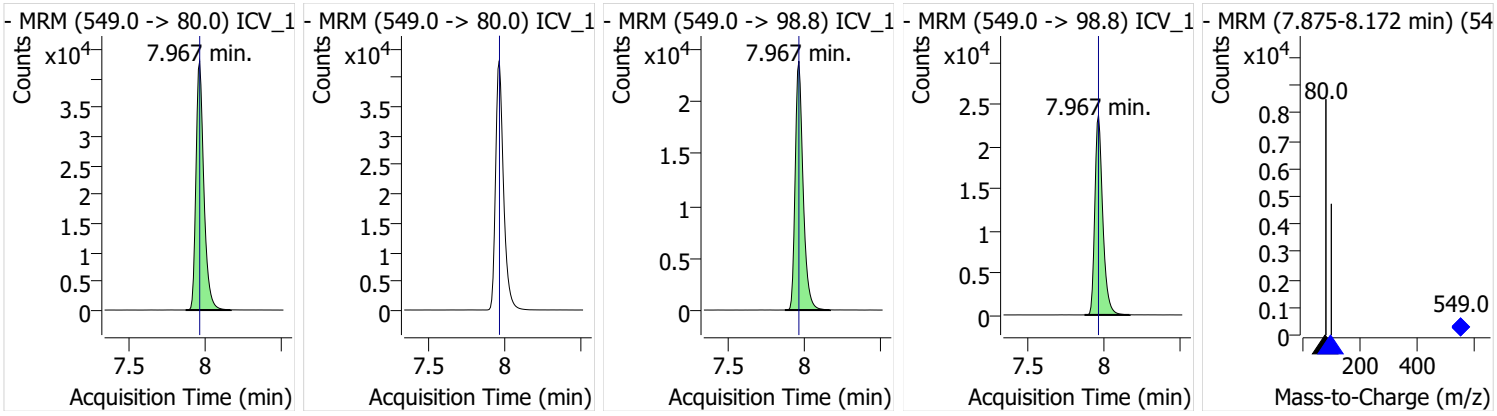

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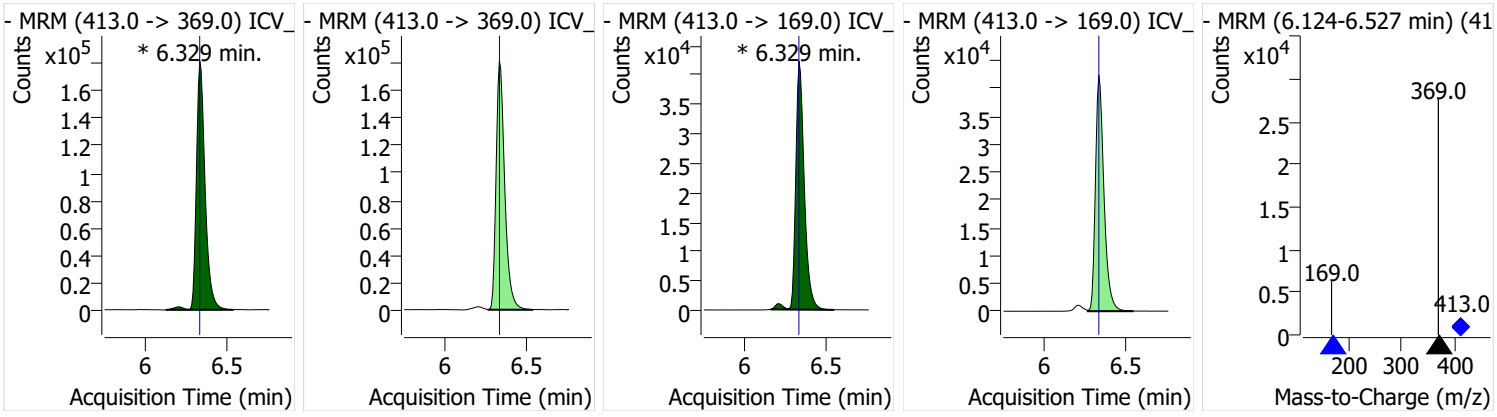

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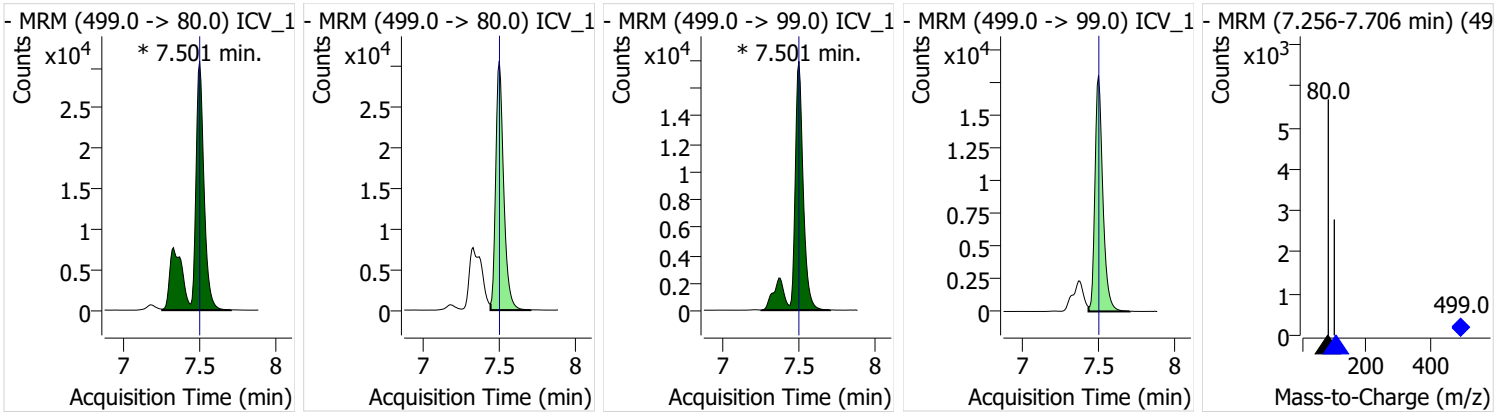

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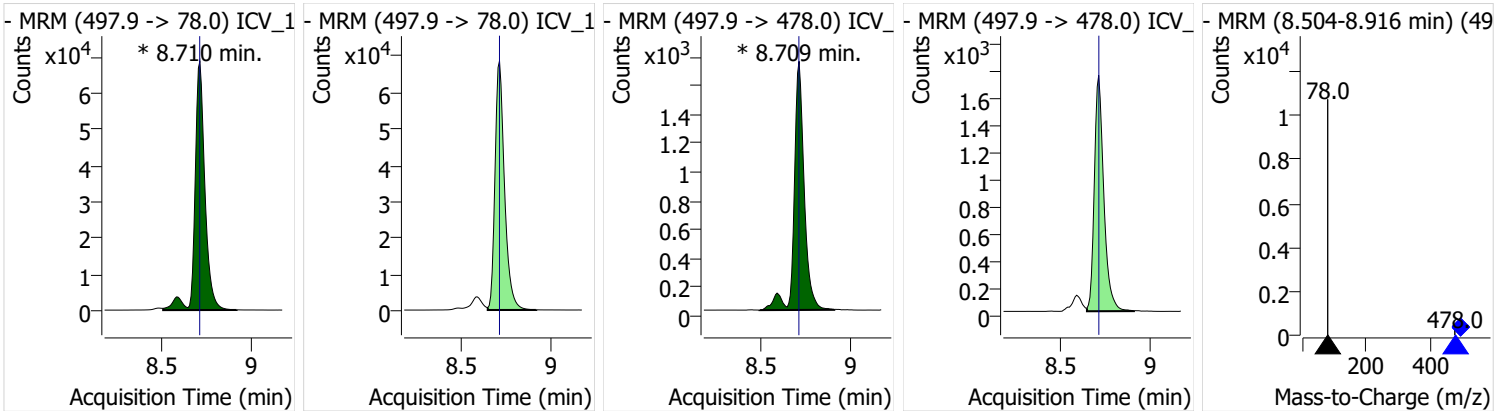

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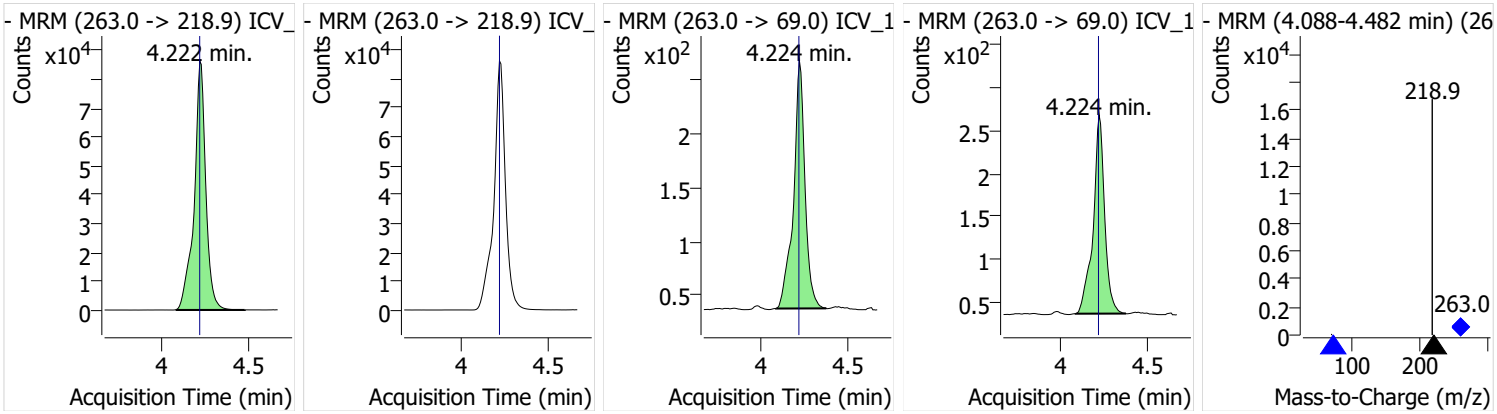

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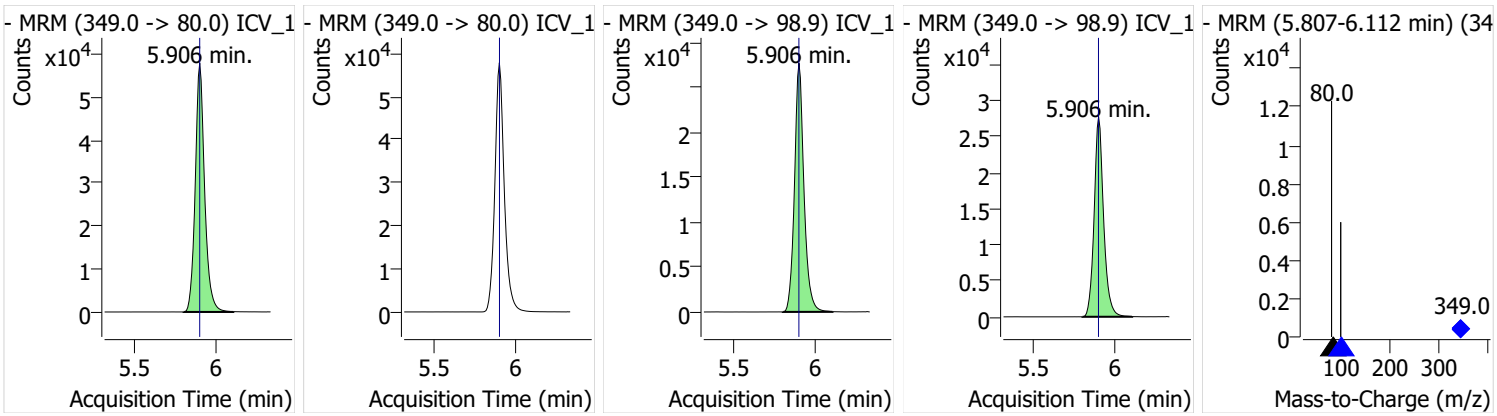

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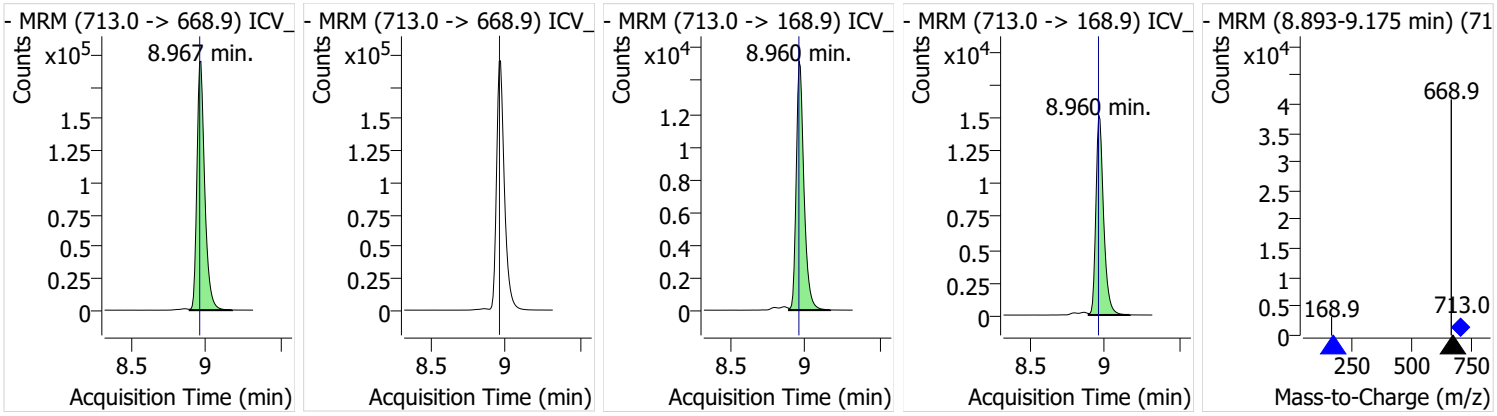

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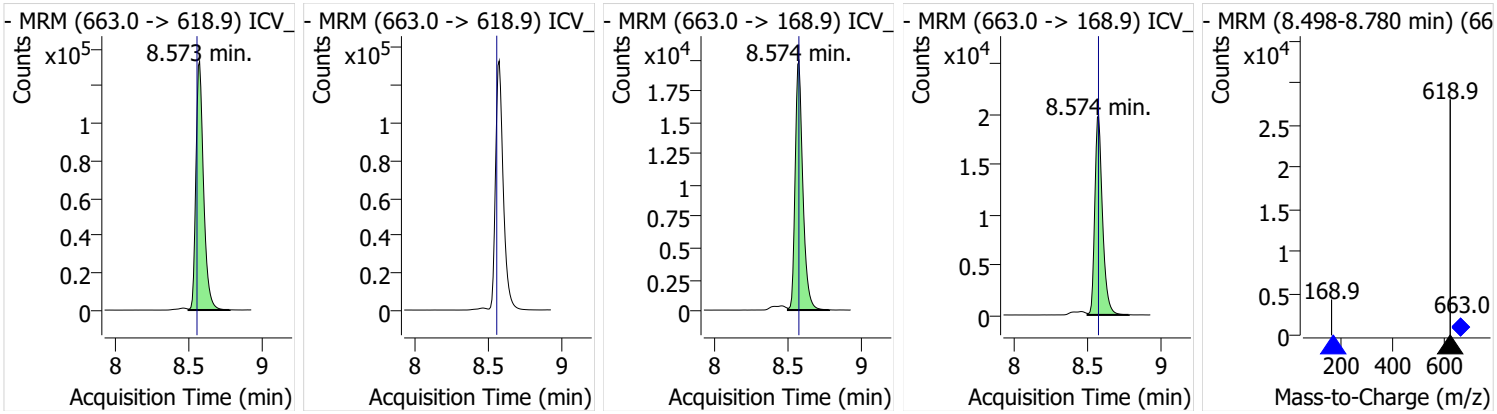

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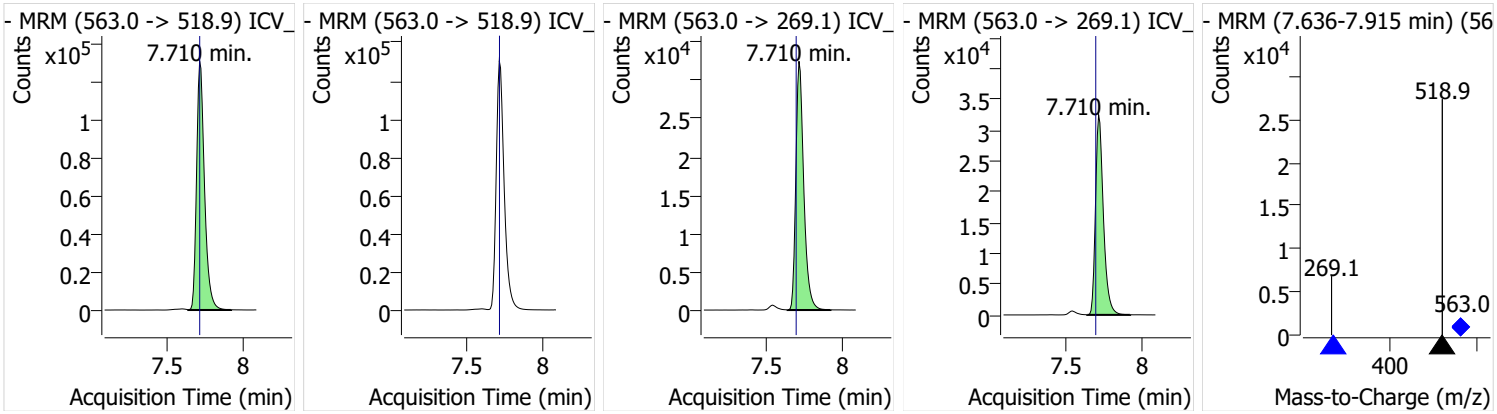

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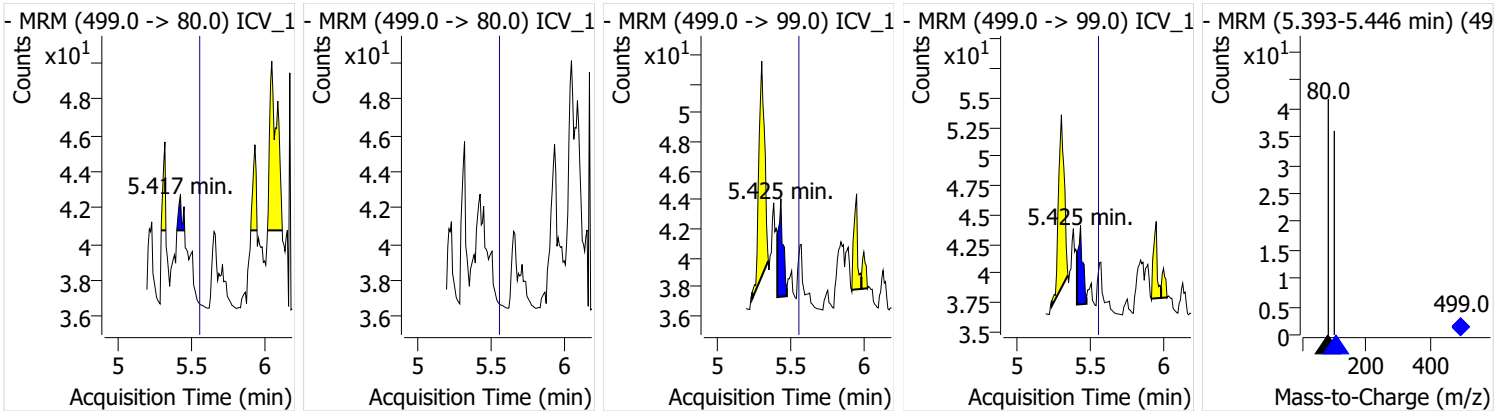

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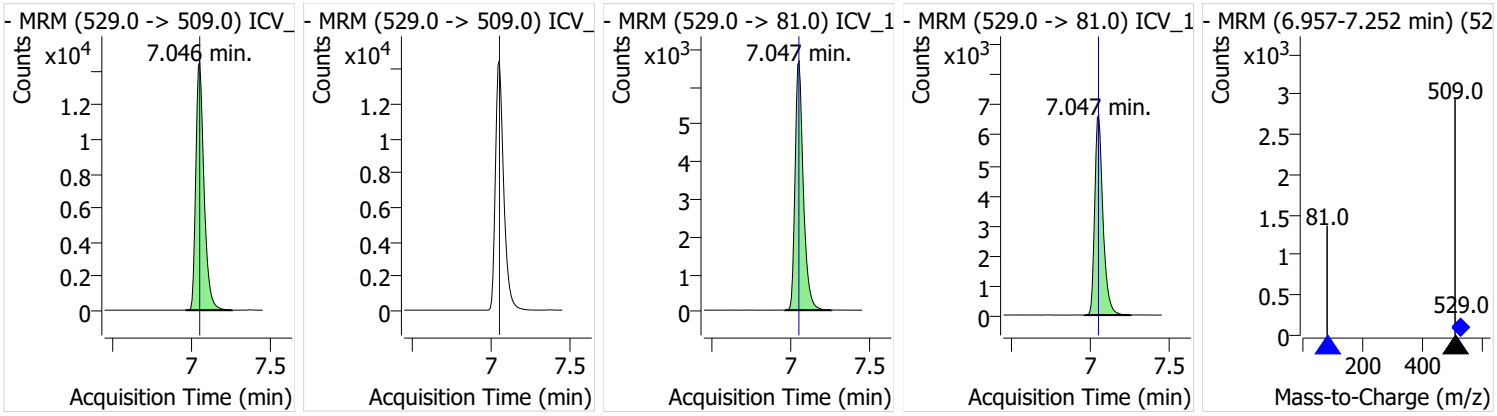

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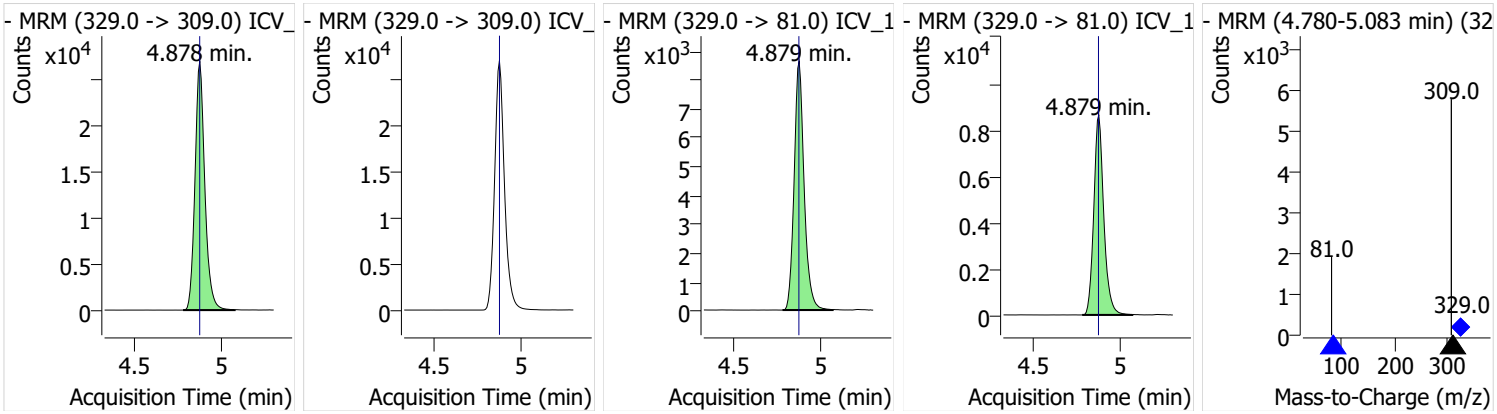

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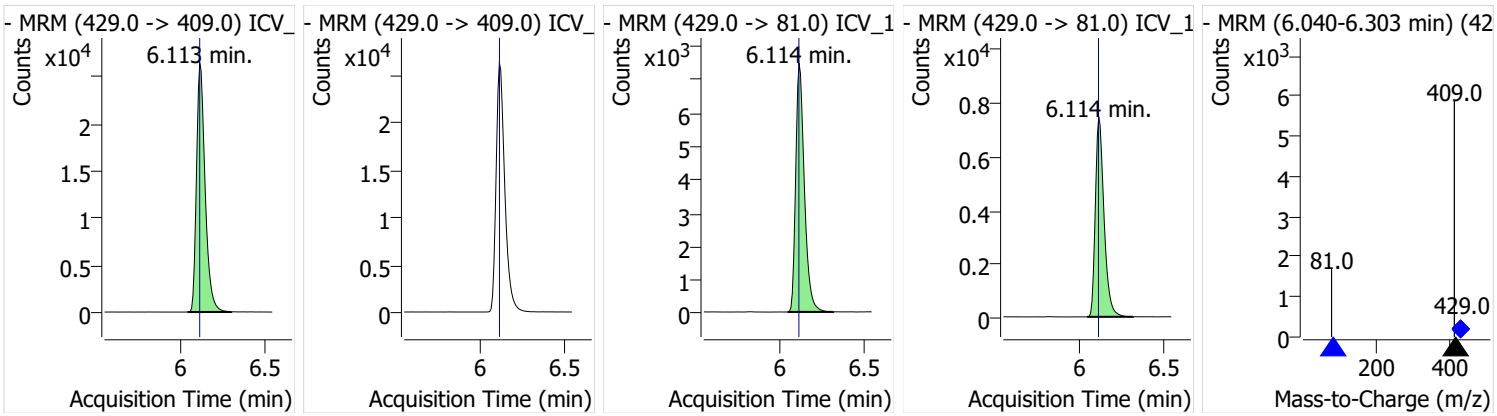

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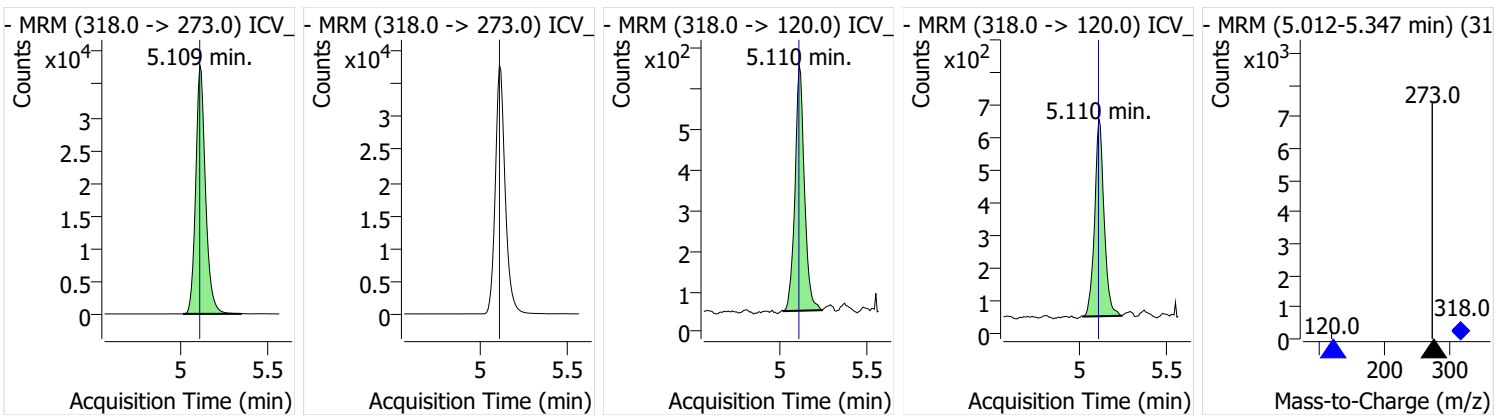

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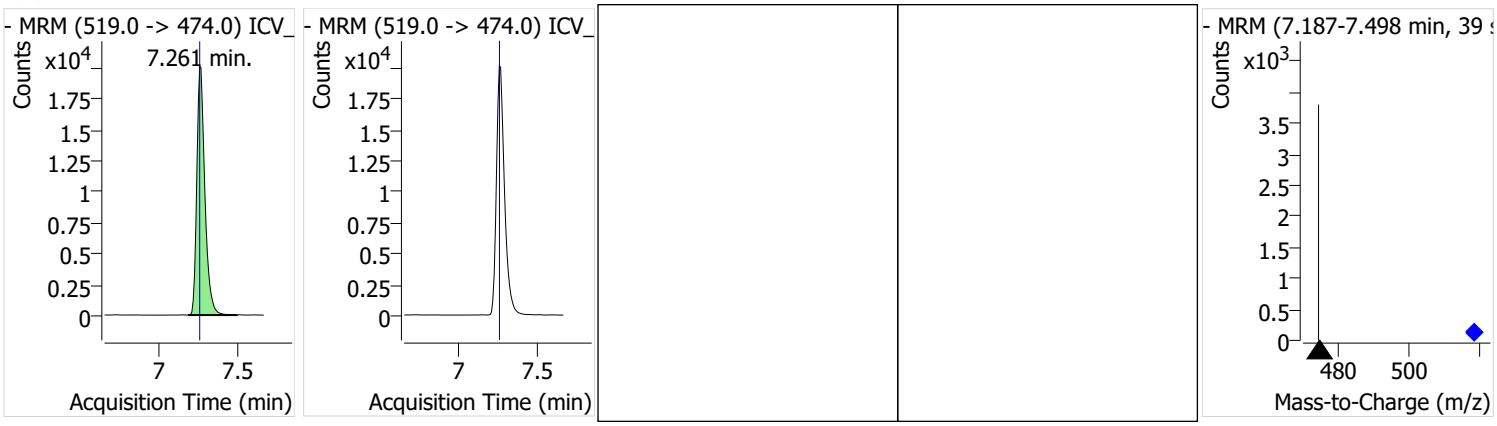

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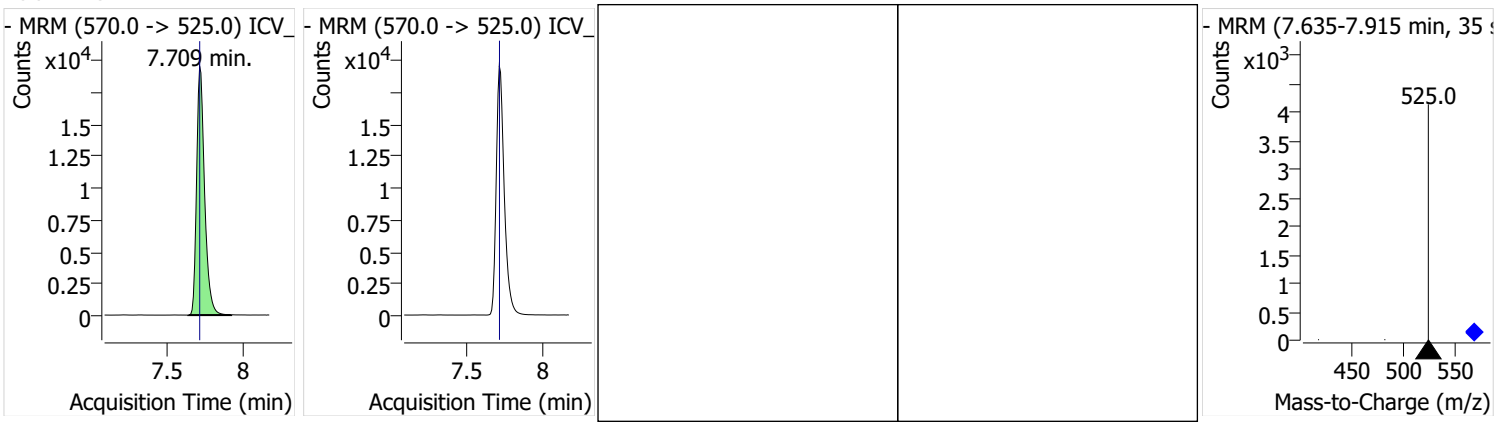

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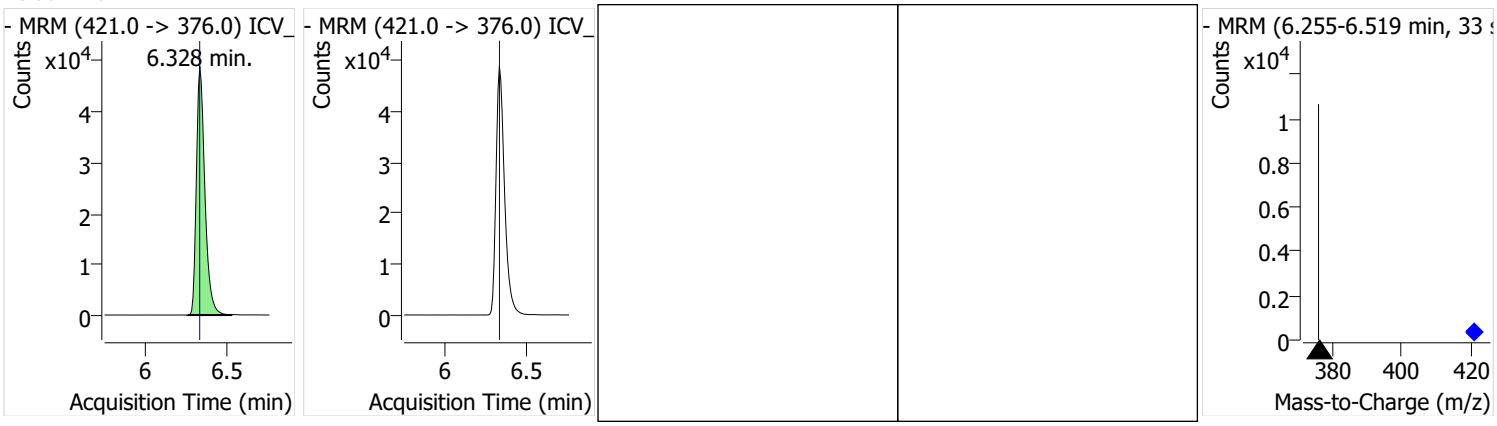

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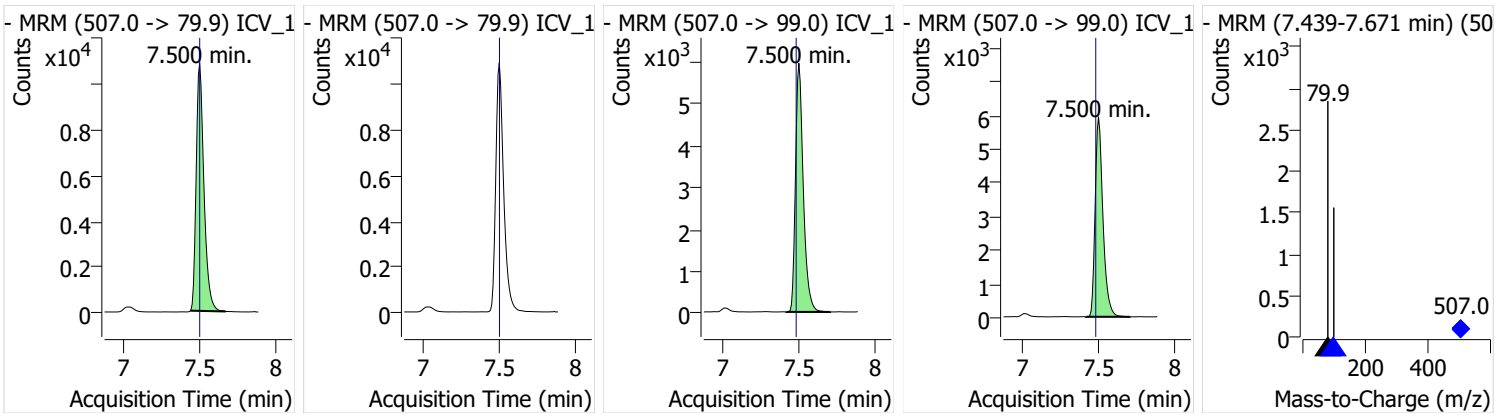

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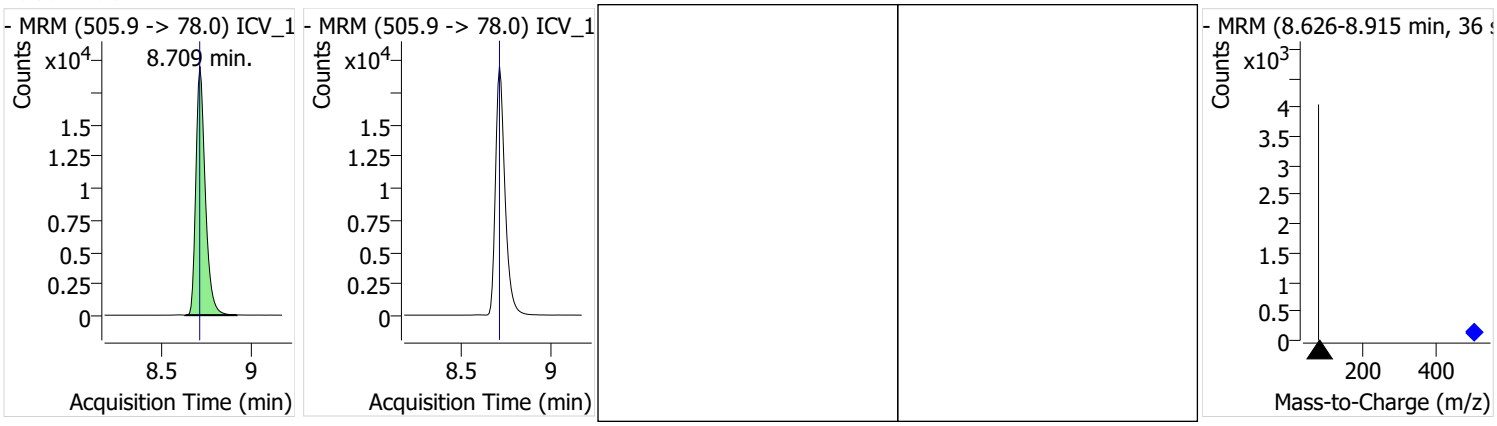

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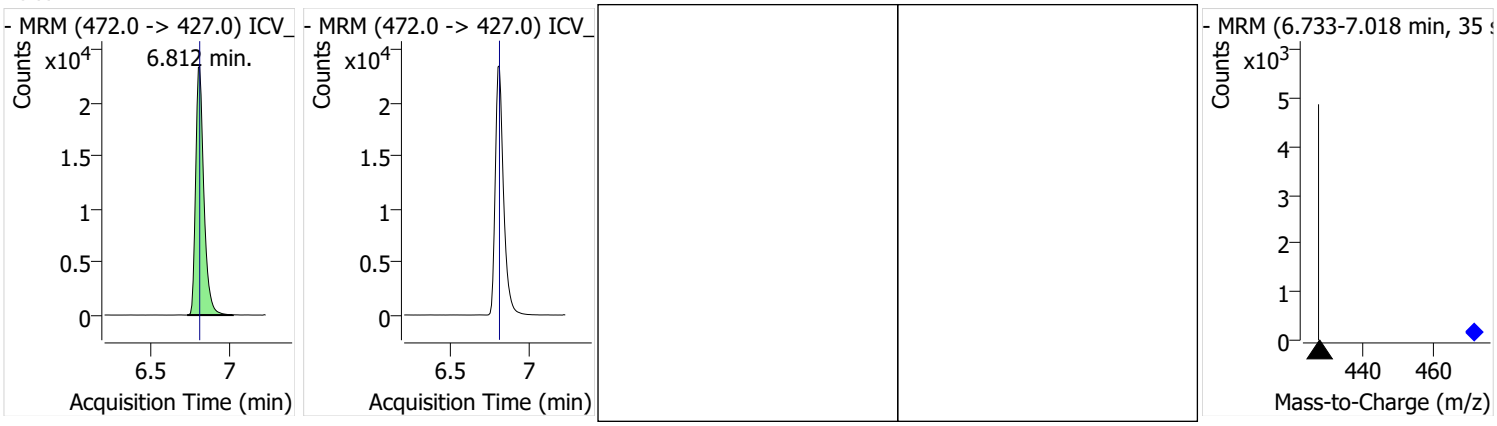

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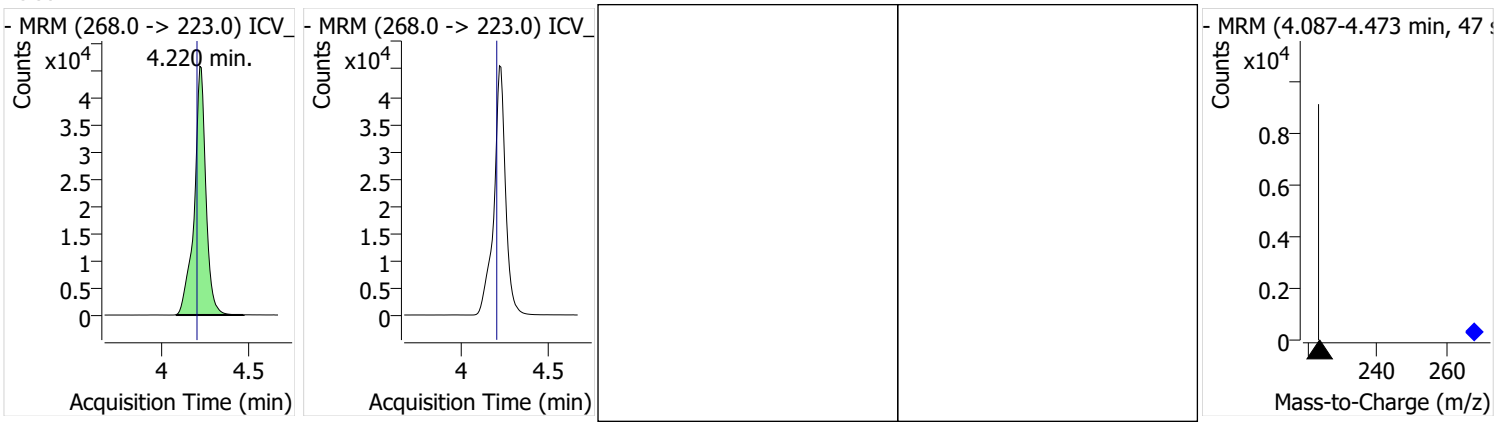

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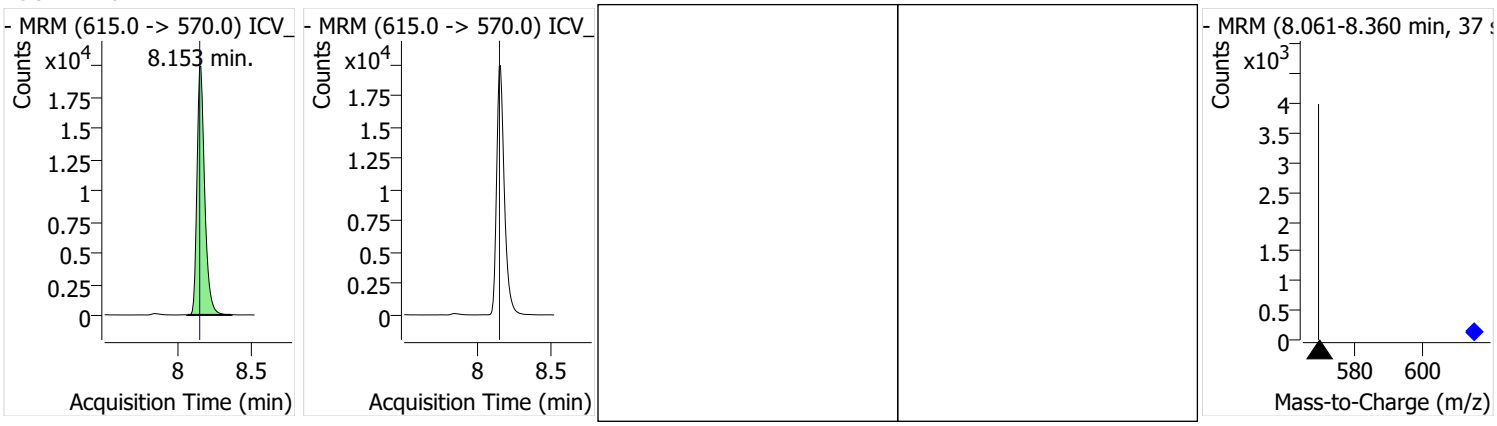

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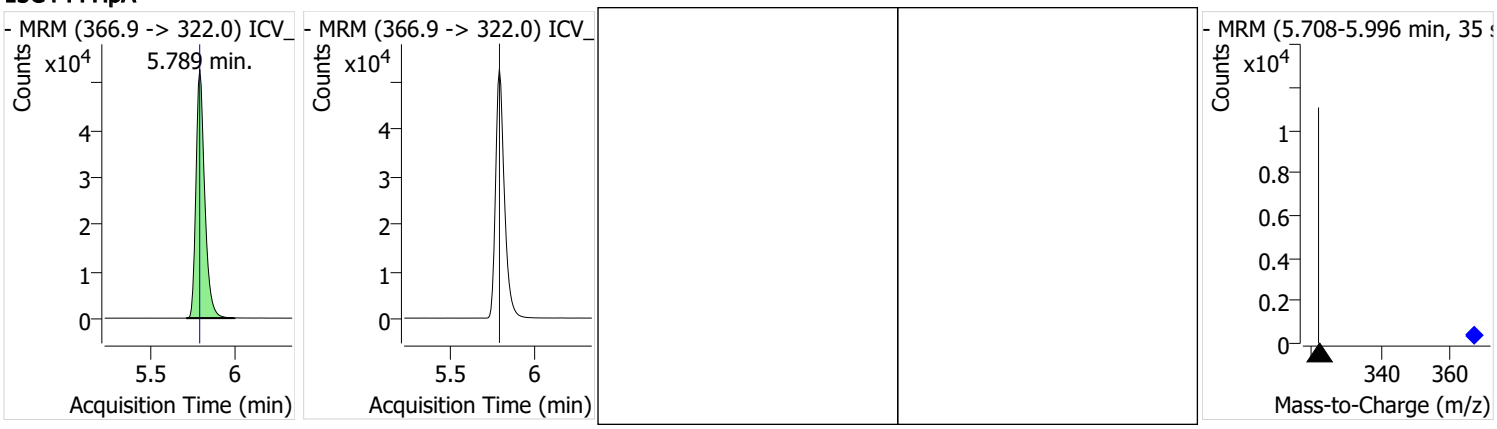

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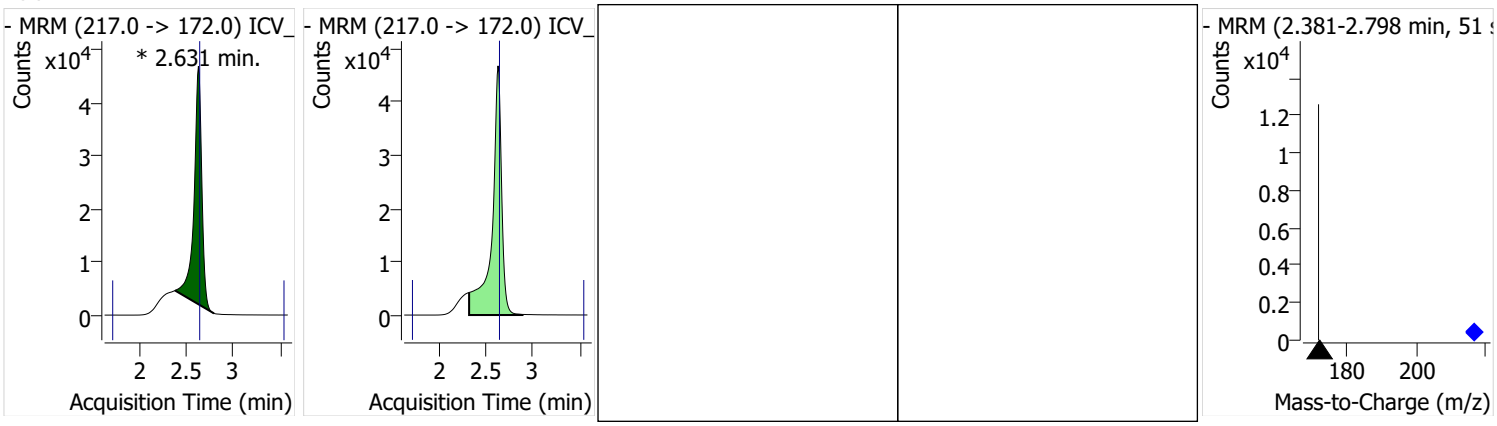

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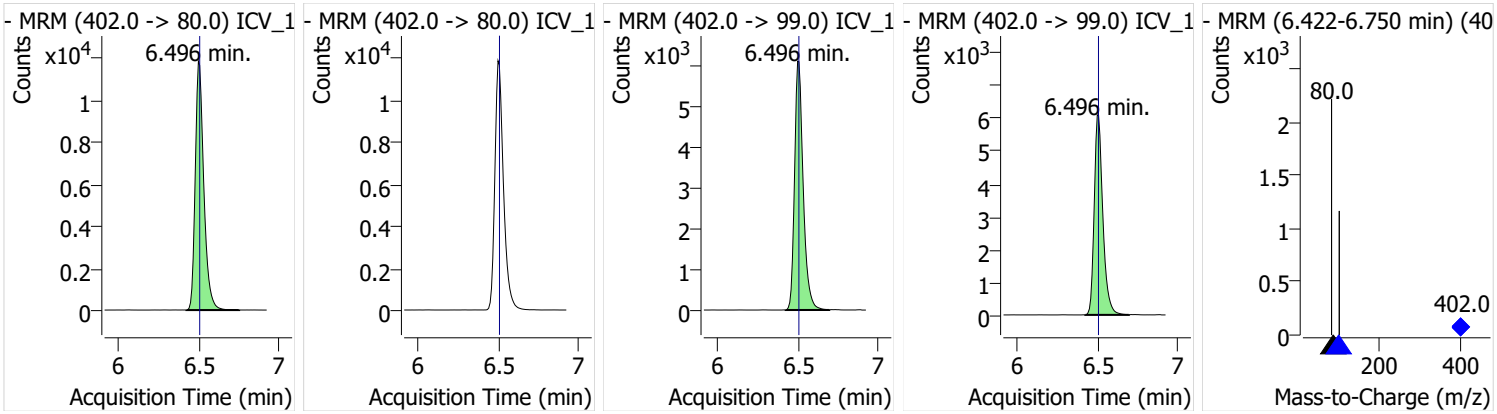

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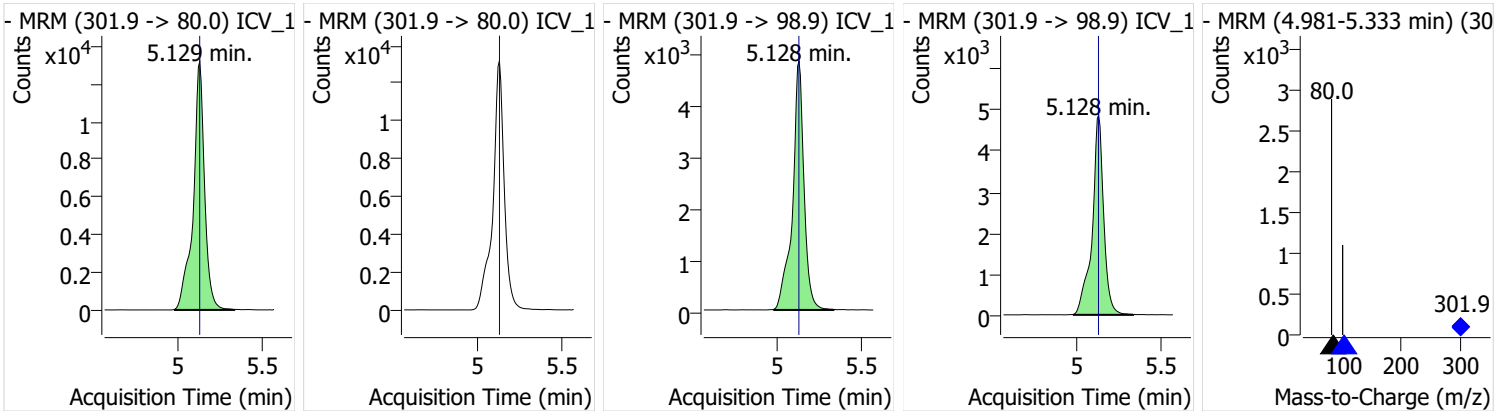

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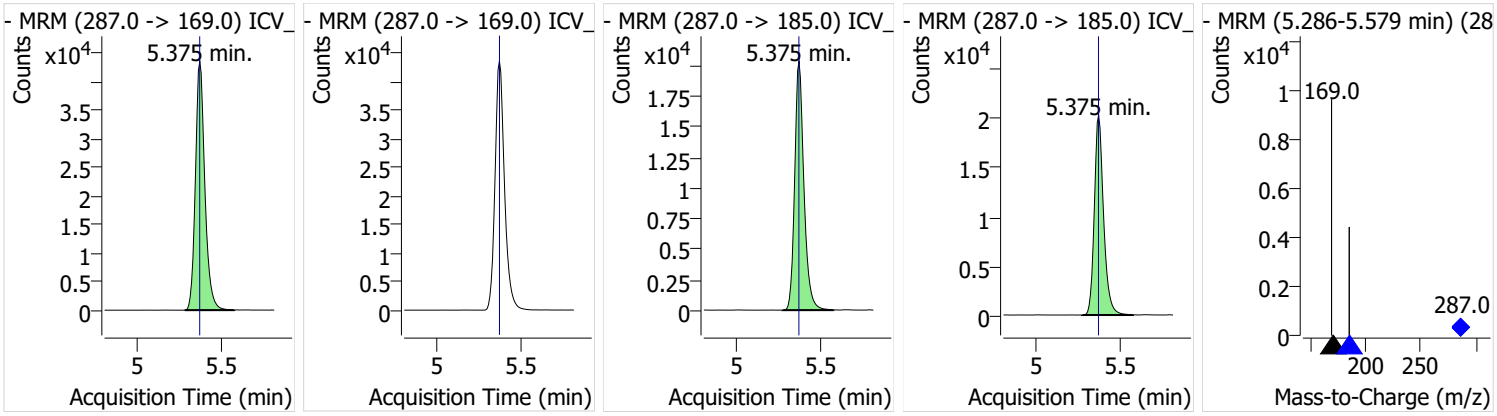

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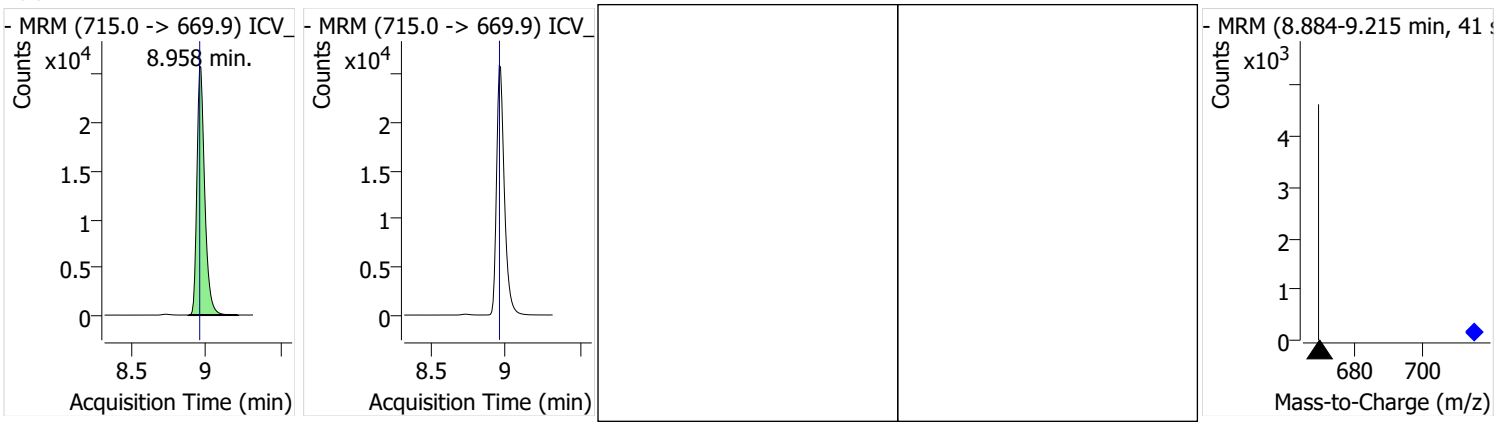

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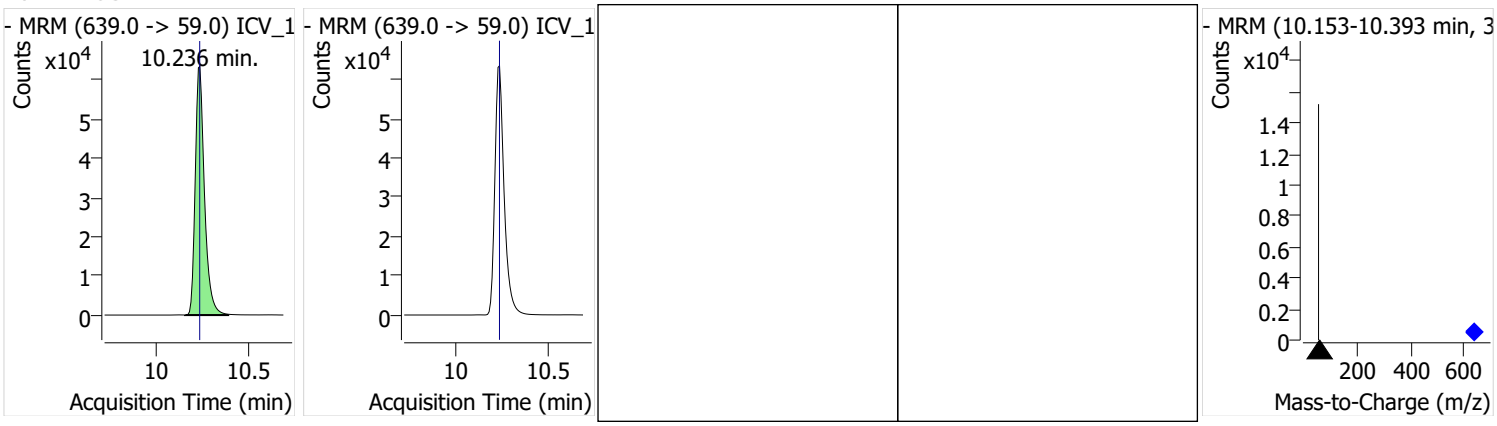
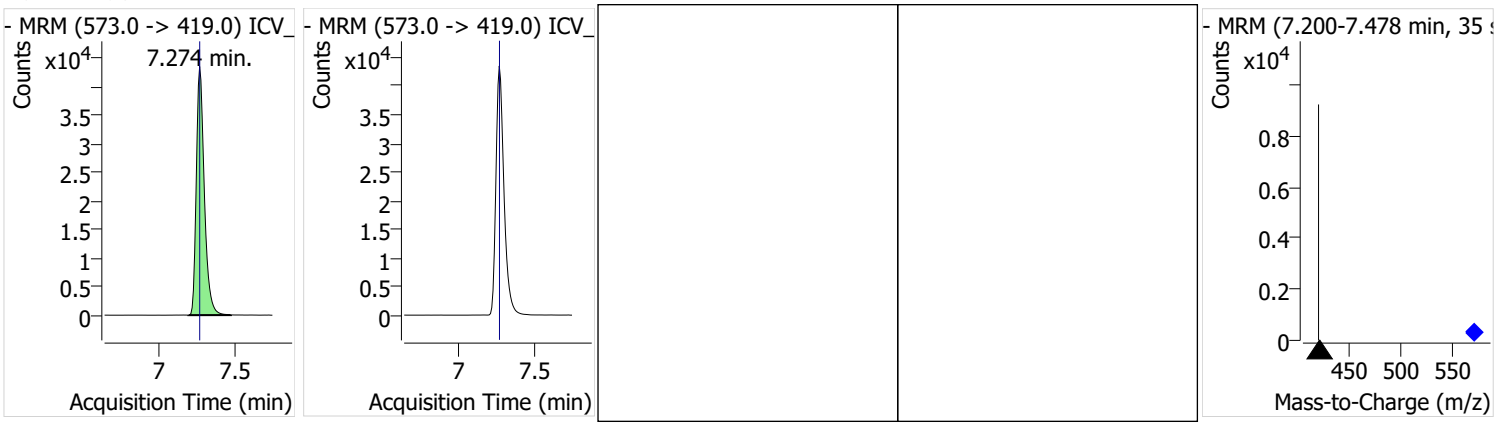


D3-NMeFOSA

D3-NMeFOSAA



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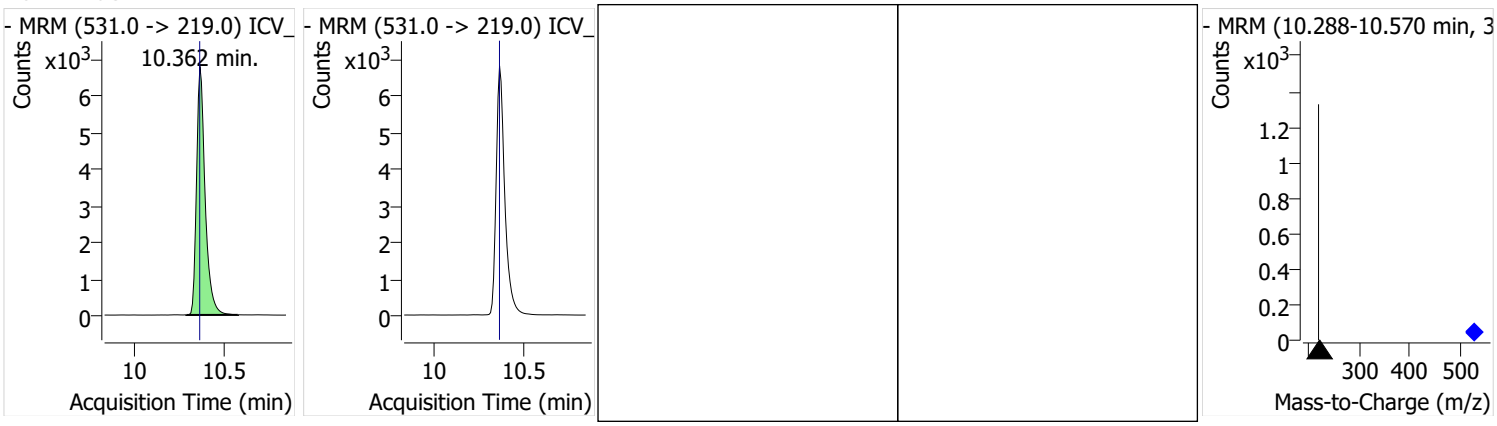
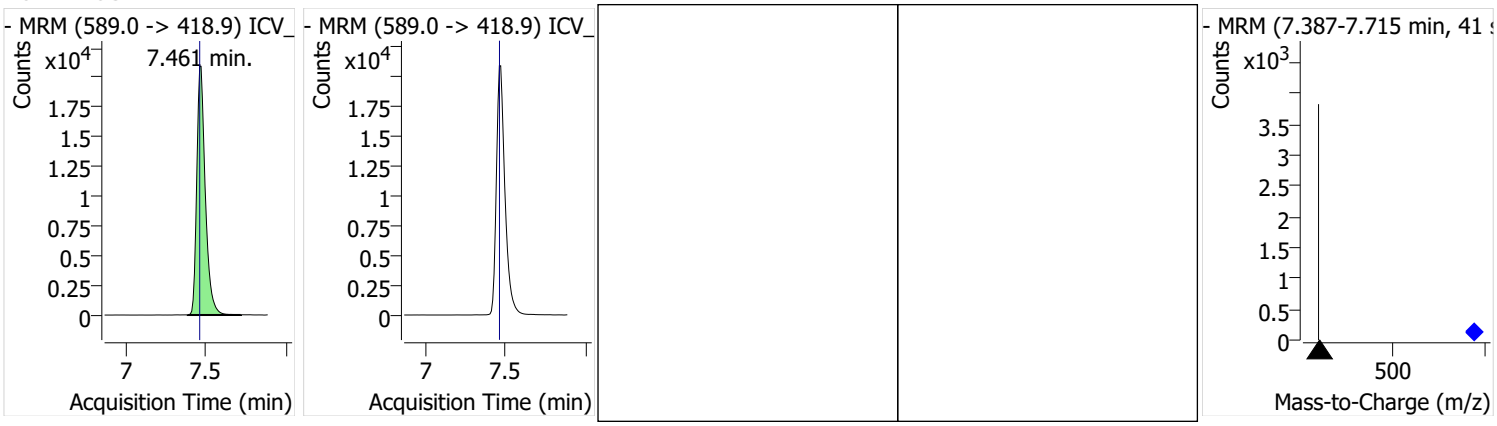
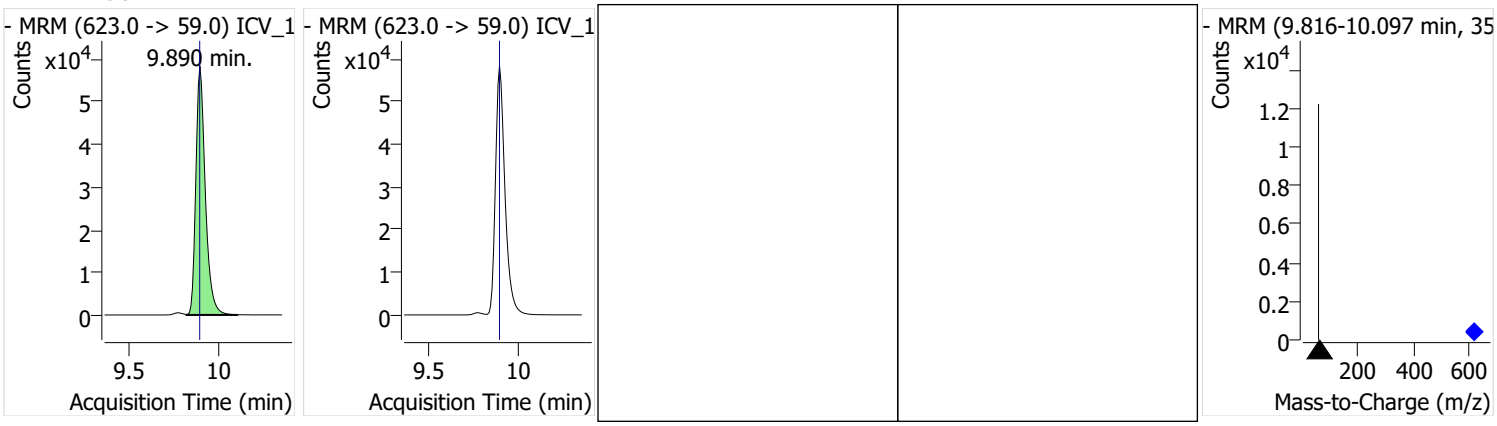


D5-NEtFOSAA



D7-NMeFOSE



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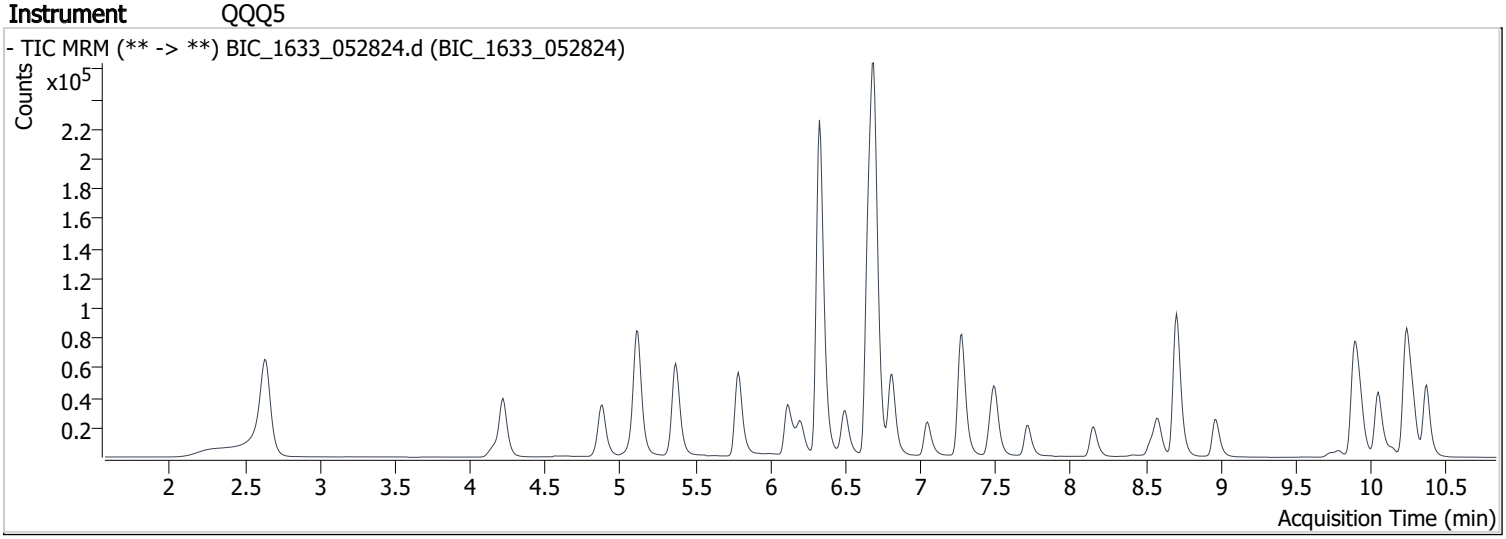
Analysis Time	5/29/2024 8:19 AM	**Last Calib Update**	5/29/2024 8:19 AM
Acq. Time	5/28/2024 1:08 PM	**Data File**	BIC_1633_052824.d
Sample Type	Sample	**Sample Name**	BIC_1633_052824
Dilution	1	**Acq. Method**	1633_ACQUISITION.m
Sample Comment	E#24E0566	**Processing method**	1633_050624.m
Instrument	QQQ5		



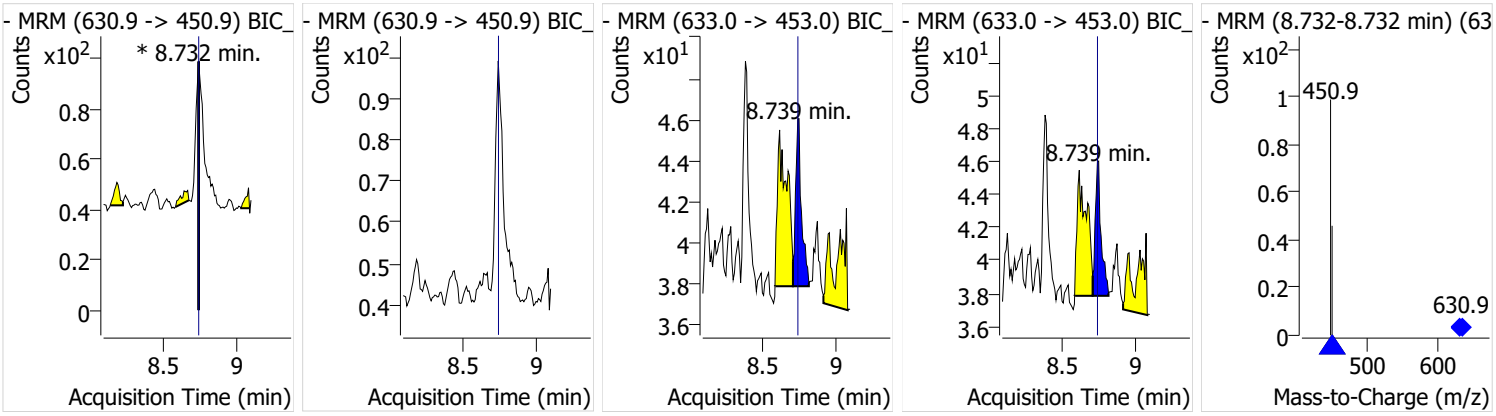
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
11Cl-PF3OUdS	8.732	0			13C3-HFPODA - ISTD	5.375	163265	-	ng/ml	✔	1	AMS 05/29/24
633.0 -> 453.0				*								
3:3FTCA	3.774	0			13C5-PFPeA - ISTD	4.220	180027	-	ng/ml	✔	1	AMS 05/29/24
241.0 -> 117.0				*								
4:2FTS	4.871	0			13C2-4:2FTS - ISTD	4.879	36032	-	ng/ml	✔	1	AMS 05/29/24
327.0 -> 80.9				*								
5:3FTCA	5.509	0			13C5-PFHxA - ISTD	5.109	140320	-	ng/ml	✔	1	AMS 05/29/24
341.0 -> 217.0				*								
6:2FTS	6.106	0			13C2-6:2FTS - ISTD	6.114	27894	-	ng/ml	✔	1	AMS 05/29/24
427.0 -> 80.9				*								
7:3FTCA	6.674	1022	105.90		13C5-PFHxA - ISTD	5.109	140320	0.1133	ng/ml			
441.0 -> 317.0			163.42	121.0								
8:2FTS	7.031	0			13C2-8:2FTS - ISTD	7.047	26182	-	ng/ml	✔	1	AMS 05/29/24
527.0 -> 81.0				*								
9Cl-PF3ONS	7.851	0			13C3-HFPODA - ISTD	5.375	163265	-	ng/ml	✔	1	AMS 05/29/24
533.0 -> 353.0				*								
ADONA	6.004	0			13C3-HFPODA - ISTD	5.375	163265	-	ng/ml	✔	1	AMS 05/29/24
377.0 -> 85.1				*								
HFPO-DA	5.368	0			13C3-HFPODA - ISTD	5.375	163265	-	ng/ml	✔	1	AMS 05/29/24

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
285.0 -> 184.9				*								
NEtFOSA	10.373	135130	2468.84		D5-NEtFOSA - ISTD	10.362	22346	11.4241	ng/ml	✔	3	AMS 05/29/24
526.0 -> 219.0			3195.90	77.7								
NEtFOSAA	7.470	0			D5-NEtFOSAA - ISTD	7.469	78360	-	ng/ml	✔	1	AMS 05/29/24
584.0 -> 526.0				*								
NEtFOSE	10.253	84042	2842.79		D9-NEtFOSE - ISTD	10.227	231434	7.9075	ng/ml	✔	3	AMS 05/29/24
NFDHA	5.032	0			13C5-PFHxA - ISTD	5.109	140320	-	ng/ml	✔	1	AMS 05/29/24
295.0 -> 85.0				*								
NMeFOSA	10.053	126992	4151.51		D3-NMeFOSA - ISTD	10.051	21859	12.3779	ng/ml	✔	3	AMS 05/29/24
512.0 -> 219.0			6119.09	73.2								
NMeFOSAA	7.283	0			D3-NMeFOSAA - ISTD	7.274	158923	-	ng/ml	✔	1	AMS 05/29/24
570.0 -> 418.9				*								
NMeFOSE	9.915	74093	4335.86		D7-NMeFOSE - ISTD	9.890	217873	7.5916	ng/ml	✔	3	AMS 05/29/24
PFBA	2.628	0			13C4-PFBA - ISTD	2.631	255722	-	ng/ml	✔	1	AMS 05/29/24
PFBS	4.900	0			13C3-PFBS - ISTD	5.129	61179	-	ng/ml	✔	1	AMS 05/29/24
298.9 -> 98.8				*								
PFDA	7.204	0			13C6-PFDA - ISTD	7.269	76828	-	ng/ml	✔	1	AMS 05/29/24
513.0 -> 219.0				*								
PFDoA	8.162	0			13C2-PFDoA - ISTD	8.153	71304	-	ng/ml	✔	1	AMS 05/29/24
613.0 -> 319.0				*								
PFDoS	9.197	0			13C8-PFOS - ISTD	7.500	39337	-	ng/ml	✔	1	AMS 05/29/24
698.9 -> 99.0				*								
PFDS	8.428	0			13C8-PFOS - ISTD	7.500	39337	-	ng/ml	✔	1	AMS 05/29/24
599.0 -> 98.8				*								
PFEESA	5.511	0			13C5-PFHxA - ISTD	5.109	140320	-	ng/ml	✔	1	AMS 05/29/24
315.0 -> 83.0				*								
PFHpA	5.789	4904	108.07		13C4-PFHpA - ISTD	5.789	190677	0.0621	ng/ml			
362.9 -> 169.0			201.95	15.8								
PFHpS	7.011	0			13C8-PFOS - ISTD	7.500	39337	-	ng/ml	✔	1	AMS 05/29/24
449.0 -> 98.8				*								
PFHxA	5.111	1196	45.07		13C5-PFHxA - ISTD	5.109	140320	0.0218	ng/ml			

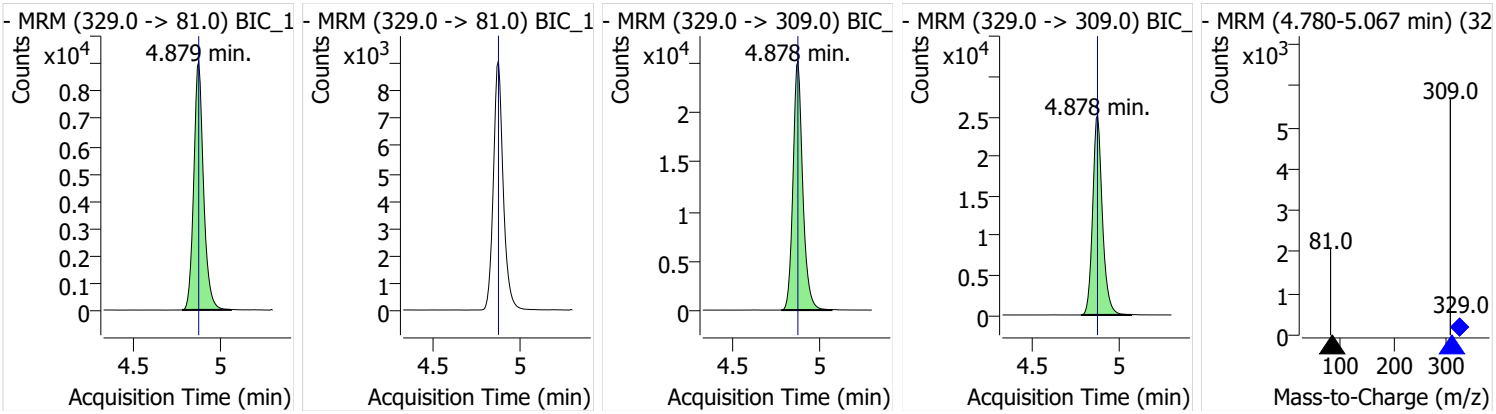
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
313.0 -> 118.9			4.25	2.5								
PFHxS	6.505	0			13C3-PFHxS - ISTD	6.496	44478	-	ng/ml	✔	1	AMS 05/29/24
398.9 -> 99.0				*								
PFMBA	4.497	0			13C5-PFPeA - ISTD	4.220	180027	-	ng/ml	✔	1	AMS 05/29/24
PFMPA	3.382	0			13C5-PFPeA - ISTD	4.220	180027	-	ng/ml	✔	1	AMS 05/29/24
PFNA	6.681	1120418	24625.05		13C9-PFNA - ISTD	6.812	84177	16.8954	ng/ml			
463.0 -> 219.0			7388.44	13.3								
PFNS	7.984	0			13C8-PFOS - ISTD	7.500	39337	-	ng/ml	✔	1	AMS 05/29/24
549.0 -> 98.8				*								
PFOA	6.329	543439	2565.42		13C8-PFOA - ISTD	6.328	171626	6.8957	ng/ml	✔	3	AMS 05/29/24
413.0 -> 169.0			1229.59	24.7								
PFOS	7.501	475	49.63		13C8-PFOS - ISTD	7.500	39337	0.0249	ng/ml	✔	3	AMS 05/29/24
499.0 -> 99.0			25.57	36.5								
PFOSA	8.710	394919	2667.77		13C8-PFOSA - ISTD	8.709	71412	12.8376	ng/ml	✔	3	AMS 05/29/24
497.9 -> 478.0			2011.72	2.6								
PFPeA	4.214	0			13C5-PFPeA - ISTD	4.220	180027	-	ng/ml	✔	1	AMS 05/29/24
263.0 -> 69.0				*								
PFPeS	5.790	0			13C3-PFHxS - ISTD	6.496	44478	-	ng/ml	✔	1	AMS 05/29/24
349.0 -> 98.9				*								
PFTeDA	8.959	0			13C2-PFTeDA - ISTD	8.958	89794	-	ng/ml	✔	1	AMS 05/29/24
713.0 -> 168.9				*								
PFTrDA	8.573	0			13C2-PFDoA - ISTD	8.153	71304	-	ng/ml	✔	1	AMS 05/29/24
663.0 -> 168.9				*								
PFUnA	7.710	0			13C7-PFUnA - ISTD	7.717	72419	-	ng/ml	✔	1	AMS 05/29/24
563.0 -> 269.1				*								
TDCA								-	ng/ml			
499.0 -> 99.0				*								
13C2-8:2FTS	7.046	54208	149119.03		18O2-PFHxS	6.504	38604	5.1419	ng/ml			
529.0 -> 81.0			7143.37	48.3								
13C2-4:2FTS	4.878	100127	28439.52		18O2-PFHxS	6.504	38604	5.0948	ng/ml			
329.0 -> 81.0			11208.05	36.0								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
13C2-6:2FTS	6.113	88566	42602.48		18O2-PFHxS	6.504	38604	5.0701	ng/ml			
429.0 -> 81.0			7013.98	31.5								
13C5-PFHxA	5.109	140320	13424.83		13C2-PFHxA	5.110	119952	2.7609	ng/ml			
318.0 -> 120.0			210.50	1.7								
13C6-PFDA	7.269	76828	5670.18		13C2-PFDA	7.270	67461	1.4302	ng/ml			
13C7-PFUnA	7.717	72419	9354.10		13C2-PFDA	7.270	67461	1.4420	ng/ml			
13C8-PFOA	6.328	171626	33549.13		13C4-PFOA	6.329	18115	2.8955	ng/ml			
13C8-PFOS	7.500	39337	12600.22		13C4-PFOS	7.501	38494	2.7551	ng/ml			
507.0 -> 99.0			4570.22	54.0								
13C8-PFOSA	8.709	71412	719527.54		13C4-PFOS	7.501	38494	2.7680	ng/ml			
13C9-PFNA	6.812	84177	12478.53		13C5-PFNA	6.812	99278	1.3780	ng/ml			
13C5-PFPeA	4.220	180027	18793.29		13C2-PFHxA	5.110	119952	4.7769	ng/ml			
13C2-PFDoA	8.153	71304	13930.89		13C2-PFDA	7.270	67461	1.3756	ng/ml			
13C4-PFHpA	5.789	190677	15369.33		13C2-PFHxA	5.110	119952	2.8759	ng/ml			
13C4-PFBA	2.631	261166	60247.45		13C3-PFBA	2.634	104134	11.4805	ng/ml	✔	3	AMS 05/29/24
13C3-PFHxS	6.496	44478	11217.38		18O2-PFHxS	6.504	38604	2.8075	ng/ml			
402.0 -> 99.0			12654.23	52.5								
13C3-PFBS	5.129	61179	9483.57		18O2-PFHxS	6.504	38604	2.6686	ng/ml			
301.9 -> 98.9			7385.52	37.4								
13C3-HFPODA	5.375	163265	23991.96		13C2-PFHxA	5.110	119952	11.2010	ng/ml			
287.0 -> 185.0			12617.78	44.9								
13C2-PFTeDA	8.958	89794	26284.28		13C2-PFDA	7.270	67461	1.2847	ng/ml			
D9-NEtFOSE	10.227	231434	73557.00		13C4-PFOS	7.501	38494	27.7296	ng/ml			
D3-NMeFOSA	10.051	21859	7491.24		13C4-PFOS	7.501	38494	2.5936	ng/ml			
D3-NMeFOSAA	7.274	158923	27167.92		13C4-PFOS	7.501	38494	5.5552	ng/ml			
D5-NEtFOSA	10.362	22346	9569.05		13C4-PFOS	7.501	38494	2.6044	ng/ml			
D5-NEtFOSAA	7.469	78360	19285.93		13C4-PFOS	7.501	38494	5.4712	ng/ml			
D7-NMeFOSE	9.890	217873	157927.01		13C4-PFOS	7.501	38494	27.9341	ng/ml			

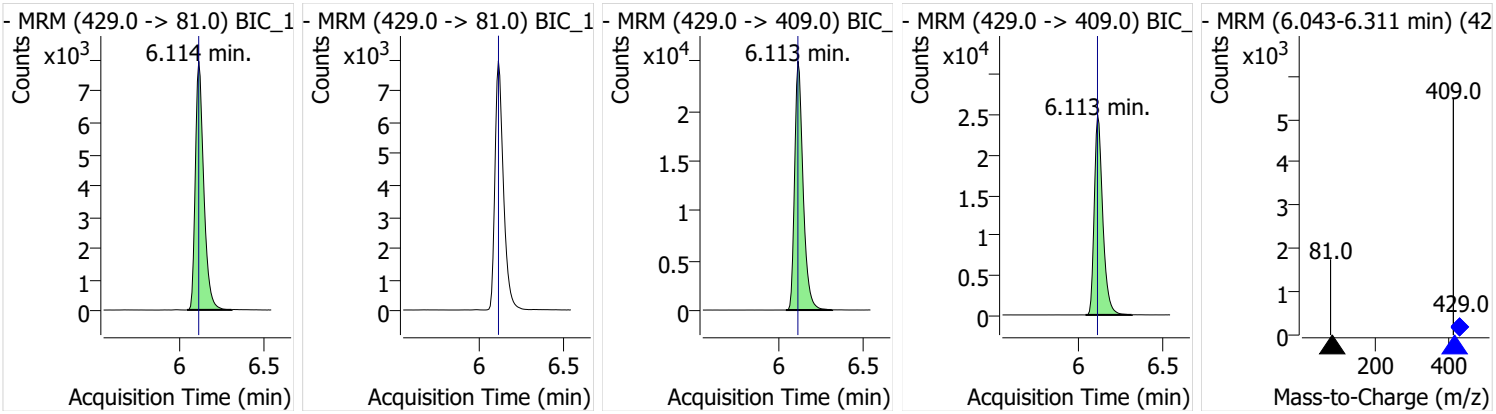
11Cl-PF3OUdS



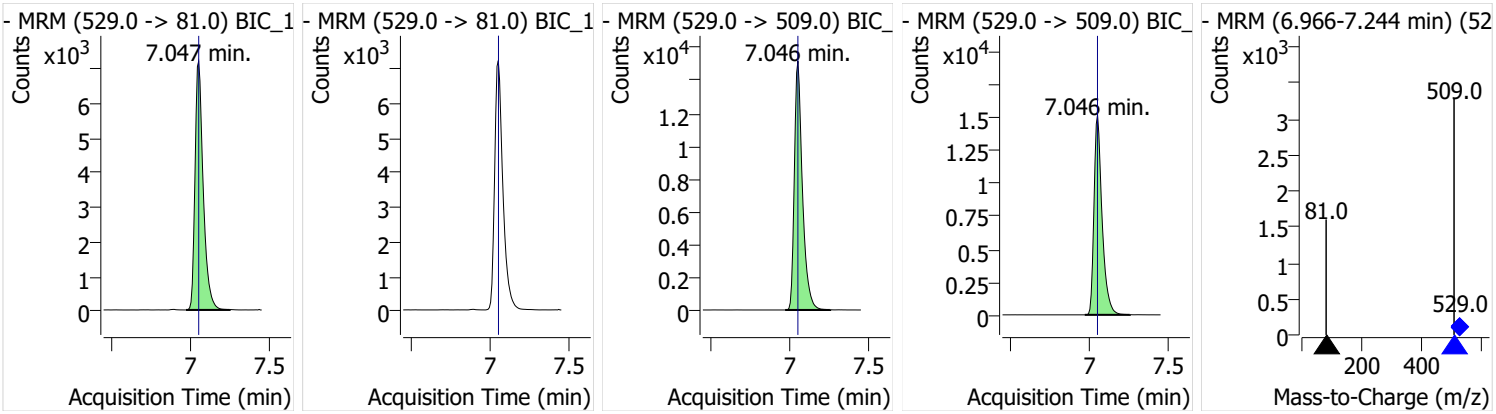
13C2-4:2FTS - ISTD



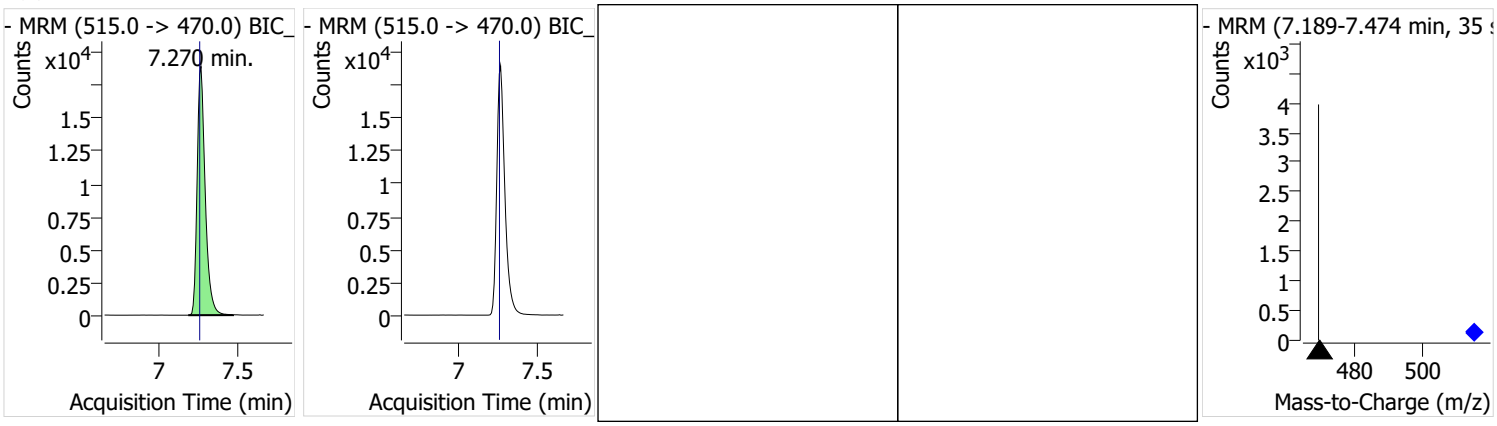
13C2-6:2FTS - ISTD



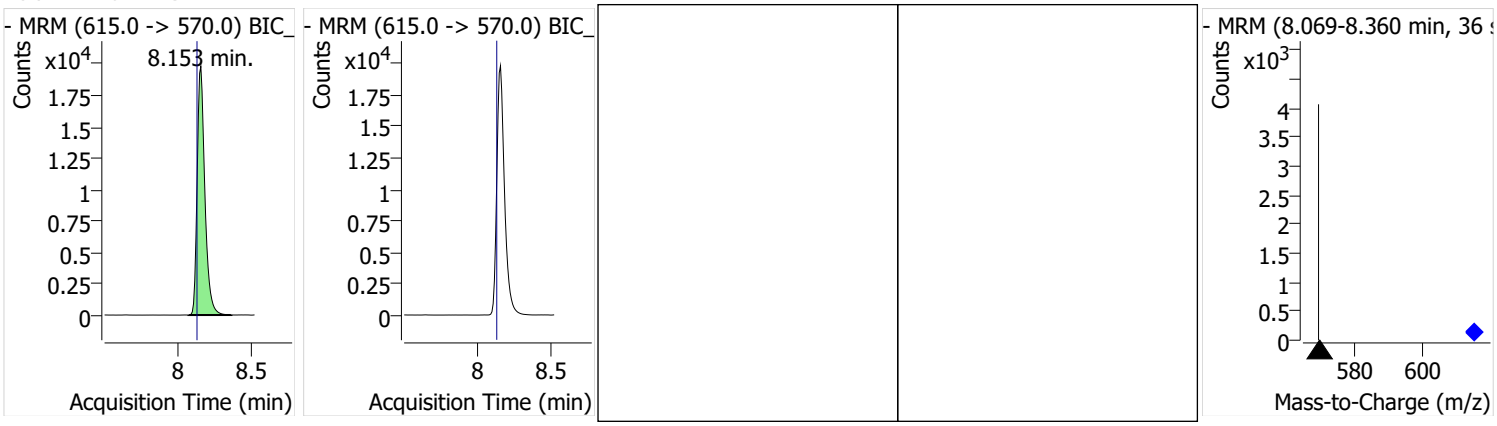
13C2-8:2FTS - ISTD



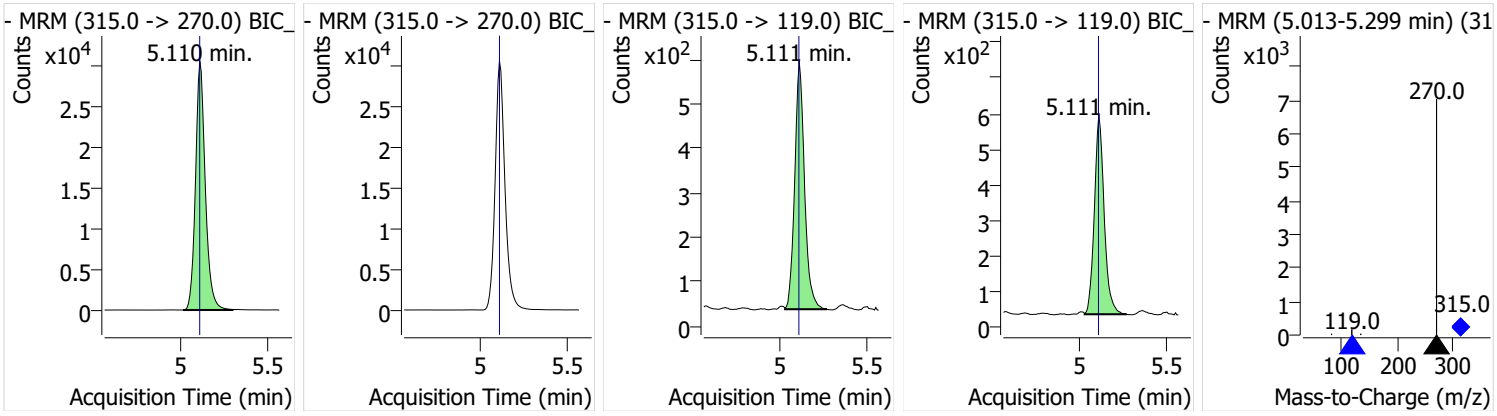
13C2-PFDA



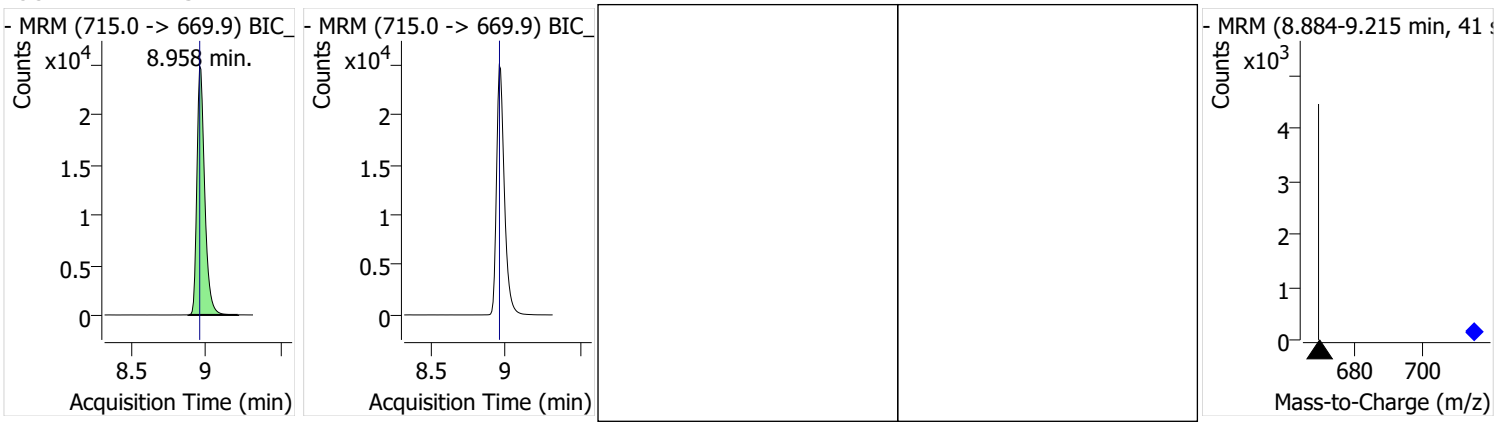
13C2-PFDoA - ISTD



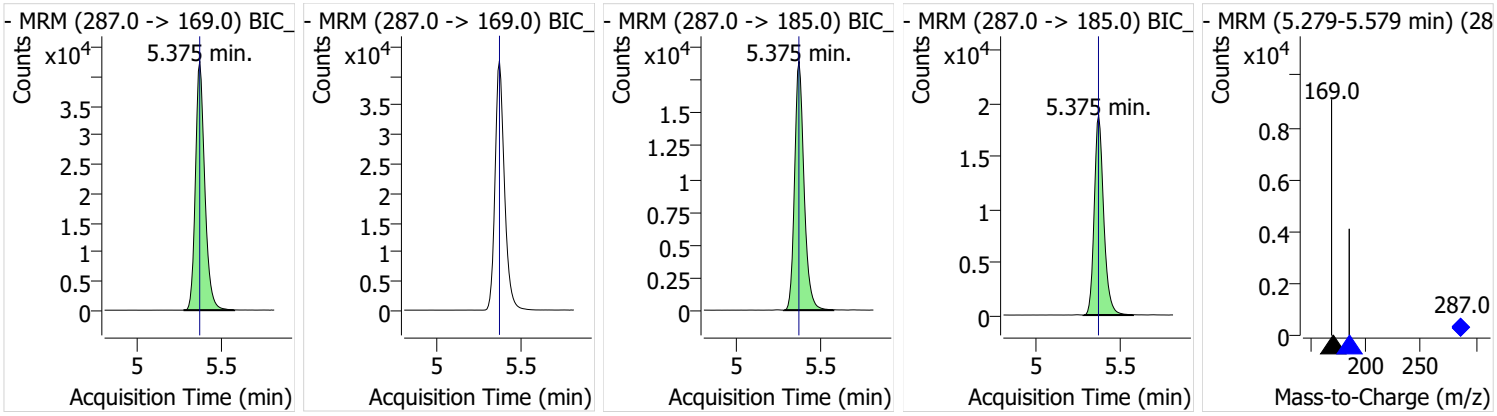
13C2-PFHxA



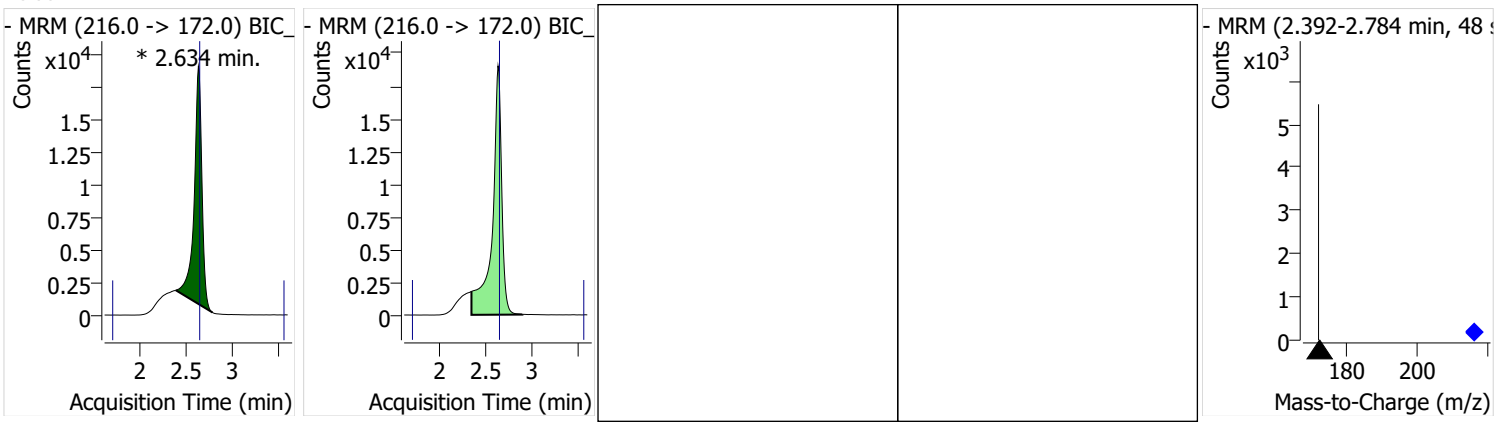
13C2-PFTeDA - ISTD



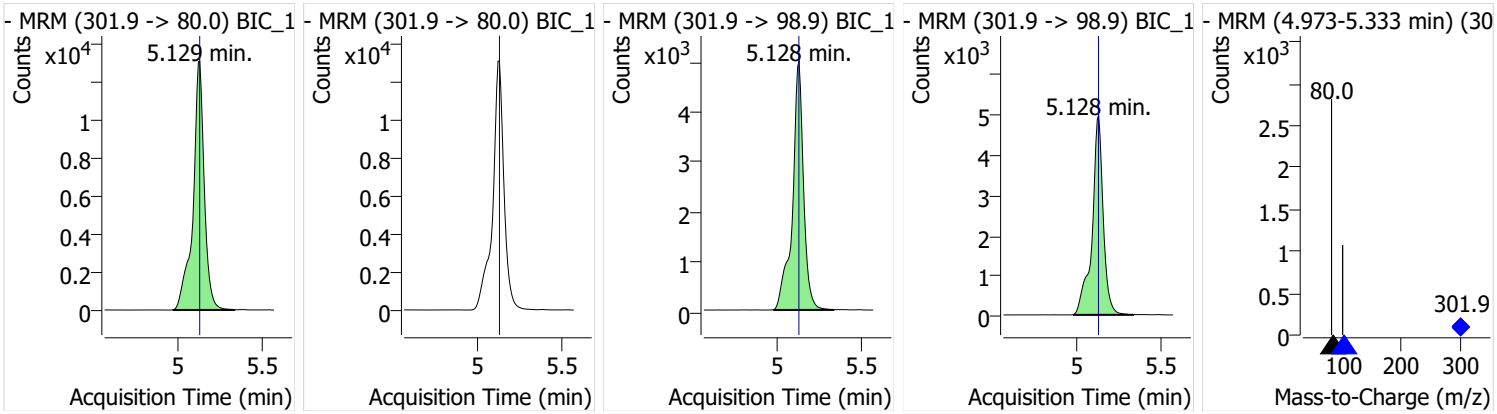
13C3-HFPODA - ISTD



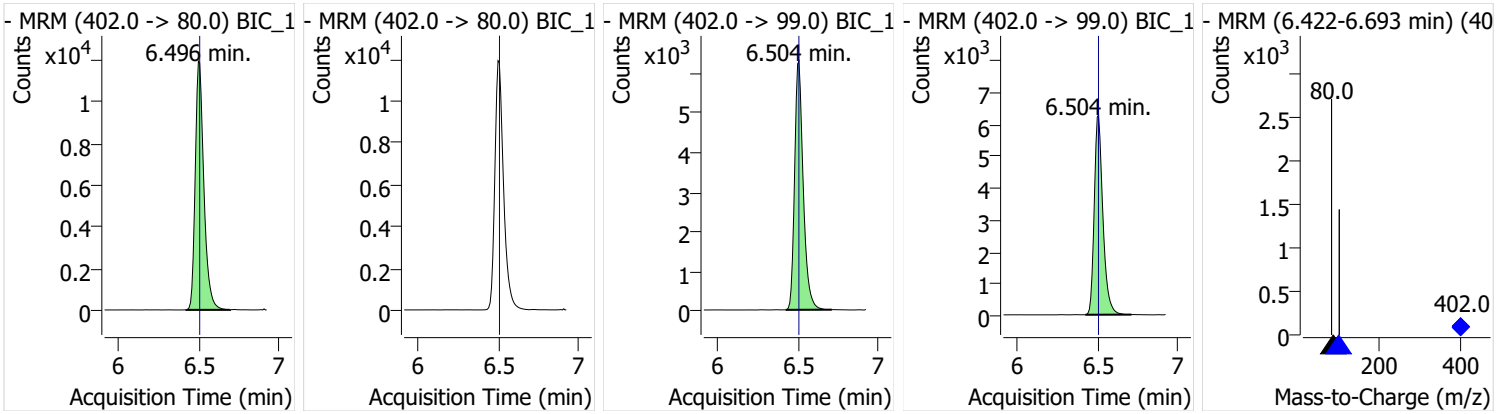
13C3-PFBA



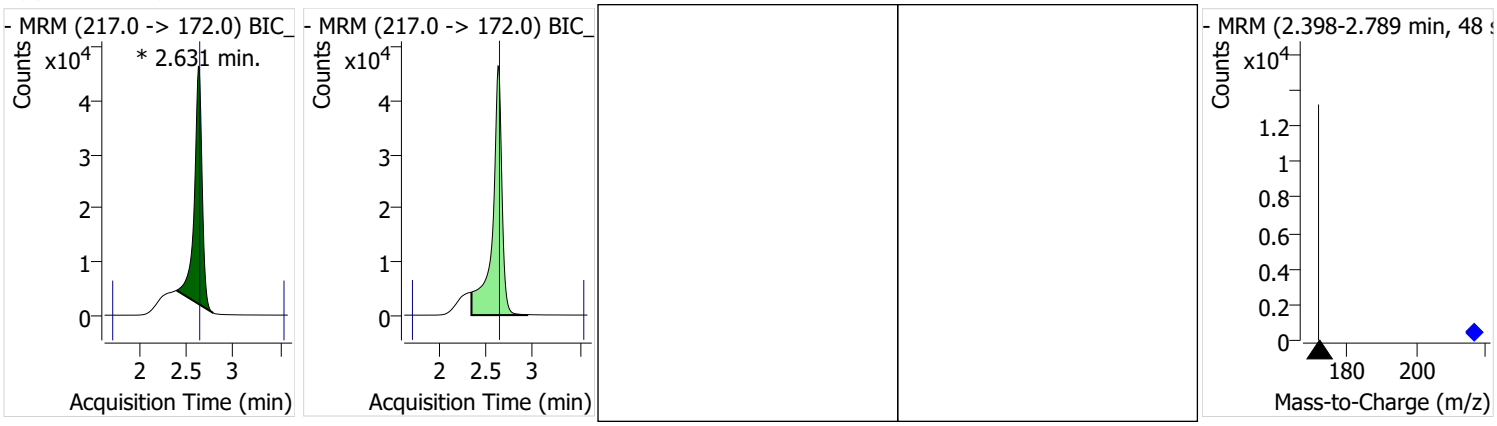
13C3-PFBS - ISTD



13C3-PFHxS - ISTD

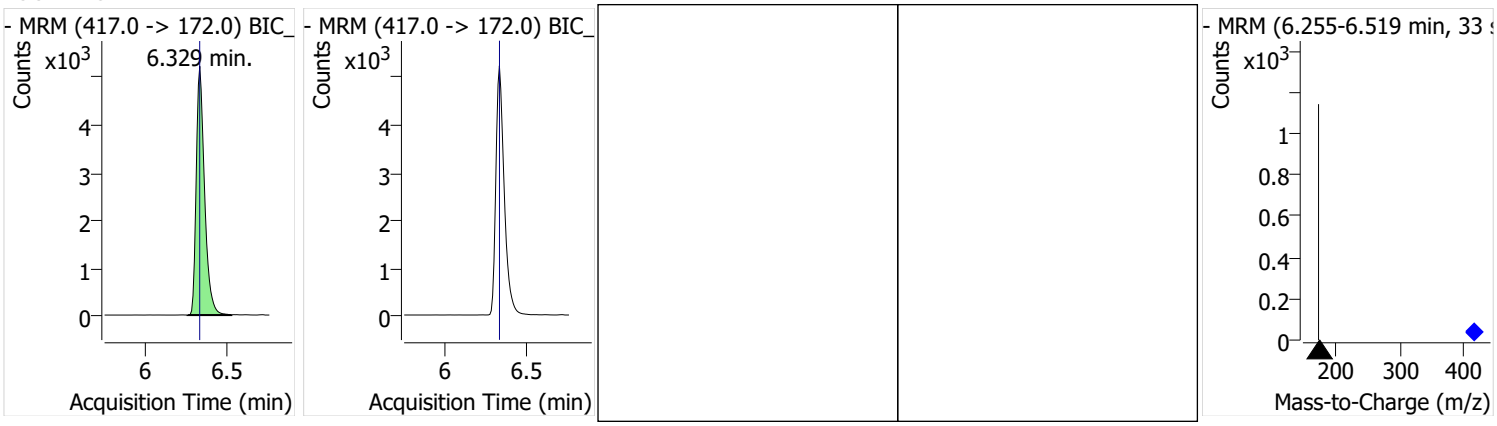


13C4-PFBA - ISTD

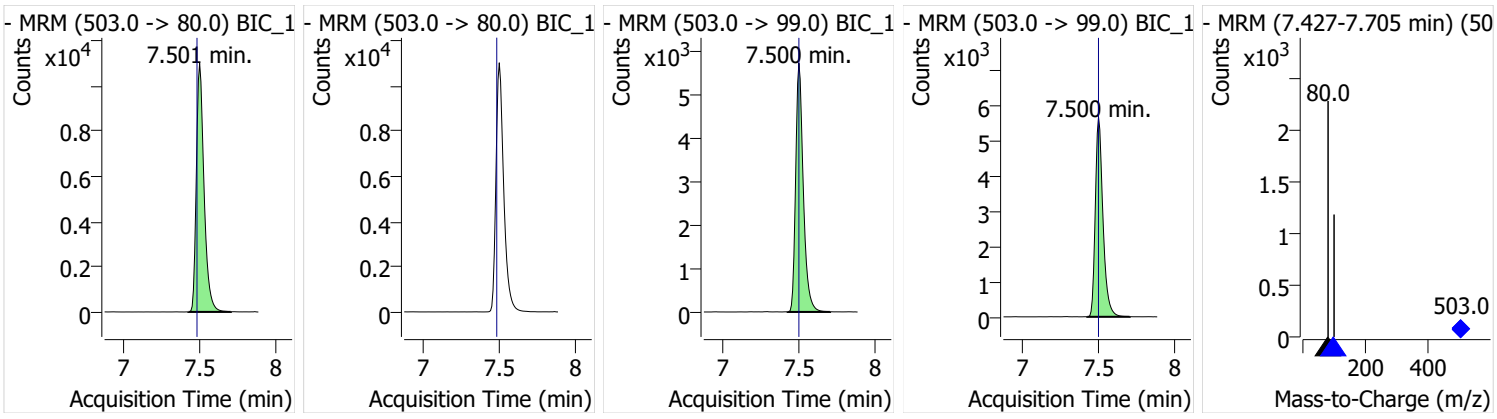


13C4-PFHpA - ISTD

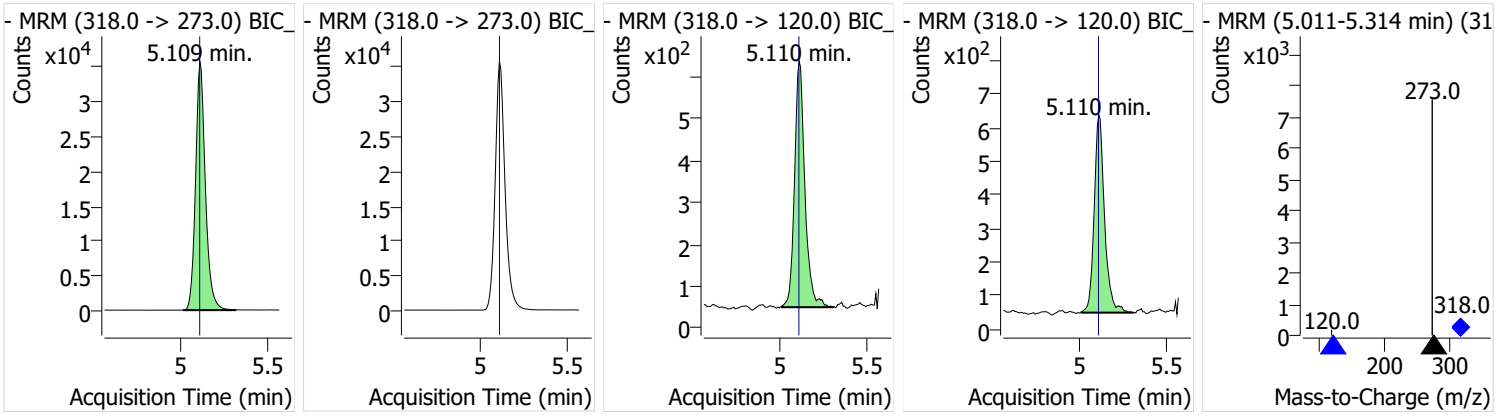
13C4-PFOA



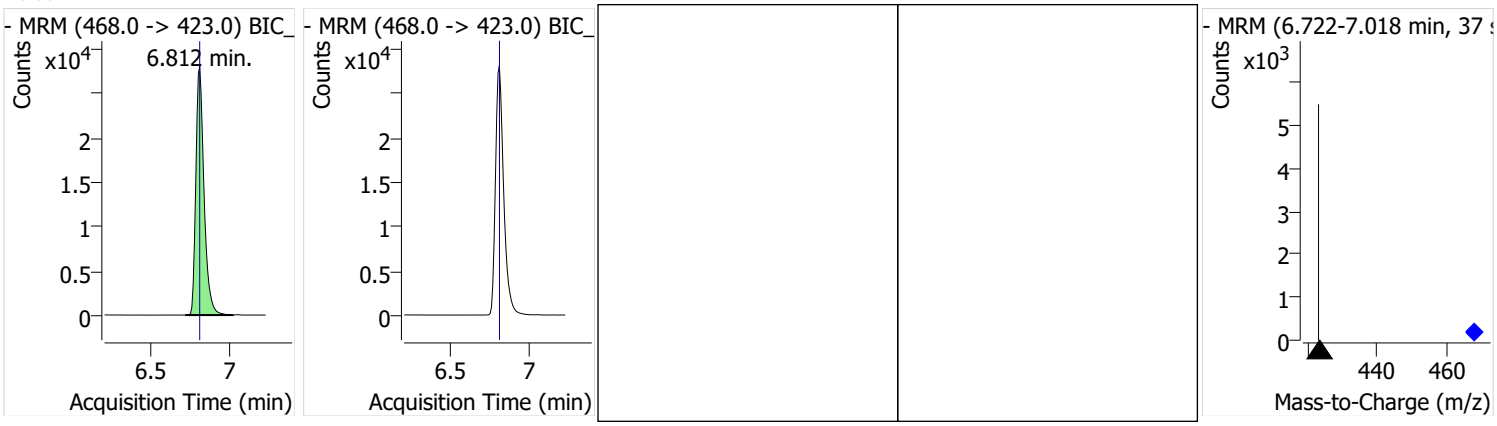
13C4-PFOS



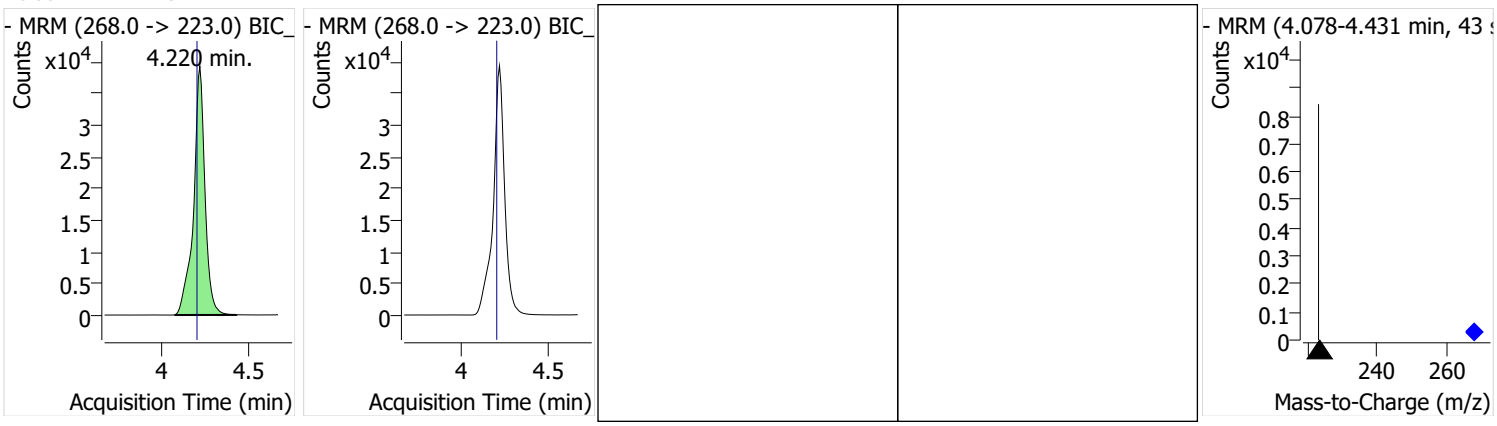
13C5-PFHxA - ISTD



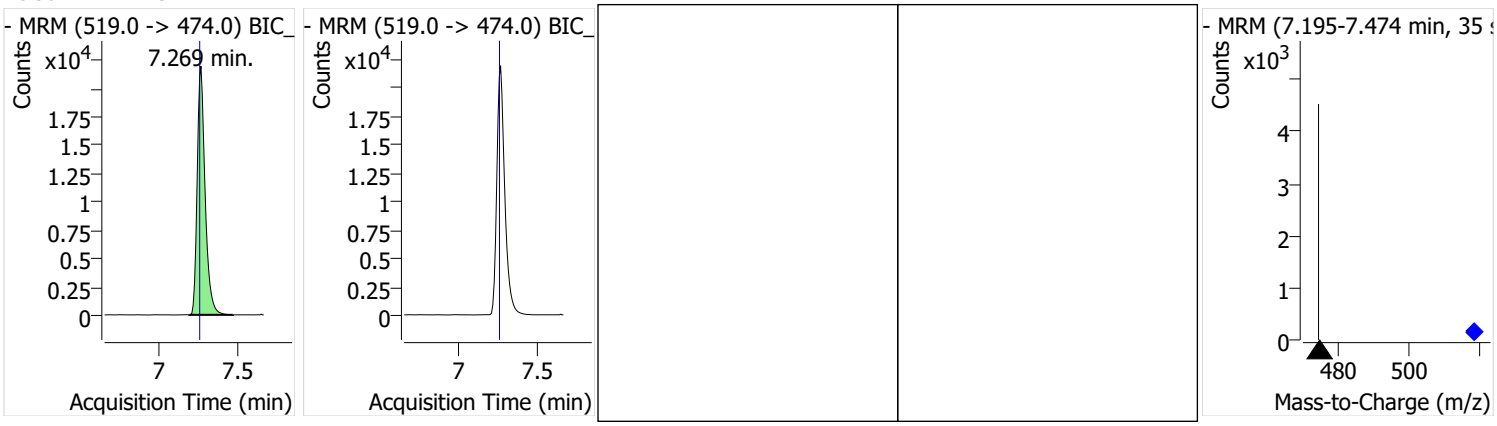
13C5-PFNA



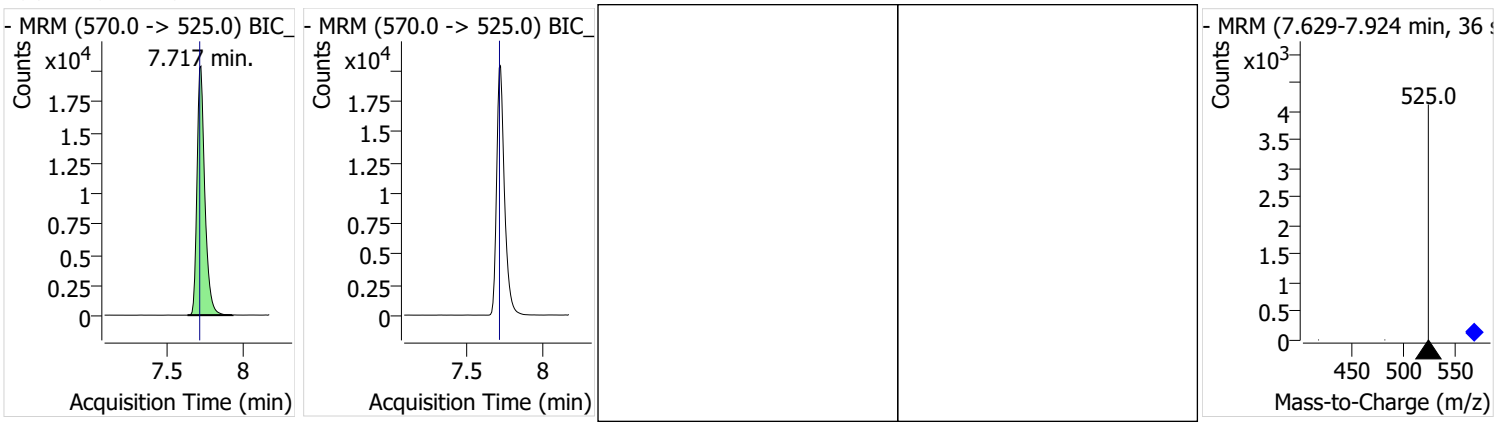
13C5-PFPeA - ISTD



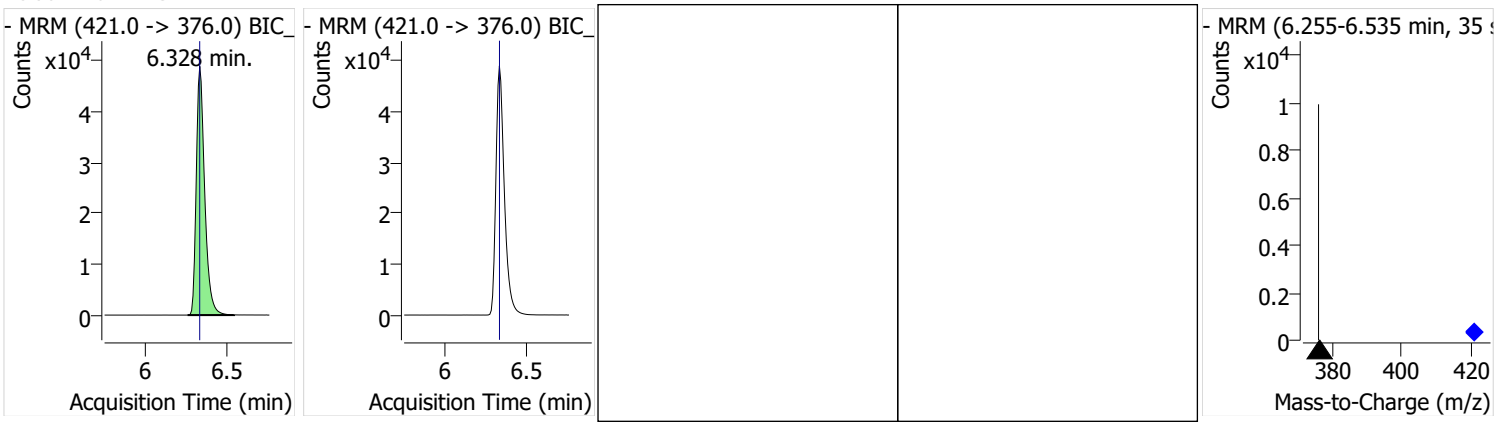
13C6-PFDA - ISTD



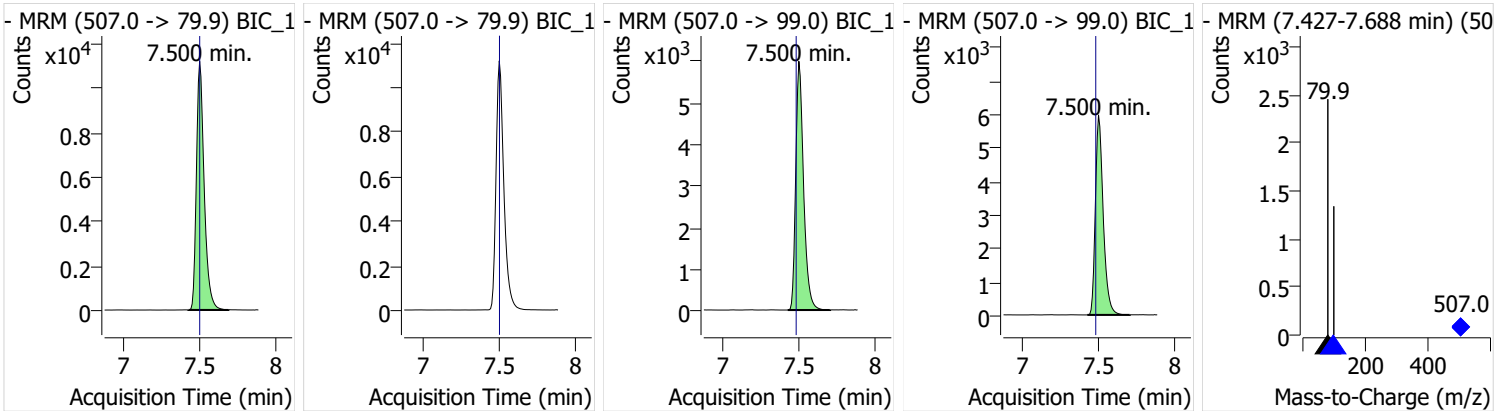
13C7-PFUnA - ISTD



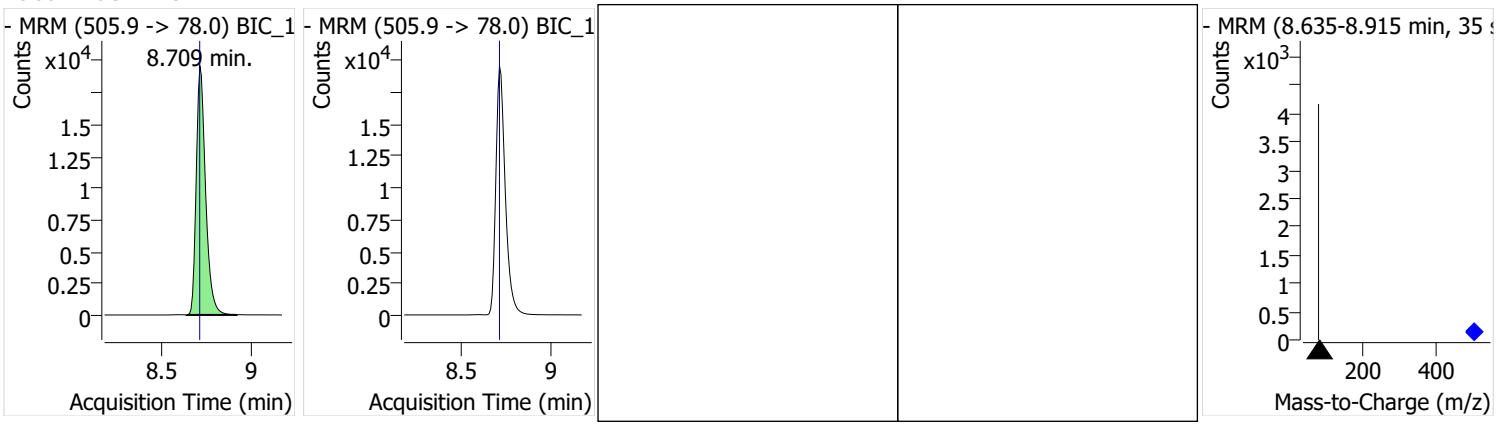
13C8-PFOA - ISTD



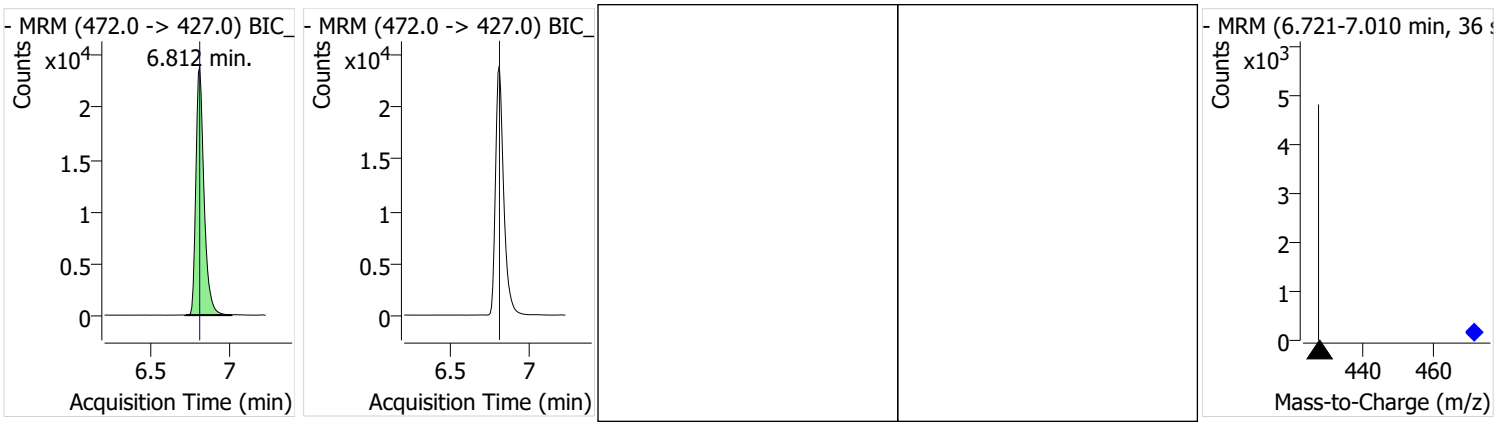
13C8-PFOS - ISTD



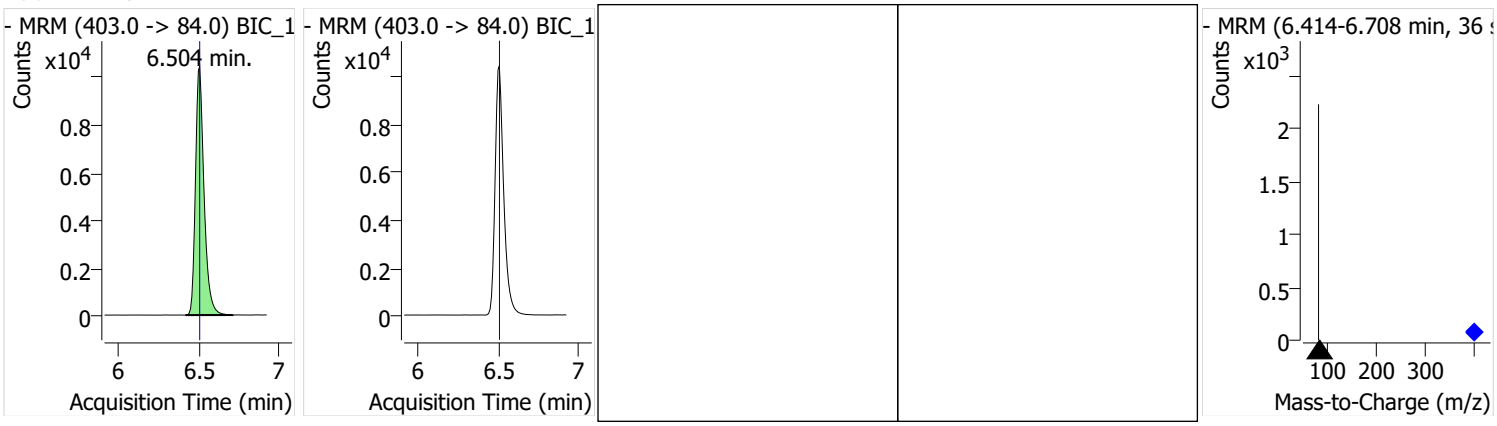
13C8-PFOSA - ISTD



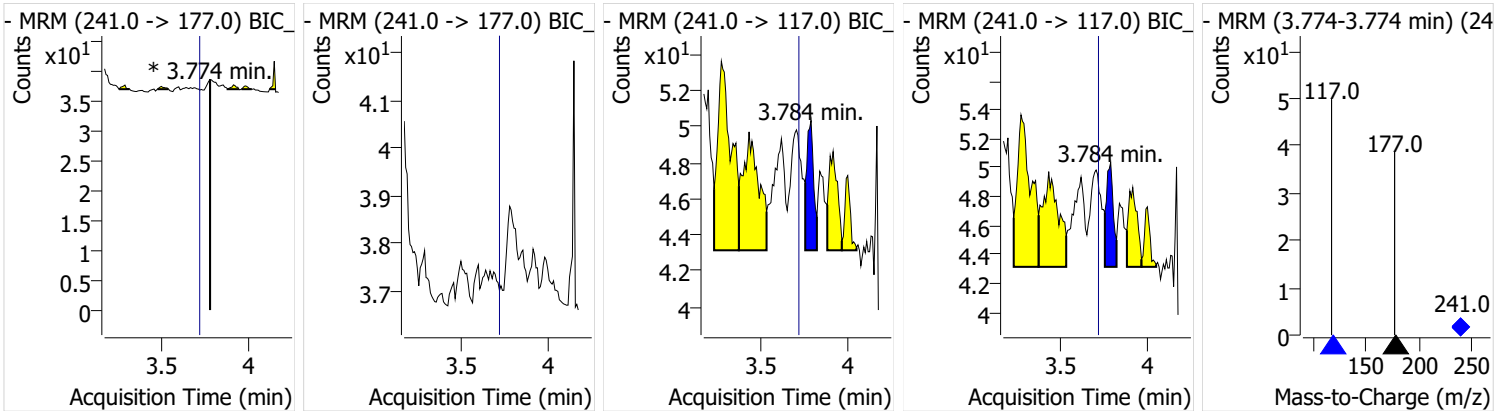
13C9-PFNA - ISTD



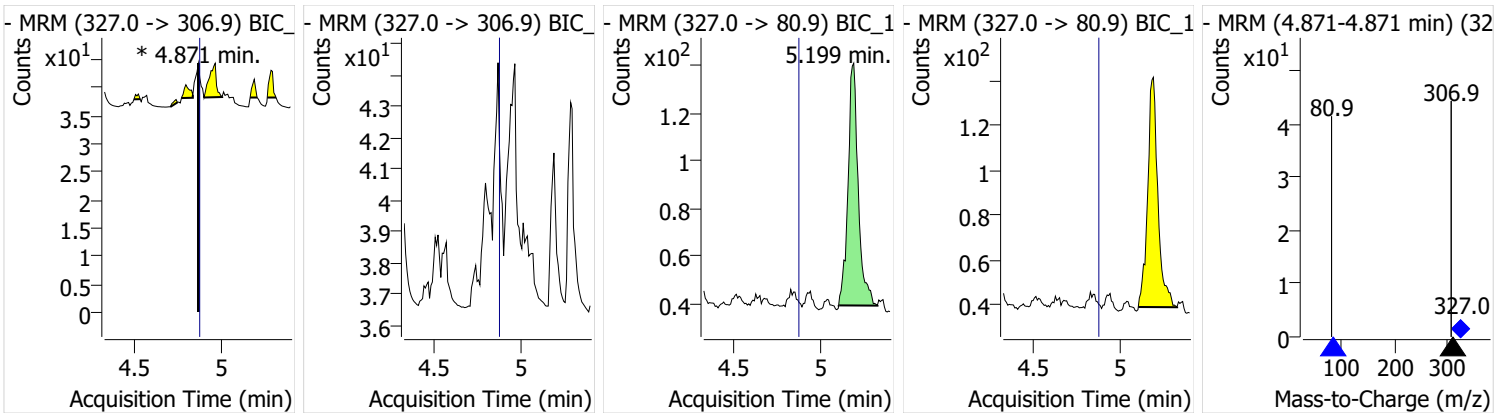
18O2-PFHxS



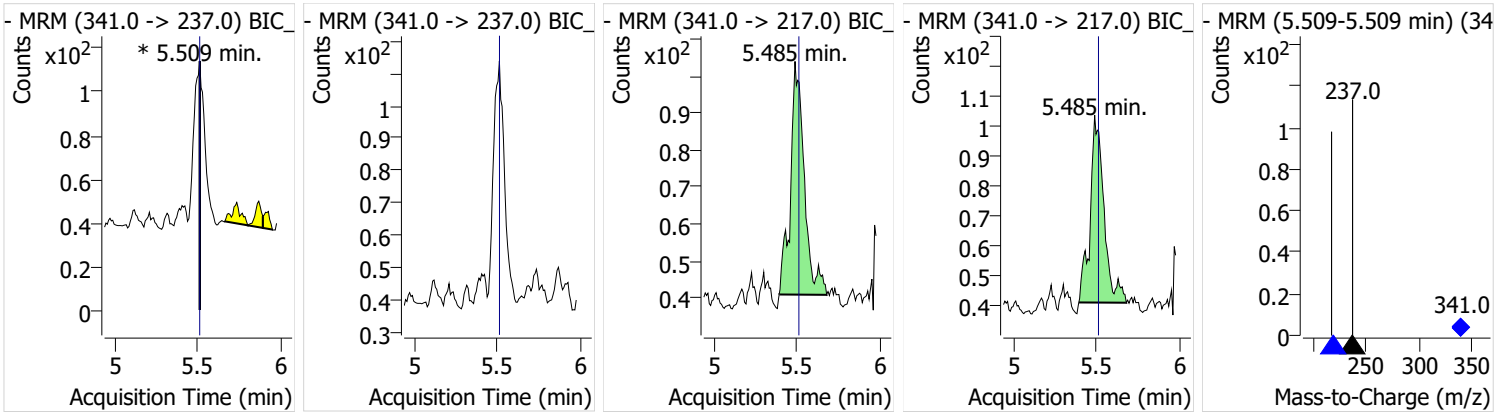
3:3FTCA



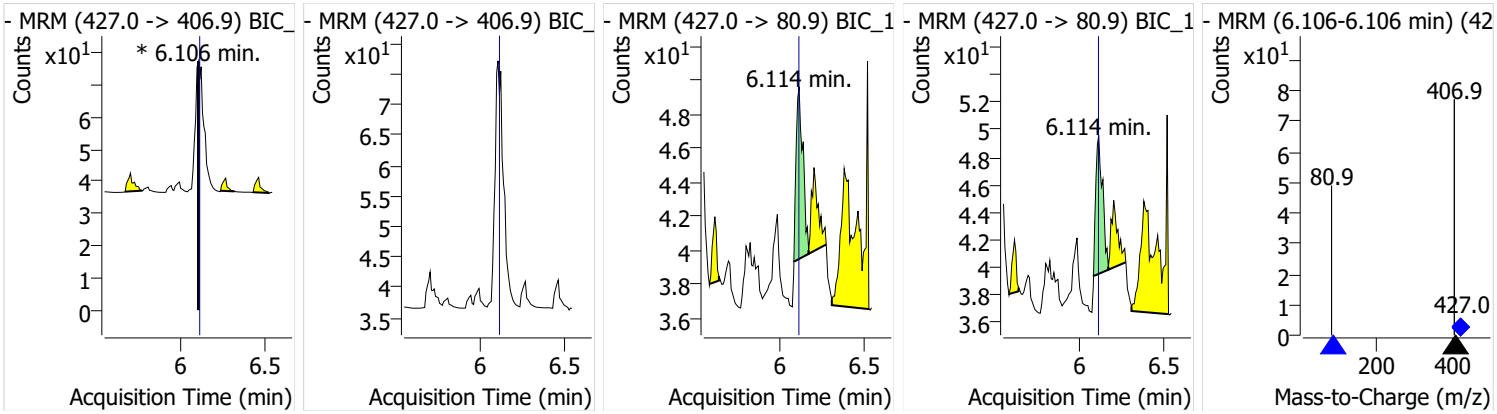
4:2FTS



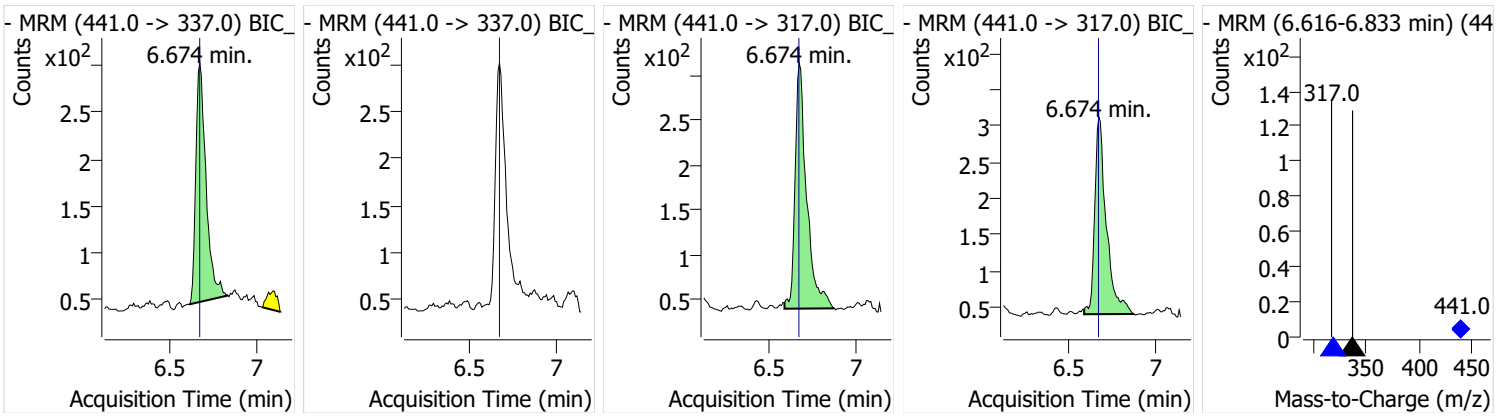
5:3FTCA



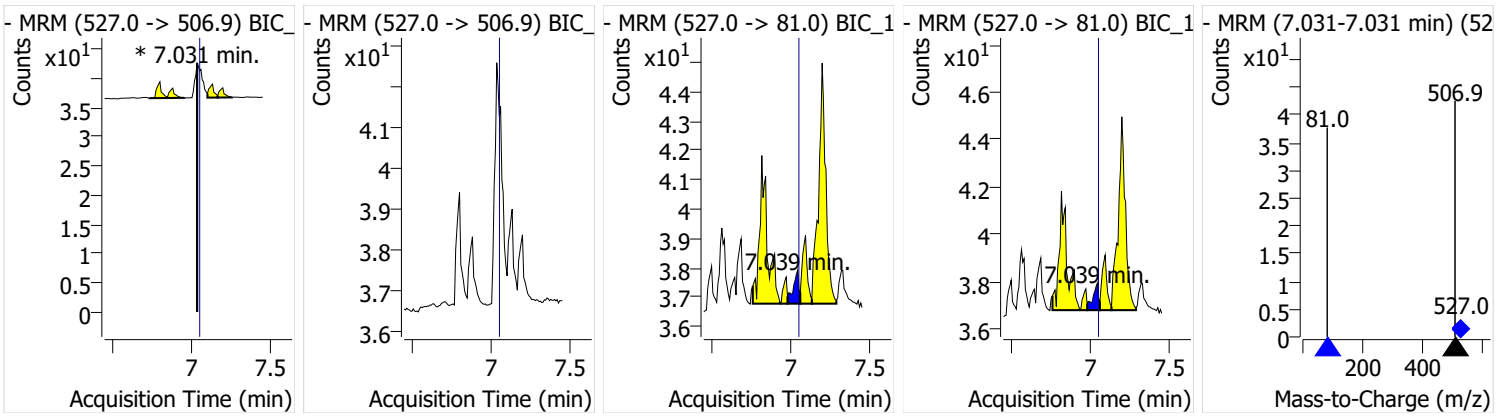
6:2FTS



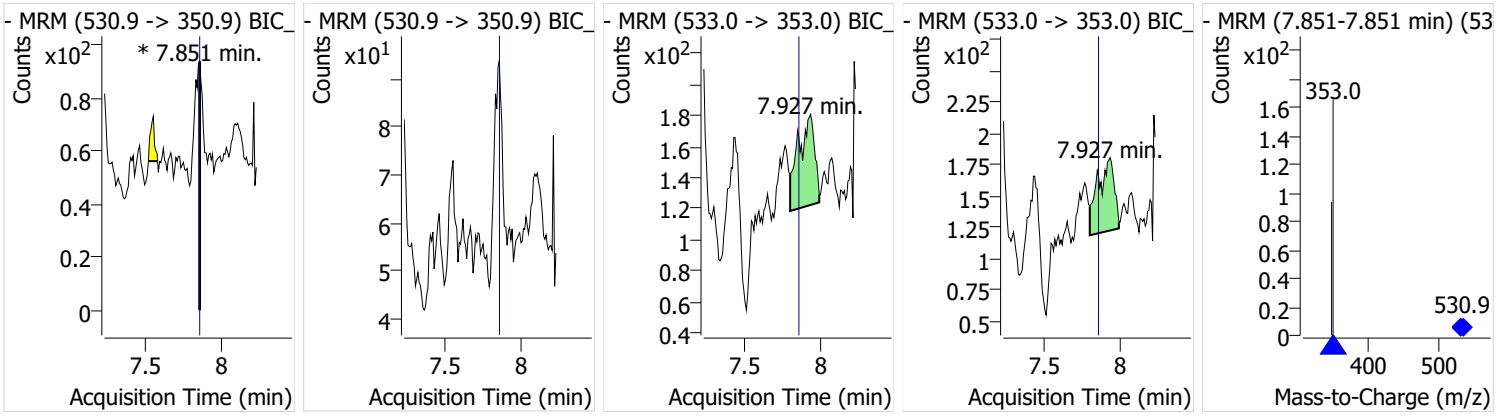
7:3FTCA



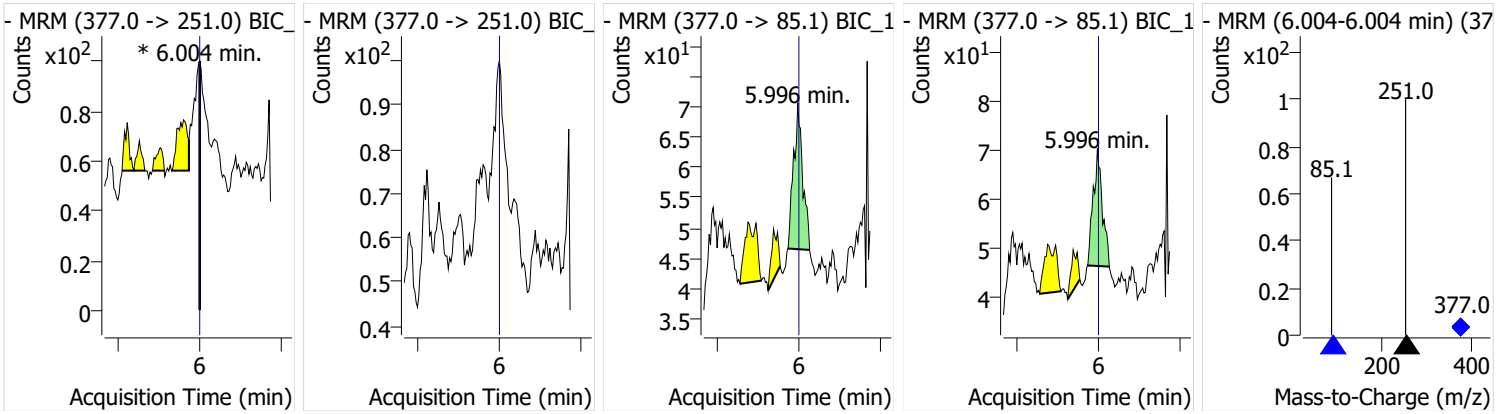
8:2FTS



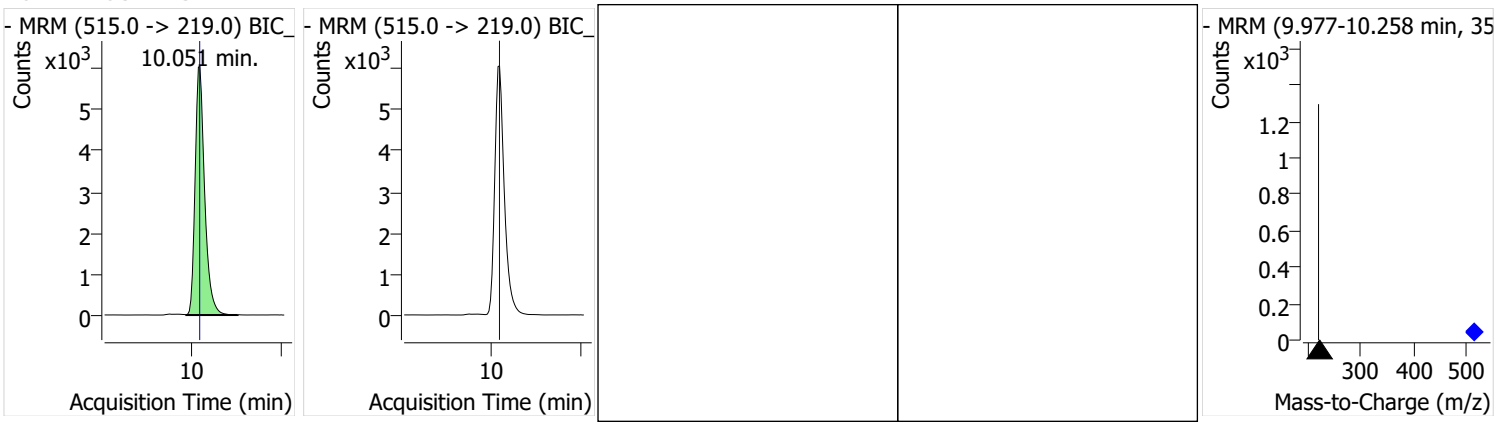
9Cl-PF3ONS



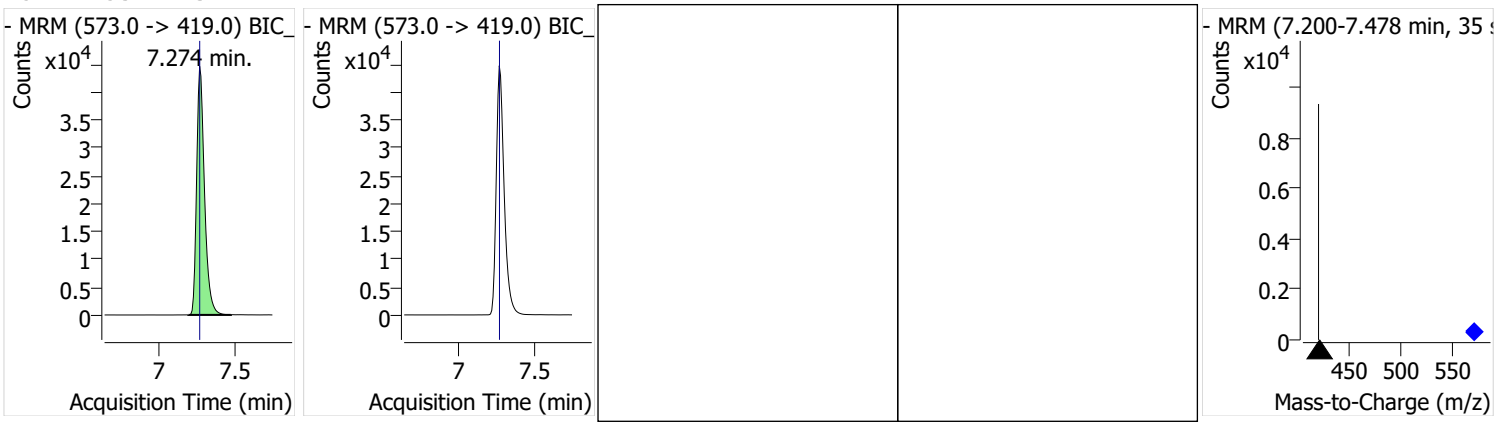
ADONA



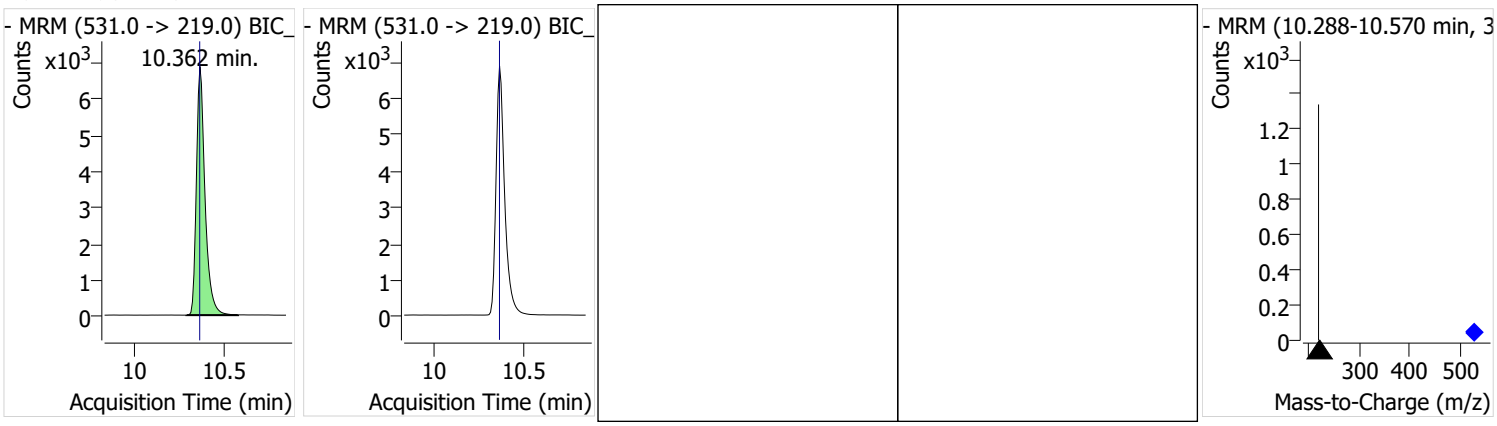
D3-NMeFOSA - ISTD



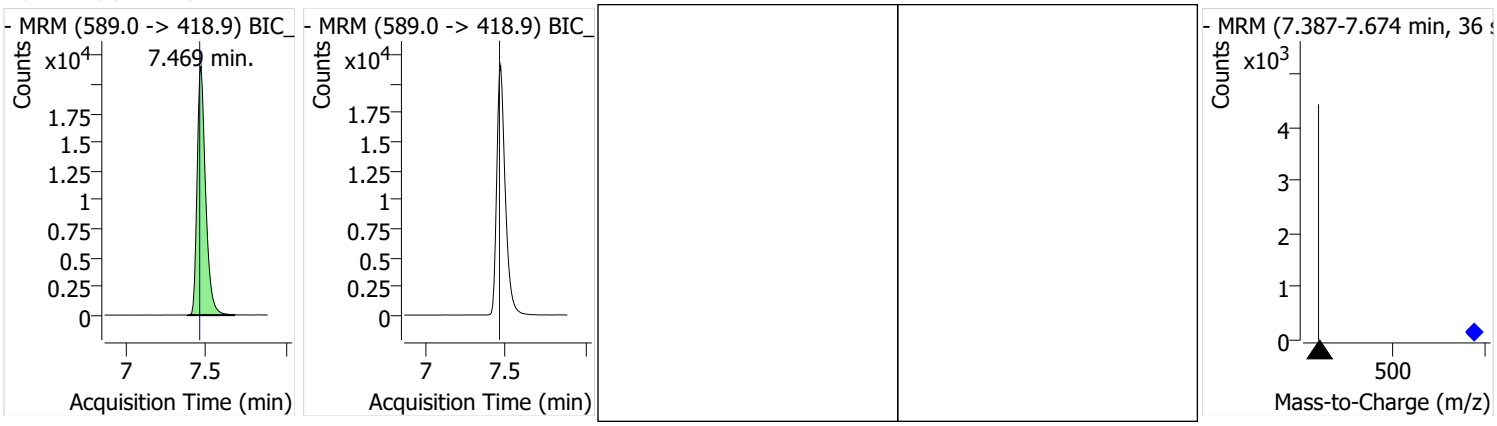
D3-NMeFOSAA - ISTD



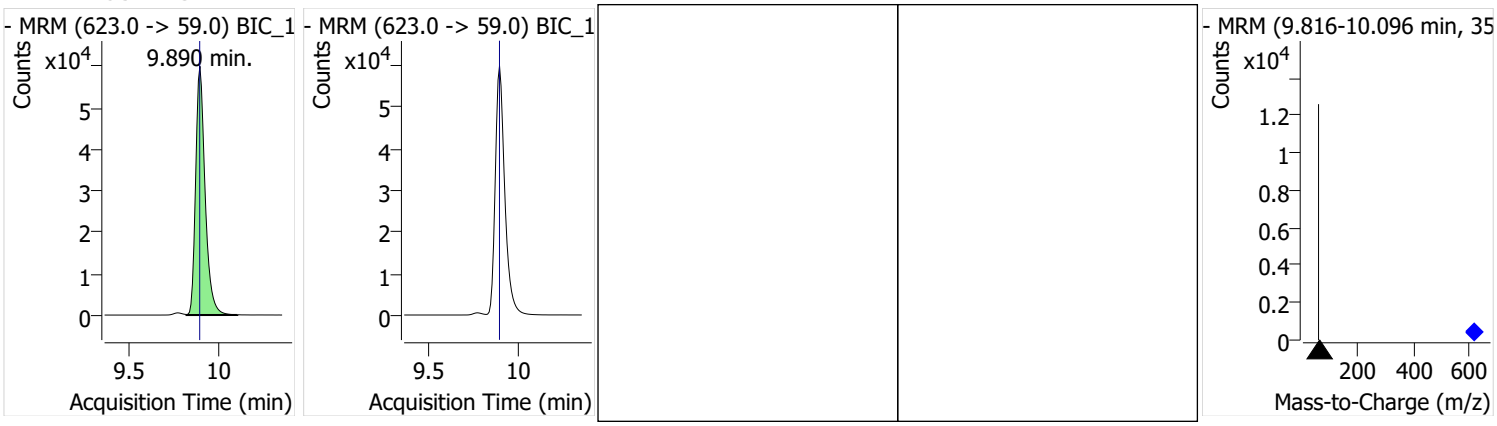
D5-NEtFOSA - ISTD



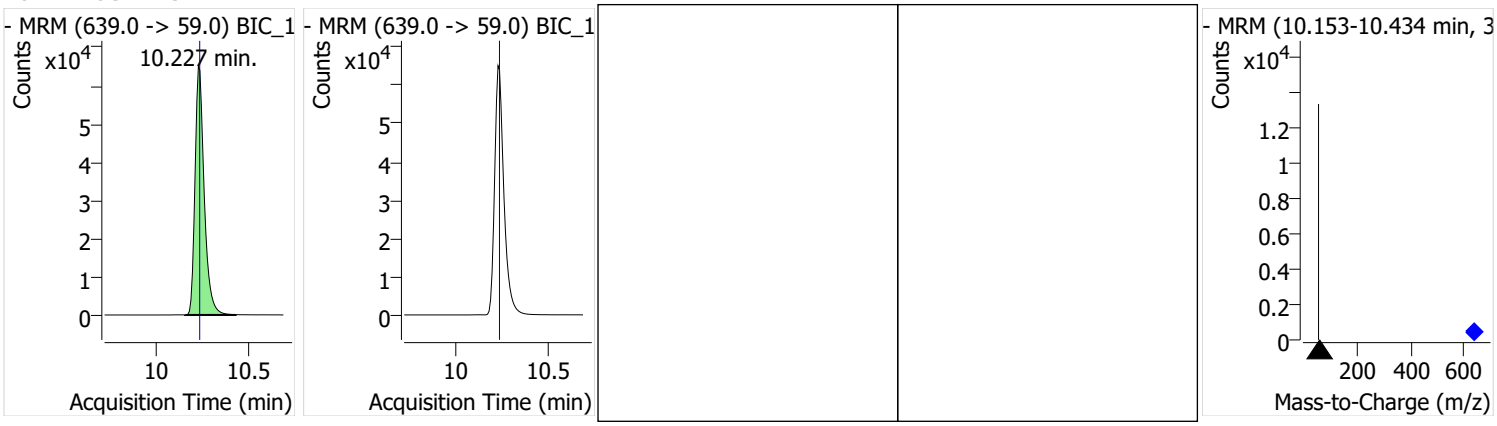
D5-NEtFOSAA - ISTD



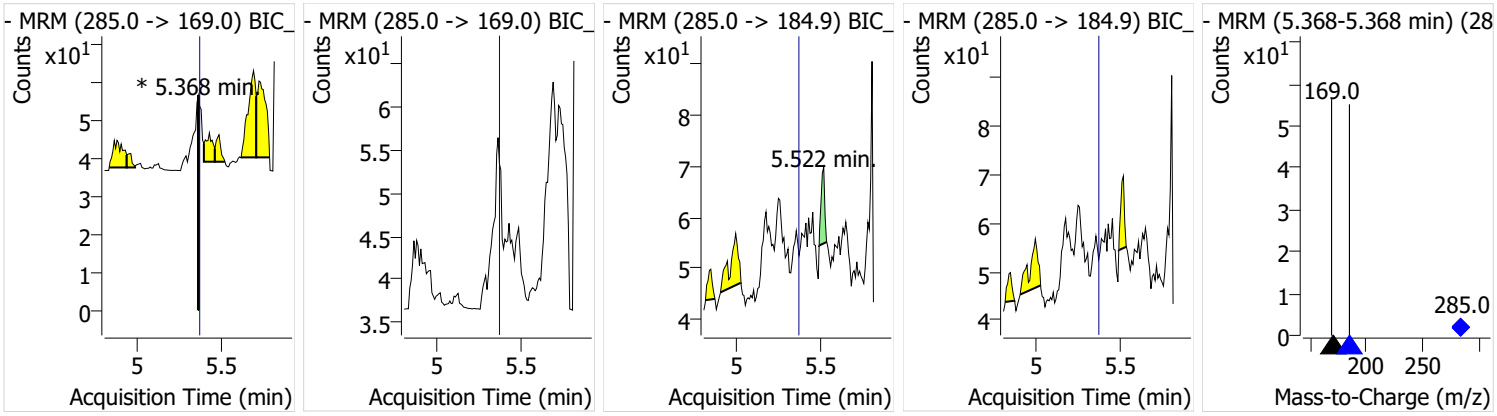
D7-NMeFOSE - ISTD



D9-NEtFOSE - ISTD



HFPO-DA



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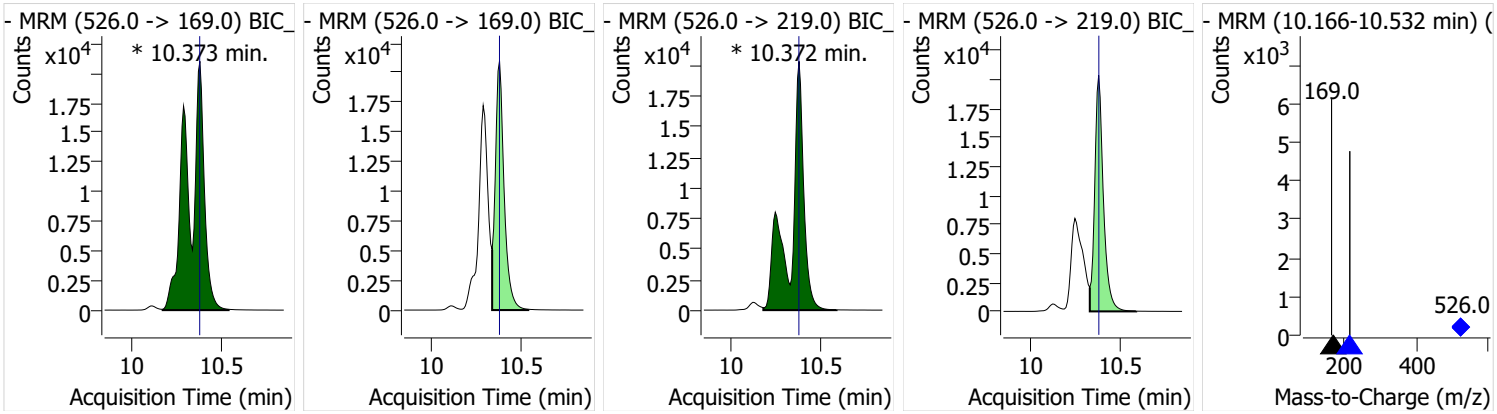

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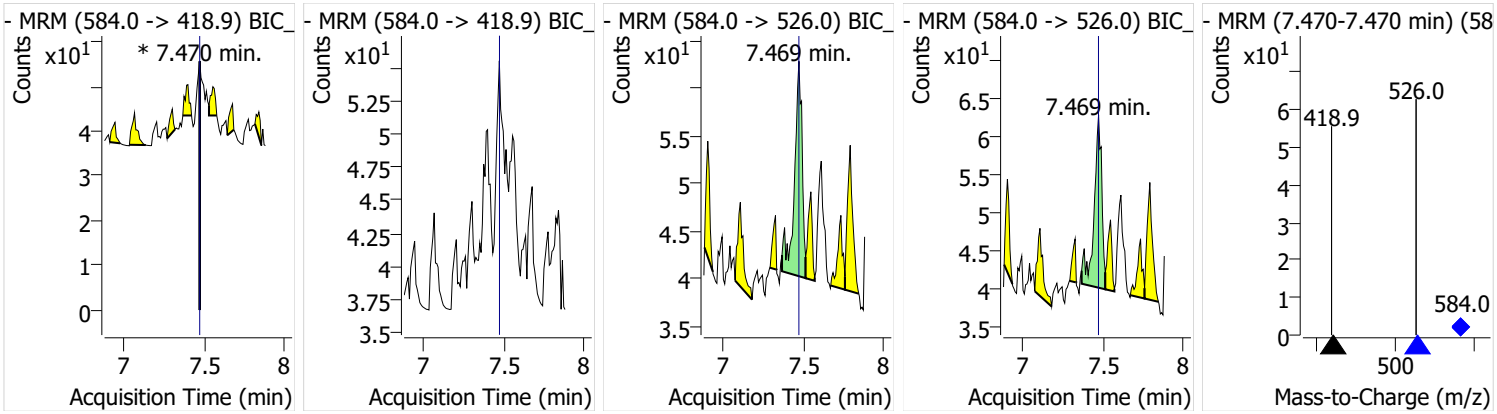

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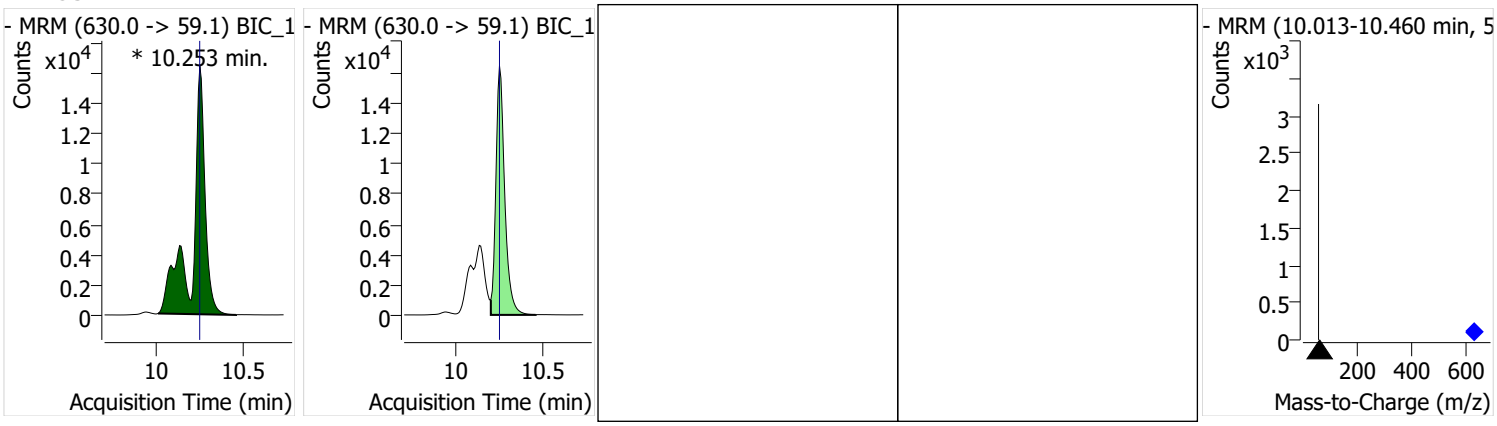

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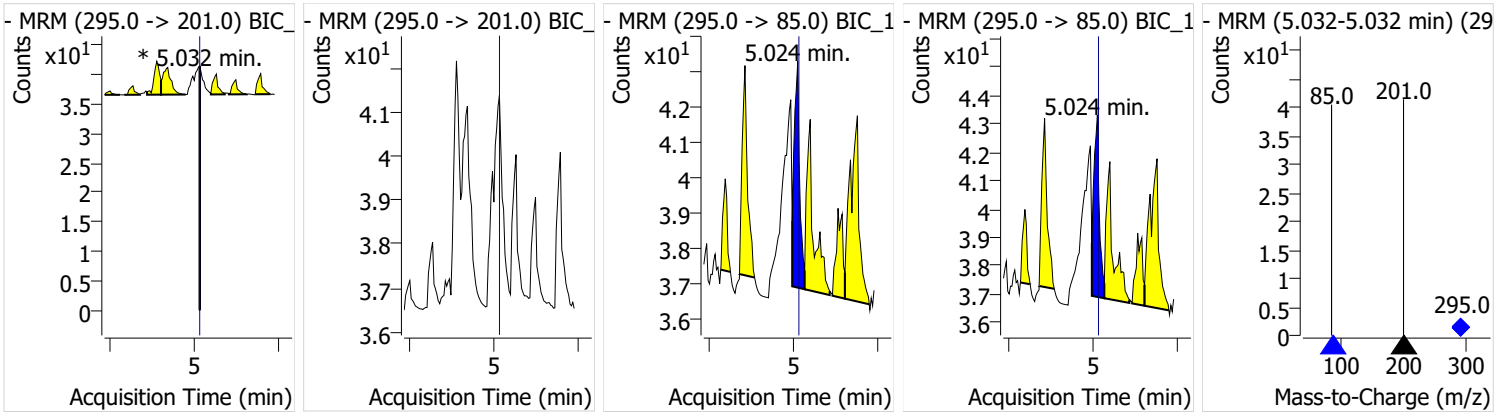

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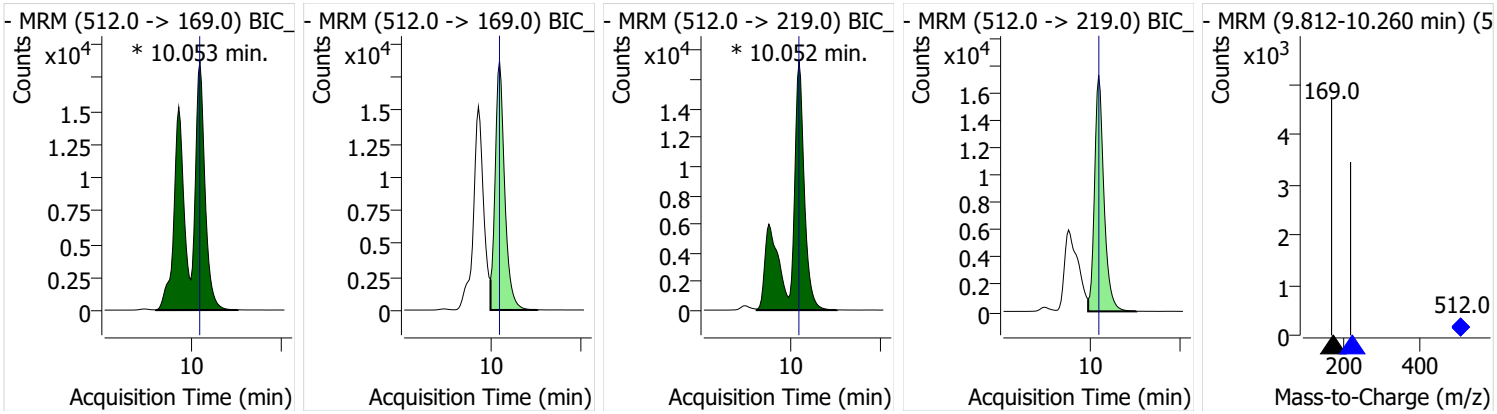

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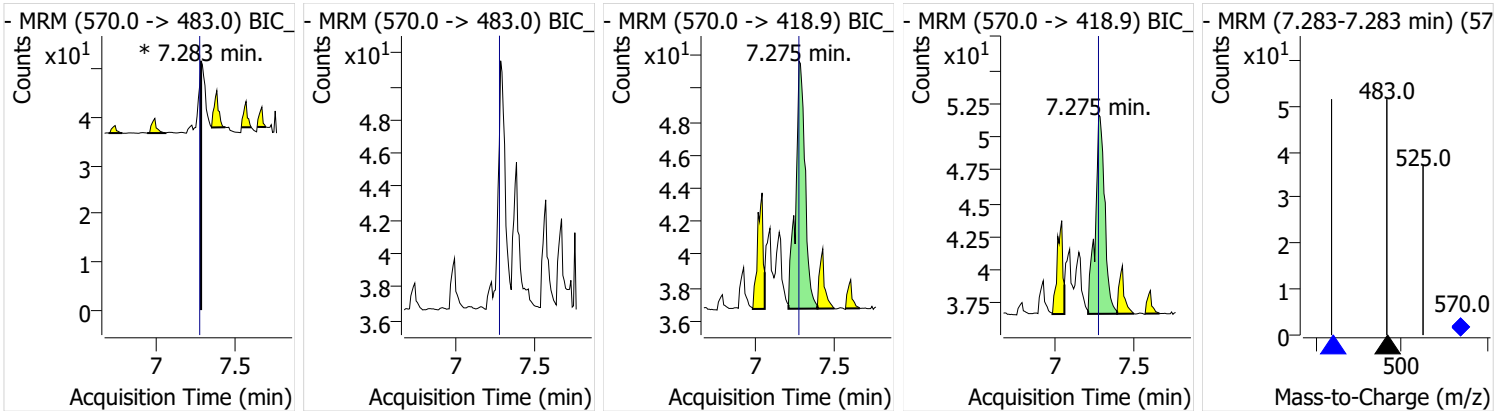

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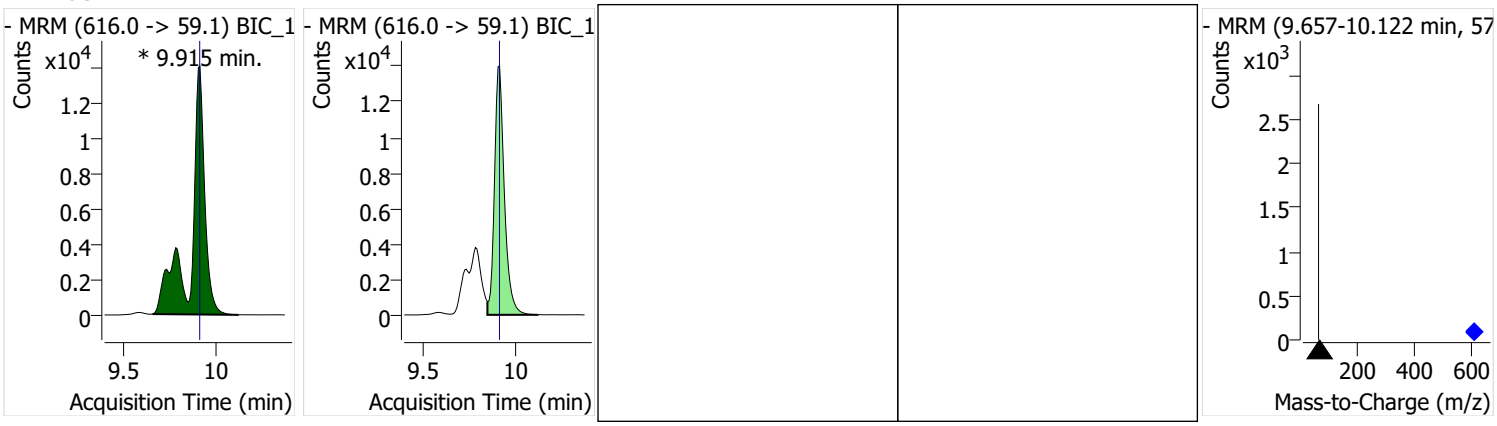

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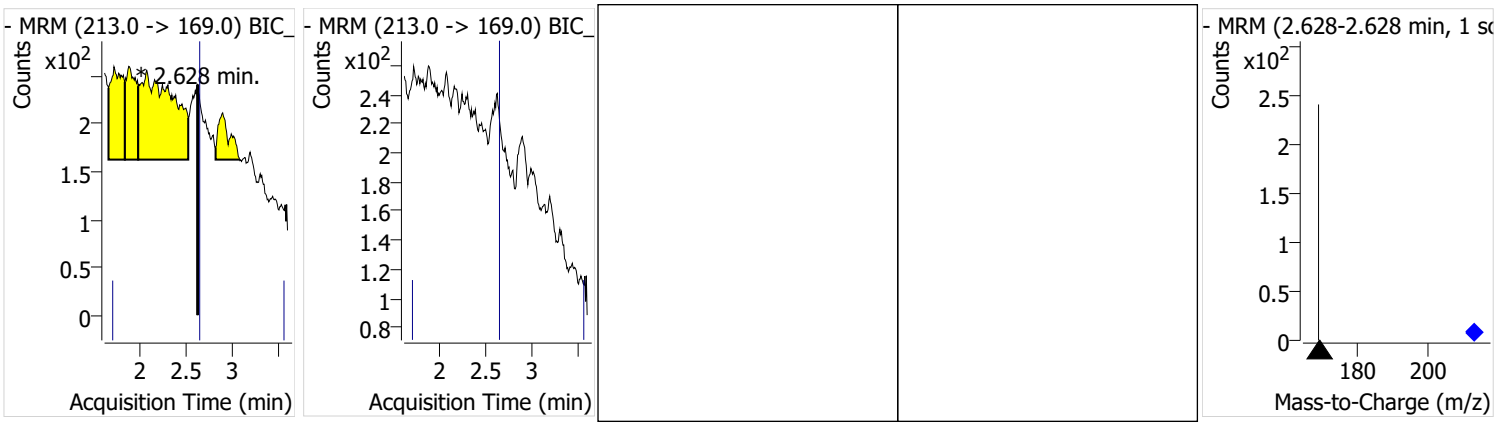

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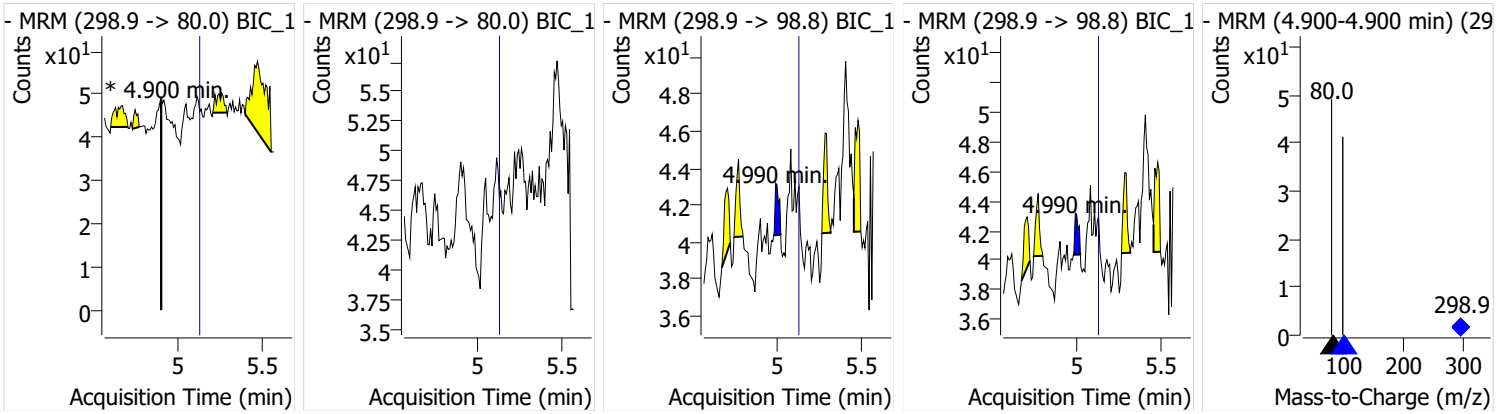

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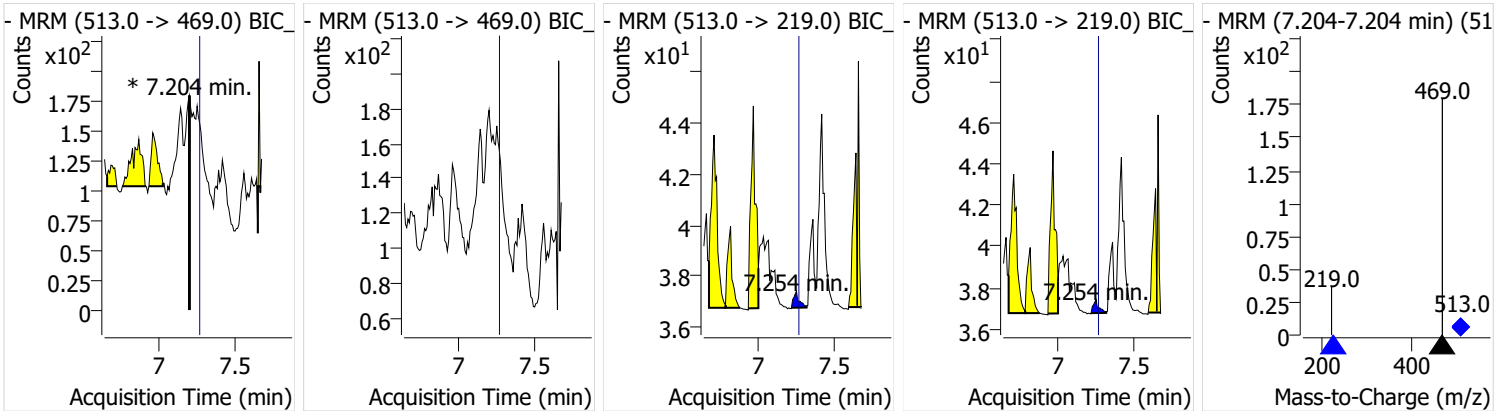

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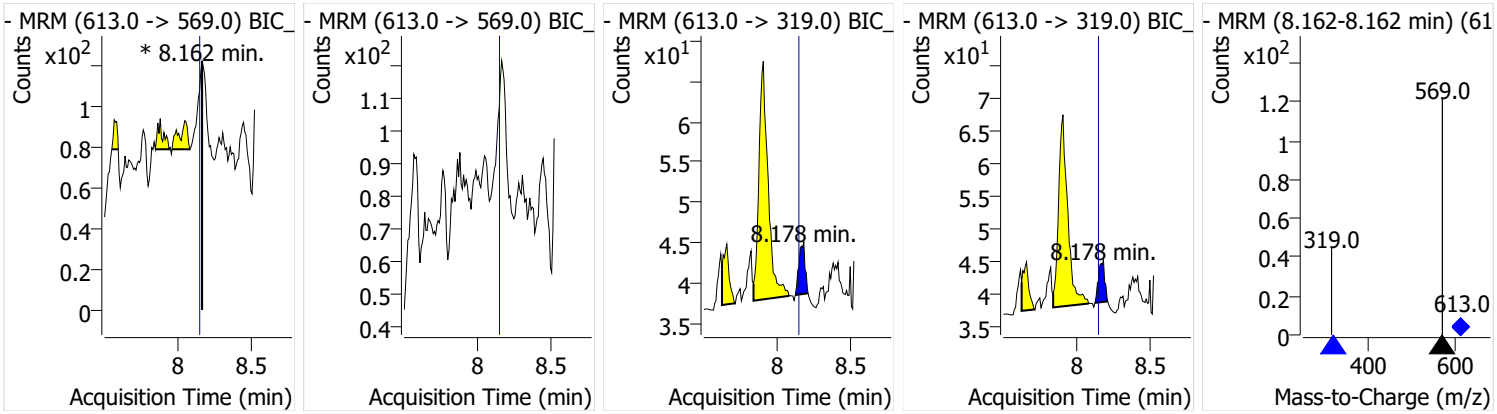

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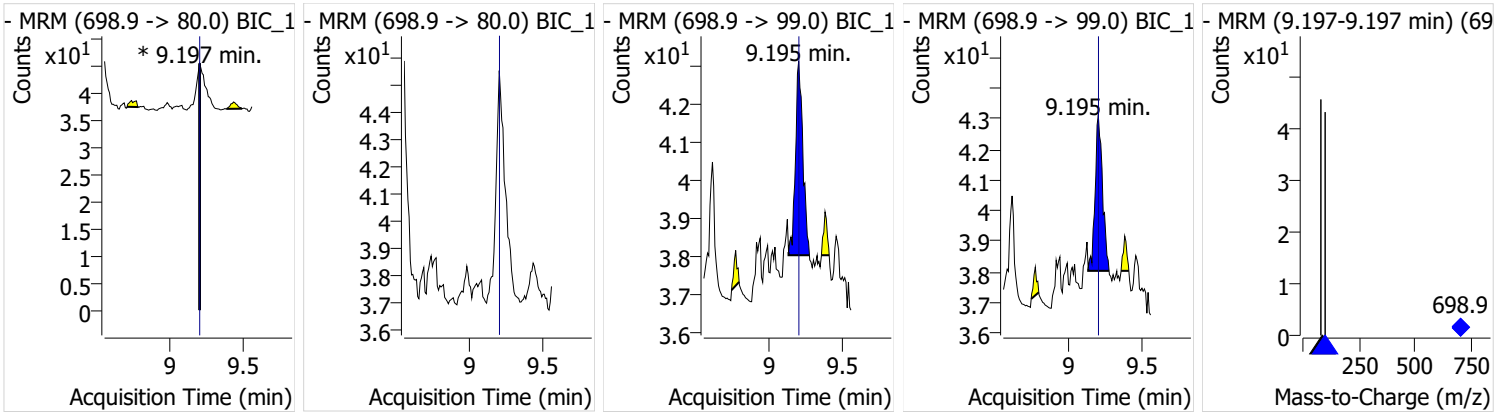

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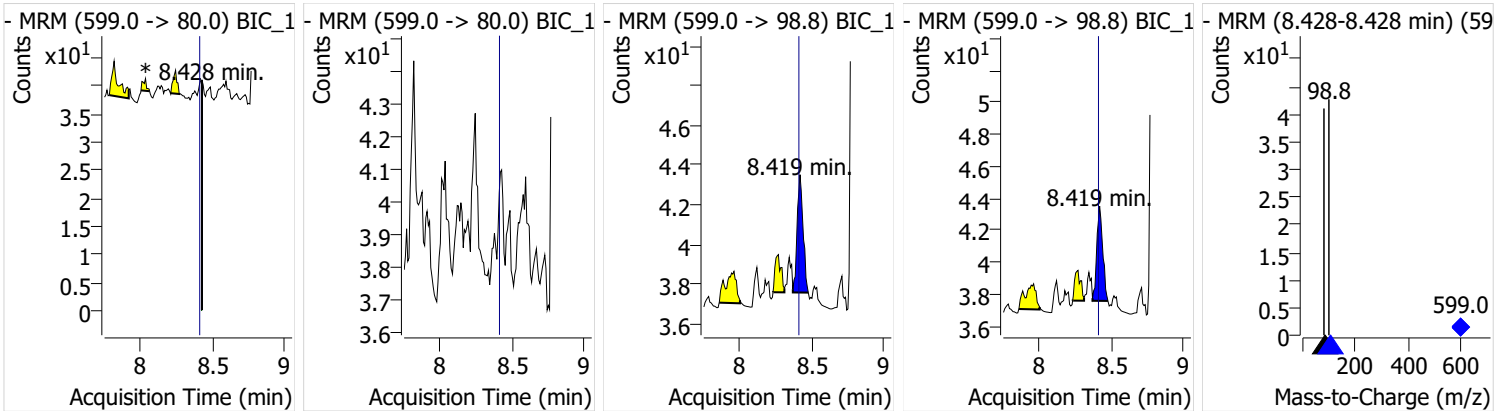

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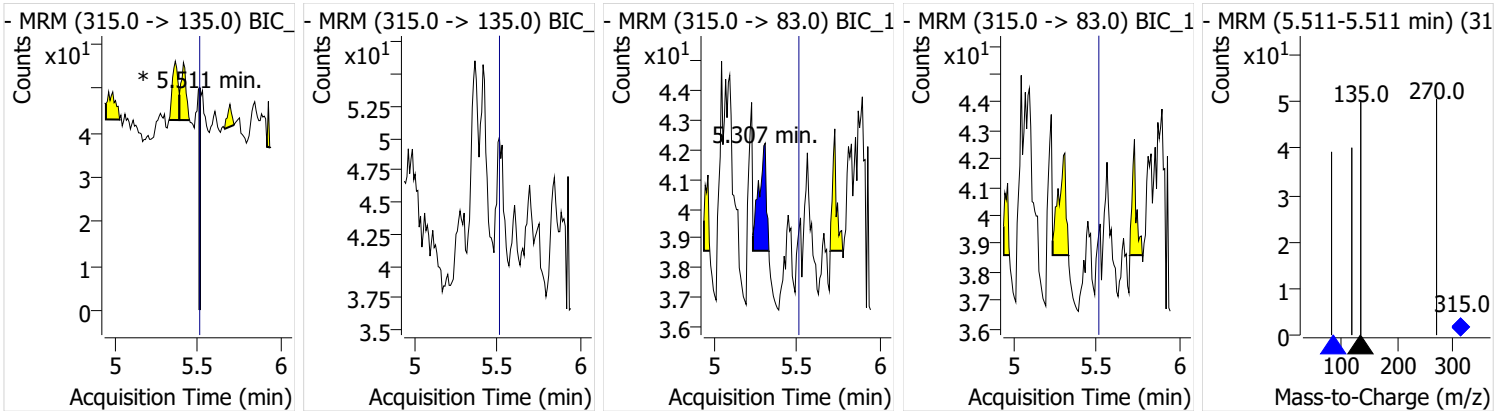

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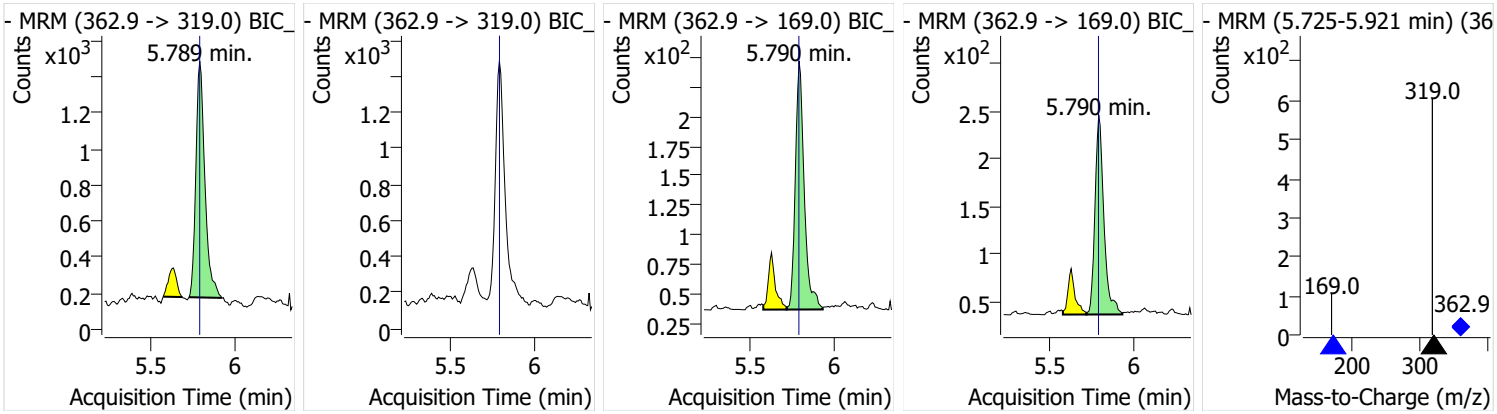

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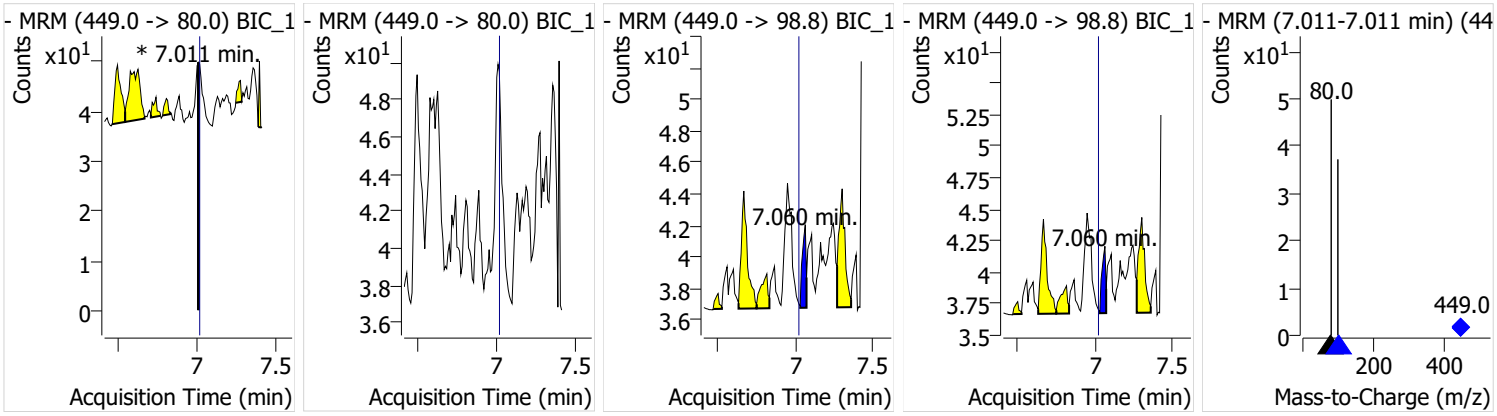

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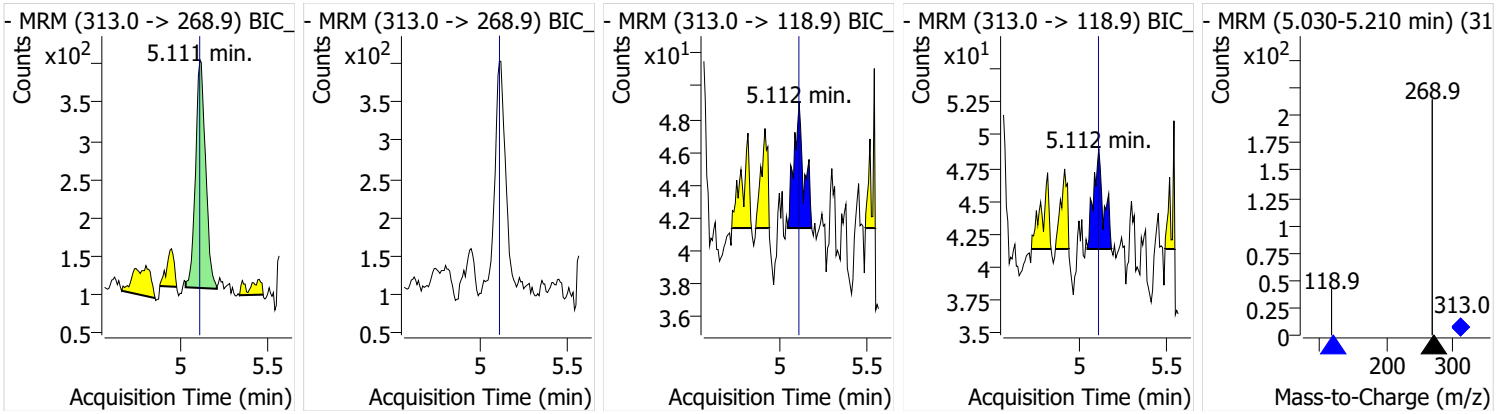

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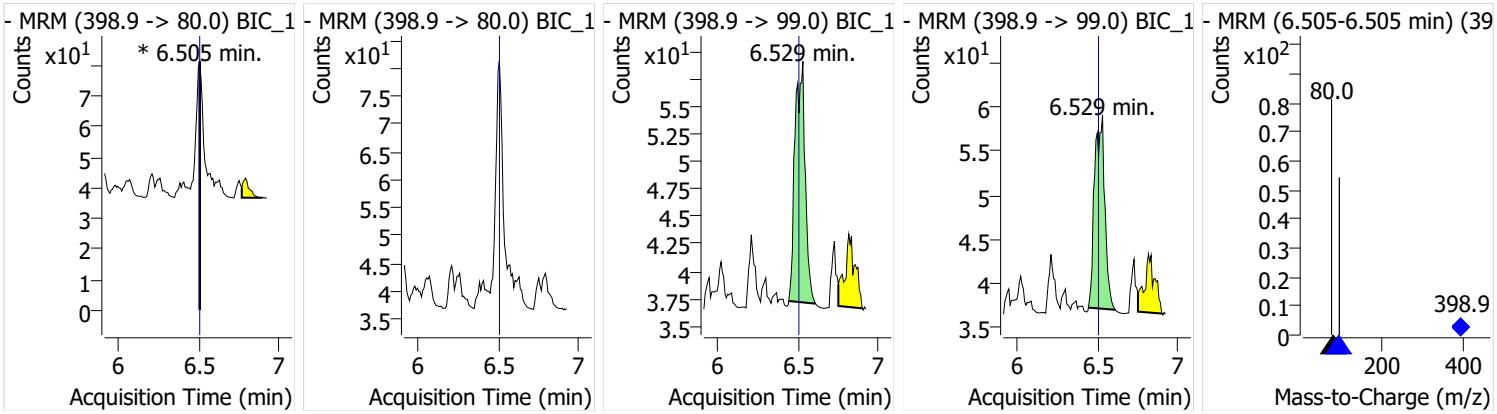

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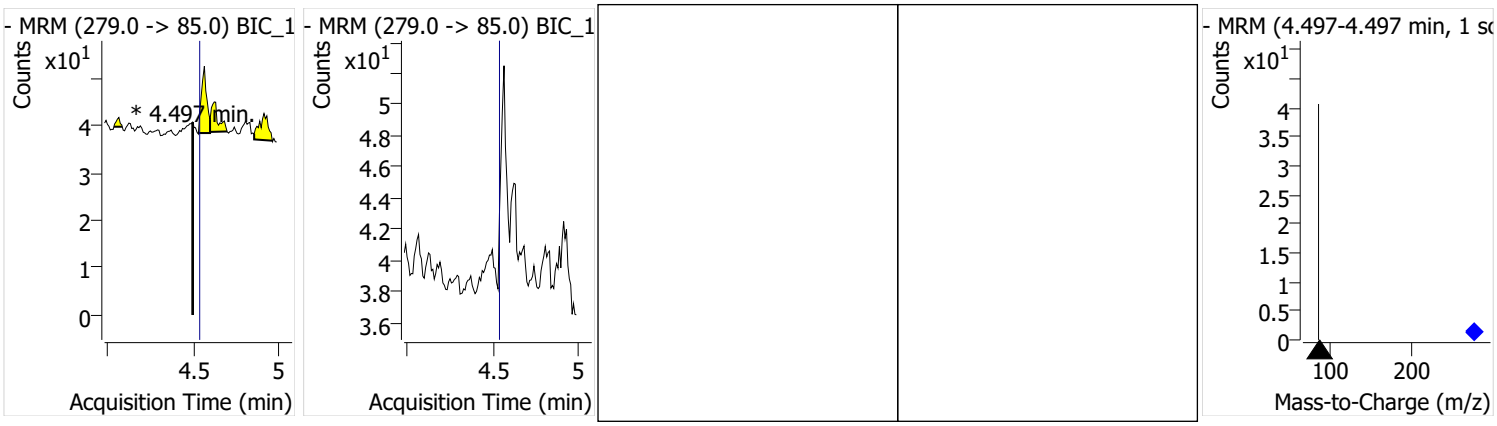

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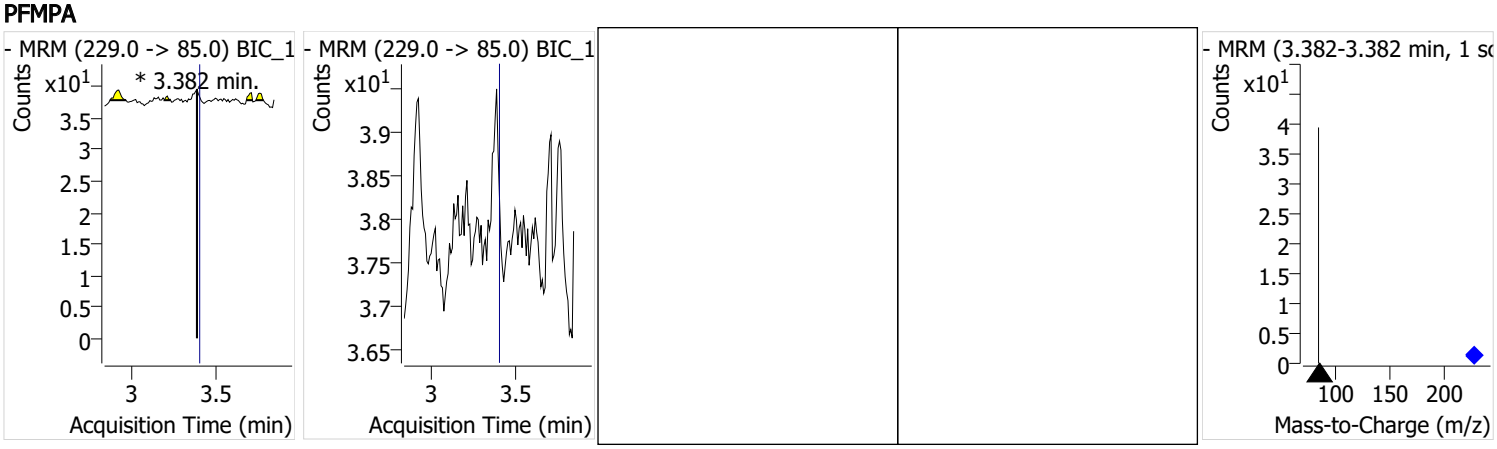

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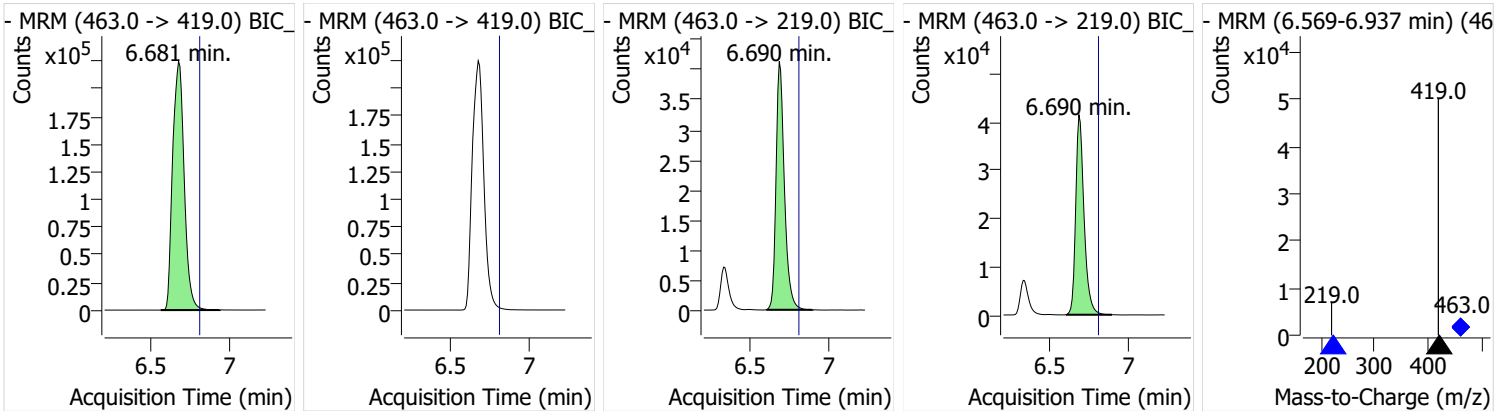

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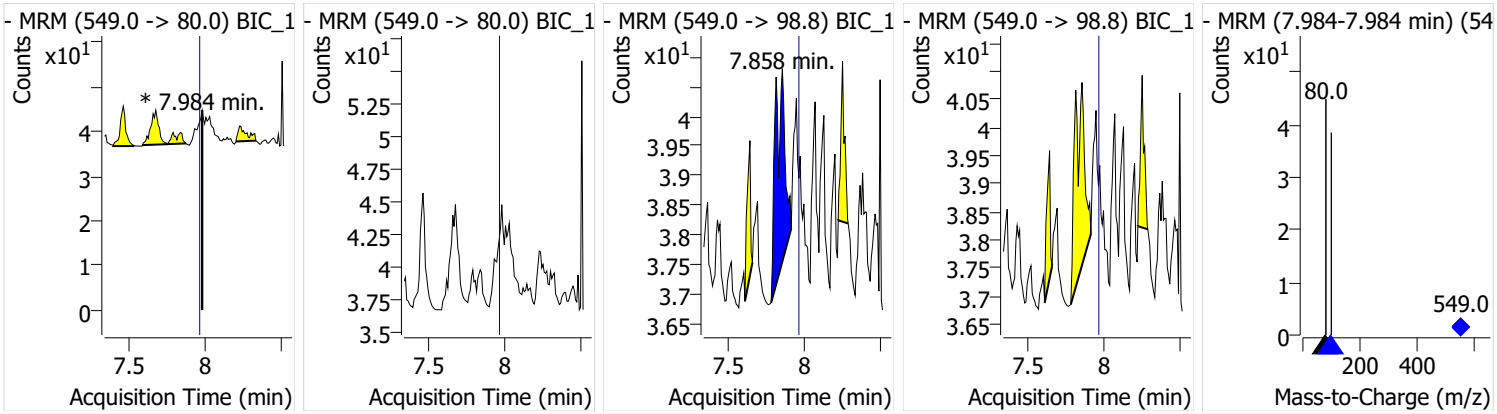
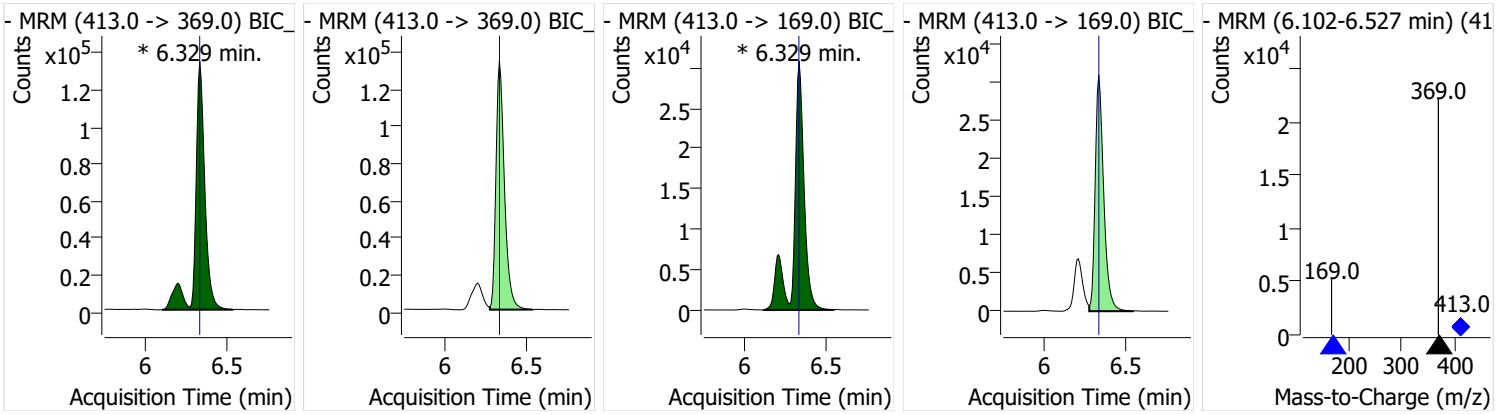
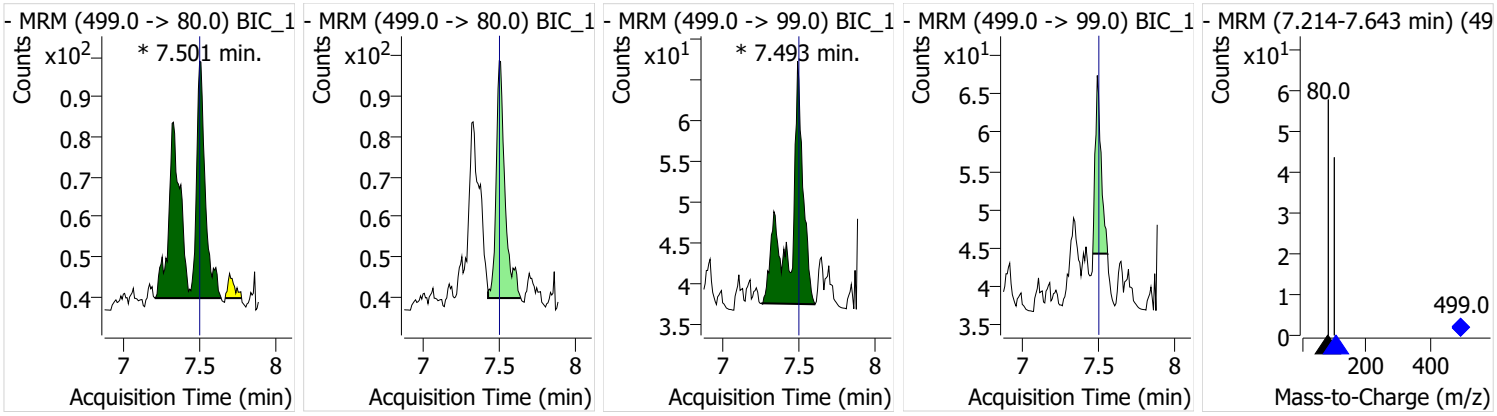


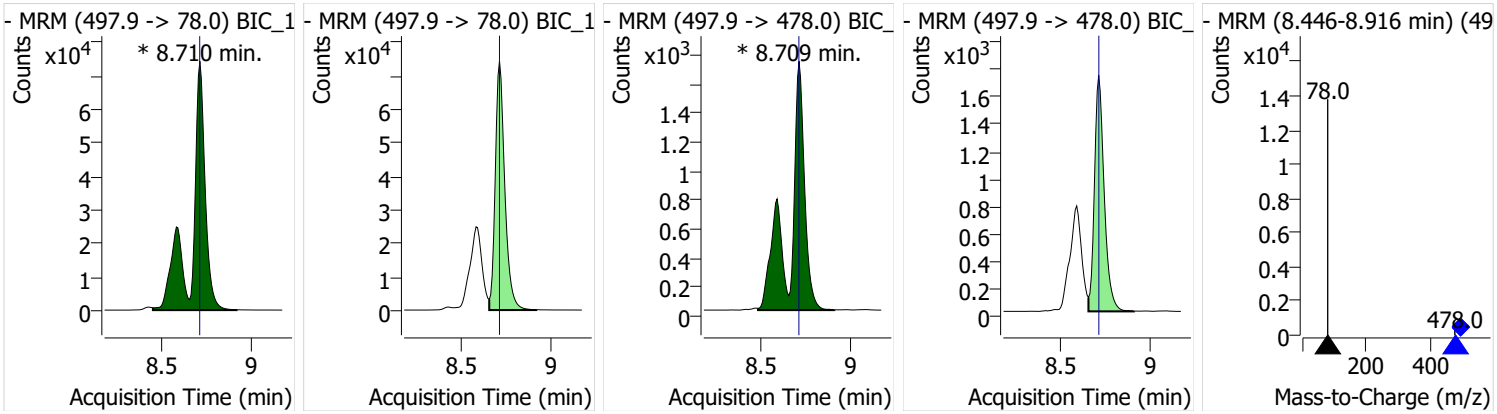
PFOA



PFOS



PFOSA



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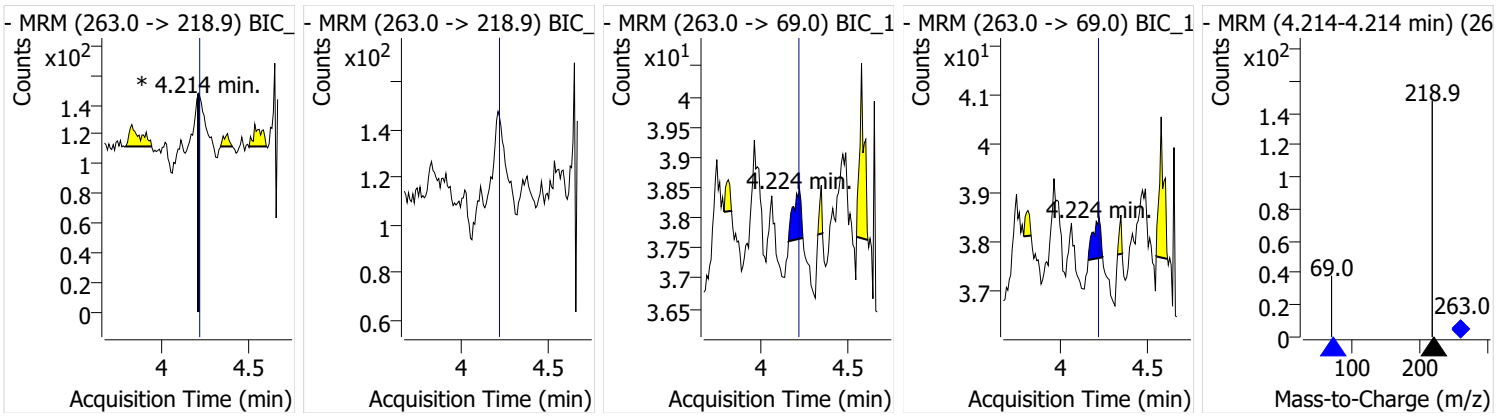

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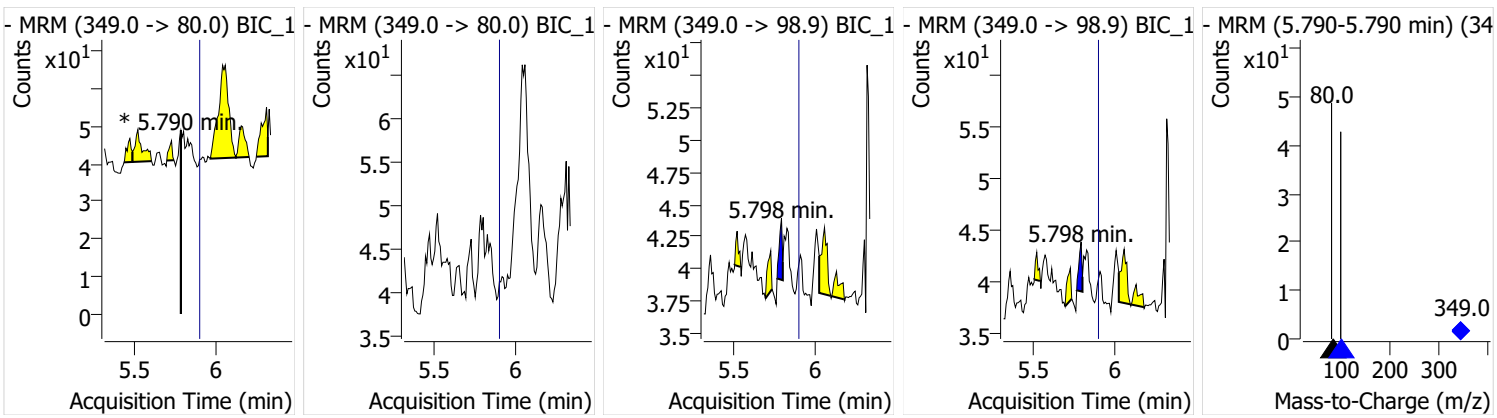

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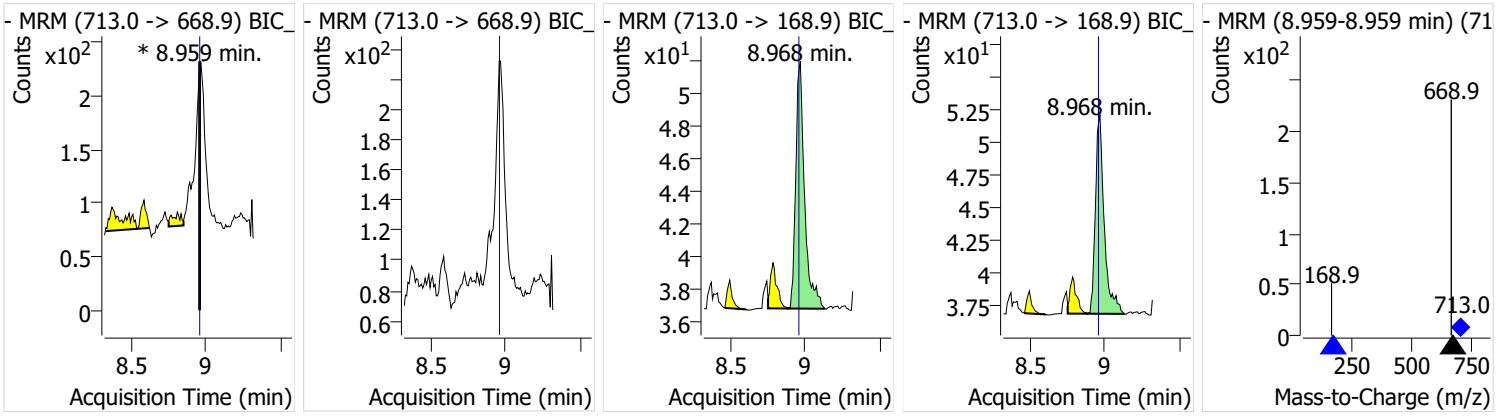
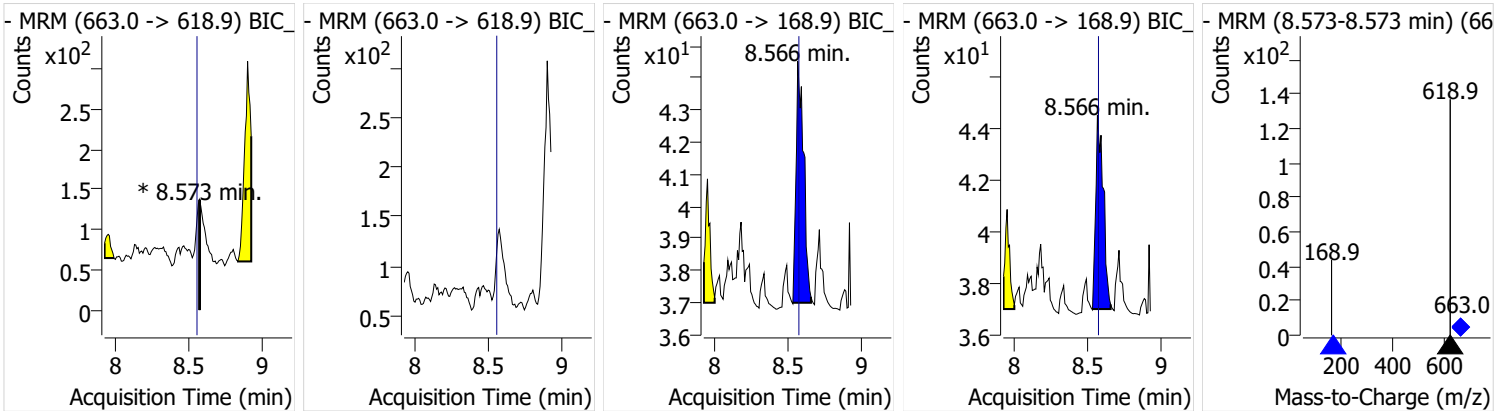


PFTrDA



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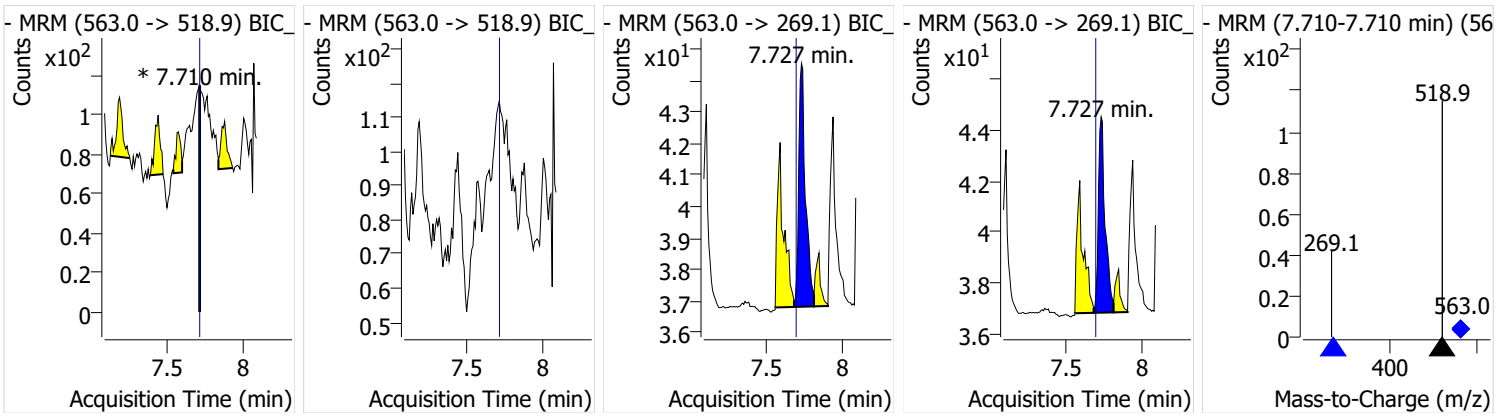

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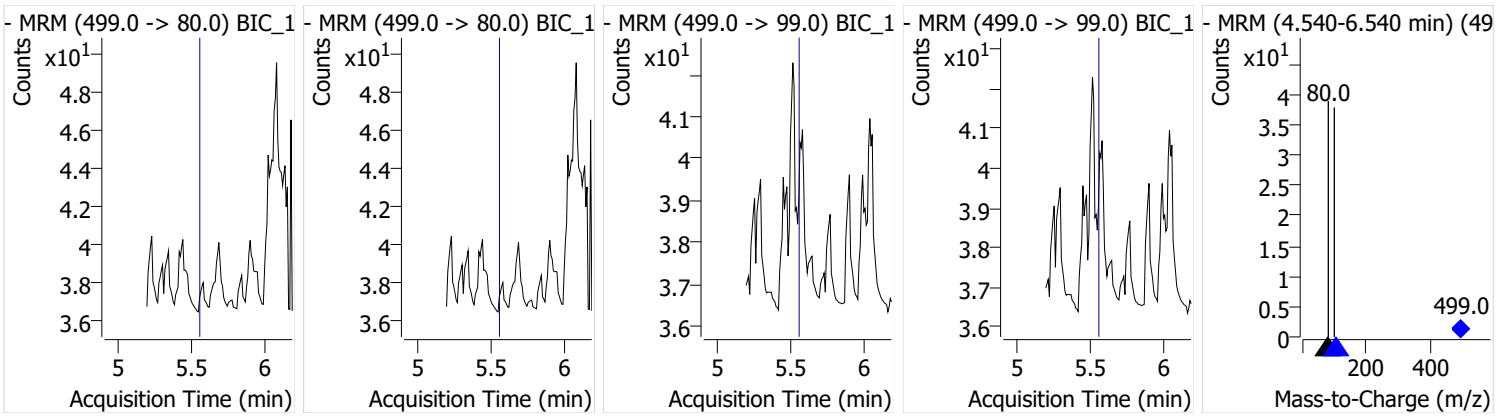
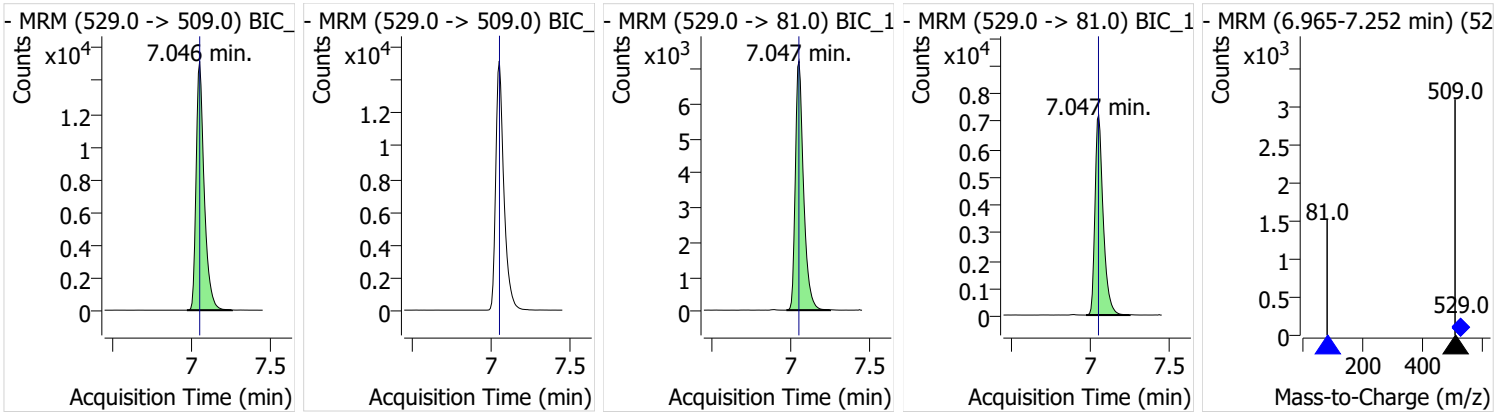
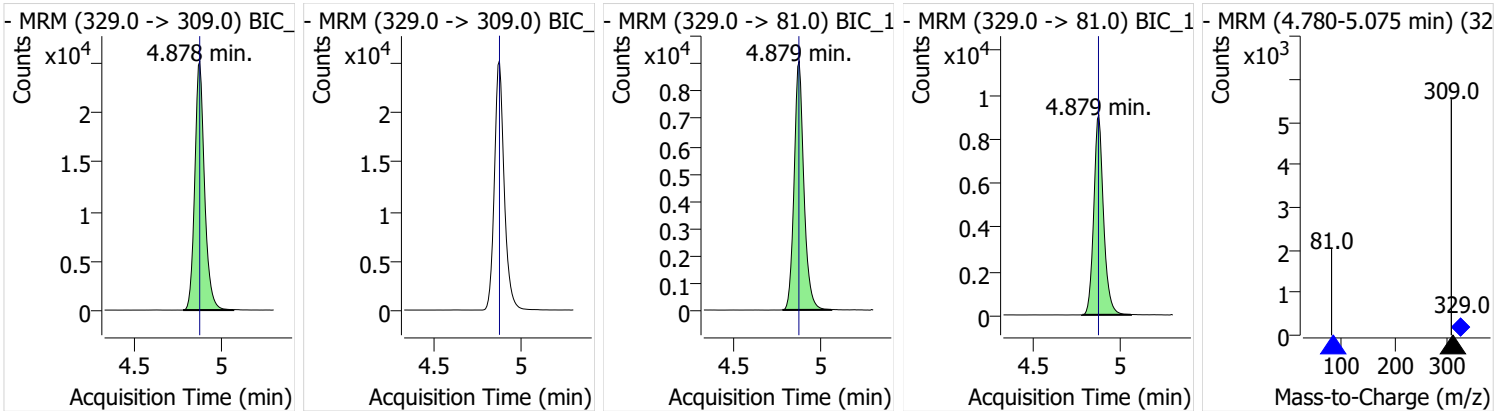


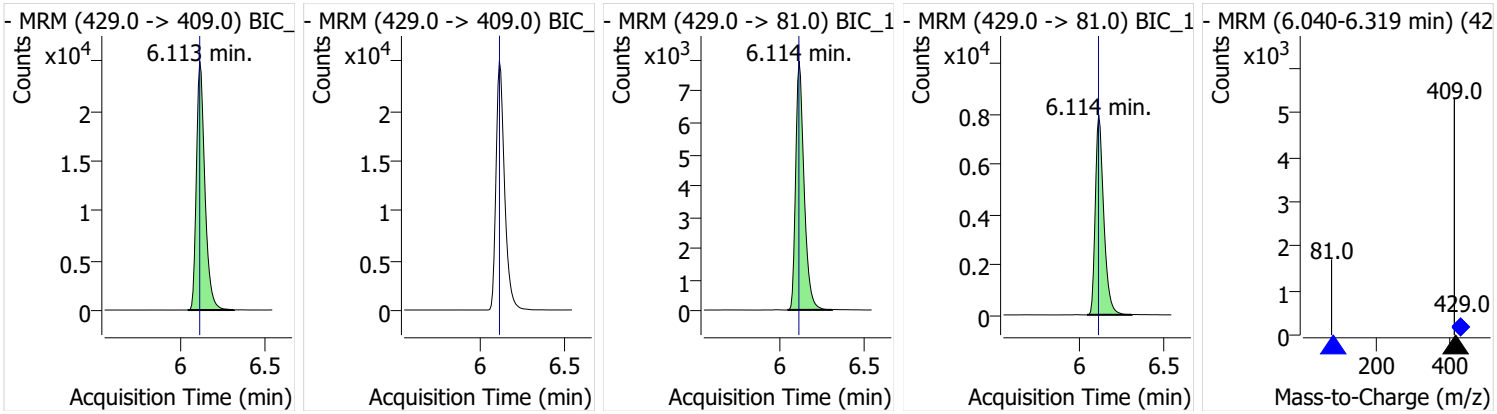
13C2-8:2FTS



13C2-4:2FTS



13C2-6:2FTS



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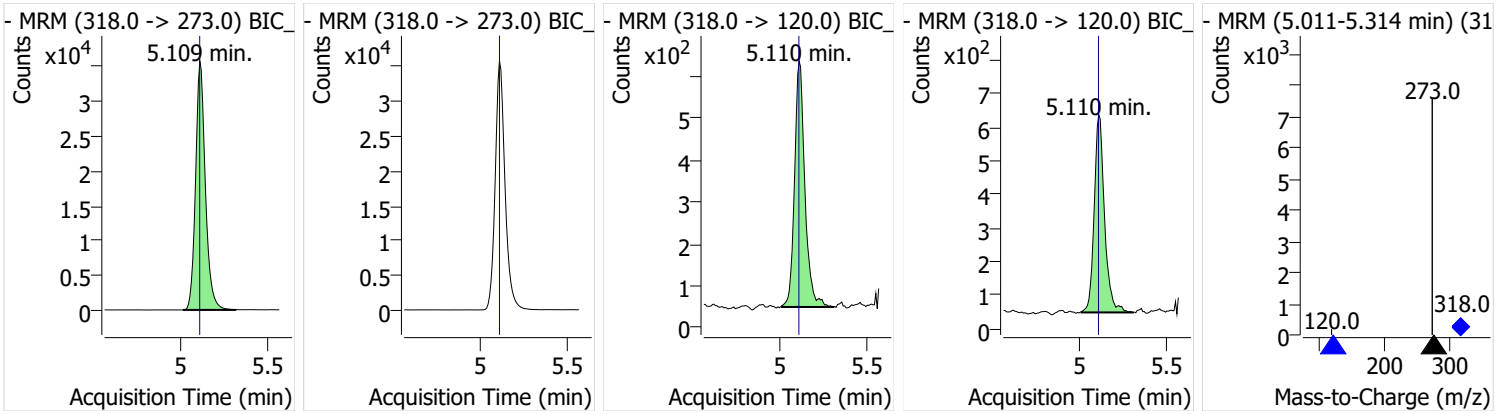

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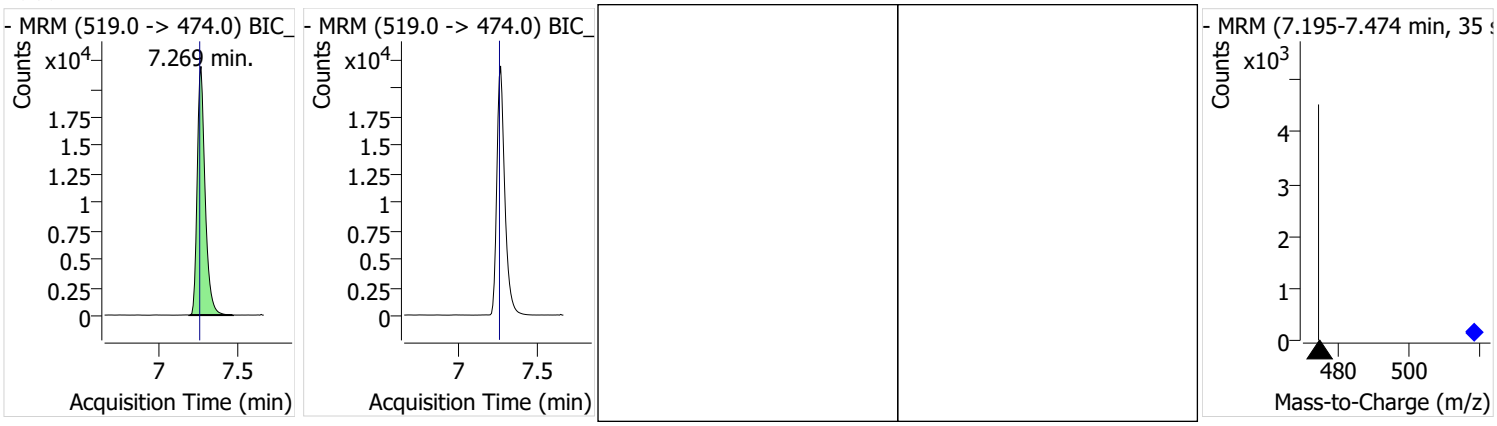

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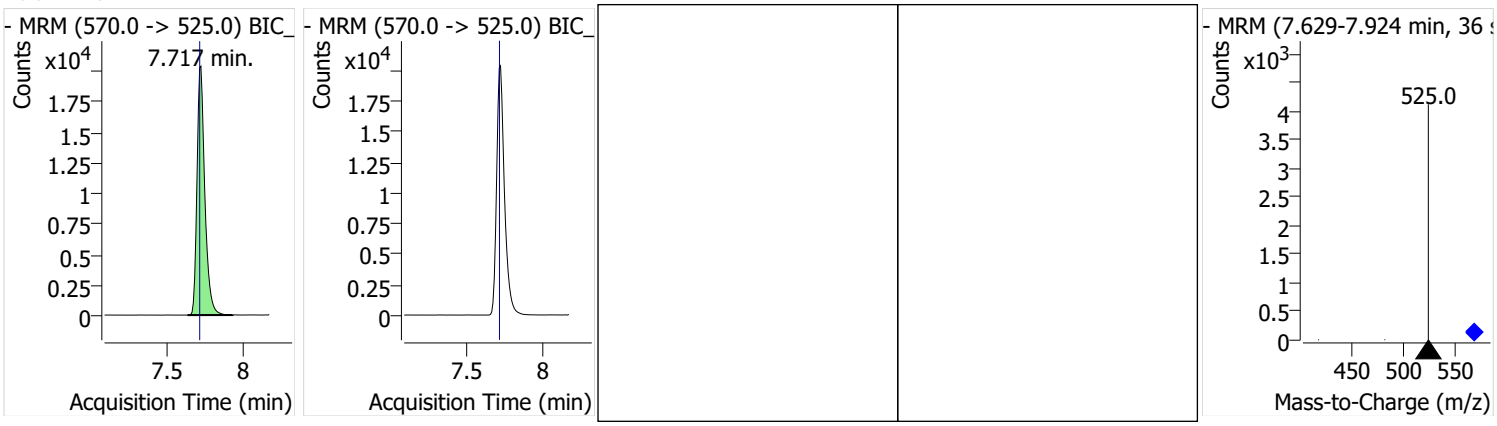

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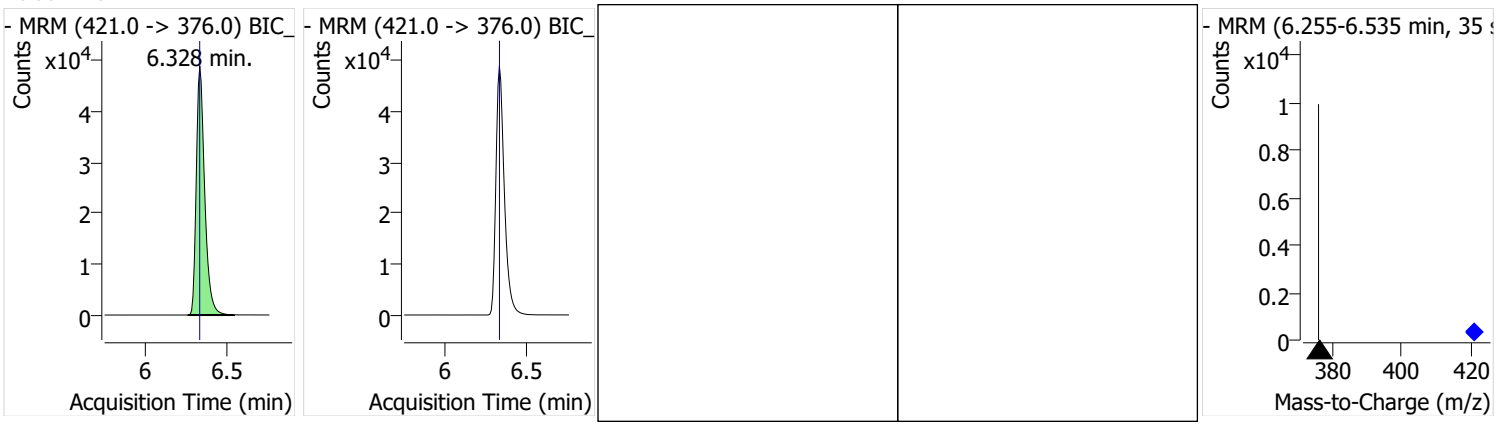
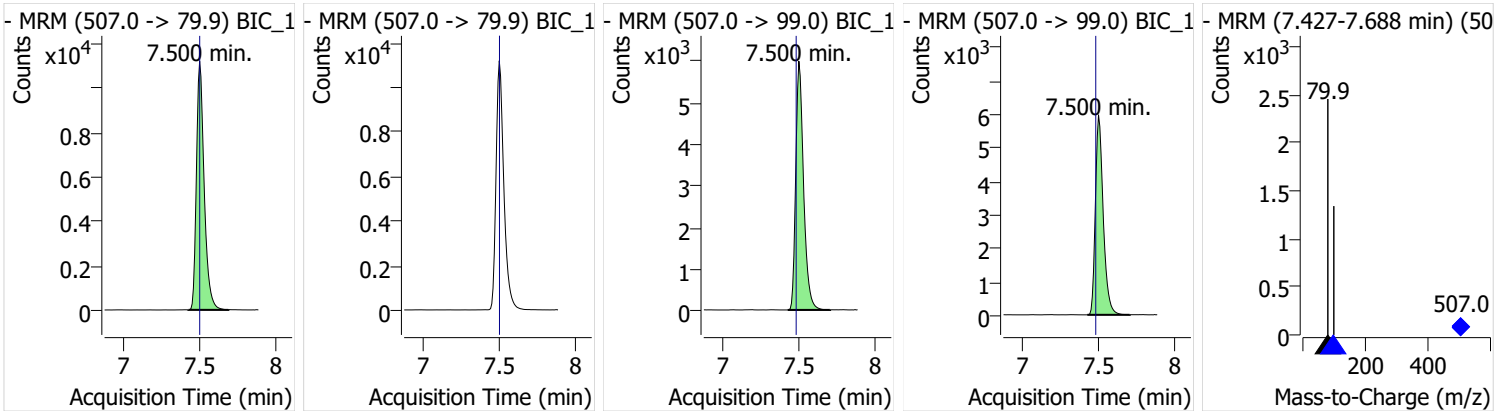
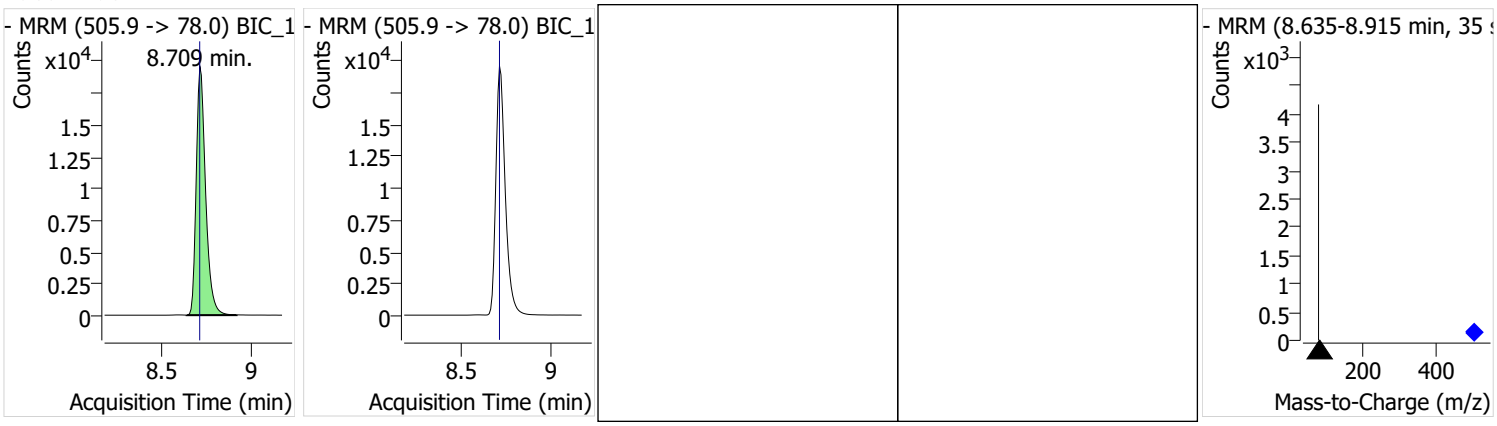


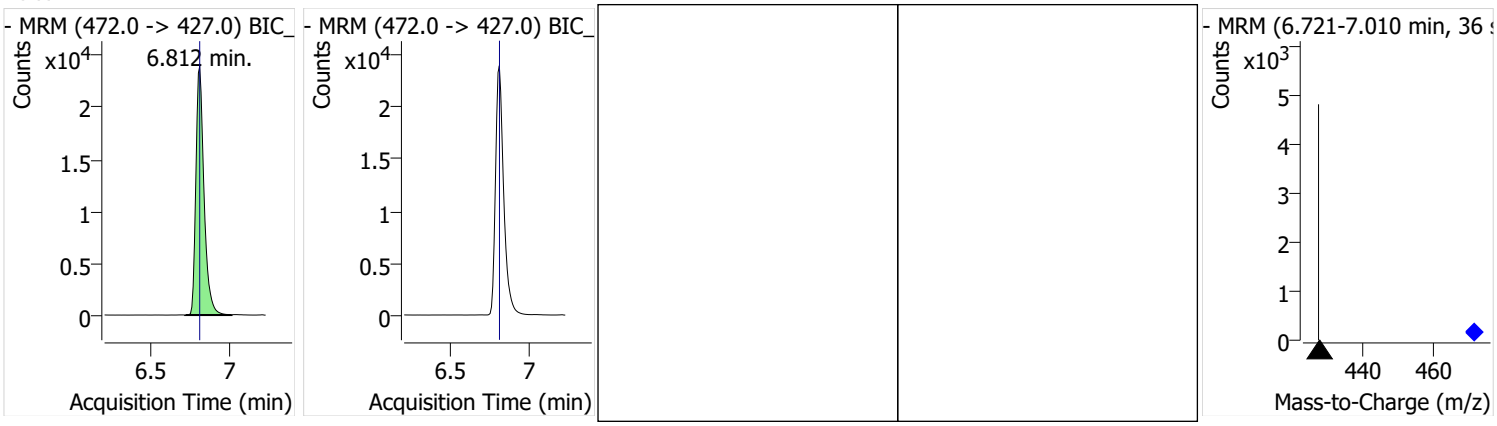
13C8-PFOS



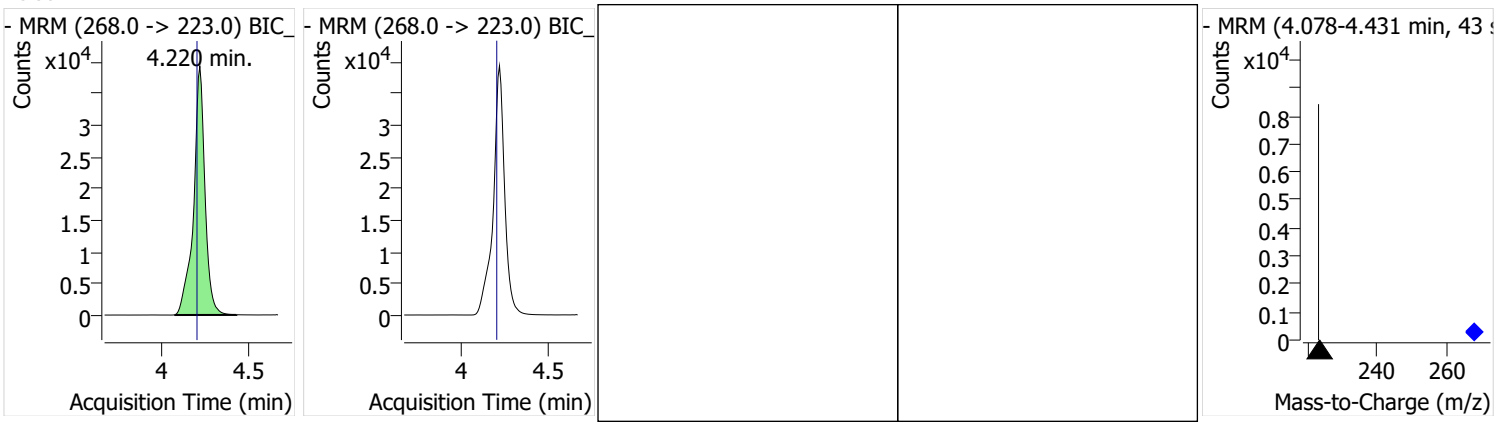
13C8-PFOSA



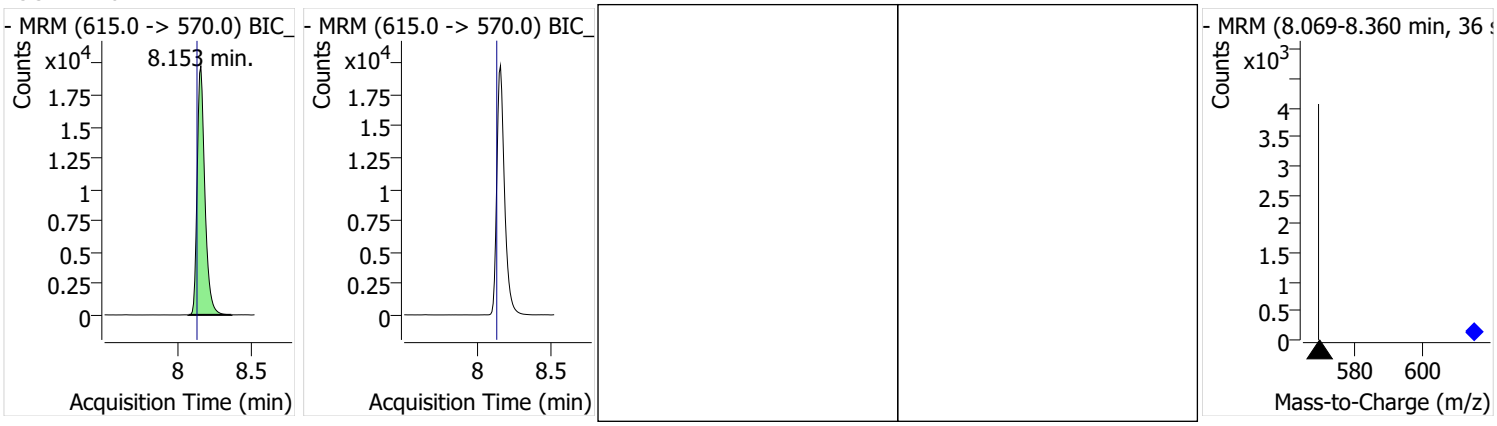
13C9-PFNA



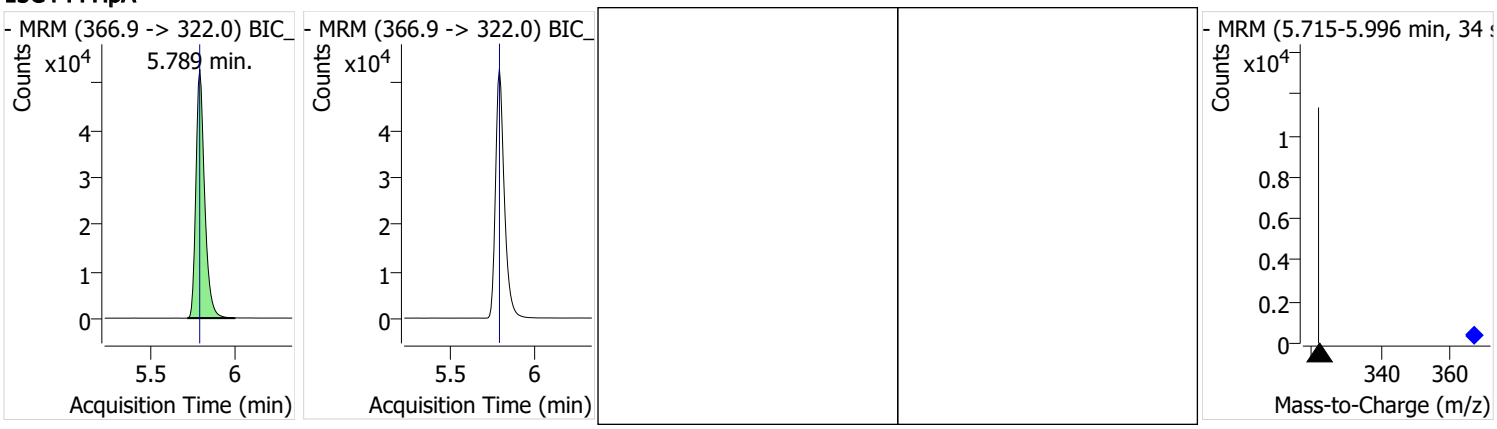
13C5-PFPeA



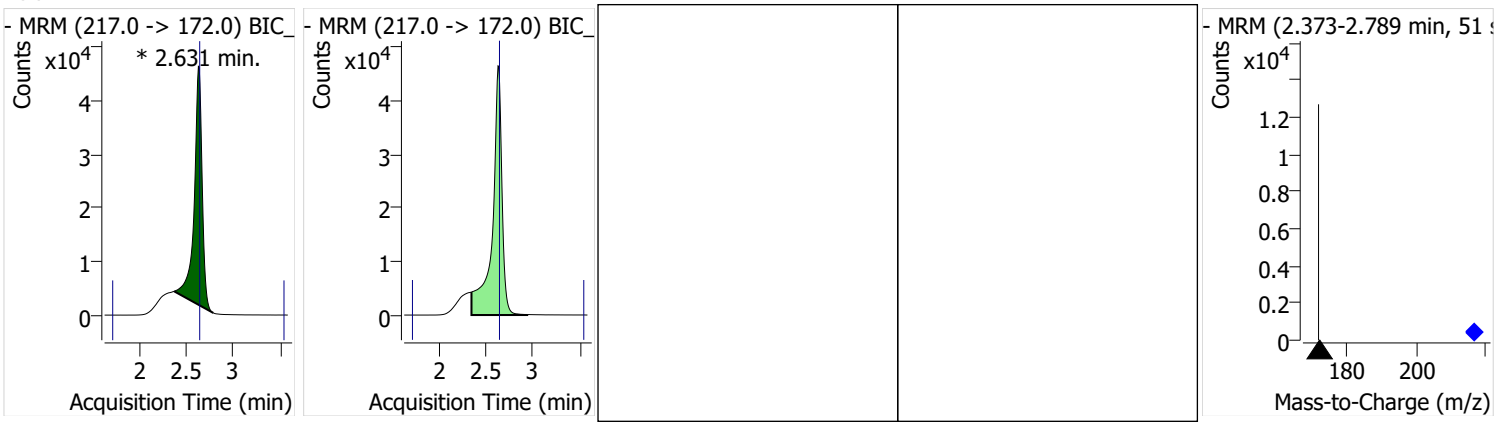
13C2-PFDoA



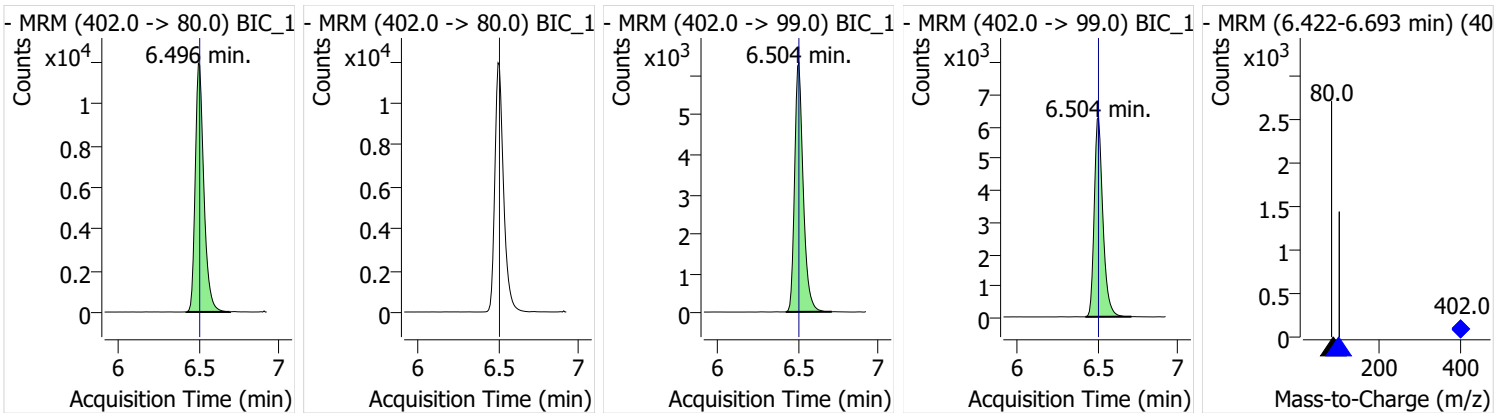
13C4-PFHpA



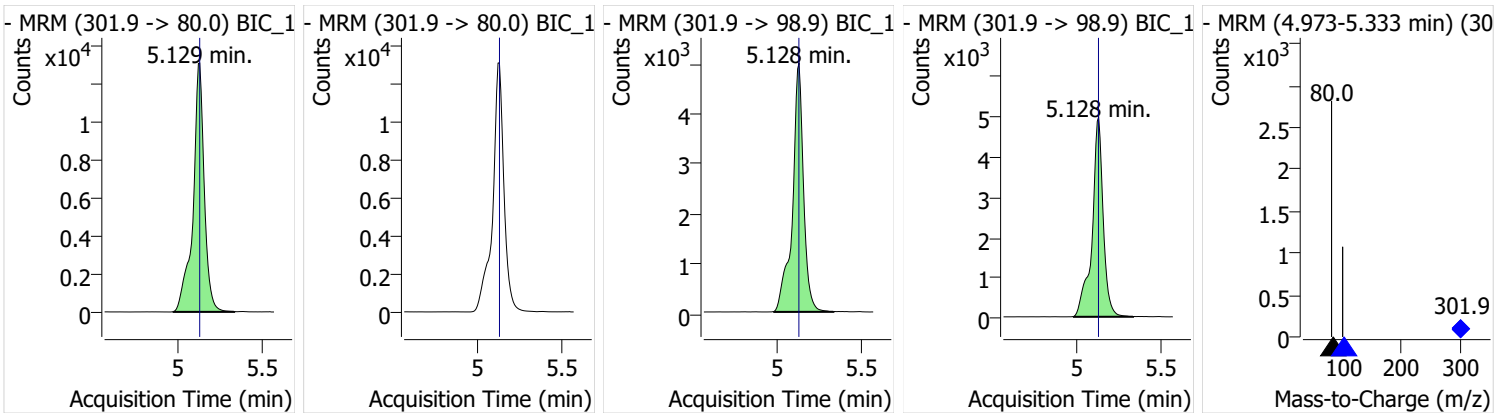
13C4-PFBA



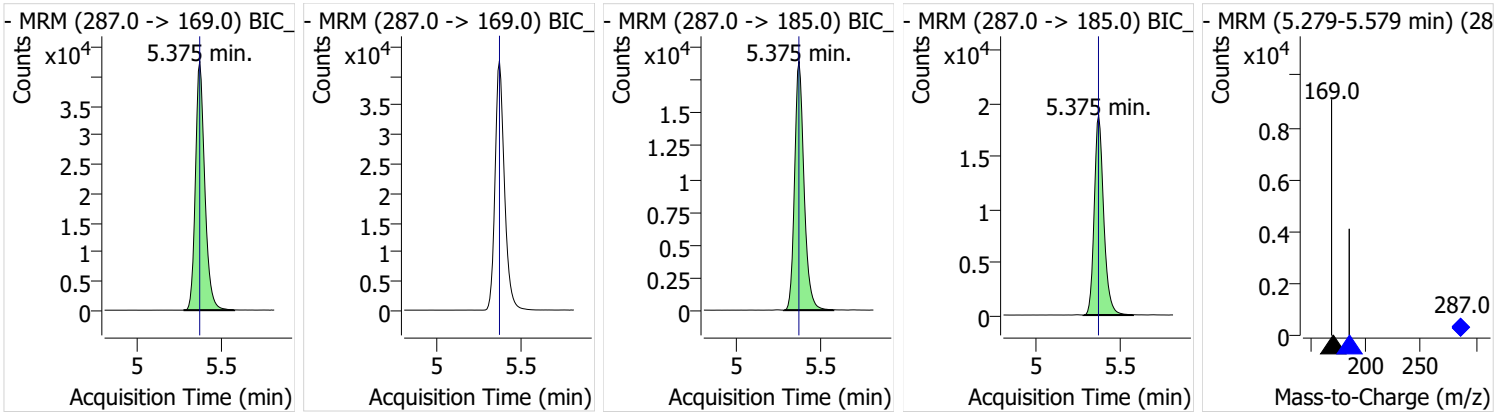
13C3-PFHxS



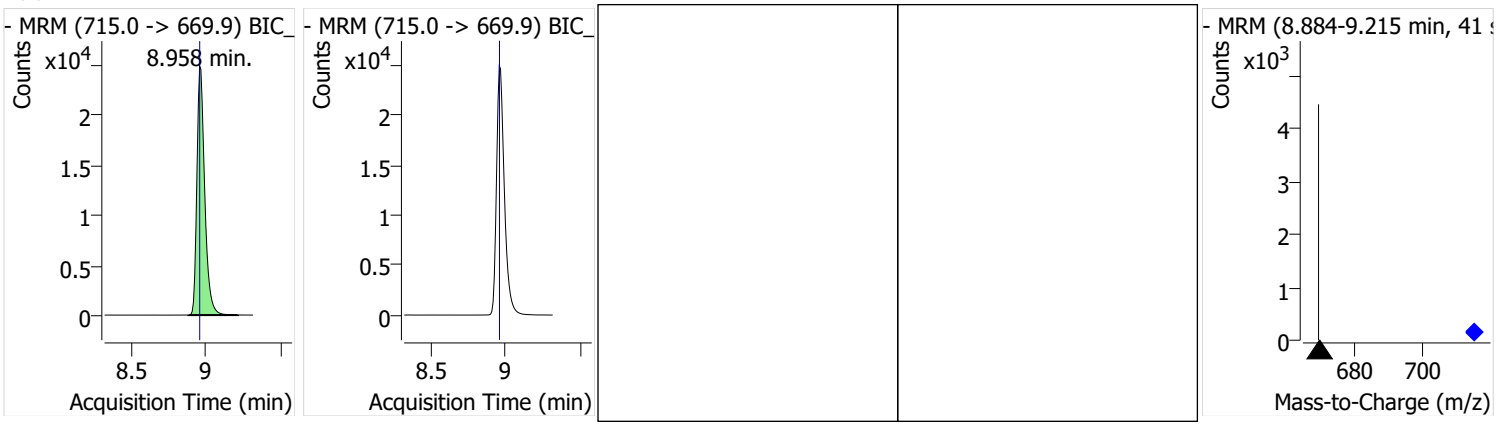
13C3-PFBS



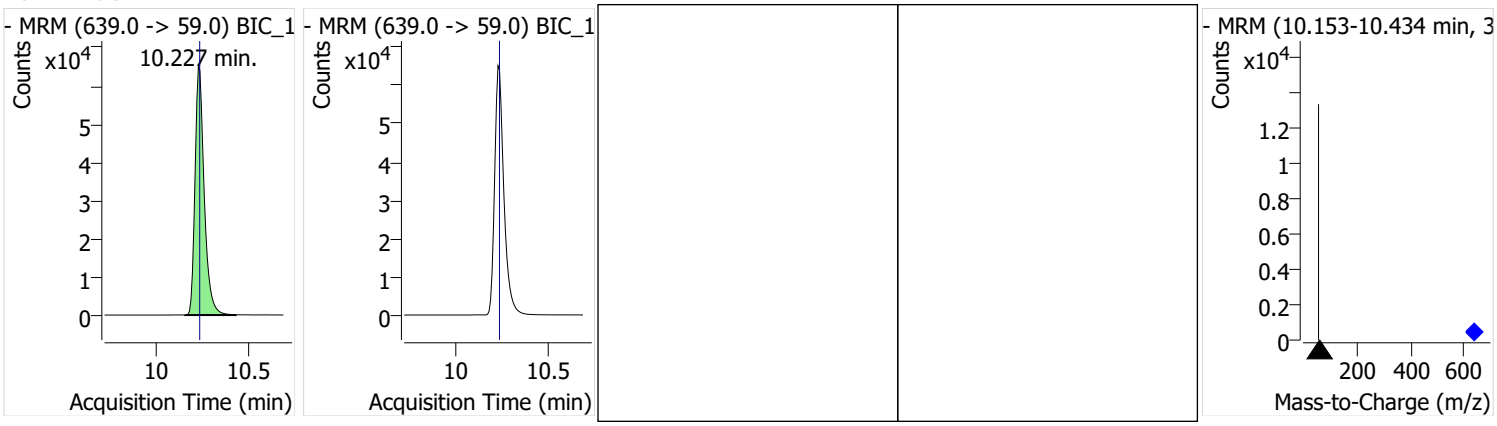
13C3-HFPODA



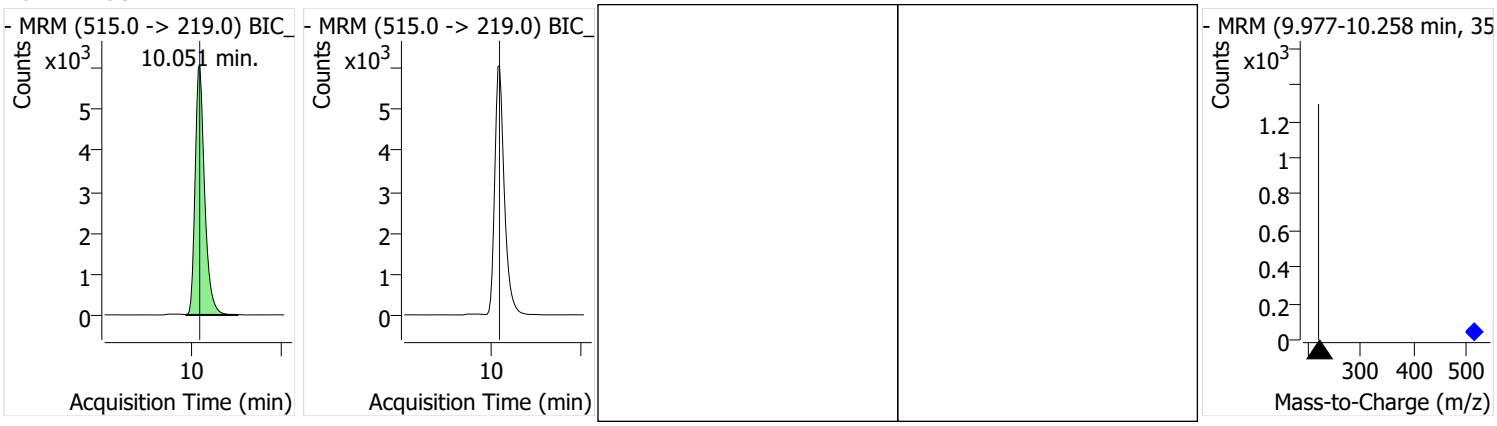
13C2-PFTeDA



D9-NEtFOSE

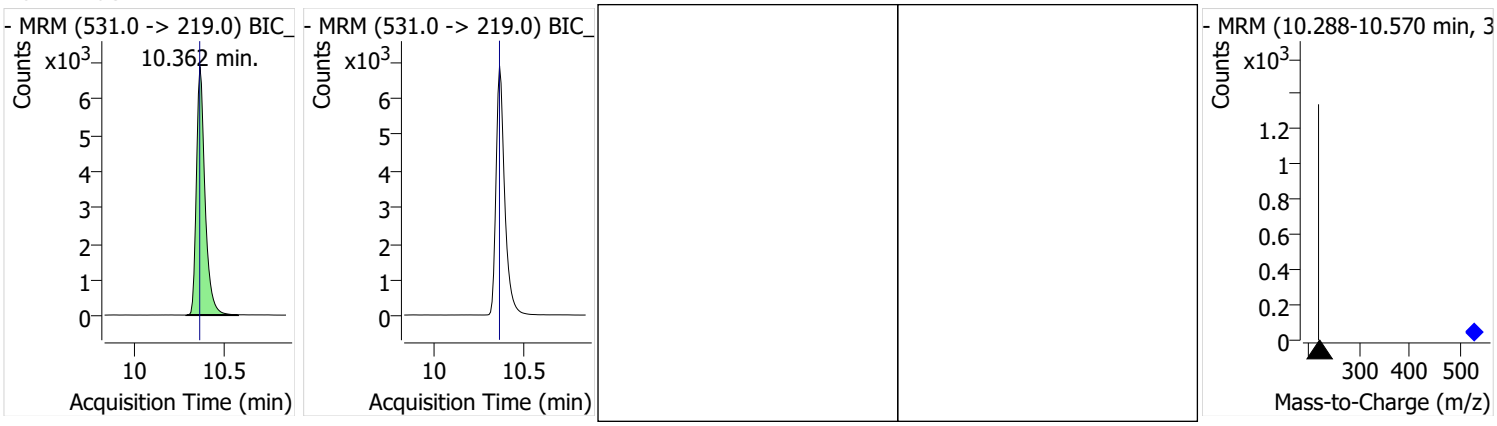


D3-NMeFOSA

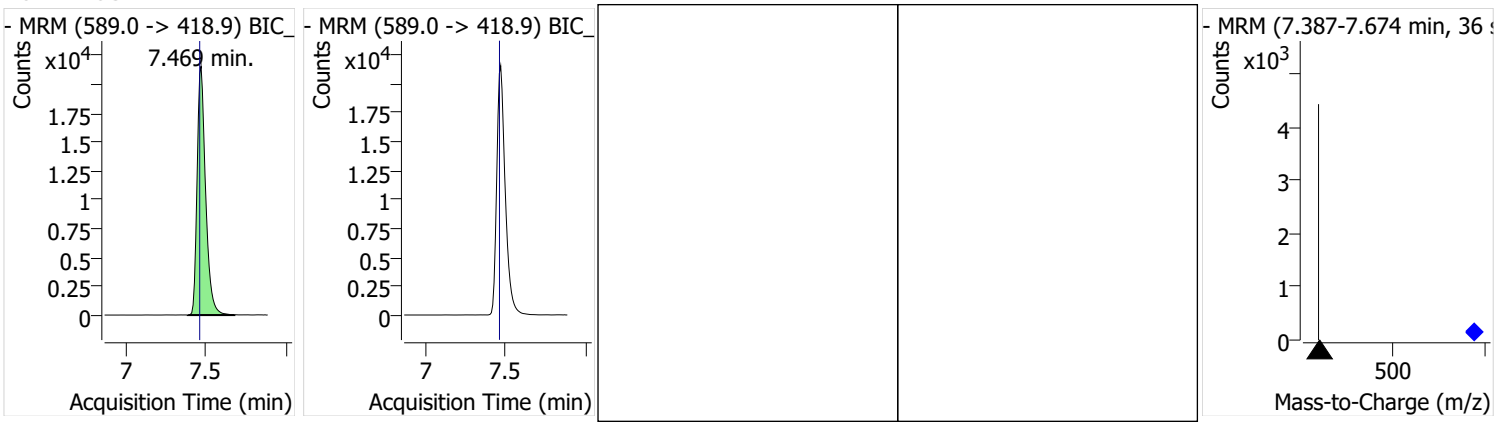


D3-NMeFOSAA

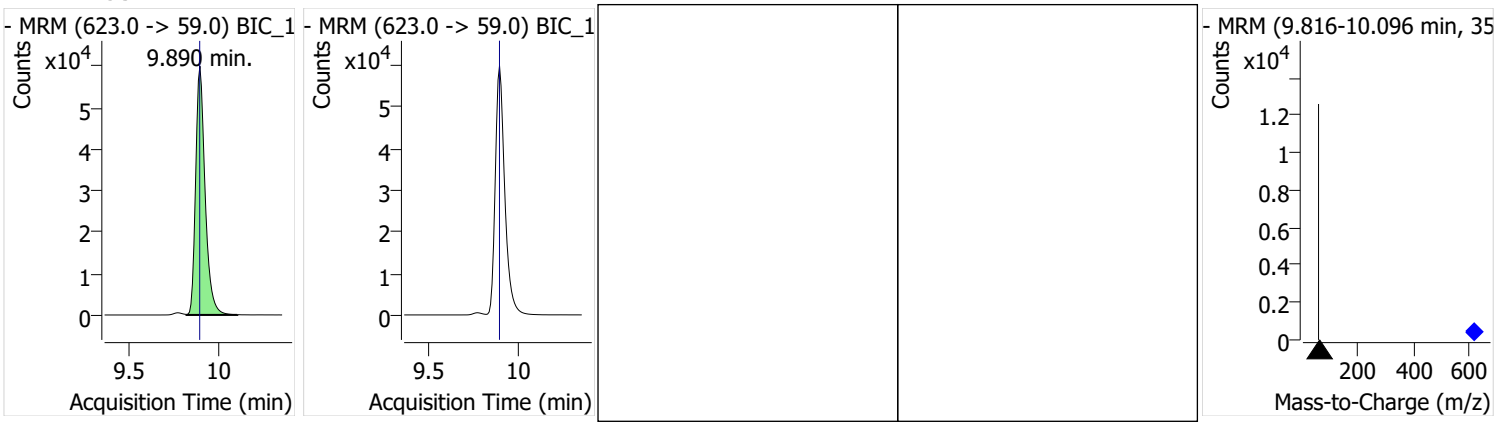
D5-NEtFOSA



D5-NEtFOSAA



D7-NMeFOSE



7 - FORM VII

INITIAL CALIBRATION VERIFICATION

Draft Method 1633

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	QQQ6	Calibration:	2400518
Lab File ID:	ICV_1633_050824.d	Calibration Date:	05/08/24 00:00
Sequence:	S104276	Injection Date:	05/08/24
Lab Sample ID:	S104276-ICV1	Injection Time:	21:09

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Perfluorobutanoic acid (PFBA)	A	10.0	9.58	0.9230632	0.8843716		-4.2	30
Perfluoropentanoic acid (PFPeA)	A	10.0	9.80	1.009825	0.9896162		-2.0	30
Perfluorohexanoic acid (PFHxA)	A	10.0	9.83	1.01642	0.9994531		-1.7	30
Perfluoroheptanoic acid (PFHpA)	A	10.0	9.04	1.042023	0.9420581		-9.6	30
Perfluorooctanoic acid (PFOA)	A	10.0	8.56	1.255142	1.0744		-14.4	30
Perfluorononanoic acid (PFNA)	A	10.0	9.83	1.005098	0.9878856		-1.7	30
Perfluorodecanoic acid (PFDA)	A	10.0	9.74	1.030105	1.002854		-2.6	30
Perfluoroundecanoic acid (PFUnA)	A	10.0	8.64	1.004618	0.867821		-13.6	30
Perfluorododecanoic acid (PFDoA)	A	10.0	8.50	1.036105	0.8801856		-15.0	30
Perfluorotridecanoic acid (PFTrDA)	A	10.0	8.99	0.8826679	0.7931801		-10.1	30
Perfluorotetradecanoic acid (PFTeDA)	A	10.0	10.0	1.005763	1.00851		0.3	30
Perfluorobutanesulfonic acid (PFBS)	A	10.0	9.97	1.246289	1.24448		-0.1	30
Perfluoropentanesulfonic acid (PFPeS)	A	10.0	9.99	1.295728	1.294296		-0.1	30
Perfluorohexanesulfonic acid (PFHxS)	A	10.0	10.1	1.12749	1.138481		1.0	30
Perfluoroheptanesulfonic acid (PFHpS)	A	10.0	9.21	1.319448	1.214275		-8.0	30
Perfluorooctanesulfonic acid (PFOS)	A	10.0	8.33	1.299092	1.081859		-16.7	30
Perfluorononanesulfonic acid (PFNS)	A	10.0	9.64	1.017862	0.9806655		-3.7	30
Perfluorodecanesulfonic acid (PFDS)	A	10.0	9.41	0.8144733	0.7664578		-5.9	30
Perfluorododecanesulfonic acid (PFDoS)	A	10.0	9.52	0.4986549	0.4740888		-4.9	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	A	10.0	9.85	2.915315	2.876058		-1.3	30

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INITIAL CALIBRATION VERIFICATION

Draft Method 1633

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	QQQ6	Calibration:	2400518
Lab File ID:	ICV_1633_050824.d	Calibration Date:	05/08/24 00:00
Sequence:	S104276	Injection Date:	05/08/24
Lab Sample ID:	S104276-ICV1	Injection Time:	21:09

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	A	10.0	9.21	3.387056	3.11817		-7.9	30
1H,1H,2H,2H-Perfluorodecan e sulfonic acid (8:2FTS)	A	10.0	9.73	2.548636	2.484143		-2.5	30
Perfluorooctanesulfonamide (PFOSA)	A	10.0	9.18	1.103835	1.013565		-8.2	30
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	A	10.0	9.91	1.210944	1.199942		-0.9	30
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	A	10.0	9.53	1.298802	1.237346		-4.7	30
N-MeFOSAA (NMeFOSAA)	A	10.0	8.75	0.4240025	0.3708277		-12.5	30
N-EtFOSAA (NEtFOSAA)	A	10.0	9.02	1.21036	1.091356		-9.8	30
N-methylperfluorooctanesulfo namidoethanol(NMeFOSE)	A	10.0	9.45	1.079448	1.01998		-5.5	30
N-ethylperfluorooctanesulfona midoethanol (NEtFOSE)	A	10.0	9.73	1.116928	1.086463		-2.7	30
Hexafluoropropylene oxide dimer acid (HFPO-DA)	A	10.0	9.49	0.9202454	0.8733271		-5.1	30
4,8-Dioxa-3H-perfluorononano ic acid (ADONA)	A	10.0	8.45	7.434924	6.280805		-15.5	30
9Cl-PF3ONS (F53B Minor)	A	10.0	9.39	3.288392	3.100467		-5.7	30
11Cl-PF3OUdS (F53B Major)	A	10.0	9.33	2.952986	2.75221		-6.8	30
3-Perfluoropropyl propanoic acid (FPrPA)(3:3FTCA)	A	10.0	8.81	3.553835E-02	3.129291E-02		-11.9	30
2H,2H,3H,3H-Perfluorooctano ic acid(FPePA)(5:3FTCA)	A	10.0	9.37	9.961691E-02	9.339014E-02		-6.3	30
3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTCA)	A	10.0	8.74	0.117316	0.1025474		-12.6	30
Perfluoro(2-ethoxyethane)sulf onic acid (PFEESA)	A	10.0	9.04	1.259028	1.137732		-9.6	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	A	10.0	9.73	0.1094335	0.1064431		-2.7	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	A	10.0	9.12	0.6884095	0.6276073		-8.8	30
Nonafluoro-3,6-dioxaheptanoi c acid (NFDHA)	A	10.0	10.5	8.451406E-02	8.874876E-02		5.0	30
13C4-PFBA	A	10.0	9.97	1.085569	1.081941		-0.3	30

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INITIAL CALIBRATION VERIFICATION

Draft Method 1633

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	QQQ6	Calibration:	2400518
Lab File ID:	ICV_1633_050824.d	Calibration Date:	05/08/24 00:00
Sequence:	S104276	Injection Date:	05/08/24
Lab Sample ID:	S104276-ICV1	Injection Time:	21:09

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
13C5-PFPeA	A	5.00	5.11	0.9232685	0.9428892		2.1	30
13C5-PFHxA	A	2.50	2.46	1.030198	1.014554		-1.5	30
13C4-PFHpA	A	2.50	2.60	1.152357	1.196331		3.8	30
13C8-PFOA	A	2.50	2.51	6.853857	6.888893		0.5	30
13C9-PFNA	A	1.25	1.27	0.8524299	0.8632232		1.3	30
13C6-PFDA	A	1.25	1.29	0.9862821	1.014599		2.9	30
13C7-PFUnA	A	1.25	1.38	0.7984683	0.8825153		10.5	30
13C2-PFDoA	A	1.25	1.32	0.8241087	0.8701725		5.6	30
13C2-PFTeDA	A	1.25	1.39	0.7095946	0.7897757		11.3	30
13C3-PFBS	A	2.50	2.55	1.35117	1.376449		1.9	30
13C3-PFHxS	A	2.50	2.45	1.020951	1.0012		-1.9	30
13C8-PFOS	A	2.50	2.61	0.8987725	0.9371816		4.3	30
13C2-4:2FTS	A	5.00	5.69	0.2991766	0.3404452		13.8	30
13C2-6:2FTS	A	5.00	5.76	0.2021627	0.233027		15.3	30
13C2-8:2FTS	A	5.00	6.03	0.1643288	0.198052		20.5	30
13C8-PFOSA	A	2.50	2.57	1.580736	1.622528		2.6	30
D3-NMeFOSA	A	2.50	2.62	0.5070093	0.531796		4.9	30
D5-NEtFOSA	A	2.50	2.74	0.5288652	0.5788033		9.4	30
D3-NMeFOSAA	A	5.00	5.48	1.619524	1.773531		9.5	30
D5-NEtFOSAA	A	5.00	5.52	0.819503	0.9049986		10.4	30
D7-NMeFOSE	A	25.0	28.0	0.6143202	0.6884877		12.1	30
D9-NEtFOSE	A	25.0	29.8	0.6573456	0.7840505		19.3	30
13C3-HFPO-DA	A	10.0	10.8	0.2881606	0.3113276		8.0	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

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INITIAL CALIBRATION VERIFICATION

Draft Method 1633

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	QQQ5	Calibration:	2400593
Lab File ID:	ICV_1633_052824.d	Calibration Date:	05/28/24 00:00
Sequence:	S105100	Injection Date:	05/28/24
Lab Sample ID:	S105100-ICV1	Injection Time:	12:50

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Perfluorobutanoic acid (PFBA)	A	10.0	9.30	0.9055443	0.8425287		-7.0	30
Perfluoropentanoic acid (PFPeA)	A	10.0	9.57	0.985154	0.9430192		-4.3	30
Perfluorohexanoic acid (PFHxA)	A	10.0	9.39	0.9796289	0.9197765		-6.1	30
Perfluoroheptanoic acid (PFHpA)	A	10.0	8.69	1.035117	0.9000309		-13.1	30
Perfluorooctanoic acid (PFOA)	A	10.0	8.26	1.147963	0.948152		-17.4	30
Perfluorononanoic acid (PFNA)	A	10.0	9.73	0.9847549	0.9580933		-2.7	30
Perfluorodecanoic acid (PFDA)	A	10.0	9.92	0.9791746	0.9710634		-0.8	30
Perfluoroundecanoic acid (PFUnA)	A	10.0	8.55	0.96917	0.8282565		-14.5	30
Perfluorododecanoic acid (PFDoA)	A	10.0	8.21	1.003722	0.8238727		-17.9	30
Perfluorotridecanoic acid (PFTrDA)	A	10.0	8.13	1.039237	0.8451848		-18.7	30
Perfluorotetradecanoic acid (PFTeDA)	A	10.0	9.78	0.9678259	0.9464324		-2.2	30
Perfluorobutanesulfonic acid (PFBS)	A	10.0	9.86	1.179363	1.164028		-1.3	30
Perfluoropentanesulfonic acid (PFPeS)	A	10.0	9.76	1.354494	1.321229		-2.5	30
Perfluorohexanesulfonic acid (PFHxS)	A	10.0	9.60	1.191169	1.14446		-3.9	30
Perfluoroheptanesulfonic acid (PFHpS)	A	10.0	9.20	1.20285	1.104847		-8.1	30
Perfluorooctanesulfonic acid (PFOS)	A	10.0	8.37	1.211825	1.014106		-16.3	30
Perfluorononanesulfonic acid (PFNS)	A	10.0	9.40	1.076868	1.012534		-6.0	30
Perfluorodecanesulfonic acid (PFDS)	A	10.0	9.02	0.8744912	0.7886701		-9.8	30
Perfluorododecanesulfonic acid (PFDoS)	A	10.0	8.91	0.6106218	0.5434977		-11.0	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	A	10.0	9.59	3.142915	3.016321		-4.0	30

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INITIAL CALIBRATION VERIFICATION

Draft Method 1633

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	QQQ5	Calibration:	2400593
Lab File ID:	ICV_1633_052824.d	Calibration Date:	05/28/24 00:00
Sequence:	S105100	Injection Date:	05/28/24
Lab Sample ID:	S105100-ICV1	Injection Time:	12:50

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	A	10.0	9.37	2.842618	2.663149		-6.3	30
1H,1H,2H,2H-Perfluorodecan e sulfonic acid (8:2FTS)	A	10.0	9.21	1.79241	1.654171		-7.7	30
Perfluorooctanesulfonamide (PFOSA)	A	10.0	8.77	1.076938	0.9447024		-12.3	30
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	A	10.0	9.46	1.173375	1.109978		-5.4	30
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	A	10.0	9.74	1.323332	1.28833		-2.6	30
N-MeFOSAA (NMeFOSAA)	A	10.0	8.65	0.3646716	0.3154562		-13.5	30
N-EtFOSAA (NEtFOSAA)	A	10.0	8.86	1.057171	0.9366707		-11.4	30
N-methylperfluorooctanesulfo namidoethanol(NMeFOSE)	A	10.0	9.21	1.119899	1.031421		-7.9	30
N-ethylperfluorooctanesulfona midoethanol (NEtFOSE)	A	10.0	9.44	1.148085	1.083972		-5.6	30
Hexafluoropropylene oxide dimer acid (HFPO-DA)	A	10.0	9.99	0.8537594	0.8532386		-0.06	30
4,8-Dioxa-3H-perfluorononano ic acid (ADONA)	A	10.0	8.78	7.516548	6.594132		-12.3	30
9Cl-PF3ONS (F53B Minor)	A	10.0	9.21	5.656091	5.228635		-7.6	30
11Cl-PF3OUdS (F53B Major)	A	10.0	9.33	3.784009	3.526722		-6.8	30
3-Perfluoropropyl propanoic acid (FPrPA)(3:3FTCA)	A	10.0	9.44	4.394286E-02	4.149751E-02		-5.6	30
2H,2H,3H,3H-Perfluorooctano ic acid(FPePA)(5:3FTCA)	A	10.0	9.21	0.1283846	0.1182027		-7.9	30
3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTCA)	A	10.0	8.45	0.1607822	0.1359222		-15.5	30
Perfluoro(2-ethoxyethane)sulf onic acid (PFEESA)	A	10.0	8.67	1.467067	1.271602		-13.3	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	A	10.0	9.81	6.968996E-02	6.838895E-02		-1.9	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	A	10.0	9.09	0.6583079	0.5986471		-9.1	30
Nonafluoro-3,6-dioxaheptanoi c acid (NFDHA)	A	10.0	9.26	7.003551E-02	6.487651E-02		-7.4	30
13C4-PFBA	A	10.0	11.0	1.092274	1.199641		9.8	30

7 - FORM VII

INITIAL CALIBRATION VERIFICATION

Draft Method 1633

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	QQQ5	Calibration:	2400593
Lab File ID:	ICV_1633_052824.d	Calibration Date:	05/28/24 00:00
Sequence:	S105100	Injection Date:	05/28/24
Lab Sample ID:	S105100-ICV1	Injection Time:	12:50

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
13C5-PFPeA	A	5.00	5.41	0.7854588	0.8503015		8.3	30
13C5-PFHxA	A	2.50	2.80	1.059253	1.186724		12.0	30
13C4-PFHpA	A	2.50	2.76	1.381858	1.525873		10.4	30
13C8-PFOA	A	2.50	2.59	8.180126	8.478755		3.7	30
13C9-PFNA	A	1.25	1.39	0.7691169	0.8547123		11.1	30
13C6-PFDA	A	1.25	1.34	0.9953557	1.06791		7.3	30
13C7-PFUnA	A	1.25	1.42	0.9305727	1.053846		13.2	30
13C2-PFDoA	A	1.25	1.40	0.9604648	1.072269		11.6	30
13C2-PFTeDA	A	1.25	1.34	1.295151	1.387952		7.2	30
13C3-PFBS	A	2.50	2.67	1.484657	1.584225		6.7	30
13C3-PFHxS	A	2.50	2.73	1.025978	1.120797		9.2	30
13C8-PFOS	A	2.50	2.81	0.9272679	1.042676		12.4	30
13C2-4:2FTS	A	5.00	5.41	1.272731	1.37609		8.1	30
13C2-6:2FTS	A	5.00	5.39	1.131247	1.218949		7.8	30
13C2-8:2FTS	A	5.00	4.95	0.6827405	0.675466		-1.1	30
13C8-PFOSA	A	2.50	2.91	1.675551	1.947137		16.2	30
D3-NMeFOSA	A	2.50	2.76	0.547367	0.6033532		10.2	30
D5-NEtFOSA	A	2.50	2.70	0.5572248	0.6012022		7.9	30
D3-NMeFOSAA	A	5.00	5.78	1.857945	2.147343		15.6	30
D5-NEtFOSAA	A	5.00	5.61	0.9301541	1.0445		12.3	30
D7-NMeFOSE	A	25.0	28.5	0.50654	0.5772905		14.0	30
D9-NEtFOSE	A	25.0	28.4	0.5420359	0.616282		13.7	30
13C3-HFPO-DA	A	10.0	11.1	0.3037858	0.3374521		11.1	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

1 - FORM I
ANALYSIS DATA SHEET

Calibration Blank

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	S104823-CCB1	File ID:	CCB1_1633_051724.d
Sampled:		Prepared:	05/17/24 00:00	Analyzed:	05/17/24 09:32
Solids:		Preparation:	B374213	Dilution:	
Batch:	S104823	Sequence:	S104823	Calibration:	2400518
Instrument:	QQQ6				
Column:	1				

CAS NO.	COMPOUND	CONC. (ng/mL)	MDL	RL	Q
375-22-4	Perfluorobutanoic acid (PFBA)	0.0	0.32	0.80	
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.0	0.046	0.40	
307-24-4	Perfluorohexanoic acid (PFHxA)	0.0	0.033	0.20	
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.0	0.015	0.20	
335-67-1	Perfluorooctanoic acid (PFOA)	0.0	0.031	0.20	
375-95-1	Perfluorononanoic acid (PFNA)	0.0	0.014	0.20	
335-76-2	Perfluorodecanoic acid (PFDA)	0.0	0.018	0.20	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.0	0.023	0.20	
307-55-1	Perfluorododecanoic acid (PFDoA)	0.0	0.022	0.20	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.0	0.022	0.20	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.0	0.020	0.20	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.0	0.021	0.20	
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.0	0.026	0.20	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.0	0.079	0.20	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.0	0.021	0.20	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.0	0.032	0.20	
68259-12-1	Perfluorononanesulfonic acid (PFNS)	0.0	0.022	0.20	
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.0	0.032	0.20	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	0.0	0.031	0.20	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (	0.0	0.070	0.80	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid ((	0.0	0.50	0.80	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (	0.0	0.093	0.80	
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.0	0.031	0.20	
31506-32-8	N-methyl perfluoroocatnesulfonamide (NMeF	0.0	0.025	0.20	
4151-50-2	N-ethyl perfluorooctanesulfonamide (NEtFOS	0.0	0.023	0.20	
2355-31-9	N-MeFOSAA (NMeFOSAA)	0.0	0.036	0.20	
2991-50-6	N-EtFOSAA (NEtFOSAA)	0.0	0.030	0.20	
24448-09-7	N-methylperfluorooctanesulfonamidoethanol(	0.0	0.22	2.0	
1691-99-2	N-ethylperfluorooctanesulfonamidoethanol (N	0.0	0.22	2.0	
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPC	0.0	0.051	0.80	

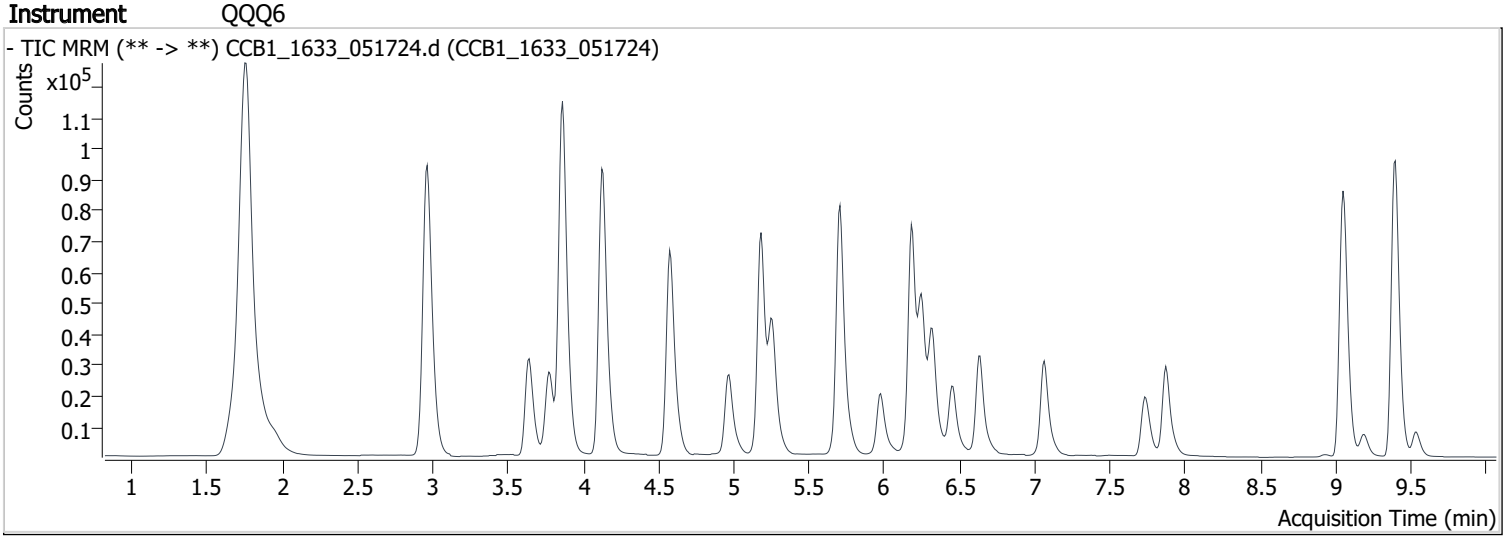
1 - FORM I
ANALYSIS DATA SHEET

Calibration Blank

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	S104823-CCB1	File ID:	CCB1_1633_051724.d
Sampled:		Prepared:	05/17/24 00:00	Analyzed:	05/17/24 09:32
Solids:		Preparation:	B374213	Dilution:	
Batch:	S104823	Sequence:	S104823	Calibration:	2400518
Instrument:	QQQ6				
Column:	1				

CAS NO.	COMPOUND	CONC. (ng/mL)	MDL	RL	Q
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADON/	0.0	0.060	0.80	
756426-58-1	9Cl-PF3ONS (F53B Minor)	0.0	0.058	0.80	
763051-92-9	11Cl-PF3OUdS (F53B Major)	0.0	0.089	0.80	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)(3:3	0.0	0.19	2.0	
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)	0.0	1.3	10	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)(7:3	0.0	1.5	10	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEE	0.0	0.032	0.40	
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.0	0.033	0.40	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	0.0	0.033	0.40	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.0	0.060	0.40	

Batch Path	R:\Data\MAY2024\051724\QuantResults\1633_CCVS_CORRECTED.batch.bin		
Analysis Time	5/20/2024 3:06 PM	**Last Calib Update**	5/9/2024 9:16 AM
Acq. Time	5/17/2024 9:32 AM	**Data File**	CCB1_1633_051724.d
Sample Type	Sample	**Sample Name**	CCB1_1633_051724
Dilution	1	**Acq. Method**	1633_ACQUISITION_01.m
Sample Comment	E#24E0356	**Processing method**	1633_050824.m
Instrument	QQQ6		



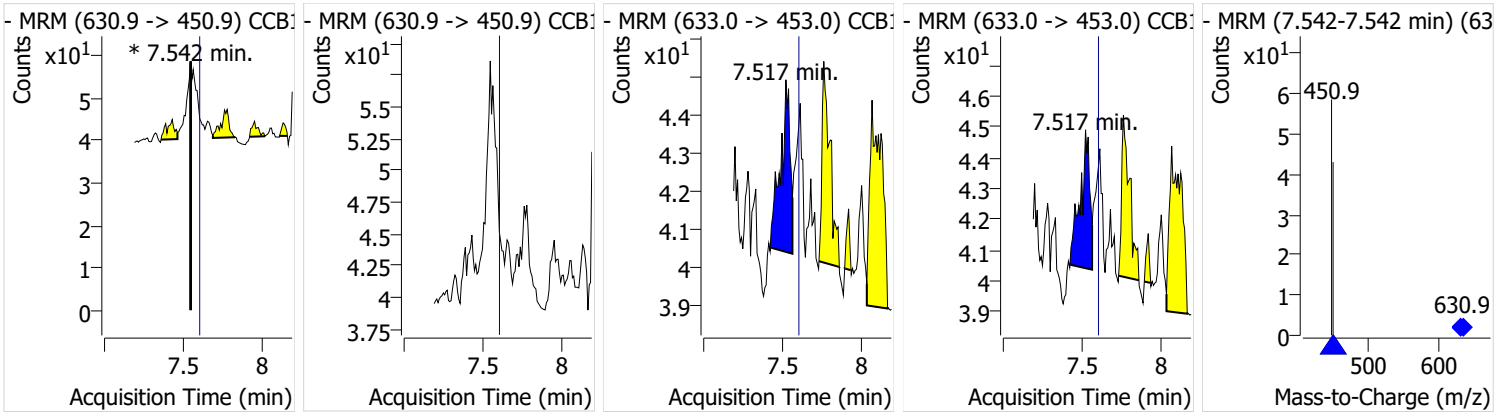
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
11Cl-PF3OUdS	7.542	0			13C3-HFPODA - ISTD	4.128	251528	-	ng/ml	✔	1	ALB 5/20/24
633.0 -> 453.0				*								
3:3FTCA	2.541	0			13C5-PFPeA - ISTD	2.961	411270	-	ng/ml	✔	1	ALB 5/20/24
241.0 -> 117.0				*								
4:2FTS	3.639	0			13C2-4:2FTS - ISTD	3.638	33920	-	ng/ml	✔	1	ALB 5/20/24
327.0 -> 80.9				*								
5:3FTCA	4.377	0			13C5-PFHxA - ISTD	3.861	227902	-	ng/ml	✔	1	ALB 5/20/24
341.0 -> 217.0				*								
6:2FTS	4.983	0			13C2-6:2FTS - ISTD	4.966	23269	-	ng/ml	✔	1	ALB 5/20/24
427.0 -> 80.9				*								
7:3FTCA	5.683	0			13C5-PFHxA - ISTD	3.861	227902	-	ng/ml	✔	1	ALB 5/20/24
441.0 -> 317.0				*								
8:2FTS	6.000	0			13C2-8:2FTS - ISTD	5.975	21527	-	ng/ml	✔	1	ALB 5/20/24
527.0 -> 81.0				*								
9Cl-PF3ONS	6.696	0			13C3-HFPODA - ISTD	4.128	251528	-	ng/ml	✔	1	ALB 5/20/24
533.0 -> 353.0				*								
ADONA	4.764	0			13C3-HFPODA - ISTD	4.128	251528	-	ng/ml	✔	1	ALB 5/20/24
377.0 -> 85.1				*								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA	4.129	0			13C3-HFPODA - ISTD	4.128	251528	-	ng/ml	✔	1	ALB 5/20/24
285.0 -> 184.9				*								
NEtFOSA	9.556	0			D5-NEtFOSA - ISTD	9.538	27949	-	ng/ml	✔	1	ALB 5/20/24
526.0 -> 219.0				*								
NEtFOSAA	6.447	0			D5-NEtFOSAA - ISTD	6.447	88034	-	ng/ml	✔	1	ALB 5/20/24
584.0 -> 526.0				*								
NEtFOSE	9.412	0			D9-NEtFOSE - ISTD	9.394	365225	-	ng/ml	✔	1	ALB 5/20/24
NFDHA	3.742	0			13C5-PFHxA - ISTD	3.861	227902	-	ng/ml	✔	1	ALB 5/20/24
295.0 -> 85.0				*								
NMeFOSA	9.228	0			D3-NMeFOSA - ISTD	9.193	26302	-	ng/ml	✔	1	ALB 5/20/24
512.0 -> 219.0				*								
NMeFOSAA	6.261	0			D3-NMeFOSAA - ISTD	6.244	160840	-	ng/ml	✔	1	ALB 5/20/24
570.0 -> 418.9				*								
NMeFOSE	9.082	0			D7-NMeFOSE - ISTD	9.049	333234	-	ng/ml	✔	1	ALB 5/20/24
PFBA	1.762	0			13C4-PFBA - ISTD	1.757	660198	-	ng/ml	✔	1	ALB 5/20/24
PFBS	3.774	0			13C3-PFBS - ISTD	3.774	81081	-	ng/ml	✔	1	ALB 5/20/24
298.9 -> 98.8				*								
PFDA	6.181	0			13C6-PFDA - ISTD	6.181	147870	-	ng/ml	✔	1	ALB 5/20/24
513.0 -> 219.0				*								
PFDoA	7.061	0			13C2-PFDoA - ISTD	7.061	124223	-	ng/ml	✔	1	ALB 5/20/24
613.0 -> 319.0				*								
PFDoS	8.070	0			13C8-PFOS - ISTD	6.322	44672	-	ng/ml	✔	1	ALB 5/20/24
698.9 -> 99.0				*								
PFDS	7.264	0			13C8-PFOS - ISTD	6.322	44672	-	ng/ml	✔	1	ALB 5/20/24
599.0 -> 98.8				*								
PFEESA	4.197	0			13C5-PFHxA - ISTD	3.861	227902	-	ng/ml	✔	1	ALB 5/20/24
315.0 -> 83.0				*								
PFHpA	4.574	0			13C4-PFHpA - ISTD	4.574	265812	-	ng/ml	✔	1	ALB 5/20/24
362.9 -> 169.0				*								
PFHpS	5.774	0			13C8-PFOS - ISTD	6.322	44672	-	ng/ml	✔	1	ALB 5/20/24
449.0 -> 98.8				*								

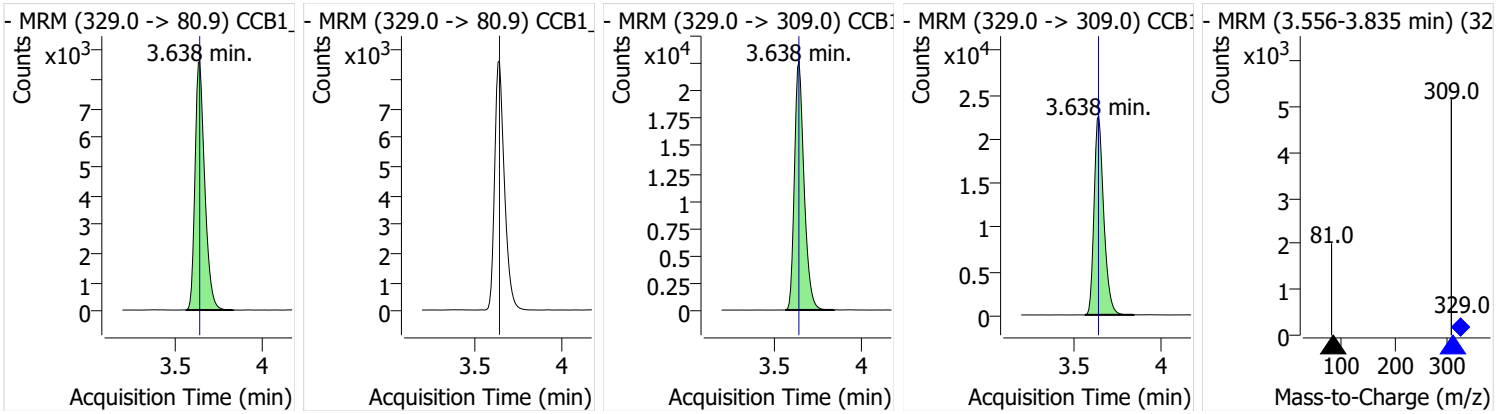
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFHxA	3.863	0			13C5-PFHxA - ISTD	3.861	227902	-	ng/ml	✔	1	ALB 5/20/24
313.0 -> 118.9				*								
PFHxS	5.251	0			13C3-PFHxS - ISTD	5.259	58756	-	ng/ml	✔	1	ALB 5/20/24
398.9 -> 99.0				*								
PFMBA	3.304	0			13C5-PFPeA - ISTD	2.961	411270	-	ng/ml	✔	1	ALB 5/20/24
PFMPA	2.317	0			13C5-PFPeA - ISTD	2.961	411270	-	ng/ml	✔	1	ALB 5/20/24
PFNA	5.697	0			13C9-PFNA - ISTD	5.705	152496	-	ng/ml	✔	1	ALB 5/20/24
463.0 -> 219.0				*								
PFNS	6.819	0			13C8-PFOS - ISTD	6.322	44672	-	ng/ml	✔	1	ALB 5/20/24
549.0 -> 98.8				*								
PFOA	5.182	0			13C8-PFOA - ISTD	5.181	251677	-	ng/ml	✔		
413.0 -> 169.0				*								
PFOS	6.331	0			13C8-PFOS - ISTD	6.322	44672	-	ng/ml	✔	1	ALB 5/20/24
499.0 -> 99.0				*								
PFOSA	7.753	0			13C8-PFOSA - ISTD	7.735	78485	-	ng/ml	✔	1	ALB 5/20/24
497.9 -> 478.0				*								
PFPeA	2.962	0			13C5-PFPeA - ISTD	2.961	411270	-	ng/ml	✔	1	ALB 5/20/24
263.0 -> 69.0				*								
PFPeS	4.592	0			13C3-PFHxS - ISTD	5.259	58756	-	ng/ml	✔	1	ALB 5/20/24
349.0 -> 98.9				*								
PFTeDA	7.869	0			13C2-PFTeDA - ISTD	7.869	114757	-	ng/ml	✔	1	ALB 5/20/24
713.0 -> 168.9				*								
PFTrDA	7.473	0			13C2-PFDoA - ISTD	7.061	124223	-	ng/ml	✔	1	ALB 5/20/24
663.0 -> 168.9				*								
PFUnA	6.637	0			13C7-PFUnA - ISTD	6.627	126340	-	ng/ml	✔	1	ALB 5/20/24
563.0 -> 269.1				*								
TDCA	6.192	59	11.81					-	ng/ml			
499.0 -> 99.0			17.69	**109.6								
13C2-8:2FTS	5.975	21527	4770.92		18O2-PFHxS	5.258	55371	5.9145	ng/ml			
529.0 -> 509.0			9588.85	271.7								
13C2-4:2FTS	3.638	33920	4894.02		18O2-PFHxS	5.258	55371	5.1190	ng/ml			
329.0 -> 309.0			9591.79	260.6								
13C2-6:2FTS	4.966	23269	11293.29		18O2-PFHxS	5.258	55371	5.1968	ng/ml			

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
429.0 -> 409.0			15840.84	346.4								
13C5-PFHxA	3.861	227902	29399.59		13C2-PFHxA	3.861	210612	2.6259	ng/ml			
318.0 -> 120.0			796.62	1.9								
13C6-PFDA	6.181	147870	24546.59		13C2-PFDA	6.181	139439	1.3440	ng/ml			
13C7-PFUnA	6.627	126340	7275.22		13C2-PFDA	6.181	139439	1.4184	ng/ml			
13C8-PFOA	5.181	251677	36598.90		13C4-PFOA	5.181	34330	2.6741	ng/ml			
13C8-PFOS	6.322	44672	9035.20		13C4-PFOS	6.322	47068	2.6399	ng/ml			
507.0 -> 99.0			123782.48	52.1								
13C8-PFOSA	7.735	78485	46270.74		13C4-PFOS	6.322	47068	2.6372	ng/ml			
13C9-PFNA	5.705	152496	20835.57		13C5-PFNA	5.705	171341	1.3051	ng/ml			
13C5-PFPeA	2.961	411270	13556.12		13C2-PFHxA	3.861	210612	5.2876	ng/ml			
13C2-PFDoA	7.061	124223	23687.50		13C2-PFDA	6.181	139439	1.3513	ng/ml			
13C4-PFHpA	4.574	265812	25337.60		13C2-PFHxA	3.861	210612	2.7381	ng/ml			
13C4-PFBA	1.757	660198	109456.68		13C3-PFBA	1.751	295807	10.2797	ng/ml			
13C3-PFHxS	5.259	58756	9365.85		18O2-PFHxS	5.258	55371	2.5984	ng/ml			
402.0 -> 99.0			24353.09	49.5								
13C3-PFBS	3.774	81081	18661.42		18O2-PFHxS	5.258	55371	2.7094	ng/ml			
301.9 -> 98.9			17386.20	35.2								
13C3-HFPODA	4.128	251528	23910.58		13C2-PFHxA	3.861	210612	10.3612	ng/ml			
287.0 -> 185.0			13740.61	45.6								
13C2-PFTeDA	7.869	114757	62188.86		13C2-PFDA	6.181	139439	1.4498	ng/ml			
D9-NEtFOSE	9.394	365225	165495.84		13C4-PFOS	6.322	47068	29.5107	ng/ml			
D3-NMeFOSA	9.193	26302	11117.02		13C4-PFOS	6.322	47068	2.7554	ng/ml			
D3-NMeFOSAA	6.244	160840	32189.56		13C4-PFOS	6.322	47068	5.2750	ng/ml			
D5-NEtFOSA	9.538	27949	14289.67		13C4-PFOS	6.322	47068	2.8069	ng/ml			
D5-NEtFOSAA	6.447	88034	18482.06		13C4-PFOS	6.322	47068	5.7057	ng/ml			
D7-NMeFOSE	9.049	333234	124741.58		13C4-PFOS	6.322	47068	28.8116	ng/ml			

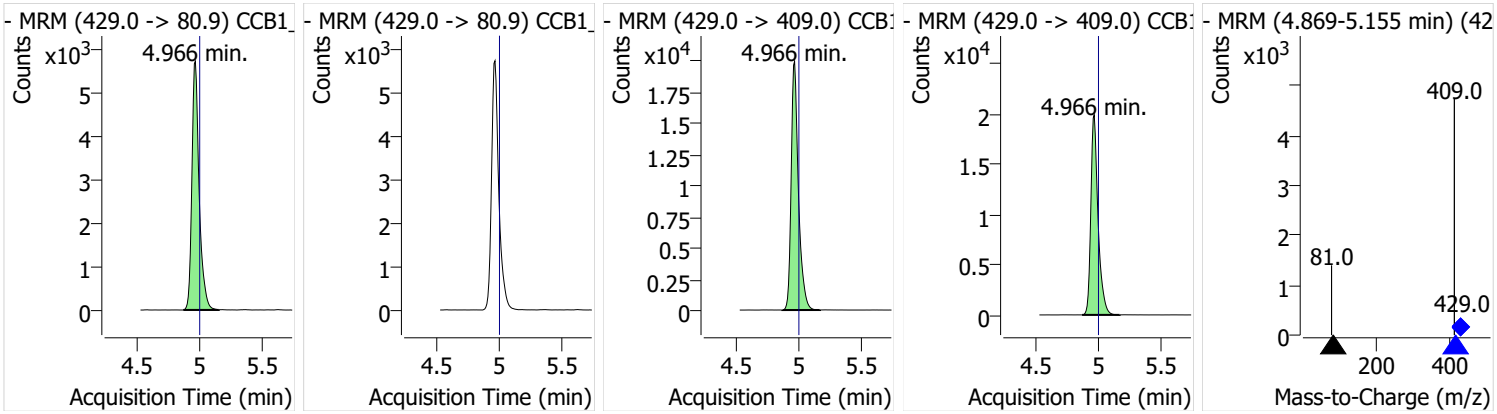
11Cl-PF3OUdS



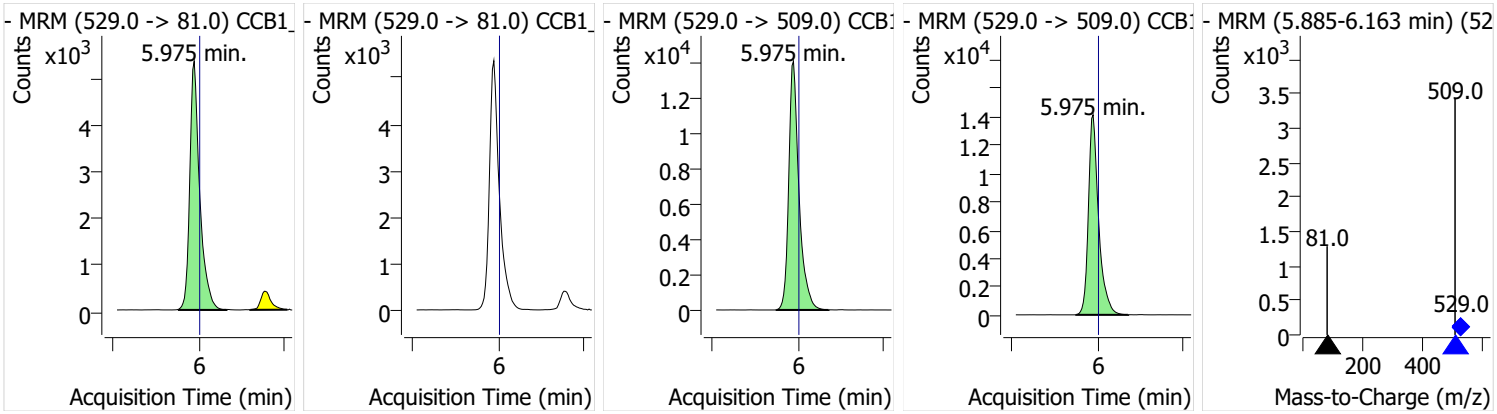
13C2-4:2FTS - ISTD



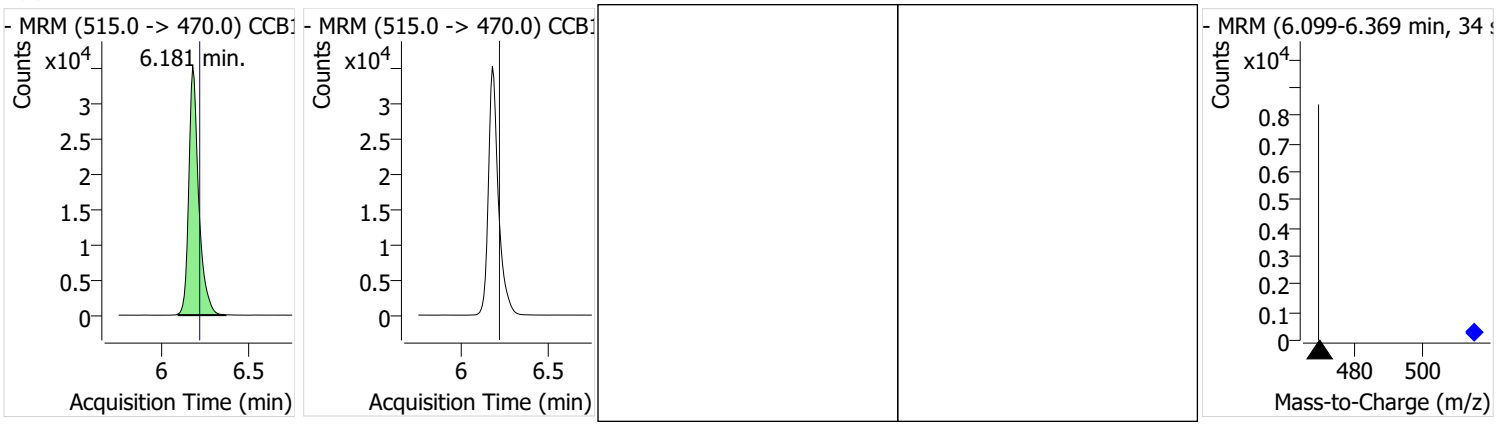
13C2-6:2FTS - ISTD



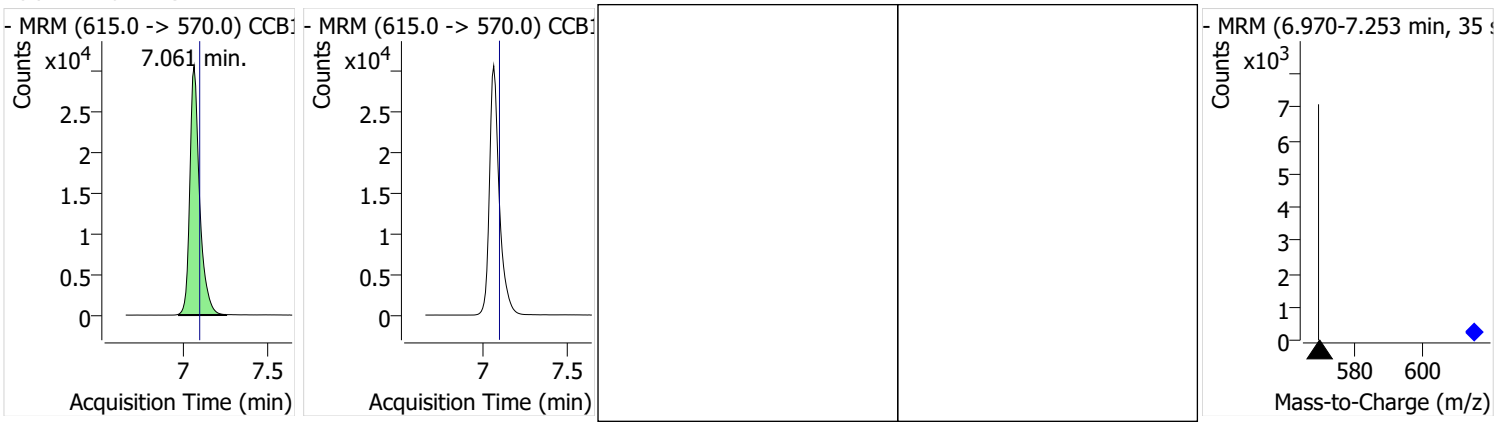
13C2-8:2FTS - ISTD



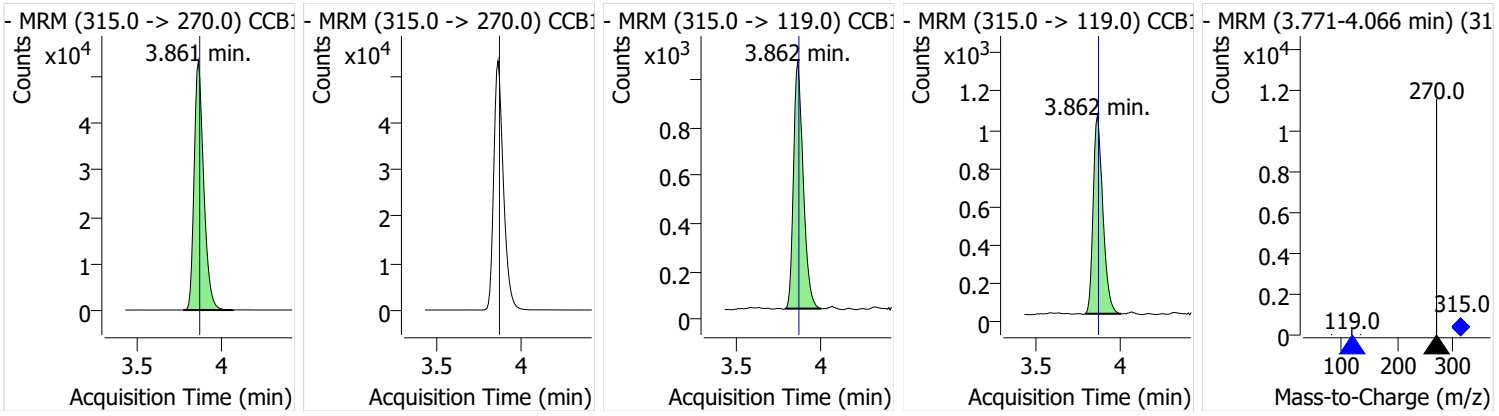
13C2-PFDA



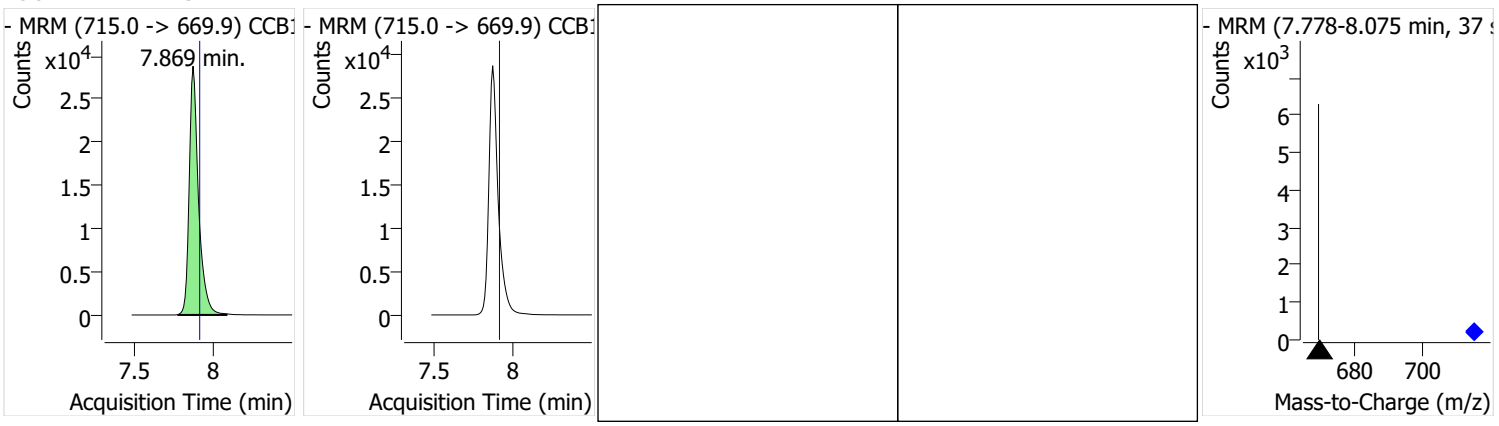
13C2-PFDoA - ISTD



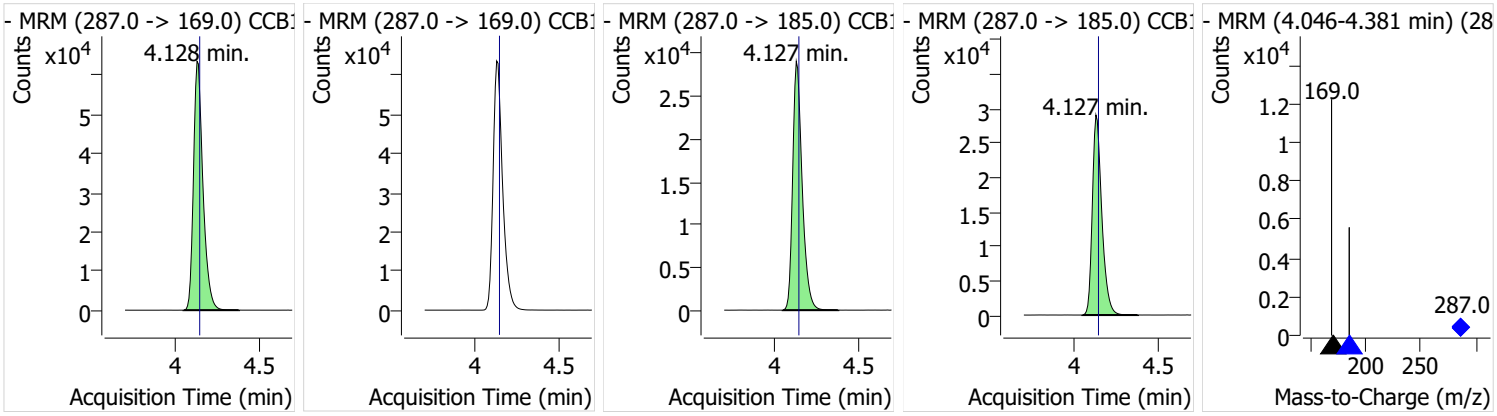
13C2-PFHxA



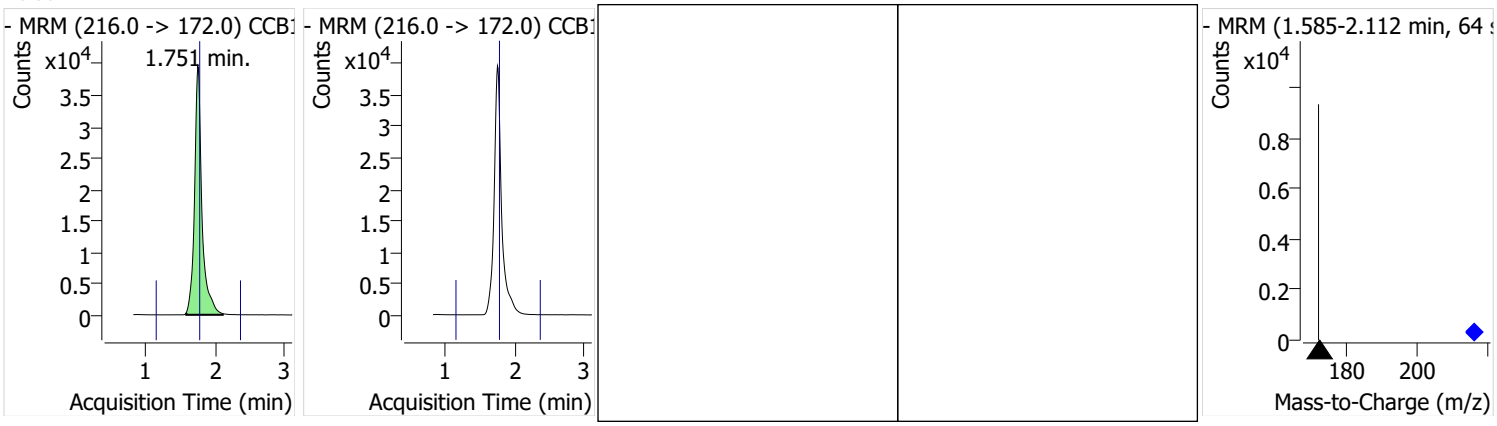
13C2-PFTeDA - ISTD



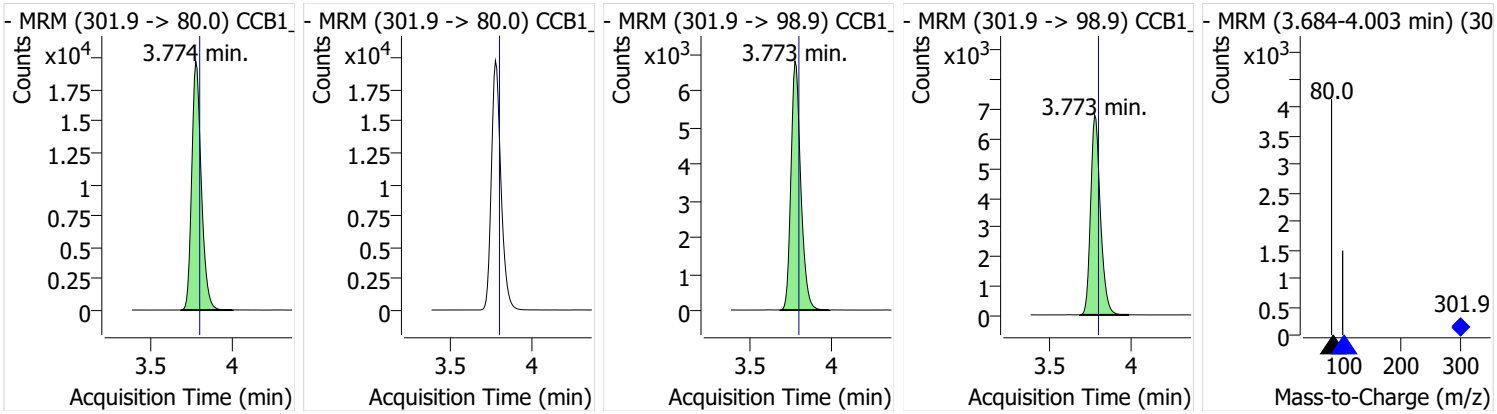
13C3-HFPODA - ISTD



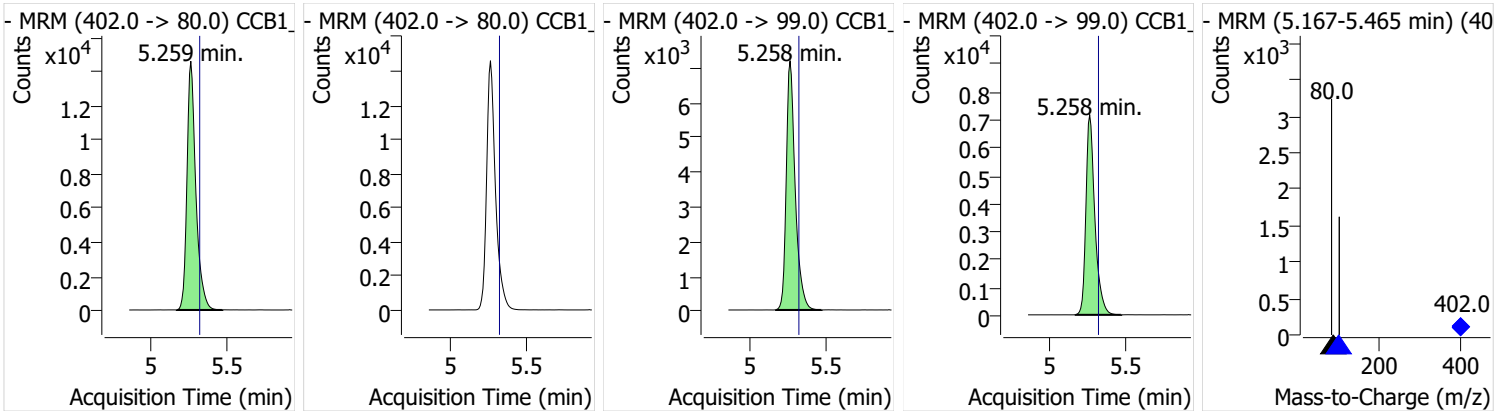
13C3-PFBA



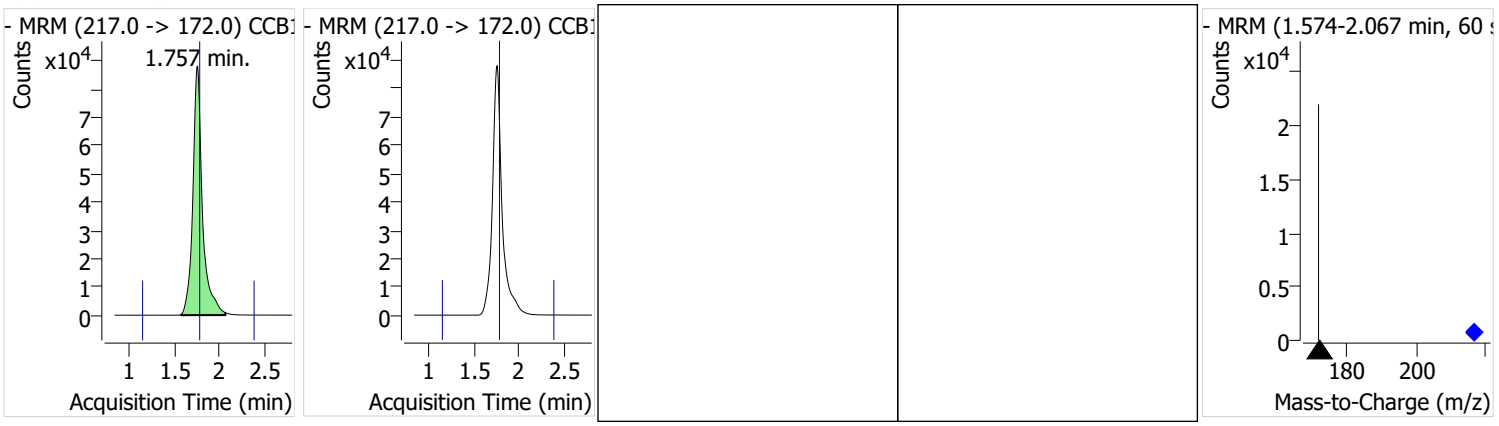
13C3-PFBS - ISTD



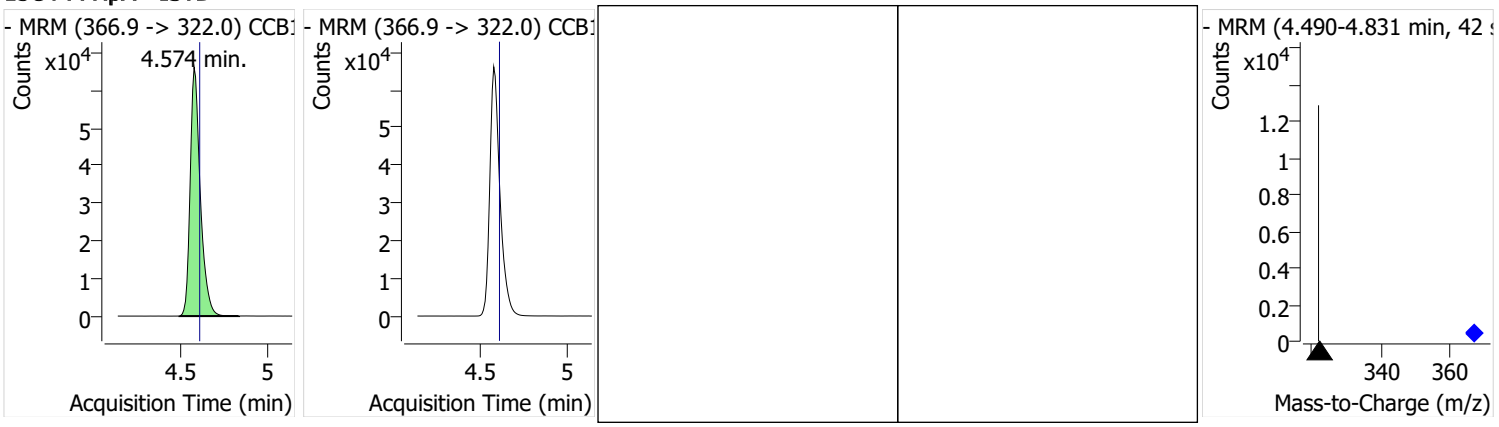
13C3-PFHxS - ISTD



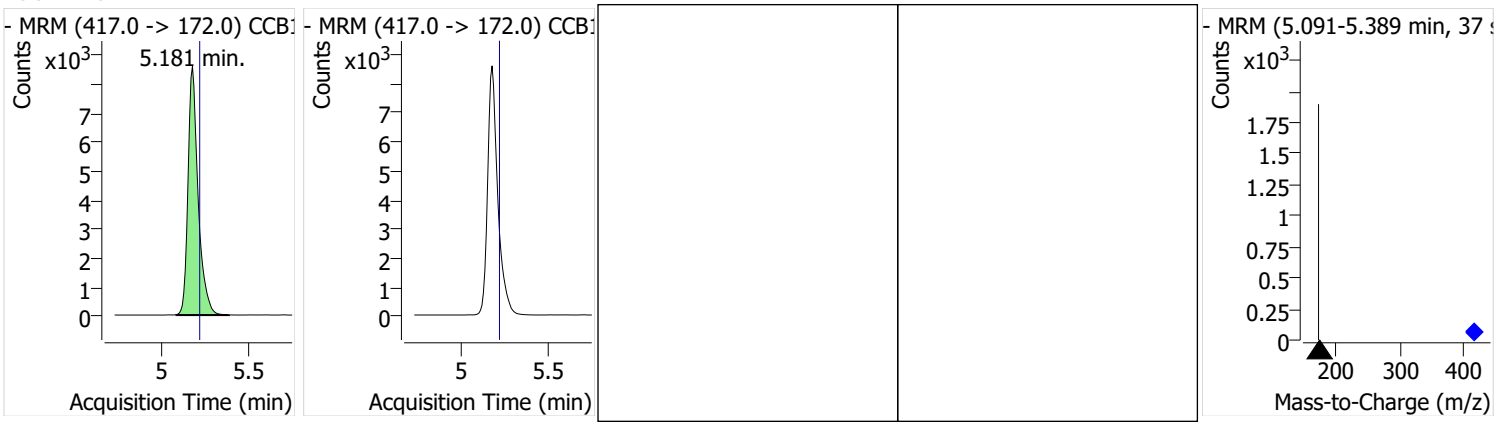
13C4-PFBA - ISTD



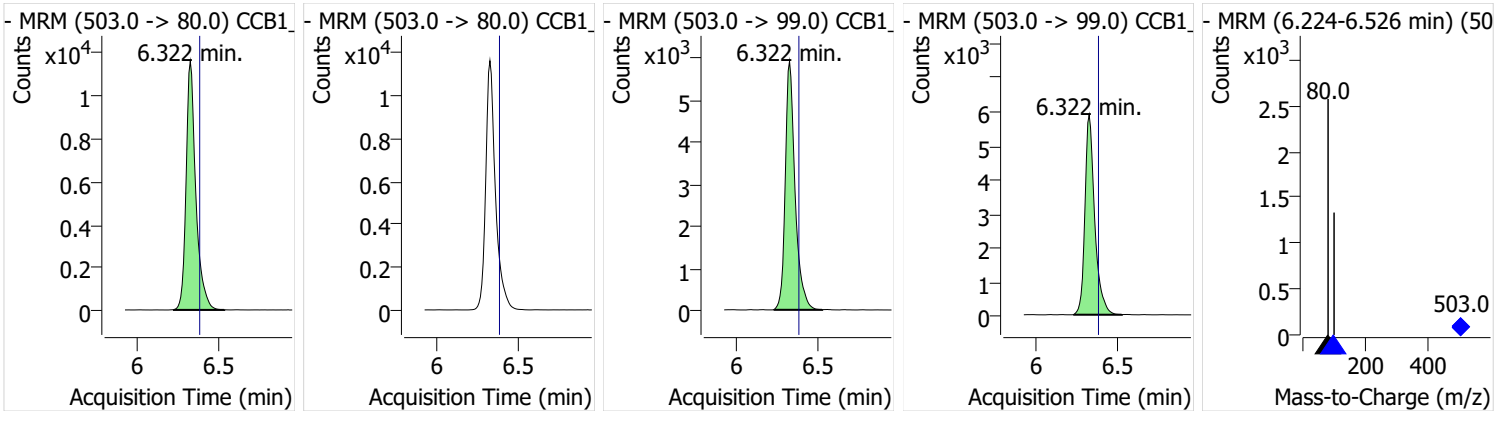
13C4-PFHpA - ISTD



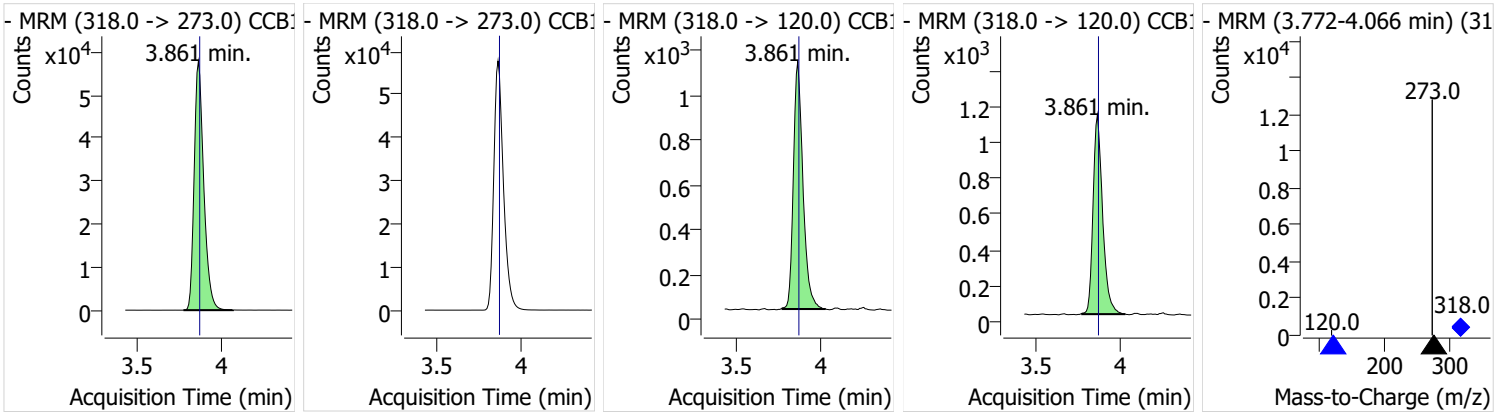
13C4-PFOA



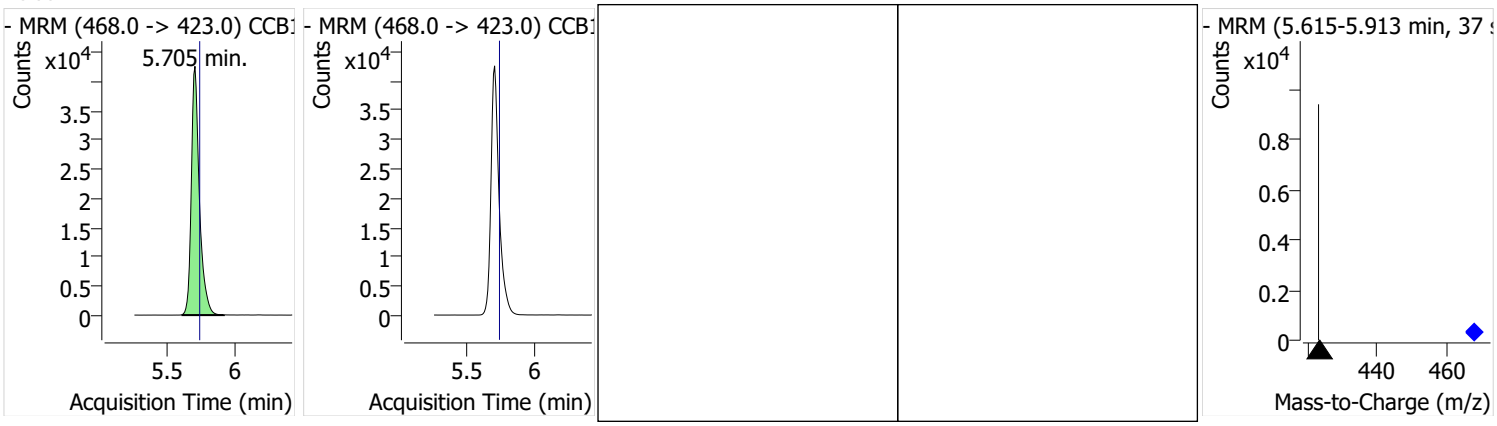
13C4-PFOS



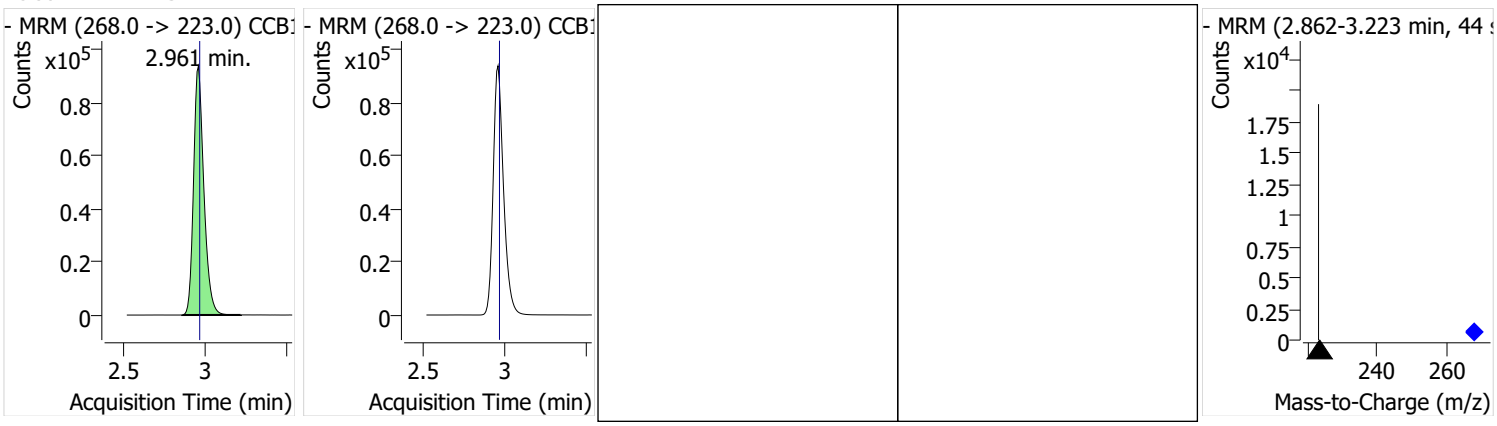
13C5-PFHxA - ISTD



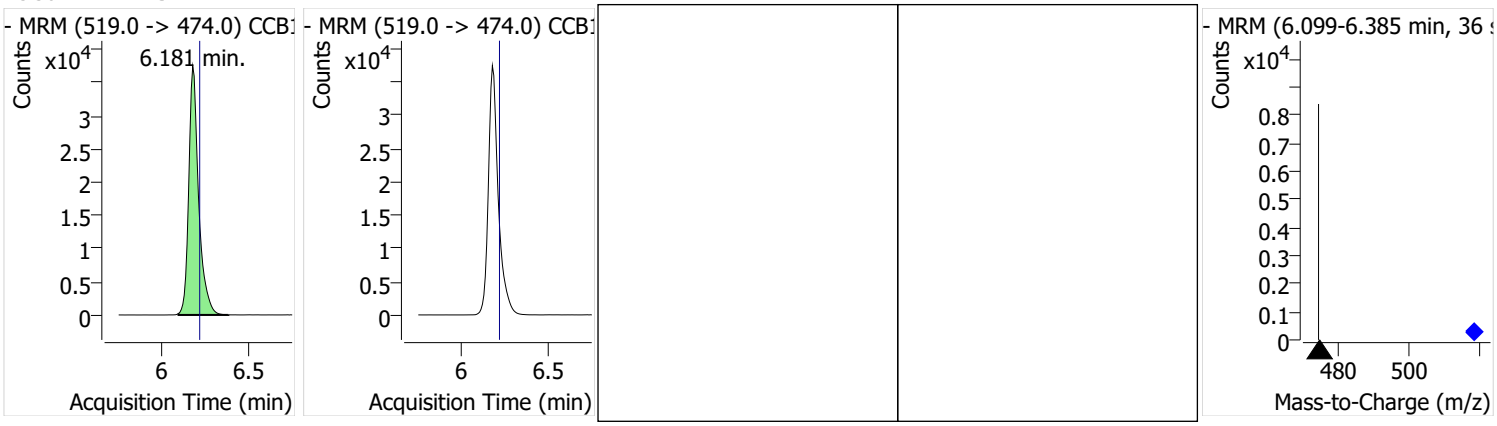
13C5-PFNA



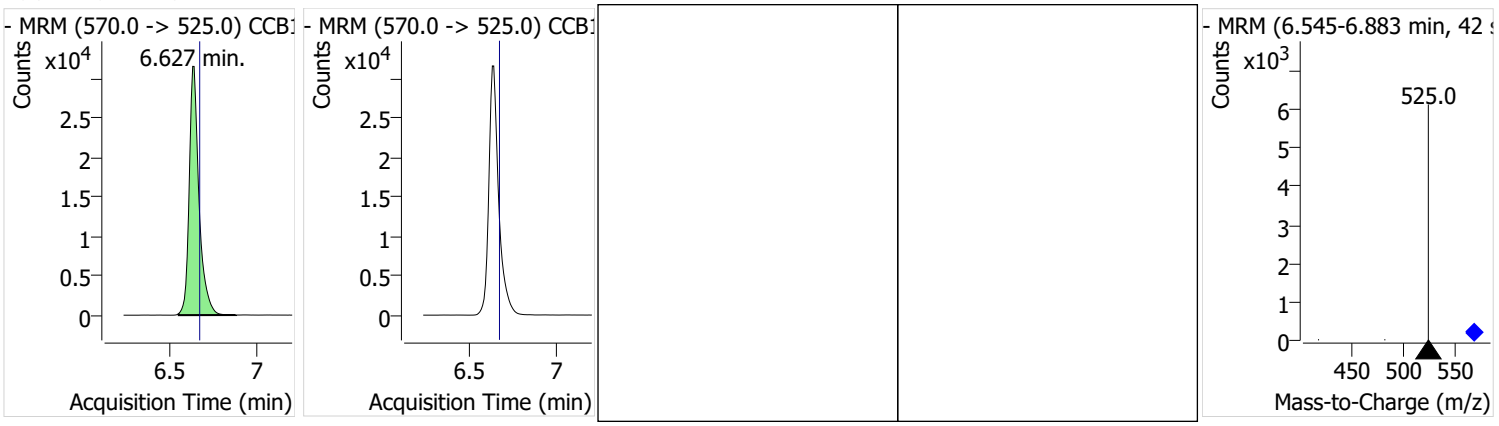
13C5-PFPeA - ISTD



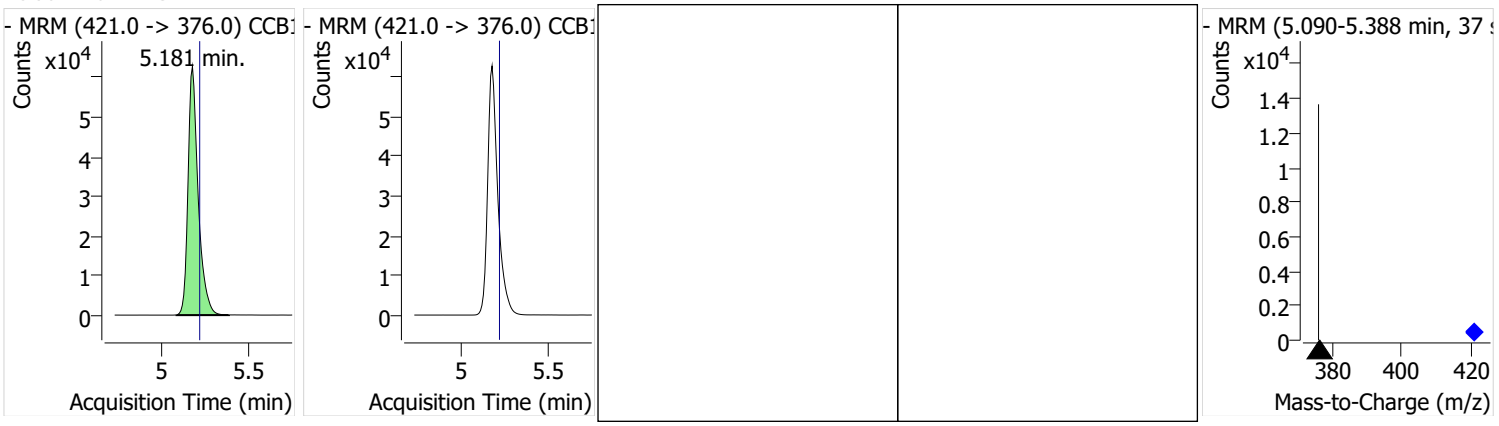
13C6-PFDA - ISTD



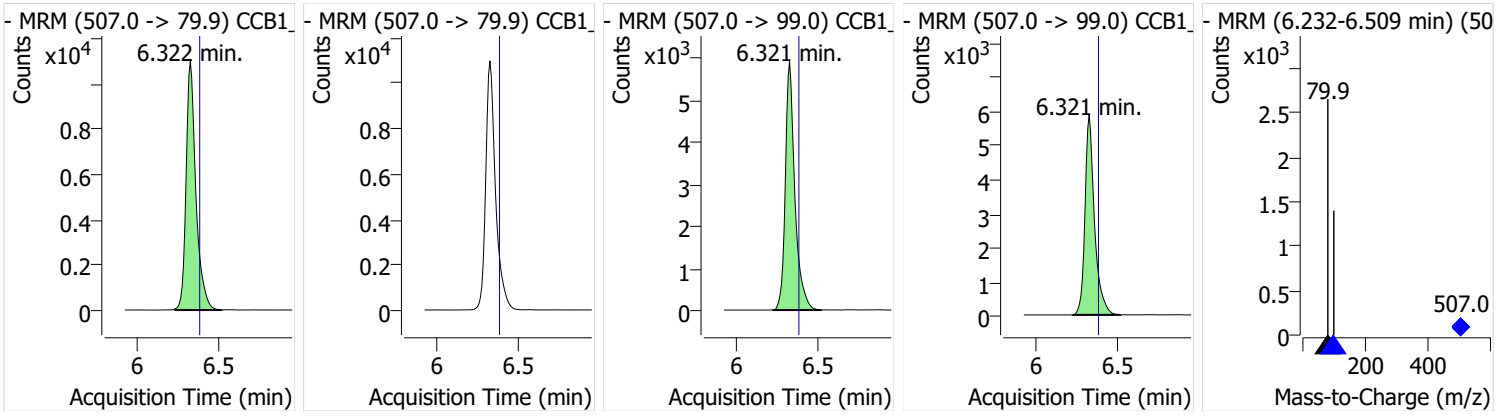
13C7-PFUnA - ISTD



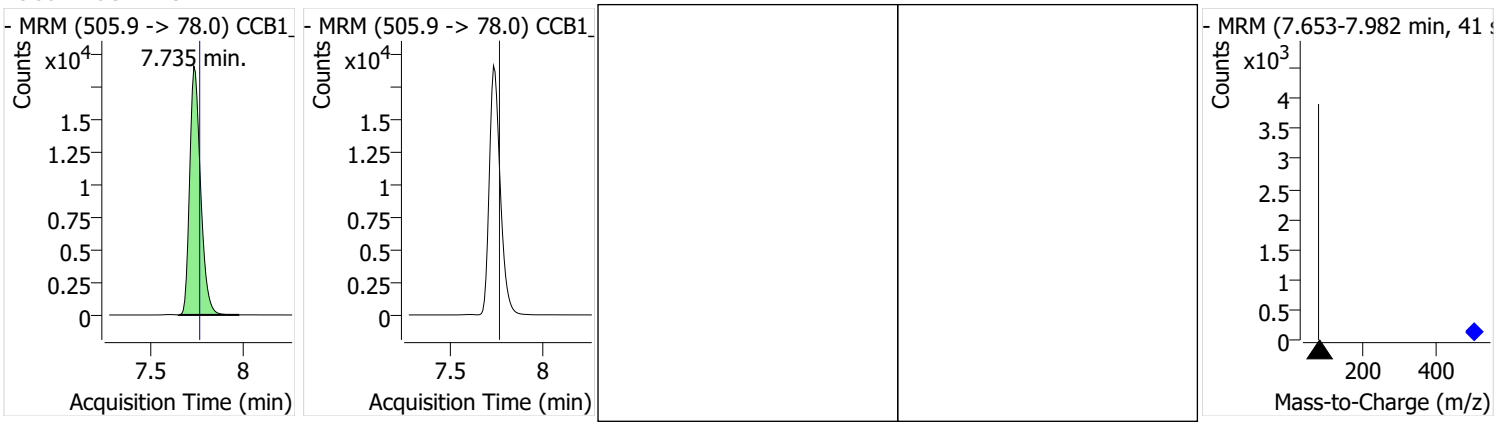
13C8-PFOA - ISTD



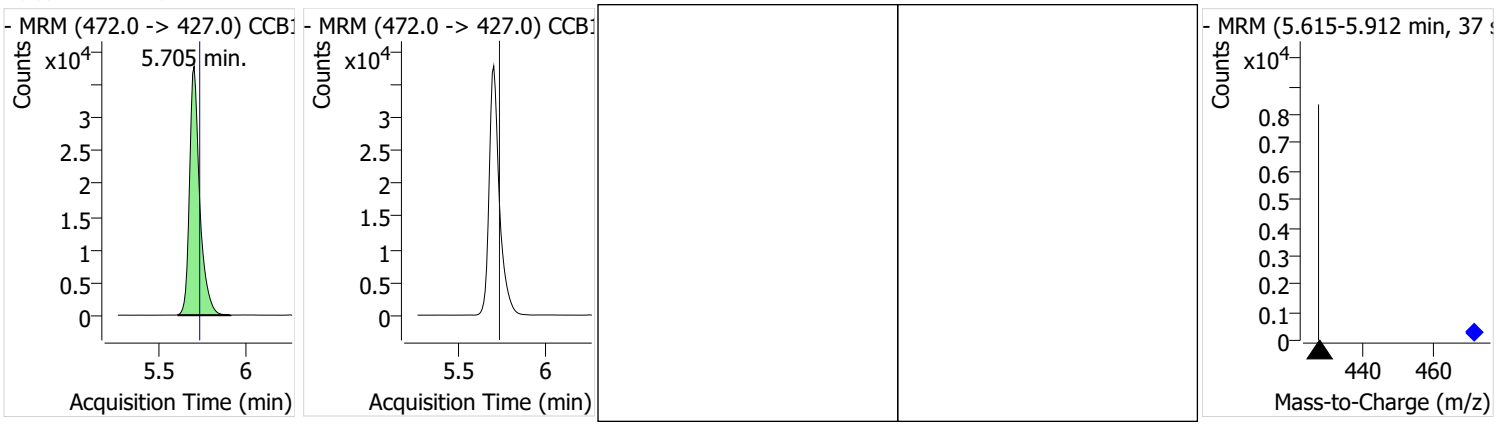
13C8-PFOS - ISTD



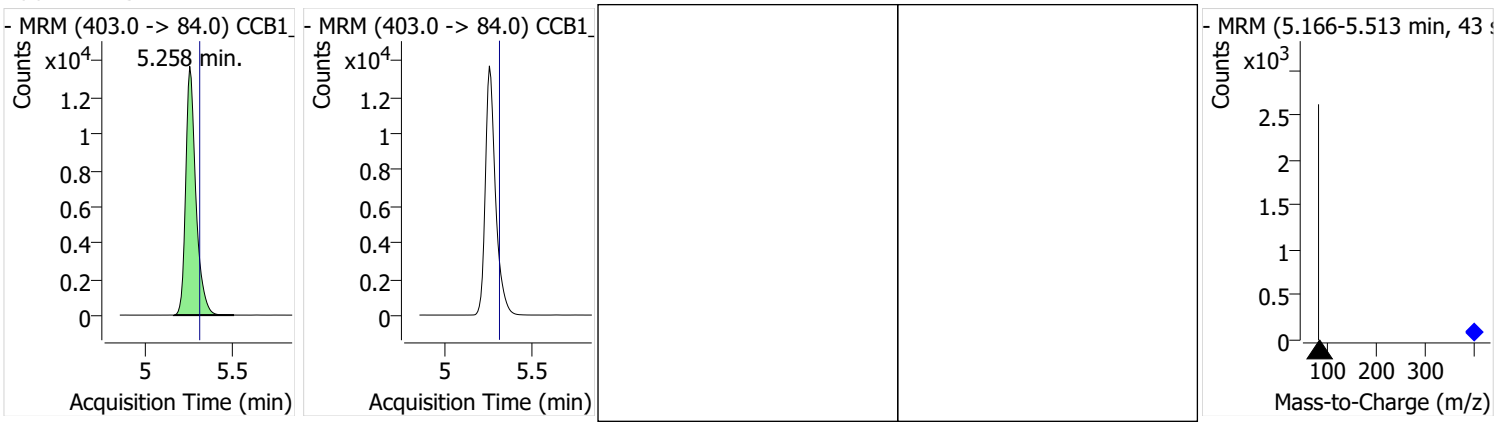
13C8-PFOSA - ISTD



13C9-PFNA - ISTD



18O2-PFHxS



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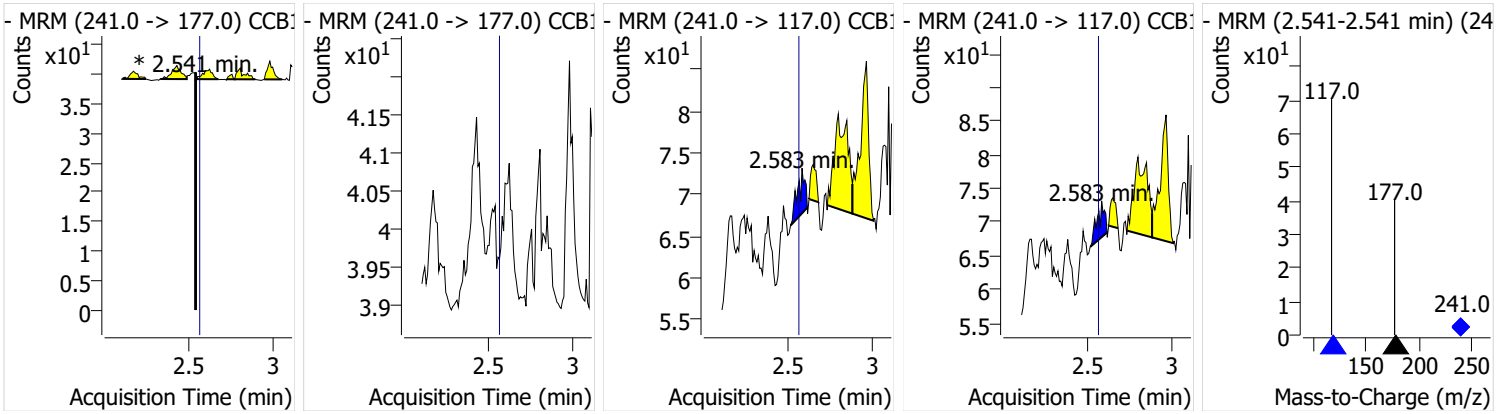
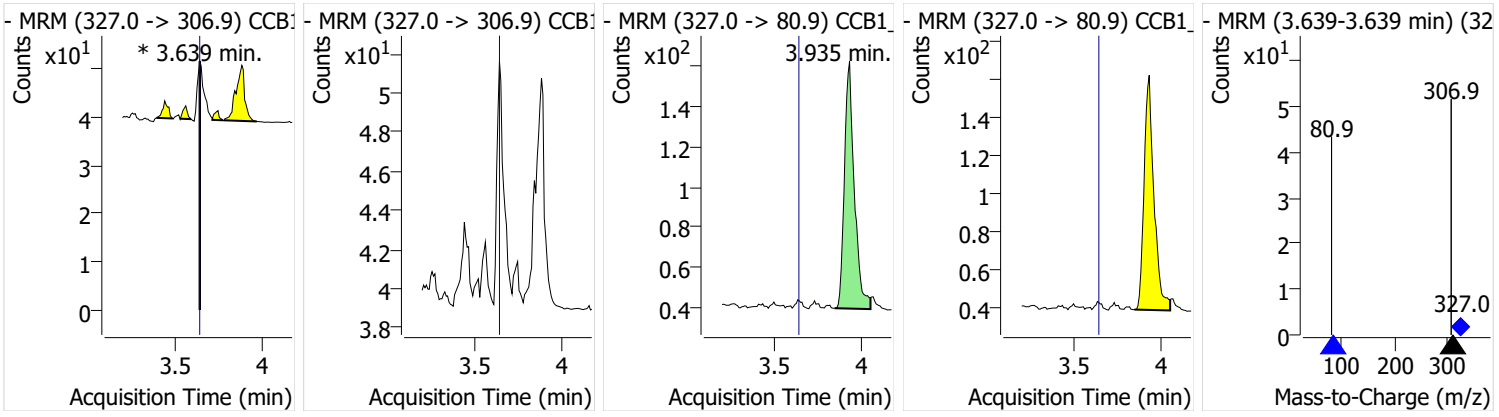


4:2FTS



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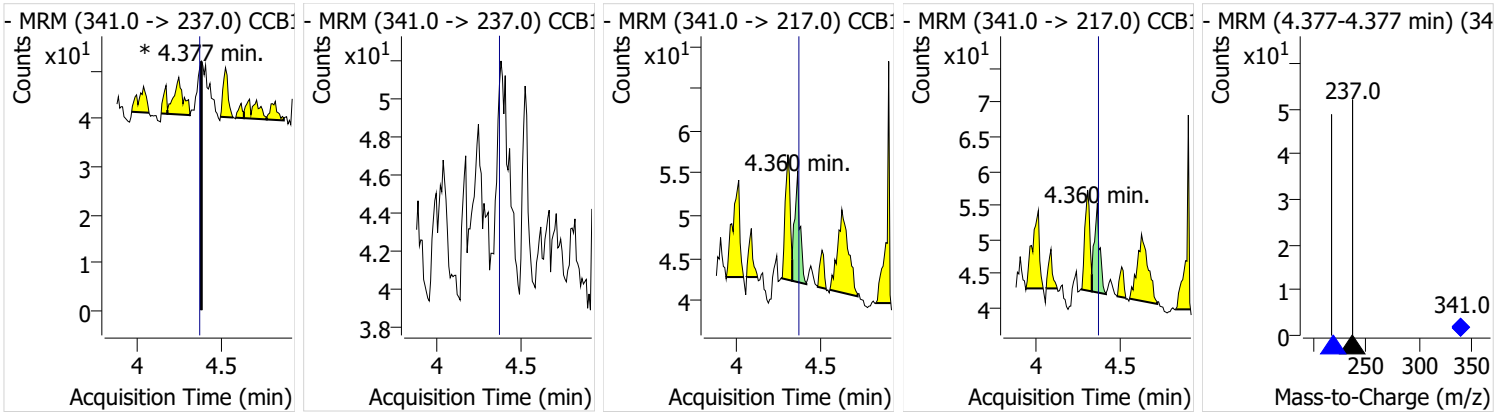
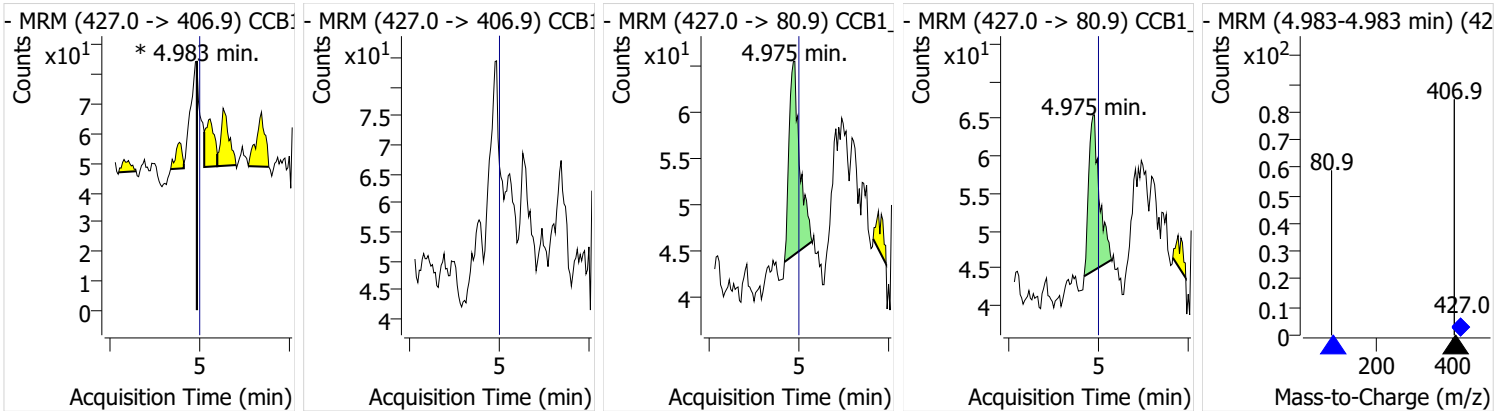
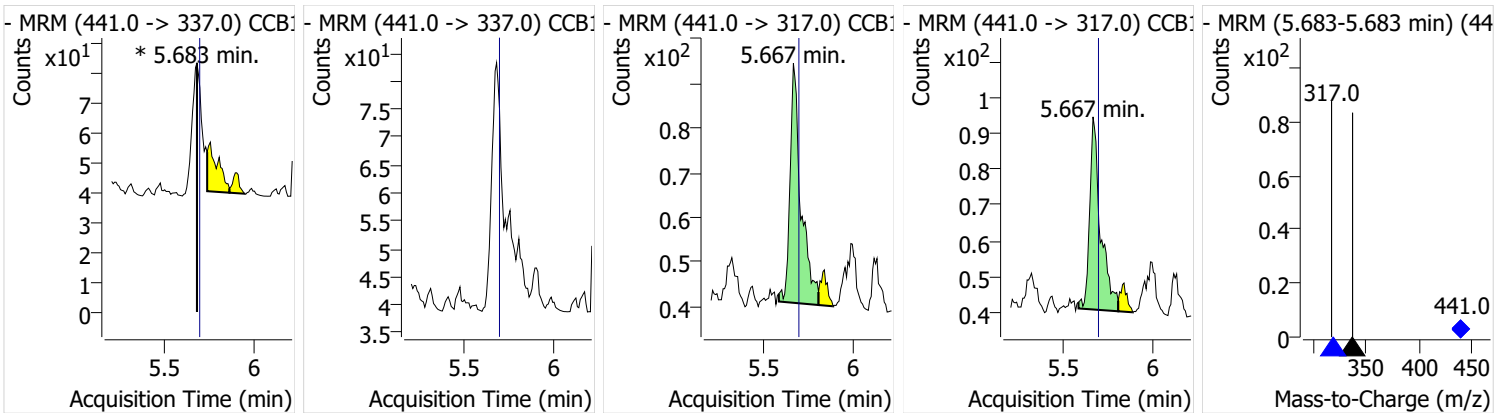


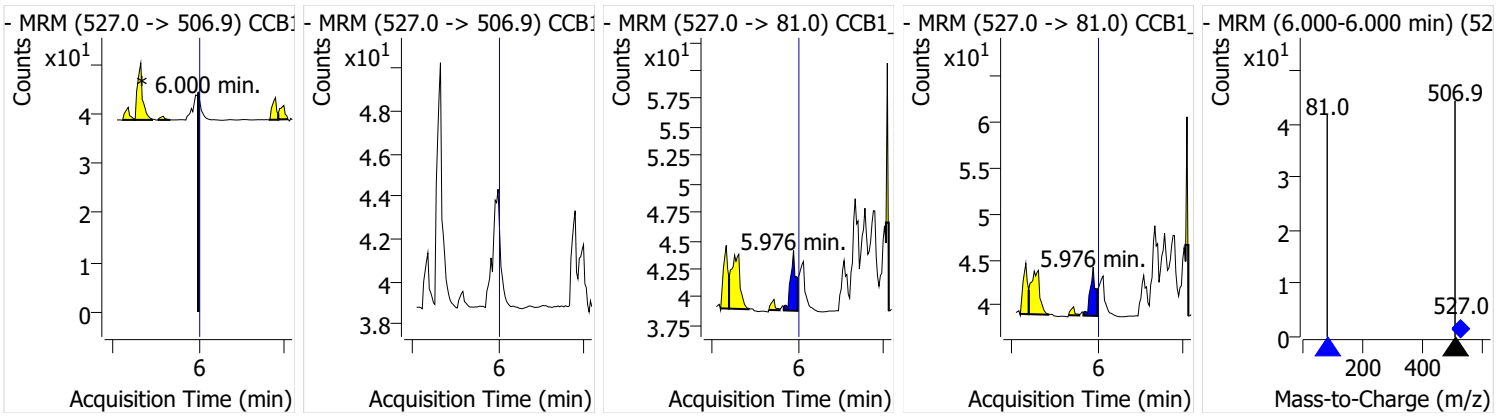
6:2FTS



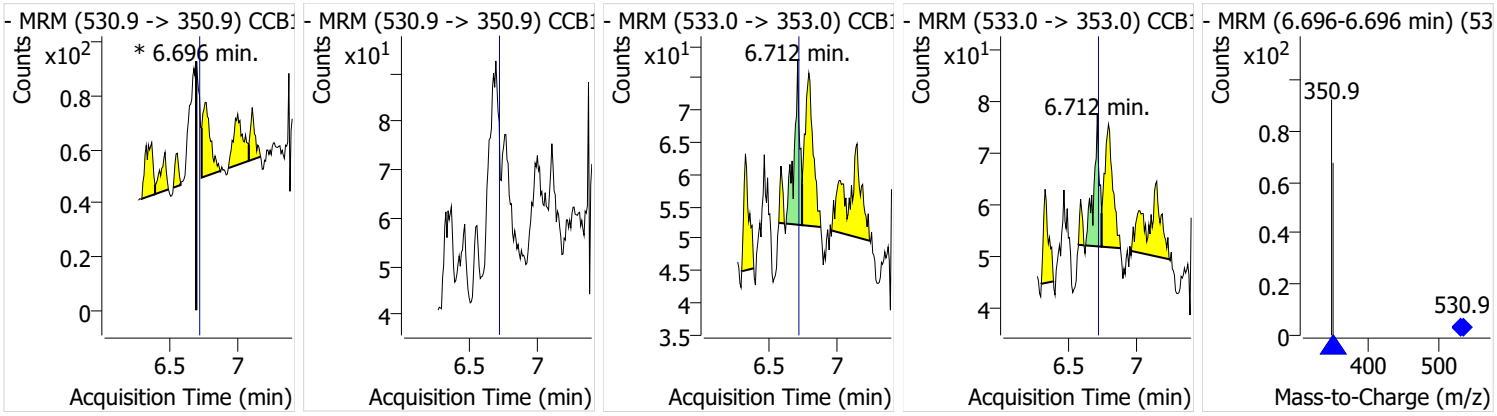
7:3FTCA



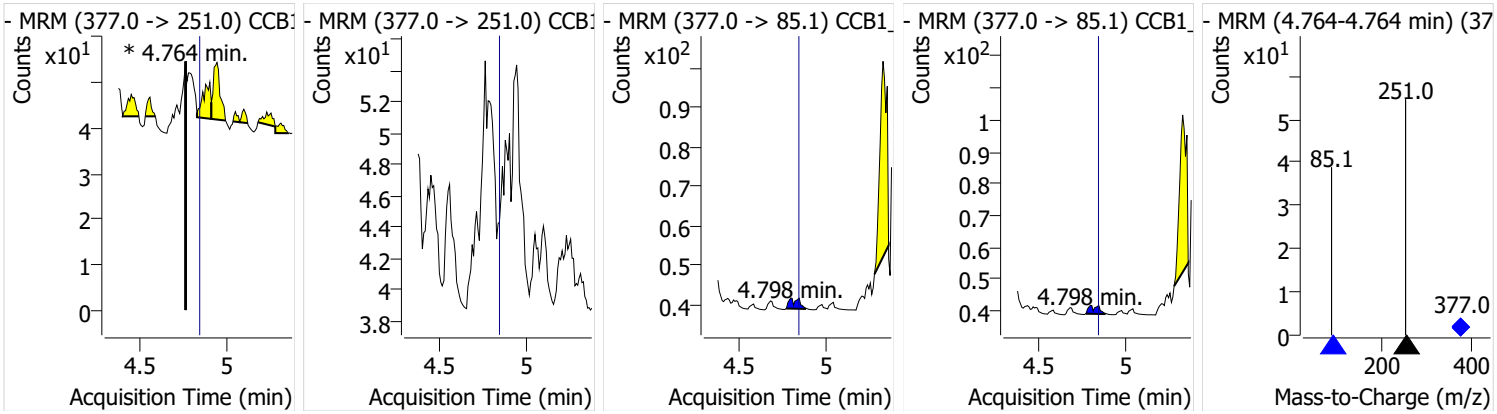
8:2FTS



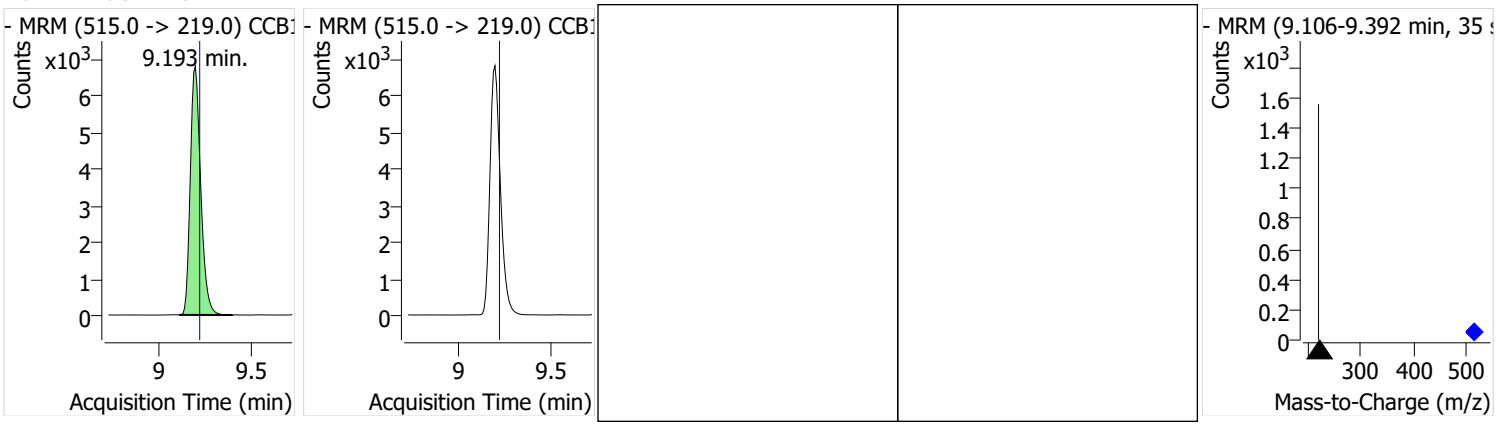
9Cl-PF3ONS



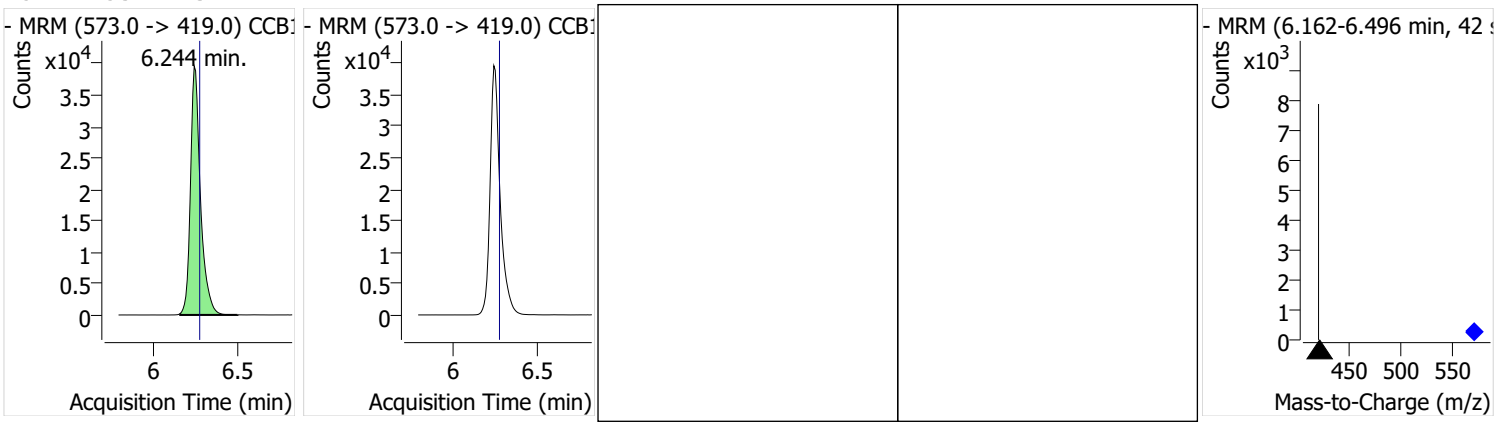
ADONA



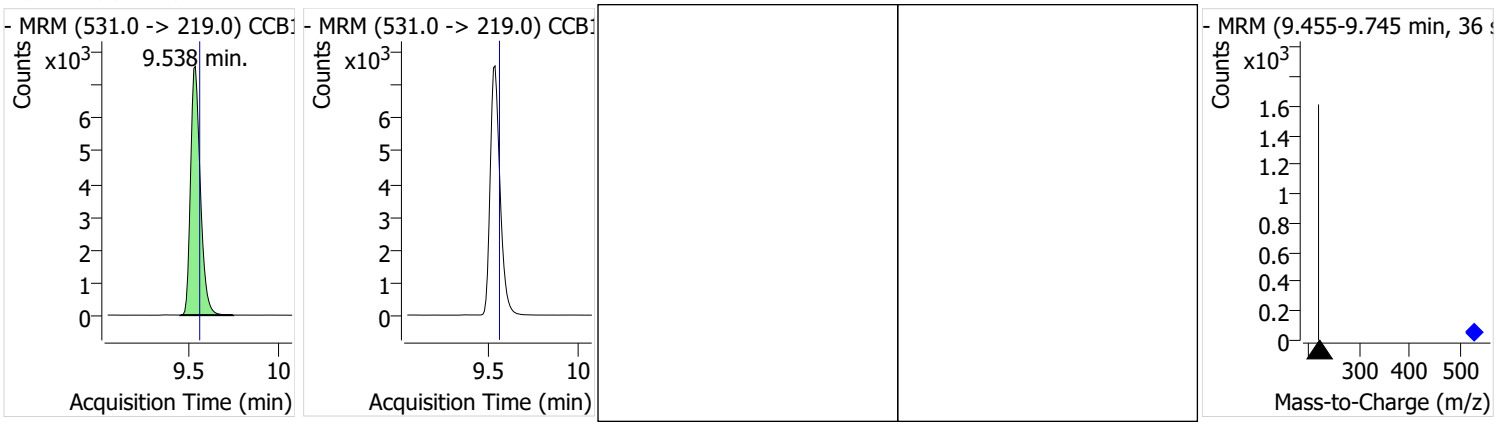
D3-NMeFOSA - ISTD



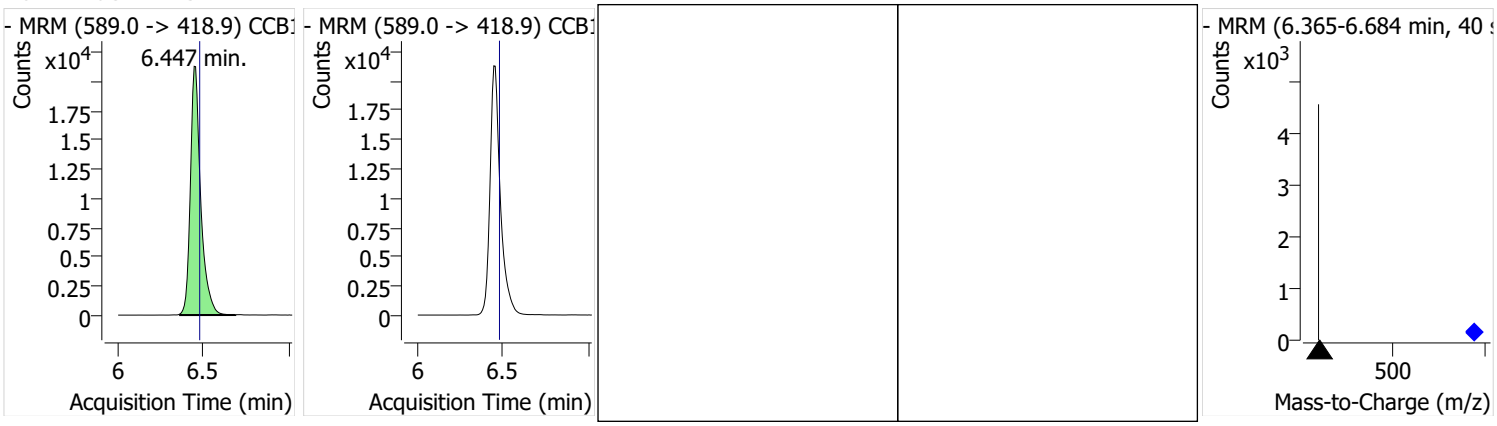
D3-NMeFOSAA - ISTD



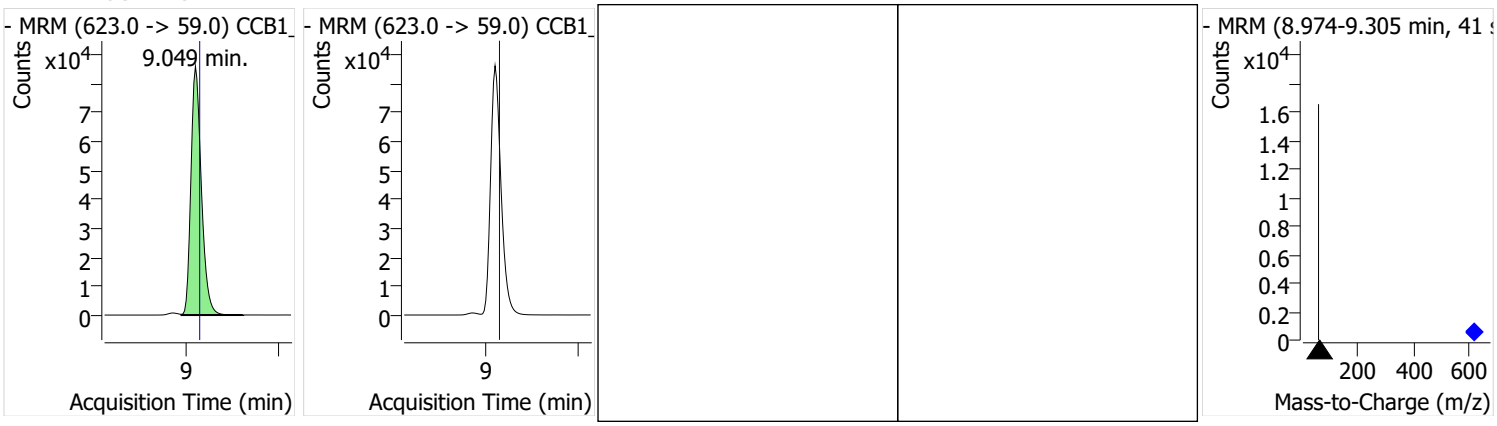
D5-NEtFOSA - ISTD



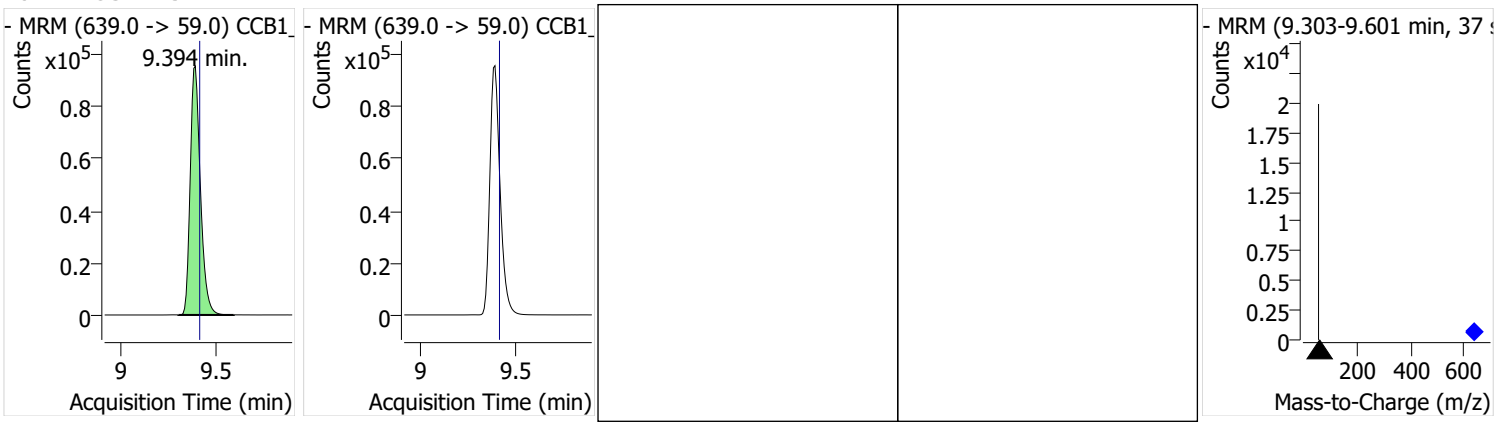
D5-NEtFOSAA - ISTD



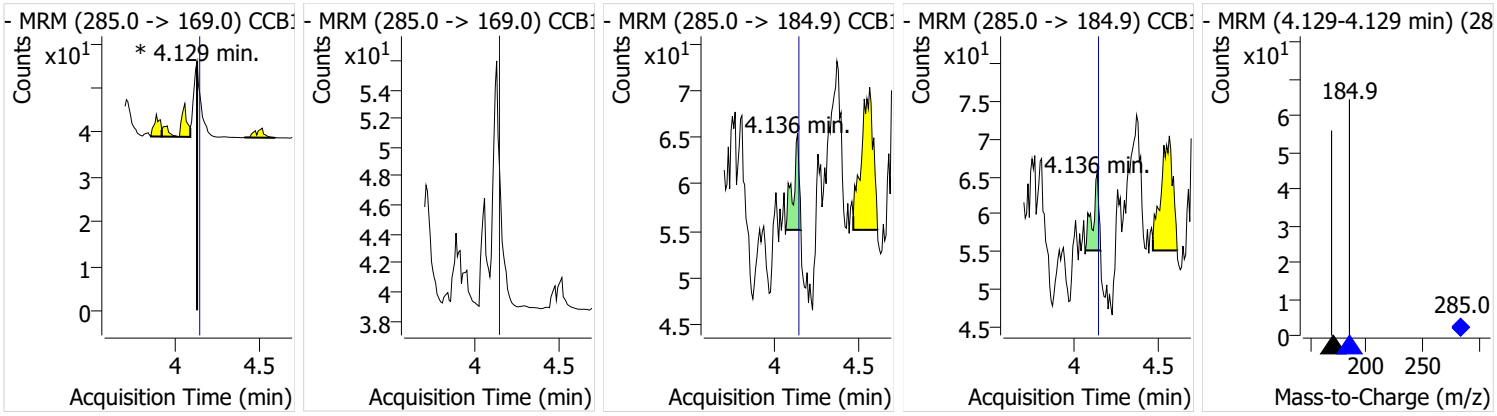
D7-NMeFOSE - ISTD



D9-NEtFOSE - ISTD



HFPO-DA



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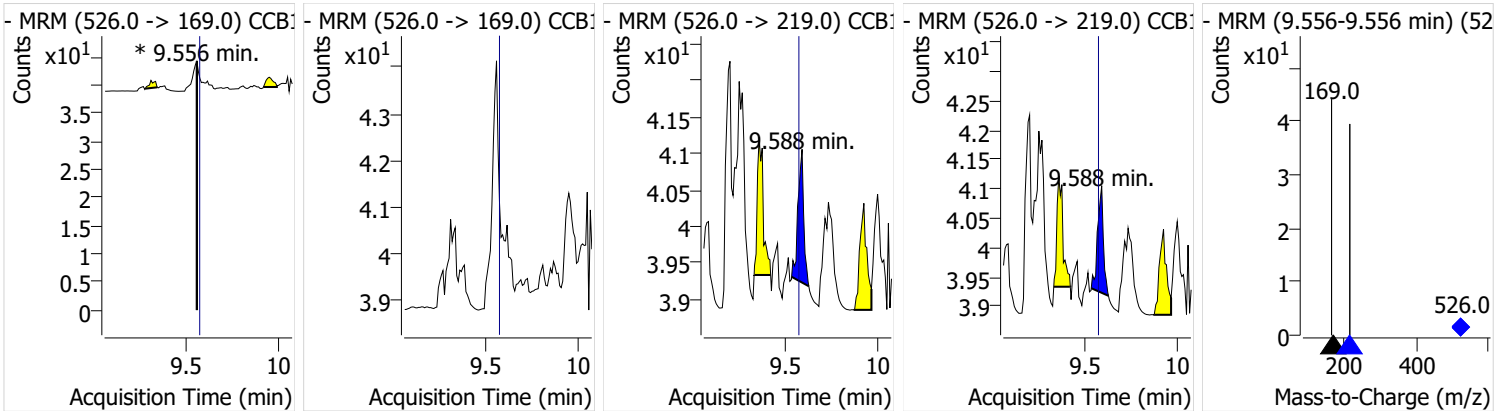

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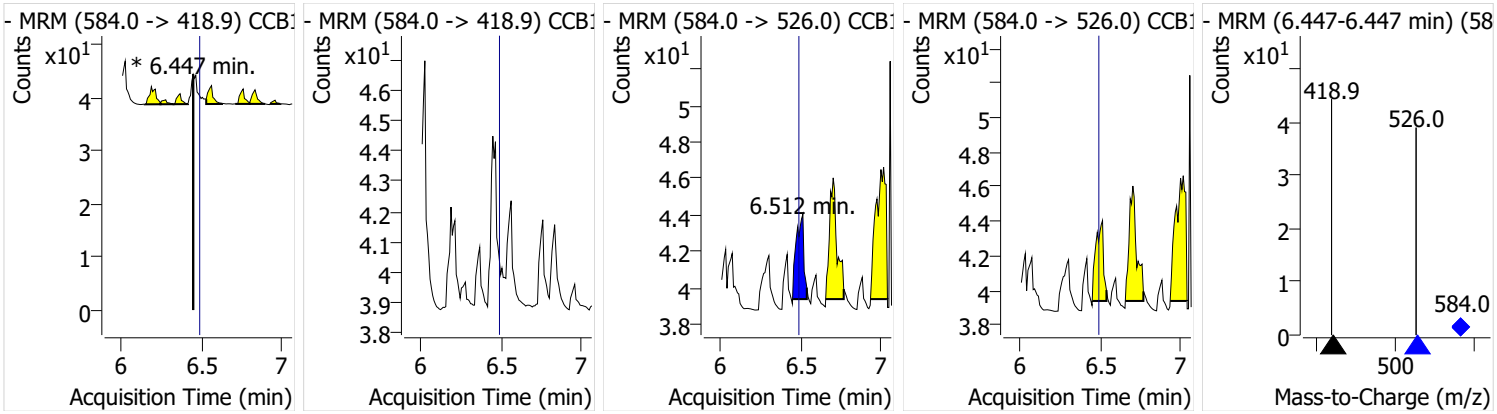
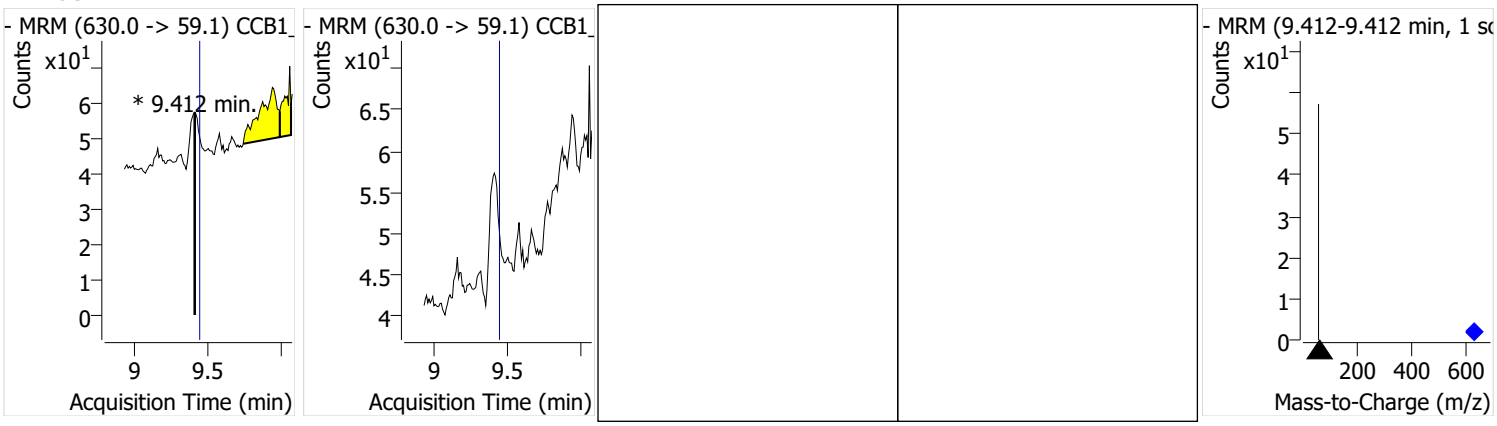


NEtFOSE



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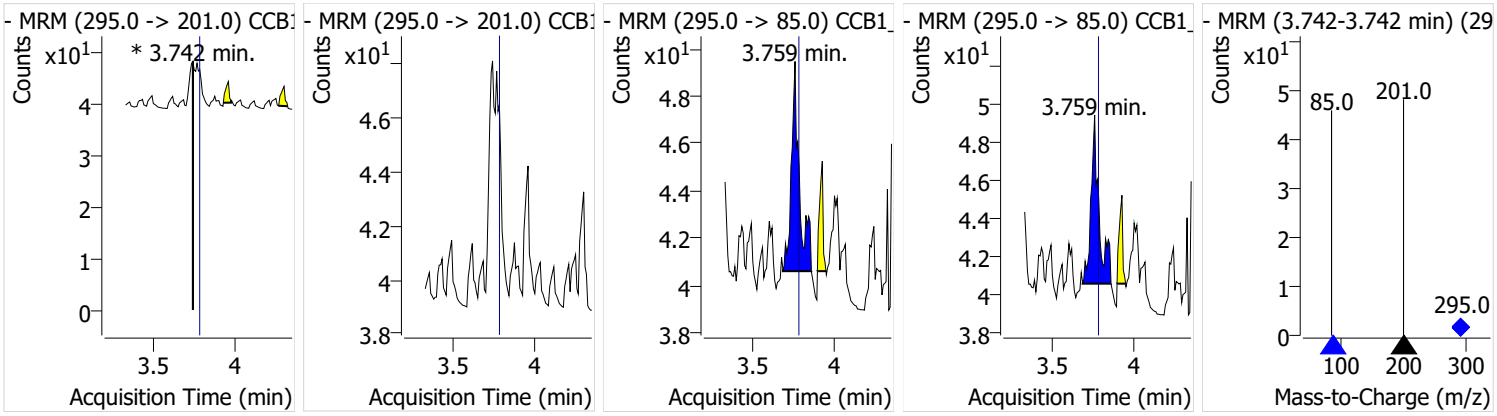

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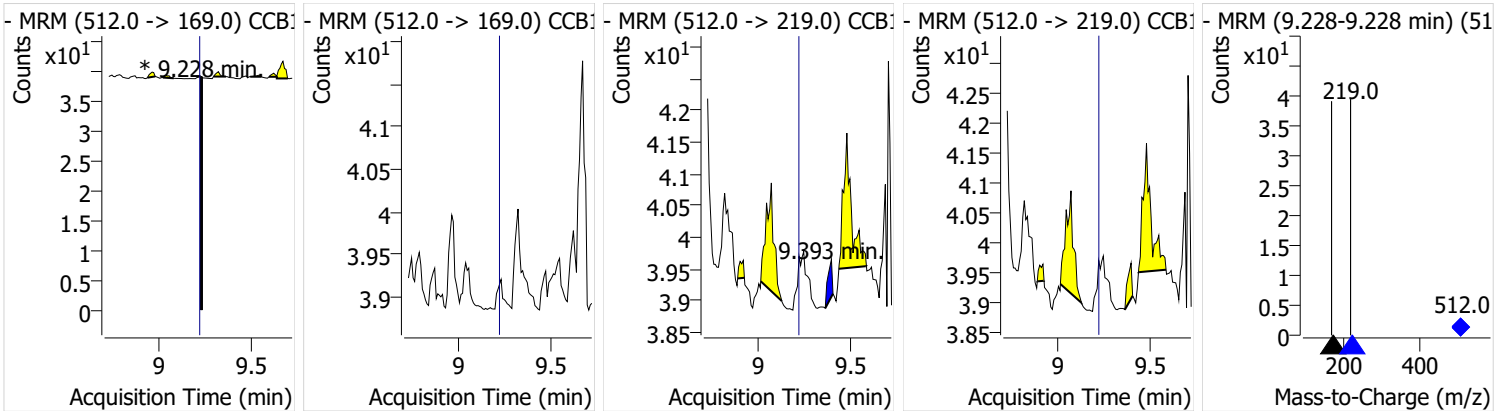

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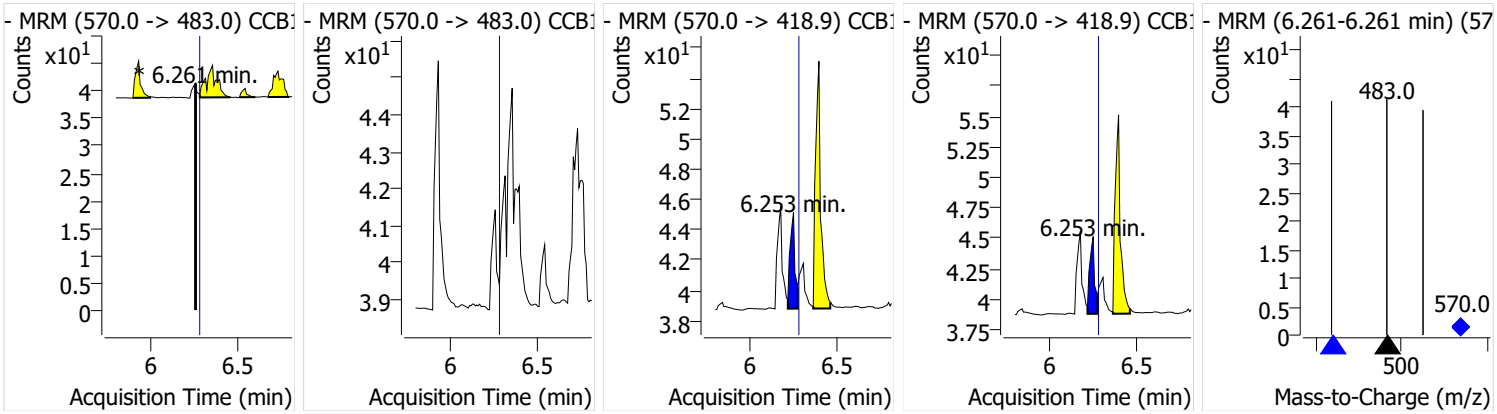

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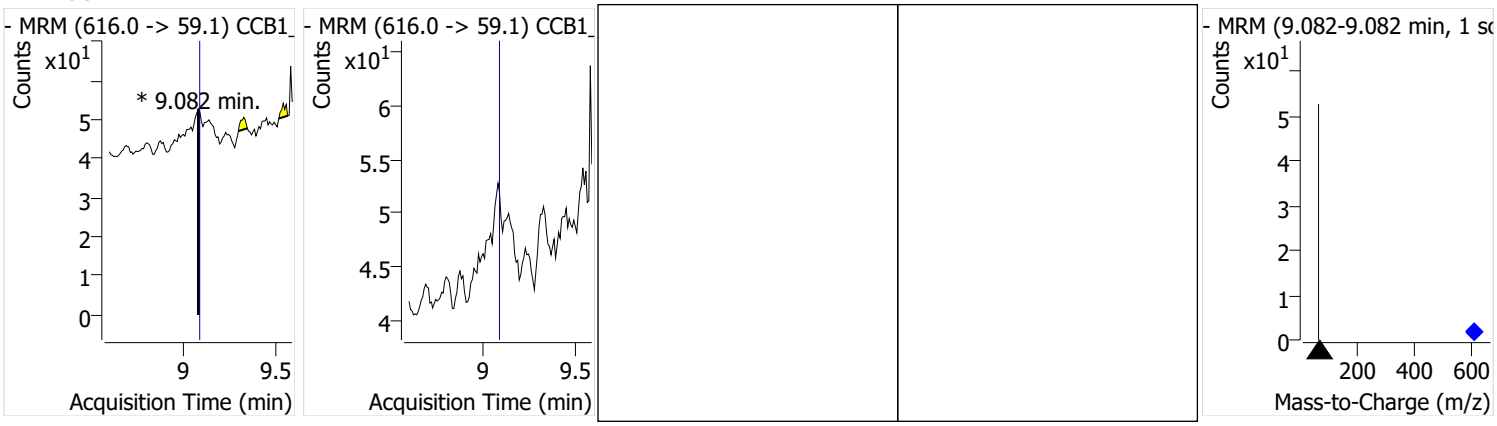
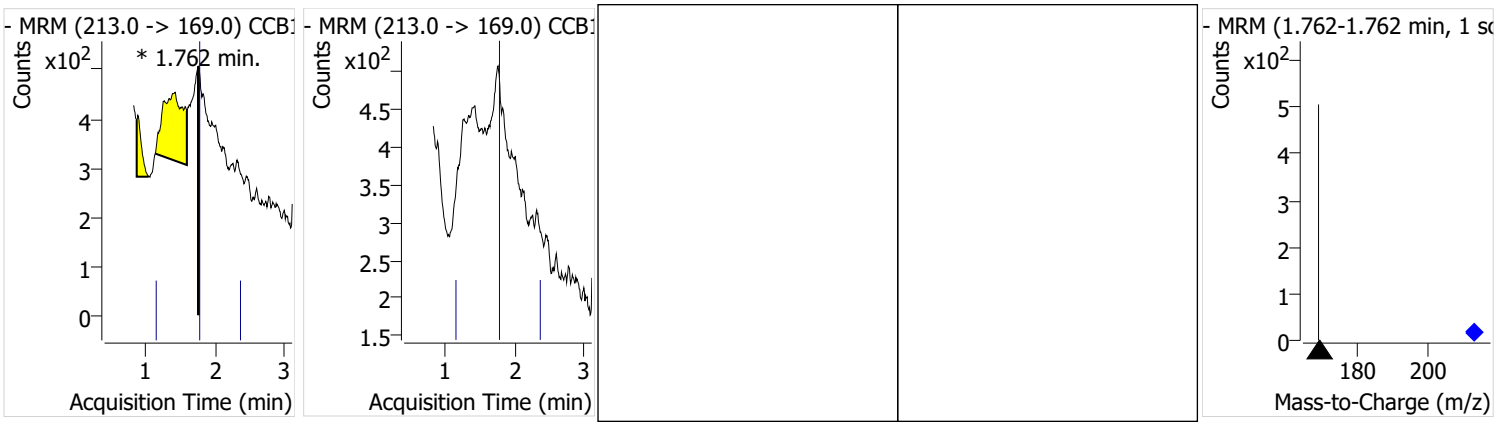


PFBA



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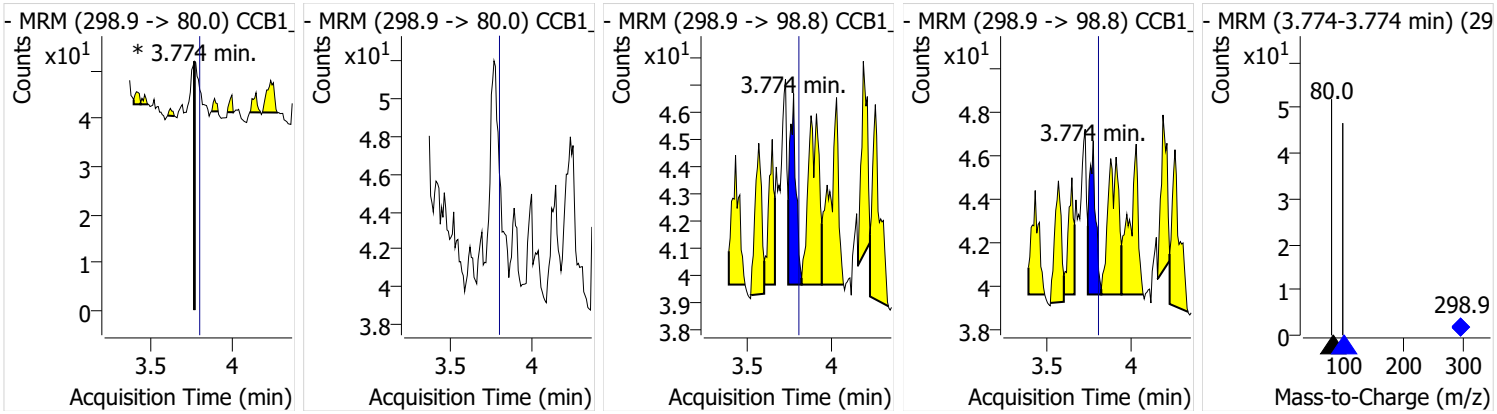

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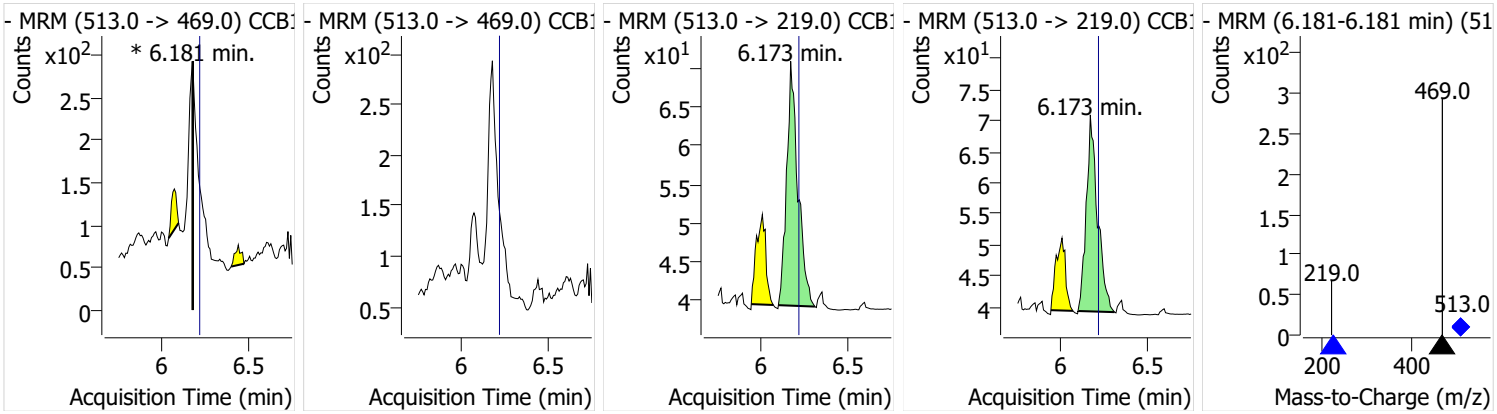
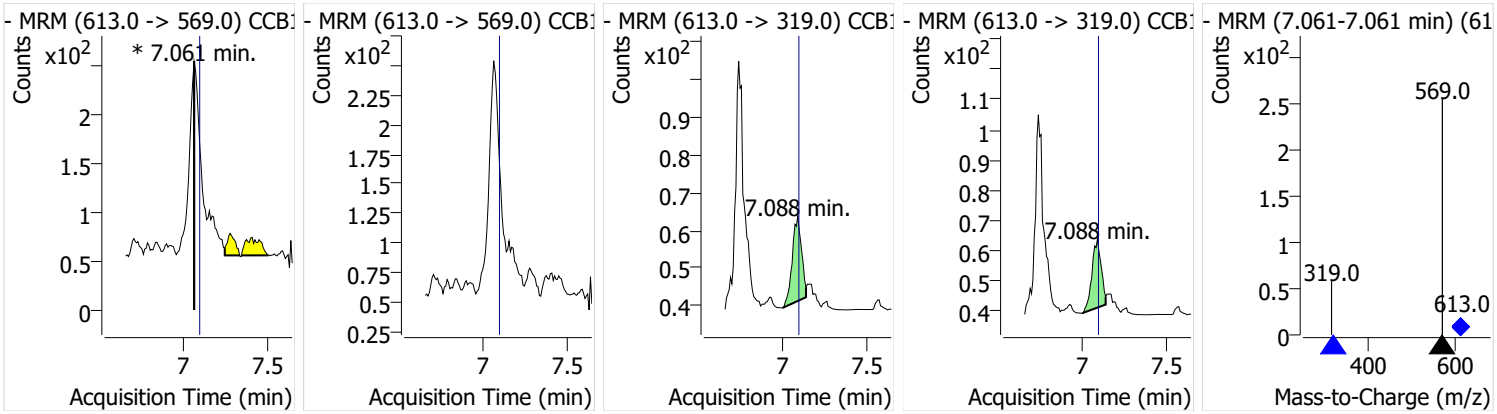


PFDoA



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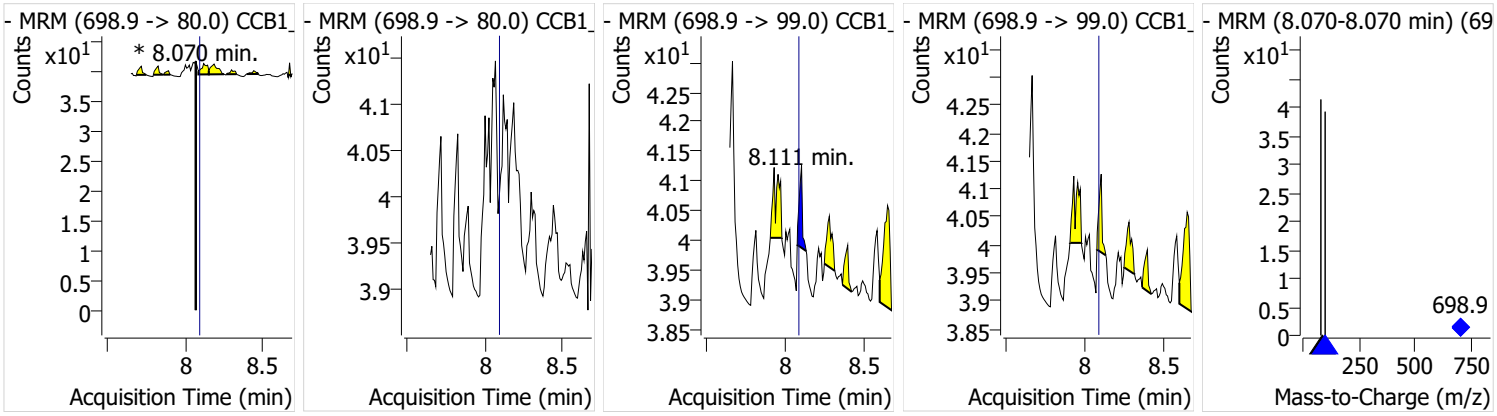

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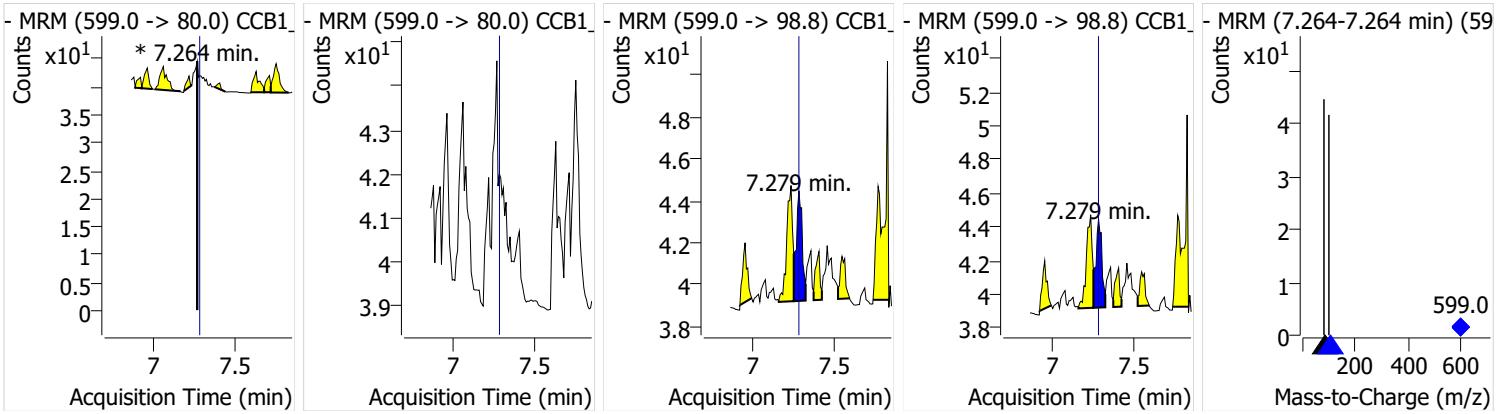

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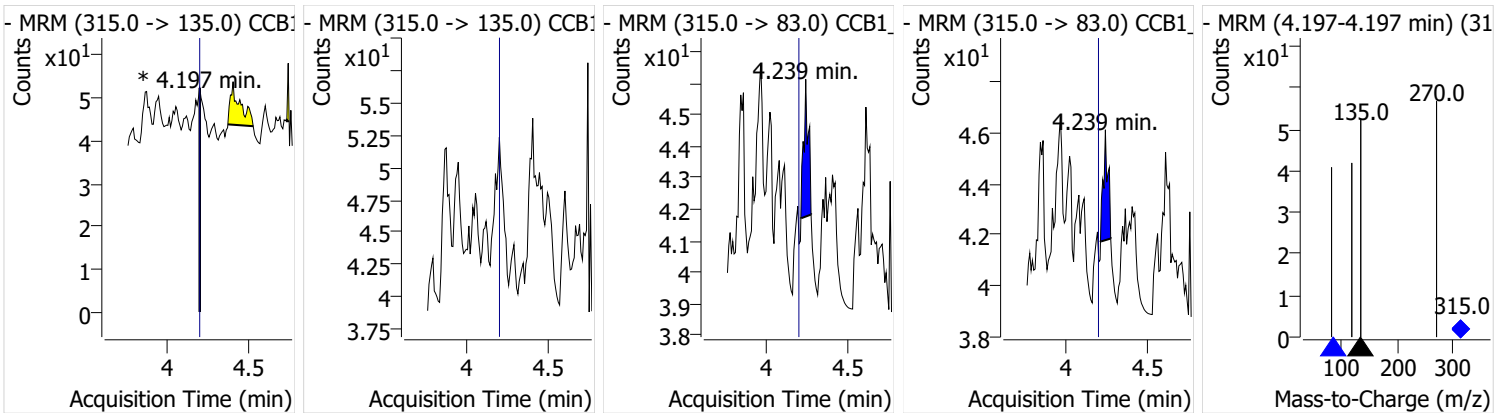
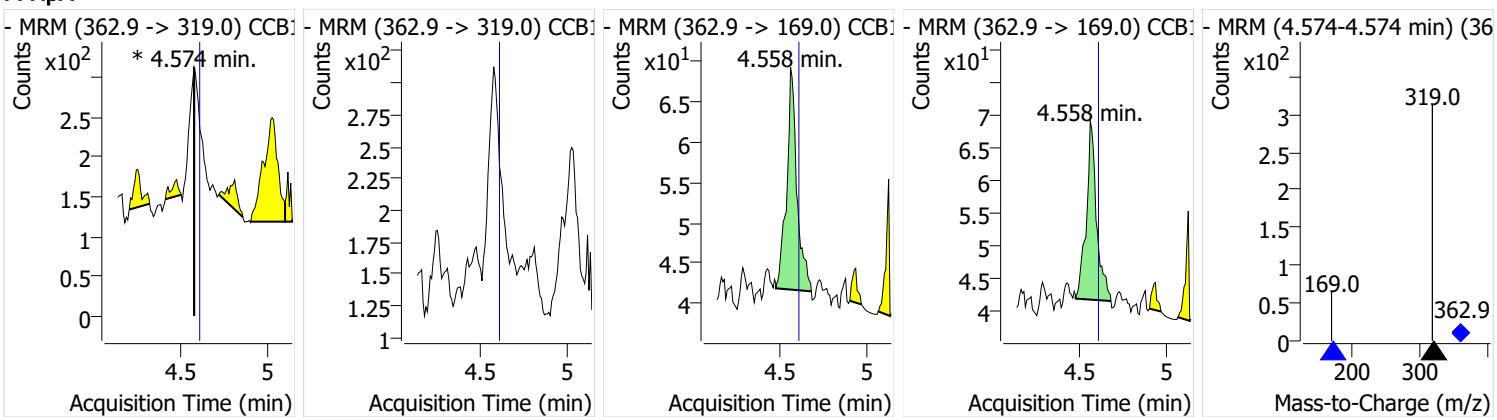
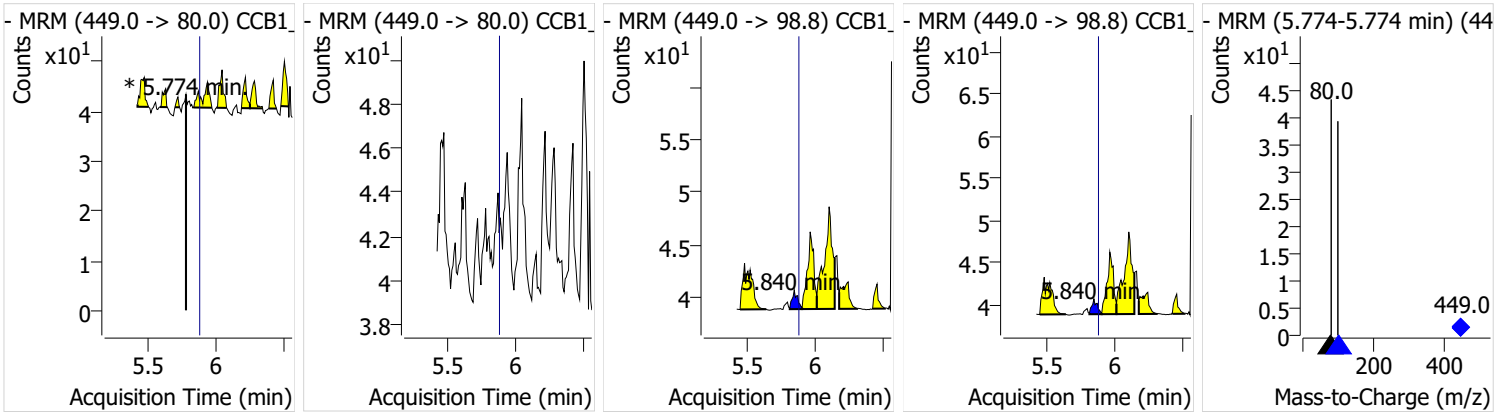


PFHpA



PFHpS



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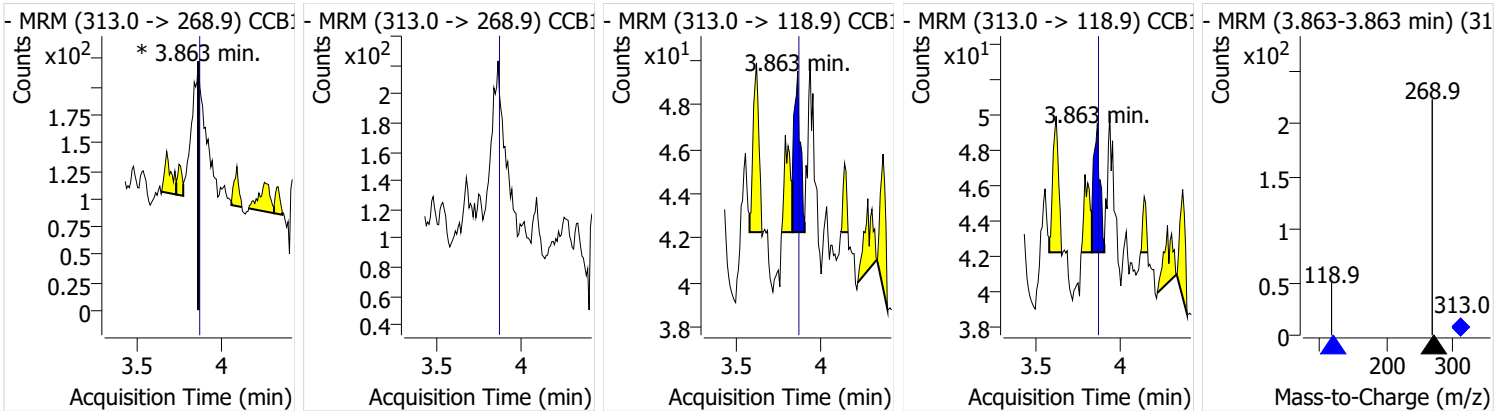
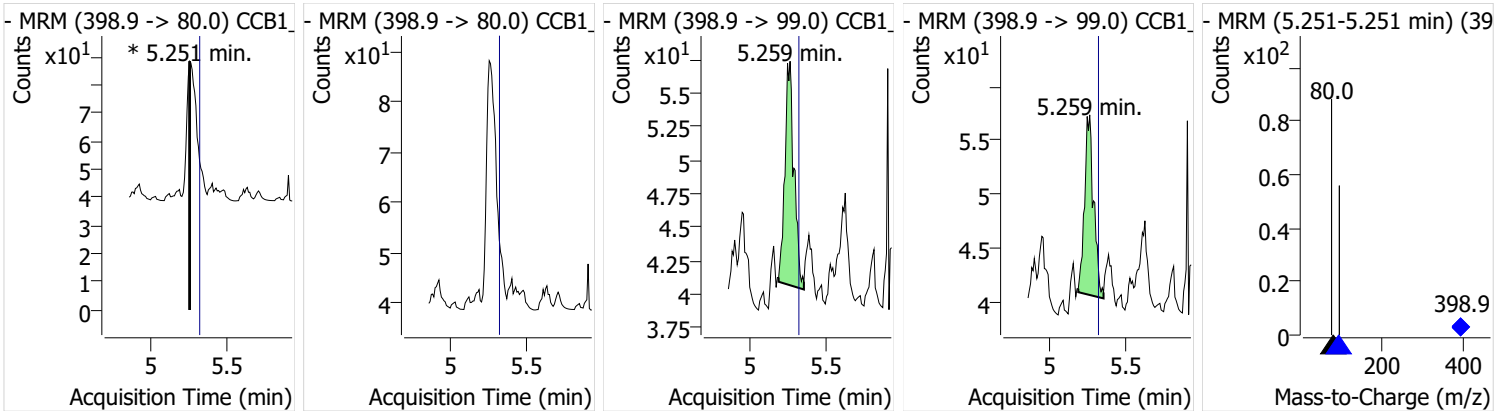
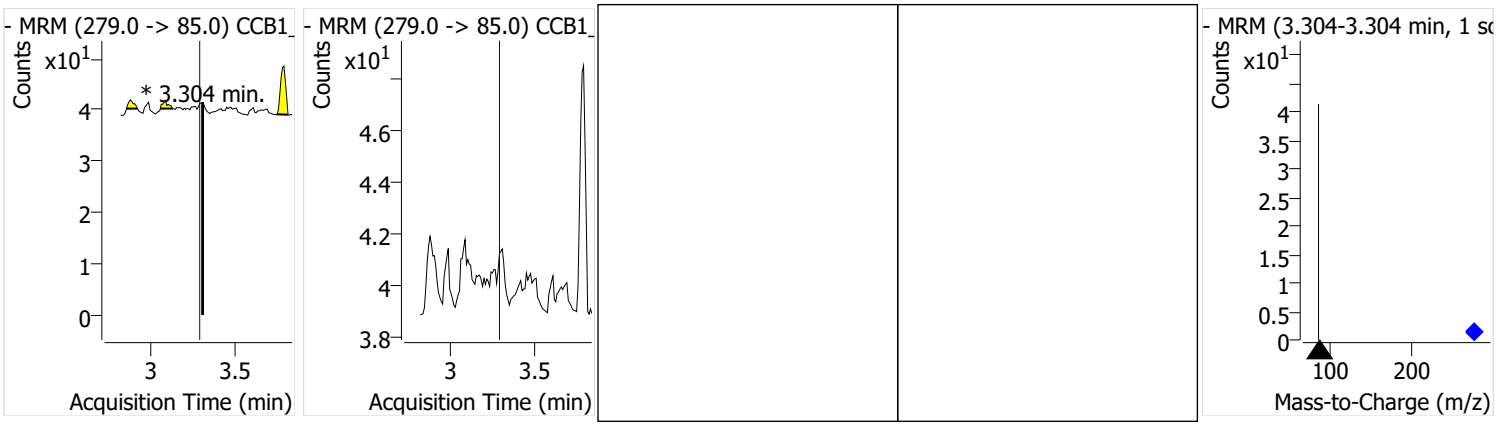


PFHxS



PFMBA



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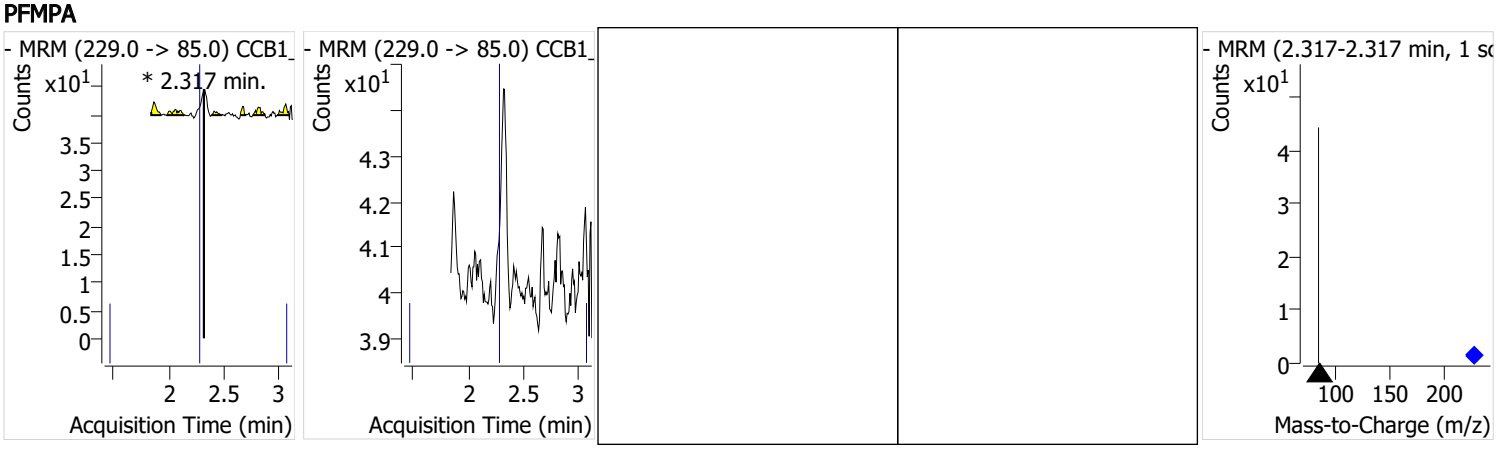

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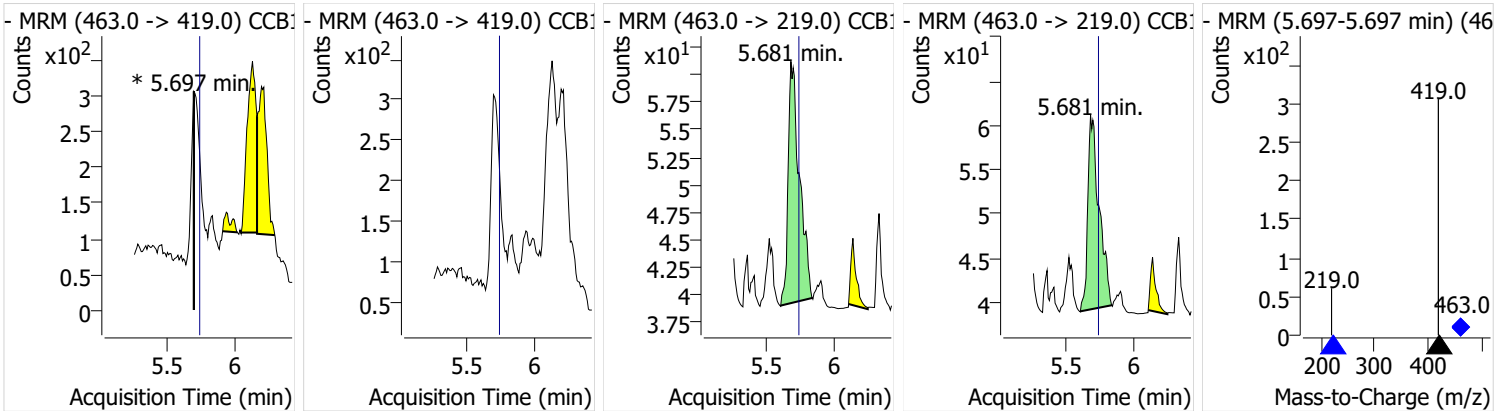
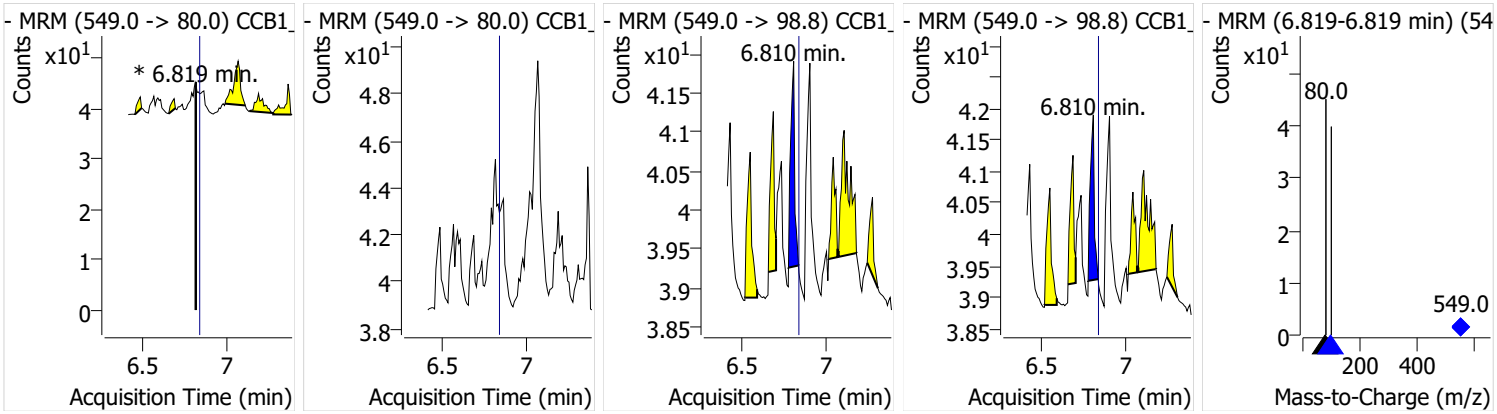
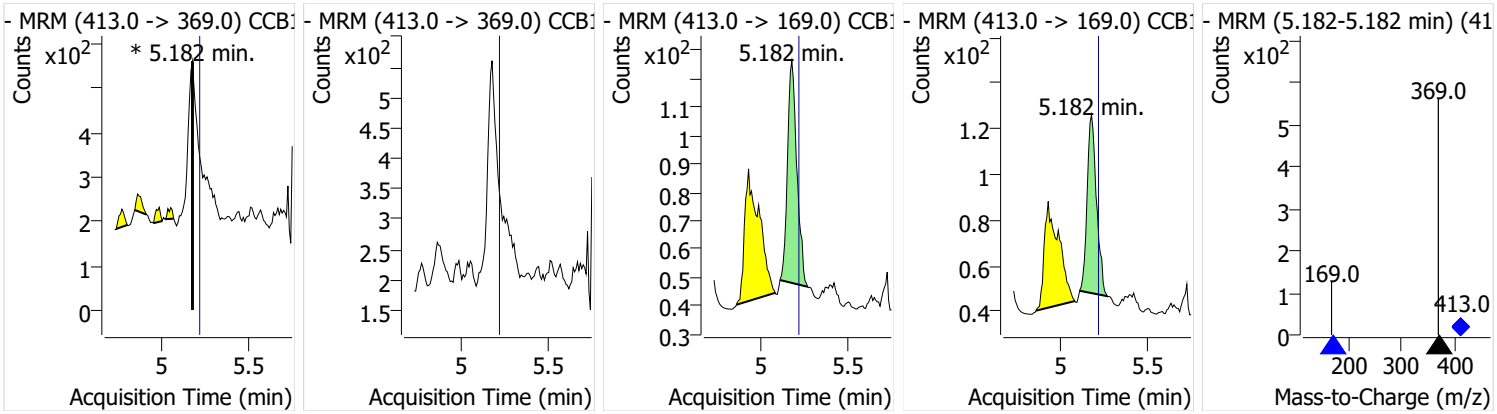


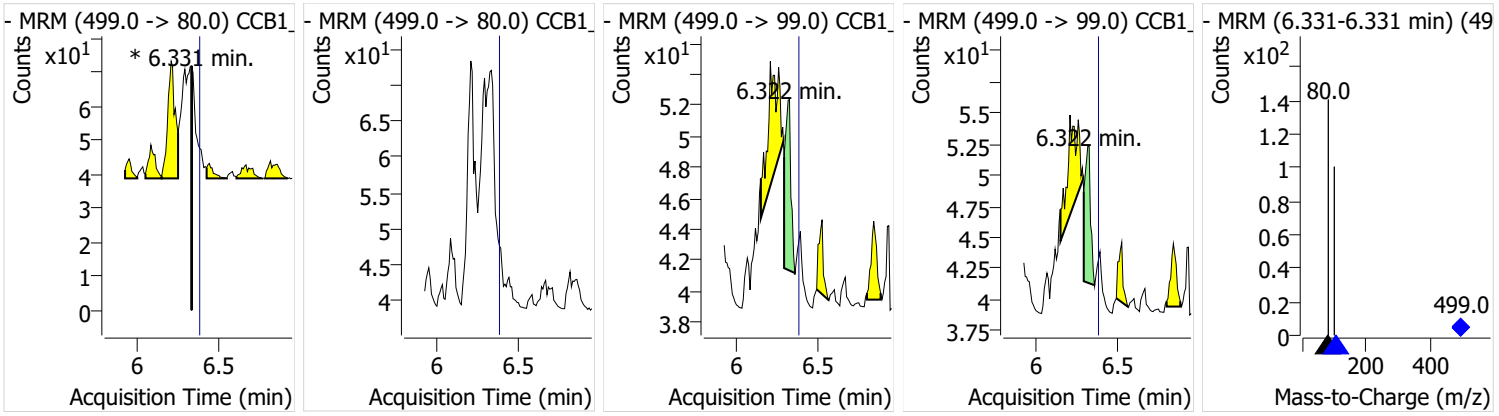
PFNS



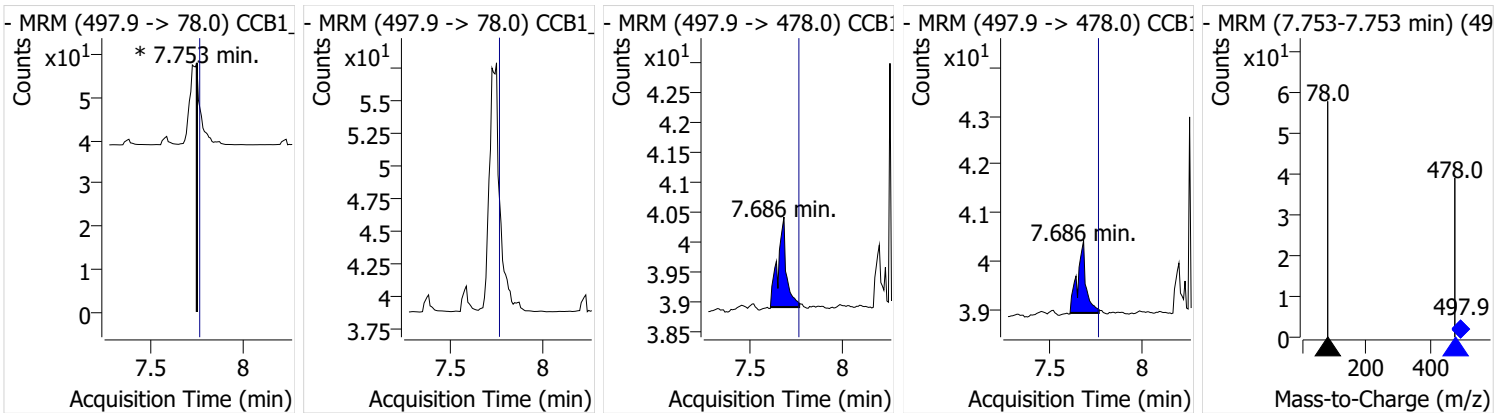
PFOA



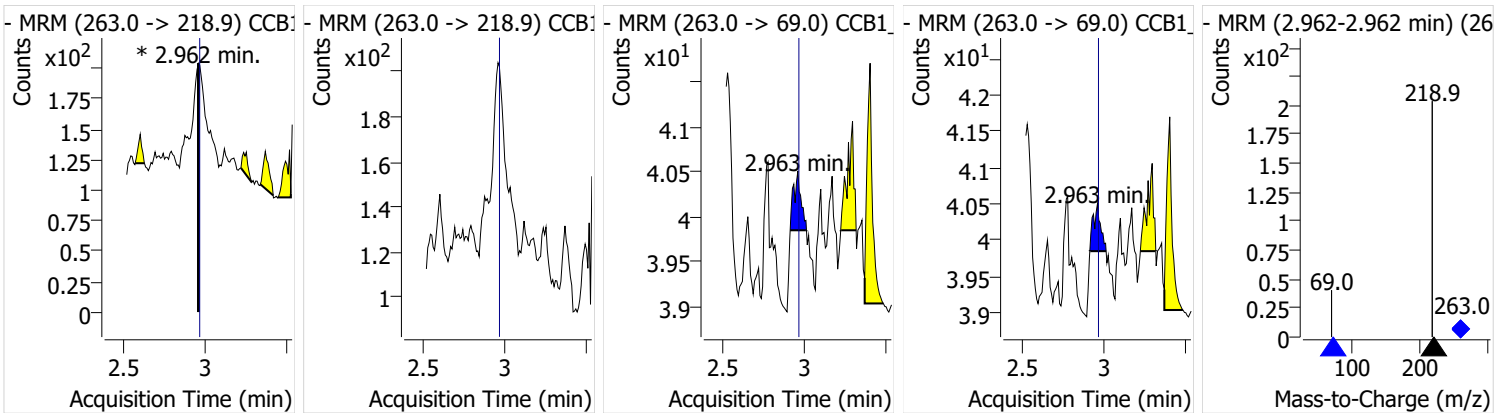
PFOS



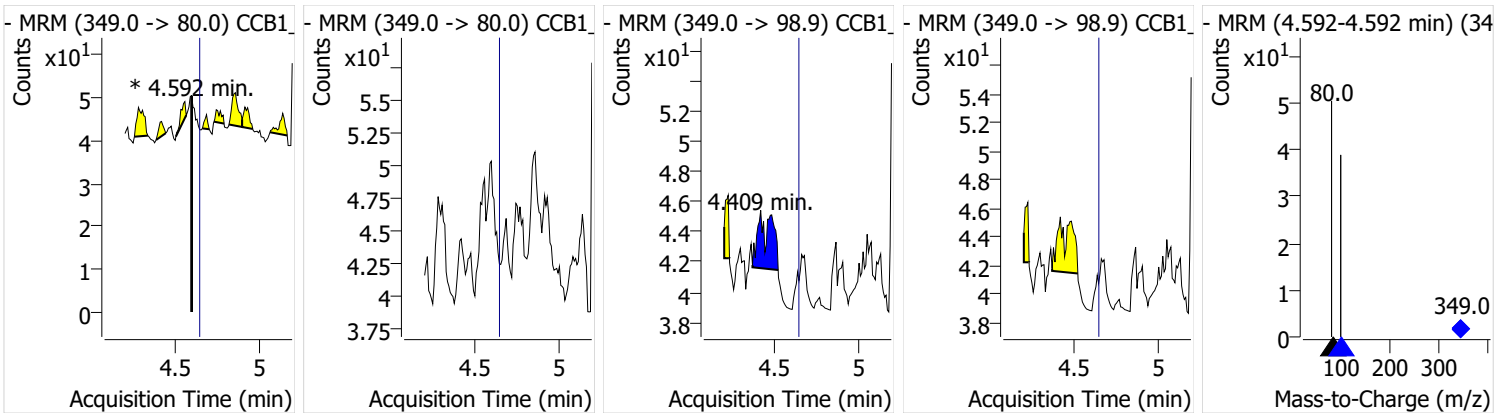
PFOSA



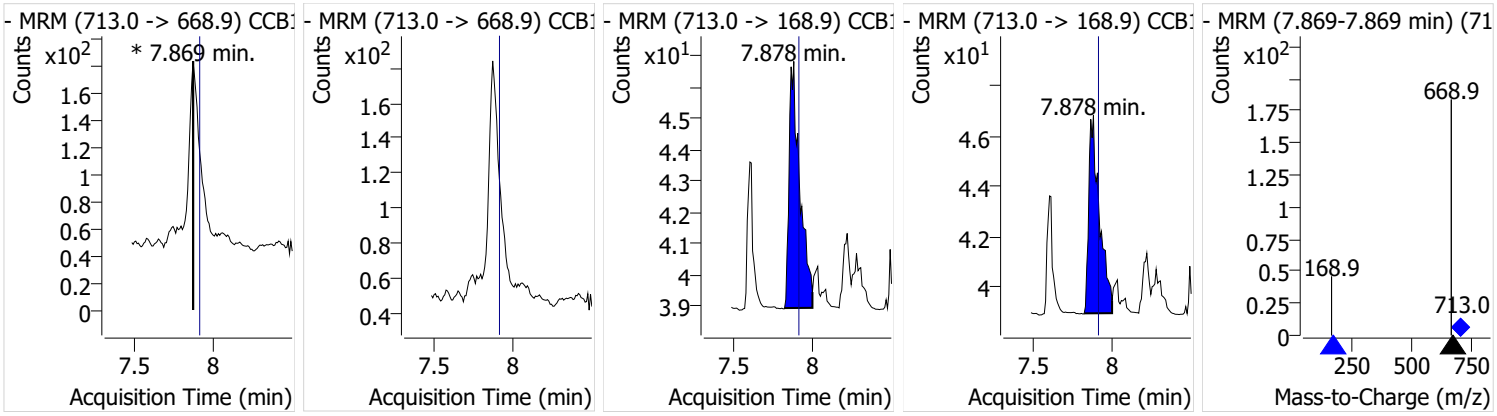
PFPeA



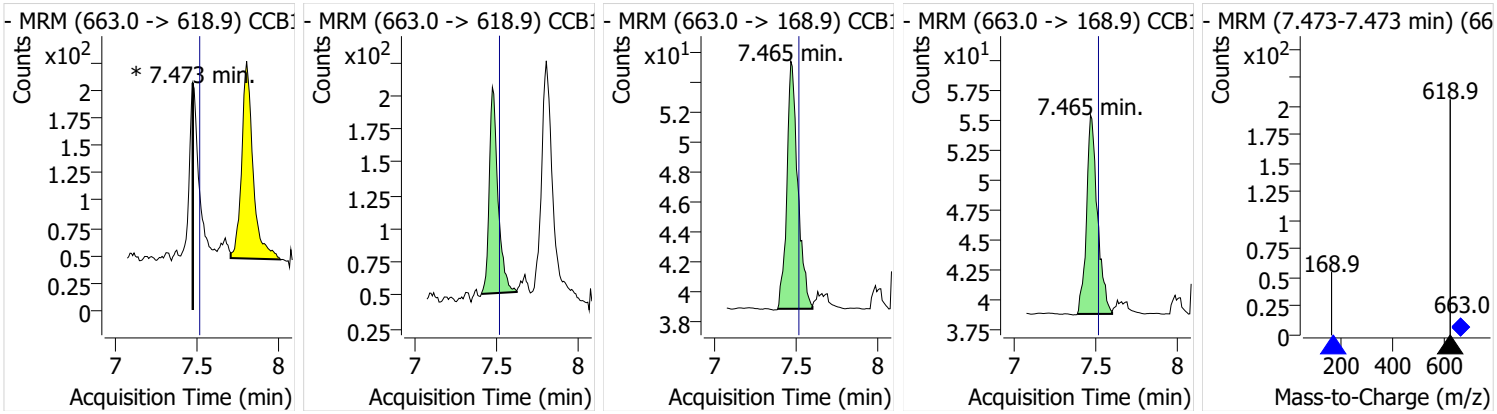
PFPeS



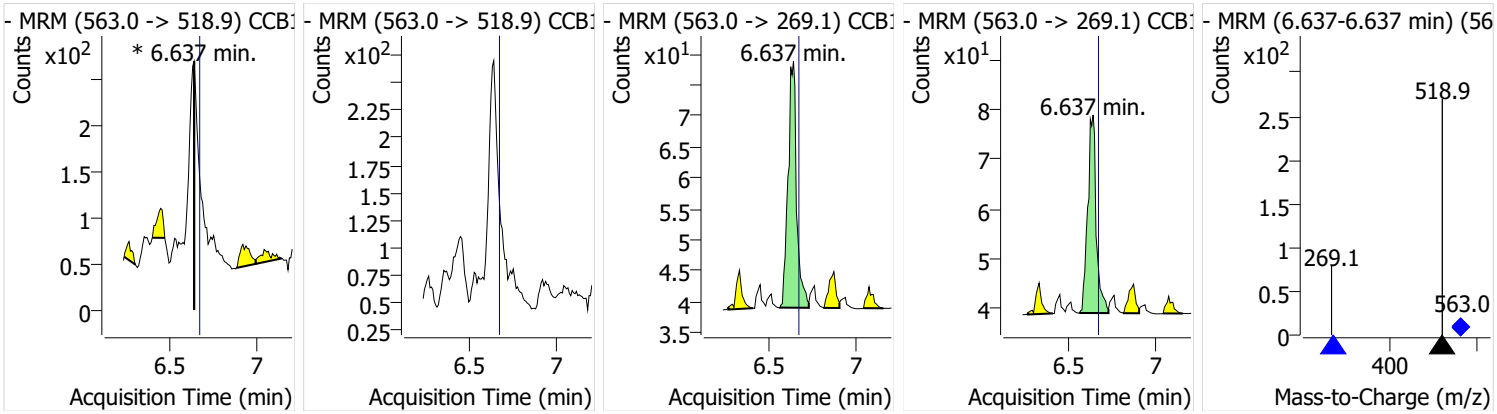
PFTeDA



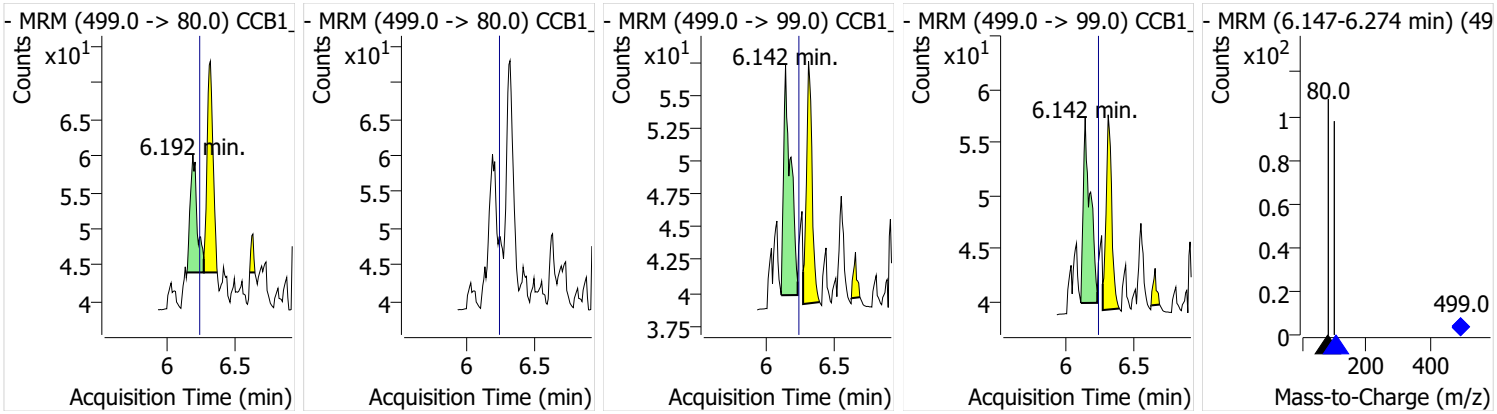
PFTrDA



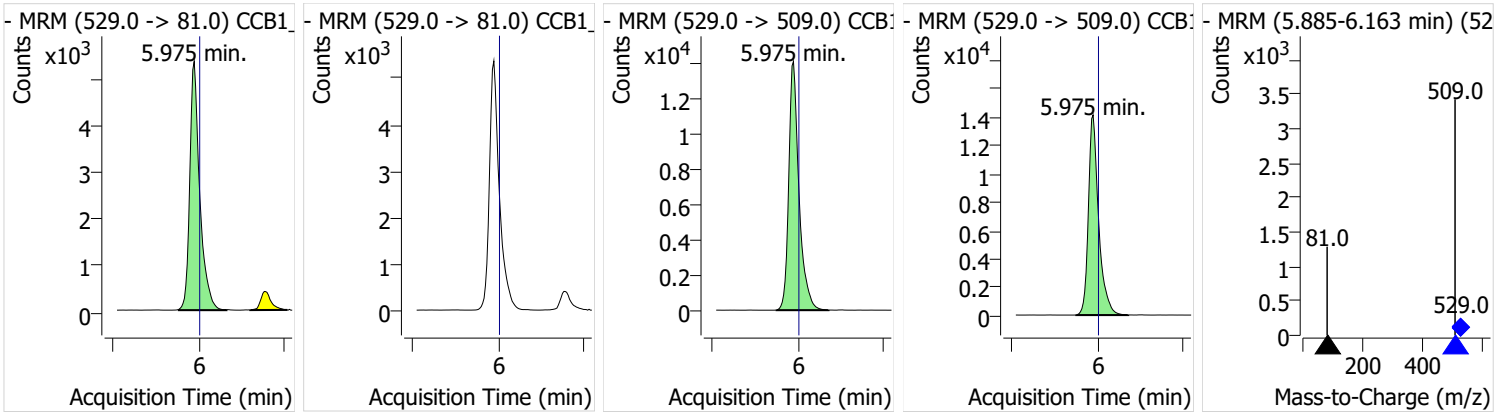
PFUnA



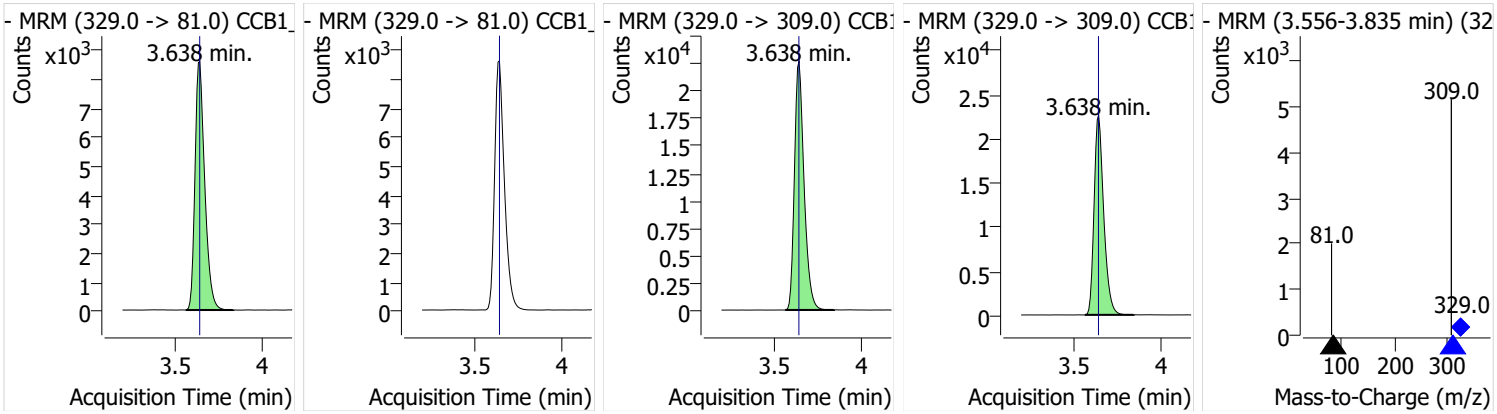
TDCA



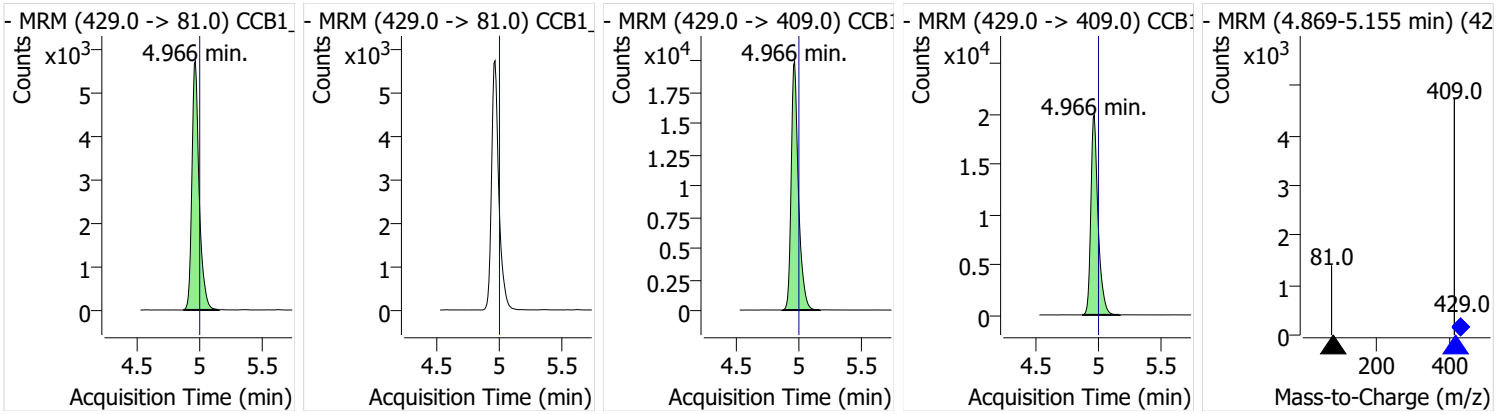
13C2-8:2FTS



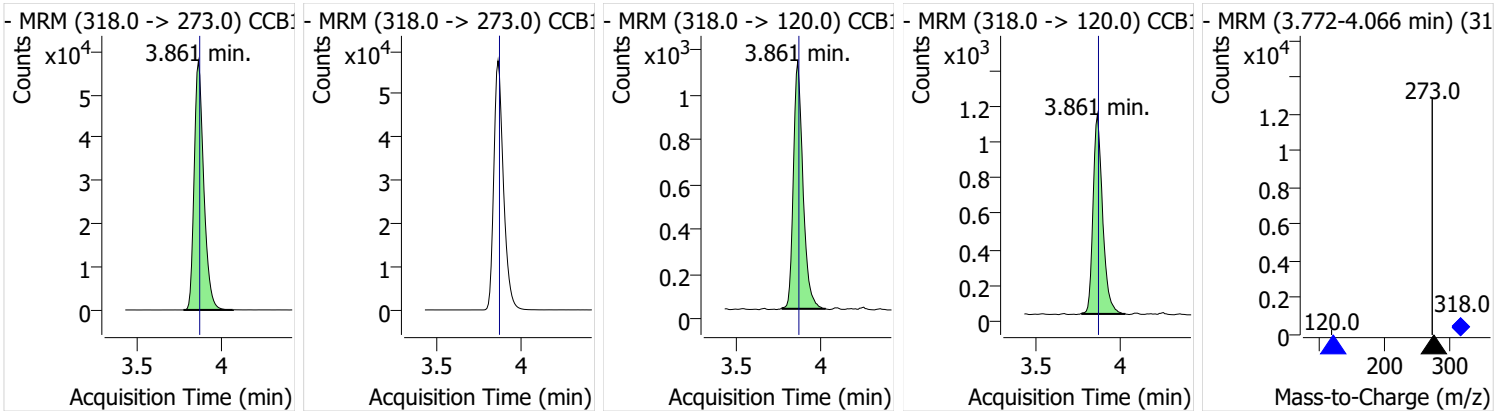
13C2-4:2FTS



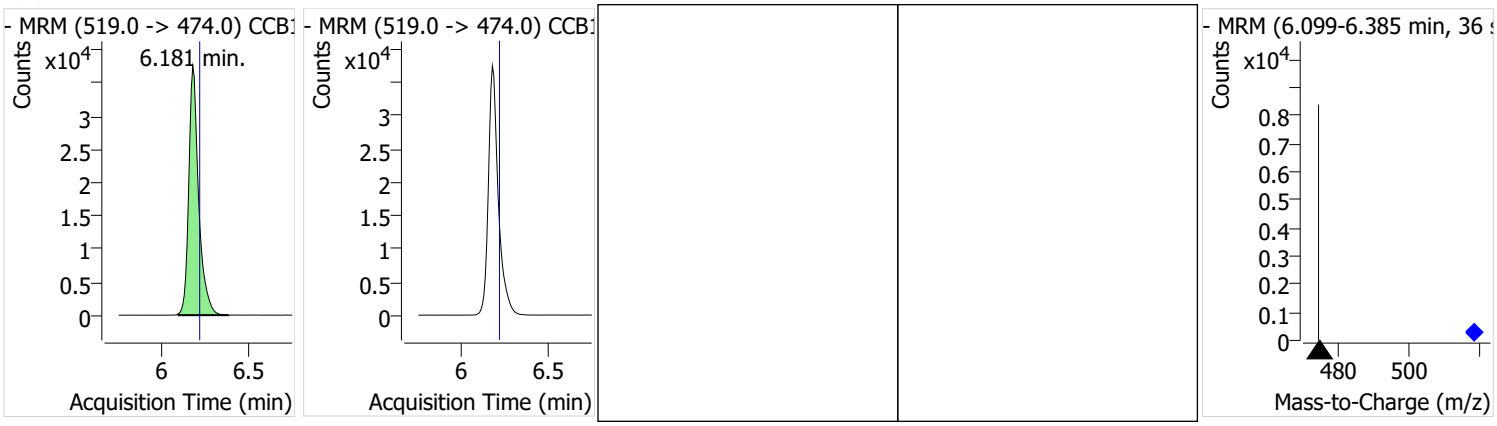
13C2-6:2FTS



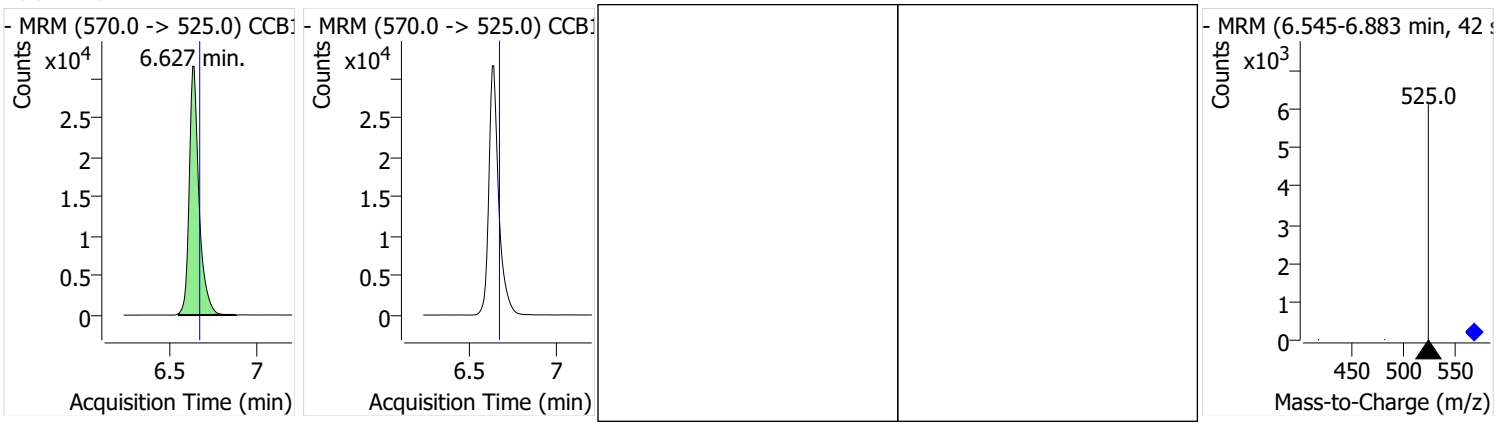
13C5-PFHxA



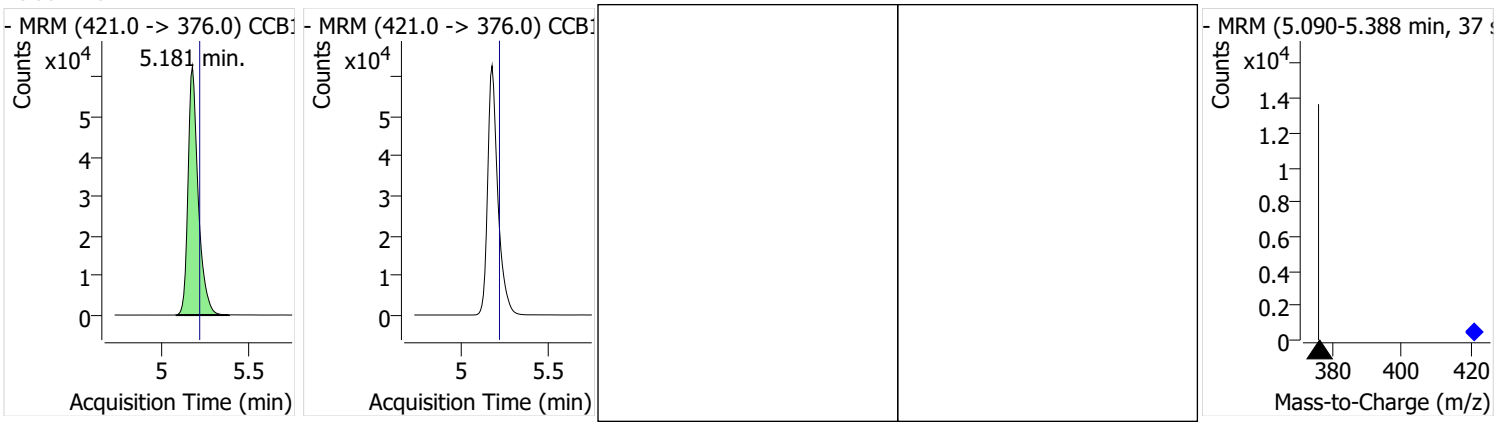
13C6-PFDA



13C7-PFUnA



13C8-PFOA



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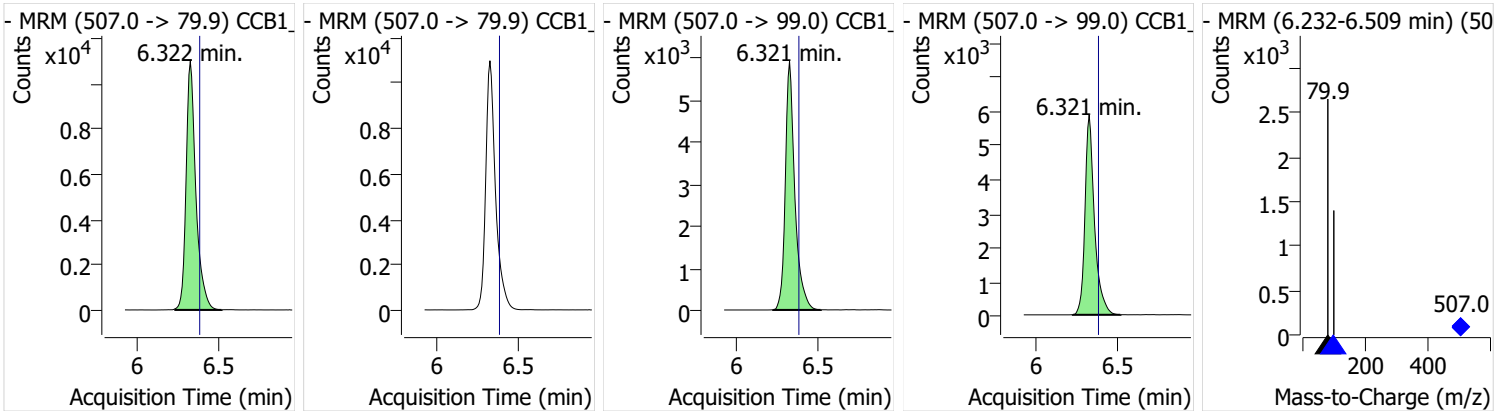

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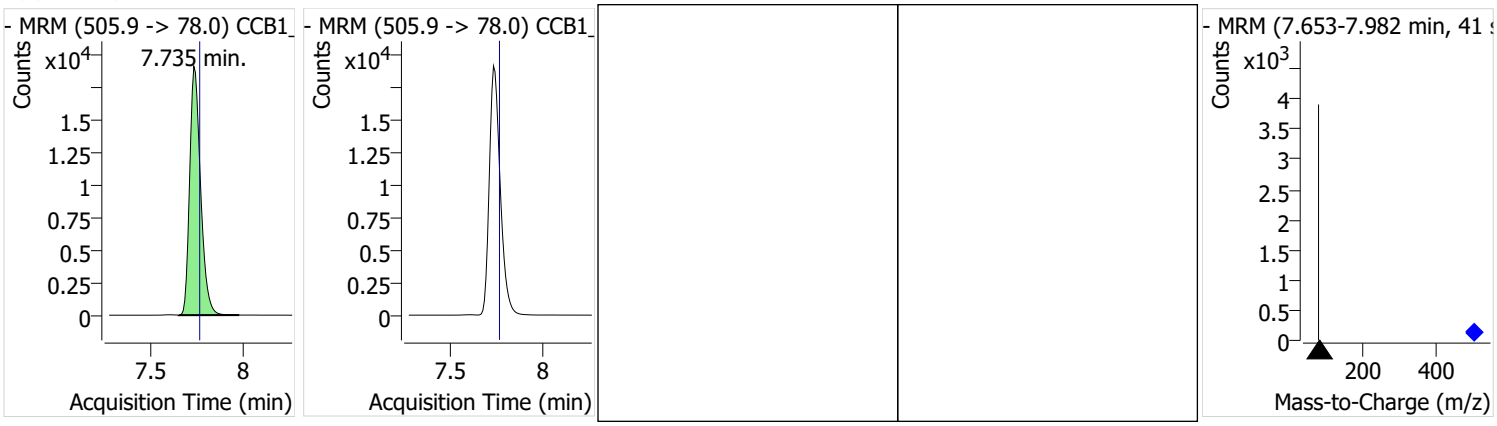
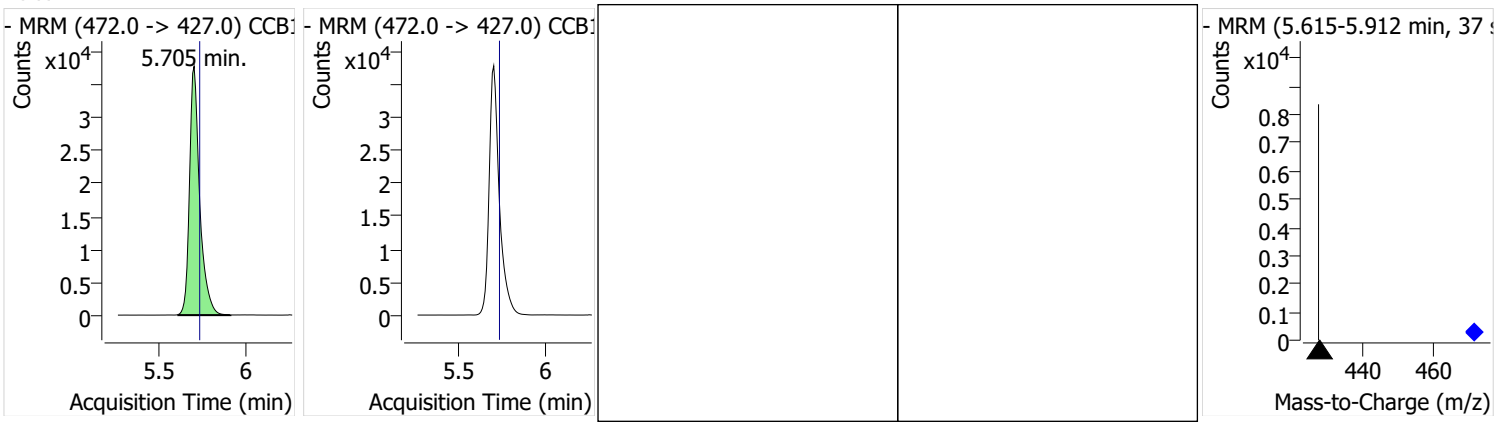
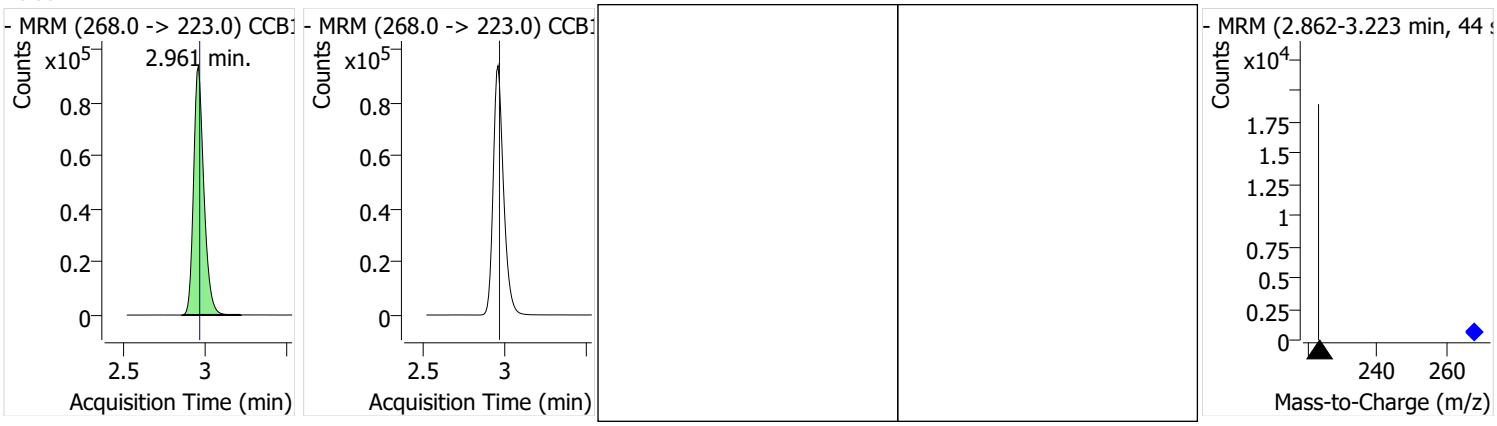


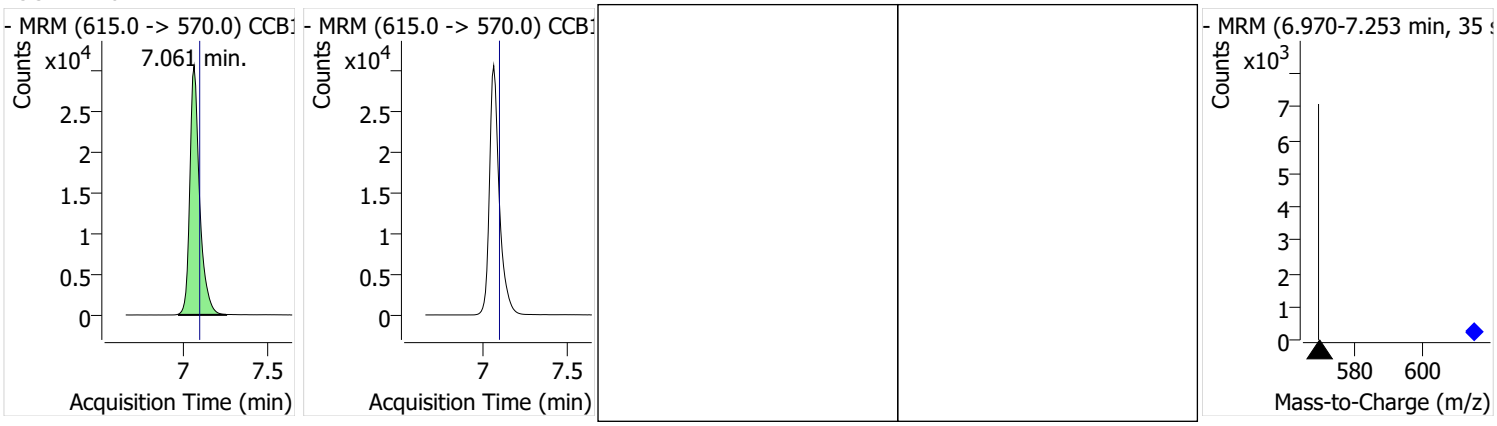
13C9-PFNA



13C5-PFPeA



13C2-PFDoA



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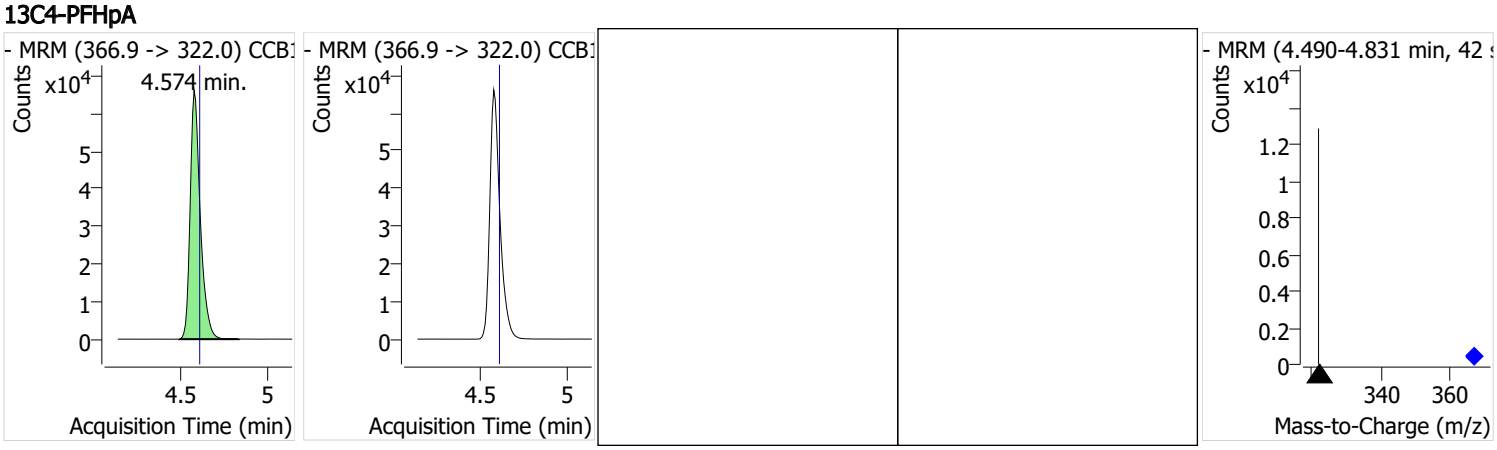
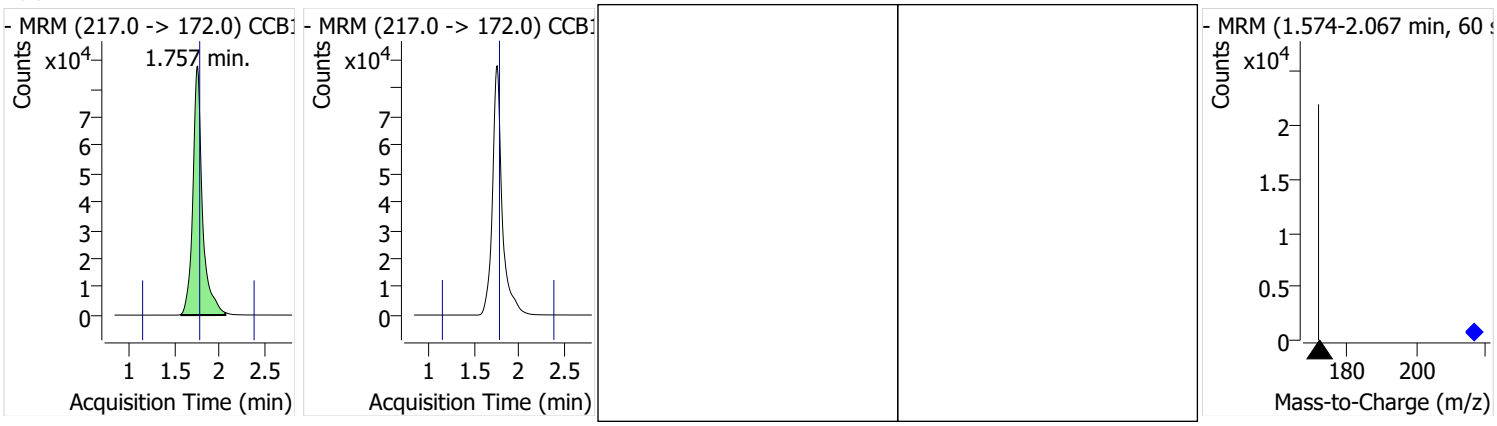
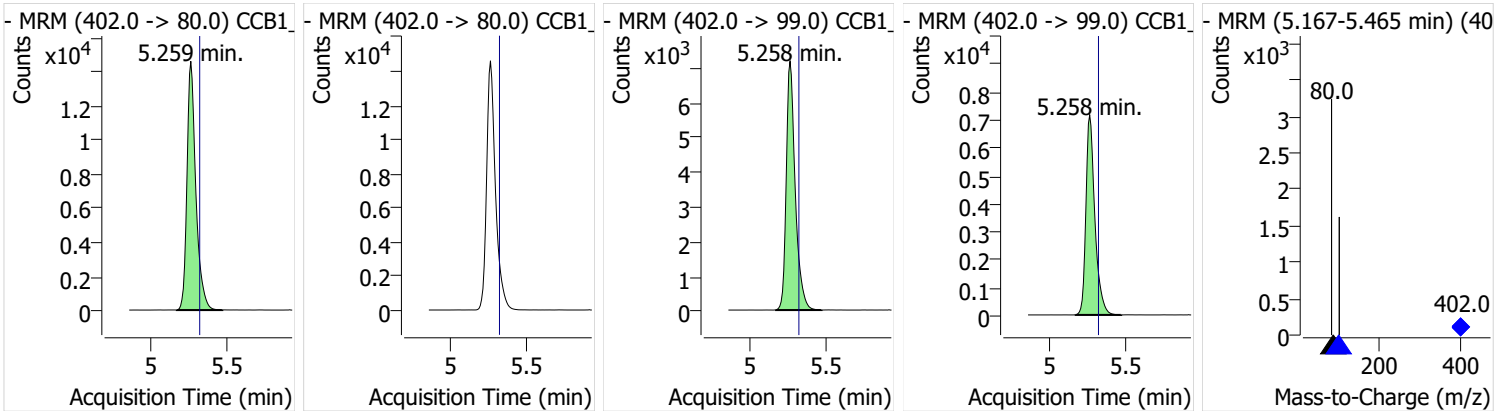


13C4-PFBA



13C3-PFHxS



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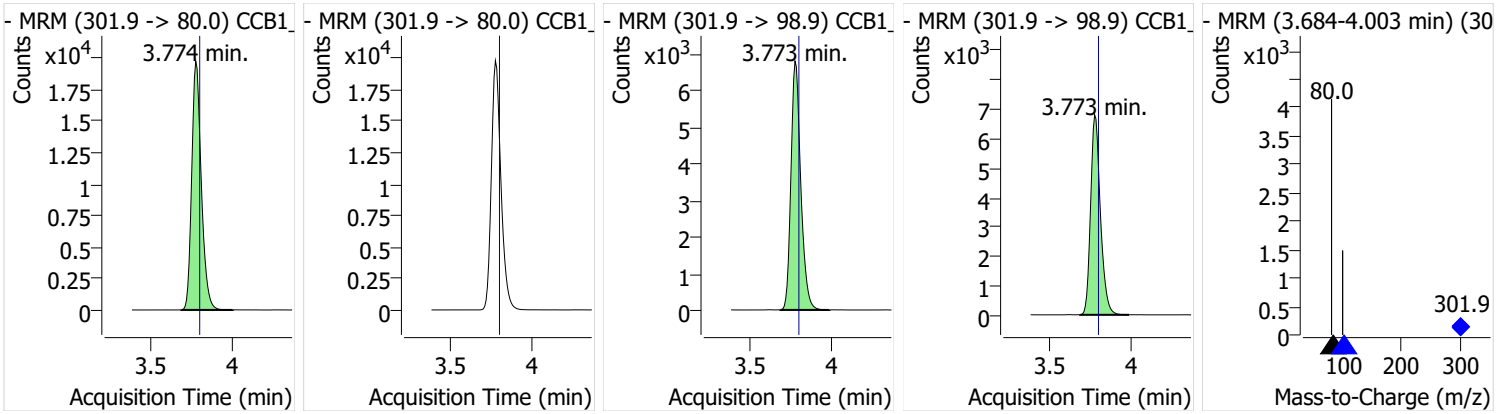
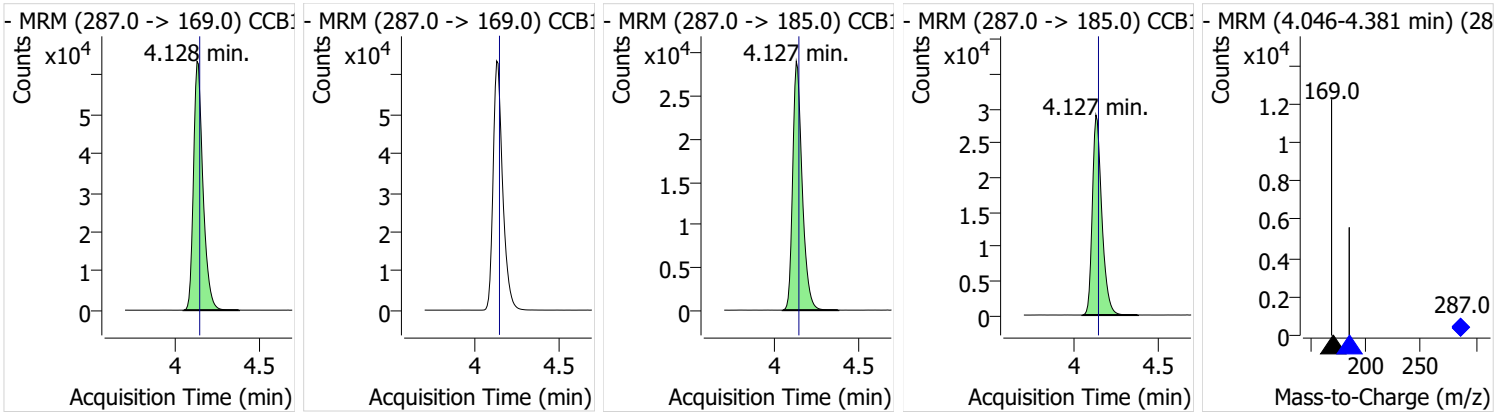
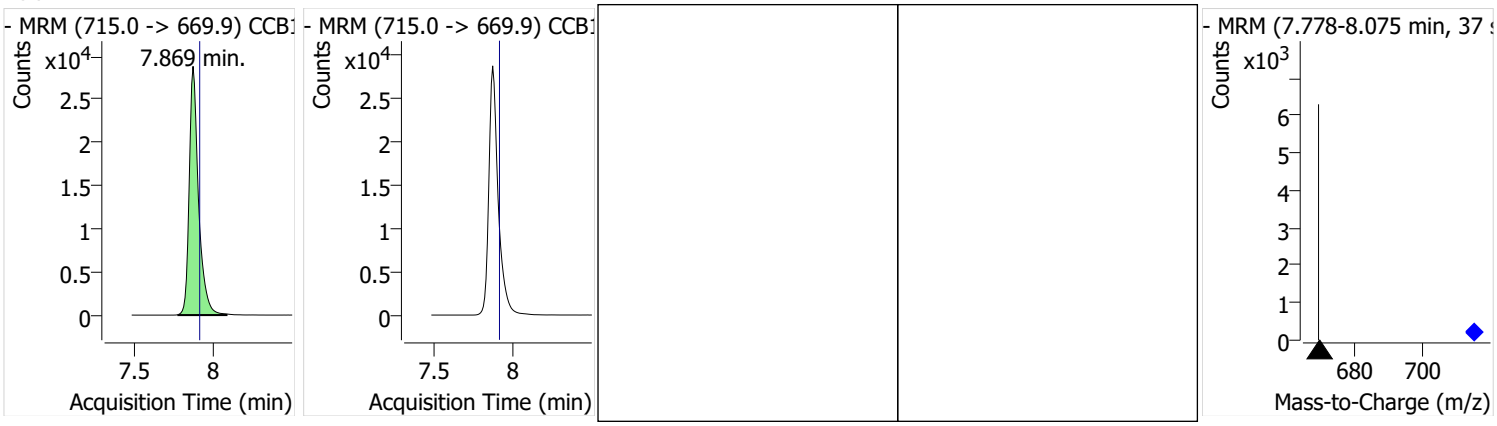


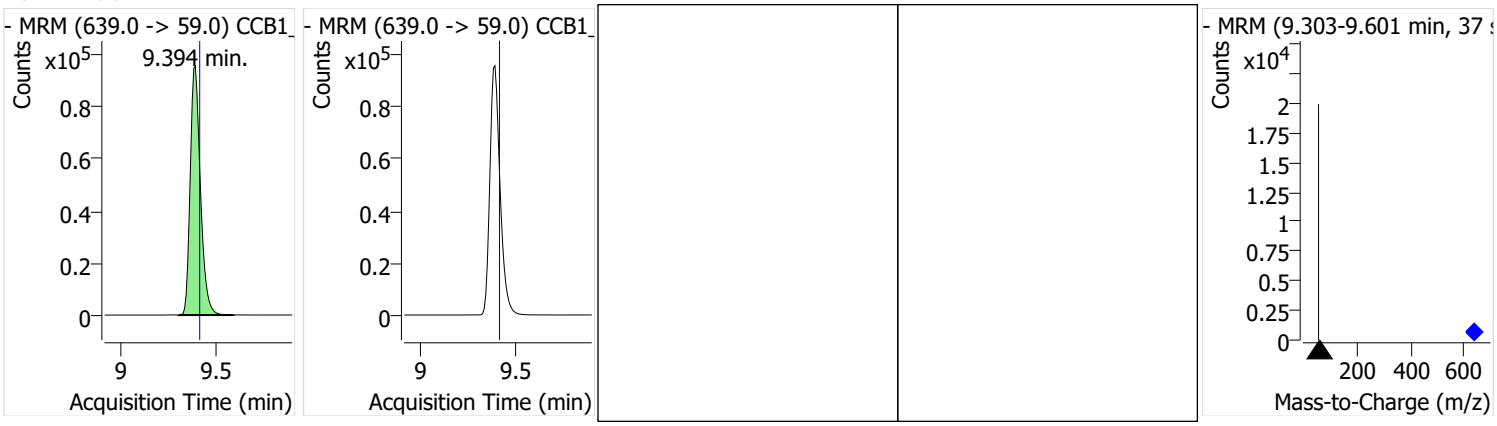
13C3-HFPODA



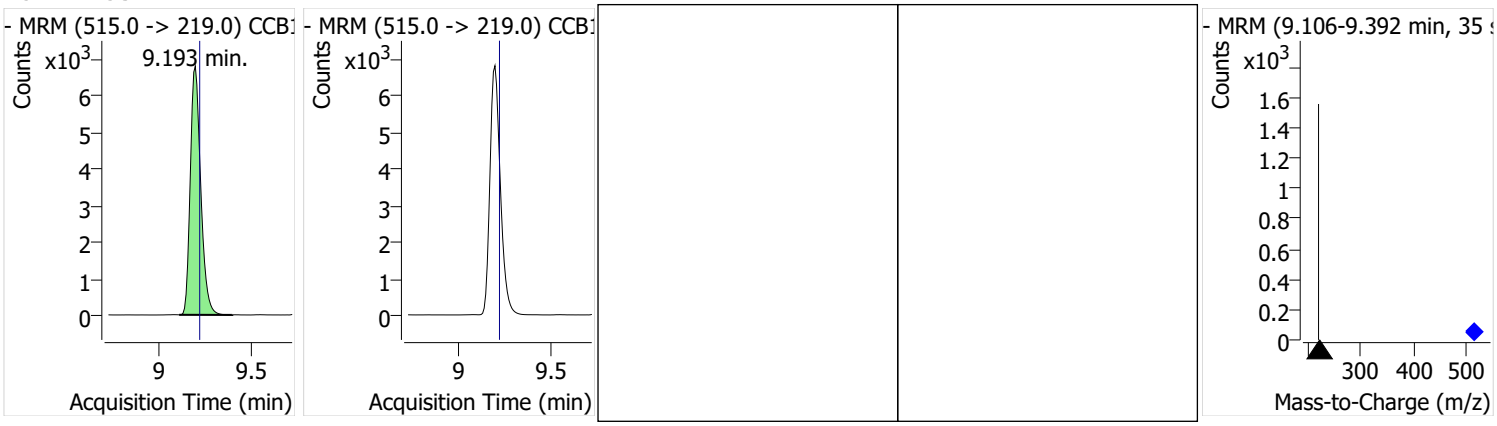
13C2-PFTeDA



D9-NEtFOSE



D3-NMeFOSA



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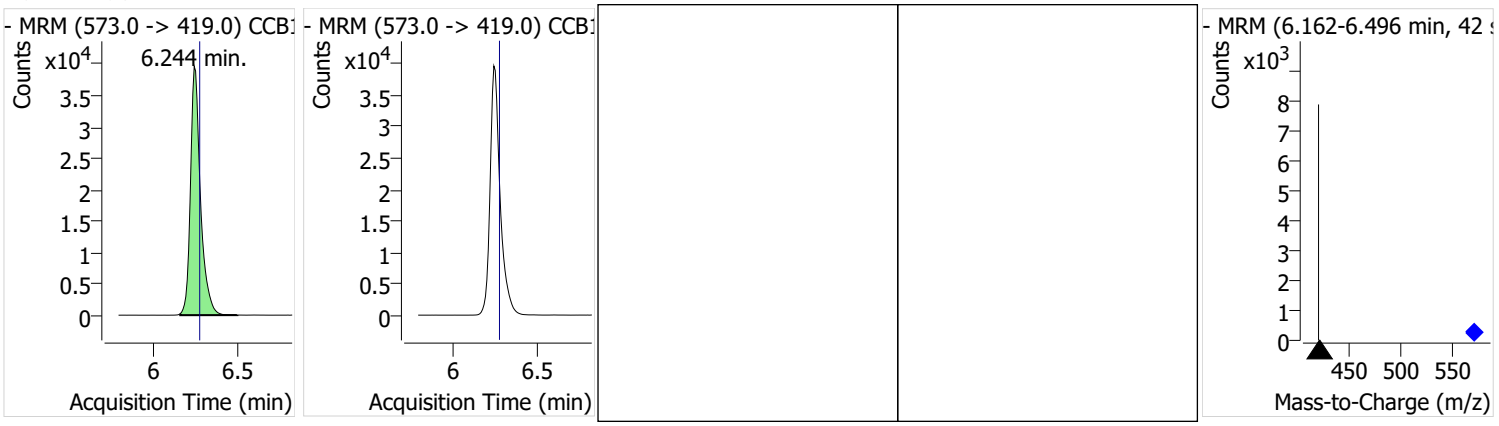

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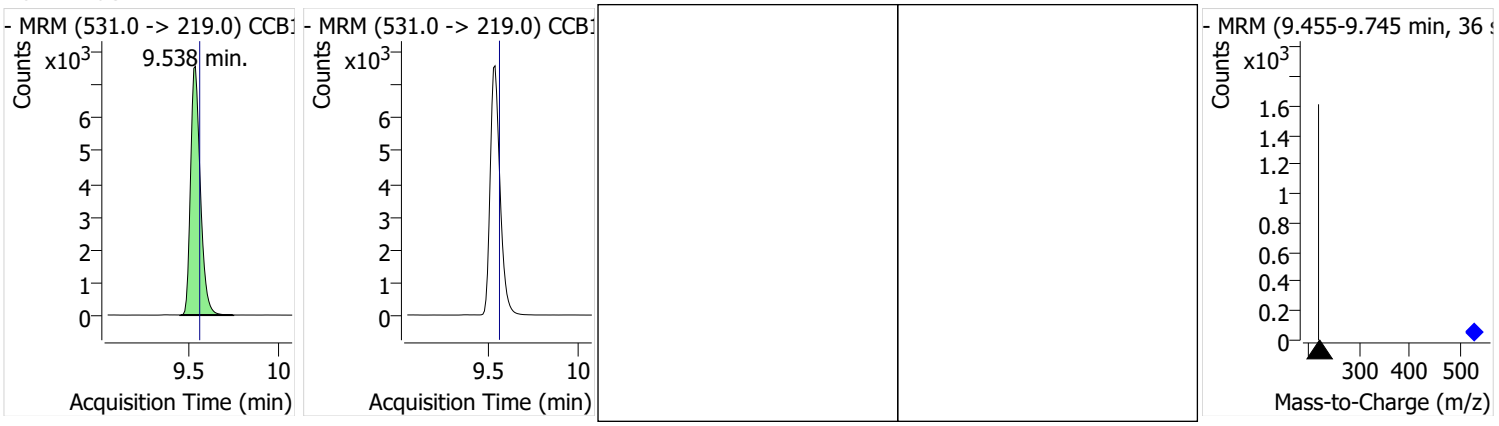

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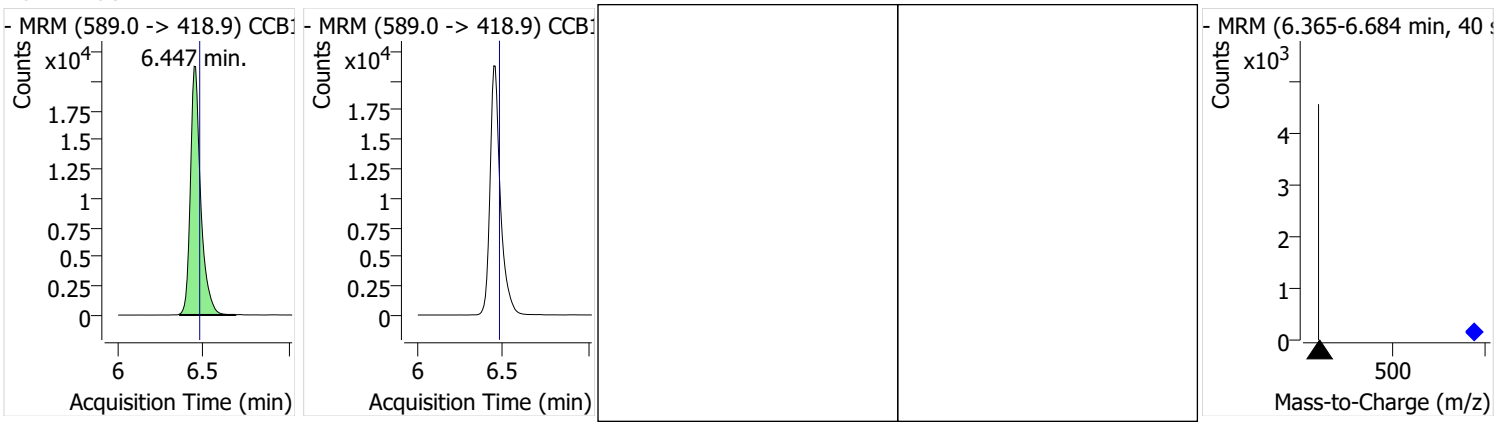
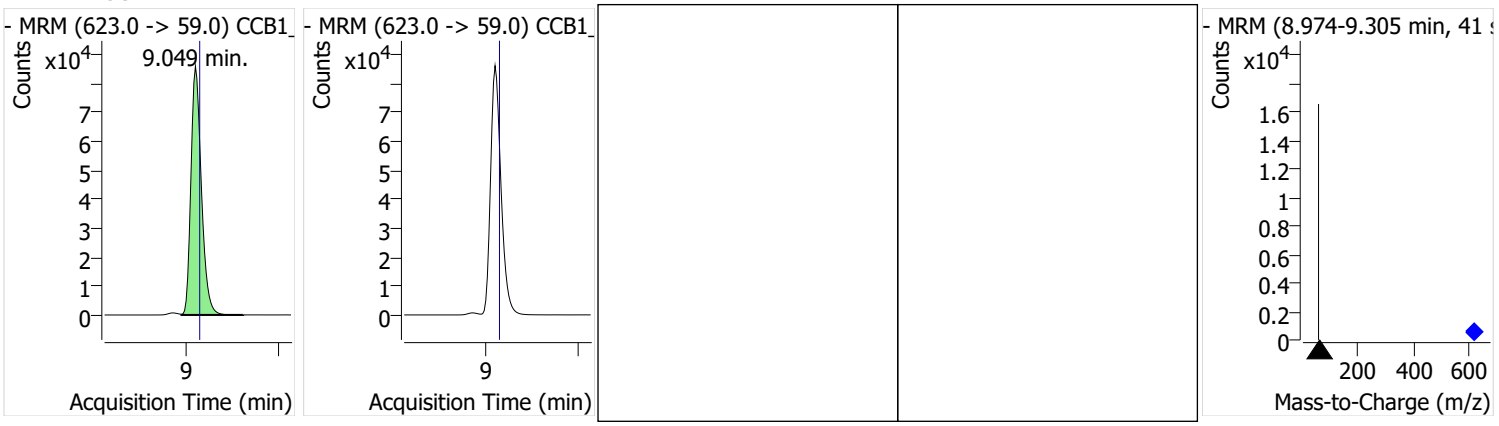


D7-NMeFOSE



1 - FORM I
ANALYSIS DATA SHEET

Calibration Blank

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	S104823-CCB2	File ID:	CCB7_1633_051724.d
Sampled:		Prepared:	05/17/24 00:00	Analyzed:	05/18/24 06:28
Solids:		Preparation:	B374213	Dilution:	
Batch:	S104823	Sequence:	S104823	Calibration:	2400518
Instrument:	QQQ6				
Column:	1				

CAS NO.	COMPOUND	CONC. (ng/mL)	MDL	RL	Q
375-22-4	Perfluorobutanoic acid (PFBA)	0.0	0.32	0.80	
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.0	0.046	0.40	
307-24-4	Perfluorohexanoic acid (PFHxA)	0.0	0.033	0.20	
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.0	0.015	0.20	
335-67-1	Perfluorooctanoic acid (PFOA)	0.0	0.031	0.20	
375-95-1	Perfluorononanoic acid (PFNA)	0.0	0.014	0.20	
335-76-2	Perfluorodecanoic acid (PFDA)	0.0	0.018	0.20	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.0	0.023	0.20	
307-55-1	Perfluorododecanoic acid (PFDoA)	0.0	0.022	0.20	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.0	0.022	0.20	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.0	0.020	0.20	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.0	0.021	0.20	
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.0	0.026	0.20	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.012	0.079	0.20	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.0	0.021	0.20	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.0	0.032	0.20	
68259-12-1	Perfluorononanesulfonic acid (PFNS)	0.0	0.022	0.20	
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.0	0.032	0.20	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	0.0	0.031	0.20	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (	0.0	0.070	0.80	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid ((	0.0	0.50	0.80	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (	0.0	0.093	0.80	
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.0	0.031	0.20	
31506-32-8	N-methyl perfluoroocatnesulfonamide (NMeF	0.0	0.025	0.20	
4151-50-2	N-ethyl perfluorooctanesulfonamide (NEtFOS	0.0	0.023	0.20	
2355-31-9	N-MeFOSAA (NMeFOSAA)	0.0	0.036	0.20	
2991-50-6	N-EtFOSAA (NEtFOSAA)	0.0	0.030	0.20	
24448-09-7	N-methylperfluorooctanesulfonamidoethanol(	0.0	0.22	2.0	
1691-99-2	N-ethylperfluorooctanesulfonamidoethanol (N	0.0	0.22	2.0	
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPC	0.0	0.051	0.80	

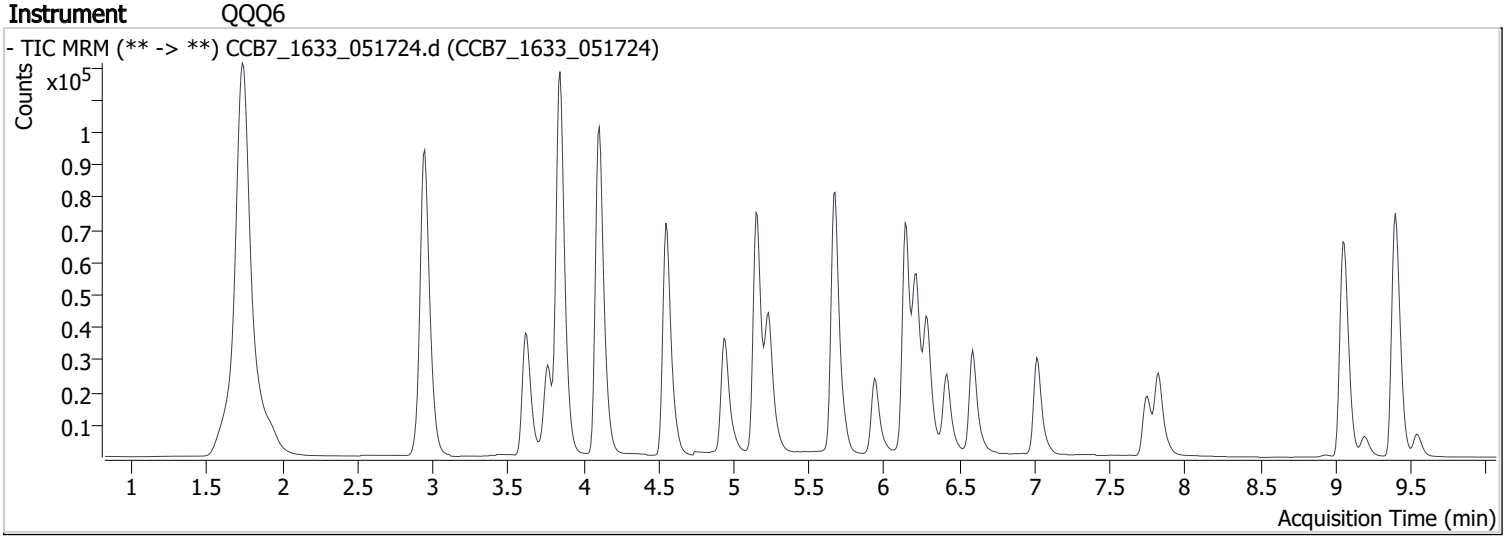
1 - FORM I
ANALYSIS DATA SHEET

Calibration Blank

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	S104823-CCB2	File ID:	CCB7_1633_051724.d
Sampled:		Prepared:	05/17/24 00:00	Analyzed:	05/18/24 06:28
Solids:		Preparation:	B374213	Dilution:	
Batch:	S104823	Sequence:	S104823	Calibration:	2400518
Instrument:	QQQ6				
Column:	1				

CAS NO.	COMPOUND	CONC. (ng/mL)	MDL	RL	Q
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADON/	0.0	0.060	0.80	
756426-58-1	9Cl-PF3ONS (F53B Minor)	0.0	0.058	0.80	
763051-92-9	11Cl-PF3OUdS (F53B Major)	0.0	0.089	0.80	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)(3:3	0.0	0.19	2.0	
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)	0.0	1.3	10	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)(7:3	0.0	1.5	10	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEE	0.0	0.032	0.40	
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.0	0.033	0.40	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	0.0	0.033	0.40	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.0	0.060	0.40	

Batch Path	R:\Data\MAY2024\051724\QuantResults\1633_CCVS_CORRECTED.batch.bin		
Analysis Time	5/20/2024 3:06 PM	**Last Calib Update**	5/9/2024 9:16 AM
Acq. Time	5/18/2024 6:28 AM	**Data File**	CCB7_1633_051724.d
Sample Type	Sample	**Sample Name**	CCB7_1633_051724
Dilution	1	**Acq. Method**	1633_ACQUISITION_01.m
Sample Comment	E#24E0458	**Processing method**	1633_050824.m
Instrument	QQQ6		



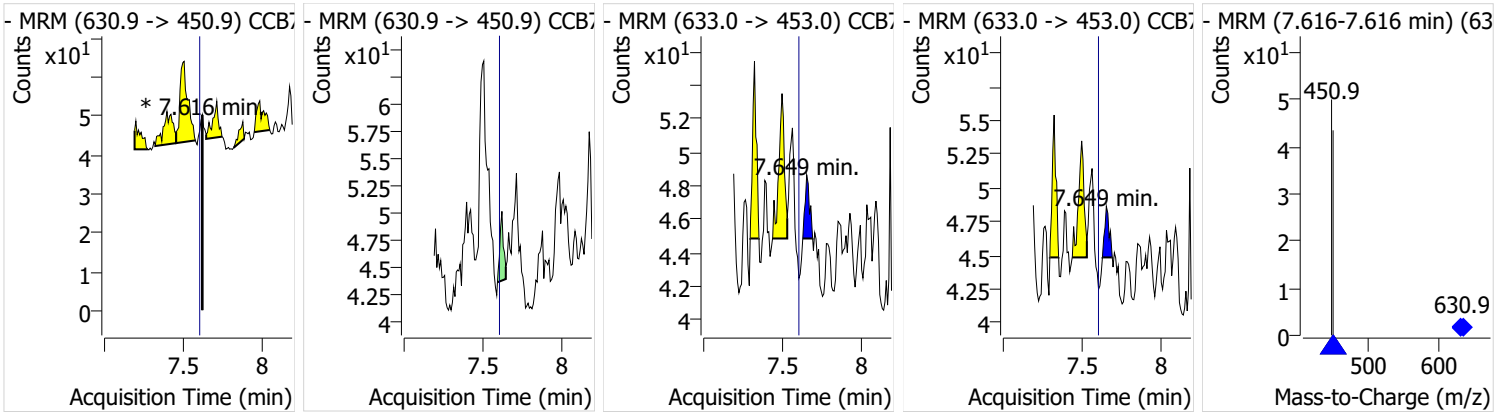
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
11Cl-PF3OUdS	7.616	0			13C3-HFPODA - ISTD	4.111	272595	-	ng/ml	✔	1	ALB 5/20/24
633.0 -> 453.0				*								
3:3FTCA	2.640	0			13C5-PFPeA - ISTD	2.945	426755	-	ng/ml	✔	1	ALB 5/20/24
241.0 -> 117.0				*								
4:2FTS	3.622	0			13C2-4:2FTS - ISTD	3.614	43414	-	ng/ml	✔	1	ALB 5/20/24
327.0 -> 80.9				*								
5:3FTCA	4.359	0			13C5-PFHxA - ISTD	3.844	233686	-	ng/ml	✔	1	ALB 5/20/24
341.0 -> 217.0				*								
6:2FTS	4.950	0			13C2-6:2FTS - ISTD	4.933	31654	-	ng/ml	✔	1	ALB 5/20/24
427.0 -> 80.9				*								
7:3FTCA	5.658	0			13C5-PFHxA - ISTD	3.844	233686	-	ng/ml	✔	1	ALB 5/20/24
441.0 -> 317.0				*								
8:2FTS	6.025	0			13C2-8:2FTS - ISTD	5.934	24822	-	ng/ml	✔	1	ALB 5/20/24
527.0 -> 81.0				*								
9Cl-PF3ONS	6.622	0			13C3-HFPODA - ISTD	4.111	272595	-	ng/ml	✔	1	ALB 5/20/24
533.0 -> 353.0				*								
ADONA	4.739	0			13C3-HFPODA - ISTD	4.111	272595	-	ng/ml	✔	1	ALB 5/20/24
377.0 -> 85.1				*								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA	4.129	0			13C3-HFPODA - ISTD	4.111	272595	-	ng/ml	✔	1	ALB 5/20/24
285.0 -> 184.9				*								
NEtFOSA	9.556	0			D5-NEtFOSA - ISTD	9.538	25451	-	ng/ml	✔	1	ALB 5/20/24
526.0 -> 219.0				*								
NEtFOSAA	6.431	0			D5-NEtFOSAA - ISTD	6.414	93825	-	ng/ml	✔	1	ALB 5/20/24
584.0 -> 526.0				*								
NEtFOSE	9.445	0			D9-NEtFOSE - ISTD	9.394	299053	-	ng/ml	✔	1	ALB 5/20/24
NFDHA	3.767	0			13C5-PFHxA - ISTD	3.844	233686	-	ng/ml	✔	1	ALB 5/20/24
295.0 -> 85.0				*								
NMeFOSA	9.211	0			D3-NMeFOSA - ISTD	9.193	23383	-	ng/ml	✔	1	ALB 5/20/24
512.0 -> 219.0				*								
NMeFOSAA	6.171	0			D3-NMeFOSAA - ISTD	6.211	184477	-	ng/ml	✔	1	ALB 5/20/24
570.0 -> 418.9				*								
NMeFOSE	9.082	0			D7-NMeFOSE - ISTD	9.049	269608	-	ng/ml	✔	1	ALB 5/20/24
PFBA	1.721	0			13C4-PFBA - ISTD	1.732	689048	-	ng/ml	✔	1	ALB 5/20/24
PFBS	3.774	0			13C3-PFBS - ISTD	3.766	84610	-	ng/ml	✔	1	ALB 5/20/24
298.9 -> 98.8				*								
PFDA	6.263	0			13C6-PFDA - ISTD	6.140	140941	-	ng/ml	✔	1	ALB 5/20/24
513.0 -> 219.0				*								
PFDoA	7.004	0			13C2-PFDoA - ISTD	7.011	118487	-	ng/ml	✔	1	ALB 5/20/24
613.0 -> 319.0				*								
PFDoS	8.103	0			13C8-PFOS - ISTD	6.289	44986	-	ng/ml	✔	1	ALB 5/20/24
698.9 -> 99.0				*								
PFDS	7.213	0			13C8-PFOS - ISTD	6.289	44986	-	ng/ml	✔	1	ALB 5/20/24
599.0 -> 98.8				*								
PFEESA	4.189	0			13C5-PFHxA - ISTD	3.844	233686	-	ng/ml	✔	1	ALB 5/20/24
315.0 -> 83.0				*								
PFHpA	4.566	0			13C4-PFHpA - ISTD	4.549	280477	-	ng/ml	✔	1	ALB 5/20/24
362.9 -> 169.0				*								
PFHpS	5.906	0			13C8-PFOS - ISTD	6.289	44986	-	ng/ml	✔	1	ALB 5/20/24
449.0 -> 98.8				*								

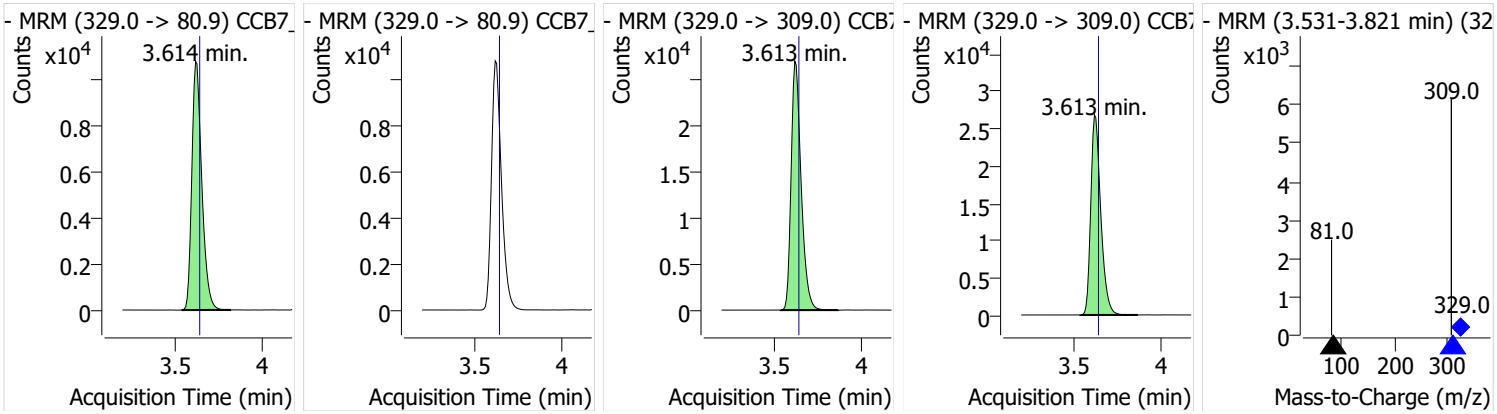
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFHxA	3.847	0			13C5-PFHxA - ISTD	3.844	233686	-	ng/ml	✔	1	ALB 5/20/24
313.0 -> 118.9				*								
PFHxS	5.243	316	89.43		13C3-PFHxS - ISTD	5.234	58262	0.0120	ng/ml	✔	3	ALB 5/20/24
398.9 -> 99.0			28.22	28.4								
PFMBA	3.263	0			13C5-PFPeA - ISTD	2.945	426755	-	ng/ml	✔	1	ALB 5/20/24
PFMPA	2.325	0			13C5-PFPeA - ISTD	2.945	426755	-	ng/ml	✔	1	ALB 5/20/24
PFNA	5.673	228	6.29		13C9-PFNA - ISTD	5.672	0	-	ng/ml			
463.0 -> 219.0			559.94	*50.2								
PFNS	7.042	0			13C8-PFOS - ISTD	6.289	44986	-	ng/ml	✔	1	ALB 5/20/24
549.0 -> 98.8				*								
PFOA	5.149	0			13C8-PFOA - ISTD	5.148	257710	-	ng/ml	✔	1	ALB 5/20/24
413.0 -> 169.0				*								
PFOS	6.290	0			13C8-PFOS - ISTD	6.289	44986	-	ng/ml	✔	1	ALB 5/20/24
499.0 -> 99.0				*								
PFOSA	7.736	0			13C8-PFOSA - ISTD	7.751	76506	-	ng/ml	✔	1	ALB 5/20/24
497.9 -> 478.0				*								
PFPeA	2.946	0			13C5-PFPeA - ISTD	2.945	426755	-	ng/ml	✔	1	ALB 5/20/24
263.0 -> 69.0				*								
PFPeS	4.625	0			13C3-PFHxS - ISTD	5.234	58262	-	ng/ml	✔	1	ALB 5/20/24
349.0 -> 98.9				*								
PFTeDA	7.944	0			13C2-PFTeDA - ISTD	7.819	99201	-	ng/ml	✔	1	ALB 5/20/24
713.0 -> 168.9				*								
PFTrDA	7.432	0			13C2-PFDoA - ISTD	7.011	118487	-	ng/ml	✔	1	ALB 5/20/24
663.0 -> 168.9				*								
PFUnA	6.711	84	6.12		13C7-PFUnA - ISTD	6.586	0	-	ng/ml			
563.0 -> 269.1			101.38	10.2								
TDCA	6.274	86	11.66					-	ng/ml			
499.0 -> 99.0			16.74	34.9								
13C2-8:2FTS	5.934	24822	4678.85		18O2-PFHxS	5.233	54886	6.8803	ng/ml			
529.0 -> 509.0			20988.98	272.8								
13C2-4:2FTS	3.614	43414	10715.77		18O2-PFHxS	5.233	54886	6.6097	ng/ml			
329.0 -> 309.0			32731.41	249.9								
13C2-6:2FTS	4.933	31654	5299.55		18O2-PFHxS	5.233	54886	7.1320	ng/ml			

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
429.0 -> 409.0			52731.90	337.3								
13C5-PFHxA	3.844	233686	59764.30		13C2-PFHxA	3.845	215453	2.6321	ng/ml			
318.0 -> 120.0			597.58	1.9								
13C6-PFDA	6.140	140941	10955.06		13C2-PFDA	6.140	134481	1.3283	ng/ml			
13C7-PFUnA	6.586	122260	16783.37		13C2-PFDA	6.140	134481	1.4232	ng/ml			
13C8-PFOA	5.148	257710	146849.83		13C4-PFOA	5.148	35834	2.6233	ng/ml			
13C8-PFOS	6.289	44986	9872.29		13C4-PFOS	6.290	46772	2.6754	ng/ml			
507.0 -> 99.0			3972.07	51.6								
13C8-PFOSA	7.751	76506	597237.97		13C4-PFOS	6.290	46772	2.5869	ng/ml			
13C9-PFNA	5.672	152316	10887.46		13C5-PFNA	5.673	166614	1.3406	ng/ml			
13C5-PFPeA	2.945	426755	9913.84		13C2-PFHxA	3.845	215453	5.3634	ng/ml			
13C2-PFDoA	7.011	118487	8702.32		13C2-PFDA	6.140	134481	1.3364	ng/ml			
13C4-PFHpA	4.549	280477	37620.27		13C2-PFHxA	3.845	215453	2.8242	ng/ml			
13C4-PFBA	1.732	689048	106591.55		13C3-PFBA	1.735	303171	10.4683	ng/ml			
13C3-PFHxS	5.234	58262	8776.69		18O2-PFHxS	5.233	54886	2.5993	ng/ml			
402.0 -> 99.0			6722.73	51.0								
13C3-PFBS	3.766	84610	16860.89		18O2-PFHxS	5.233	54886	2.8522	ng/ml			
301.9 -> 98.9			10459.60	35.8								
13C3-HFPODA	4.111	272595	18821.41		13C2-PFHxA	3.845	215453	10.9767	ng/ml			
287.0 -> 185.0			16267.55	45.8								
13C2-PFTeDA	7.819	99201	5647.53		13C2-PFDA	6.140	134481	1.2994	ng/ml			
D9-NEtFOSE	9.394	299053	51674.40		13C4-PFOS	6.290	46772	24.3168	ng/ml			
D3-NMeFOSA	9.193	23383	17697.70		13C4-PFOS	6.290	46772	2.4651	ng/ml			
D3-NMeFOSAA	6.211	184477	15427.29		13C4-PFOS	6.290	46772	6.0885	ng/ml			
D5-NEtFOSA	9.538	25451	7835.64		13C4-PFOS	6.290	46772	2.5723	ng/ml			
D5-NEtFOSAA	6.414	93825	11611.04		13C4-PFOS	6.290	46772	6.1196	ng/ml			
D7-NMeFOSE	9.049	269608	132301.60		13C4-PFOS	6.290	46772	23.4580	ng/ml			

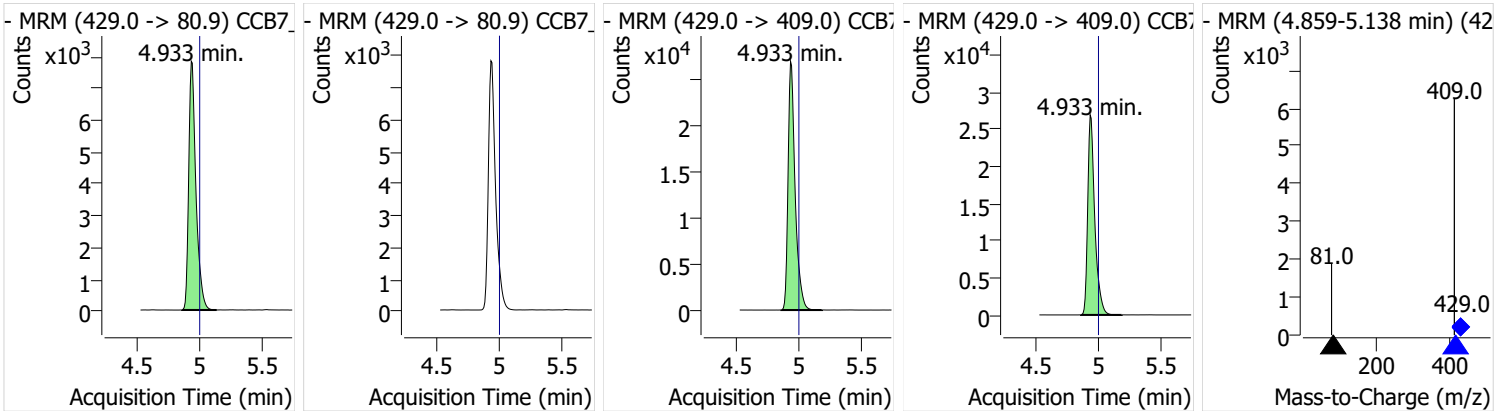
11Cl-PF3OUdS



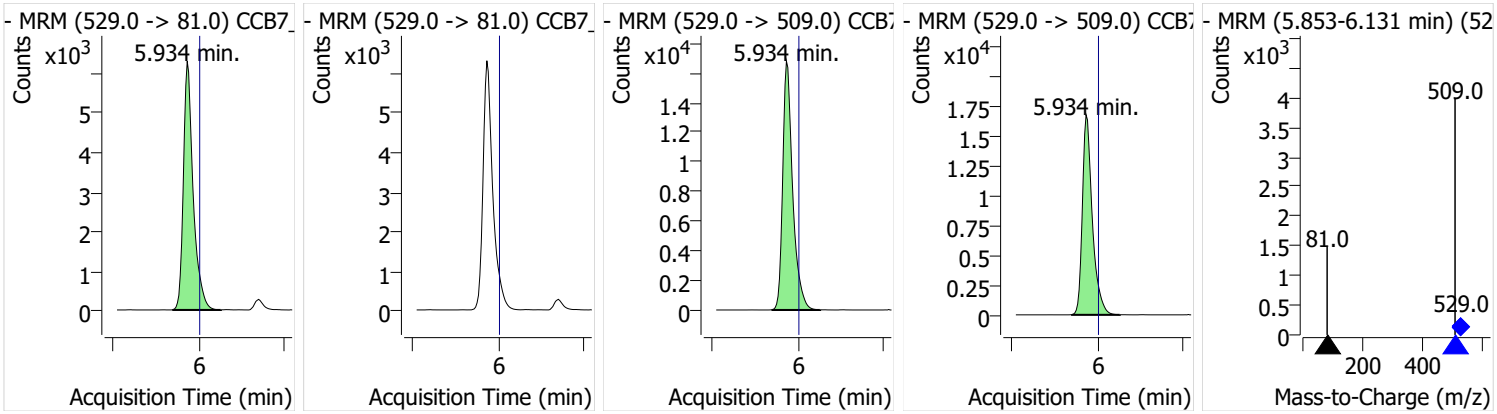
13C2-4:2FTS - ISTD



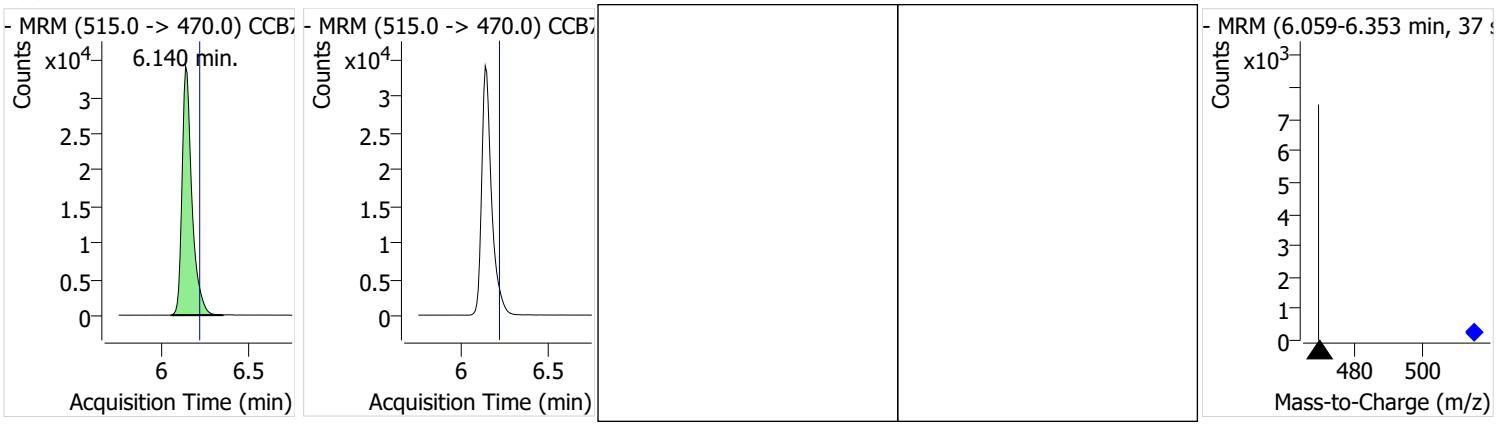
13C2-6:2FTS - ISTD



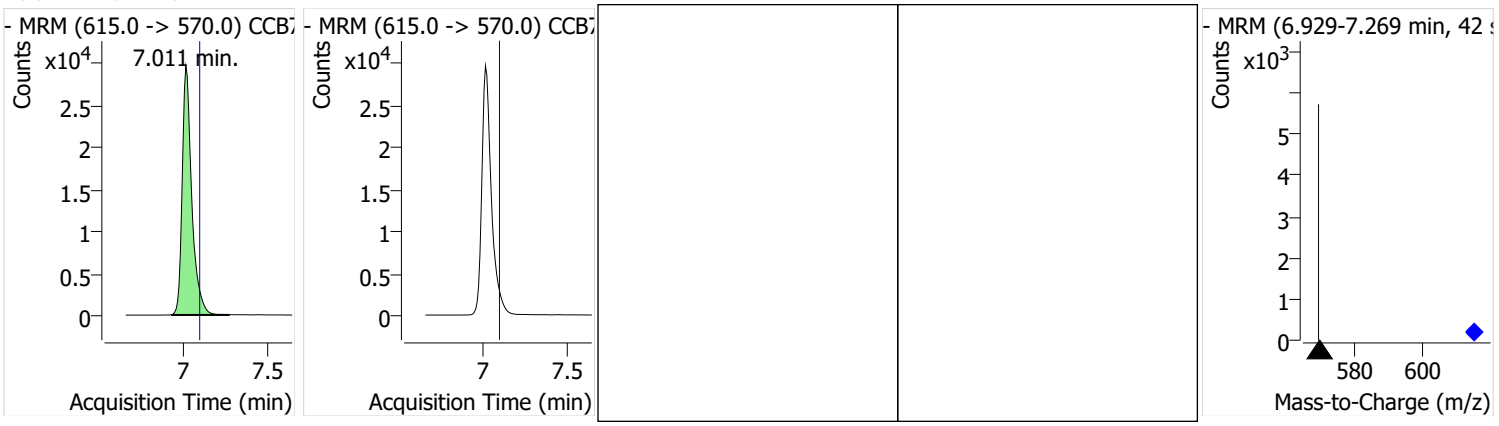
13C2-8:2FTS - ISTD



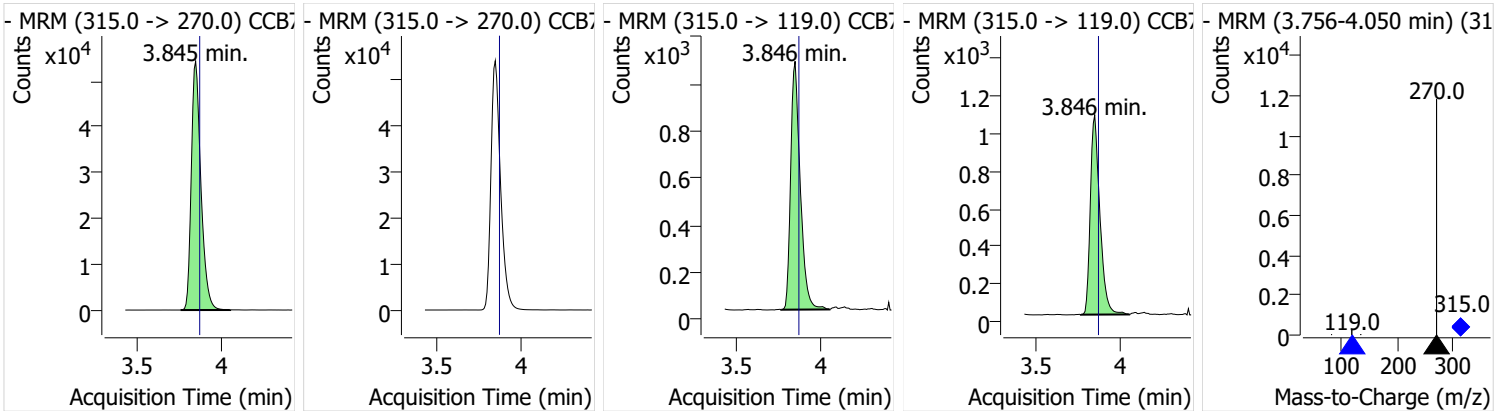
13C2-PFDA



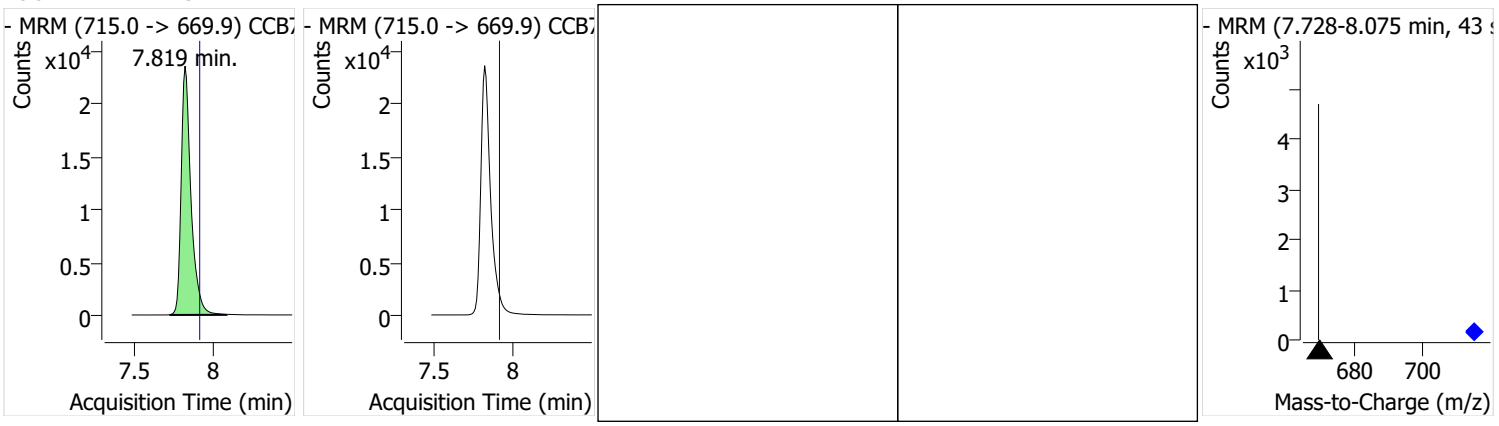
13C2-PFDoA - ISTD



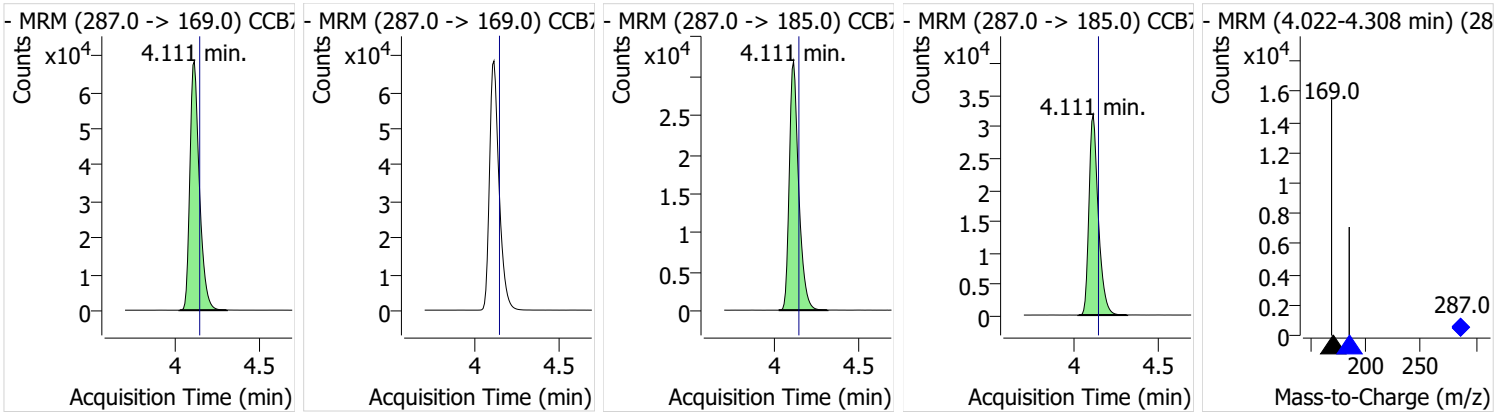
13C2-PFHxA



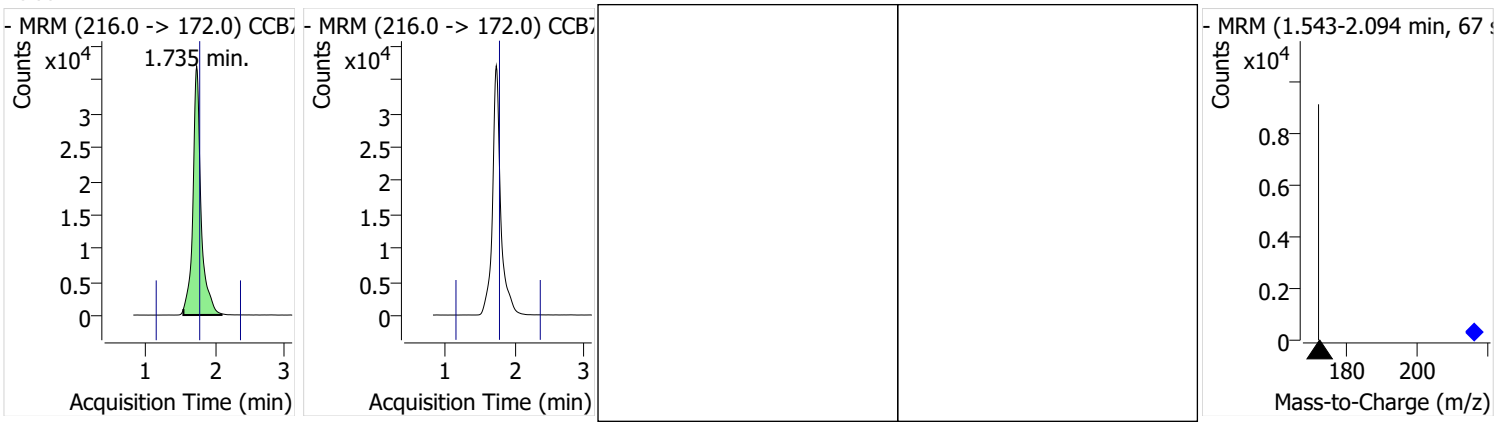
13C2-PFTeDA - ISTD



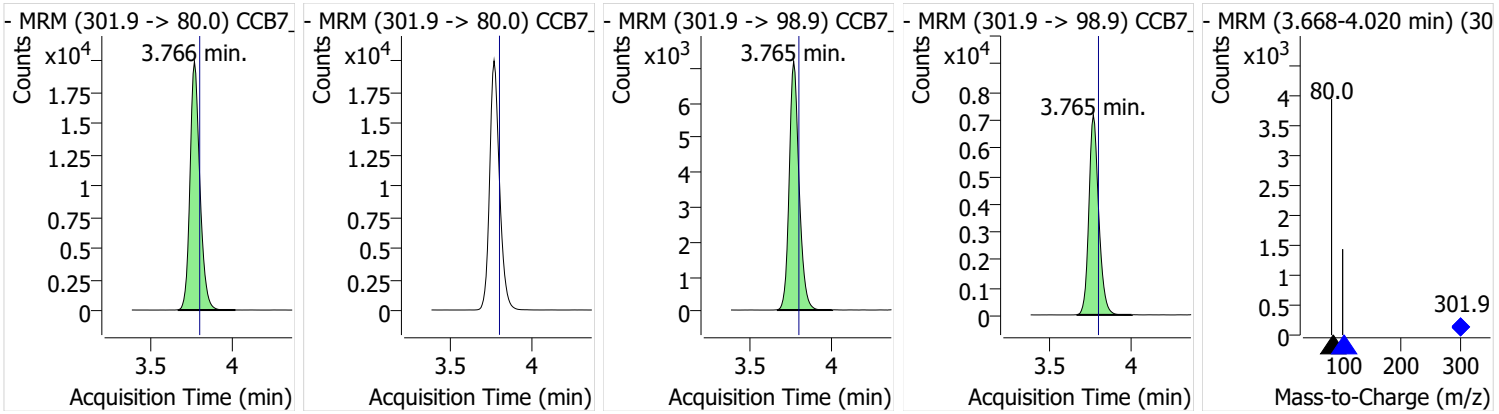
13C3-HFPODA - ISTD



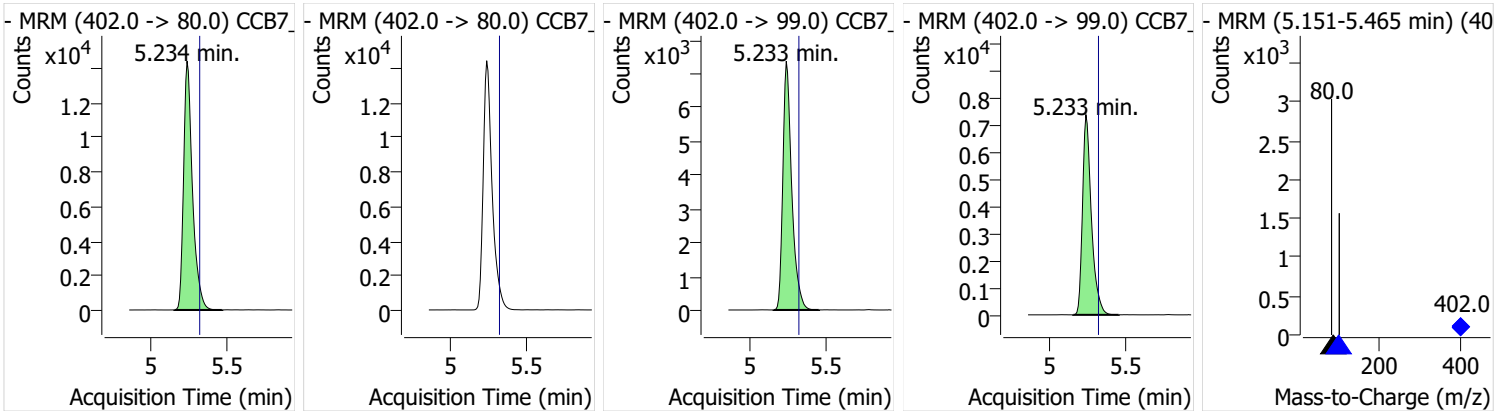
13C3-PFBA



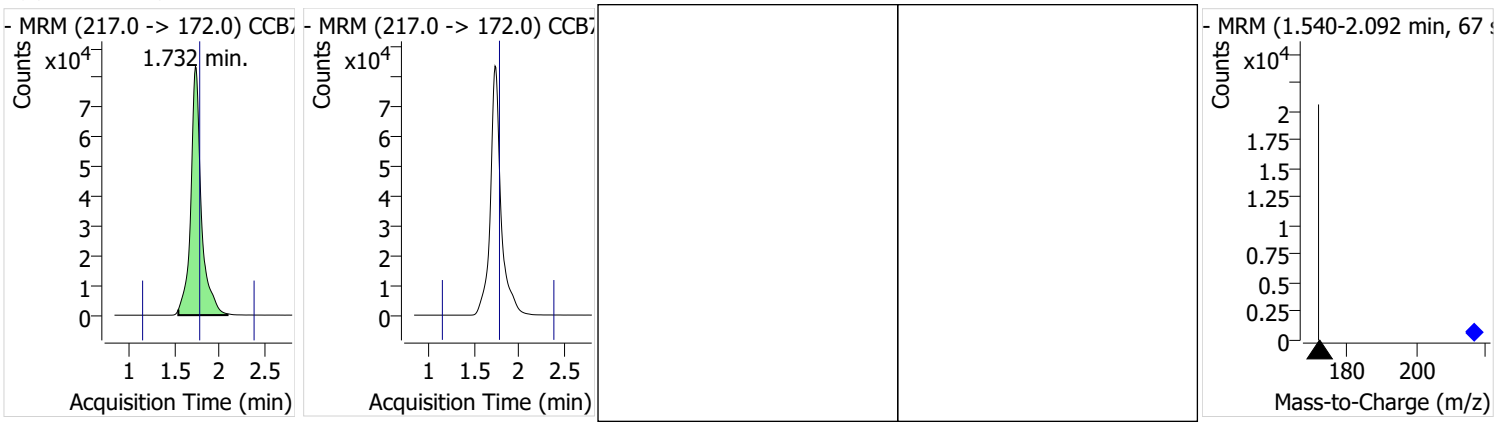
13C3-PFBS - ISTD



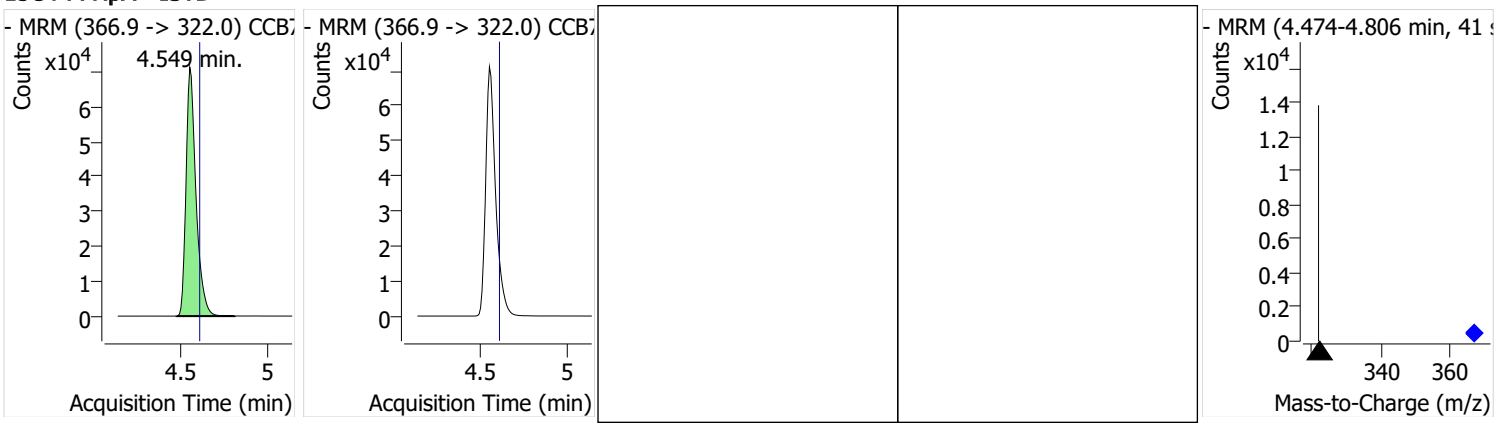
13C3-PFHxS - ISTD



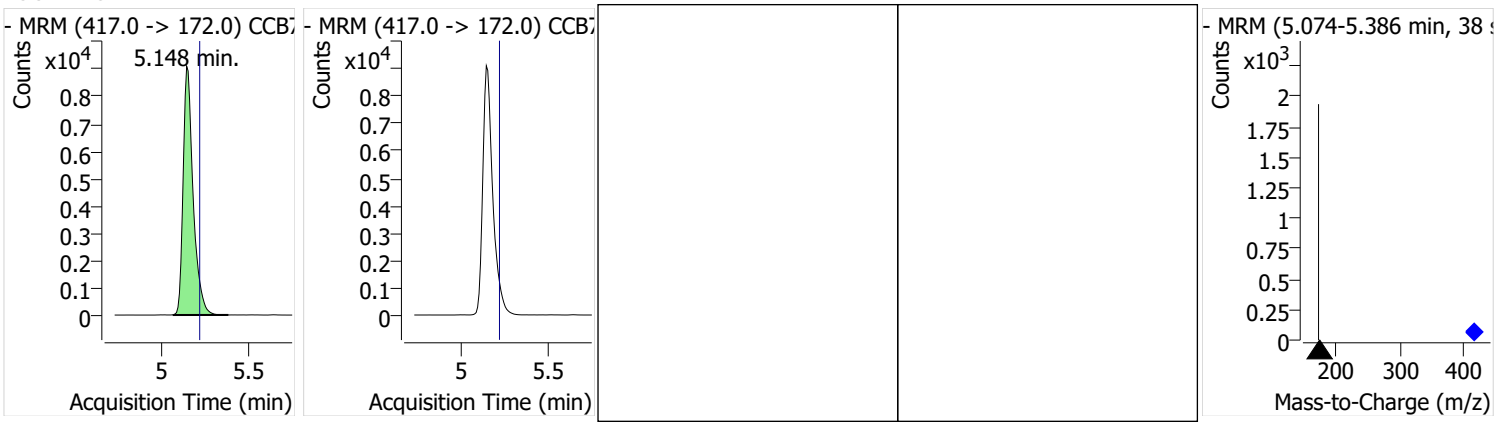
13C4-PFBA - ISTD



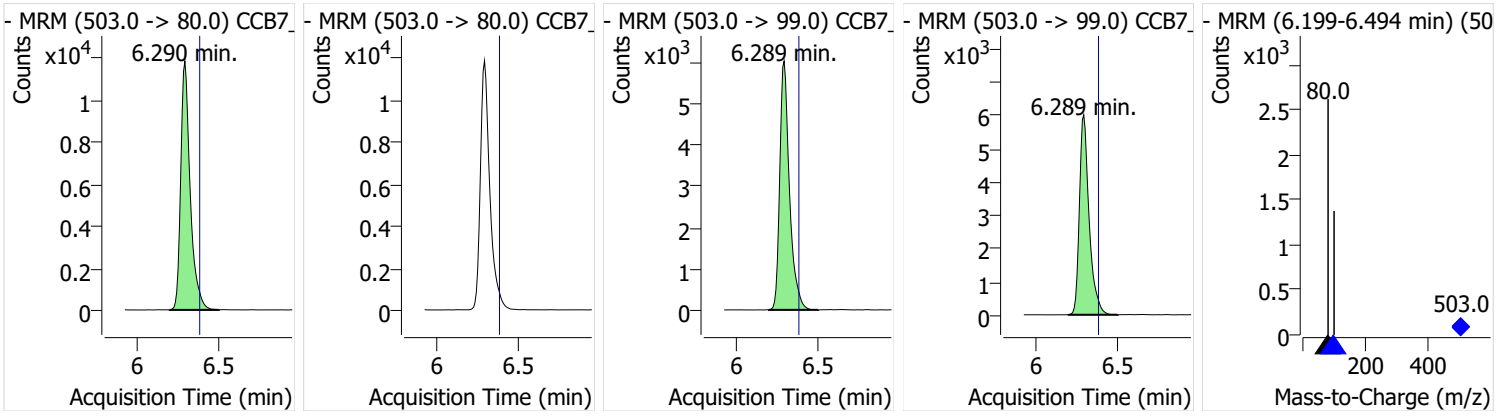
13C4-PFHpA - ISTD



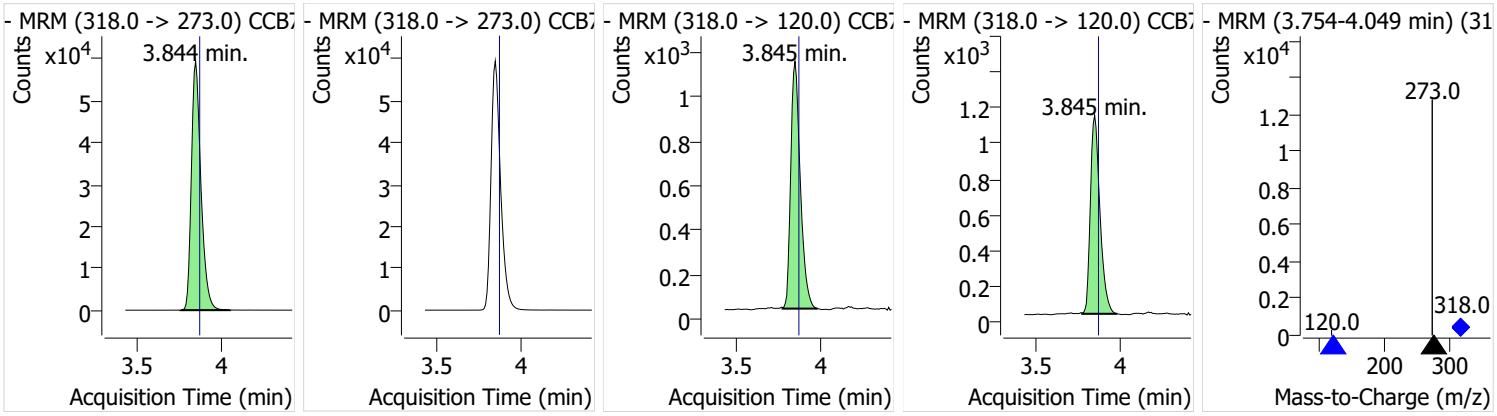
13C4-PFOA



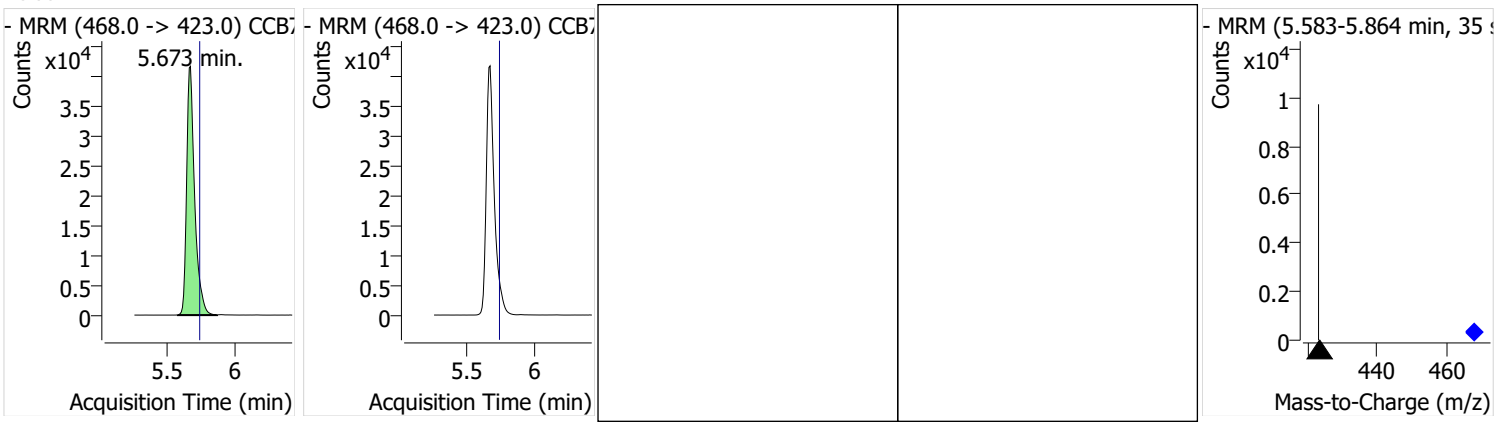
13C4-PFOS



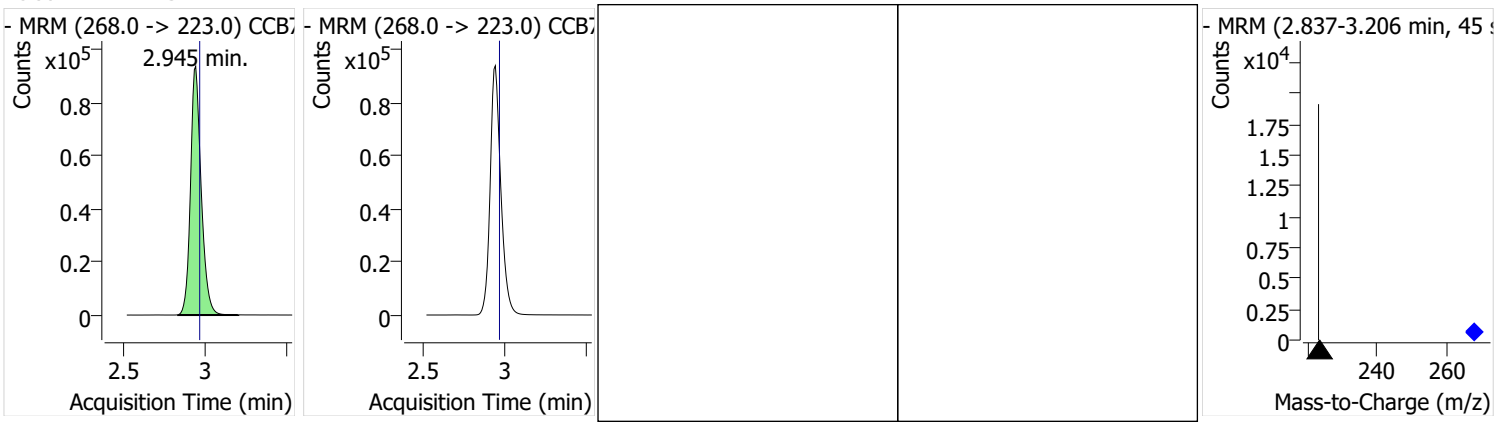
13C5-PFHxA - ISTD



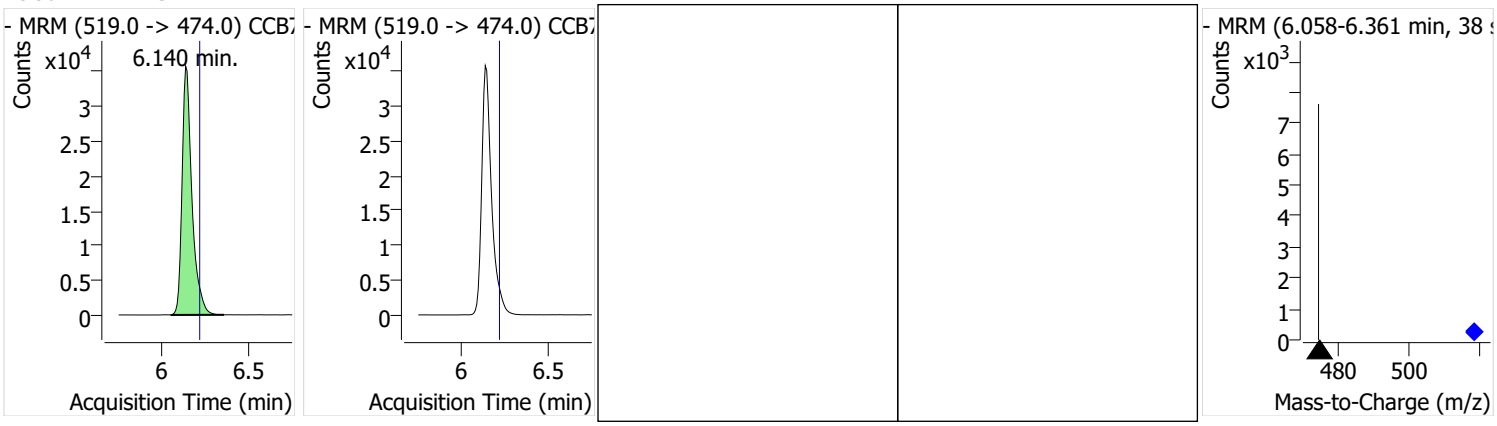
13C5-PFNA



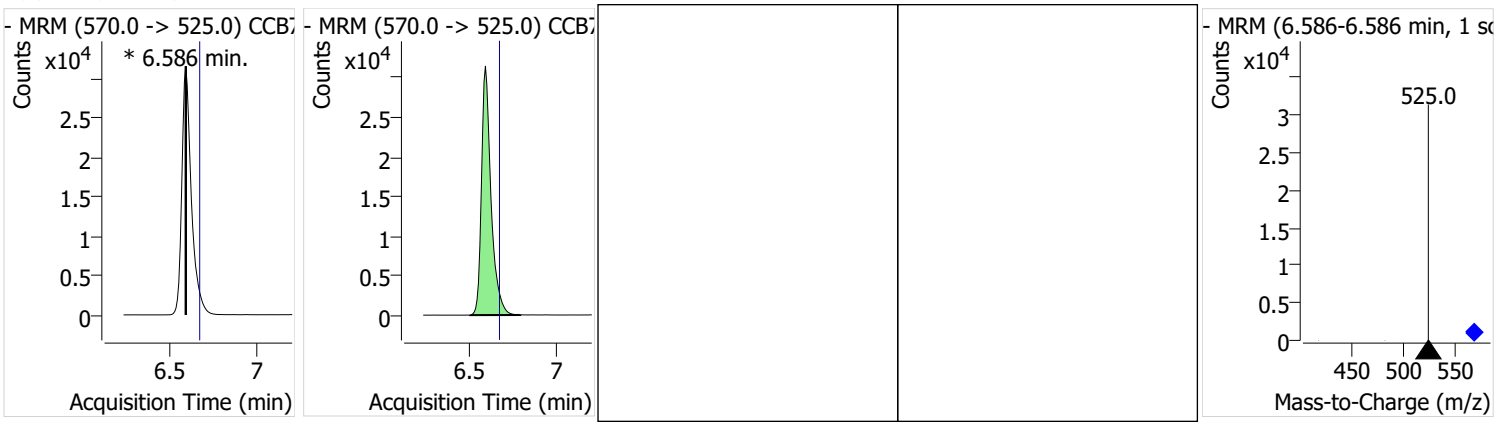
13C5-PFPeA - ISTD



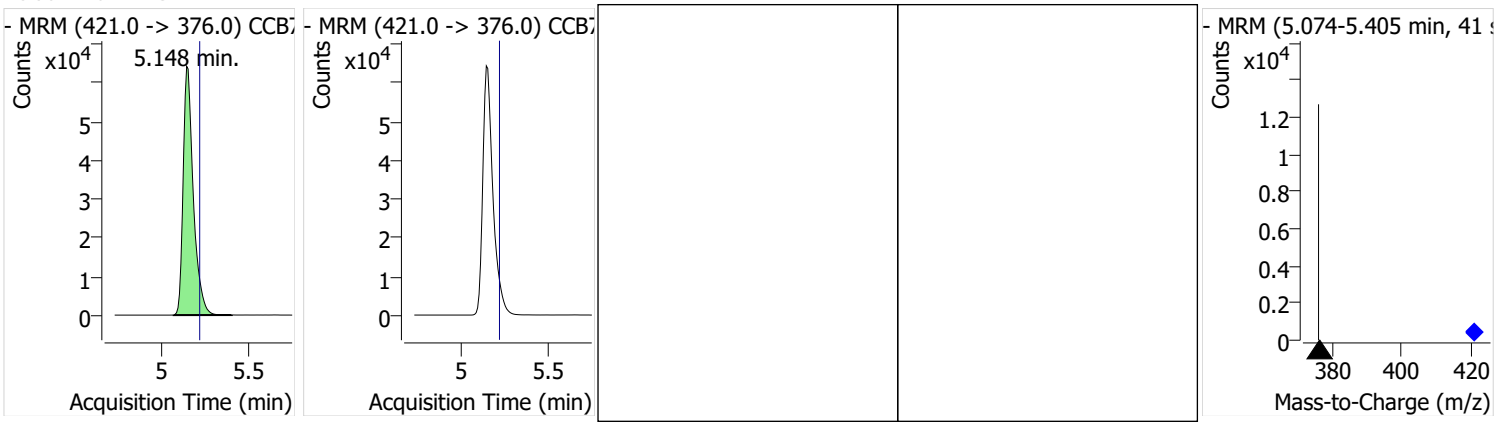
13C6-PFDA - ISTD



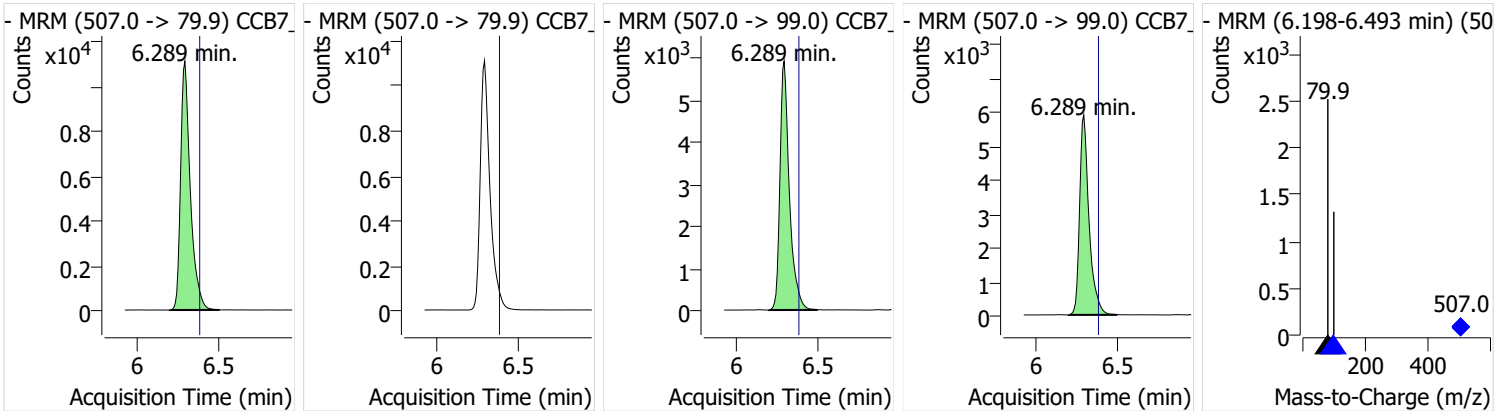
13C7-PFUnA - ISTD



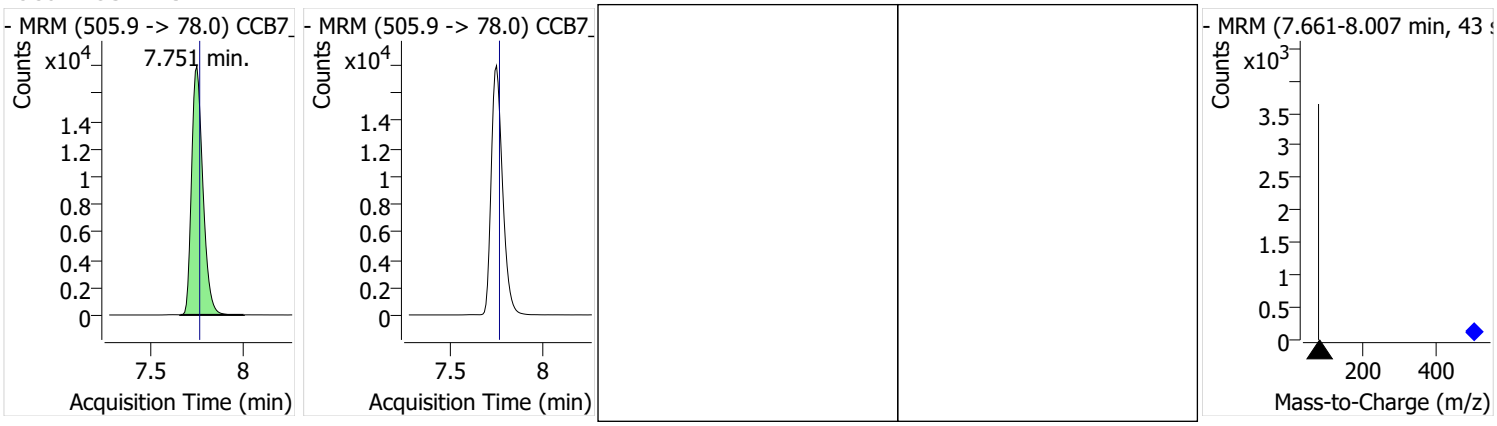
13C8-PFOA - ISTD



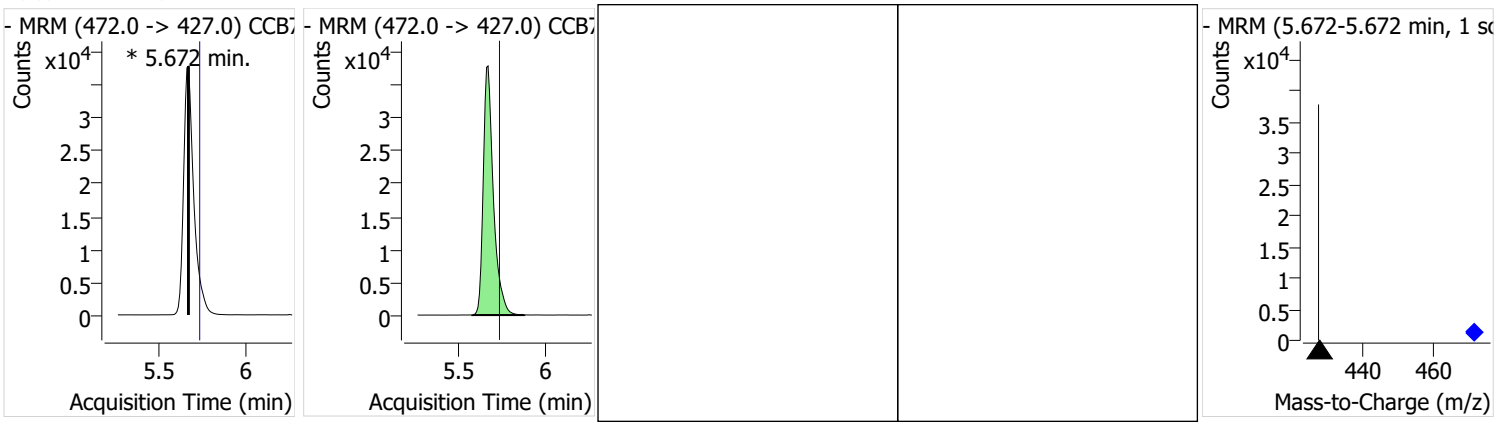
13C8-PFOS - ISTD



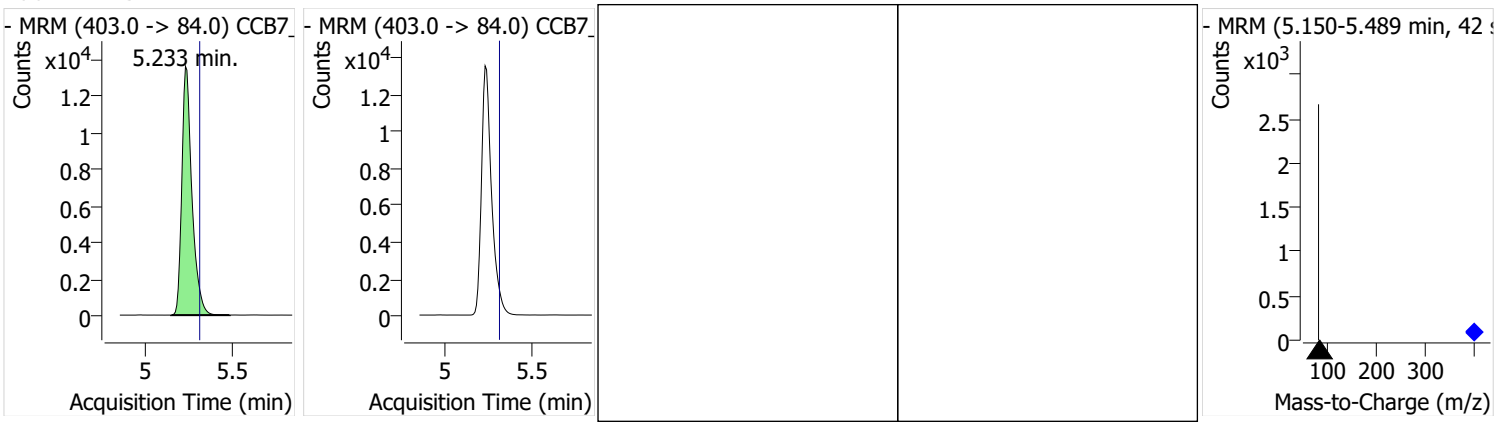
13C8-PFOSA - ISTD



13C9-PFNA - ISTD



18O2-PFHxS



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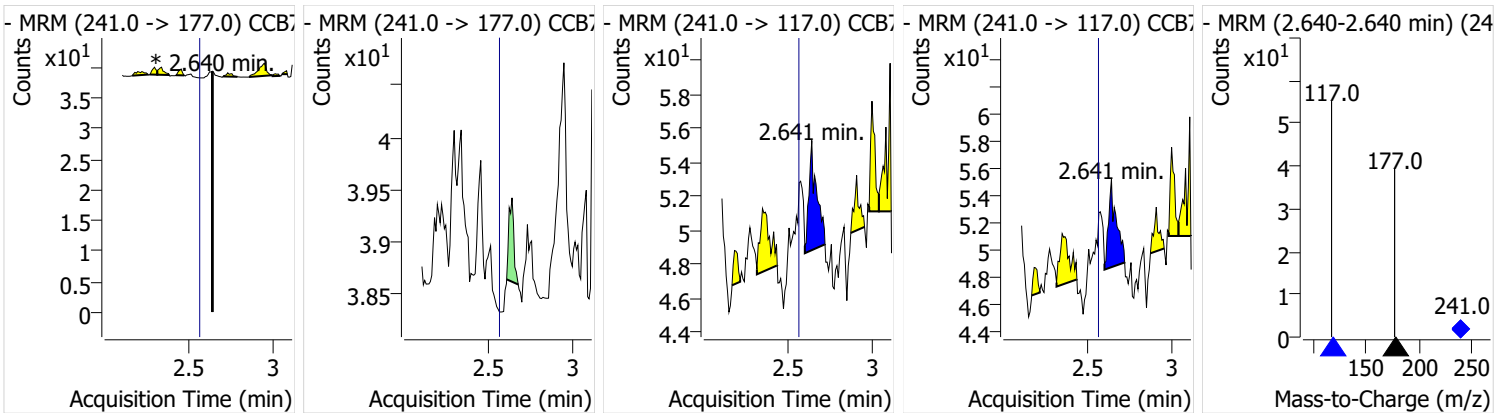

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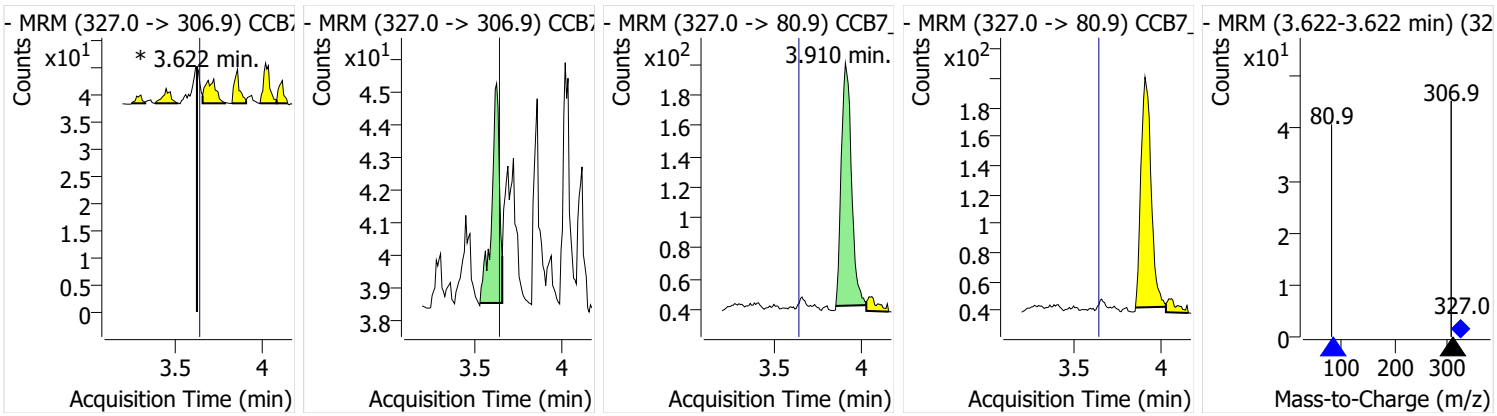

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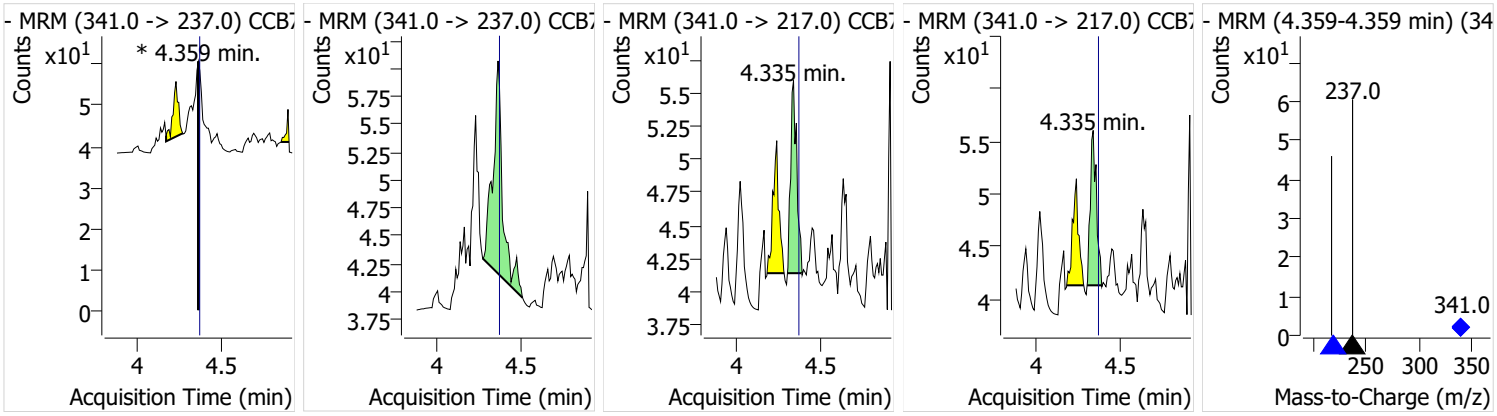

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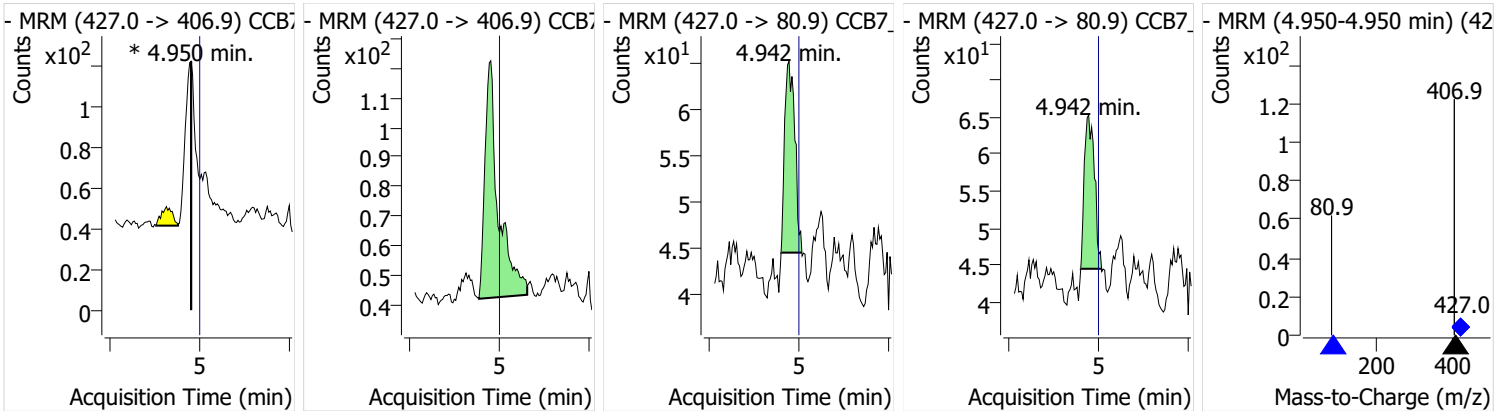

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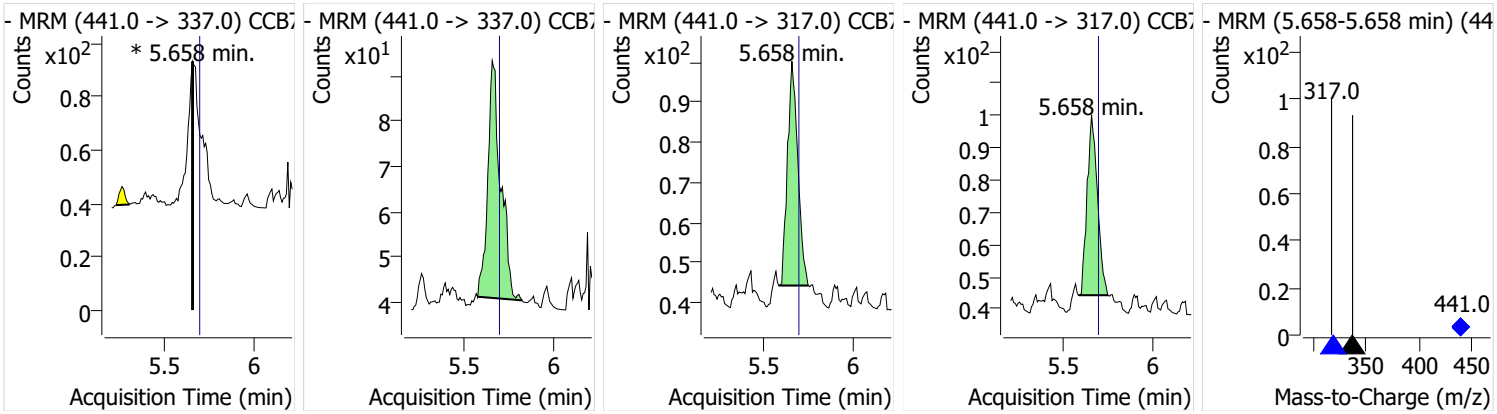

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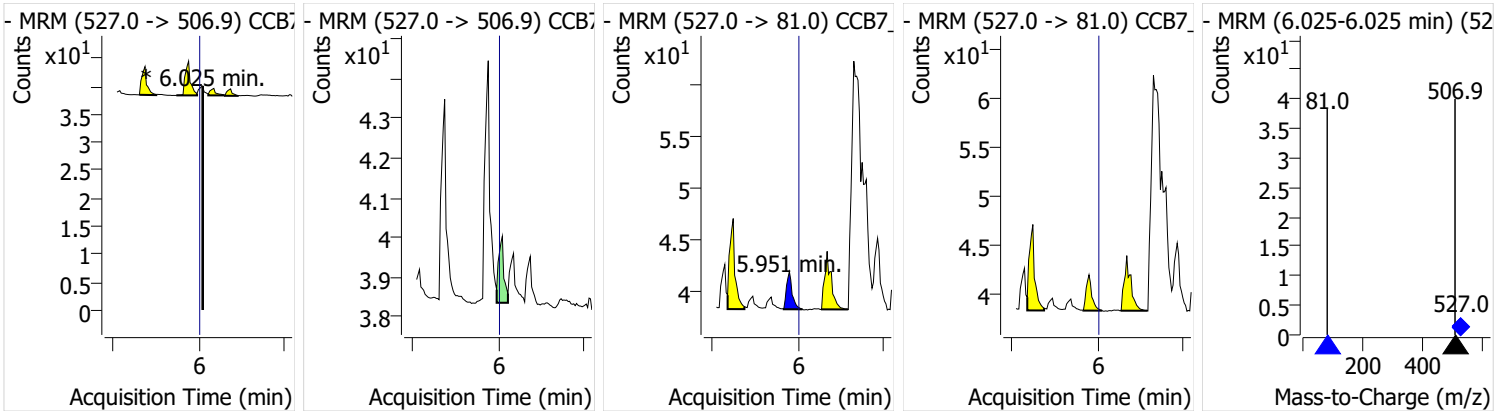

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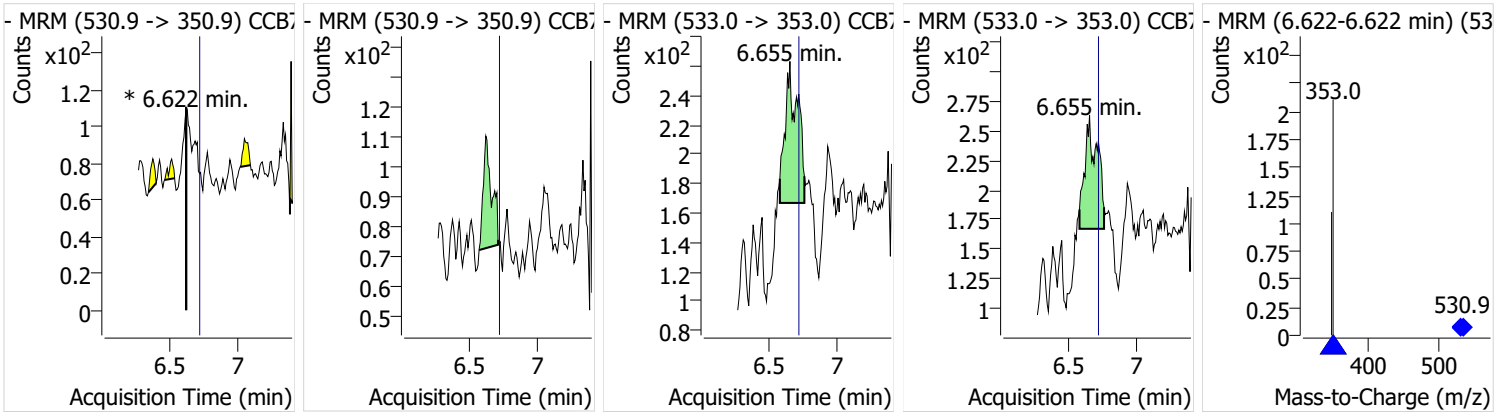

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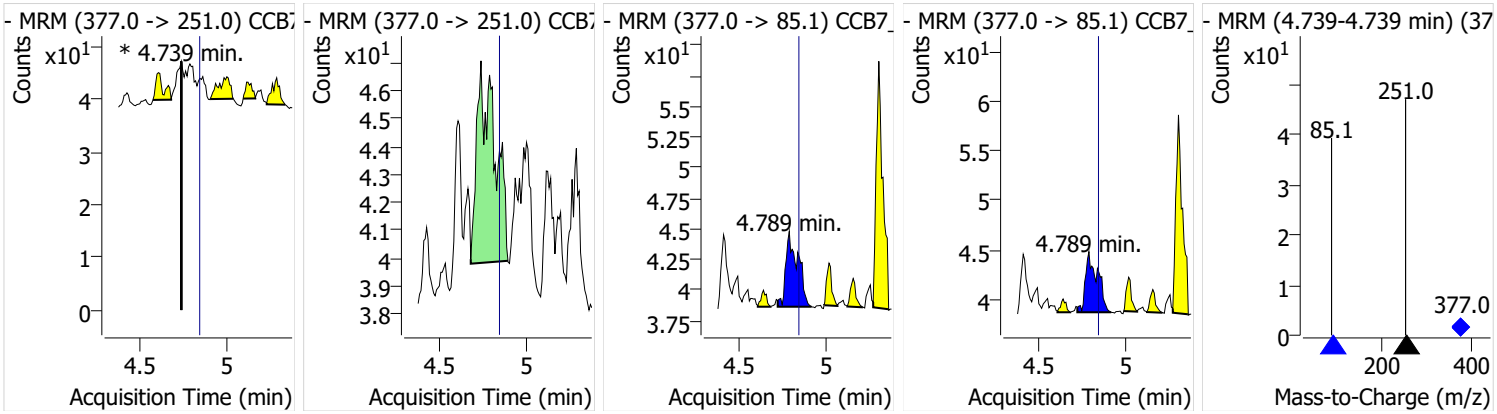

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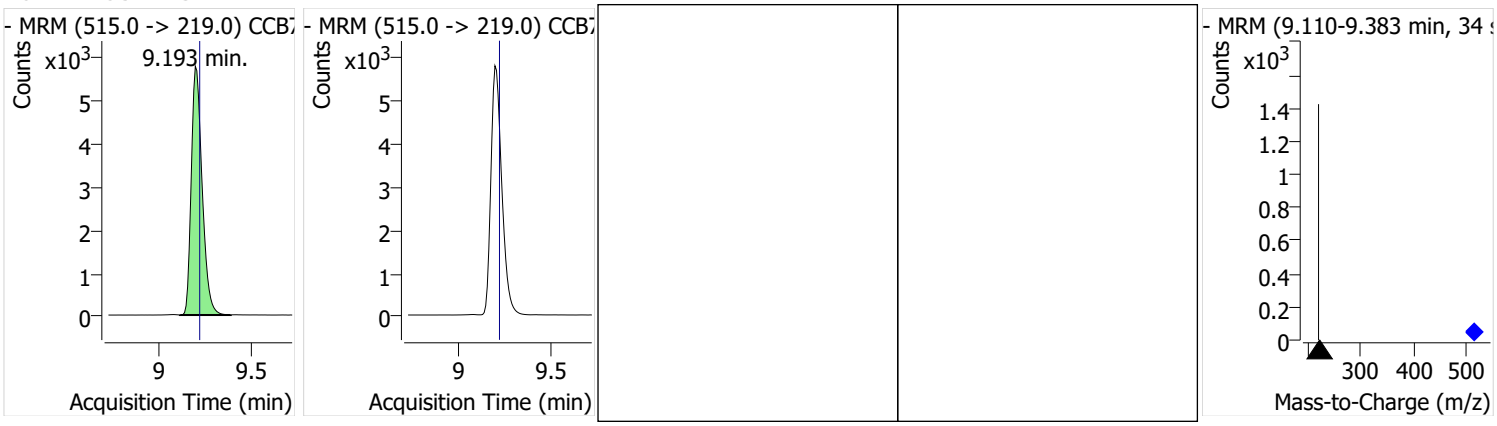

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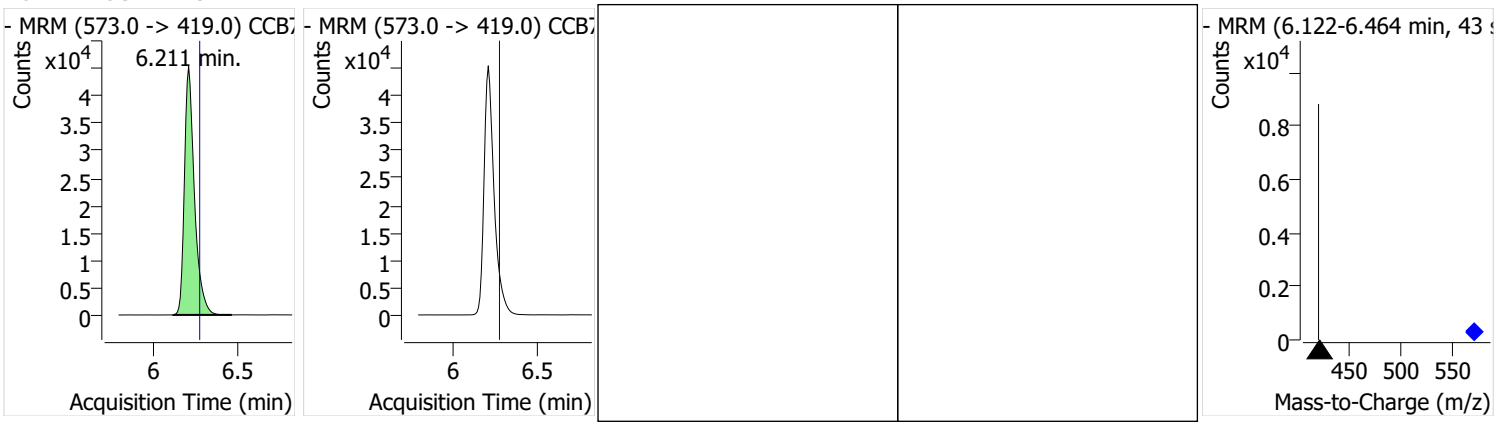

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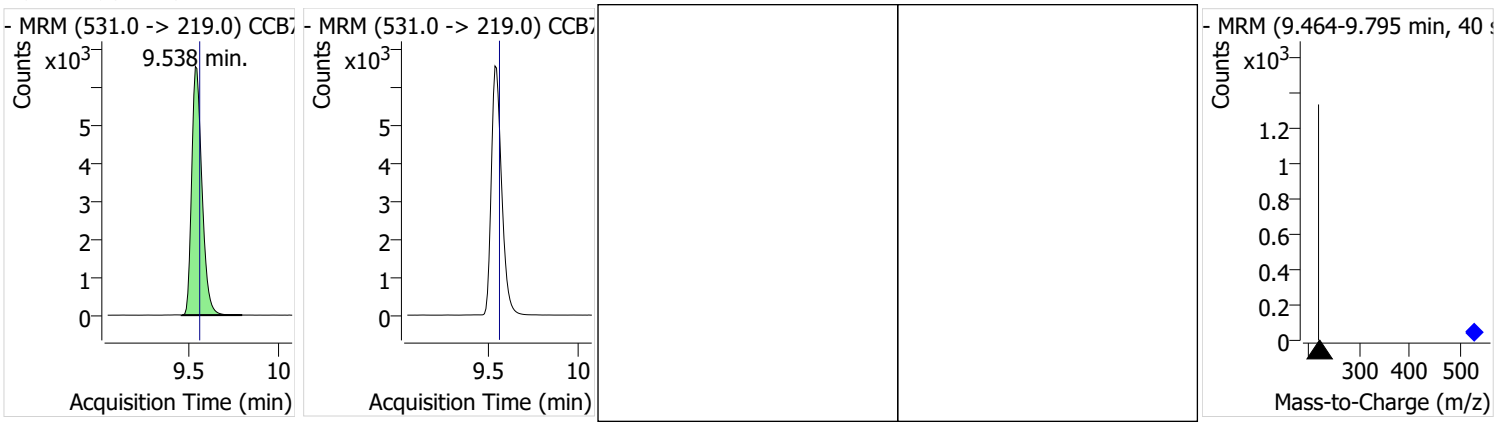

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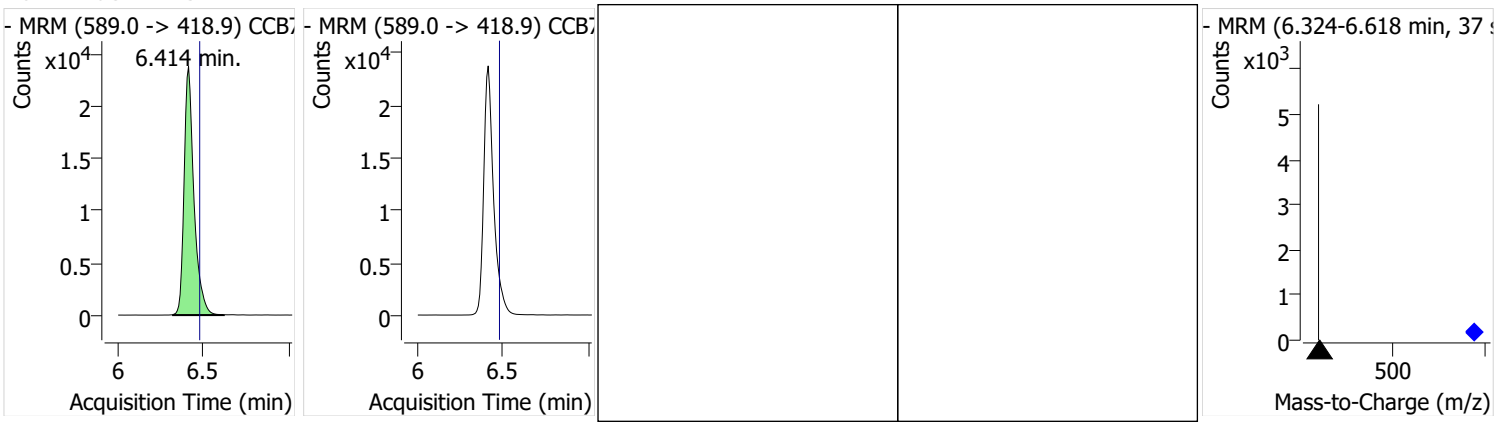

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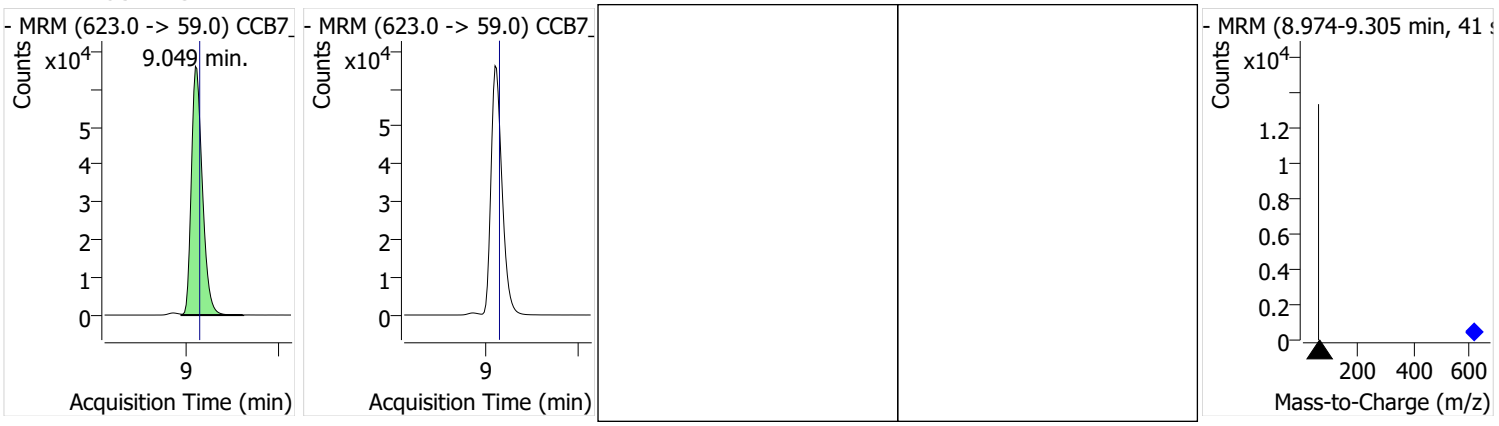

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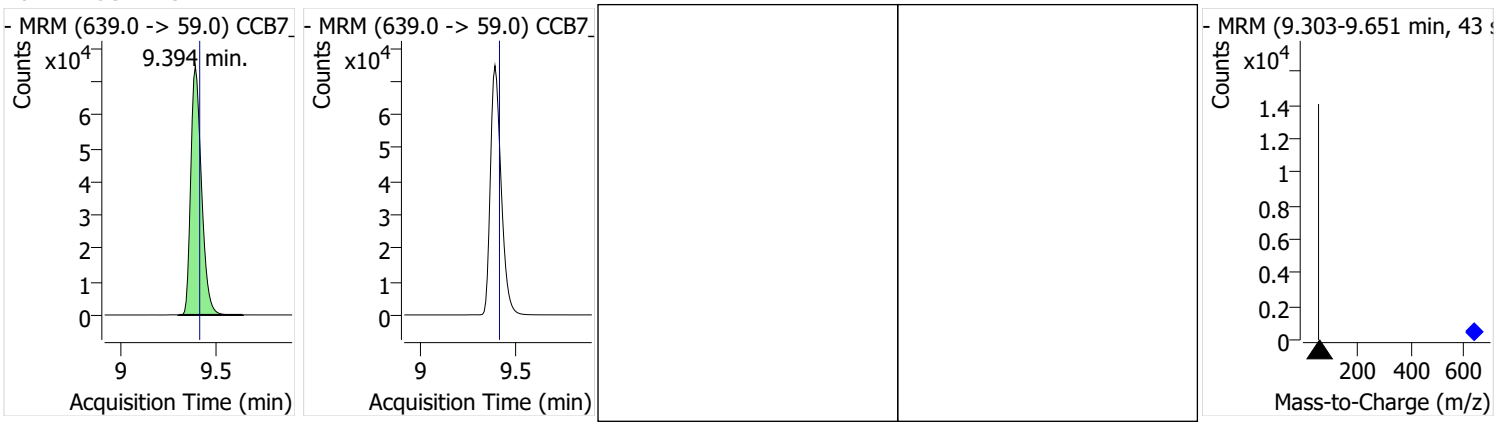

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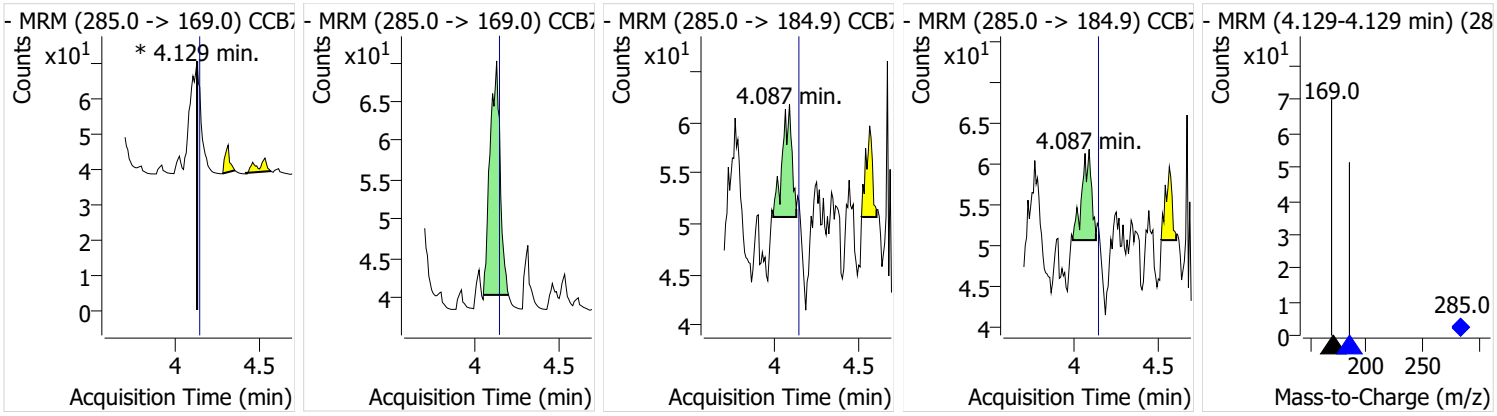

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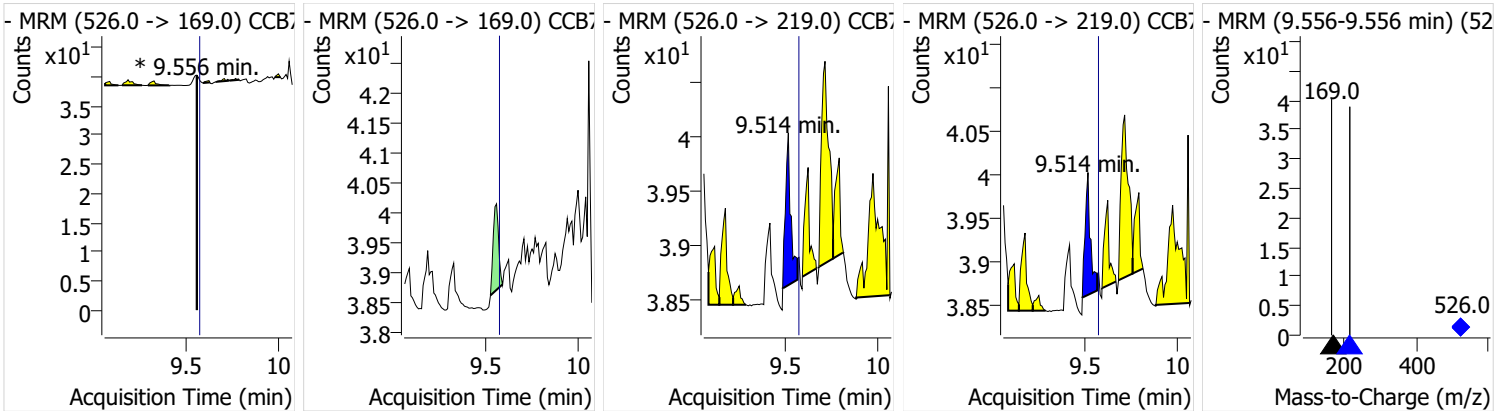

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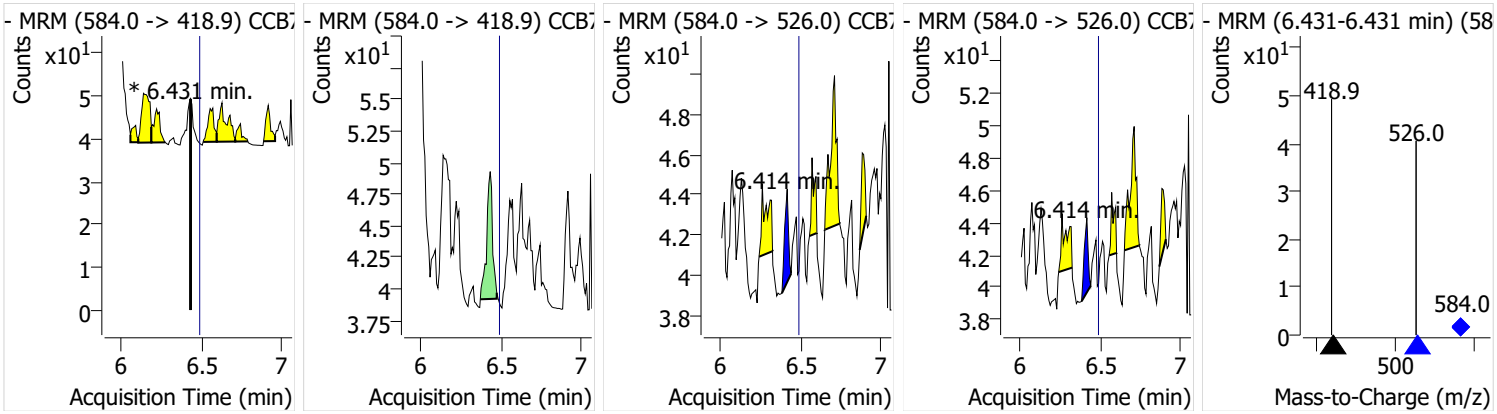

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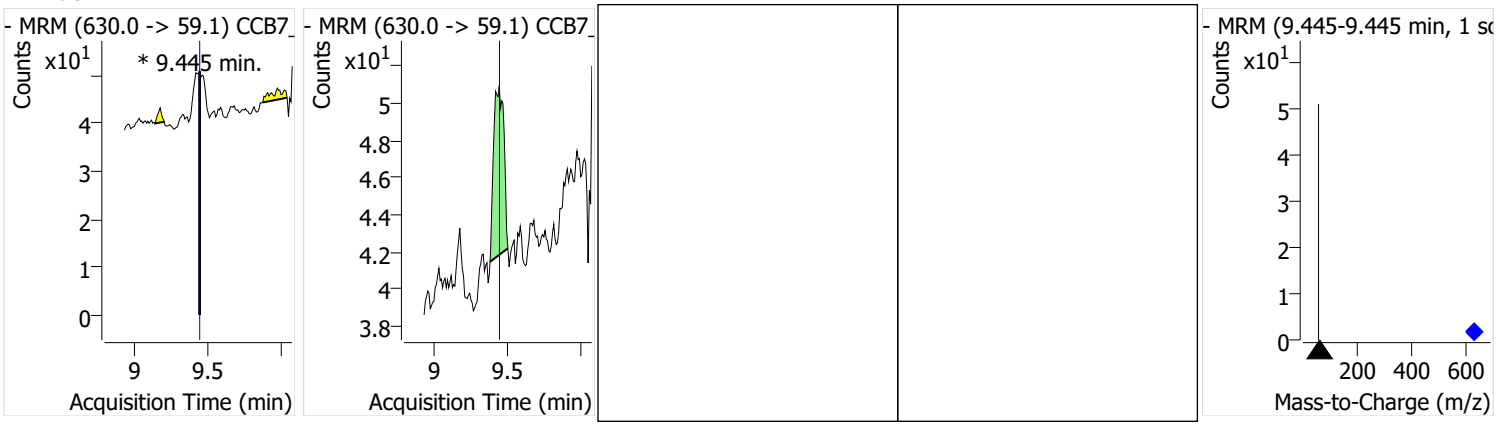

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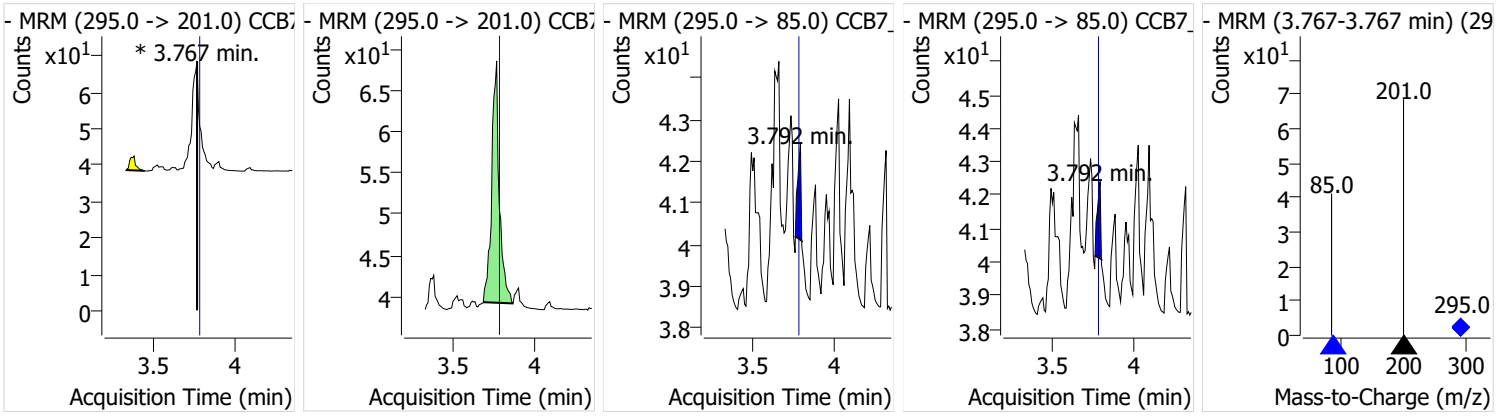

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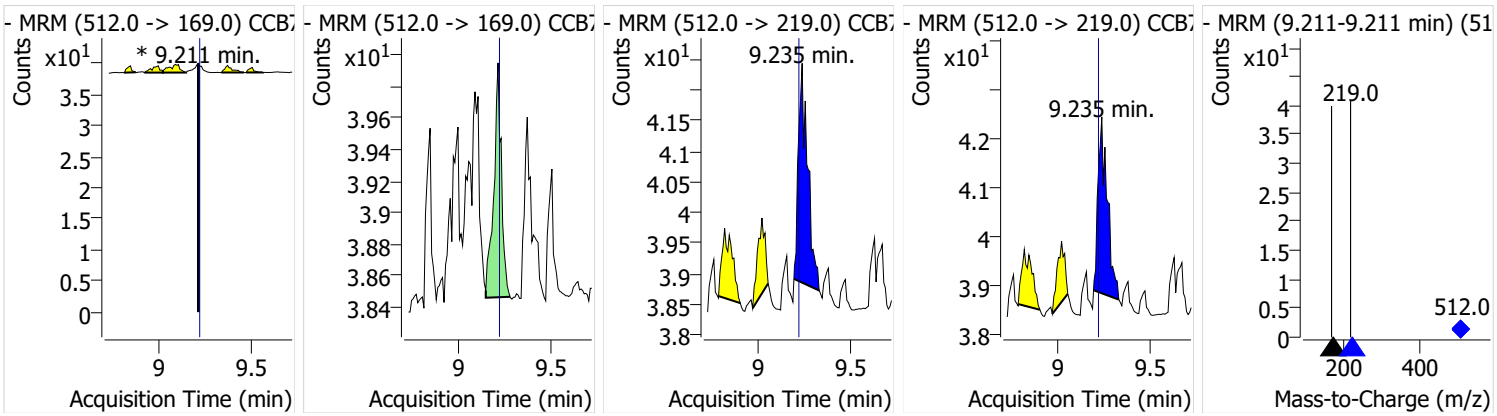

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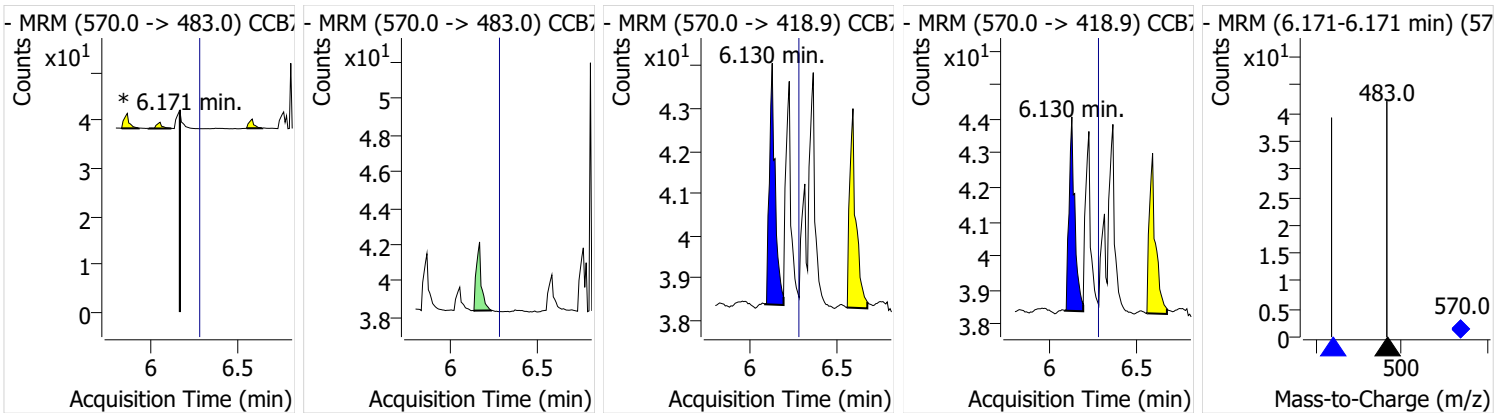

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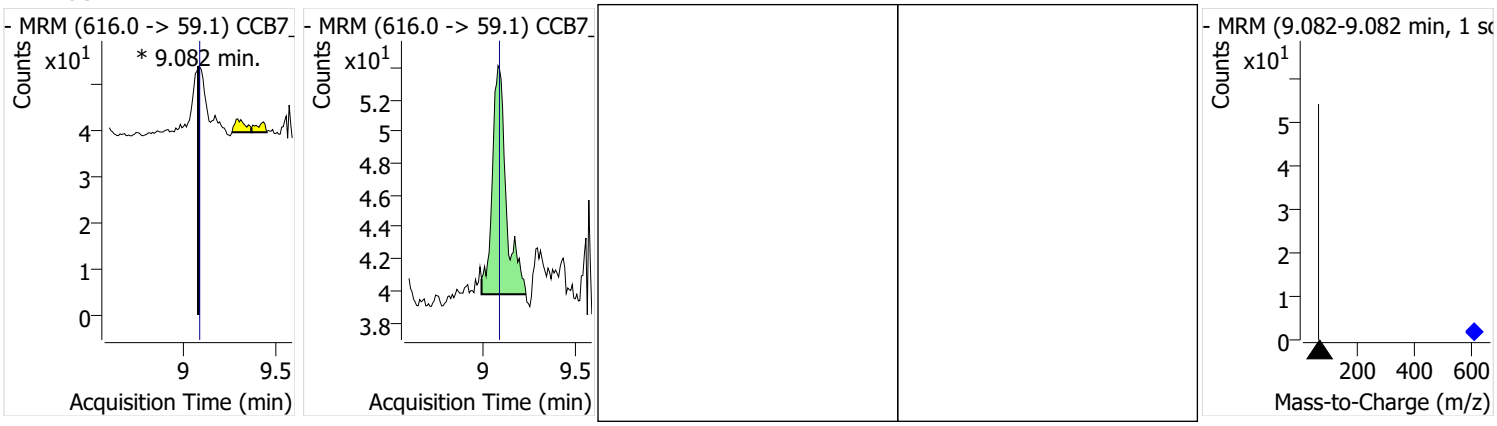

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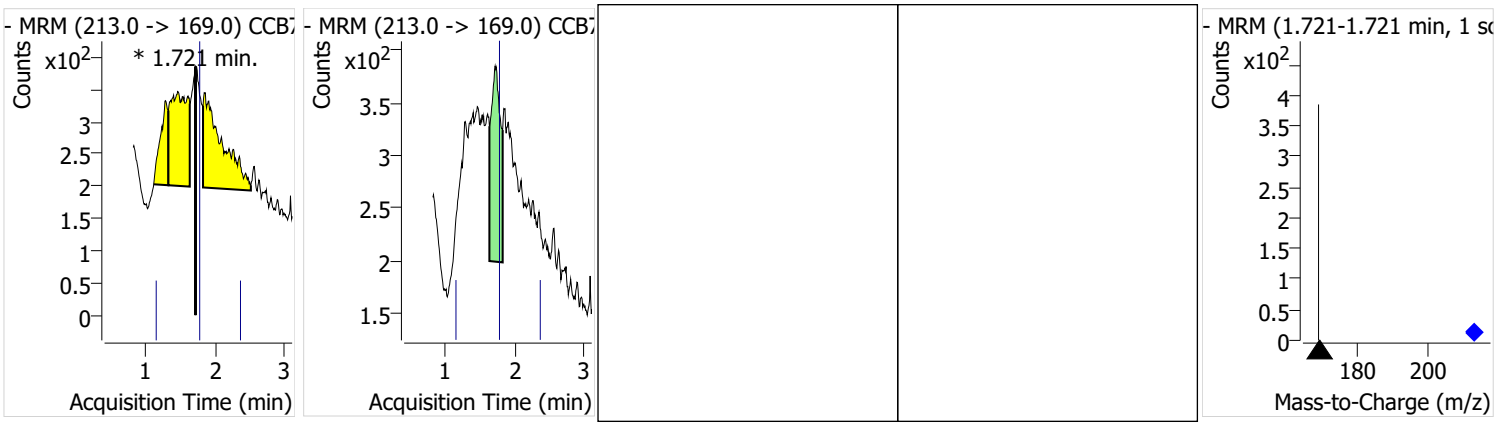

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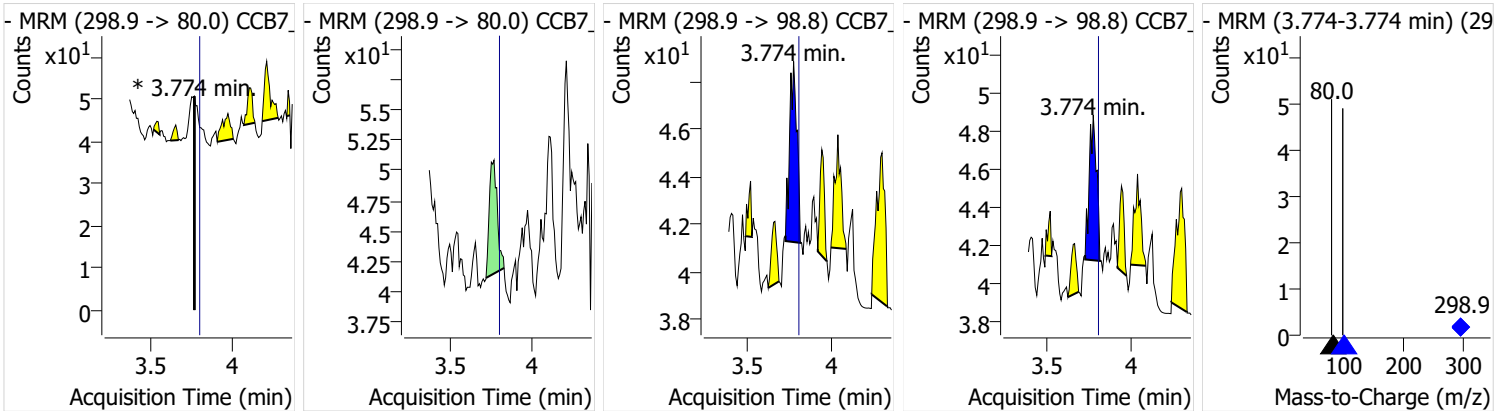

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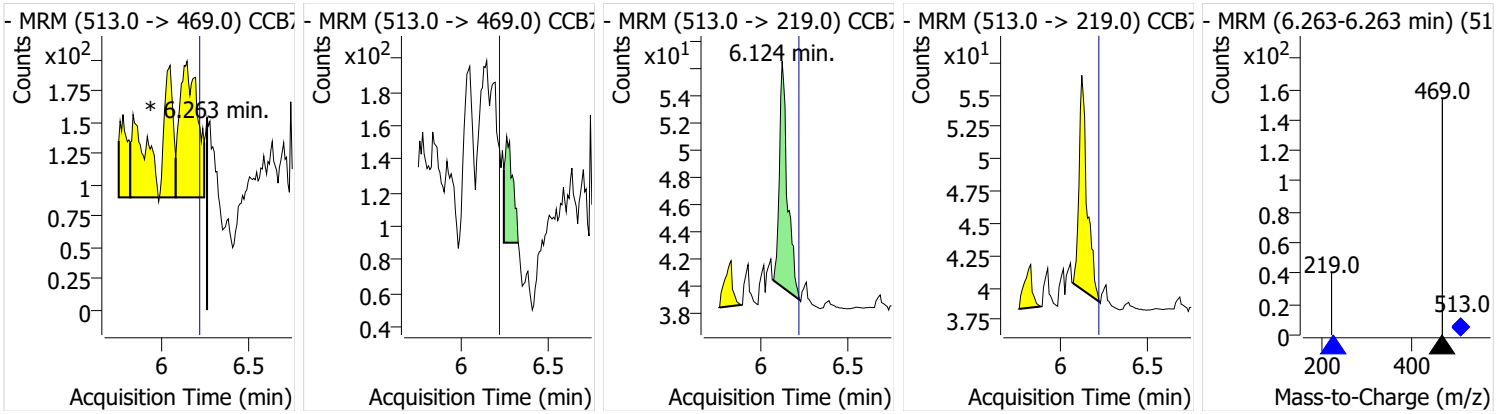

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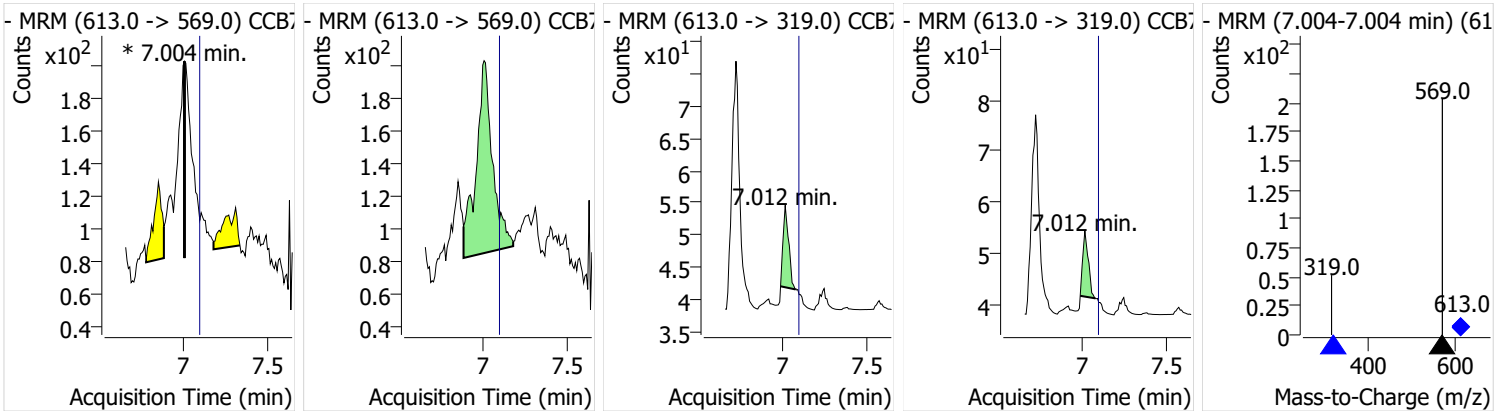

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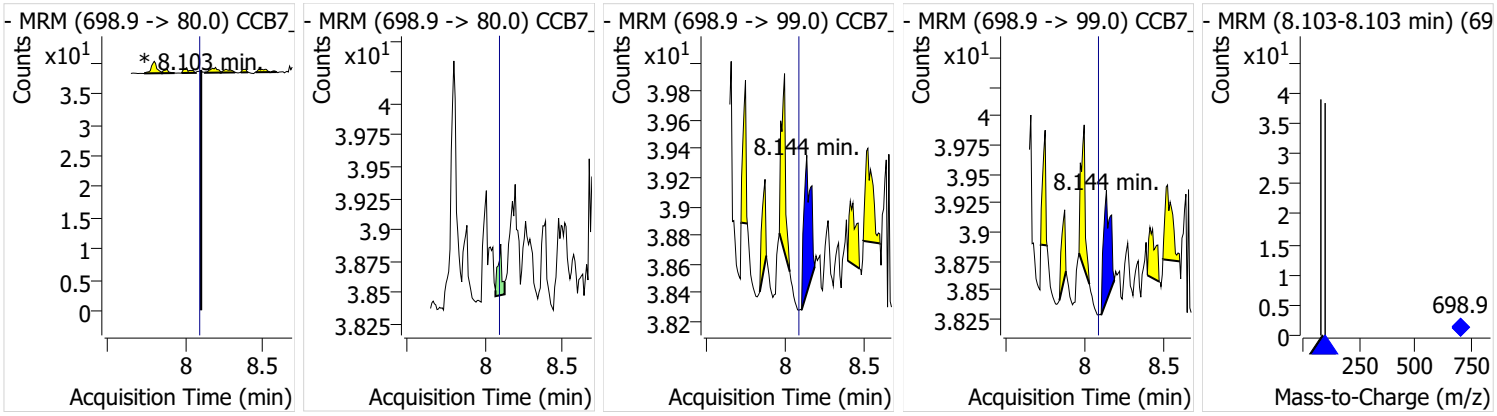

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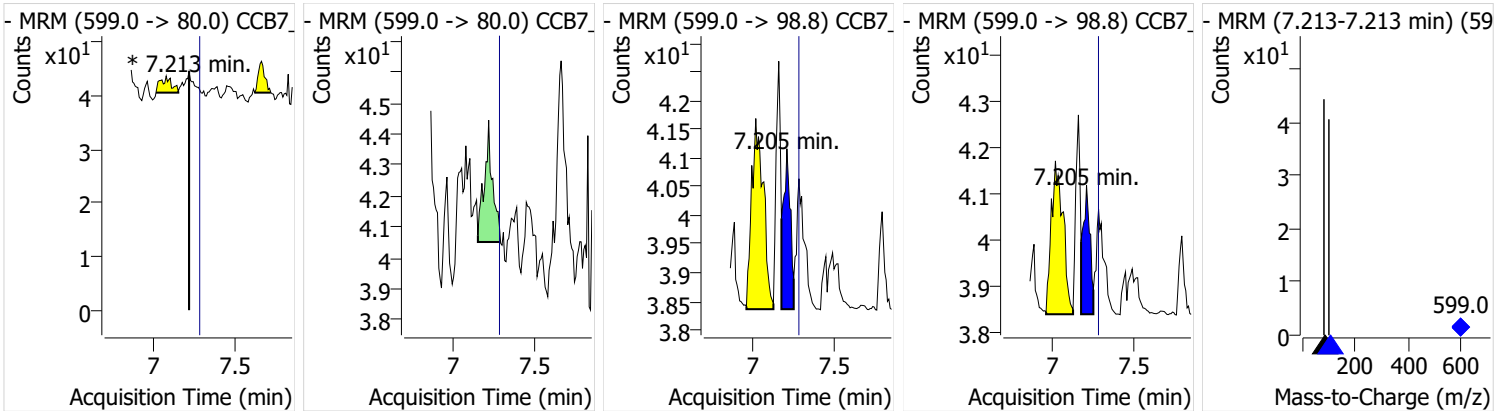

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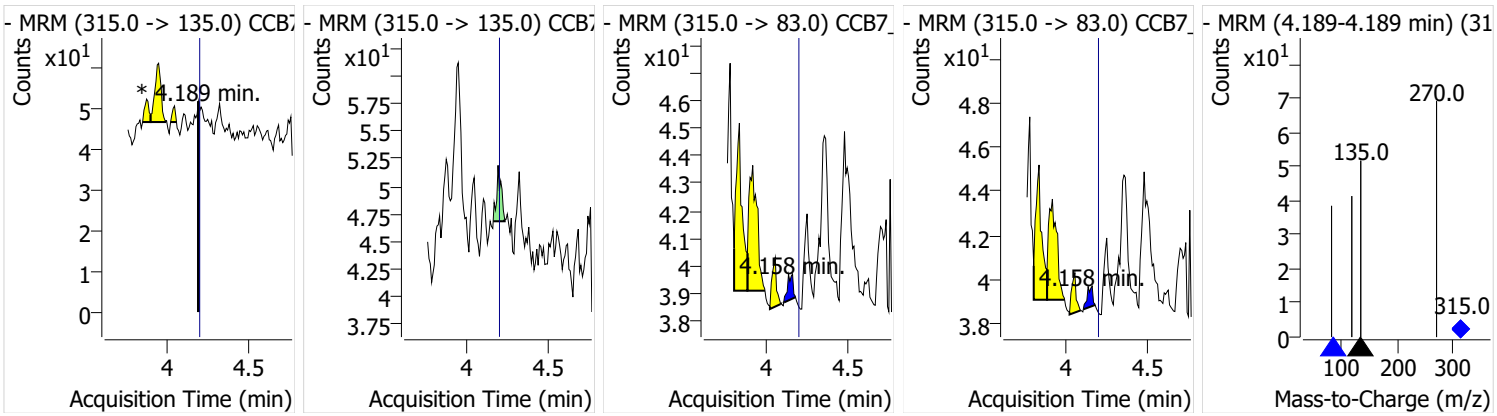

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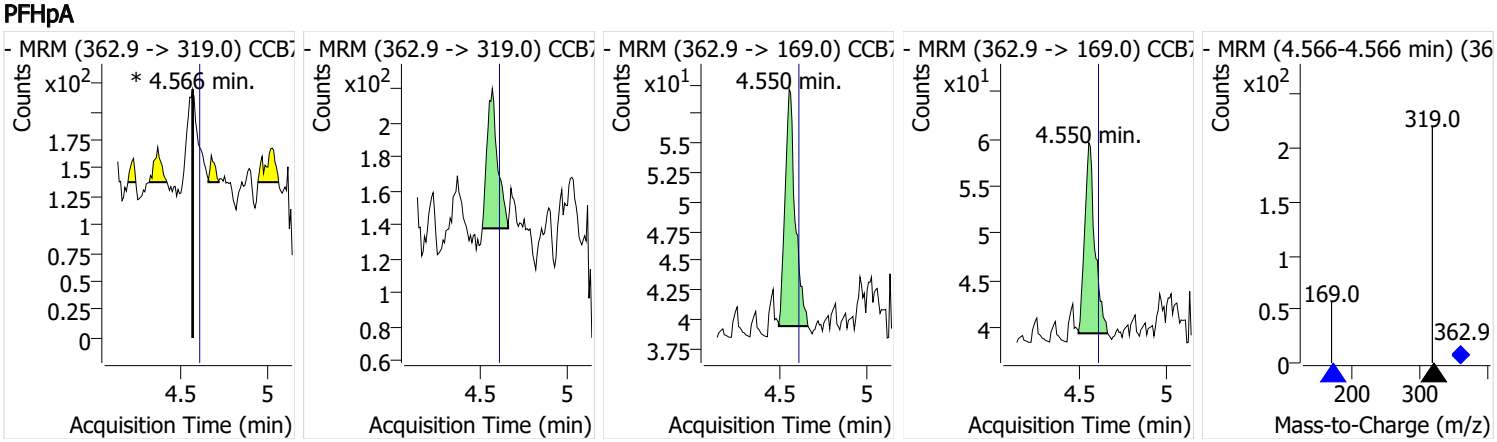

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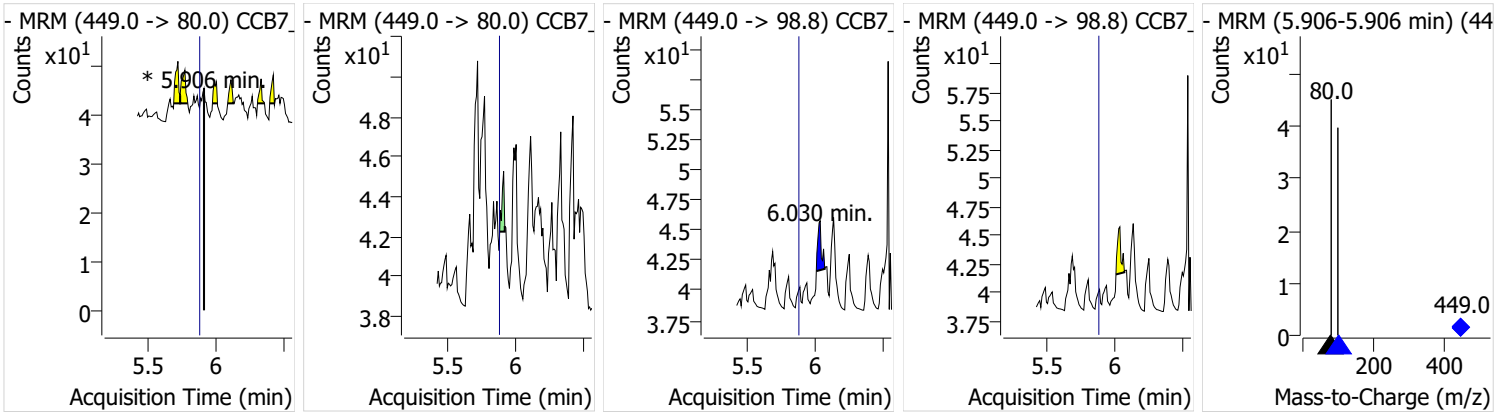

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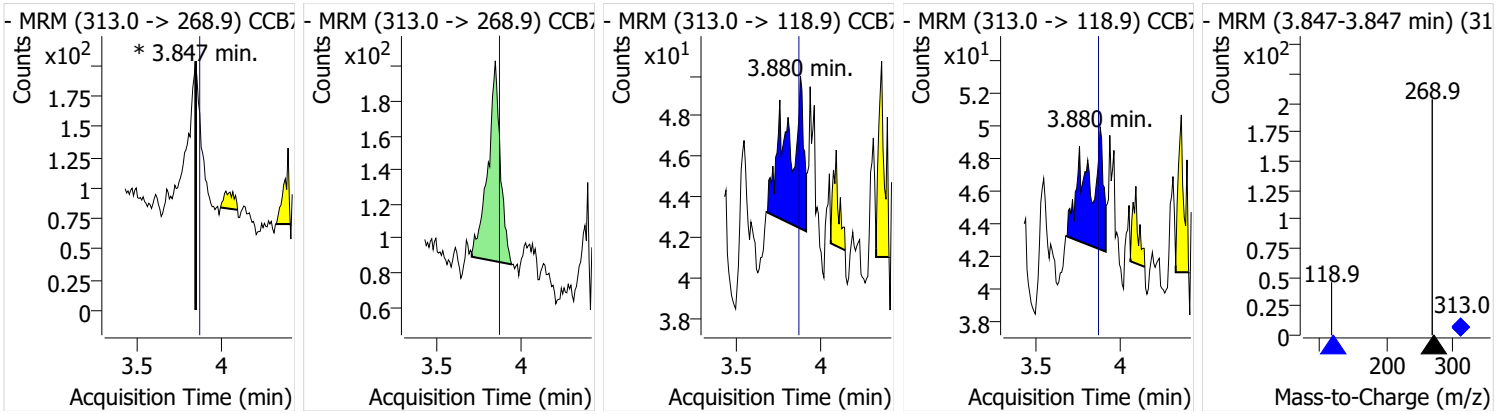

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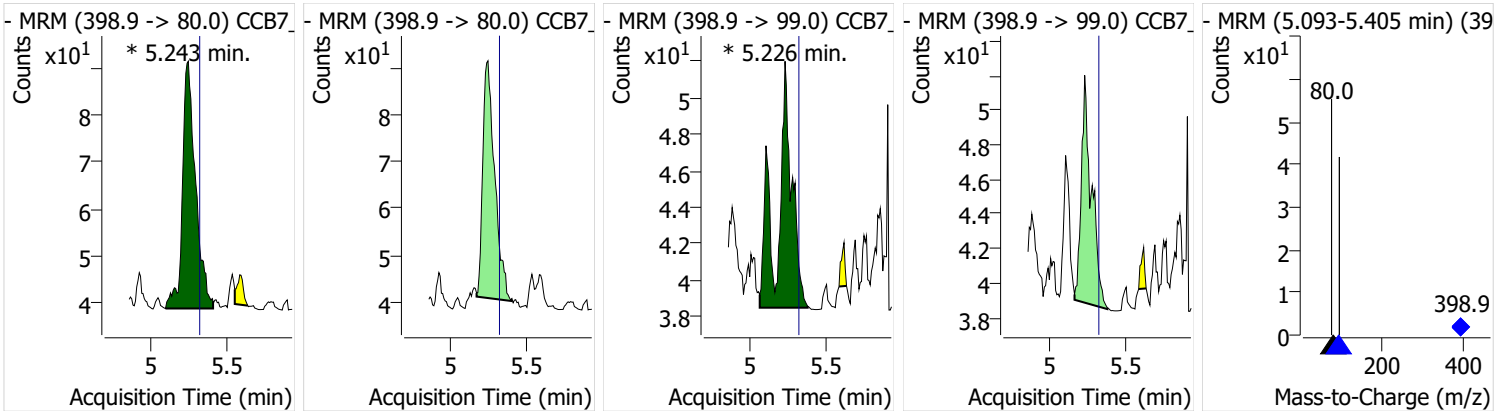

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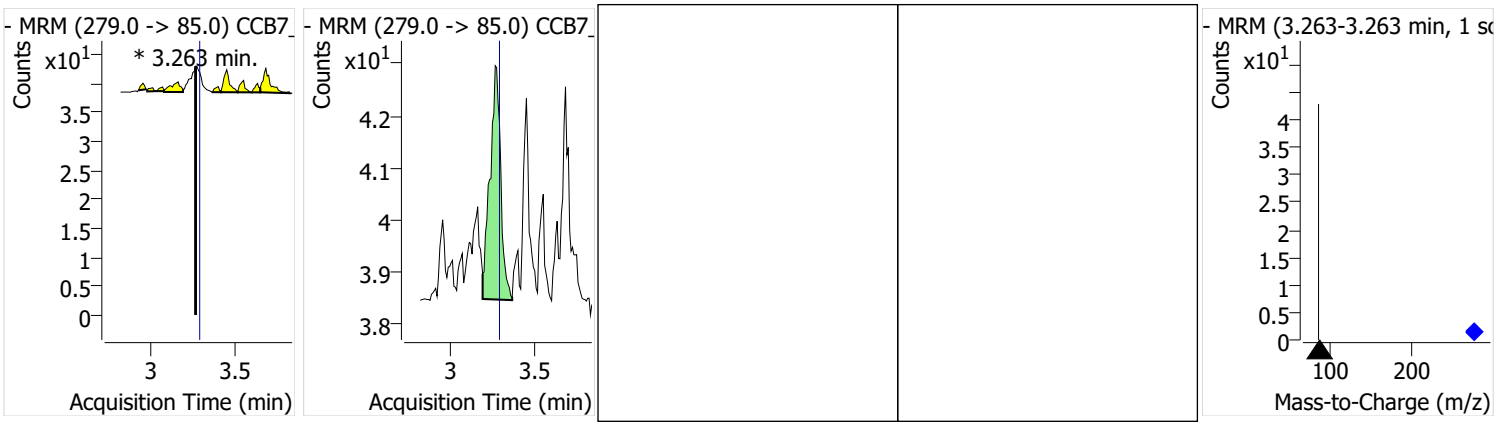

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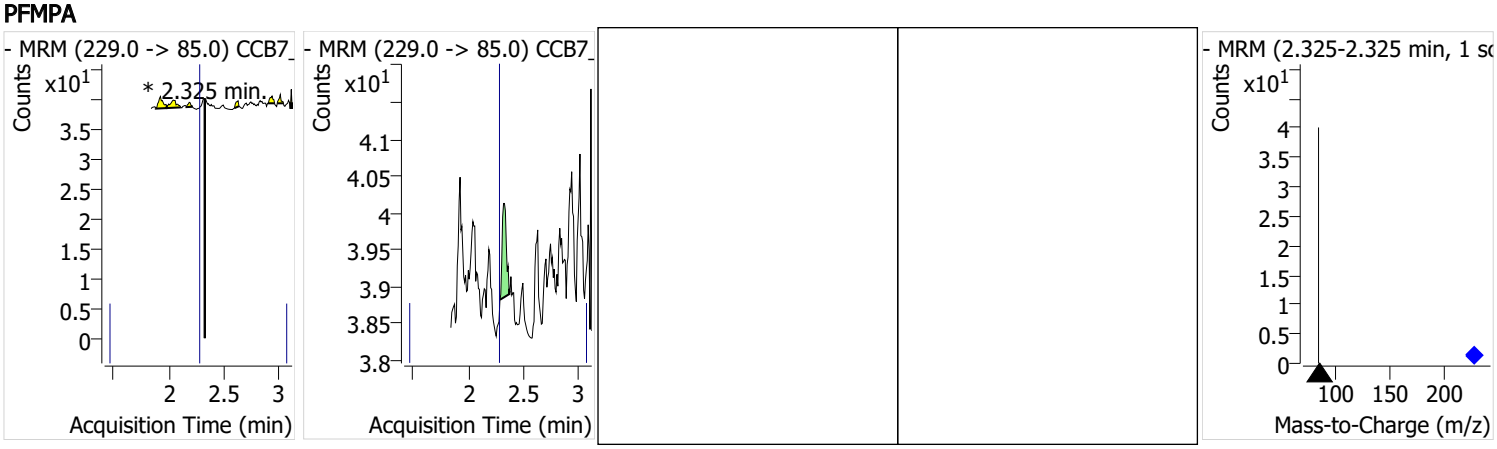

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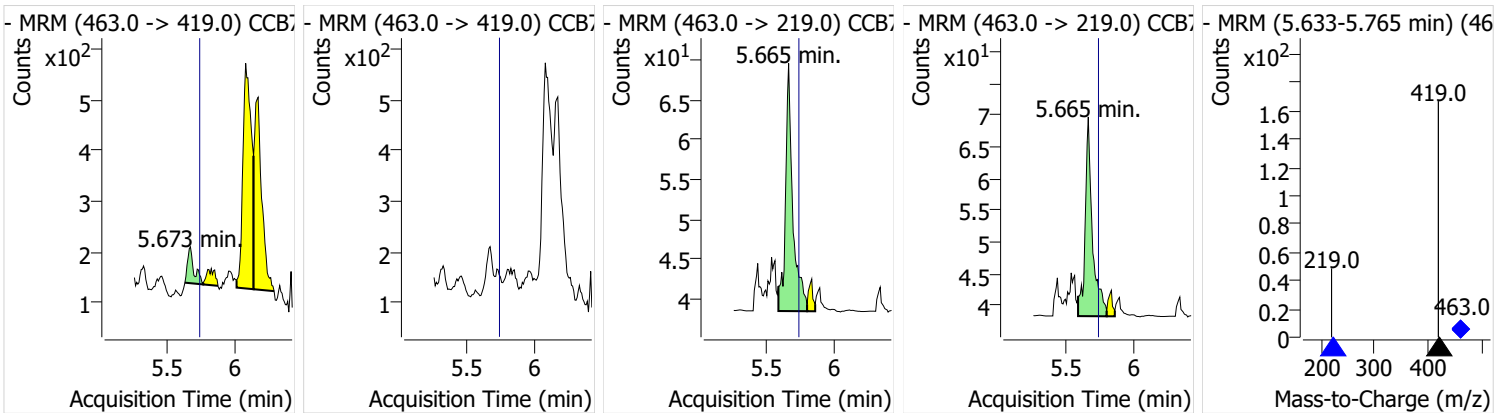

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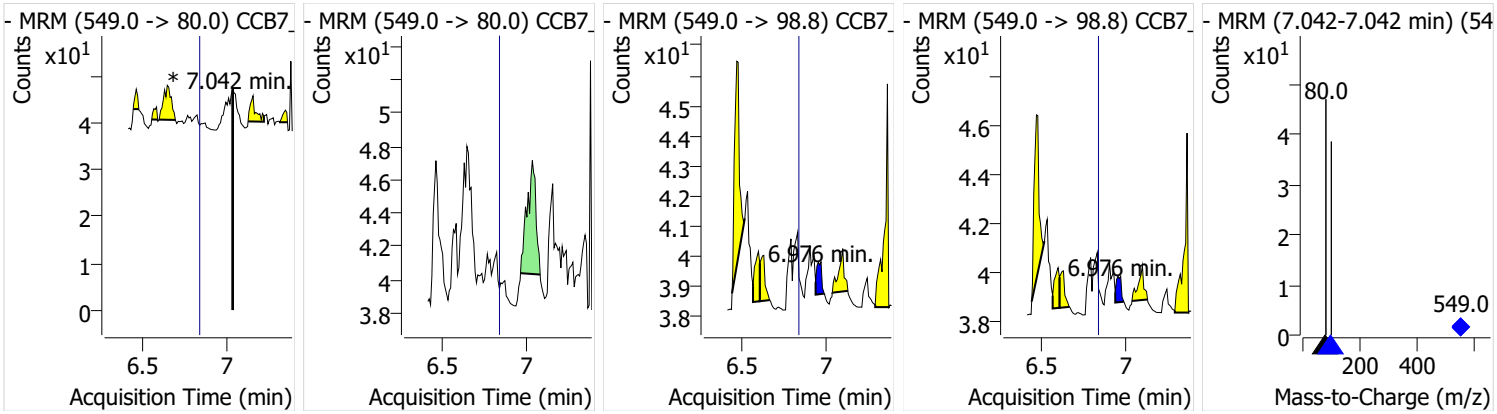

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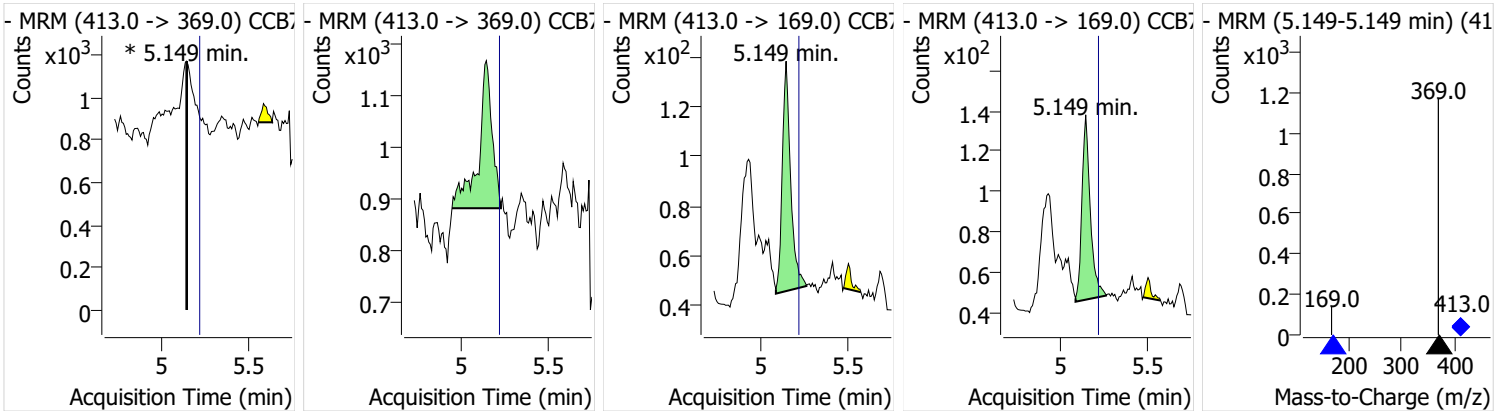

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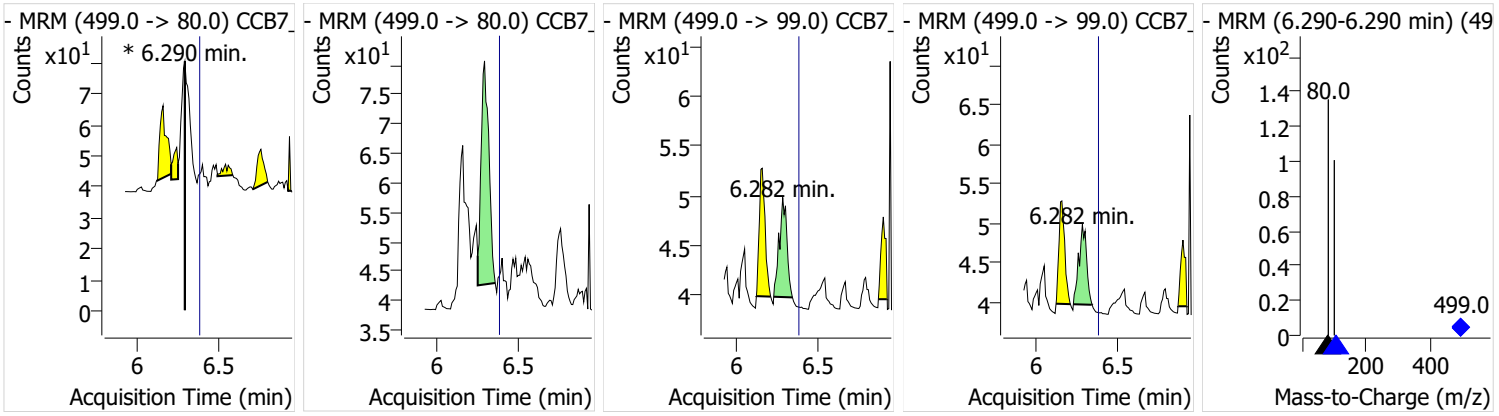

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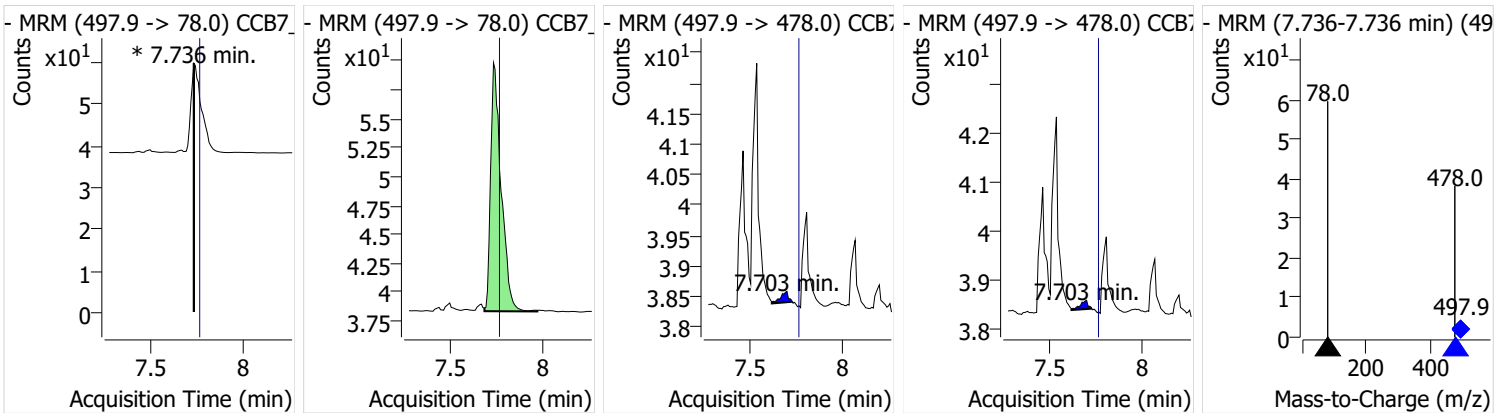

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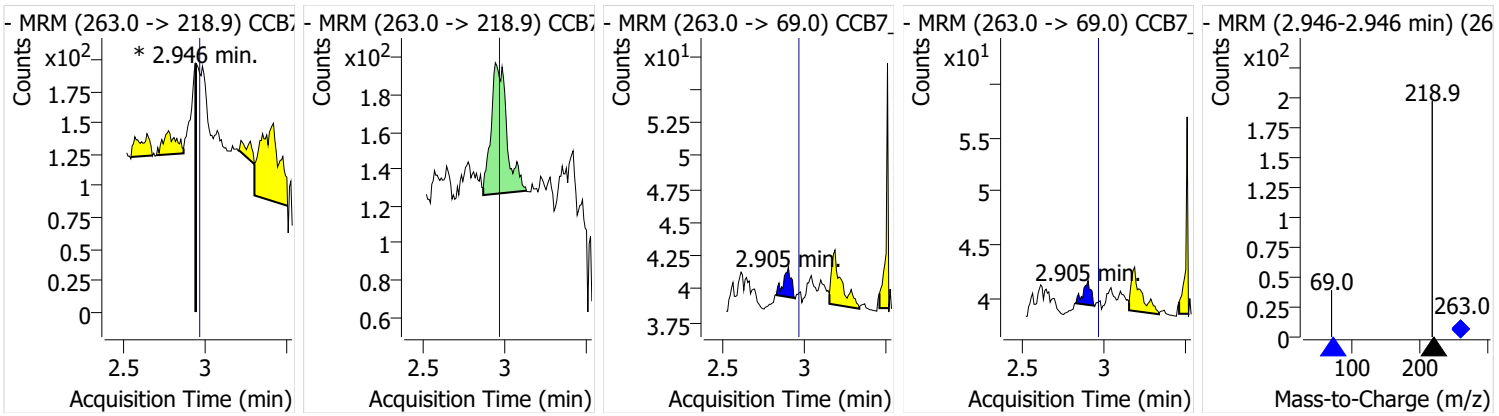

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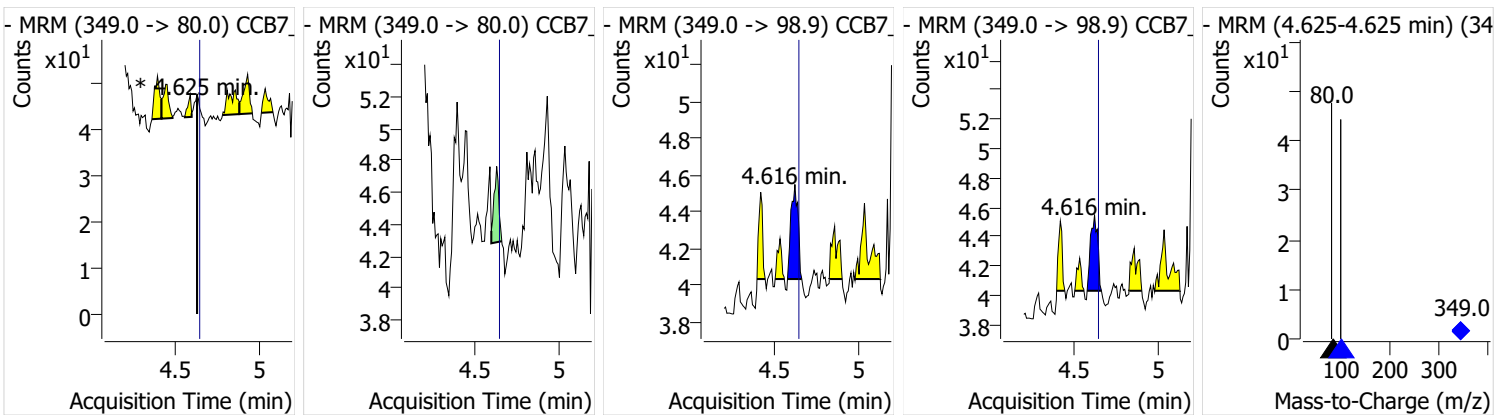

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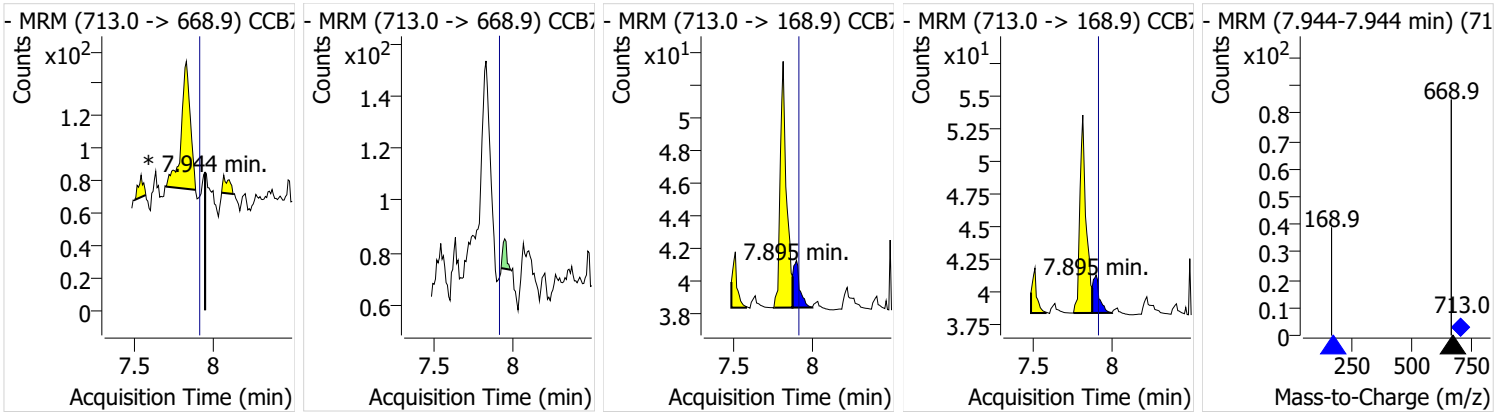

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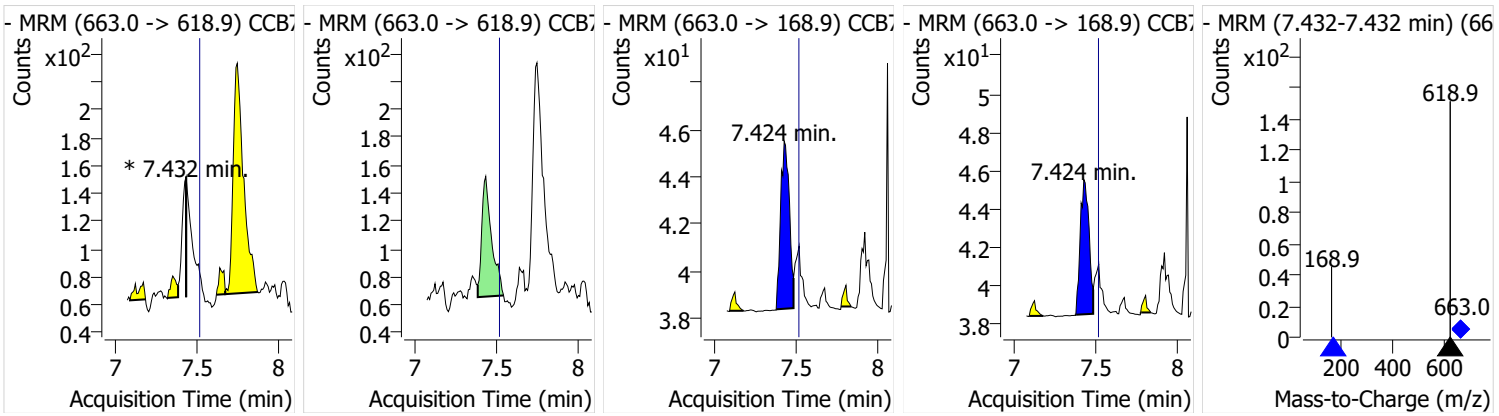

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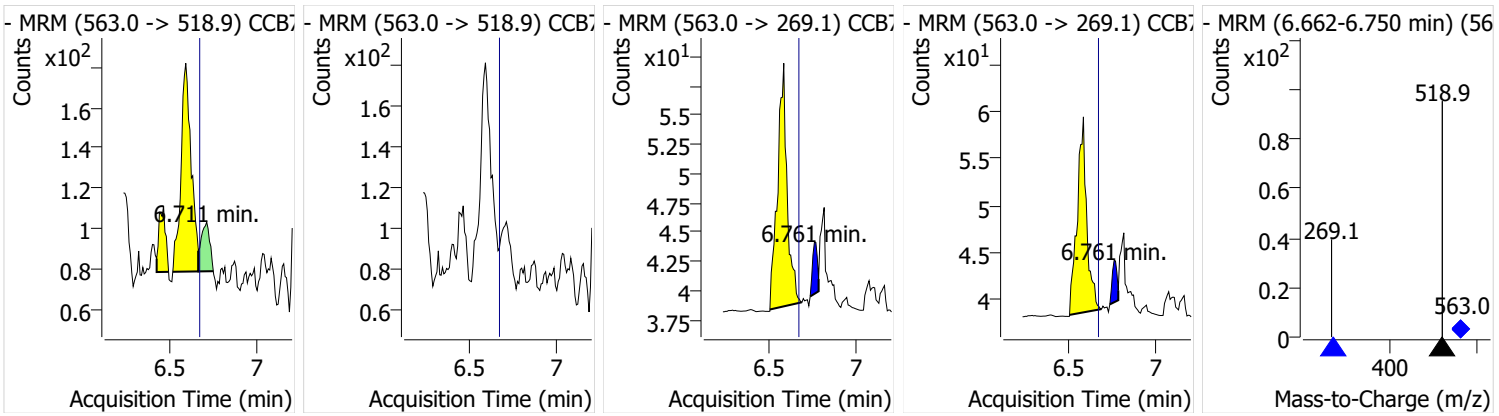

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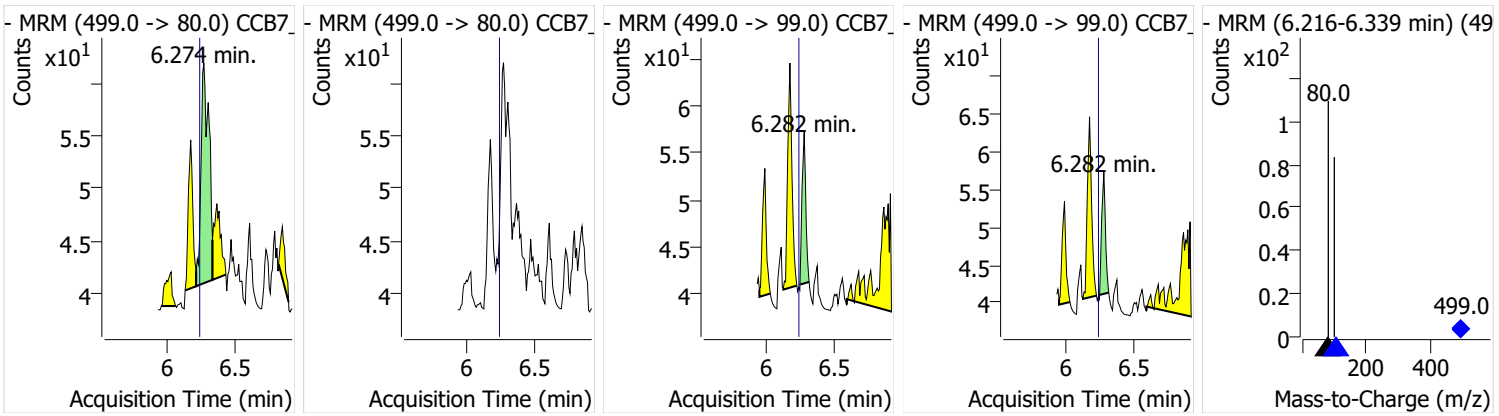

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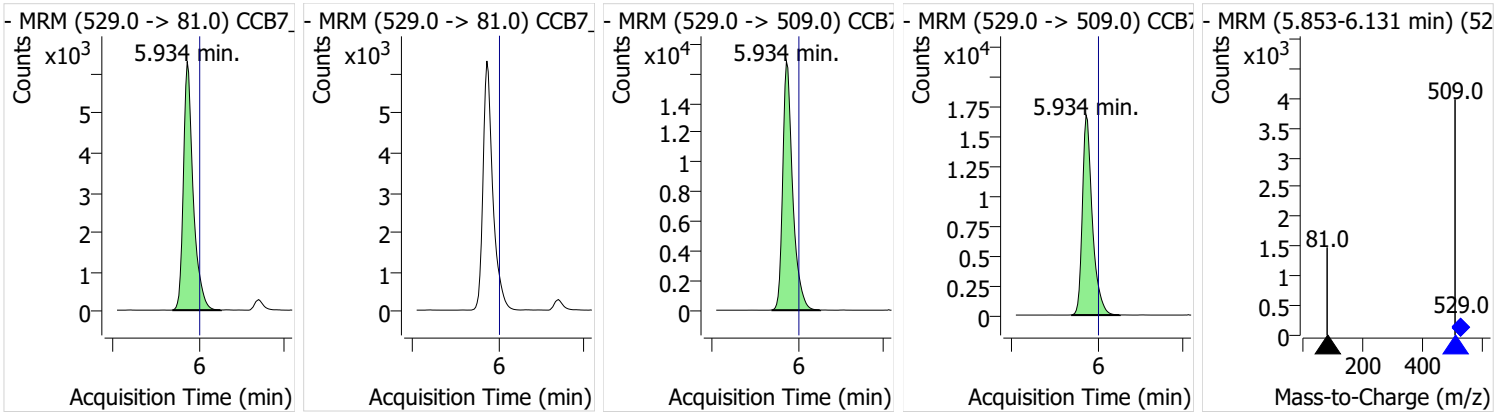

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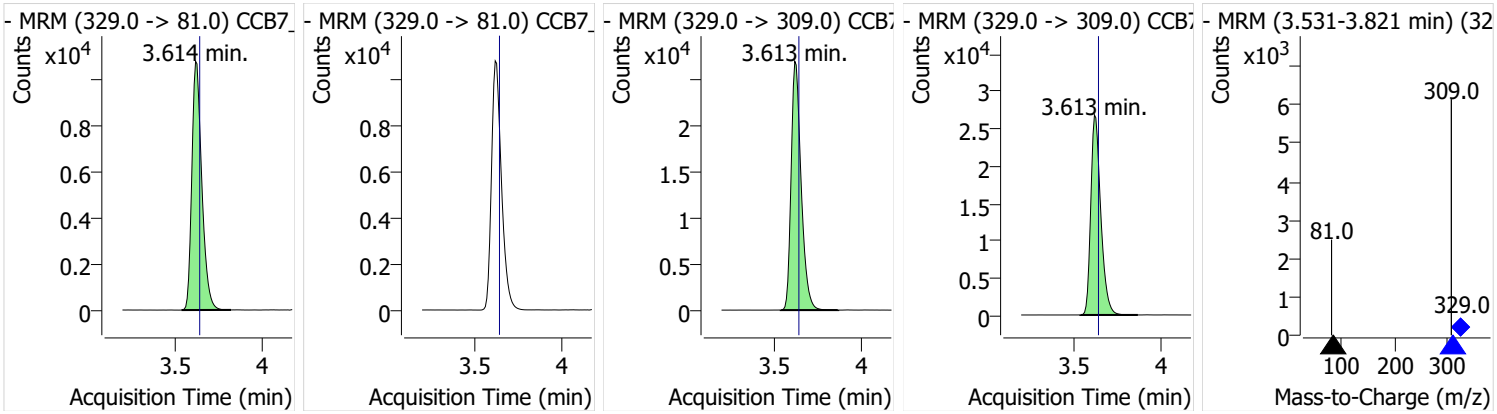

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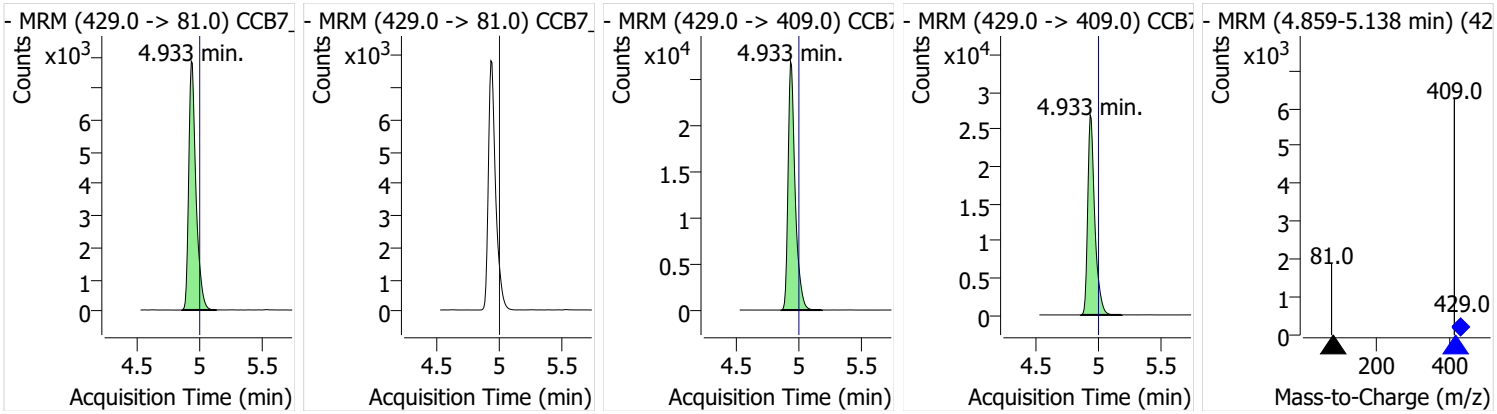

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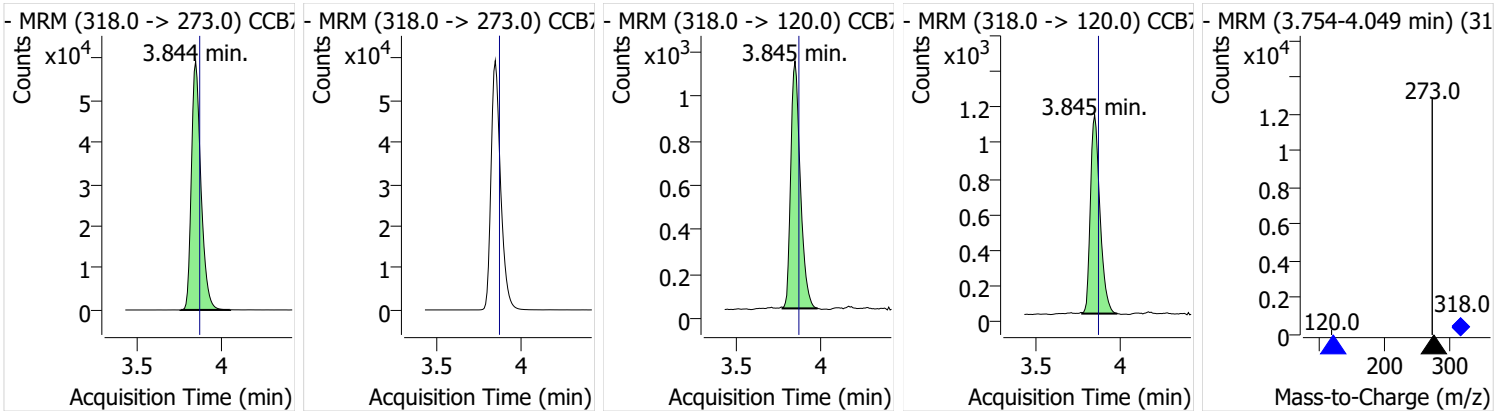

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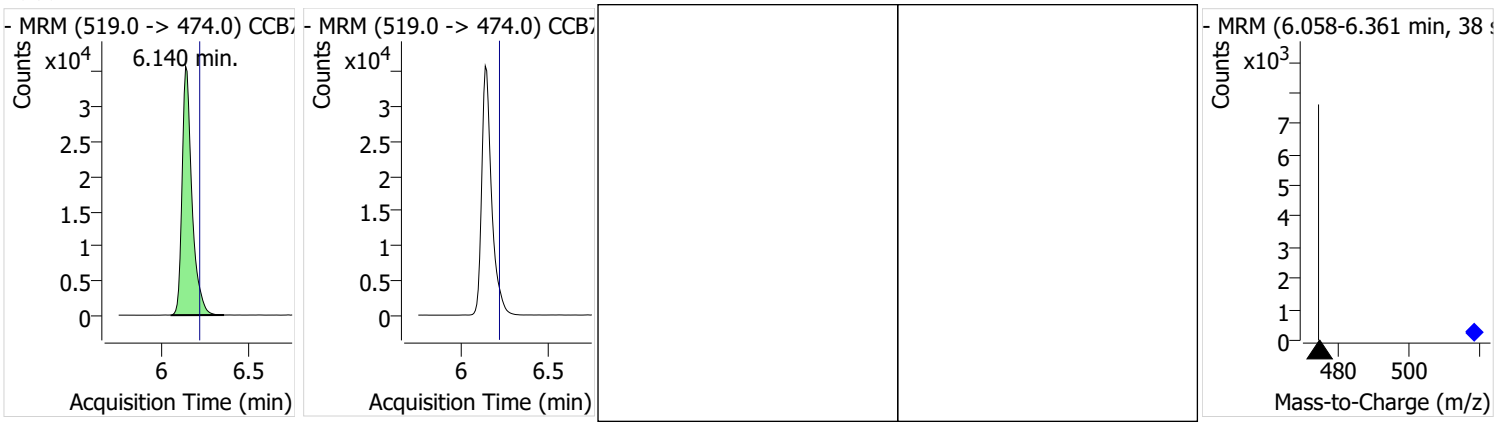

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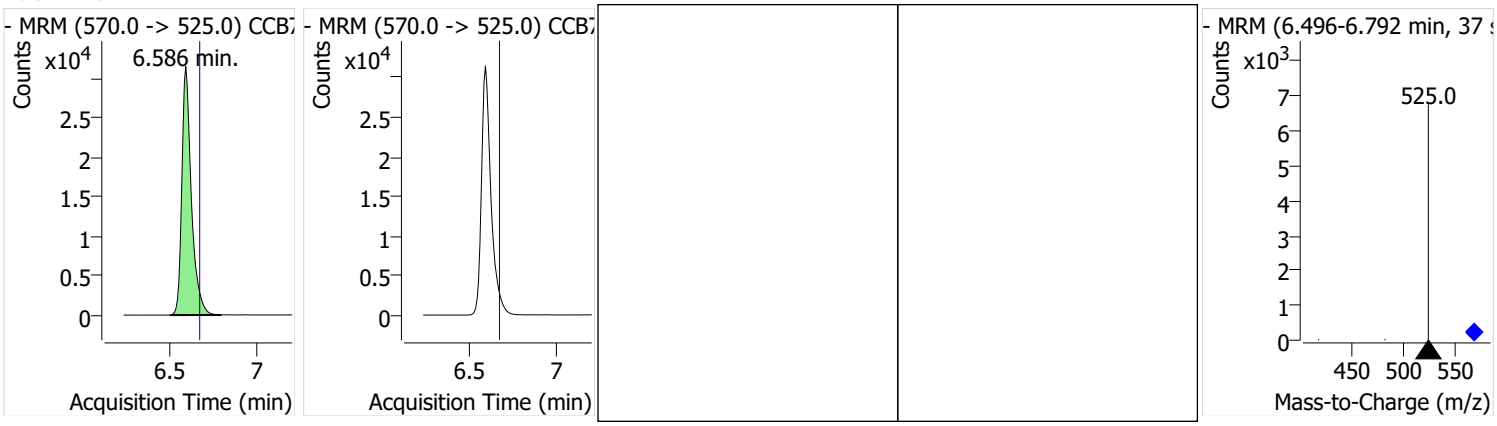

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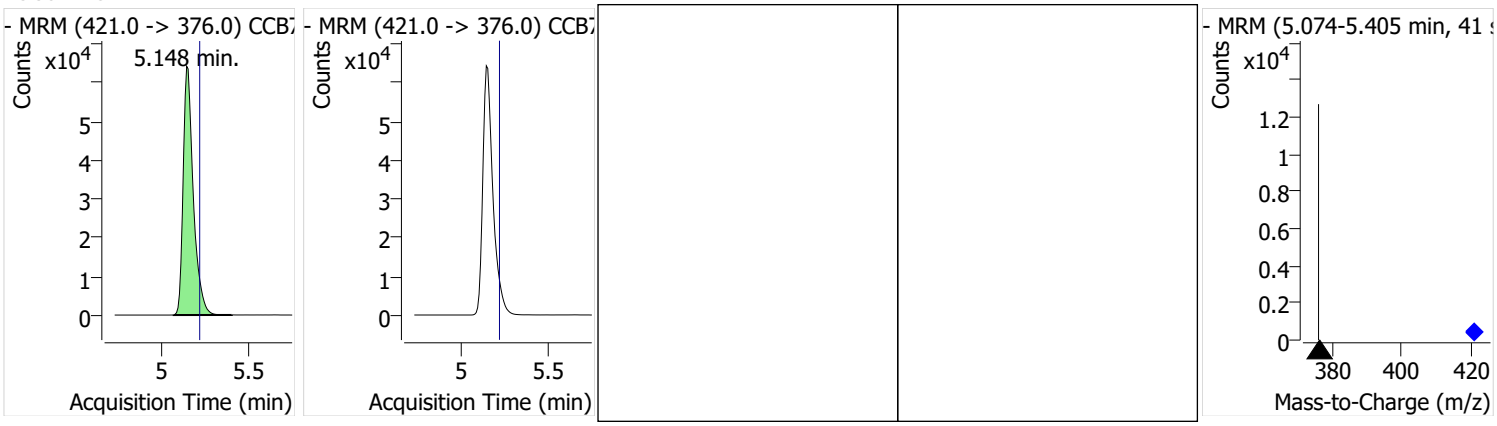

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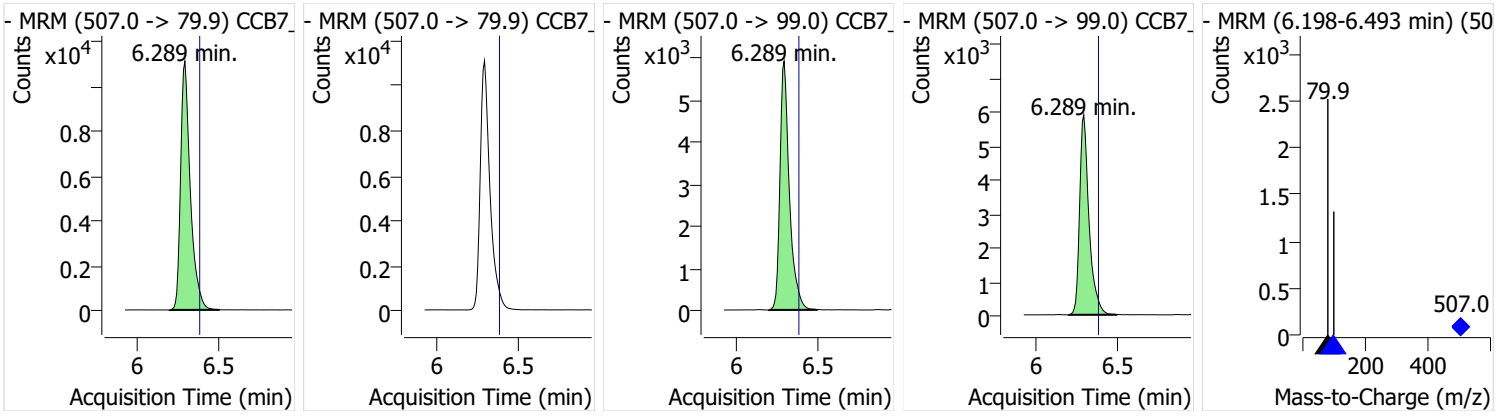

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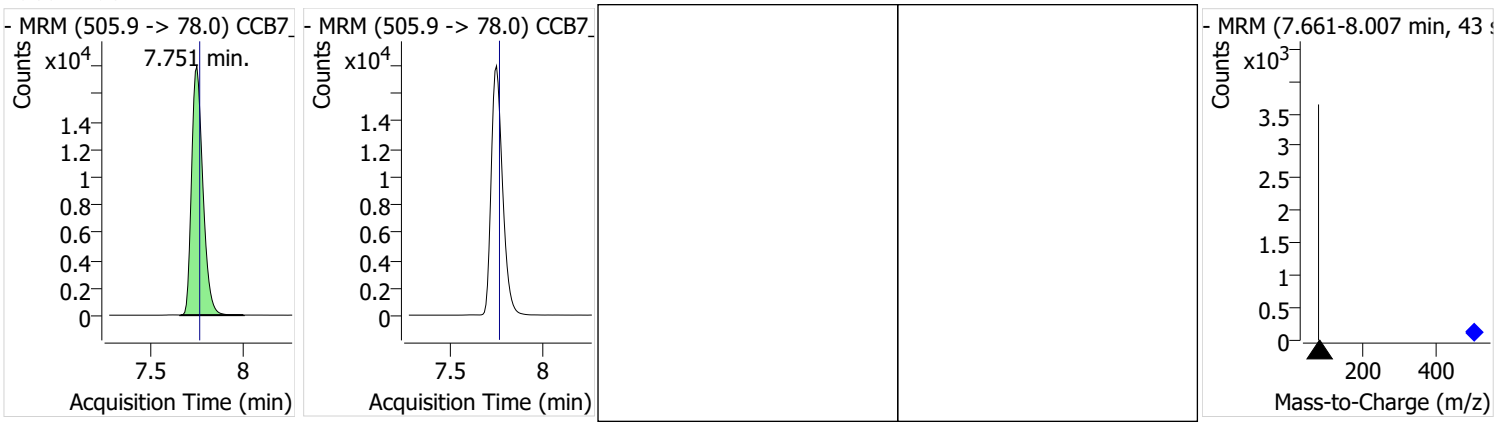
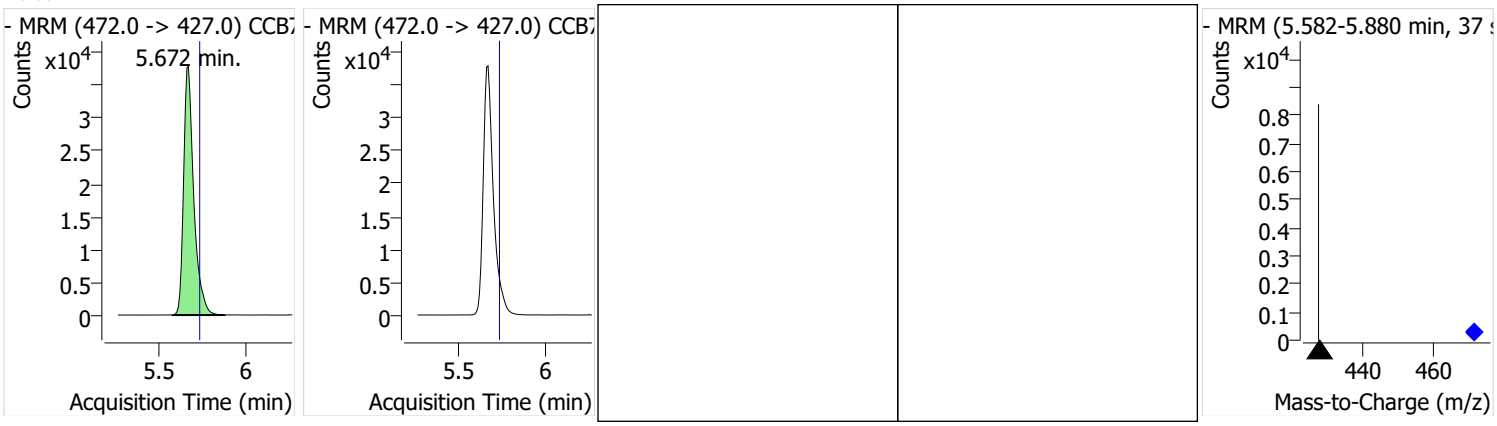
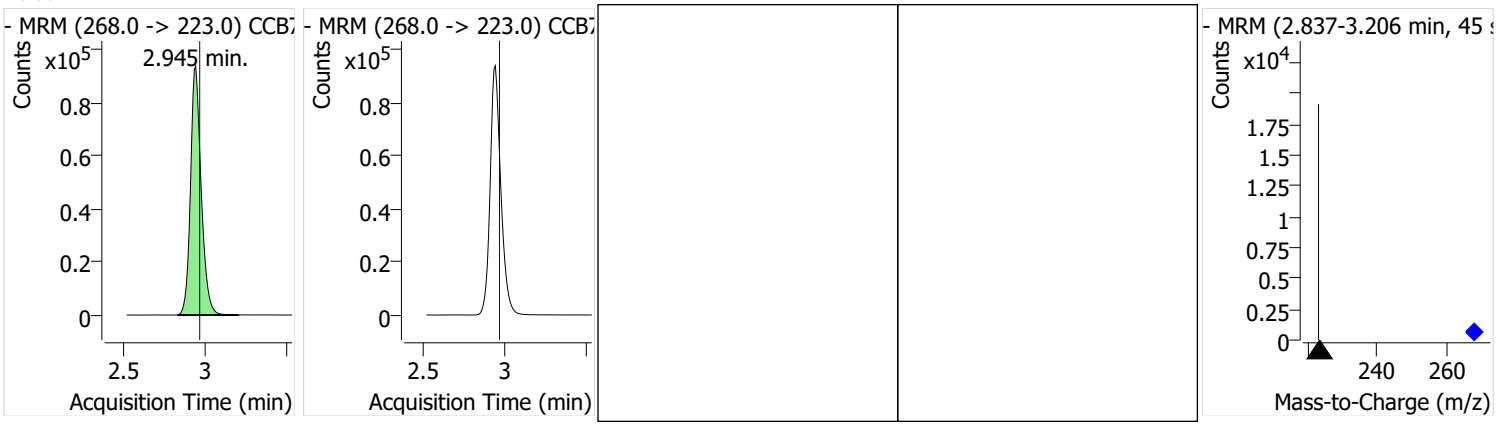


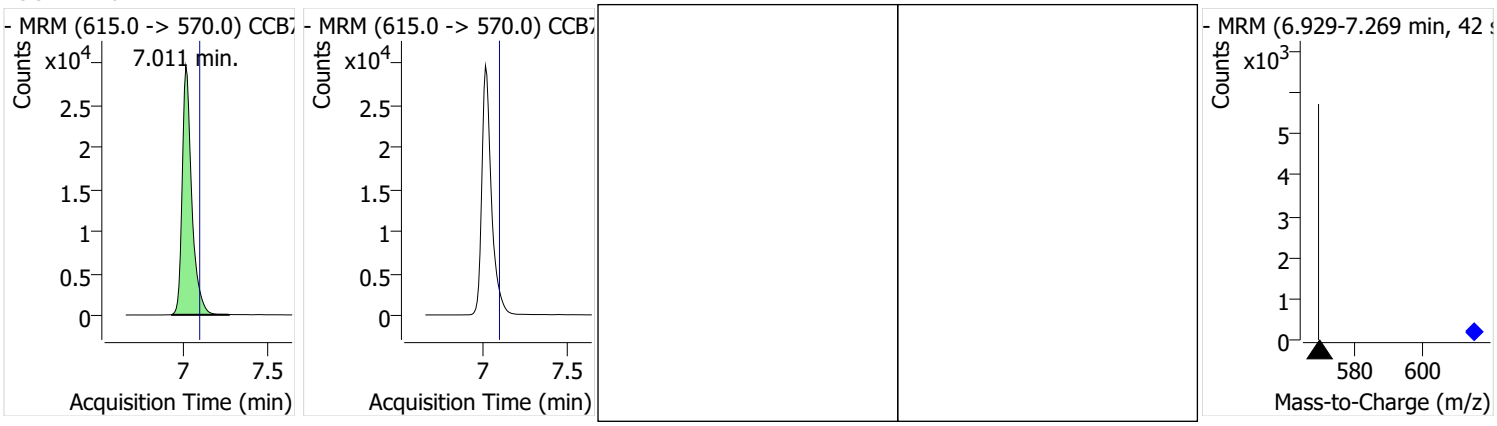
13C9-PFNA



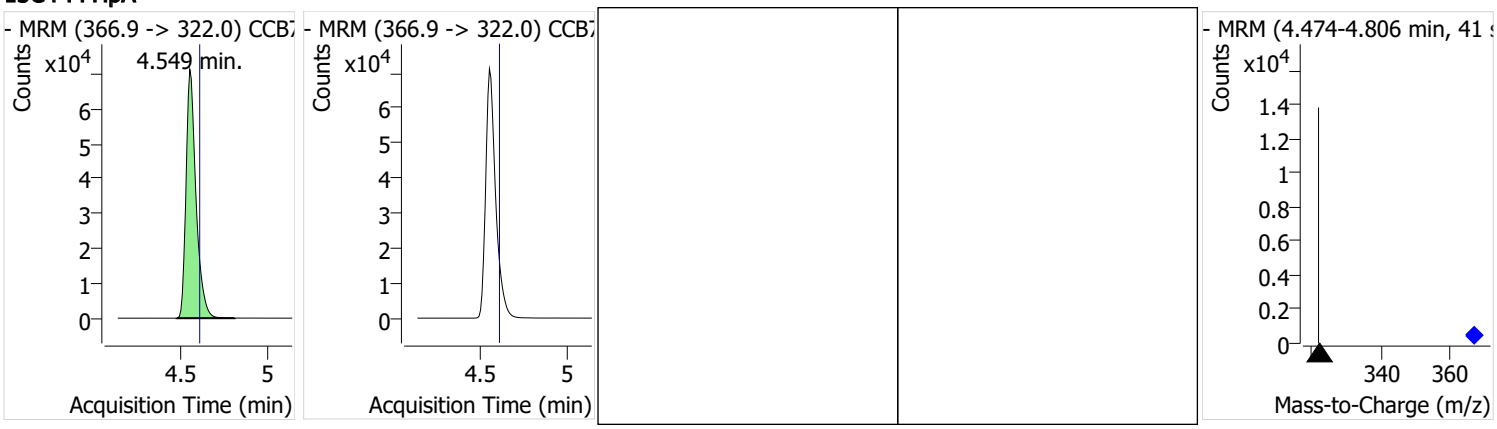
13C5-PFPeA



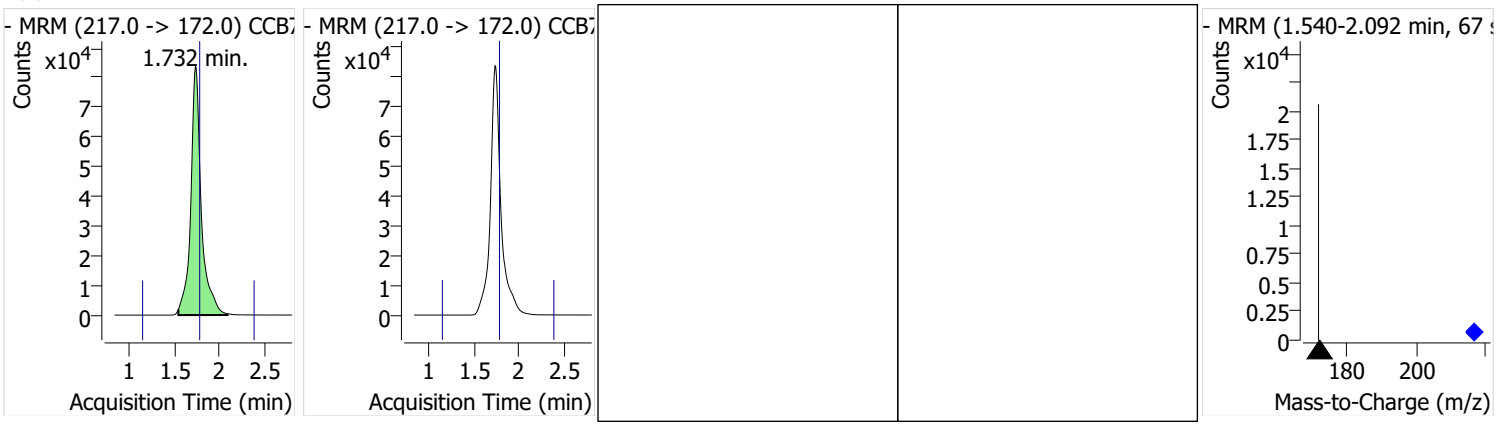
13C2-PFDoA



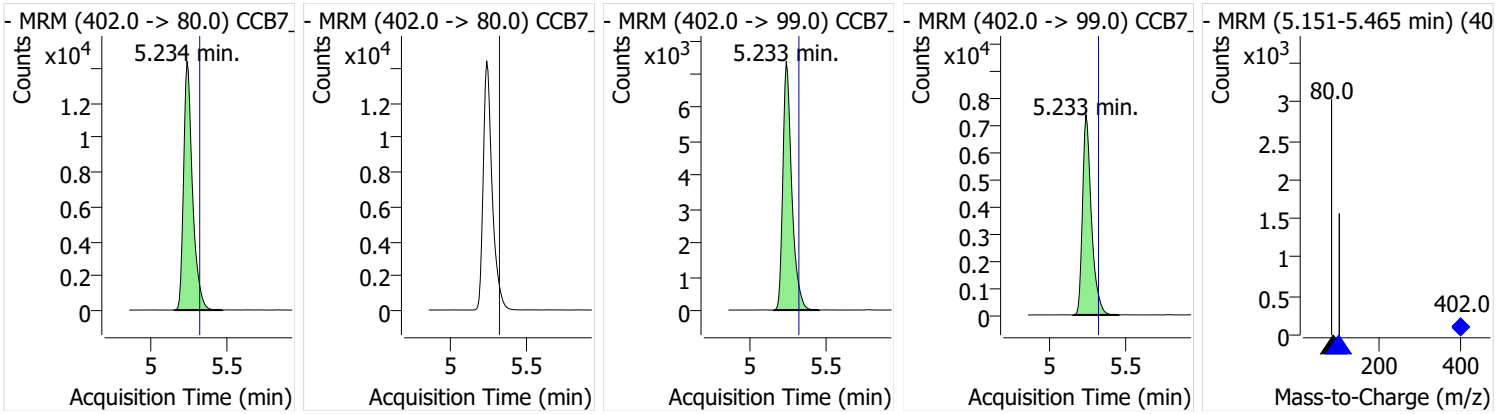
13C4-PFHpA



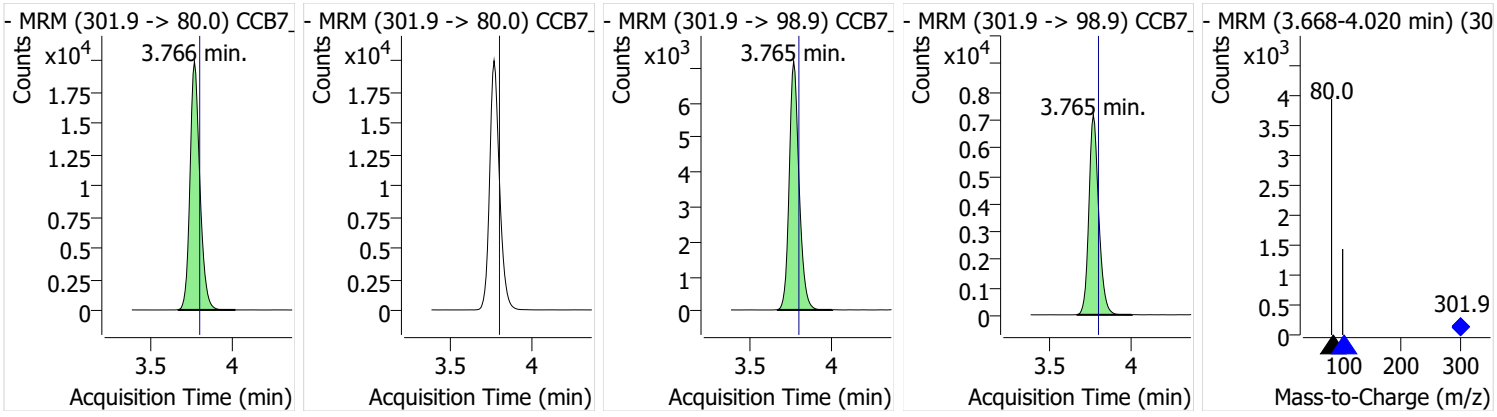
13C4-PFBA



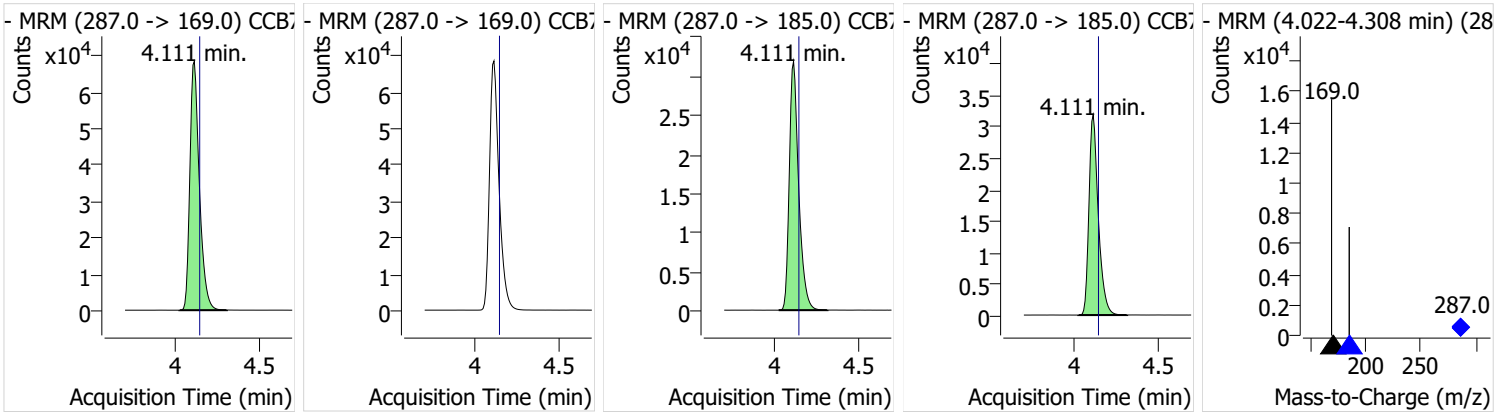
13C3-PFHxS



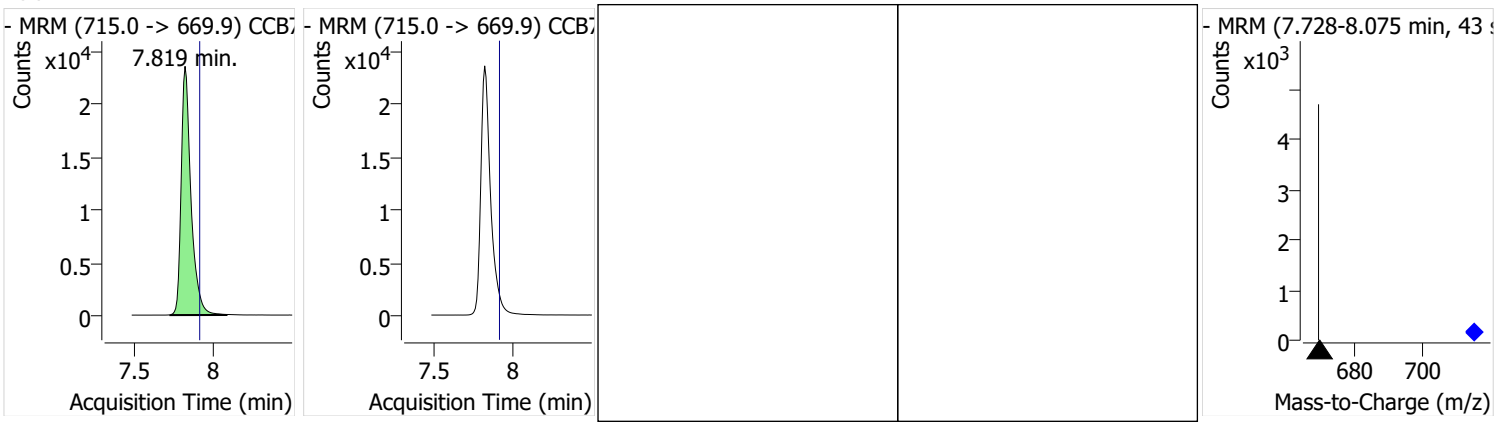
13C3-PFBS



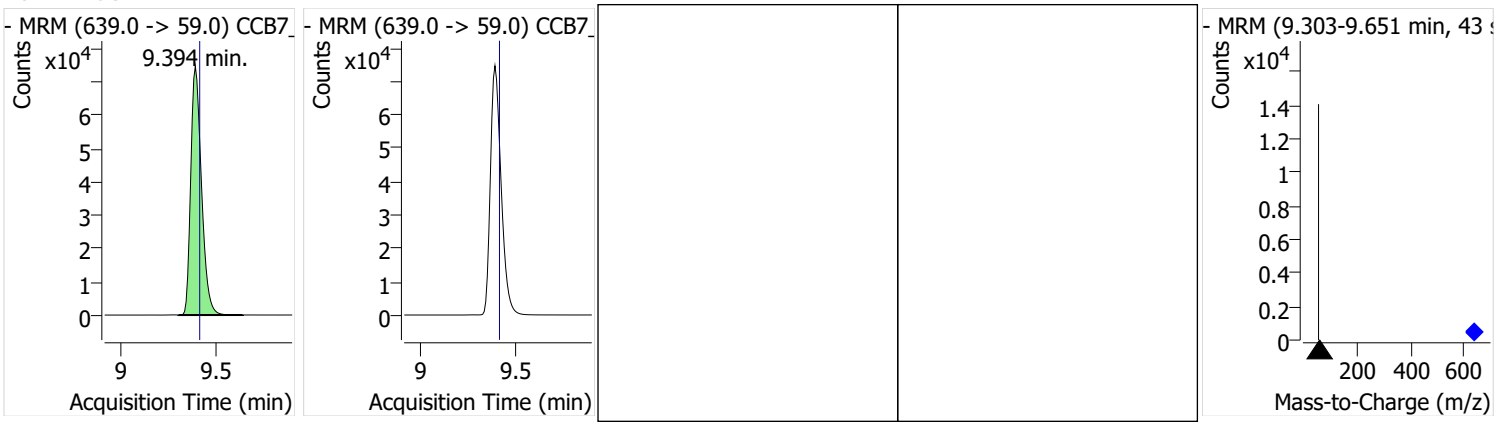
13C3-HFPODA



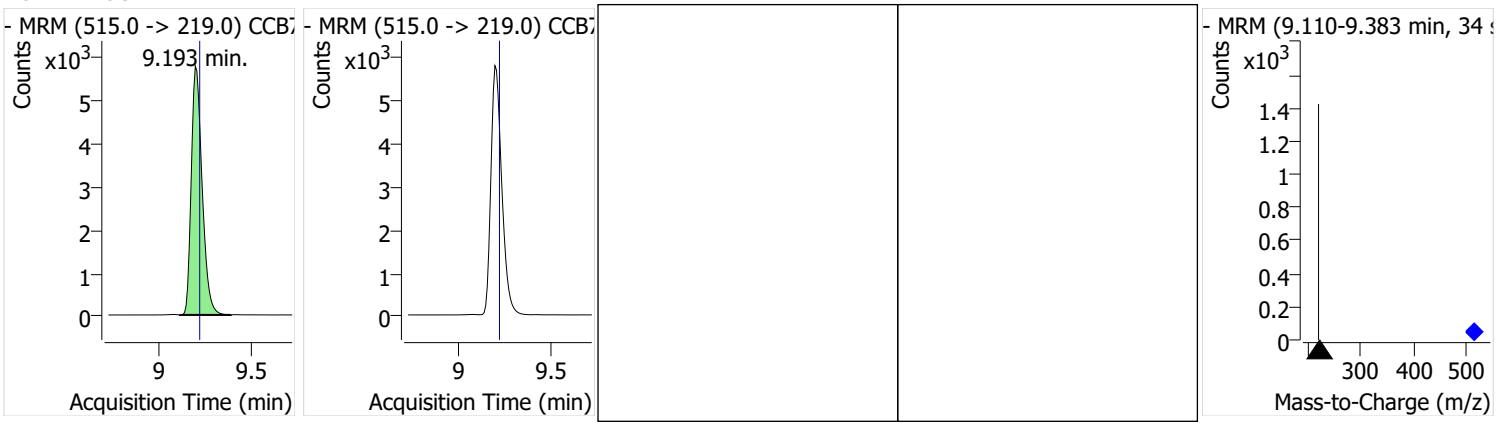
13C2-PFTeDA



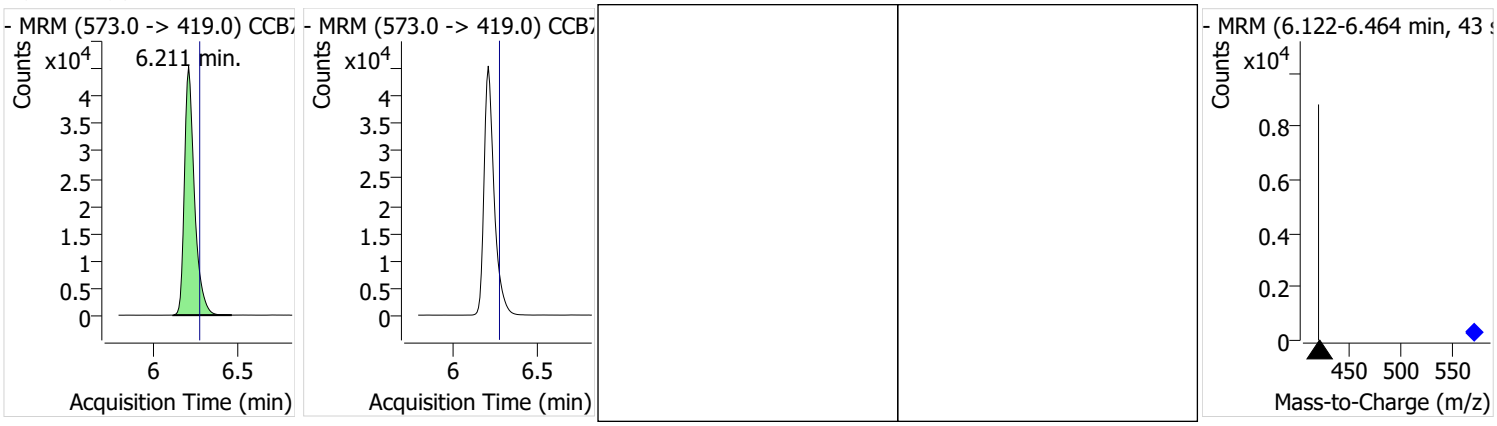
D9-NEtFOSE



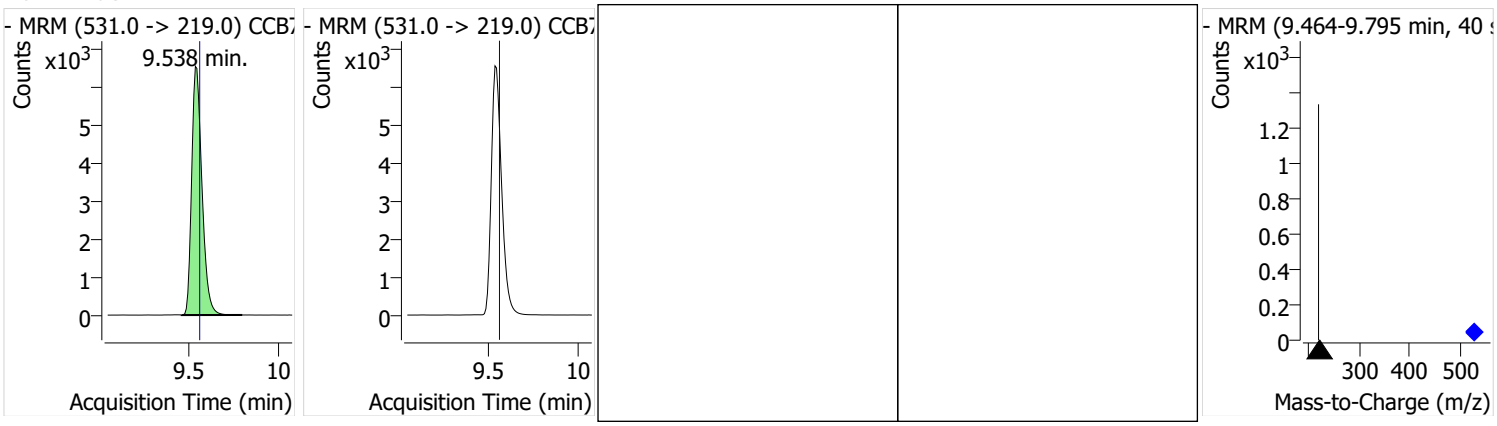
D3-NMeFOSA



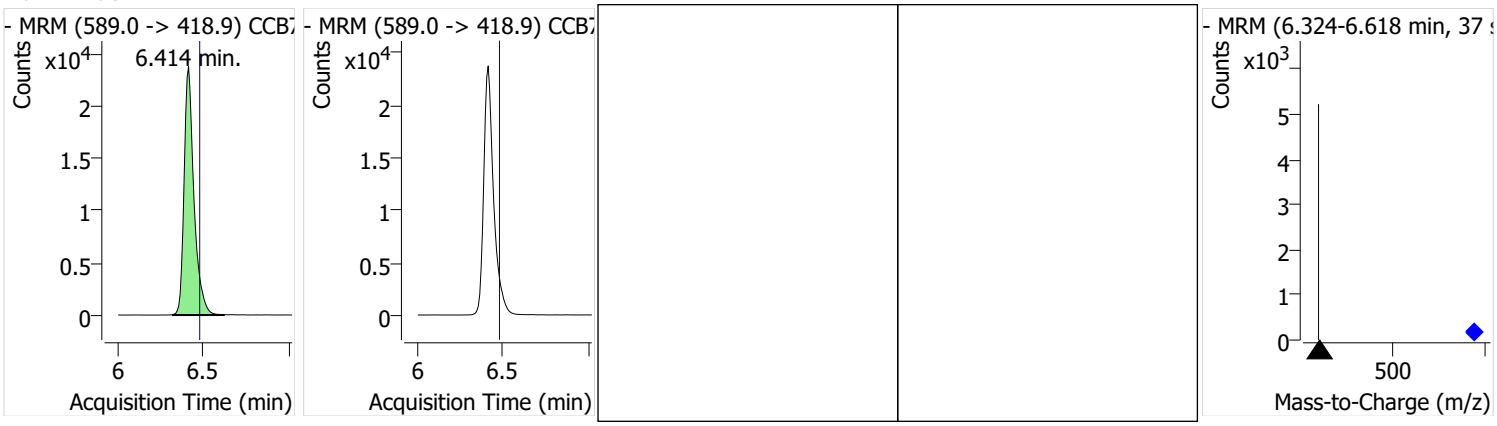
D3-NMeFOSAA



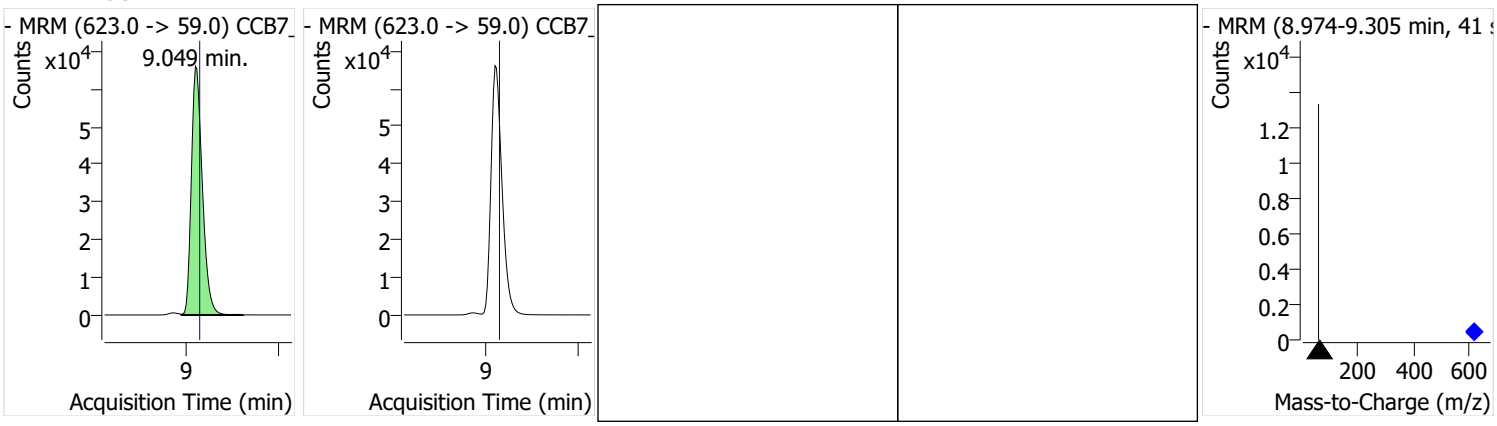
D5-NEtFOSA



D5-NEtFOSAA



D7-NMeFOSE



1 - FORM I
ANALYSIS DATA SHEET

Calibration Blank

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	S104823-CCB3	File ID:	CCB8_1633_051724.d
Sampled:		Prepared:	05/17/24 00:00	Analyzed:	05/18/24 10:55
Solids:		Preparation:	B374213	Dilution:	
Batch:	S104823	Sequence:	S104823	Calibration:	2400518
Instrument:	QQQ6				
Column:	1				

CAS NO.	COMPOUND	CONC. (ng/mL)	MDL	RL	Q
375-22-4	Perfluorobutanoic acid (PFBA)	0.0	0.32	0.80	
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.0	0.046	0.40	
307-24-4	Perfluorohexanoic acid (PFHxA)	0.0	0.033	0.20	
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.0	0.015	0.20	
335-67-1	Perfluorooctanoic acid (PFOA)	0.0	0.031	0.20	
375-95-1	Perfluorononanoic acid (PFNA)	0.0	0.014	0.20	
335-76-2	Perfluorodecanoic acid (PFDA)	0.0	0.018	0.20	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.0	0.023	0.20	
307-55-1	Perfluorododecanoic acid (PFDoA)	0.0	0.022	0.20	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.0	0.022	0.20	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.0	0.020	0.20	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.0	0.021	0.20	
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.0	0.026	0.20	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.0	0.079	0.20	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.0	0.021	0.20	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.0	0.032	0.20	
68259-12-1	Perfluorononanesulfonic acid (PFNS)	0.0	0.022	0.20	
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.0	0.032	0.20	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	0.0	0.031	0.20	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (	0.0	0.070	0.80	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid ((	0.0	0.50	0.80	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (	0.0	0.093	0.80	
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.0	0.031	0.20	
31506-32-8	N-methyl perfluoroocatnesulfonamide (NMeF	0.0	0.025	0.20	
4151-50-2	N-ethyl perfluorooctanesulfonamide (NEtFOS	0.0	0.023	0.20	
2355-31-9	N-MeFOSAA (NMeFOSAA)	0.0	0.036	0.20	
2991-50-6	N-EtFOSAA (NEtFOSAA)	0.0	0.030	0.20	
24448-09-7	N-methylperfluorooctanesulfonamidoethanol(	0.0	0.22	2.0	
1691-99-2	N-ethylperfluorooctanesulfonamidoethanol (N	0.0	0.22	2.0	
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPC	0.0	0.051	0.80	

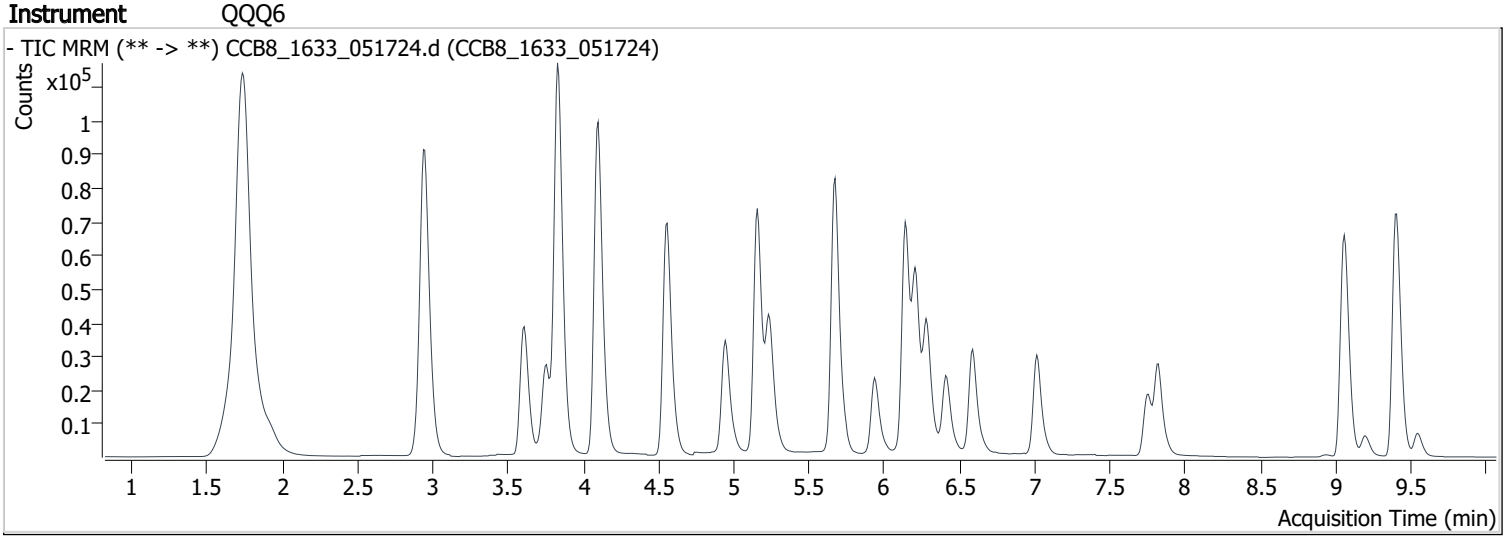
1 - FORM I
ANALYSIS DATA SHEET

Calibration Blank

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	S104823-CCB3	File ID:	CCB8_1633_051724.d
Sampled:		Prepared:	05/17/24 00:00	Analyzed:	05/18/24 10:55
Solids:		Preparation:	B374213	Dilution:	
Batch:	S104823	Sequence:	S104823	Calibration:	2400518
Instrument:	QQQ6				
Column:	1				

CAS NO.	COMPOUND	CONC. (ng/mL)	MDL	RL	Q
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADON/	0.0	0.060	0.80	
756426-58-1	9Cl-PF3ONS (F53B Minor)	0.0	0.058	0.80	
763051-92-9	11Cl-PF3OUdS (F53B Major)	0.0	0.089	0.80	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)(3:3	0.0	0.19	2.0	
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)	0.0	1.3	10	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)(7:3	0.0	1.5	10	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEE	0.0	0.032	0.40	
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.0	0.033	0.40	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	0.0	0.033	0.40	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.0	0.060	0.40	

Batch Path	R:\Data\MAY2024\051724\QuantResults\1633_CCVS_CORRECTED.batch.bin		
Analysis Time	5/20/2024 3:06 PM	**Last Calib Update**	5/9/2024 9:16 AM
Acq. Time	5/18/2024 10:55 AM	**Data File**	CCB8_1633_051724.d
Sample Type	Sample	**Sample Name**	CCB8_1633_051724
Dilution	1	**Acq. Method**	1633_ACQUISITION_01.m
Sample Comment	E#24E0458	**Processing method**	1633_050824.m
Instrument	QQQ6		



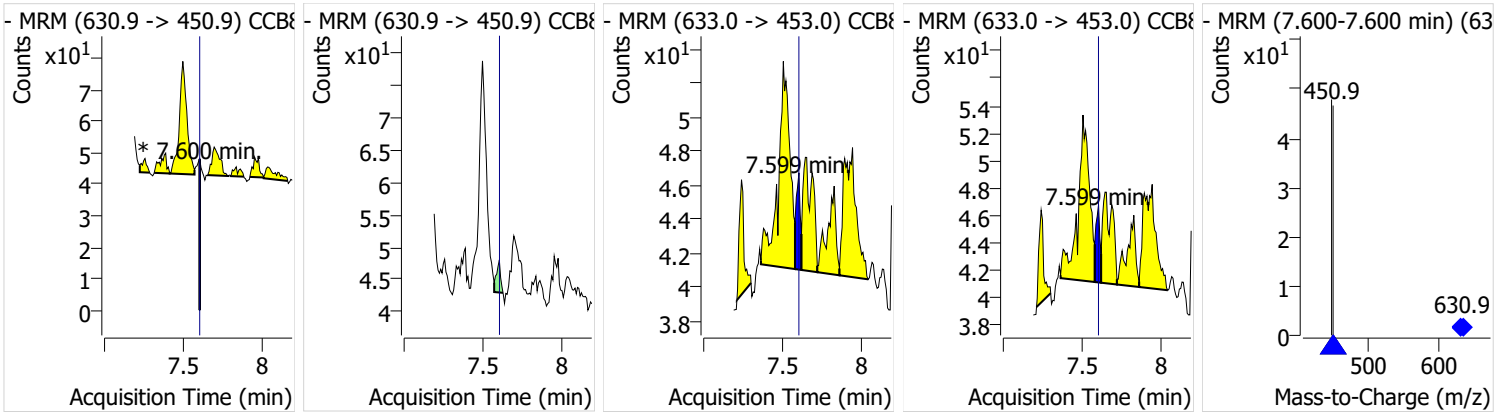
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
11Cl-PF3OUdS	7.600	0			13C3-HFPODA - ISTD	4.103	268244	-	ng/ml	✔	1	ALB 5/20/24
633.0 -> 453.0				*								
3:3FTCA	2.557	0			13C5-PFPeA - ISTD	2.937	421044	-	ng/ml	✔	1	ALB 5/20/24
241.0 -> 117.0				*								
4:2FTS	3.590	0			13C2-4:2FTS - ISTD	3.605	43568	-	ng/ml	✔	1	ALB 5/20/24
327.0 -> 80.9				*								
5:3FTCA	4.326	0			13C5-PFHxA - ISTD	3.828	233046	-	ng/ml	✔	1	ALB 5/20/24
341.0 -> 217.0				*								
6:2FTS	4.942	0			13C2-6:2FTS - ISTD	4.941	31277	-	ng/ml	✔	1	ALB 5/20/24
427.0 -> 80.9				*								
7:3FTCA	5.674	0			13C5-PFHxA - ISTD	3.828	233046	-	ng/ml	✔	1	ALB 5/20/24
441.0 -> 317.0				*								
8:2FTS	6.025	0			13C2-8:2FTS - ISTD	5.934	24483	-	ng/ml	✔	1	ALB 5/20/24
527.0 -> 81.0				*								
9Cl-PF3ONS	6.745	0			13C3-HFPODA - ISTD	4.103	268244	-	ng/ml	✔	1	ALB 5/20/24
533.0 -> 353.0				*								
ADONA	4.789	0			13C3-HFPODA - ISTD	4.103	268244	-	ng/ml	✔	1	ALB 5/20/24
377.0 -> 85.1				*								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA	4.104	0			13C3-HFPODA - ISTD	4.103	268244	-	ng/ml	✔	1	ALB 5/20/24
285.0 -> 184.9				*								
NEtFOSA	9.573	0			D5-NEtFOSA - ISTD	9.546	24994	-	ng/ml	✔	1	ALB 5/20/24
526.0 -> 219.0				*								
NEtFOSAA	6.415	0			D5-NEtFOSAA - ISTD	6.406	92156	-	ng/ml	✔	1	ALB 5/20/24
584.0 -> 526.0				*								
NEtFOSE	9.428	0			D9-NEtFOSE - ISTD	9.403	289228	-	ng/ml	✔	1	ALB 5/20/24
NFDHA	3.742	0			13C5-PFHxA - ISTD	3.828	233046	-	ng/ml	✔	1	ALB 5/20/24
295.0 -> 85.0				*								
NMeFOSA	9.203	0			D3-NMeFOSA - ISTD	9.201	22899	-	ng/ml	✔	1	ALB 5/20/24
512.0 -> 219.0				*								
NMeFOSAA	6.220	0			D3-NMeFOSAA - ISTD	6.211	180750	-	ng/ml	✔	1	ALB 5/20/24
570.0 -> 418.9				*								
NMeFOSE	9.074	0			D7-NMeFOSE - ISTD	9.057	265733	-	ng/ml	✔	1	ALB 5/20/24
PFBA	1.729	0			13C4-PFBA - ISTD	1.732	679098	-	ng/ml	✔	1	ALB 5/20/24
PFBS	3.750	0			13C3-PFBS - ISTD	3.757	84016	-	ng/ml	✔	1	ALB 5/20/24
298.9 -> 98.8				*								
PFDA	6.116	0			13C6-PFDA - ISTD	6.140	138855	-	ng/ml	✔	1	ALB 5/20/24
513.0 -> 219.0				*								
PFDoA	7.012	0			13C2-PFDoA - ISTD	7.011	119749	-	ng/ml	✔	1	ALB 5/20/24
613.0 -> 319.0				*								
PFDoS	8.111	0			13C8-PFOS - ISTD	6.281	43303	-	ng/ml	✔	1	ALB 5/20/24
698.9 -> 99.0				*								
PFDS	7.296	0			13C8-PFOS - ISTD	6.281	43303	-	ng/ml	✔	1	ALB 5/20/24
599.0 -> 98.8				*								
PFEESA	4.116	0			13C5-PFHxA - ISTD	3.828	233046	-	ng/ml	✔	1	ALB 5/20/24
315.0 -> 83.0				*								
PFHpA	4.542	0			13C4-PFHpA - ISTD	4.558	280114	-	ng/ml	✔	1	ALB 5/20/24
362.9 -> 169.0				*								
PFHpS	5.922	0			13C8-PFOS - ISTD	6.281	43303	-	ng/ml	✔	1	ALB 5/20/24
449.0 -> 98.8				*								

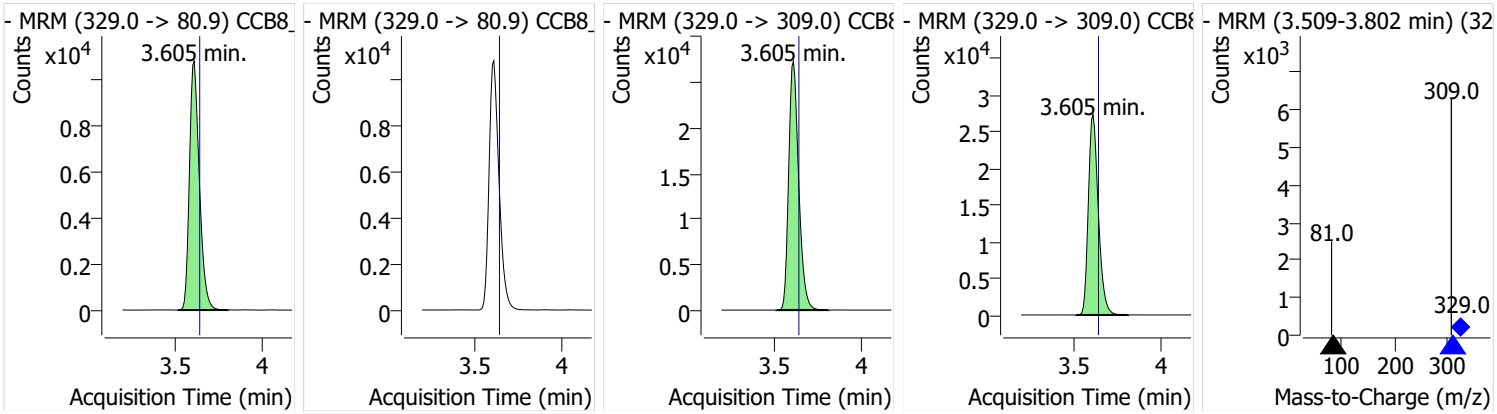
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFHxA	3.822	0			13C5-PFHxA - ISTD	3.828	233046	-	ng/ml	✔	1	ALB 5/20/24
313.0 -> 118.9				*								
PFHxS	5.243	0			13C3-PFHxS - ISTD	5.242	58183	-	ng/ml	✔	1	ALB 5/20/24
398.9 -> 99.0				*								
PFMBA	3.246	0			13C5-PFPeA - ISTD	2.937	421044	-	ng/ml	✔	1	ALB 5/20/24
PFMPA	2.258	0			13C5-PFPeA - ISTD	2.937	421044	-	ng/ml	✔	1	ALB 5/20/24
PFNA	5.665	335	16.93		13C9-PFNA - ISTD	5.672	0	-	ng/ml			
463.0 -> 219.0			14.09	10.8								
PFNS	6.794	0			13C8-PFOS - ISTD	6.281	43303	-	ng/ml	✔	1	ALB 5/20/24
549.0 -> 98.8				*								
PFOA	5.157	0			13C8-PFOA - ISTD	5.156	255078	-	ng/ml	✔	1	ALB 5/20/24
413.0 -> 169.0				*								
PFOS	6.470	0			13C8-PFOS - ISTD	6.281	43303	-	ng/ml	✔	1	ALB 5/20/24
499.0 -> 99.0				*								
PFOSA	7.761	0			13C8-PFOSA - ISTD	7.751	73637	-	ng/ml	✔	1	ALB 5/20/24
497.9 -> 478.0				*								
PFPeA	2.946	0			13C5-PFPeA - ISTD	2.937	421044	-	ng/ml	✔	1	ALB 5/20/24
263.0 -> 69.0				*								
PFPeS	4.682	0			13C3-PFHxS - ISTD	5.242	58183	-	ng/ml	✔	1	ALB 5/20/24
349.0 -> 98.9				*								
PFTeDA	7.811	0			13C2-PFTeDA - ISTD	7.819	103345	-	ng/ml	✔	1	ALB 5/20/24
713.0 -> 168.9				*								
PFTrDA	7.415	0			13C2-PFDoA - ISTD	7.011	119749	-	ng/ml	✔	1	ALB 5/20/24
663.0 -> 168.9				*								
PFUnA	6.719	43	5.33		13C7-PFUnA - ISTD	6.586	0	-	ng/ml			
563.0 -> 269.1			59.27	***149.8**								
TDCA	6.167	90	15.98					-	ng/ml			
499.0 -> 99.0			8.74	19.8								
13C2-8:2FTS	5.934	24483	3186.85		18O2-PFHxS	5.241	54084	6.8869	ng/ml			
529.0 -> 509.0			52850.78	273.7								
13C2-4:2FTS	3.605	43568	5246.35		18O2-PFHxS	5.241	54084	6.7315	ng/ml			
329.0 -> 309.0			25233.32	254.9								
13C2-6:2FTS	4.941	31277	4894.81		18O2-PFHxS	5.241	54084	7.1515	ng/ml			

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
429.0 -> 409.0			16805.25	329.1								
13C5-PFHxA	3.828	233046	62771.11		13C2-PFHxA	3.829	215515	2.6241	ng/ml			
318.0 -> 120.0			540.14	1.9								
13C6-PFDA	6.140	138855	11292.49		13C2-PFDA	6.140	133915	1.3141	ng/ml			
13C7-PFUnA	6.586	124184	11815.52		13C2-PFDA	6.140	133915	1.4517	ng/ml			
13C8-PFOA	5.156	255078	69164.61		13C4-PFOA	5.157	35025	2.6565	ng/ml			
13C8-PFOS	6.281	43303	6078.96		13C4-PFOS	6.290	45748	2.6329	ng/ml			
507.0 -> 99.0			4898.65	53.5								
13C8-PFOSA	7.751	73637	166121.59		13C4-PFOS	6.290	45748	2.5457	ng/ml			
13C9-PFNA	5.672	153822	17491.87		13C5-PFNA	5.673	171592	1.3145	ng/ml			
13C5-PFPeA	2.937	421044	16137.35		13C2-PFHxA	3.829	215515	5.2901	ng/ml			
13C2-PFDoA	7.011	119749	61173.06		13C2-PFDA	6.140	133915	1.3563	ng/ml			
13C4-PFHpA	4.558	280114	13923.20		13C2-PFHxA	3.829	215515	2.8198	ng/ml			
13C4-PFBA	1.732	679098	118108.52		13C3-PFBA	1.735	298274	10.4865	ng/ml			
13C3-PFHxS	5.242	58183	13459.51		18O2-PFHxS	5.241	54084	2.6343	ng/ml			
402.0 -> 99.0			7447.62	51.1								
13C3-PFBS	3.757	84016	9758.16		18O2-PFHxS	5.241	54084	2.8742	ng/ml			
301.9 -> 98.9			12168.86	34.7								
13C3-HFPODA	4.103	268244	26658.10		13C2-PFHxA	3.829	215515	10.7984	ng/ml			
287.0 -> 185.0			14189.21	46.6								
13C2-PFTeDA	7.819	103345	7640.67		13C2-PFDA	6.140	133915	1.3594	ng/ml			
D9-NEtFOSE	9.403	289228	68103.79		13C4-PFOS	6.290	45748	24.0443	ng/ml			
D3-NMeFOSA	9.201	22899	12088.95		13C4-PFOS	6.290	45748	2.4682	ng/ml			
D3-NMeFOSAA	6.211	180750	33788.14		13C4-PFOS	6.290	45748	6.0990	ng/ml			
D5-NEtFOSA	9.546	24994	14281.02		13C4-PFOS	6.290	45748	2.5826	ng/ml			
D5-NEtFOSAA	6.406	92156	7947.72		13C4-PFOS	6.290	45748	6.1453	ng/ml			
D7-NMeFOSE	9.057	265733	88670.41		13C4-PFOS	6.290	45748	23.6383	ng/ml			

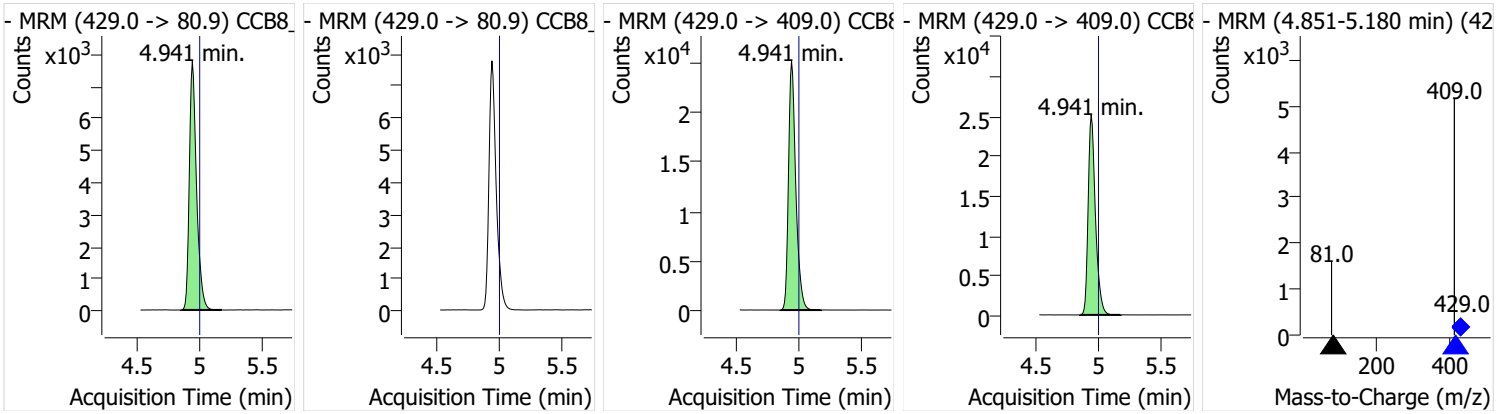
11Cl-PF3OUdS



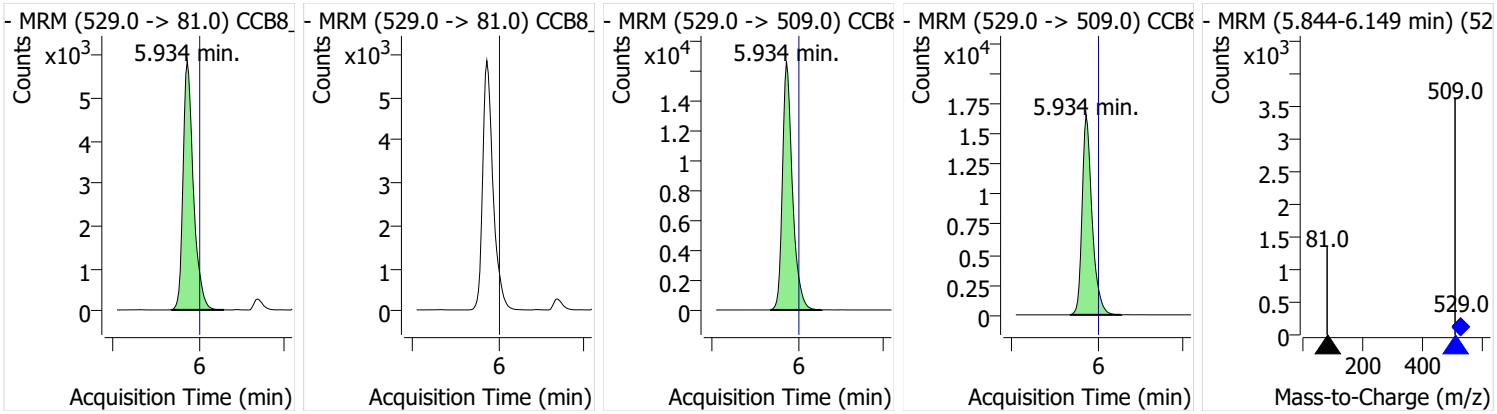
13C2-4:2FTS - ISTD



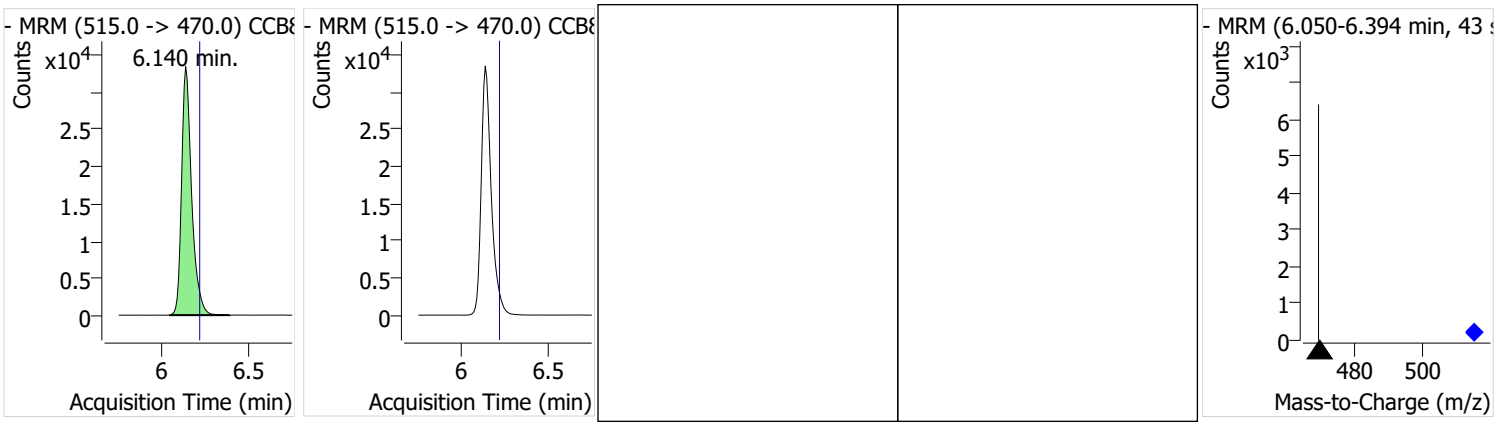
13C2-6:2FTS - ISTD



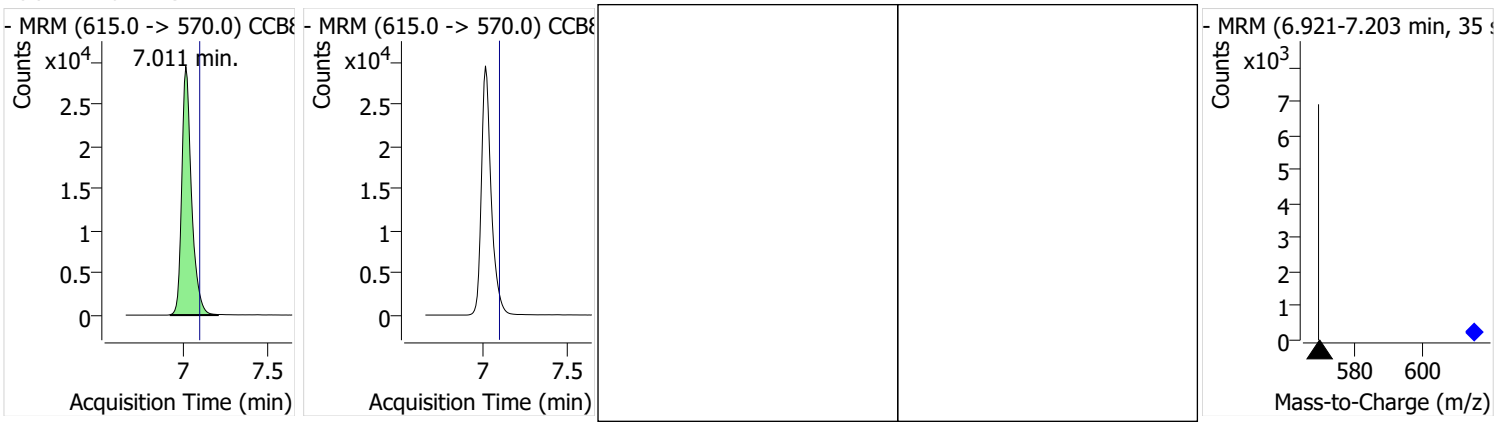
13C2-8:2FTS - ISTD



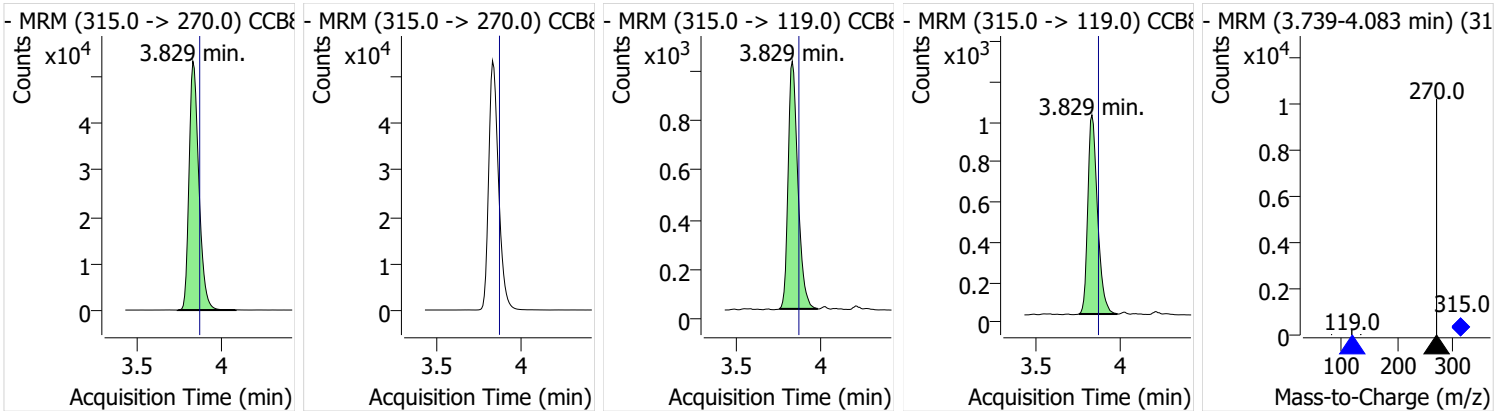
13C2-PFDA



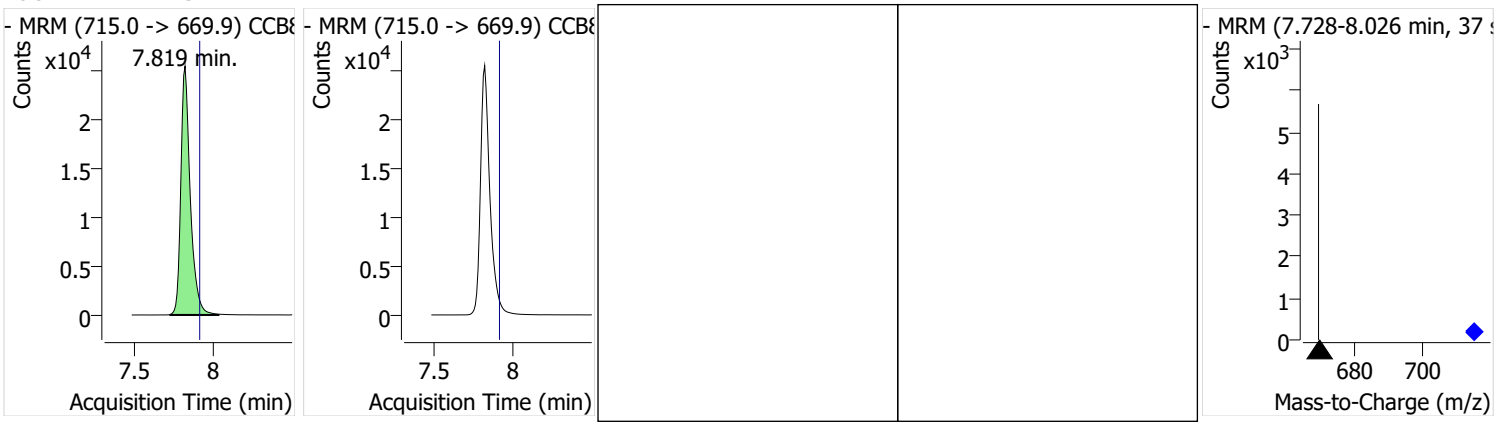
13C2-PFDoA - ISTD



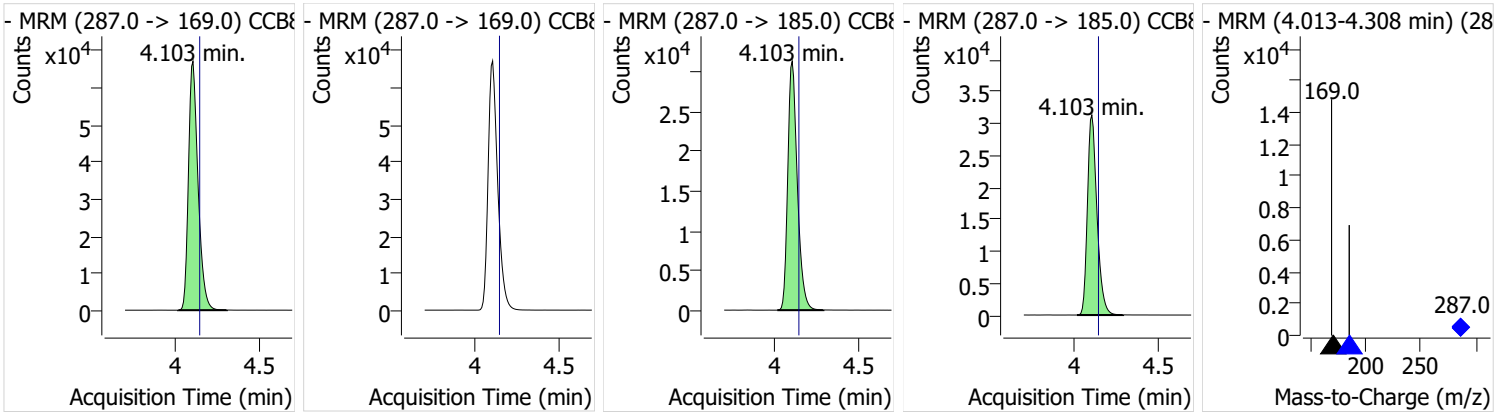
13C2-PFHxA



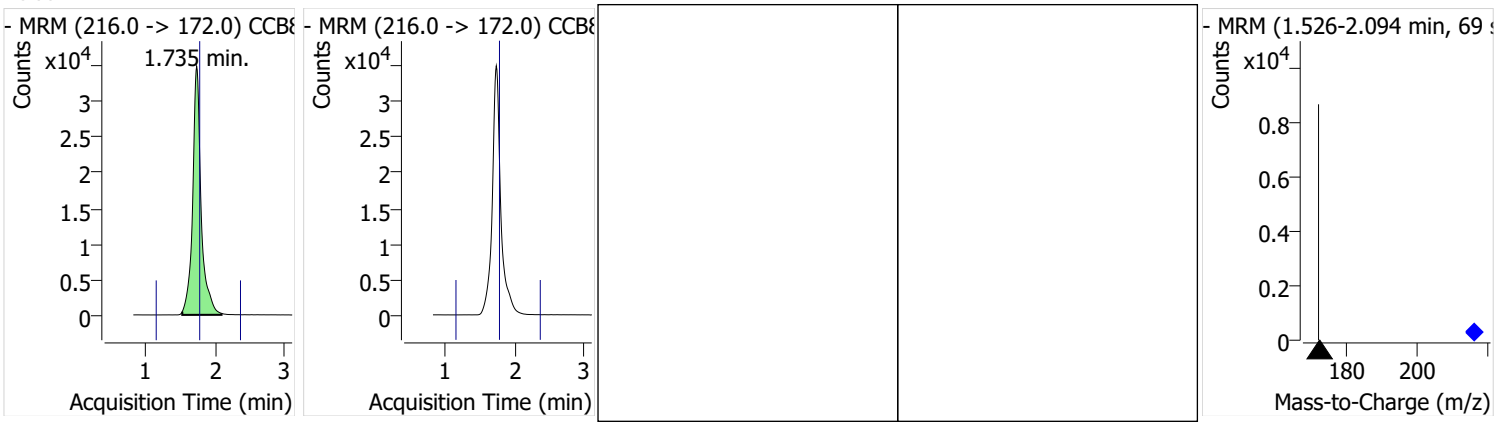
13C2-PFTeDA - ISTD



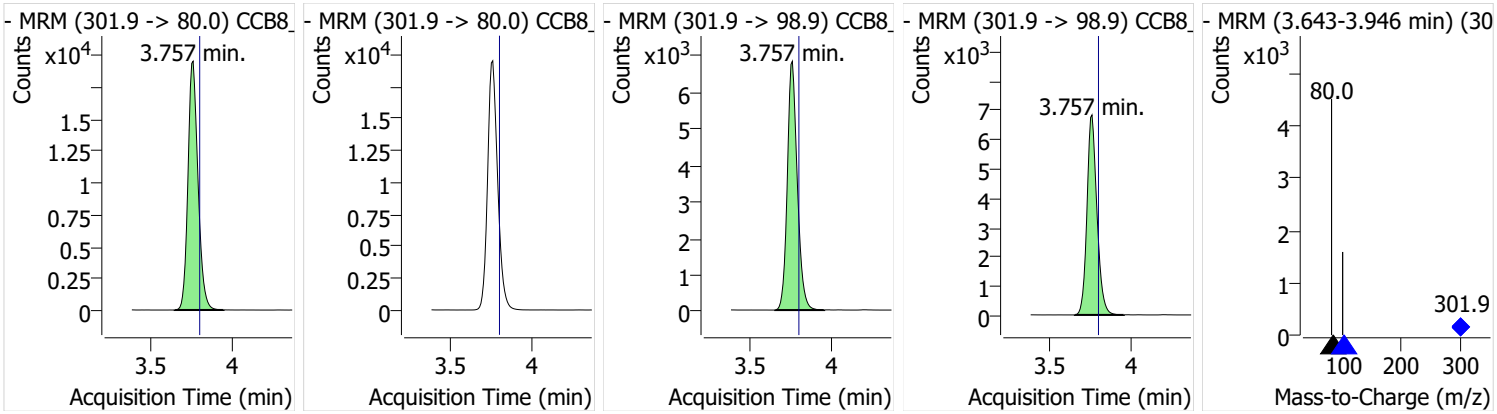
13C3-HFPODA - ISTD



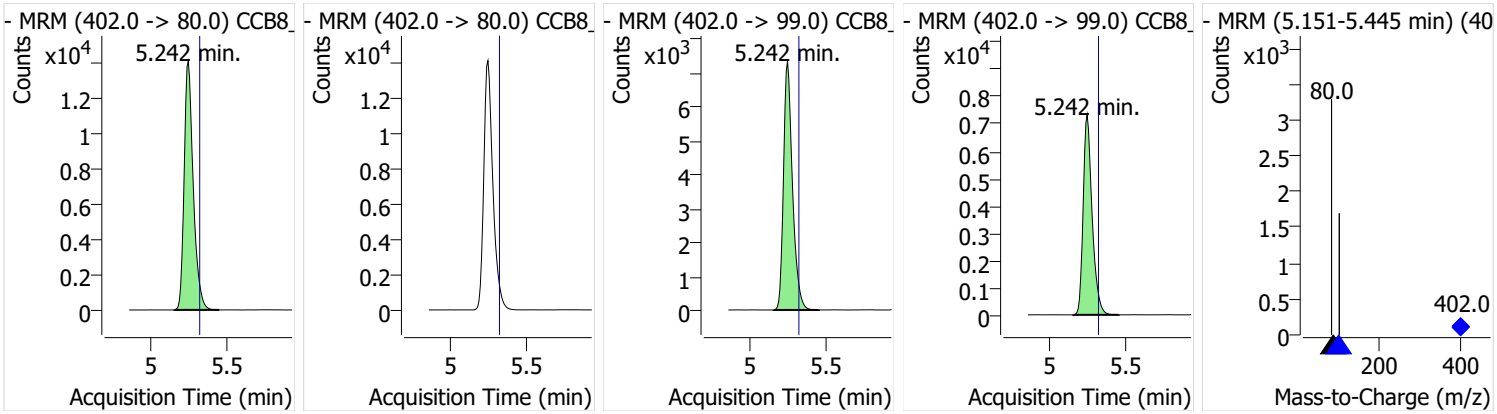
13C3-PFBA



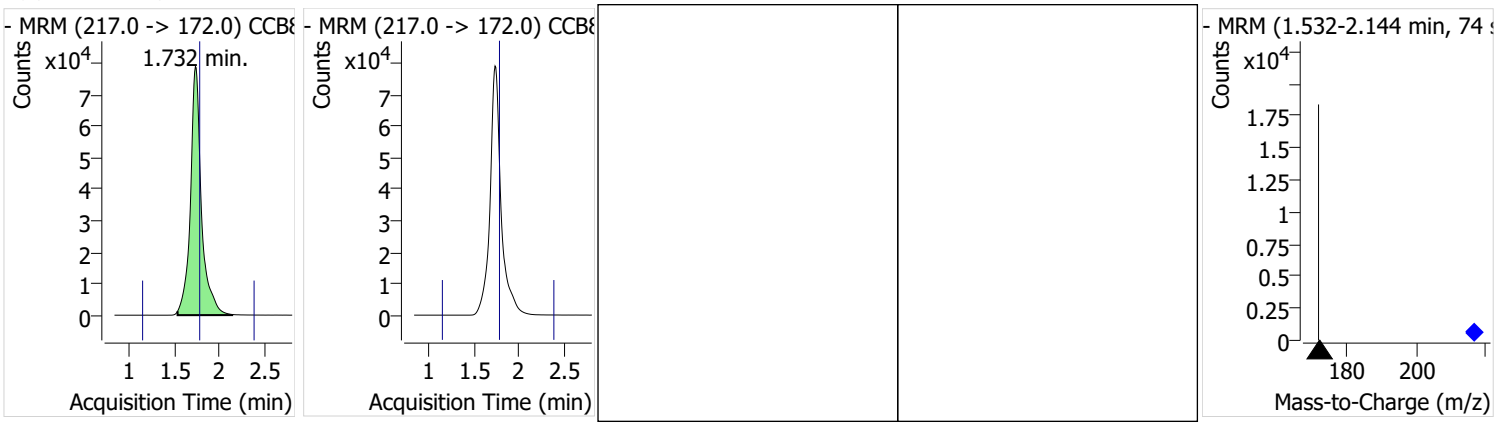
13C3-PFBS - ISTD



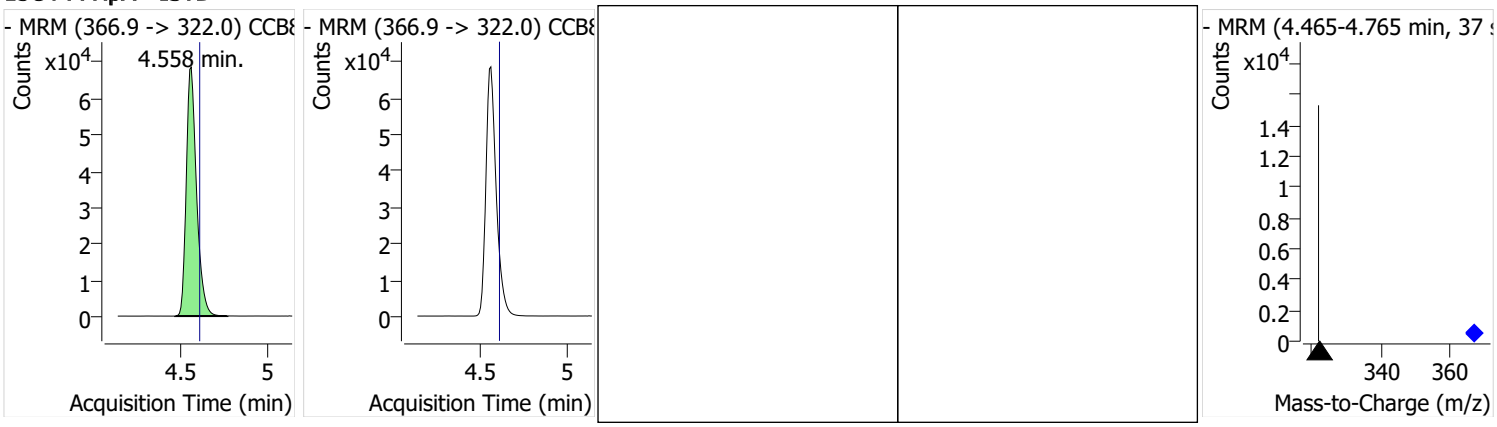
13C3-PFHxS - ISTD



13C4-PFBA - ISTD



13C4-PFHpA - ISTD



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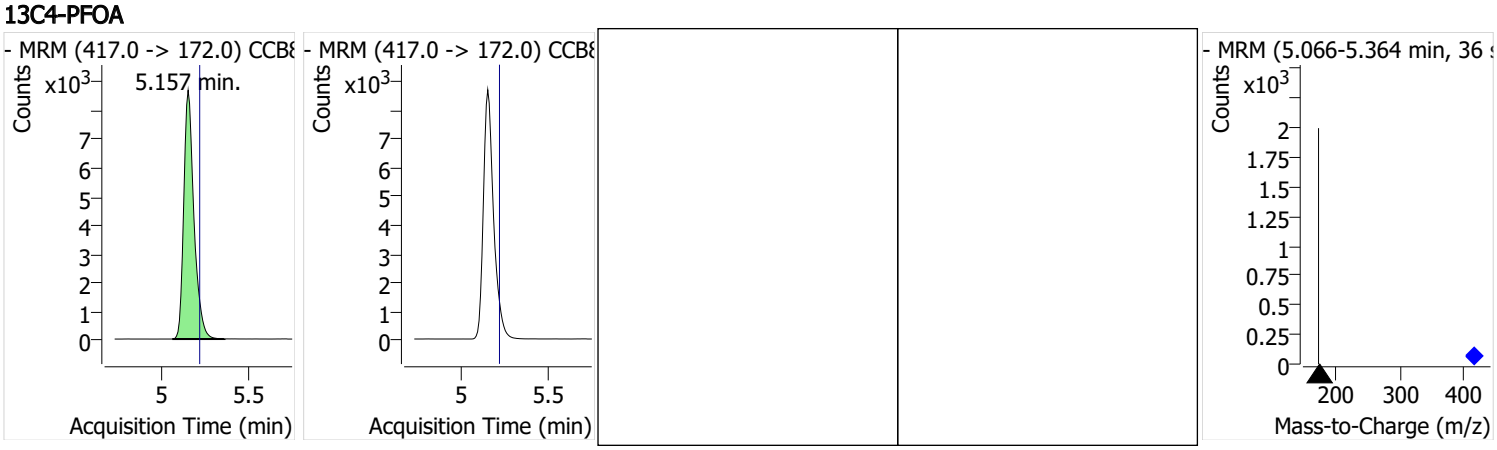
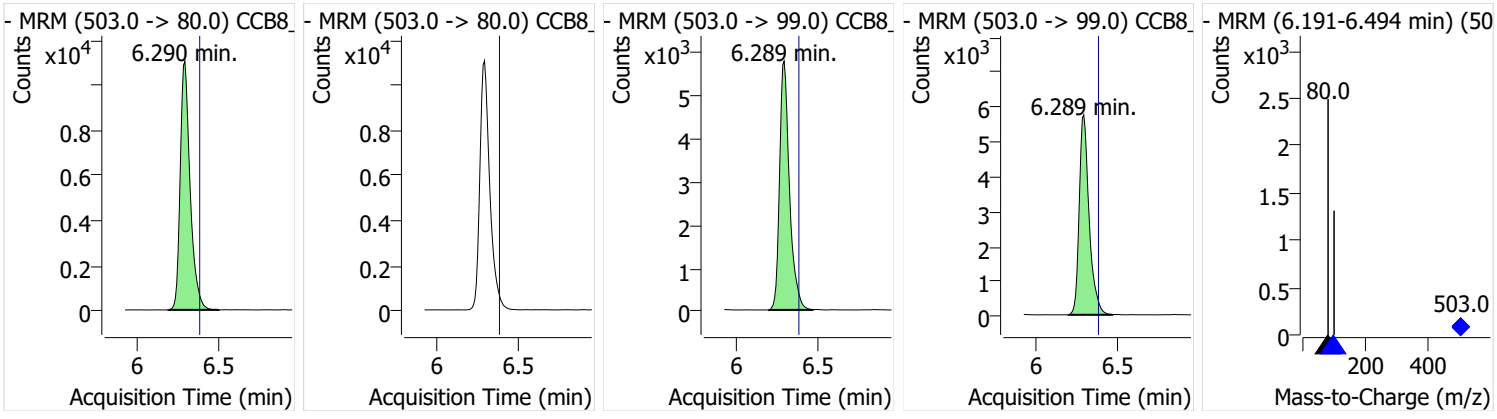
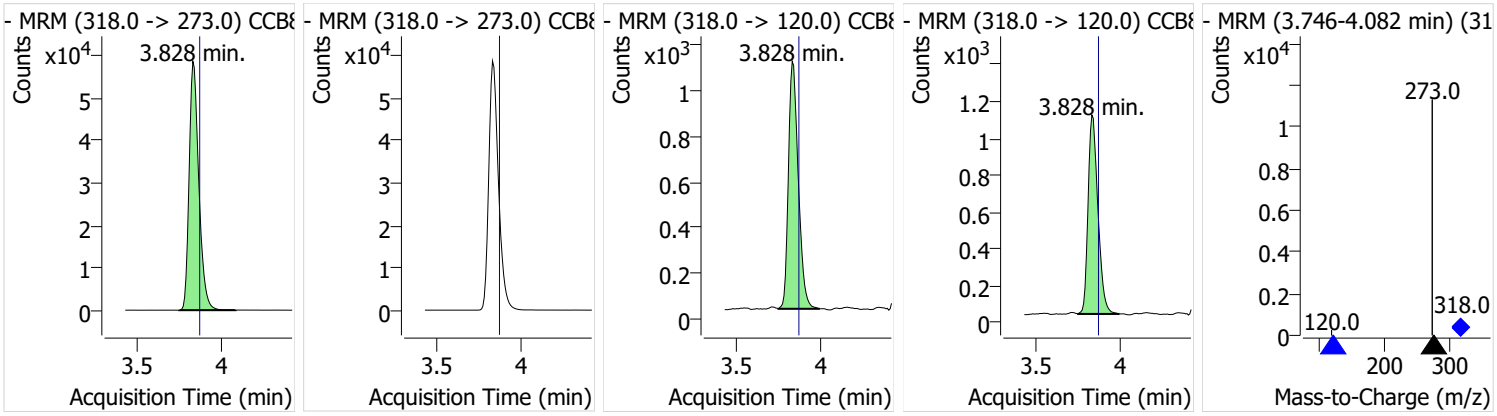


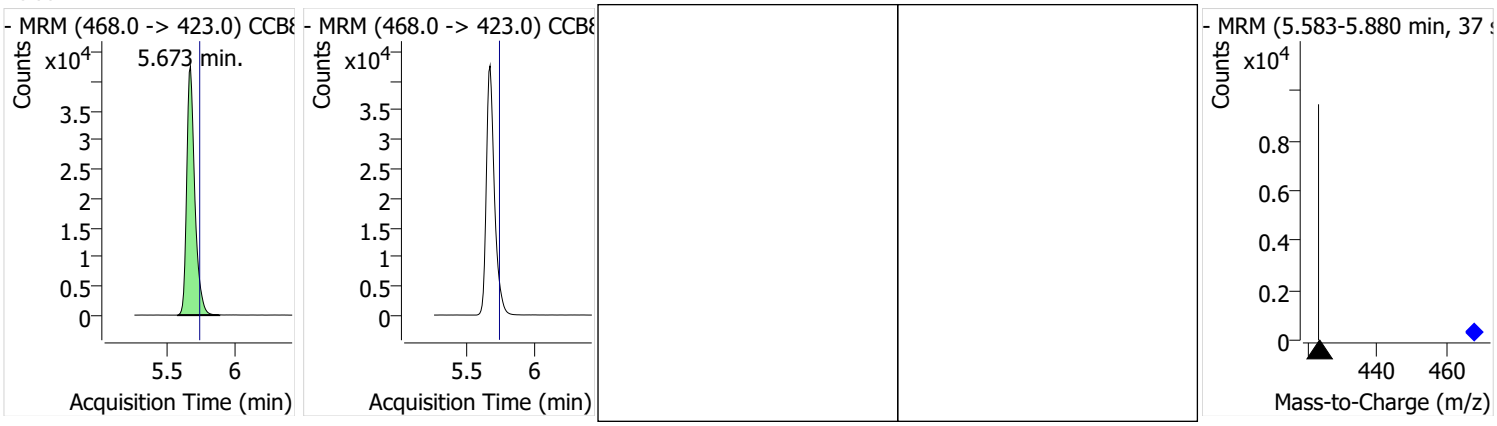
13C4-PFOS



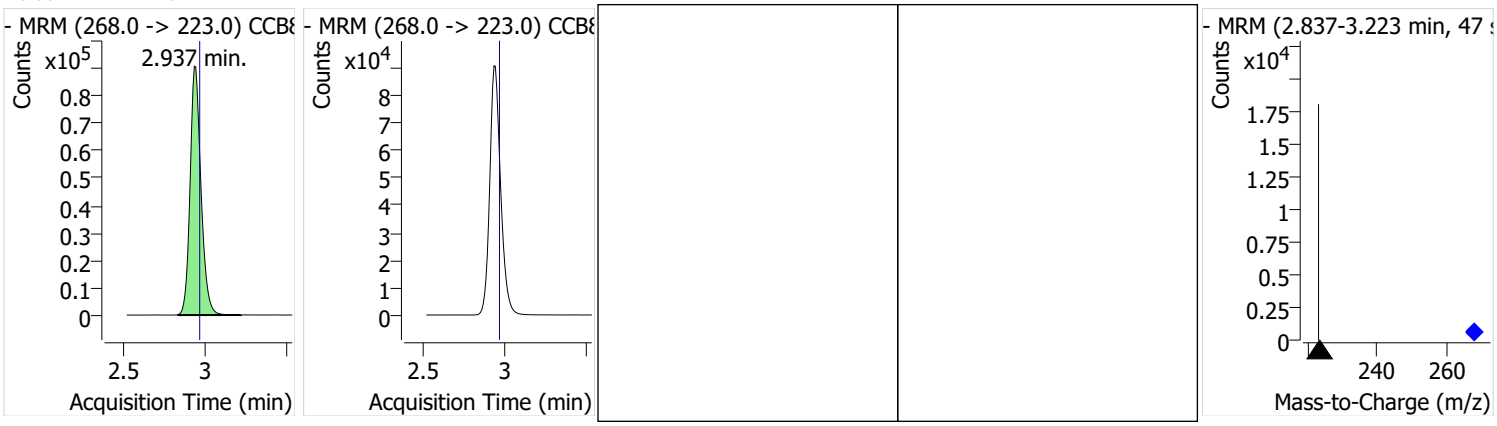
13C5-PFHxA - ISTD



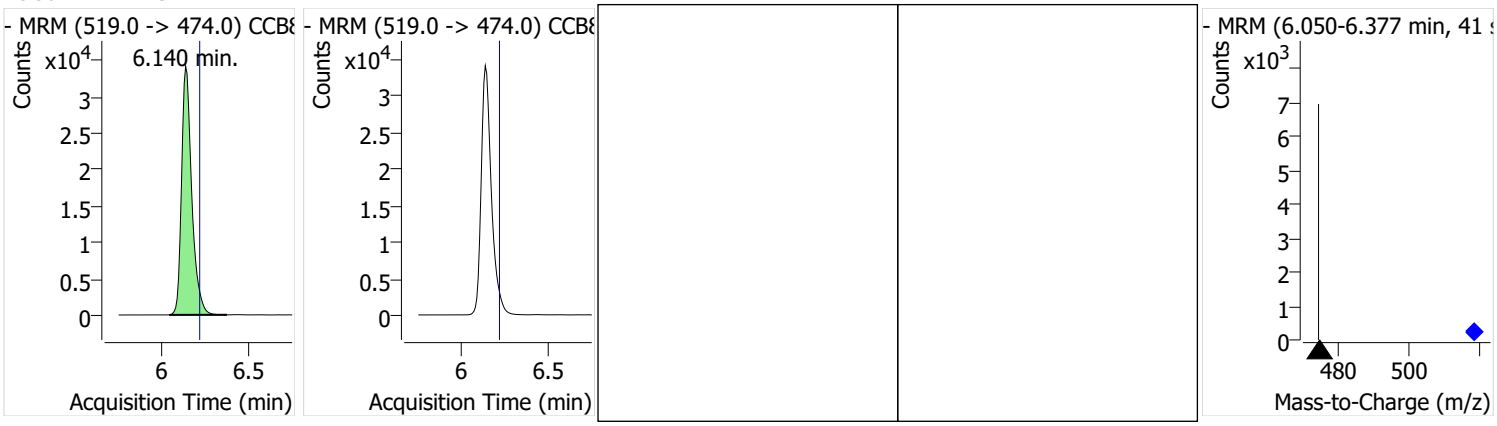
13C5-PFNA



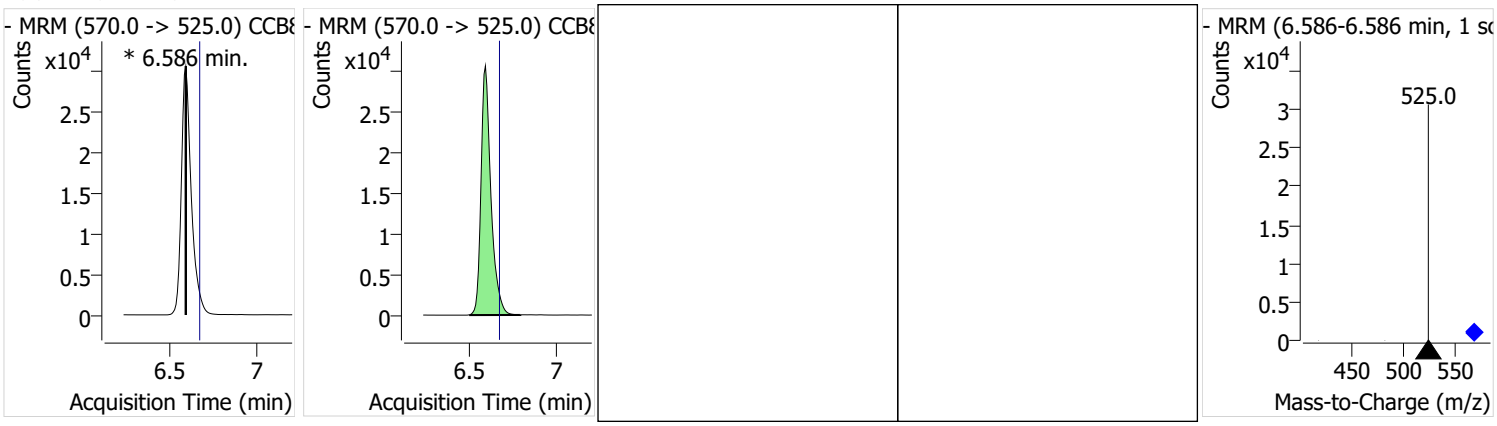
13C5-PFPeA - ISTD



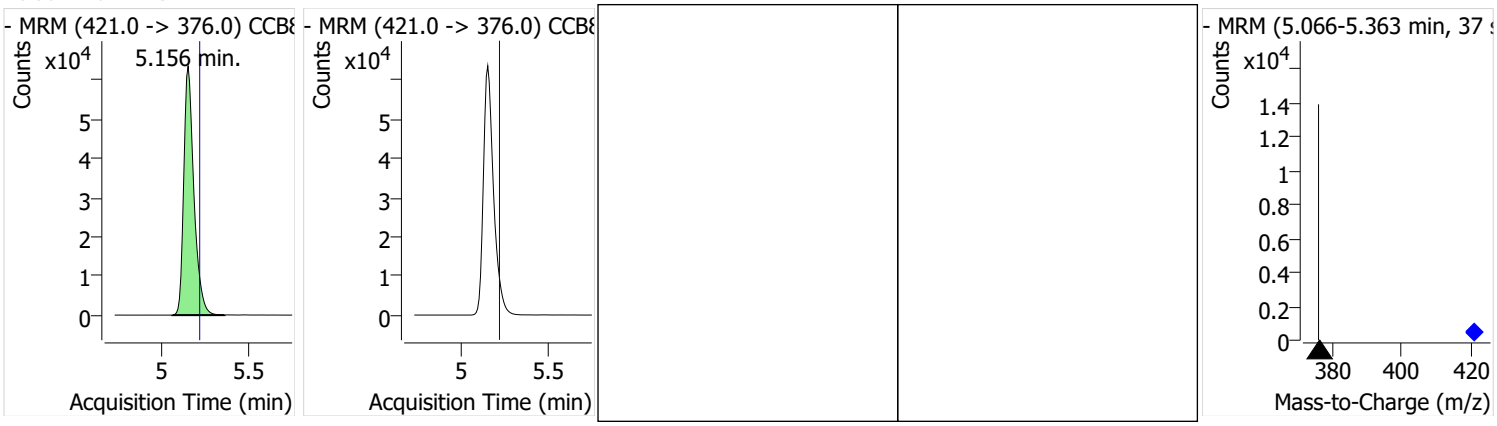
13C6-PFDA - ISTD



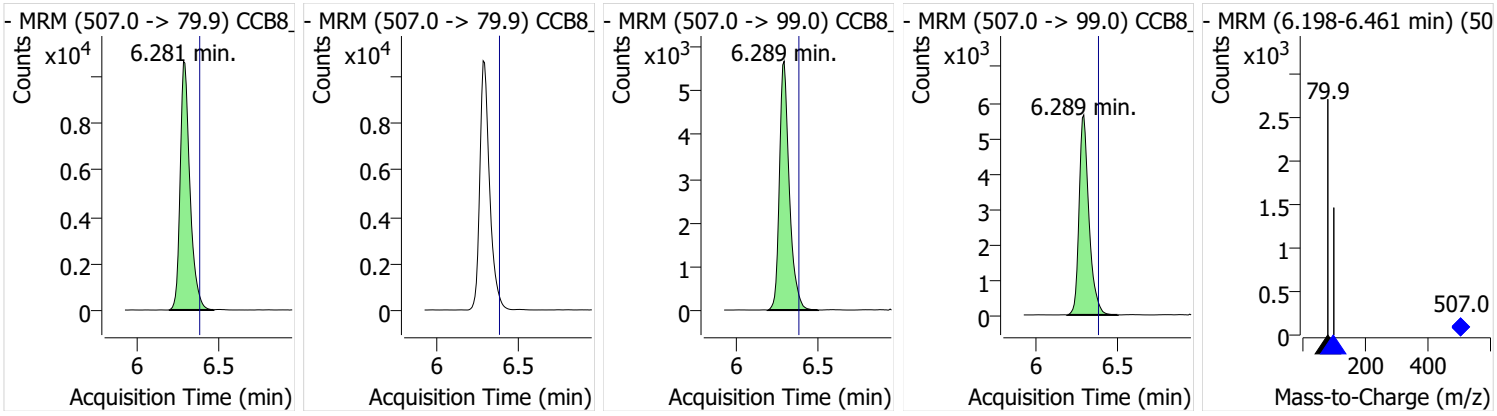
13C7-PFUnA - ISTD



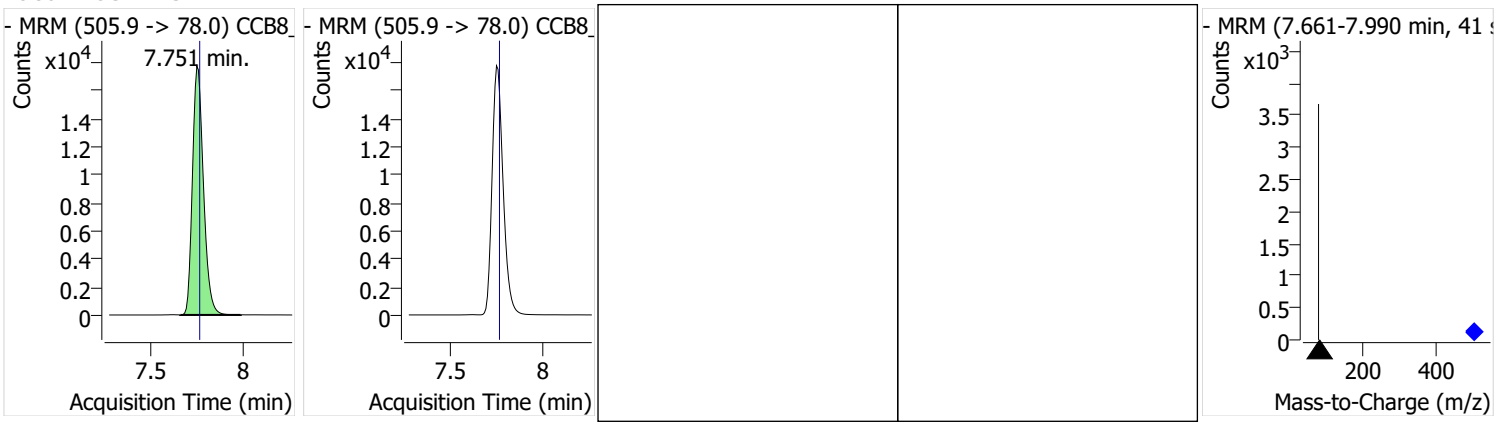
13C8-PFOA - ISTD



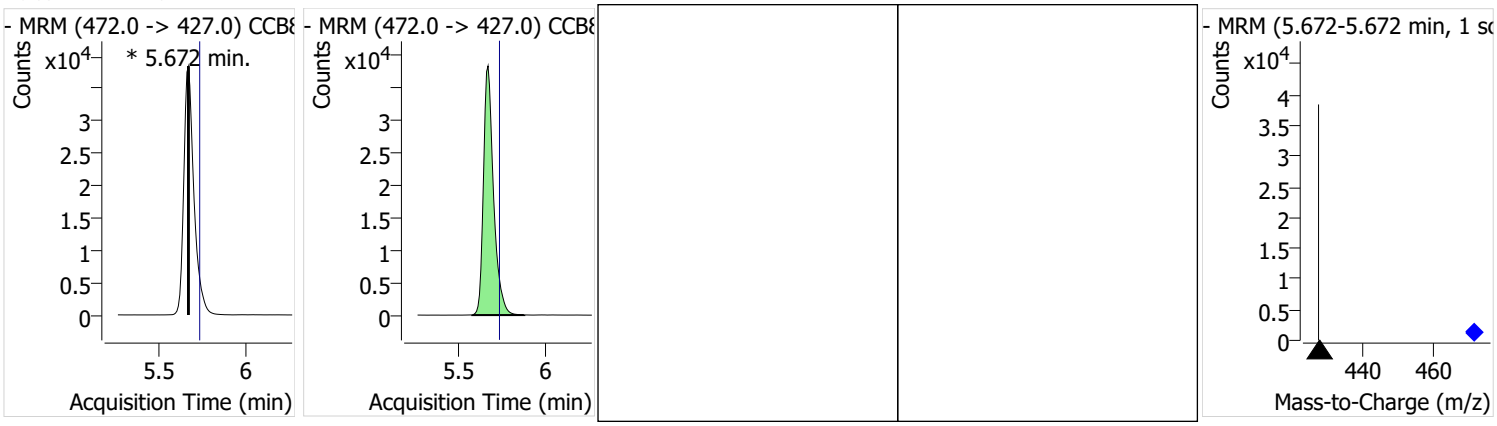
13C8-PFOS - ISTD



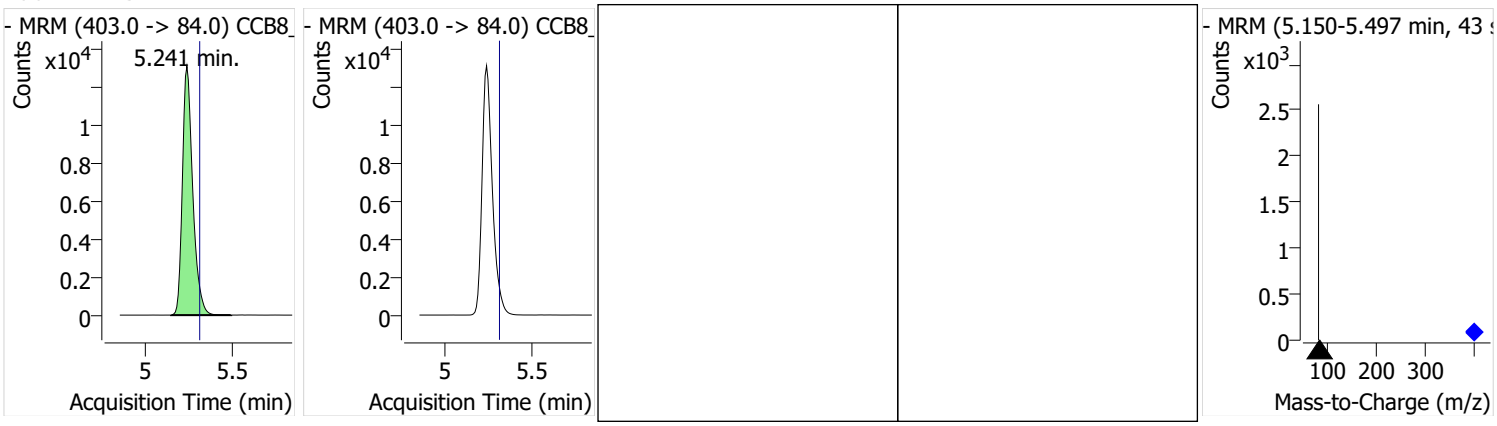
13C8-PFOSA - ISTD



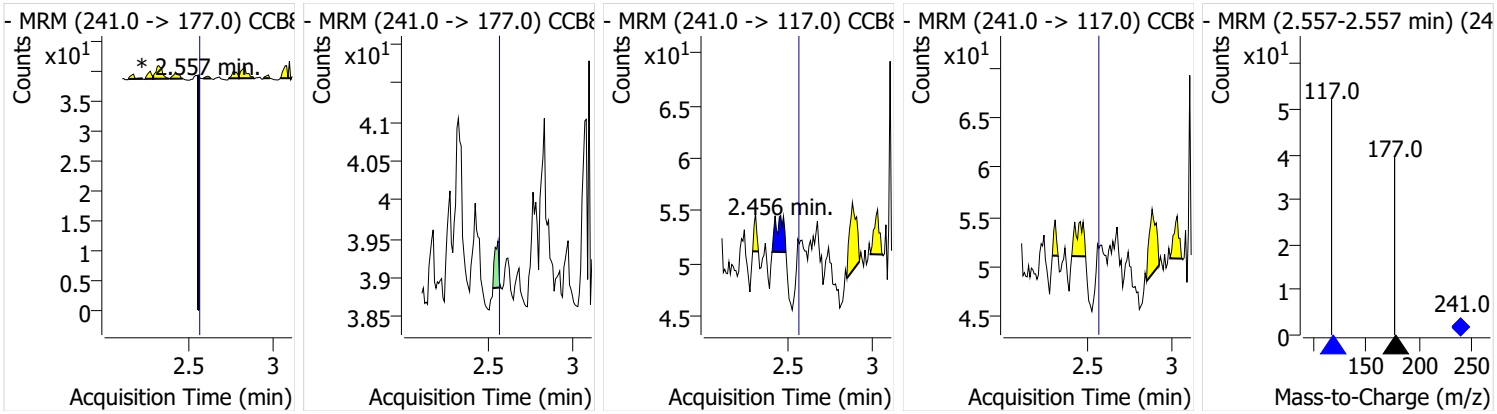
13C9-PFNA - ISTD



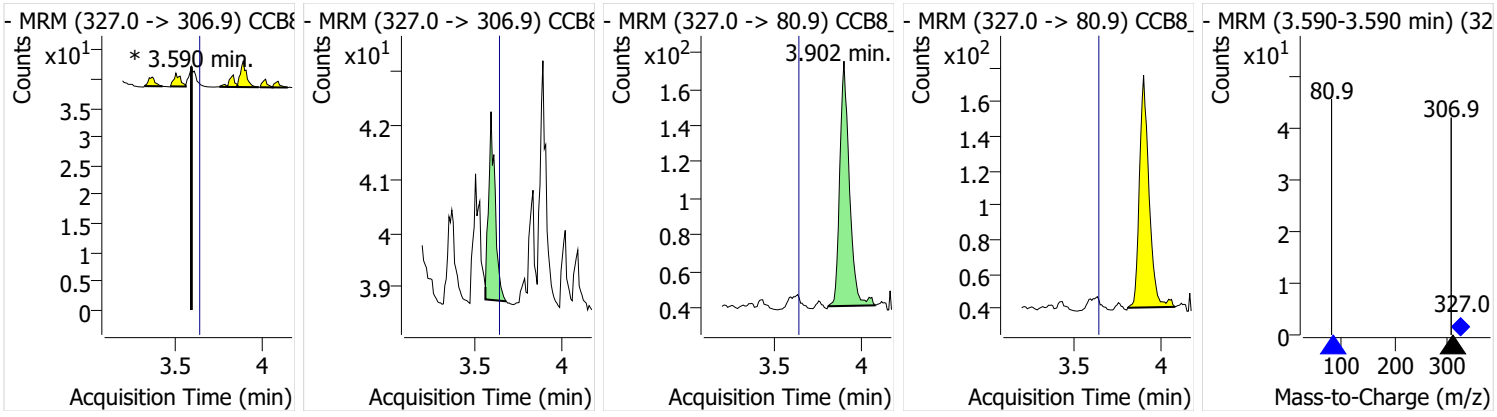
18O2-PFHxS



3:3FTCA



4:2FTS



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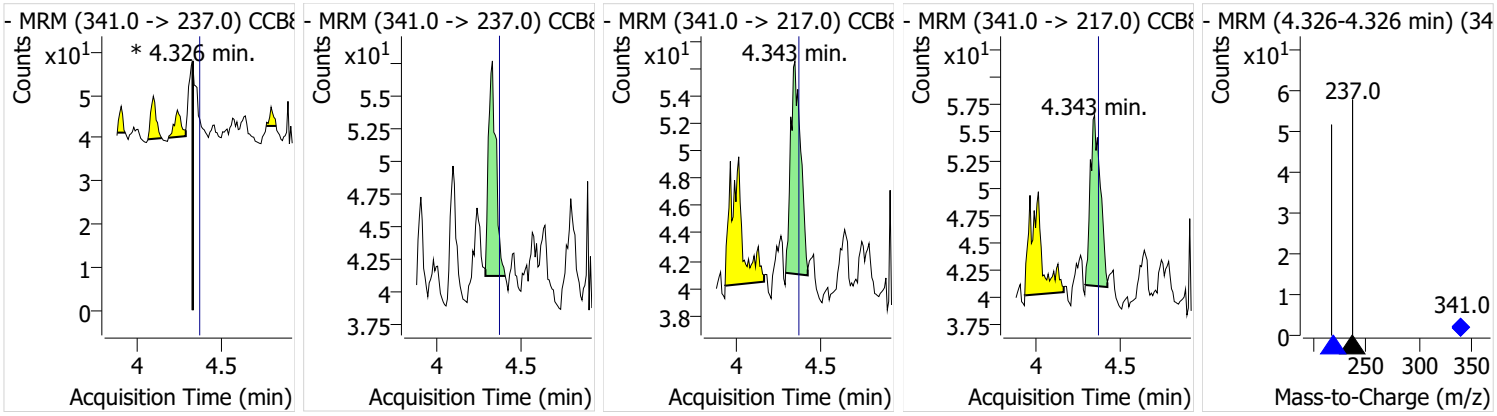
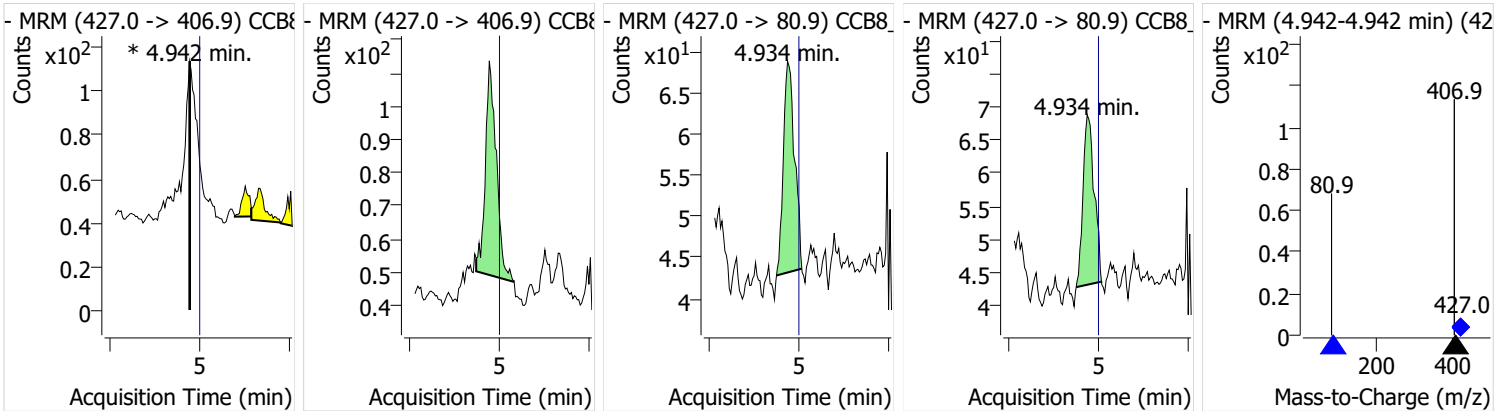
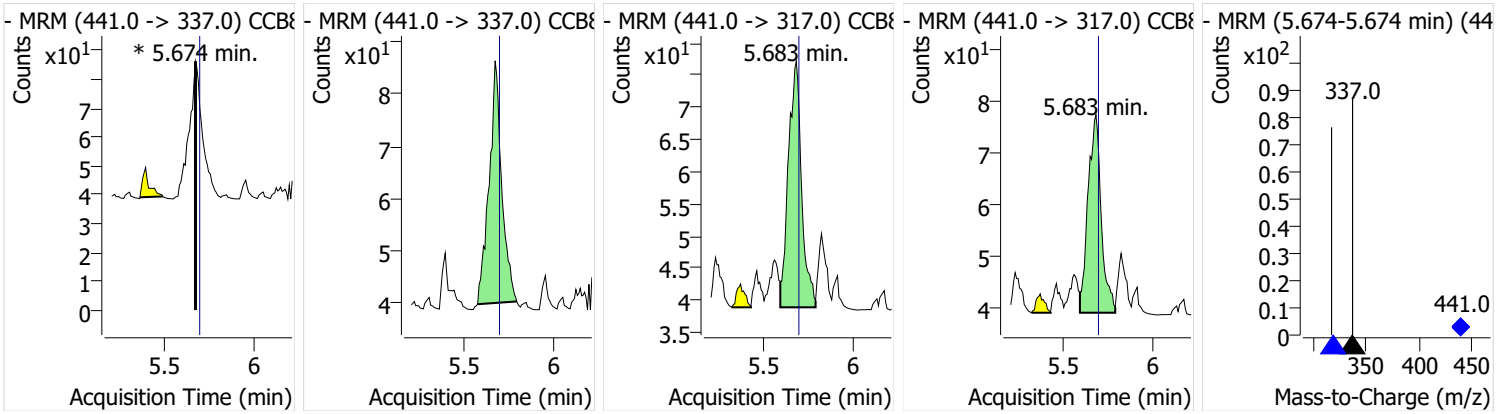


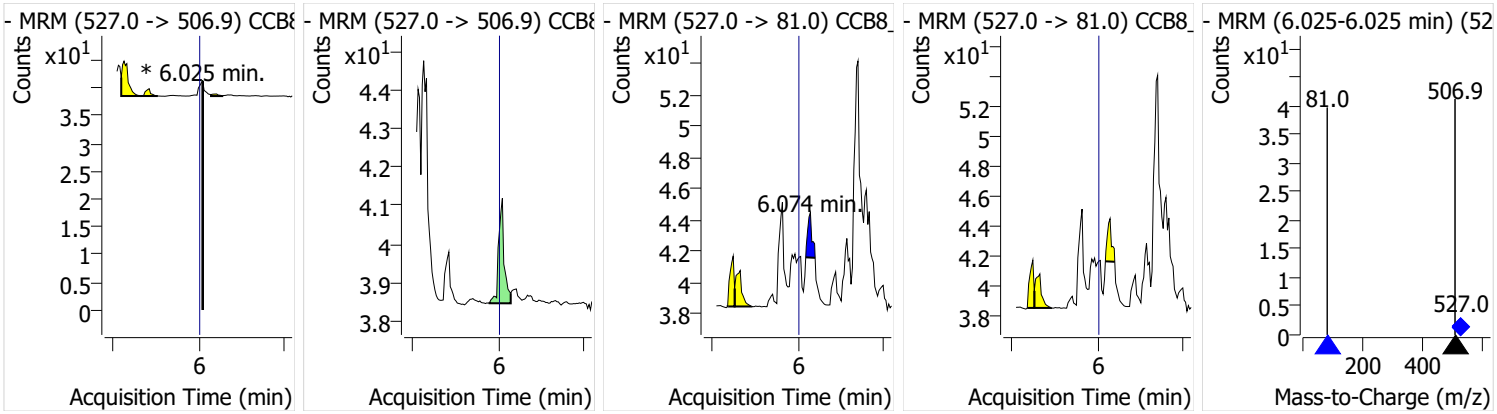
6:2FTS



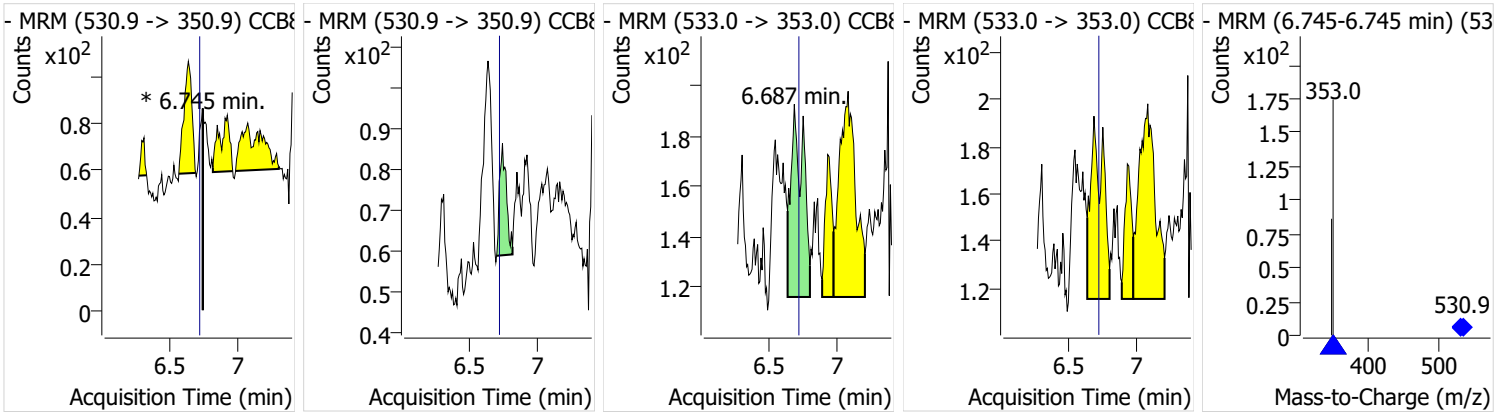
7:3FTCA



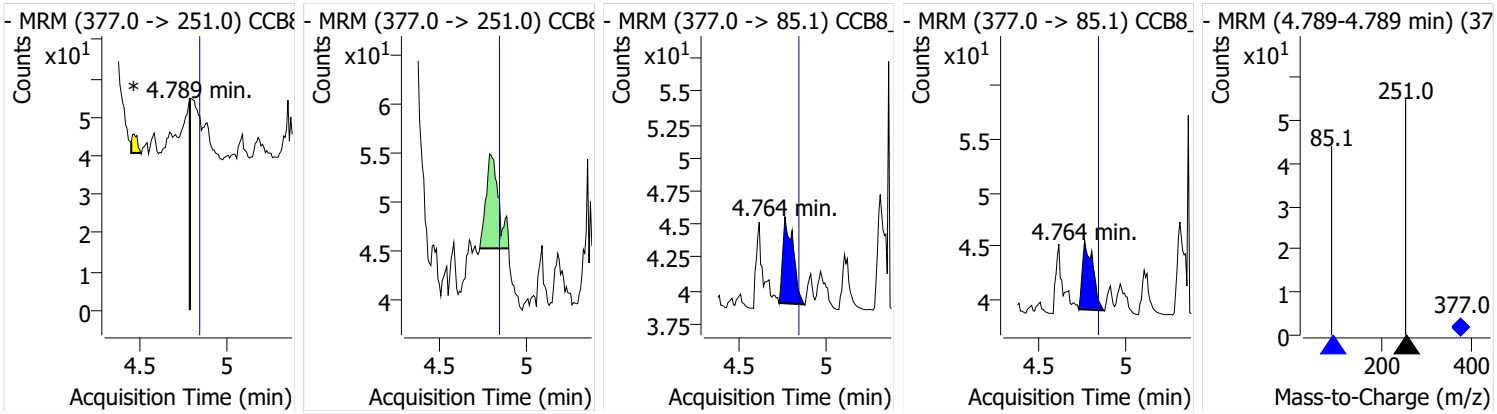
8:2FTS



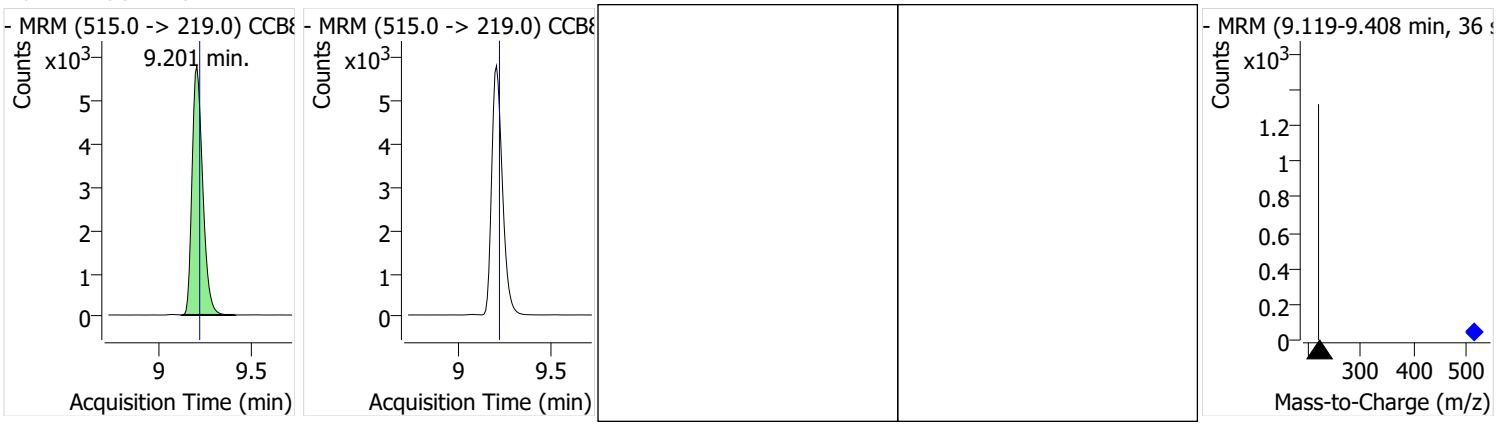
9Cl-PF3ONS



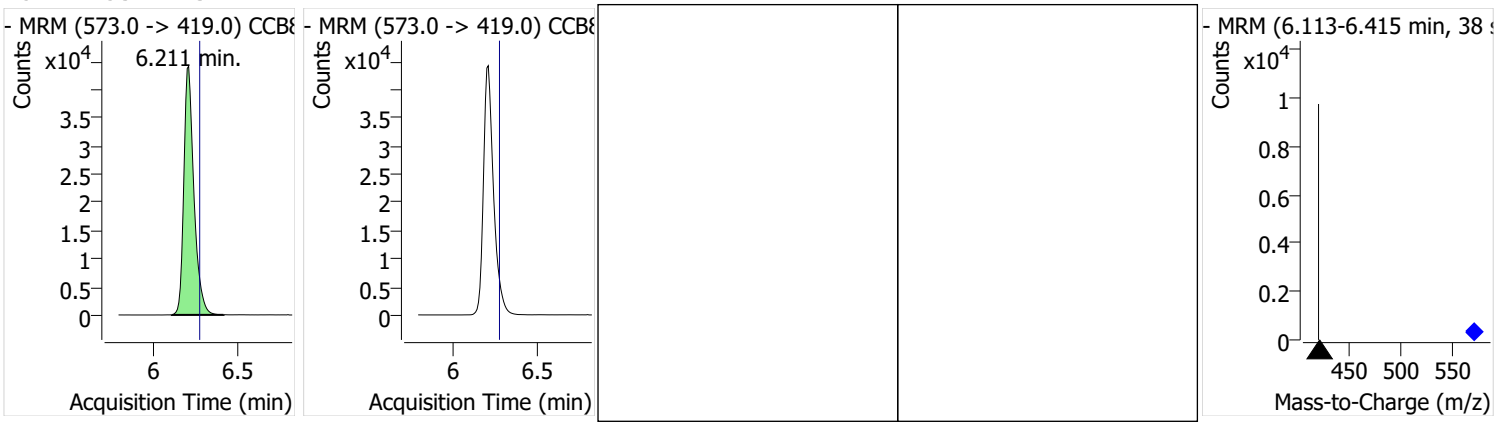
ADONA



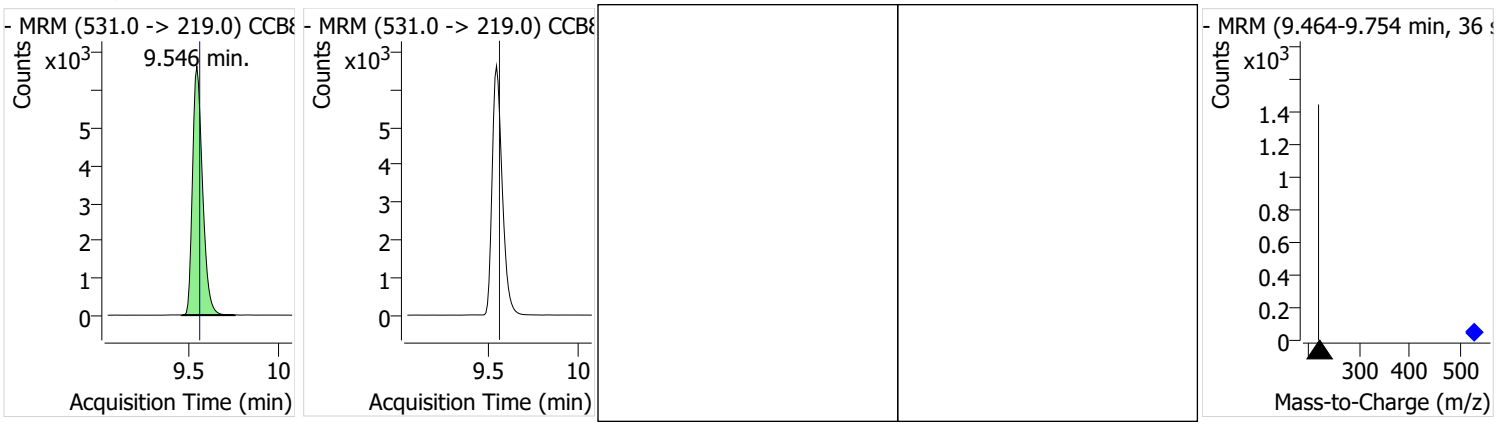
D3-NMeFOSA - ISTD



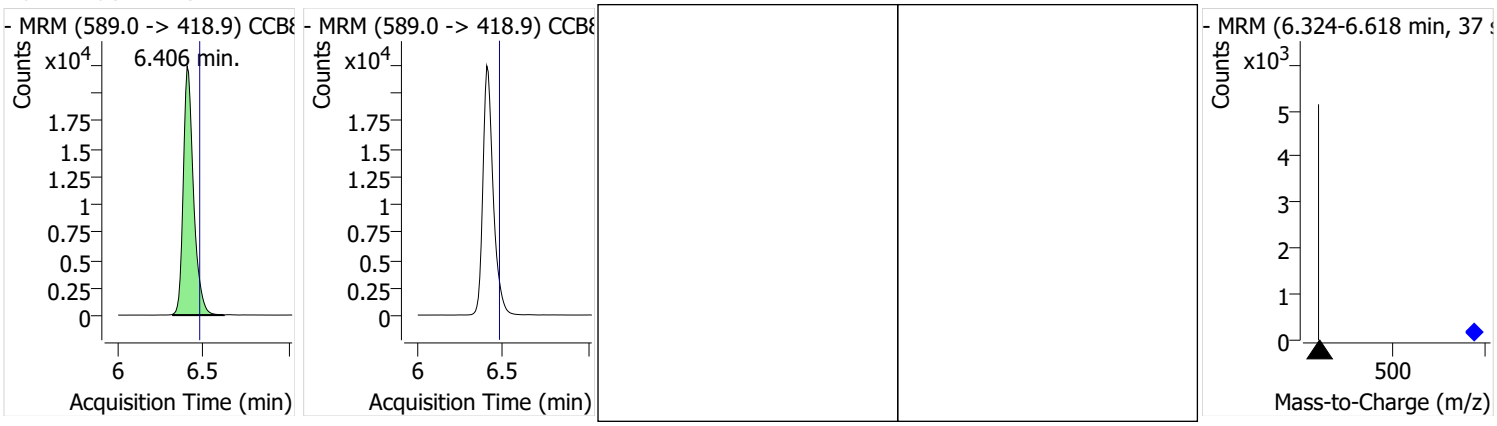
D3-NMeFOSAA - ISTD



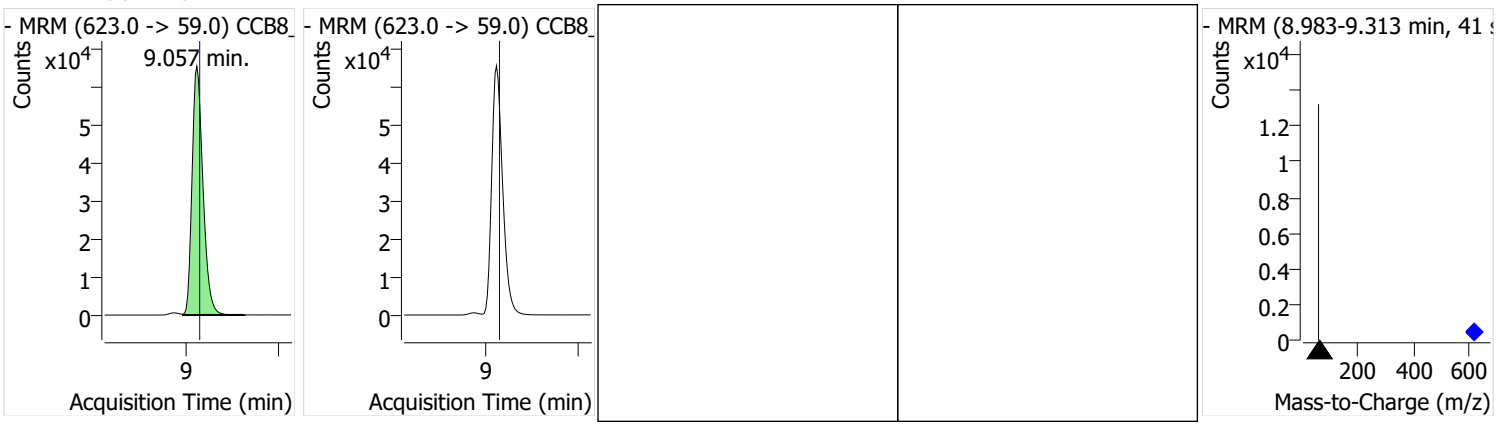
D5-NEtFOSA - ISTD



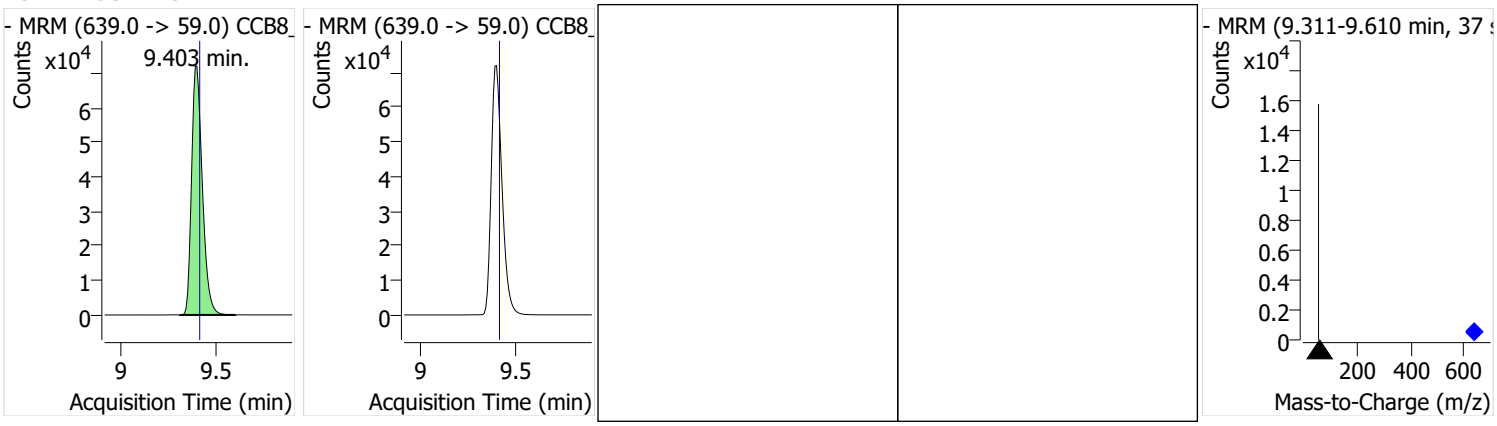
D5-NEtFOSAA - ISTD



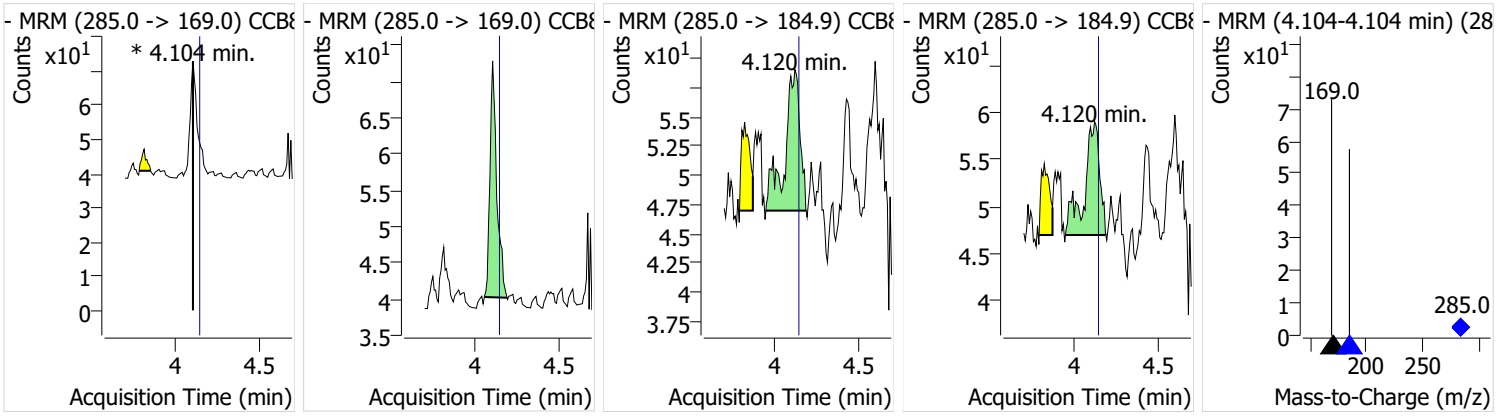
D7-NMeFOSE - ISTD



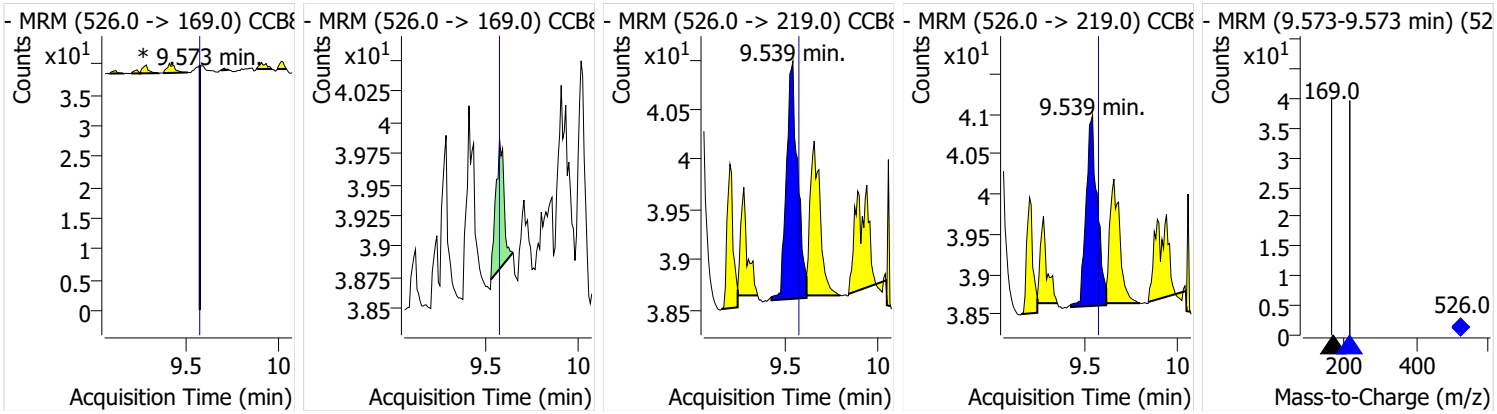
D9-NEtFOSE - ISTD



HFPO-DA



NEtFOSA



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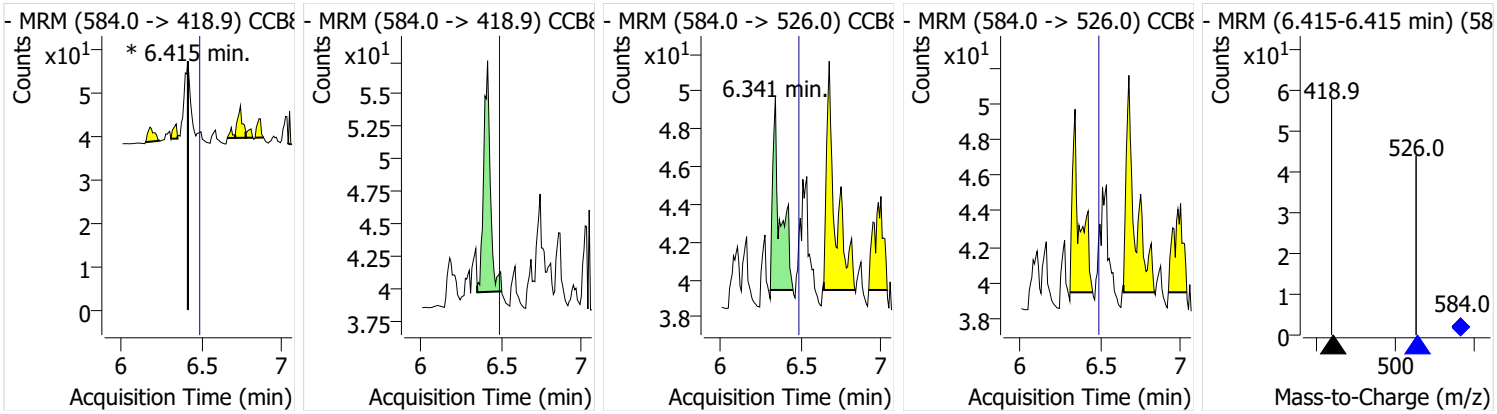

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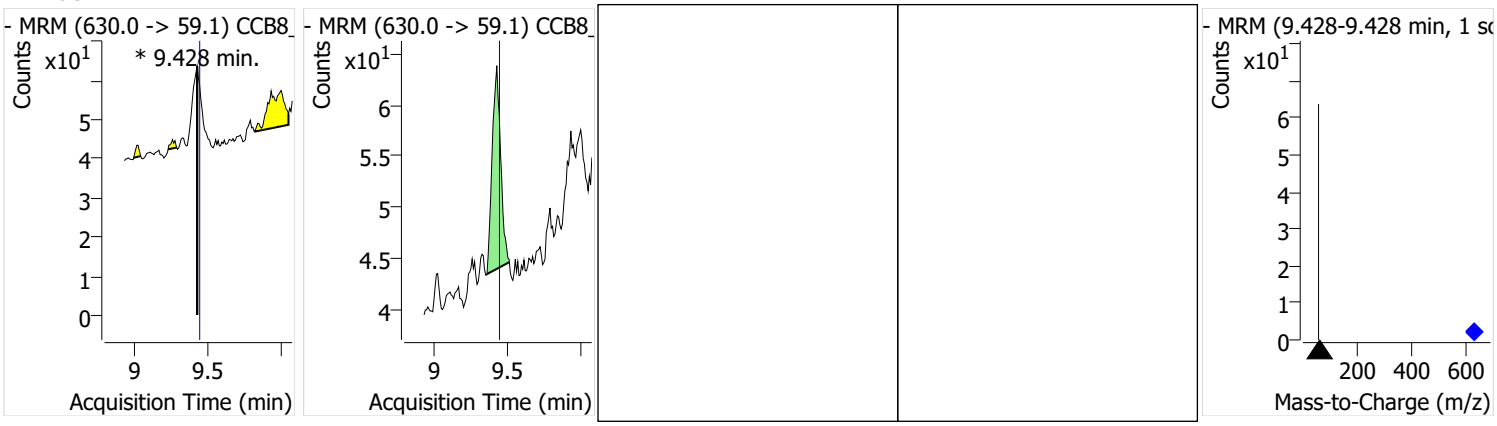

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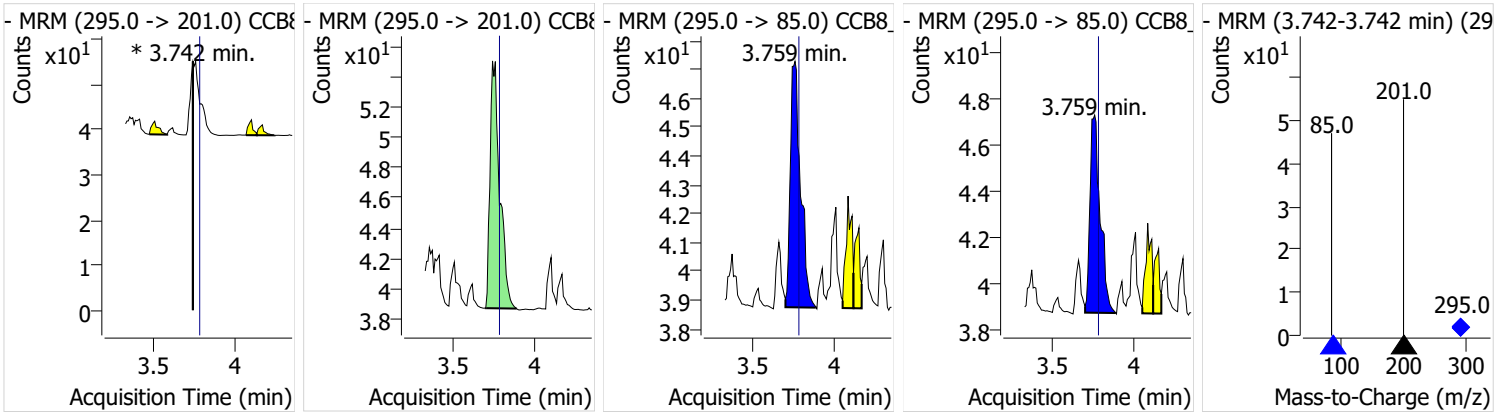
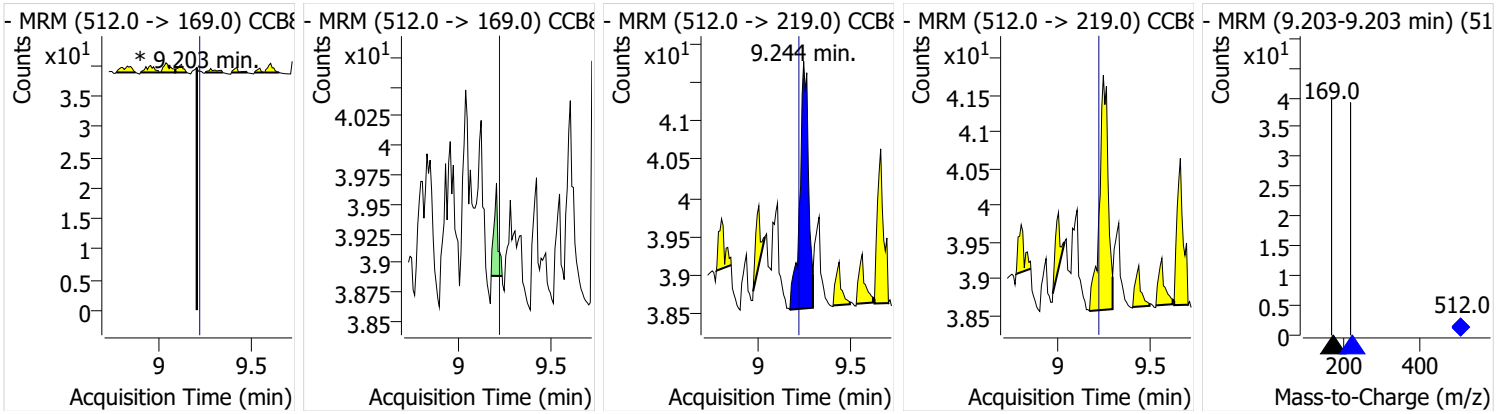


NMeFOSA



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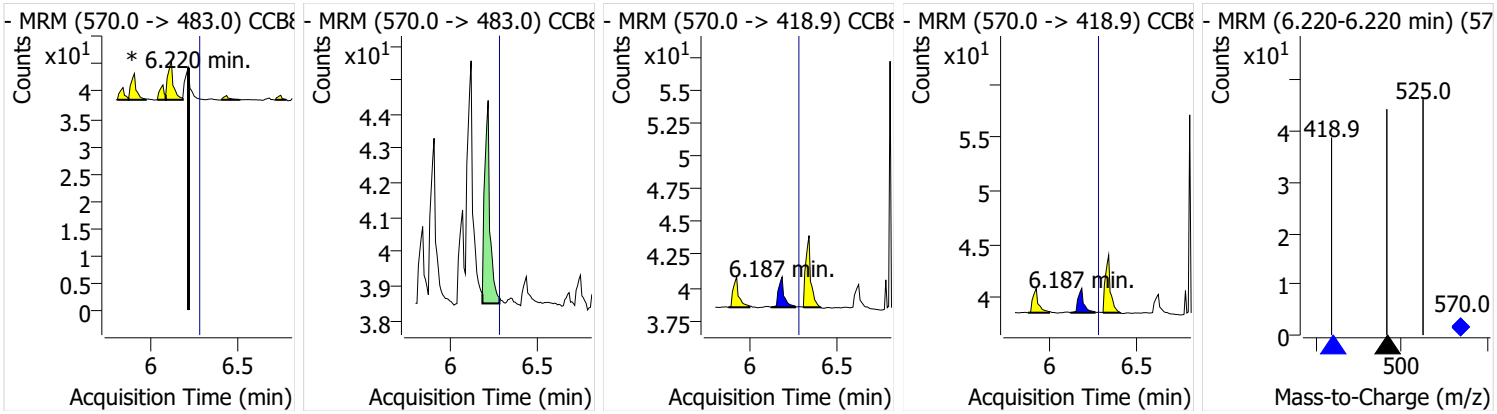
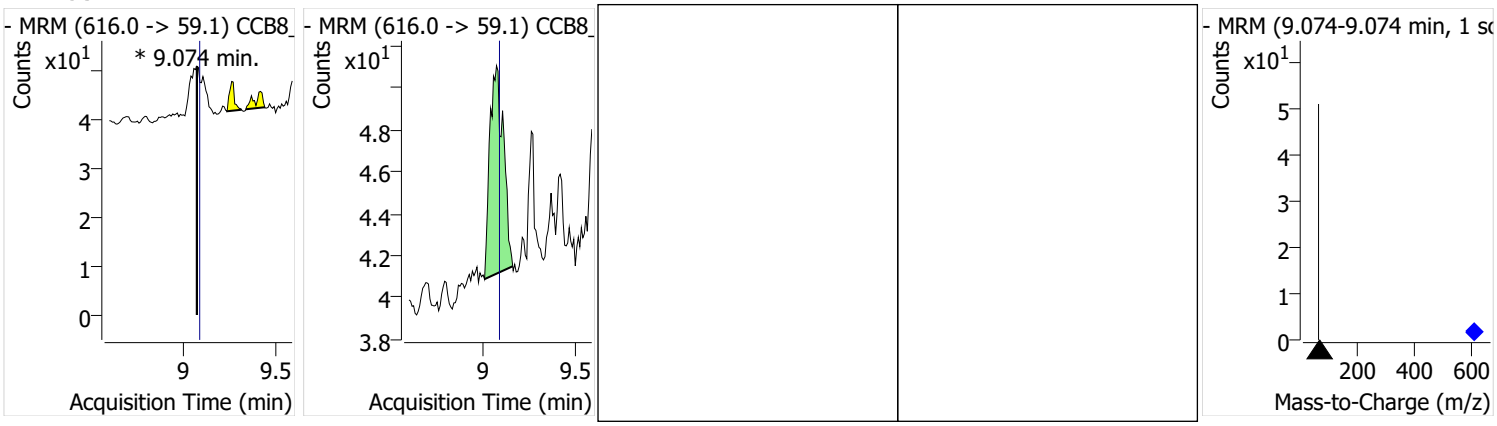
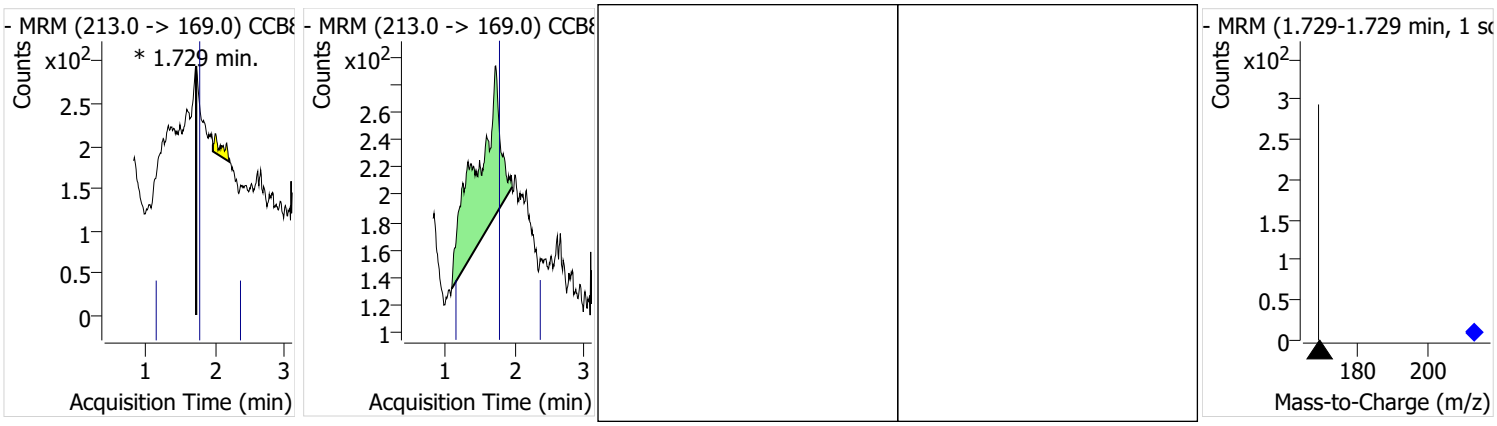


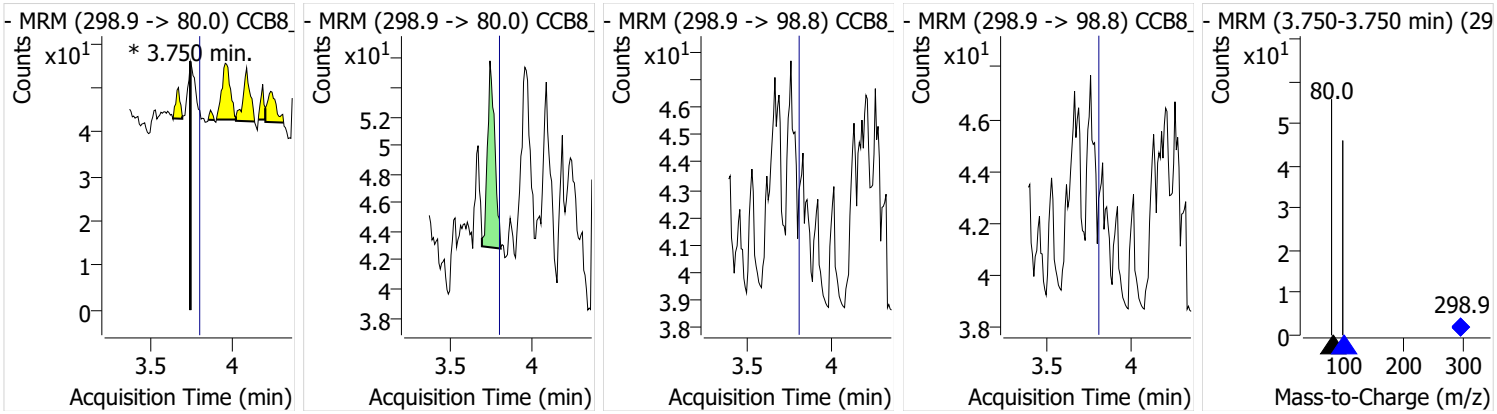
NMeFOSE



PFBA



PFBS



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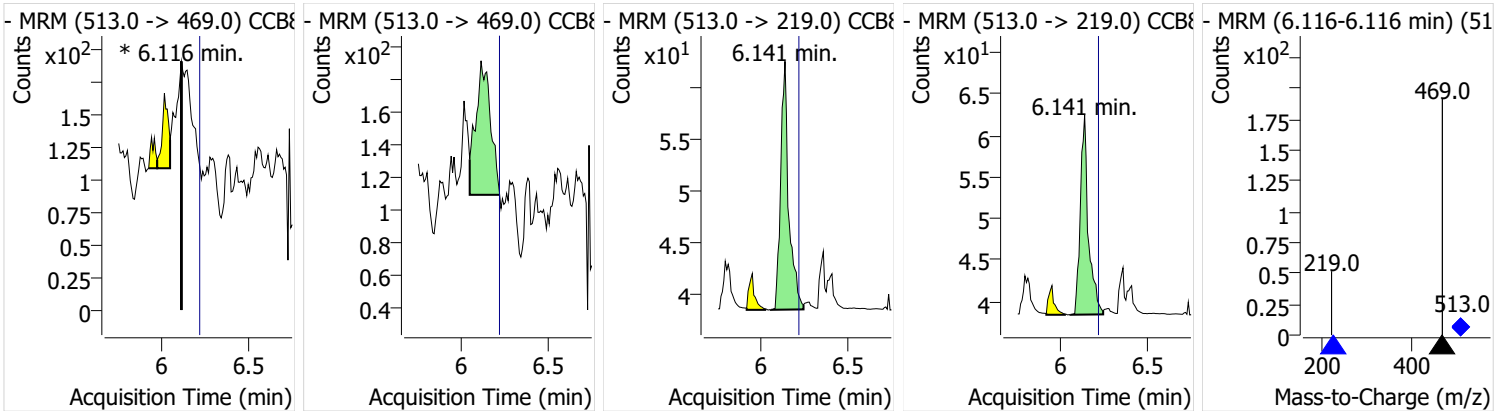
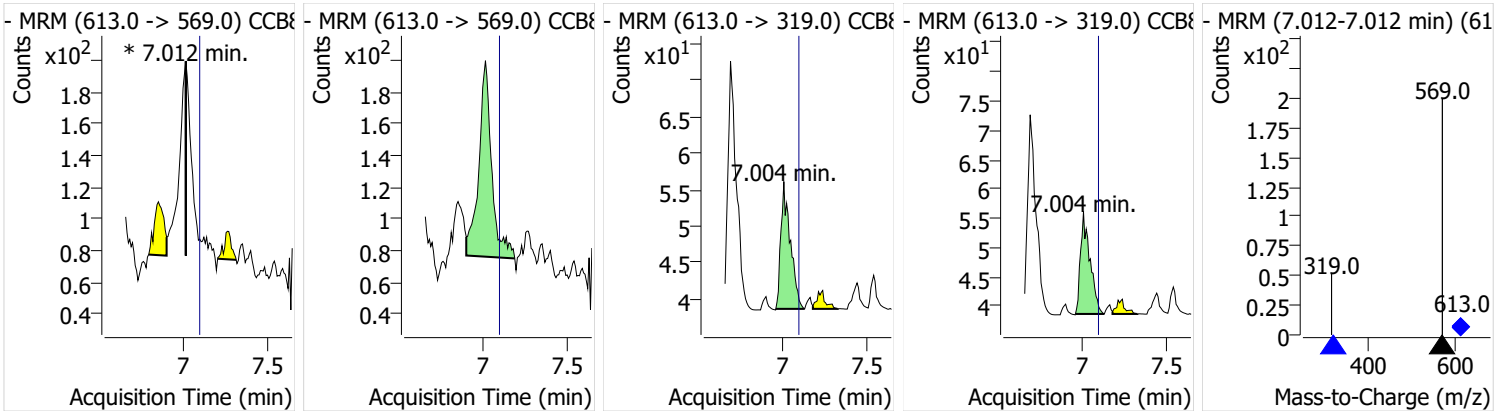


PFDoA



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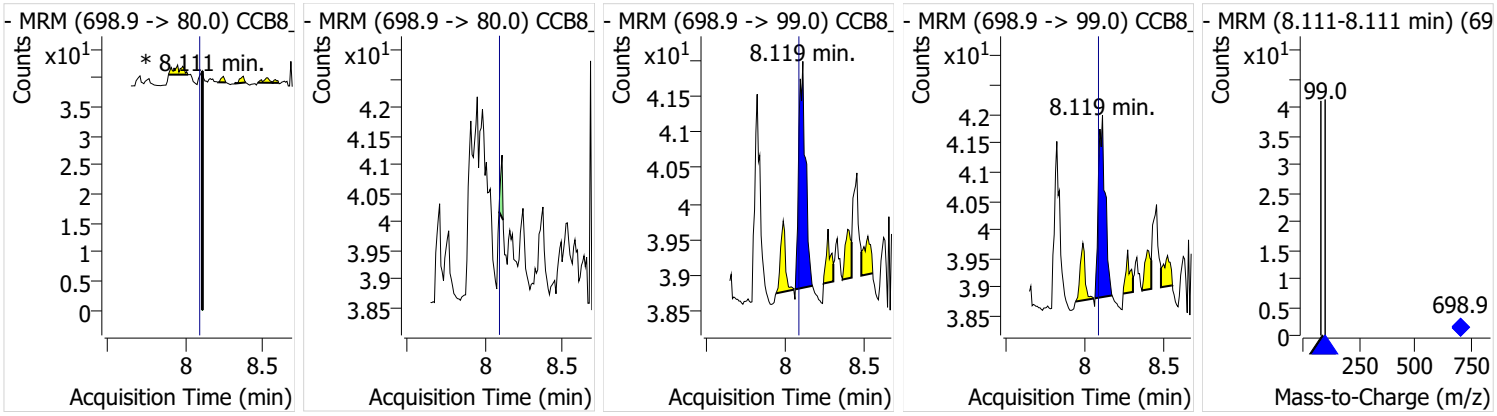

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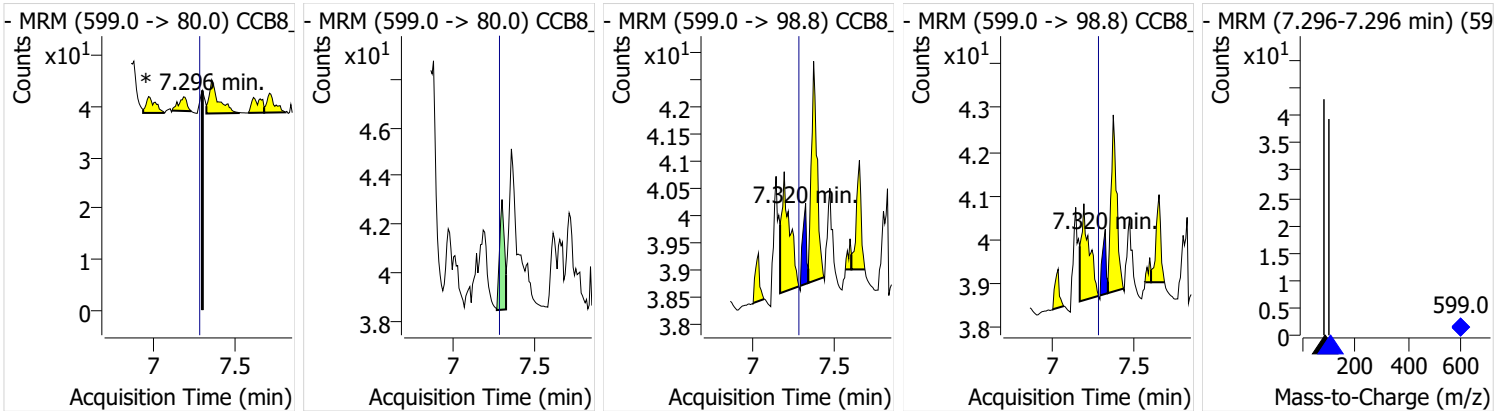

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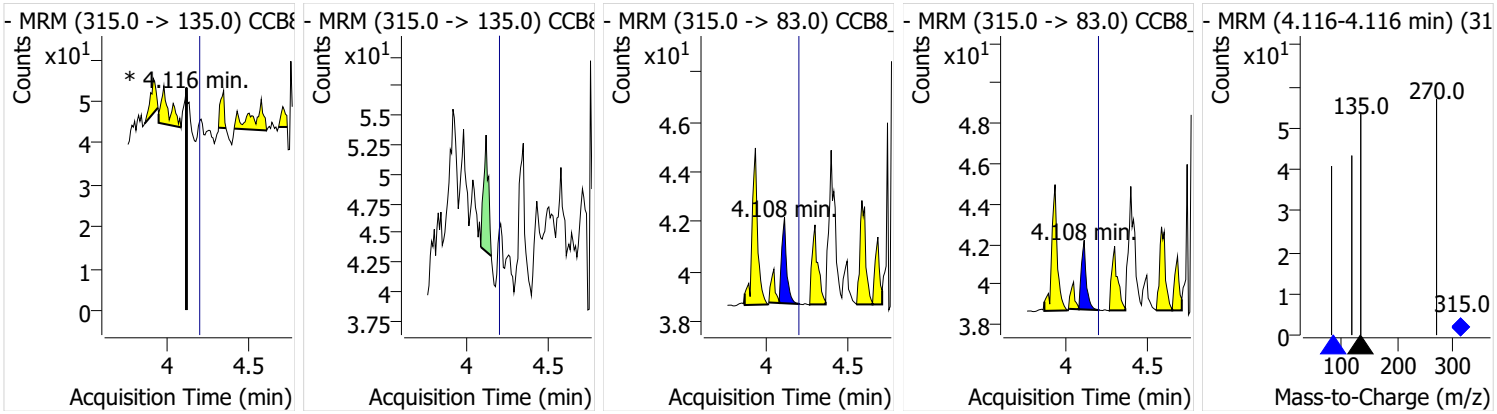

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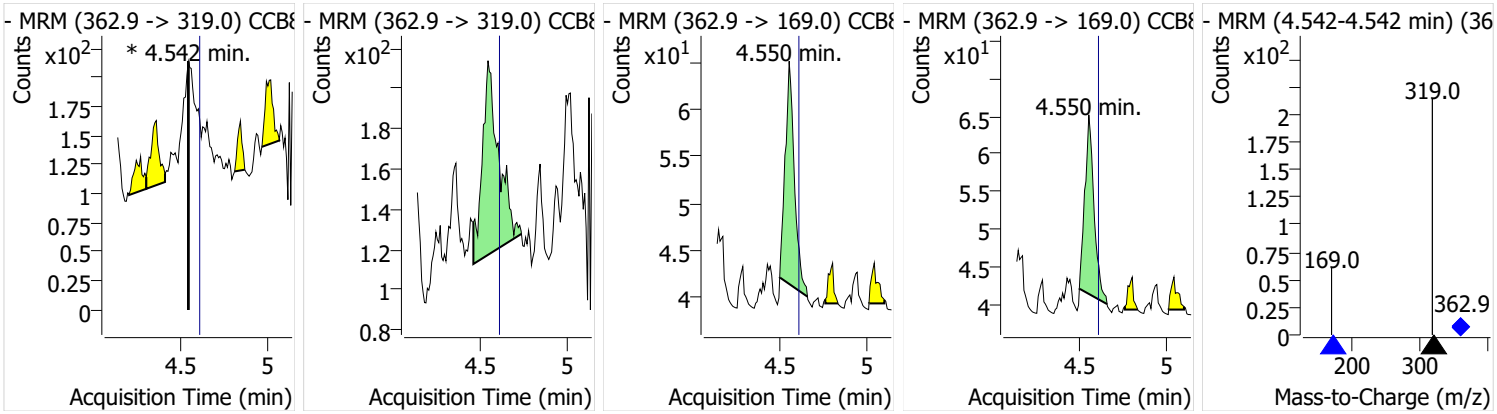

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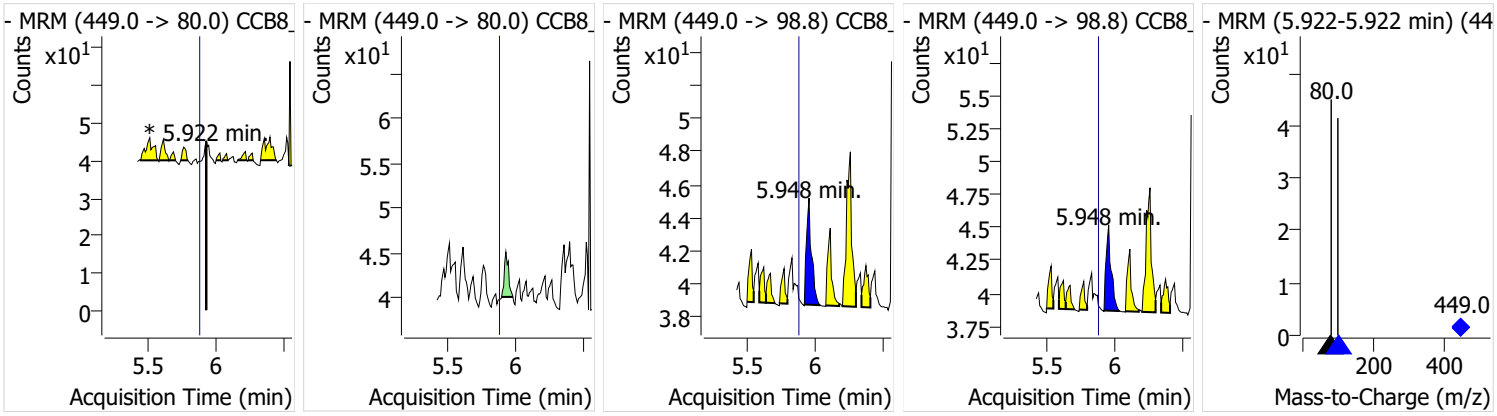

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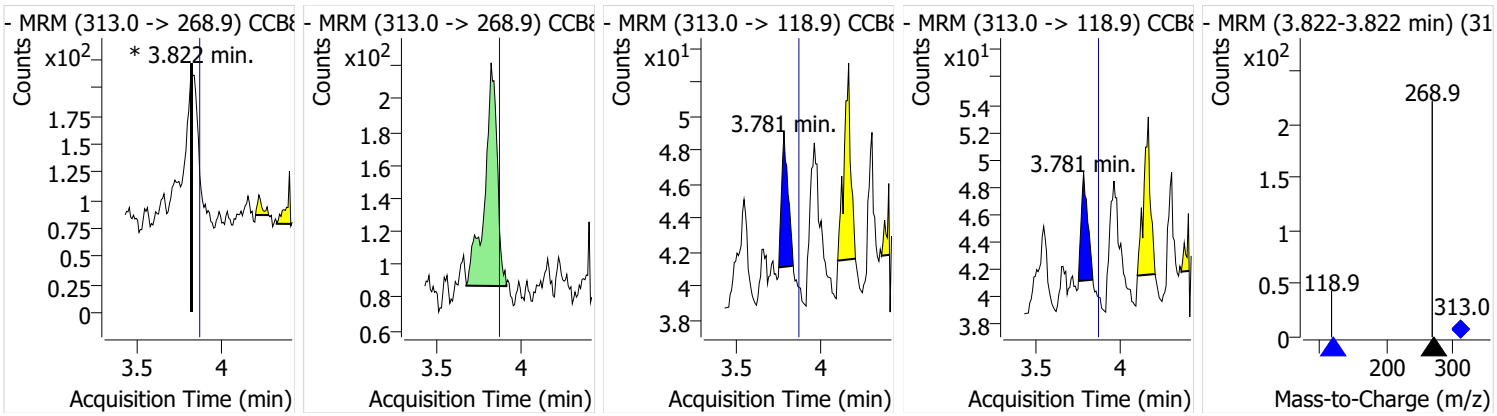

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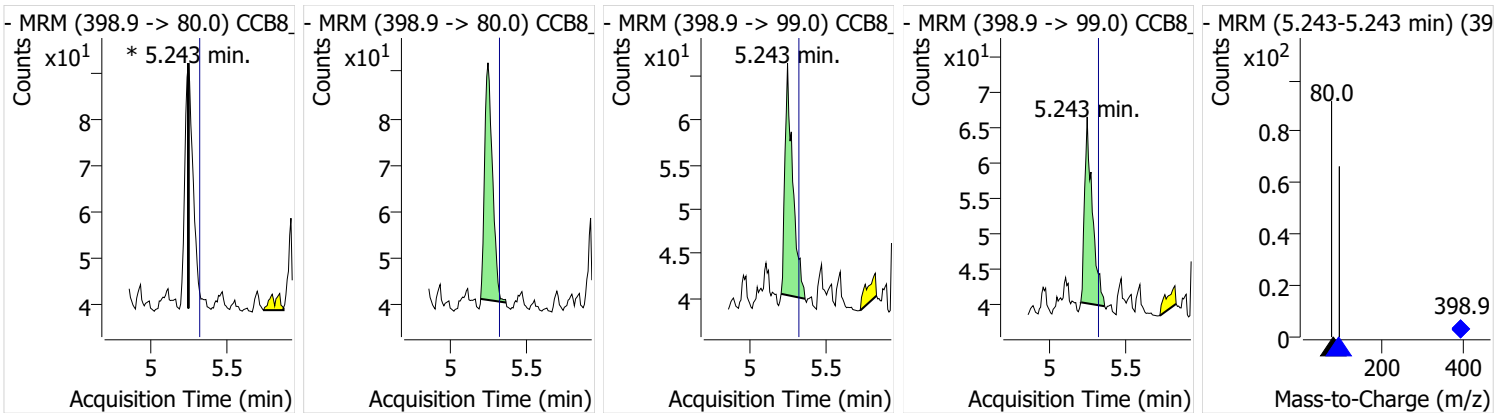

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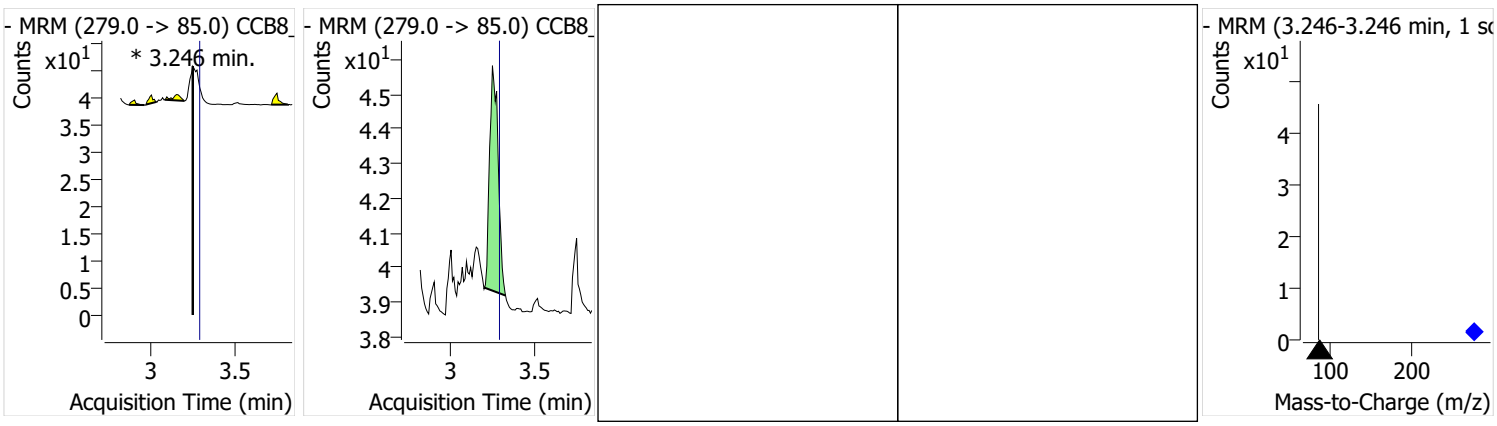

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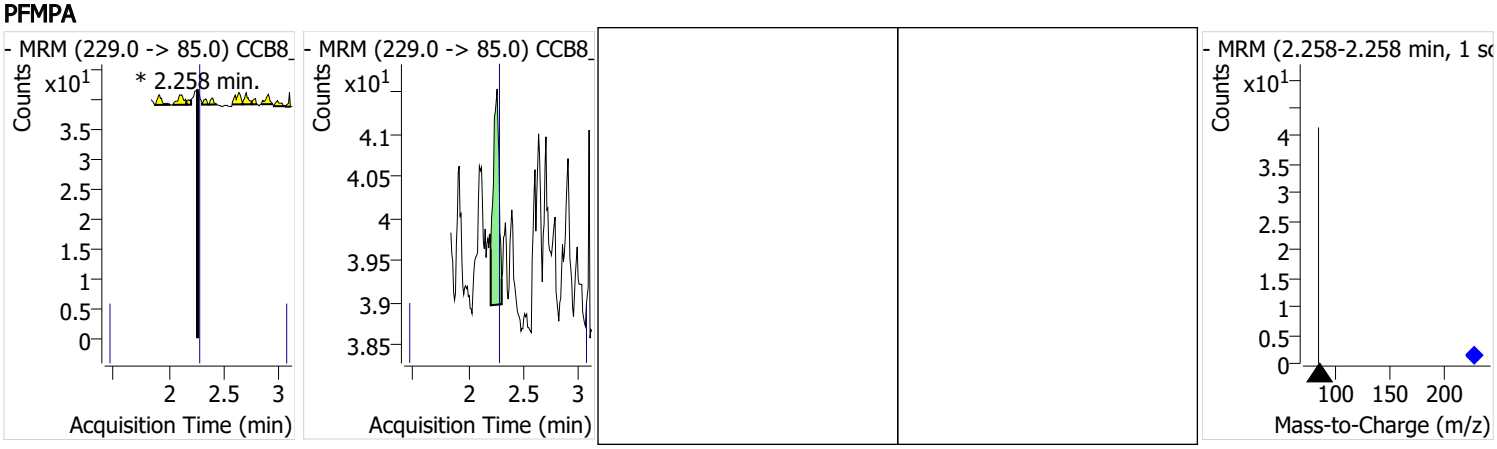

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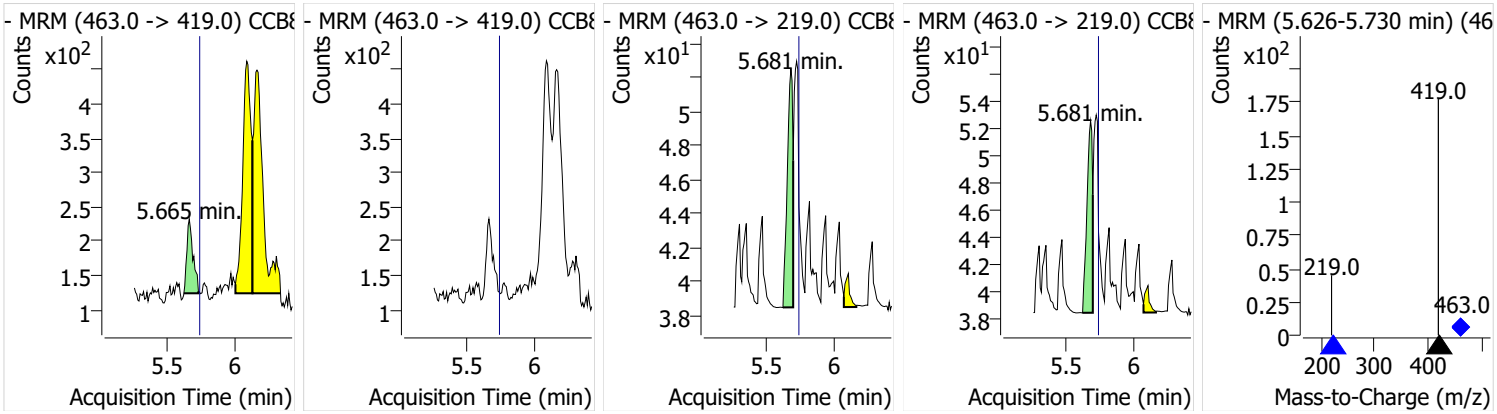

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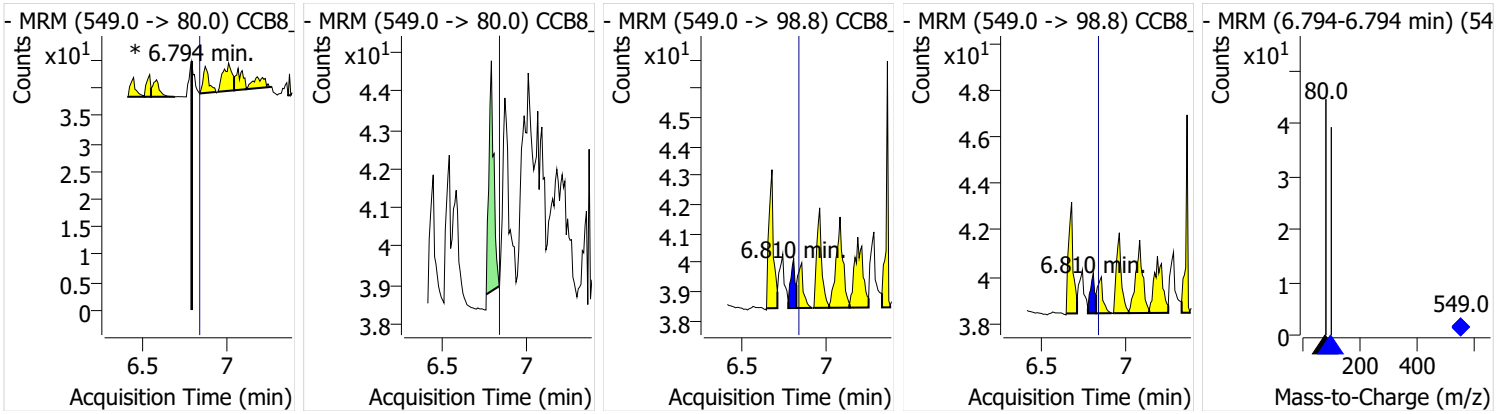

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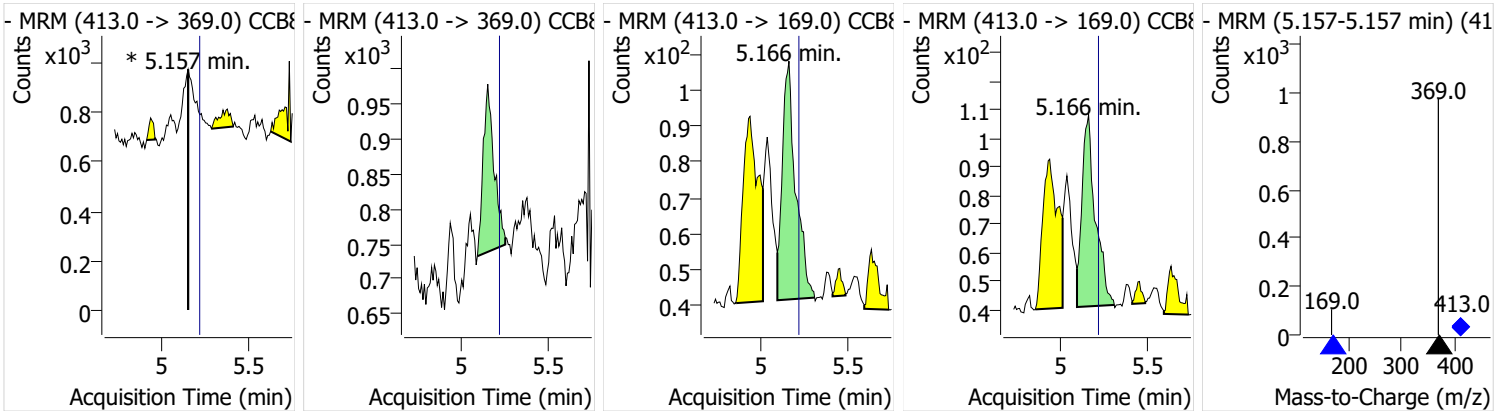

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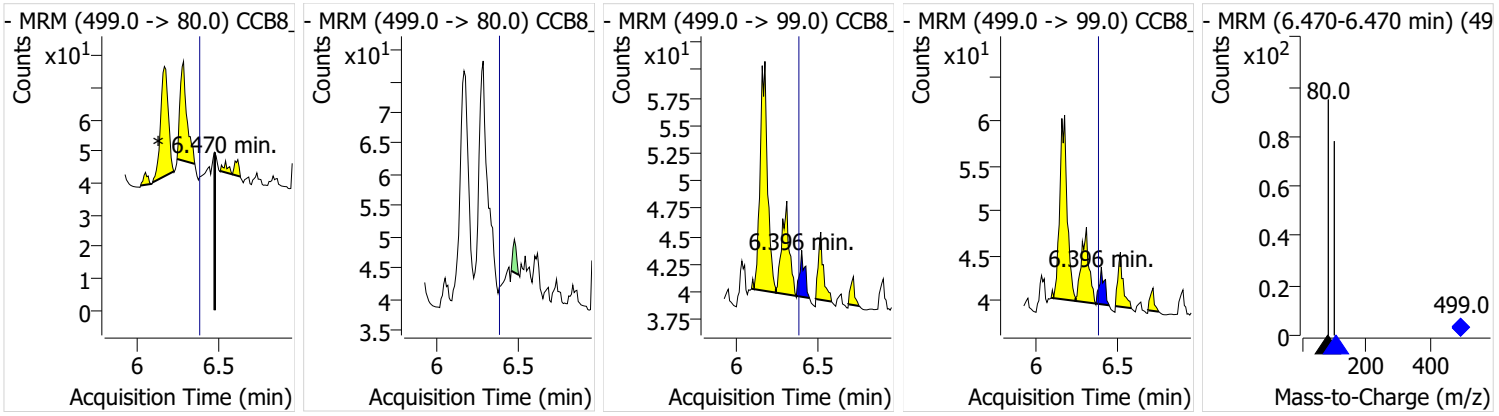

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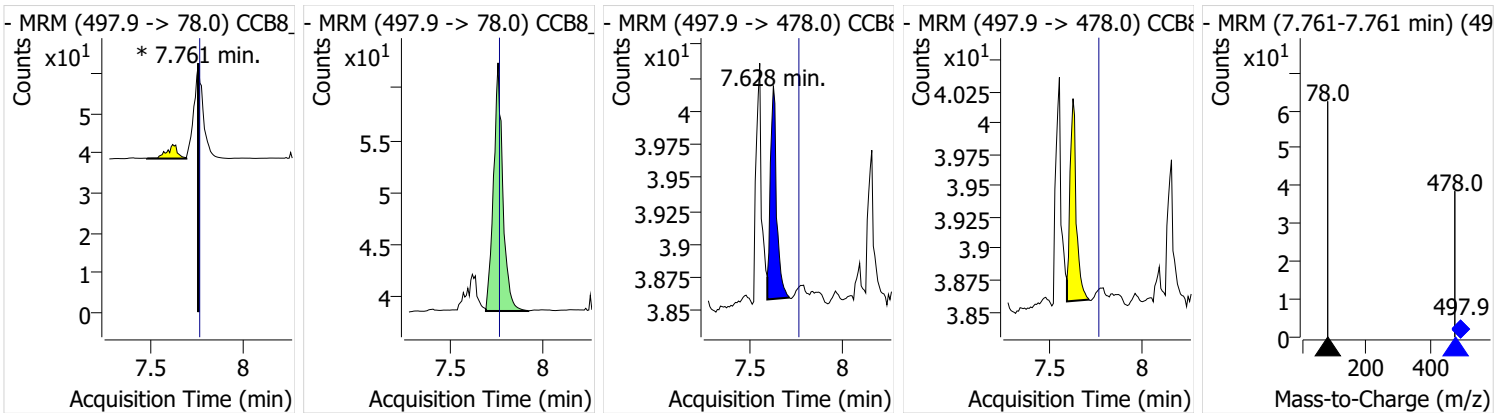
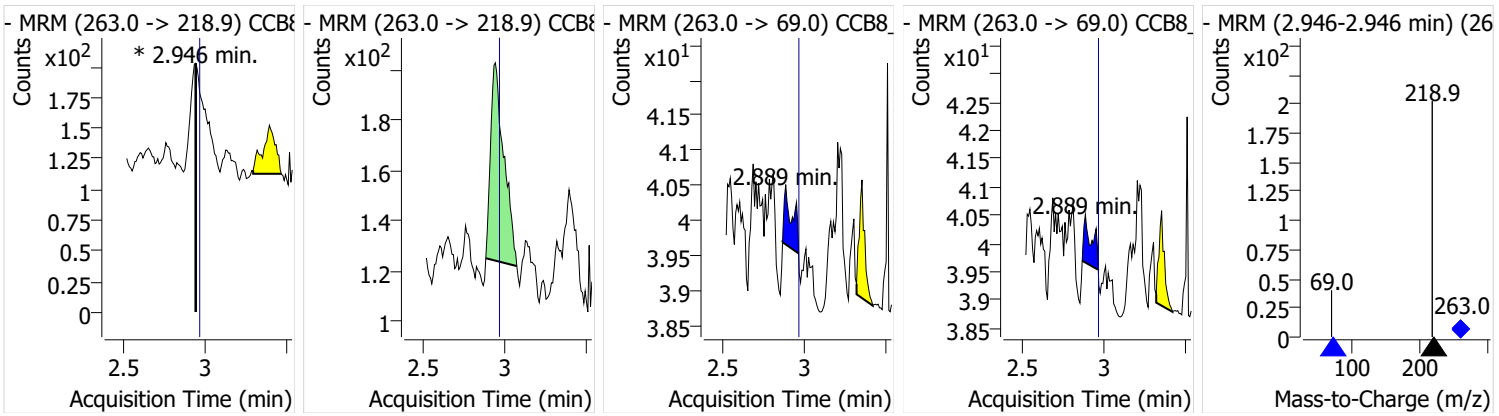


PFPeA



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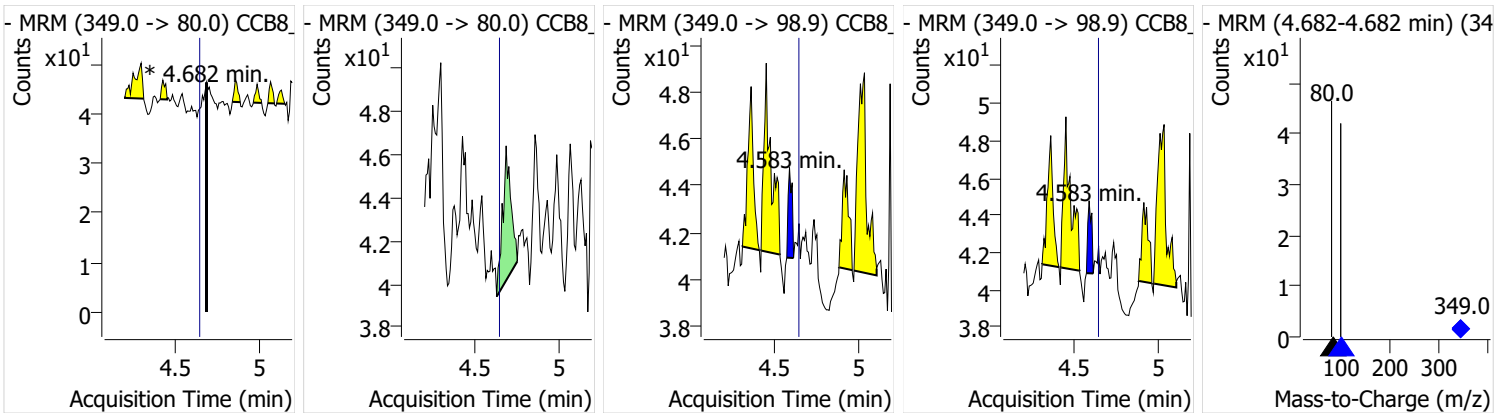

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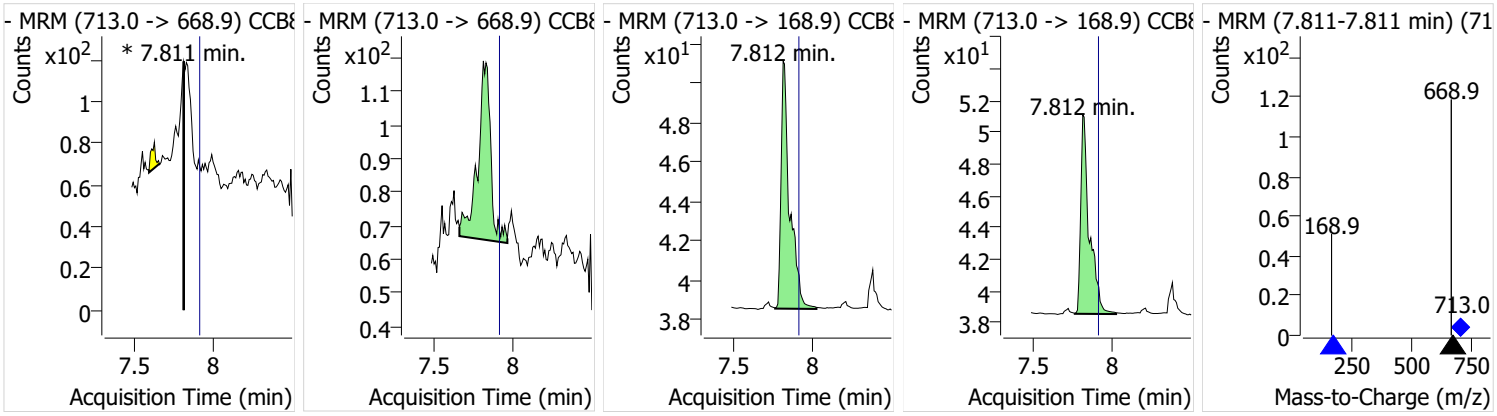
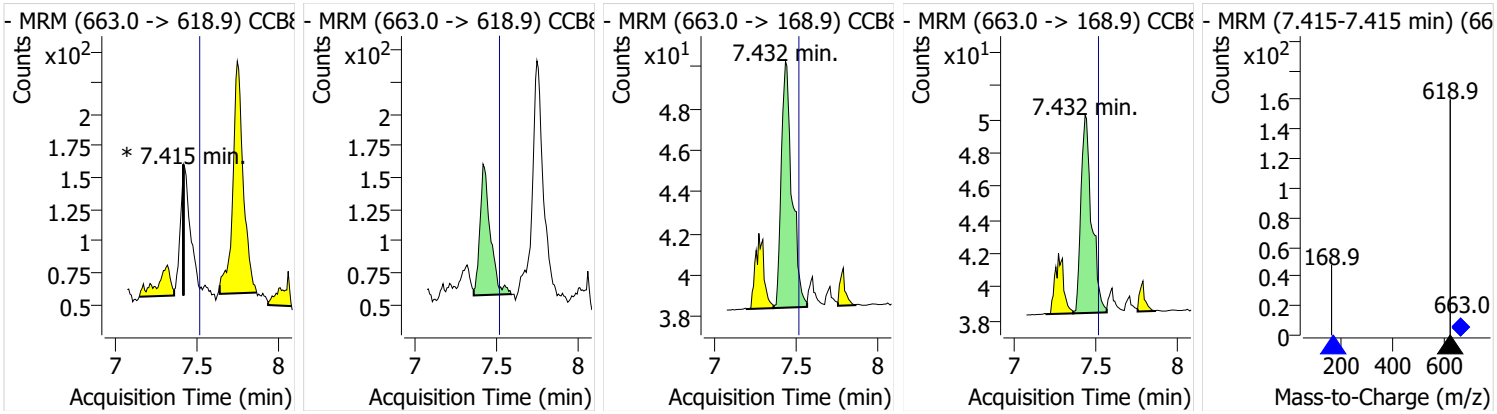


PFTrDA



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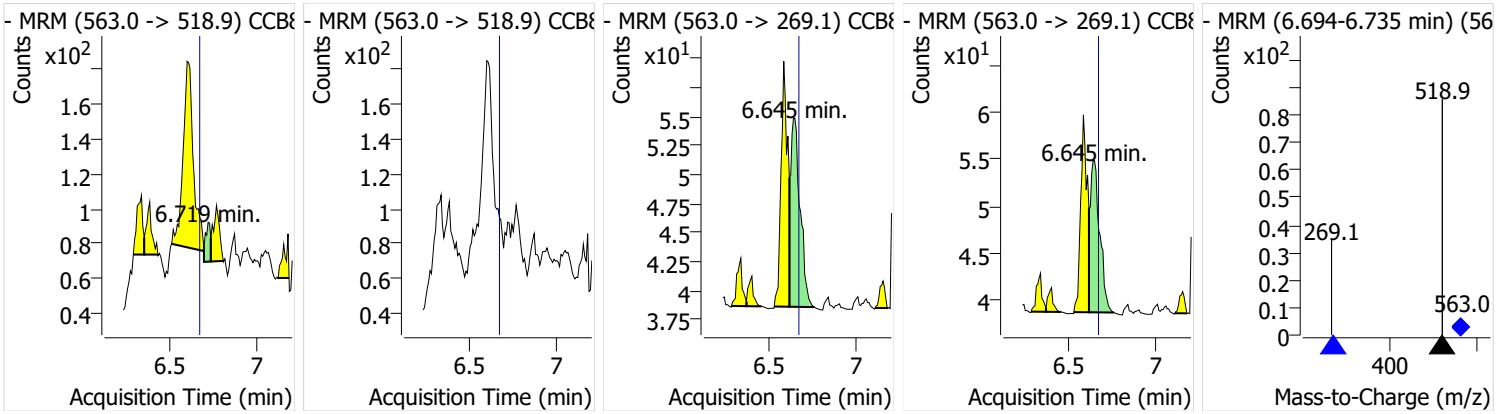

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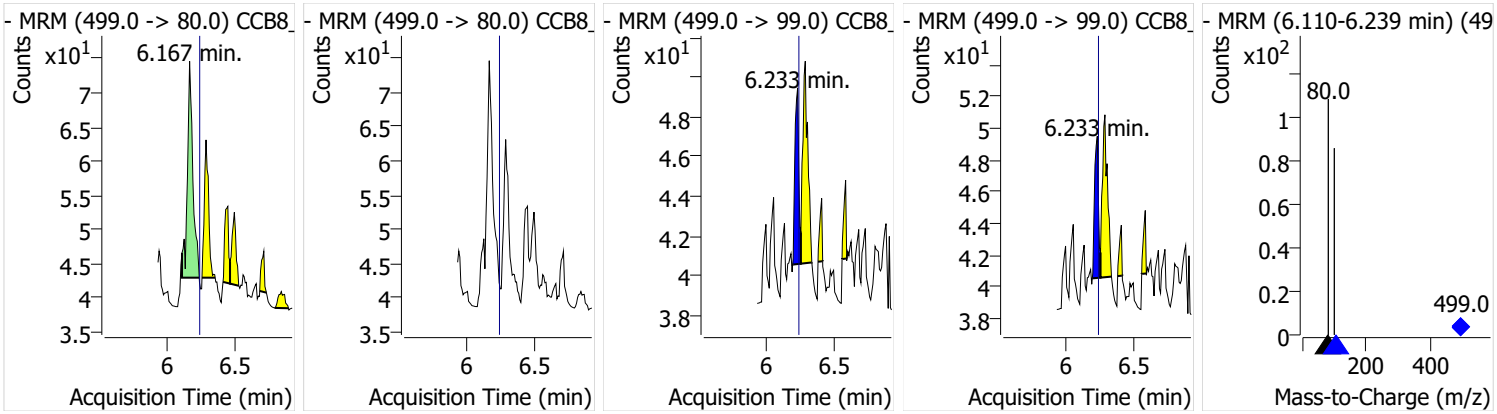

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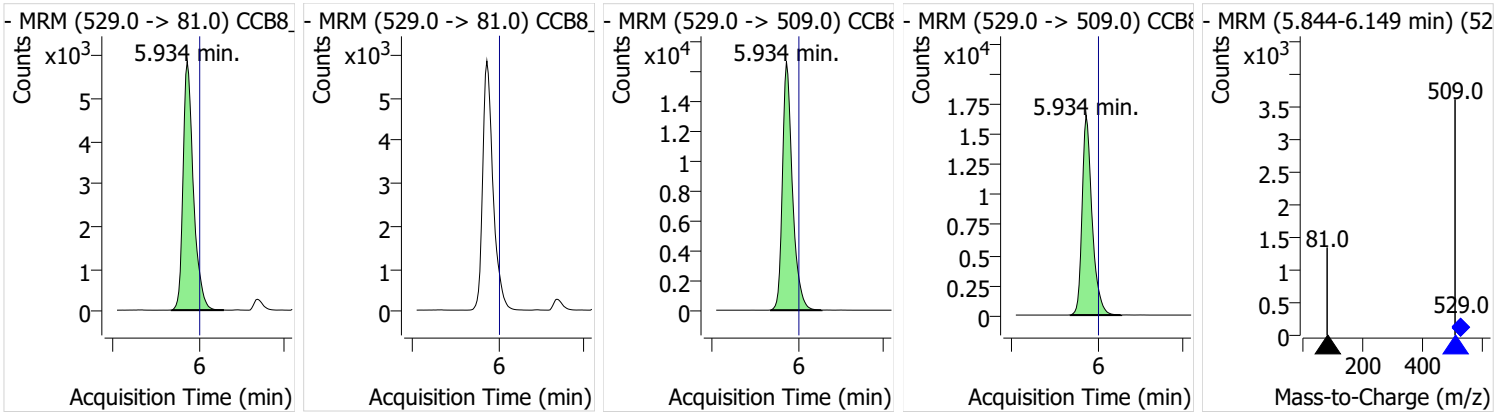

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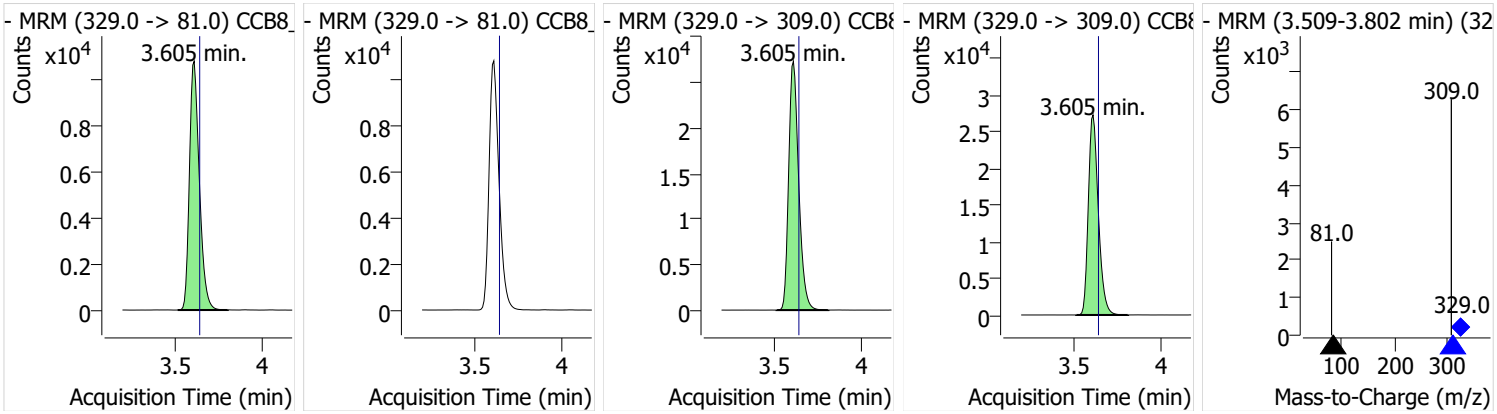

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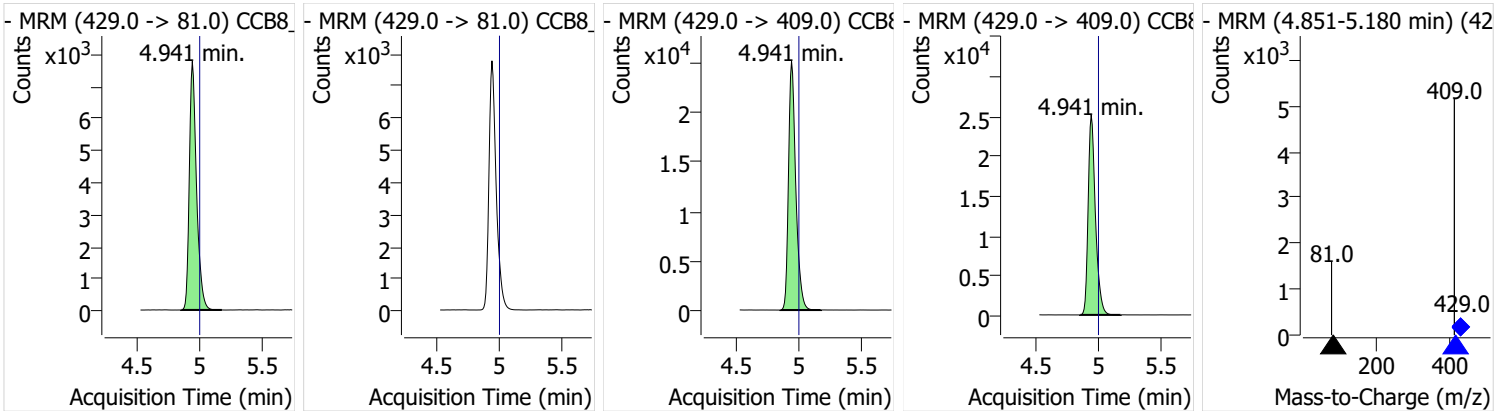
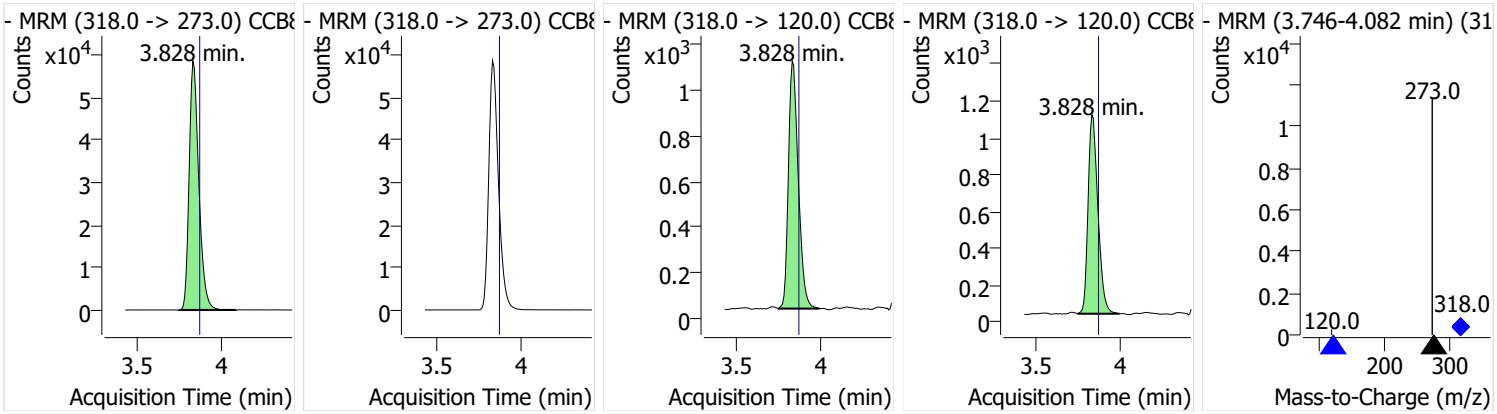


13C5-PFHxA



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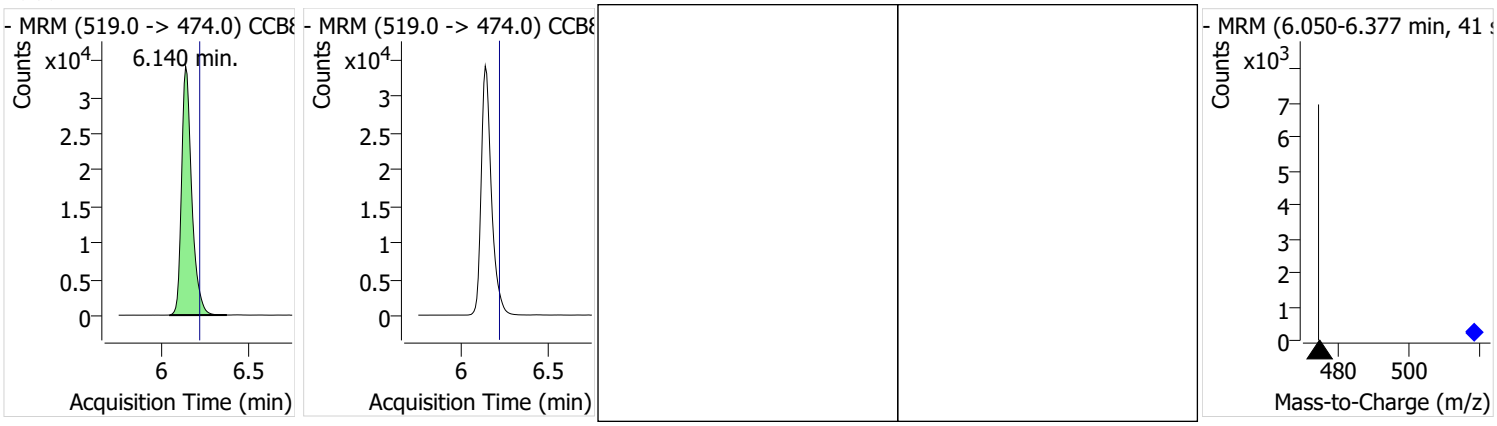

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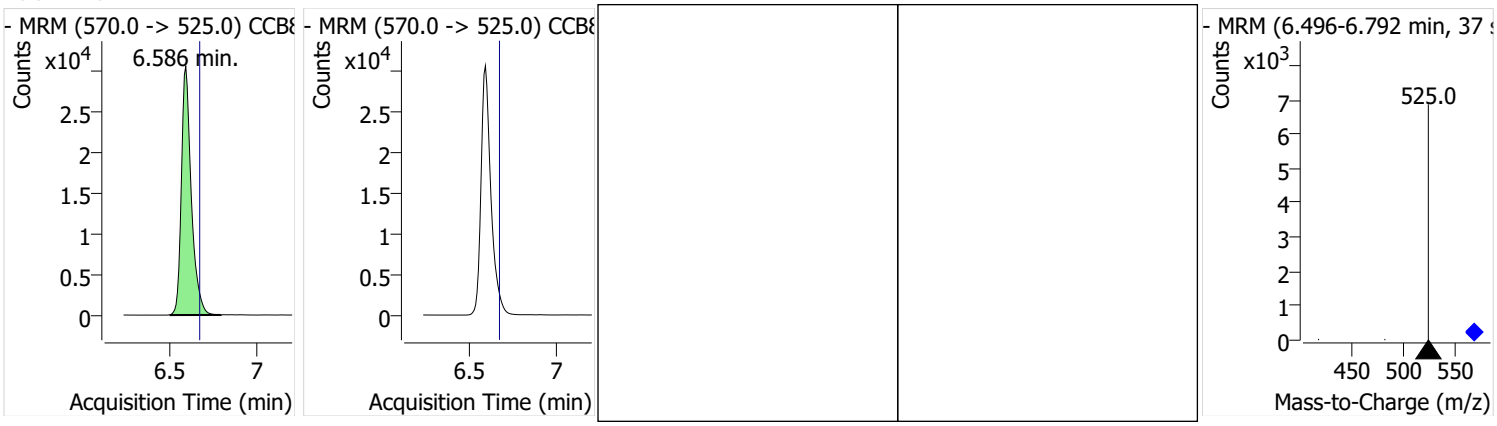

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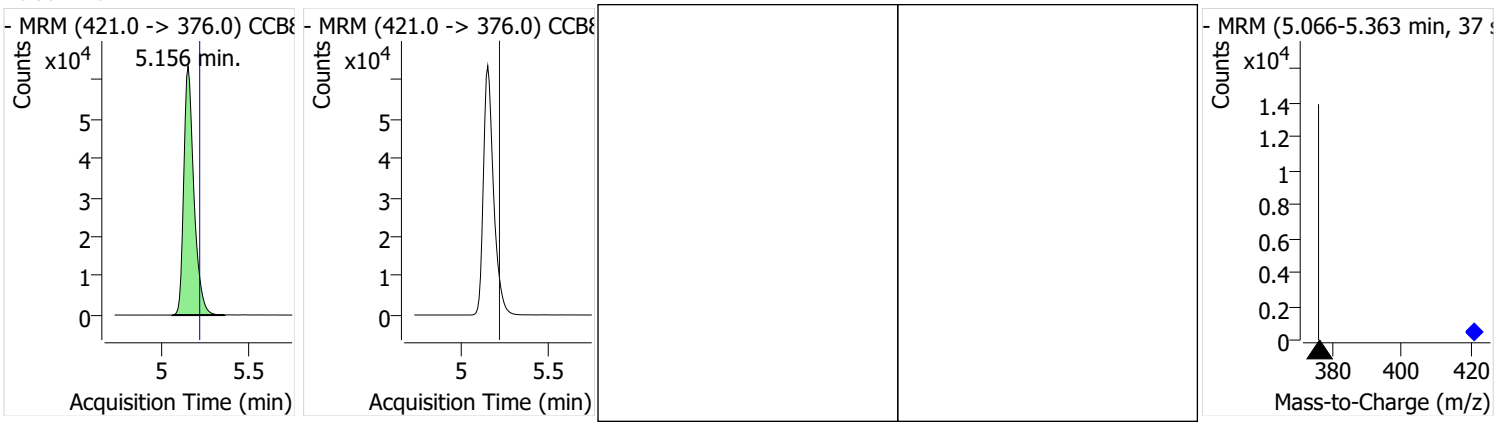

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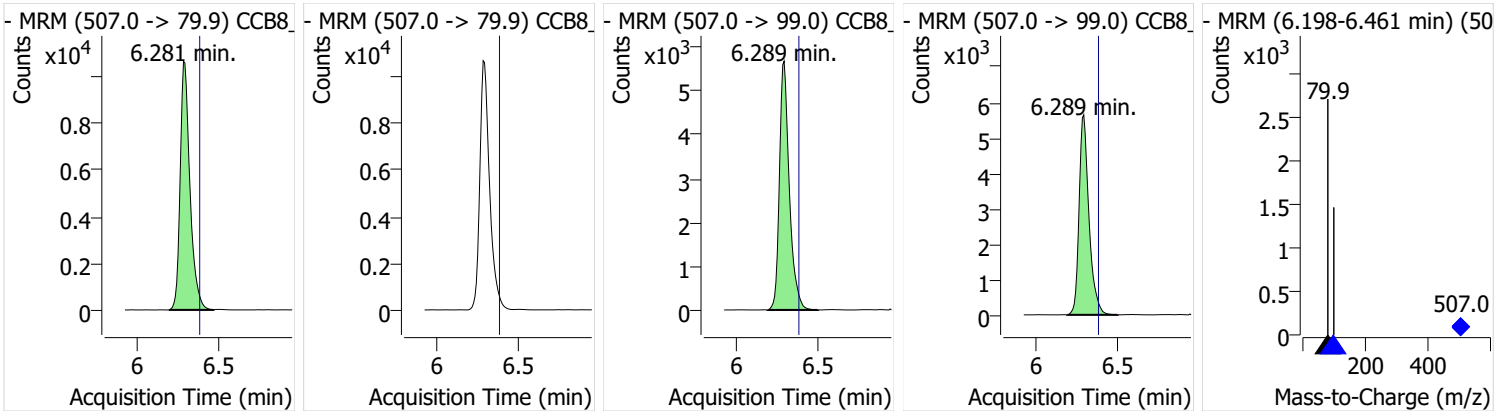

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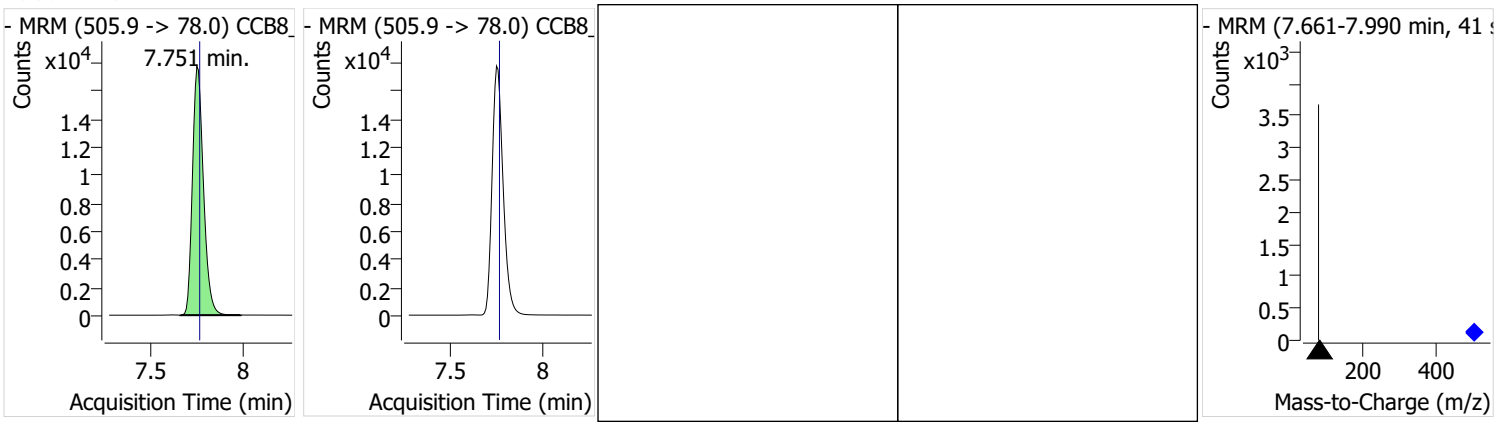

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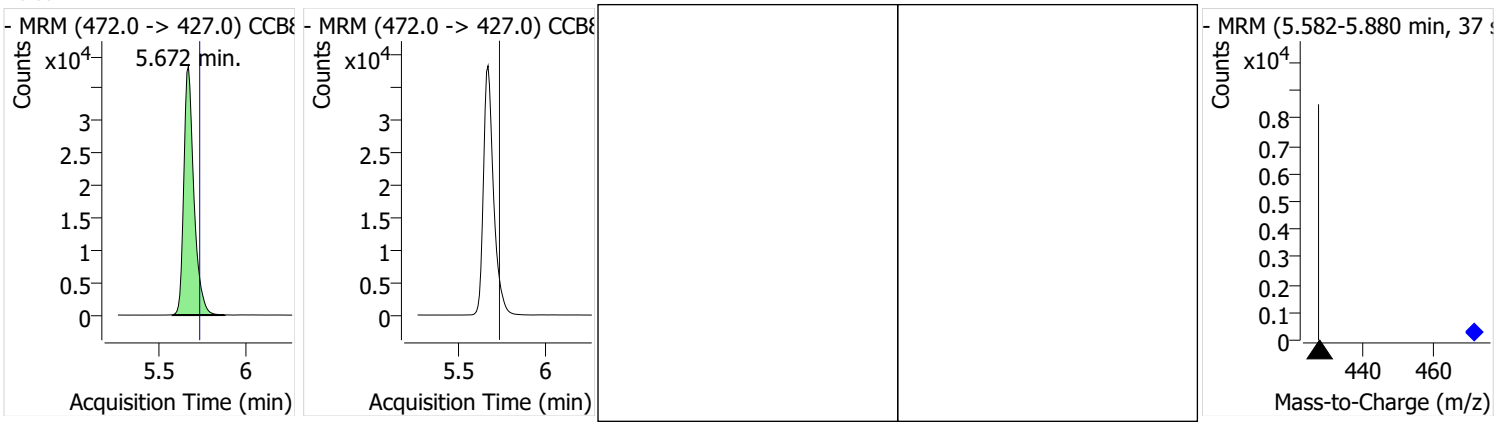

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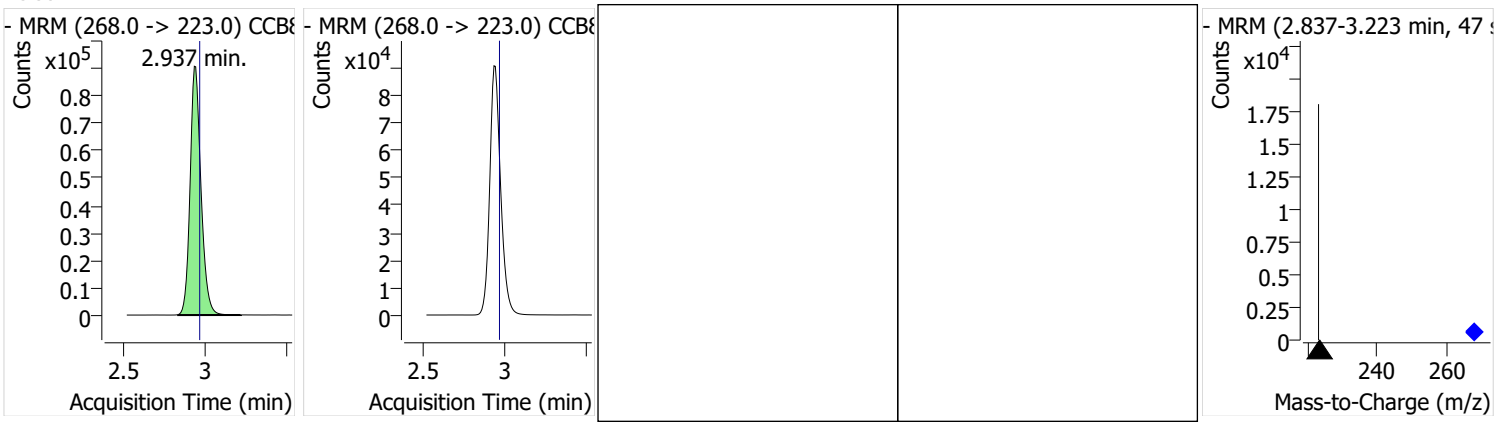

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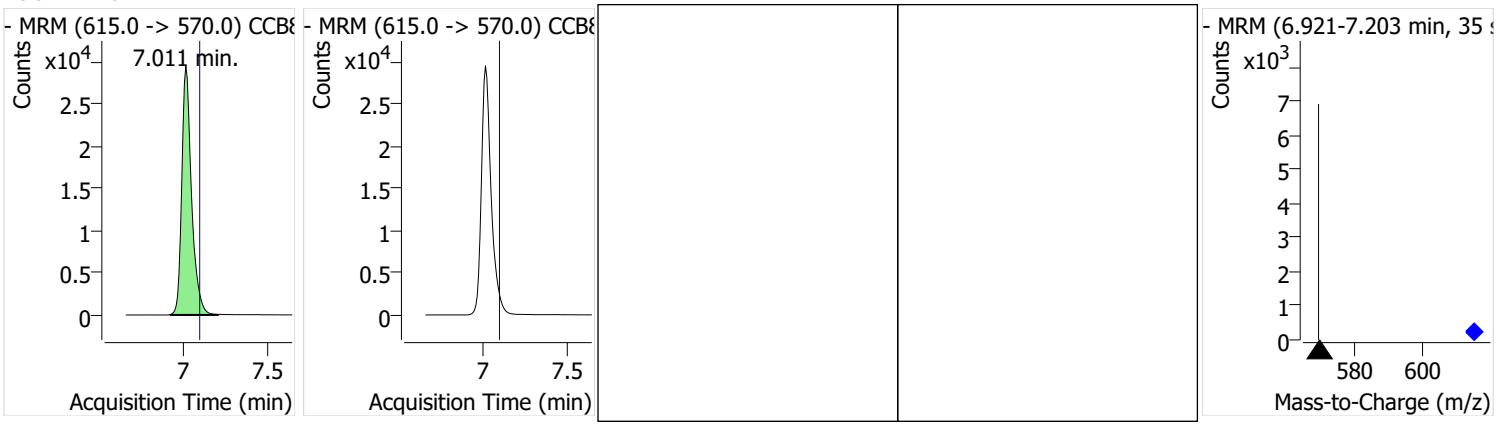

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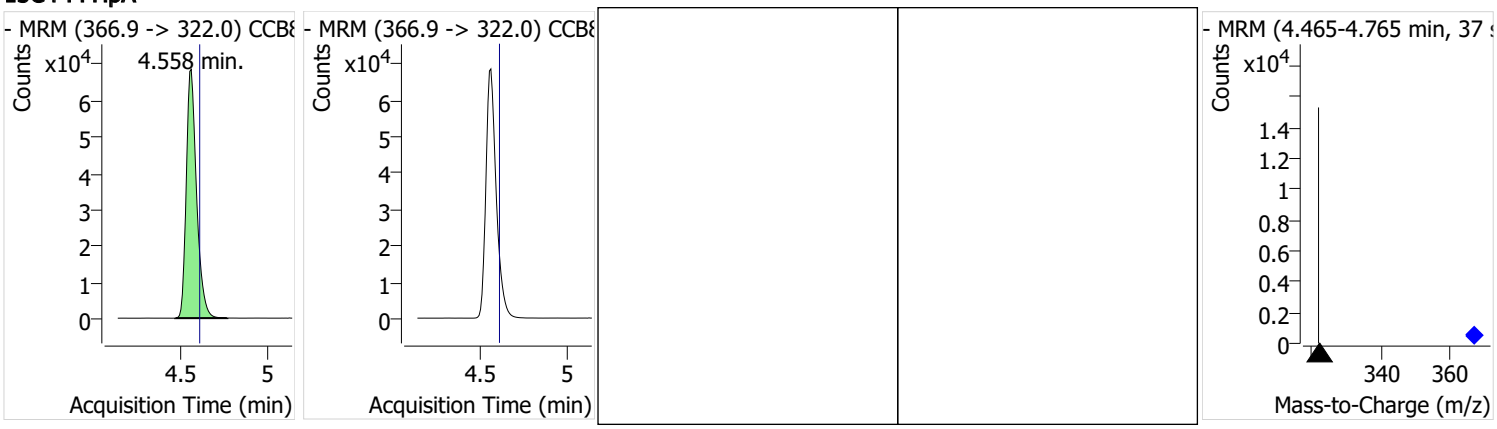

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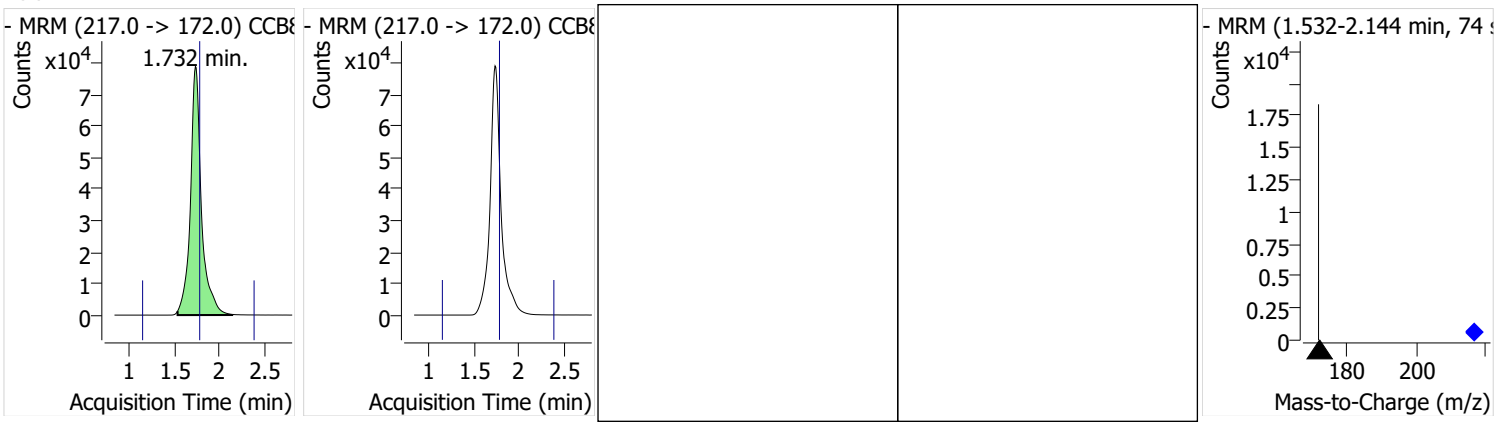

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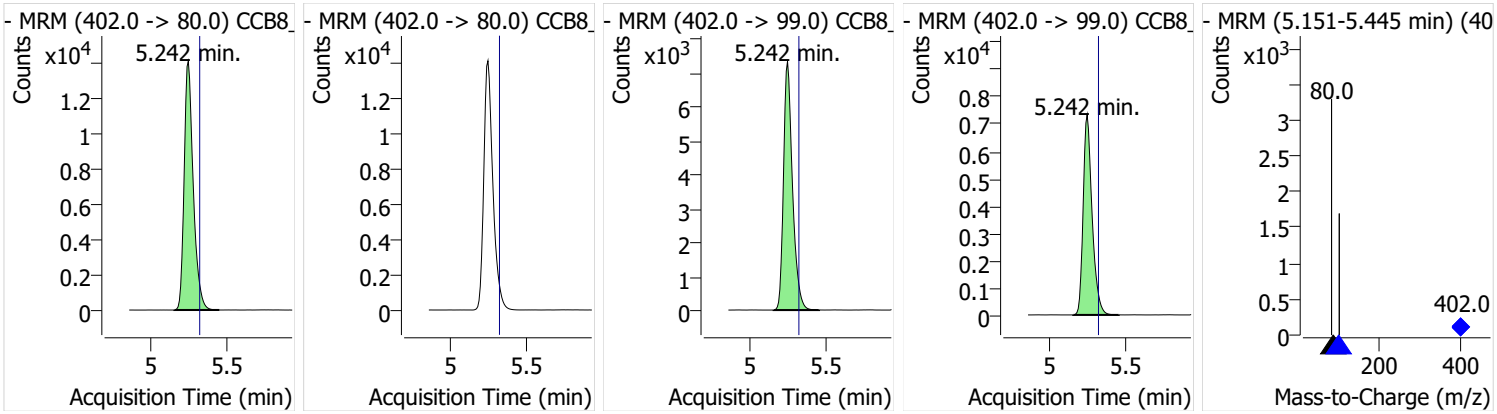

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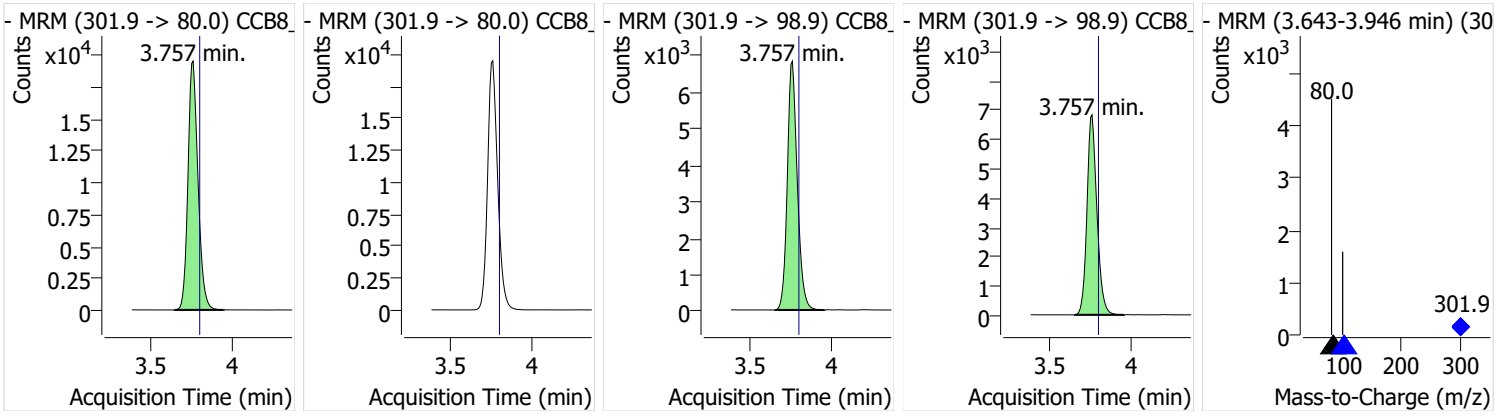

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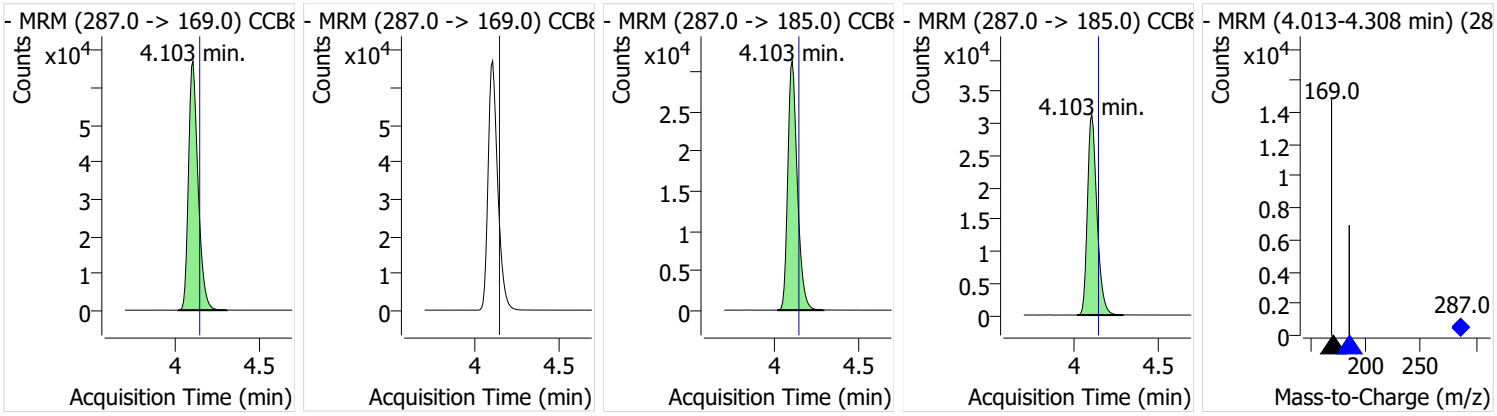

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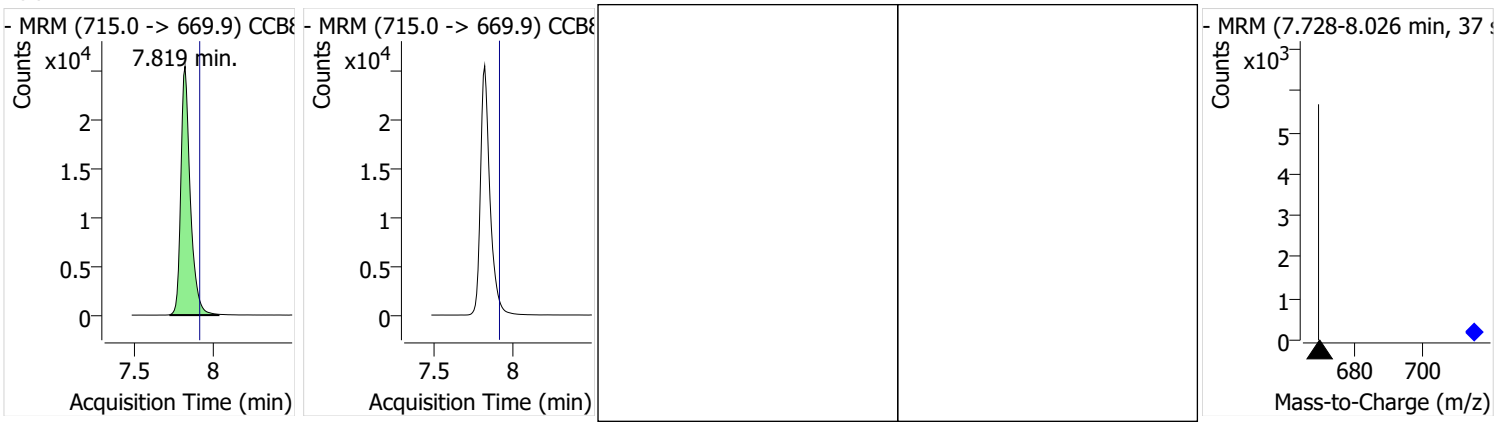
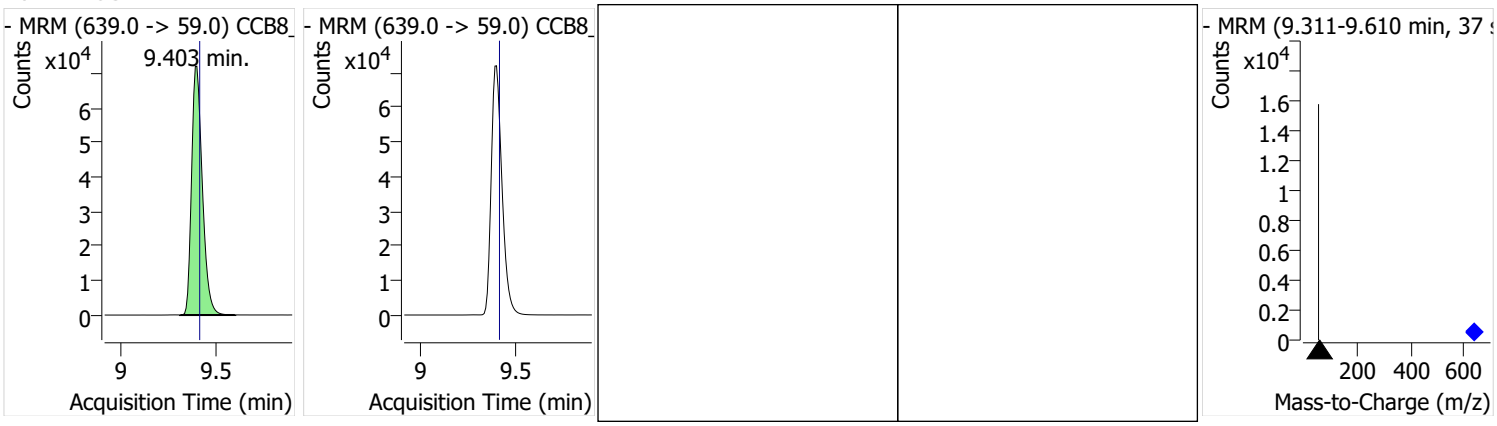


D9-NEtFOSE



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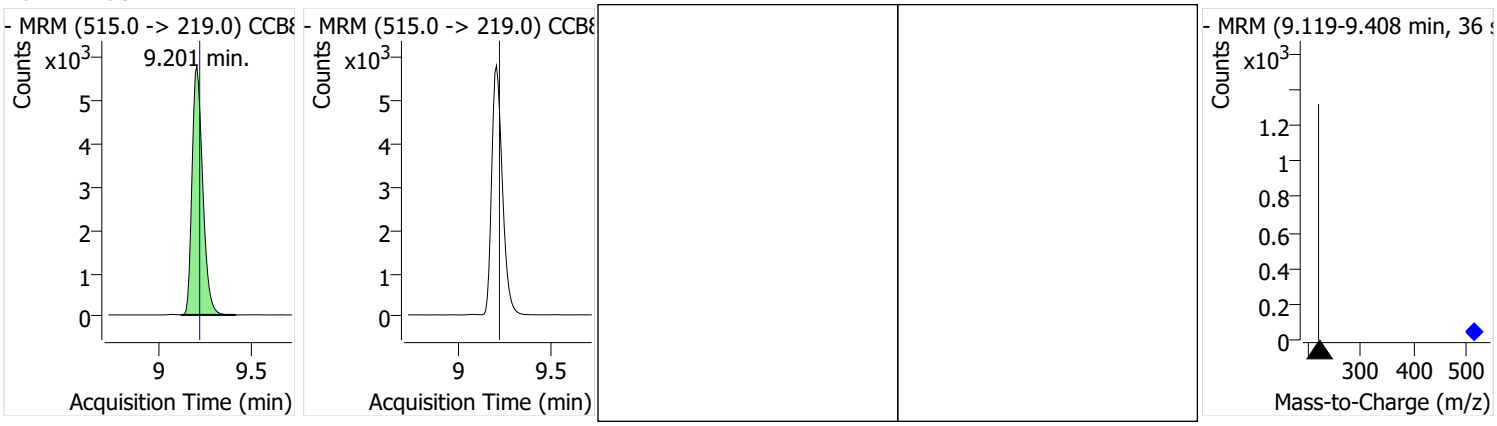

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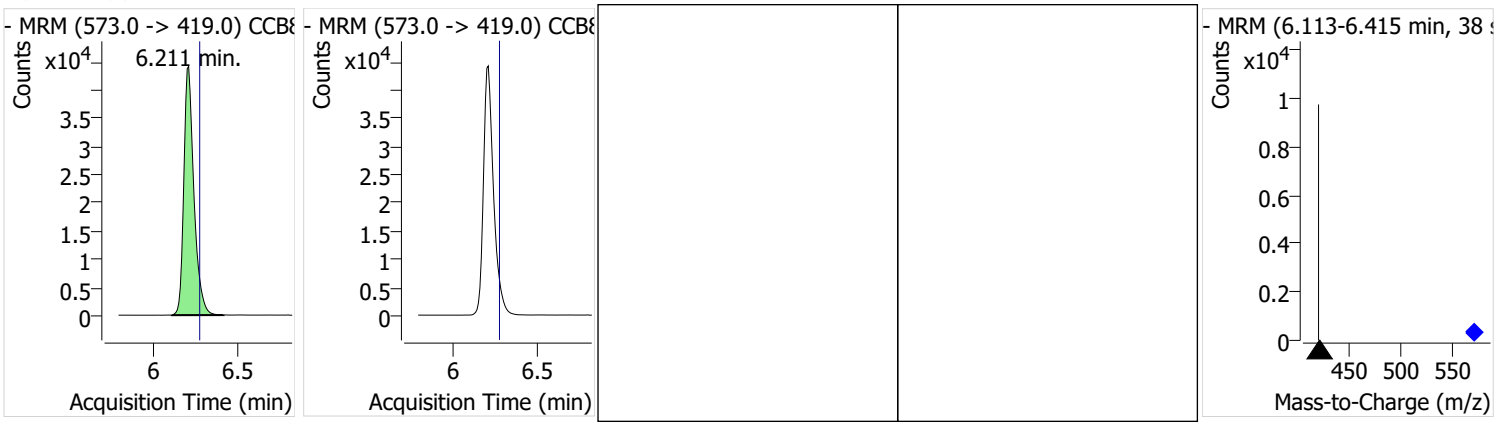

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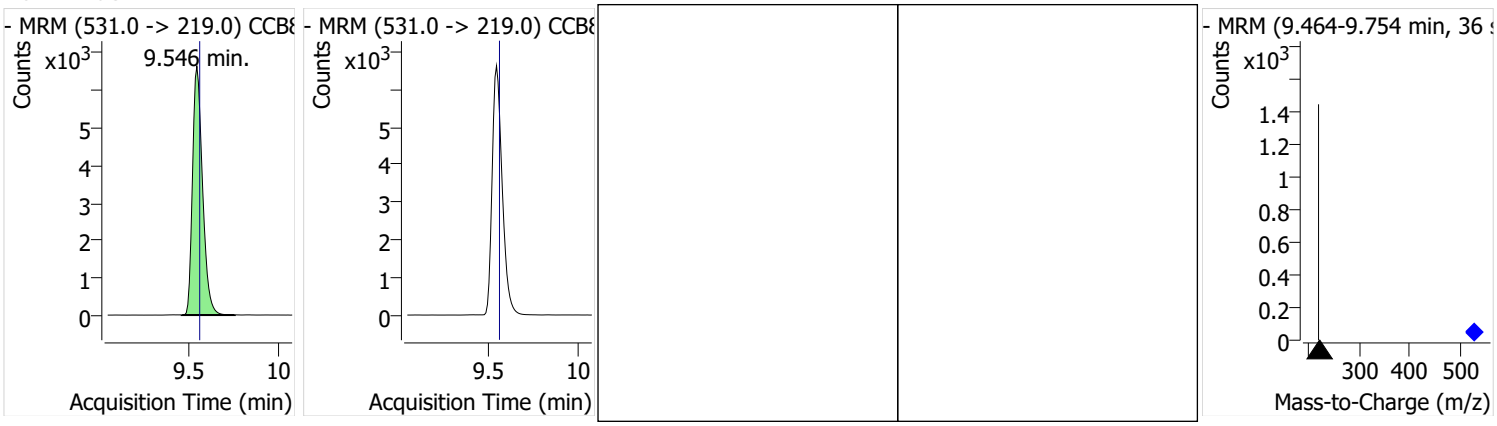

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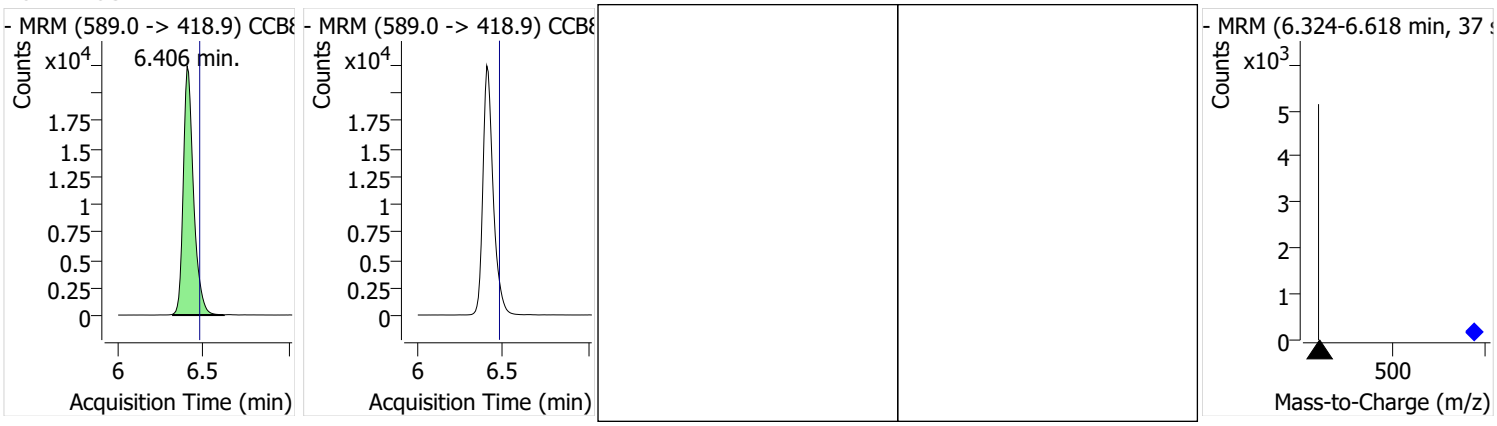

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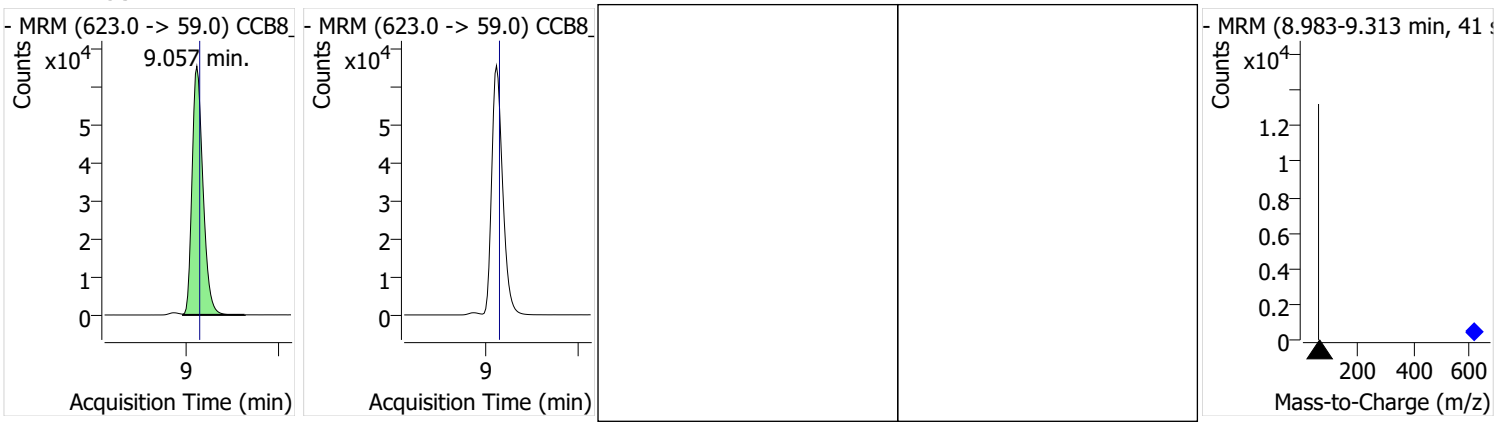


1 - FORM I
ANALYSIS DATA SHEET

Calibration Blank

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	S104823-CCB4	File ID:	CCB9_1633_051724.d
Sampled:		Prepared:	05/17/24 00:00	Analyzed:	05/18/24 12:13
Solids:		Preparation:	B374213	Dilution:	
Batch:	S104823	Sequence:	S104823	Calibration:	2400518	Instrument:	QQQ6
Column:	1				

CAS NO.	COMPOUND	CONC. (ng/mL)	MDL	RL	Q
375-22-4	Perfluorobutanoic acid (PFBA)	0.0	0.32	0.80	
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.0	0.046	0.40	
307-24-4	Perfluorohexanoic acid (PFHxA)	0.0	0.033	0.20	
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.0	0.015	0.20	
335-67-1	Perfluorooctanoic acid (PFOA)	0.0	0.031	0.20	
375-95-1	Perfluorononanoic acid (PFNA)	0.0	0.014	0.20	
335-76-2	Perfluorodecanoic acid (PFDA)	0.0	0.018	0.20	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.0	0.023	0.20	
307-55-1	Perfluorododecanoic acid (PFDoA)	0.0	0.022	0.20	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.0	0.022	0.20	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.0	0.020	0.20	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.0	0.021	0.20	
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.0	0.026	0.20	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.0	0.079	0.20	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.0	0.021	0.20	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.0	0.032	0.20	
68259-12-1	Perfluorononanesulfonic acid (PFNS)	0.0	0.022	0.20	
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.0	0.032	0.20	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	0.0	0.031	0.20	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (	0.0	0.070	0.80	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid ((	0.0	0.50	0.80	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (	0.0	0.093	0.80	
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.0	0.031	0.20	
31506-32-8	N-methyl perfluoroocatnesulfonamide (NMeF	0.0	0.025	0.20	
4151-50-2	N-ethyl perfluorooctanesulfonamide (NEtFOS	0.0	0.023	0.20	
2355-31-9	N-MeFOSAA (NMeFOSAA)	0.0	0.036	0.20	
2991-50-6	N-EtFOSAA (NEtFOSAA)	0.0	0.030	0.20	
24448-09-7	N-methylperfluorooctanesulfonamidoethanol(	0.0	0.22	2.0	
1691-99-2	N-ethylperfluorooctanesulfonamidoethanol (N	0.0	0.22	2.0	
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPC	0.0	0.051	0.80	

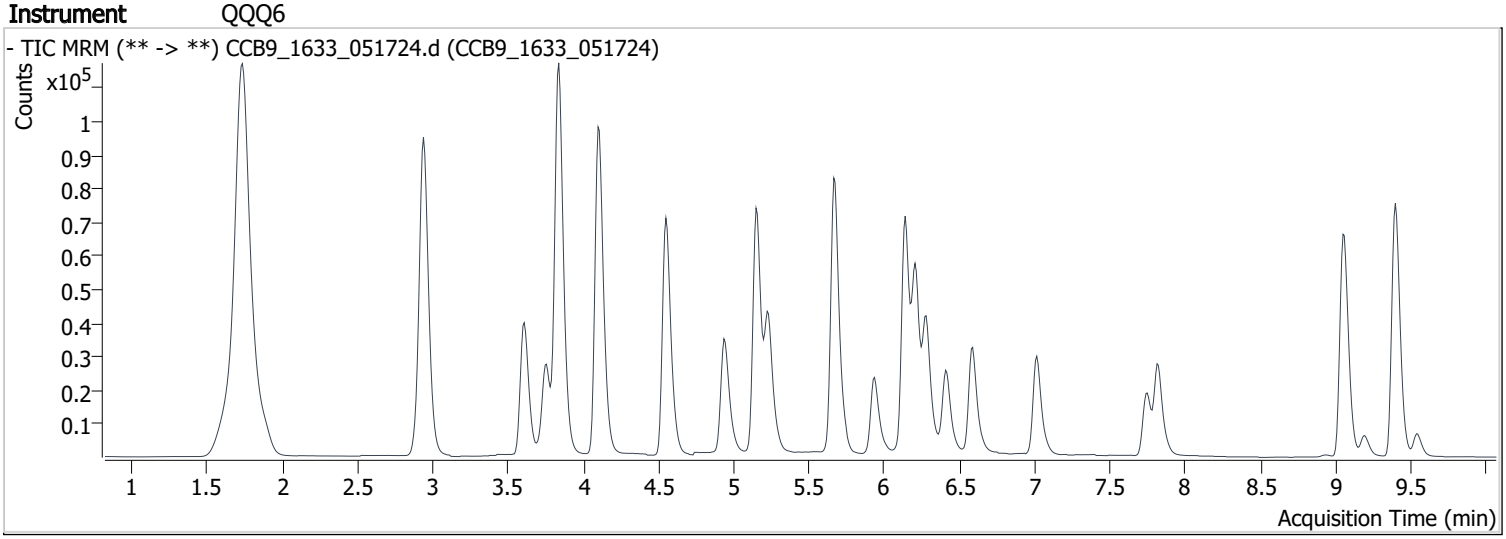
1 - FORM I
ANALYSIS DATA SHEET

Calibration Blank

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	S104823-CCB4	File ID:	CCB9_1633_051724.d
Sampled:		Prepared:	05/17/24 00:00	Analyzed:	05/18/24 12:13
Solids:		Preparation:	B374213	Dilution:	
Batch:	S104823	Sequence:	S104823	Calibration:	2400518
Instrument:	QQQ6				
Column:	1				

CAS NO.	COMPOUND	CONC. (ng/mL)	MDL	RL	Q
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADON/	0.0	0.060	0.80	
756426-58-1	9Cl-PF3ONS (F53B Minor)	0.0	0.058	0.80	
763051-92-9	11Cl-PF3OUdS (F53B Major)	0.0	0.089	0.80	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)(3:3	0.0	0.19	2.0	
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)	0.0	1.3	10	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)(7:3	0.0	1.5	10	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEE	0.0	0.032	0.40	
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.0	0.033	0.40	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	0.0	0.033	0.40	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.0	0.060	0.40	

Batch Path	R:\Data\MAY2024\051724\QuantResults\1633_CCVS_CORRECTED.batch.bin		
Analysis Time	5/20/2024 3:06 PM	**Last Calib Update**	5/9/2024 9:16 AM
Acq. Time	5/18/2024 12:13 PM	**Data File**	CCB9_1633_051724.d
Sample Type	Sample	**Sample Name**	CCB9_1633_051724
Dilution	1	**Acq. Method**	1633_ACQUISITION_01.m
Sample Comment	E#24E0458	**Processing method**	1633_050824.m
Instrument	QQQ6		



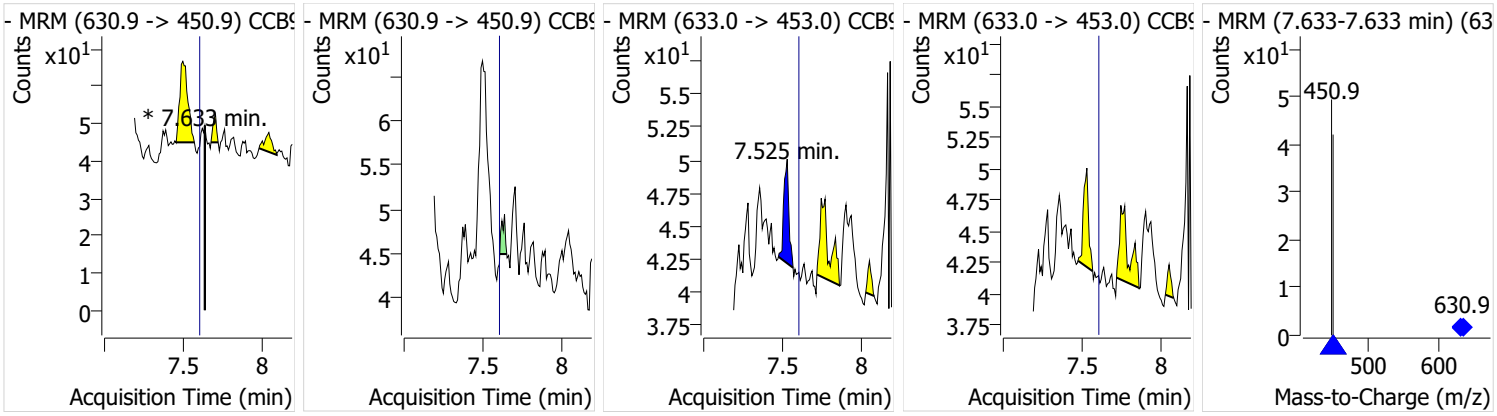
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
11Cl-PF3OUdS	7.633	0			13C3-HFPODA - ISTD	4.103	266461	-	ng/ml	✔	1	ALB 5/20/24
633.0 -> 453.0				*								
3:3FTCA	2.532	0			13C5-PFPeA - ISTD	2.937	417130	-	ng/ml	✔	1	ALB 5/20/24
241.0 -> 117.0				*								
4:2FTS	3.598	0			13C2-4:2FTS - ISTD	3.605	45301	-	ng/ml	✔	1	ALB 5/20/24
327.0 -> 80.9				*								
5:3FTCA	4.318	0			13C5-PFHxA - ISTD	3.836	230391	-	ng/ml	✔	1	ALB 5/20/24
341.0 -> 217.0				*								
6:2FTS	5.040	0			13C2-6:2FTS - ISTD	4.933	30457	-	ng/ml	✔	1	ALB 5/20/24
427.0 -> 80.9				*								
7:3FTCA	5.658	0			13C5-PFHxA - ISTD	3.836	230391	-	ng/ml	✔	1	ALB 5/20/24
441.0 -> 317.0				*								
8:2FTS	5.959	0			13C2-8:2FTS - ISTD	5.934	24656	-	ng/ml	✔	1	ALB 5/20/24
527.0 -> 81.0				*								
9Cl-PF3ONS	6.745	0			13C3-HFPODA - ISTD	4.103	266461	-	ng/ml	✔	1	ALB 5/20/24
533.0 -> 353.0				*								
ADONA	4.805	0			13C3-HFPODA - ISTD	4.103	266461	-	ng/ml	✔	1	ALB 5/20/24
377.0 -> 85.1				*								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA	4.104	0			13C3-HFPODA - ISTD	4.103	266461	-	ng/ml	✔	1	ALB 5/20/24
285.0 -> 184.9				*								
NEtFOSA	9.630	0			D5-NEtFOSA - ISTD	9.538	24539	-	ng/ml	✔	1	ALB 5/20/24
526.0 -> 219.0				*								
NEtFOSAA	6.406	0			D5-NEtFOSAA - ISTD	6.406	97224	-	ng/ml	✔	1	ALB 5/20/24
584.0 -> 526.0				*								
NEtFOSE	9.453	0			D9-NEtFOSE - ISTD	9.394	293840	-	ng/ml	✔	1	ALB 5/20/24
NFDHA	3.758	0			13C5-PFHxA - ISTD	3.836	230391	-	ng/ml	✔	1	ALB 5/20/24
295.0 -> 85.0				*								
NMeFOSA	9.220	0			D3-NMeFOSA - ISTD	9.193	22991	-	ng/ml	✔	1	ALB 5/20/24
512.0 -> 219.0				*								
NMeFOSAA	6.228	0			D3-NMeFOSAA - ISTD	6.211	185930	-	ng/ml	✔	1	ALB 5/20/24
570.0 -> 418.9				*								
NMeFOSE	9.082	0			D7-NMeFOSE - ISTD	9.049	265905	-	ng/ml	✔	1	ALB 5/20/24
PFBA	1.729	0			13C4-PFBA - ISTD	1.732	674860	-	ng/ml	✔	1	ALB 5/20/24
PFBS	3.587	0			13C3-PFBS - ISTD	3.757	84249	-	ng/ml	✔	1	ALB 5/20/24
298.9 -> 98.8				*								
PFDA	6.140	0			13C6-PFDA - ISTD	6.140	142910	-	ng/ml	✔	1	ALB 5/20/24
513.0 -> 219.0				*								
PFDoA	7.137	0			13C2-PFDoA - ISTD	7.011	118015	-	ng/ml	✔	1	ALB 5/20/24
613.0 -> 319.0				*								
PFDoS	8.195	0			13C8-PFOS - ISTD	6.281	44606	-	ng/ml	✔	1	ALB 5/20/24
698.9 -> 99.0				*								
PFDS	7.345	0			13C8-PFOS - ISTD	6.281	44606	-	ng/ml	✔	1	ALB 5/20/24
599.0 -> 98.8				*								
PFEESA	4.206	0			13C5-PFHxA - ISTD	3.836	230391	-	ng/ml	✔	1	ALB 5/20/24
315.0 -> 83.0				*								
PFHpA	4.550	0			13C4-PFHpA - ISTD	4.549	281240	-	ng/ml	✔	1	ALB 5/20/24
362.9 -> 169.0				*								
PFHpS	5.865	0			13C8-PFOS - ISTD	6.281	44606	-	ng/ml	✔	1	ALB 5/20/24
449.0 -> 98.8				*								

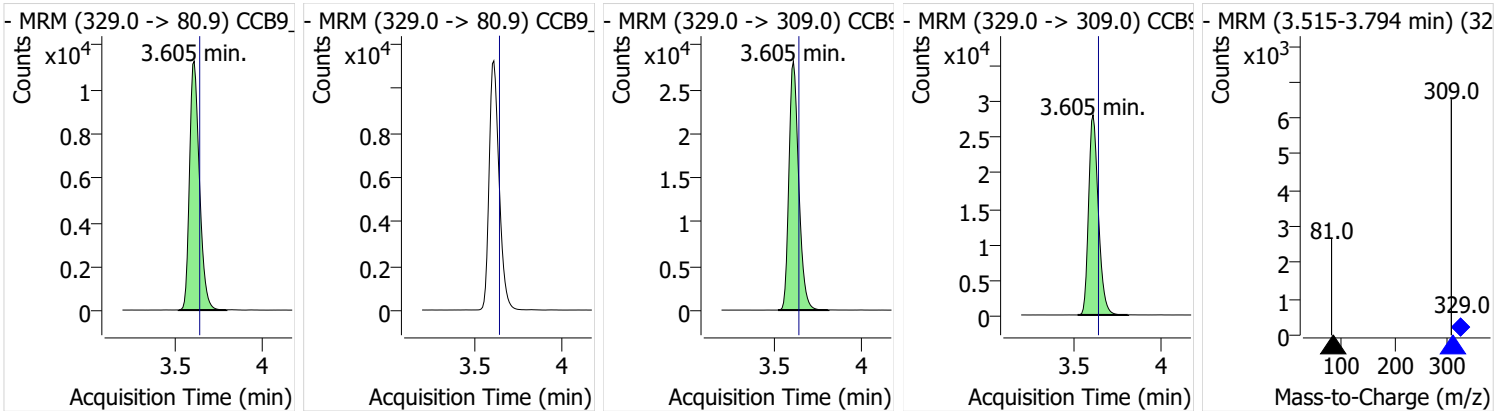
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFHxA	3.822	0			13C5-PFHxA - ISTD	3.836	230391	-	ng/ml	✔	1	ALB 5/20/24
313.0 -> 118.9				*								
PFHxS	5.227	0			13C3-PFHxS - ISTD	5.234	57768	-	ng/ml	✔	1	ALB 5/20/24
398.9 -> 99.0				*								
PFMBA	3.246	0			13C5-PFPeA - ISTD	2.937	417130	-	ng/ml	✔	1	ALB 5/20/24
PFMPA	2.275	0			13C5-PFPeA - ISTD	2.937	417130	-	ng/ml	✔	1	ALB 5/20/24
PFNA	5.681	564	13.00		13C9-PFNA - ISTD	5.664	0	-	ng/ml			
463.0 -> 219.0			54.67	23.2								
PFNS	6.769	0			13C8-PFOS - ISTD	6.281	44606	-	ng/ml	✔	1	ALB 5/20/24
549.0 -> 98.8				*								
PFOA	5.149	0			13C8-PFOA - ISTD	5.148	254376	-	ng/ml	✔	1	ALB 5/20/24
413.0 -> 169.0				*								
PFOS	6.298	0			13C8-PFOS - ISTD	6.281	44606	-	ng/ml	✔	1	ALB 5/20/24
499.0 -> 99.0				*								
PFOSA	7.736	0			13C8-PFOSA - ISTD	7.751	74949	-	ng/ml	✔	1	ALB 5/20/24
497.9 -> 478.0				*								
PFPeA	2.946	0			13C5-PFPeA - ISTD	2.937	417130	-	ng/ml	✔	1	ALB 5/20/24
263.0 -> 69.0				*								
PFPeS	4.576	0			13C3-PFHxS - ISTD	5.234	57768	-	ng/ml	✔	1	ALB 5/20/24
349.0 -> 98.9				*								
PFTeDA	7.803	0			13C2-PFTeDA - ISTD	7.819	104167	-	ng/ml	✔	1	ALB 5/20/24
713.0 -> 168.9				*								
PFTrDA	7.440	0			13C2-PFDoA - ISTD	7.011	118015	-	ng/ml	✔	1	ALB 5/20/24
663.0 -> 168.9				*								
PFUnA	6.694	80	6.23		13C7-PFUnA - ISTD	6.586	0	-	ng/ml			
563.0 -> 269.1				*								
TDCA	6.282	120	21.93					-	ng/ml			
499.0 -> 99.0			24.60	***46.4**								
13C2-8:2FTS	5.934	24656	4196.75		18O2-PFHxS	5.233	54422	6.8924	ng/ml			
529.0 -> 509.0			229376.08	272.3								
13C2-4:2FTS	3.605	45301	10800.23		18O2-PFHxS	5.233	54422	6.9558	ng/ml			
329.0 -> 309.0			22442.91	246.9								
13C2-6:2FTS	4.933	30457	7720.76		18O2-PFHxS	5.233	54422	6.9207	ng/ml			

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
429.0 -> 409.0			34782.65	345.9								
13C5-PFHxA	3.836	230391	28956.53		13C2-PFHxA	3.837	217799	2.5670	ng/ml			
318.0 -> 120.0			583.18	1.9								
13C6-PFDA	6.140	142910	8623.71		13C2-PFDA	6.140	131693	1.3753	ng/ml			
13C7-PFUnA	6.586	125684	21223.09		13C2-PFDA	6.140	131693	1.4941	ng/ml			
13C8-PFOA	5.148	254376	31143.62		13C4-PFOA	5.148	34850	2.6624	ng/ml			
13C8-PFOS	6.281	44606	7239.04		13C4-PFOS	6.281	46030	2.6955	ng/ml			
507.0 -> 99.0			3675.66	50.9								
13C8-PFOSA	7.751	74949	81780.16		13C4-PFOS	6.281	46030	2.5752	ng/ml			
13C9-PFNA	5.664	154634	9002.76		13C5-PFNA	5.664	168520	1.3456	ng/ml			
13C5-PFPeA	2.937	417130	11390.07		13C2-PFHxA	3.837	217799	5.1859	ng/ml			
13C2-PFDoA	7.011	118015	11725.86		13C2-PFDA	6.140	131693	1.3593	ng/ml			
13C4-PFHpA	4.549	281240	43677.08		13C2-PFHxA	3.837	217799	2.8014	ng/ml			
13C4-PFBA	1.732	674860	127751.10		13C3-PFBA	1.735	297738	10.4398	ng/ml			
13C3-PFHxS	5.234	57768	7978.43		18O2-PFHxS	5.233	54422	2.5992	ng/ml			
402.0 -> 99.0			10623.32	52.0								
13C3-PFBS	3.757	84249	15742.19		18O2-PFHxS	5.233	54422	2.8643	ng/ml			
301.9 -> 98.9			4040.49	34.9								
13C3-HFPODA	4.103	266461	22362.70		13C2-PFHxA	3.837	217799	10.6141	ng/ml			
287.0 -> 185.0			15463.61	44.3								
13C2-PFTeDA	7.819	104167	12440.28		13C2-PFDA	6.140	131693	1.3934	ng/ml			
D9-NEtFOSE	9.394	293840	51751.82		13C4-PFOS	6.281	46030	24.2781	ng/ml			
D3-NMeFOSA	9.193	22991	10274.95		13C4-PFOS	6.281	46030	2.4629	ng/ml			
D3-NMeFOSAA	6.211	185930	63872.98		13C4-PFOS	6.281	46030	6.2353	ng/ml			
D5-NEtFOSA	9.538	24539	11902.30		13C4-PFOS	6.281	46030	2.5200	ng/ml			
D5-NEtFOSAA	6.406	97224	10056.85		13C4-PFOS	6.281	46030	6.4435	ng/ml			
D7-NMeFOSE	9.049	265905	117450.00		13C4-PFOS	6.281	46030	23.5087	ng/ml			

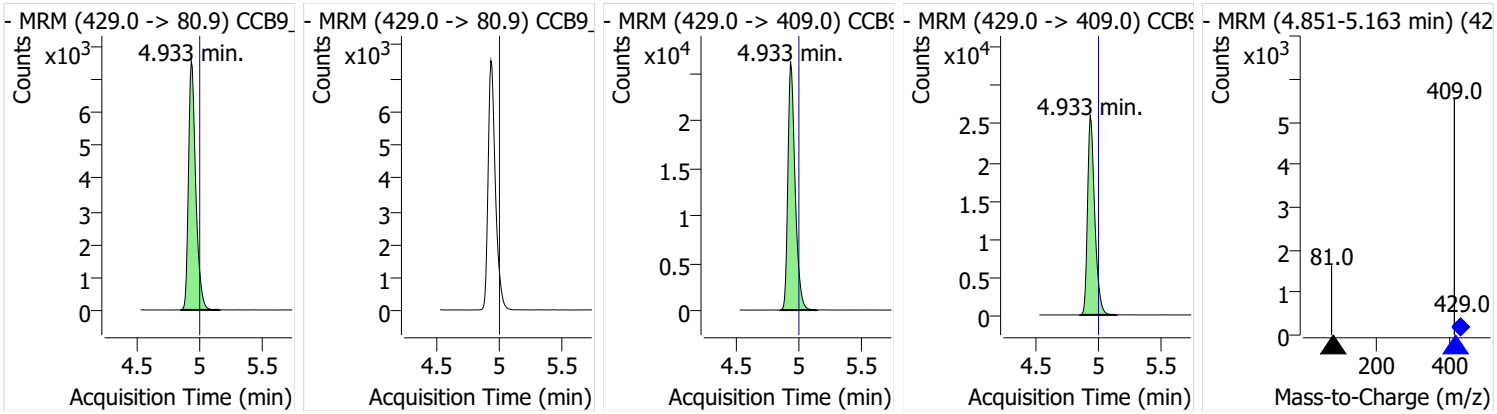
11Cl-PF3OUdS



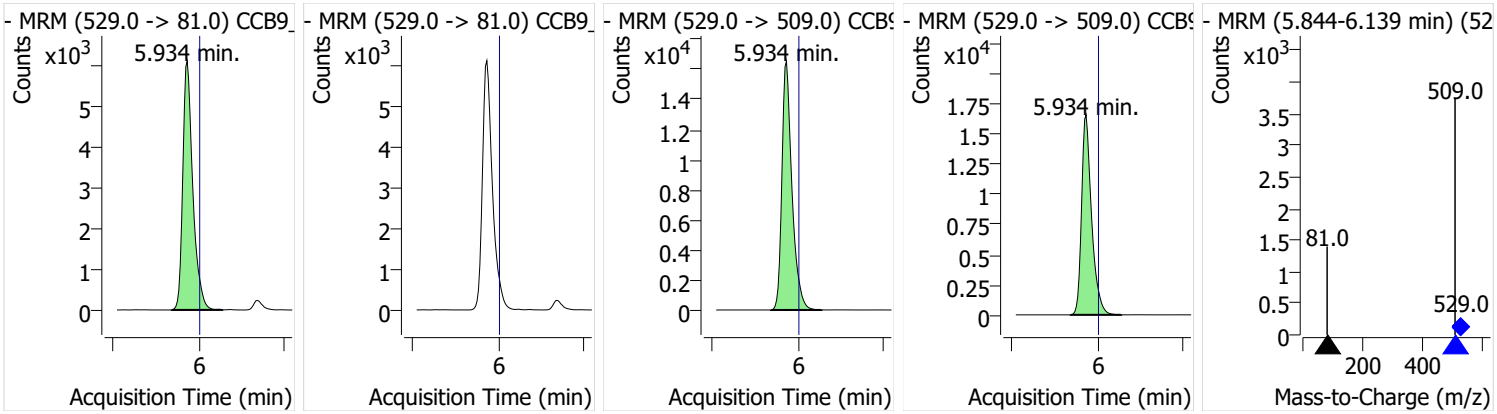
13C2-4:2FTS - ISTD



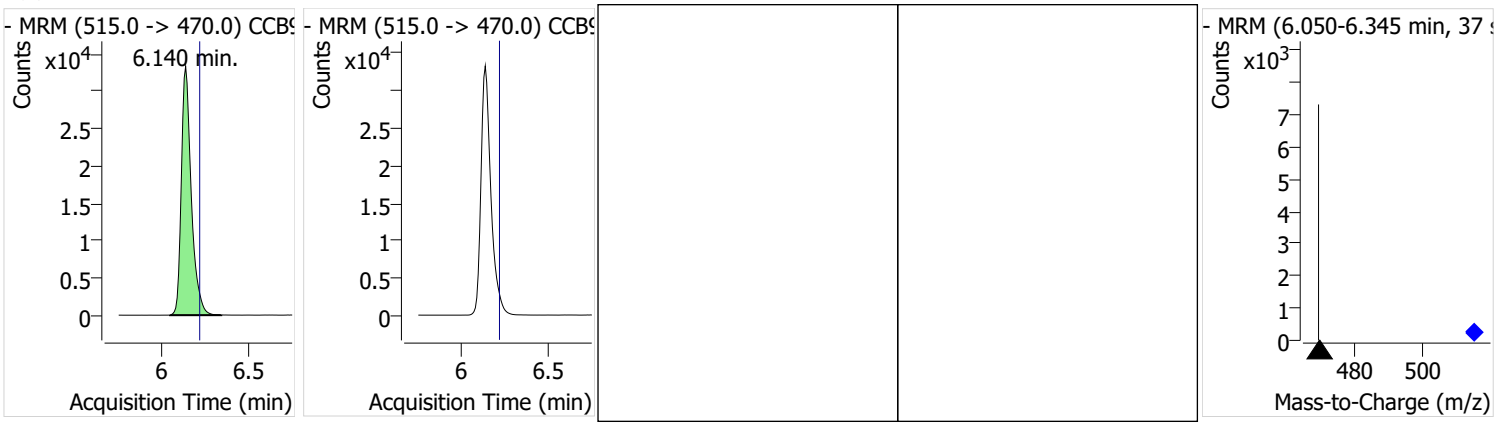
13C2-6:2FTS - ISTD



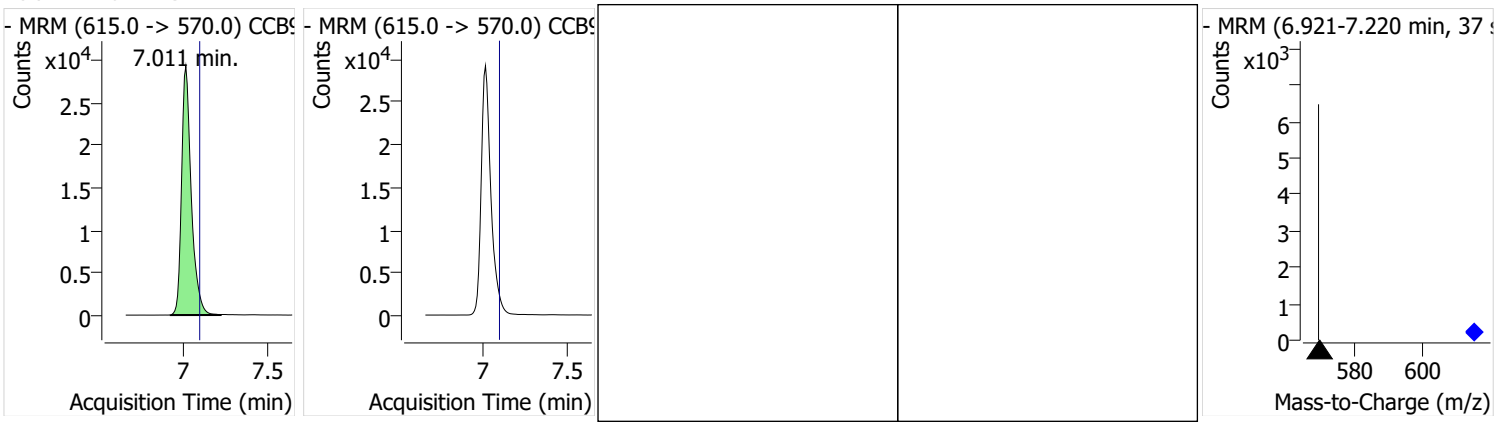
13C2-8:2FTS - ISTD



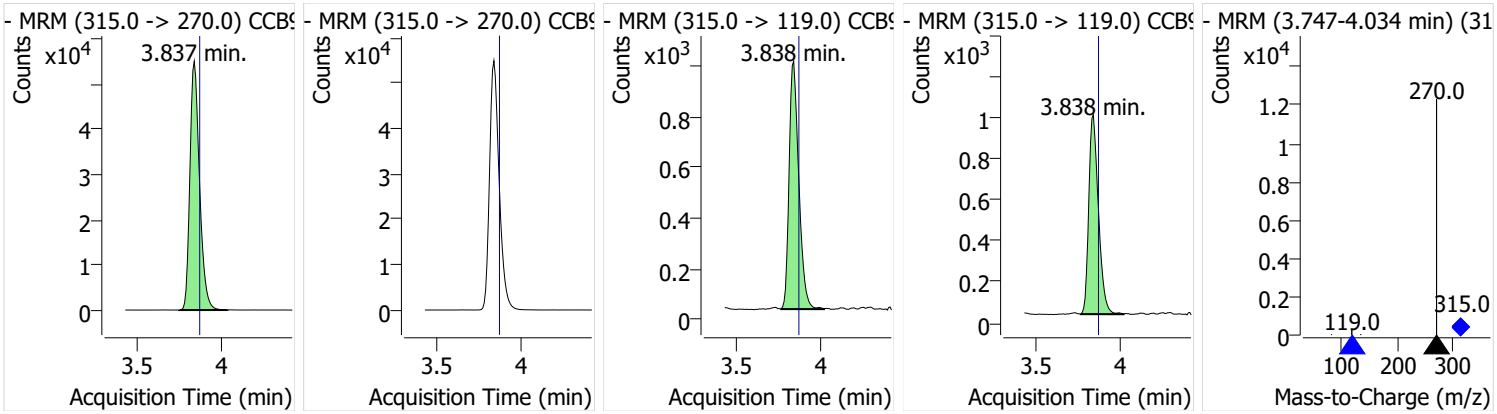
13C2-PFDA



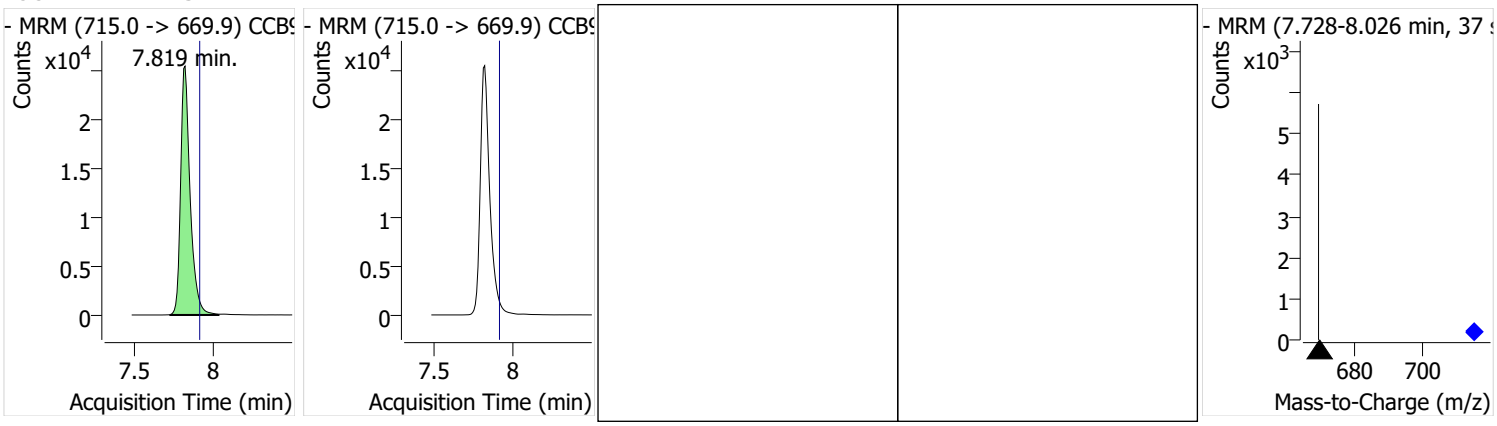
13C2-PFDoA - ISTD



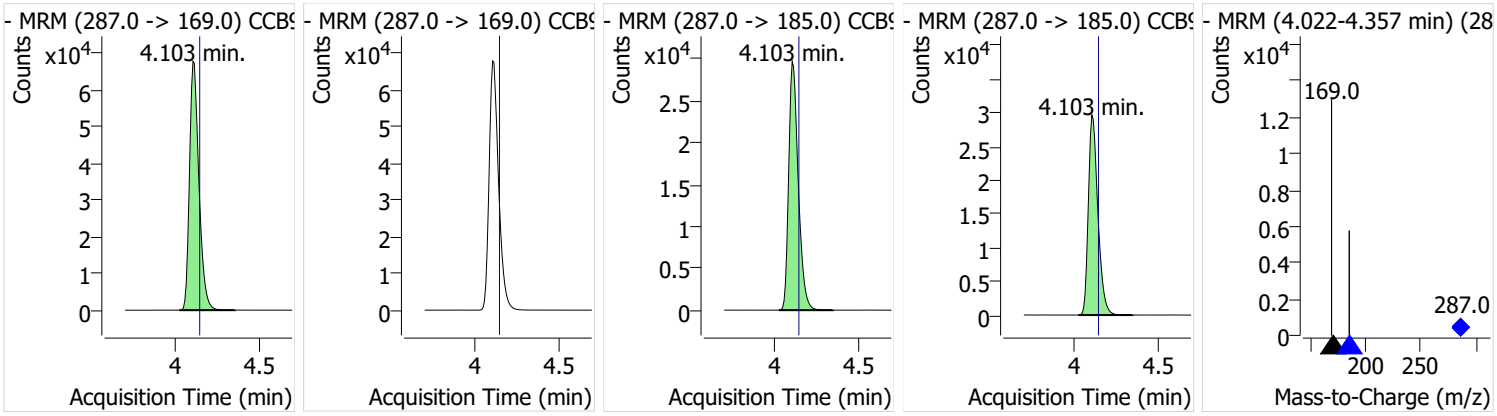
13C2-PFHxA



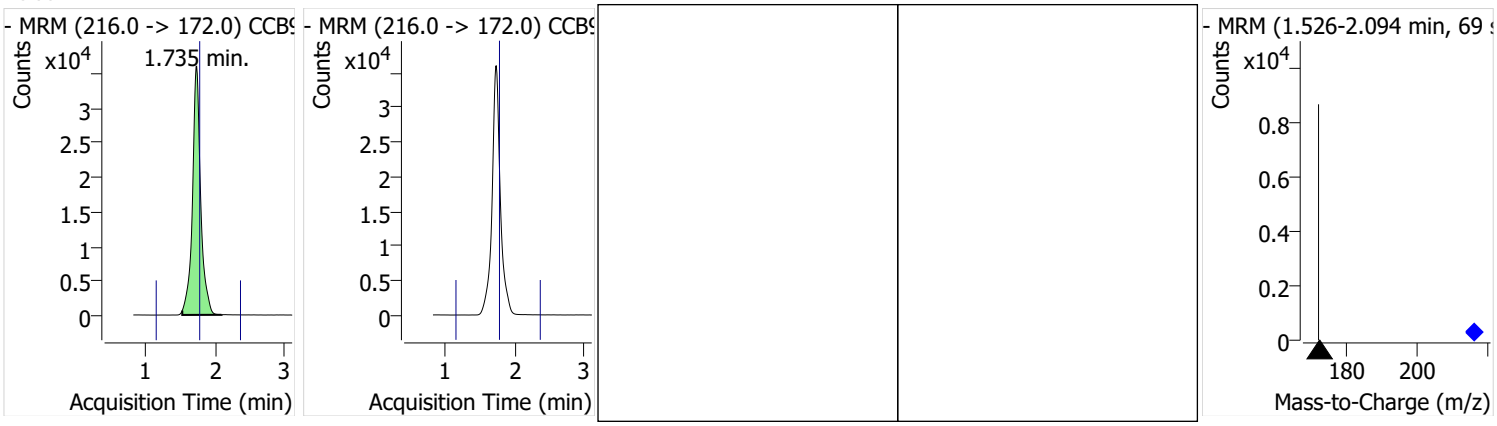
13C2-PFTeDA - ISTD



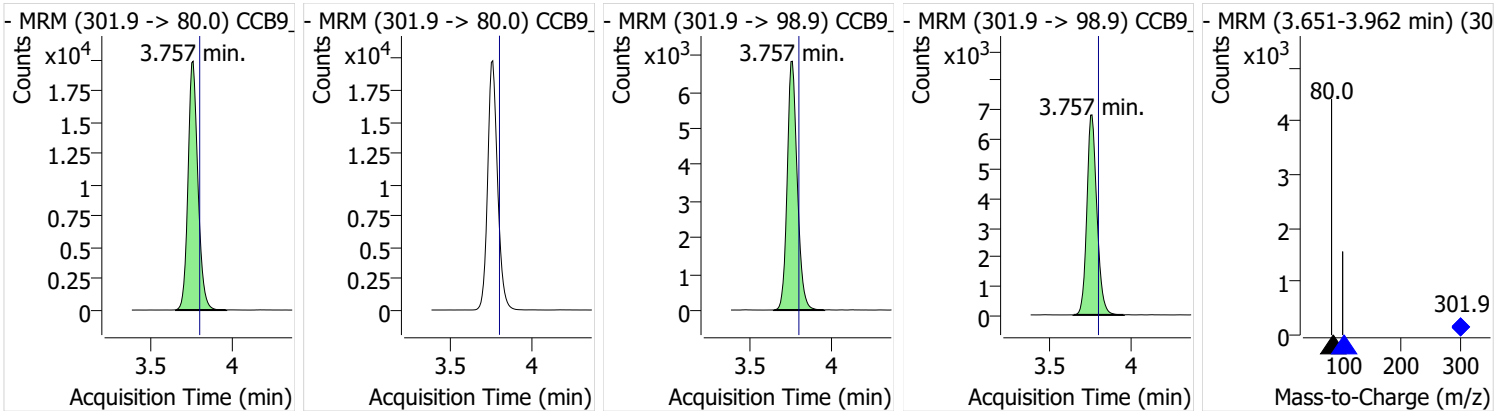
13C3-HFPODA - ISTD



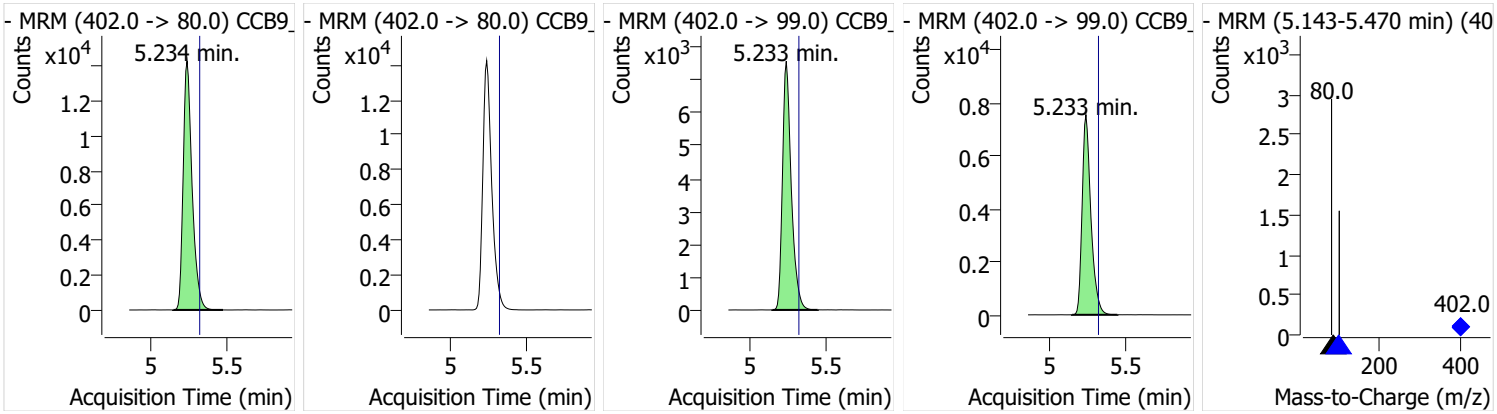
13C3-PFBA



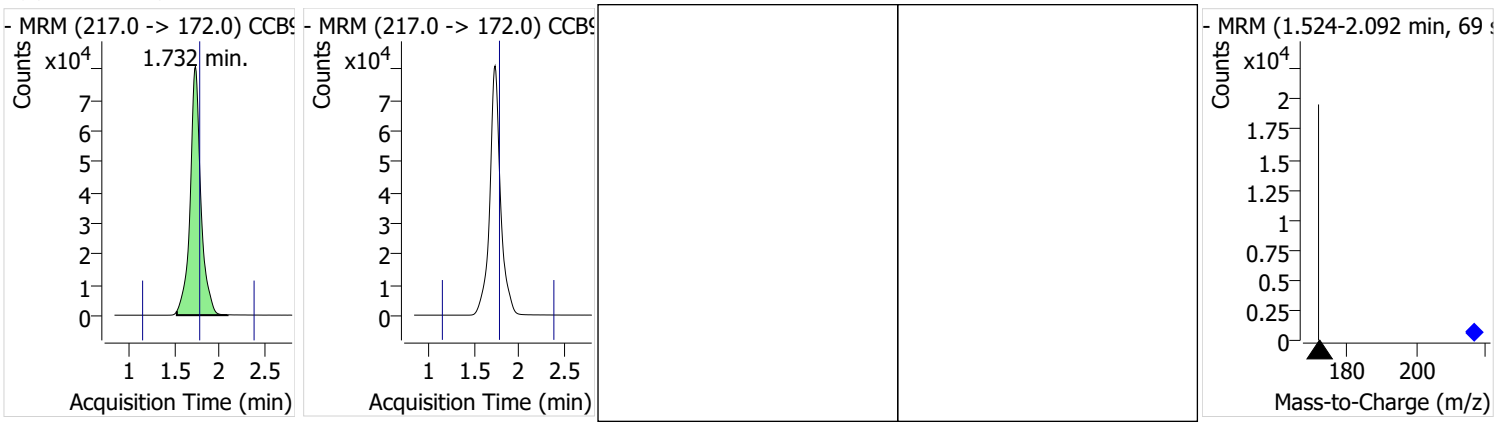
13C3-PFBS - ISTD



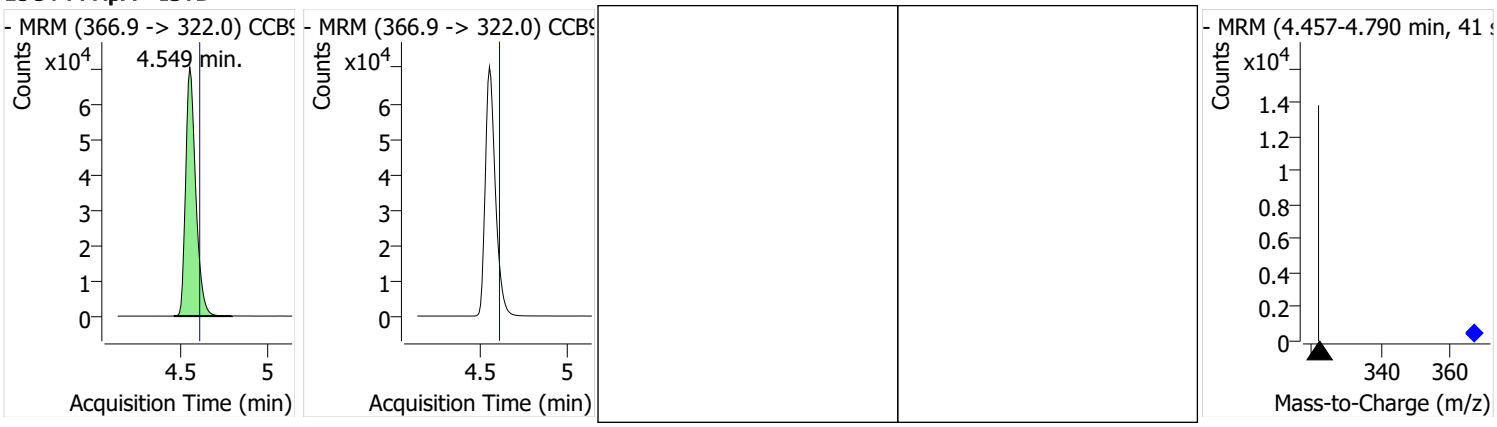
13C3-PFHxS - ISTD



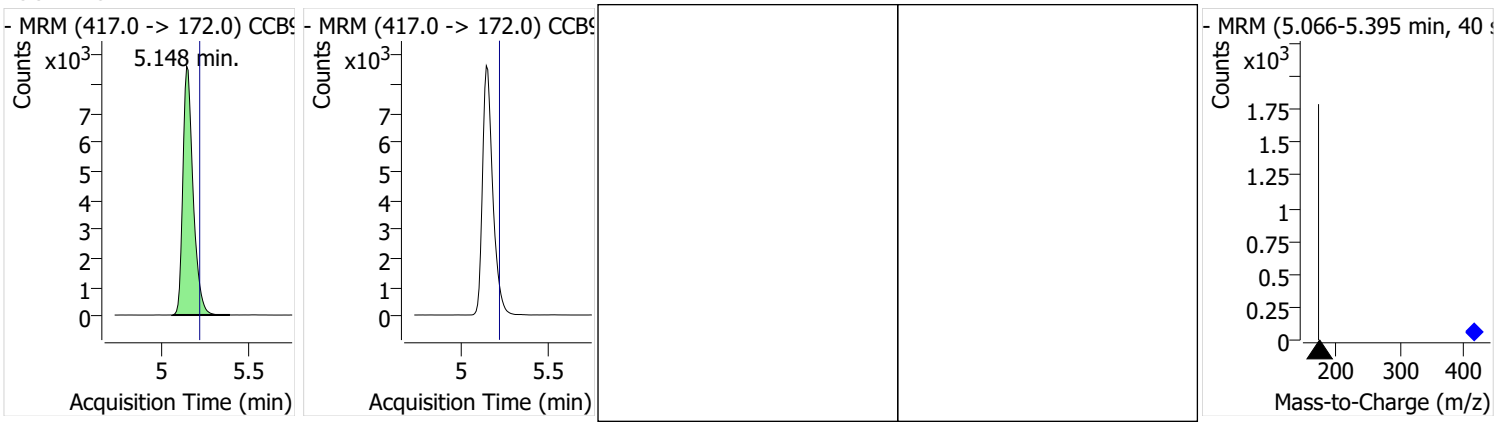
13C4-PFBA - ISTD



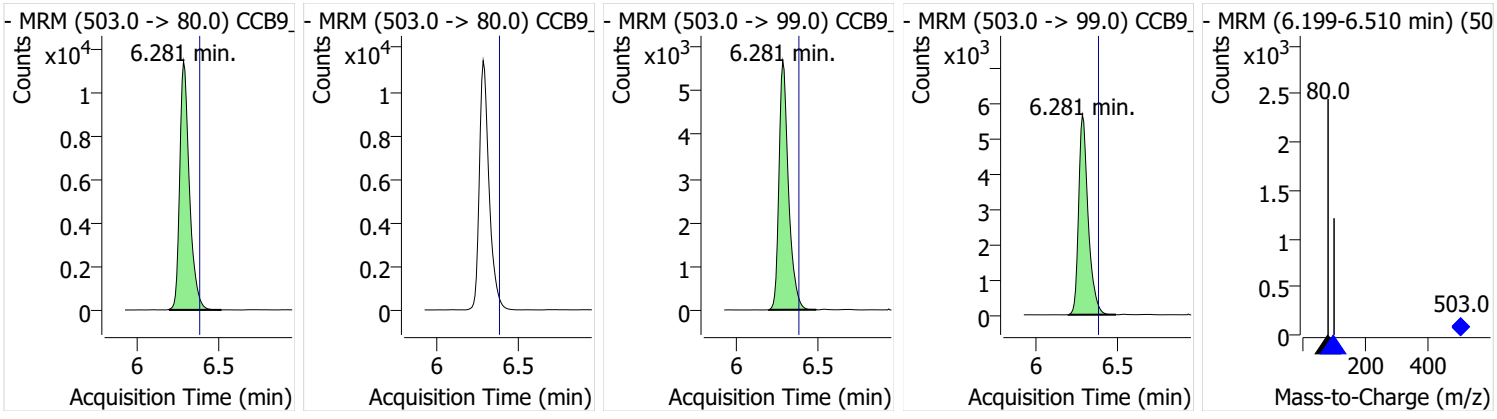
13C4-PFHpA - ISTD



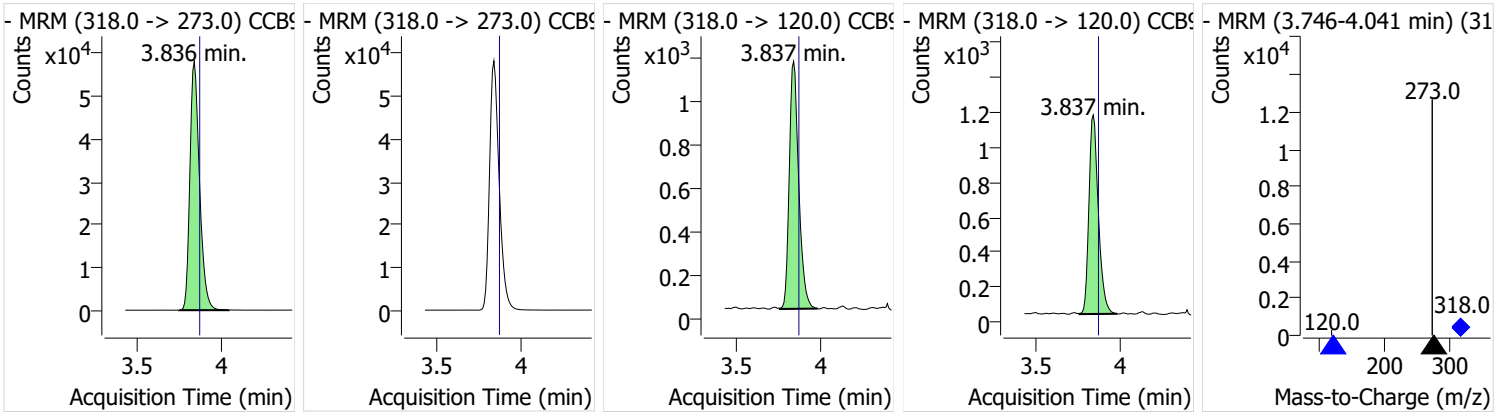
13C4-PFOA



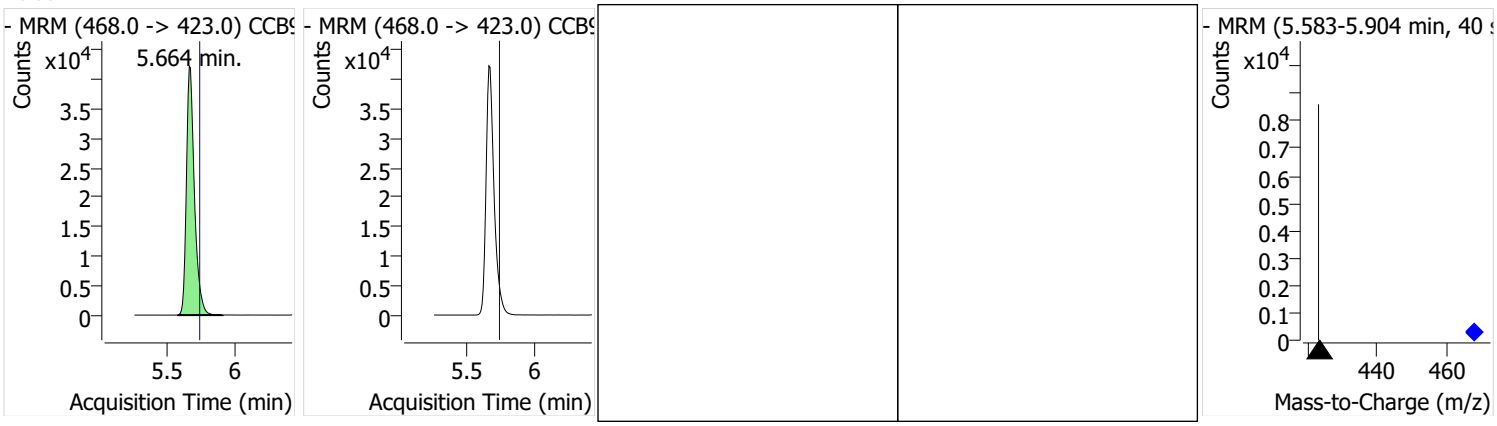
13C4-PFOS



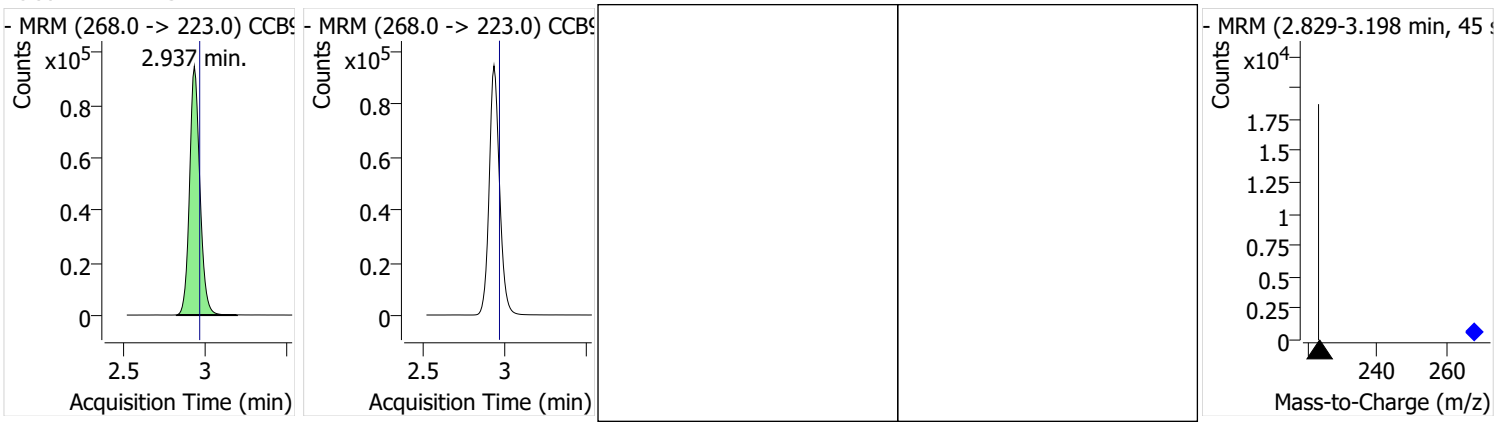
13C5-PFHxA - ISTD



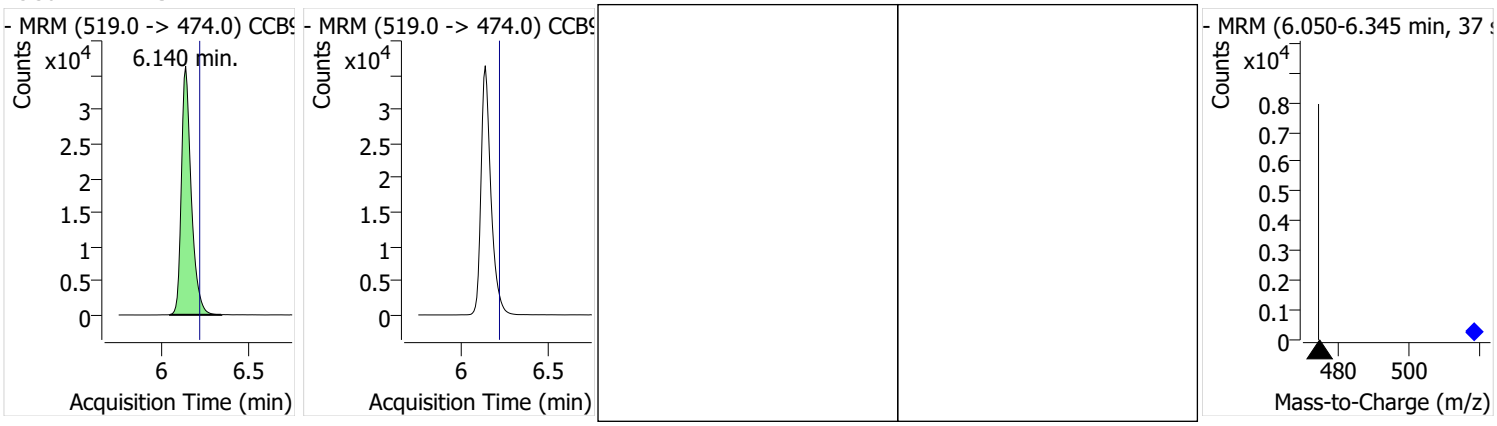
13C5-PFNA



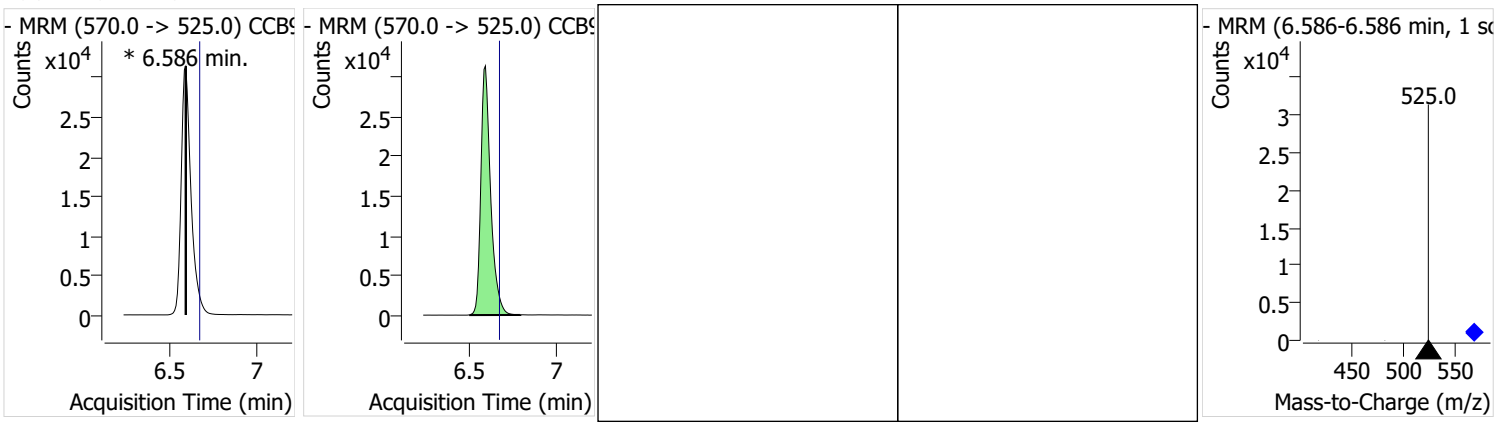
13C5-PFPeA - ISTD



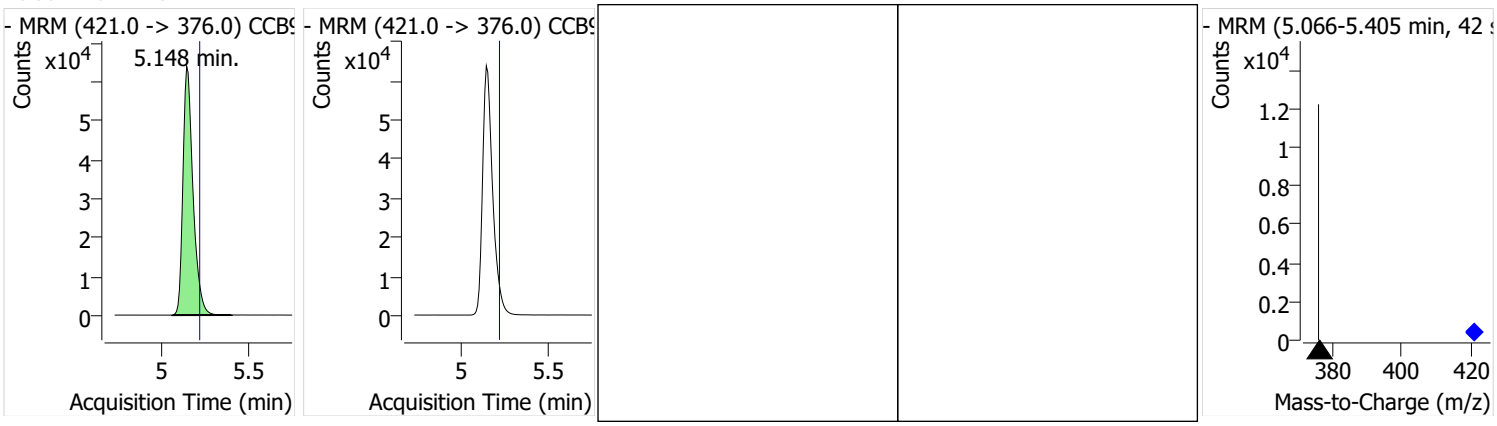
13C6-PFDA - ISTD



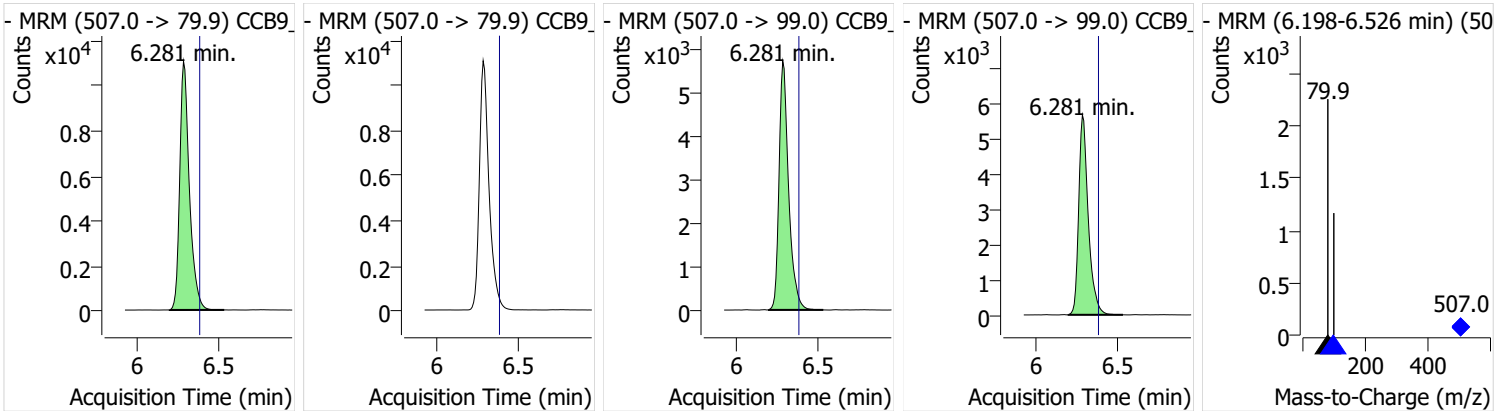
13C7-PFUnA - ISTD



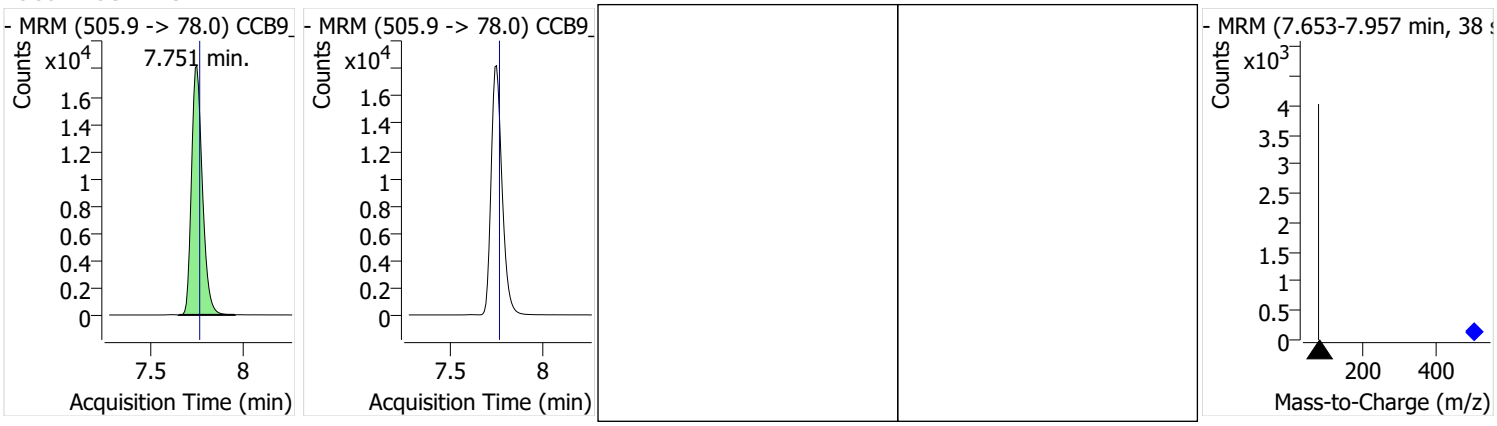
13C8-PFOA - ISTD



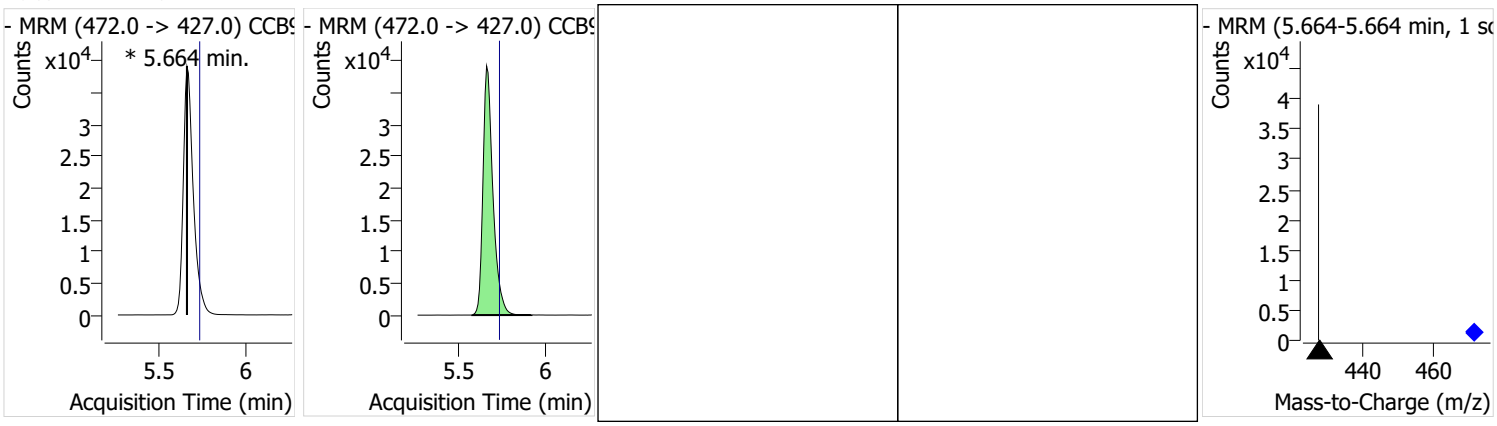
13C8-PFOS - ISTD



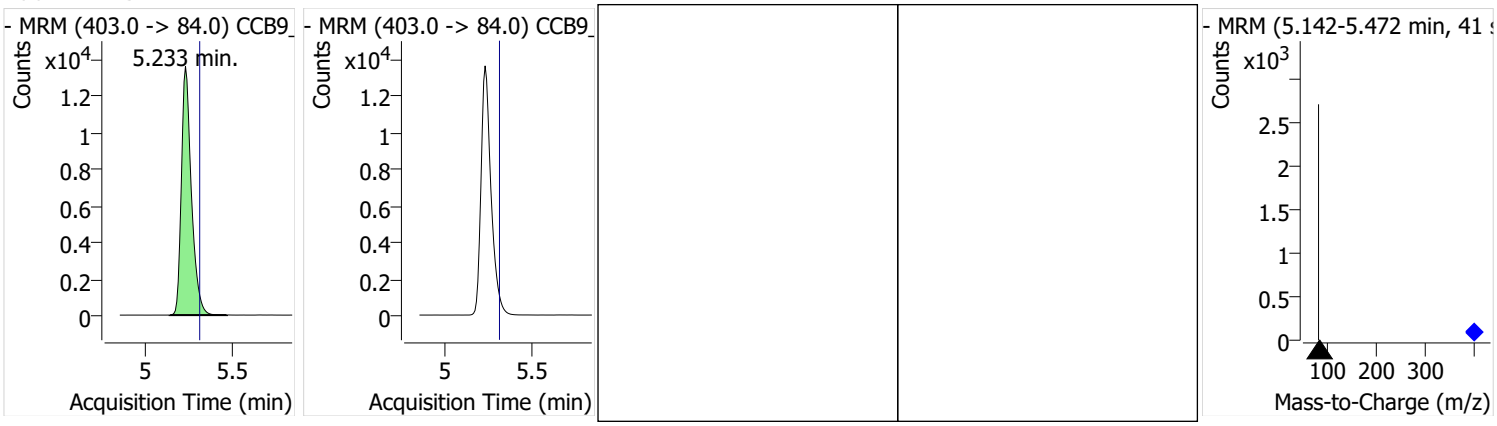
13C8-PFOSA - ISTD



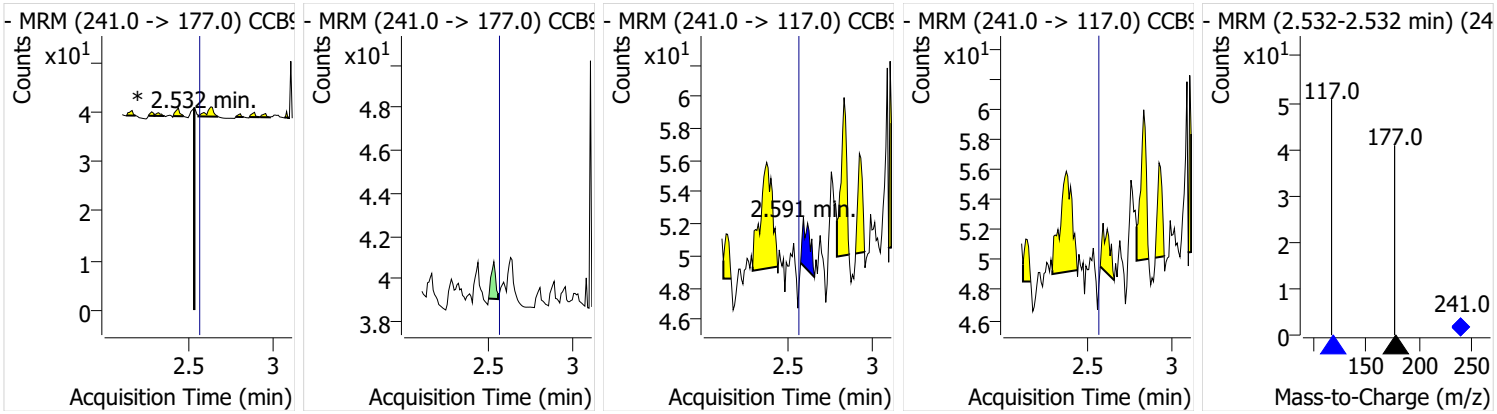
13C9-PFNA - ISTD



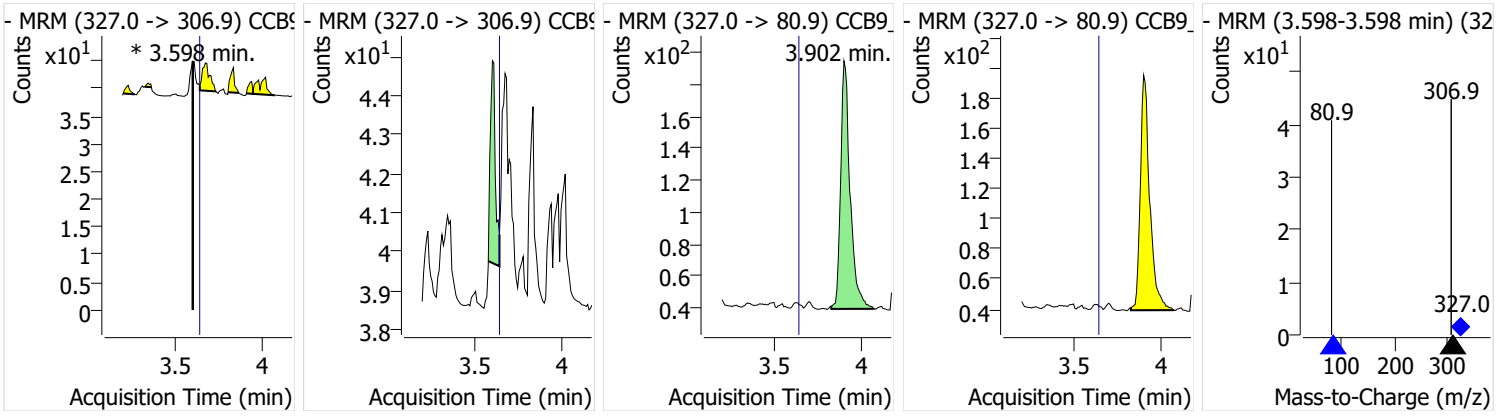
18O2-PFHxS



3:3FTCA



4:2FTS



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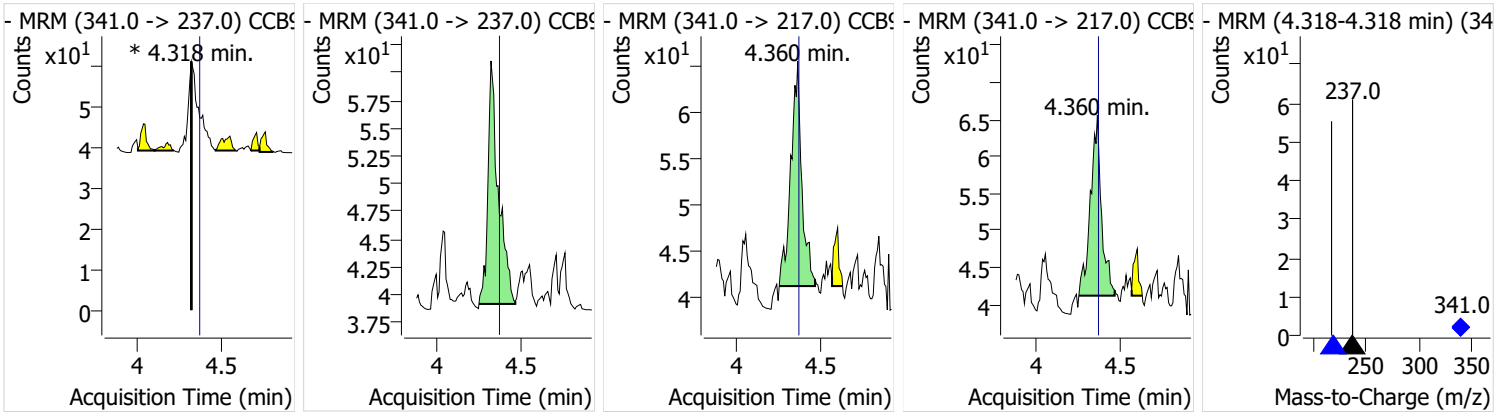
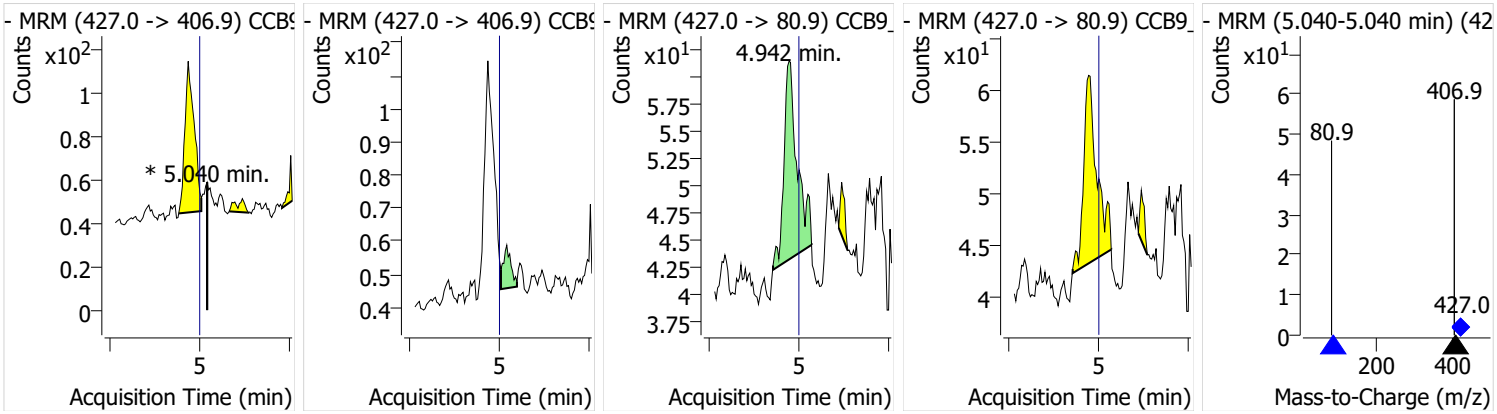


6:2FTS



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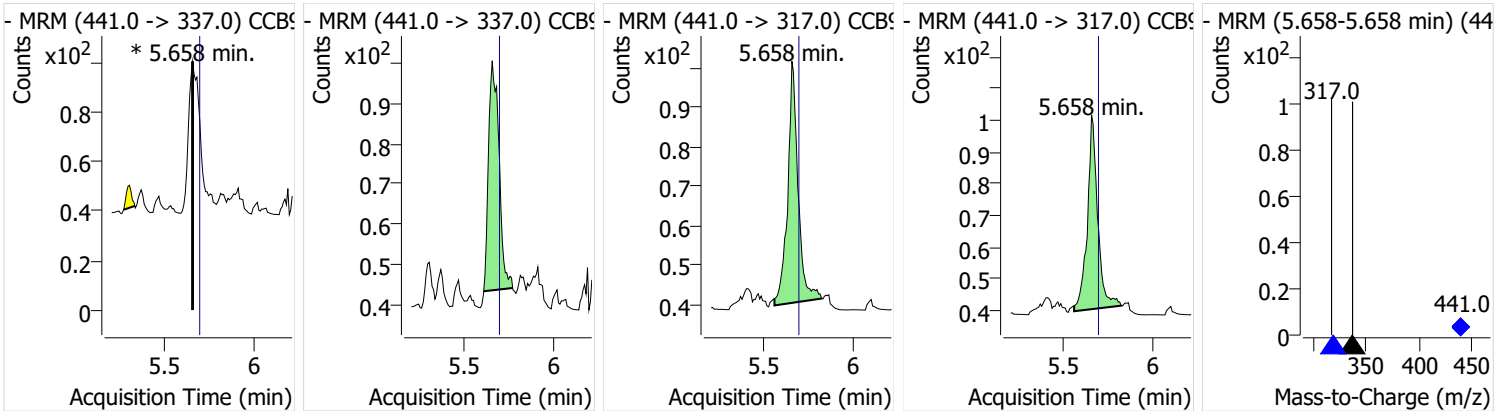
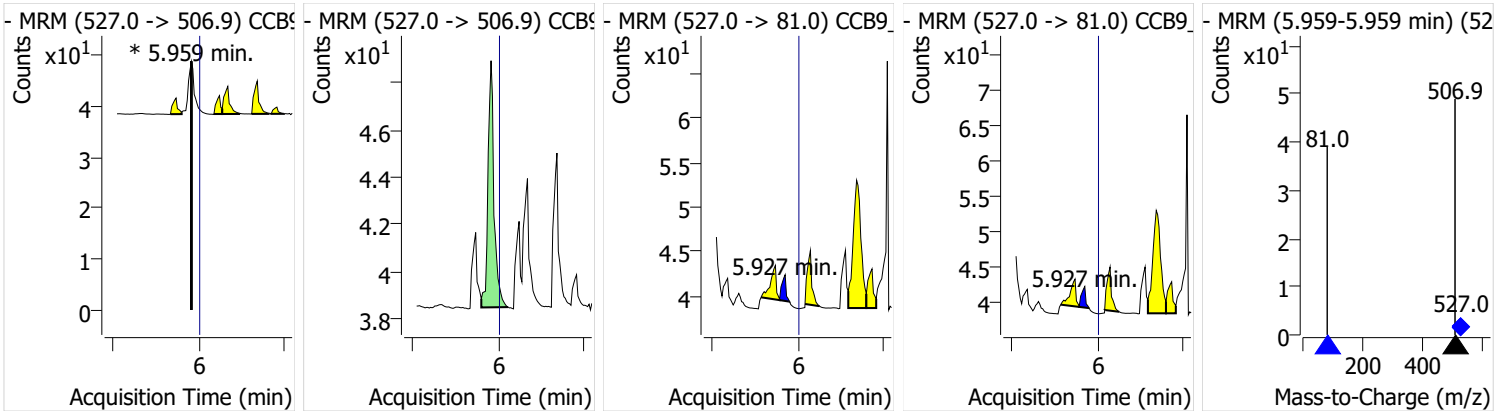
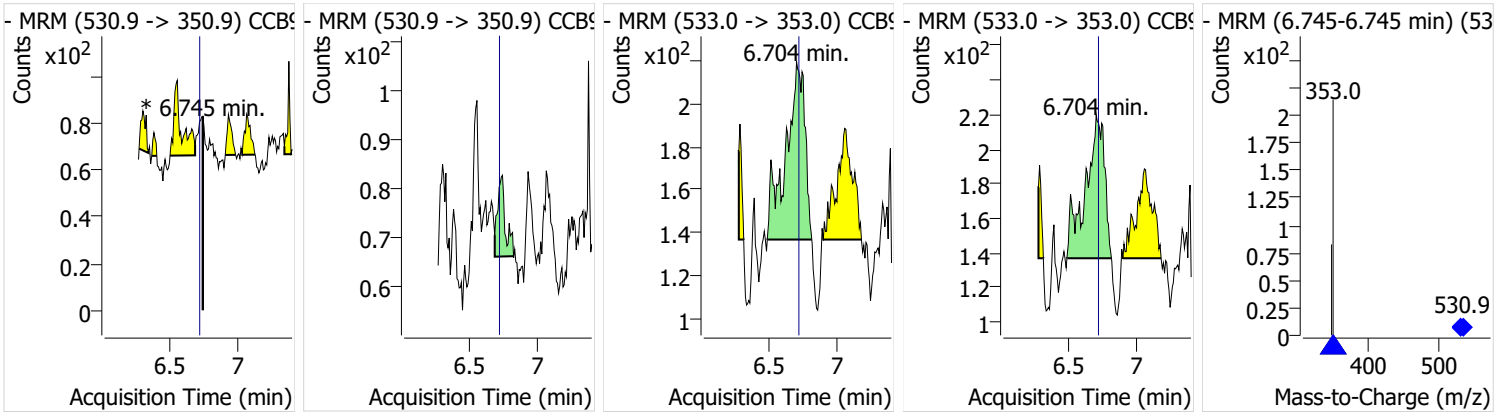


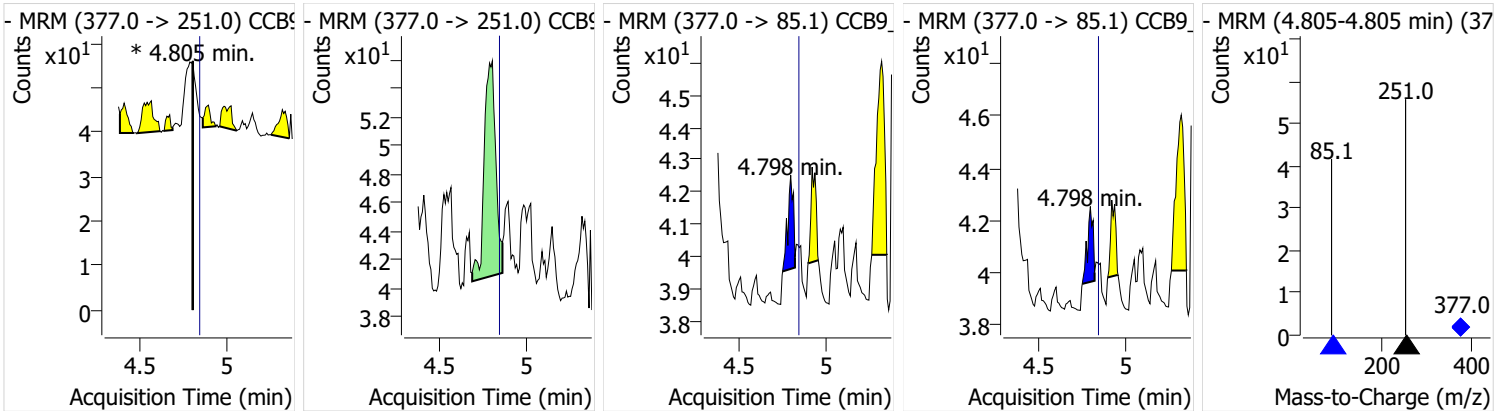
8:2FTS



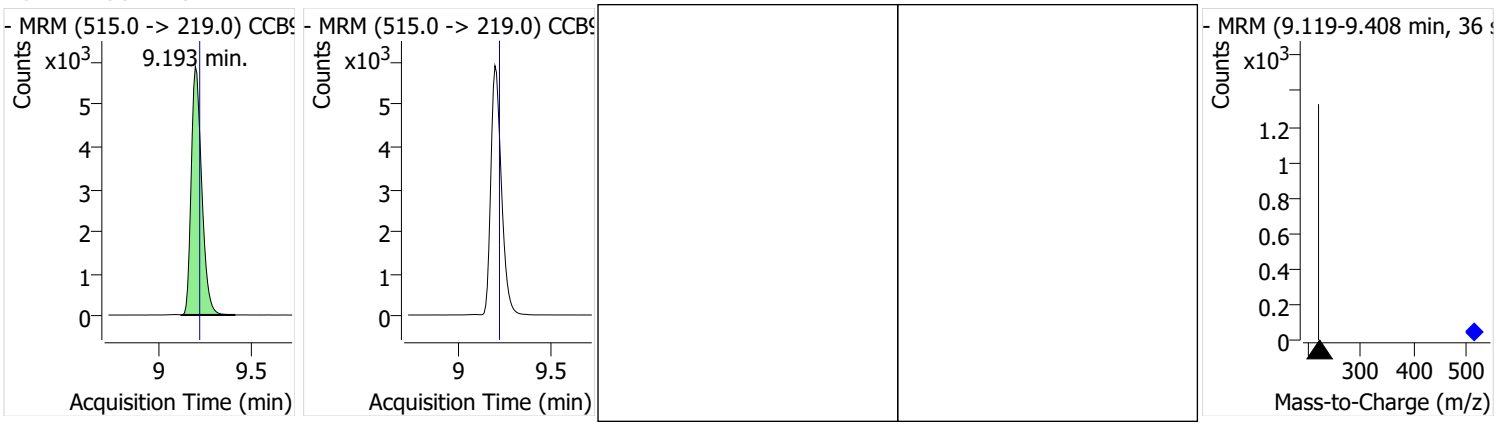
9Cl-PF3ONS



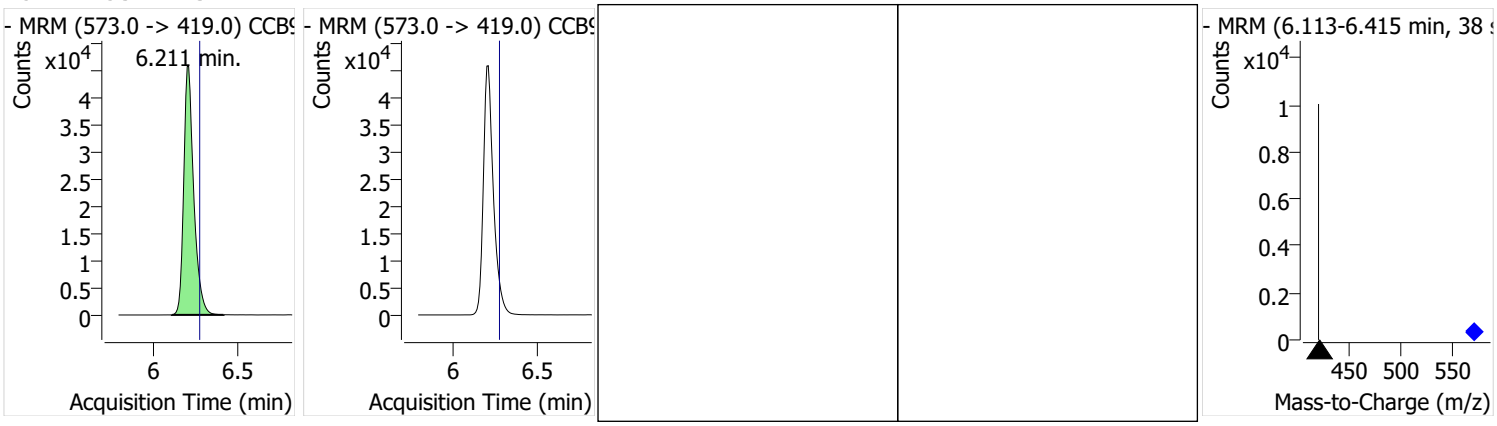
ADONA



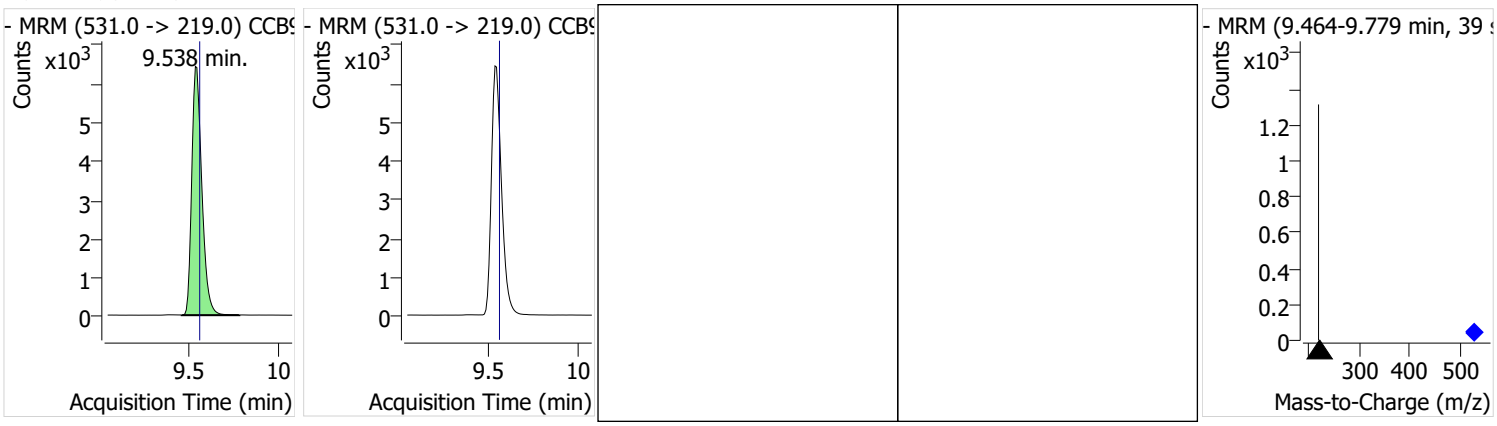
D3-NMeFOSA - ISTD



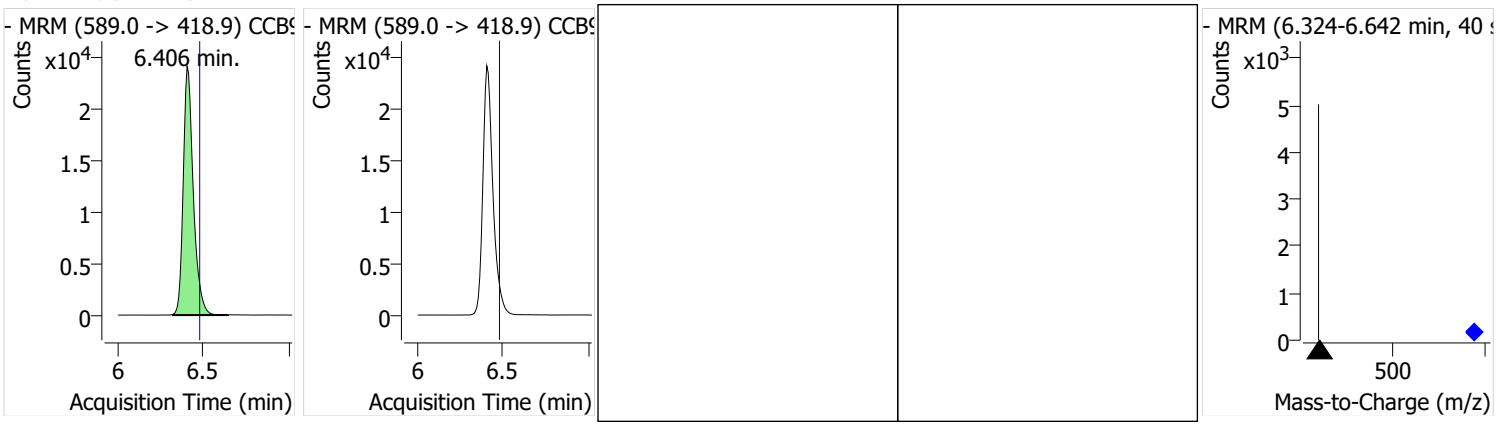
D3-NMeFOSAA - ISTD



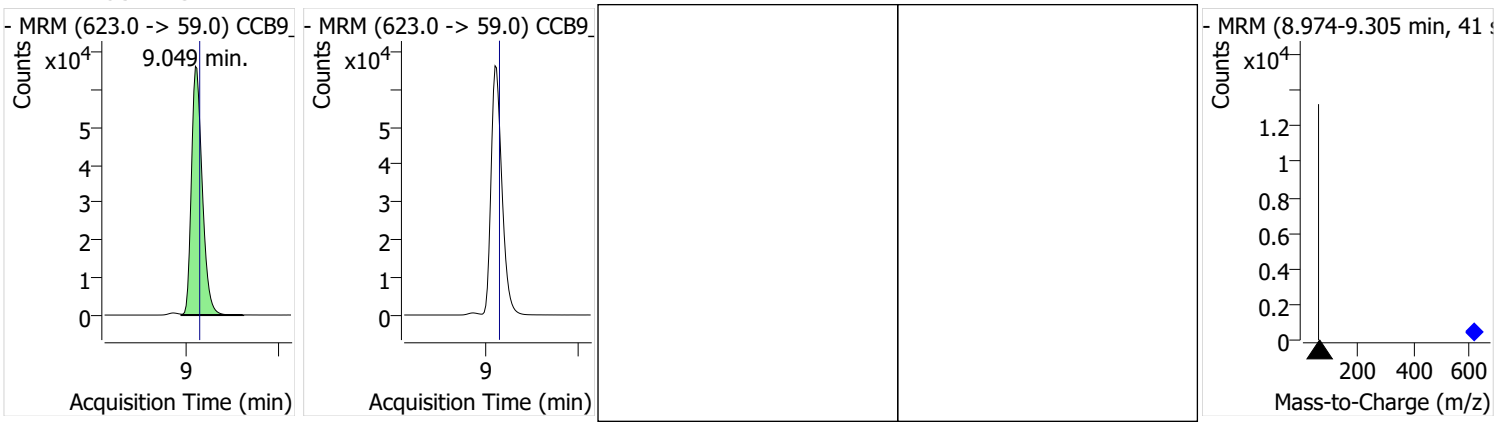
D5-NEtFOSA - ISTD



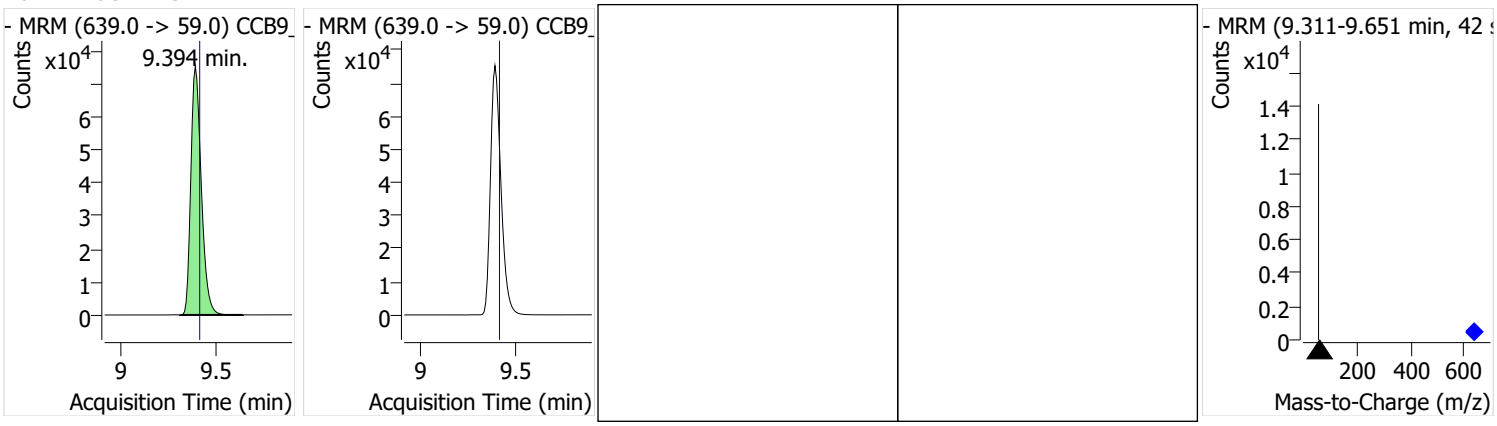
D5-NEtFOSAA - ISTD



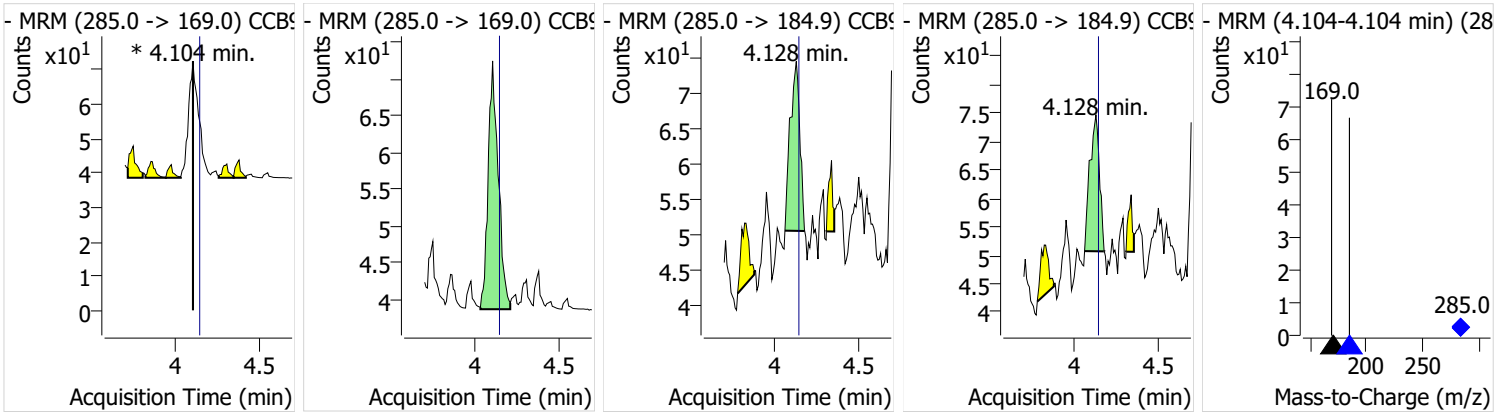
D7-NMeFOSE - ISTD



D9-NEtFOSE - ISTD



HFPO-DA



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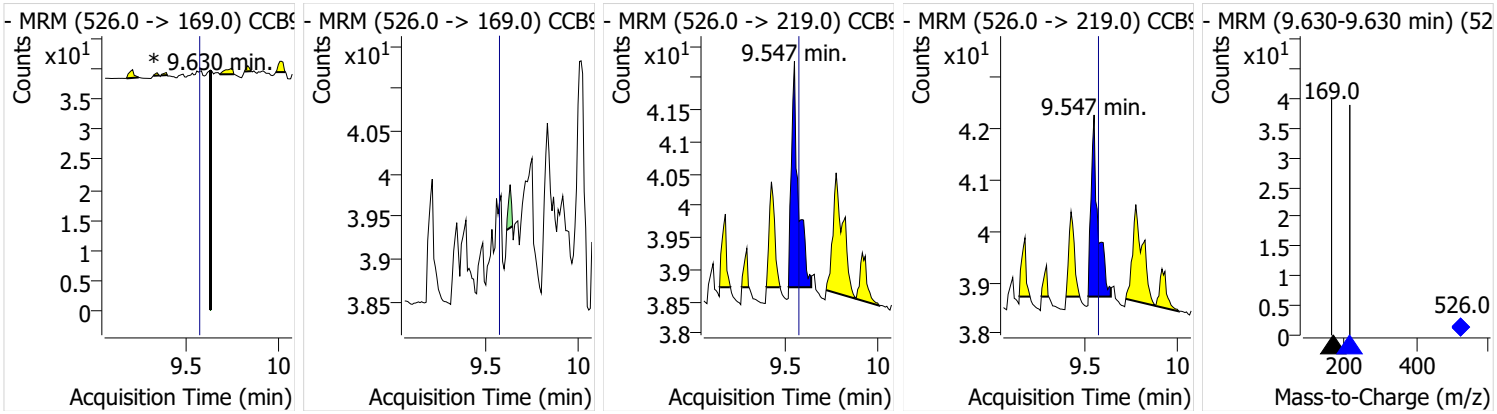

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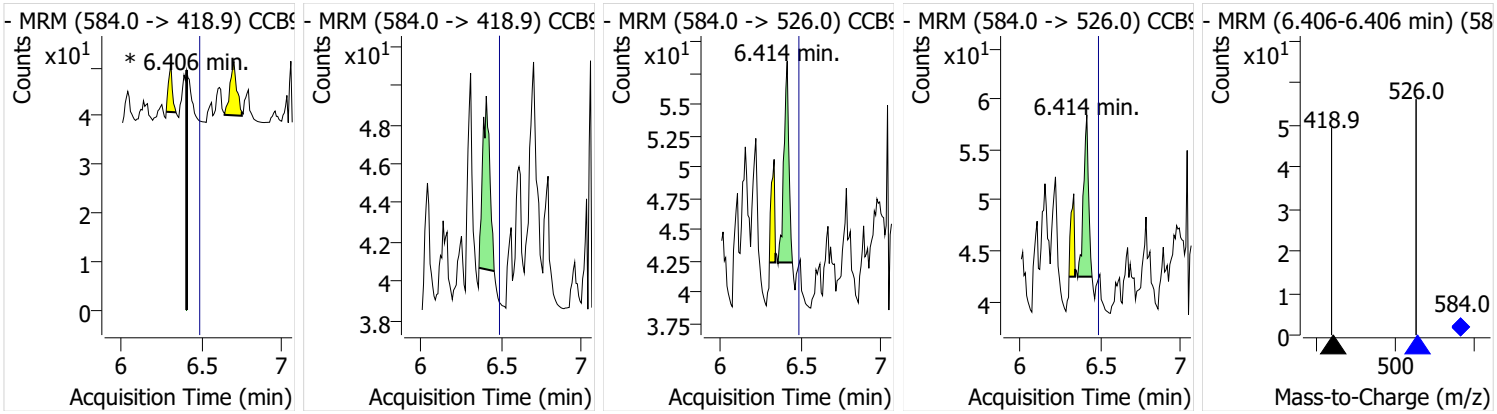

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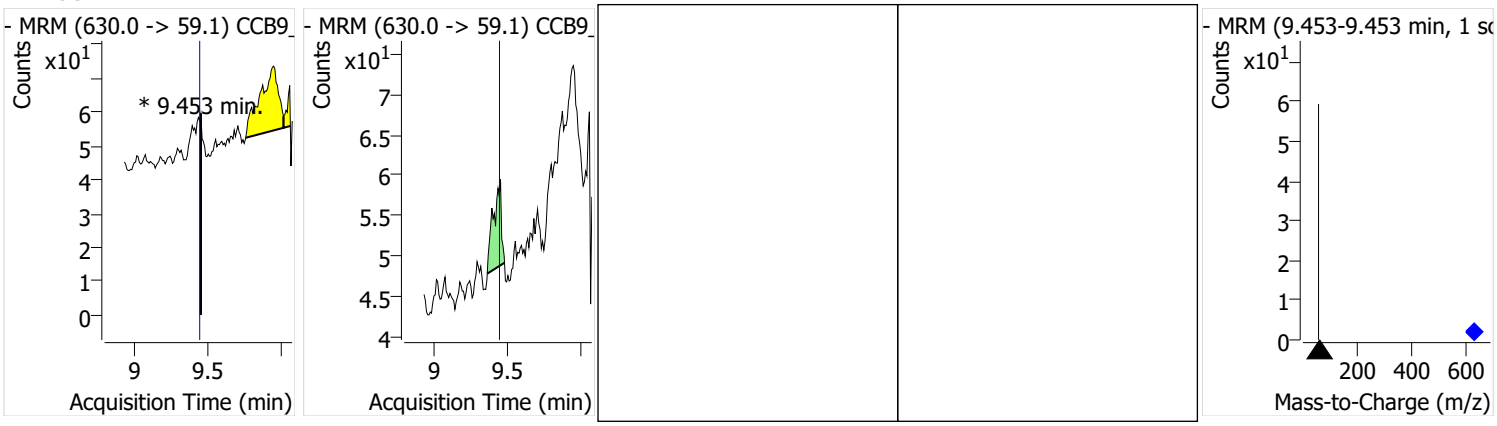

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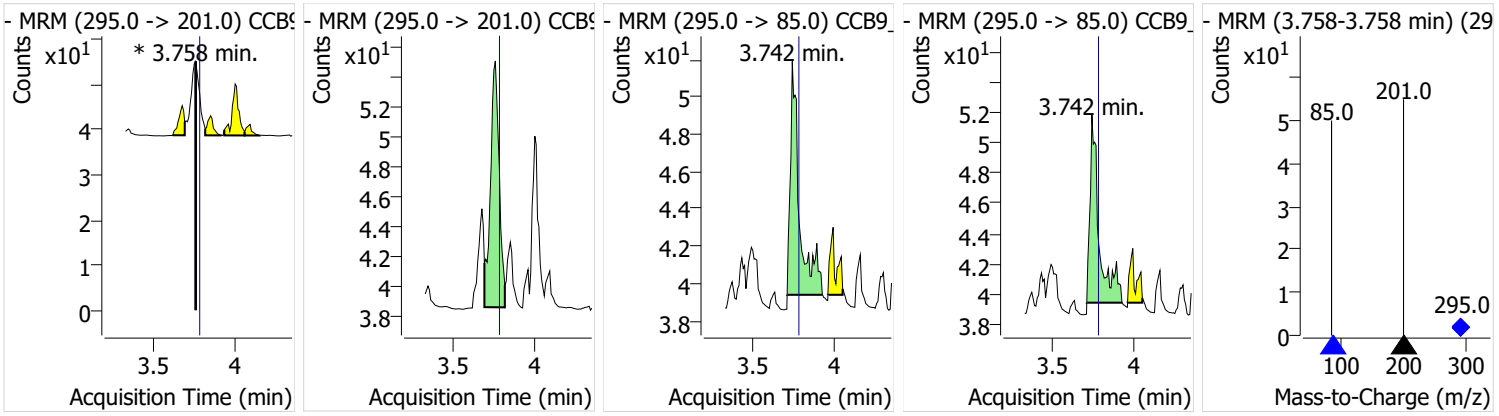

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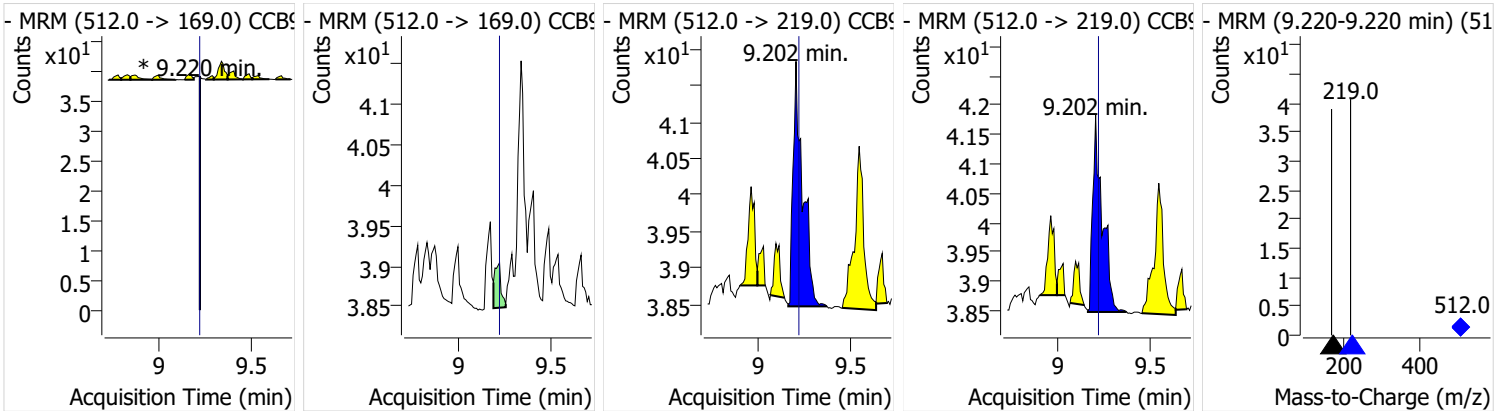

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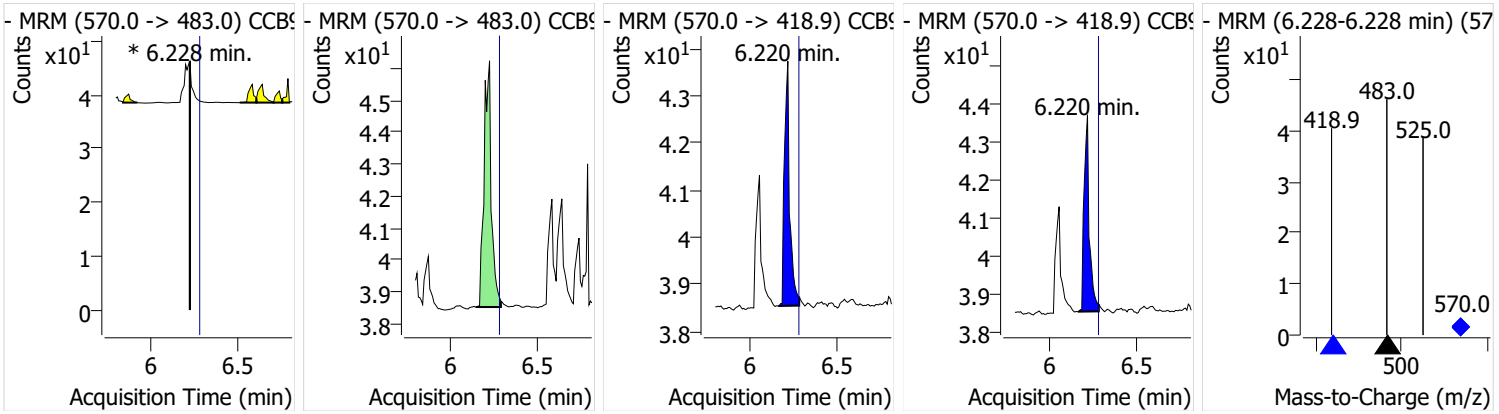

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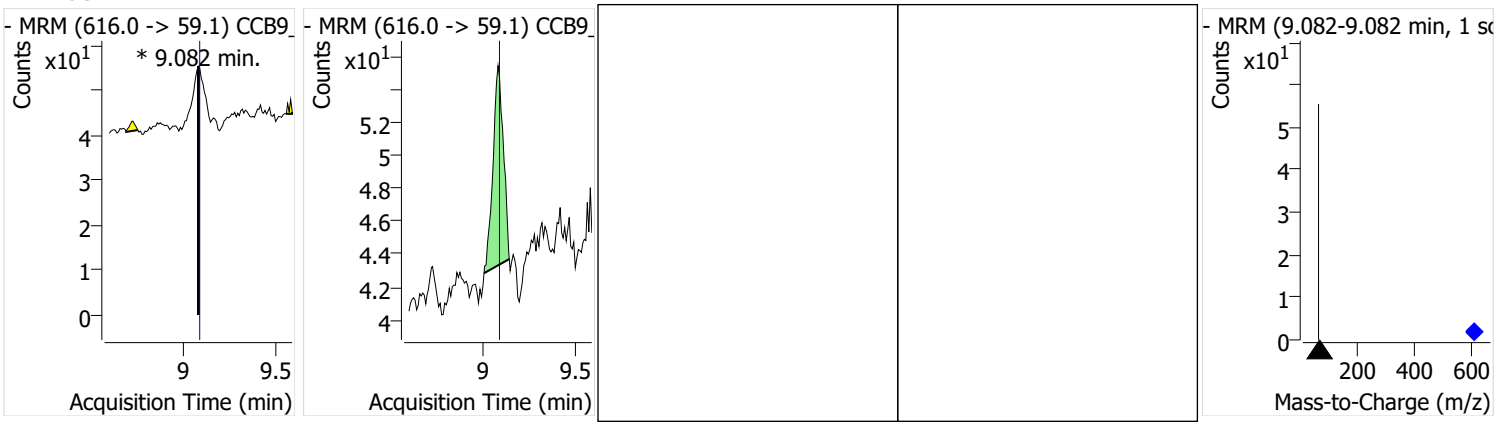

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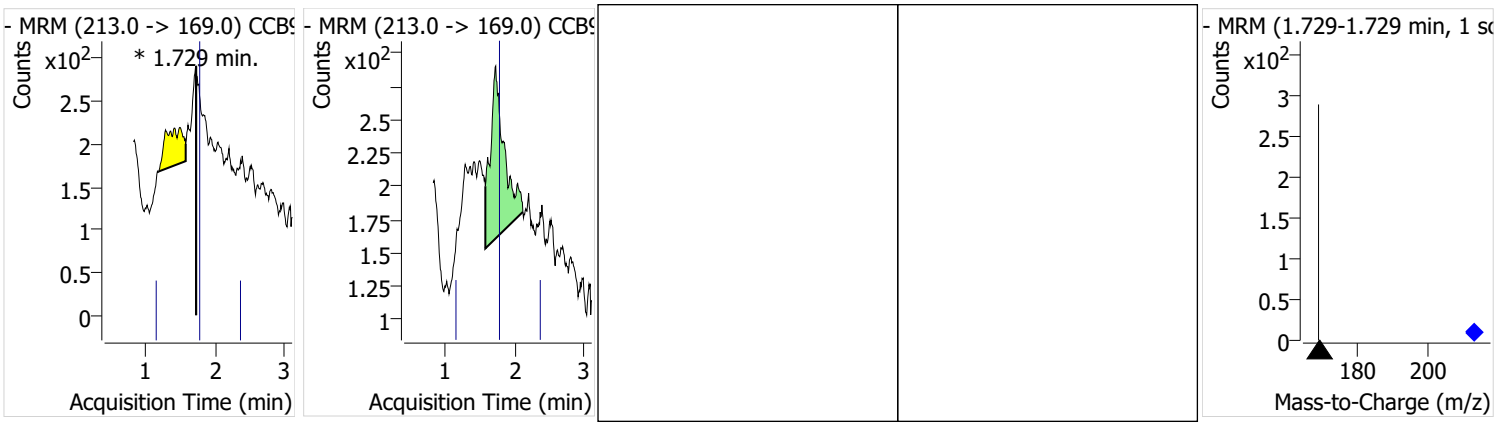

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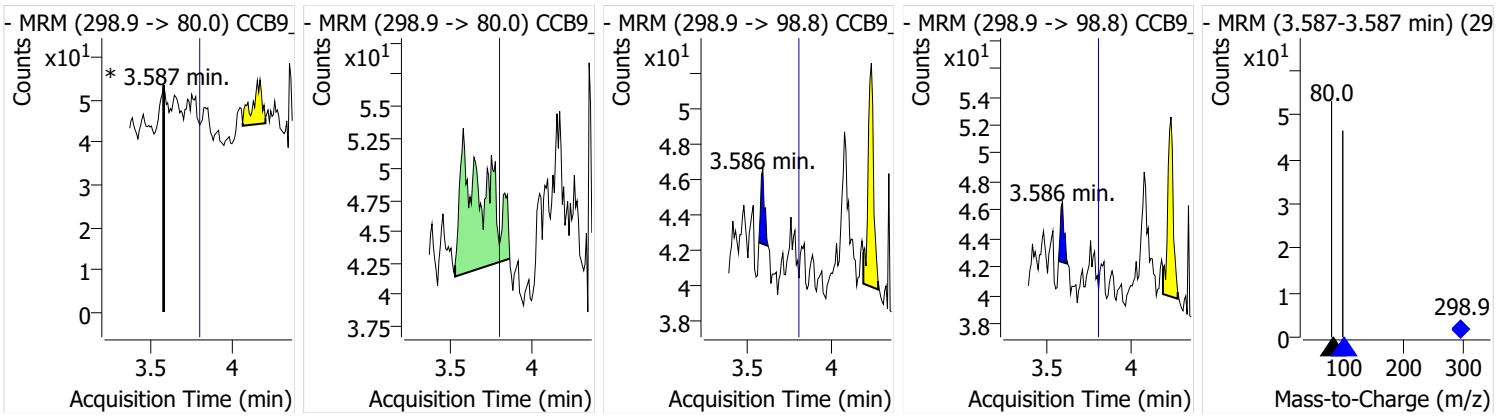

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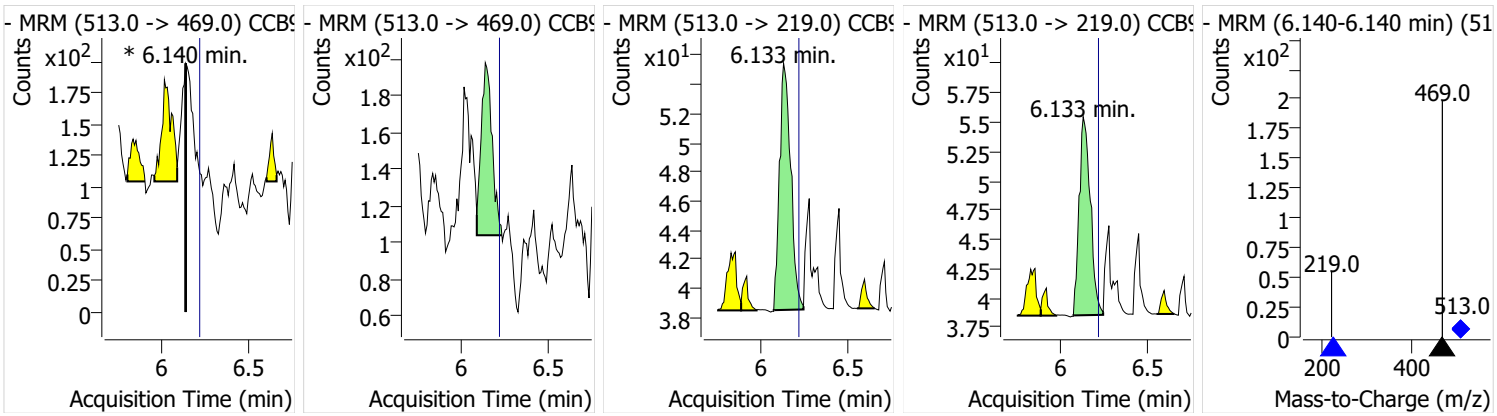

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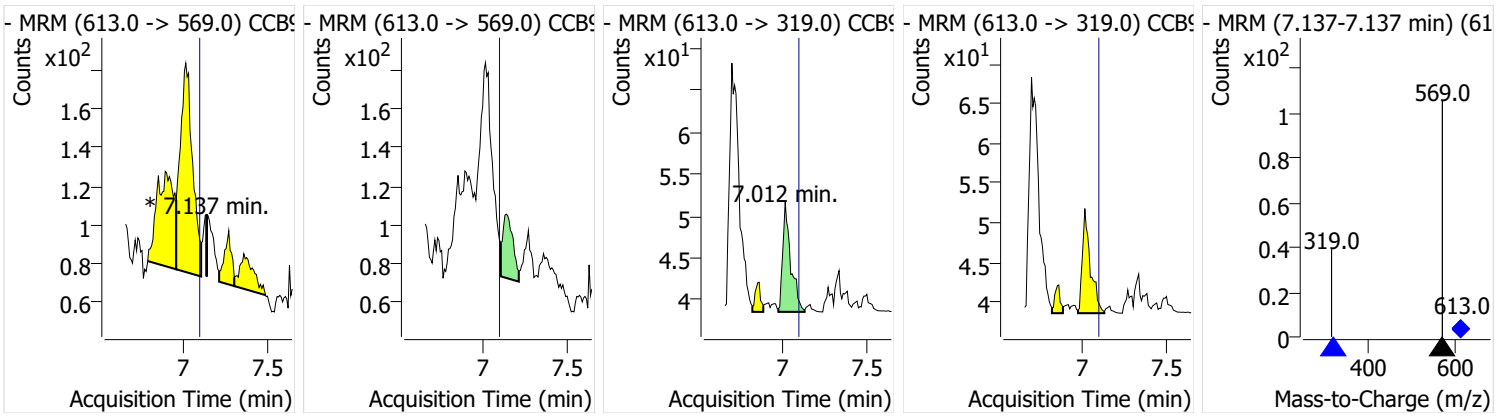

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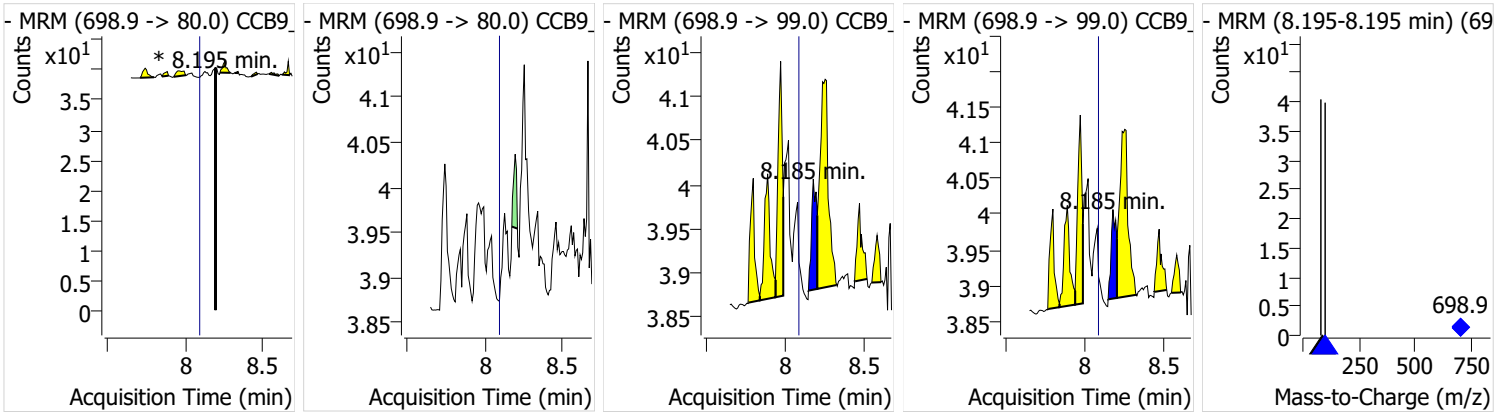

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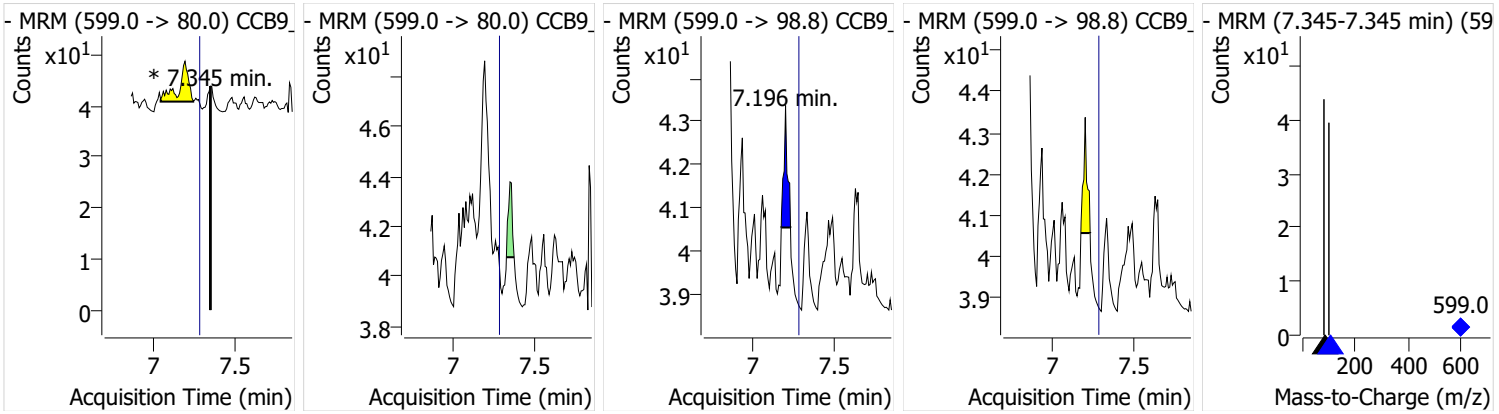

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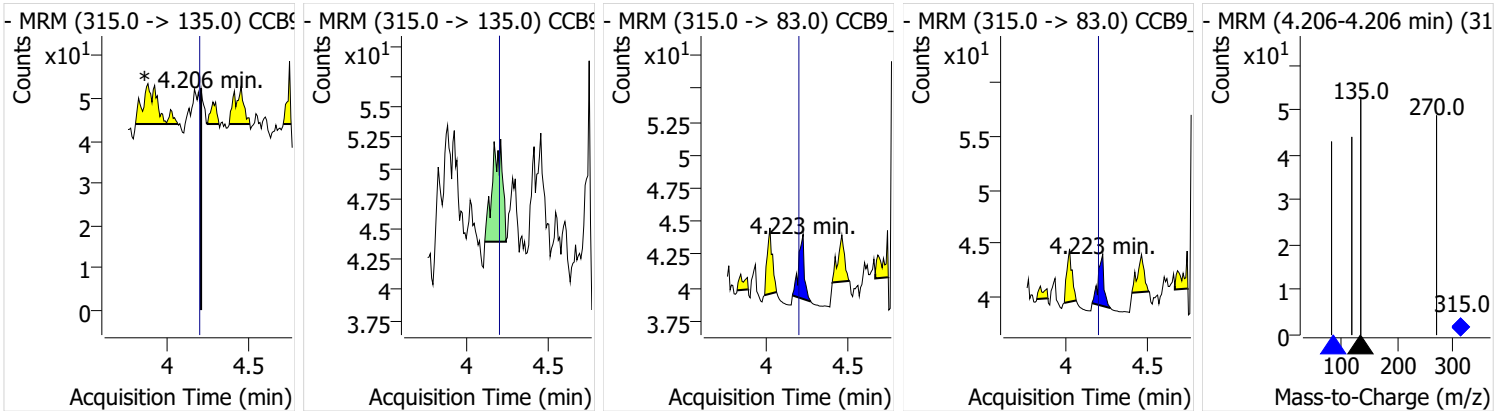

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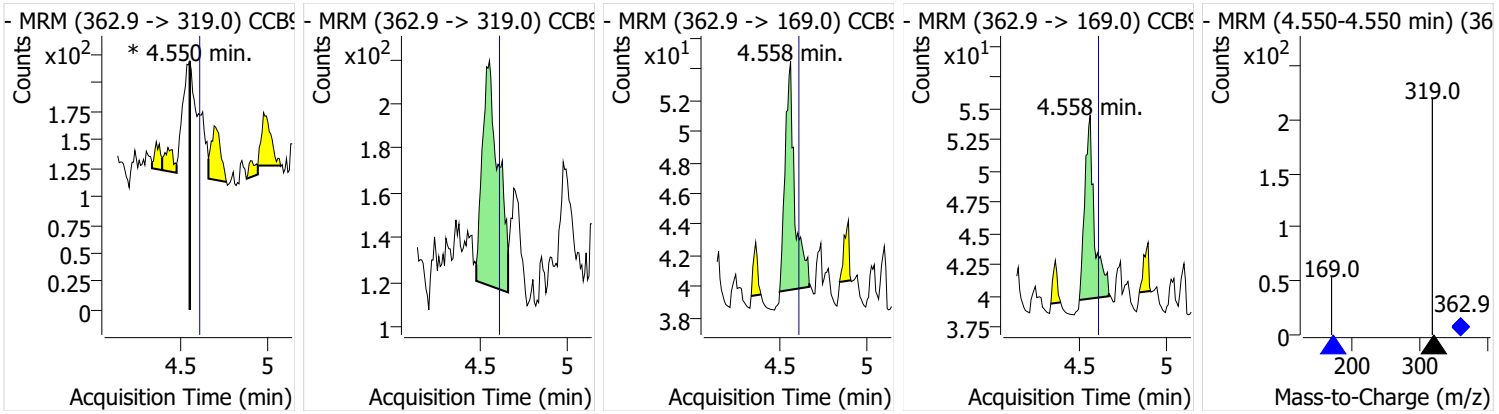

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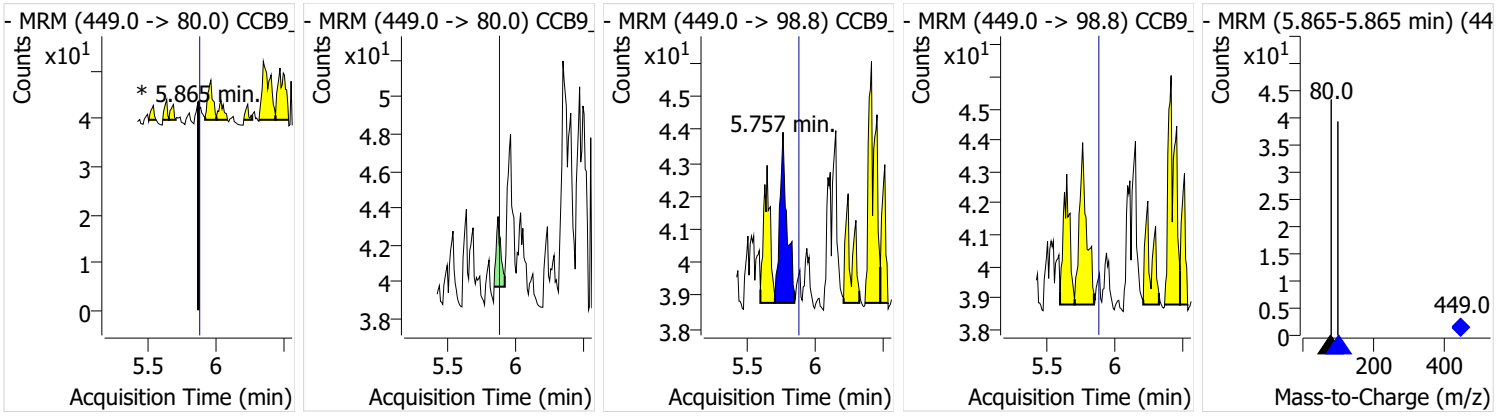

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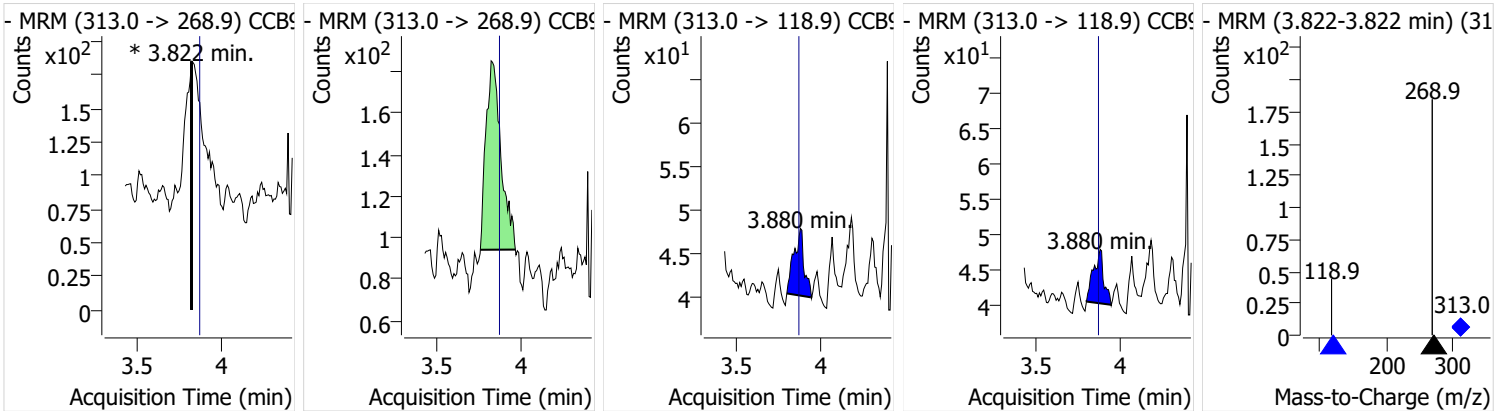

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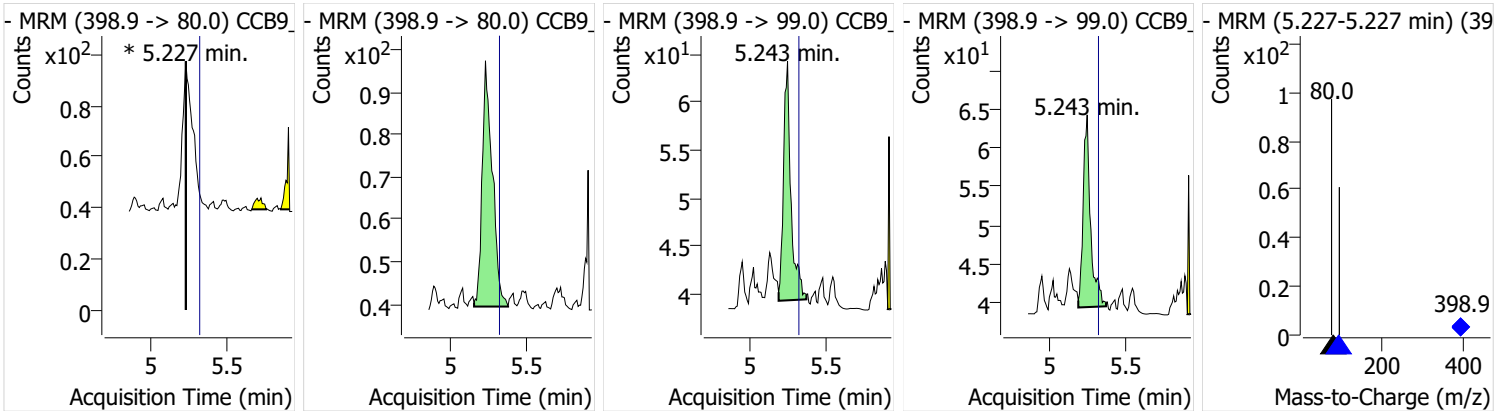

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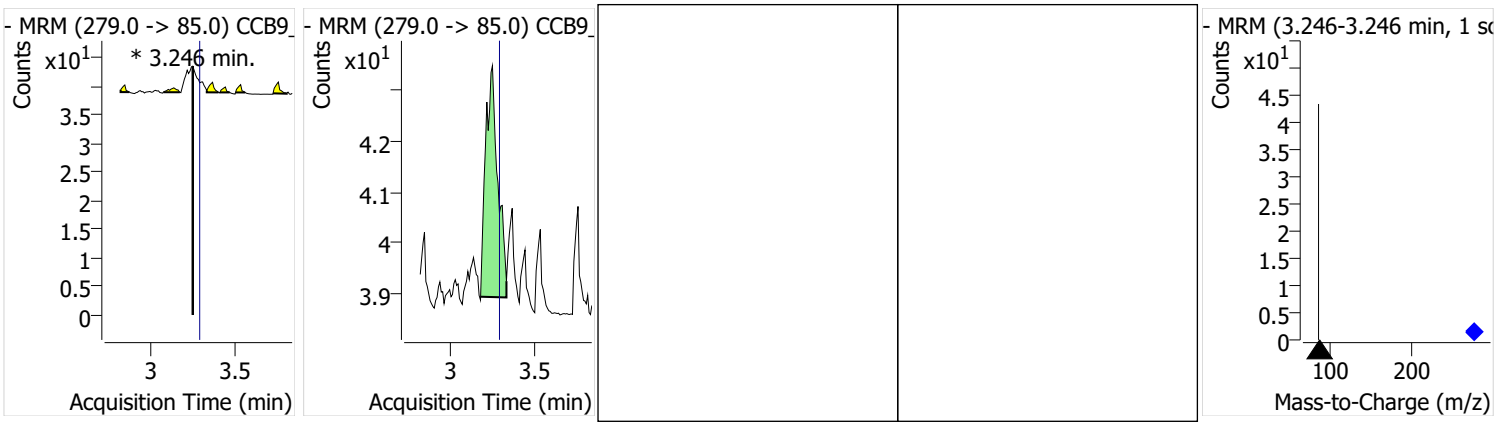

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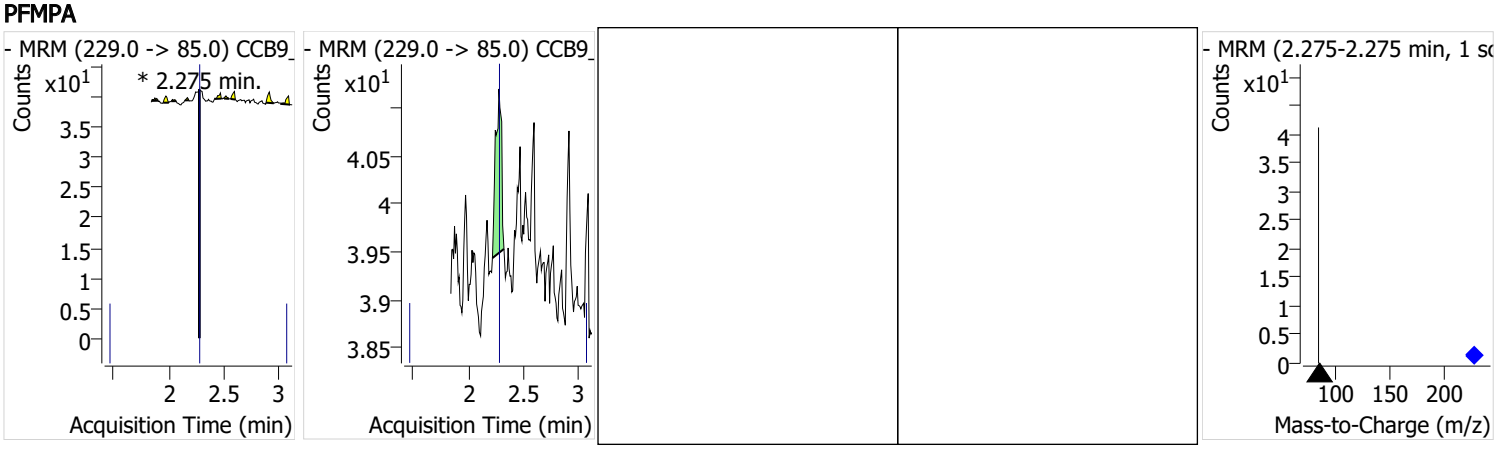

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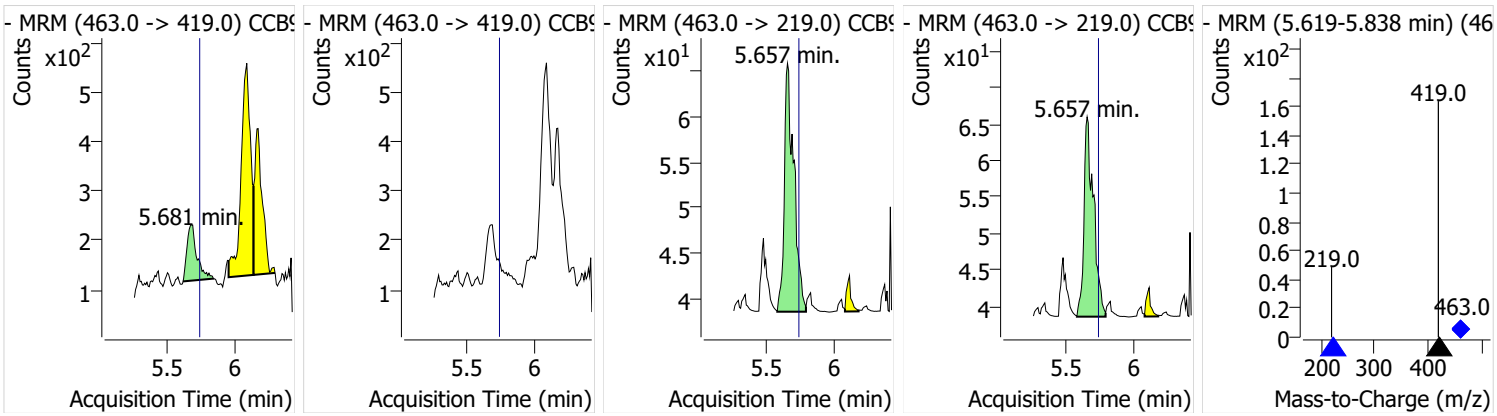

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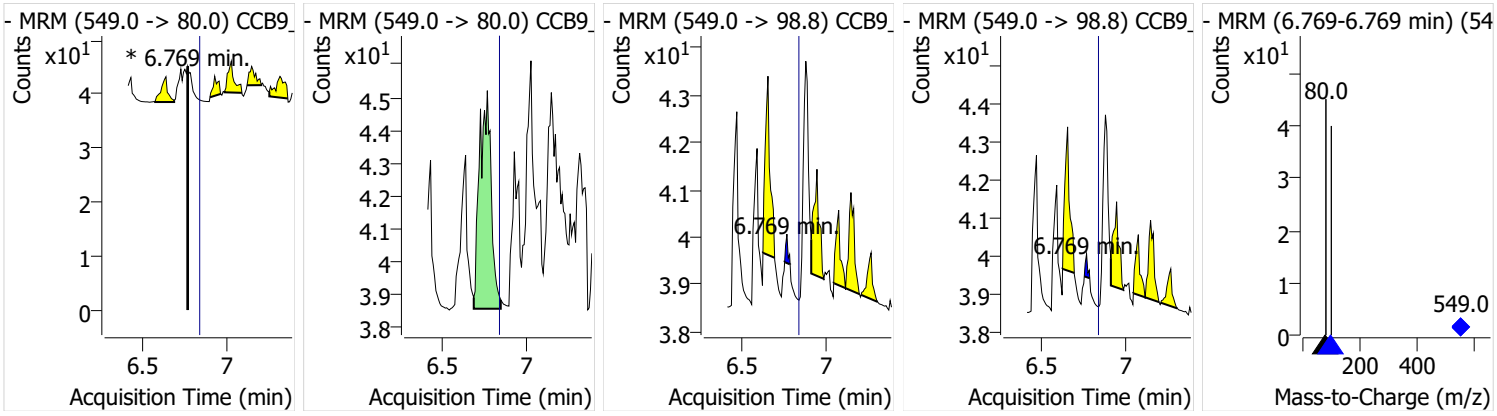

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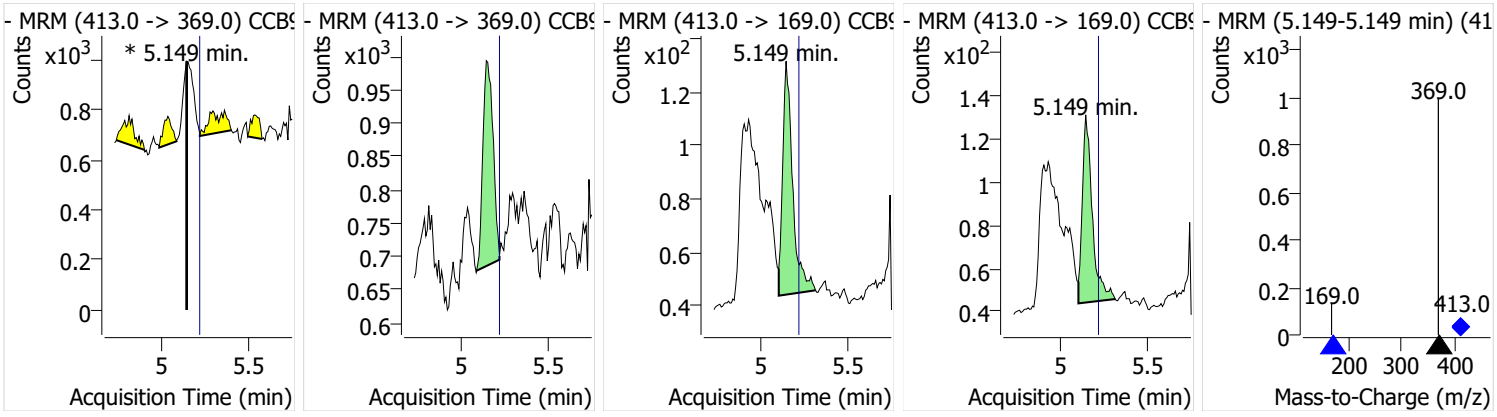

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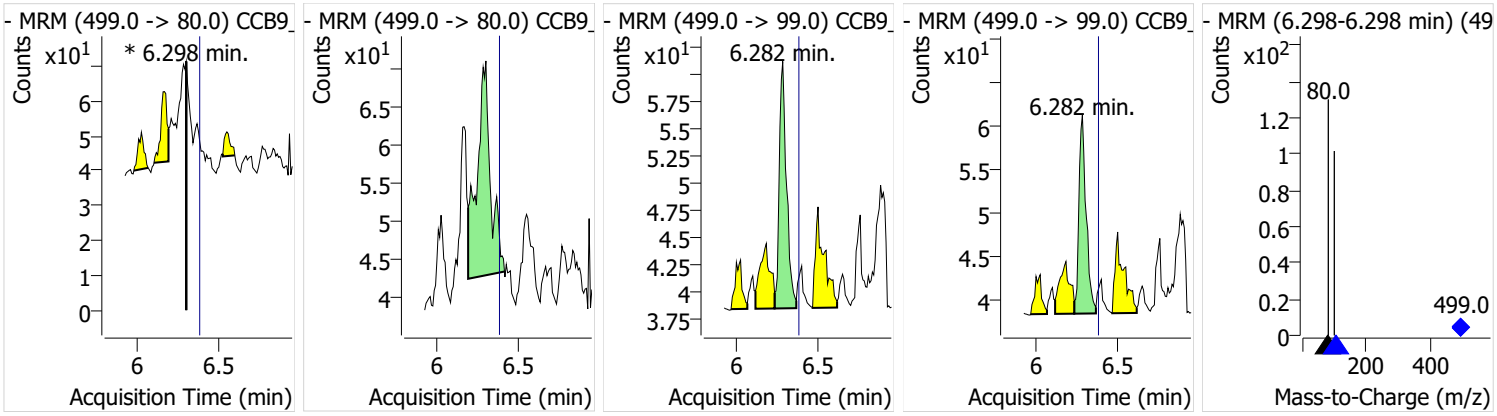

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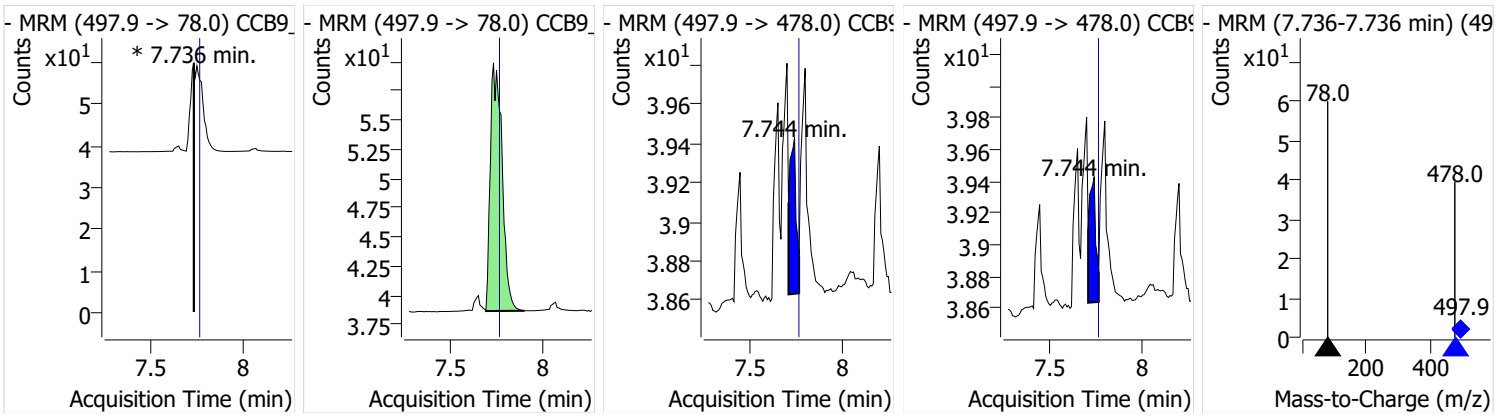

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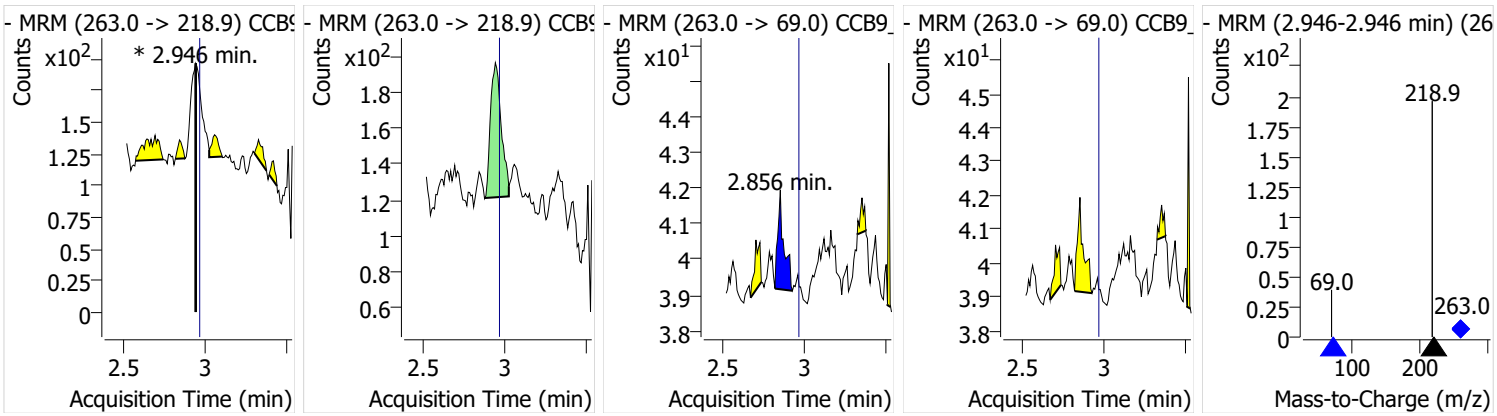

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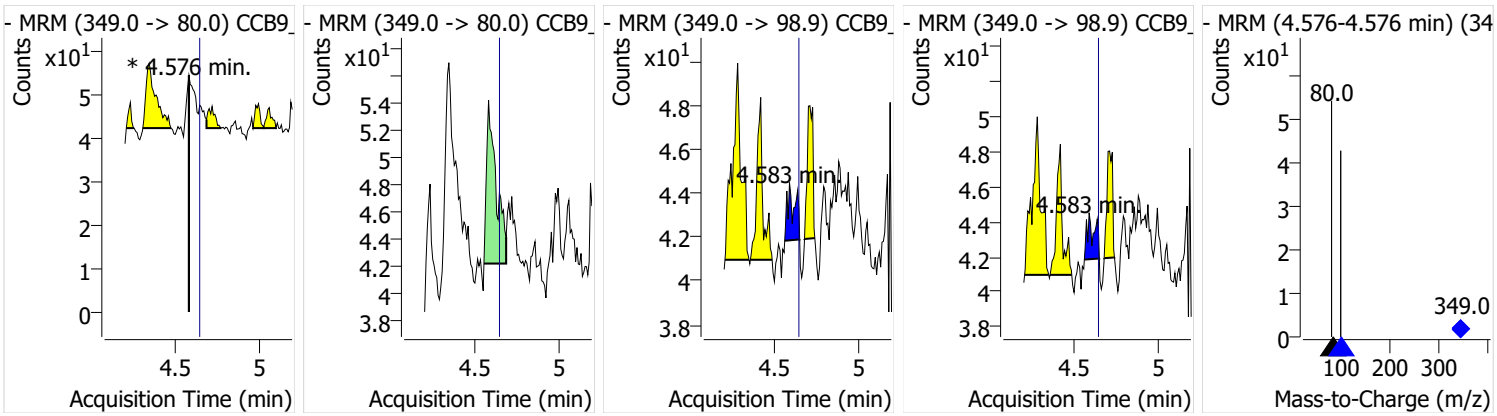

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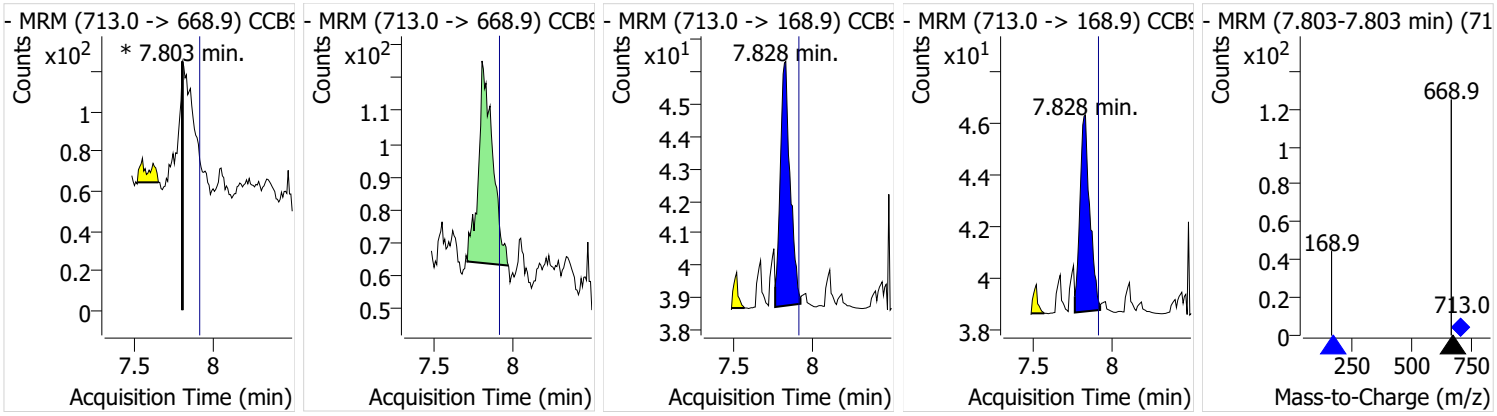
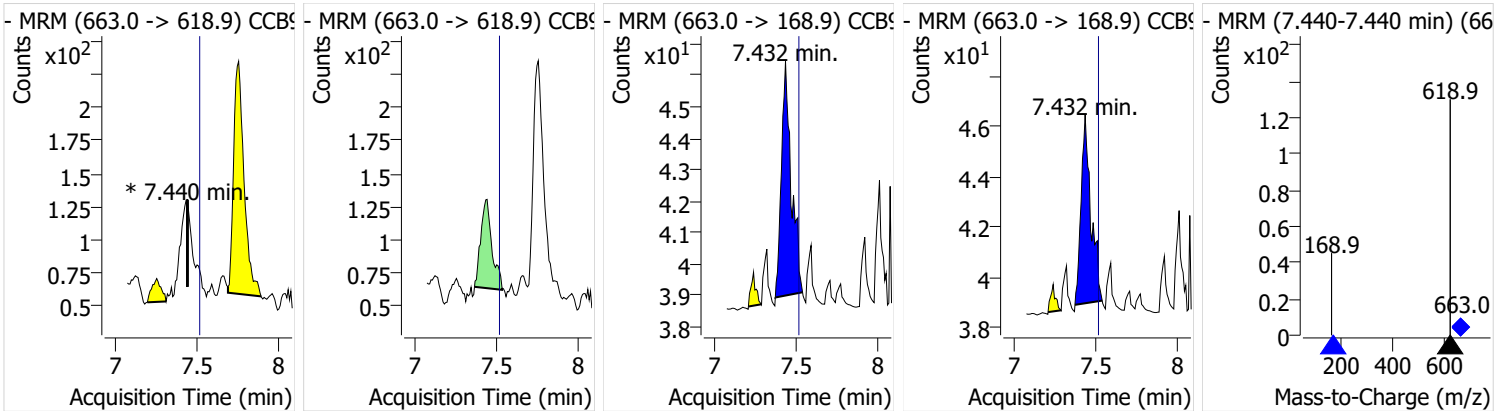


PFTrDA



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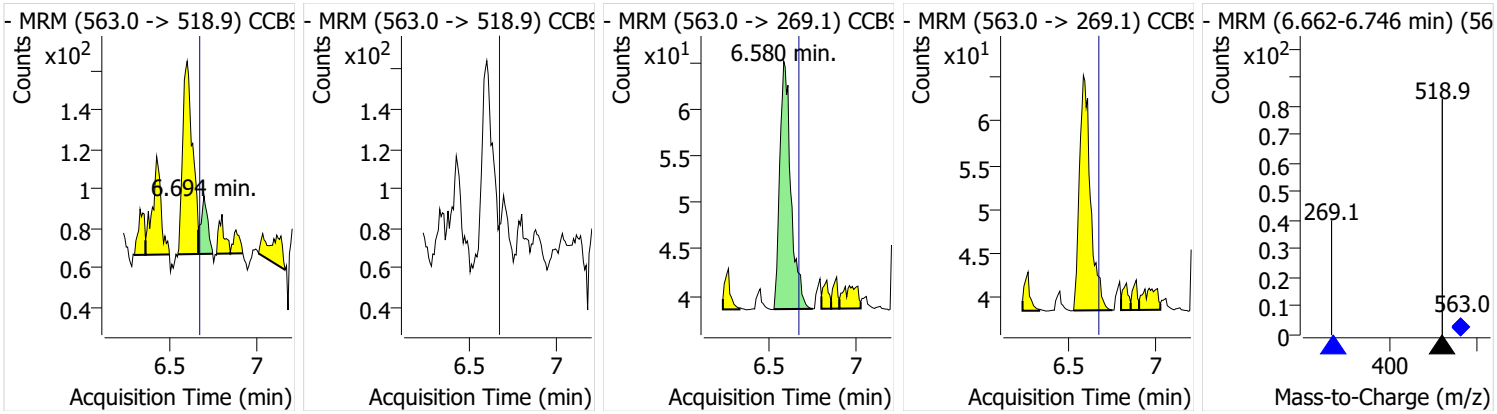

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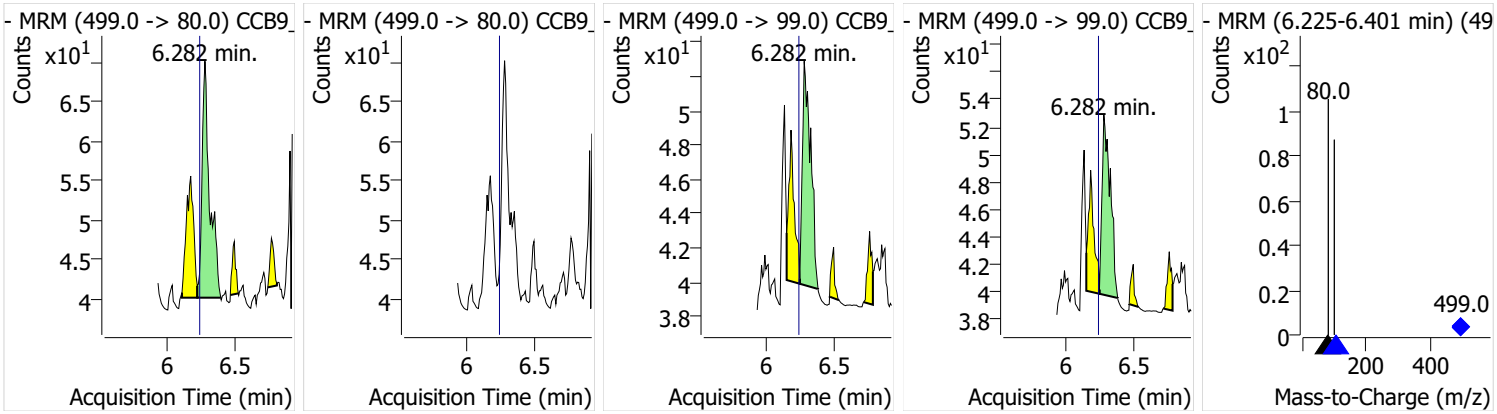
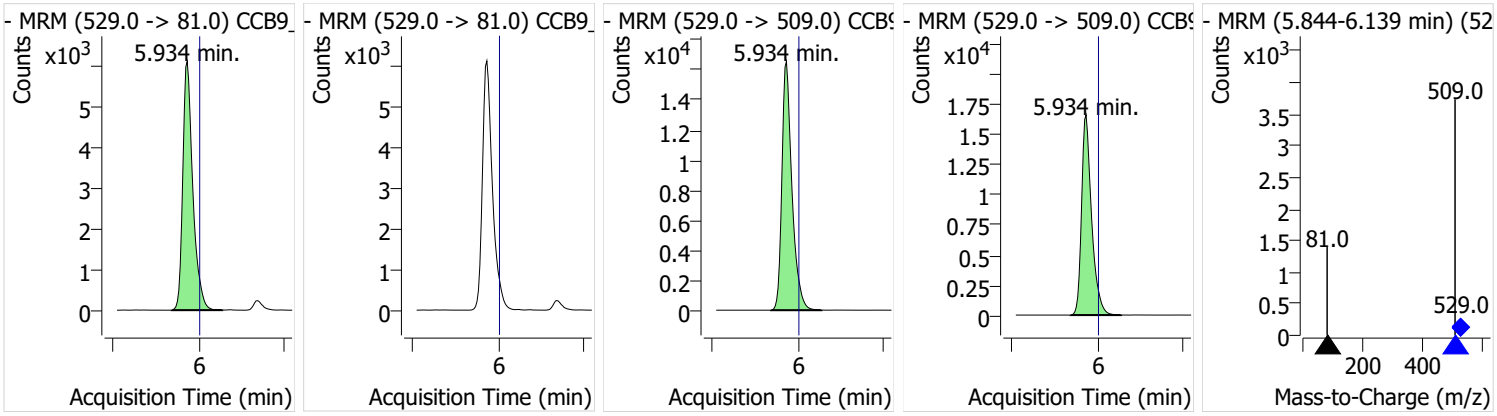
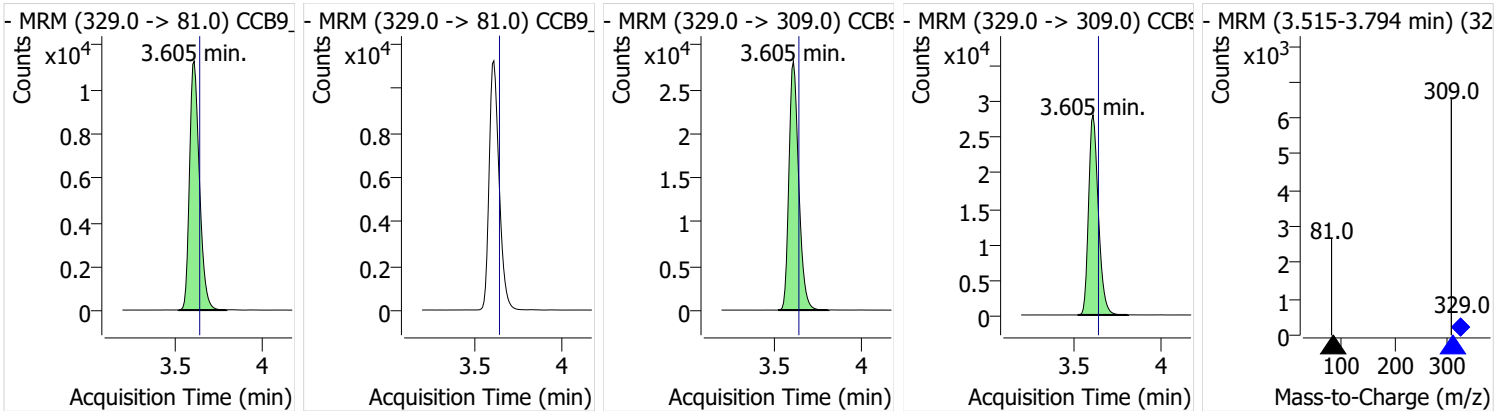


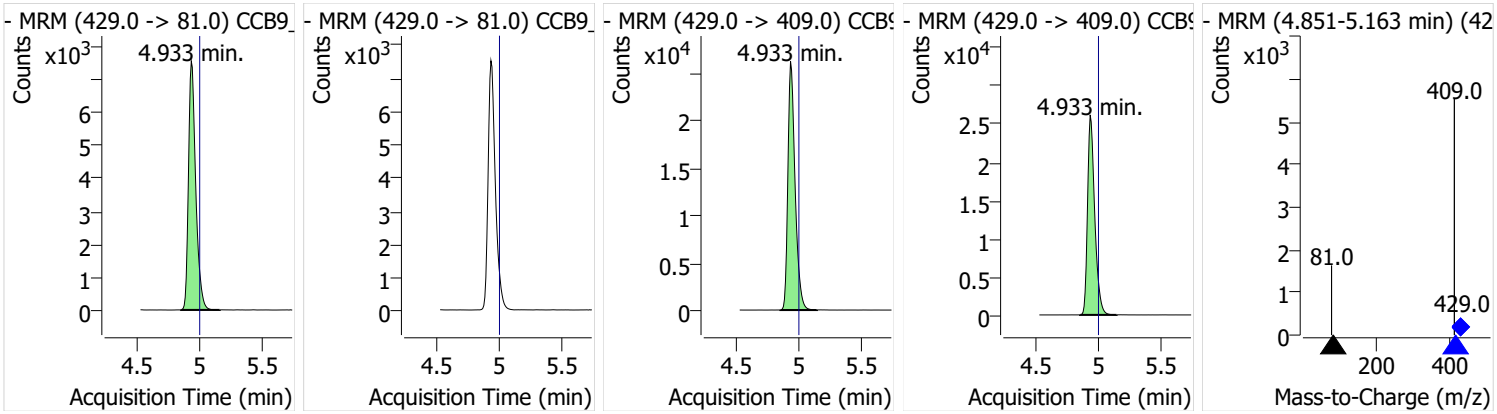
13C2-8:2FTS



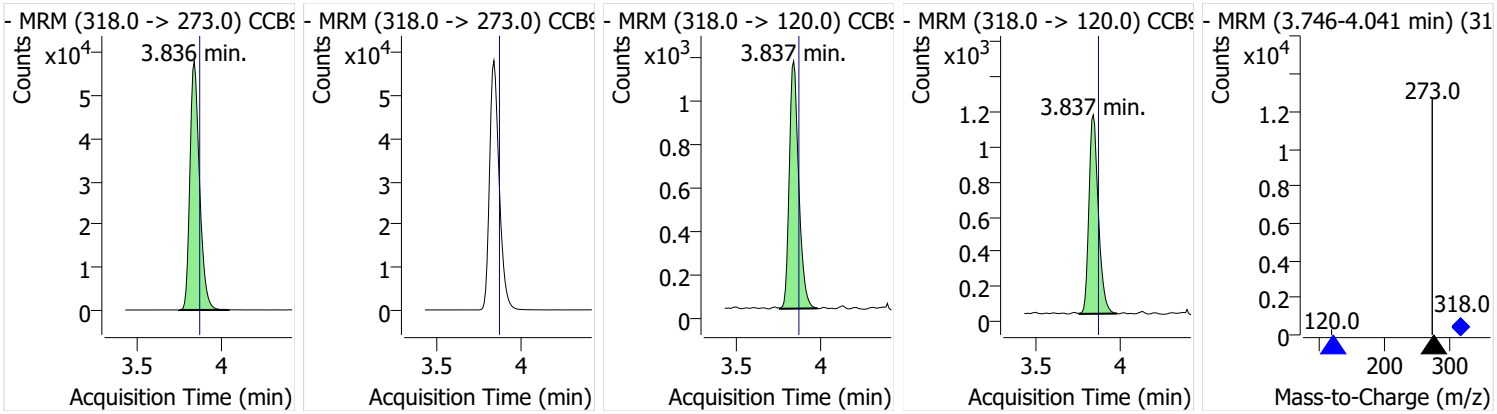
13C2-4:2FTS



13C2-6:2FTS



13C5-PFHxA



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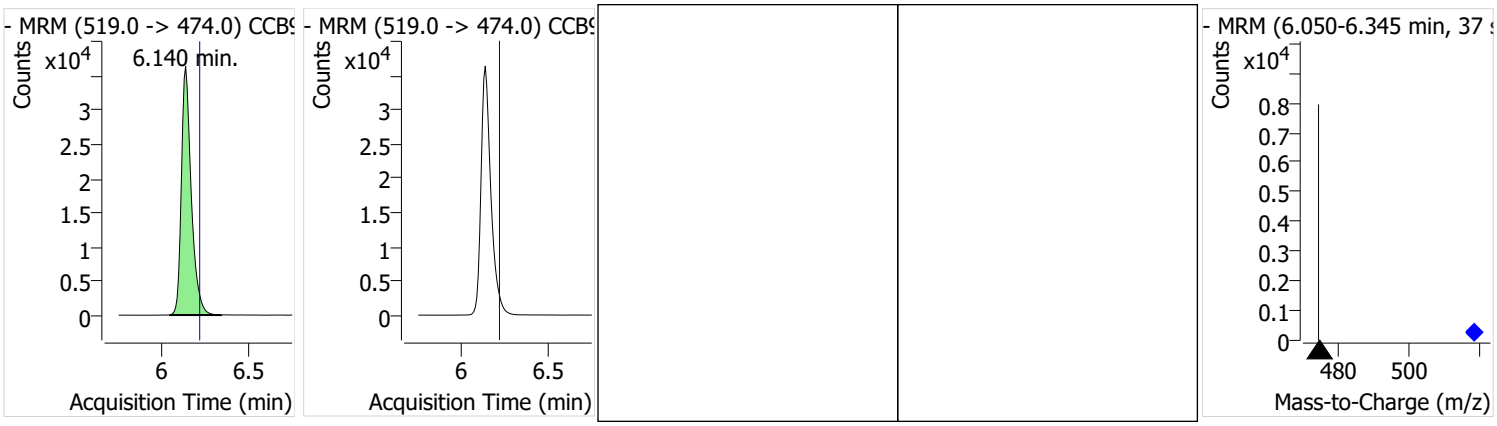
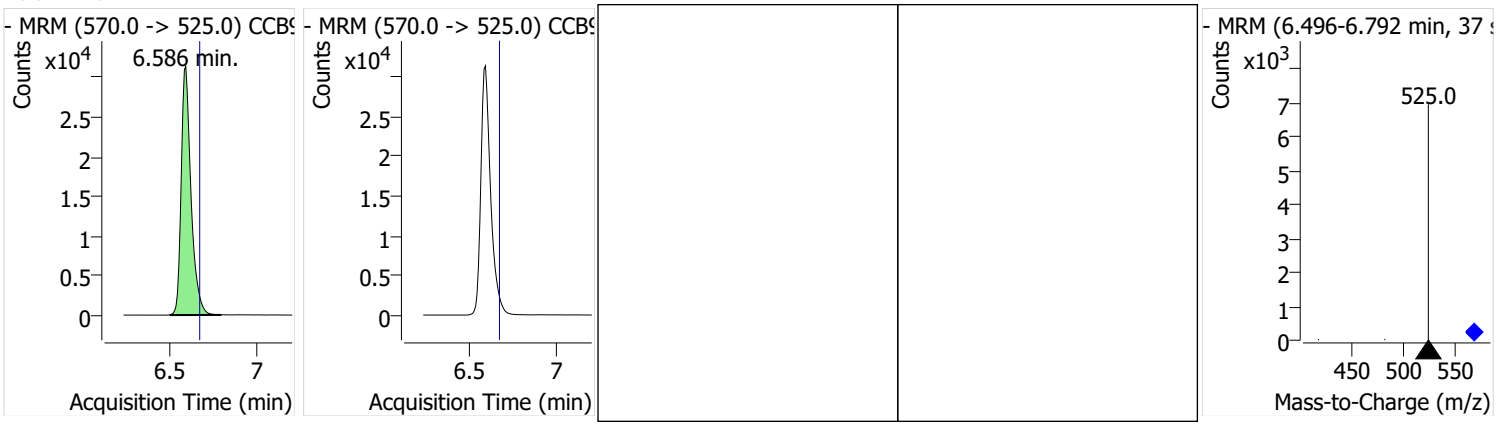
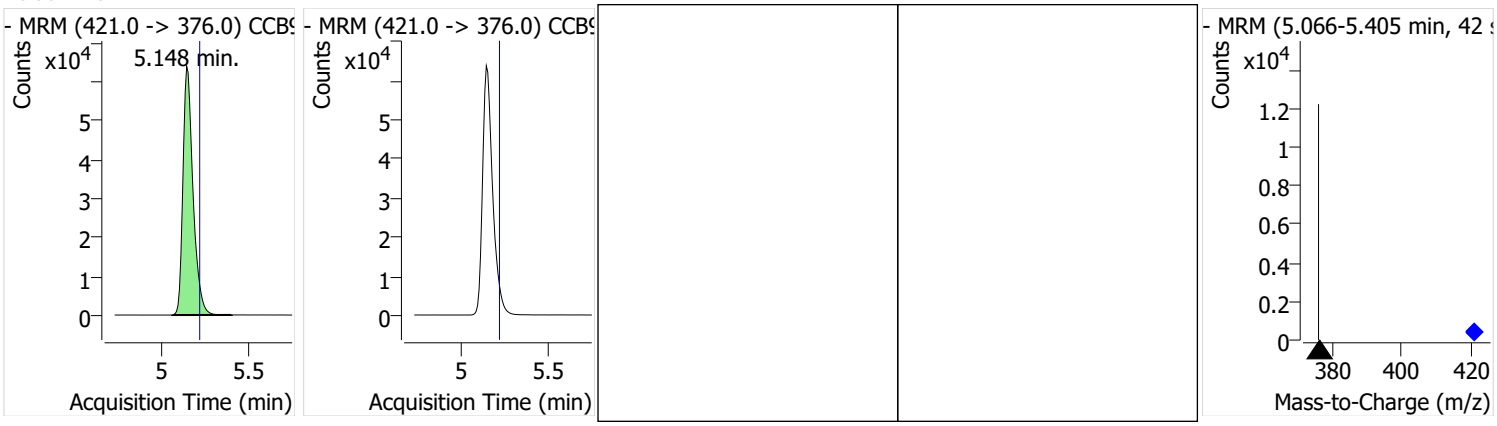


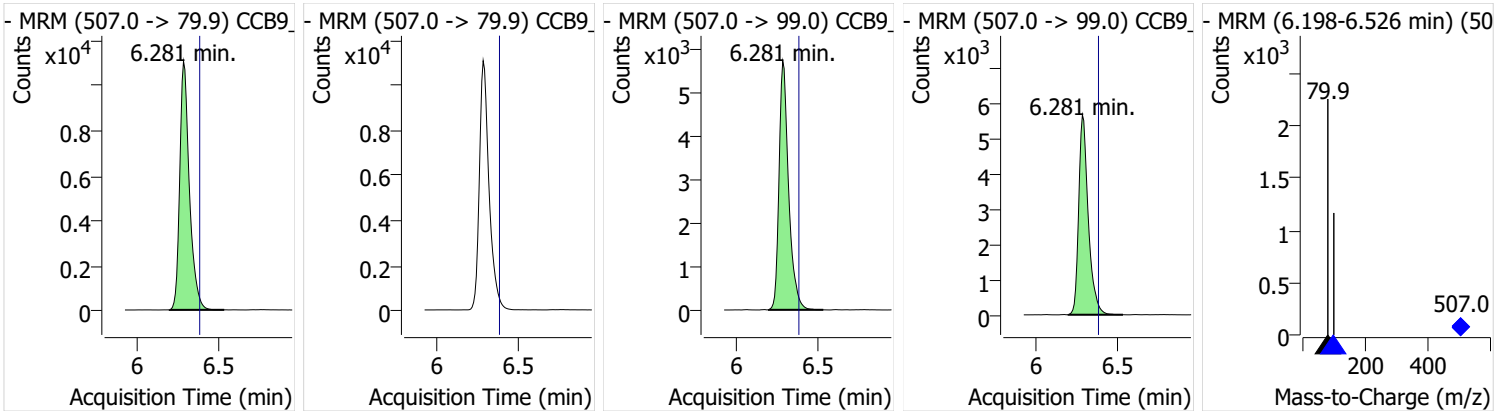
13C7-PFUnA



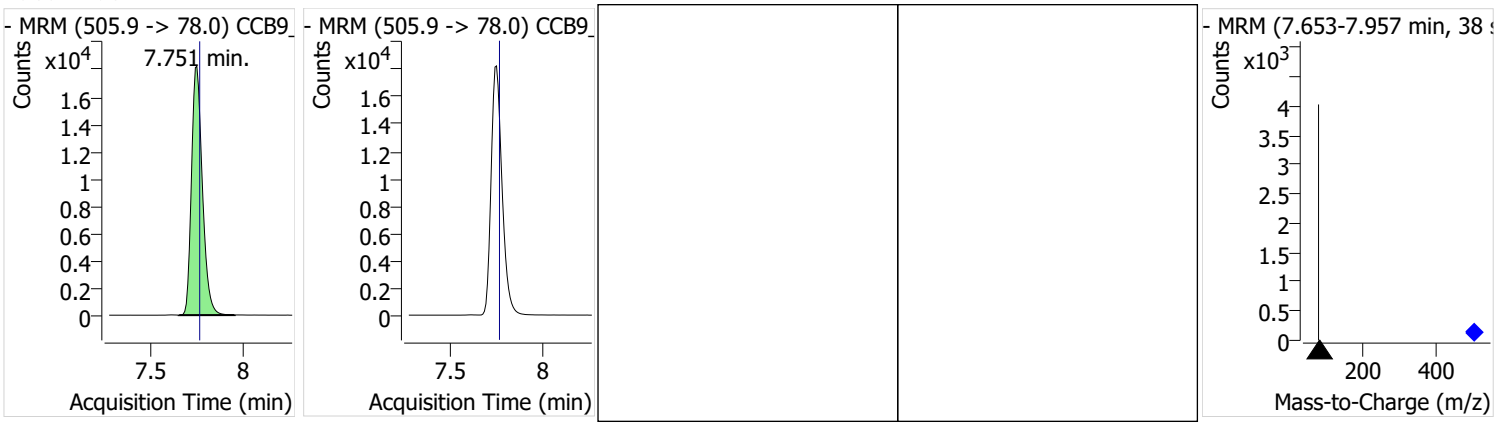
13C8-PFOA



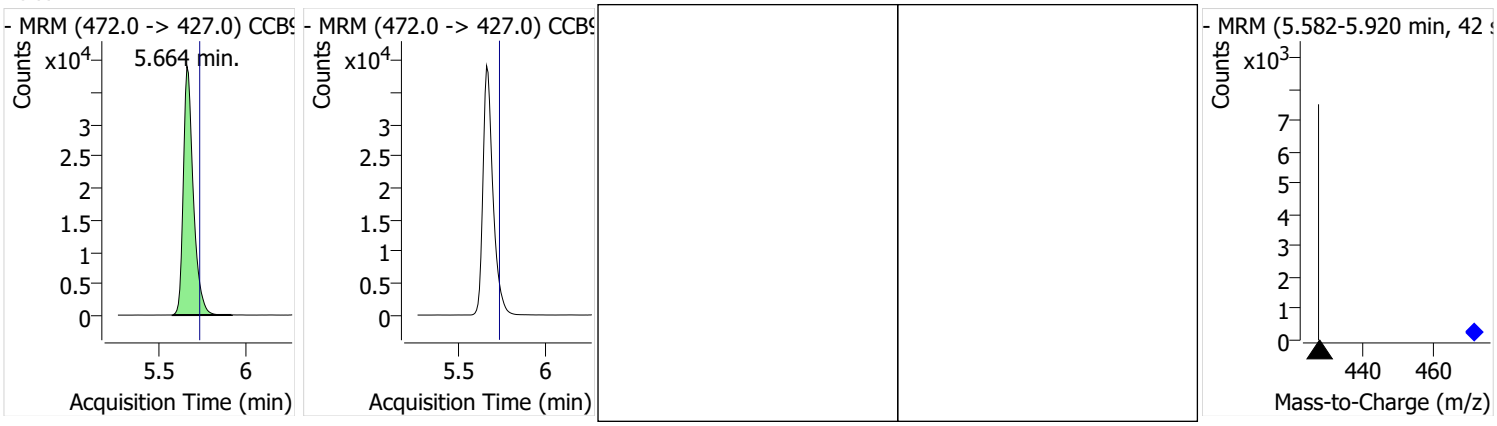
13C8-PFOS



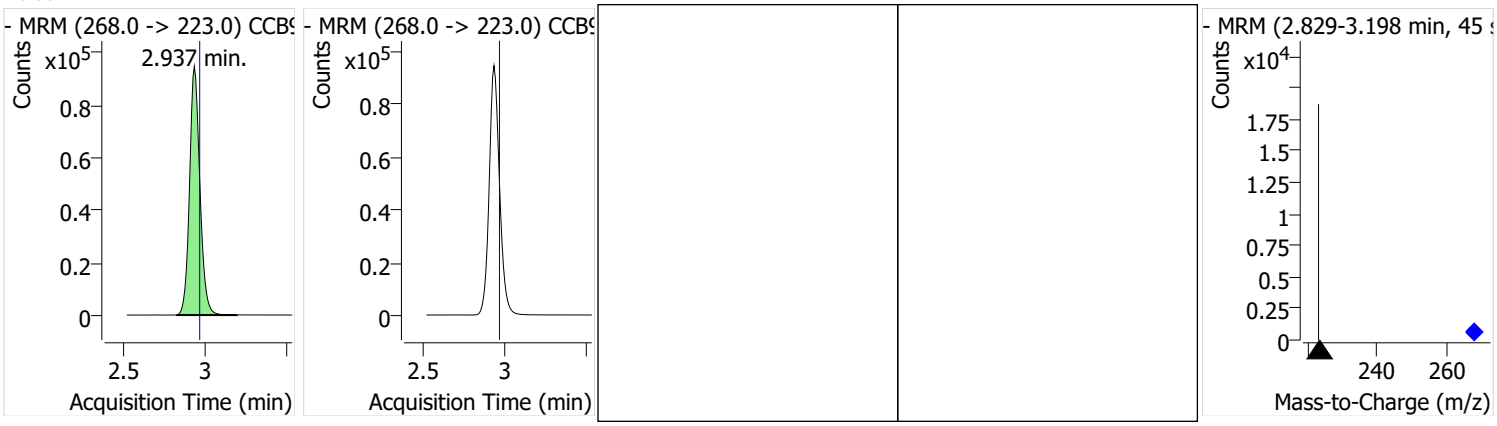
13C8-PFOSA



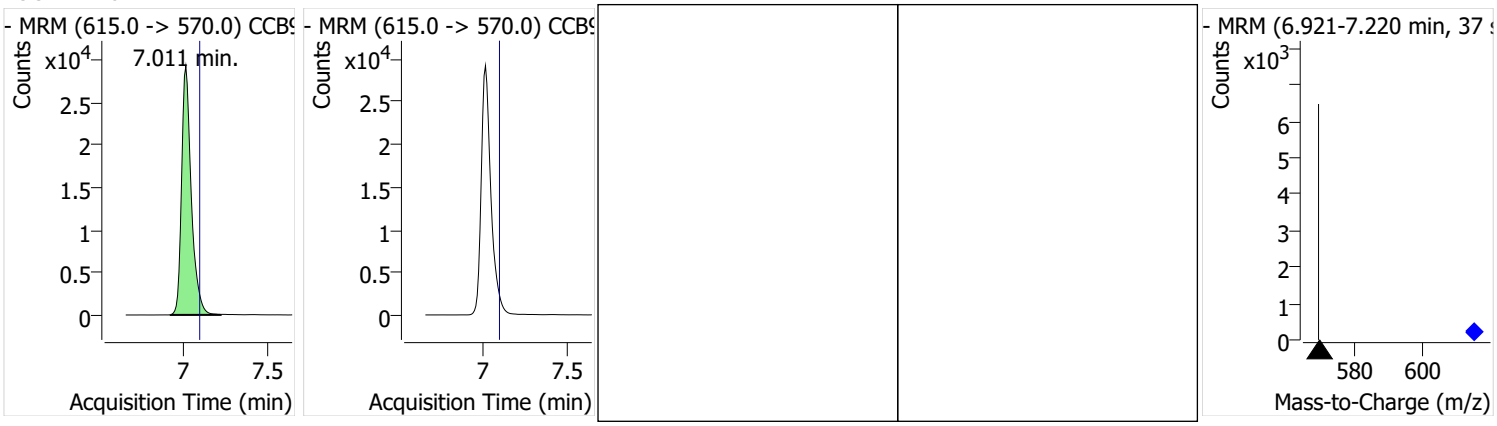
13C9-PFNA



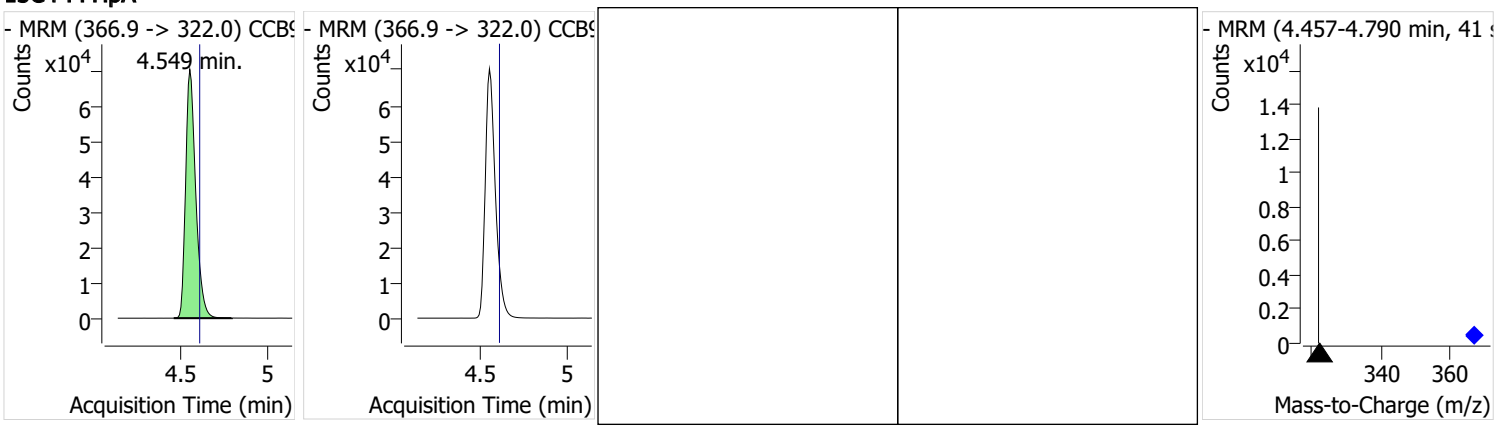
13C5-PFPeA



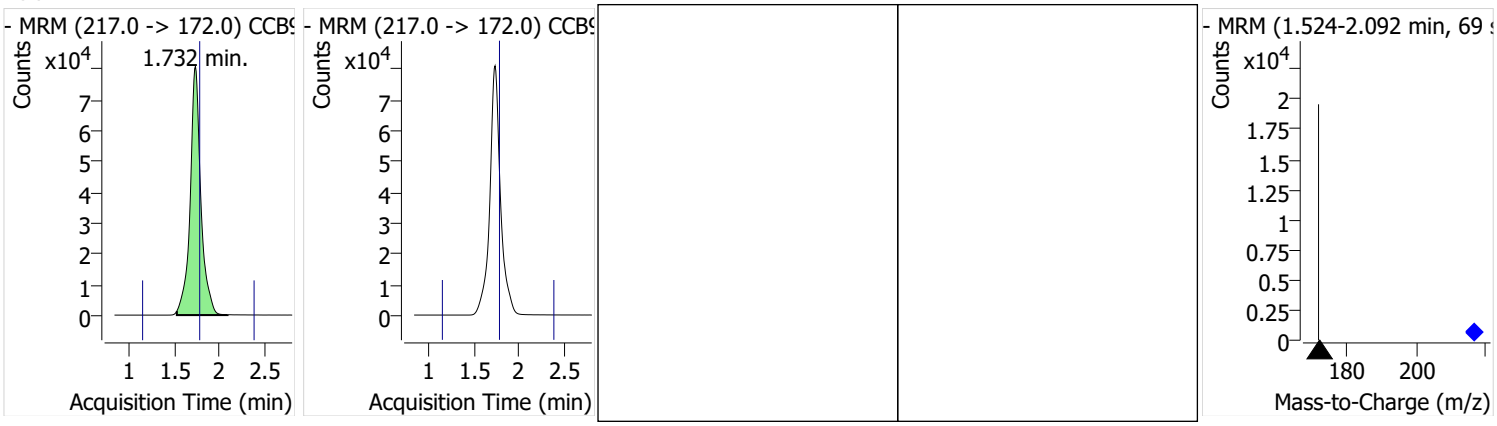
13C2-PFDoA



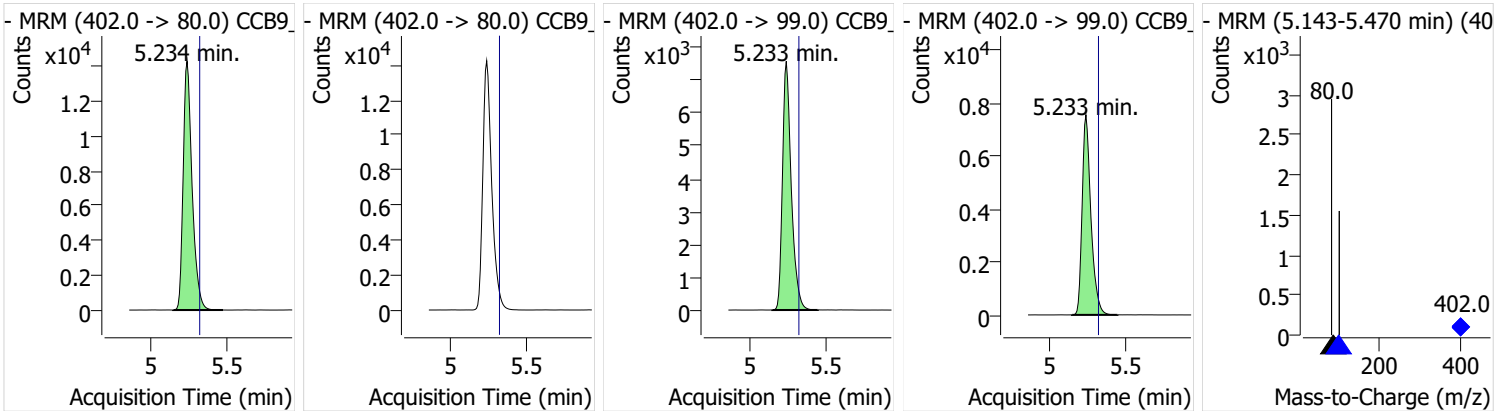
13C4-PFHpA



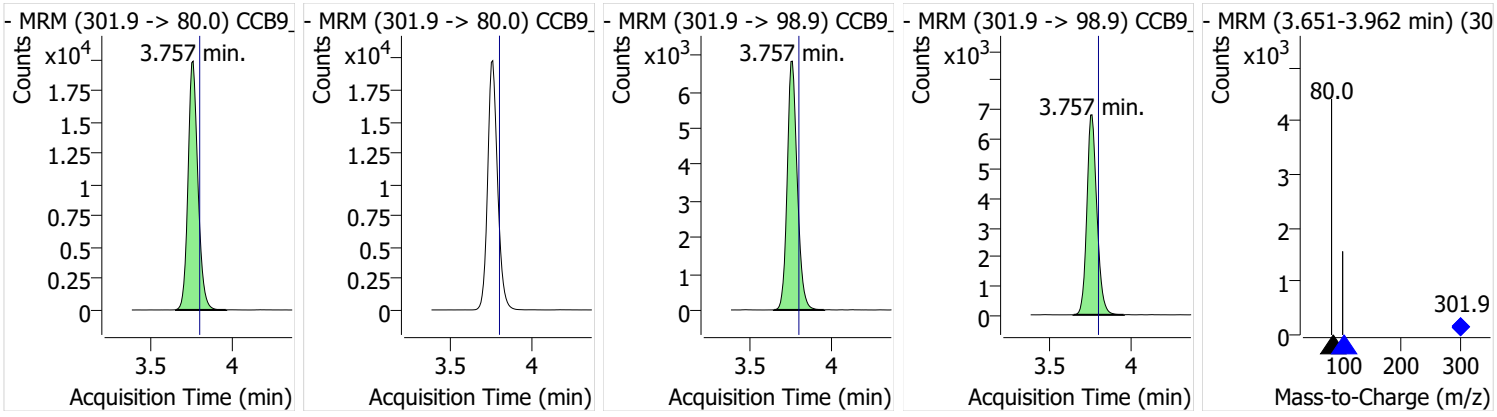
13C4-PFBA



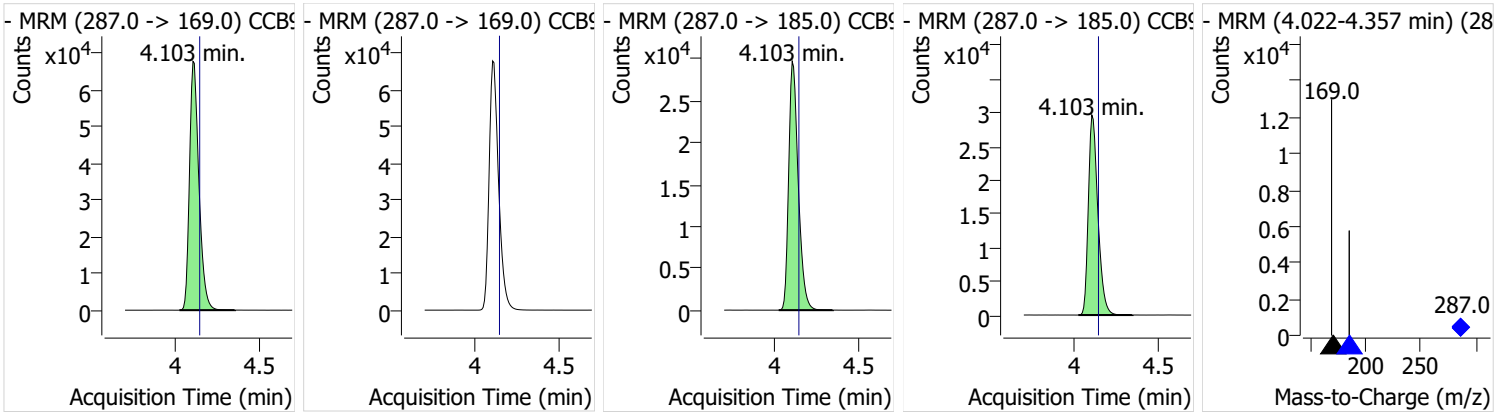
13C3-PFHxS



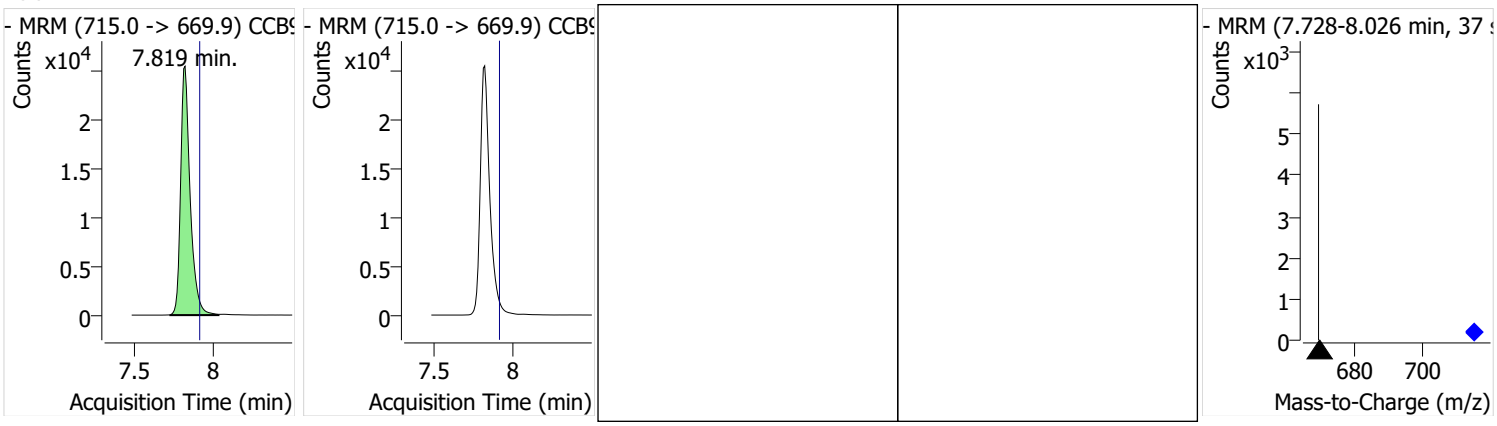
13C3-PFBS



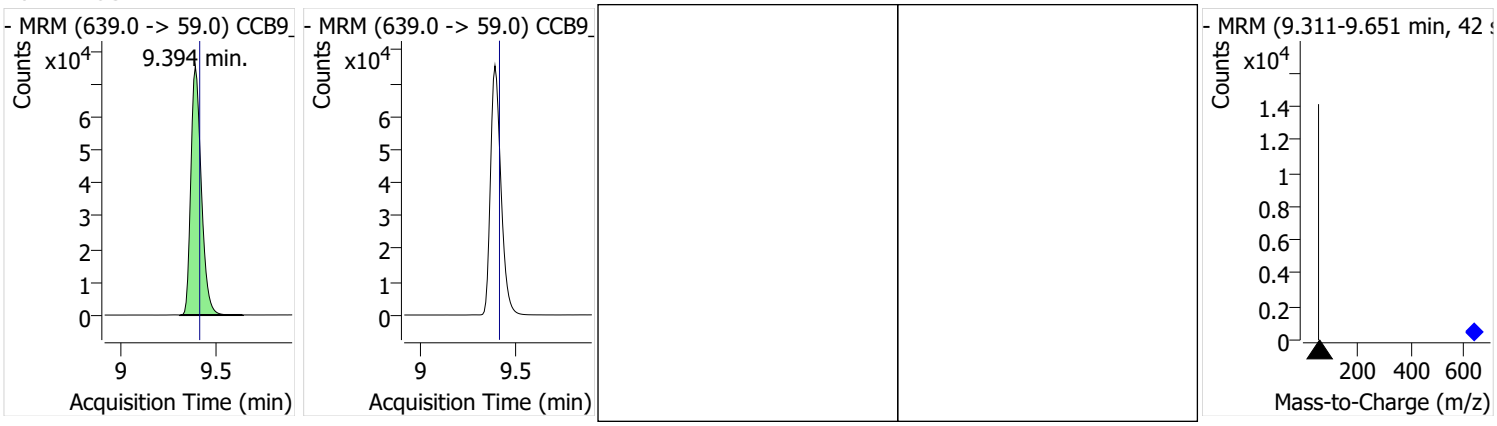
13C3-HFPODA



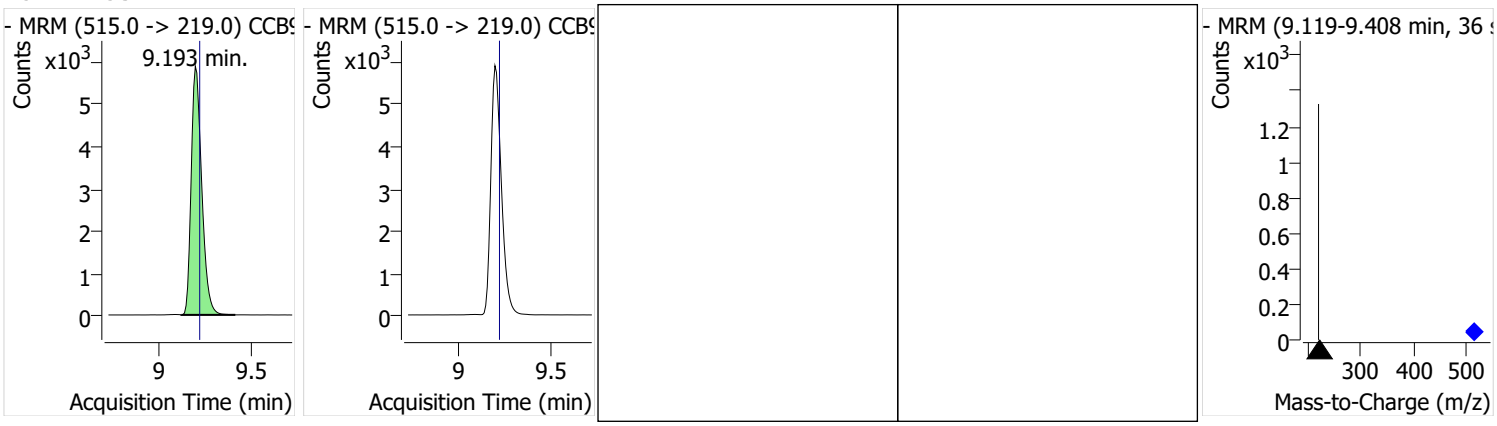
13C2-PFTeDA



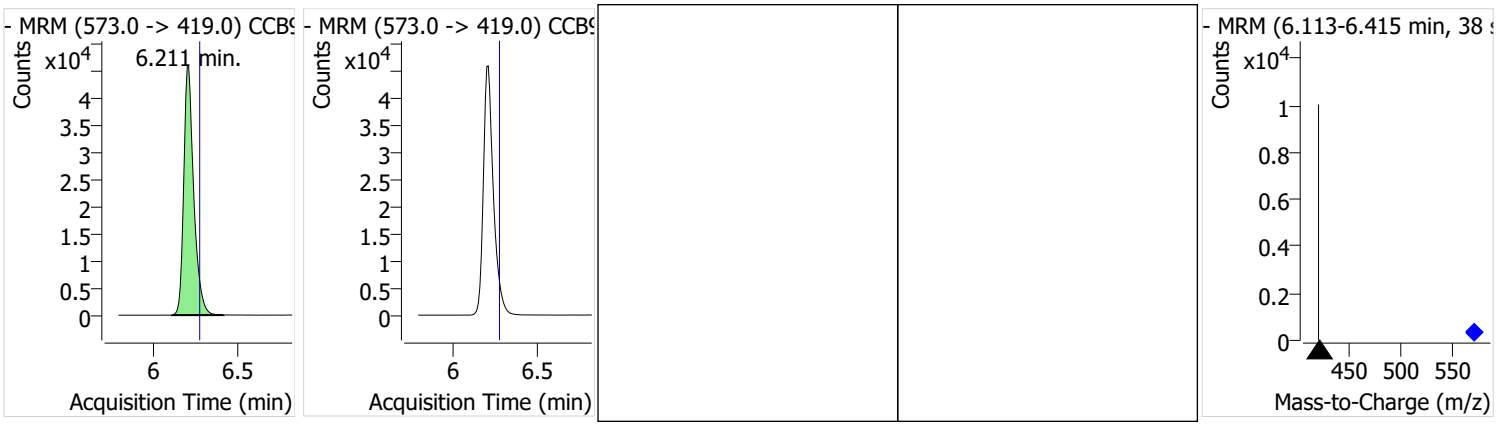
D9-NEtFOSE



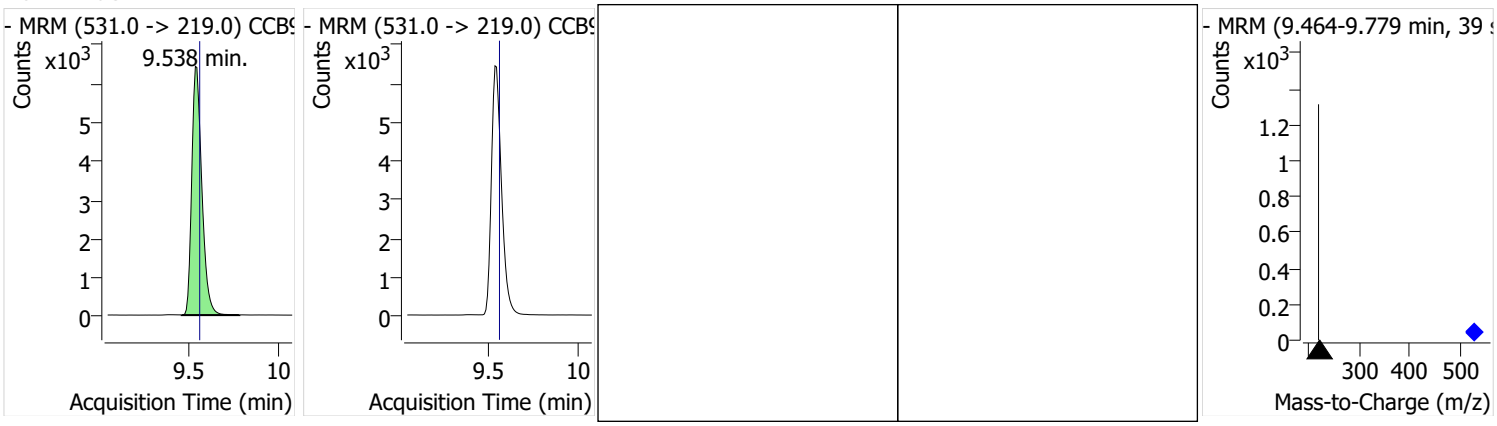
D3-NMeFOSA



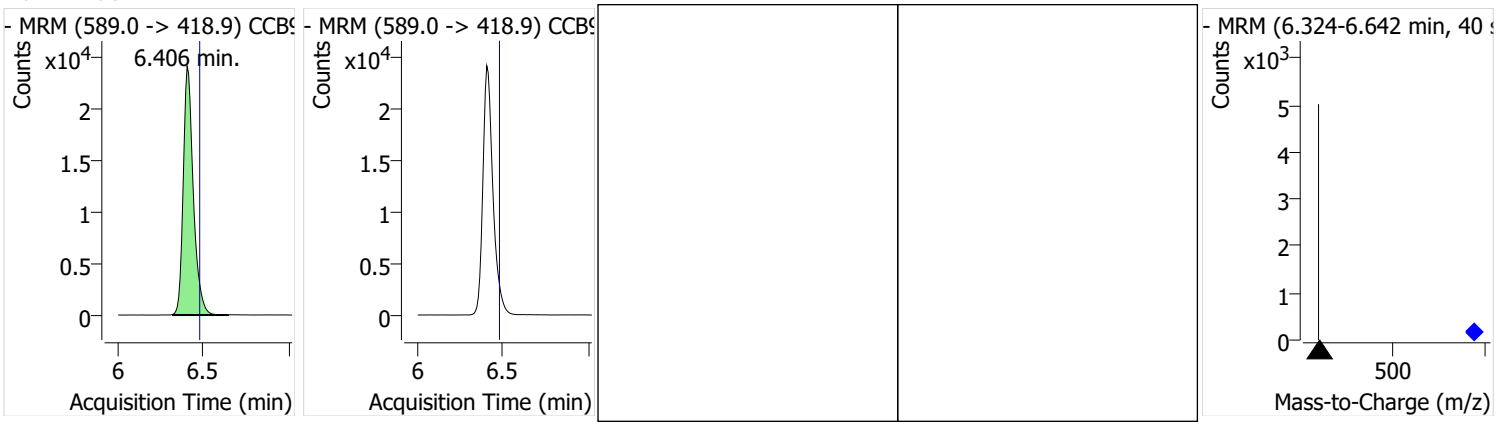
D3-NMeFOSAA



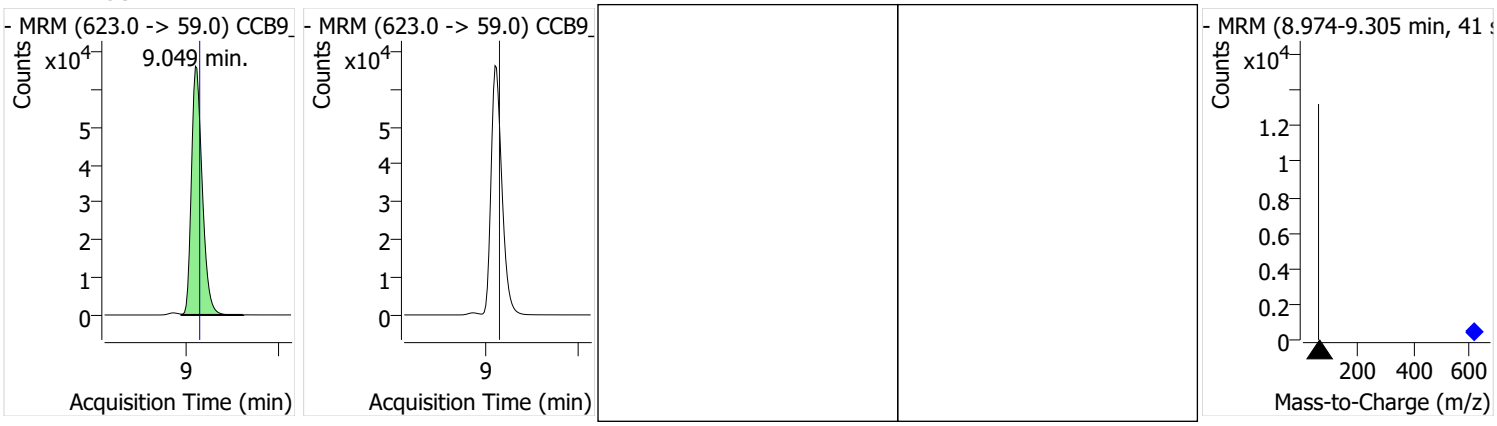
D5-NEtFOSA



D5-NEtFOSAA



D7-NMeFOSE



1 - FORM I
ANALYSIS DATA SHEET

Calibration Blank

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Water	Laboratory ID:	S105135-CCB1	File ID:	CCB1_1633_052824.d
Sampled:		Prepared:	05/28/24 00:00	Analyzed:	05/28/24 13:46
Solids:		Preparation:	B375132	Dilution:	
Batch:	S105135	Sequence:	S105135	Calibration:	2400593
Instrument:	QQQ5				
Column:	1				

CAS NO.	COMPOUND	CONC. (ng/mL)	MDL	RL	Q
375-22-4	Perfluorobutanoic acid (PFBA)	0.0	0.22	0.40	
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.0	0.043	0.20	
307-24-4	Perfluorohexanoic acid (PFHxA)	0.0	0.024	0.10	
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.0	0.027	0.10	
335-67-1	Perfluorooctanoic acid (PFOA)	0.0	0.026	0.10	
375-95-1	Perfluorononanoic acid (PFNA)	0.0	0.019	0.10	
335-76-2	Perfluorodecanoic acid (PFDA)	0.0	0.021	0.10	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.0	0.020	0.10	
307-55-1	Perfluorododecanoic acid (PFDoA)	0.0	0.020	0.10	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.0	0.030	0.10	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.0	0.026	0.10	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.0	0.021	0.10	
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.0	0.026	0.10	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.0	0.028	0.10	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.0	0.033	0.10	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.0	0.038	0.10	
68259-12-1	Perfluorononanesulfonic acid (PFNS)	0.0	0.025	0.10	
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.0	0.029	0.10	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	0.0	0.029	0.10	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (	0.0	0.075	0.40	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid ((	0.0	0.30	0.40	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (	0.0	0.11	0.40	
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.0	0.023	0.10	
31506-32-8	N-methyl perfluoroocatnesulfonamide (NMeF	0.0	0.033	0.10	
4151-50-2	N-ethyl perfluorooctanesulfonamide (NEtFOS	0.0	0.034	0.10	
2355-31-9	N-MeFOSAA (NMeFOSAA)	0.0	0.036	0.10	
2991-50-6	N-EtFOSAA (NEtFOSAA)	0.0	0.040	0.10	
24448-09-7	N-methylperfluorooctanesulfonamidoethanol(	0.0	0.27	1.0	
1691-99-2	N-ethylperfluorooctanesulfonamidoethanol (N	0.0	0.27	1.0	
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPC	0.0	0.10	0.40	

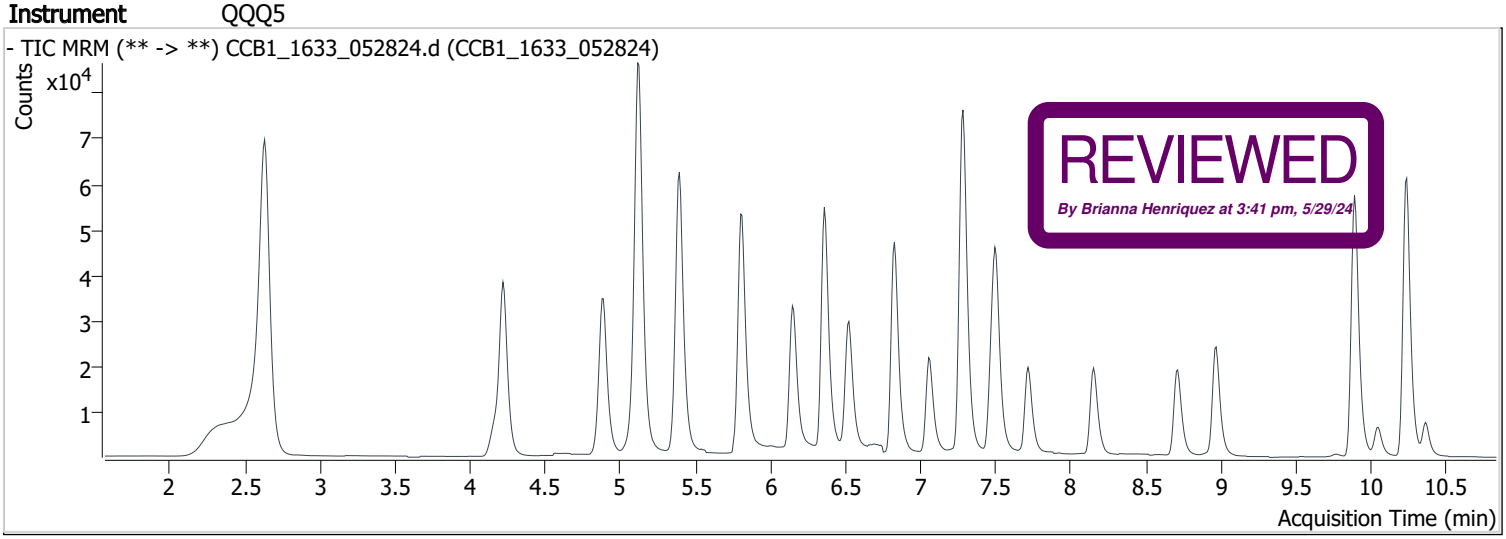
1 - FORM I
ANALYSIS DATA SHEET

Calibration Blank

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Water	Laboratory ID:	S105135-CCB1	File ID:	CCB1_1633_052824.d
Sampled:		Prepared:	05/28/24 00:00	Analyzed:	05/28/24 13:46
Solids:		Preparation:	B375132	Dilution:	
Batch:	S105135	Sequence:	S105135	Calibration:	2400593
Instrument:	QQQ5				
Column:	1				

CAS NO.	COMPOUND	CONC. (ng/mL)	MDL	RL	Q
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADON/	0.0	0.082	0.40	
756426-58-1	9Cl-PF3ONS (F53B Minor)	0.0	0.096	0.40	
763051-92-9	11Cl-PF3OUdS (F53B Major)	0.0	0.11	0.40	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)(3:3	0.0	0.22	1.0	
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)	0.0	1.1	5.0	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)(7:3	0.0	0.95	5.0	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEE	0.0	0.035	0.20	
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.0	0.056	0.20	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	0.0	0.054	0.20	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.0	0.055	0.20	

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CCVS.batch.bin		
Analysis Time	5/29/2024 11:23 AM	**Last Calib Update**	5/29/2024 8:40 AM
Acq. Time	5/28/2024 1:46 PM	**Data File**	CCB1_1633_052824.d
Sample Type	Sample	**Sample Name**	CCB1_1633_052824
Dilution	1	**Acq. Method**	1633_ACQUISITION.m
Sample Comment	E#24E0527	**Processing method**	1633_052824.m
Instrument	QQQ5		



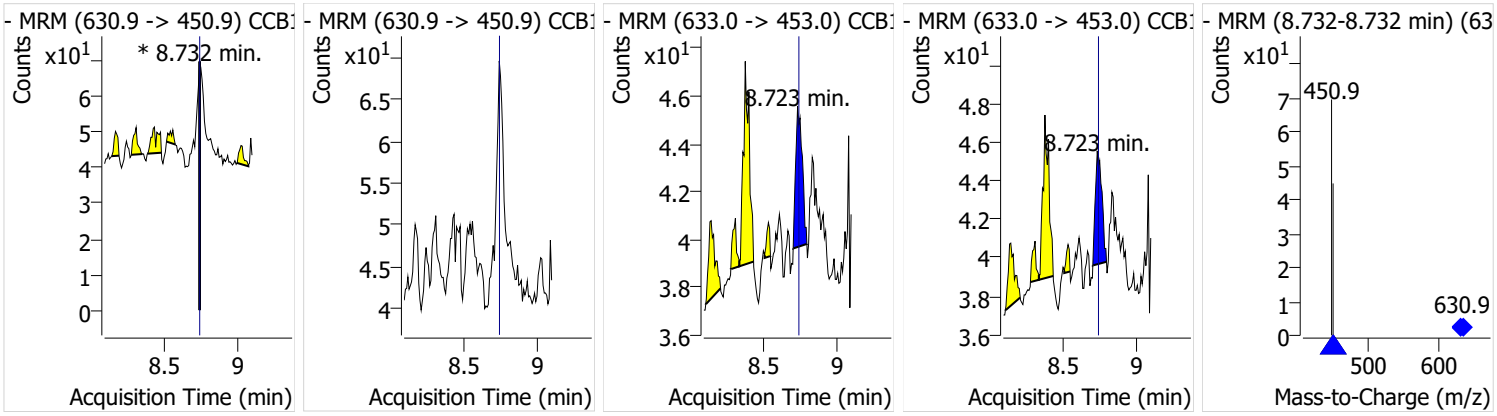
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
11Cl-PF3OUdS	8.732	0			13C3-HFPODA - ISTD	5.400	163535	-	ng/ml	✔	1	AMS 05/29/24
633.0 -> 453.0				*								
3:3FTCA	3.629	0			13C5-PFPeA - ISTD	4.220	173269	-	ng/ml	✔	1	AMS 05/29/24
241.0 -> 117.0				*								
4:2FTS	4.879	0			13C2-4:2FTS - ISTD	4.879	35480	-	ng/ml	✔	1	AMS 05/29/24
327.0 -> 80.9				*								
5:3FTCA	5.534	0			13C5-PFHxA - ISTD	5.117	141854	-	ng/ml	✔	1	AMS 05/29/24
341.0 -> 217.0				*								
6:2FTS	6.147	0			13C2-6:2FTS - ISTD	6.147	26737	-	ng/ml	✔	1	AMS 05/29/24
427.0 -> 80.9				*								
7:3FTCA	6.699	0			13C5-PFHxA - ISTD	5.117	141854	-	ng/ml	✔	1	AMS 05/29/24
441.0 -> 317.0				*								
8:2FTS	7.088	0			13C2-8:2FTS - ISTD	7.055	23210	-	ng/ml	✔	1	AMS 05/29/24
527.0 -> 81.0				*								
9Cl-PF3ONS	7.851	0			13C3-HFPODA - ISTD	5.400	163535	-	ng/ml	✔	1	AMS 05/29/24
533.0 -> 353.0				*								
ADONA	6.012	0			13C3-HFPODA - ISTD	5.400	163535	-	ng/ml	✔	1	AMS 05/29/24
377.0 -> 85.1				*								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA	5.409	0			13C3-HFPODA - ISTD	5.400	163535	-	ng/ml	✔	1	AMS 05/29/24
285.0 -> 184.9				*								
NEtFOSA	10.381	0			D5-NEtFOSA - ISTD	10.362	22495	-	ng/ml	✔	1	AMS 05/29/24
526.0 -> 219.0				*								
NEtFOSAA	7.470	0			D5-NEtFOSAA - ISTD	7.477	74748	-	ng/ml	✔	1	AMS 05/29/24
584.0 -> 526.0				*								
NEtFOSE	10.261	0			D9-NEtFOSE - ISTD	10.236	217759	-	ng/ml	✔	1	AMS 05/29/24
NFDHA	5.007	0			13C5-PFHxA - ISTD	5.117	141854	-	ng/ml	✔	1	AMS 05/29/24
295.0 -> 85.0				*								
NMeFOSA	9.953	0			D3-NMeFOSA - ISTD	10.051	21846	-	ng/ml	✔	1	AMS 05/29/24
512.0 -> 219.0				*								
NMeFOSAA	7.291	0			D3-NMeFOSAA - ISTD	7.290	145913	-	ng/ml	✔	1	AMS 05/29/24
570.0 -> 418.9				*								
NMeFOSE	9.907	0			D7-NMeFOSE - ISTD	9.890	207561	-	ng/ml	✔	1	AMS 05/29/24
PFBA	2.879	0			13C4-PFBA - ISTD	2.631	266584	-	ng/ml	✔	1	AMS 05/29/24
PFBS	4.999	0			13C3-PFBS - ISTD	5.137	59541	-	ng/ml	✔	1	AMS 05/29/24
298.9 -> 98.8				*								
PFDA	7.229	0			13C6-PFDA - ISTD	7.278	69827	-	ng/ml	✔	1	AMS 05/29/24
513.0 -> 219.0				*								
PFDoA	8.170	0			13C2-PFDoA - ISTD	8.153	67849	-	ng/ml	✔	1	AMS 05/29/24
613.0 -> 319.0				*								
PFDoS	9.222	0			13C8-PFOS - ISTD	7.508	36447	-	ng/ml	✔	1	AMS 05/29/24
698.9 -> 99.0				*								
PFDS	8.229	0			13C8-PFOS - ISTD	7.508	36447	-	ng/ml	✔	1	AMS 05/29/24
599.0 -> 98.8				*								
PFEESA	5.413	0			13C5-PFHxA - ISTD	5.117	141854	-	ng/ml	✔	1	AMS 05/29/24
315.0 -> 83.0				*								
PFHpA	5.806	0			13C4-PFHpA - ISTD	5.805	186869	-	ng/ml	✔	1	AMS 05/29/24
362.9 -> 169.0				*								
PFHpS	7.085	0			13C8-PFOS - ISTD	7.508	36447	-	ng/ml	✔	1	AMS 05/29/24
449.0 -> 98.8				*								

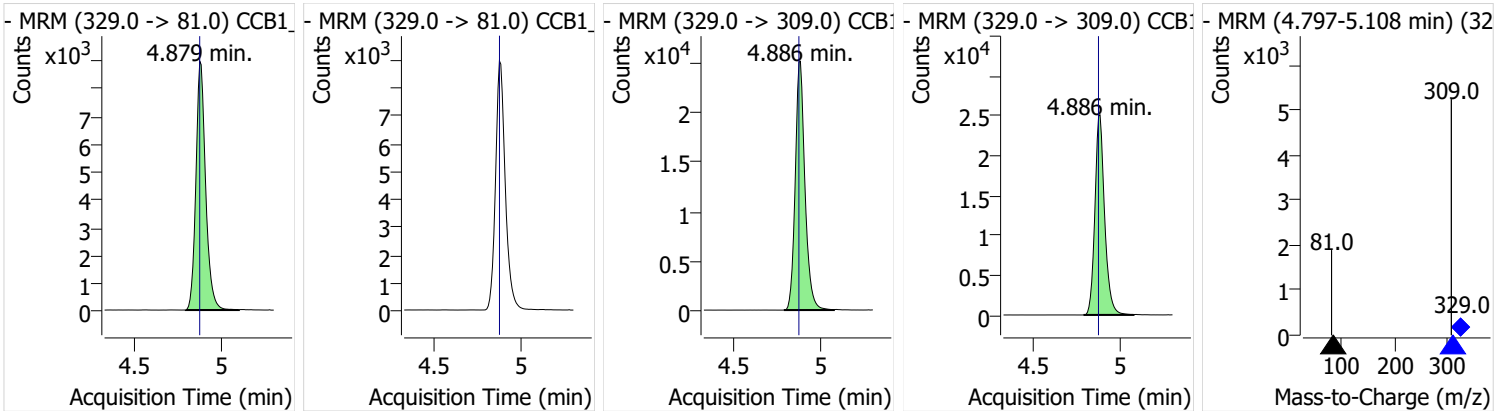
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFHxA	5.128	0			13C5-PFHxA - ISTD	5.117	141854	-	ng/ml	✔	1	AMS 05/29/24
313.0 -> 118.9				*								
PFHxS	6.529	0			13C3-PFHxS - ISTD	6.529	40197	-	ng/ml	✔	1	AMS 05/29/24
398.9 -> 99.0				*								
PFMBA	4.530	0			13C5-PFPeA - ISTD	4.220	173269	-	ng/ml	✔	1	AMS 05/29/24
PFMPA	3.415	0			13C5-PFPeA - ISTD	4.220	173269	-	ng/ml	✔	1	AMS 05/29/24
PFNA	6.829	0			13C9-PFNA - ISTD	6.828	72835	-	ng/ml	✔	1	AMS 05/29/24
463.0 -> 219.0				*								
PFNS	7.926	0			13C8-PFOS - ISTD	7.508	36447	-	ng/ml	✔	1	AMS 05/29/24
549.0 -> 98.8				*								
PFOA	6.354	0			13C8-PFOA - ISTD	6.362	165517	-	ng/ml	✔	1	AMS 05/29/24
413.0 -> 169.0				*								
PFOS	7.510	0			13C8-PFOS - ISTD	7.508	36447	-	ng/ml	✔	1	AMS 05/29/24
499.0 -> 99.0				*								
PFOSA	8.718	0			13C8-PFOSA - ISTD	8.717	68594	-	ng/ml	✔	1	AMS 05/29/24
497.9 -> 478.0				*								
PFPeA	4.214	0			13C5-PFPeA - ISTD	4.220	173269	-	ng/ml	✔	1	AMS 05/29/24
263.0 -> 69.0				*								
PFPeS	5.790	0			13C3-PFHxS - ISTD	6.529	40197	-	ng/ml	✔	1	AMS 05/29/24
349.0 -> 98.9				*								
PFTeDA	8.909	0			13C2-PFTeDA - ISTD	8.967	85960	-	ng/ml	✔	1	AMS 05/29/24
713.0 -> 168.9				*								
PFTrDA	8.590	0			13C2-PFDoA - ISTD	8.153	67849	-	ng/ml	✔	1	AMS 05/29/24
663.0 -> 168.9				*								
PFUnA	7.759	0			13C7-PFUnA - ISTD	7.717	66494	-	ng/ml	✔	1	AMS 05/29/24
563.0 -> 269.1				*								
TDCA	5.589	4	2.01					-	ng/ml			
499.0 -> 99.0			8.49	***200.0**								
13C2-8:2FTS	7.055	49049	20938.22		18O2-PFHxS	6.528	36815	4.8785	ng/ml			
529.0 -> 81.0			7913.27	47.3								
13C2-4:2FTS	4.886	99710	35051.96		18O2-PFHxS	6.528	36815	5.3200	ng/ml			
329.0 -> 81.0			7669.25	35.6								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
13C2-6:2FTS	6.147	85023	21169.45		18O2-PFHxS	6.528	36815	5.1037	ng/ml			
429.0 -> 81.0			4544.97	31.4								
13C5-PFHxA	5.117	141854	13884.45		13C2-PFHxA	5.118	124790	2.6829	ng/ml			
318.0 -> 120.0			181.46	1.4								
13C6-PFDA	7.278	69827	2565.96		13C2-PFDA	7.278	65515	1.3385	ng/ml			
13C7-PFUnA	7.717	66494	10345.22		13C2-PFDA	7.278	65515	1.3633	ng/ml			
13C8-PFOA	6.362	165517	48586.73		13C4-PFOA	6.362	19139	2.6430	ng/ml			
13C8-PFOS	7.508	36447	6048.14		13C4-PFOS	7.509	37346	2.6312	ng/ml			
507.0 -> 99.0			2935.57	55.8								
13C8-PFOSA	8.717	68594	595407.39		13C4-PFOS	7.509	37346	2.7405	ng/ml			
13C9-PFNA	6.828	72835	12751.73		13C5-PFNA	6.828	89885	1.3170	ng/ml			
13C5-PFPeA	4.220	173269	13509.91		13C2-PFHxA	5.118	124790	4.4194	ng/ml			
13C2-PFDoA	8.153	67849	15743.24		13C2-PFDA	7.278	65515	1.3478	ng/ml			
13C4-PFHpA	5.805	186869	18361.04		13C2-PFHxA	5.118	124790	2.7092	ng/ml			
13C4-PFBA	2.631	274713	72367.52		13C3-PFBA	2.634	115559	10.8822	ng/ml	✔	3	AMS 05/29/24
13C3-PFHxS	6.529	40197	18713.32		18O2-PFHxS	6.528	36815	2.6605	ng/ml			
402.0 -> 99.0			5792.28	54.2								
13C3-PFBS	5.137	59541	6502.46		18O2-PFHxS	6.528	36815	2.7233	ng/ml			
301.9 -> 98.9			15020.34	37.0								
13C3-HFPODA	5.400	163535	58065.94		13C2-PFHxA	5.118	124790	10.7846	ng/ml			
287.0 -> 185.0			9287.88	41.3								
13C2-PFTeDA	8.967	85960	21810.15		13C2-PFDA	7.278	65515	1.2663	ng/ml			
D9-NEtFOSE	10.236	217759	107594.14		13C4-PFOS	7.509	37346	26.8931	ng/ml			
D3-NMeFOSA	10.051	21846	9158.76		13C4-PFOS	7.509	37346	2.6717	ng/ml			
D3-NMeFOSAA	7.290	145913	23988.40		13C4-PFOS	7.509	37346	5.2572	ng/ml			
D5-NEtFOSA	10.362	22495	9759.06		13C4-PFOS	7.509	37346	2.7024	ng/ml			
D5-NEtFOSAA	7.477	74748	9227.16		13C4-PFOS	7.509	37346	5.3795	ng/ml			
D7-NMeFOSE	9.890	207561	193264.77		13C4-PFOS	7.509	37346	27.4301	ng/ml			

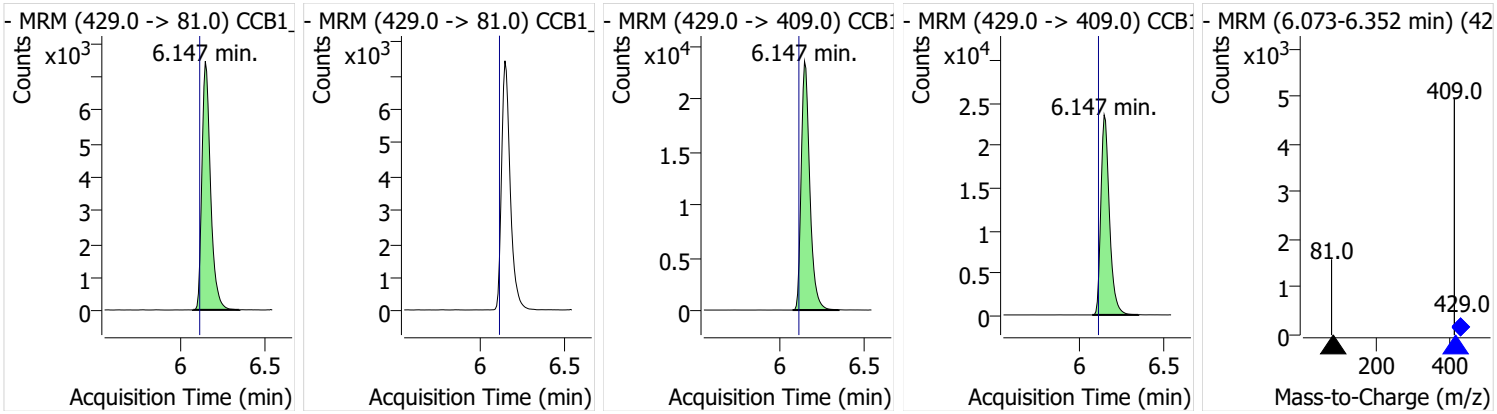
11Cl-PF3OUdS



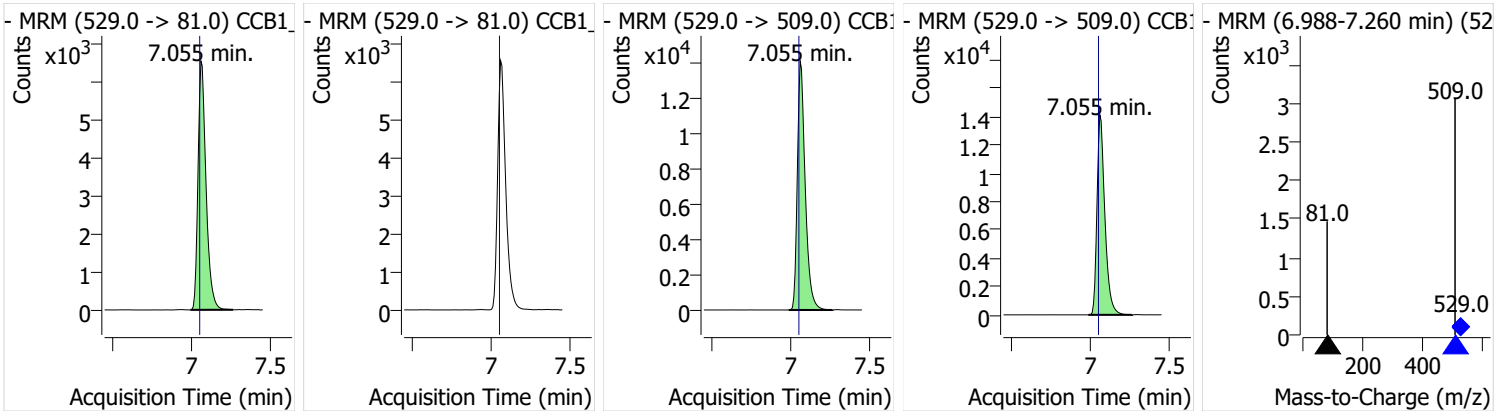
13C2-4:2FTS - ISTD



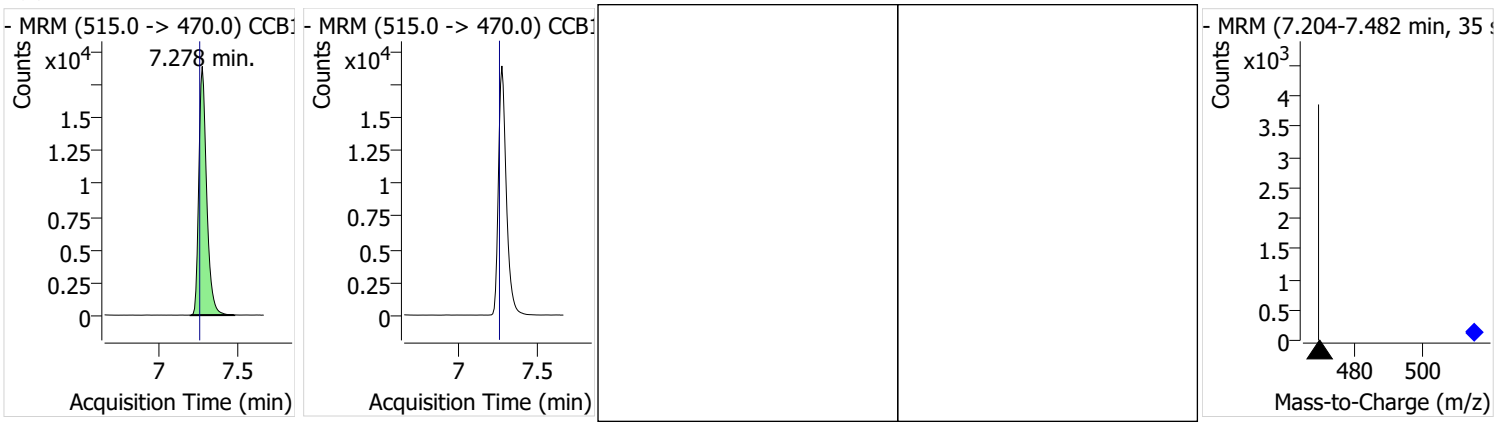
13C2-6:2FTS - ISTD



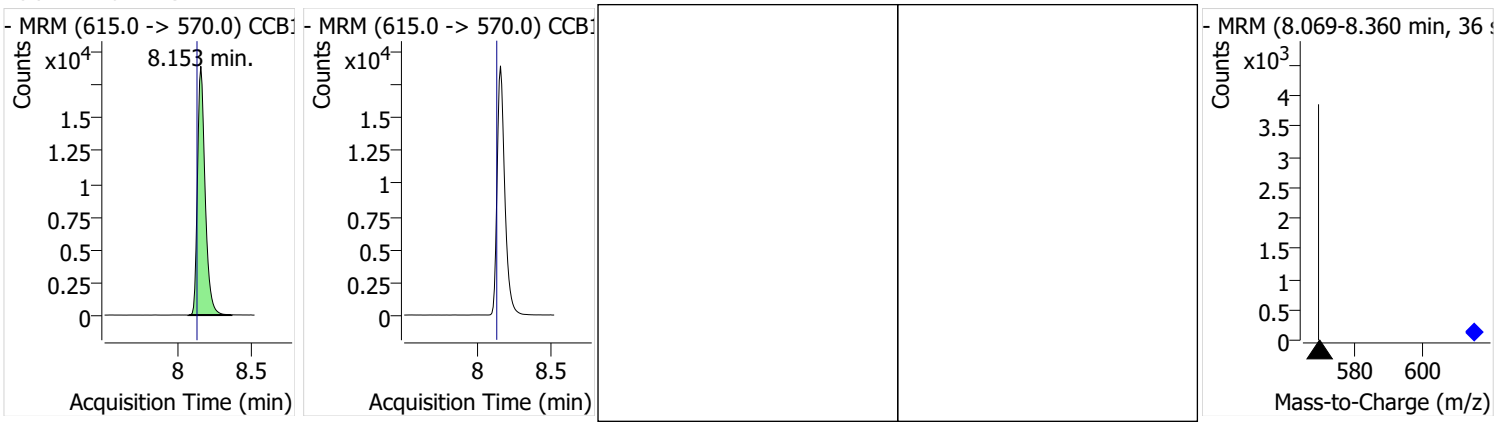
13C2-8:2FTS - ISTD



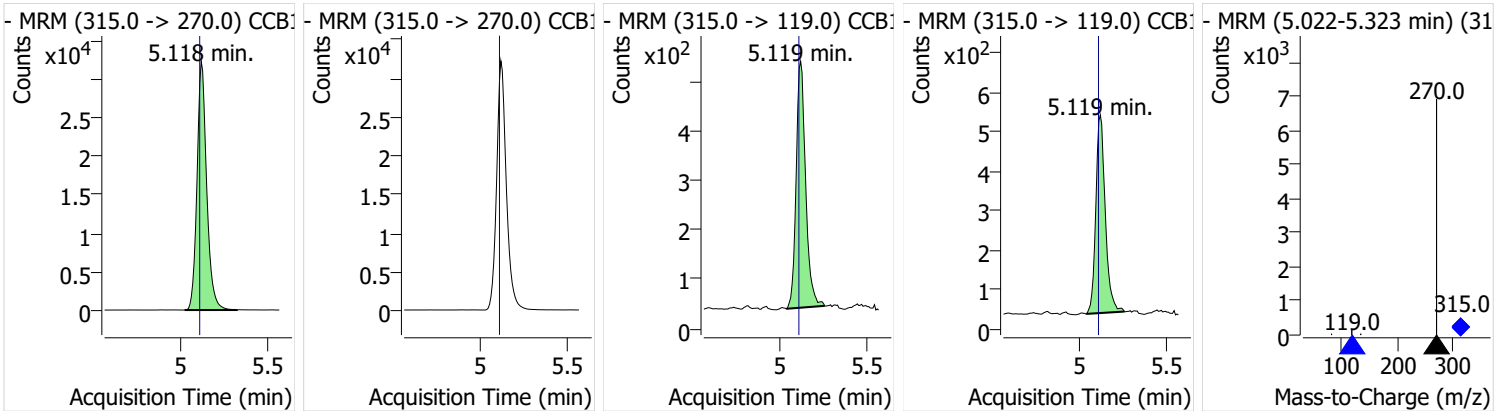
13C2-PFDA



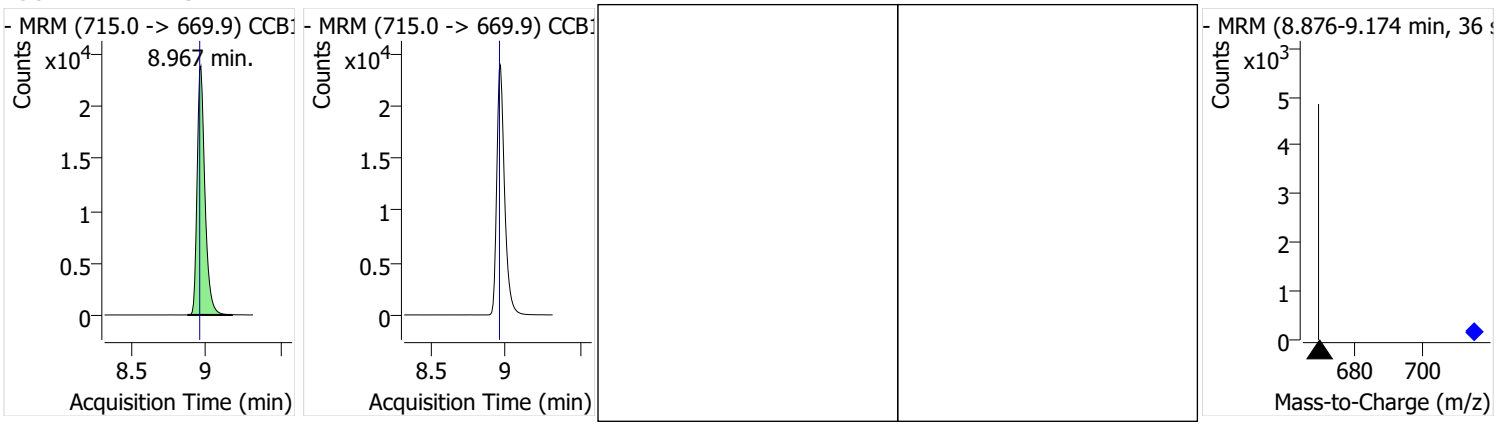
13C2-PFDoA - ISTD



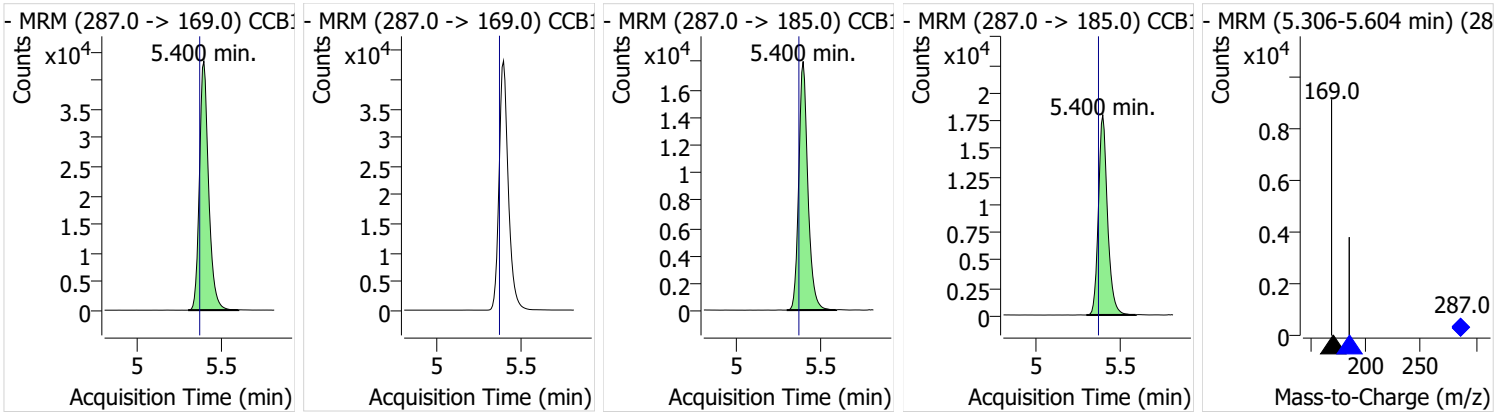
13C2-PFHxA



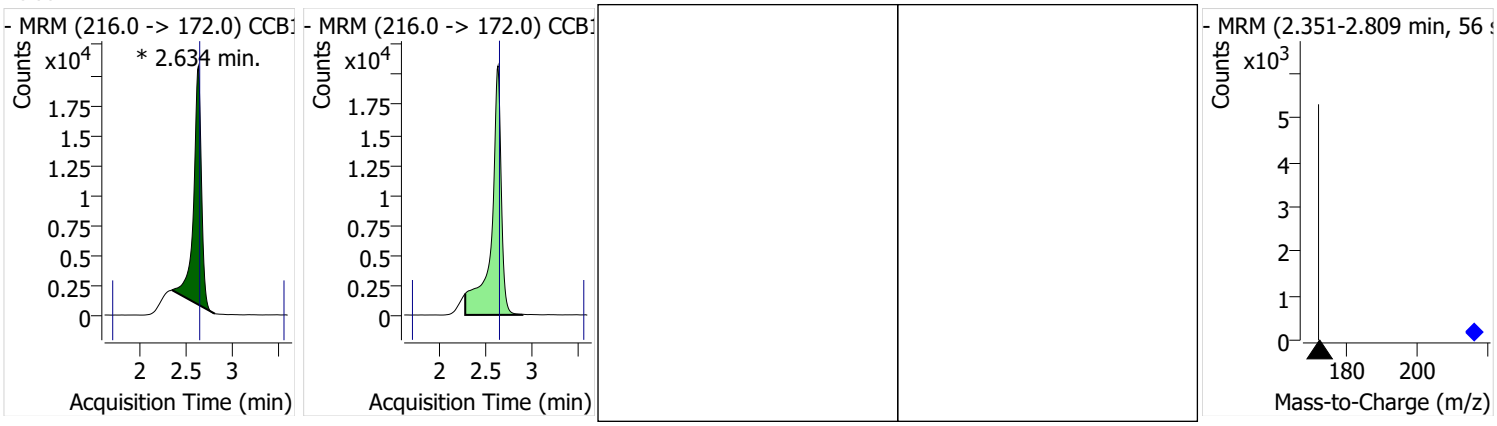
13C2-PFTeDA - ISTD



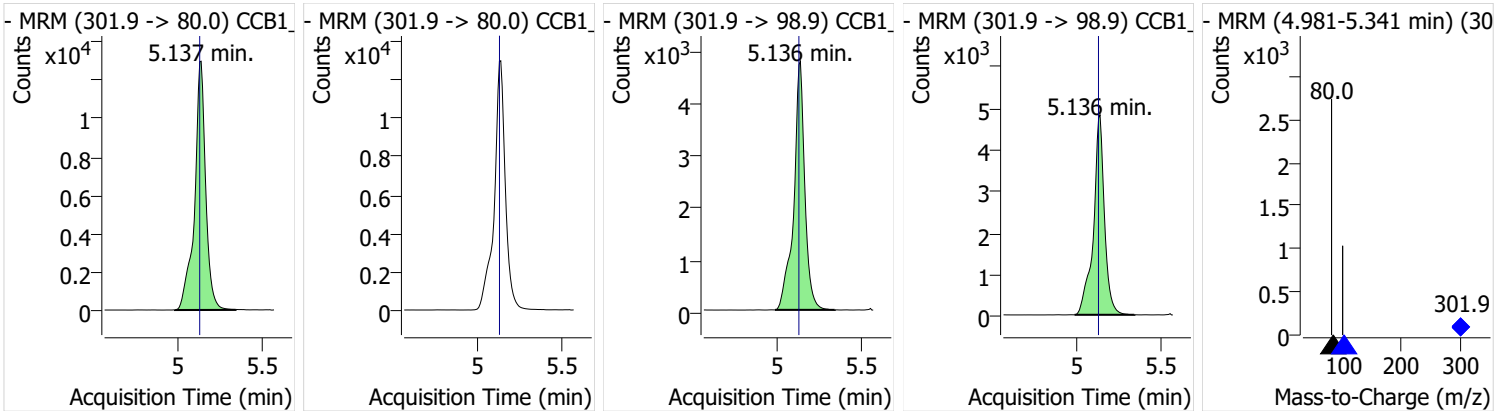
13C3-HFPODA - ISTD



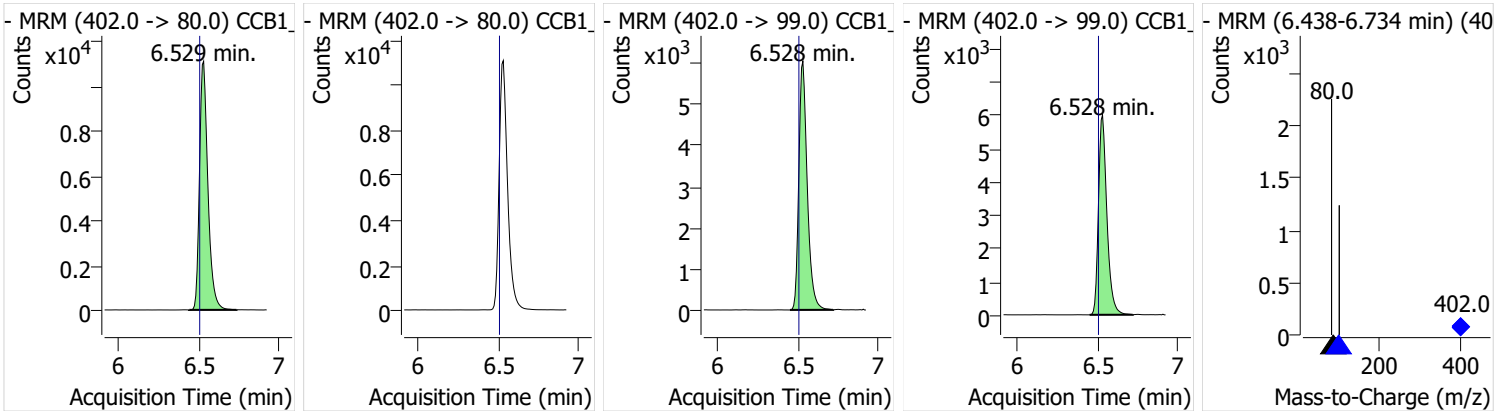
13C3-PFBA



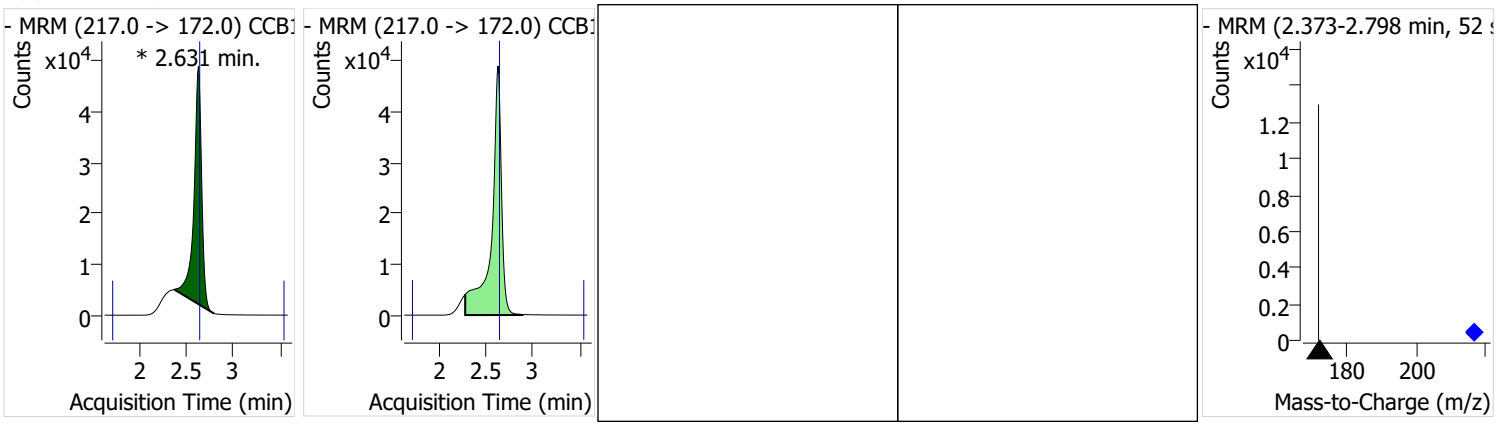
13C3-PFBS - ISTD



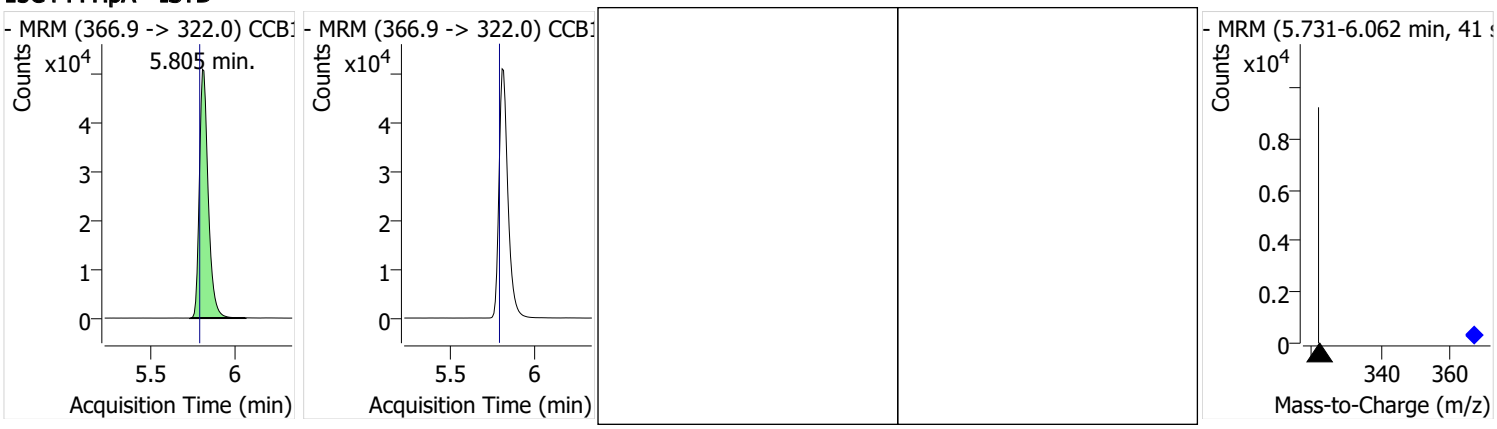
13C3-PFHxS - ISTD



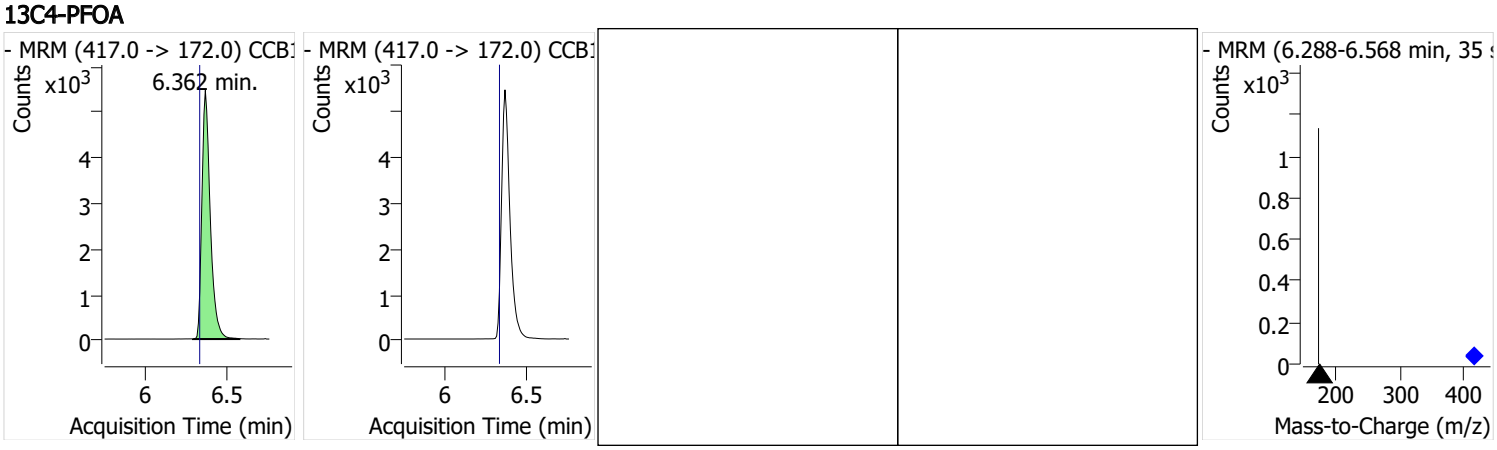
13C4-PFBA - ISTD



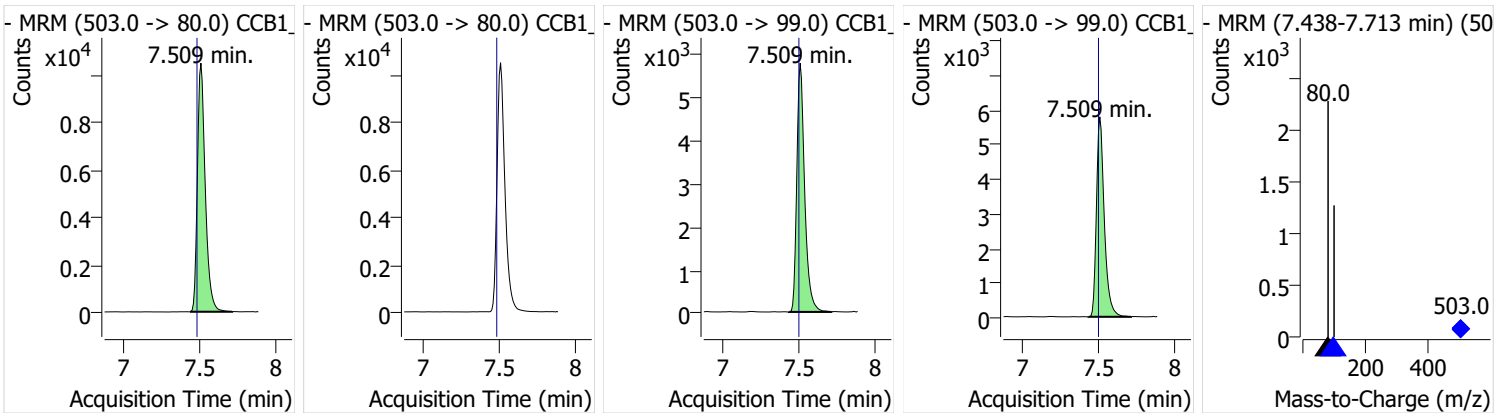
13C4-PFHpA - ISTD



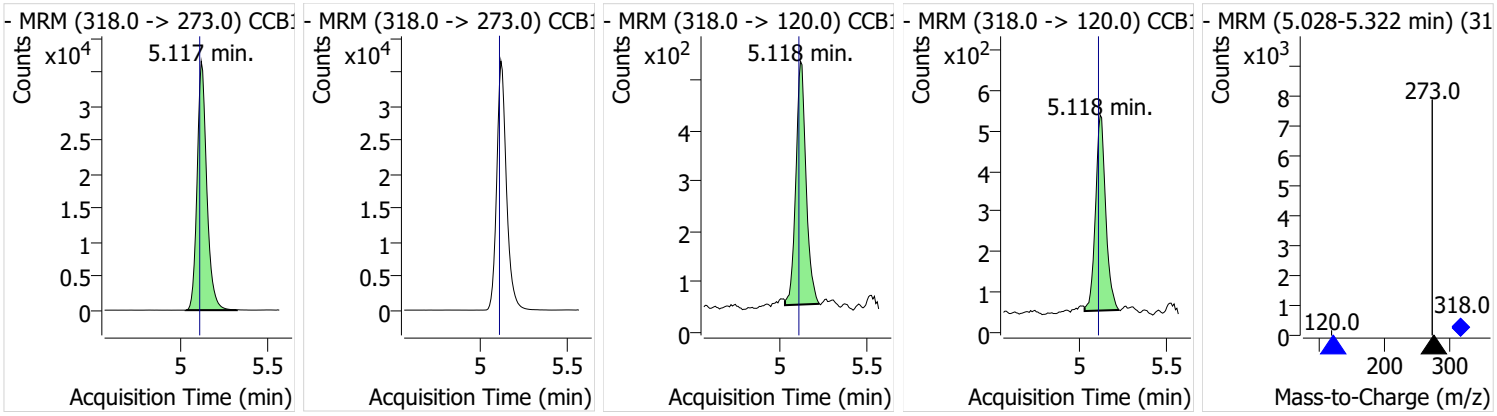
13C4-PFOA



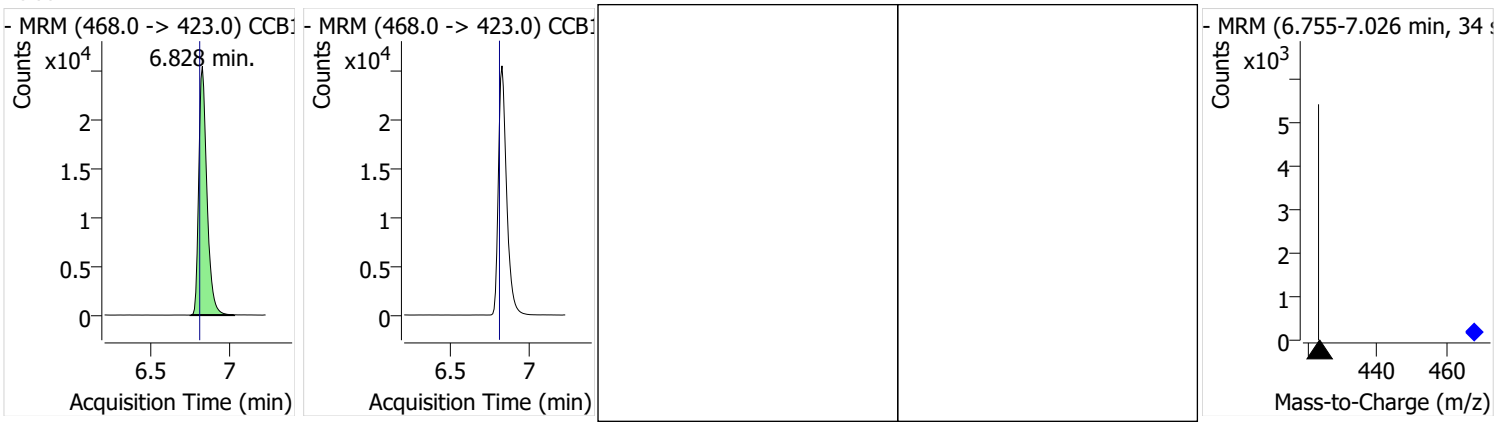
13C4-PFOS



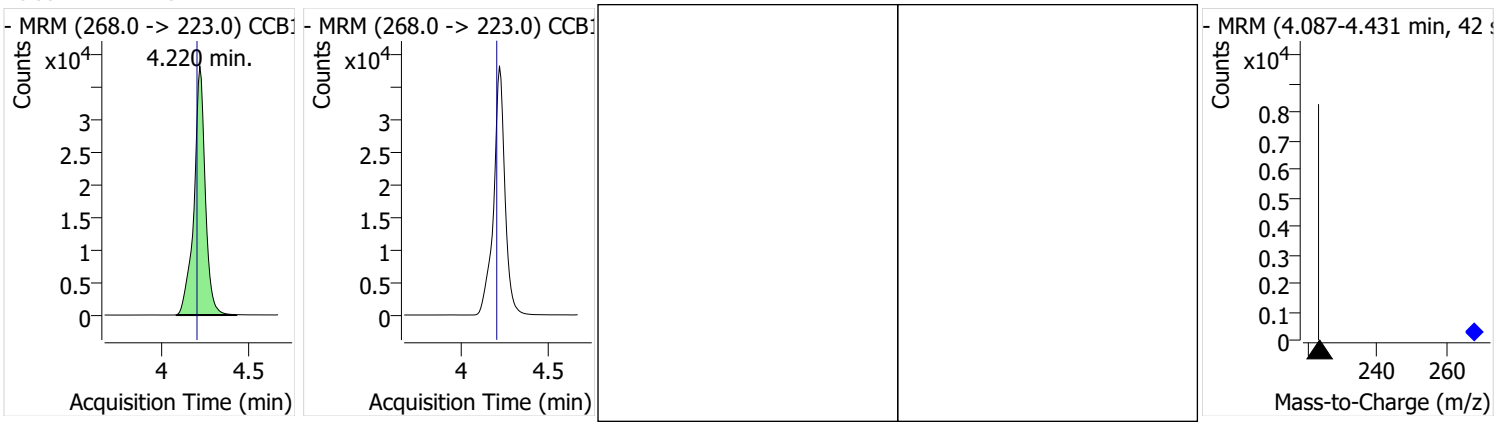
13C5-PFHxA - ISTD



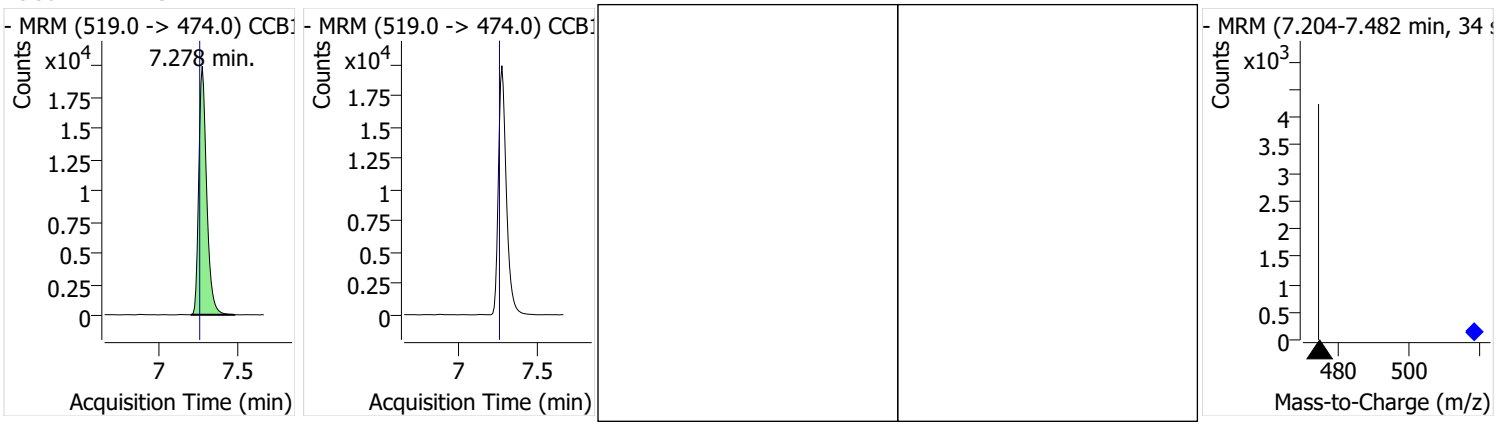
13C5-PFNA



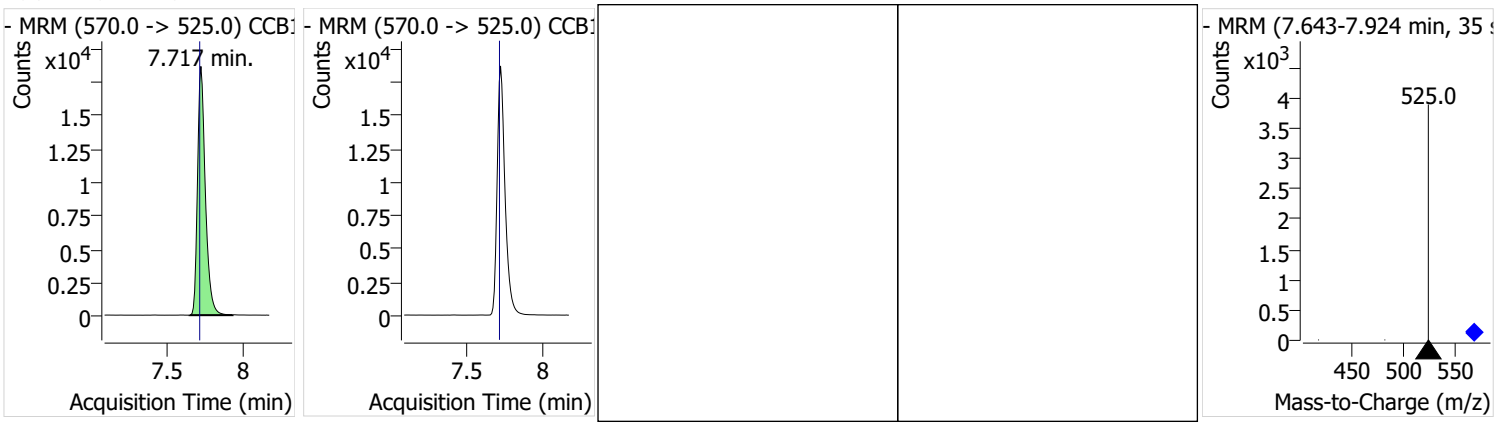
13C5-PFPeA - ISTD



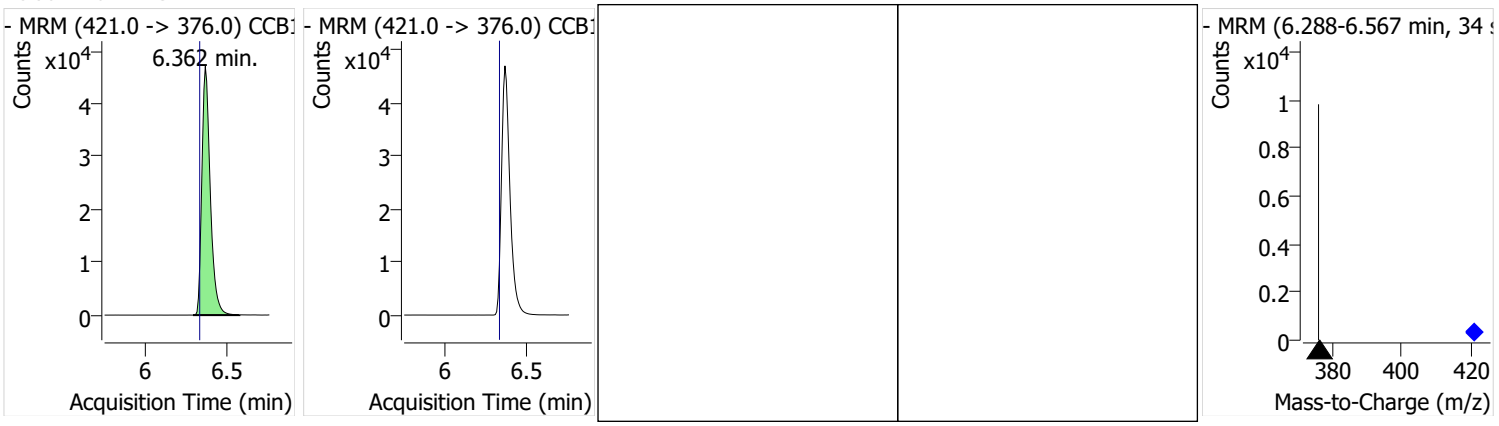
13C6-PFDA - ISTD



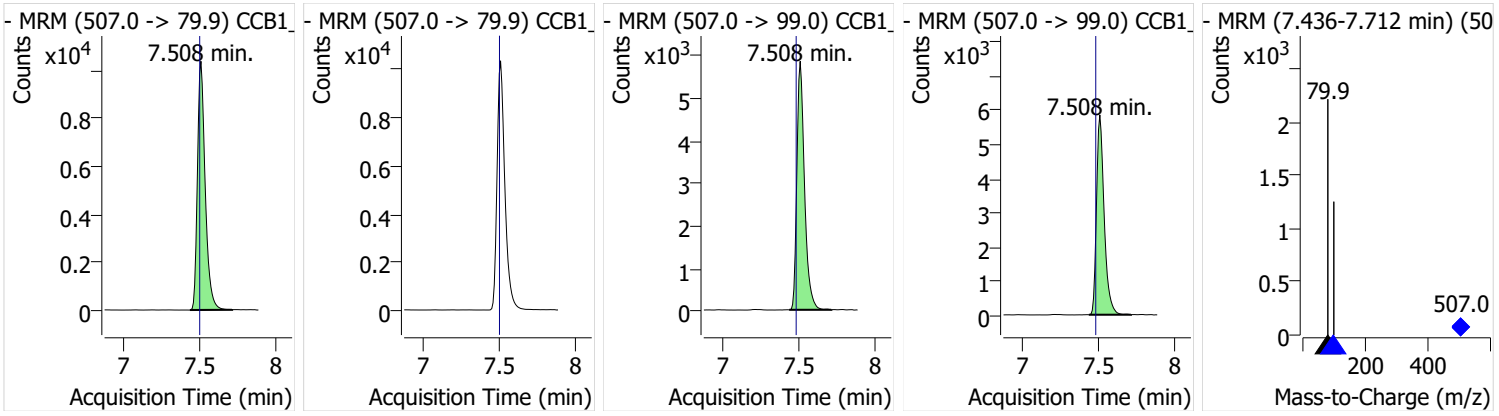
13C7-PFUnA - ISTD



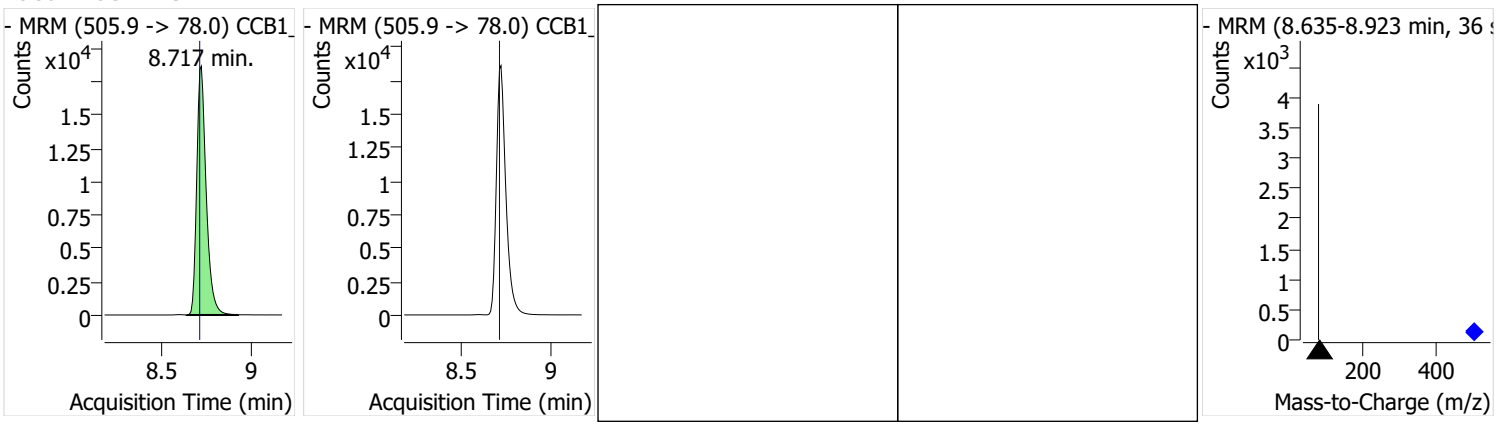
13C8-PFOA - ISTD



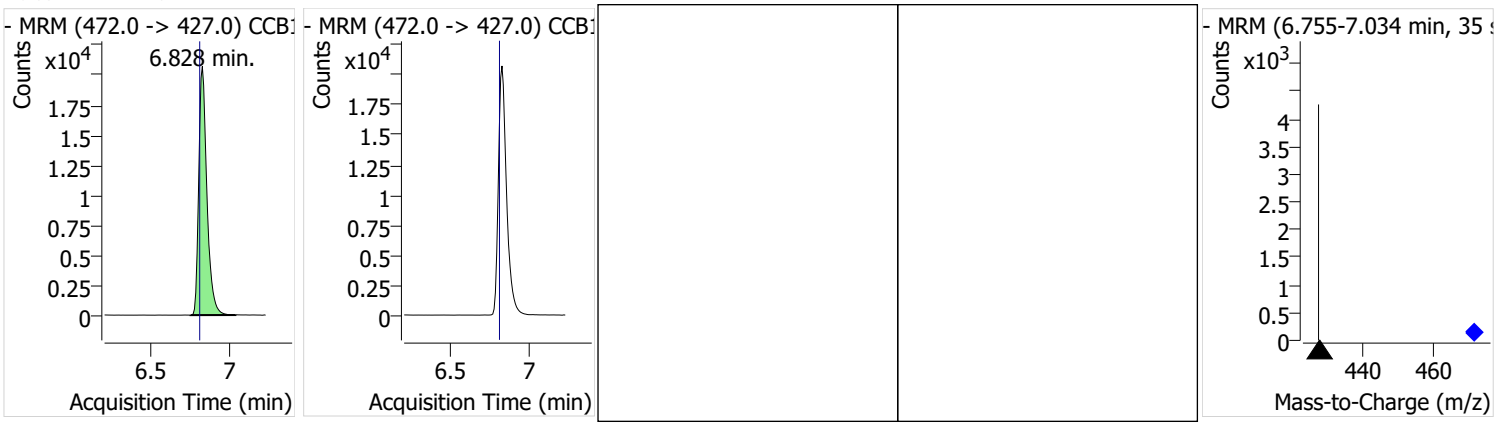
13C8-PFOS - ISTD



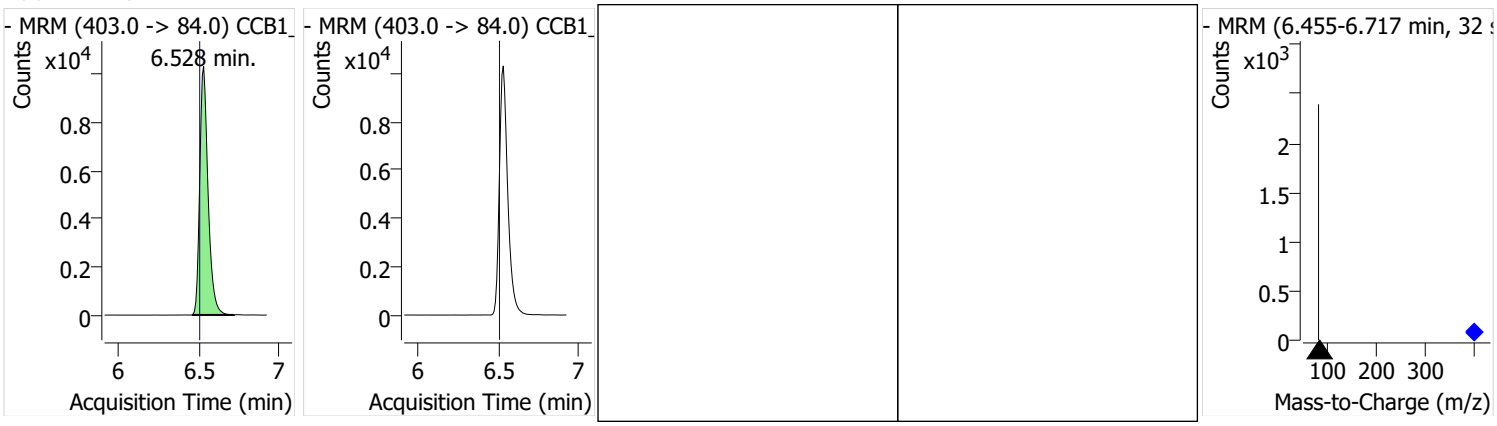
13C8-PFOSA - ISTD



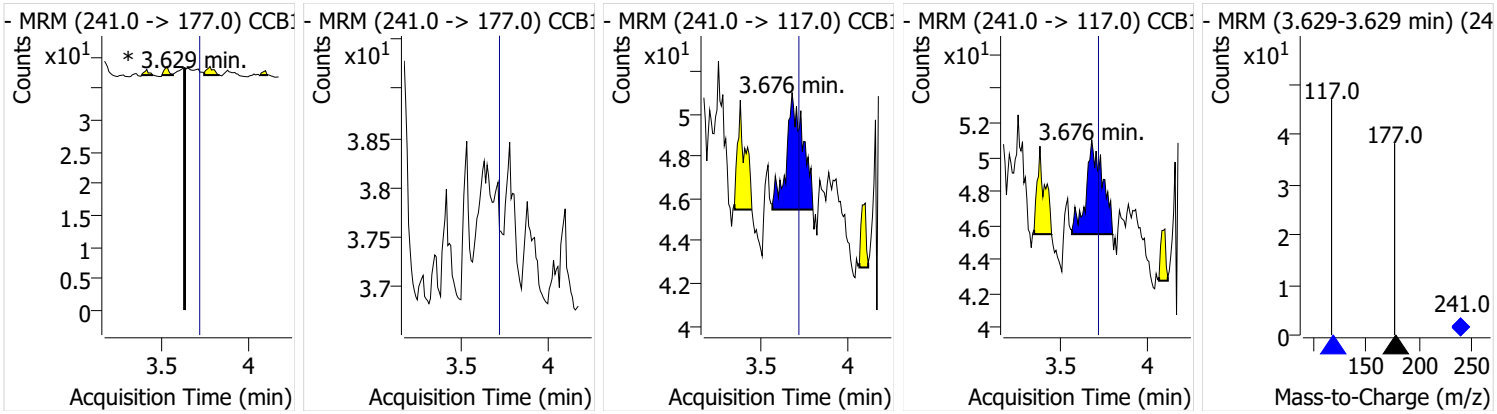
13C9-PFNA - ISTD



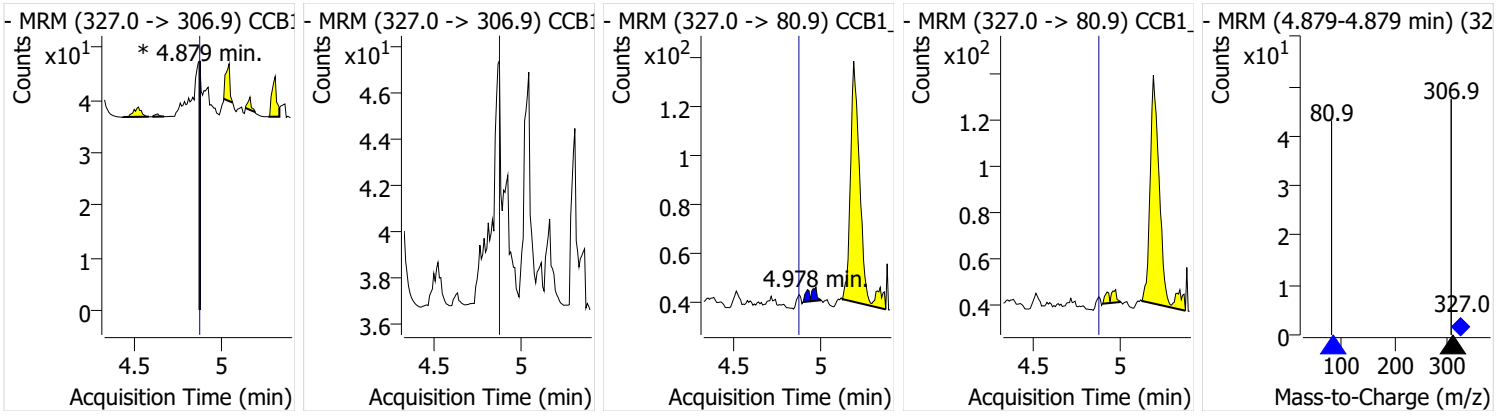
18O2-PFHxS



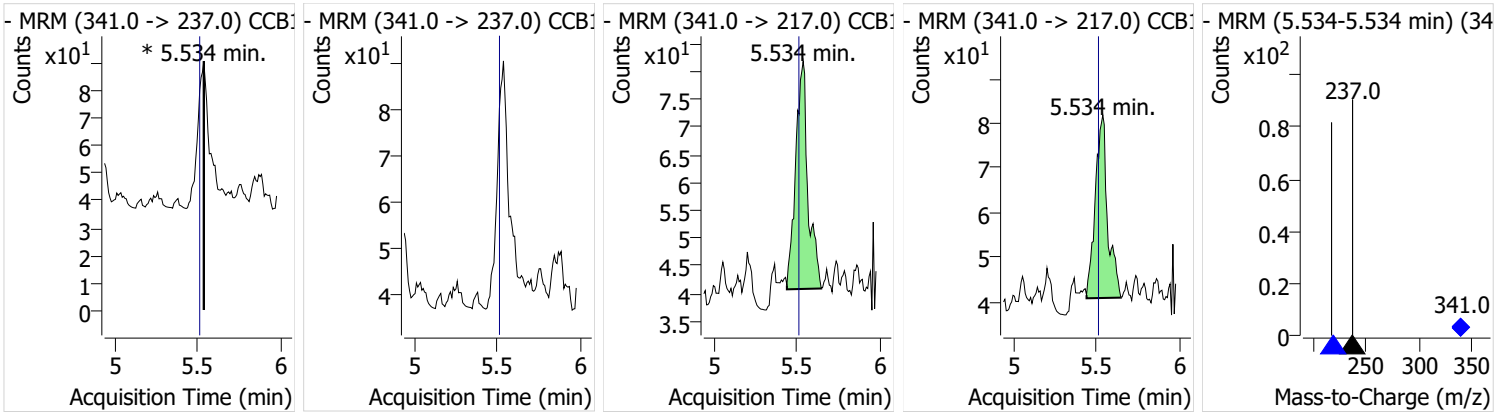
3:3FTCA



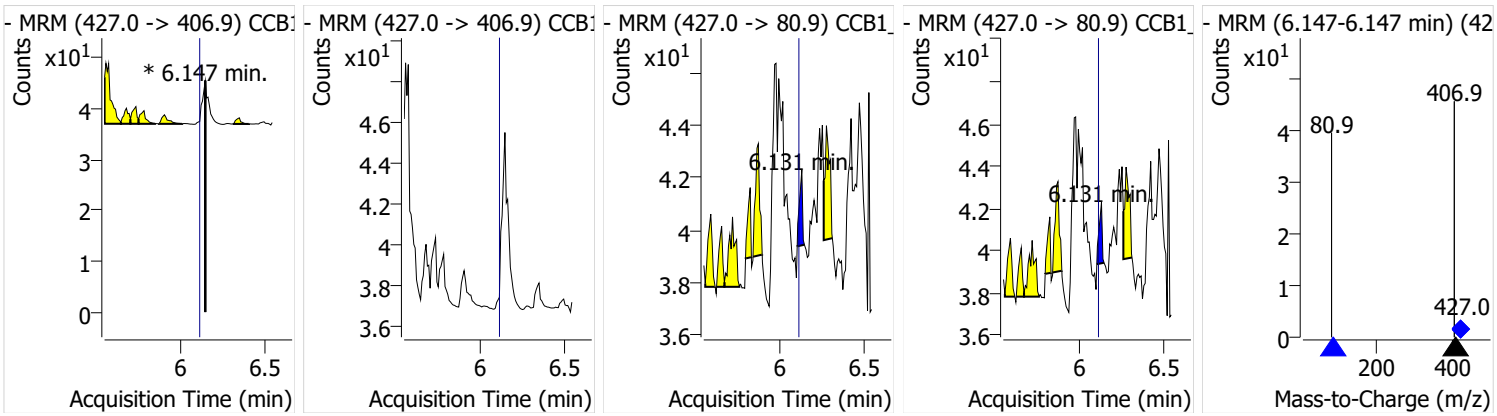
4:2FTS



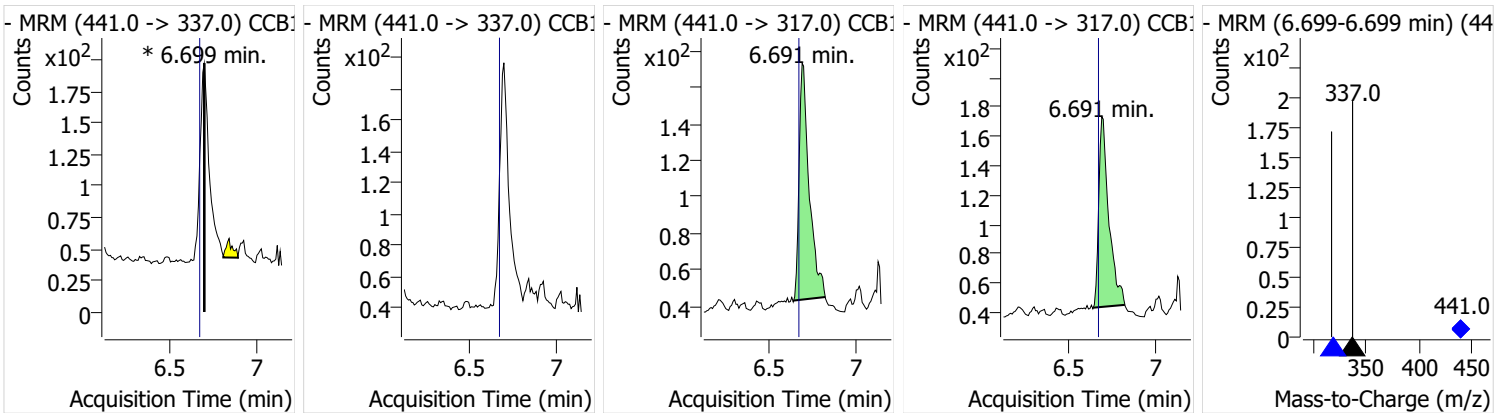
5:3FTCA



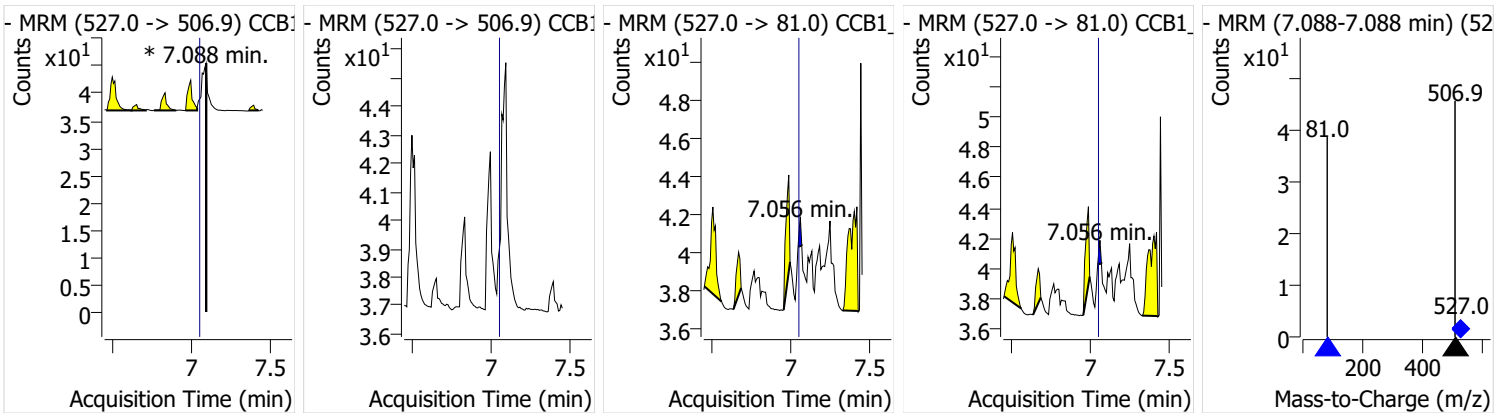
6:2FTS



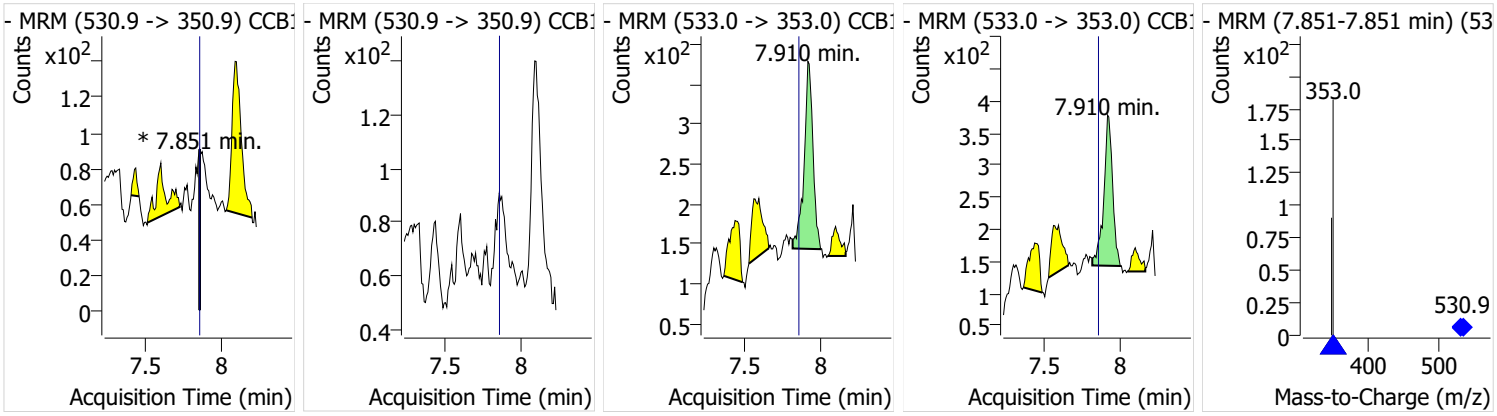
7:3FTCA



8:2FTS



9Cl-PF3ONS



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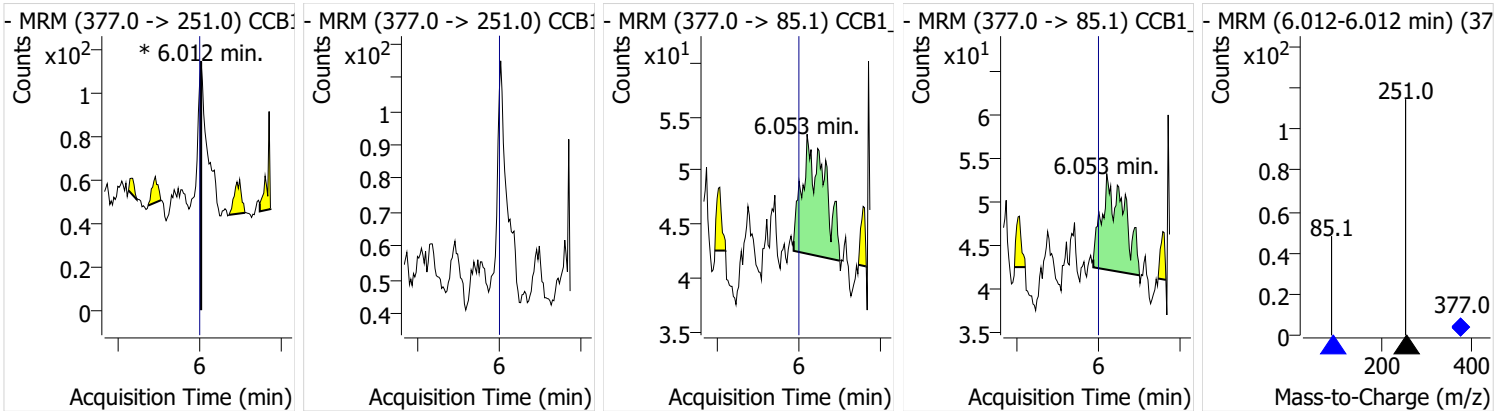
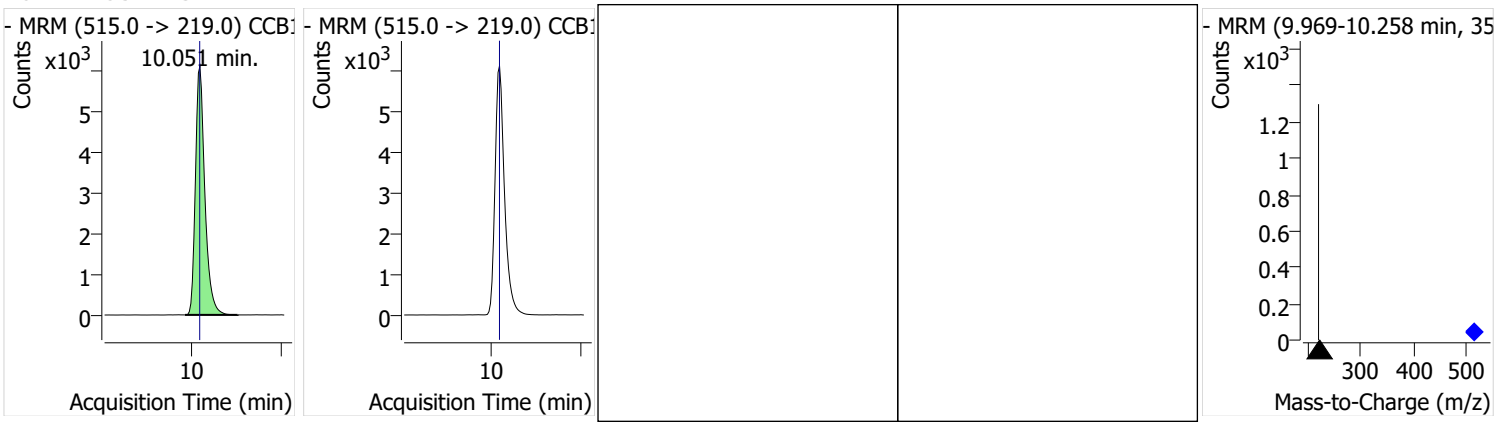
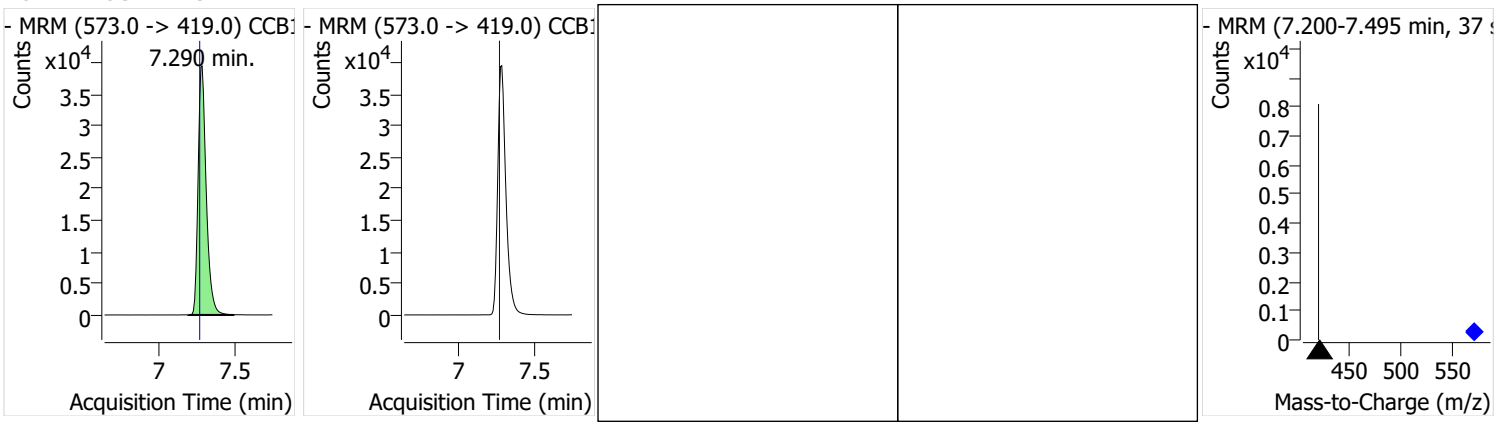


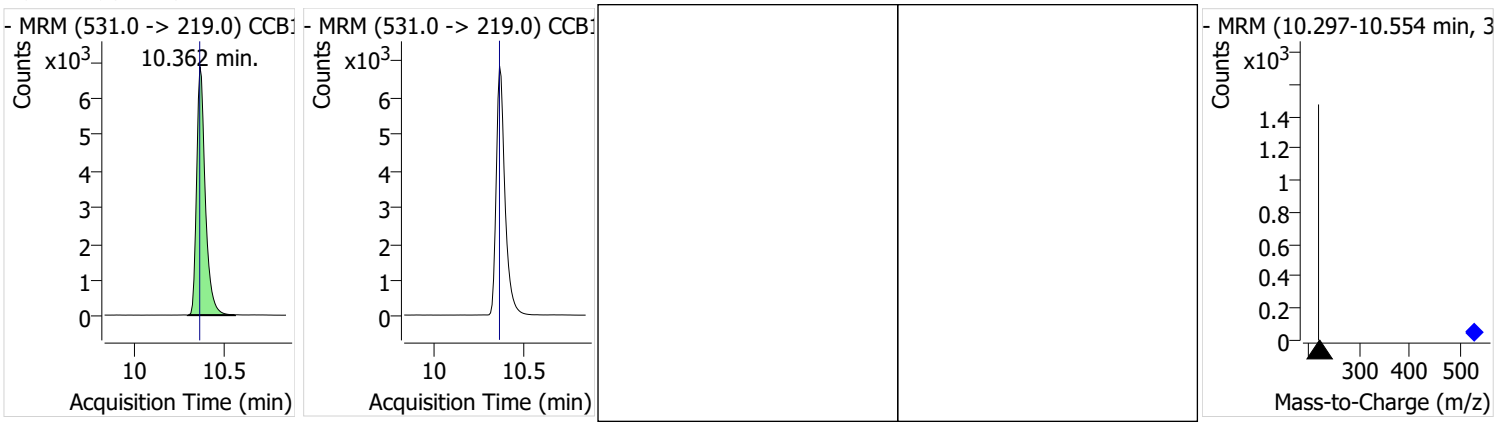
D3-NMeFOSA - ISTD



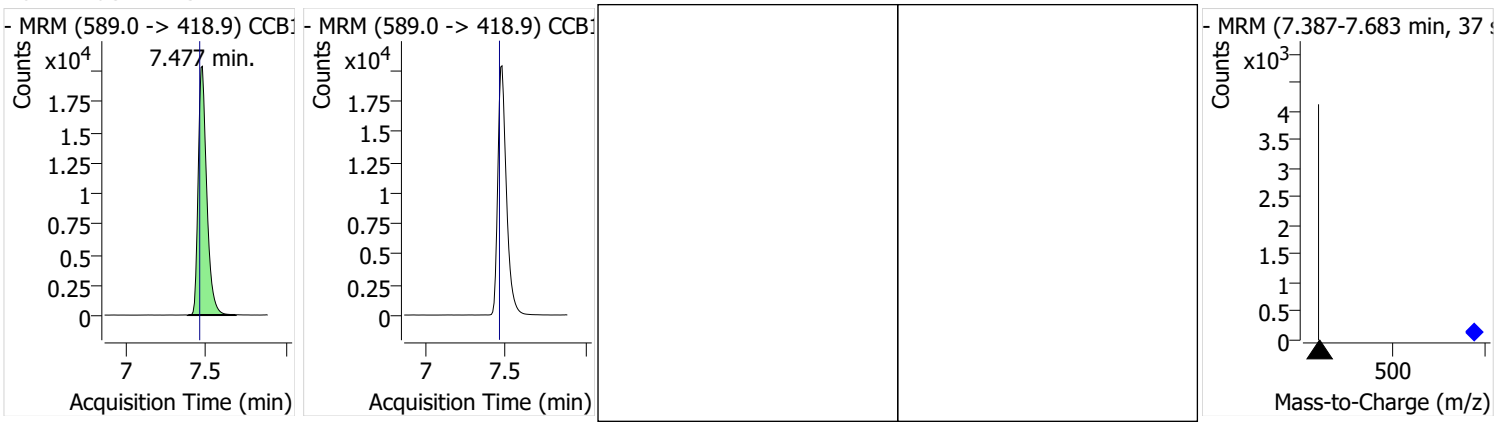
D3-NMeFOSAA - ISTD



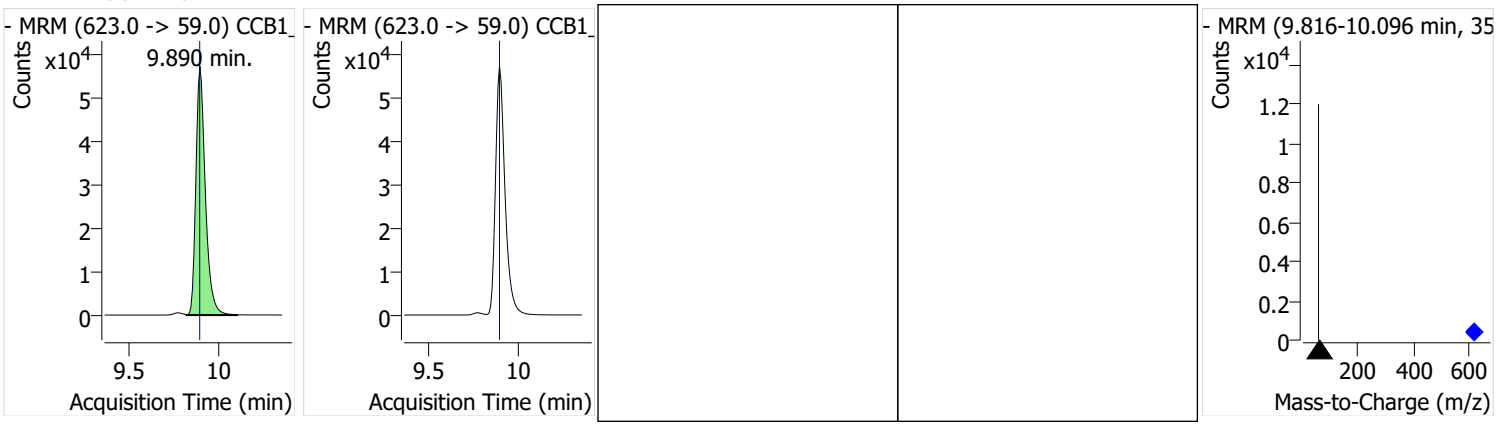
D5-NEtFOSA - ISTD



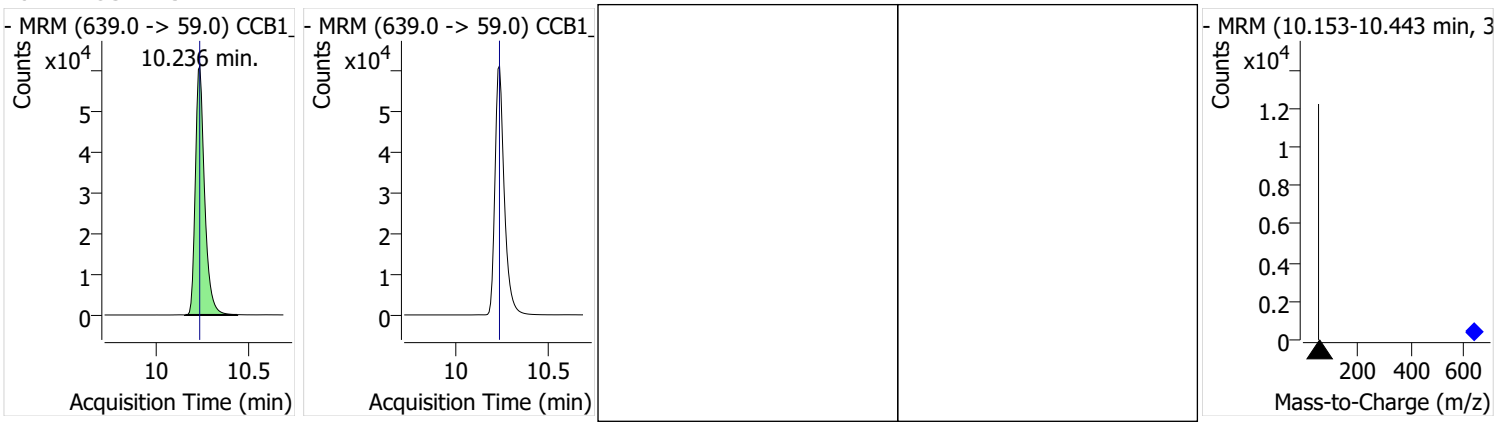
D5-NEtFOSAA - ISTD



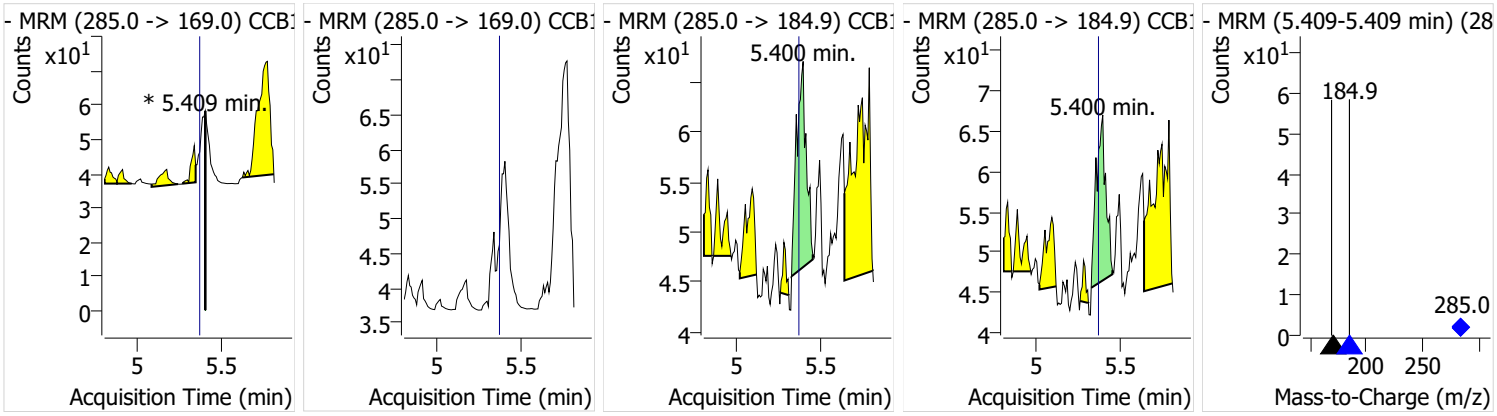
D7-NMeFOSE - ISTD



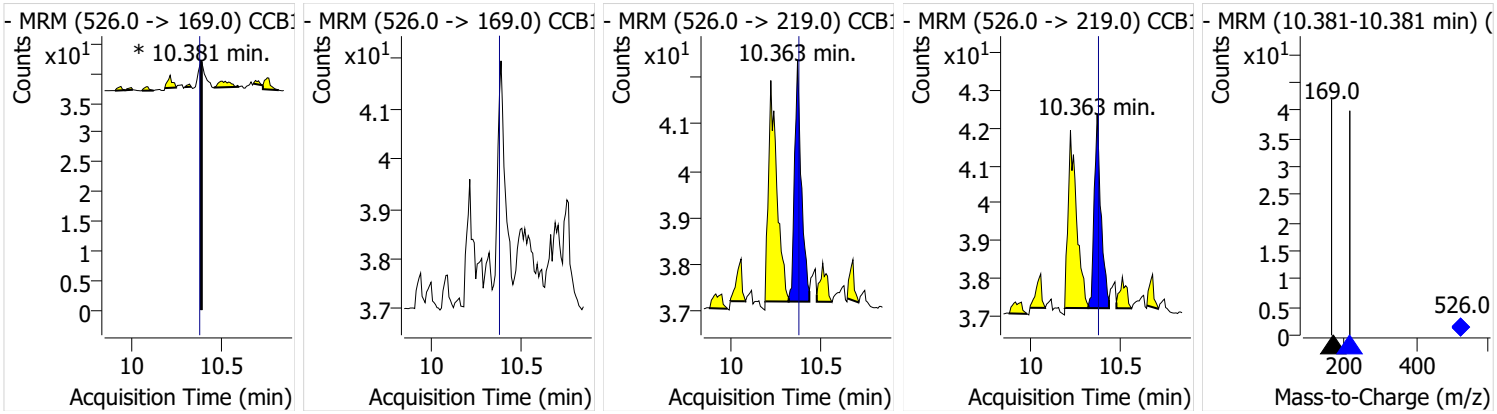
D9-NEtFOSE - ISTD



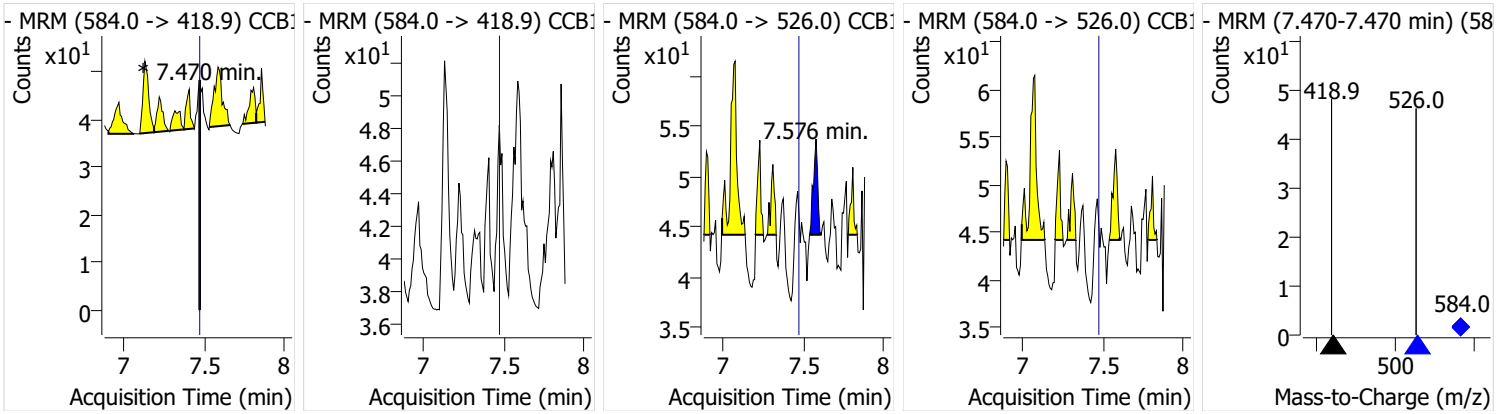
HFPO-DA



NEtFOSA



NEtFOSAA



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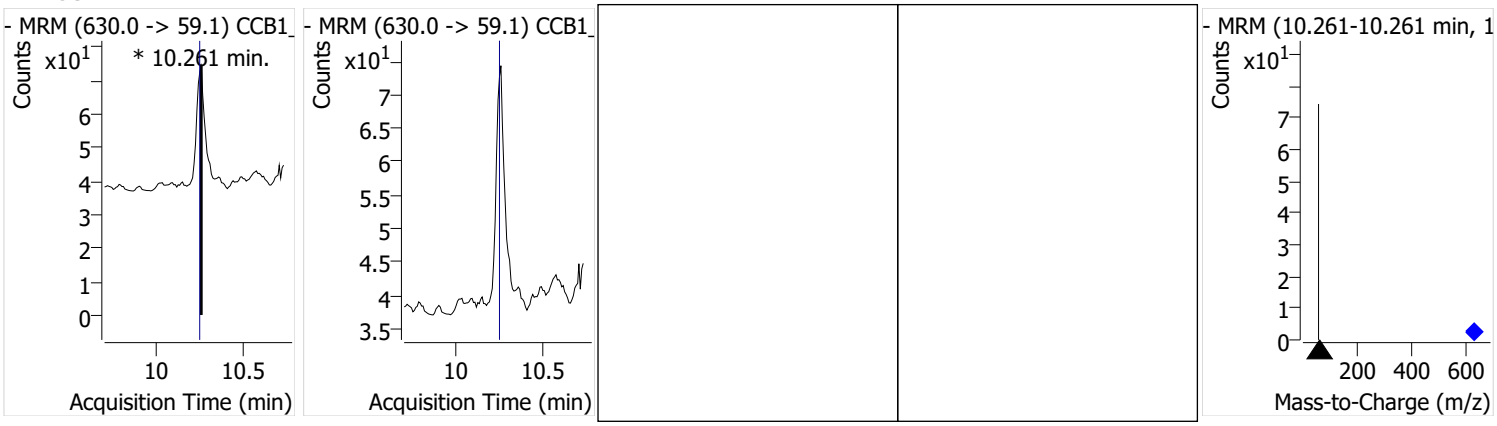
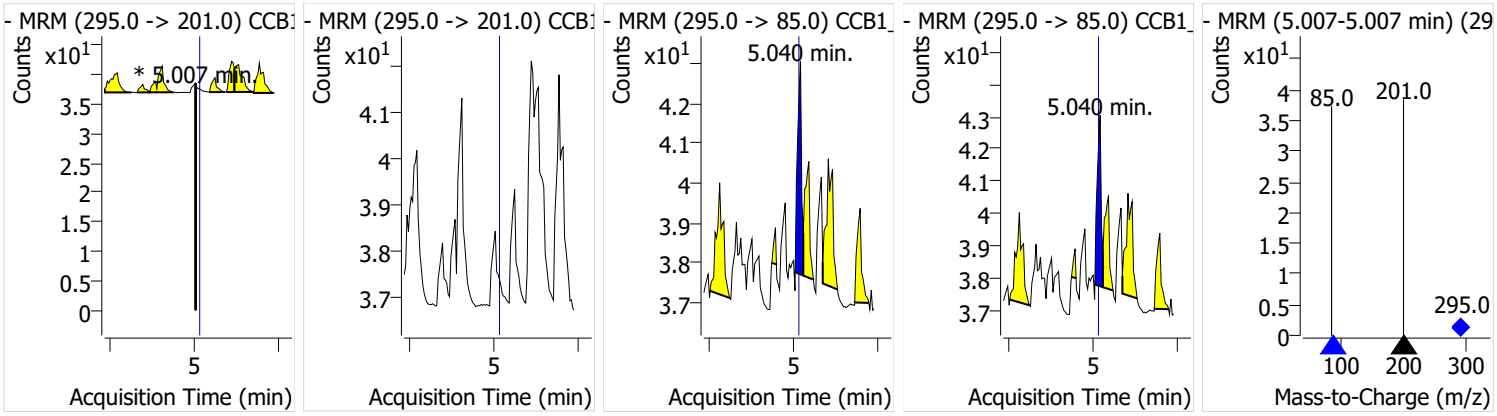
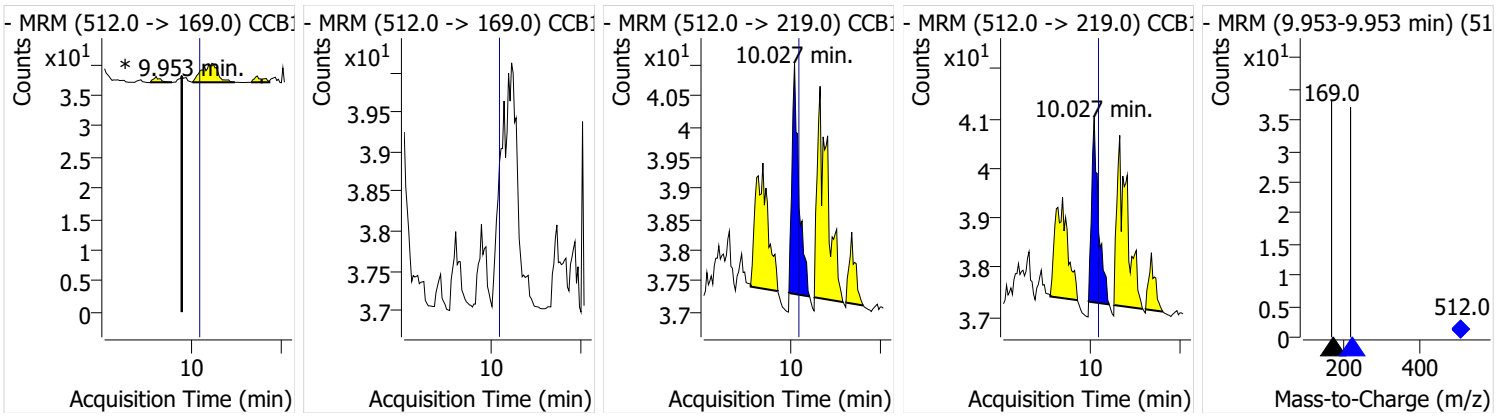


NFDHA



NMeFOSA



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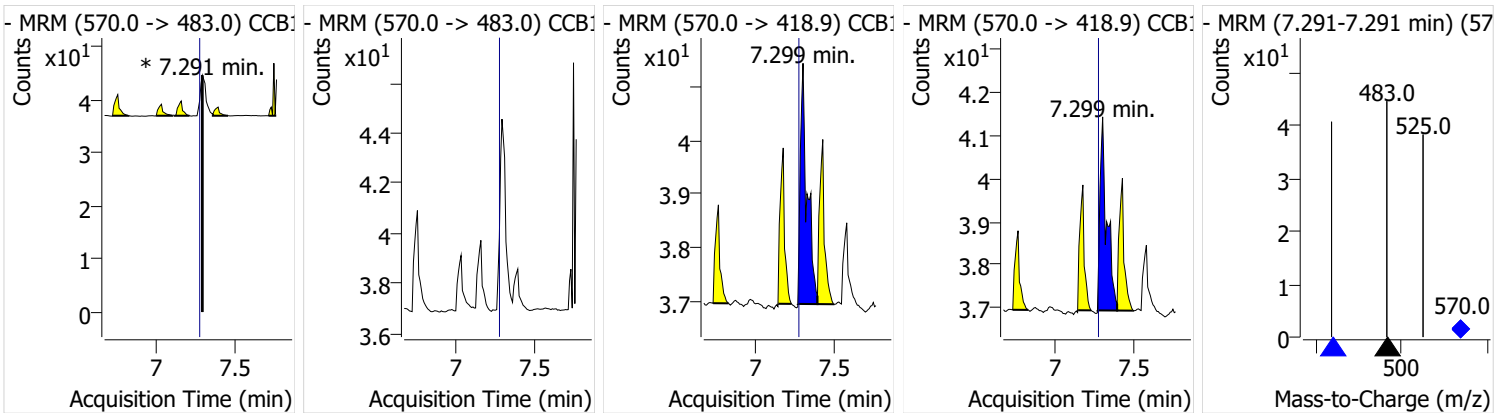
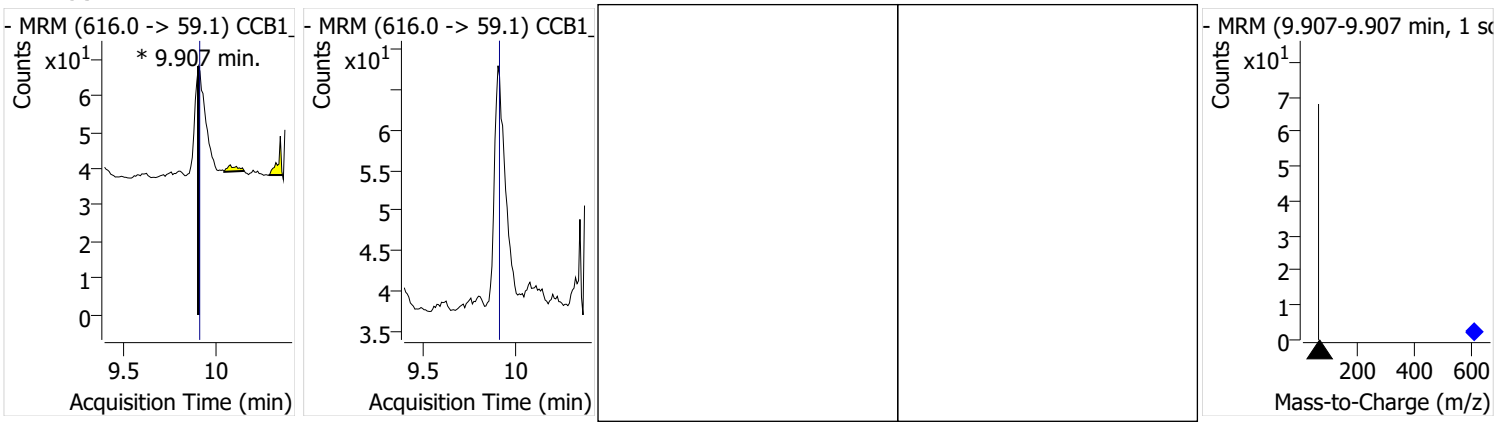
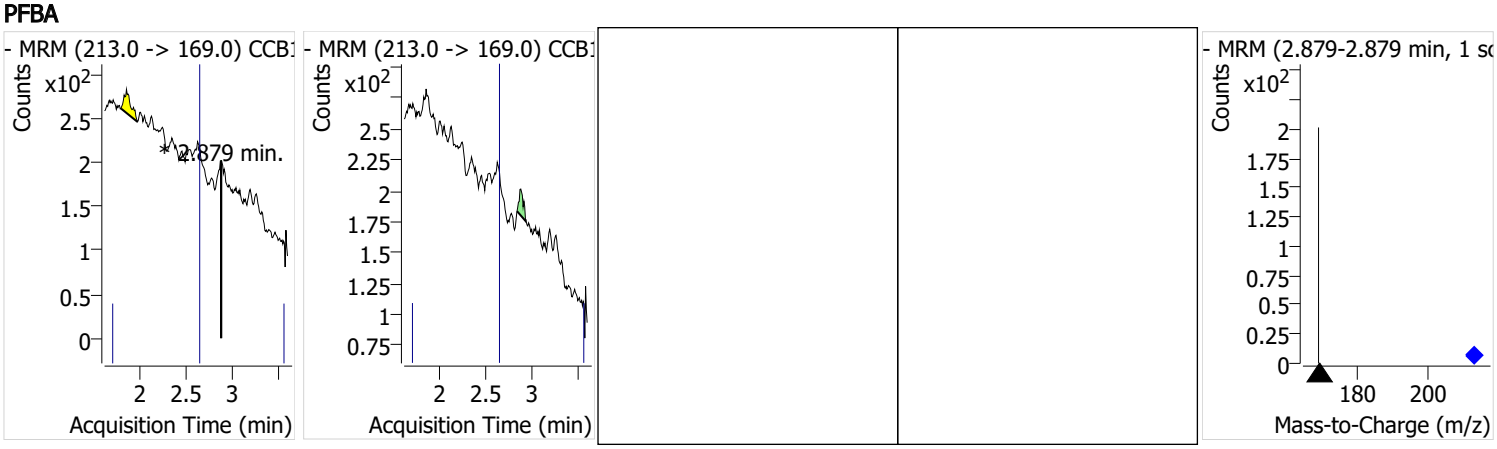


NMeFOSE



PFBA



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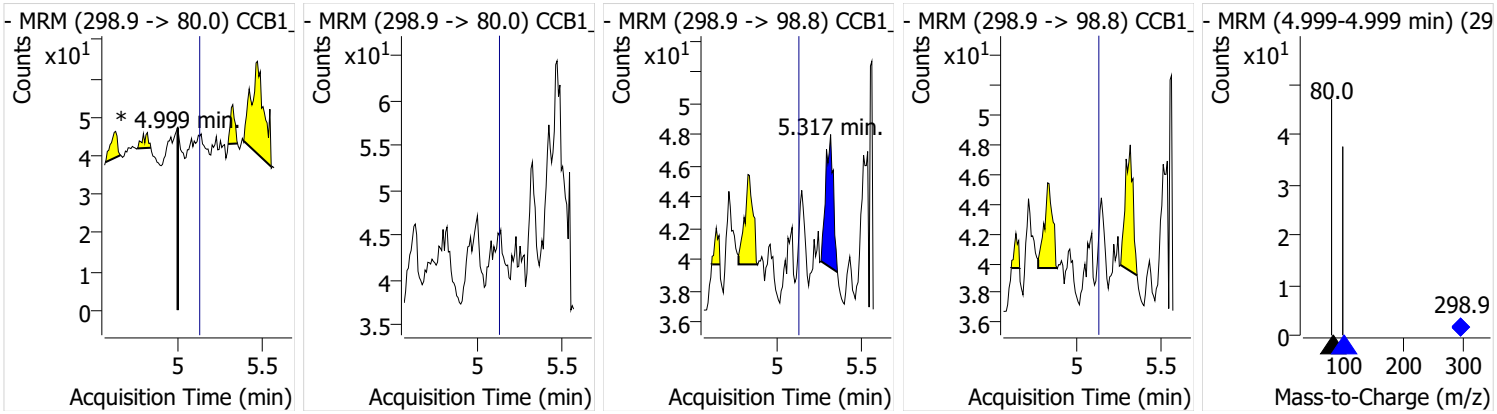

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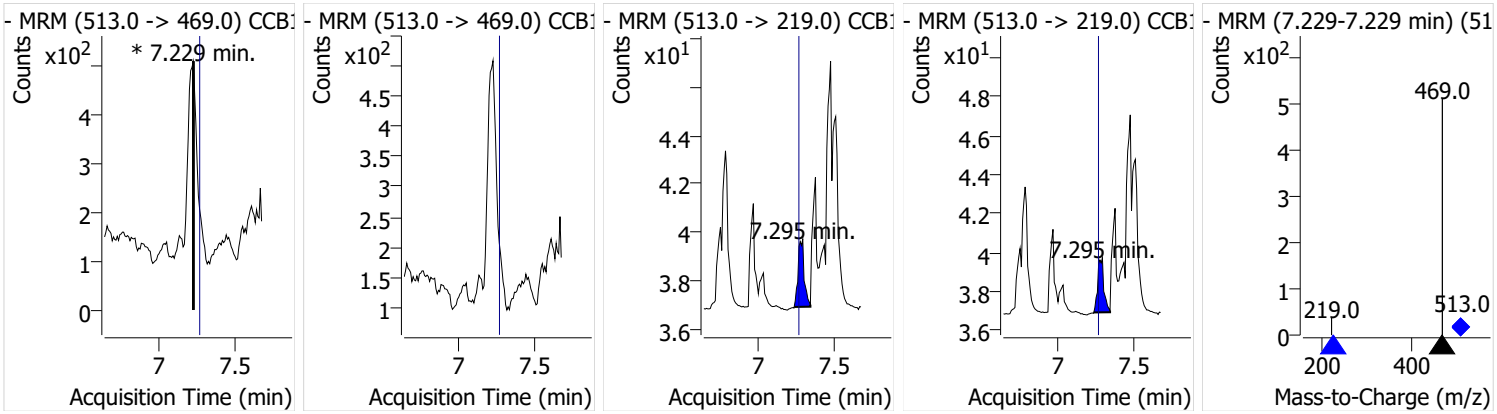

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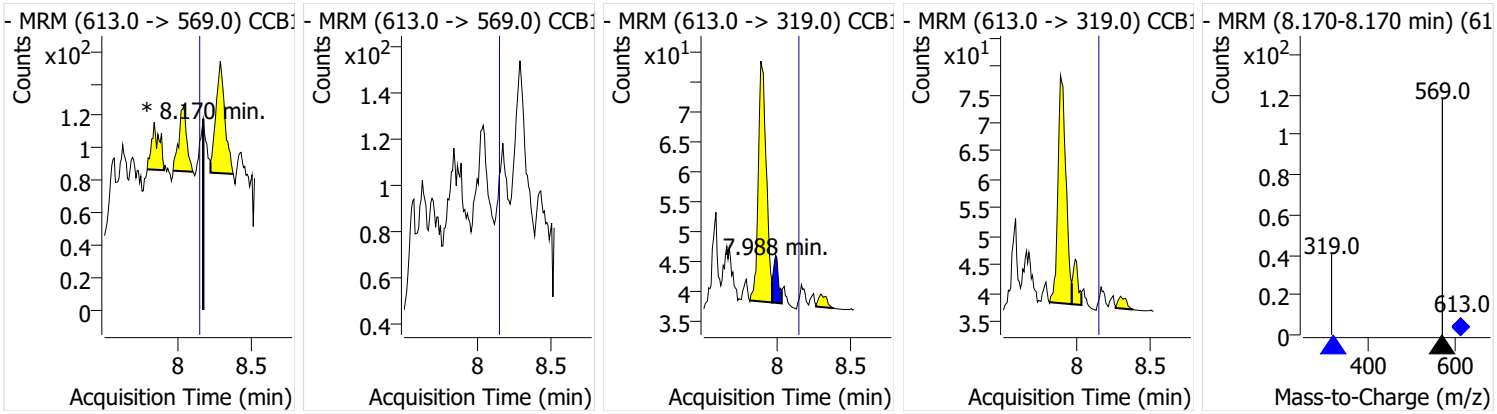
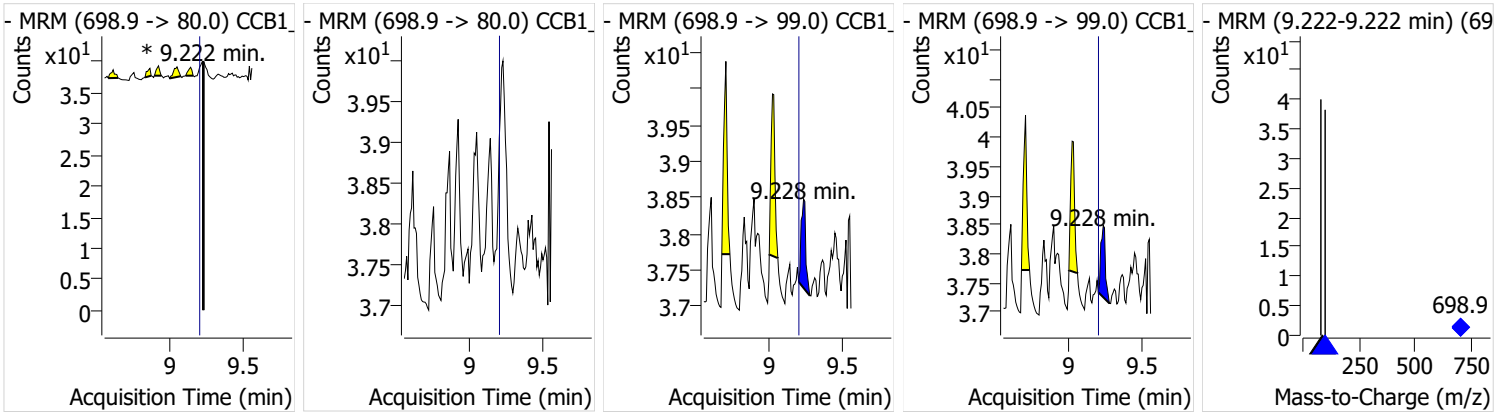
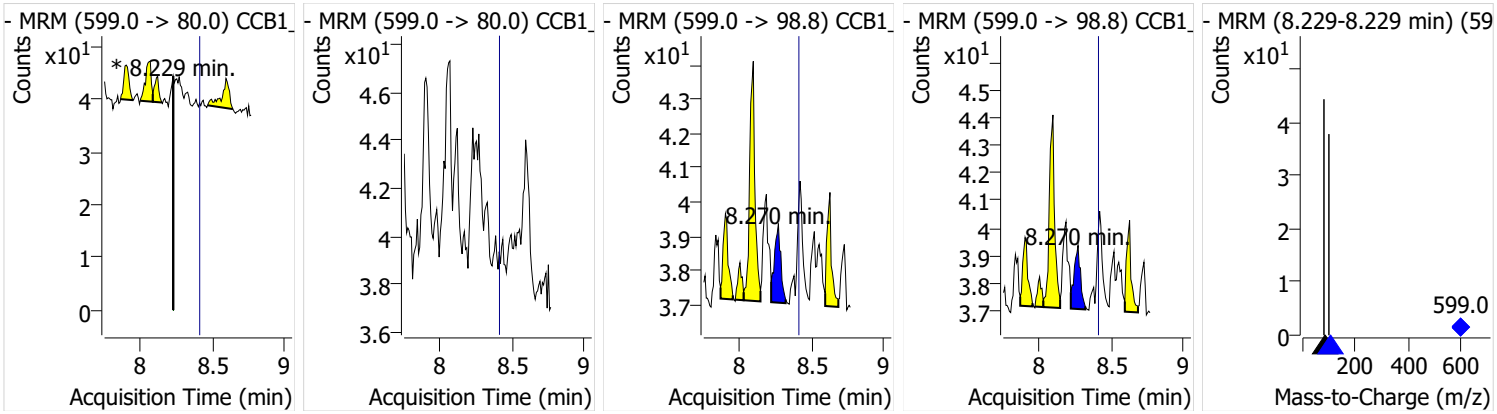


PFDoS



PFDS



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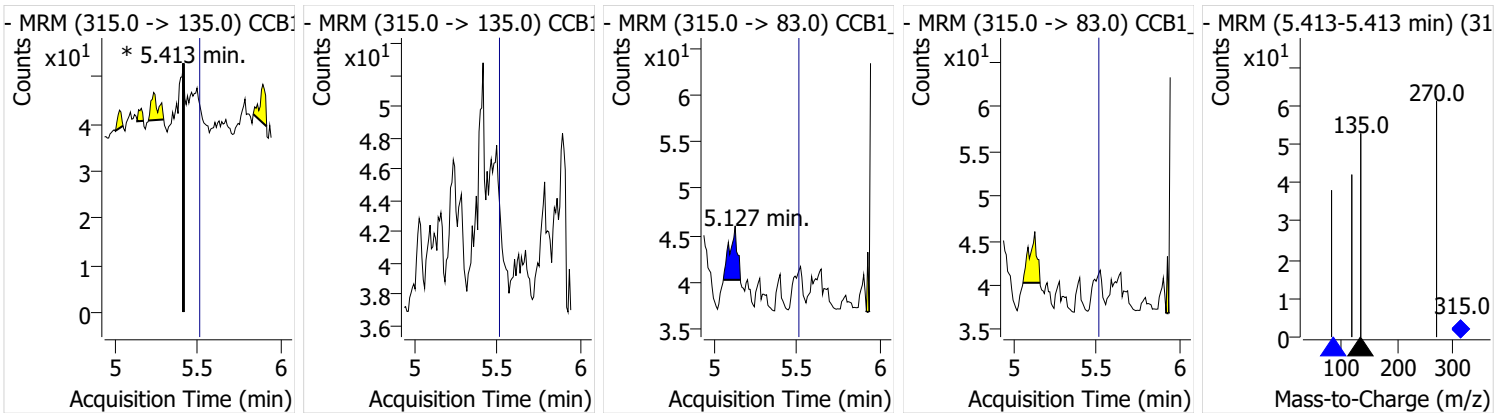
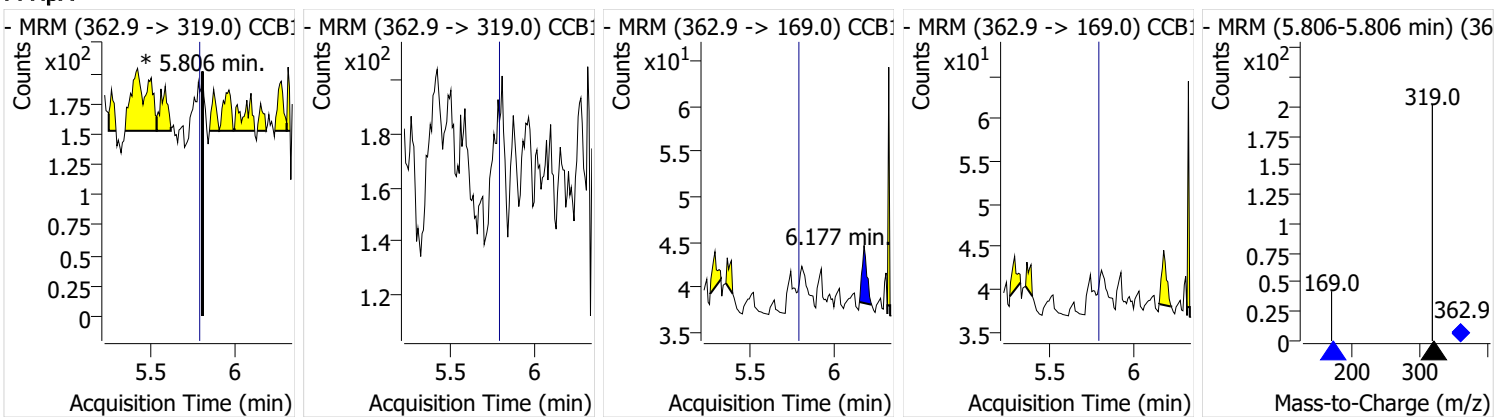


PFHpA



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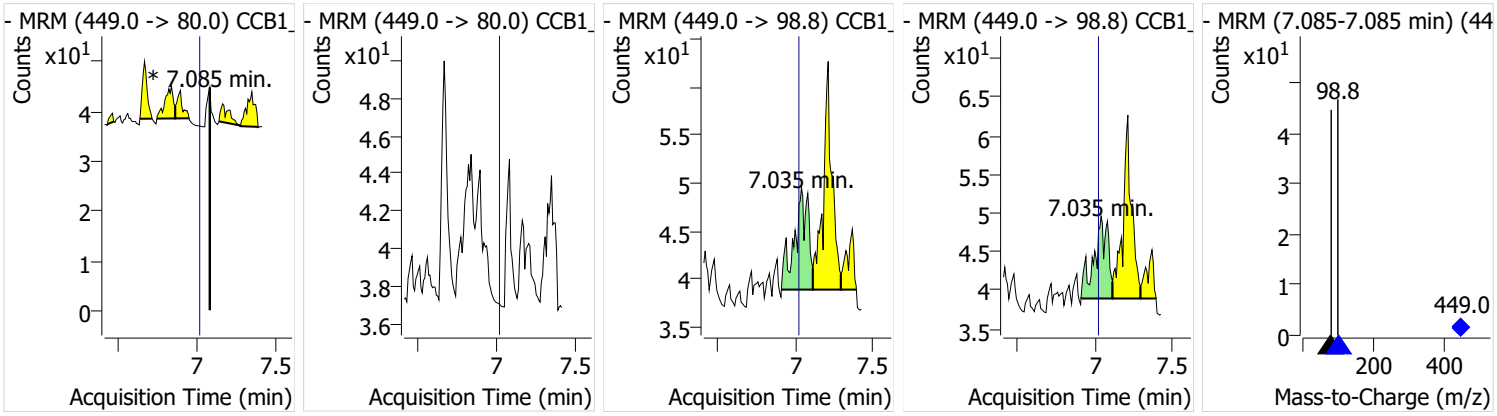

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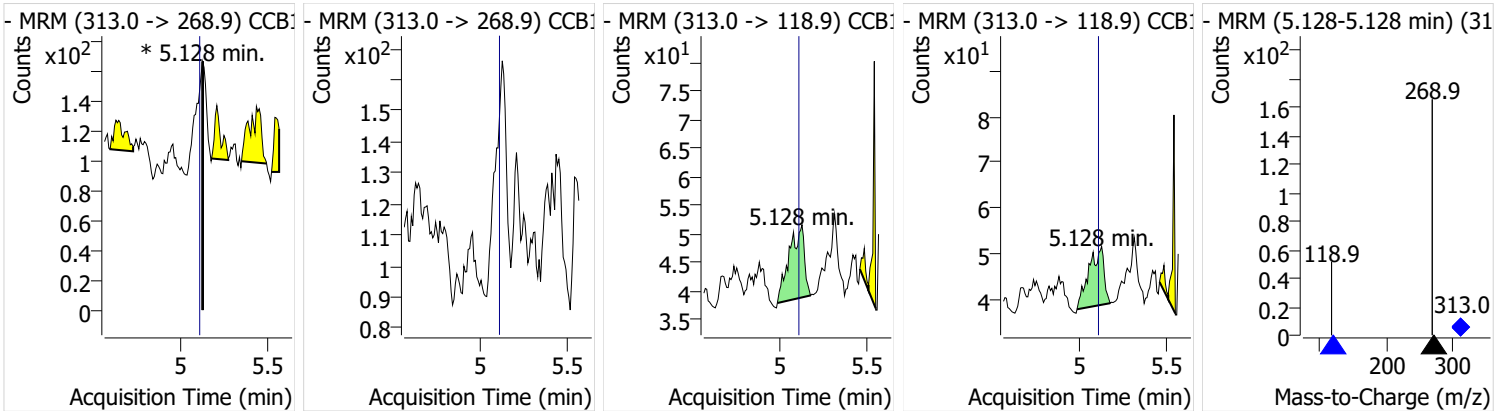
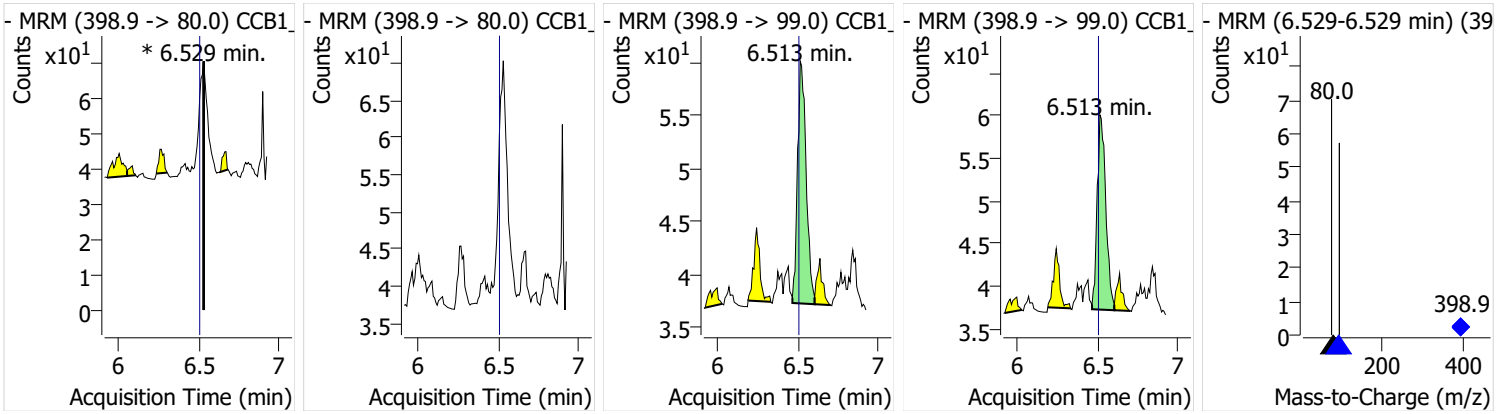


PFHxS



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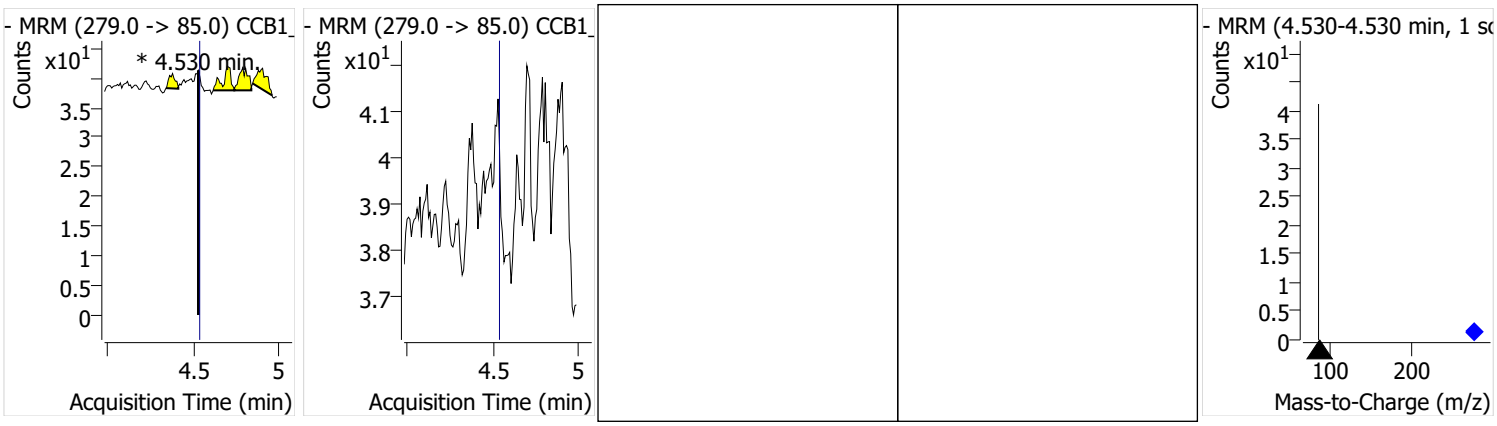

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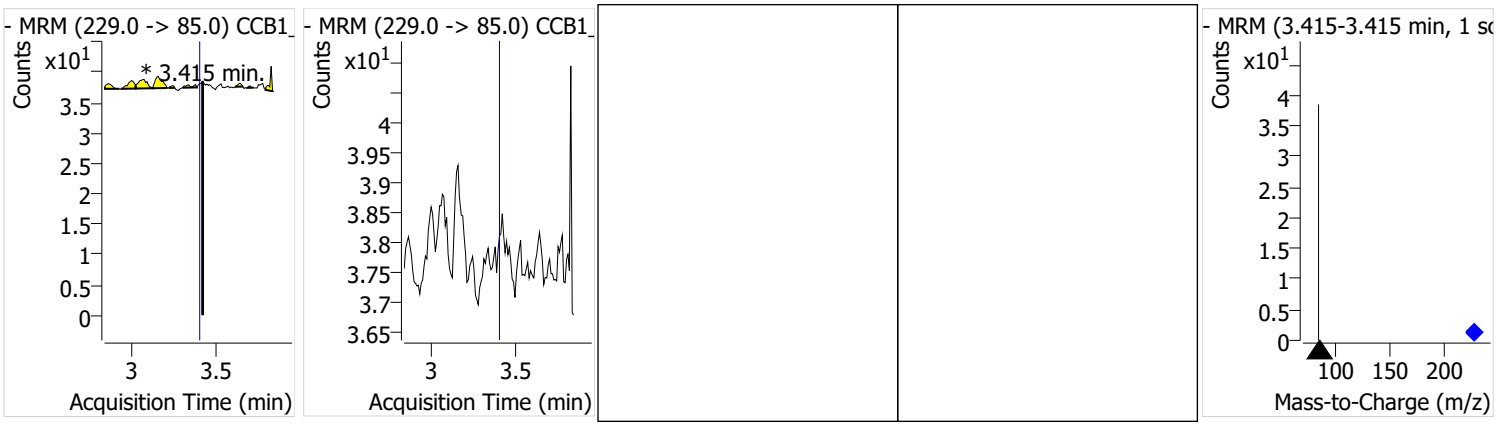

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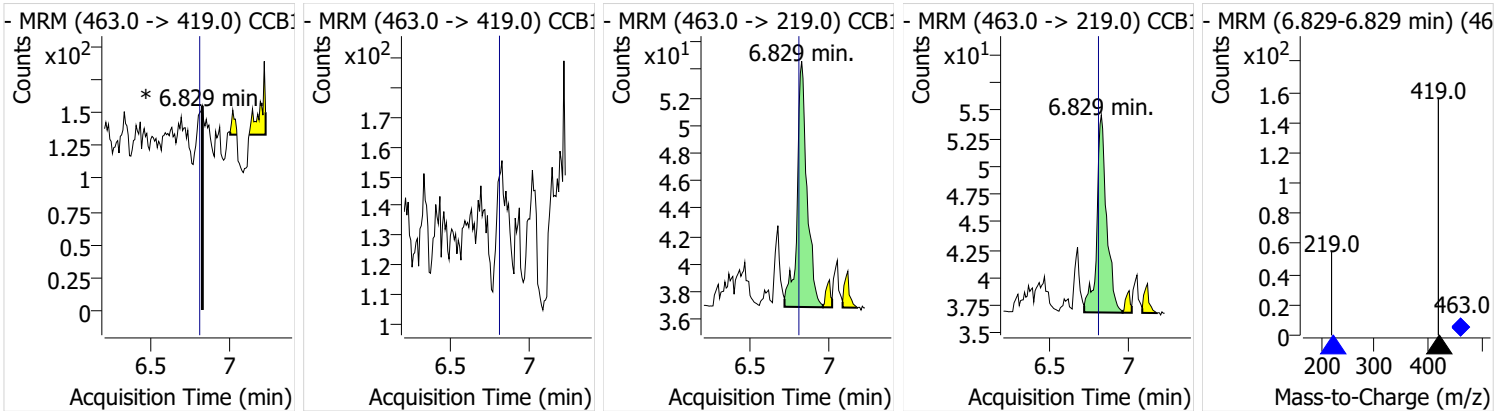
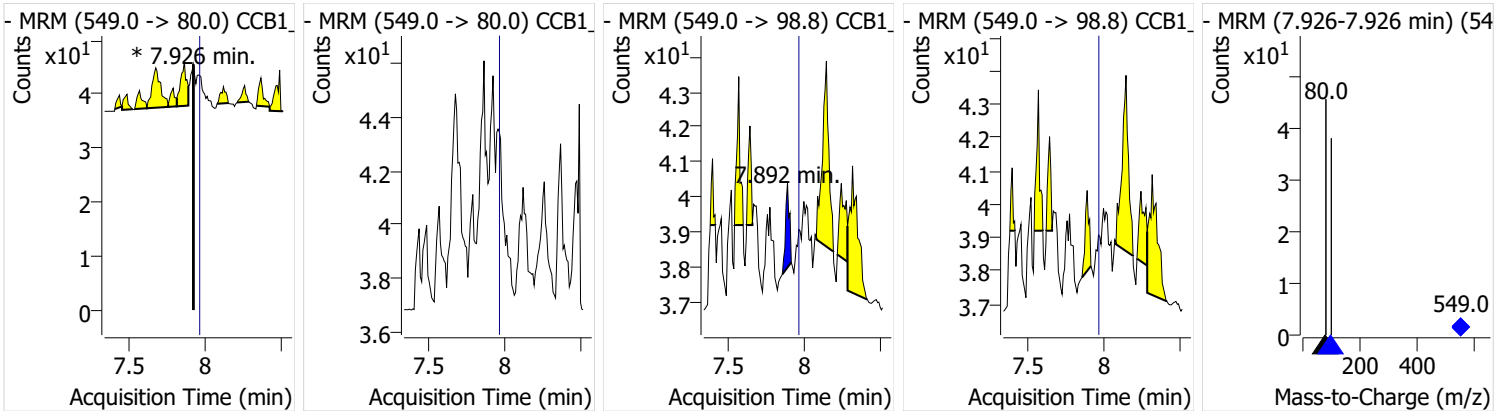
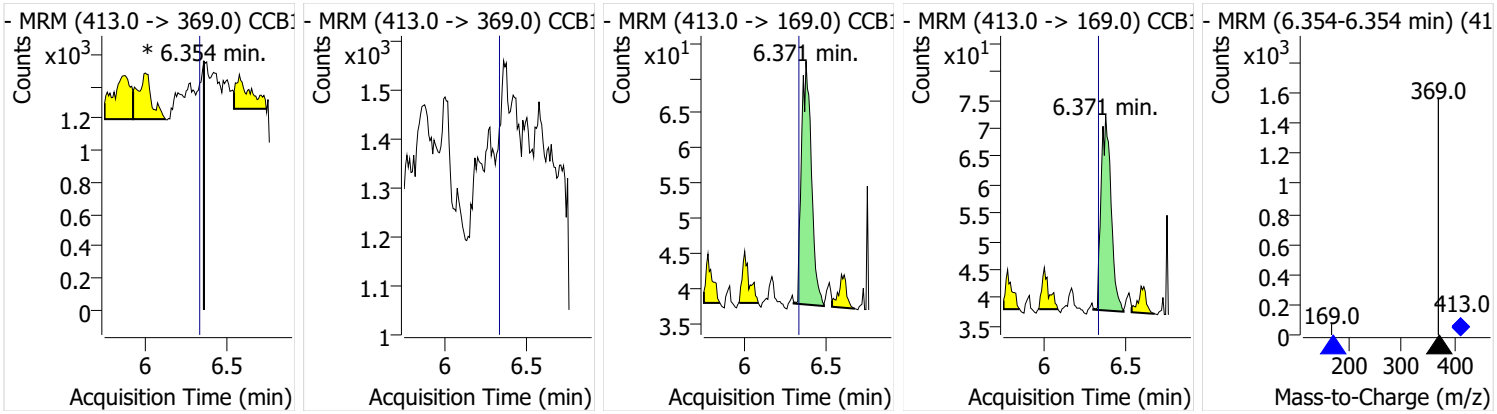


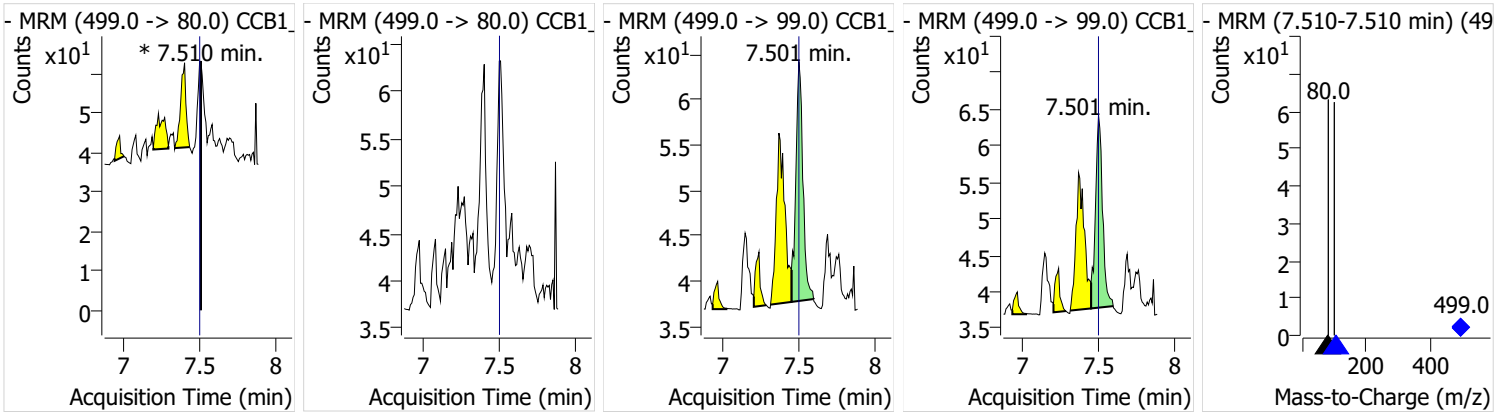
PFNS



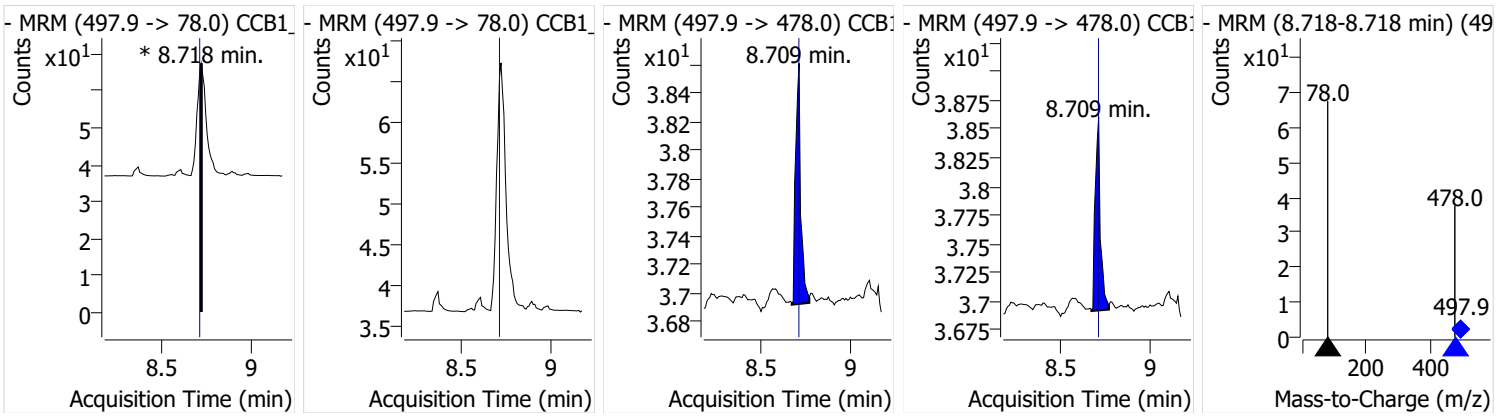
PFOA



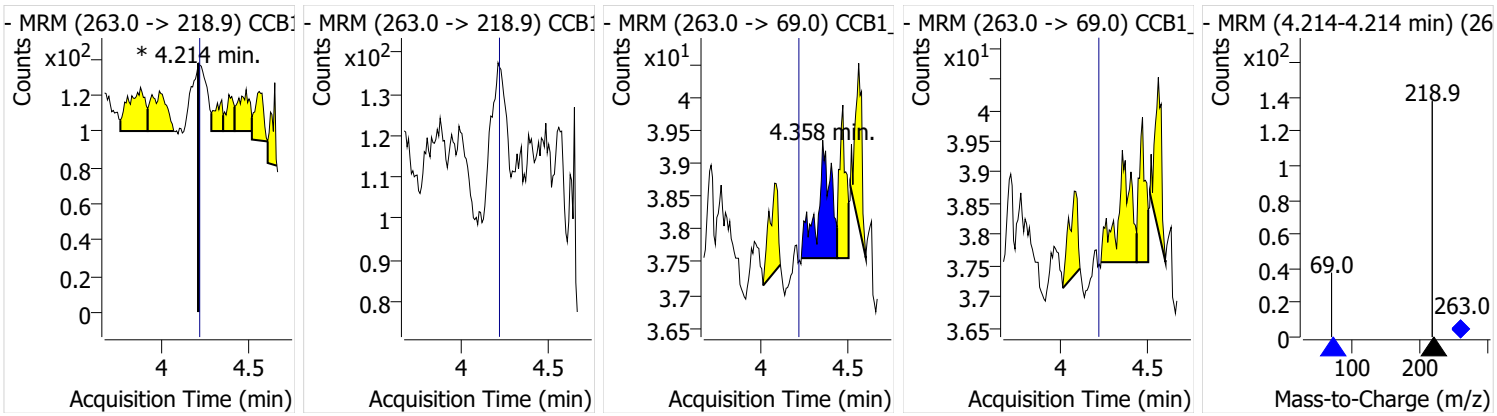
PFOS



PFOSA



PFPeA



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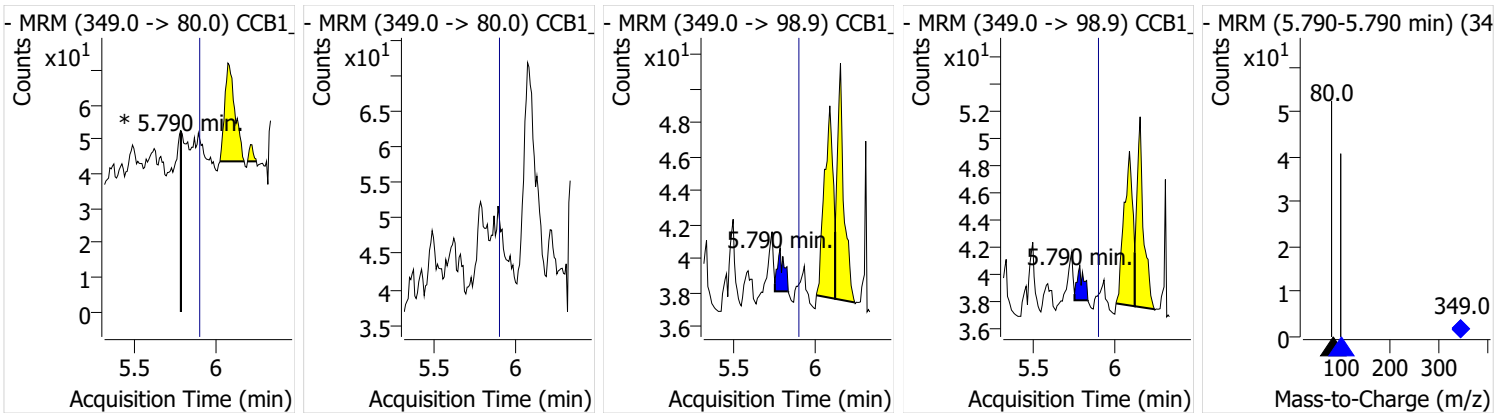

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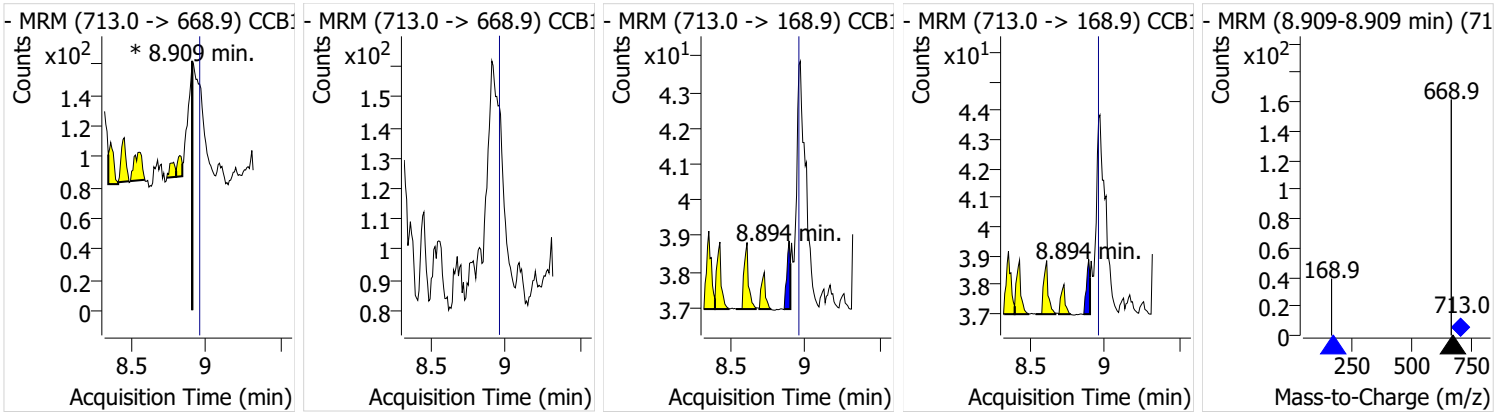
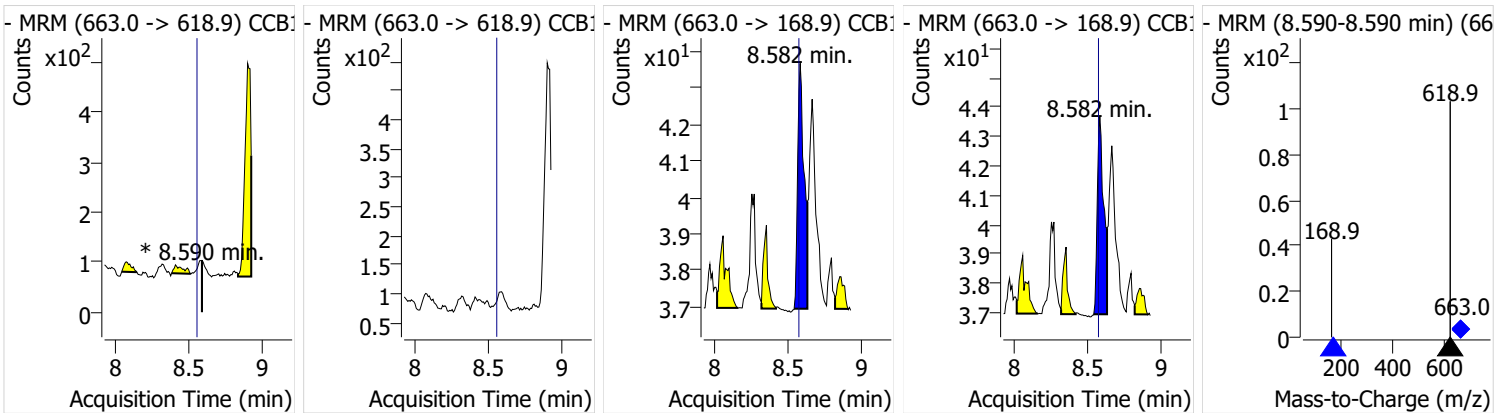
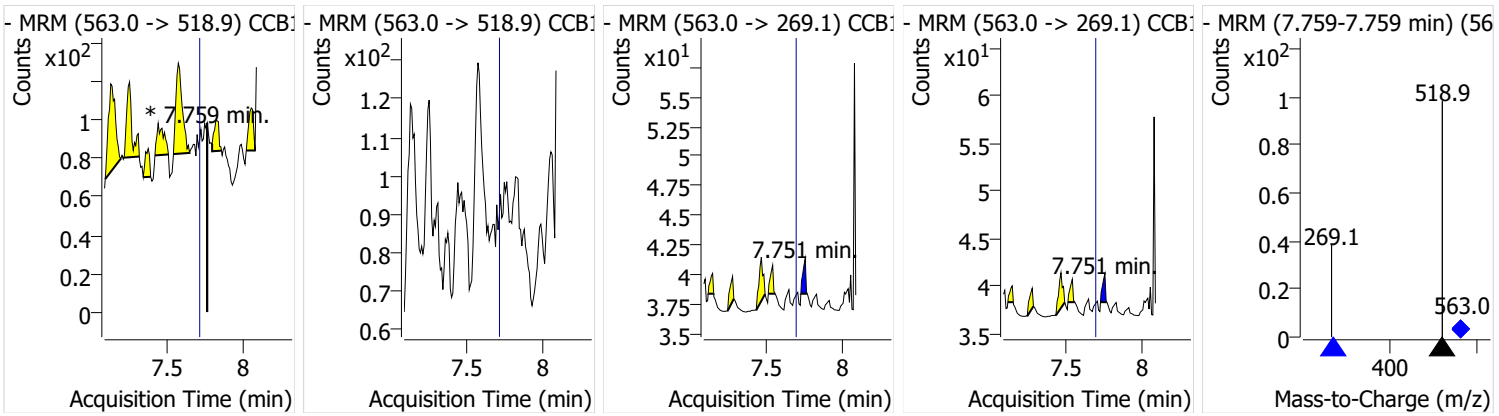


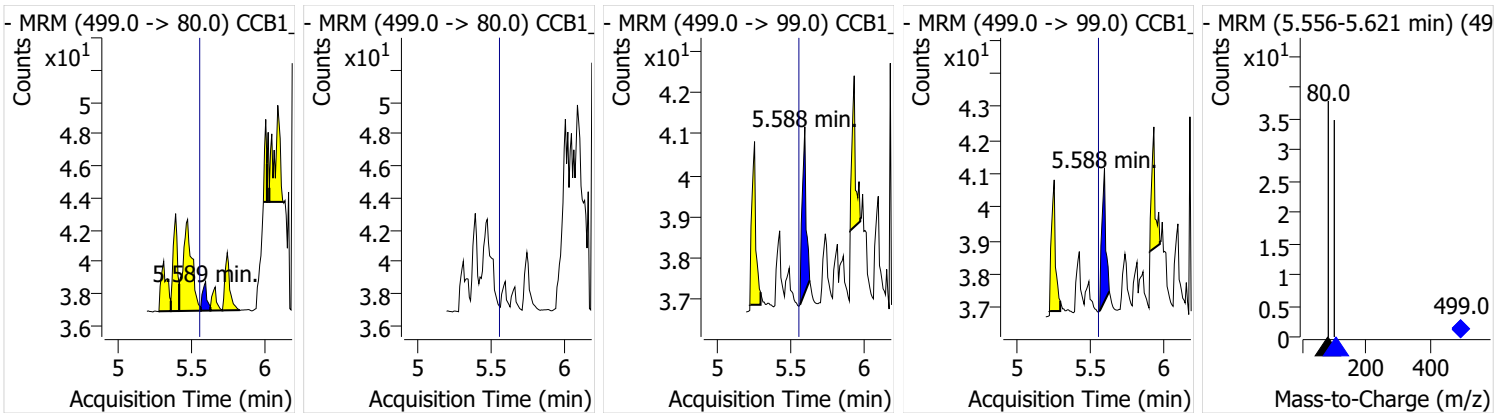
PFTrDA



PFUnA



TDCA



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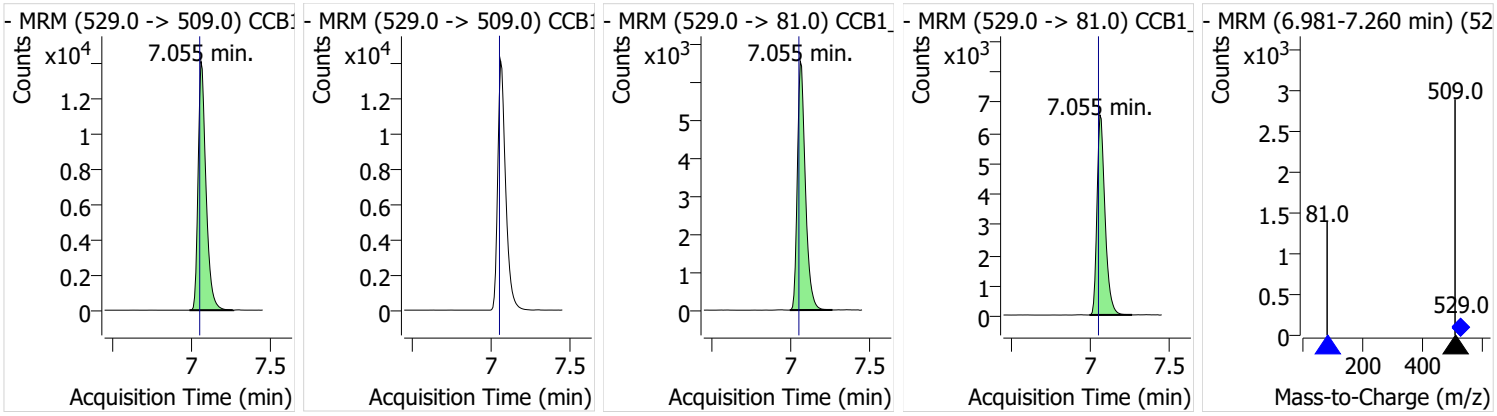
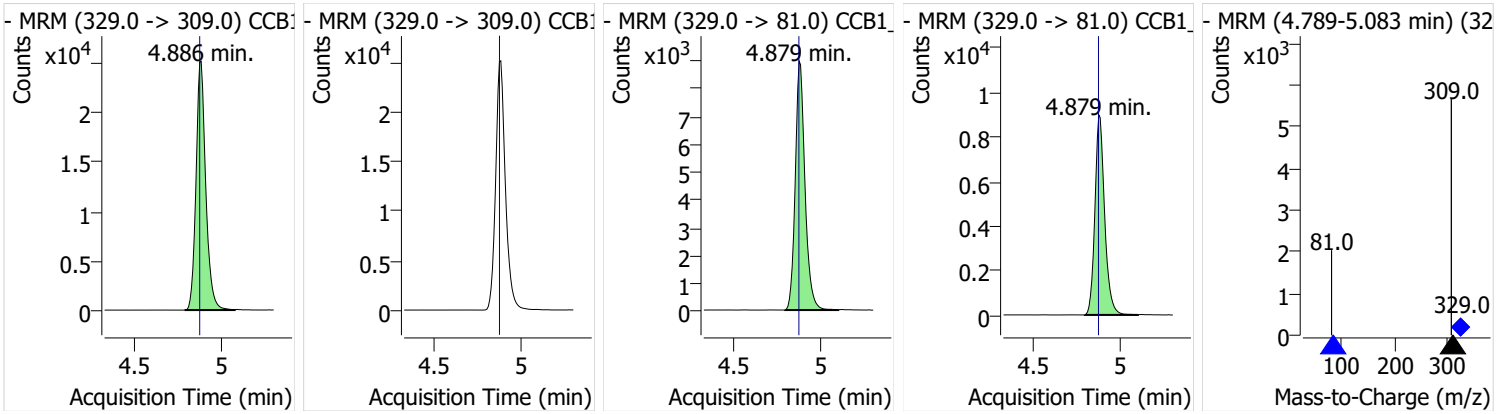
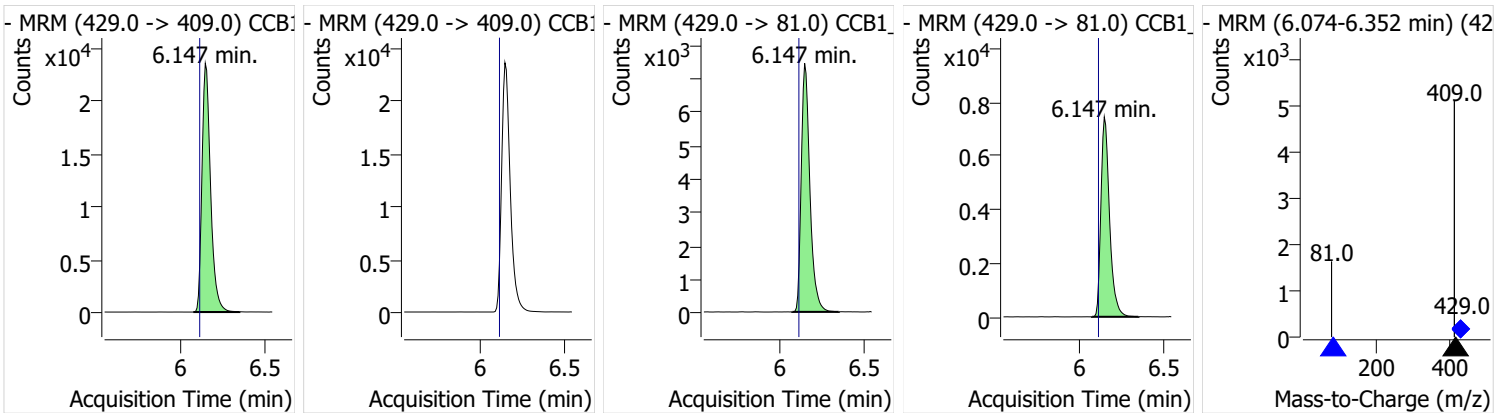


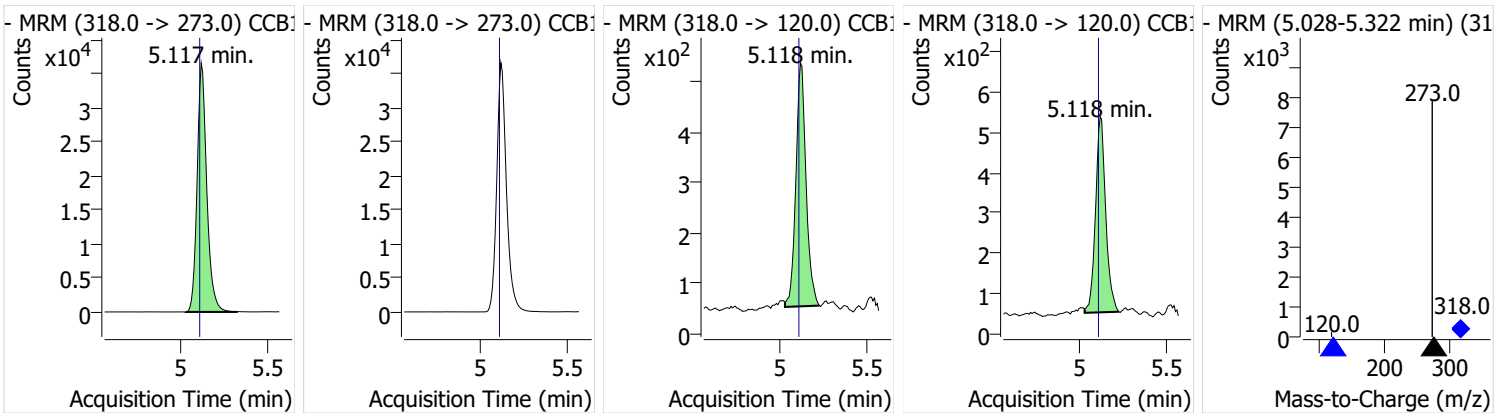
13C2-4:2FTS



13C2-6:2FTS



13C5-PFHxA



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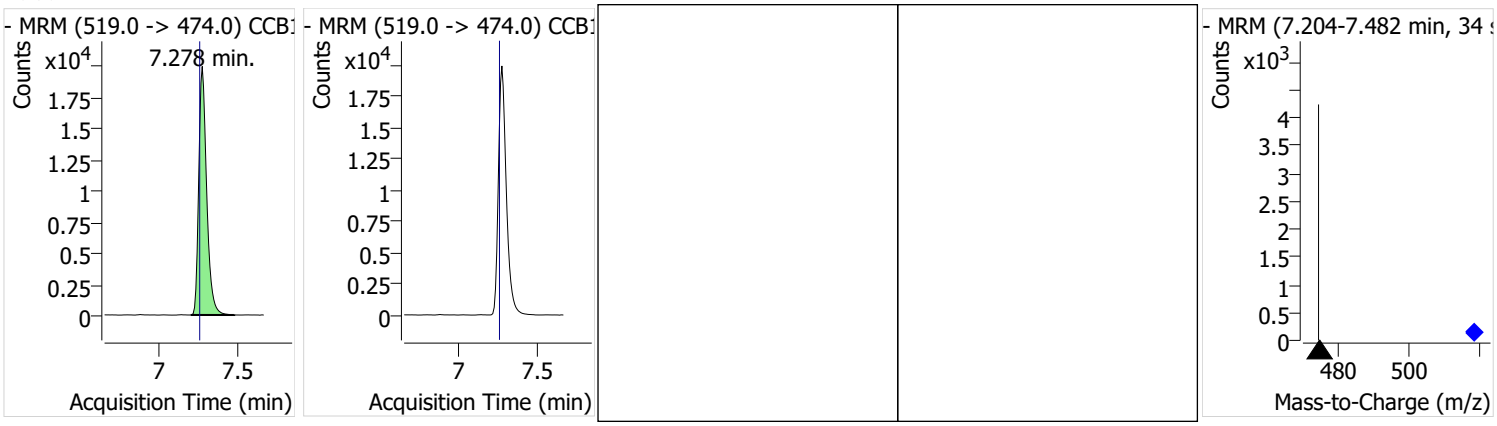

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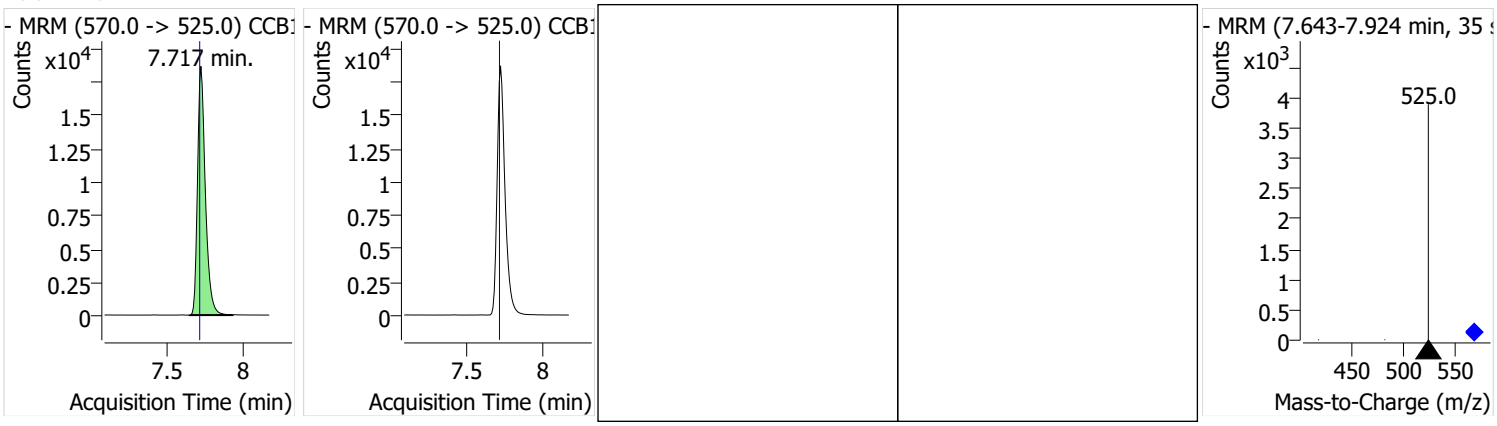

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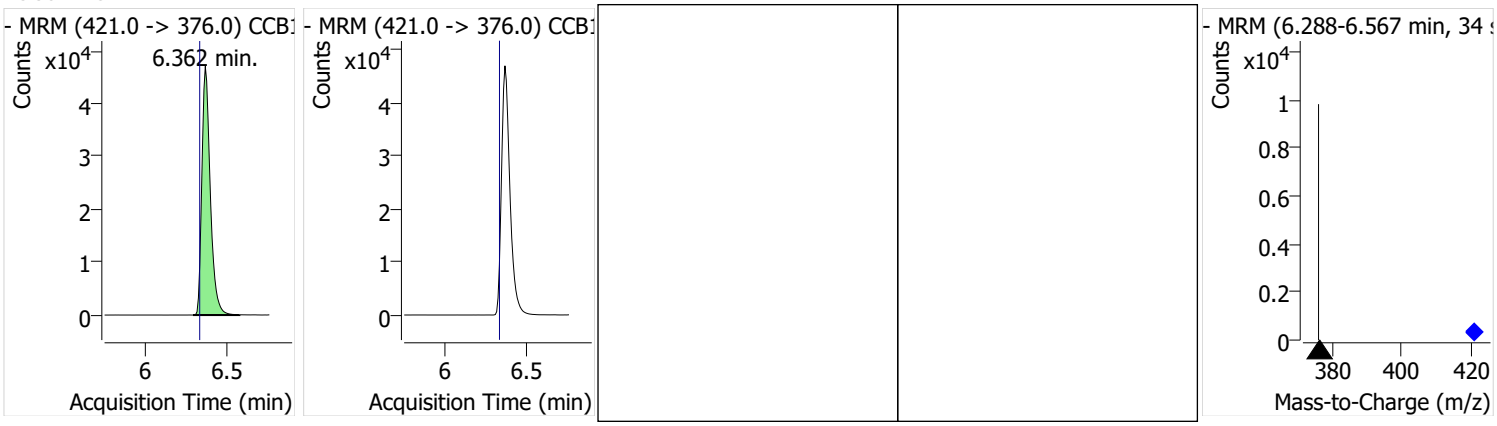

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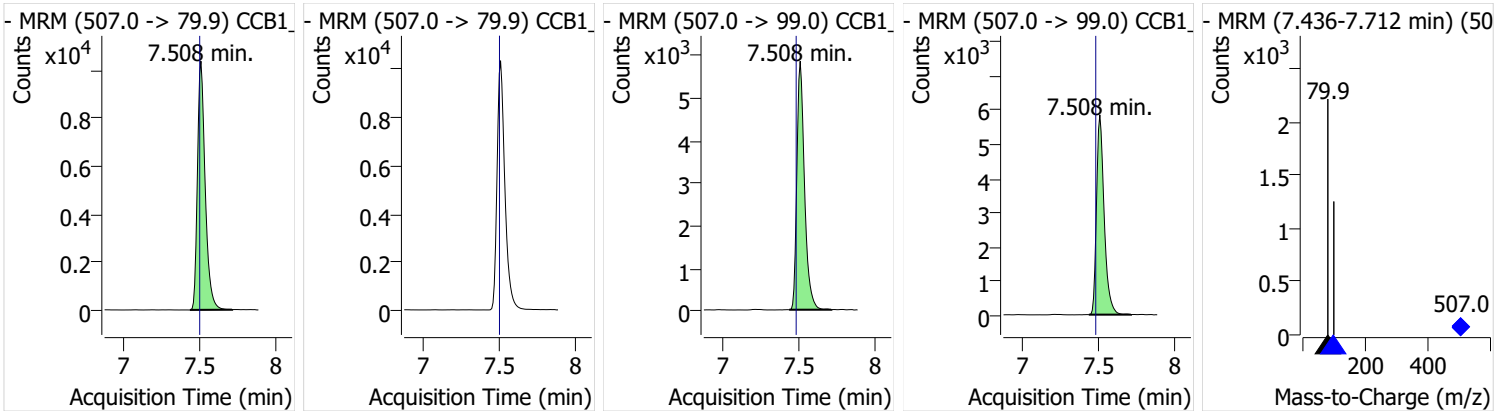

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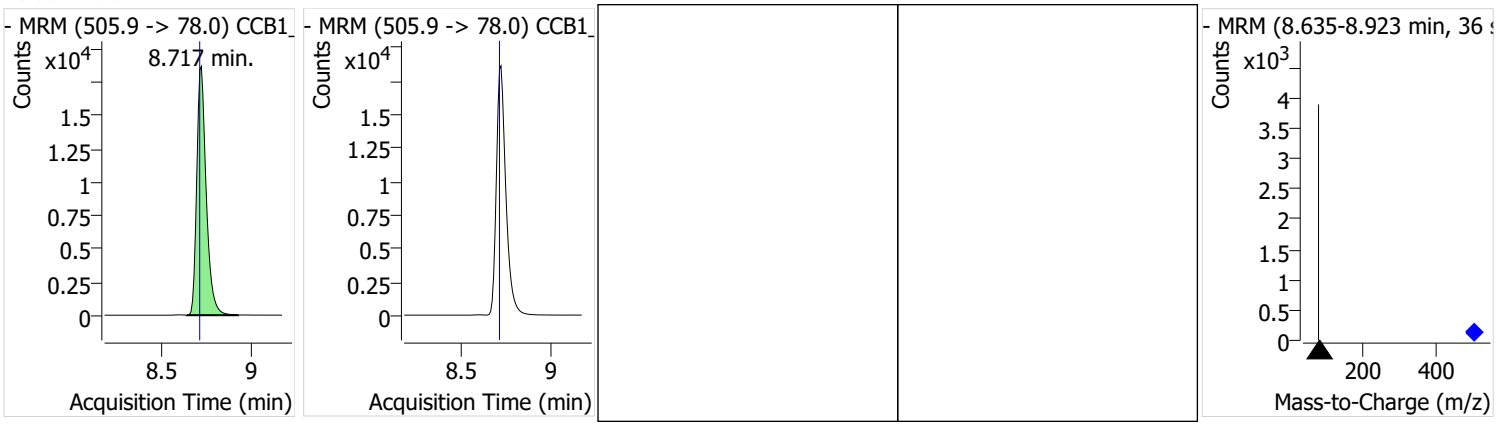

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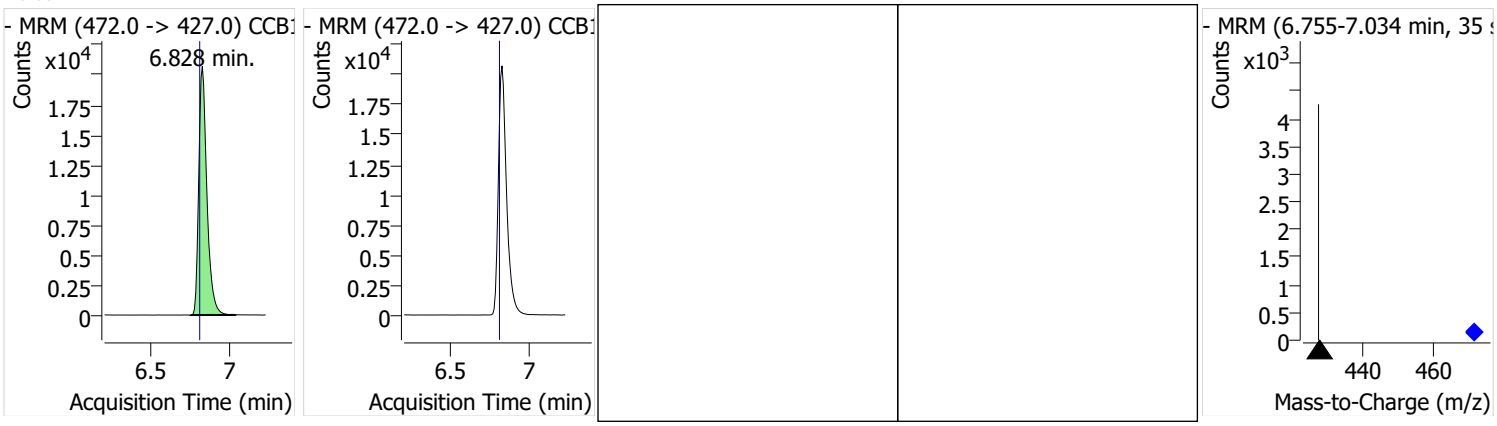

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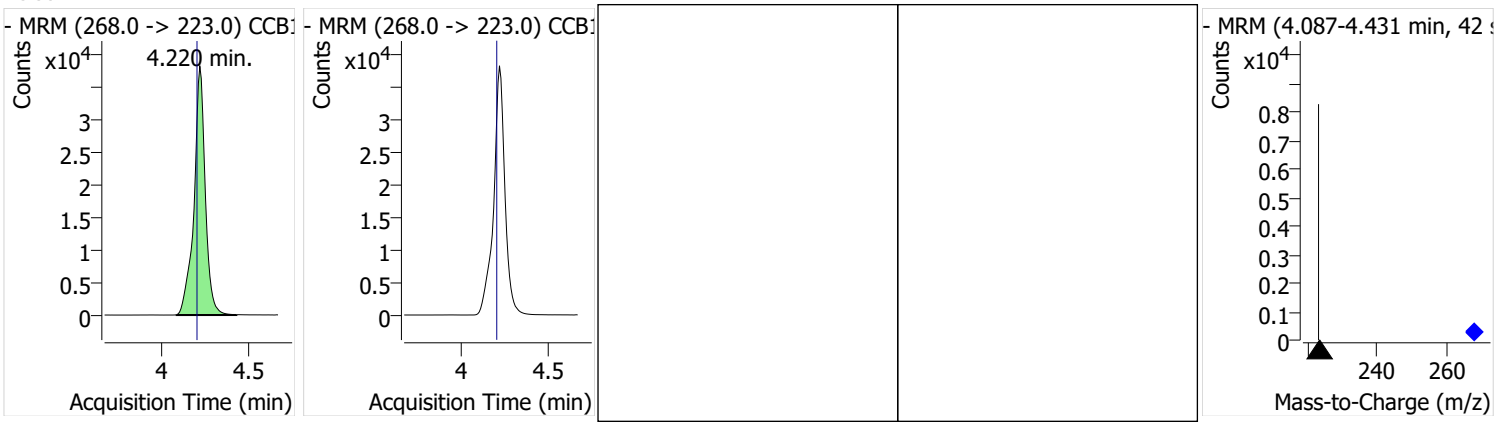

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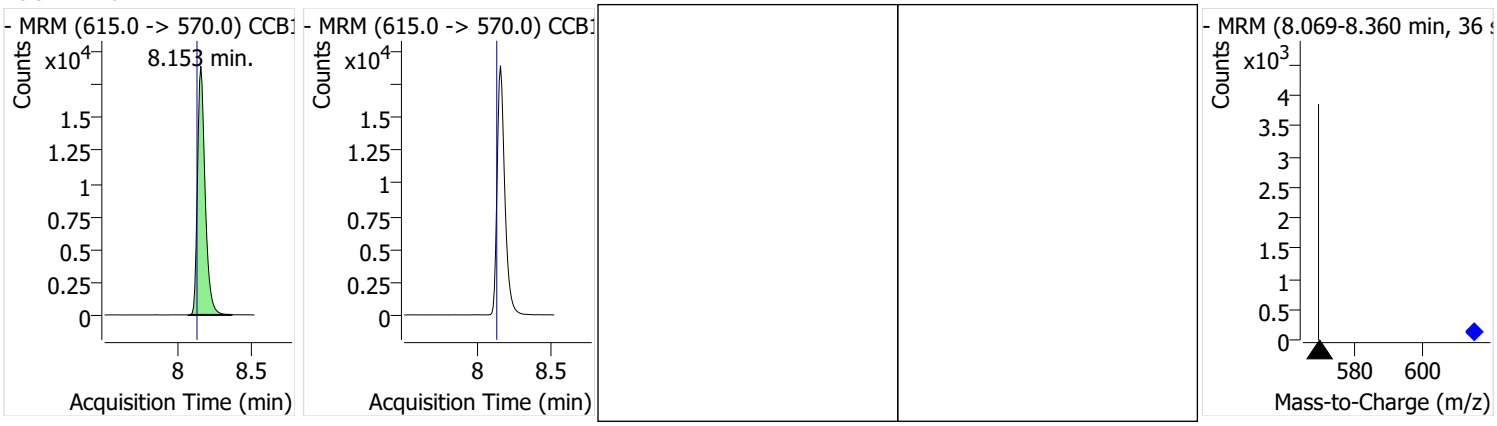

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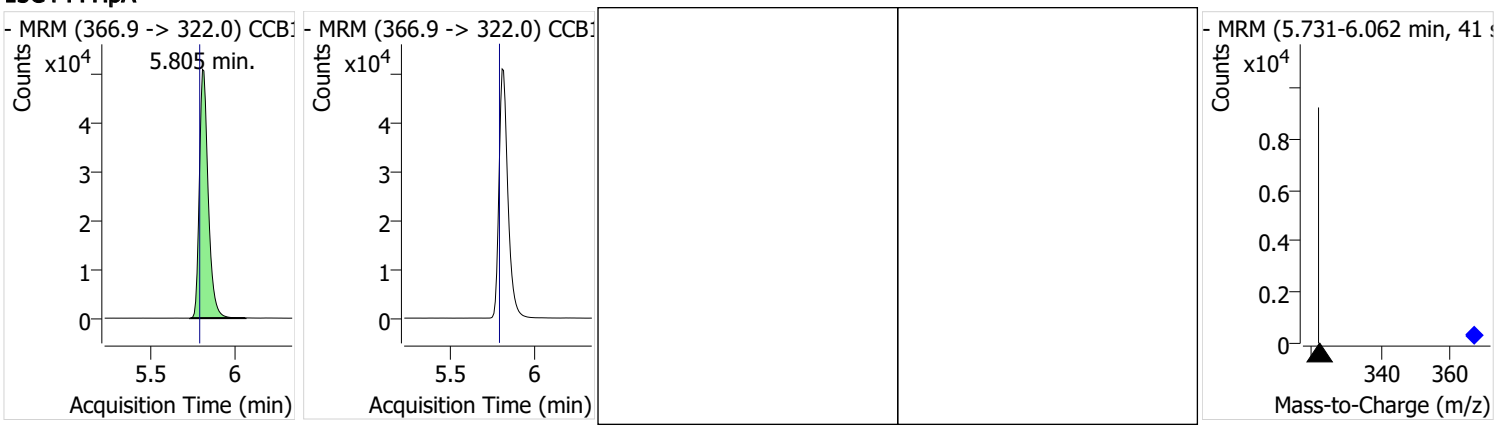

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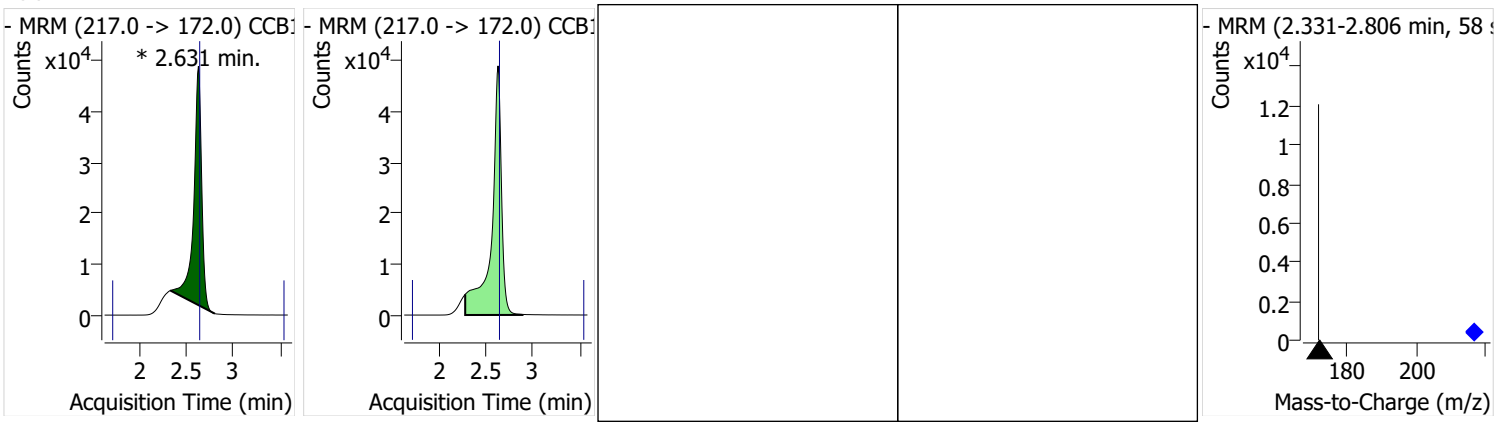

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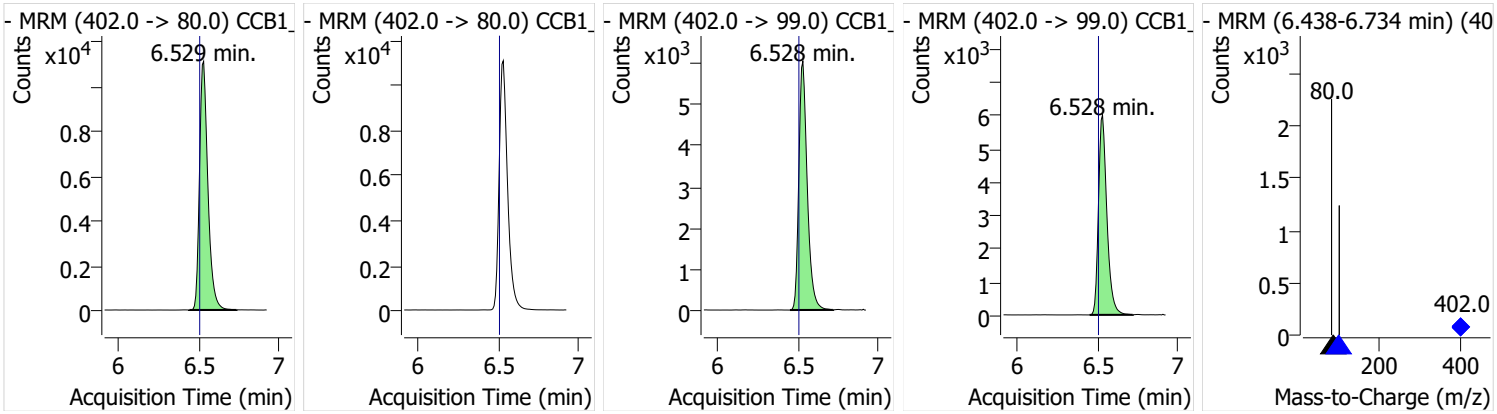

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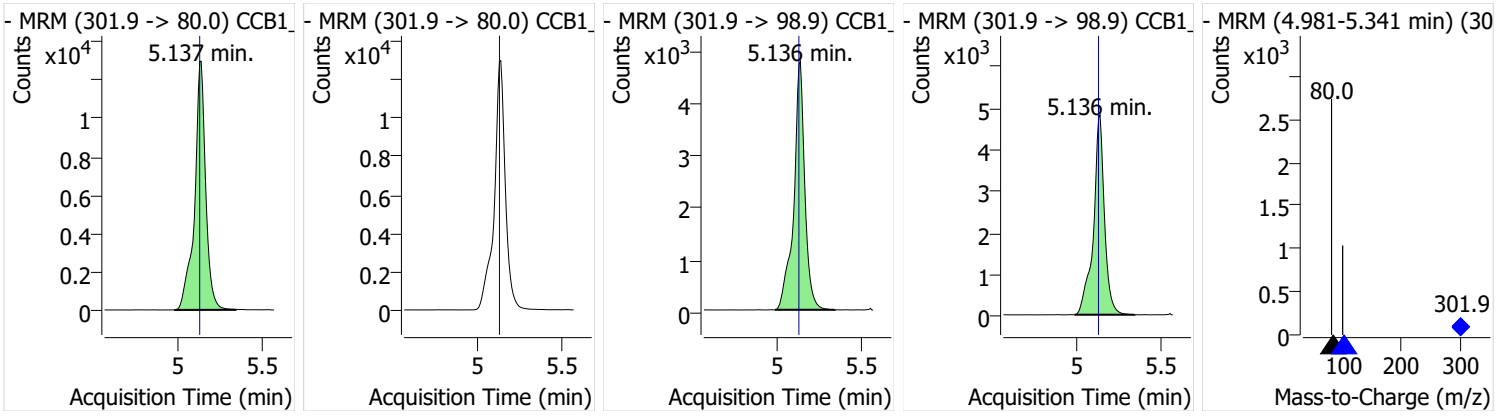

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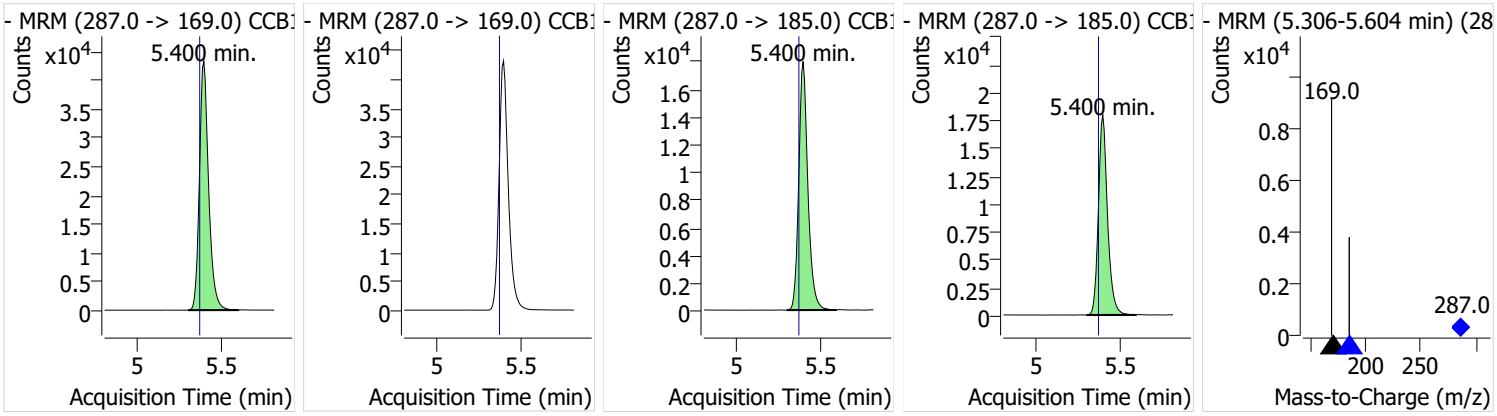
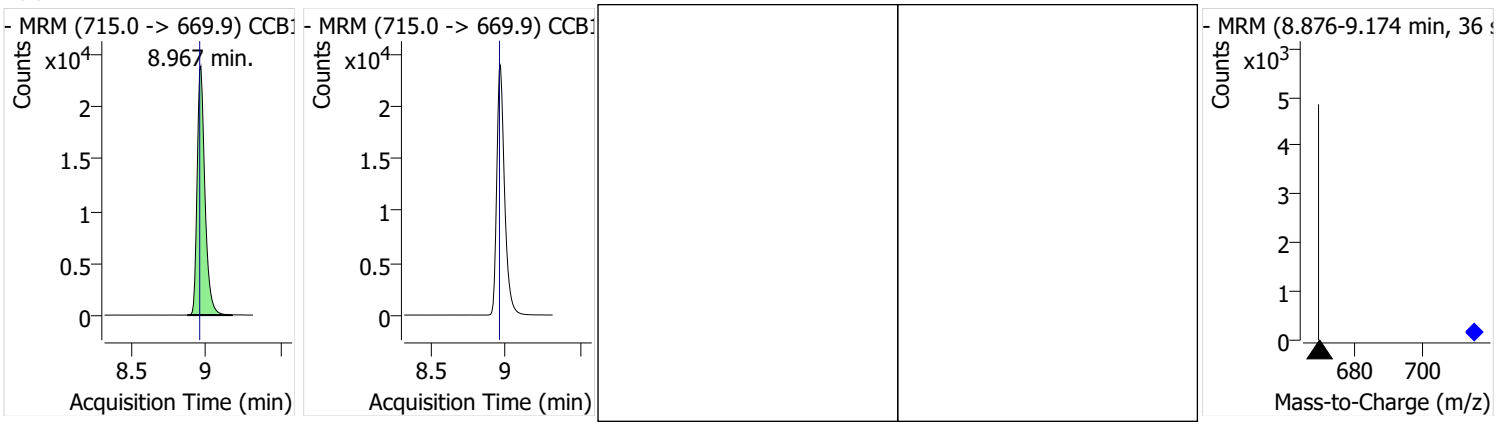
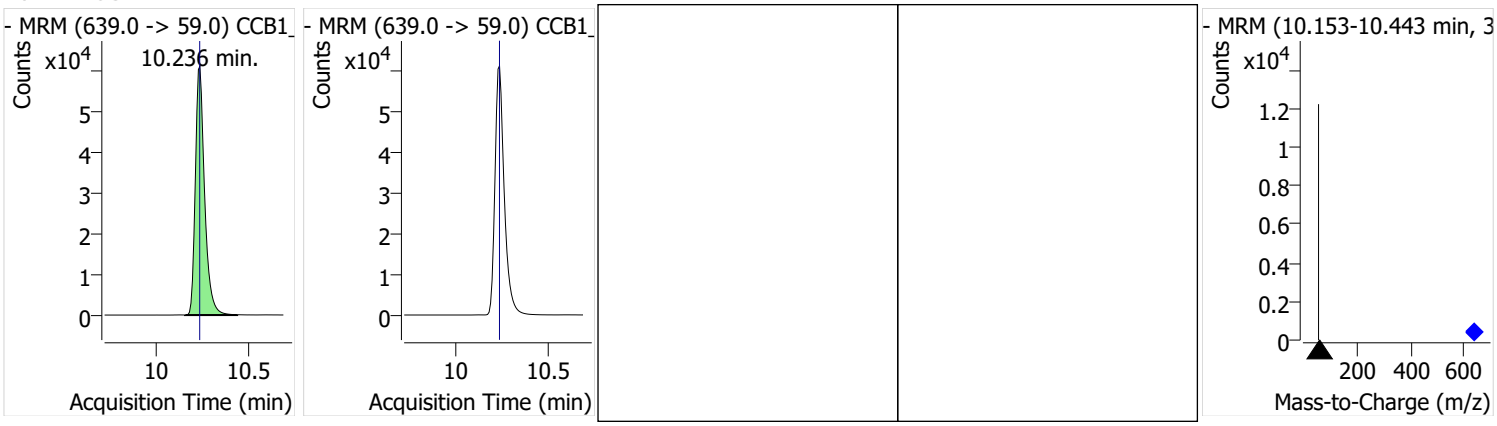


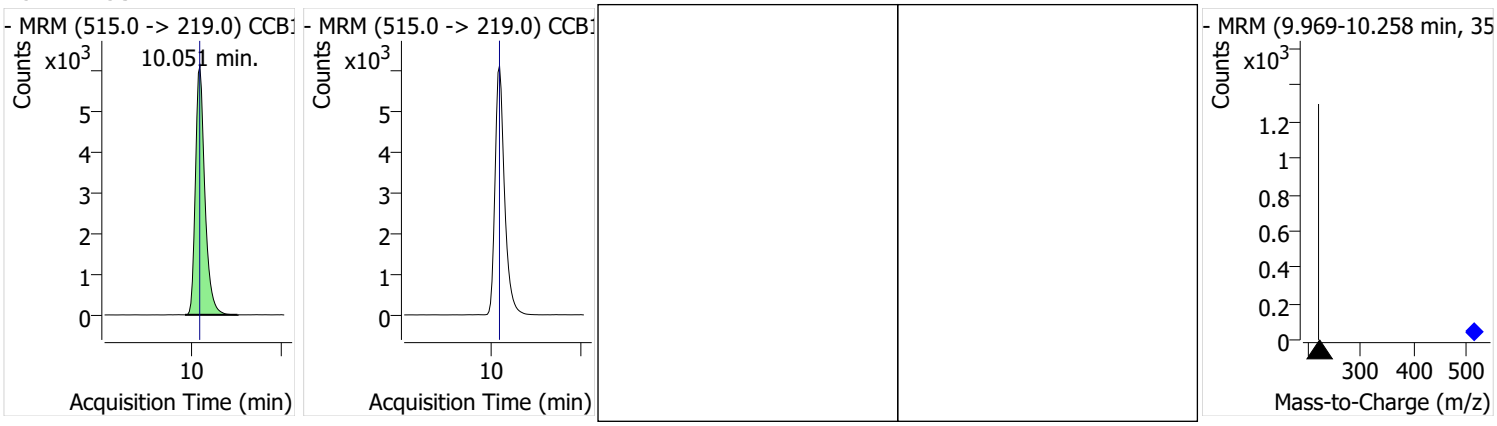
13C2-PFTeDA



D9-NEtFOSE



D3-NMeFOSA



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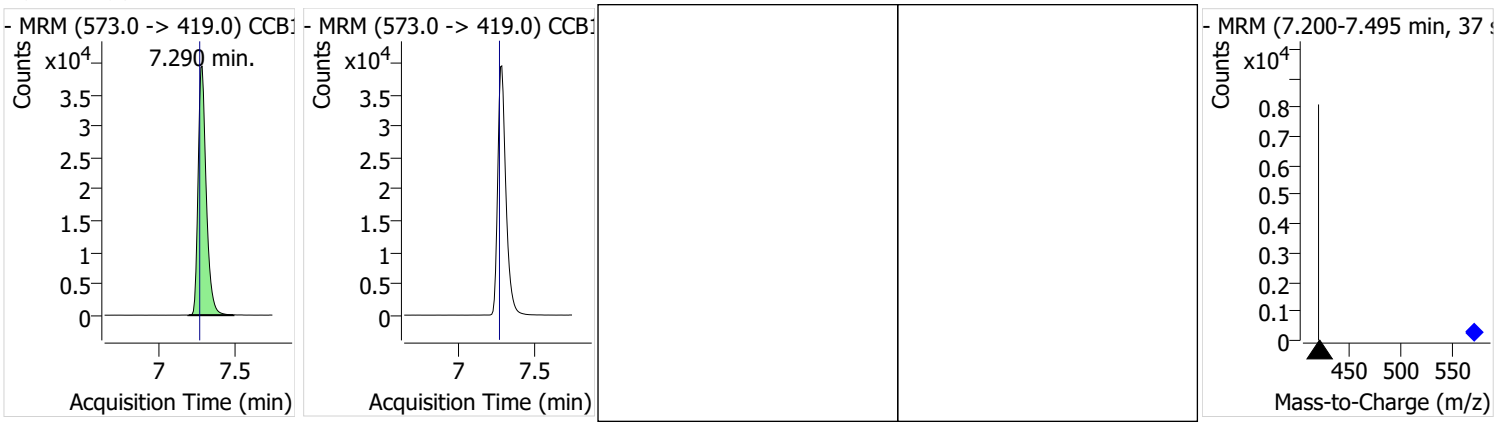

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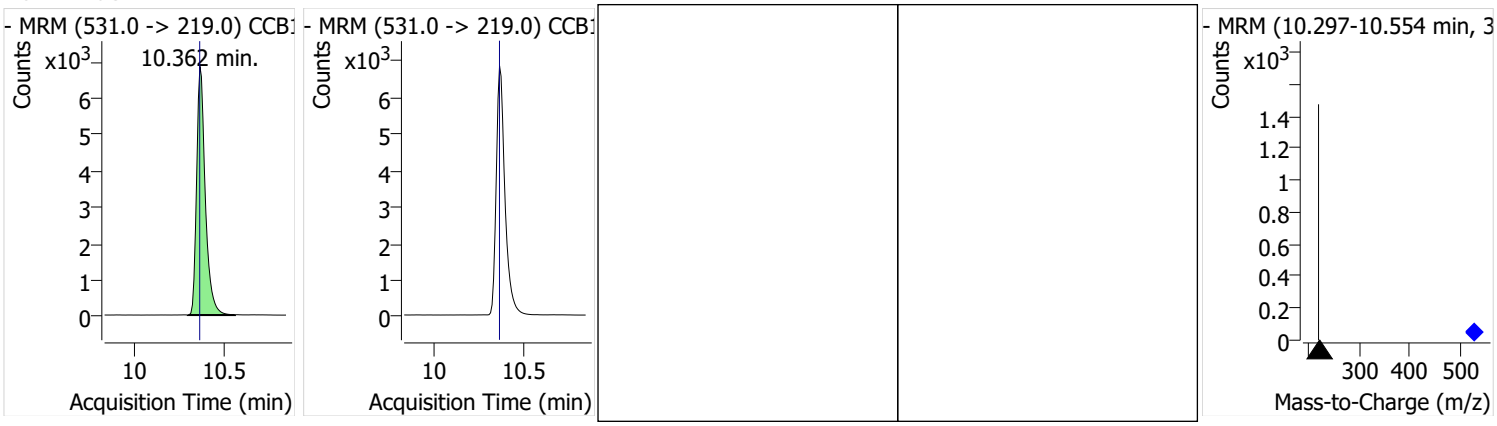
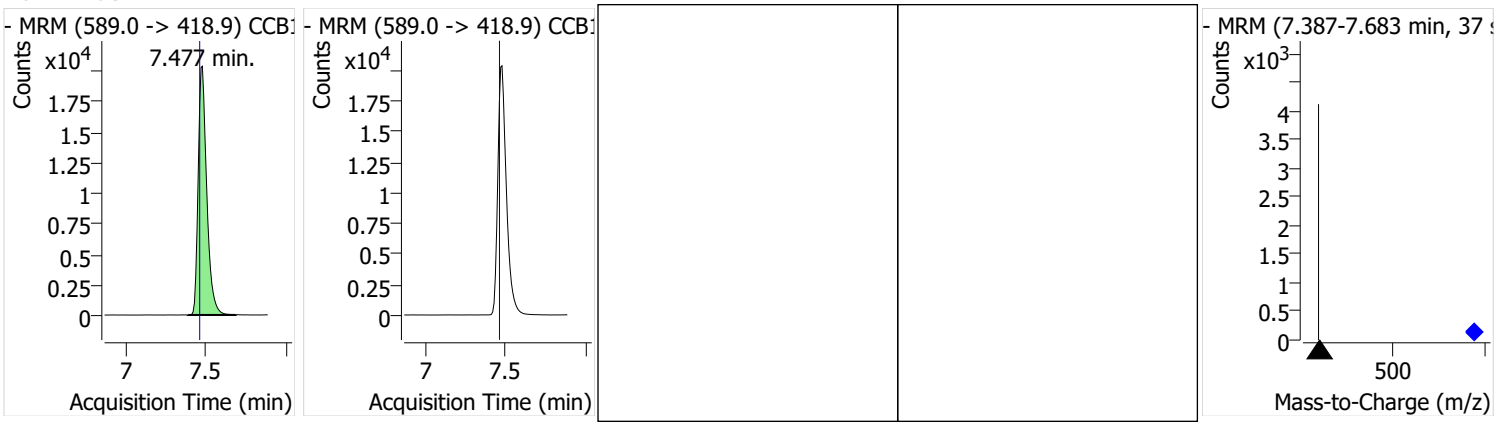
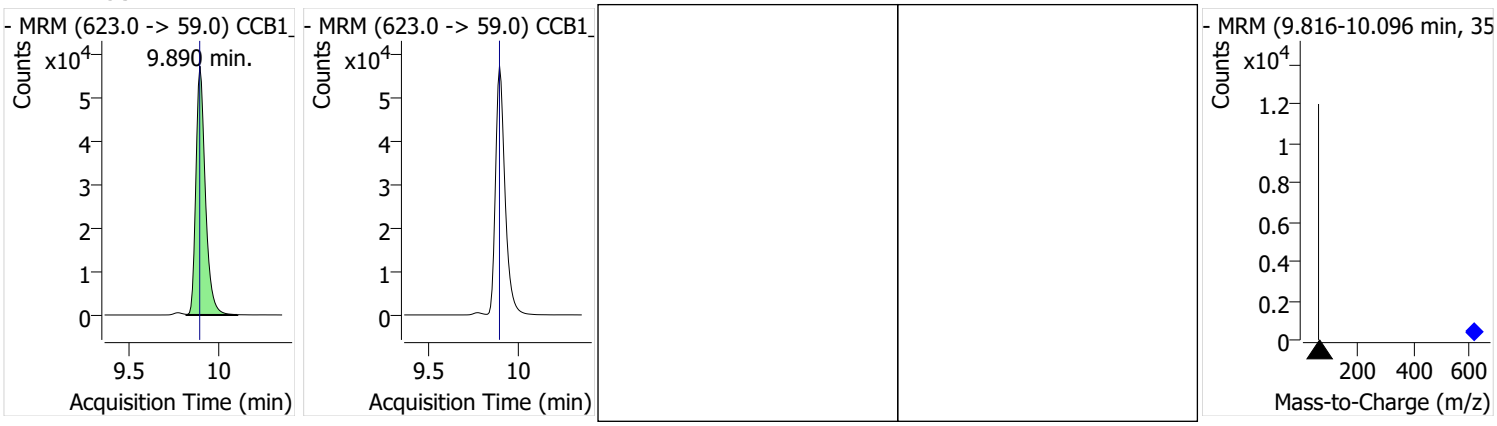


D5-NEtFOSAA



D7-NMeFOSE



1 - FORM I
ANALYSIS DATA SHEET

Calibration Blank

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Water	Laboratory ID:	S105135-CCB2	File ID:	CCB2_1633_052824.d
Sampled:		Prepared:	05/28/24 00:00	Analyzed:	05/28/24 16:54
Solids:		Preparation:	B375132	Dilution:	
Batch:	S105135	Sequence:	S105135	Calibration:	2400593
Instrument:	QQQ5				
Column:	1				

CAS NO.	COMPOUND	CONC. (ng/mL)	MDL	RL	Q
375-22-4	Perfluorobutanoic acid (PFBA)	0.0	0.22	0.40	
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.0	0.043	0.20	
307-24-4	Perfluorohexanoic acid (PFHxA)	0.0	0.024	0.10	
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.0	0.027	0.10	
335-67-1	Perfluorooctanoic acid (PFOA)	0.0	0.026	0.10	
375-95-1	Perfluorononanoic acid (PFNA)	0.0	0.019	0.10	
335-76-2	Perfluorodecanoic acid (PFDA)	0.0	0.021	0.10	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.0	0.020	0.10	
307-55-1	Perfluorododecanoic acid (PFDoA)	0.0	0.020	0.10	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.0	0.030	0.10	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.0	0.026	0.10	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.0	0.021	0.10	
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.0	0.026	0.10	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.0	0.028	0.10	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.0	0.033	0.10	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.0	0.038	0.10	
68259-12-1	Perfluorononanesulfonic acid (PFNS)	0.0	0.025	0.10	
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.0	0.029	0.10	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	0.0	0.029	0.10	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (	0.0	0.075	0.40	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid ((	0.0	0.30	0.40	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (	0.0	0.11	0.40	
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.0	0.023	0.10	
31506-32-8	N-methyl perfluoroocatnesulfonamide (NMeF	0.0	0.033	0.10	
4151-50-2	N-ethyl perfluorooctanesulfonamide (NEtFOS	0.0	0.034	0.10	
2355-31-9	N-MeFOSAA (NMeFOSAA)	0.0	0.036	0.10	
2991-50-6	N-EtFOSAA (NEtFOSAA)	0.0	0.040	0.10	
24448-09-7	N-methylperfluorooctanesulfonamidoethanol(	0.0	0.27	1.0	
1691-99-2	N-ethylperfluorooctanesulfonamidoethanol (N	0.0	0.27	1.0	
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPC	0.0	0.10	0.40	

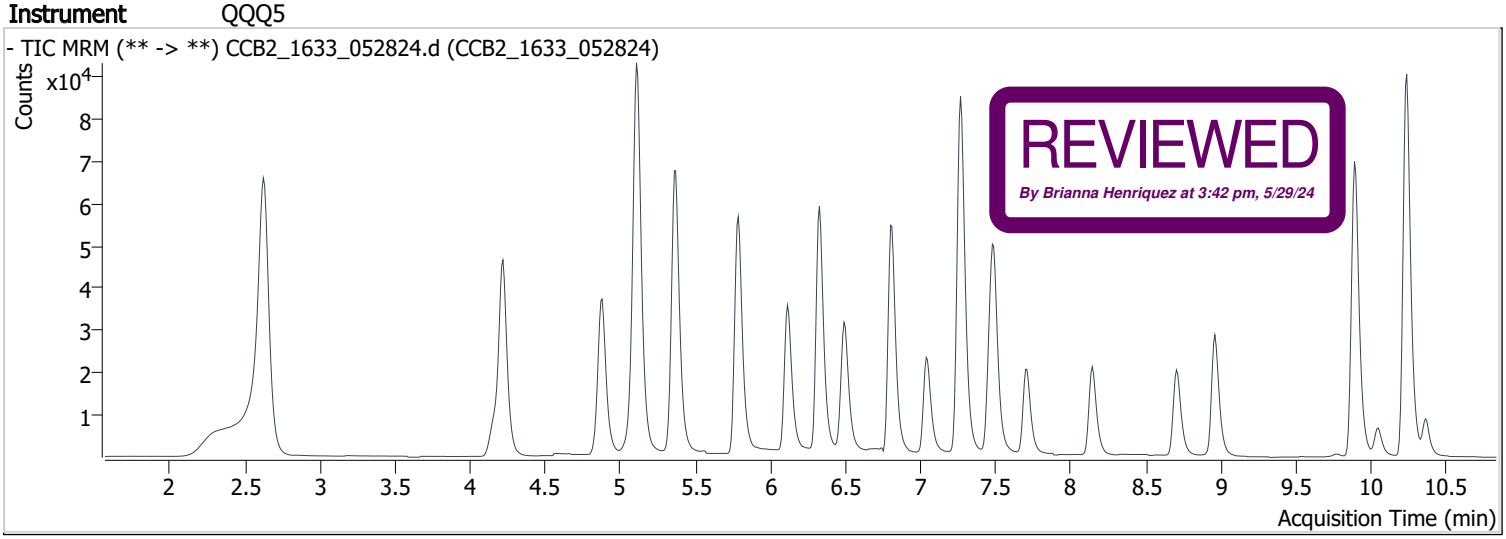
1 - FORM I
ANALYSIS DATA SHEET

Calibration Blank

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Water	Laboratory ID:	S105135-CCB2	File ID:	CCB2_1633_052824.d
Sampled:		Prepared:	05/28/24 00:00	Analyzed:	05/28/24 16:54
Solids:		Preparation:	B375132	Dilution:	
Batch:	S105135	Sequence:	S105135	Calibration:	2400593
Instrument:	QQQ5				
Column:	1				

CAS NO.	COMPOUND	CONC. (ng/mL)	MDL	RL	Q
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADON/	0.0	0.082	0.40	
756426-58-1	9Cl-PF3ONS (F53B Minor)	0.0	0.096	0.40	
763051-92-9	11Cl-PF3OUdS (F53B Major)	0.0	0.11	0.40	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)(3:3	0.0	0.22	1.0	
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)	0.0	1.1	5.0	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)(7:3	0.0	0.95	5.0	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEE	0.0	0.035	0.20	
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.0	0.056	0.20	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	0.0	0.054	0.20	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.0	0.055	0.20	

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CCVS.batch.bin		
Analysis Time	5/29/2024 11:23 AM	**Last Calib Update**	5/29/2024 8:40 AM
Acq. Time	5/28/2024 4:54 PM	**Data File**	CCB2_1633_052824.d
Sample Type	Sample	**Sample Name**	CCB2_1633_052824
Dilution	1	**Acq. Method**	1633_ACQUISITION.m
Sample Comment	E#24E0527	**Processing method**	1633_052824.m
Instrument	QQQ5		



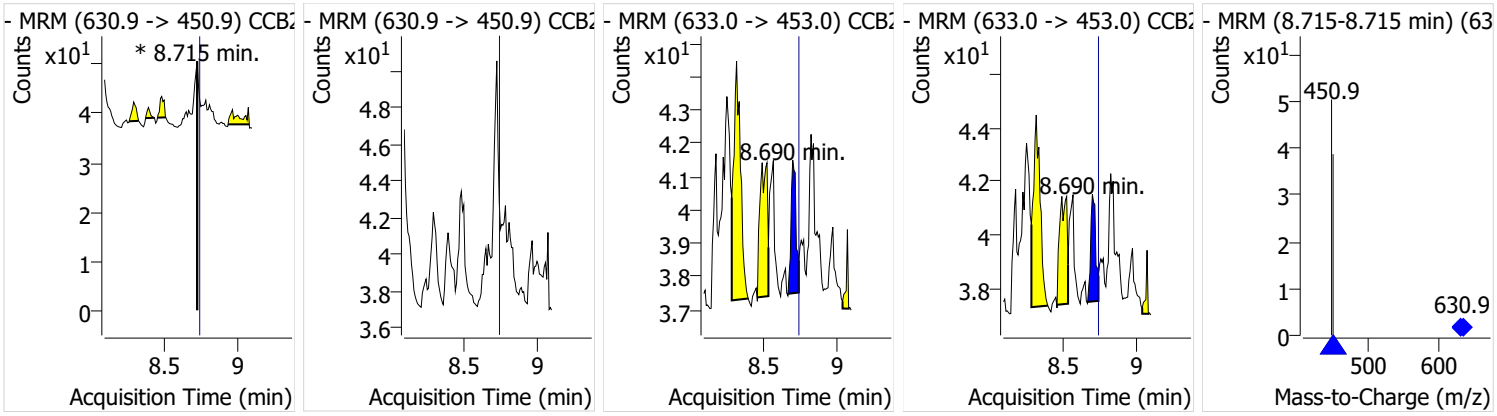
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
11Cl-PF3OUdS	8.715	0			13C3-HFPODA - ISTD	5.367	173636	-	ng/ml	✔	1	AMS 05/29/24
633.0 -> 453.0				*								
3:3FTCA	3.766	0			13C5-PFPeA - ISTD	4.220	209225	-	ng/ml	✔	1	AMS 05/29/24
241.0 -> 117.0				*								
4:2FTS	4.904	0			13C2-4:2FTS - ISTD	4.879	38295	-	ng/ml	✔	1	AMS 05/29/24
327.0 -> 80.9				*								
5:3FTCA	5.509	0			13C5-PFHxA - ISTD	5.109	150398	-	ng/ml	✔	1	AMS 05/29/24
341.0 -> 217.0				*								
6:2FTS	6.114	0			13C2-6:2FTS - ISTD	6.114	28571	-	ng/ml	✔	1	AMS 05/29/24
427.0 -> 80.9				*								
7:3FTCA	6.682	0			13C5-PFHxA - ISTD	5.109	150398	-	ng/ml	✔	1	AMS 05/29/24
441.0 -> 317.0				*								
8:2FTS	7.047	0			13C2-8:2FTS - ISTD	7.039	26416	-	ng/ml	✔	1	AMS 05/29/24
527.0 -> 81.0				*								
9Cl-PF3ONS	7.826	0			13C3-HFPODA - ISTD	5.367	173636	-	ng/ml	✔	1	AMS 05/29/24
533.0 -> 353.0				*								
ADONA	5.962	0			13C3-HFPODA - ISTD	5.367	173636	-	ng/ml	✔	1	AMS 05/29/24
377.0 -> 85.1				*								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA	5.368	0			13C3-HFPODA - ISTD	5.367	173636	-	ng/ml	✔	1	AMS 05/29/24
285.0 -> 184.9				*								
NEtFOSA	10.373	0			D5-NEtFOSA - ISTD	10.362	26030	-	ng/ml	✔	1	AMS 05/29/24
526.0 -> 219.0				*								
NEtFOSAA	7.470	0			D5-NEtFOSAA - ISTD	7.461	84598	-	ng/ml	✔	1	AMS 05/29/24
584.0 -> 526.0				*								
NEtFOSE	10.253	0			D9-NEtFOSE - ISTD	10.236	320964	-	ng/ml	✔	1	AMS 05/29/24
NFDHA	5.040	0			13C5-PFHxA - ISTD	5.109	150398	-	ng/ml	✔	1	AMS 05/29/24
295.0 -> 85.0				*								
NMeFOSA	10.135	0			D3-NMeFOSA - ISTD	10.051	22639	-	ng/ml	✔	1	AMS 05/29/24
512.0 -> 219.0				*								
NMeFOSAA	7.324	0			D3-NMeFOSAA - ISTD	7.274	165426	-	ng/ml	✔	1	AMS 05/29/24
570.0 -> 418.9				*								
NMeFOSE	9.924	0			D7-NMeFOSE - ISTD	9.890	252651	-	ng/ml	✔	1	AMS 05/29/24
PFBA	2.295	0			13C4-PFBA - ISTD	2.623	258548	-	ng/ml	✔	1	AMS 05/29/24
PFBS	5.309	0			13C3-PFBS - ISTD	5.120	65664	-	ng/ml	✔	1	AMS 05/29/24
298.9 -> 98.8				*								
PFDA	7.204	0			13C6-PFDA - ISTD	7.261	78276	-	ng/ml	✔	1	AMS 05/29/24
513.0 -> 219.0				*								
PFDoA	8.252	0			13C2-PFDoA - ISTD	8.145	73858	-	ng/ml	✔	1	AMS 05/29/24
613.0 -> 319.0				*								
PFDoS	9.214	0			13C8-PFOS - ISTD	7.492	39924	-	ng/ml	✔	1	AMS 05/29/24
698.9 -> 99.0				*								
PFDS	8.618	0			13C8-PFOS - ISTD	7.492	39924	-	ng/ml	✔	1	AMS 05/29/24
599.0 -> 98.8				*								
PFEESA	5.544	0			13C5-PFHxA - ISTD	5.109	150398	-	ng/ml	✔	1	AMS 05/29/24
315.0 -> 83.0				*								
PFHpA	5.781	0			13C4-PFHpA - ISTD	5.789	198496	-	ng/ml	✔	1	AMS 05/29/24
362.9 -> 169.0				*								
PFHpS	7.085	0			13C8-PFOS - ISTD	7.492	39924	-	ng/ml	✔	1	AMS 05/29/24
449.0 -> 98.8				*								

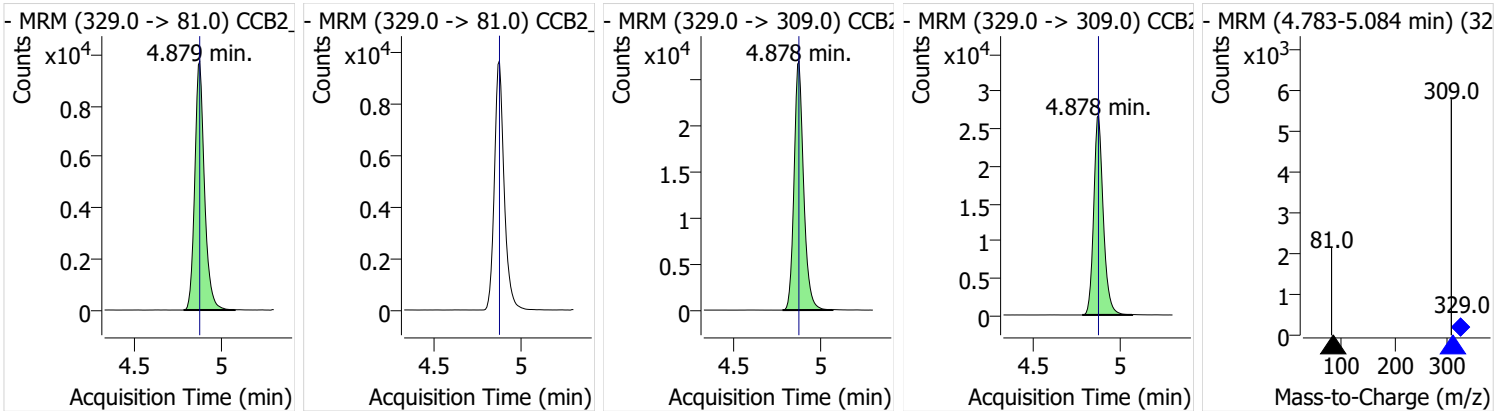
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFHxA	5.111	0			13C5-PFHxA - ISTD	5.109	150398	-	ng/ml	✔	1	AMS 05/29/24
313.0 -> 118.9				*								
PFHxS	6.497	0			13C3-PFHxS - ISTD	6.496	45213	-	ng/ml	✔	1	AMS 05/29/24
398.9 -> 99.0				*								
PFMBA	4.573	0			13C5-PFPeA - ISTD	4.220	209225	-	ng/ml	✔	1	AMS 05/29/24
PFMPA	3.399	0			13C5-PFPeA - ISTD	4.220	209225	-	ng/ml	✔	1	AMS 05/29/24
PFNA	6.804	0			13C9-PFNA - ISTD	6.804	83106	-	ng/ml	✔	1	AMS 05/29/24
463.0 -> 219.0				*								
PFNS	8.009	0			13C8-PFOS - ISTD	7.492	39924	-	ng/ml	✔	1	AMS 05/29/24
549.0 -> 98.8				*								
PFOA	6.329	0			13C8-PFOA - ISTD	6.328	179788	-	ng/ml	✔	1	AMS 05/29/24
413.0 -> 169.0				*								
PFOS	7.501	0			13C8-PFOS - ISTD	7.492	39924	-	ng/ml	✔	1	AMS 05/29/24
499.0 -> 99.0				*								
PFOSA	8.710	0			13C8-PFOSA - ISTD	8.709	73819	-	ng/ml	✔	1	AMS 05/29/24
497.9 -> 478.0				*								
PFPeA	4.222	0			13C5-PFPeA - ISTD	4.220	209225	-	ng/ml	✔	1	AMS 05/29/24
263.0 -> 69.0				*								
PFPeS	6.088	0			13C3-PFHxS - ISTD	6.496	45213	-	ng/ml	✔	1	AMS 05/29/24
349.0 -> 98.9				*								
PFTeDA	8.959	0			13C2-PFTeDA - ISTD	8.958	101278	-	ng/ml	✔	1	AMS 05/29/24
713.0 -> 168.9				*								
PFTrDA	8.565	0			13C2-PFDoA - ISTD	8.145	73858	-	ng/ml	✔	1	AMS 05/29/24
663.0 -> 168.9				*								
PFUnA	7.685	0			13C7-PFUnA - ISTD	7.709	71684	-	ng/ml	✔	1	AMS 05/29/24
563.0 -> 269.1				*								
TDCA	5.515	5	52.77					-	ng/ml			
499.0 -> 99.0			3.40	**100.7								
13C2-8:2FTS	7.038	53531	82204.94		18O2-PFHxS	6.495	40617	4.8259	ng/ml			
529.0 -> 81.0			7455.08	49.3								
13C2-4:2FTS	4.878	104671	22170.07		18O2-PFHxS	6.495	40617	5.0620	ng/ml			
329.0 -> 81.0			10088.06	36.6								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
13C2-6:2FTS	6.113	92298	1788338.73		18O2-PFHxS	6.495	40617	5.0219	ng/ml			
429.0 -> 81.0			9574.99	31.0								
13C5-PFHxA	5.109	150398	19495.69		13C2-PFHxA	5.110	131668	2.6959	ng/ml			
318.0 -> 120.0			293.39	1.7								
13C6-PFDA	7.261	78276	7800.44		13C2-PFDA	7.262	70234	1.3996	ng/ml			
13C7-PFUnA	7.709	71684	7569.55		13C2-PFDA	7.262	70234	1.3710	ng/ml			
13C8-PFOA	6.328	179788	25886.94		13C4-PFOA	6.329	20300	2.7067	ng/ml			
13C8-PFOS	7.492	39924	7937.81		13C4-PFOS	7.492	40183	2.6787	ng/ml			
507.0 -> 99.0			4409.01	54.5								
13C8-PFOSA	8.709	73819	45772.65		13C4-PFOS	7.492	40183	2.7410	ng/ml			
13C9-PFNA	6.804	83106	8495.93		13C5-PFNA	6.804	107024	1.2620	ng/ml			
13C5-PFPeA	4.220	209225	13264.84		13C2-PFHxA	5.110	131668	5.0577	ng/ml			
13C2-PFDoA	8.145	73858	11266.38		13C2-PFDA	7.262	70234	1.3686	ng/ml			
13C4-PFHpA	5.789	198496	24468.25		13C2-PFHxA	5.110	131668	2.7274	ng/ml			
13C4-PFBA	2.623	262433	79133.44		13C3-PFBA	2.625	113039	10.6275	ng/ml	✔	3	AMS 05/29/24
13C3-PFHxS	6.496	45213	18245.07		18O2-PFHxS	6.495	40617	2.7124	ng/ml			
402.0 -> 99.0			10126.72	52.3								
13C3-PFBS	5.120	65664	9636.11		18O2-PFHxS	6.495	40617	2.7223	ng/ml			
301.9 -> 98.9			5330.84	36.1								
13C3-HFPODA	5.367	173636	46835.95		13C2-PFHxA	5.110	131668	10.8525	ng/ml			
287.0 -> 185.0			12586.19	43.8								
13C2-PFTeDA	8.958	101278	103564.57		13C2-PFDA	7.262	70234	1.3917	ng/ml			
D9-NEtFOSE	10.236	320964	120510.76		13C4-PFOS	7.492	40183	36.8402	ng/ml			
D3-NMeFOSA	10.051	22639	12266.36		13C4-PFOS	7.492	40183	2.5732	ng/ml			
D3-NMeFOSAA	7.274	165426	52001.20		13C4-PFOS	7.492	40183	5.5394	ng/ml			
D5-NEtFOSA	10.362	26030	7925.41		13C4-PFOS	7.492	40183	2.9062	ng/ml			
D5-NEtFOSAA	7.461	84598	8557.62		13C4-PFOS	7.492	40183	5.6585	ng/ml			
D7-NMeFOSE	9.890	252651	112378.05		13C4-PFOS	7.492	40183	31.0313	ng/ml			

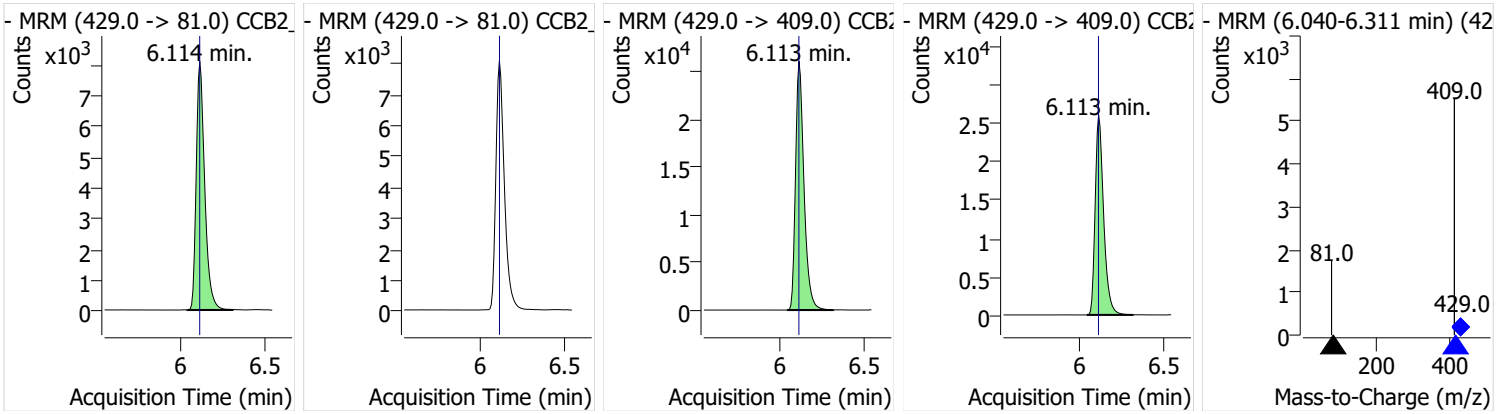
11Cl-PF3OUdS



13C2-4:2FTS - ISTD



13C2-6:2FTS - ISTD



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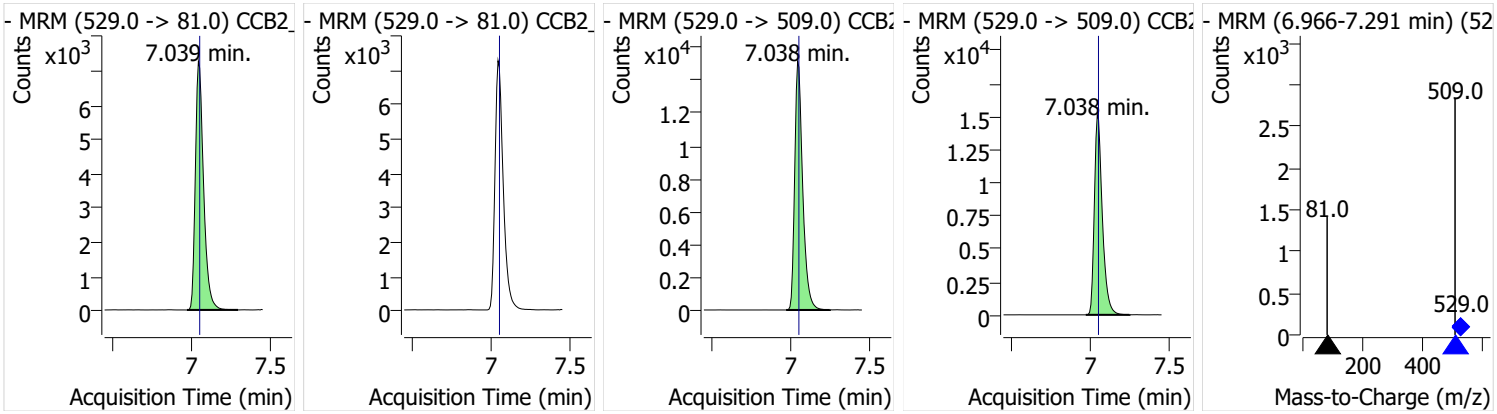
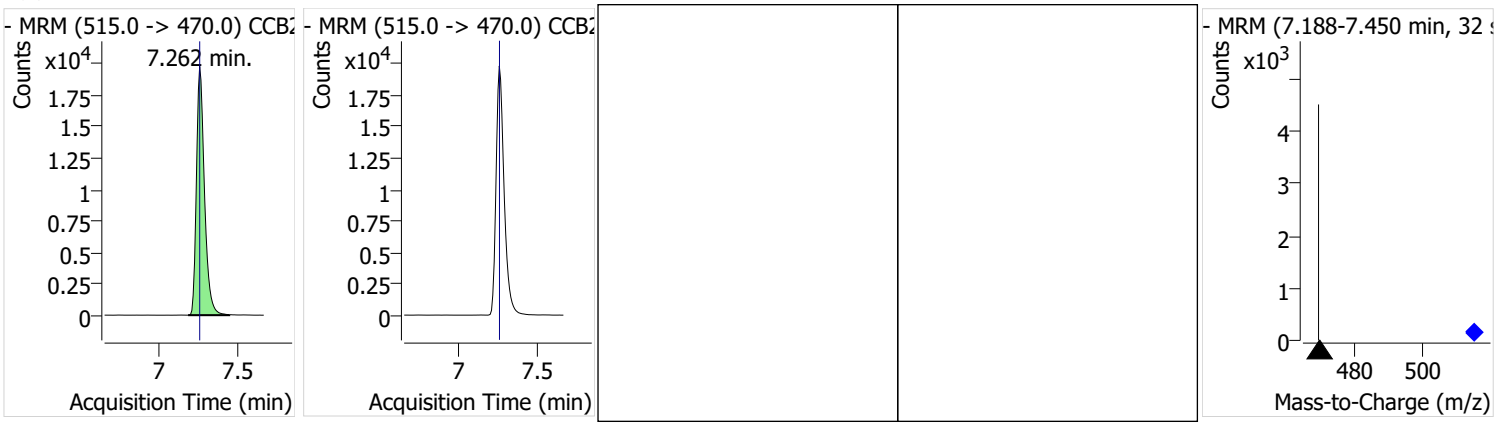
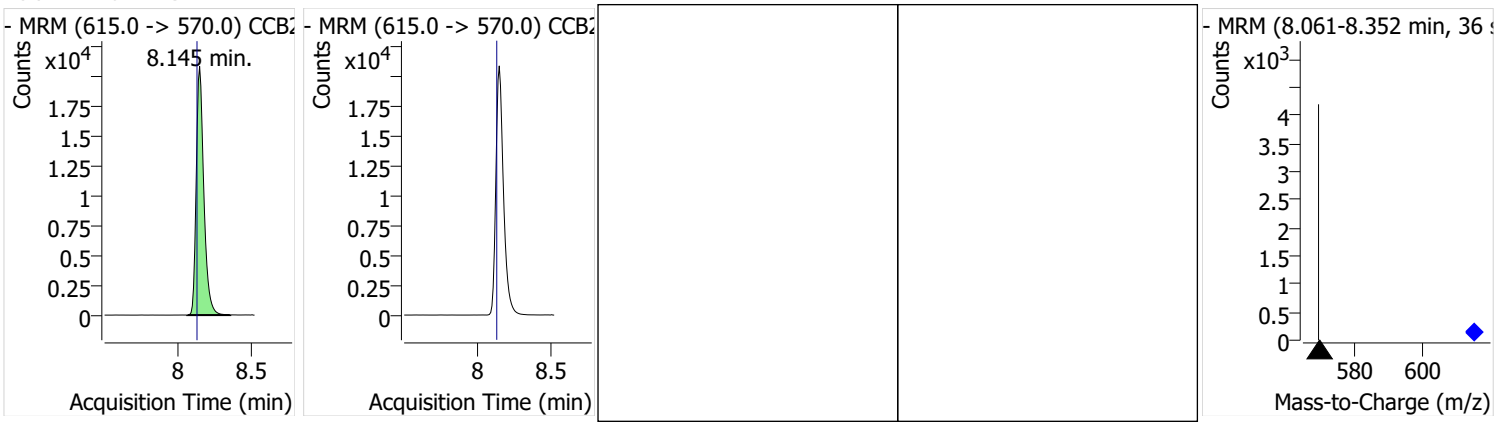


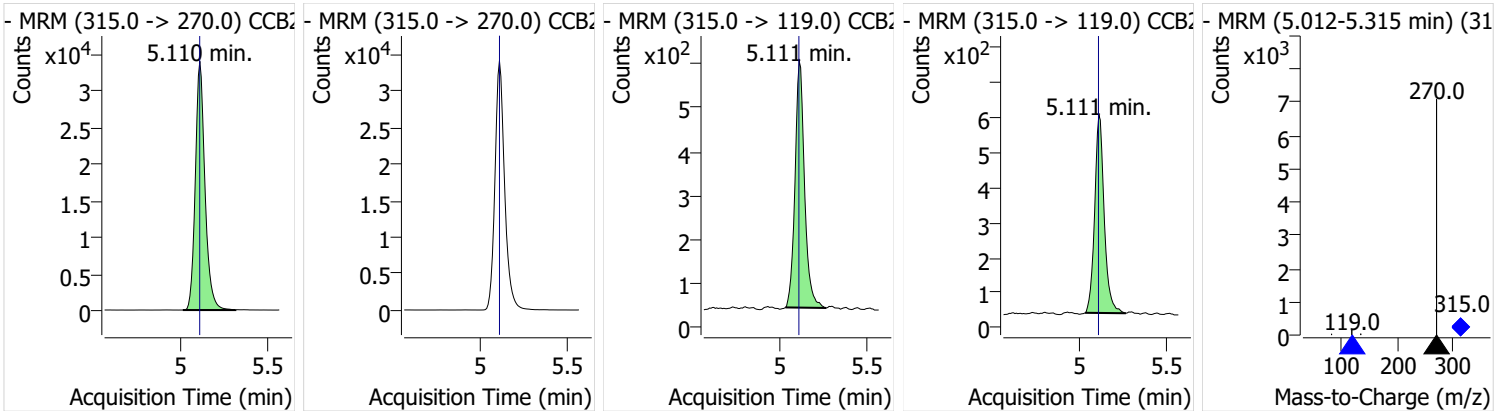
13C2-PFDA



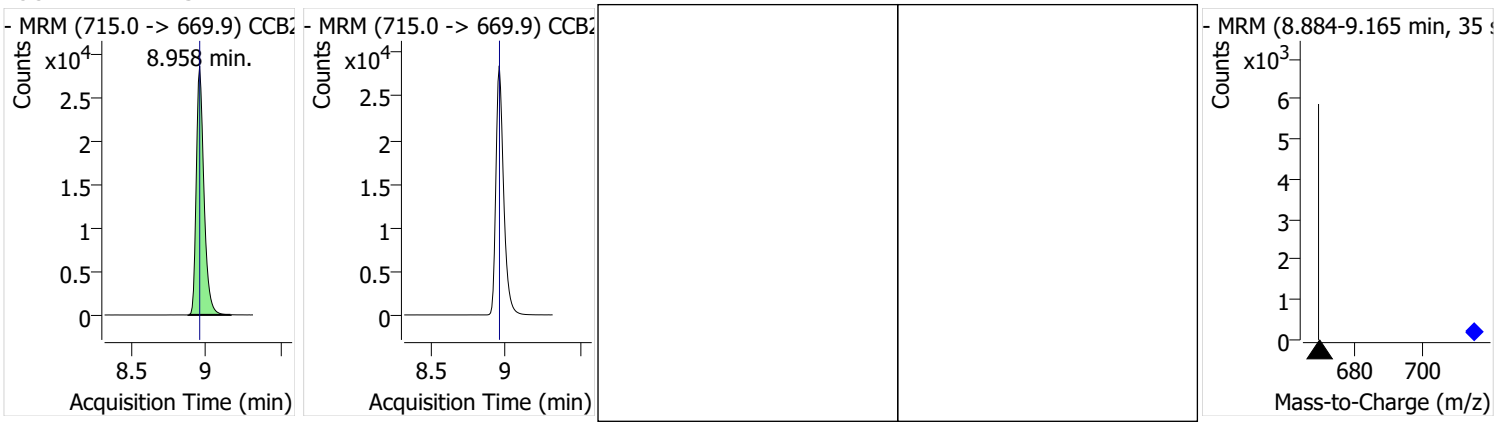
13C2-PFDoA - ISTD



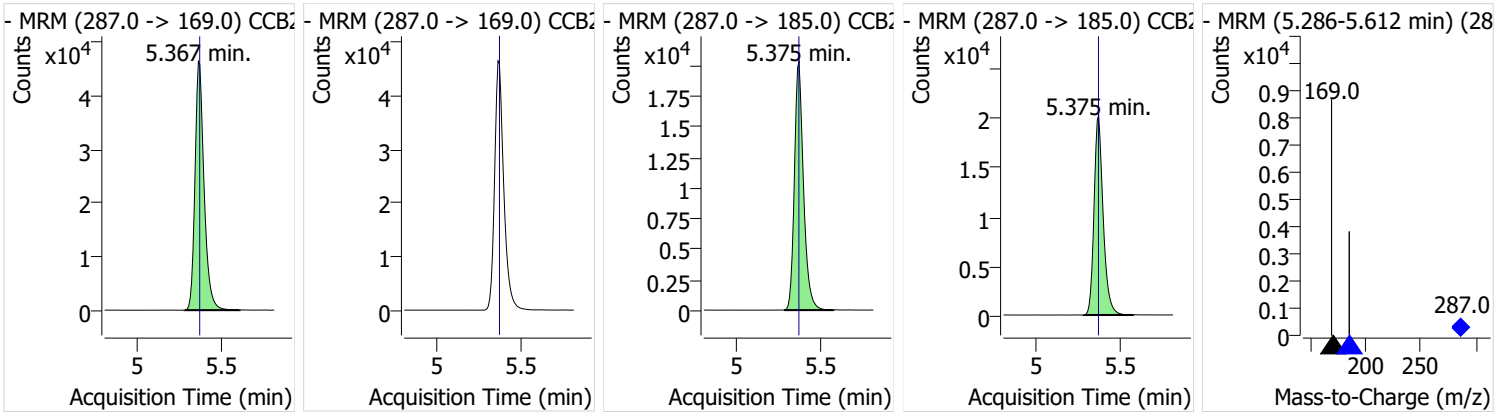
13C2-PFHxA



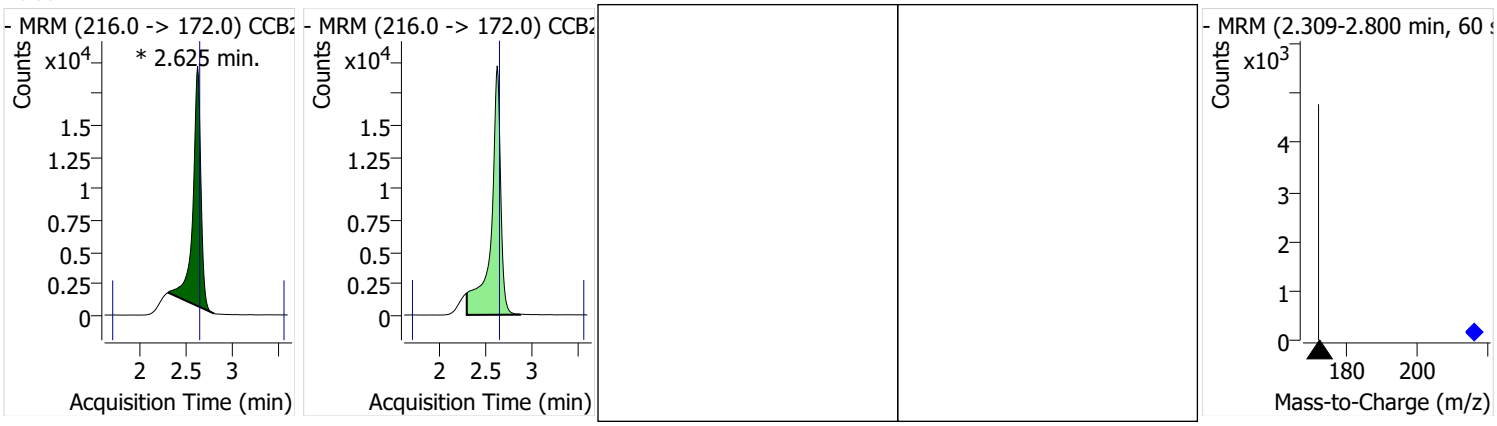
13C2-PFTeDA - ISTD



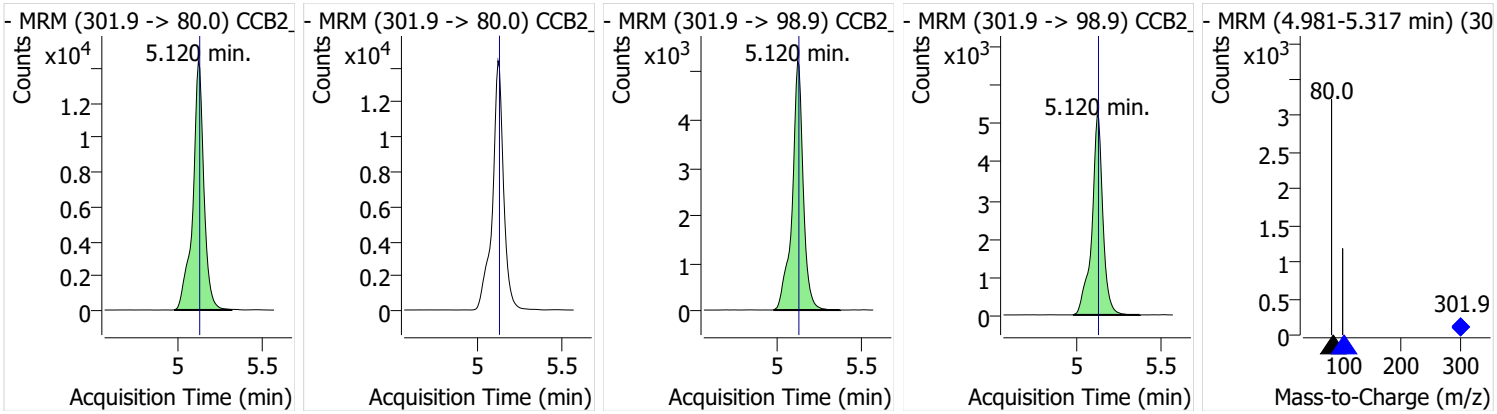
13C3-HFPODA - ISTD



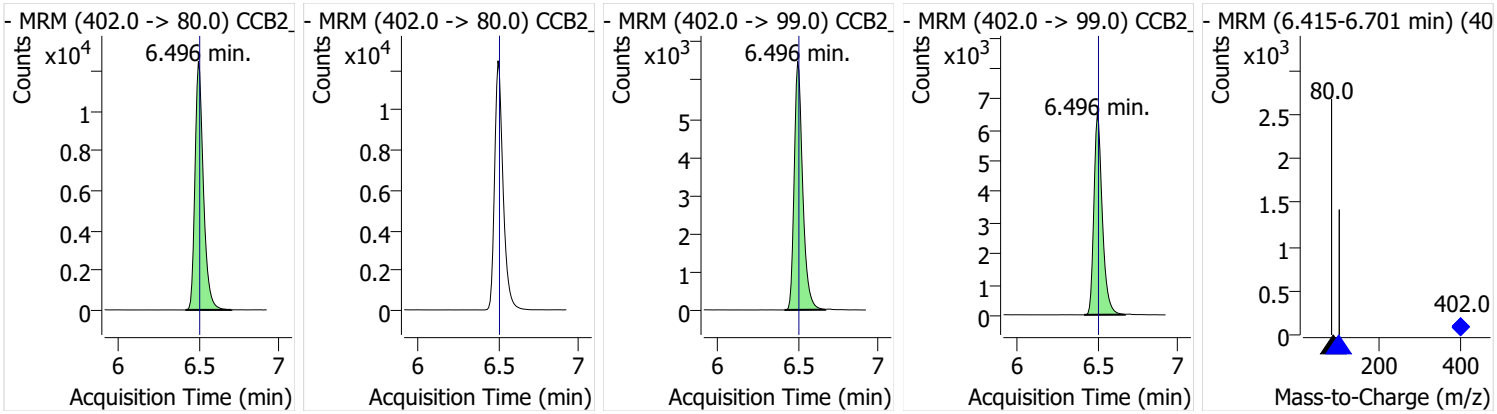
13C3-PFBA



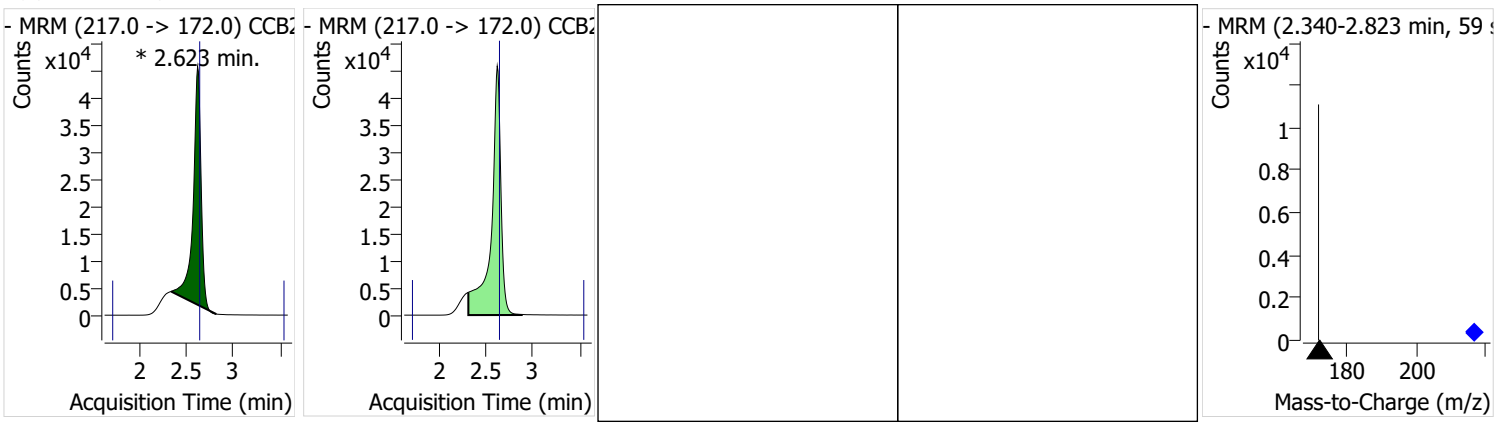
13C3-PFBS - ISTD



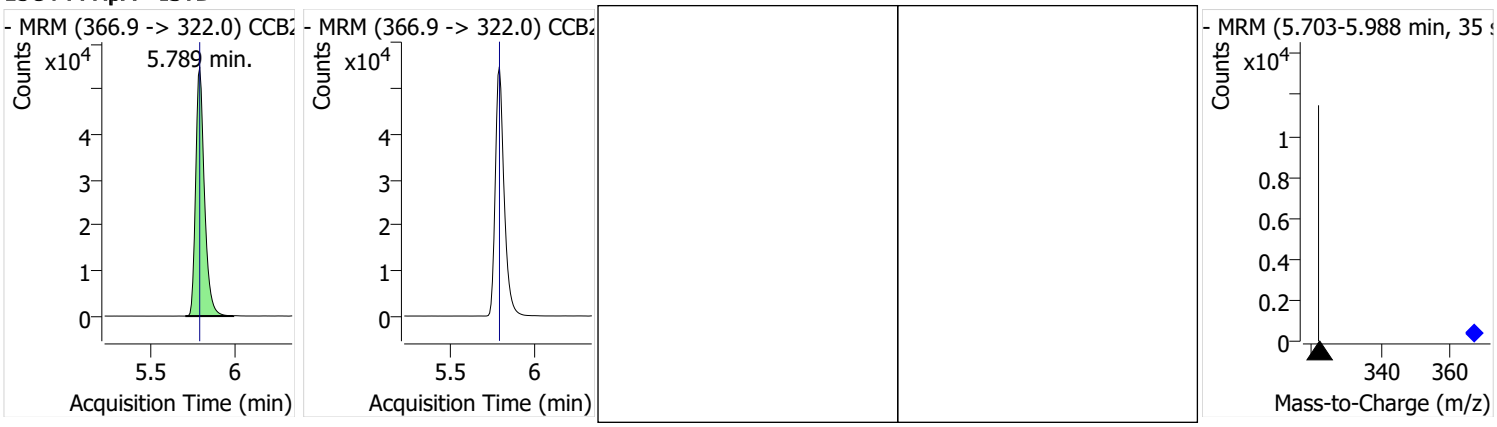
13C3-PFHxS - ISTD



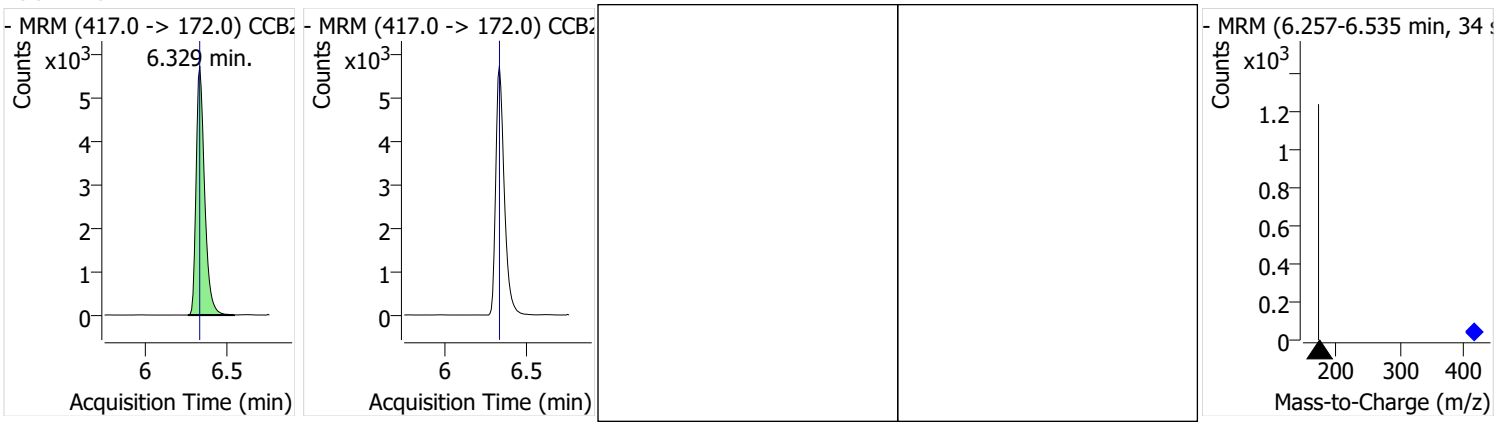
13C4-PFBA - ISTD



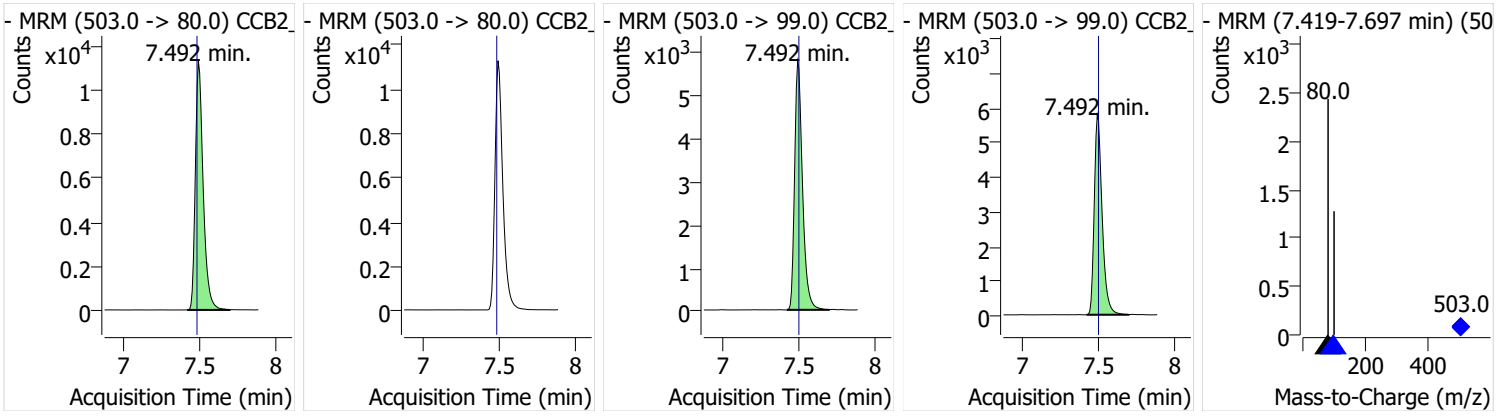
13C4-PFHpA - ISTD



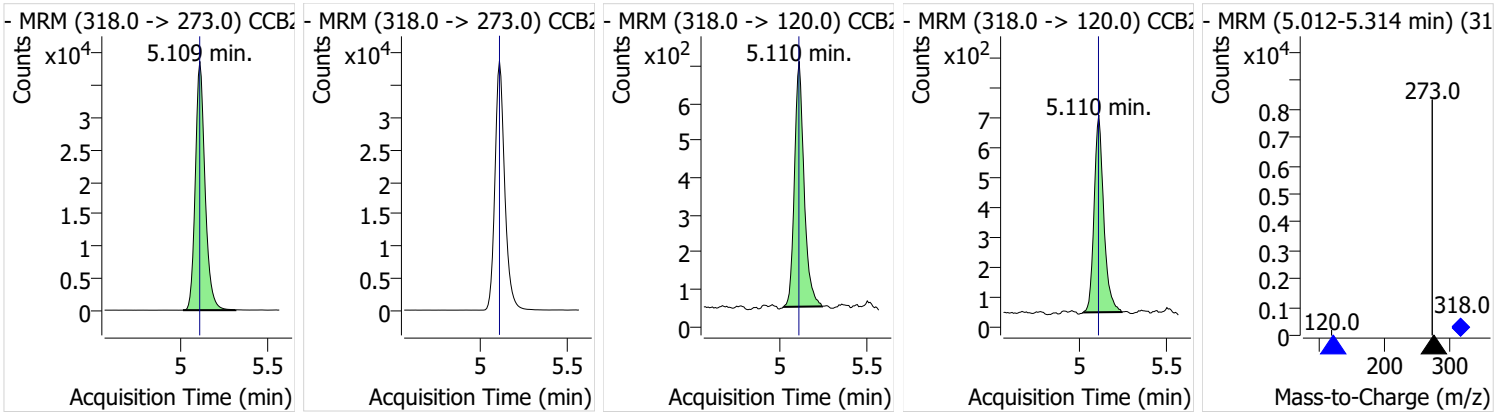
13C4-PFOA



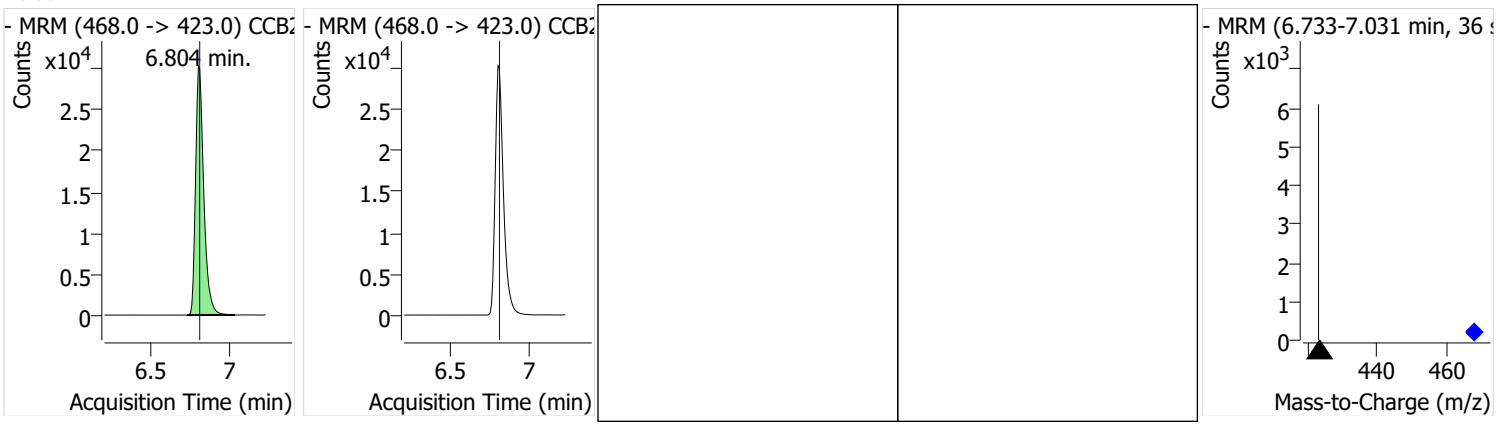
13C4-PFOS



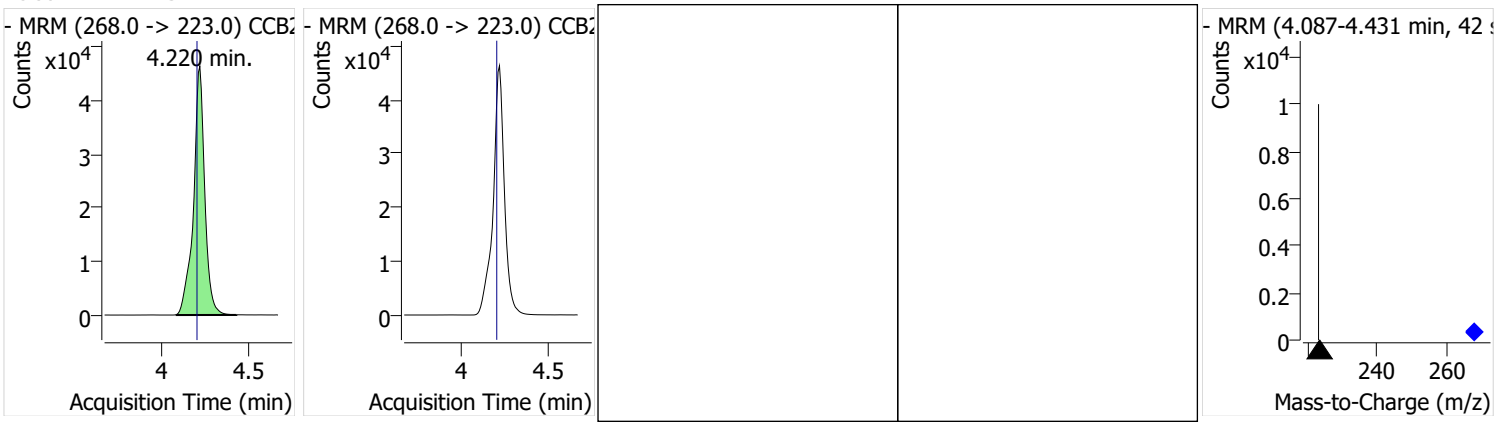
13C5-PFHxA - ISTD



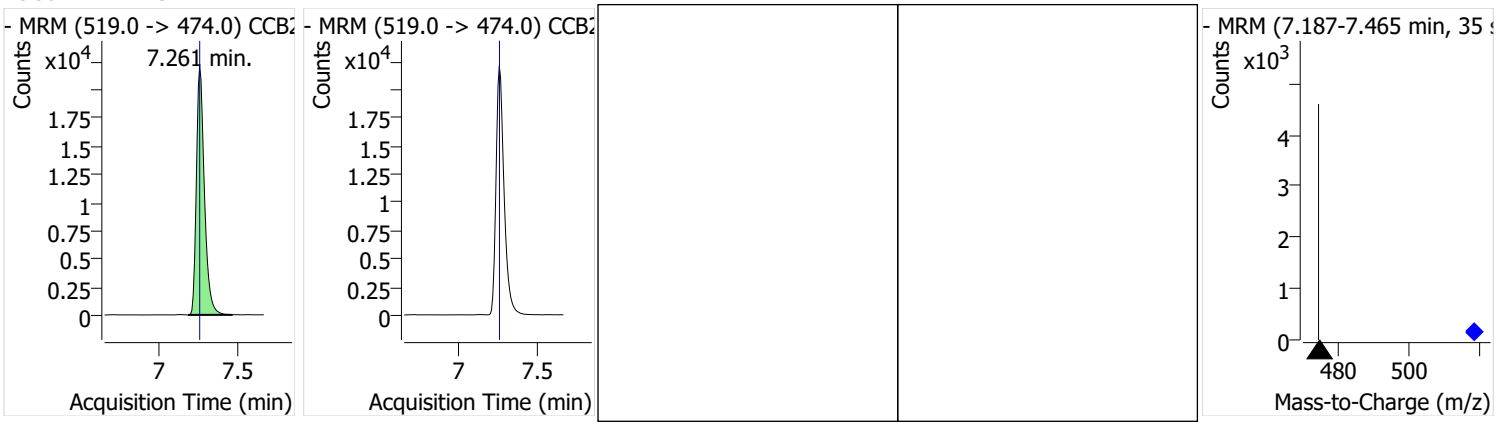
13C5-PFNA



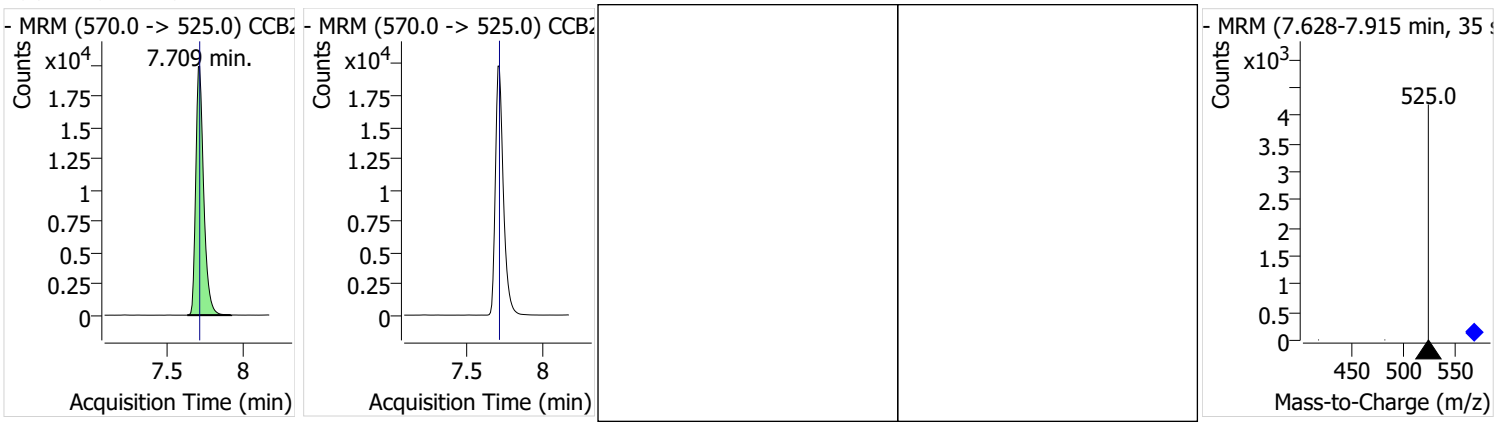
13C5-PFPeA - ISTD



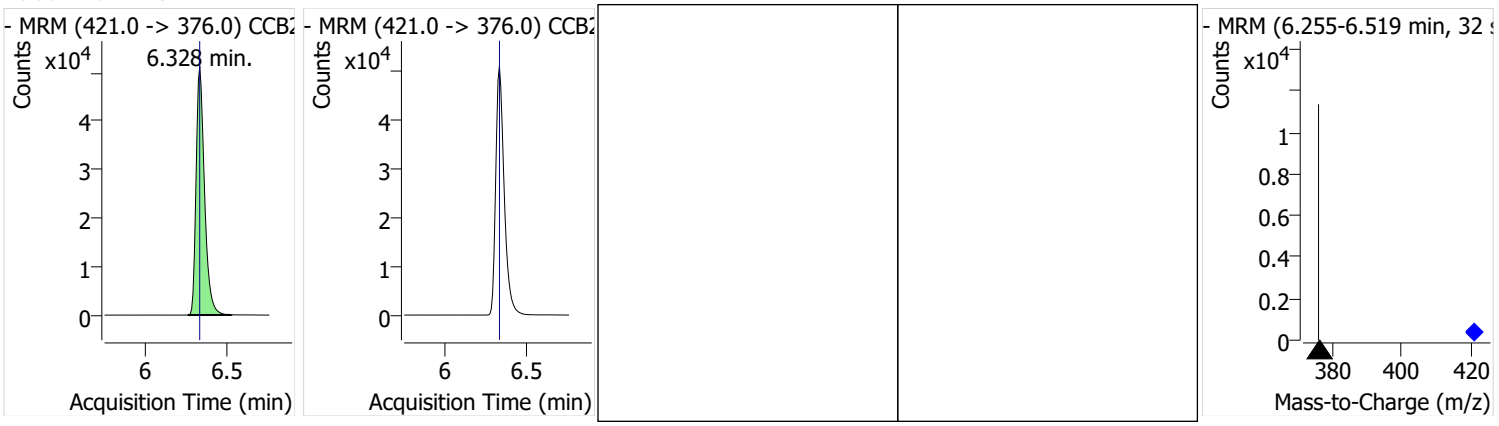
13C6-PFDA - ISTD



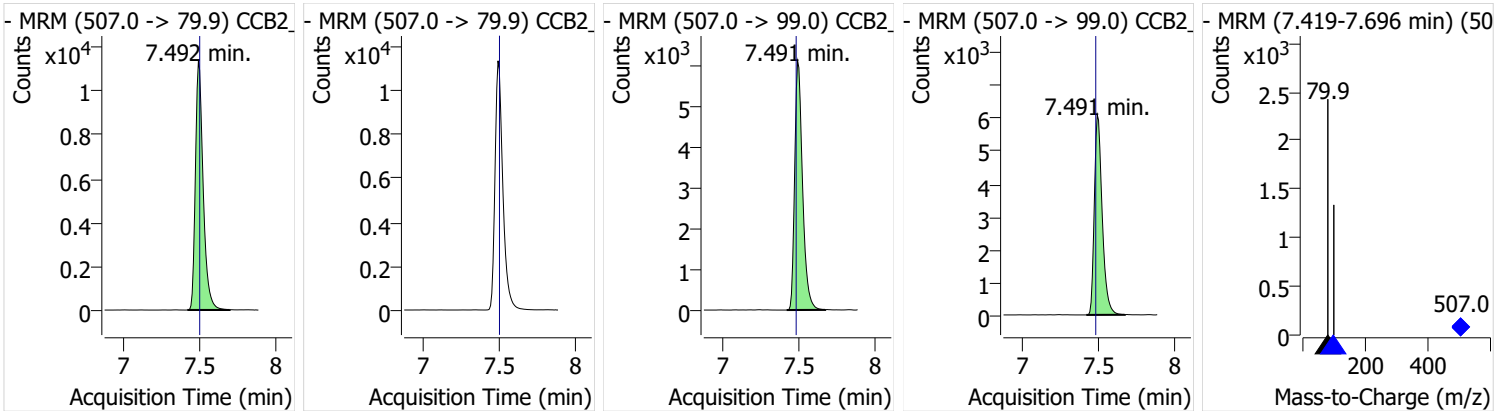
13C7-PFUnA - ISTD



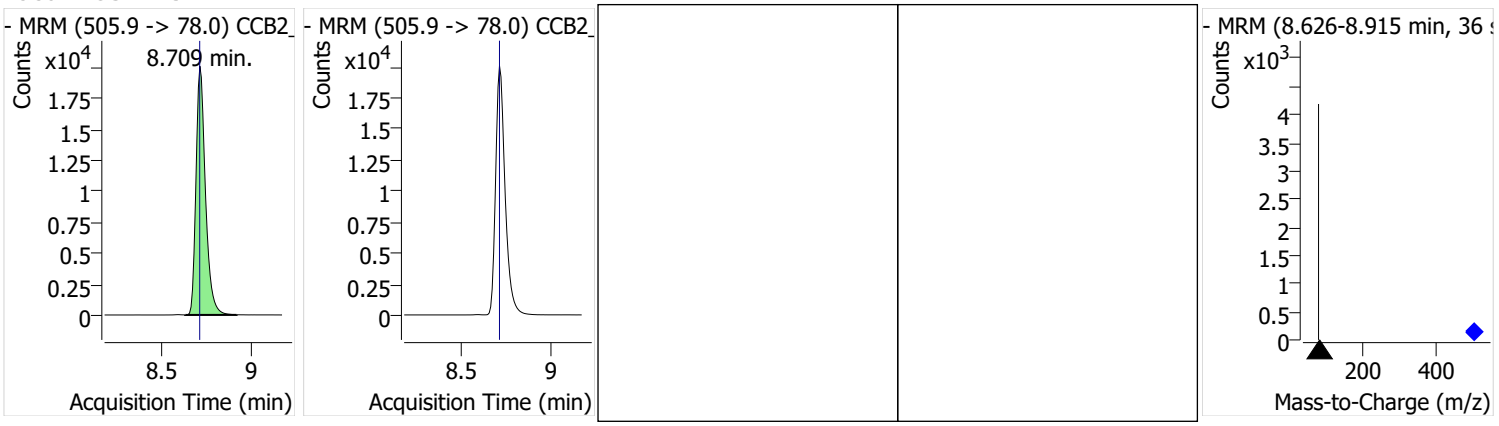
13C8-PFOA - ISTD



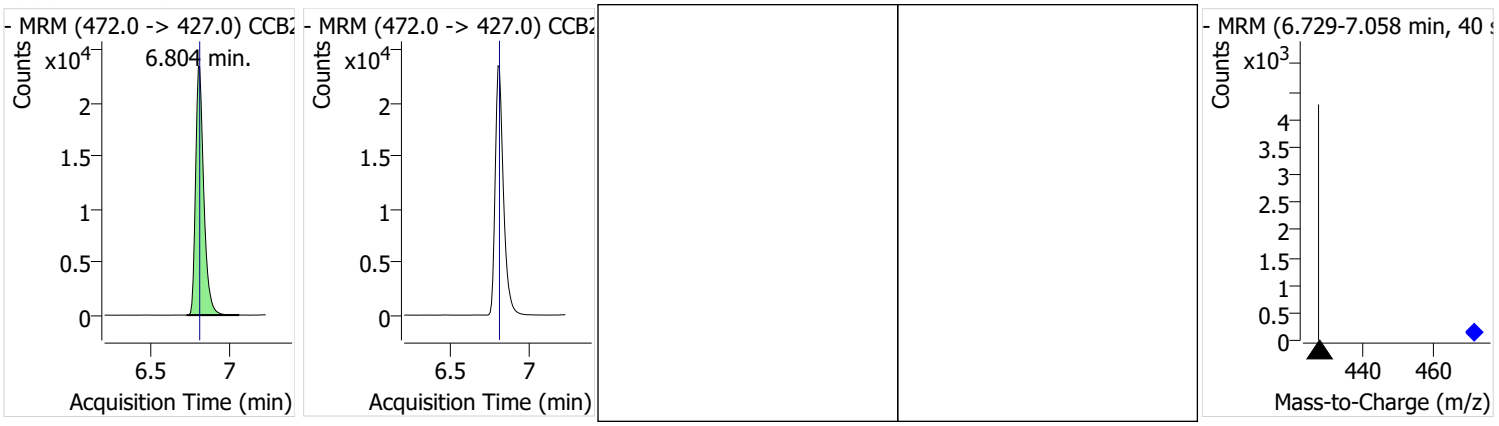
13C8-PFOS - ISTD



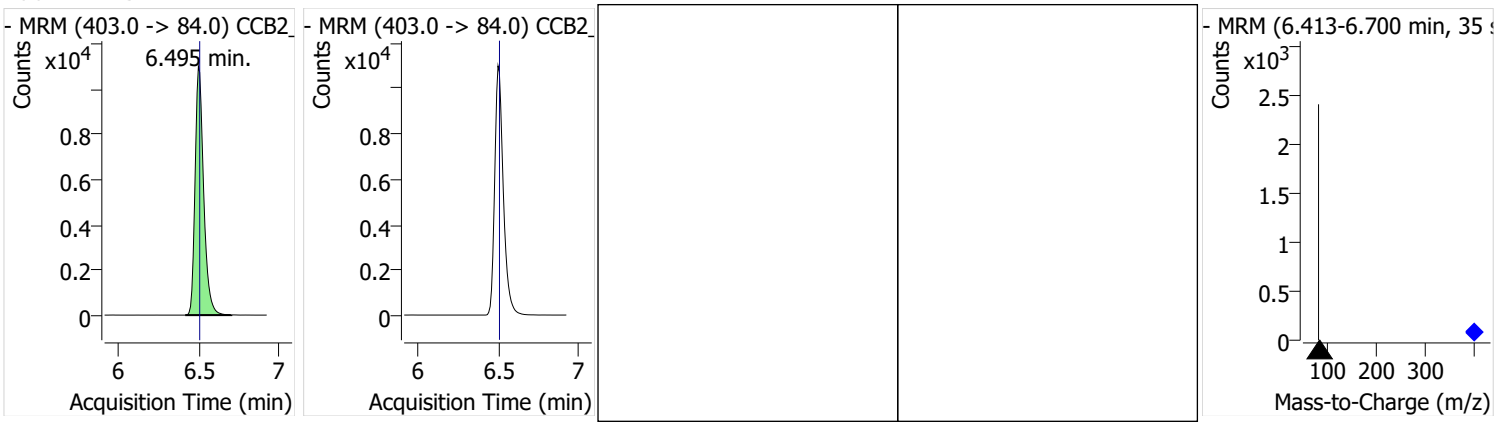
13C8-PFOSA - ISTD



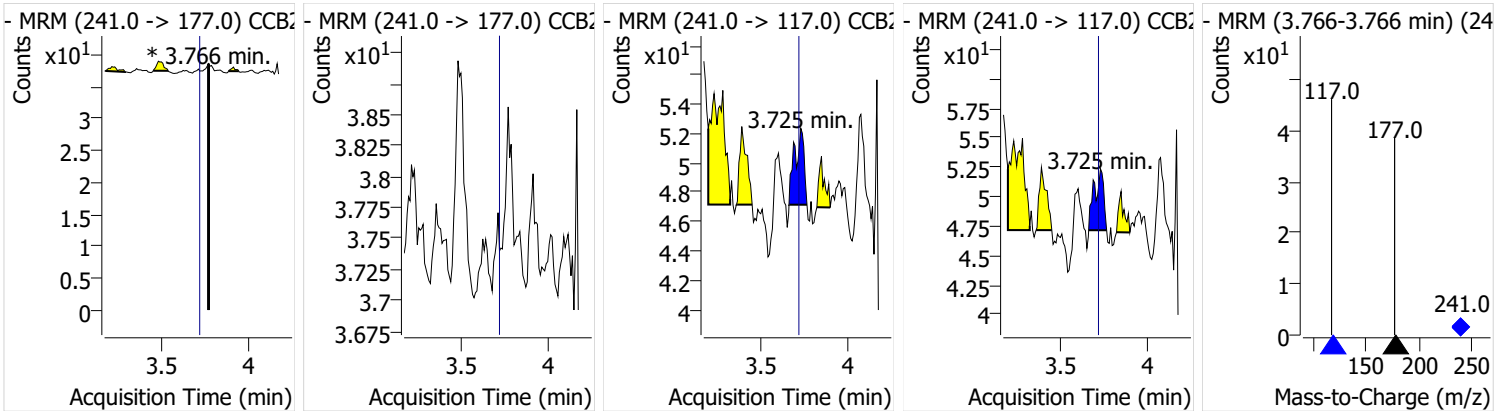
13C9-PFNA - ISTD



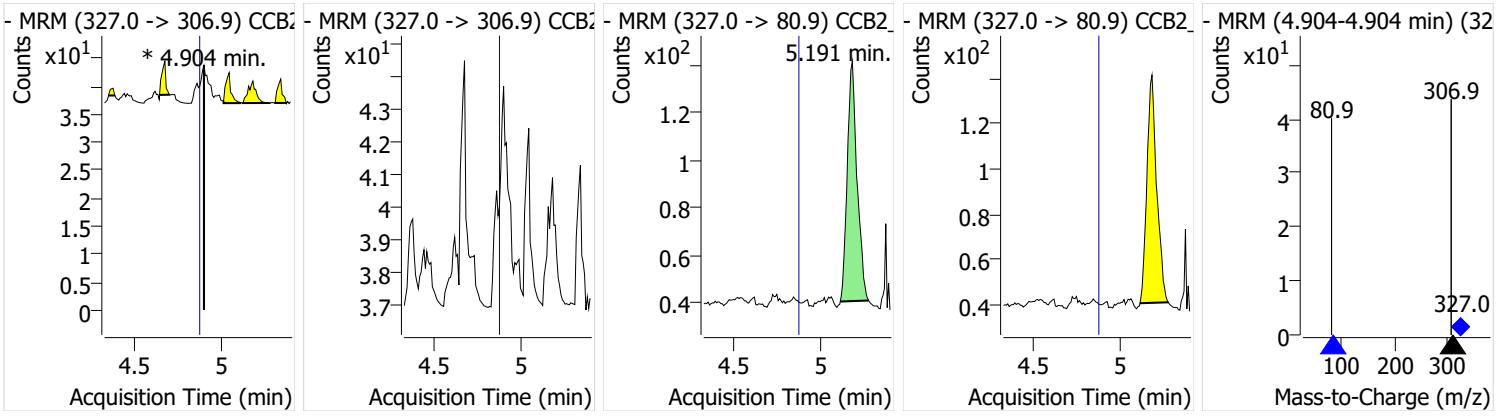
18O2-PFHxS



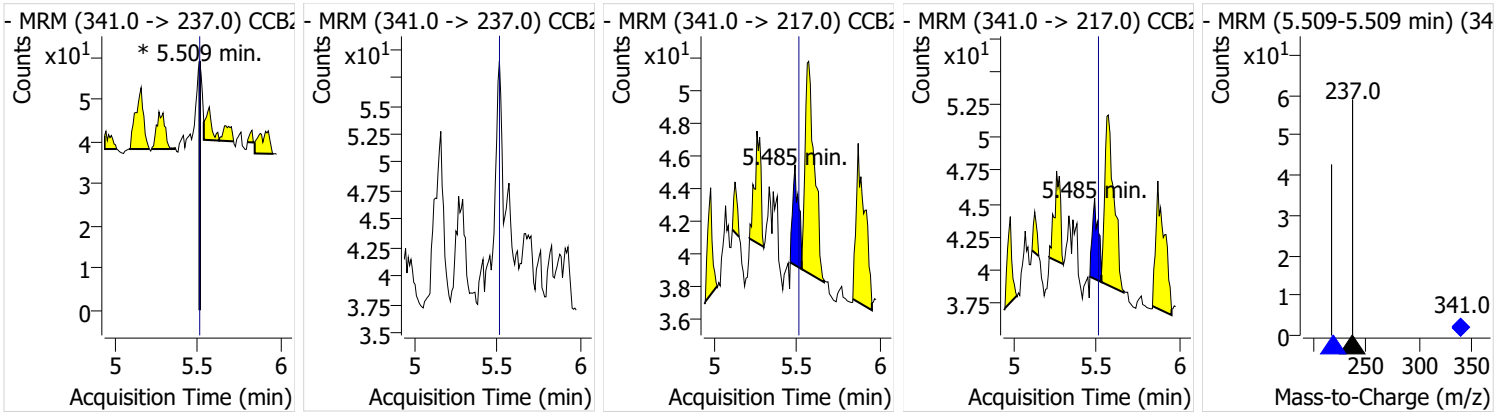
3:3FTCA



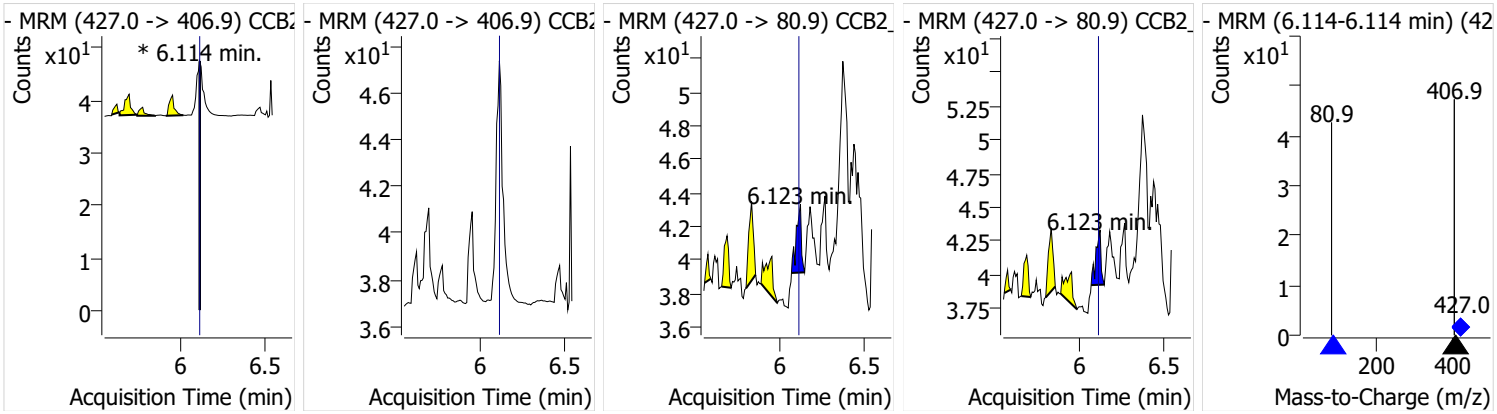
4:2FTS



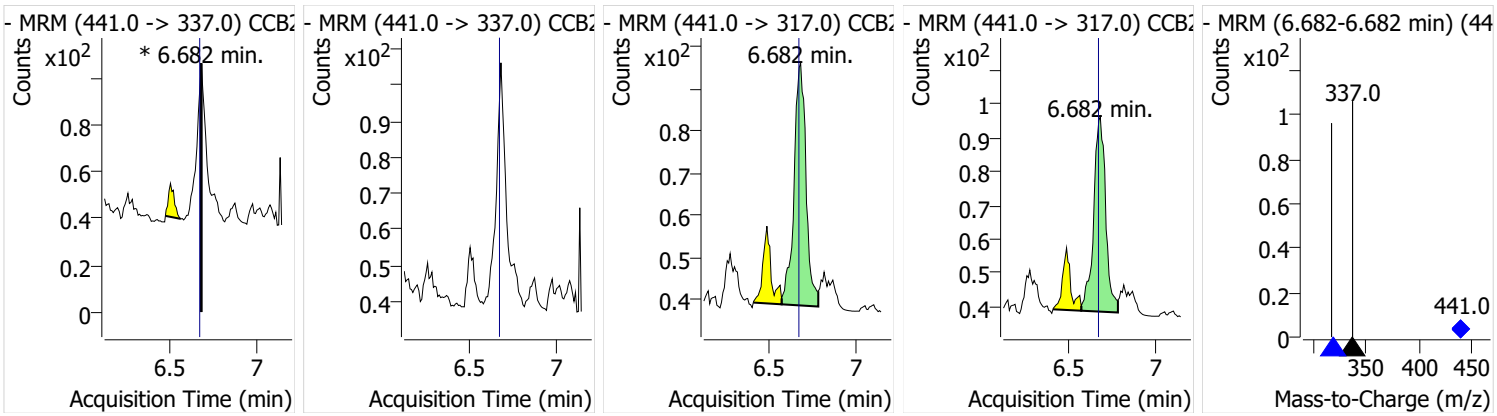
5:3FTCA



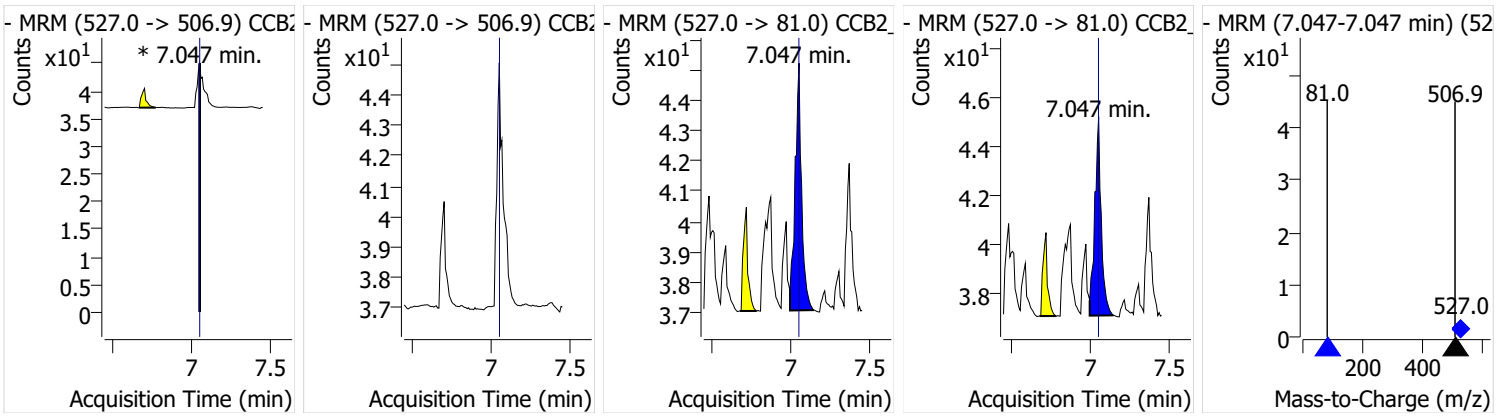
6:2FTS



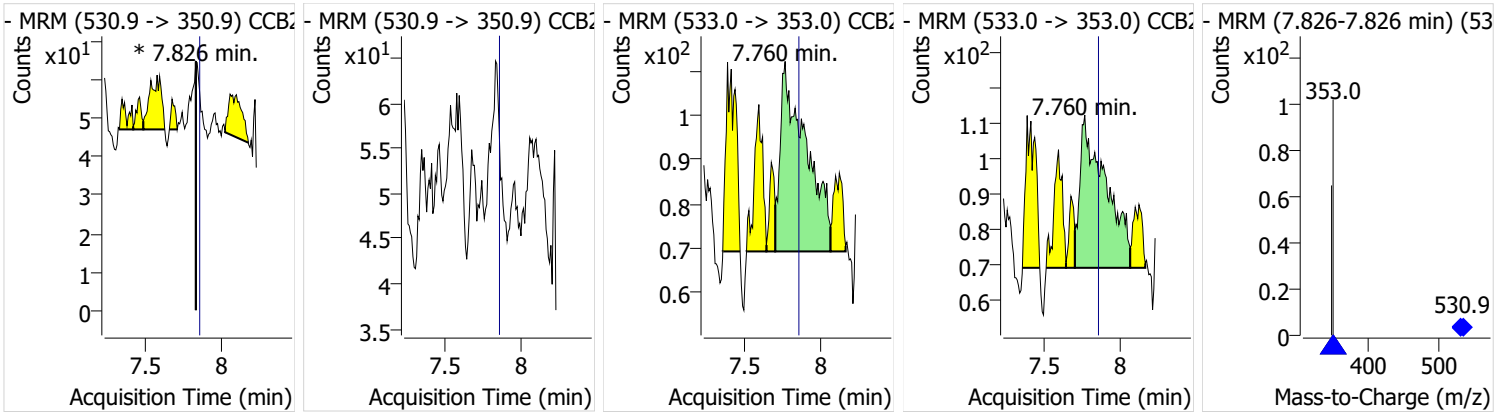
7:3FTCA



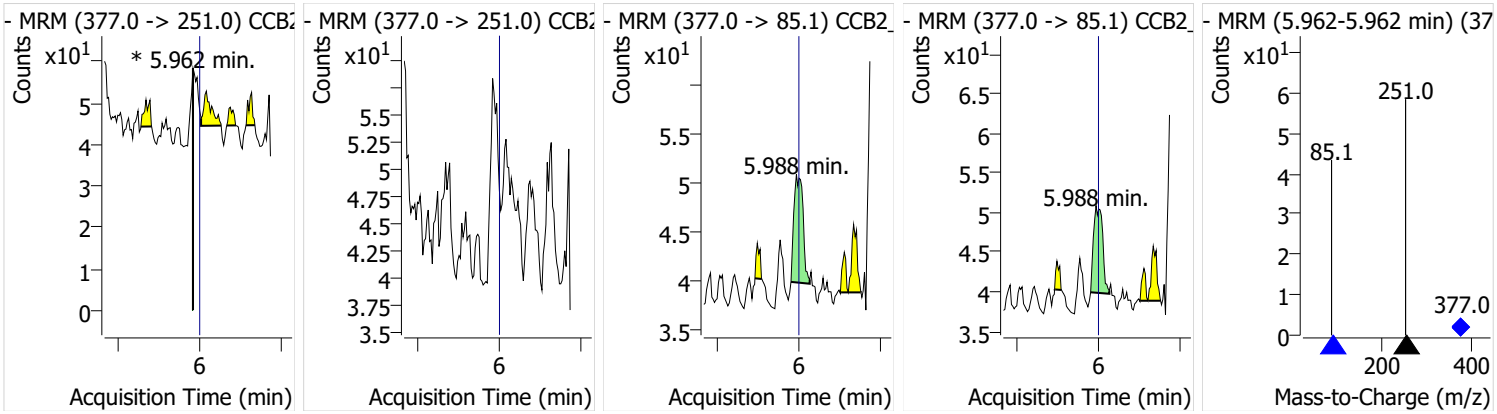
8:2FTS



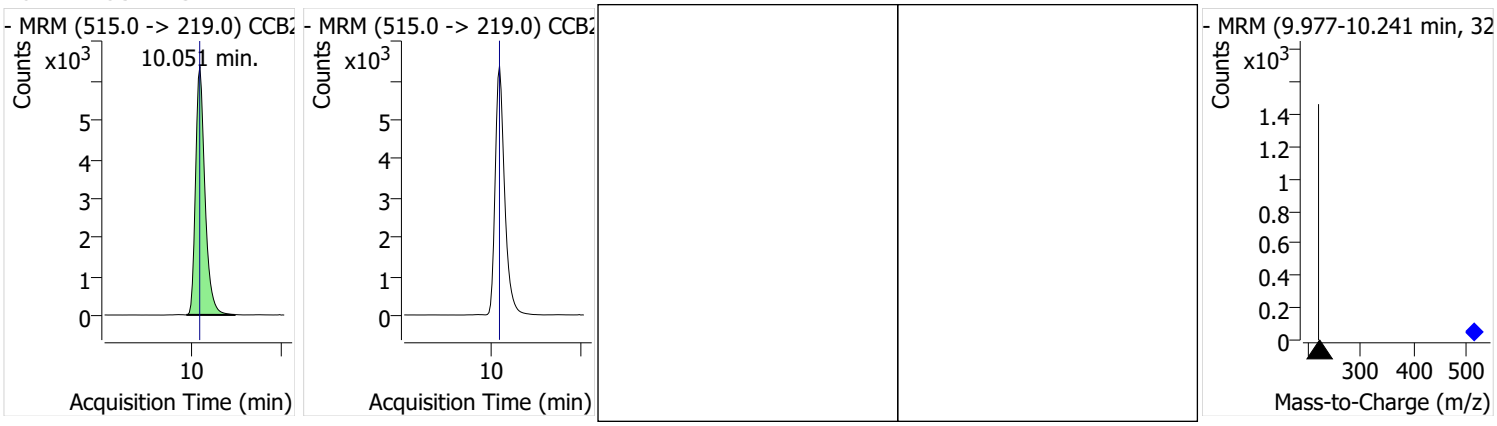
9Cl-PF3ONS



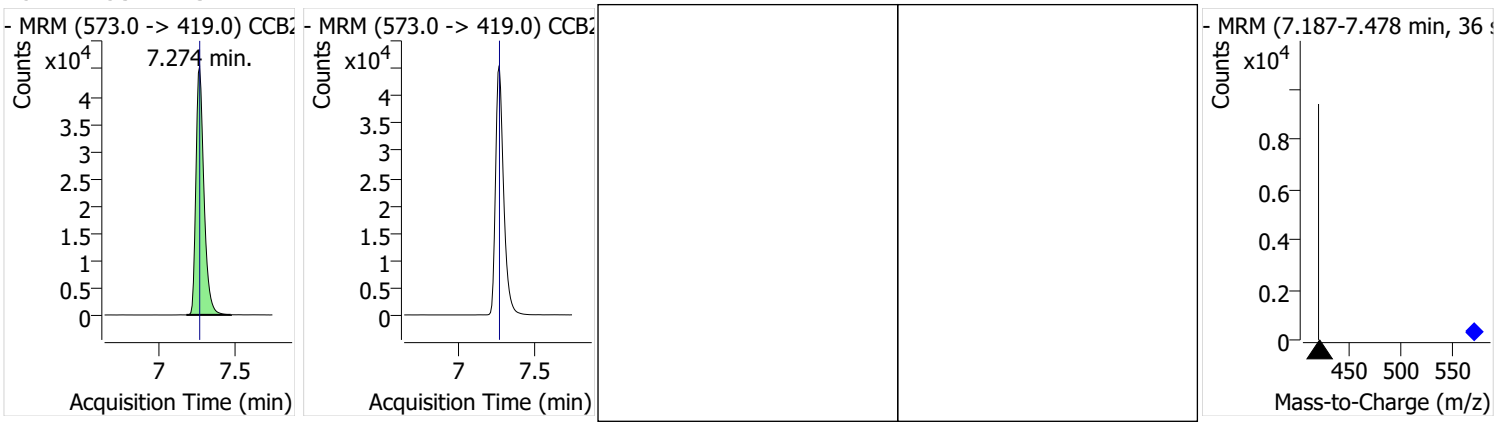
ADONA



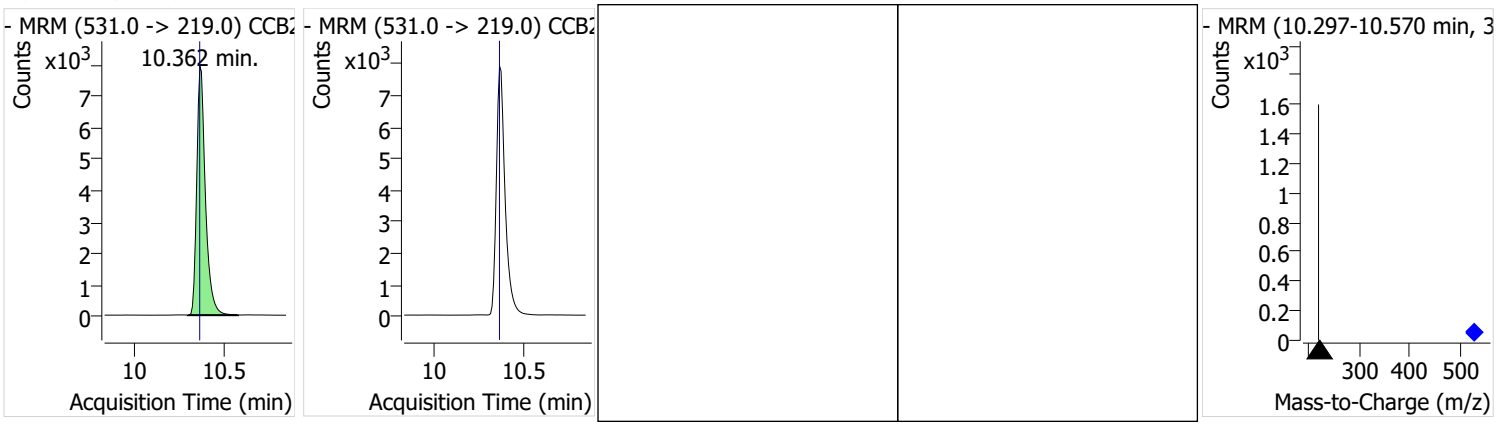
D3-NMeFOSA - ISTD



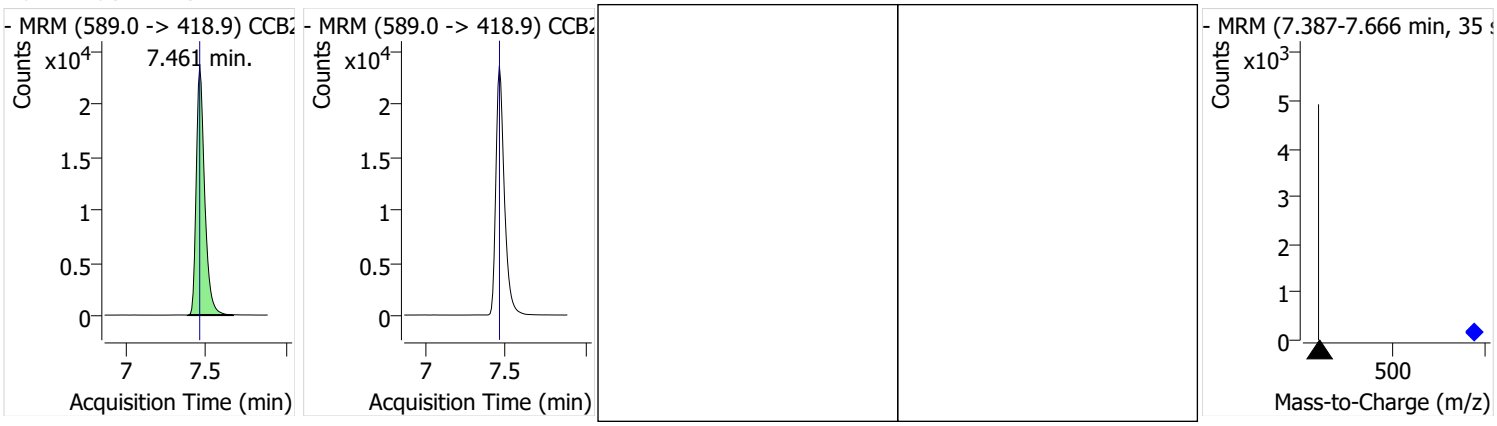
D3-NMeFOSAA - ISTD



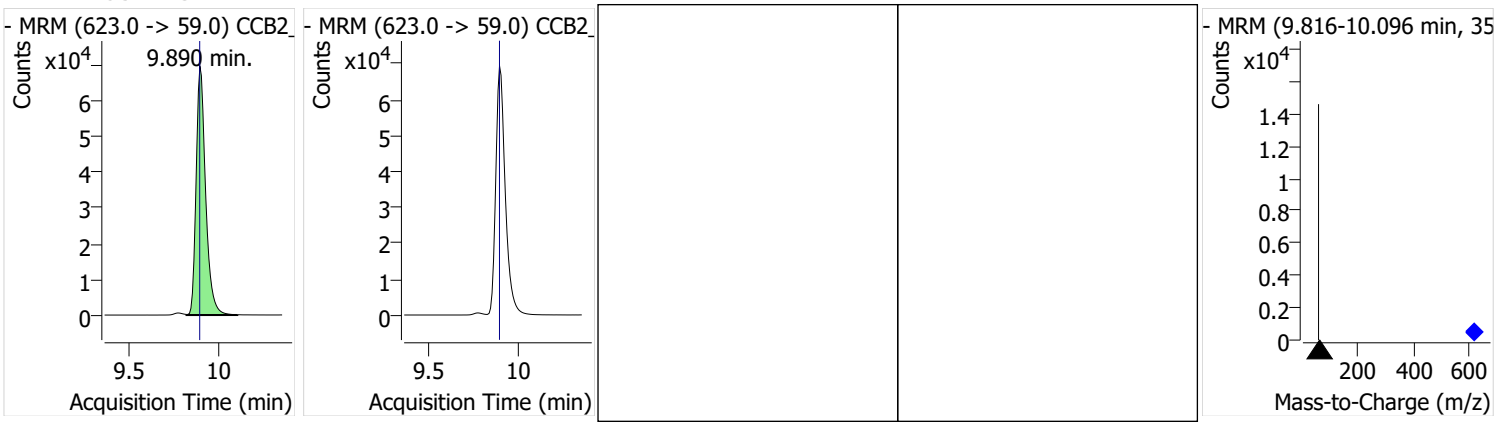
D5-NEtFOSA - ISTD



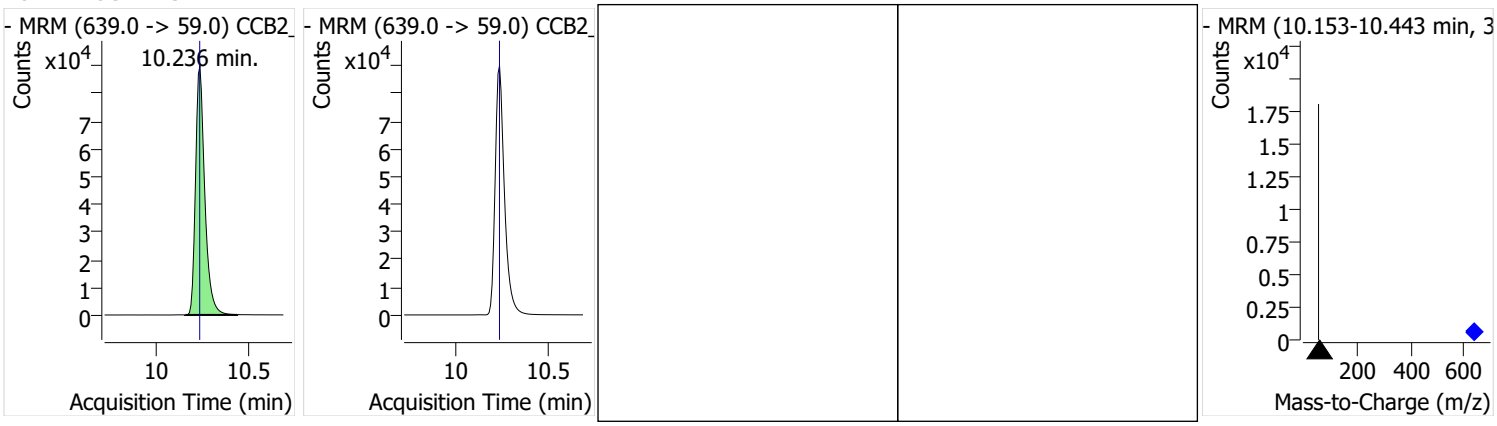
D5-NEtFOSAA - ISTD



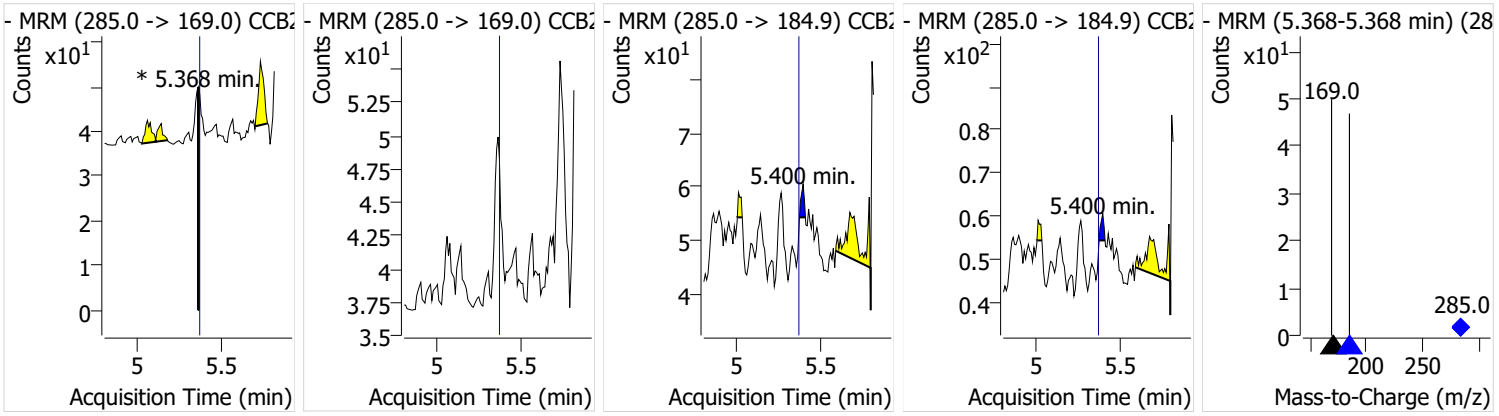
D7-NMeFOSE - ISTD



D9-NEtFOSE - ISTD



HFPO-DA



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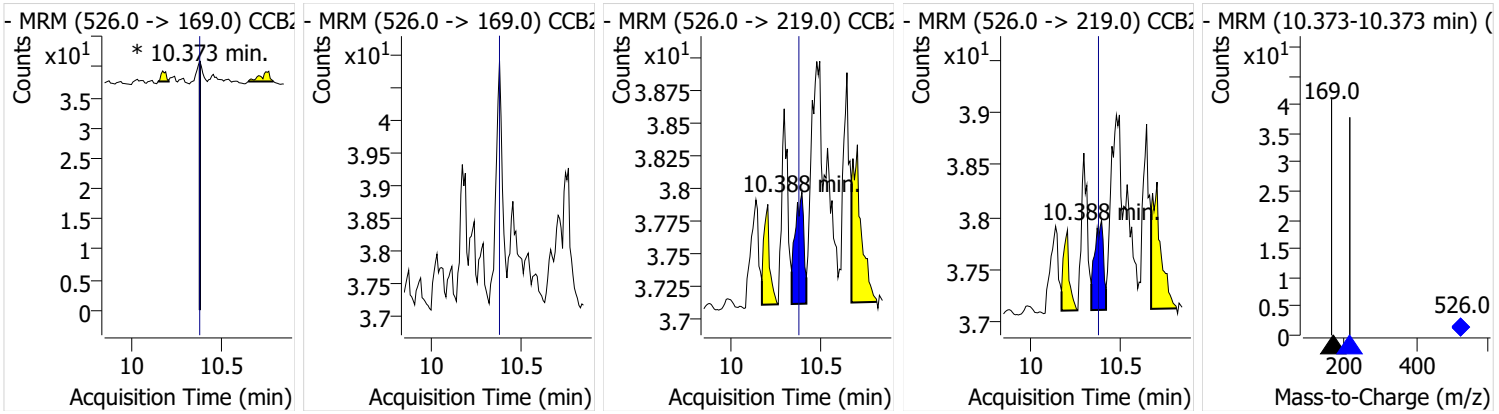

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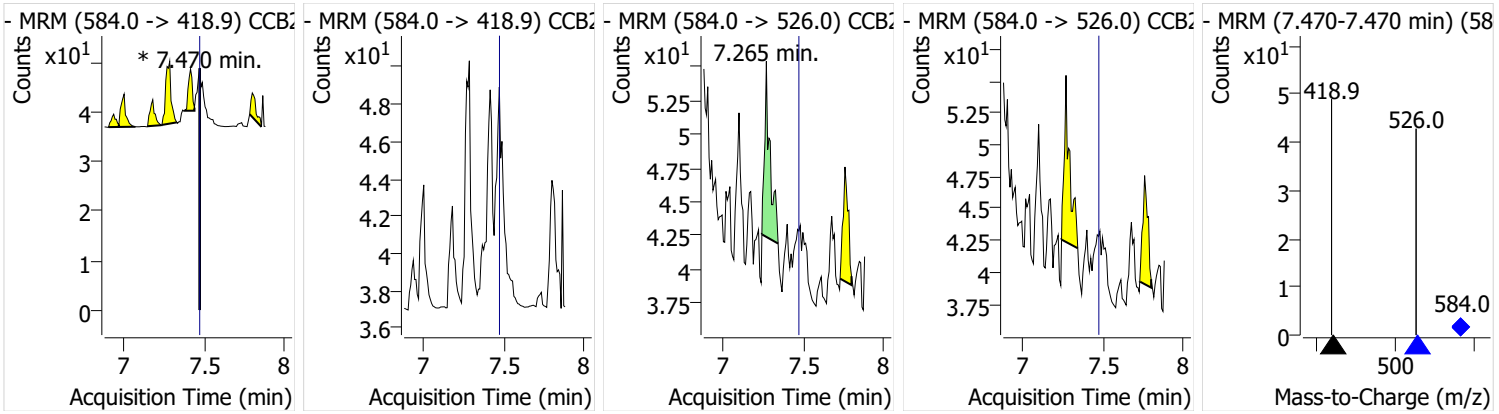

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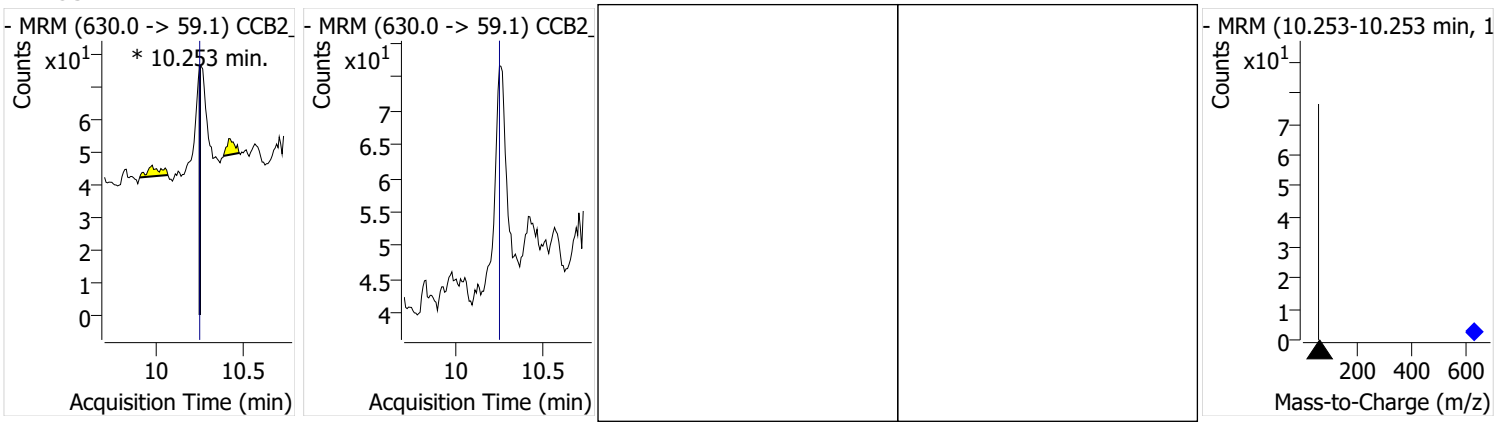

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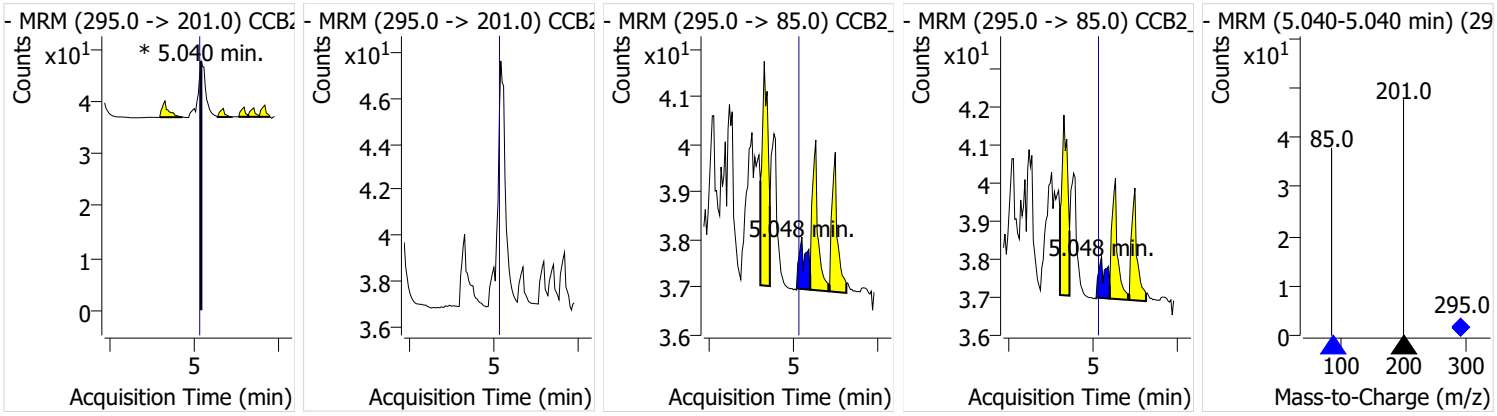

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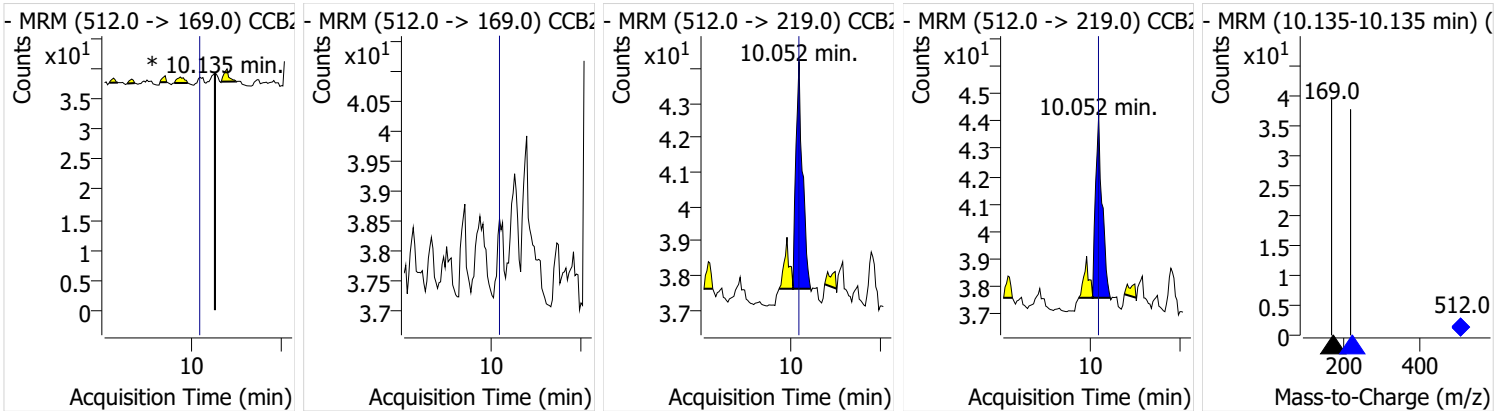

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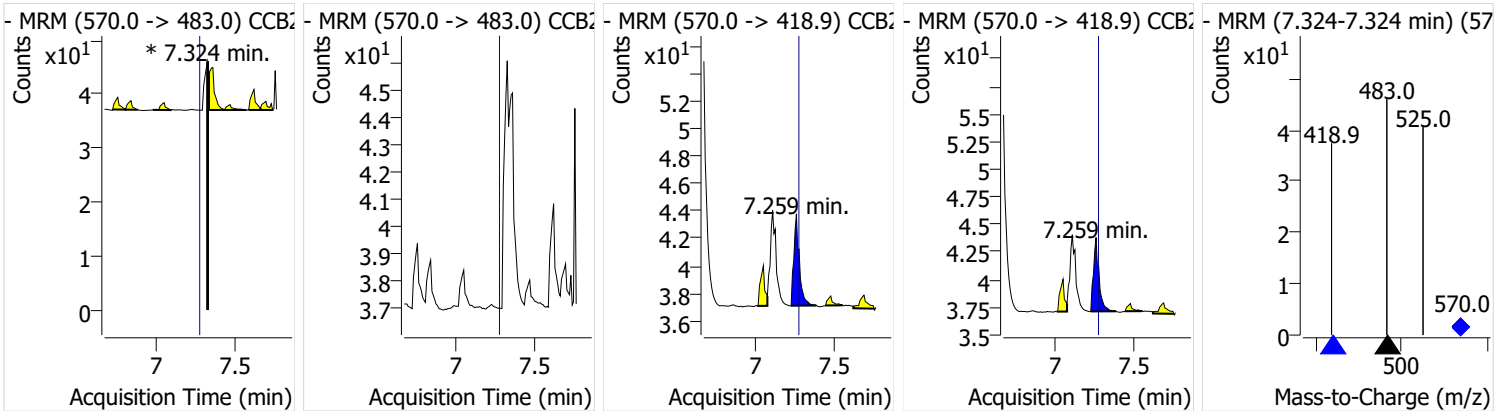

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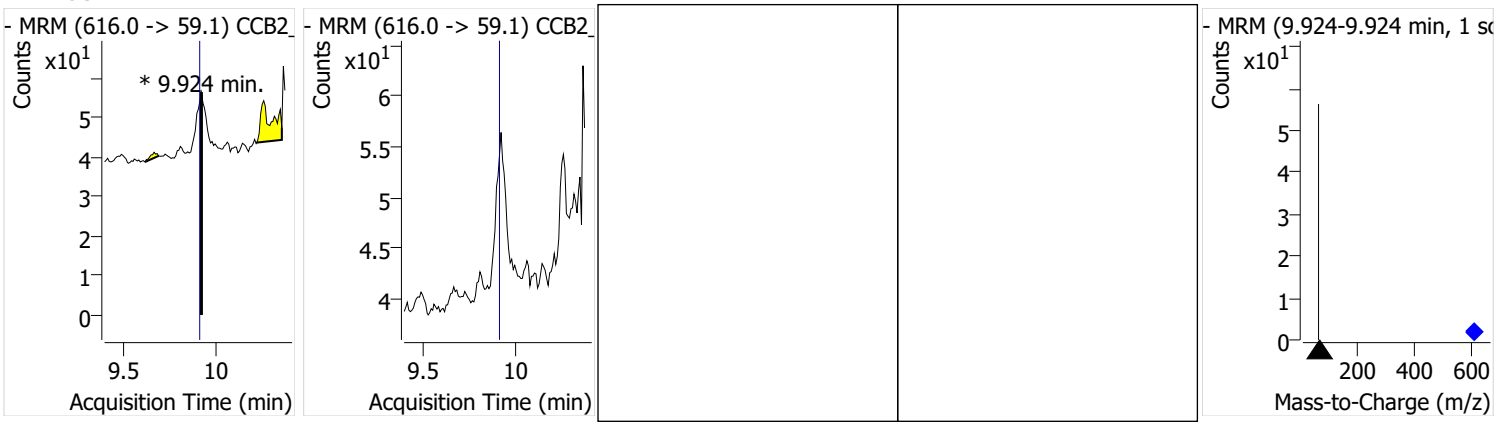

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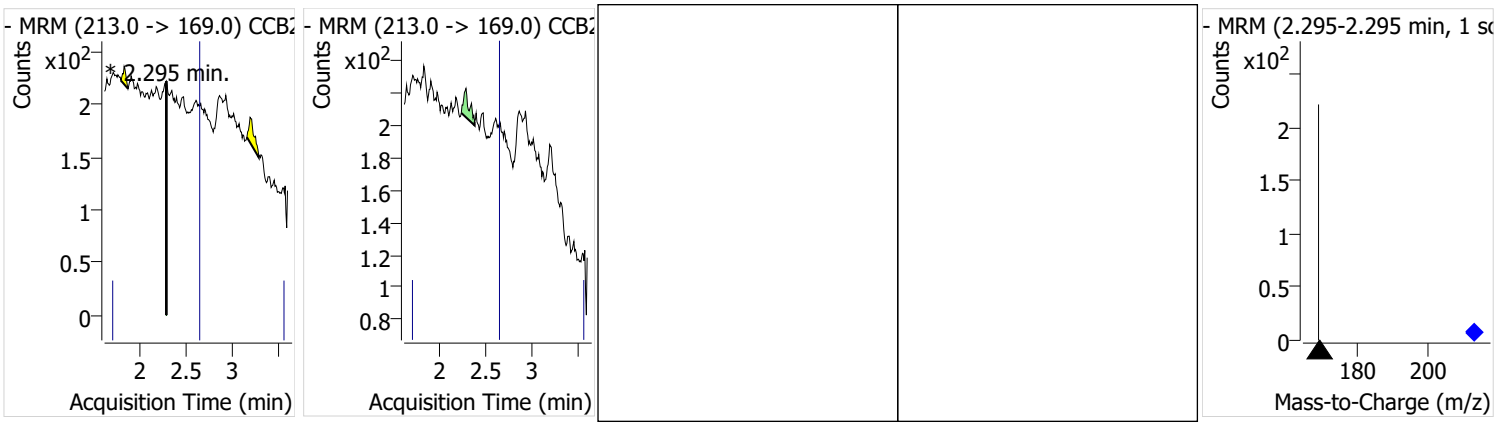

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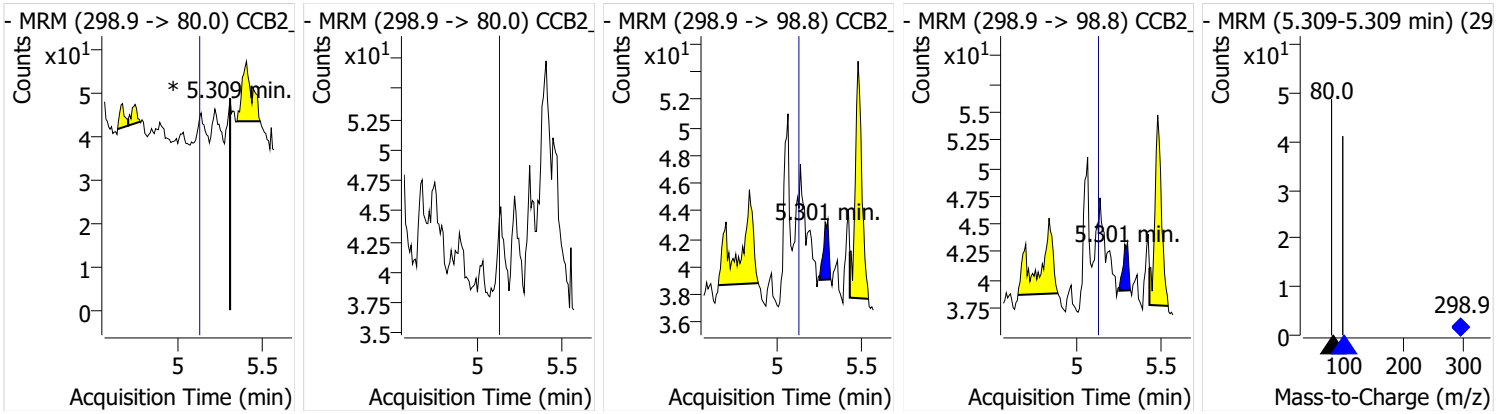

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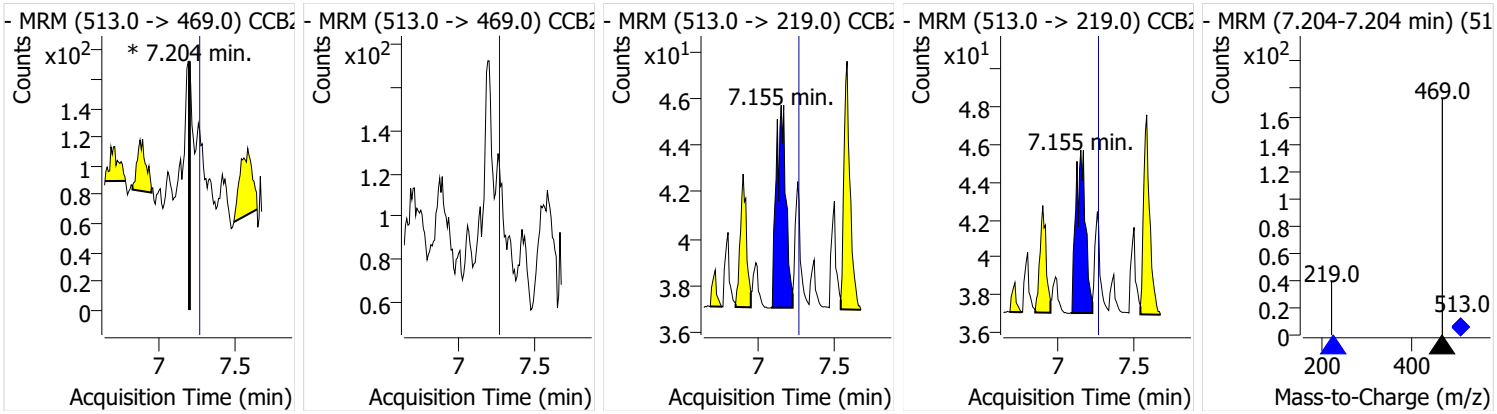

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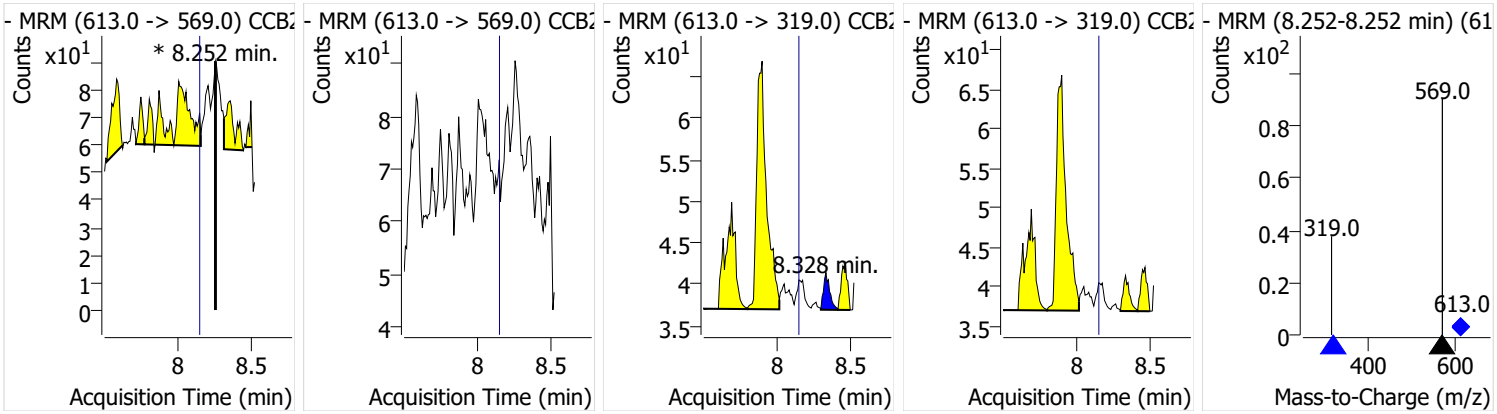
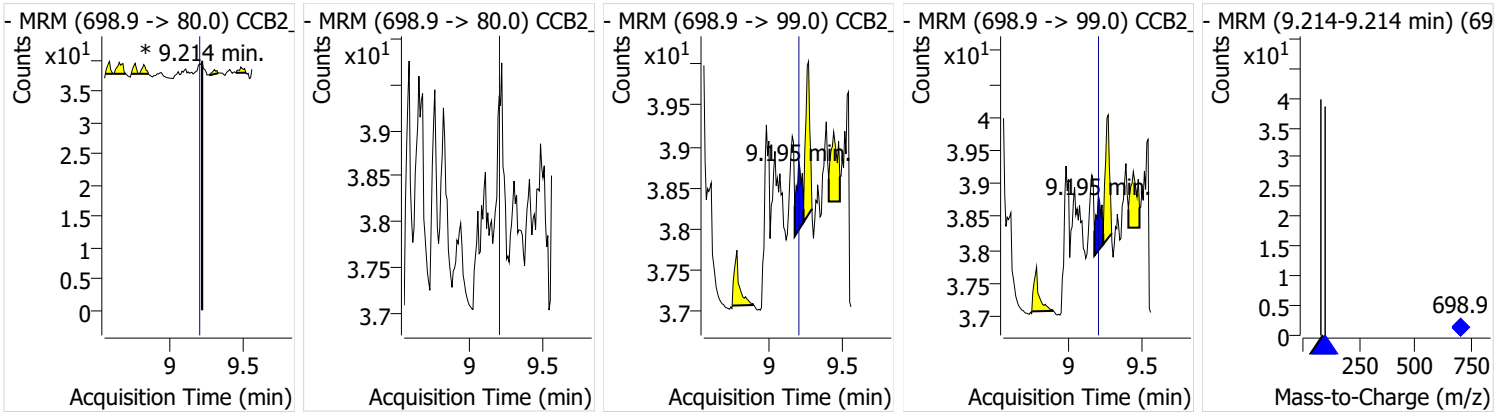


PFDoS



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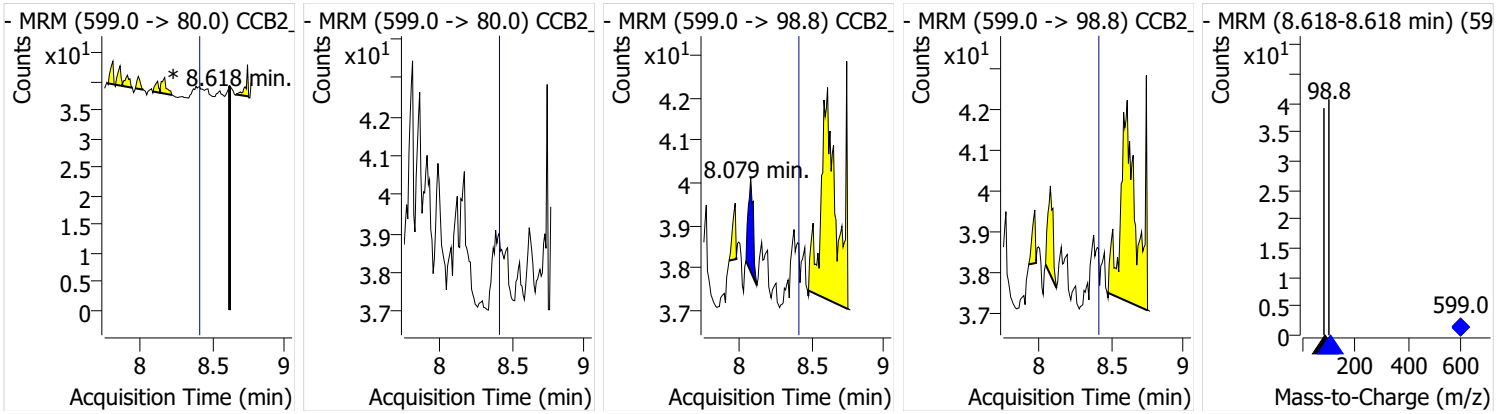

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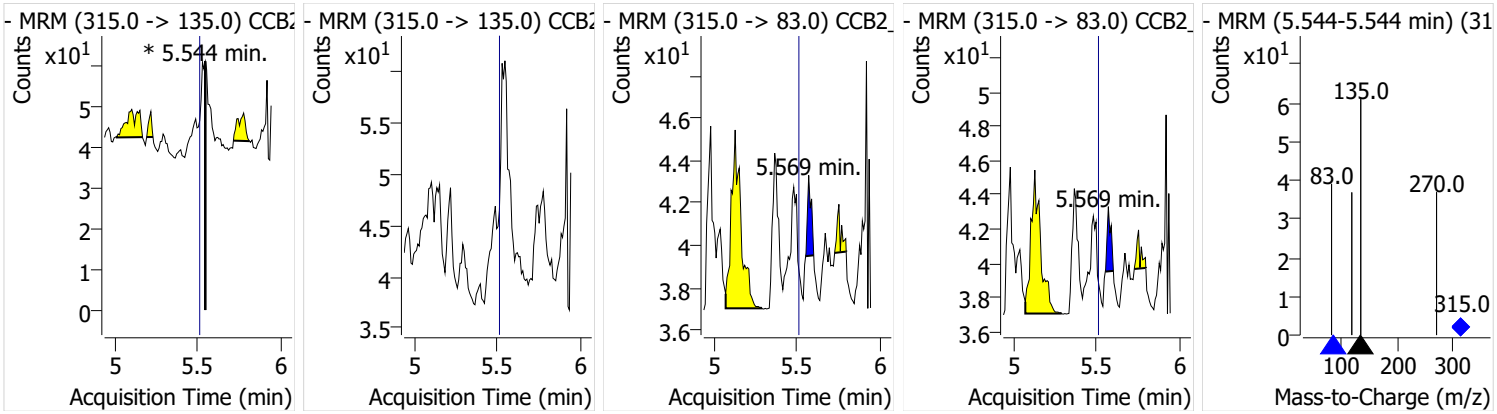
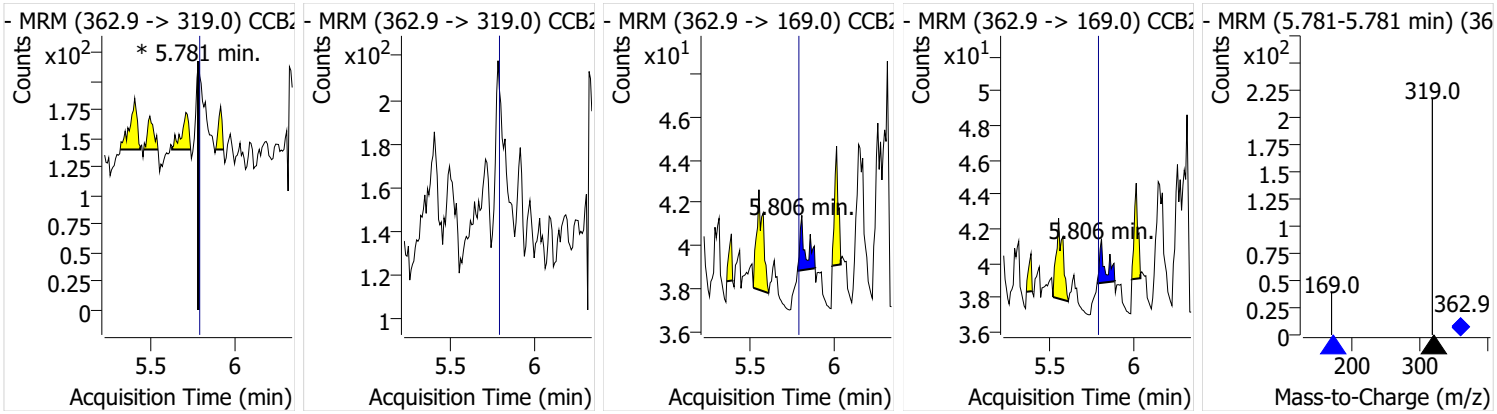


PFHpA



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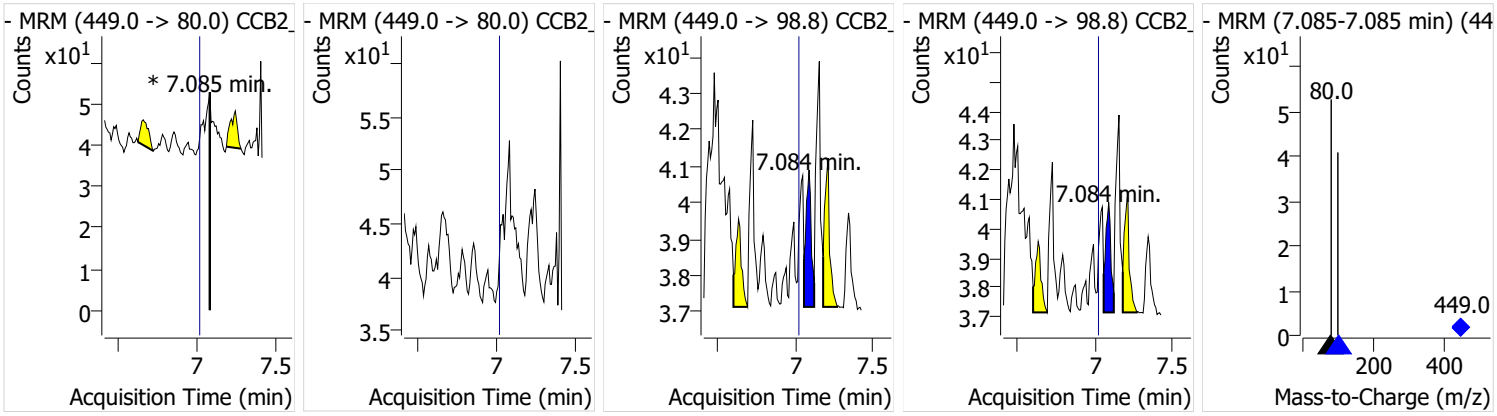

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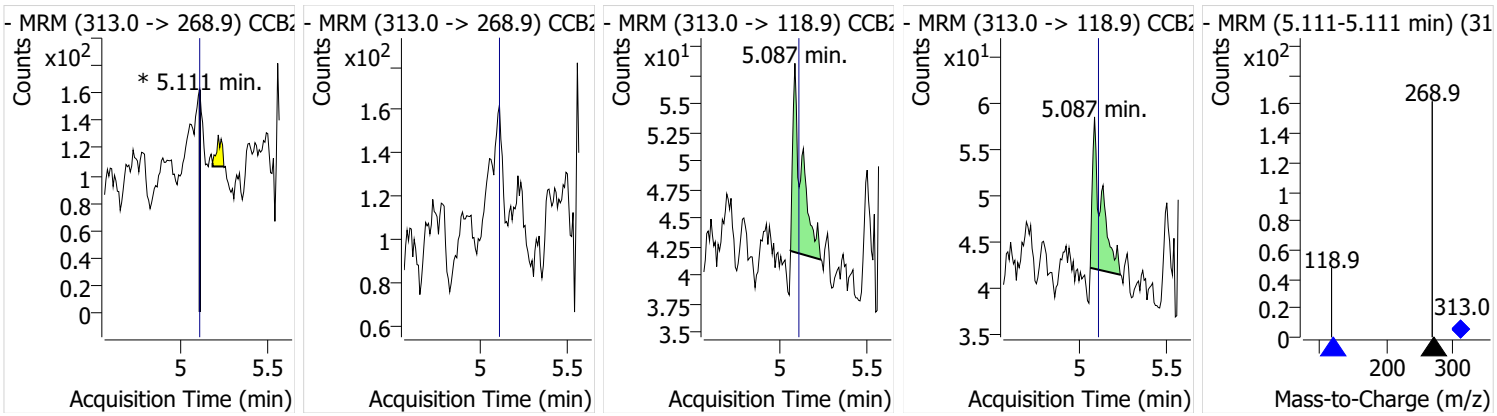

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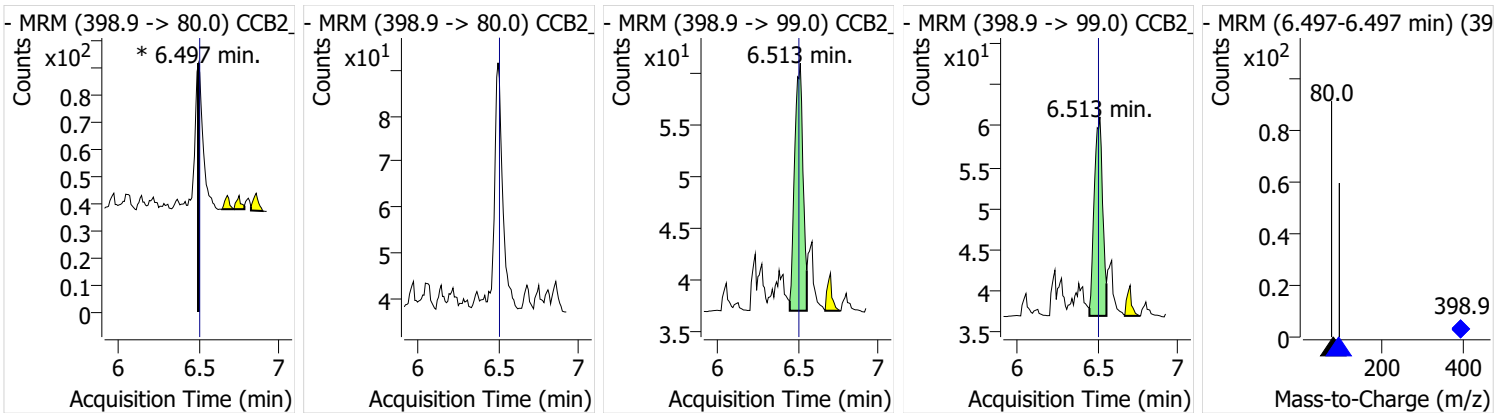

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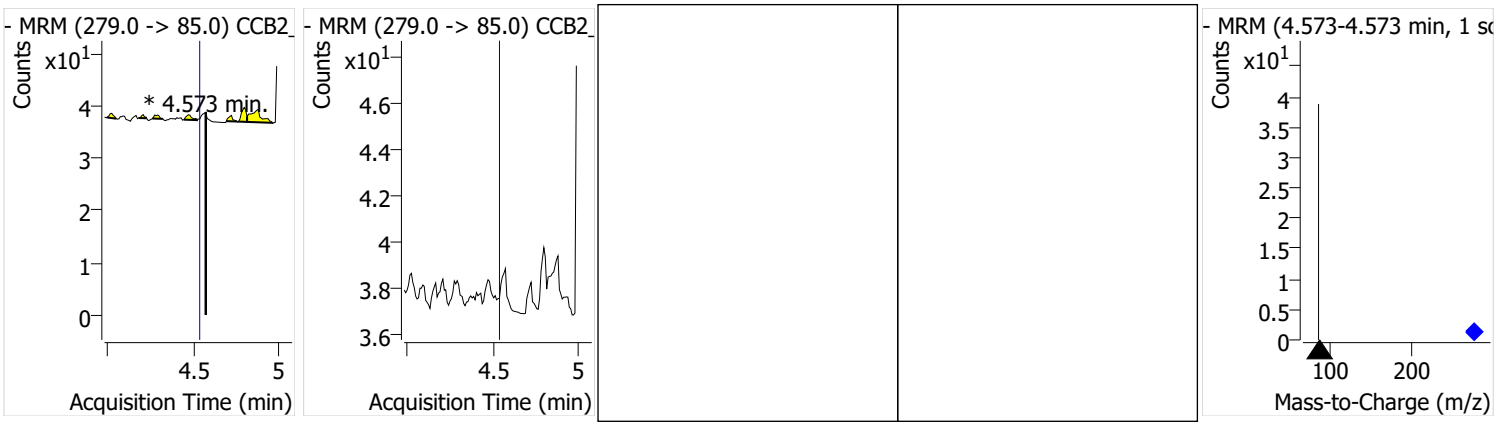

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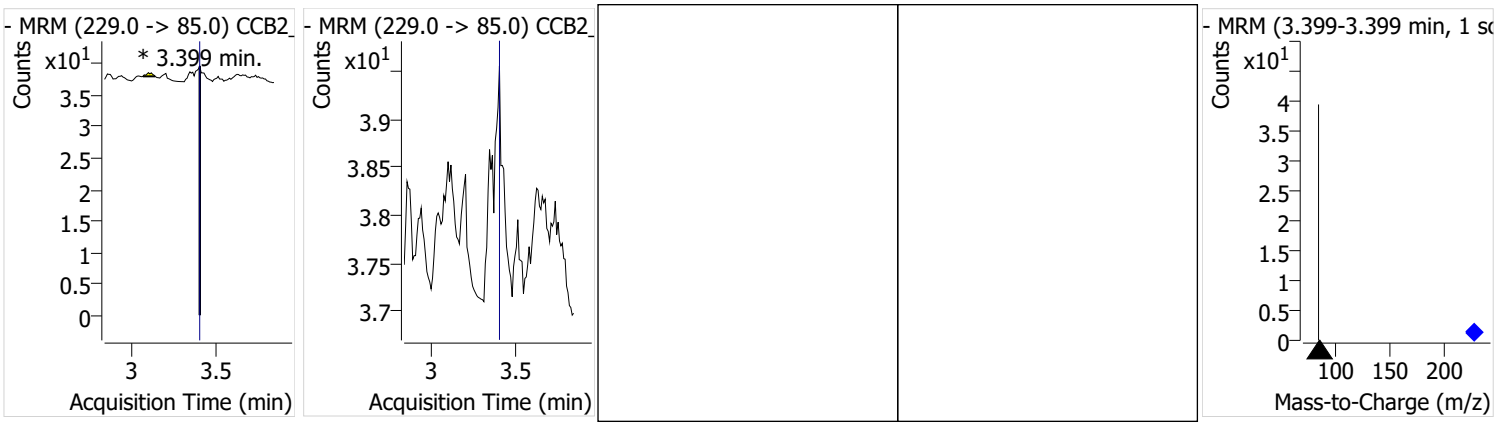

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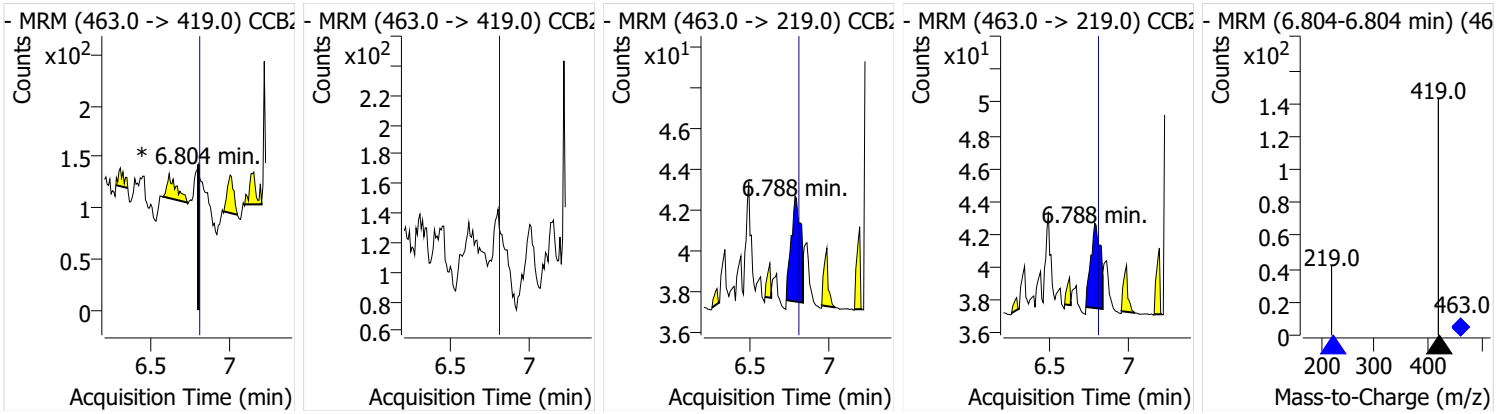

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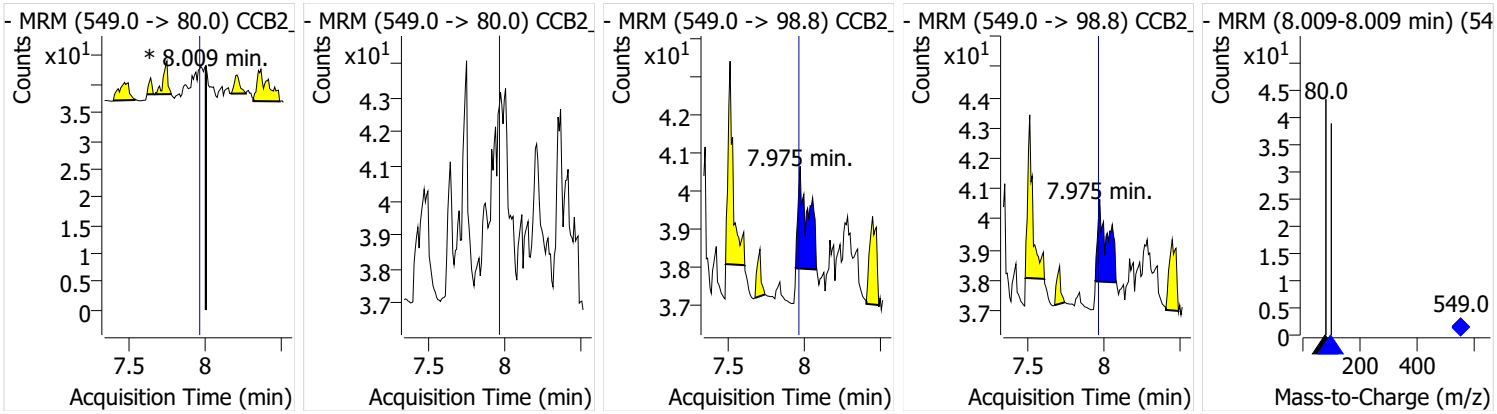
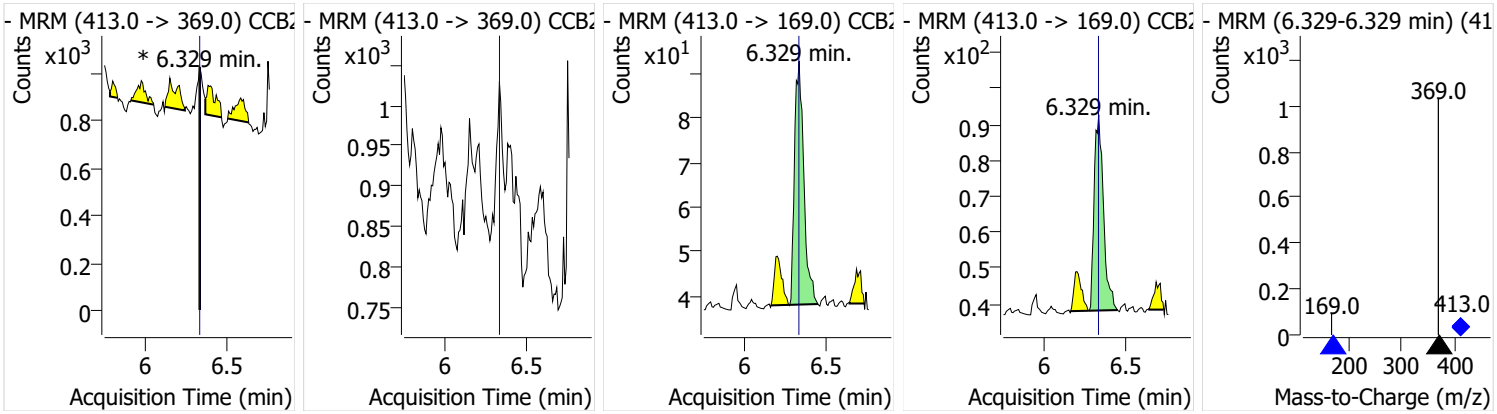
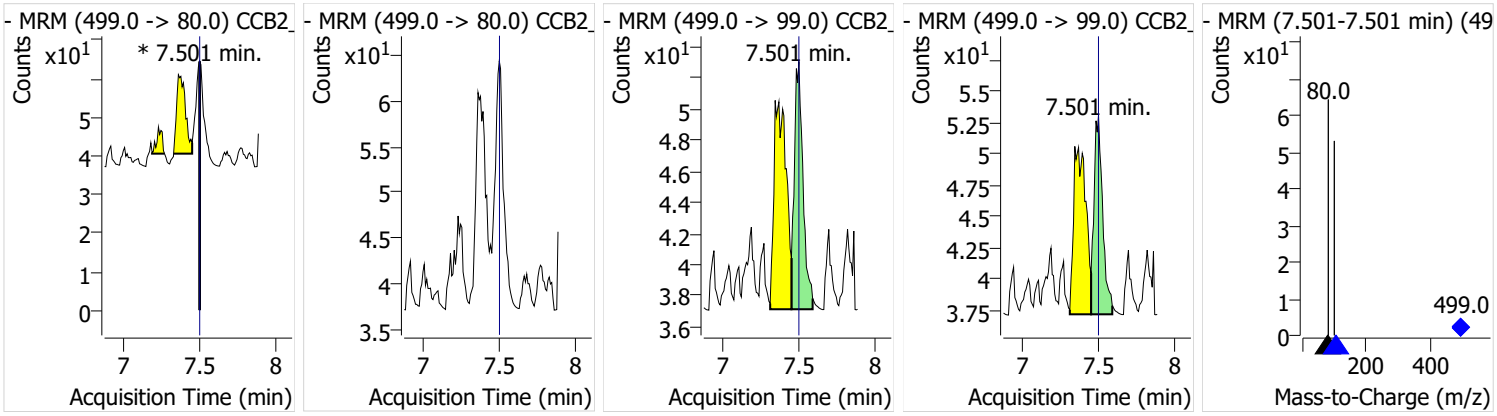


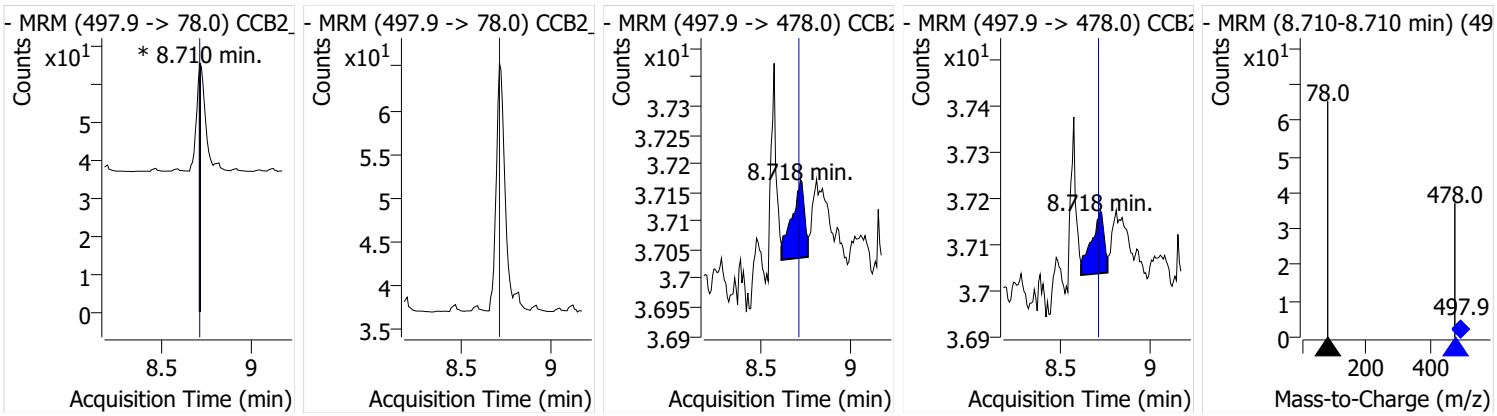
PFOA



PFOS



PFOSA



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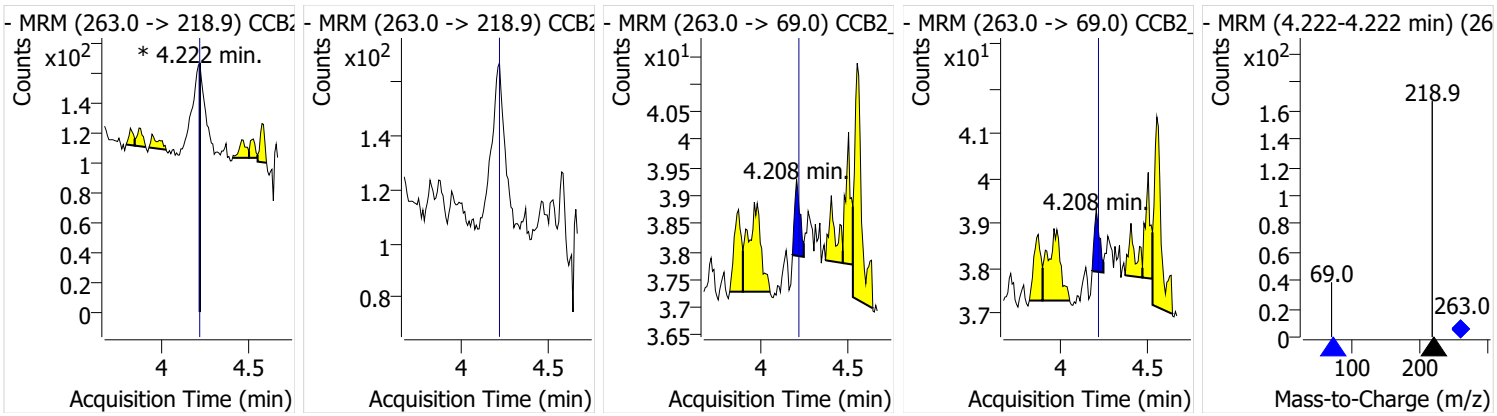
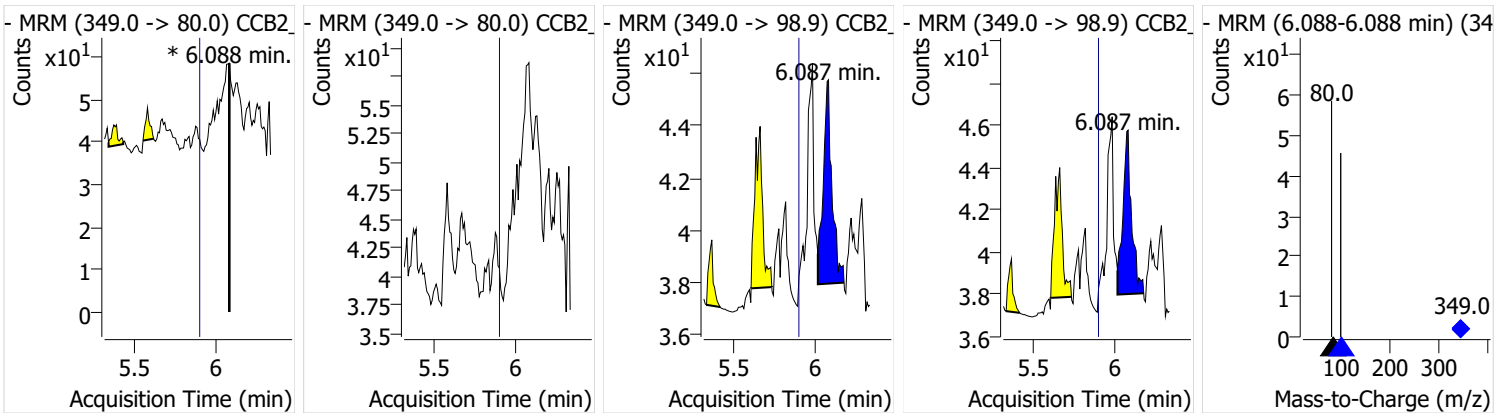
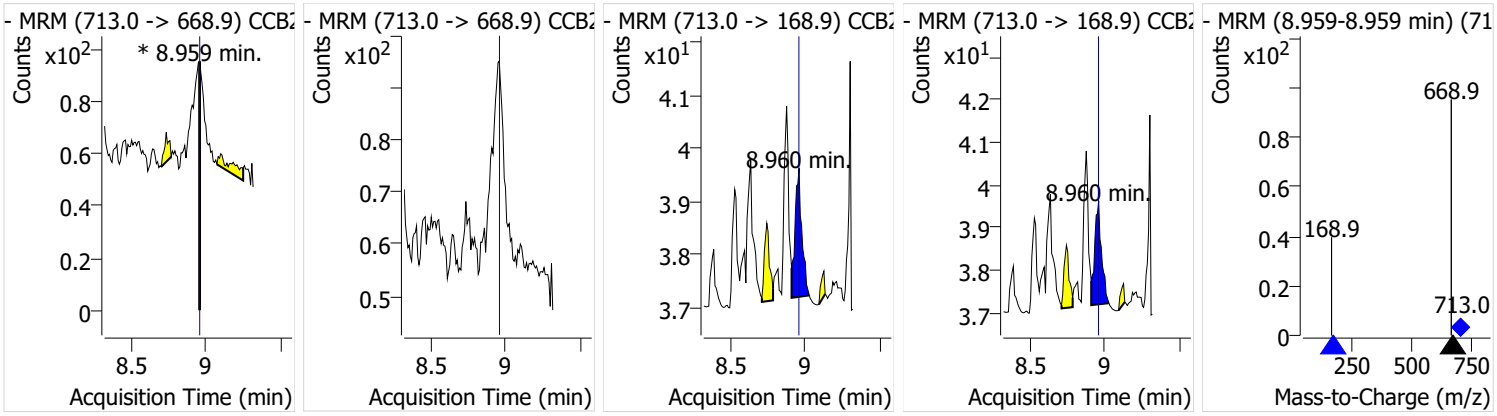


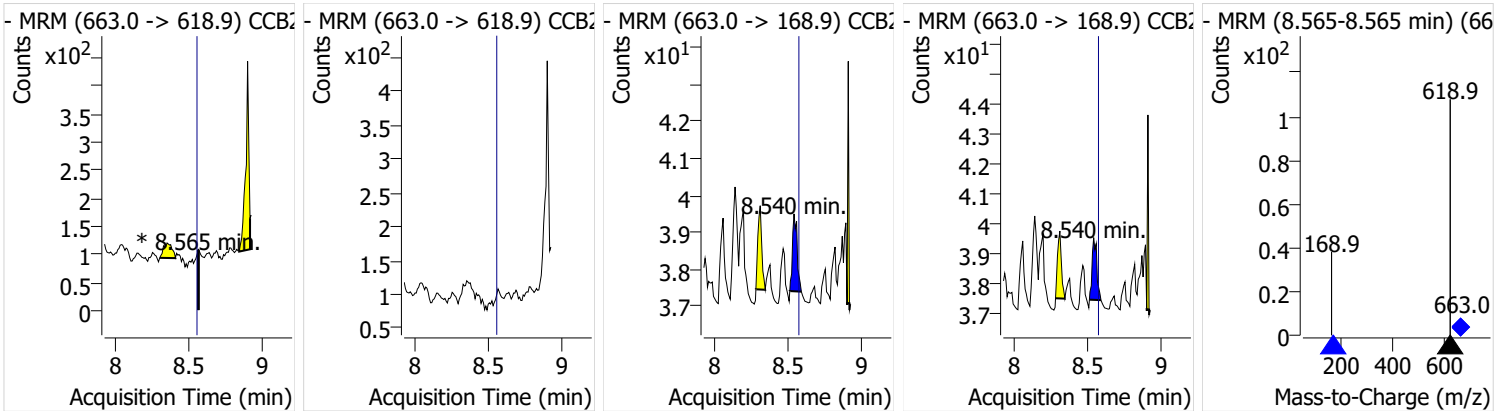
PFPeS



PFTeDA



PFTrDA



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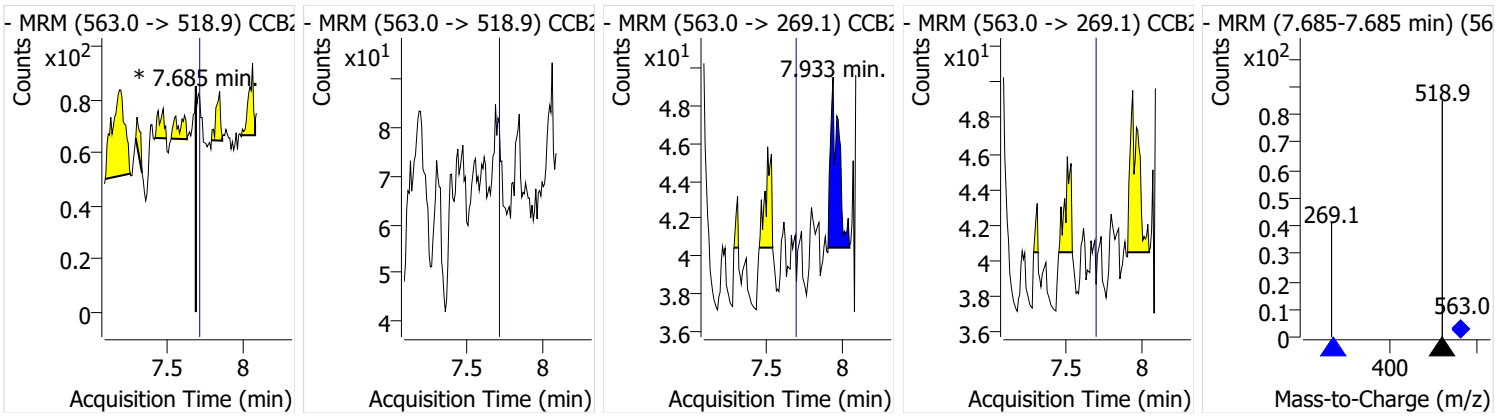

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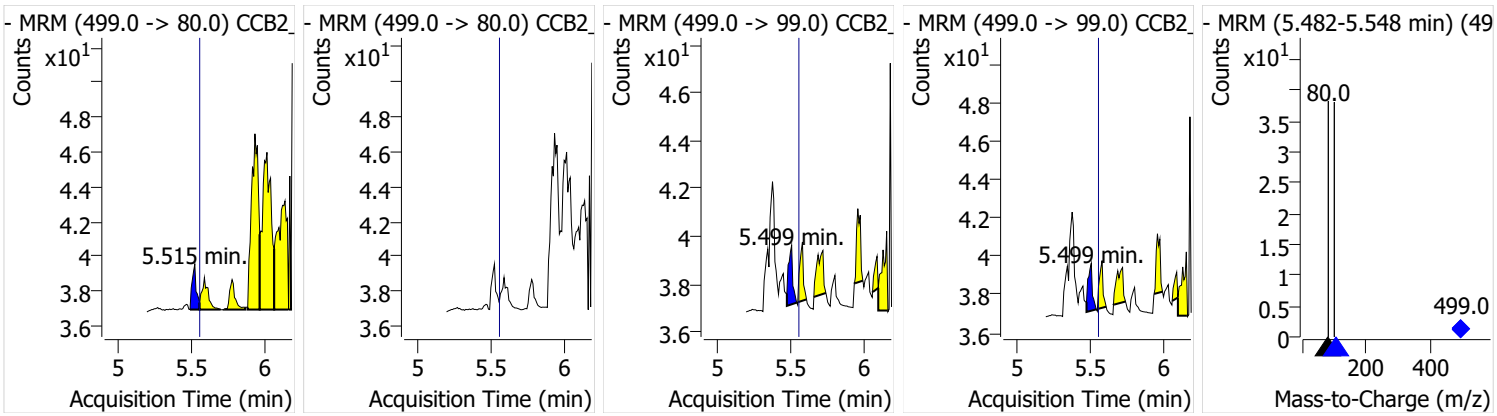
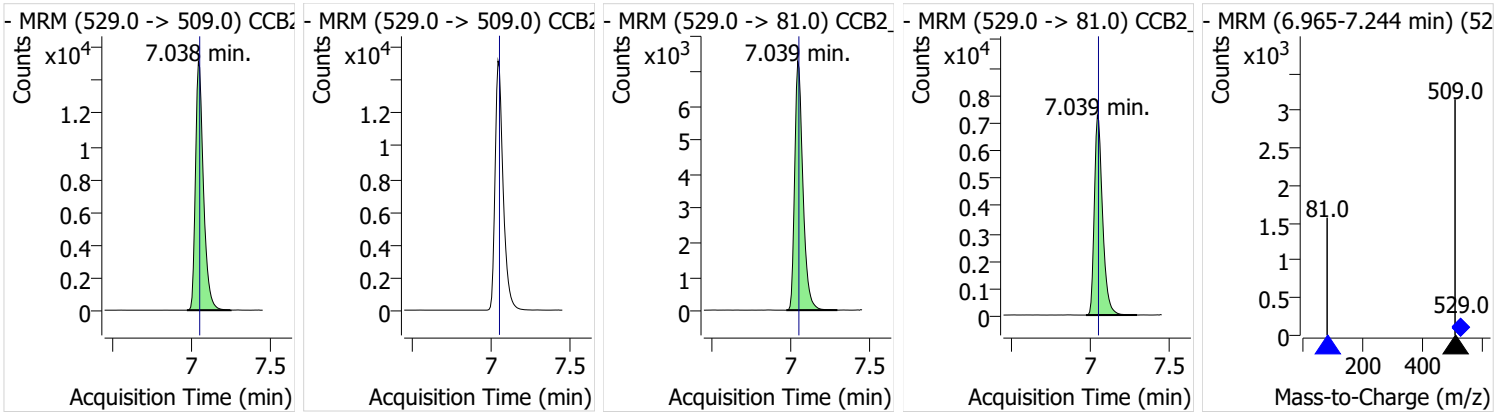
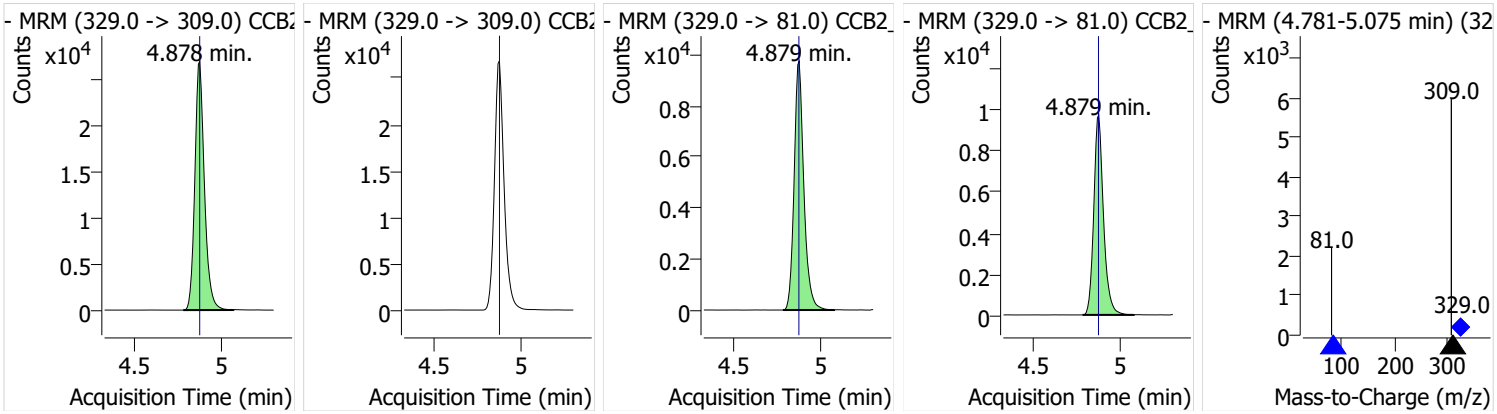


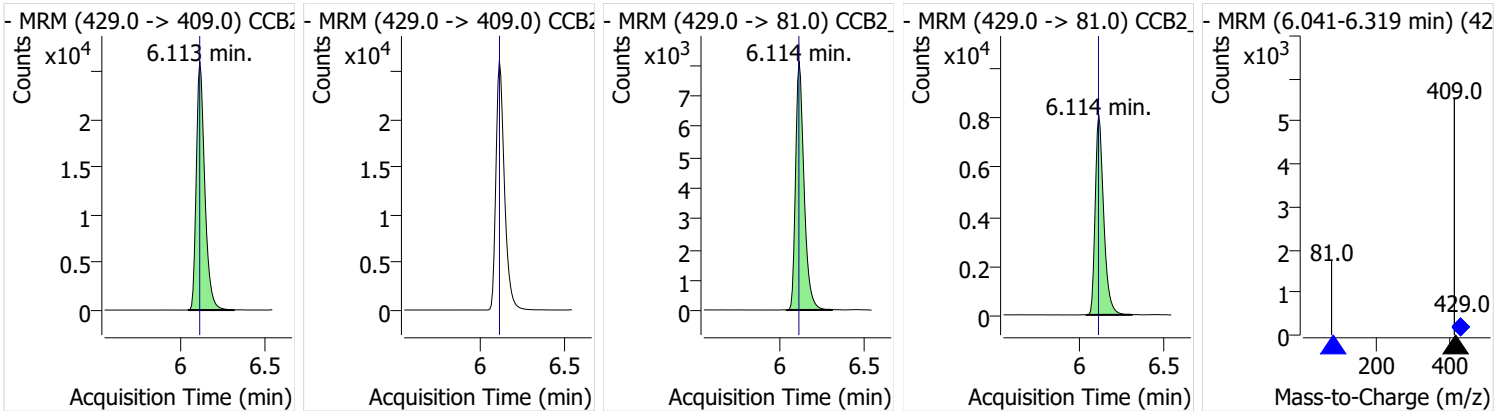
13C2-8:2FTS



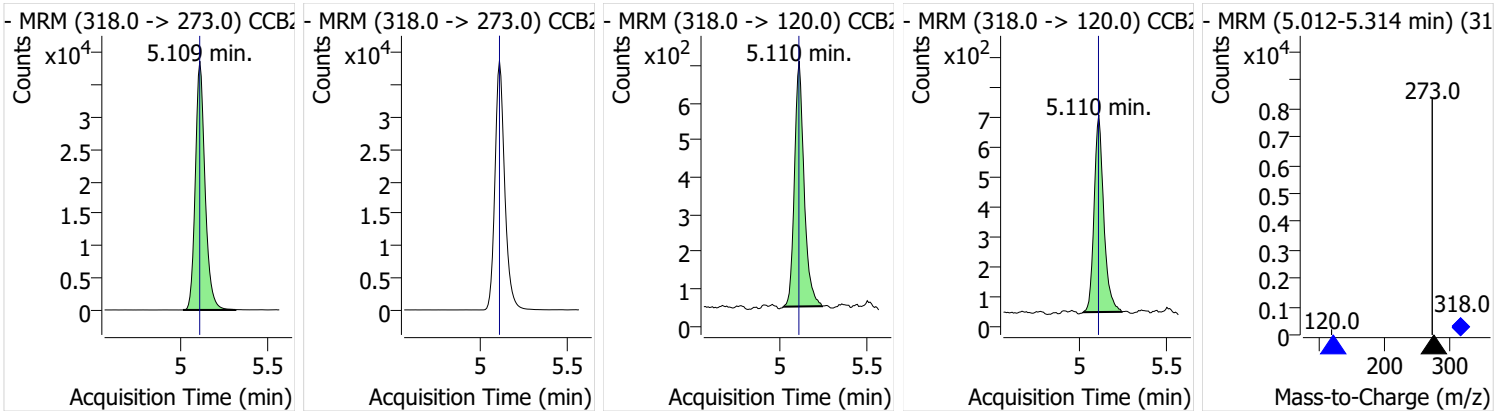
13C2-4:2FTS



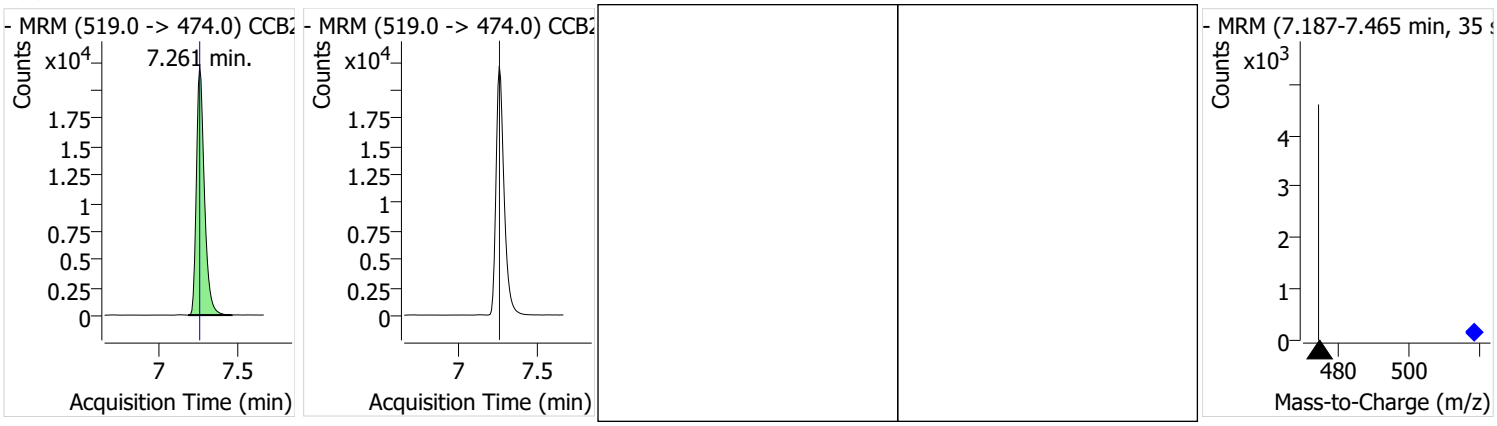
13C2-6:2FTS



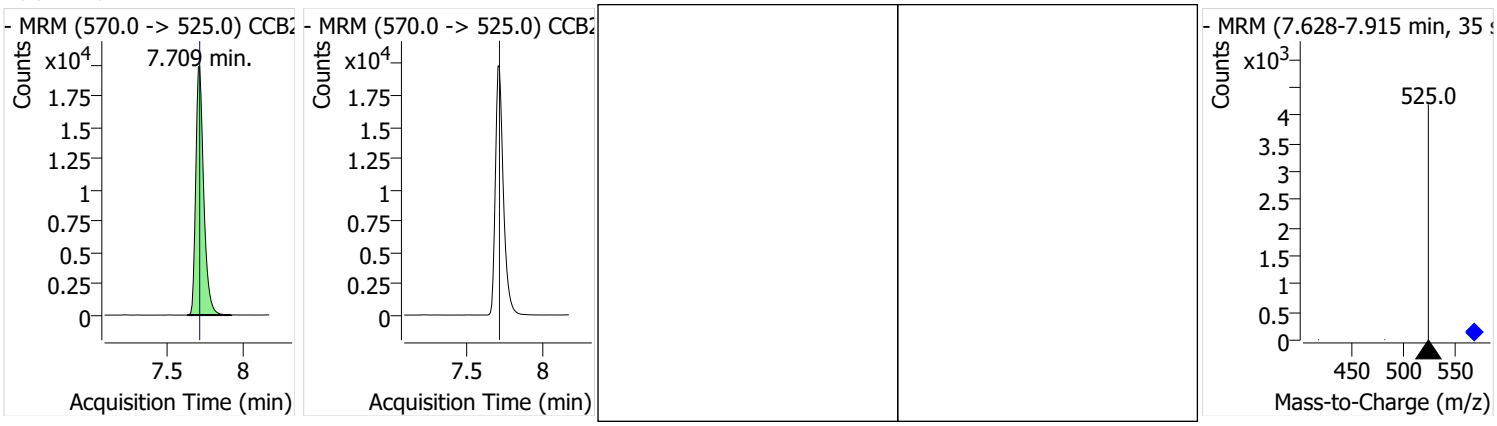
13C5-PFHxA



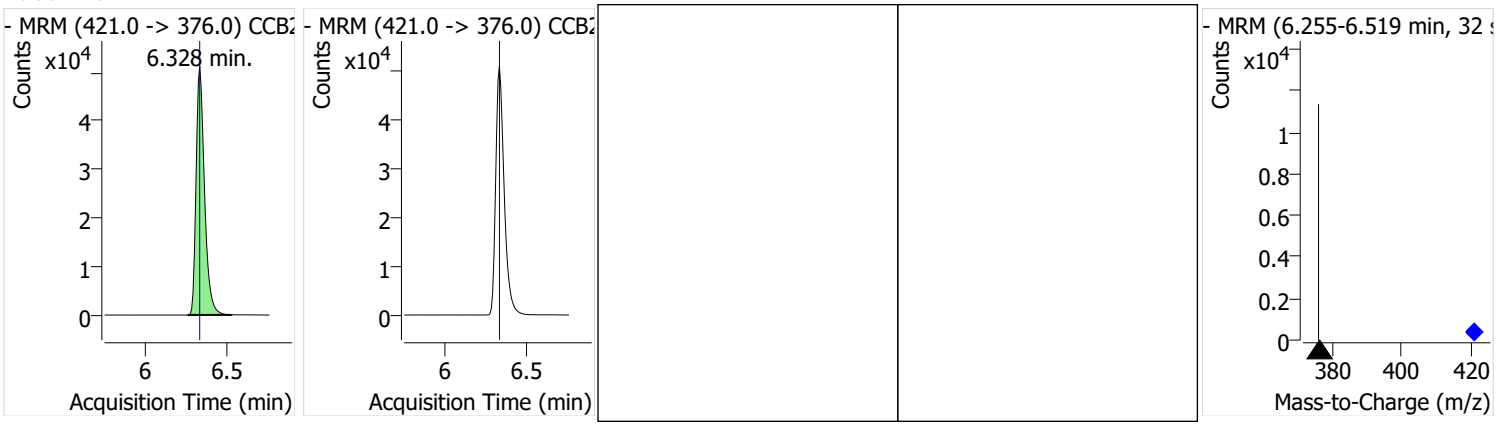
13C6-PFDA



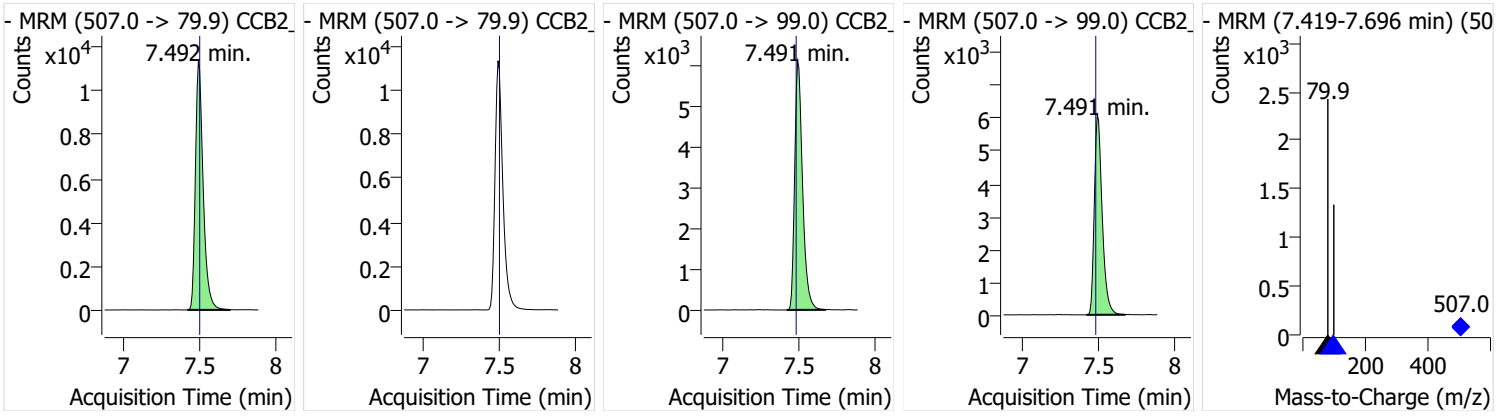
13C7-PFUnA



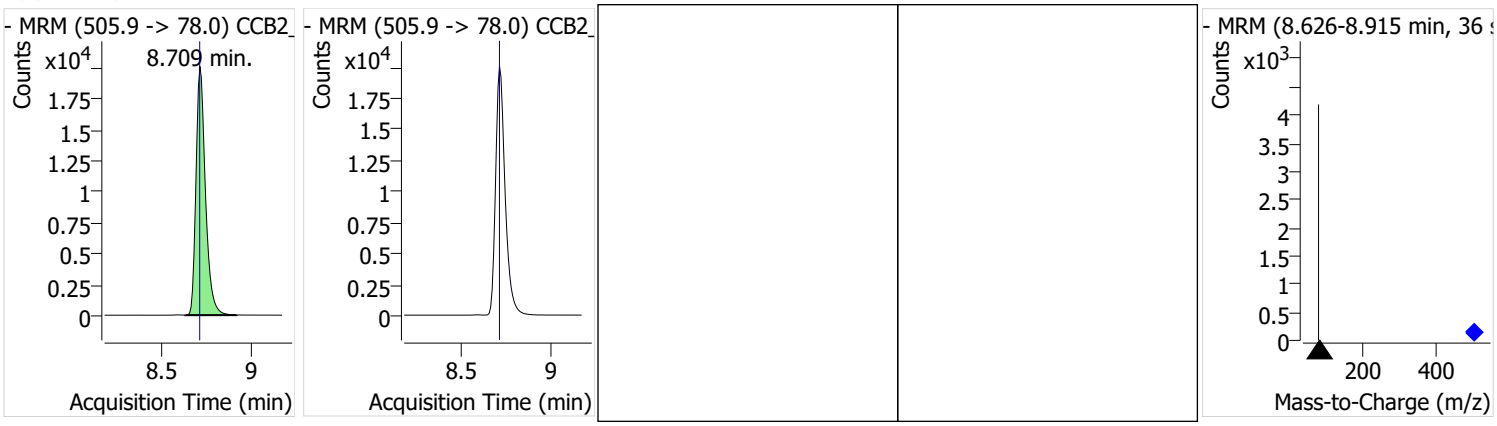
13C8-PFOA



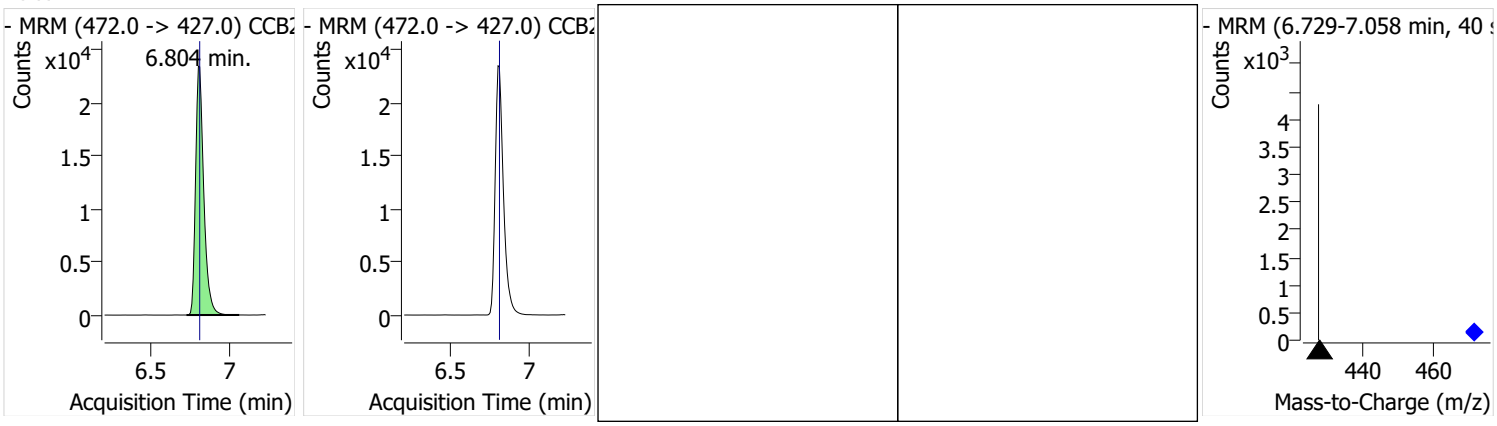
13C8-PFOS



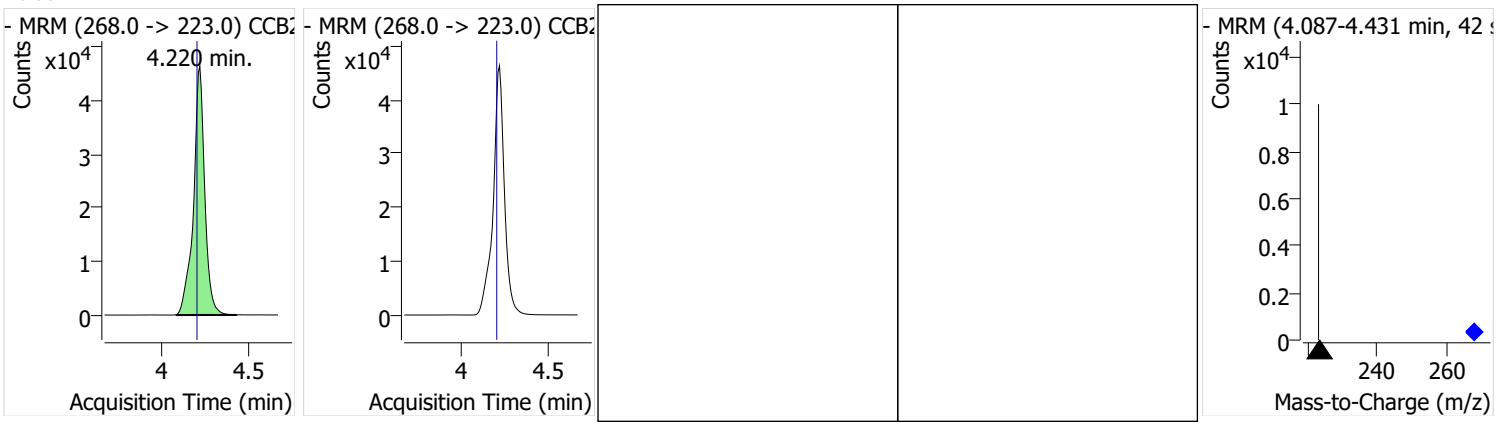
13C8-PFOSA



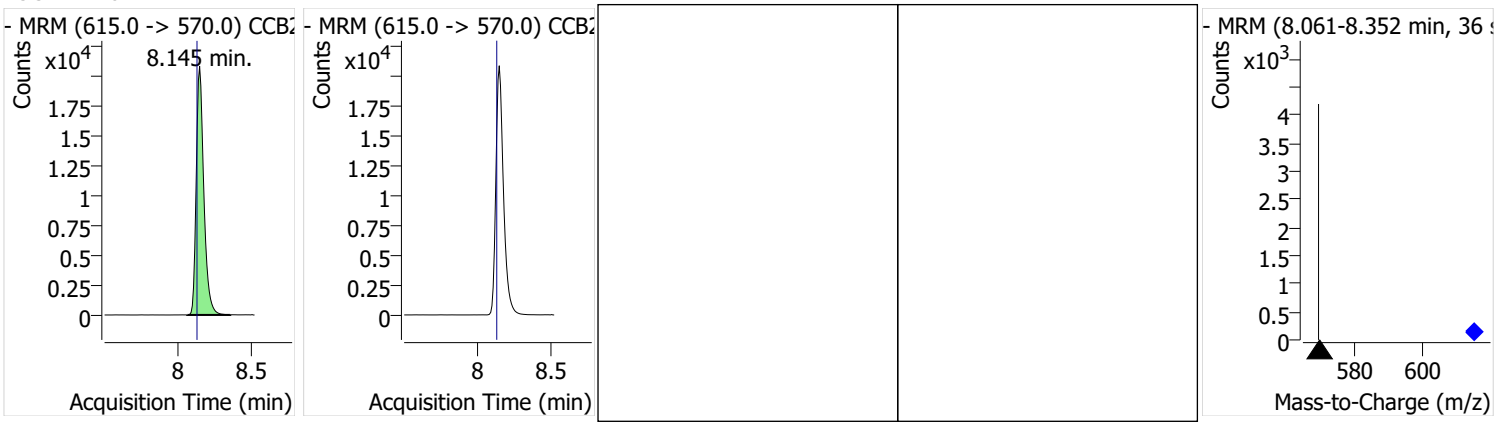
13C9-PFNA



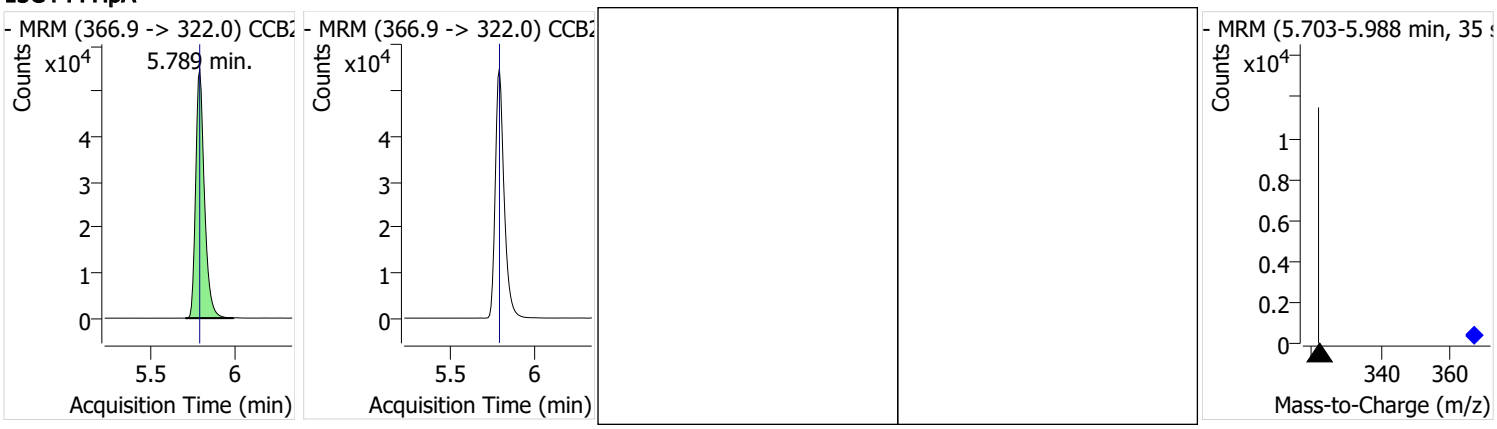
13C5-PFPeA



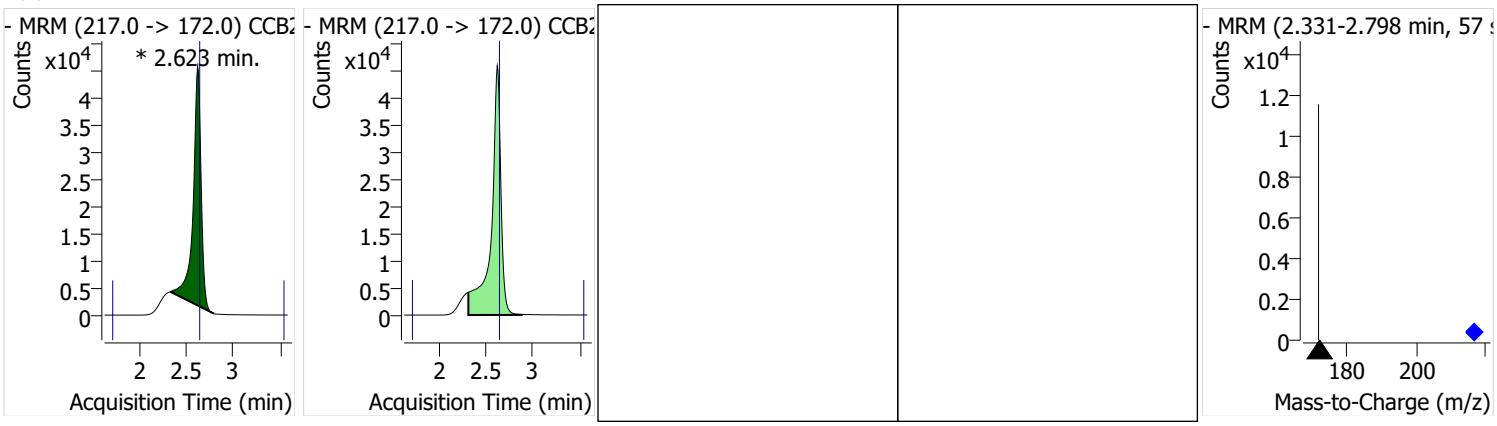
13C2-PFDoA



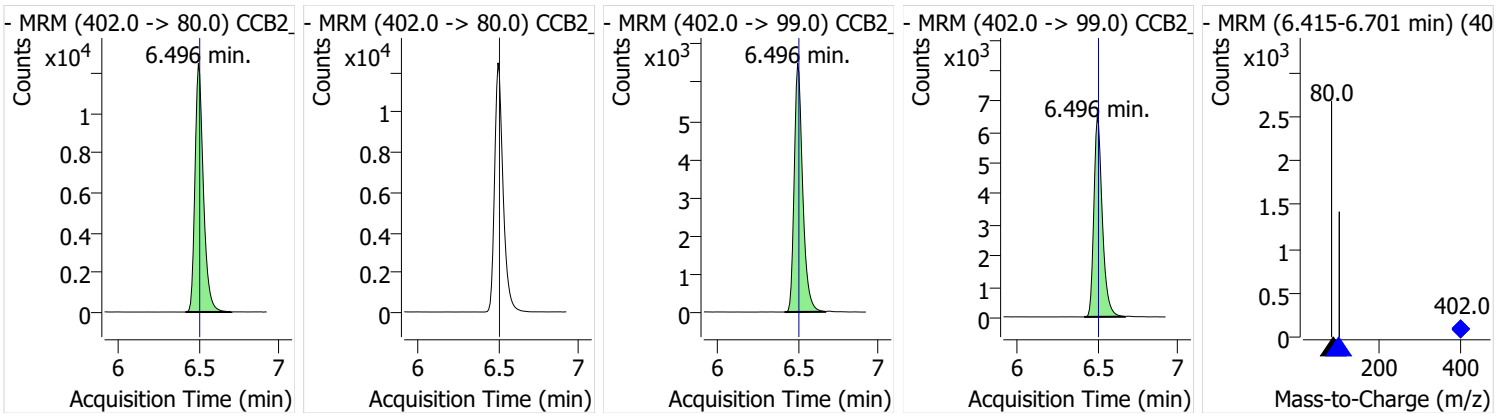
13C4-PFHpA



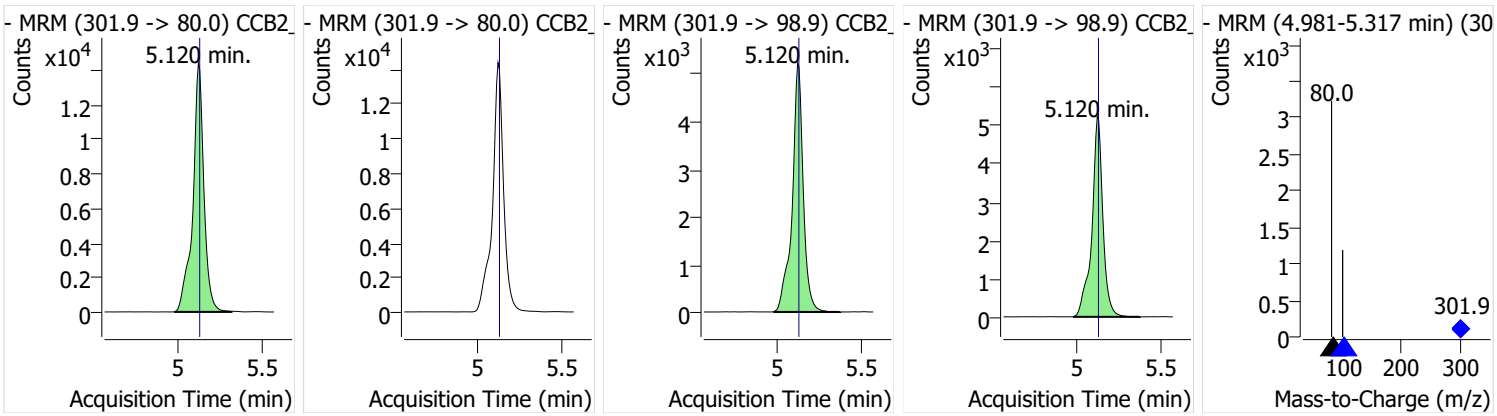
13C4-PFBA



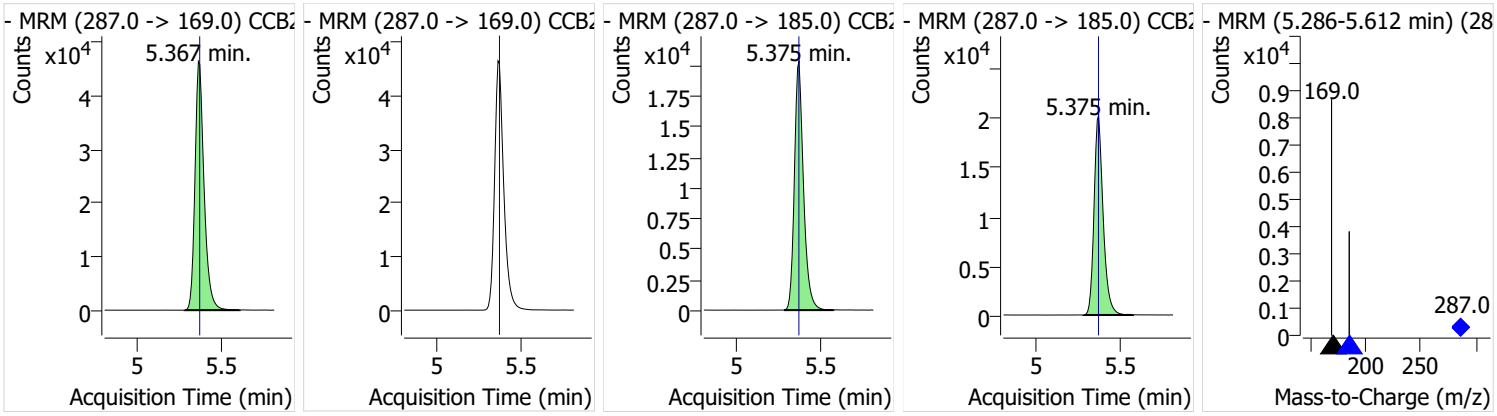
13C3-PFHxS



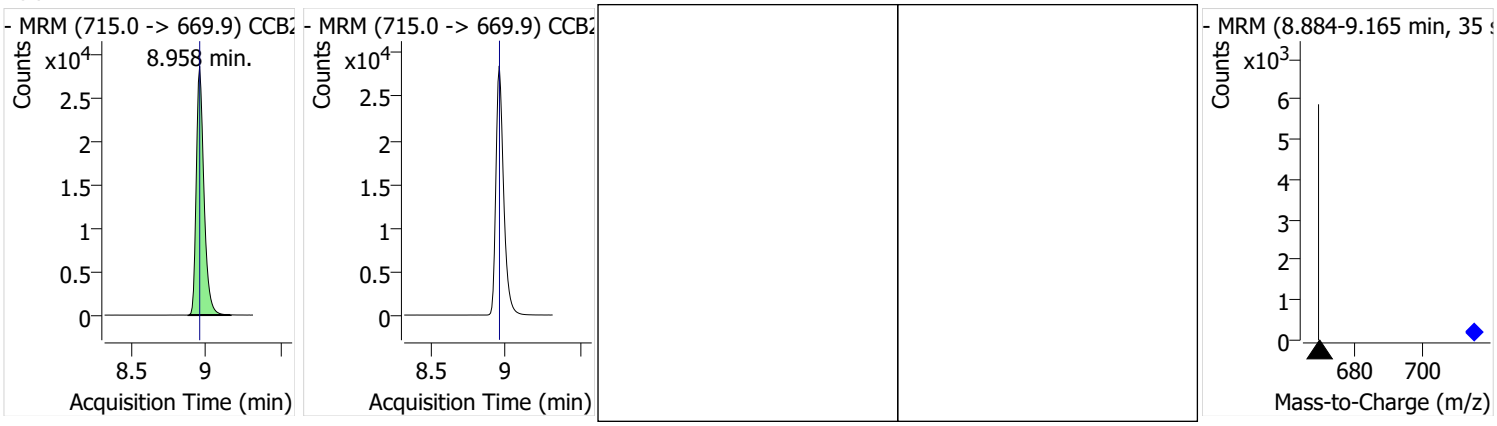
13C3-PFBS



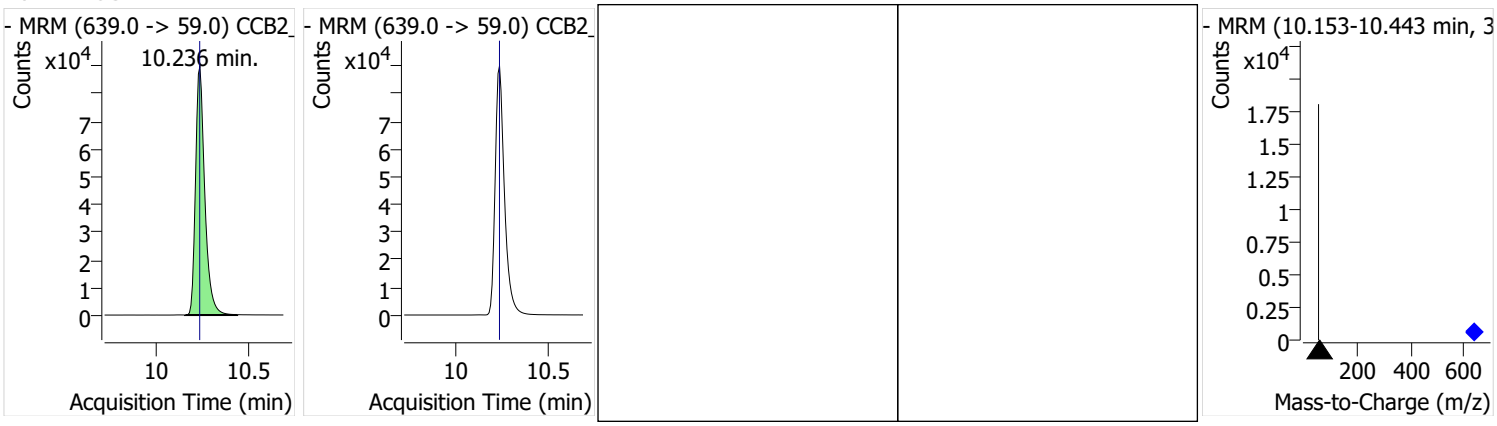
13C3-HFPODA



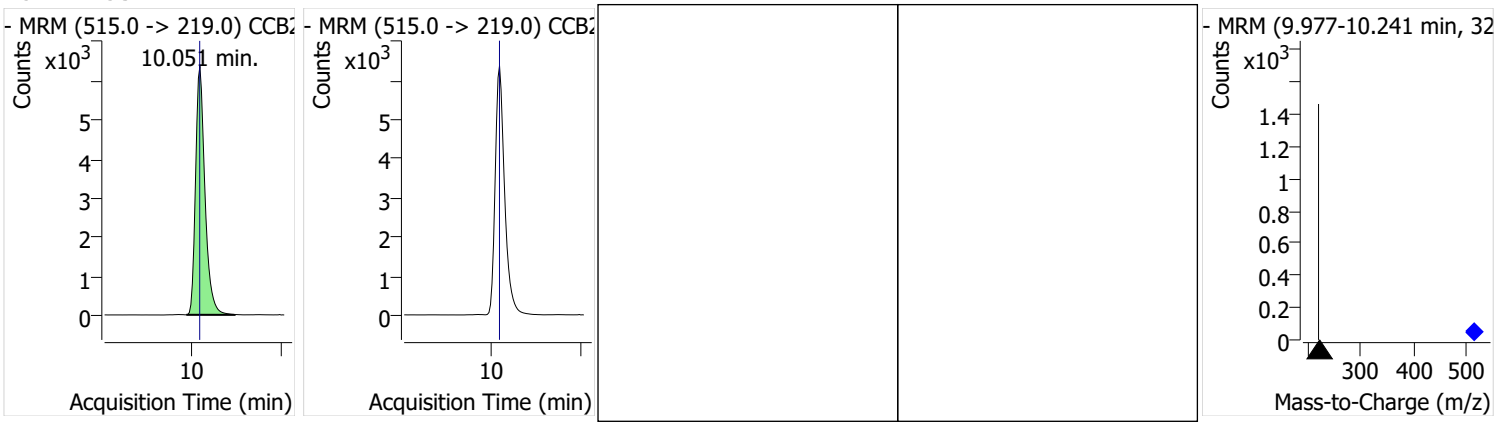
13C2-PFTeDA



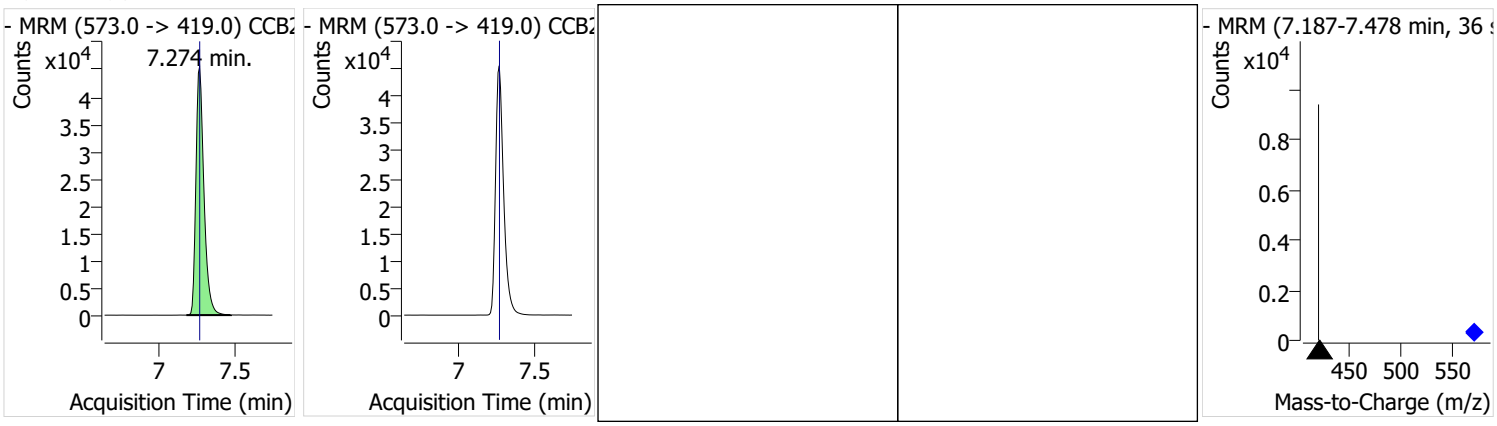
D9-NEtFOSE



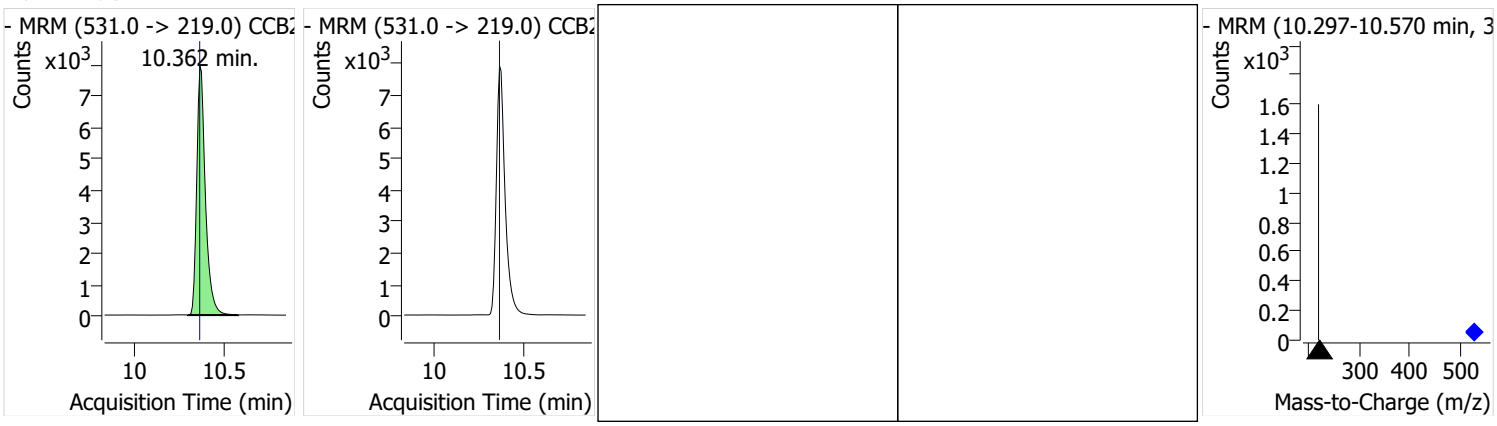
D3-NMeFOSA



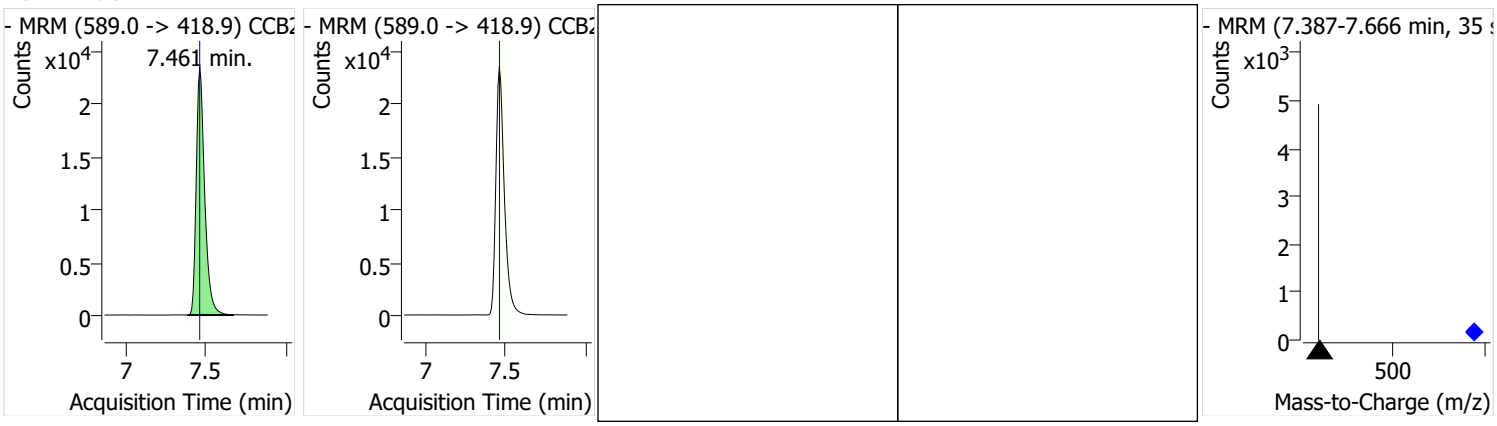
D3-NMeFOSAA



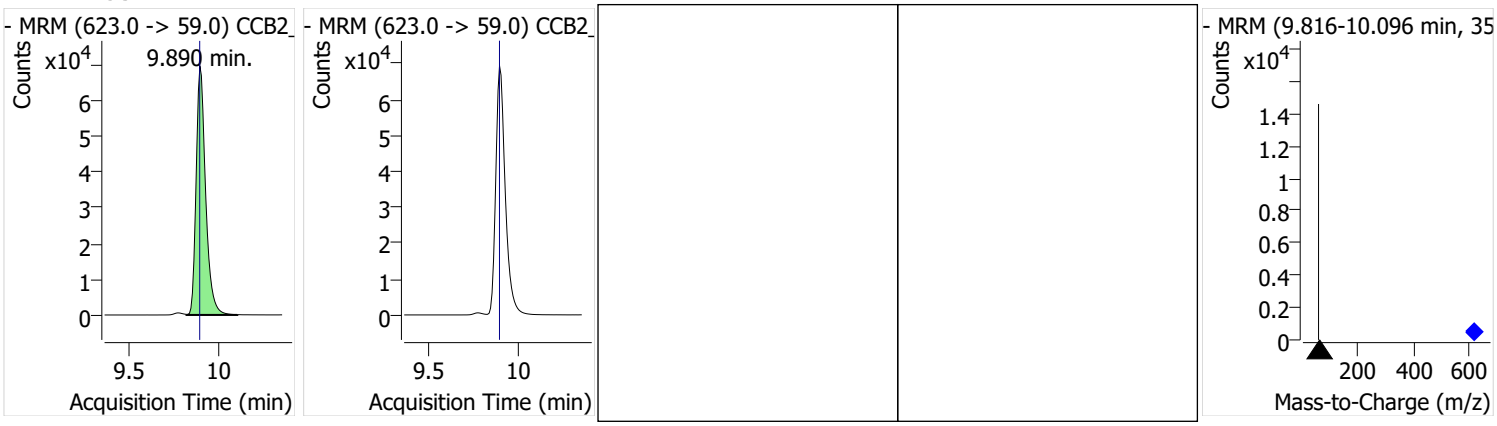
D5-NEtFOSA



D5-NEtFOSAA



D7-NMeFOSE



1 - FORM I
ANALYSIS DATA SHEET

Calibration Blank

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Water	Laboratory ID:	S105135-CCB3	File ID:	CCB3_1633_052824.d
Sampled:		Prepared:	05/28/24 00:00	Analyzed:	05/28/24 21:52
Solids:		Preparation:	B375132	Dilution:	
Batch:	S105135	Sequence:	S105135	Calibration:	2400593
Instrument:	QQQ5				
Column:	1				

CAS NO.	COMPOUND	CONC. (ng/mL)	MDL	RL	Q
375-22-4	Perfluorobutanoic acid (PFBA)	0.0	0.22	0.40	
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.0	0.043	0.20	
307-24-4	Perfluorohexanoic acid (PFHxA)	0.0	0.024	0.10	
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.0	0.027	0.10	
335-67-1	Perfluorooctanoic acid (PFOA)	0.0	0.026	0.10	
375-95-1	Perfluorononanoic acid (PFNA)	0.0	0.019	0.10	
335-76-2	Perfluorodecanoic acid (PFDA)	0.0	0.021	0.10	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.0	0.020	0.10	
307-55-1	Perfluorododecanoic acid (PFDoA)	0.0	0.020	0.10	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.0	0.030	0.10	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.0	0.026	0.10	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.0	0.021	0.10	
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.0	0.026	0.10	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.0	0.028	0.10	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.0	0.033	0.10	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.0	0.038	0.10	
68259-12-1	Perfluorononanesulfonic acid (PFNS)	0.0	0.025	0.10	
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.0	0.029	0.10	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	0.0	0.029	0.10	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (	0.0	0.075	0.40	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid ((	0.0	0.30	0.40	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (	0.0	0.11	0.40	
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.0	0.023	0.10	
31506-32-8	N-methyl perfluoroocatnesulfonamide (NMeF	0.0	0.033	0.10	
4151-50-2	N-ethyl perfluorooctanesulfonamide (NEtFOS	0.0	0.034	0.10	
2355-31-9	N-MeFOSAA (NMeFOSAA)	0.0	0.036	0.10	
2991-50-6	N-EtFOSAA (NEtFOSAA)	0.0	0.040	0.10	
24448-09-7	N-methylperfluorooctanesulfonamidoethanol(	0.0	0.27	1.0	
1691-99-2	N-ethylperfluorooctanesulfonamidoethanol (N	0.0	0.27	1.0	
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPC	0.0	0.10	0.40	

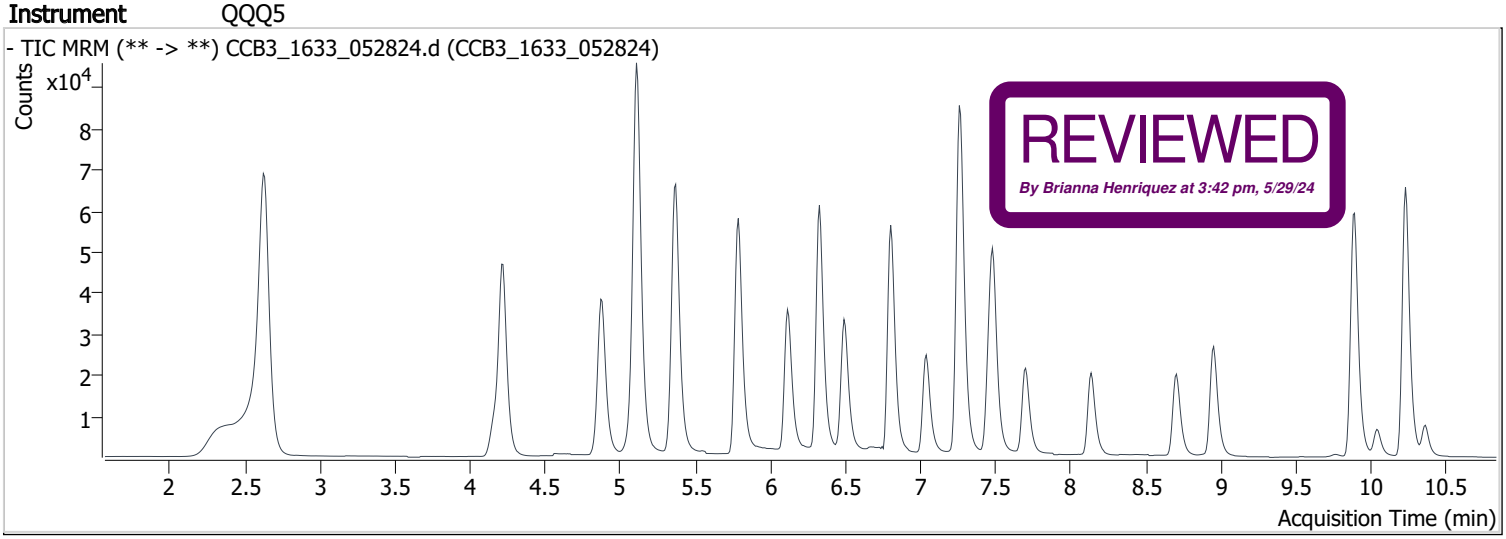
1 - FORM I
ANALYSIS DATA SHEET

Calibration Blank

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Water	Laboratory ID:	S105135-CCB3	File ID:	CCB3_1633_052824.d
Sampled:		Prepared:	05/28/24 00:00	Analyzed:	05/28/24 21:52
Solids:		Preparation:	B375132	Dilution:	
Batch:	S105135	Sequence:	S105135	Calibration:	2400593
Instrument:	QQQ5				
Column:	1				

CAS NO.	COMPOUND	CONC. (ng/mL)	MDL	RL	Q
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADON/	0.0	0.082	0.40	
756426-58-1	9Cl-PF3ONS (F53B Minor)	0.0	0.096	0.40	
763051-92-9	11Cl-PF3OUdS (F53B Major)	0.0	0.11	0.40	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)(3:3	0.0	0.22	1.0	
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)	0.0	1.1	5.0	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)(7:3	0.078	0.95	5.0	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEE	0.0	0.035	0.20	
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.0	0.056	0.20	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	0.0	0.054	0.20	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.0	0.055	0.20	

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CCVS.batch.bin		
Analysis Time	5/29/2024 11:23 AM	**Last Calib Update**	5/29/2024 8:40 AM
Acq. Time	5/28/2024 9:52 PM	**Data File**	CCB3_1633_052824.d
Sample Type	Sample	**Sample Name**	CCB3_1633_052824
Dilution	1	**Acq. Method**	1633_ACQUISITION.m
Sample Comment	E#24E0527	**Processing method**	1633_052824.m
Instrument	QQQ5		



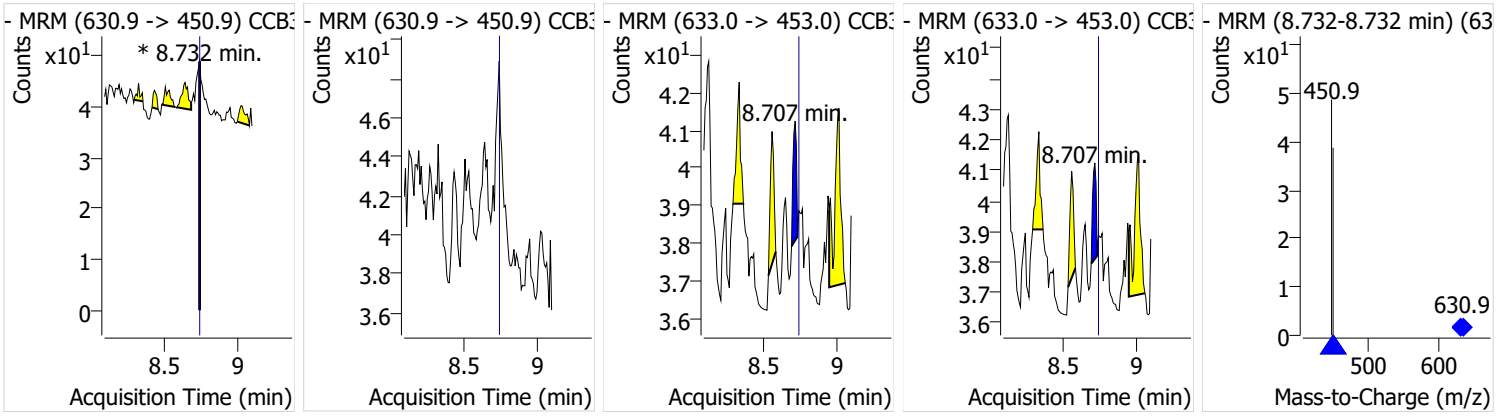
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
11Cl-PF3OUdS	8.732	0			13C3-HFPODA - ISTD	5.375	168960	-	ng/ml	✔	1	AMS 05/29/24
633.0 -> 453.0				*								
3:3FTCA	3.724	0			13C5-PFPeA - ISTD	4.212	214278	-	ng/ml	✔	1	AMS 05/29/24
241.0 -> 117.0				*								
4:2FTS	4.863	0			13C2-4:2FTS - ISTD	4.870	39191	-	ng/ml	✔	1	AMS 05/29/24
327.0 -> 80.9				*								
5:3FTCA	5.501	0			13C5-PFHxA - ISTD	5.109	152023	-	ng/ml	✔	1	AMS 05/29/24
341.0 -> 217.0				*								
6:2FTS	6.106	0			13C2-6:2FTS - ISTD	6.114	30067	-	ng/ml	✔	1	AMS 05/29/24
427.0 -> 80.9				*								
7:3FTCA	6.674	766	123.64		13C5-PFHxA - ISTD	5.109	152023	0.0783	ng/ml			
441.0 -> 317.0			95.18	95.0								
8:2FTS	7.023	0			13C2-8:2FTS - ISTD	7.039	26748	-	ng/ml	✔	1	AMS 05/29/24
527.0 -> 81.0				*								
9Cl-PF3ONS	7.826	0			13C3-HFPODA - ISTD	5.375	168960	-	ng/ml	✔	1	AMS 05/29/24
533.0 -> 353.0				*								
ADONA	6.004	0			13C3-HFPODA - ISTD	5.375	168960	-	ng/ml	✔	1	AMS 05/29/24
377.0 -> 85.1				*								
HFPO-DA	5.384	0			13C3-HFPODA - ISTD	5.375	168960	-	ng/ml	✔	1	AMS 05/29/24

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
285.0 -> 184.9				*								
NEtFOSA	10.356	0			D5-NEtFOSA - ISTD	10.362	23065	-	ng/ml	✔	1	AMS 05/29/24
526.0 -> 219.0				*								
NEtFOSAA	7.461	0			D5-NEtFOSAA - ISTD	7.453	82917	-	ng/ml	✔	1	AMS 05/29/24
584.0 -> 526.0				*								
NEtFOSE	10.253	0			D9-NEtFOSE - ISTD	10.227	230978	-	ng/ml	✔	1	AMS 05/29/24
NFDHA	5.007	0			13C5-PFHxA - ISTD	5.109	152023	-	ng/ml	✔	1	AMS 05/29/24
295.0 -> 85.0				*								
NMeFOSA	10.061	0			D3-NMeFOSA - ISTD	10.043	22254	-	ng/ml	✔	1	AMS 05/29/24
512.0 -> 219.0				*								
NMeFOSAA	7.266	0			D3-NMeFOSAA - ISTD	7.266	165497	-	ng/ml	✔	1	AMS 05/29/24
570.0 -> 418.9				*								
NMeFOSE	9.890	0			D7-NMeFOSE - ISTD	9.890	218334	-	ng/ml	✔	1	AMS 05/29/24
PFBA	2.637	0			13C4-PFBA - ISTD	2.623	270626	-	ng/ml	✔	1	AMS 05/29/24
PFBS	5.048	0			13C3-PFBS - ISTD	5.120	66850	-	ng/ml	✔	1	AMS 05/29/24
298.9 -> 98.8				*								
PFDA	7.204	0			13C6-PFDA - ISTD	7.253	80769	-	ng/ml	✔	1	AMS 05/29/24
513.0 -> 219.0				*								
PFDoA	8.129	0			13C2-PFDoA - ISTD	8.136	71269	-	ng/ml	✔	1	AMS 05/29/24
613.0 -> 319.0				*								
PFDoS	9.180	0			13C8-PFOS - ISTD	7.492	40835	-	ng/ml	✔	1	AMS 05/29/24
698.9 -> 99.0				*								
PFDS	8.345	0			13C8-PFOS - ISTD	7.492	40835	-	ng/ml	✔	1	AMS 05/29/24
599.0 -> 98.8				*								
PFEESA	5.511	0			13C5-PFHxA - ISTD	5.109	152023	-	ng/ml	✔	1	AMS 05/29/24
315.0 -> 83.0				*								
PFHpA	5.781	0			13C4-PFHpA - ISTD	5.789	200747	-	ng/ml	✔	1	AMS 05/29/24
362.9 -> 169.0				*								
PFHpS	6.862	0			13C8-PFOS - ISTD	7.492	40835	-	ng/ml	✔	1	AMS 05/29/24
449.0 -> 98.8				*								
PFHxA	5.119	0			13C5-PFHxA - ISTD	5.109	152023	-	ng/ml	✔	1	AMS 05/29/24

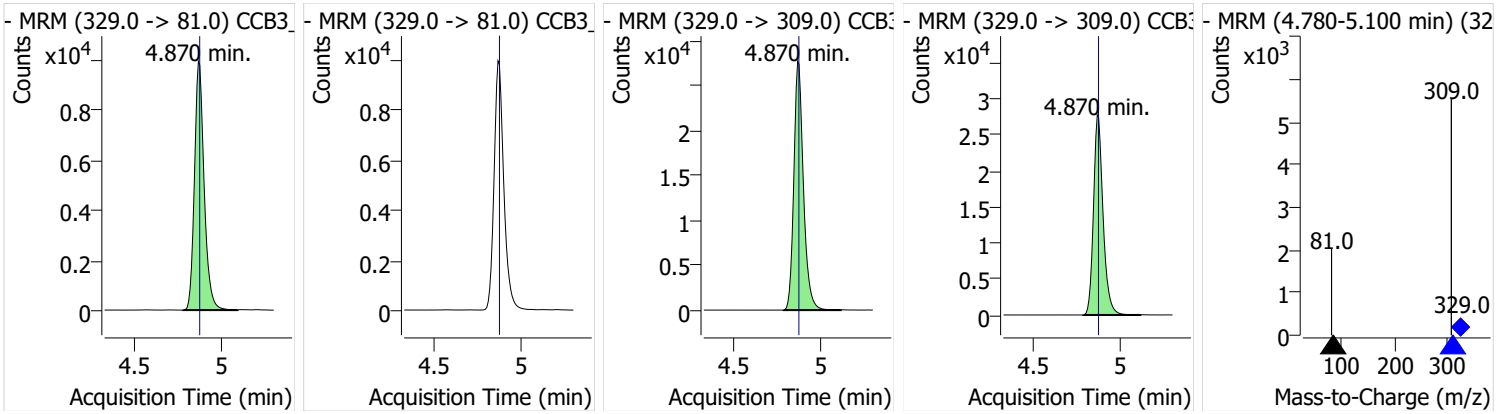
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
313.0 -> 118.9				*								
PFHxS	6.497	0			13C3-PFHxS - ISTD	6.496	45221	-	ng/ml	✔	1	AMS 05/29/24
398.9 -> 99.0				*								
PFMBA	4.614	0			13C5-PFPeA - ISTD	4.212	214278	-	ng/ml	✔	1	AMS 05/29/24
PFMPA	3.374	0			13C5-PFPeA - ISTD	4.212	214278	-	ng/ml	✔	1	AMS 05/29/24
PFNA	6.845	0			13C9-PFNA - ISTD	6.804	87416	-	ng/ml	✔	1	AMS 05/29/24
463.0 -> 219.0				*								
PFNS	8.033	0			13C8-PFOS - ISTD	7.492	40835	-	ng/ml	✔	1	AMS 05/29/24
549.0 -> 98.8				*								
PFOA	6.329	0			13C8-PFOA - ISTD	6.328	185789	-	ng/ml	✔	1	AMS 05/29/24
413.0 -> 169.0				*								
PFOS	7.477	0			13C8-PFOS - ISTD	7.492	40835	-	ng/ml	✔	1	AMS 05/29/24
499.0 -> 99.0				*								
PFOSA	8.702	0			13C8-PFOSA - ISTD	8.709	73066	-	ng/ml	✔	1	AMS 05/29/24
497.9 -> 478.0				*								
PFPeA	4.214	0			13C5-PFPeA - ISTD	4.212	214278	-	ng/ml	✔	1	AMS 05/29/24
263.0 -> 69.0				*								
PFPeS	5.873	0			13C3-PFHxS - ISTD	6.496	45221	-	ng/ml	✔	1	AMS 05/29/24
349.0 -> 98.9				*								
PFTeDA	8.901	0			13C2-PFTeDA - ISTD	8.950	97415	-	ng/ml	✔	1	AMS 05/29/24
713.0 -> 168.9				*								
PFTrDA	8.432	0			13C2-PFDoA - ISTD	8.136	71269	-	ng/ml	✔	1	AMS 05/29/24
663.0 -> 168.9				*								
PFUnA	7.702	0			13C7-PFUnA - ISTD	7.701	74985	-	ng/ml	✔	1	AMS 05/29/24
563.0 -> 269.1				*								
TDCA	5.458	15	5.00					-	ng/ml			
499.0 -> 99.0				*								
13C2-8:2FTS	7.038	57513	42072.88		18O2-PFHxS	6.495	42458	4.9600	ng/ml			
529.0 -> 81.0			7070.28	46.5								
13C2-4:2FTS	4.870	108447	48683.59		18O2-PFHxS	6.495	42458	5.0172	ng/ml			
329.0 -> 81.0			4294.03	36.1								
13C2-6:2FTS	6.113	91832	14994.66		18O2-PFHxS	6.495	42458	4.7798	ng/ml			

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
429.0 -> 81.0			3717.28	32.7								
13C5-PFHxA	5.109	152023	18355.76		13C2-PFHxA	5.110	133200	2.6937	ng/ml			
318.0 -> 120.0			267.94	1.8								
13C6-PFDA	7.253	80769	6060.42		13C2-PFDA	7.253	73507	1.3799	ng/ml			
13C7-PFUnA	7.701	74985	16841.08		13C2-PFDA	7.253	73507	1.3703	ng/ml			
13C8-PFOA	6.328	185789	33008.71		13C4-PFOA	6.329	20596	2.7569	ng/ml			
13C8-PFOS	7.492	40835	8840.88		13C4-PFOS	7.492	40600	2.7117	ng/ml			
507.0 -> 99.0			15558.23	52.2								
13C8-PFOSA	8.709	73066	702052.93		13C4-PFOS	7.492	40600	2.6852	ng/ml			
13C9-PFNA	6.804	87416	10295.45		13C5-PFNA	6.804	107918	1.3165	ng/ml			
13C5-PFPeA	4.212	214278	15842.52		13C2-PFHxA	5.110	133200	5.1202	ng/ml			
13C2-PFDoA	8.136	71269	14127.30		13C2-PFDA	7.253	73507	1.2618	ng/ml			
13C4-PFHpA	5.789	200747	20046.30		13C2-PFHxA	5.110	133200	2.7266	ng/ml			
13C4-PFBA	2.623	267003	43902.33		13C3-PFBA	2.625	114213	10.7014	ng/ml	✔	3	AMS 05/29/24
13C3-PFHxS	6.496	45221	10425.94		18O2-PFHxS	6.495	42458	2.5952	ng/ml			
402.0 -> 99.0			11428.80	54.6								
13C3-PFBS	5.120	66850	12100.28		18O2-PFHxS	6.495	42458	2.6513	ng/ml			
301.9 -> 98.9			3761.24	36.6								
13C3-HFPODA	5.375	168960	33435.76		13C2-PFHxA	5.110	133200	10.4388	ng/ml			
287.0 -> 185.0			9910.43	46.9								
13C2-PFTeDA	8.950	97415	24577.11		13C2-PFDA	7.253	73507	1.2790	ng/ml			
D9-NEtFOSE	10.227	230978	52615.62		13C4-PFOS	7.492	40600	26.2398	ng/ml			
D3-NMeFOSA	10.043	22254	8358.23		13C4-PFOS	7.492	40600	2.5035	ng/ml			
D3-NMeFOSAA	7.266	165497	23191.89		13C4-PFOS	7.492	40600	5.4850	ng/ml			
D5-NEtFOSA	10.362	23065	6523.25		13C4-PFOS	7.492	40600	2.5488	ng/ml			
D5-NEtFOSAA	7.453	82917	17450.92		13C4-PFOS	7.492	40600	5.4892	ng/ml			
D7-NMeFOSE	9.890	218334	84155.47		13C4-PFOS	7.492	40600	26.5416	ng/ml			

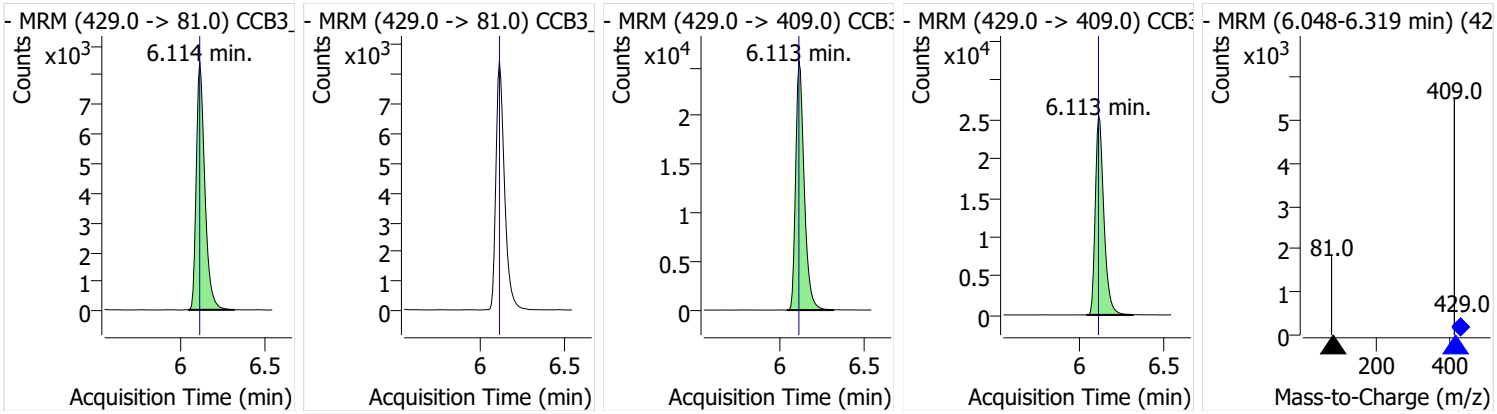
11Cl-PF3OUdS



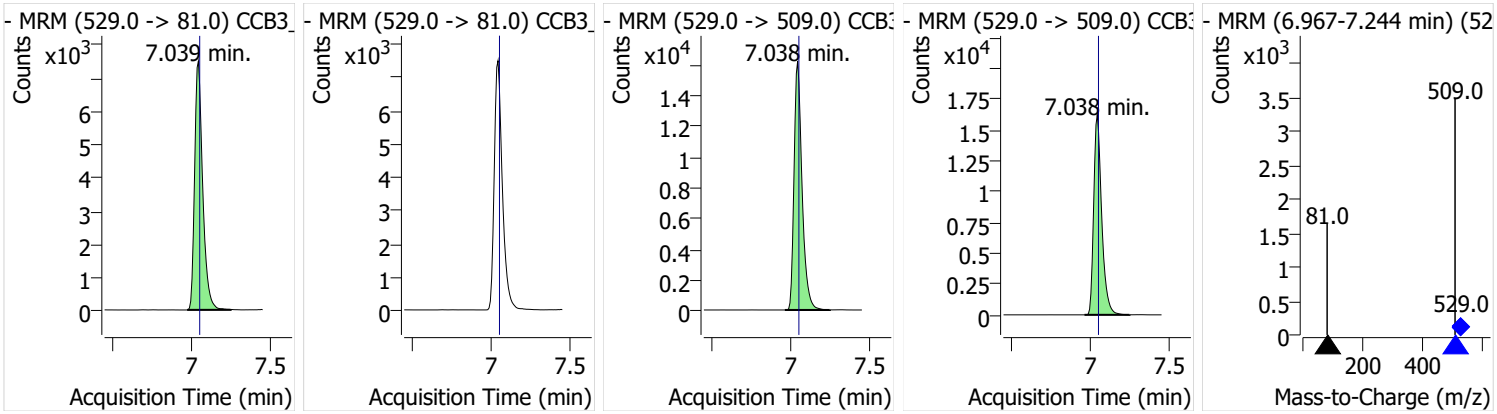
13C2-4:2FTS - ISTD



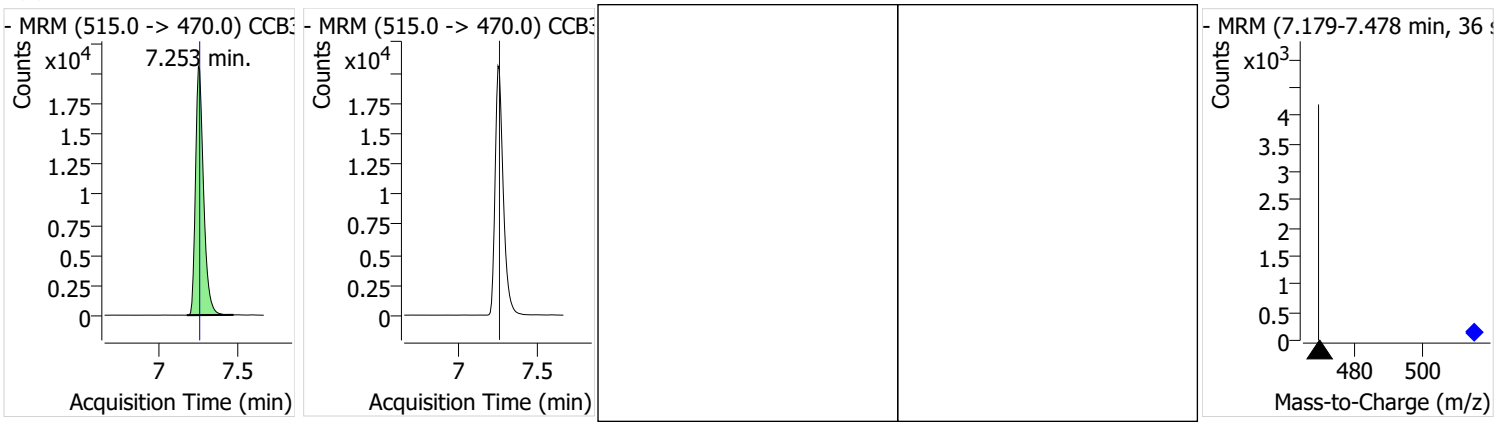
13C2-6:2FTS - ISTD



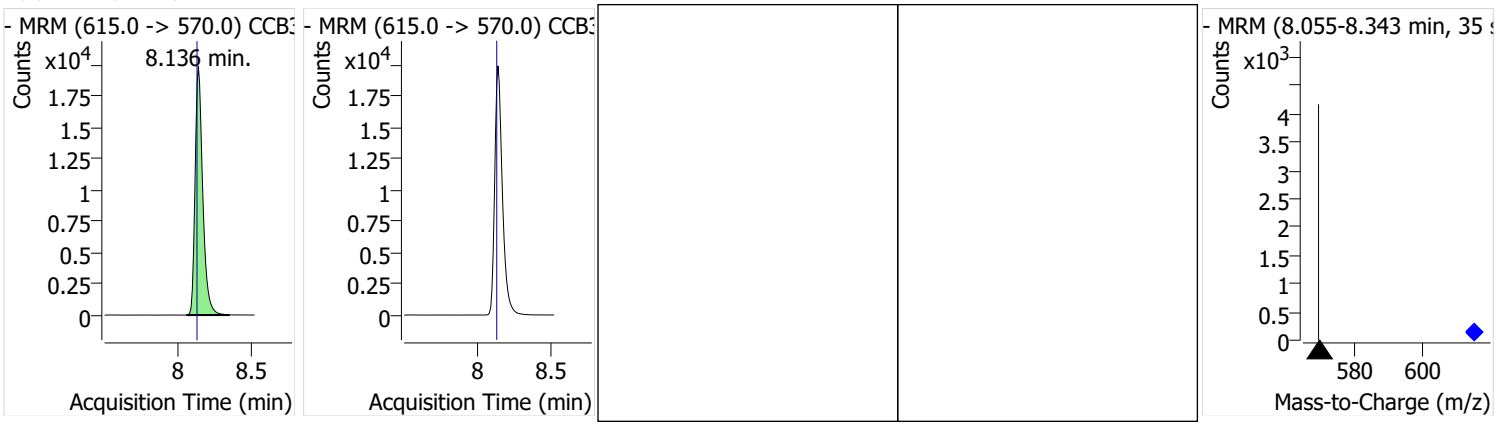
13C2-8:2FTS - ISTD



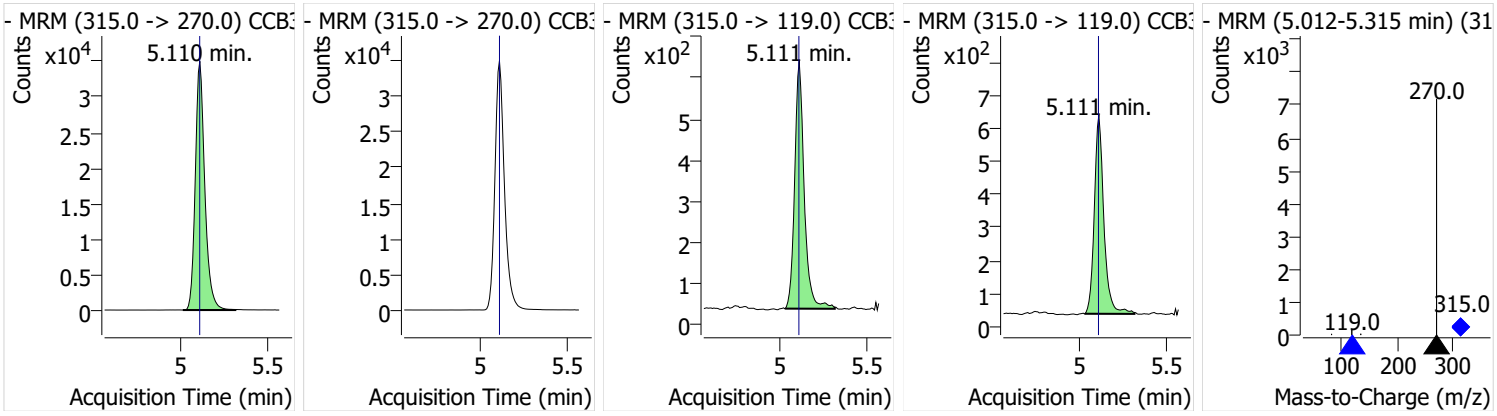
13C2-PFDA



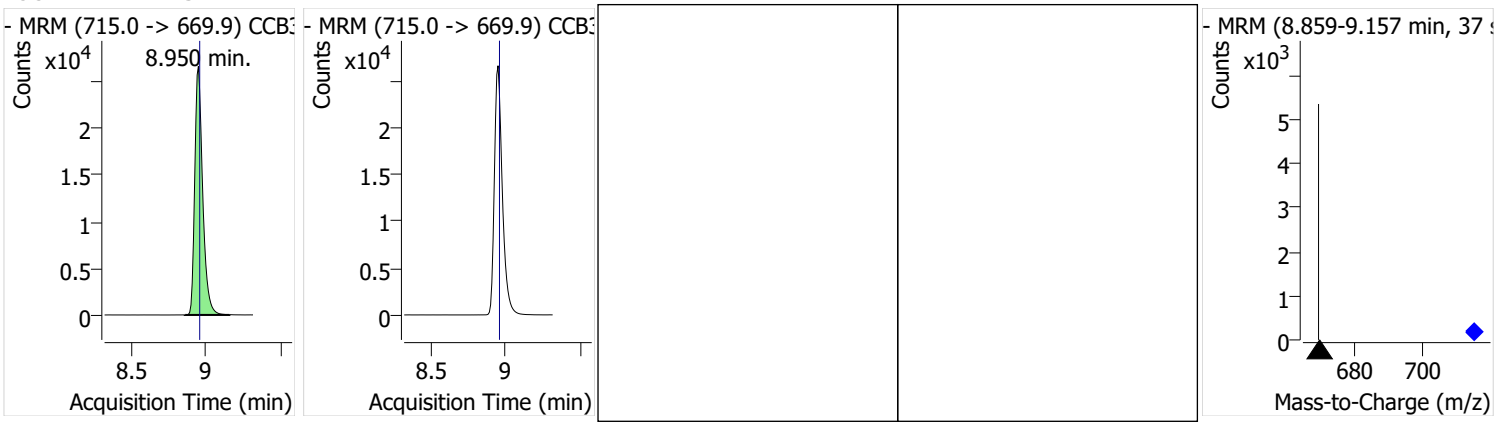
13C2-PFDoA - ISTD



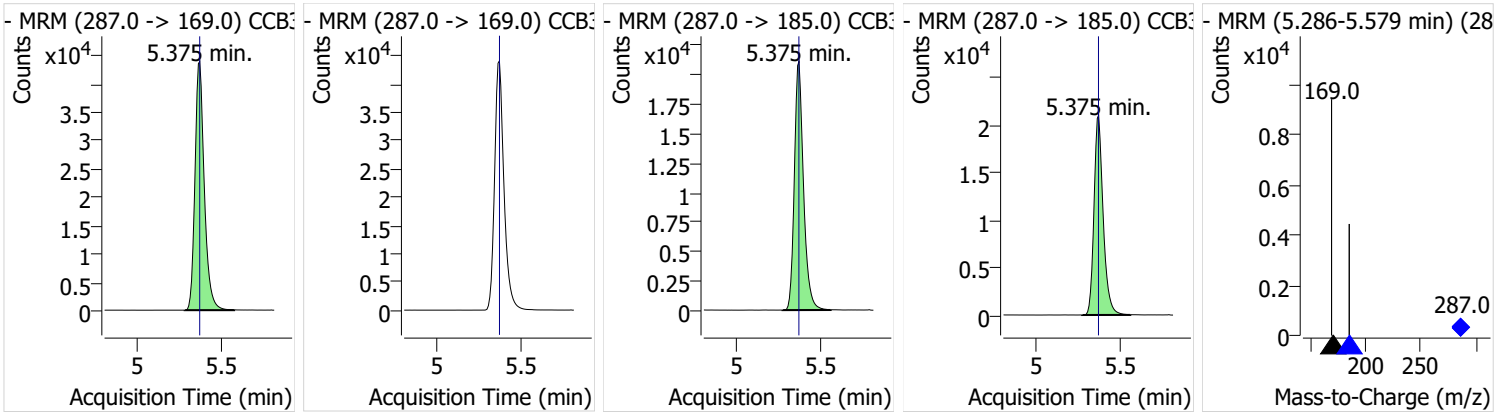
13C2-PFHxA



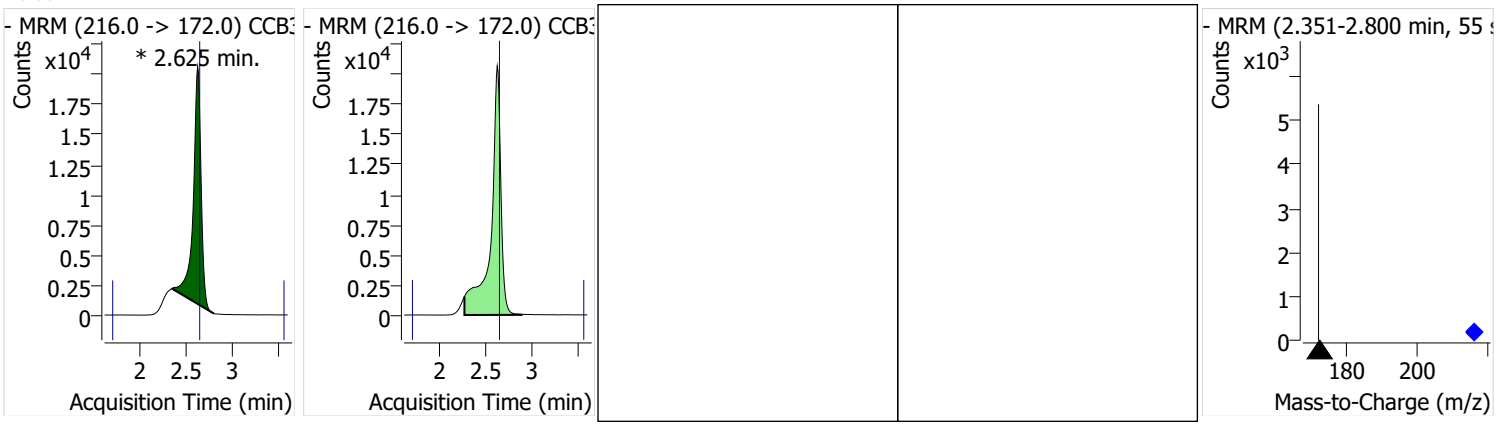
13C2-PFTeDA - ISTD



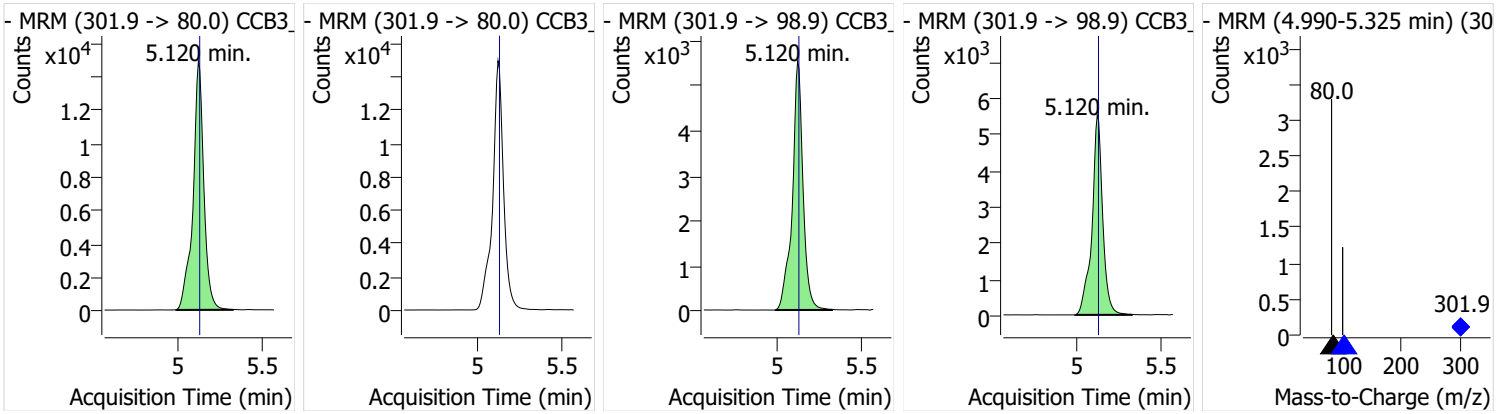
13C3-HFPODA - ISTD



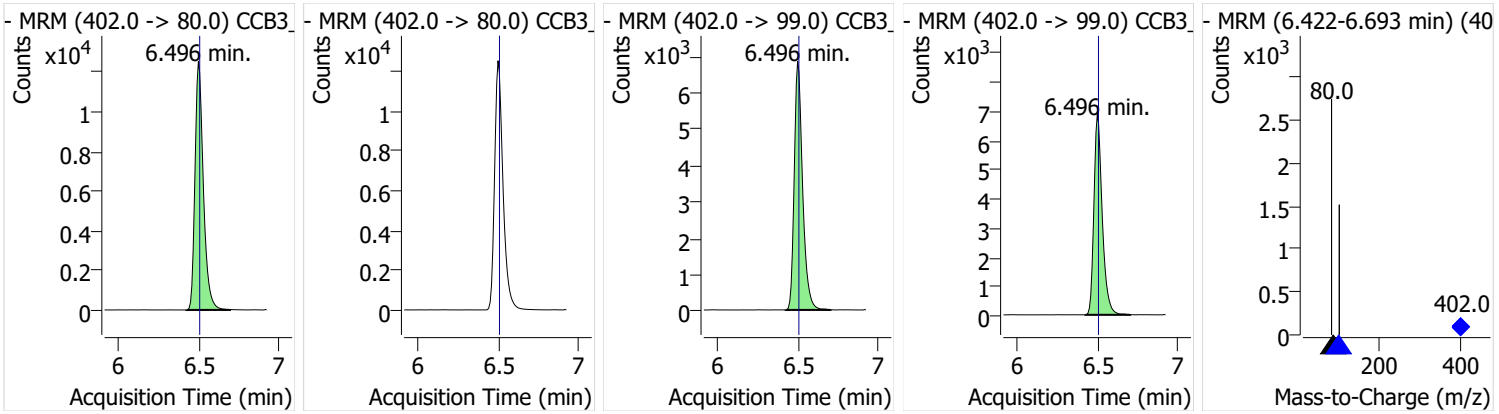
13C3-PFBA



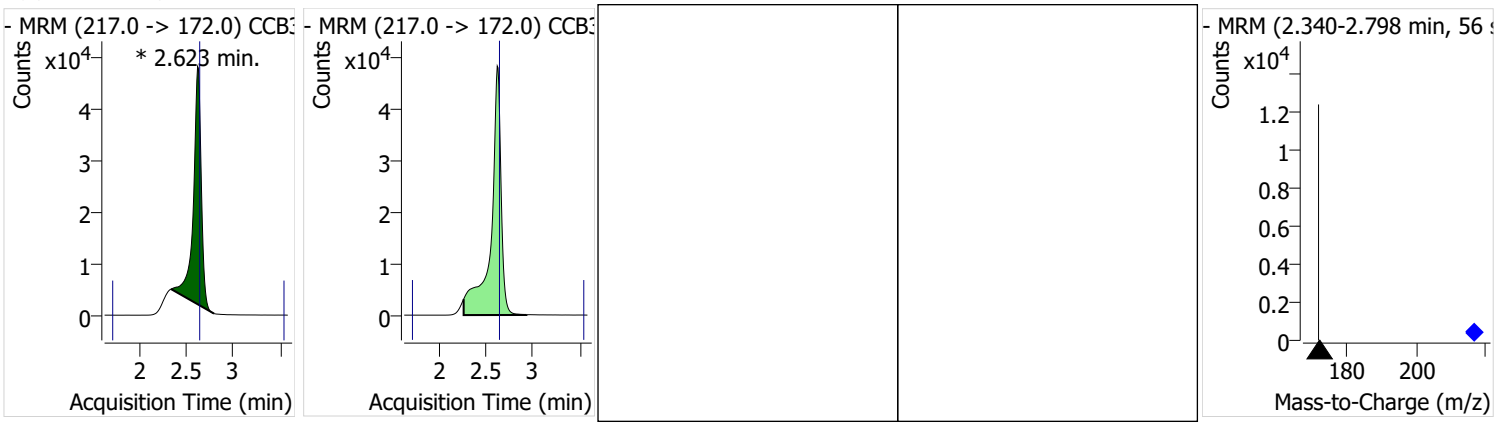
13C3-PFBS - ISTD



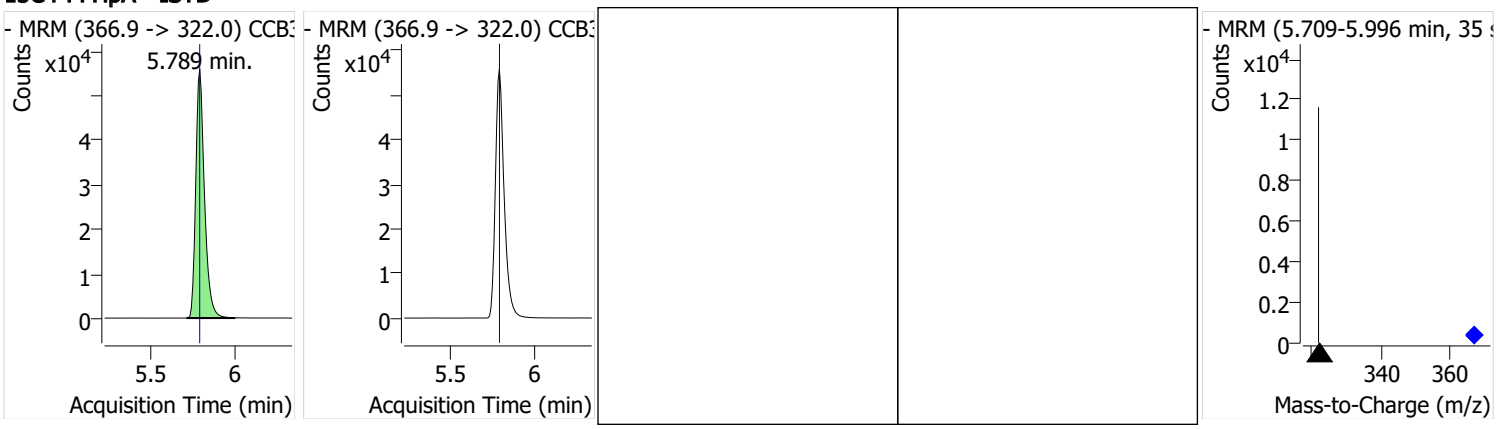
13C3-PFHxS - ISTD



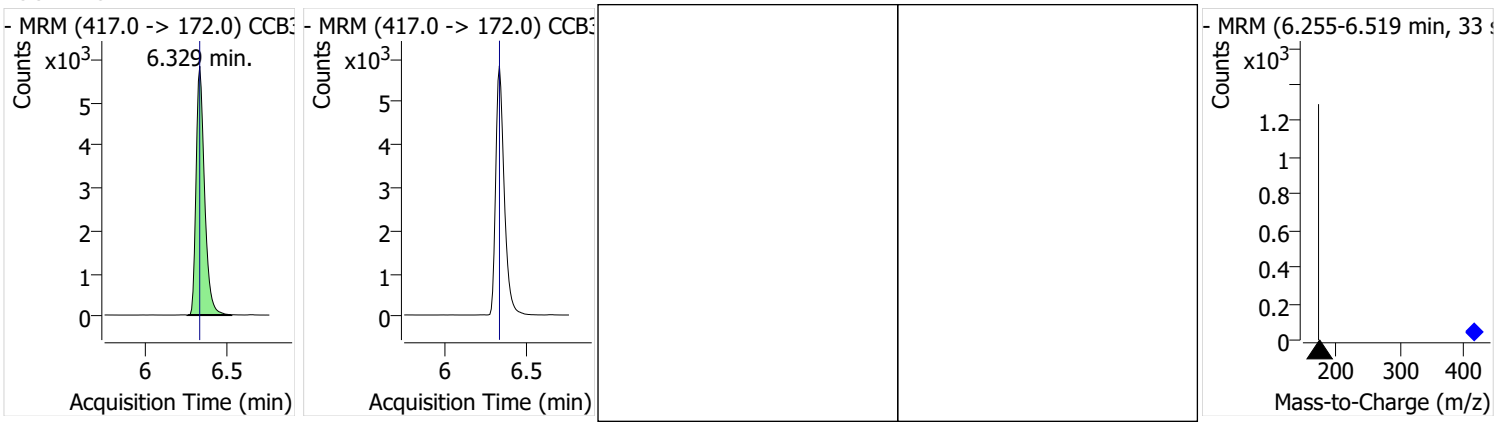
13C4-PFBA - ISTD



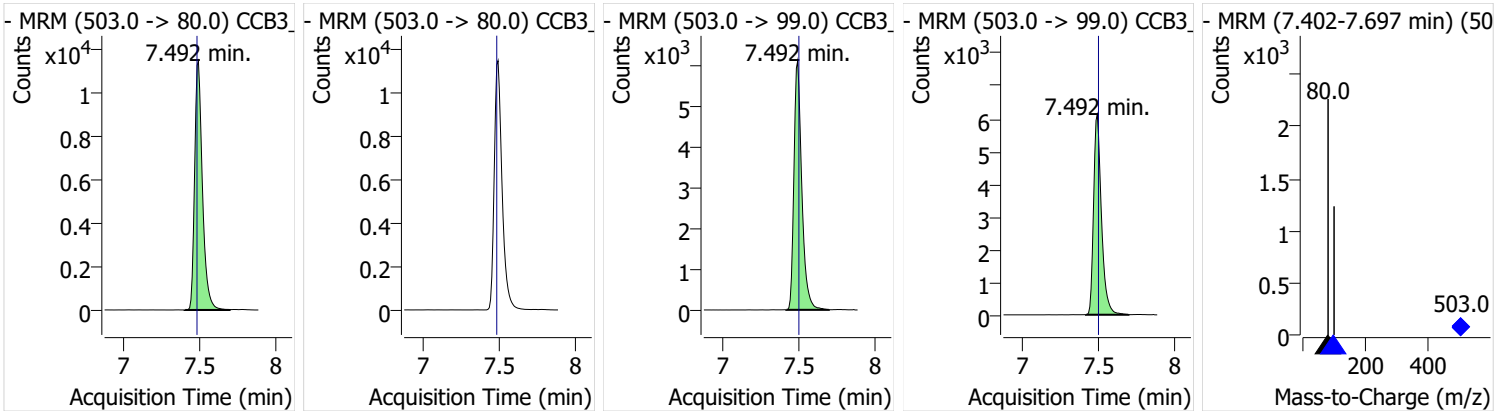
13C4-PFHpA - ISTD



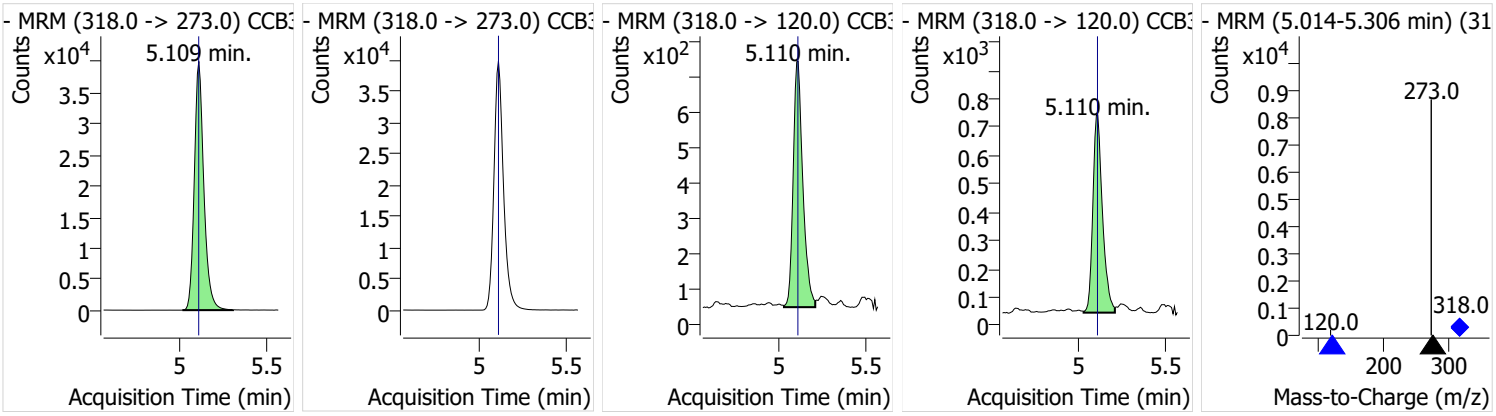
13C4-PFOA



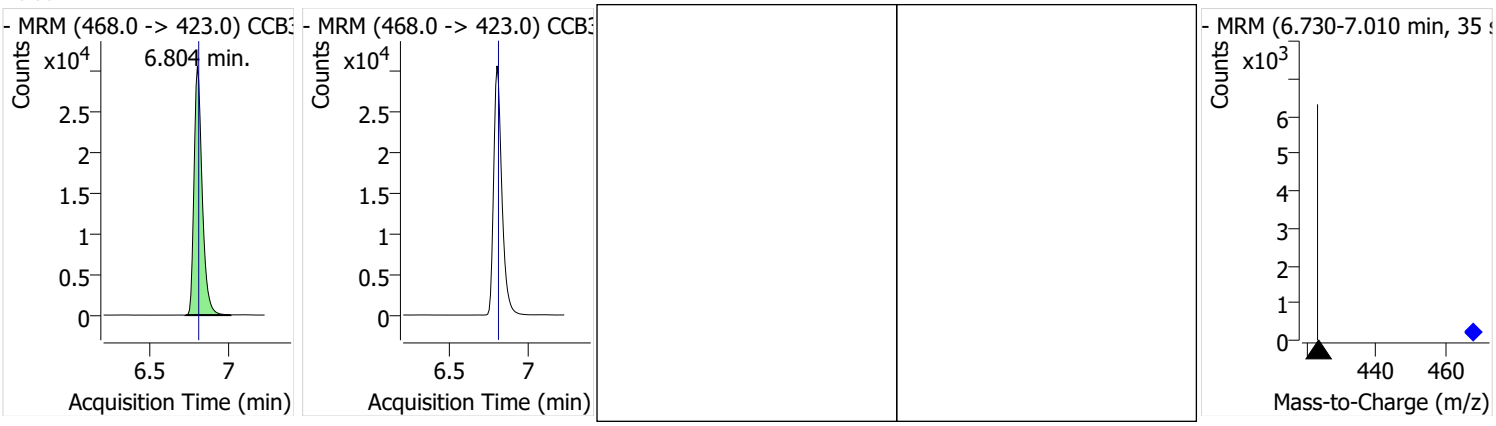
13C4-PFOS



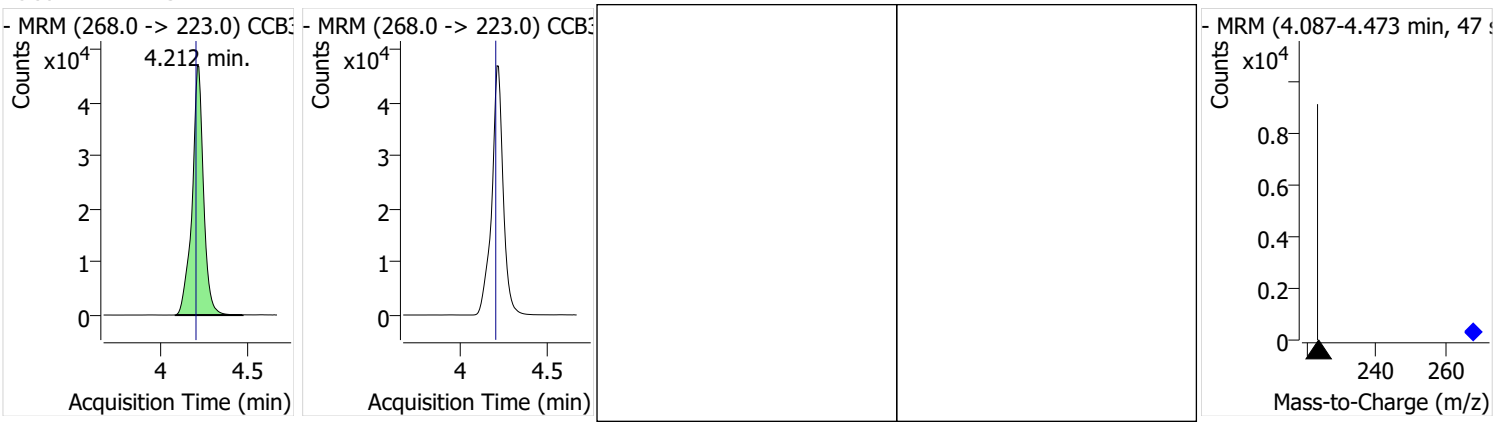
13C5-PFHxA - ISTD



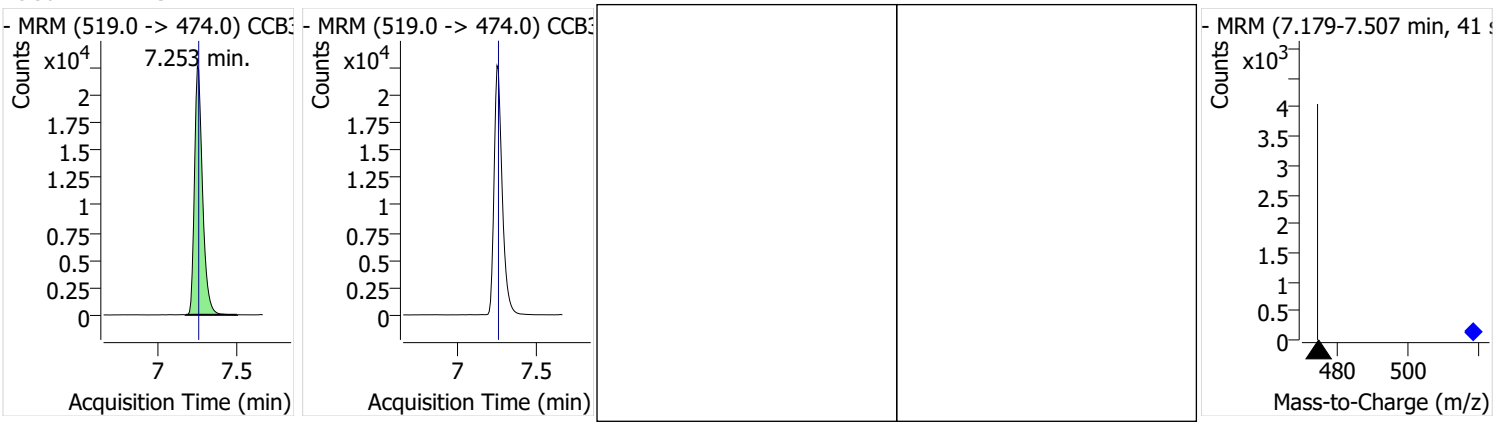
13C5-PFNA



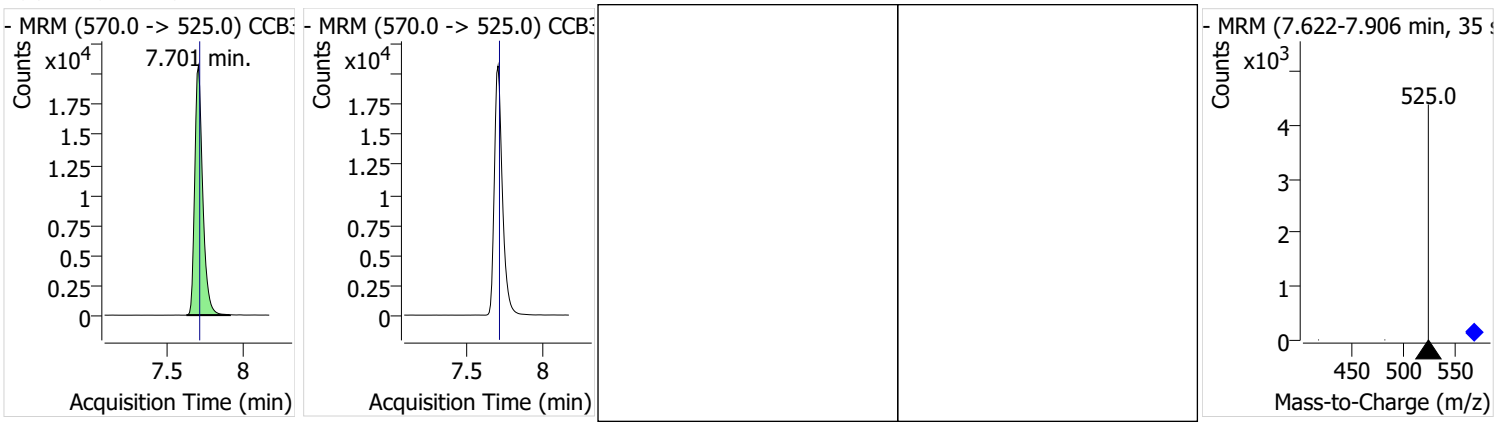
13C5-PFPeA - ISTD



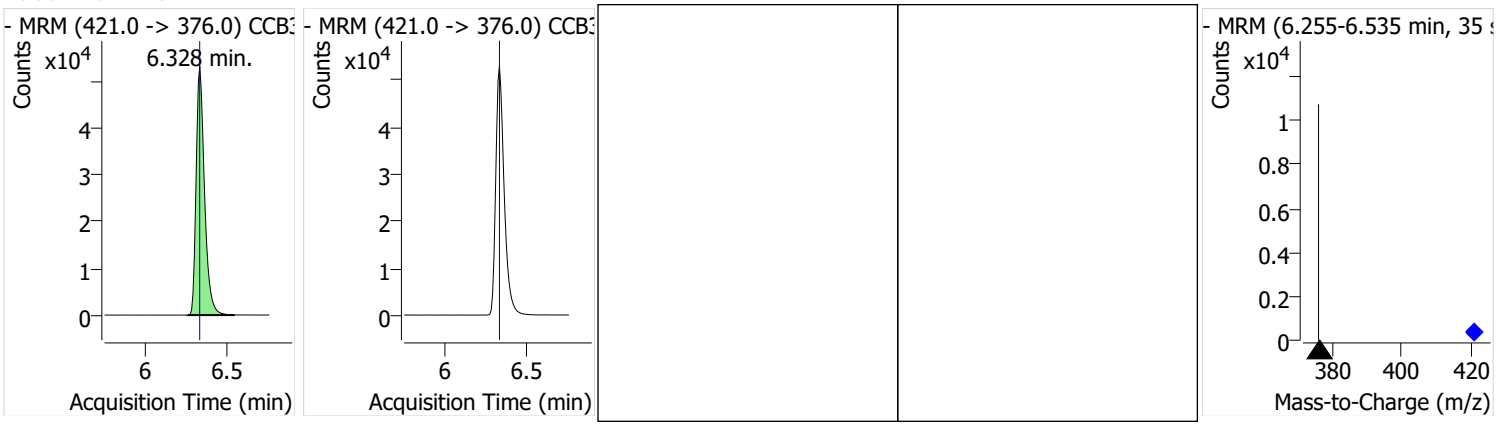
13C6-PFDA - ISTD



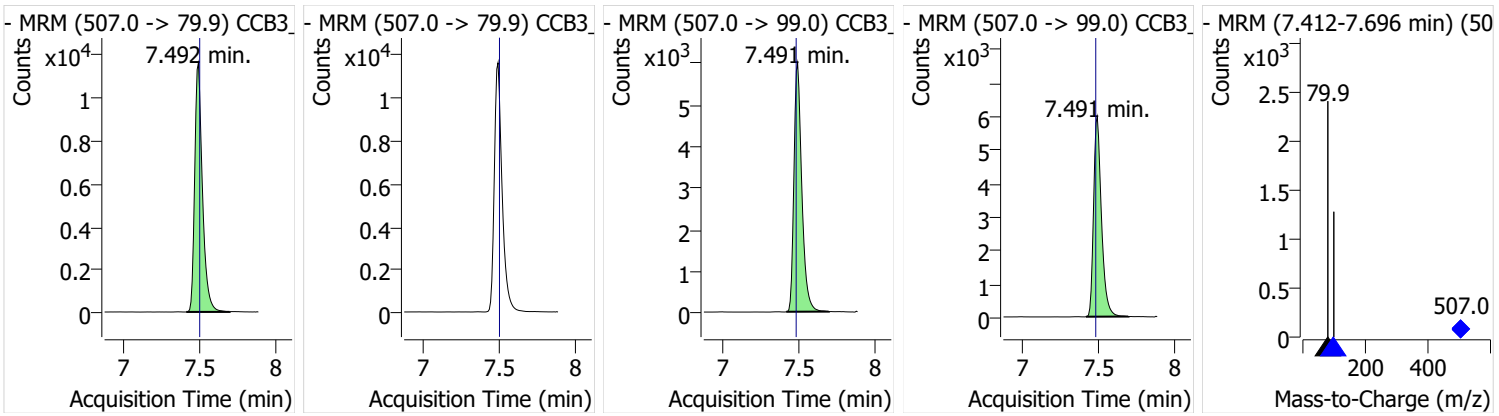
13C7-PFUnA - ISTD



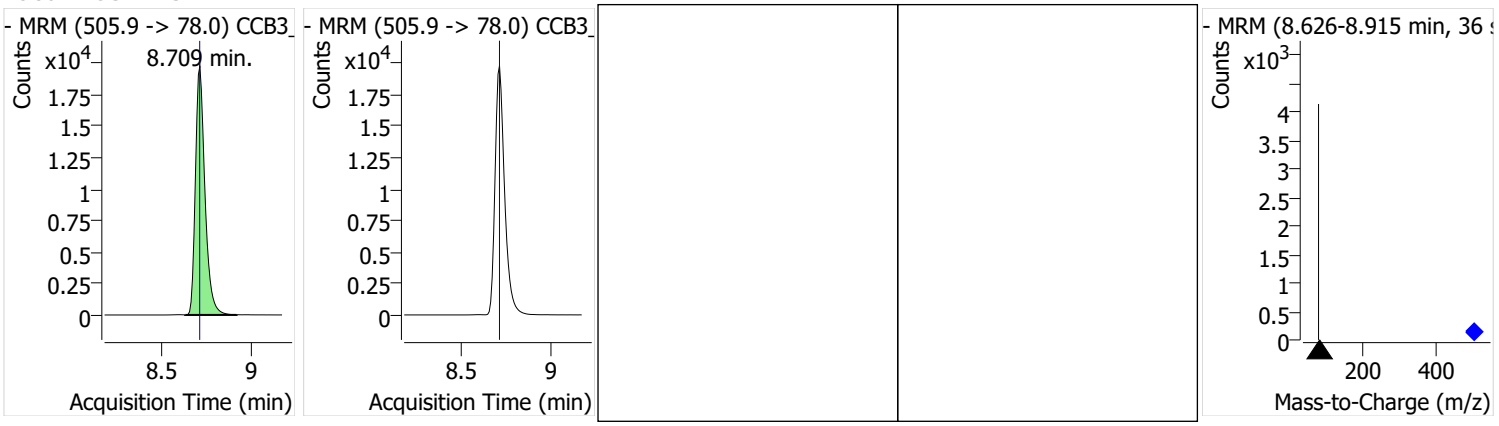
13C8-PFOA - ISTD



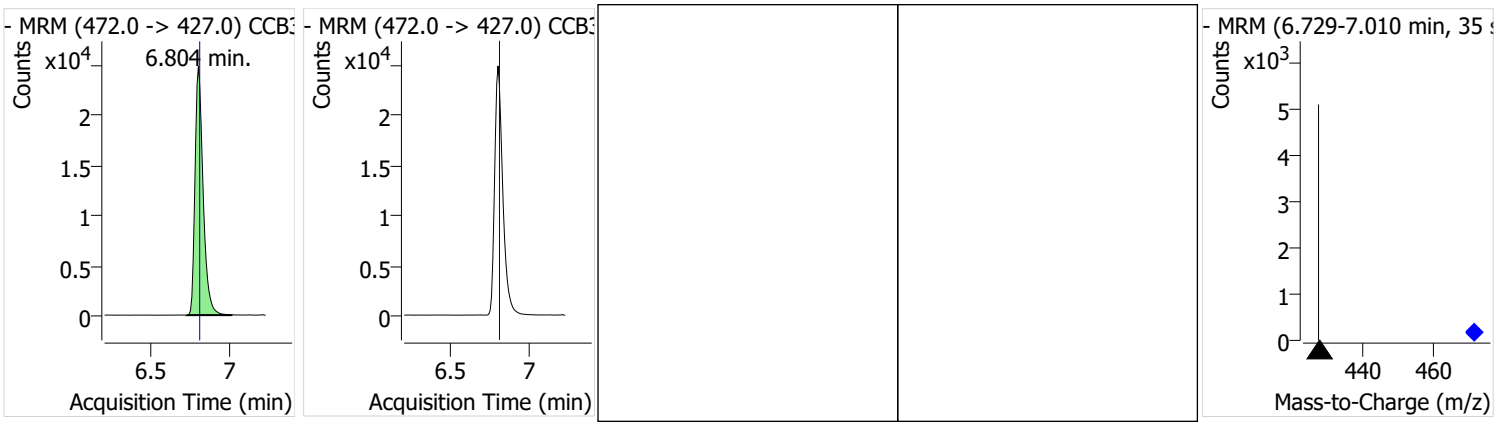
13C8-PFOS - ISTD



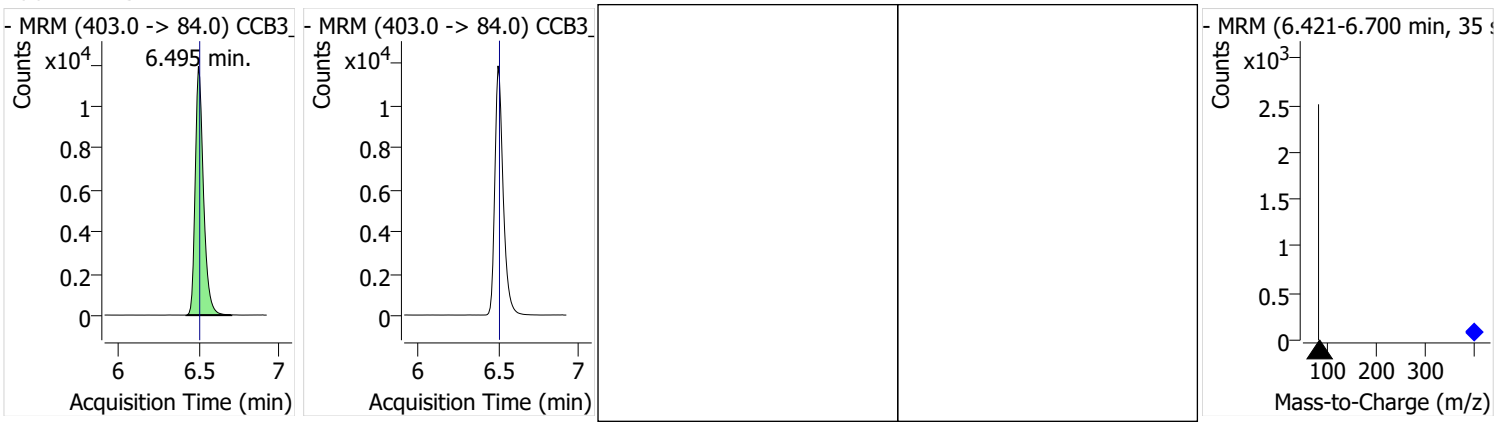
13C8-PFOSA - ISTD



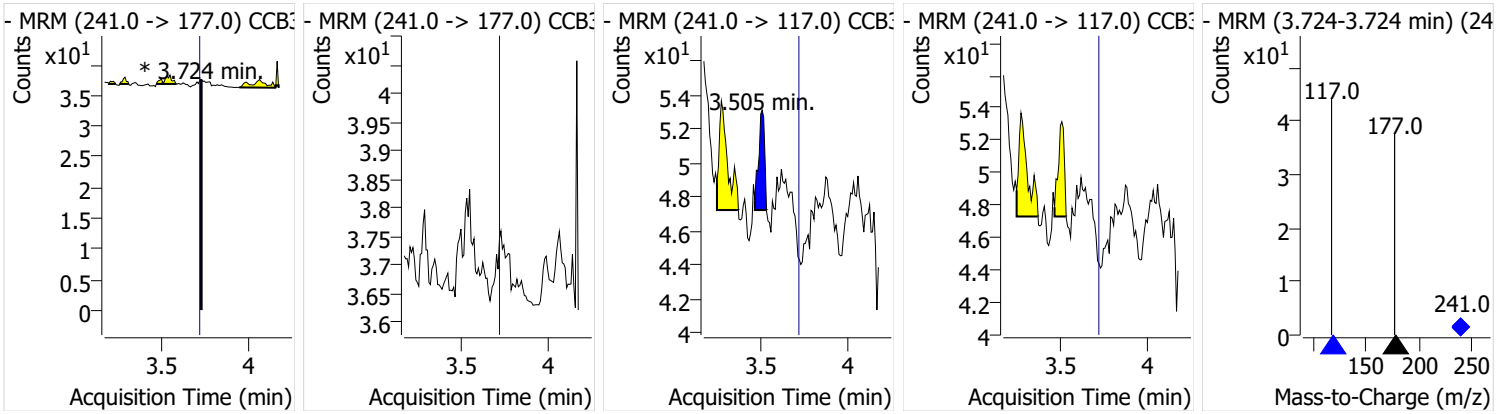
13C9-PFNA - ISTD



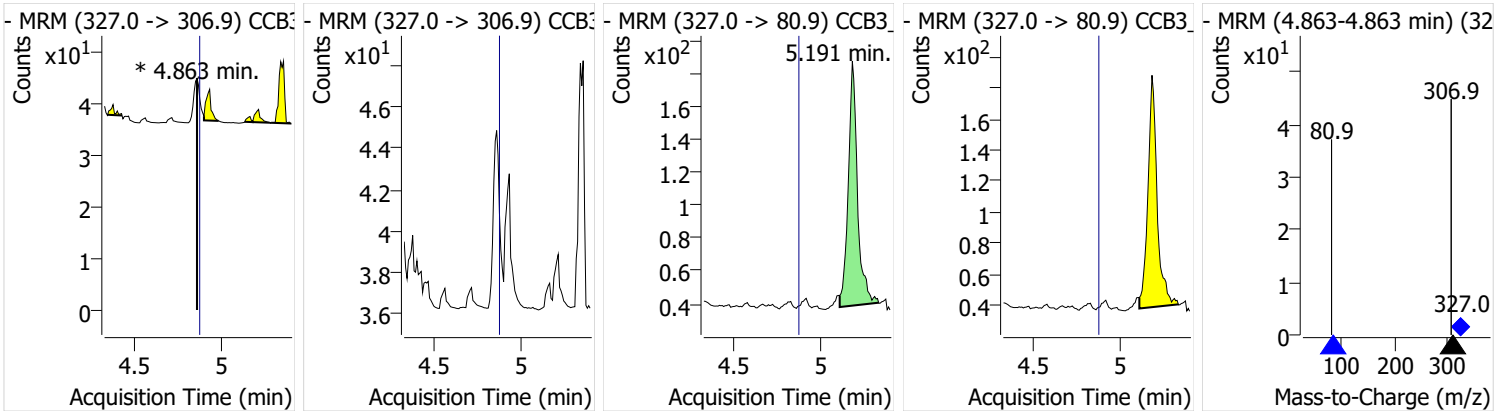
18O2-PFHxS



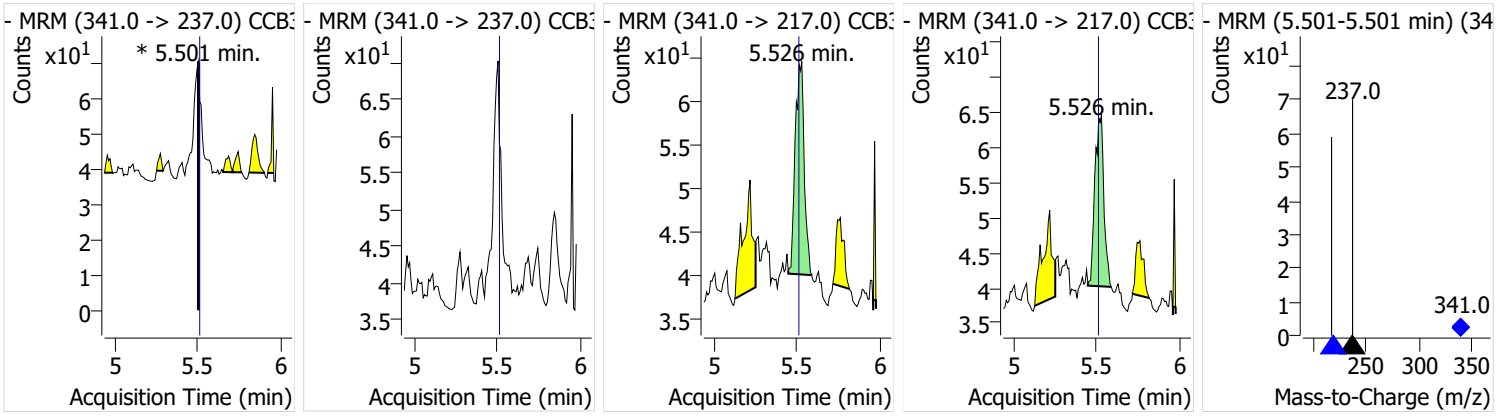
3:3FTCA



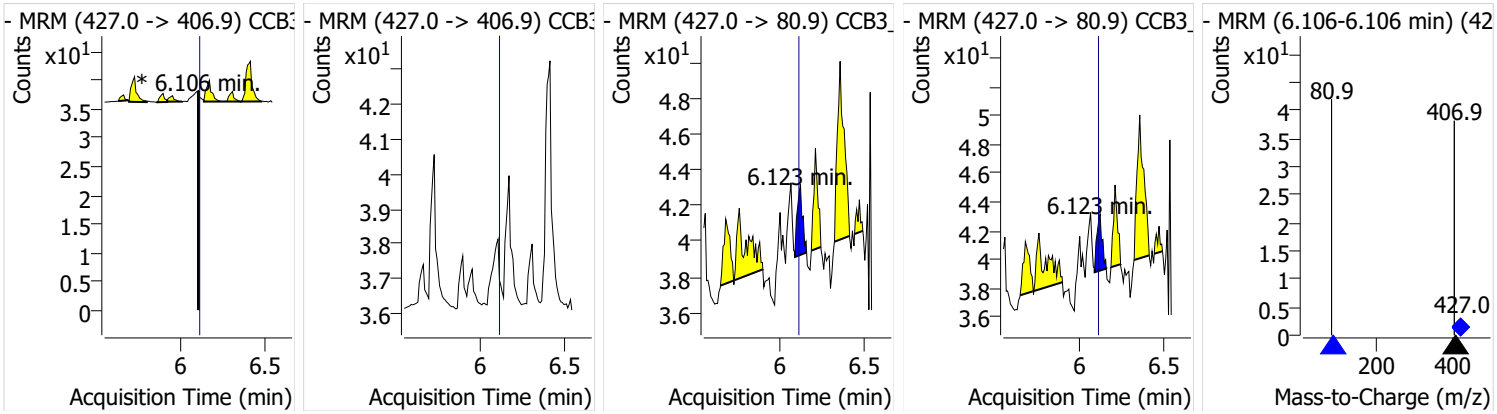
4:2FTS



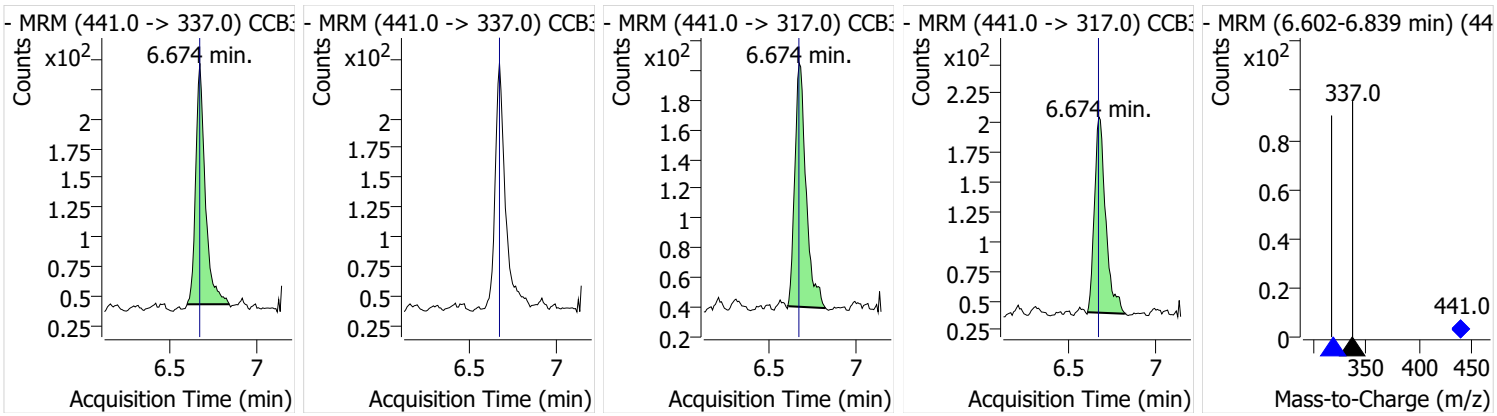
5:3FTCA



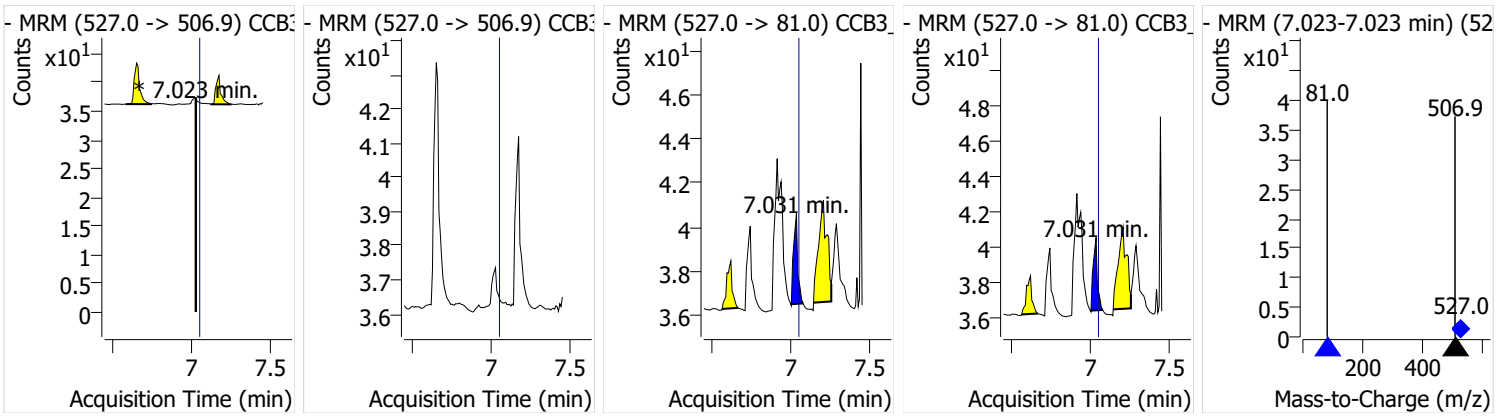
6:2FTS



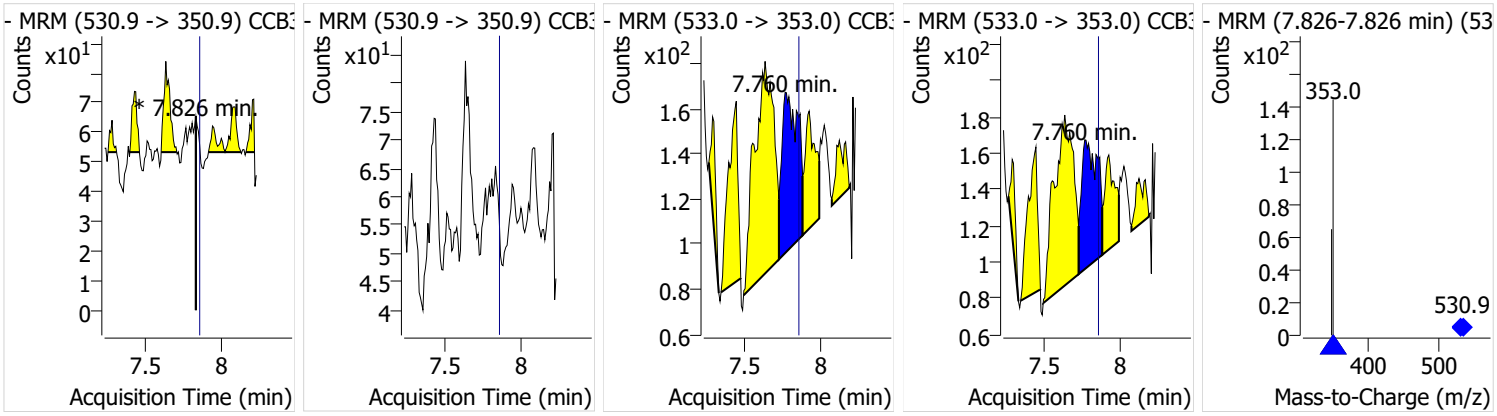
7:3FTCA



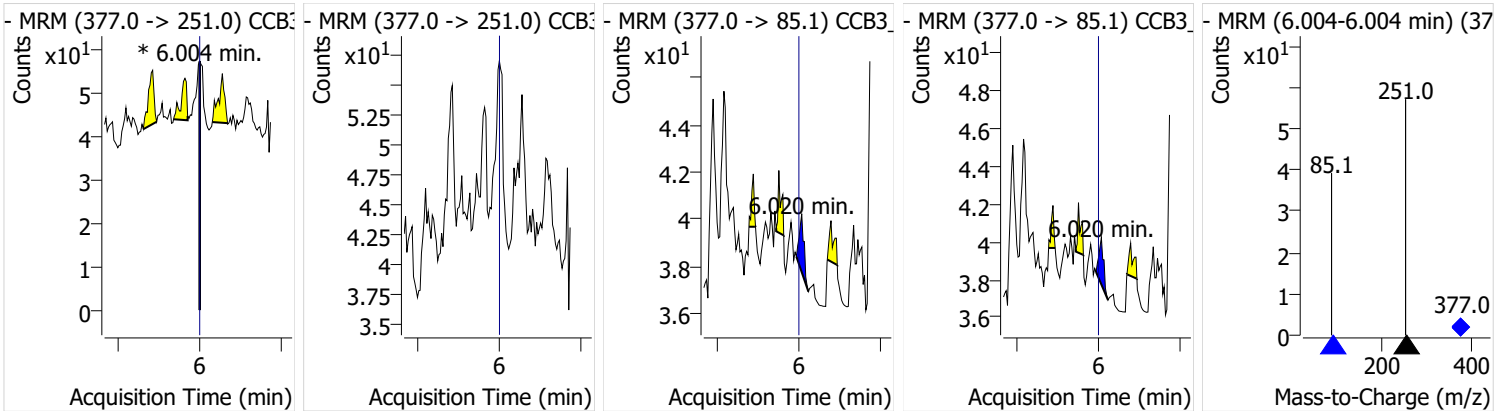
8:2FTS



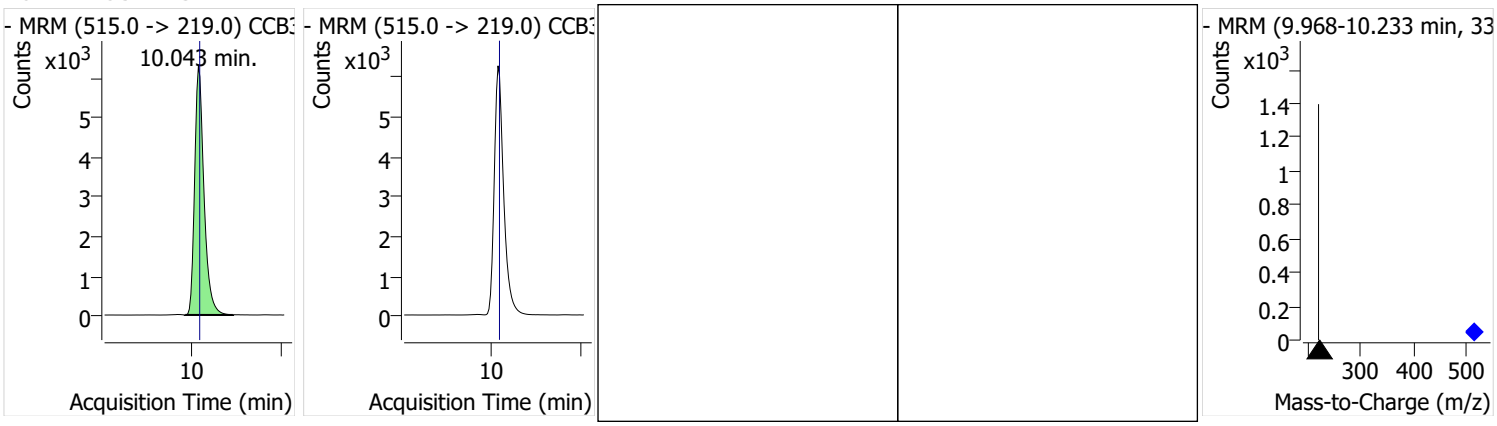
9Cl-PF3ONS



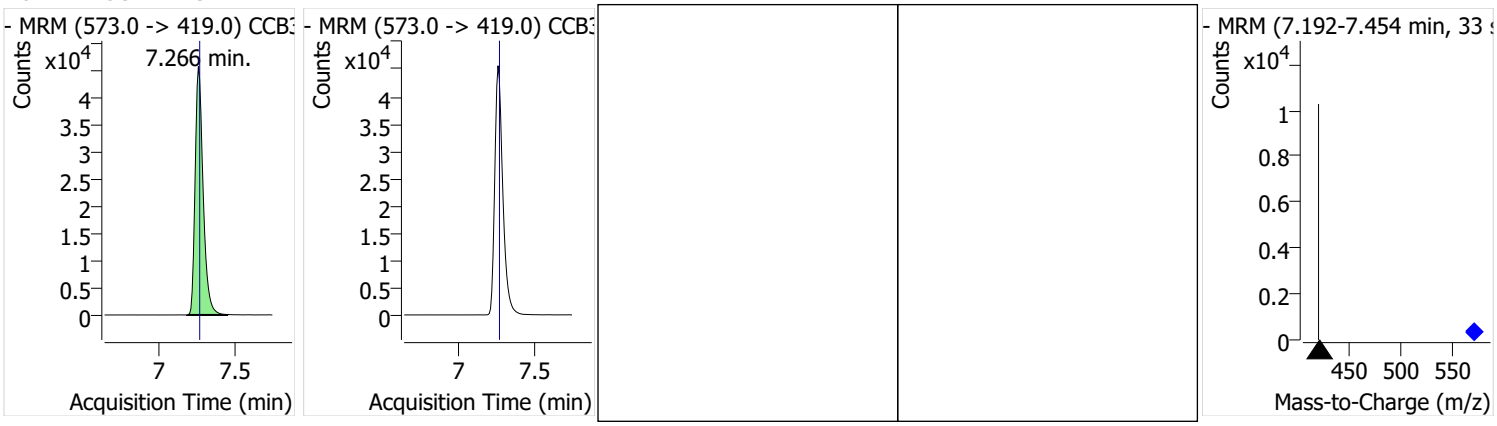
ADONA



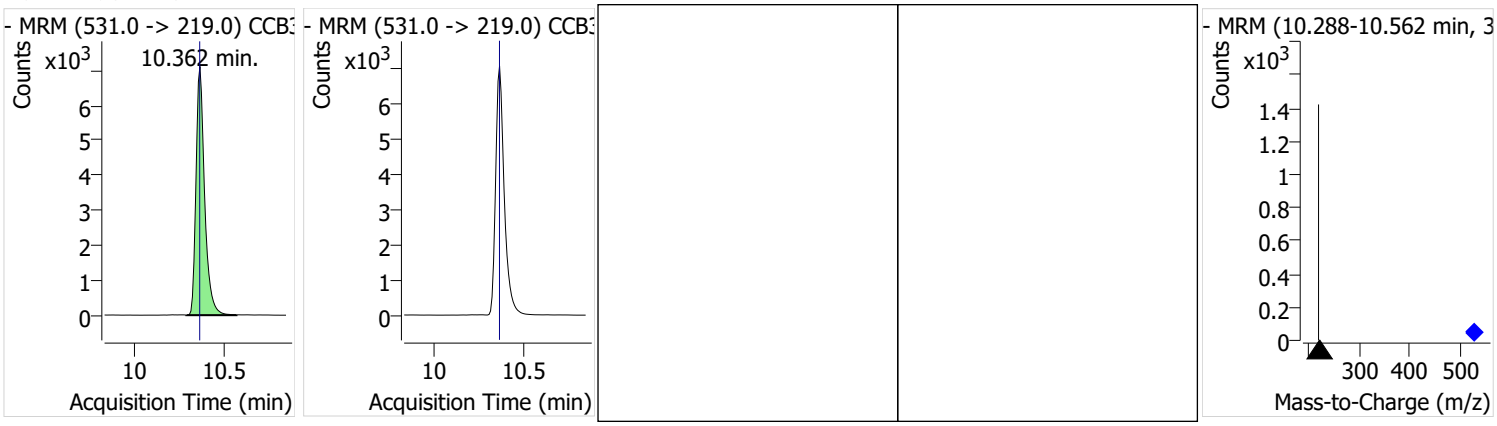
D3-NMeFOSA - ISTD



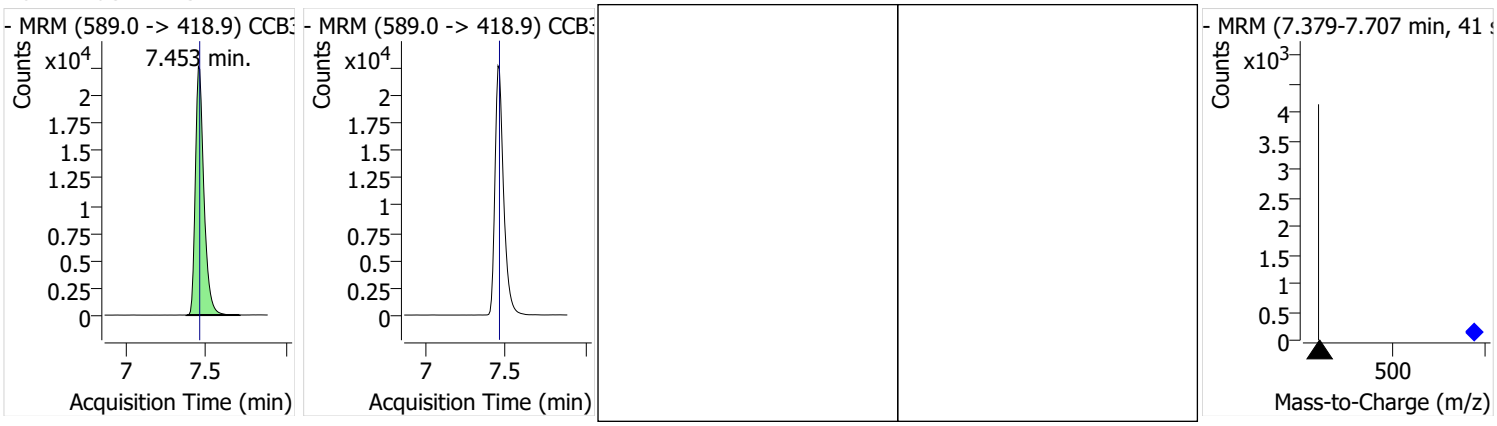
D3-NMeFOSAA - ISTD



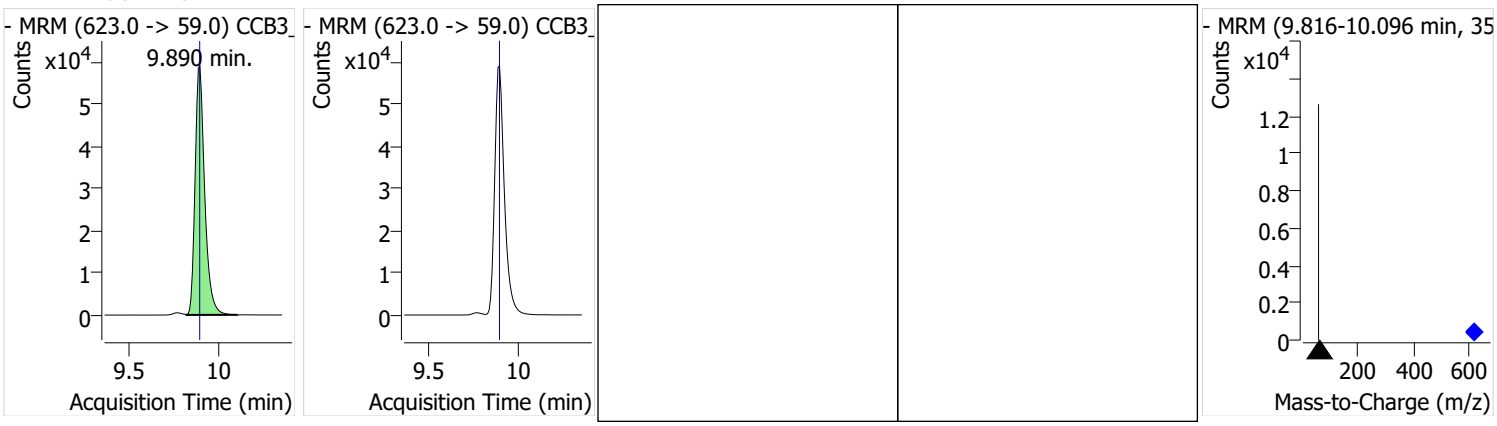
D5-NEtFOSA - ISTD



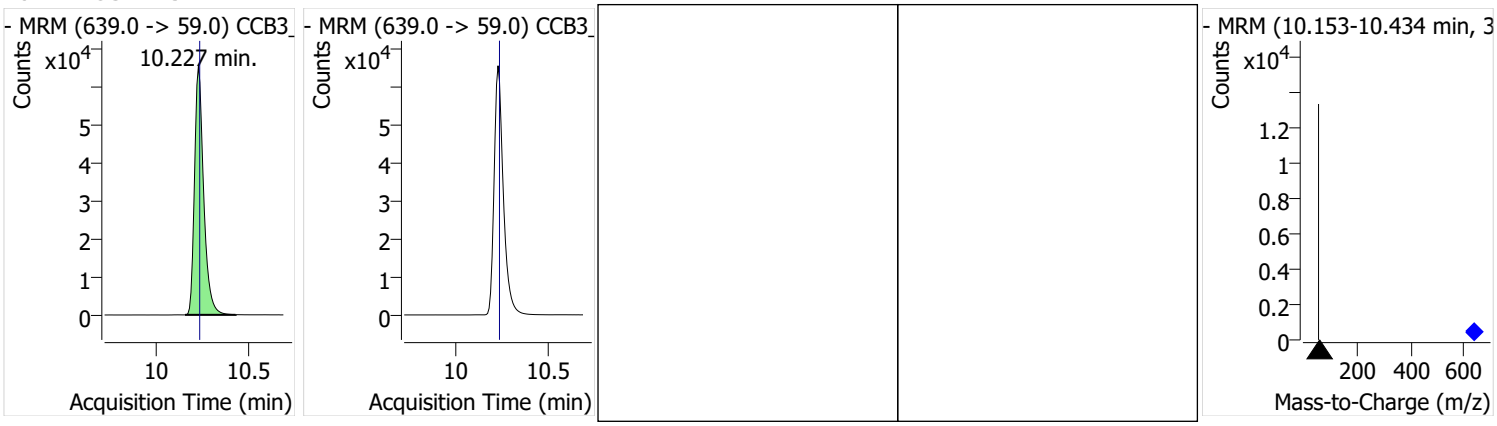
D5-NEtFOSAA - ISTD



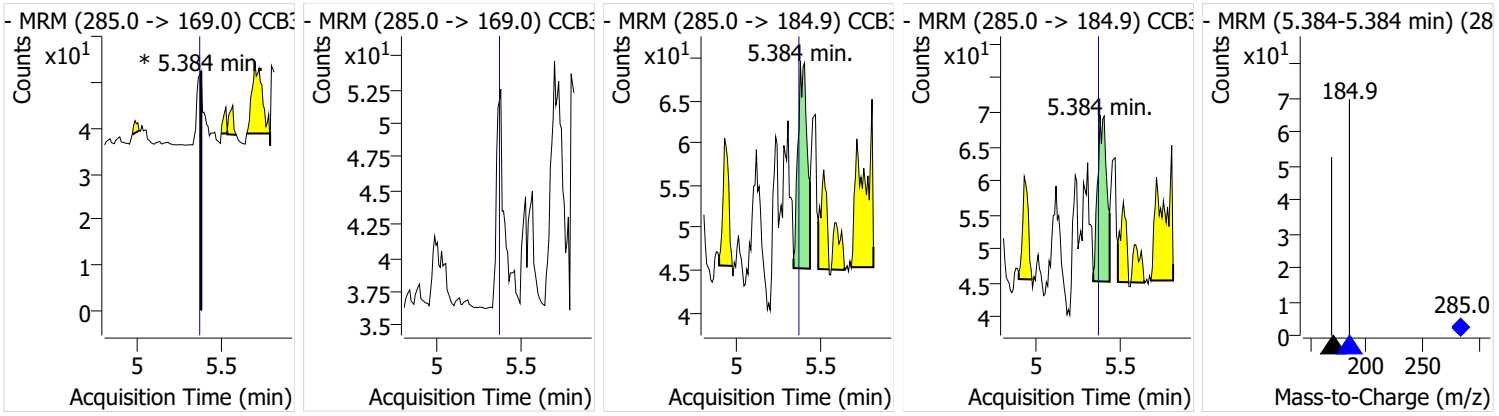
D7-NMeFOSE - ISTD



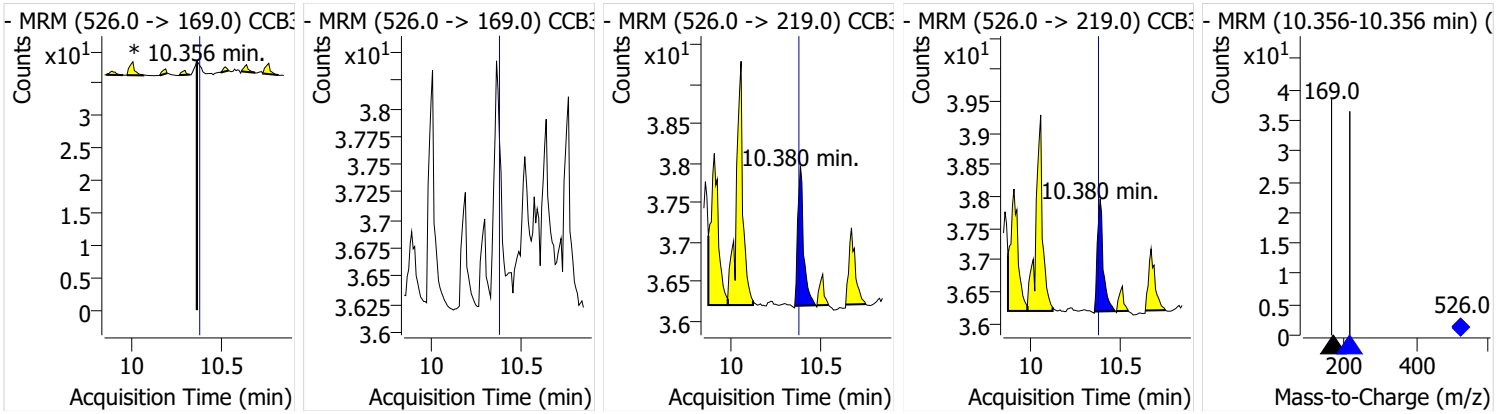
D9-NEtFOSE - ISTD



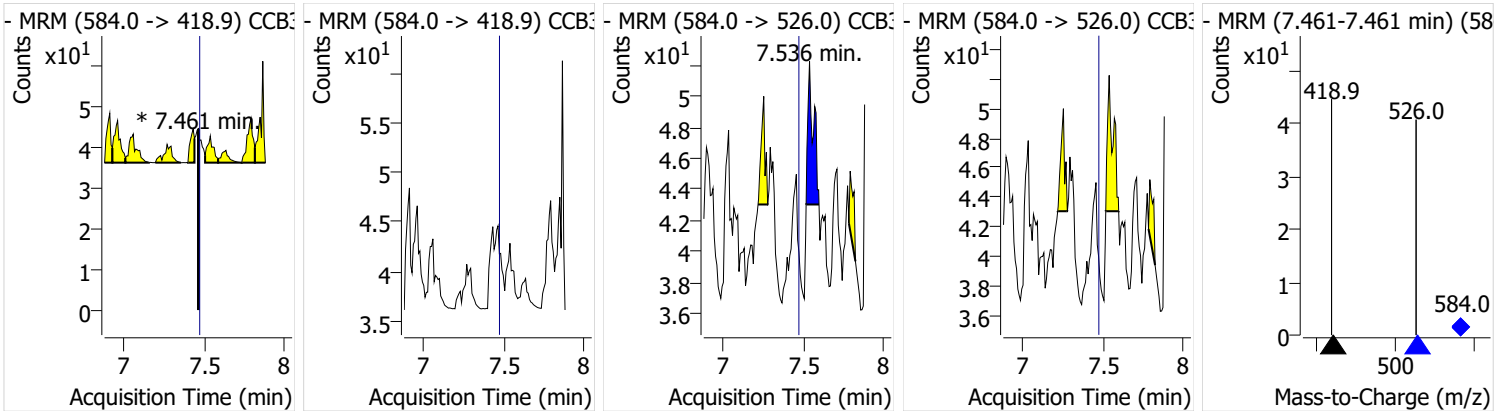
HFPO-DA



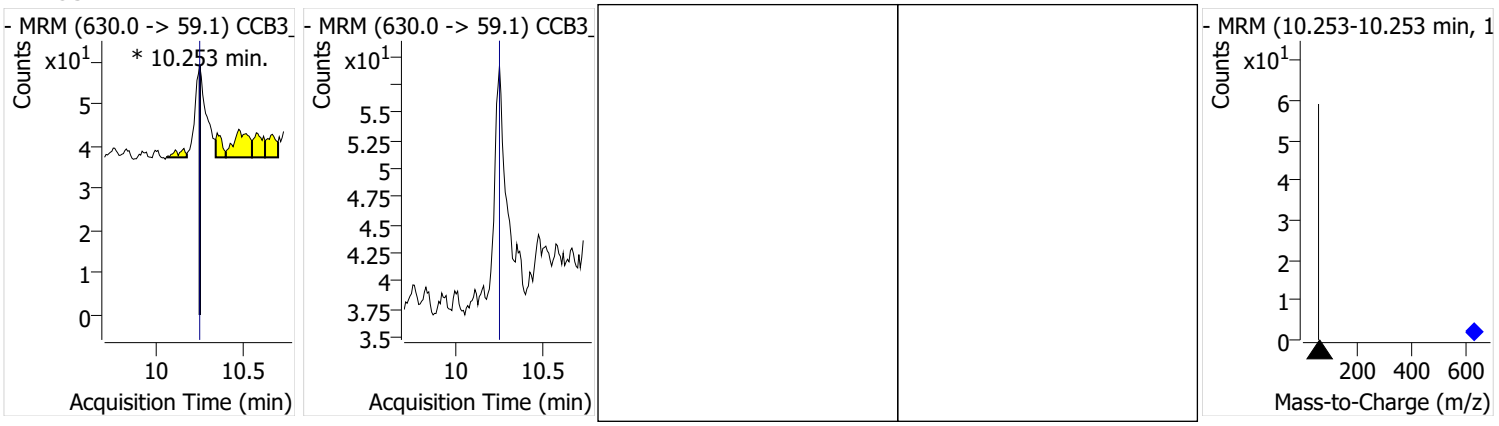
NEtFOSA



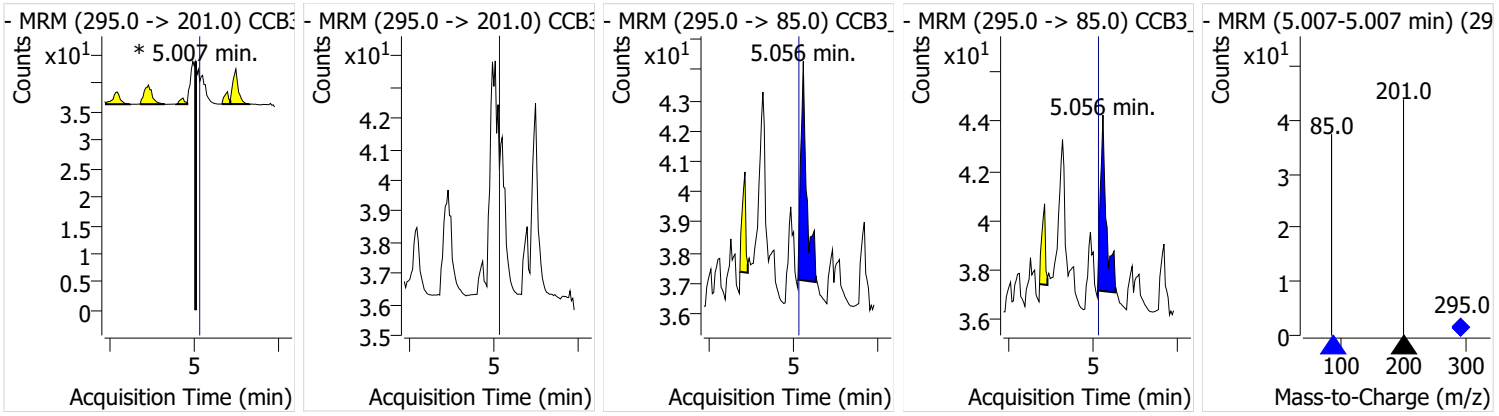
NEtFOSAA



NEtFOSE



NFDHA



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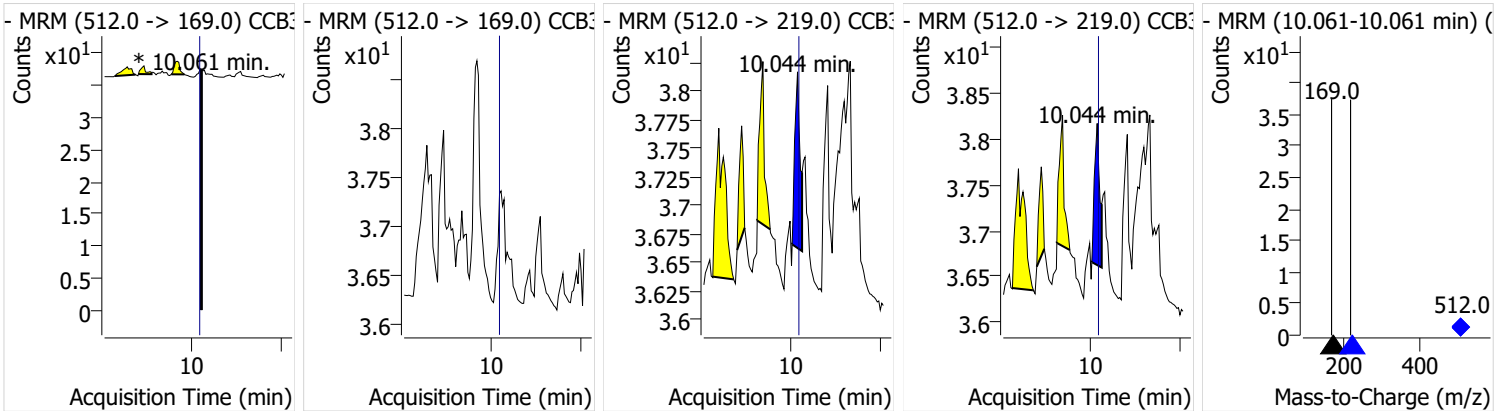

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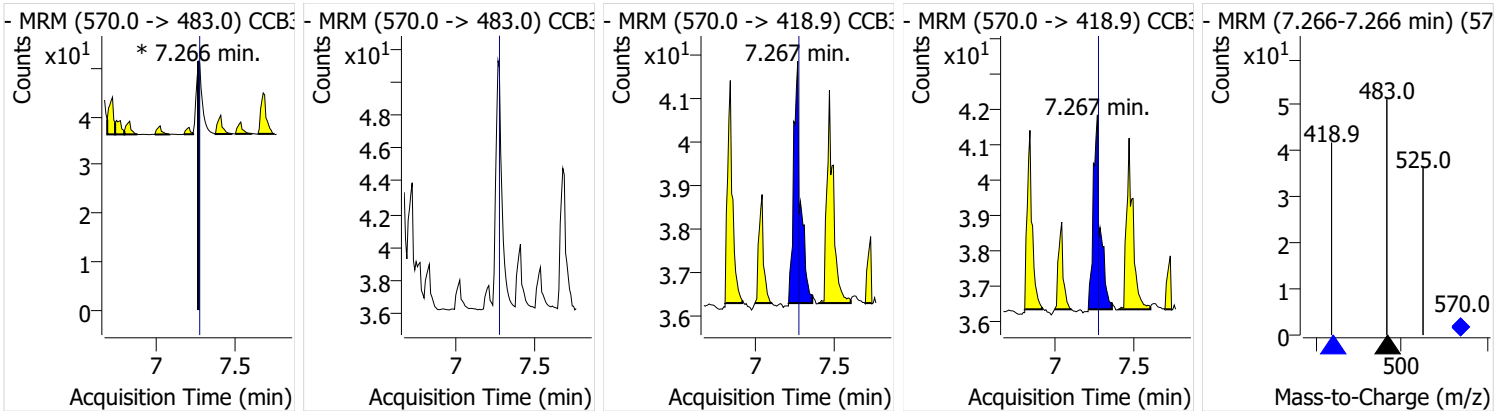

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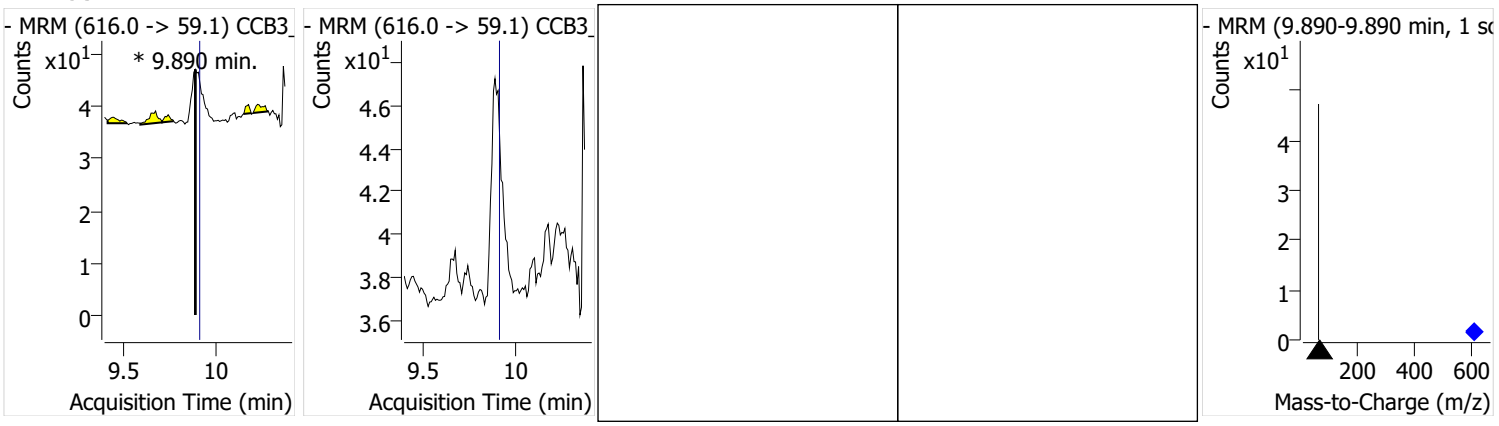

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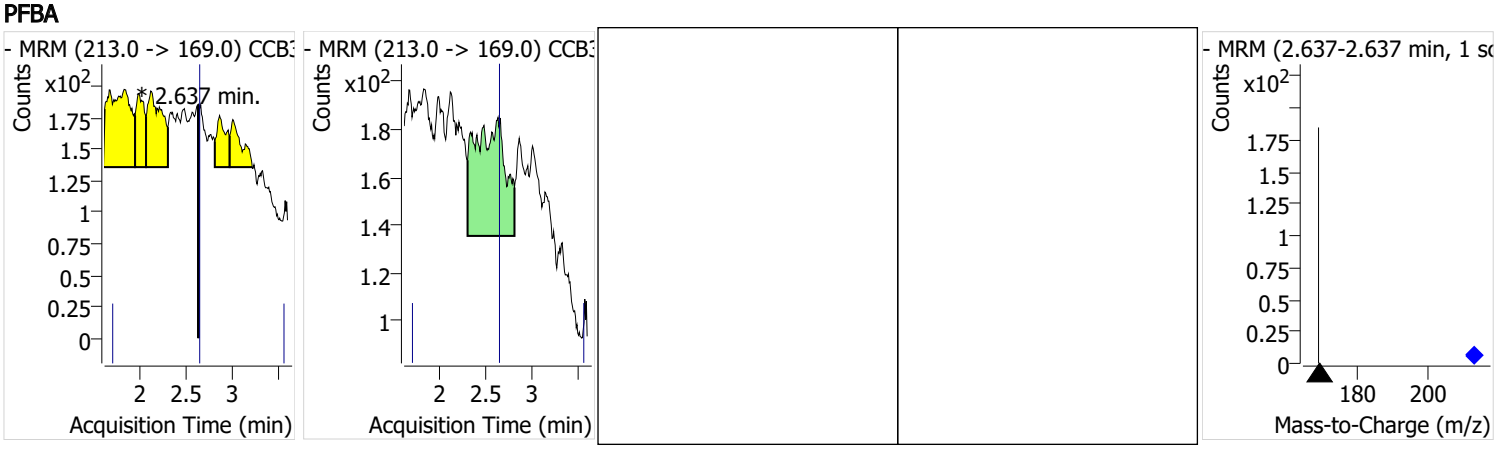

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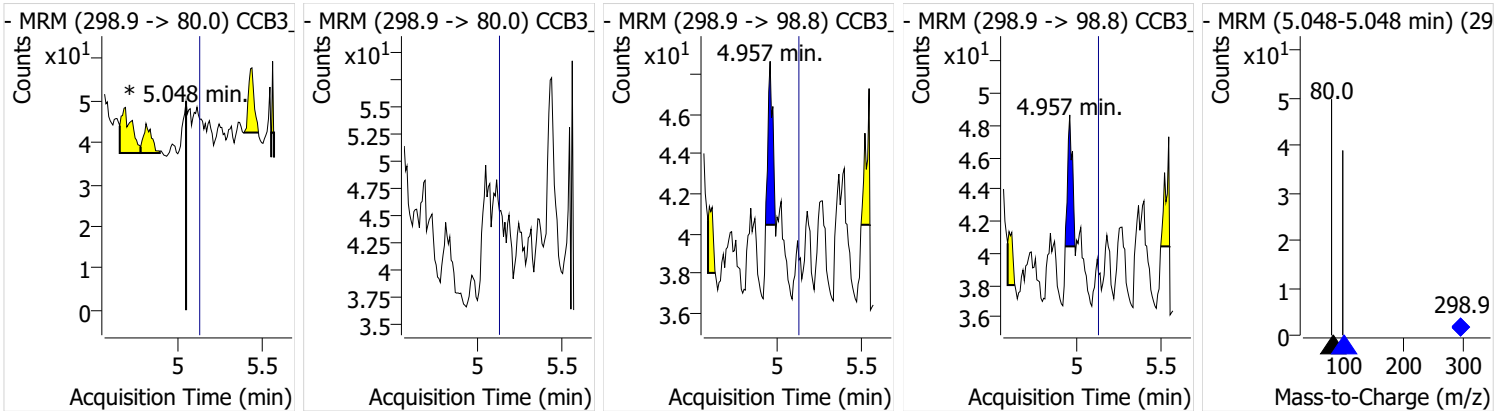

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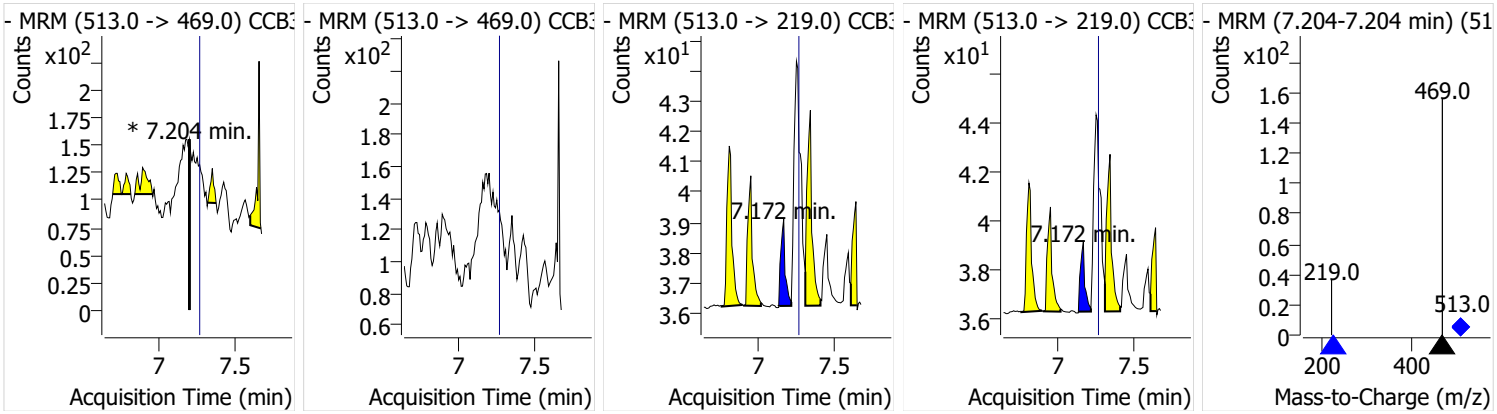

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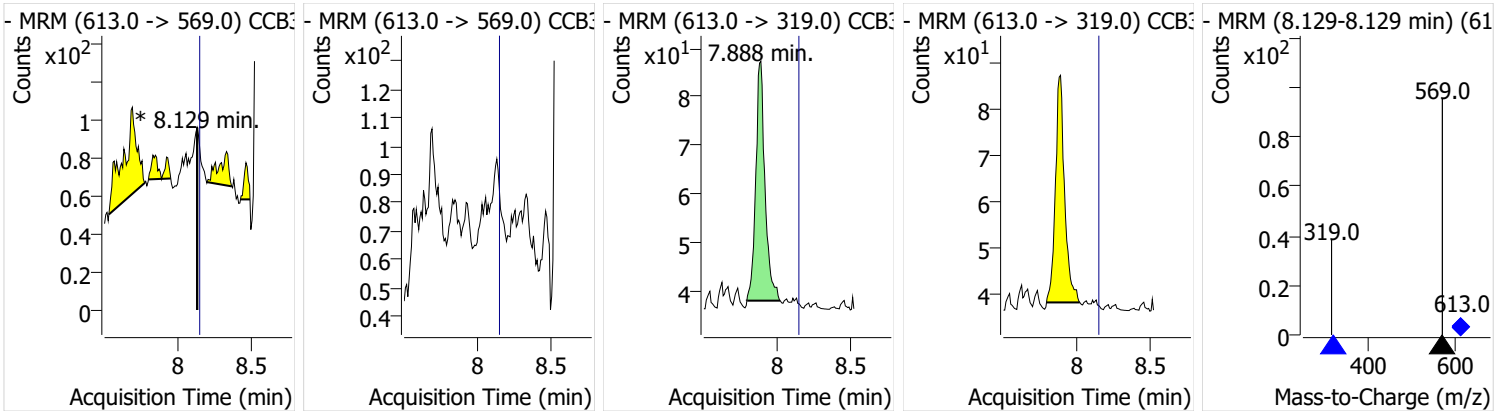

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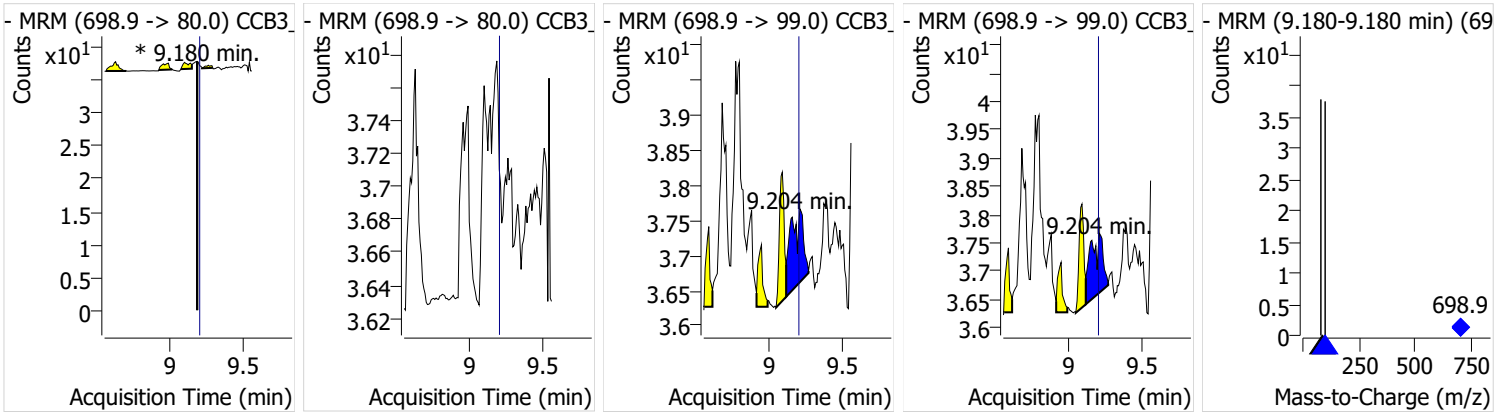

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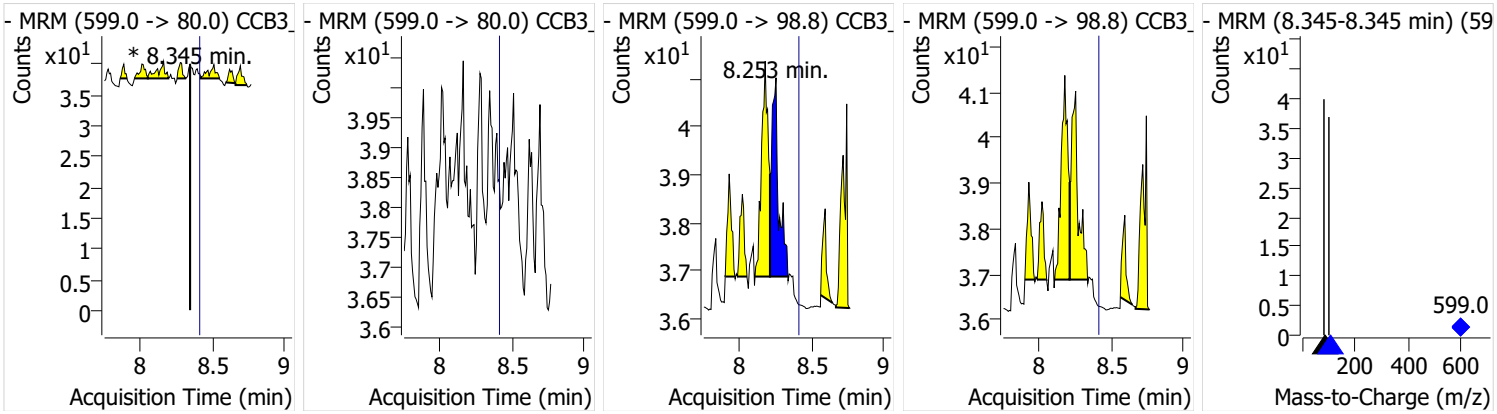

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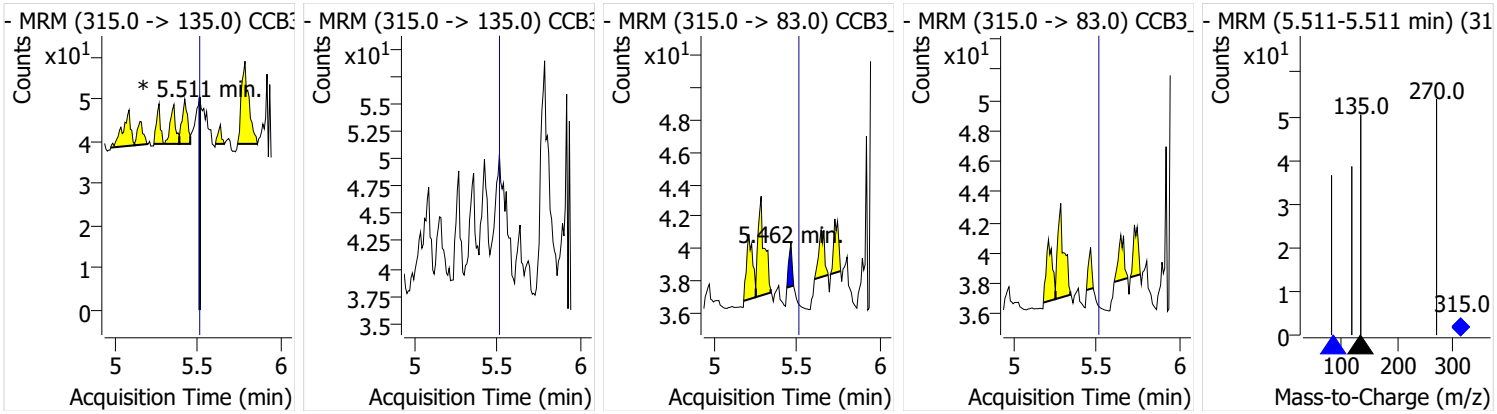

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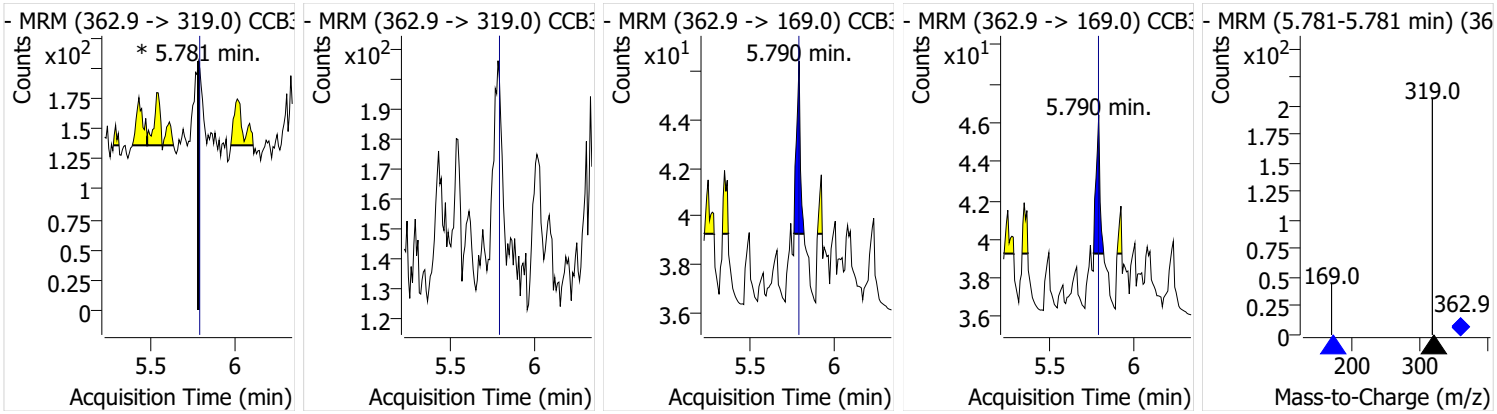

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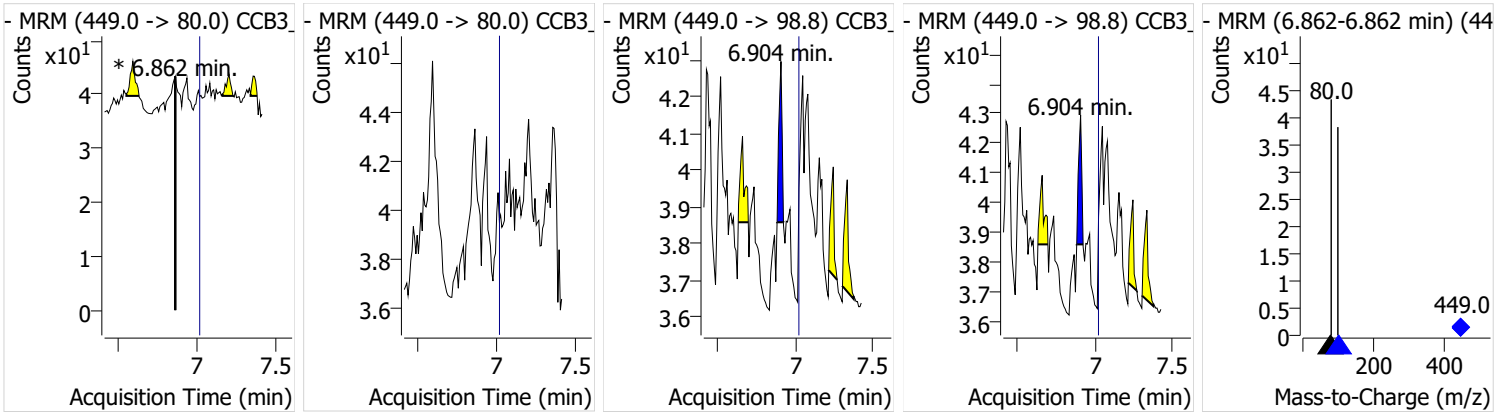

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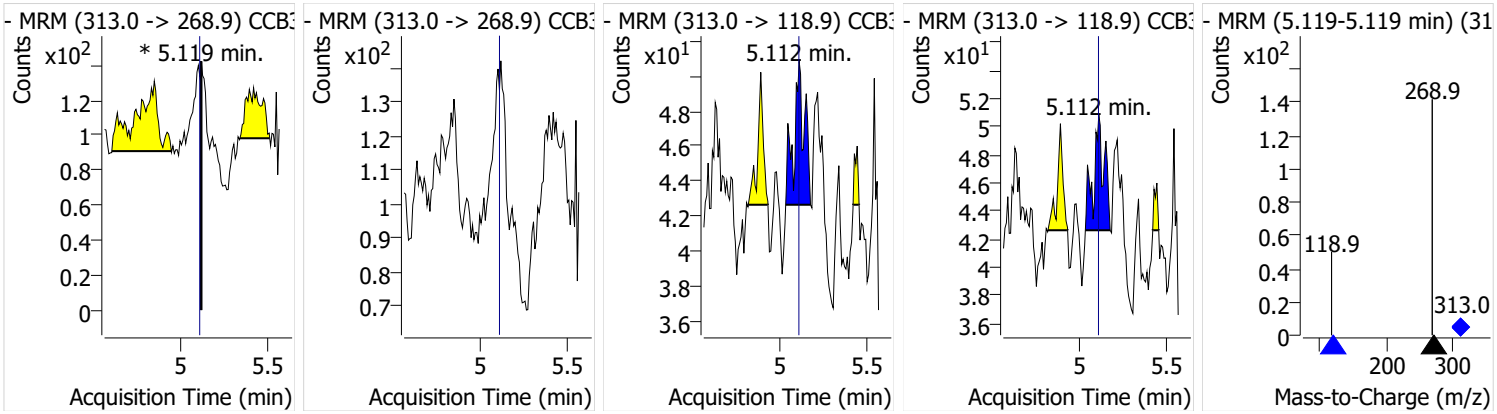

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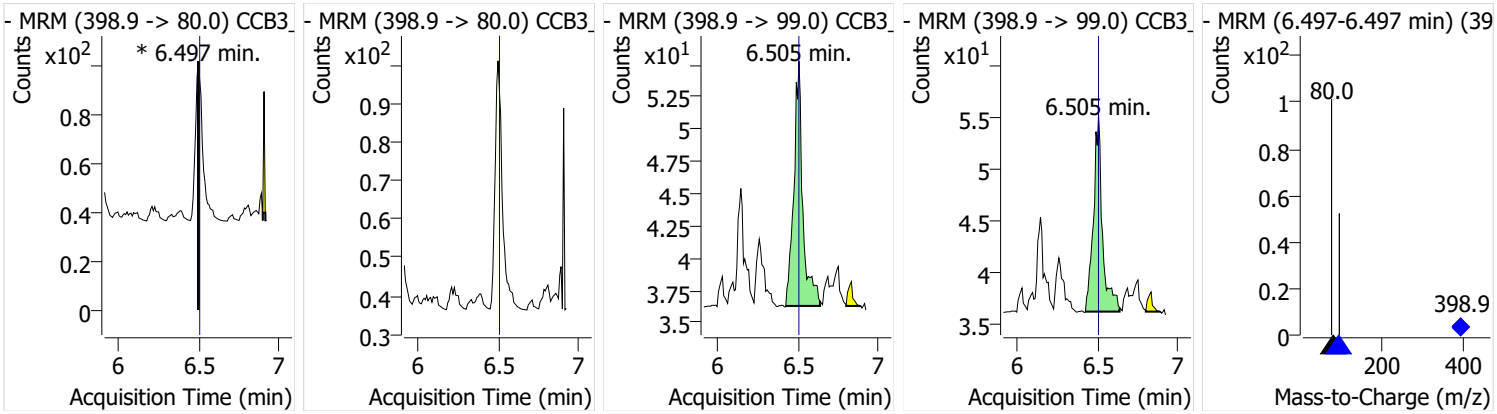

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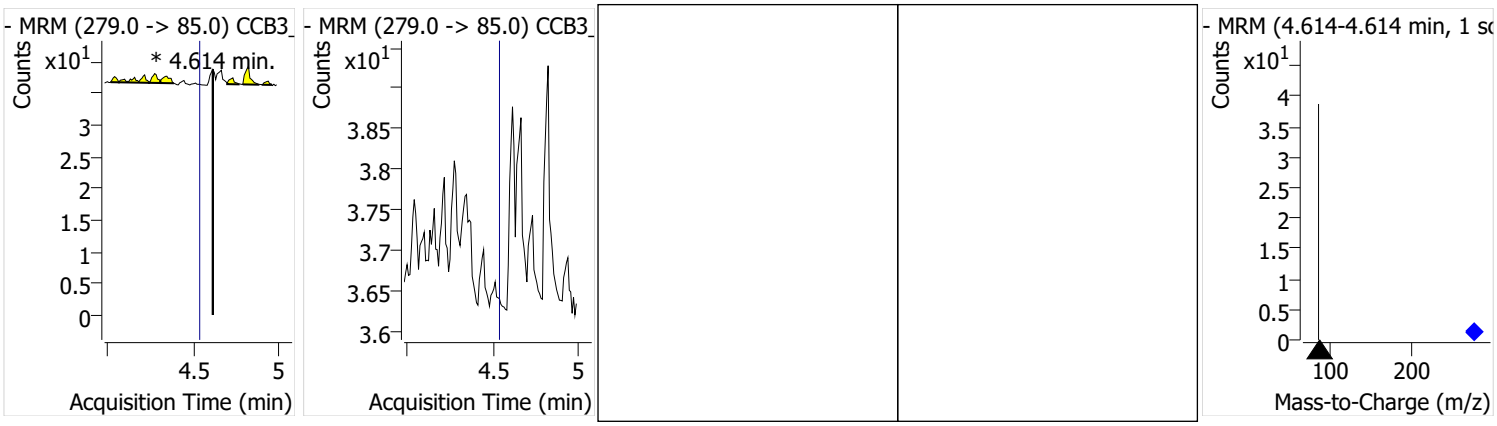

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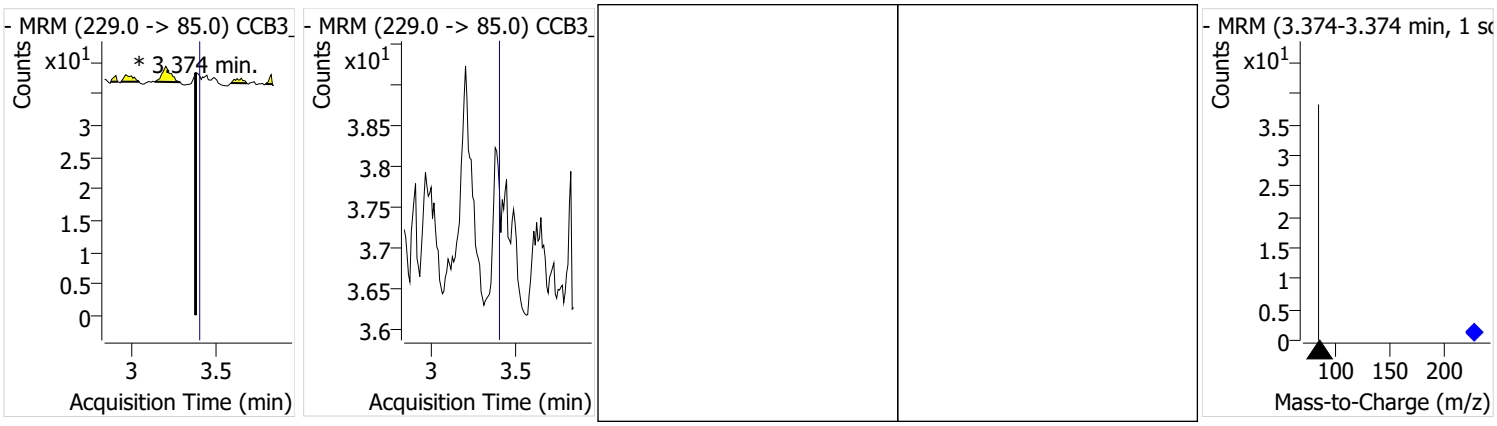

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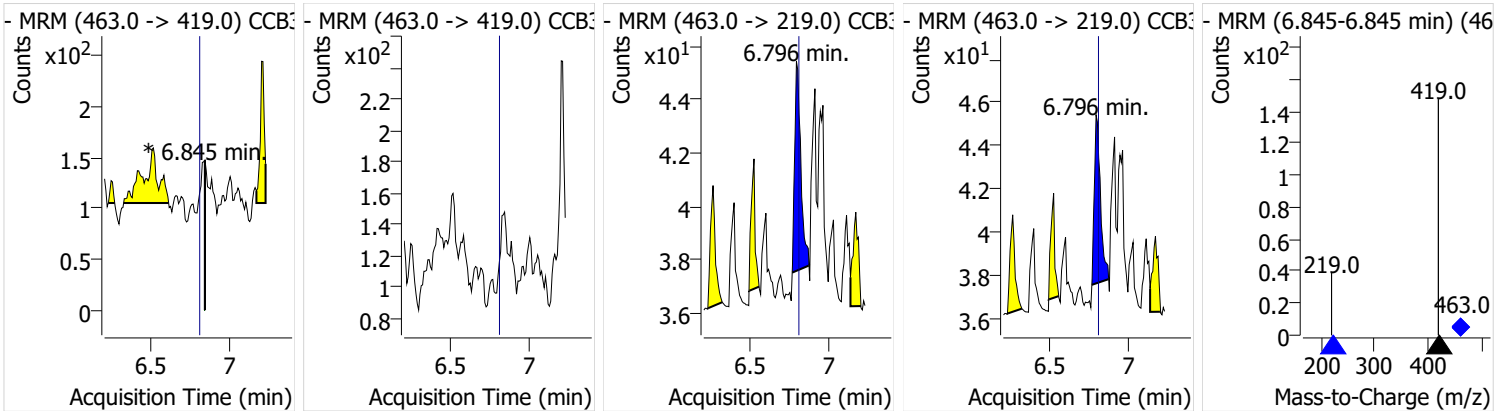

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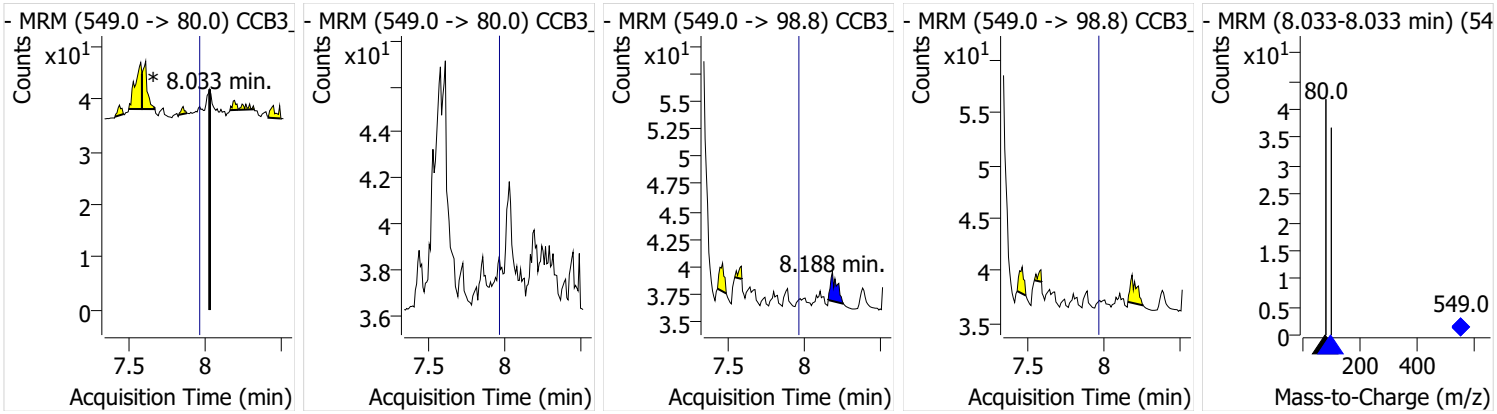

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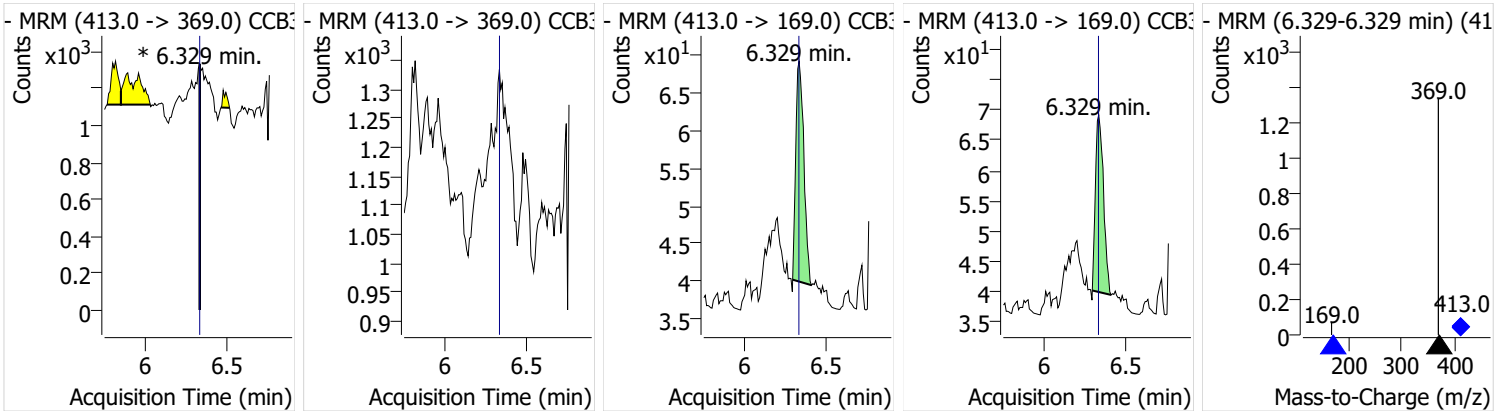
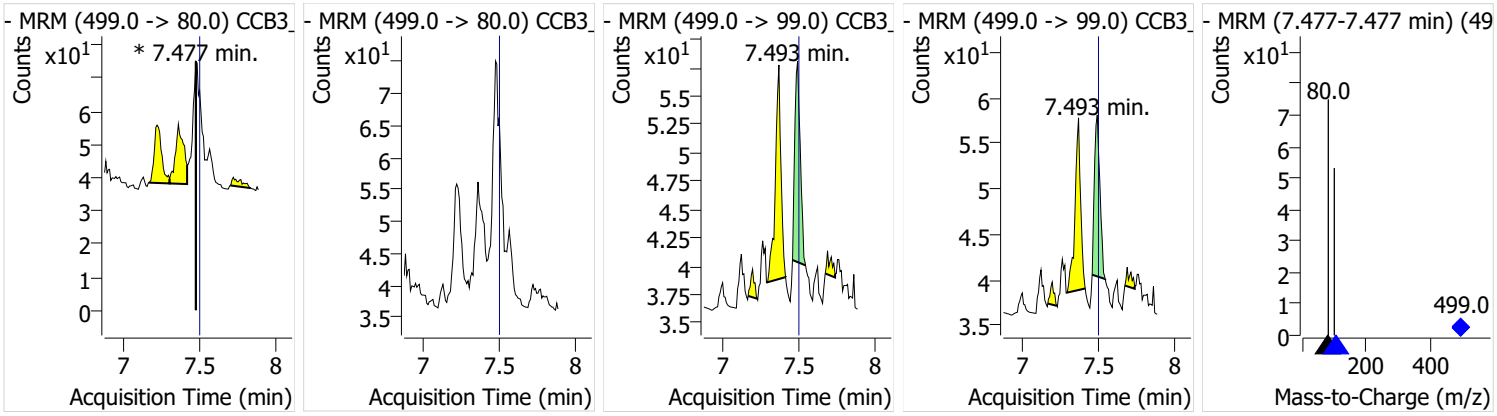


PFOS



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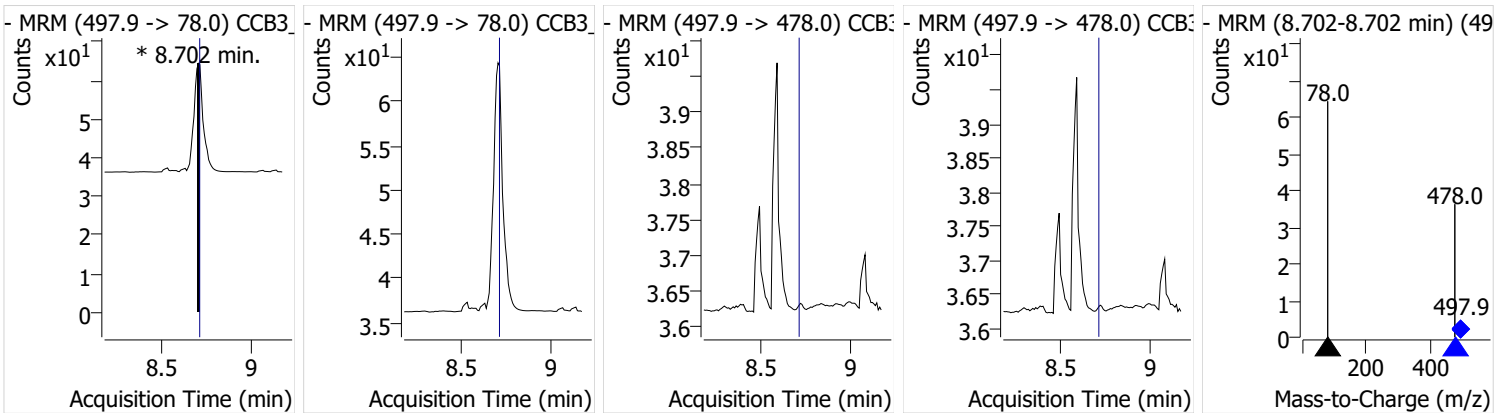

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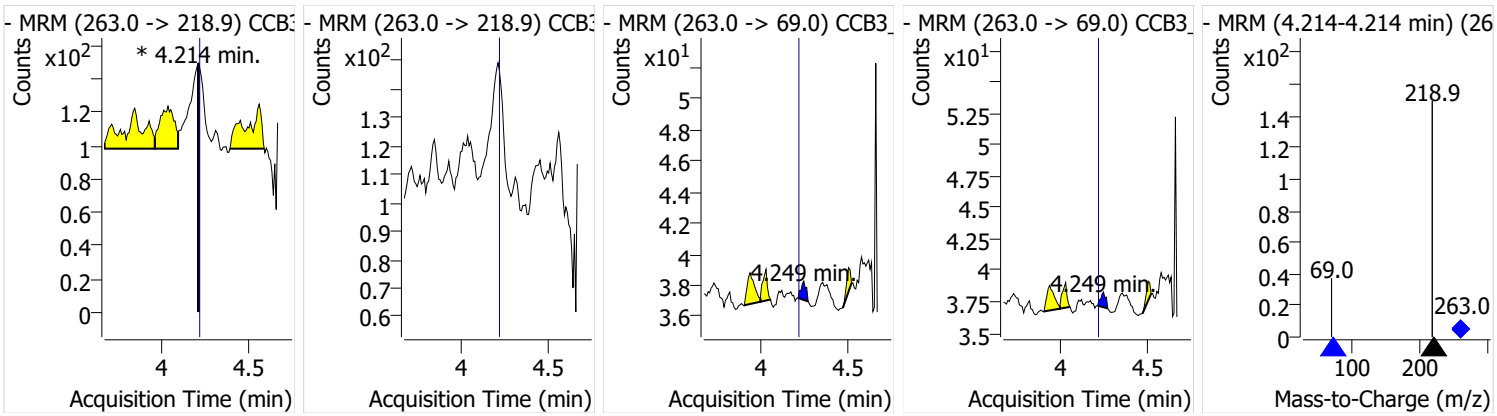

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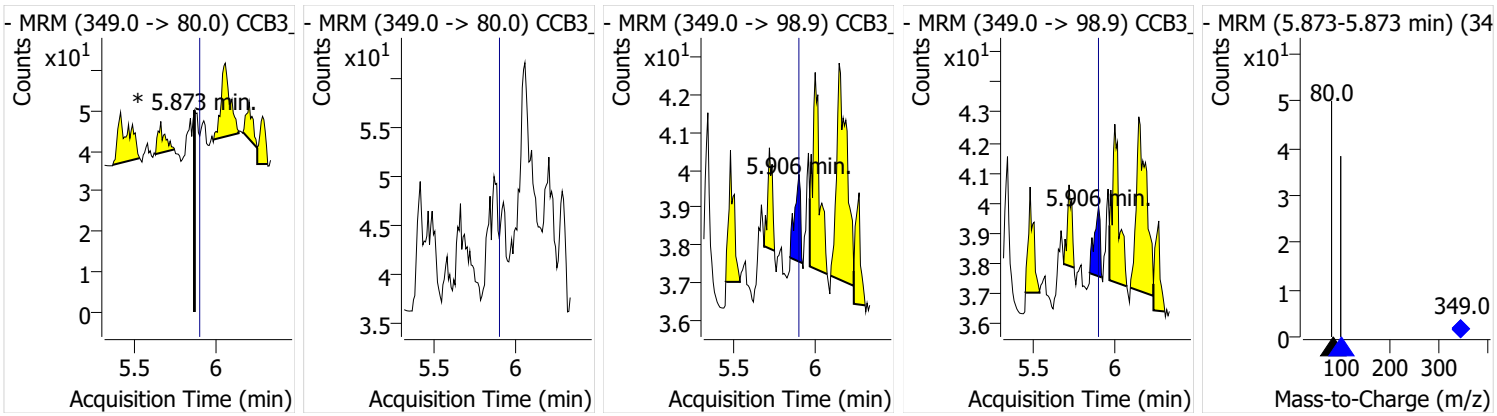

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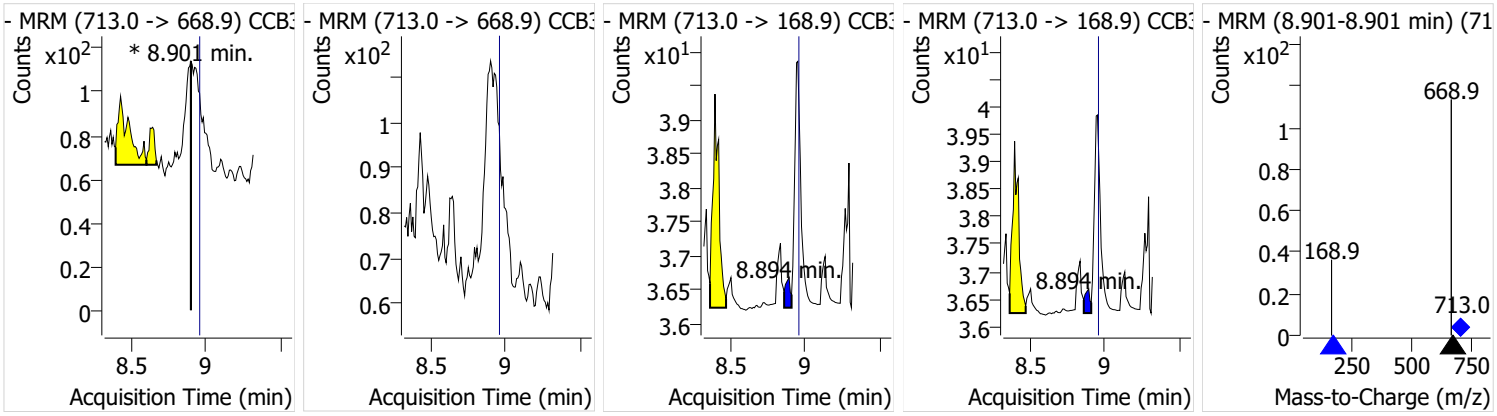
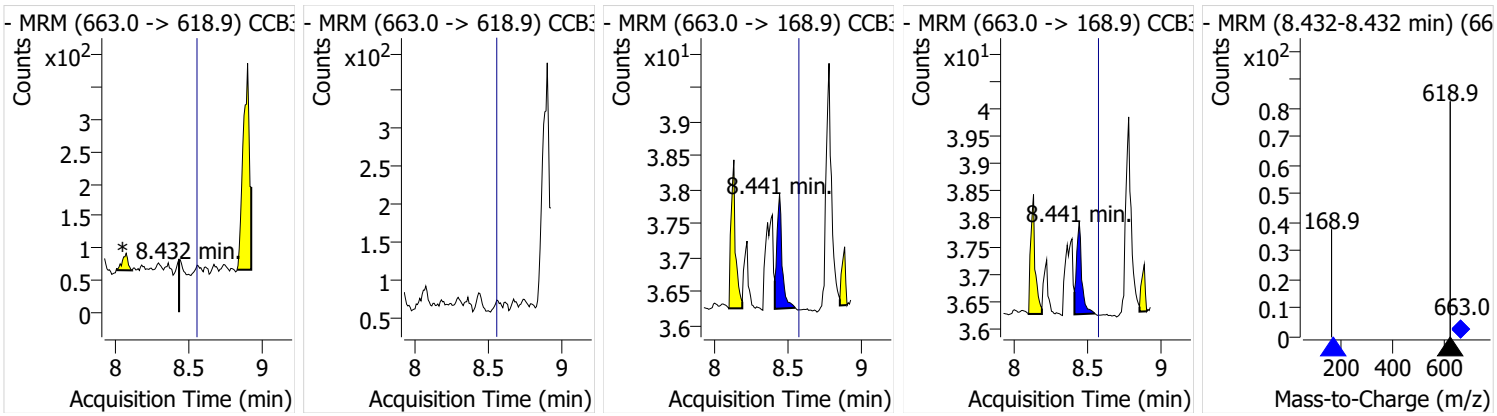
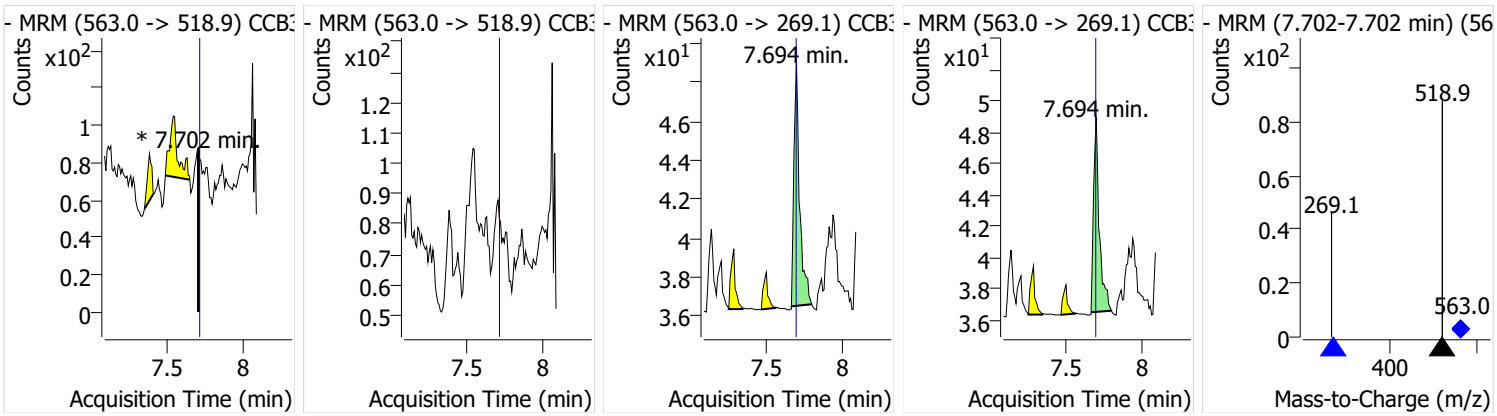


PFTrDA



PFUnA



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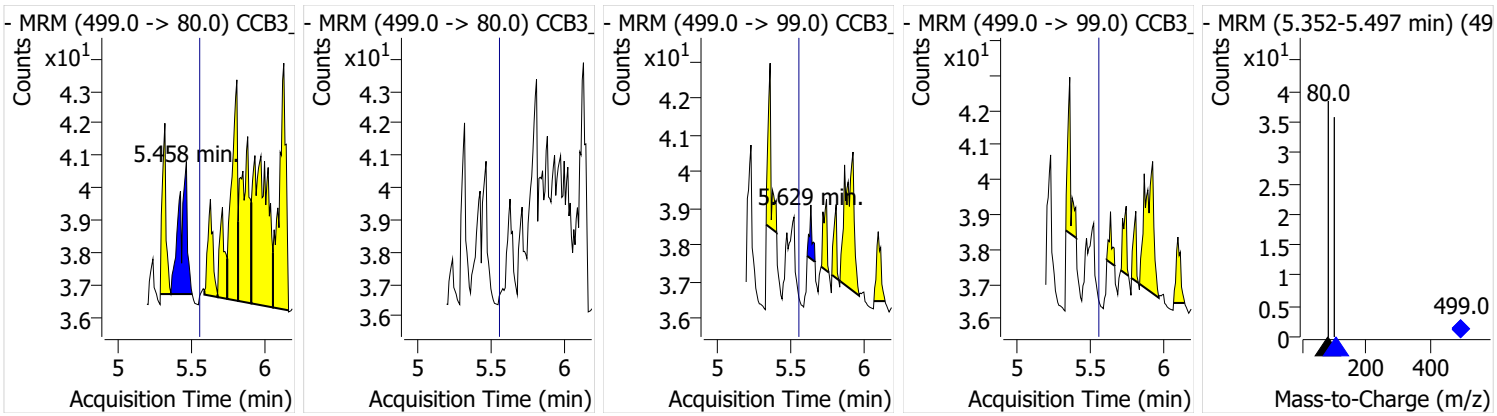

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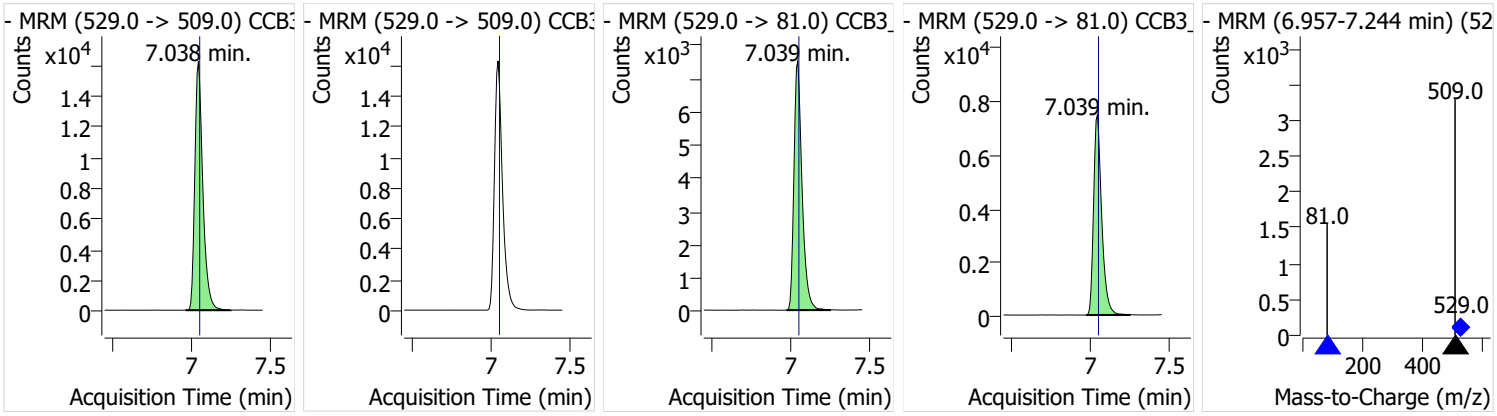

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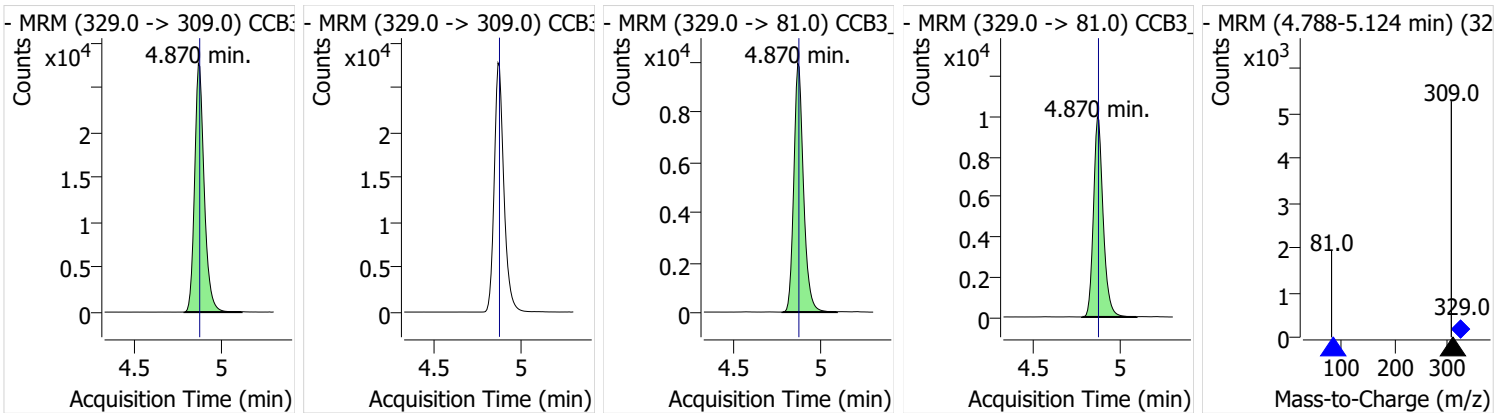

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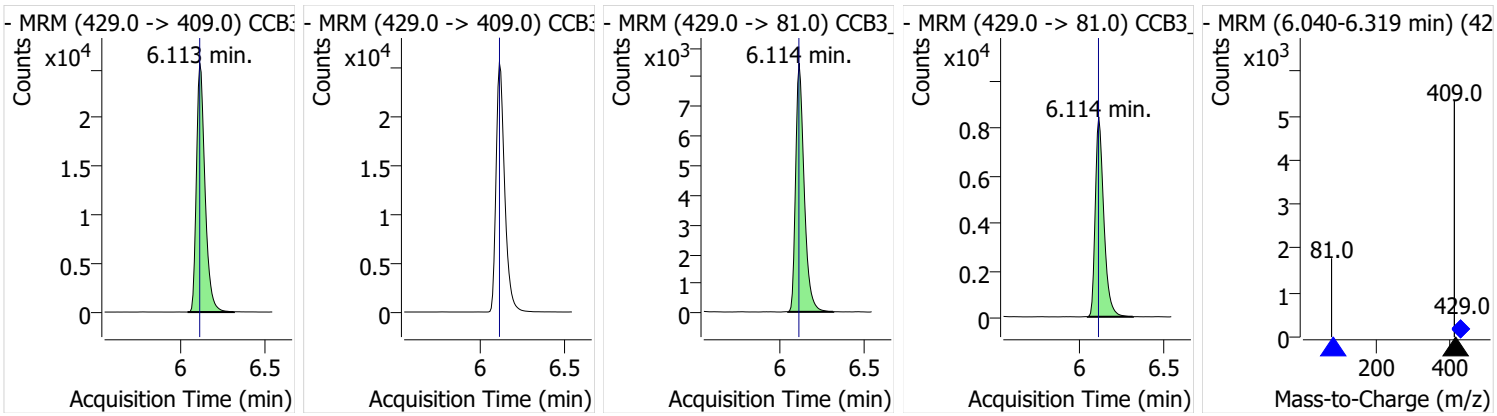

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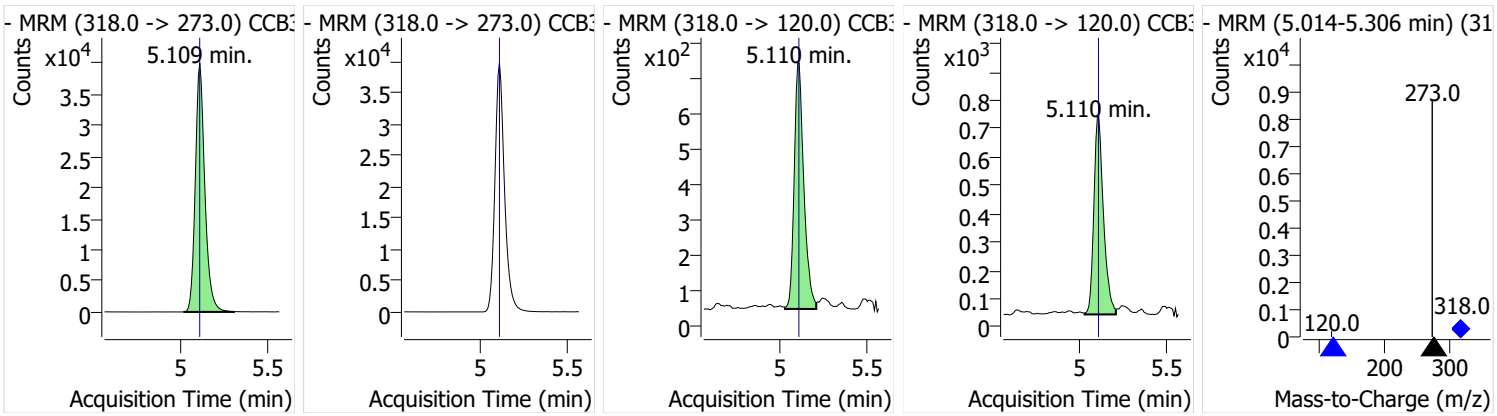

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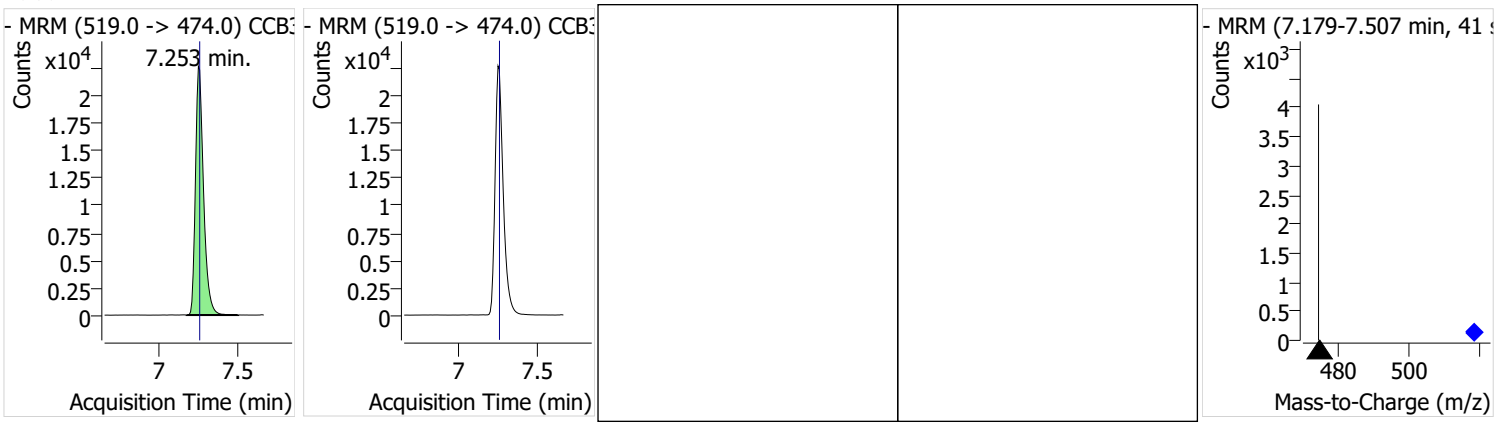

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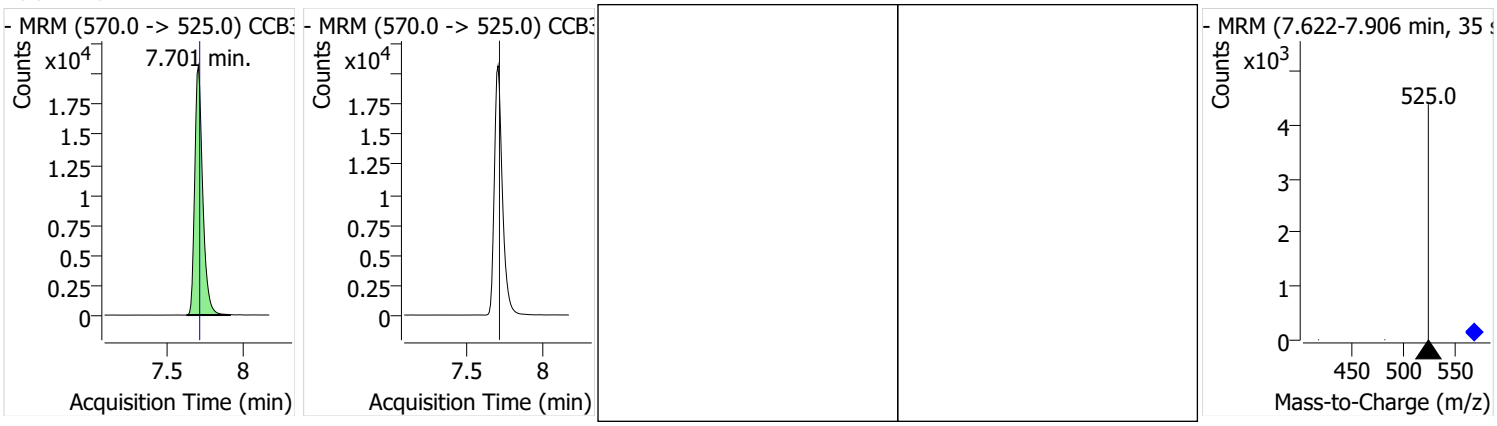

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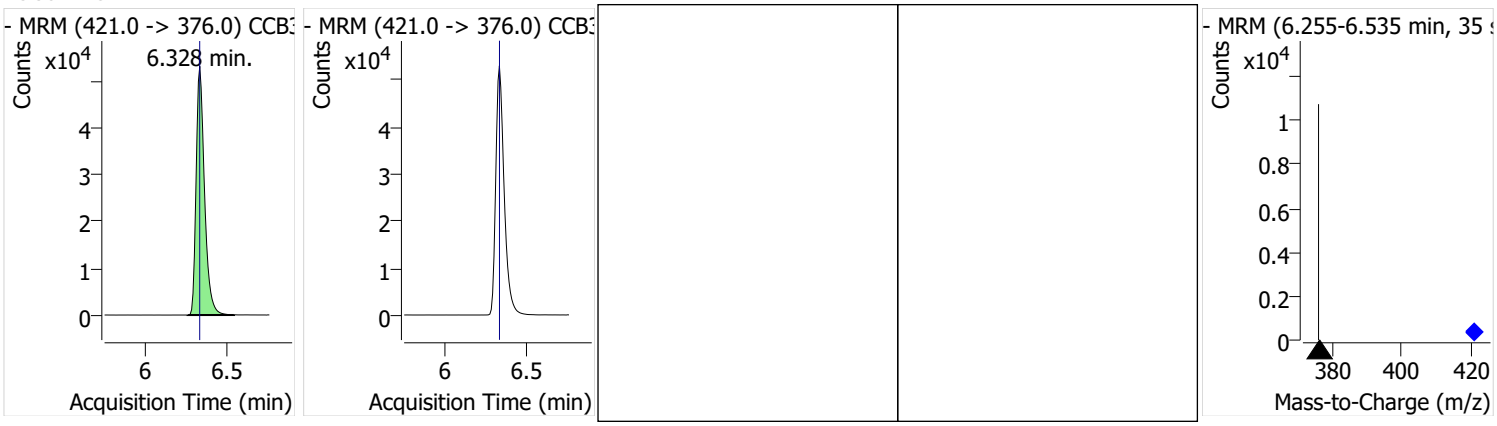

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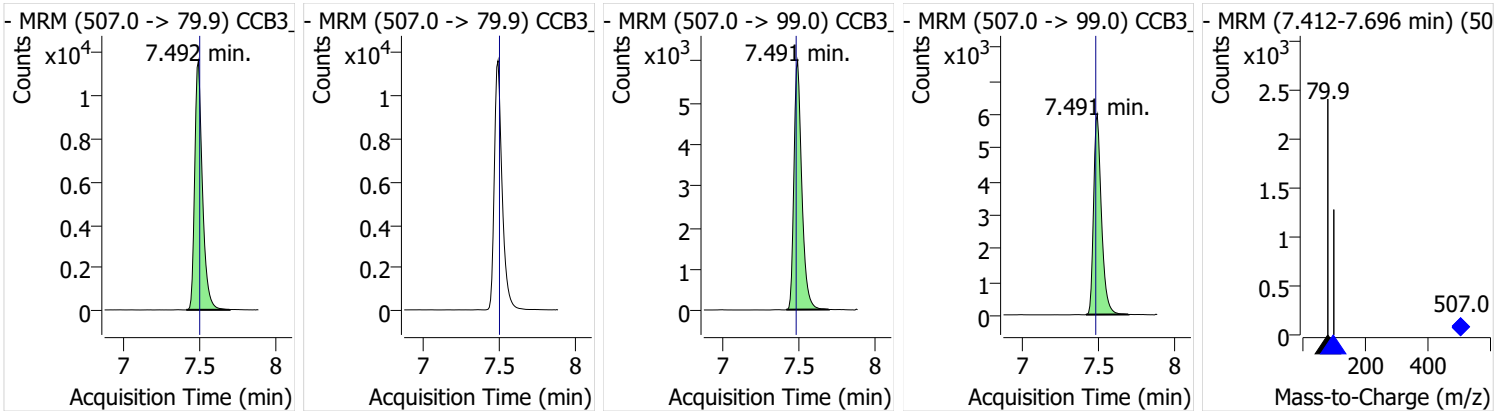

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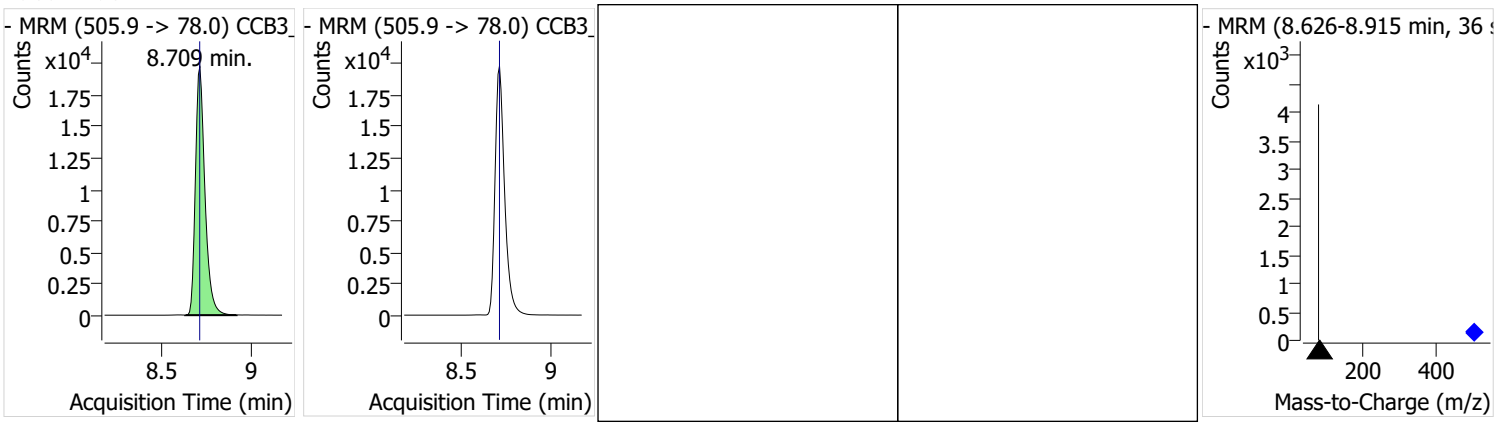

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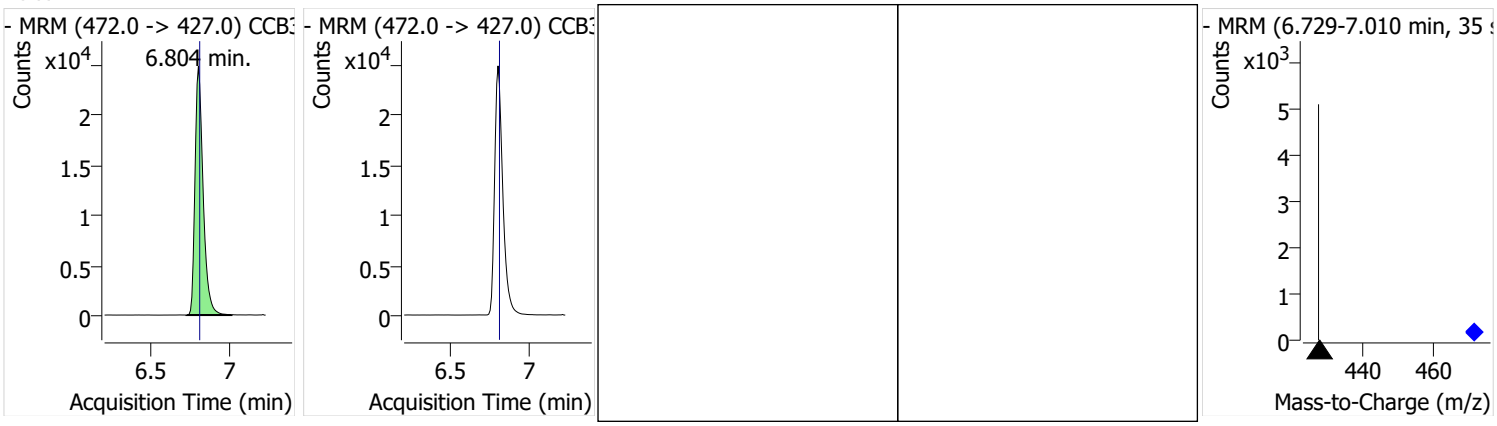

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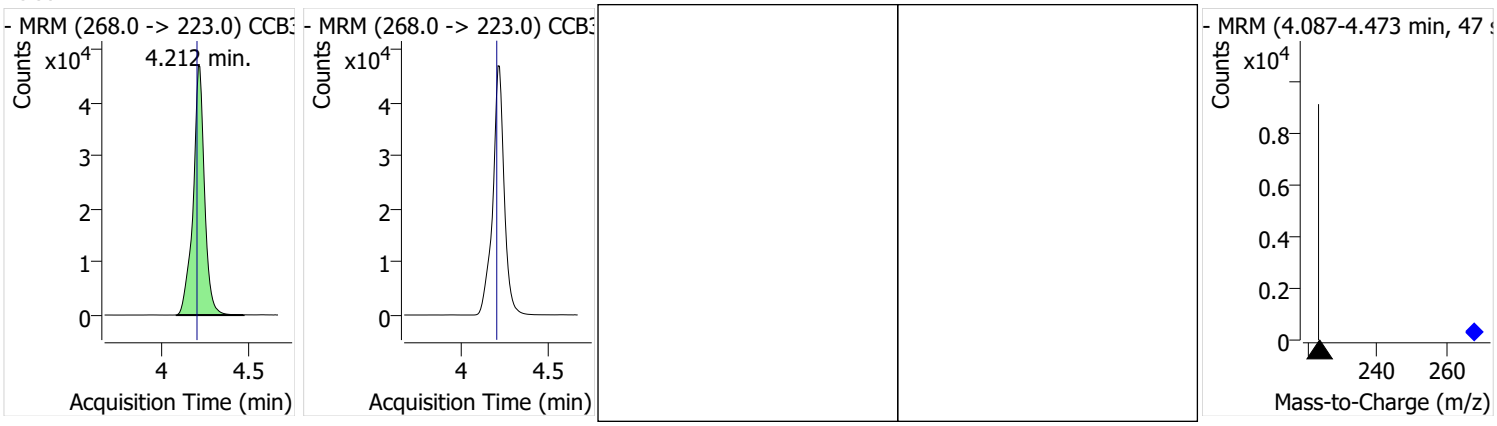

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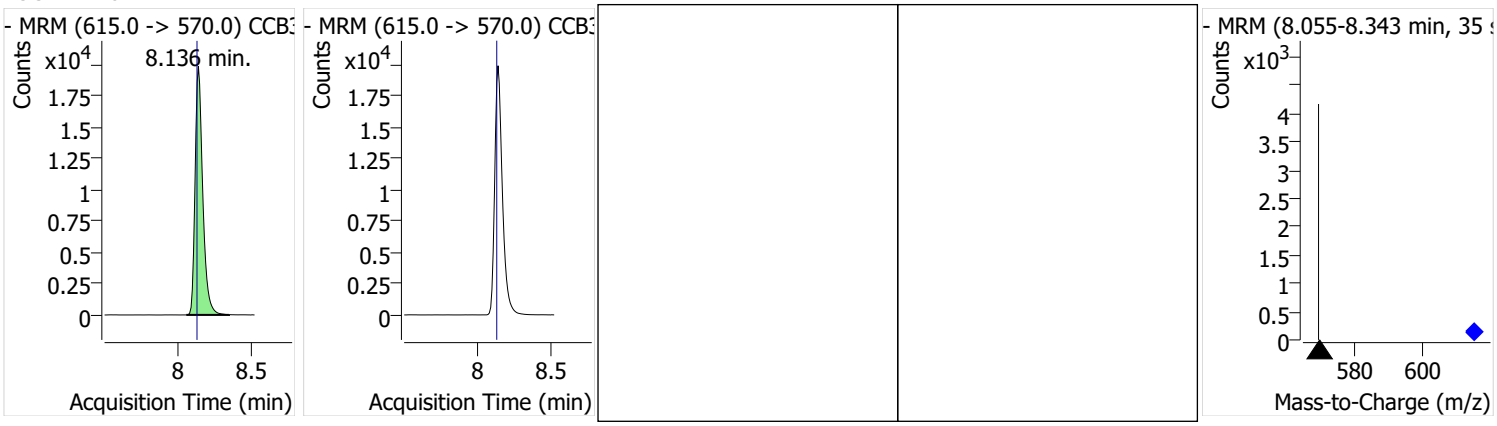

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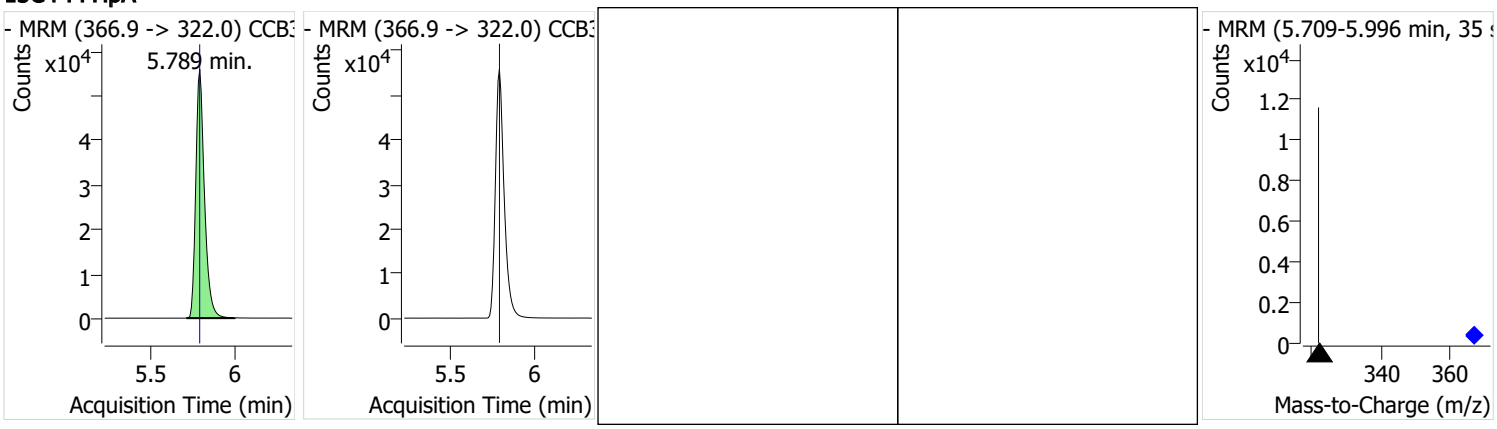

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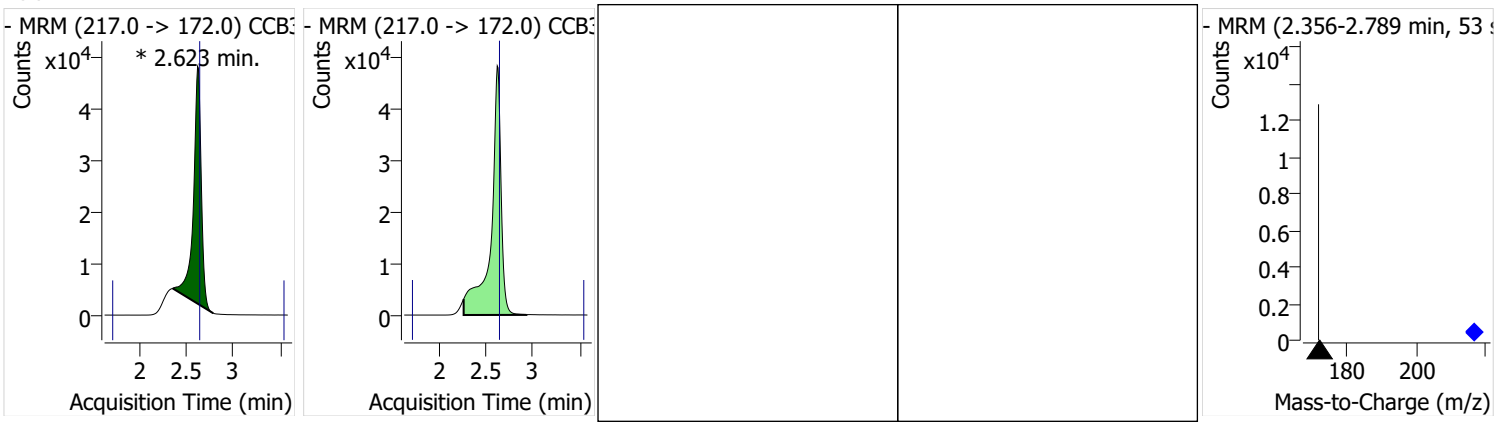

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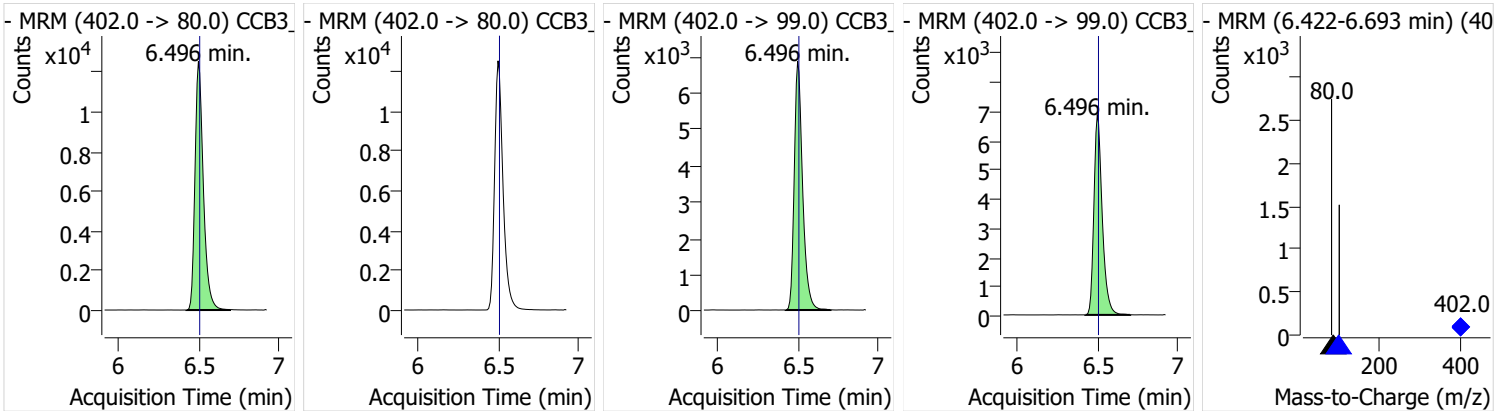

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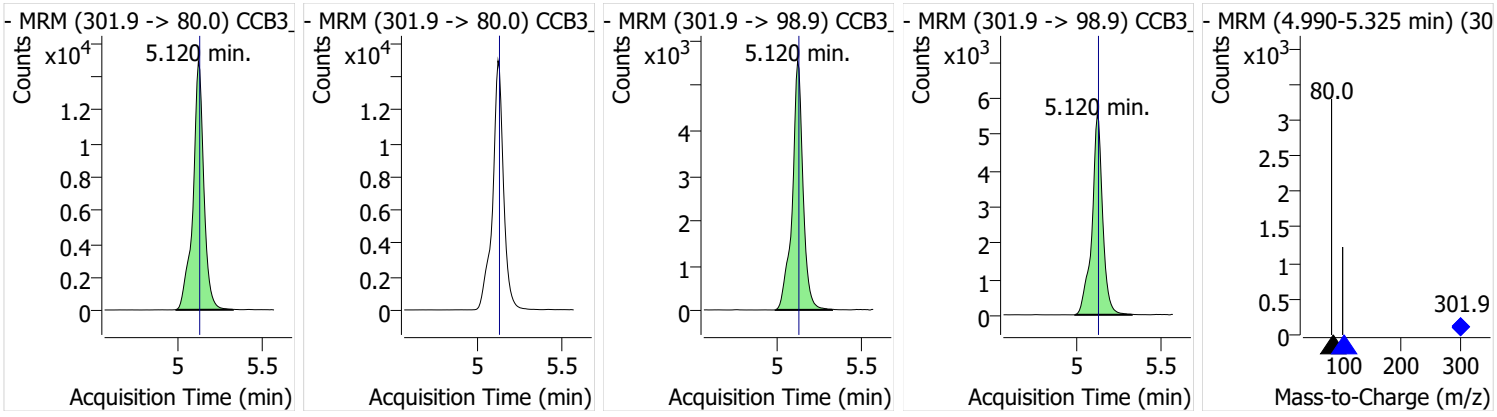

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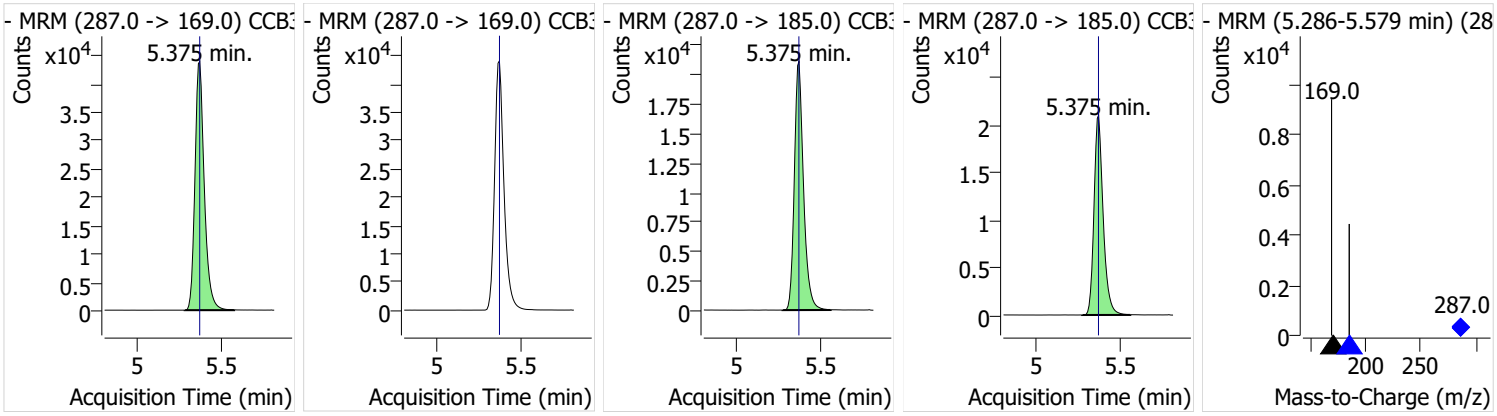

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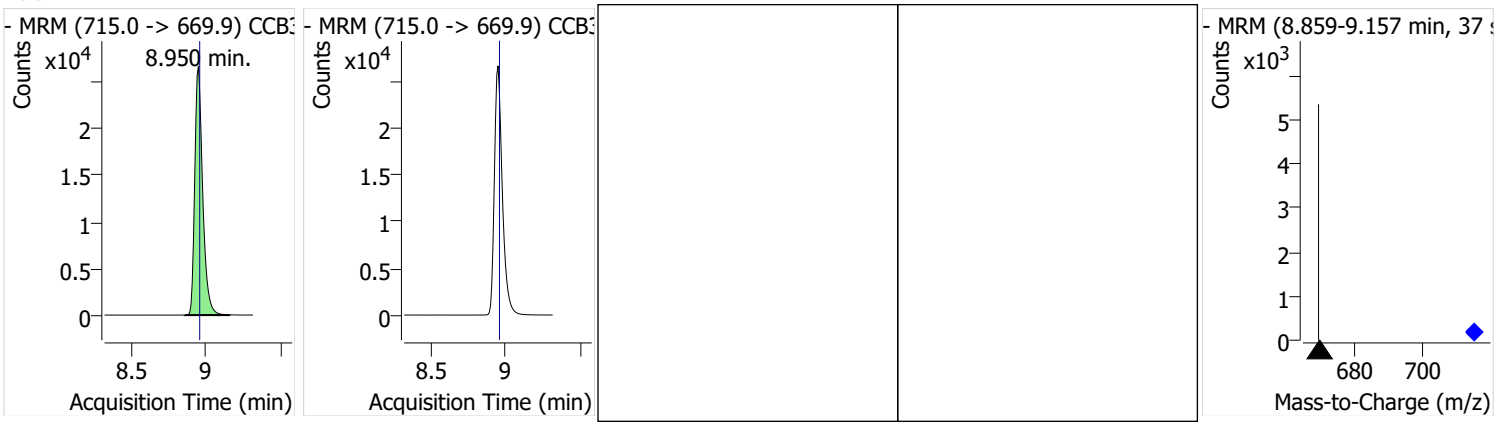

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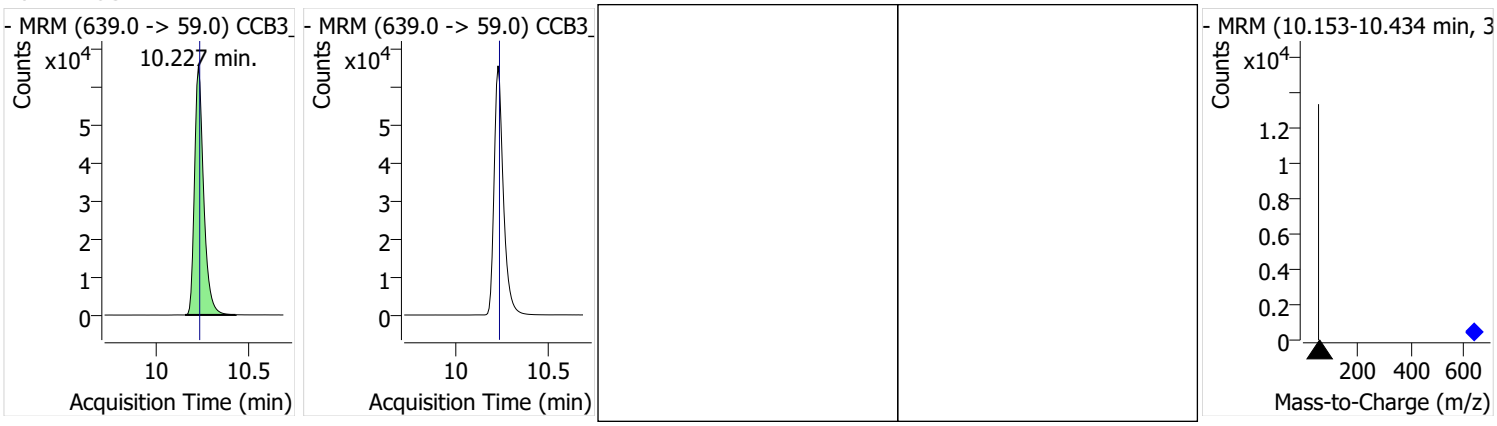
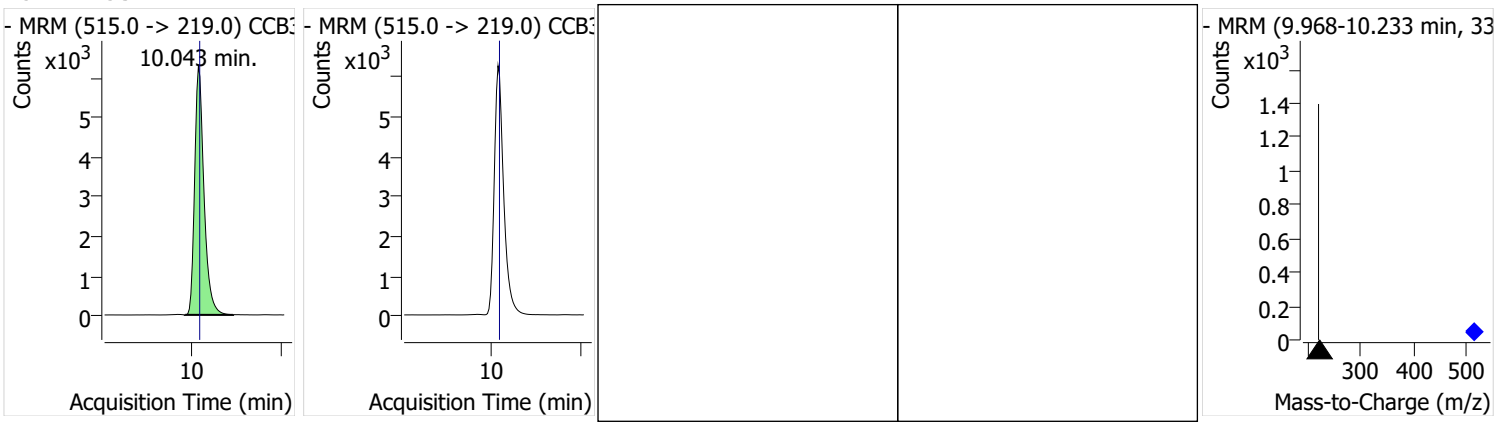


D3-NMeFOSA



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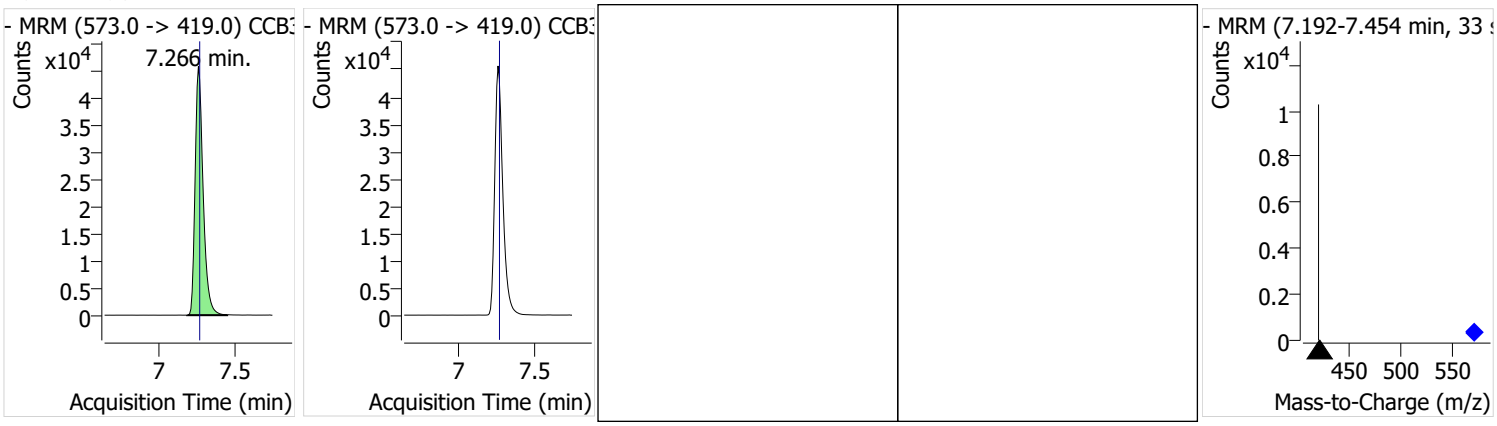

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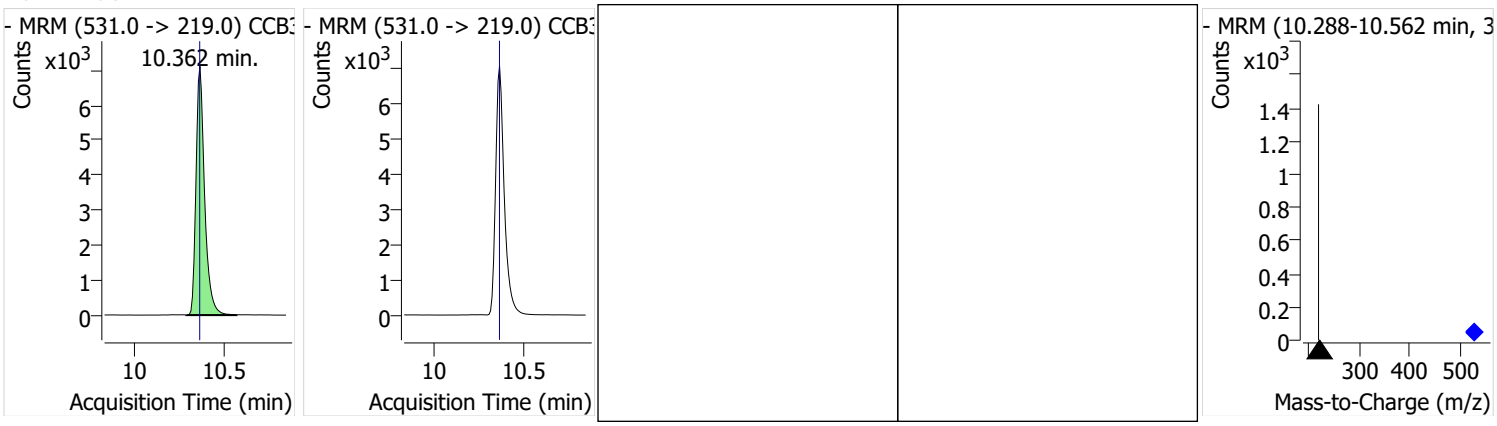

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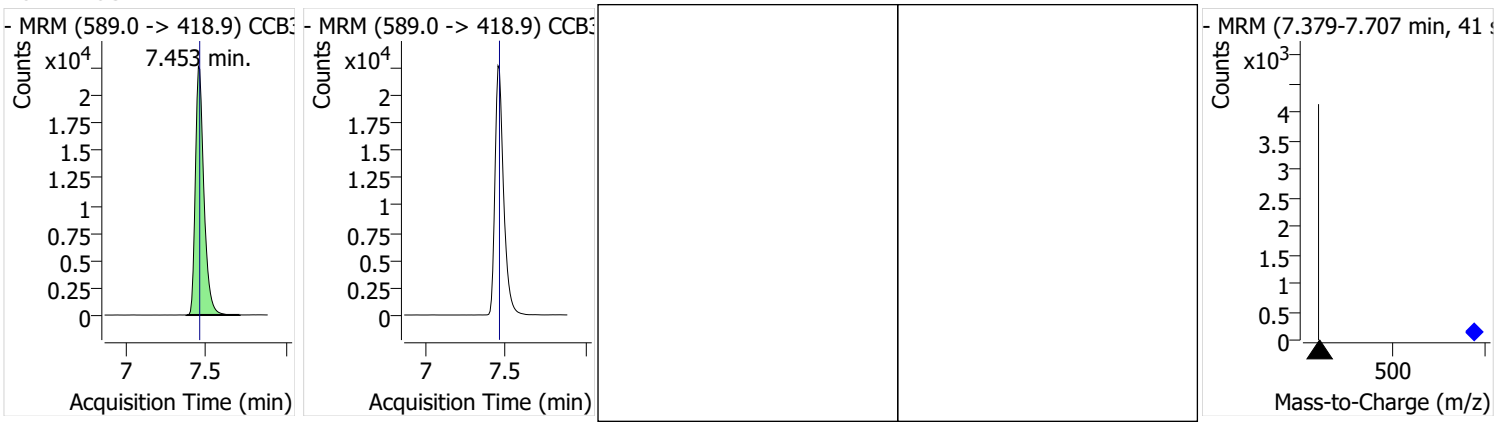

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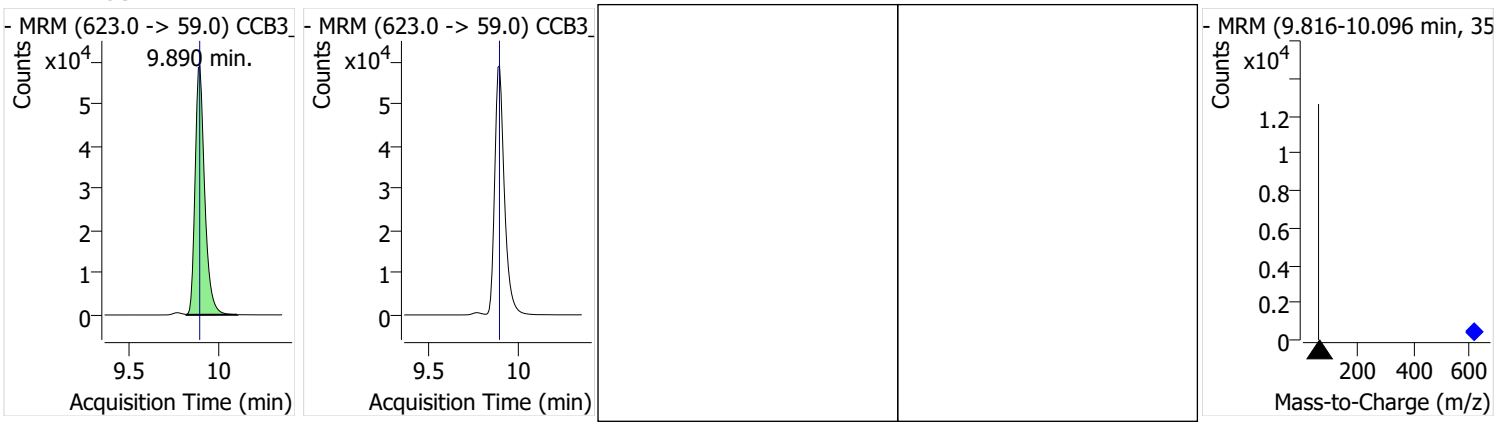


1 - FORM I
ANALYSIS DATA SHEET

Calibration Blank

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Water	Laboratory ID:	S105135-CCB4	File ID:	CCB4_1633_052824.d
Sampled:		Prepared:	05/28/24 00:00	Analyzed:	05/29/24 02:02
Solids:		Preparation:	B375132	Dilution:	
Batch:	S105135	Sequence:	S105135	Calibration:	2400593
Instrument:	QQQ5				
Column:	1				

CAS NO.	COMPOUND	CONC. (ng/mL)	MDL	RL	Q
375-22-4	Perfluorobutanoic acid (PFBA)	0.0	0.22	0.40	
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.0	0.043	0.20	
307-24-4	Perfluorohexanoic acid (PFHxA)	0.0	0.024	0.10	
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.0	0.027	0.10	
335-67-1	Perfluorooctanoic acid (PFOA)	0.0	0.026	0.10	
375-95-1	Perfluorononanoic acid (PFNA)	0.0	0.019	0.10	
335-76-2	Perfluorodecanoic acid (PFDA)	0.0	0.021	0.10	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.0	0.020	0.10	
307-55-1	Perfluorododecanoic acid (PFDoA)	0.0	0.020	0.10	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.0	0.030	0.10	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.0	0.026	0.10	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.0	0.021	0.10	
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.0	0.026	0.10	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.0	0.028	0.10	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.0	0.033	0.10	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.0	0.038	0.10	
68259-12-1	Perfluorononanesulfonic acid (PFNS)	0.0	0.025	0.10	
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.0	0.029	0.10	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	0.0	0.029	0.10	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (	0.0	0.075	0.40	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid ((	0.0	0.30	0.40	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (	0.0	0.11	0.40	
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.0	0.023	0.10	
31506-32-8	N-methyl perfluoroocatnesulfonamide (NMeF	0.0	0.033	0.10	
4151-50-2	N-ethyl perfluorooctanesulfonamide (NEtFOS	0.0	0.034	0.10	
2355-31-9	N-MeFOSAA (NMeFOSAA)	0.0	0.036	0.10	
2991-50-6	N-EtFOSAA (NEtFOSAA)	0.0	0.040	0.10	
24448-09-7	N-methylperfluorooctanesulfonamidoethanol(	0.0	0.27	1.0	
1691-99-2	N-ethylperfluorooctanesulfonamidoethanol (N	0.0	0.27	1.0	
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPC	0.0	0.10	0.40	

1 - FORM I
ANALYSIS DATA SHEET

Calibration Blank

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Water	Laboratory ID:	S105135-CCB4	File ID:	CCB4_1633_052824.d
Sampled:		Prepared:	05/28/24 00:00	Analyzed:	05/29/24 02:02
Solids:		Preparation:	B375132	Dilution:	
Batch:	S105135	Sequence:	S105135	Calibration:	2400593
Instrument:	QQQ5				
Column:	1				

CAS NO.	COMPOUND	CONC. (ng/mL)	MDL	RL	Q
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADON/	0.0	0.082	0.40	
756426-58-1	9Cl-PF3ONS (F53B Minor)	0.0	0.096	0.40	
763051-92-9	11Cl-PF3OUdS (F53B Major)	0.0	0.11	0.40	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)(3:3	0.0	0.22	1.0	
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)	0.0	1.1	5.0	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)(7:3	0.0	0.95	5.0	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEE	0.0	0.035	0.20	
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.0	0.056	0.20	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	0.0	0.054	0.20	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.0	0.055	0.20	

File Not Found: Sequence\S\S105135-CCB4_CCB4_1633_052824.d.pdf

1 - FORM I
ANALYSIS DATA SHEET

Calibration Blank

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Water	Laboratory ID:	S105135-CCB5	File ID:	CCB5_1633_052824.d
Sampled:		Prepared:	05/28/24 00:00	Analyzed:	05/29/24 04:55
Solids:		Preparation:	B375132	Dilution:	
Batch:	S105135	Sequence:	S105135	Calibration:	2400593
Instrument:	QQQ5				
Column:	1				

CAS NO.	COMPOUND	CONC. (ng/mL)	MDL	RL	Q
375-22-4	Perfluorobutanoic acid (PFBA)	0.0	0.22	0.40	
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.0	0.043	0.20	
307-24-4	Perfluorohexanoic acid (PFHxA)	0.0	0.024	0.10	
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.0	0.027	0.10	
335-67-1	Perfluorooctanoic acid (PFOA)	0.0	0.026	0.10	
375-95-1	Perfluorononanoic acid (PFNA)	0.0	0.019	0.10	
335-76-2	Perfluorodecanoic acid (PFDA)	0.0	0.021	0.10	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.0	0.020	0.10	
307-55-1	Perfluorododecanoic acid (PFDoA)	0.0	0.020	0.10	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	0.0	0.030	0.10	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	0.0	0.026	0.10	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.0	0.021	0.10	
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	0.0	0.026	0.10	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.0	0.028	0.10	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	0.0	0.033	0.10	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.0	0.038	0.10	
68259-12-1	Perfluorononanesulfonic acid (PFNS)	0.0	0.025	0.10	
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.0	0.029	0.10	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	0.0	0.029	0.10	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (	0.0	0.075	0.40	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid ((	0.0	0.30	0.40	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (	0.0	0.11	0.40	
754-91-6	Perfluorooctanesulfonamide (PFOSA)	0.0	0.023	0.10	
31506-32-8	N-methyl perfluoroocatnesulfonamide (NMeF	0.0	0.033	0.10	
4151-50-2	N-ethyl perfluorooctanesulfonamide (NEtFOS	0.0	0.034	0.10	
2355-31-9	N-MeFOSAA (NMeFOSAA)	0.0	0.036	0.10	
2991-50-6	N-EtFOSAA (NEtFOSAA)	0.0	0.040	0.10	
24448-09-7	N-methylperfluorooctanesulfonamidoethanol(	0.0	0.27	1.0	
1691-99-2	N-ethylperfluorooctanesulfonamidoethanol (N	0.0	0.27	1.0	
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPC	0.0	0.10	0.40	

1 - FORM I
ANALYSIS DATA SHEET

Calibration Blank

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Water	Laboratory ID:	S105135-CCB5	File ID:	CCB5_1633_052824.d
Sampled:		Prepared:	05/28/24 00:00	Analyzed:	05/29/24 04:55
Solids:		Preparation:	B375132	Dilution:	
Batch:	S105135	Sequence:	S105135	Calibration:	2400593
Instrument:	QQQ5				
Column:	1				

CAS NO.	COMPOUND	CONC. (ng/mL)	MDL	RL	Q
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADON/	0.0	0.082	0.40	
756426-58-1	9Cl-PF3ONS (F53B Minor)	0.0	0.096	0.40	
763051-92-9	11Cl-PF3OUdS (F53B Major)	0.0	0.11	0.40	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)(3:3	0.0	0.22	1.0	
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)	0.0	1.1	5.0	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)(7:3	0.0	0.95	5.0	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEE	0.0	0.035	0.20	
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.0	0.056	0.20	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	0.0	0.054	0.20	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.0	0.055	0.20	

File Not Found: Sequence\S\S105135-CCB5_CCB5_1633_052824.d.pdf

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

Draft Method 1633

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	QQQ6	Calibration:	2400518
Lab File ID:	CCV1_1633_051724.d	Calibration Date:	05/08/24 00:00
Sequence:	S104823	Injection Date:	05/17/24
Lab Sample ID:	S104823-CCV1	Injection Time:	09:13

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Perfluorobutanoic acid (PFBA)	A	0.400	0.326	0.9230632	0.7526119		-18.5	30
Perfluoropentanoic acid (PFPeA)	A	0.200	0.158	1.009825	0.7986598		-20.9	30
Perfluorohexanoic acid (PFHxA)	A	0.100	0.0861	1.01642	0.8753749		-13.9	30
Perfluoroheptanoic acid (PFHpA)	A	0.100	0.0879	1.042023	0.915861		-12.1	30
Perfluorooctanoic acid (PFOA)	A	0.100	0.0867	1.255142	1.088099		-13.3	30
Perfluorononanoic acid (PFNA)	A	0.100	0.0785	1.005098	0.7885972		-21.5	30
Perfluorodecanoic acid (PFDA)	A	0.100	0.0822	1.030105	0.8463391		-17.8	30
Perfluoroundecanoic acid (PFUnA)	A	0.100	0.0834	1.004618	0.8381325		-16.6	30
Perfluorododecanoic acid (PFDoA)	A	0.100	0.0811	1.036105	0.8401376		-18.9	30
Perfluorotridecanoic acid (PFTrDA)	A	0.100	0.0852	0.8826679	0.7517202		-14.8	30
Perfluorotetradecanoic acid (PFTeDA)	A	0.100	0.0830	1.005763	0.8349393		-17.0	30
Perfluorobutanesulfonic acid (PFBS)	A	0.0888	0.0708	1.246289	0.9947576		-20.2	30
Perfluoropentanesulfonic acid (PFPeS)	A	0.0940	0.0784	1.295728	1.079935		-16.7	30
Perfluorohexanesulfonic acid (PFHxS)	A	0.0915	0.0859	1.12749	1.060169		-6.0	30
Perfluoroheptanesulfonic acid (PFHpS)	A	0.0952	0.0754	1.319448	1.043151		-20.9	30
Perfluorooctanesulfonic acid (PFOS)	A	0.0928	0.0821	1.299092	1.149899		-11.5	30
Perfluorononanesulfonic acid (PFNS)	A	0.0962	0.0725	1.017862	0.7673526		-24.6	30
Perfluorodecanesulfonic acid (PFDS)	A	0.0965	0.0870	0.8144733	0.7343826		-9.8	30
Perfluorododecanesulfonic acid (PFDoS)	A	0.0970	0.0812	0.4986549	0.4168868		-16.4	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	A	0.375	0.302	2.915315	2.34963		-19.4	30

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

Draft Method 1633

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	QQQ6	Calibration:	2400518
Lab File ID:	CCV1_1633_051724.d	Calibration Date:	05/08/24 00:00
Sequence:	S104823	Injection Date:	05/17/24
Lab Sample ID:	S104823-CCV1	Injection Time:	09:13

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	A	0.380	0.321	3.387056	2.864681		-15.4	30	
1H,1H,2H,2H-Perfluorodecan e sulfonic acid (8:2FTS)	A	0.385	0.329	2.548636	2.184074		-14.3	30	
Perfluorooctanesulfonamide (PFOSA)	A	0.100	0.0806	1.103835	0.8895773		-19.4	30	
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	A	0.100	0.0710	1.210944	0.8602164		-29.0	30	
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	A	0.100	0.0782	1.298802	1.015491		-21.8	30	
N-MeFOSAA (NMeFOSAA)	A	0.100	0.0593	0.4240025	0.2516303		-40.7	30	*
N-EtFOSAA (NEtFOSAA)	A	0.100	0.0788	1.21036	0.9532225		-21.2	30	
N-methylperfluorooctanesulfo namidoethanol(NMeFOSE)	A	1.00	0.819	1.079448	0.8844418		-18.1	30	
N-ethylperfluorooctanesulfona midoethanol (NEtFOSE)	A	1.00	0.809	1.116928	0.9032965		-19.1	30	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	A	0.400	0.338	0.9202454	0.7774879		-15.5	30	
4,8-Dioxa-3H-perfluorononano ic acid (ADONA)	A	0.378	0.307	7.434924	6.044239		-18.7	30	
9Cl-PF3ONS (F53B Minor)	A	0.375	0.340	3.288392	2.992461		-9.0	30	
11Cl-PF3OUdS (F53B Major)	A	0.378	0.350	2.952986	2.731229		-7.5	30	
3-Perfluoropropyl propanoic acid (FPrPA)(3:3FTCA)	A	1.00	0.762	3.553835E-02	2.707141E-02		-23.8	30	
2H,2H,3H,3H-Perfluorooctano ic acid(FPePA)(5:3FTCA)	A	5.00	4.06	9.961691E-02	0.0808152		-18.9	30	
3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTCA)	A	5.00	4.17	0.117316	9.794513E-02		-16.5	30	
Perfluoro(2-ethoxyethane)sulf onic acid (PFEESA)	A	0.178	0.156	1.259028	1.106009		-12.2	30	
Perfluoro-3-methoxypropanoic acid (PFMPA)	A	0.200	0.170	0.1094335	9.285985E-02		-15.1	30	
Perfluoro-4-methoxybutanoic acid (PFMBA)	A	0.200	0.165	0.6884095	0.5688626		-17.4	30	
Nonafluoro-3,6-dioxaheptanoi c acid (NFDHA)	A	0.200	0.171	8.451406E-02	7.232349E-02		-14.4	30	
13C4-PFBA	A	10.0	10.9	1.085569	1.181897		8.9	30	

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

Draft Method 1633

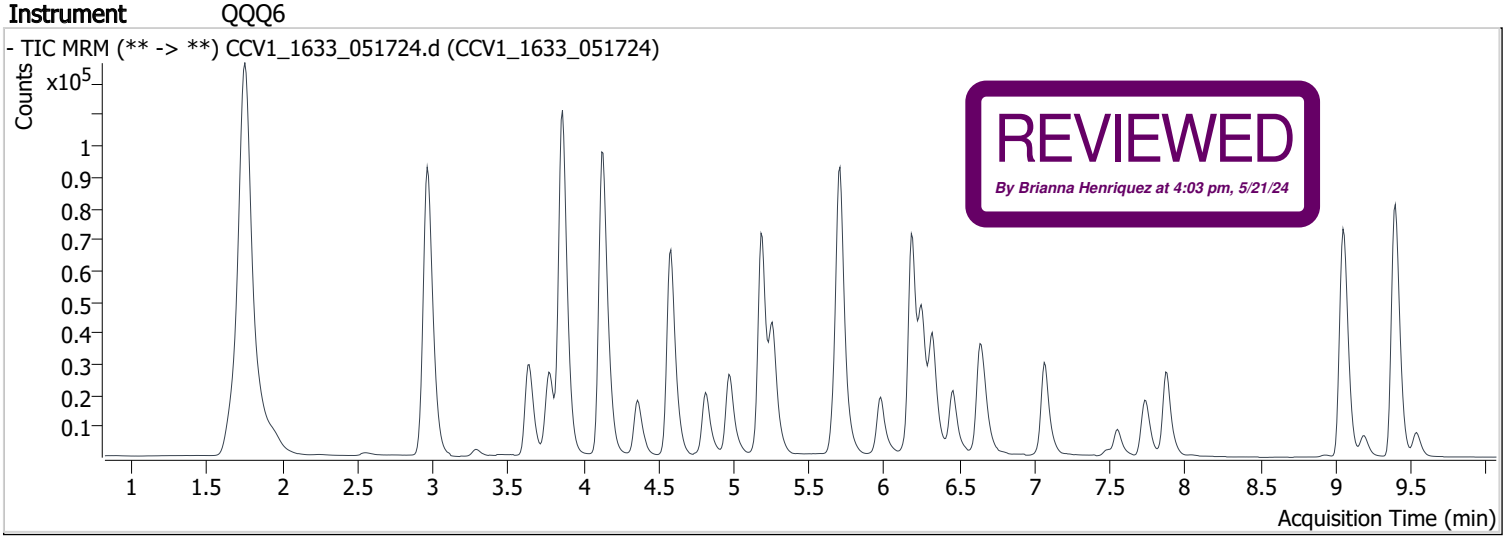
Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	QQQ6	Calibration:	2400518
Lab File ID:	CCV1_1633_051724.d	Calibration Date:	05/08/24 00:00
Sequence:	S104823	Injection Date:	05/17/24
Lab Sample ID:	S104823-CCV1	Injection Time:	09:13

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
13C5-PFPeA	A	5.00	5.60	0.9232685	1.033317		11.9	30
13C5-PFHxA	A	2.50	2.78	1.030198	1.144072		11.1	30
13C4-PFHpA	A	2.50	2.81	1.152357	1.294314		12.3	30
13C8-PFOA	A	2.50	2.74	6.853857	7.500264		9.4	30
13C9-PFNA	A	1.25	1.35	0.8524299	0.9202066		8.0	30
13C6-PFDA	A	1.25	1.38	0.9862821	1.08702		10.2	30
13C7-PFUnA	A	1.25	1.46	0.7984683	0.9294743		16.4	30
13C2-PFDoA	A	1.25	1.34	0.8241087	0.8809221		6.9	30
13C2-PFTeDA	A	1.25	1.38	0.7095946	0.7836155		10.4	30
13C3-PFBS	A	2.50	2.93	1.35117	1.582821		17.1	30
13C3-PFHxS	A	2.50	2.71	1.020951	1.105927		8.3	30
13C8-PFOS	A	2.50	2.80	0.8987725	1.006596		12.0	30
13C2-4:2FTS	A	5.00	5.23	0.2991766	0.3129506		4.6	30
13C2-6:2FTS	A	5.00	5.51	0.2021627	0.2225974		10.1	30
13C2-8:2FTS	A	5.00	5.53	0.1643288	0.1819005		10.7	30
13C8-PFOSA	A	2.50	2.73	1.580736	1.727611		9.3	30
D3-NMeFOSA	A	2.50	2.73	0.5070093	0.5539478		9.3	30
D5-NEtFOSA	A	2.50	2.88	0.5288652	0.6100912		15.4	30
D3-NMeFOSAA	A	5.00	5.40	1.619524	1.747762		7.9	30
D5-NEtFOSAA	A	5.00	5.69	0.819503	0.9318115		13.7	30
D7-NMeFOSE	A	25.0	27.6	0.6143202	0.6774168		10.3	30
D9-NEtFOSE	A	25.0	28.1	0.6573456	0.7385296		12.4	30
13C3-HFPO-DA	A	10.0	11.4	0.2881606	0.3271815		13.5	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Batch Path	R:\Data\MAY2024\051724\QuantResults\1633_CCVS_CORRECTED.batch.bin		
Analysis Time	5/20/2024 3:06 PM	**Last Calib Update**	5/9/2024 9:16 AM
Acq. Time	5/17/2024 9:13 AM	**Data File**	CCV1_1633_051724.d
Sample Type	CC	**Sample Name**	CCV1_1633_051724
Dilution	1	**Acq. Method**	1633_ACQUISITION_01.m
Sample Comment	E#24E0154	**Processing method**	1633_050824.m
Instrument	QQQ6		



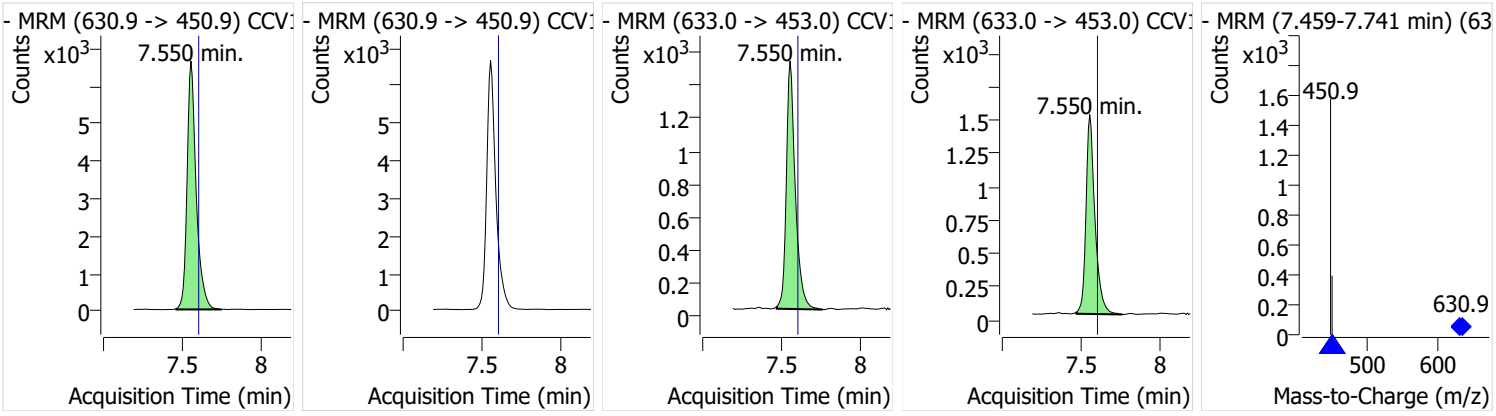
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
11Cl-PF3OUdS	7.550	26538	3830.61		13C3-HFPODA - ISTD	4.128	257050	0.3498	ng/ml			
633.0 -> 453.0			746.78	22.3								
3:3FTCA	2.557	2198	1334.63		13C5-PFPeA - ISTD	2.961	405913	0.7618	ng/ml			
241.0 -> 117.0			152.67	57.0								
4:2FTS	3.631	5463	2128.81		13C2-4:2FTS - ISTD	3.630	30998	0.3019	ng/ml			
327.0 -> 80.9			615.24	40.0								
5:3FTCA	4.359	36320	3686.93		13C5-PFHxA - ISTD	3.861	224710	4.0563	ng/ml			
341.0 -> 217.0			4730.31	92.6								
6:2FTS	4.966	4800	328.24		13C2-6:2FTS - ISTD	4.966	22049	0.3214	ng/ml			
427.0 -> 80.9			180.05	31.0								
7:3FTCA	5.683	44019	5070.48		13C5-PFHxA - ISTD	3.861	224710	4.1744	ng/ml			
441.0 -> 317.0			2391.48	88.1								
8:2FTS	5.967	3030	15495.45		13C2-8:2FTS - ISTD	5.975	18017	0.3294	ng/ml			
527.0 -> 81.0			596.13	45.6								
9Cl-PF3ONS	6.671	28845	941.34		13C3-HFPODA - ISTD	4.128	257050	0.3400	ng/ml			
533.0 -> 353.0			850.92	31.1								
ADONA	4.814	58729	6427.39		13C3-HFPODA - ISTD	4.128	257050	0.3075	ng/ml			
377.0 -> 85.1			6631.96	35.8								
HFPO-DA	4.137	7994	1810.50		13C3-HFPODA - ISTD	4.128	257050	0.3379	ng/ml			
285.0 -> 184.9			269.37	52.1								
NEtFOSA	9.548	1038	787.84		D5-NEtFOSA - ISTD	9.538	25551	0.0782	ng/ml			

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
526.0 -> 219.0			703.82	101.6								
NEtFOSAA	6.447	1488	199.19		D5-NEtFOSAA - ISTD	6.455	78050	0.0788	ng/ml	✔	3	ALB 5/20/24
584.0 -> 526.0			66.81	63.4								
NEtFOSE	9.420	11176	3828.50		D9-NEtFOSE - ISTD	9.394	309303	0.8087	ng/ml			
NFDHA	3.775	1300	393.28		13C5-PFHxA - ISTD	3.861	224710	0.1712	ng/ml			
295.0 -> 85.0			99.23	35.3								
NMeFOSA	9.195	798	662.27		D3-NMeFOSA - ISTD	9.193	23200	0.0710	ng/ml			
512.0 -> 219.0			533.04	116.8								
NMeFOSAA	6.253	737	101.21		D3-NMeFOSAA - ISTD	6.252	146396	0.0593	ng/ml	✔	3	RRB 05/20/24
570.0 -> 418.9			3448.47	83.4								
NMeFOSE	9.074	10037	6132.22		D7-NMeFOSE - ISTD	9.049	283709	0.8193	ng/ml			
PFBA	1.746	19548	302.65		13C4-PFBA - ISTD	1.749	649322	0.3261	ng/ml	✔	3	ALB 5/20/24
PFBS	3.774	2770	555.72		13C3-PFBS - ISTD	3.774	78390	0.0708	ng/ml			
298.9 -> 98.8			119.93	45.4								
PFDA	6.189	9429	439.89		13C6-PFDA - ISTD	6.181	139267	0.0822	ng/ml			
513.0 -> 219.0			575.39	18.6								
PFDoA	7.061	7586	294.58		13C2-PFDoA - ISTD	7.061	112862	0.0811	ng/ml			
613.0 -> 319.0			479.45	14.3								
PFDoS	8.045	682	660.29		13C8-PFOS - ISTD	6.322	42157	0.0812	ng/ml			
698.9 -> 99.0			567.31	68.1								
PFDS	7.231	1195	514.39		13C8-PFOS - ISTD	6.322	42157	0.0870	ng/ml			
599.0 -> 98.8			522.40	51.4								
PFEESA	4.173	17695	1588.24		13C5-PFHxA - ISTD	3.861	224710	0.1565	ng/ml			
315.0 -> 83.0			310.95	7.1								
PFHpA	4.583	9313	215.14		13C4-PFHpA - ISTD	4.582	254220	0.0879	ng/ml			
362.9 -> 169.0			198.68	18.4								
PFHpS	5.824	1675	334.25		13C8-PFOS - ISTD	6.322	42157	0.0754	ng/ml			
449.0 -> 98.8			205.75	54.8								
PFHxA	3.863	7868	243.05		13C5-PFHxA - ISTD	3.861	224710	0.0861	ng/ml			
313.0 -> 118.9			39.82	3.7								
PFHxS	5.260	2125	490.14		13C3-PFHxS - ISTD	5.259	54772	0.0859	ng/ml	✔	3	ALB 5/20/24
398.9 -> 99.0			196.93	44.2								
PFMBA	3.288	9236	3873.29		13C5-PFPeA - ISTD	2.961	405913	0.1653	ng/ml			
PFMPA	2.250	1508	659.06		13C5-PFPeA - ISTD	2.961	405913	0.1697	ng/ml			
PFNA	5.706	9328	313.48		13C9-PFNA - ISTD	5.705	147855	0.0785	ng/ml			
463.0 -> 219.0			400.47	19.4								
PFNS	6.794	1245	296.68		13C8-PFOS - ISTD	6.322	42157	0.0725	ng/ml			
549.0 -> 98.8			273.95	57.0								
PFOA	5.182	10492	232.11		13C8-PFOA - ISTD	5.181	241068	0.0867	ng/ml			
413.0 -> 169.0			522.02	25.3								
PFOS	6.323	1799	192.71		13C8-PFOS - ISTD	6.322	42157	0.0821	ng/ml	✔	3	ALB 5/20/24
499.0 -> 99.0			583.13	45.2								

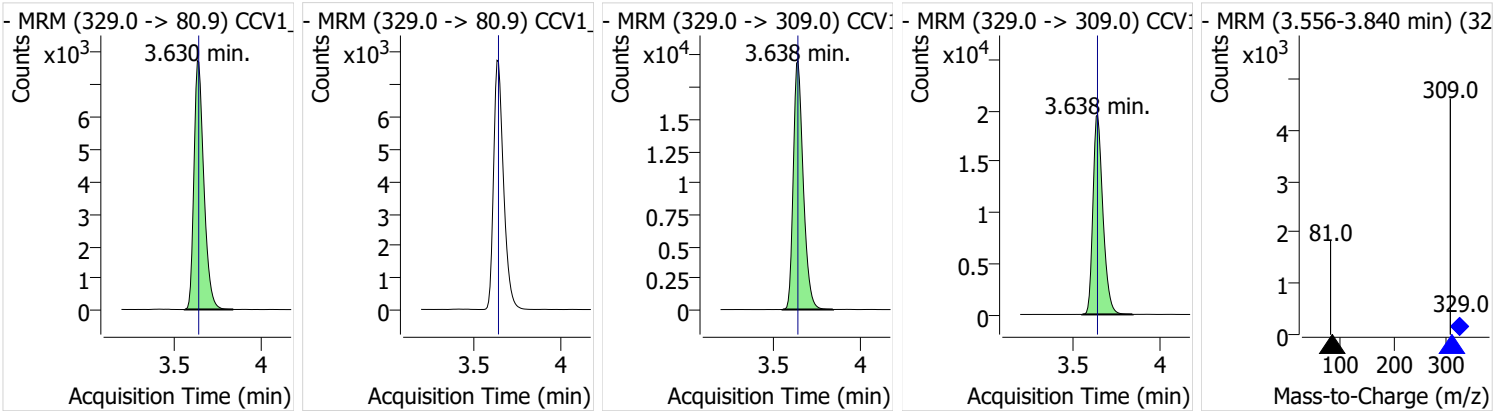
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFOSA	7.736	2575	13252.65		13C8-PFOSA - ISTD	7.735	72354	0.0806	ng/ml			
497.9 -> 478.0			348.81	2.2								
PFPeA	2.962	12967	522.42		13C5-PFPeA - ISTD	2.961	405913	0.1582	ng/ml			
263.0 -> 69.0			19.05	0.3								
PFPeS	4.600	2224	398.49		13C3-PFHxS - ISTD	5.259	54772	0.0784	ng/ml			
349.0 -> 98.9			228.98	46.9								
PFTeDA	7.869	6706	505.89		13C2-PFTeDA - ISTD	7.869	100395	0.0830	ng/ml			
713.0 -> 168.9			4879.06	8.1								
PFTrDA	7.473	6787	378.55		13C2-PFDoA - ISTD	7.061	112862	0.0852	ng/ml			
663.0 -> 168.9			329.43	14.0								
PFUnA	6.637	7985	315.47		13C7-PFUnA - ISTD	6.636	119082	0.0834	ng/ml			
563.0 -> 269.1			804.19	17.0								
TDCA	6.183	285	28.12					-	ng/ml			
499.0 -> 99.0			22.21	*43.6								
13C2-8:2FTS	5.975	18017	3048.20		18O2-PFHxS	5.266	49526	5.5347	ng/ml			
529.0 -> 509.0			15685.16	288.3								
13C2-4:2FTS	3.630	30998	6215.40		18O2-PFHxS	5.266	49526	5.2302	ng/ml			
329.0 -> 309.0			14971.82	255.3								
13C2-6:2FTS	4.966	22049	10920.65		18O2-PFHxS	5.266	49526	5.5054	ng/ml			
429.0 -> 409.0			19824.18	335.8								
13C5-PFHxA	3.861	224710	38596.37		13C2-PFHxA	3.861	196413	2.7763	ng/ml			
318.0 -> 120.0			1124.66	1.8								
13C6-PFDA	6.181	139267	12369.10		13C2-PFDA	6.181	128118	1.3777	ng/ml			
13C7-PFUnA	6.636	119082	8682.03		13C2-PFDA	6.181	128118	1.4551	ng/ml			
13C8-PFOA	5.181	241068	29589.35		13C4-PFOA	5.181	32141	2.7358	ng/ml			
13C8-PFOS	6.322	42157	13772.51		13C4-PFOS	6.322	41881	2.7999	ng/ml			
507.0 -> 99.0			4291.41	52.2								
13C8-PFOSA	7.735	72354	42538.48		13C4-PFOS	6.322	41881	2.7323	ng/ml			
13C9-PFNA	5.705	147855	8915.37		13C5-PFNA	5.705	160676	1.3494	ng/ml			
13C5-PFPeA	2.961	405913	13531.24		13C2-PFHxA	3.861	196413	5.5960	ng/ml			
13C2-PFDoA	7.061	112862	7202.35		13C2-PFDA	6.181	128118	1.3362	ng/ml			
13C4-PFHpA	4.582	254220	25073.54		13C2-PFHxA	3.861	196413	2.8080	ng/ml			
13C4-PFBA	1.749	649322	110552.31		13C3-PFBA	1.751	274695	10.8874	ng/ml			
13C3-PFHxS	5.259	54772	14514.34		18O2-PFHxS	5.266	49526	2.7081	ng/ml			
402.0 -> 99.0			11076.24	53.8								
13C3-PFBS	3.774	78390	19109.66		18O2-PFHxS	5.266	49526	2.9286	ng/ml			

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
301.9 -> 98.9			10426.27	34.8								
13C3-HFPODA	4.128	257050	63289.66		13C2-PFHxA	3.861	196413	11.3541	ng/ml			
287.0 -> 185.0			15308.94	45.8								
13C2-PFTeDA	7.869	100395	13970.46		13C2-PFDA	6.181	128118	1.3804	ng/ml			
D9-NEtFOSE	9.394	309303	174053.26		13C4-PFOS	6.322	41881	28.0876	ng/ml			
D3-NMeFOSA	9.193	23200	12442.54		13C4-PFOS	6.322	41881	2.7314	ng/ml			
D3-NMeFOSAA	6.252	146396	21492.14		13C4-PFOS	6.322	41881	5.3959	ng/ml			
D5-NEtFOSA	9.538	25551	9947.21		13C4-PFOS	6.322	41881	2.8840	ng/ml			
D5-NEtFOSAA	6.455	78050	5100.35		13C4-PFOS	6.322	41881	5.6852	ng/ml			
D7-NMeFOSE	9.049	283709	89247.73		13C4-PFOS	6.322	41881	27.5677	ng/ml			

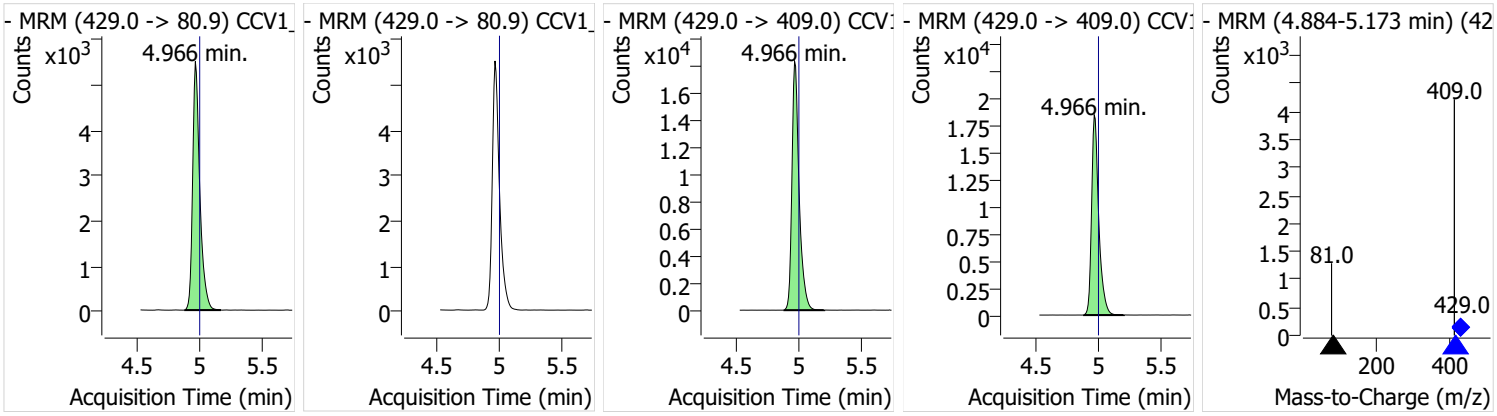
11Cl-PF3OUdS



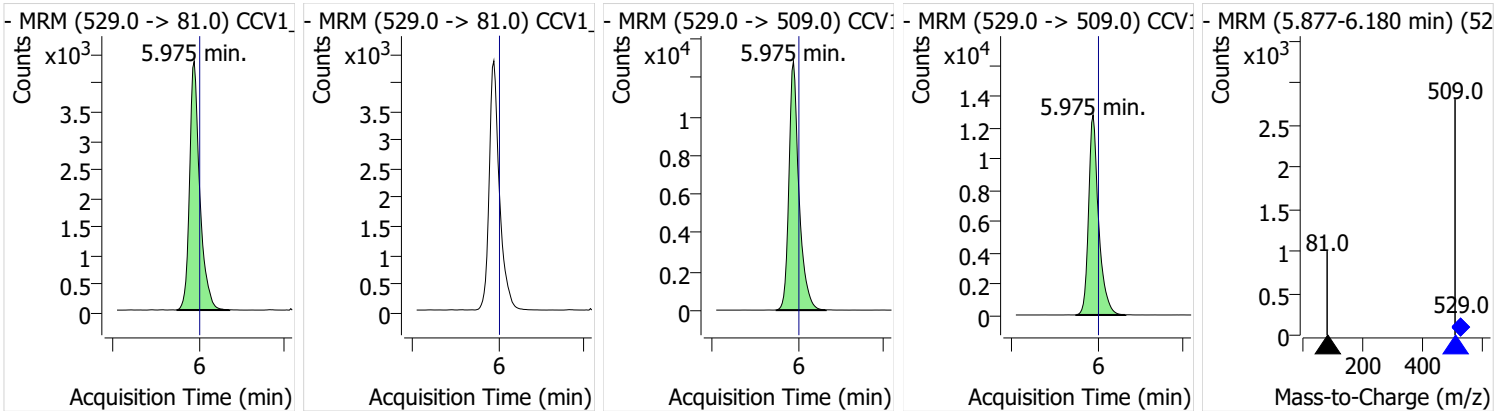
13C2-4:2FTS - ISTD



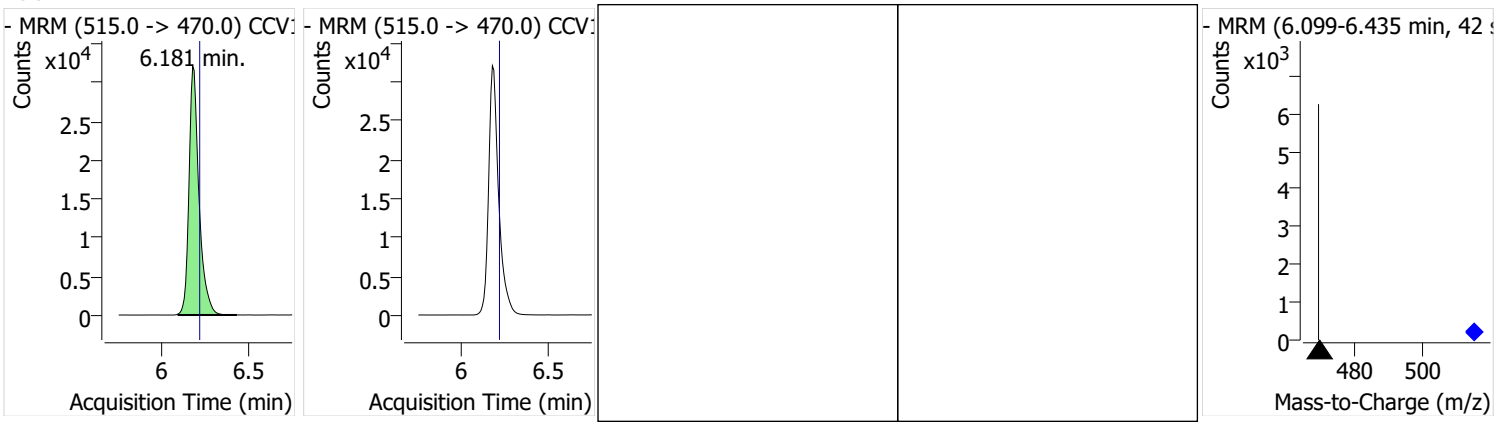
13C2-6:2FTS - ISTD



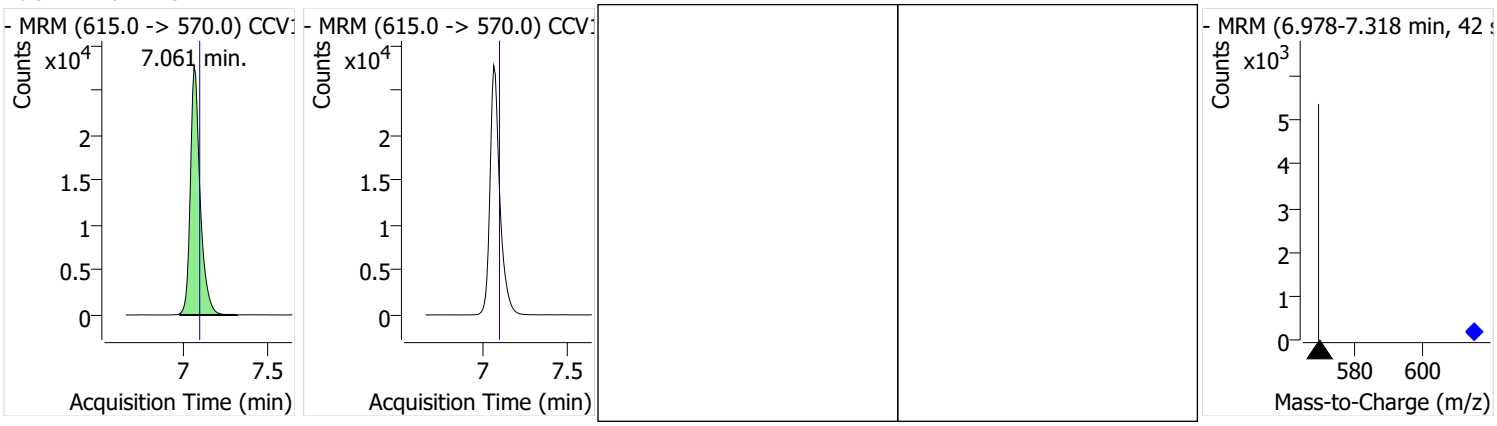
13C2-8:2FTS - ISTD



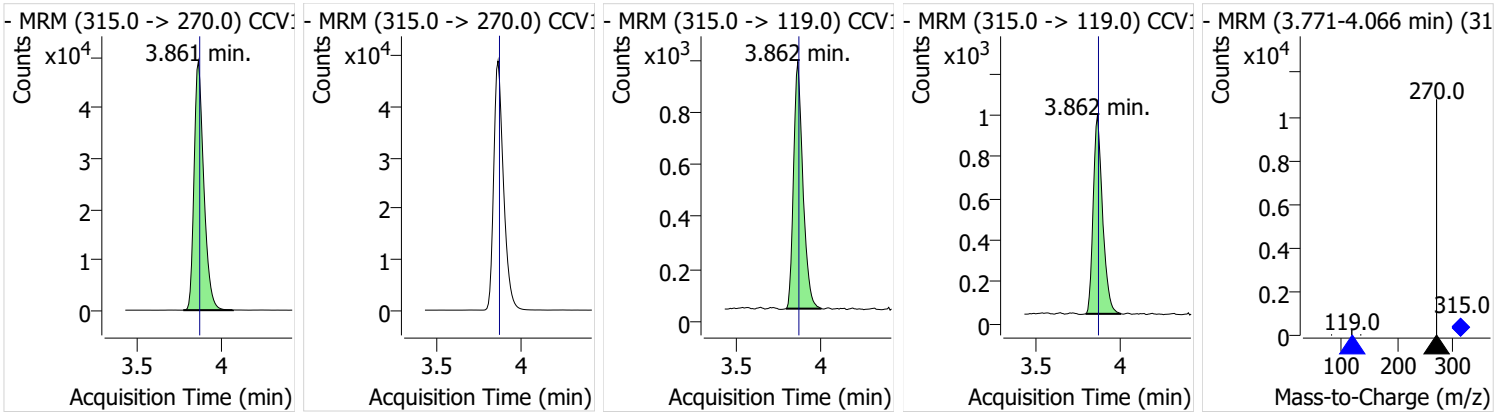
13C2-PFDA



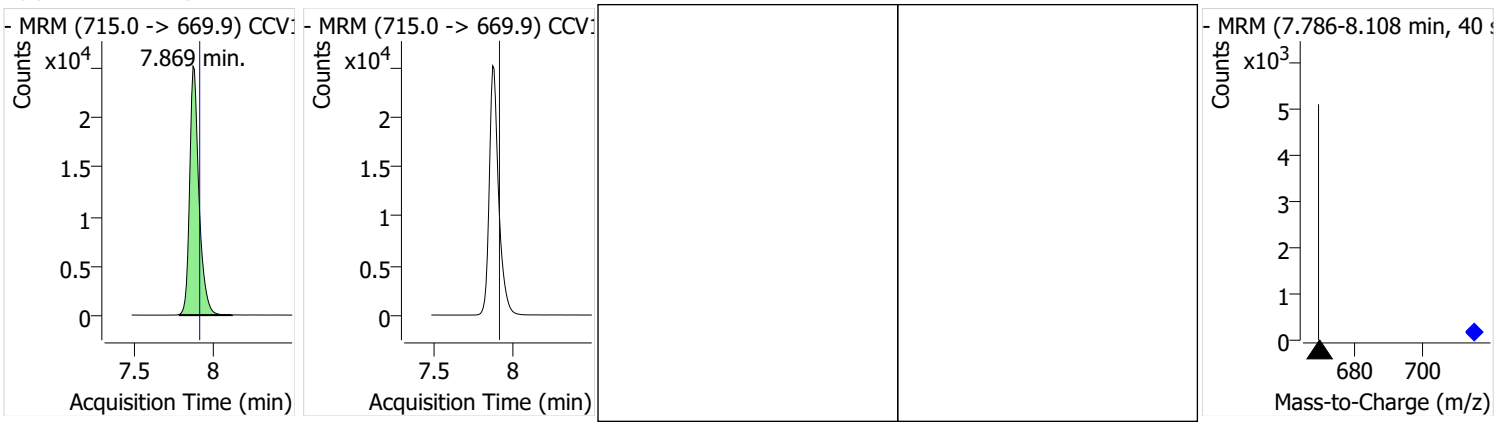
13C2-PFDoA - ISTD



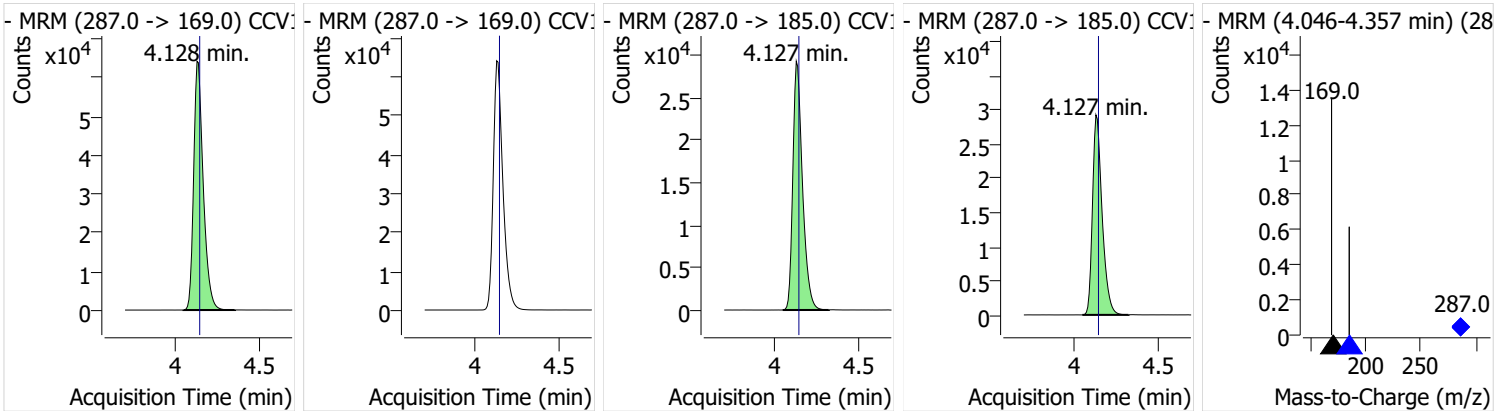
13C2-PFHxA



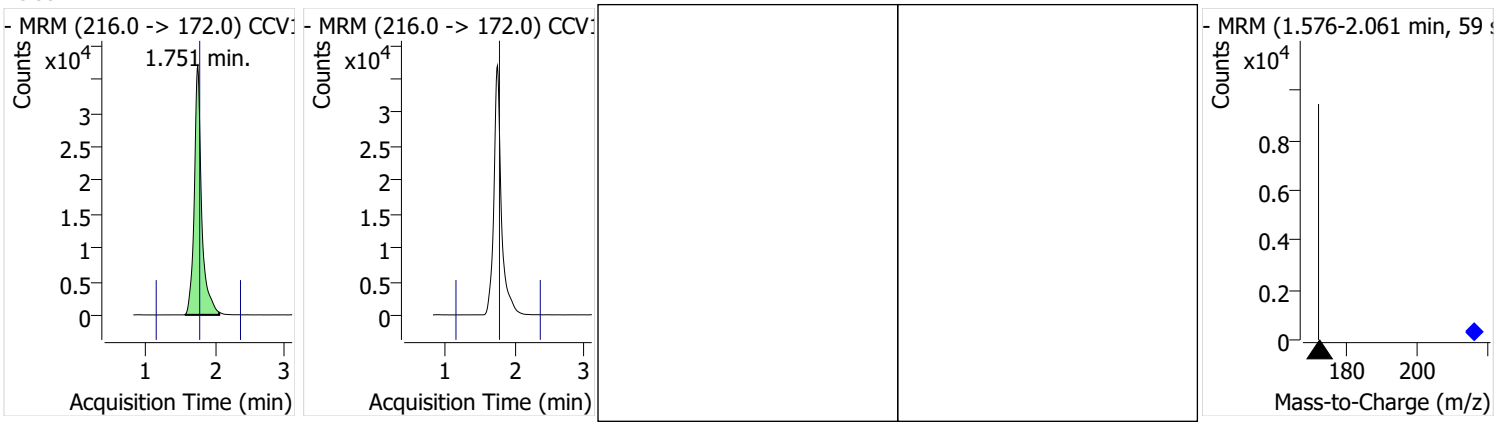
13C2-PFTeDA - ISTD



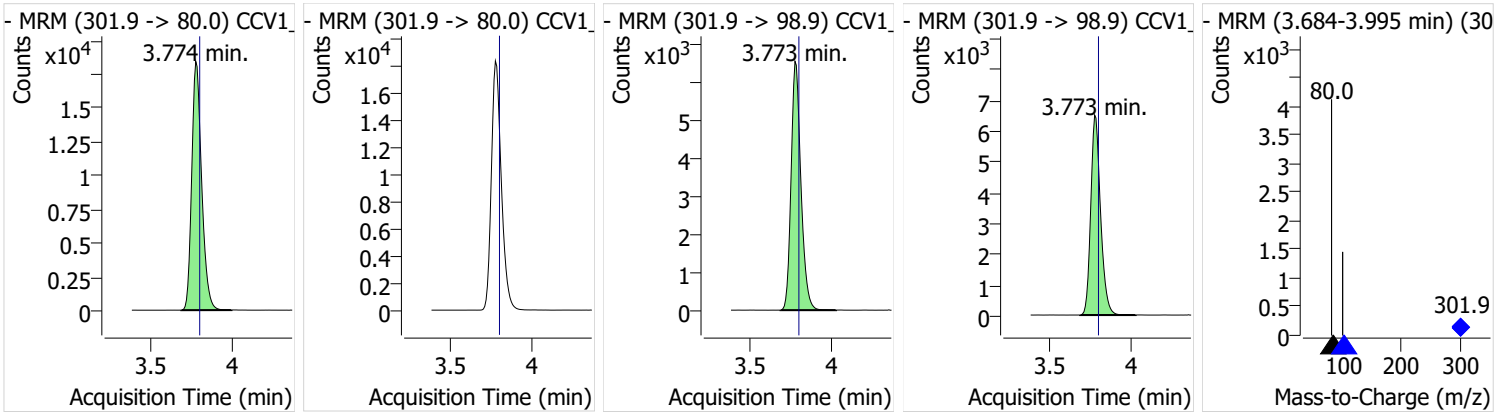
13C3-HFPODA - ISTD



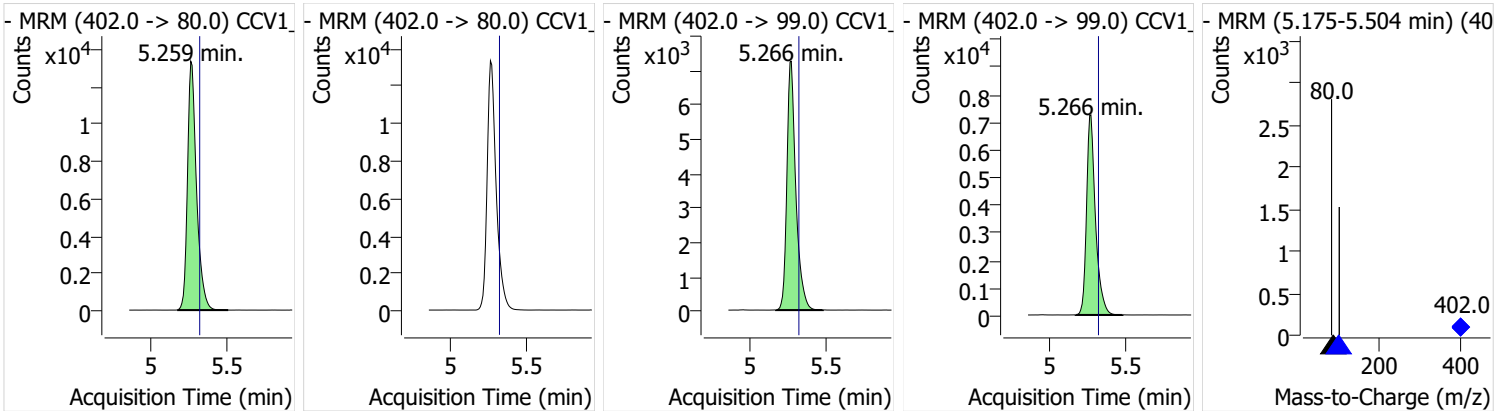
13C3-PFBA



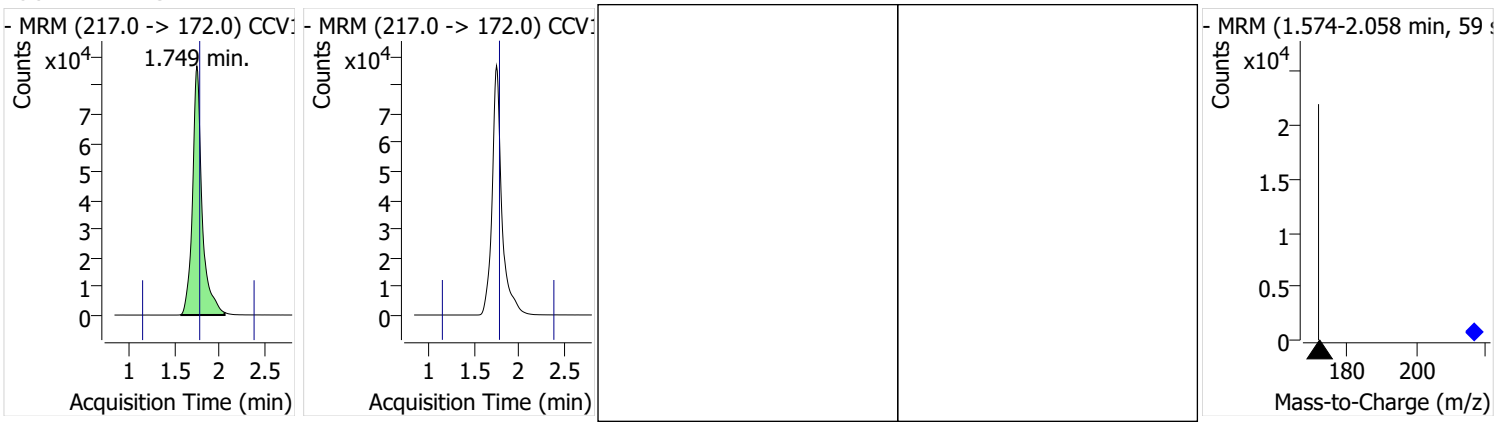
13C3-PFBS - ISTD



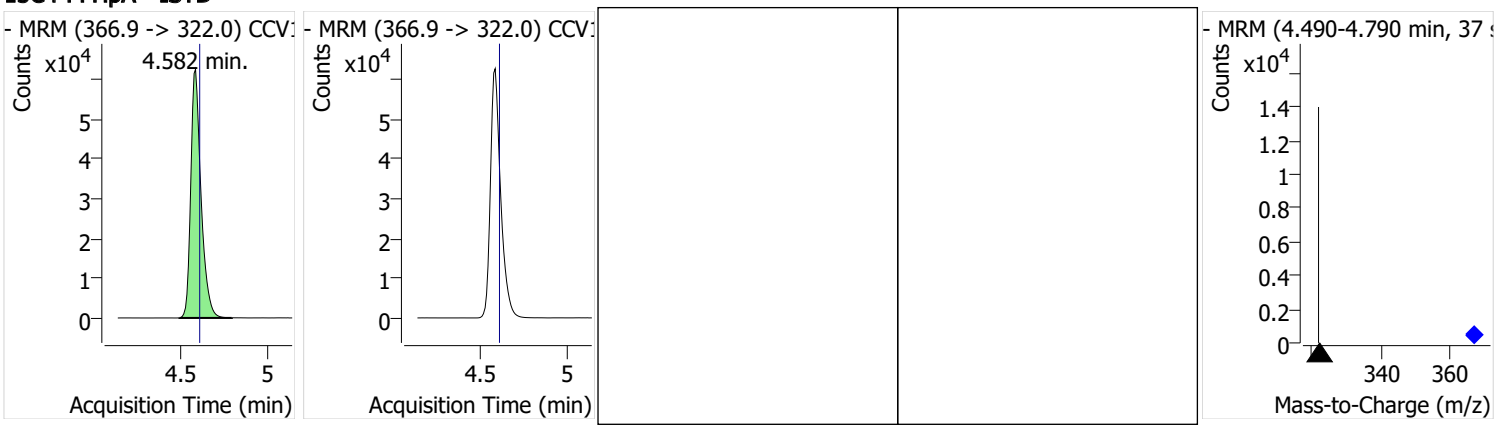
13C3-PFHxS - ISTD



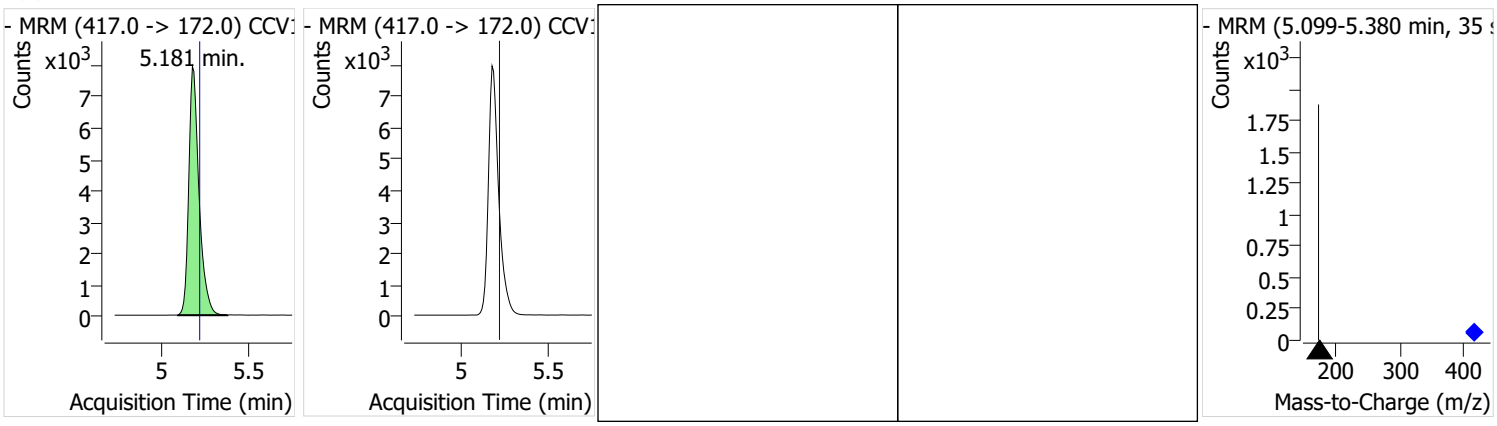
13C4-PFBA - ISTD



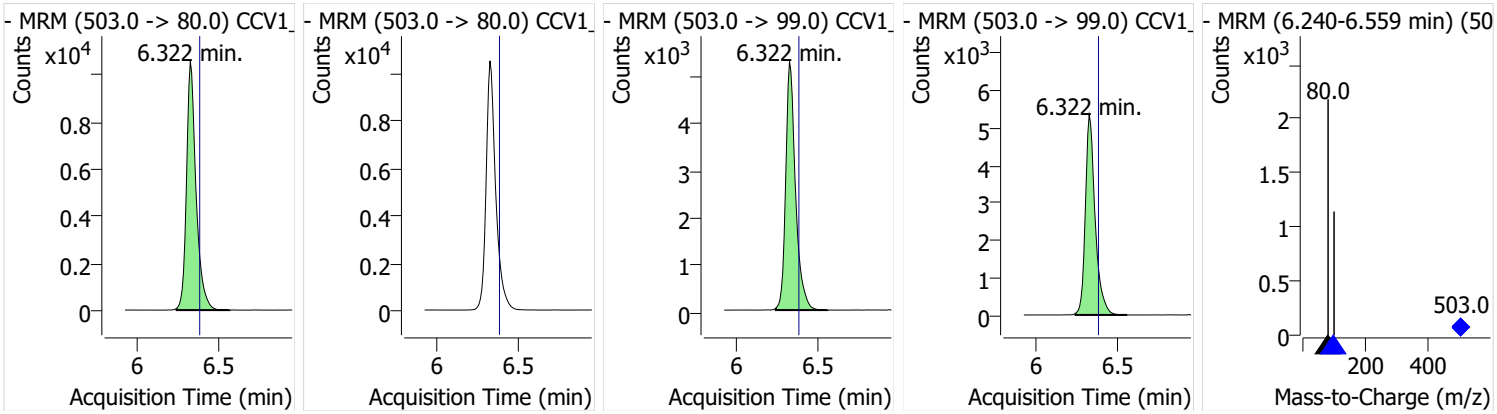
13C4-PFHpA - ISTD



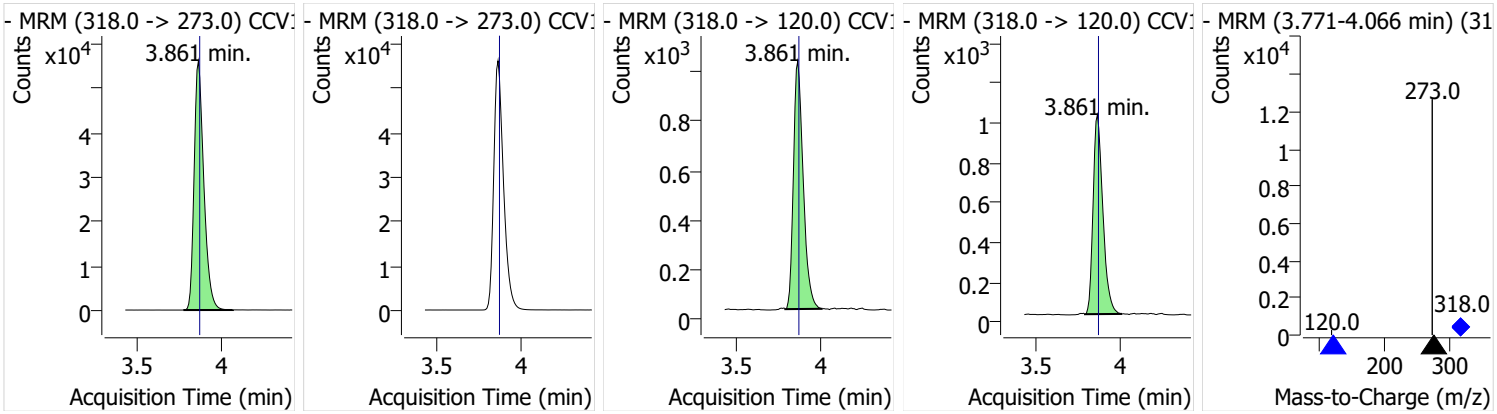
13C4-PFOA



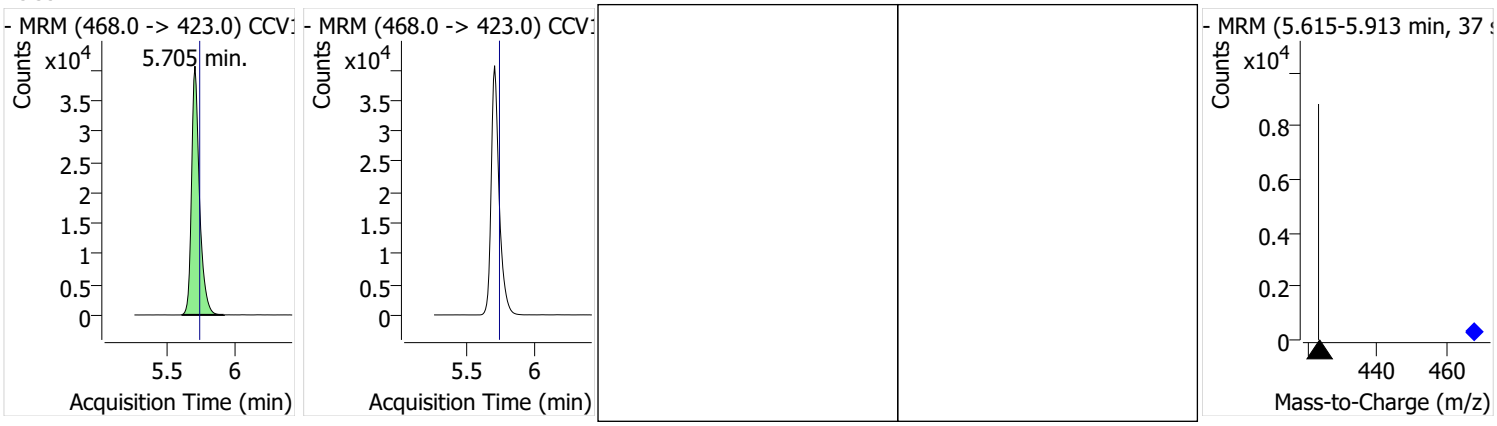
13C4-PFOS



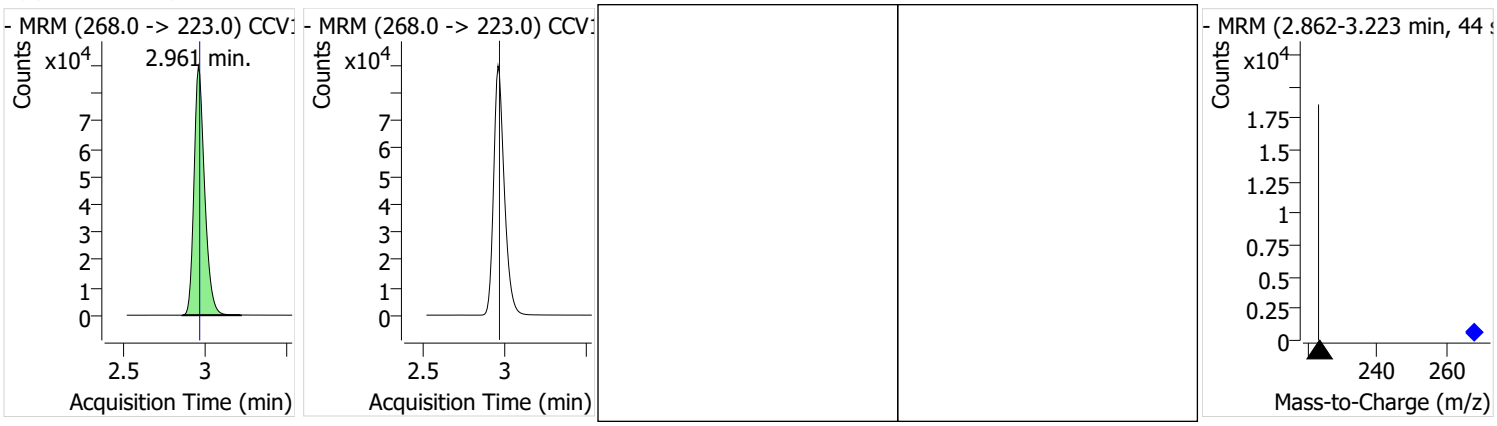
13C5-PFHxA - ISTD



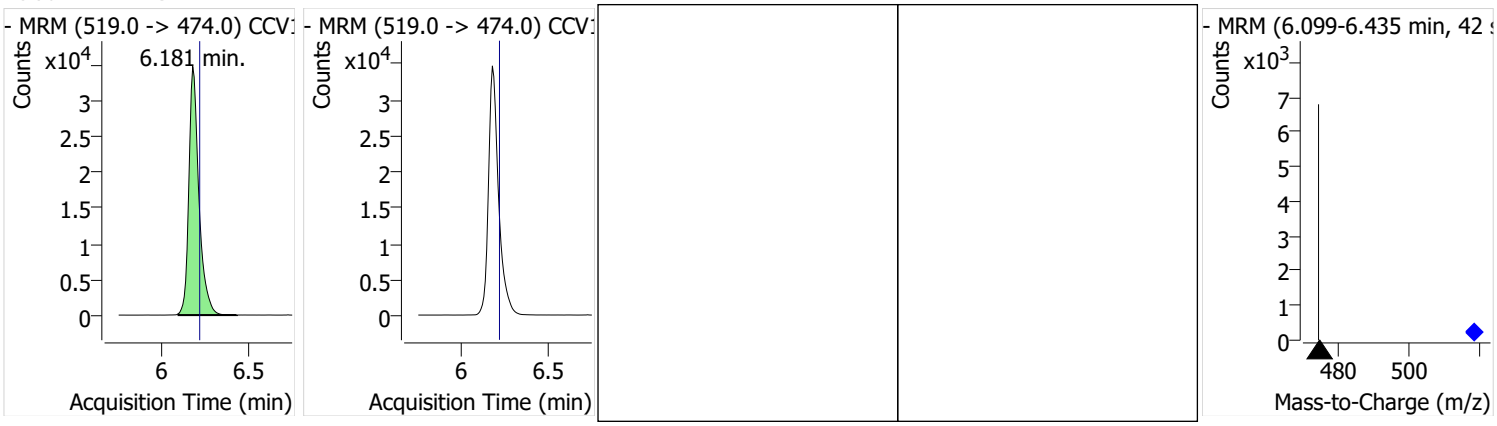
13C5-PFNA



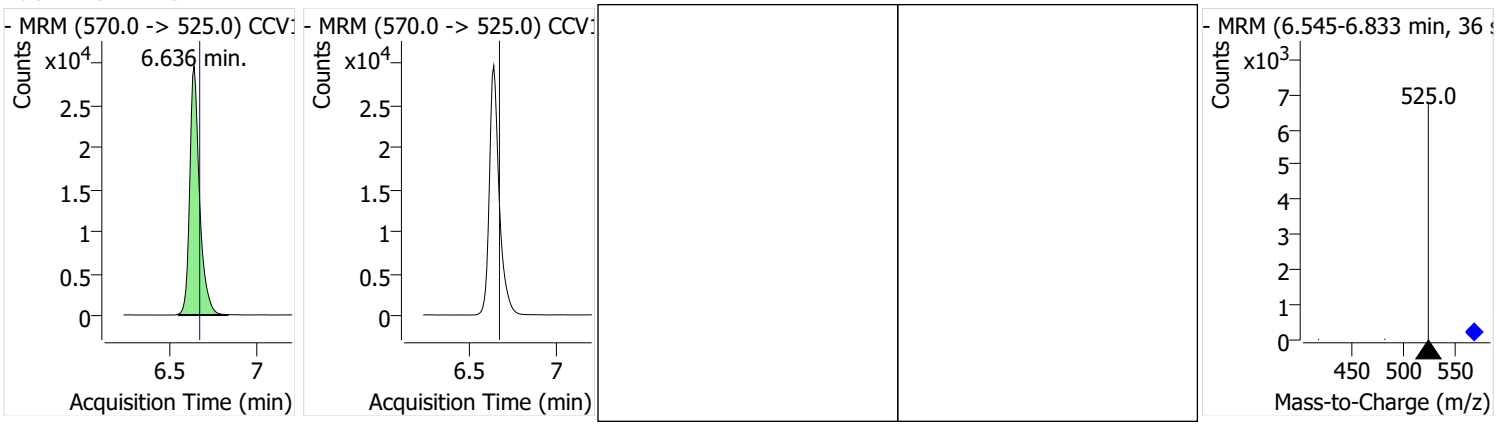
13C5-PFPeA - ISTD



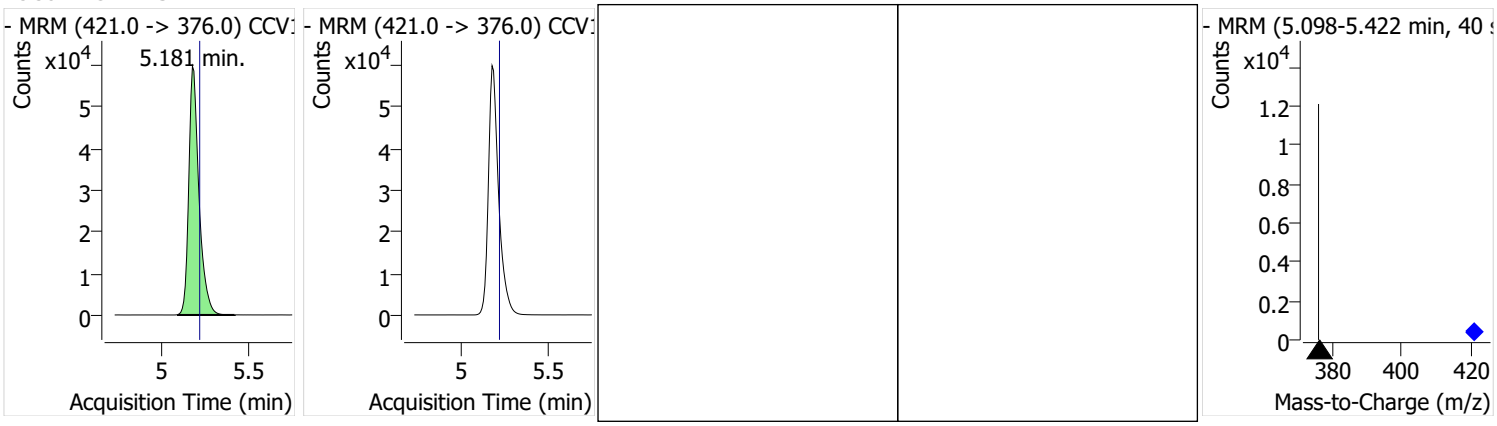
13C6-PFDA - ISTD



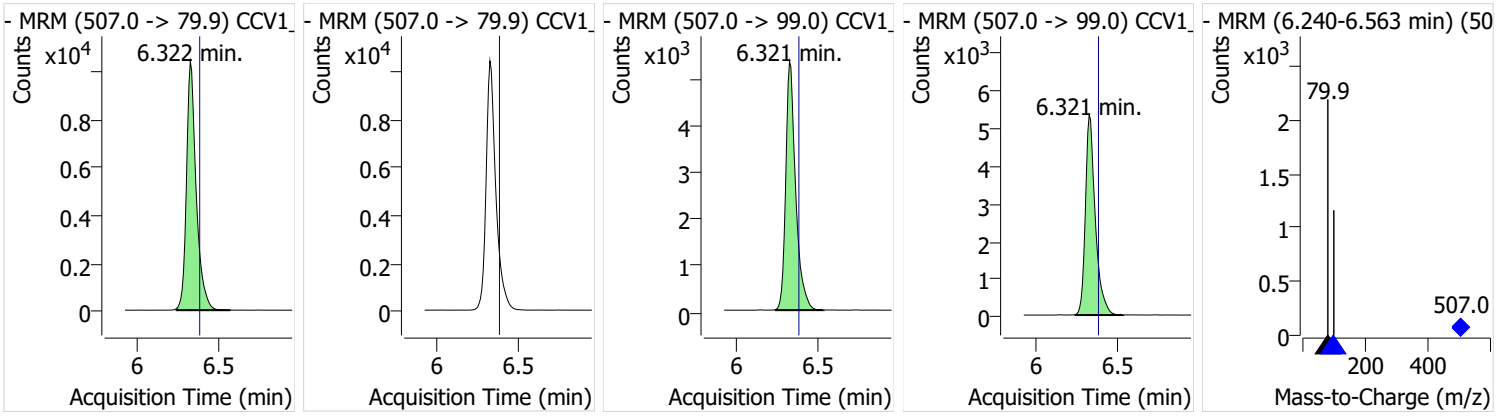
13C7-PFUnA - ISTD



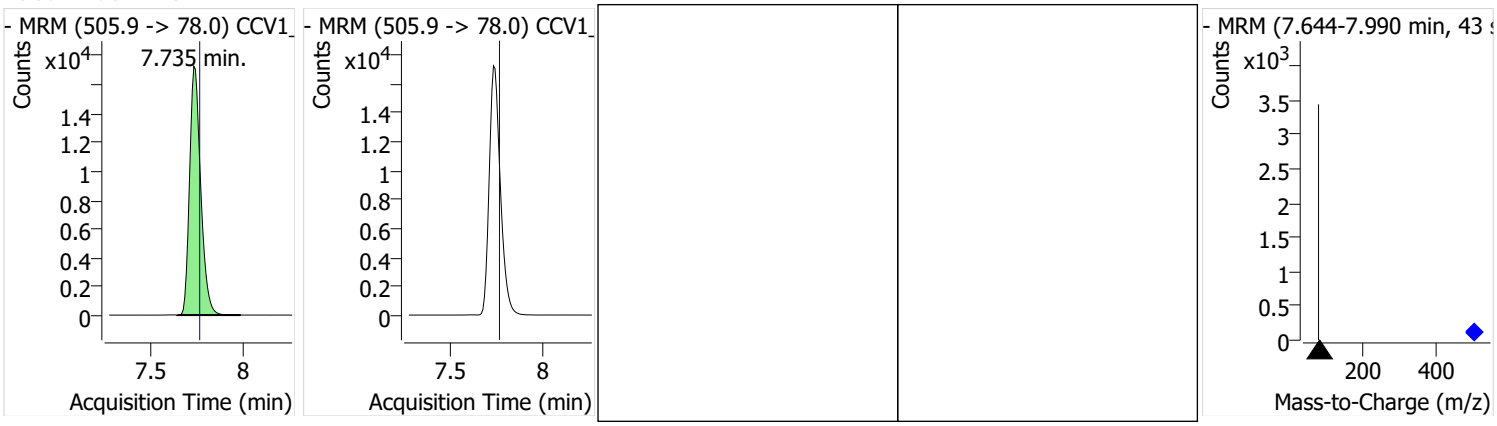
13C8-PFOA - ISTD



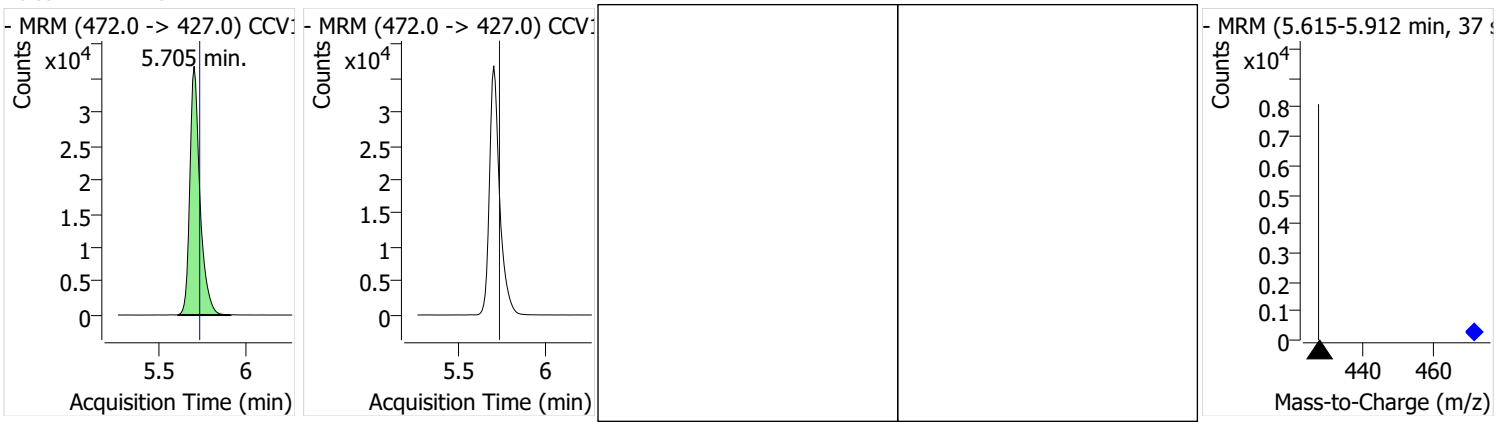
13C8-PFOS - ISTD



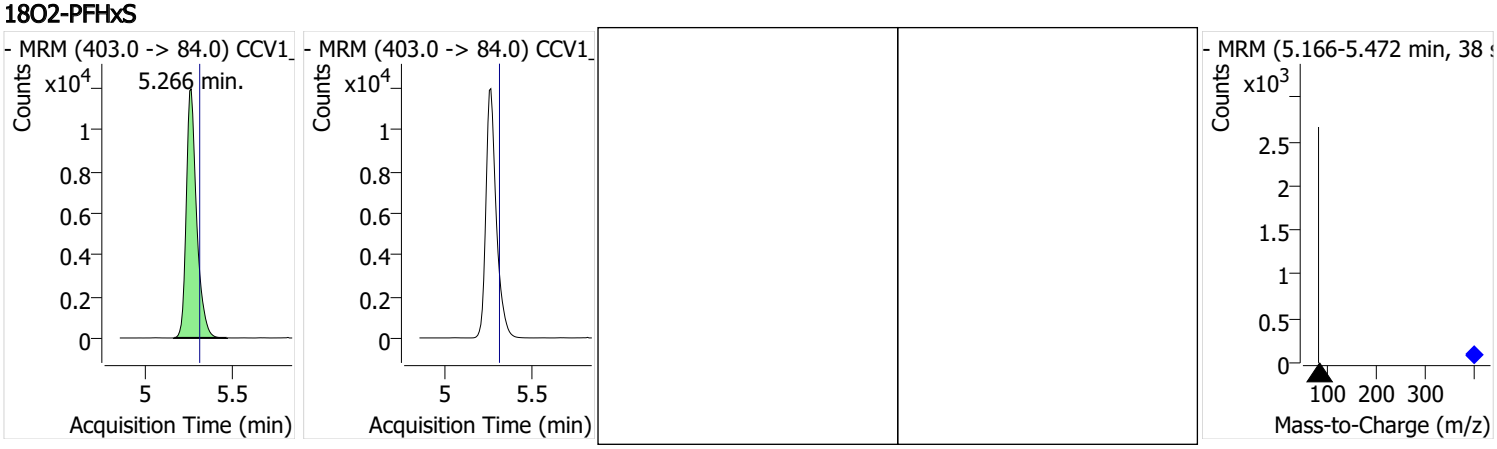
13C8-PFOSA - ISTD



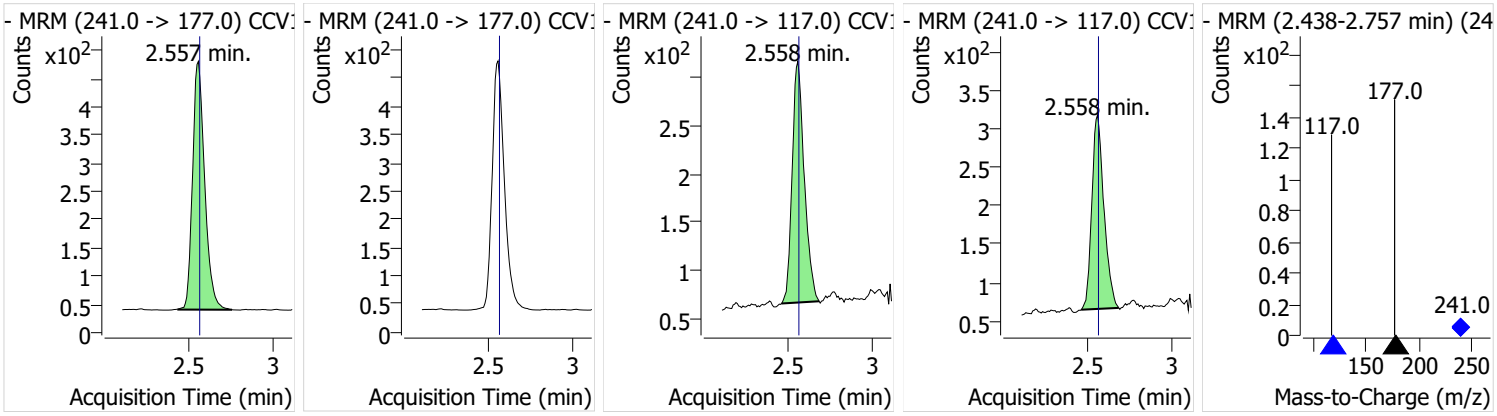
13C9-PFNA - ISTD



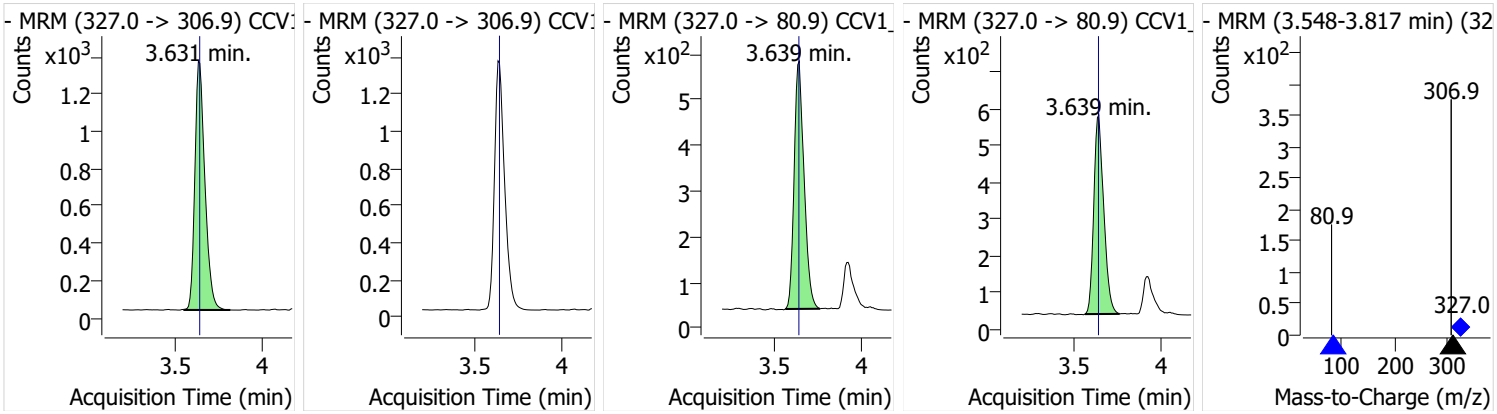
18O2-PFHxS



3:3FTCA



4:2FTS



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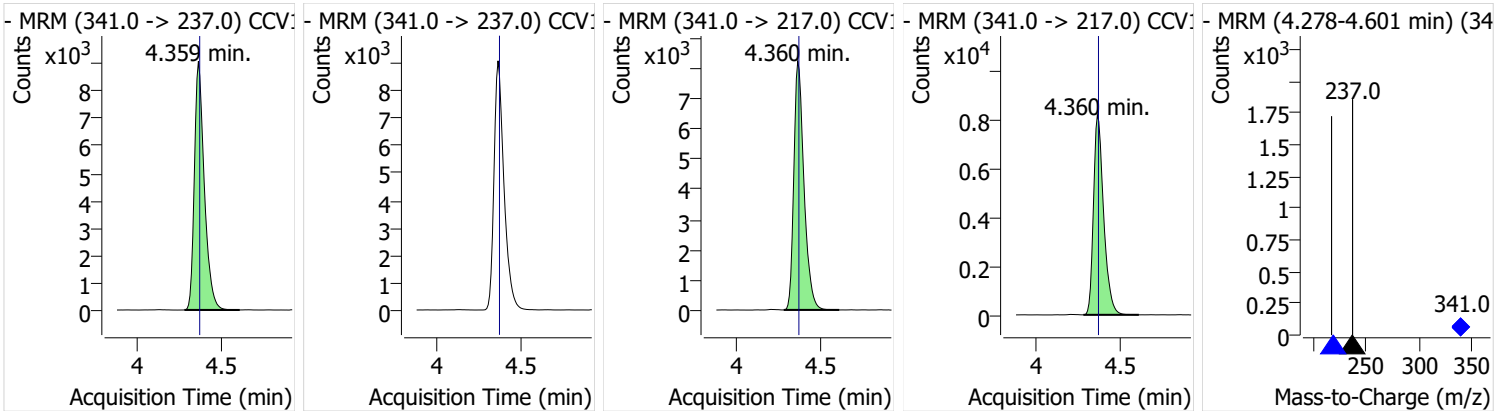
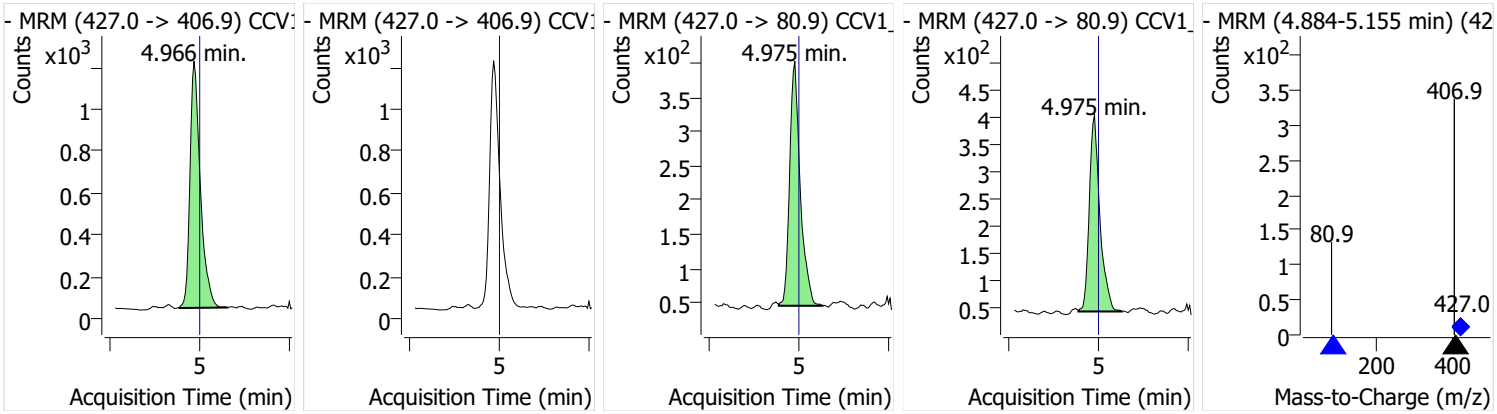
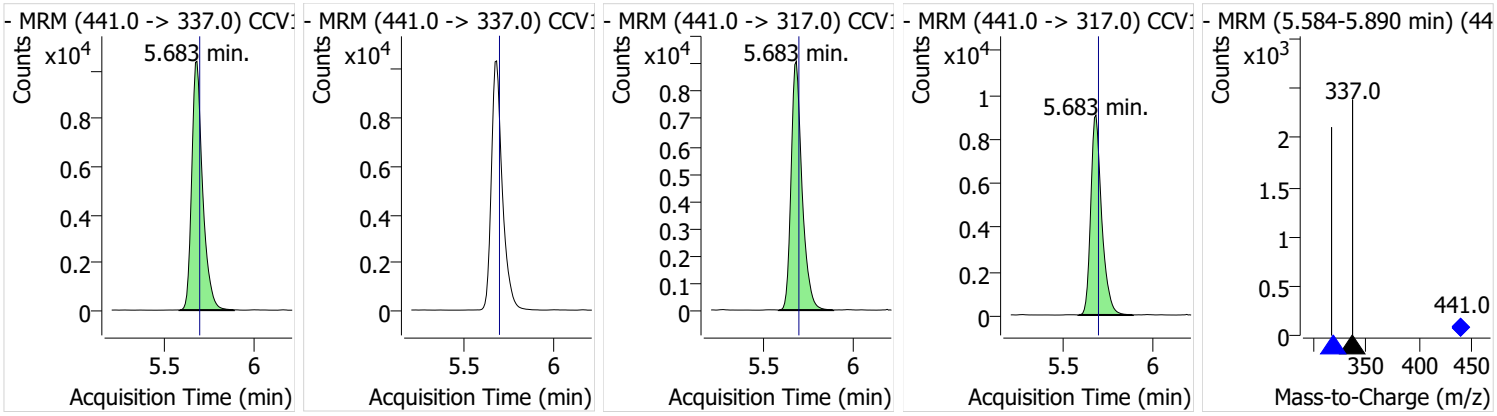


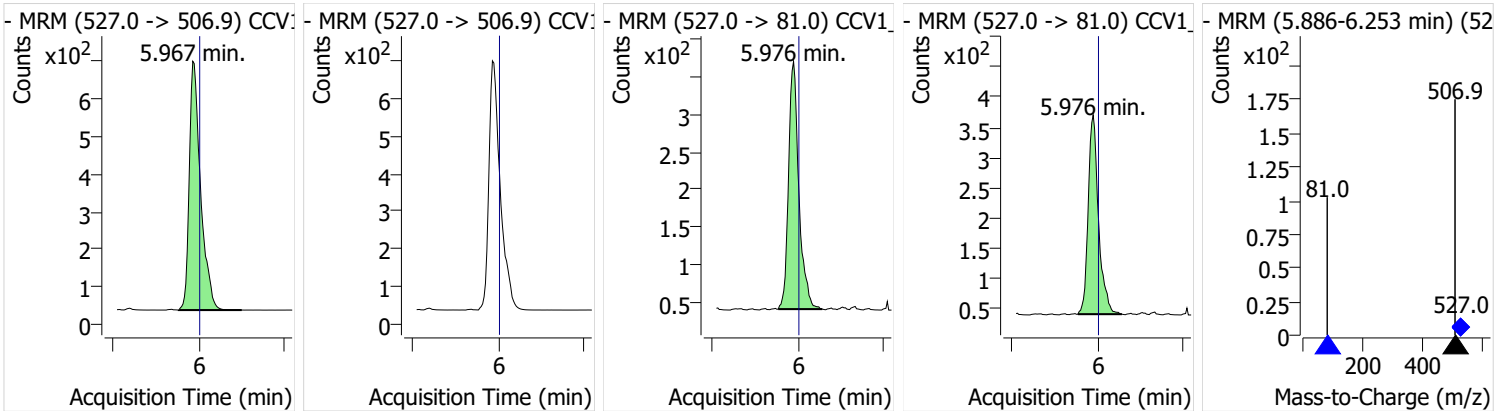
6:2FTS



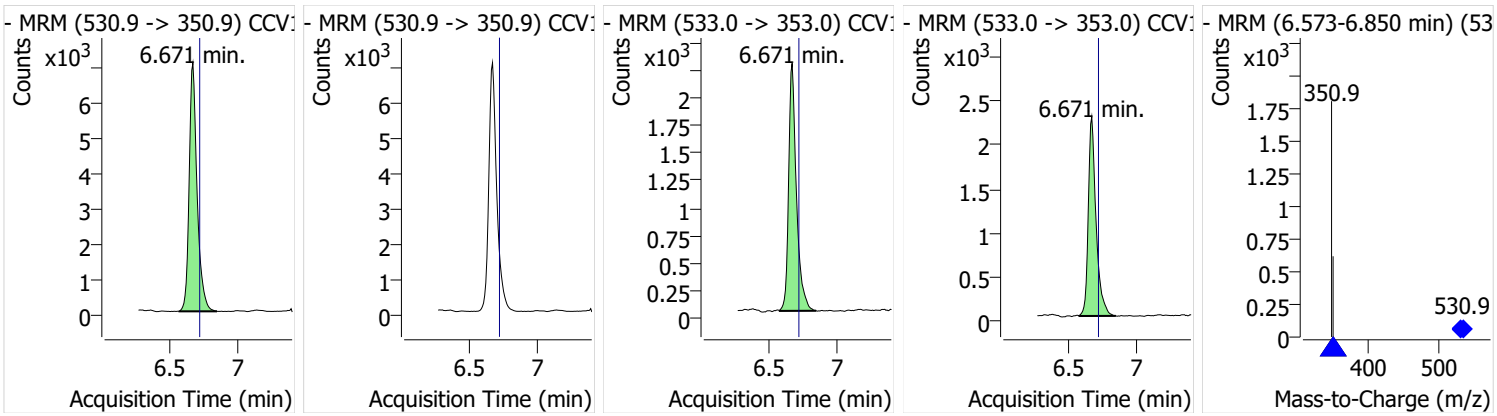
7:3FTCA



8:2FTS



9Cl-PF3ONS



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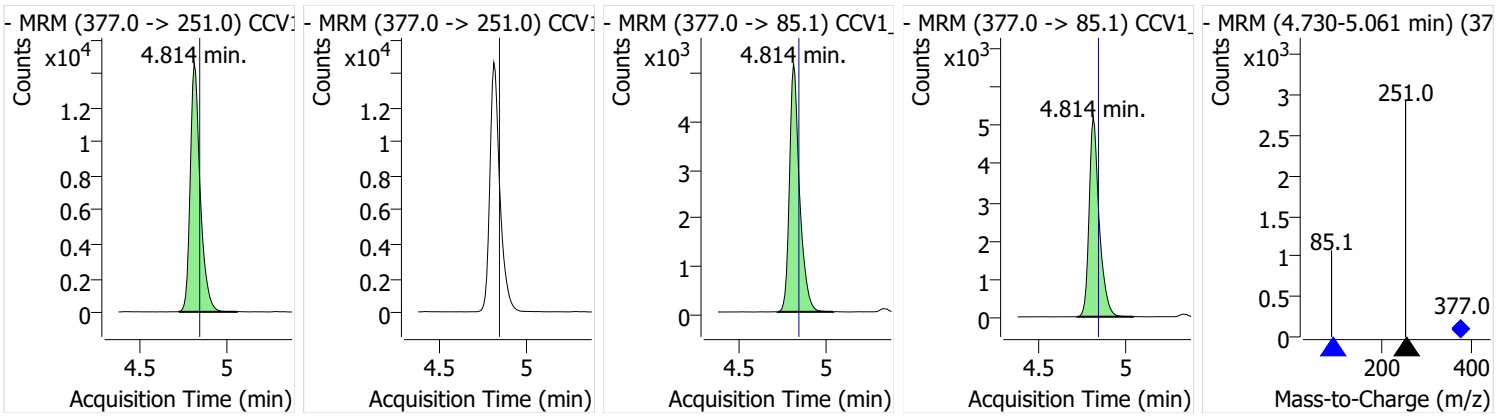

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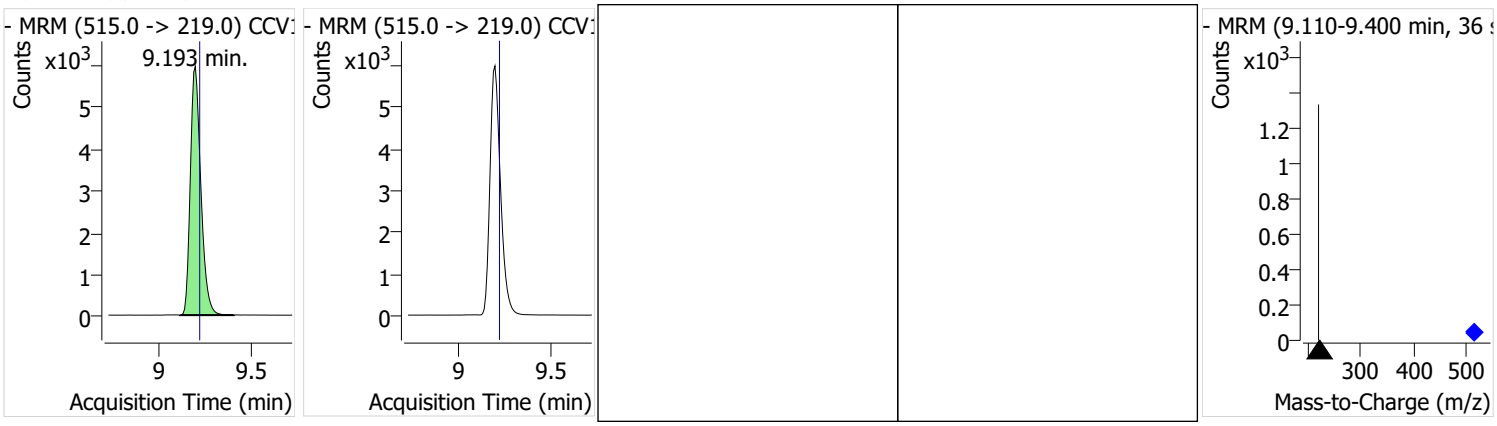

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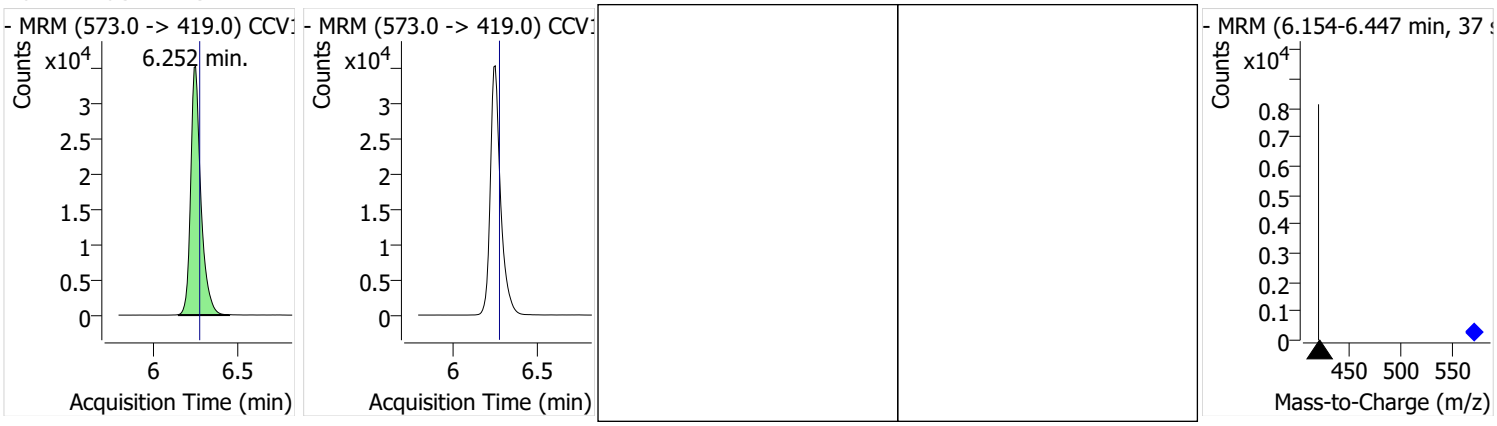

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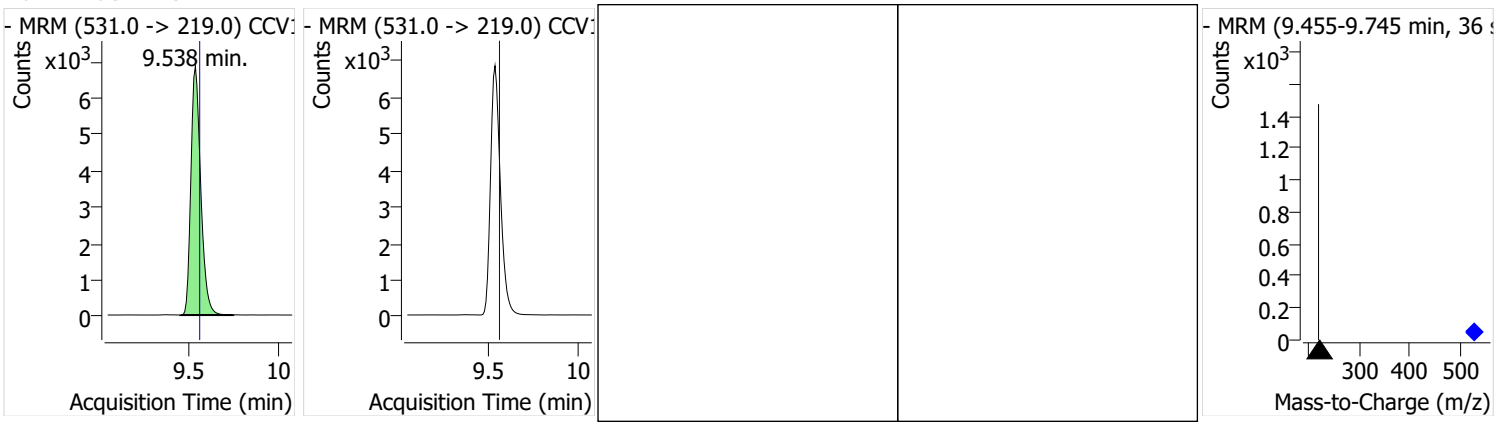

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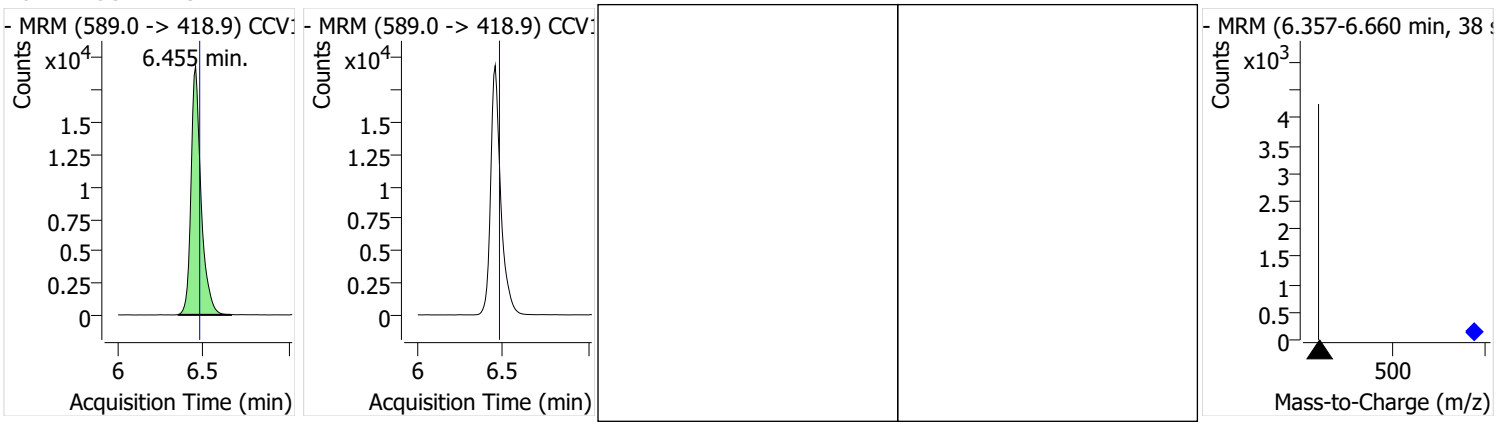

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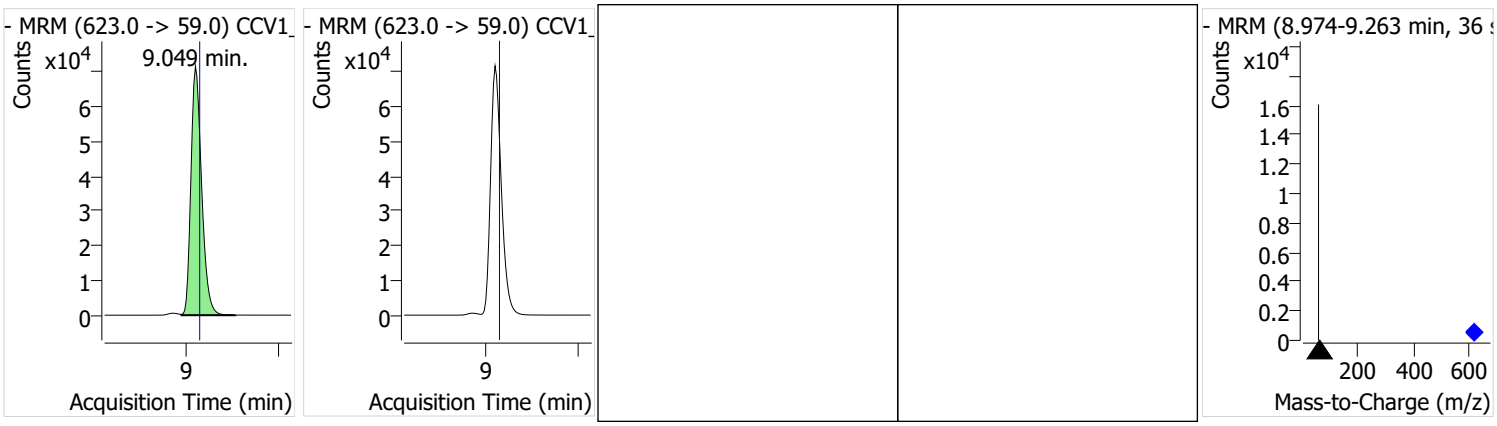

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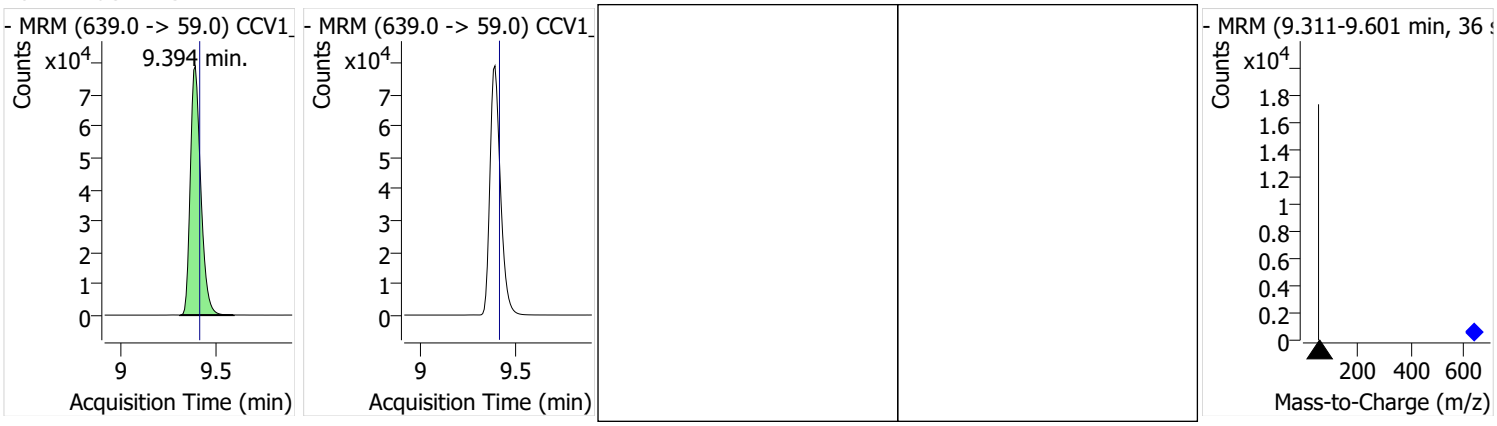

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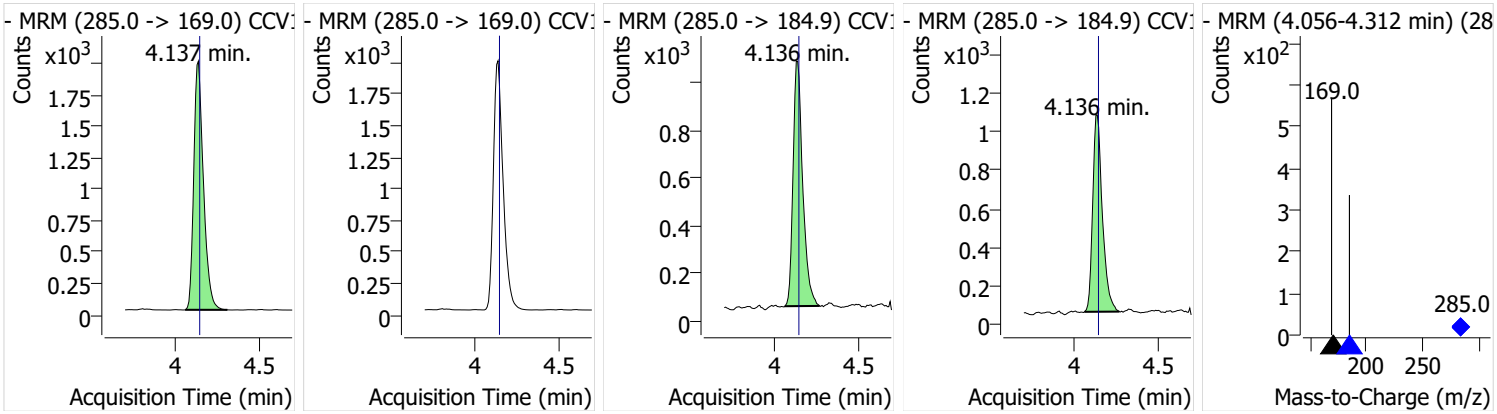

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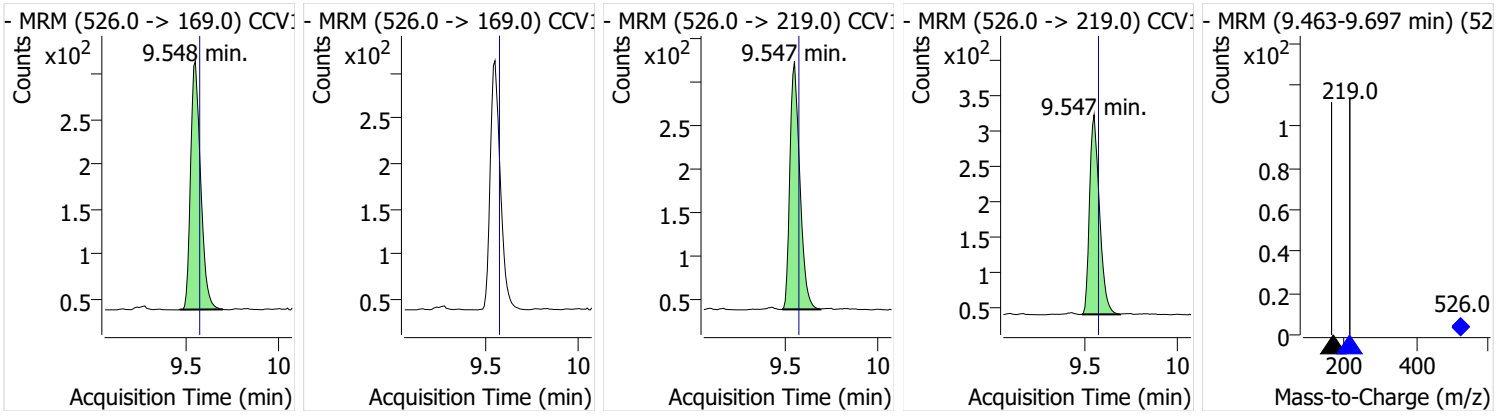

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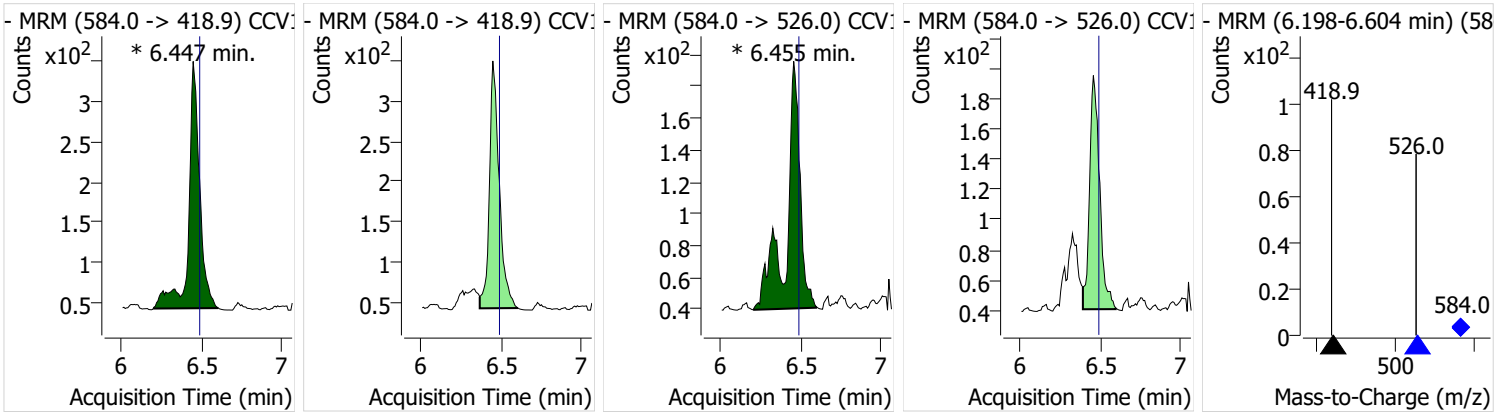

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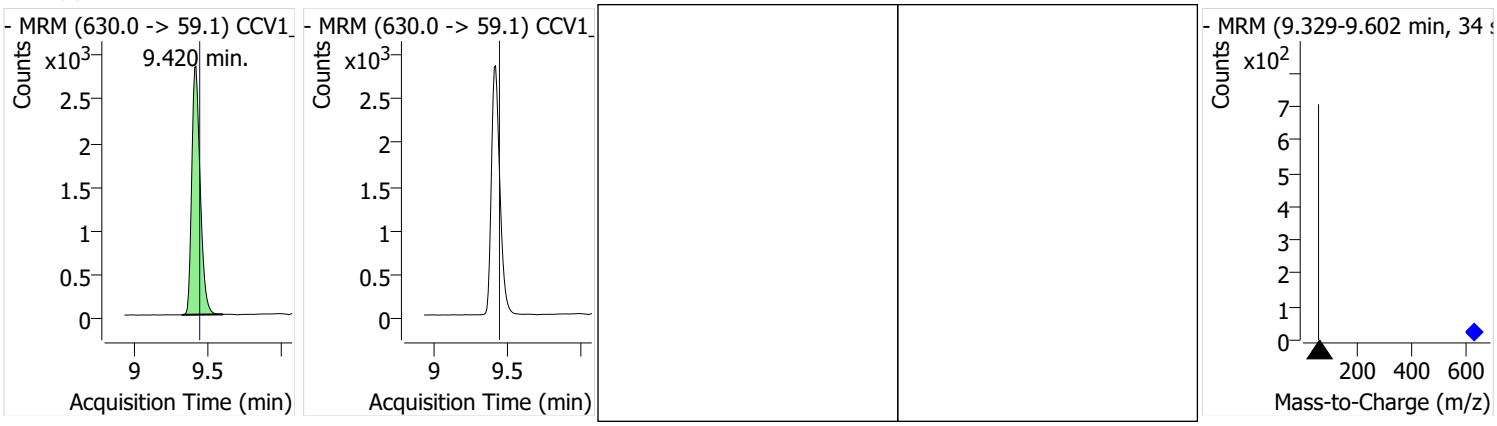

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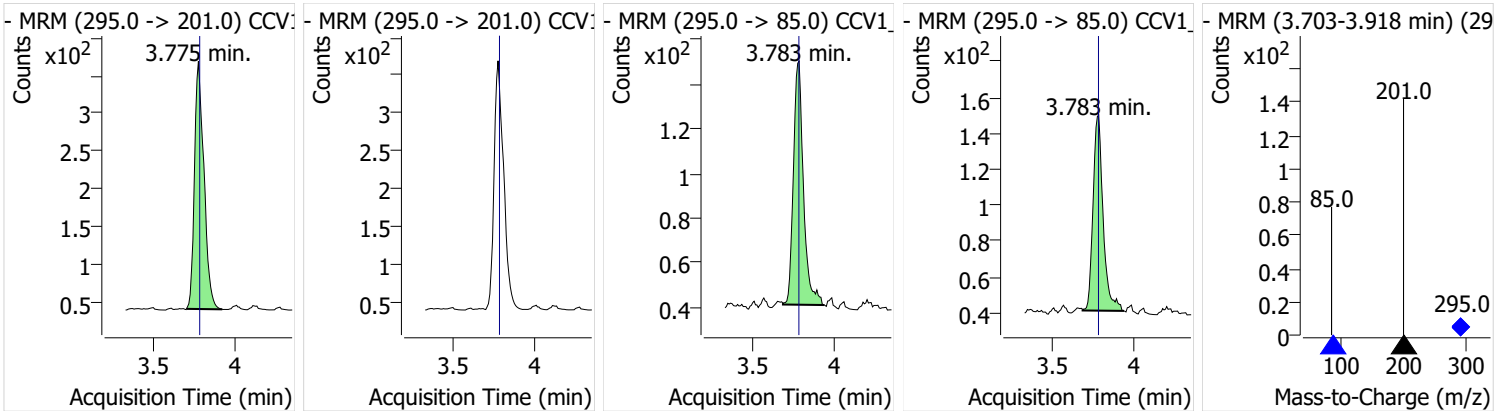

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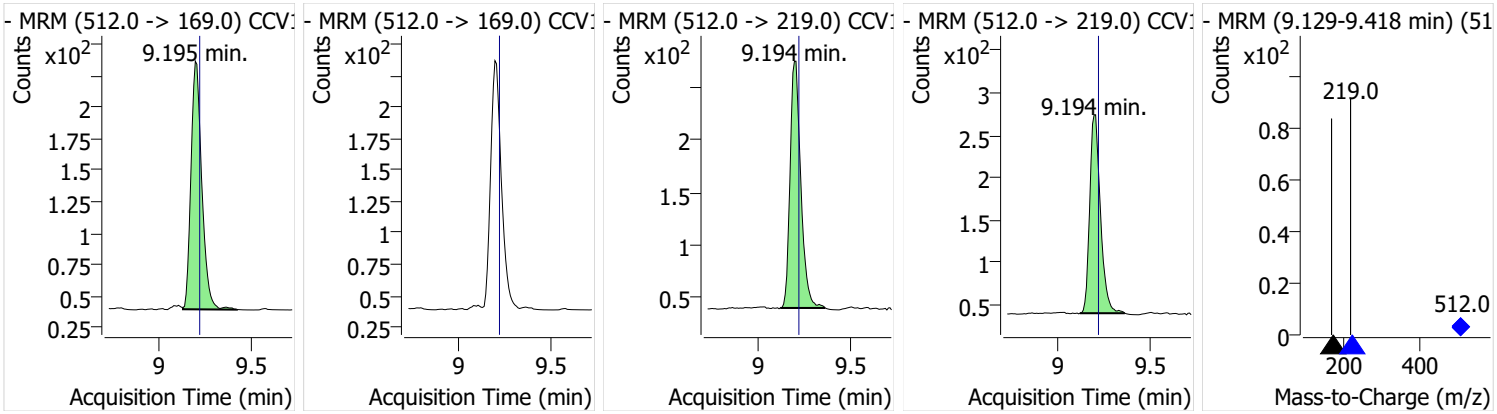

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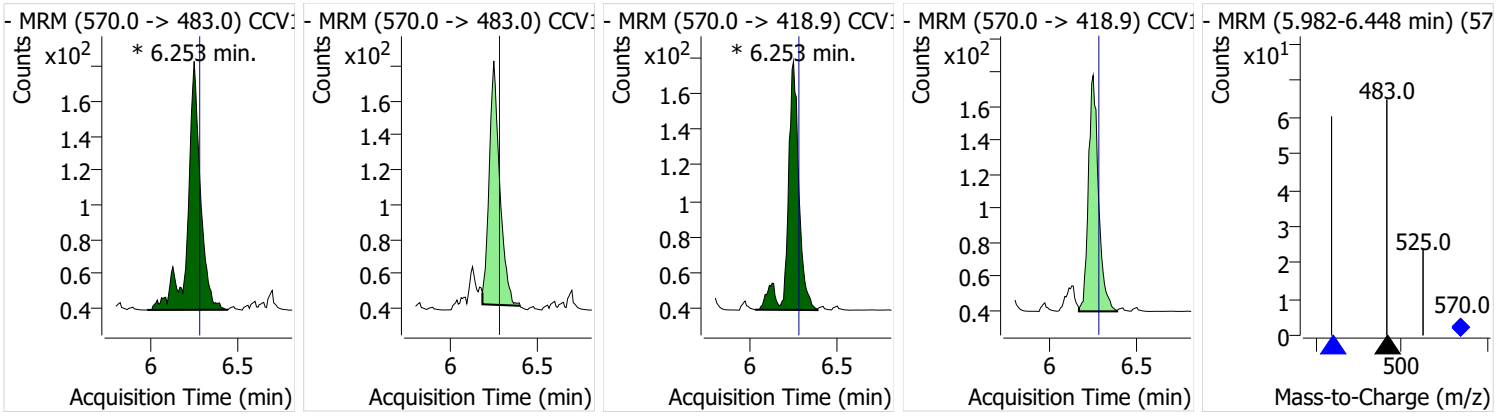

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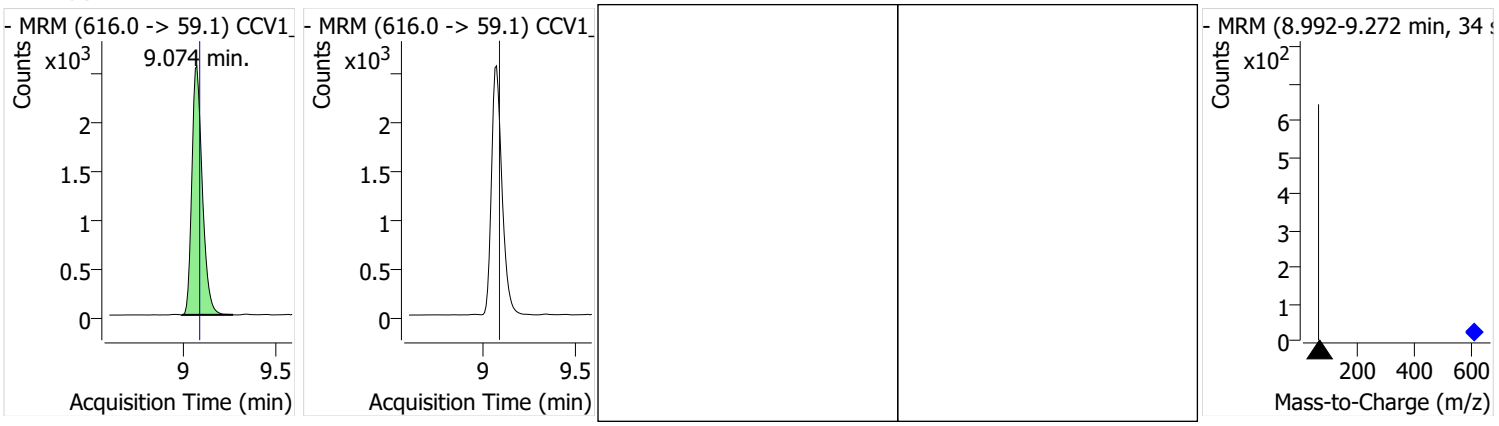

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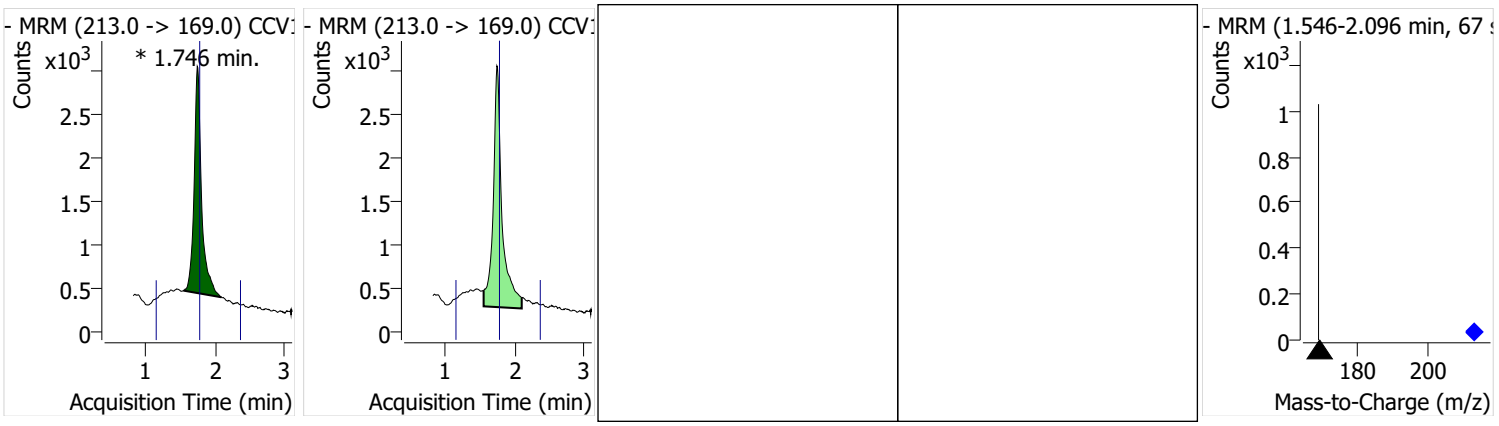

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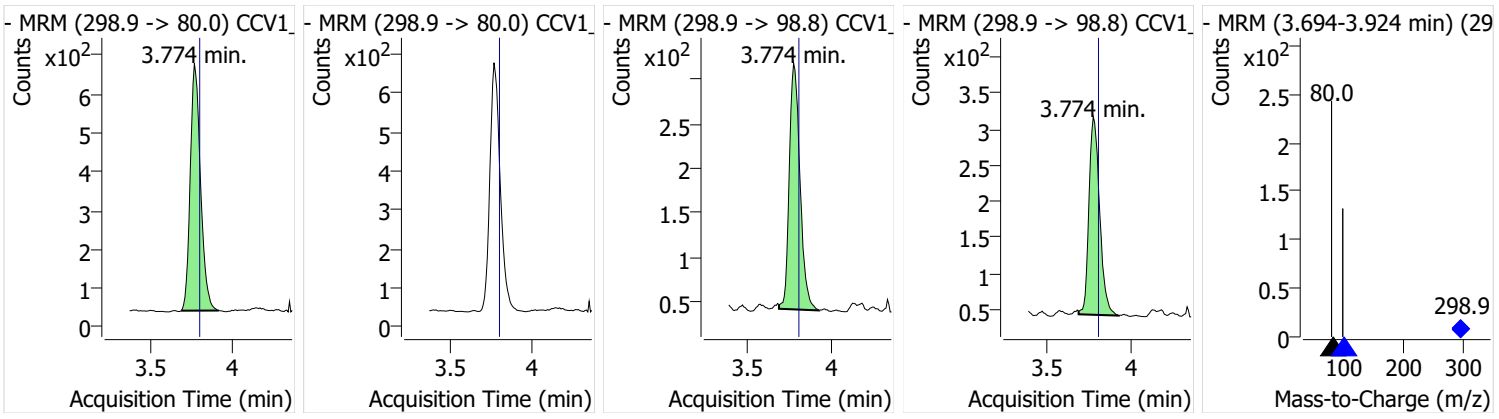

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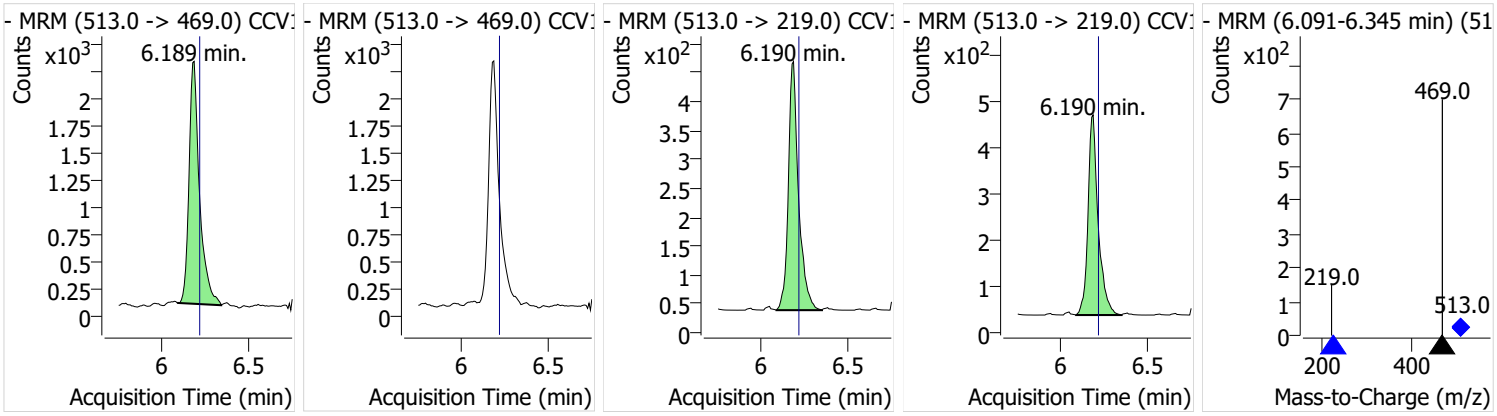

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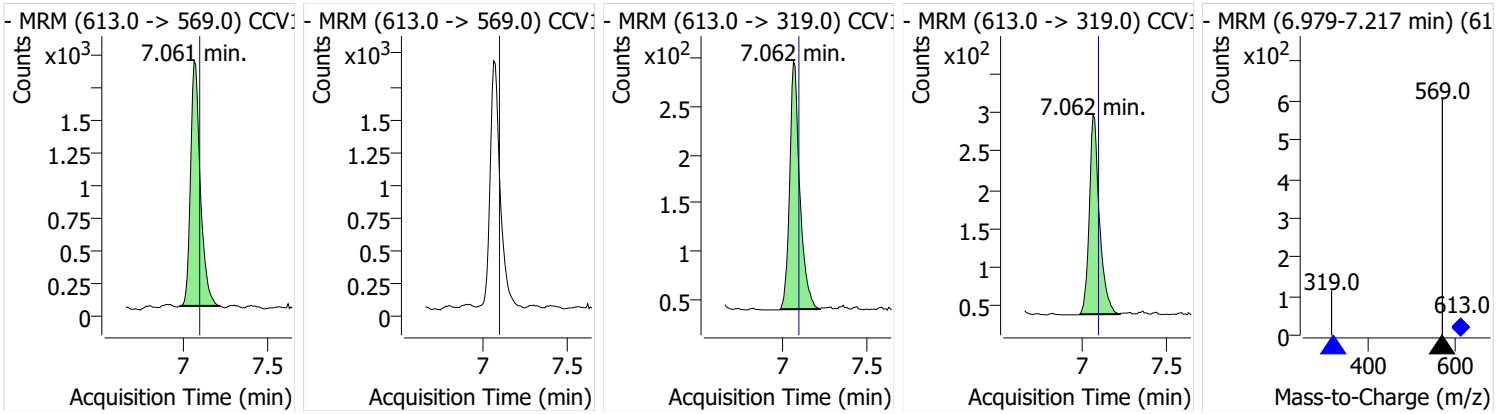

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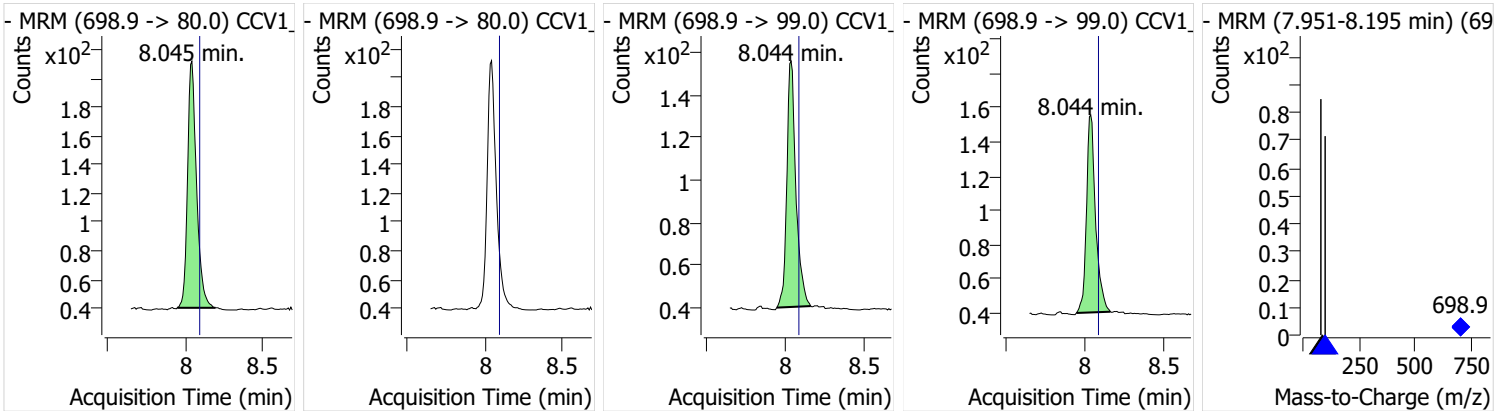

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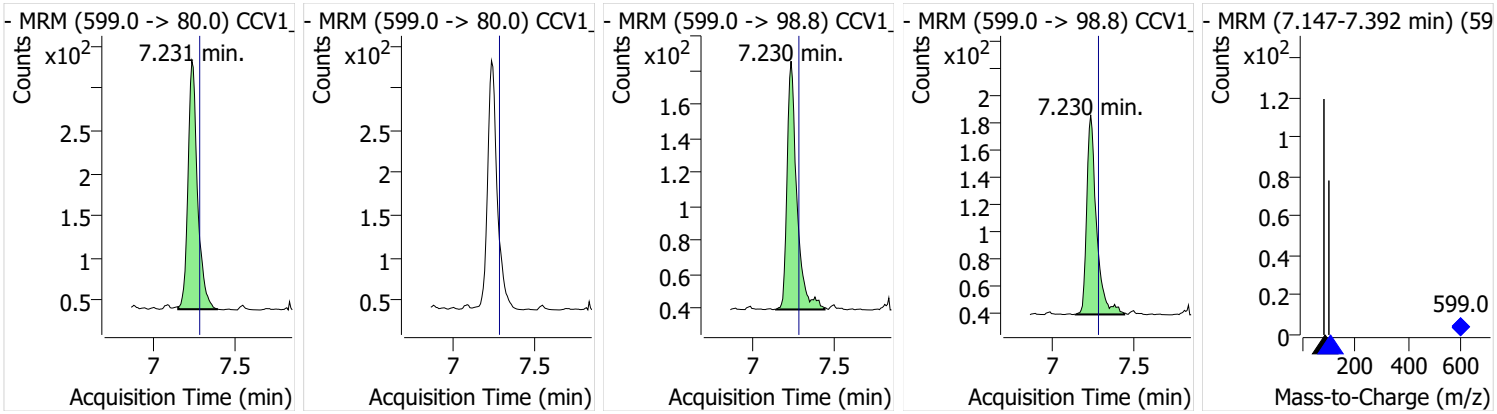

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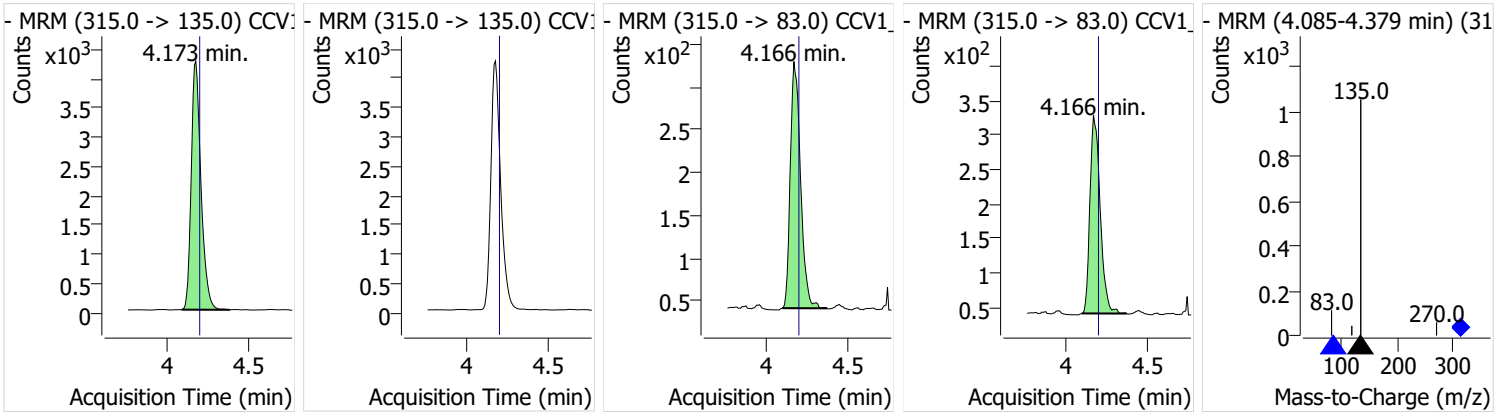

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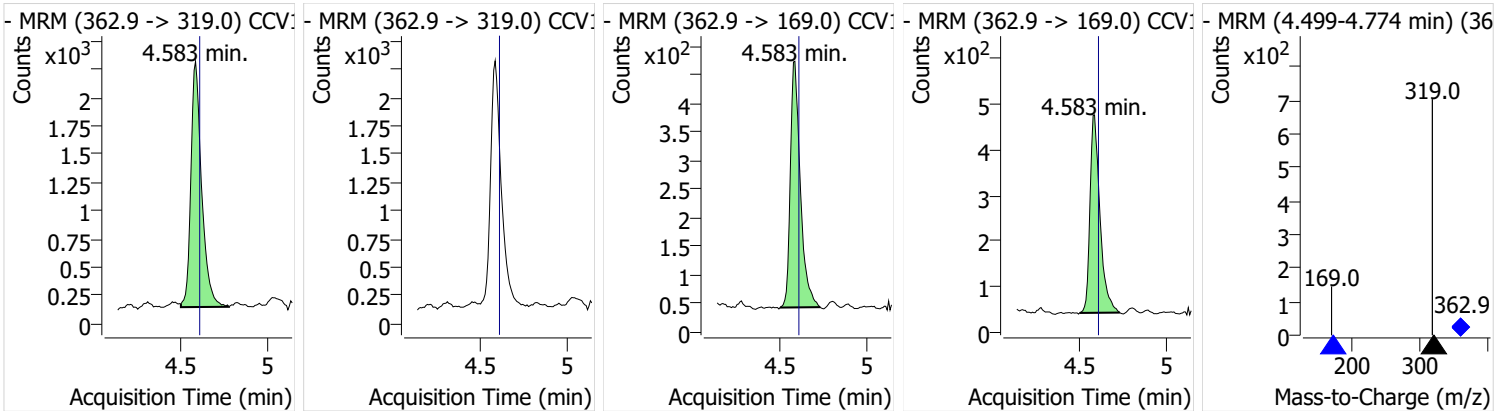

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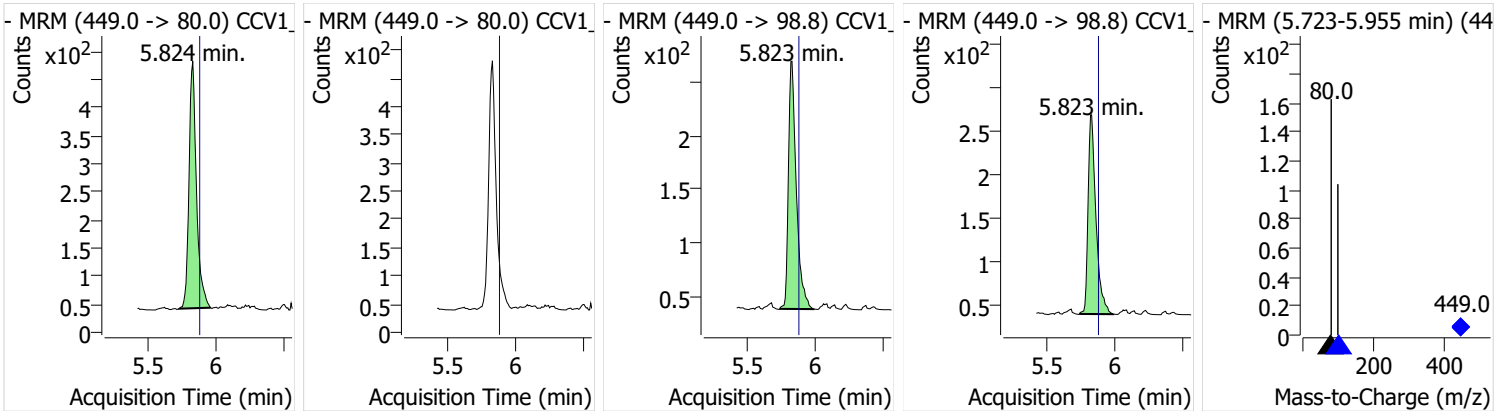

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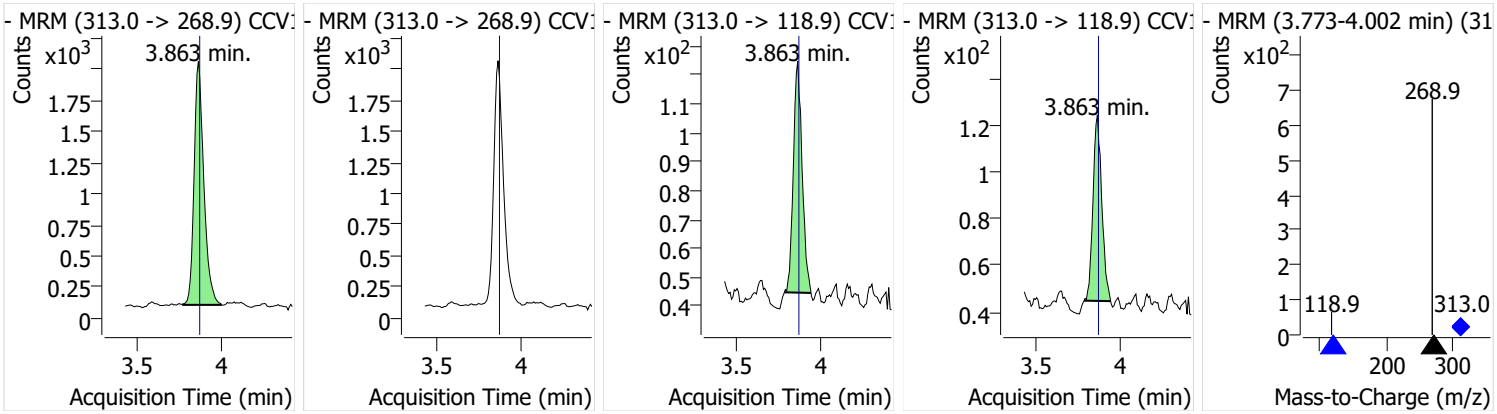

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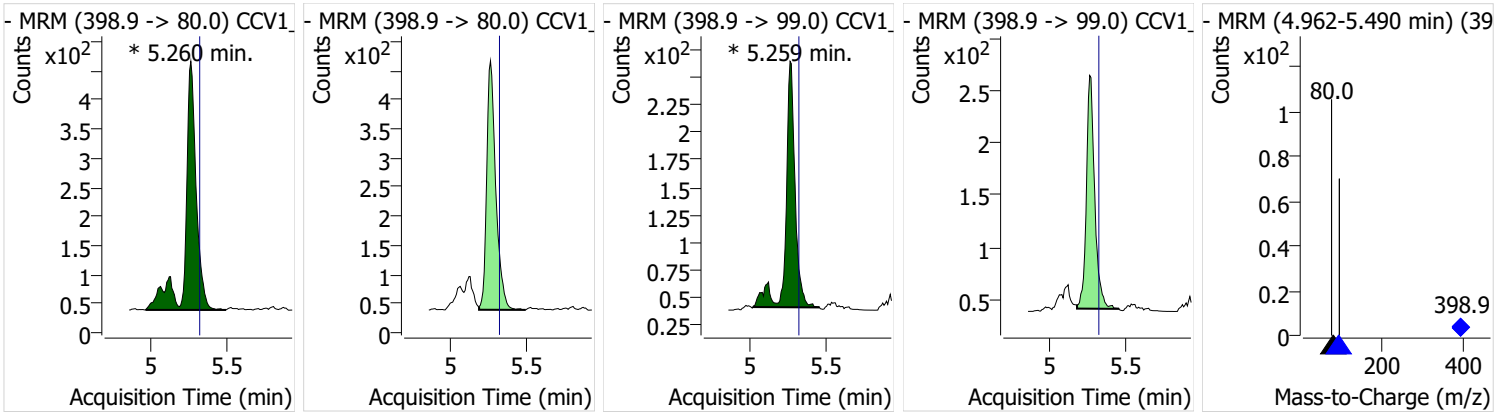

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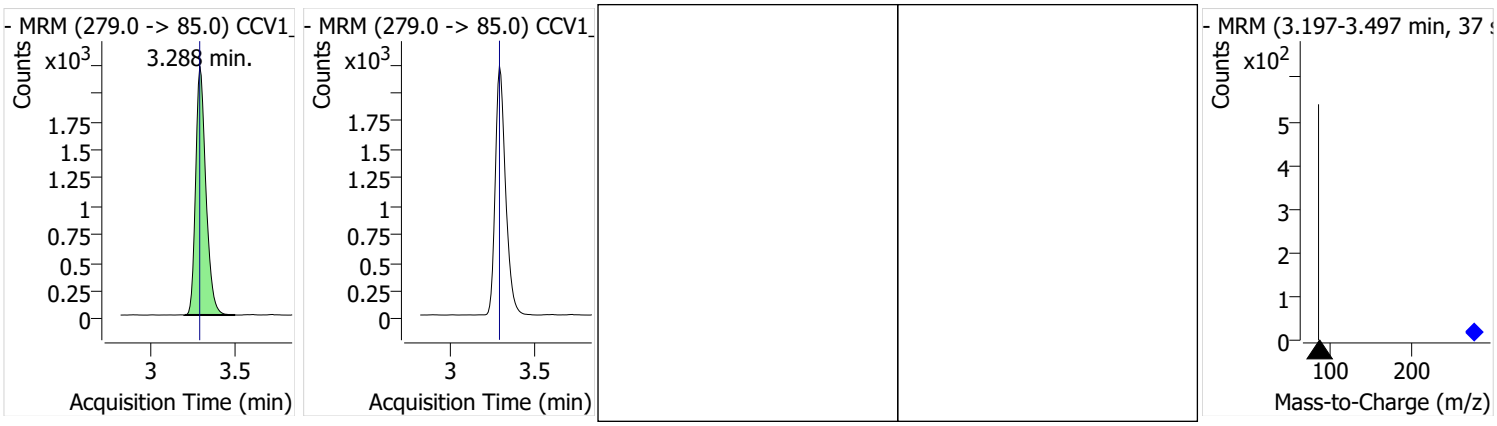

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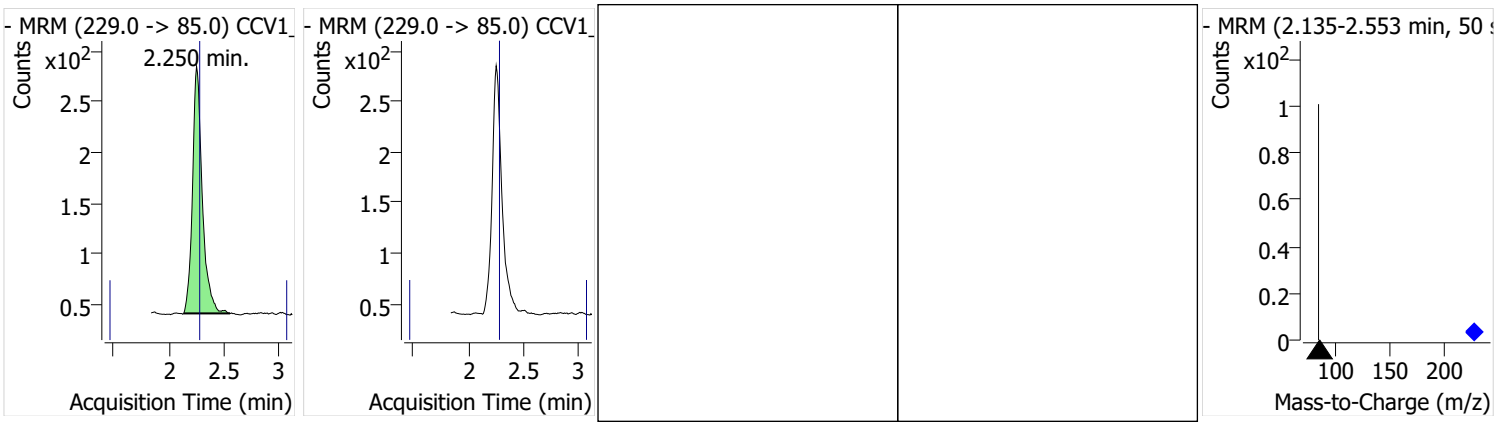

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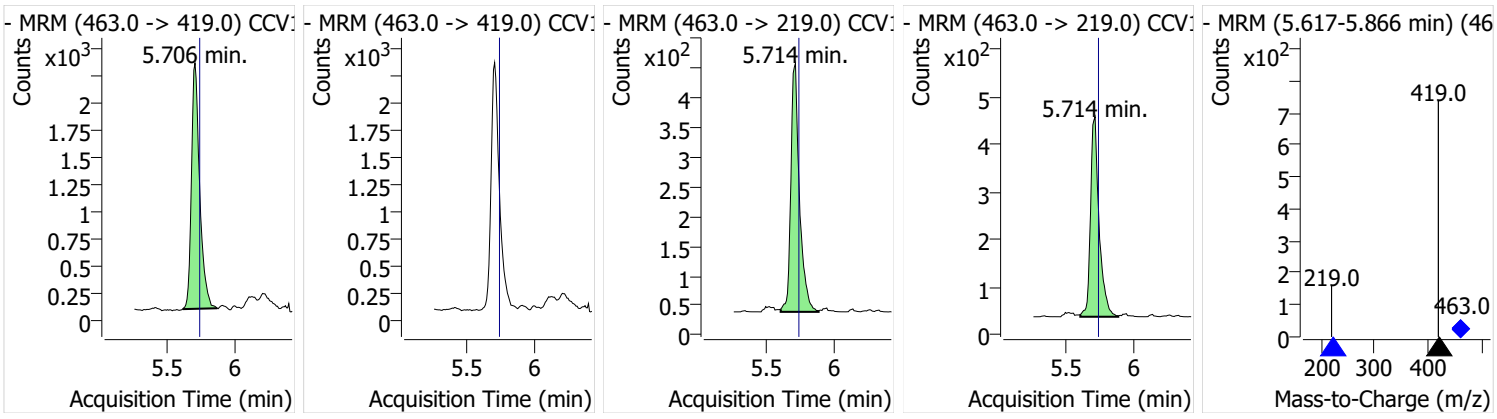

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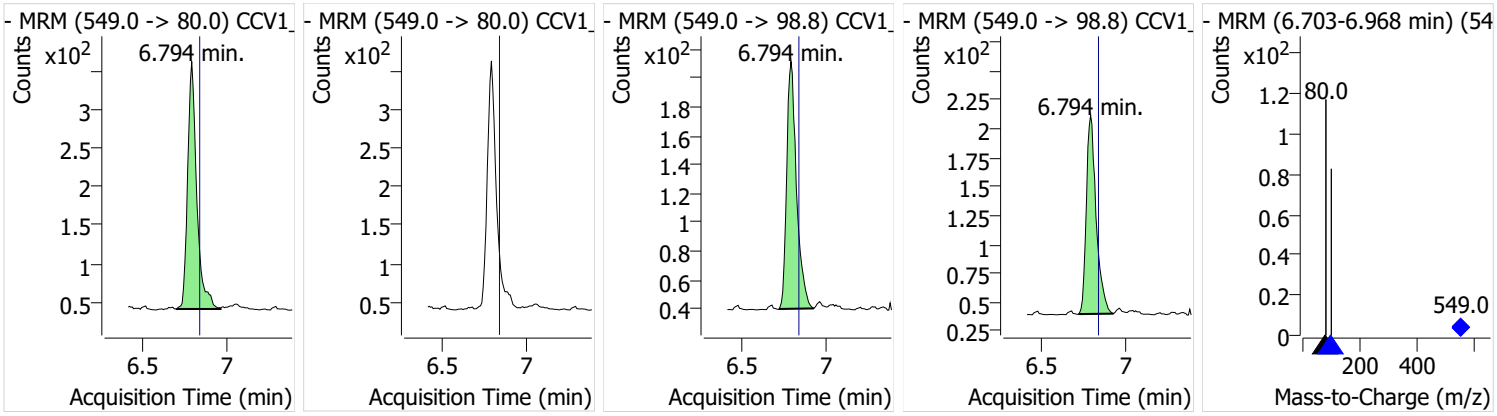

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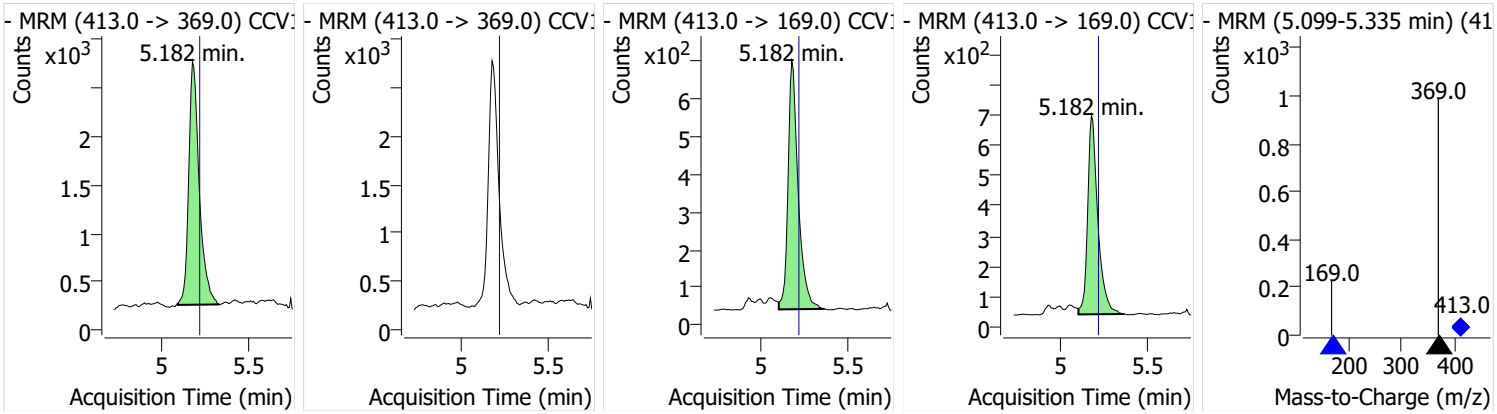

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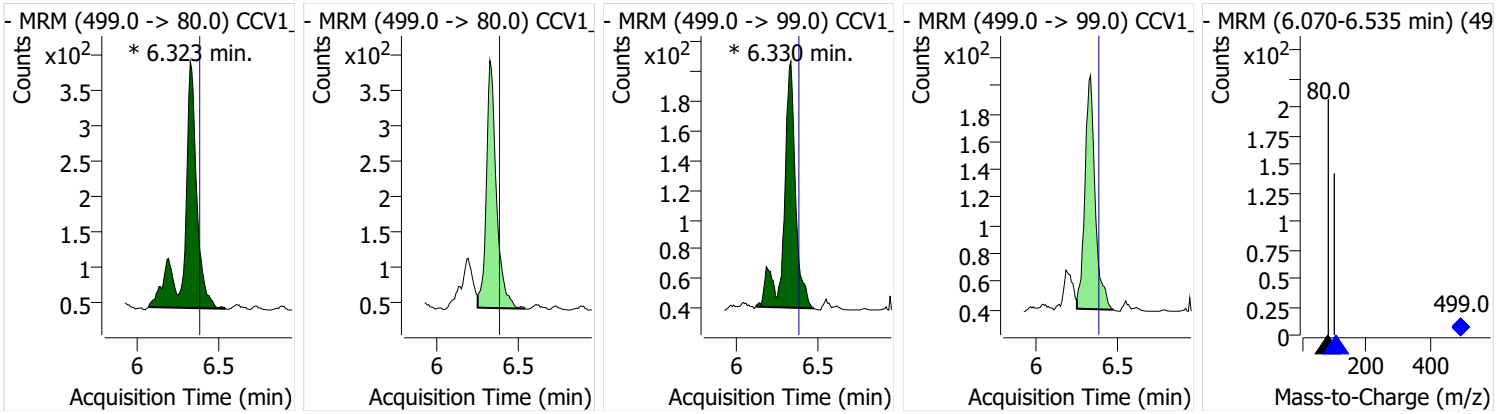

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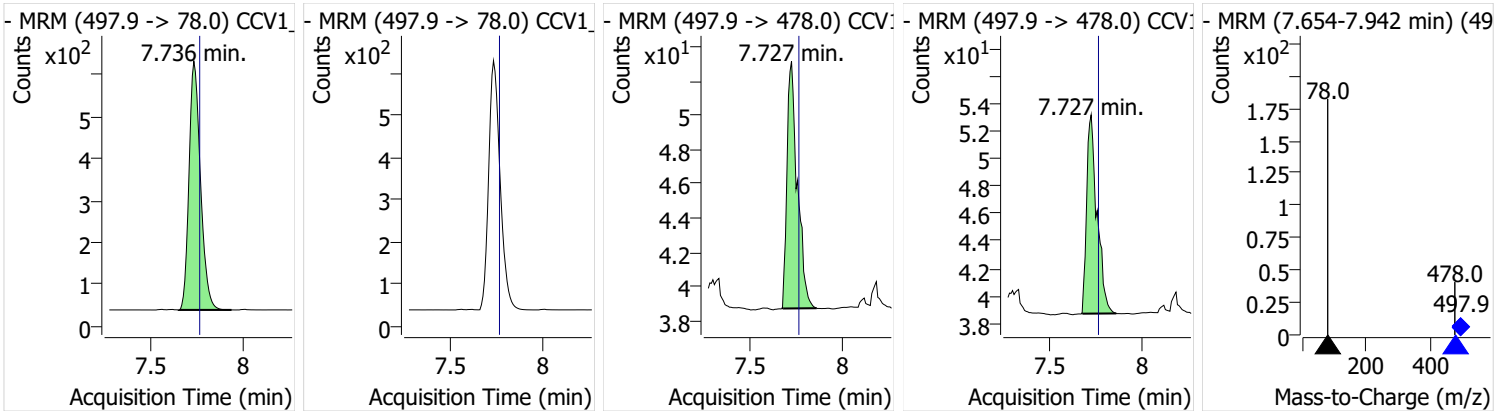

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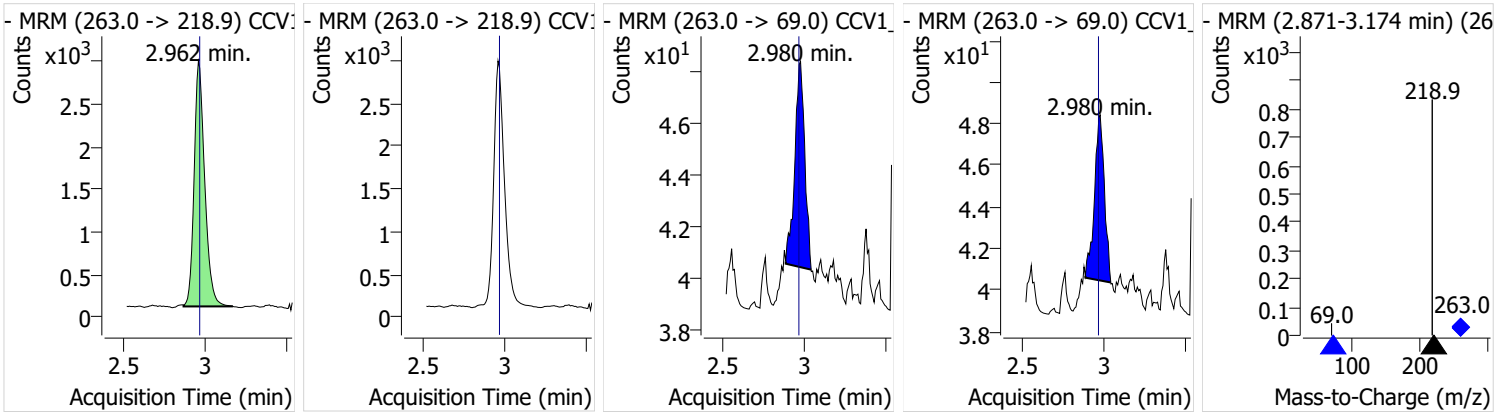

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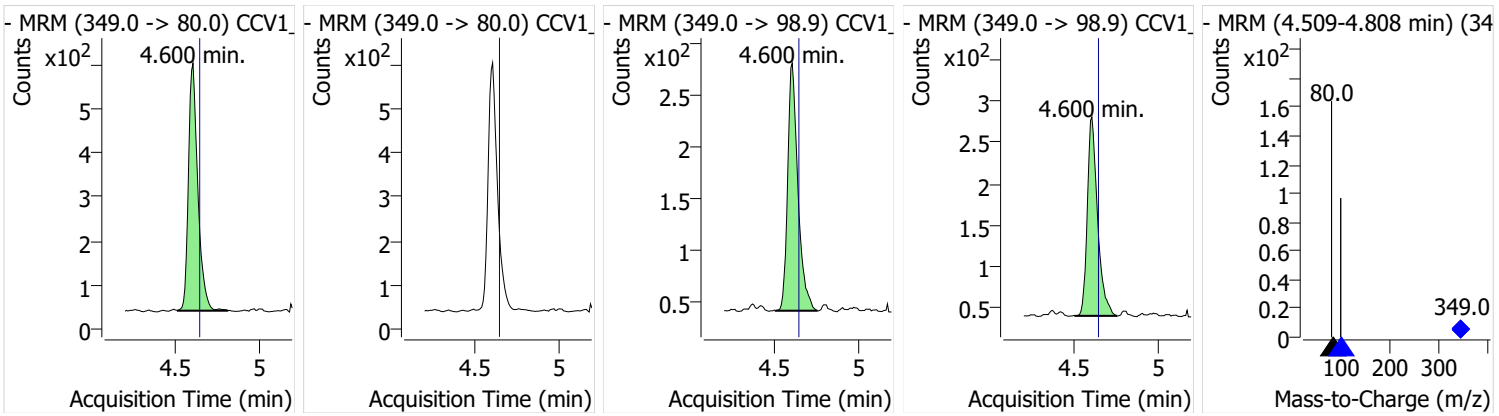

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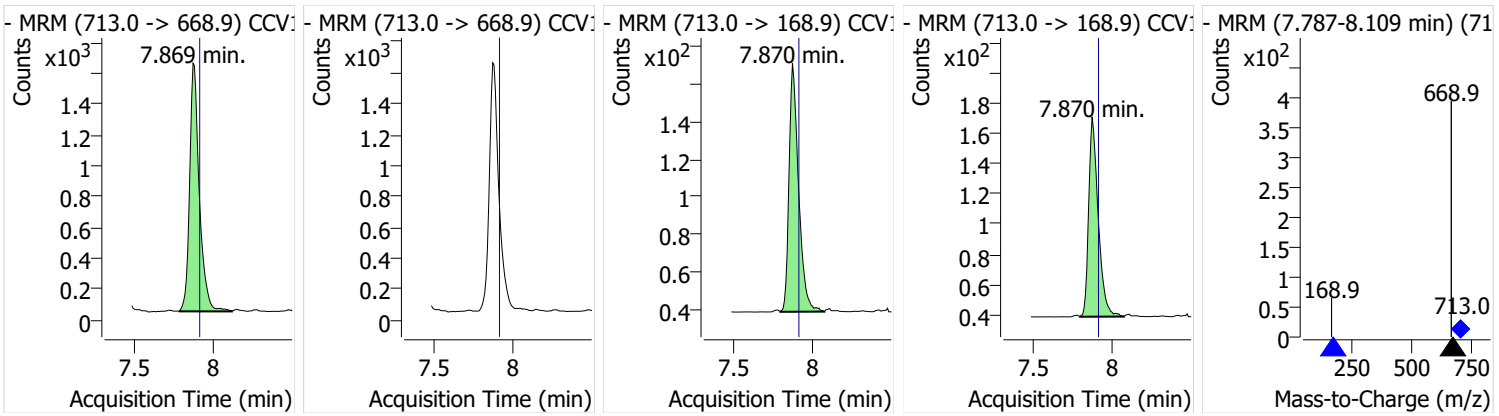

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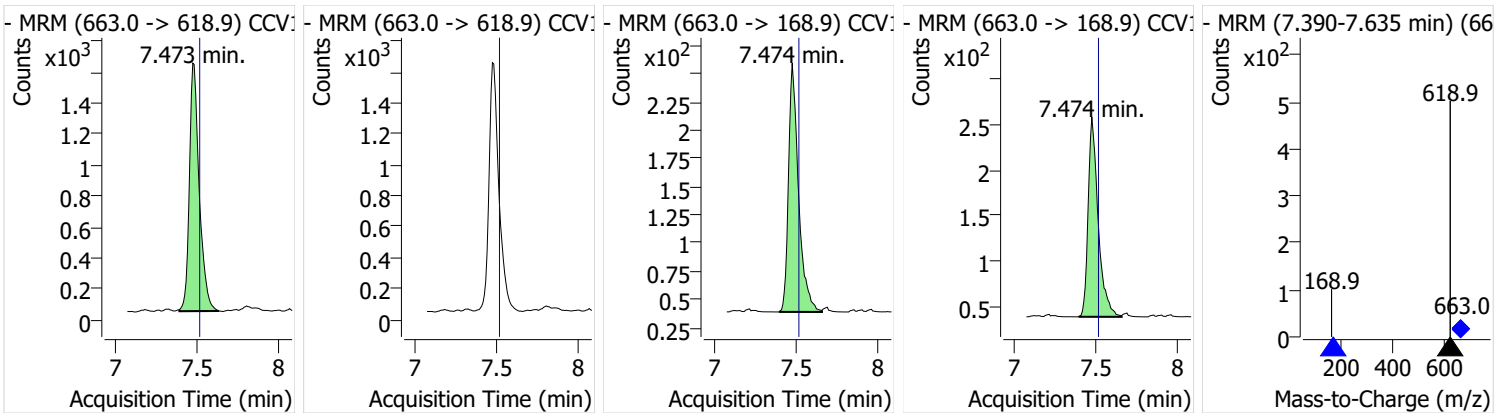

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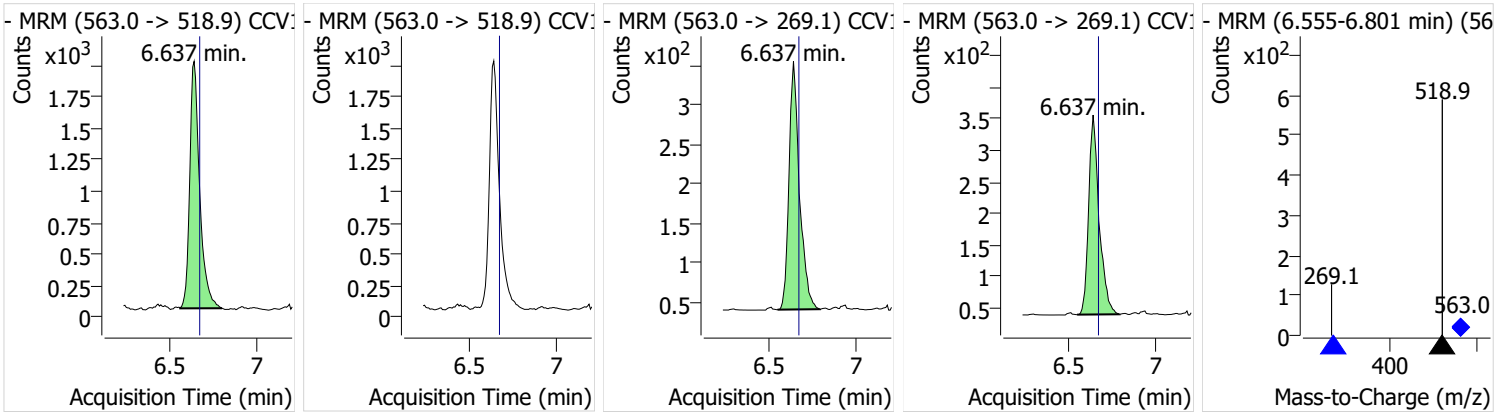

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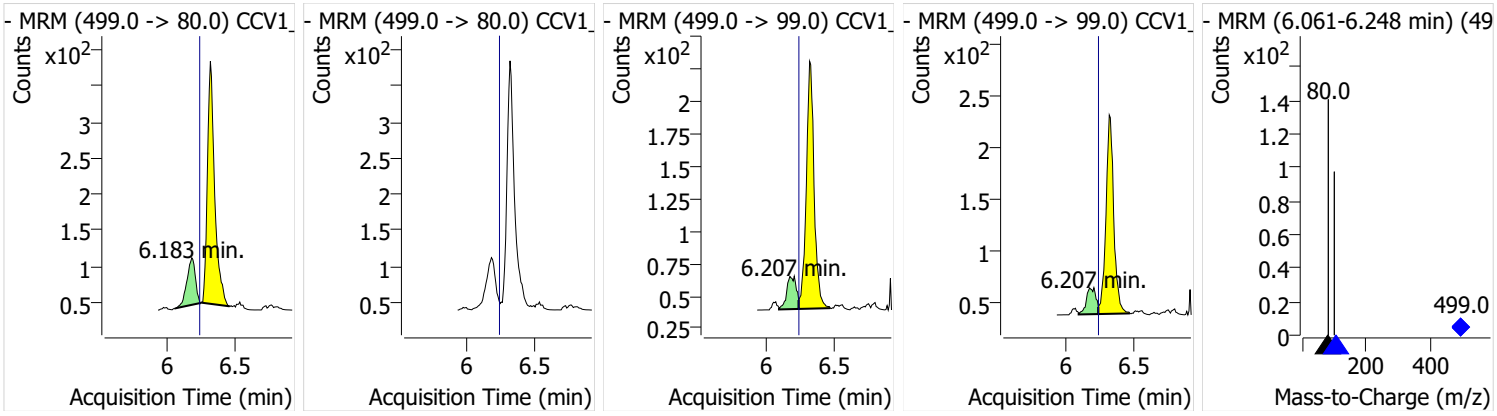

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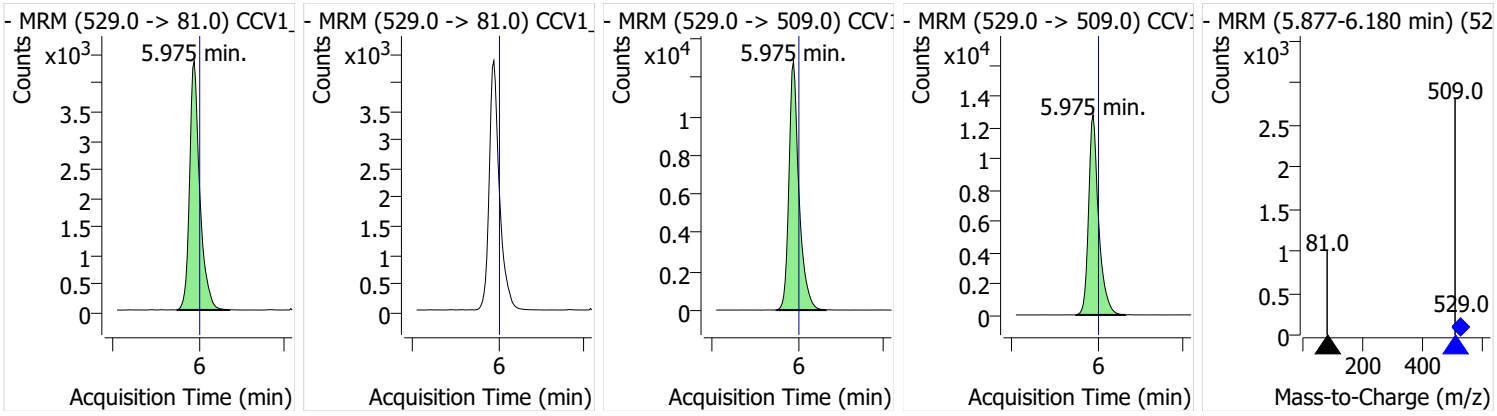

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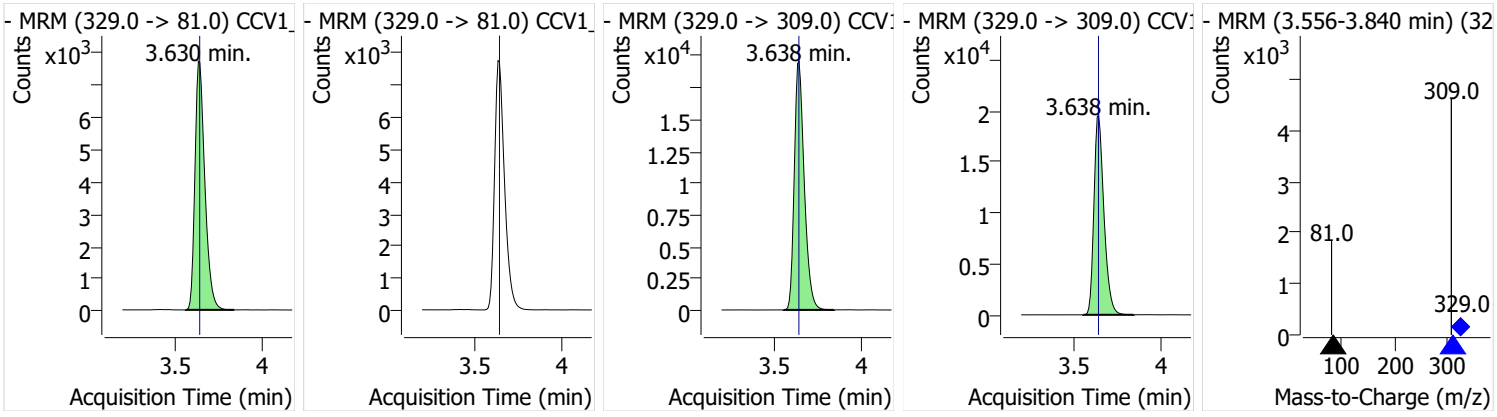

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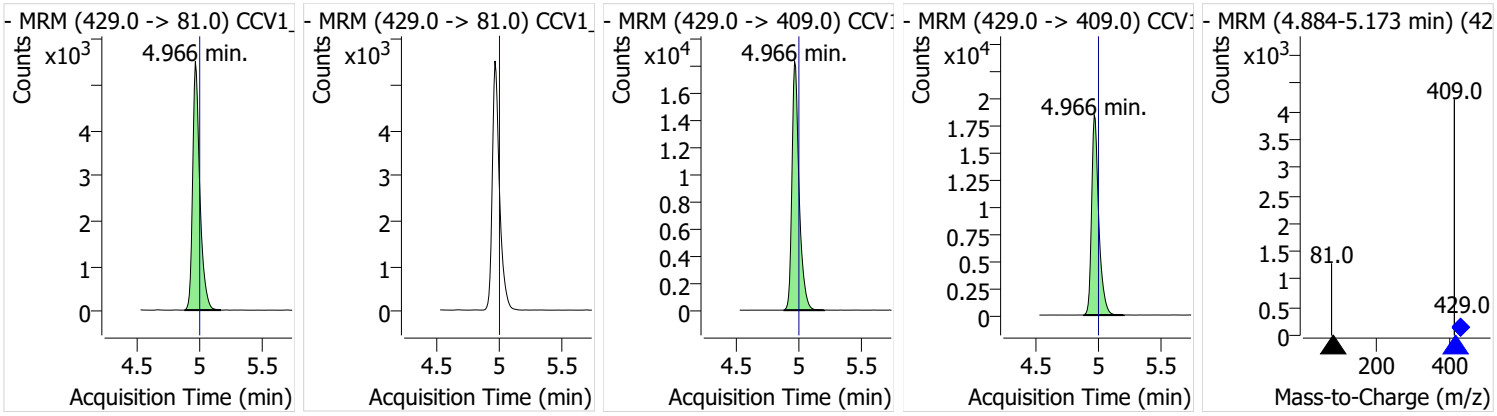

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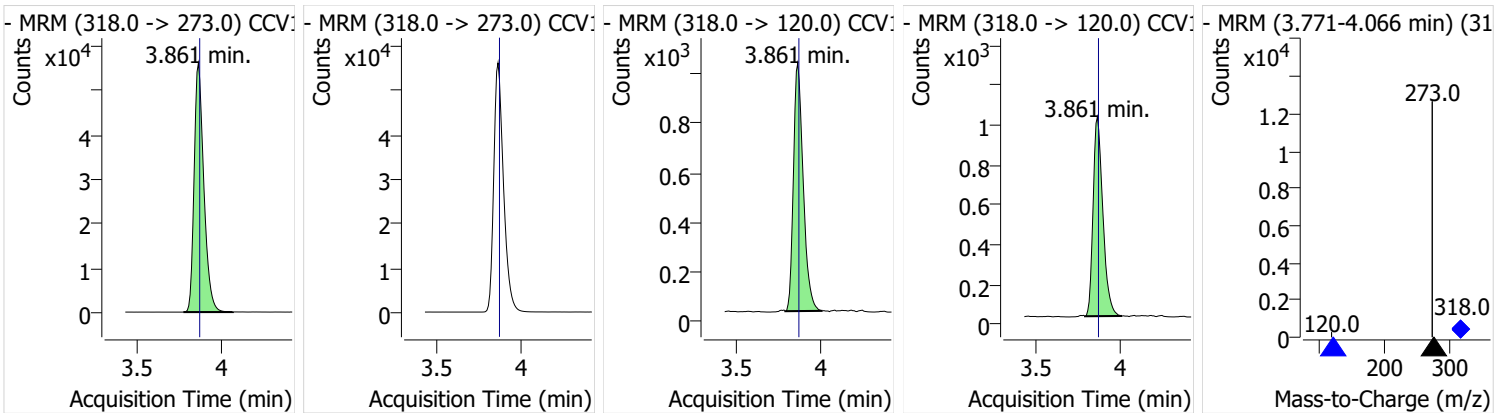

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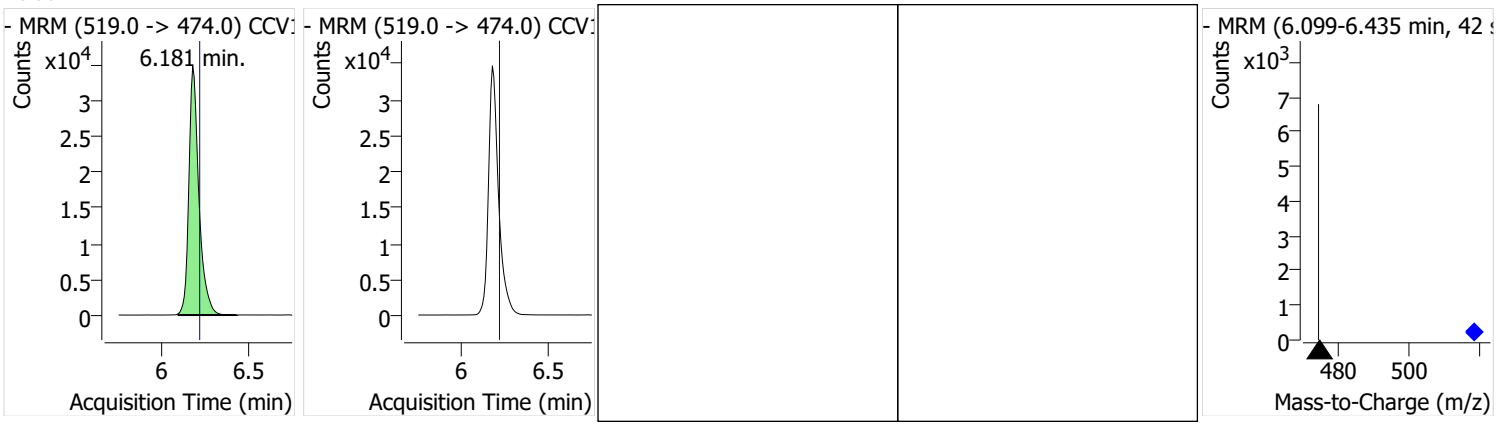

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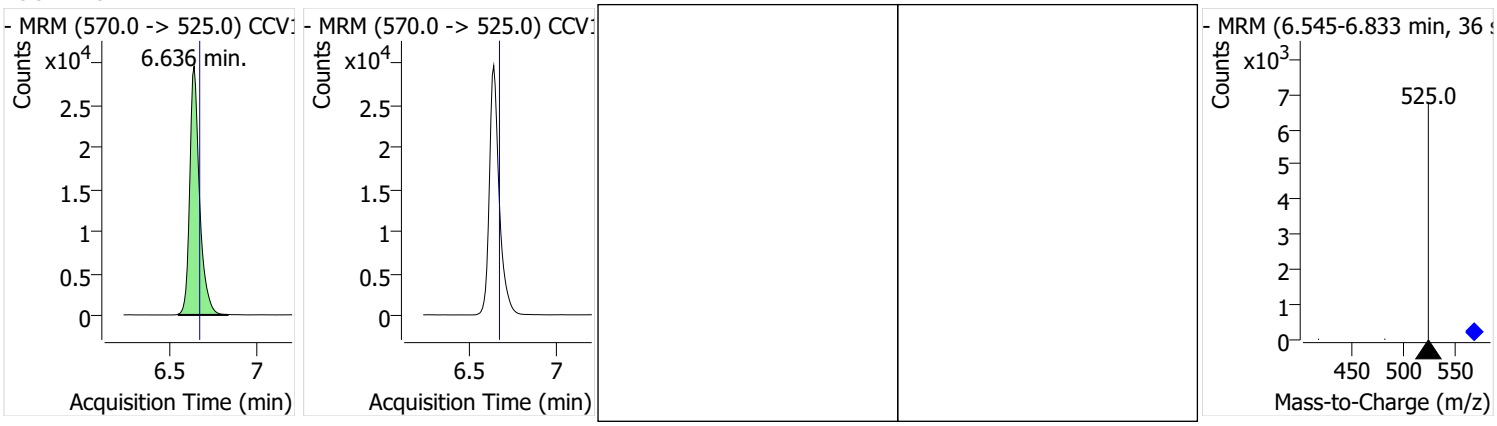

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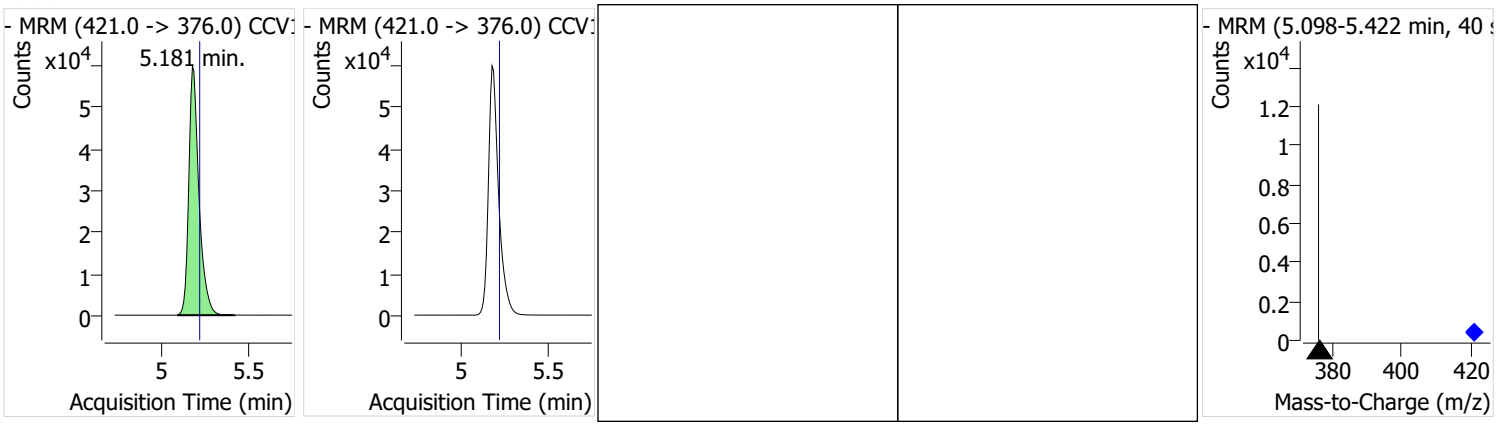

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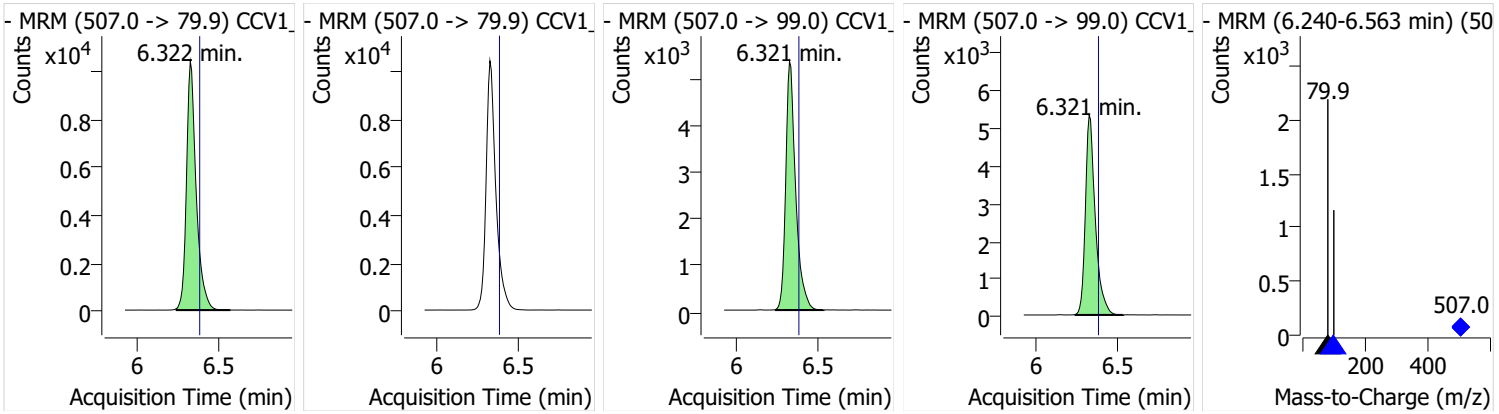

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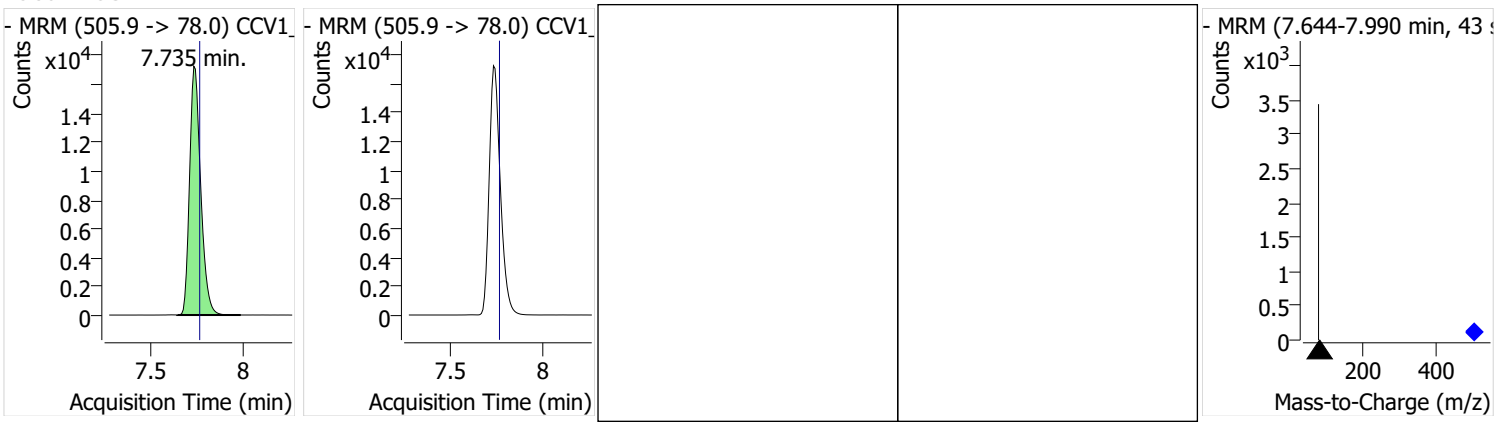

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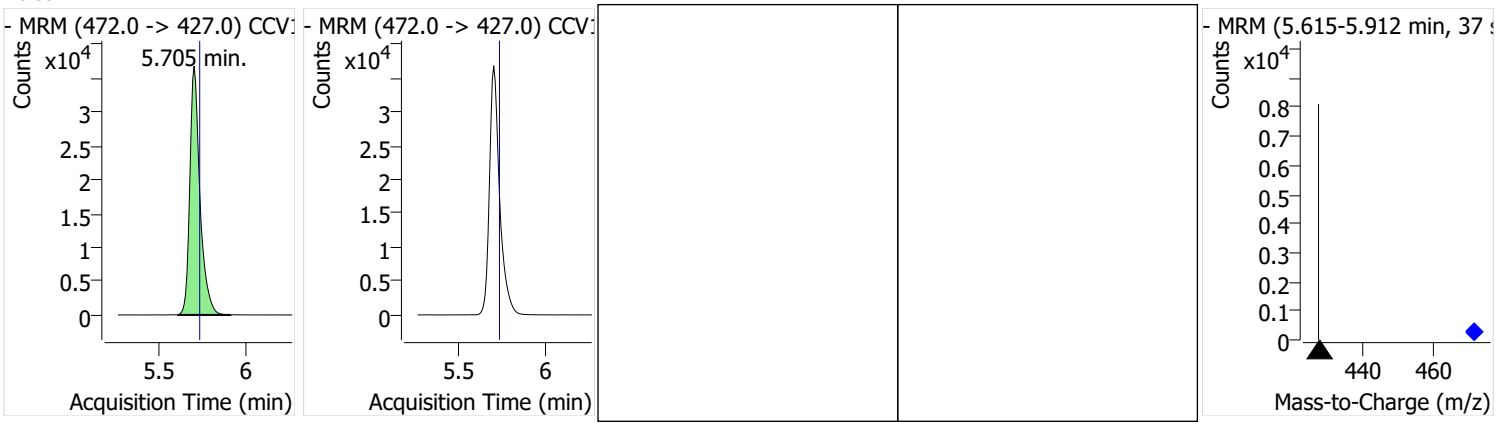

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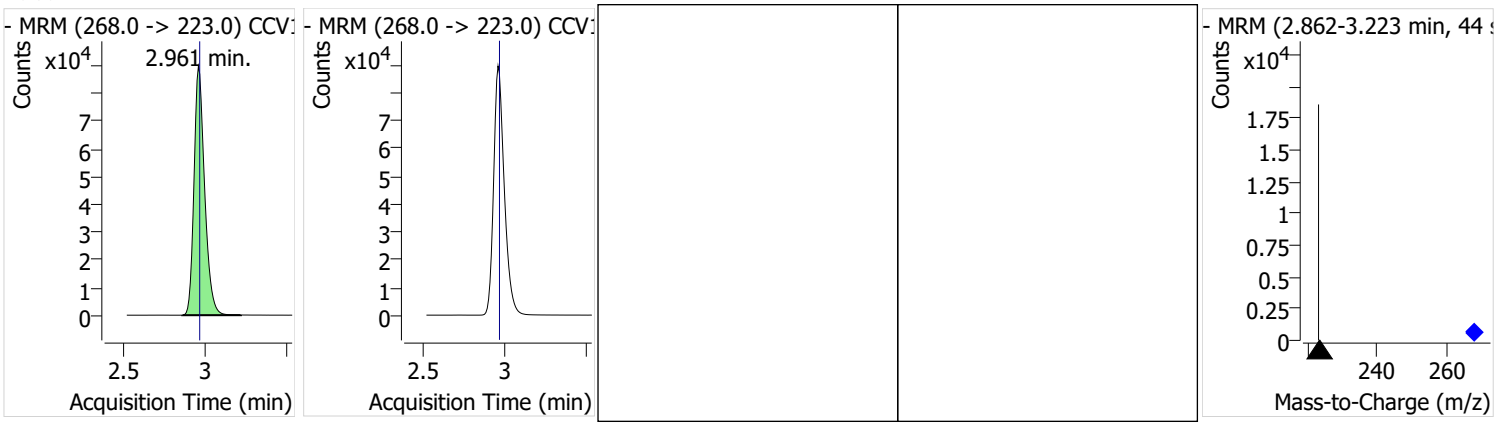

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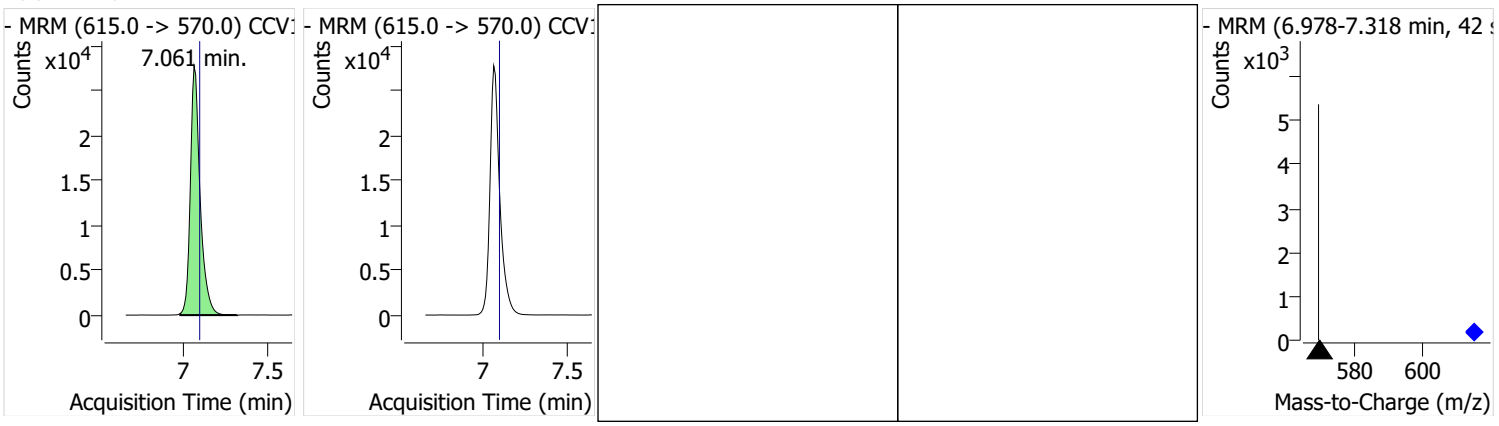

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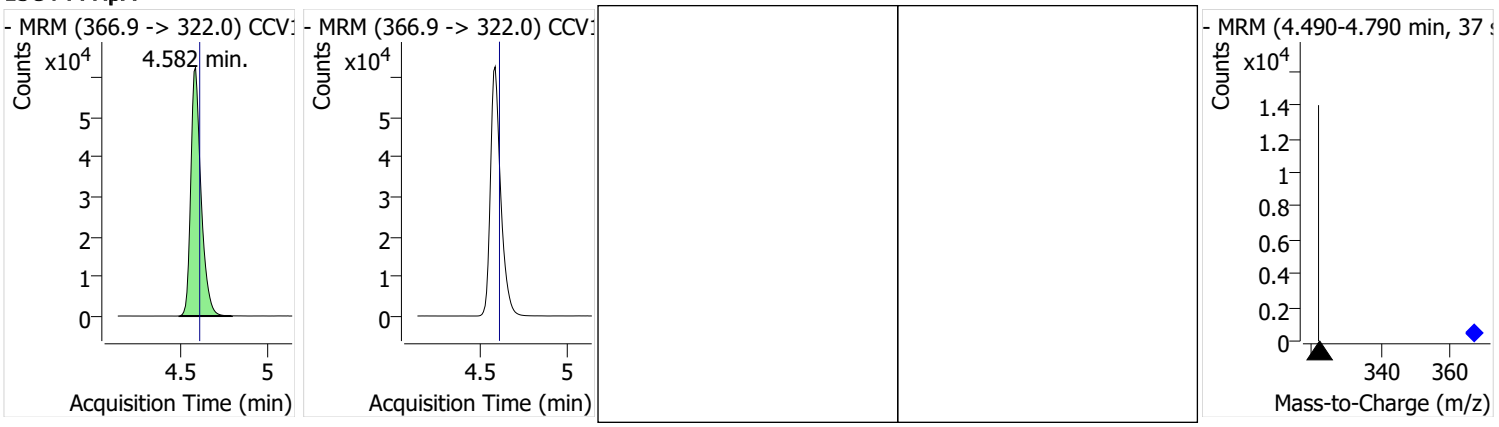

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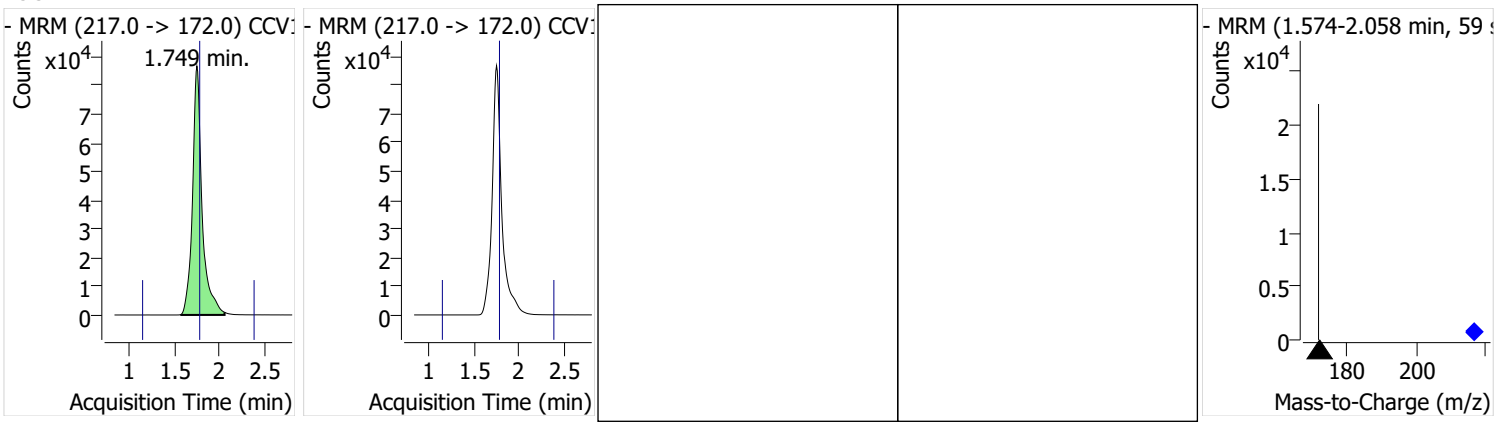

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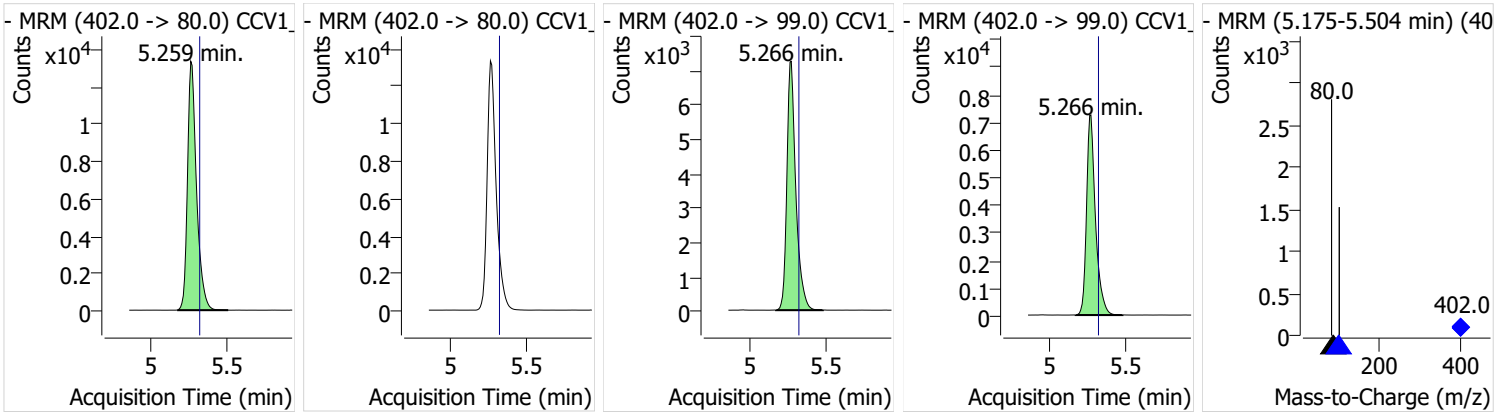
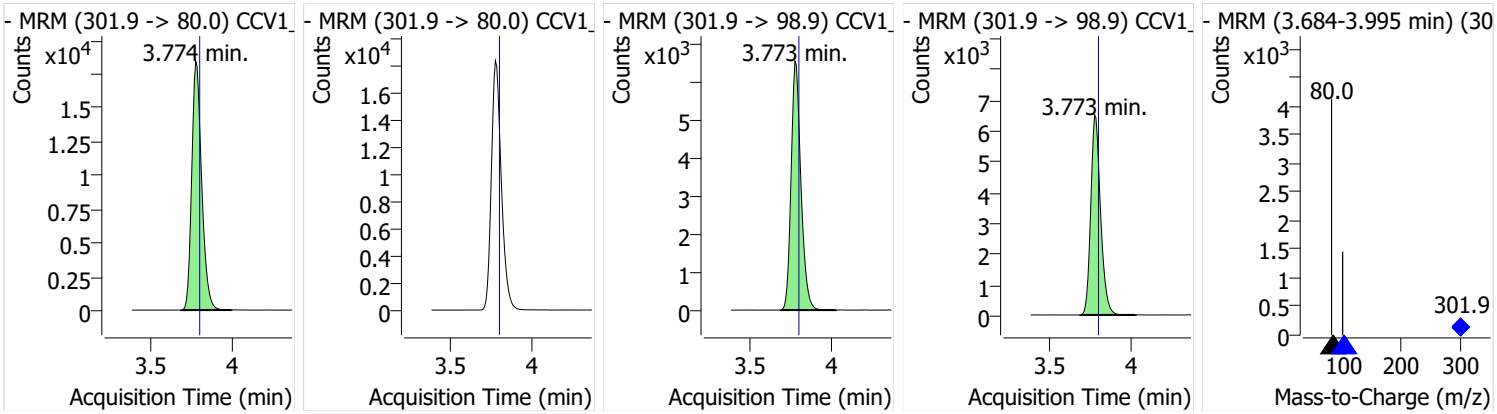
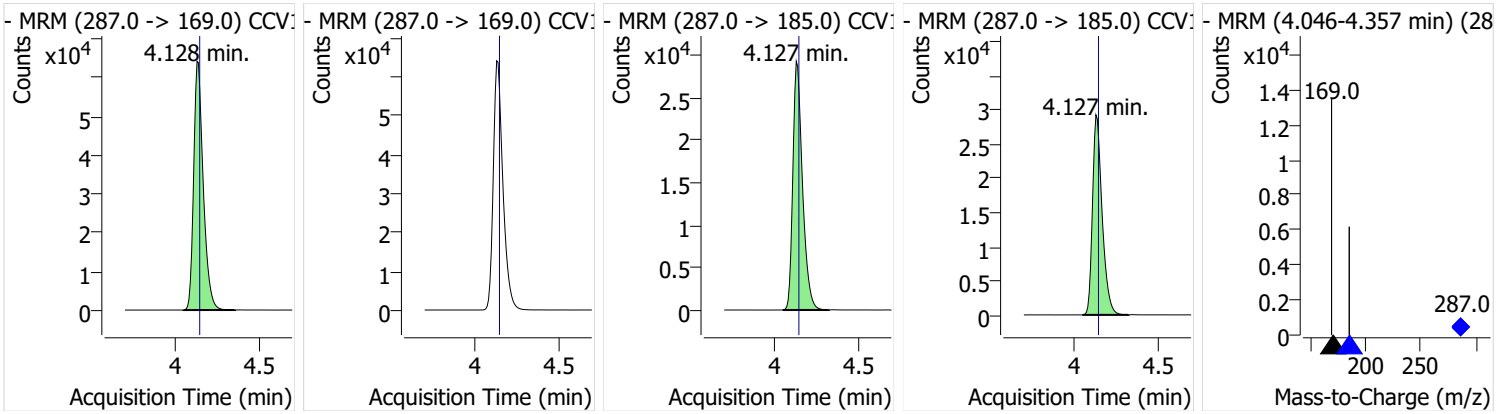


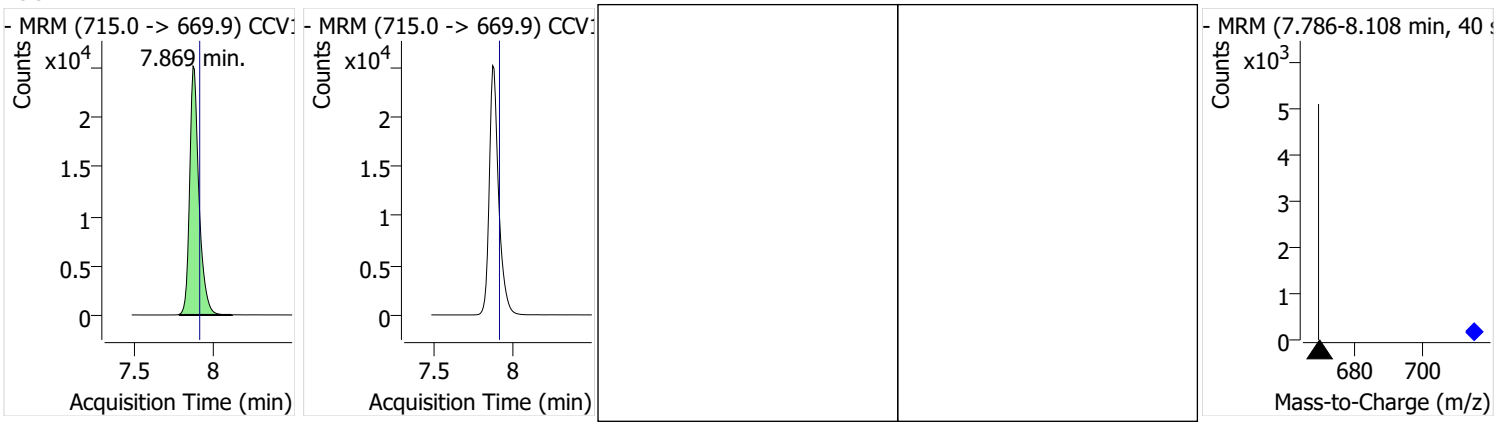
13C3-PFBS



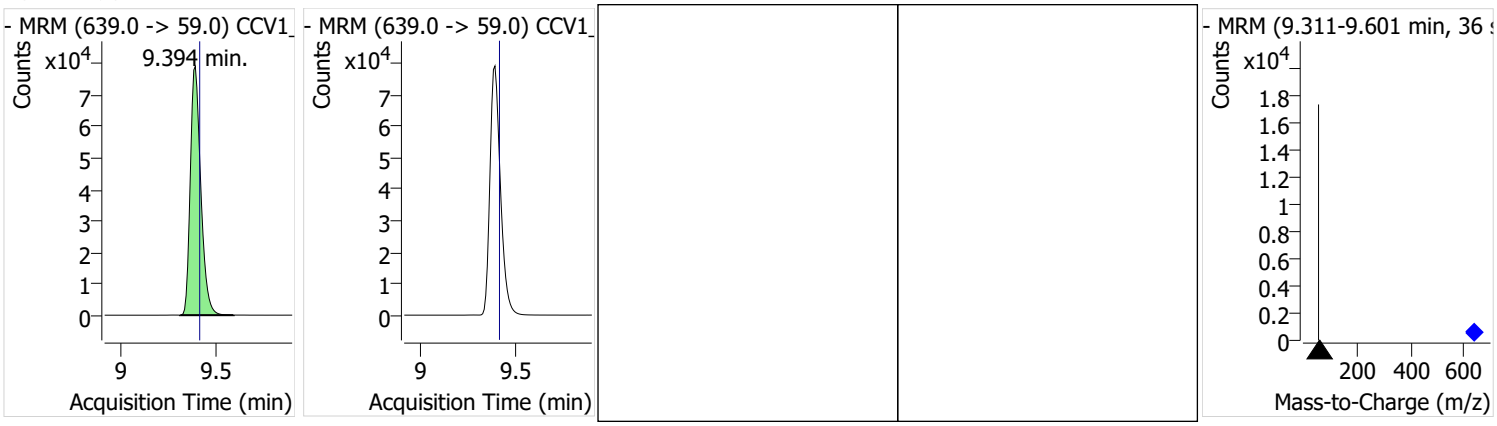
13C3-HFPODA



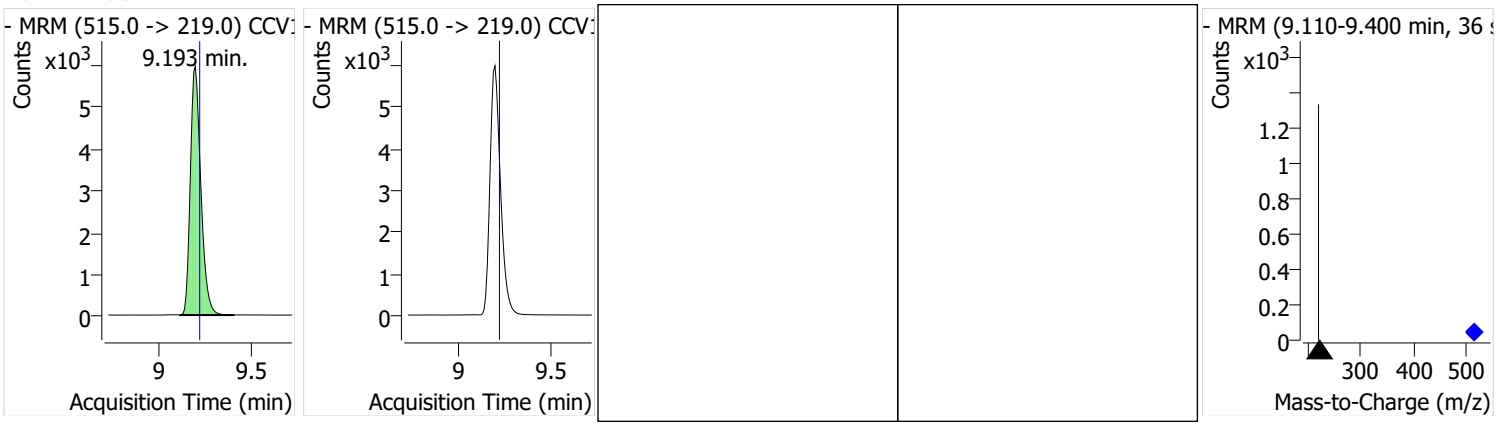
13C2-PFTeDA



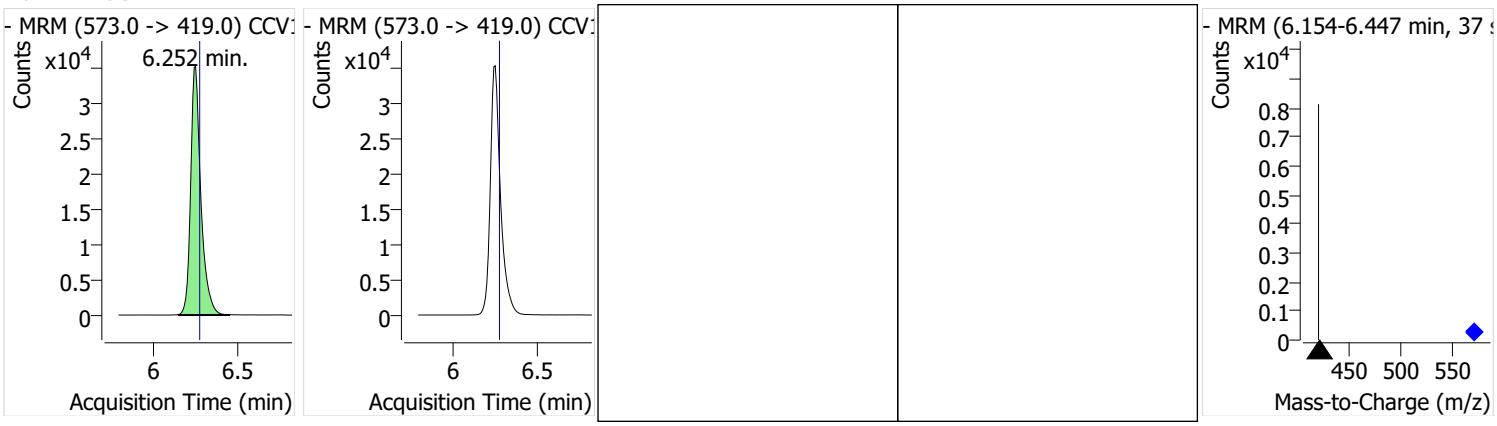
D9-NEtFOSE



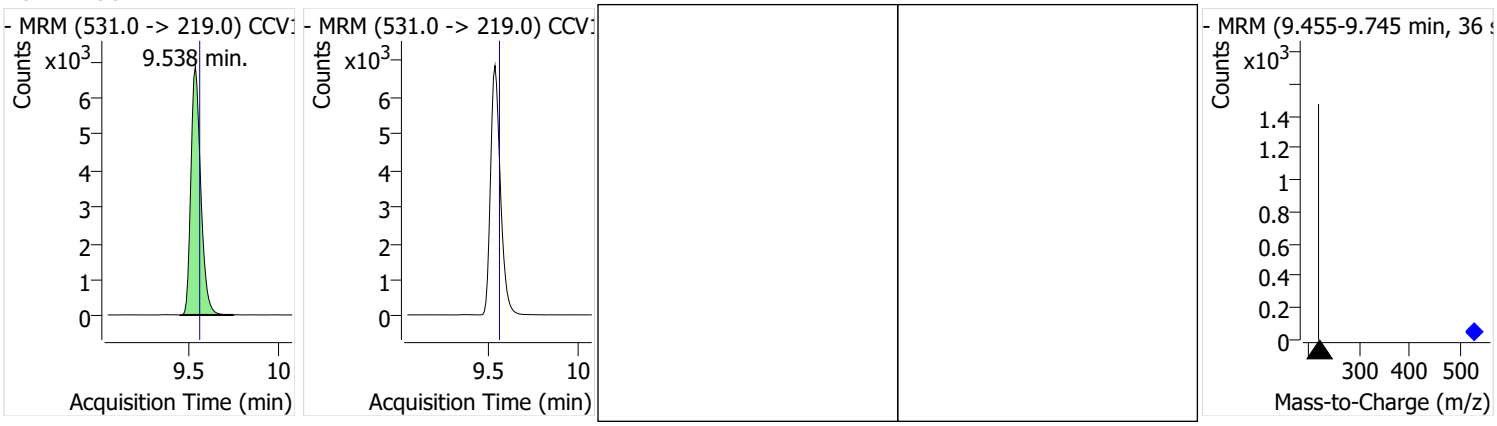
D3-NMeFOSA



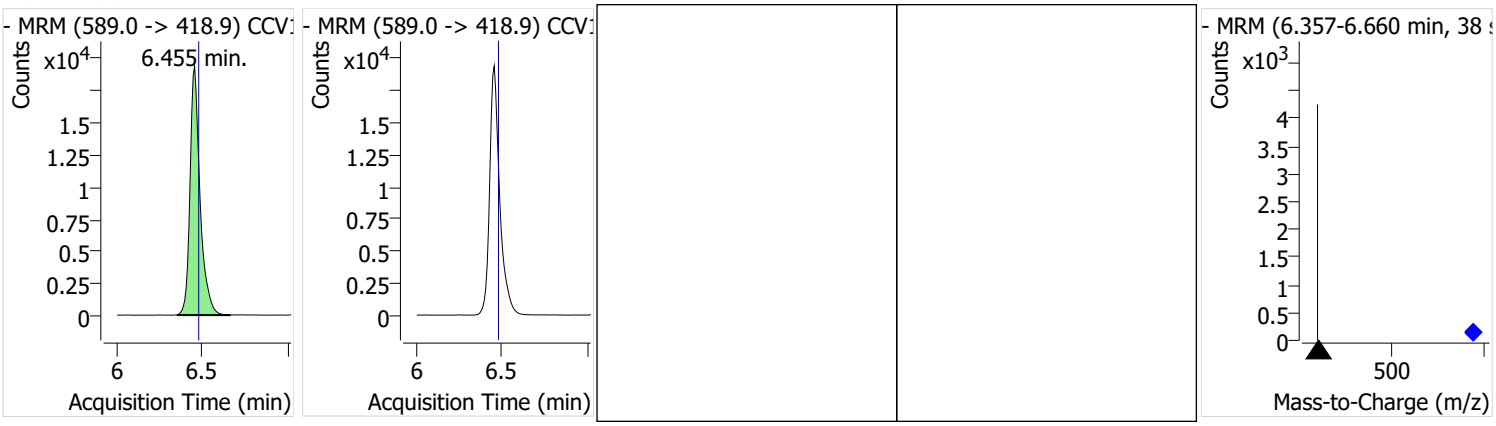
D3-NMeFOSAA



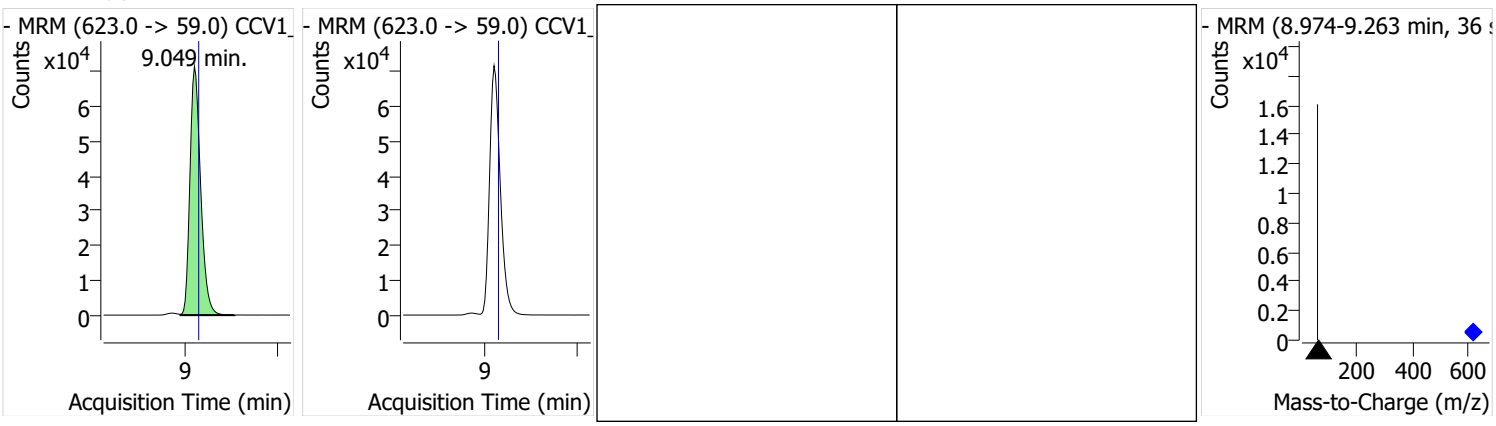
D5-NEtFOSA



D5-NEtFOSAA



D7-NMeFOSE



7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

Draft Method 1633

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	QQQ6	Calibration:	2400518
Lab File ID:	CCV7_1633_051724.d	Calibration Date:	05/08/24 00:00
Sequence:	S104823	Injection Date:	05/18/24
Lab Sample ID:	S104823-CCV2	Injection Time:	06:12

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Perfluorobutanoic acid (PFBA)	A	10.0	9.56	0.9230632	0.8828765		-4.4	30
Perfluoropentanoic acid (PFPeA)	A	5.00	4.79	1.009825	0.9680525		-4.1	30
Perfluorohexanoic acid (PFHxA)	A	2.50	2.40	1.01642	0.9744		-4.1	30
Perfluoroheptanoic acid (PFHpA)	A	2.50	2.45	1.042023	1.02268		-1.9	30
Perfluorooctanoic acid (PFOA)	A	2.50	2.38	1.255142	1.195939		-4.7	30
Perfluorononanoic acid (PFNA)	A	2.50	2.40	1.005098	0.9645242		-4.0	30
Perfluorodecanoic acid (PFDA)	A	2.50	2.35	1.030105	0.9685326		-6.0	30
Perfluoroundecanoic acid (PFUnA)	A	2.50	2.32	1.004618	0.9312968		-7.3	30
Perfluorododecanoic acid (PFDoA)	A	2.50	2.46	1.036105	1.018354		-1.7	30
Perfluorotridecanoic acid (PFTrDA)	A	2.50	2.47	0.8826679	0.8726051		-1.1	30
Perfluorotetradecanoic acid (PFTeDA)	A	2.50	2.43	1.005763	0.9759825		-3.0	30
Perfluorobutanesulfonic acid (PFBS)	A	2.22	2.09	1.246289	1.175328		-5.7	30
Perfluoropentanesulfonic acid (PFPeS)	A	2.35	2.34	1.295728	1.290981		-0.4	30
Perfluorohexanesulfonic acid (PFHxS)	A	2.29	2.16	1.12749	1.062806		-5.7	30
Perfluoroheptanesulfonic acid (PFHpS)	A	2.38	2.29	1.319448	1.265852		-4.1	30
Perfluorooctanesulfonic acid (PFOS)	A	2.32	2.08	1.299092	1.167025		-10.2	30
Perfluorononanesulfonic acid (PFNS)	A	2.41	2.31	1.017862	0.976743		-4.0	30
Perfluorodecanesulfonic acid (PFDS)	A	2.41	2.27	0.8144733	0.7679083		-5.7	30
Perfluorododecanesulfonic acid (PFDoS)	A	2.42	2.36	0.4986549	0.4853254		-2.7	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	A	9.38	9.25	2.915315	2.877699		-1.3	30

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

Draft Method 1633

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	QQQ6	Calibration:	2400518
Lab File ID:	CCV7_1633_051724.d	Calibration Date:	05/08/24 00:00
Sequence:	S104823	Injection Date:	05/18/24
Lab Sample ID:	S104823-CCV2	Injection Time:	06:12

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	A	9.50	8.85	3.387056	3.153863		-6.9	30
1H,1H,2H,2H-Perfluorodecan e sulfonic acid (8:2FTS)	A	9.62	10.1	2.548636	2.671787		4.8	30
Perfluorooctanesulfonamide (PFOSA)	A	2.50	2.38	1.103835	1.05279		-4.6	30
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	A	2.50	2.39	1.210944	1.158452		-4.3	30
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	A	2.50	2.29	1.298802	1.188882		-8.5	30
N-MeFOSAA (NMeFOSAA)	A	2.50	2.23	0.4240025	0.3775451		-11.0	30
N-EtFOSAA (NEtFOSAA)	A	2.50	2.35	1.21036	1.137592		-6.0	30
N-methylperfluorooctanesulfo namidoethanol(NMeFOSE)	A	25.0	25.0	1.079448	1.080834		0.1	30
N-ethylperfluorooctanesulfona midoethanol (NEtFOSE)	A	25.0	24.0	1.116928	1.072287		-4.0	30
Hexafluoropropylene oxide dimer acid (HFPO-DA)	A	10.0	9.24	0.9202454	0.8500237		-7.6	30
4,8-Dioxa-3H-perfluorononano ic acid (ADONA)	A	9.44	8.53	7.434924	6.716314		-9.7	30
9Cl-PF3ONS (F53B Minor)	A	9.38	9.75	3.288392	3.428805		4.3	30
11Cl-PF3OUdS (F53B Major)	A	9.44	9.82	2.952986	3.071022		4.0	30
3-Perfluoropropyl propanoic acid (FPrPA)(3:3FTCA)	A	25.0	20.9	3.553835E-02	2.968297E-02		-16.5	30
2H,2H,3H,3H-Perfluorooctano ic acid(FPePA)(5:3FTCA)	A	125	109	9.961691E-02	8.696144E-02		-12.7	30
3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTCA)	A	125	112	0.117316	0.1049064		-10.6	30
Perfluoro(2-ethoxyethane)sulf onic acid (PFEESA)	A	4.45	4.61	1.259028	1.302624		3.5	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	A	5.00	4.66	0.1094335	0.1019215		-6.9	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	A	5.00	4.66	0.6884095	0.6416376		-6.8	30
Nonafluoro-3,6-dioxaheptanoi c acid (NFDHA)	A	5.00	5.27	8.451406E-02	8.900764E-02		5.3	30
13C4-PFBA	A	10.0	10.4	1.085569	1.124086		3.5	30

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

Draft Method 1633

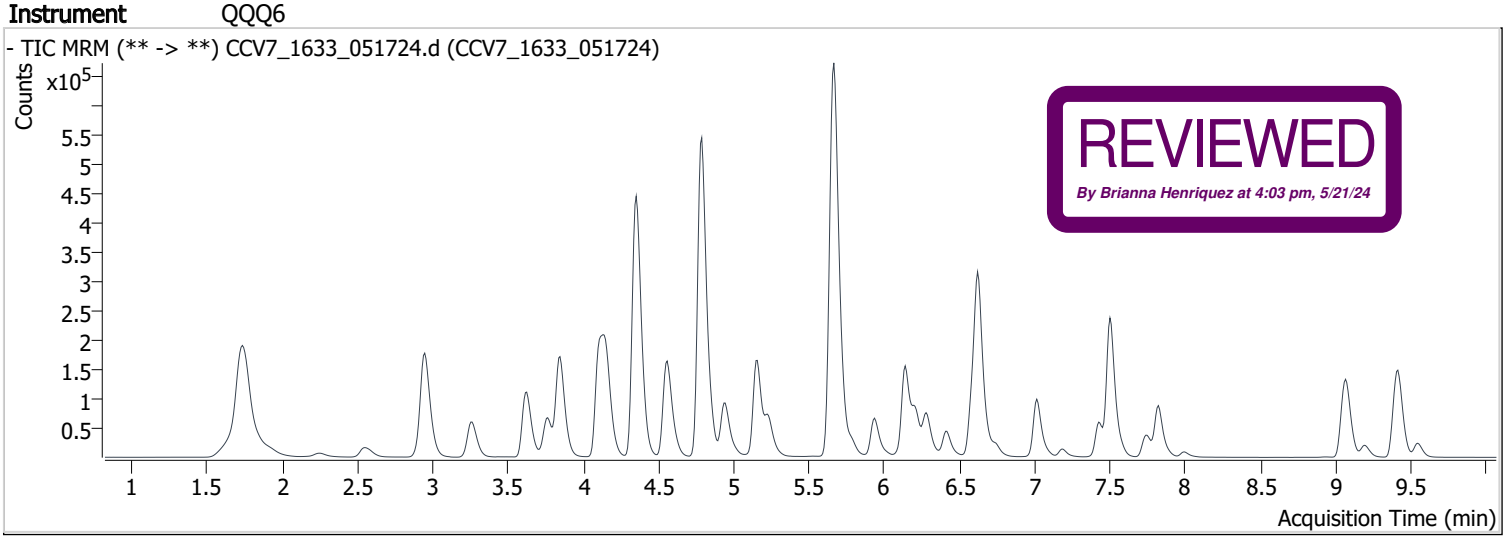
Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	QQQ6	Calibration:	2400518
Lab File ID:	CCV7_1633_051724.d	Calibration Date:	05/08/24 00:00
Sequence:	S104823	Injection Date:	05/18/24
Lab Sample ID:	S104823-CCV2	Injection Time:	06:12

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
13C5-PFPeA	A	5.00	5.26	0.9232685	0.971401		5.2	30	
13C5-PFHxA	A	2.50	2.57	1.030198	1.060969		3.0	30	
13C4-PFHpA	A	2.50	2.78	1.152357	1.282435		11.3	30	
13C8-PFOA	A	2.50	2.60	6.853857	7.114652		3.8	30	
13C9-PFNA	A	1.25	1.28	0.8524299	0.8714892		2.2	30	
13C6-PFDA	A	1.25	1.36	0.9862821	1.075699		9.1	30	
13C7-PFUnA	A	1.25	1.47	0.7984683	0.9371351		17.4	30	
13C2-PFDoA	A	1.25	1.35	0.8241087	0.8920643		8.2	30	
13C2-PFTeDA	A	1.25	1.42	0.7095946	0.8081029		13.9	30	
13C3-PFBS	A	2.50	2.76	1.35117	1.494191		10.6	30	
13C3-PFHxS	A	2.50	2.55	1.020951	1.040231		1.9	30	
13C8-PFOS	A	2.50	2.69	0.8987725	0.9669068		7.6	30	
13C2-4:2FTS	A	5.00	6.13	0.2991766	0.3670084		22.7	30	
13C2-6:2FTS	A	5.00	6.85	0.2021627	0.2768205		36.9	30	*
13C2-8:2FTS	A	5.00	6.53	0.1643288	0.2147006		30.7	30	*
13C8-PFOSA	A	2.50	2.53	1.580736	1.601578		1.3	30	
D3-NMeFOSA	A	2.50	2.48	0.5070093	0.5024785		-0.9	30	
D5-NEtFOSA	A	2.50	2.66	0.5288652	0.5632324		6.5	30	
D3-NMeFOSAA	A	5.00	6.14	1.619524	1.989946		22.9	30	
D5-NEtFOSAA	A	5.00	6.15	0.819503	1.008506		23.1	30	
D7-NMeFOSE	A	25.0	24.0	0.6143202	0.5908059		-3.8	30	
D9-NEtFOSE	A	25.0	25.5	0.6573456	0.6711523		2.1	30	
13C3-HFPO-DA	A	10.0	10.7	0.2881606	0.3078407		6.8	30	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Batch Path	R:\Data\MAY2024\051724\QuantResults\1633_CCVS_CORRECTED.batch.bin		
Analysis Time	5/20/2024 3:06 PM	**Last Calib Update**	5/9/2024 9:16 AM
Acq. Time	5/18/2024 6:12 AM	**Data File**	CCV7_1633_051724.d
Sample Type	CC	**Sample Name**	CCV7_1633_051724
Dilution	1	**Acq. Method**	1633_ACQUISITION_01.m
Sample Comment	E#24E0158	**Processing method**	1633_050824.m
Instrument	QQQ6		



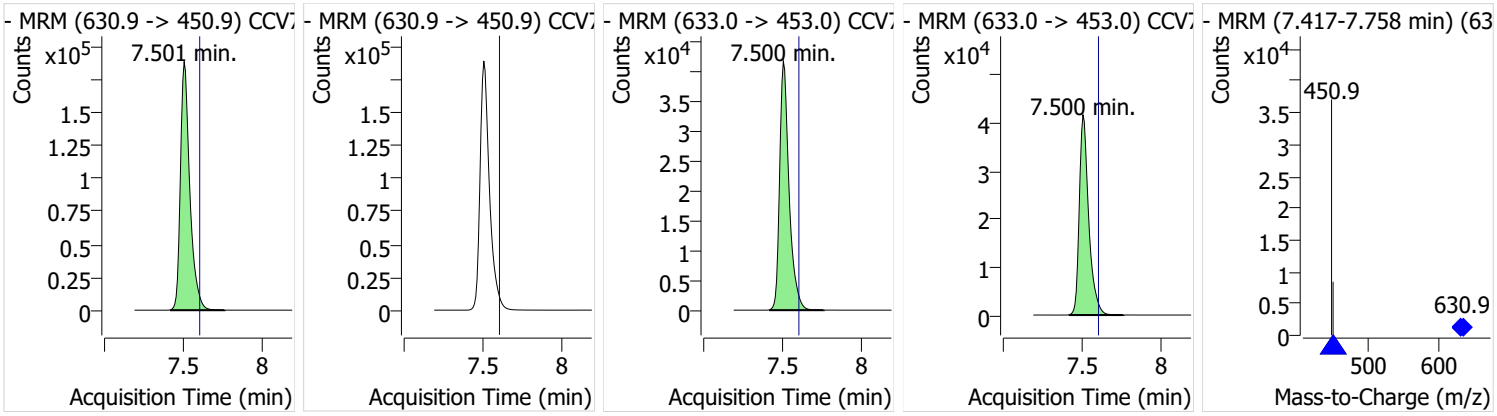
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
11Cl-PF3OUdS	7.501	781727	64676.35		13C3-HFPODA - ISTD	4.111	269650	9.8237	ng/ml			
633.0 -> 453.0			30886.79	22.2								
3:3FTCA	2.549	63142	21310.21		13C5-PFPeA - ISTD	2.945	425445	20.8809	ng/ml			
241.0 -> 117.0			2342.25	48.4								
4:2FTS	3.622	227010	32771.42		13C2-4:2FTS - ISTD	3.622	42050	9.2483	ng/ml			
327.0 -> 80.9			21510.96	38.2								
5:3FTCA	4.351	1010215	322457.51		13C5-PFHxA - ISTD	3.844	232336	109.1198	ng/ml			
341.0 -> 217.0			90890.29	91.3								
6:2FTS	4.942	190058	24757.32		13C2-6:2FTS - ISTD	4.941	31717	8.8459	ng/ml			
427.0 -> 80.9			11292.21	31.9								
7:3FTCA	5.658	1218678	41706.23		13C5-PFHxA - ISTD	3.844	232336	111.7776	ng/ml			
441.0 -> 317.0			18611.92	92.0								
8:2FTS	5.935	126453	32154.93		13C2-8:2FTS - ISTD	5.934	24599	10.0696	ng/ml			
527.0 -> 81.0			10825.76	40.0								
9Cl-PF3ONS	6.622	867253	42452.78		13C3-HFPODA - ISTD	4.111	269650	9.7457	ng/ml			
533.0 -> 353.0			10398.32	30.0								
ADONA	4.789	1709635	31623.34		13C3-HFPODA - ISTD	4.111	269650	8.5332	ng/ml			
377.0 -> 85.1			24886.22	36.4								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA	4.112	229209	12228.60		13C3-HFPODA - ISTD	4.111	269650	9.2369	ng/ml			
285.0 -> 184.9			7799.14	54.1								
NEtFOSA	9.548	32331	24193.23		D5-NEtFOSA - ISTD	9.538	27195	2.2884	ng/ml			
526.0 -> 219.0			32448.69	96.0								
NEtFOSAA	6.415	55394	6440.21		D5-NEtFOSAA - ISTD	6.406	97388	2.3497	ng/ml	✔	3	ALB 5/20/24
584.0 -> 526.0			3015.81	68.3								
NEtFOSE	9.420	347480	117188.02		D9-NEtFOSE - ISTD	9.394	324055	24.0008	ng/ml			
NFDHA	3.758	41359	6414.60		13C5-PFHxA - ISTD	3.844	232336	5.2658	ng/ml			
295.0 -> 85.0			4551.17	34.8								
NMeFOSA	9.195	28106	67863.49		D3-NMeFOSA - ISTD	9.193	24261	2.3916	ng/ml			
512.0 -> 219.0			36605.09	94.8								
NMeFOSAA	6.212	36275	5234.61		D3-NMeFOSAA - ISTD	6.203	192162	2.2261	ng/ml	✔	3	RRB 05/20/24
570.0 -> 418.9			5832.05	73.5								
NMeFOSE	9.074	308319	192465.29		D7-NMeFOSE - ISTD	9.049	285261	25.0321	ng/ml			
PFBA	1.737	612097	9969.04		13C4-PFBA - ISTD	1.732	693298	9.5646	ng/ml			
PFBS	3.766	89339	11108.43		13C3-PFBS - ISTD	3.766	85599	2.0909	ng/ml			
298.9 -> 98.8			5439.48	40.1								
PFDA	6.140	284320	6567.64		13C6-PFDA - ISTD	6.140	146779	2.3506	ng/ml			
513.0 -> 219.0			332272.25	16.1								
PFDoA	7.012	247912	12744.72		13C2-PFDoA - ISTD	7.011	121722	2.4572	ng/ml			
613.0 -> 319.0			5159.72	12.9								
PFDoS	7.995	21933	11958.98		13C8-PFOS - ISTD	6.281	46685	2.3574	ng/ml			
698.9 -> 99.0			13485.32	61.9								
PFDS	7.180	34560	7435.71		13C8-PFOS - ISTD	6.281	46685	2.2721	ng/ml			
599.0 -> 98.8			11576.99	59.9								
PFEESA	4.157	538711	38414.61		13C5-PFHxA - ISTD	3.844	232336	4.6071	ng/ml			
315.0 -> 83.0			9250.34	7.1								
PFHpA	4.550	287203	6469.63		13C4-PFHpA - ISTD	4.549	280834	2.4536	ng/ml			
362.9 -> 169.0			7756.01	17.3								
PFHpS	5.791	56260	6156.87		13C8-PFOS - ISTD	6.281	46685	2.2862	ng/ml			
449.0 -> 98.8			7470.37	50.2								

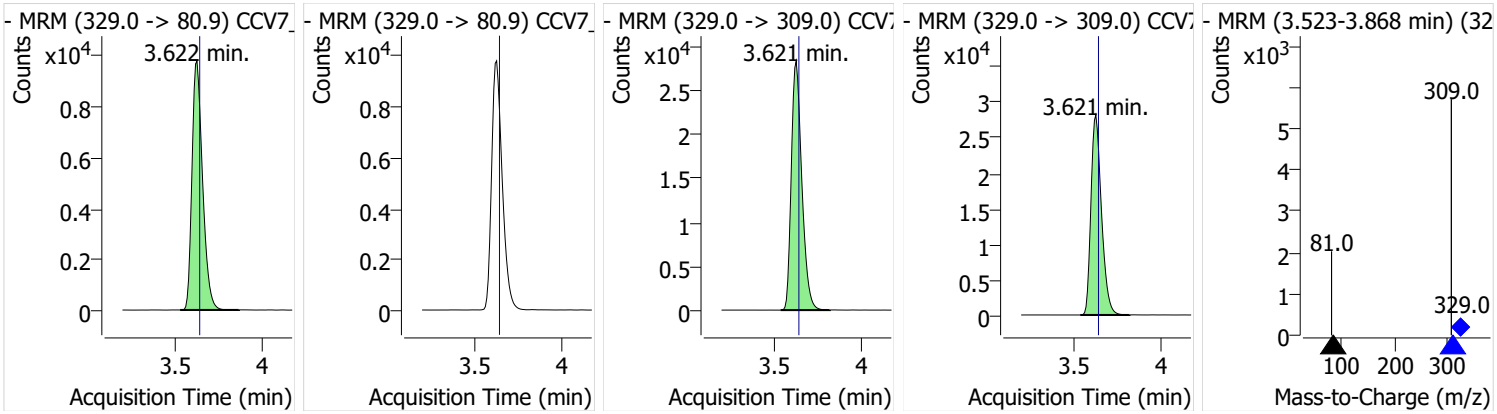
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFHxA	3.847	226389	8784.96		13C5-PFHxA - ISTD	3.844	232336	2.3966	ng/ml			
313.0 -> 118.9			1060.30	3.5								
PFHxS	5.235	58015	6005.61		13C3-PFHxS - ISTD	5.234	59592	2.1564	ng/ml	✔	3	ALB 5/20/24
398.9 -> 99.0			2572.84	42.3								
PFMBA	3.255	272981	108008.00		13C5-PFPeA - ISTD	2.945	425445	4.6603	ng/ml			
PFMPA	2.250	43362	7276.49		13C5-PFPeA - ISTD	2.945	425445	4.6568	ng/ml			
PFNA	5.673	295297	7224.57		13C9-PFNA - ISTD	5.672	153079	2.3991	ng/ml			
463.0 -> 219.0			18158.75	20.9								
PFNS	6.744	43958	8712.41		13C8-PFOS - ISTD	6.281	46685	2.3129	ng/ml			
549.0 -> 98.8			5297.74	52.6								
PFOA	5.157	315761	1854.93		13C8-PFOA - ISTD	5.148	264028	2.3821	ng/ml			
413.0 -> 169.0			4081.24	23.8								
PFOS	6.282	50560	19522.72		13C8-PFOS - ISTD	6.281	46685	2.0837	ng/ml	✔	3	ALB 5/20/24
499.0 -> 99.0			3849.64	47.5								
PFOSA	7.744	81412	99093.84		13C8-PFOSA - ISTD	7.751	77329	2.3844	ng/ml			
497.9 -> 478.0			2301.07	3.2								
PFPeA	2.946	411853	14381.07		13C5-PFPeA - ISTD	2.945	425445	4.7932	ng/ml			
263.0 -> 69.0			547.98	0.3								
PFPeS	4.576	72317	12866.25		13C3-PFHxS - ISTD	5.234	59592	2.3418	ng/ml			
349.0 -> 98.9			7797.56	46.7								
PFTeDA	7.820	215234	19063.90		13C2-PFTeDA - ISTD	7.819	110265	2.4260	ng/ml			
713.0 -> 168.9			9513.37	7.5								
PFTrDA	7.423	212430	7016.57		13C2-PFDoA - ISTD	7.011	121722	2.4715	ng/ml			
663.0 -> 168.9			6764.56	13.1								
PFUnA	6.587	238173	5566.91		13C7-PFUnA - ISTD	6.586	127872	2.3175	ng/ml			
563.0 -> 269.1			10951.07	17.4								
TDCA	6.282	37555	5294.08					-	ng/ml			
499.0 -> 99.0			3230.21	**56.7								
13C2-8:2FTS	5.934	24599	6323.95		18O2-PFHxS	5.233	57288	6.5327	ng/ml			
529.0 -> 509.0			26515.51	308.4								
13C2-4:2FTS	3.622	42050	6477.70		18O2-PFHxS	5.233	57288	6.1336	ng/ml			

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
329.0 -> 309.0			26140.15	286.0								
13C2-6:2FTS	4.941	31717	6150.59		18O2-PFHxS	5.233	57288	6.8465	ng/ml			
429.0 -> 409.0			40429.93	348.2								
13C5-PFHxA	3.844	232336	33083.73		13C2-PFHxA	3.845	218985	2.5747	ng/ml			
318.0 -> 120.0			354.71	2.0								
13C6-PFDA	6.140	146779	9980.32		13C2-PFDA	6.140	136450	1.3633	ng/ml			
13C7-PFUnA	6.586	127872	16549.02		13C2-PFDA	6.140	136450	1.4671	ng/ml			
13C8-PFOA	5.148	264028	26197.00		13C4-PFOA	5.157	37110	2.5951	ng/ml			
13C8-PFOS	6.281	46685	8714.45		13C4-PFOS	6.281	48283	2.6895	ng/ml			
507.0 -> 99.0			4850.13	52.9								
13C8-PFOSA	7.751	77329	713708.85		13C4-PFOS	6.281	48283	2.5330	ng/ml			
13C9-PFNA	5.672	153079	13855.65		13C5-PFNA	5.664	175652	1.2779	ng/ml			
13C5-PFPeA	2.945	425445	11724.08		13C2-PFHxA	3.845	218985	5.2607	ng/ml			
13C2-PFDoA	7.011	121722	10066.72		13C2-PFDA	6.140	136450	1.3531	ng/ml			
13C4-PFHpA	4.549	280834	27689.53		13C2-PFHxA	3.845	218985	2.7822	ng/ml			
13C4-PFBA	1.732	693298	154848.25		13C3-PFBA	1.735	308383	10.3548	ng/ml			
13C3-PFHxS	5.234	59592	15088.29		18O2-PFHxS	5.233	57288	2.5472	ng/ml			
402.0 -> 99.0			9852.08	51.5								
13C3-PFBS	3.766	85599	12205.00		18O2-PFHxS	5.233	57288	2.7646	ng/ml			
301.9 -> 98.9			14776.66	34.4								
13C3-HFPODA	4.111	269650	20864.42		13C2-PFHxA	3.845	218985	10.6830	ng/ml			
287.0 -> 185.0			25064.42	47.2								
13C2-PFTeDA	7.819	110265	7730.53		13C2-PFDA	6.140	136450	1.4235	ng/ml			
D9-NEtFOSE	9.394	324055	100520.79		13C4-PFOS	6.281	48283	25.5251	ng/ml			
D3-NMeFOSA	9.193	24261	12487.90		13C4-PFOS	6.281	48283	2.4777	ng/ml			
D3-NMeFOSAA	6.203	192162	76932.47		13C4-PFOS	6.281	48283	6.1436	ng/ml			
D5-NEtFOSA	9.538	27195	6627.74		13C4-PFOS	6.281	48283	2.6625	ng/ml			
D5-NEtFOSAA	6.406	97388	15837.18		13C4-PFOS	6.281	48283	6.1532	ng/ml			
D7-NMeFOSE	9.049	285261	244342.56		13C4-PFOS	6.281	48283	24.0431	ng/ml			

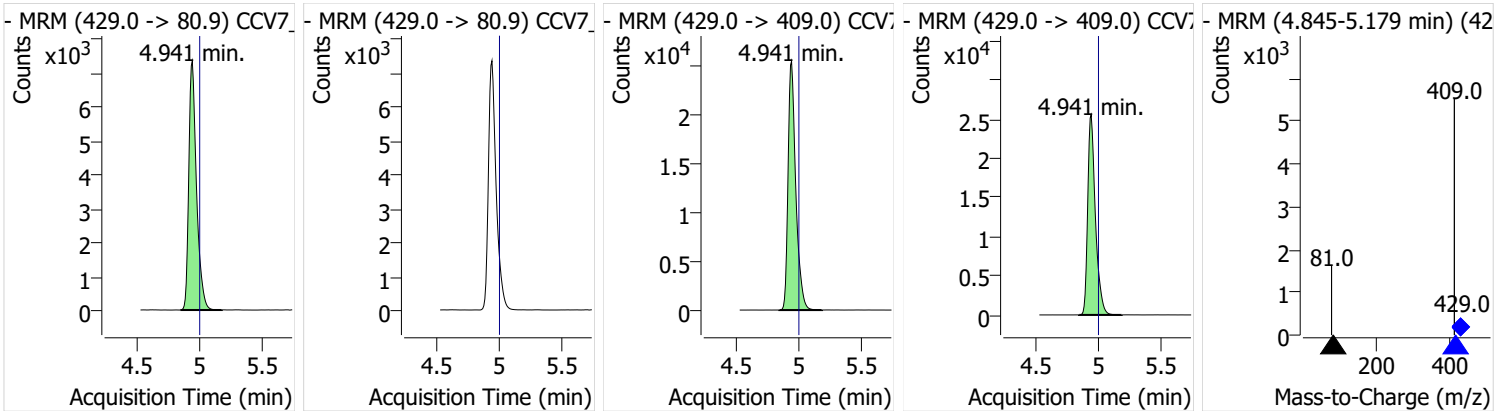
11Cl-PF3OUdS



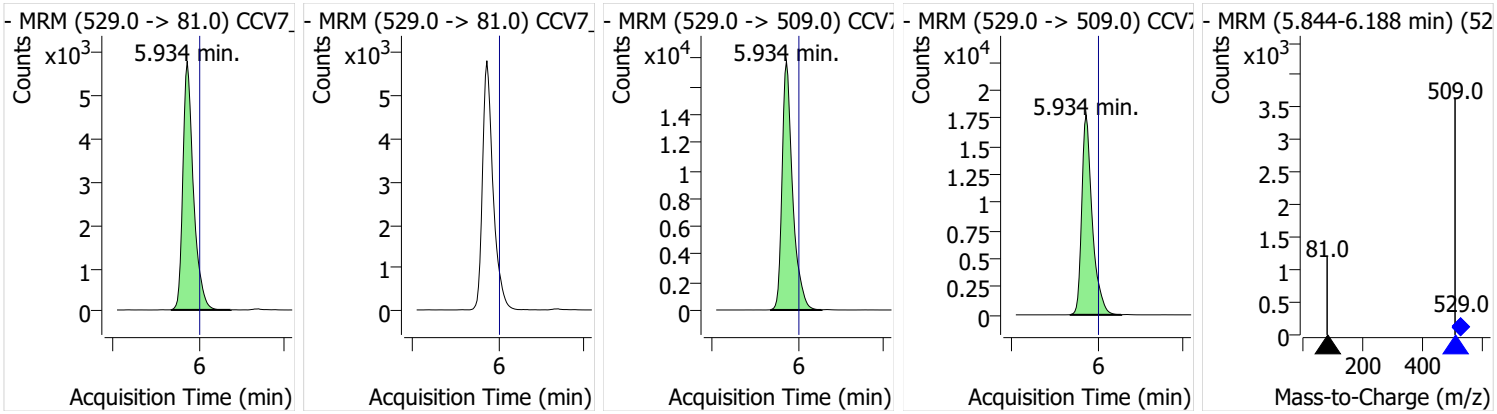
13C2-4:2FTS - ISTD



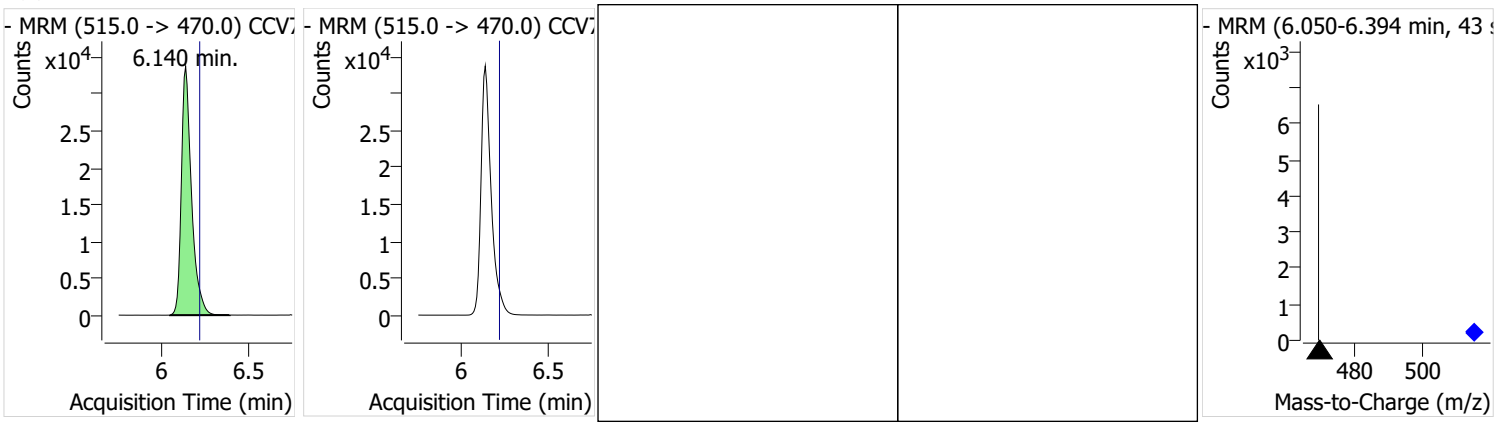
13C2-6:2FTS - ISTD



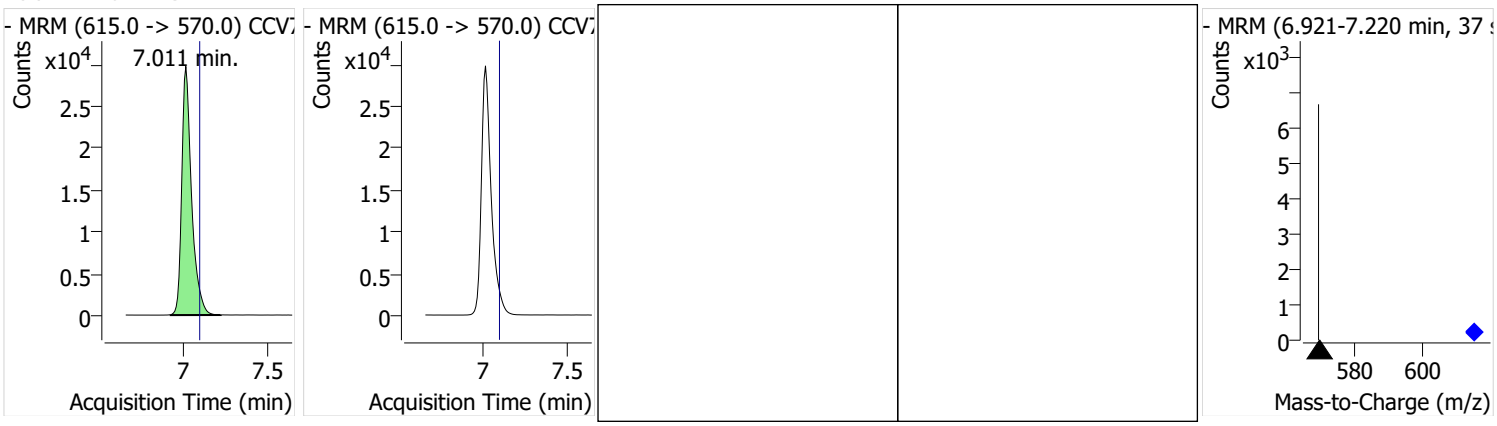
13C2-8:2FTS - ISTD



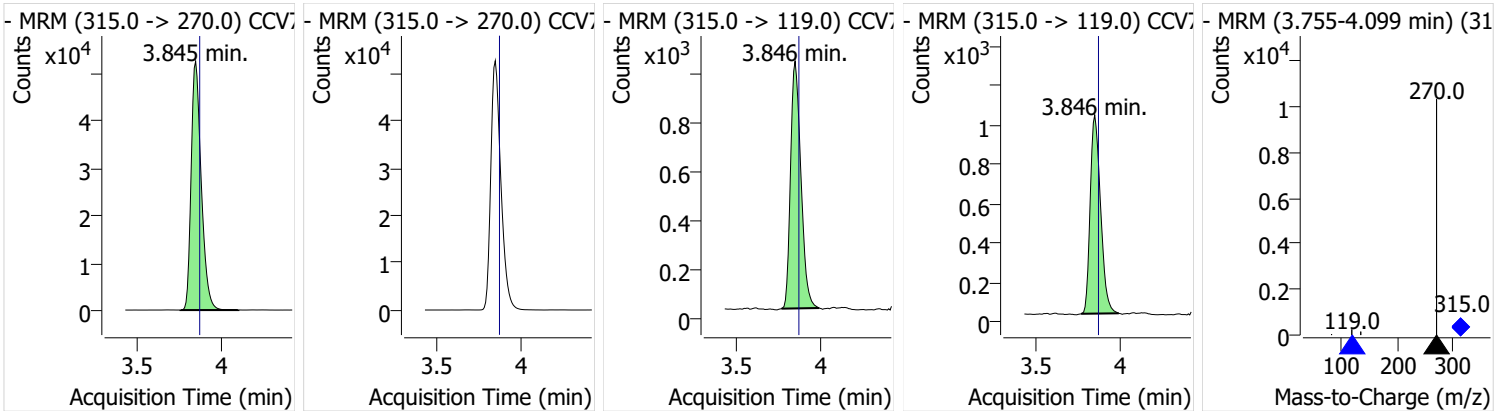
13C2-PFDA



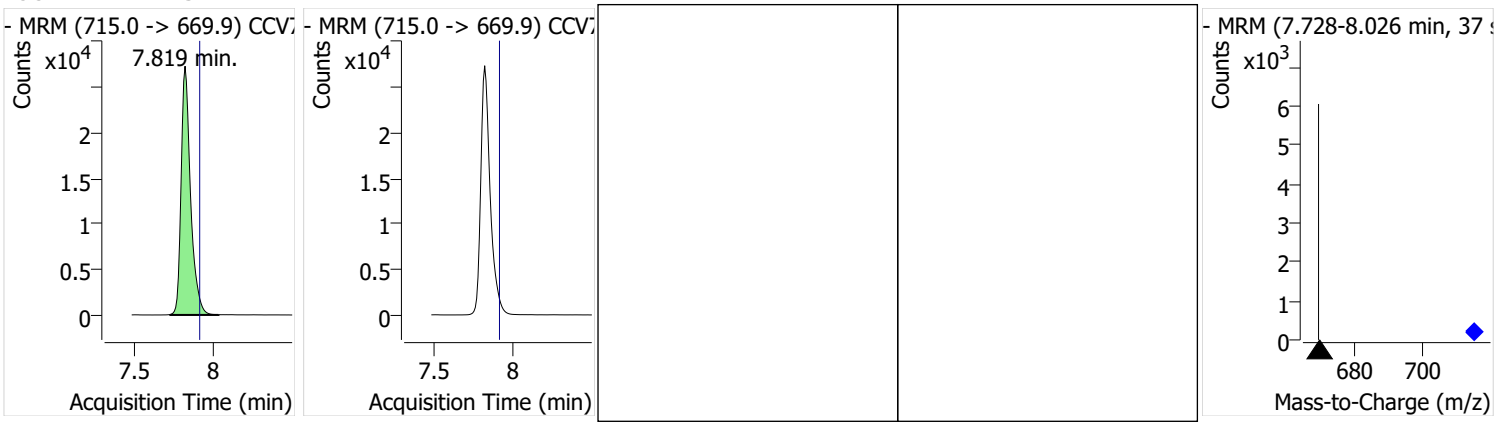
13C2-PFDoA - ISTD



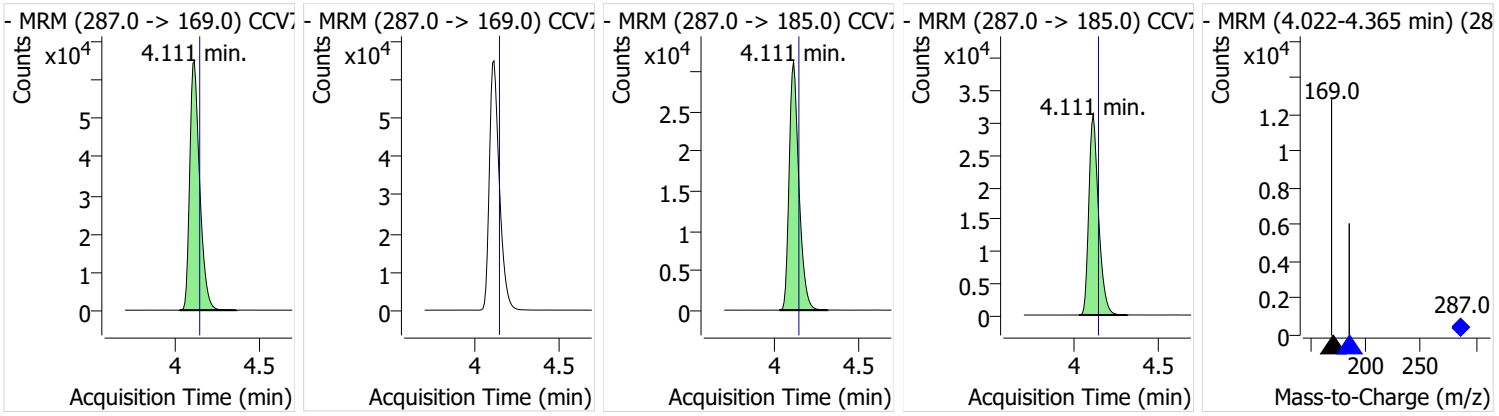
13C2-PFHxA



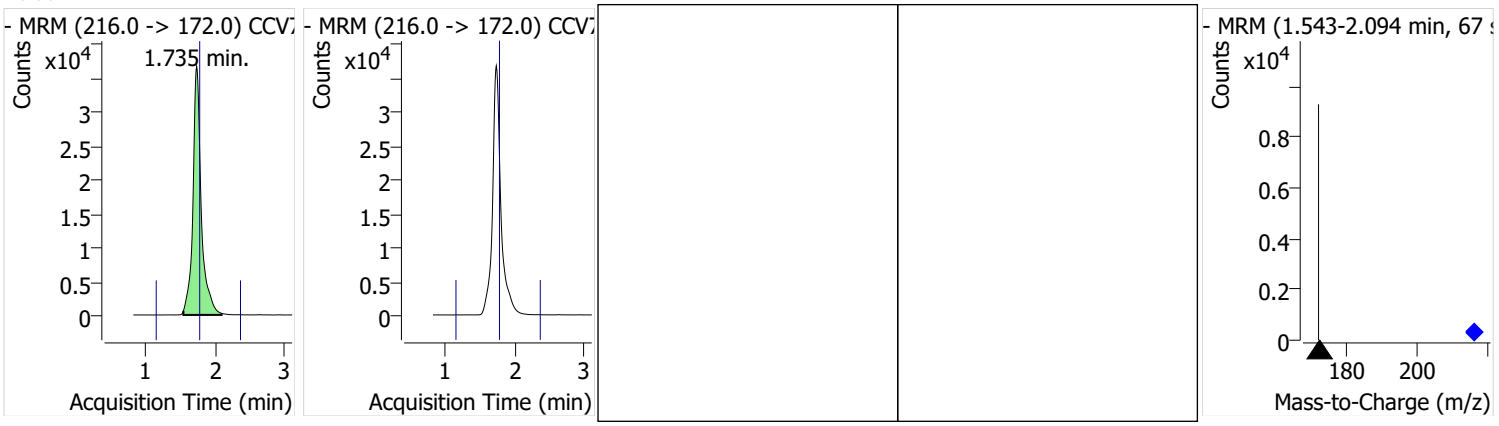
13C2-PFTeDA - ISTD



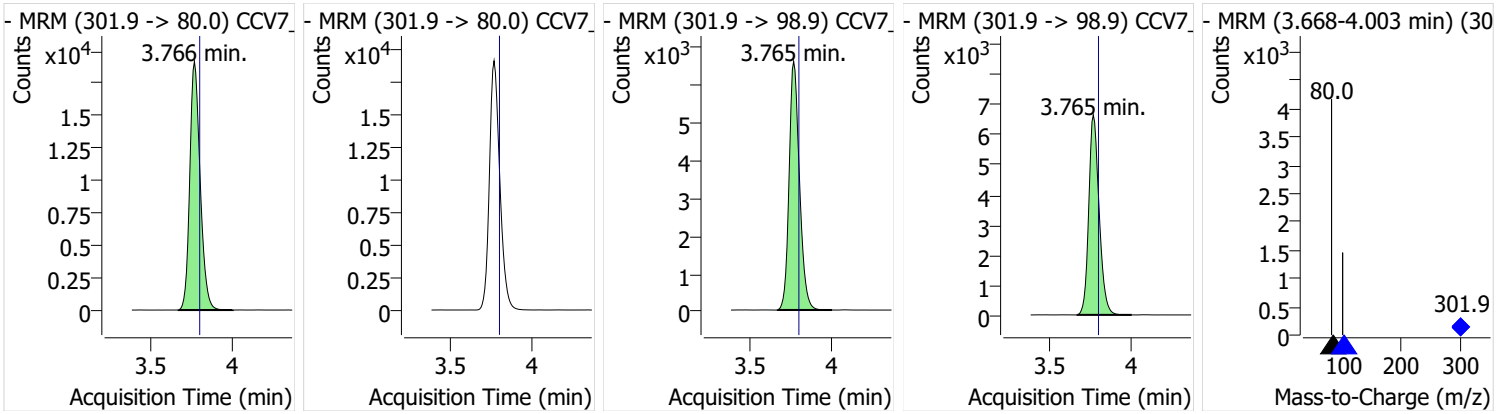
13C3-HFPODA - ISTD



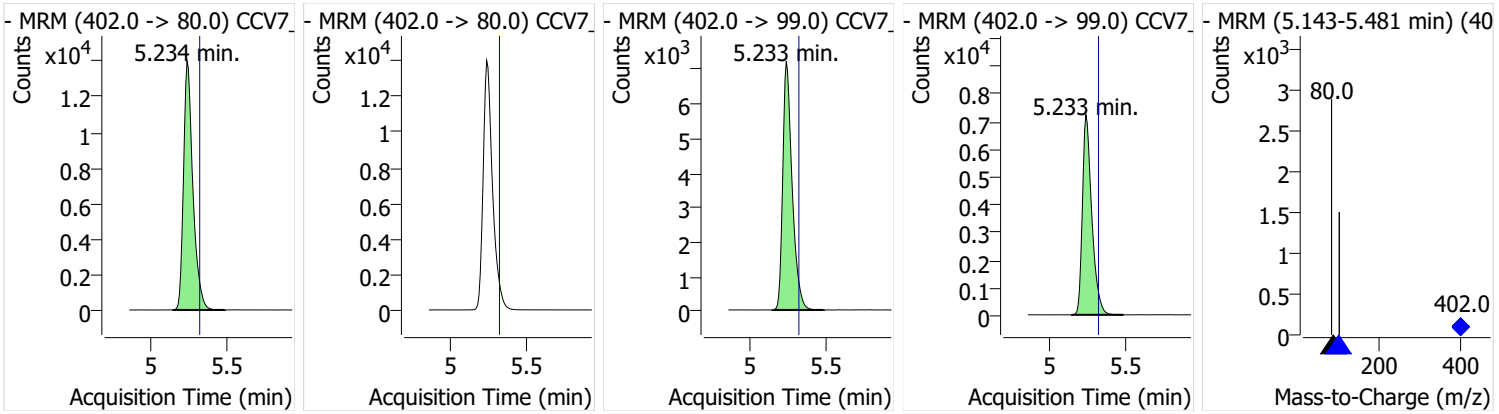
13C3-PFBA



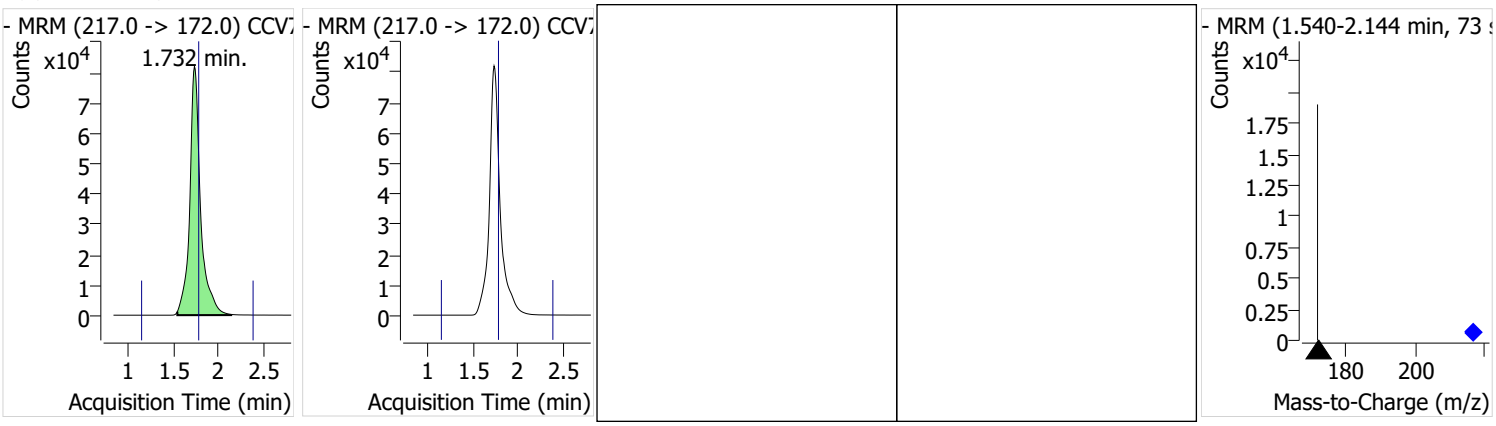
13C3-PFBS - ISTD



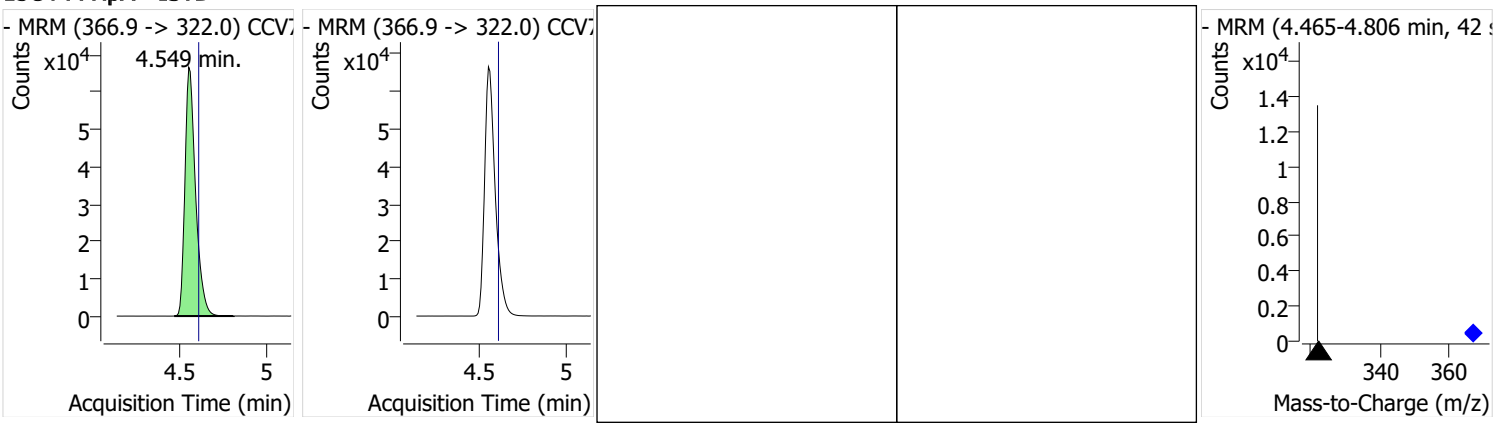
13C3-PFHxS - ISTD



13C4-PFBA - ISTD



13C4-PFHpA - ISTD



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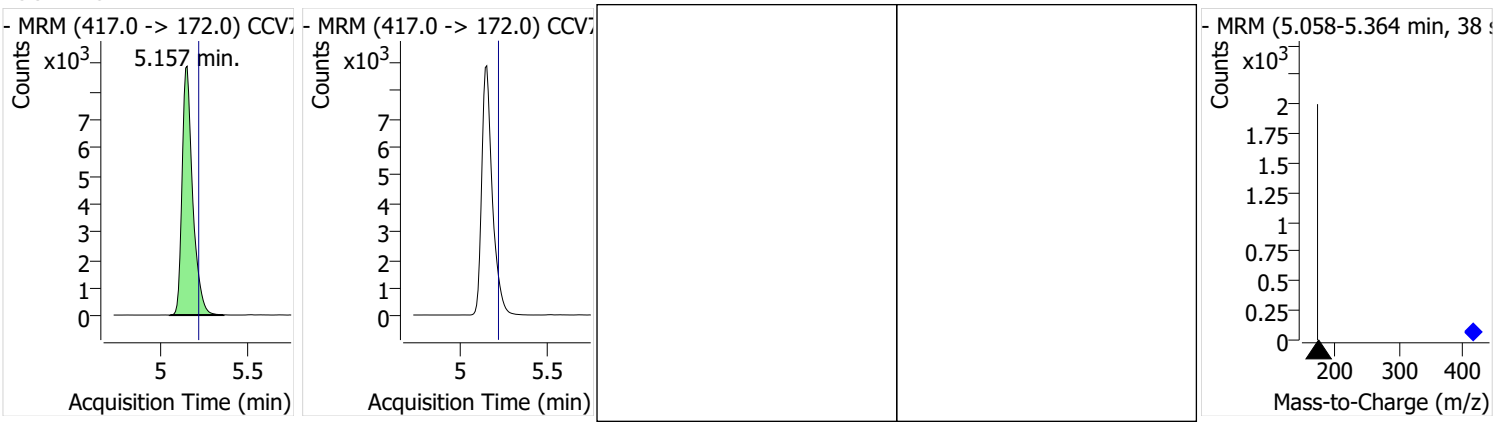
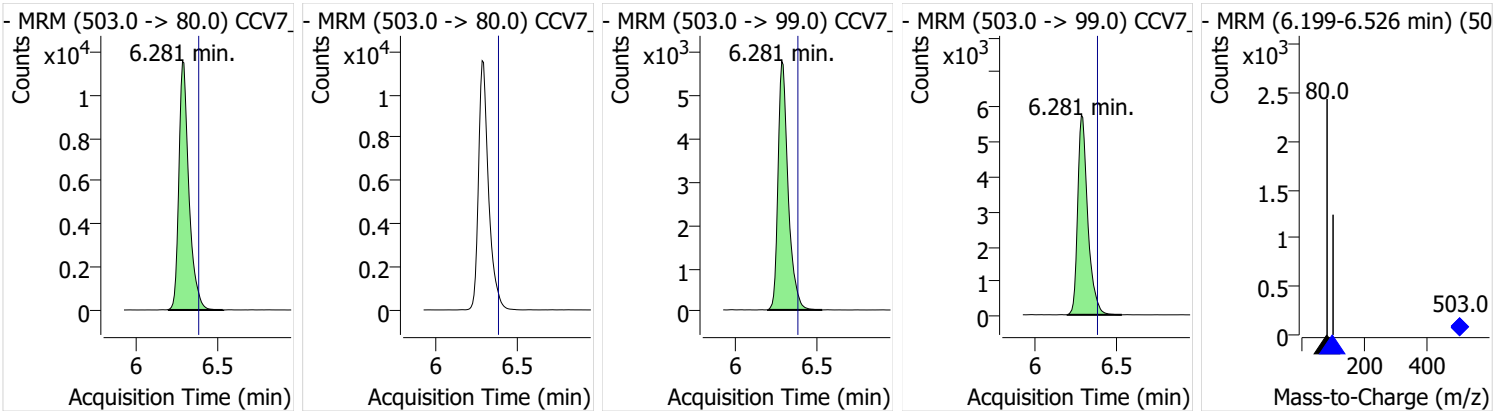
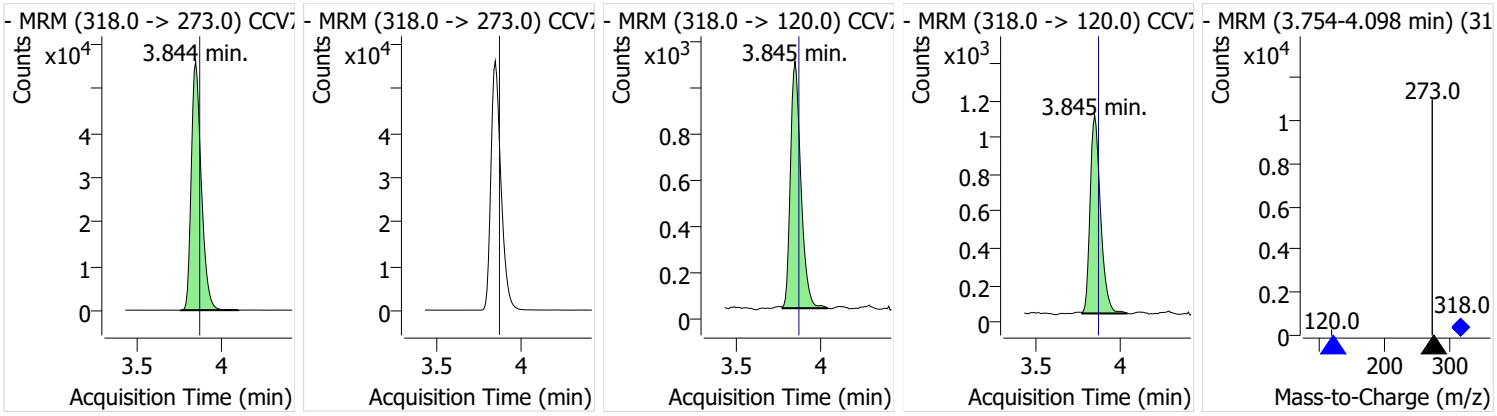


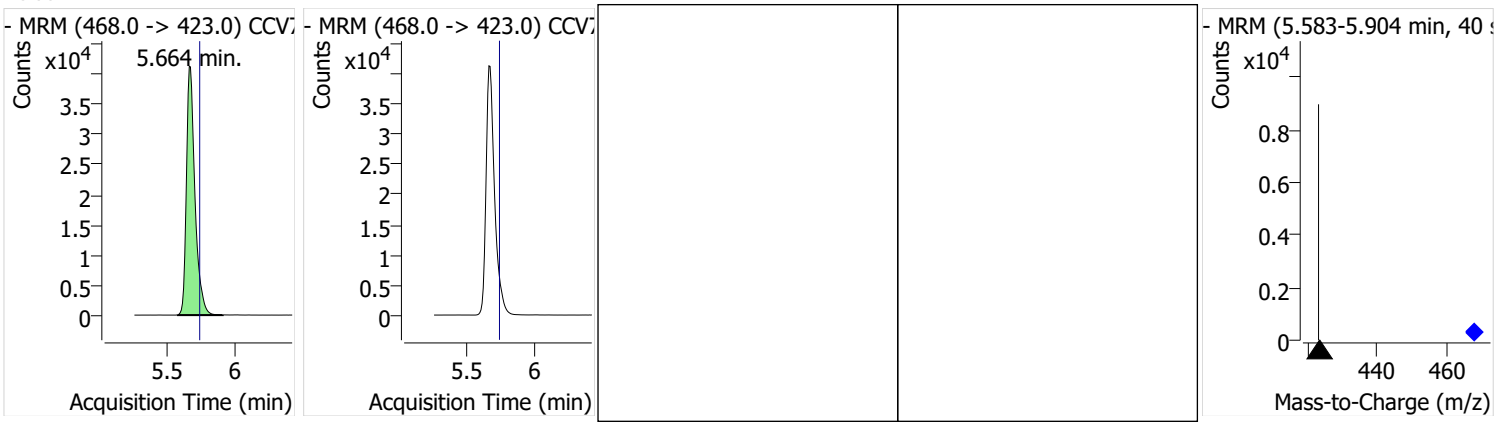
13C4-PFOS



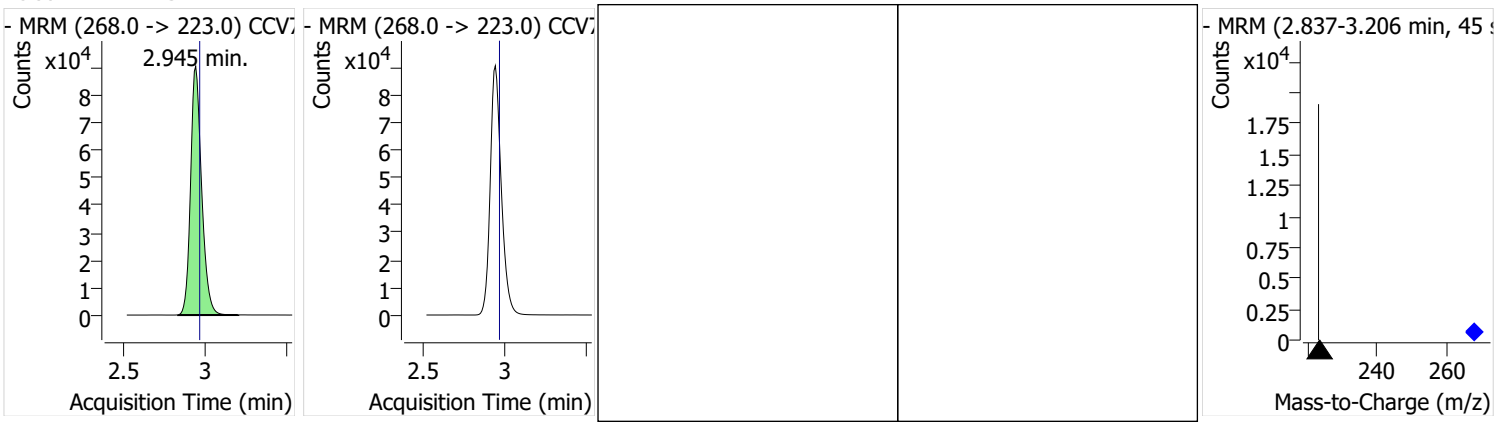
13C5-PFHxA - ISTD



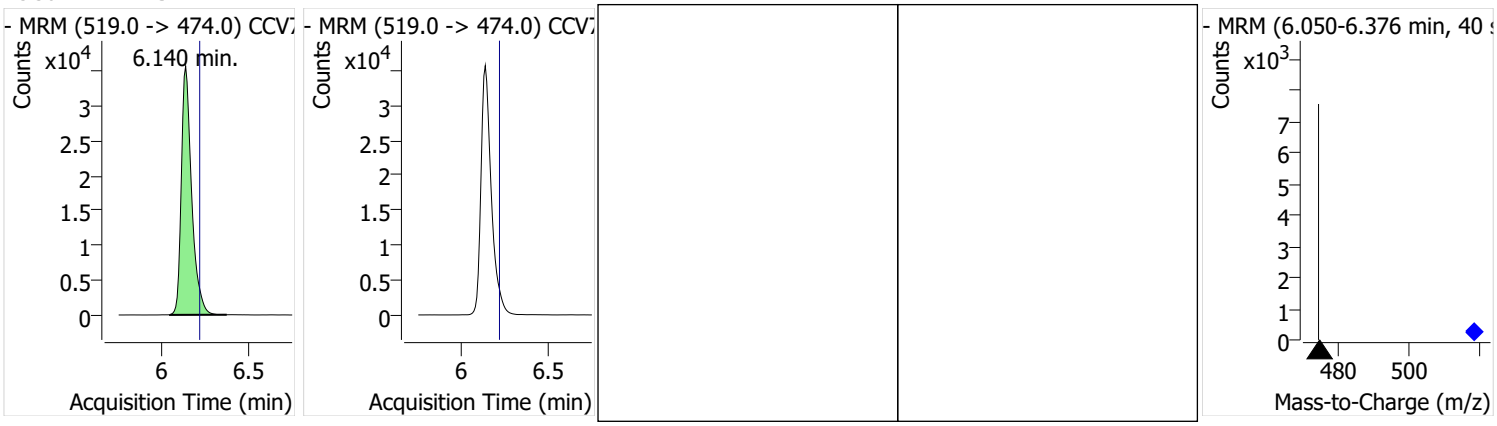
13C5-PFNA



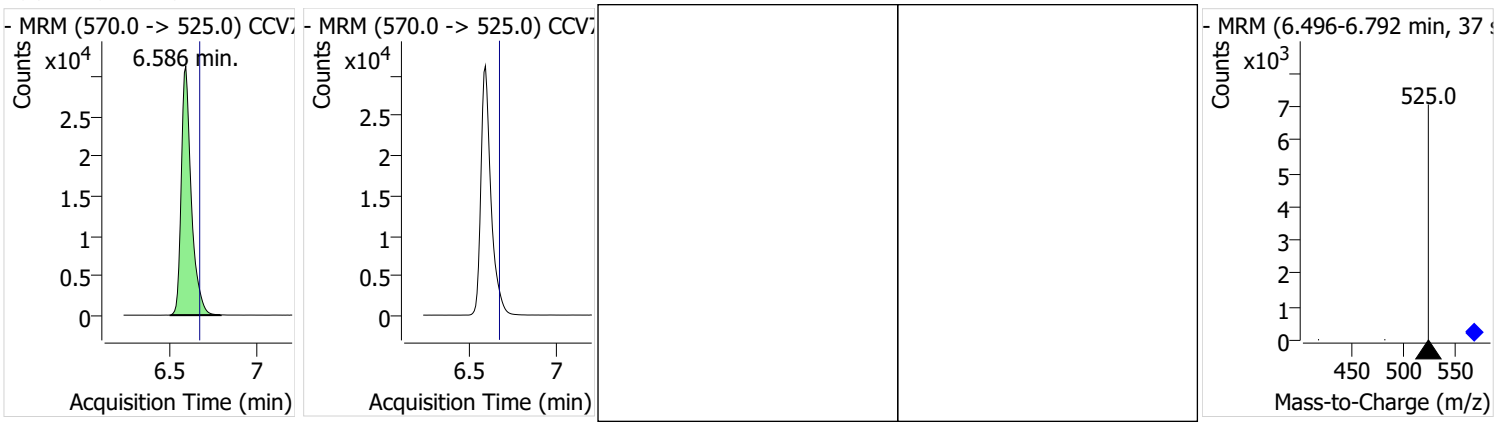
13C5-PFPeA - ISTD



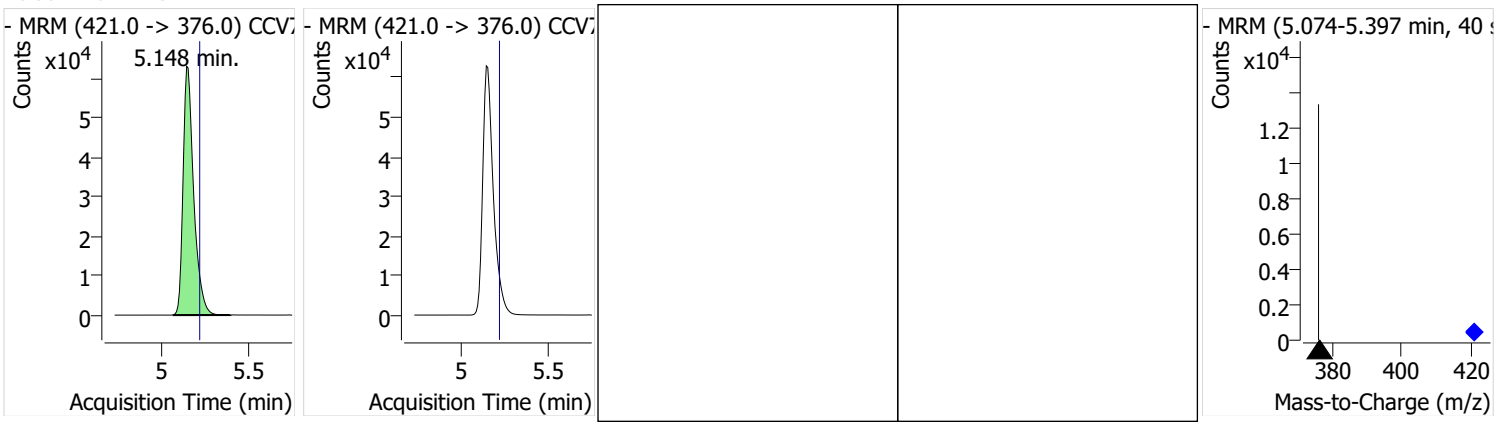
13C6-PFDA - ISTD



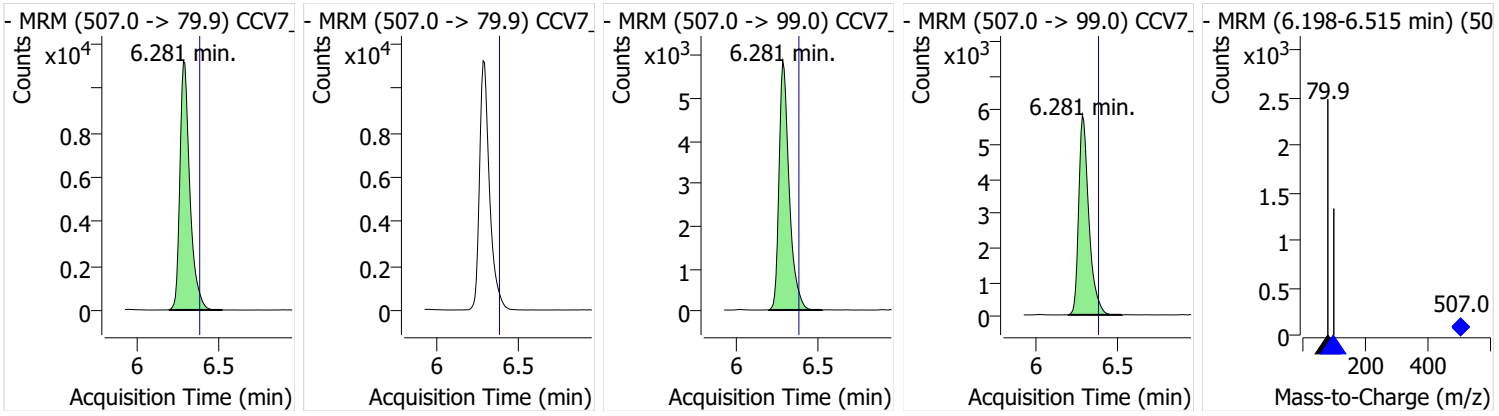
13C7-PFUnA - ISTD



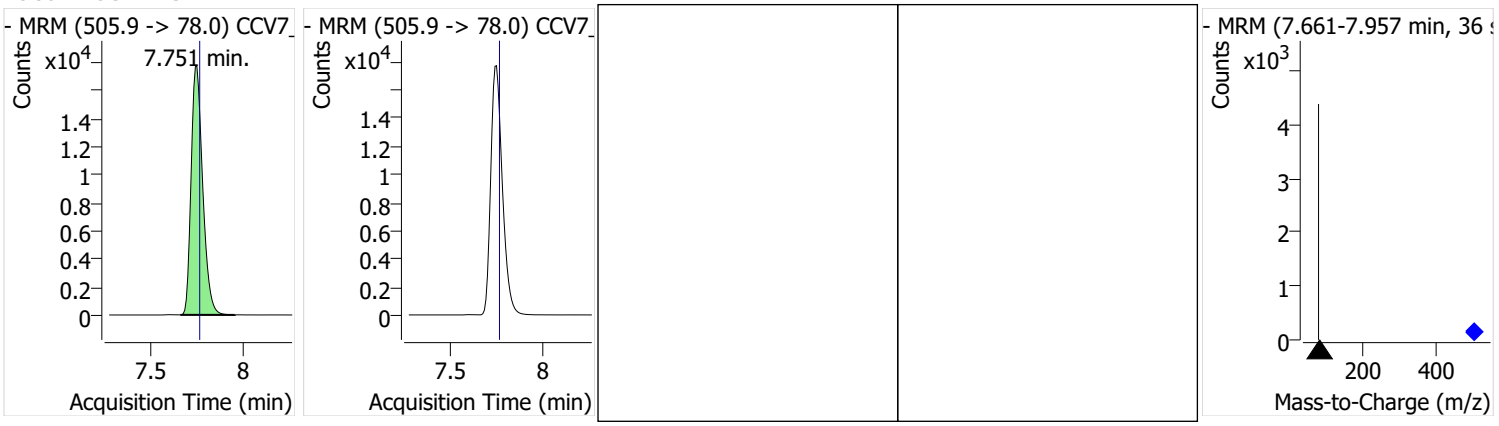
13C8-PFOA - ISTD



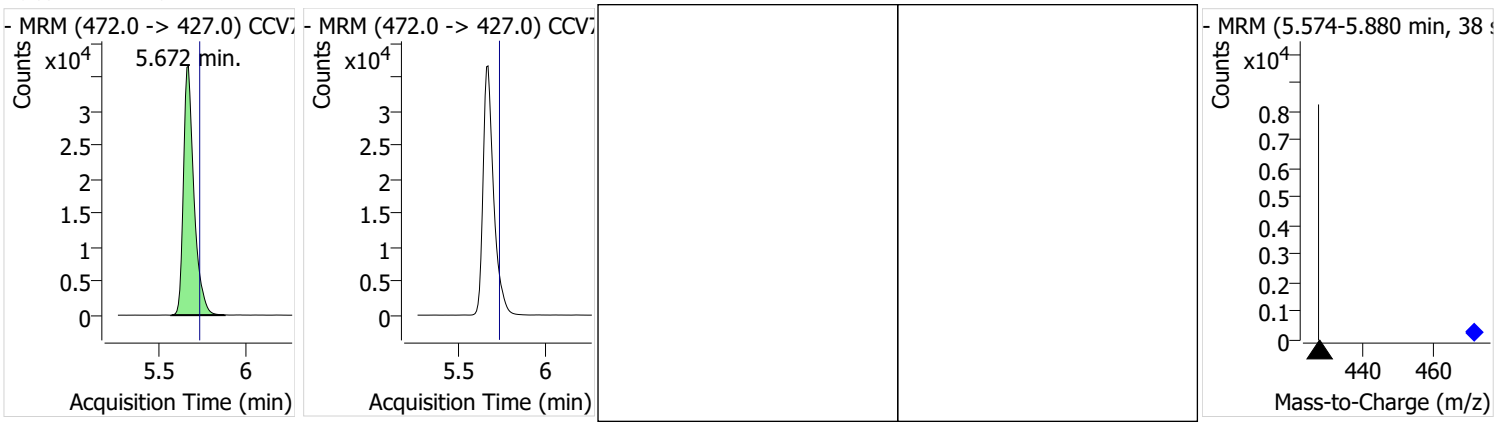
13C8-PFOS - ISTD



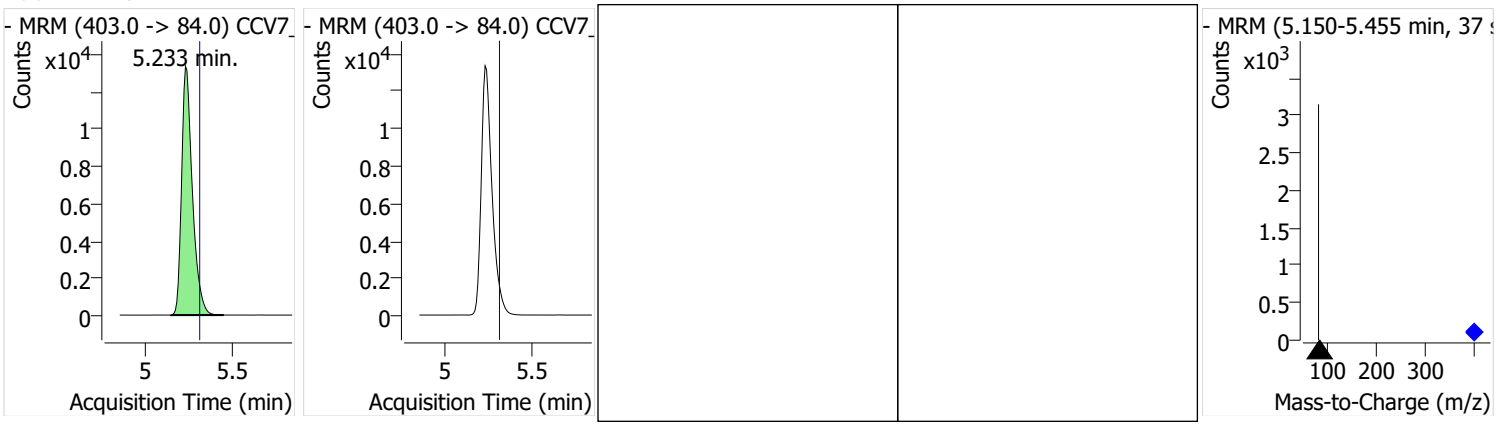
13C8-PFOSA - ISTD



13C9-PFNA - ISTD



18O2-PFHxS



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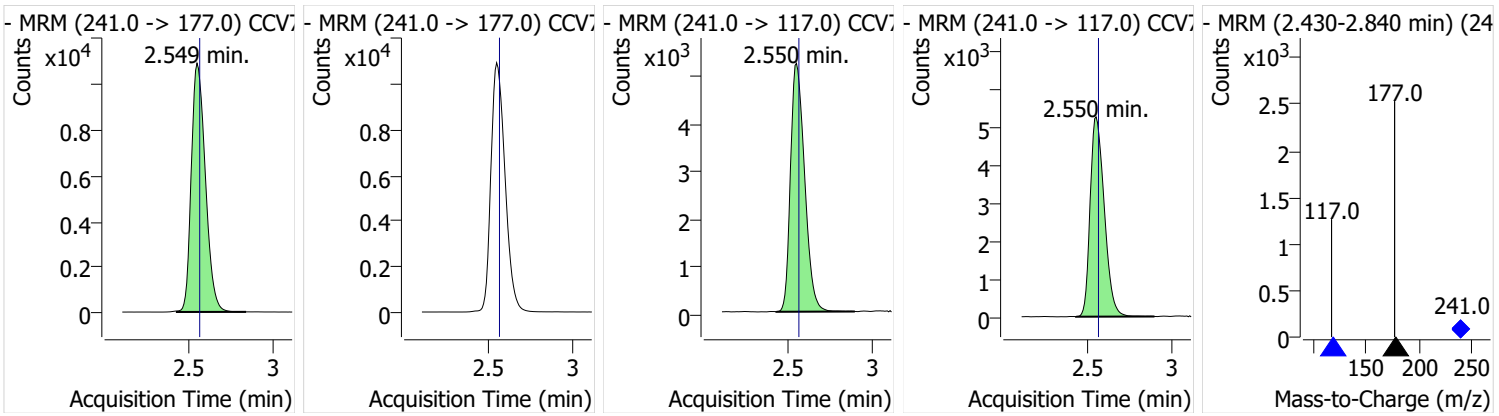
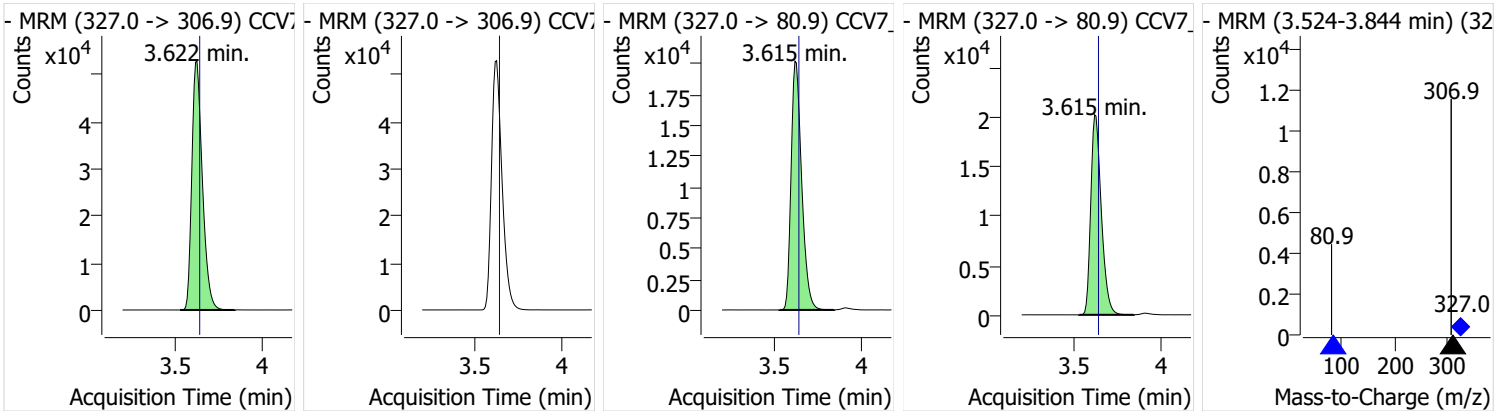


4:2FTS



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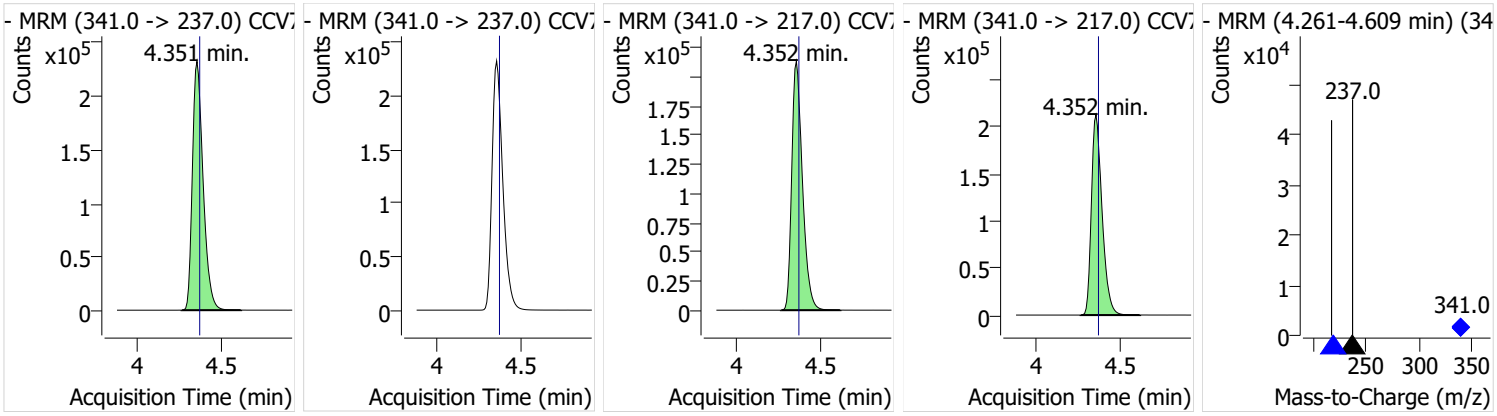
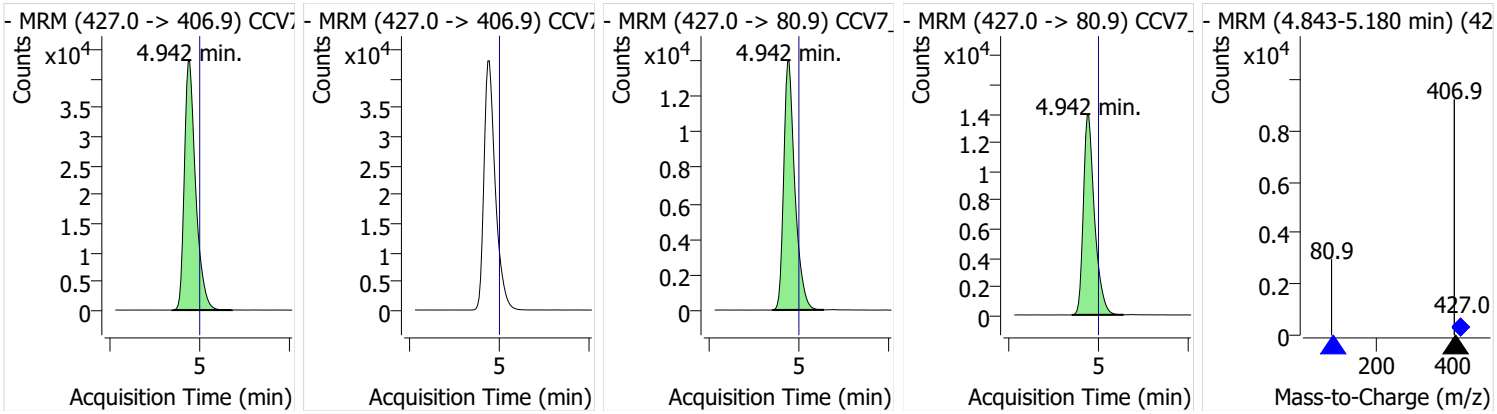
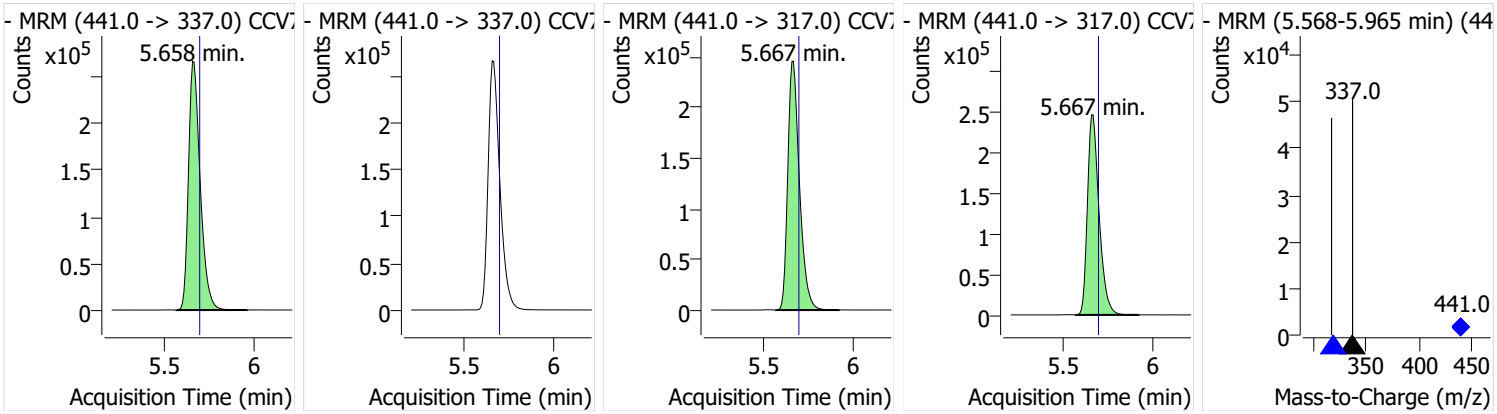


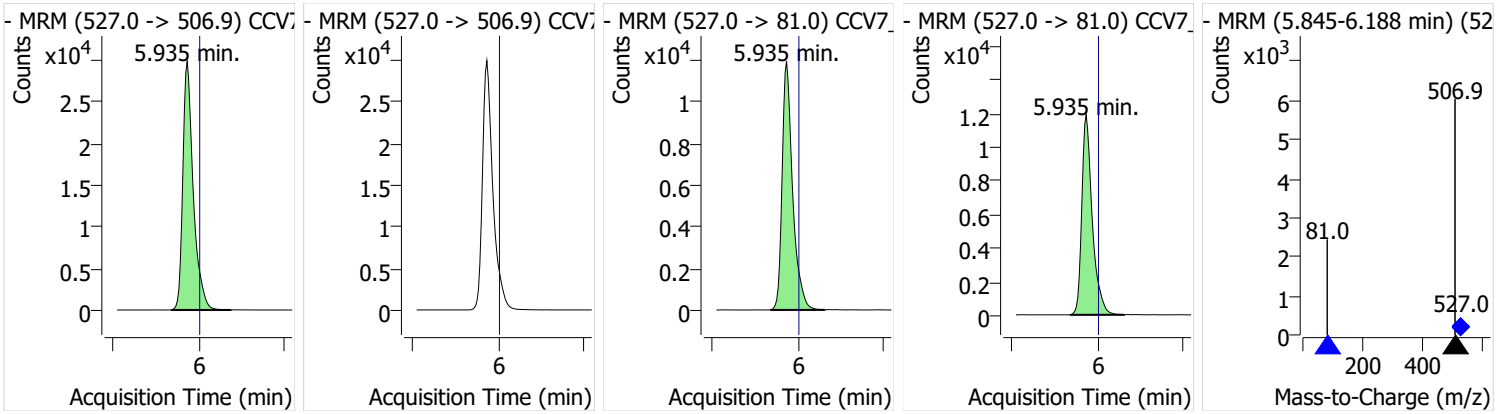
6:2FTS



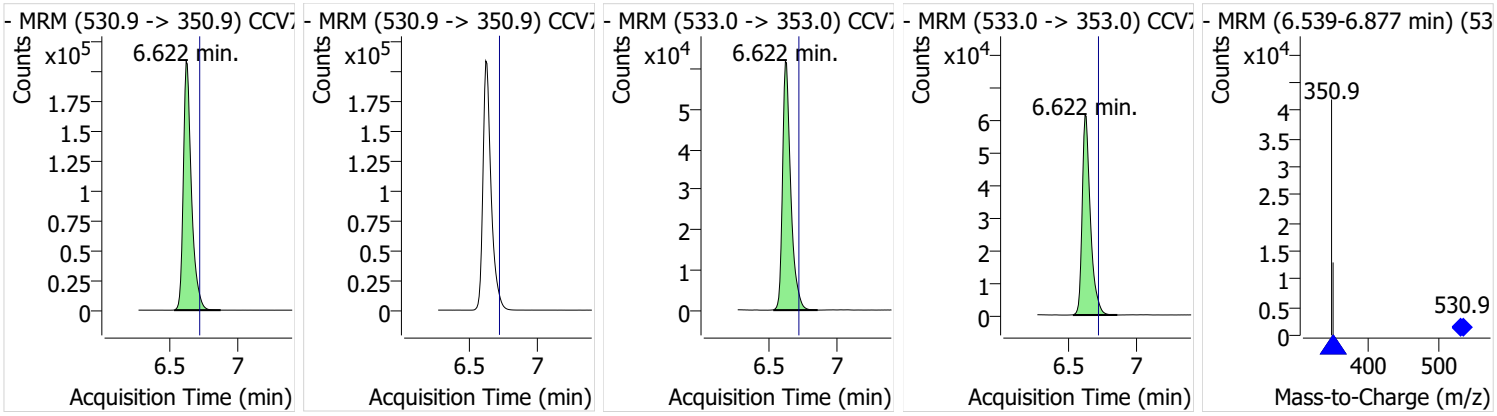
7:3FTCA



8:2FTS



9Cl-PF3ONS



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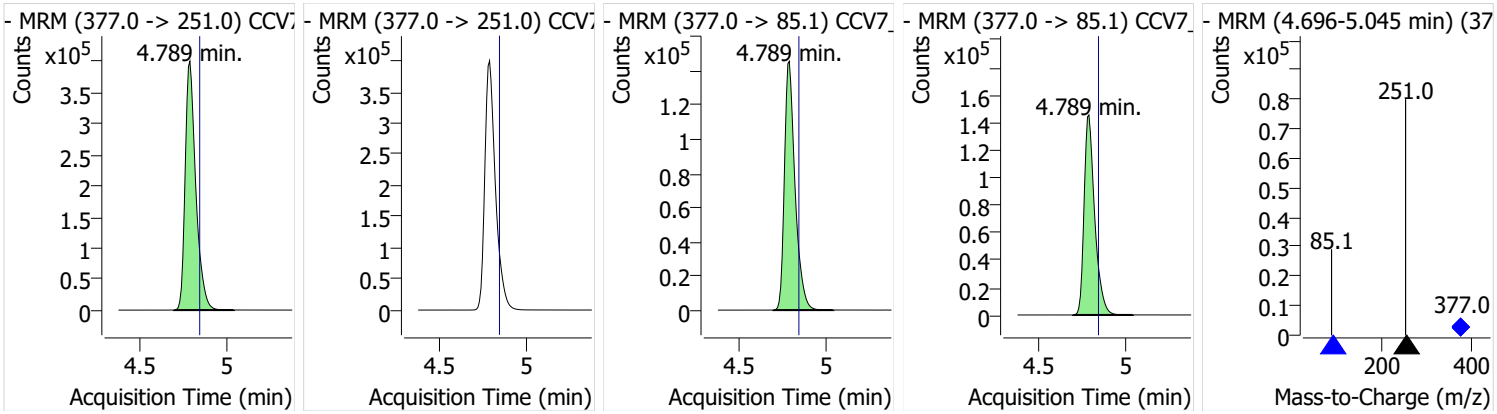
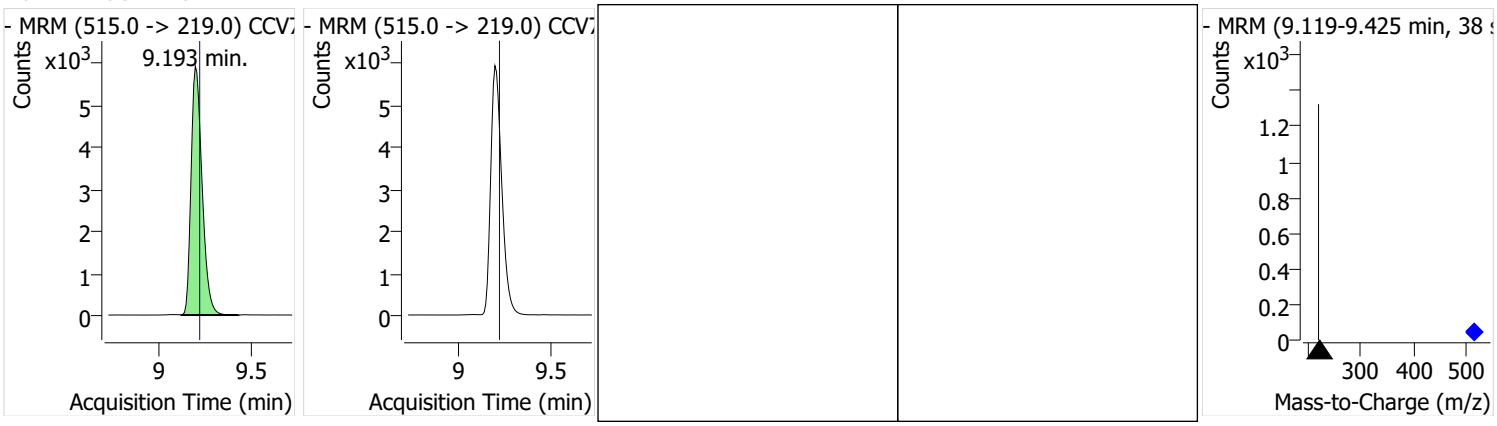
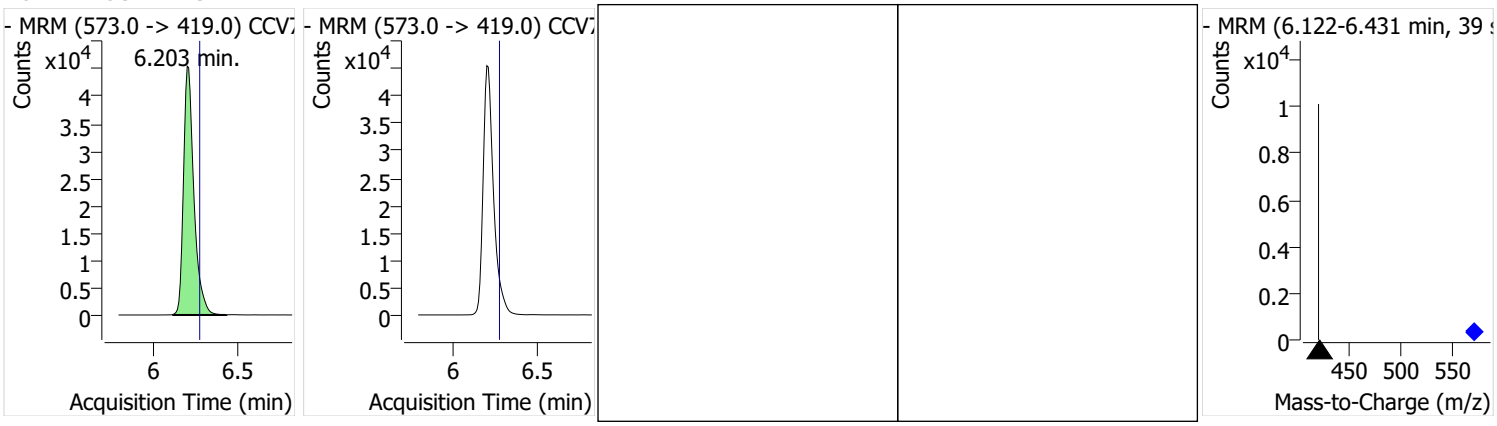


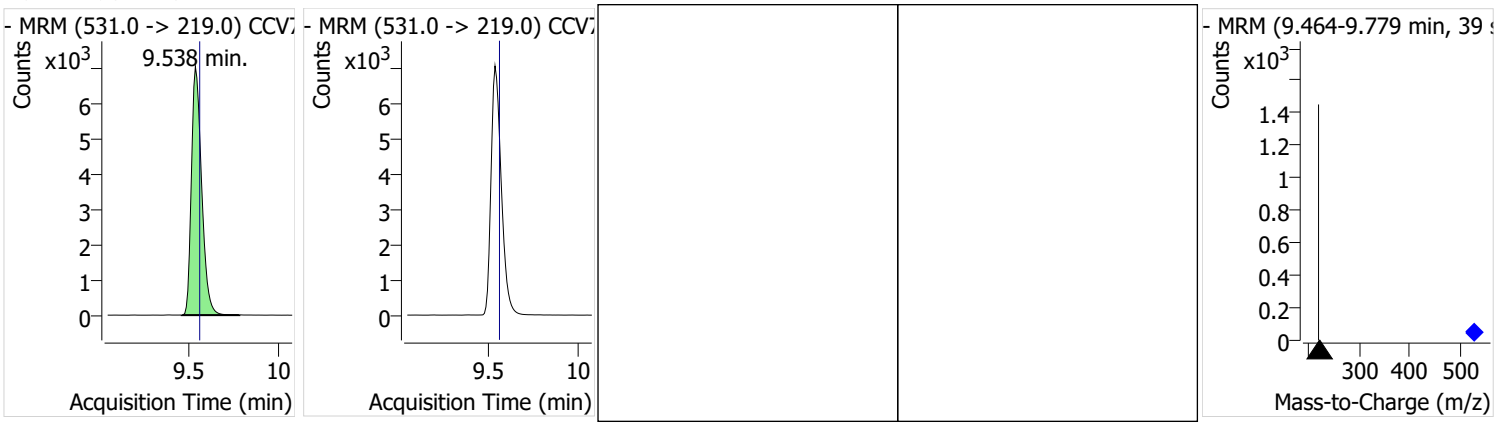
D3-NMeFOSA - ISTD



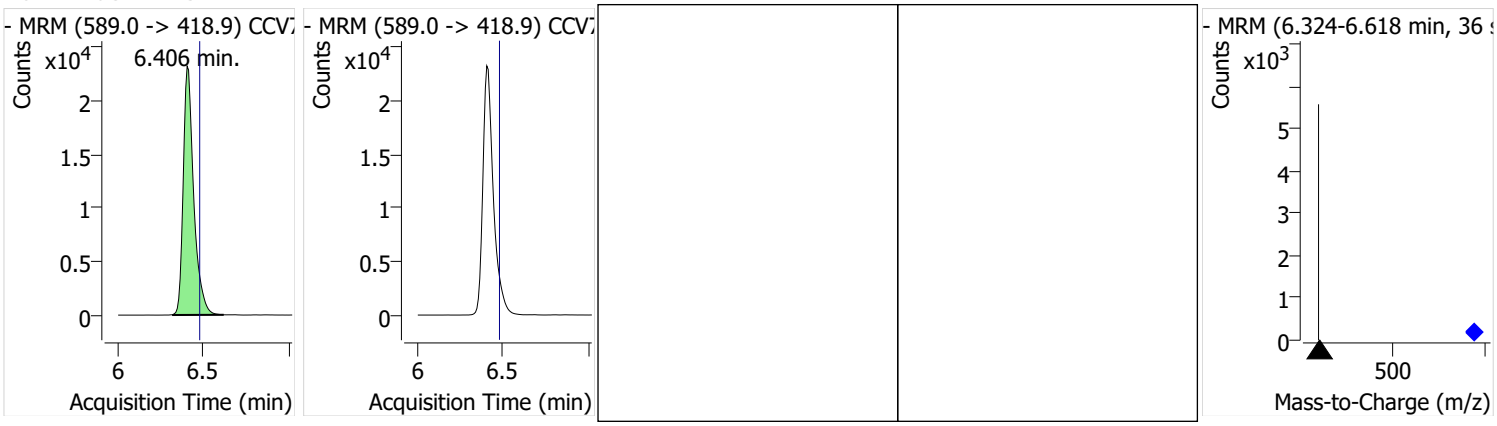
D3-NMeFOSAA - ISTD



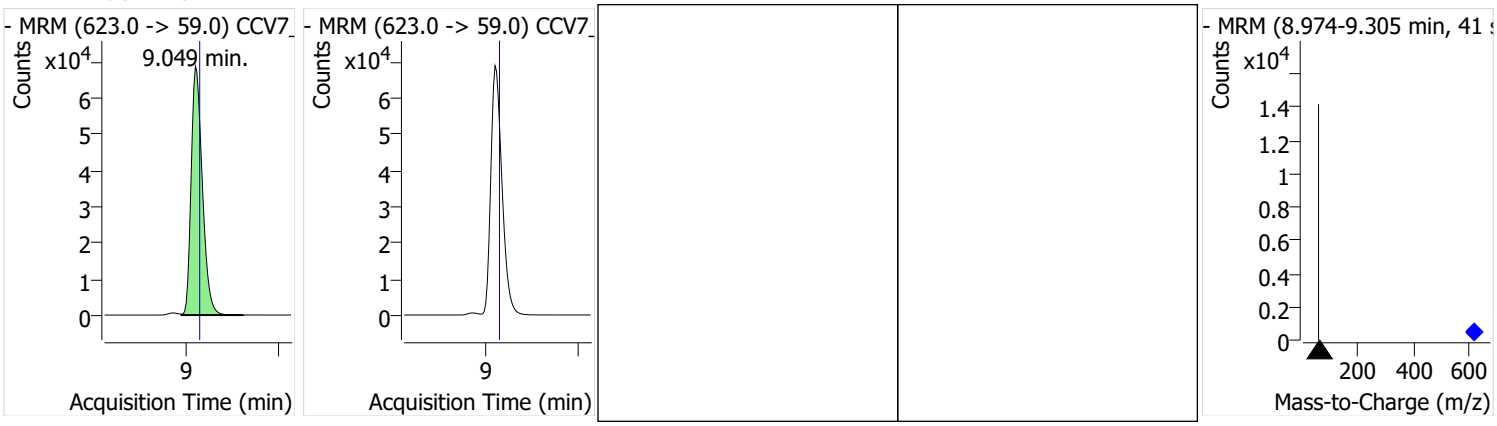
D5-NEtFOSA - ISTD



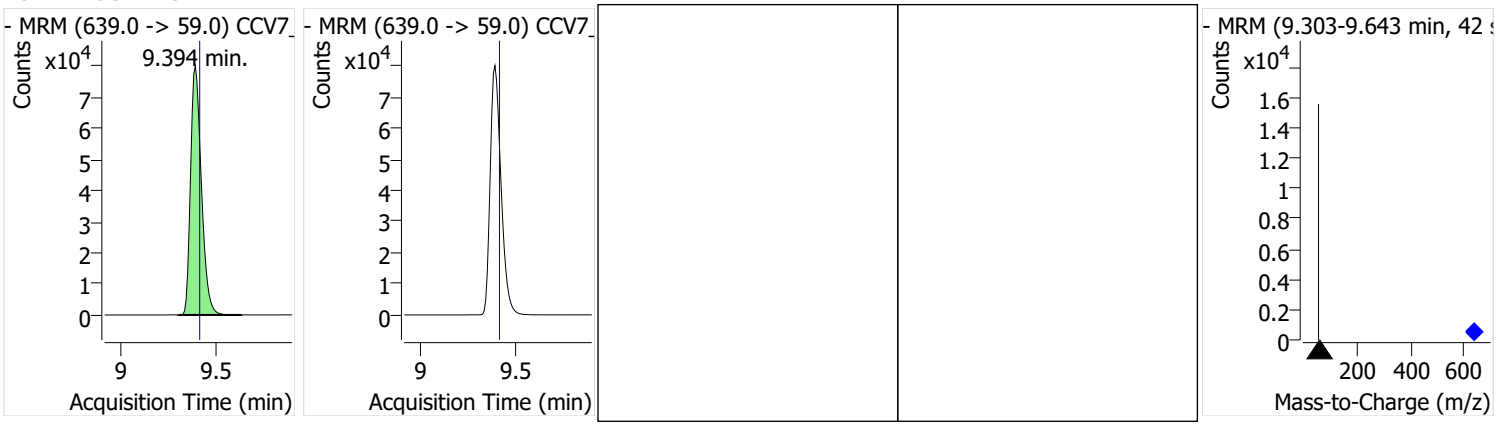
D5-NEtFOSAA - ISTD



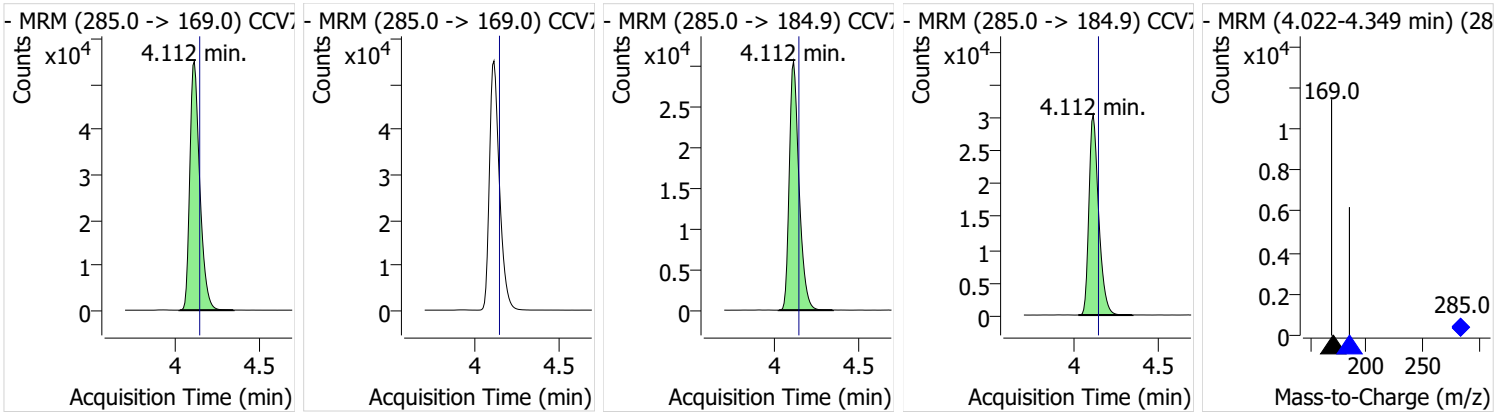
D7-NMeFOSE - ISTD



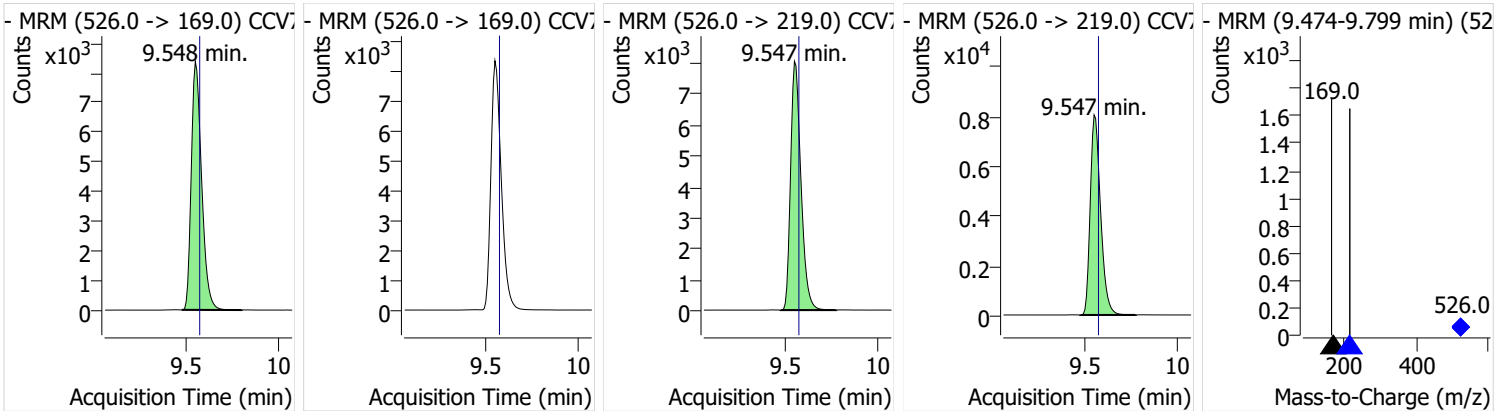
D9-NEtFOSE - ISTD



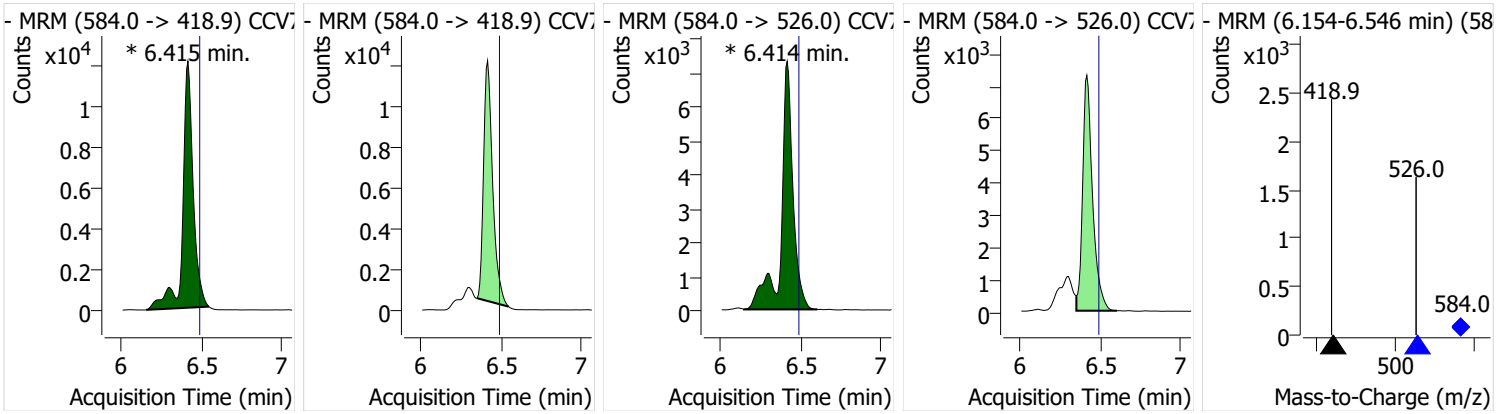
HFPO-DA



NEtFOSA



NEtFOSAA



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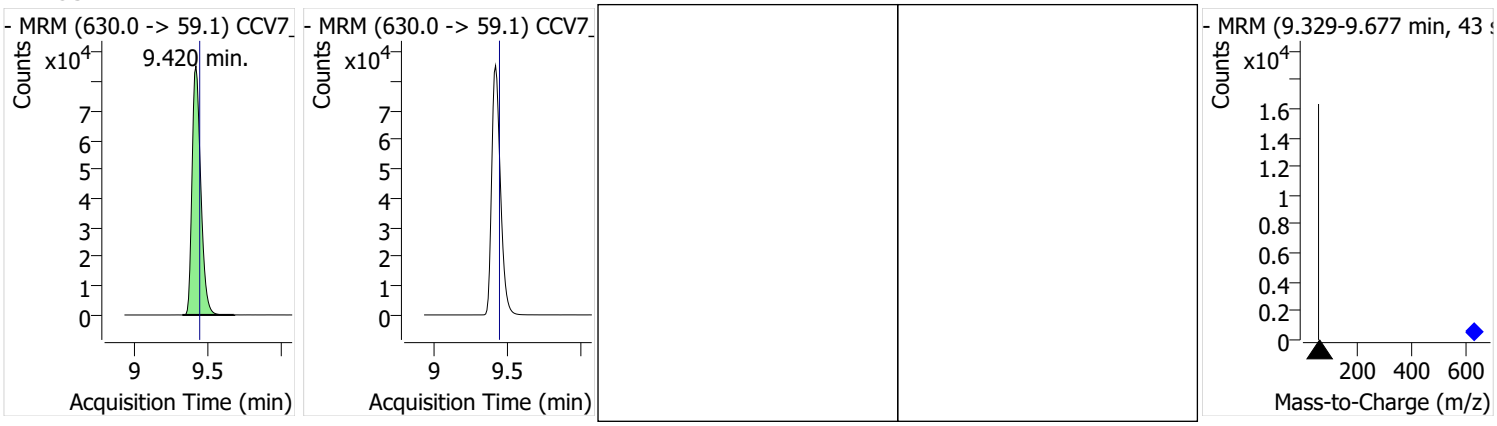

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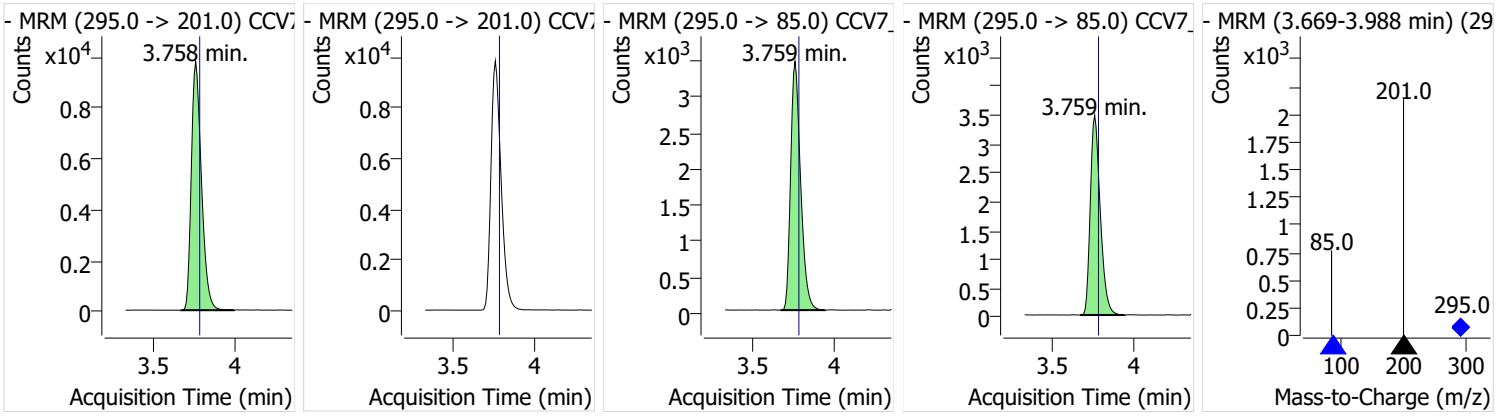
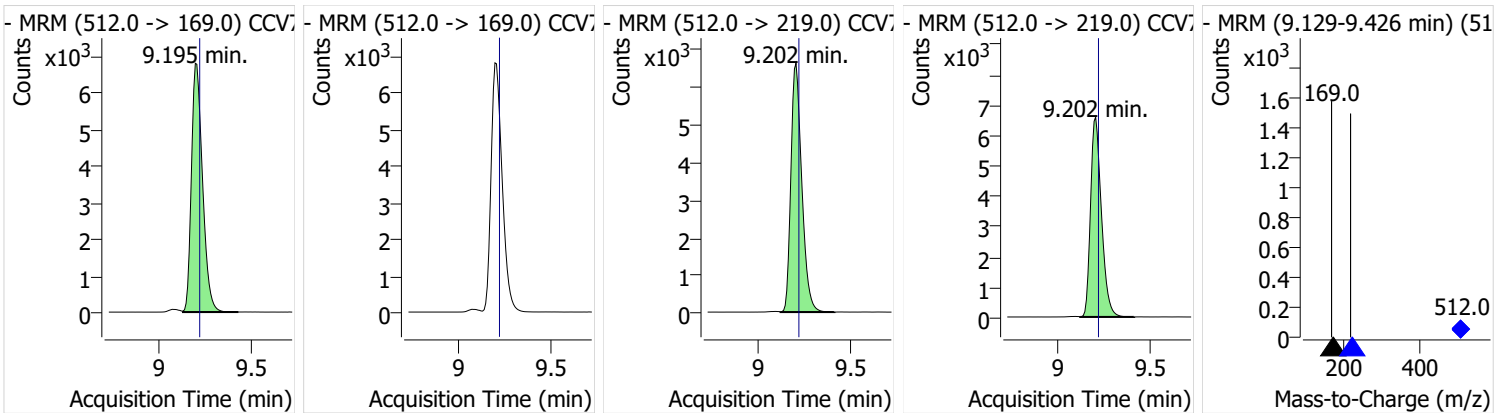


NMeFOSA



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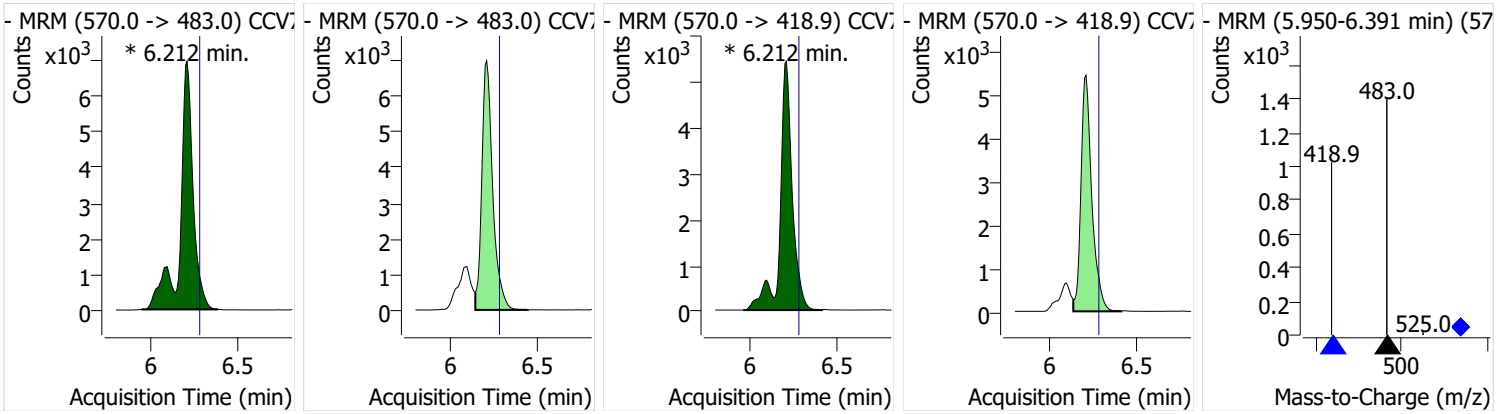

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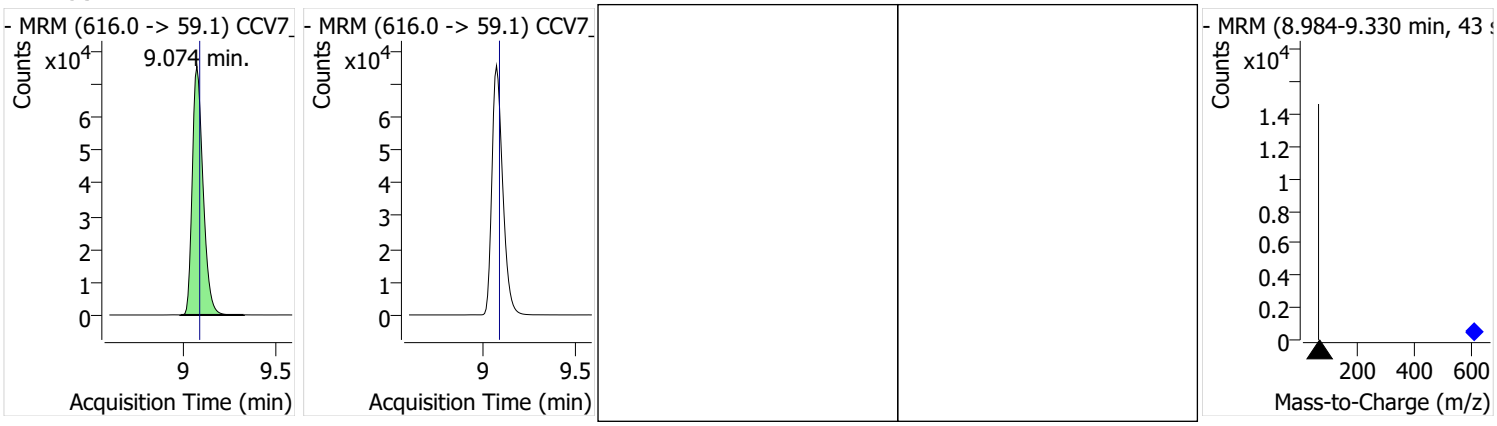

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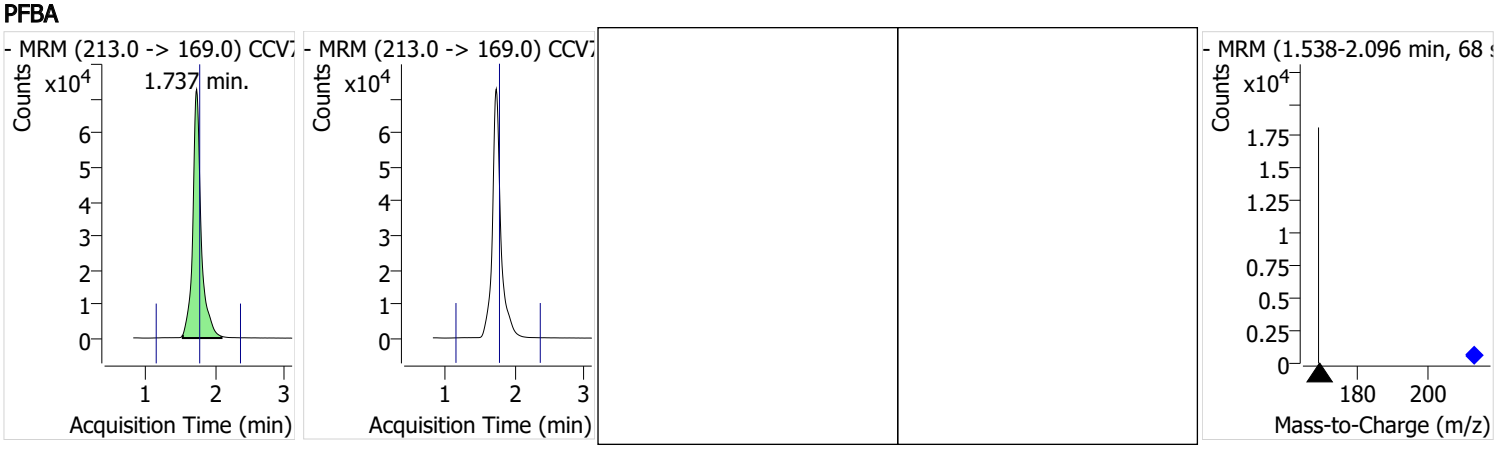

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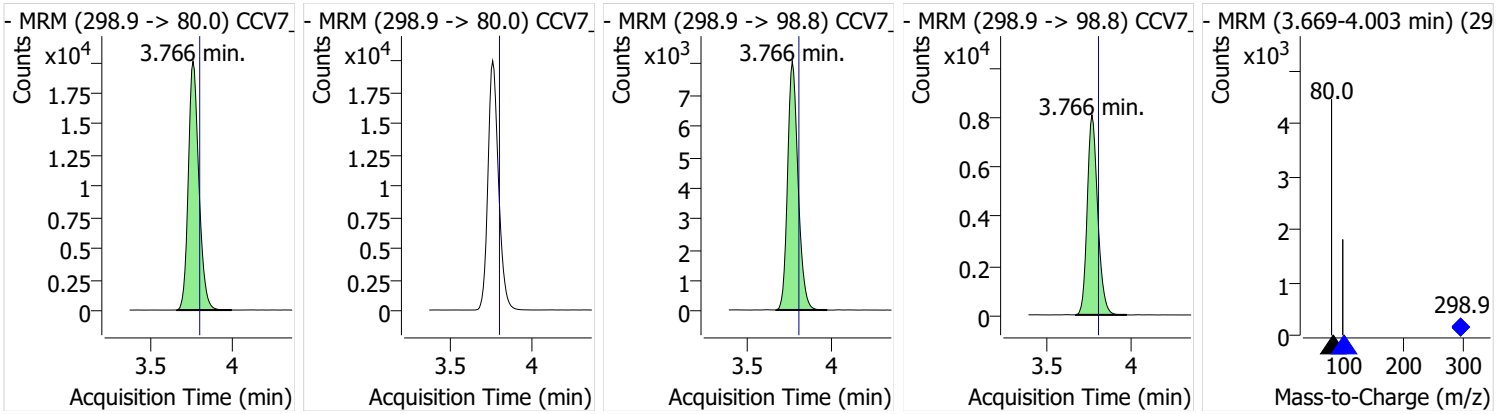

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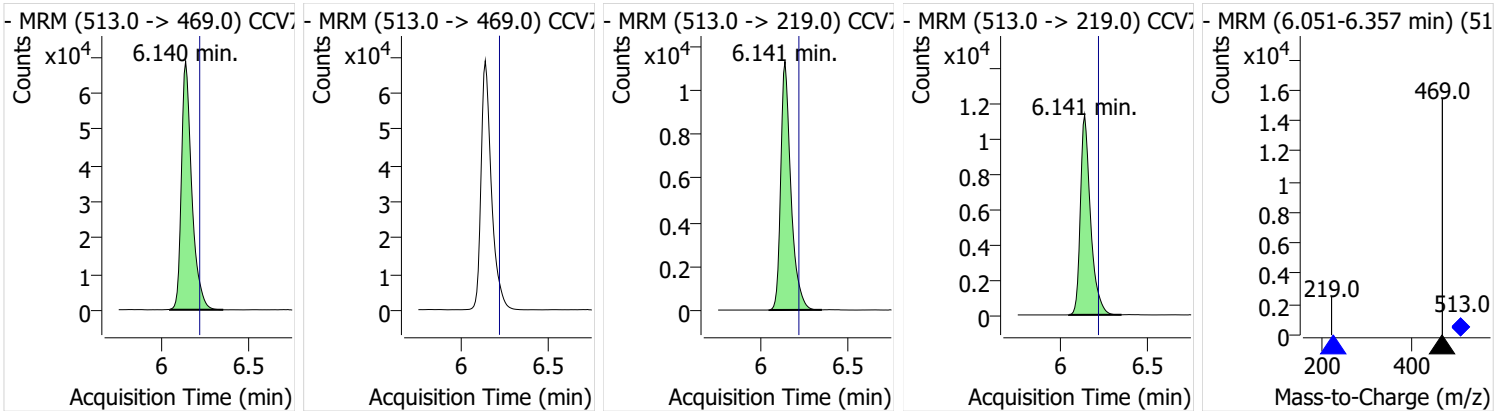

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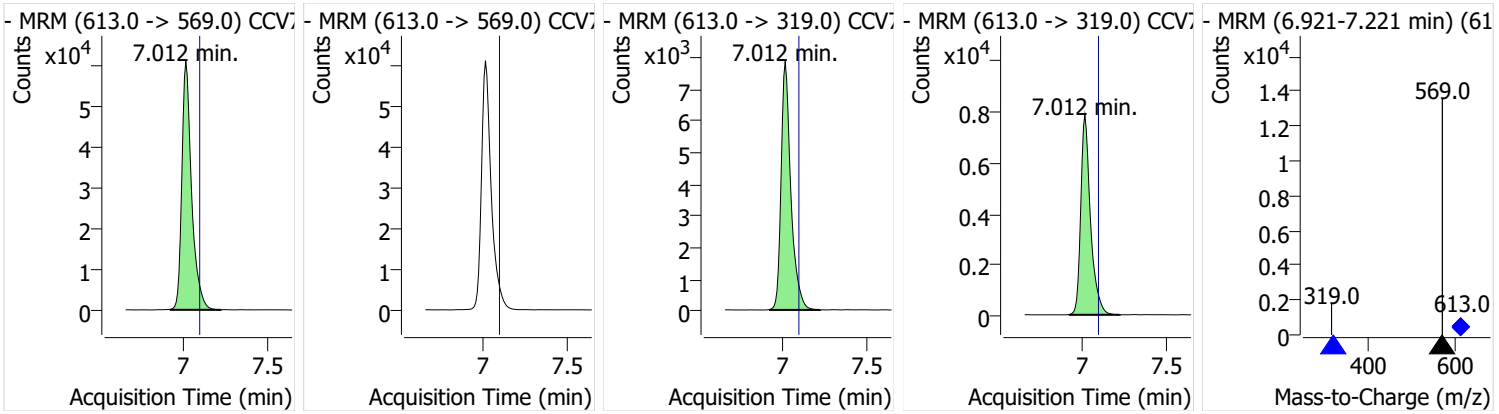

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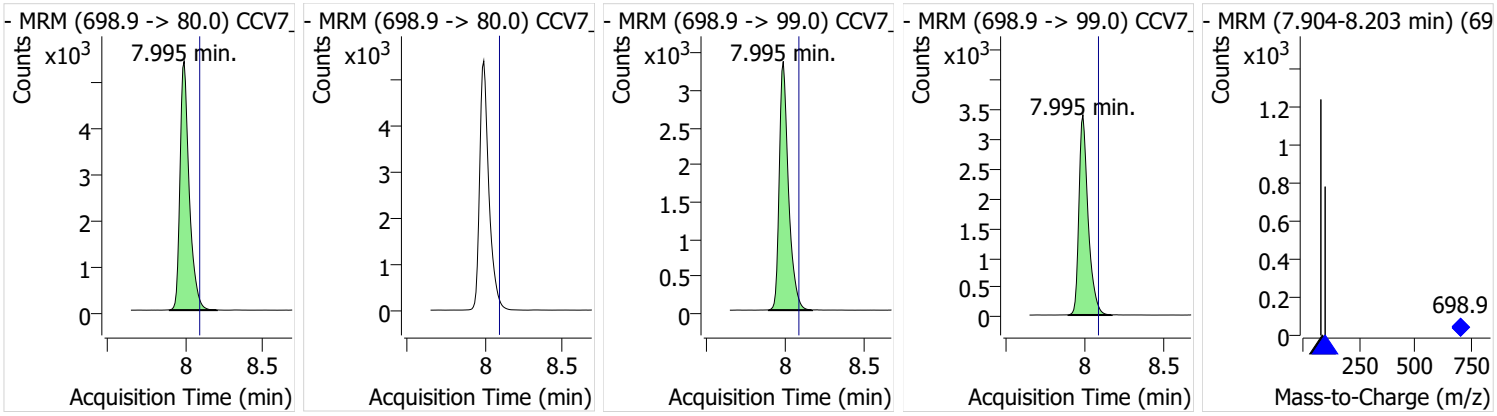
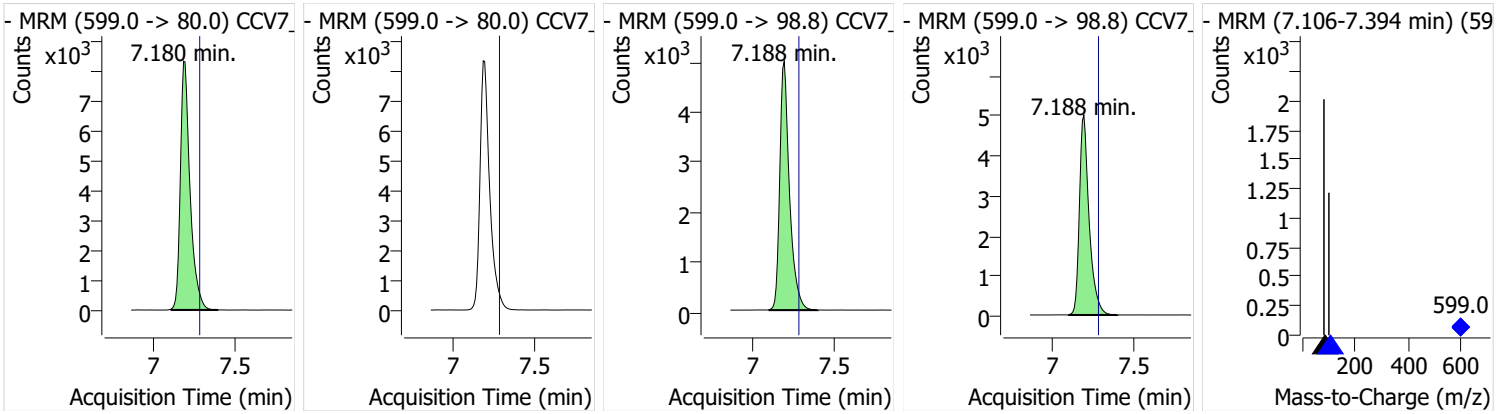


PFDS



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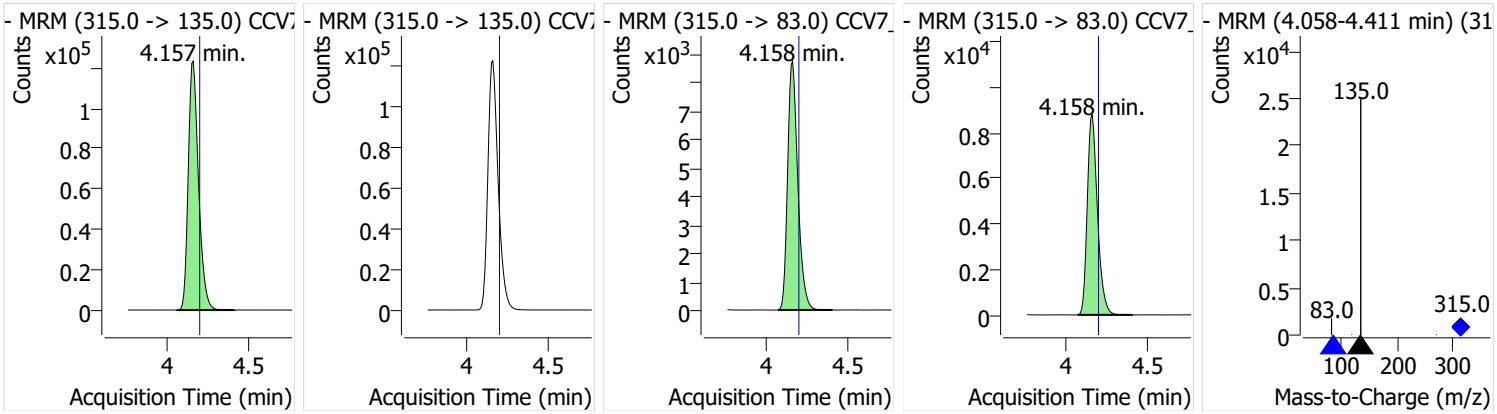
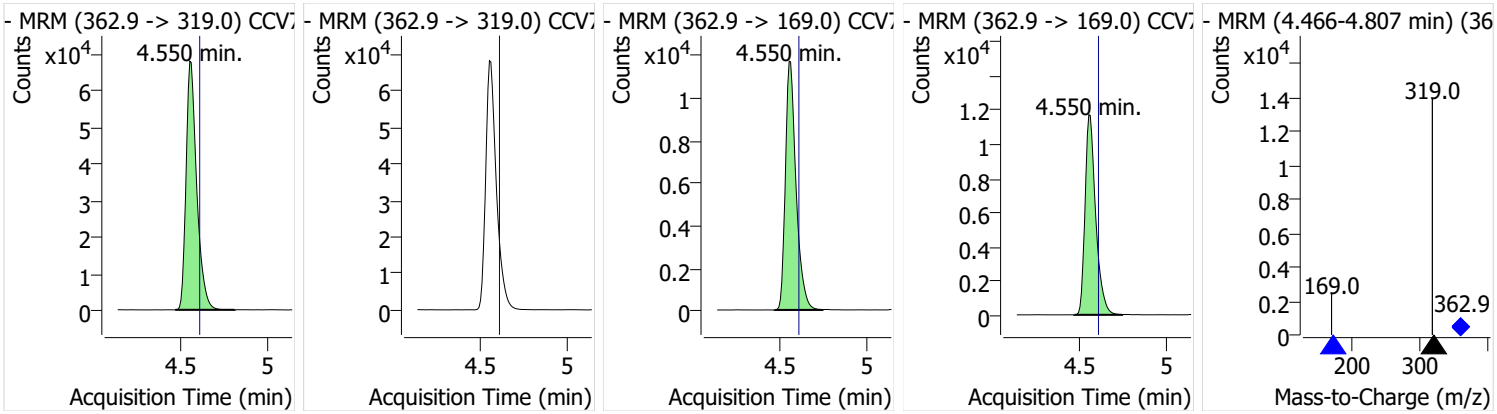


PFHpA



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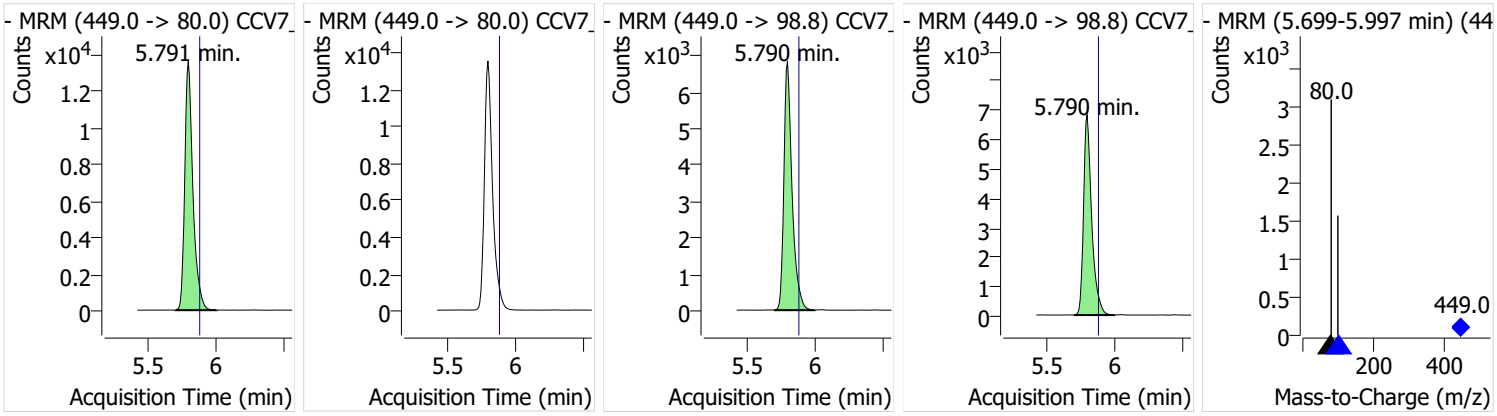

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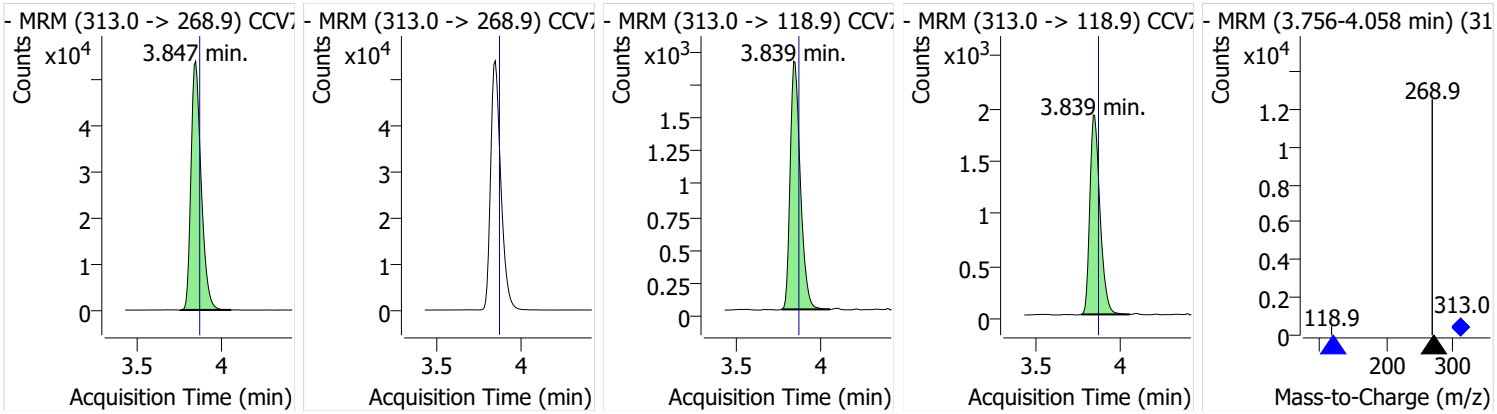

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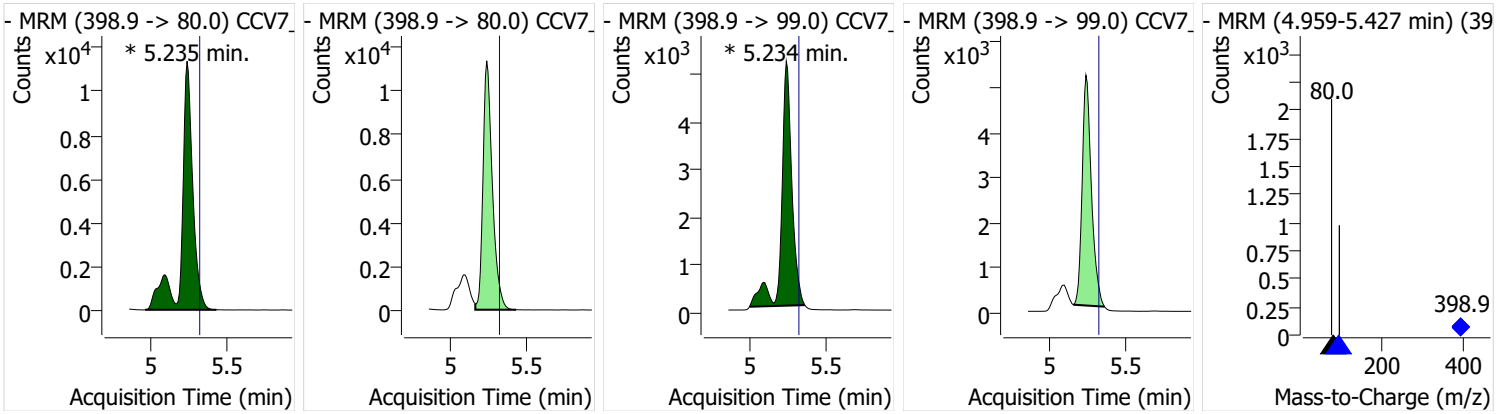

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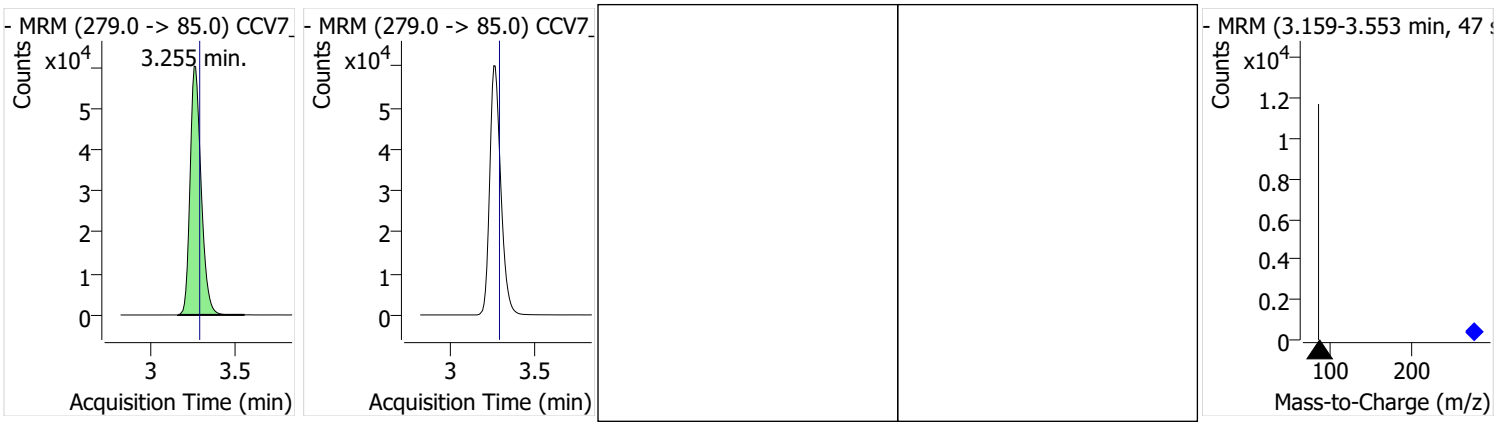

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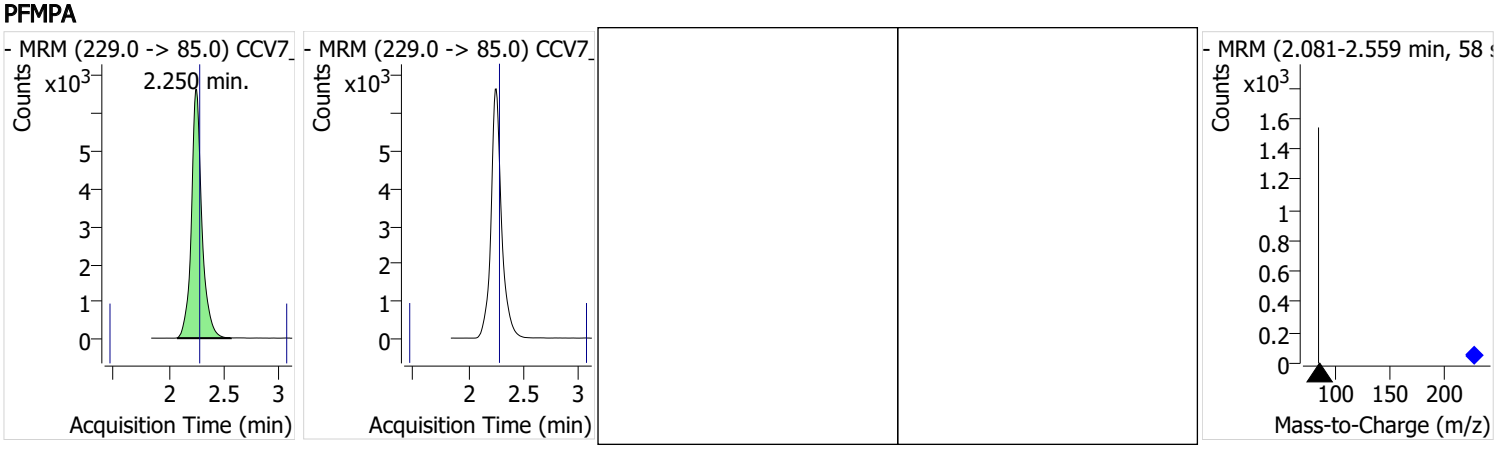

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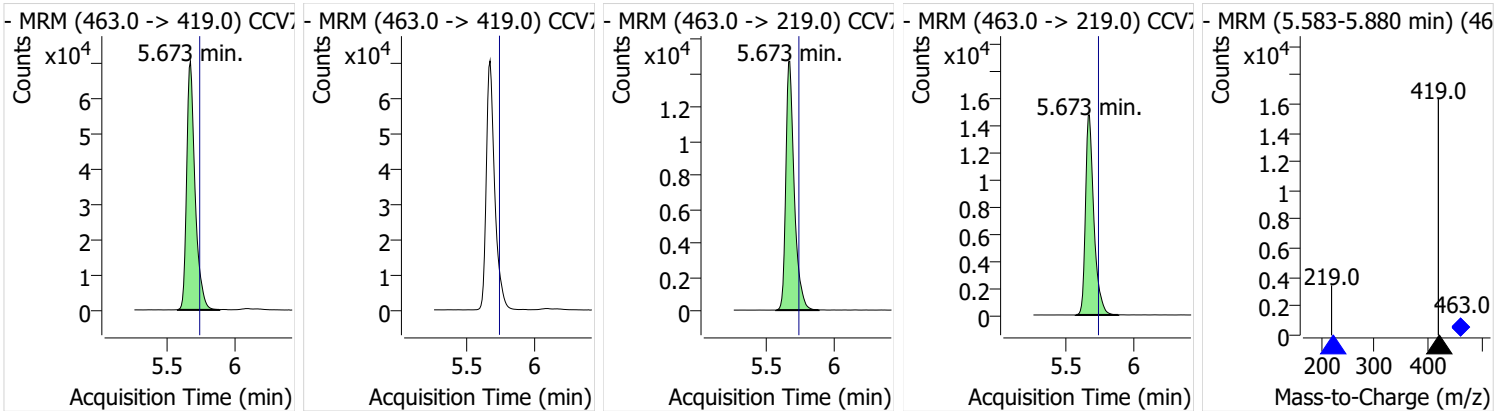

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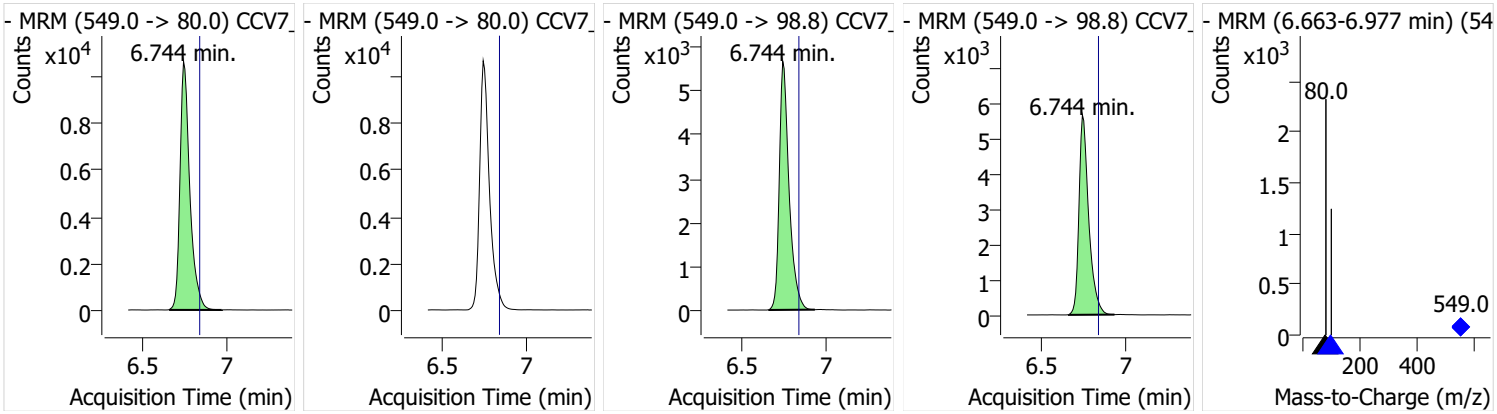

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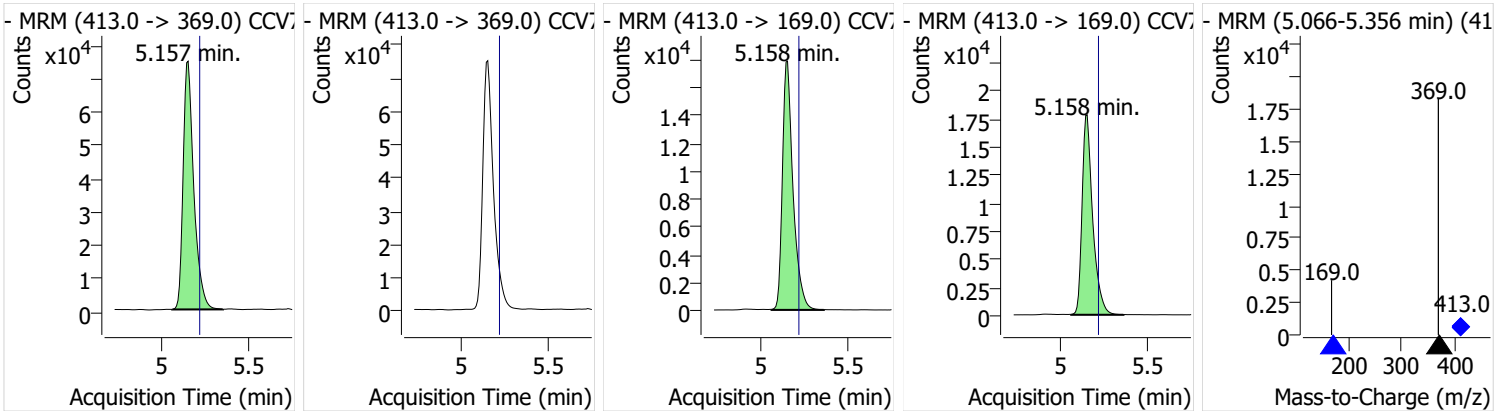
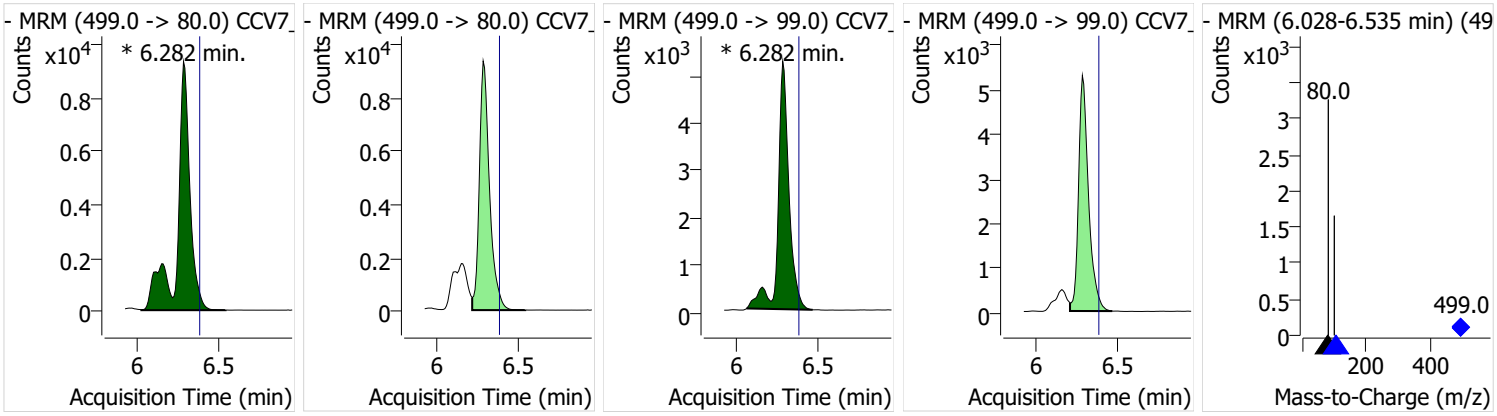
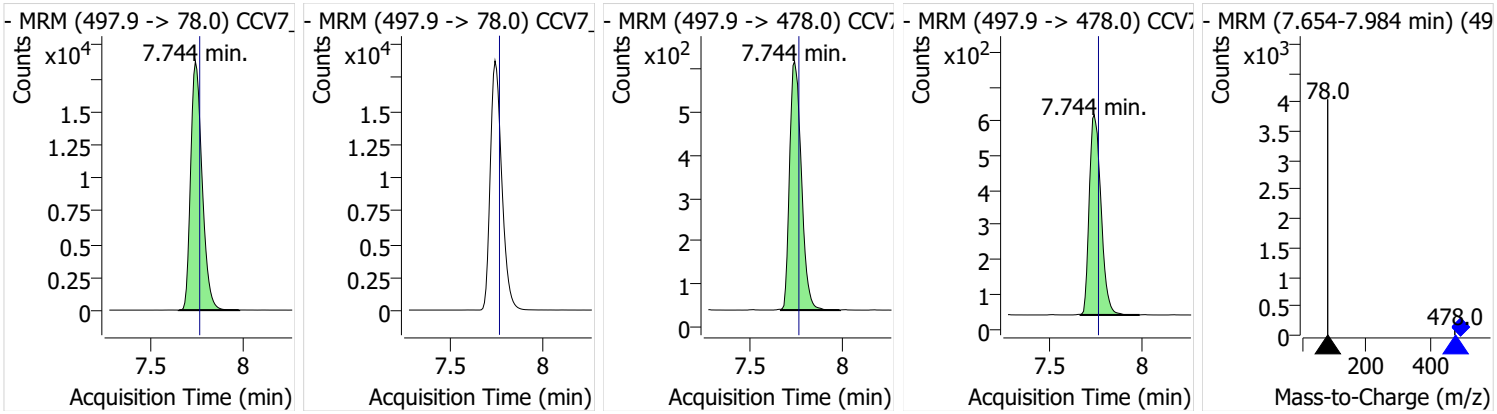


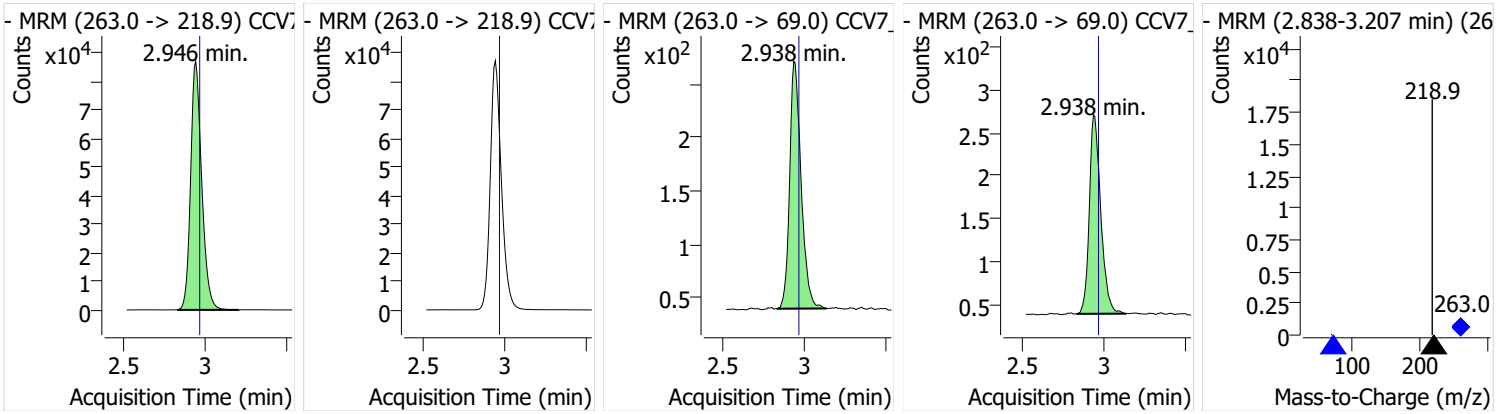
PFOS



PFOSA



PFPeA



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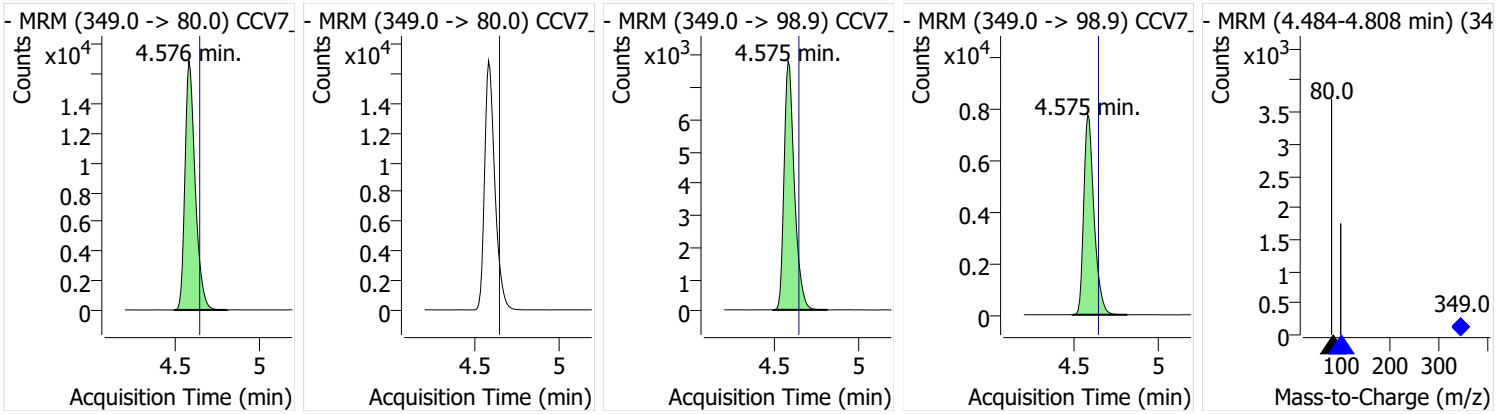

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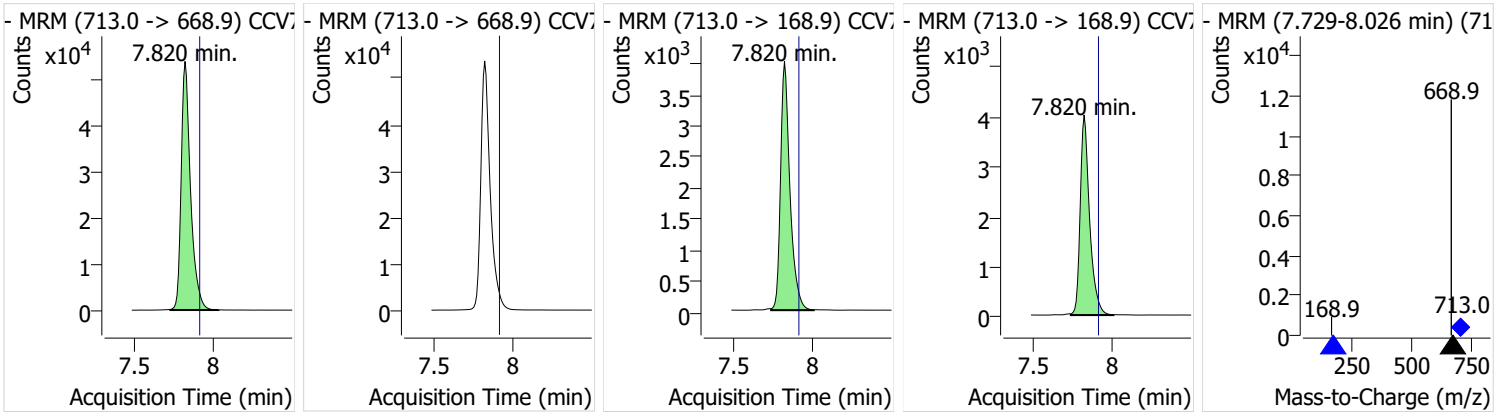
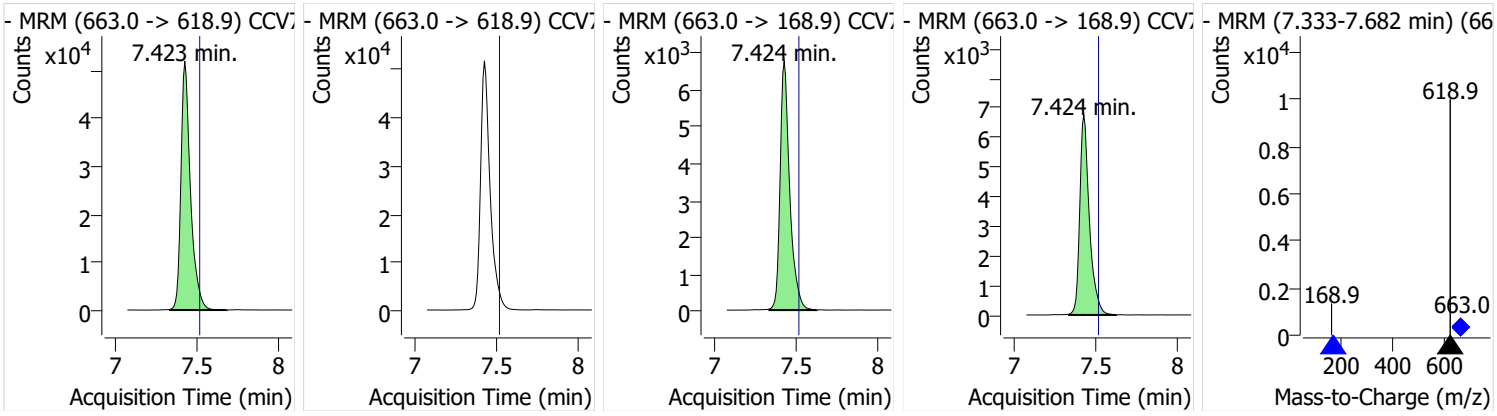
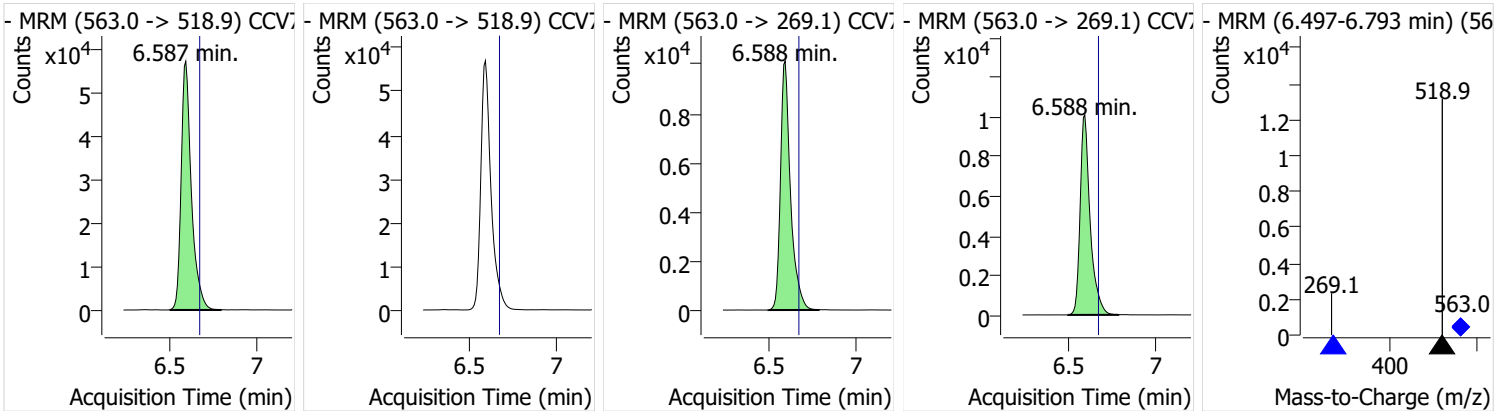


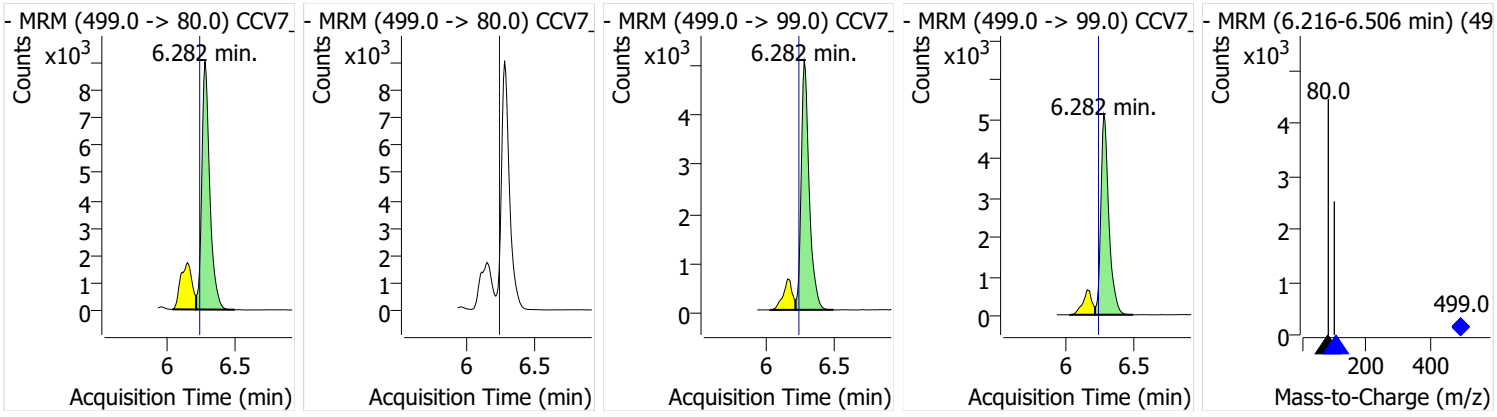
PFTrDA



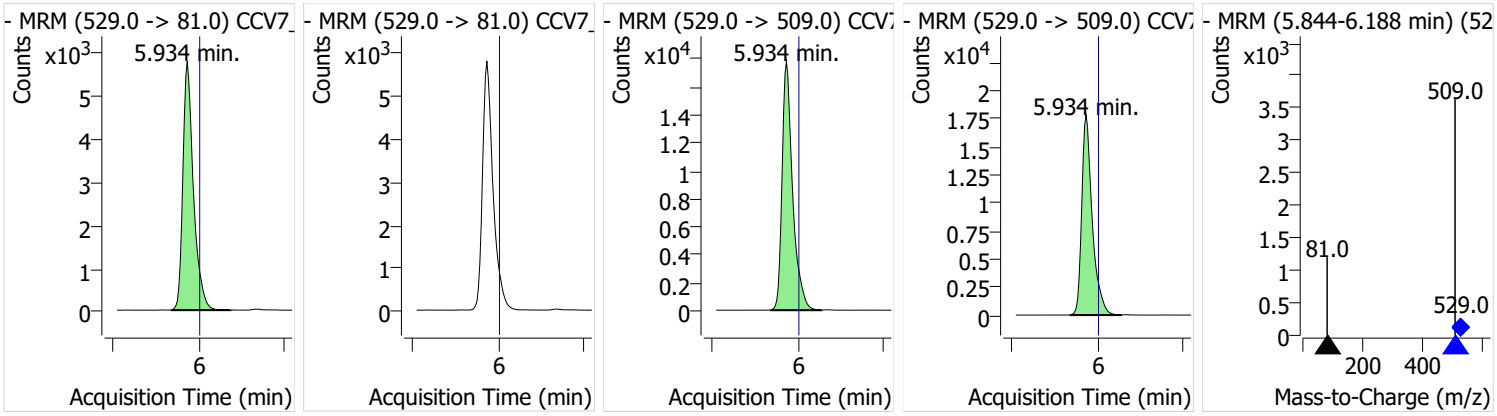
PFUnA



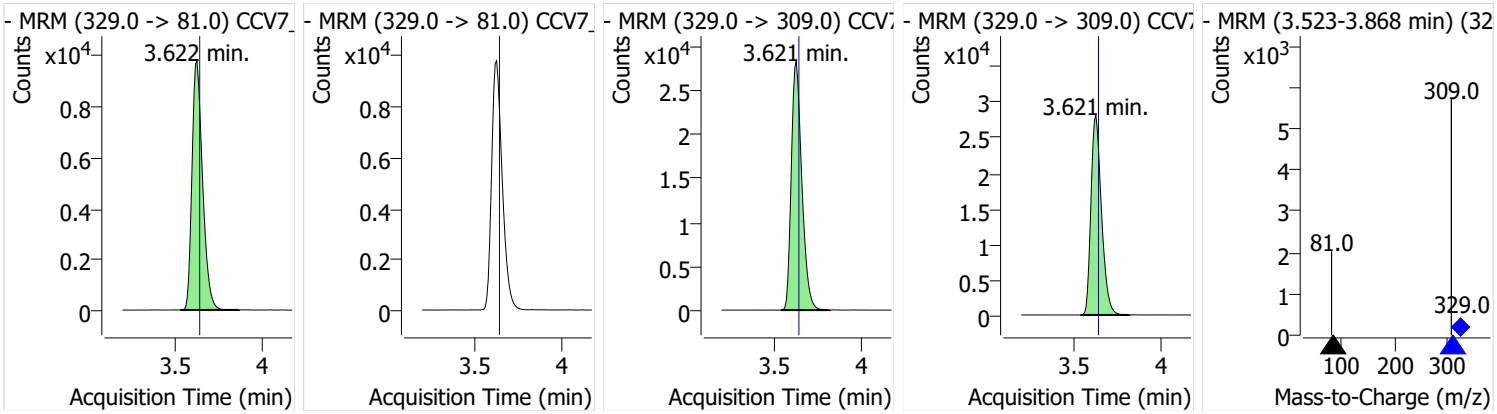
TDCA



13C2-8:2FTS



13C2-4:2FTS



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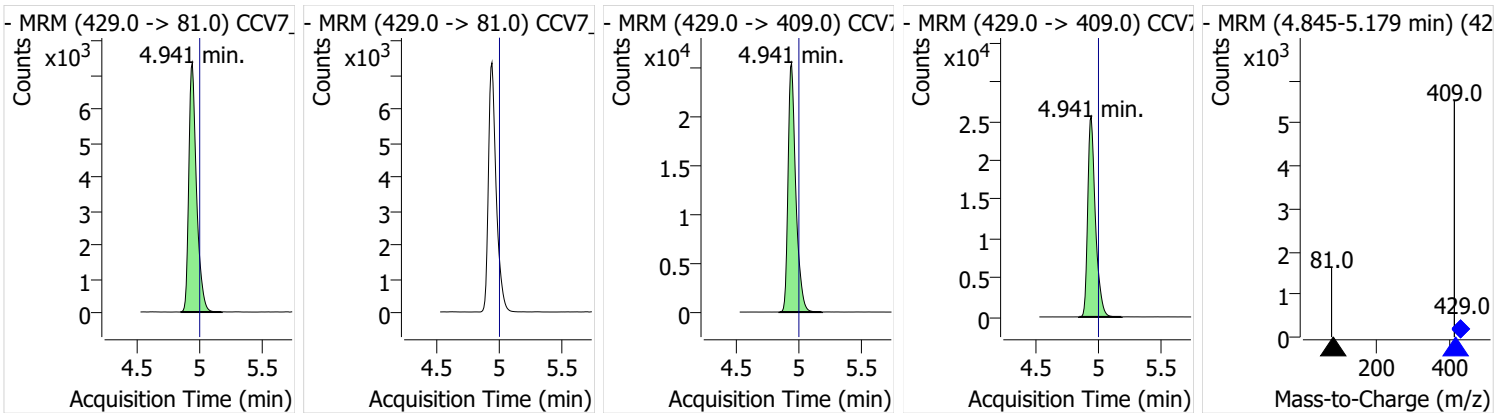

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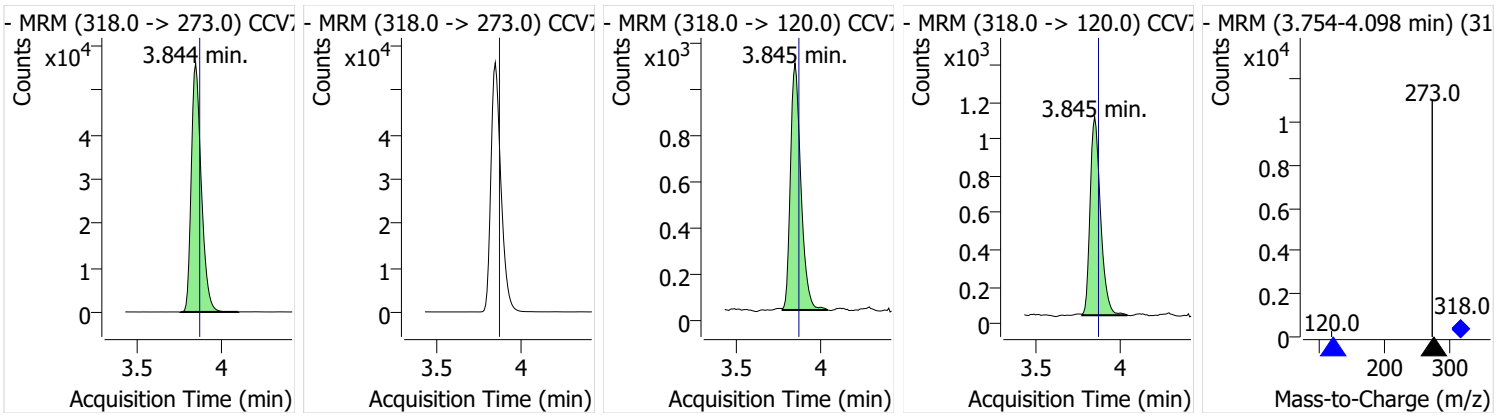

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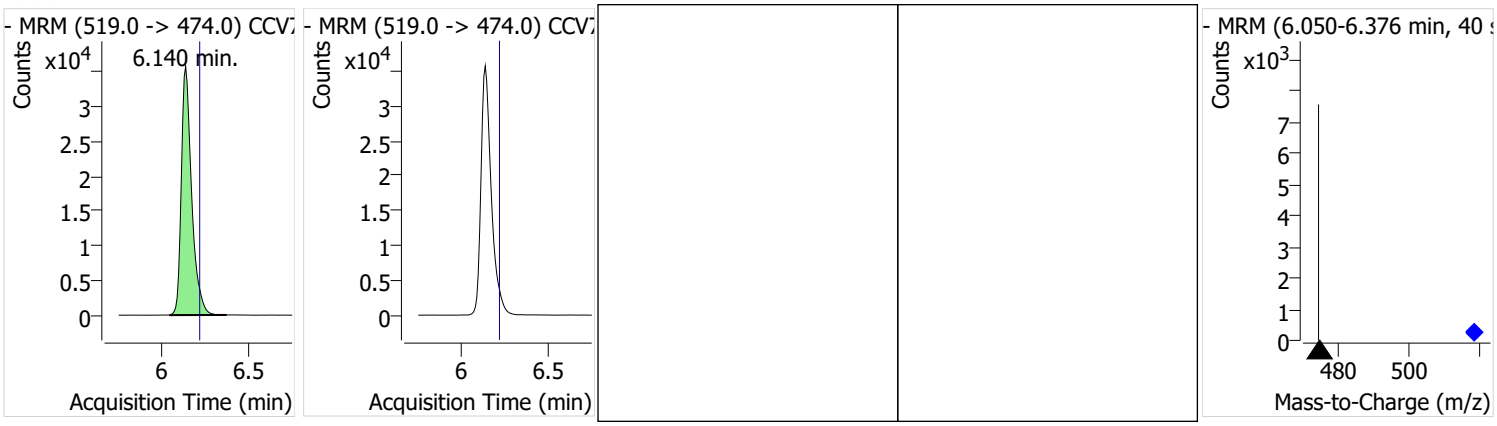

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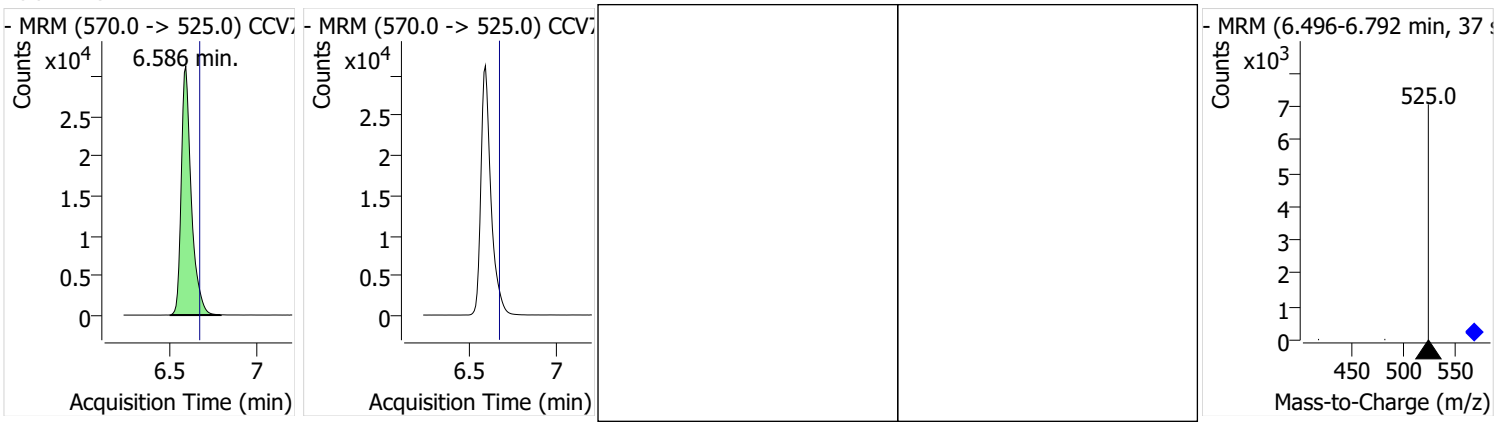

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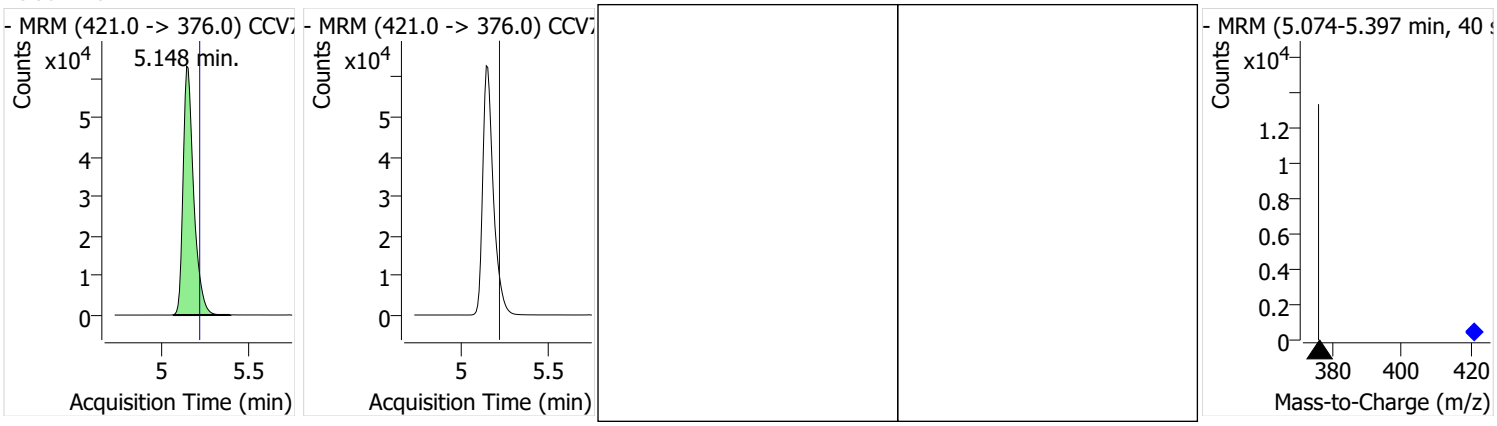

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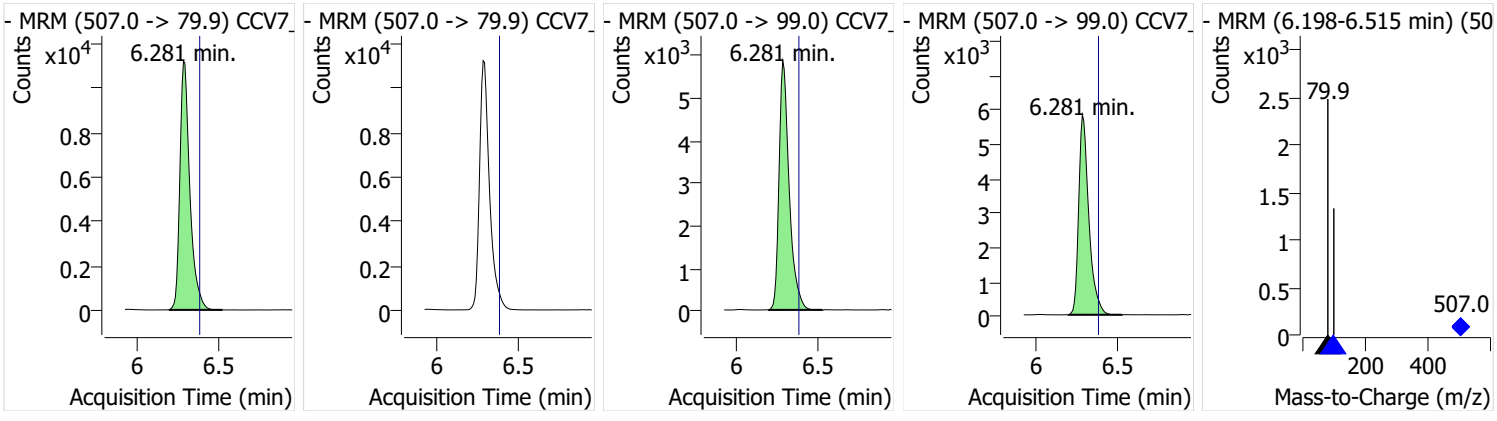

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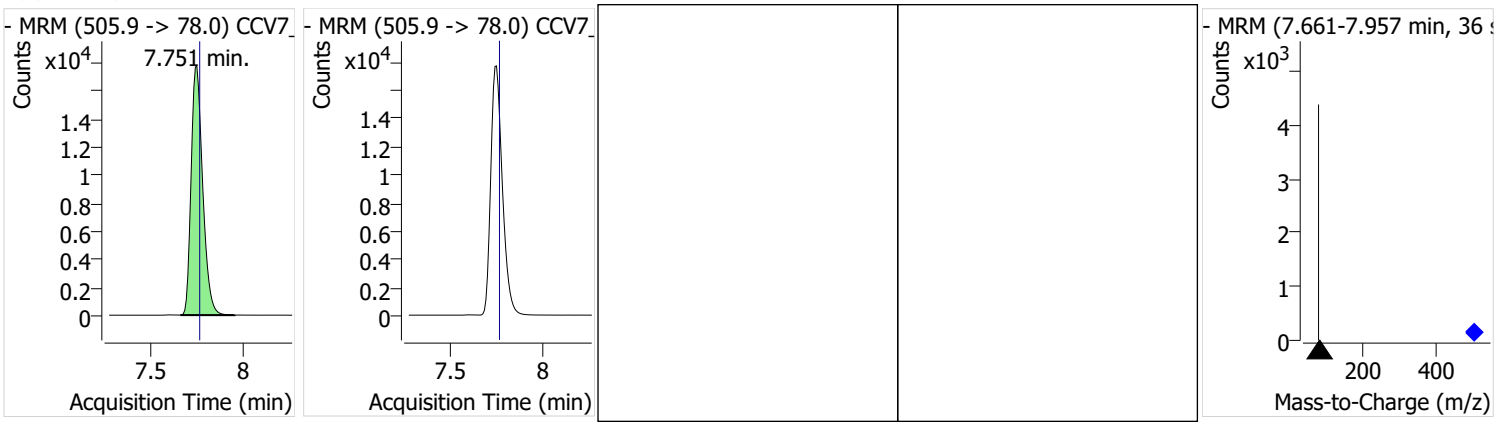

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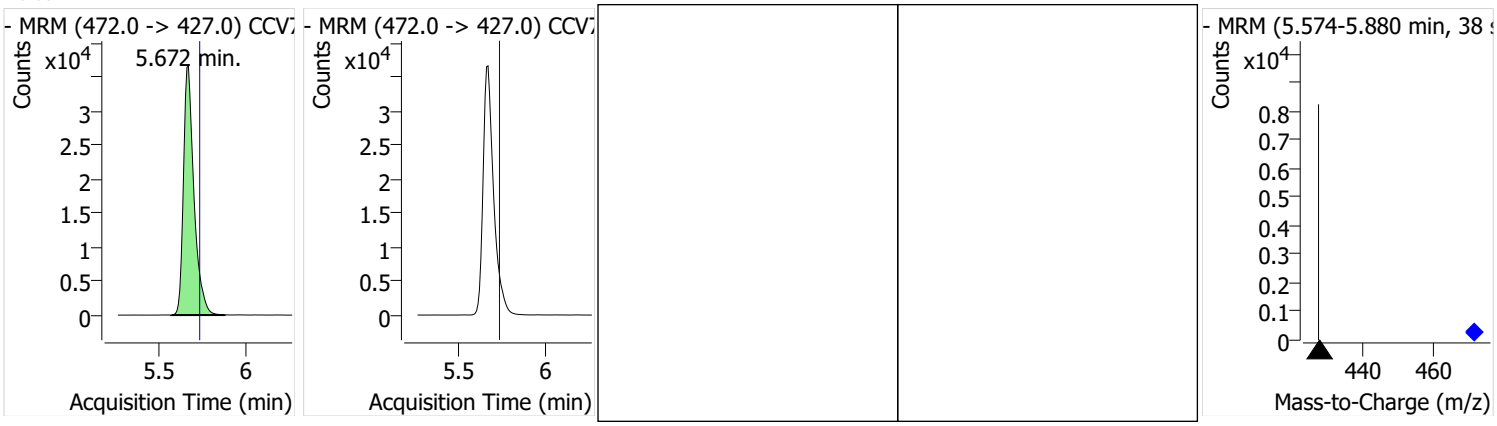

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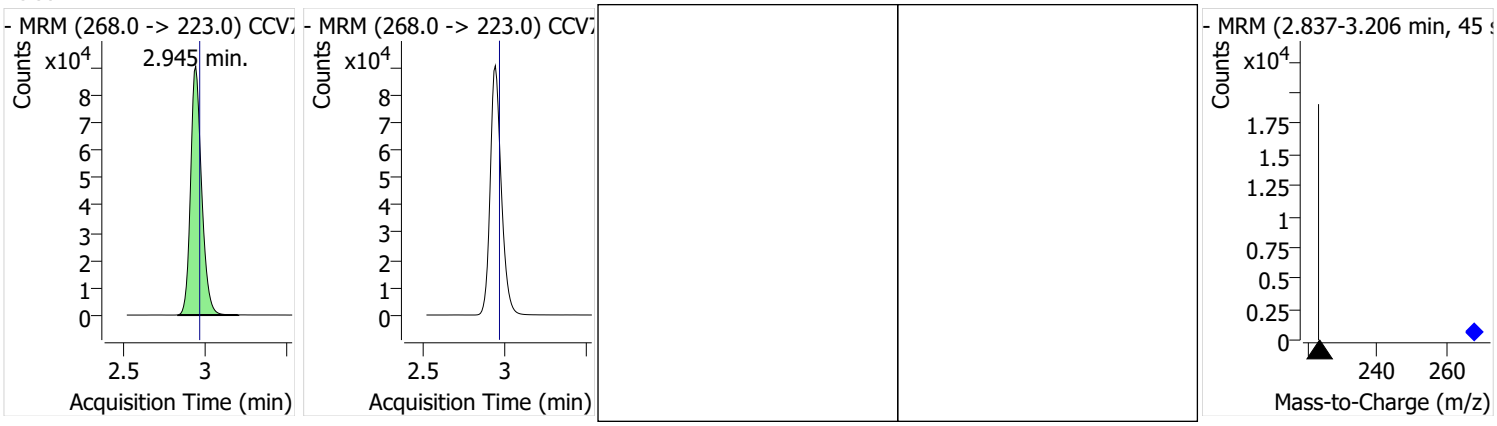

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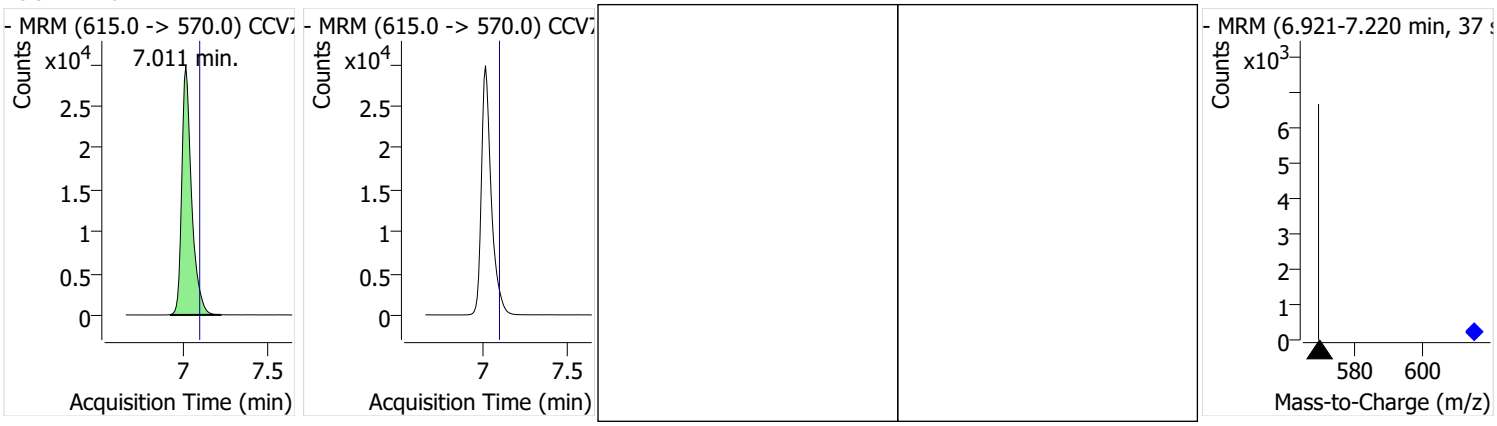

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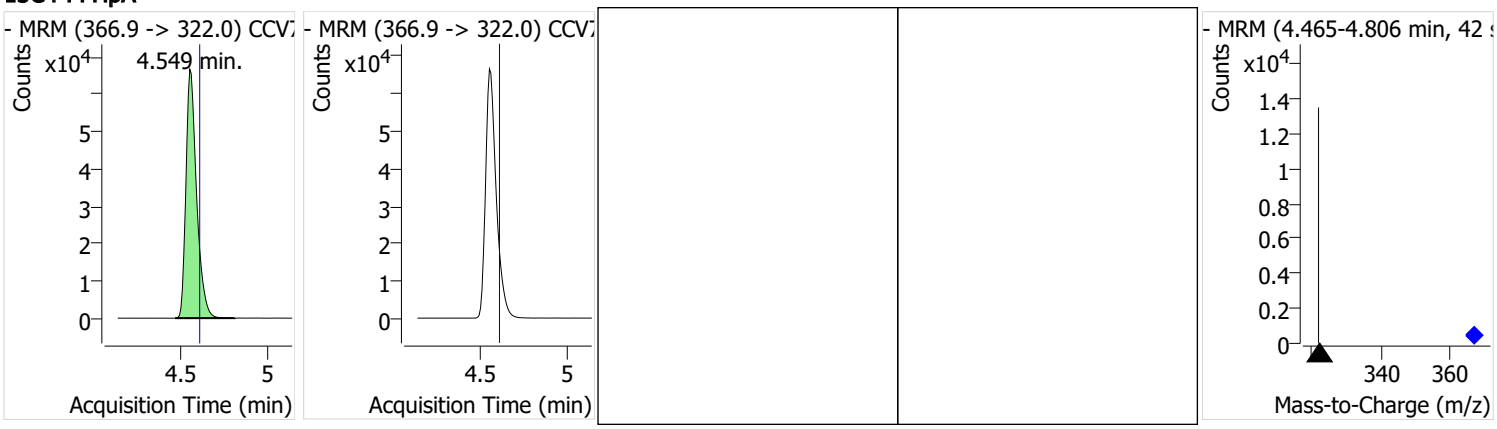

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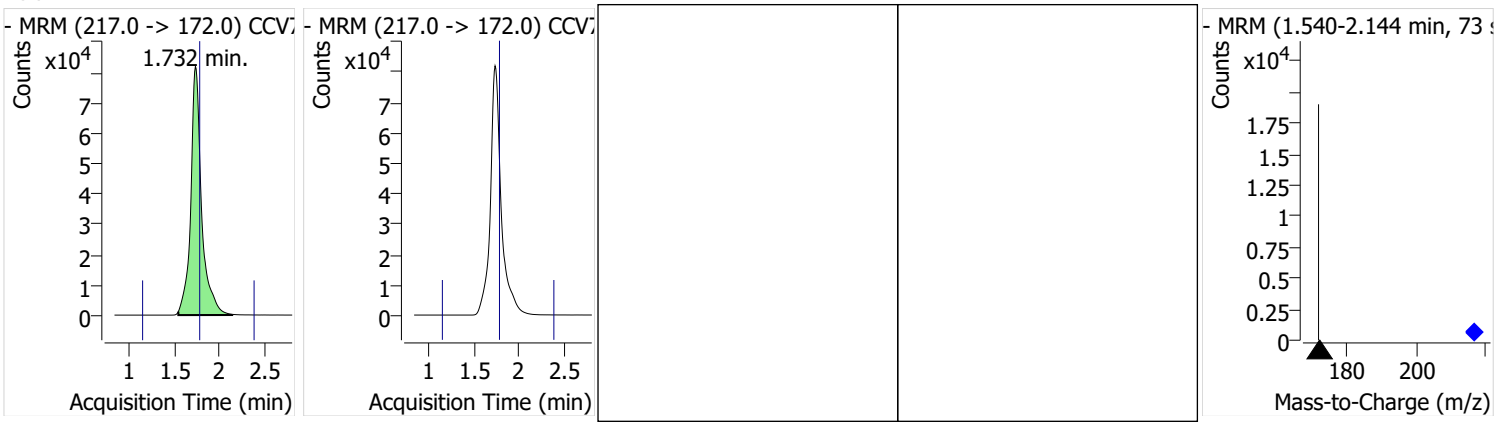

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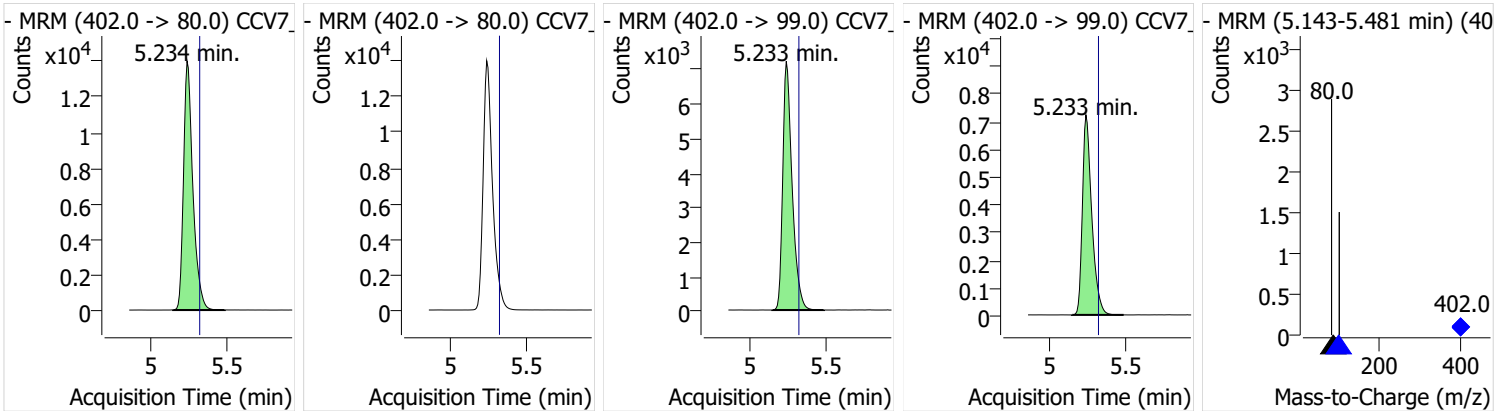

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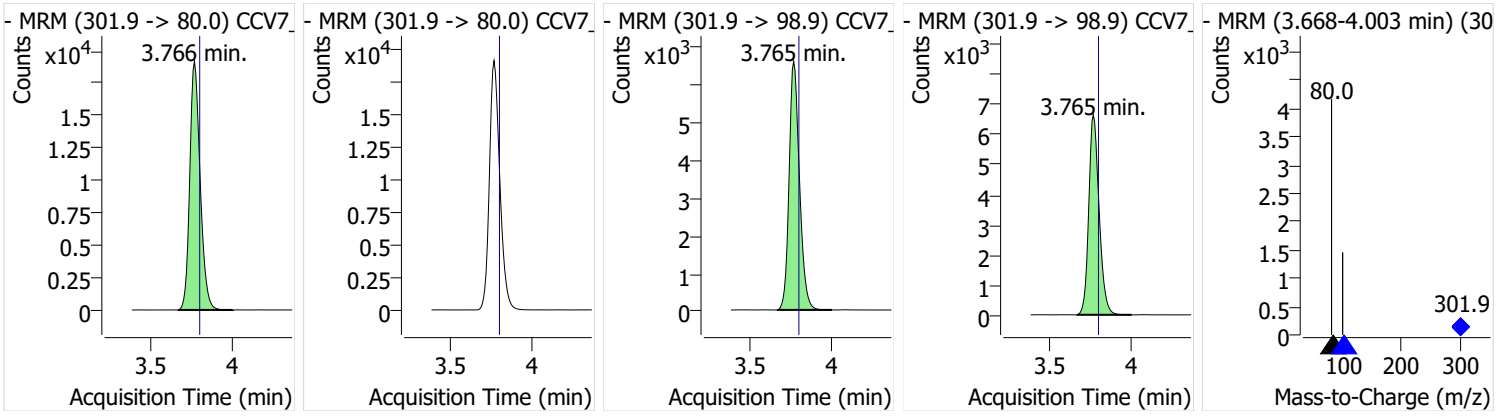

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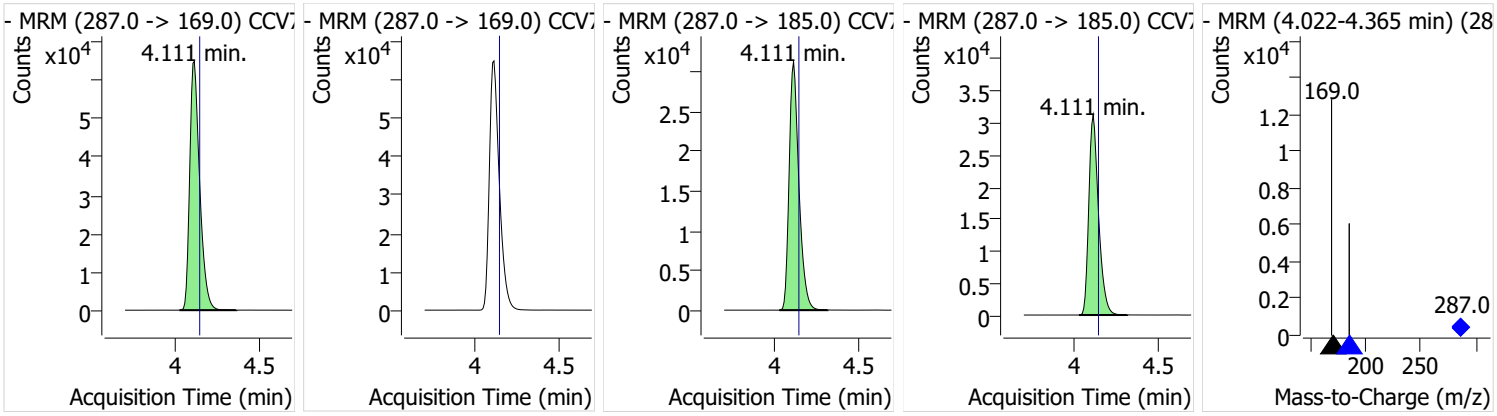

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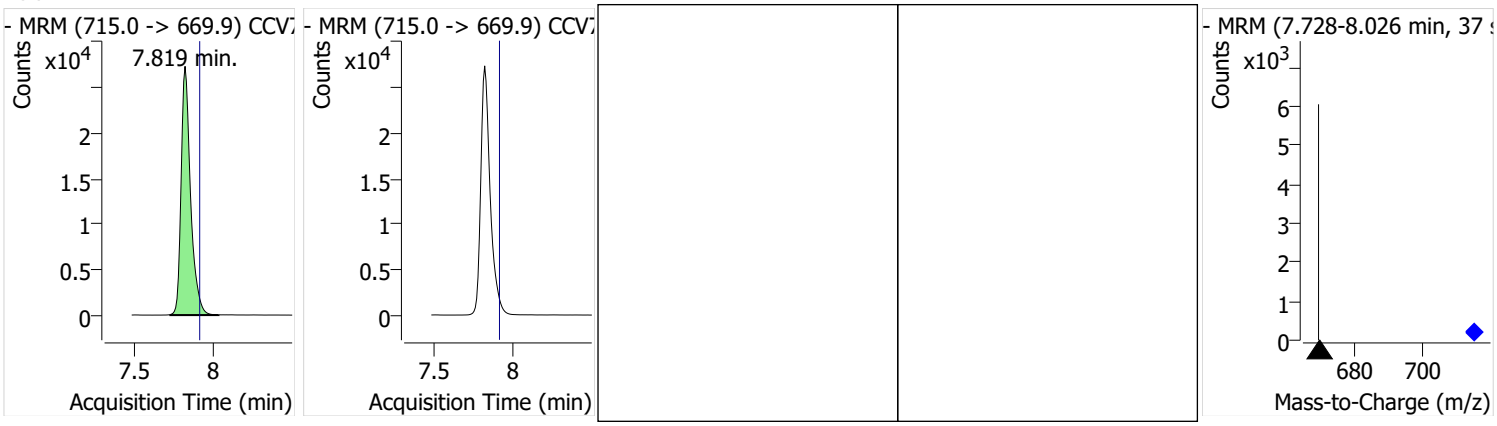

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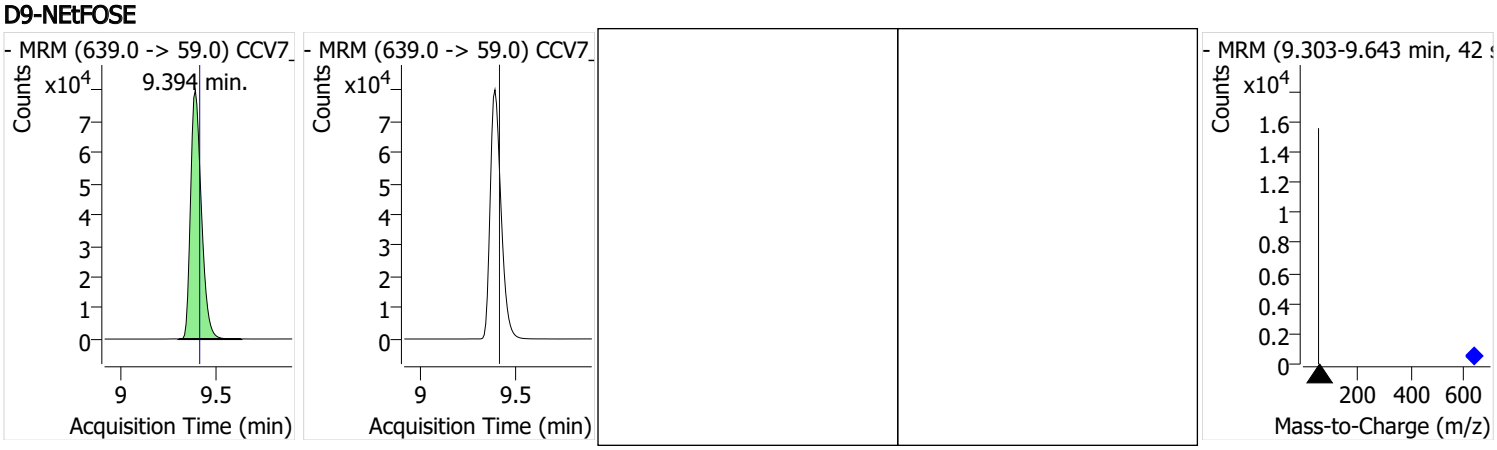
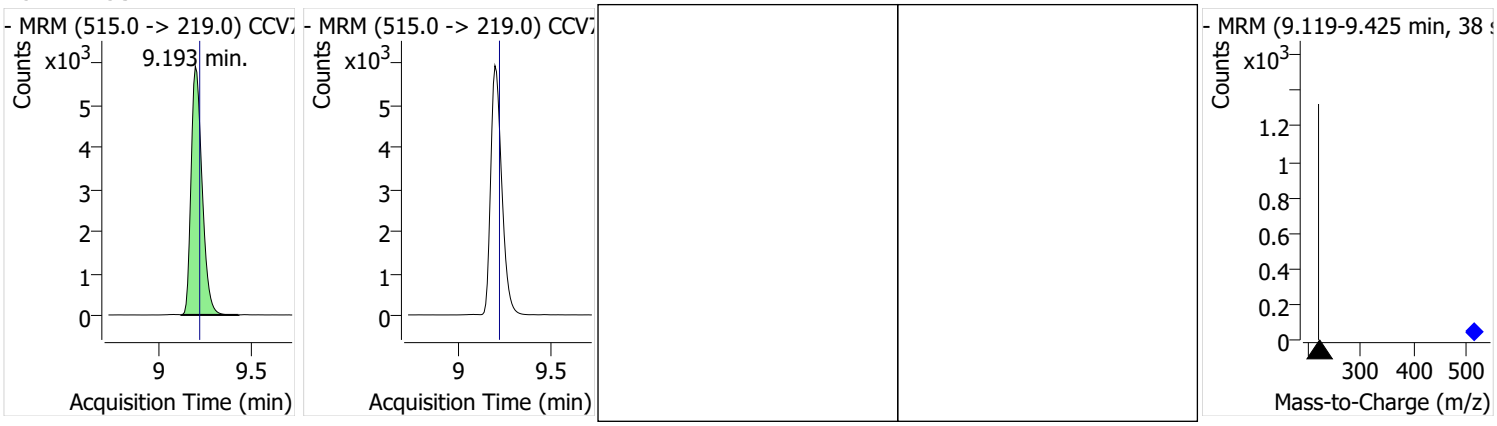


D3-NMeFOSA



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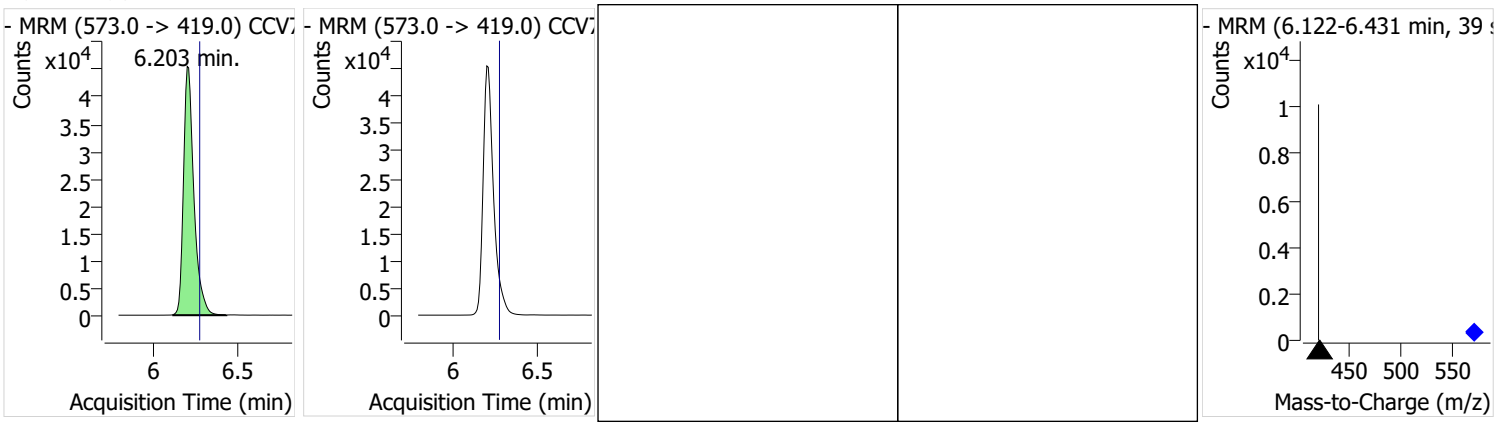

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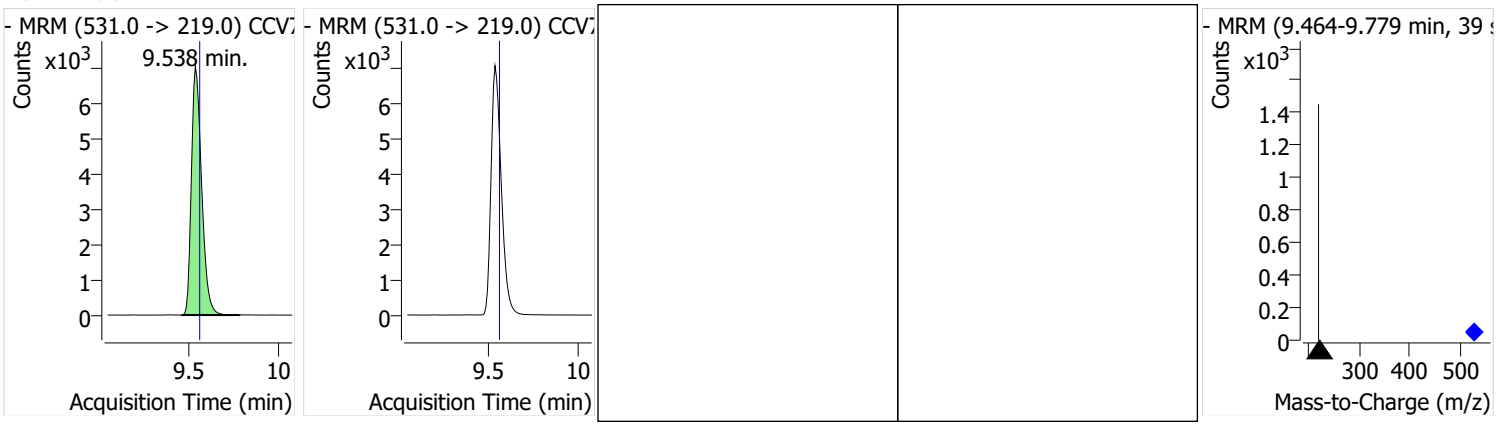

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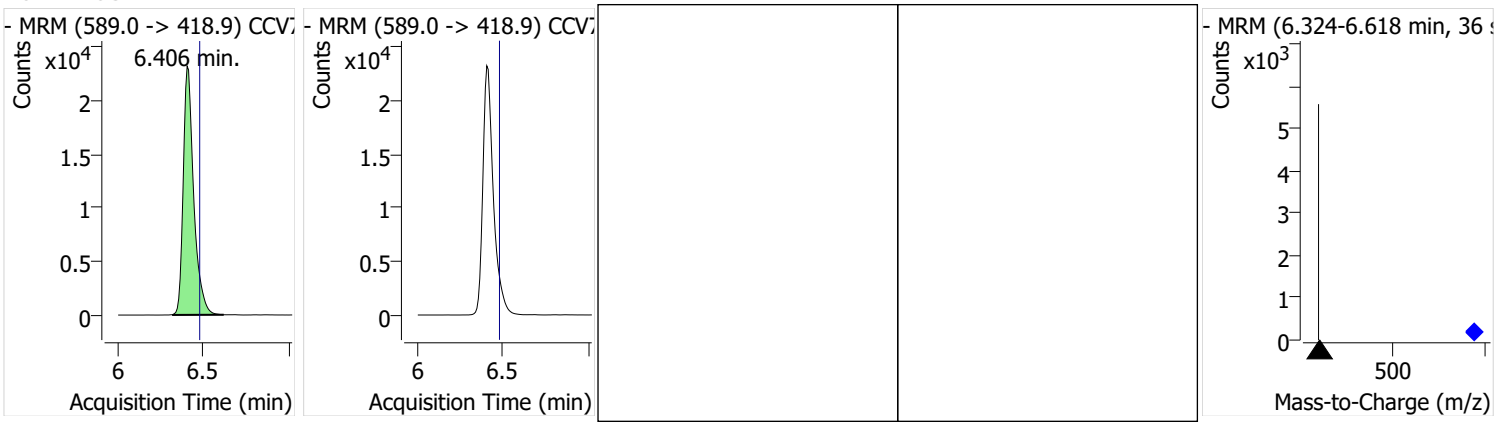

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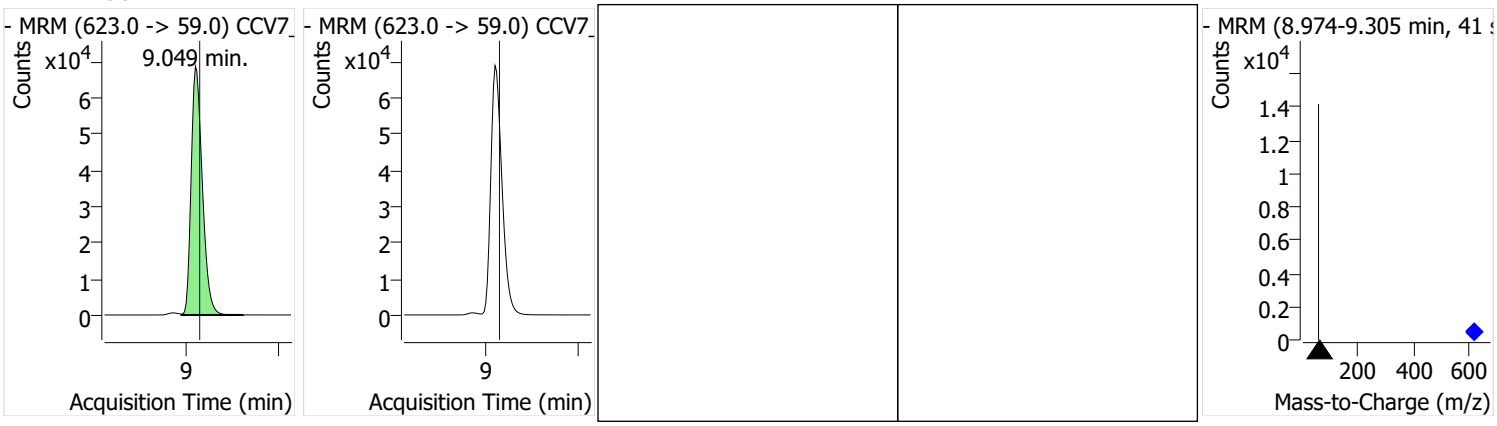

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

Draft Method 1633

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	QQQ6	Calibration:	2400518
Lab File ID:	CCV8_1633_051724.d	Calibration Date:	05/08/24 00:00
Sequence:	S104823	Injection Date:	05/18/24
Lab Sample ID:	S104823-CCV3	Injection Time:	10:39

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Perfluorobutanoic acid (PFBA)	A	10.0	9.55	0.9230632	0.881132		-4.5	30
Perfluoropentanoic acid (PFPeA)	A	5.00	4.77	1.009825	0.9633307		-4.6	30
Perfluorohexanoic acid (PFHxA)	A	2.50	2.33	1.01642	0.9480734		-6.7	30
Perfluoroheptanoic acid (PFHpA)	A	2.50	2.39	1.042023	0.9948884		-4.5	30
Perfluorooctanoic acid (PFOA)	A	2.50	2.43	1.255142	1.220046		-2.8	30
Perfluorononanoic acid (PFNA)	A	2.50	2.36	1.005098	0.948884		-5.6	30
Perfluorodecanoic acid (PFDA)	A	2.50	2.27	1.030105	0.9364632		-9.1	30
Perfluoroundecanoic acid (PFUnA)	A	2.50	2.37	1.004618	0.9523005		-5.2	30
Perfluorododecanoic acid (PFDoA)	A	2.50	2.44	1.036105	1.010861		-2.4	30
Perfluorotridecanoic acid (PFTrDA)	A	2.50	2.39	0.8826679	0.845533		-4.2	30
Perfluorotetradecanoic acid (PFTeDA)	A	2.50	2.41	1.005763	0.9694501		-3.6	30
Perfluorobutanesulfonic acid (PFBS)	A	2.22	2.11	1.246289	1.187248		-4.7	30
Perfluoropentanesulfonic acid (PFPeS)	A	2.35	2.37	1.295728	1.309058		1.0	30
Perfluorohexanesulfonic acid (PFHxS)	A	2.29	2.15	1.12749	1.061349		-5.9	30
Perfluoroheptanesulfonic acid (PFHpS)	A	2.38	2.35	1.319448	1.300102		-1.5	30
Perfluorooctanesulfonic acid (PFOS)	A	2.32	2.13	1.299092	1.190614		-8.4	30
Perfluorononanesulfonic acid (PFNS)	A	2.41	2.36	1.017862	0.9968544		-2.1	30
Perfluorodecanesulfonic acid (PFDS)	A	2.41	2.35	0.8144733	0.7939982		-2.5	30
Perfluorododecanesulfonic acid (PFDoS)	A	2.42	2.40	0.4986549	0.495073		-0.7	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	A	9.38	9.12	2.915315	2.837967		-2.7	30

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

Draft Method 1633

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	QQQ6	Calibration:	2400518
Lab File ID:	CCV8_1633_051724.d	Calibration Date:	05/08/24 00:00
Sequence:	S104823	Injection Date:	05/18/24
Lab Sample ID:	S104823-CCV3	Injection Time:	10:39

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	A	9.50	8.66	3.387056	3.088342		-8.8	30
1H,1H,2H,2H-Perfluorodecan e sulfonic acid (8:2FTS)	A	9.62	9.85	2.548636	2.614058		2.6	30
Perfluorooctanesulfonamide (PFOSA)	A	2.50	2.33	1.103835	1.027451		-6.9	30
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	A	2.50	2.40	1.210944	1.16057		-4.2	30
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	A	2.50	2.41	1.298802	1.253416		-3.5	30
N-MeFOSAA (NMeFOSAA)	A	2.50	2.28	0.4240025	0.3859714		-9.0	30
N-EtFOSAA (NEtFOSAA)	A	2.50	2.35	1.21036	1.138502		-5.9	30
N-methylperfluorooctanesulfo namidoethanol(NMeFOSE)	A	25.0	25.5	1.079448	1.099761		1.9	30
N-ethylperfluorooctanesulfona midoethanol (NEtFOSE)	A	25.0	25.0	1.116928	1.115599		-0.1	30
Hexafluoropropylene oxide dimer acid (HFPO-DA)	A	10.0	8.92	0.9202454	0.8207433		-10.8	30
4,8-Dioxa-3H-perfluorononano ic acid (ADONA)	A	9.44	8.56	7.434924	6.737785		-9.4	30
9Cl-PF3ONS (F53B Minor)	A	9.38	9.38	3.288392	3.298827		0.3	30
11Cl-PF3OUdS (F53B Major)	A	9.44	9.61	2.952986	3.004717		1.8	30
3-Perfluoropropyl propanoic acid (FPrPA)(3:3FTCA)	A	25.0	20.8	3.553835E-02	2.958054E-02		-16.8	30
2H,2H,3H,3H-Perfluorooctano ic acid(FPePA)(5:3FTCA)	A	125	109	9.961691E-02	8.661506E-02		-13.1	30
3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTCA)	A	125	113	0.117316	0.1063808		-9.3	30
Perfluoro(2-ethoxyethane)sulf onic acid (PFEESA)	A	4.45	4.55	1.259028	1.287724		2.3	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	A	5.00	4.66	0.1094335	0.1019652		-6.8	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	A	5.00	4.74	0.6884095	0.6531449		-5.1	30
Nonafluoro-3,6-dioxaheptanoi c acid (NFDHA)	A	5.00	5.15	8.451406E-02	8.705076E-02		3.0	30
13C4-PFBA	A	10.0	10.3	1.085569	1.11785		3.0	30

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

Draft Method 1633

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	QQQ6	Calibration:	2400518
Lab File ID:	CCV8_1633_051724.d	Calibration Date:	05/08/24 00:00
Sequence:	S104823	Injection Date:	05/18/24
Lab Sample ID:	S104823-CCV3	Injection Time:	10:39

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
13C5-PFPeA	A	5.00	5.20	0.9232685	0.9606186		4.0	30	
13C5-PFHxA	A	2.50	2.61	1.030198	1.074763		4.3	30	
13C4-PFHpA	A	2.50	2.79	1.152357	1.286285		11.6	30	
13C8-PFOA	A	2.50	2.53	6.853857	6.937679		1.2	30	
13C9-PFNA	A	1.25	1.28	0.8524299	0.8748781		2.6	30	
13C6-PFDA	A	1.25	1.33	0.9862821	1.045854		6.0	30	
13C7-PFUnA	A	1.25	1.40	0.7984683	0.8928769		11.8	30	
13C2-PFDoA	A	1.25	1.32	0.8241087	0.8676629		5.3	30	
13C2-PFTeDA	A	1.25	1.37	0.7095946	0.7774565		9.6	30	
13C3-PFBS	A	2.50	2.71	1.35117	1.465018		8.4	30	
13C3-PFHxS	A	2.50	2.60	1.020951	1.059825		3.8	30	
13C8-PFOS	A	2.50	2.54	0.8987725	0.9116523		1.4	30	
13C2-4:2FTS	A	5.00	6.24	0.2991766	0.3730888		24.7	30	
13C2-6:2FTS	A	5.00	6.78	0.2021627	0.2742077		35.6	30	*
13C2-8:2FTS	A	5.00	6.81	0.1643288	0.2238281		36.2	30	*
13C8-PFOSA	A	2.50	2.49	1.580736	1.572777		-0.5	30	
D3-NMeFOSA	A	2.50	2.43	0.5070093	0.4920639		-2.9	30	
D5-NEtFOSA	A	2.50	2.42	0.5288652	0.5129905		-3.0	30	
D3-NMeFOSAA	A	5.00	6.43	1.619524	2.082887		28.6	30	
D5-NEtFOSAA	A	5.00	6.08	0.819503	0.9962166		21.6	30	
D7-NMeFOSE	A	25.0	22.9	0.6143202	0.562688		-8.4	30	
D9-NEtFOSE	A	25.0	23.4	0.6573456	0.6154747		-6.4	30	
13C3-HFPO-DA	A	10.0	10.7	0.2881606	0.309545		7.4	30	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Batch Path	R:\Data\MAY2024\051724\QuantResults\1633_CCVS_CORRECTED.batch.bin		
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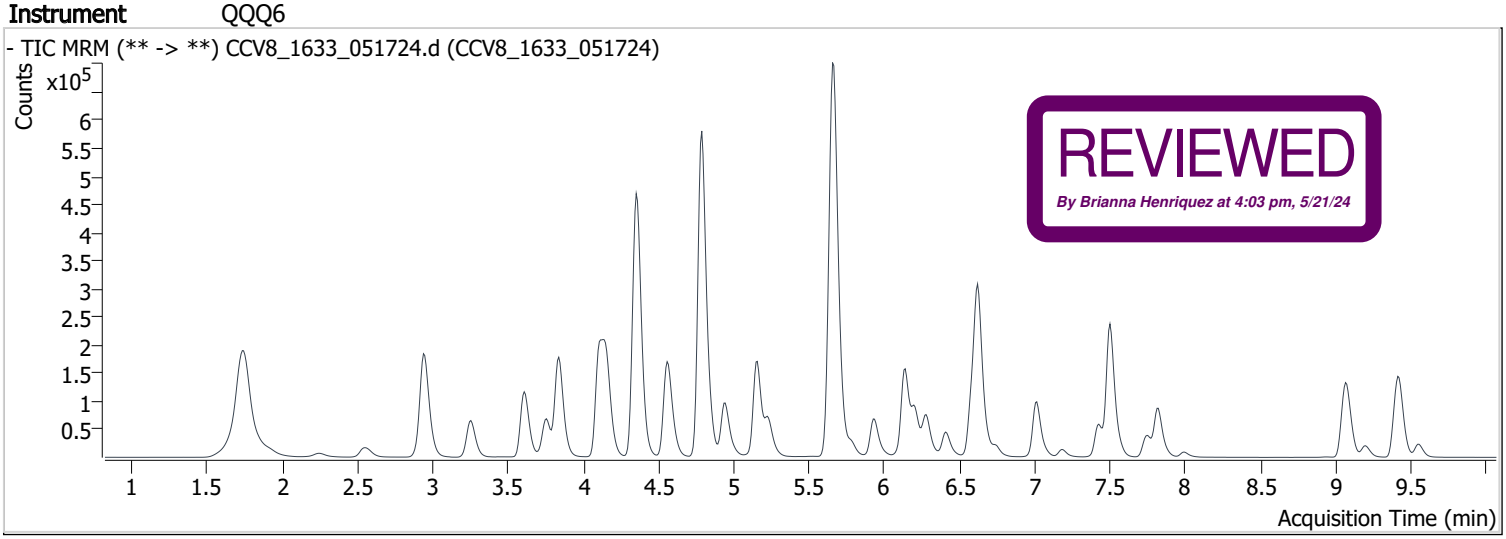
Acq. Time	5/18/2024 10:39 AM	**Data File**	CCV8_1633_051724.d
Sample Type	CC	**Sample Name**	CCV8_1633_051724
Dilution	1	**Acq. Method**	1633_ACQUISITION_01.m
Sample Comment	E#24E0158	**Processing method**	1633_050824.m
Instrument	QQQ6		



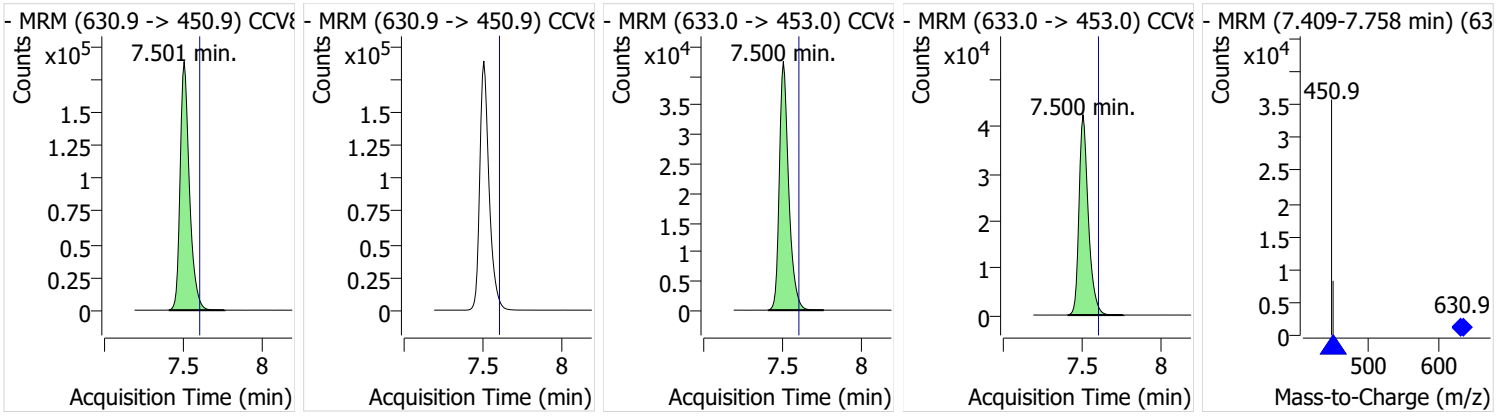
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
11Cl-PF3OUdS	7.501	773352	56702.64		13C3-HFPODA - ISTD	4.111	272648	9.6116	ng/ml			
633.0 -> 453.0			34827.36	22.5								
3:3FTCA	2.549	62571	24955.13		13C5-PFPeA - ISTD	2.937	423057	20.8089	ng/ml			
241.0 -> 117.0			2484.48	48.5								
4:2FTS	3.606	224696	54893.87		13C2-4:2FTS - ISTD	3.605	42204	9.1206	ng/ml			
327.0 -> 80.9			13219.65	39.1								
5:3FTCA	4.351	1024929	164850.99		13C5-PFHxA - ISTD	3.836	236663	108.6853	ng/ml			
341.0 -> 217.0			143056.58	91.2								
6:2FTS	4.942	182013	15523.68		13C2-6:2FTS - ISTD	4.941	31019	8.6622	ng/ml			
427.0 -> 80.9			10414.09	34.2								
7:3FTCA	5.658	1258820	43245.93		13C5-PFHxA - ISTD	3.836	236663	113.3486	ng/ml			
441.0 -> 317.0			20796.67	89.4								
8:2FTS	5.935	127344	25230.42		13C2-8:2FTS - ISTD	5.926	25320	9.8520	ng/ml			
527.0 -> 81.0			21425.86	40.5								
9Cl-PF3ONS	6.622	843653	38016.41		13C3-HFPODA - ISTD	4.111	272648	9.3763	ng/ml			
533.0 -> 353.0			7480.97	29.9								
ADONA	4.789	1734166	36361.82		13C3-HFPODA - ISTD	4.111	272648	8.5605	ng/ml			
377.0 -> 85.1			30615.49	35.6								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA	4.112	223774	12519.42		13C3-HFPODA - ISTD	4.111	272648	8.9187	ng/ml			
285.0 -> 184.9			7277.71	54.2								
NEtFOSA	9.556	31842	23995.59		D5-NEtFOSA - ISTD	9.546	25404	2.4126	ng/ml			
526.0 -> 219.0			10422.97	94.8								
NEtFOSAA	6.406	56167	9400.35		D5-NEtFOSAA - ISTD	6.406	98669	2.3516	ng/ml	✔	3	ALB 5/20/24
584.0 -> 526.0			3005.96	70.8								
NEtFOSE	9.420	340028	80519.38		D9-NEtFOSE - ISTD	9.394	304794	24.9703	ng/ml			
NFDHA	3.750	41203	10428.72		13C5-PFHxA - ISTD	3.836	236663	5.1501	ng/ml			
295.0 -> 85.0			3438.77	34.4								
NMeFOSA	9.203	28281	23063.33		D3-NMeFOSA - ISTD	9.201	24368	2.3960	ng/ml			
512.0 -> 219.0			21154.80	90.6								
NMeFOSAA	6.203	39812	4089.95		D3-NMeFOSAA - ISTD	6.203	206296	2.2758	ng/ml	✔	3	ALB 5/20/24
570.0 -> 418.9			6697.29	66.6								
NMeFOSE	9.074	306452	88758.77		D7-NMeFOSE - ISTD	9.057	278653	25.4704	ng/ml			
PFBA	1.737	604055	10885.26		13C4-PFBA - ISTD	1.740	685544	9.5457	ng/ml			
PFBS	3.758	87360	15282.44		13C3-PFBS - ISTD	3.757	82862	2.1121	ng/ml			
298.9 -> 98.8			6937.03	38.4								
PFDA	6.140	277134	7871.76		13C6-PFDA - ISTD	6.132	147969	2.2727	ng/ml			
513.0 -> 219.0			15877.35	16.4								
PFDoA	7.012	248182	7842.21		13C2-PFDoA - ISTD	7.011	122758	2.4391	ng/ml			
613.0 -> 319.0			11085.74	13.1								
PFDoS	7.995	21636	18731.51		13C8-PFOS - ISTD	6.281	45147	2.4047	ng/ml			
698.9 -> 99.0			12992.27	64.1								
PFDS	7.180	34556	5185.29		13C8-PFOS - ISTD	6.281	45147	2.3493	ng/ml			
599.0 -> 98.8			6388.33	58.3								
PFEESA	4.157	542467	41307.21		13C5-PFHxA - ISTD	3.836	236663	4.5544	ng/ml			
315.0 -> 83.0			8000.66	7.0								
PFHpA	4.558	281792	5770.45		13C4-PFHpA - ISTD	4.558	283240	2.3869	ng/ml			
362.9 -> 169.0			9837.85	17.7								
PFHpS	5.791	55878	7510.83		13C8-PFOS - ISTD	6.281	45147	2.3480	ng/ml			
449.0 -> 98.8			10819.07	49.7								

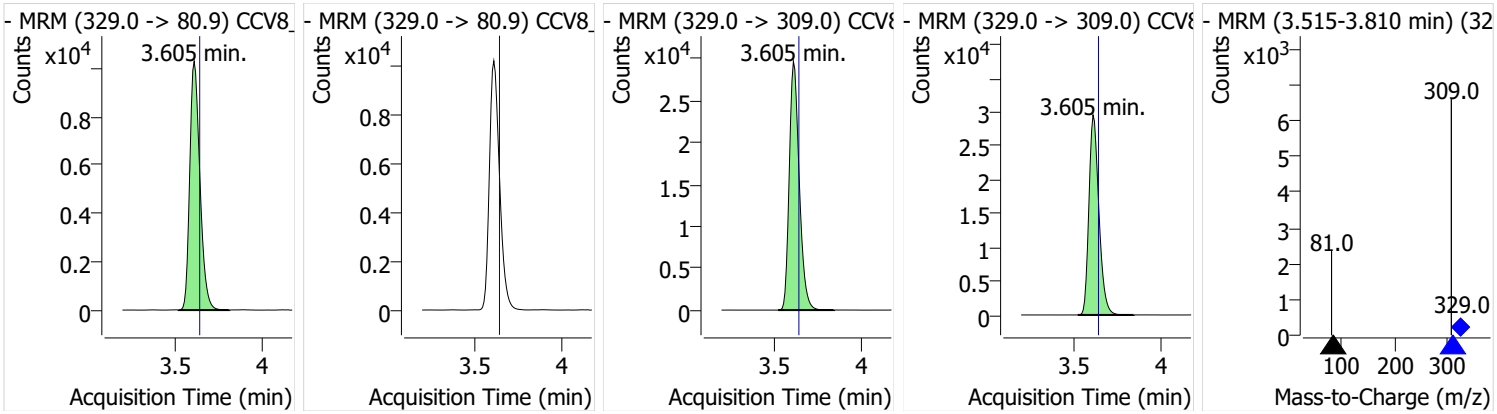
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFHxA	3.838	224374	7218.47		13C5-PFHxA - ISTD	3.836	236663	2.3319	ng/ml			
313.0 -> 118.9			1457.87	3.5								
PFHxS	5.235	58278	4367.78		13C3-PFHxS - ISTD	5.234	59944	2.1535	ng/ml	✔	3	ALB 5/20/24
398.9 -> 99.0			2614.22	45.7								
PFMBA	3.255	276317	75037.78		13C5-PFPeA - ISTD	2.937	423057	4.7439	ng/ml			
PFMPA	2.242	43137	13843.80		13C5-PFPeA - ISTD	2.937	423057	4.6588	ng/ml			
PFNA	5.665	296822	7706.64		13C9-PFNA - ISTD	5.664	156406	2.3602	ng/ml			
463.0 -> 219.0			10842.13	20.6								
PFNS	6.744	43384	8554.41		13C8-PFOS - ISTD	6.281	45147	2.3605	ng/ml			
549.0 -> 98.8			5757.72	52.5								
PFOA	5.157	315558	3209.69		13C8-PFOA - ISTD	5.148	258644	2.4301	ng/ml			
413.0 -> 169.0			6546.78	24.1								
PFOS	6.282	49882	6620.24		13C8-PFOS - ISTD	6.281	45147	2.1258	ng/ml	✔	3	ALB 5/20/24
499.0 -> 99.0			3941.15	48.2								
PFOSA	7.753	80025	467665.19		13C8-PFOSA - ISTD	7.751	77887	2.3270	ng/ml			
497.9 -> 478.0			3947.10	3.3								
PFPeA	2.937	407544	15319.70		13C5-PFPeA - ISTD	2.937	423057	4.7698	ng/ml			
263.0 -> 69.0			523.53	0.3								
PFPeS	4.584	73762	8753.53		13C3-PFHxS - ISTD	5.234	59944	2.3746	ng/ml			
349.0 -> 98.9			8754.55	46.1								
PFTeDA	7.820	213270	18312.99		13C2-PFTeDA - ISTD	7.819	109995	2.4097	ng/ml			
713.0 -> 168.9			6645.51	7.9								
PFTrDA	7.423	207592	8307.02		13C2-PFDoA - ISTD	7.011	122758	2.3948	ng/ml			
663.0 -> 168.9			5318.95	13.4								
PFUnA	6.579	240599	9296.21		13C7-PFUnA - ISTD	6.578	126325	2.3698	ng/ml			
563.0 -> 269.1			6947.01	17.6								
TDCA	6.282	37059	2444.42					-	ng/ml			
499.0 -> 99.0			2060.30	*57.6								
13C2-8:2FTS	5.926	25320	6142.33		18O2-PFHxS	5.233	56561	6.8104	ng/ml			
529.0 -> 509.0			16308.80	304.4								
13C2-4:2FTS	3.605	42204	4033.09		18O2-PFHxS	5.233	56561	6.2353	ng/ml			

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
329.0 -> 309.0			33235.36	283.6								
13C2-6:2FTS	4.941	31019	6017.25		18O2-PFHxS	5.233	56561	6.7819	ng/ml			
429.0 -> 409.0			35090.10	368.5								
13C5-PFHxA	3.836	236663	38448.12		13C2-PFHxA	3.837	220200	2.6081	ng/ml			
318.0 -> 120.0			397.08	1.9								
13C6-PFDA	6.132	147969	12196.31		13C2-PFDA	6.140	141481	1.3255	ng/ml			
13C7-PFUnA	6.578	126325	11472.71		13C2-PFDA	6.140	141481	1.3978	ng/ml			
13C8-PFOA	5.148	258644	57971.27		13C4-PFOA	5.148	37281	2.5306	ng/ml			
13C8-PFOS	6.281	45147	10653.89		13C4-PFOS	6.281	49522	2.5358	ng/ml			
507.0 -> 99.0			4002.37	51.0								
13C8-PFOSA	7.751	77887	214473.64		13C4-PFOS	6.281	49522	2.4874	ng/ml			
13C9-PFNA	5.664	156406	11432.93		13C5-PFNA	5.664	178774	1.2829	ng/ml			
13C5-PFPeA	2.937	423057	13625.35		13C2-PFHxA	3.837	220200	5.2023	ng/ml			
13C2-PFDoA	7.011	122758	11245.41		13C2-PFDA	6.140	141481	1.3161	ng/ml			
13C4-PFHpA	4.558	283240	32995.13		13C2-PFHxA	3.837	220200	2.7906	ng/ml			
13C4-PFBA	1.740	685544	179600.88		13C3-PFBA	1.735	306635	10.2974	ng/ml			
13C3-PFHxS	5.234	59944	19405.27		18O2-PFHxS	5.233	56561	2.5952	ng/ml			
402.0 -> 99.0			11519.07	50.2								
13C3-PFBS	3.757	82862	21971.09		18O2-PFHxS	5.233	56561	2.7106	ng/ml			
301.9 -> 98.9			9225.70	35.1								
13C3-HFPODA	4.111	272648	44488.20		13C2-PFHxA	3.837	220200	10.7421	ng/ml			
287.0 -> 185.0			16495.41	45.1								
13C2-PFTeDA	7.819	109995	14415.79		13C2-PFDA	6.140	141481	1.3695	ng/ml			
D9-NEtFOSE	9.394	304794	46081.36		13C4-PFOS	6.281	49522	23.4076	ng/ml			
D3-NMeFOSA	9.201	24368	12295.63		13C4-PFOS	6.281	49522	2.4263	ng/ml			
D3-NMeFOSAA	6.203	206296	21533.19		13C4-PFOS	6.281	49522	6.4306	ng/ml			
D5-NEtFOSA	9.546	25404	13209.68		13C4-PFOS	6.281	49522	2.4250	ng/ml			
D5-NEtFOSAA	6.406	98669	14111.37		13C4-PFOS	6.281	49522	6.0782	ng/ml			
D7-NMeFOSE	9.057	278653	81807.68		13C4-PFOS	6.281	49522	22.8988	ng/ml			

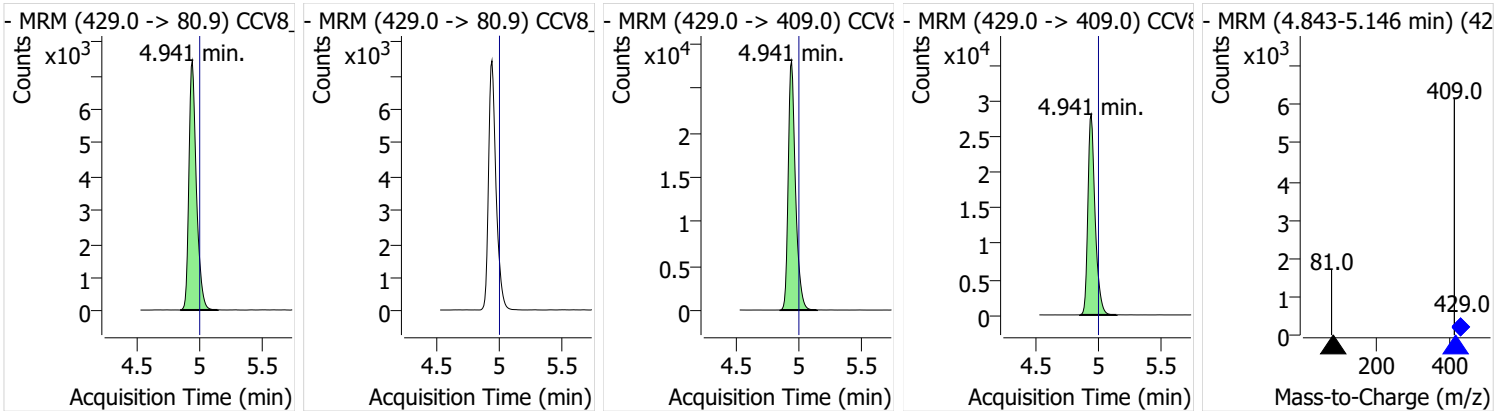
11Cl-PF3OUdS



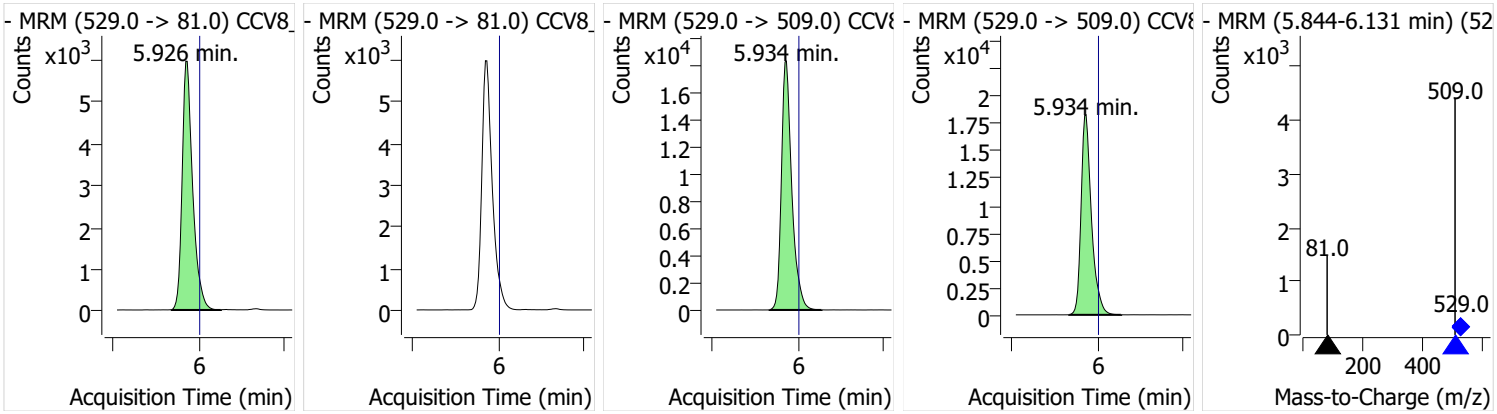
13C2-4:2FTS - ISTD



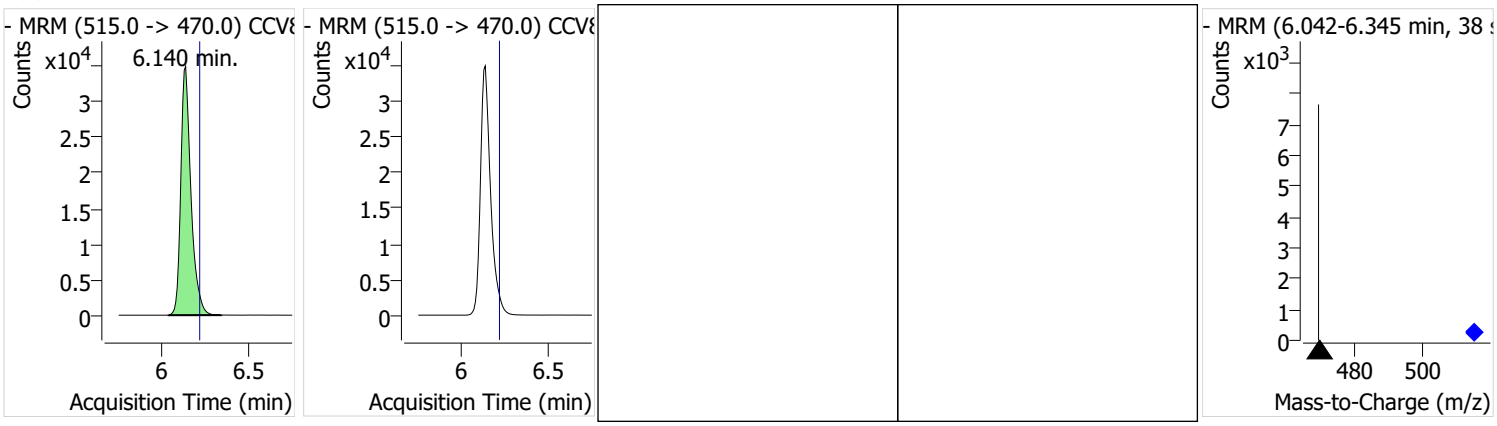
13C2-6:2FTS - ISTD



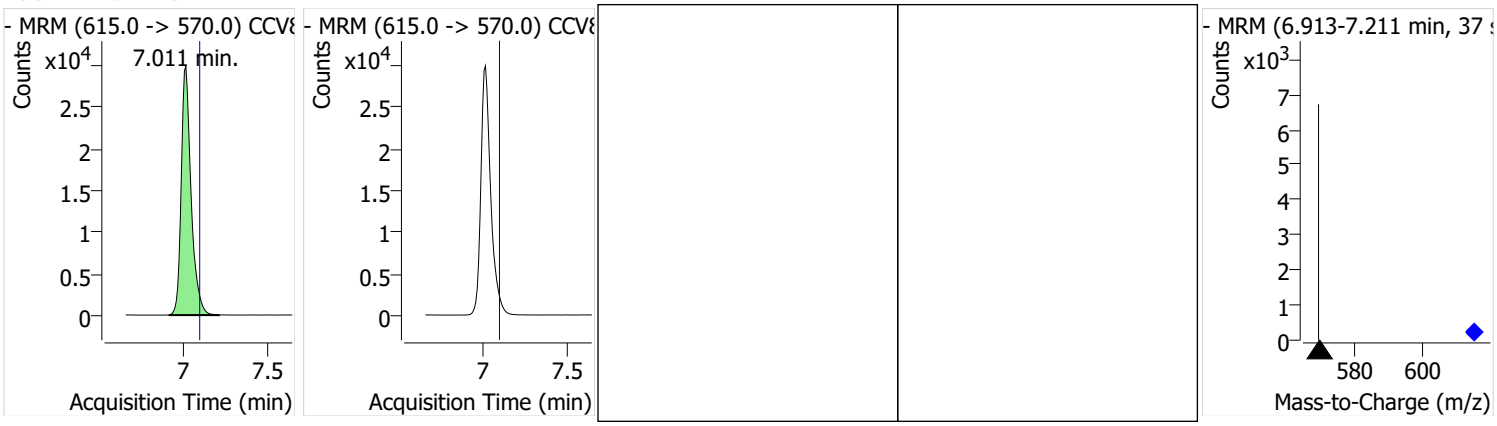
13C2-8:2FTS - ISTD



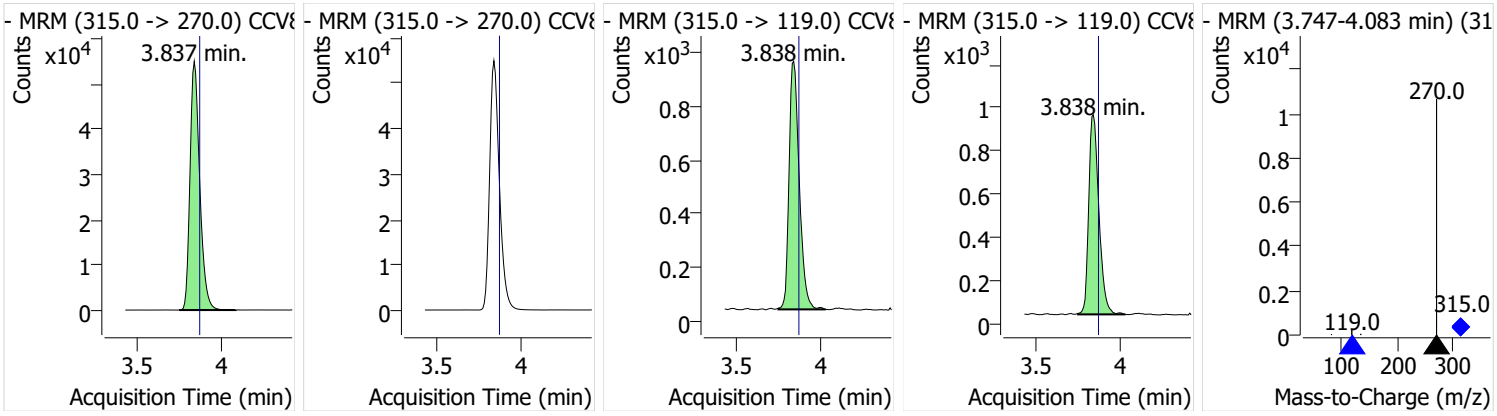
13C2-PFDA



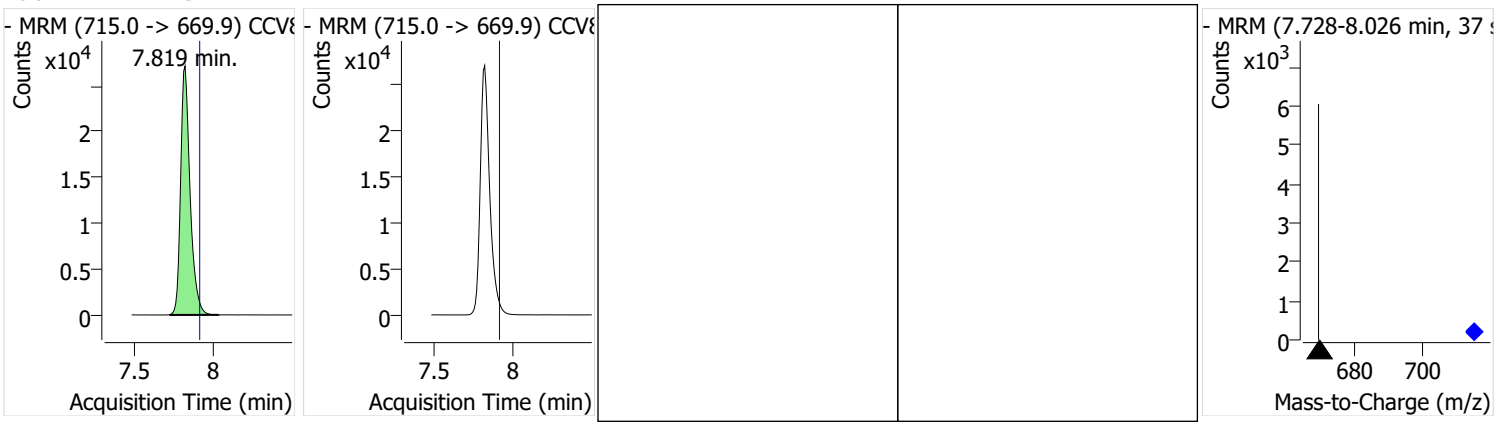
13C2-PFDoA - ISTD



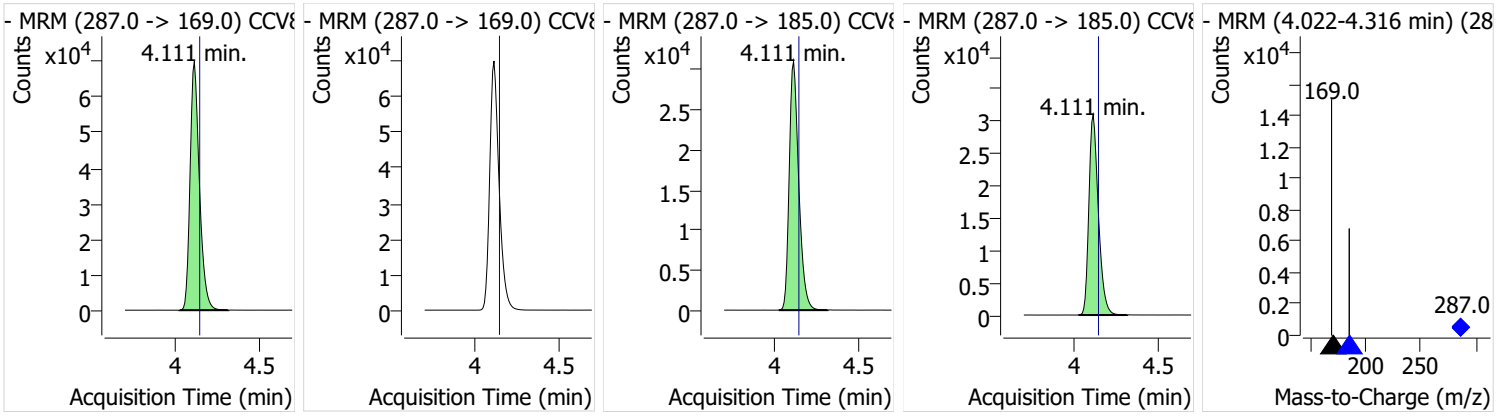
13C2-PFHxA



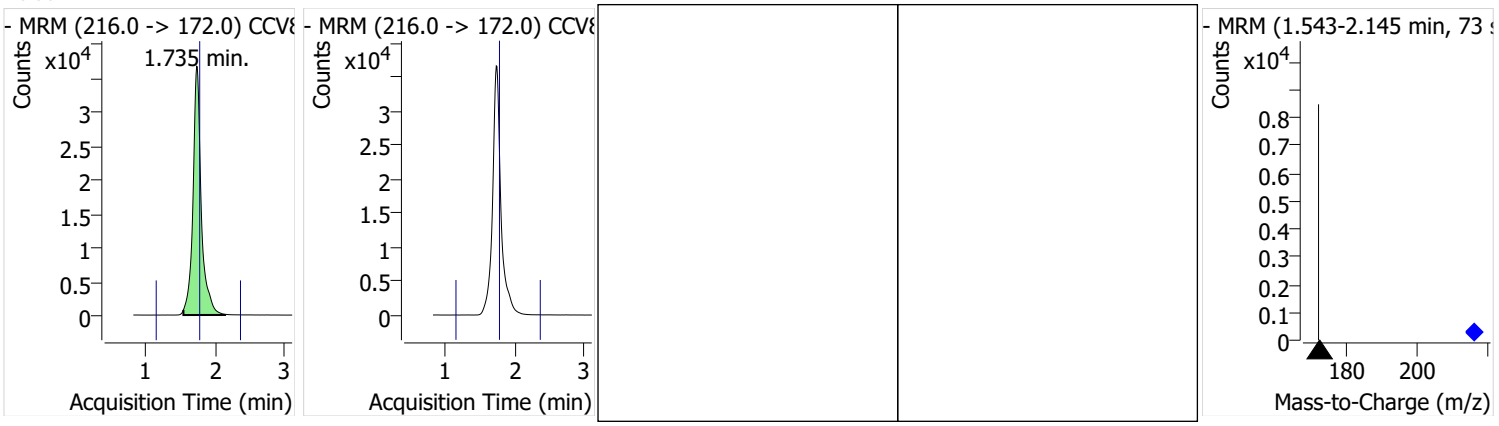
13C2-PFTeDA - ISTD



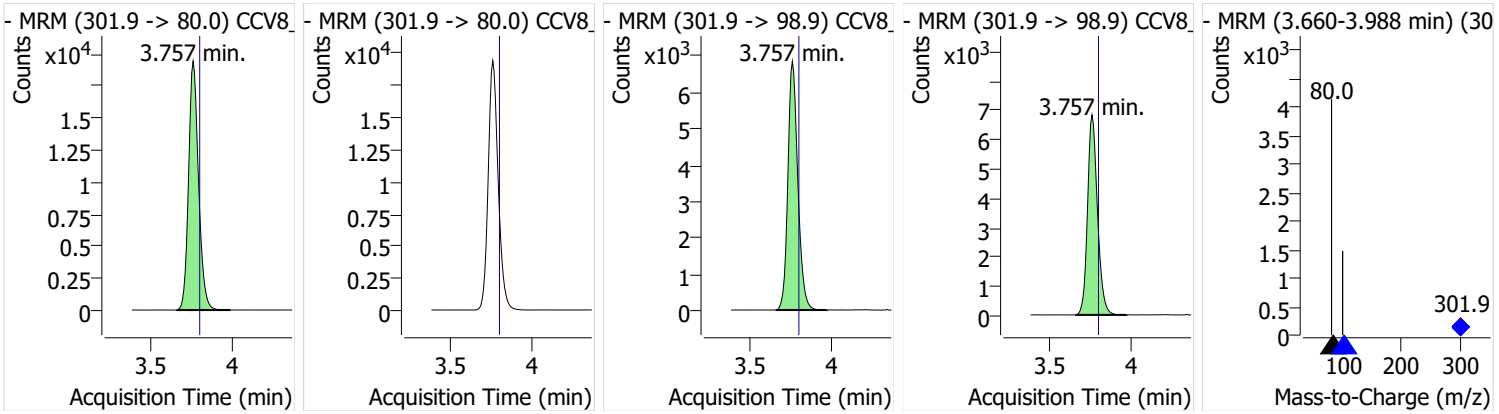
13C3-HFPODA - ISTD



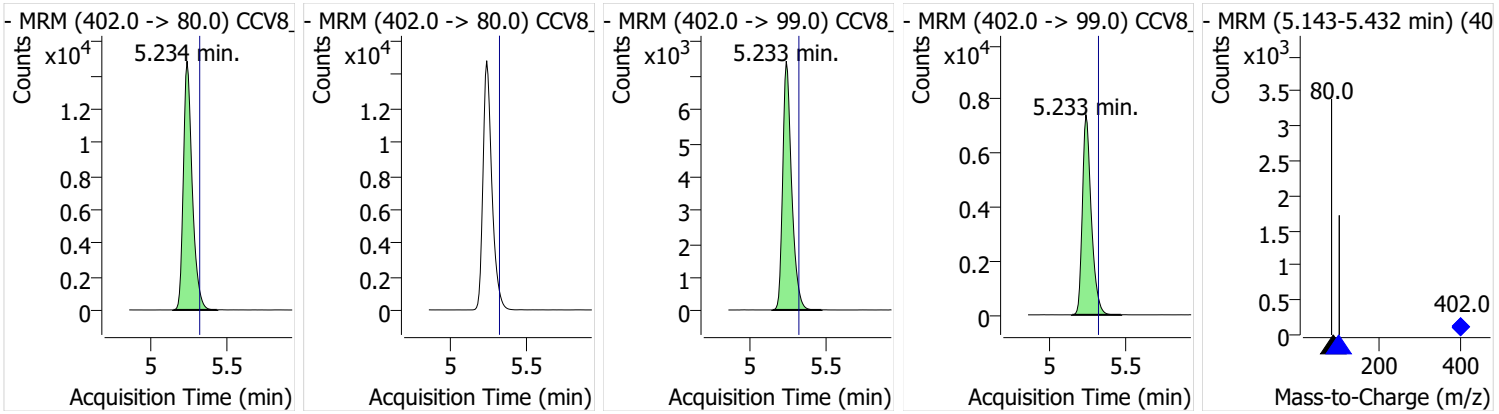
13C3-PFBA



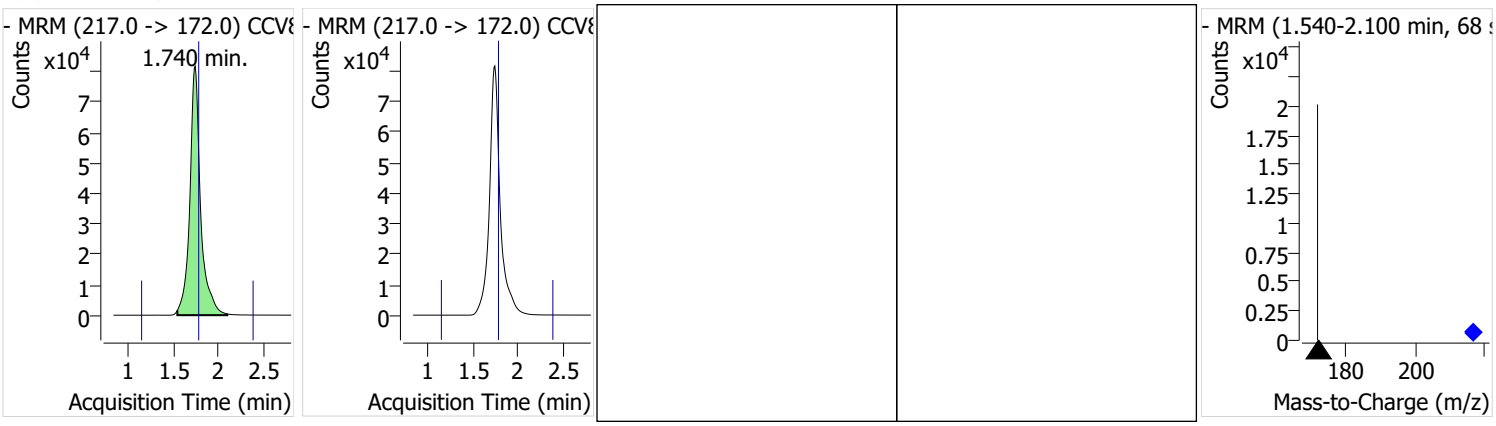
13C3-PFBS - ISTD



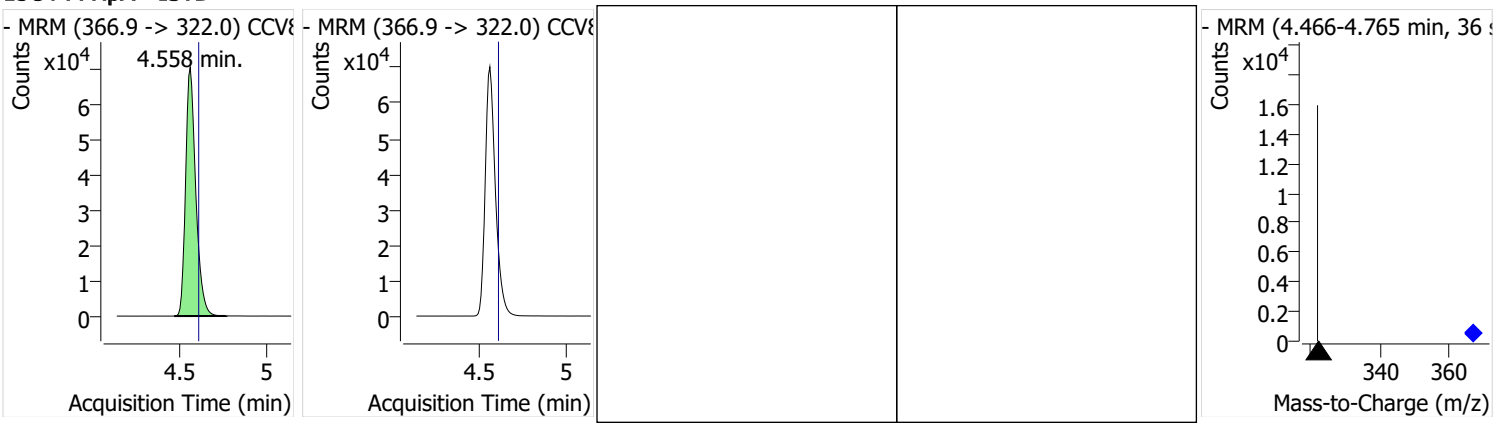
13C3-PFHxS - ISTD



13C4-PFBA - ISTD



13C4-PFHpA - ISTD



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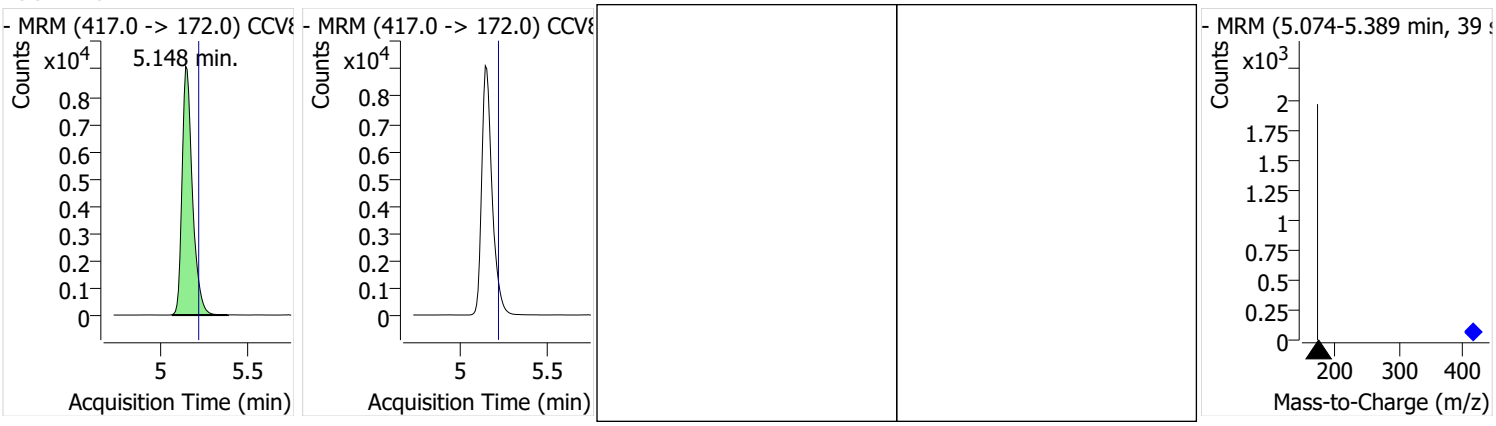

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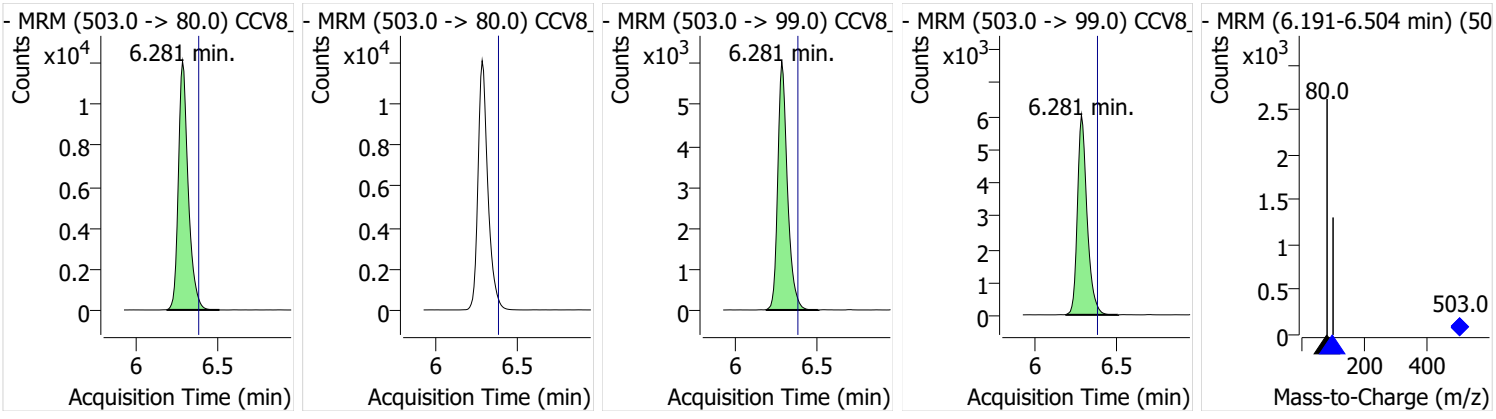
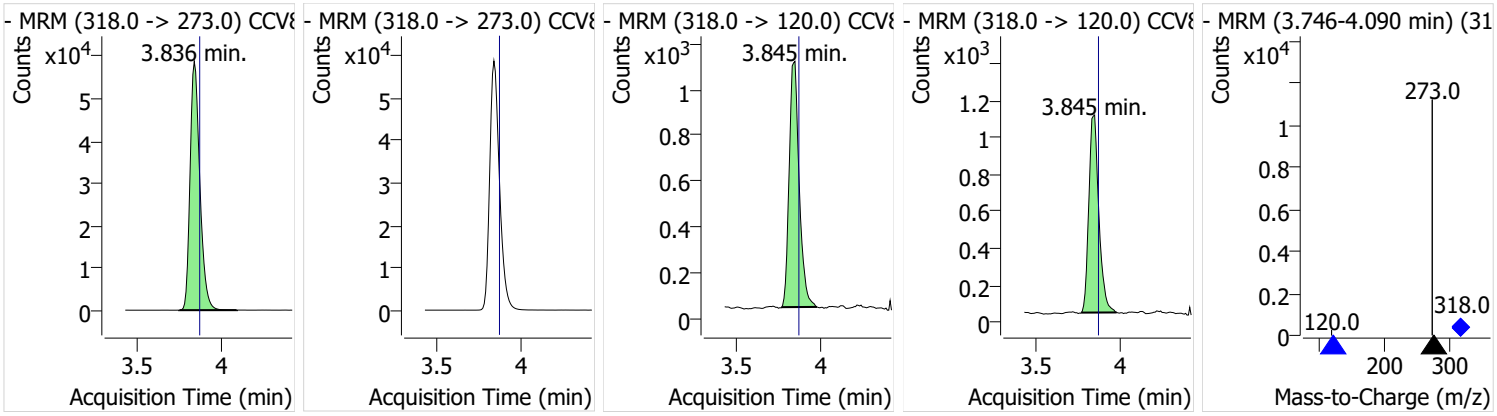
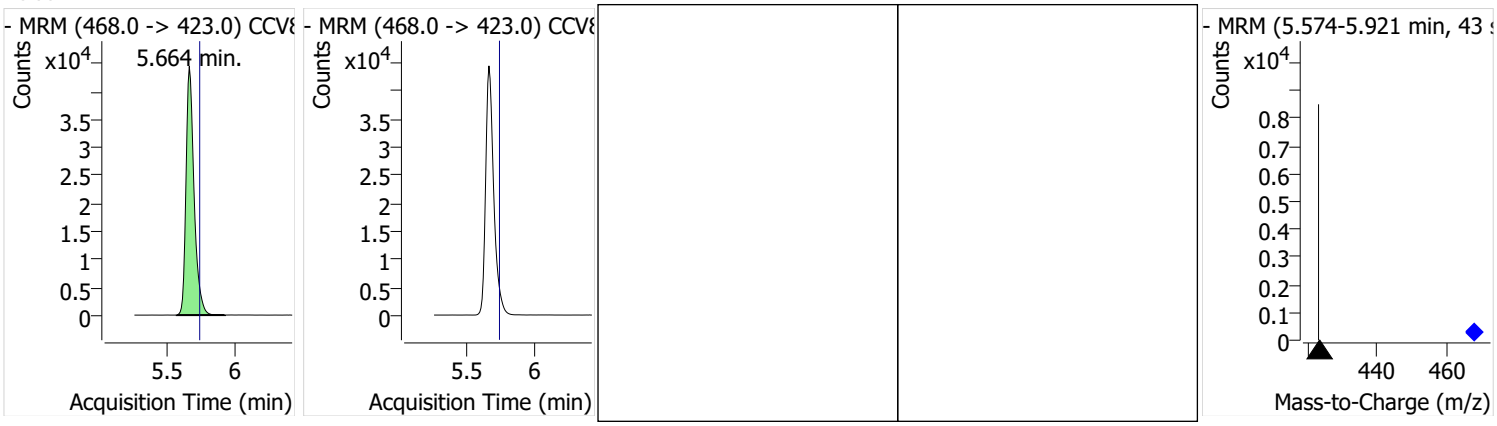


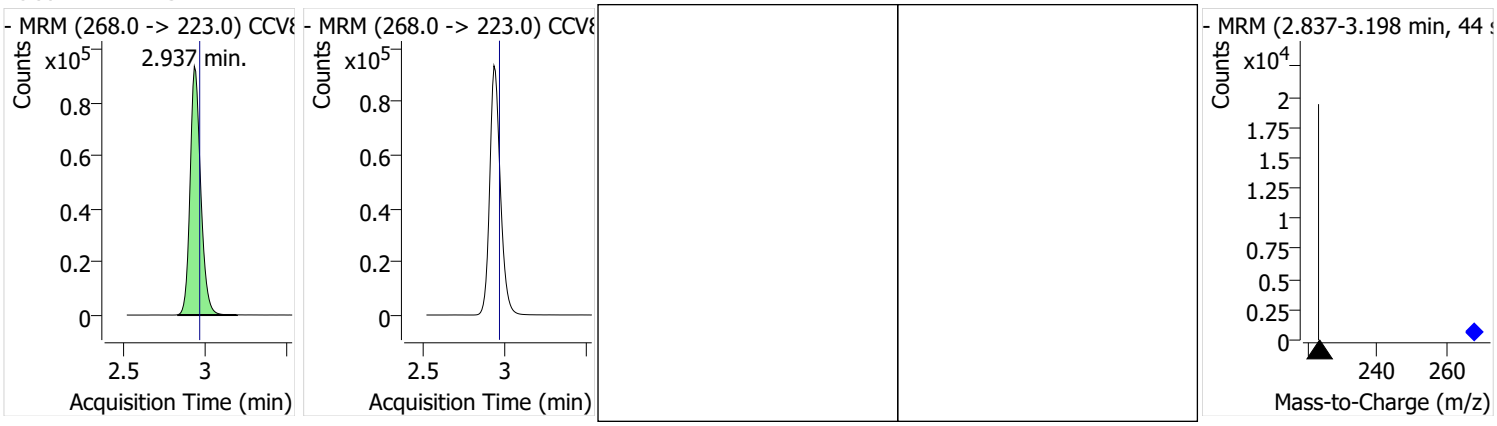
13C5-PFHxA - ISTD



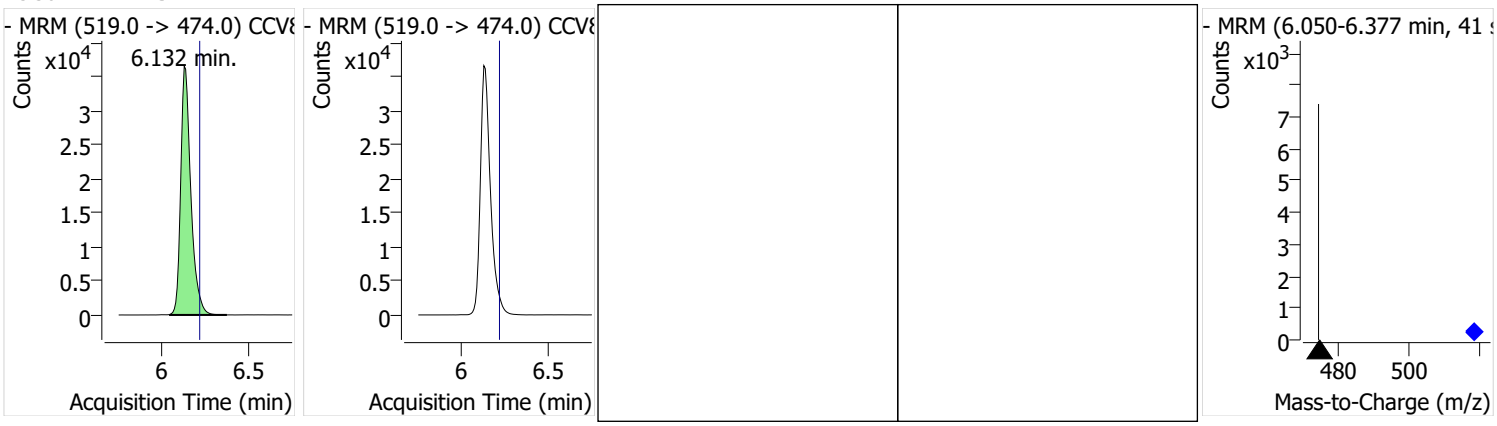
13C5-PFNA



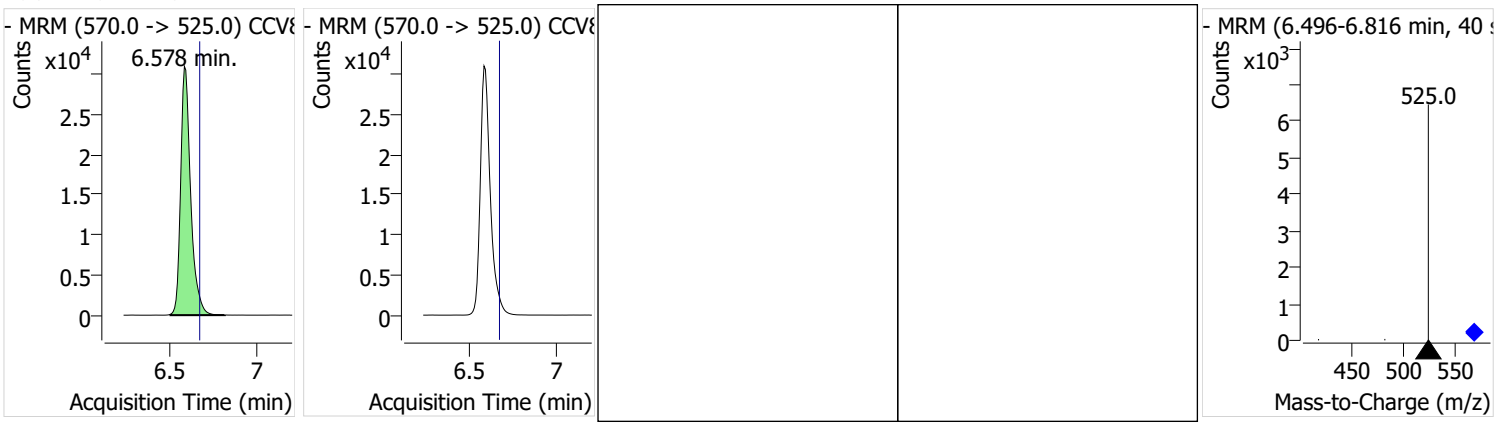
13C5-PFPeA - ISTD



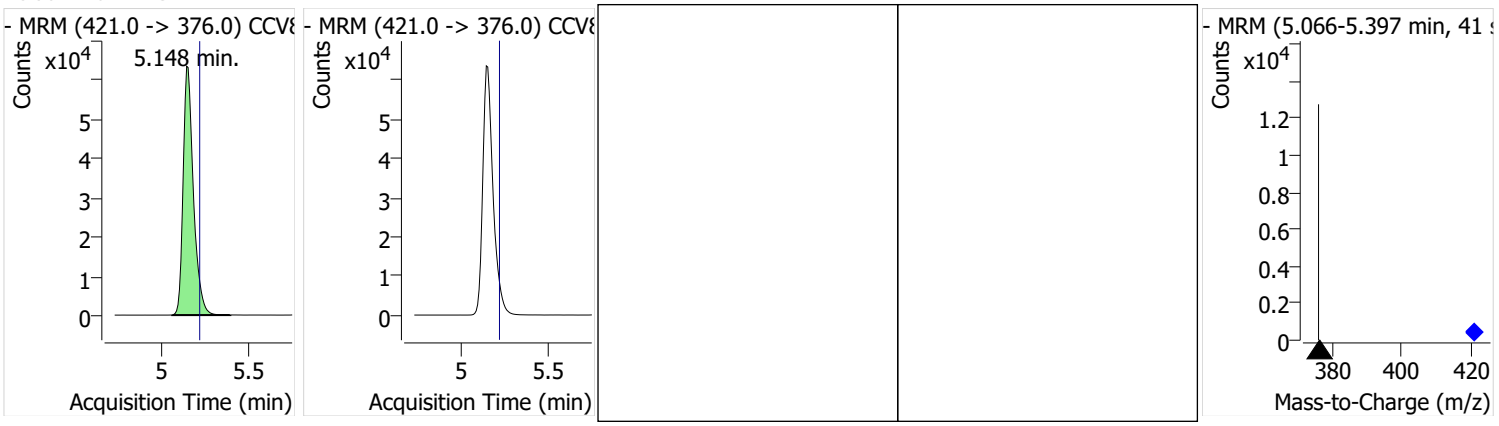
13C6-PFDA - ISTD



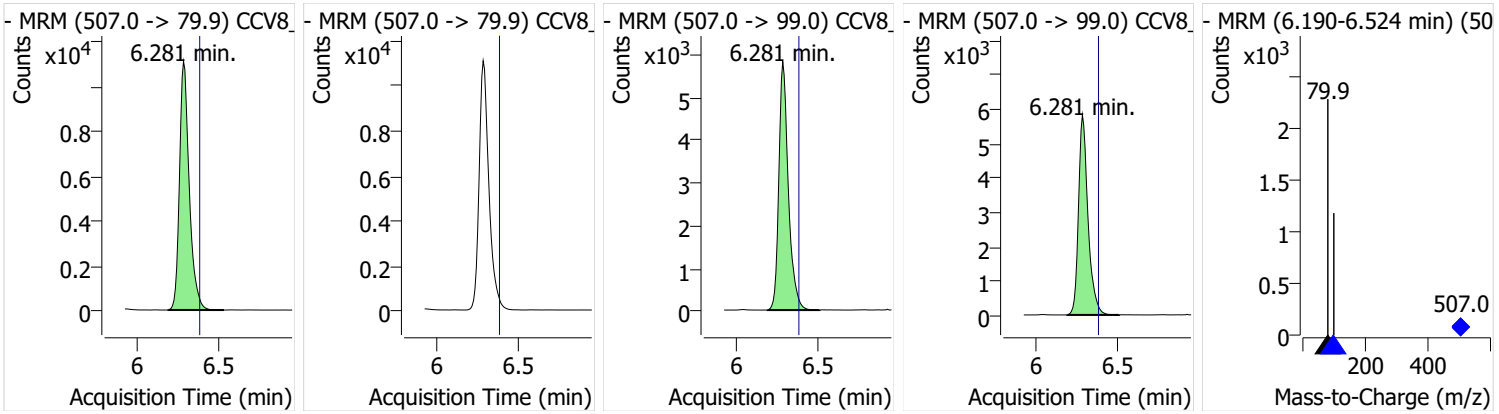
13C7-PFUnA - ISTD



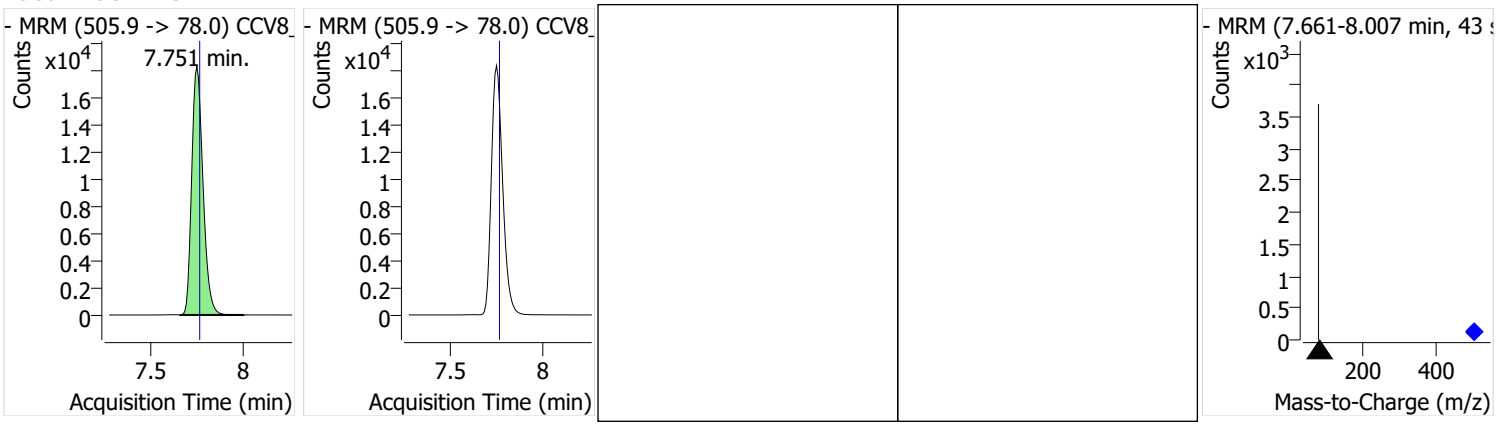
13C8-PFOA - ISTD



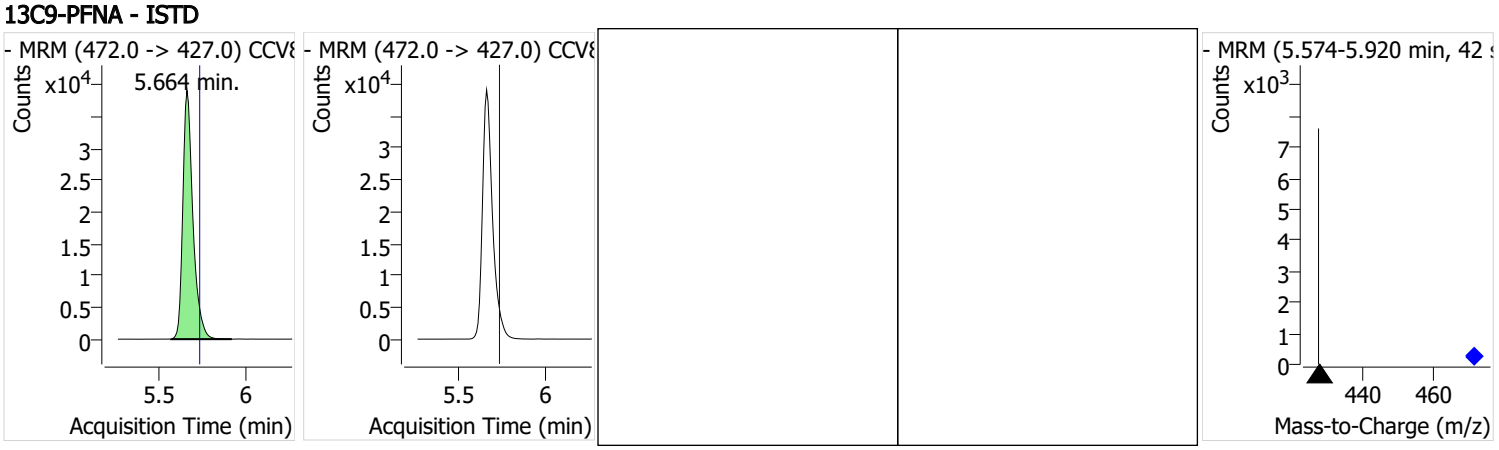
13C8-PFOS - ISTD



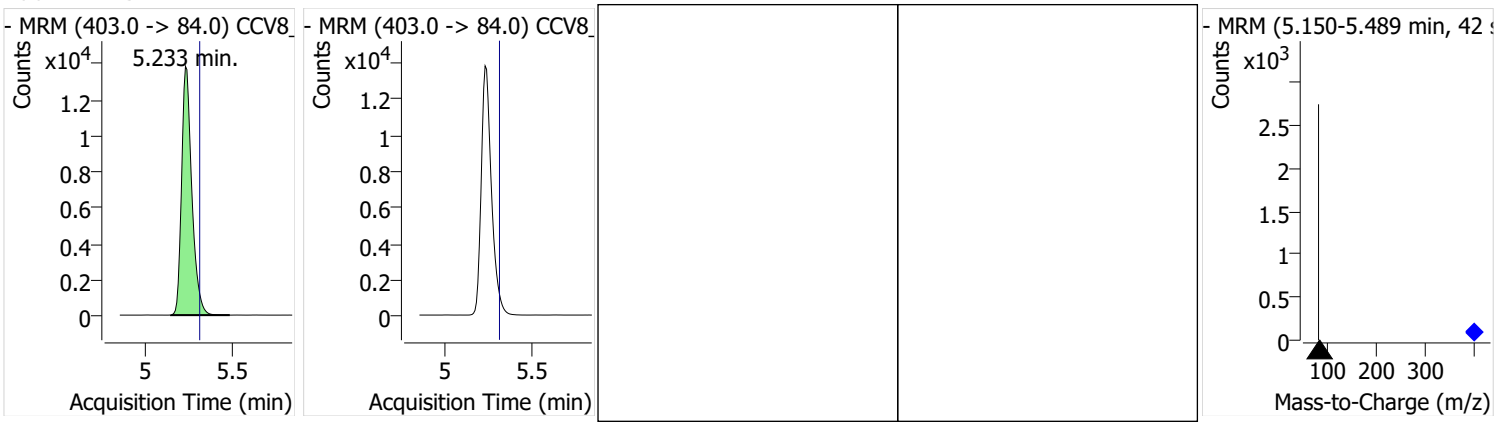
13C8-PFOSA - ISTD



13C9-PFNA - ISTD



18O2-PFHxS



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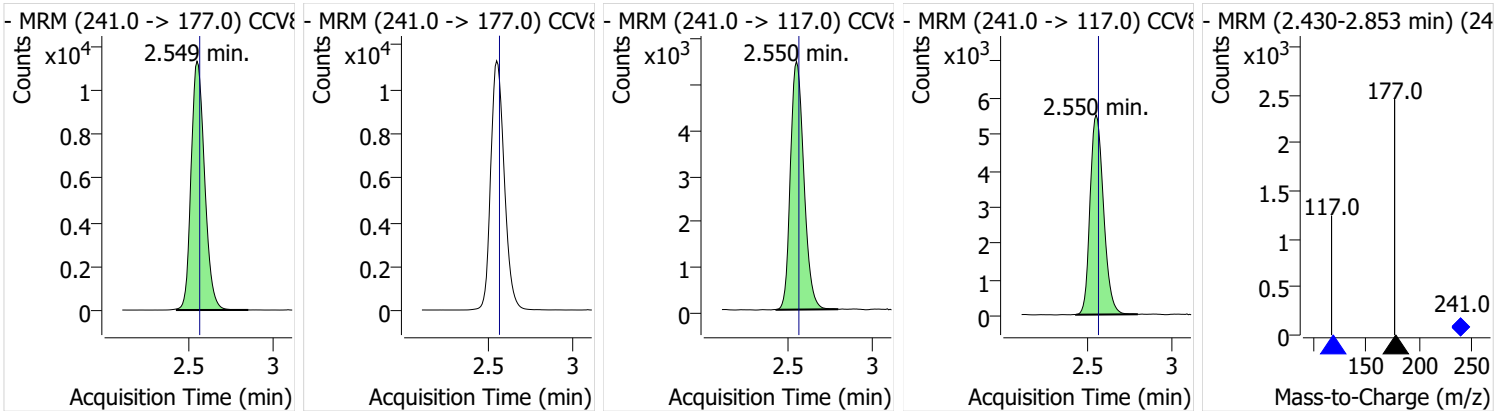
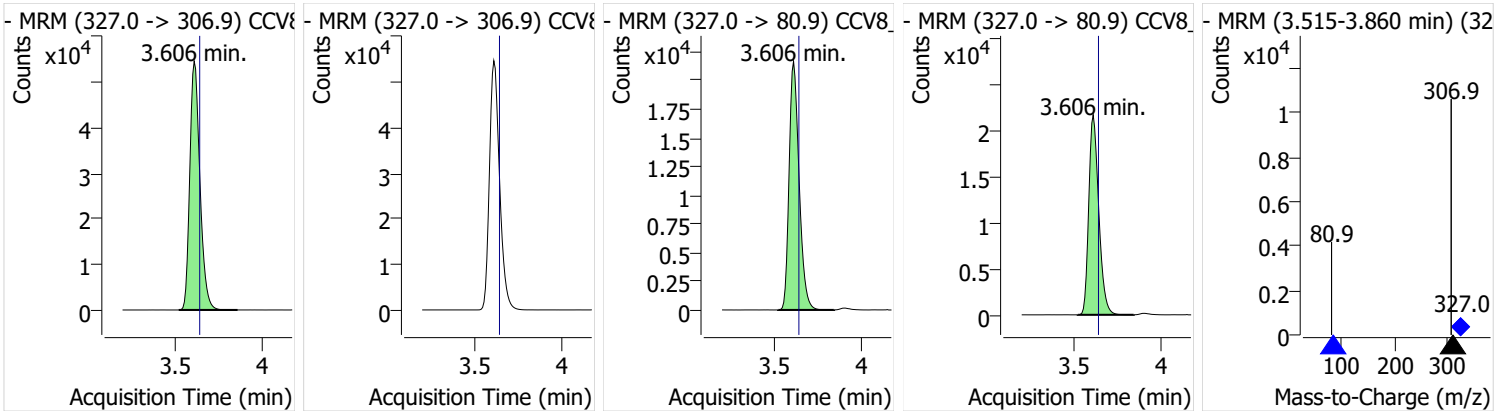


4:2FTS



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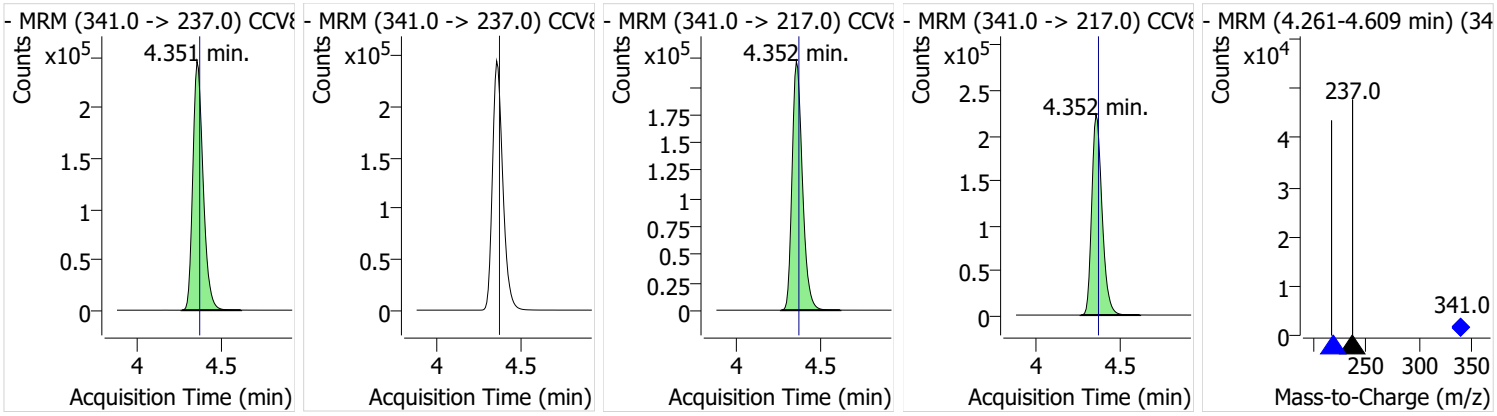
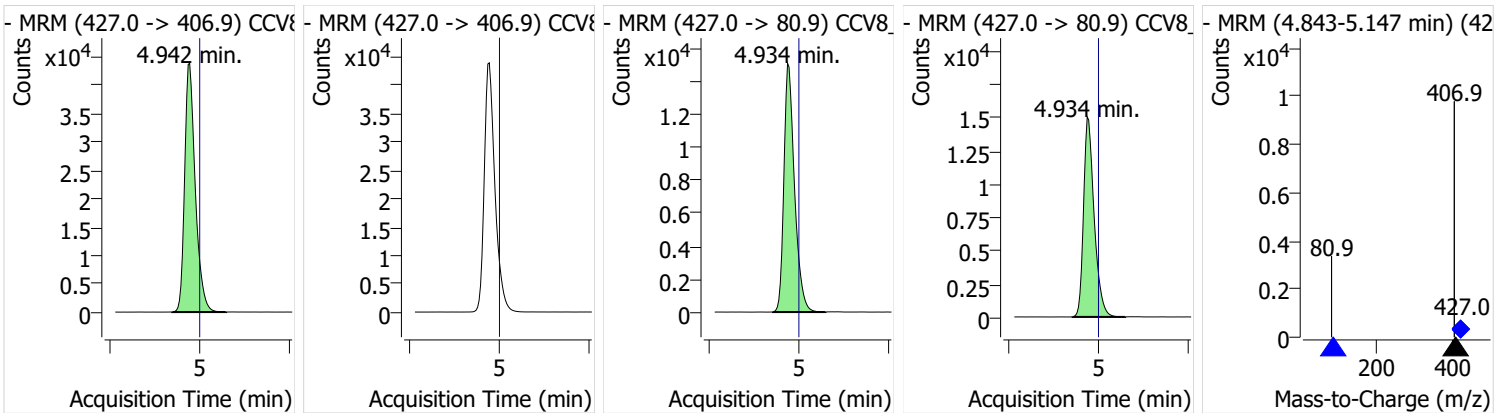


6:2FTS



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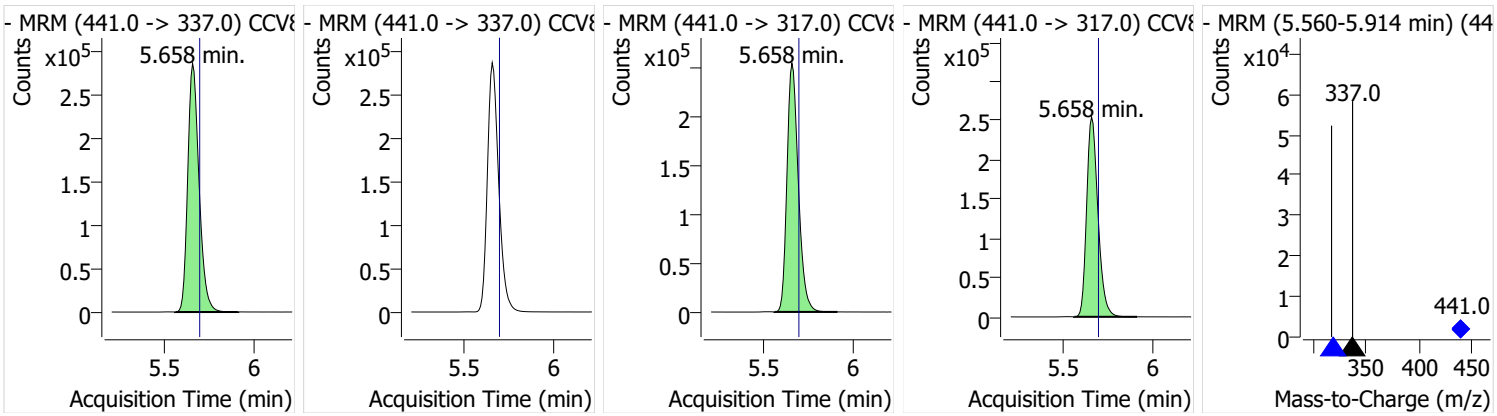
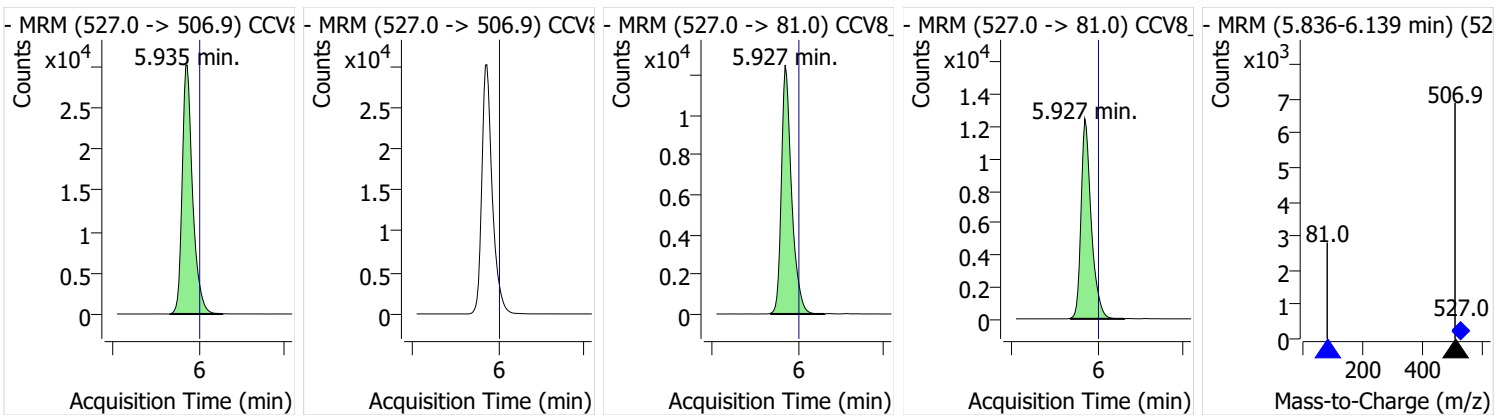
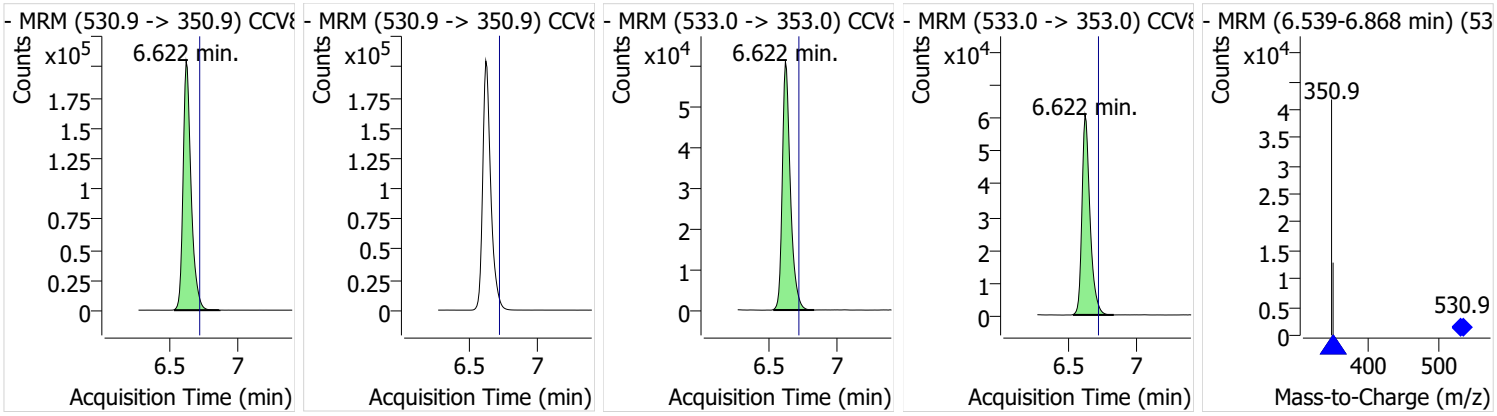


8:2FTS



9Cl-PF3ONS



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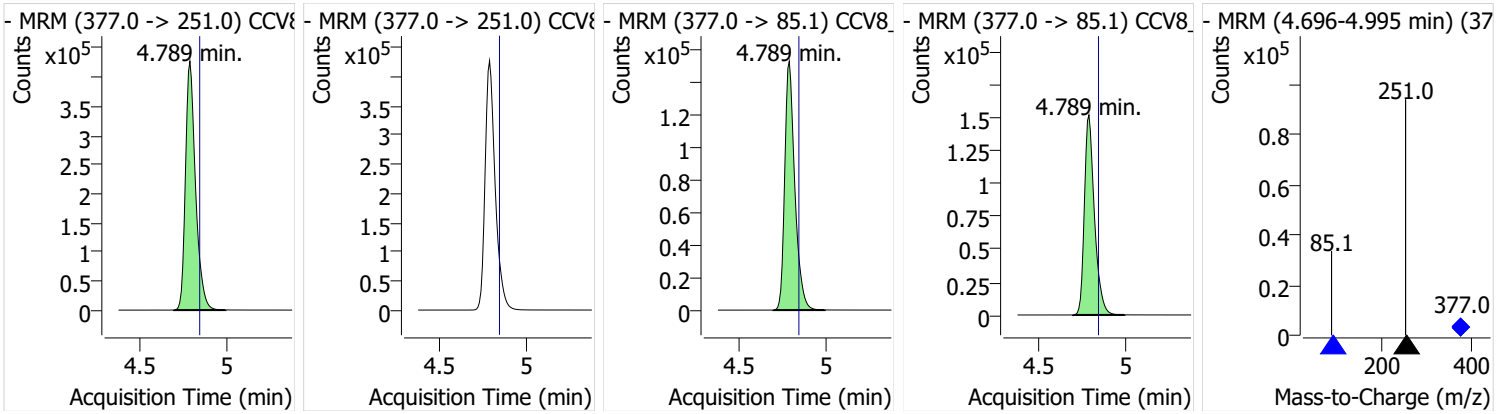
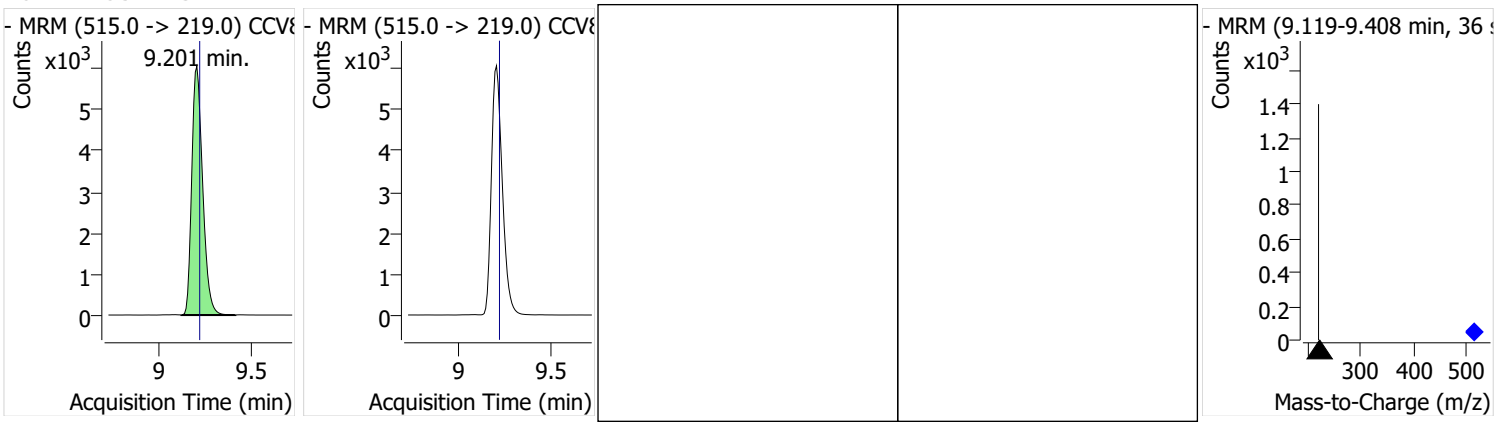
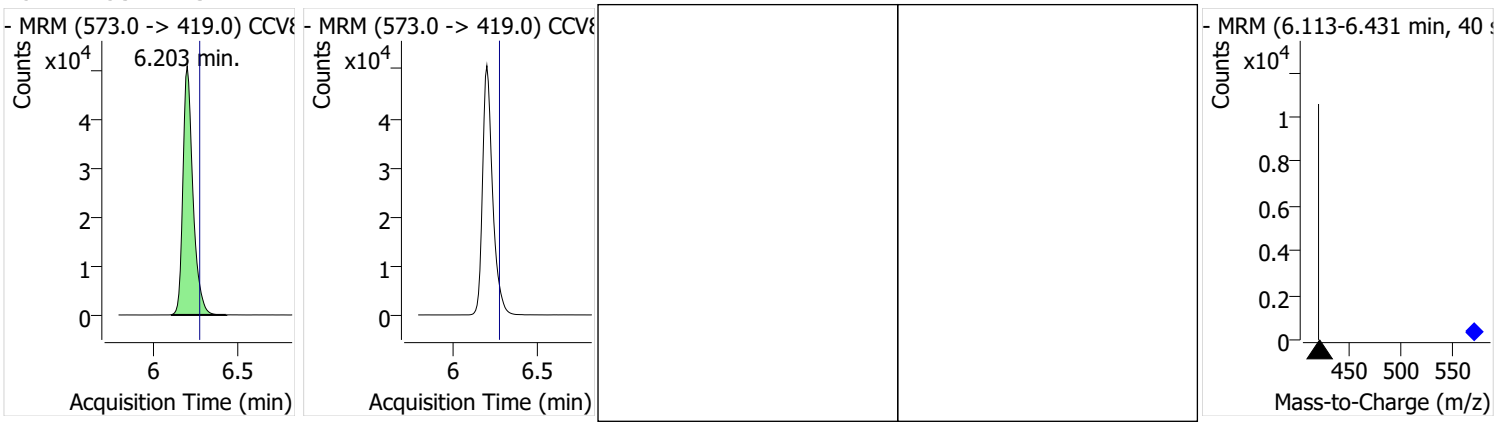


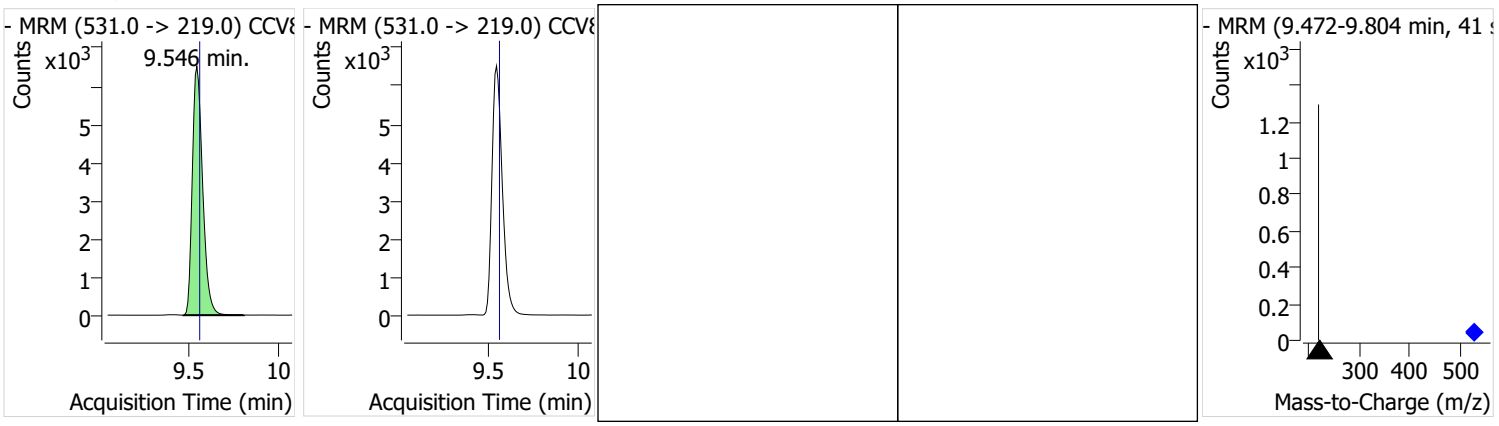
D3-NMeFOSA - ISTD



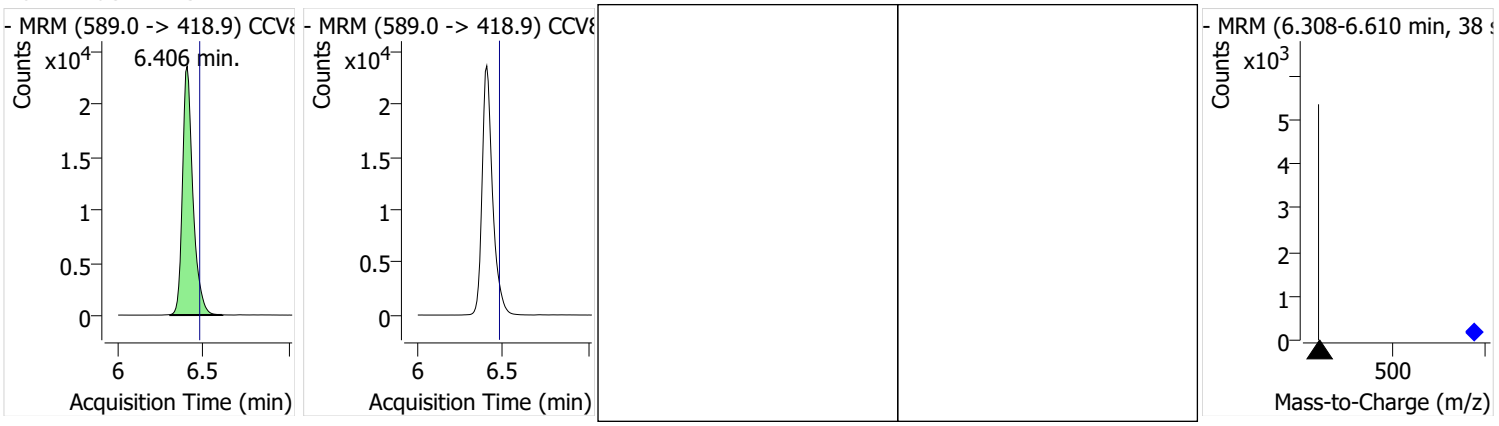
D3-NMeFOSAA - ISTD



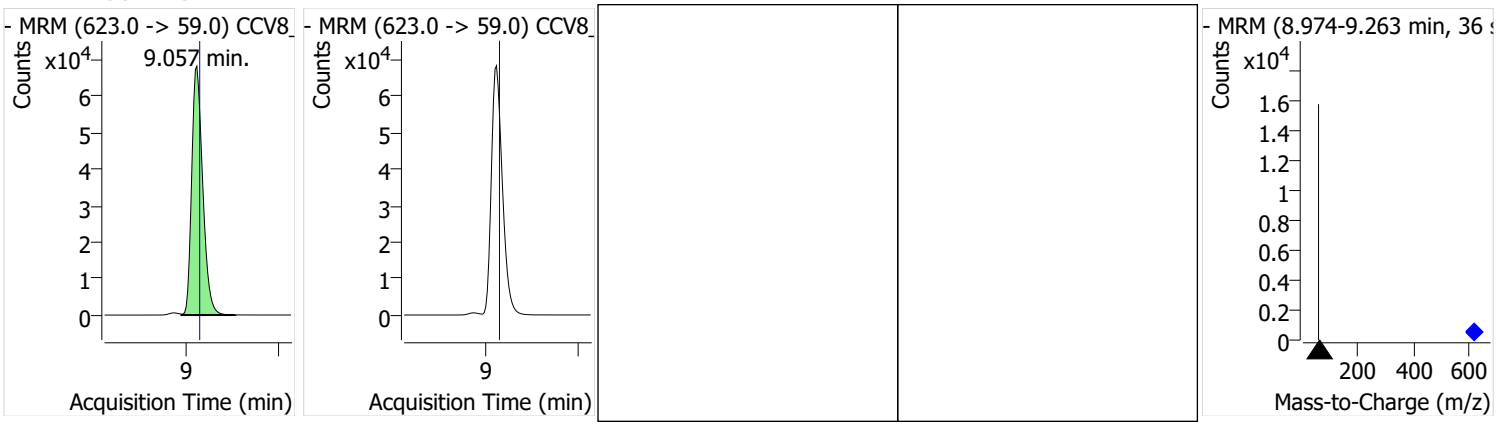
D5-NEtFOSA - ISTD



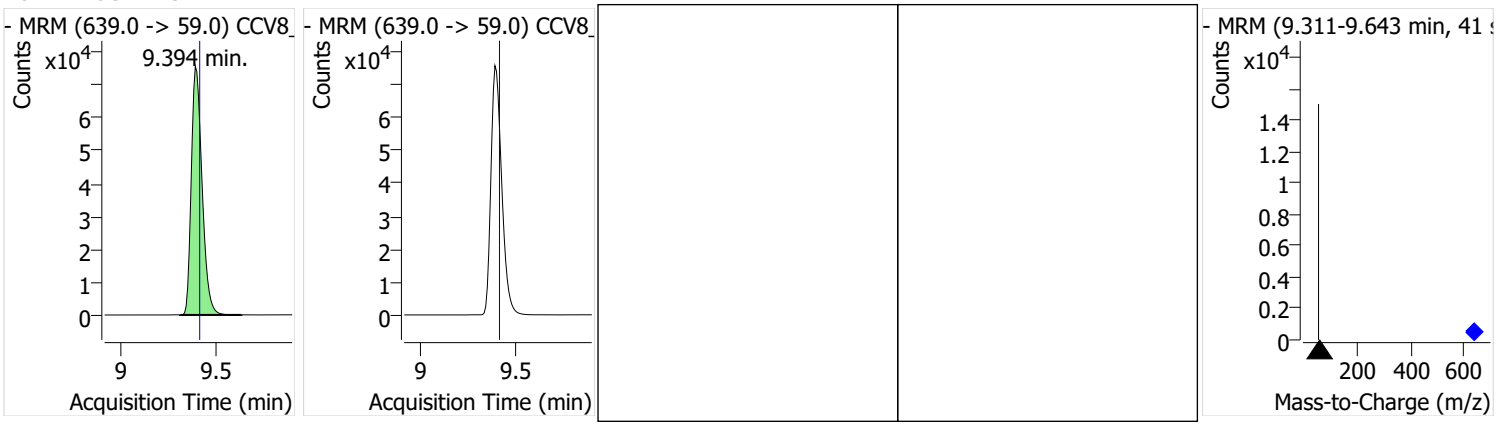
D5-NEtFOSAA - ISTD



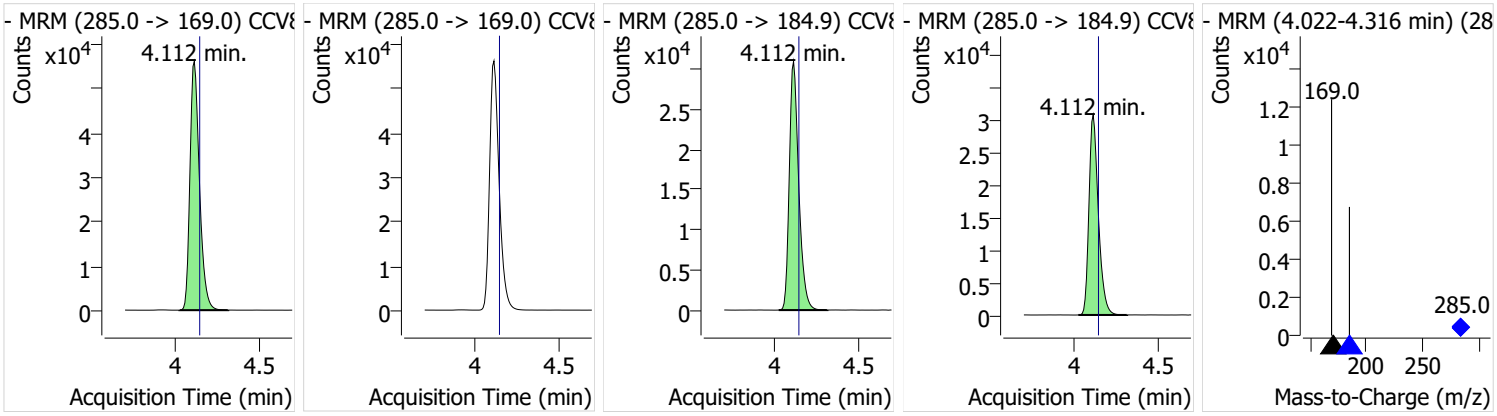
D7-NMeFOSE - ISTD



D9-NEtFOSE - ISTD



HFPO-DA



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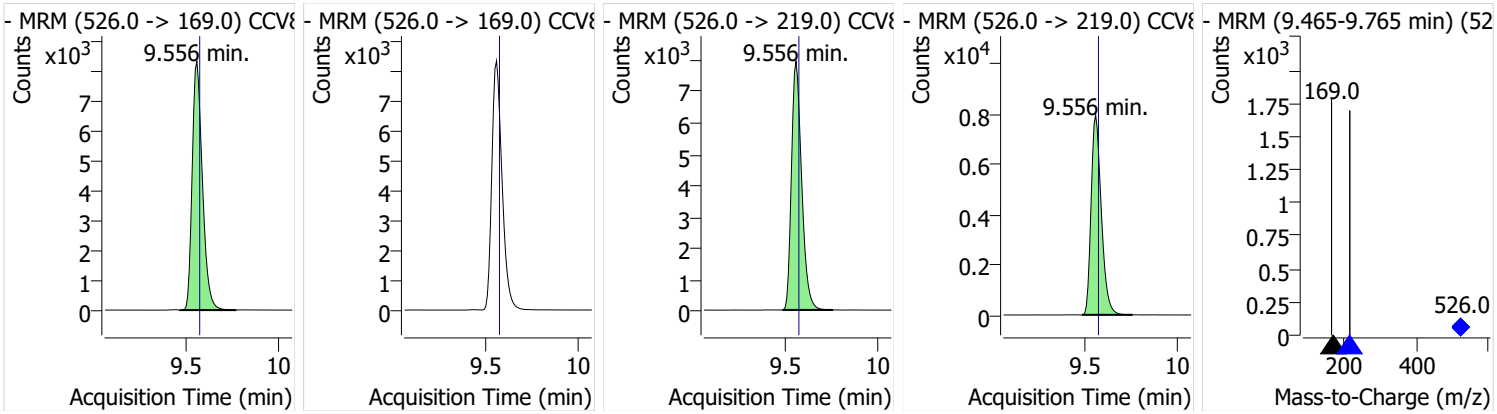

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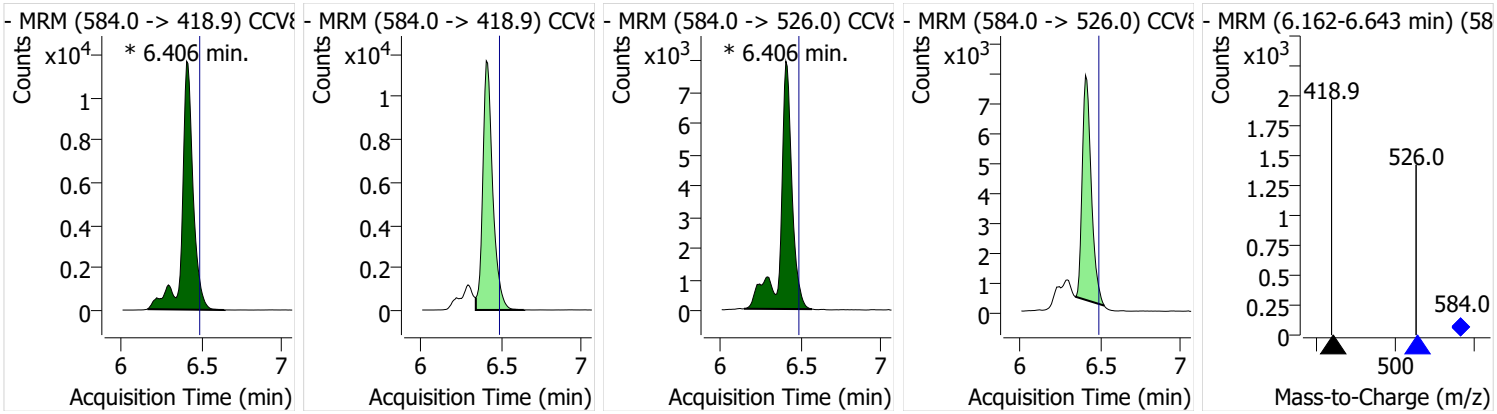

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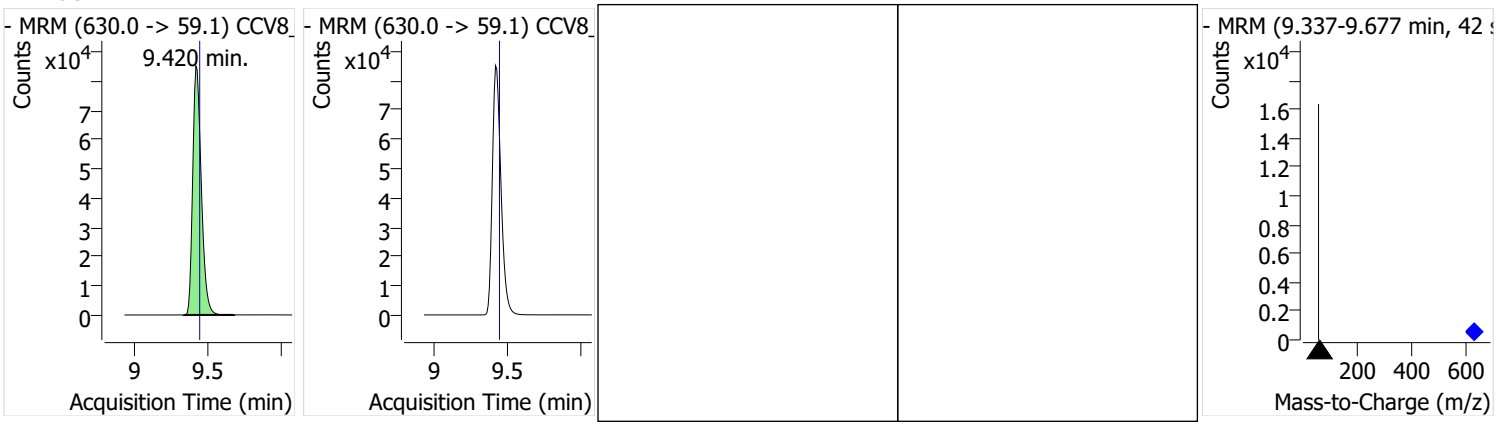

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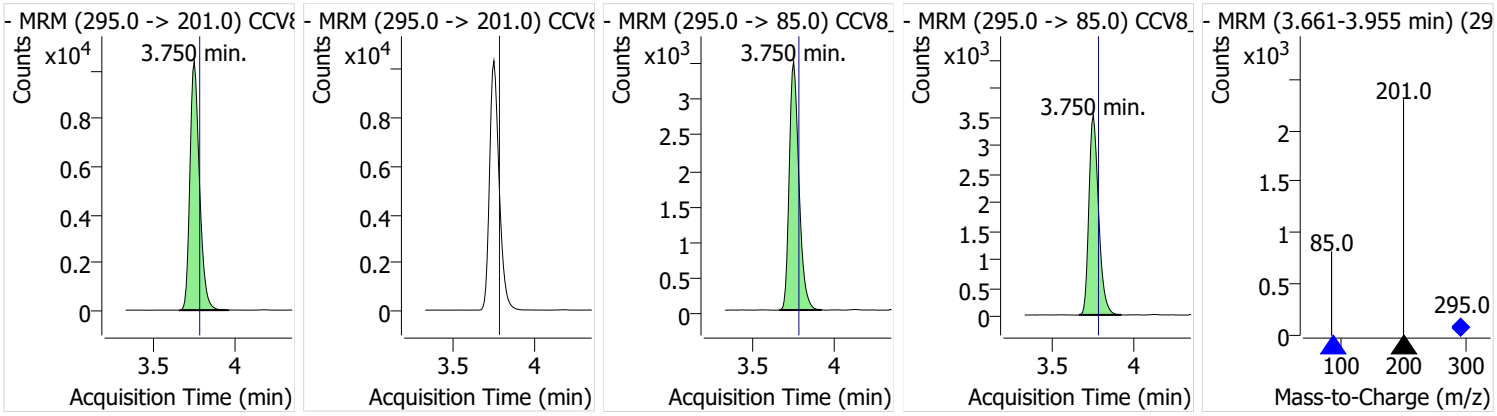

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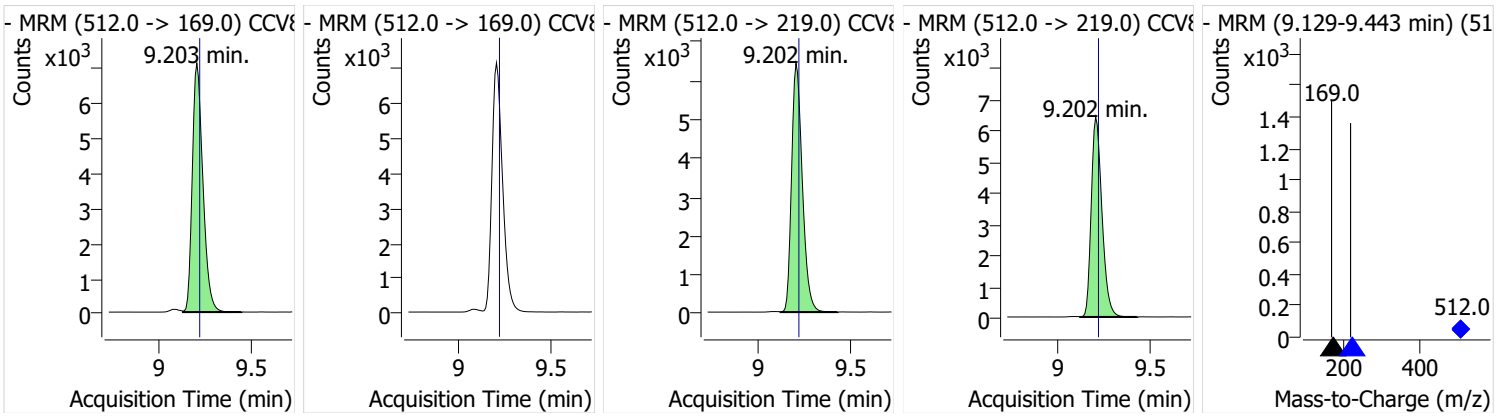

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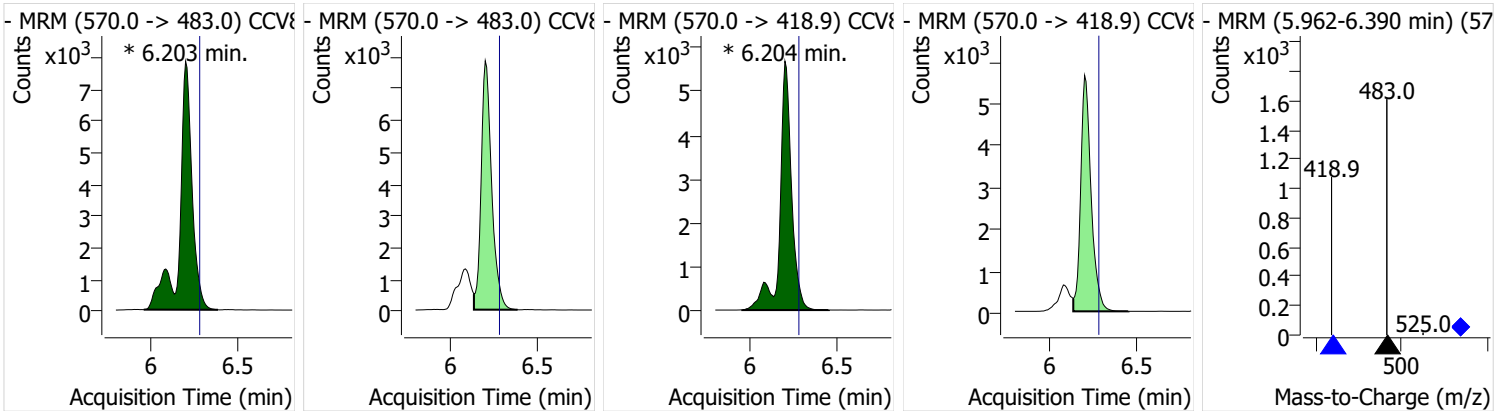

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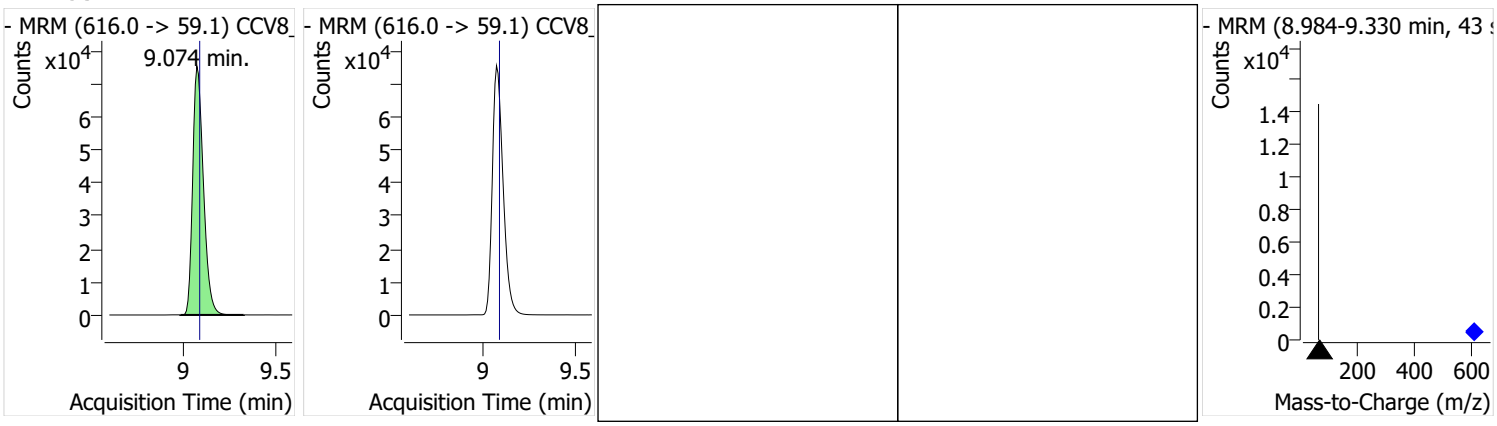
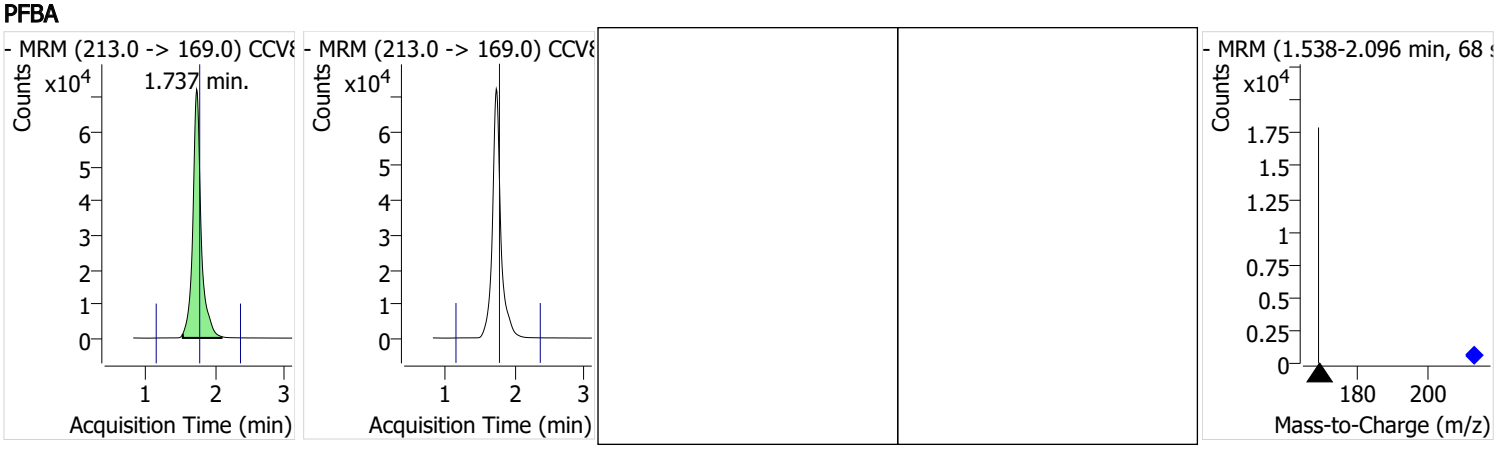


PFBA



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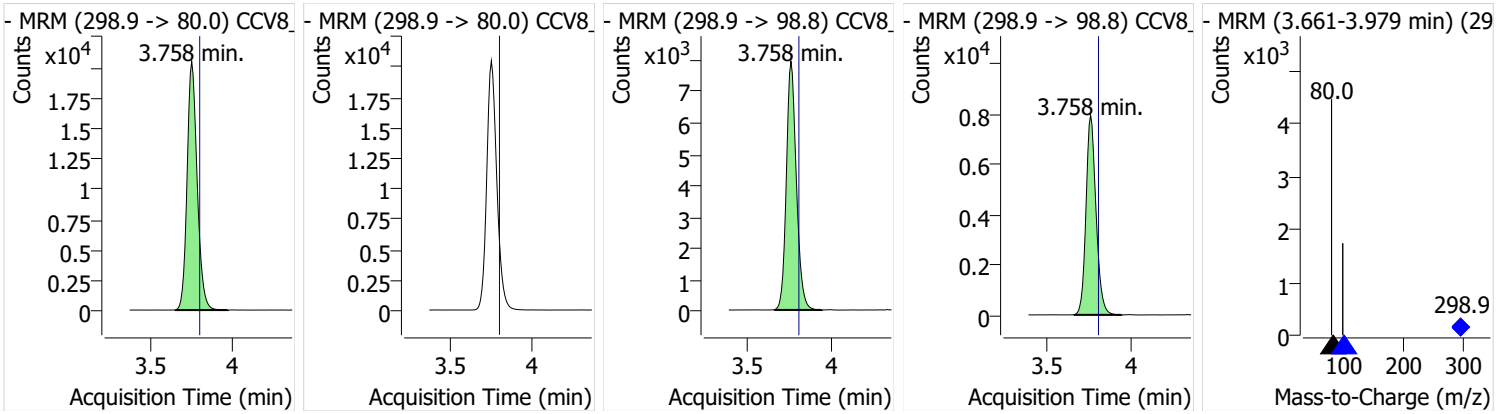

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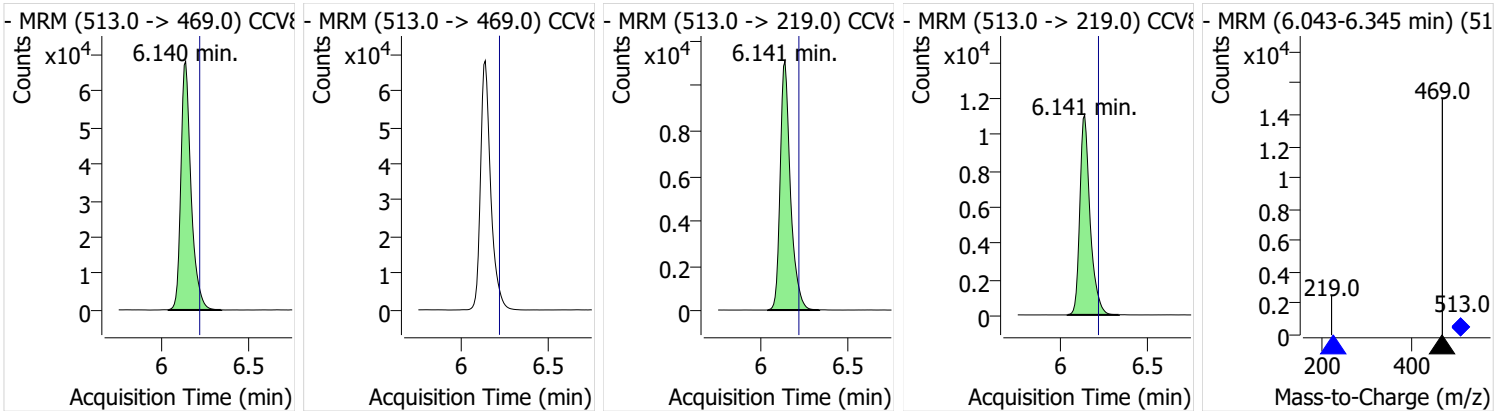

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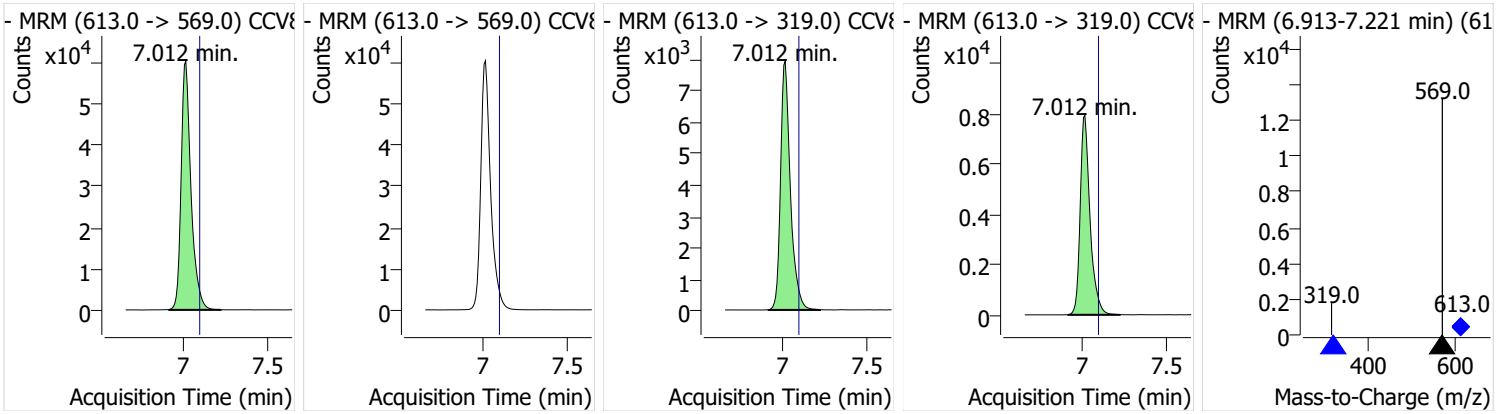

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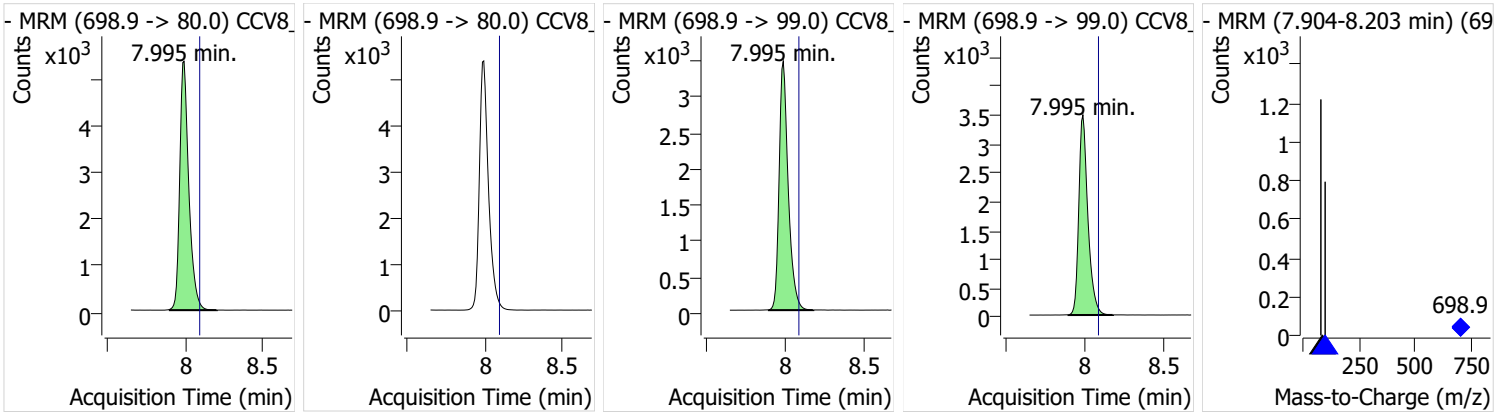

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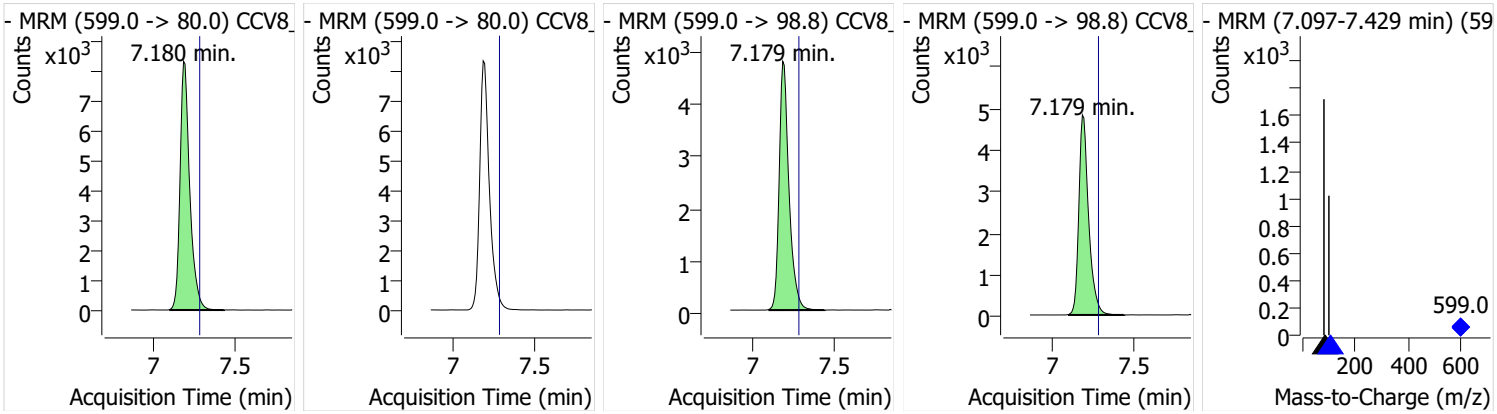

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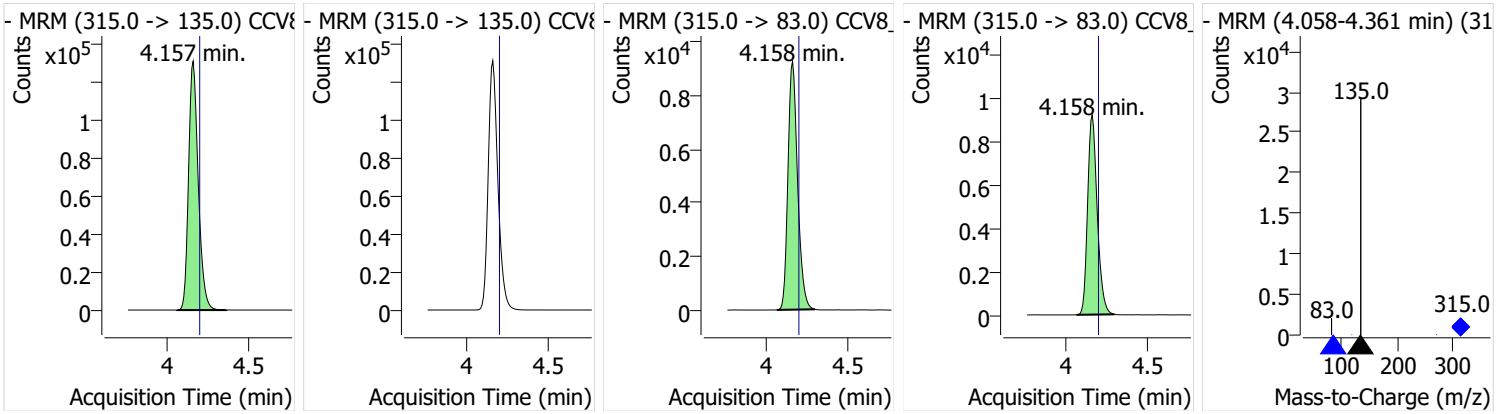
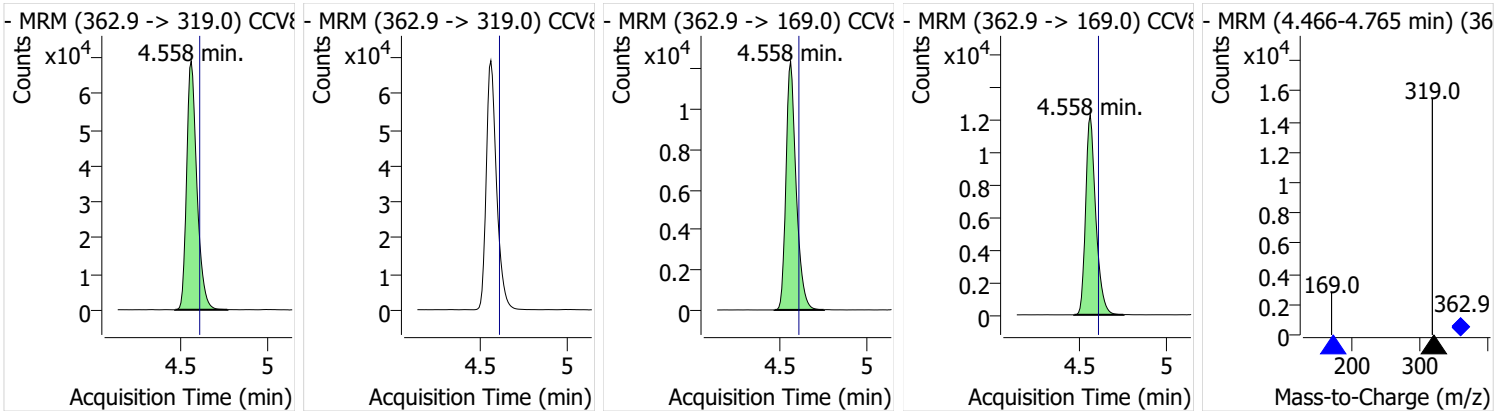


PFHpA



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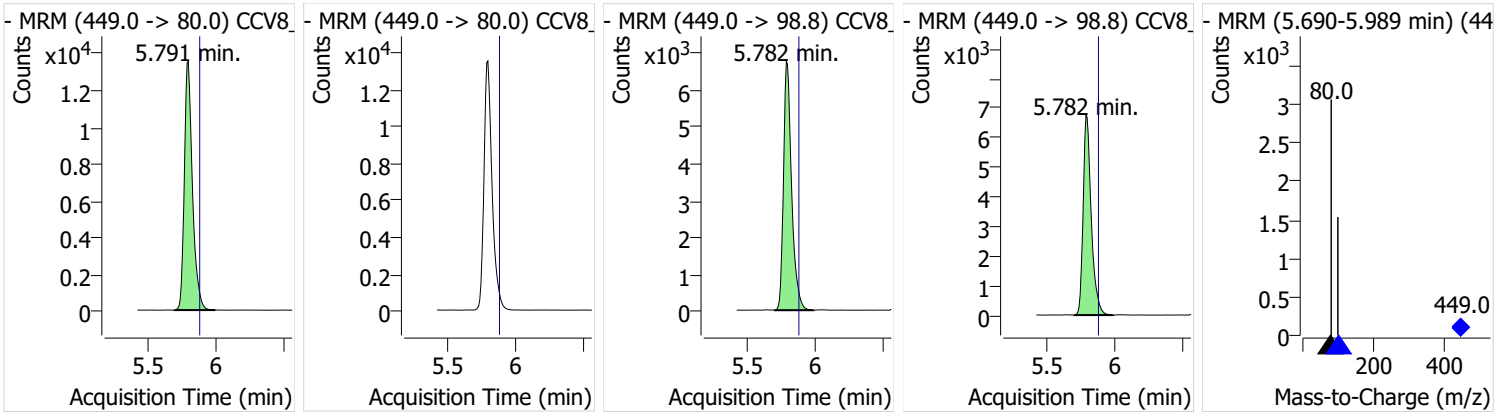
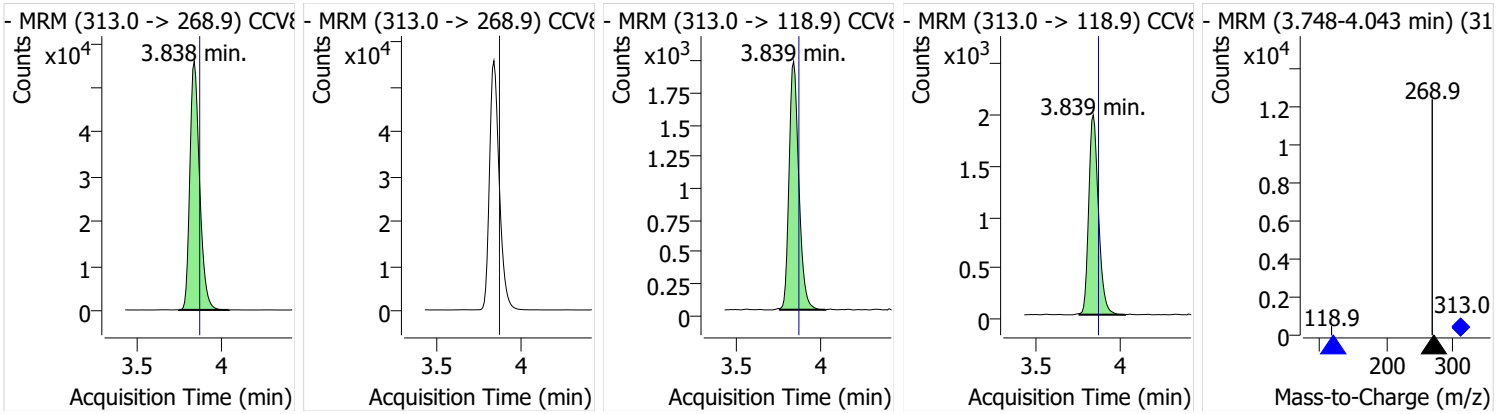
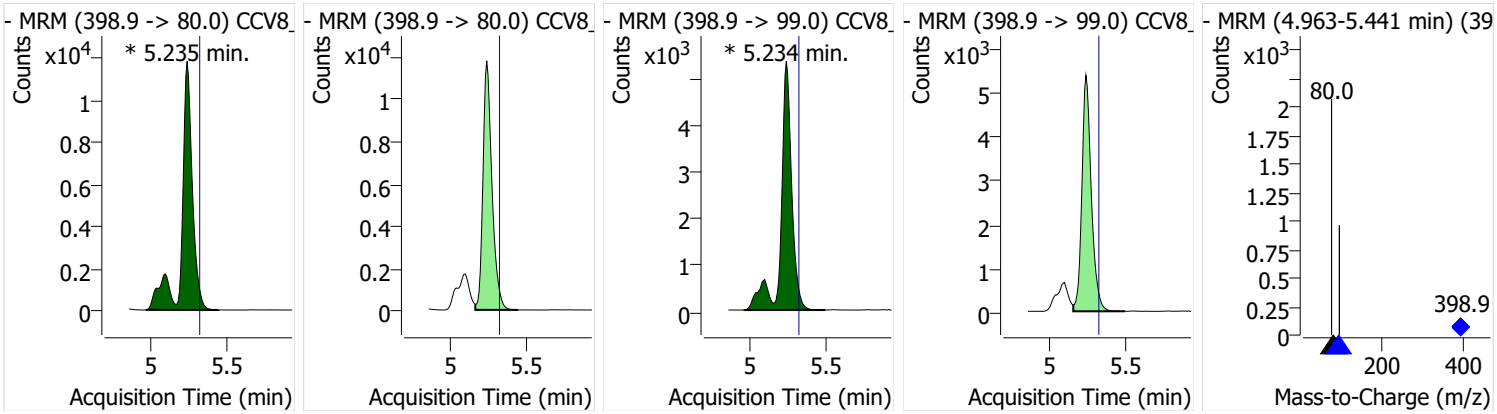


PFHxA



PFHxS



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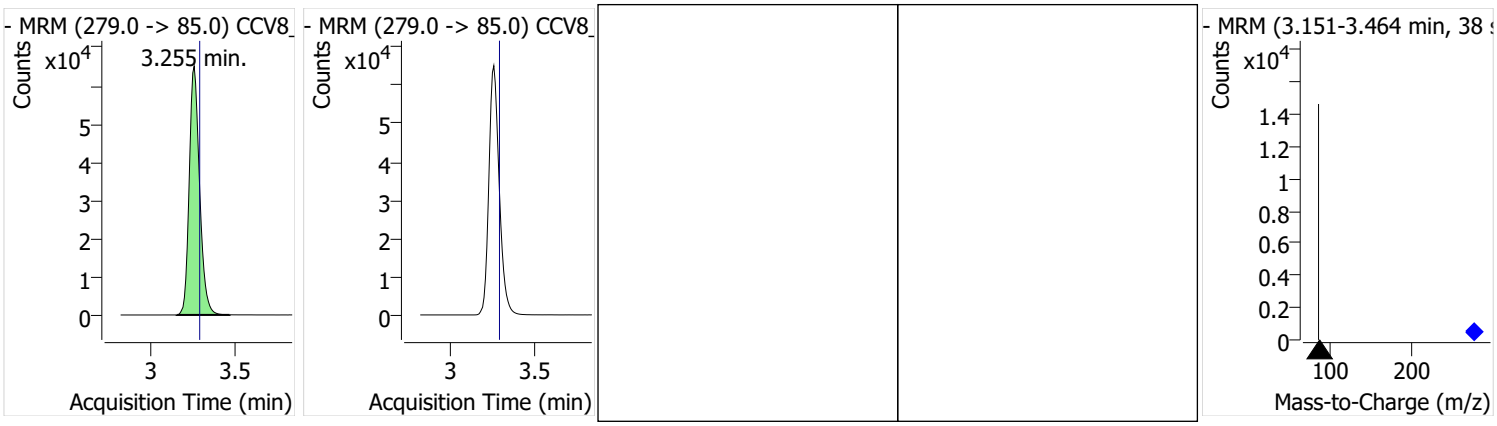

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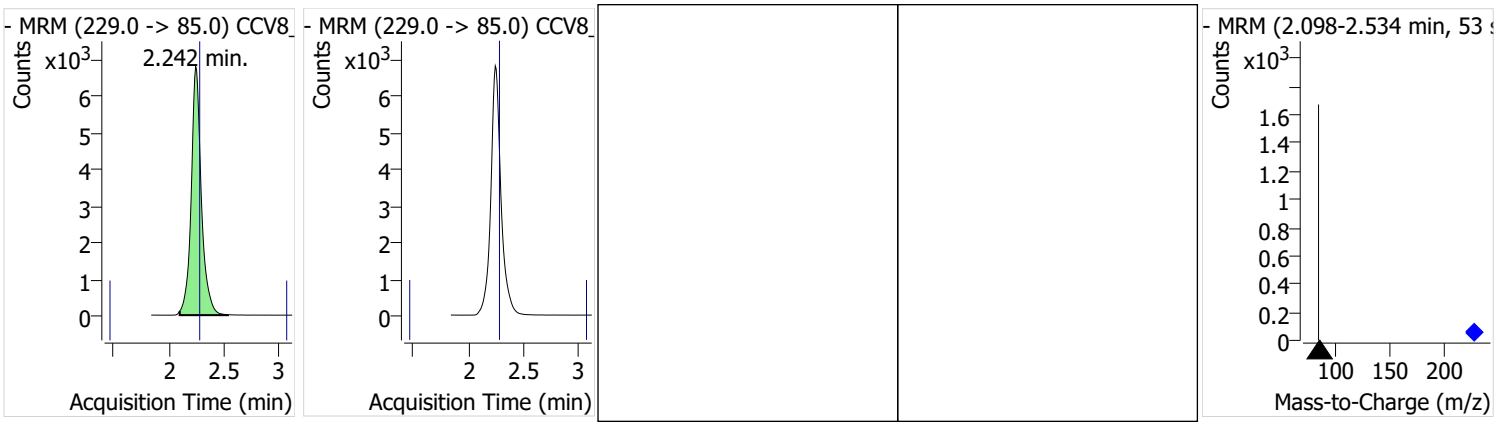

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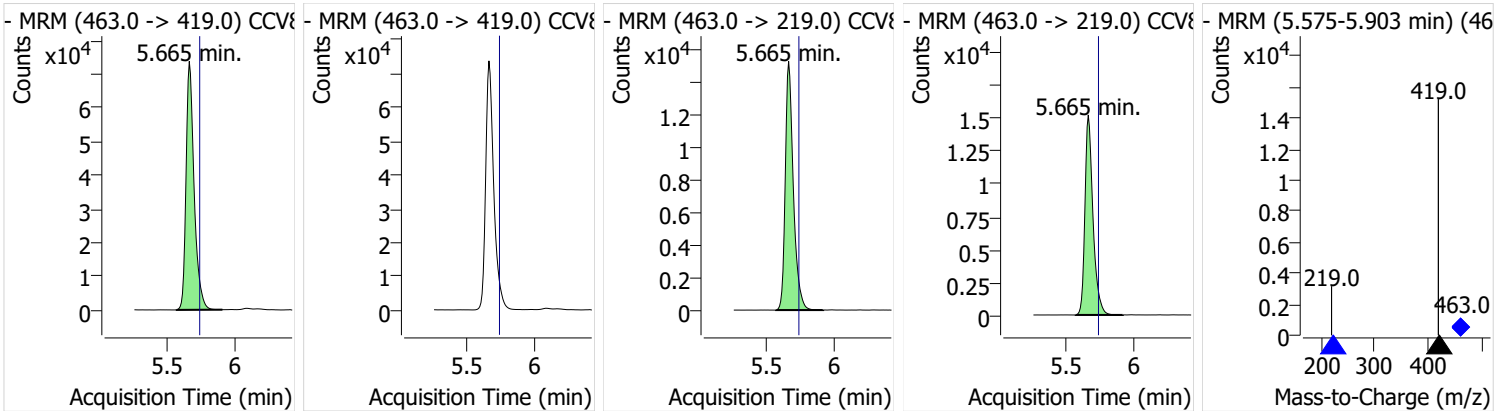
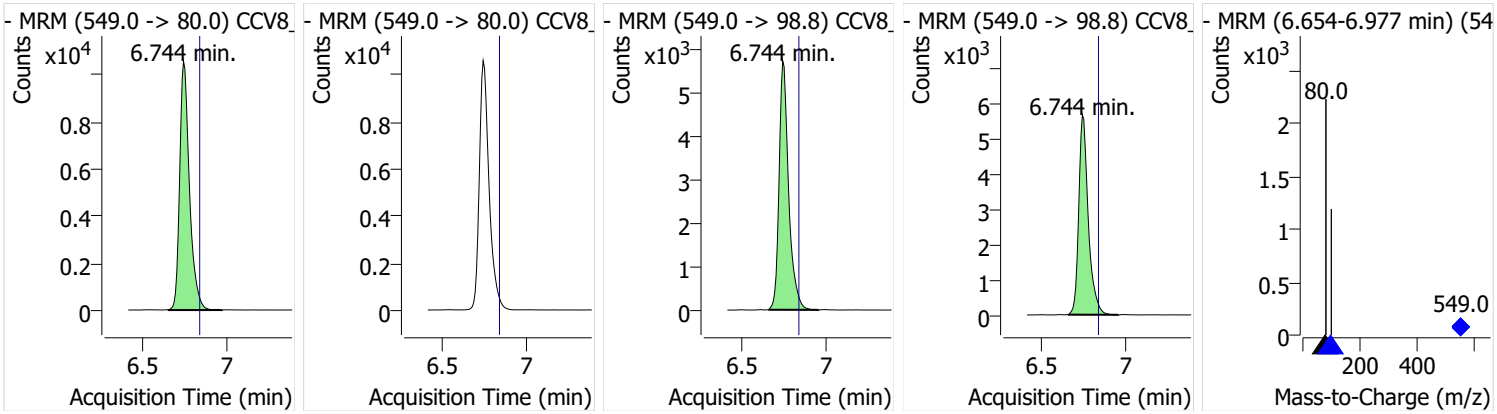
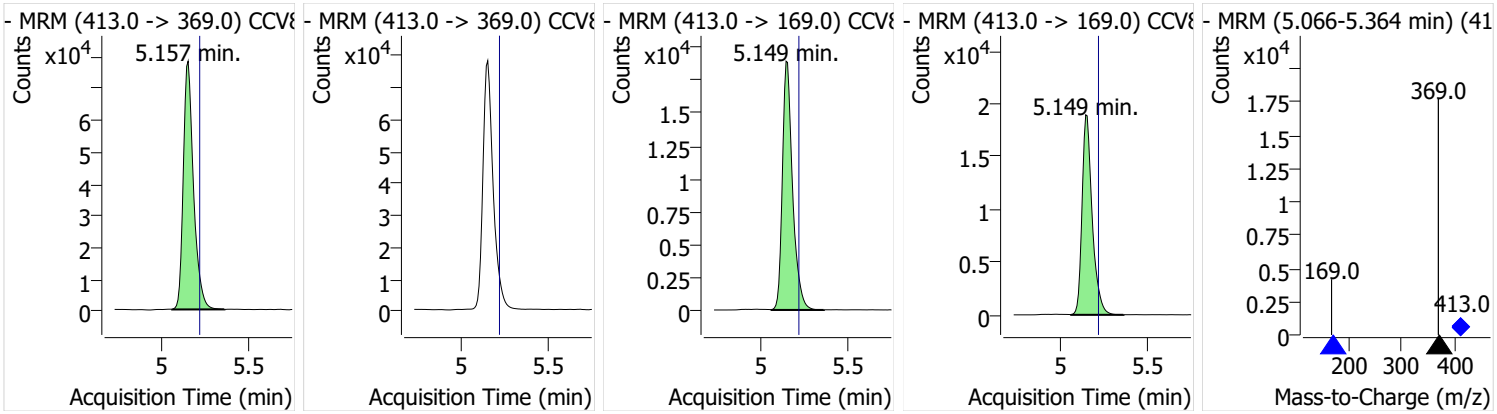


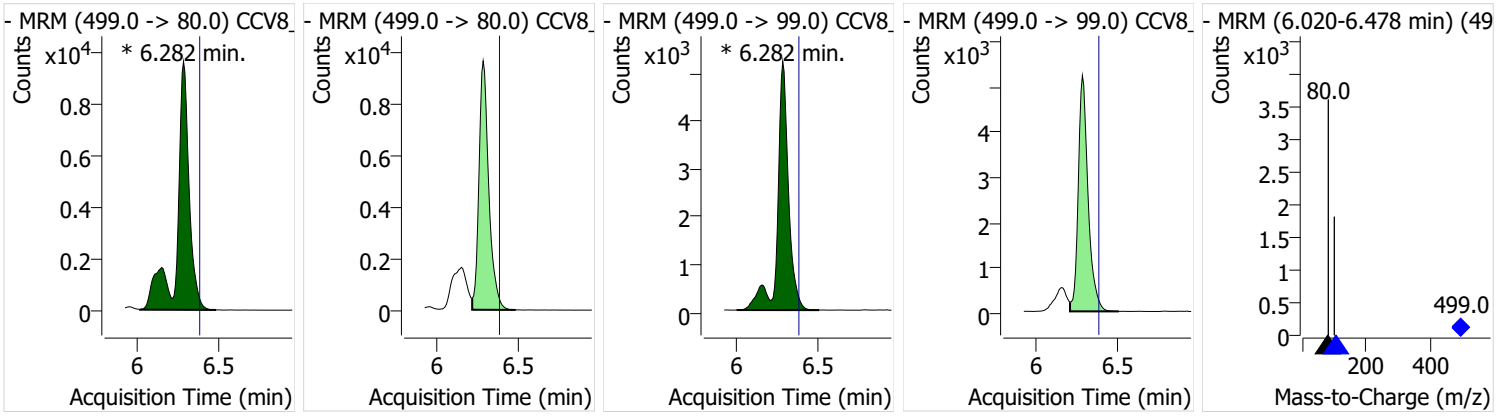
PFNS



PFOA



PFOS



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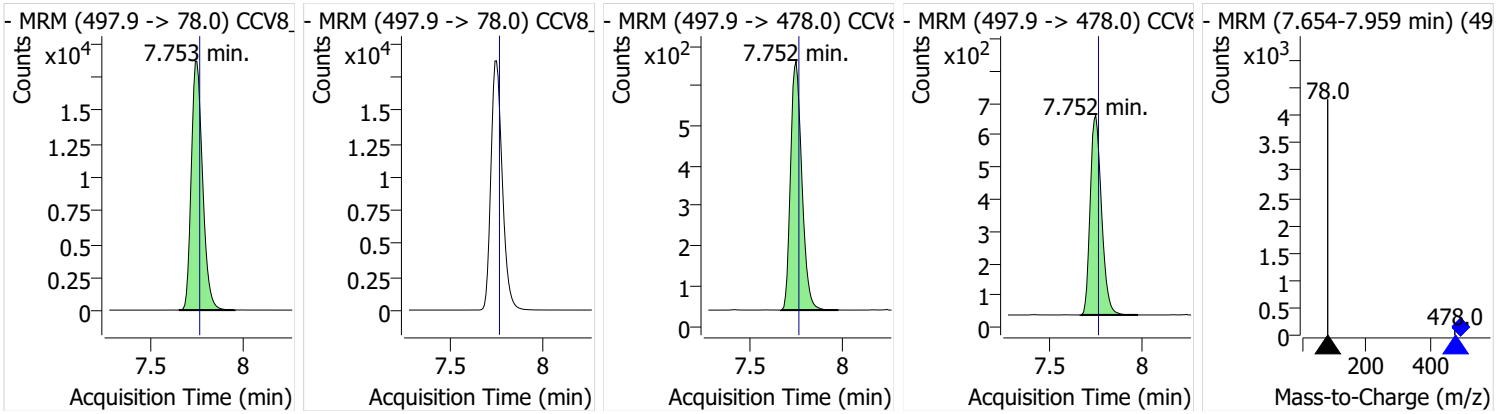
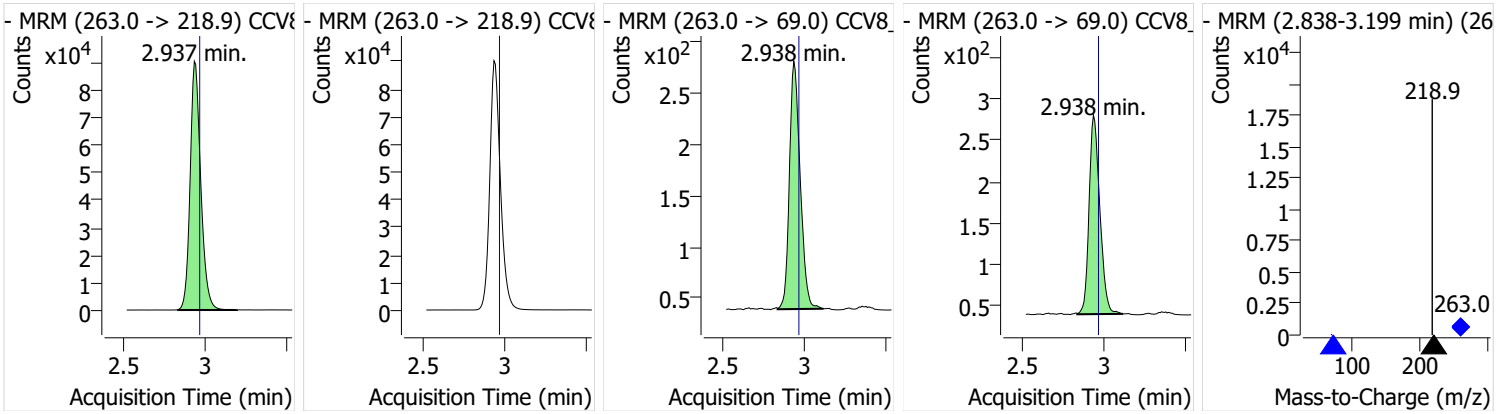


PFPeA



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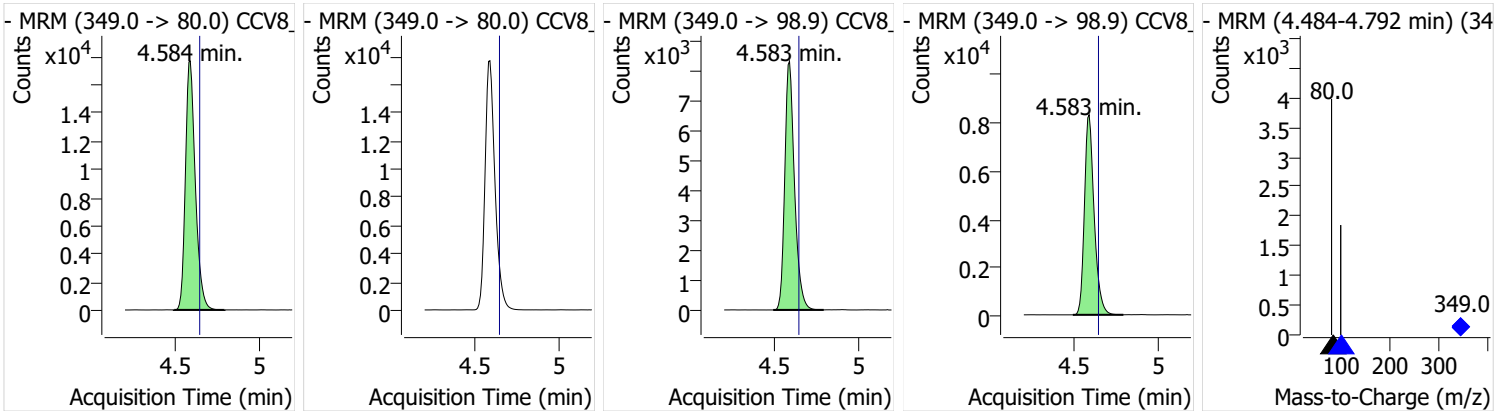
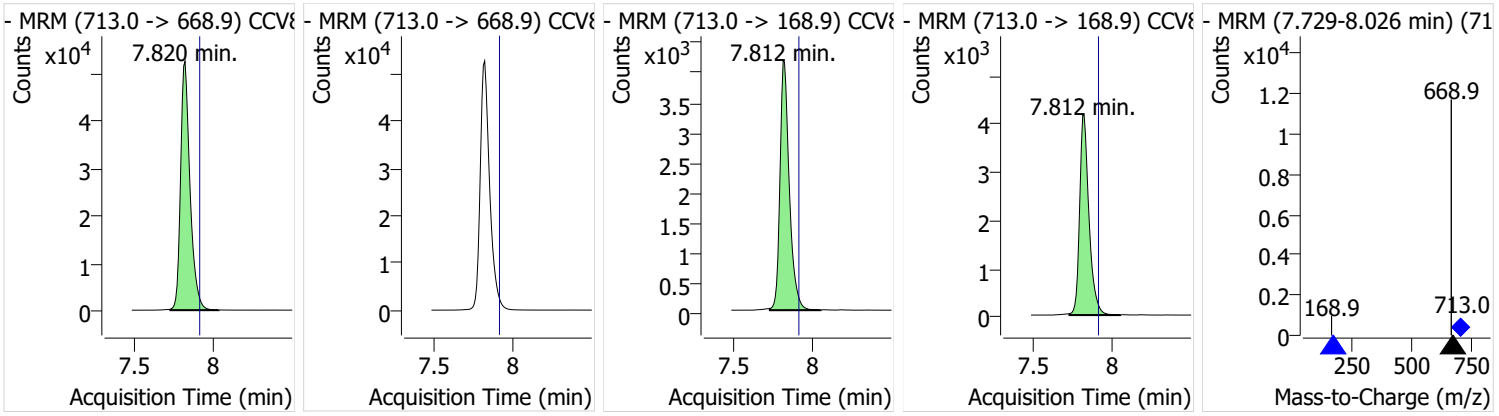
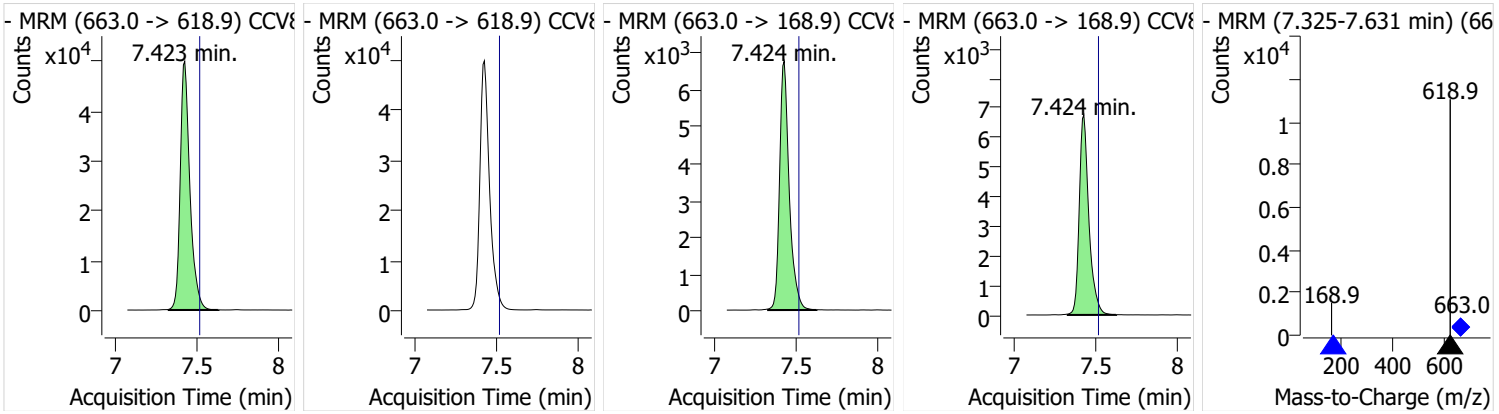


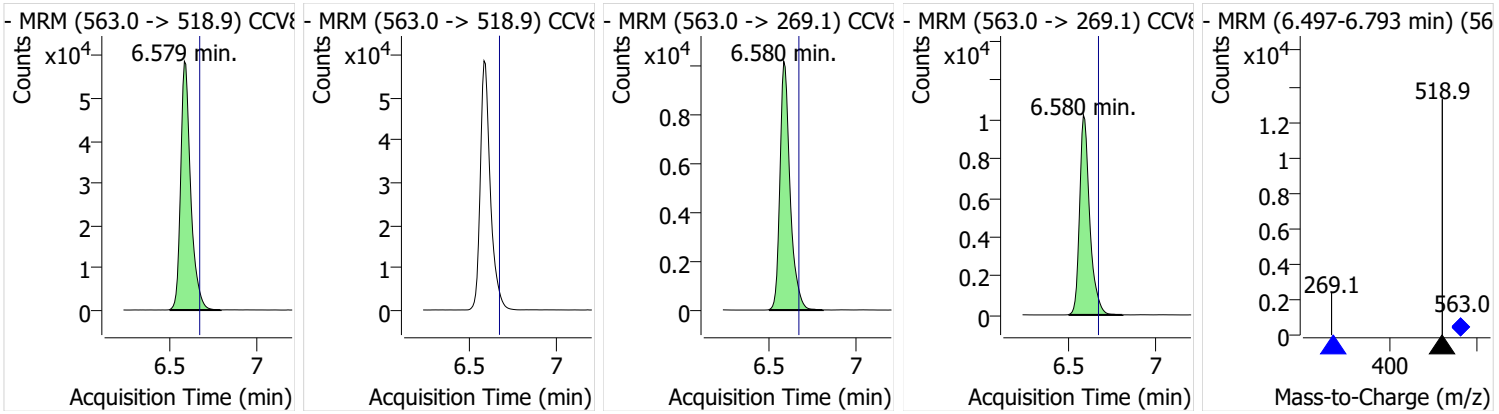
PFTeDA



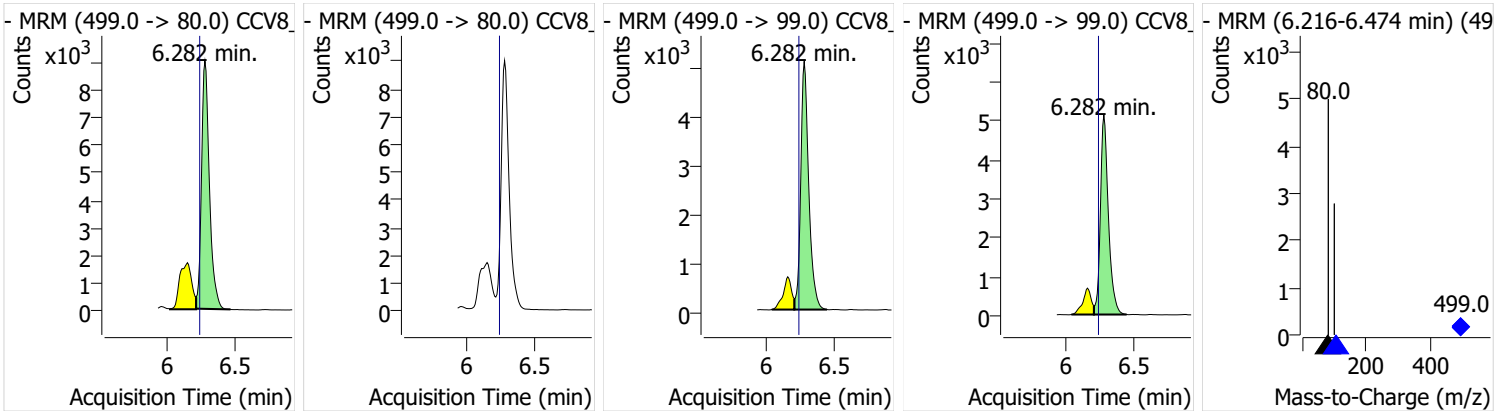
PFTrDA



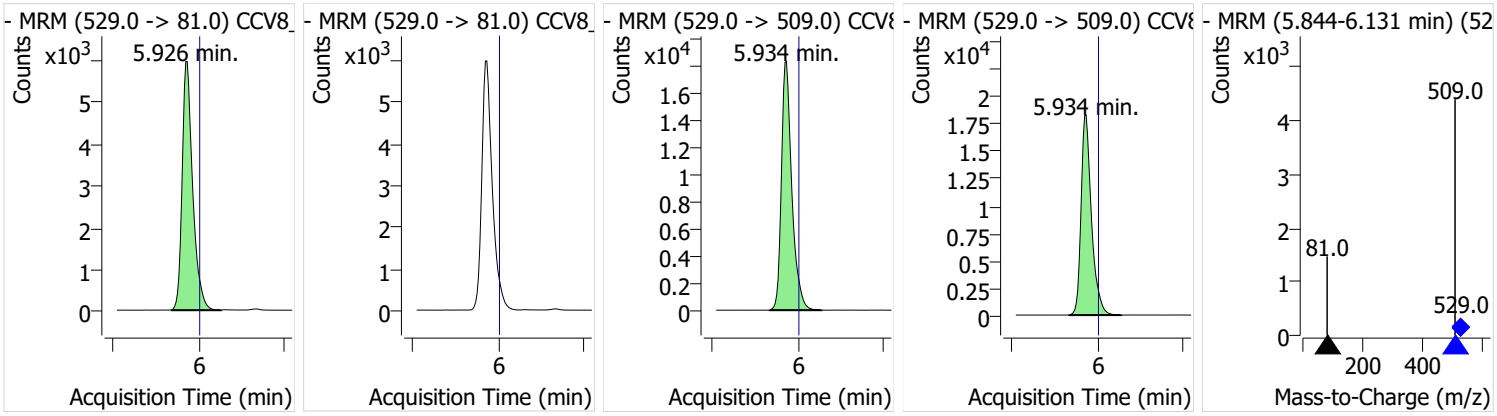
PFUnA



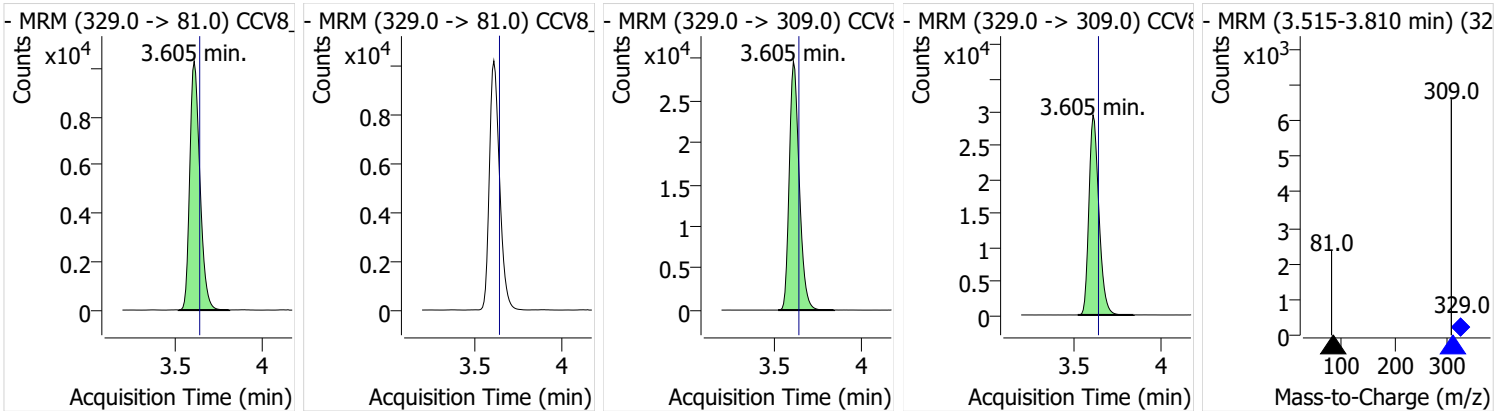
TDCA



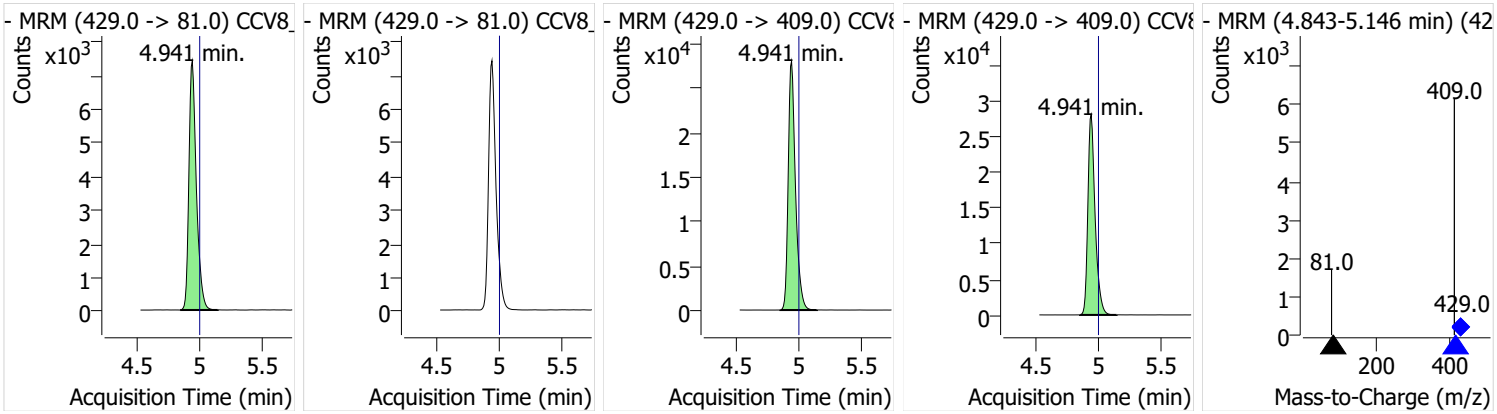
13C2-8:2FTS



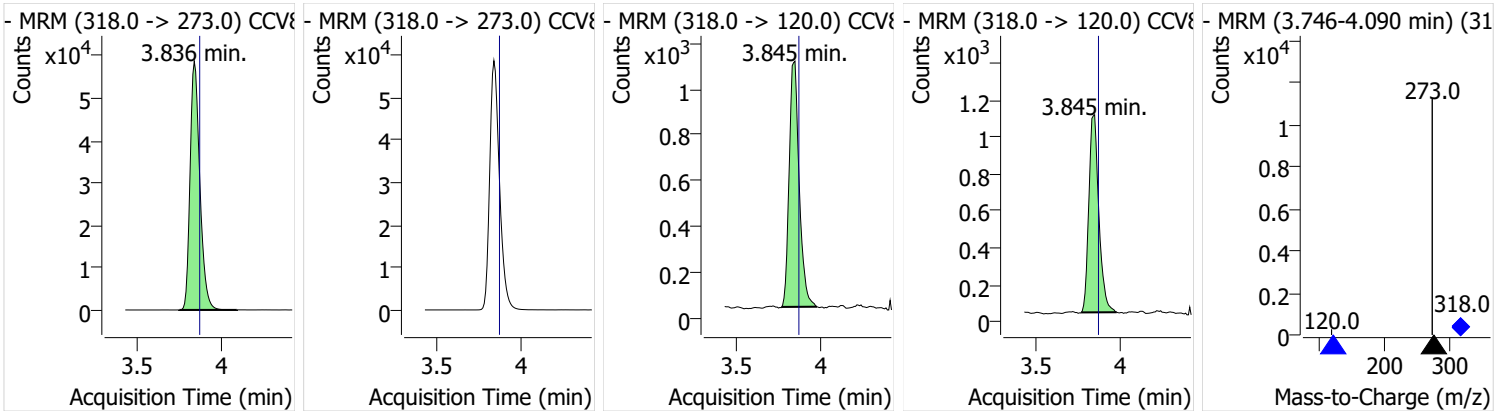
13C2-4:2FTS



13C2-6:2FTS



13C5-PFHxA



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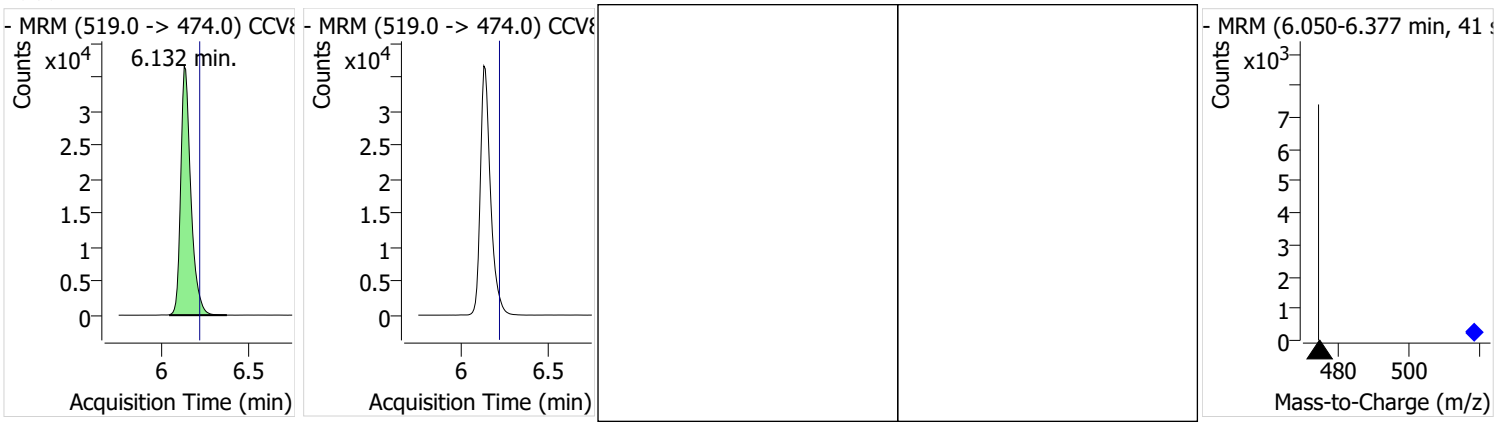
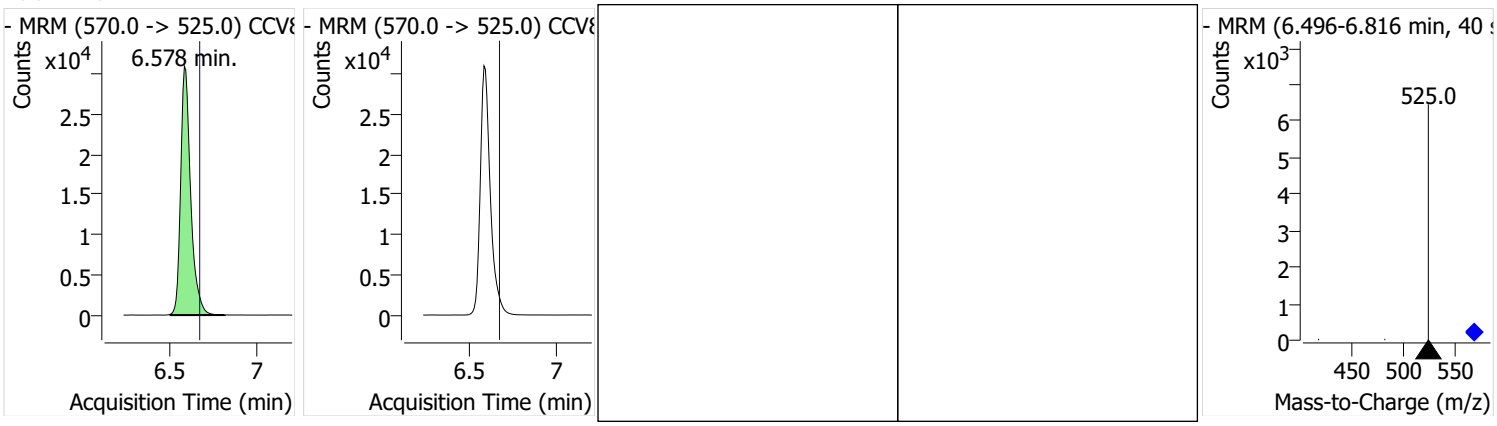


13C7-PFUnA



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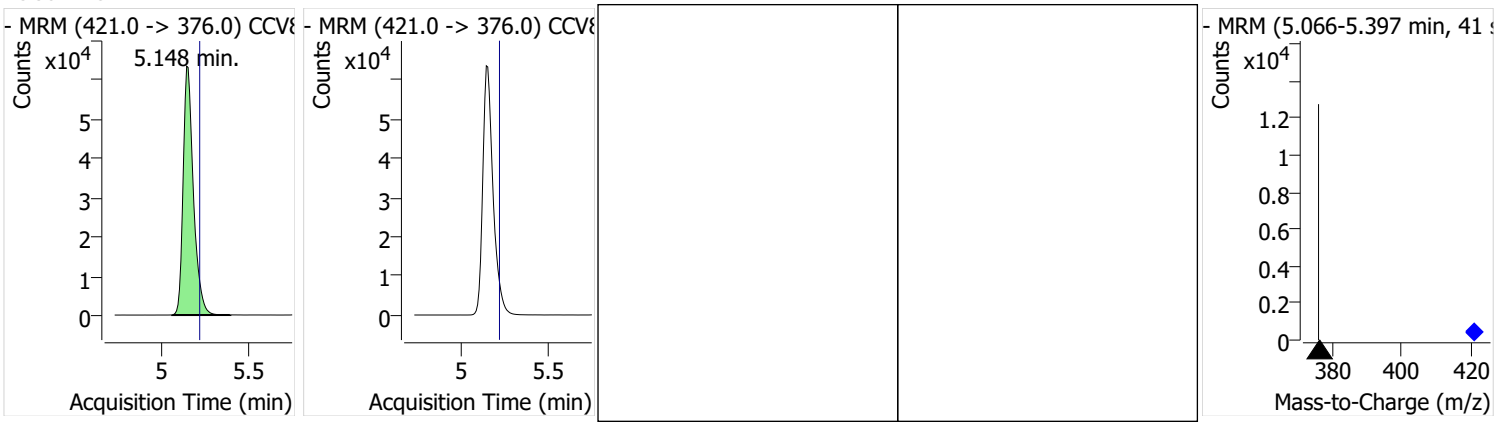
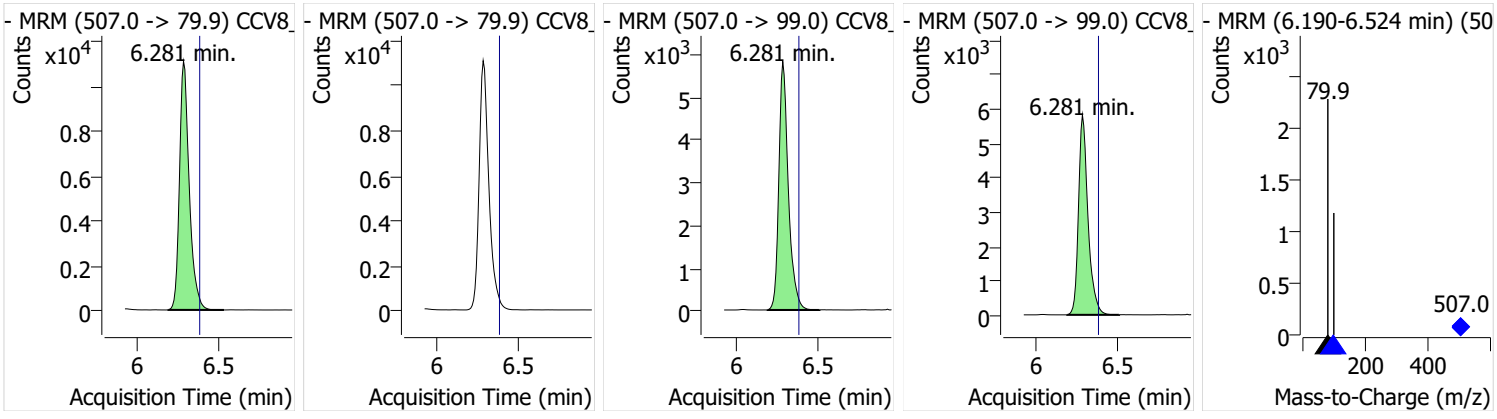


13C8-PFOS



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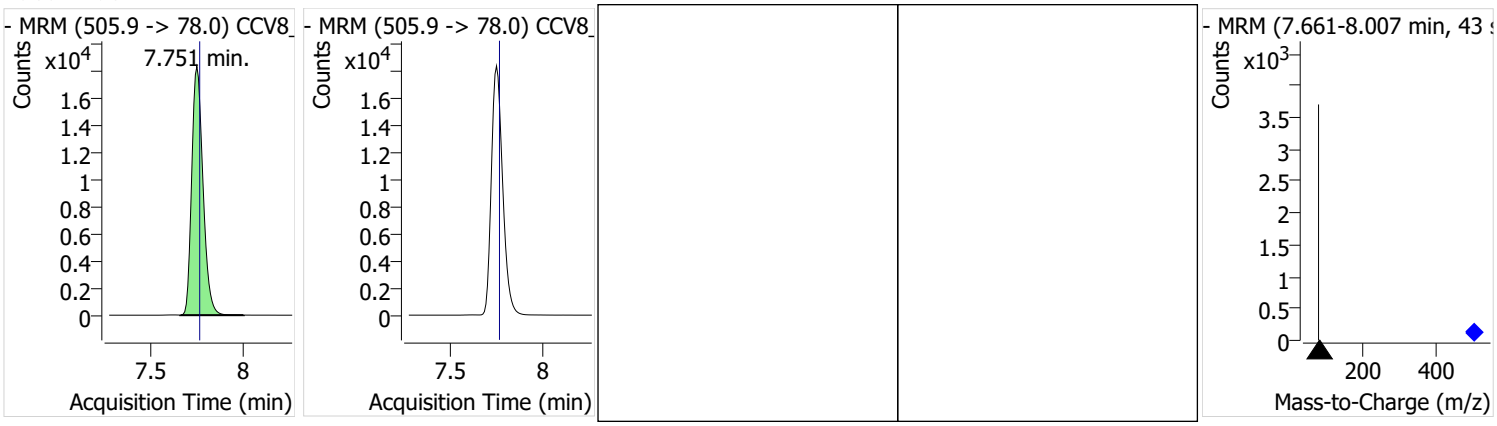
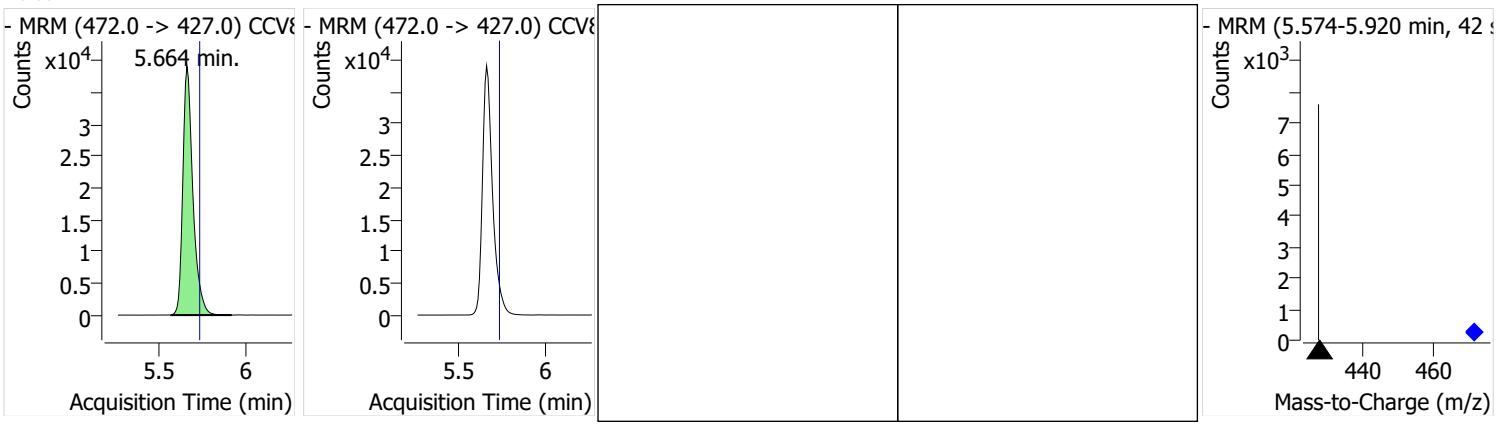
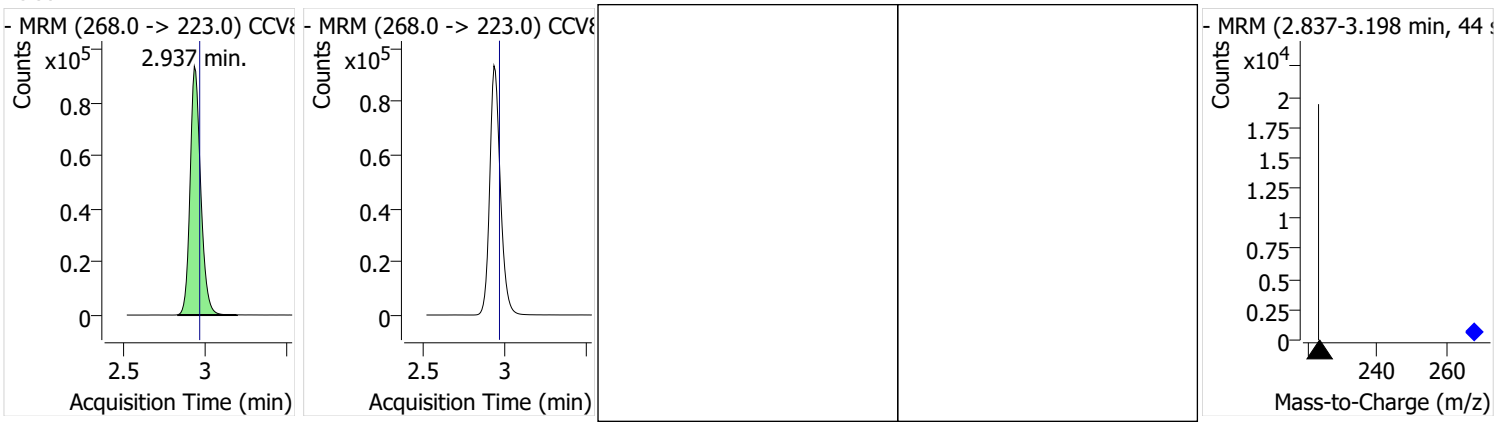


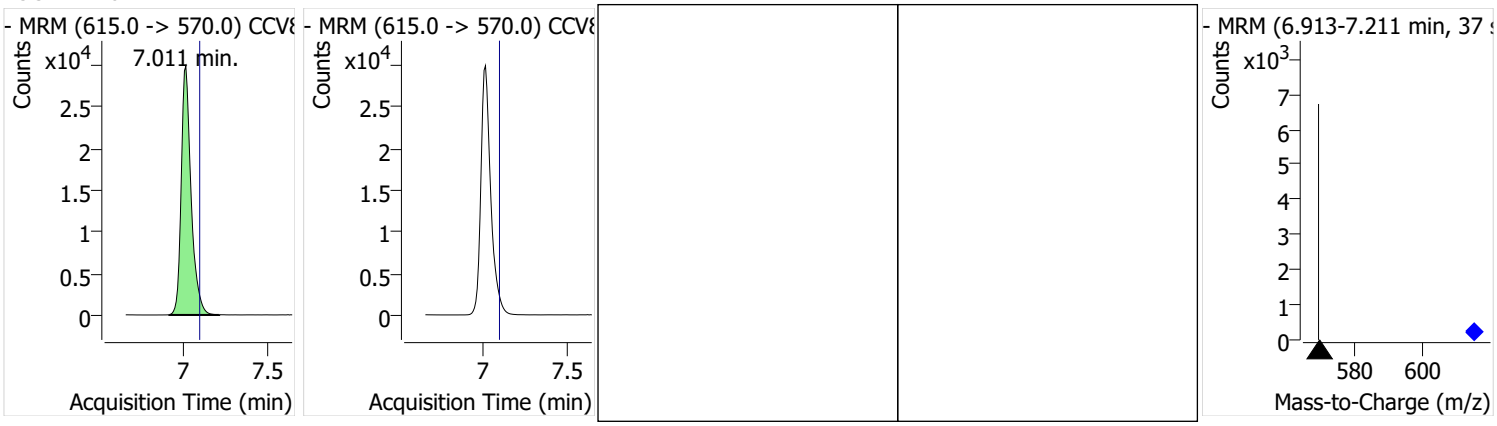
13C9-PFNA



13C5-PFPeA



13C2-PFDoA



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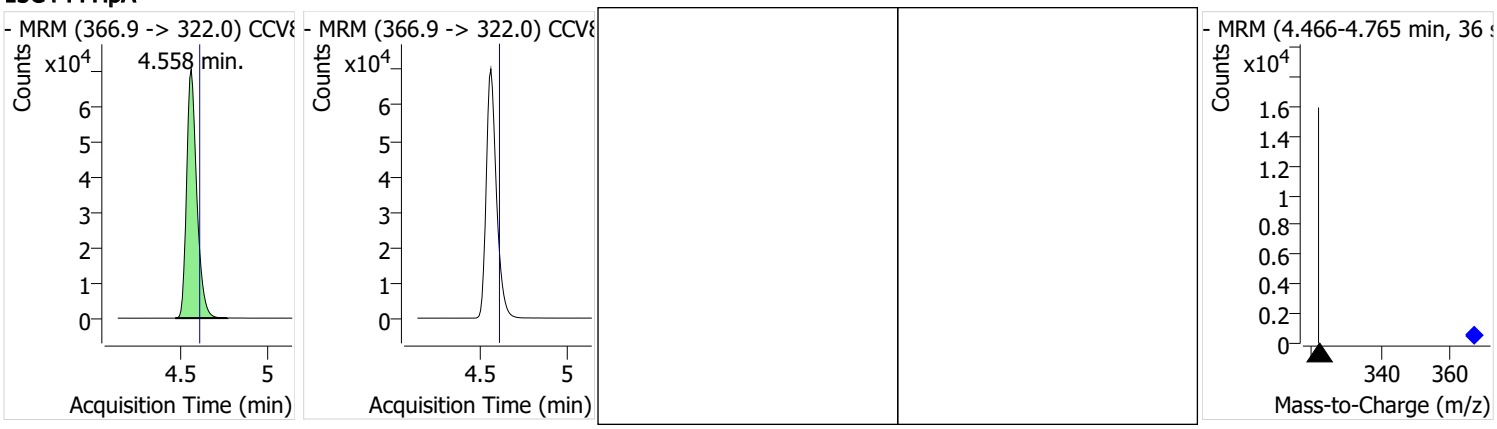

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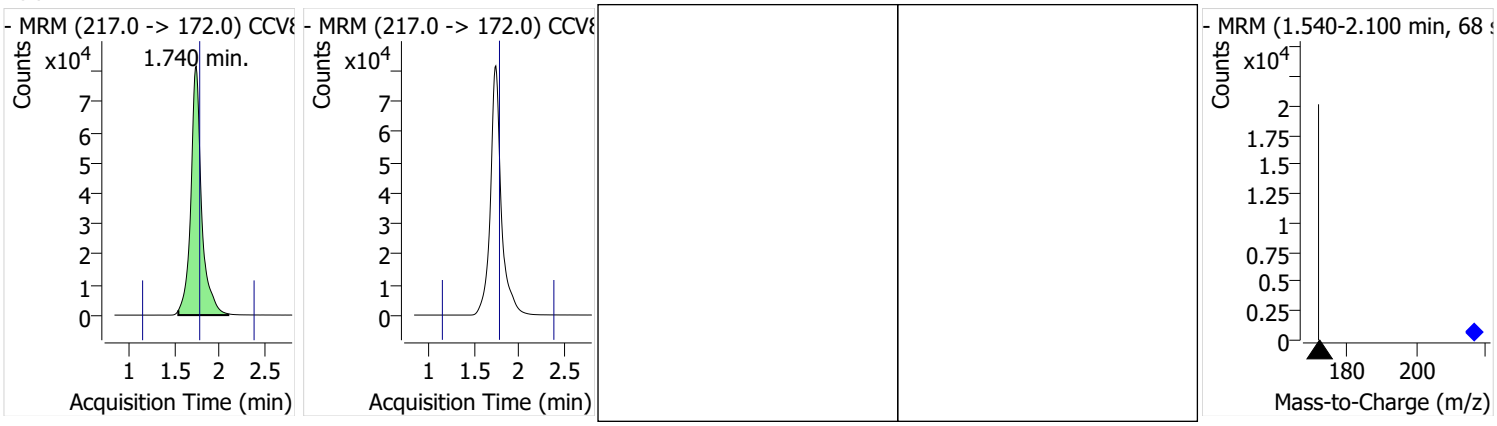
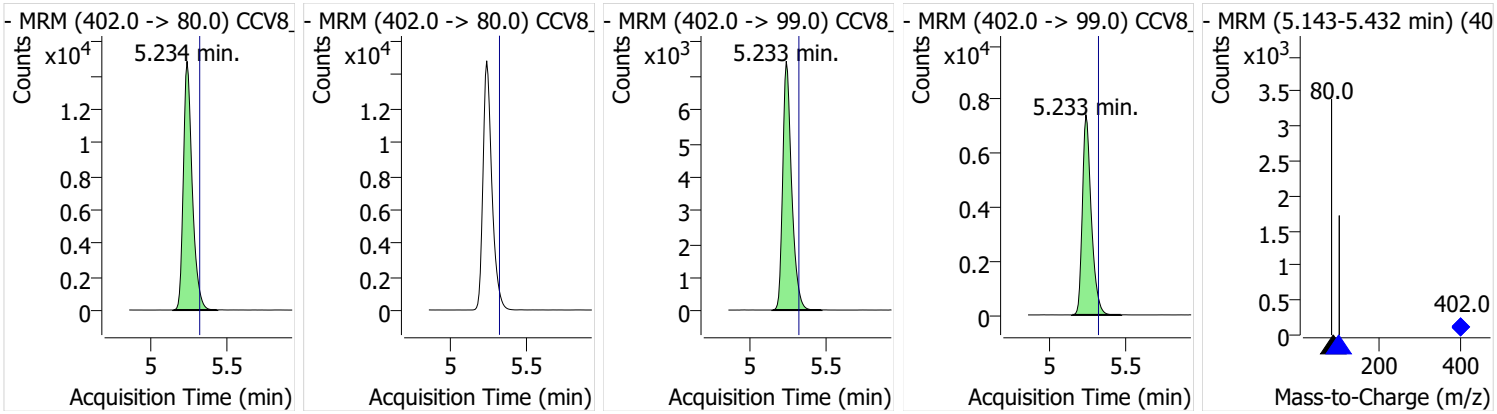
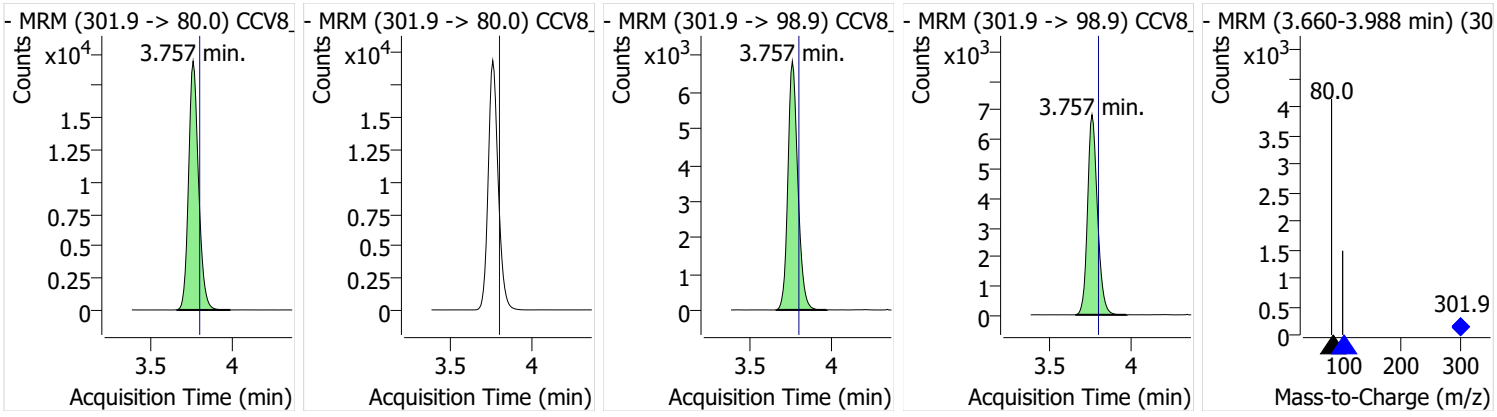


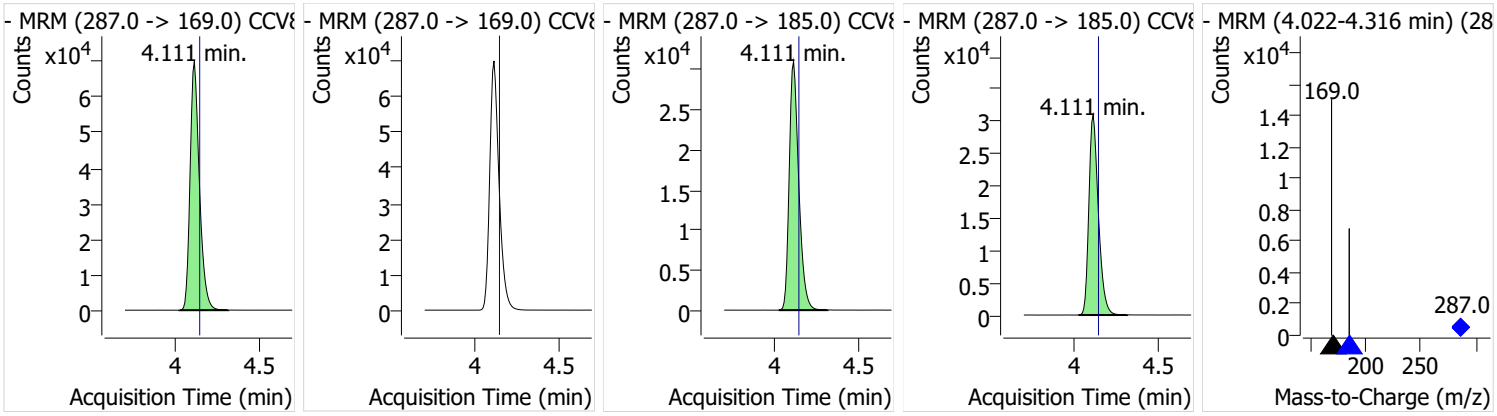
13C3-PFHxS



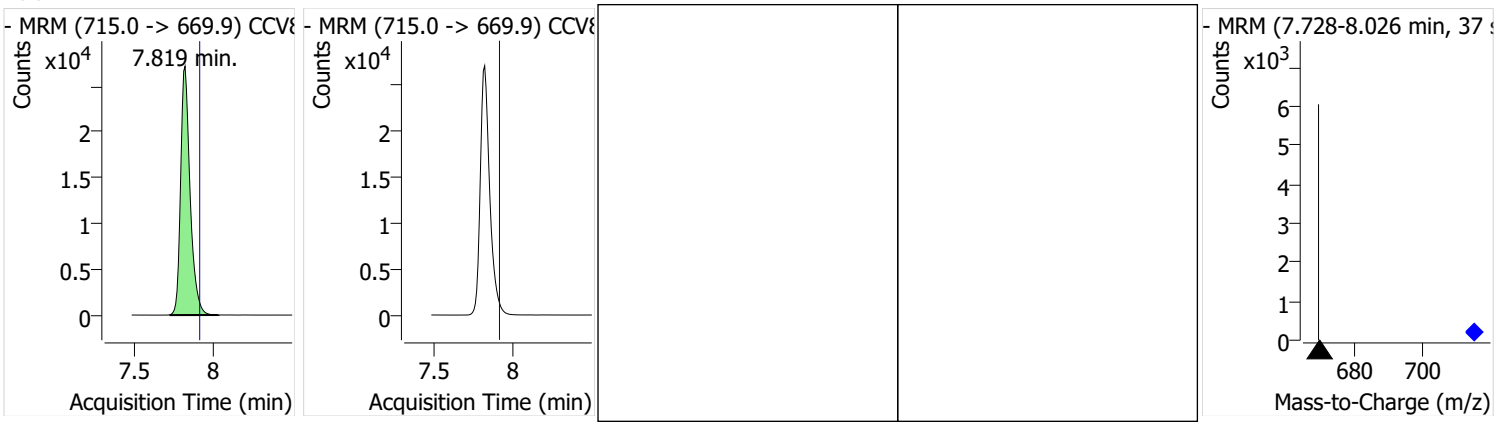
13C3-PFBS



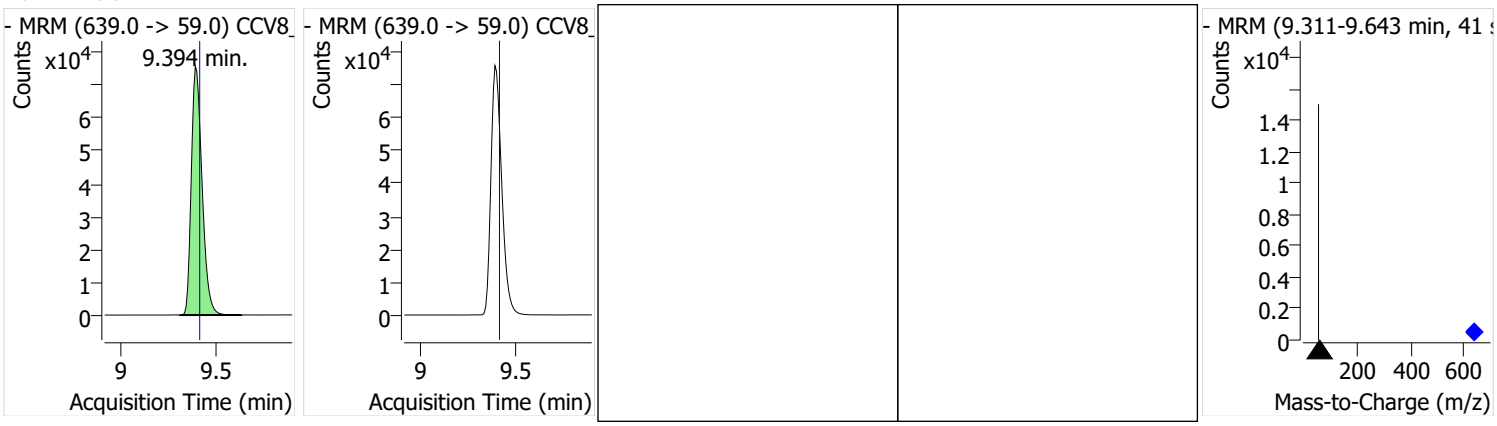
13C3-HFPODA



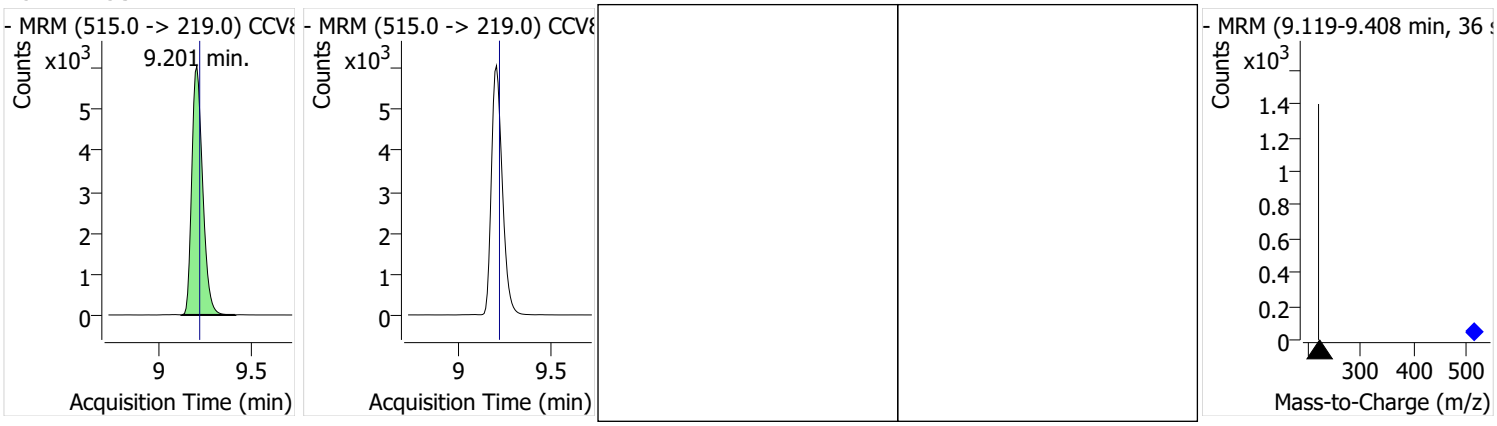
13C2-PFTeDA



D9-NEtFOSE

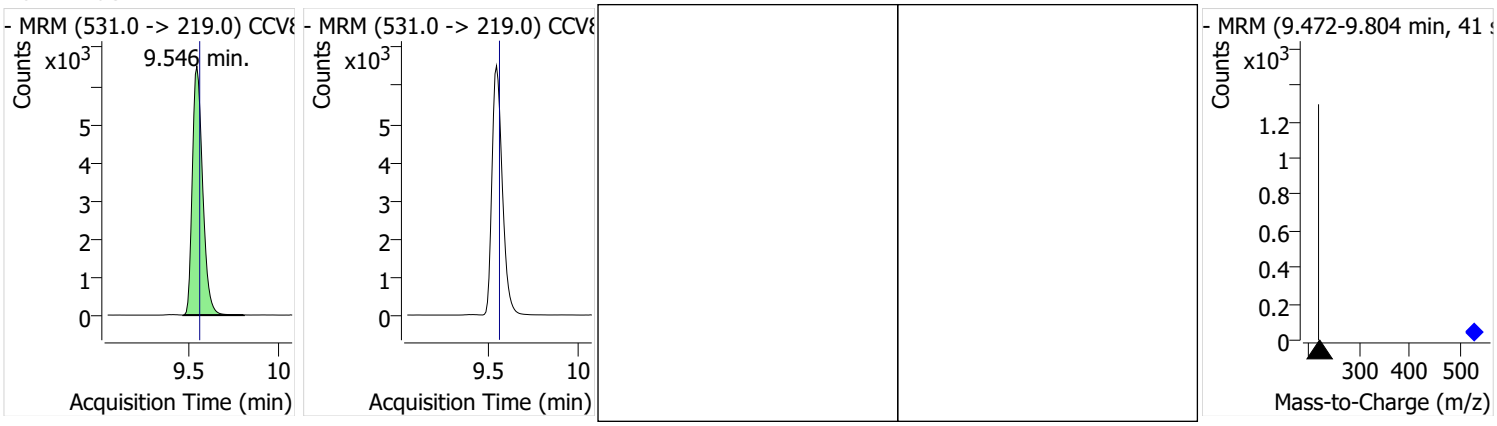


D3-NMeFOSA

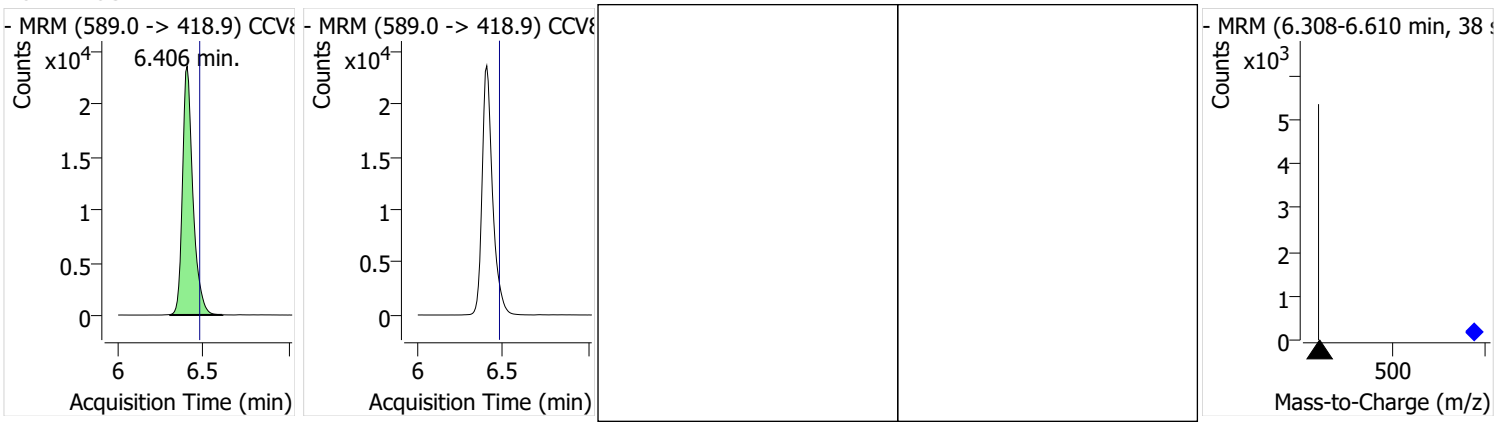


D3-NMeFOSAA

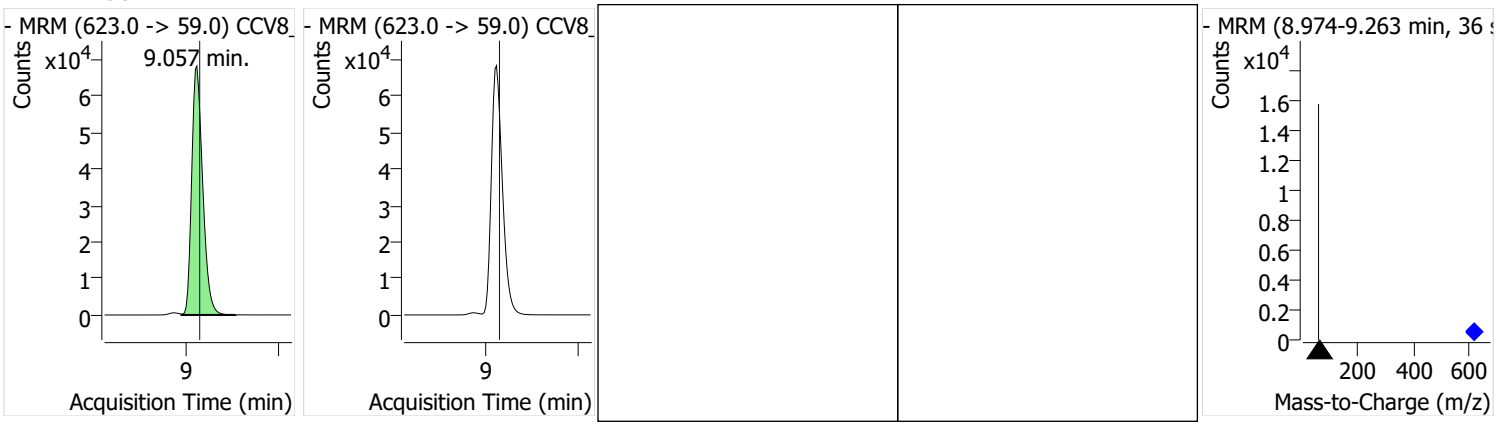
D5-NEtFOSA



D5-NEtFOSAA



D7-NMeFOSE



7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

Draft Method 1633

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	QQQ6	Calibration:	2400518
Lab File ID:	CCV9_1633_051724.d	Calibration Date:	05/08/24 00:00
Sequence:	S104823	Injection Date:	05/18/24
Lab Sample ID:	S104823-CCV4	Injection Time:	11:58

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Perfluorobutanoic acid (PFBA)	A	10.0	9.60	0.9230632	0.8859016		-4.0	30
Perfluoropentanoic acid (PFPeA)	A	5.00	4.80	1.009825	0.9695548		-4.0	30
Perfluorohexanoic acid (PFHxA)	A	2.50	2.37	1.01642	0.9634352		-5.2	30
Perfluoroheptanoic acid (PFHpA)	A	2.50	2.41	1.042023	1.003254		-3.7	30
Perfluorooctanoic acid (PFOA)	A	2.50	2.44	1.255142	1.22265		-2.6	30
Perfluorononanoic acid (PFNA)	A	2.50	2.30	1.005098	0.9243572		-8.0	30
Perfluorodecanoic acid (PFDA)	A	2.50	2.37	1.030105	0.9756669		-5.3	30
Perfluoroundecanoic acid (PFUnA)	A	2.50	2.38	1.004618	0.9550847		-4.9	30
Perfluorododecanoic acid (PFDoA)	A	2.50	2.33	1.036105	0.9648903		-6.9	30
Perfluorotridecanoic acid (PFTrDA)	A	2.50	2.36	0.8826679	0.8323114		-5.7	30
Perfluorotetradecanoic acid (PFTeDA)	A	2.50	2.42	1.005763	0.9724344		-3.3	30
Perfluorobutanesulfonic acid (PFBS)	A	2.22	2.10	1.246289	1.181472		-5.2	30
Perfluoropentanesulfonic acid (PFPeS)	A	2.35	2.41	1.295728	1.329146		2.6	30
Perfluorohexanesulfonic acid (PFHxS)	A	2.29	2.19	1.12749	1.078536		-4.3	30
Perfluoroheptanesulfonic acid (PFHpS)	A	2.38	2.39	1.319448	1.320878		0.1	30
Perfluorooctanesulfonic acid (PFOS)	A	2.32	2.16	1.299092	1.211284		-6.8	30
Perfluorononanesulfonic acid (PFNS)	A	2.41	2.36	1.017862	0.9951033		-2.2	30
Perfluorodecanesulfonic acid (PFDS)	A	2.41	2.40	0.8144733	0.8099174		-0.6	30
Perfluorododecanesulfonic acid (PFDoS)	A	2.42	2.48	0.4986549	0.5098226		2.2	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	A	9.38	9.31	2.915315	2.896056		-0.7	30

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CONTINUING CALIBRATION VERIFICATION

Draft Method 1633

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	QQQ6	Calibration:	2400518
Lab File ID:	CCV9_1633_051724.d	Calibration Date:	05/08/24 00:00
Sequence:	S104823	Injection Date:	05/18/24
Lab Sample ID:	S104823-CCV4	Injection Time:	11:58

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	A	9.50	8.77	3.387056	3.125414		-7.7	30
1H,1H,2H,2H-Perfluorodecan e sulfonic acid (8:2FTS)	A	9.62	9.79	2.548636	2.597973		1.9	30
Perfluorooctanesulfonamide (PFOSA)	A	2.50	2.43	1.103835	1.073835		-2.7	30
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	A	2.50	2.40	1.210944	1.161033		-4.1	30
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	A	2.50	2.33	1.298802	1.207949		-7.0	30
N-MeFOSAA (NMeFOSAA)	A	2.50	2.21	0.4240025	0.3750039		-11.6	30
N-EtFOSAA (NEtFOSAA)	A	2.50	2.37	1.21036	1.148493		-5.1	30
N-methylperfluorooctanesulfo namidoethanol(NMeFOSE)	A	25.0	25.8	1.079448	1.113358		3.1	30
N-ethylperfluorooctanesulfona midoethanol (NEtFOSE)	A	25.0	25.2	1.116928	1.124504		0.7	30
Hexafluoropropylene oxide dimer acid (HFPO-DA)	A	10.0	9.27	0.9202454	0.8533623		-7.3	30
4,8-Dioxa-3H-perfluorononano ic acid (ADONA)	A	9.44	8.94	7.434924	7.036871		-5.4	30
9Cl-PF3ONS (F53B Minor)	A	9.38	9.62	3.288392	3.386215		3.0	30
11Cl-PF3OUdS (F53B Major)	A	9.44	9.90	2.952986	3.095461		4.8	30
3-Perfluoropropyl propanoic acid (FPrPA)(3:3FTCA)	A	25.0	21.2	3.553835E-02	3.012592E-02		-15.2	30
2H,2H,3H,3H-Perfluorooctano ic acid(FPePA)(5:3FTCA)	A	125	110	9.961691E-02	8.783443E-02		-11.8	30
3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTCA)	A	125	115	0.117316	0.107738		-8.2	30
Perfluoro(2-ethoxyethane)sulf onic acid (PFEESA)	A	4.45	4.59	1.259028	1.298819		3.2	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	A	5.00	4.62	0.1094335	0.1012189		-7.5	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	A	5.00	4.71	0.6884095	0.6480015		-5.9	30
Nonafluoro-3,6-dioxaheptanoi c acid (NFDHA)	A	5.00	5.16	8.451406E-02	8.722105E-02		3.2	30
13C4-PFBA	A	10.0	10.3	1.085569	1.117191		2.9	30

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

Draft Method 1633

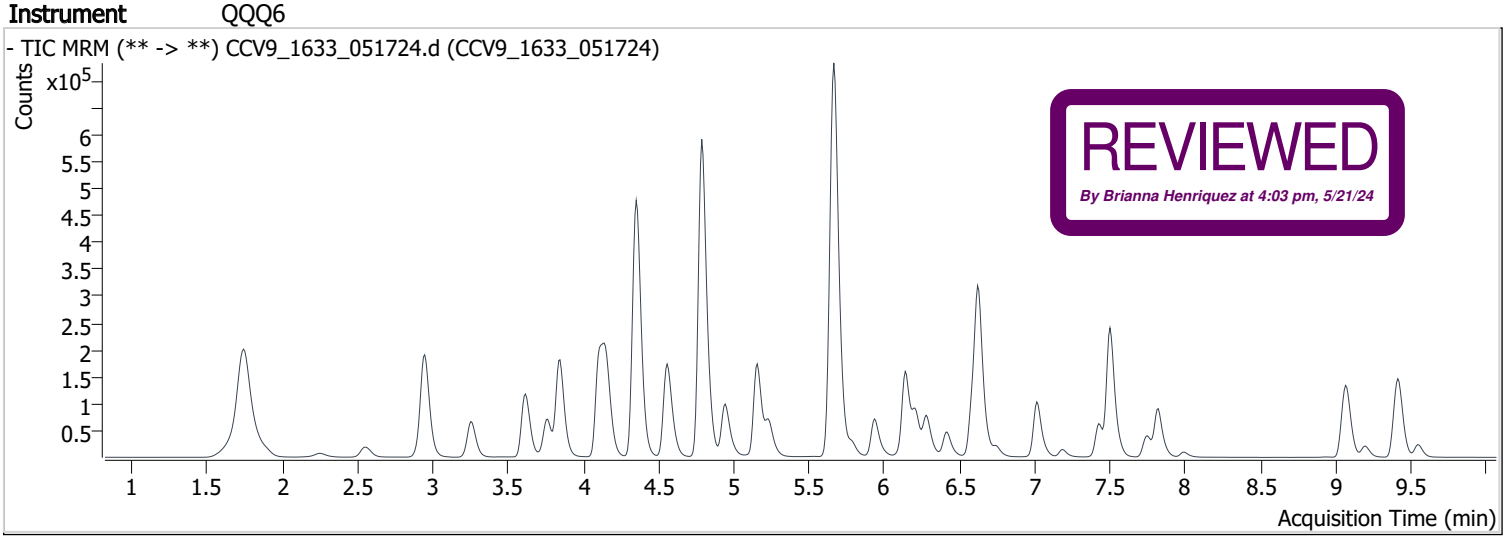
Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	QQQ6	Calibration:	2400518
Lab File ID:	CCV9_1633_051724.d	Calibration Date:	05/08/24 00:00
Sequence:	S104823	Injection Date:	05/18/24
Lab Sample ID:	S104823-CCV4	Injection Time:	11:58

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
13C5-PFPeA	A	5.00	5.17	0.9232685	0.9541843		3.3	30	
13C5-PFHxA	A	2.50	2.56	1.030198	1.055316		2.4	30	
13C4-PFHpA	A	2.50	2.77	1.152357	1.278189		10.9	30	
13C8-PFOA	A	2.50	2.58	6.853857	7.083836		3.4	30	
13C9-PFNA	A	1.25	1.32	0.8524299	0.9027518		5.9	30	
13C6-PFDA	A	1.25	1.32	0.9862821	1.044609		5.9	30	
13C7-PFUnA	A	1.25	1.43	0.7984683	0.9114174		14.1	30	
13C2-PFDoA	A	1.25	1.42	0.8241087	0.9354635		13.5	30	
13C2-PFTeDA	A	1.25	1.41	0.7095946	0.8025915		13.1	30	
13C3-PFBS	A	2.50	2.76	1.35117	1.491042		10.4	30	
13C3-PFHxS	A	2.50	2.54	1.020951	1.035846		1.5	30	
13C8-PFOS	A	2.50	2.51	0.8987725	0.903351		0.5	30	
13C2-4:2FTS	A	5.00	6.25	0.2991766	0.3737285		24.9	30	
13C2-6:2FTS	A	5.00	6.88	0.2021627	0.2783297		37.7	30	*
13C2-8:2FTS	A	5.00	6.78	0.1643288	0.2228819		35.6	30	*
13C8-PFOSA	A	2.50	2.43	1.580736	1.53558		-2.9	30	
D3-NMeFOSA	A	2.50	2.38	0.5070093	0.483076		-4.7	30	
D5-NEtFOSA	A	2.50	2.44	0.5288652	0.5166293		-2.3	30	
D3-NMeFOSAA	A	5.00	6.37	1.619524	2.062684		27.4	30	
D5-NEtFOSAA	A	5.00	6.28	0.819503	1.029492		25.6	30	
D7-NMeFOSE	A	25.0	22.4	0.6143202	0.5493825		-10.6	30	
D9-NEtFOSE	A	25.0	23.0	0.6573456	0.6040328		-8.1	30	
13C3-HFPO-DA	A	10.0	10.2	0.2881606	0.2940758		2.1	30	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Batch Path	R:\Data\MAY2024\051724\QuantResults\1633_CCVS_CORRECTED.batch.bin		
Analysis Time	5/20/2024 3:06 PM	**Last Calib Update**	5/9/2024 9:16 AM
Acq. Time	5/18/2024 11:58 AM	**Data File**	CCV9_1633_051724.d
Sample Type	CC	**Sample Name**	CCV9_1633_051724
Dilution	1	**Acq. Method**	1633_ACQUISITION_01.m
Sample Comment	E#24E0158	**Processing method**	1633_050824.m
Instrument	QQQ6		



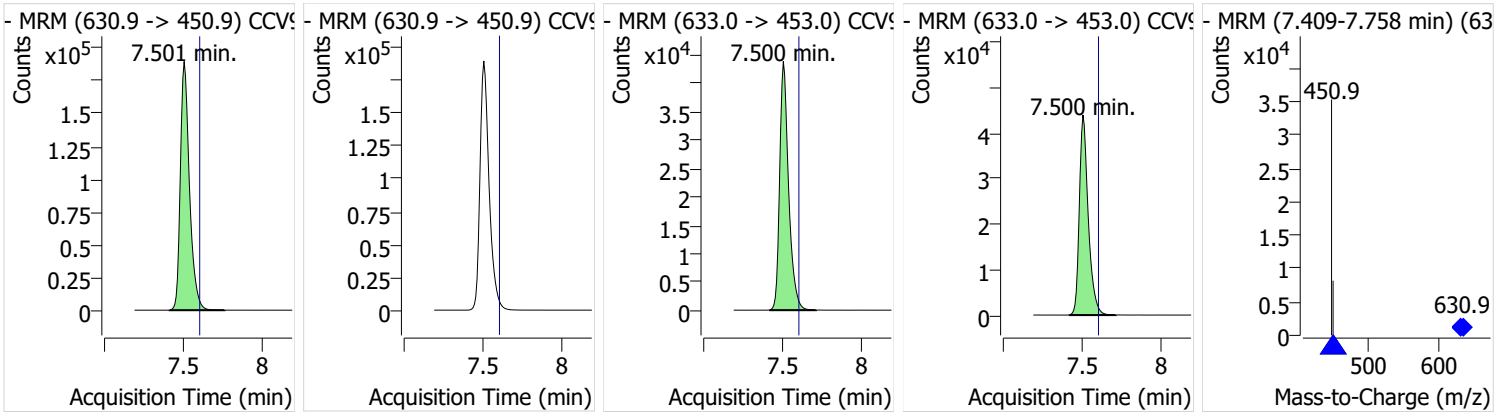
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
11Cl-PF3OUdS	7.501	762562	96629.82		13C3-HFPODA - ISTD	4.111	260962	9.9019	ng/ml			
633.0 -> 453.0			23309.66	22.6								
3:3FTCA	2.549	63772	27227.38		13C5-PFPeA - ISTD	2.945	423371	21.1925	ng/ml			
241.0 -> 117.0			2395.99	48.1								
4:2FTS	3.614	229195	71129.42		13C2-4:2FTS - ISTD	3.614	42186	9.3073	ng/ml			
327.0 -> 80.9			19210.83	38.1								
5:3FTCA	4.351	1028196	91261.38		13C5-PFHxA - ISTD	3.844	234121	110.2152	ng/ml			
341.0 -> 217.0			73085.92	90.5								
6:2FTS	4.942	186565	25868.46		13C2-6:2FTS - ISTD	4.941	31417	8.7661	ng/ml			
427.0 -> 80.9			6811.41	32.9								
7:3FTCA	5.666	1261189	42163.24		13C5-PFHxA - ISTD	3.844	234121	114.7946	ng/ml			
441.0 -> 317.0			18465.40	89.8								
8:2FTS	5.935	125754	120987.89		13C2-8:2FTS - ISTD	5.934	25158	9.7914	ng/ml			
527.0 -> 81.0			9529.18	41.0								
9Cl-PF3ONS	6.630	828887	39008.69		13C3-HFPODA - ISTD	4.111	260962	9.6247	ng/ml			
533.0 -> 353.0			6539.44	31.6								
ADONA	4.789	1733522	36769.03		13C3-HFPODA - ISTD	4.111	260962	8.9404	ng/ml			
377.0 -> 85.1			39320.21	35.2								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA	4.112	222695	31390.98		13C3-HFPODA - ISTD	4.111	260962	9.2732	ng/ml			
285.0 -> 184.9			8319.30	55.8								
NEtFOSA	9.556	30852	60758.63		D5-NEtFOSA - ISTD	9.546	25541	2.3251	ng/ml			
526.0 -> 219.0			29837.70	96.5								
NEtFOSAA	6.415	58453	5363.30		D5-NEtFOSAA - ISTD	6.406	101791	2.3722	ng/ml	✔	3	ALB 5/20/24
584.0 -> 526.0			2097.72	66.7								
NEtFOSE	9.420	335796	44785.47		D9-NEtFOSE - ISTD	9.394	298617	25.1696	ng/ml			
NFDHA	3.758	40841	10148.09		13C5-PFHxA - ISTD	3.844	234121	5.1601	ng/ml			
295.0 -> 85.0			4113.52	34.6								
NMeFOSA	9.203	27728	28514.52		D3-NMeFOSA - ISTD	9.201	23882	2.3970	ng/ml			
512.0 -> 219.0			31457.29	93.0								
NMeFOSAA	6.212	38240	6136.10		D3-NMeFOSAA - ISTD	6.211	203947	2.2111	ng/ml	✔	3	ALB 5/20/24
570.0 -> 418.9			8145.35	72.8								
NMeFOSE	9.074	302388	111495.76		D7-NMeFOSE - ISTD	9.057	271600	25.7853	ng/ml			
PFBA	1.746	607556	13227.30		13C4-PFBA - ISTD	1.740	685805	9.5974	ng/ml			
PFBS	3.766	88289	21103.46		13C3-PFBS - ISTD	3.766	84153	2.1018	ng/ml			
298.9 -> 98.8			7394.45	39.6								
PFDA	6.140	278901	5765.73		13C6-PFDA - ISTD	6.140	142929	2.3679	ng/ml			
513.0 -> 219.0			19763.61	16.5								
PFDoA	7.012	247002	16481.53		13C2-PFDoA - ISTD	7.011	127995	2.3282	ng/ml			
613.0 -> 319.0			13530.08	13.0								
PFDoS	7.987	22040	12877.93		13C8-PFOS - ISTD	6.289	44659	2.4764	ng/ml			
698.9 -> 99.0			7105.37	62.0								
PFDS	7.189	34868	12613.21		13C8-PFOS - ISTD	6.289	44659	2.3964	ng/ml			
599.0 -> 98.8			6658.30	57.4								
PFEESA	4.157	541265	41270.57		13C5-PFHxA - ISTD	3.844	234121	4.5936	ng/ml			
315.0 -> 83.0			9356.27	7.2								
PFHpA	4.558	284488	10010.10		13C4-PFHpA - ISTD	4.558	283565	2.4070	ng/ml			
362.9 -> 169.0			9361.42	17.1								
PFHpS	5.791	56158	4410.94		13C8-PFOS - ISTD	6.289	44659	2.3856	ng/ml			
449.0 -> 98.8			5212.88	50.8								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFHxA	3.847	225561	6834.73		13C5-PFHxA - ISTD	3.844	234121	2.3697	ng/ml			
313.0 -> 118.9			1605.96	3.4								
PFHxS	5.235	57757	6974.34		13C3-PFHxS - ISTD	5.234	58462	2.1884	ng/ml	✔	3	ALB 5/20/24
398.9 -> 99.0			9063.26	45.6								
PFMBA	3.255	274345	133869.25		13C5-PFPeA - ISTD	2.945	423371	4.7065	ng/ml			
PFMPA	2.250	42853	7128.62		13C5-PFPeA - ISTD	2.945	423371	4.6247	ng/ml			
PFNA	5.673	296528	5665.63		13C9-PFNA - ISTD	5.672	160397	2.2992	ng/ml			
463.0 -> 219.0			15035.78	20.7								
PFNS	6.752	42841	8919.51		13C8-PFOS - ISTD	6.289	44659	2.3564	ng/ml			
549.0 -> 98.8			9148.96	52.8								
PFOA	5.157	316729	2936.51		13C8-PFOA - ISTD	5.156	259051	2.4353	ng/ml			
413.0 -> 169.0			5885.90	23.7								
PFOS	6.282	50200	8069.18		13C8-PFOS - ISTD	6.289	44659	2.1627	ng/ml	✔	3	ALB 5/20/24
499.0 -> 99.0			4883.73	48.0								
PFOSA	7.753	81520	477288.38		13C8-PFOSA - ISTD	7.751	75915	2.4321	ng/ml			
497.9 -> 478.0			1951.48	3.0								
PFPeA	2.946	410481	21762.48		13C5-PFPeA - ISTD	2.945	423371	4.8006	ng/ml			
263.0 -> 69.0			588.45	0.3								
PFPeS	4.576	73042	7721.52		13C3-PFHxS - ISTD	5.234	58462	2.4110	ng/ml			
349.0 -> 98.9			4339.98	46.3								
PFTeDA	7.820	213575	13096.75		13C2-PFTeDA - ISTD	7.819	109815	2.4172	ng/ml			
713.0 -> 168.9			6654.72	7.8								
PFTrDA	7.423	213063	11832.18		13C2-PFDoA - ISTD	7.011	127995	2.3574	ng/ml			
663.0 -> 168.9			6726.76	13.4								
PFUnA	6.587	238207	7419.70		13C7-PFUnA - ISTD	6.586	124705	2.3767	ng/ml			
563.0 -> 269.1			5922.95	17.6								
TDCA	6.282	37960	4089.57					-	ng/ml			
499.0 -> 99.0			3150.50	*55.3								
13C2-8:2FTS	5.934	25158	6751.30		18O2-PFHxS	5.241	56439	6.7816	ng/ml			
529.0 -> 509.0			431499.51	317.1								
13C2-4:2FTS	3.614	42186	8769.05		18O2-PFHxS	5.241	56439	6.2460	ng/ml			

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
329.0 -> 309.0			26828.54	279.6								
13C2-6:2FTS	4.941	31417	7729.89		18O2-PFHxS	5.241	56439	6.8838	ng/ml			
429.0 -> 409.0			19733.04	363.1								
13C5-PFHxA	3.844	234121	30141.88		13C2-PFHxA	3.845	221850	2.5610	ng/ml			
318.0 -> 120.0			412.95	1.9								
13C6-PFDA	6.140	142929	9413.75		13C2-PFDA	6.140	136825	1.3239	ng/ml			
13C7-PFUnA	6.586	124705	26873.68		13C2-PFDA	6.140	136825	1.4268	ng/ml			
13C8-PFOA	5.156	259051	44719.06		13C4-PFOA	5.157	36569	2.5839	ng/ml			
13C8-PFOS	6.289	44659	3514.70		13C4-PFOS	6.281	49437	2.5127	ng/ml			
507.0 -> 99.0			4808.77	52.8								
13C8-PFOSA	7.751	75915	80801.04		13C4-PFOS	6.281	49437	2.4286	ng/ml			
13C9-PFNA	5.672	160397	20611.12		13C5-PFNA	5.673	177675	1.3238	ng/ml			
13C5-PFPeA	2.945	423371	17181.09		13C2-PFHxA	3.845	221850	5.1674	ng/ml			
13C2-PFDoA	7.011	127995	12566.91		13C2-PFDA	6.140	136825	1.4189	ng/ml			
13C4-PFHpA	4.558	283565	30679.47		13C2-PFHxA	3.845	221850	2.7730	ng/ml			
13C4-PFBA	1.740	685805	118586.42		13C3-PFBA	1.743	306933	10.2913	ng/ml			
13C3-PFHxS	5.234	58462	7335.08		18O2-PFHxS	5.241	56439	2.5365	ng/ml			
402.0 -> 99.0			41616.23	52.1								
13C3-PFBS	3.766	84153	28998.04		18O2-PFHxS	5.241	56439	2.7588	ng/ml			
301.9 -> 98.9			6931.66	34.8								
13C3-HFPODA	4.111	260962	33552.99		13C2-PFHxA	3.845	221850	10.2053	ng/ml			
287.0 -> 185.0			19643.26	46.8								
13C2-PFTeDA	7.819	109815	19821.77		13C2-PFDA	6.140	136825	1.4138	ng/ml			
D9-NEtFOSE	9.394	298617	56244.08		13C4-PFOS	6.281	49437	22.9724	ng/ml			
D3-NMeFOSA	9.201	23882	14983.16		13C4-PFOS	6.281	49437	2.3820	ng/ml			
D3-NMeFOSAA	6.211	203947	78969.28		13C4-PFOS	6.281	49437	6.3682	ng/ml			
D5-NEtFOSA	9.546	25541	10720.75		13C4-PFOS	6.281	49437	2.4422	ng/ml			
D5-NEtFOSAA	6.406	101791	9393.73		13C4-PFOS	6.281	49437	6.2812	ng/ml			
D7-NMeFOSE	9.057	271600	68548.50		13C4-PFOS	6.281	49437	22.3573	ng/ml			

11Cl-PF3OUdS



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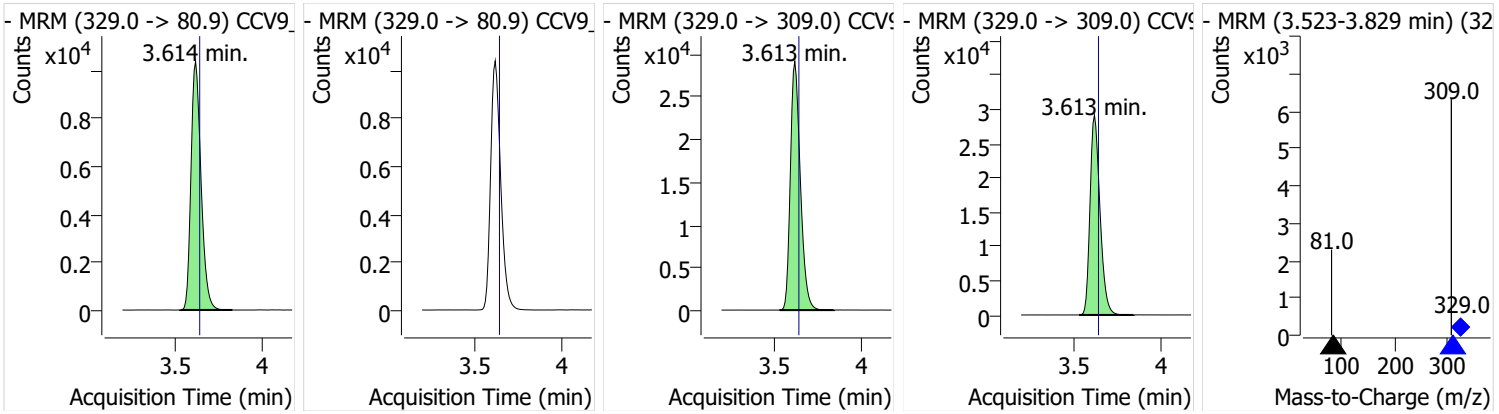

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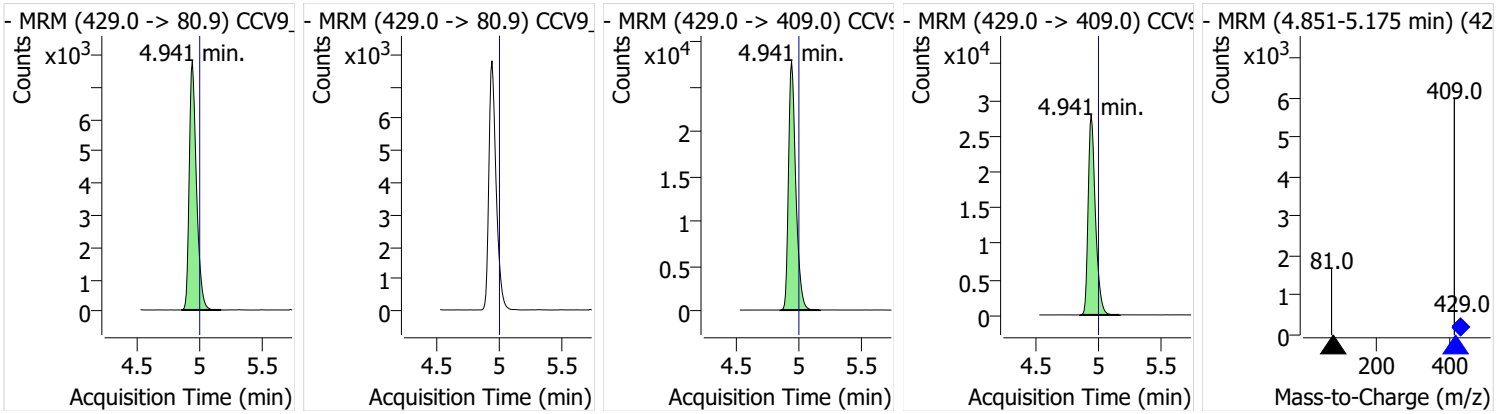

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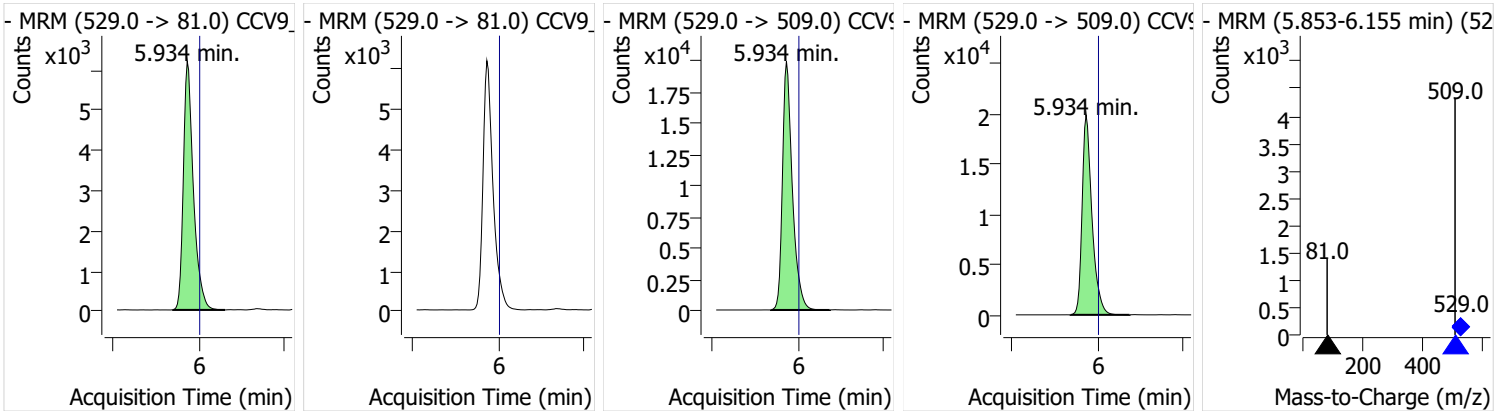
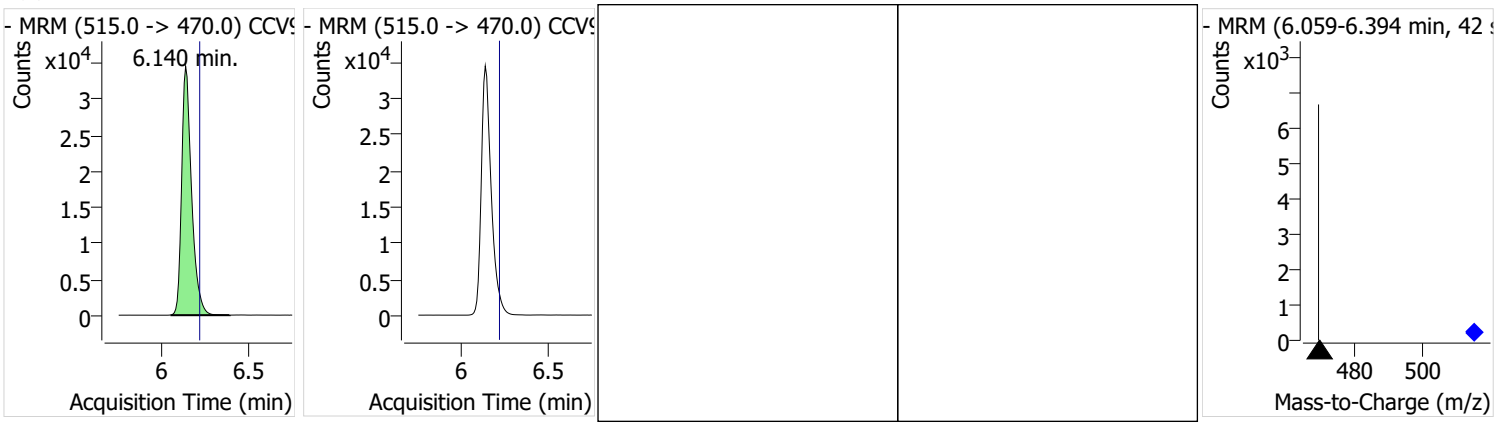


13C2-PFDA



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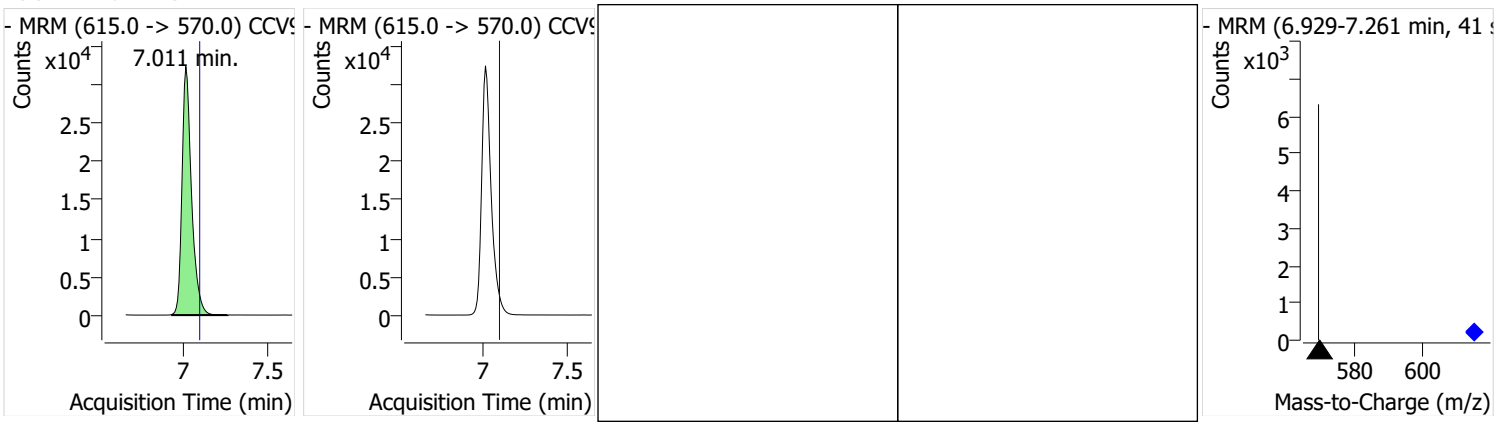
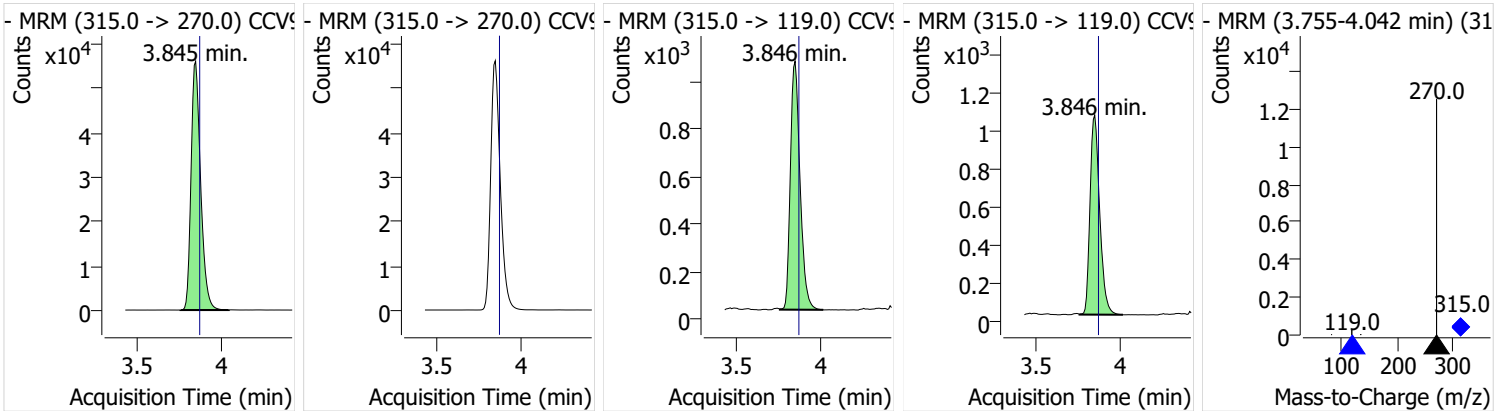
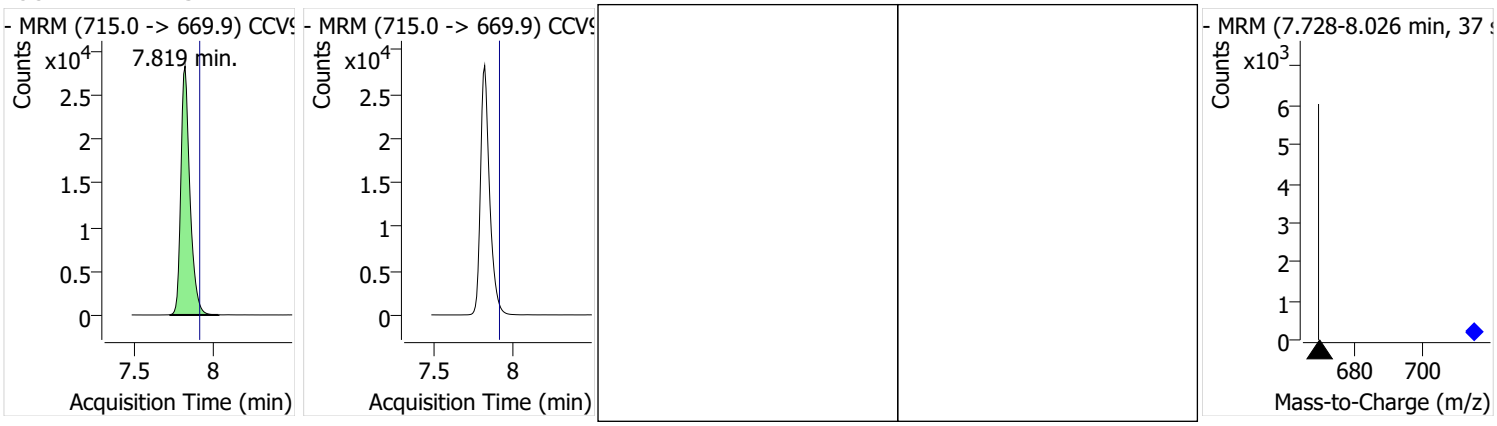


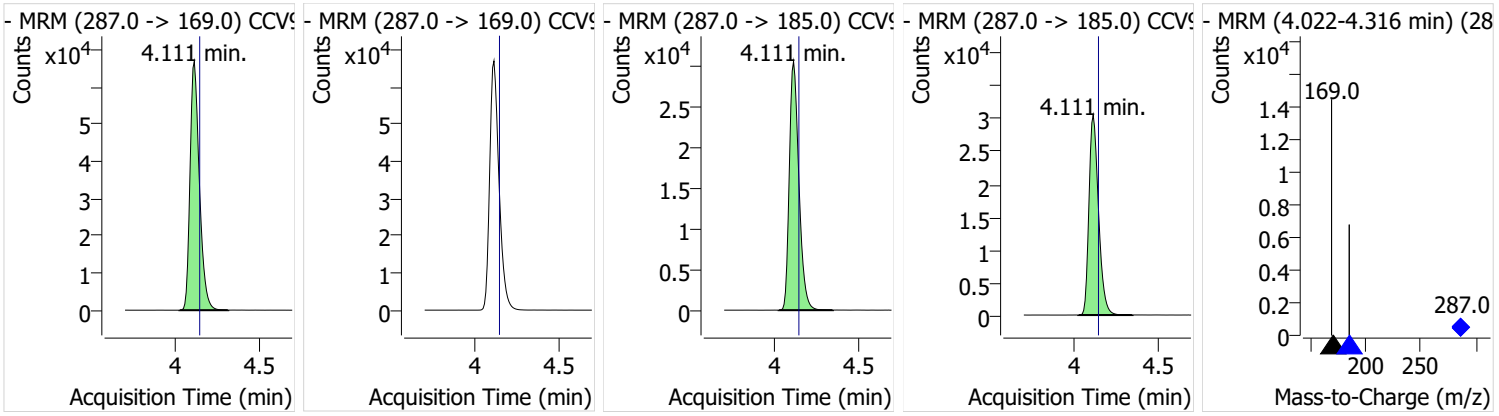
13C2-PFHxA



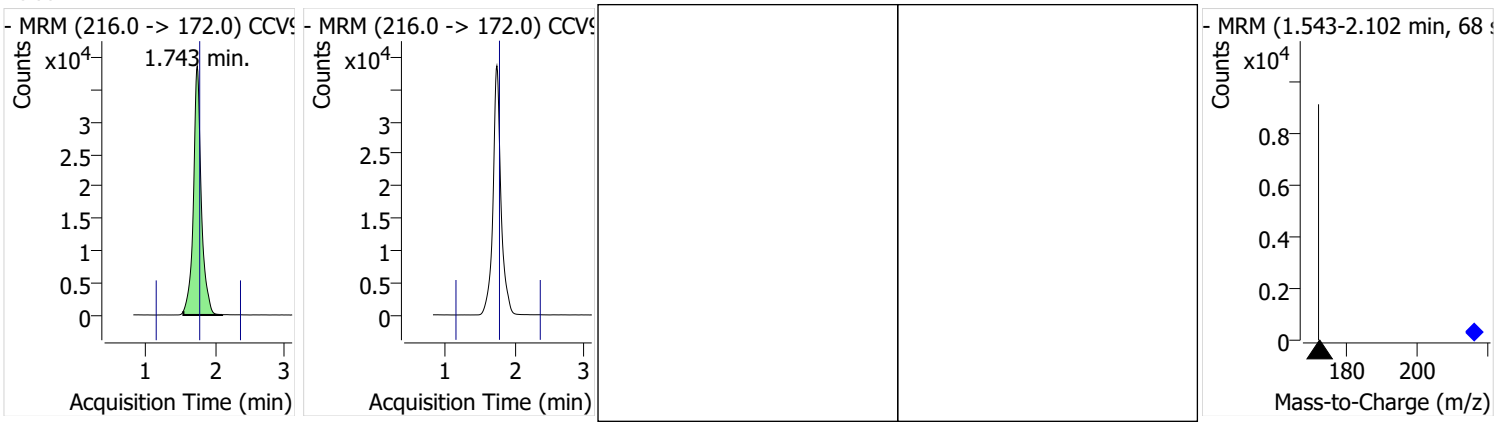
13C2-PFTeDA - ISTD



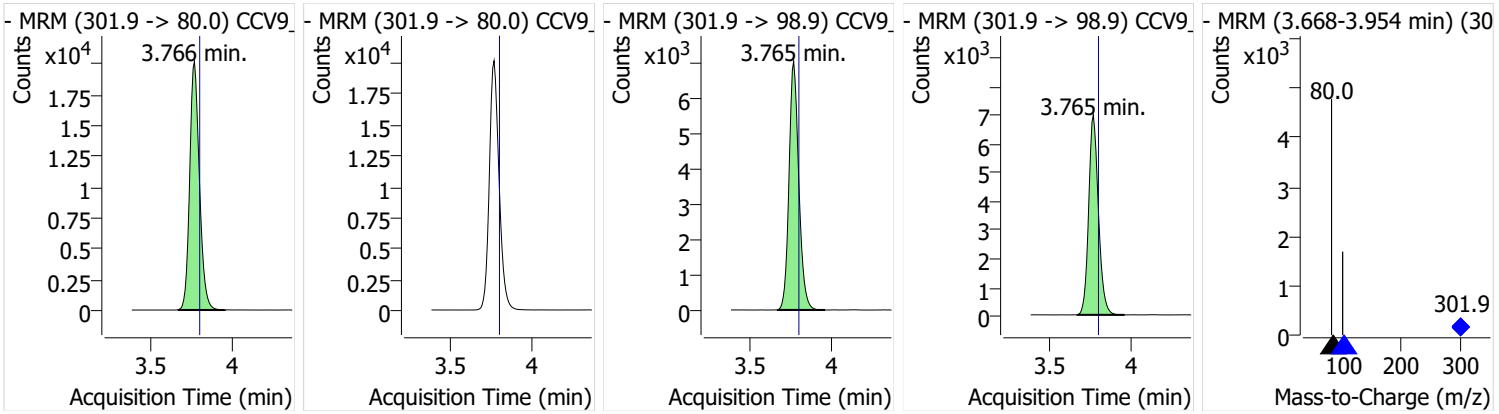
13C3-HFPODA - ISTD



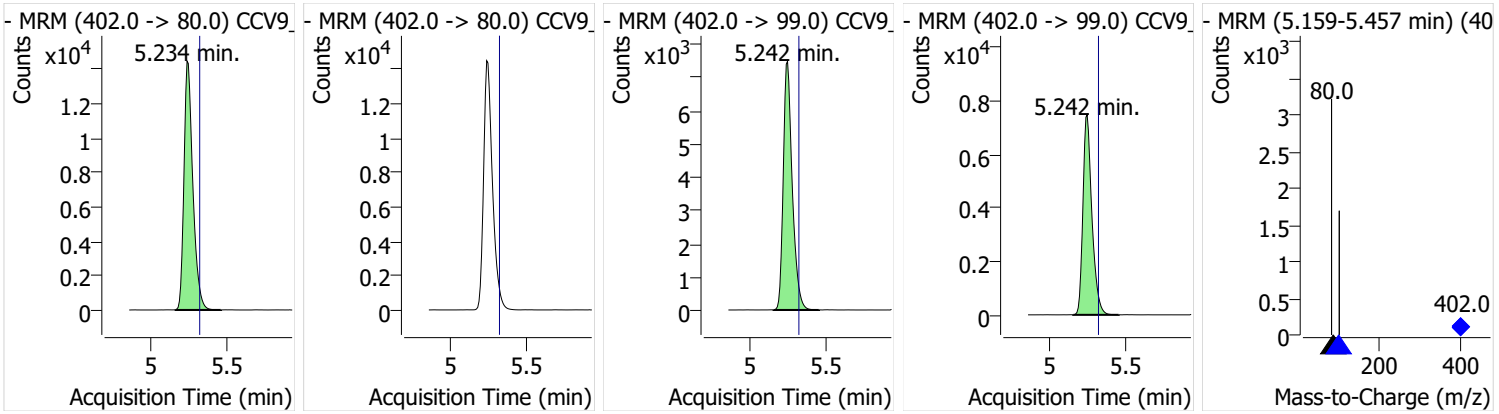
13C3-PFBA



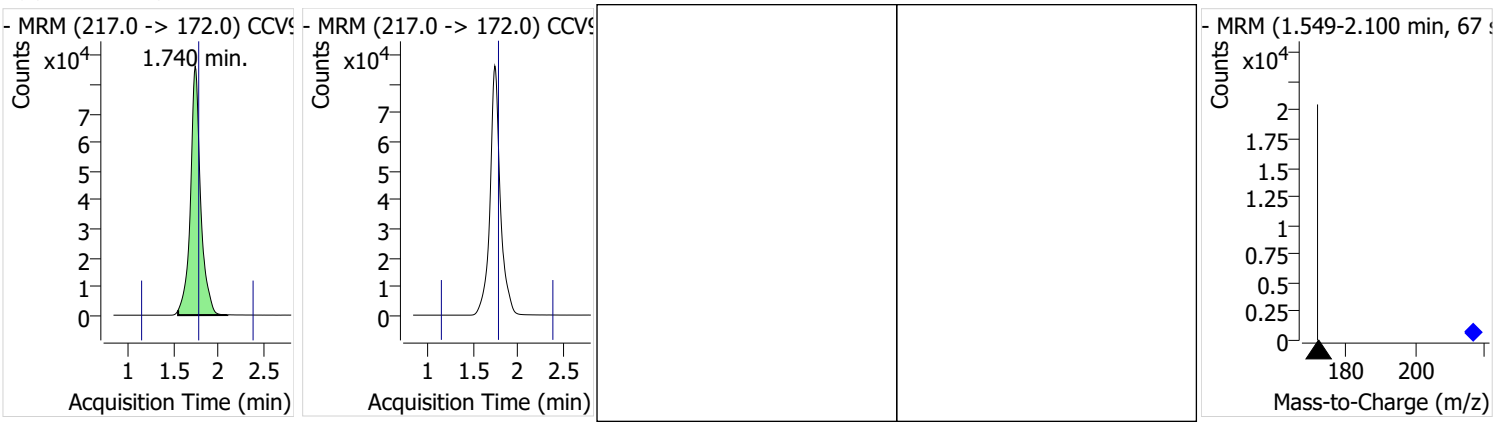
13C3-PFBS - ISTD



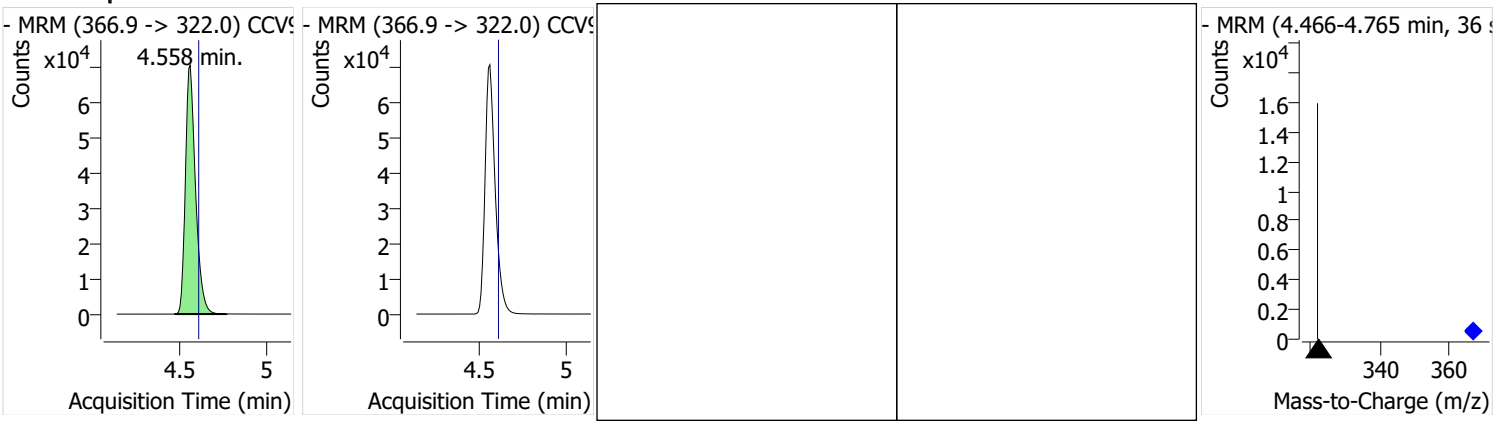
13C3-PFHxS - ISTD



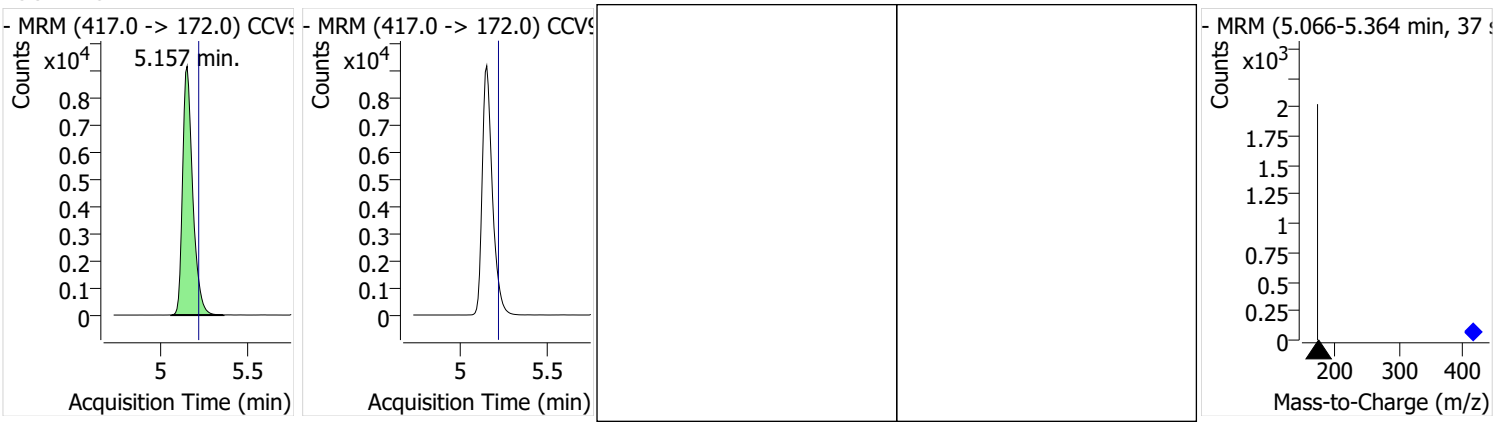
13C4-PFBA - ISTD



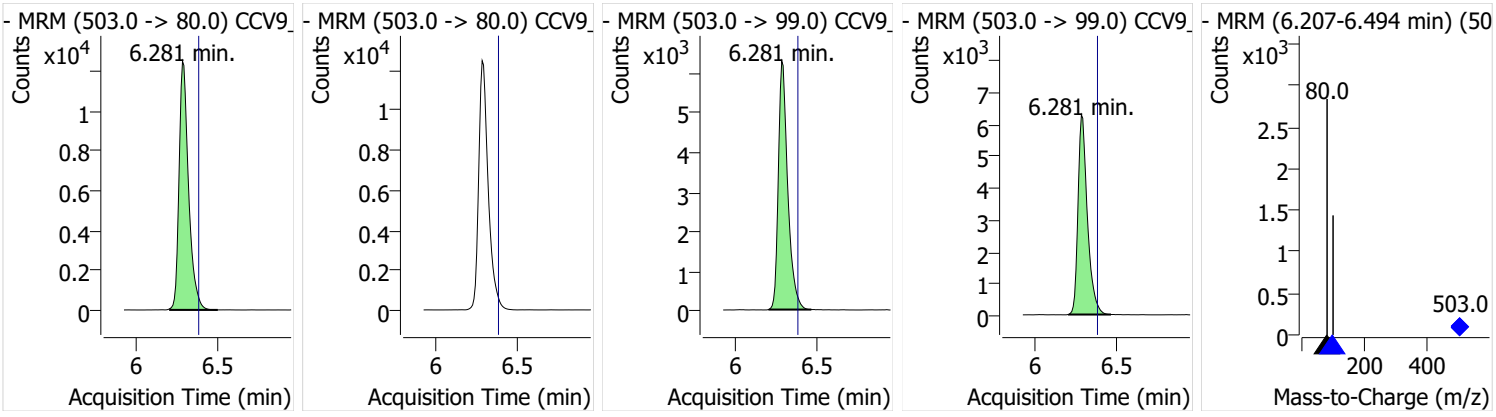
13C4-PFHpA - ISTD



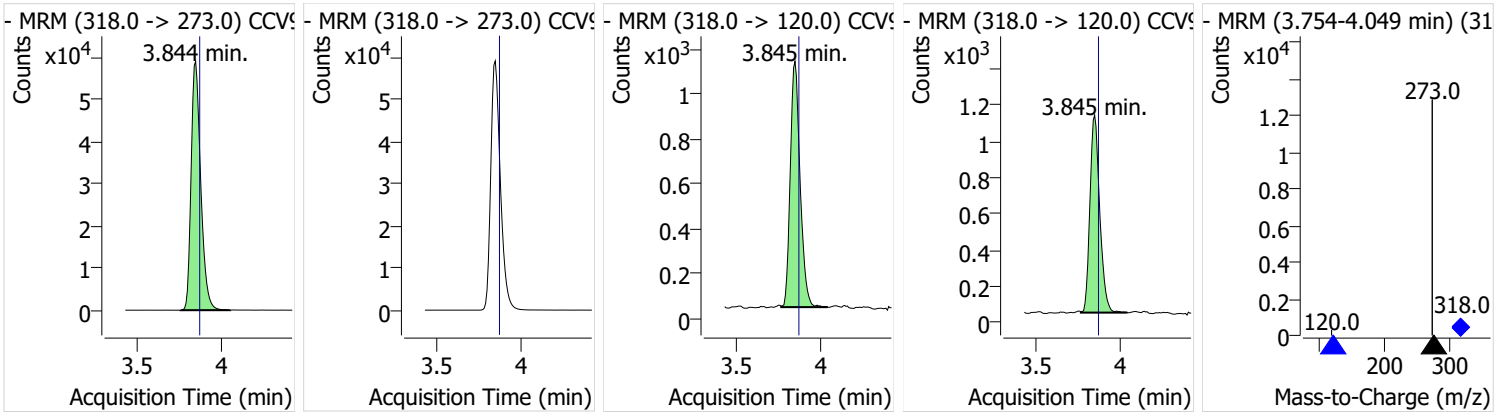
13C4-PFOA



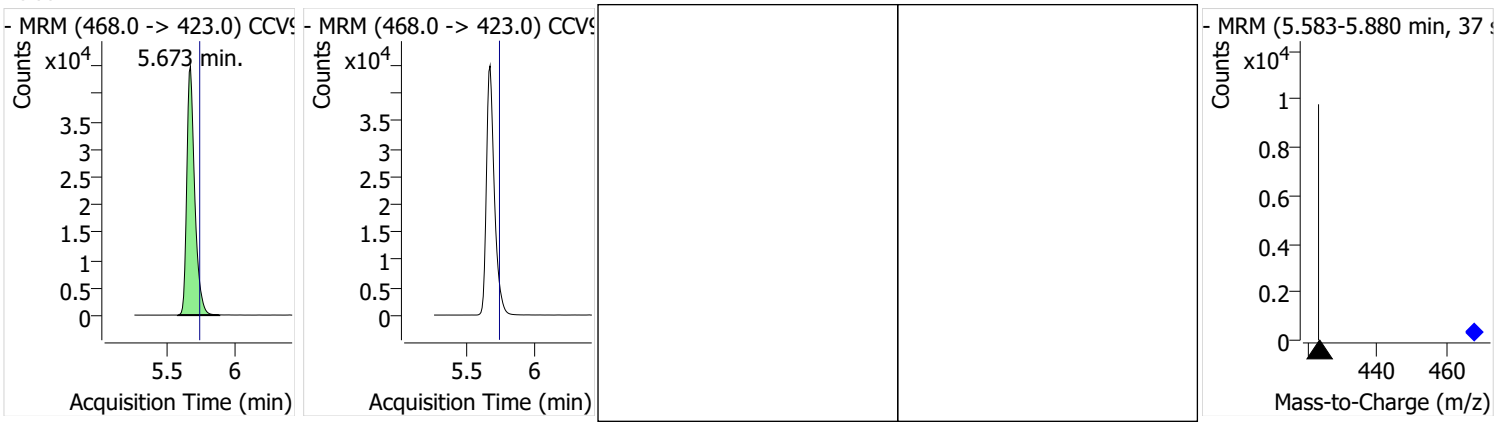
13C4-PFOS



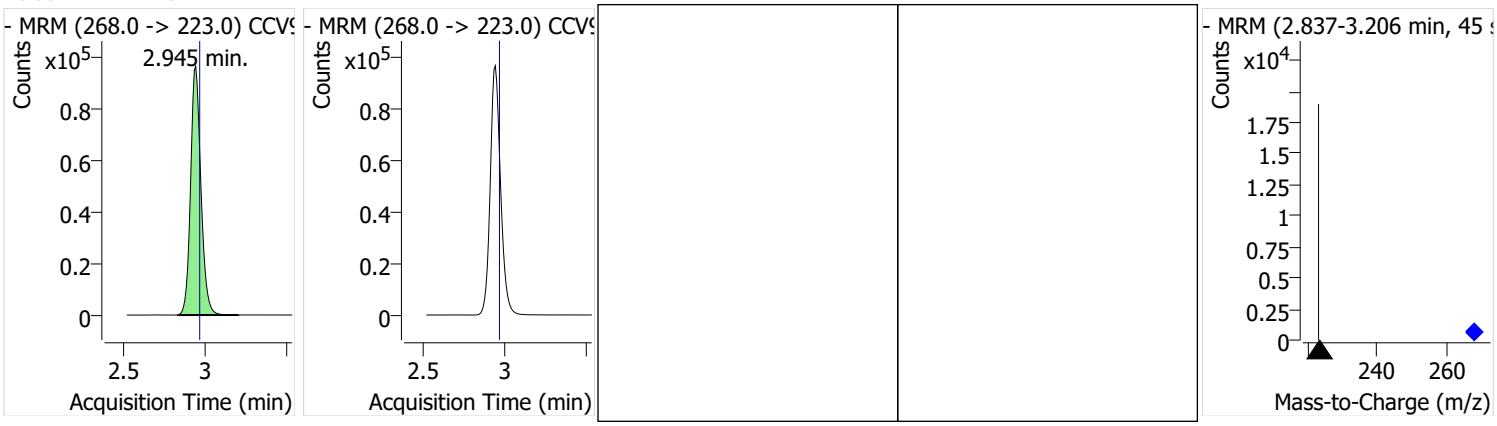
13C5-PFHxA - ISTD



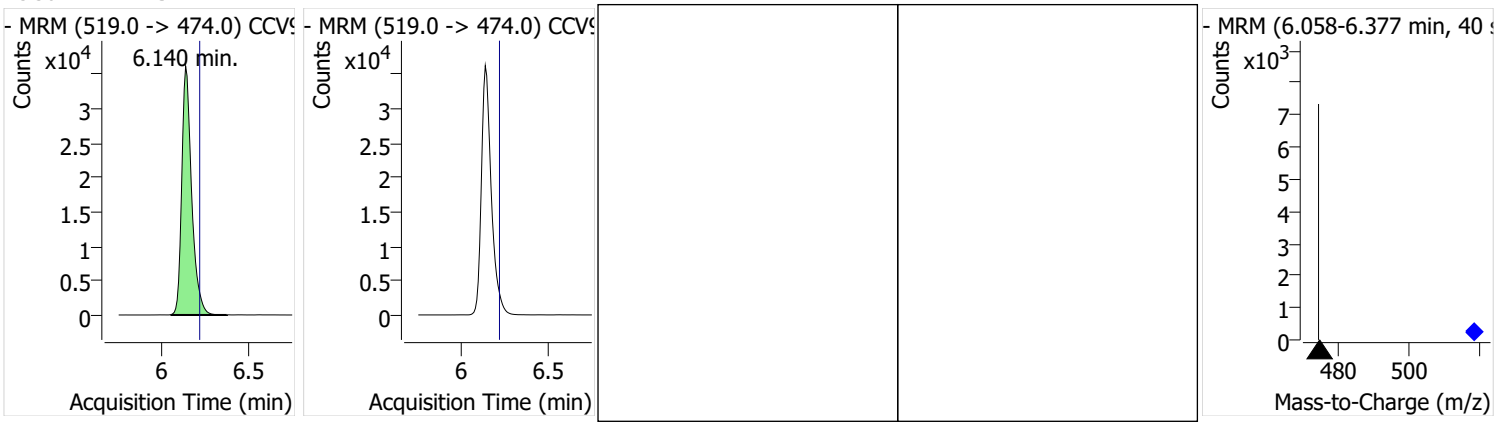
13C5-PFNA



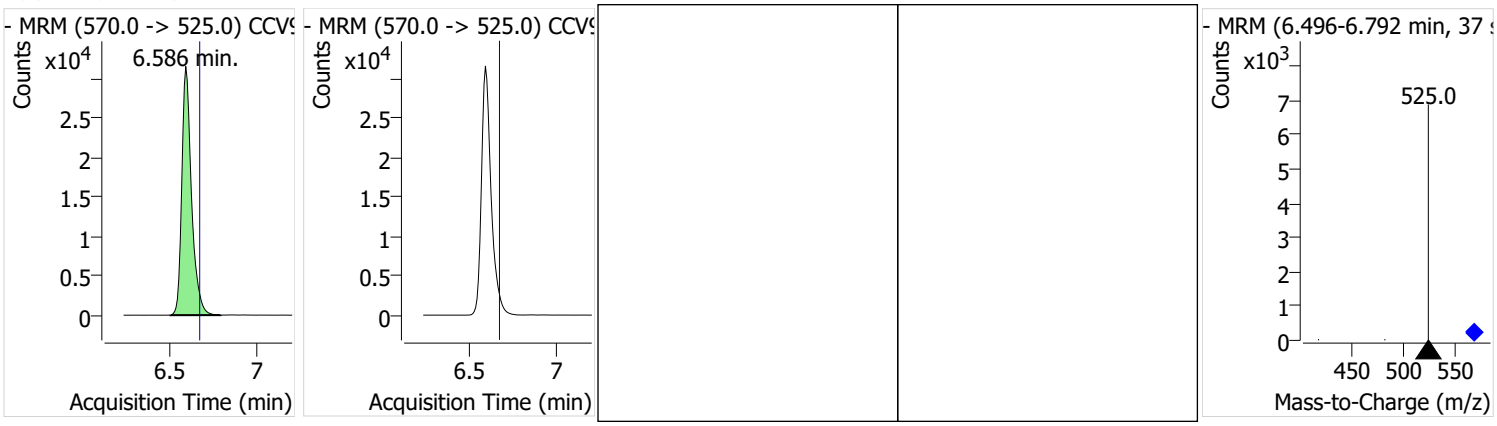
13C5-PFPeA - ISTD



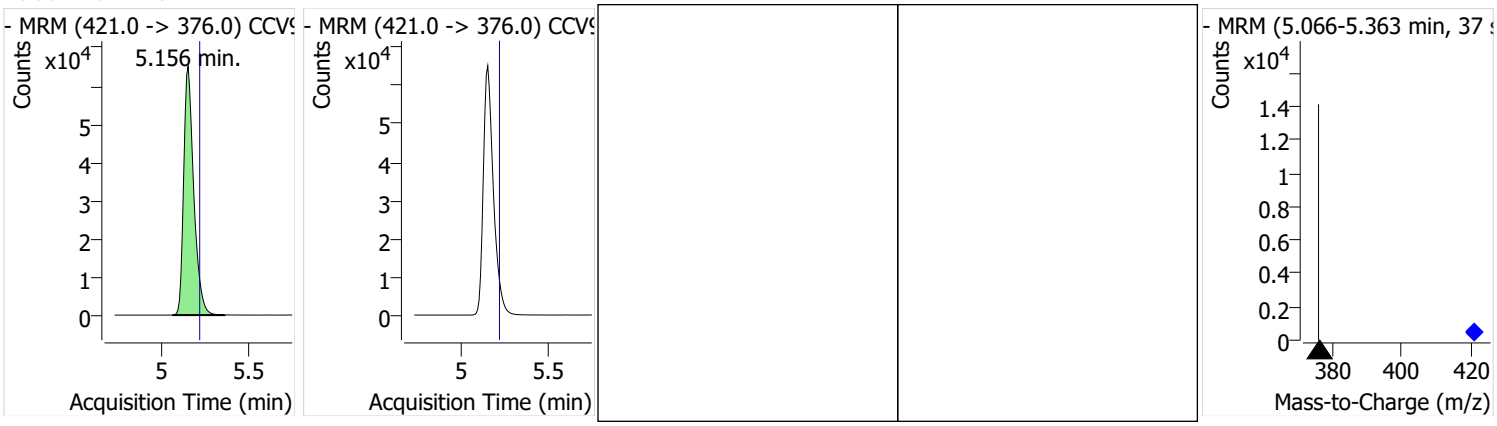
13C6-PFDA - ISTD



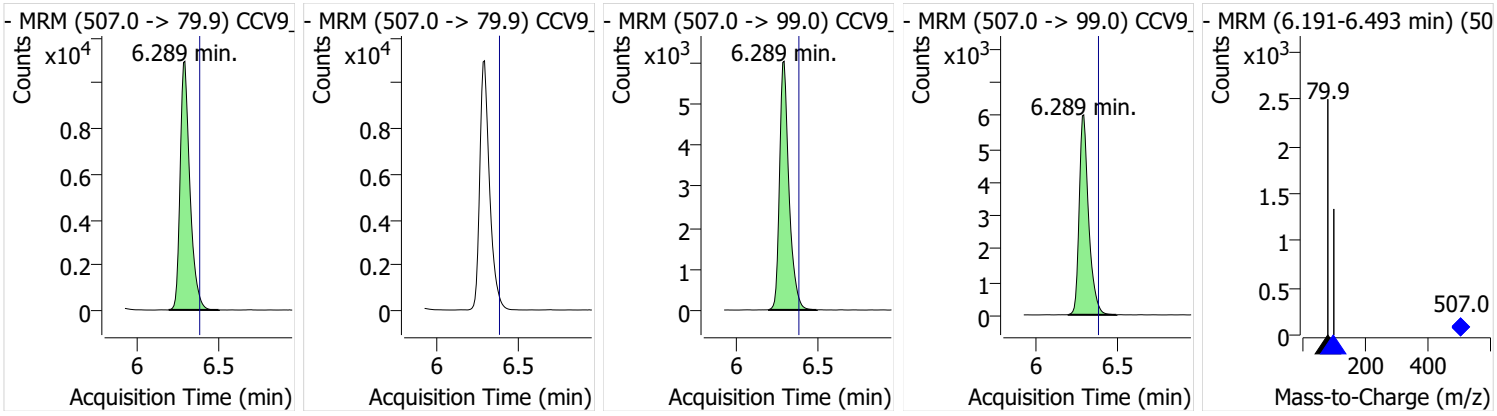
13C7-PFUnA - ISTD



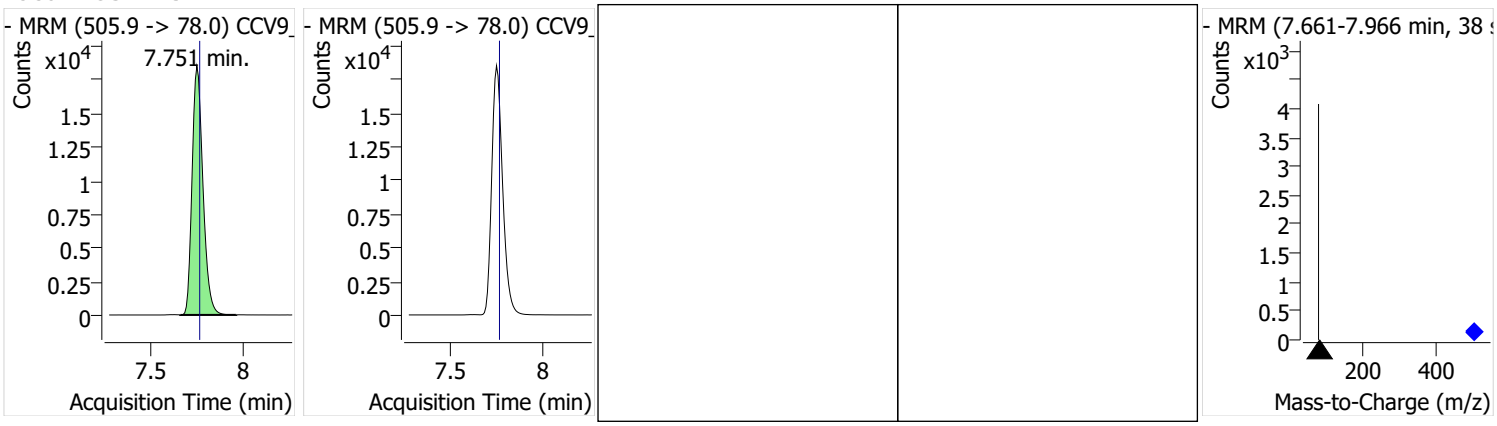
13C8-PFOA - ISTD



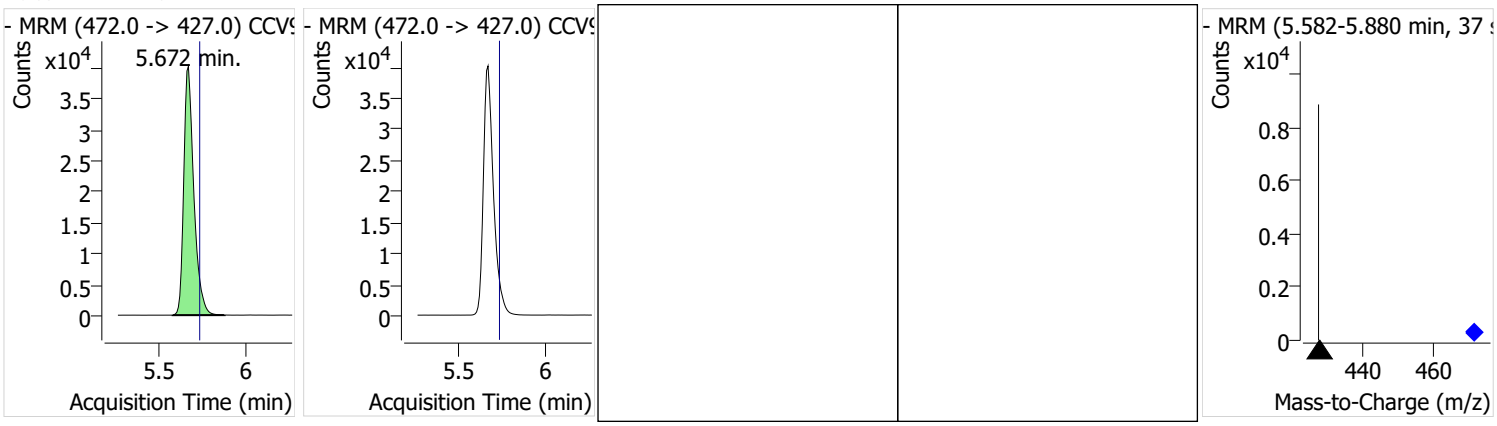
13C8-PFOS - ISTD



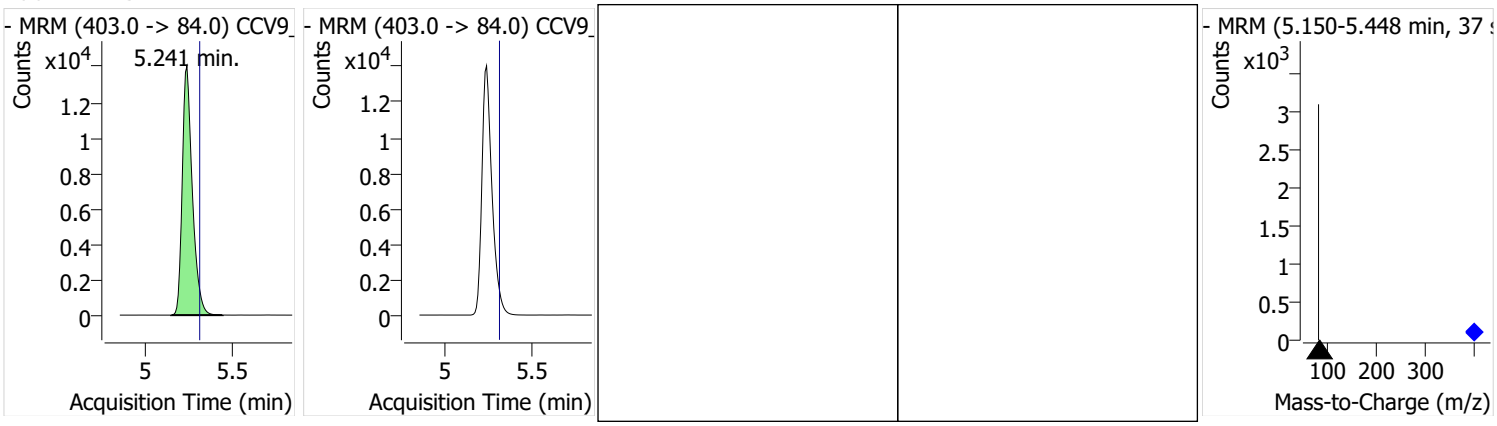
13C8-PFOSA - ISTD



13C9-PFNA - ISTD



18O2-PFHxS



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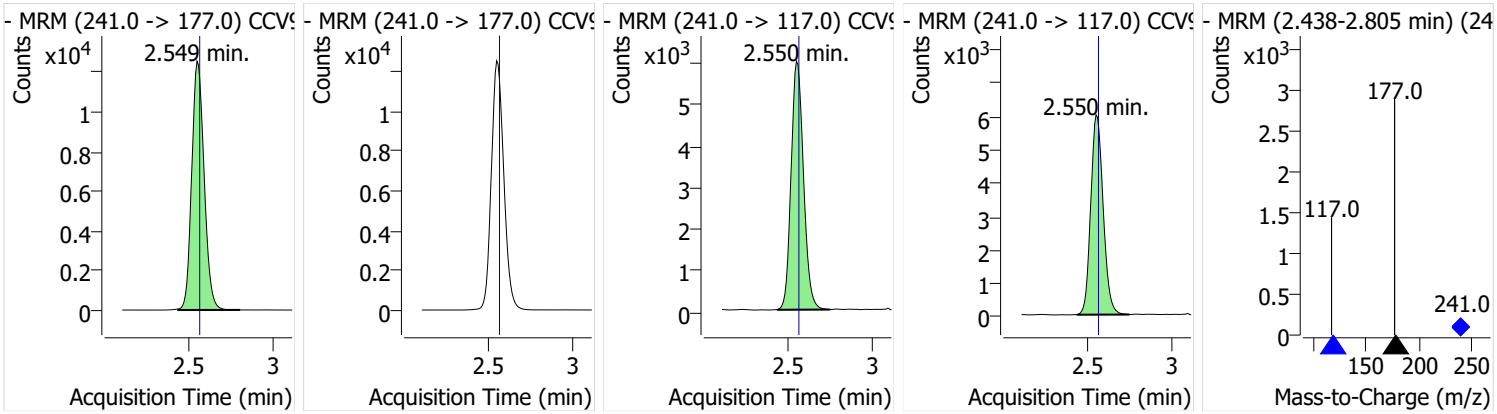

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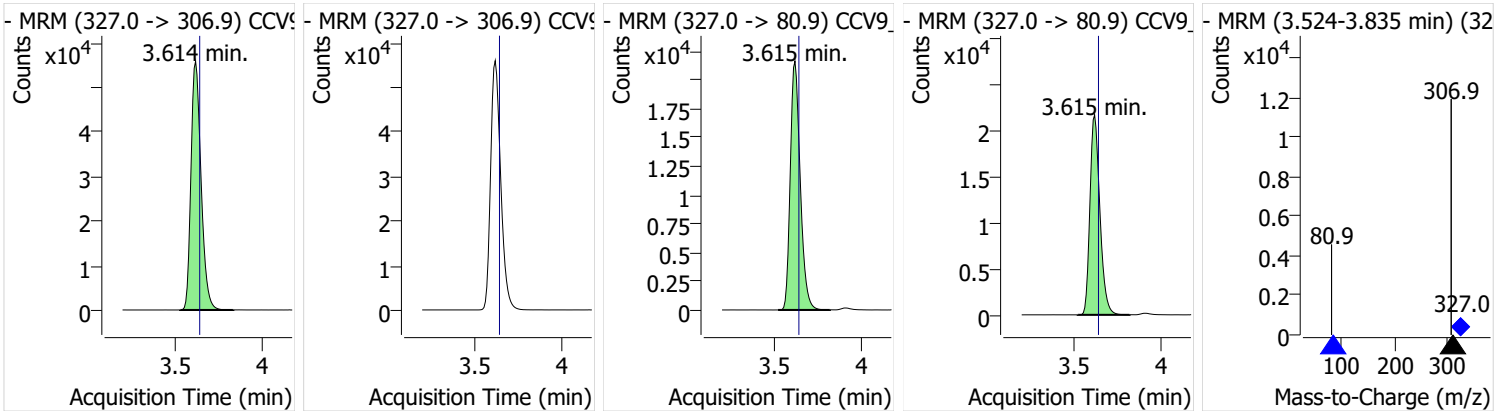

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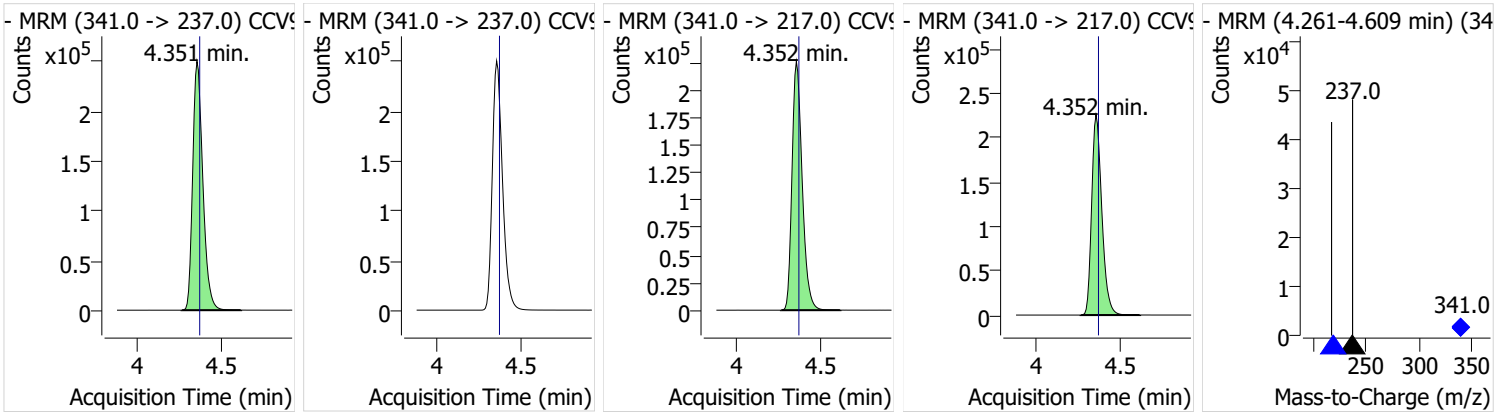

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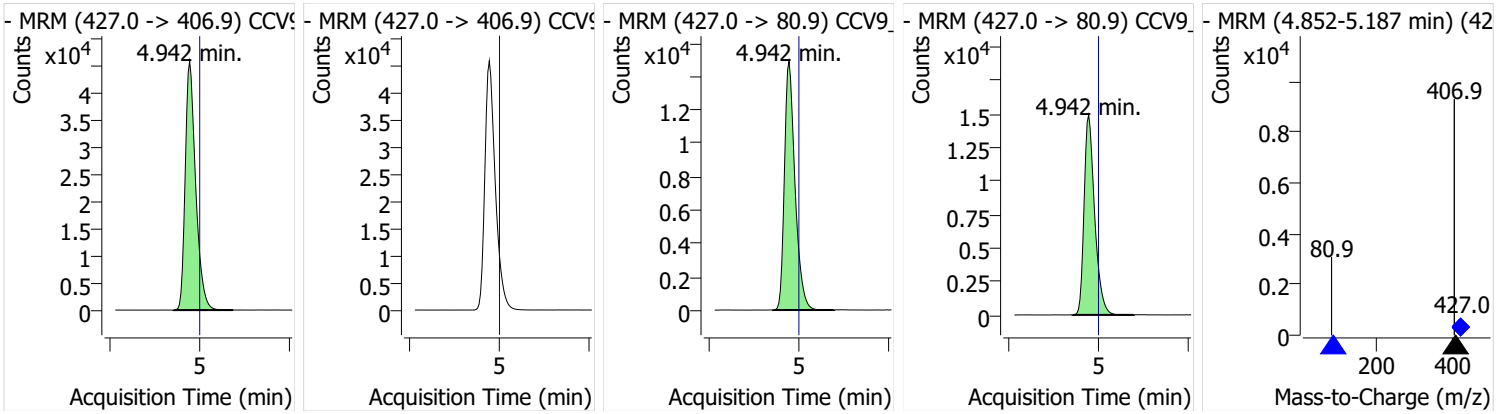

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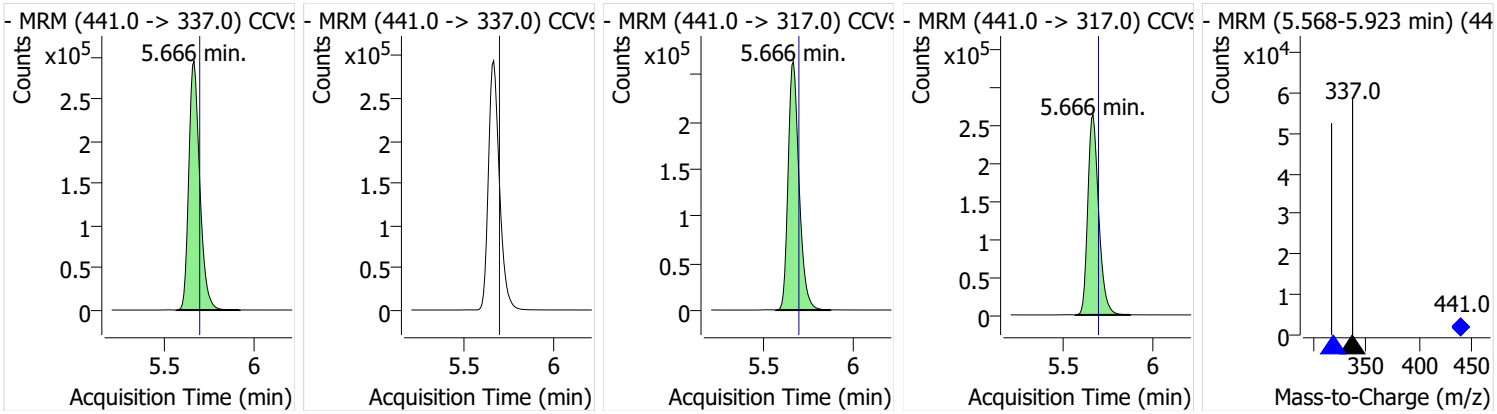

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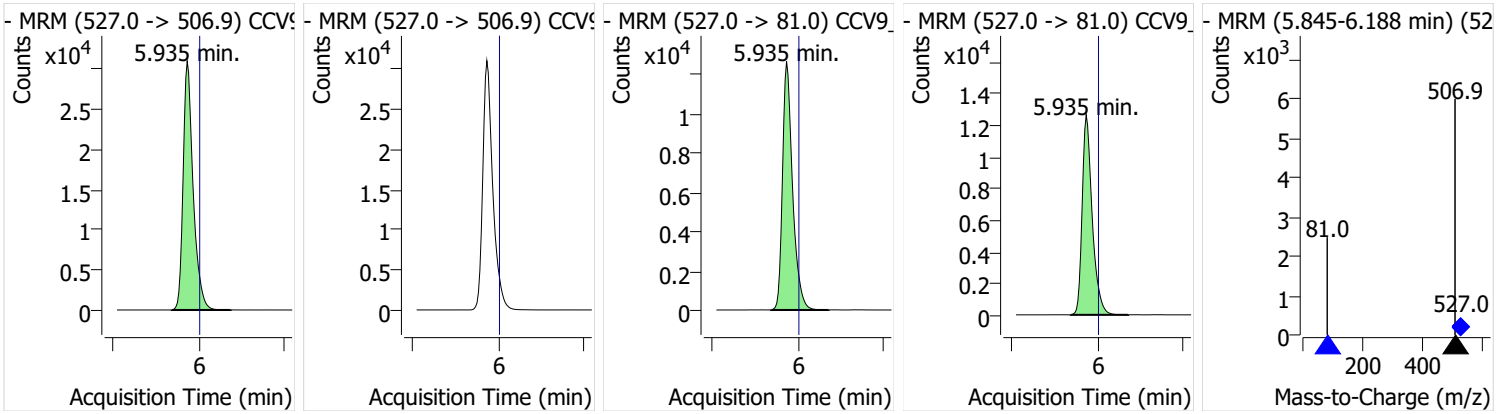
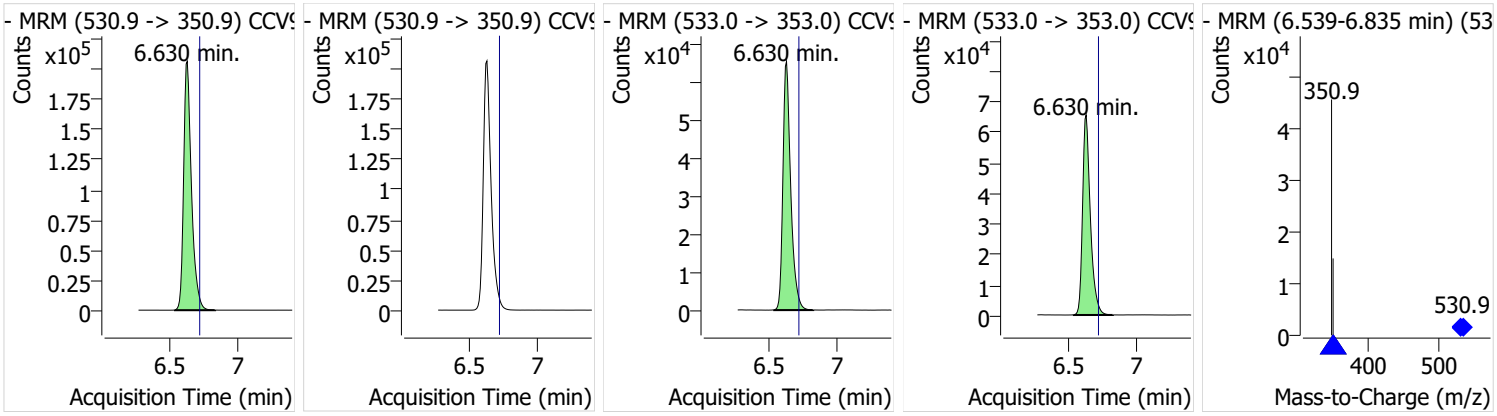


9Cl-PF3ONS



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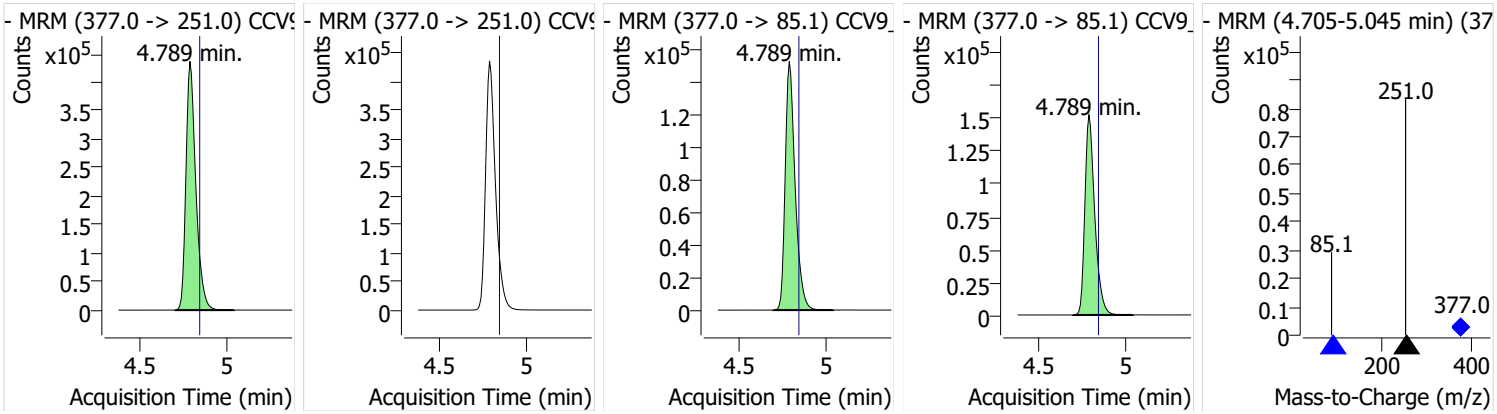
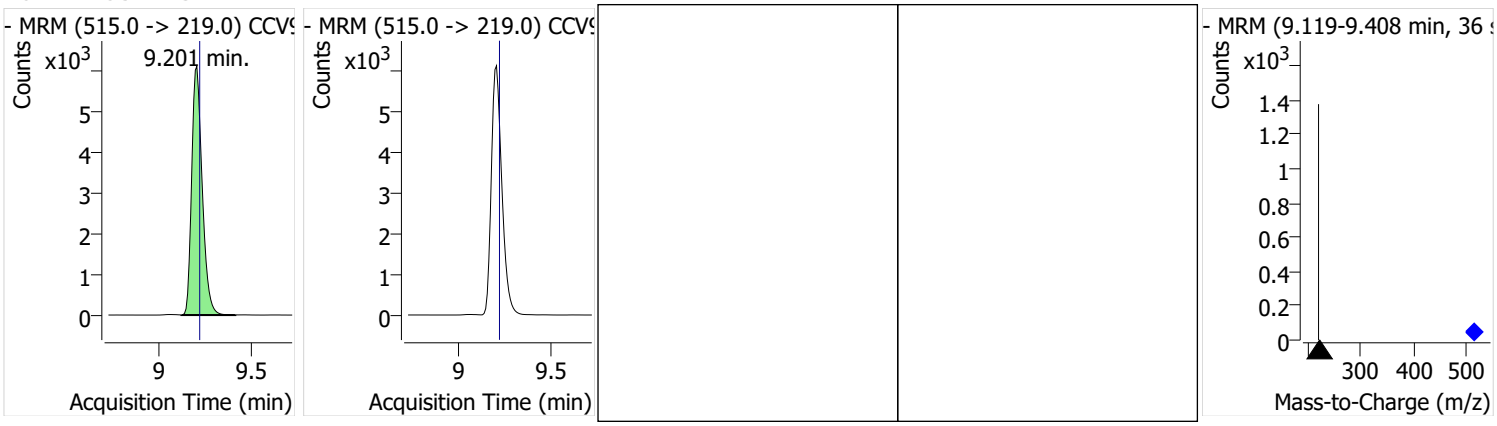
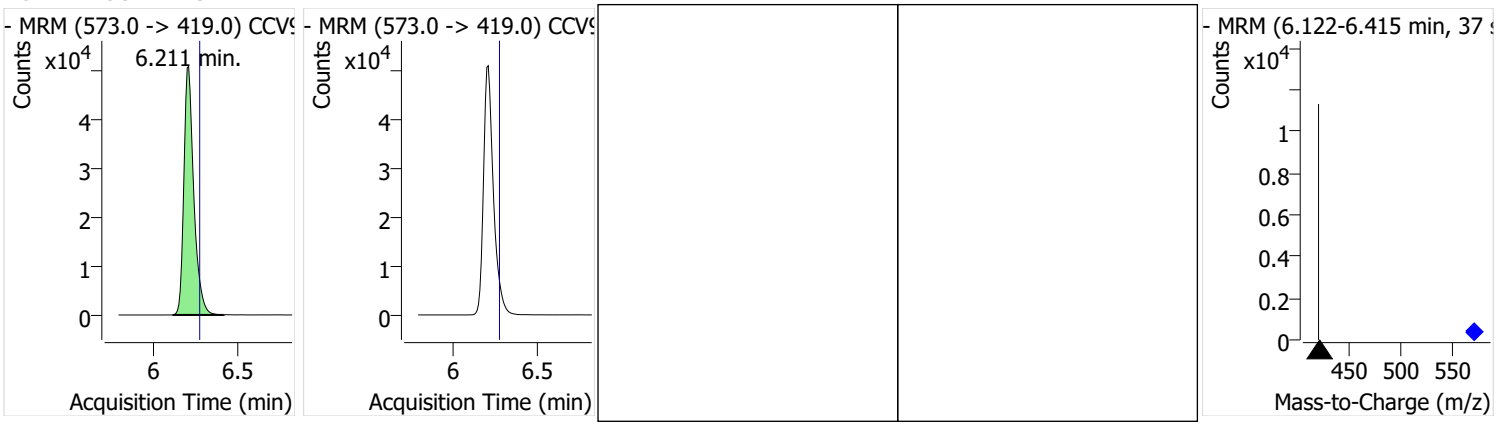


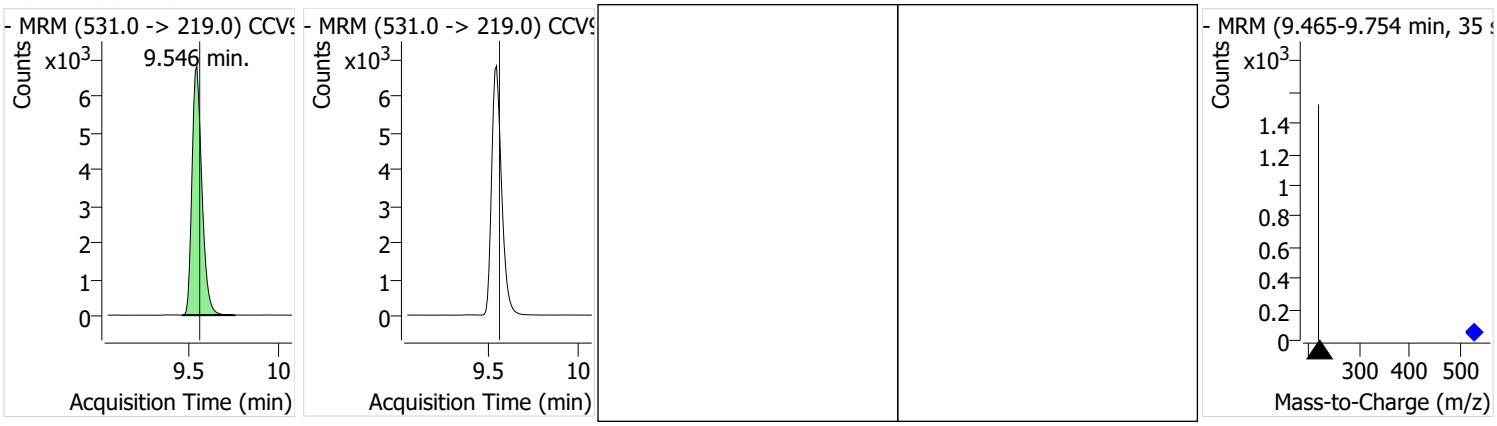
D3-NMeFOSA - ISTD



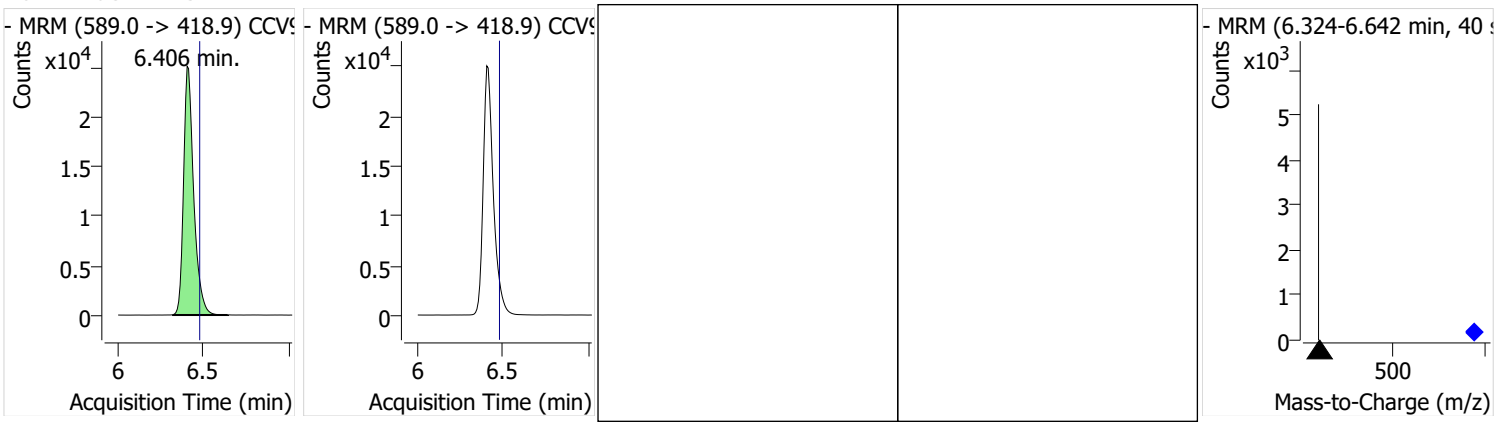
D3-NMeFOSAA - ISTD



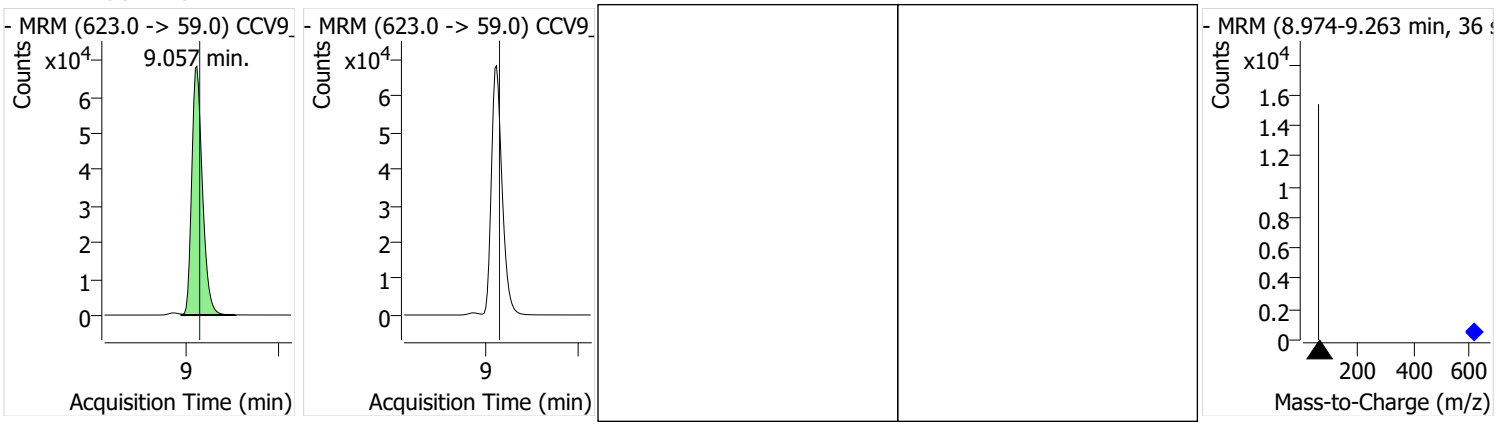
D5-NEtFOSA - ISTD



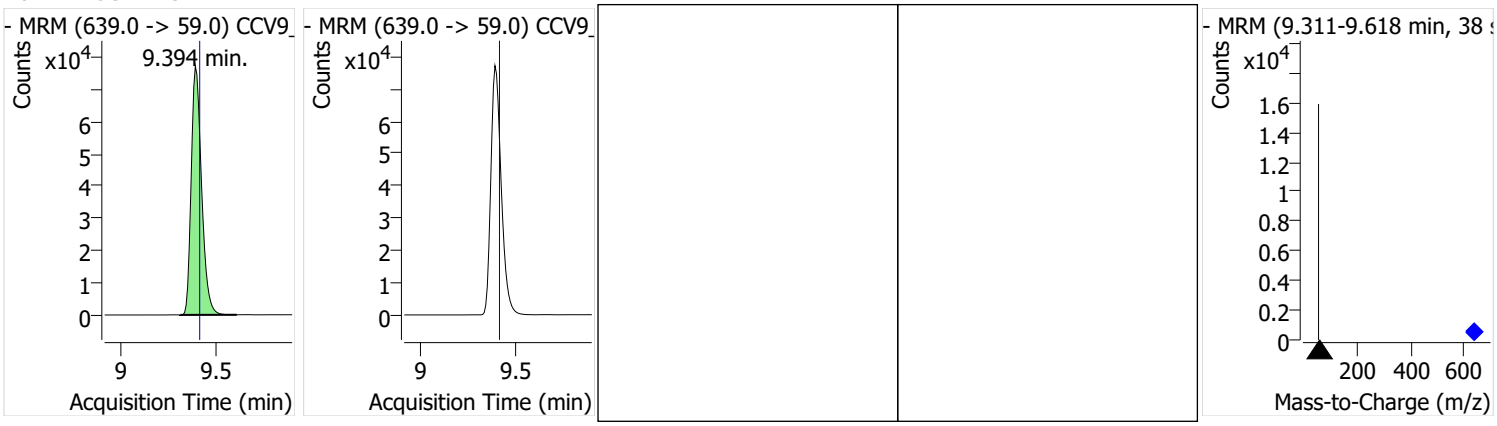
D5-NEtFOSAA - ISTD



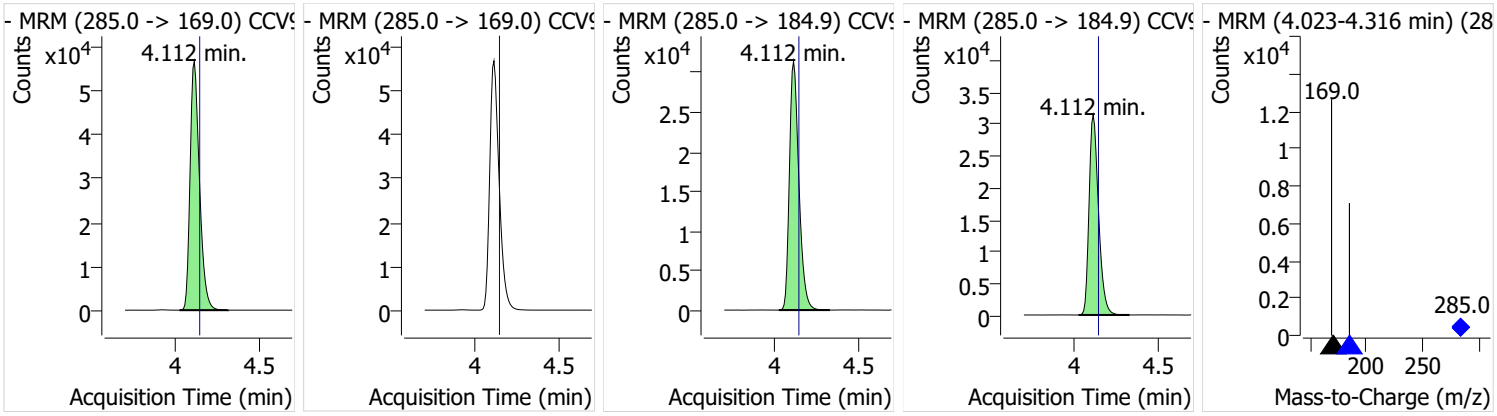
D7-NMeFOSE - ISTD



D9-NEtFOSE - ISTD



HFPO-DA



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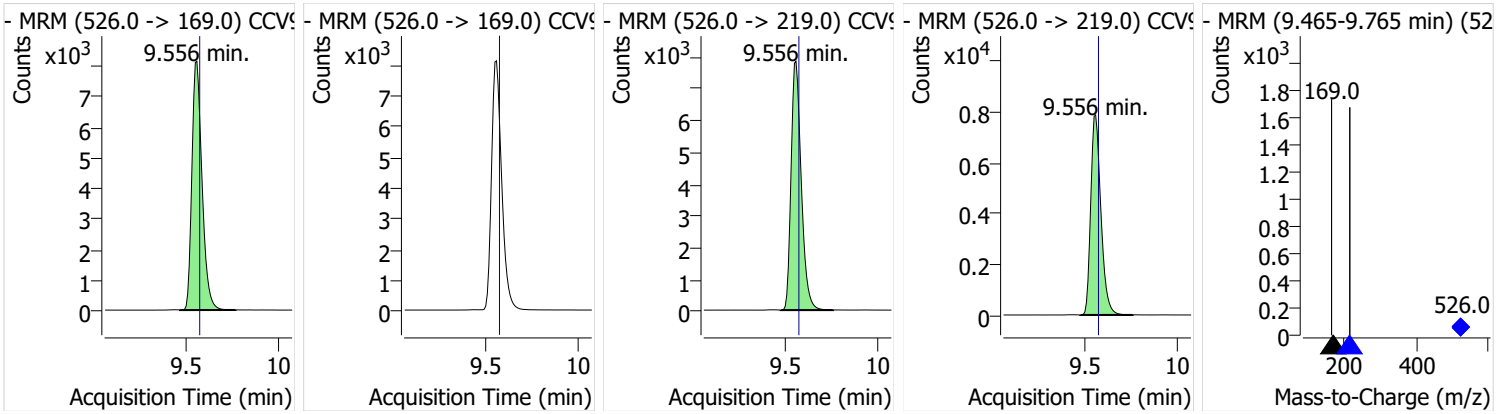

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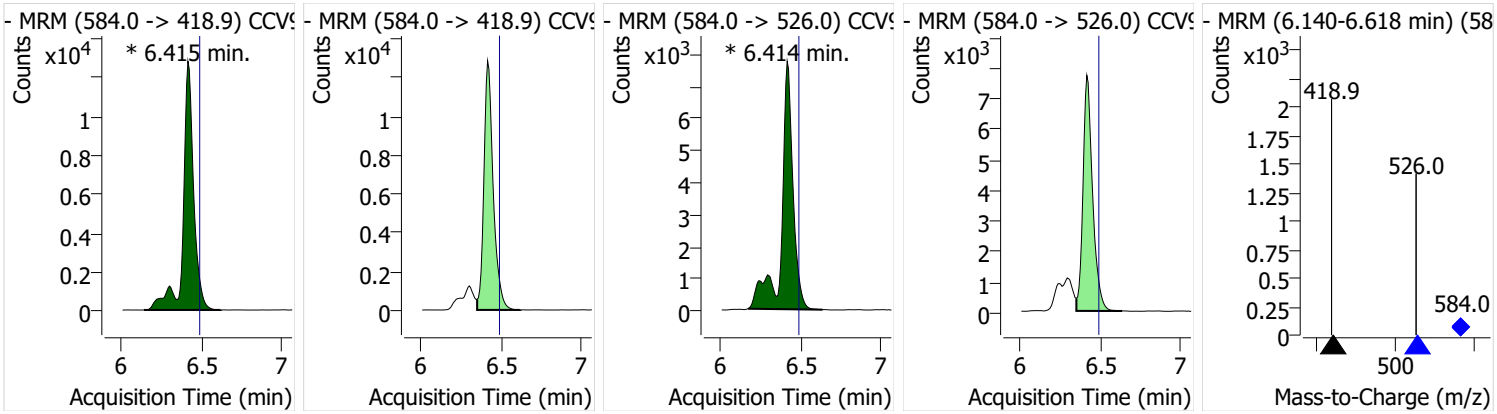

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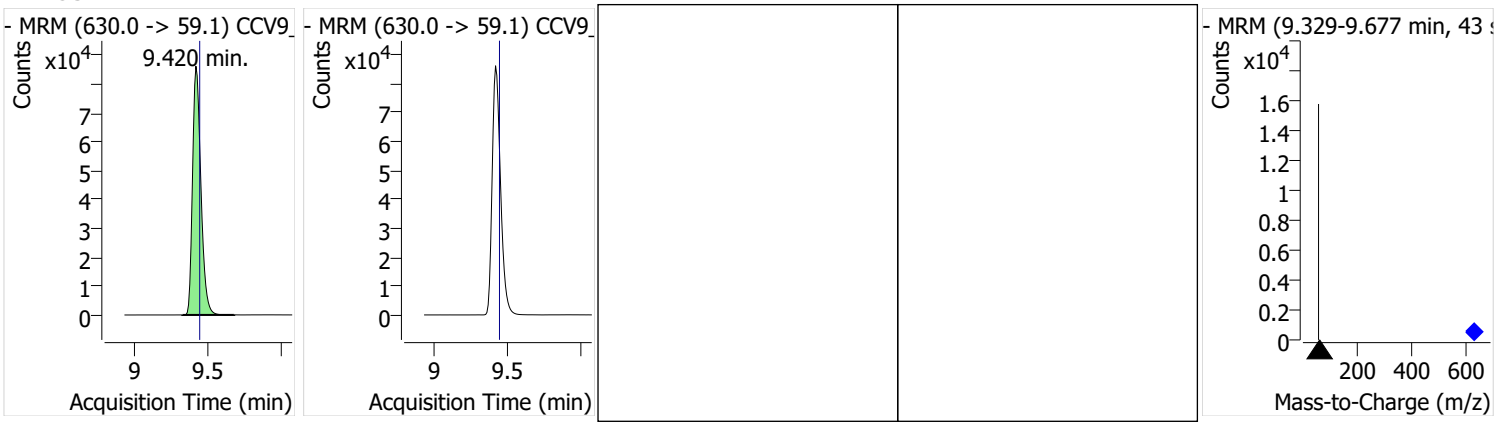

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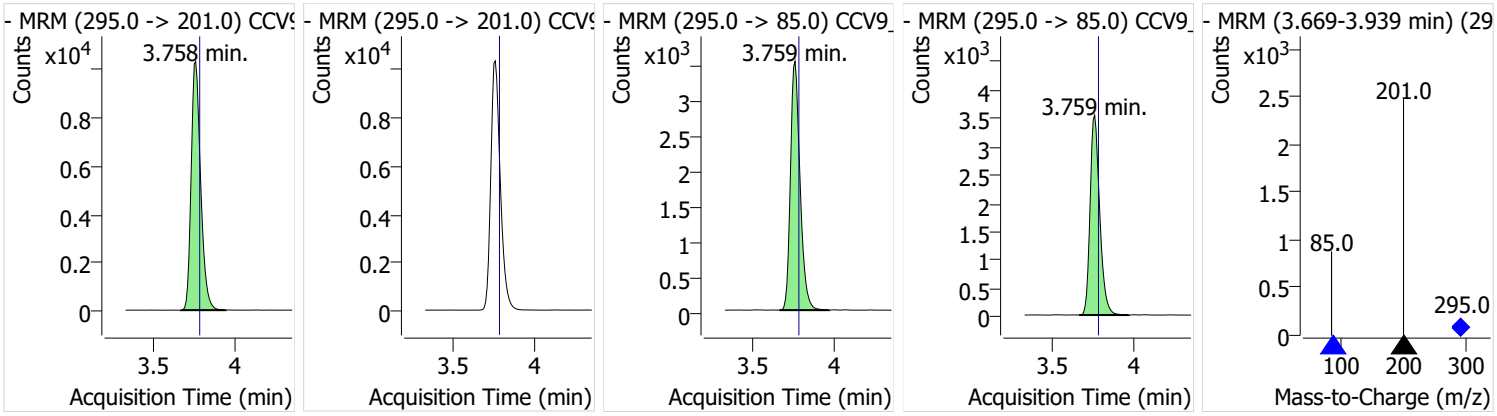

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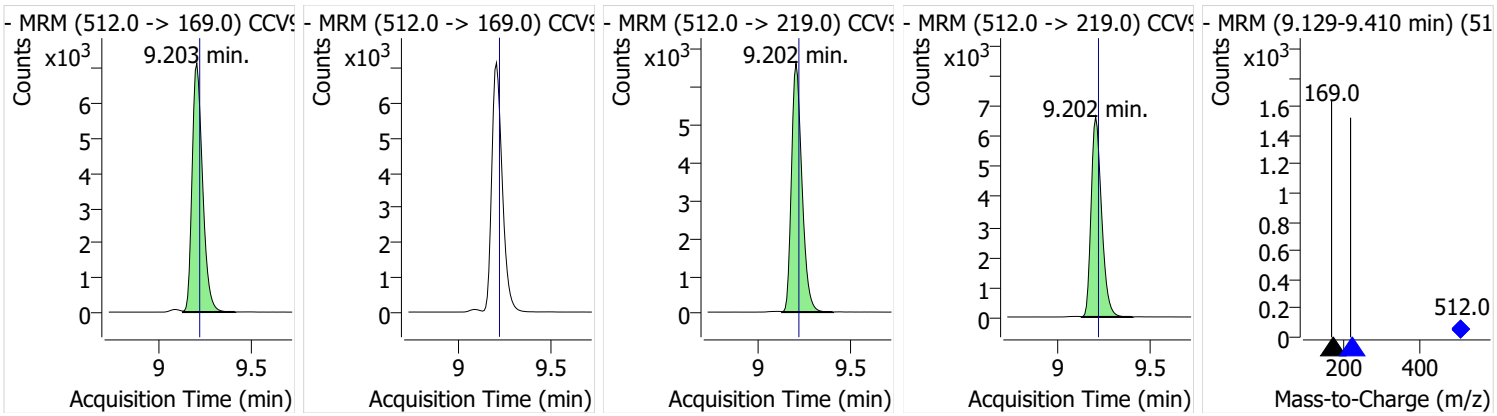

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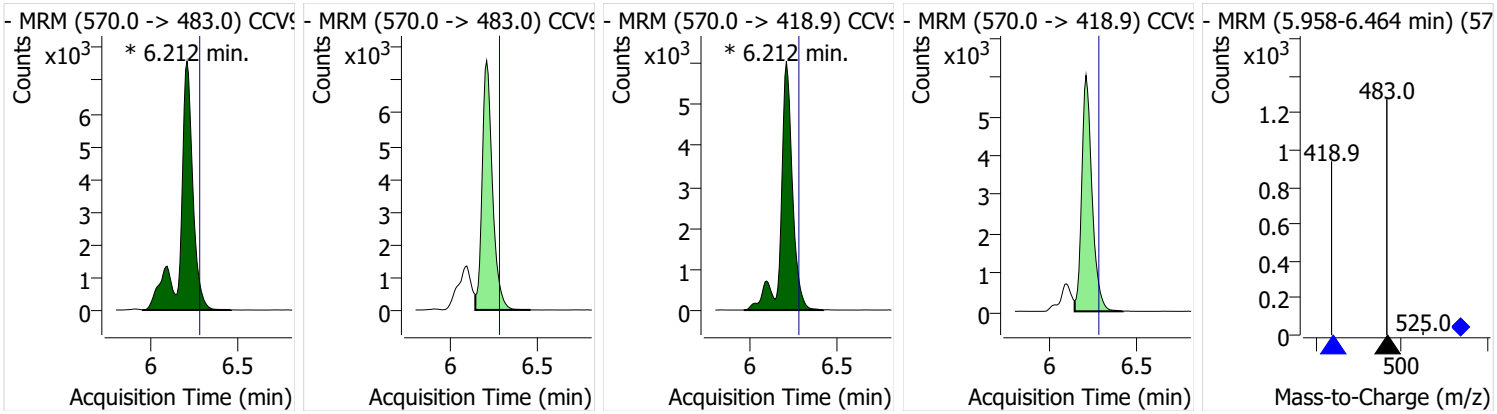

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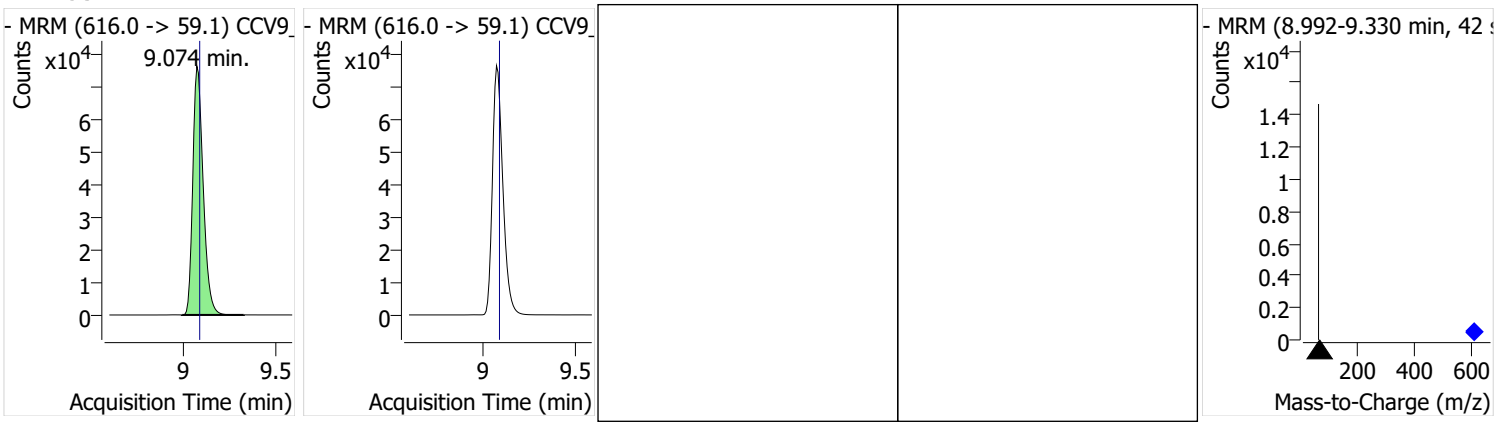

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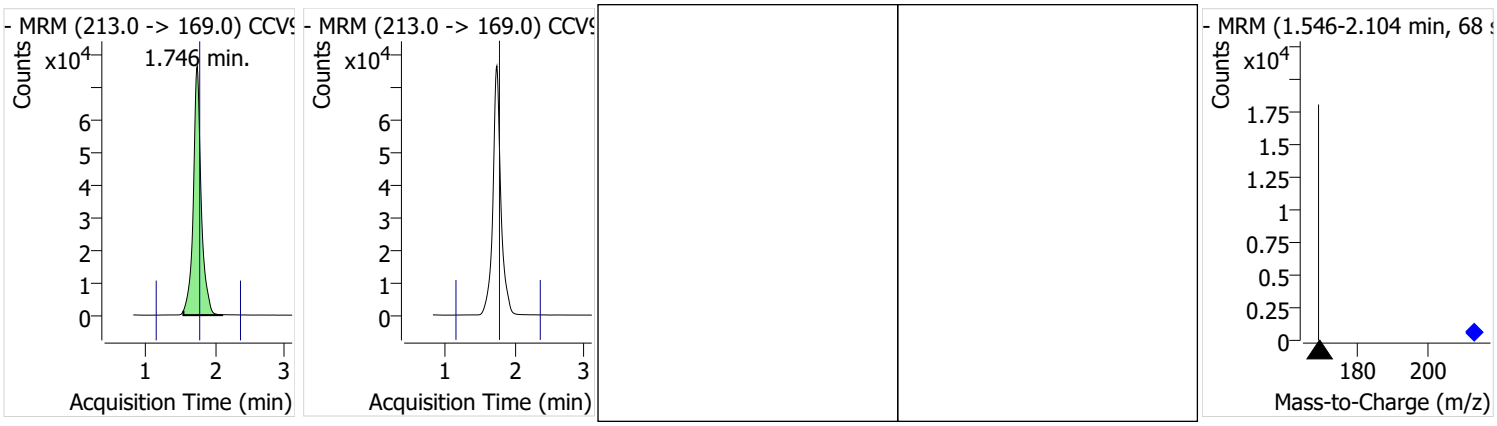

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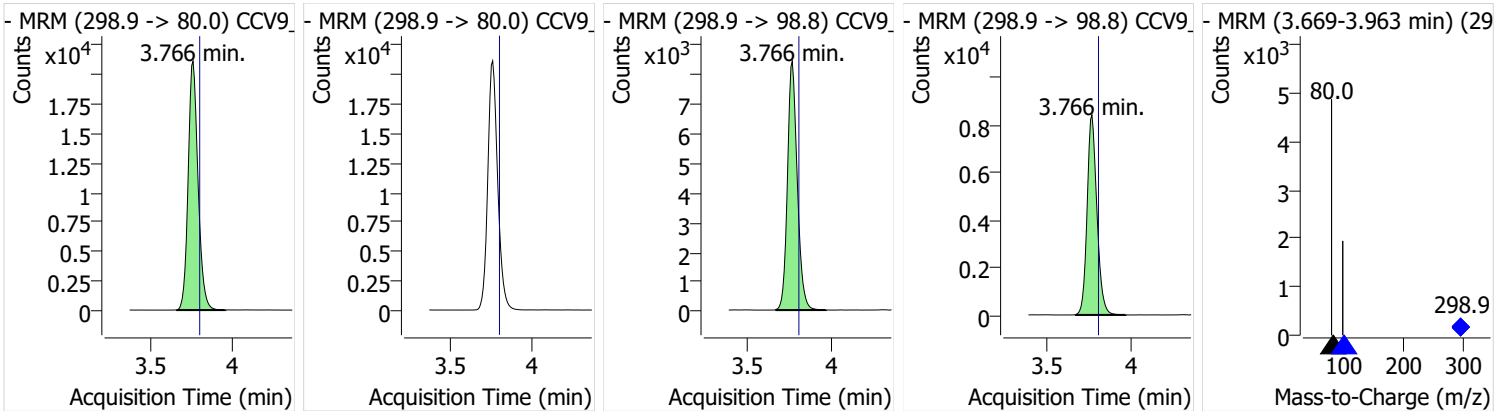

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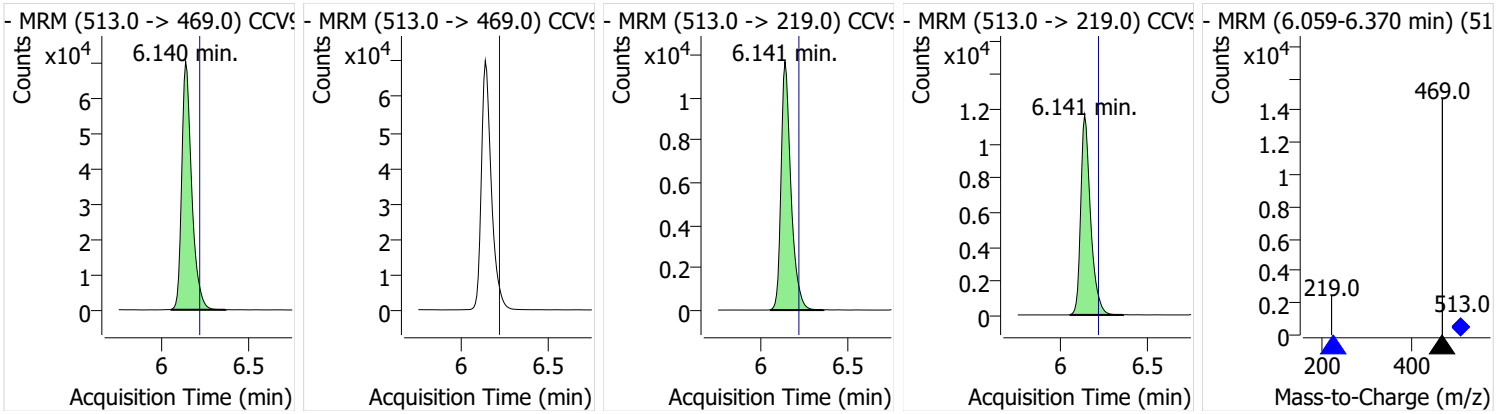

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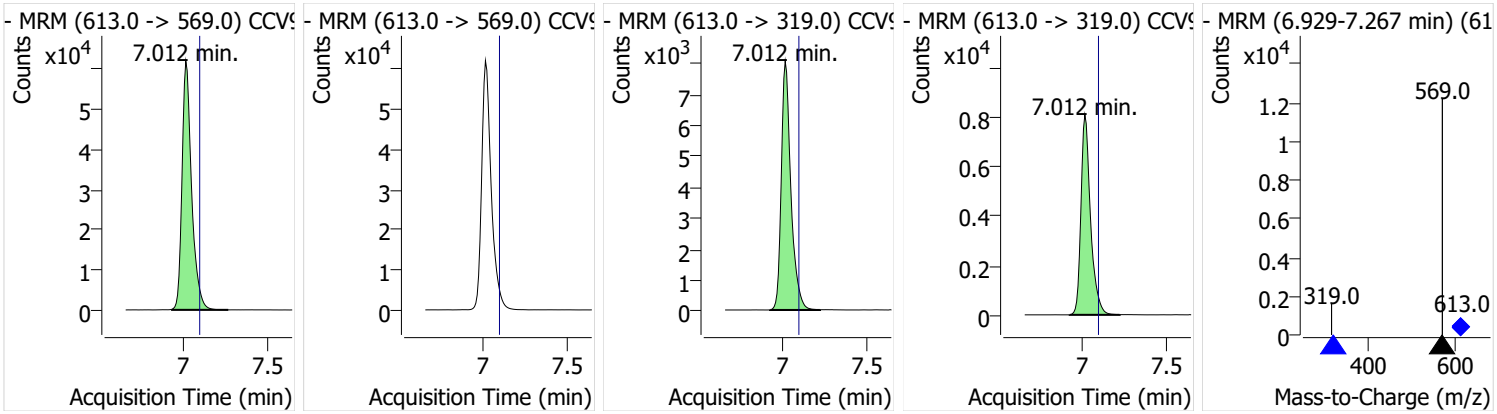

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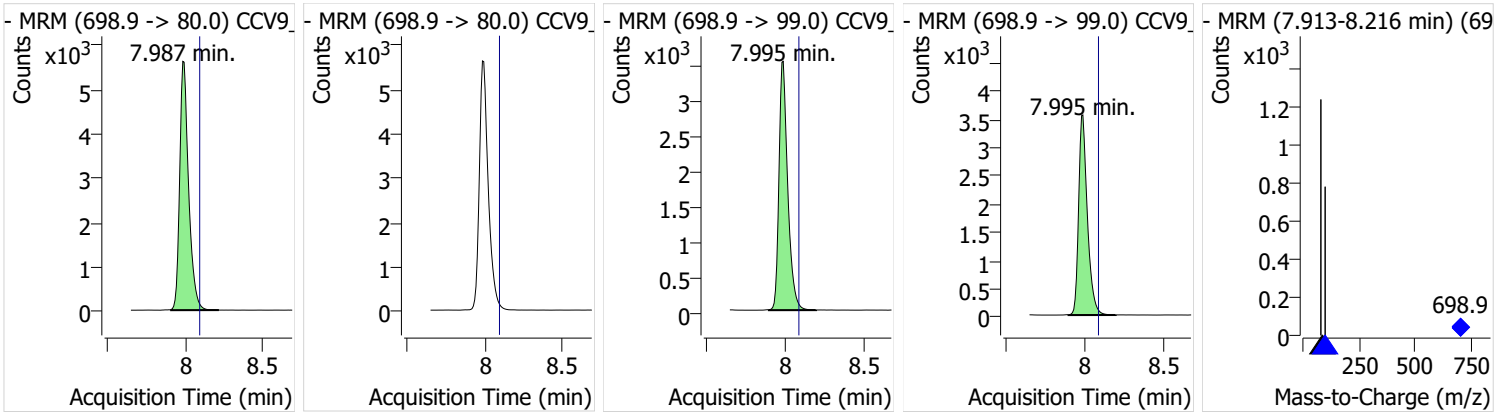

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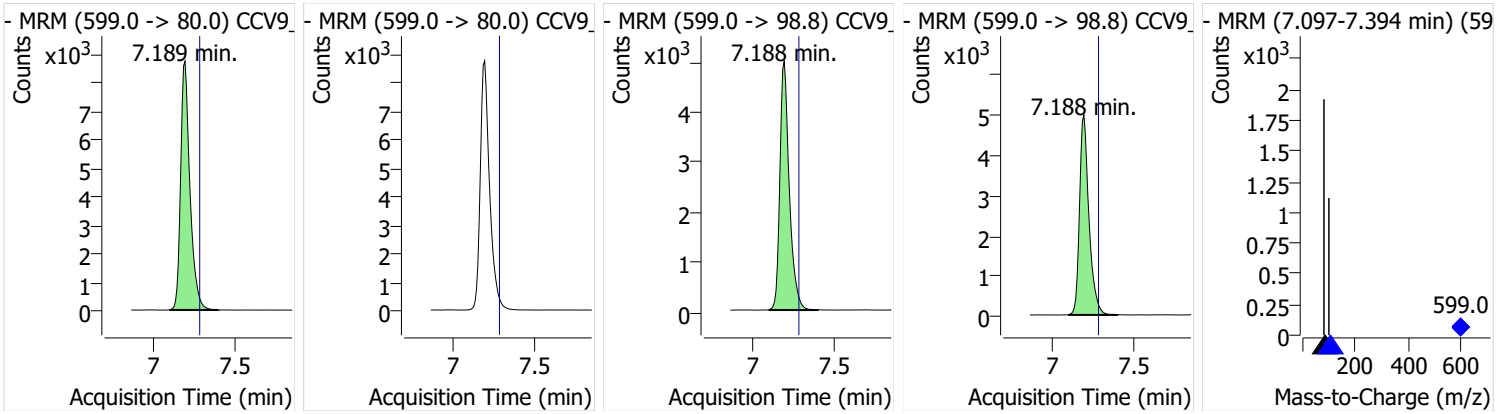

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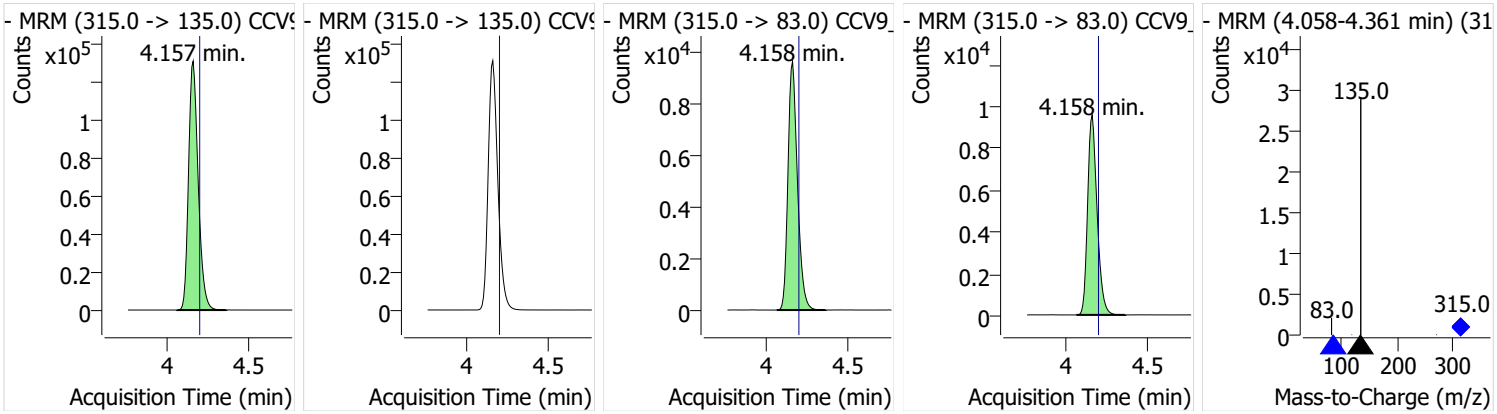

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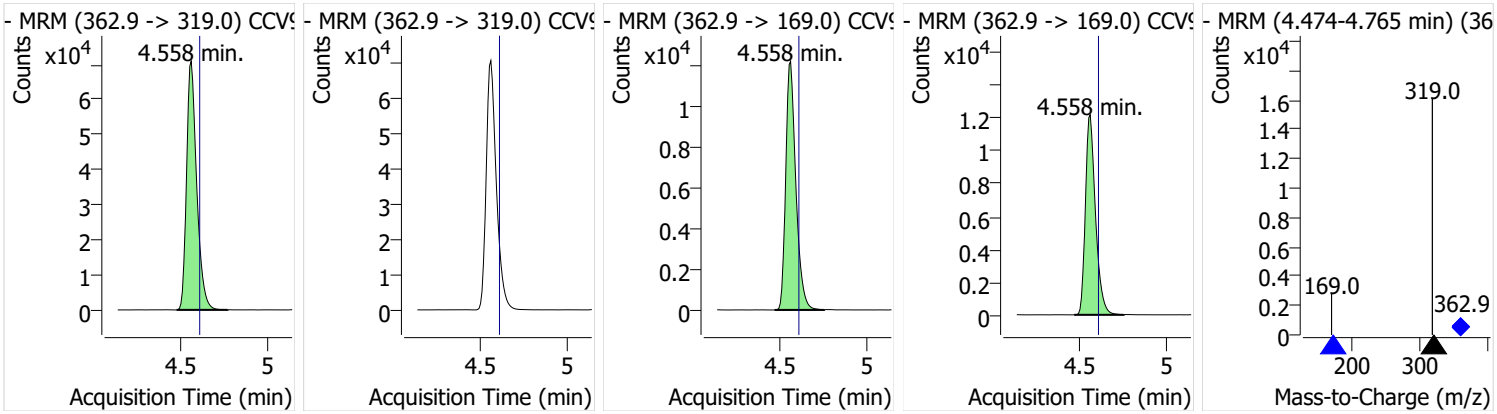

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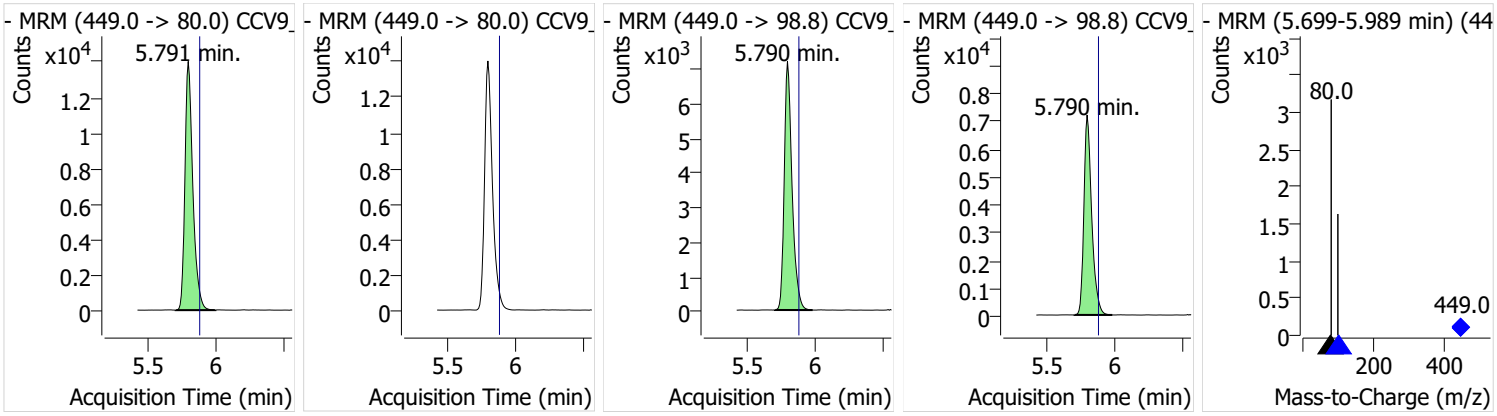

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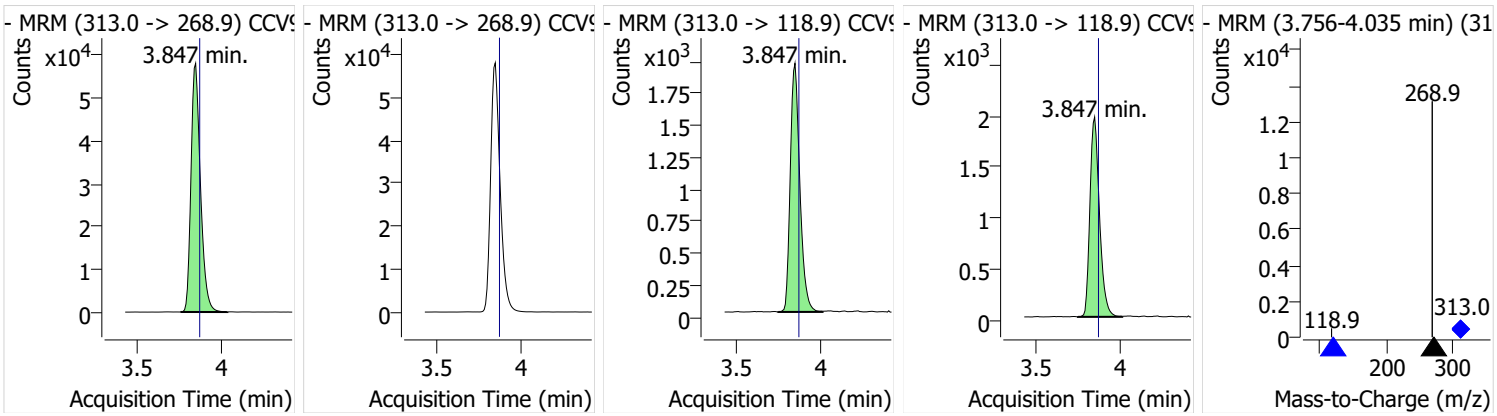

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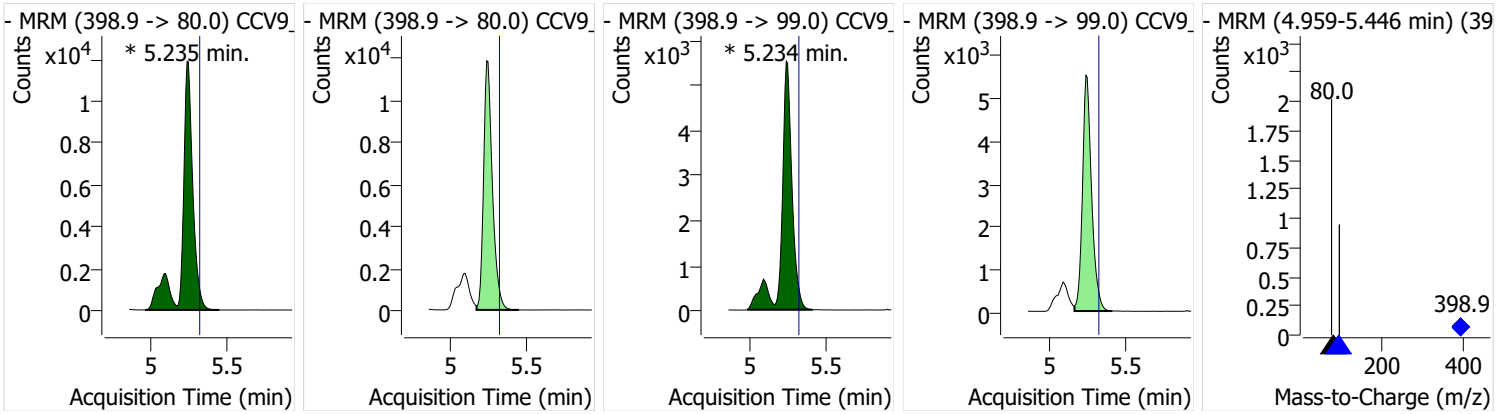

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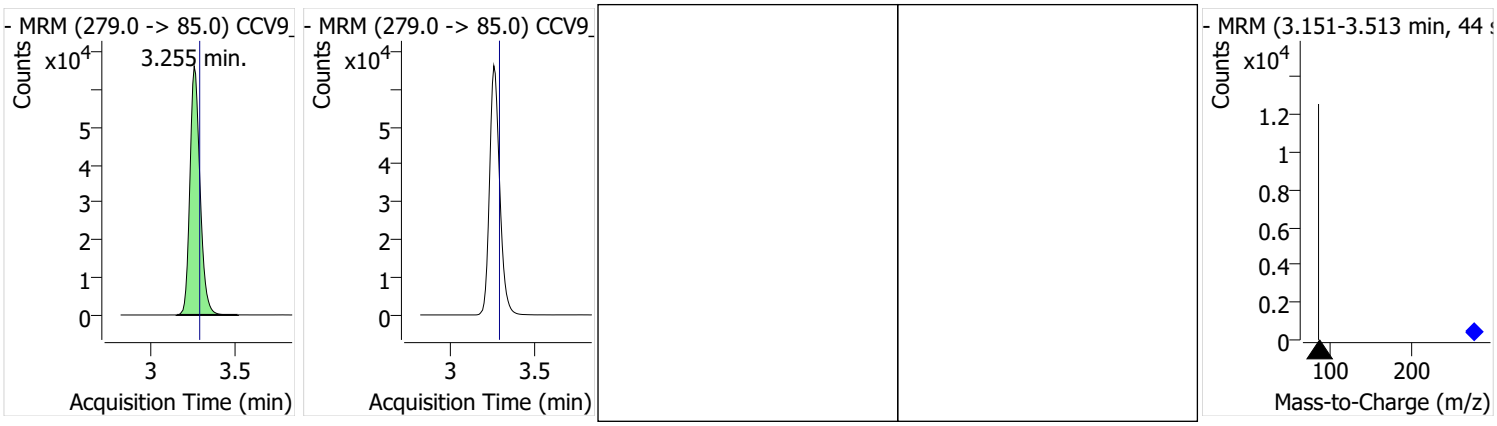

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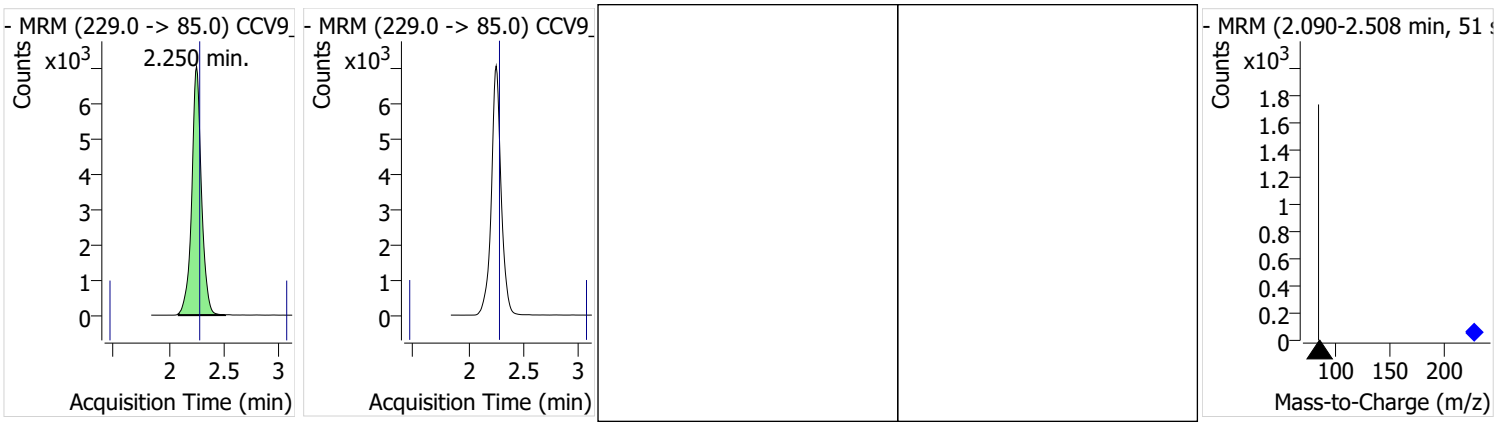

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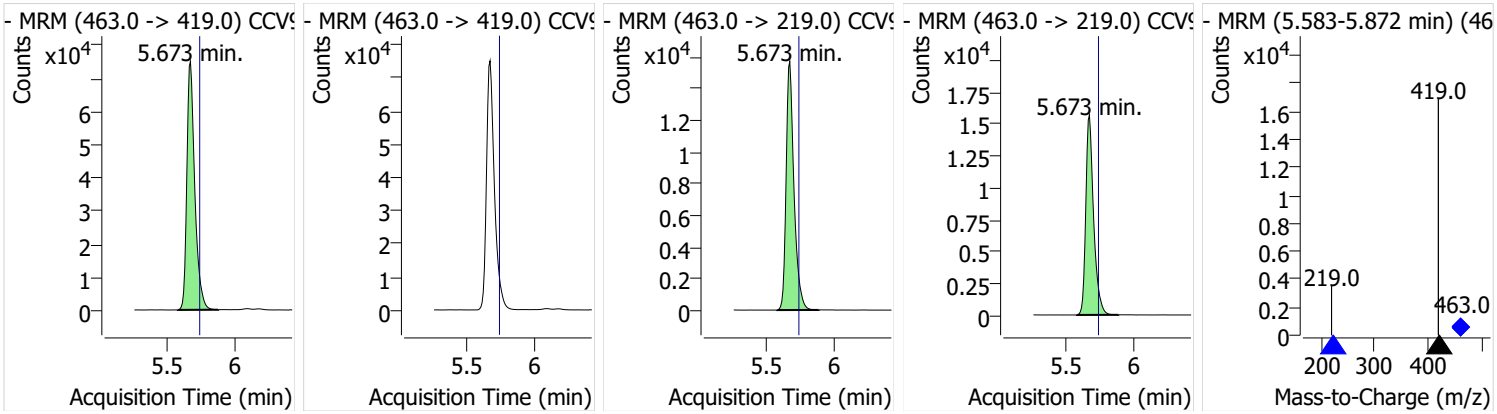

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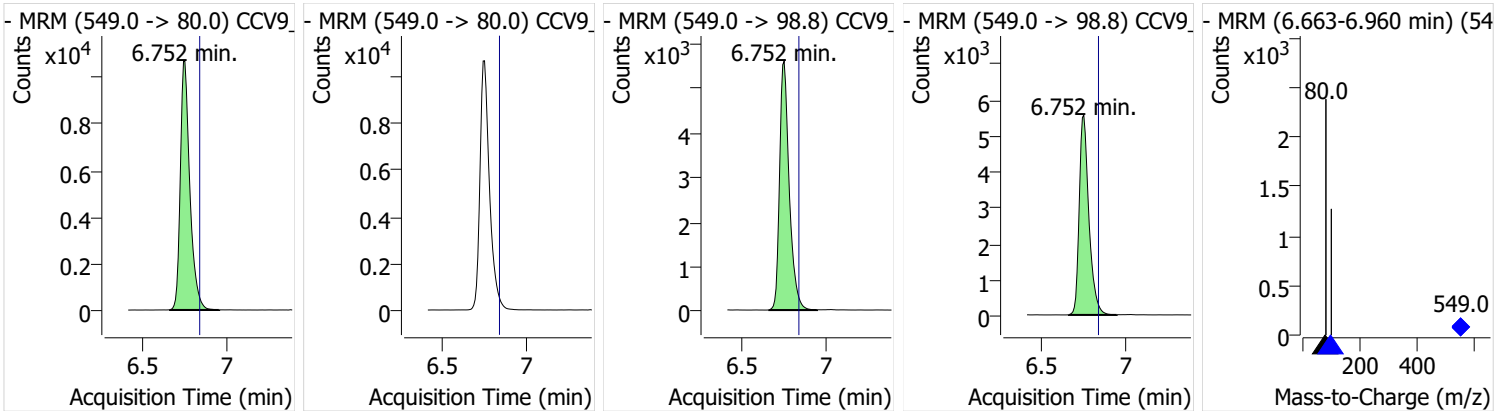
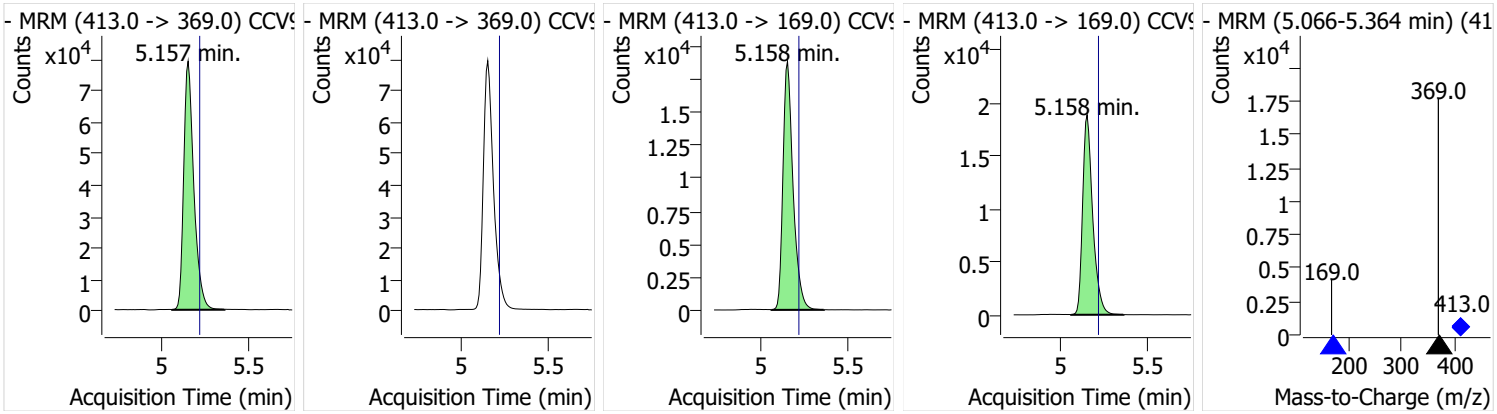


PFOA



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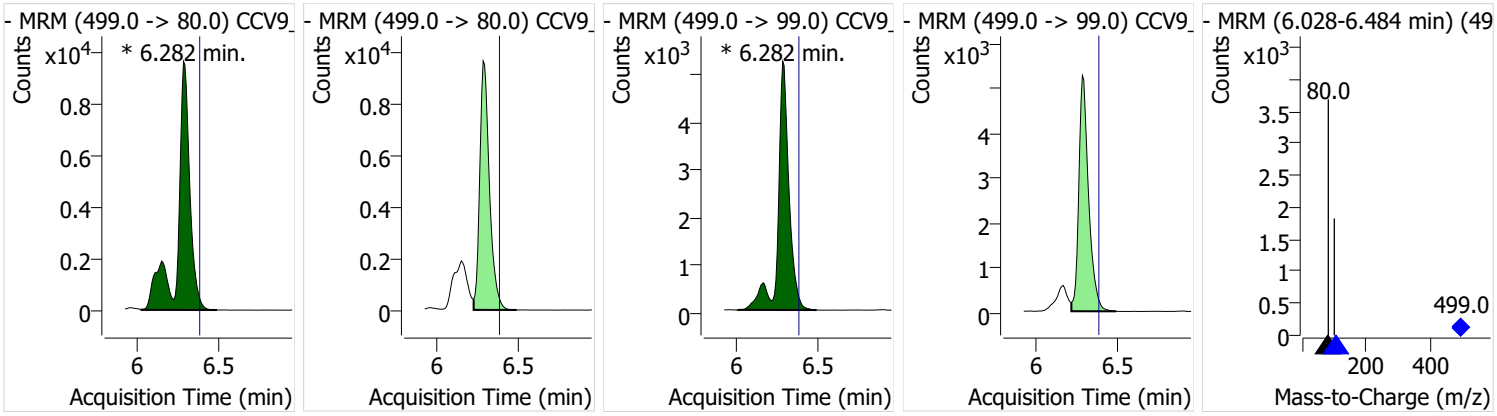
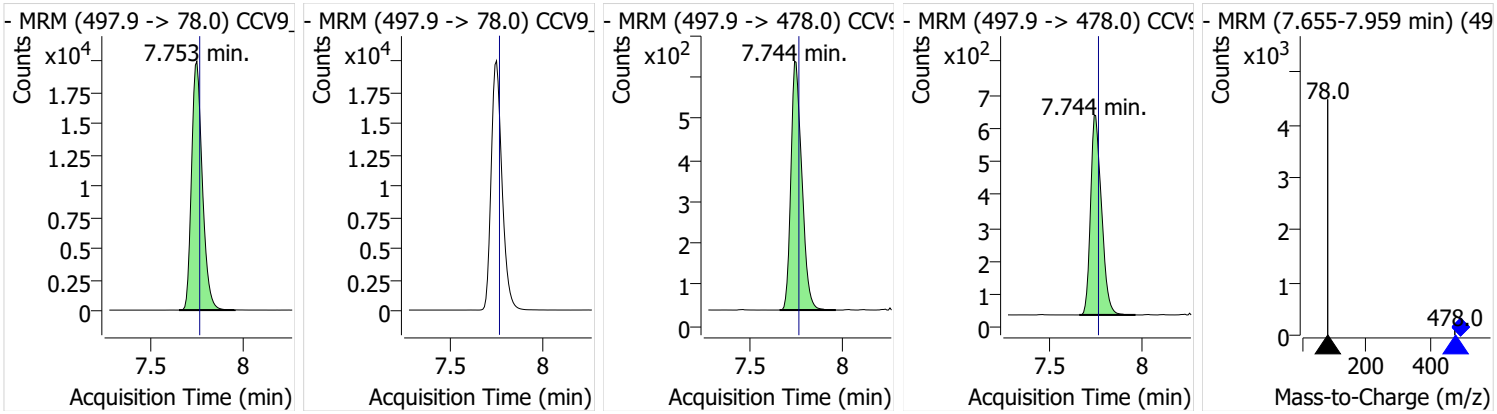


PFOSA



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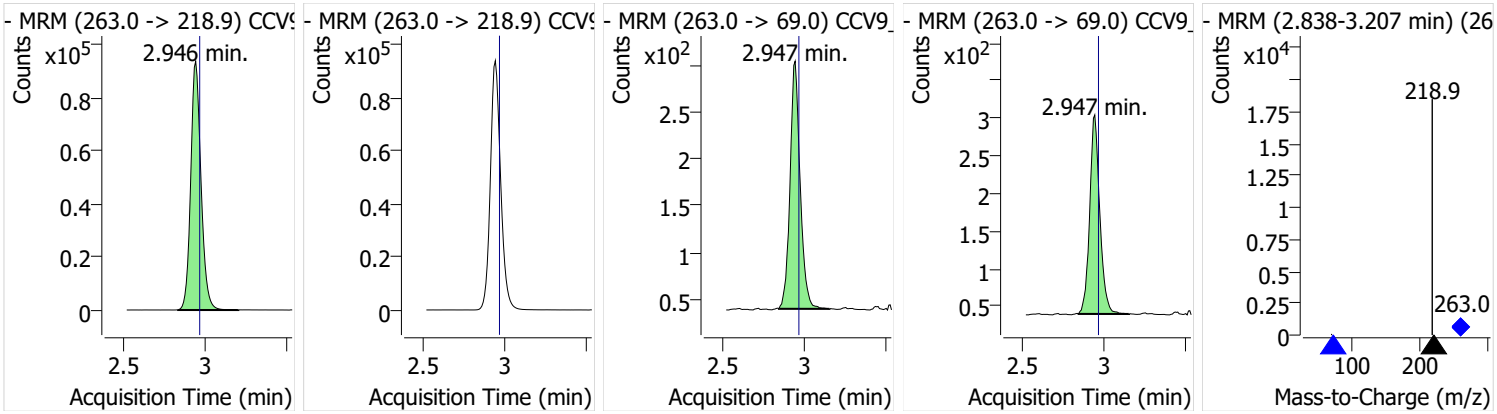

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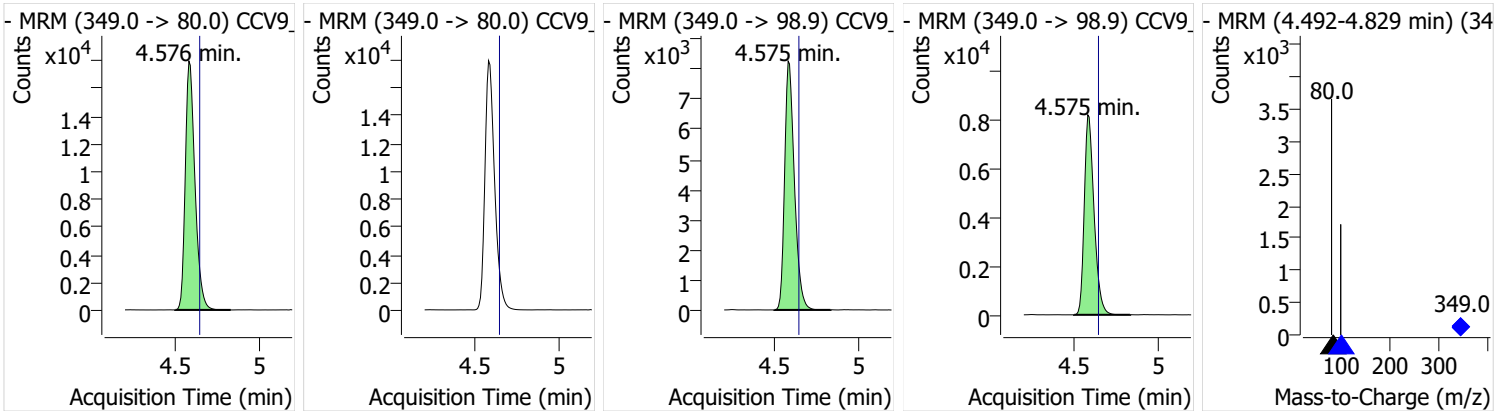

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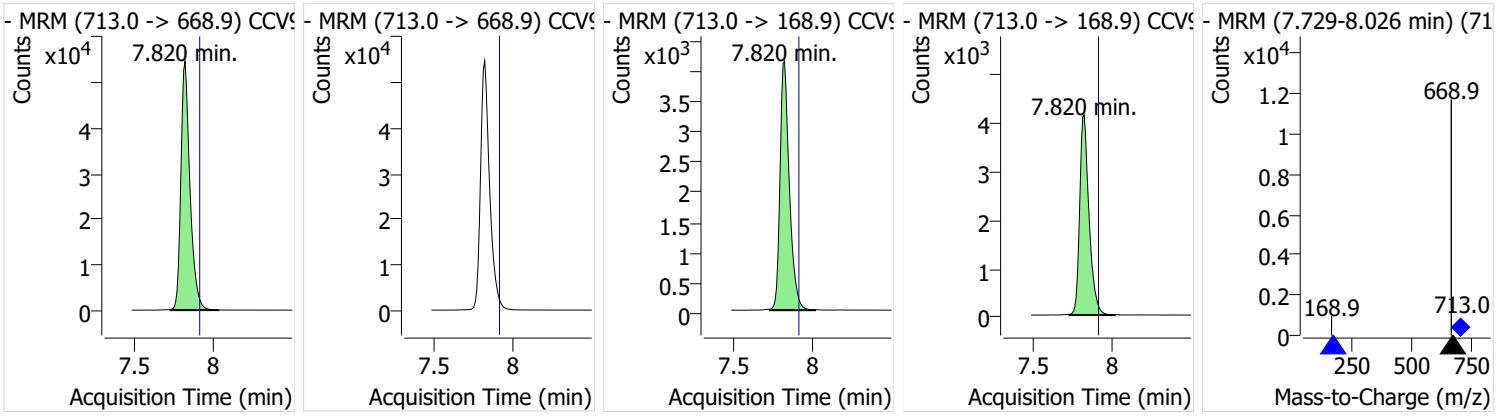

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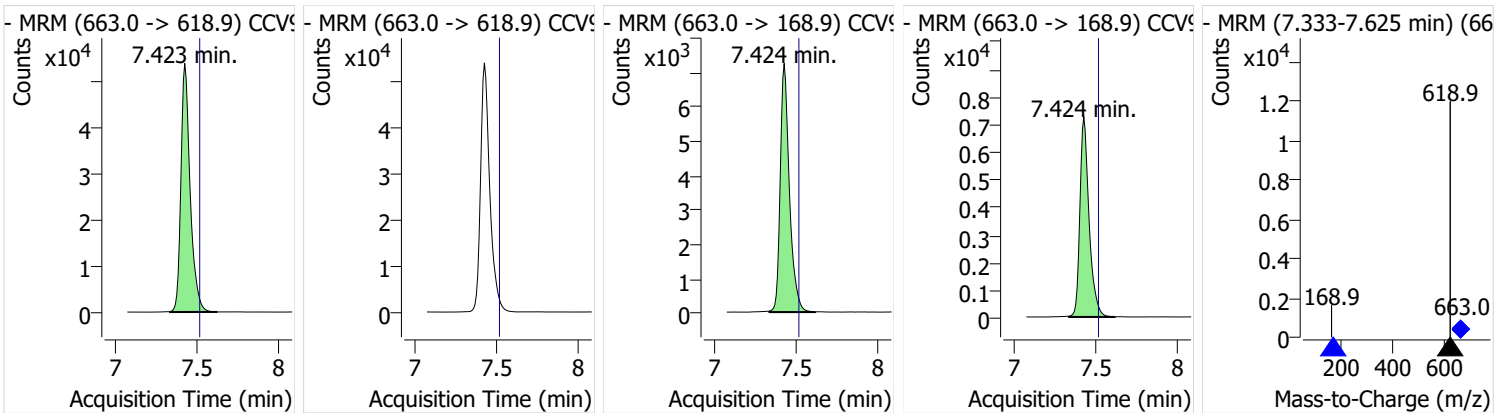

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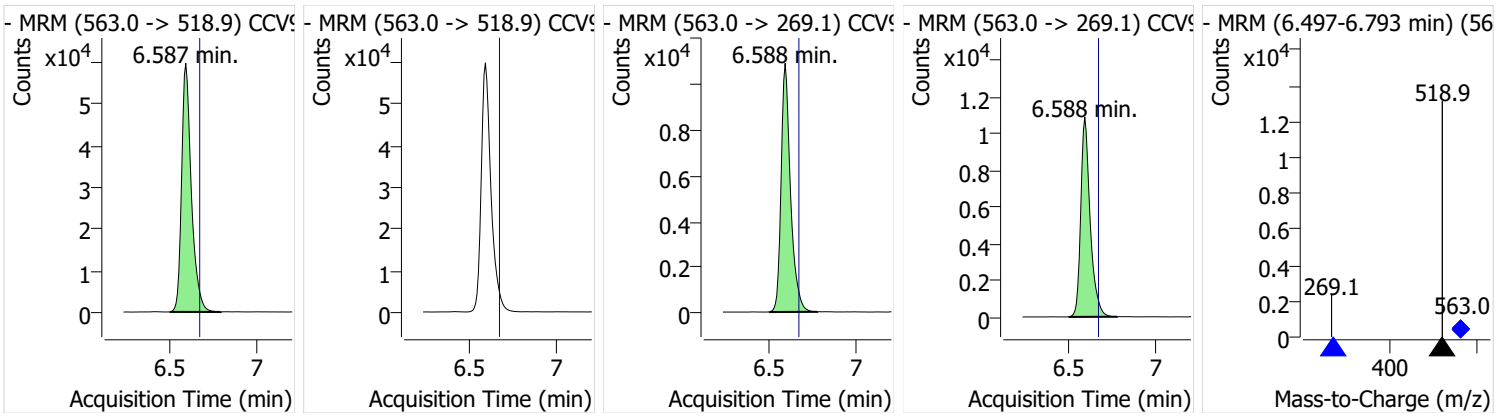
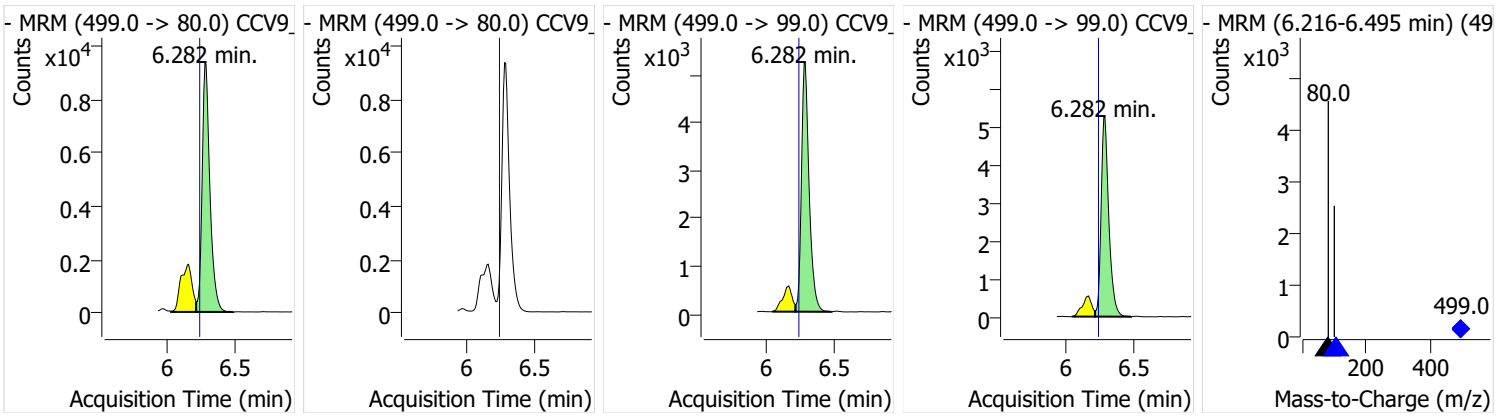
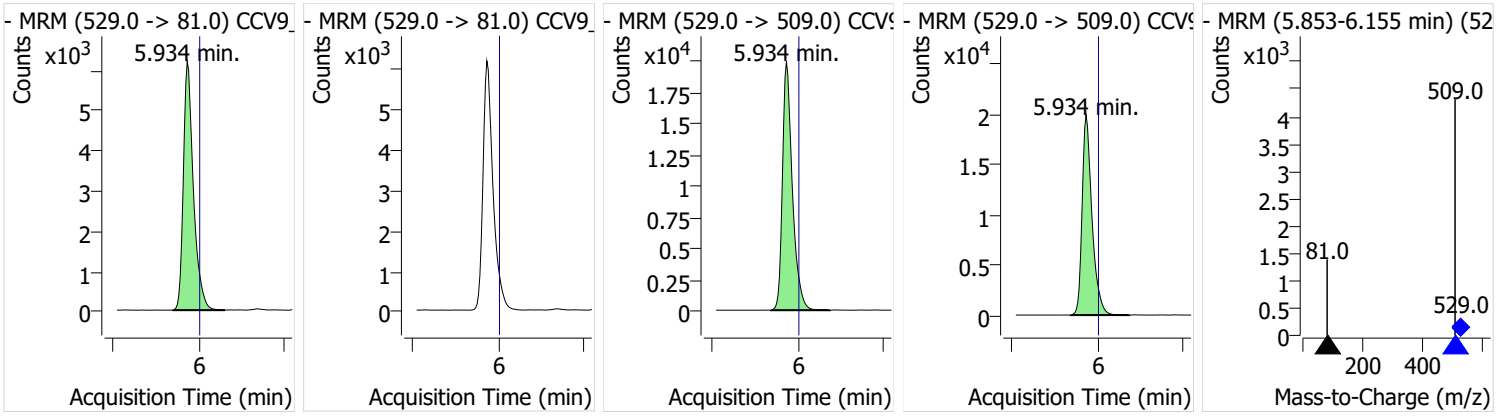


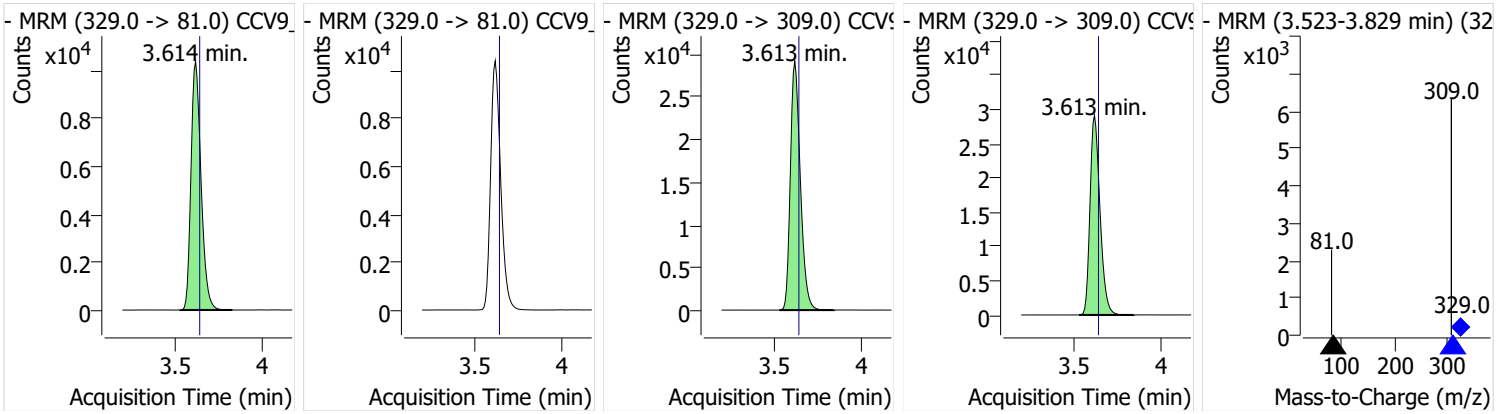
TDCA



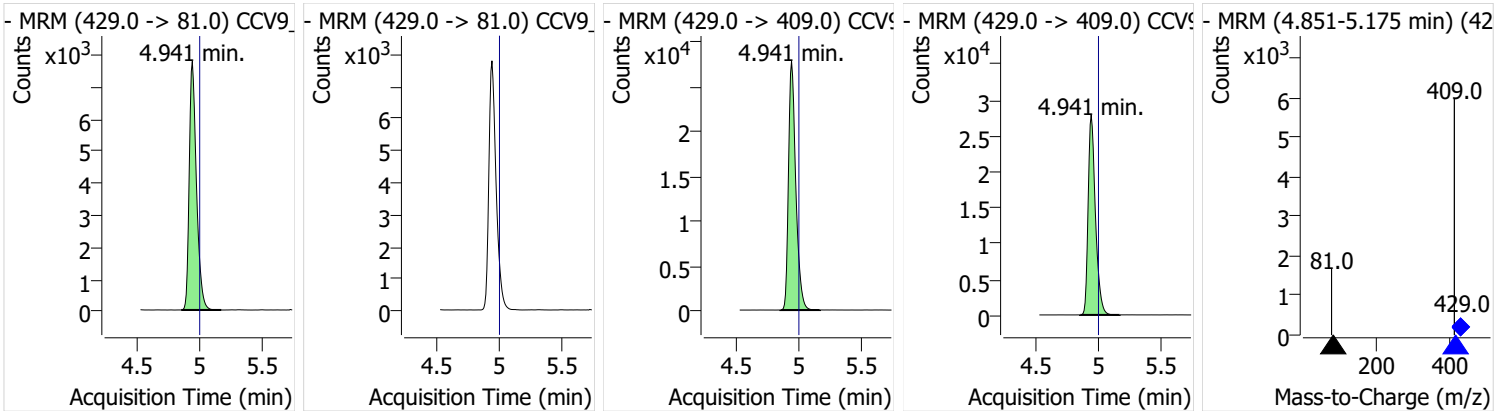
13C2-8:2FTS



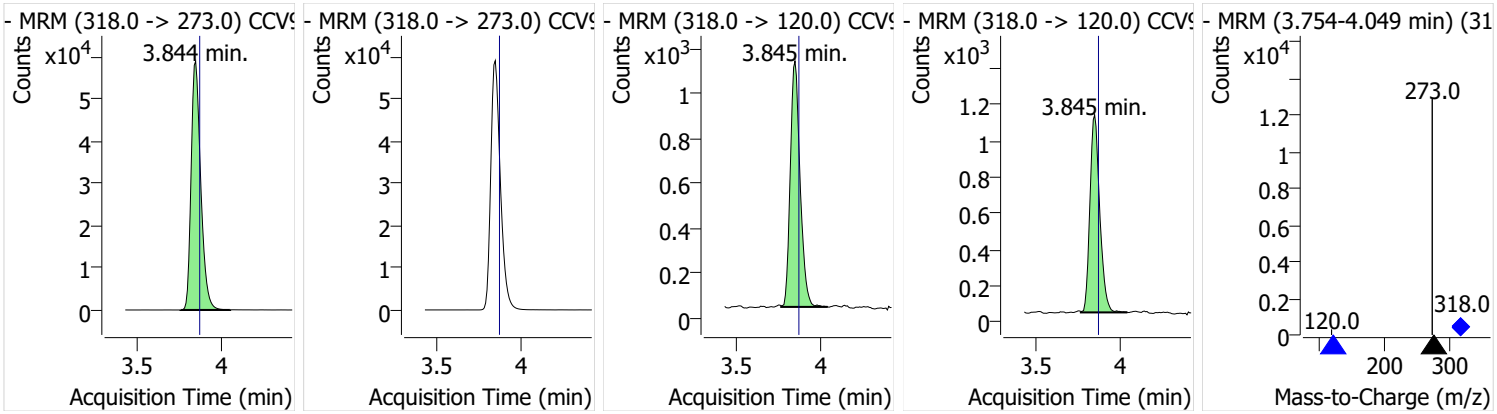
13C2-4:2FTS



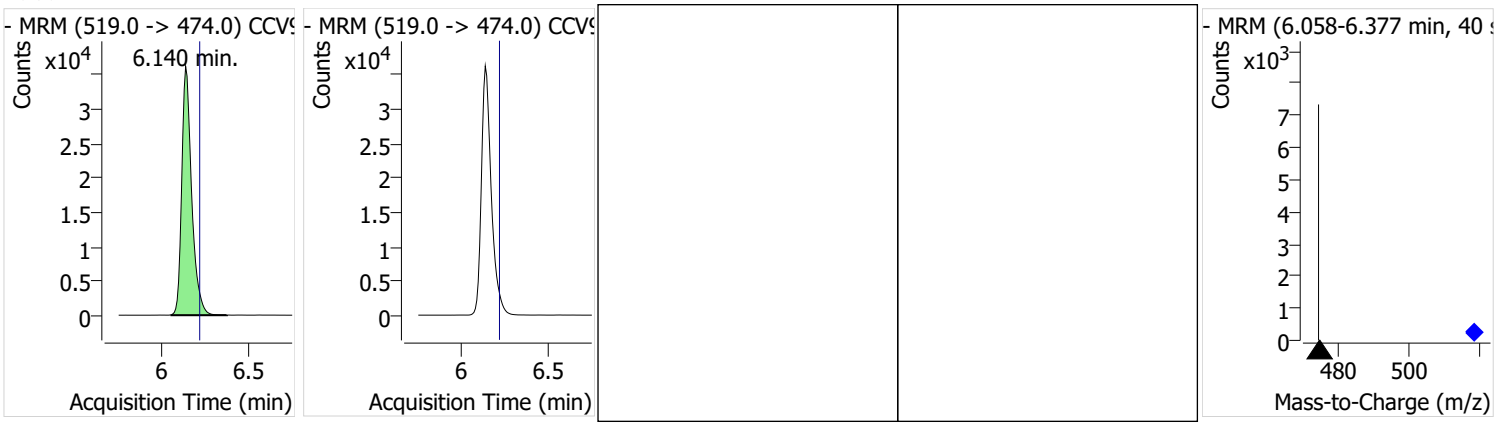
13C2-6:2FTS



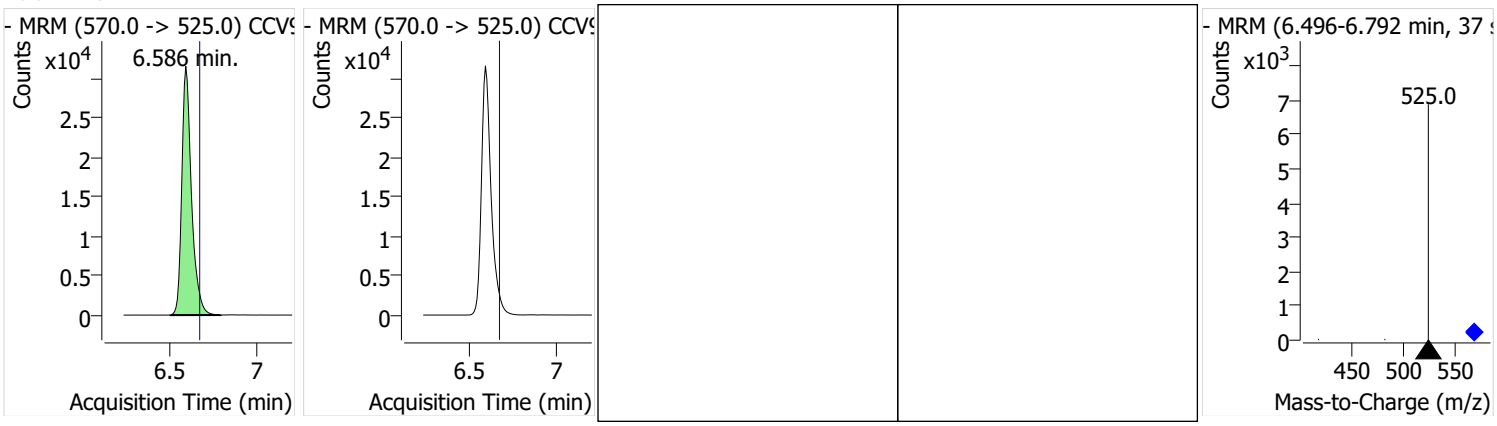
13C5-PFHxA



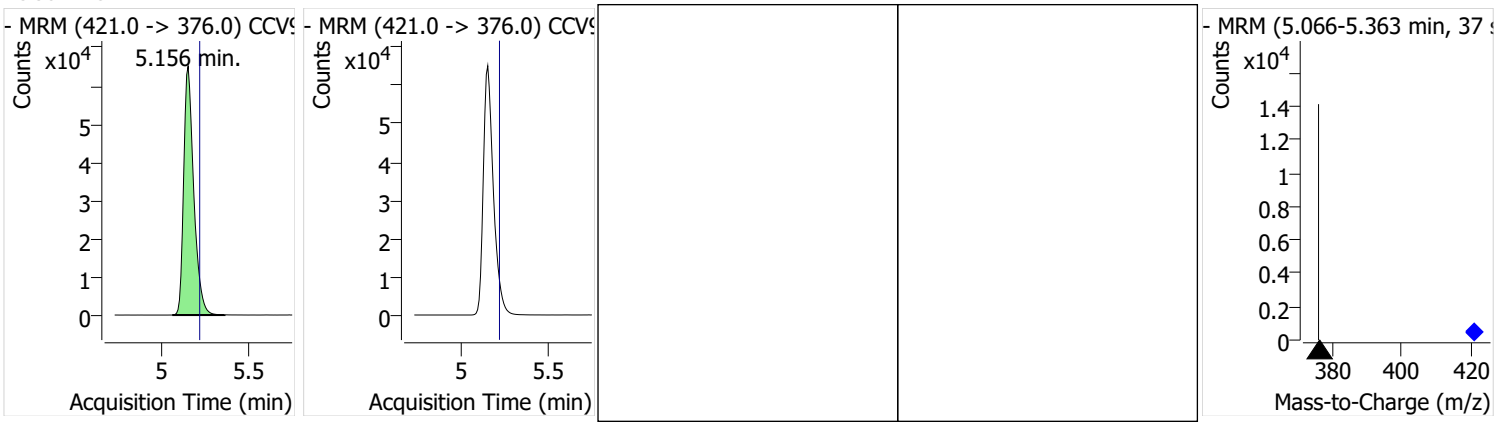
13C6-PFDA



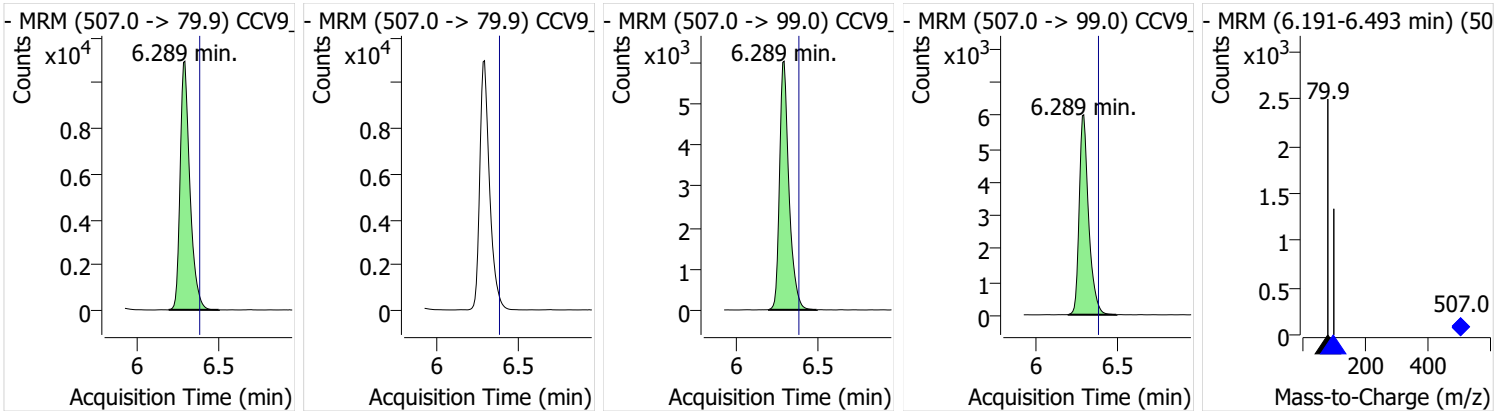
13C7-PFUnA



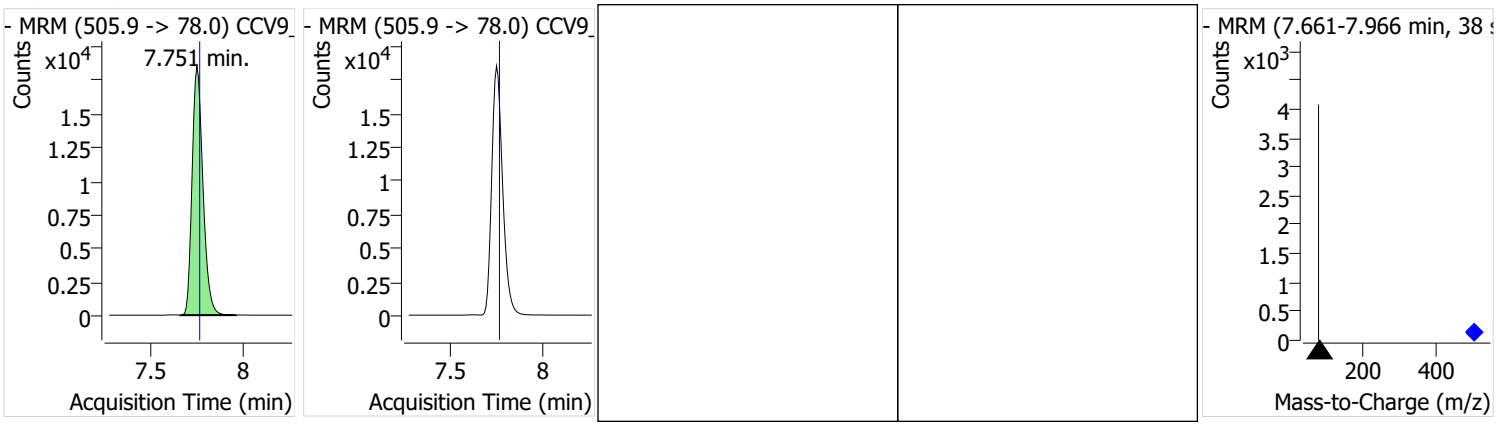
13C8-PFOA



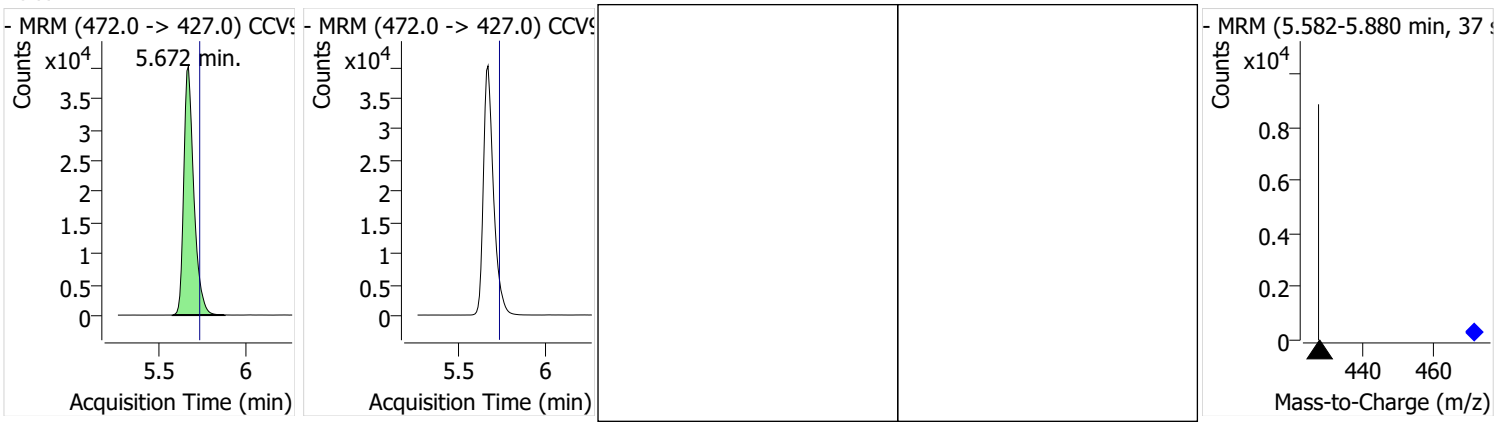
13C8-PFOS



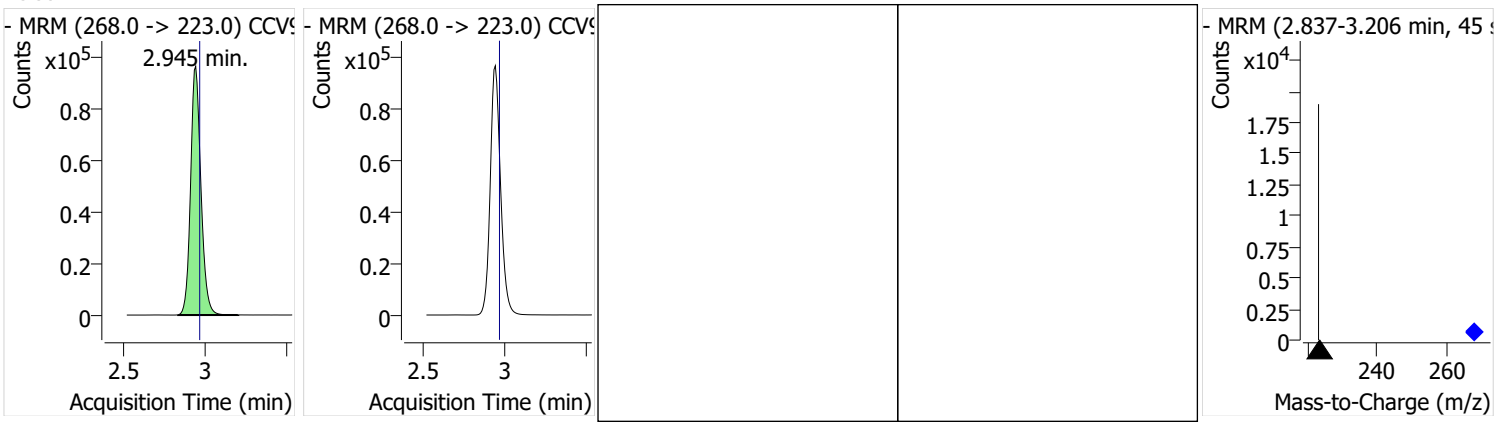
13C8-PFOSA



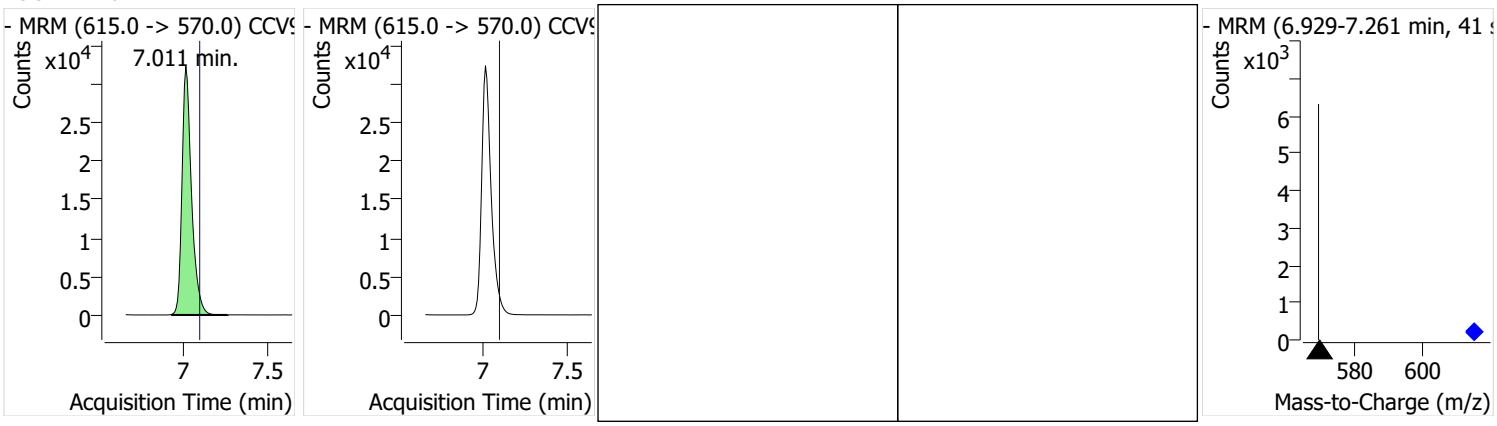
13C9-PFNA



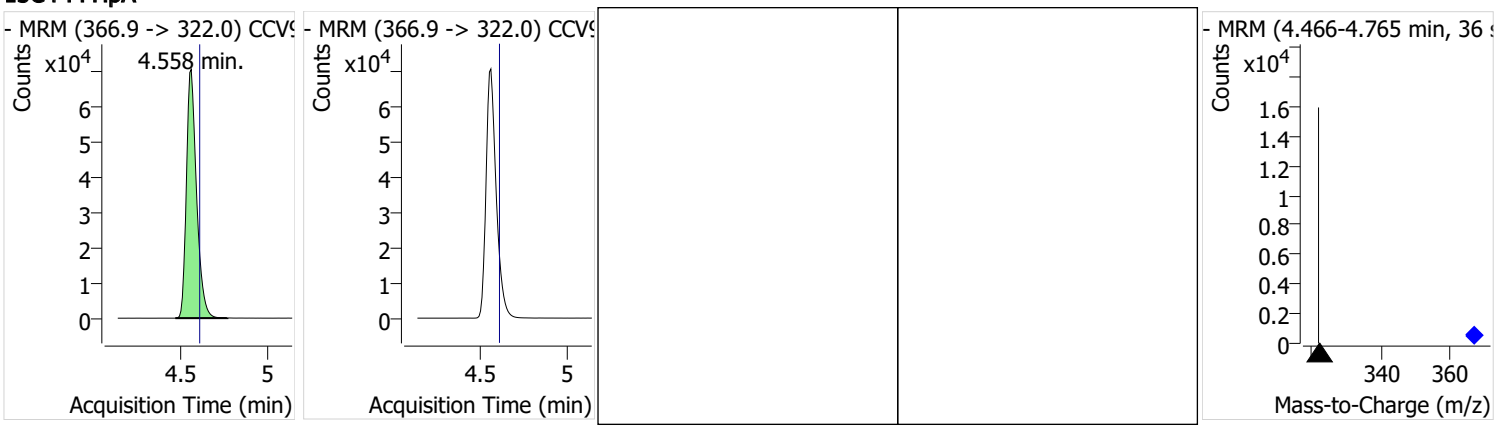
13C5-PFPeA



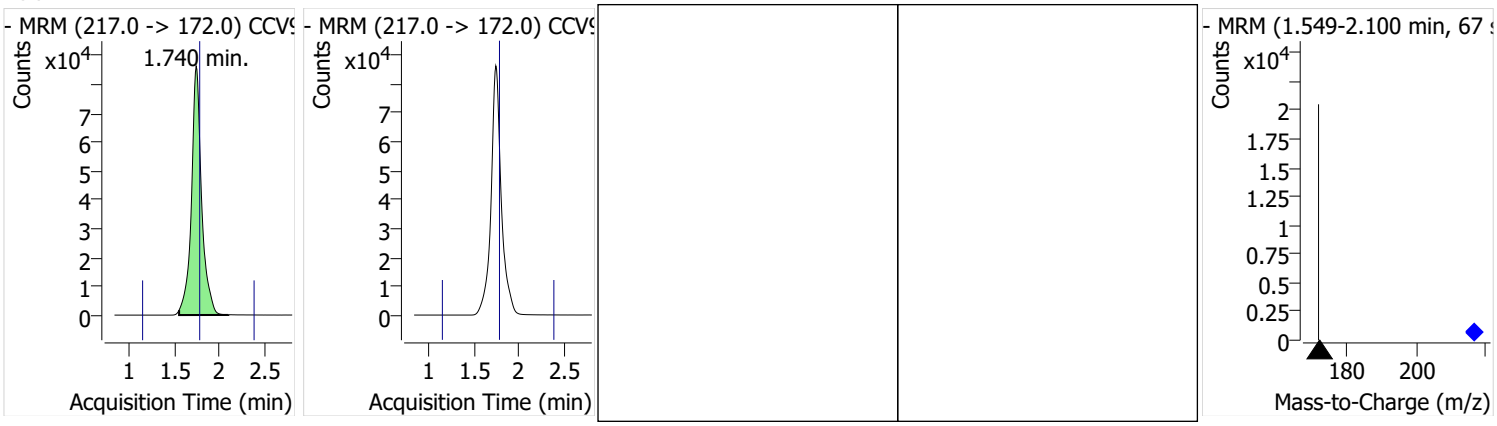
13C2-PFDoA



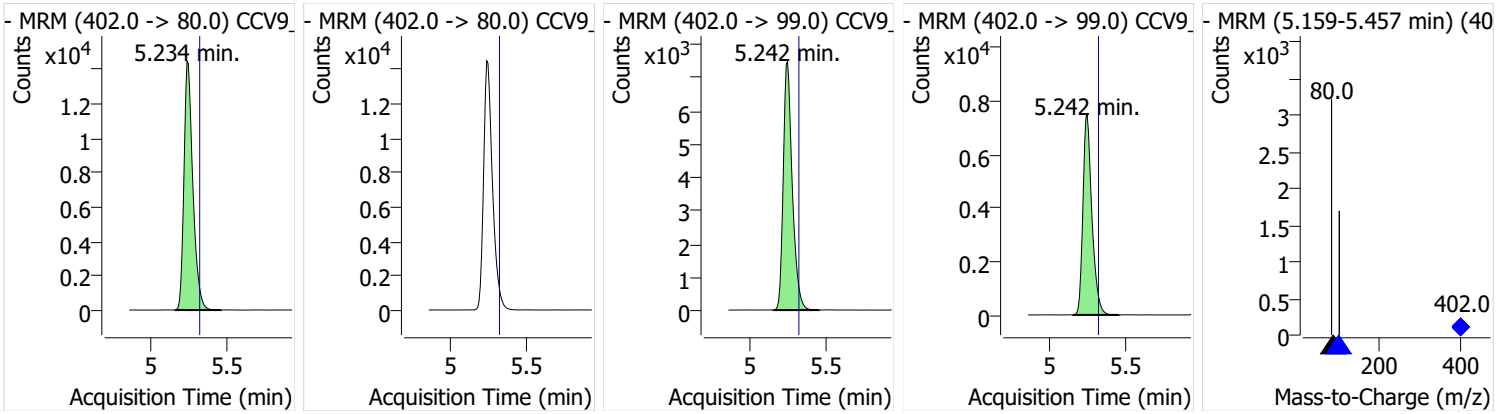
13C4-PFHpA



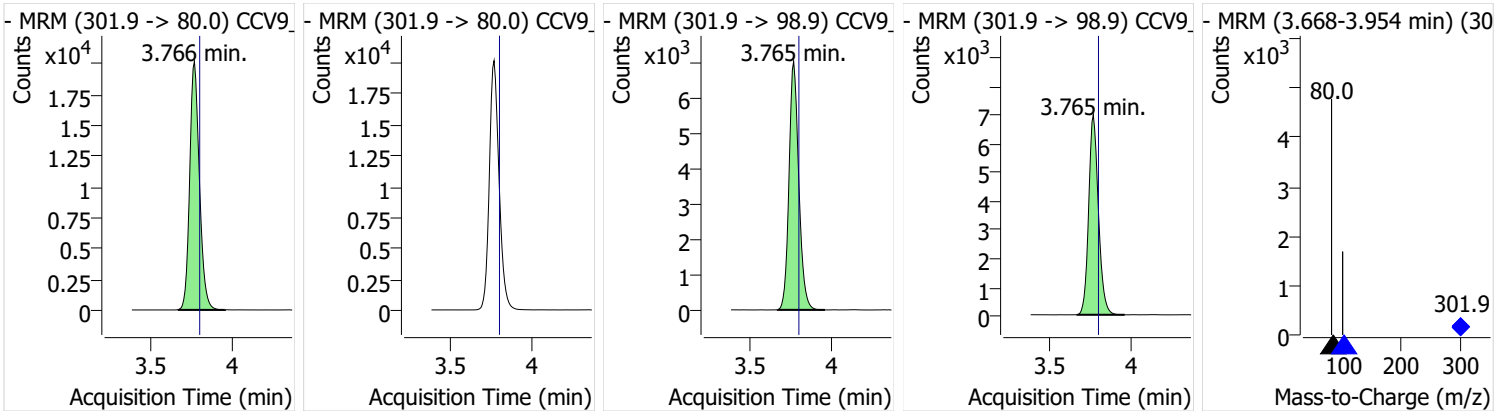
13C4-PFBA



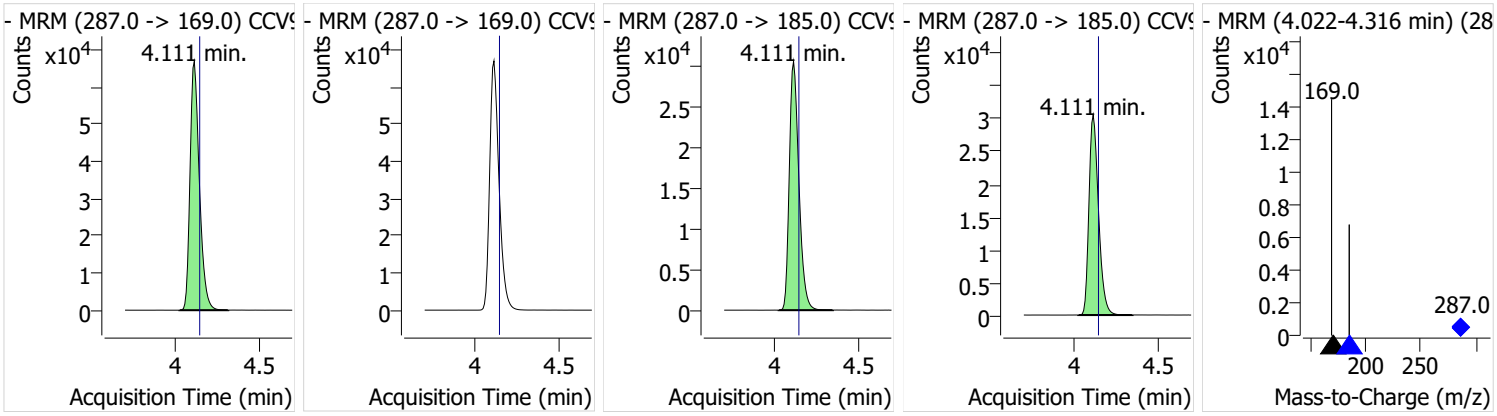
13C3-PFHxS



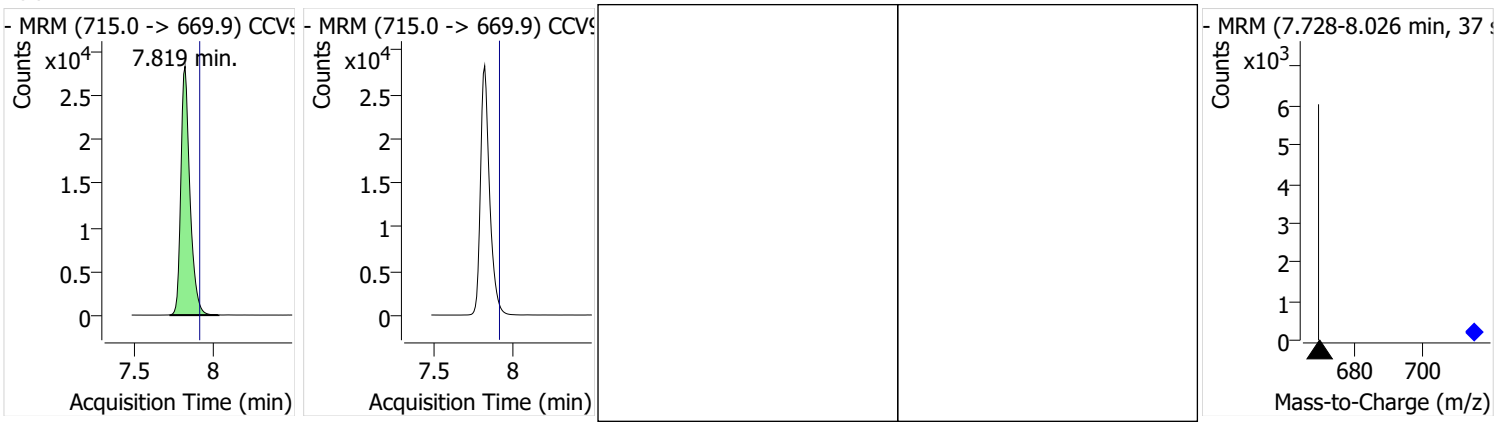
13C3-PFBS



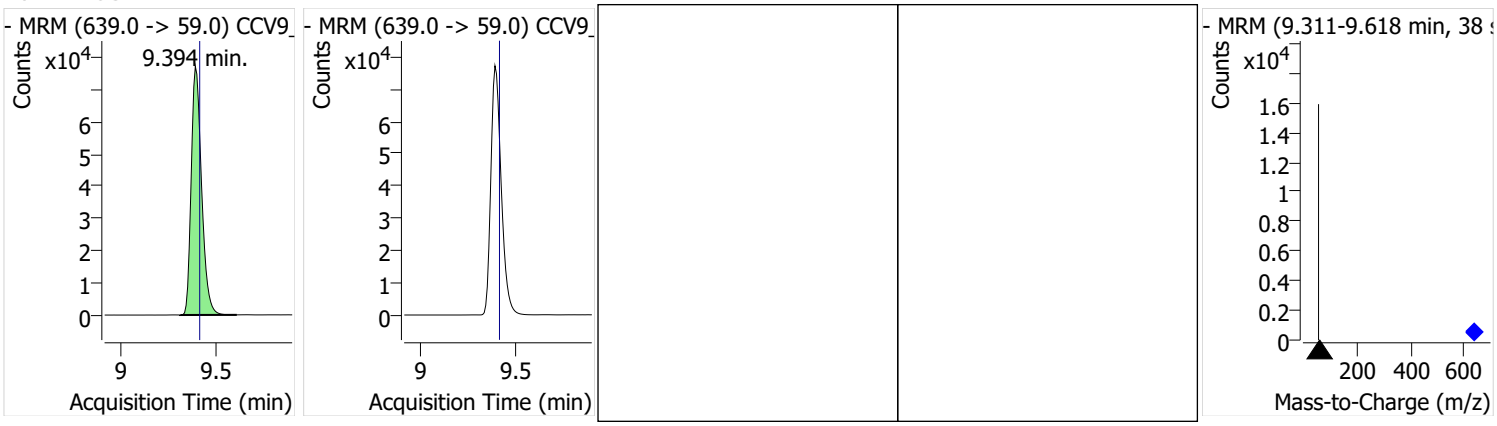
13C3-HFPODA



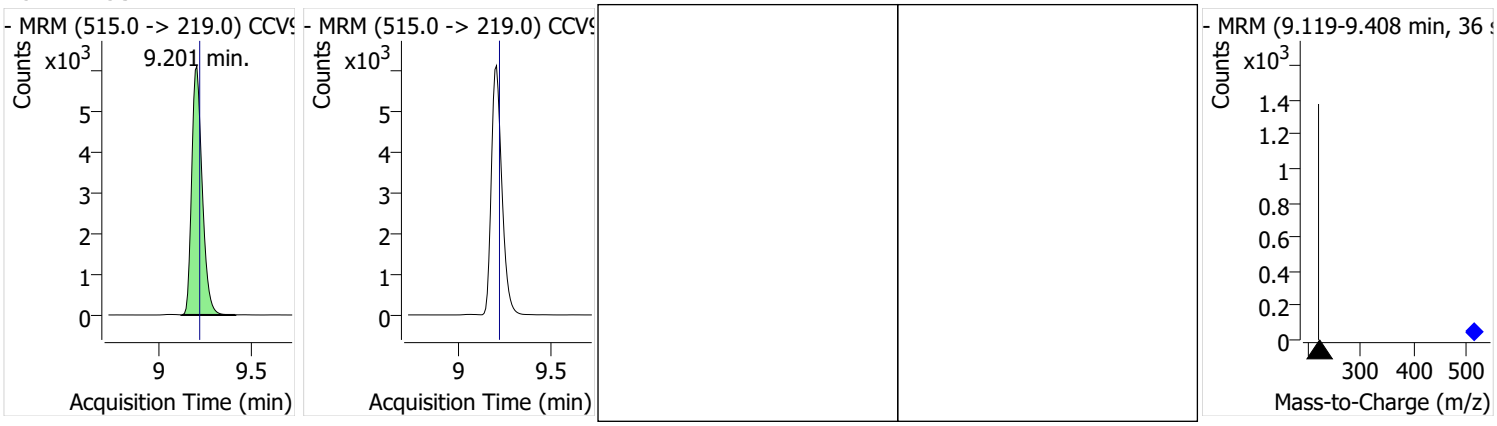
13C2-PFTeDA



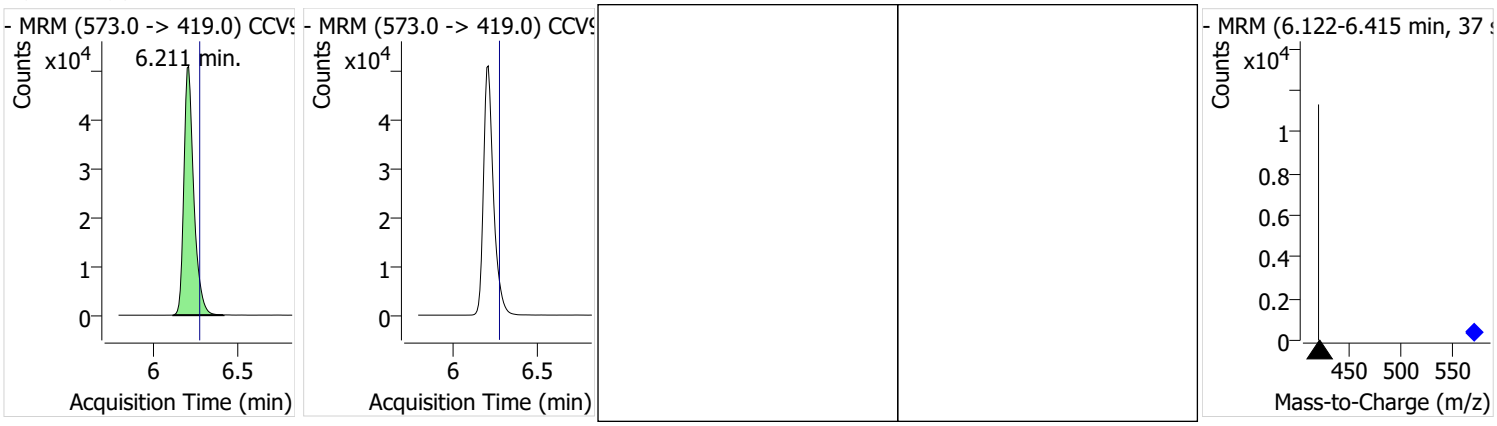
D9-NEtFOSE



D3-NMeFOSA



D3-NMeFOSAA



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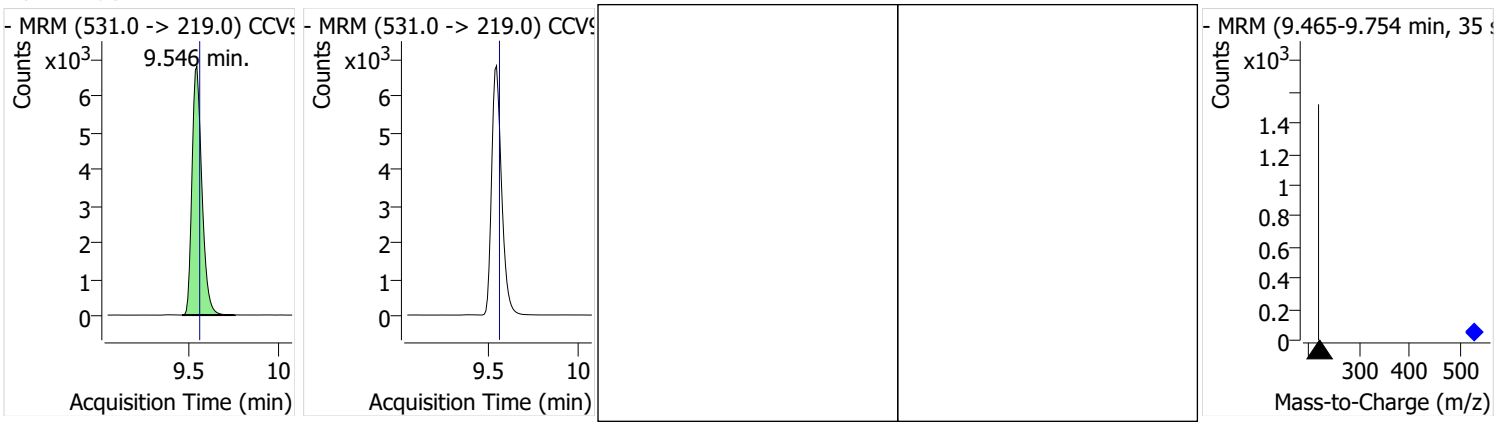
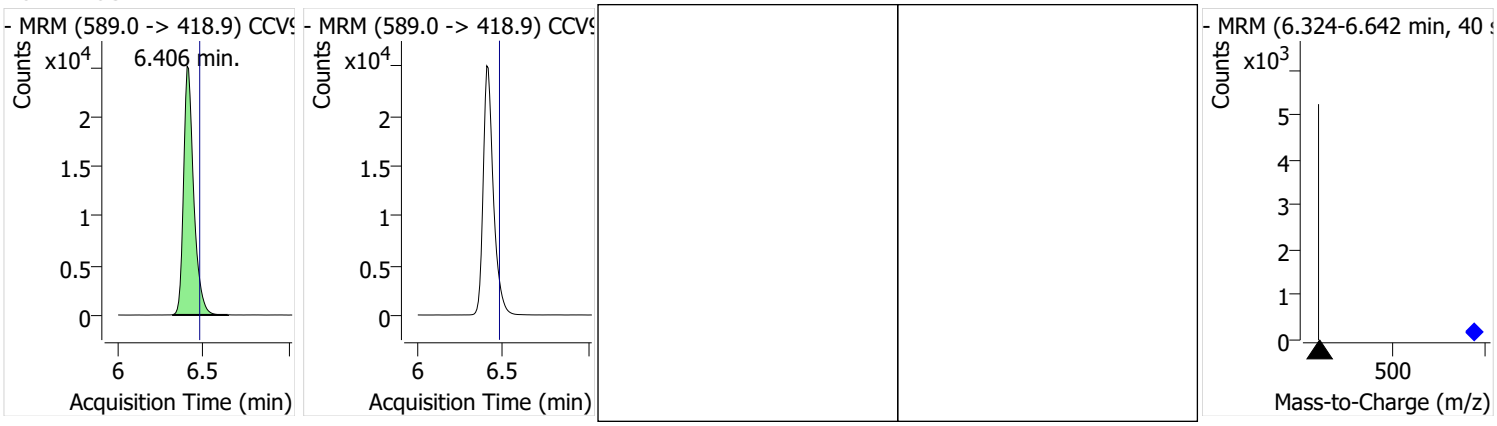
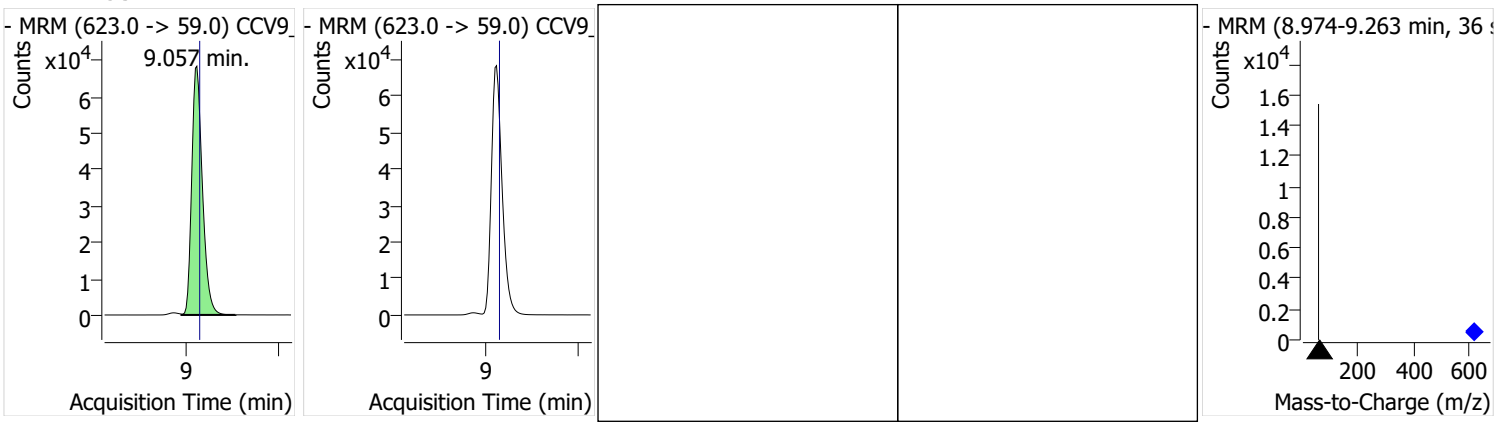


D5-NEtFOSAA



D7-NMeFOSE



7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

Draft Method 1633

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	QQQ5	Calibration:	2400593
Lab File ID:	CCV1_1633_052824.d	Calibration Date:	05/28/24 00:00
Sequence:	S105135	Injection Date:	05/28/24
Lab Sample ID:	S105135-CCV1	Injection Time:	13:24

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Perfluorobutanoic acid (PFBA)	A	0.400	0.355	0.9055443	0.8046792		-11.1	30
Perfluoropentanoic acid (PFPeA)	A	0.200	0.167	0.985154	0.8210913		-16.7	30
Perfluorohexanoic acid (PFHxA)	A	0.100	0.0851	0.9796289	0.8336997		-14.9	30
Perfluoroheptanoic acid (PFHpA)	A	0.100	0.0864	1.035117	0.8943324		-13.6	30
Perfluorooctanoic acid (PFOA)	A	0.100	0.0765	1.147963	0.877828		-23.5	30
Perfluorononanoic acid (PFNA)	A	0.100	0.0863	0.9847549	0.8502433		-13.7	30
Perfluorodecanoic acid (PFDA)	A	0.100	0.0804	0.9791746	0.7872987		-19.6	30
Perfluoroundecanoic acid (PFUnA)	A	0.100	0.0814	0.96917	0.7889913		-18.6	30
Perfluorododecanoic acid (PFDoA)	A	0.100	0.0852	1.003722	0.855231		-14.8	30
Perfluorotridecanoic acid (PFTrDA)	A	0.100	0.0798	1.039237	0.8295465		-20.2	30
Perfluorotetradecanoic acid (PFTeDA)	A	0.100	0.0871	0.9678259	0.842682		-12.9	30
Perfluorobutanesulfonic acid (PFBS)	A	0.0888	0.0781	1.179363	1.037994		-12.0	30
Perfluoropentanesulfonic acid (PFPeS)	A	0.0940	0.0853	1.354494	1.228931		-9.3	30
Perfluorohexanesulfonic acid (PFHxS)	A	0.0915	0.0746	1.191169	0.9724871		-18.4	30
Perfluoroheptanesulfonic acid (PFHpS)	A	0.0952	0.0858	1.20285	1.082167		-10.0	30
Perfluorooctanesulfonic acid (PFOS)	A	0.0928	0.0834	1.211825	1.089635		-10.1	30
Perfluorononanesulfonic acid (PFNS)	A	0.0962	0.0853	1.076868	0.9552294		-11.3	30
Perfluorodecanesulfonic acid (PFDS)	A	0.0965	0.0830	0.8744912	0.752499		-14.0	30
Perfluorododecanesulfonic acid (PFDoS)	A	0.0970	0.0824	0.6106218	0.5182472		-15.1	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	A	0.375	0.323	3.142915	2.705821		-13.9	30

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CONTINUING CALIBRATION VERIFICATION

Draft Method 1633

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	QQQ5	Calibration:	2400593
Lab File ID:	CCV1_1633_052824.d	Calibration Date:	05/28/24 00:00
Sequence:	S105135	Injection Date:	05/28/24
Lab Sample ID:	S105135-CCV1	Injection Time:	13:24

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	A	0.380	0.320	2.842618	2.397462		-15.7	30
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	A	0.385	0.292	1.79241	1.362914		-24.0	30
Perfluorooctanesulfonamide (PFOSA)	A	0.100	0.0910	1.076938	0.9804667		-9.0	30
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	A	0.100	0.0839	1.173375	0.98397		-16.1	30
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	A	0.100	0.0855	1.323332	1.130915		-14.5	30
N-MeFOSAA (NMeFOSAA)	A	0.100	0.0815	0.3646716	0.2973101		-18.5	30
N-EtFOSAA (NEtFOSAA)	A	0.100	0.0765	1.057171	0.8085317		-23.5	30
N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	A	1.00	0.855	1.119899	0.9577699		-14.5	30
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	A	1.00	0.869	1.148085	0.9977484		-13.1	30
Hexafluoropropylene oxide dimer acid (HFPO-DA)	A	0.400	0.333	0.8537594	0.7101098		-16.8	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	A	0.378	0.307	7.516548	6.101733		-18.8	30
9Cl-PF3ONS (F53B Minor)	A	0.375	0.322	5.656091	4.875479		-13.8	30
11Cl-PF3OUdS (F53B Major)	A	0.378	0.306	3.784009	3.062795		-19.1	30
3-Perfluoropropyl propanoic acid (FPrPA)(3:3FTCA)	A	1.00	0.851	4.394286E-02	3.738019E-02		-14.9	30
2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	A	5.00	3.97	0.1283846	0.1019593		-20.6	30
3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTCA)	A	5.00	3.85	0.1607822	0.1237785		-23.0	30
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	A	0.178	0.157	1.467067	1.293823		-11.8	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	A	0.200	0.169	6.968996E-02	5.880792E-02		-15.6	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	A	0.200	0.170	0.6583079	0.5586011		-15.1	30
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	A	0.200	0.153	7.003551E-02	5.341179E-02		-23.7	30
13C4-PFBA	A	10.0	10.5	1.092274	1.152281		5.5	30

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CONTINUING CALIBRATION VERIFICATION

Draft Method 1633

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	QQQ5	Calibration:	2400593
Lab File ID:	CCV1_1633_052824.d	Calibration Date:	05/28/24 00:00
Sequence:	S105135	Injection Date:	05/28/24
Lab Sample ID:	S105135-CCV1	Injection Time:	13:24

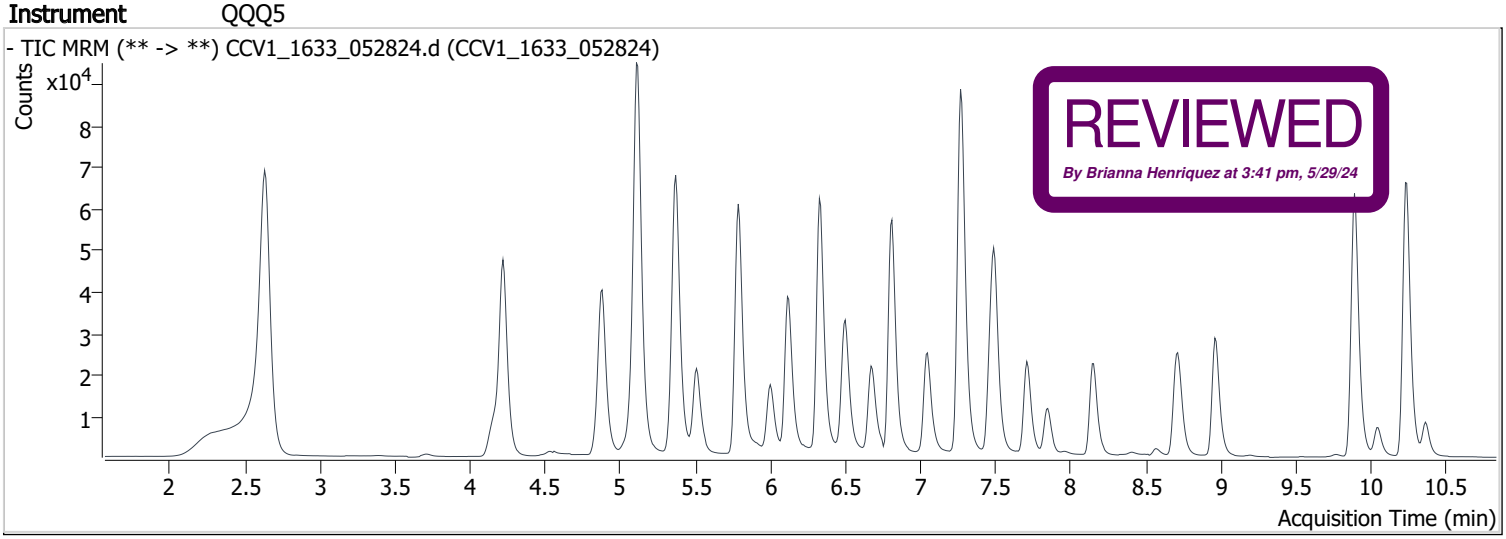
		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
13C5-PFPeA	A	5.00	5.03	0.7854588	0.789823		0.6	30
13C5-PFHxA	A	2.50	2.69	1.059253	1.137808		7.4	30
13C4-PFHpA	A	2.50	2.75	1.381858	1.51761		9.8	30
13C8-PFOA	A	2.50	2.68	8.180126	8.771347		7.2	30
13C9-PFNA	A	1.25	1.32	0.7691169	0.8114249		5.5	30
13C6-PFDA	A	1.25	1.36	0.9953557	1.081134		8.6	30
13C7-PFUnA	A	1.25	1.31	0.9305727	0.9785523		5.2	30
13C2-PFDoA	A	1.25	1.29	0.9604648	0.9912359		3.2	30
13C2-PFTeDA	A	1.25	1.23	1.295151	1.27018		-1.9	30
13C3-PFBS	A	2.50	2.67	1.484657	1.584579		6.7	30
13C3-PFHxS	A	2.50	2.69	1.025978	1.103391		7.5	30
13C8-PFOS	A	2.50	2.59	0.9272679	0.9603492		3.6	30
13C2-4:2FTS	A	5.00	5.14	1.272731	1.308706		2.8	30
13C2-6:2FTS	A	5.00	5.05	1.131247	1.143045		1.0	30
13C2-8:2FTS	A	5.00	4.82	0.6827405	0.6584817		-3.6	30
13C8-PFOSA	A	2.50	2.71	1.675551	1.818372		8.5	30
D3-NMeFOSA	A	2.50	2.50	0.547367	0.5473648		-0.0004	30
D5-NEtFOSA	A	2.50	2.55	0.5572248	0.5689785		2.1	30
D3-NMeFOSAA	A	5.00	5.44	1.857945	2.019737		8.7	30
D5-NEtFOSAA	A	5.00	5.38	0.9301541	1.000477		7.6	30
D7-NMeFOSE	A	25.0	27.1	0.50654	0.5495264		8.5	30
D9-NEtFOSE	A	25.0	26.4	0.5420359	0.5722527		5.6	30
13C3-HFPO-DA	A	10.0	10.5	0.3037858	0.3180162		4.7	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Quantitative Analysis Sample Report

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CCVS.batch.bin		
Analysis Time	5/29/2024 11:23 AM	**Last Calib Update**	5/29/2024 8:40 AM
Acq. Time	5/28/2024 1:24 PM	**Data File**	CCV1_1633_052824.d
Sample Type	CC	**Sample Name**	CCV1_1633_052824
Dilution	1	**Acq. Method**	1633_ACQUISITION.m
Sample Comment	E#24E0154	**Processing method**	1633_052824.m
Instrument	QQQ5		



Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
11Cl-PF3OUdS	8.732	19877	3523.95		13C3-HFPODA - ISTD	5.375	171685	0.3062	ng/ml			
633.0 -> 453.0			1526.29	20.3								
3:3FTCA	3.716	1594	1941.19		13C5-PFPeA - ISTD	4.220	213198	0.8507	ng/ml			
241.0 -> 117.0			205.37	52.8								
4:2FTS	4.879	7874	4371.26		13C2-4:2FTS - ISTD	4.879	38800	0.3225	ng/ml			
327.0 -> 80.9			627.64	36.1								
5:3FTCA	5.509	31315	4745.08		13C5-PFHxA - ISTD	5.109	153565	3.9709	ng/ml			
341.0 -> 217.0			3792.82	92.8								
6:2FTS	6.114	5303	3887.18		13C2-6:2FTS - ISTD	6.114	29107	0.3205	ng/ml			
427.0 -> 80.9			479.67	37.8								
7:3FTCA	6.674	38016	2756.80		13C5-PFHxA - ISTD	5.109	153565	3.8493	ng/ml			
441.0 -> 317.0			3381.65	93.6								
8:2FTS	7.047	2861	1242.15		13C2-8:2FTS - ISTD	7.047	27264	0.2923	ng/ml			
527.0 -> 81.0			489.90	60.5								
9Cl-PF3ONS	7.851	31389	1797.90		13C3-HFPODA - ISTD	5.375	171685	0.3221	ng/ml			
533.0 -> 353.0			161.42	25.3								
ADONA	6.004	39598	2515.83		13C3-HFPODA - ISTD	5.375	171685	0.3071	ng/ml			
377.0 -> 85.1			2537.34	38.9								
HFPO-DA	5.376	4877	1035.45		13C3-HFPODA - ISTD	5.375	171685	0.3327	ng/ml			
285.0 -> 184.9			175.13	52.4								
NEtFOSA	10.373	1048	1405.66		D5-NEtFOSA - ISTD	10.362	23171	0.0855	ng/ml			

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
526.0 -> 219.0			1134.22	111.5								
NEtFOSAA	7.470	1318	225.49		D5-NEtFOSAA - ISTD	7.461	81487	0.0765	ng/ml	✔	3	AMS 05/29/24
584.0 -> 526.0			109.63	78.5								
NEtFOSE	10.253	9301	5408.28		D9-NEtFOSE - ISTD	10.227	233046	0.8691	ng/ml			
NFDHA	5.032	656	491.19		13C5-PFHxA - ISTD	5.109	153565	0.1525	ng/ml			
295.0 -> 85.0			80.36	33.3								
NMeFOSA	10.053	877	691.62		D3-NMeFOSA - ISTD	10.043	22291	0.0839	ng/ml			
512.0 -> 219.0			772.22	89.9								
NMeFOSAA	7.283	978	215.25		D3-NMeFOSAA - ISTD	7.274	164504	0.0815	ng/ml	✔	3	AMS 05/29/24
570.0 -> 418.9			593.76	66.0								
NMeFOSE	9.915	8574	3982.35		D7-NMeFOSE - ISTD	9.890	223790	0.8552	ng/ml			
PFBA	2.637	8549	313.14		13C4-PFBA - ISTD	2.631	265588	0.3554	ng/ml	✔	3	AMS 05/29/24
PFBS	5.121	2427	193.99		13C3-PFBS - ISTD	5.129	65830	0.0781	ng/ml			
298.9 -> 98.8			302.78	40.7								
PFDA	7.262	5060	137.53		13C6-PFDA - ISTD	7.261	80333	0.0804	ng/ml			
513.0 -> 219.0			628.49	20.1								
PFDoA	8.153	5039	198.38		13C2-PFDoA - ISTD	8.145	73653	0.0852	ng/ml			
613.0 -> 319.0			330.68	17.1								
PFDoS	9.197	786	462.90		13C8-PFOS - ISTD	7.500	39109	0.0824	ng/ml			
698.9 -> 99.0			526.63	70.5								
PFDS	8.411	1136	196.72		13C8-PFOS - ISTD	7.500	39109	0.0830	ng/ml			
599.0 -> 98.8			313.33	64.8								
PFEESA	5.511	14146	1626.57		13C5-PFHxA - ISTD	5.109	153565	0.1571	ng/ml			
315.0 -> 83.0			248.78	8.1								
PFHpA	5.789	7327	208.32		13C4-PFHpA - ISTD	5.789	204826	0.0864	ng/ml			
362.9 -> 169.0			354.20	13.2								
PFHpS	7.019	1612	239.25		13C8-PFOS - ISTD	7.500	39109	0.0858	ng/ml			
449.0 -> 98.8			222.26	50.9								
PFHxA	5.111	5121	131.40		13C5-PFHxA - ISTD	5.109	153565	0.0851	ng/ml			
313.0 -> 118.9			42.55	*4.3								
PFHxS	6.505	1632	193.23		13C3-PFHxS - ISTD	6.504	45840	0.0746	ng/ml	✔	3	AMS 05/29/24
398.9 -> 99.0			155.15	46.6								
PFMBA	4.538	4764	2638.65		13C5-PFPeA - ISTD	4.220	213198	0.1697	ng/ml			
PFMPA	3.391	502	216.89		13C5-PFPeA - ISTD	4.220	213198	0.1688	ng/ml			
PFNA	6.804	5833	151.39		13C9-PFNA - ISTD	6.812	85757	0.0863	ng/ml			
463.0 -> 219.0			254.96	22.5								
PFNS	7.967	1438	443.13		13C8-PFOS - ISTD	7.500	39109	0.0853	ng/ml			
549.0 -> 98.8			472.68	57.1								
PFOA	6.329	6464	61.16		13C8-PFOA - ISTD	6.328	184093	0.0765	ng/ml	✔	3	AMS 05/29/24
413.0 -> 169.0			514.00	28.3								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFOS	7.501	1582	257.91		13C8-PFOS - ISTD	7.500	39109	0.0834	ng/ml	✔	3	AMS 05/29/24
499.0 -> 99.0			194.45	52.2								
PFOSA	8.702	2904	22777.89		13C8-PFOSA - ISTD	8.709	74052	0.0910	ng/ml			
497.9 -> 478.0			474.86	1.7								
PFPeA	4.222	7002	543.45		13C5-PFPeA - ISTD	4.220	213198	0.1667	ng/ml			
263.0 -> 69.0			16.50	0.3								
PFPeS	5.906	2118	309.57		13C3-PFHxS - ISTD	6.504	45840	0.0853	ng/ml			
349.0 -> 98.9			111.15	38.0								
PFTeDA	8.959	6363	359.60		13C2-PFTeDA - ISTD	8.958	94380	0.0871	ng/ml			
713.0 -> 168.9			269.50	7.8								
PFTrDA	8.565	4888	389.41		13C2-PFDoA - ISTD	8.145	73653	0.0798	ng/ml			
663.0 -> 168.9			462.03	17.0								
PFUnA	7.710	4589	209.73		13C7-PFUnA - ISTD	7.709	72710	0.0814	ng/ml			
563.0 -> 269.1			256.36	28.0								
TDCA	5.442	6	10.84					-	ng/ml			
499.0 -> 99.0			3.43	*91.6								
13C2-8:2FTS	7.046	54712	78118.08		18O2-PFHxS	6.504	41544	4.8223	ng/ml			
529.0 -> 81.0			6807.90	49.8								
13C2-4:2FTS	4.878	108739	26229.14		18O2-PFHxS	6.504	41544	5.1413	ng/ml			
329.0 -> 81.0			8997.65	35.7								
13C2-6:2FTS	6.113	94974	38911.90		18O2-PFHxS	6.504	41544	5.0521	ng/ml			
429.0 -> 81.0			7951.87	30.6								
13C5-PFHxA	5.109	153565	36720.94		13C2-PFHxA	5.110	134966	2.6854	ng/ml			
318.0 -> 120.0			309.05	1.7								
13C6-PFDA	7.261	80333	8479.11		13C2-PFDA	7.262	74304	1.3577	ng/ml			
13C7-PFUnA	7.709	72710	28659.66		13C2-PFDA	7.262	74304	1.3144	ng/ml			
13C8-PFOA	6.328	184093	20310.31		13C4-PFOA	6.329	20988	2.6807	ng/ml			
13C8-PFOS	7.500	39109	4827.85		13C4-PFOS	7.501	40724	2.5892	ng/ml			
507.0 -> 99.0			4056.09	54.4								
13C8-PFOSA	8.709	74052	61775.45		13C4-PFOS	7.501	40724	2.7131	ng/ml			
13C9-PFNA	6.812	85757	8870.52		13C5-PFNA	6.812	105687	1.3188	ng/ml			
13C5-PFPeA	4.220	213198	25122.45		13C2-PFHxA	5.110	134966	5.0278	ng/ml			
13C2-PFDoA	8.145	73653	12500.11		13C2-PFDA	7.262	74304	1.2900	ng/ml			
13C4-PFHpA	5.789	204826	28268.23		13C2-PFHxA	5.110	134966	2.7456	ng/ml			
13C4-PFBA	2.631	263741	43563.91		13C3-PFBA	2.634	114443	10.5494	ng/ml	✔	3	AMS 05/29/24
13C3-PFHxS	6.504	45840	7519.01		18O2-PFHxS	6.504	41544	2.6886	ng/ml			

Quantitative Analysis Sample Report

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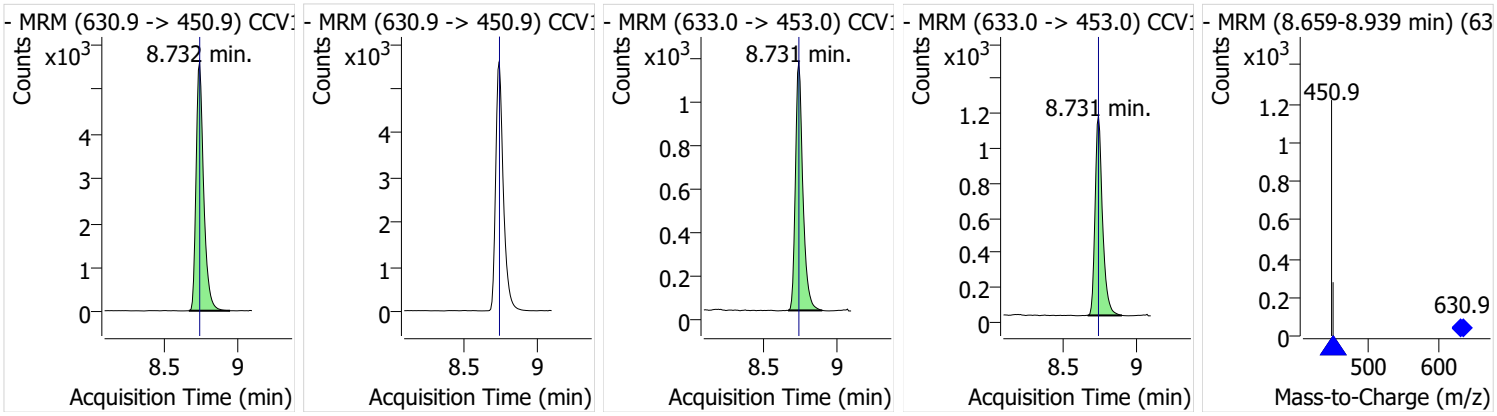
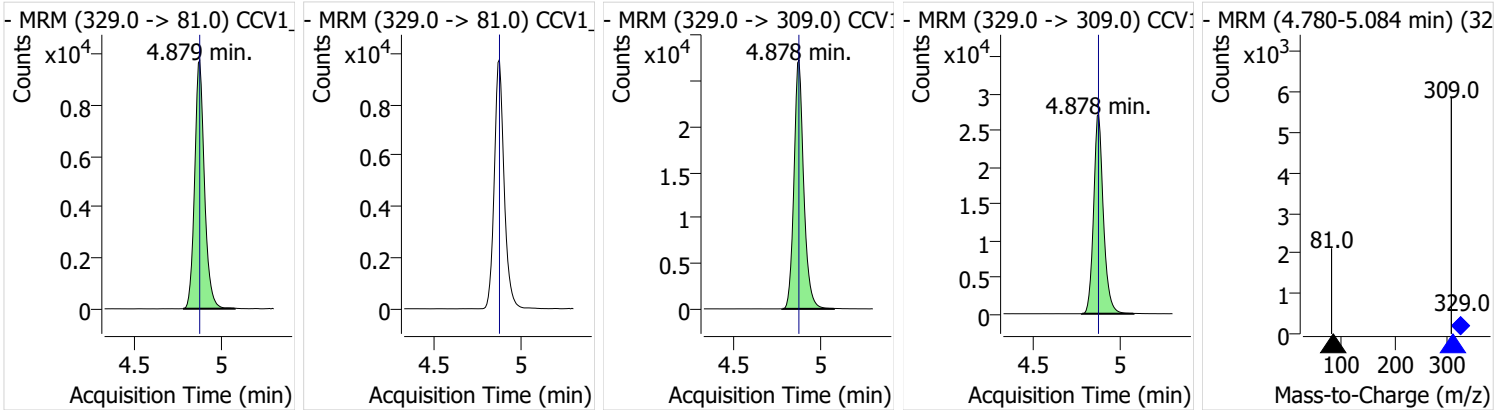
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
402.0 -> 99.0			23119.85	53.8								
13C3-PFBS	5.129	65830	12784.13		18O2-PFHxS	6.504	41544	2.6683	ng/ml			
301.9 -> 98.9			10305.99	37.4								
13C3-HFPODA	5.375	171685	47811.79		13C2-PFHxA	5.110	134966	10.4684	ng/ml			
287.0 -> 185.0			13397.42	45.7								
13C2-PFTeDA	8.958	94380	30926.55		13C2-PFDA	7.262	74304	1.2259	ng/ml			
D9-NEtFOSE	10.227	233046	49604.89		13C4-PFOS	7.501	40724	26.3937	ng/ml			
D3-NMeFOSA	10.043	22291	11179.55		13C4-PFOS	7.501	40724	2.5000	ng/ml			
D3-NMeFOSAA	7.274	164504	64001.29		13C4-PFOS	7.501	40724	5.4354	ng/ml			
D5-NEtFOSA	10.362	23171	5919.04		13C4-PFOS	7.501	40724	2.5527	ng/ml			
D5-NEtFOSAA	7.461	81487	10756.45		13C4-PFOS	7.501	40724	5.3780	ng/ml			
D7-NMeFOSE	9.890	223790	138916.49		13C4-PFOS	7.501	40724	27.1216	ng/ml			

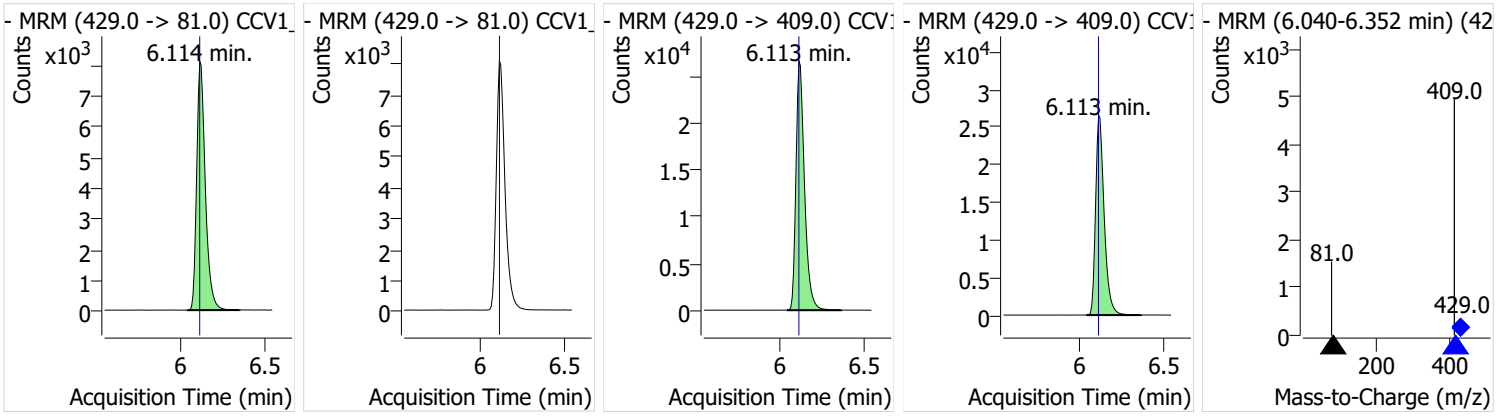
11Cl-PF3OUdS



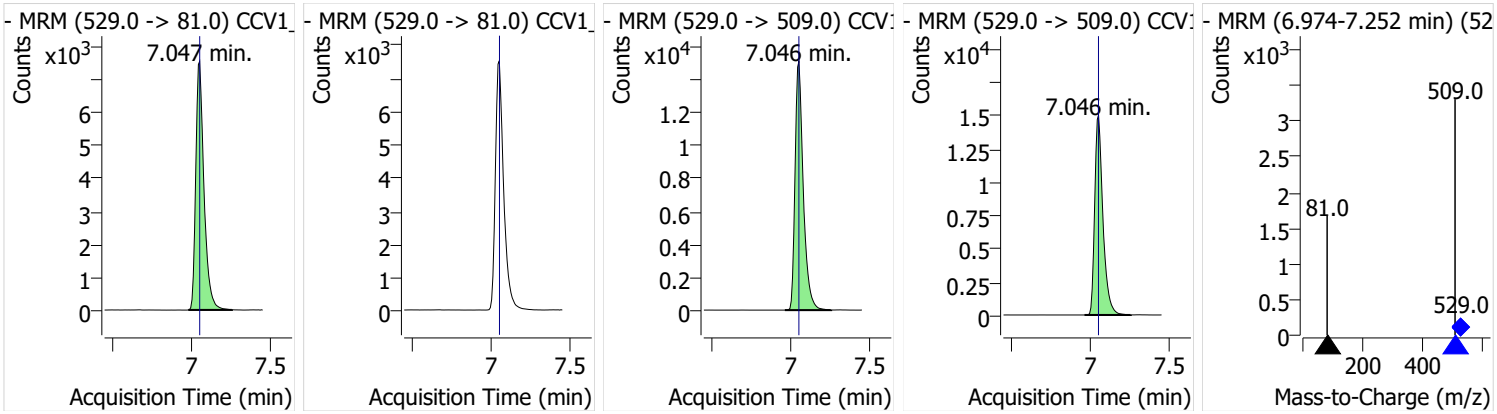
13C2-4:2FTS - ISTD



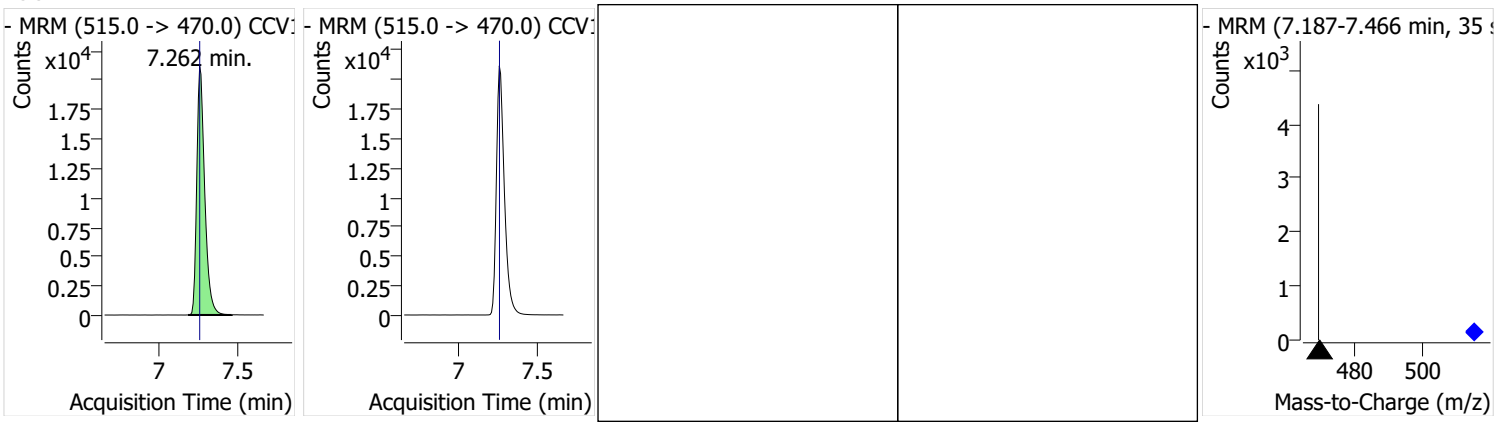
13C2-6:2FTS - ISTD



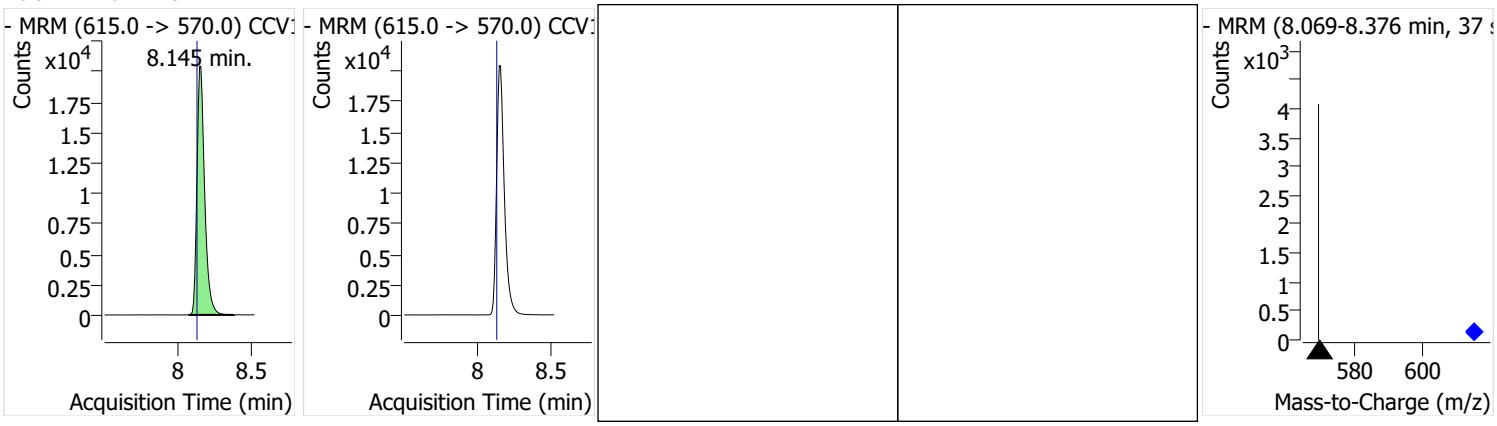
13C2-8:2FTS - ISTD



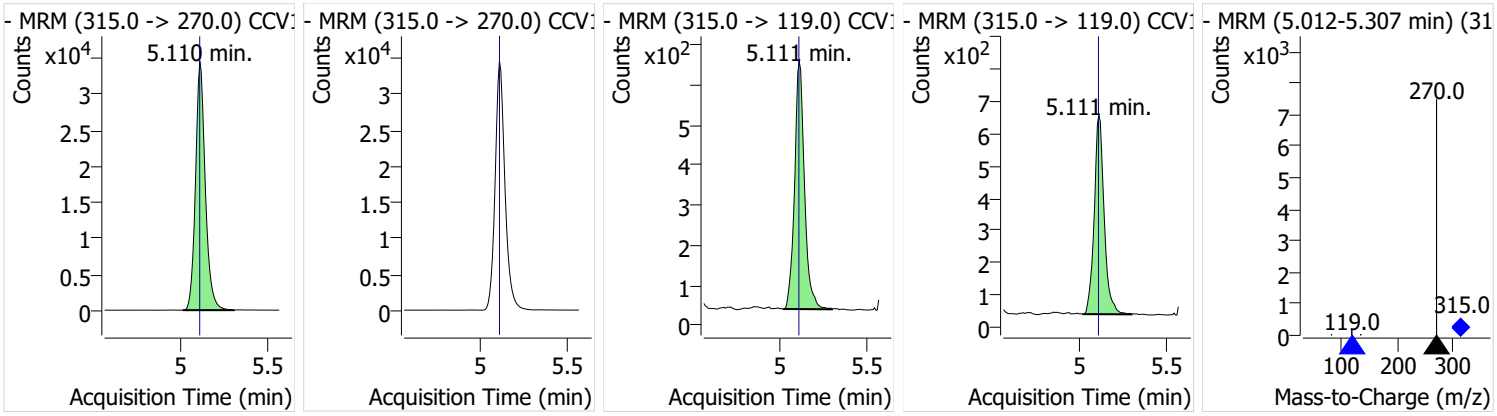
13C2-PFDA



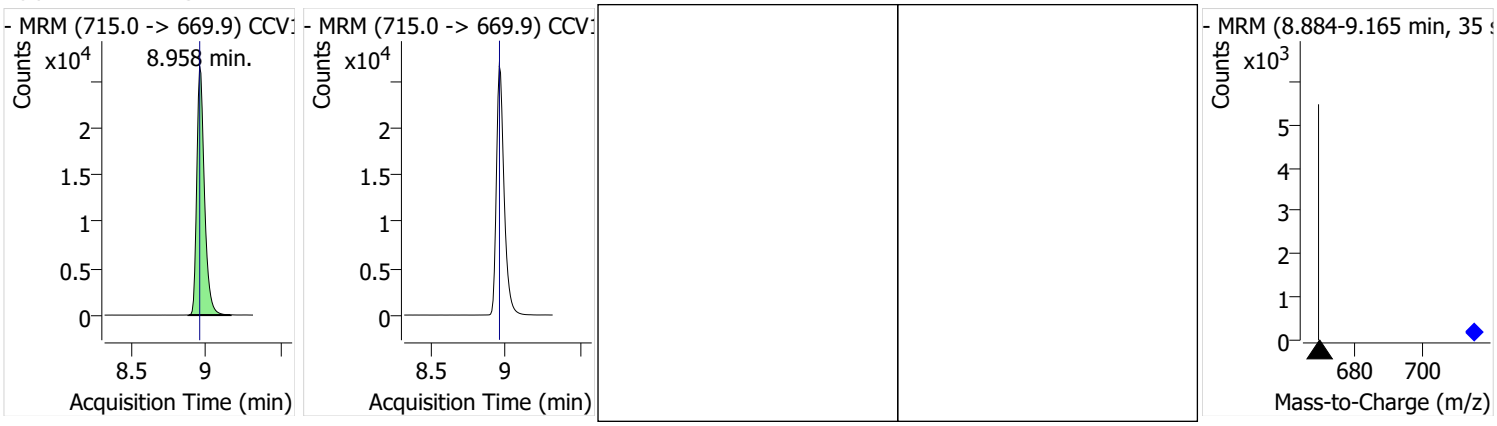
13C2-PFDoA - ISTD



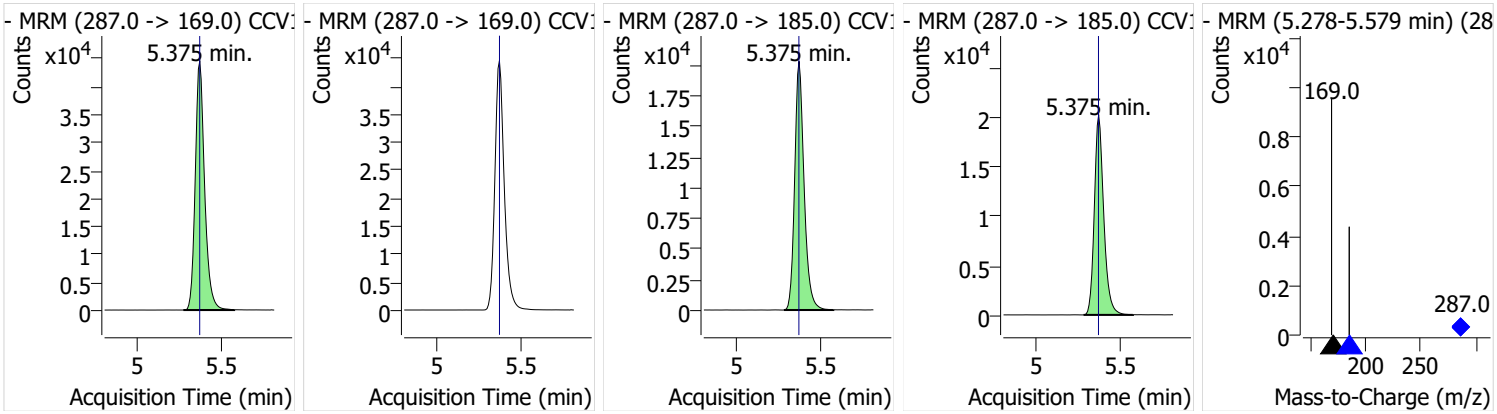
13C2-PFHxA



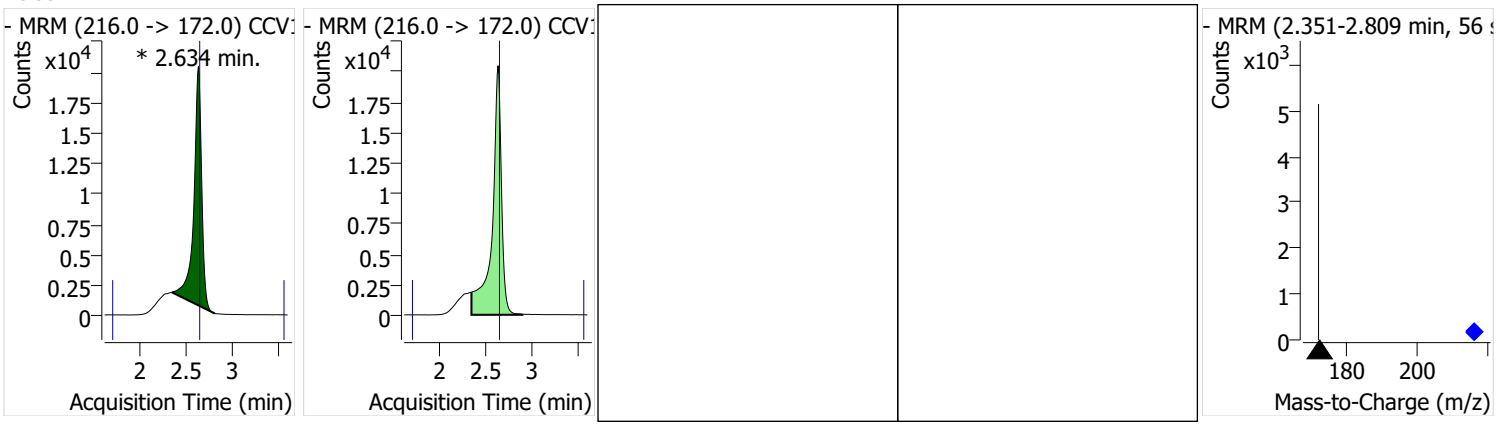
13C2-PFTeDA - ISTD



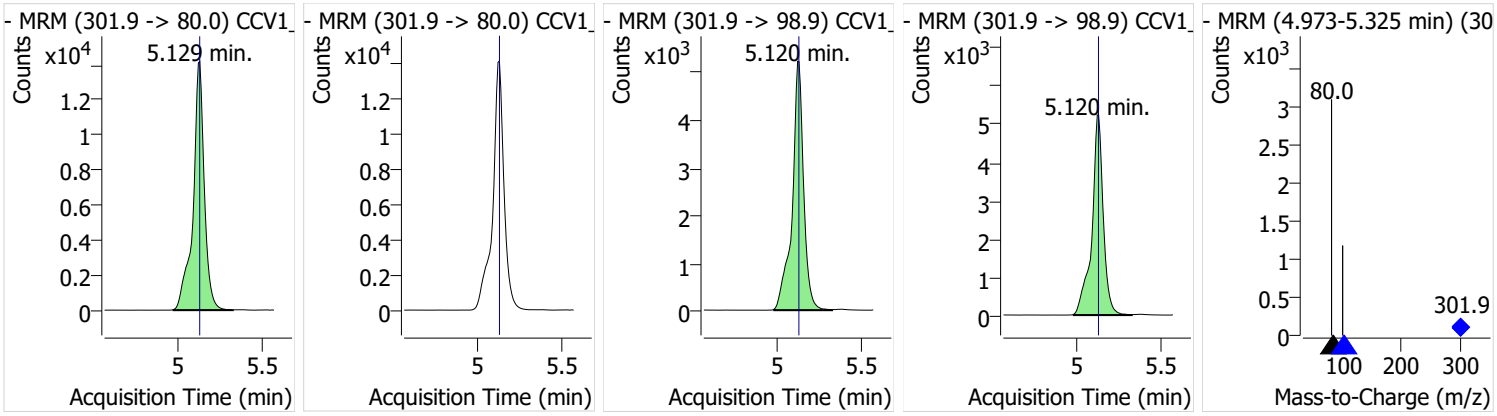
13C3-HFPODA - ISTD



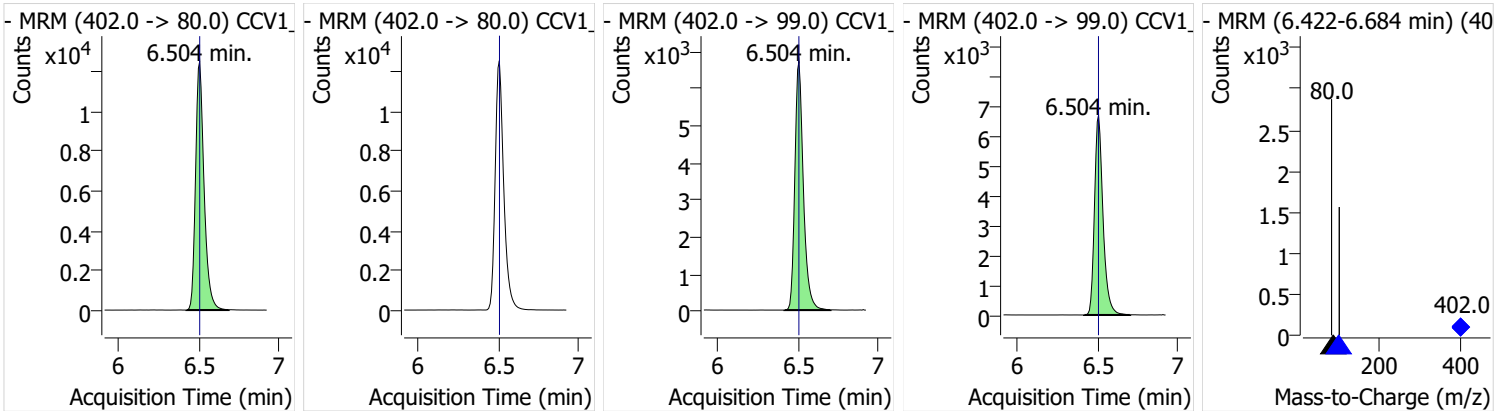
13C3-PFBA



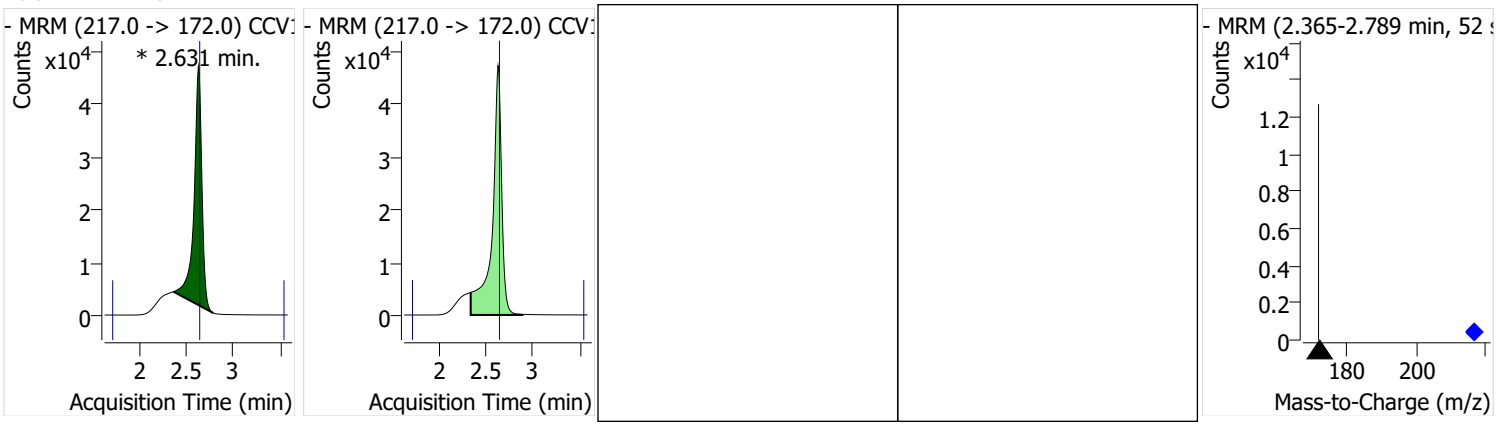
13C3-PFBS - ISTD



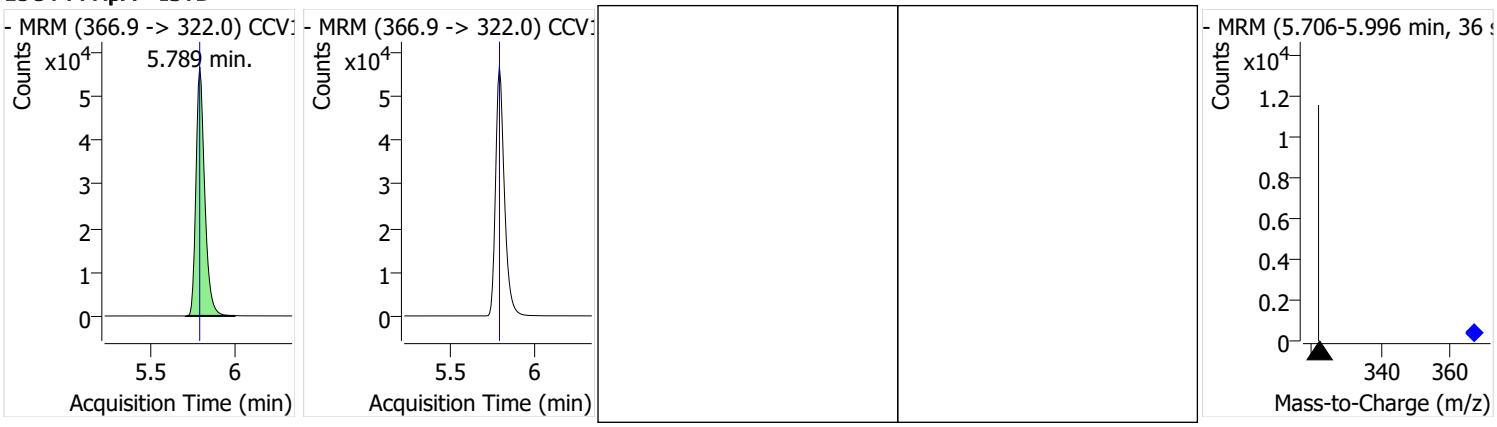
13C3-PFHxS - ISTD



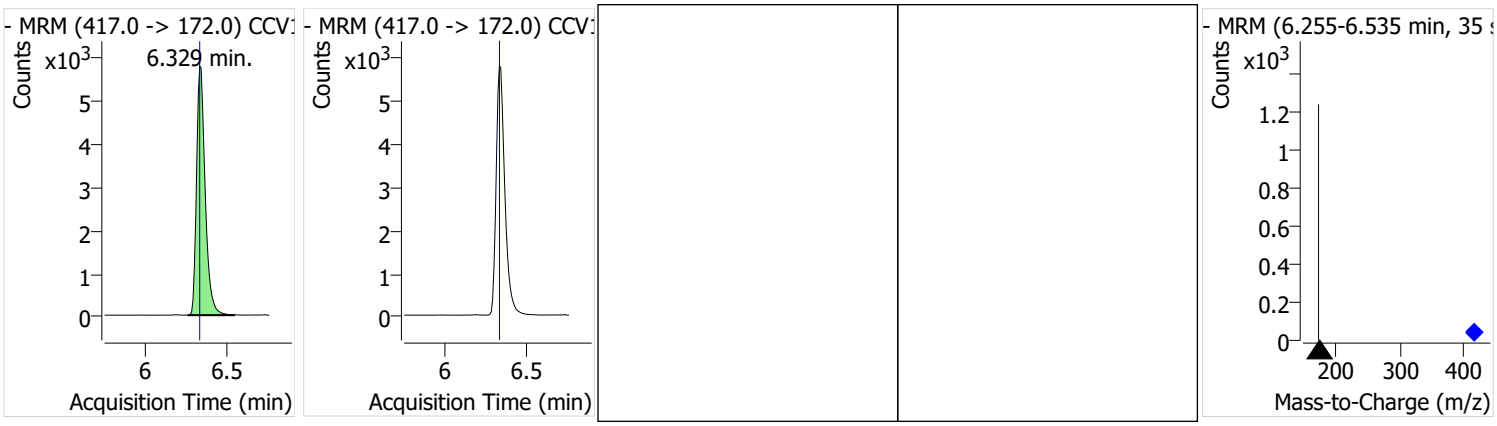
13C4-PFBA - ISTD



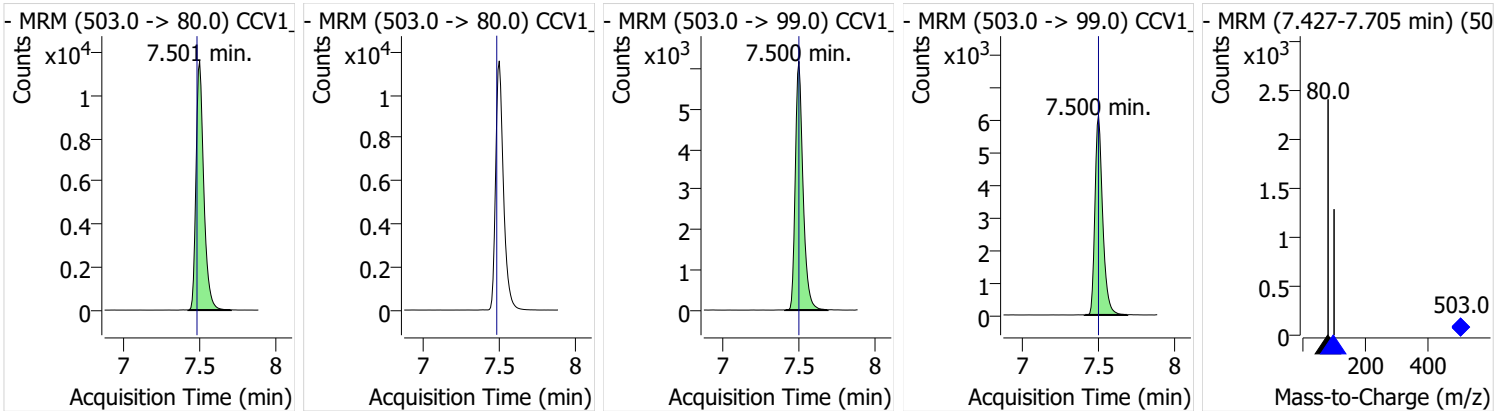
13C4-PFHpA - ISTD



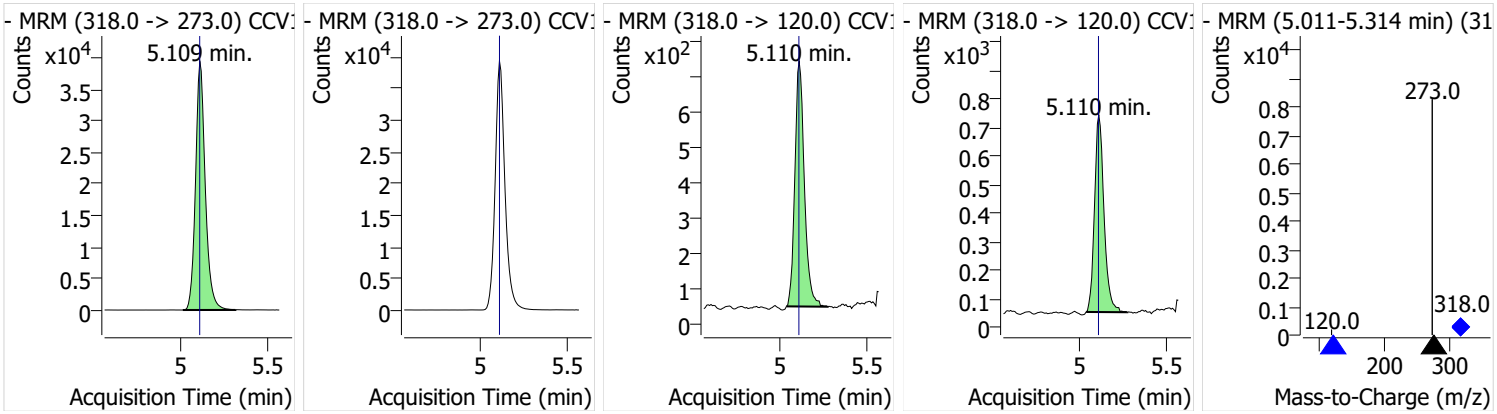
13C4-PFOA



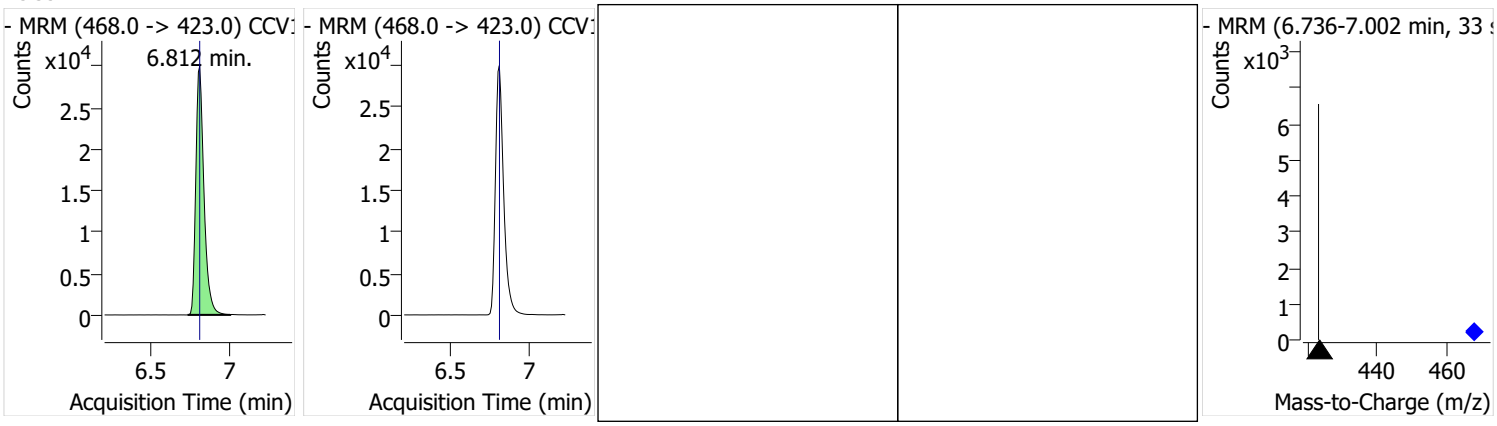
13C4-PFOS



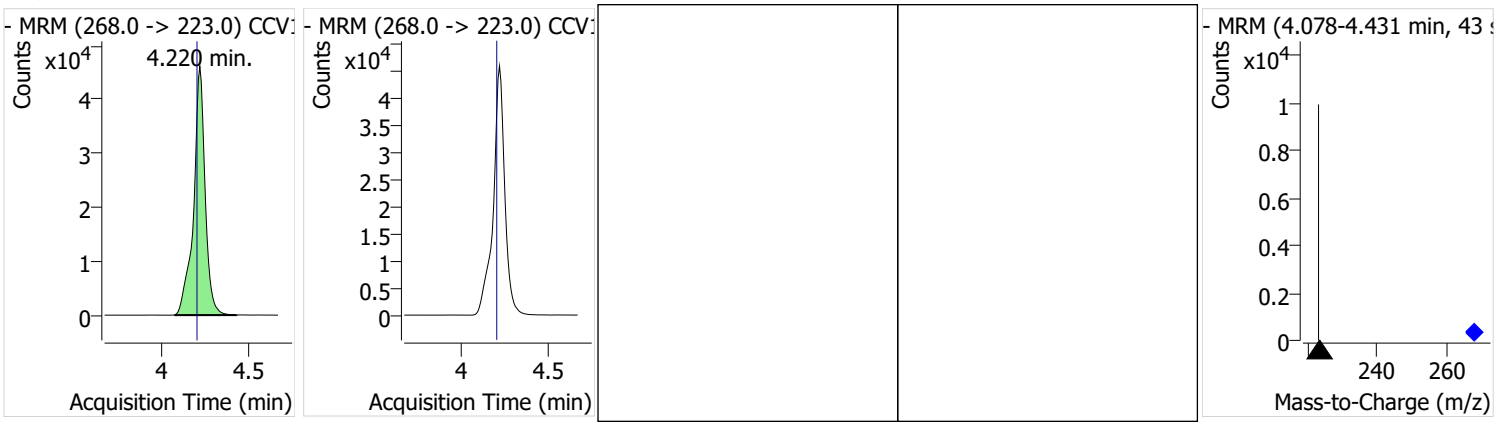
13C5-PFHxA - ISTD



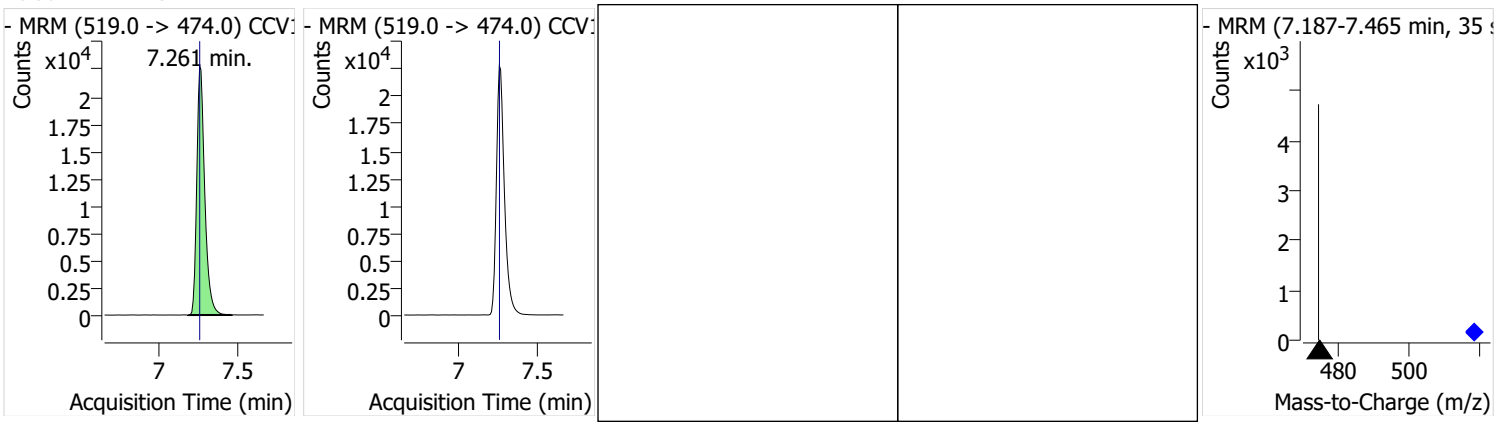
13C5-PFNA



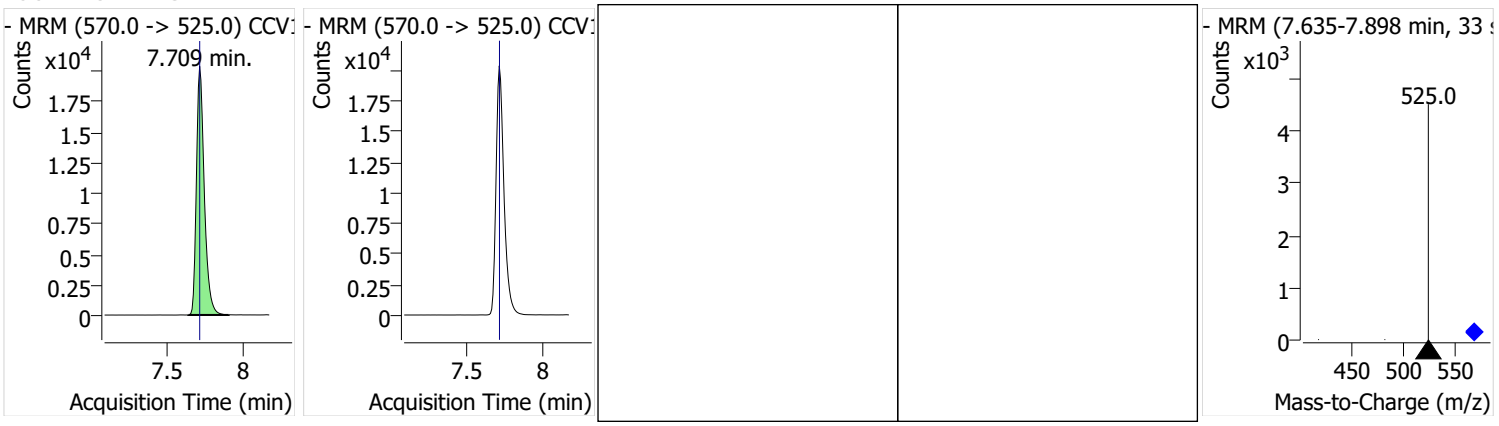
13C5-PFPeA - ISTD



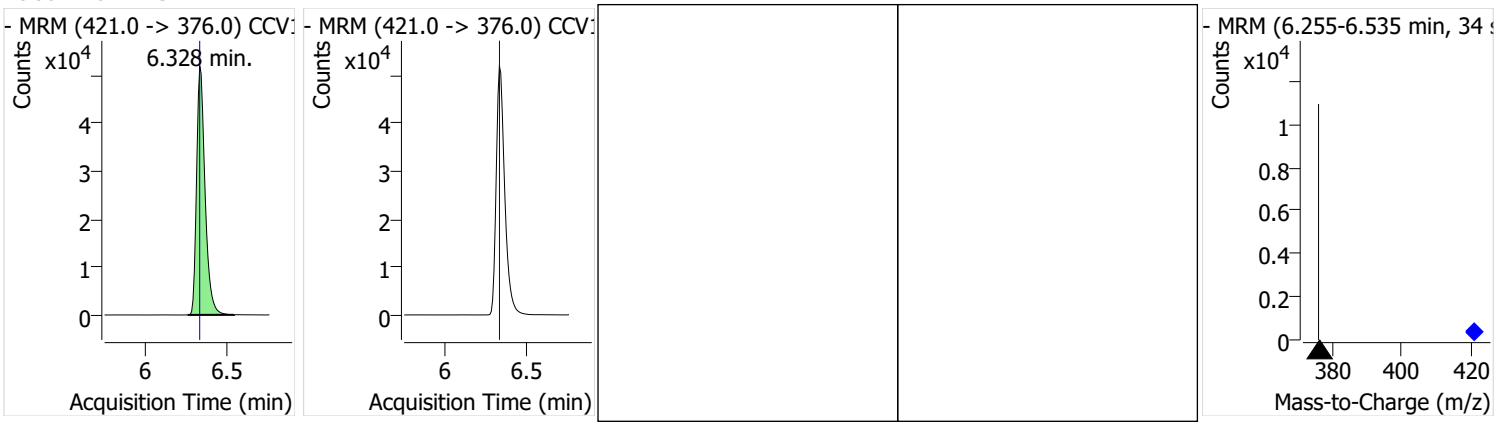
13C6-PFDA - ISTD



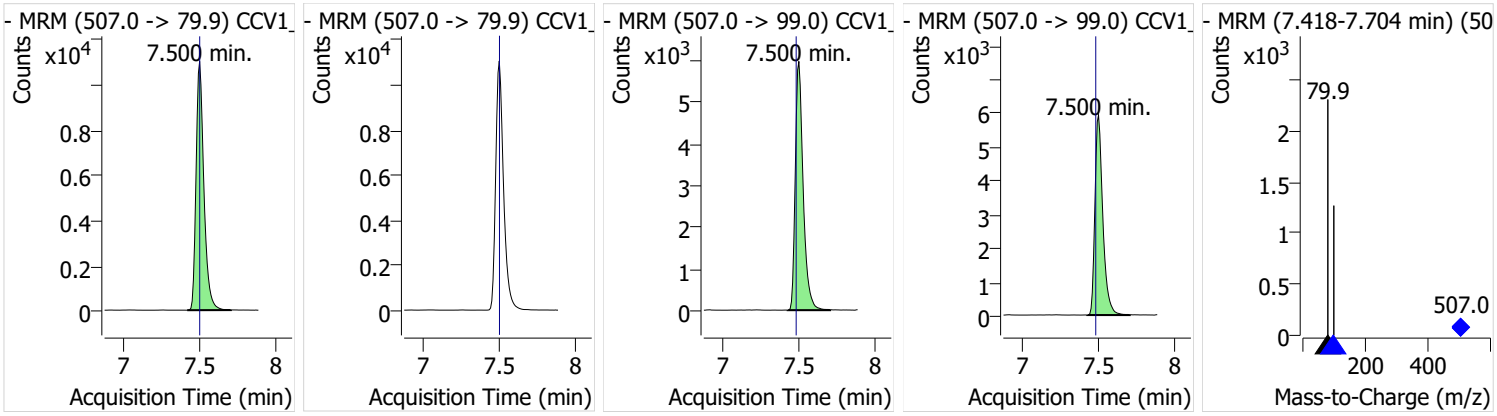
13C7-PFUnA - ISTD



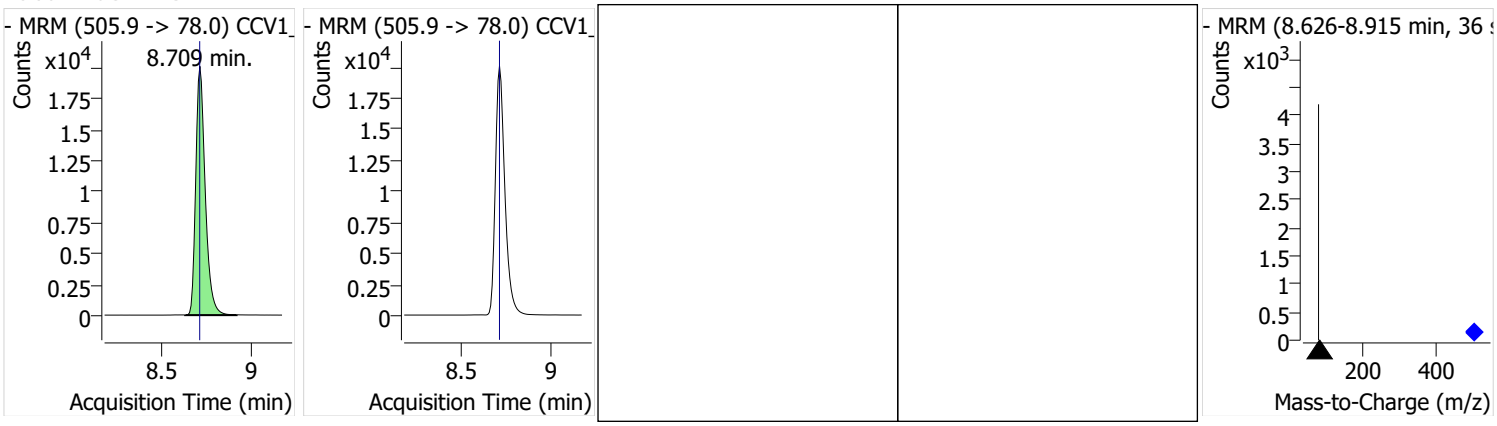
13C8-PFOA - ISTD



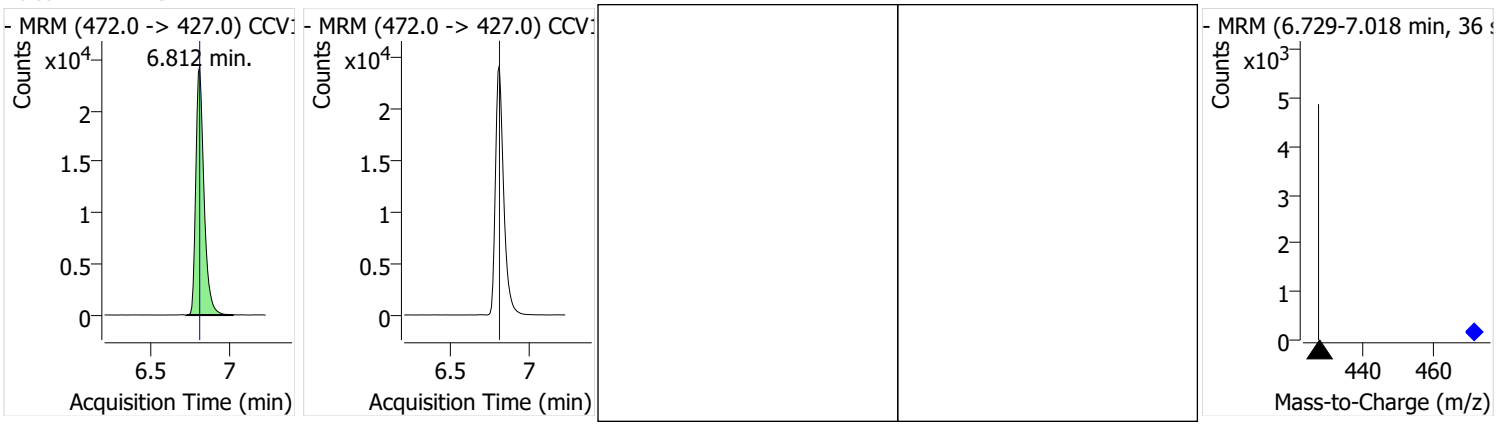
13C8-PFOS - ISTD



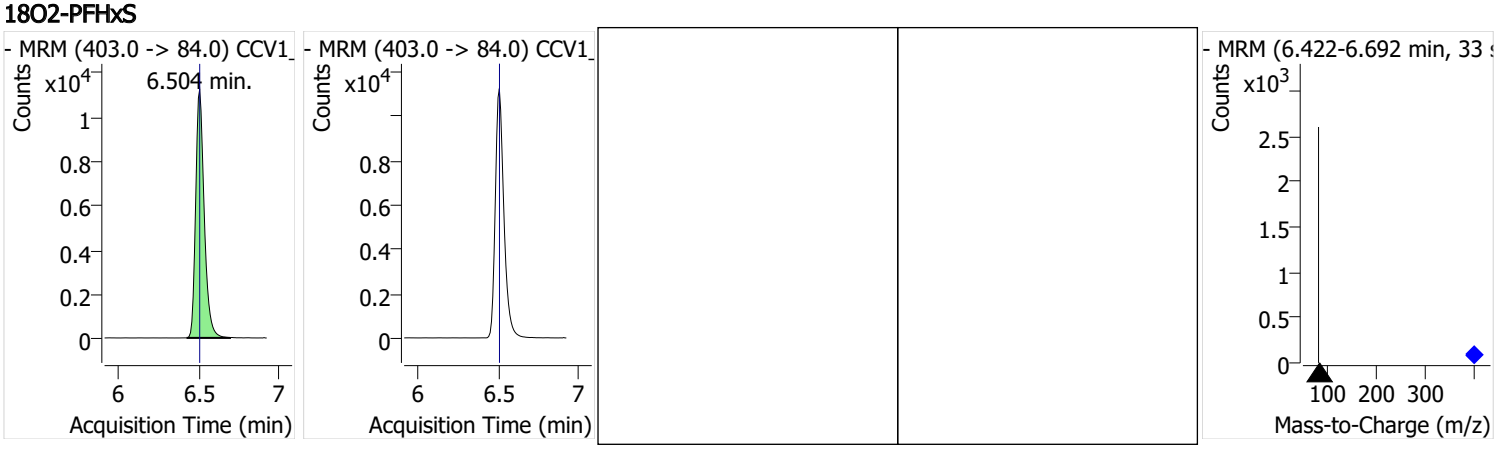
13C8-PFOSA - ISTD



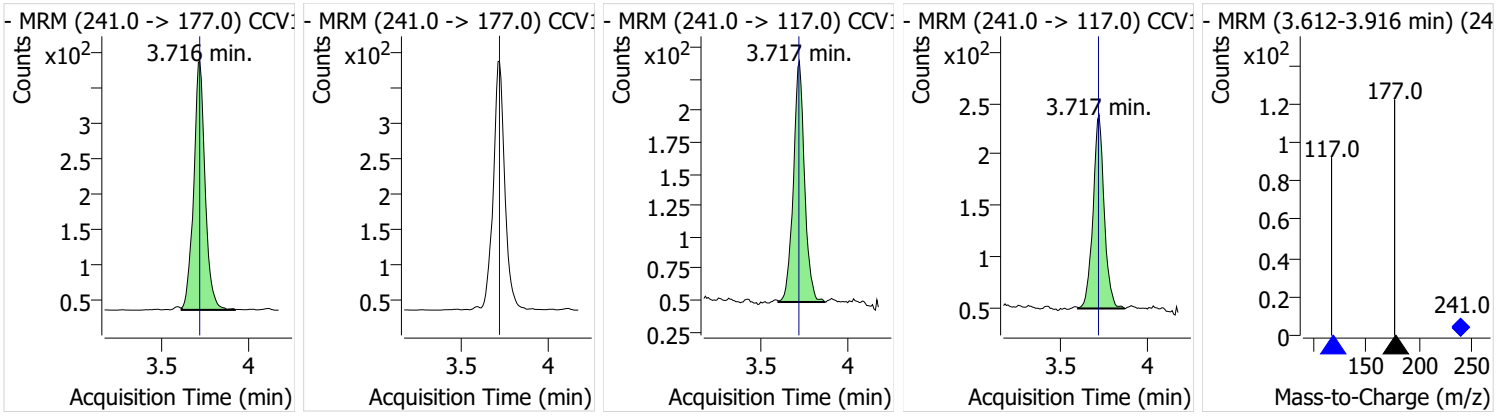
13C9-PFNA - ISTD



18O2-PFHxS



3:3FTCA



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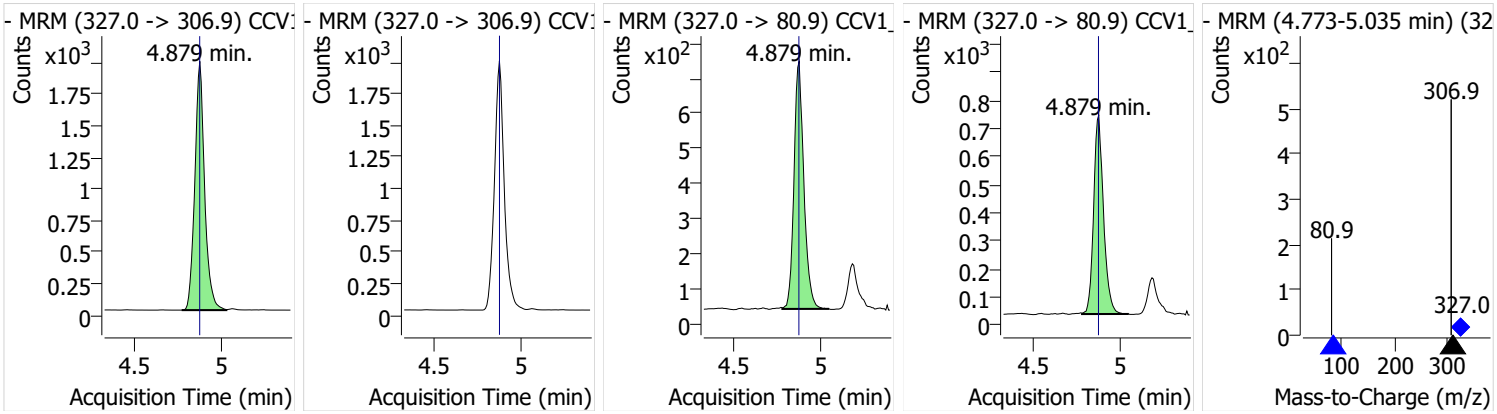

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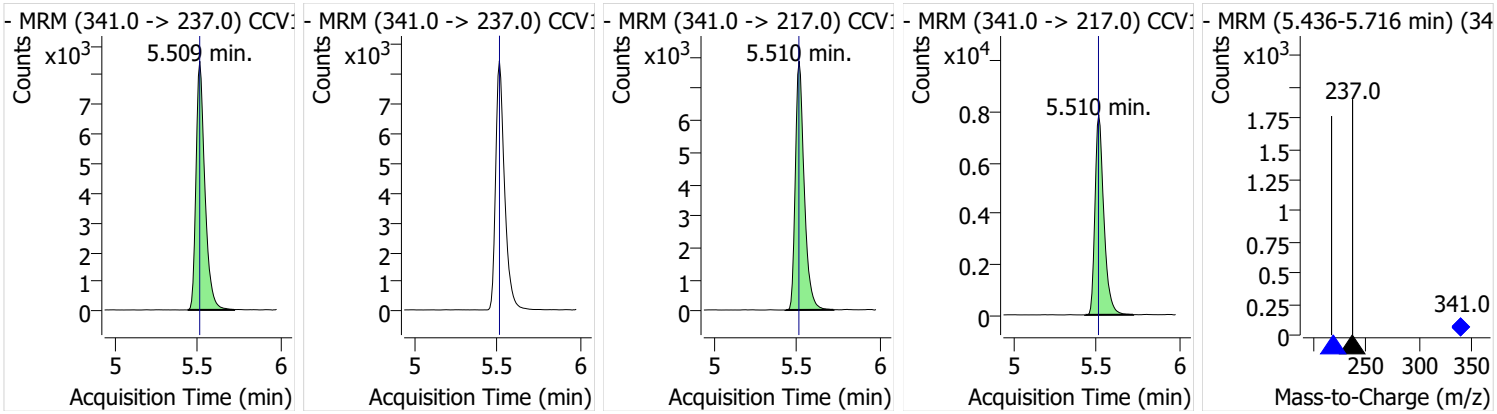
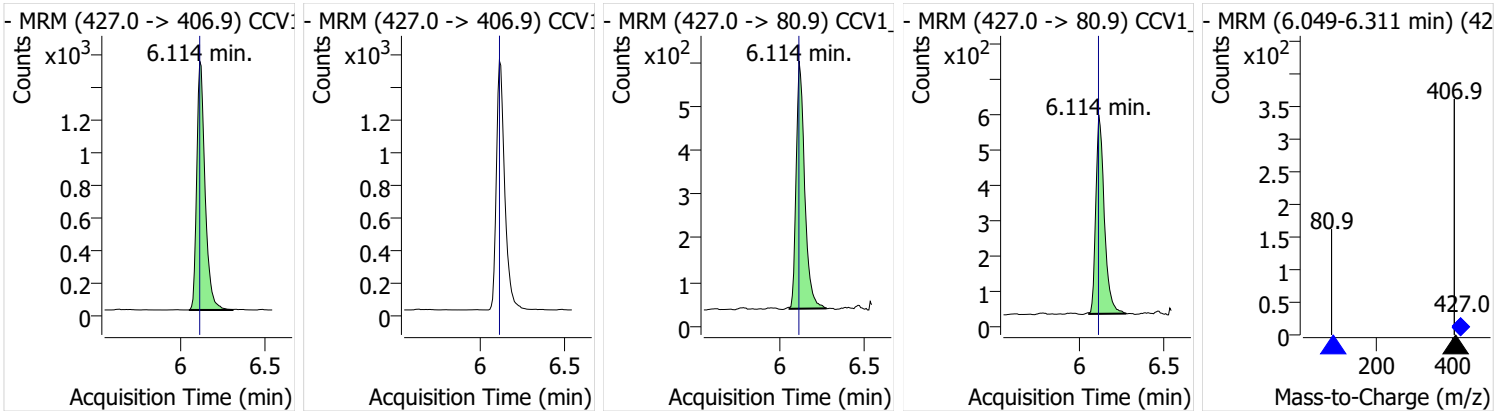


6:2FTS



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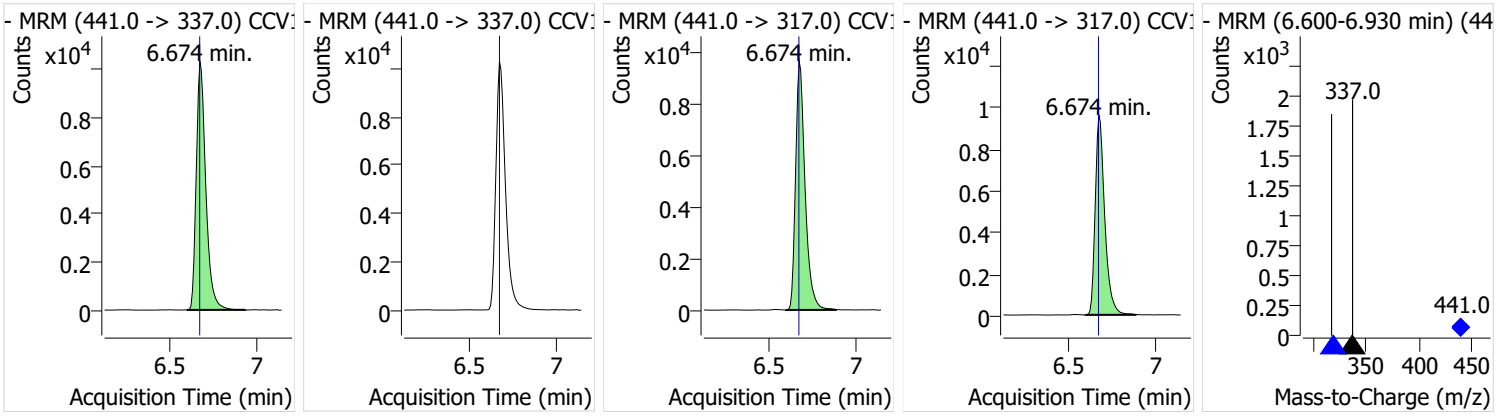

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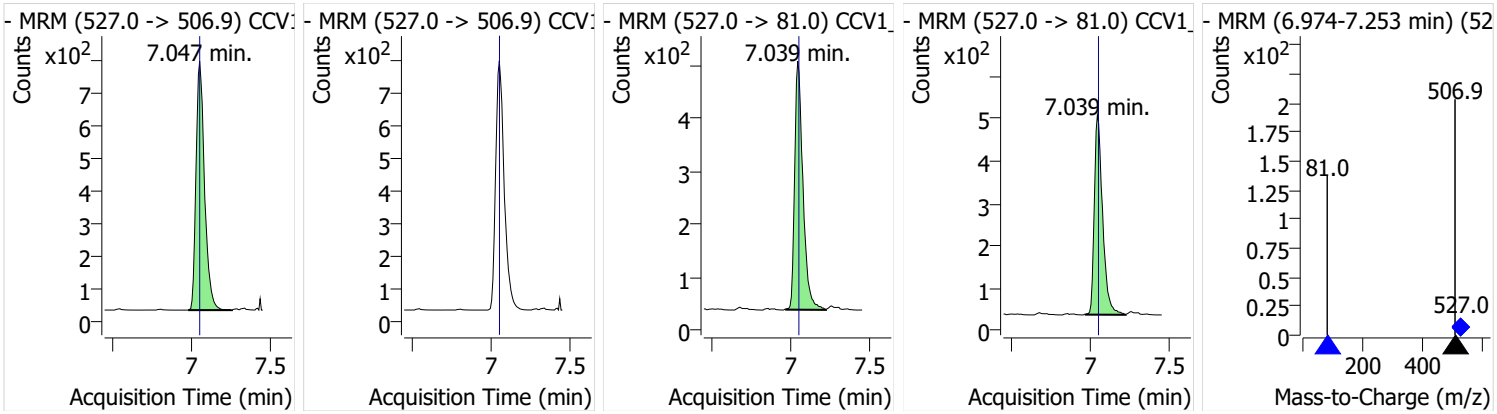
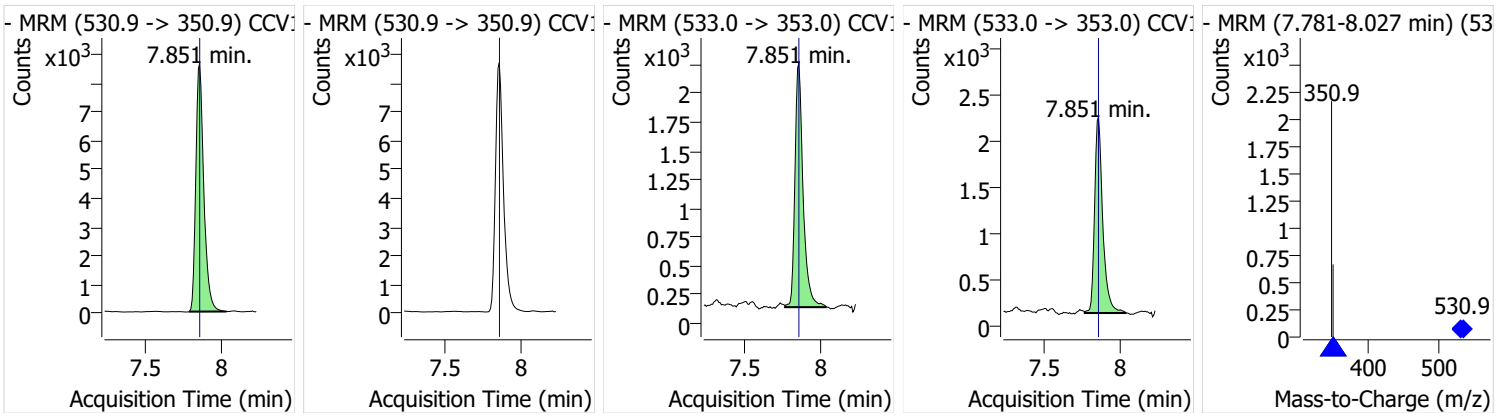


9Cl-PF3ONS



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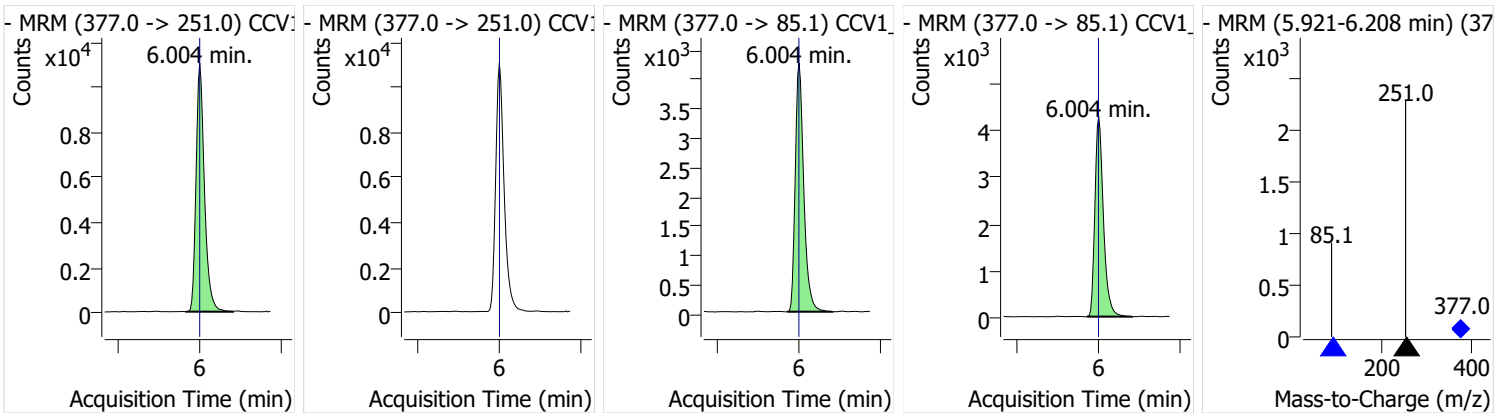

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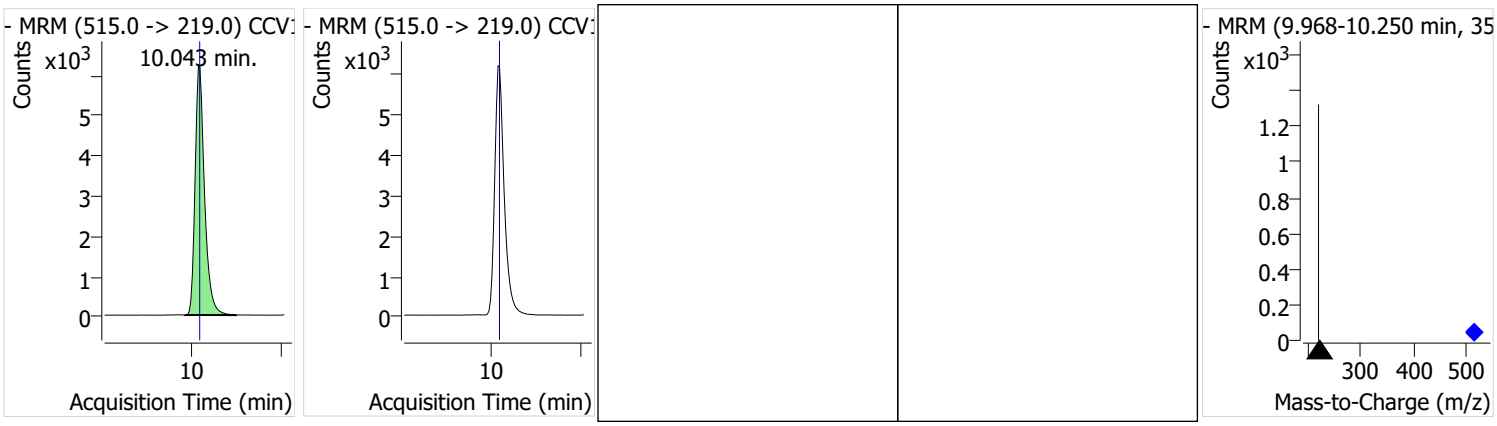

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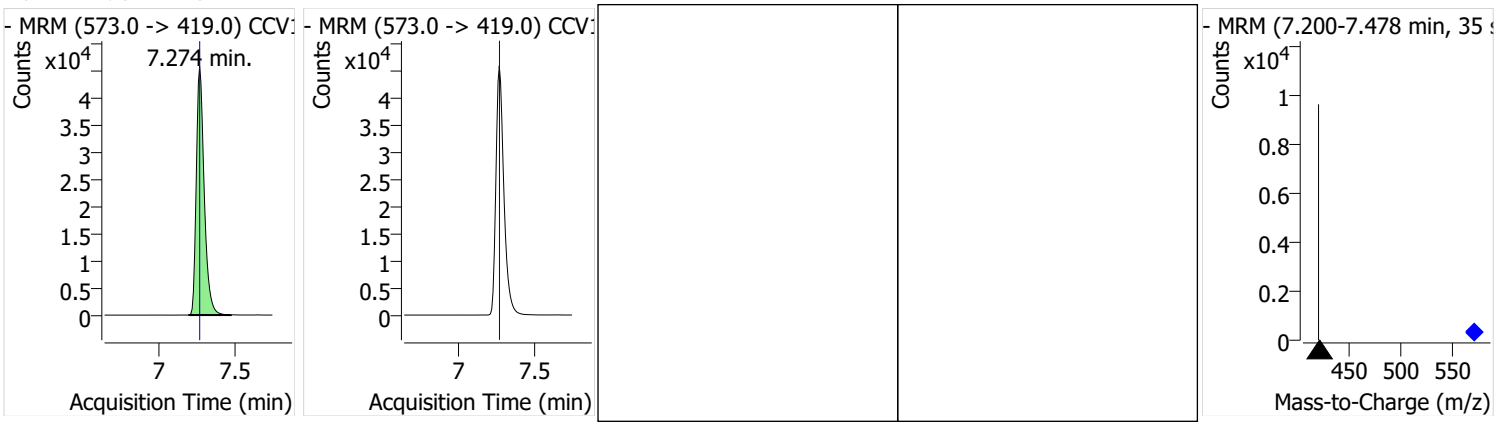

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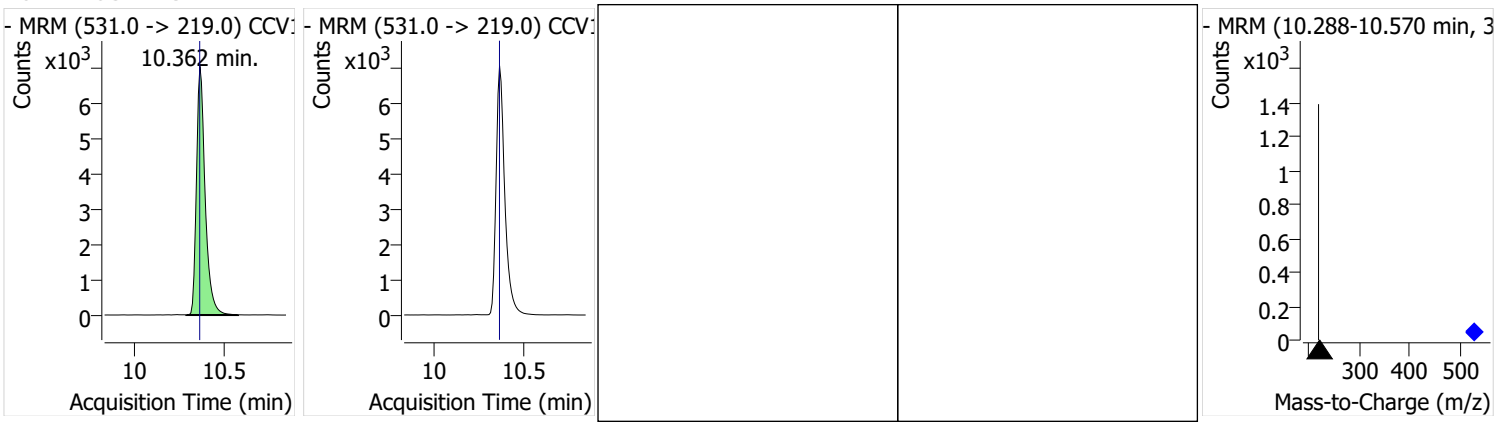

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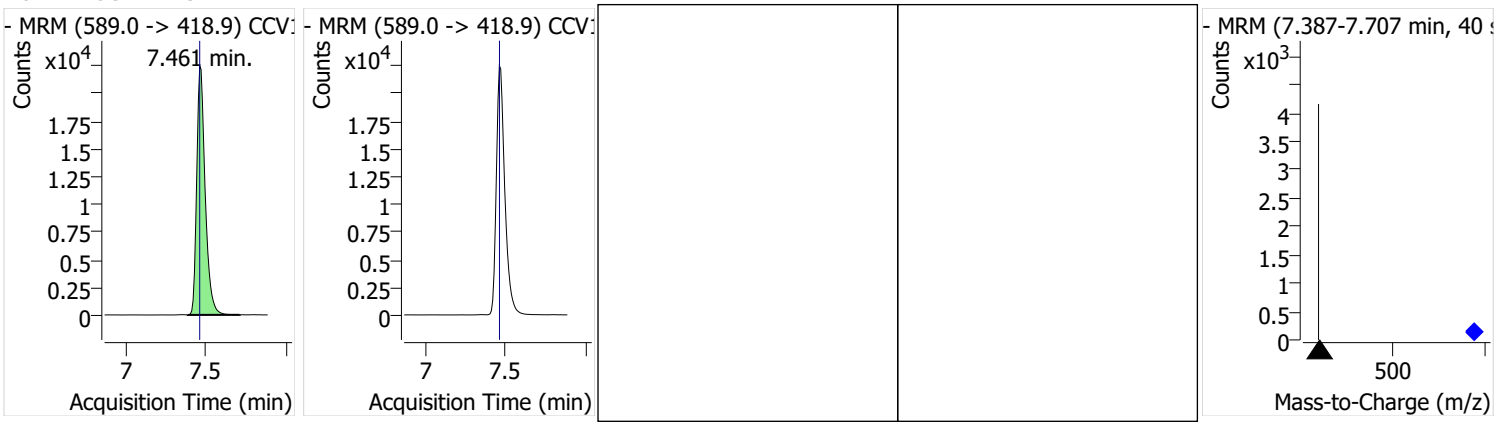

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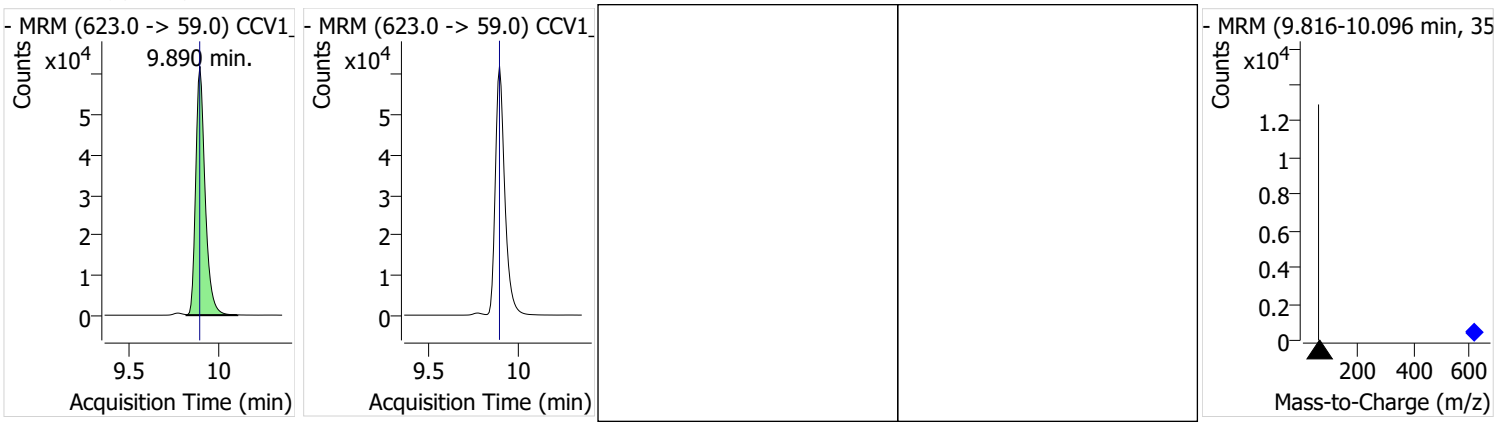

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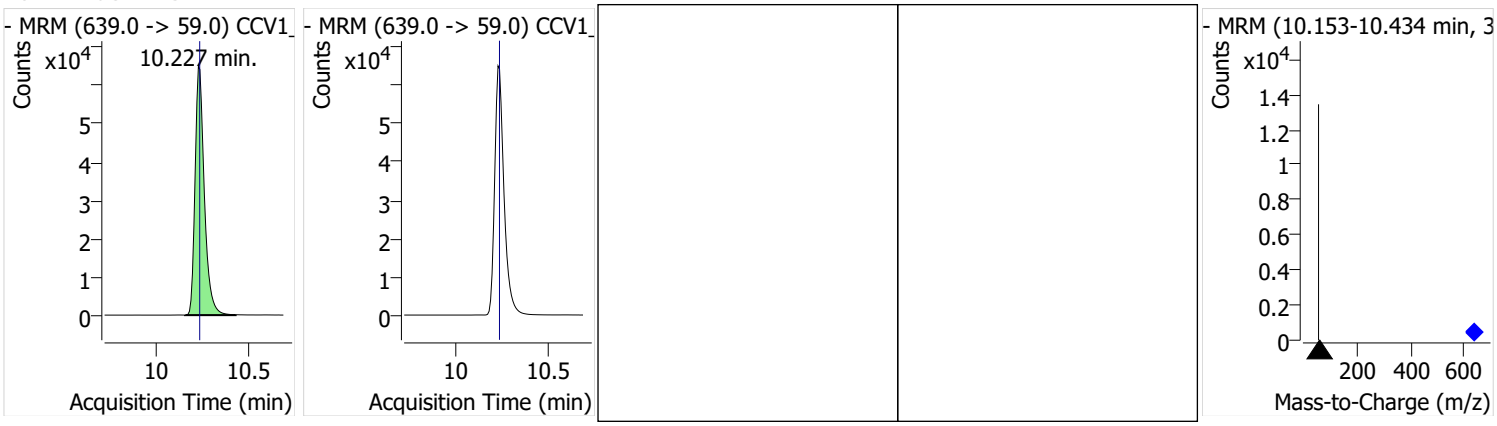

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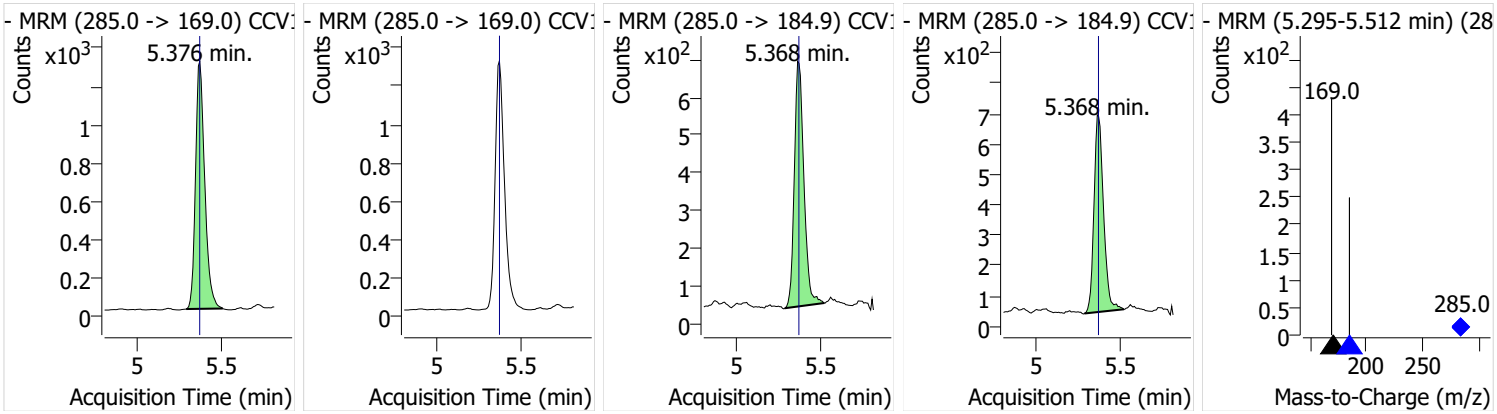

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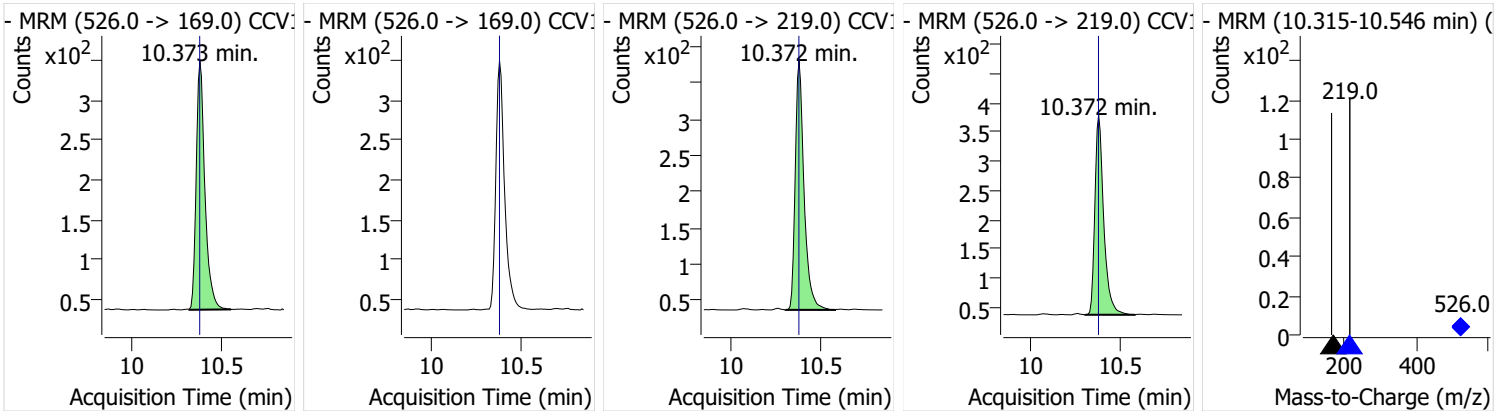

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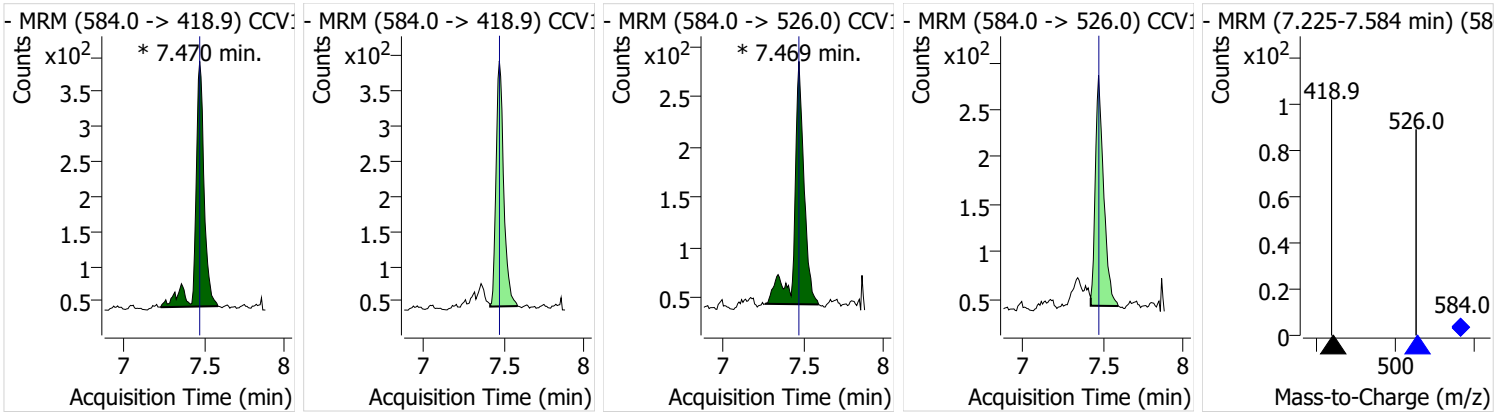

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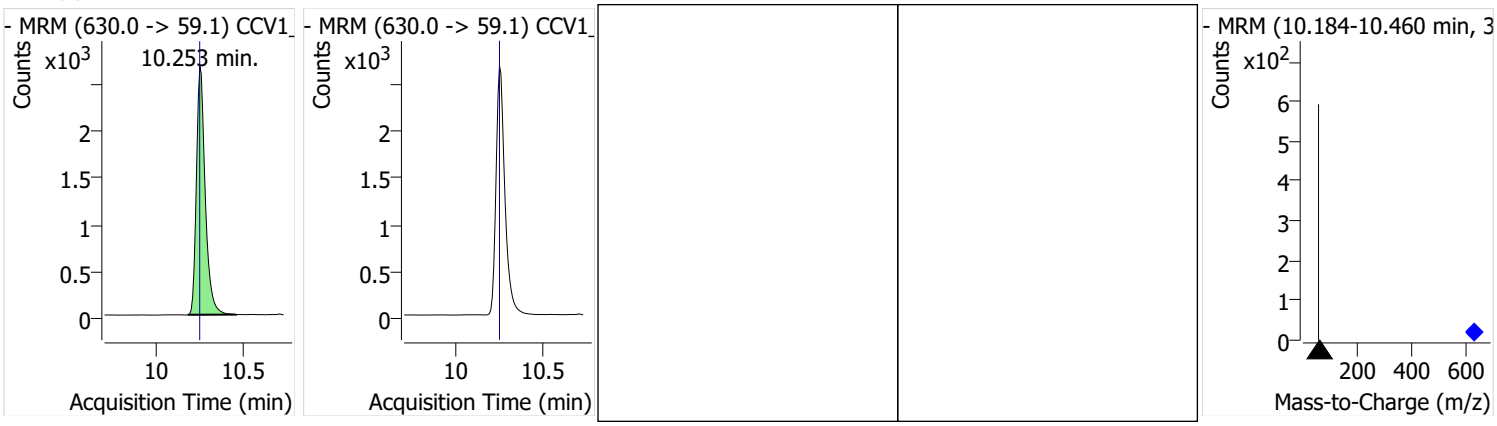

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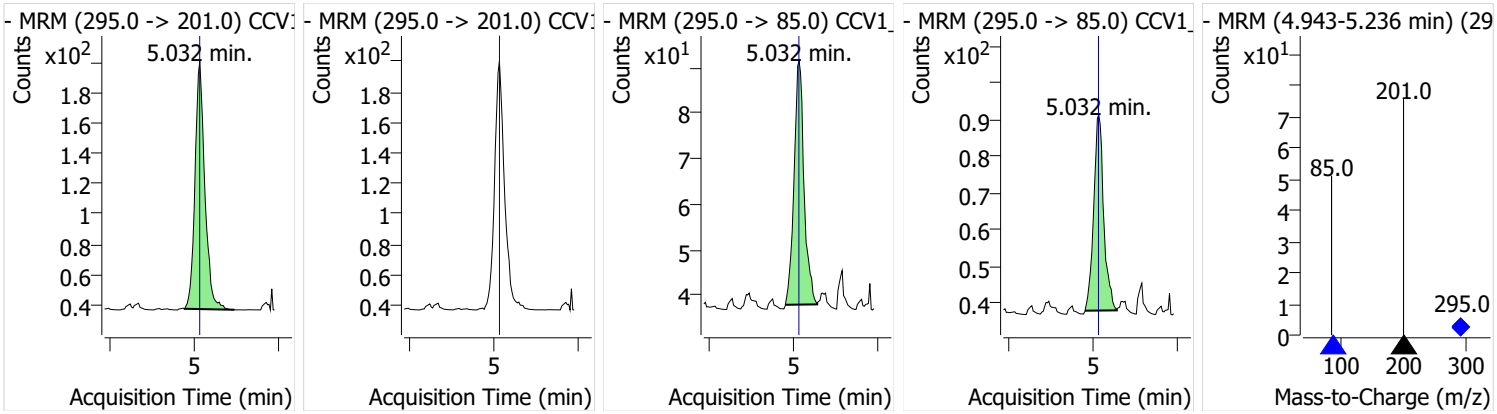

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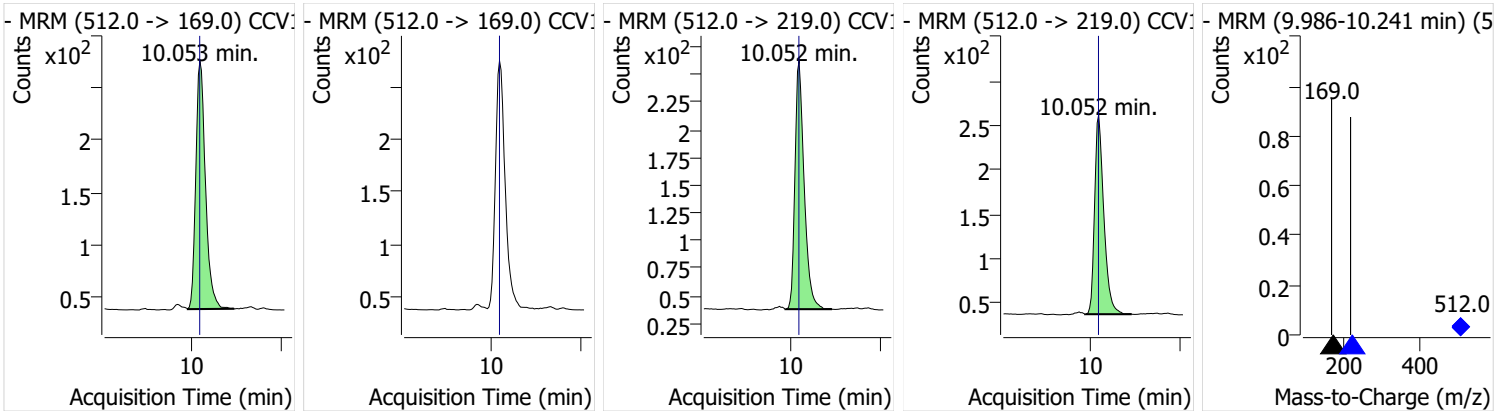

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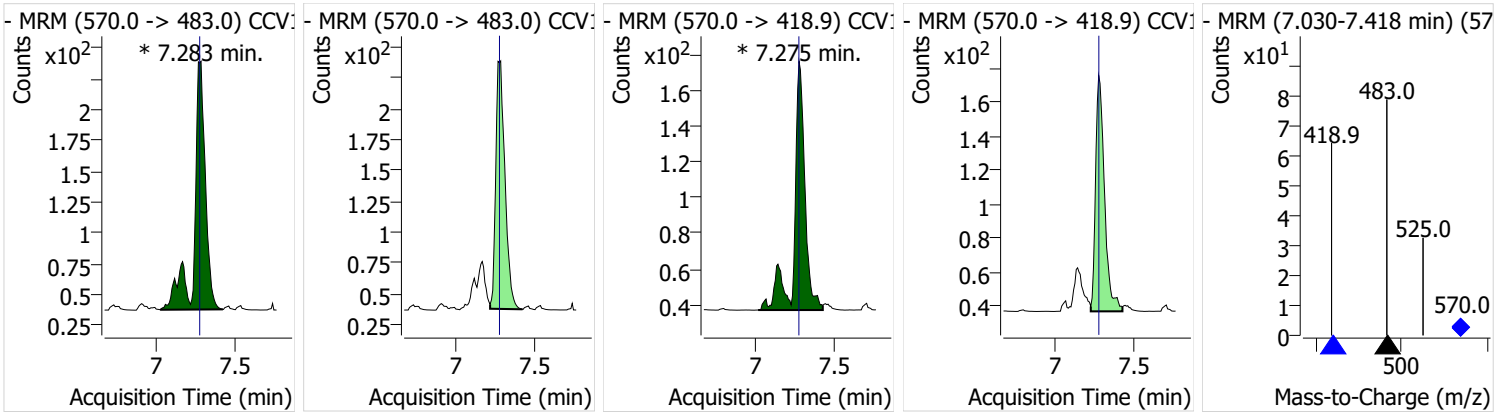

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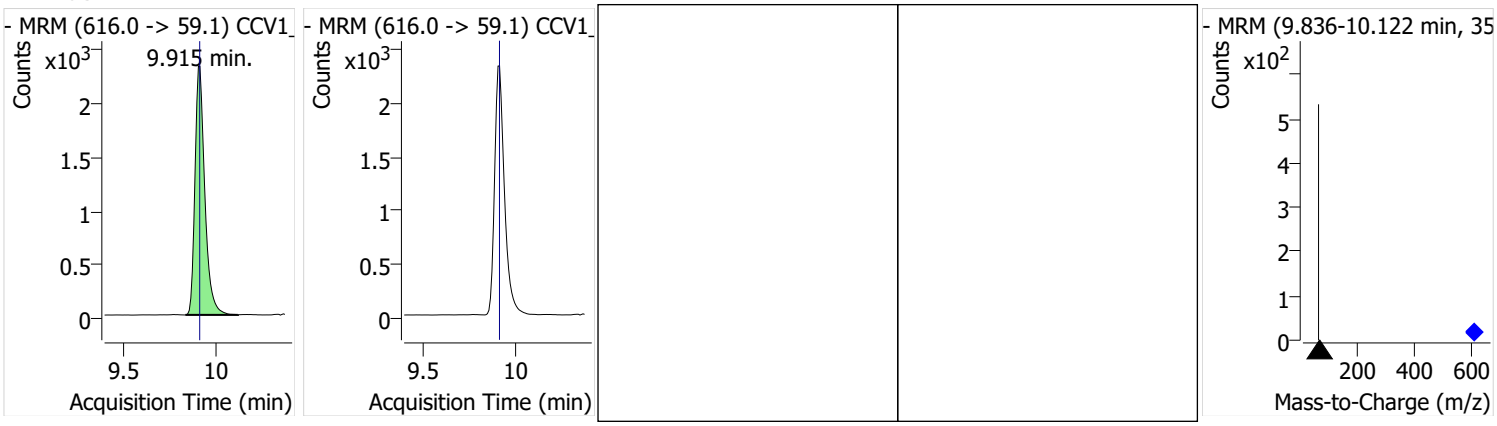

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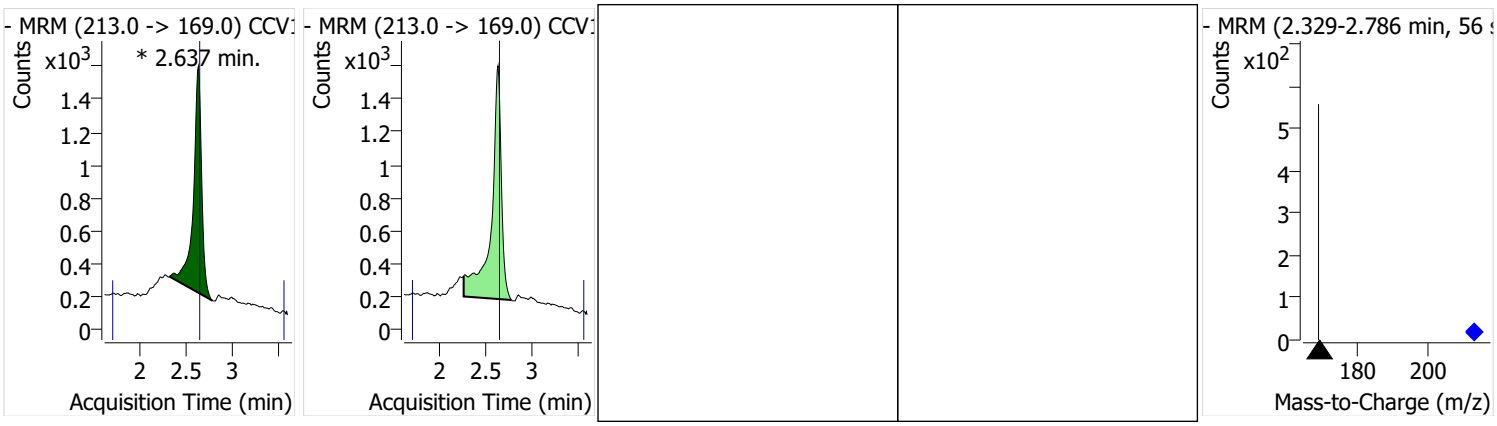

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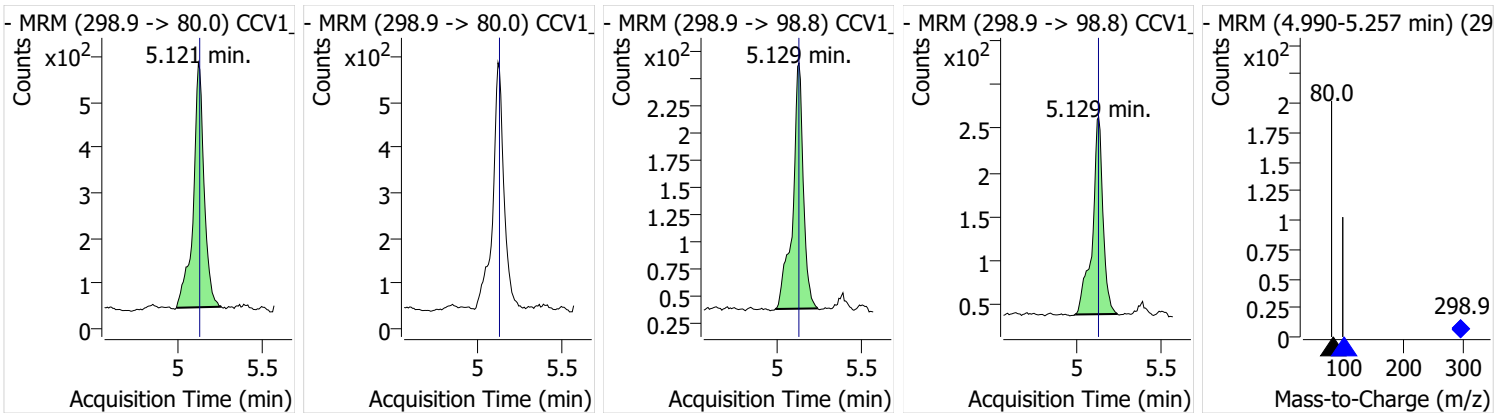

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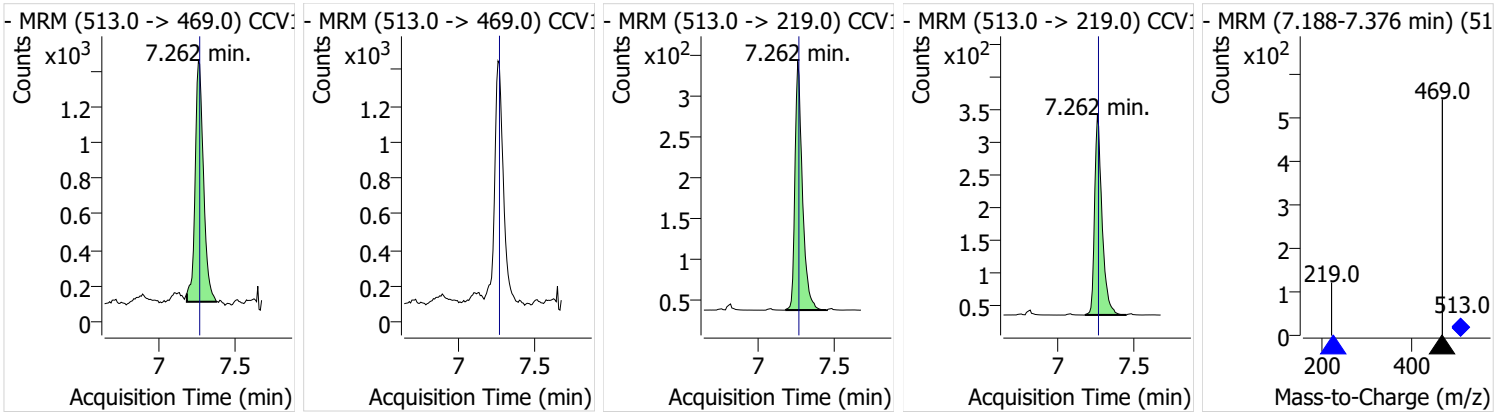

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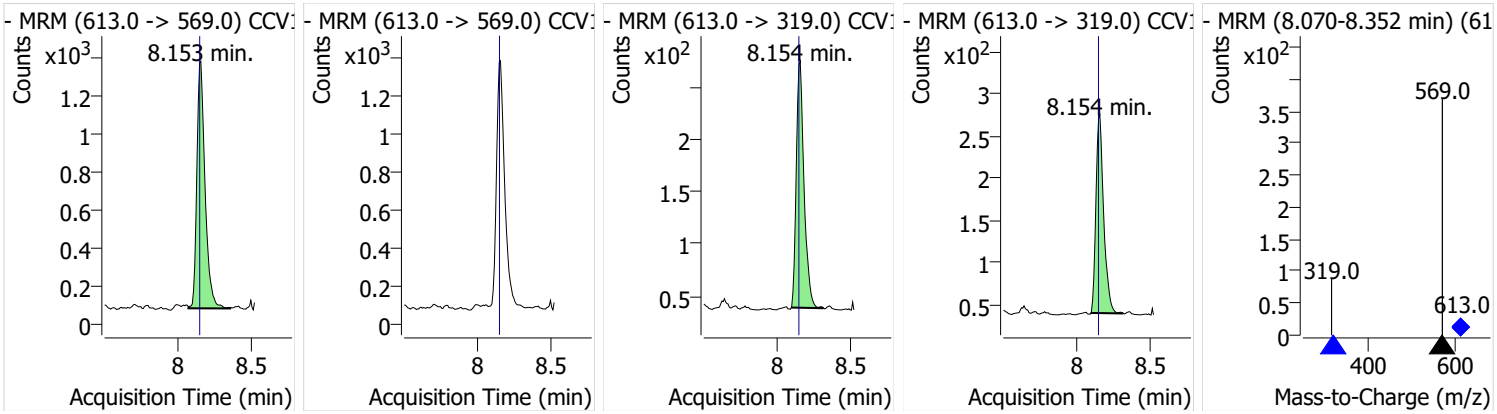

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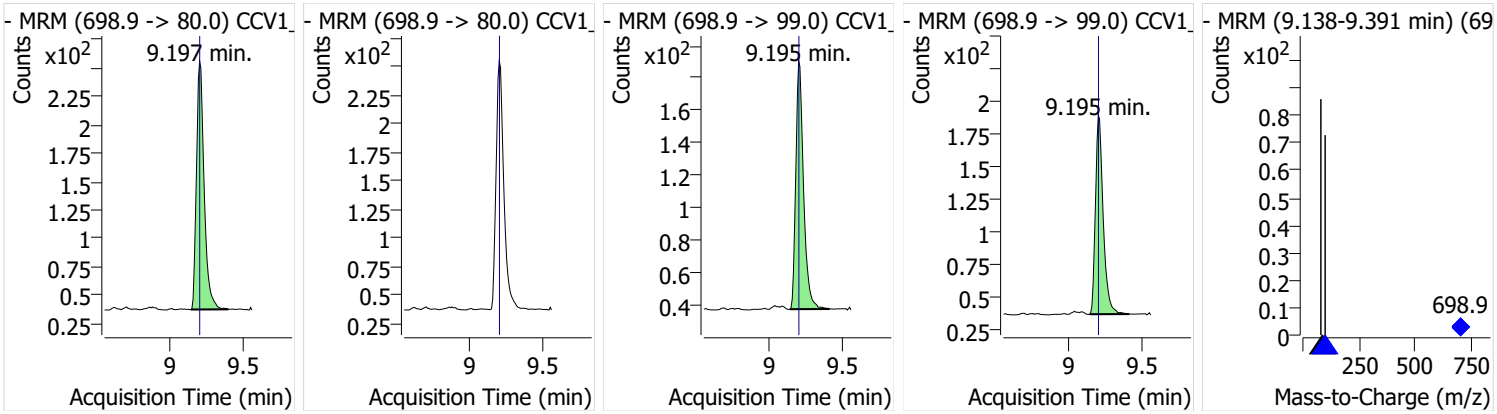

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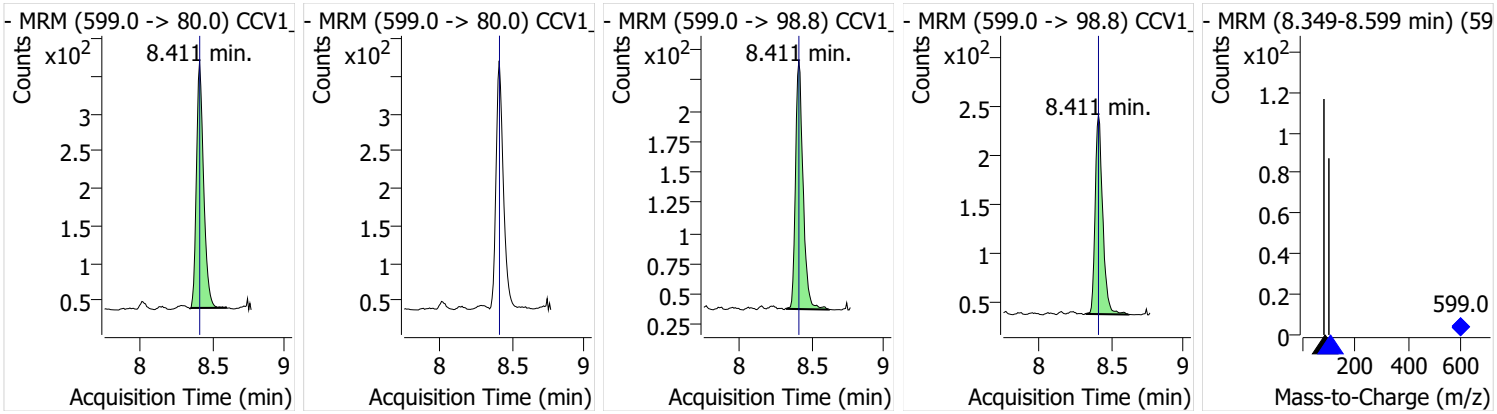

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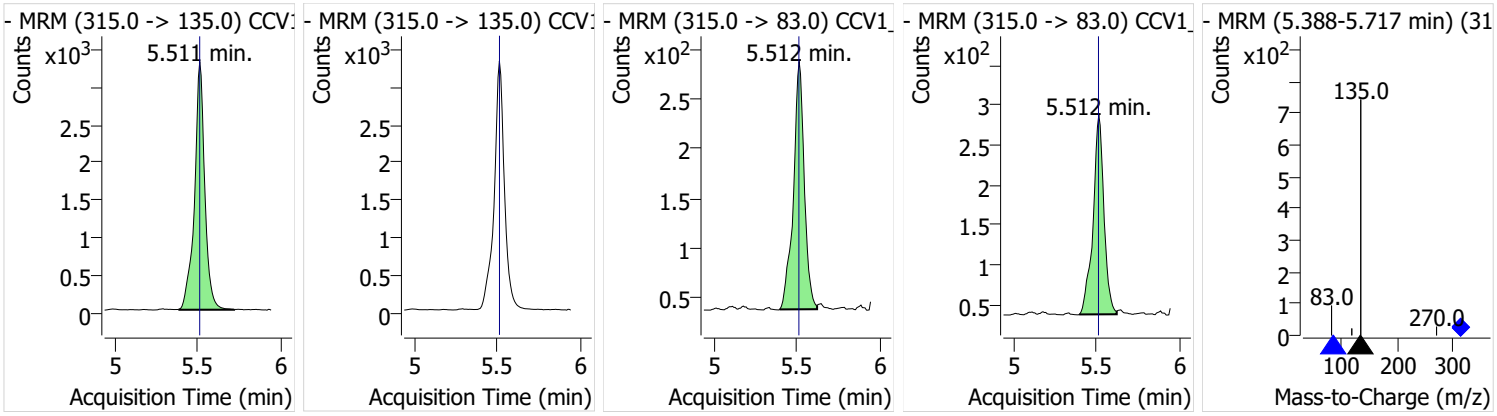

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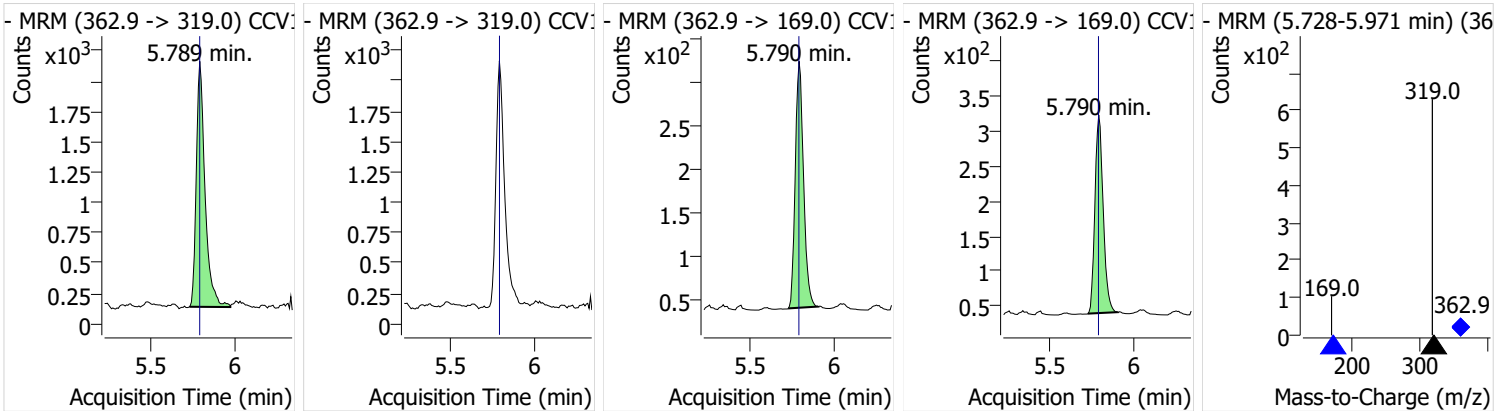

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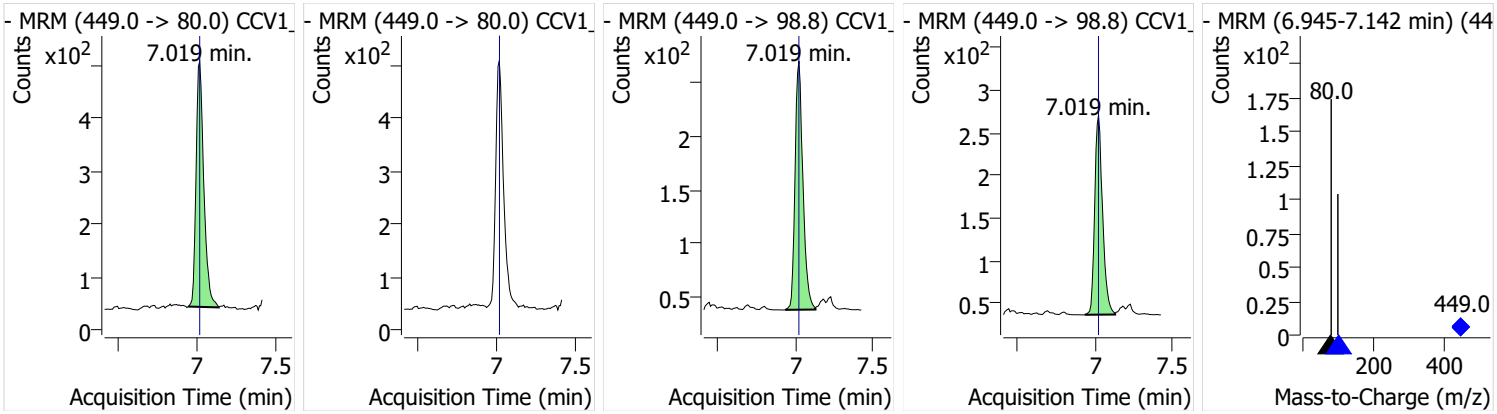

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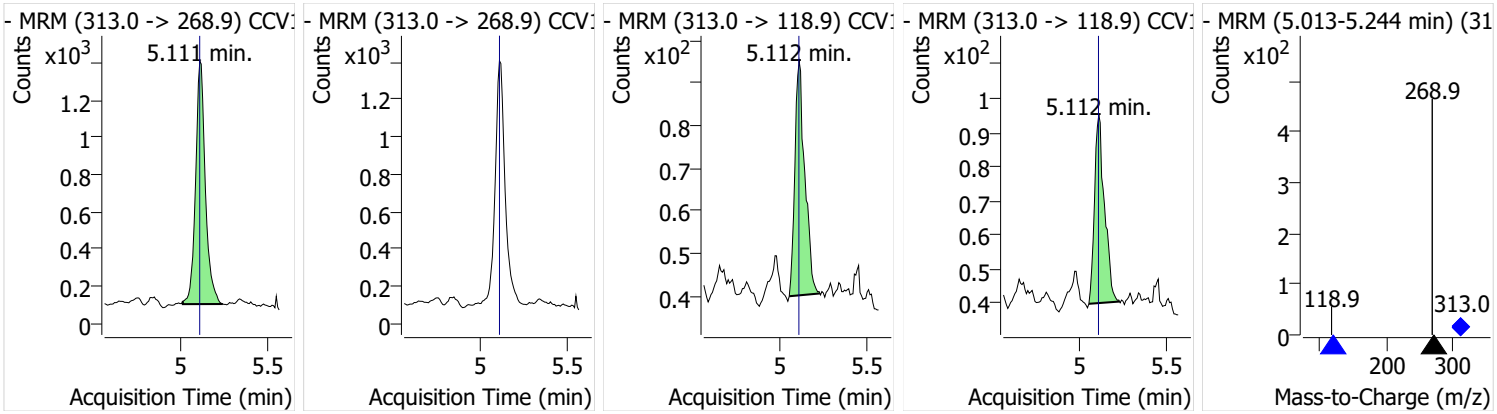

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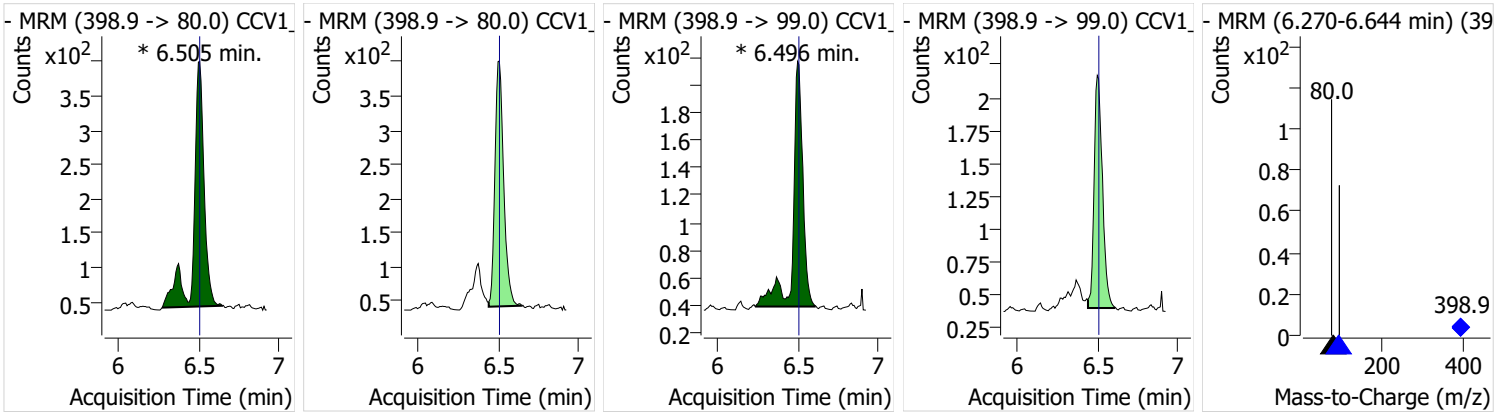

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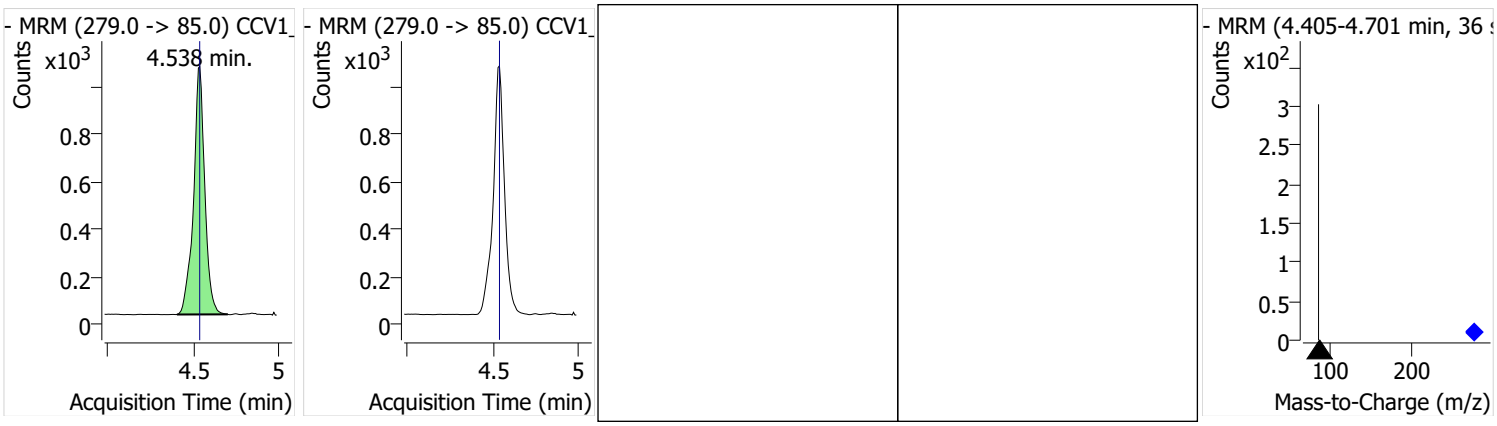

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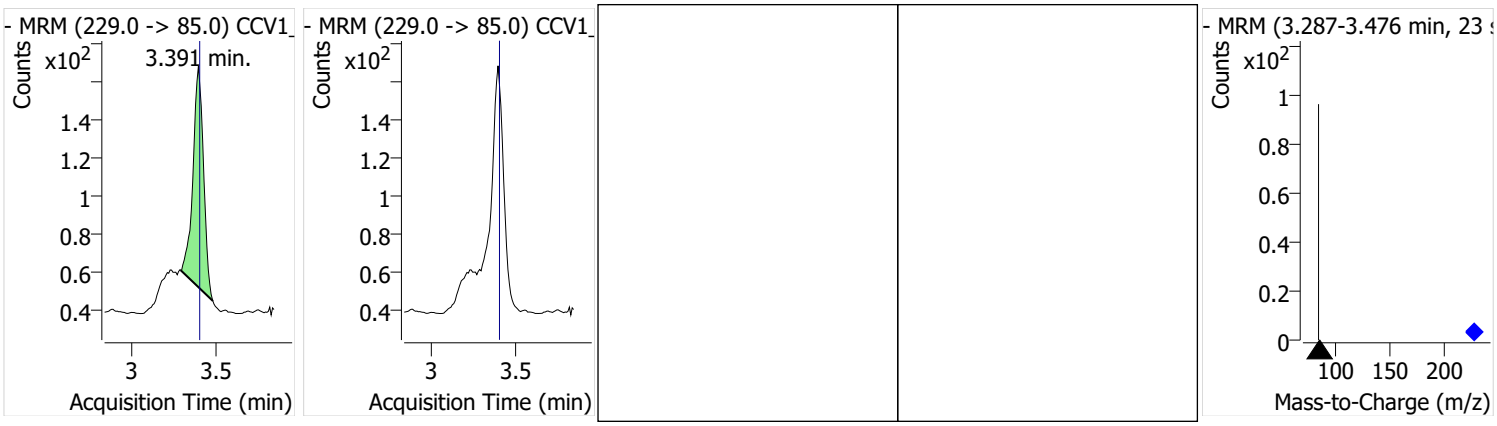

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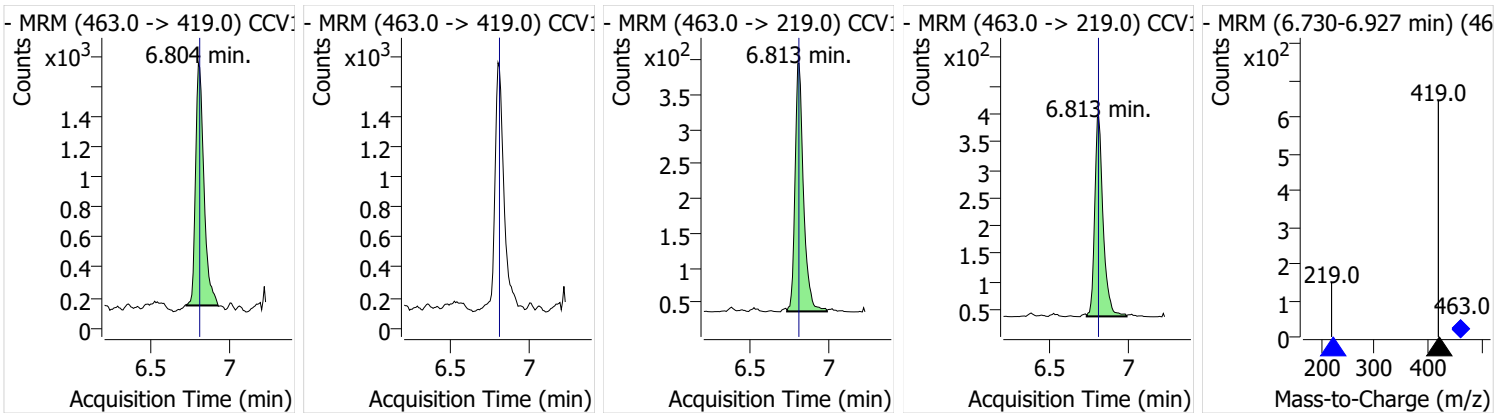

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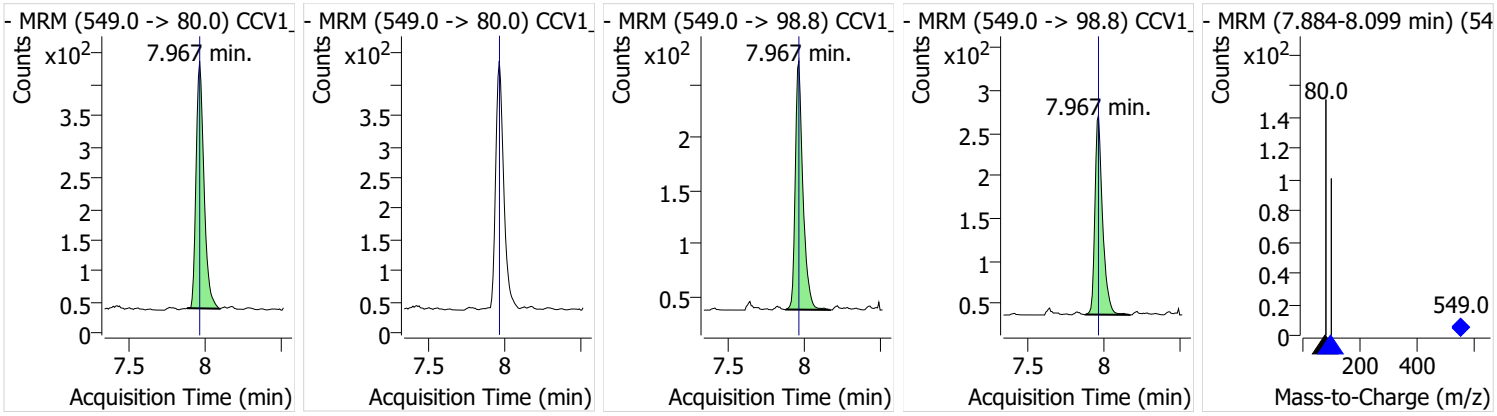

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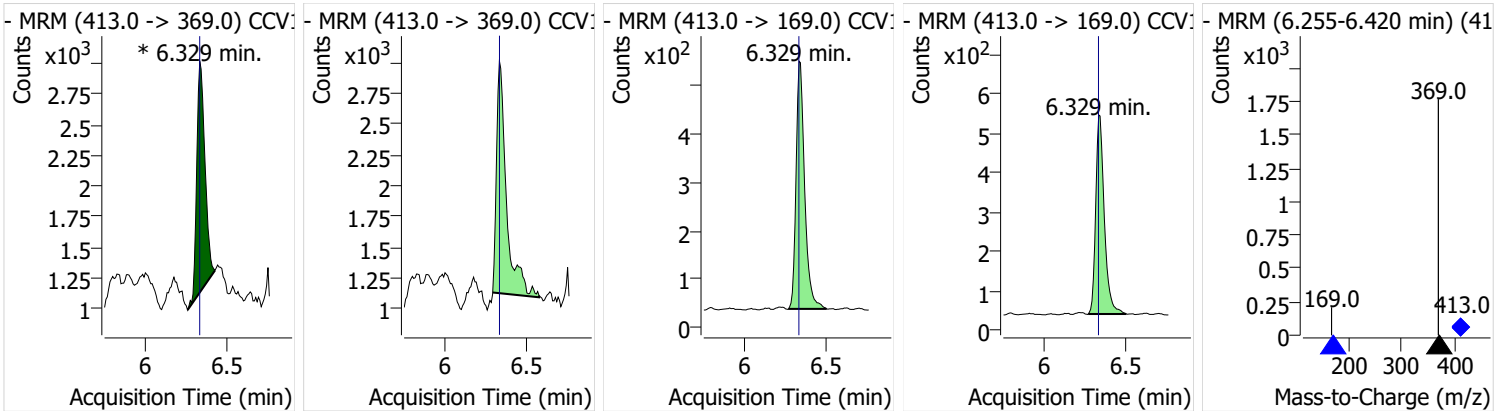

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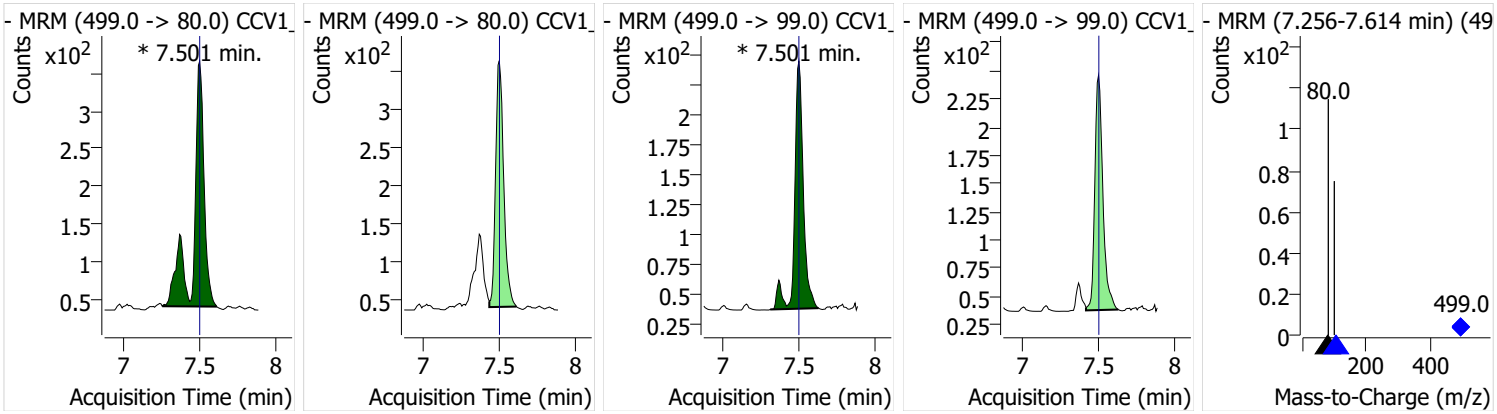

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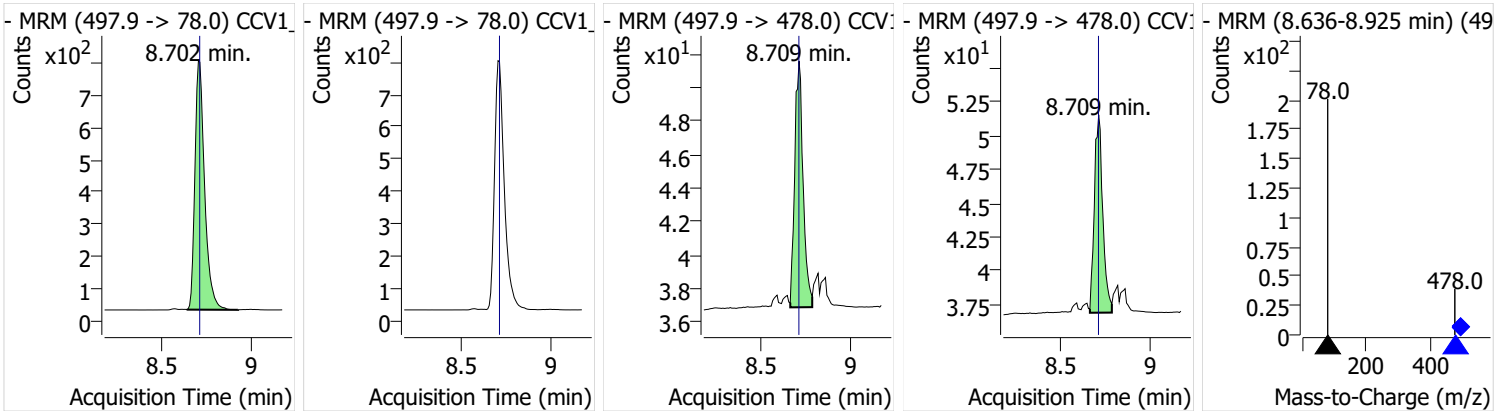

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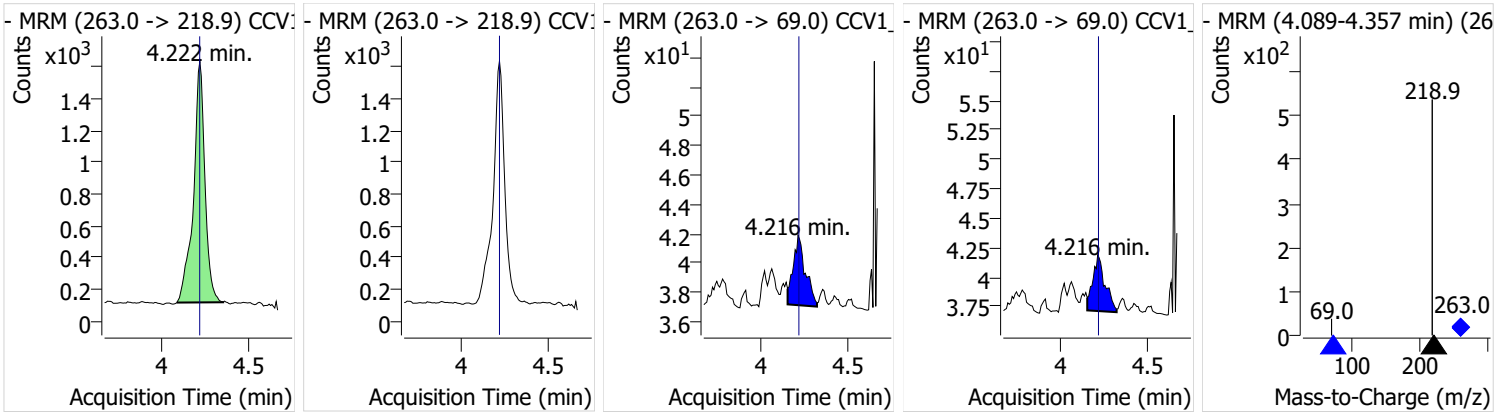

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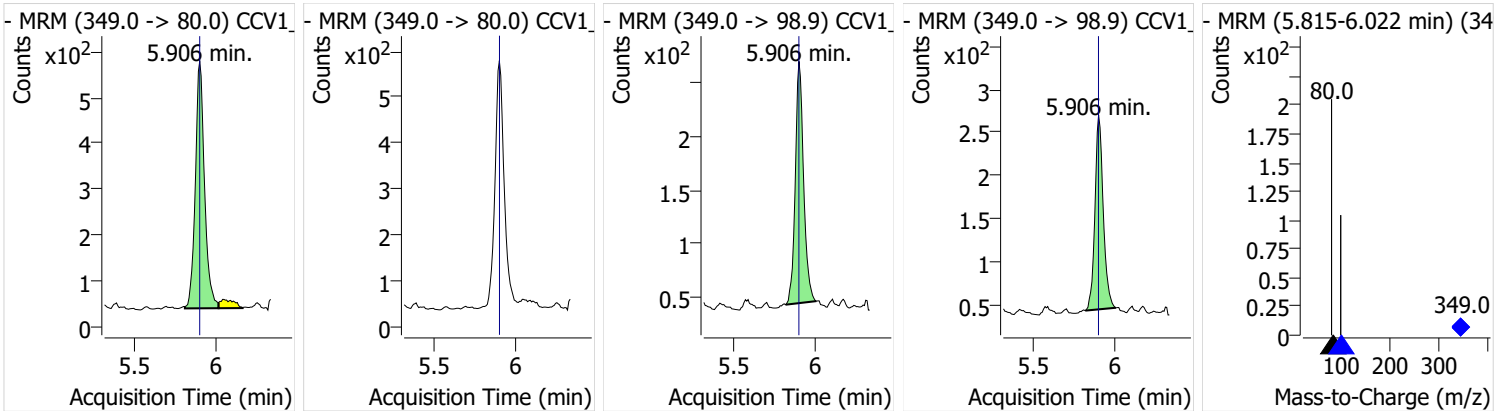

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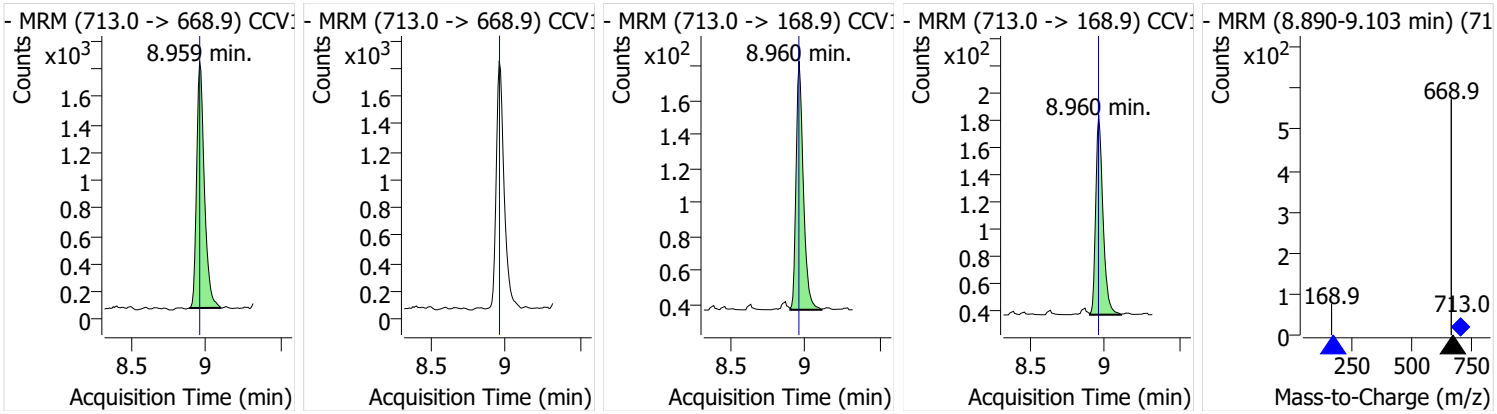

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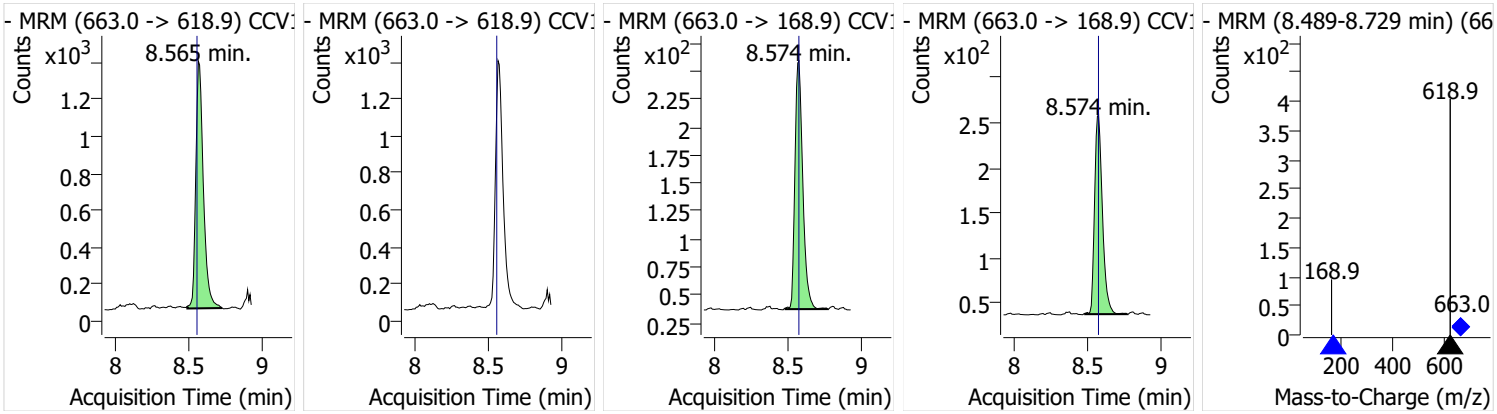

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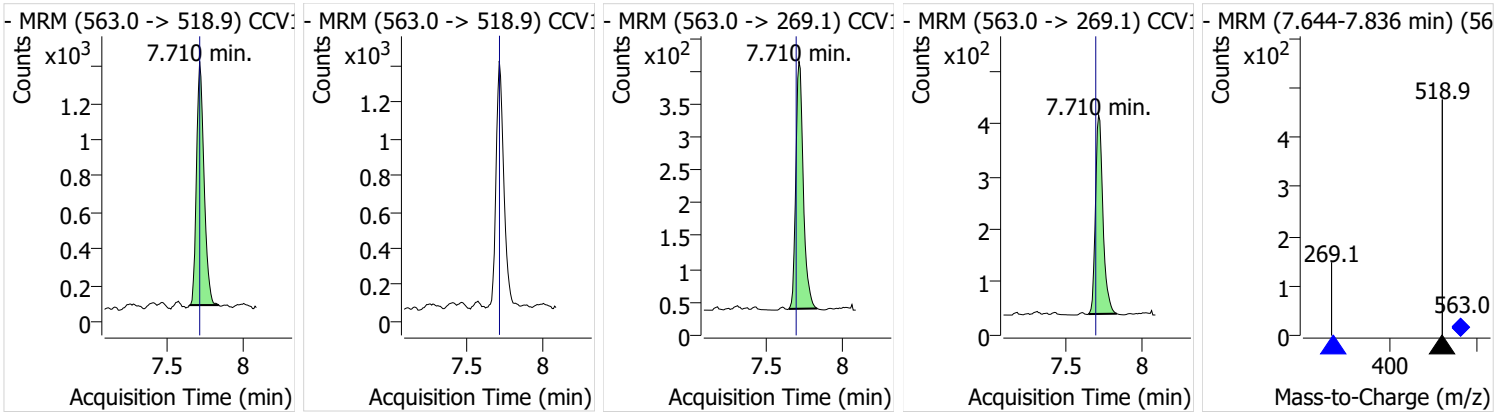

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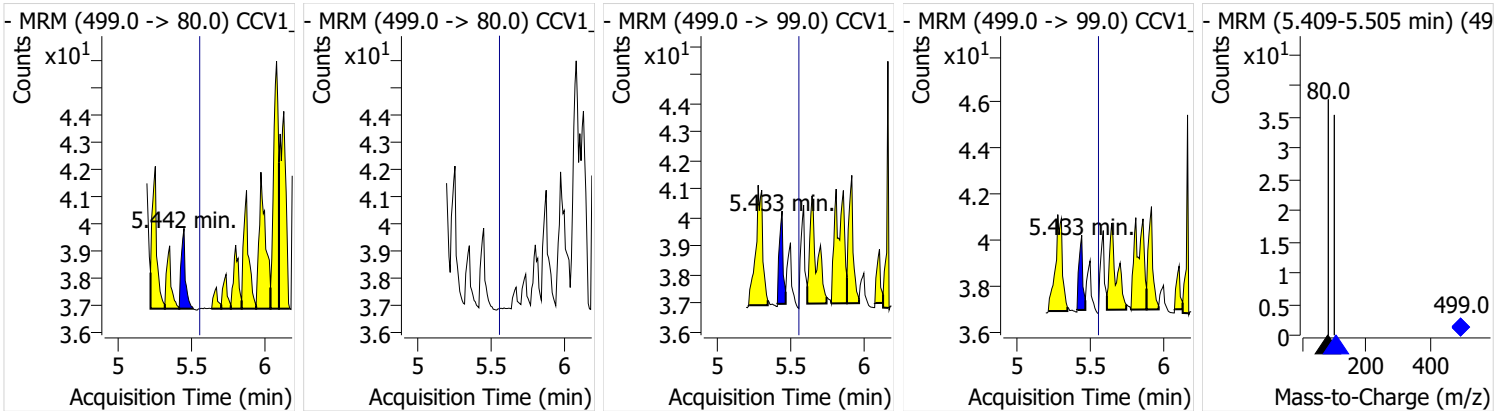

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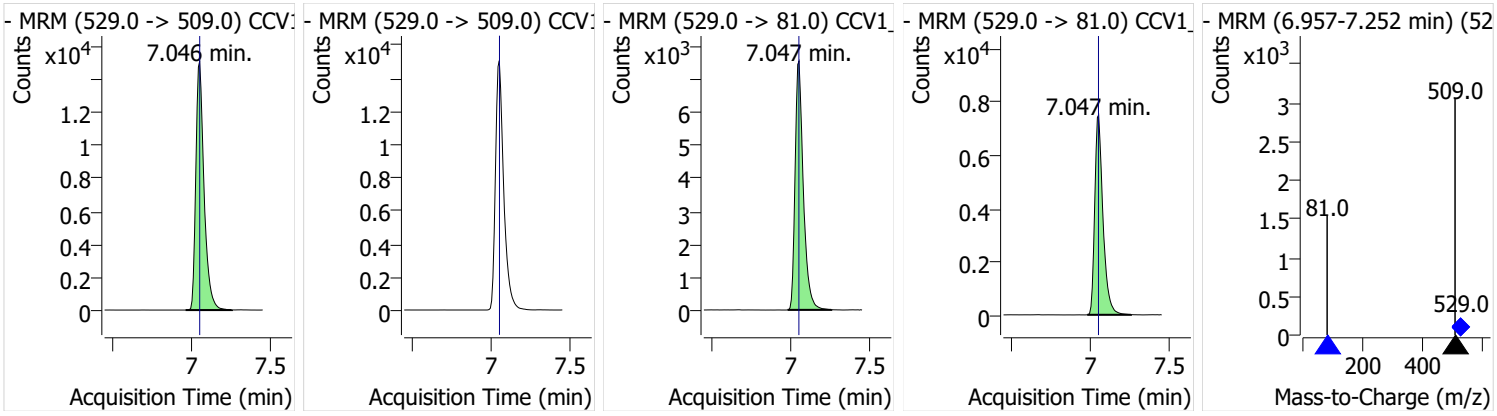

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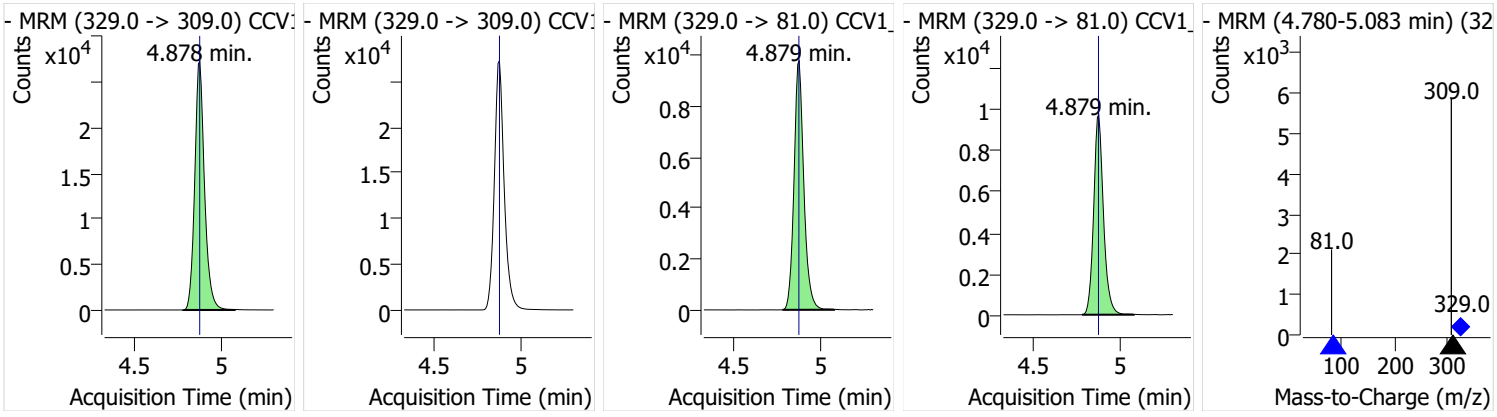

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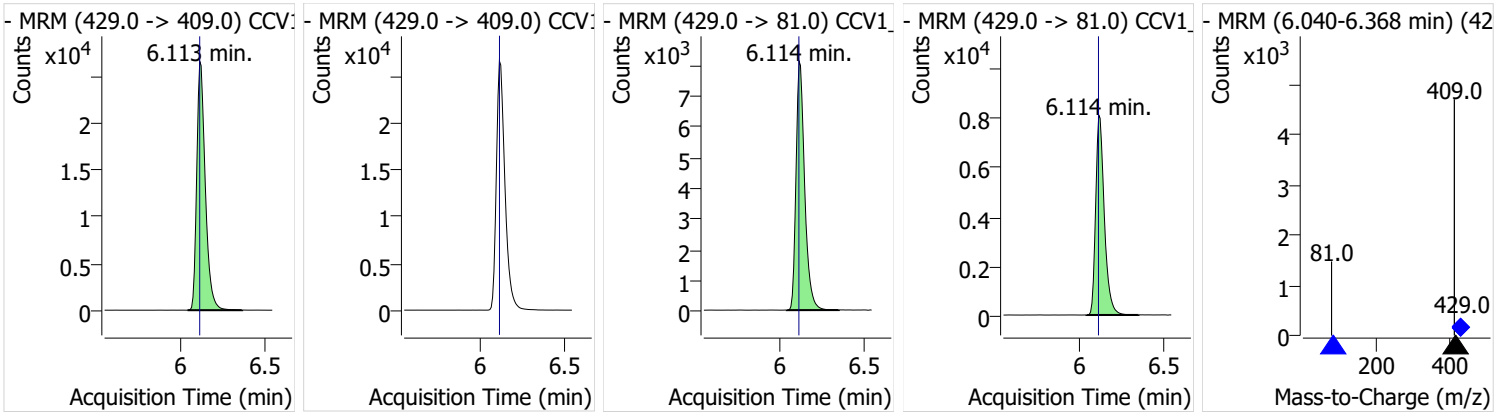

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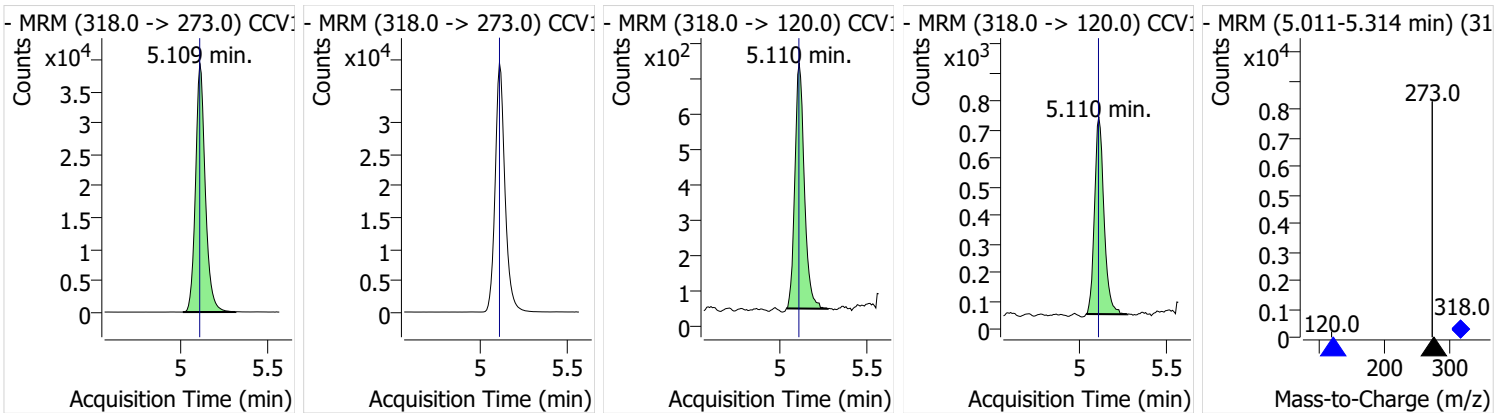

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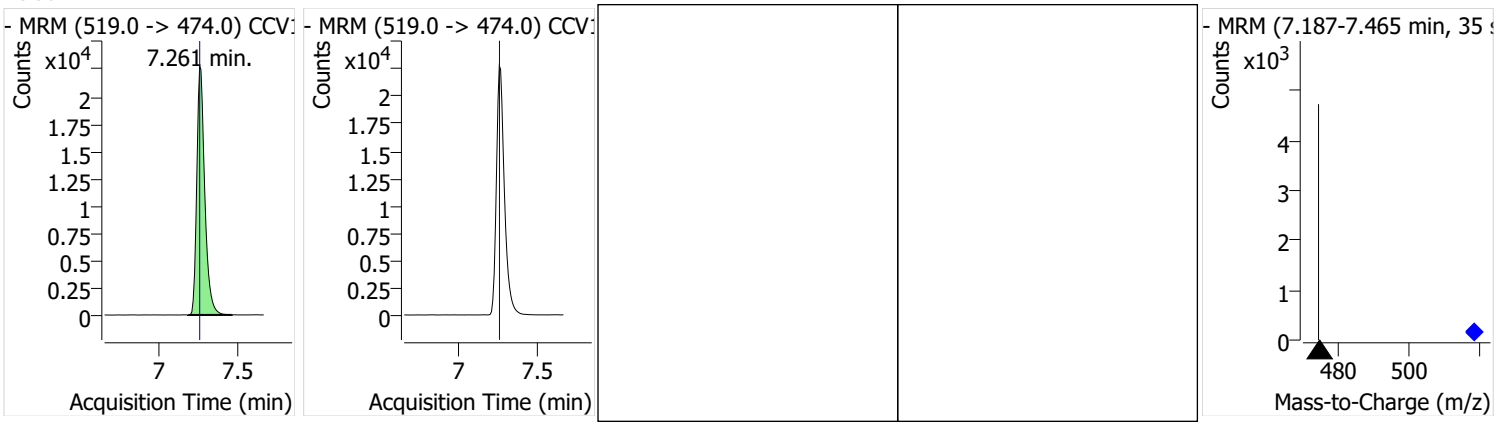

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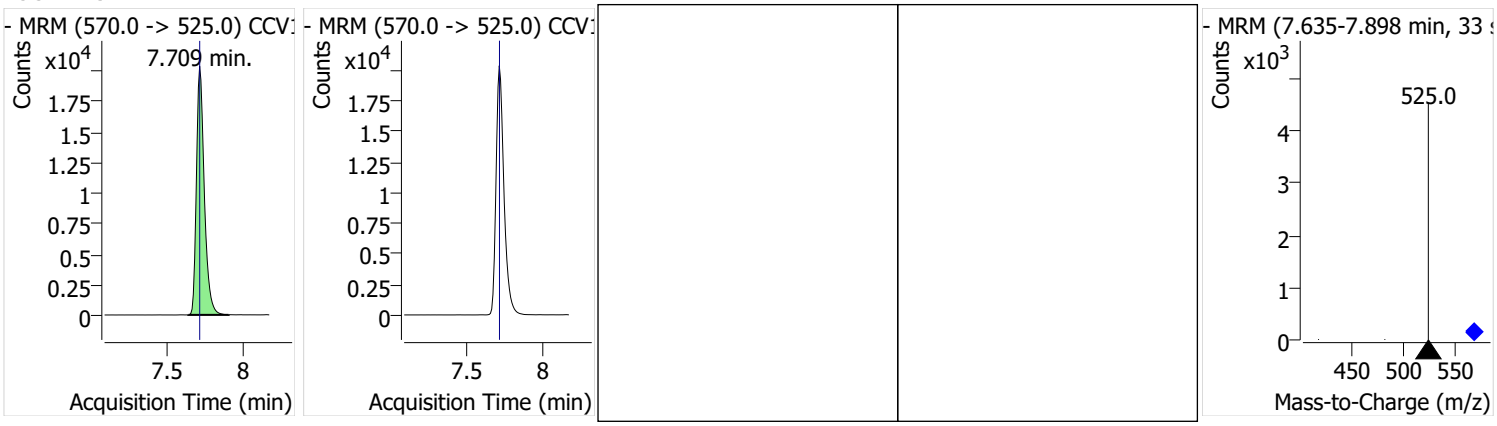

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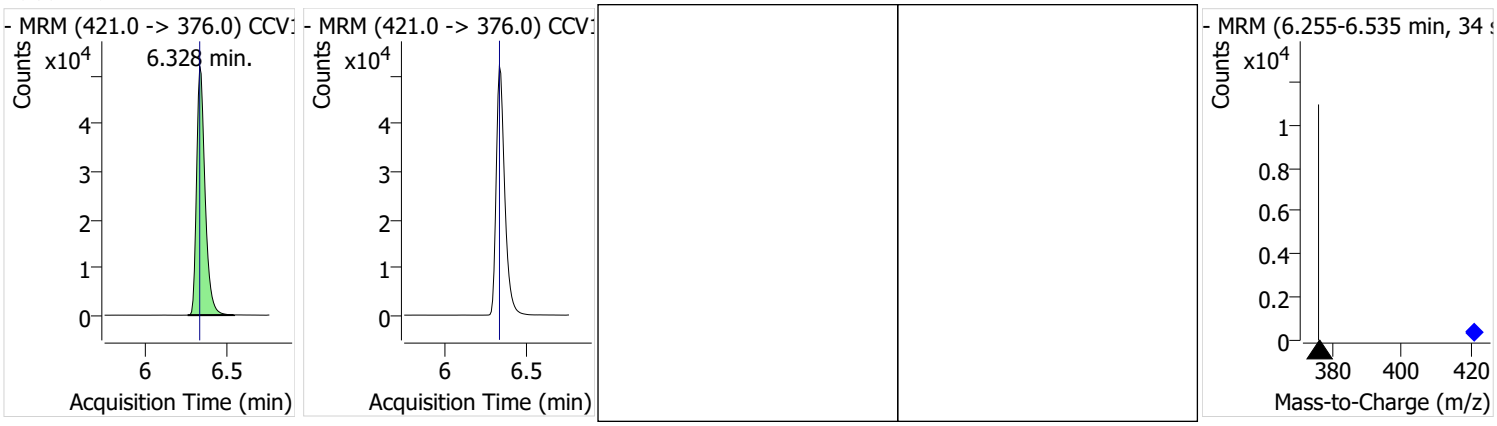

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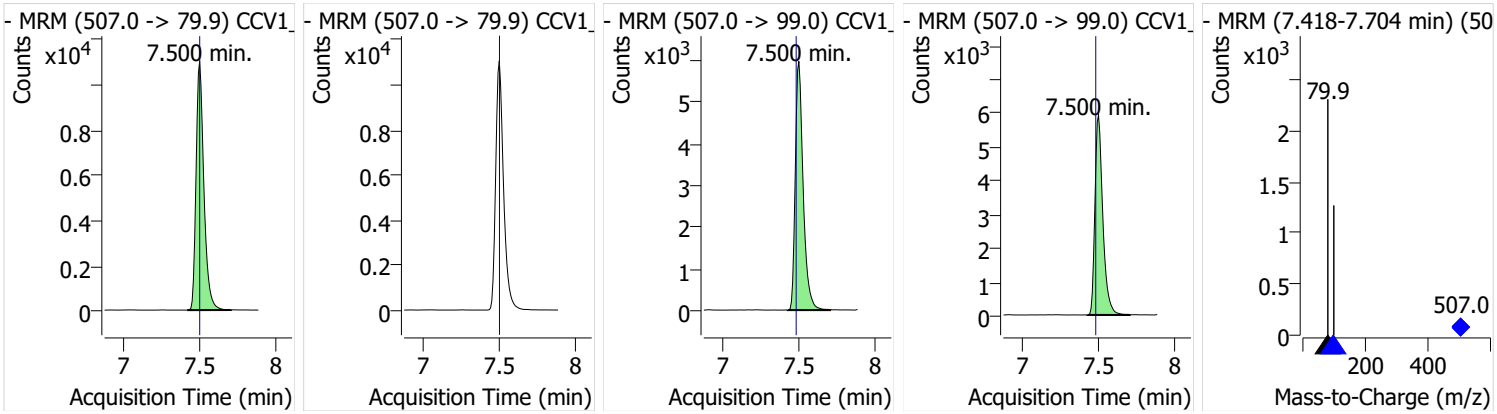

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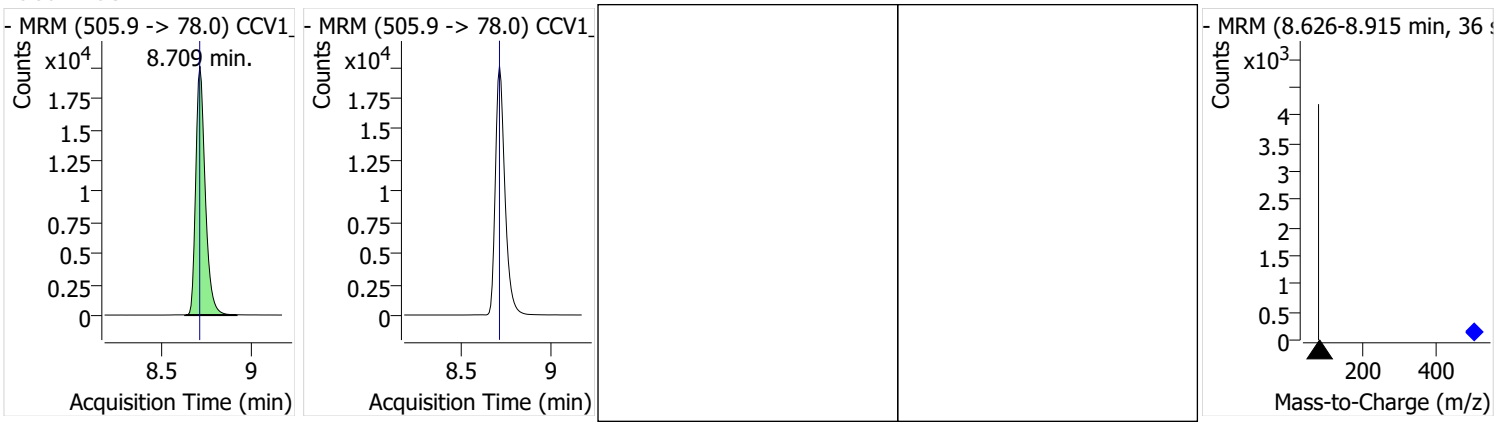

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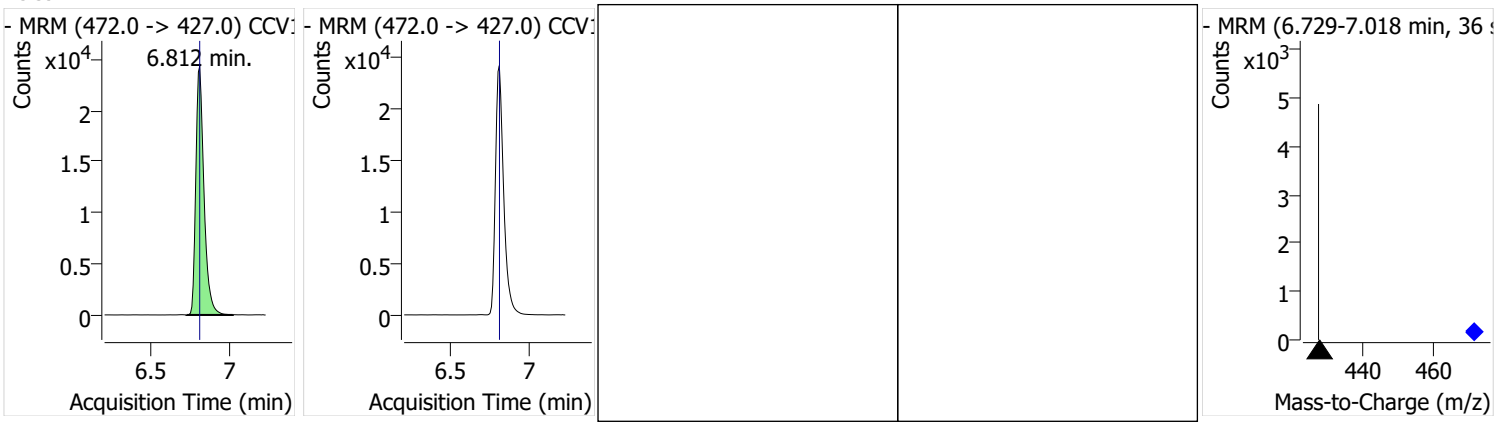

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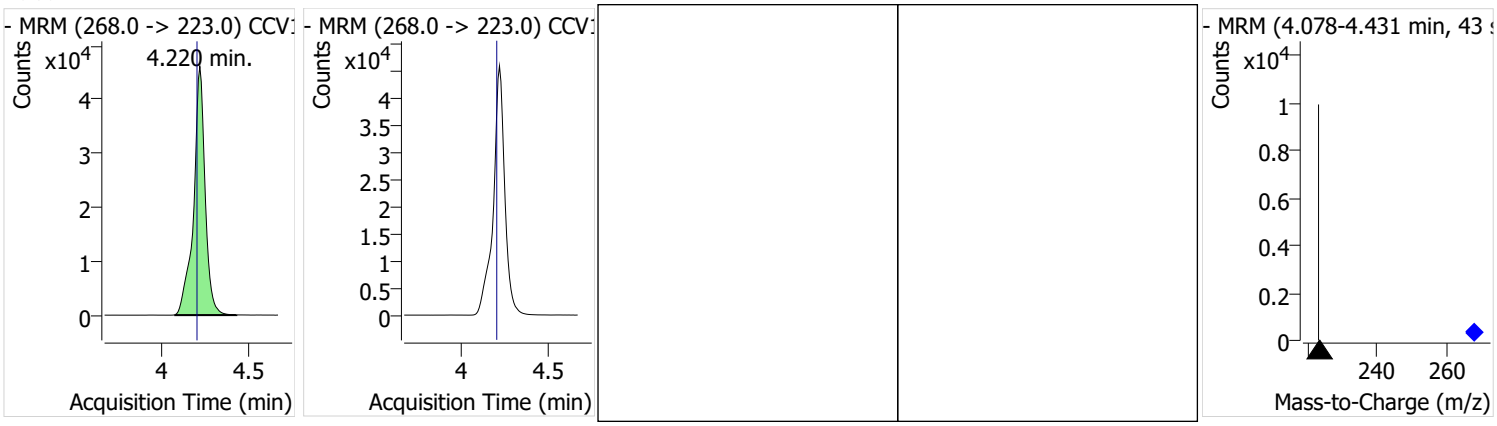

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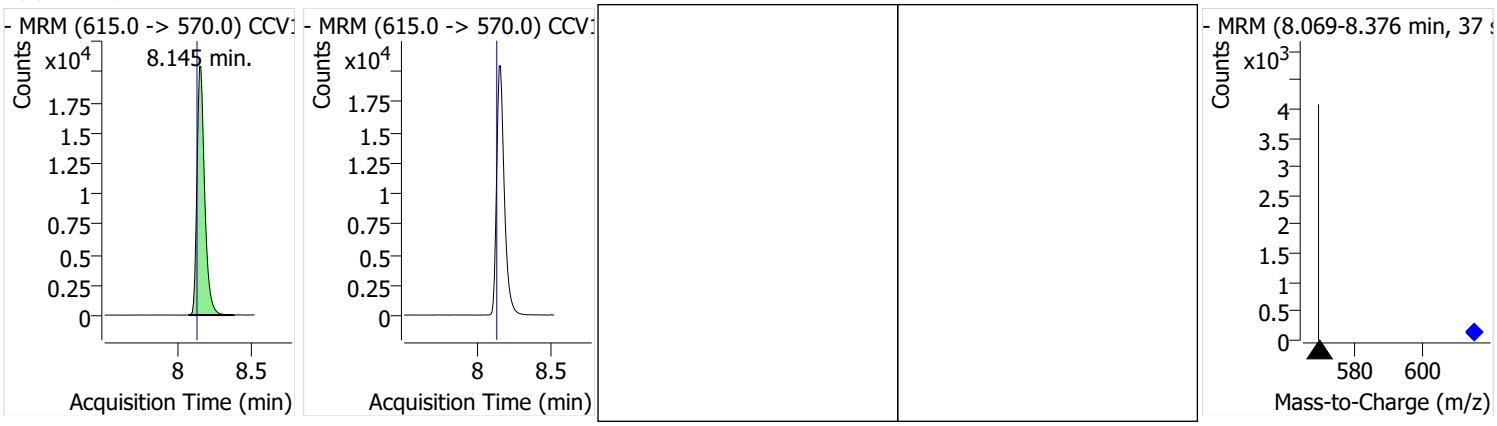
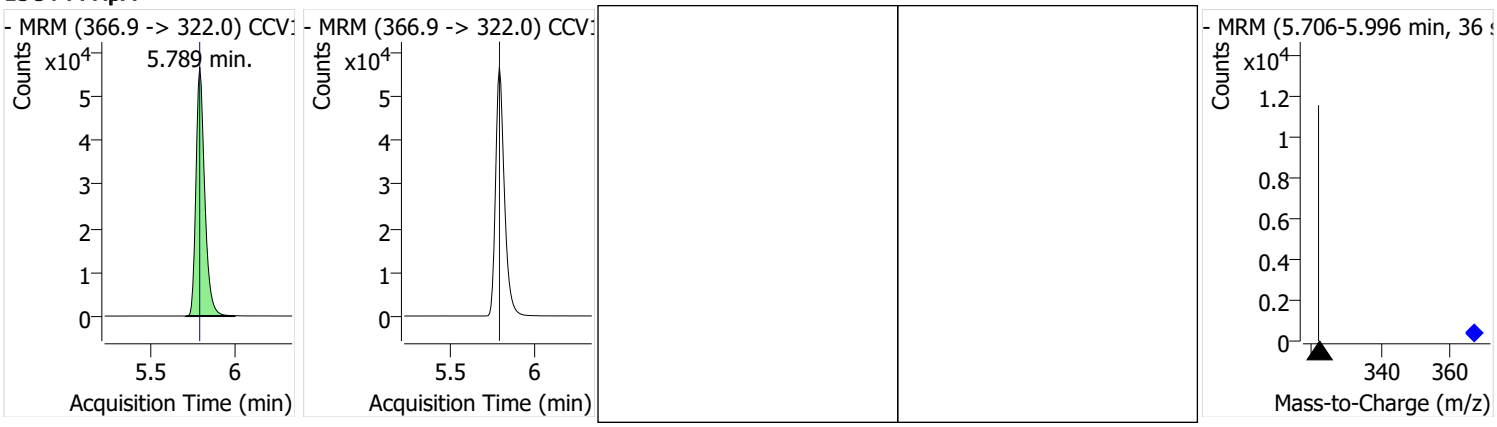
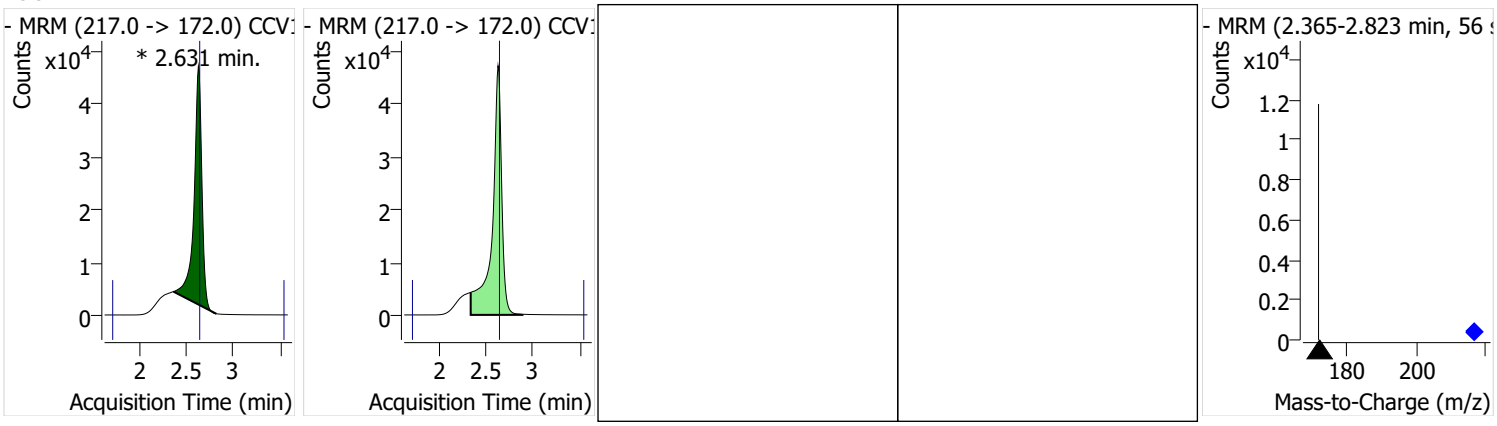


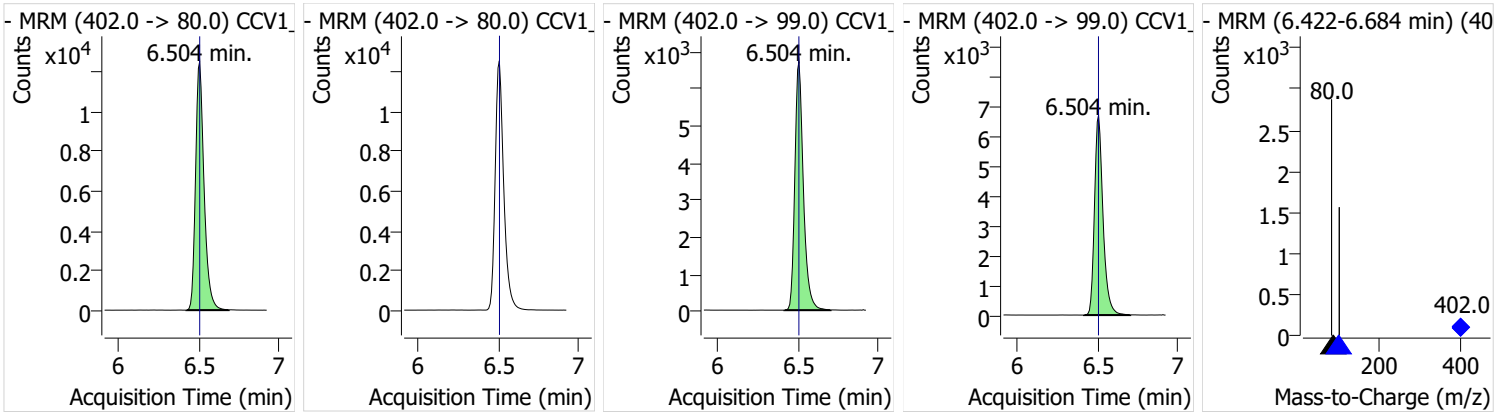
13C4-PFHpA



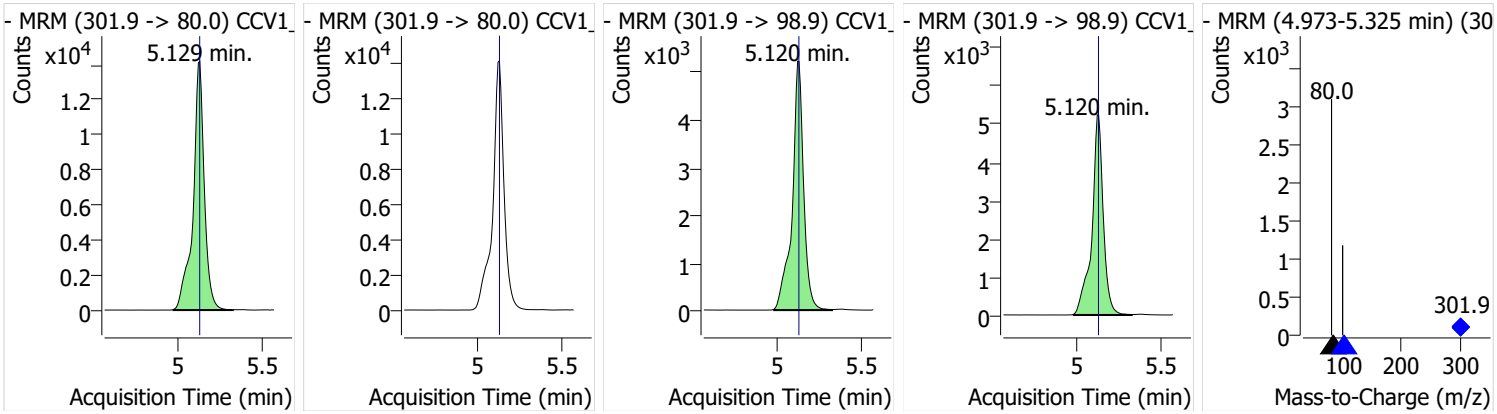
13C4-PFBA



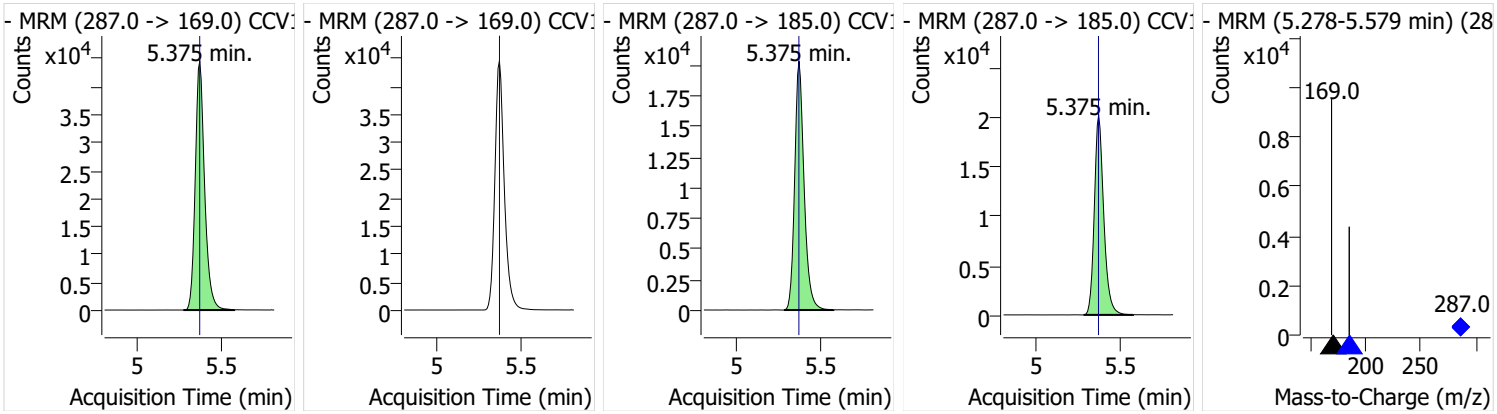
13C3-PFHxS



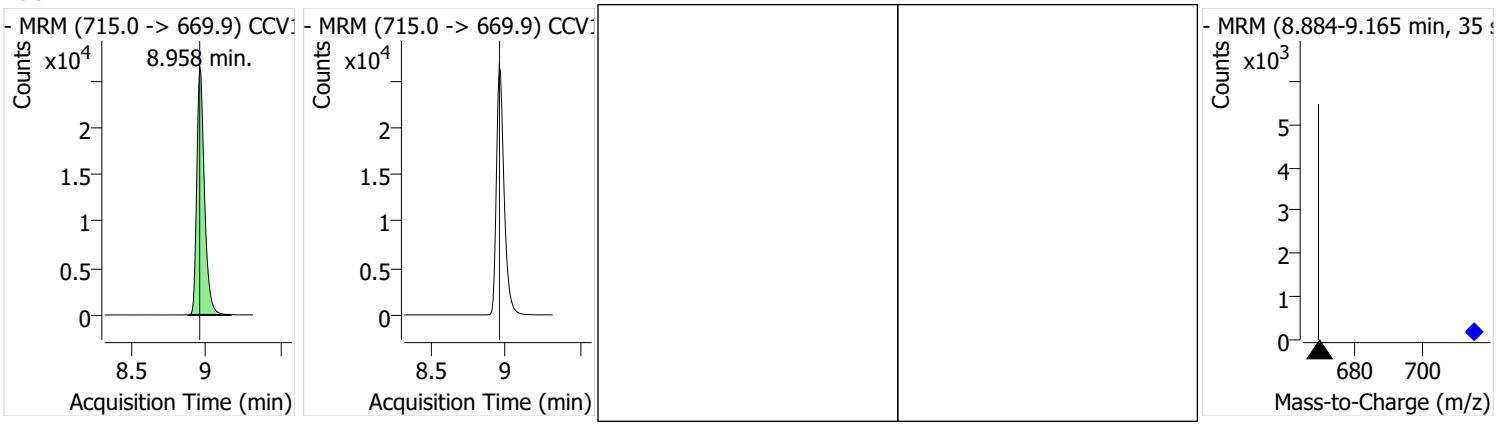
13C3-PFBS



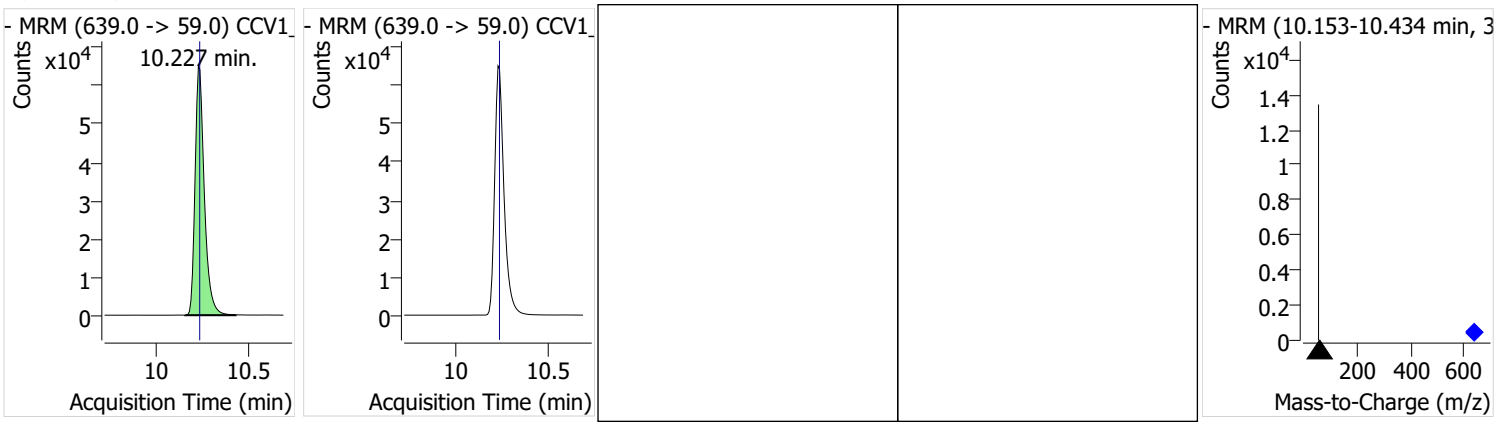
13C3-HFPODA



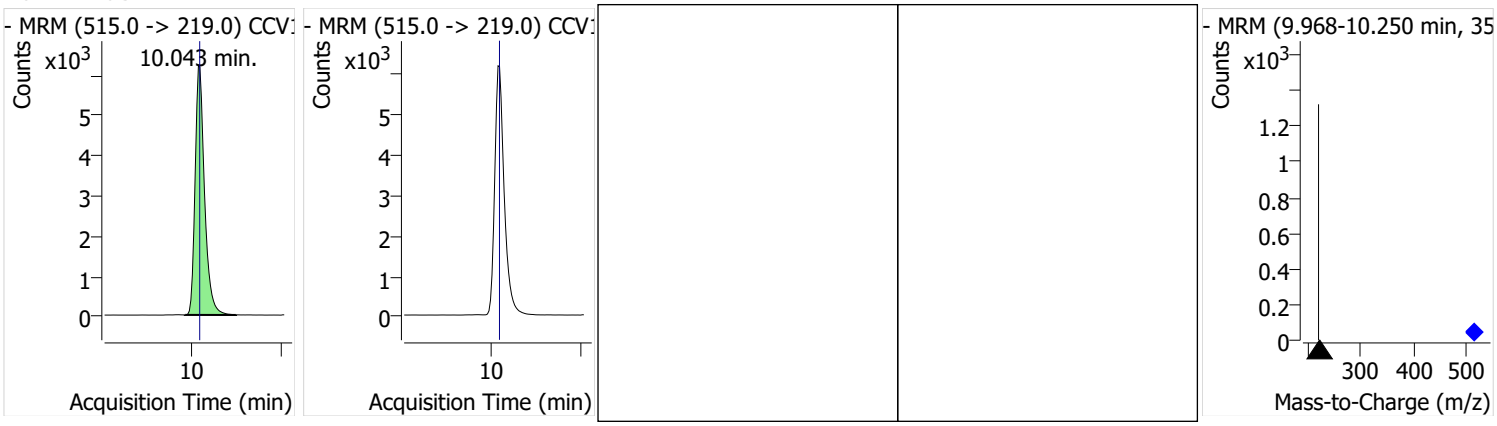
13C2-PFTeDA



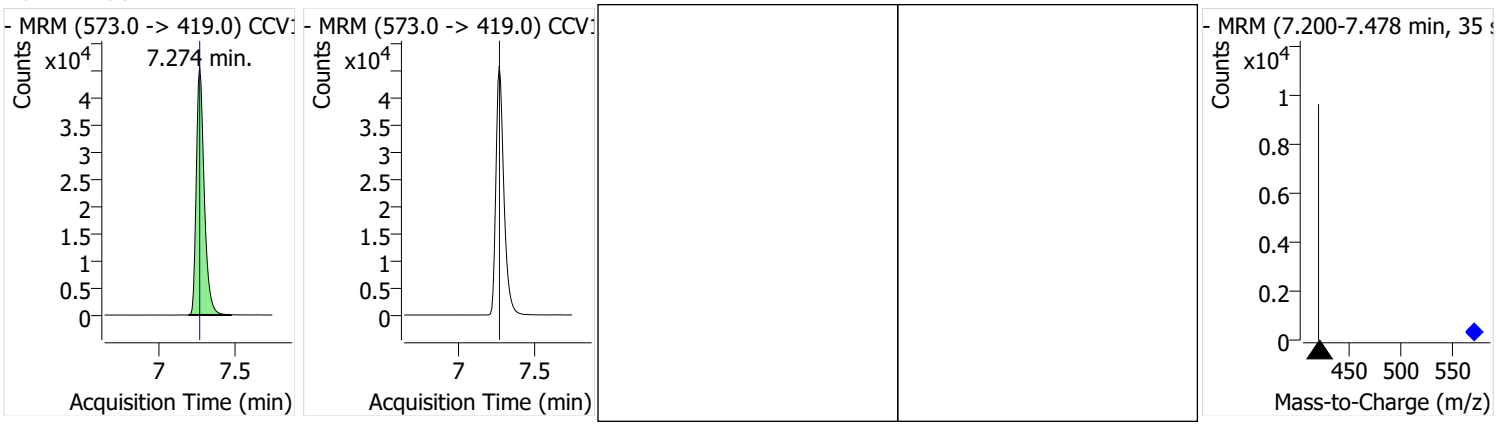
D9-NEtFOSE



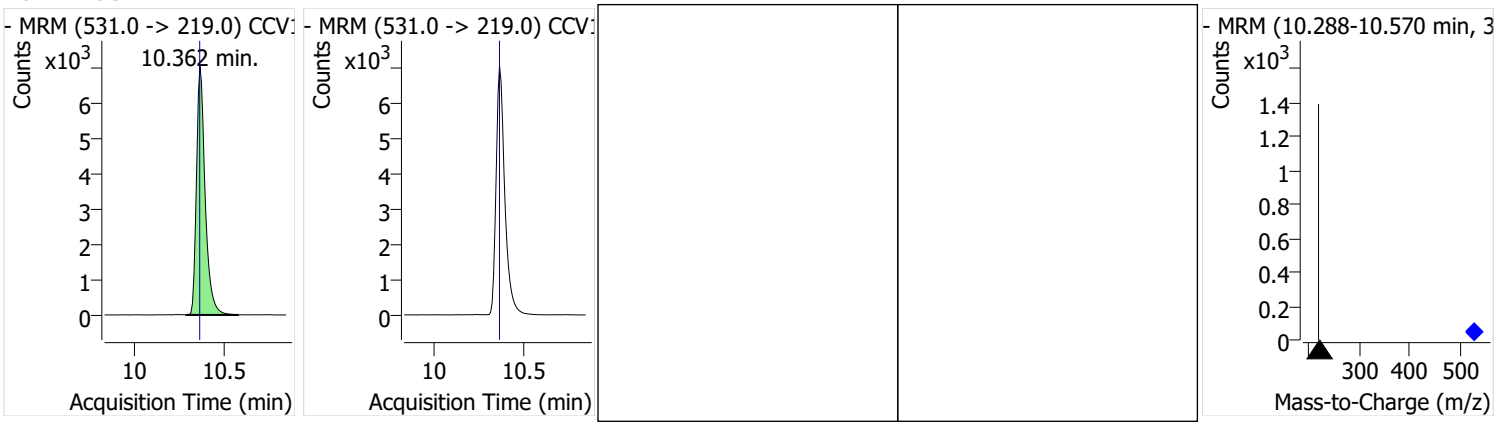
D3-NMeFOSA



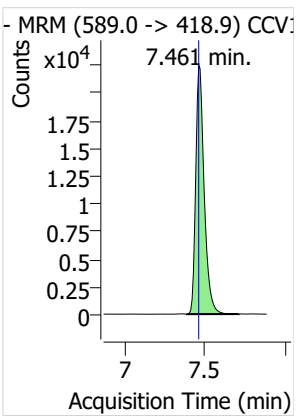
D3-NMeFOSAA

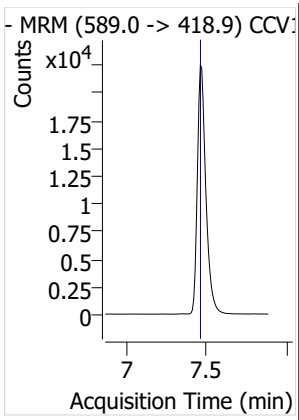


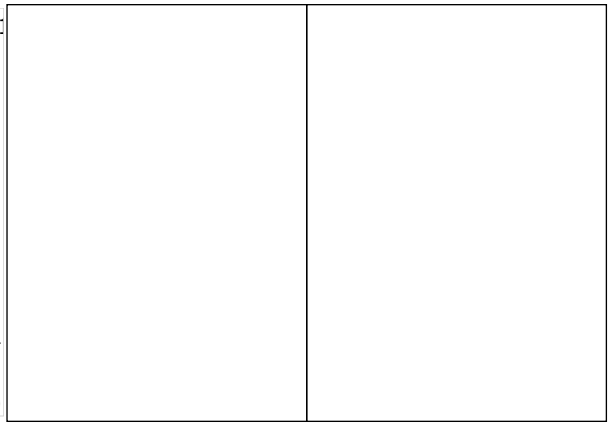
D5-NEtFOSA

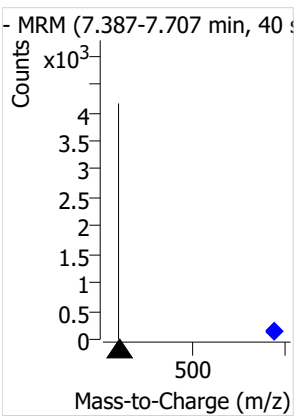


D5-NEtFOSAA

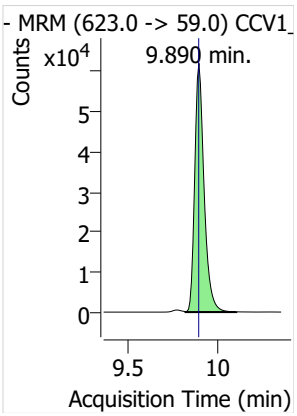


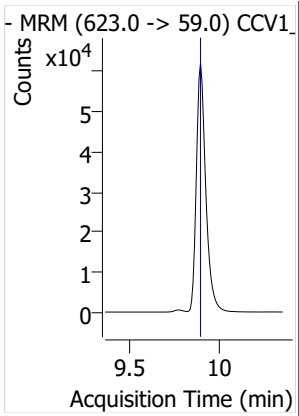


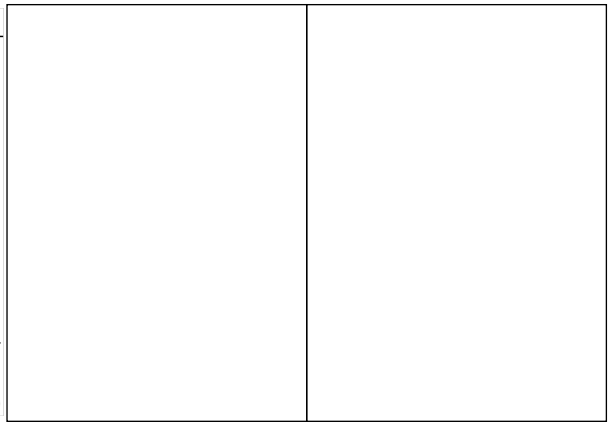


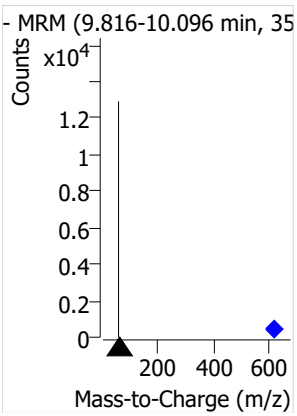


D7-NMeFOSE









7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

Draft Method 1633

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	QQQ5	Calibration:	2400593
Lab File ID:	CCV2_1633_052824.d	Calibration Date:	05/28/24 00:00
Sequence:	S105135	Injection Date:	05/28/24
Lab Sample ID:	S105135-CCV2	Injection Time:	16:38

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Perfluorobutanoic acid (PFBA)	A	10.0	9.89	0.9055443	0.8955442		-1.1	30
Perfluoropentanoic acid (PFPeA)	A	5.00	4.88	0.985154	0.9621579		-2.3	30
Perfluorohexanoic acid (PFHxA)	A	2.50	2.45	0.9796289	0.9588523		-2.1	30
Perfluoroheptanoic acid (PFHpA)	A	2.50	2.38	1.035117	0.9864113		-4.7	30
Perfluorooctanoic acid (PFOA)	A	2.50	2.29	1.147963	1.050555		-8.5	30
Perfluorononanoic acid (PFNA)	A	2.50	2.42	0.9847549	0.9525221		-3.3	30
Perfluorodecanoic acid (PFDA)	A	2.50	2.51	0.9791746	0.9831146		0.4	30
Perfluoroundecanoic acid (PFUnA)	A	2.50	2.38	0.96917	0.9244246		-4.6	30
Perfluorododecanoic acid (PFDoA)	A	2.50	2.40	1.003722	0.9646413		-3.9	30
Perfluorotridecanoic acid (PFTrDA)	A	2.50	2.49	1.039237	1.036756		-0.2	30
Perfluorotetradecanoic acid (PFTeDA)	A	2.50	2.48	0.9678259	0.959533		-0.9	30
Perfluorobutanesulfonic acid (PFBS)	A	2.22	2.12	1.179363	1.129664		-4.2	30
Perfluoropentanesulfonic acid (PFPeS)	A	2.35	2.29	1.354494	1.31983		-2.6	30
Perfluorohexanesulfonic acid (PFHxS)	A	2.29	2.19	1.191169	1.13818		-4.4	30
Perfluoroheptanesulfonic acid (PFHpS)	A	2.38	2.37	1.20285	1.195657		-0.6	30
Perfluorooctanesulfonic acid (PFOS)	A	2.32	2.25	1.211825	1.17603		-3.0	30
Perfluorononanesulfonic acid (PFNS)	A	2.41	2.42	1.076868	1.083209		0.6	30
Perfluorodecanesulfonic acid (PFDS)	A	2.41	2.40	0.8744912	0.8726135		-0.2	30
Perfluorododecanesulfonic acid (PFDoS)	A	2.42	2.59	0.6106218	0.6535902		7.0	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	A	9.38	9.24	3.142915	3.098684		-1.4	30

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

Draft Method 1633

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	QQQ5	Calibration:	2400593
Lab File ID:	CCV2_1633_052824.d	Calibration Date:	05/28/24 00:00
Sequence:	S105135	Injection Date:	05/28/24
Lab Sample ID:	S105135-CCV2	Injection Time:	16:38

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	A	9.50	9.41	2.842618	2.815956		-0.9	30
1H,1H,2H,2H-Perfluorodecan e sulfonic acid (8:2FTS)	A	9.62	9.70	1.79241	1.80957		1.0	30
Perfluorooctanesulfonamide (PFOSA)	A	2.50	2.47	1.076938	1.062678		-1.3	30
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	A	2.50	2.48	1.173375	1.166076		-0.6	30
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	A	2.50	2.40	1.323332	1.267975		-4.2	30
N-MeFOSAA (NMeFOSAA)	A	2.50	2.32	0.3646716	0.338199		-7.3	30
N-EtFOSAA (NEtFOSAA)	A	2.50	2.32	1.057171	0.9818233		-7.1	30
N-methylperfluorooctanesulfo namidoethanol(NMeFOSE)	A	25.0	25.0	1.119899	1.117782		-0.2	30
N-ethylperfluorooctanesulfona midoethanol (NEtFOSE)	A	25.0	24.8	1.148085	1.137086		-1.0	30
Hexafluoropropylene oxide dimer acid (HFPO-DA)	A	10.0	9.06	0.8537594	0.7731669		-9.4	30
4,8-Dioxa-3H-perfluorononano ic acid (ADONA)	A	9.44	8.06	7.516548	6.413302		-14.7	30
9Cl-PF3ONS (F53B Minor)	A	9.38	8.81	5.656091	5.333595		-5.7	30
11Cl-PF3OUdS (F53B Major)	A	9.44	9.36	3.784009	3.748633		-0.9	30
3-Perfluoropropyl propanoic acid (FPrPA)(3:3FTCA)	A	25.0	26.5	4.394286E-02	4.658947E-02		6.0	30
2H,2H,3H,3H-Perfluorooctano ic acid(FPePA)(5:3FTCA)	A	125	122	0.1283846	0.1253662		-2.4	30
3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTCA)	A	125	120	0.1607822	0.1548915		-3.7	30
Perfluoro(2-ethoxyethane)sulf onic acid (PFEESA)	A	4.45	4.45	1.467067	1.467611		0.04	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	A	5.00	5.18	6.968996E-02	7.223148E-02		3.6	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	A	5.00	4.94	0.6583079	0.6503578		-1.2	30
Nonafluoro-3,6-dioxaheptanoi c acid (NFDHA)	A	5.00	4.42	7.003551E-02	6.196978E-02		-11.5	30
13C4-PFBA	A	10.0	10.4	1.092274	1.139014		4.3	30

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CONTINUING CALIBRATION VERIFICATION

Draft Method 1633

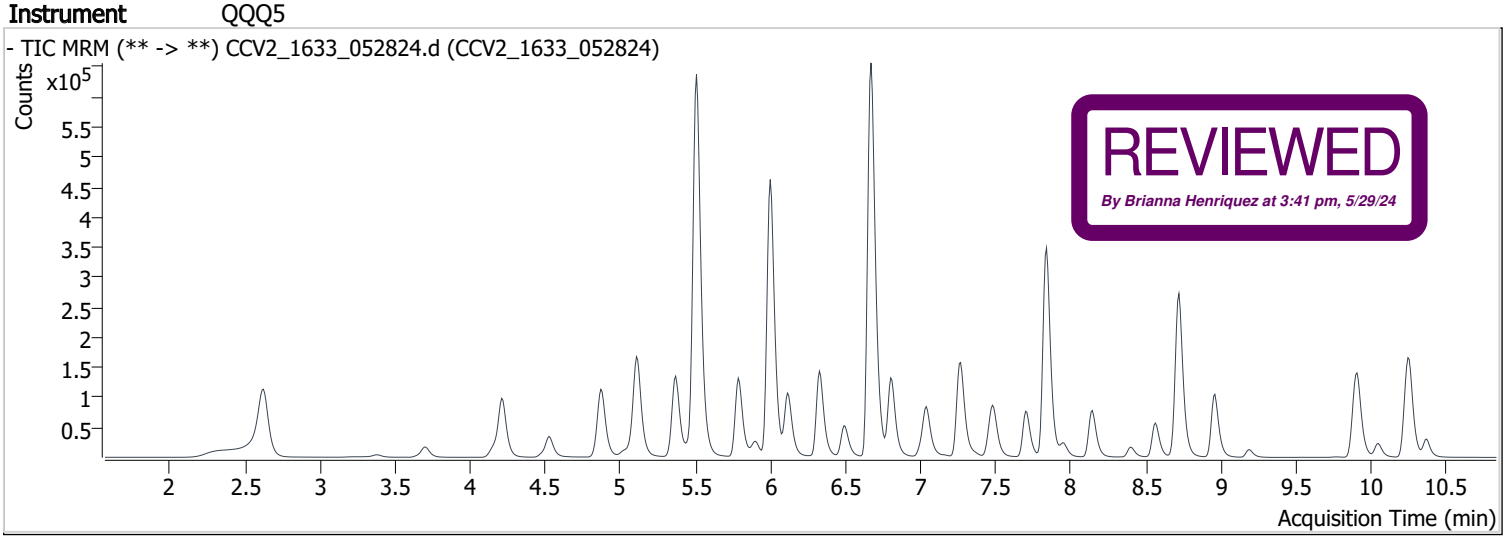
Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	QQQ5	Calibration:	2400593
Lab File ID:	CCV2_1633_052824.d	Calibration Date:	05/28/24 00:00
Sequence:	S105135	Injection Date:	05/28/24
Lab Sample ID:	S105135-CCV2	Injection Time:	16:38

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
13C5-PFPeA	A	5.00	4.76	0.7854588	0.747583		-4.8	30
13C5-PFHxA	A	2.50	2.59	1.059253	1.097822		3.6	30
13C4-PFHpA	A	2.50	2.61	1.381858	1.441123		4.3	30
13C8-PFOA	A	2.50	2.66	8.180126	8.691765		6.3	30
13C9-PFNA	A	1.25	1.28	0.7691169	0.788091		2.5	30
13C6-PFDA	A	1.25	1.28	0.9953557	1.018743		2.3	30
13C7-PFUnA	A	1.25	1.33	0.9305727	0.9869727		6.1	30
13C2-PFDoA	A	1.25	1.34	0.9604648	1.027281		7.0	30
13C2-PFTeDA	A	1.25	1.40	1.295151	1.445567		11.6	30
13C3-PFBS	A	2.50	2.55	1.484657	1.512915		1.9	30
13C3-PFHxS	A	2.50	2.59	1.025978	1.062008		3.5	30
13C8-PFOS	A	2.50	2.58	0.9272679	0.9579409		3.3	30
13C2-4:2FTS	A	5.00	4.84	1.272731	1.232129		-3.2	30
13C2-6:2FTS	A	5.00	5.08	1.131247	1.148239		1.5	30
13C2-8:2FTS	A	5.00	5.38	0.6827405	0.7343874		7.6	30
13C8-PFOSA	A	2.50	2.61	1.675551	1.752104		4.6	30
D3-NMeFOSA	A	2.50	2.49	0.547367	0.5443406		-0.6	30
D5-NEtFOSA	A	2.50	2.61	0.5572248	0.5823557		4.5	30
D3-NMeFOSAA	A	5.00	5.37	1.857945	1.99419		7.3	30
D5-NEtFOSAA	A	5.00	5.58	0.9301541	1.037503		11.5	30
D7-NMeFOSE	A	25.0	29.7	0.50654	0.601725		18.8	30
D9-NEtFOSE	A	25.0	32.0	0.5420359	0.6948725		28.2	30
13C3-HFPO-DA	A	10.0	10.8	0.3037858	0.3273206		7.7	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CCVS.batch.bin		
Analysis Time	5/29/2024 11:23 AM	**Last Calib Update**	5/29/2024 8:40 AM
Acq. Time	5/28/2024 4:38 PM	**Data File**	CCV2_1633_052824.d
Sample Type	CC	**Sample Name**	CCV2_1633_052824
Dilution	1	**Acq. Method**	1633_ACQUISITION.m
Sample Comment	E#24E0158	**Processing method**	1633_052824.m
Instrument	QQQ5		



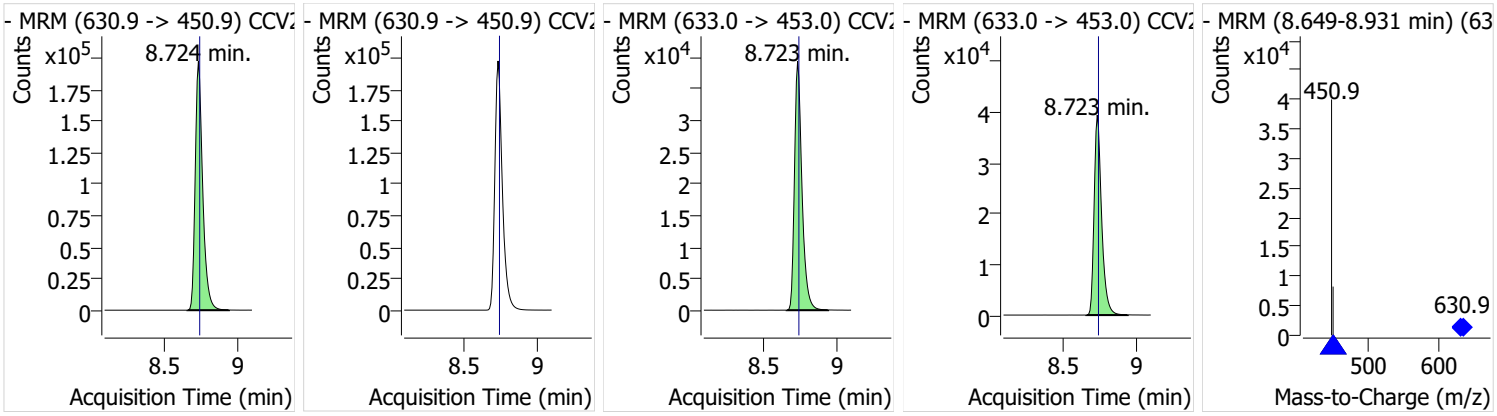
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
11Cl-PF3OUdS	8.724	694728	171454.79		13C3-HFPODA - ISTD	5.375	196322	9.3580	ng/ml			
633.0 -> 453.0			50077.92	20.0								
3:3FTCA	3.707	52226	17467.79		13C5-PFPeA - ISTD	4.212	224195	26.5057	ng/ml			
241.0 -> 117.0			4898.84	52.0								
4:2FTS	4.871	218757	80317.51		13C2-4:2FTS - ISTD	4.870	37632	9.2384	ng/ml			
327.0 -> 80.9			11366.34	34.9								
5:3FTCA	5.509	1031855	110228.13		13C5-PFHxA - ISTD	5.109	164614	122.0612	ng/ml			
341.0 -> 217.0			158321.08	89.5								
6:2FTS	6.114	161880	72218.85		13C2-6:2FTS - ISTD	6.114	30256	9.4109	ng/ml			
427.0 -> 80.9			10530.56	36.8								
7:3FTCA	6.674	1274869	9809.98		13C5-PFHxA - ISTD	5.109	164614	120.4203	ng/ml			
441.0 -> 317.0			4561.23	91.9								
8:2FTS	7.039	103867	101808.01		13C2-8:2FTS - ISTD	7.039	29833	9.6969	ng/ml			
527.0 -> 81.0			9574.74	59.1								
9Cl-PF3ONS	7.843	982183	88399.85		13C3-HFPODA - ISTD	5.375	196322	8.8138	ng/ml			
533.0 -> 353.0			12012.14	27.2								
ADONA	6.004	1188566	118407.87		13C3-HFPODA - ISTD	5.375	196322	8.0598	ng/ml			
377.0 -> 85.1			84582.78	39.2								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA	5.376	151790	58770.35		13C3-HFPODA - ISTD	5.375	196322	9.0560	ng/ml			
285.0 -> 184.9			4070.91	46.9								
NEtFOSA	10.373	33532	11894.83		D5-NEtFOSA - ISTD	10.362	26445	2.3954	ng/ml			
526.0 -> 219.0			28582.24	98.8								
NEtFOSAA	7.470	46258	9524.35		D5-NEtFOSAA - ISTD	7.461	94228	2.3218	ng/ml	✔	3	AMS 05/29/24
584.0 -> 526.0			1051.04	63.8								
NEtFOSE	10.253	358807	92260.64		D9-NEtFOSE - ISTD	10.236	315549	24.7605	ng/ml			
NFDHA	5.023	20402	5430.00		13C5-PFHxA - ISTD	5.109	164614	4.4242	ng/ml			
295.0 -> 85.0			3175.18	32.1								
NMeFOSA	10.053	28824	26776.49		D3-NMeFOSA - ISTD	10.051	24719	2.4844	ng/ml			
512.0 -> 219.0			15165.80	87.0								
NMeFOSAA	7.275	30627	11909.73		D3-NMeFOSAA - ISTD	7.274	181117	2.3185	ng/ml	✔	3	AMS 05/29/24
570.0 -> 418.9			3510.23	59.9								
NMeFOSE	9.915	305434	95009.94		D7-NMeFOSE - ISTD	9.890	273250	24.9527	ng/ml			
PFBA	2.628	245842	12863.46		13C4-PFBA - ISTD	2.623	274517	9.8896	ng/ml	✔	3	AMS 05/29/24
PFBS	5.121	70925	7158.70		13C3-PFBS - ISTD	5.120	70702	2.1237	ng/ml			
298.9 -> 98.8			5048.59	39.8								
PFDA	7.262	167517	4482.23		13C6-PFDA - ISTD	7.261	85197	2.5101	ng/ml			
513.0 -> 219.0			269750.17	21.0								
PFDoA	8.145	165747	4500.27		13C2-PFDoA - ISTD	8.145	85911	2.4027	ng/ml			
613.0 -> 319.0			12761.72	17.1								
PFDoS	9.189	27522	10552.47		13C8-PFOS - ISTD	7.492	43501	2.5926	ng/ml			
698.9 -> 99.0			6610.64	66.4								
PFDS	8.403	36593	9286.36		13C8-PFOS - ISTD	7.492	43501	2.4047	ng/ml			
599.0 -> 98.8			8616.07	59.0								
PFEESA	5.511	430030	38827.43		13C5-PFHxA - ISTD	5.109	164614	4.4546	ng/ml			
315.0 -> 83.0			3406.36	7.0								
PFHpA	5.789	213155	5450.27		13C4-PFHpA - ISTD	5.789	216091	2.3824	ng/ml			
362.9 -> 169.0			6121.49	15.8								
PFHpS	7.011	49516	6530.89		13C8-PFOS - ISTD	7.492	43501	2.3687	ng/ml			
449.0 -> 98.8			5487.55	50.0								

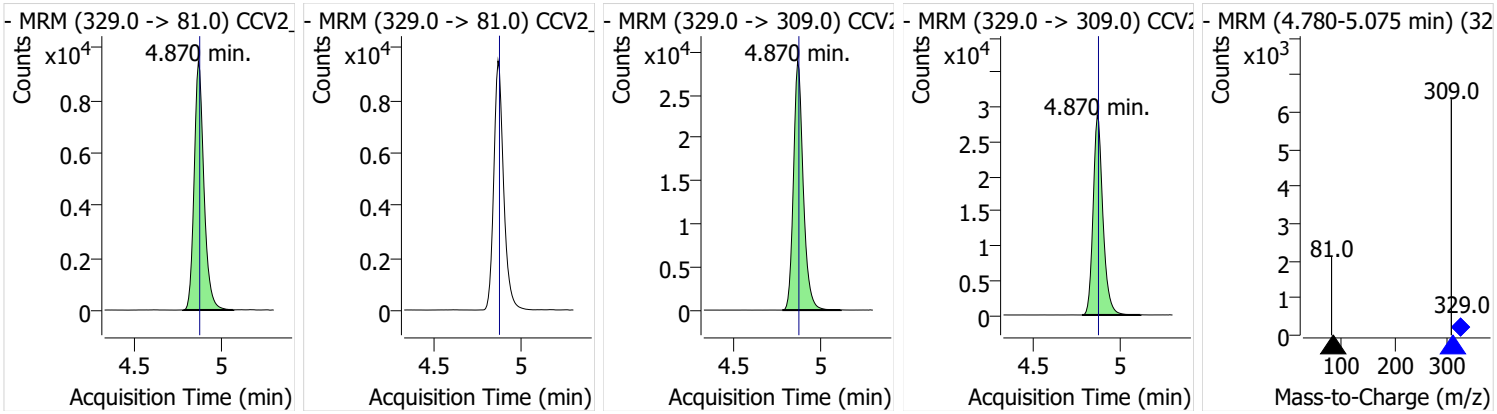
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFHxA	5.111	157841	4680.45		13C5-PFHxA - ISTD	5.109	164614	2.4470	ng/ml			
313.0 -> 118.9			693.55	2.9								
PFHxS	6.497	51743	1873.07		13C3-PFHxS - ISTD	6.496	49630	2.1859	ng/ml	✔	3	AMS 05/29/24
398.9 -> 99.0			6109.71	47.5								
PFMBA	4.530	145807	141155.96		13C5-PFPeA - ISTD	4.212	224195	4.9396	ng/ml			
PFMPA	3.382	16194	9665.00		13C5-PFPeA - ISTD	4.212	224195	5.1823	ng/ml	✔	3	AMS 05/29/24
PFNA	6.804	183240	7168.88		13C9-PFNA - ISTD	6.804	96187	2.4182	ng/ml			
463.0 -> 219.0			10675.27	22.7								
PFNS	7.959	45424	10250.05		13C8-PFOS - ISTD	7.492	43501	2.4245	ng/ml			
549.0 -> 98.8			7154.13	54.2								
PFOA	6.329	216348	1621.58		13C8-PFOA - ISTD	6.328	205937	2.2879	ng/ml			
413.0 -> 169.0			8999.30	23.1								
PFOS	7.493	47475	1672.77		13C8-PFOS - ISTD	7.492	43501	2.2510	ng/ml	✔	3	AMS 05/29/24
499.0 -> 99.0			1799.89	49.6								
PFOSA	8.710	84552	403589.46		13C8-PFOSA - ISTD	8.709	79565	2.4669	ng/ml			
497.9 -> 478.0			1928.87	2.5								
PFPeA	4.214	215711	13479.80		13C5-PFPeA - ISTD	4.212	224195	4.8833	ng/ml			
263.0 -> 69.0			345.59	0.3								
PFPeS	5.906	61573	8469.79		13C3-PFHxS - ISTD	6.496	49630	2.2902	ng/ml			
349.0 -> 98.9			5404.30	48.5								
PFTeDA	8.959	232000	26473.95		13C2-PFTeDA - ISTD	8.958	120892	2.4786	ng/ml			
713.0 -> 168.9			8777.82	7.7								
PFTrDA	8.565	178138	9086.96		13C2-PFDoA - ISTD	8.145	85911	2.4940	ng/ml			
663.0 -> 168.9			23038.72	14.6								
PFUnA	7.702	152604	4699.50		13C7-PFUnA - ISTD	7.701	82540	2.3846	ng/ml			
563.0 -> 269.1			21663.51	24.5								
TDCA	5.564	6	7.24					-	ng/ml			
499.0 -> 99.0			2.71	*110.0								
13C2-8:2FTS	7.038	68640	24165.83		18O2-PFHxS	6.495	46733	5.3782	ng/ml			
529.0 -> 81.0			9544.47	43.5								
13C2-4:2FTS	4.870	115161	20044.42		18O2-PFHxS	6.495	46733	4.8405	ng/ml			
329.0 -> 81.0			6070.94	32.7								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
13C2-6:2FTS	6.113	107320	19666.38		18O2-PFHxS	6.495	46733	5.0751	ng/ml			
429.0 -> 81.0			4705.22	28.2								
13C5-PFHxA	5.109	164614	20463.50		13C2-PFHxA	5.110	149947	2.5910	ng/ml			
318.0 -> 120.0			394.16	1.8								
13C6-PFDA	7.261	85197	12785.75		13C2-PFDA	7.262	83630	1.2794	ng/ml			
13C7-PFUnA	7.701	82540	20731.19		13C2-PFDA	7.262	83630	1.3258	ng/ml			
13C8-PFOA	6.328	205937	46494.05		13C4-PFOA	6.329	23693	2.6564	ng/ml			
13C8-PFOS	7.492	43501	6964.71		13C4-PFOS	7.492	45411	2.5827	ng/ml			
507.0 -> 99.0			6021.42	54.7								
13C8-PFOSA	8.709	79565	604054.72		13C4-PFOS	7.492	45411	2.6142	ng/ml			
13C9-PFNA	6.804	96187	17978.25		13C5-PFNA	6.804	122051	1.2808	ng/ml			
13C5-PFPeA	4.212	224195	22445.57		13C2-PFHxA	5.110	149947	4.7589	ng/ml			
13C2-PFDoA	8.145	85911	25824.41		13C2-PFDA	7.262	83630	1.3370	ng/ml			
13C4-PFHpA	5.789	216091	23639.06		13C2-PFHxA	5.110	149947	2.6072	ng/ml			
13C4-PFBA	2.623	267664	70022.20		13C3-PFBA	2.625	117498	10.4279	ng/ml	✔	3	AMS 05/29/24
13C3-PFHxS	6.496	49630	13334.06		18O2-PFHxS	6.495	46733	2.5878	ng/ml			
402.0 -> 99.0			15673.83	52.3								
13C3-PFBS	5.120	70702	19760.66		18O2-PFHxS	6.495	46733	2.5476	ng/ml			
301.9 -> 98.9			9390.17	37.5								
13C3-HFPODA	5.375	196322	47739.86		13C2-PFHxA	5.110	149947	10.7747	ng/ml			
287.0 -> 185.0			9702.70	42.6								
13C2-PFTeDA	8.958	120892	57577.30		13C2-PFDA	7.262	83630	1.3952	ng/ml			
D9-NEtFOSE	10.236	315549	142027.21		13C4-PFOS	7.492	45411	32.0492	ng/ml			
D3-NMeFOSA	10.051	24719	22035.54		13C4-PFOS	7.492	45411	2.4862	ng/ml			
D3-NMeFOSAA	7.274	181117	98730.31		13C4-PFOS	7.492	45411	5.3667	ng/ml			
D5-NEtFOSA	10.362	26445	6914.98		13C4-PFOS	7.492	45411	2.6128	ng/ml			
D5-NEtFOSAA	7.461	94228	35047.27		13C4-PFOS	7.492	45411	5.5770	ng/ml			
D7-NMeFOSE	9.890	273250	97763.51		13C4-PFOS	7.492	45411	29.6978	ng/ml			

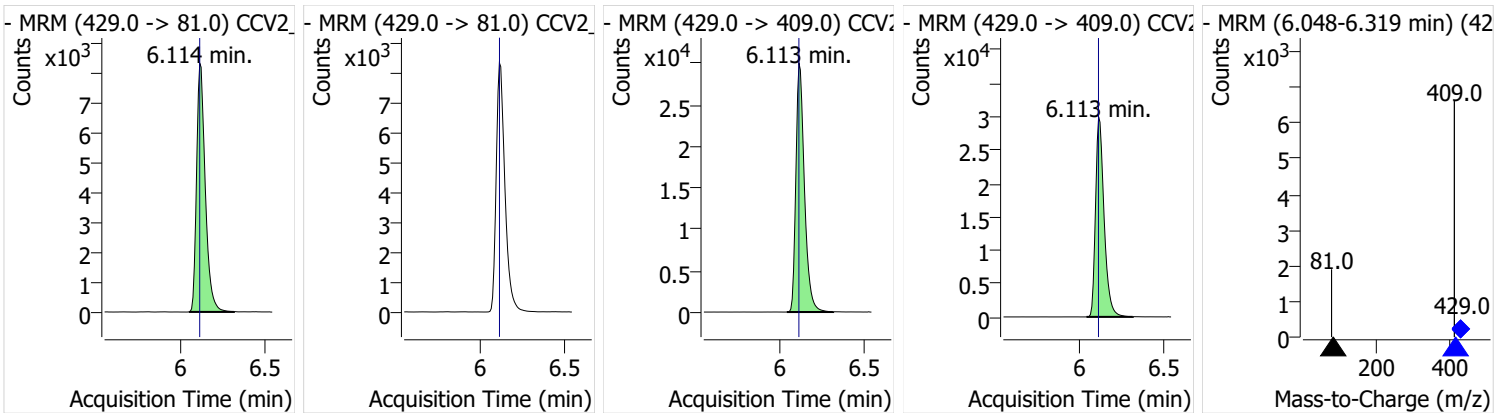
11Cl-PF3OUdS



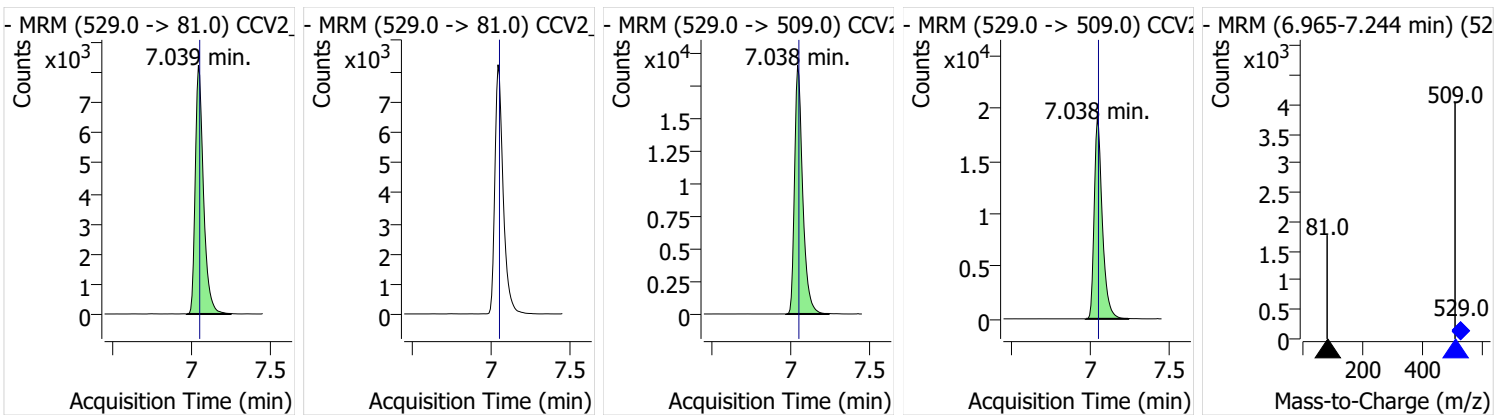
13C2-4:2FTS - ISTD



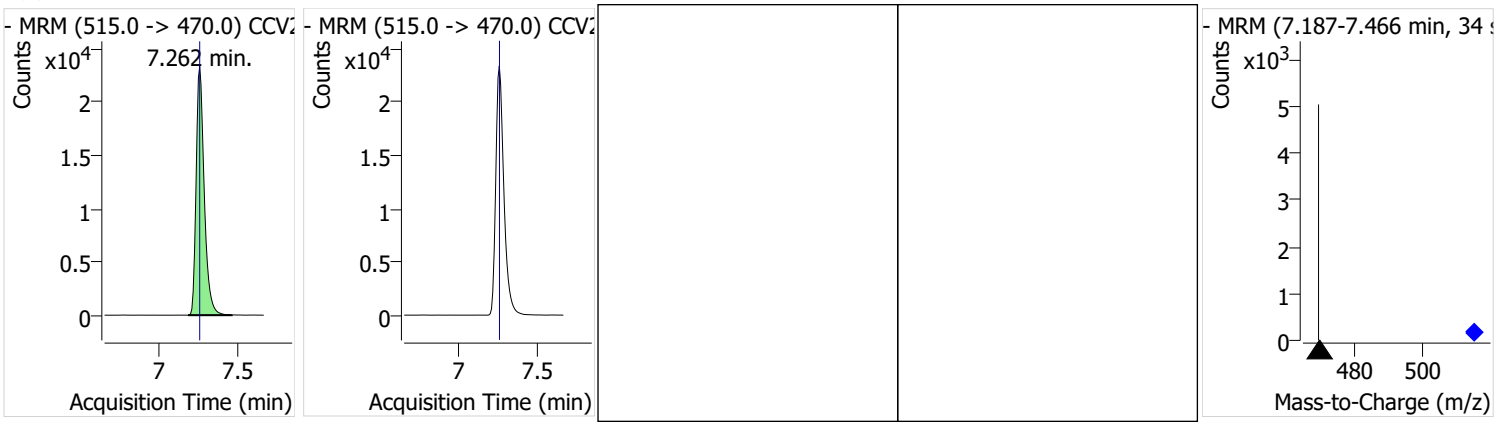
13C2-6:2FTS - ISTD



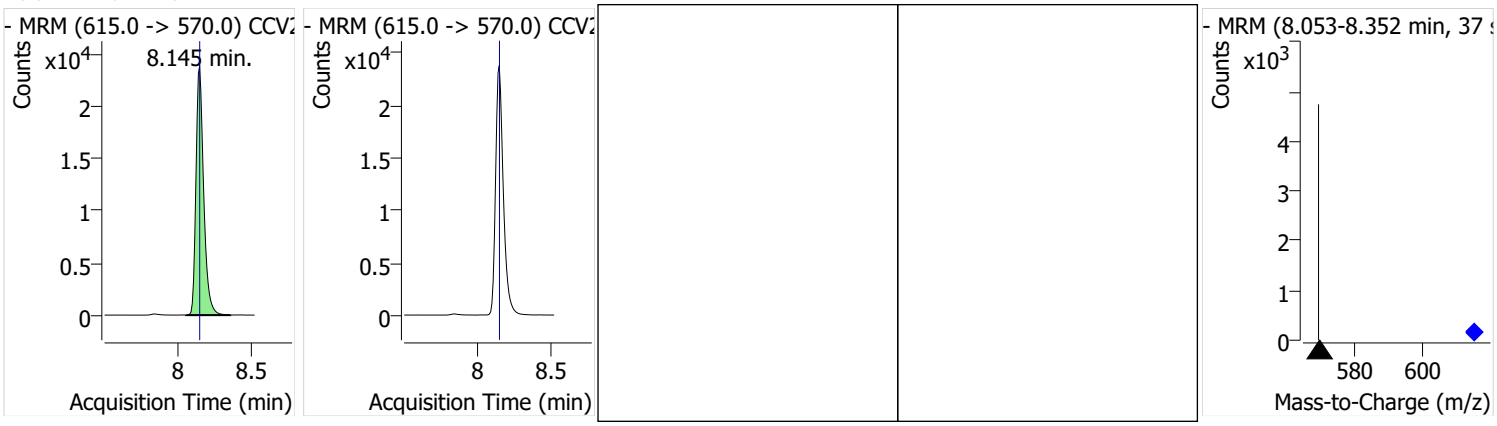
13C2-8:2FTS - ISTD



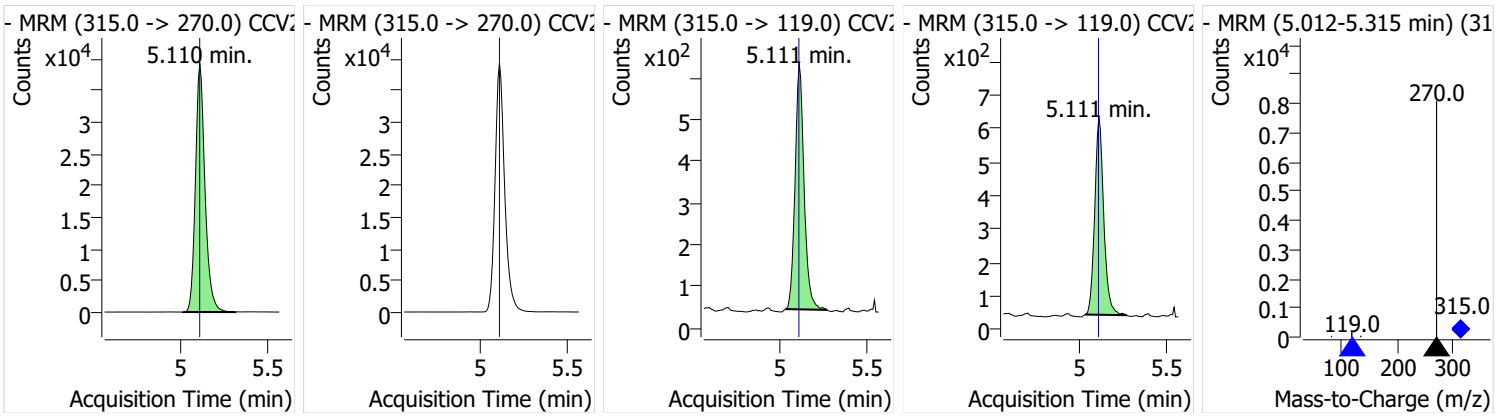
13C2-PFDA



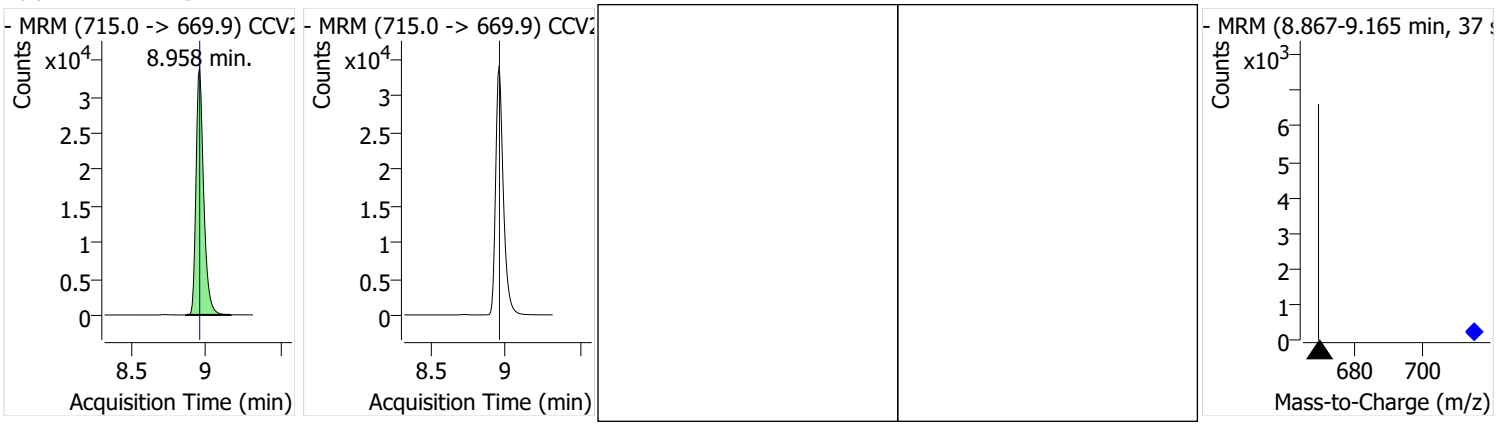
13C2-PFDoA - ISTD



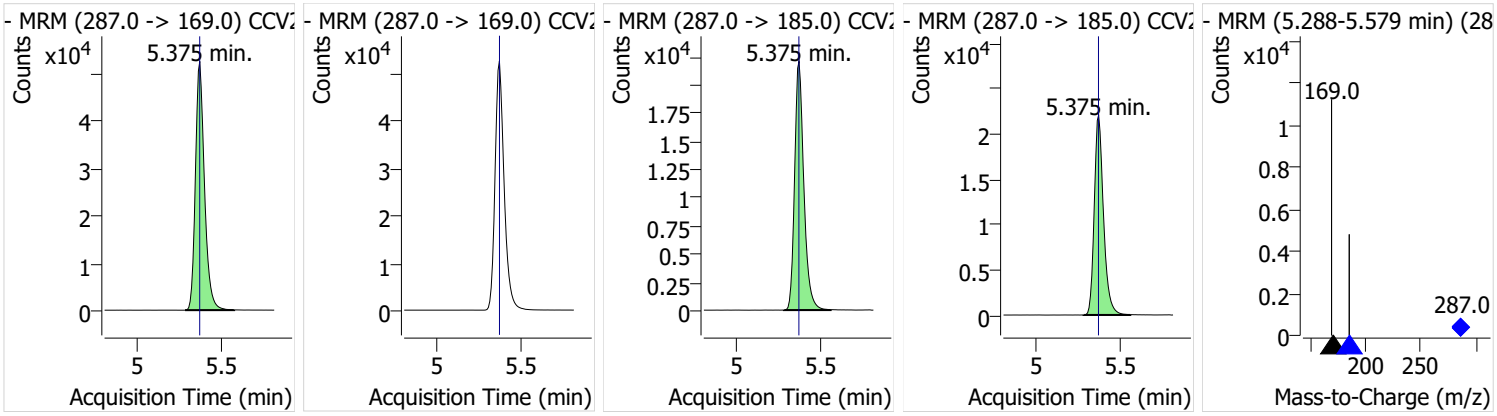
13C2-PFHxA



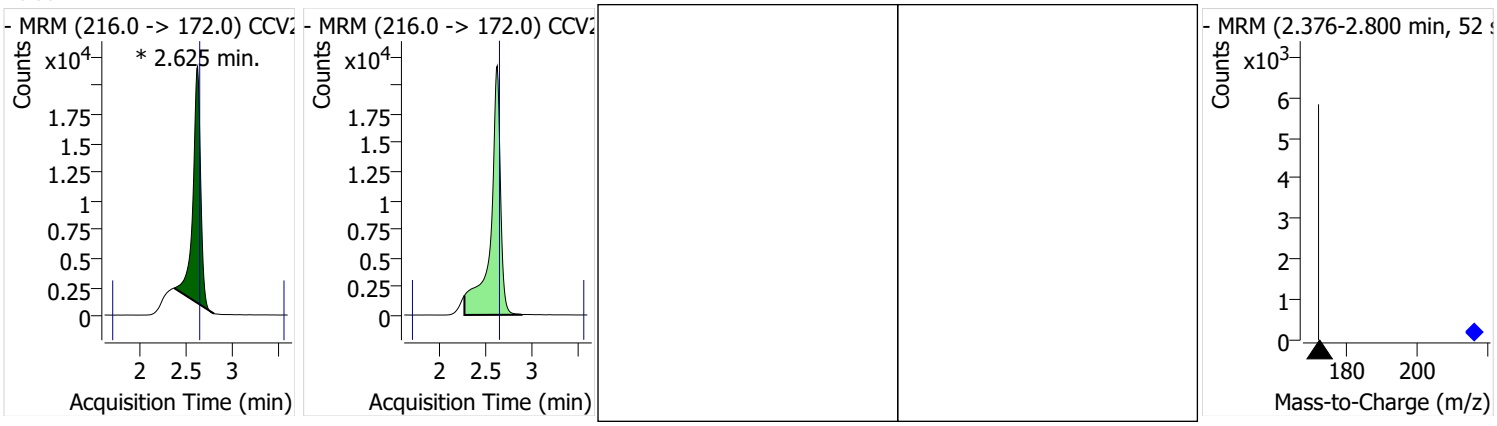
13C2-PFTeDA - ISTD



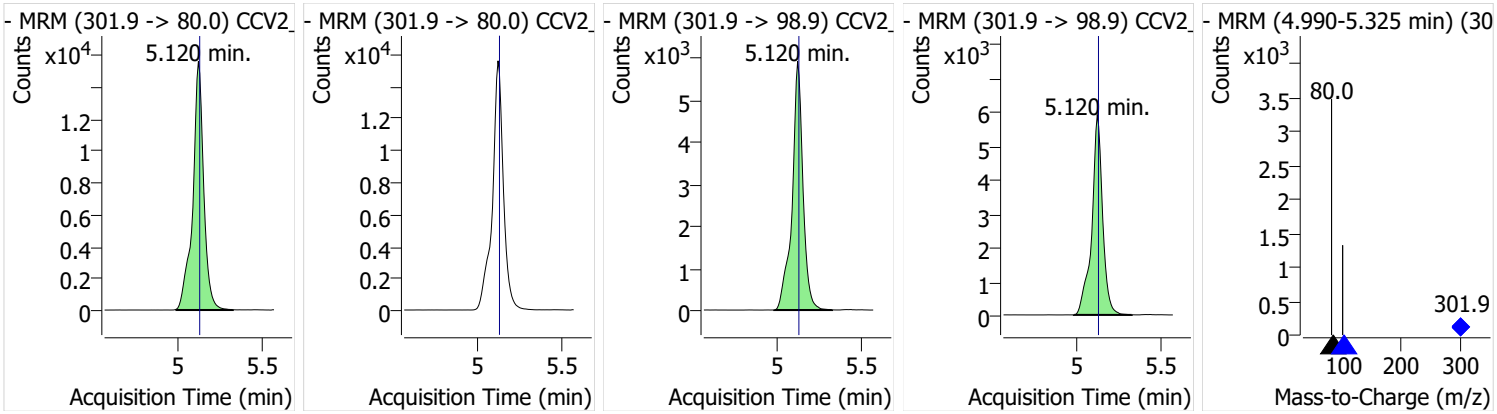
13C3-HFPODA - ISTD



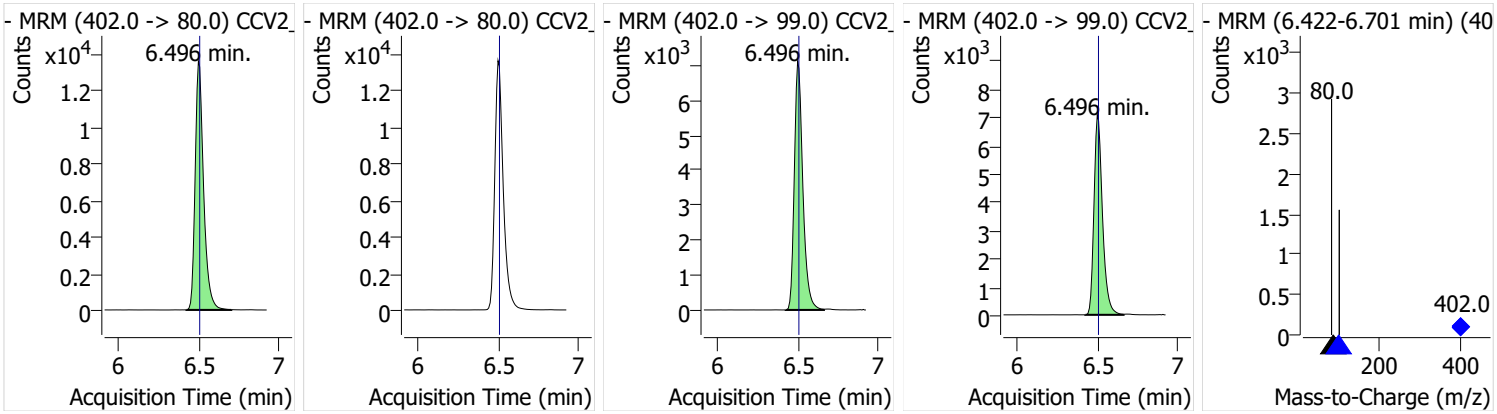
13C3-PFBA



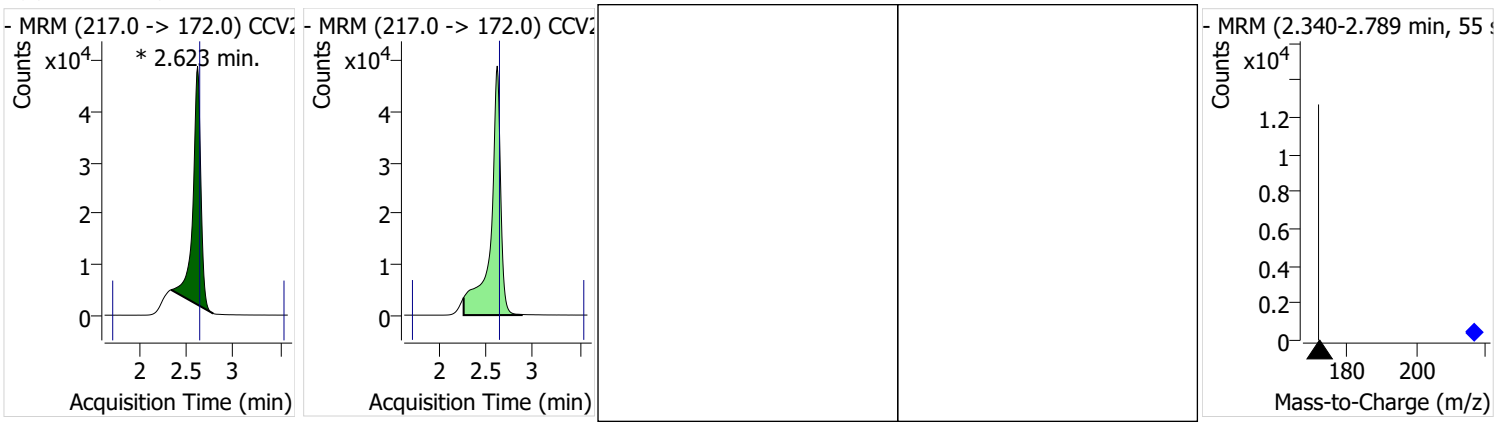
13C3-PFBS - ISTD



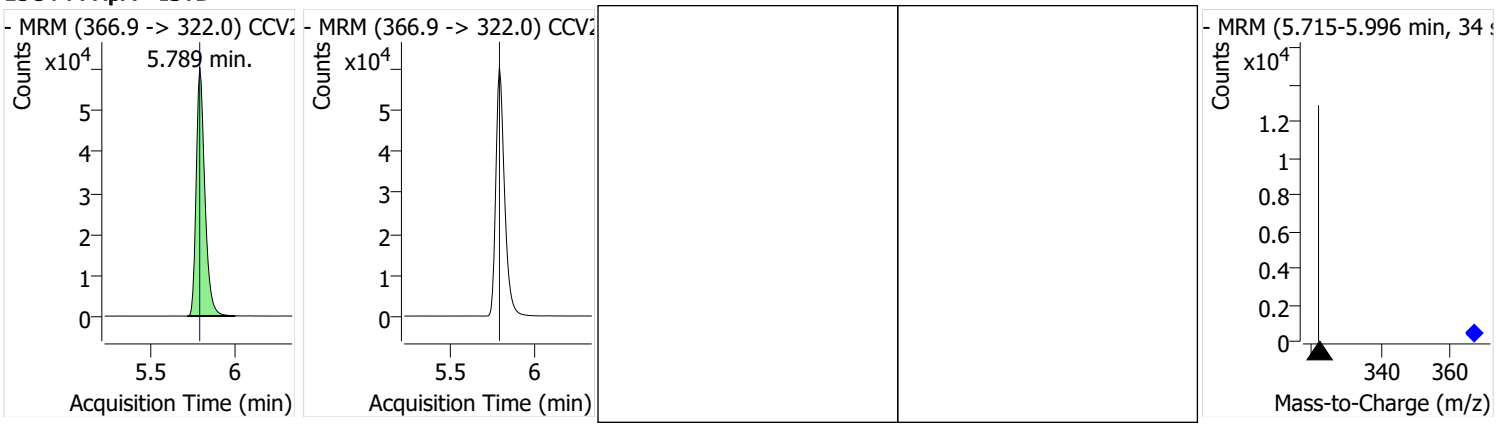
13C3-PFHxS - ISTD



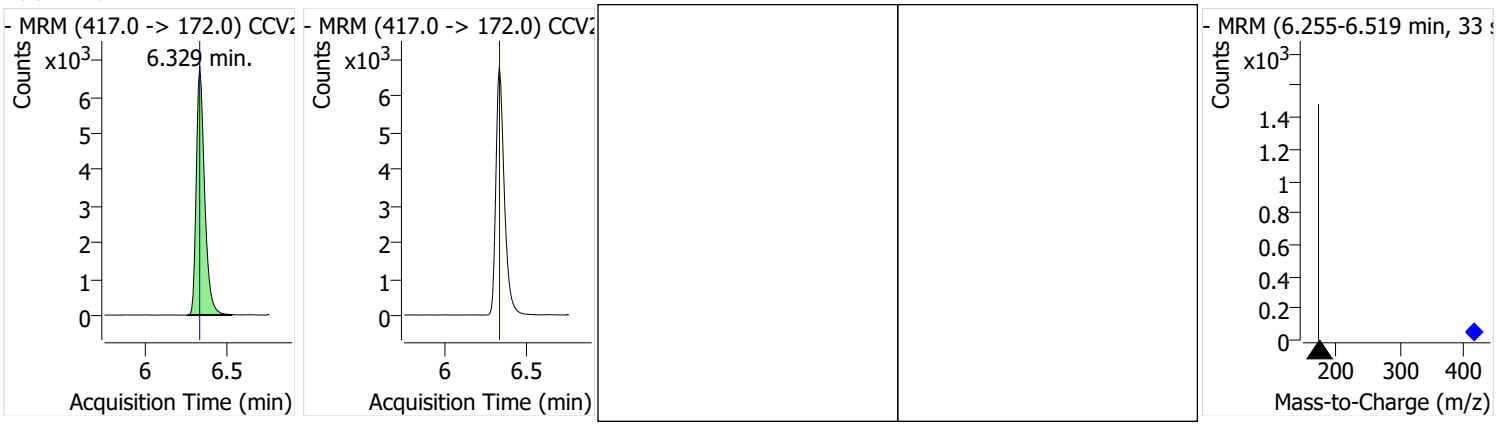
13C4-PFBA - ISTD



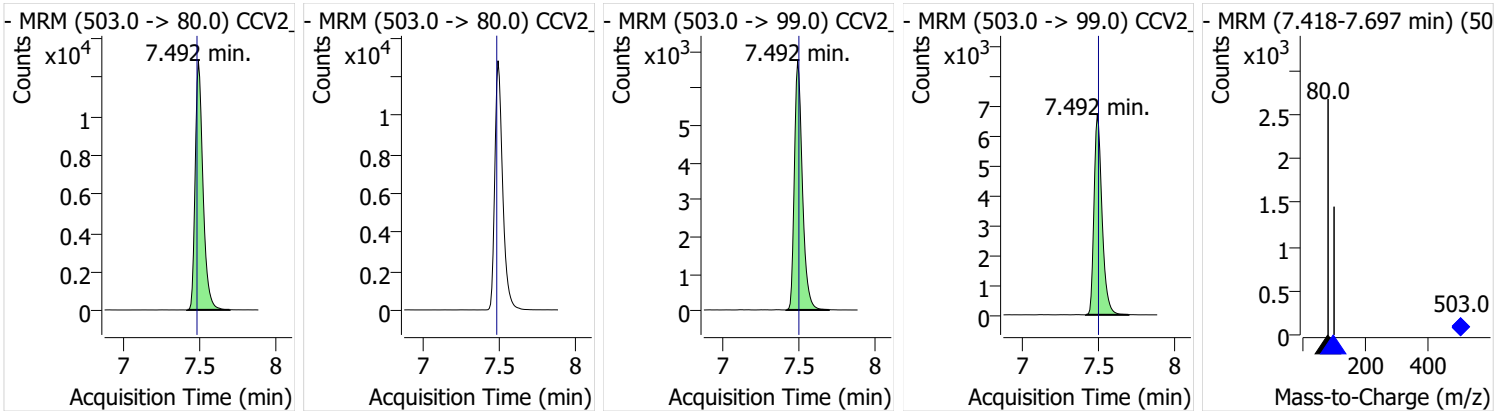
13C4-PFHpA - ISTD



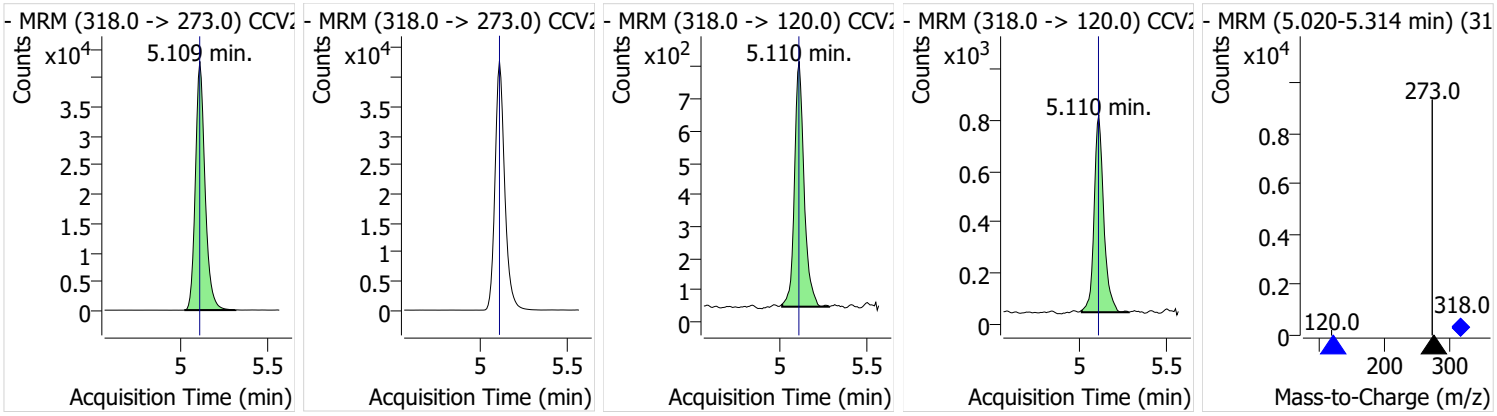
13C4-PFOA



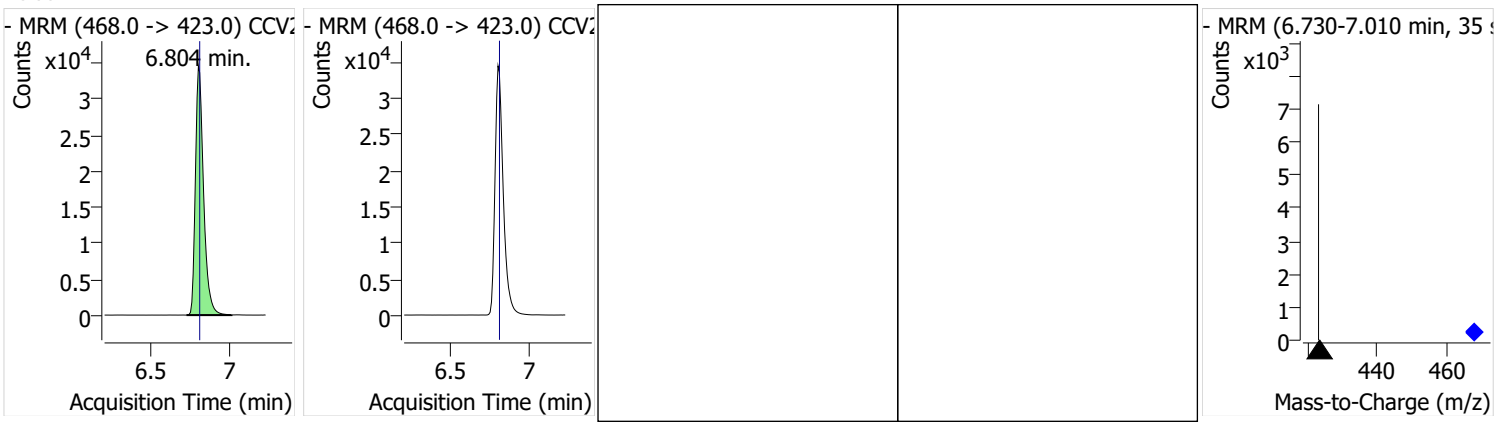
13C4-PFOS



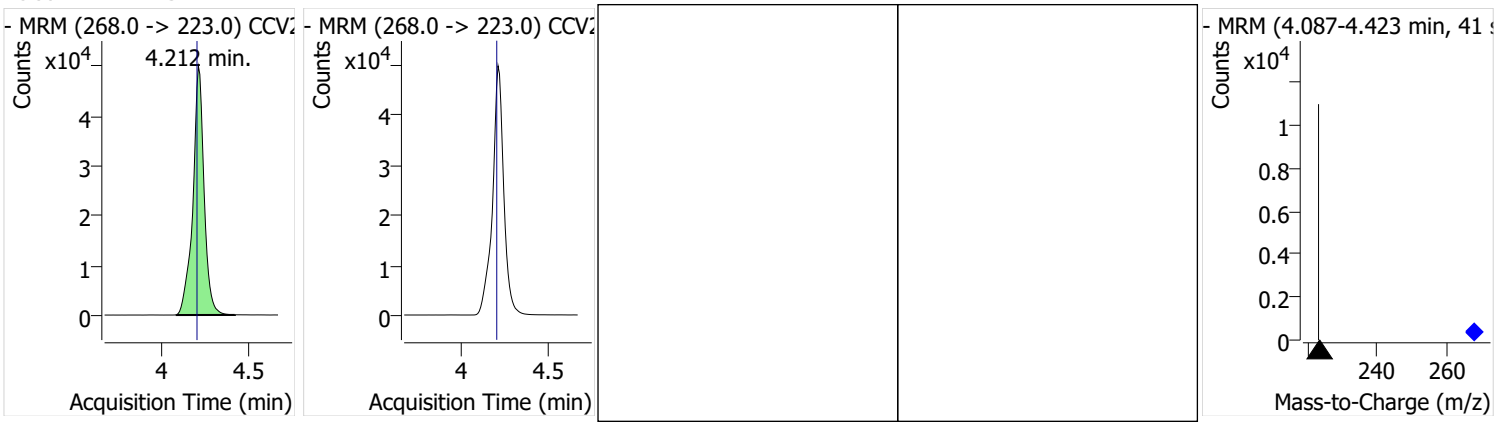
13C5-PFHxA - ISTD



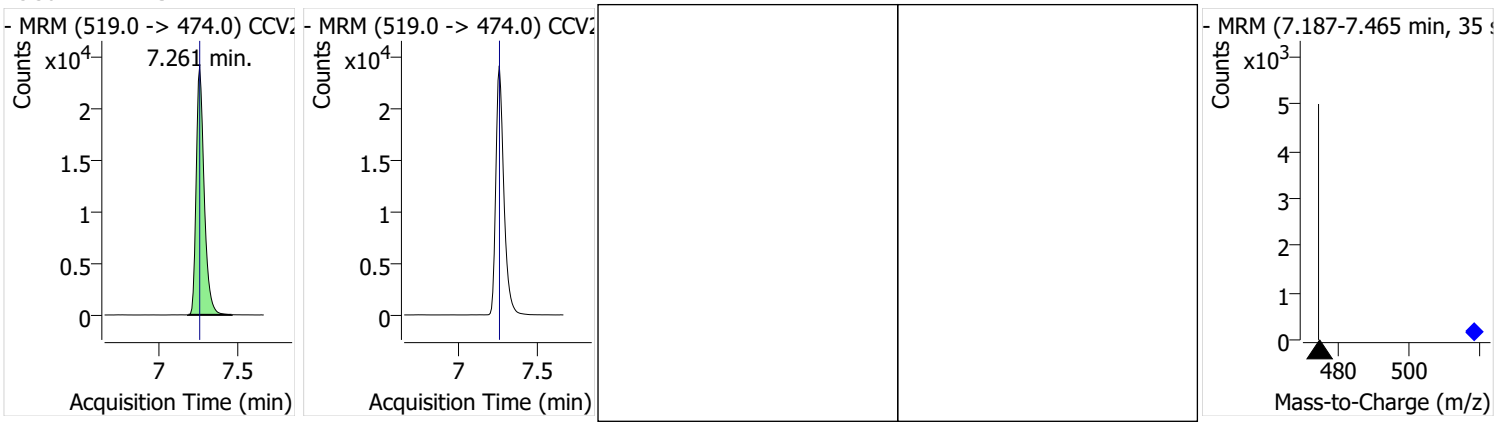
13C5-PFNA



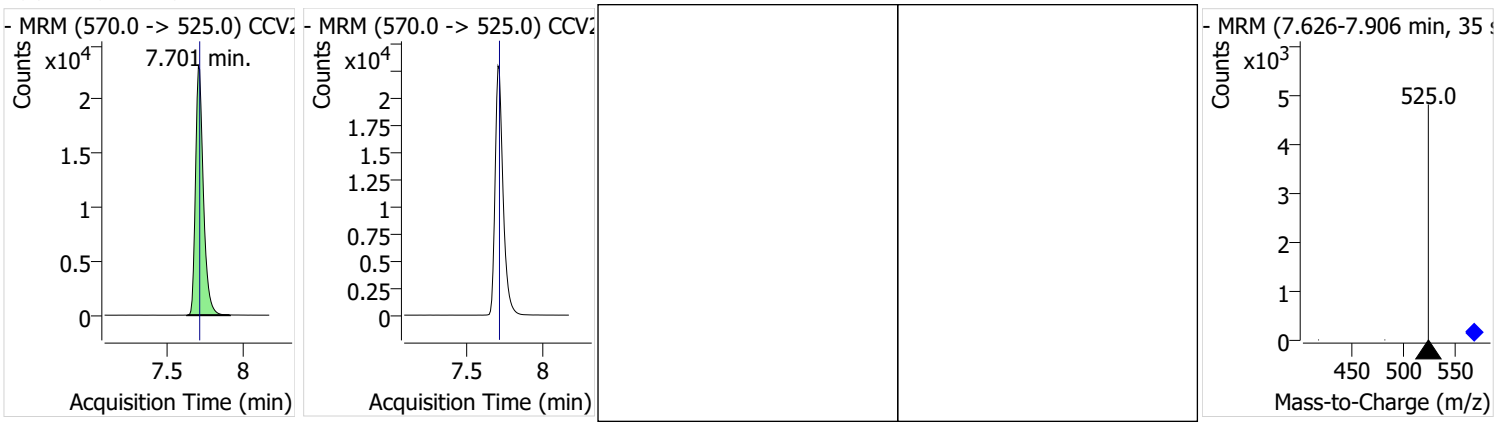
13C5-PFPeA - ISTD



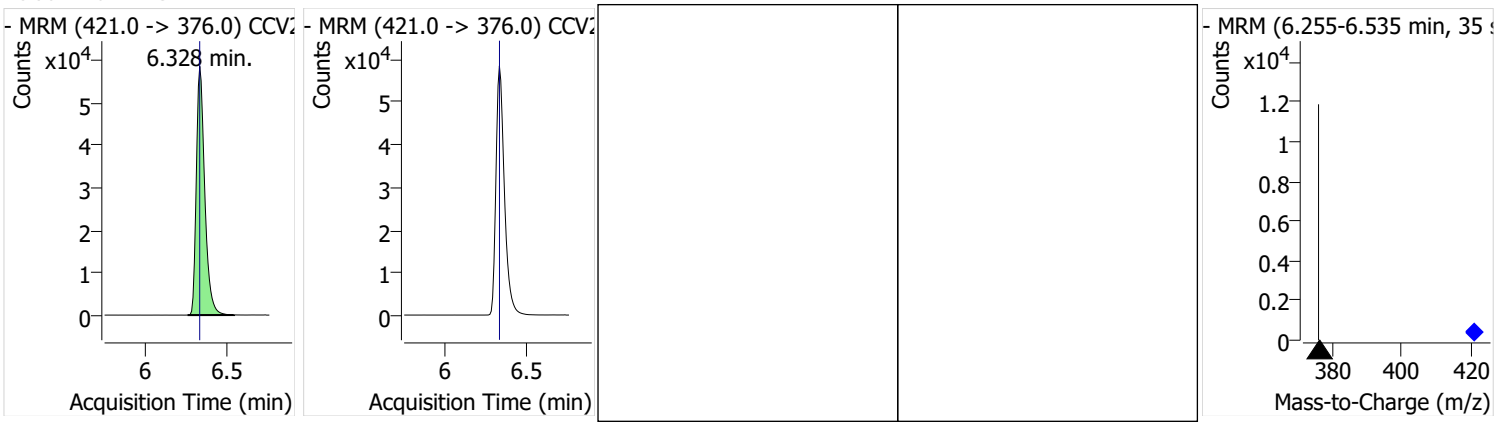
13C6-PFDA - ISTD



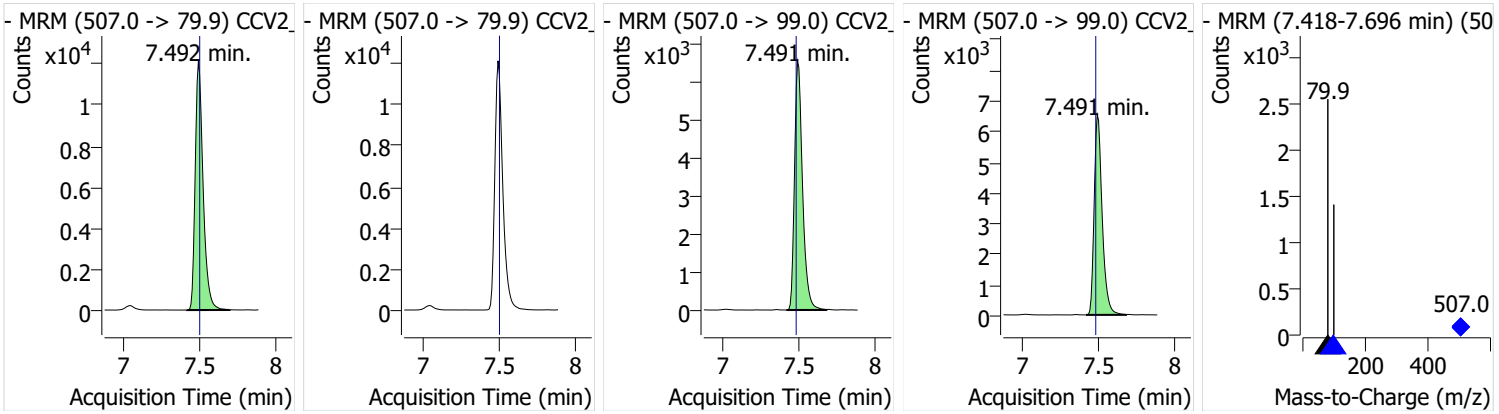
13C7-PFUnA - ISTD



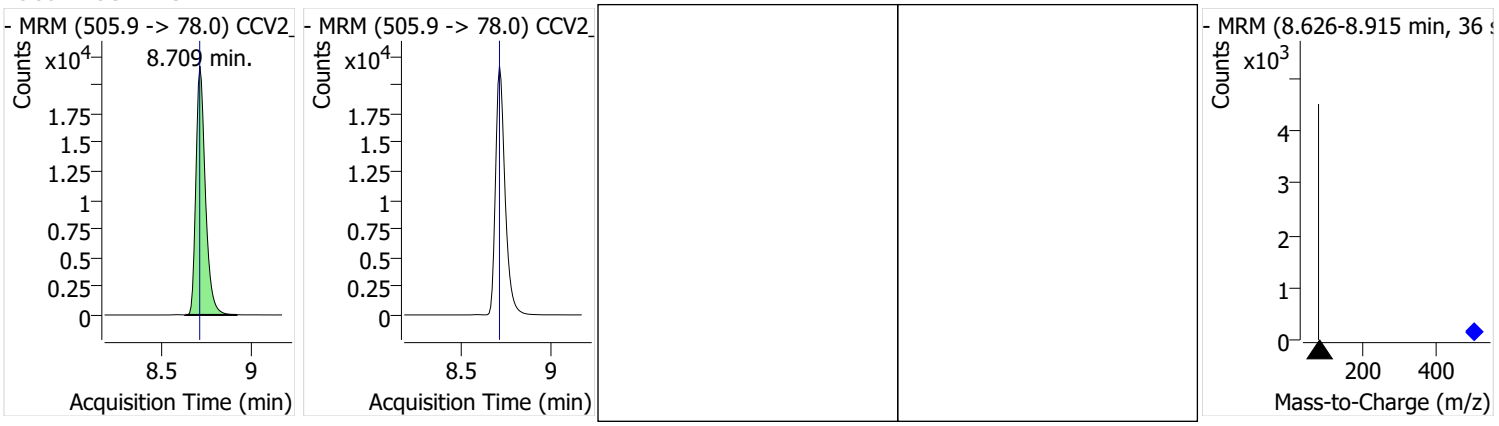
13C8-PFOA - ISTD



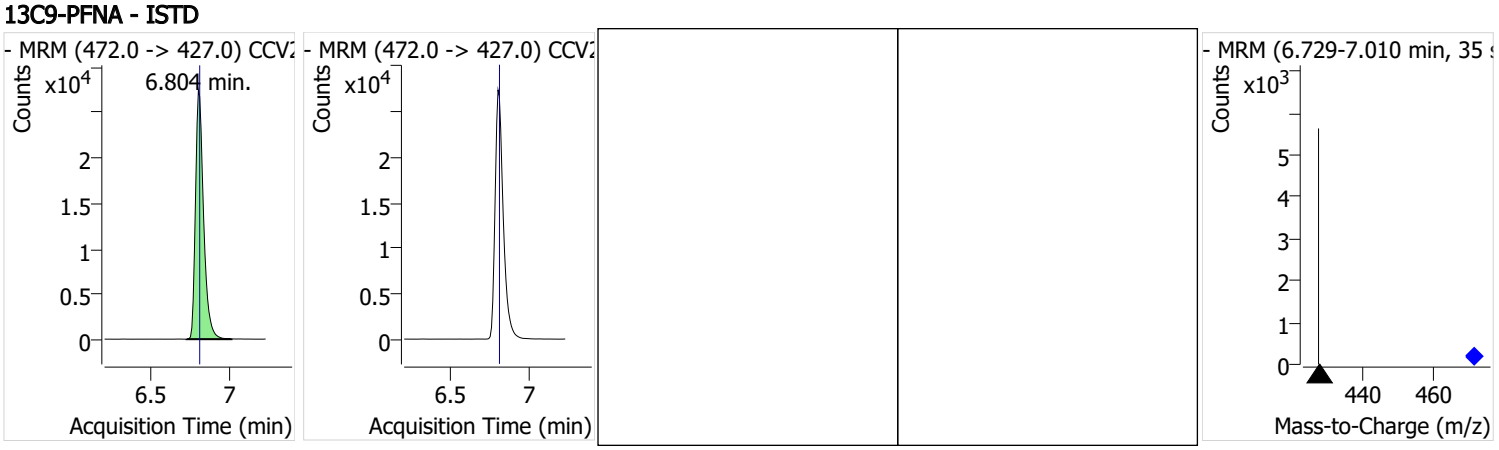
13C8-PFOS - ISTD



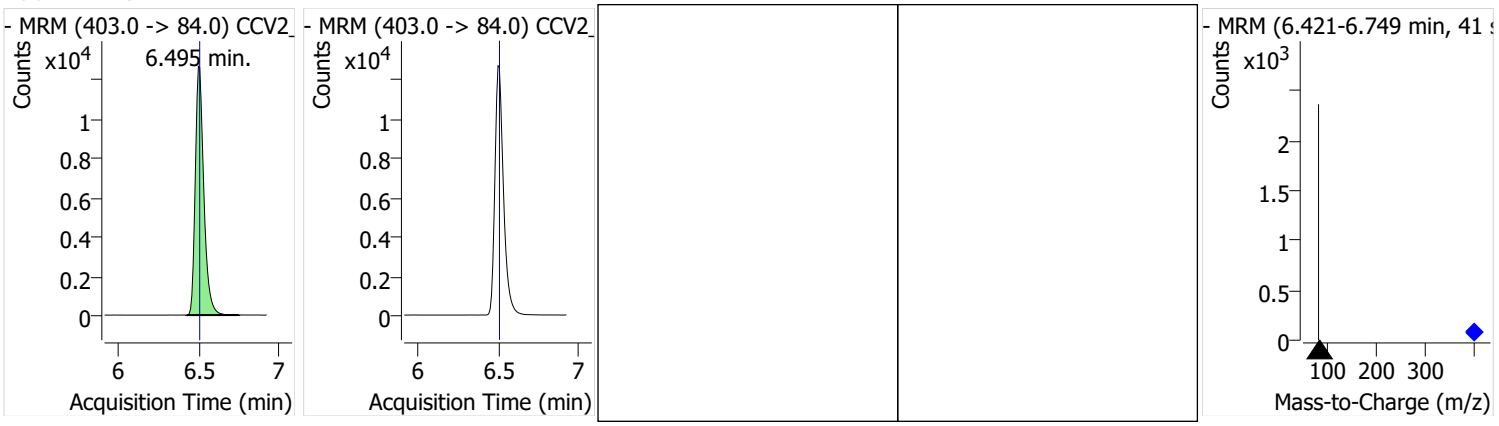
13C8-PFOSA - ISTD



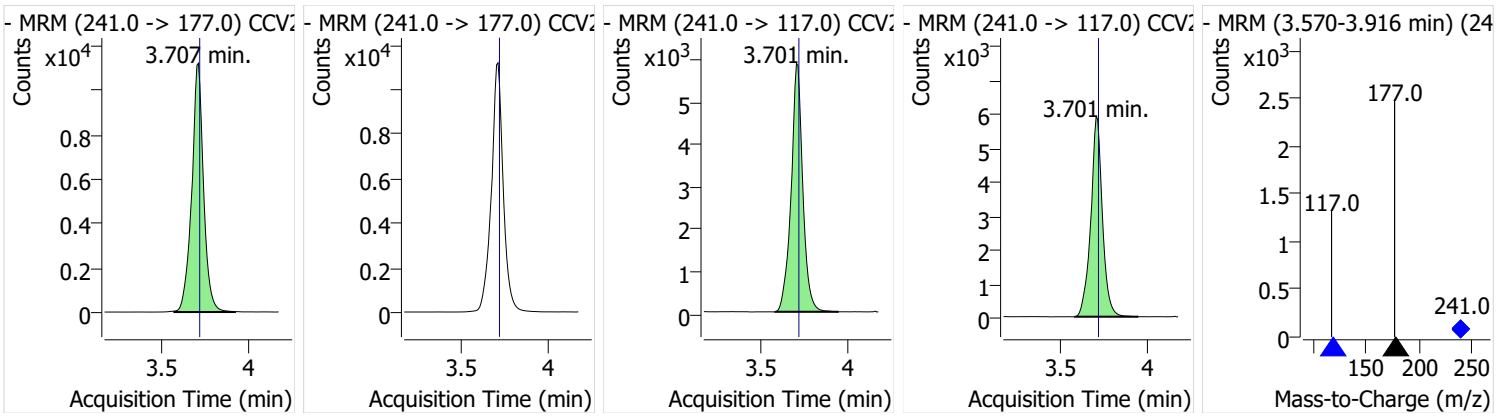
13C9-PFNA - ISTD



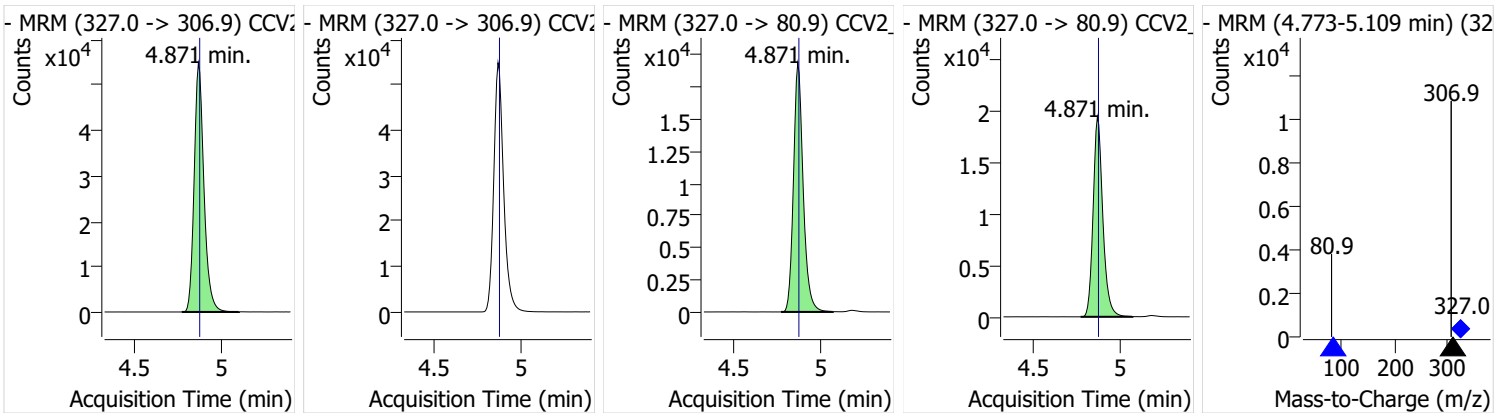
18O2-PFHxS



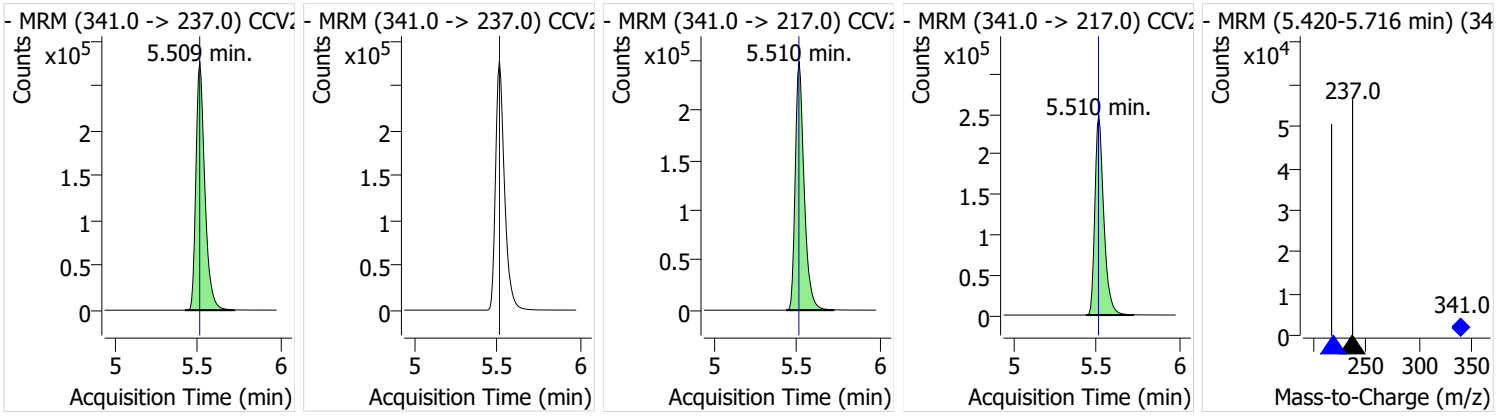
3:3FTCA



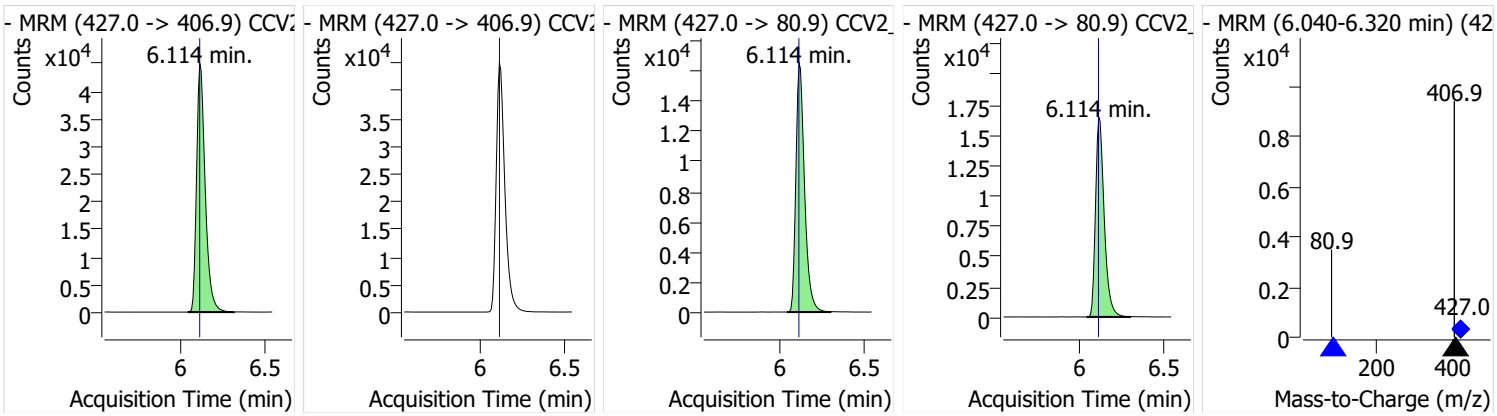
4:2FTS



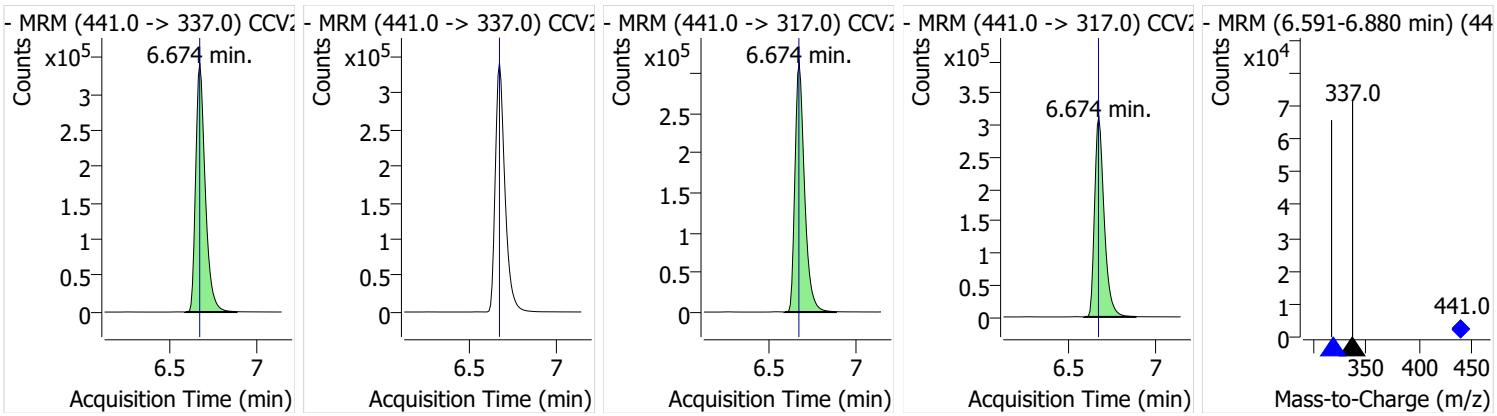
5:3FTCA



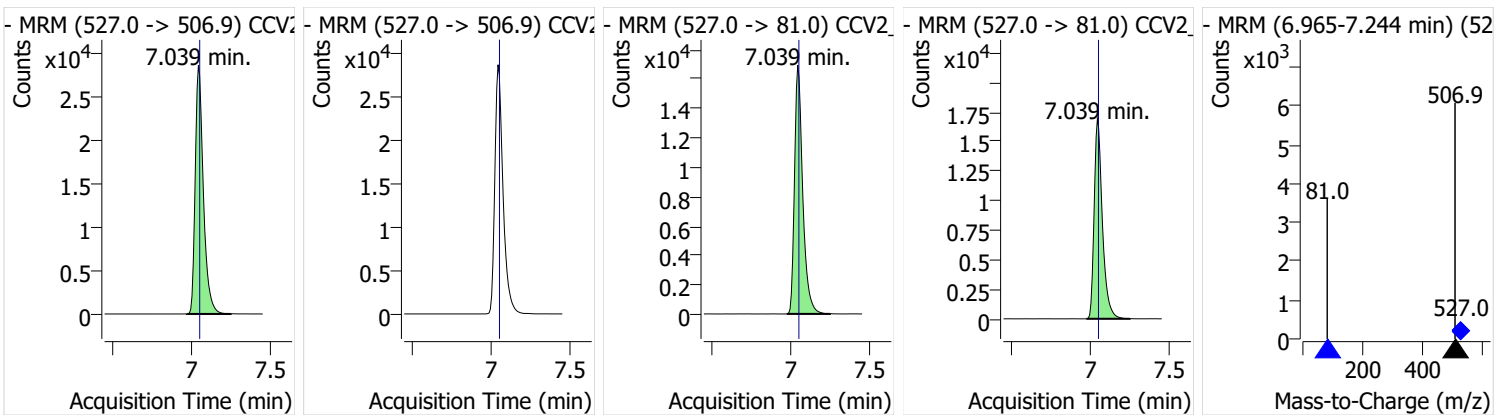
6:2FTS



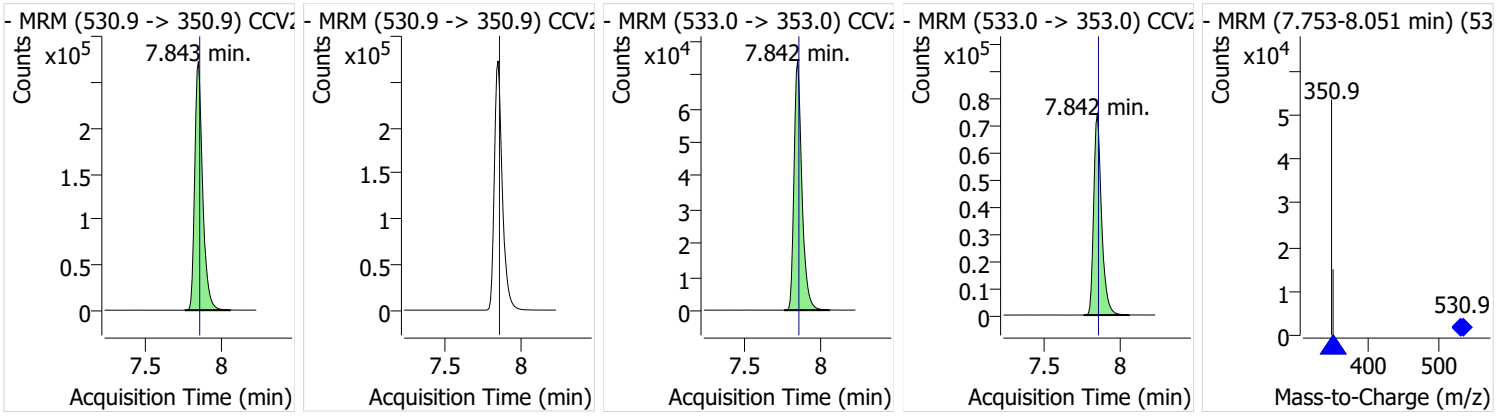
7:3FTCA



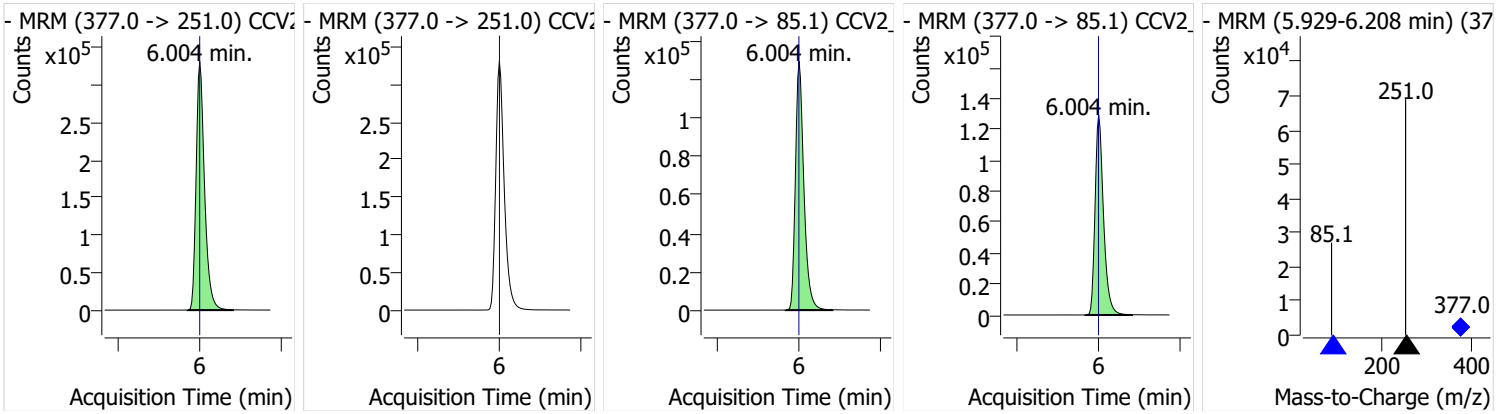
8:2FTS



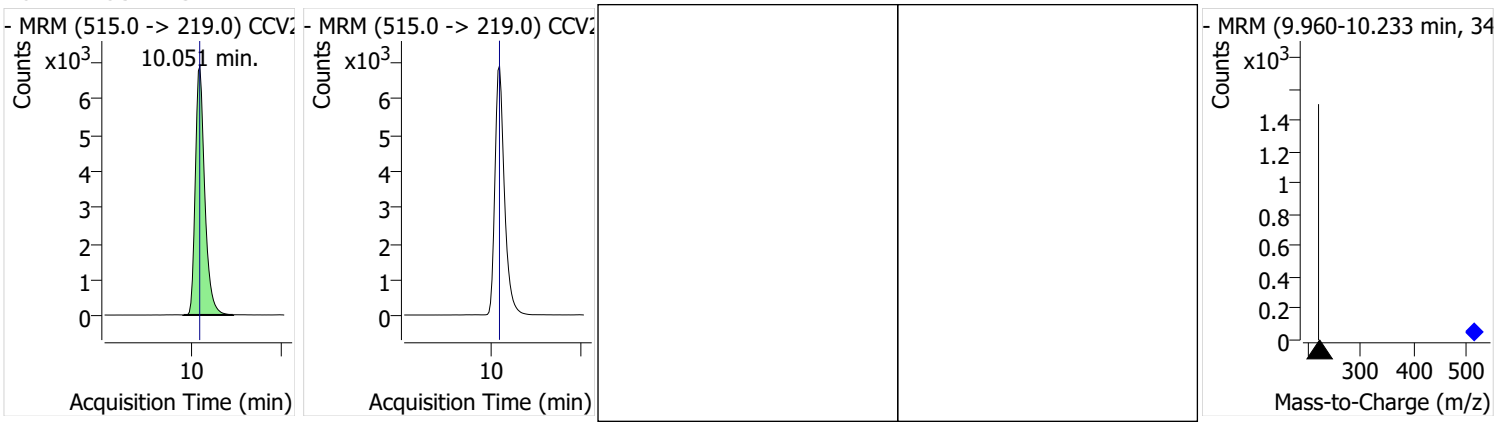
9Cl-PF3ONS



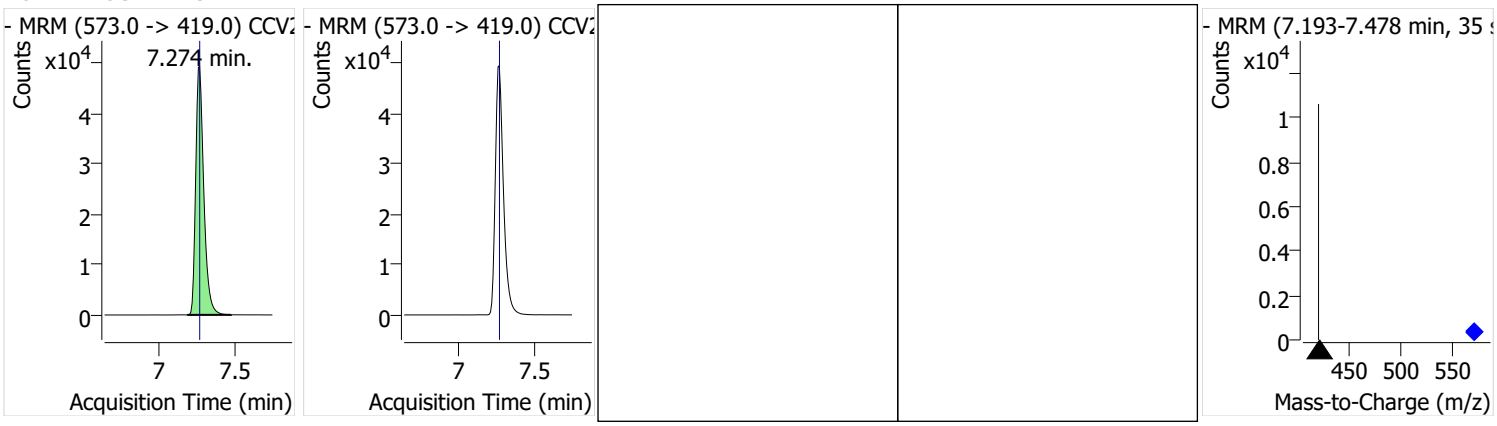
ADONA



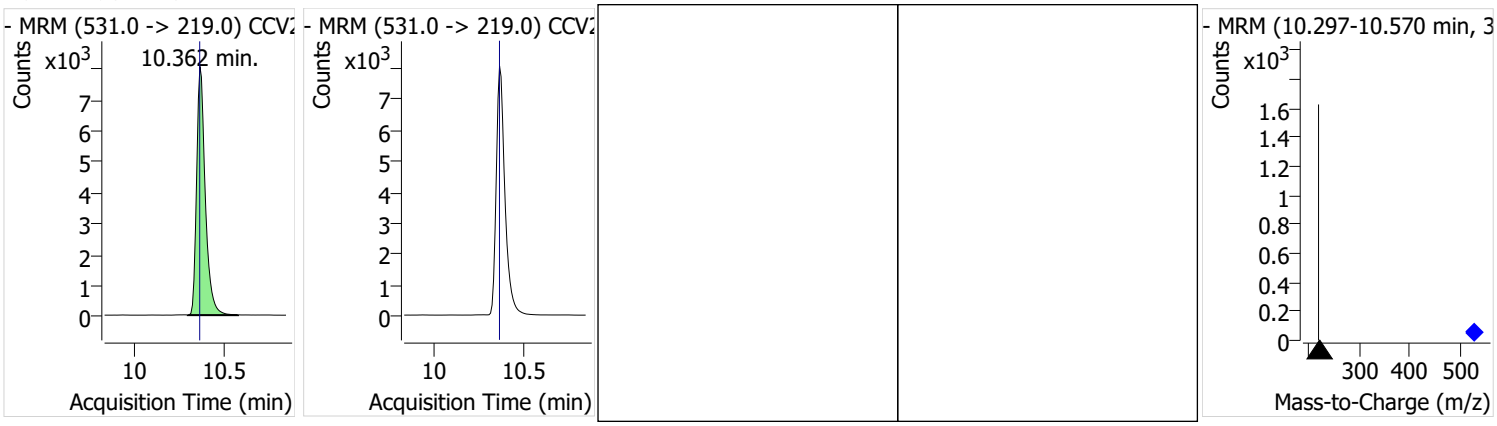
D3-NMeFOSA - ISTD



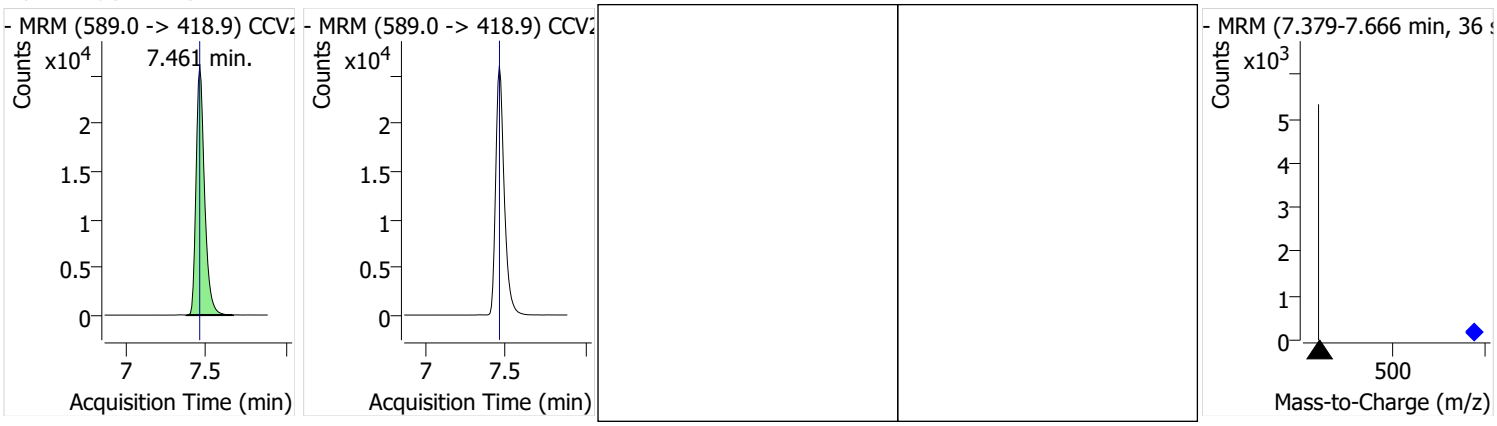
D3-NMeFOSAA - ISTD



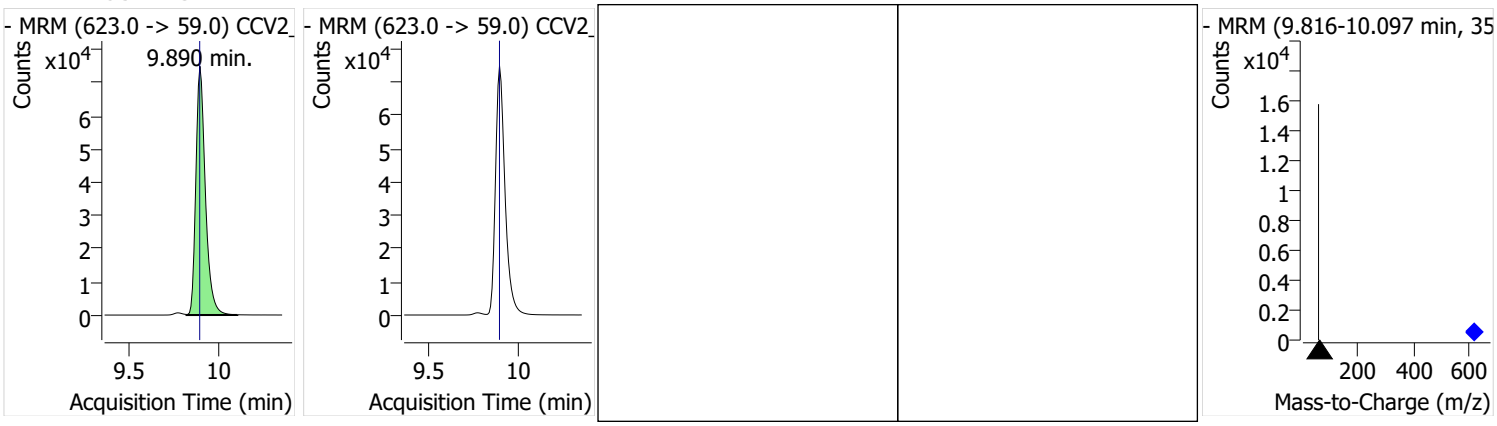
D5-NEtFOSA - ISTD



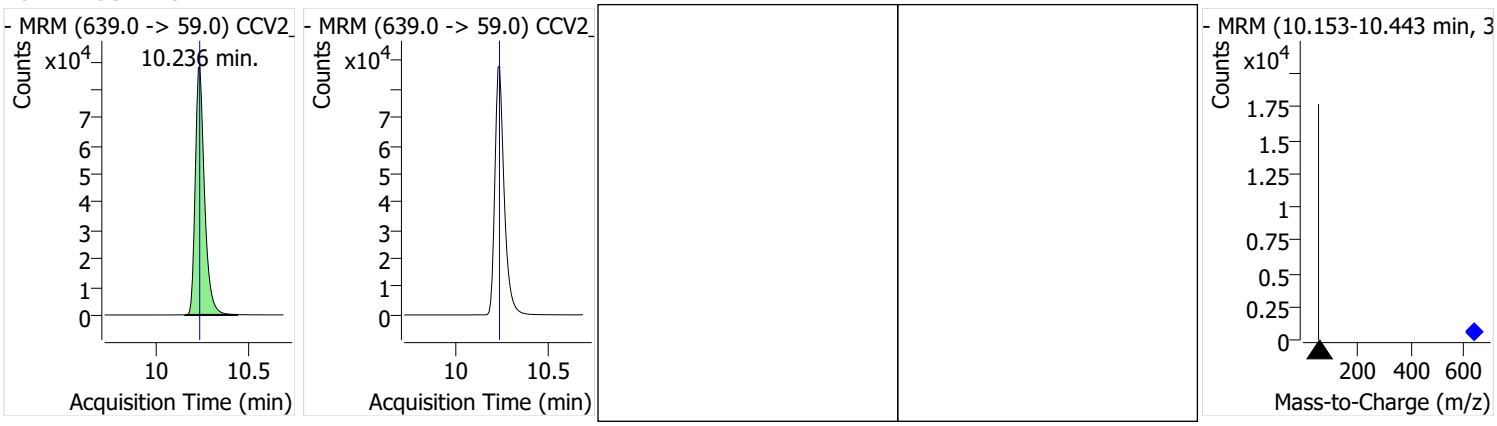
D5-NEtFOSAA - ISTD



D7-NMeFOSE - ISTD



D9-NEtFOSE - ISTD



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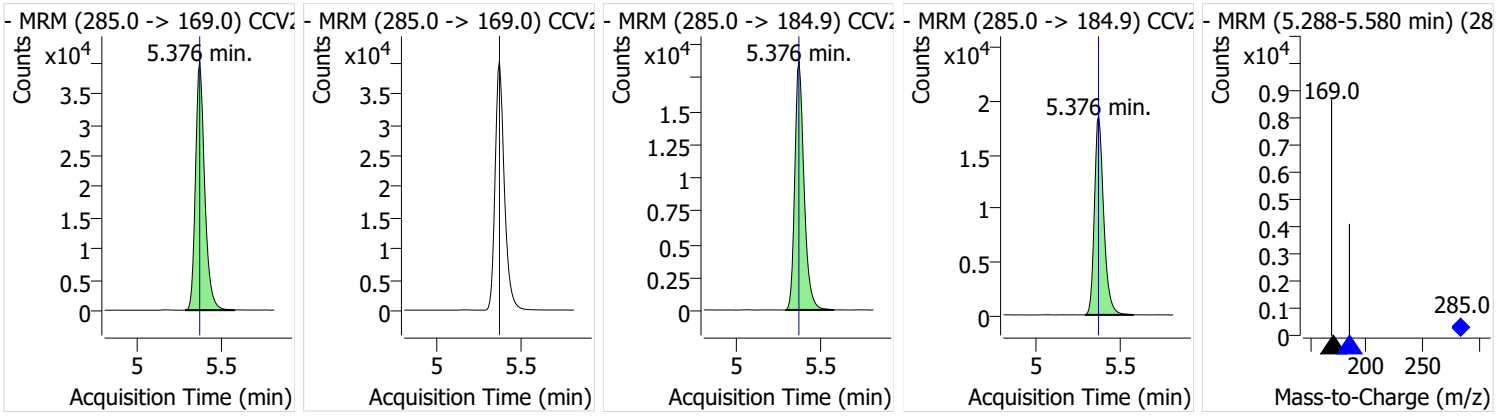

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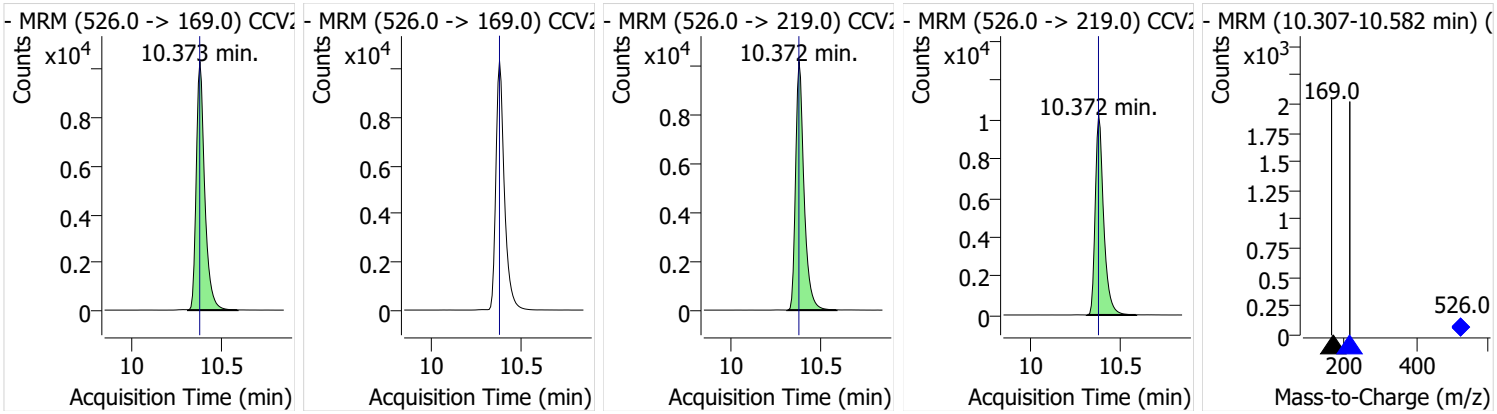

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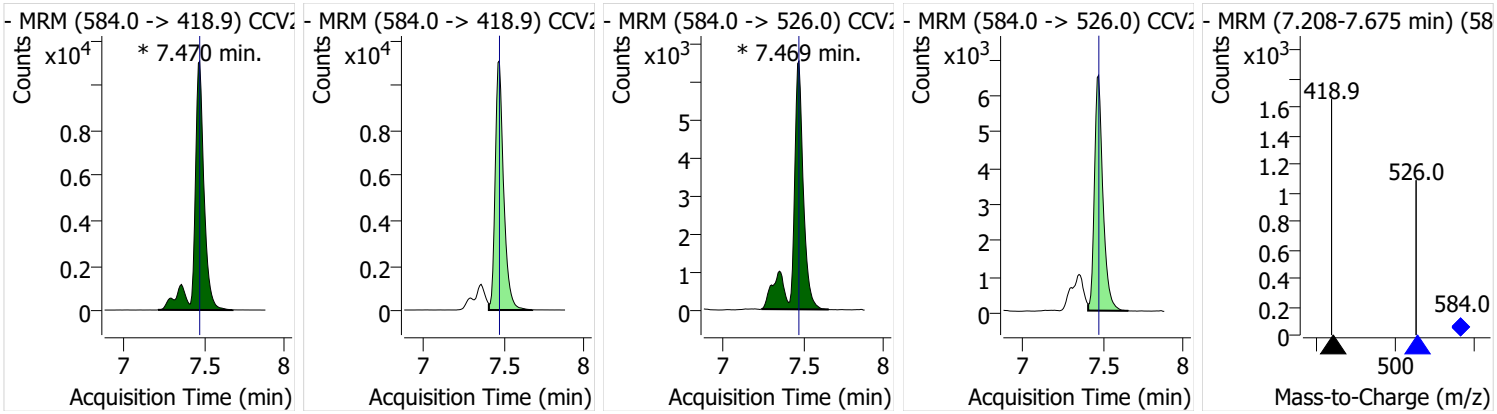

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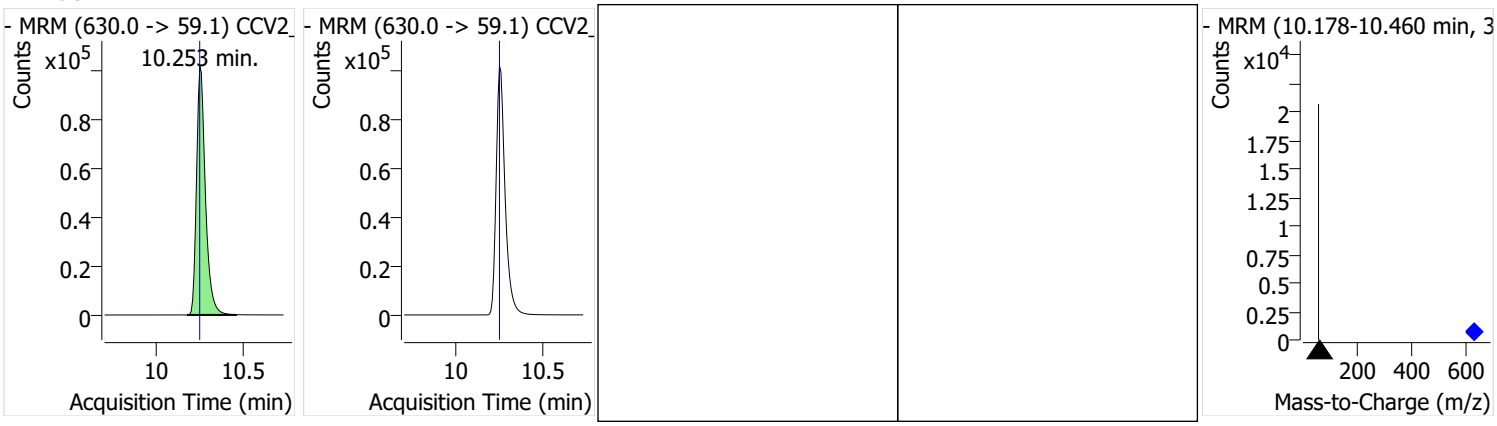

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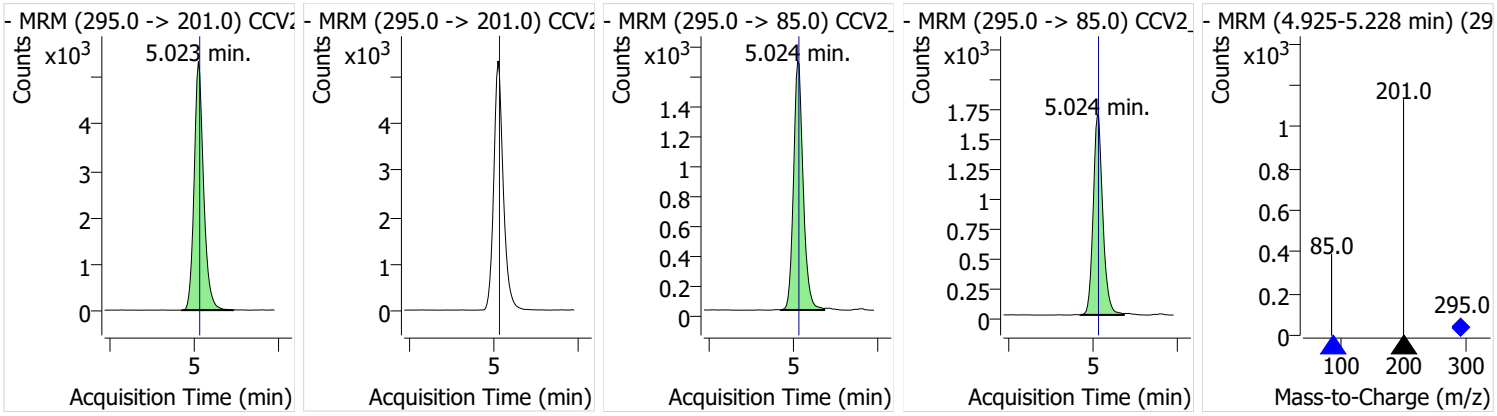

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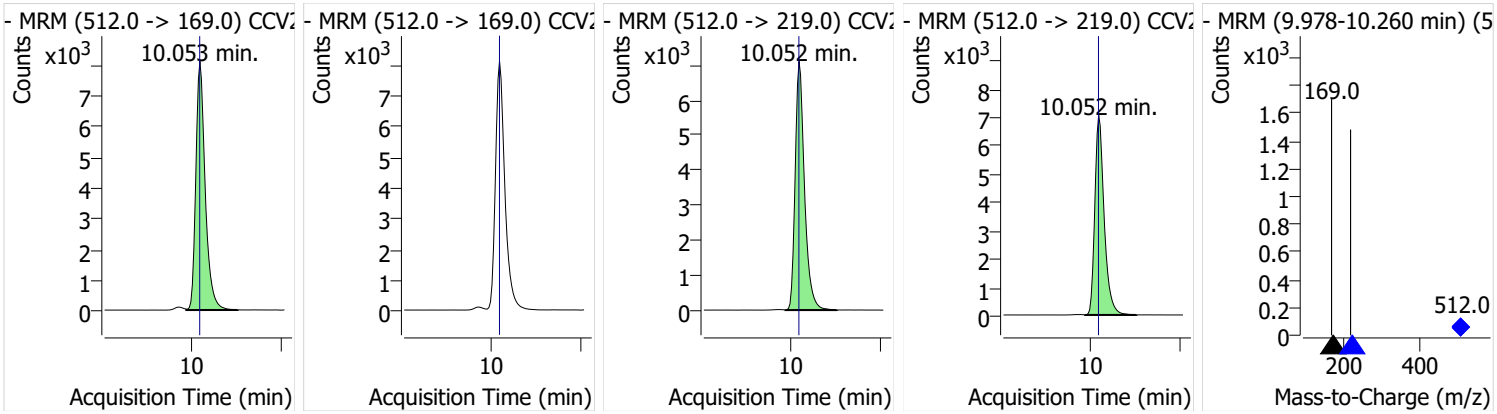

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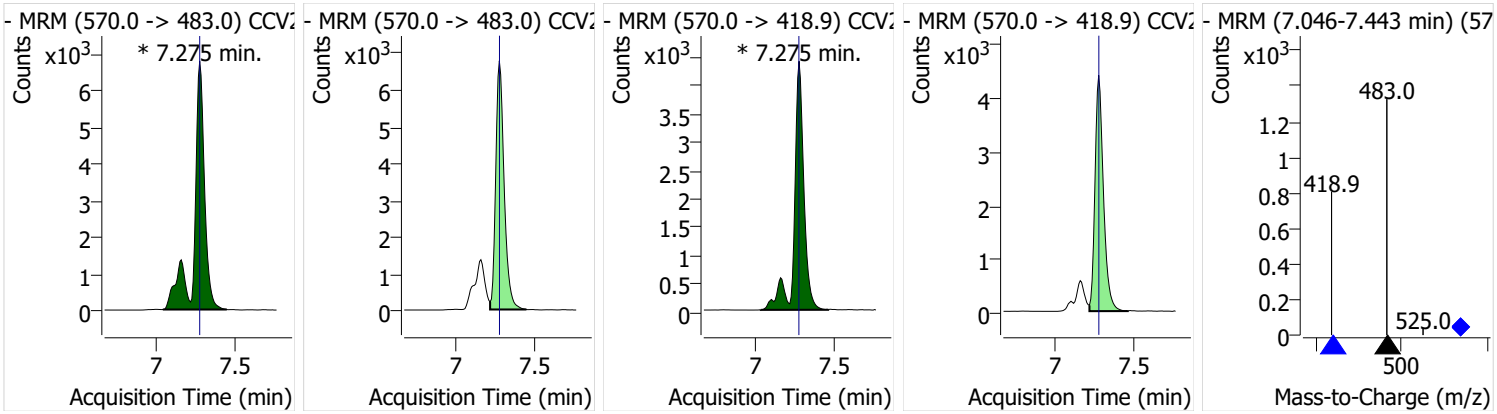

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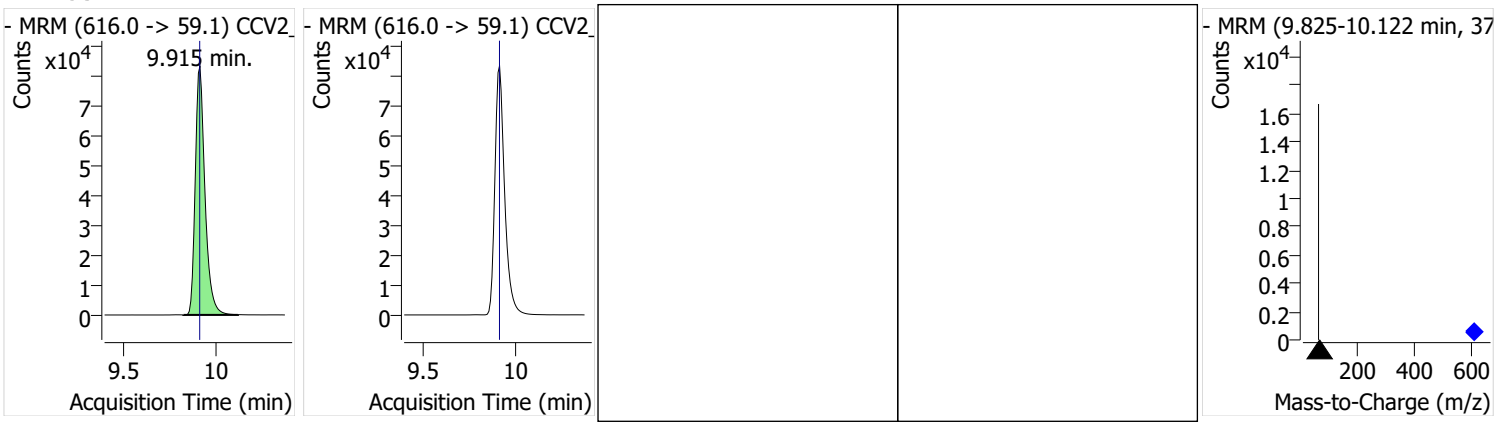

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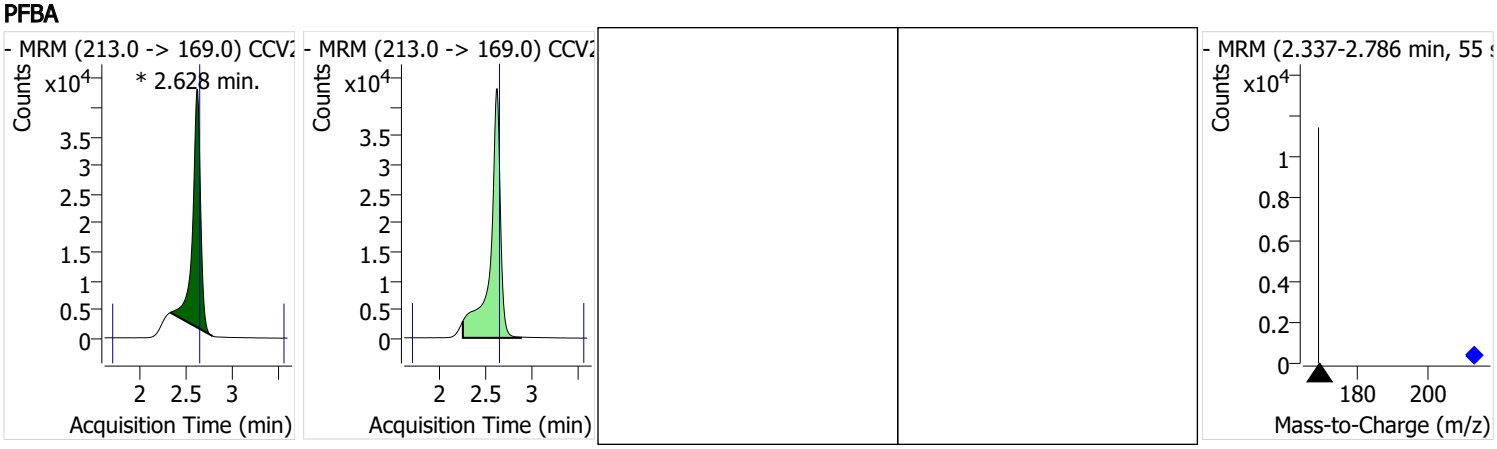

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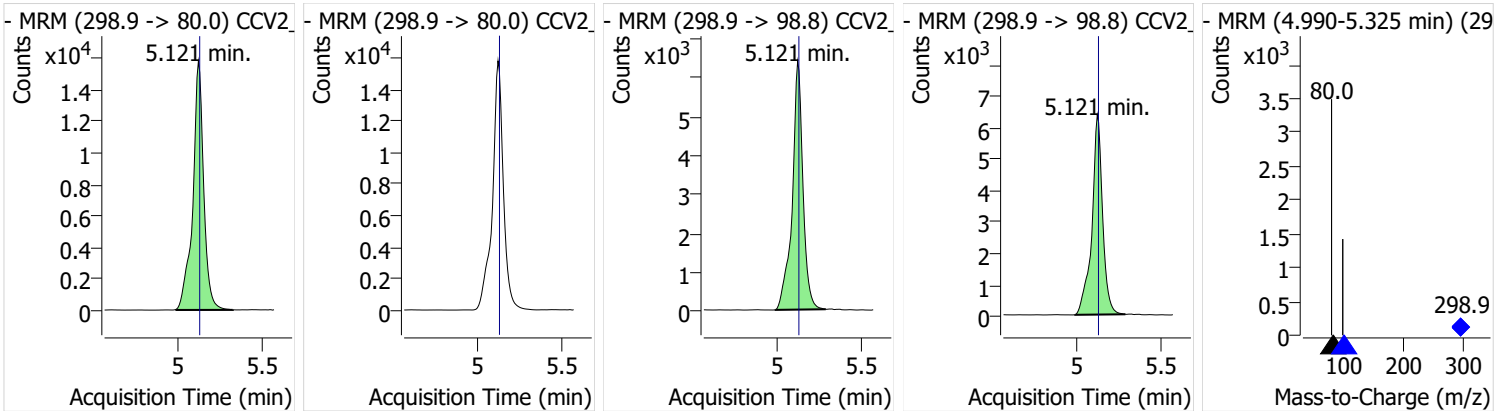

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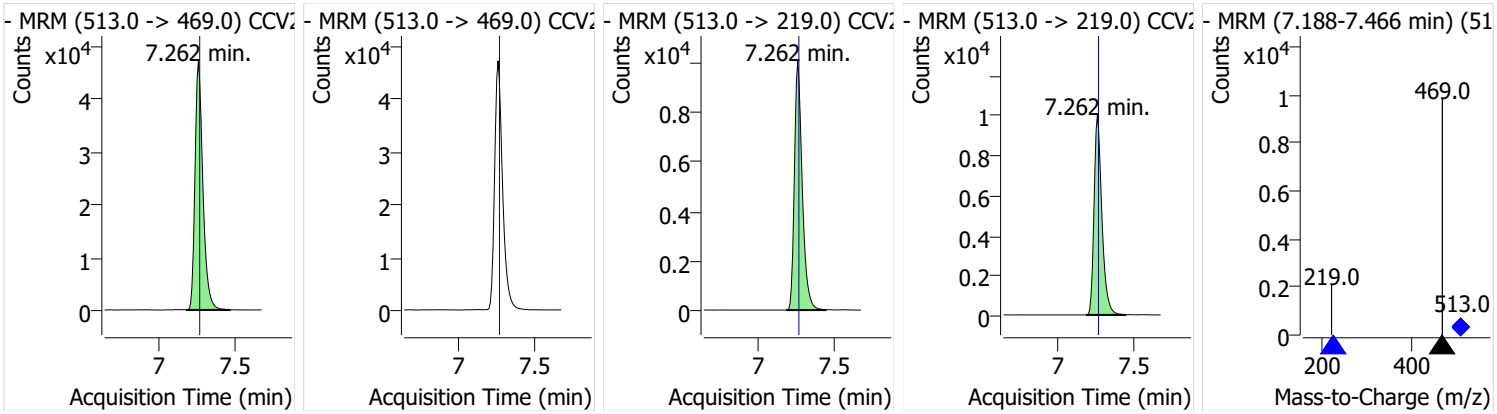

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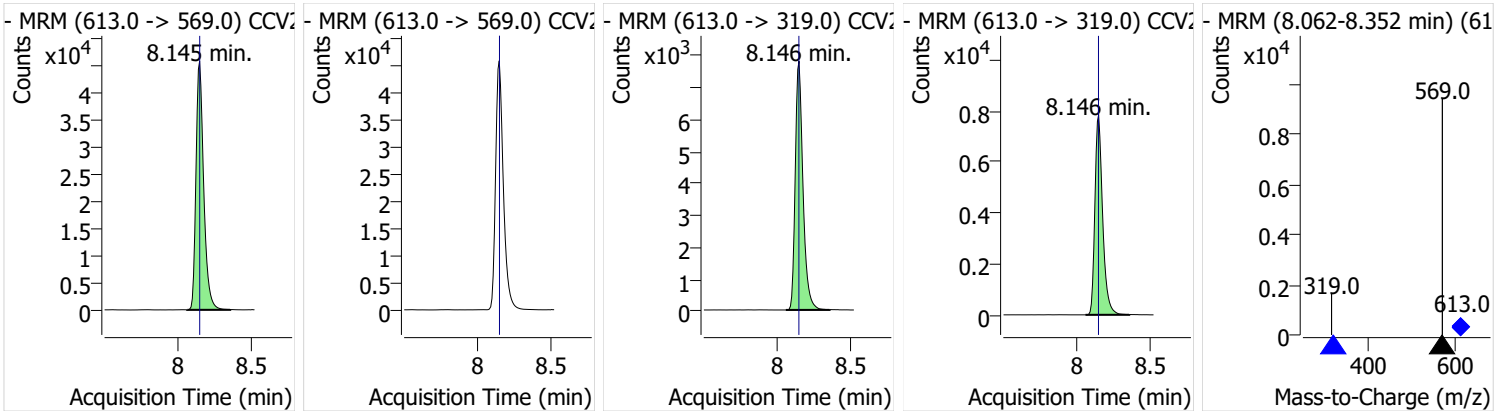

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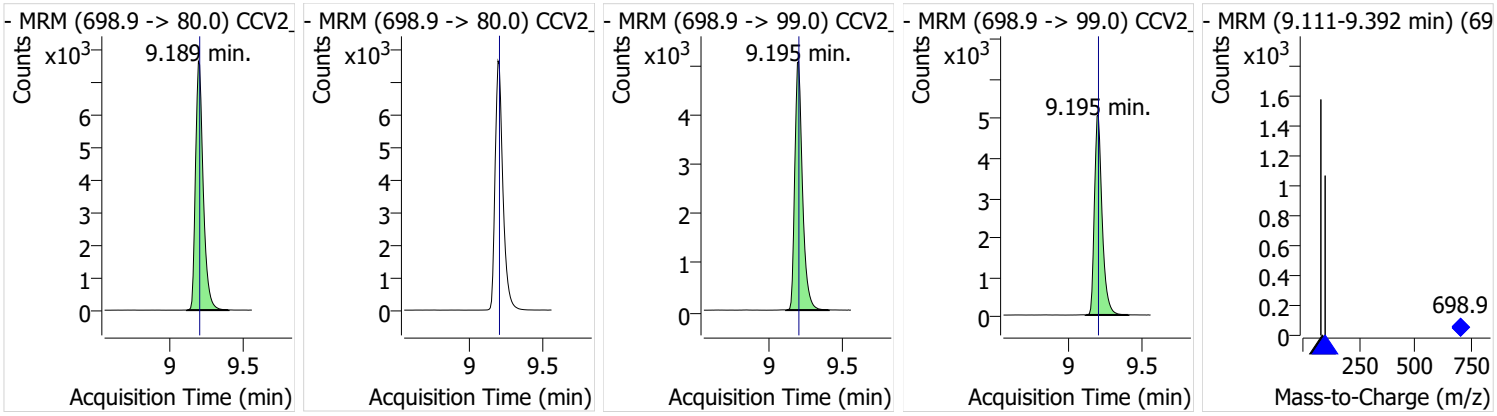

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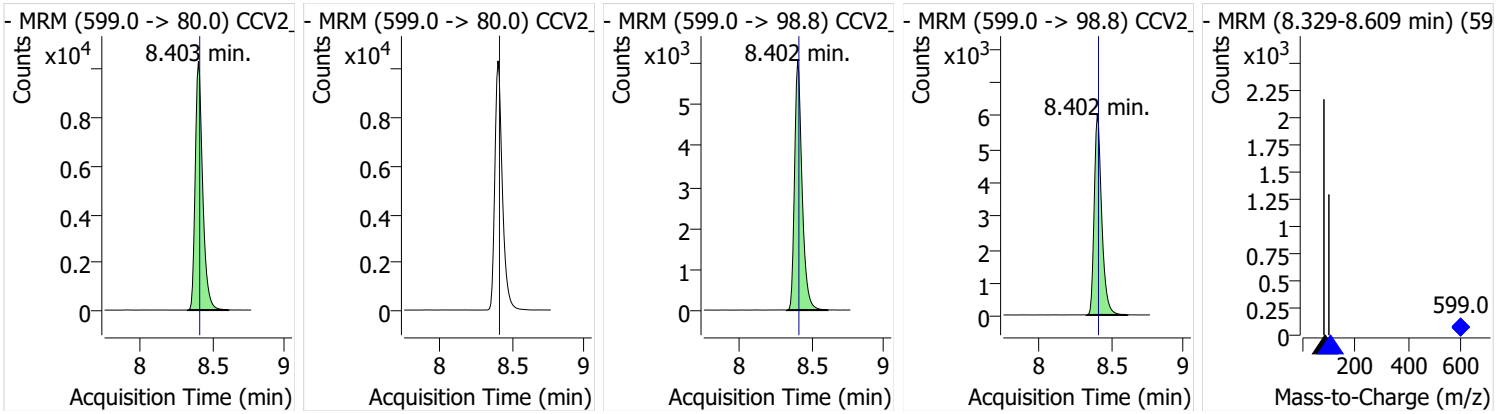

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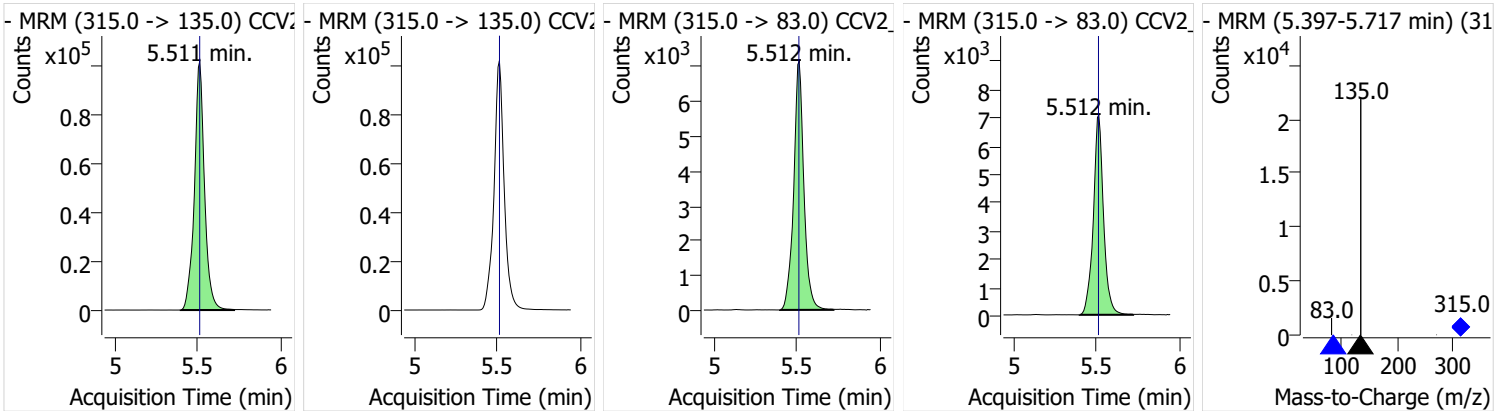

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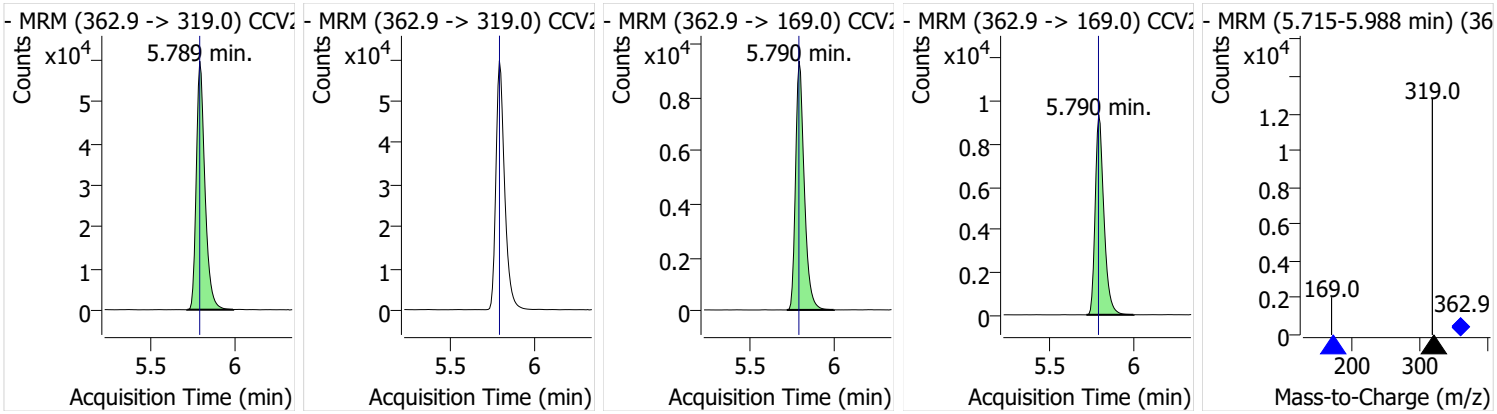

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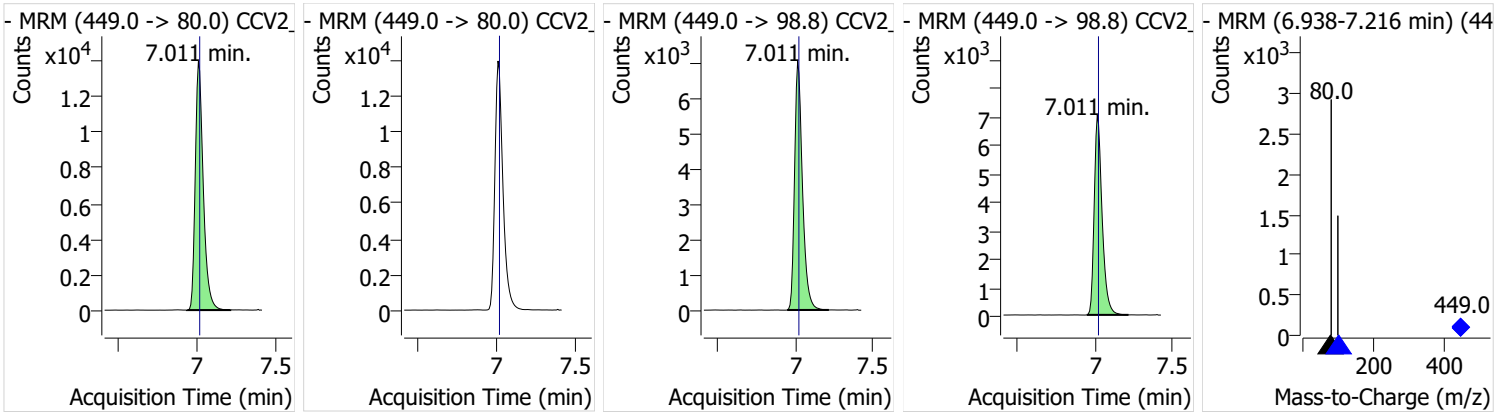

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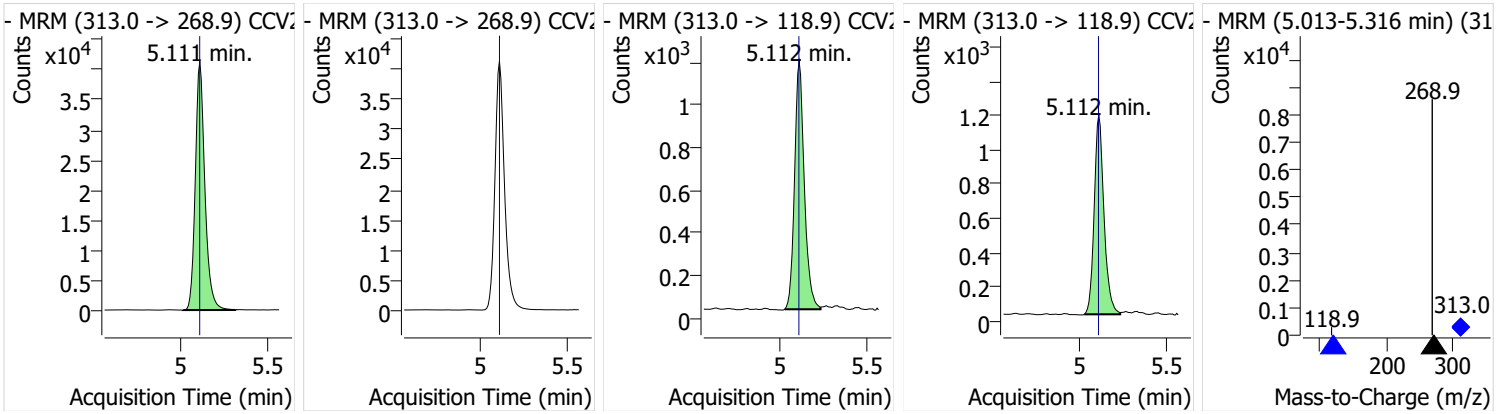

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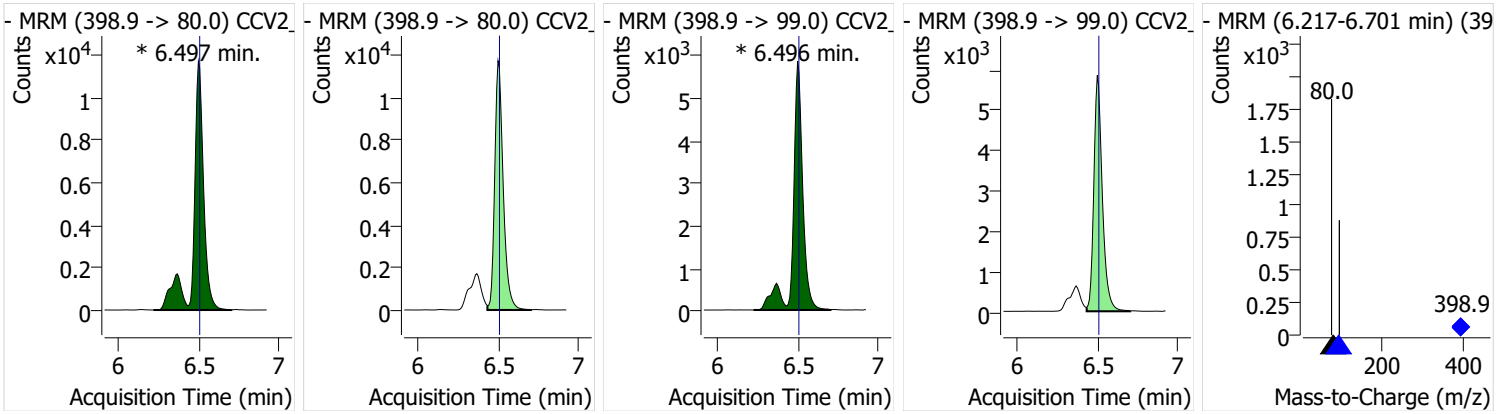

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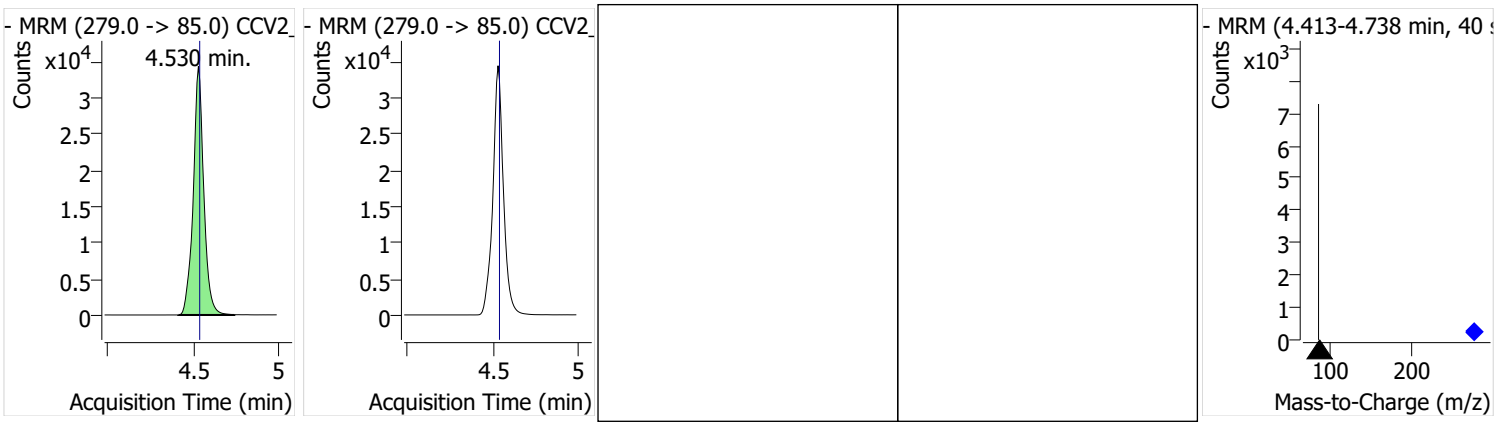

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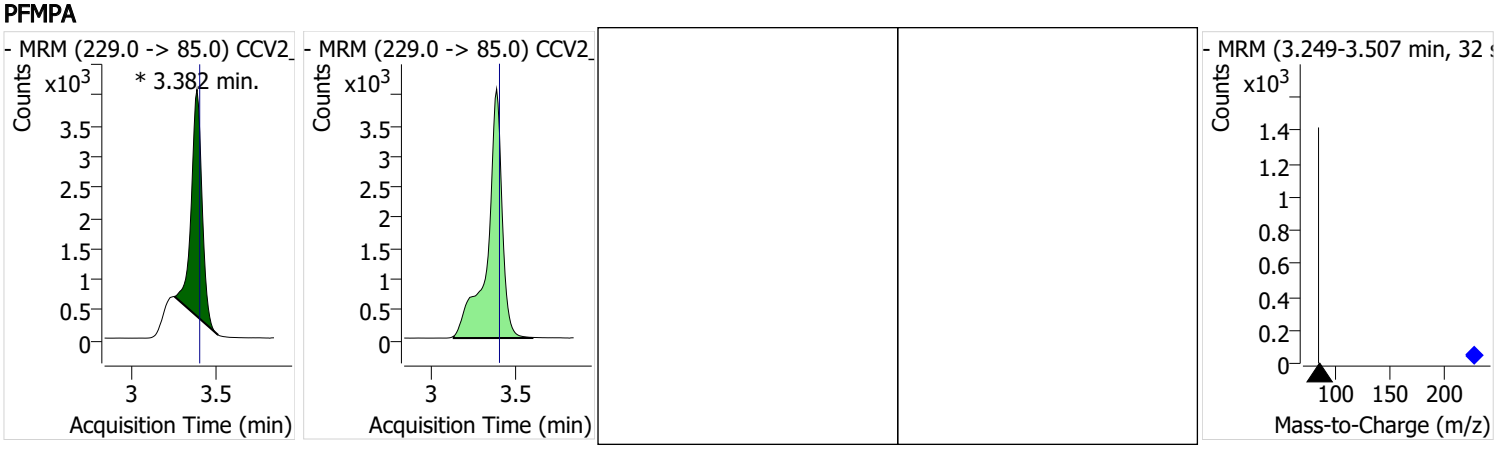

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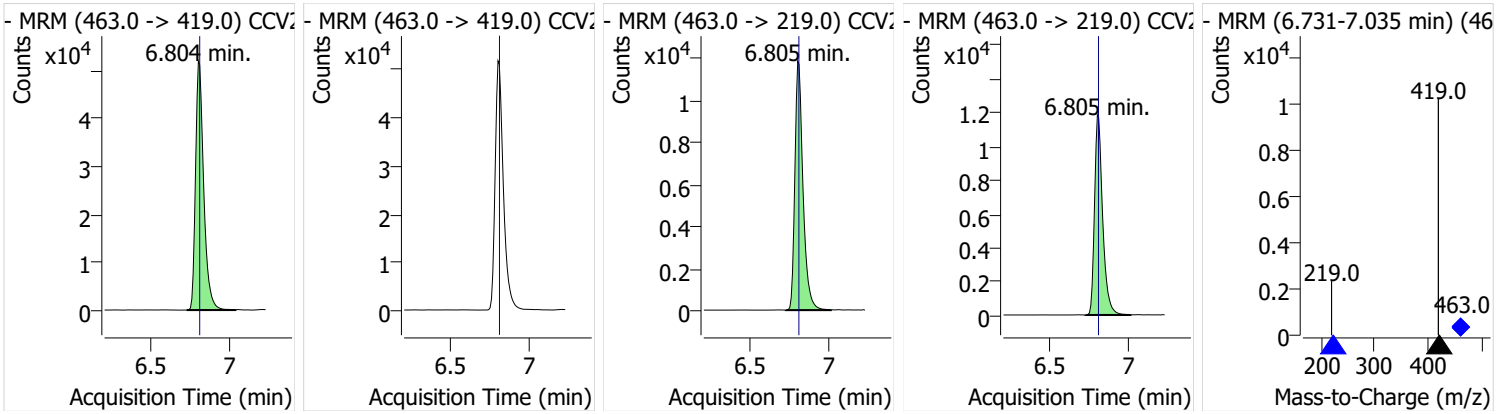

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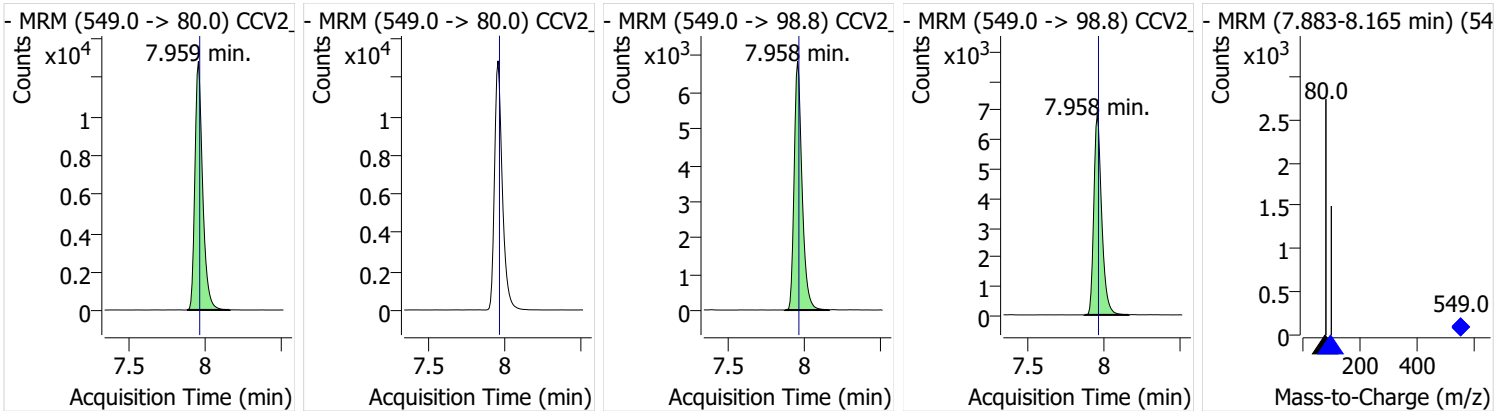

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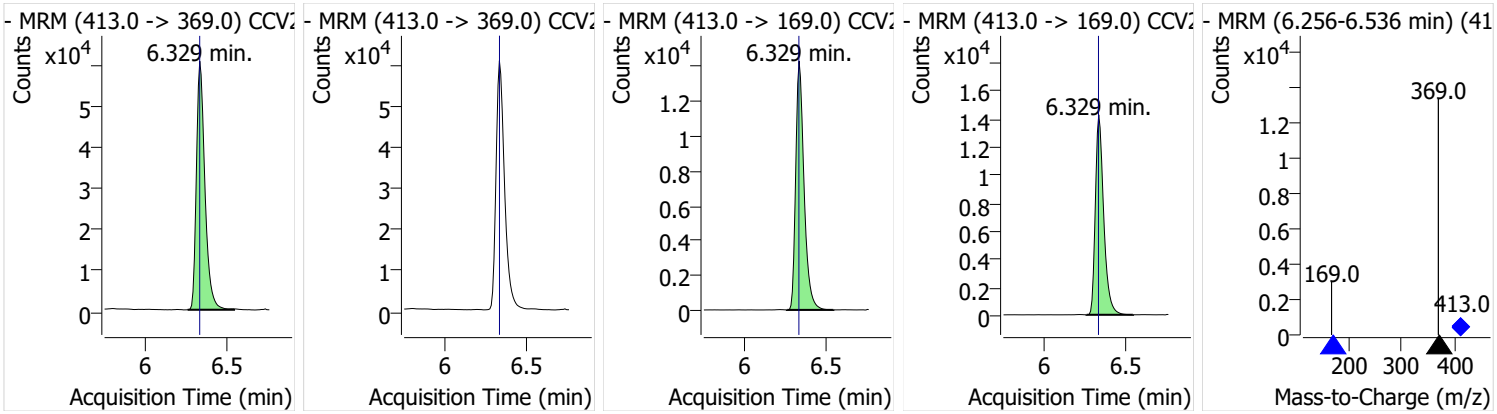

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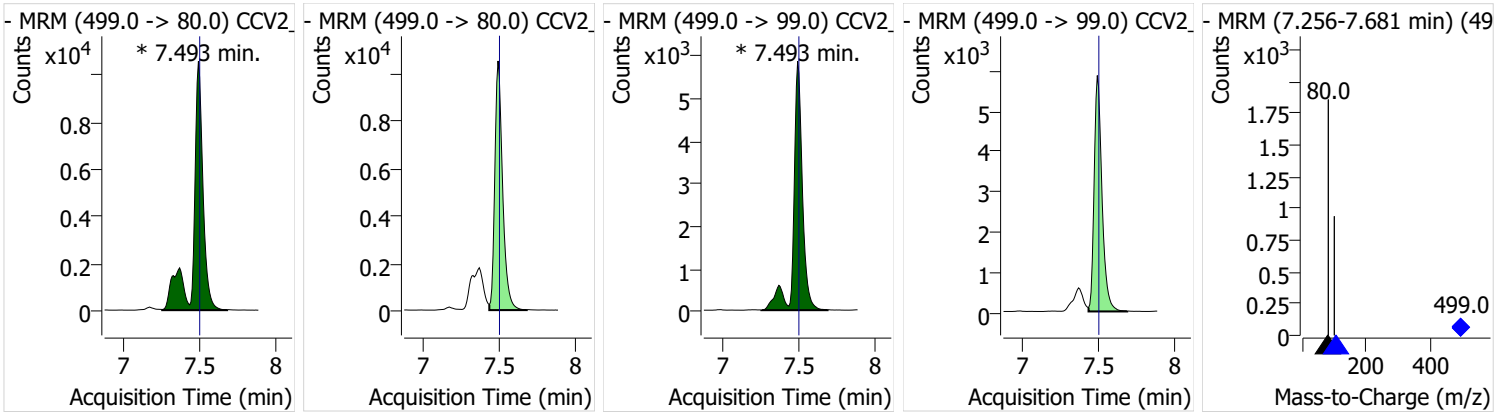

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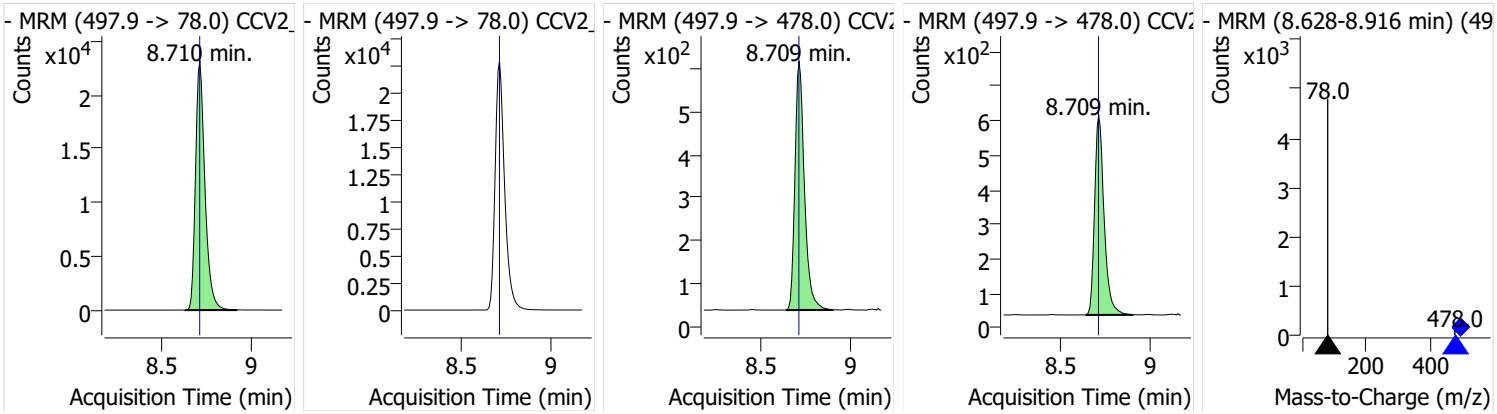

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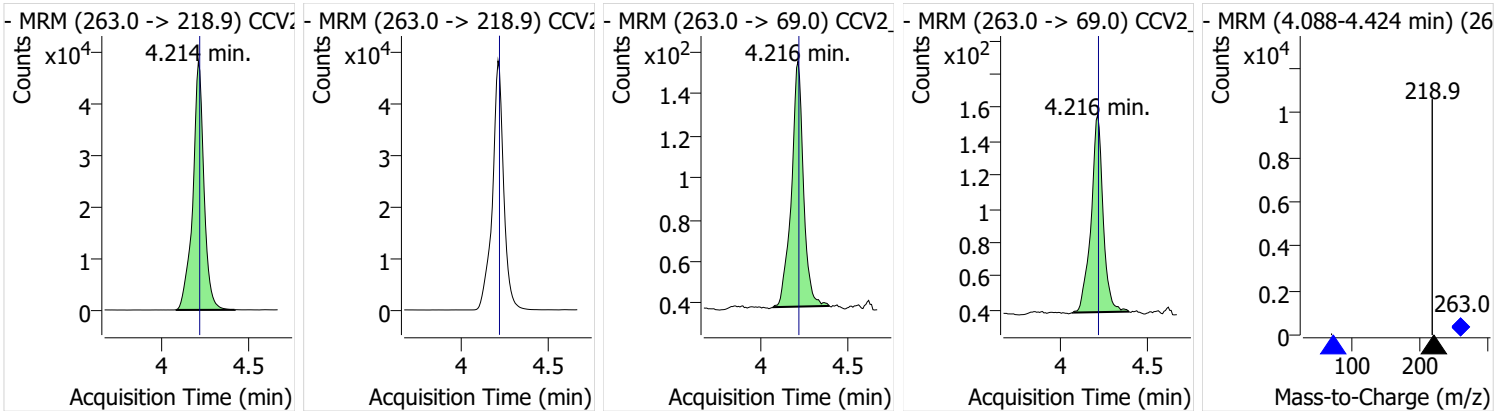

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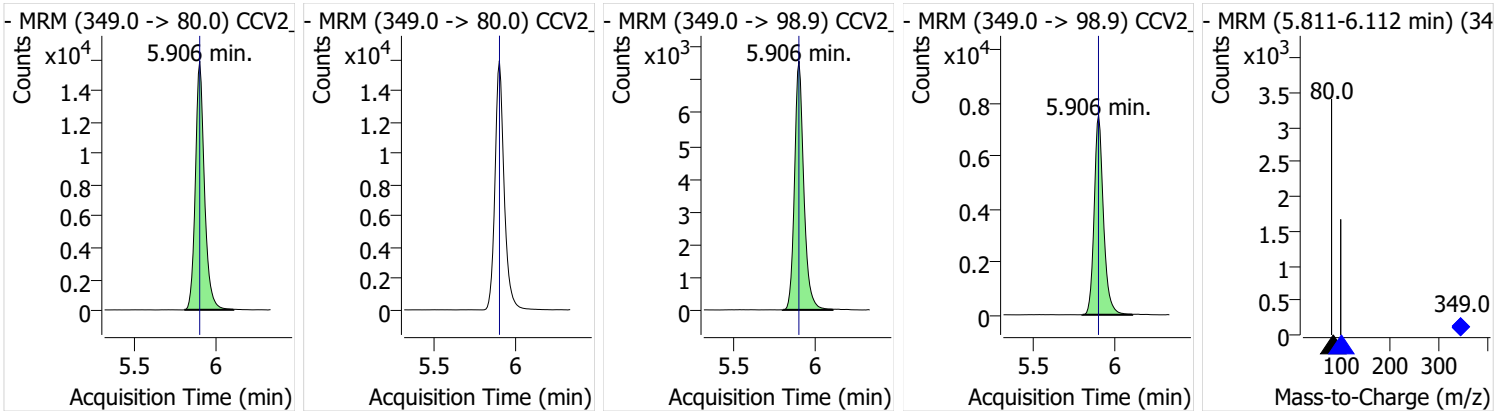

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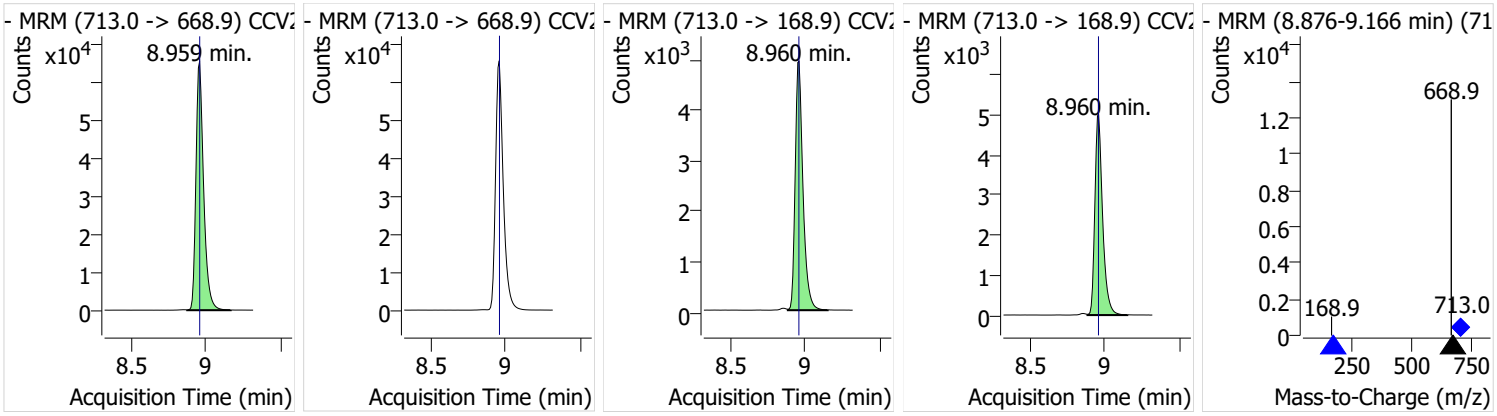

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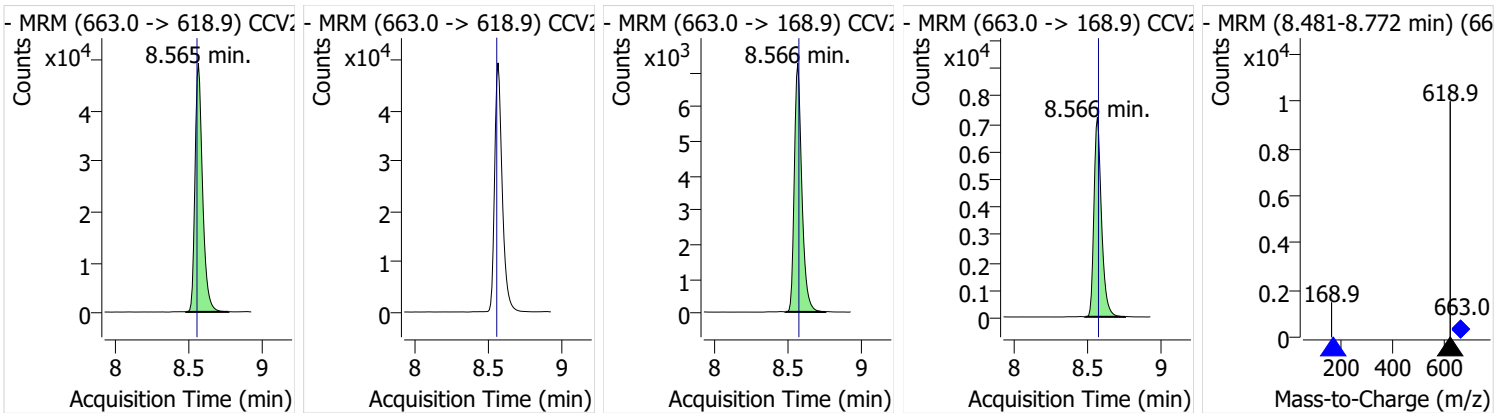

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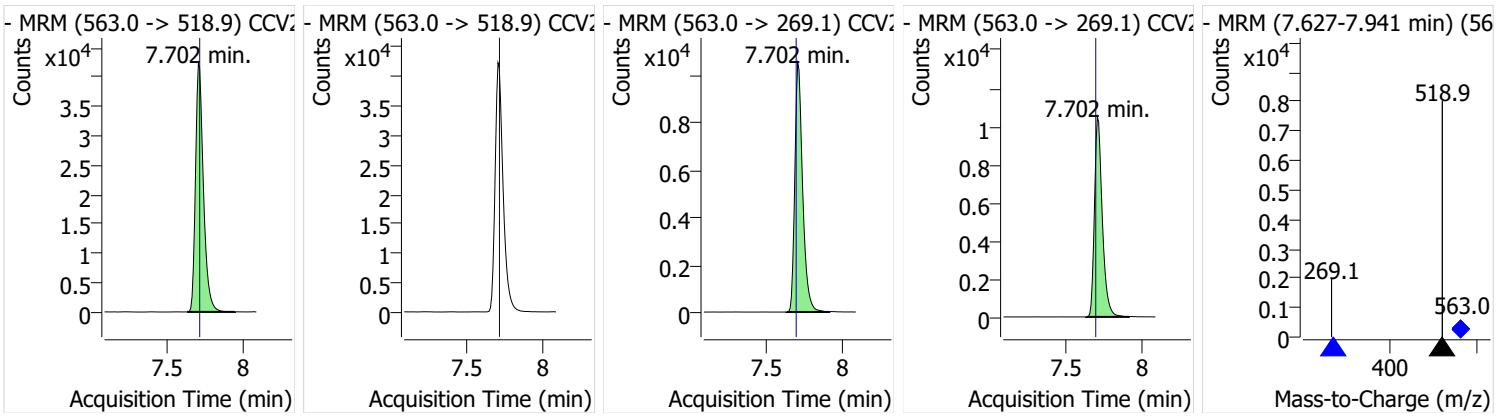

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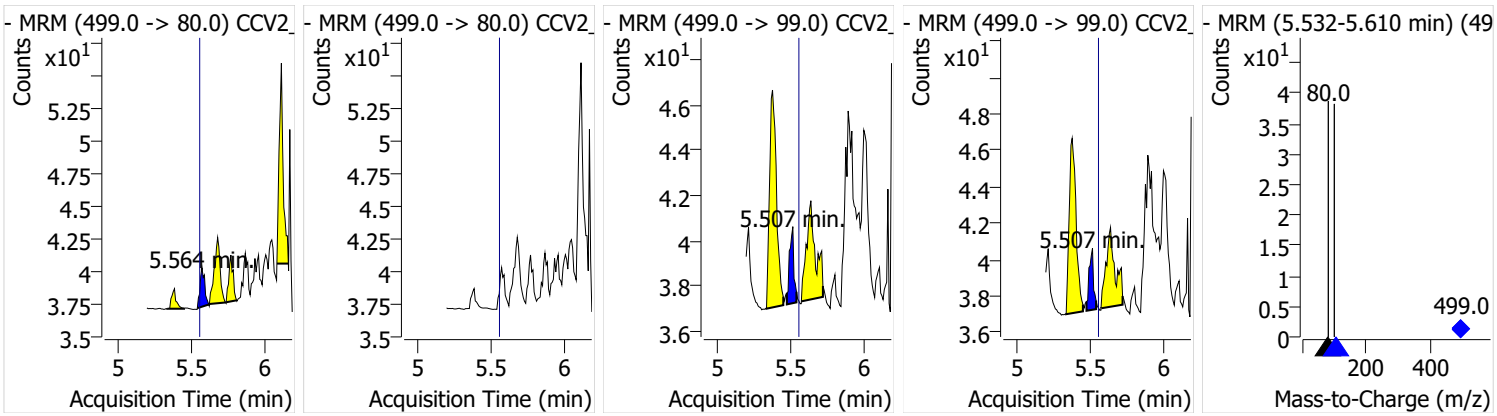
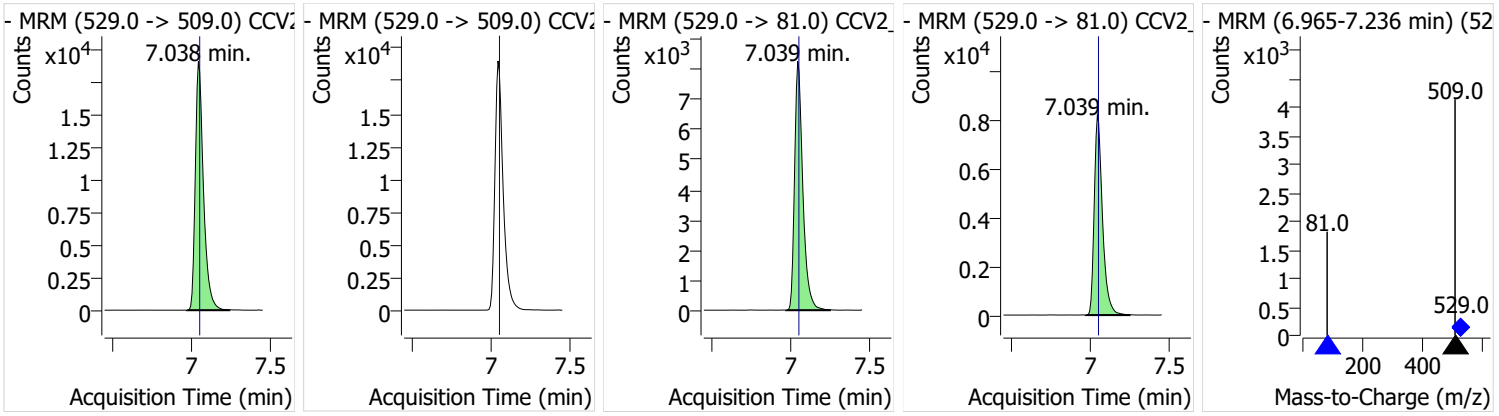


13C2-8:2FTS



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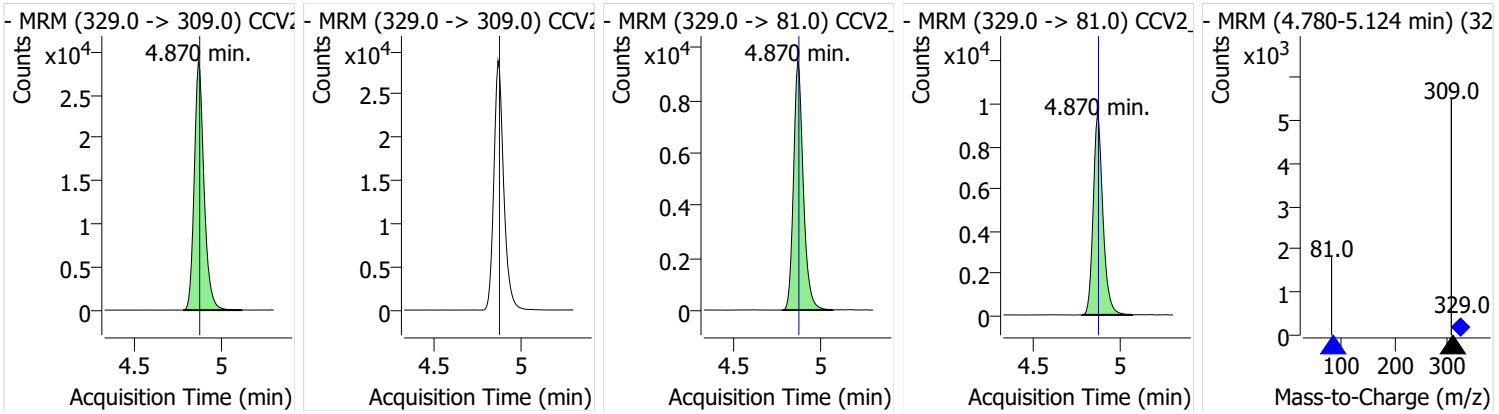

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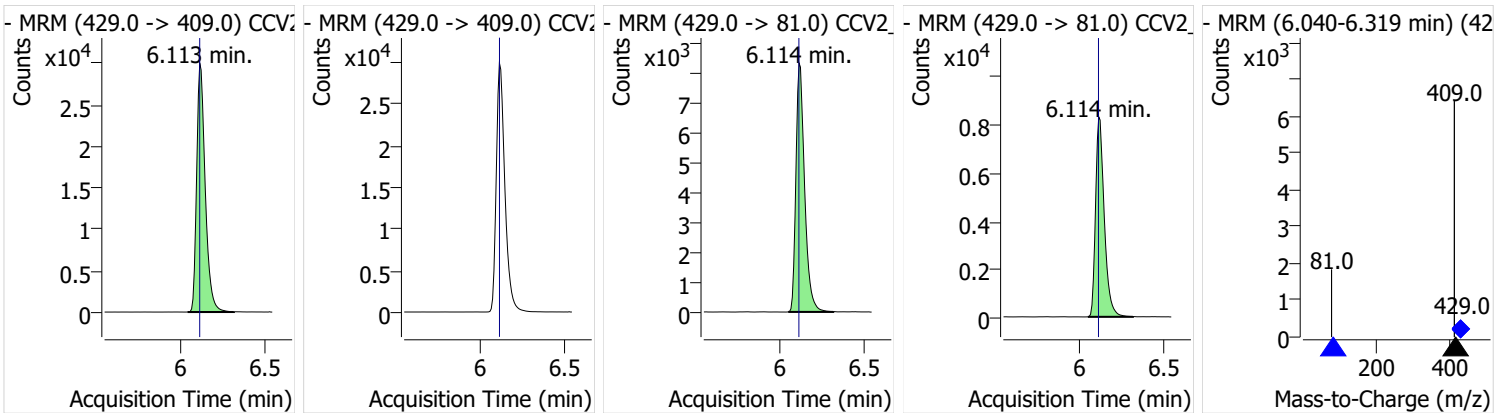

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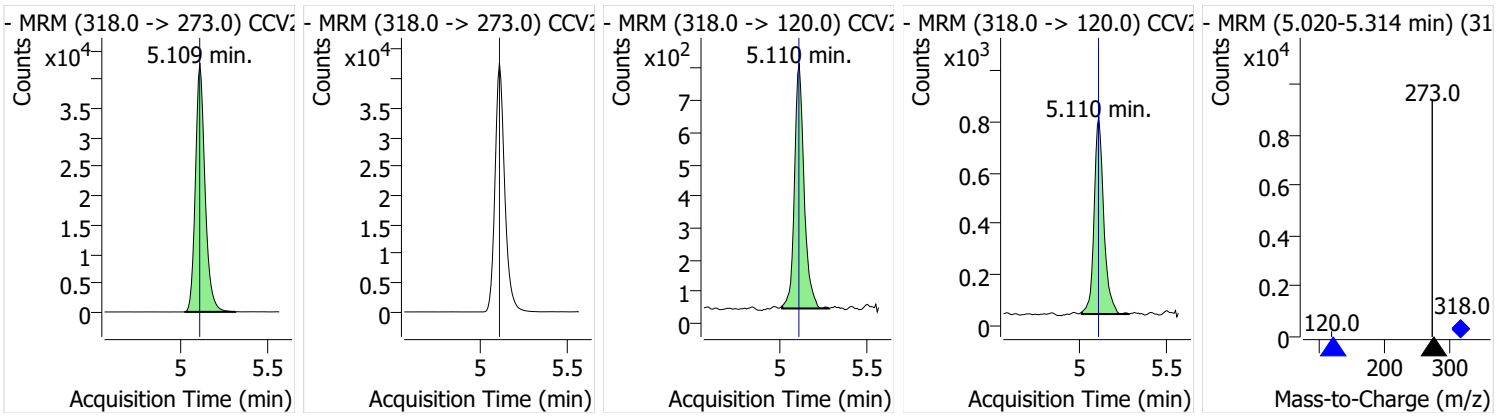

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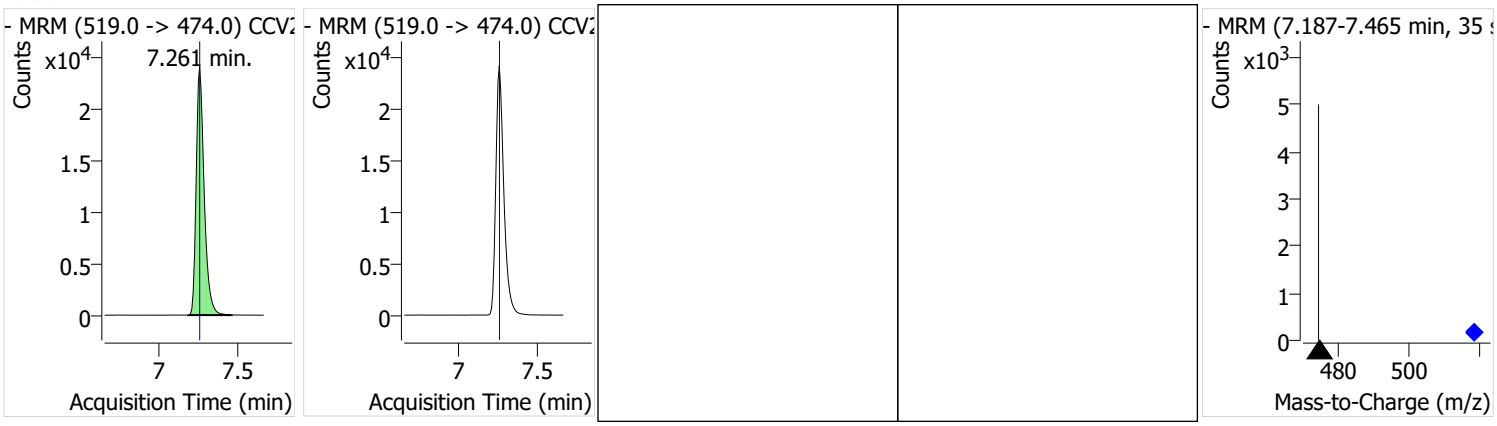

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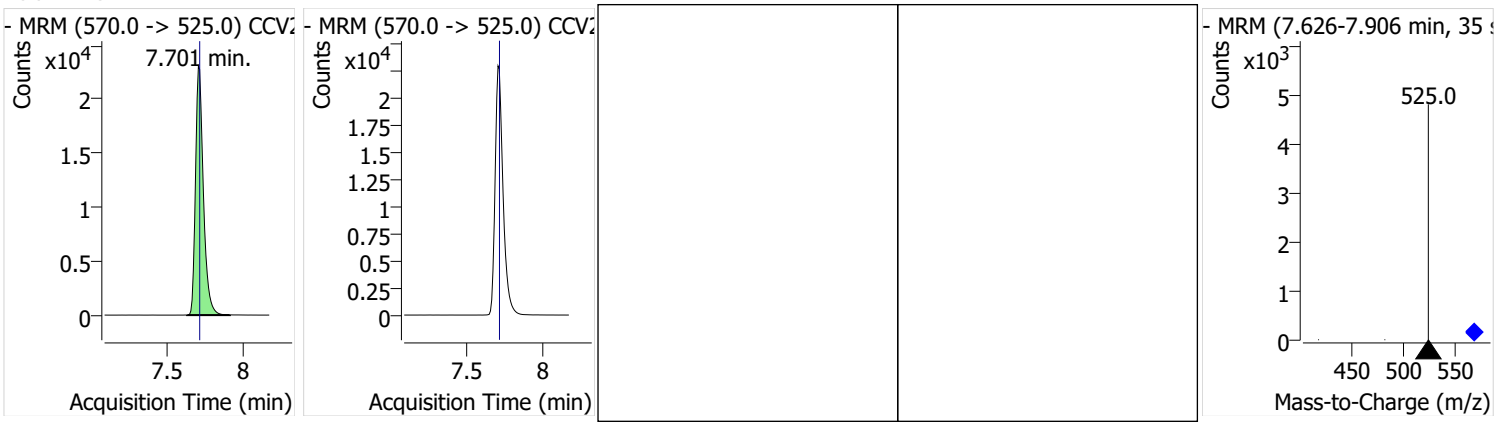

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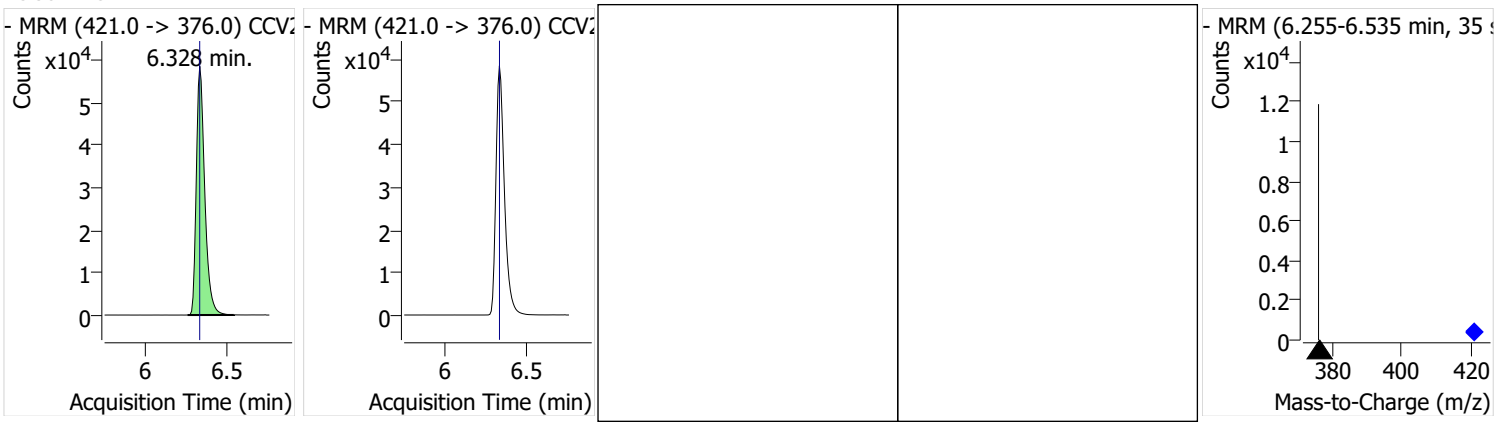

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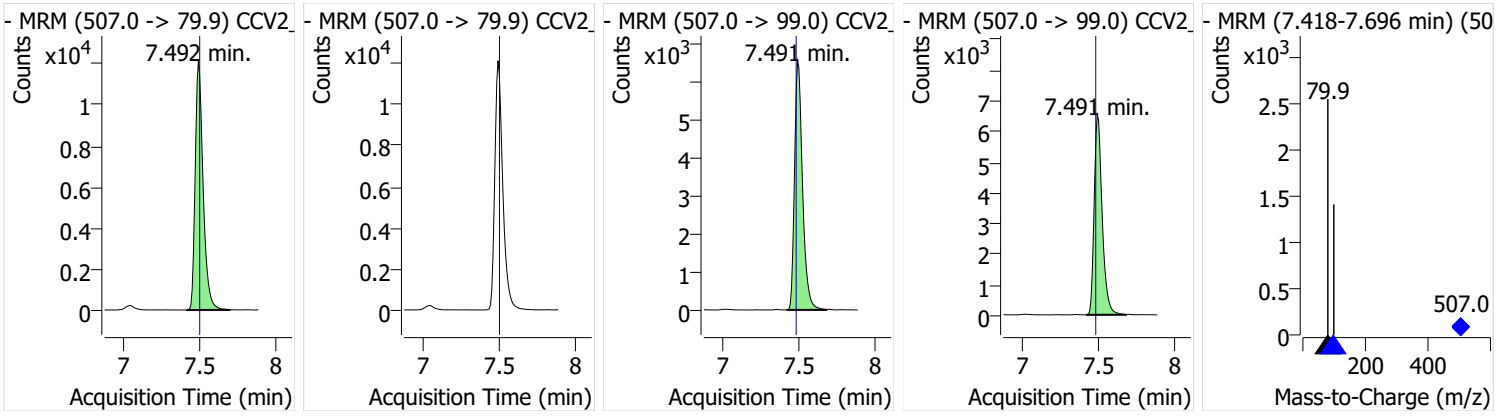

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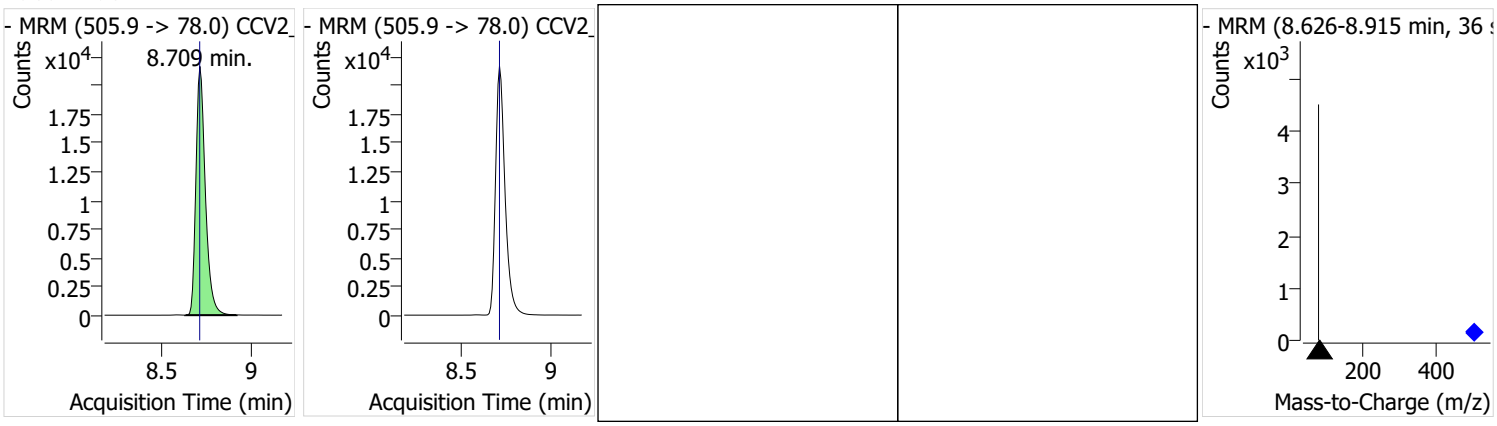

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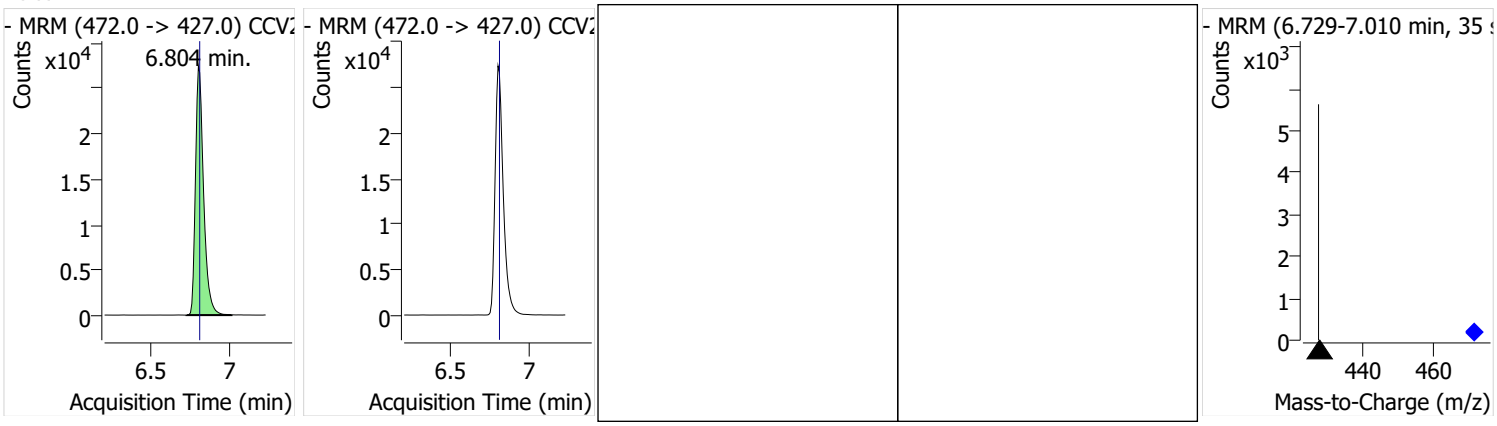

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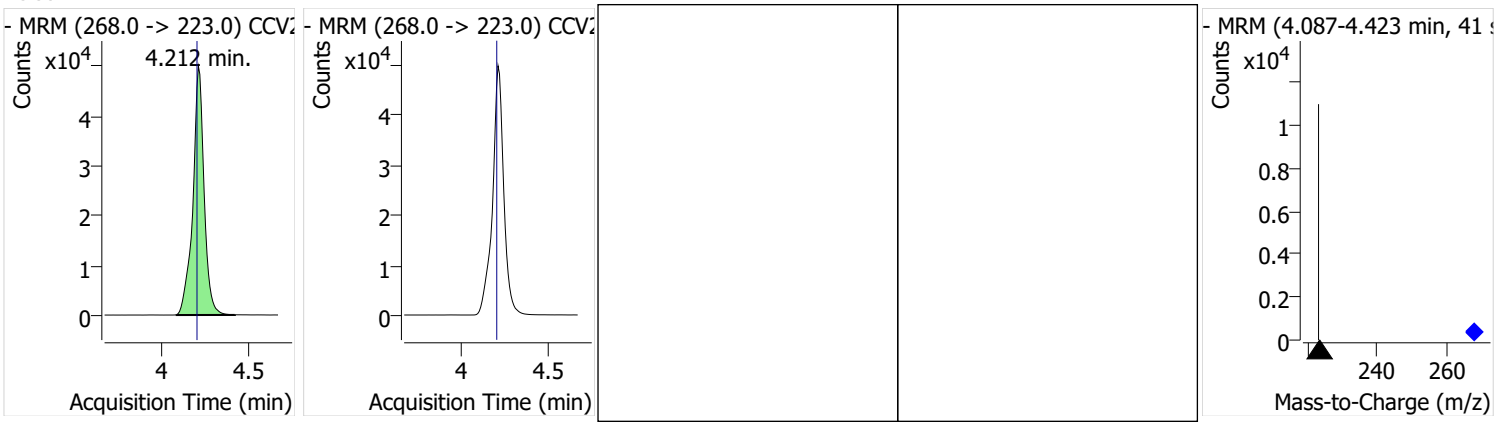

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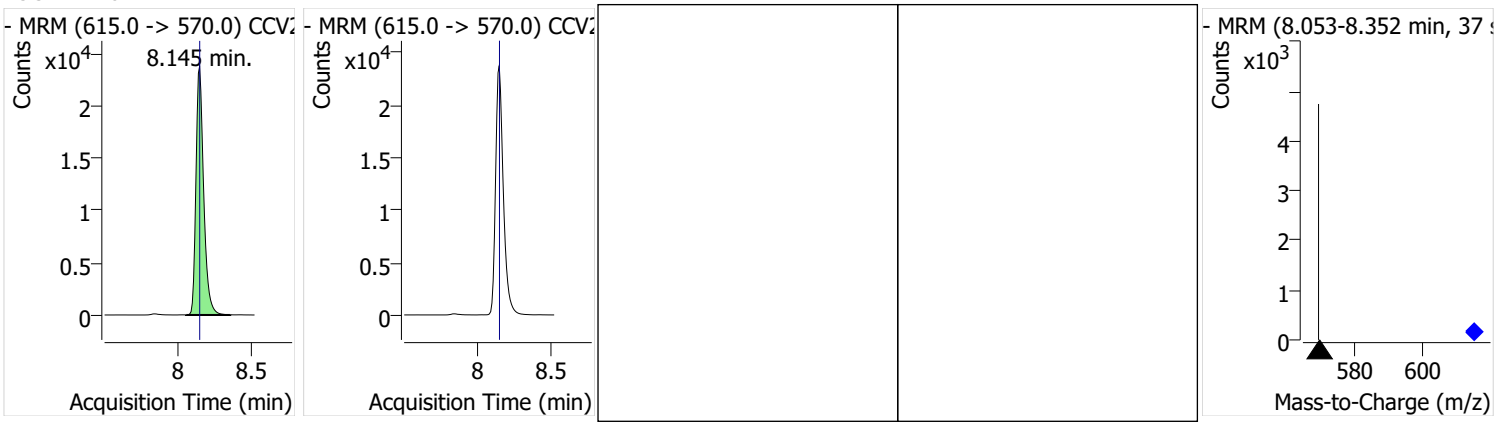

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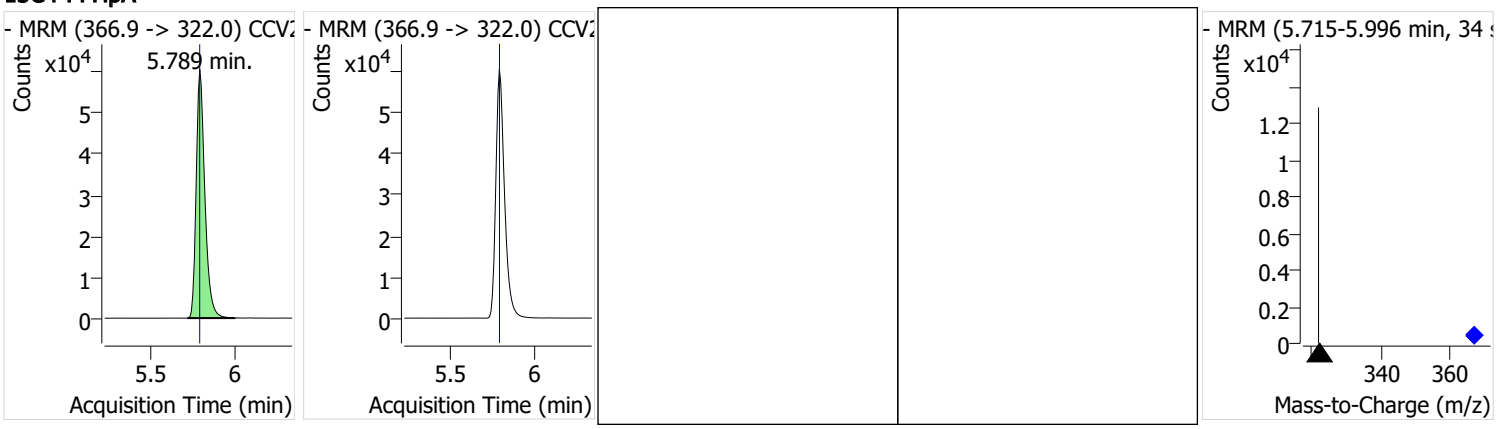

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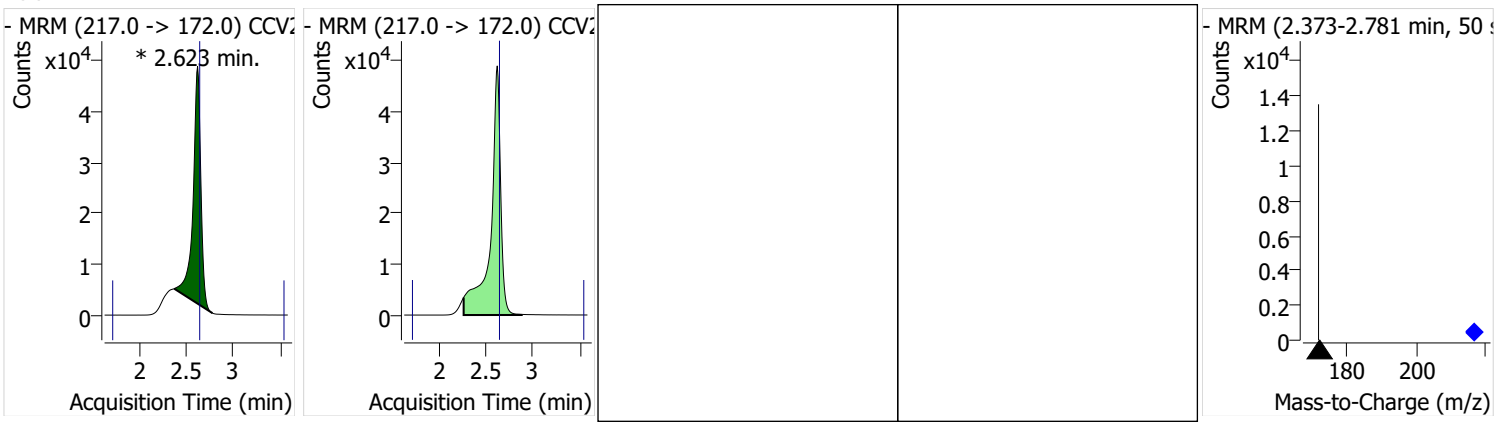

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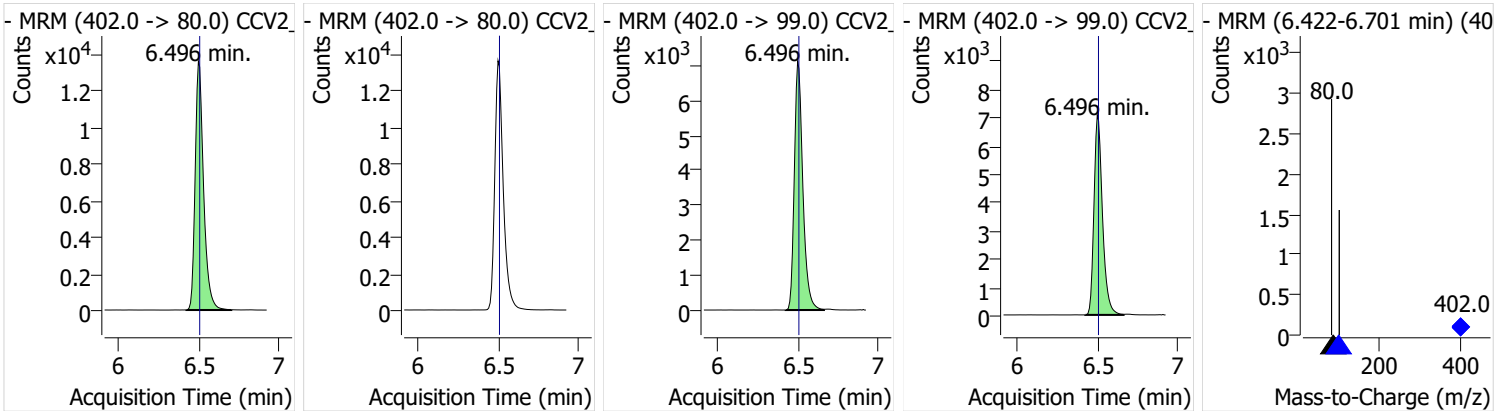

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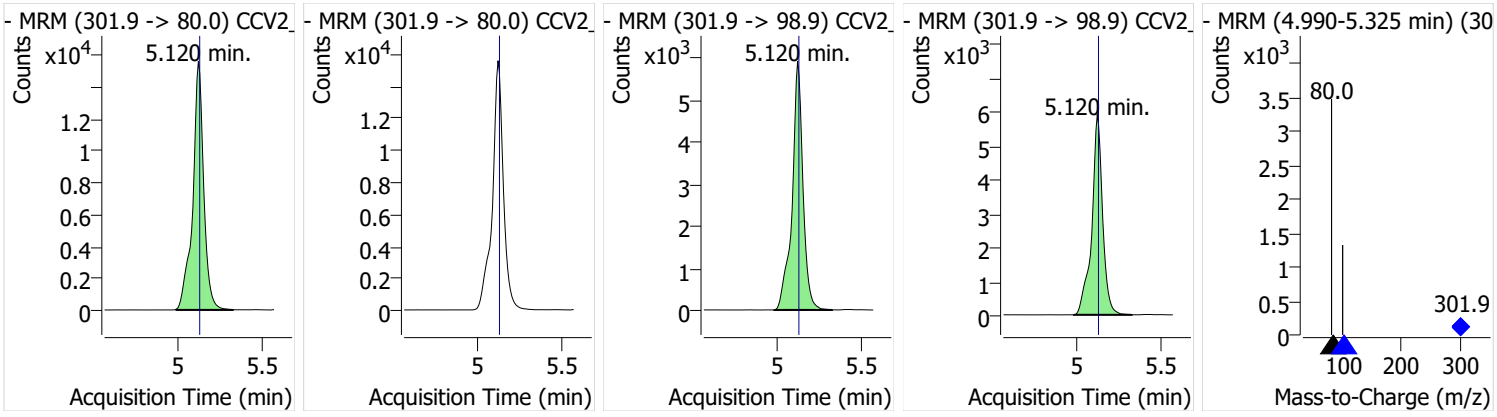

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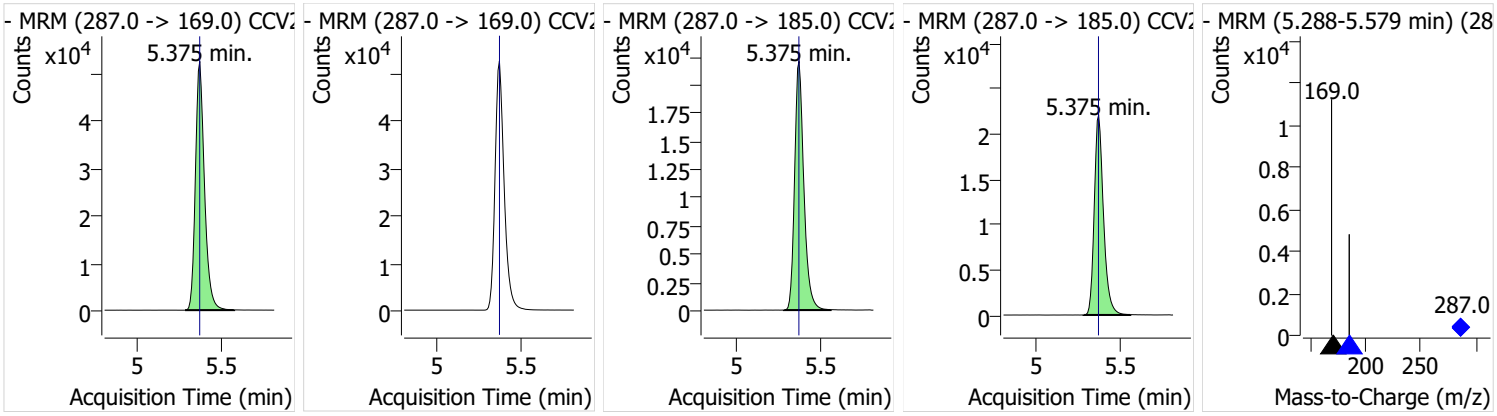

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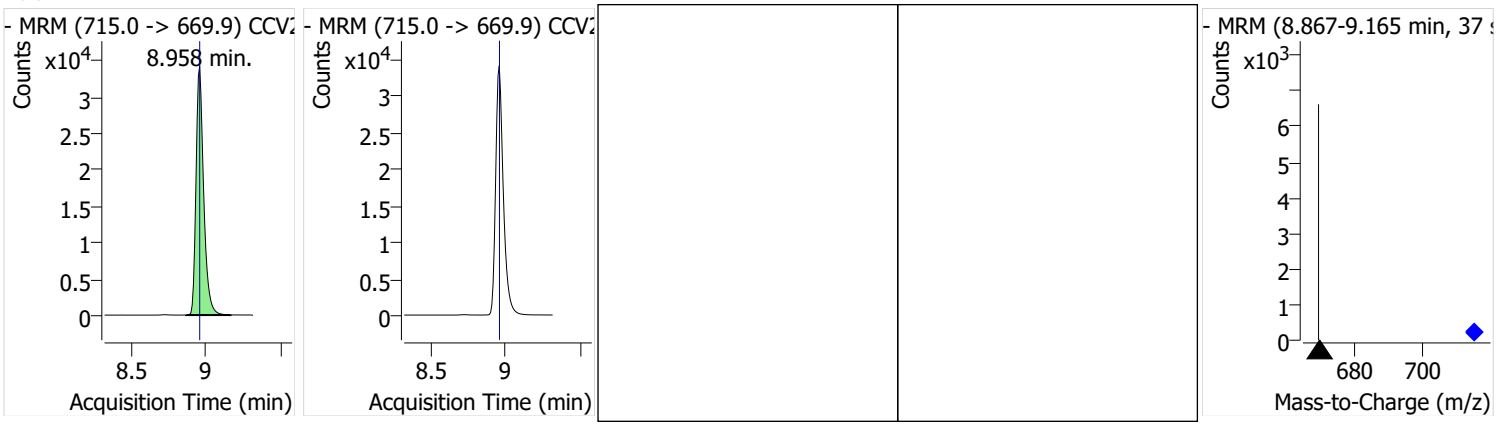
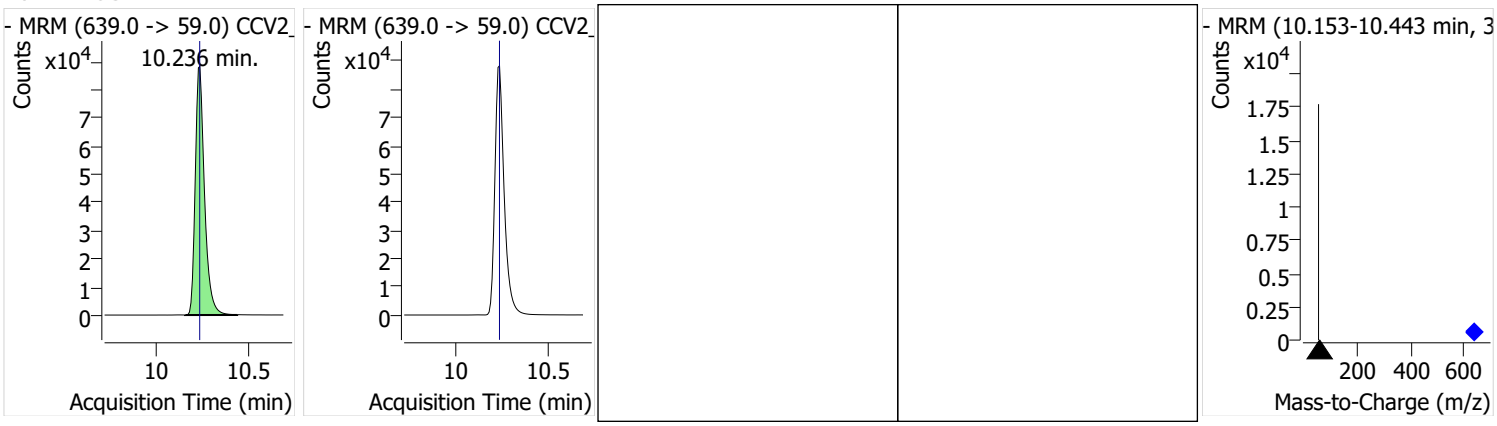
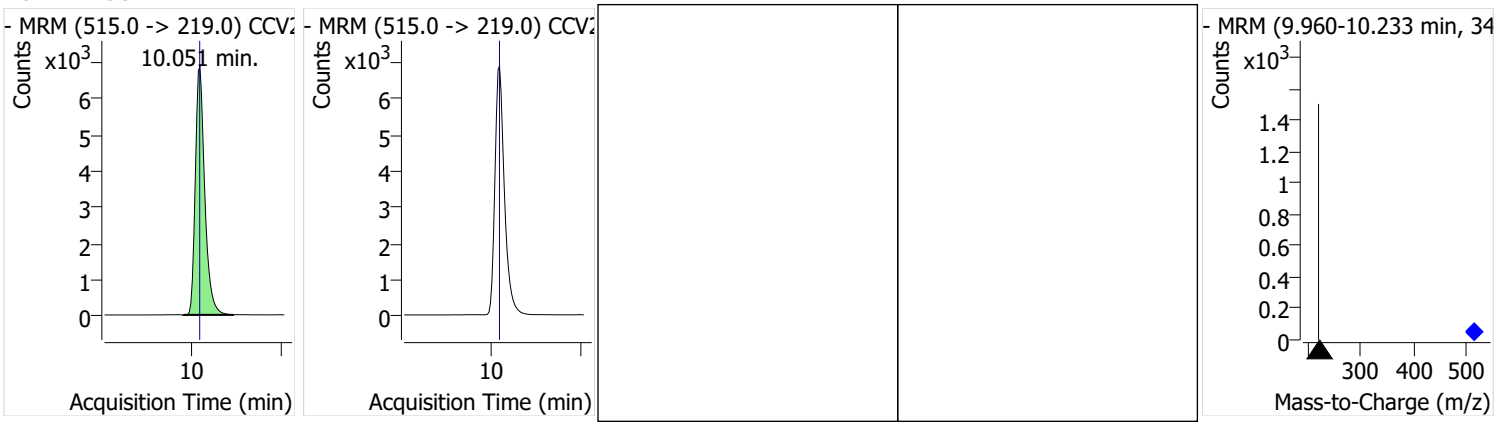


D9-NEtFOSE



D3-NMeFOSA



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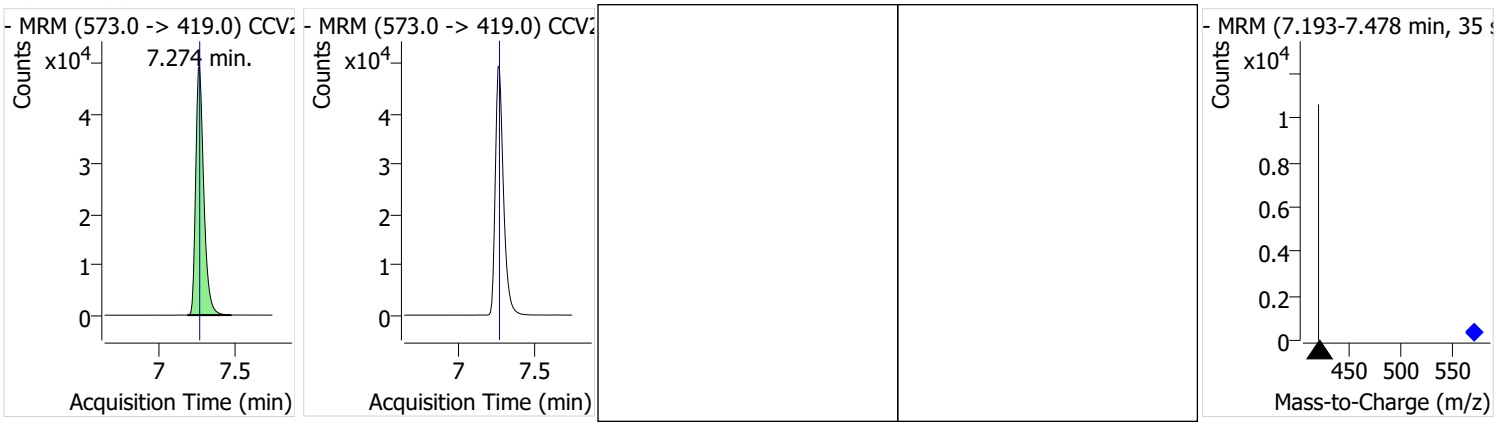
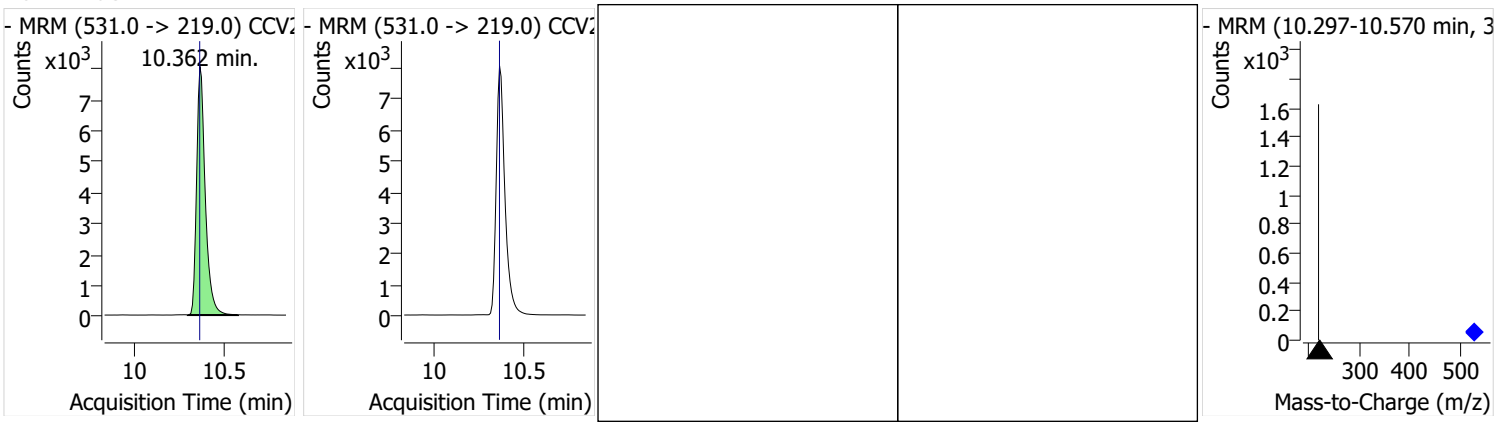
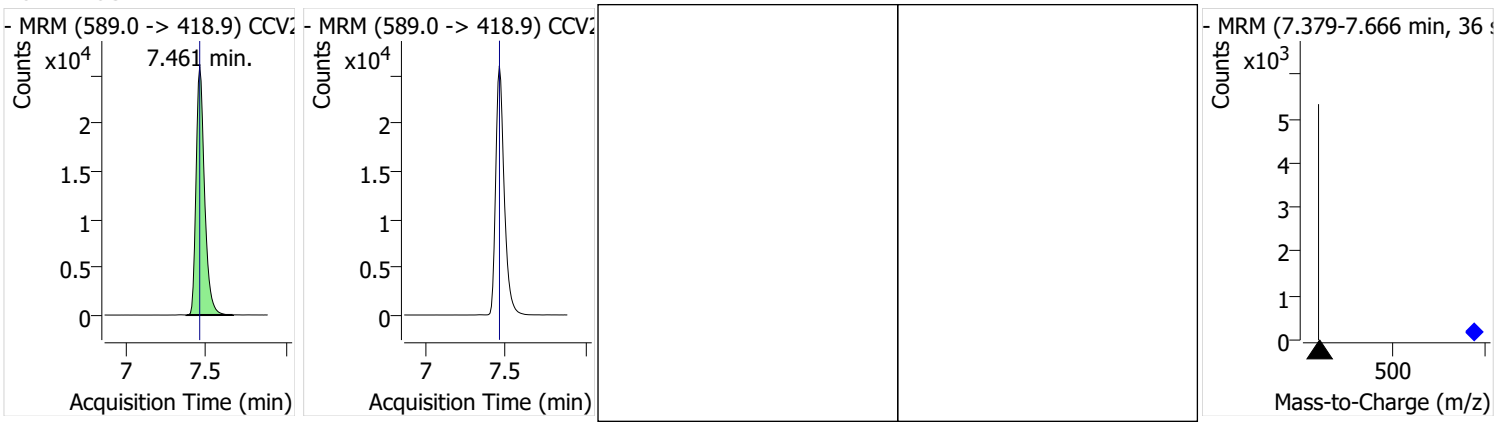


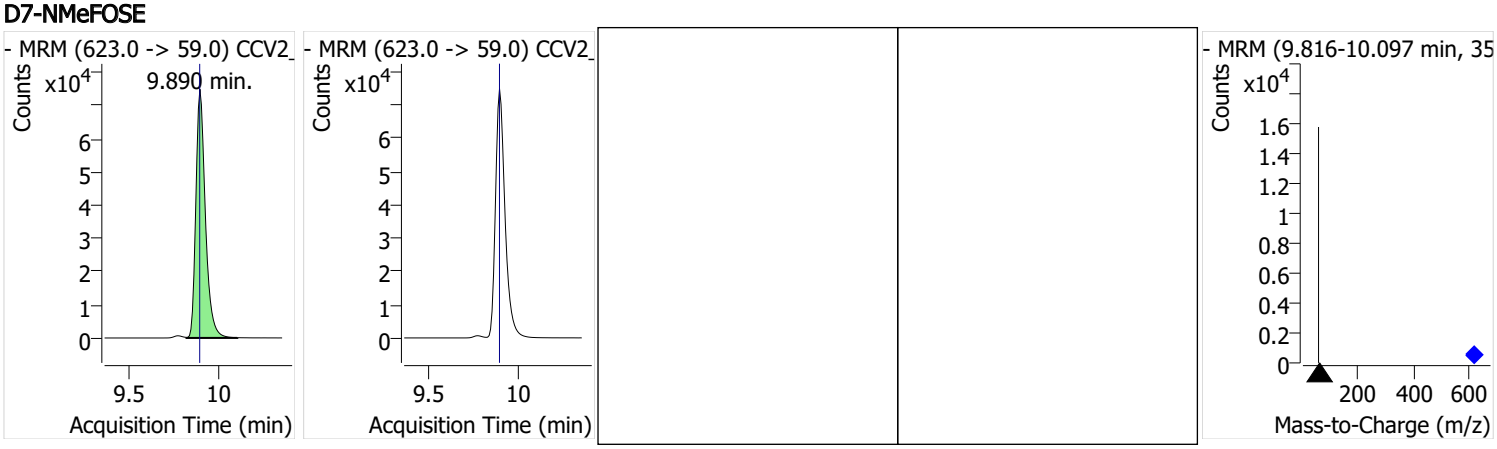
D5-NEtFOSA



D5-NEtFOSAA



D7-NMeFOSE



7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

Draft Method 1633

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	QQQ5	Calibration:	2400593
Lab File ID:	CCV3_1633_052824.d	Calibration Date:	05/28/24 00:00
Sequence:	S105135	Injection Date:	05/28/24
Lab Sample ID:	S105135-CCV3	Injection Time:	21:36

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Perfluorobutanoic acid (PFBA)	A	10.0	9.68	0.9055443	0.8768876		-3.2	30
Perfluoropentanoic acid (PFPeA)	A	5.00	4.88	0.985154	0.961577		-2.4	30
Perfluorohexanoic acid (PFHxA)	A	2.50	2.44	0.9796289	0.9569845		-2.3	30
Perfluoroheptanoic acid (PFHpA)	A	2.50	2.40	1.035117	0.9933177		-4.0	30
Perfluorooctanoic acid (PFOA)	A	2.50	2.36	1.147963	1.085917		-5.4	30
Perfluorononanoic acid (PFNA)	A	2.50	2.43	0.9847549	0.9572311		-2.8	30
Perfluorodecanoic acid (PFDA)	A	2.50	2.47	0.9791746	0.9677088		-1.2	30
Perfluoroundecanoic acid (PFUnA)	A	2.50	2.42	0.96917	0.939349		-3.1	30
Perfluorododecanoic acid (PFDoA)	A	2.50	2.50	1.003722	1.002604		-0.1	30
Perfluorotridecanoic acid (PFTrDA)	A	2.50	2.45	1.039237	1.017995		-2.0	30
Perfluorotetradecanoic acid (PFTeDA)	A	2.50	2.48	0.9678259	0.9585046		-1.0	30
Perfluorobutanesulfonic acid (PFBS)	A	2.22	2.13	1.179363	1.132313		-4.0	30
Perfluoropentanesulfonic acid (PFPeS)	A	2.35	2.26	1.354494	1.301358		-3.9	30
Perfluorohexanesulfonic acid (PFHxS)	A	2.29	2.14	1.191169	1.112342		-6.6	30
Perfluoroheptanesulfonic acid (PFHpS)	A	2.38	2.33	1.20285	1.176213		-2.2	30
Perfluorooctanesulfonic acid (PFOS)	A	2.32	2.15	1.211825	1.123555		-7.3	30
Perfluorononanesulfonic acid (PFNS)	A	2.41	2.34	1.076868	1.044227		-3.0	30
Perfluorodecanesulfonic acid (PFDS)	A	2.41	2.32	0.8744912	0.8405462		-3.9	30
Perfluorododecanesulfonic acid (PFDoS)	A	2.42	2.45	0.6106218	0.6167255		1.0	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	A	9.38	9.20	3.142915	3.086465		-1.8	30

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CONTINUING CALIBRATION VERIFICATION

Draft Method 1633

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	QQQ5	Calibration:	2400593
Lab File ID:	CCV3_1633_052824.d	Calibration Date:	05/28/24 00:00
Sequence:	S105135	Injection Date:	05/28/24
Lab Sample ID:	S105135-CCV3	Injection Time:	21:36

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	A	9.50	9.58	2.842618	2.865728		0.8	30
1H,1H,2H,2H-Perfluorodecan e sulfonic acid (8:2FTS)	A	9.62	9.46	1.79241	1.765421		-1.5	30
Perfluorooctanesulfonamide (PFOSA)	A	2.50	2.43	1.076938	1.044679		-3.0	30
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	A	2.50	2.49	1.173375	1.167087		-0.5	30
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	A	2.50	2.46	1.323332	1.303343		-1.5	30
N-MeFOSAA (NMeFOSAA)	A	2.50	2.44	0.3646716	0.3565717		-2.2	30
N-EtFOSAA (NEtFOSAA)	A	2.50	2.25	1.057171	0.9512608		-10.0	30
N-methylperfluorooctanesulfo namidoethanol(NMeFOSE)	A	25.0	25.0	1.119899	1.121284		0.1	30
N-ethylperfluorooctanesulfona midoethanol (NEtFOSE)	A	25.0	25.5	1.148085	1.170681		2.0	30
Hexafluoropropylene oxide dimer acid (HFPO-DA)	A	10.0	9.01	0.8537594	0.7695897		-9.9	30
4,8-Dioxa-3H-perfluorononano ic acid (ADONA)	A	9.44	8.38	7.516548	6.671169		-11.2	30
9Cl-PF3ONS (F53B Minor)	A	9.38	9.39	5.656091	5.681359		0.4	30
11Cl-PF3OUdS (F53B Major)	A	9.44	9.74	3.784009	3.900742		3.1	30
3-Perfluoropropyl propanoic acid (FPrPA)(3:3FTCA)	A	25.0	26.1	4.394286E-02	4.589525E-02		4.4	30
2H,2H,3H,3H-Perfluorooctano ic acid(FPePA)(5:3FTCA)	A	125	120	0.1283846	0.1233508		-3.9	30
3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTCA)	A	125	118	0.1607822	0.1520243		-5.4	30
Perfluoro(2-ethoxyethane)sulf onic acid (PFEESA)	A	4.45	4.51	1.467067	1.484286		1.2	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	A	5.00	5.20	6.968996E-02	0.0724122		3.9	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	A	5.00	4.75	0.6583079	0.6256734		-5.0	30
Nonafluoro-3,6-dioxaheptanoi c acid (NFDHA)	A	5.00	4.82	7.003551E-02	6.754317E-02		-3.6	30
13C4-PFBA	A	10.0	10.7	1.092274	1.168797		7.0	30

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

Draft Method 1633

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	QQQ5	Calibration:	2400593
Lab File ID:	CCV3_1633_052824.d	Calibration Date:	05/28/24 00:00
Sequence:	S105135	Injection Date:	05/28/24
Lab Sample ID:	S105135-CCV3	Injection Time:	21:36

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
13C5-PFPeA	A	5.00	4.85	0.7854588	0.7611606		-3.1	30
13C5-PFHxA	A	2.50	2.58	1.059253	1.092954		3.2	30
13C4-PFHpA	A	2.50	2.65	1.381858	1.463832		5.9	30
13C8-PFOA	A	2.50	2.63	8.180126	8.616526		5.3	30
13C9-PFNA	A	1.25	1.28	0.7691169	0.7887715		2.6	30
13C6-PFDA	A	1.25	1.29	0.9953557	1.026766		3.2	30
13C7-PFUnA	A	1.25	1.31	0.9305727	0.974804		4.8	30
13C2-PFDoA	A	1.25	1.30	0.9604648	0.9968395		3.8	30
13C2-PFTeDA	A	1.25	1.31	1.295151	1.357111		4.8	30
13C3-PFBS	A	2.50	2.58	1.484657	1.533091		3.3	30
13C3-PFHxS	A	2.50	2.62	1.025978	1.077101		5.0	30
13C8-PFOS	A	2.50	2.54	0.9272679	0.9416551		1.6	30
13C2-4:2FTS	A	5.00	4.83	1.272731	1.228951		-3.4	30
13C2-6:2FTS	A	5.00	4.98	1.131247	1.127049		-0.4	30
13C2-8:2FTS	A	5.00	5.02	0.6827405	0.6848614		0.3	30
13C8-PFOSA	A	2.50	2.62	1.675551	1.756875		4.9	30
D3-NMeFOSA	A	2.50	2.41	0.547367	0.5285995		-3.4	30
D5-NEtFOSA	A	2.50	2.47	0.5572248	0.5505323		-1.2	30
D3-NMeFOSAA	A	5.00	5.40	1.857945	2.006006		8.0	30
D5-NEtFOSAA	A	5.00	5.53	0.9301541	1.02865		10.6	30
D7-NMeFOSE	A	25.0	26.2	0.50654	0.5301438		4.7	30
D9-NEtFOSE	A	25.0	25.6	0.5420359	0.554718		2.3	30
13C3-HFPO-DA	A	10.0	10.1	0.3037858	0.3082448		1.5	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CCVS.batch.bin		
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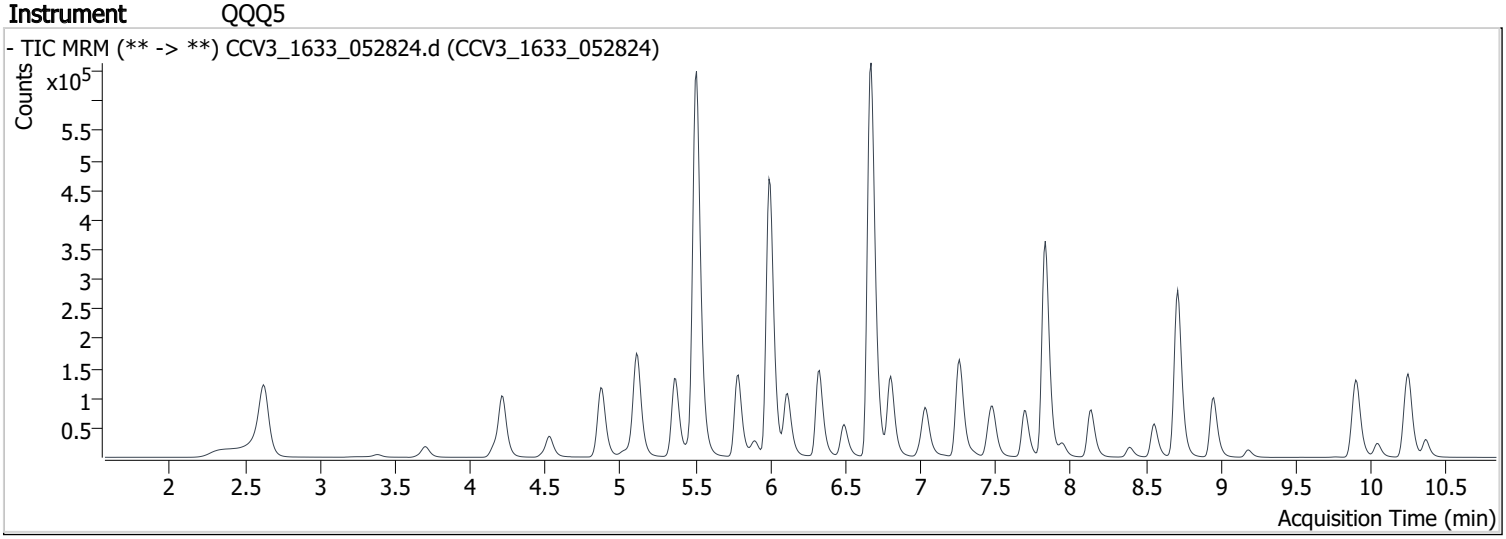
Acq. Time	5/28/2024 9:36 PM	**Data File**	CCV3_1633_052824.d
Sample Type	CC	**Sample Name**	CCV3_1633_052824
Dilution	1	**Acq. Method**	1633_ACQUISITION.m
Sample Comment	E#24E0158	**Processing method**	1633_052824.m
Instrument	QQQ5		



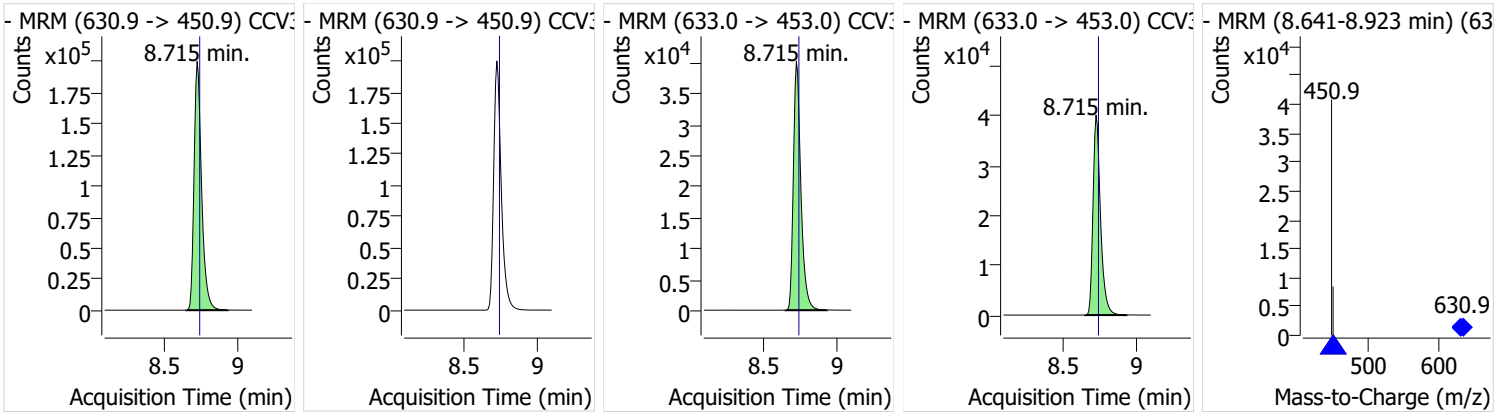
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
11Cl-PF3OUdS	8.715	708389	264278.88		13C3-HFPODA - ISTD	5.367	192377	9.7377	ng/ml			
633.0 -> 453.0			69447.43	20.1								
3:3FTCA	3.707	54506	30438.31		13C5-PFPeA - ISTD	4.212	237522	26.1107	ng/ml			
241.0 -> 117.0			2691.92	50.6								
4:2FTS	4.871	226235	107398.07		13C2-4:2FTS - ISTD	4.870	39072	9.2019	ng/ml			
327.0 -> 80.9			27866.08	34.5								
5:3FTCA	5.509	1051746	159113.26		13C5-PFHxA - ISTD	5.109	170529	120.0989	ng/ml			
341.0 -> 217.0			124687.61	89.6								
6:2FTS	6.114	165506	92298.97		13C2-6:2FTS - ISTD	6.114	30397	9.5772	ng/ml			
427.0 -> 80.9			16550.09	36.5								
7:3FTCA	6.674	1296230	11163.67		13C5-PFHxA - ISTD	5.109	170529	118.1912	ng/ml			
441.0 -> 317.0			5795.20	93.1								
8:2FTS	7.031	105460	648615.03		13C2-8:2FTS - ISTD	7.039	31048	9.4604	ng/ml			
527.0 -> 81.0			11486.50	56.1								
9Cl-PF3ONS	7.835	1025198	78505.56		13C3-HFPODA - ISTD	5.367	192377	9.3884	ng/ml			
533.0 -> 353.0			5450.97	27.1								
ADONA	5.995	1211509	105229.42		13C3-HFPODA - ISTD	5.367	192377	8.3839	ng/ml			
377.0 -> 85.1			78214.29	39.9								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA	5.376	148051	29217.17		13C3-HFPODA - ISTD	5.367	192377	9.0141	ng/ml			
285.0 -> 184.9			8793.59	48.3								
NEtFOSA	10.373	33992	24815.45		D5-NEtFOSA - ISTD	10.362	26081	2.4622	ng/ml			
526.0 -> 219.0			22134.72	96.6								
NEtFOSAA	7.461	46356	7908.23		D5-NEtFOSAA - ISTD	7.453	97463	2.2495	ng/ml	✔	3	AMS 05/29/24
584.0 -> 526.0			809.58	65.1								
NEtFOSE	10.253	307646	120065.40		D9-NEtFOSE - ISTD	10.227	262793	25.4920	ng/ml			
NFDHA	5.023	23036	9477.86		13C5-PFHxA - ISTD	5.109	170529	4.8221	ng/ml			
295.0 -> 85.0			2649.89	31.4								
NMeFOSA	10.044	29226	41905.56		D3-NMeFOSA - ISTD	10.043	25042	2.4866	ng/ml			
512.0 -> 219.0			30548.77	90.4								
NMeFOSAA	7.266	33886	4846.70		D3-NMeFOSAA - ISTD	7.266	190065	2.4445	ng/ml	✔	3	AMS 05/29/24
570.0 -> 418.9			5304.86	58.6								
NMeFOSE	9.907	281611	108619.40		D7-NMeFOSE - ISTD	9.890	251151	25.0309	ng/ml			
PFBA	2.628	258354	15922.84		13C4-PFBA - ISTD	2.623	294626	9.6835	ng/ml	✔	3	AMS 05/29/24
PFBS	5.121	74382	5657.78		13C3-PFBS - ISTD	5.120	73975	2.1286	ng/ml			
298.9 -> 98.8			3284.88	41.4								
PFDA	7.254	171616	6436.18		13C6-PFDA - ISTD	7.253	88671	2.4707	ng/ml			
513.0 -> 219.0			20976.18	21.1								
PFDoA	8.137	172622	9412.01		13C2-PFDoA - ISTD	8.136	86087	2.4972	ng/ml			
613.0 -> 319.0			6739.62	16.7								
PFDoS	9.189	26632	20197.67		13C8-PFOS - ISTD	7.484	44610	2.4464	ng/ml			
698.9 -> 99.0			7407.51	66.6								
PFDS	8.395	36147	12037.38		13C8-PFOS - ISTD	7.484	44610	2.3163	ng/ml			
599.0 -> 98.8			10374.13	61.7								
PFEESA	5.511	450543	60543.27		13C5-PFHxA - ISTD	5.109	170529	4.5052	ng/ml			
315.0 -> 83.0			4153.33	7.1								
PFHpA	5.789	226870	10288.58		13C4-PFHpA - ISTD	5.789	228396	2.3990	ng/ml			
362.9 -> 169.0			13374.67	15.6								
PFHpS	7.011	49952	6292.59		13C8-PFOS - ISTD	7.484	44610	2.3302	ng/ml			
449.0 -> 98.8			8322.83	52.3								

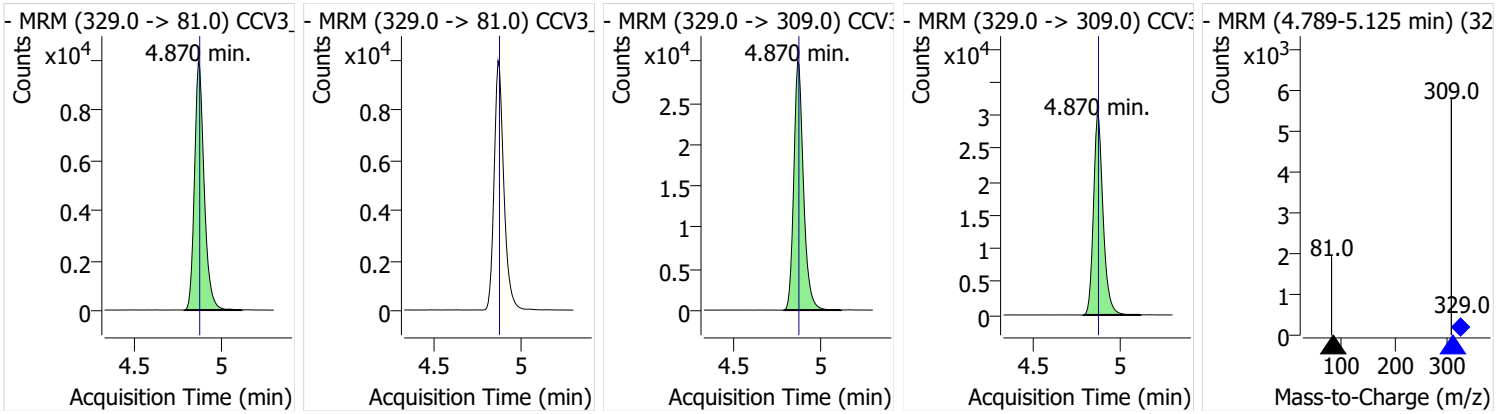
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFHxA	5.111	163194	5791.37		13C5-PFHxA - ISTD	5.109	170529	2.4422	ng/ml			
313.0 -> 118.9			739.62	3.1								
PFHxS	6.497	52955	2777.81		13C3-PFHxS - ISTD	6.496	51973	2.1363	ng/ml	✔	3	AMS 05/29/24
398.9 -> 99.0			6940.63	48.6								
PFMBA	4.530	148611	68316.40		13C5-PFPeA - ISTD	4.212	237522	4.7521	ng/ml			
PFMPA	3.382	17199	7655.40		13C5-PFPeA - ISTD	4.212	237522	5.1953	ng/ml	✔	3	AMS 05/29/24
PFNA	6.804	189133	6848.74		13C9-PFNA - ISTD	6.804	98792	2.4301	ng/ml			
463.0 -> 219.0			18199.35	23.0								
PFNS	7.951	44906	14830.67		13C8-PFOS - ISTD	7.484	44610	2.3372	ng/ml			
549.0 -> 98.8			10548.42	56.3								
PFOA	6.329	225394	1273.81		13C8-PFOA - ISTD	6.328	207561	2.3649	ng/ml			
413.0 -> 169.0			8969.24	22.4								
PFOS	7.485	46513	1556.77		13C8-PFOS - ISTD	7.484	44610	2.1505	ng/ml	✔	3	AMS 05/29/24
499.0 -> 99.0			2834.13	49.7								
PFOSA	8.702	86949	711483.94		13C8-PFOSA - ISTD	8.709	83230	2.4251	ng/ml			
497.9 -> 478.0			14564.42	2.4								
PFPeA	4.214	228395	11680.02		13C5-PFPeA - ISTD	4.212	237522	4.8803	ng/ml			
263.0 -> 69.0			356.72	0.3								
PFPeS	5.898	63577	6670.33		13C3-PFHxS - ISTD	6.496	51973	2.2581	ng/ml			
349.0 -> 98.9			6220.45	49.9								
PFTeDA	8.951	224673	16195.66		13C2-PFTeDA - ISTD	8.950	117200	2.4759	ng/ml			
713.0 -> 168.9			12316.84	7.6								
PFTrDA	8.557	175272	17502.39		13C2-PFDoA - ISTD	8.136	86087	2.4489	ng/ml			
663.0 -> 168.9			109384.29	15.0								
PFUnA	7.693	158156	5070.42		13C7-PFUnA - ISTD	7.701	84184	2.4231	ng/ml			
563.0 -> 269.1			10384.47	24.2								
TDCA	5.499	6	3.07					-	ng/ml			
499.0 -> 99.0			7.19	*113.0								
13C2-8:2FTS	7.038	66092	561477.32		18O2-PFHxS	6.495	48252	5.0155	ng/ml			
529.0 -> 81.0			9612.11	47.0								
13C2-4:2FTS	4.870	118599	15396.01		18O2-PFHxS	6.495	48252	4.8280	ng/ml			
329.0 -> 81.0			6371.82	32.9								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
13C2-6:2FTS	6.113	108765	20462.71		18O2-PFHxS	6.495	48252	4.9814	ng/ml			
429.0 -> 81.0			6140.73	27.9								
13C5-PFHxA	5.109	170529	42533.69		13C2-PFHxA	5.110	156026	2.5795	ng/ml			
318.0 -> 120.0			175.09	1.6								
13C6-PFDA	7.253	88671	11679.43		13C2-PFDA	7.253	86360	1.2894	ng/ml			
13C7-PFUnA	7.701	84184	15067.46		13C2-PFDA	7.253	86360	1.3094	ng/ml			
13C8-PFOA	6.328	207561	34967.02		13C4-PFOA	6.329	24089	2.6334	ng/ml			
13C8-PFOS	7.484	44610	5728.87		13C4-PFOS	7.484	47374	2.5388	ng/ml			
507.0 -> 99.0			2559.37	55.2								
13C8-PFOSA	8.709	83230	113007.01		13C4-PFOS	7.484	47374	2.6213	ng/ml			
13C9-PFNA	6.804	98792	18882.47		13C5-PFNA	6.804	125248	1.2819	ng/ml			
13C5-PFPeA	4.212	237522	16024.59		13C2-PFHxA	5.110	156026	4.8453	ng/ml			
13C2-PFDoA	8.136	86087	9055.74		13C2-PFDA	7.253	86360	1.2973	ng/ml			
13C4-PFHpA	5.789	228396	27319.17		13C2-PFHxA	5.110	156026	2.6483	ng/ml			
13C4-PFBA	2.623	301369	82866.42		13C3-PFBA	2.625	128923	10.7006	ng/ml	✔	3	AMS 05/29/24
13C3-PFHxS	6.496	51973	11310.80		18O2-PFHxS	6.495	48252	2.6246	ng/ml			
402.0 -> 99.0			7266.95	52.1								
13C3-PFBS	5.120	73975	18345.29		18O2-PFHxS	6.495	48252	2.5816	ng/ml			
301.9 -> 98.9			6758.28	37.0								
13C3-HFPODA	5.367	192377	50594.34		13C2-PFHxA	5.110	156026	10.1468	ng/ml			
287.0 -> 185.0			10413.42	42.9								
13C2-PFTeDA	8.950	117200	898374.39		13C2-PFDA	7.253	86360	1.3098	ng/ml			
D9-NEtFOSE	10.227	262793	108908.43		13C4-PFOS	7.484	47374	25.5849	ng/ml			
D3-NMeFOSA	10.043	25042	15278.96		13C4-PFOS	7.484	47374	2.4143	ng/ml			
D3-NMeFOSAA	7.266	190065	24054.73		13C4-PFOS	7.484	47374	5.3985	ng/ml			
D5-NEtFOSA	10.362	26081	19158.64		13C4-PFOS	7.484	47374	2.4700	ng/ml			
D5-NEtFOSAA	7.453	97463	40407.39		13C4-PFOS	7.484	47374	5.5295	ng/ml			
D7-NMeFOSE	9.890	251151	117795.58		13C4-PFOS	7.484	47374	26.1650	ng/ml			

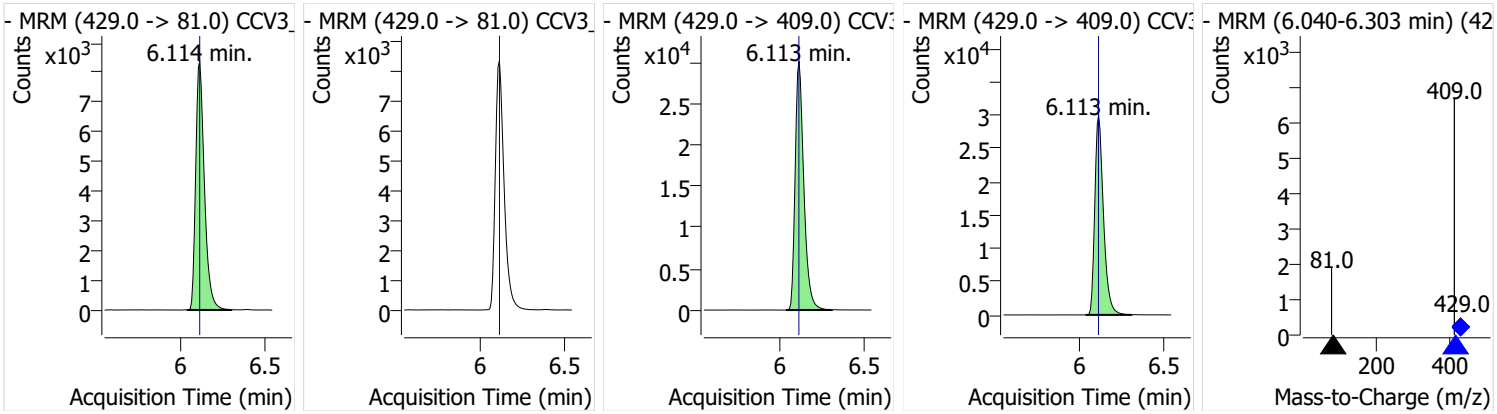
11Cl-PF3OUdS



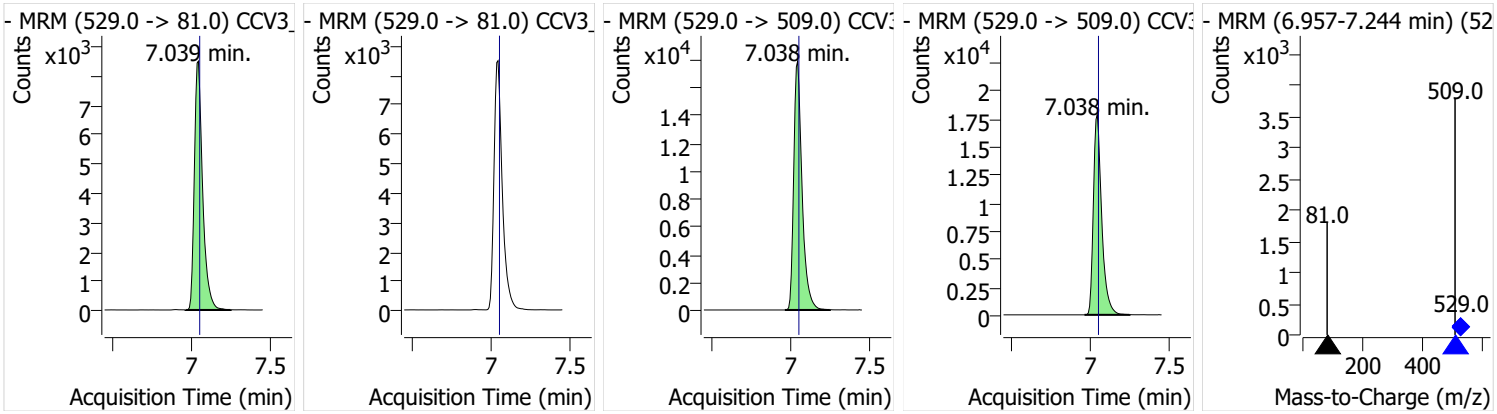
13C2-4:2FTS - ISTD



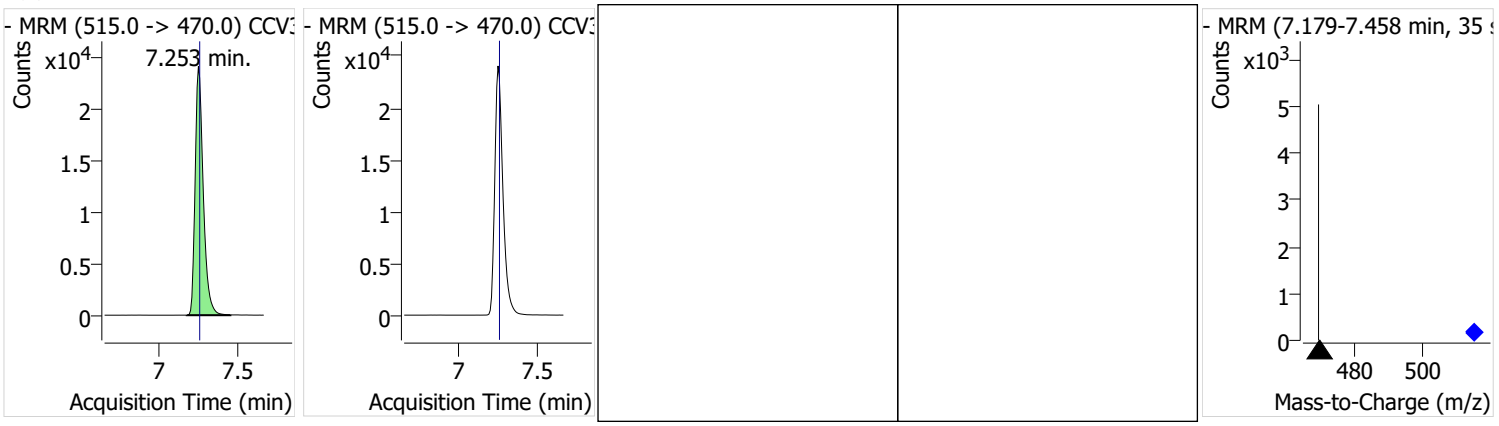
13C2-6:2FTS - ISTD



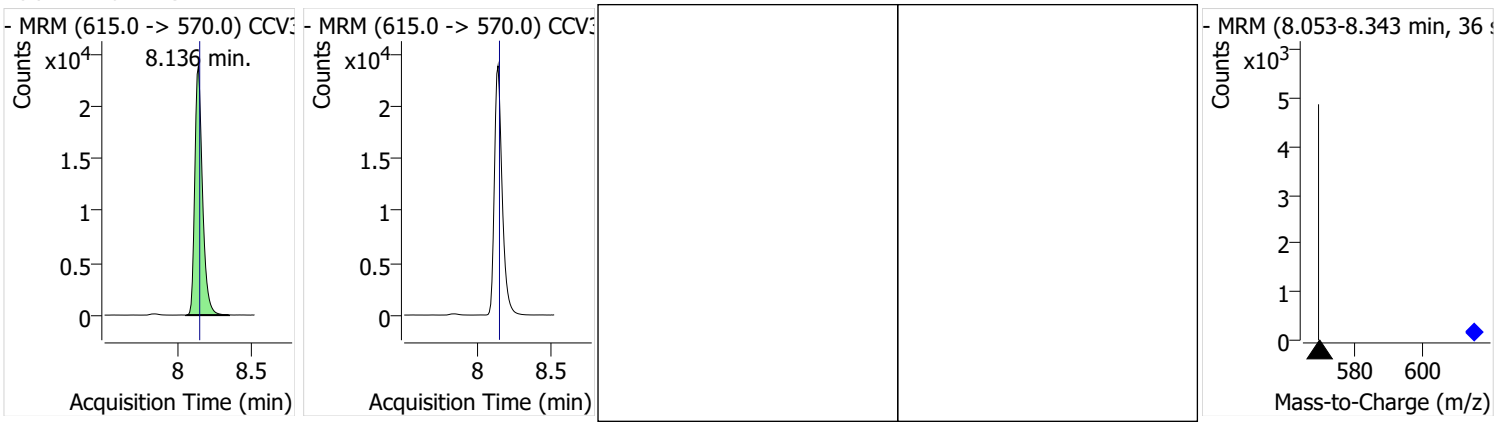
13C2-8:2FTS - ISTD



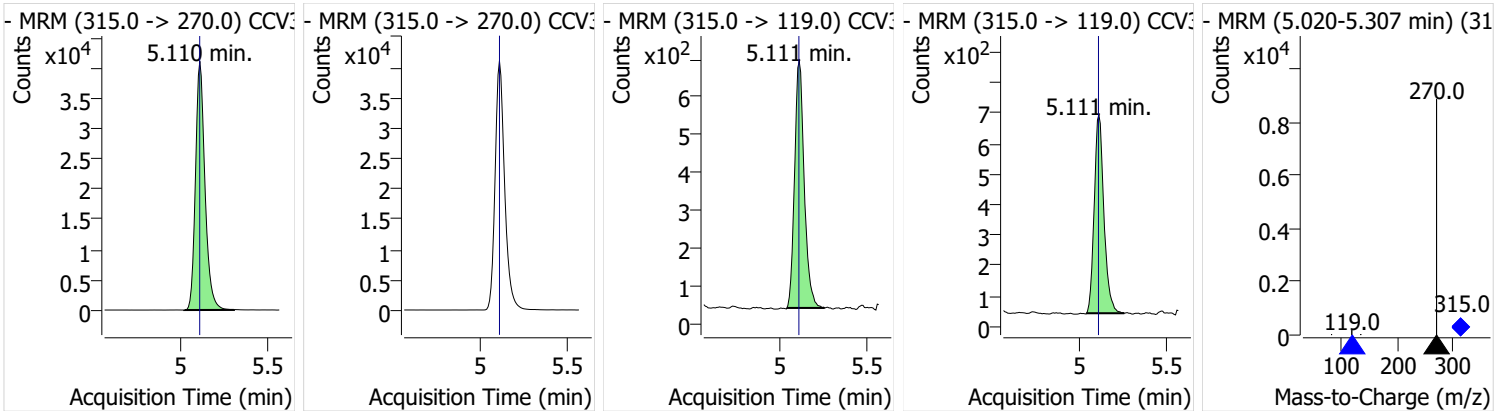
13C2-PFDA



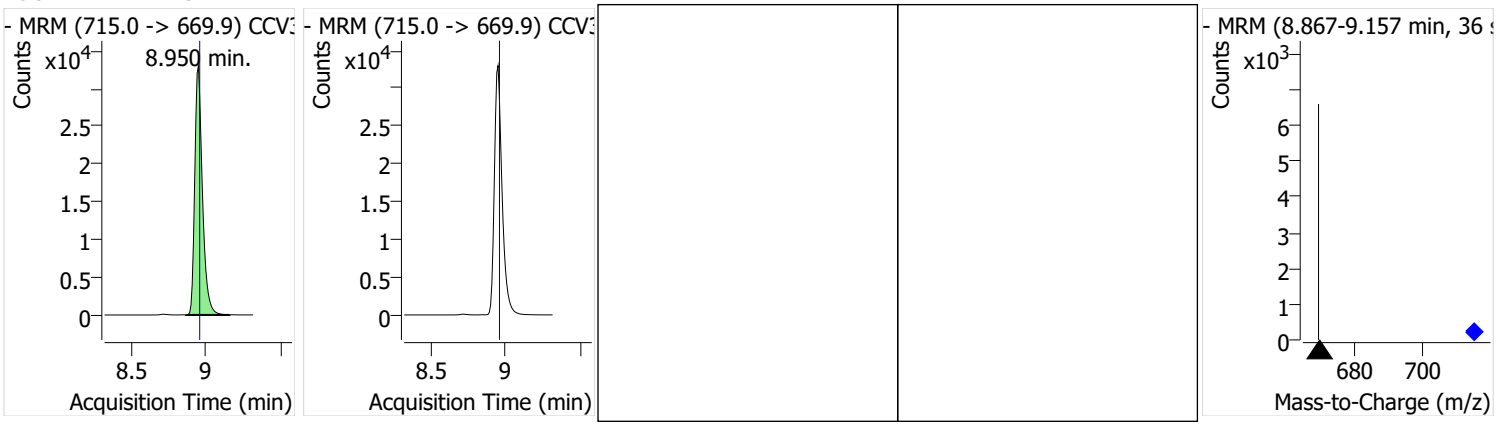
13C2-PFDoA - ISTD



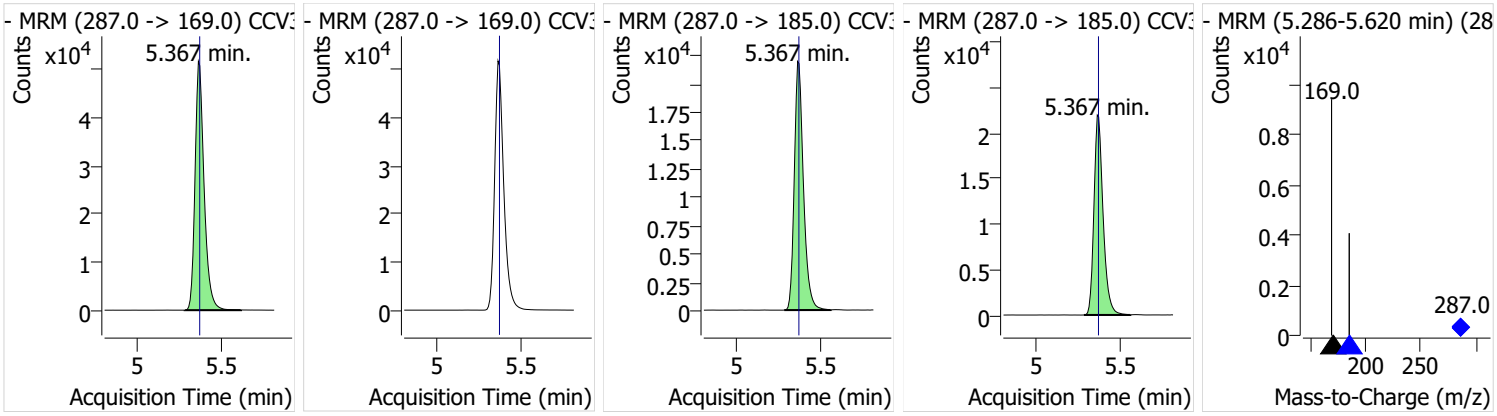
13C2-PFHxA



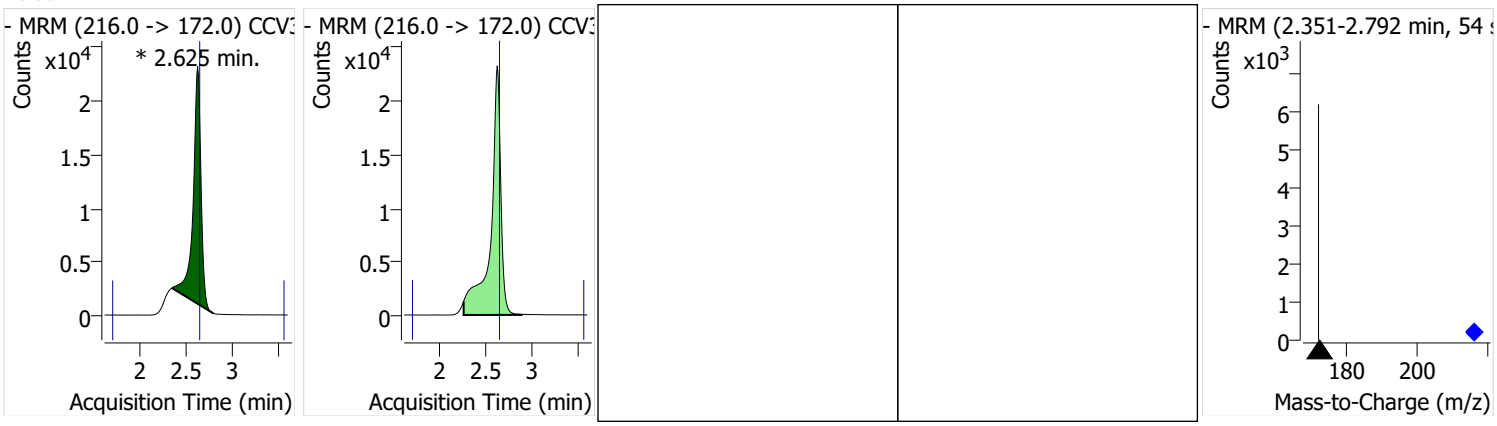
13C2-PFTeDA - ISTD



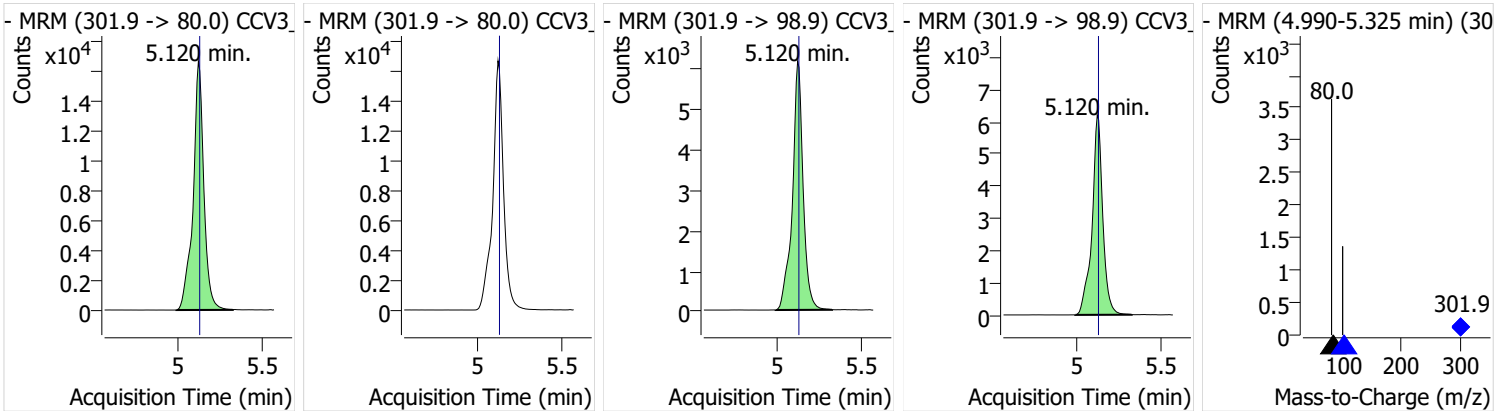
13C3-HFPODA - ISTD



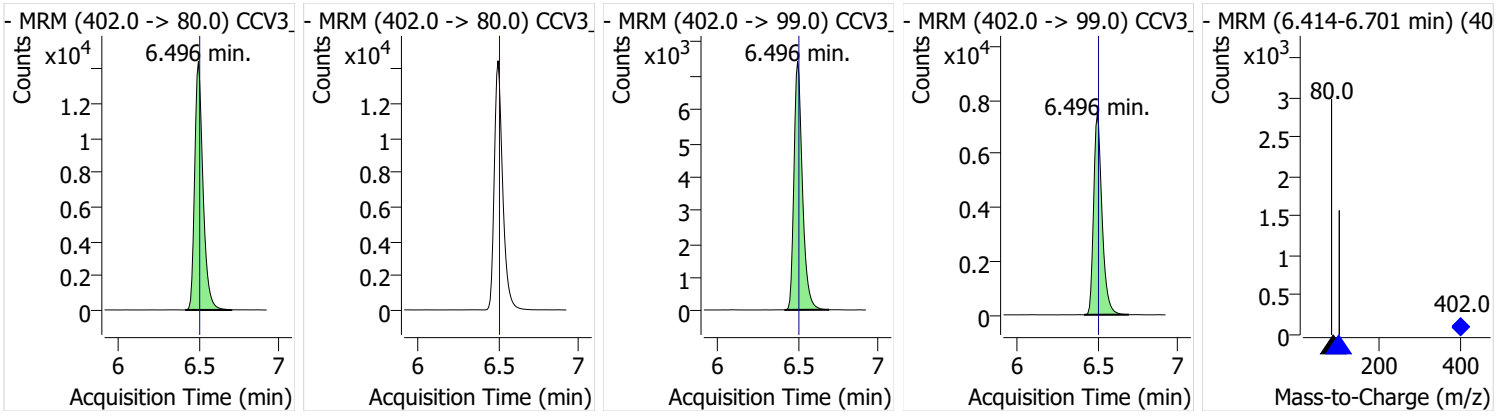
13C3-PFBA



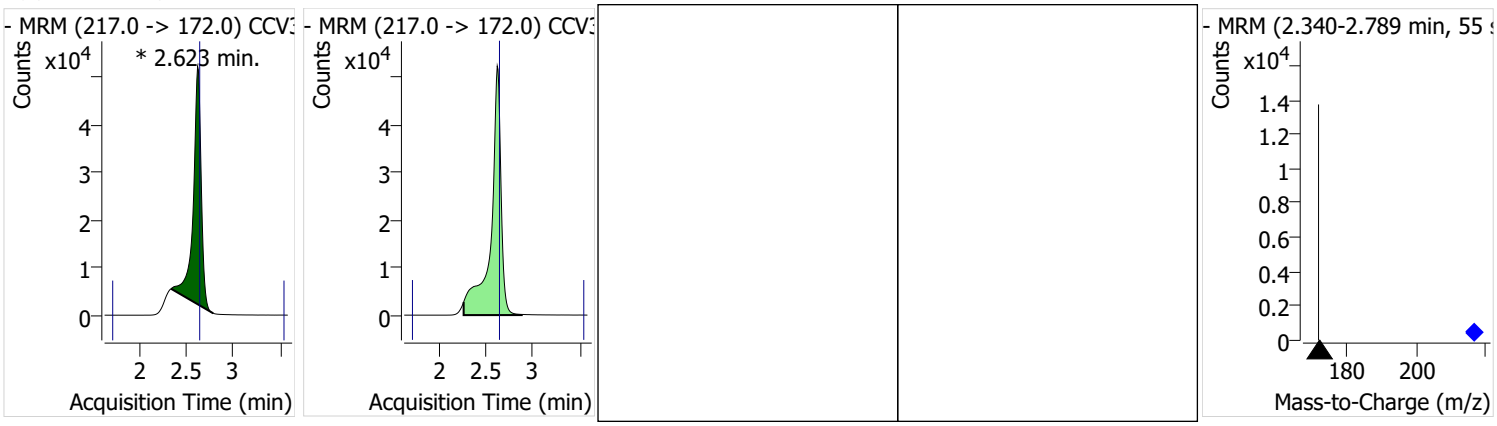
13C3-PFBS - ISTD



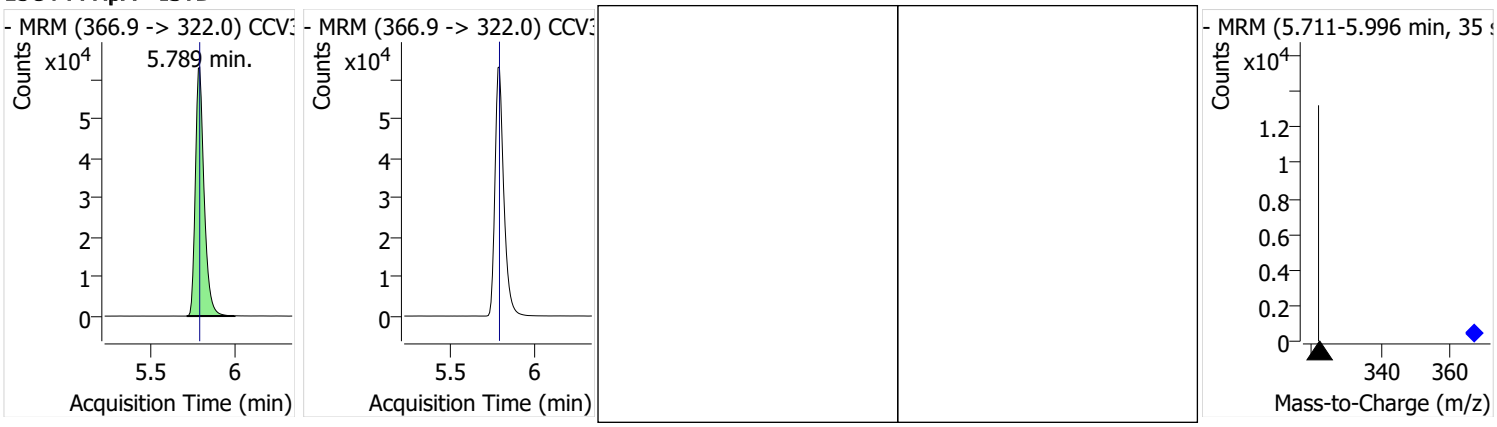
13C3-PFHxS - ISTD



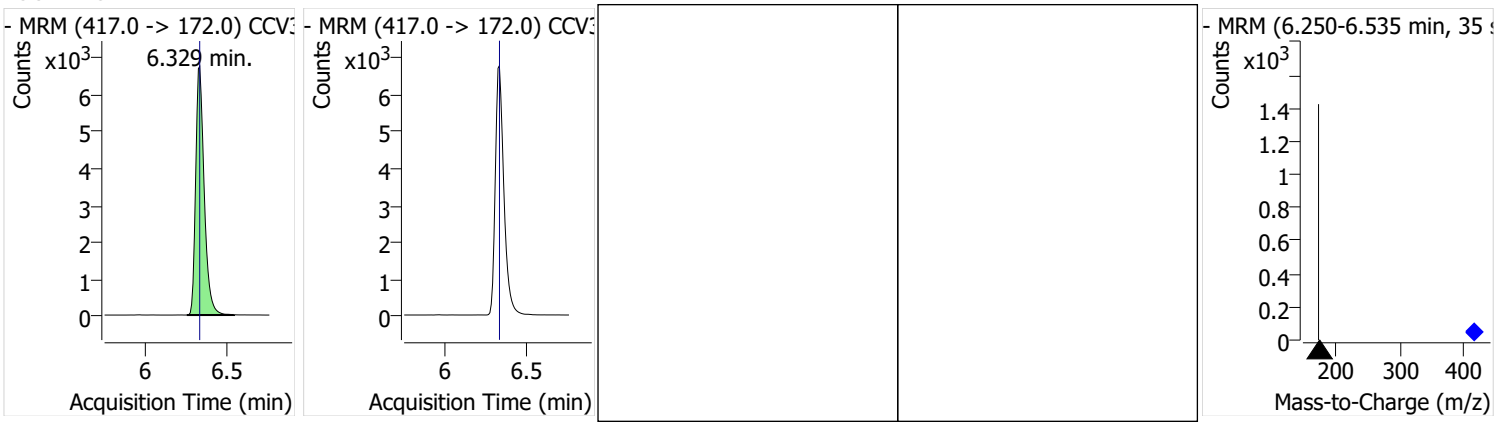
13C4-PFBA - ISTD



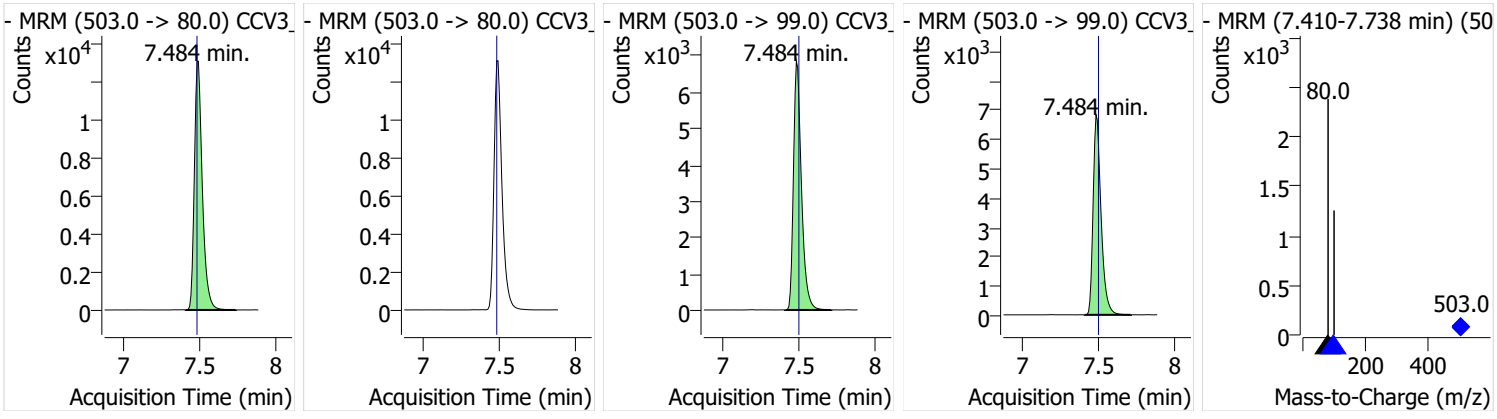
13C4-PFHpA - ISTD



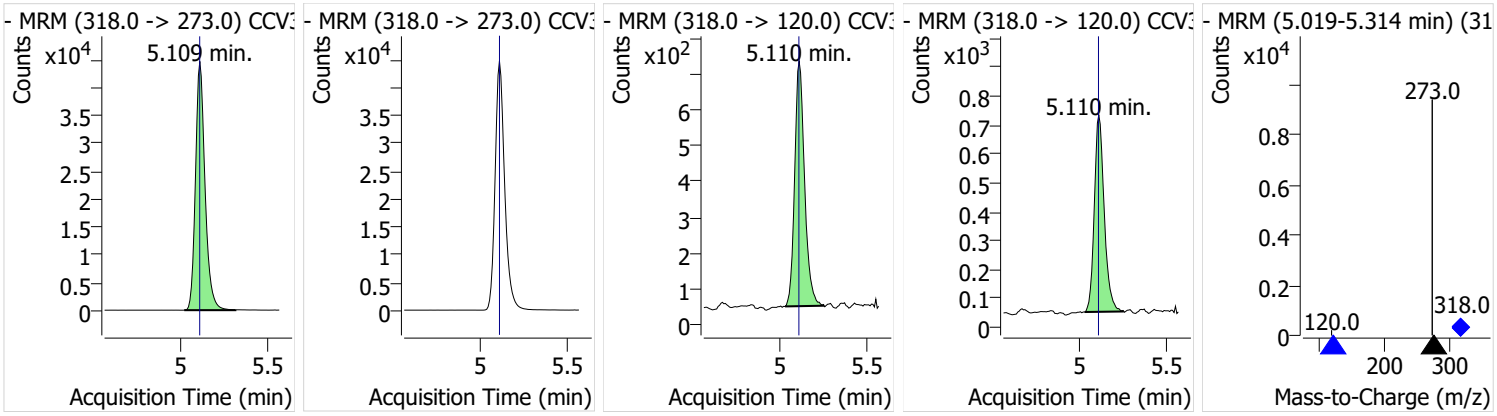
13C4-PFOA



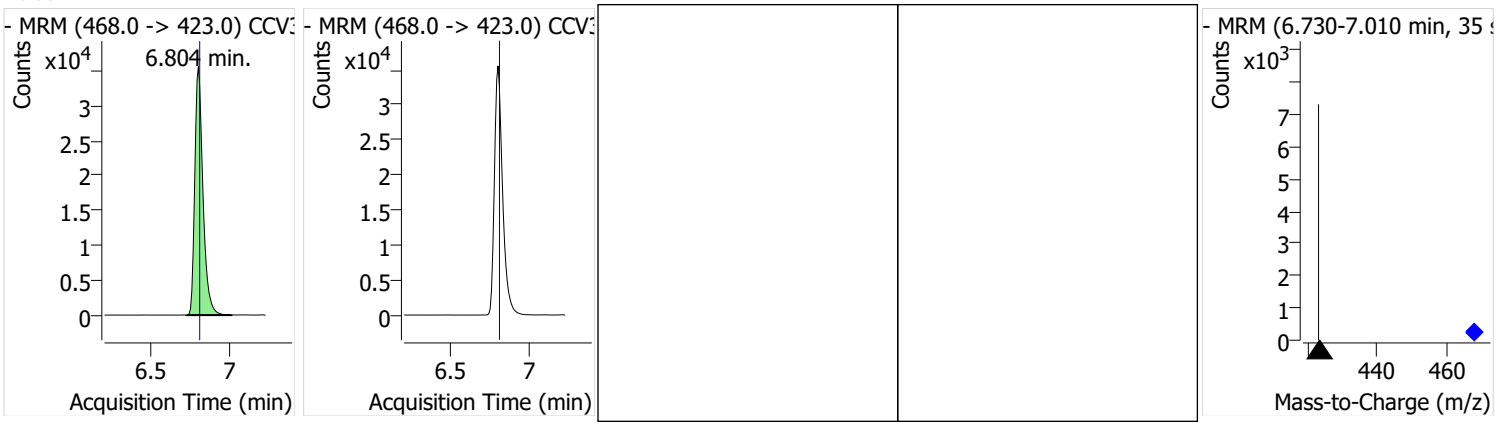
13C4-PFOS



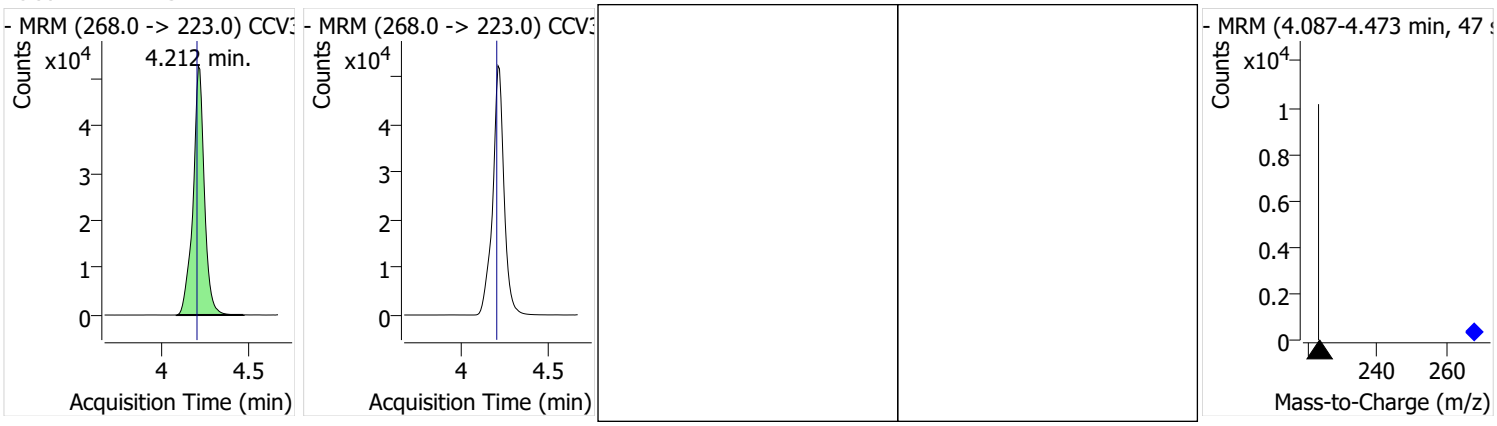
13C5-PFHxA - ISTD



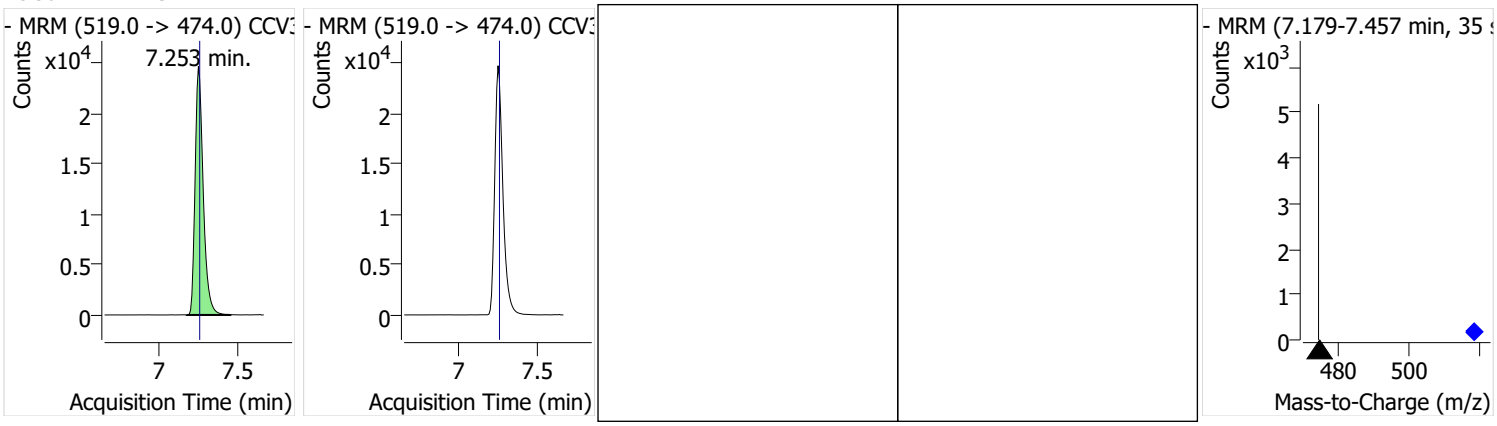
13C5-PFNA



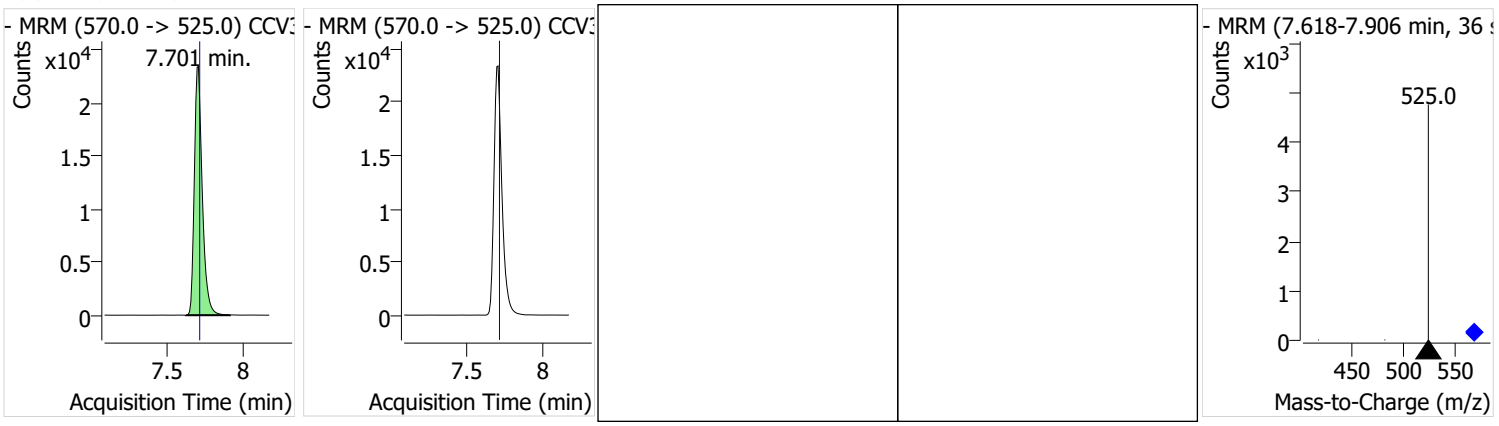
13C5-PFPeA - ISTD



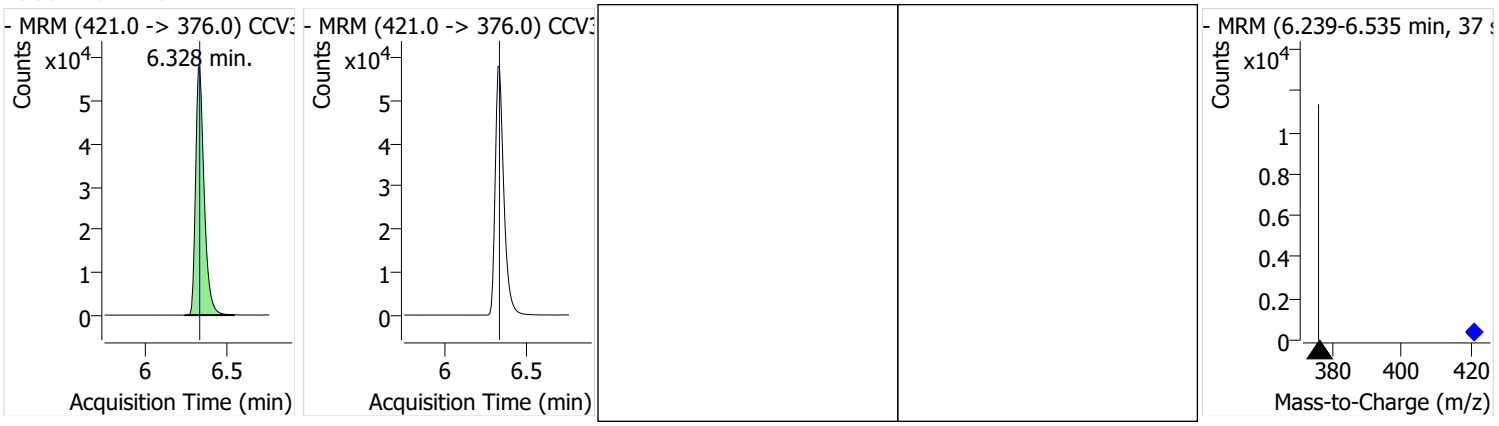
13C6-PFDA - ISTD



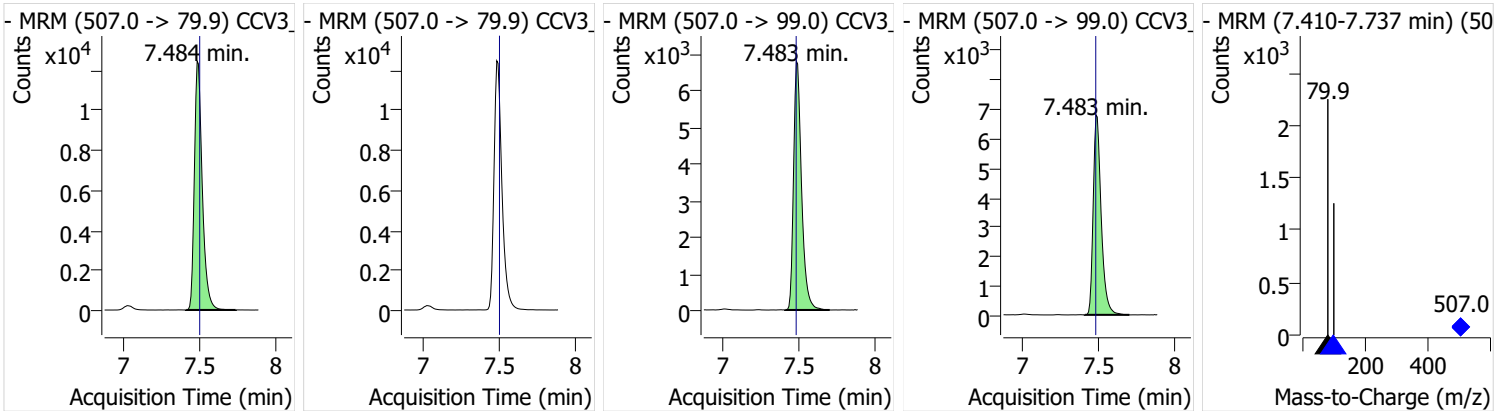
13C7-PFUnA - ISTD



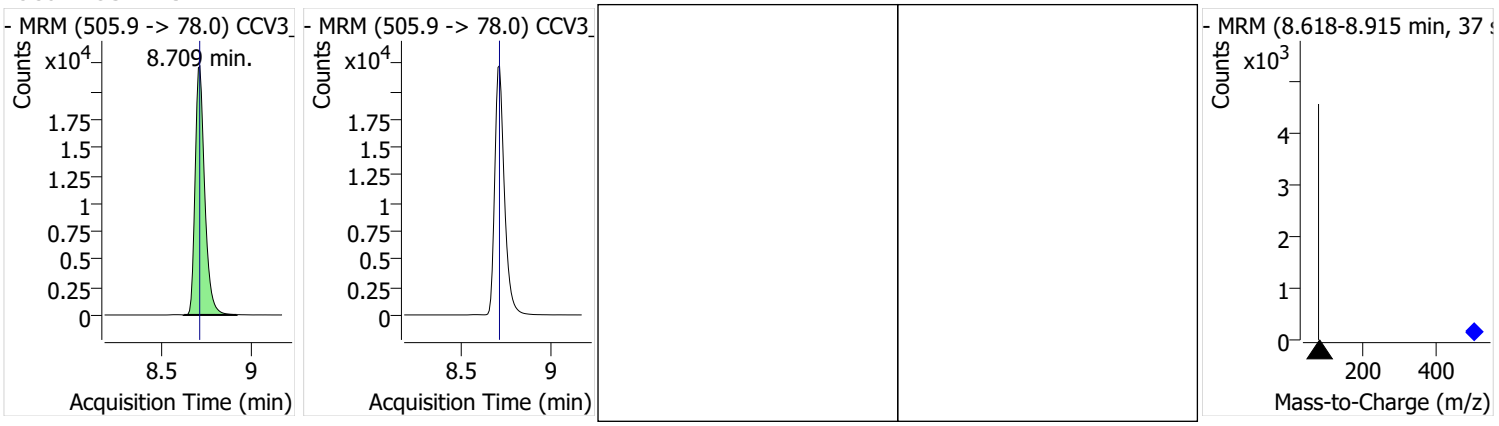
13C8-PFOA - ISTD



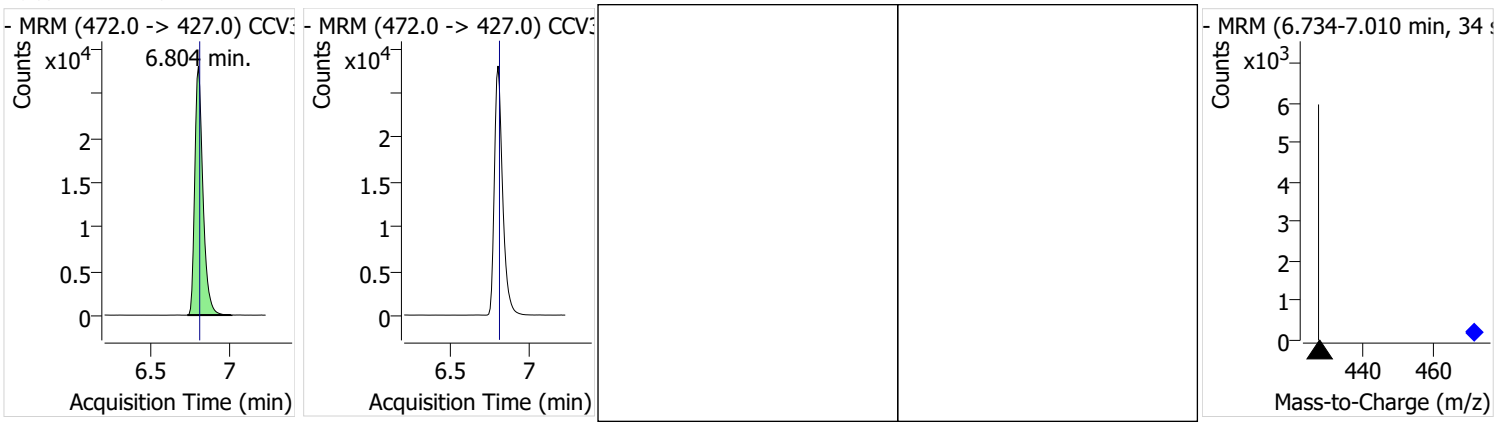
13C8-PFOS - ISTD



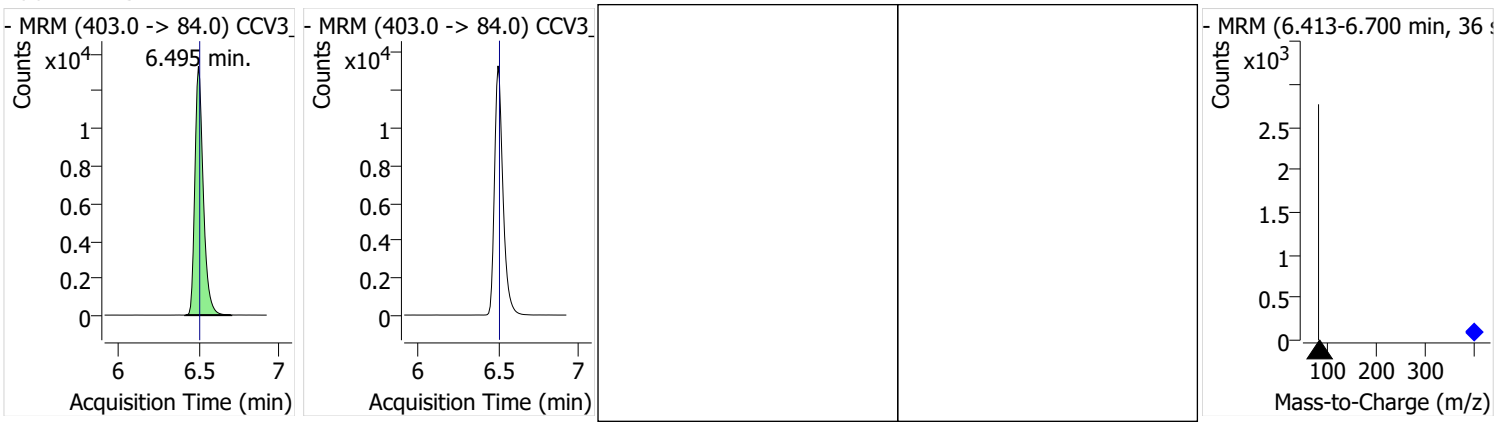
13C8-PFOSA - ISTD



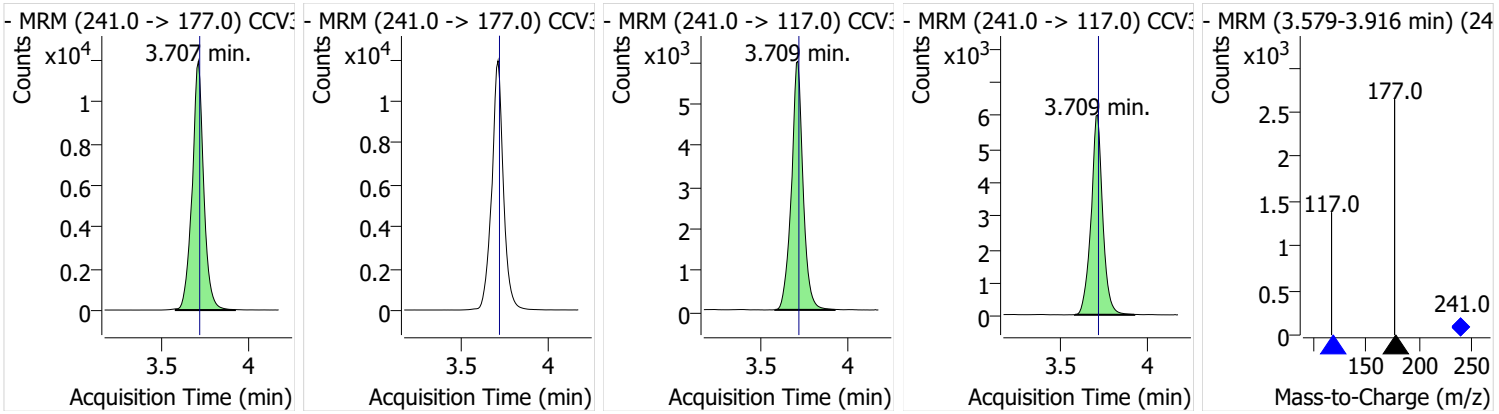
13C9-PFNA - ISTD



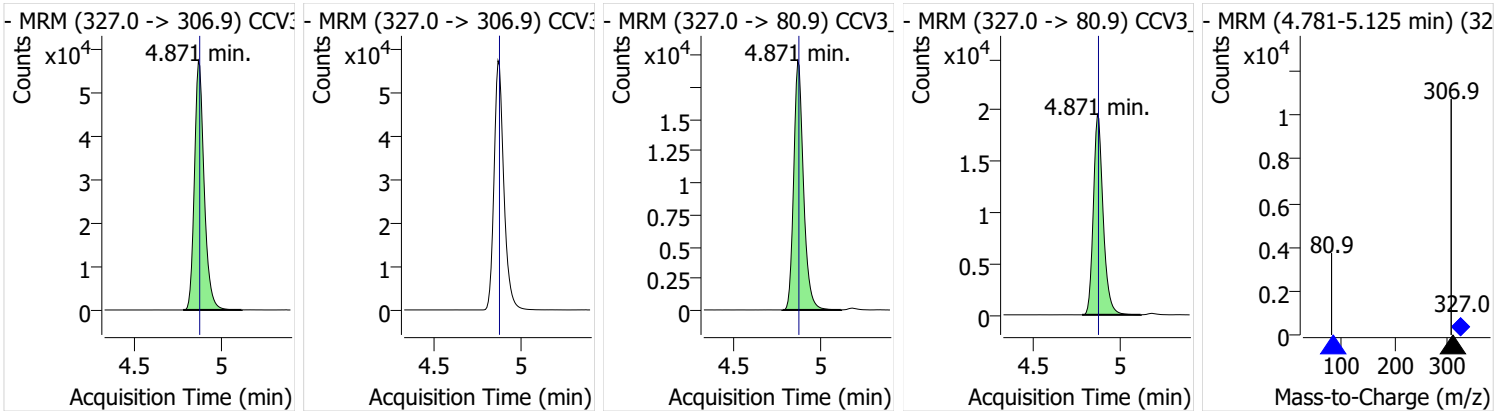
18O2-PFHxS



3:3FTCA



4:2FTS



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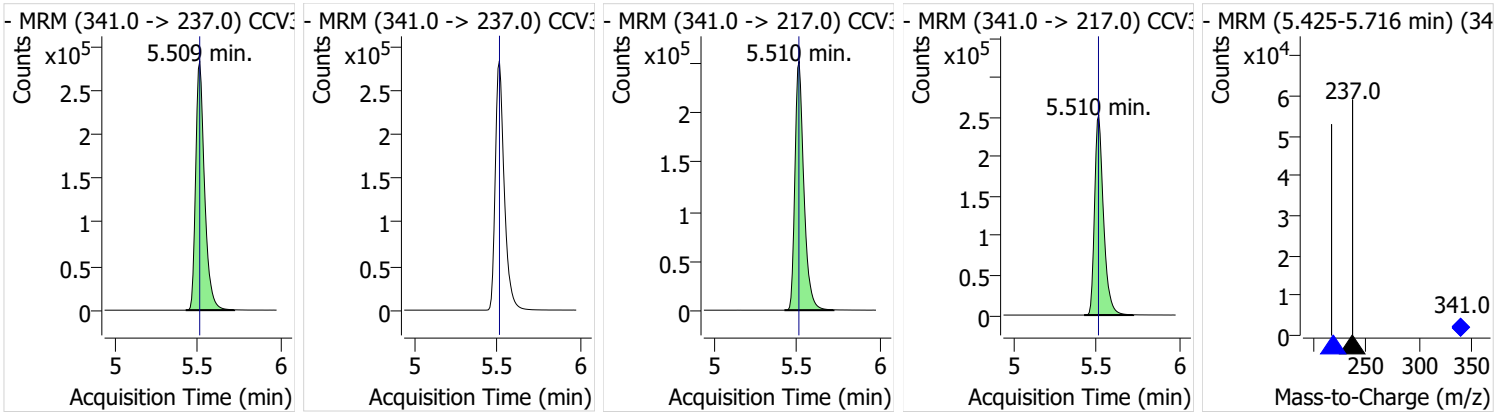
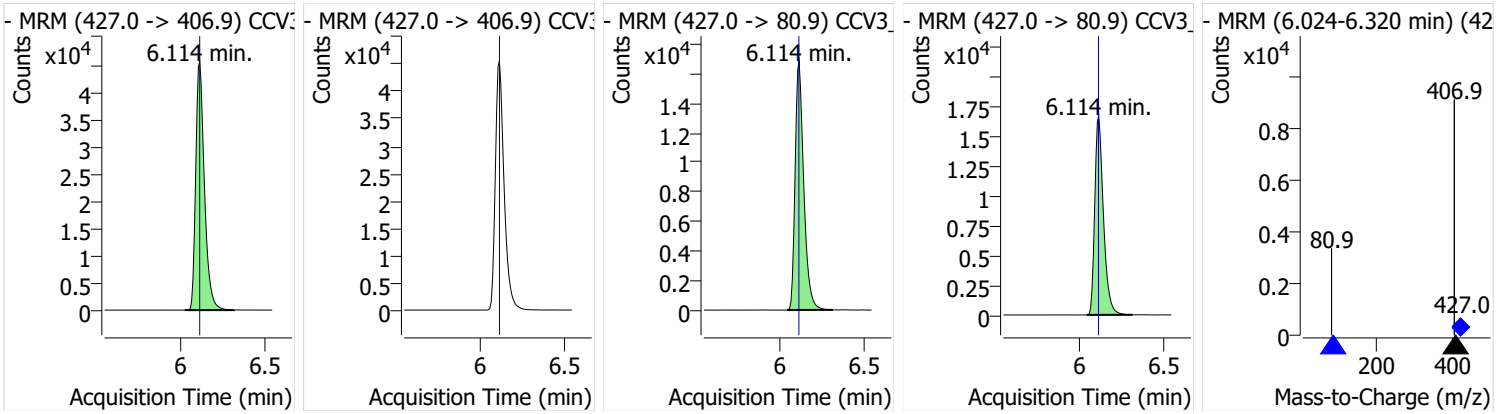
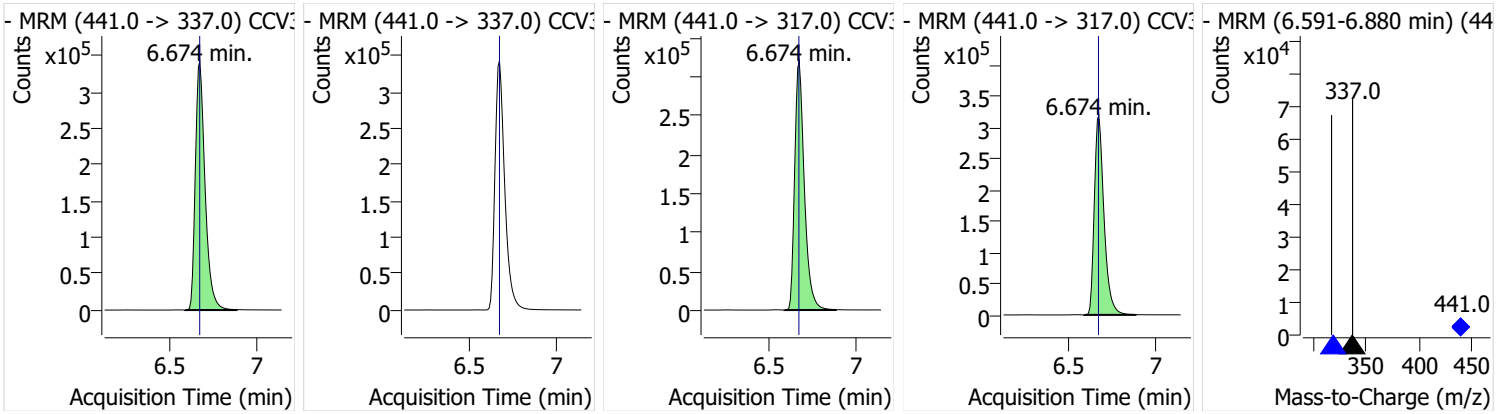


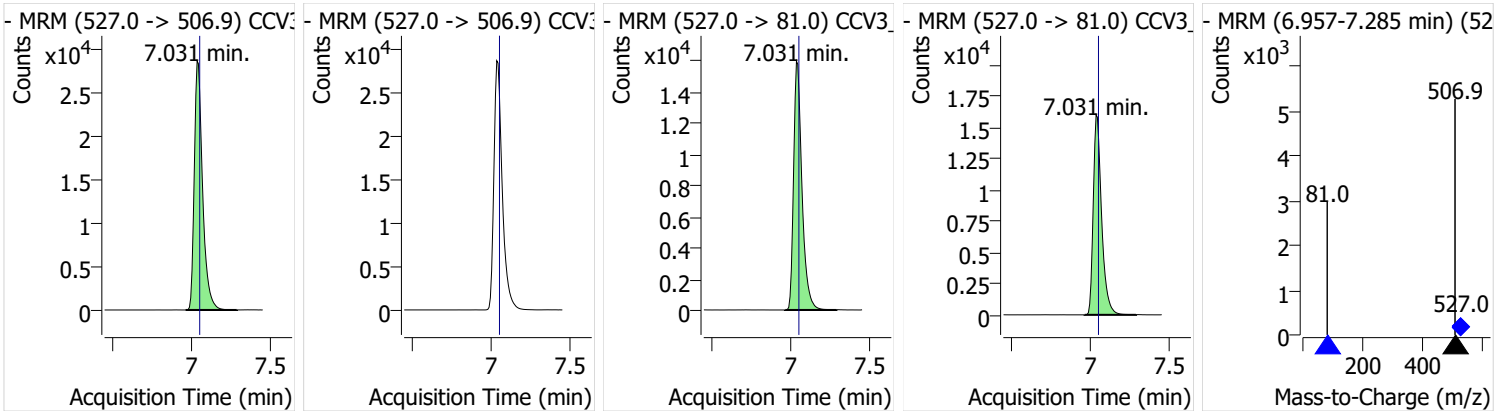
6:2FTS



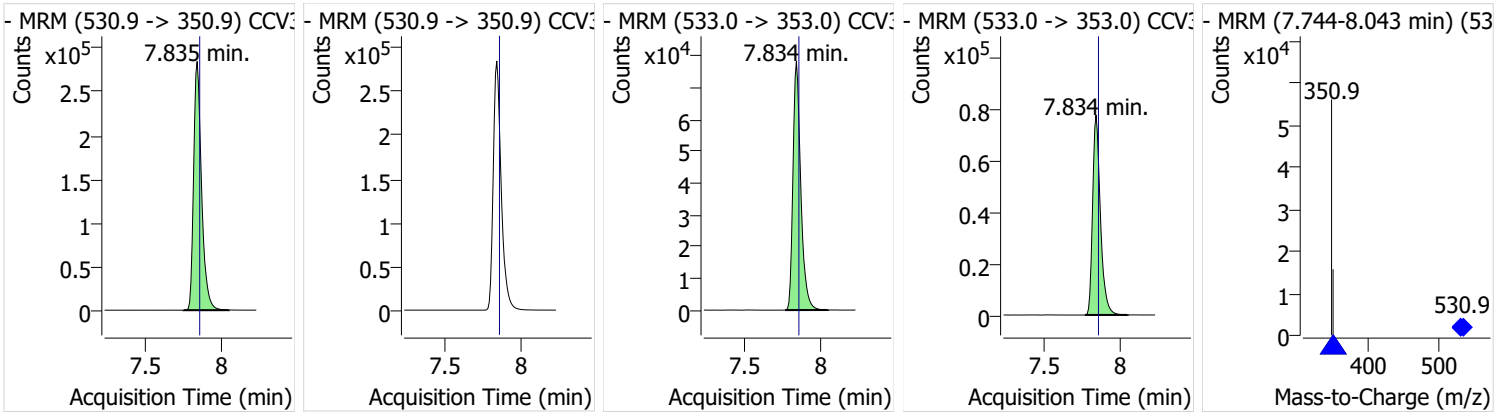
7:3FTCA



8:2FTS



9Cl-PF3ONS



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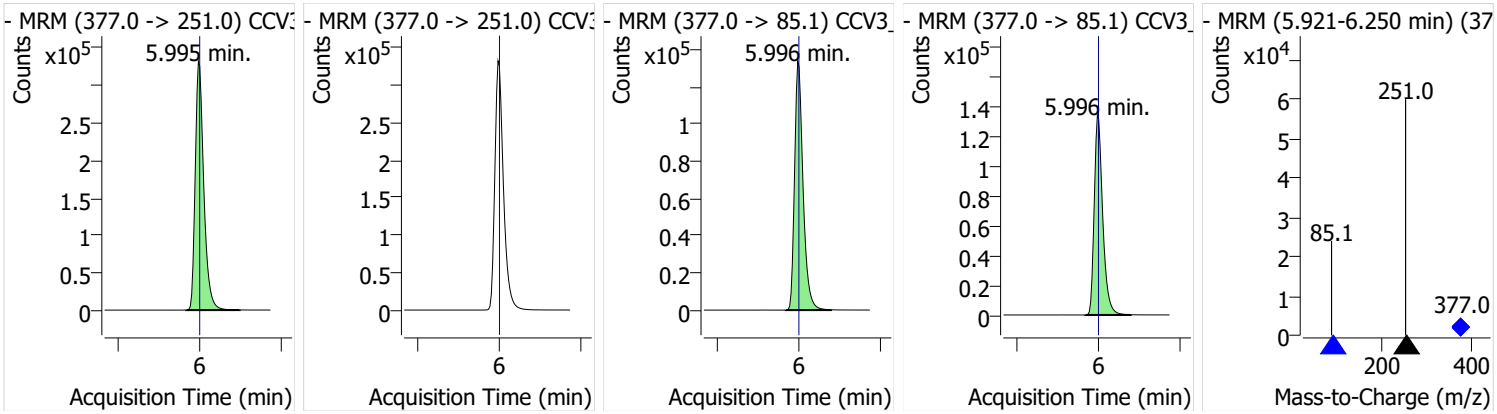
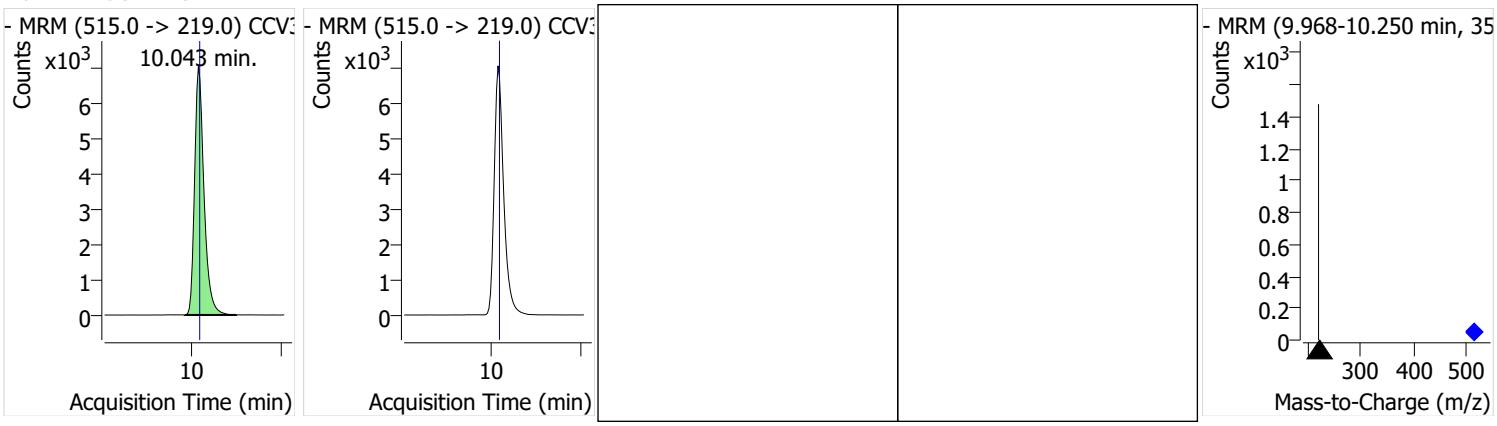
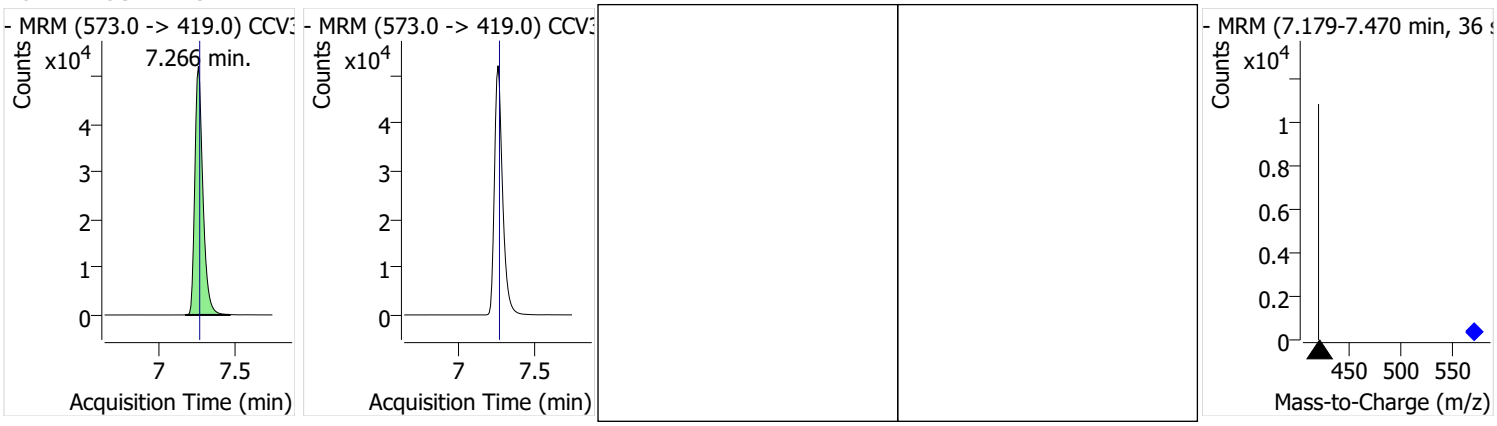


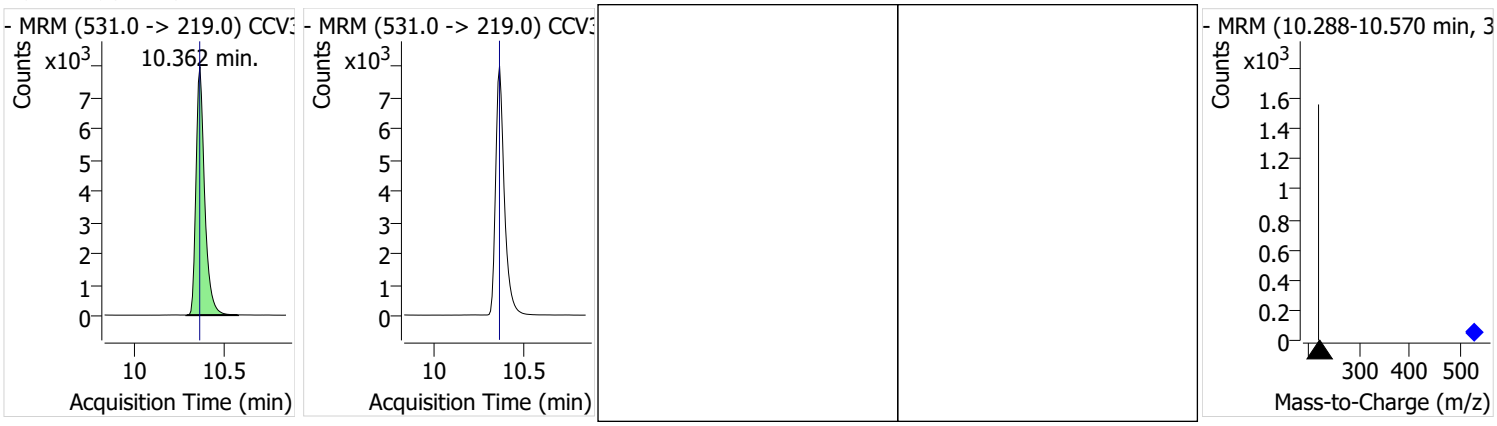
D3-NMeFOSA - ISTD



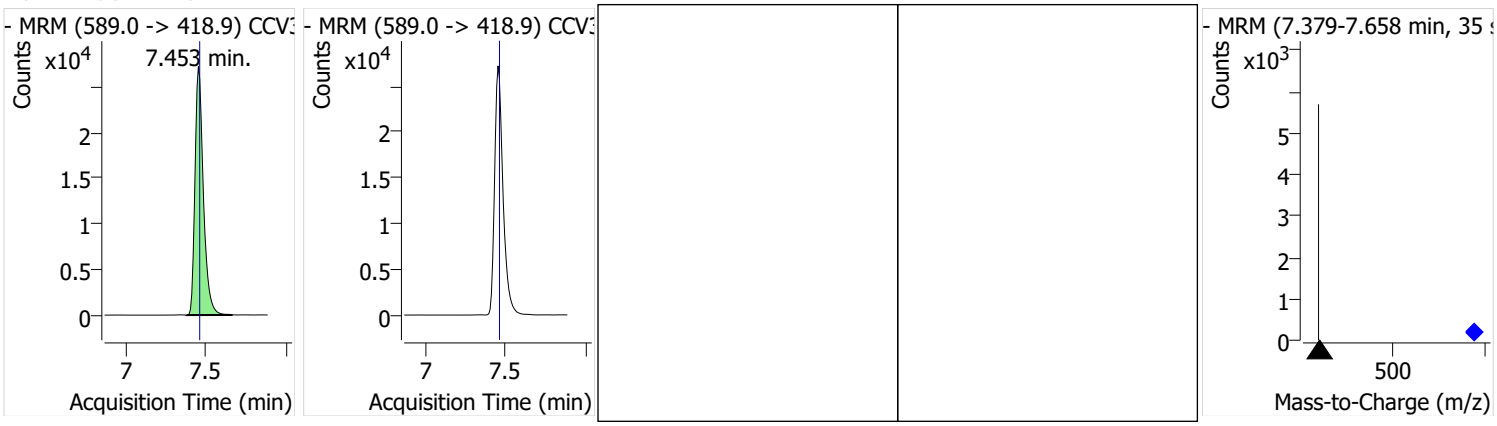
D3-NMeFOSAA - ISTD



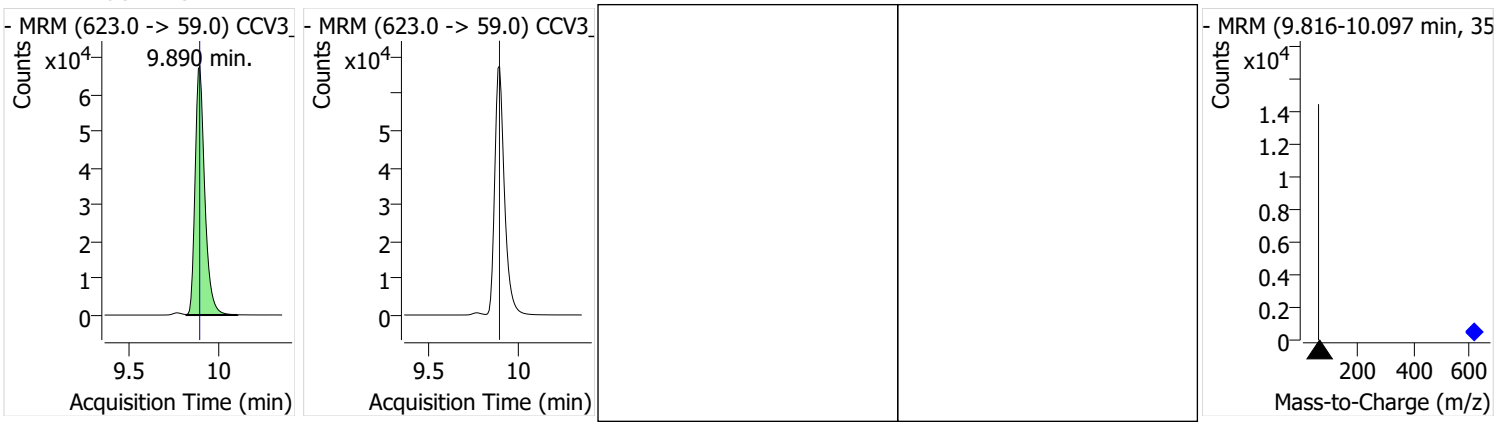
D5-NEtFOSA - ISTD



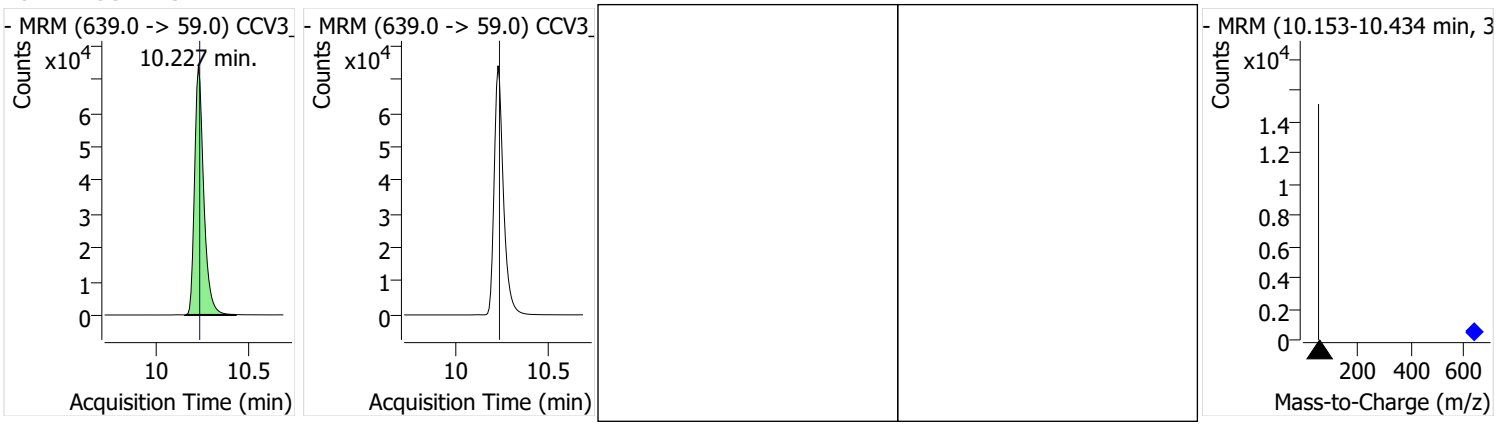
D5-NEtFOSAA - ISTD



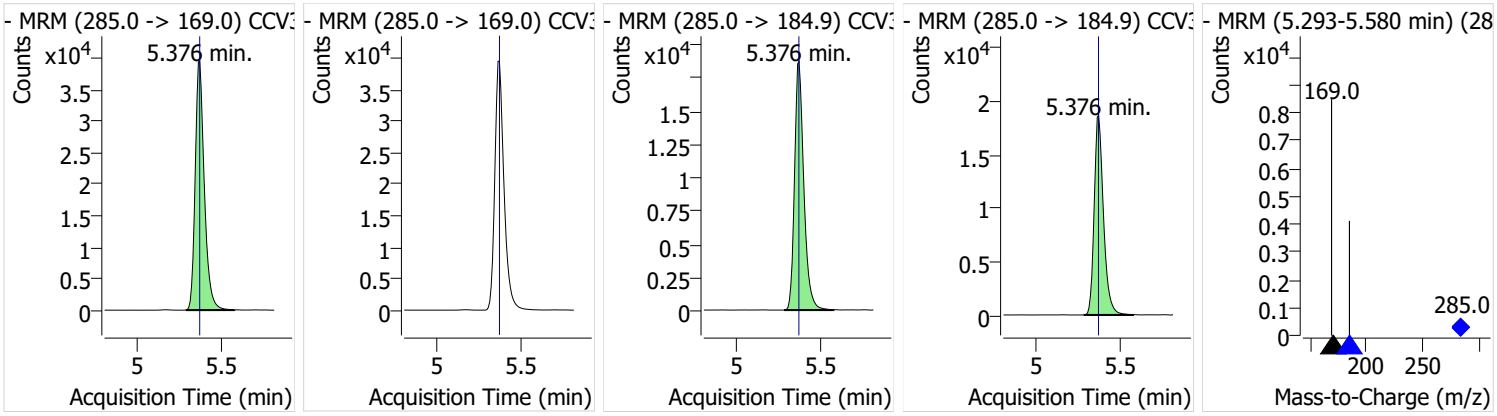
D7-NMeFOSE - ISTD



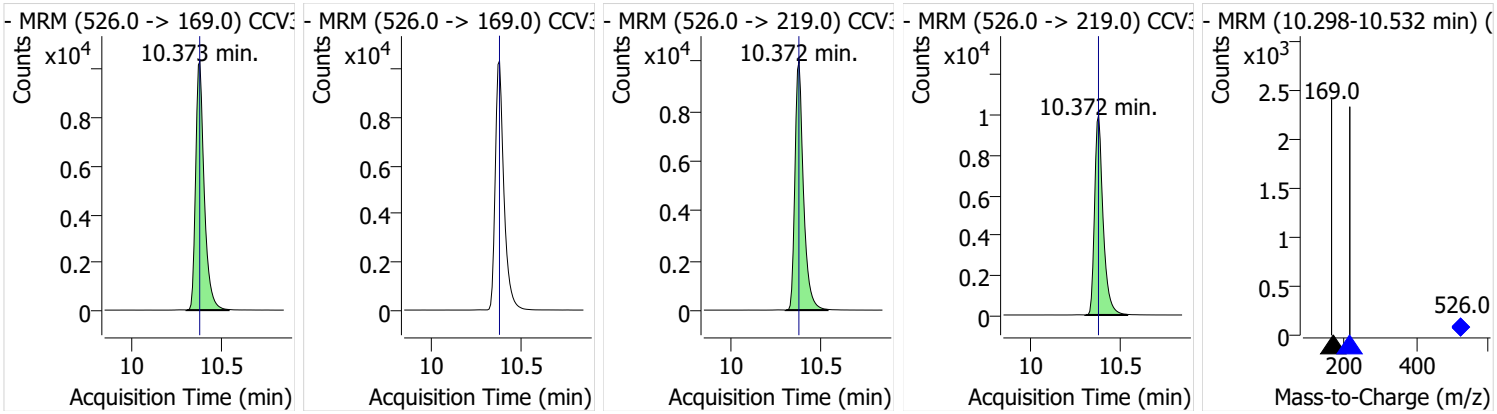
D9-NEtFOSE - ISTD



HFPO-DA



NEtFOSA



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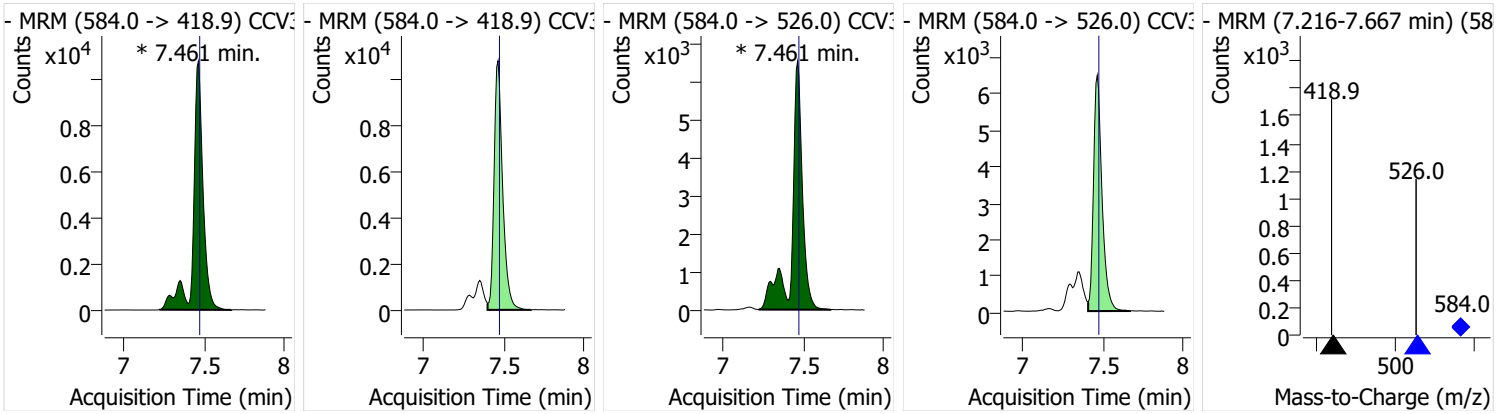

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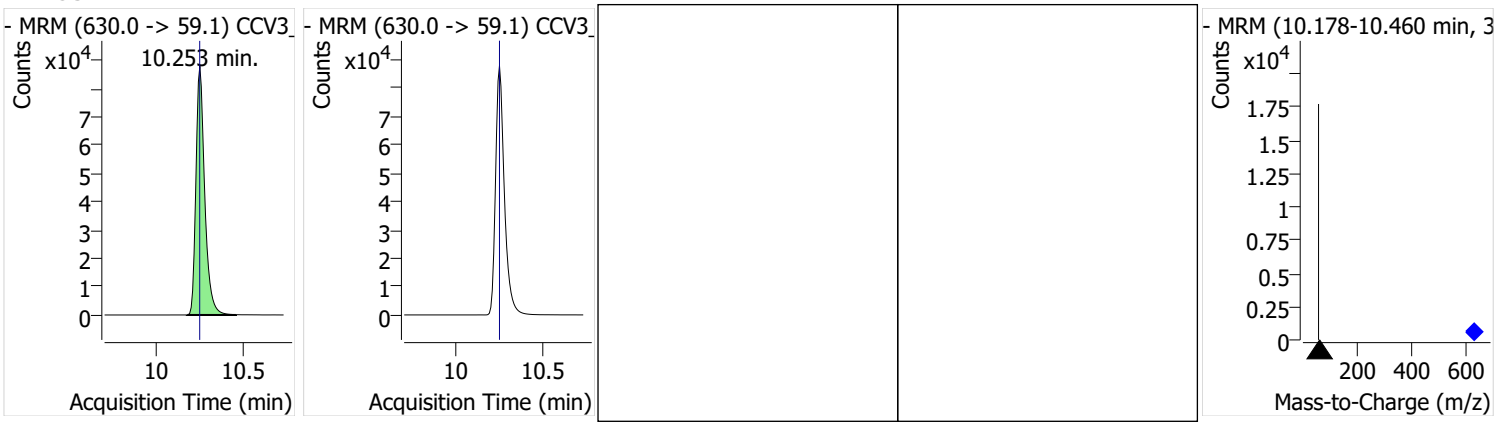
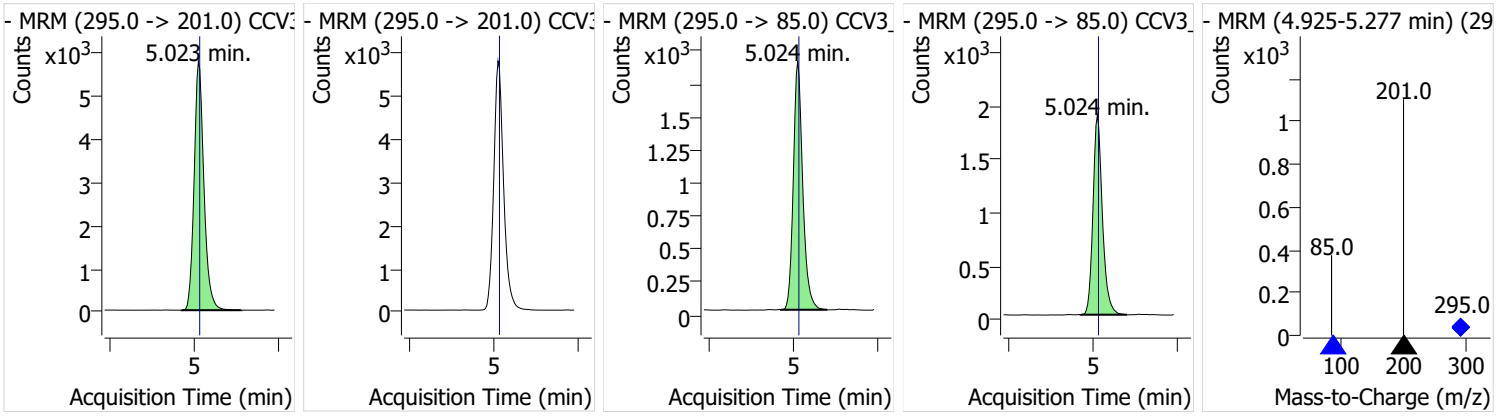
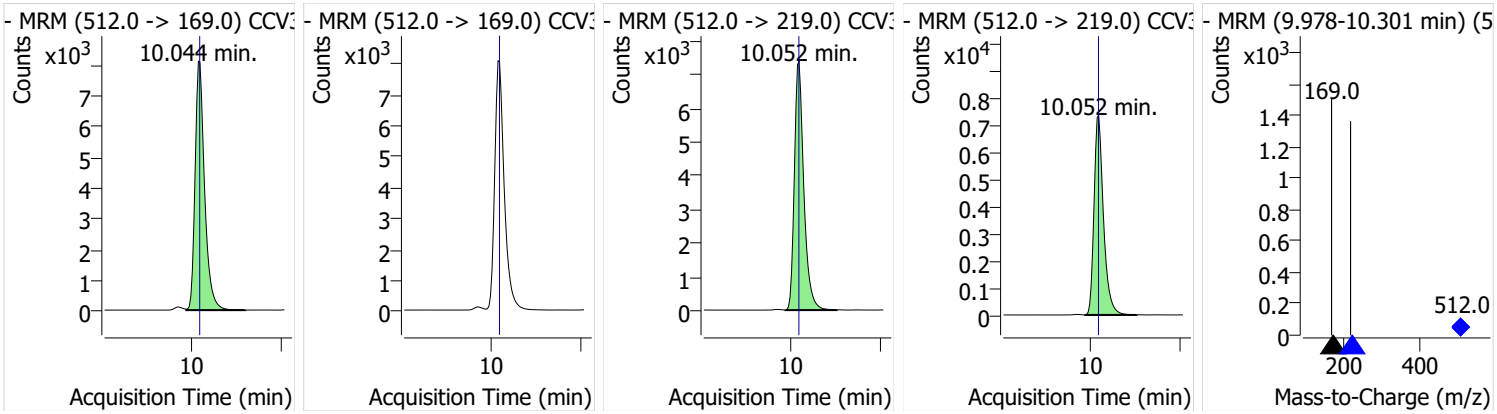


NFDHA



NMeFOSA



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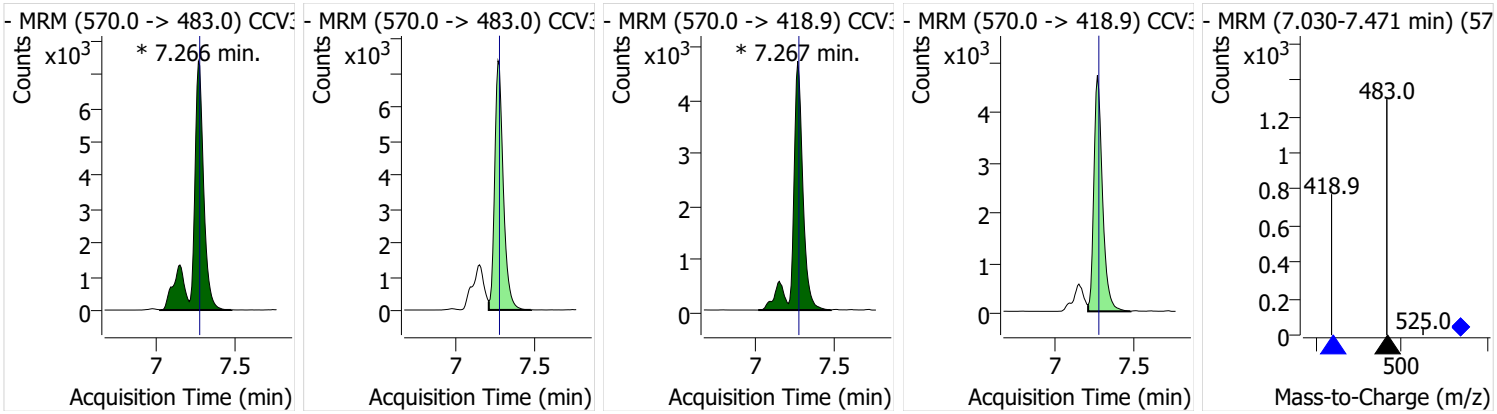
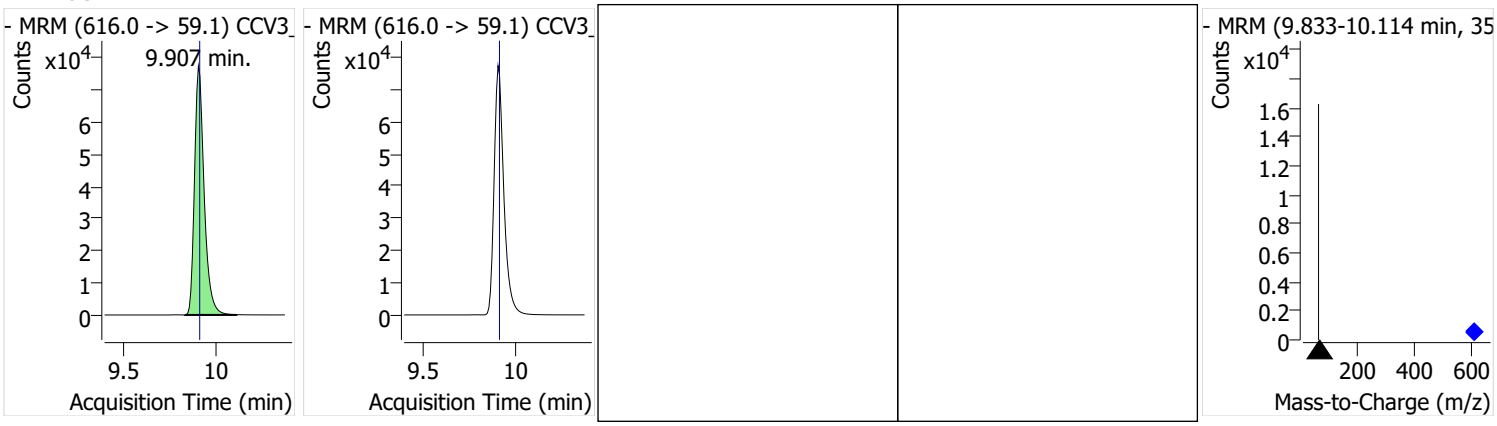
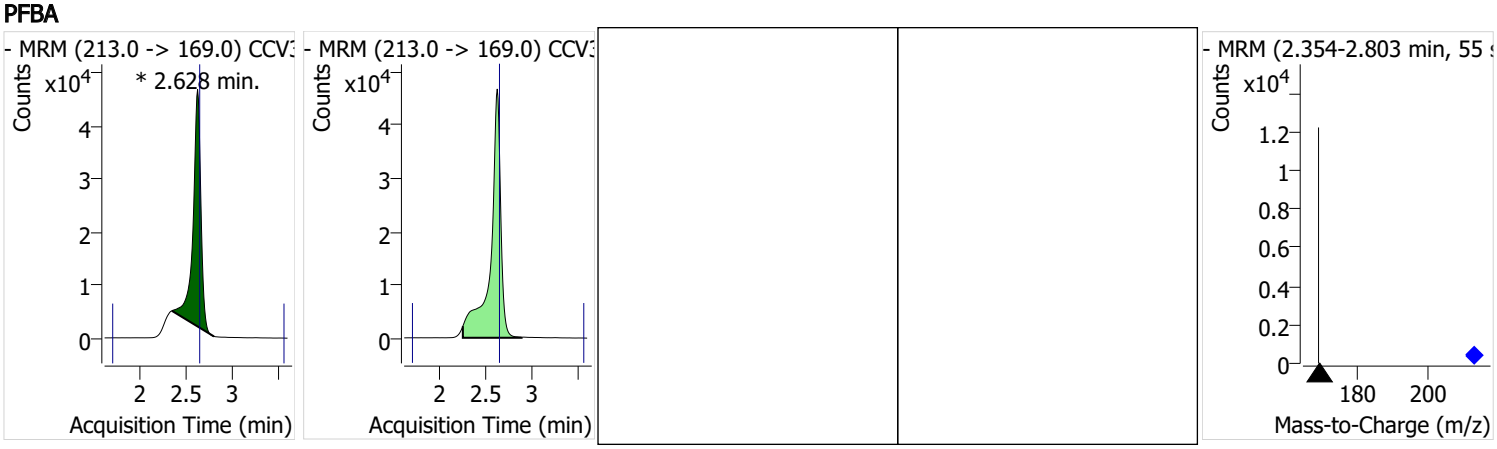


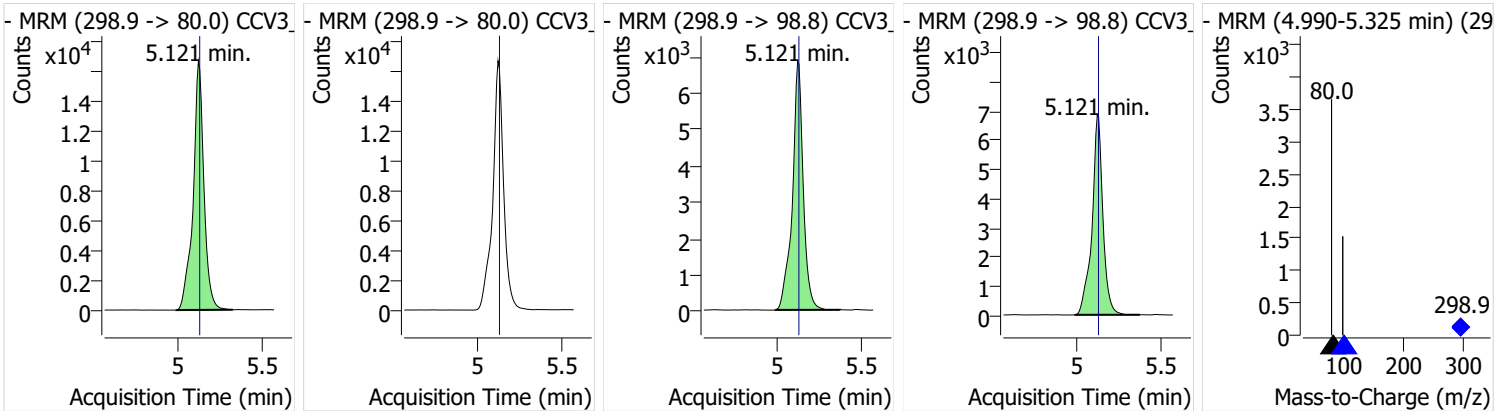
NMeFOSE



PFBA



PFBS



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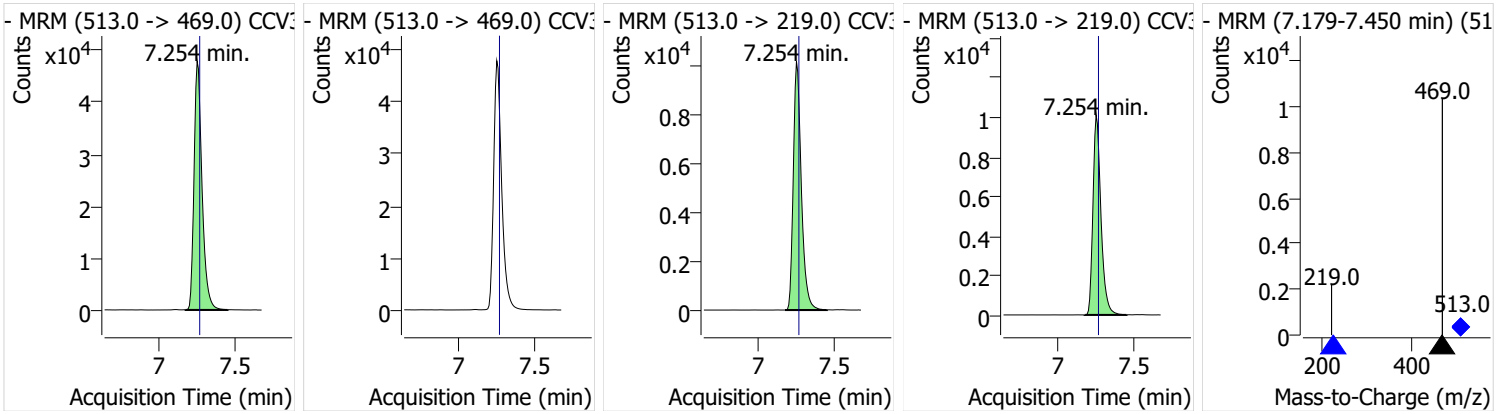
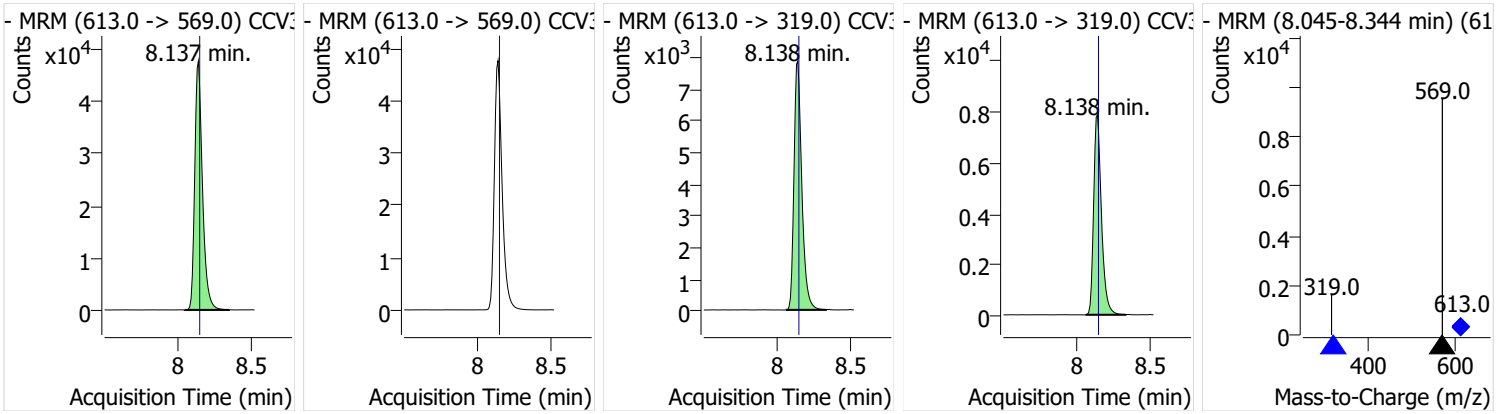
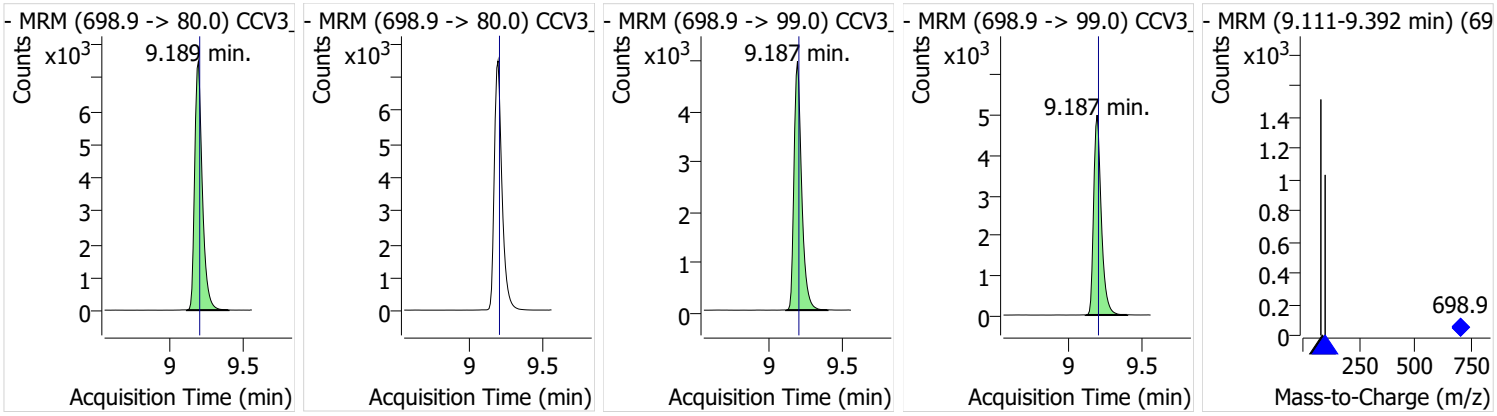


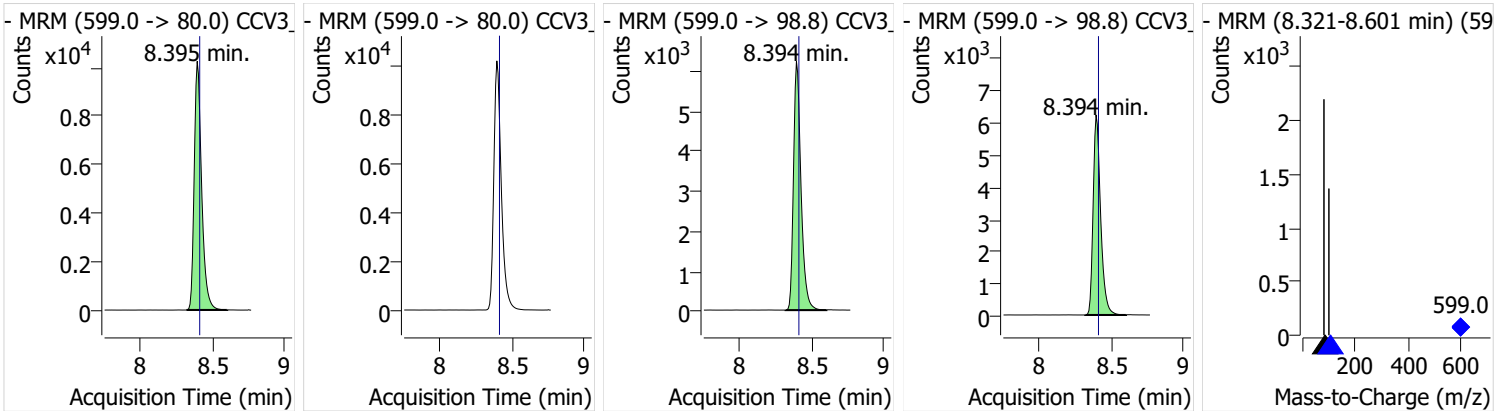
PFDoA



PFDoS



PFDS



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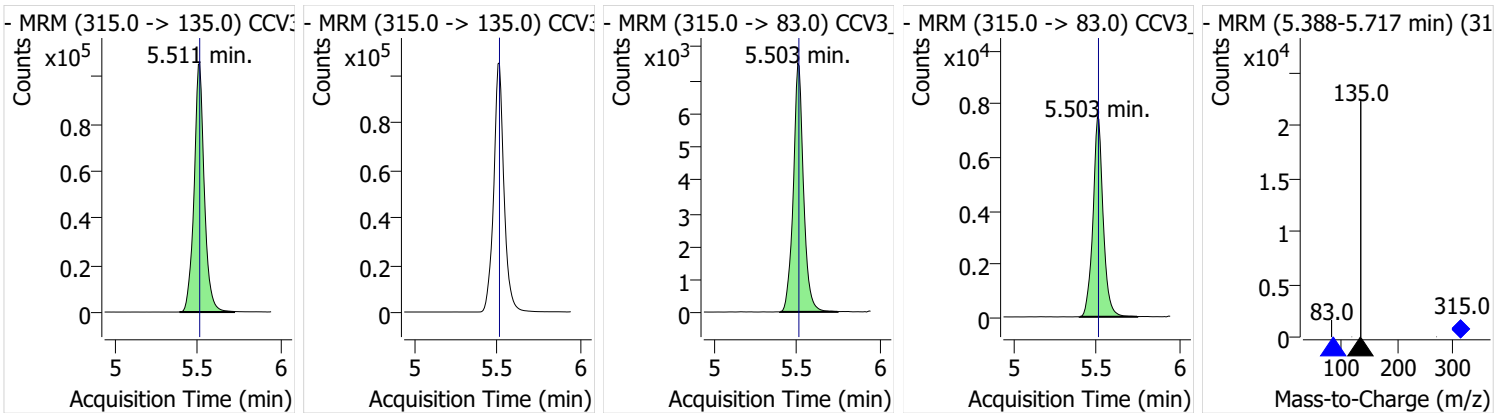
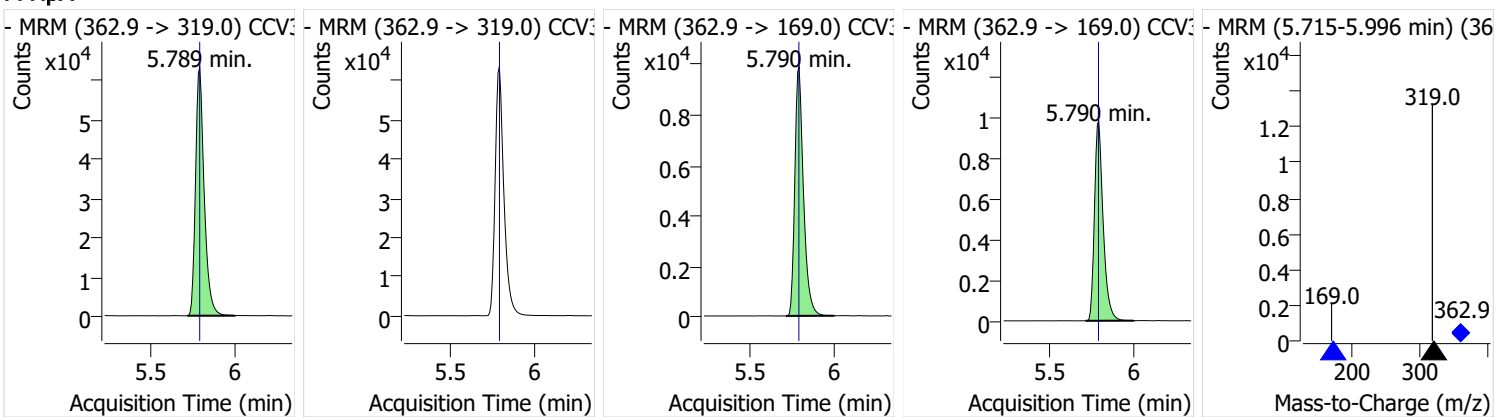


PFHpA



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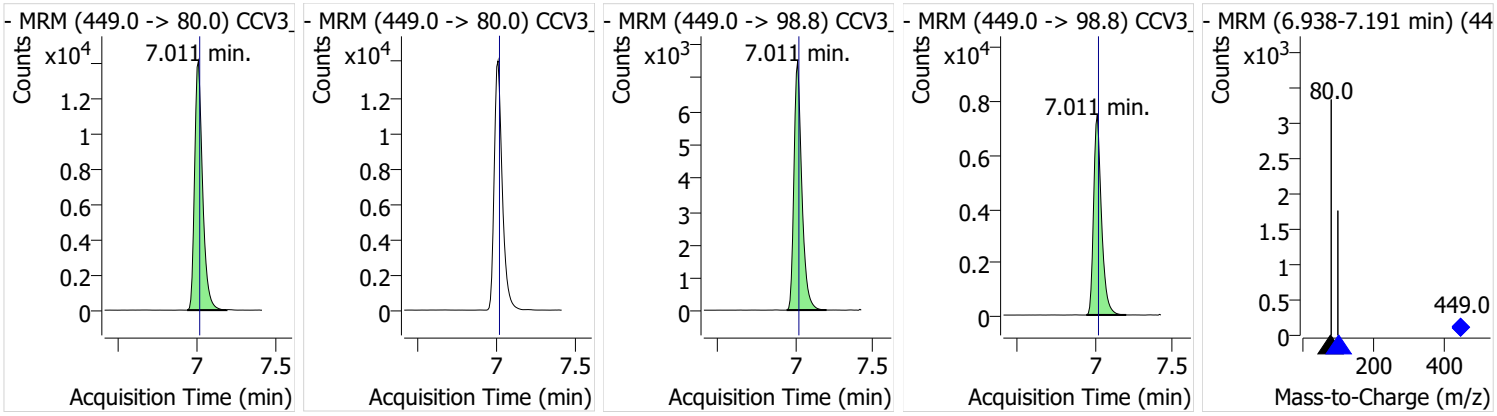
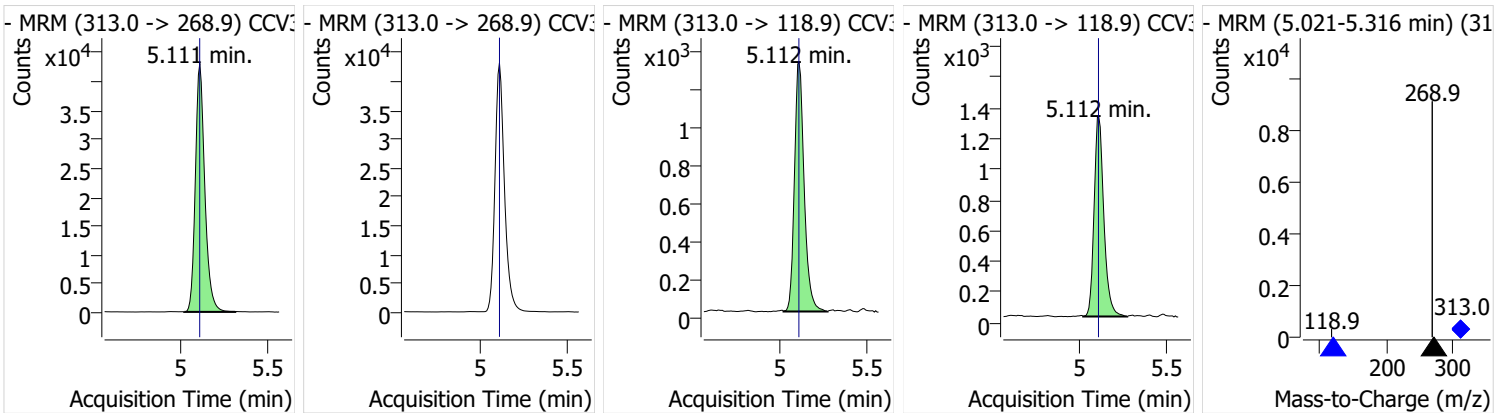
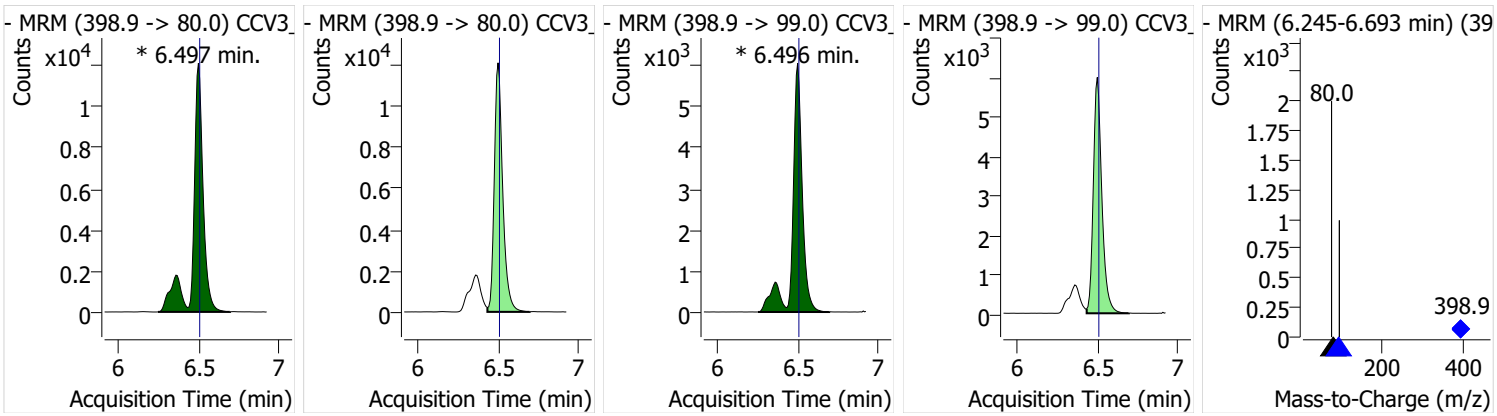


PFHxA



PFHxS



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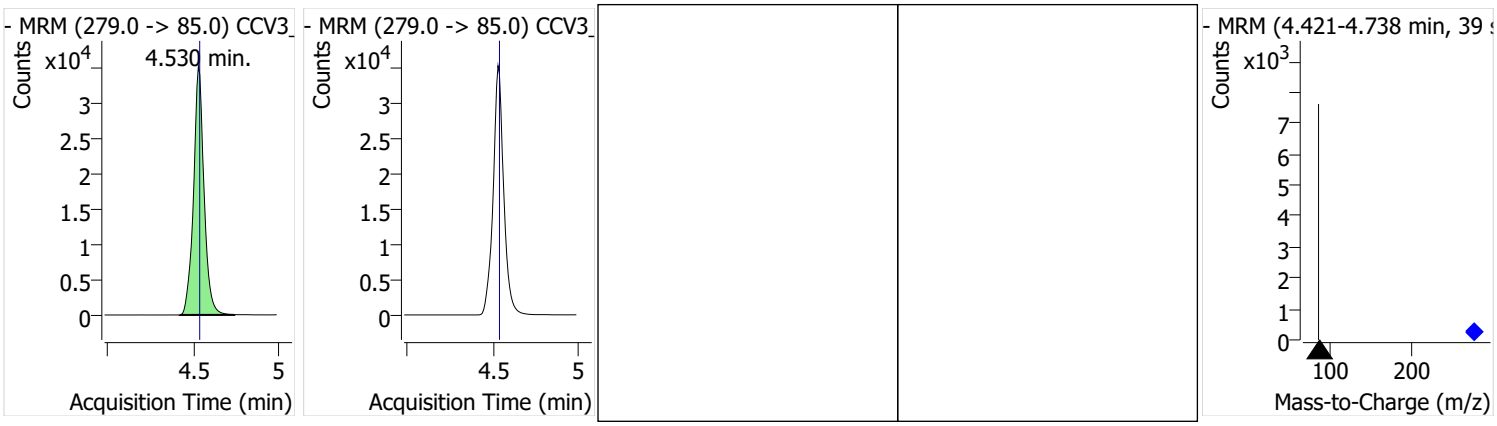

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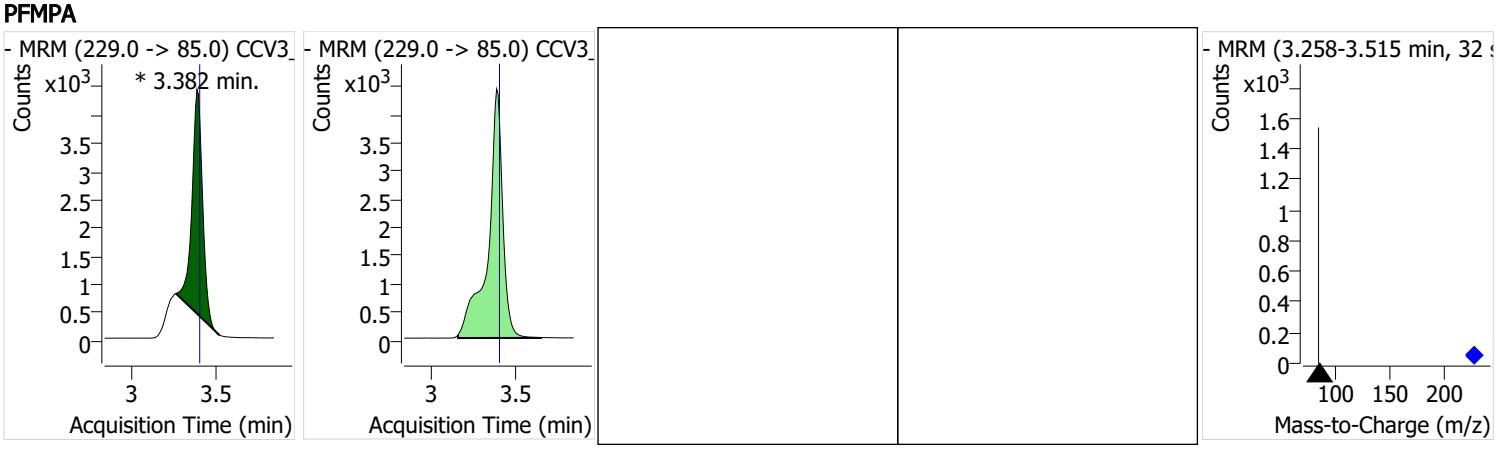

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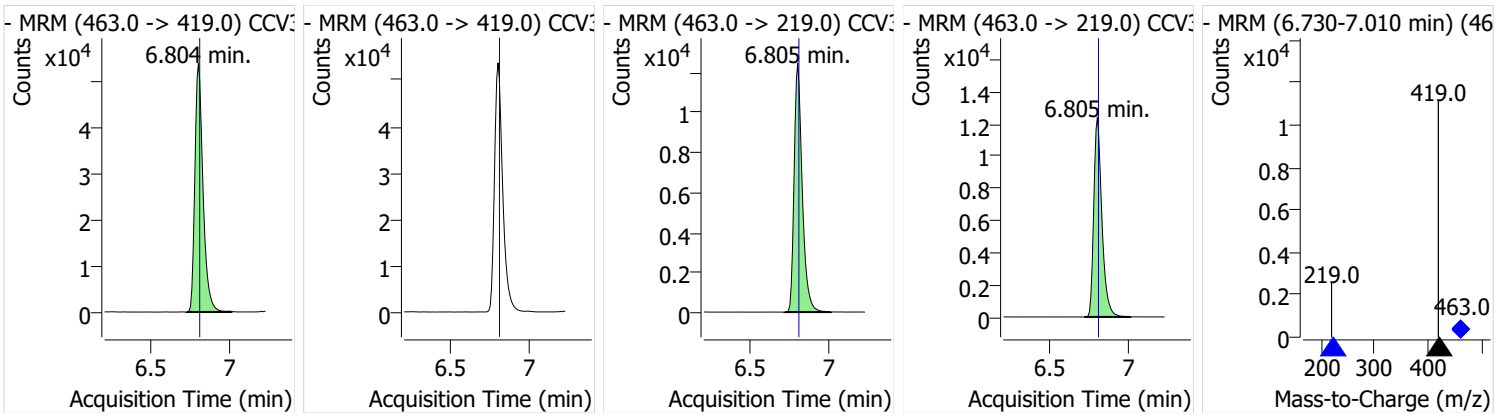
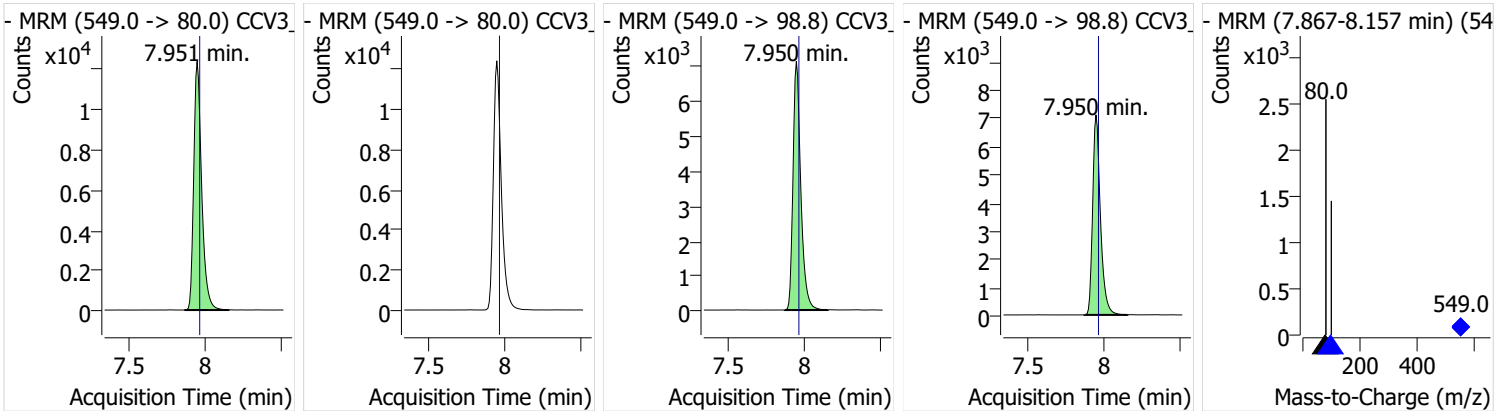
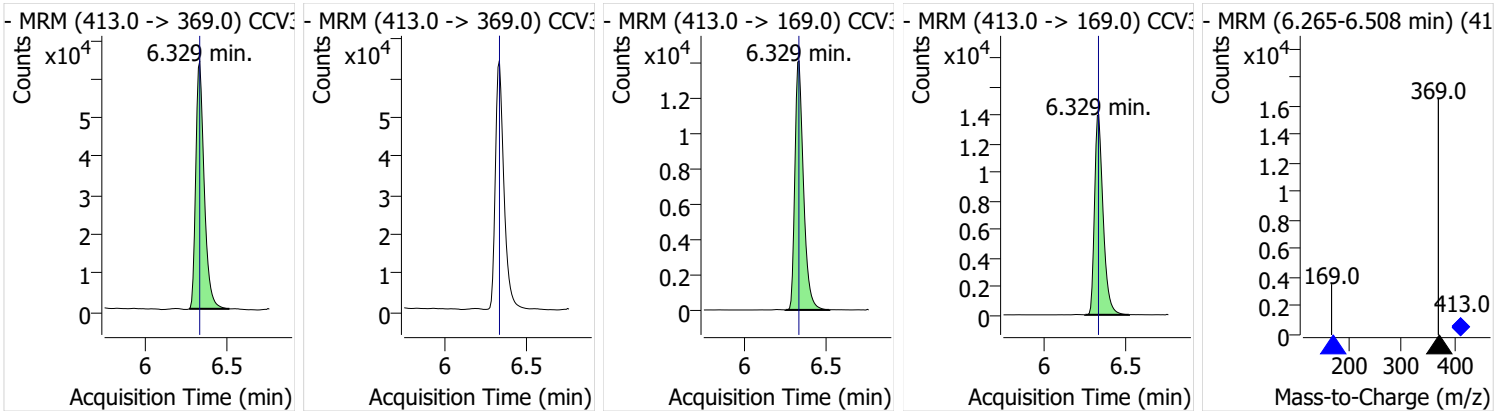


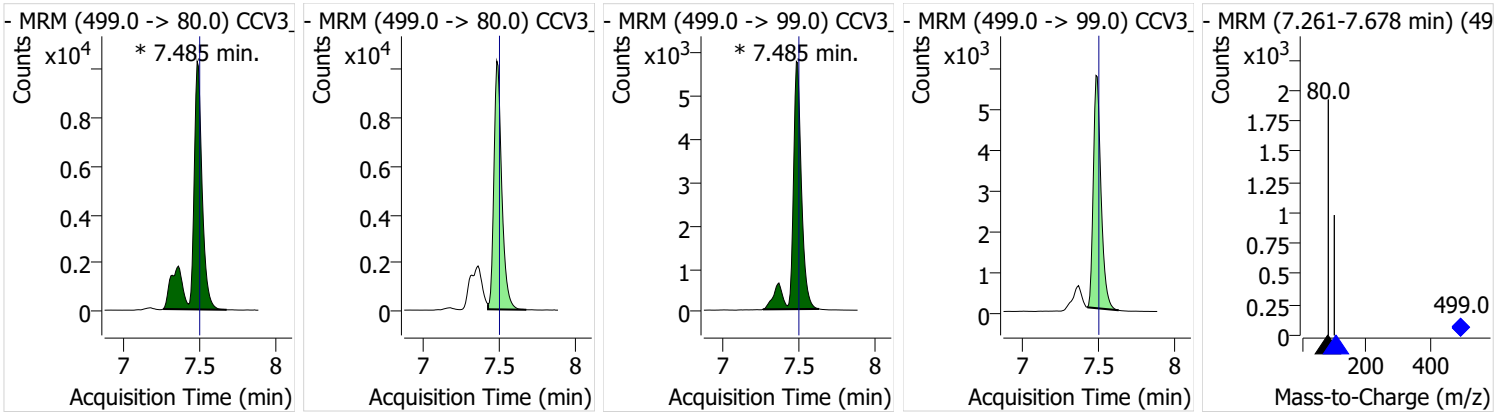
PFNS



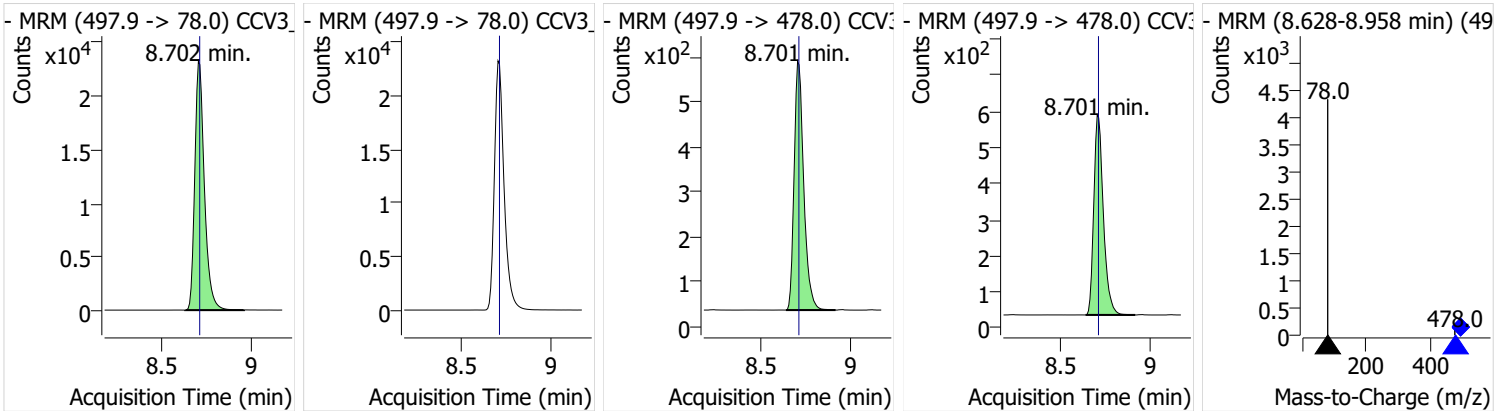
PFOA



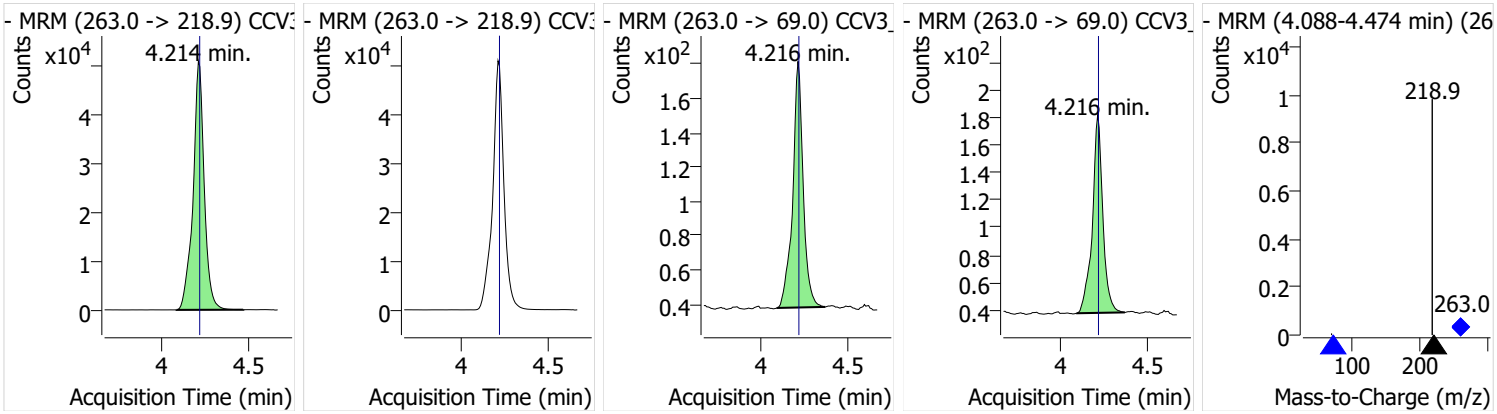
PFOS



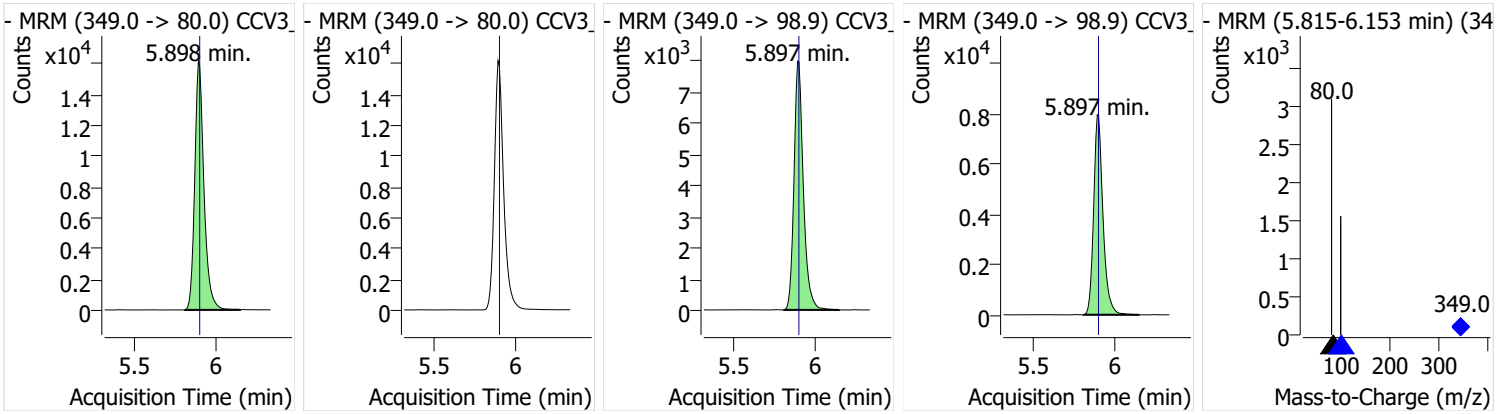
PFOSA



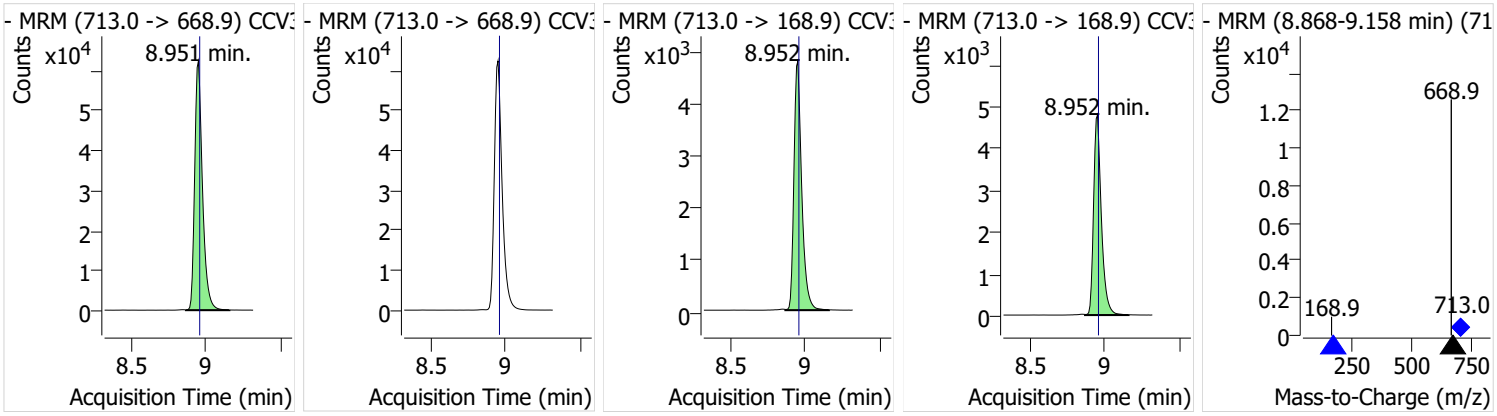
PFPeA



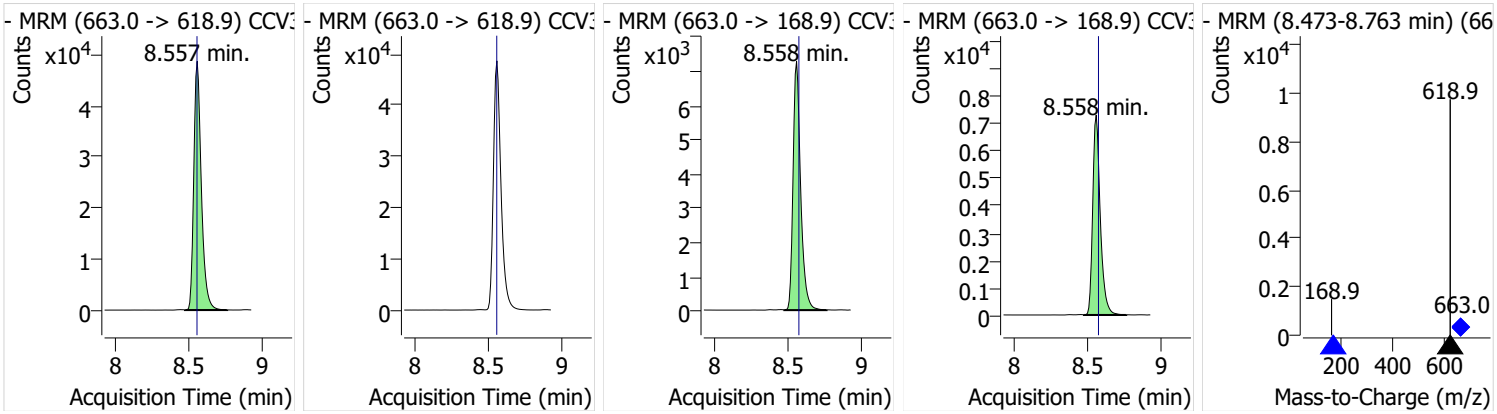
PFPeS



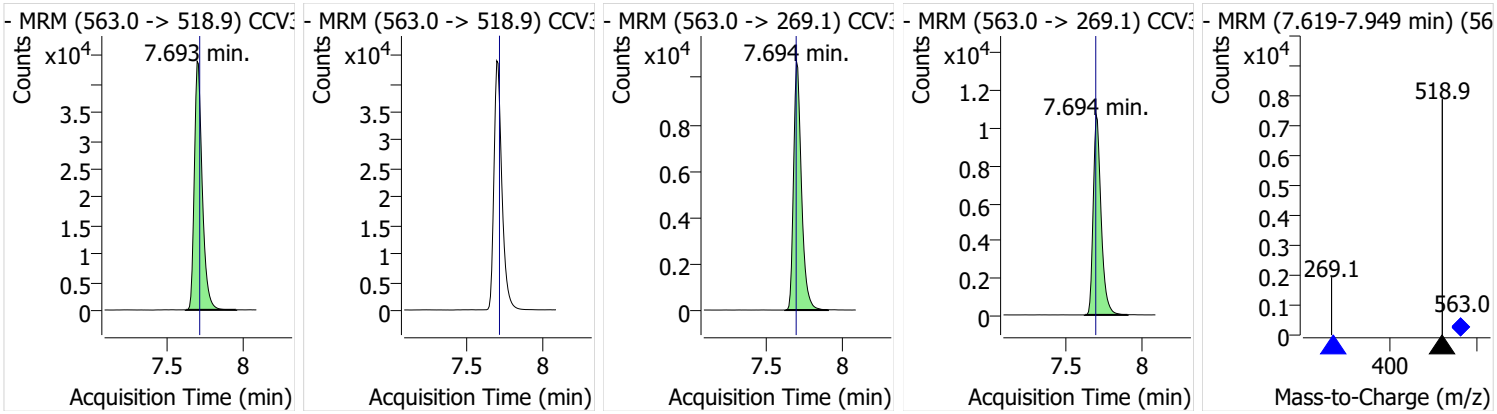
PFTeDA



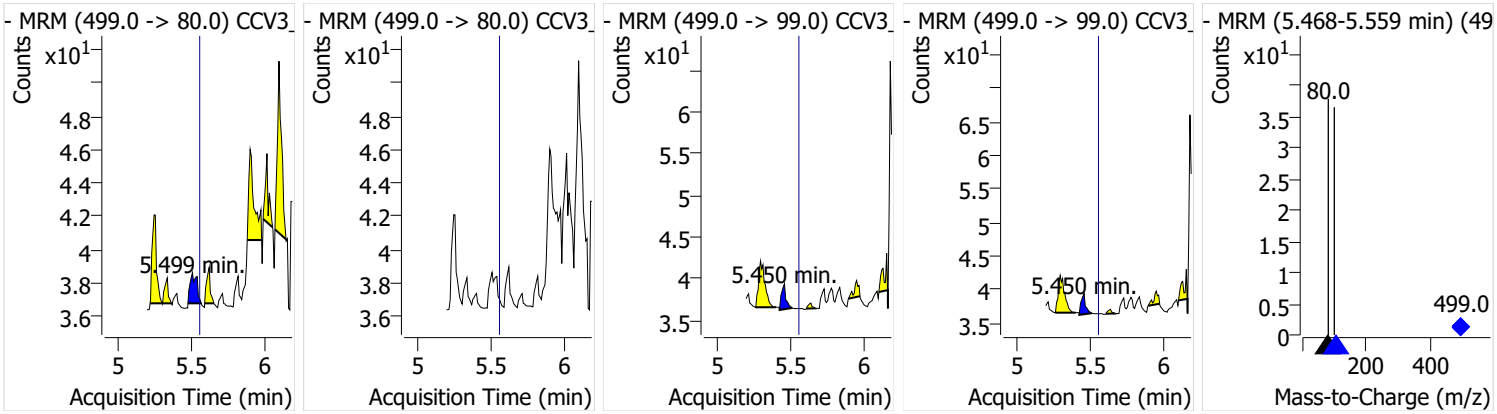
PFTrDA



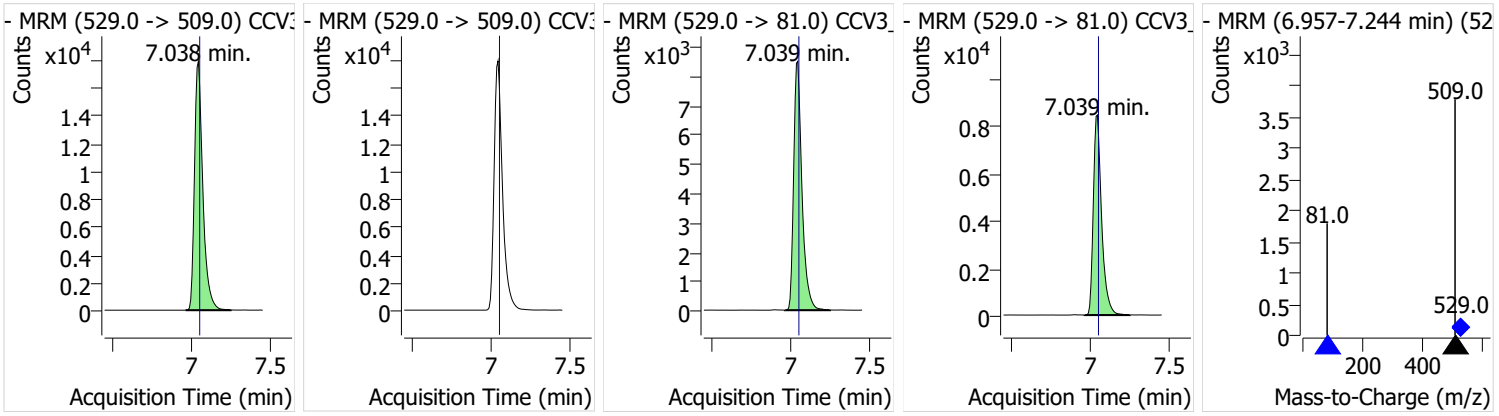
PFUnA



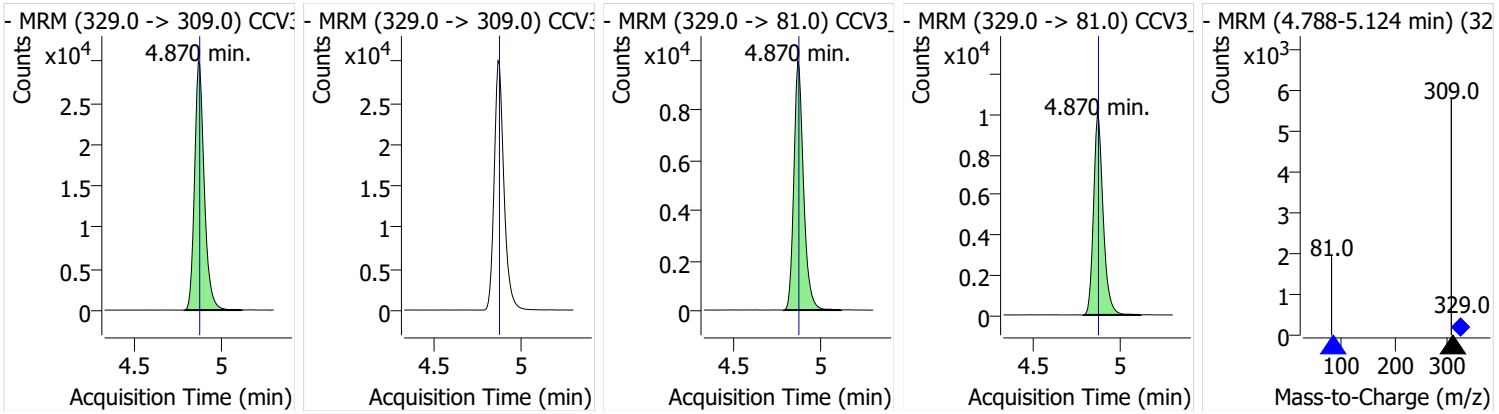
TDCA



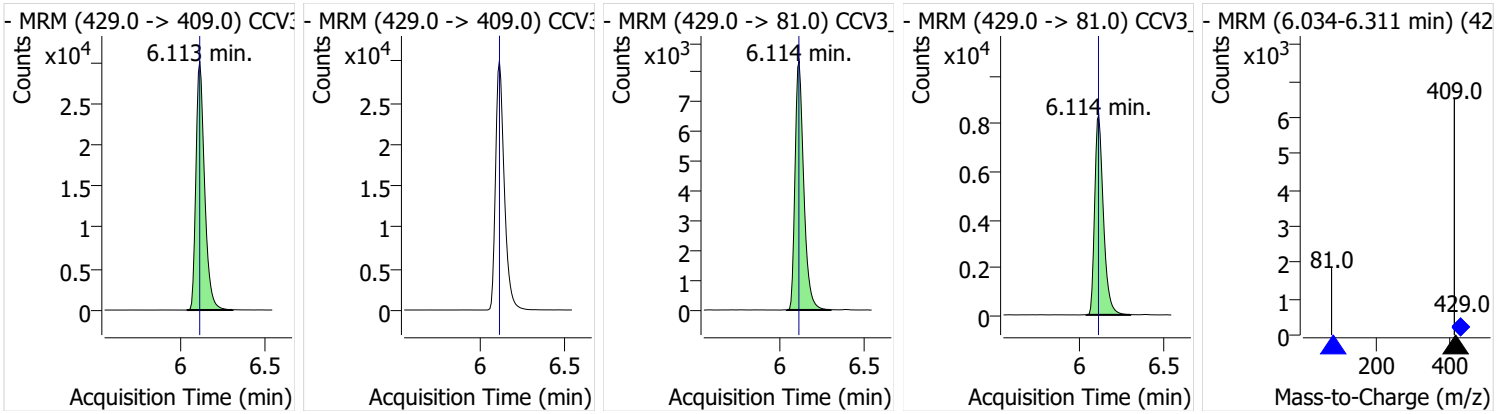
13C2-8:2FTS



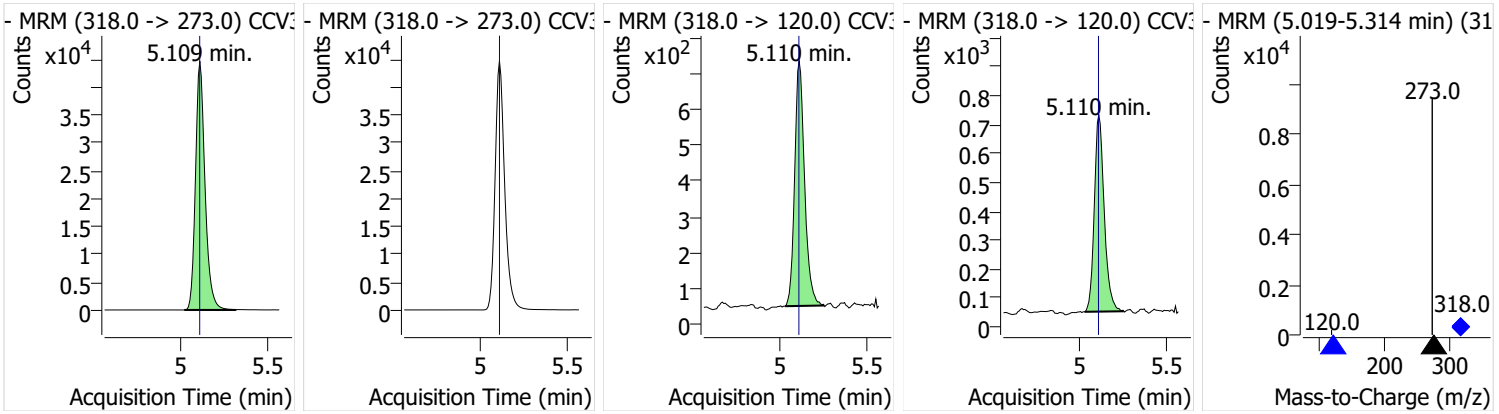
13C2-4:2FTS



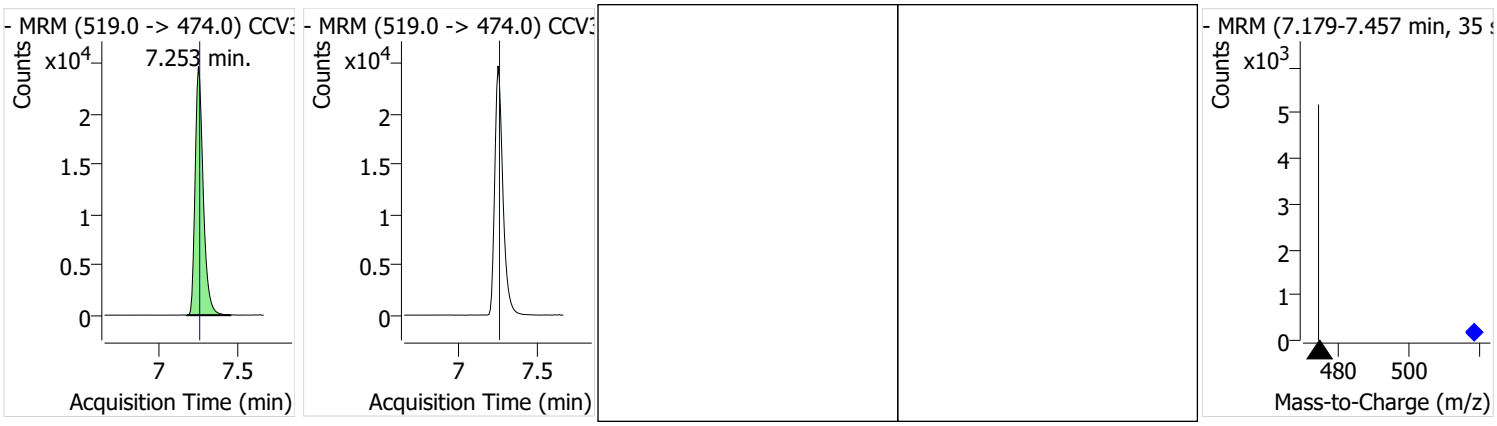
13C2-6:2FTS



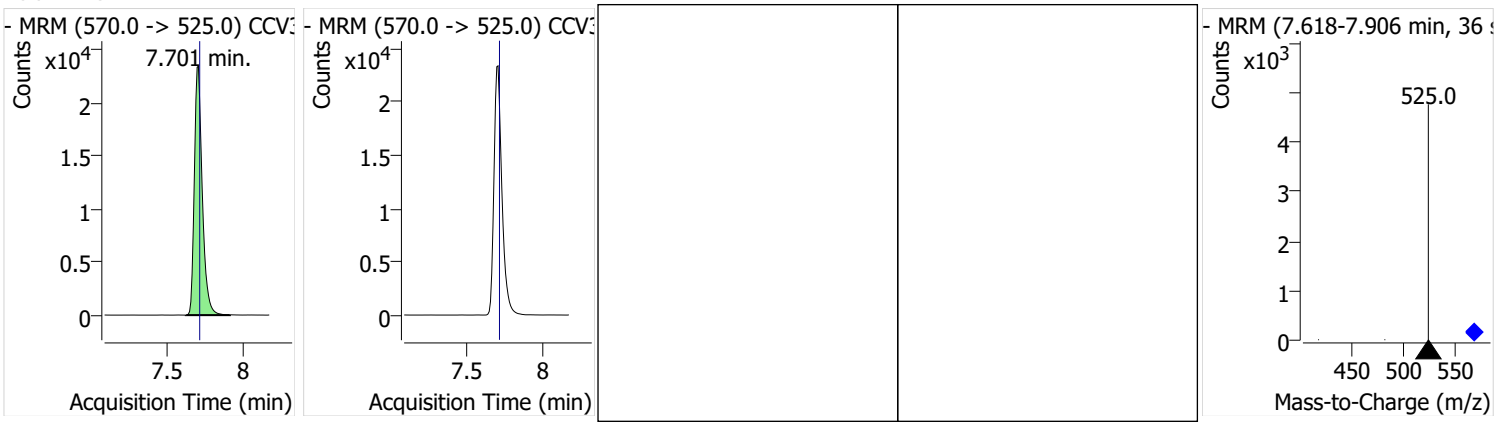
13C5-PFHxA



13C6-PFDA



13C7-PFUnA



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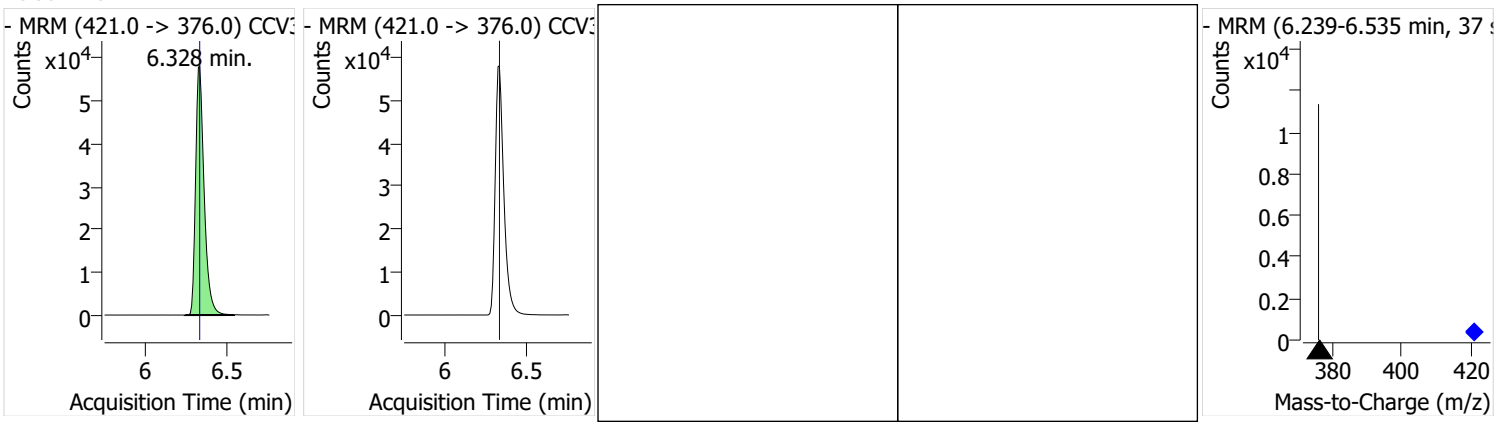

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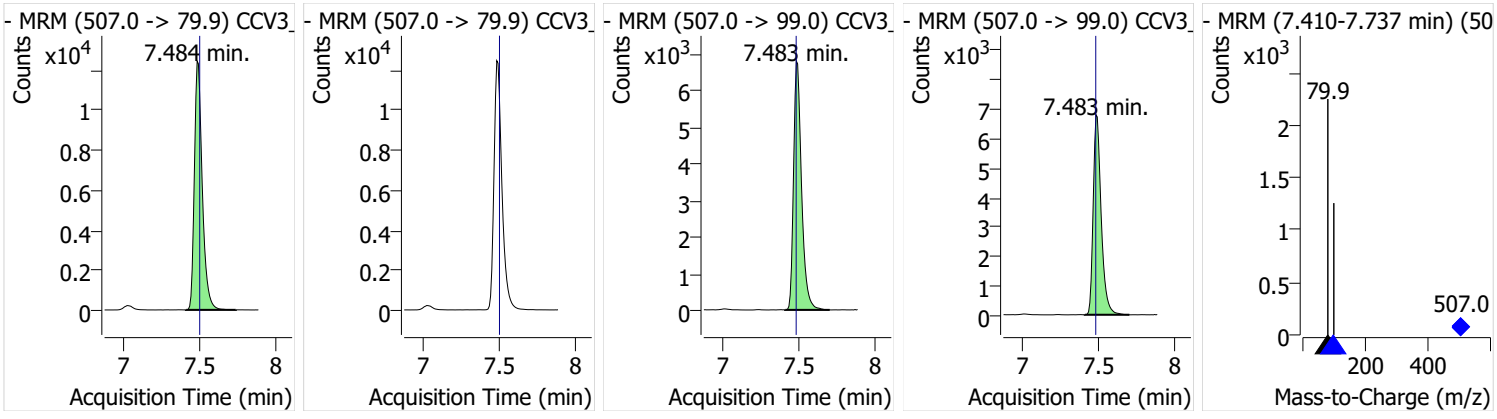

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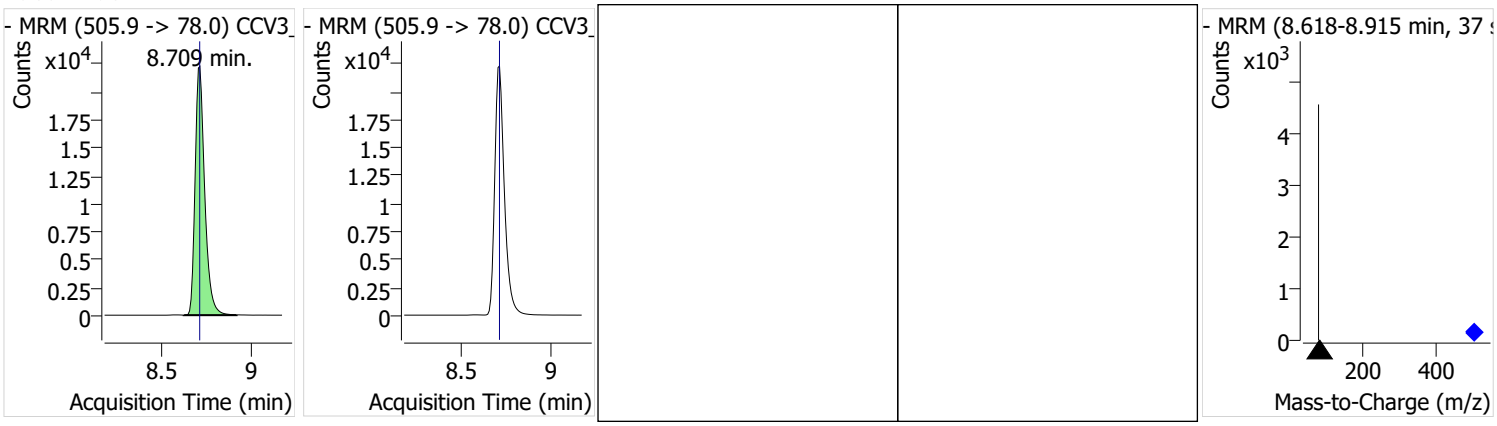

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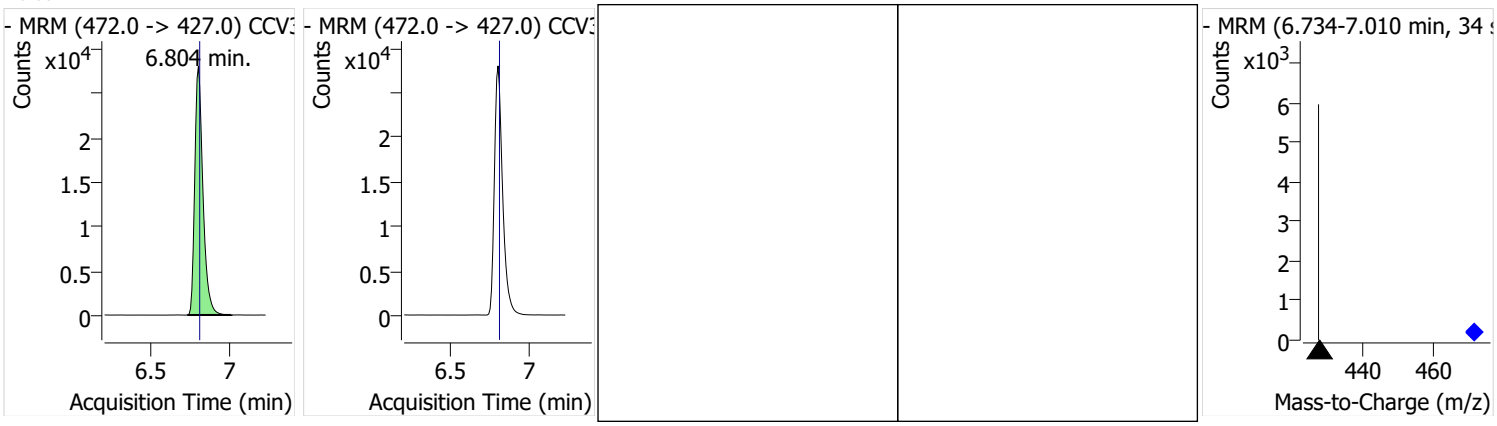

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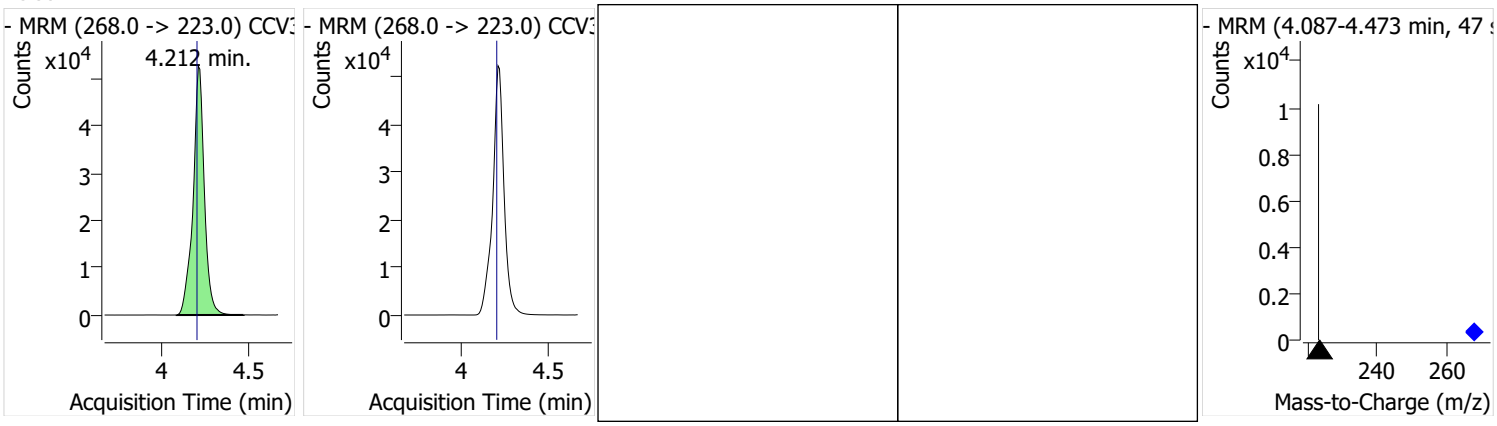

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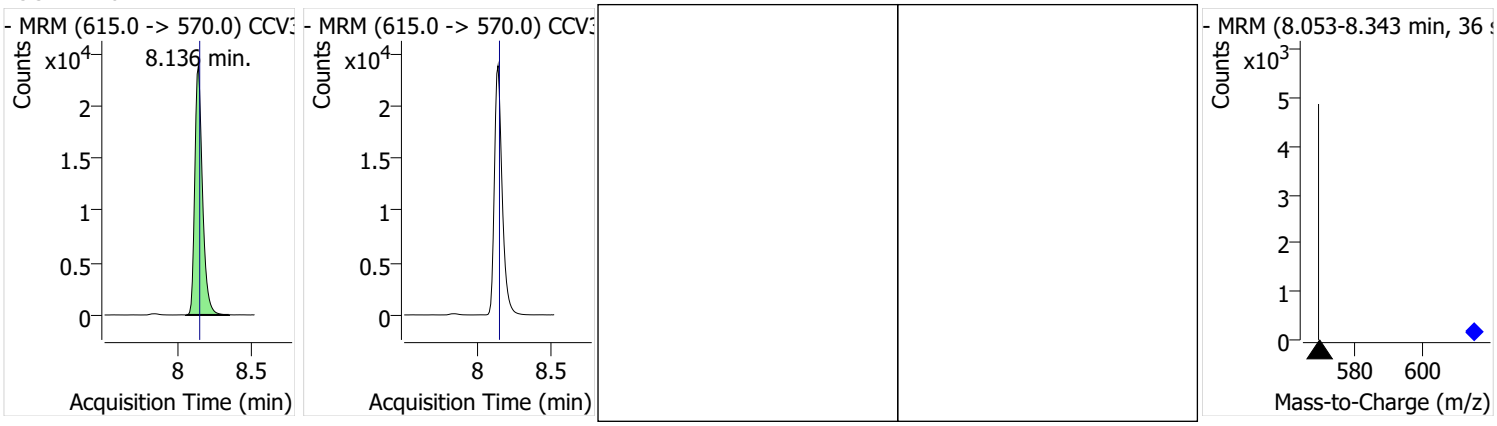
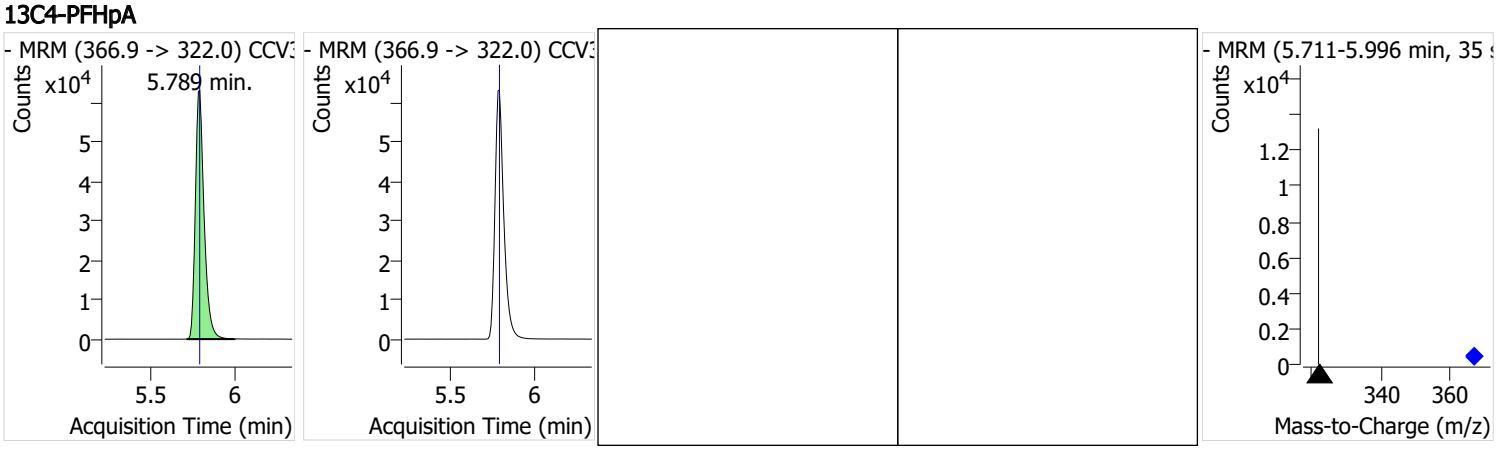


13C4-PFHpA



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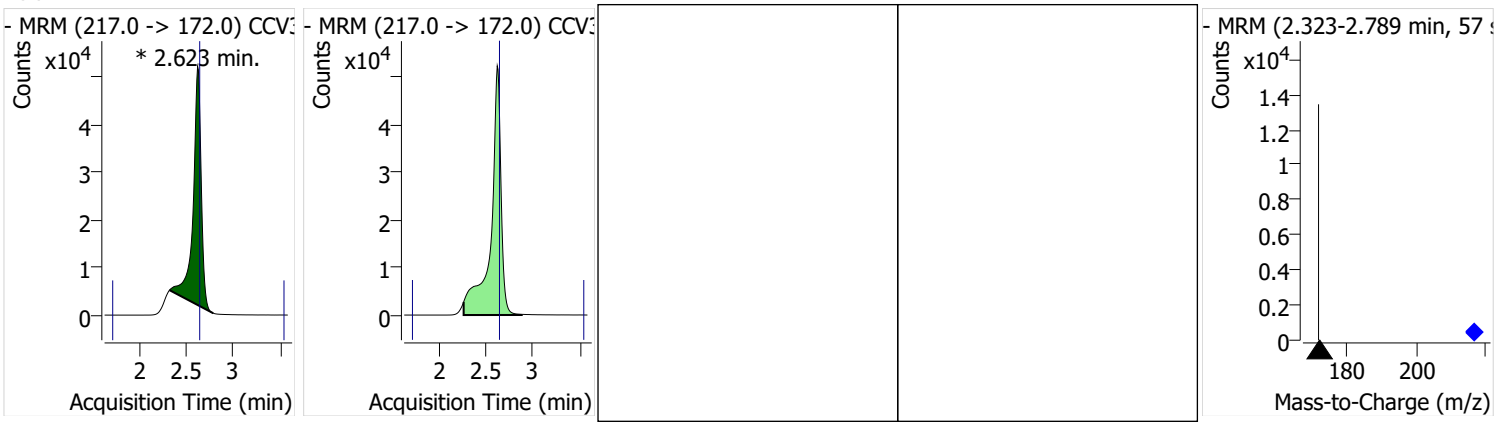
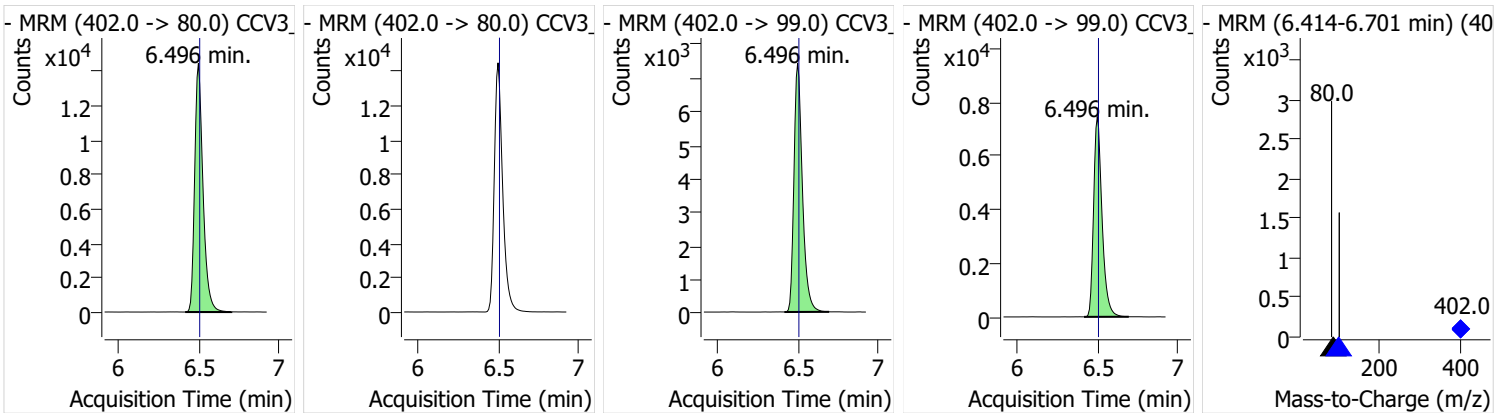
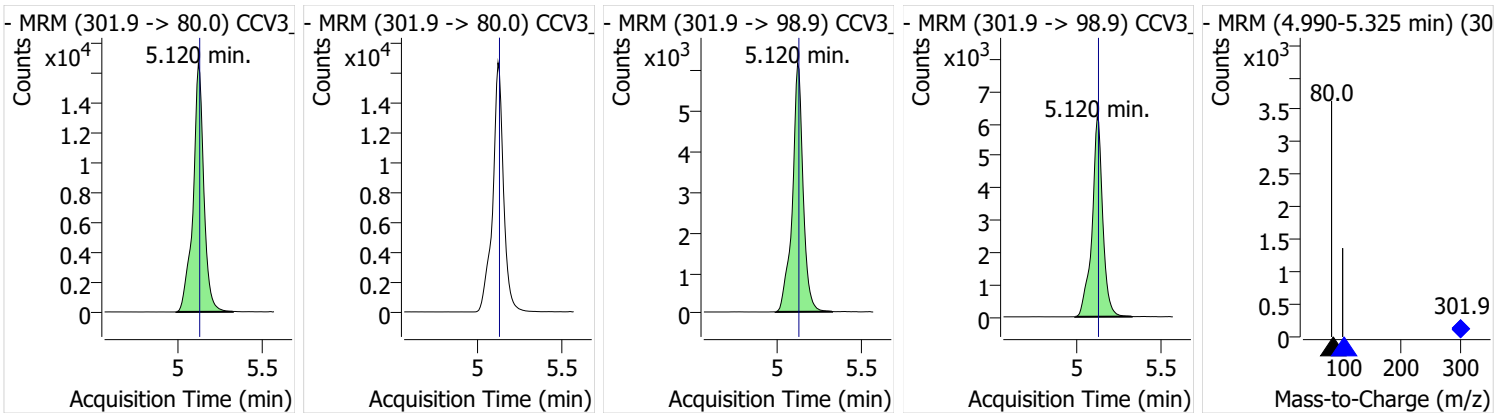


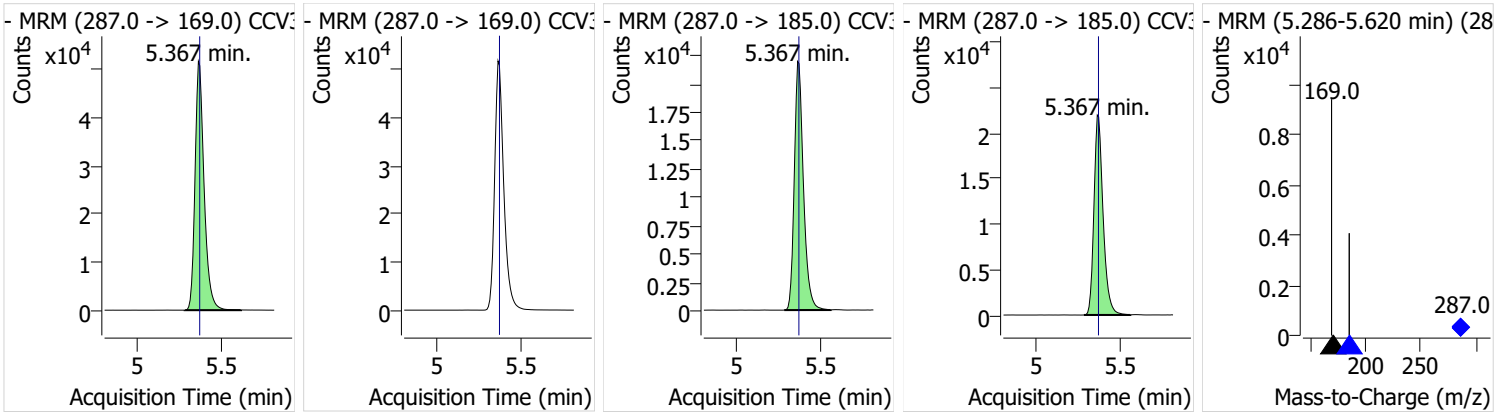
13C3-PFHxS



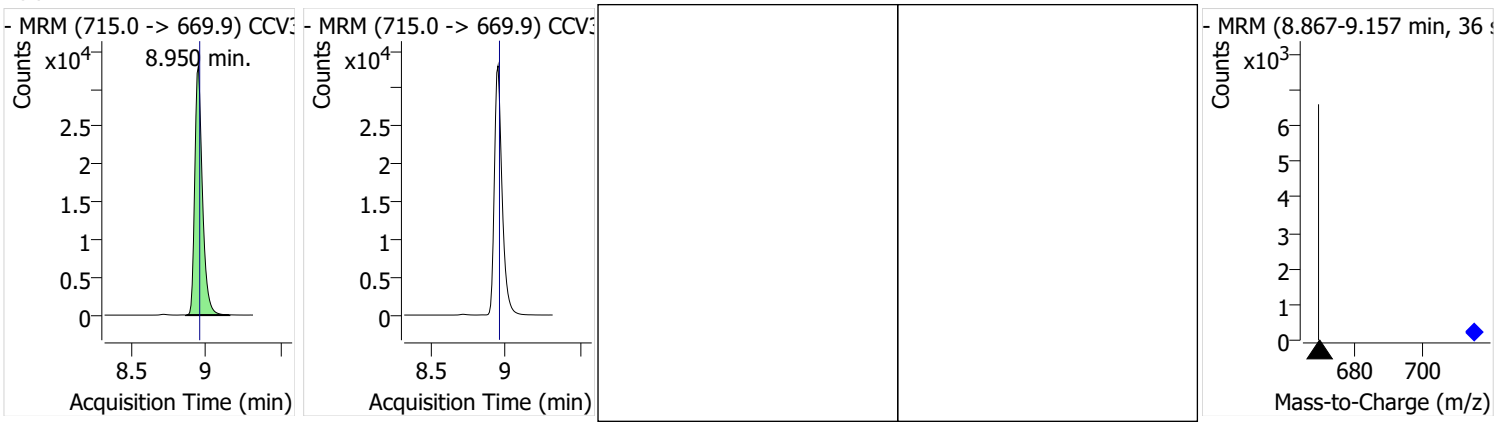
13C3-PFBS



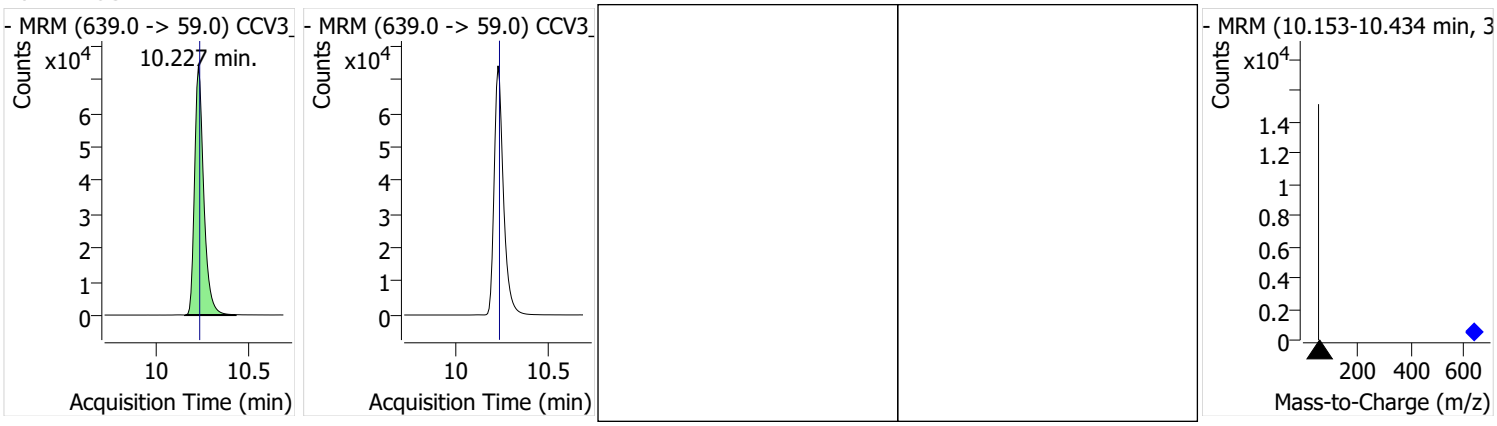
13C3-HFPODA



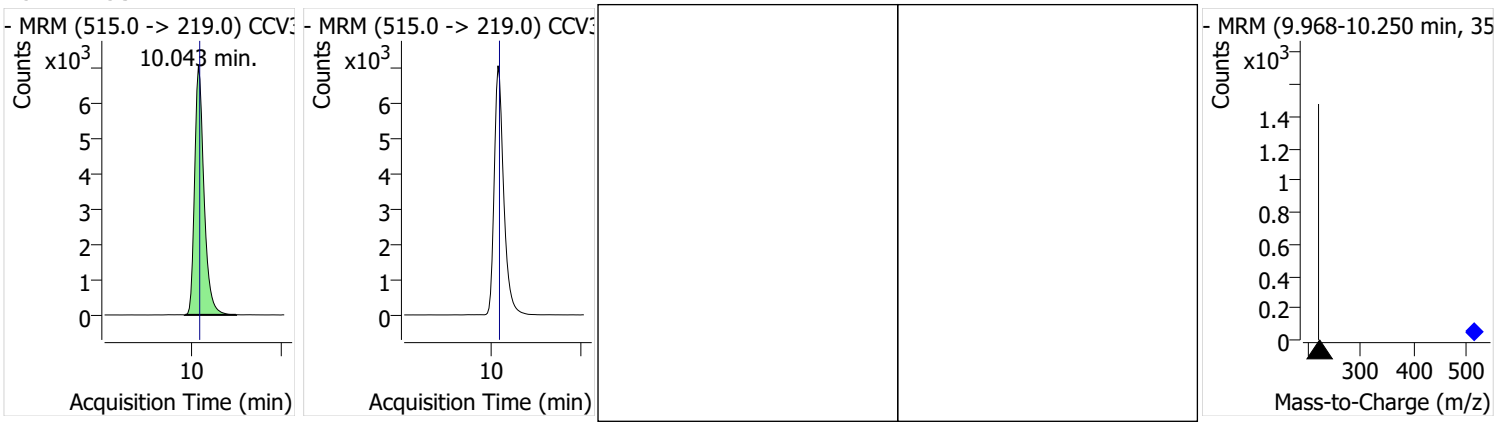
13C2-PFTeDA



D9-NEtFOSE



D3-NMeFOSA



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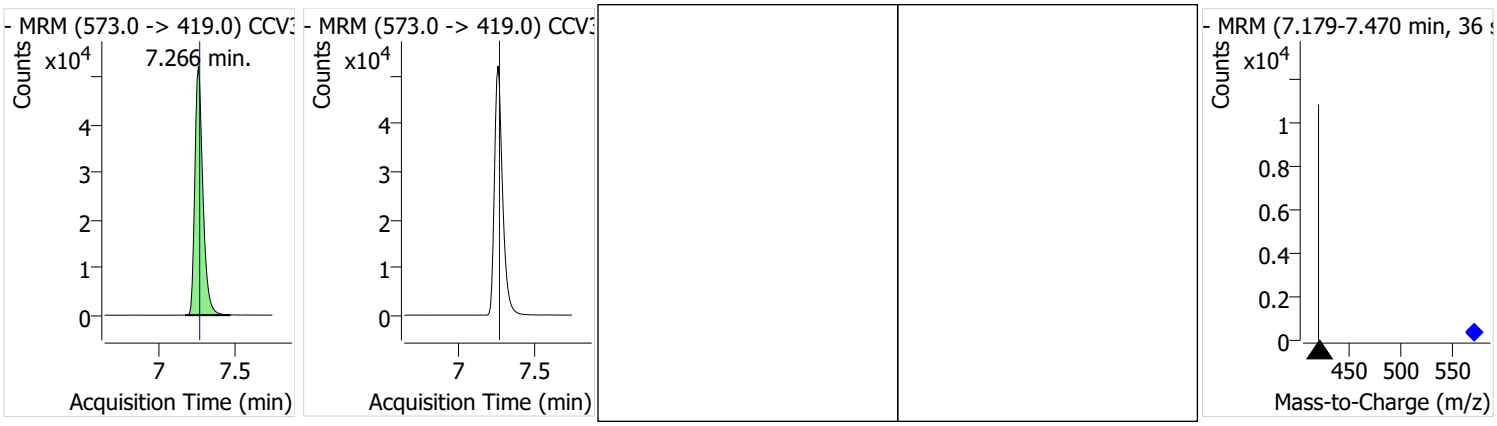

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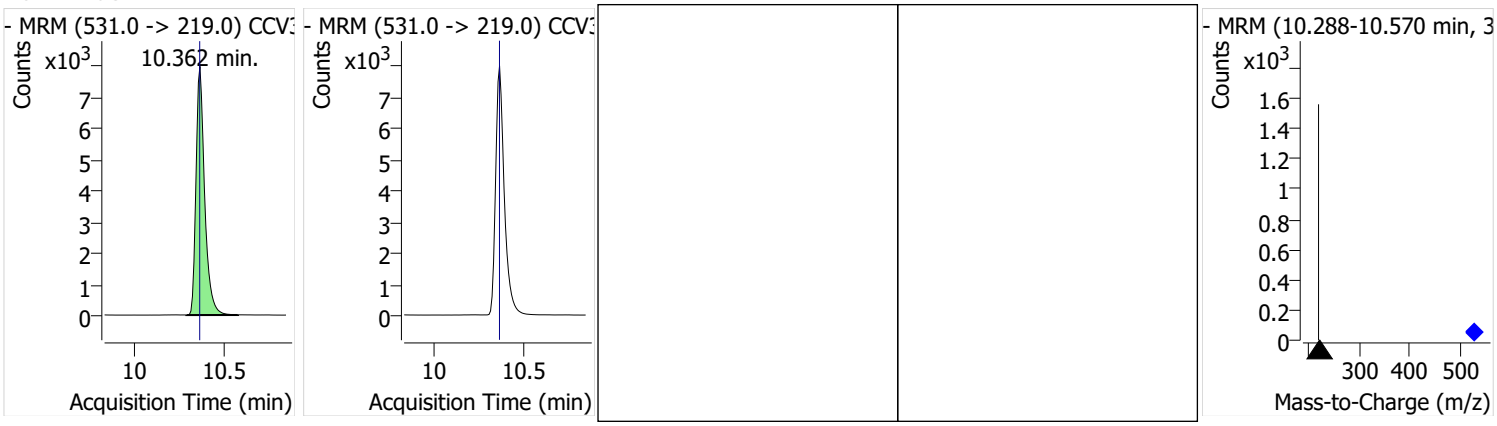
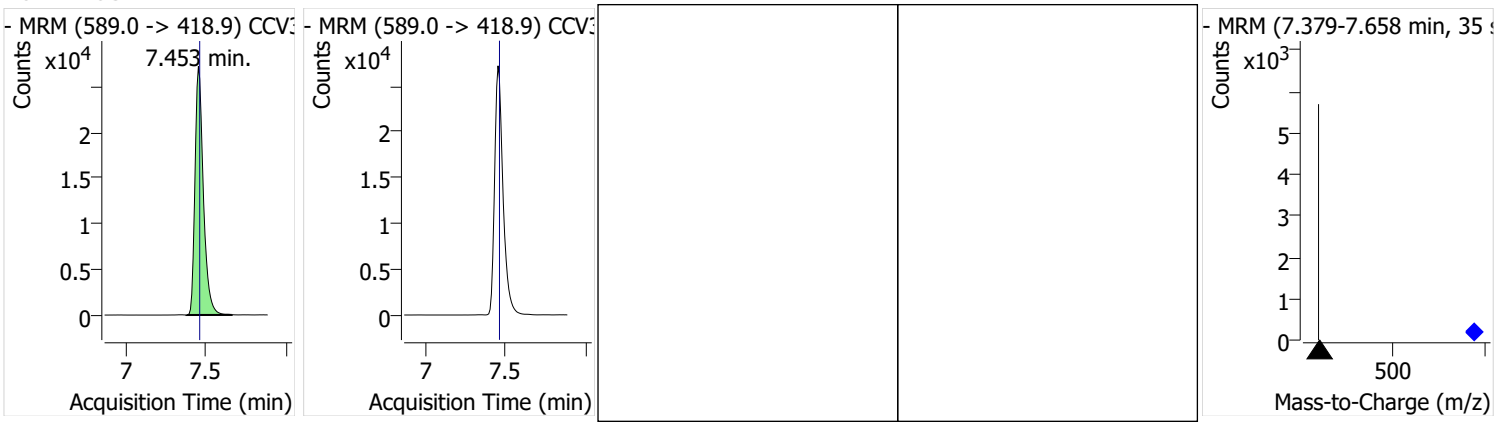
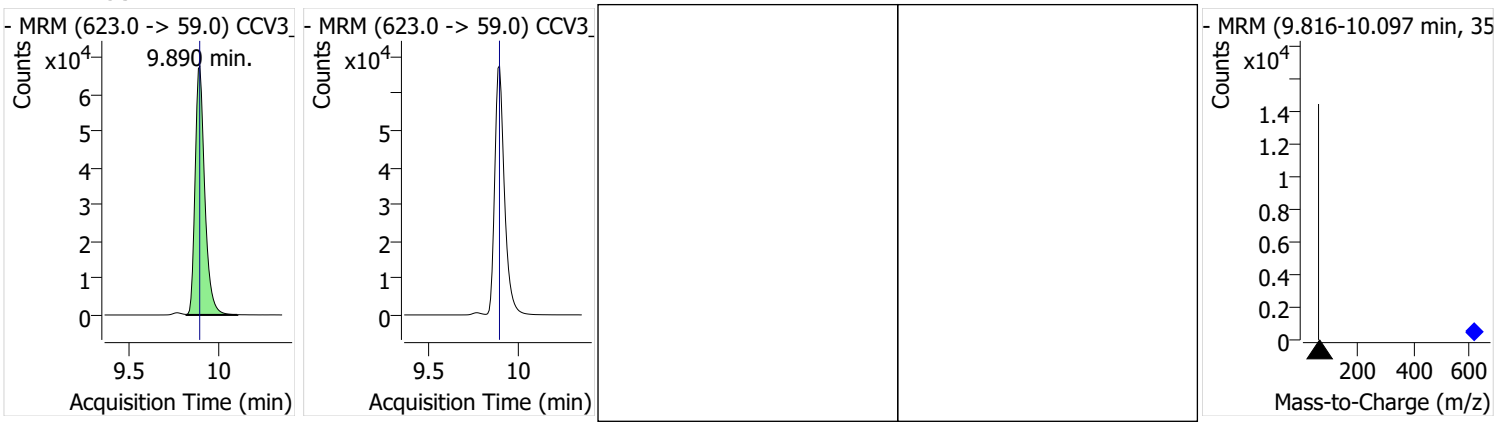


D5-NEtFOSAA



D7-NMeFOSE



7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

Draft Method 1633

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	QQQ5	Calibration:	2400593
Lab File ID:	CCV4_1633_052824.d	Calibration Date:	05/28/24 00:00
Sequence:	S105135	Injection Date:	05/29/24
Lab Sample ID:	S105135-CCV4	Injection Time:	01:47

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Perfluorobutanoic acid (PFBA)	A	10.0	9.73	0.9055443	0.8807073		-2.7	30
Perfluoropentanoic acid (PFPeA)	A	5.00	4.86	0.985154	0.9577011		-2.8	30
Perfluorohexanoic acid (PFHxA)	A	2.50	2.47	0.9796289	0.9686479		-1.1	30
Perfluoroheptanoic acid (PFHpA)	A	2.50	2.40	1.035117	0.9919373		-4.2	30
Perfluorooctanoic acid (PFOA)	A	2.50	2.35	1.147963	1.078341		-6.1	30
Perfluorononanoic acid (PFNA)	A	2.50	2.44	0.9847549	0.9629425		-2.2	30
Perfluorodecanoic acid (PFDA)	A	2.50	2.46	0.9791746	0.9638534		-1.6	30
Perfluoroundecanoic acid (PFUnA)	A	2.50	2.31	0.96917	0.8974183		-7.4	30
Perfluorododecanoic acid (PFDoA)	A	2.50	2.56	1.003722	1.027837		2.4	30
Perfluorotridecanoic acid (PFTrDA)	A	2.50	2.57	1.039237	1.067065		2.7	30
Perfluorotetradecanoic acid (PFTeDA)	A	2.50	2.46	0.9678259	0.9528512		-1.5	30
Perfluorobutanesulfonic acid (PFBS)	A	2.22	2.13	1.179363	1.135055		-3.8	30
Perfluoropentanesulfonic acid (PFPeS)	A	2.35	2.32	1.354494	1.335954		-1.4	30
Perfluorohexanesulfonic acid (PFHxS)	A	2.29	2.22	1.191169	1.157258		-2.8	30
Perfluoroheptanesulfonic acid (PFHpS)	A	2.38	2.45	1.20285	1.23697		2.8	30
Perfluorooctanesulfonic acid (PFOS)	A	2.32	2.26	1.211825	1.180849		-2.6	30
Perfluorononanesulfonic acid (PFNS)	A	2.41	2.47	1.076868	1.103158		2.4	30
Perfluorodecanesulfonic acid (PFDS)	A	2.41	2.48	0.8744912	0.900869		3.0	30
Perfluorododecanesulfonic acid (PFDoS)	A	2.42	2.55	0.6106218	0.6430044		5.3	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	A	9.38	9.58	3.142915	3.212273		2.2	30

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

Draft Method 1633

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	QQQ5	Calibration:	2400593
Lab File ID:	CCV4_1633_052824.d	Calibration Date:	05/28/24 00:00
Sequence:	S105135	Injection Date:	05/29/24
Lab Sample ID:	S105135-CCV4	Injection Time:	01:47

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	A	9.50	9.85	2.842618	2.947897		3.7	30
1H,1H,2H,2H-Perfluorodecan e sulfonic acid (8:2FTS)	A	9.62	9.38	1.79241	1.75019		-2.4	30
Perfluorooctanesulfonamide (PFOSA)	A	2.50	2.40	1.076938	1.03509		-3.9	30
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	A	2.50	2.44	1.173375	1.145699		-2.4	30
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	A	2.50	2.42	1.323332	1.283528		-3.0	30
N-MeFOSAA (NMeFOSAA)	A	2.50	2.46	0.3646716	0.3582126		-1.8	30
N-EtFOSAA (NEtFOSAA)	A	2.50	2.35	1.057171	0.9924121		-6.1	30
N-methylperfluorooctanesulfo namidoethanol(NMeFOSE)	A	25.0	24.2	1.119899	1.083737		-3.2	30
N-ethylperfluorooctanesulfona midoethanol (NEtFOSE)	A	25.0	25.1	1.148085	1.150392		0.2	30
Hexafluoropropylene oxide dimer acid (HFPO-DA)	A	10.0	9.10	0.8537594	0.7772165		-9.0	30
4,8-Dioxa-3H-perfluorononano ic acid (ADONA)	A	9.44	8.13	7.516548	6.465362		-14.0	30
9Cl-PF3ONS (F53B Minor)	A	9.38	9.22	5.656091	5.577027		-1.4	30
11Cl-PF3OUdS (F53B Major)	A	9.44	9.67	3.784009	3.875475		2.4	30
3-Perfluoropropyl propanoic acid (FPrPA)(3:3FTCA)	A	25.0	24.8	4.394286E-02	4.356183E-02		-0.9	30
2H,2H,3H,3H-Perfluorooctano ic acid(FPePA)(5:3FTCA)	A	125	120	0.1283846	0.122836		-4.3	30
3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTCA)	A	125	121	0.1607822	0.1551876		-3.5	30
Perfluoro(2-ethoxyethane)sulf onic acid (PFEESA)	A	4.45	4.65	1.467067	1.531213		4.4	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	A	5.00	5.14	6.968996E-02	7.159735E-02		2.7	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	A	5.00	4.63	0.6583079	0.6091201		-7.5	30
Nonafluoro-3,6-dioxaheptanoi c acid (NFDHA)	A	5.00	5.13	7.003551E-02	7.191352E-02		2.7	30
13C4-PFBA	A	10.0	10.3	1.092274	1.128875		3.4	30

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

Draft Method 1633

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	QQQ5	Calibration:	2400593
Lab File ID:	CCV4_1633_052824.d	Calibration Date:	05/28/24 00:00
Sequence:	S105135	Injection Date:	05/29/24
Lab Sample ID:	S105135-CCV4	Injection Time:	01:47

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
13C5-PFPeA	A	5.00	4.96	0.7854588	0.7794862		-0.8	30
13C5-PFHxA	A	2.50	2.54	1.059253	1.07486		1.5	30
13C4-PFHpA	A	2.50	2.67	1.381858	1.476337		6.8	30
13C8-PFOA	A	2.50	2.58	8.180126	8.427011		3.0	30
13C9-PFNA	A	1.25	1.31	0.7691169	0.8087879		5.2	30
13C6-PFDA	A	1.25	1.32	0.9953557	1.054558		5.9	30
13C7-PFUnA	A	1.25	1.41	0.9305727	1.050552		12.9	30
13C2-PFDoA	A	1.25	1.35	0.9604648	1.034489		7.7	30
13C2-PFTeDA	A	1.25	1.39	1.295151	1.44034		11.2	30
13C3-PFBS	A	2.50	2.50	1.484657	1.487126		0.2	30
13C3-PFHxS	A	2.50	2.54	1.025978	1.042266		1.6	30
13C8-PFOS	A	2.50	2.47	0.9272679	0.9156731		-1.3	30
13C2-4:2FTS	A	5.00	4.65	1.272731	1.182955		-7.1	30
13C2-6:2FTS	A	5.00	4.90	1.131247	1.107896		-2.1	30
13C2-8:2FTS	A	5.00	5.26	0.6827405	0.718176		5.2	30
13C8-PFOSA	A	2.50	2.58	1.675551	1.728716		3.2	30
D3-NMeFOSA	A	2.50	2.37	0.547367	0.5196923		-5.1	30
D5-NEtFOSA	A	2.50	2.55	0.5572248	0.5694239		2.2	30
D3-NMeFOSAA	A	5.00	5.29	1.857945	1.966535		5.8	30
D5-NEtFOSAA	A	5.00	5.35	0.9301541	0.9954202		7.0	30
D7-NMeFOSE	A	25.0	26.2	0.50654	0.5313157		4.9	30
D9-NEtFOSE	A	25.0	27.6	0.5420359	0.598329		10.4	30
13C3-HFPO-DA	A	10.0	10.5	0.3037858	0.3199056		5.3	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

File Not Found: Sequence\S\S105135-CCV4_CCV4_1633_052824.d.pdf

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

Draft Method 1633

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	QQQ5	Calibration:	2400593
Lab File ID:	CCV5_1633_052824.d	Calibration Date:	05/28/24 00:00
Sequence:	S105135	Injection Date:	05/29/24
Lab Sample ID:	S105135-CCV5	Injection Time:	04:39

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Perfluorobutanoic acid (PFBA)	A	10.0	9.50	0.9055443	0.8598815		-5.0	30
Perfluoropentanoic acid (PFPeA)	A	5.00	4.86	0.985154	0.9567368		-2.9	30
Perfluorohexanoic acid (PFHxA)	A	2.50	2.44	0.9796289	0.9548862		-2.5	30
Perfluoroheptanoic acid (PFHpA)	A	2.50	2.45	1.035117	1.012366		-2.2	30
Perfluorooctanoic acid (PFOA)	A	2.50	2.35	1.147963	1.079812		-5.9	30
Perfluorononanoic acid (PFNA)	A	2.50	2.47	0.9847549	0.9726358		-1.2	30
Perfluorodecanoic acid (PFDA)	A	2.50	2.41	0.9791746	0.9442499		-3.6	30
Perfluoroundecanoic acid (PFUnA)	A	2.50	2.39	0.96917	0.9251911		-4.5	30
Perfluorododecanoic acid (PFDoA)	A	2.50	2.49	1.003722	0.9998926		-0.4	30
Perfluorotridecanoic acid (PFTrDA)	A	2.50	2.65	1.039237	1.101597		6.0	30
Perfluorotetradecanoic acid (PFTeDA)	A	2.50	2.43	0.9678259	0.938889		-3.0	30
Perfluorobutanesulfonic acid (PFBS)	A	2.22	2.17	1.179363	1.151671		-2.3	30
Perfluoropentanesulfonic acid (PFPeS)	A	2.35	2.28	1.354494	1.315839		-2.9	30
Perfluorohexanesulfonic acid (PFHxS)	A	2.29	2.21	1.191169	1.152278		-3.3	30
Perfluoroheptanesulfonic acid (PFHpS)	A	2.38	2.28	1.20285	1.152057		-4.2	30
Perfluorooctanesulfonic acid (PFOS)	A	2.32	2.19	1.211825	1.144624		-5.5	30
Perfluorononanesulfonic acid (PFNS)	A	2.41	2.33	1.076868	1.043009		-3.1	30
Perfluorodecanesulfonic acid (PFDS)	A	2.41	2.35	0.8744912	0.8514181		-2.6	30
Perfluorododecanesulfonic acid (PFDoS)	A	2.42	2.38	0.6106218	0.6003691		-1.7	30
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	A	9.38	9.20	3.142915	3.086184		-1.8	30

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CONTINUING CALIBRATION VERIFICATION

Draft Method 1633

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	QQQ5	Calibration:	2400593
Lab File ID:	CCV5_1633_052824.d	Calibration Date:	05/28/24 00:00
Sequence:	S105135	Injection Date:	05/29/24
Lab Sample ID:	S105135-CCV5	Injection Time:	04:39

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	A	9.50	9.76	2.842618	2.921314		2.8	30
1H,1H,2H,2H-Perfluorodecan e sulfonic acid (8:2FTS)	A	9.62	9.60	1.79241	1.791672		-0.04	30
Perfluorooctanesulfonamide (PFOSA)	A	2.50	2.41	1.076938	1.036519		-3.8	30
N-methyl perfluoroocatnesulfonamide (NMeFOSA)	A	2.50	2.45	1.173375	1.148429		-2.1	30
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	A	2.50	2.44	1.323332	1.293596		-2.2	30
N-MeFOSAA (NMeFOSAA)	A	2.50	2.34	0.3646716	0.3406645		-6.6	30
N-EtFOSAA (NEtFOSAA)	A	2.50	2.31	1.057171	0.9752727		-7.7	30
N-methylperfluorooctanesulfo namidoethanol(NMeFOSE)	A	25.0	25.4	1.119899	1.138686		1.7	30
N-ethylperfluorooctanesulfona midoethanol (NEtFOSE)	A	25.0	24.7	1.148085	1.135488		-1.1	30
Hexafluoropropylene oxide dimer acid (HFPO-DA)	A	10.0	9.30	0.8537594	0.7941178		-7.0	30
4,8-Dioxa-3H-perfluorononano ic acid (ADONA)	A	9.44	8.42	7.516548	6.701454		-10.8	30
9Cl-PF3ONS (F53B Minor)	A	9.38	9.09	5.656091	5.498685		-2.8	30
11Cl-PF3OUdS (F53B Major)	A	9.44	9.62	3.784009	3.85429		1.9	30
3-Perfluoropropyl propanoic acid (FPrPA)(3:3FTCA)	A	25.0	24.8	4.394286E-02	4.355119E-02		-0.9	30
2H,2H,3H,3H-Perfluorooctano ic acid(FPePA)(5:3FTCA)	A	125	118	0.1283846	0.1213171		-5.5	30
3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTCA)	A	125	117	0.1607822	0.1498831		-6.8	30
Perfluoro(2-ethoxyethane)sulf onic acid (PFEESA)	A	4.45	4.70	1.467067	1.548193		5.5	30
Perfluoro-3-methoxypropanoic acid (PFMPA)	A	5.00	4.93	6.968996E-02	6.877586E-02		-1.3	30
Perfluoro-4-methoxybutanoic acid (PFMBA)	A	5.00	4.55	0.6583079	0.5989485		-9.0	30
Nonafluoro-3,6-dioxaheptanoi c acid (NFDHA)	A	5.00	5.22	7.003551E-02	7.304883E-02		4.3	30
13C4-PFBA	A	10.0	10.2	1.092274	1.108838		1.5	30

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

Draft Method 1633

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	QQQ5	Calibration:	2400593
Lab File ID:	CCV5_1633_052824.d	Calibration Date:	05/28/24 00:00
Sequence:	S105135	Injection Date:	05/29/24
Lab Sample ID:	S105135-CCV5	Injection Time:	04:39

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
13C5-PFPeA	A	5.00	5.05	0.7854588	0.793556		1.0	30
13C5-PFHxA	A	2.50	2.57	1.059253	1.08693		2.6	30
13C4-PFHpA	A	2.50	2.67	1.381858	1.477018		6.9	30
13C8-PFOA	A	2.50	2.76	8.180126	9.042621		10.5	30
13C9-PFNA	A	1.25	1.28	0.7691169	0.7905528		2.8	30
13C6-PFDA	A	1.25	1.30	0.9953557	1.033506		3.8	30
13C7-PFUnA	A	1.25	1.32	0.9305727	0.9845219		5.8	30
13C2-PFDoA	A	1.25	1.21	0.9604648	0.9333796		-2.8	30
13C2-PFTeDA	A	1.25	1.35	1.295151	1.393731		7.6	30
13C3-PFBS	A	2.50	2.53	1.484657	1.503203		1.2	30
13C3-PFHxS	A	2.50	2.58	1.025978	1.05711		3.0	30
13C8-PFOS	A	2.50	2.55	0.9272679	0.9460445		2.0	30
13C2-4:2FTS	A	5.00	4.72	1.272731	1.200425		-5.7	30
13C2-6:2FTS	A	5.00	4.94	1.131247	1.117108		-1.2	30
13C2-8:2FTS	A	5.00	5.04	0.6827405	0.6875331		0.7	30
13C8-PFOSA	A	2.50	2.54	1.675551	1.70442		1.7	30
D3-NMeFOSA	A	2.50	2.39	0.547367	0.5243104		-4.2	30
D5-NEtFOSA	A	2.50	2.48	0.5572248	0.5520066		-0.9	30
D3-NMeFOSAA	A	5.00	5.36	1.857945	1.990329		7.1	30
D5-NEtFOSAA	A	5.00	5.40	0.9301541	1.005315		8.1	30
D7-NMeFOSE	A	25.0	25.1	0.50654	0.5090454		0.5	30
D9-NEtFOSE	A	25.0	26.3	0.5420359	0.5703343		5.2	30
13C3-HFPO-DA	A	10.0	10.6	0.3037858	0.3213147		5.8	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

File Not Found: Sequence\S\S105135-CCV5_CCV5_1633_052824.d.pdf

8 - FORM VIII
INTERNAL STANDARD AREA AND RT SUMMARY

Draft Method 1633

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Sequence:	S104823	Instrument:	QQQ6
		Calibration:	2400518

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Instrument Blank (S104823-IBL1)			*Lab File ID: IBL1_1633_051724.d*			*Analyzed: 05/17/24 08:57*			
13C3-PFBA	290232.3	1.742967				30 - 500		+/-0.50	
13C2-PFHxA	206008.7	3.845067				30 - 500		+/-0.50	
13C4-PFOA	34574.25	5.173				30 - 500		+/-0.50	
13C5-PFNA	169192.2	5.705283				30 - 500		+/-0.50	
13C2-PFDA	137027.1	6.180867				30 - 500		+/-0.50	
18O2-PFHxS	53604.76	5.249417				30 - 500		+/-0.50	
13C4-PFOS	47048.2	6.32205				30 - 500		+/-0.50	
Calibration Check (S104823-CCV1)			*Lab File ID: CCV1_1633_051724.d*			*Analyzed: 05/17/24 09:13*			
13C3-PFBA	274694.9	1.751283				30 - 500		+/-0.50	
13C2-PFHxA	196412.6	3.861433				30 - 500		+/-0.50	
13C4-PFOA	32141.23	5.181233				30 - 500		+/-0.50	
13C5-PFNA	160676.1	5.7053				30 - 500		+/-0.50	
13C2-PFDA	128117.8	6.180883				30 - 500		+/-0.50	
18O2-PFHxS	49525.63	5.265867				30 - 500		+/-0.50	
13C4-PFOS	41880.95	6.322067				30 - 500		+/-0.50	
Calibration Blank (S104823-CCB1)			*Lab File ID: CCB1_1633_051724.d*			*Analyzed: 05/17/24 09:32*			
13C3-PFBA	295806.7	1.751283	298525	1.751283	99	30 - 500	0.0000	+/-0.50	
13C2-PFHxA	210612	3.861433	214399	3.861433	98	30 - 500	0.0000	+/-0.50	
13C4-PFOA	34329.78	5.181217	33773	5.181233	102	30 - 500	0.0000	+/-0.50	
13C5-PFNA	171341.1	5.7053	159462	5.7053	107	30 - 500	0.0000	+/-0.50	
13C2-PFDA	139438.6	6.180883	131516	6.180883	106	30 - 500	0.0000	+/-0.50	
18O2-PFHxS	55371.06	5.25765	52053	5.265867	106	30 - 500	-0.0082	+/-0.50	
13C4-PFOS	47068.11	6.322067	43270	6.322067	109	30 - 500	0.0000	+/-0.50	
Calibration Check (S104823-CCV2)			*Lab File ID: CCV7_1633_051724.d*			*Analyzed: 05/18/24 06:12*			
13C3-PFBA	308383.2	1.734633	298525	1.751283	103	30 - 500	-0.0166	+/-0.50	
13C2-PFHxA	218985	3.845067	214399	3.861433	102	30 - 500	-0.0164	+/-0.50	
13C4-PFOA	37110.46	5.156567	33773	5.181233	110	30 - 500	-0.0247	+/-0.50	
13C5-PFNA	175652.2	5.664383	159462	5.7053	110	30 - 500	-0.0409	+/-0.50	
13C2-PFDA	136449.7	6.140117	131516	6.180883	104	30 - 500	-0.0408	+/-0.50	
18O2-PFHxS	57287.62	5.232983	52053	5.265867	110	30 - 500	-0.0329	+/-0.50	
13C4-PFOS	48283.3	6.281384	43270	6.322067	112	30 - 500	-0.0407	+/-0.50	

8 - FORM VIII
INTERNAL STANDARD AREA AND RT SUMMARY

Draft Method 1633

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Sequence:	S104823	Instrument:	QQQ6
		Calibration:	2400518

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Blank (S104823-CCB2)			*Lab File ID: CCB7_1633_051724.d*		*Analyzed: 05/18/24 06:28*				
13C3-PFBA	303170.7	1.734633	298525	1.734633	102	30 - 500	0.0000	+/-0.50	
13C2-PFHxA	215452.8	3.845067	214399	3.845067	100	30 - 500	0.0000	+/-0.50	
13C4-PFOA	35833.5	5.148366	33773	5.156567	106	30 - 500	-0.0082	+/-0.50	
13C5-PFNA	166614.1	5.672583	159462	5.664383	104	30 - 500	0.0082	+/-0.50	
13C2-PFDA	134480.6	6.140133	131516	6.140117	102	30 - 500	0.0000	+/-0.50	
18O2-PFHxS	54886.32	5.233	52053	5.232983	105	30 - 500	0.0000	+/-0.50	
13C4-PFOS	46772.13	6.289533	43270	6.281384	108	30 - 500	0.0081	+/-0.50	
Blank (B374213-BLK1)			*Lab File ID: B374213-BLK1.d*		*Analyzed: 05/18/24 06:44*				
13C3-PFBA	261228.4	1.701333	298525	1.734633	88	30 - 500	-0.0333	+/-0.50	
13C2-PFHxA	188180.3	3.836883	214399	3.845067	88	30 - 500	-0.0082	+/-0.50	
13C4-PFOA	30536.89	5.14835	33773	5.156567	90	30 - 500	-0.0082	+/-0.50	
13C5-PFNA	148271.5	5.664383	159462	5.664383	93	30 - 500	0.0000	+/-0.50	
13C2-PFDA	119295.9	6.140117	131516	6.140117	91	30 - 500	0.0000	+/-0.50	
18O2-PFHxS	48156.66	5.232983	52053	5.232983	93	30 - 500	0.0000	+/-0.50	
13C4-PFOS	40764.04	6.289516	43270	6.281384	94	30 - 500	0.0081	+/-0.50	
MRL Check (B374213-MRL1)			*Lab File ID: B374213-MRL1.d*		*Analyzed: 05/18/24 07:00*				
13C3-PFBA	299013.1	1.701333	298525	1.734633	100	30 - 500	-0.0333	+/-0.50	
13C2-PFHxA	217820.2	3.836883	214399	3.845067	102	30 - 500	-0.0082	+/-0.50	
13C4-PFOA	36476.92	5.14835	33773	5.156567	108	30 - 500	-0.0082	+/-0.50	
13C5-PFNA	173528.2	5.664383	159462	5.664383	109	30 - 500	0.0000	+/-0.50	
13C2-PFDA	140149.2	6.140117	131516	6.140117	107	30 - 500	0.0000	+/-0.50	
18O2-PFHxS	56783.62	5.232983	52053	5.232983	109	30 - 500	0.0000	+/-0.50	
13C4-PFOS	46965.38	6.289533	43270	6.281384	109	30 - 500	0.0081	+/-0.50	
LCS (B374213-BS1)			*Lab File ID: B374213-BS1.d*		*Analyzed: 05/18/24 07:15*				
13C3-PFBA	285156.9	1.701333	298525	1.734633	96	30 - 500	-0.0333	+/-0.50	
13C2-PFHxA	209607	3.8369	214399	3.845067	98	30 - 500	-0.0082	+/-0.50	
13C4-PFOA	34293.09	5.156583	33773	5.156567	102	30 - 500	0.0000	+/-0.50	
13C5-PFNA	163776.5	5.672583	159462	5.664383	103	30 - 500	0.0082	+/-0.50	
13C2-PFDA	131225.7	6.148283	131516	6.140117	100	30 - 500	0.0082	+/-0.50	
18O2-PFHxS	53620.75	5.241217	52053	5.232983	103	30 - 500	0.0082	+/-0.50	
13C4-PFOS	44315	6.289533	43270	6.281384	102	30 - 500	0.0081	+/-0.50	

8 - FORM VIII
INTERNAL STANDARD AREA AND RT SUMMARY

Draft Method 1633

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Sequence:	S104823	Instrument:	QQQ6
		Calibration:	2400518

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Matrix Spike (B374213-MS1)			*Lab File ID: B374213-MS1.d*			*Analyzed: 05/18/24 07:31*			
13C3-PFBA	287252.8	1.70965	298525	1.734633	96	30 - 500	-0.0250	+/-0.50	
13C2-PFHxA	208024.2	3.836883	214399	3.845067	97	30 - 500	-0.0082	+/-0.50	
13C4-PFOA	35062.21	5.156567	33773	5.156567	104	30 - 500	0.0000	+/-0.50	
13C5-PFNA	165094.8	5.664383	159462	5.664383	104	30 - 500	0.0000	+/-0.50	
13C2-PFDA	131524.6	6.140117	131516	6.140117	100	30 - 500	0.0000	+/-0.50	
18O2-PFHxS	54521.44	5.232983	52053	5.232983	105	30 - 500	0.0000	+/-0.50	
13C4-PFOS	45526.18	6.289516	43270	6.281384	105	30 - 500	0.0081	+/-0.50	
Matrix Spike Dup (B374213-MSD1)			*Lab File ID: B374213-MSD1.d*			*Analyzed: 05/18/24 07:47*			
13C3-PFBA	297853.5	1.701333	298525	1.734633	100	30 - 500	-0.0333	+/-0.50	
13C2-PFHxA	220493.6	3.836883	214399	3.845067	103	30 - 500	-0.0082	+/-0.50	
13C4-PFOA	36525.68	5.156567	33773	5.156567	108	30 - 500	0.0000	+/-0.50	
13C5-PFNA	174254.6	5.672567	159462	5.664383	109	30 - 500	0.0082	+/-0.50	
13C2-PFDA	139897.4	6.140117	131516	6.140117	106	30 - 500	0.0000	+/-0.50	
18O2-PFHxS	56829.11	5.232983	52053	5.232983	109	30 - 500	0.0000	+/-0.50	
13C4-PFOS	48095.93	6.289533	43270	6.281384	111	30 - 500	0.0081	+/-0.50	
CG-2 (24E1437-02)			*Lab File ID: 24E1437-02.d*			*Analyzed: 05/18/24 09:52*			
13C3-PFBA	268285	1.70965	298525	1.734633	90	30 - 500	-0.0250	+/-0.50	
13C2-PFHxA	195592.3	3.8369	214399	3.845067	91	30 - 500	-0.0082	+/-0.50	
13C4-PFOA	32590.12	5.14835	33773	5.156567	96	30 - 500	-0.0082	+/-0.50	
13C5-PFNA	150704.7	5.6644	159462	5.664383	95	30 - 500	0.0000	+/-0.50	
13C2-PFDA	114795.8	6.140133	131516	6.140117	87	30 - 500	0.0000	+/-0.50	
18O2-PFHxS	52202.46	5.233	52053	5.232983	100	30 - 500	0.0000	+/-0.50	
13C4-PFOS	38294.67	6.289533	43270	6.281384	89	30 - 500	0.0081	+/-0.50	
B1A (24E1437-04)			*Lab File ID: 24E1437-04.d*			*Analyzed: 05/18/24 10:08*			
13C3-PFBA	289226.4	1.70965	298525	1.734633	97	30 - 500	-0.0250	+/-0.50	
13C2-PFHxA	212642.8	3.82855	214399	3.845067	99	30 - 500	-0.0165	+/-0.50	
13C4-PFOA	34288.58	5.148334	33773	5.156567	102	30 - 500	-0.0082	+/-0.50	
13C5-PFNA	165101.5	5.664383	159462	5.664383	104	30 - 500	0.0000	+/-0.50	
13C2-PFDA	135890.3	6.140117	131516	6.140117	103	30 - 500	0.0000	+/-0.50	
18O2-PFHxS	54684.51	5.224767	52053	5.232983	105	30 - 500	-0.0082	+/-0.50	
13C4-PFOS	47731.74	6.281384	43270	6.281384	110	30 - 500	0.0000	+/-0.50	

8 - FORM VIII
INTERNAL STANDARD AREA AND RT SUMMARY

Draft Method 1633

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Sequence:	S104823	Instrument:	QQQ6
		Calibration:	2400518

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
SB1A (24E1437-06)			*Lab File ID: 24E1437-06.d*			*Analyzed: 05/18/24 10:24*			
13C3-PFBA	293566.5	1.701333	298525	1.734633	98	30 - 500	-0.0333	+/-0.50	
13C2-PFHxA	212913	3.836883	214399	3.845067	99	30 - 500	-0.0082	+/-0.50	
13C4-PFOA	35448.73	5.14835	33773	5.156567	105	30 - 500	-0.0082	+/-0.50	
13C5-PFNA	168224.9	5.664383	159462	5.664383	105	30 - 500	0.0000	+/-0.50	
13C2-PFDA	134680.9	6.140117	131516	6.140117	102	30 - 500	0.0000	+/-0.50	
18O2-PFHxS	56472.05	5.232983	52053	5.232983	108	30 - 500	0.0000	+/-0.50	
13C4-PFOS	46156.54	6.281384	43270	6.281384	107	30 - 500	0.0000	+/-0.50	
Calibration Check (S104823-CCV3)			*Lab File ID: CCV8_1633_051724.d*			*Analyzed: 05/18/24 10:39*			
13C3-PFBA	306635.1	1.734633	298525	1.734633	103	30 - 500	0.0000	+/-0.50	
13C2-PFHxA	220200.2	3.836883	214399	3.845067	103	30 - 500	-0.0082	+/-0.50	
13C4-PFOA	37281.13	5.14835	33773	5.156567	110	30 - 500	-0.0082	+/-0.50	
13C5-PFNA	178774.5	5.664383	159462	5.664383	112	30 - 500	0.0000	+/-0.50	
13C2-PFDA	141481.1	6.140117	131516	6.140117	108	30 - 500	0.0000	+/-0.50	
18O2-PFHxS	56560.51	5.232983	52053	5.232983	109	30 - 500	0.0000	+/-0.50	
13C4-PFOS	49521.74	6.281384	43270	6.281384	114	30 - 500	0.0000	+/-0.50	
Calibration Blank (S104823-CCB3)			*Lab File ID: CCB8_1633_051724.d*			*Analyzed: 05/18/24 10:55*			
13C3-PFBA	298273.8	1.734633	298525	1.734633	100	30 - 500	0.0000	+/-0.50	
13C2-PFHxA	215514.8	3.82855	214399	3.836883	101	30 - 500	-0.0083	+/-0.50	
13C4-PFOA	35024.73	5.156567	33773	5.14835	104	30 - 500	0.0082	+/-0.50	
13C5-PFNA	171592.1	5.672567	159462	5.664383	108	30 - 500	0.0082	+/-0.50	
13C2-PFDA	133914.6	6.140117	131516	6.140117	102	30 - 500	0.0000	+/-0.50	
18O2-PFHxS	54083.87	5.2412	52053	5.232983	104	30 - 500	0.0082	+/-0.50	
13C4-PFOS	45748.25	6.289516	43270	6.281384	106	30 - 500	0.0081	+/-0.50	
SB4A (24E1437-12)			*Lab File ID: 24E1437-12.d*			*Analyzed: 05/18/24 11:11*			
13C3-PFBA	290958.4	1.70965	298525	1.734633	97	30 - 500	-0.0250	+/-0.50	
13C2-PFHxA	210789	3.82855	214399	3.836883	98	30 - 500	-0.0083	+/-0.50	
13C4-PFOA	34665.11	5.14835	33773	5.14835	103	30 - 500	0.0000	+/-0.50	
13C5-PFNA	169458.2	5.664383	159462	5.664383	106	30 - 500	0.0000	+/-0.50	
13C2-PFDA	131259	6.140117	131516	6.140117	100	30 - 500	0.0000	+/-0.50	
18O2-PFHxS	55873.87	5.232983	52053	5.232983	107	30 - 500	0.0000	+/-0.50	
13C4-PFOS	44578.06	6.289516	43270	6.281384	103	30 - 500	0.0081	+/-0.50	

8 - FORM VIII
INTERNAL STANDARD AREA AND RT SUMMARY

Draft Method 1633

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Sequence:	S104823	Instrument:	QQQ6
		Calibration:	2400518

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
SB7 (24E1437-17)			*Lab File ID: 24E1437-17.d*			*Analyzed: 05/18/24 11:26*			
13C3-PFBA	298976.5	1.70965	298525	1.734633	100	30 - 500	-0.0250	+/-0.50	
13C2-PFHxA	220819.7	3.82855	214399	3.836883	103	30 - 500	-0.0083	+/-0.50	
13C4-PFOA	36893.11	5.14835	33773	5.14835	109	30 - 500	0.0000	+/-0.50	
13C5-PFNA	168337	5.664383	159462	5.664383	106	30 - 500	0.0000	+/-0.50	
13C2-PFDA	134173.3	6.140117	131516	6.140117	102	30 - 500	0.0000	+/-0.50	
18O2-PFHxS	57177.75	5.232983	52053	5.232983	110	30 - 500	0.0000	+/-0.50	
13C4-PFOS	48986.18	6.281384	43270	6.281384	113	30 - 500	0.0000	+/-0.50	
Calibration Check (S104823-CCV4)			*Lab File ID: CCV9_1633_051724.d*			*Analyzed: 05/18/24 11:58*			
13C3-PFBA	306932.8	1.74295	298525	1.734633	103	30 - 500	0.0083	+/-0.50	
13C2-PFHxA	221849.5	3.845067	214399	3.836883	103	30 - 500	0.0082	+/-0.50	
13C4-PFOA	36569.34	5.15655	33773	5.14835	108	30 - 500	0.0082	+/-0.50	
13C5-PFNA	177675.3	5.672567	159462	5.664383	111	30 - 500	0.0082	+/-0.50	
13C2-PFDA	136824.9	6.1401	131516	6.140117	104	30 - 500	0.0000	+/-0.50	
18O2-PFHxS	56438.93	5.2412	52053	5.232983	108	30 - 500	0.0082	+/-0.50	
13C4-PFOS	49437.23	6.281384	43270	6.281384	114	30 - 500	0.0000	+/-0.50	
Calibration Blank (S104823-CCB4)			*Lab File ID: CCB9_1633_051724.d*			*Analyzed: 05/18/24 12:13*			
13C3-PFBA	297738	1.734633	298525	1.74295	100	30 - 500	-0.0083	+/-0.50	
13C2-PFHxA	217799	3.836883	214399	3.845067	102	30 - 500	-0.0082	+/-0.50	
13C4-PFOA	34850.32	5.14835	33773	5.15655	103	30 - 500	-0.0082	+/-0.50	
13C5-PFNA	168520.5	5.664383	159462	5.672567	106	30 - 500	-0.0082	+/-0.50	
13C2-PFDA	131693.2	6.140117	131516	6.1401	100	30 - 500	0.0000	+/-0.50	
18O2-PFHxS	54421.72	5.232983	52053	5.2412	105	30 - 500	-0.0082	+/-0.50	
13C4-PFOS	46030.17	6.281384	43270	6.281384	106	30 - 500	0.0000	+/-0.50	

8 - FORM VIII
INTERNAL STANDARD AREA AND RT SUMMARY

Draft Method 1633

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Sequence:	S105135	Instrument:	QQQ5
		Calibration:	2400593

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Instrument Blank (S105135-IBL1)			*Lab File ID: IBL1_1633_052824.d*			*Analyzed: 05/28/24 12:34*			
13C3-PFBA	108894.1	2.625483				30 - 500		+/-0.50	
13C2-PFHxA	123215	5.109883				30 - 500		+/-0.50	
13C4-PFOA	18837.58	6.328617				30 - 500		+/-0.50	
13C5-PFNA	99034.34	6.812067				30 - 500		+/-0.50	
13C2-PFDA	67929.11	7.269767				30 - 500		+/-0.50	
18O2-PFHxS	40383.59	6.503633				30 - 500		+/-0.50	
13C4-PFOS	38124.7	7.500633				30 - 500		+/-0.50	
Calibration Check (S105135-CCV1)			*Lab File ID: CCV1_1633_052824.d*			*Analyzed: 05/28/24 13:24*			
13C3-PFBA	114443.1	2.633817				30 - 500		+/-0.50	
13C2-PFHxA	134966	5.109883				30 - 500		+/-0.50	
13C4-PFOA	20988.03	6.328617				30 - 500		+/-0.50	
13C5-PFNA	105687	6.812067				30 - 500		+/-0.50	
13C2-PFDA	74304.07	7.2616				30 - 500		+/-0.50	
18O2-PFHxS	41544.38	6.503633				30 - 500		+/-0.50	
13C4-PFOS	40724.23	7.500633				30 - 500		+/-0.50	
Calibration Blank (S105135-CCB1)			*Lab File ID: CCB1_1633_052824.d*			*Analyzed: 05/28/24 13:46*			
13C3-PFBA	115558.8	2.633817	120872	2.633817	96	30 - 500	0.0000	+/-0.50	
13C2-PFHxA	124789.9	5.11805	147703	5.109883	84	30 - 500	0.0082	+/-0.50	
13C4-PFOA	19139.33	6.3622	22370	6.328617	86	30 - 500	0.0336	+/-0.50	
13C5-PFNA	89884.63	6.828417	114022	6.812067	79	30 - 500	0.0164	+/-0.50	
13C2-PFDA	65514.88	7.277916	78594	7.2616	83	30 - 500	0.0163	+/-0.50	
18O2-PFHxS	36815.48	6.528133	44662	6.503633	82	30 - 500	0.0245	+/-0.50	
13C4-PFOS	37346.15	7.508983	42797	7.500633	87	30 - 500	0.0084	+/-0.50	
Calibration Check (S105135-CCV2)			*Lab File ID: CCV2_1633_052824.d*			*Analyzed: 05/28/24 16:38*			
13C3-PFBA	117498.2	2.625483	120872	2.633817	97	30 - 500	-0.0083	+/-0.50	
13C2-PFHxA	149946.5	5.109883	147703	5.109883	102	30 - 500	0.0000	+/-0.50	
13C4-PFOA	23693.29	6.328617	22370	6.328617	106	30 - 500	0.0000	+/-0.50	
13C5-PFNA	122050.5	6.803884	114022	6.812067	107	30 - 500	-0.0082	+/-0.50	
13C2-PFDA	83629.68	7.2616	78594	7.2616	106	30 - 500	0.0000	+/-0.50	
18O2-PFHxS	46732.59	6.495467	44662	6.503633	105	30 - 500	-0.0082	+/-0.50	
13C4-PFOS	45411.11	7.49245	42797	7.500633	106	30 - 500	-0.0082	+/-0.50	

8 - FORM VIII
INTERNAL STANDARD AREA AND RT SUMMARY

Draft Method 1633

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Sequence:	S105135	Instrument:	QQQ5
		Calibration:	2400593

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Blank (S105135-CCB2)			*Lab File ID: CCB2_1633_052824.d*		*Analyzed: 05/28/24 16:54*				
13C3-PFBA	113038.7	2.625483	120872	2.625483	94	30 - 500	0.0000	+/-0.50	
13C2-PFHxA	131668.3	5.109883	147703	5.109883	89	30 - 500	0.0000	+/-0.50	
13C4-PFOA	20300.05	6.328617	22370	6.328617	91	30 - 500	0.0000	+/-0.50	
13C5-PFNA	107023.9	6.803884	114022	6.803884	94	30 - 500	0.0000	+/-0.50	
13C2-PFDA	70233.55	7.2616	78594	7.2616	89	30 - 500	0.0000	+/-0.50	
18O2-PFHxS	40617.02	6.495467	44662	6.495467	91	30 - 500	0.0000	+/-0.50	
13C4-PFOS	40183.43	7.49245	42797	7.49245	94	30 - 500	0.0000	+/-0.50	
Blank (B374779-BLK1)			*Lab File ID: B374779-BLK1.d*		*Analyzed: 05/28/24 17:10*				
13C3-PFBA	125981.5	2.608833	120872	2.625483	104	30 - 500	-0.0166	+/-0.50	
13C2-PFHxA	150223.9	5.109883	147703	5.109883	102	30 - 500	0.0000	+/-0.50	
13C4-PFOA	22227.21	6.328617	22370	6.328617	99	30 - 500	0.0000	+/-0.50	
13C5-PFNA	115270.9	6.803884	114022	6.803884	101	30 - 500	0.0000	+/-0.50	
13C2-PFDA	78763.91	7.2616	78594	7.2616	100	30 - 500	0.0000	+/-0.50	
18O2-PFHxS	44557.47	6.495467	44662	6.495467	100	30 - 500	0.0000	+/-0.50	
13C4-PFOS	44285.55	7.49245	42797	7.49245	103	30 - 500	0.0000	+/-0.50	
MRL Check (B374779-MRL1)			*Lab File ID: B374779-MRL1.d*		*Analyzed: 05/28/24 17:26*				
13C3-PFBA	137675.5	2.617167	120872	2.625483	114	30 - 500	-0.0083	+/-0.50	
13C2-PFHxA	167349.3	5.109883	147703	5.109883	113	30 - 500	0.0000	+/-0.50	
13C4-PFOA	24870.44	6.328617	22370	6.328617	111	30 - 500	0.0000	+/-0.50	
13C5-PFNA	128507.9	6.803884	114022	6.803884	113	30 - 500	0.0000	+/-0.50	
13C2-PFDA	86571.31	7.2616	78594	7.2616	110	30 - 500	0.0000	+/-0.50	
18O2-PFHxS	51092.64	6.495467	44662	6.495467	114	30 - 500	0.0000	+/-0.50	
13C4-PFOS	49099.21	7.49245	42797	7.49245	115	30 - 500	0.0000	+/-0.50	
LCS (B374779-BS1)			*Lab File ID: B374779-BS1.d*		*Analyzed: 05/28/24 17:41*				
13C3-PFBA	130092.8	2.617167	120872	2.625483	108	30 - 500	-0.0083	+/-0.50	
13C2-PFHxA	153159.8	5.109883	147703	5.109883	104	30 - 500	0.0000	+/-0.50	
13C4-PFOA	22508.09	6.328617	22370	6.328617	101	30 - 500	0.0000	+/-0.50	
13C5-PFNA	118969.9	6.803884	114022	6.803884	104	30 - 500	0.0000	+/-0.50	
13C2-PFDA	81626.93	7.2616	78594	7.2616	104	30 - 500	0.0000	+/-0.50	
18O2-PFHxS	47476.82	6.495467	44662	6.495467	106	30 - 500	0.0000	+/-0.50	
13C4-PFOS	45562.91	7.49245	42797	7.49245	106	30 - 500	0.0000	+/-0.50	

8 - FORM VIII
INTERNAL STANDARD AREA AND RT SUMMARY

Draft Method 1633

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Sequence:	S105135	Instrument:	QQQ5
		Calibration:	2400593

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
DUP (24E1437-19RE1)			*Lab File ID: 24E1437-19RE1.d*		*Analyzed: 05/28/24 20:02*				
13C3-PFBA	124090.5	2.608833	120872	2.625483	103	30 - 500	-0.0166	+/-0.50	
13C2-PFHxA	150874.8	5.109883	147703	5.109883	102	30 - 500	0.0000	+/-0.50	
13C4-PFOA	22850.95	6.328617	22370	6.328617	102	30 - 500	0.0000	+/-0.50	
13C5-PFNA	124182.9	6.803884	114022	6.803884	109	30 - 500	0.0000	+/-0.50	
13C2-PFDA	82014.05	7.253433	78594	7.2616	104	30 - 500	-0.0082	+/-0.50	
18O2-PFHxS	47696.04	6.495467	44662	6.495467	107	30 - 500	0.0000	+/-0.50	
13C4-PFOS	48607.15	7.484267	42797	7.49245	114	30 - 500	-0.0082	+/-0.50	
Calibration Check (S105135-CCV3)			*Lab File ID: CCV3_1633_052824.d*		*Analyzed: 05/28/24 21:36*				
13C3-PFBA	128922.7	2.625483	120872	2.625483	107	30 - 500	0.0000	+/-0.50	
13C2-PFHxA	156026	5.109883	147703	5.109883	106	30 - 500	0.0000	+/-0.50	
13C4-PFOA	24088.71	6.328617	22370	6.328617	108	30 - 500	0.0000	+/-0.50	
13C5-PFNA	125247.5	6.803884	114022	6.803884	110	30 - 500	0.0000	+/-0.50	
13C2-PFDA	86359.7	7.253433	78594	7.2616	110	30 - 500	-0.0082	+/-0.50	
18O2-PFHxS	48252.29	6.495467	44662	6.495467	108	30 - 500	0.0000	+/-0.50	
13C4-PFOS	47374.11	7.484267	42797	7.49245	111	30 - 500	-0.0082	+/-0.50	
Calibration Blank (S105135-CCB3)			*Lab File ID: CCB3_1633_052824.d*		*Analyzed: 05/28/24 21:52*				
13C3-PFBA	114213.2	2.625483	120872	2.625483	94	30 - 500	0.0000	+/-0.50	
13C2-PFHxA	133200	5.109883	147703	5.109883	90	30 - 500	0.0000	+/-0.50	
13C4-PFOA	20595.65	6.328617	22370	6.328617	92	30 - 500	0.0000	+/-0.50	
13C5-PFNA	107917.7	6.803884	114022	6.803884	95	30 - 500	0.0000	+/-0.50	
13C2-PFDA	73507.39	7.253433	78594	7.253433	94	30 - 500	0.0000	+/-0.50	
18O2-PFHxS	42458.41	6.495467	44662	6.495467	95	30 - 500	0.0000	+/-0.50	
13C4-PFOS	40599.54	7.49245	42797	7.484267	95	30 - 500	0.0082	+/-0.50	
Calibration Check (S105135-CCV4)			*Lab File ID: CCV4_1633_052824.d*		*Analyzed: 05/29/24 01:47*				
13C3-PFBA	120522.6	2.625483	120872	2.625483	100	30 - 500	0.0000	+/-0.50	
13C2-PFHxA	151496.4	5.109883	147703	5.109883	103	30 - 500	0.0000	+/-0.50	
13C4-PFOA	23361.26	6.32045	22370	6.328617	104	30 - 500	-0.0082	+/-0.50	
13C5-PFNA	117987.9	6.7957	114022	6.803884	103	30 - 500	-0.0082	+/-0.50	
13C2-PFDA	83119.21	7.245283	78594	7.253433	106	30 - 500	-0.0082	+/-0.50	
18O2-PFHxS	48278.14	6.495467	44662	6.495467	108	30 - 500	0.0000	+/-0.50	
13C4-PFOS	46950.86	7.484267	42797	7.484267	110	30 - 500	0.0000	+/-0.50	

8 - FORM VIII
INTERNAL STANDARD AREA AND RT SUMMARY

Draft Method 1633

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Sequence:	S105135	Instrument:	QQQ5
		Calibration:	2400593

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Blank (S105135-CCB4)			*Lab File ID: CCB4_1633_052824.d*		*Analyzed: 05/29/24 02:02*				
13C3-PFBA	111498.4	2.625483	120872	2.625483	92	30 - 500	0.0000	+/-0.50	
13C2-PFHxA	132694.7	5.109883	147703	5.109883	90	30 - 500	0.0000	+/-0.50	
13C4-PFOA	19919.14	6.328617	22370	6.32045	89	30 - 500	0.0082	+/-0.50	
13C5-PFNA	105940.7	6.803884	114022	6.7957	93	30 - 500	0.0082	+/-0.50	
13C2-PFDA	73028.16	7.253433	78594	7.245283	93	30 - 500	0.0082	+/-0.50	
18O2-PFHxS	42699.85	6.495467	44662	6.495467	96	30 - 500	0.0000	+/-0.50	
13C4-PFOS	39444.18	7.484267	42797	7.484267	92	30 - 500	0.0000	+/-0.50	
Calibration Check (S105135-CCV5)			*Lab File ID: CCV5_1633_052824.d*		*Analyzed: 05/29/24 04:39*				
13C3-PFBA	122199.6	2.633817	120872	2.625483	101	30 - 500	0.0083	+/-0.50	
13C2-PFHxA	150743.8	5.109883	147703	5.109883	102	30 - 500	0.0000	+/-0.50	
13C4-PFOA	22814.38	6.32045	22370	6.32045	102	30 - 500	0.0000	+/-0.50	
13C5-PFNA	123992.3	6.7957	114022	6.7957	109	30 - 500	0.0000	+/-0.50	
13C2-PFDA	87745.7	7.245283	78594	7.245283	112	30 - 500	0.0000	+/-0.50	
18O2-PFHxS	48027.7	6.495467	44662	6.495467	108	30 - 500	0.0000	+/-0.50	
13C4-PFOS	47589.21	7.484267	42797	7.484267	111	30 - 500	0.0000	+/-0.50	
Calibration Blank (S105135-CCB5)			*Lab File ID: CCB5_1633_052824.d*		*Analyzed: 05/29/24 04:55*				
13C3-PFBA	108472.2	2.625483	120872	2.633817	90	30 - 500	-0.0083	+/-0.50	
13C2-PFHxA	135480	5.109883	147703	5.109883	92	30 - 500	0.0000	+/-0.50	
13C4-PFOA	20158.78	6.32045	22370	6.32045	90	30 - 500	0.0000	+/-0.50	
13C5-PFNA	106257.1	6.803884	114022	6.7957	93	30 - 500	0.0082	+/-0.50	
13C2-PFDA	74204.02	7.245283	78594	7.245283	94	30 - 500	0.0000	+/-0.50	
18O2-PFHxS	42522.86	6.495467	44662	6.495467	95	30 - 500	0.0000	+/-0.50	
13C4-PFOS	40466.16	7.484267	42797	7.484267	95	30 - 500	0.0000	+/-0.50	

QC DATA

1 - FORM I
ANALYSIS DATA SHEET

Blank

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374213-BLK1	File ID:	B374213-BLK1.d
Sampled:		Prepared:	05/15/24 00:00	Analyzed:	05/18/24 06:44
Solids:		Preparation:	Draft Method 1633	Dilution:	
Initial/Final:	5.148 g / 5 mL				
Batch:	B374213	Sequence:	S104823	Calibration:	2400518
Instrument:	QQQ6				
Column:	1				

CAS NO.	COMPOUND	CONC. (µg/kg wet)	MDL	RL	Q
375-22-4	Perfluorobutanoic acid (PFBA)		0.31	0.78	
2706-90-3	Perfluoropentanoic acid (PFPeA)		0.044	0.39	
307-24-4	Perfluorohexanoic acid (PFHxA)		0.032	0.19	
375-85-9	Perfluoroheptanoic acid (PFHpA)		0.014	0.19	
335-67-1	Perfluorooctanoic acid (PFOA)		0.030	0.19	
375-95-1	Perfluorononanoic acid (PFNA)		0.013	0.19	
335-76-2	Perfluorodecanoic acid (PFDA)		0.017	0.19	
2058-94-8	Perfluoroundecanoic acid (PFUnA)		0.023	0.19	
307-55-1	Perfluorododecanoic acid (PFDoA)		0.021	0.19	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)		0.022	0.19	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)		0.020	0.19	
375-73-5	Perfluorobutanesulfonic acid (PFBS)		0.020	0.19	
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)		0.025	0.19	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)		0.076	0.19	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)		0.021	0.19	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)		0.031	0.19	
68259-12-1	Perfluorononanesulfonic acid (PFNS)		0.022	0.19	
335-77-3	Perfluorodecanesulfonic acid (PFDS)		0.031	0.19	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)		0.030	0.19	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (		0.068	0.78	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid ((		0.49	0.78	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (		0.090	0.78	
754-91-6	Perfluorooctanesulfonamide (PFOSA)		0.030	0.19	
31506-32-8	N-methyl perfluoroocatnesulfonamide (NMeF		0.024	0.19	
4151-50-2	N-ethyl perfluorooctanesulfonamide (NEtFOS		0.023	0.19	
2355-31-9	N-MeFOSAA (NMeFOSAA)		0.035	0.19	V-05
2991-50-6	N-EtFOSAA (NEtFOSAA)		0.029	0.19	
24448-09-7	N-methylperfluorooctanesulfonamidoethanol(		0.21	1.9	
1691-99-2	N-ethylperfluorooctanesulfonamidoethanol (N		0.21	1.9	

1 - FORM I
ANALYSIS DATA SHEET

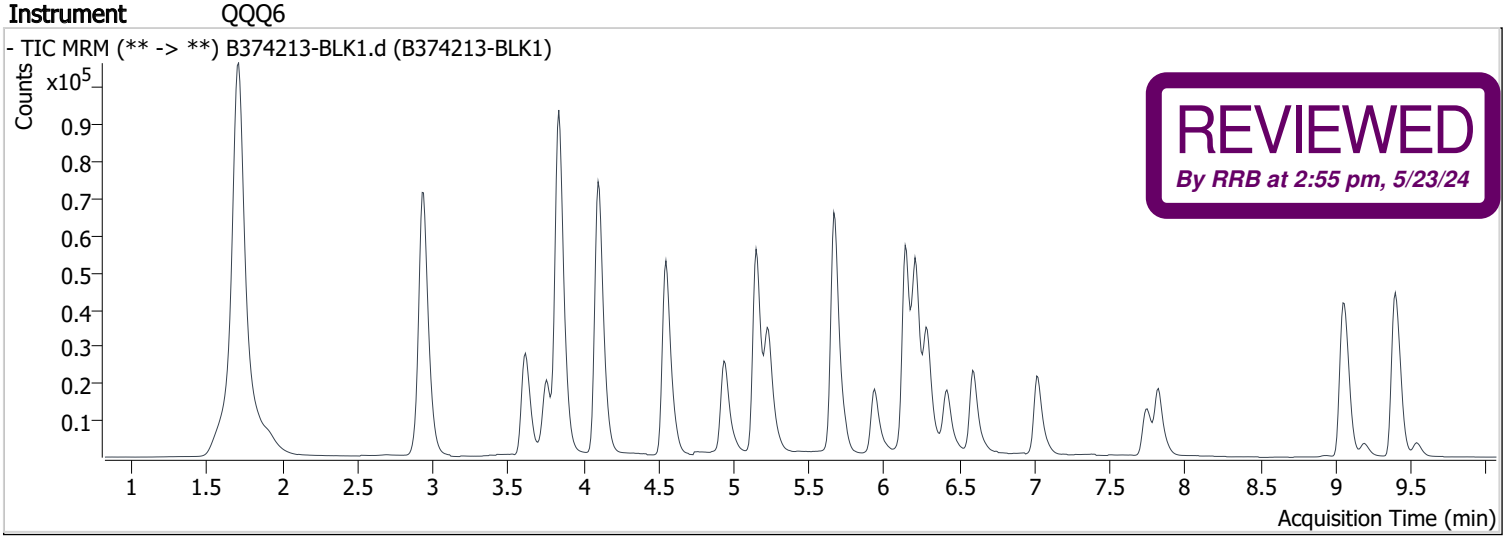
Blank

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374213-BLK1	File ID:	B374213-BLK1.d
Sampled:		Prepared:	05/15/24 00:00	Analyzed:	05/18/24 06:44
Solids:		Preparation:	Draft Method 1633	Dilution:	
Initial/Final:	5.148 g / 5 mL				
Batch:	B374213	Sequence:	S104823	Calibration:	2400518
Instrument:	QQQ6				
Column:	1				

CAS NO.	COMPOUND	CONC. (µg/kg wet)	MDL	RL	Q
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPC		0.050	0.78	
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADON/		0.058	0.78	
756426-58-1	9Cl-PF3ONS (F53B Minor)		0.056	0.78	
763051-92-9	11Cl-PF3OUdS (F53B Major)		0.086	0.78	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)(3:3		0.18	1.9	
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)		1.3	9.7	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)(7:3		1.5	9.7	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEE		0.031	0.39	
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)		0.032	0.39	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)		0.032	0.39	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)		0.059	0.39	

Quantitative Analysis Sample Report

Batch Path	R:\Data\MAY2024\051724\QuantResults\B374213.batch.bin		
Analysis Time	5/23/2024 5:54 AM	**Last Calib Update**	5/9/2024 9:16 AM
Acq. Time	5/18/2024 6:44 AM	**Data File**	B374213-BLK1.d
Sample Type	Sample	**Sample Name**	B374213-BLK1
Dilution	1	**Acq. Method**	1633_ACQUISITION_01.m
Sample Comment		**Processing method**	1633_050824.m
Instrument	QQQ6		



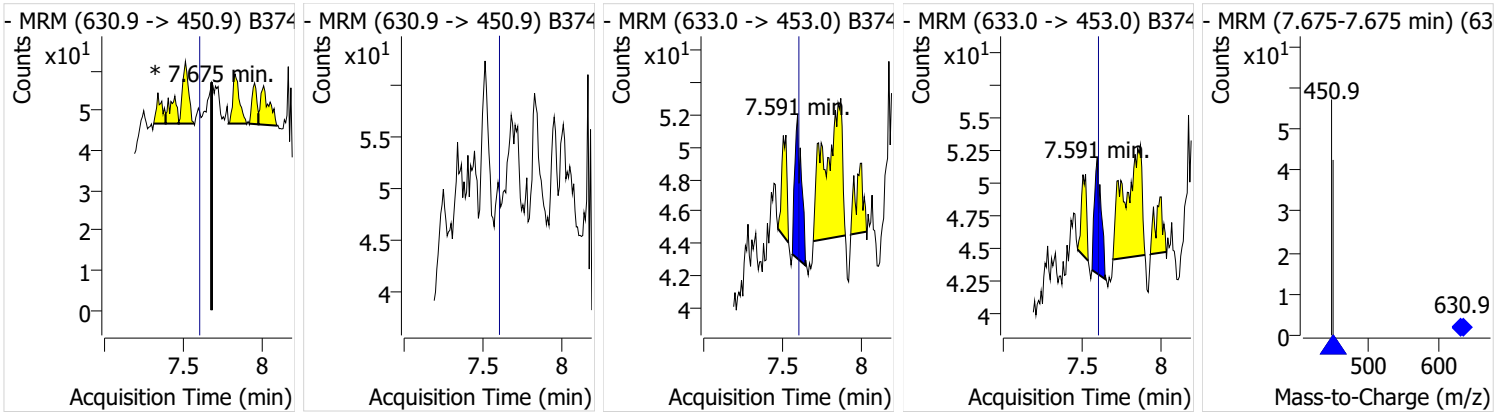
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
11Cl-PF3OUdS	7.675	0			13C3-HFPODA - ISTD	4.103	203848	-	ng/ml	✔	1	ALB 5/22/24
633.0 -> 453.0				*								
3:3FTCA	2.355	0			13C5-PFPeA - ISTD	2.928	324859	-	ng/ml	✔	1	ALB 5/22/24
241.0 -> 117.0				*								
4:2FTS	3.622	0			13C2-4:2FTS - ISTD	3.614	32259	-	ng/ml	✔	1	ALB 5/22/24
327.0 -> 80.9				*								
5:3FTCA	4.368	0			13C5-PFHxA - ISTD	3.836	173878	-	ng/ml	✔	1	ALB 5/22/24
341.0 -> 217.0				*								
6:2FTS	4.942	434	26.13		13C2-6:2FTS - ISTD	4.933	23543	0.0272	ng/ml	✔	3	ALB 5/22/24
427.0 -> 80.9			8.28	26.5								
7:3FTCA	5.683	0			13C5-PFHxA - ISTD	3.836	173878	-	ng/ml	✔	1	ALB 5/22/24
441.0 -> 317.0				*								
8:2FTS	6.041	0			13C2-8:2FTS - ISTD	5.934	18812	-	ng/ml	✔	1	ALB 5/22/24
527.0 -> 81.0				*								
9Cl-PF3ONS	6.671	0			13C3-HFPODA - ISTD	4.103	203848	-	ng/ml	✔	1	ALB 5/22/24
533.0 -> 353.0				*								
ADONA	4.781	0			13C3-HFPODA - ISTD	4.103	203848	-	ng/ml	✔	1	ALB 5/22/24
377.0 -> 85.1				*								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA	4.104	0			13C3-HFPODA - ISTD	4.103	203848	-	ng/ml	✔	1	ALB 5/22/24
285.0 -> 184.9				*								
NEtFOSA	9.548	0			D5-NEtFOSA - ISTD	9.538	13565	-	ng/ml	✔	1	ALB 5/22/24
526.0 -> 219.0				*								
NEtFOSAA	6.472	0			D5-NEtFOSAA - ISTD	6.414	69259	-	ng/ml	✔	1	ALB 5/22/24
584.0 -> 526.0				*								
NEtFOSE	9.428	85	27.53		D9-NEtFOSE - ISTD	9.394	186640	0.0102	ng/ml	✔	3	ALB 5/22/24
NFDHA	3.758	0			13C5-PFHxA - ISTD	3.836	173878	-	ng/ml	✔	1	ALB 5/22/24
295.0 -> 85.0				*								
NMeFOSA	9.228	0			D3-NMeFOSA - ISTD	9.193	13052	-	ng/ml	✔	1	ALB 5/22/24
512.0 -> 219.0				*								
NMeFOSAA	6.244	0			D3-NMeFOSAA - ISTD	6.211	169131	-	ng/ml	✔	1	ALB 5/22/24
570.0 -> 418.9				*								
NMeFOSE	9.066	58	38.20		D7-NMeFOSE - ISTD	9.049	177648	0.0075	ng/ml			
PFBA	1.712	5846	169.89		13C4-PFBA - ISTD	1.707	514499	0.1231	ng/ml	✔	3	ALB 5/22/24
PFBS	3.766	0			13C3-PFBS - ISTD	3.757	62280	-	ng/ml	✔	1	ALB 5/22/24
298.9 -> 98.8				*								
PFDA	6.181	0			13C6-PFDA - ISTD	6.140	106837	-	ng/ml	✔	1	ALB 5/22/24
513.0 -> 219.0				*								
PFDoA	7.020	951	23.58		13C2-PFDoA - ISTD	7.011	87442	0.0131	ng/ml	✔	3	ALB 5/22/24
613.0 -> 319.0			11.63	***4.0**								
PFDoS	8.120	0			13C8-PFOS - ISTD	6.289	35323	-	ng/ml	✔	1	ALB 5/22/24
698.9 -> 99.0				*								
PFDS	7.205	0			13C8-PFOS - ISTD	6.289	35323	-	ng/ml	✔	1	ALB 5/22/24
599.0 -> 98.8				*								
PFEESA	4.181	0			13C5-PFHxA - ISTD	3.836	173878	-	ng/ml	✔	1	ALB 5/22/24
315.0 -> 83.0				*								
PFHpA	4.558	0			13C4-PFHpA - ISTD	4.549	213778	-	ng/ml	✔	1	ALB 5/22/24
362.9 -> 169.0				*								
PFHpS	5.881	0			13C8-PFOS - ISTD	6.289	35323	-	ng/ml	✔	1	ALB 5/22/24
449.0 -> 98.8				*								

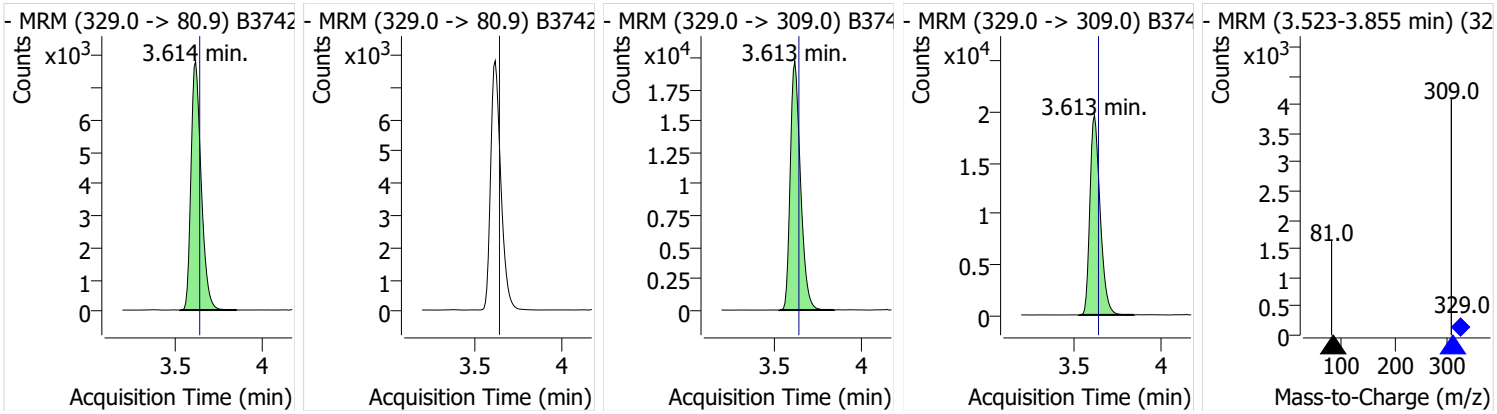
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFHxA	3.830	0			13C5-PFHxA - ISTD	3.836	173878	-	ng/ml	✔	1	ALB 5/22/24
313.0 -> 118.9				*								
PFHxS	5.243	0			13C3-PFHxS - ISTD	5.234	43692	-	ng/ml	✔	1	ALB 5/22/24
398.9 -> 99.0				*								
PFMBA	3.246	0			13C5-PFPeA - ISTD	2.928	324859	-	ng/ml	✔	1	ALB 5/22/24
PFMPA	2.258	0			13C5-PFPeA - ISTD	2.928	324859	-	ng/ml	✔	1	ALB 5/22/24
PFNA	5.657	0			13C9-PFNA - ISTD	5.664	116592	-	ng/ml	✔	1	ALB 5/22/24
463.0 -> 219.0				*								
PFNS	6.851	0			13C8-PFOS - ISTD	6.289	35323	-	ng/ml	✔	1	ALB 5/22/24
549.0 -> 98.8				*								
PFOA	5.050	0			13C8-PFOA - ISTD	5.148	193894	-	ng/ml	✔	1	ALB 5/22/24
413.0 -> 169.0				*								
PFOS	6.298	0			13C8-PFOS - ISTD	6.289	35323	-	ng/ml	✔	1	ALB 5/22/24
499.0 -> 99.0				*								
PFOSA	7.736	0			13C8-PFOSA - ISTD	7.751	54343	-	ng/ml	✔	1	ALB 5/22/24
497.9 -> 478.0				*								
PFPeA	2.937	770	12.01		13C5-PFPeA - ISTD	2.928	324859	0.0117	ng/ml	✔	3	ALB 5/22/24
263.0 -> 69.0			4.50	0.4								
PFPeS	4.641	0			13C3-PFHxS - ISTD	5.234	43692	-	ng/ml	✔	1	ALB 5/22/24
349.0 -> 98.9				*								
PFTeDA	7.820	0			13C2-PFTeDA - ISTD	7.819	67815	-	ng/ml	✔	1	ALB 5/22/24
713.0 -> 168.9				*								
PFTrDA	7.423	278	10.87		13C2-PFDoA - ISTD	7.011	87442	0.0045	ng/ml	✔		
663.0 -> 168.9			42.13	16.7								
PFUnA	6.596	0			13C7-PFUnA - ISTD	6.586	90540	-	ng/ml	✔	1	ALB 5/22/24
563.0 -> 269.1				*								
TDCA	6.274	174	27.83					-	ng/ml			
499.0 -> 99.0			16.35	27.9								
13C2-8:2FTS	5.934	18812	4509.43		18O2-PFHxS	5.233	48157	5.9430	ng/ml			
529.0 -> 509.0			18726.70	276.7								
13C2-4:2FTS	3.614	32259	7369.22		18O2-PFHxS	5.233	48157	5.5976	ng/ml			
329.0 -> 309.0			9082.88	253.6								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
13C2-6:2FTS	4.933	23543	6430.09		18O2-PFHxS	5.233	48157	6.0456	ng/ml			
429.0 -> 409.0			10550.05	330.7								
13C5-PFHxA	3.836	173878	52577.97		13C2-PFHxA	3.837	188180	2.2423	ng/ml			
318.0 -> 120.0			551.52	2.0								
13C6-PFDA	6.140	106837	7304.64		13C2-PFDA	6.140	119296	1.1350	ng/ml			
13C7-PFUnA	6.586	90540	14798.33		13C2-PFDA	6.140	119296	1.1881	ng/ml			
13C8-PFOA	5.148	193894	45751.59		13C4-PFOA	5.148	30537	2.3160	ng/ml			
13C8-PFOS	6.289	35323	4103.15		13C4-PFOS	6.290	40764	2.4103	ng/ml			
507.0 -> 99.0			4663.42	50.2								
13C8-PFOSA	7.751	54343	341073.02		13C4-PFOS	6.290	40764	2.1084	ng/ml			
13C9-PFNA	5.664	116592	10805.64		13C5-PFNA	5.664	148271	1.1531	ng/ml			
13C5-PFPeA	2.928	324859	11689.85		13C2-PFHxA	3.837	188180	4.6745	ng/ml			
13C2-PFDoA	7.011	87442	10462.71		13C2-PFDA	6.140	119296	1.1118	ng/ml			
13C4-PFHpA	4.549	213778	22943.66		13C2-PFHxA	3.837	188180	2.4646	ng/ml			
13C4-PFBA	1.707	514499	130485.57		13C3-PFBA	1.701	261228	9.0714	ng/ml			
13C3-PFHxS	5.234	43692	18947.33		18O2-PFHxS	5.233	48157	2.2217	ng/ml			
402.0 -> 99.0			4072.34	51.1								
13C3-PFBS	3.757	62280	11819.42		18O2-PFHxS	5.233	48157	2.3929	ng/ml			
301.9 -> 98.9			8956.62	35.3								
13C3-HFPODA	4.103	203848	19779.53		13C2-PFHxA	3.837	188180	9.3980	ng/ml			
287.0 -> 185.0			11786.13	46.2								
13C2-PFTeDA	7.819	67815	18013.53		13C2-PFDA	6.140	119296	1.0014	ng/ml			
D9-NEtFOSE	9.394	186640	50011.16		13C4-PFOS	6.290	40764	17.4130	ng/ml			
D3-NMeFOSA	9.193	13052	10948.02		13C4-PFOS	6.290	40764	1.5788	ng/ml			
D3-NMeFOSAA	6.211	169131	24088.77		13C4-PFOS	6.290	40764	6.4047	ng/ml			
D5-NEtFOSA	9.538	13565	7067.72		13C4-PFOS	6.290	40764	1.5731	ng/ml			
D5-NEtFOSAA	6.414	69259	4879.51		13C4-PFOS	6.290	40764	5.1831	ng/ml			
D7-NMeFOSE	9.049	177648	56682.62		13C4-PFOS	6.290	40764	17.7349	ng/ml			

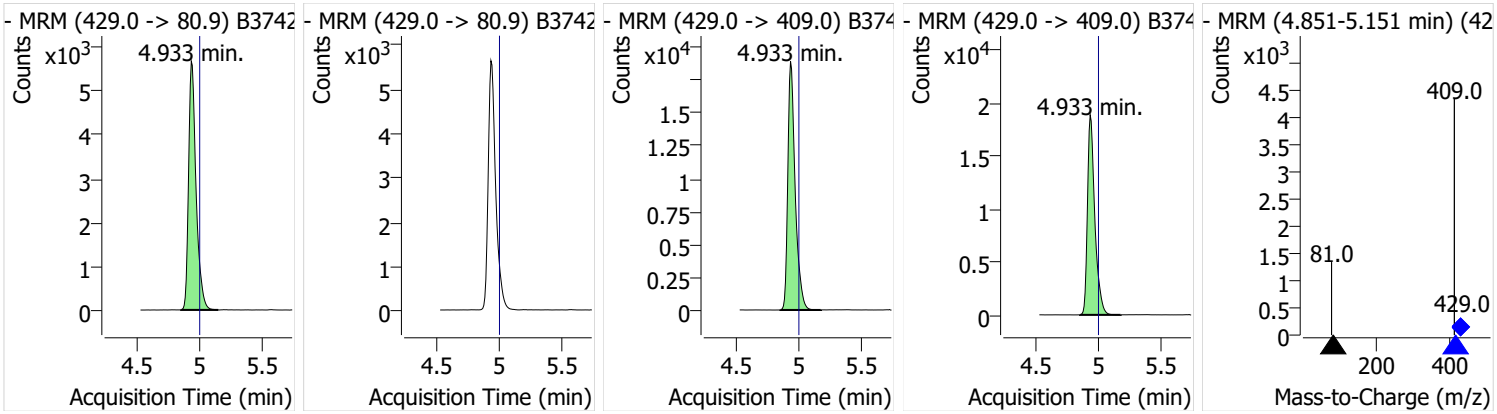
11Cl-PF3OUdS



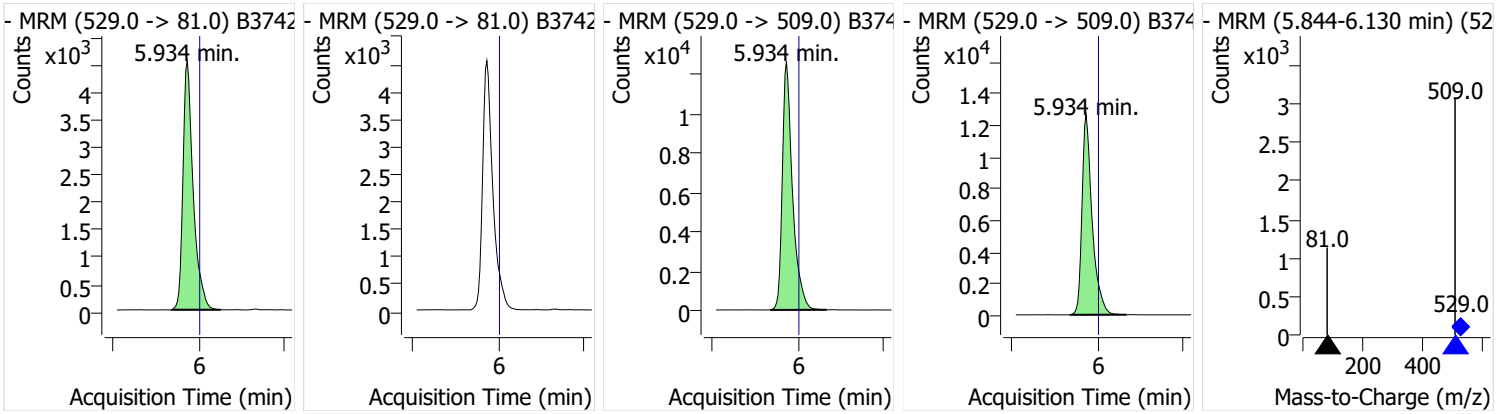
13C2-4:2FTS - ISTD



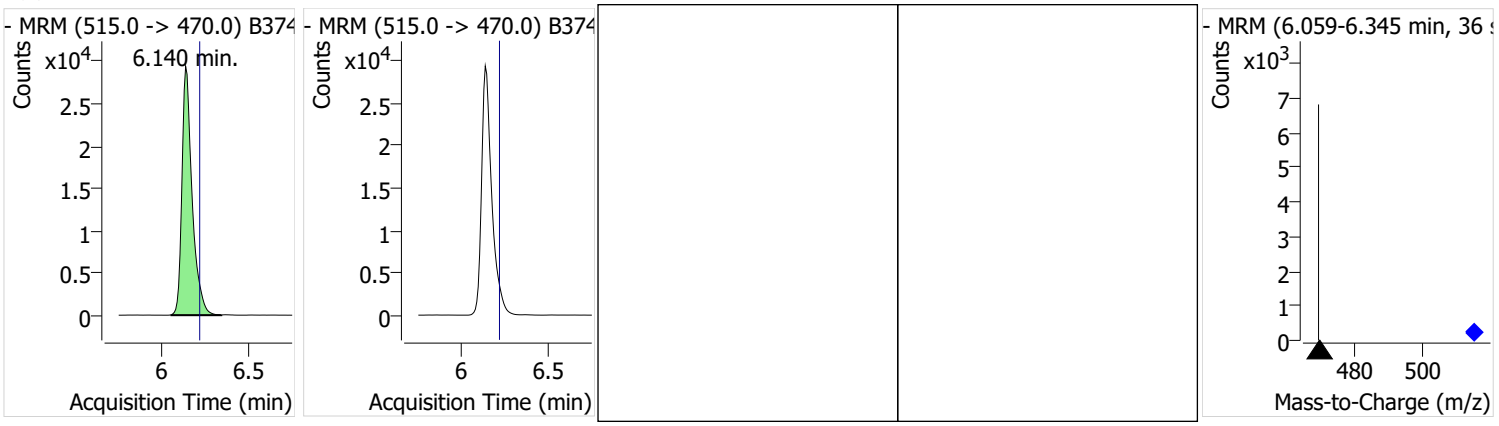
13C2-6:2FTS - ISTD



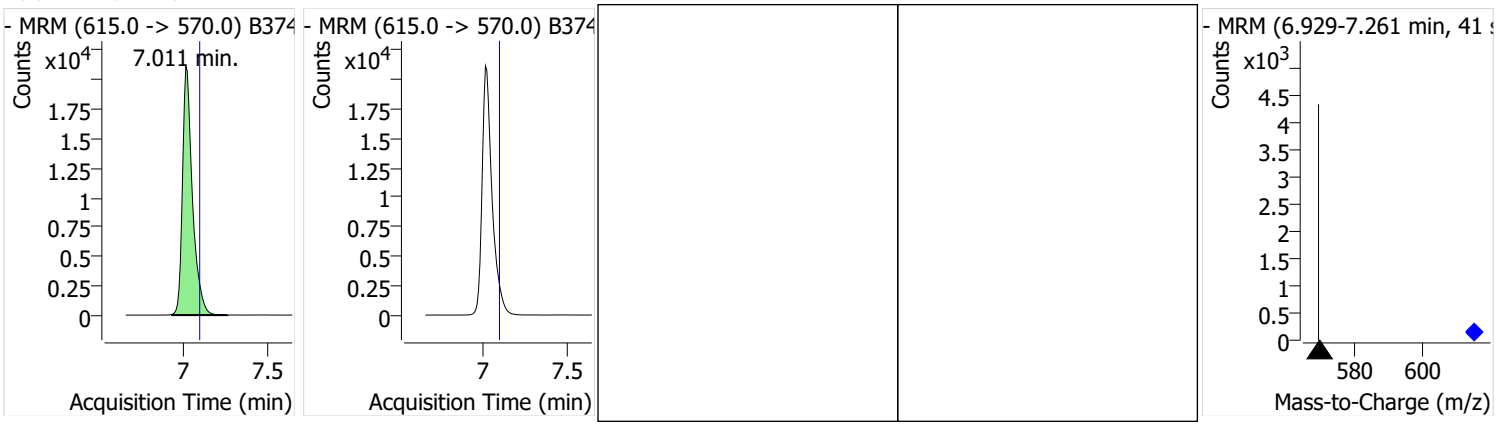
13C2-8:2FTS - ISTD



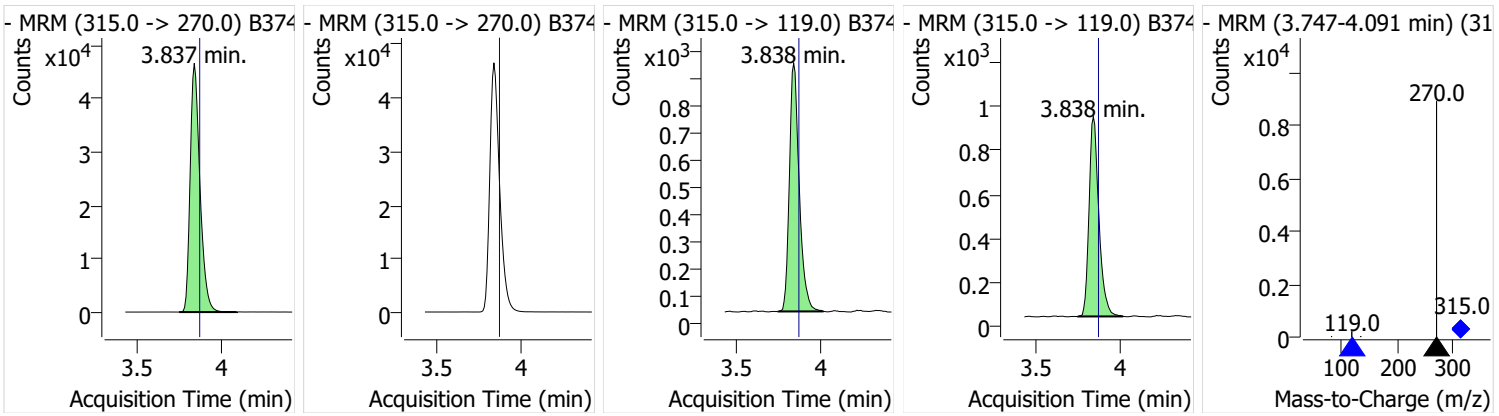
13C2-PFDA



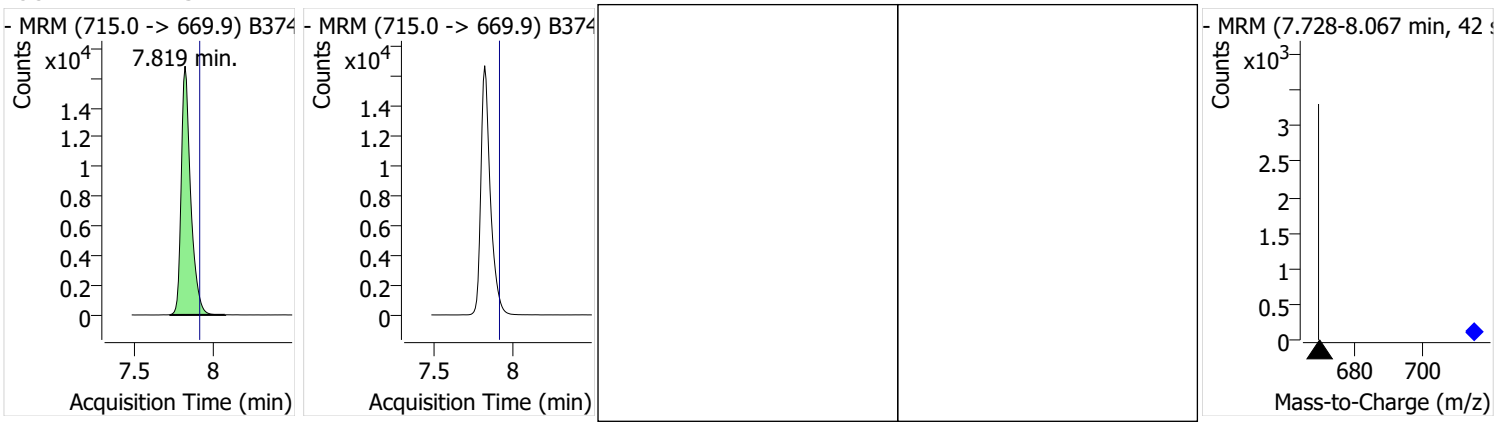
13C2-PFDoA - ISTD



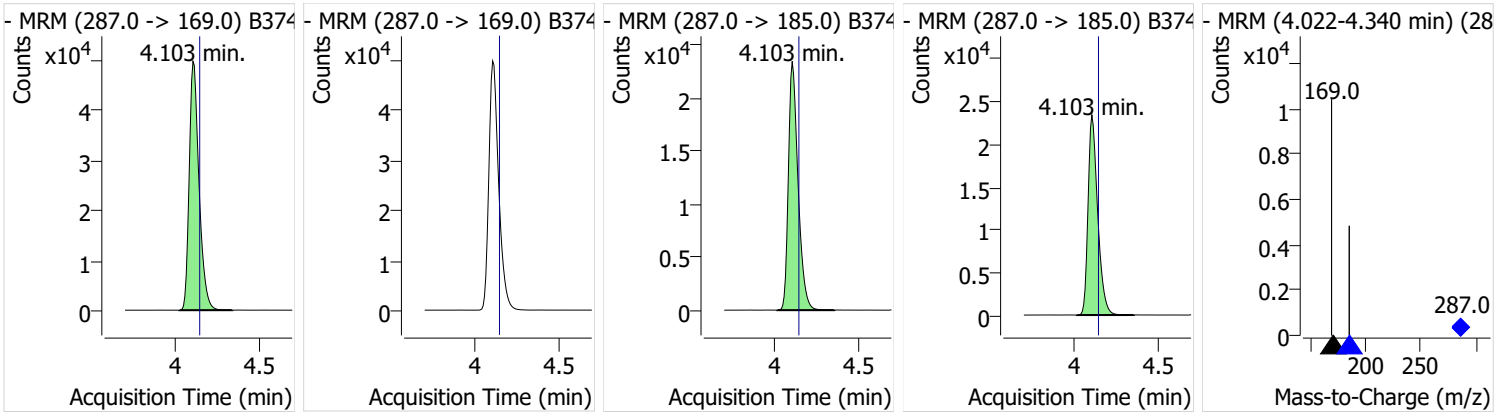
13C2-PFHxA



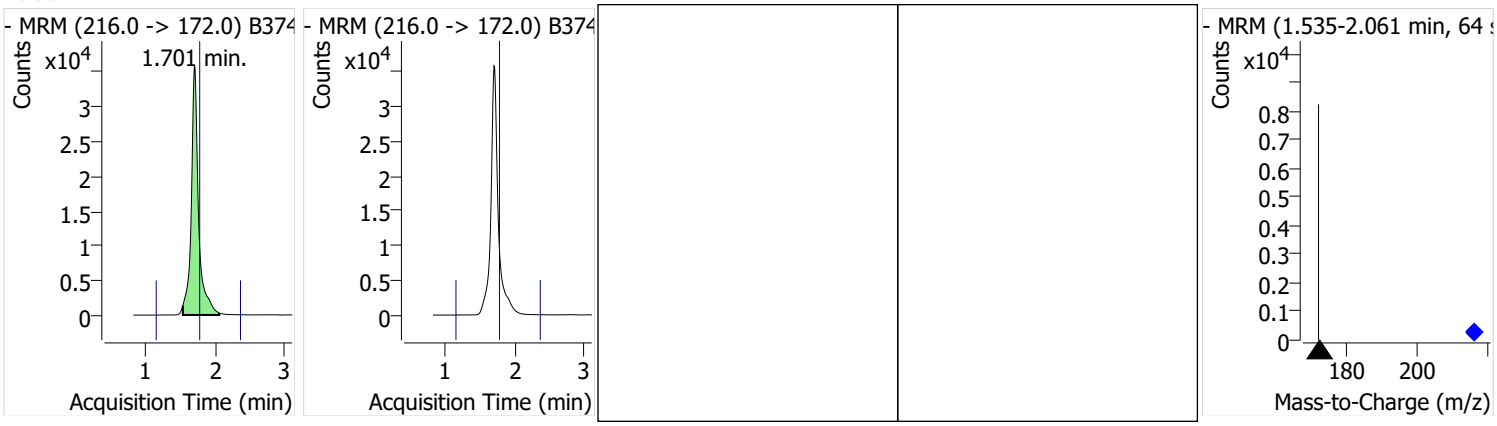
13C2-PFTeDA - ISTD



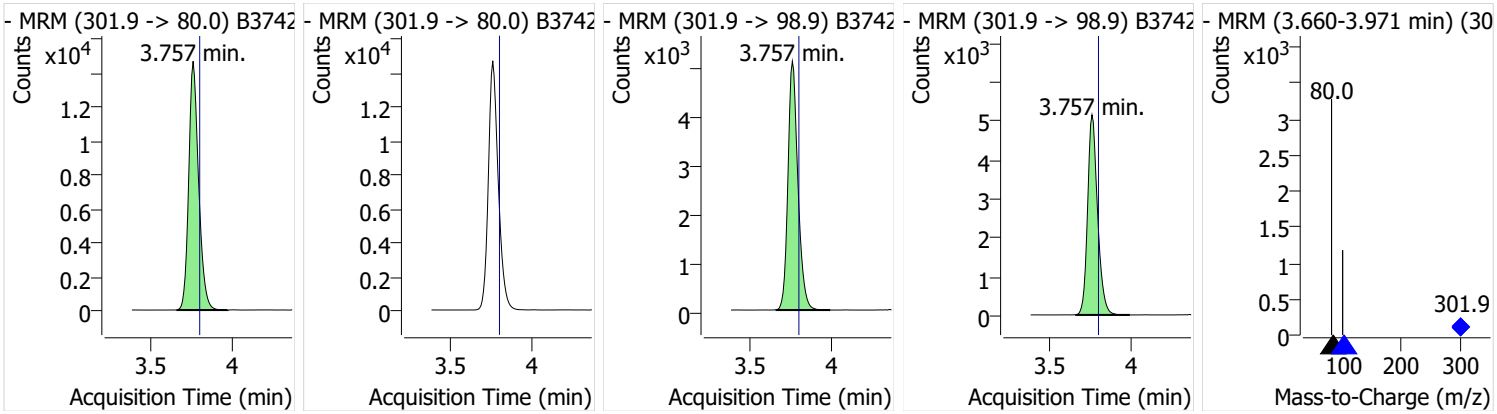
13C3-HFPODA - ISTD



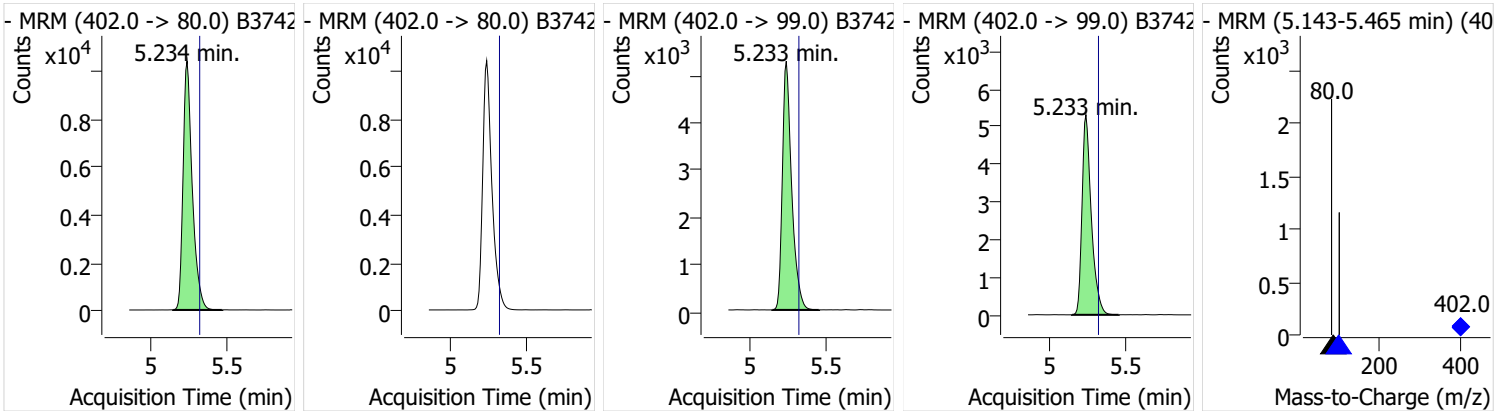
13C3-PFBA



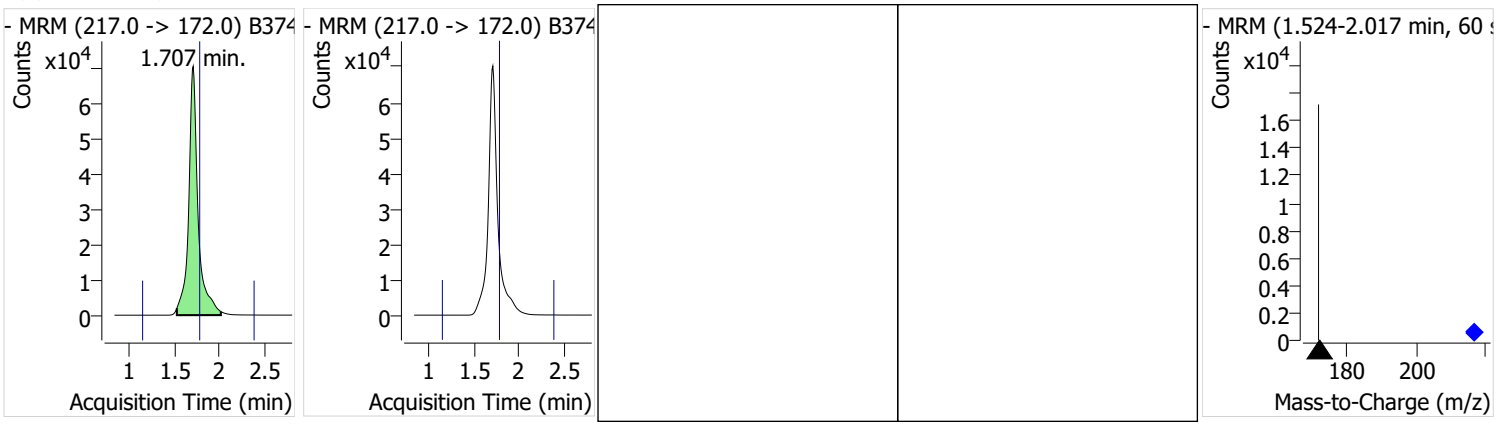
13C3-PFBS - ISTD



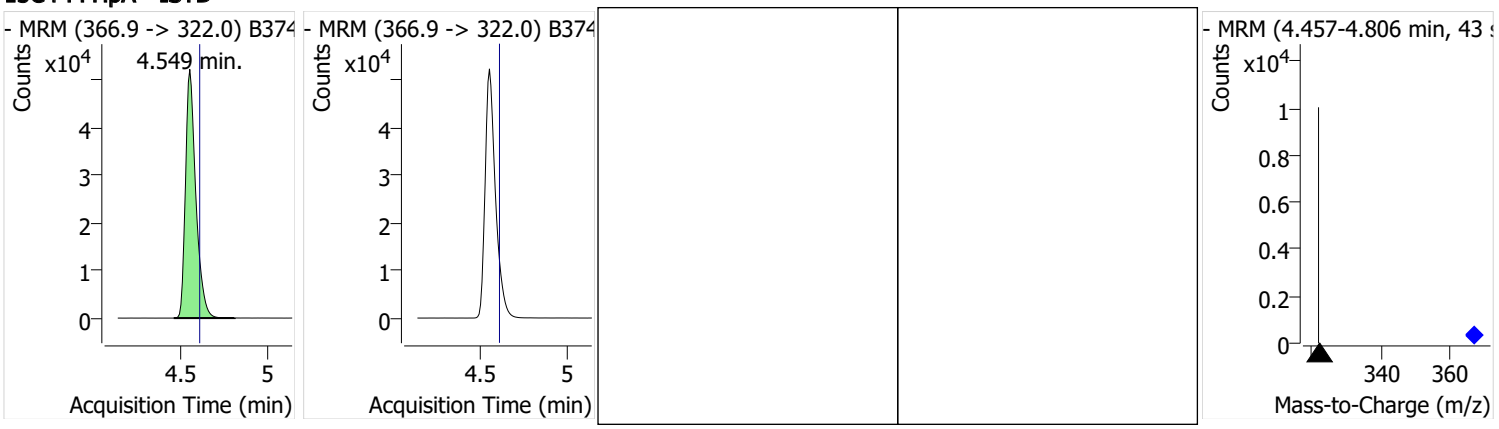
13C3-PFHxS - ISTD



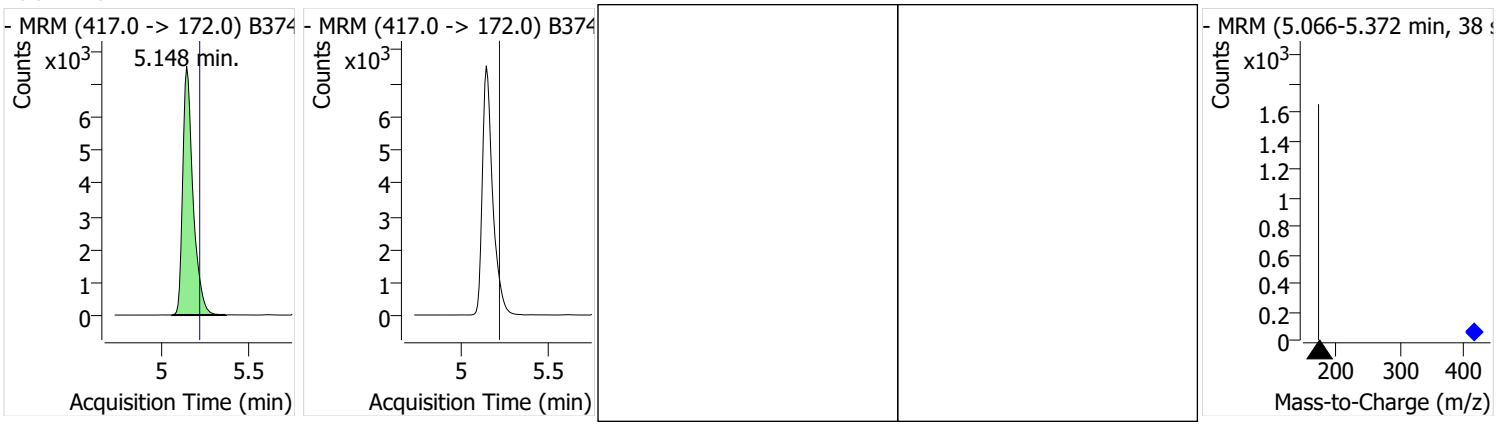
13C4-PFBA - ISTD



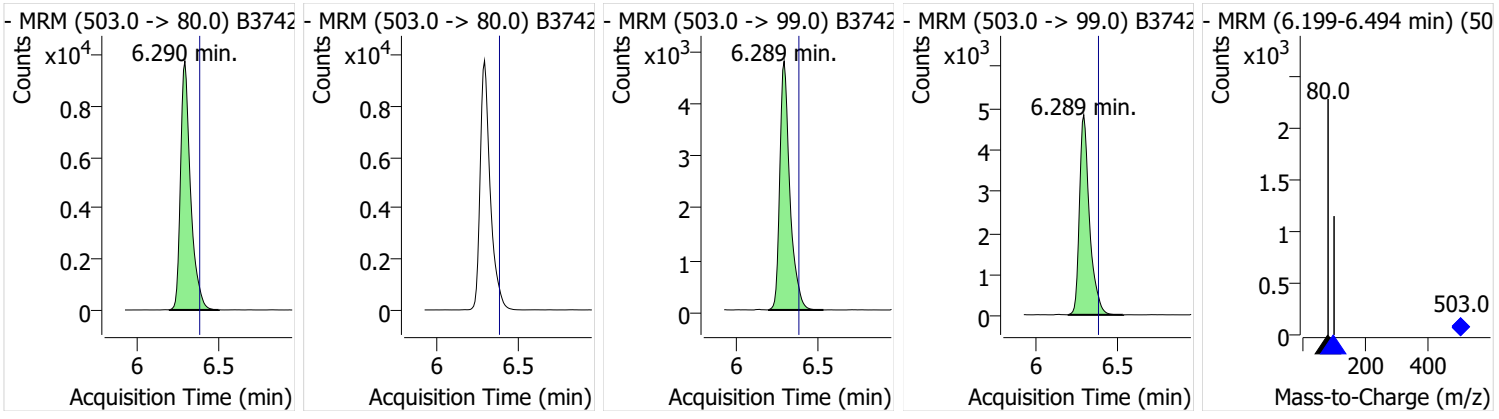
13C4-PFHpA - ISTD



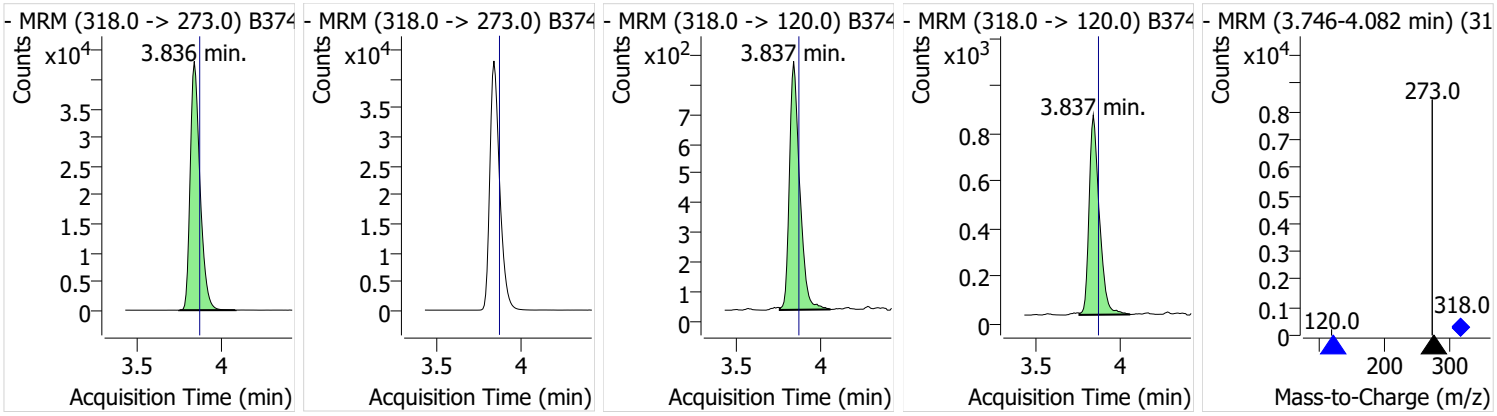
13C4-PFOA



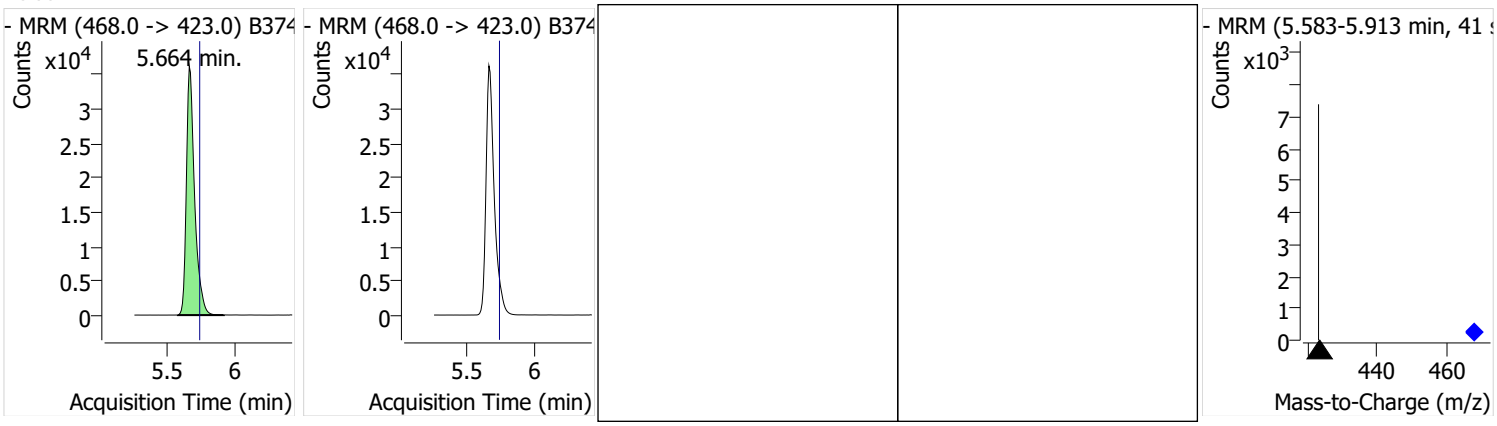
13C4-PFOS



13C5-PFHxA - ISTD

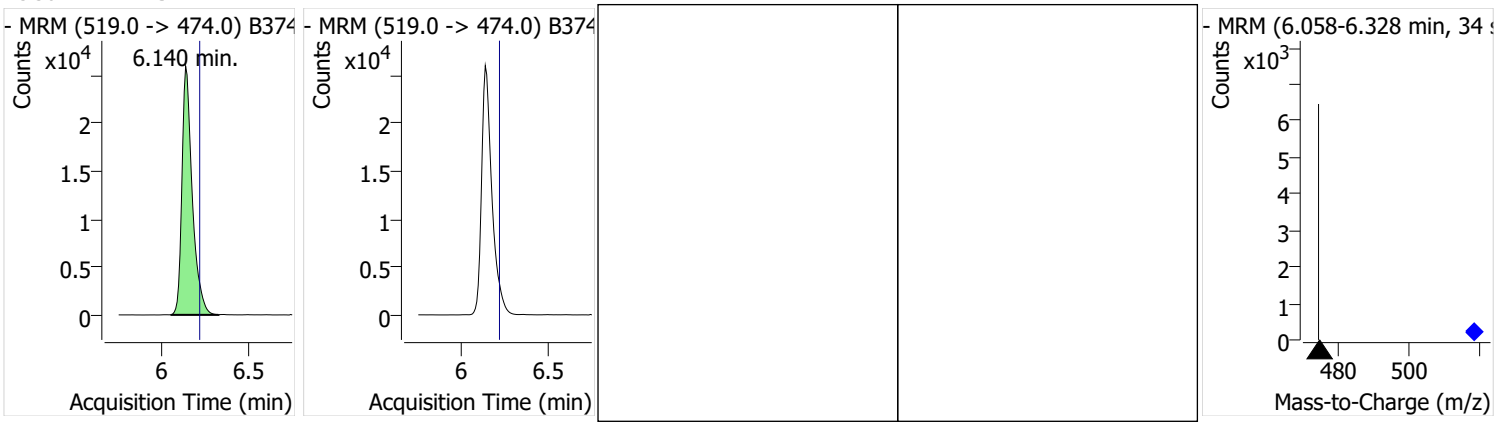


13C5-PFNA

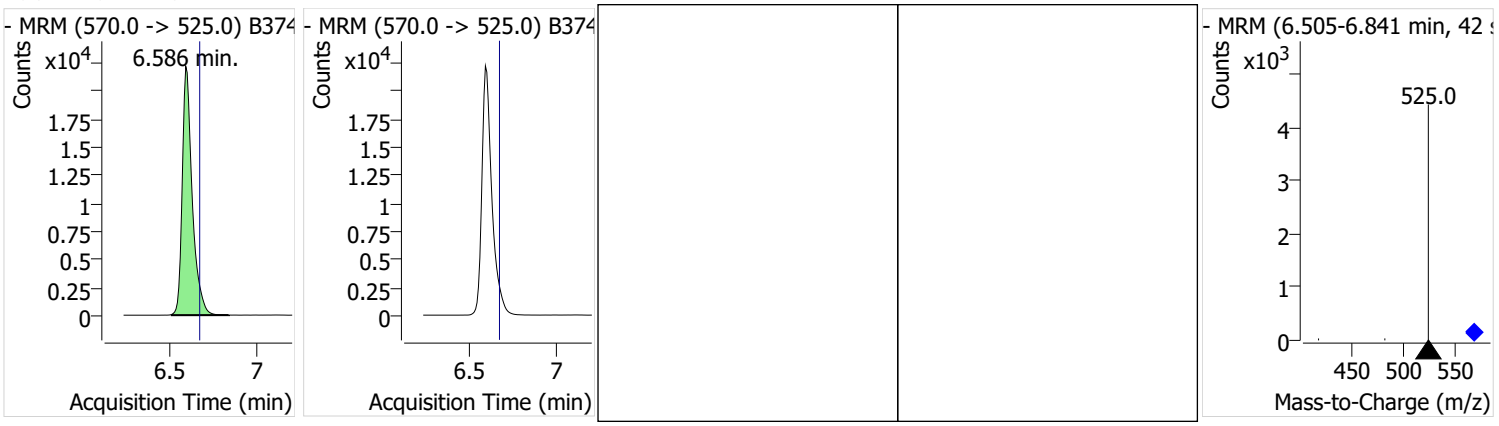


13C5-PFPeA - ISTD

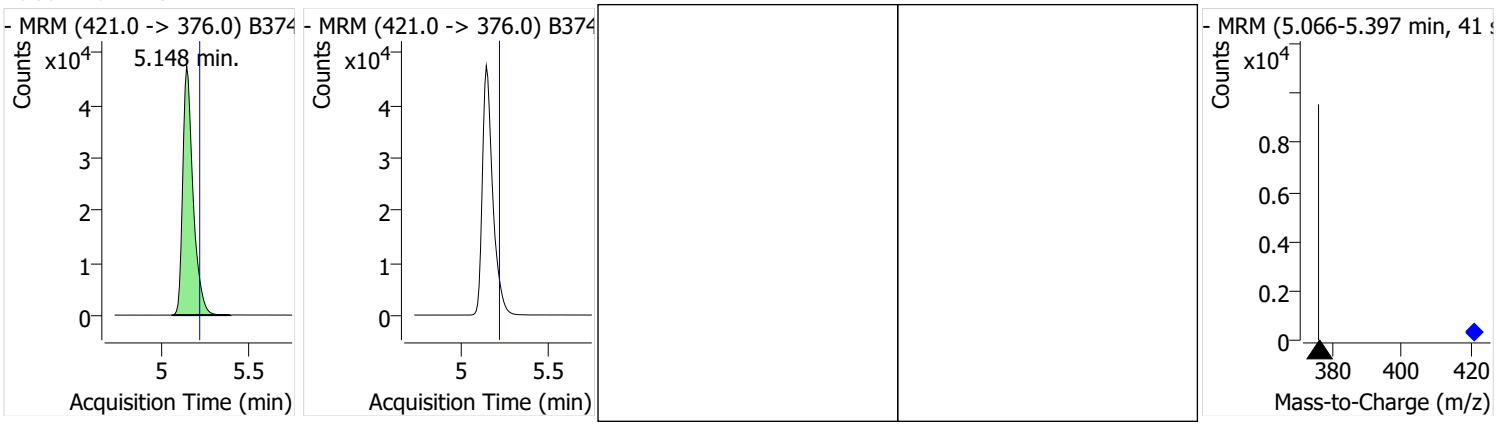
13C6-PFDA - ISTD



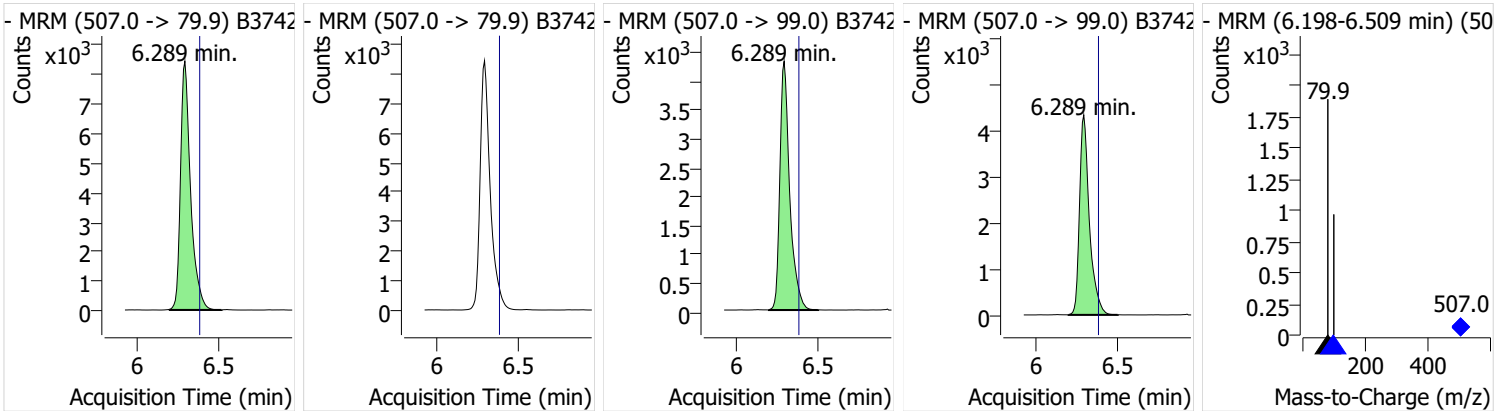
13C7-PFUnA - ISTD



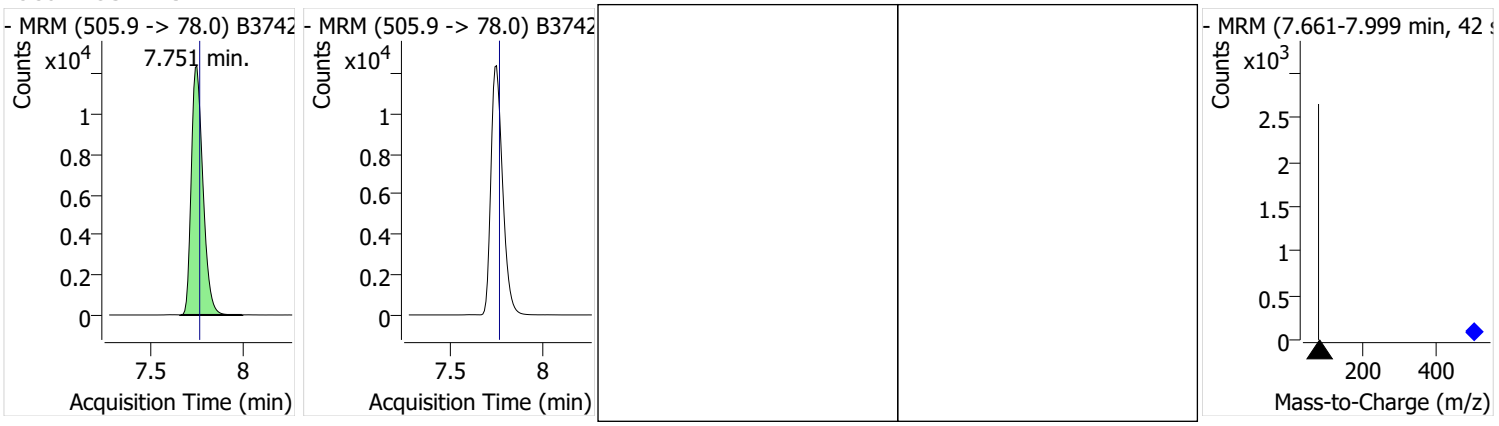
13C8-PFOA - ISTD



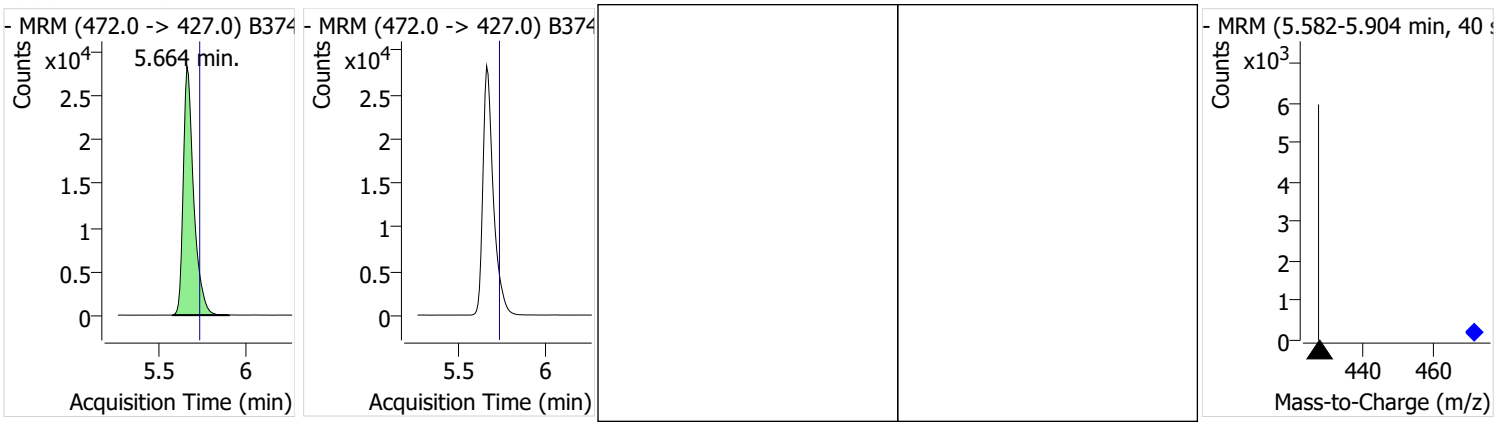
13C8-PFOS - ISTD



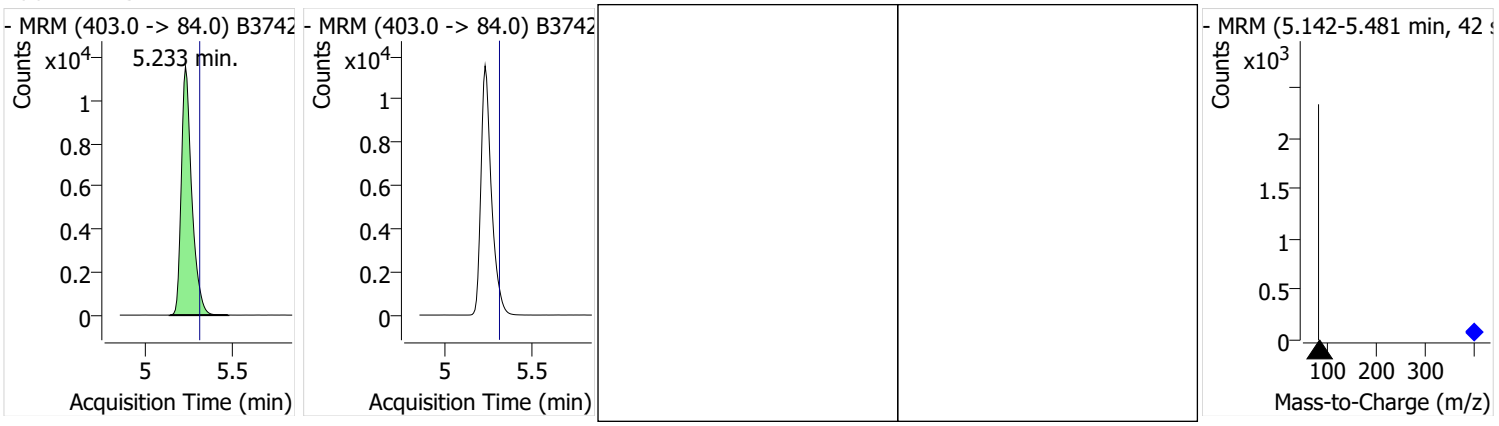
13C8-PFOSA - ISTD



13C9-PFNA - ISTD



18O2-PFHxS



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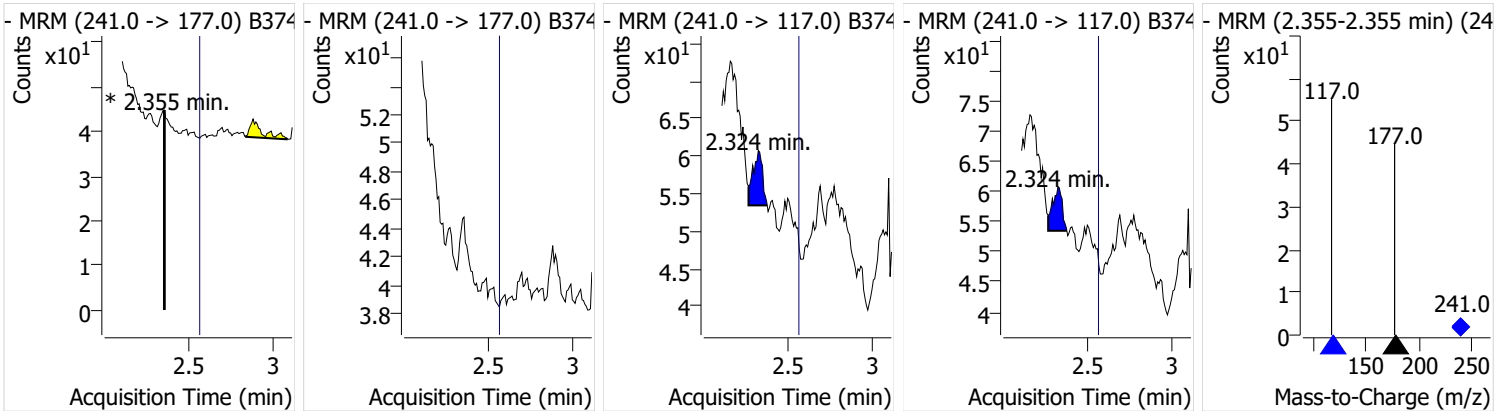
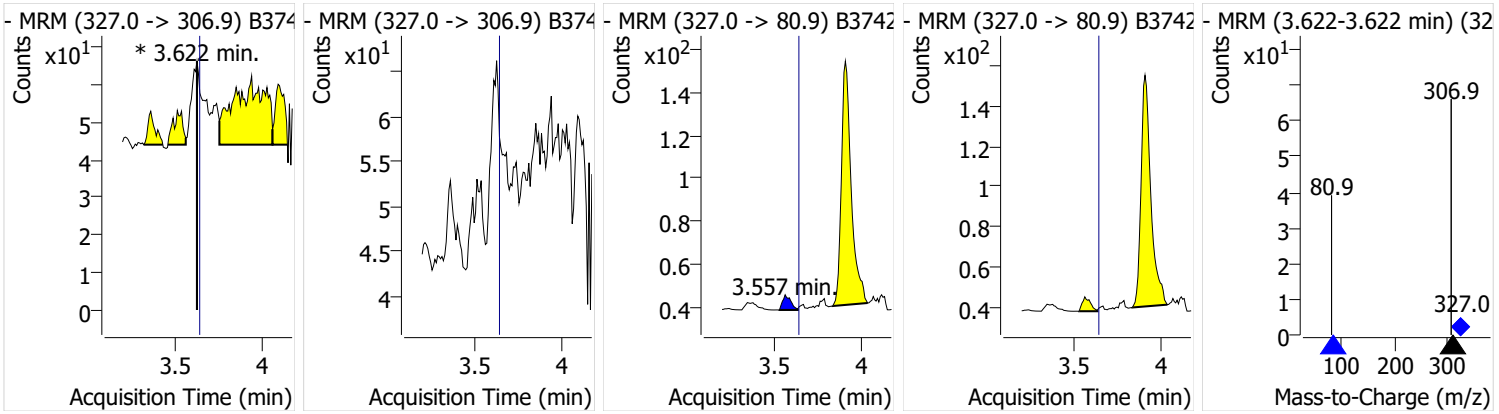


4:2FTS



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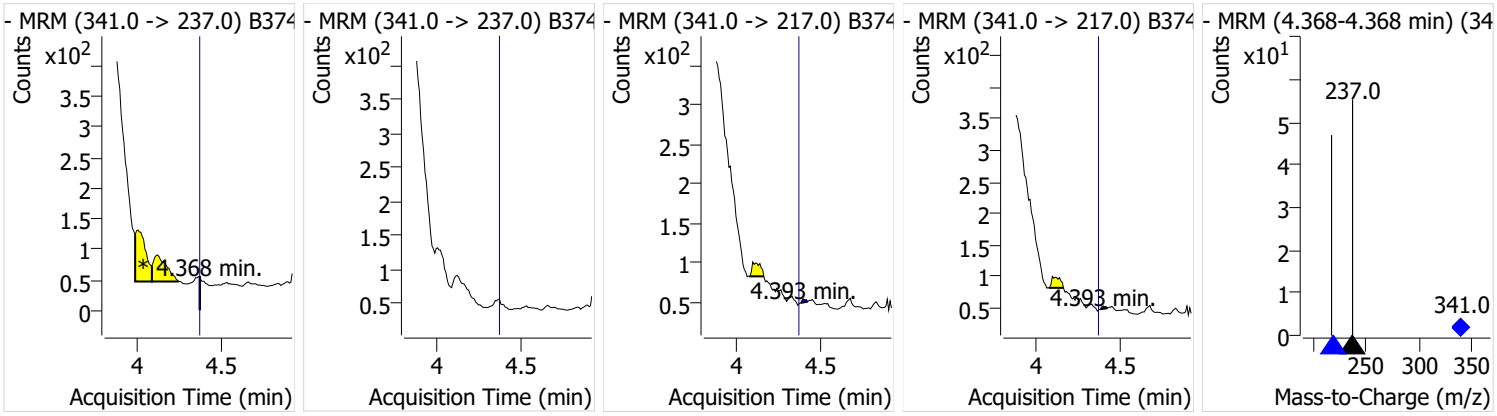
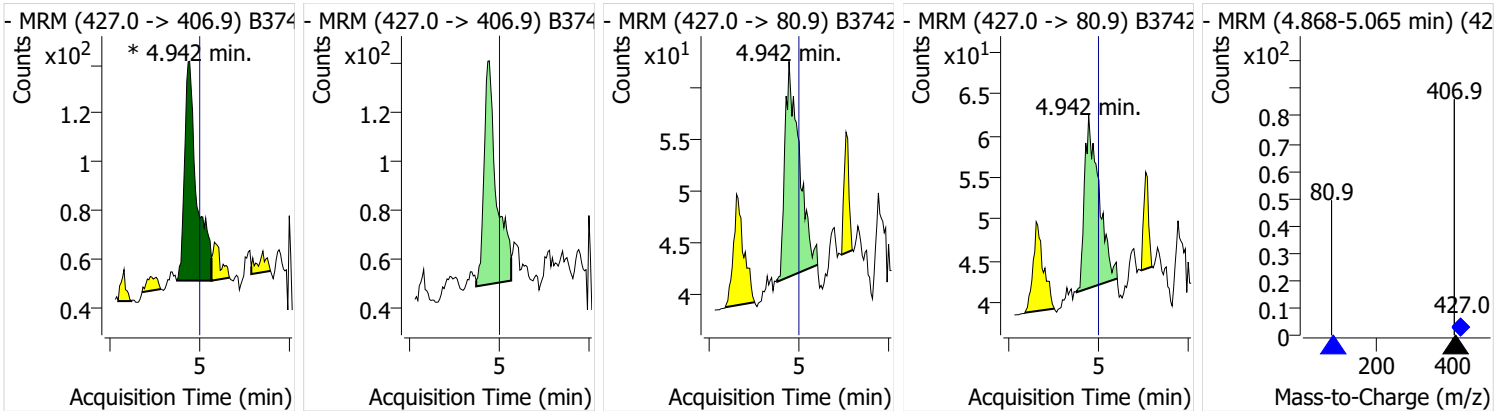
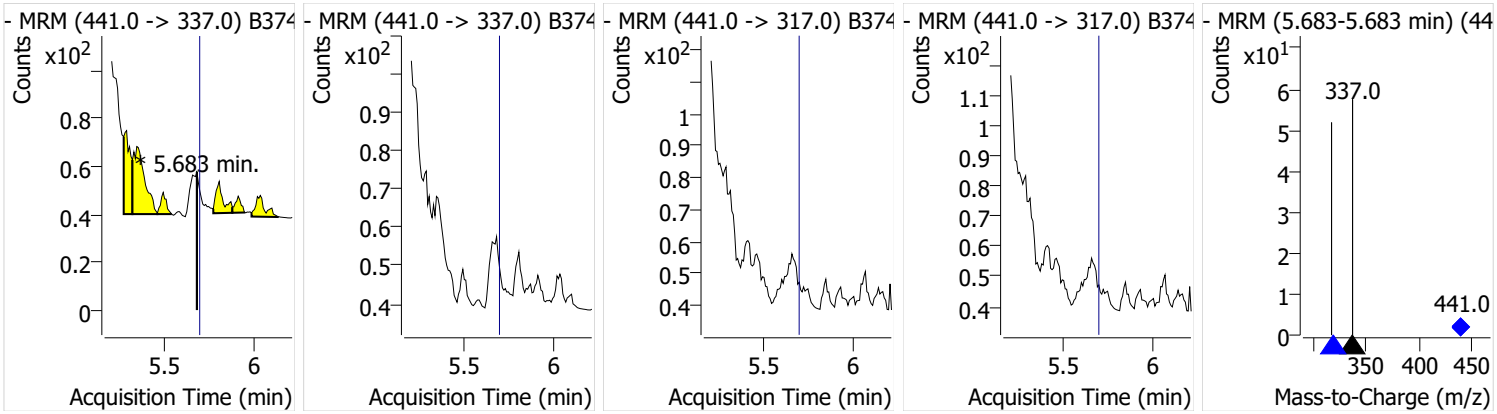


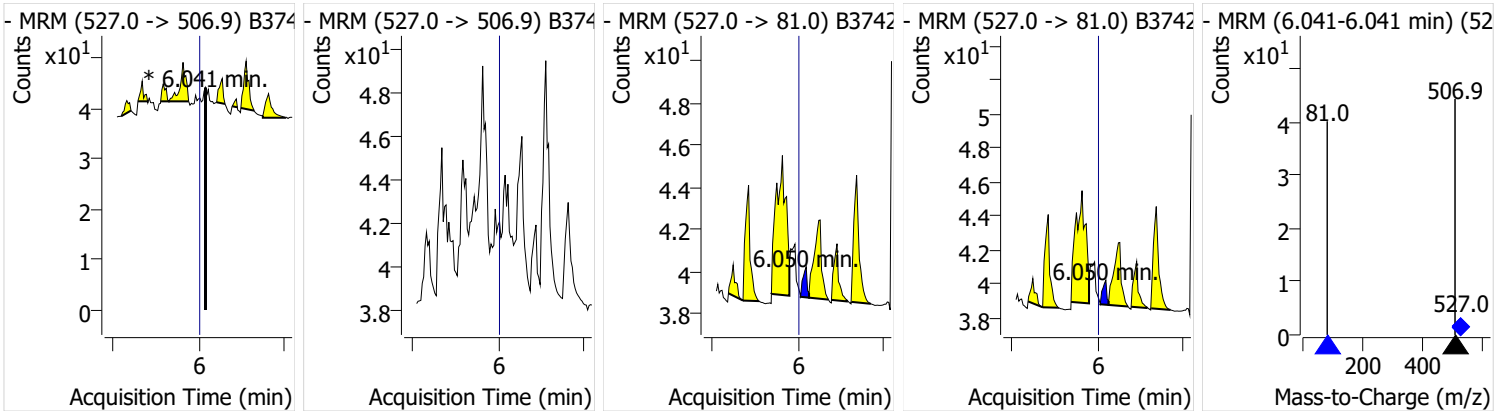
6:2FTS



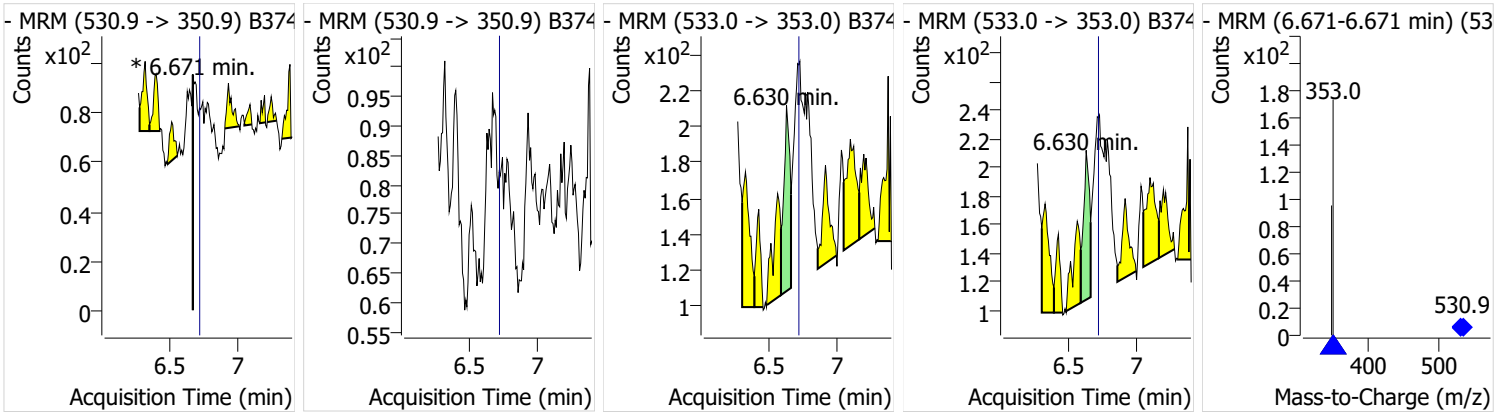
7:3FTCA



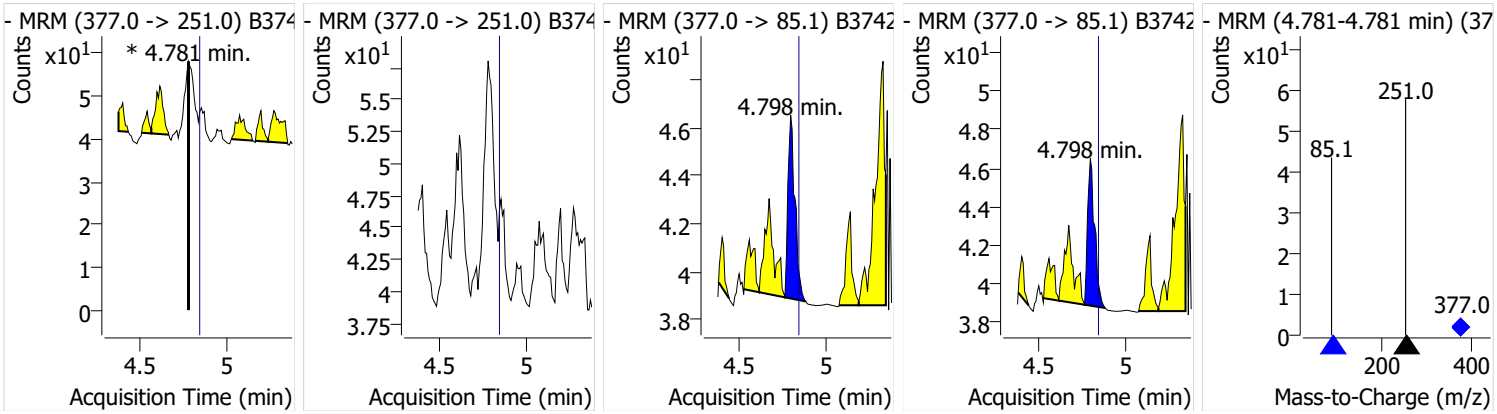
8:2FTS



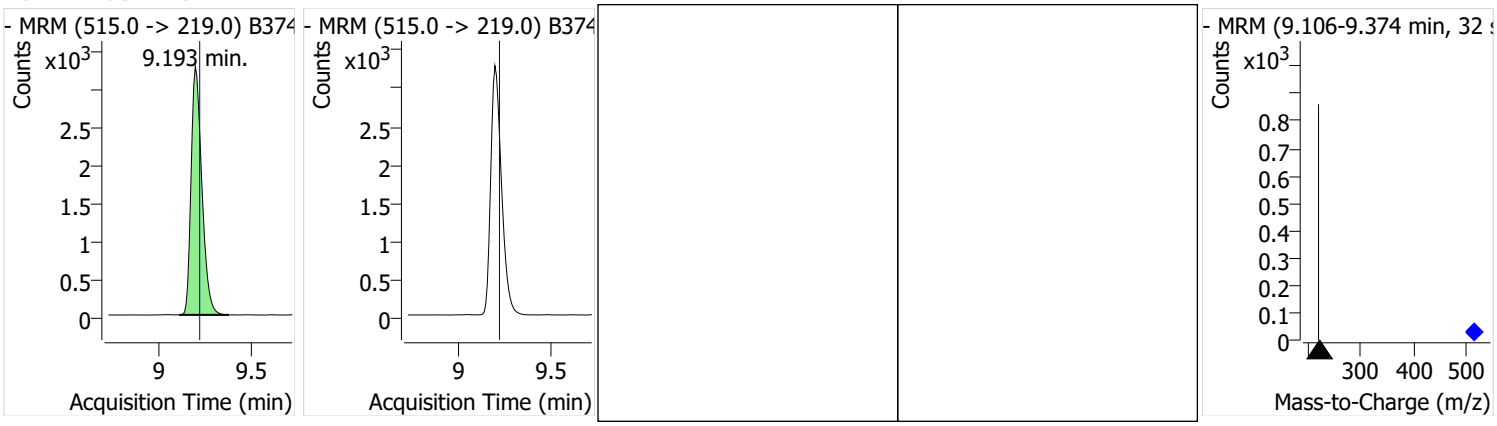
9Cl-PF3ONS



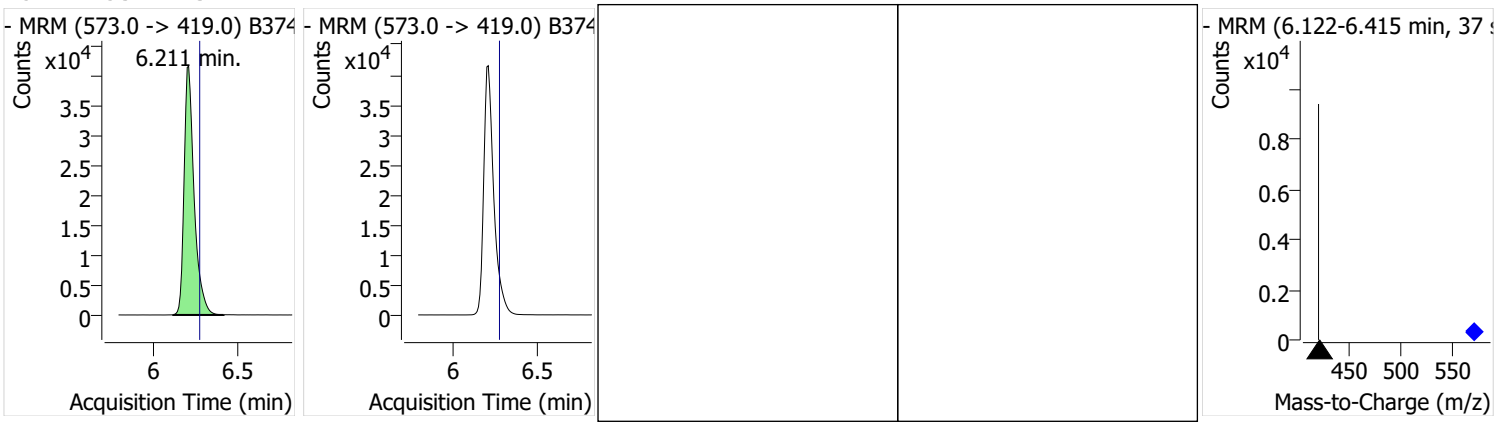
ADONA



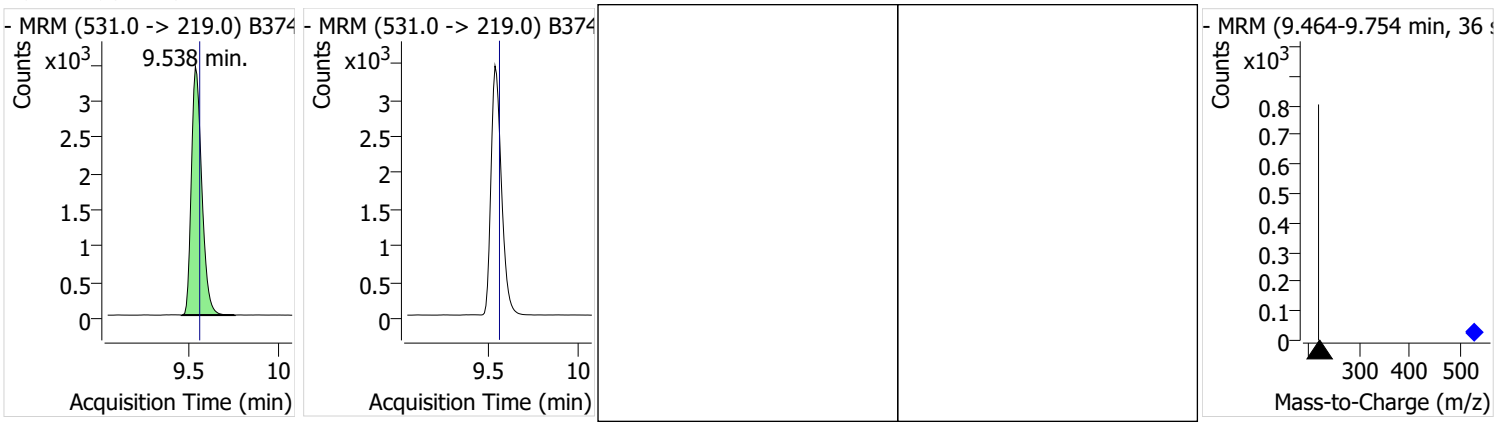
D3-NMeFOSA - ISTD



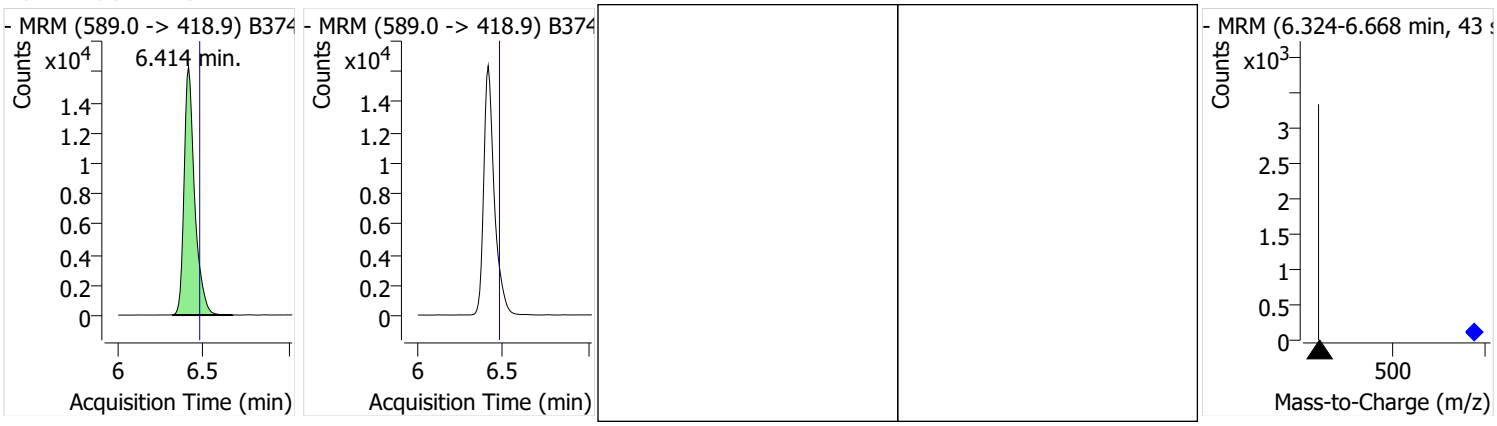
D3-NMeFOSAA - ISTD



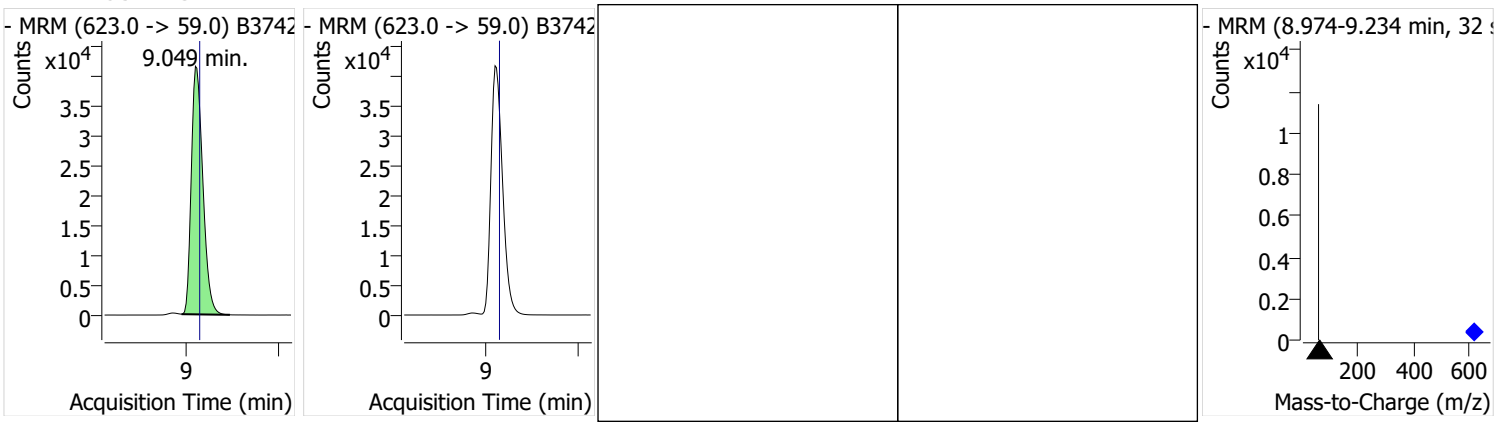
D5-NEtFOSA - ISTD



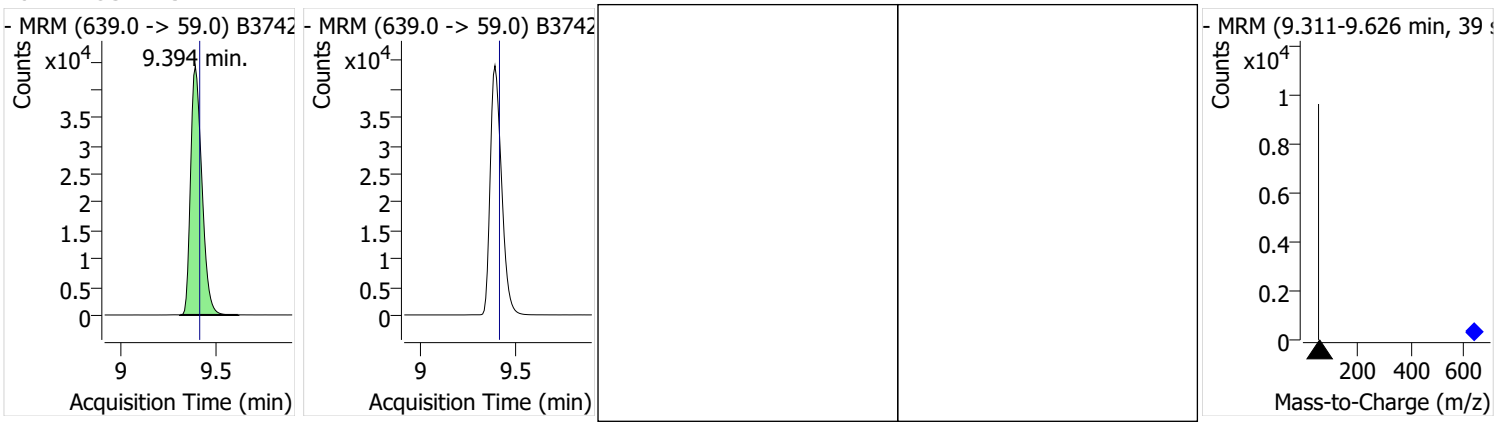
D5-NEtFOSAA - ISTD



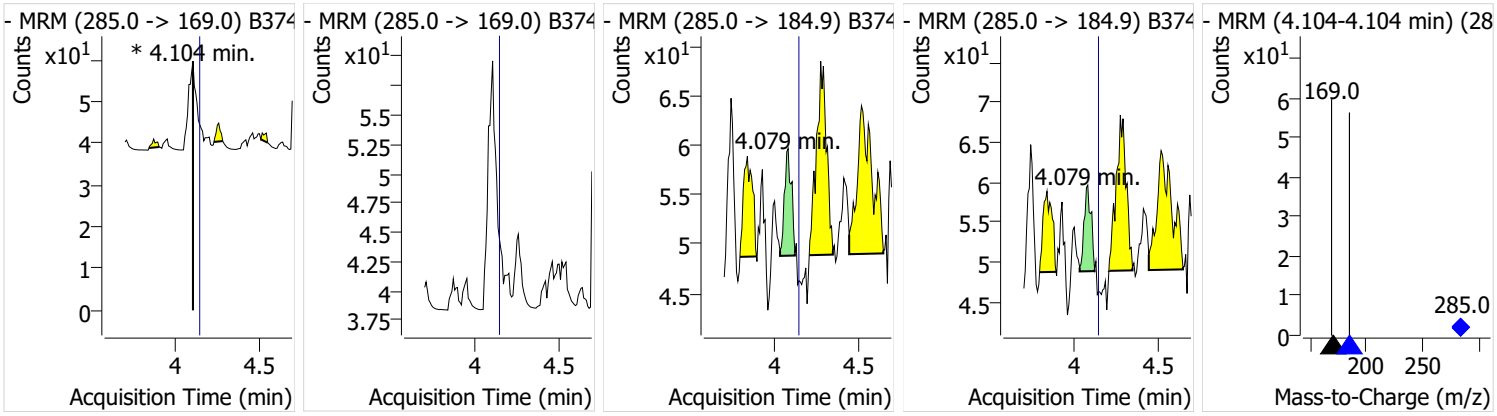
D7-NMeFOSE - ISTD



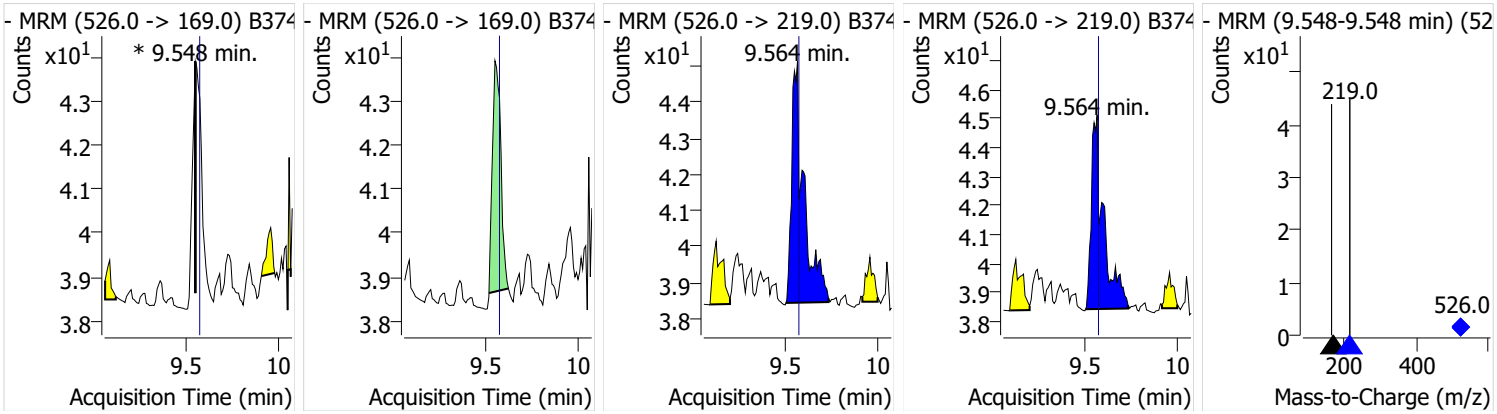
D9-NEtFOSE - ISTD



HFPO-DA



NEtFOSA



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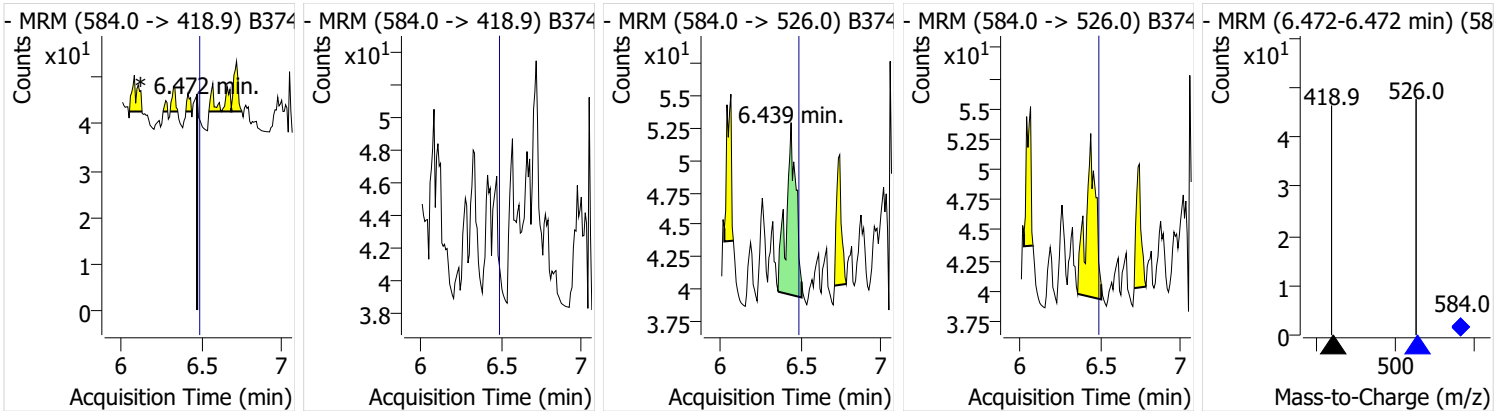

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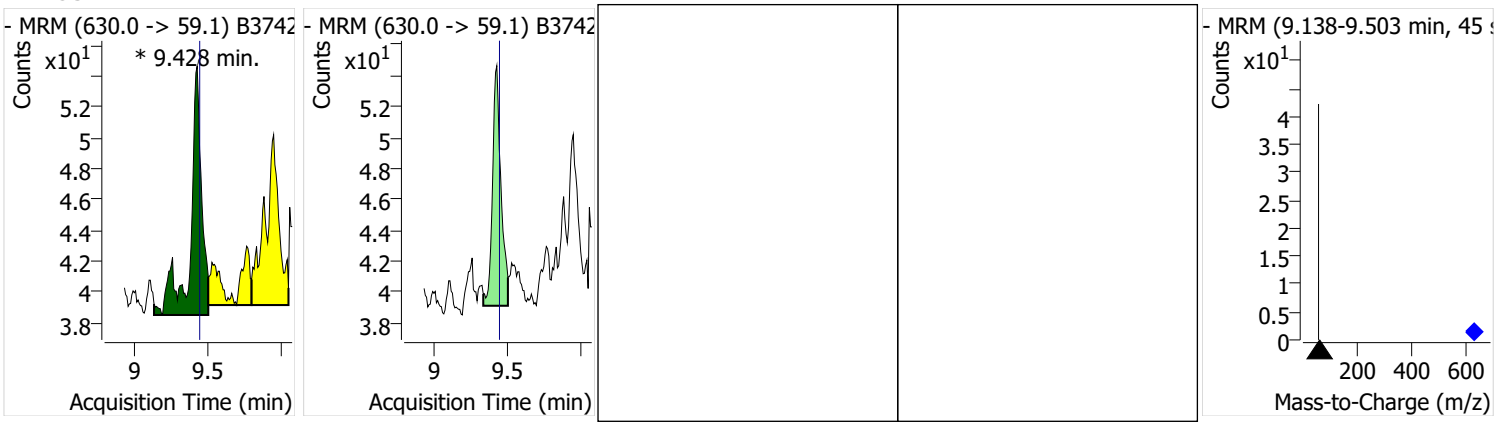
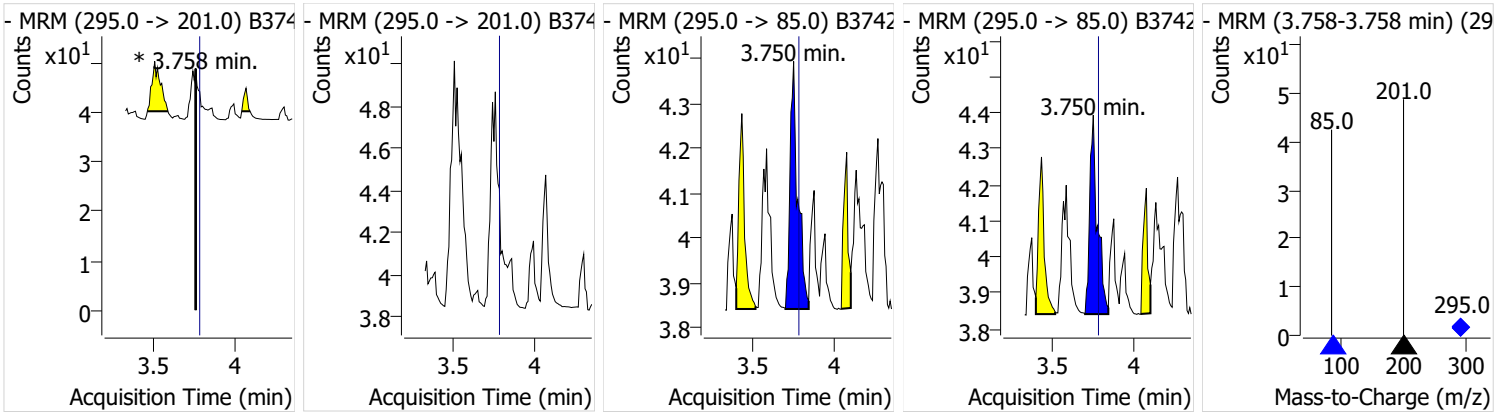


NFDHA



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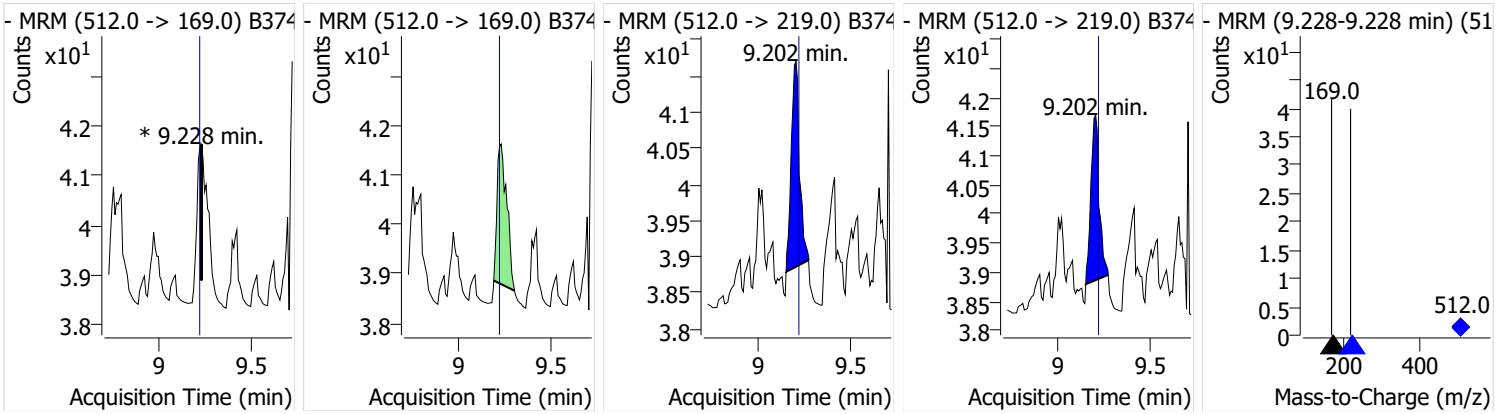

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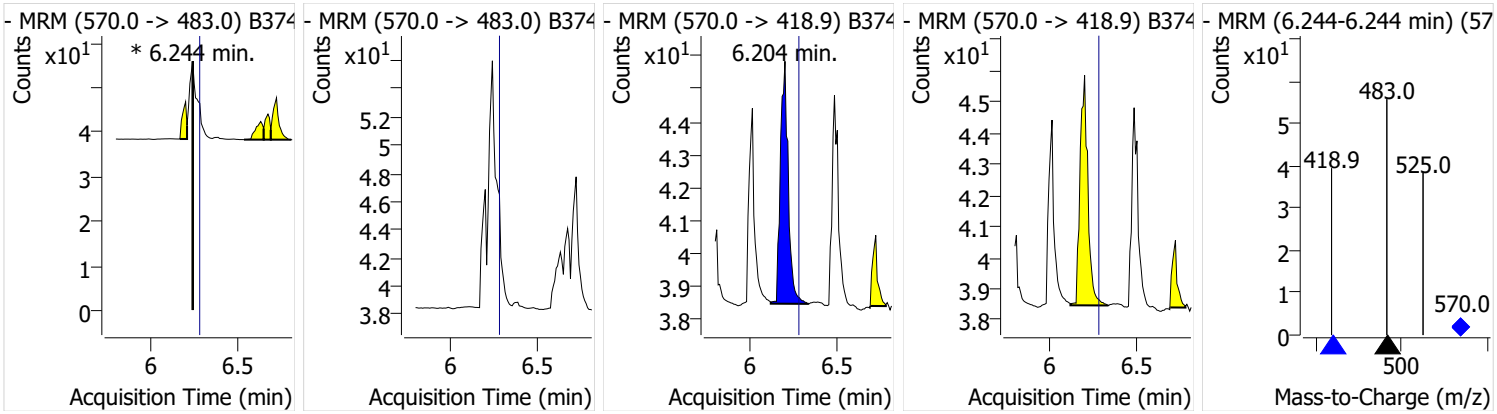

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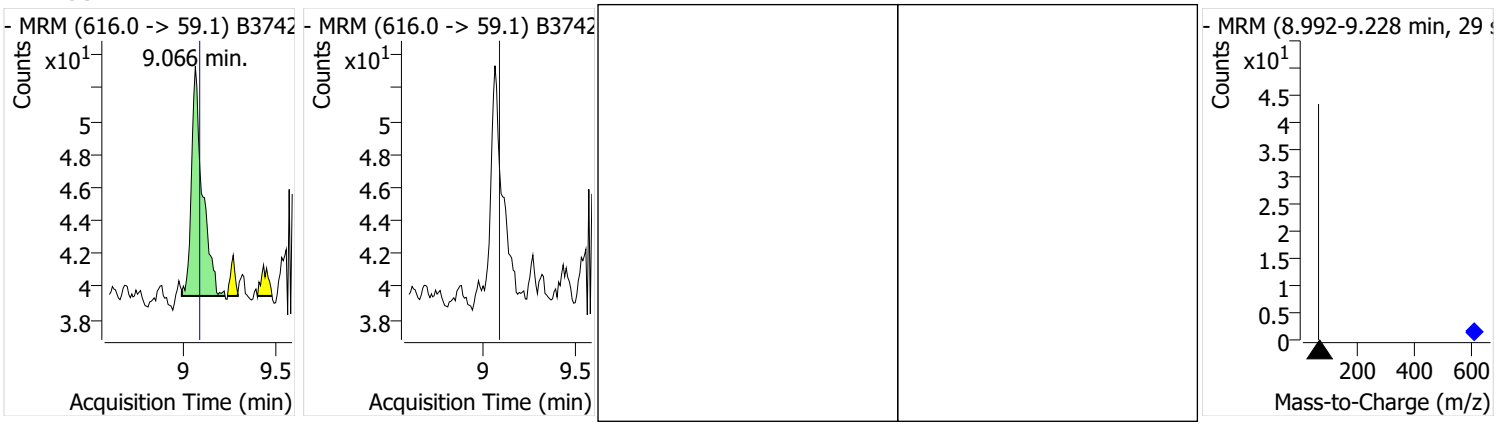
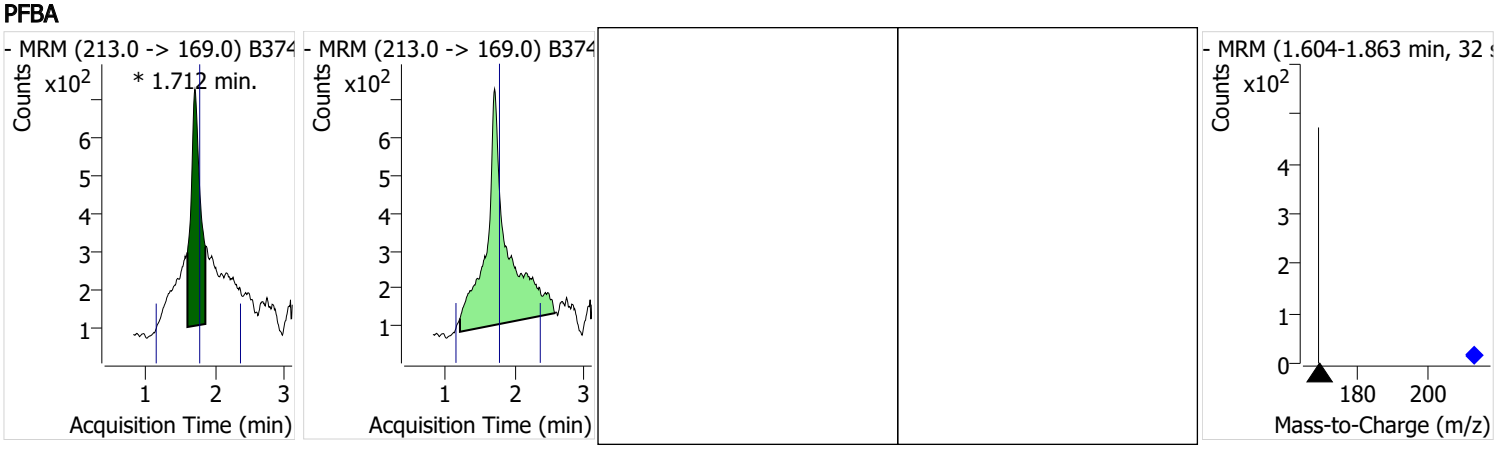
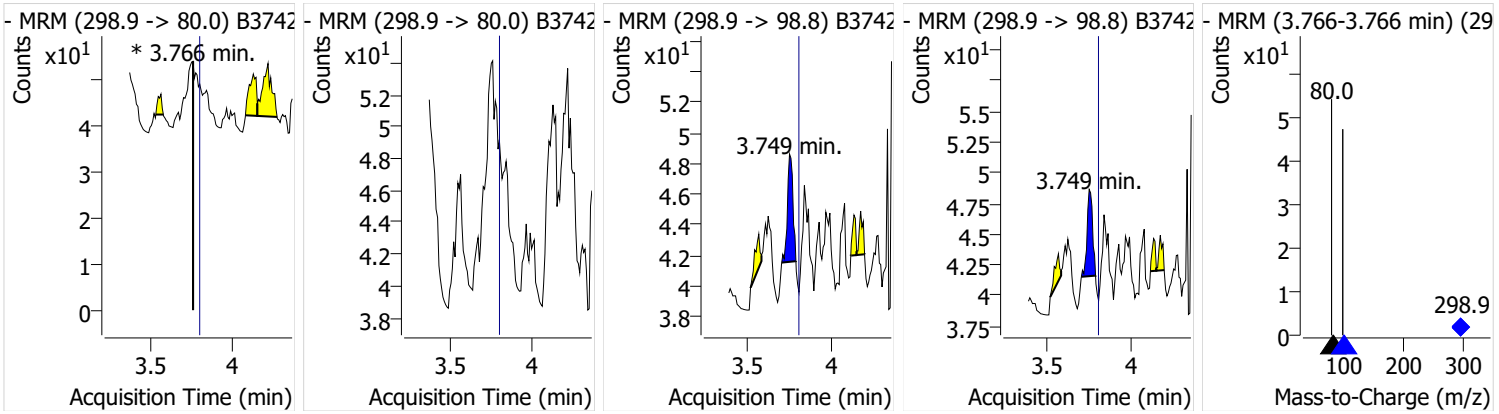


PFBA



PFBS



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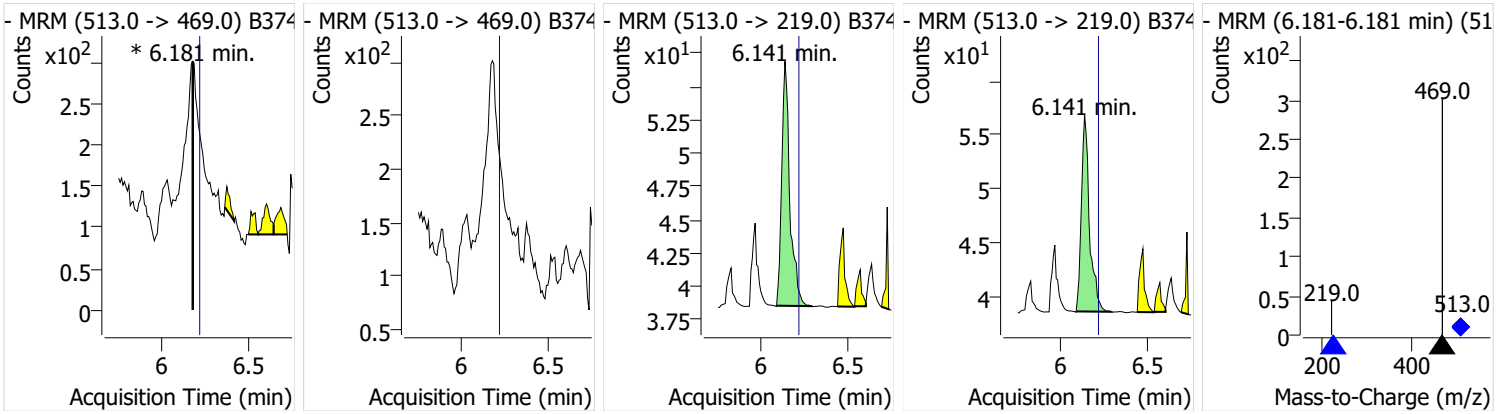
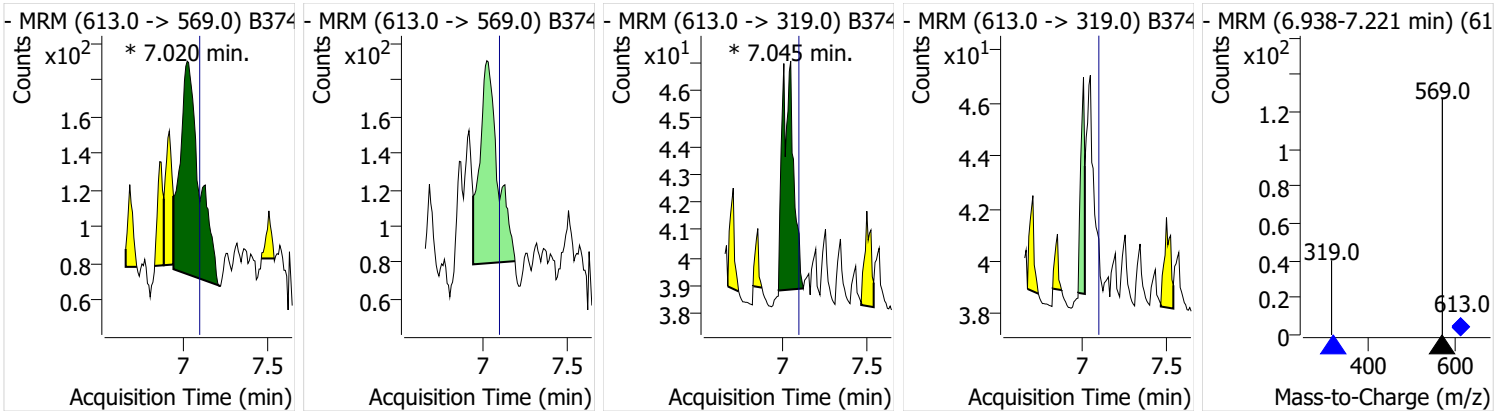


PFDoA



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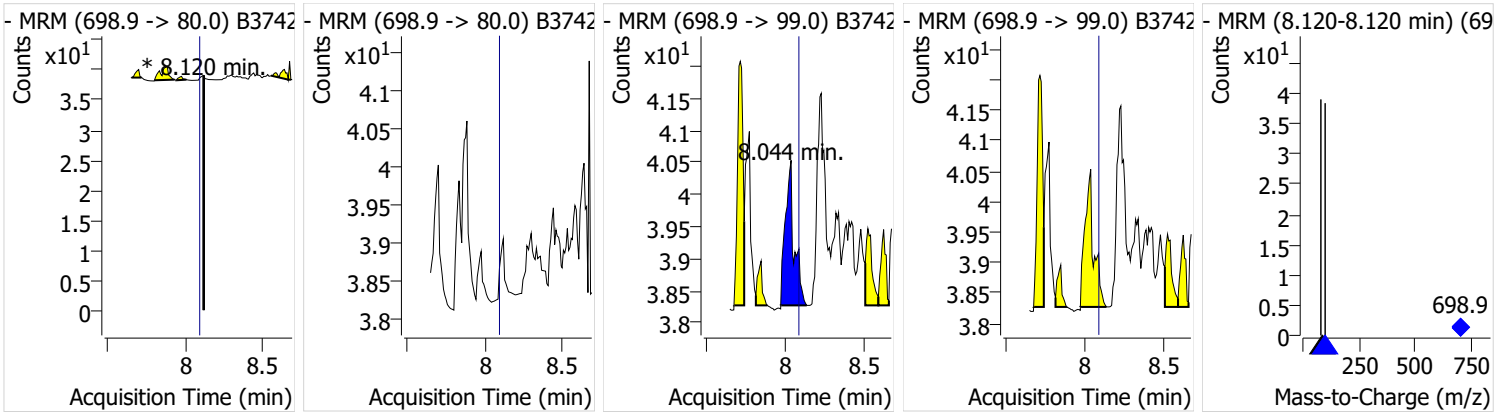

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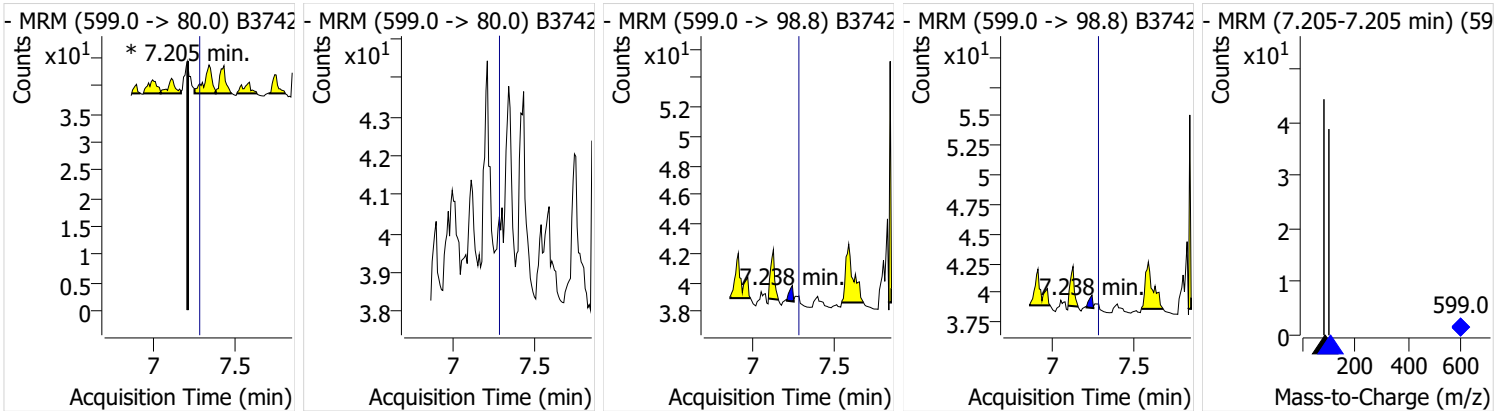

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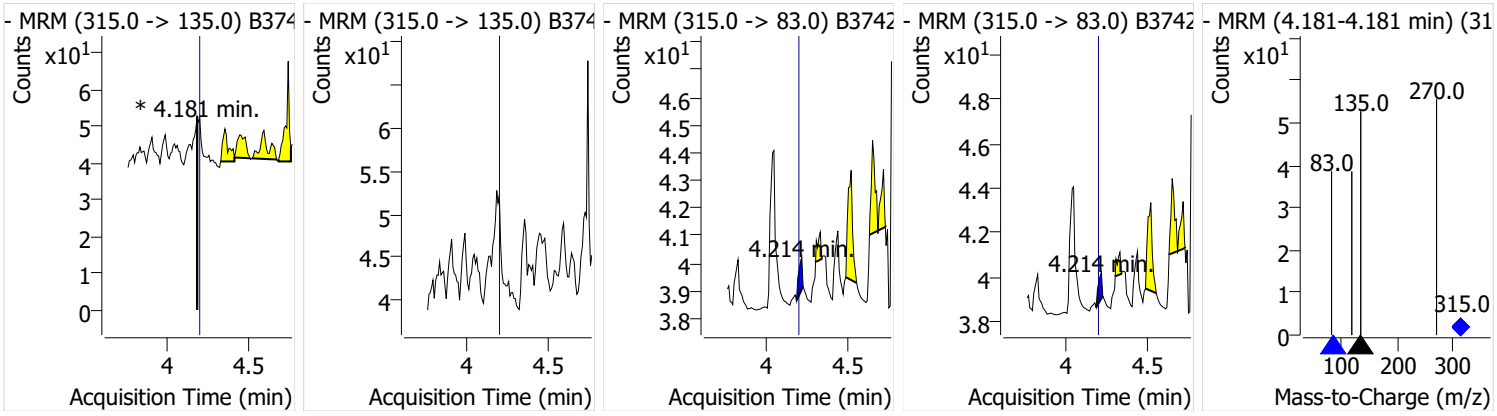

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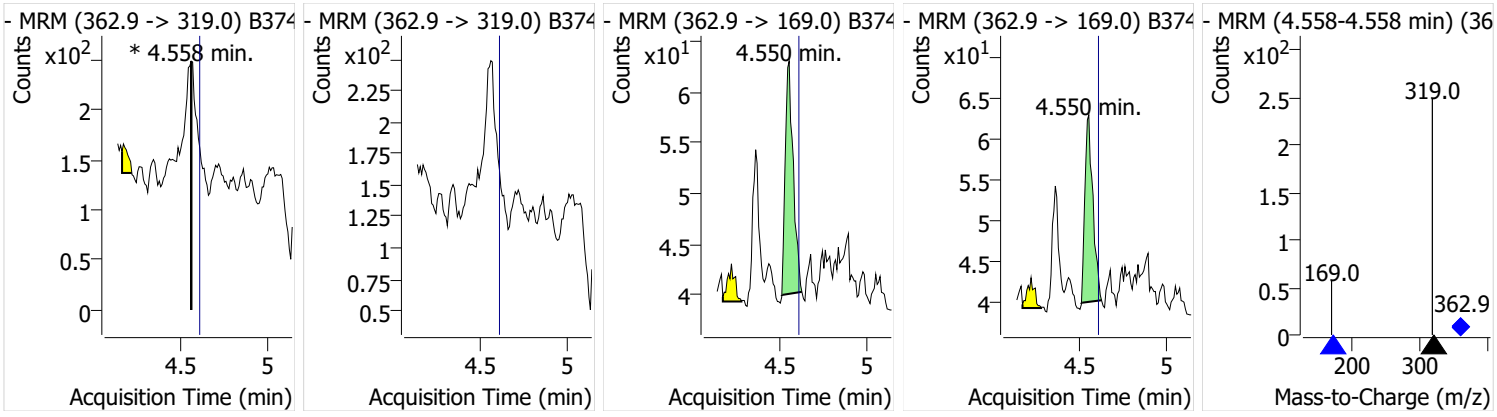

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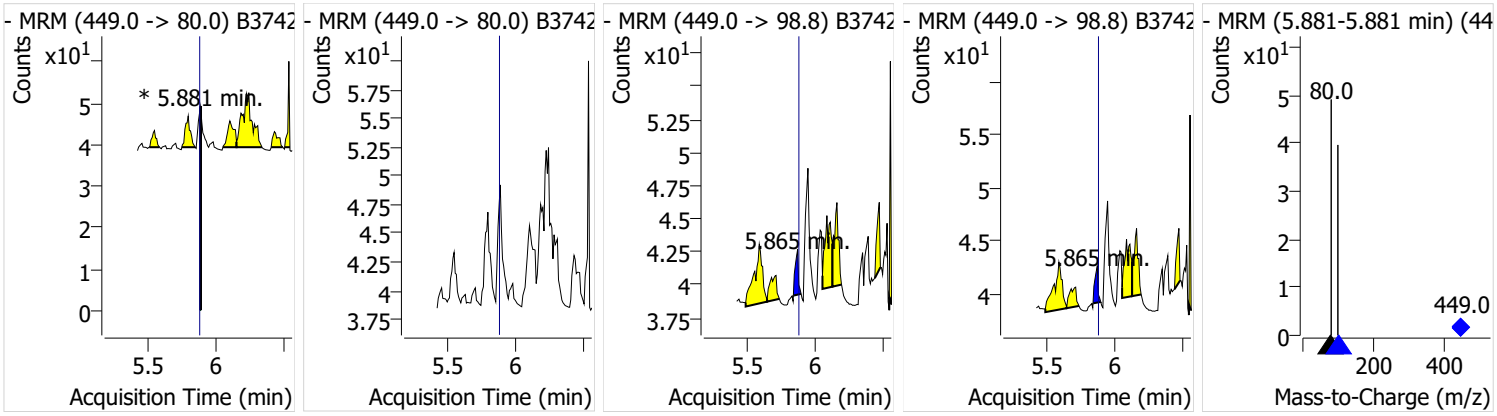

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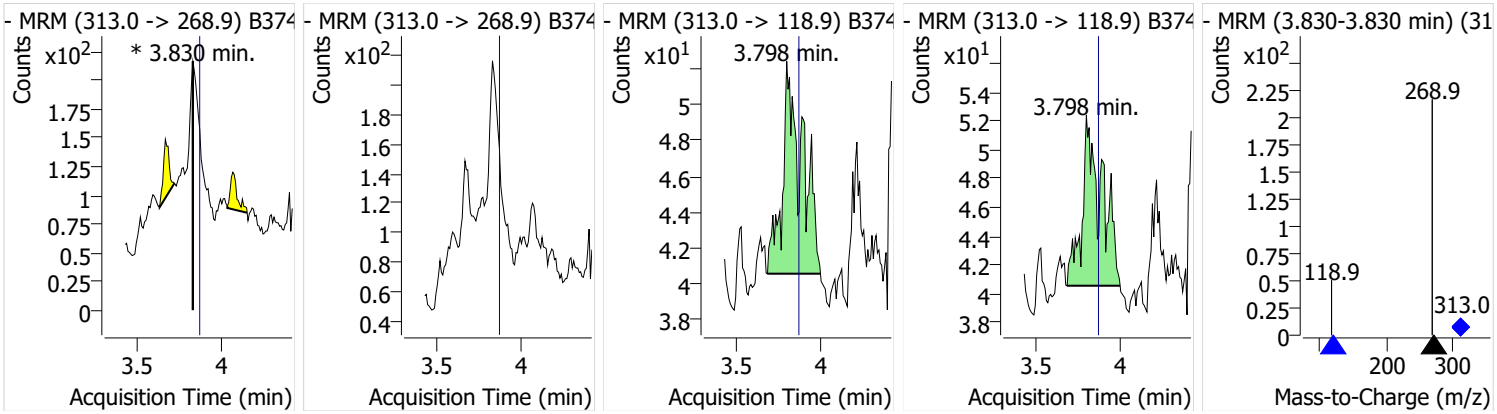

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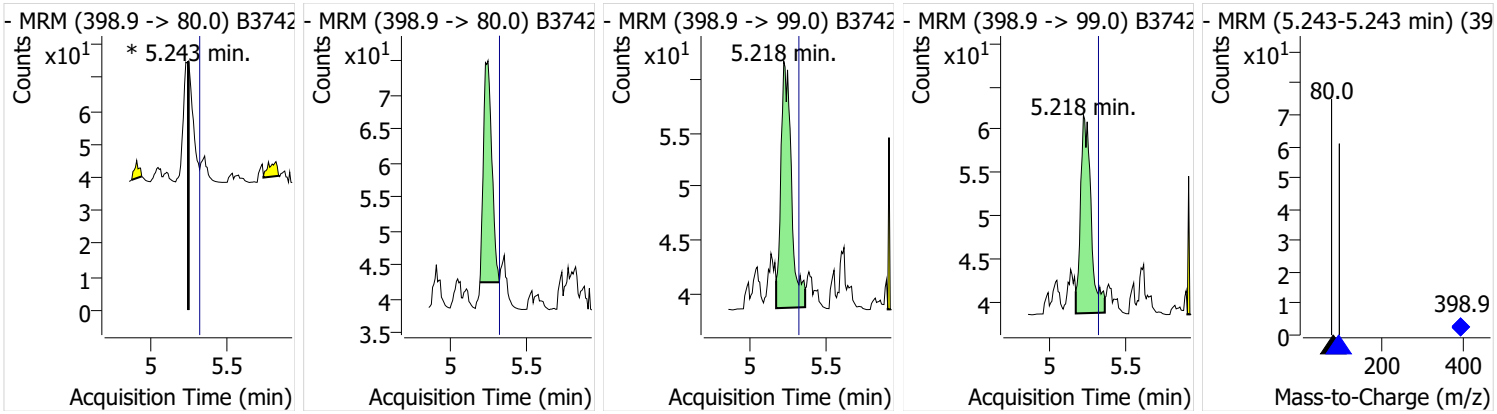

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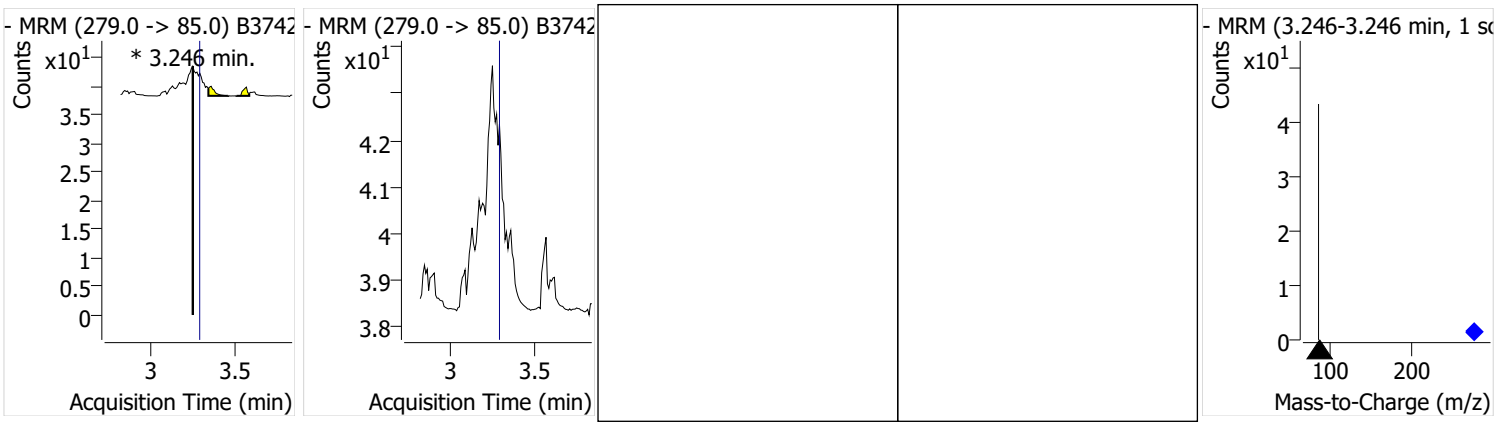

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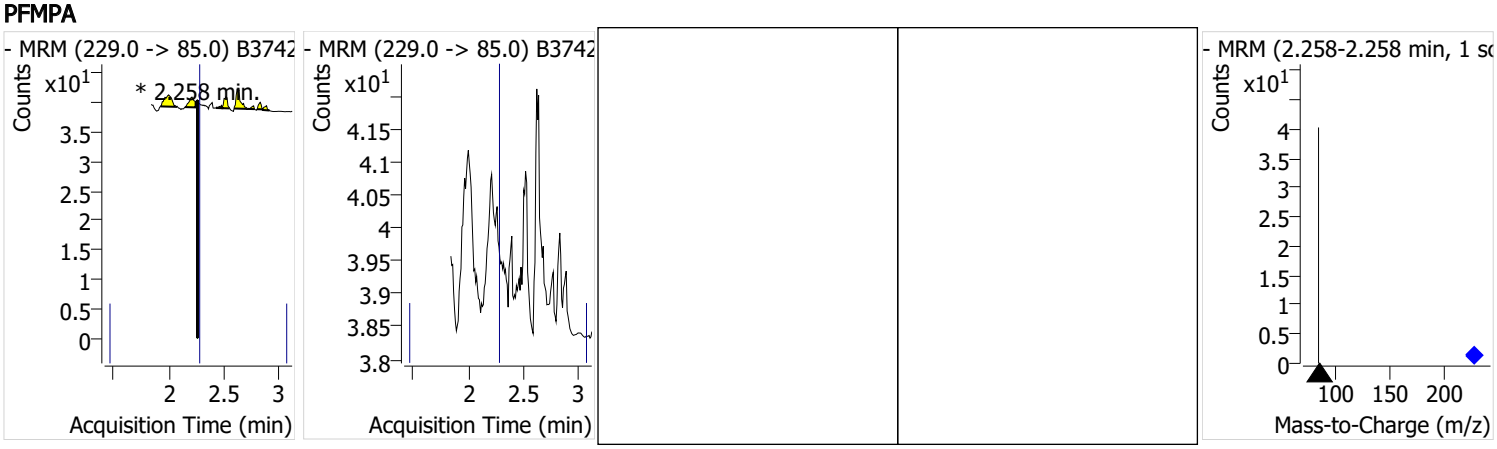

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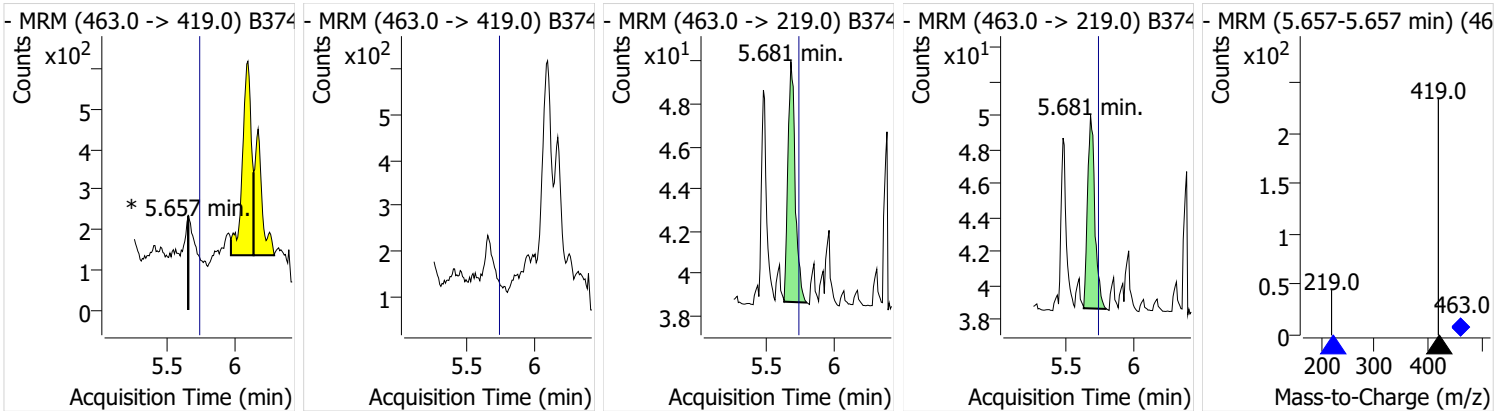
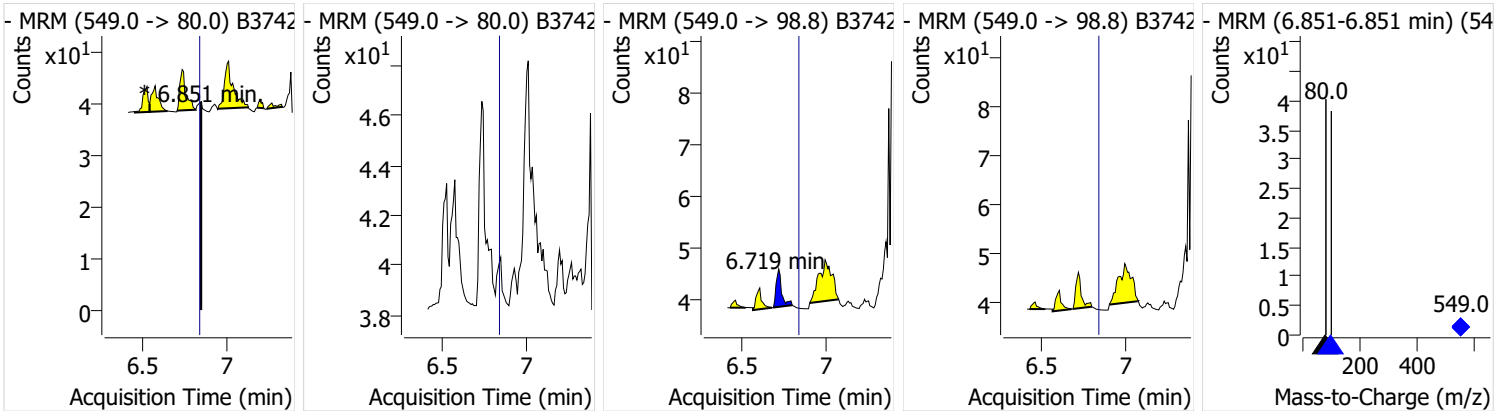
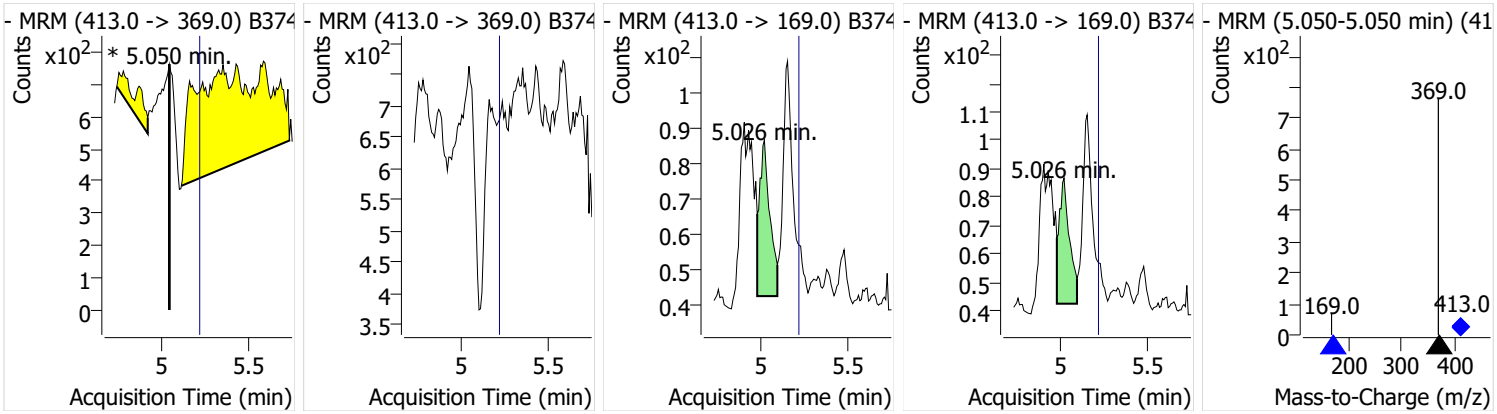


PFNS



PFOA



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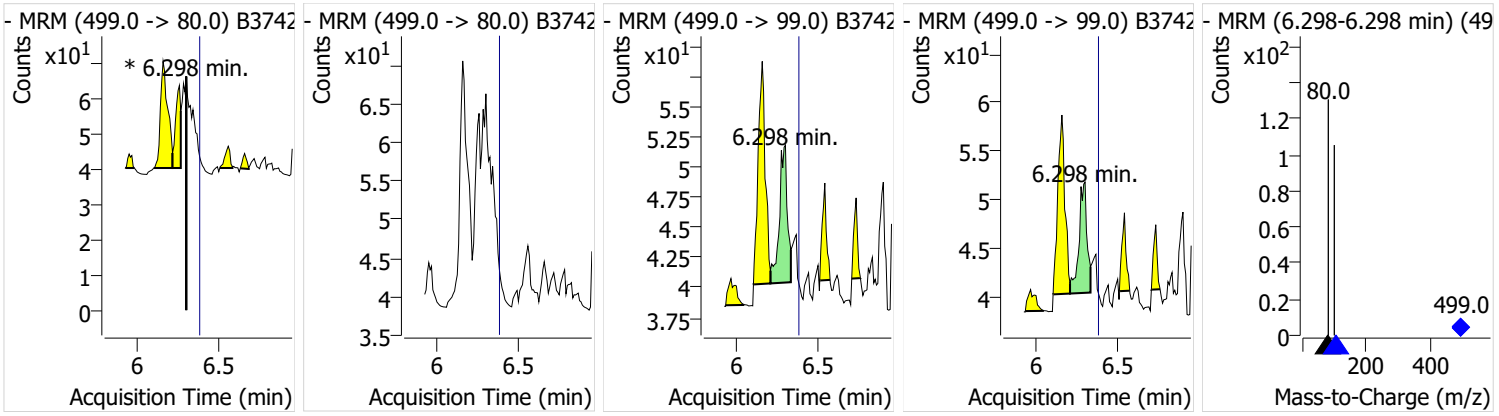

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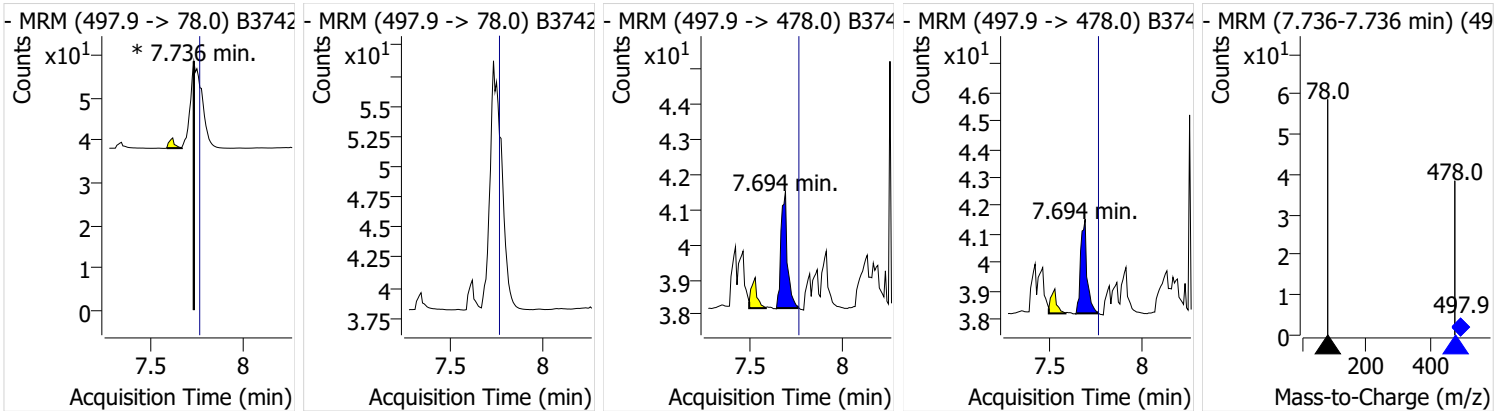

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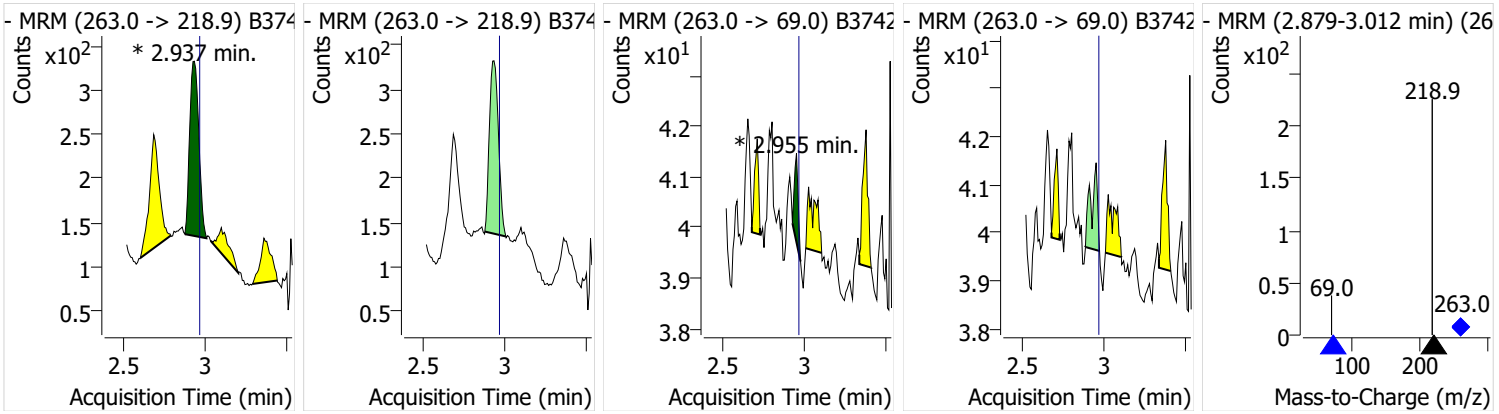

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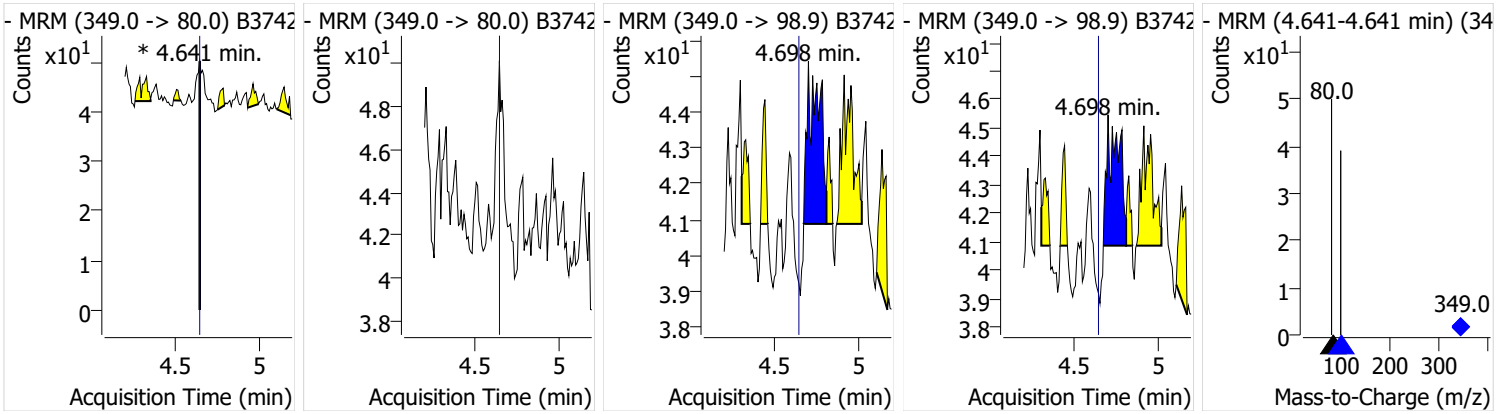

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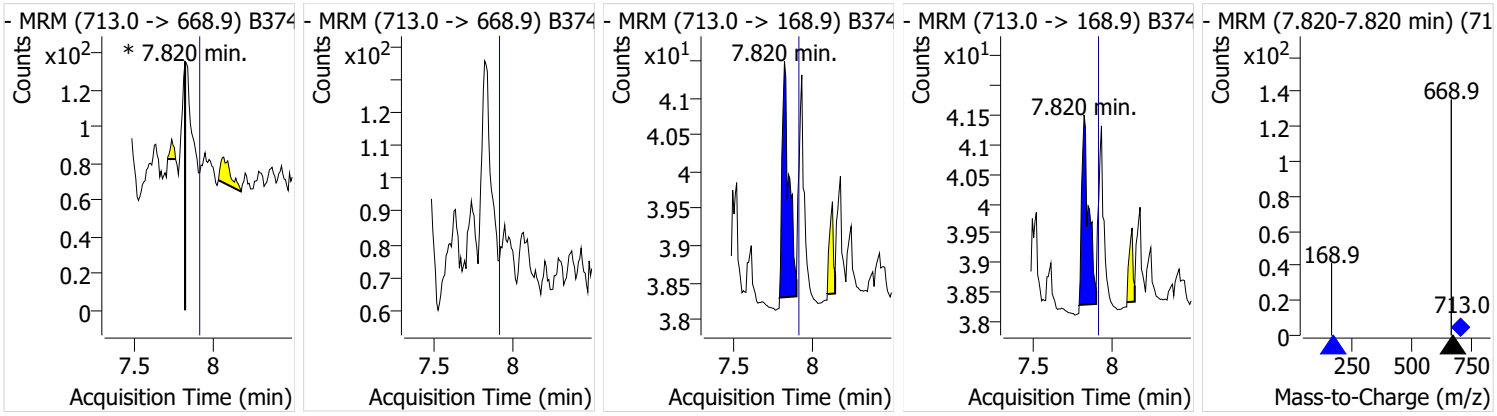

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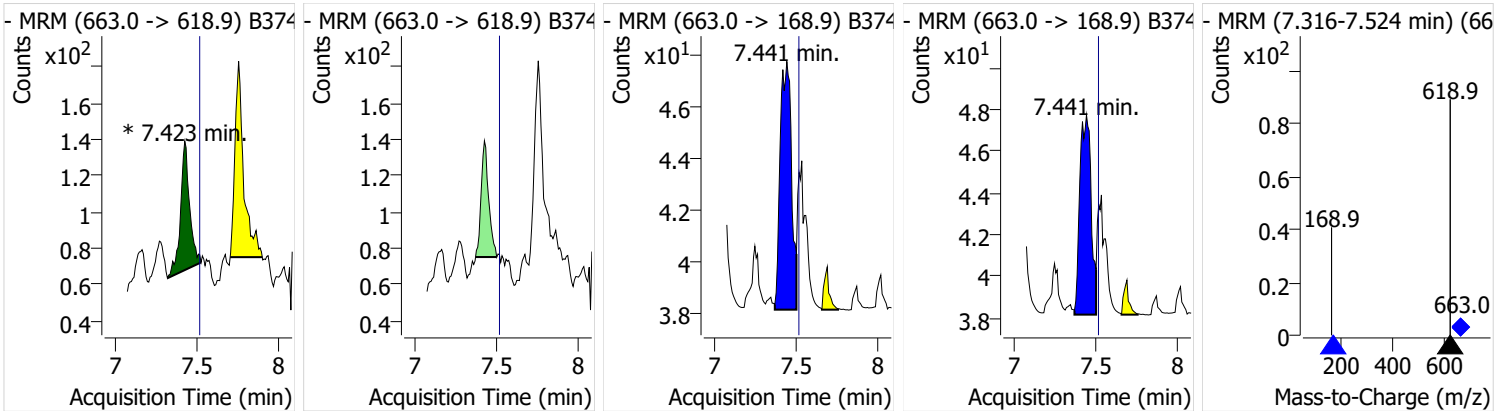

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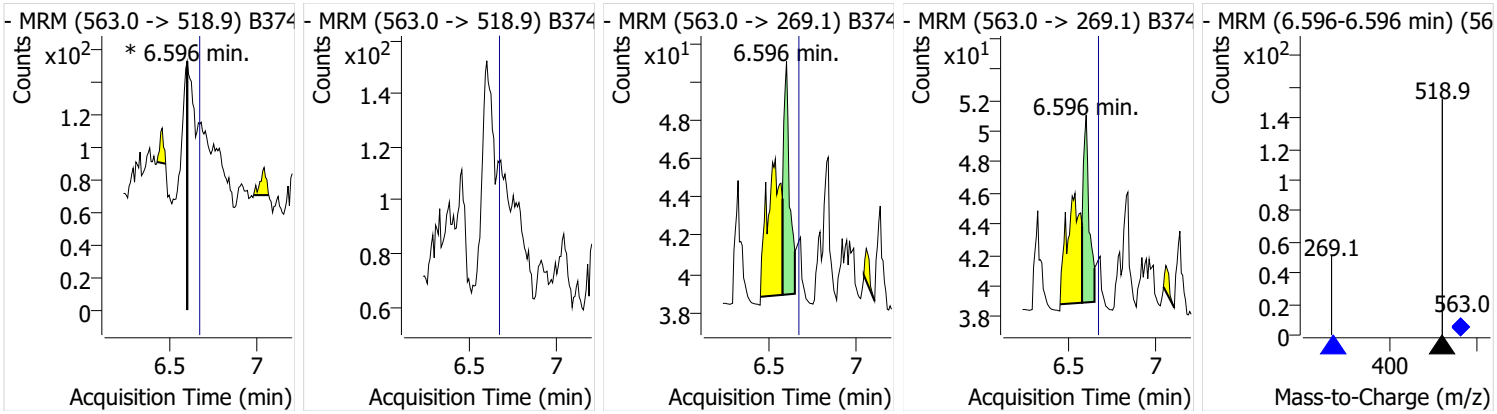

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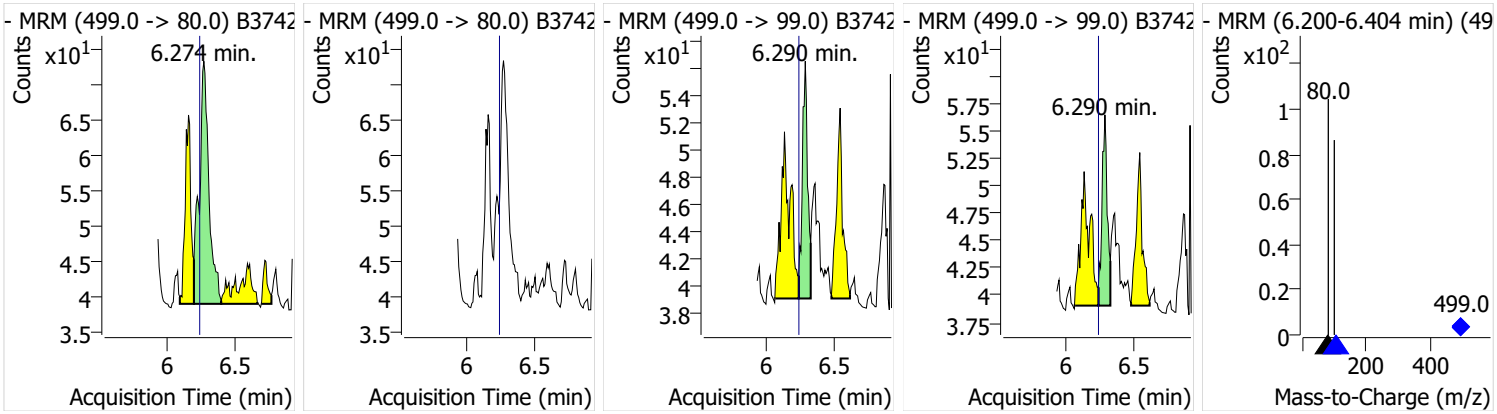
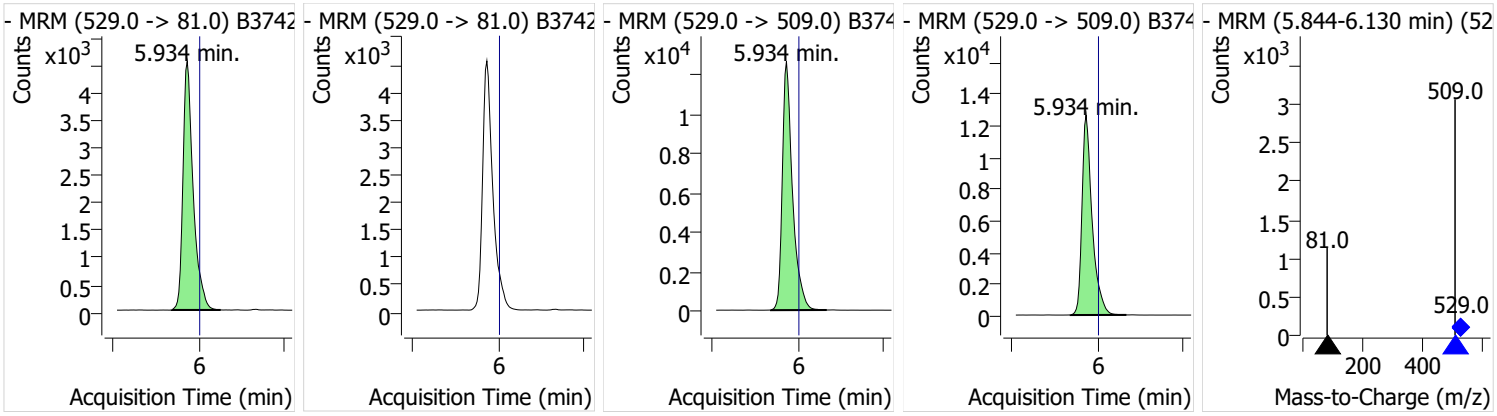
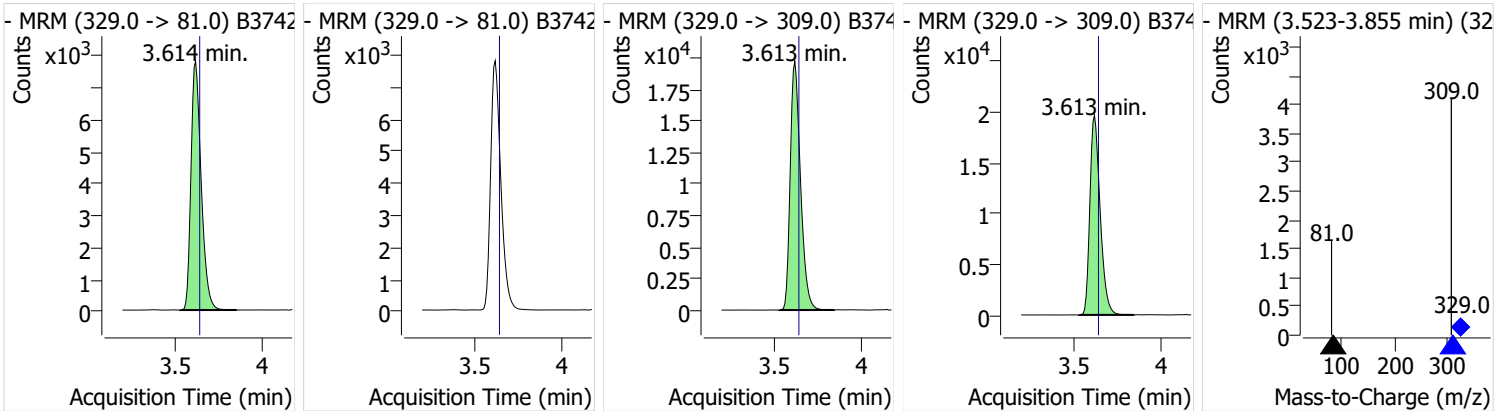


13C2-8:2FTS



13C2-4:2FTS



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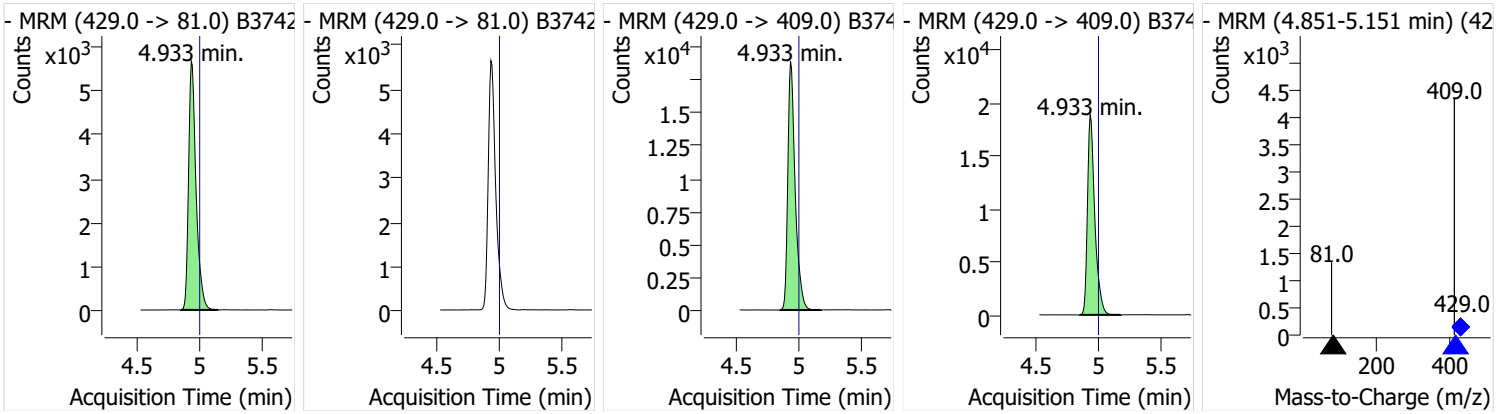

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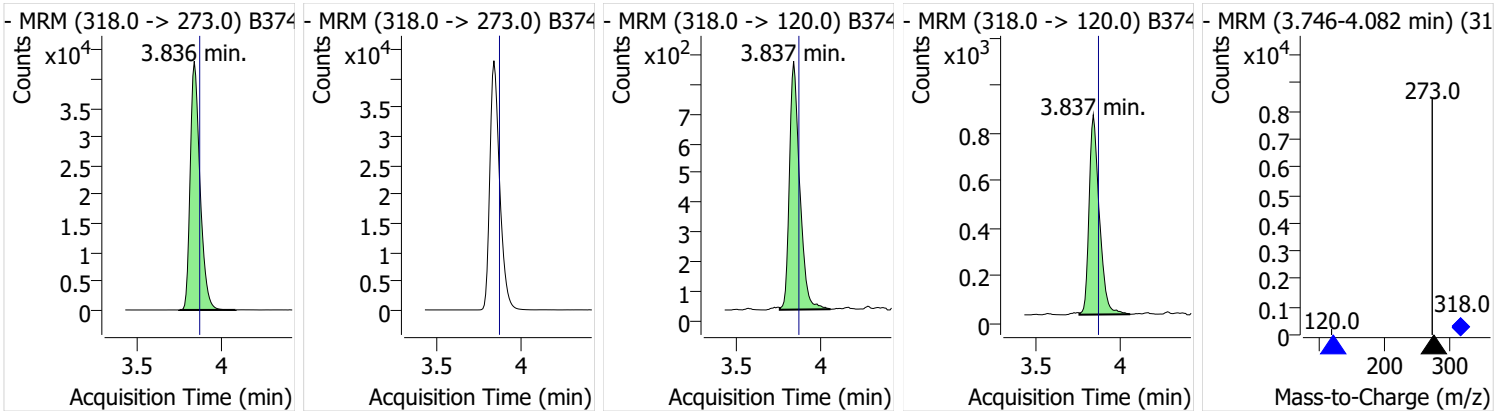

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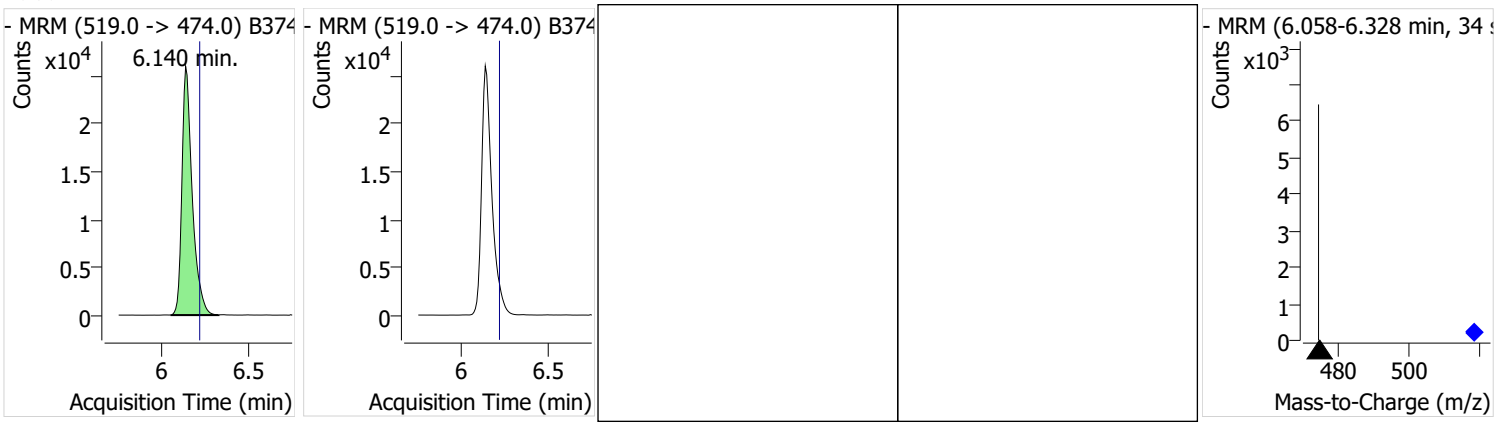

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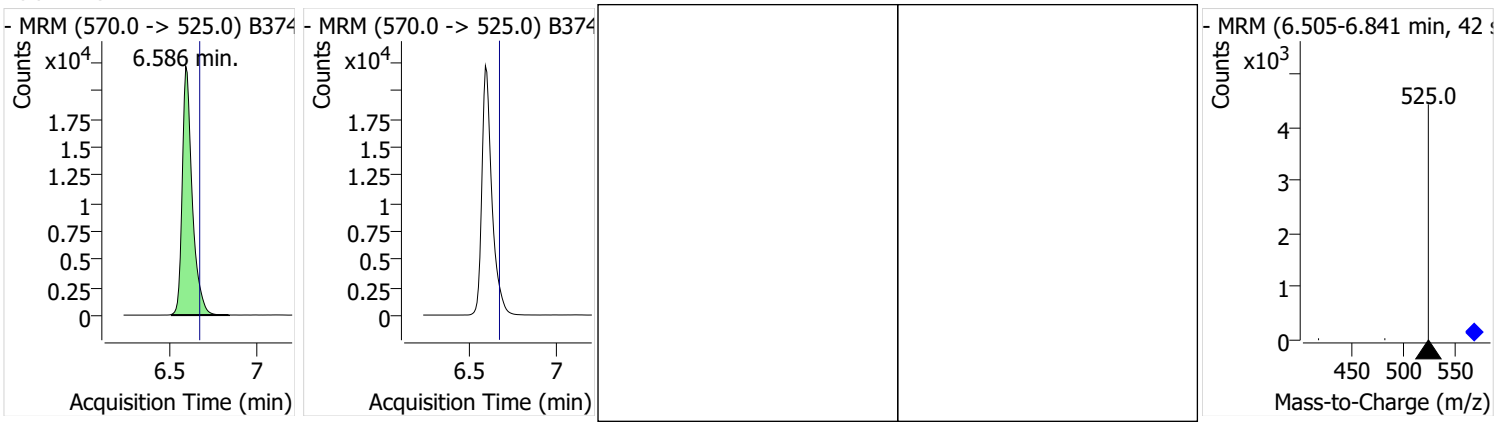
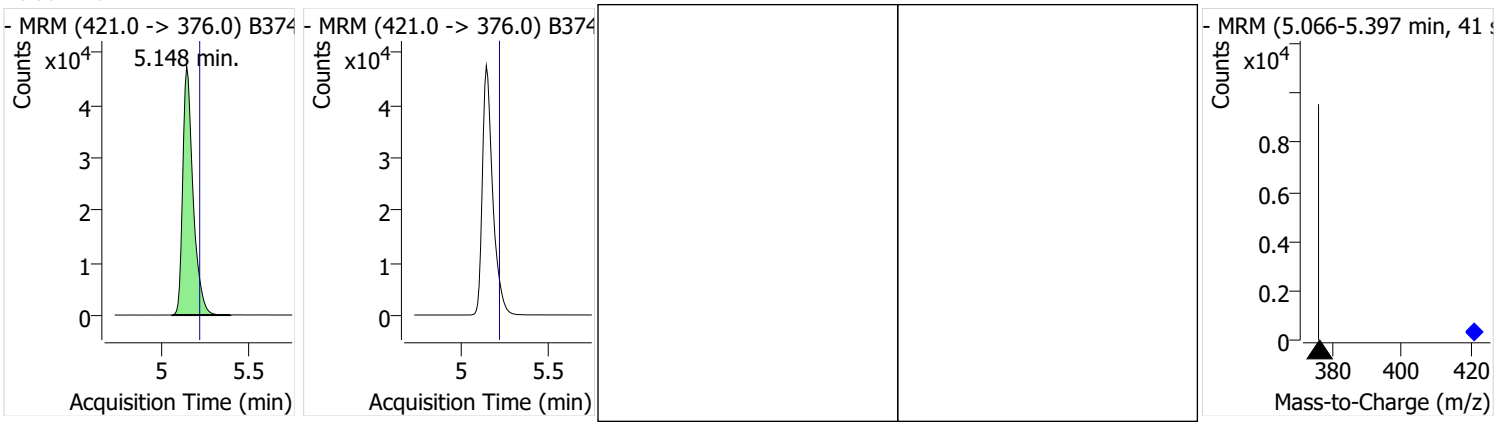


13C8-PFOA



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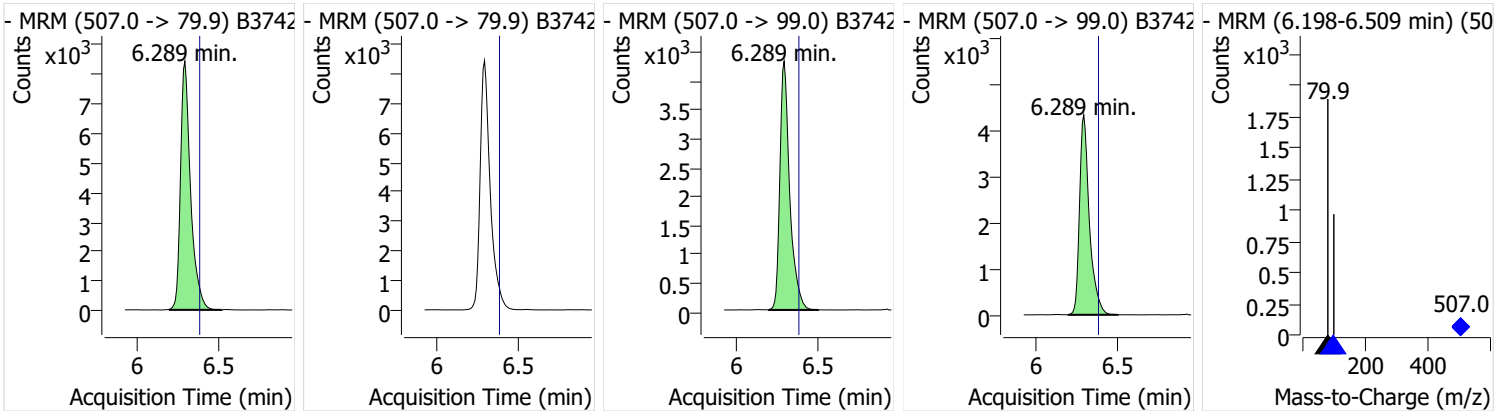

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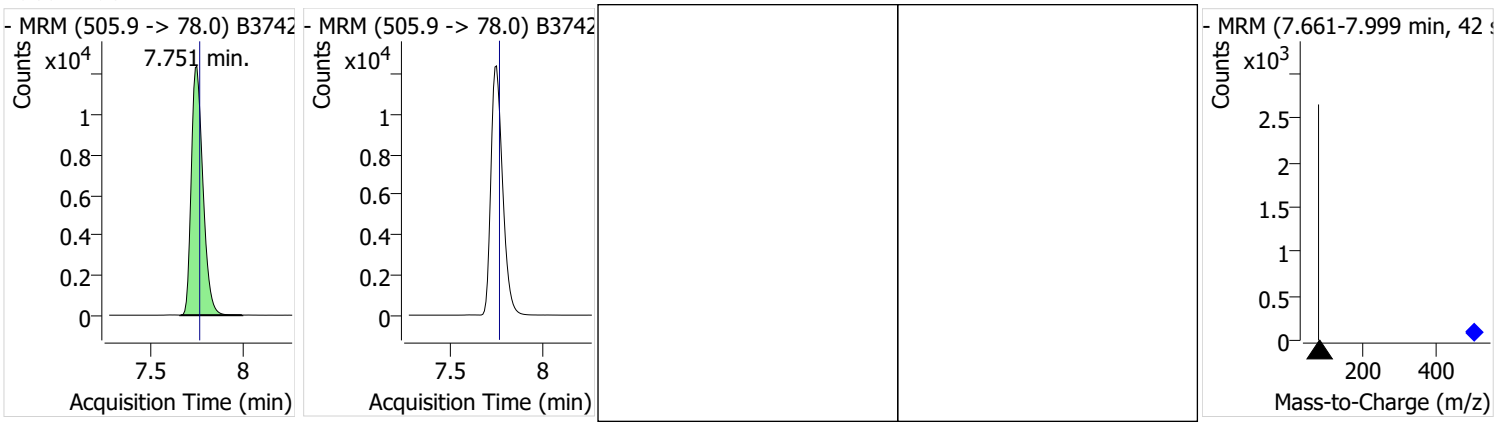

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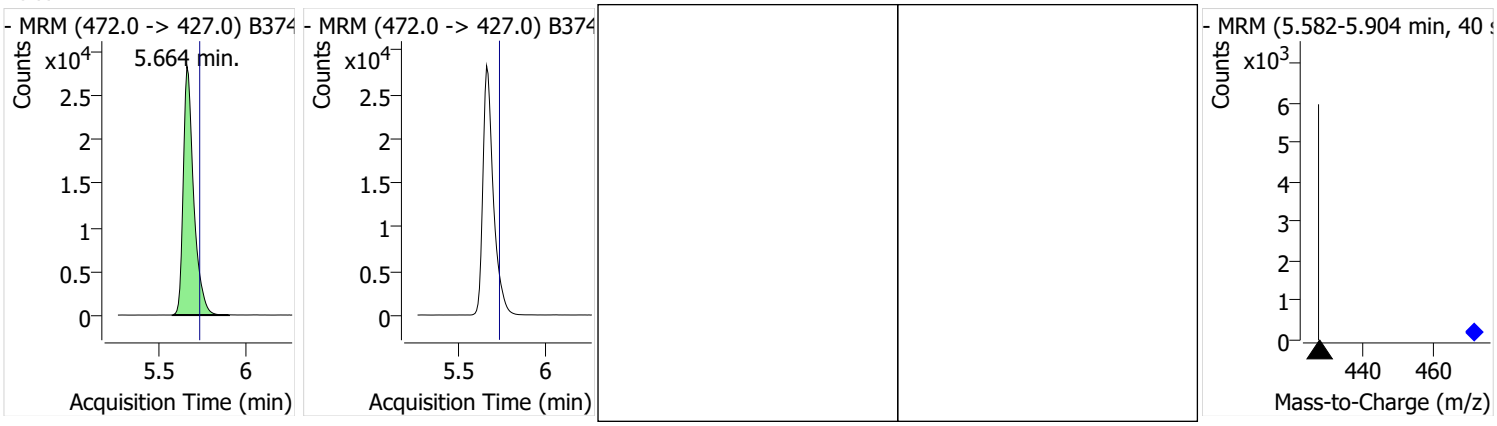
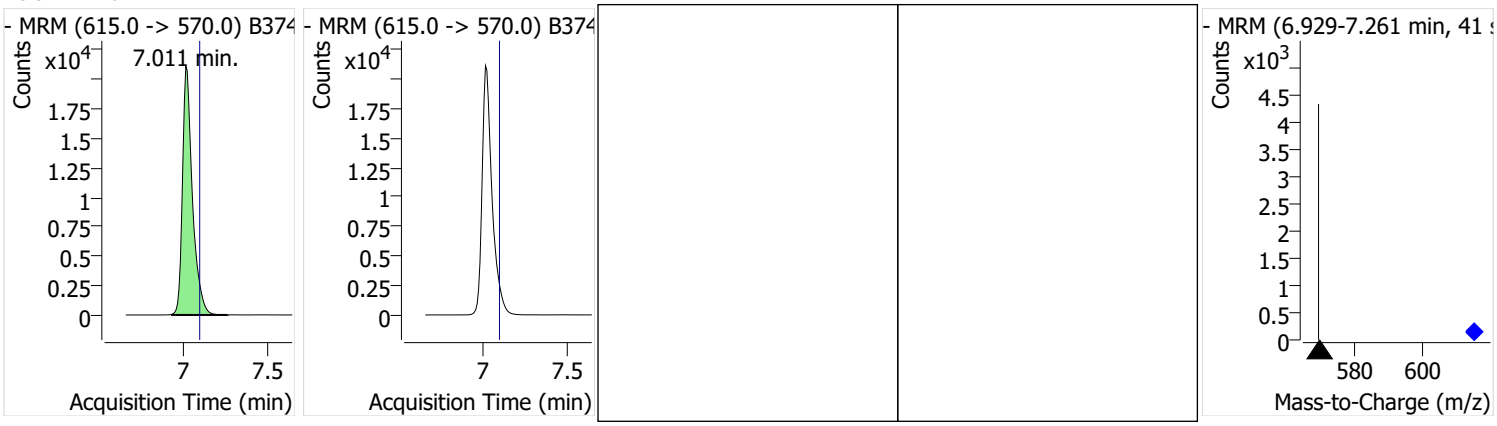


13C5-PFPeA

13C2-PFDoA



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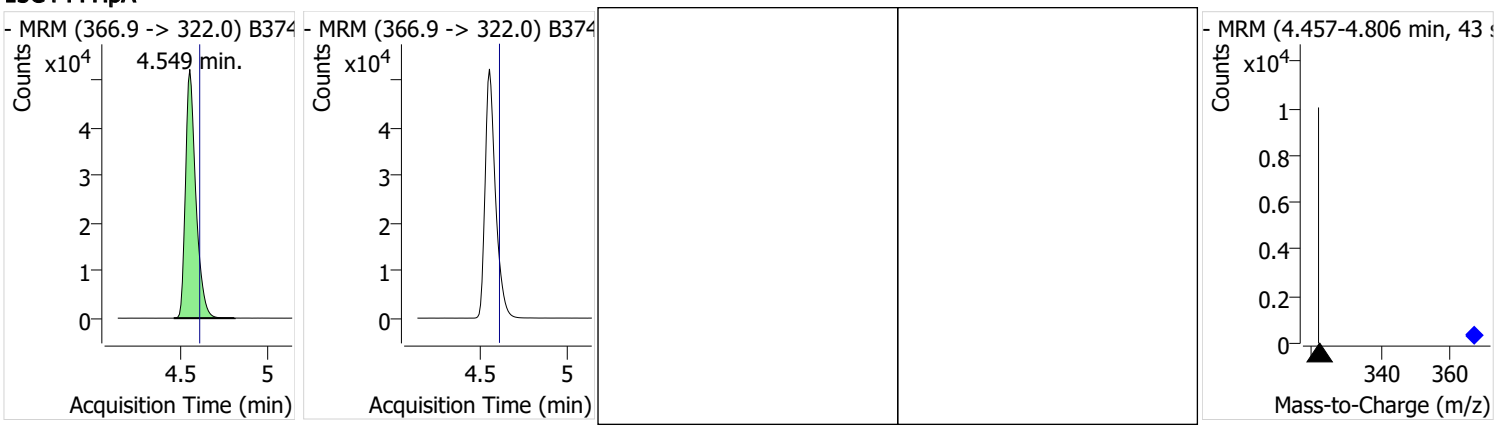

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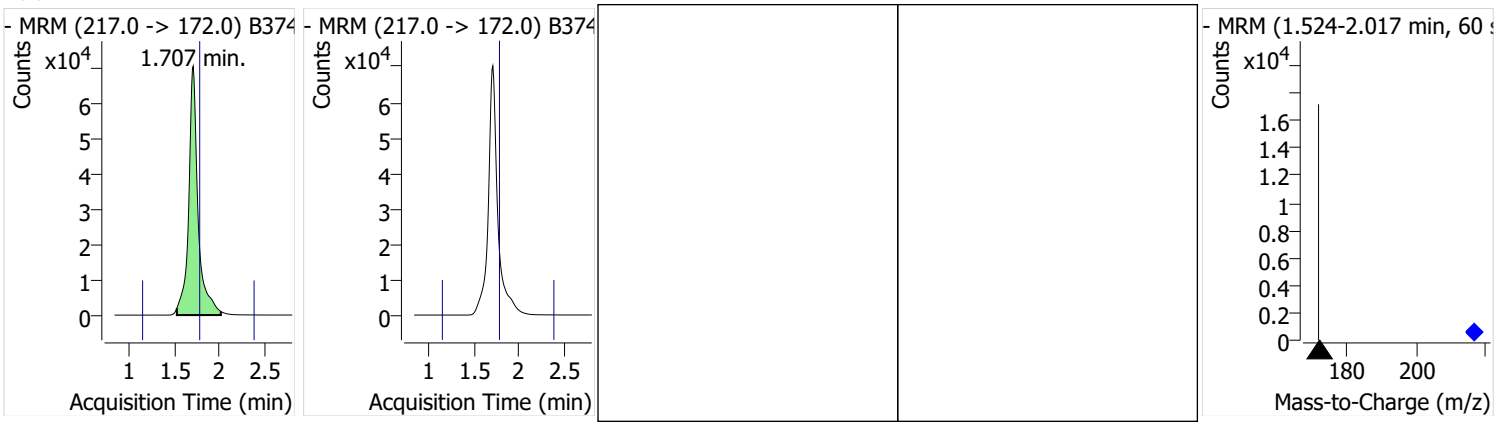

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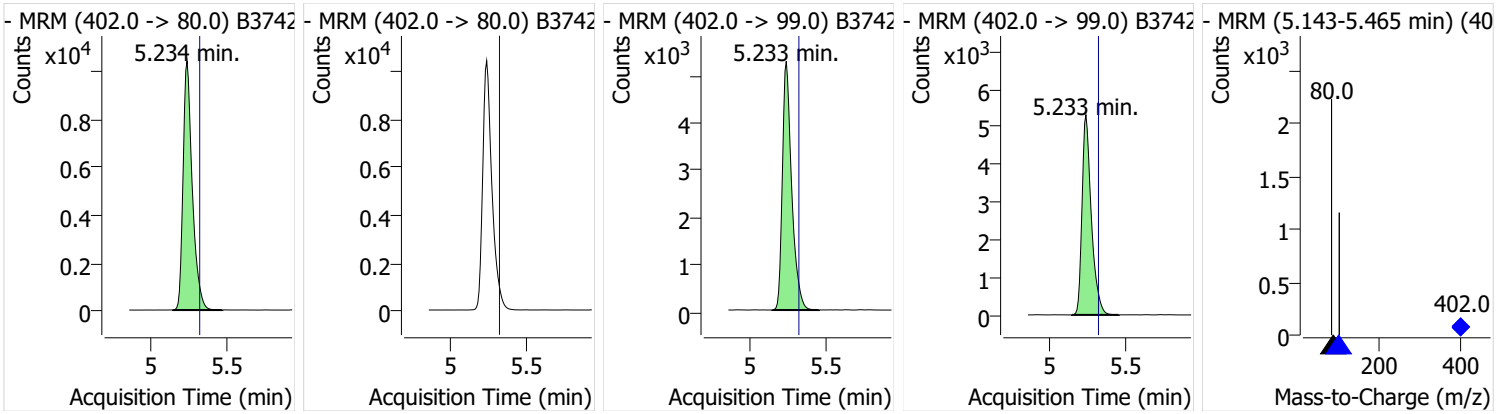

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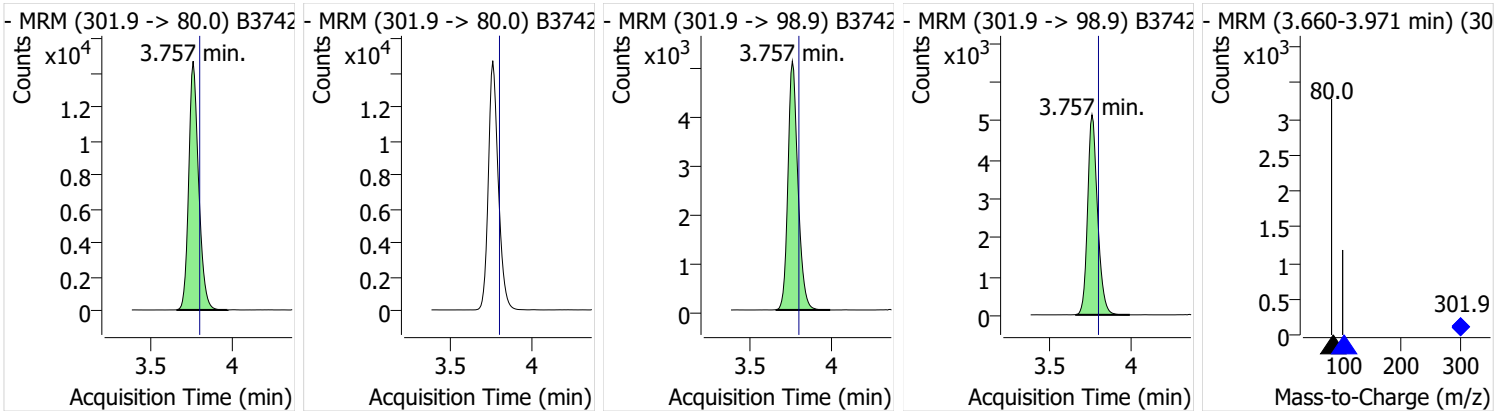

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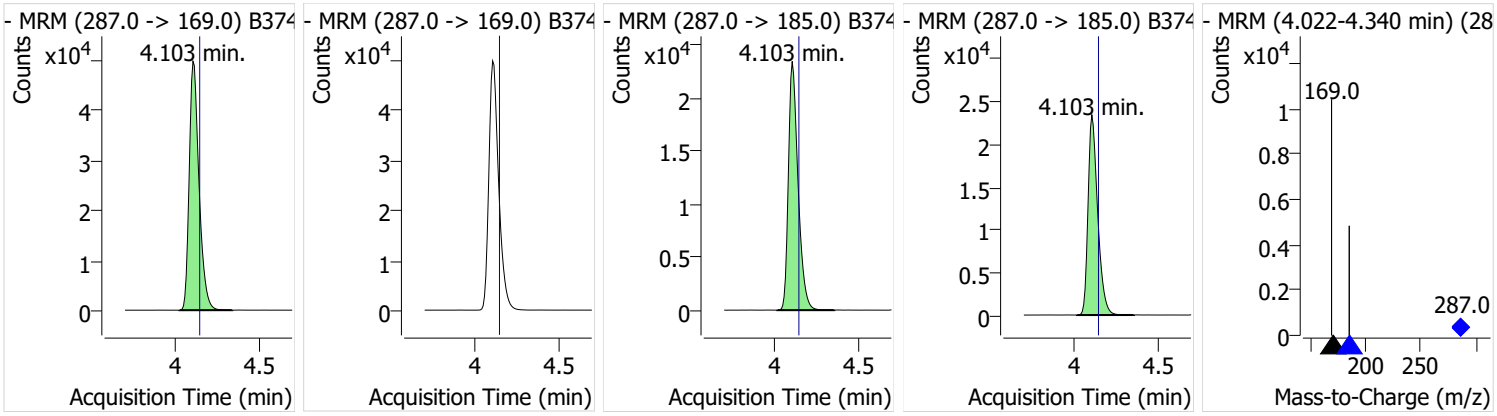

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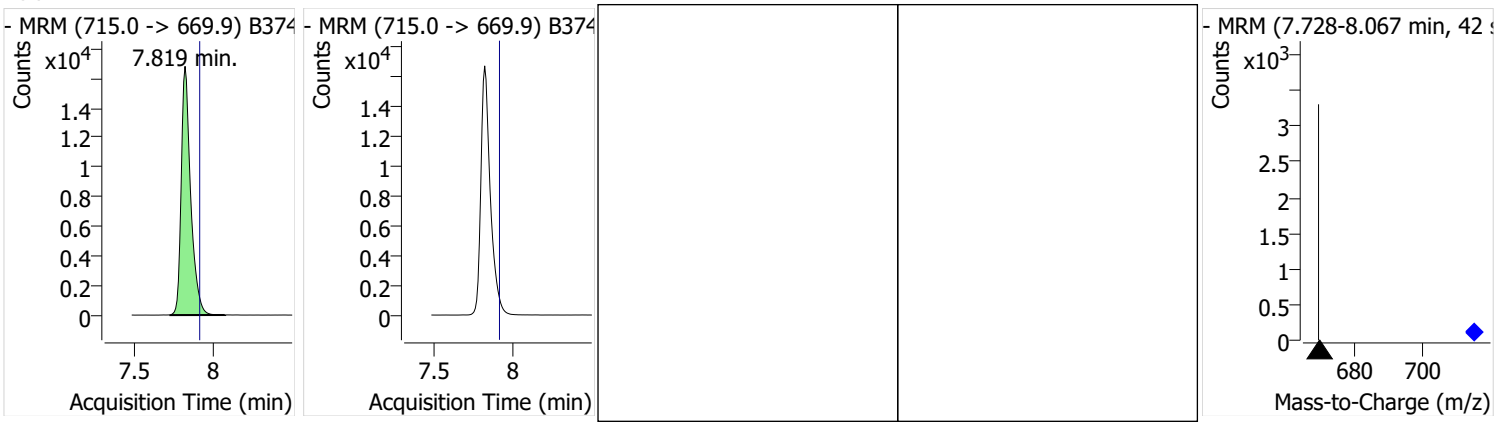
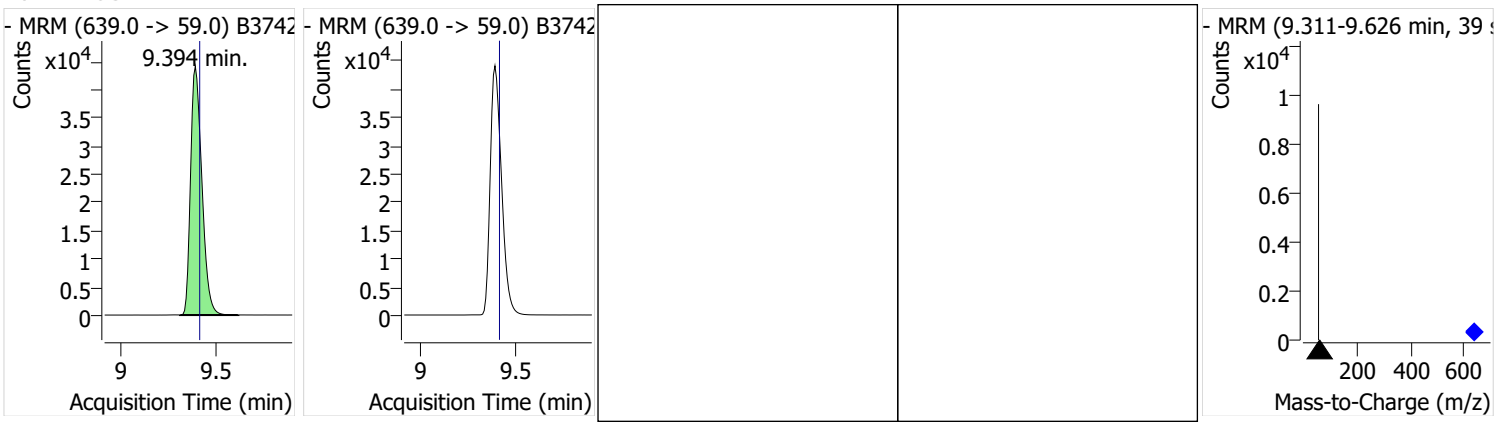
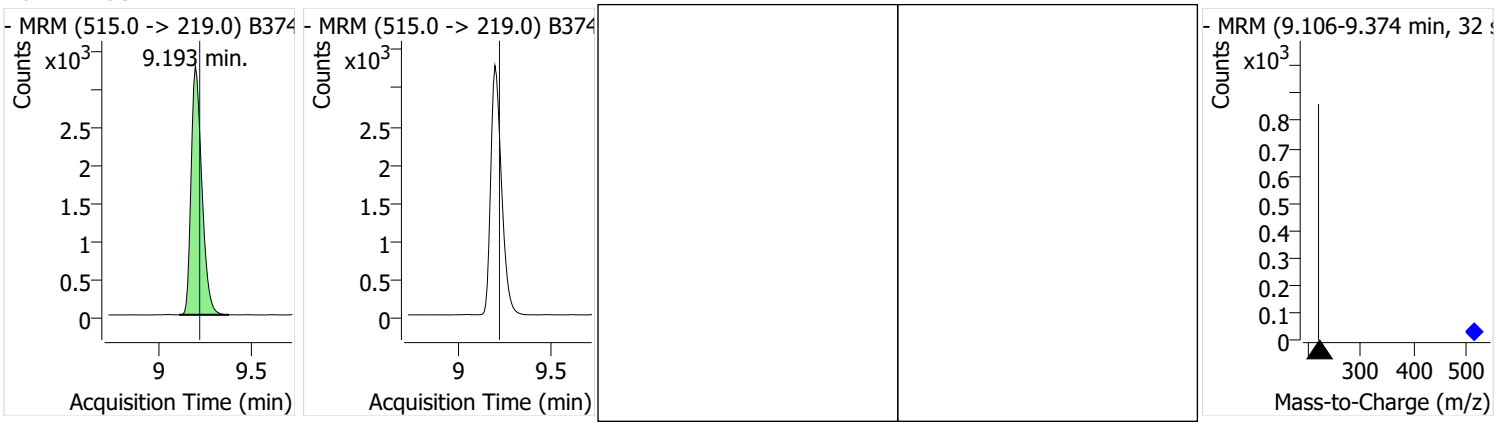


D9-NEtFOSE



D3-NMeFOSA



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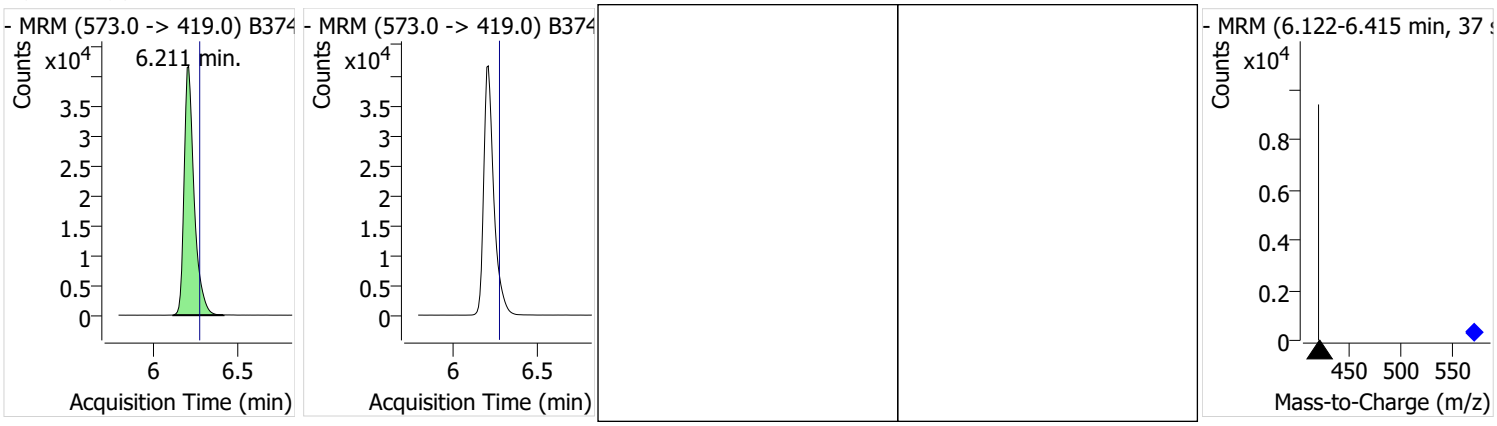

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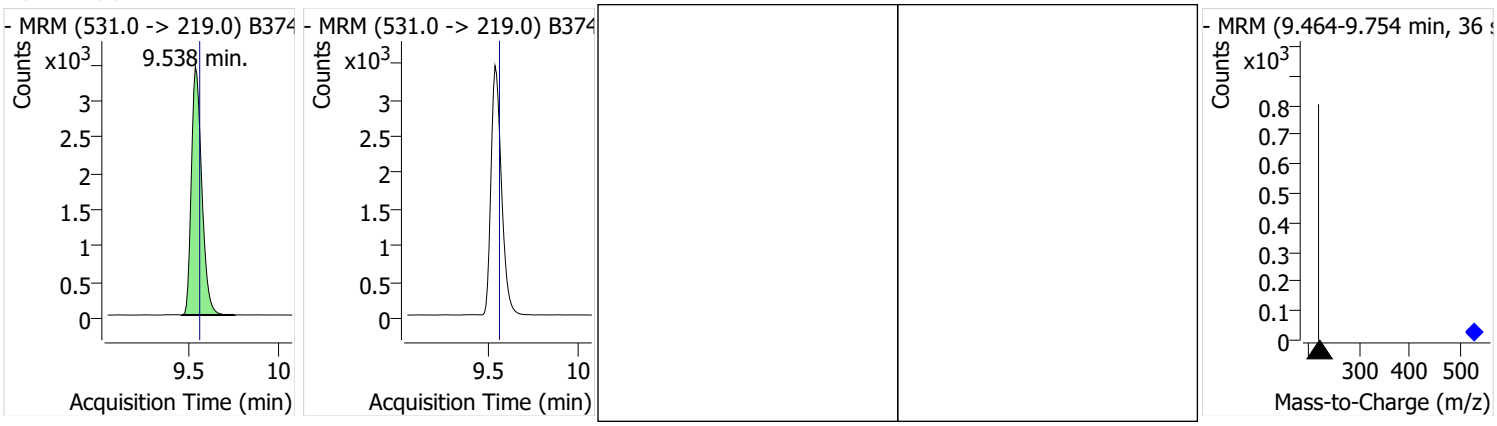
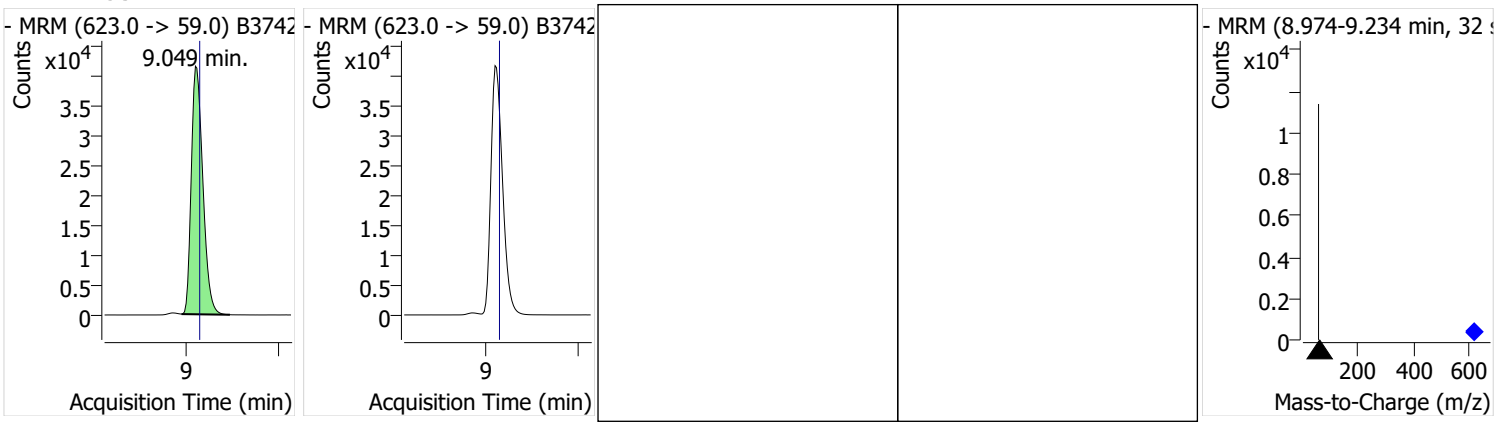


D5-NEtFOSAA

D7-NMeFOSE



1 - FORM I
ANALYSIS DATA SHEET

LCS

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374213-BS1	File ID:	B374213-BS1.d
Sampled:		Prepared:	05/15/24 00:00	Analyzed:	05/18/24 07:15
Solids:		Preparation:	Draft Method 1633	Dilution:	
Initial/Final:	5.168 g / 5 mL				
Batch:	B374213	Sequence:	S104823	Calibration:	2400518
Instrument:	QQQ6				
Column:	1				

CAS NO.	COMPOUND	CONC. (µg/kg wet)	MDL	RL	Q
375-22-4	Perfluorobutanoic acid (PFBA)	8.02	0.31	0.77	
2706-90-3	Perfluoropentanoic acid (PFPeA)	3.98	0.044	0.39	
307-24-4	Perfluorohexanoic acid (PFHxA)	1.96	0.032	0.19	
375-85-9	Perfluoroheptanoic acid (PFHpA)	1.94	0.014	0.19	
335-67-1	Perfluorooctanoic acid (PFOA)	1.96	0.030	0.19	
375-95-1	Perfluorononanoic acid (PFNA)	1.97	0.013	0.19	
335-76-2	Perfluorodecanoic acid (PFDA)	1.96	0.017	0.19	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1.95	0.023	0.19	
307-55-1	Perfluorododecanoic acid (PFDoA)	2.00	0.021	0.19	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1.96	0.021	0.19	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	1.97	0.020	0.19	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1.79	0.020	0.19	
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	1.94	0.025	0.19	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.79	0.076	0.19	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	1.92	0.021	0.19	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1.70	0.031	0.19	
68259-12-1	Perfluorononanesulfonic acid (PFNS)	1.93	0.021	0.19	
335-77-3	Perfluorodecanesulfonic acid (PFDS)	1.90	0.031	0.19	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1.85	0.030	0.19	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (	7.54	0.068	0.77	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid ((	7.44	0.49	0.77	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (	8.40	0.090	0.77	
754-91-6	Perfluorooctanesulfonamide (PFOSA)	1.97	0.030	0.19	
31506-32-8	N-methyl perfluoroocatnesulfonamide (NMeF	2.07	0.024	0.19	
4151-50-2	N-ethyl perfluorooctanesulfonamide (NEtFOS	2.09	0.023	0.19	
2355-31-9	N-MeFOSAA (NMeFOSAA)	1.87	0.035	0.19	V-05
2991-50-6	N-EtFOSAA (NEtFOSAA)	1.95	0.029	0.19	
24448-09-7	N-methylperfluorooctanesulfonamidoethanol(	23.1	0.21	1.9	
1691-99-2	N-ethylperfluorooctanesulfonamidoethanol (N	23.6	0.21	1.9	

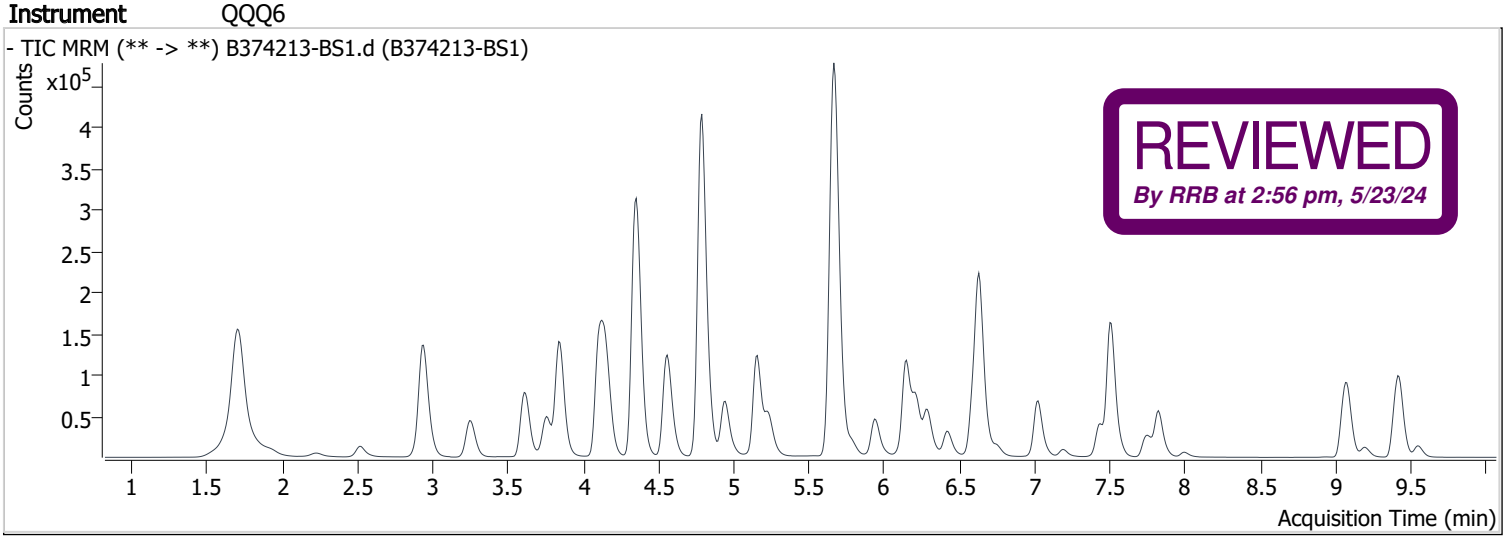
1 - FORM I
ANALYSIS DATA SHEET

LCS

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374213-BS1	File ID:	B374213-BS1.d
Sampled:		Prepared:	05/15/24 00:00	Analyzed:	05/18/24 07:15
Solids:		Preparation:	Draft Method 1633	Dilution:	
Initial/Final:	5.168 g / 5 mL				
Batch:	B374213	Sequence:	S104823	Calibration:	2400518
Instrument:	QQQ6				
Column:	1				

CAS NO.	COMPOUND	CONC. (µg/kg wet)	MDL	RL	Q
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPC	7.94	0.049	0.77	
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADON/	7.70	0.058	0.77	
756426-58-1	9Cl-PF3ONS (F53B Minor)	8.33	0.056	0.77	
763051-92-9	11Cl-PF3OUdS (F53B Major)	8.26	0.086	0.77	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)(3:3	16.7	0.18	1.9	
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)	92.5	1.3	9.7	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)(7:3	92.3	1.5	9.7	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEE	3.86	0.030	0.39	
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	3.86	0.032	0.39	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	3.99	0.032	0.39	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.47	0.058	0.39	

Batch Path	R:\Data\MAY2024\051724\QuantResults\B374213.batch.bin		
Analysis Time	5/23/2024 5:54 AM	**Last Calib Update**	5/9/2024 9:16 AM
Acq. Time	5/18/2024 7:15 AM	**Data File**	B374213-BS1.d
Sample Type	QC	**Sample Name**	B374213-BS1
Dilution	1	**Acq. Method**	1633_ACQUISITION_01.m
Sample Comment		**Processing method**	1633_050824.m
Instrument	QQQ6		



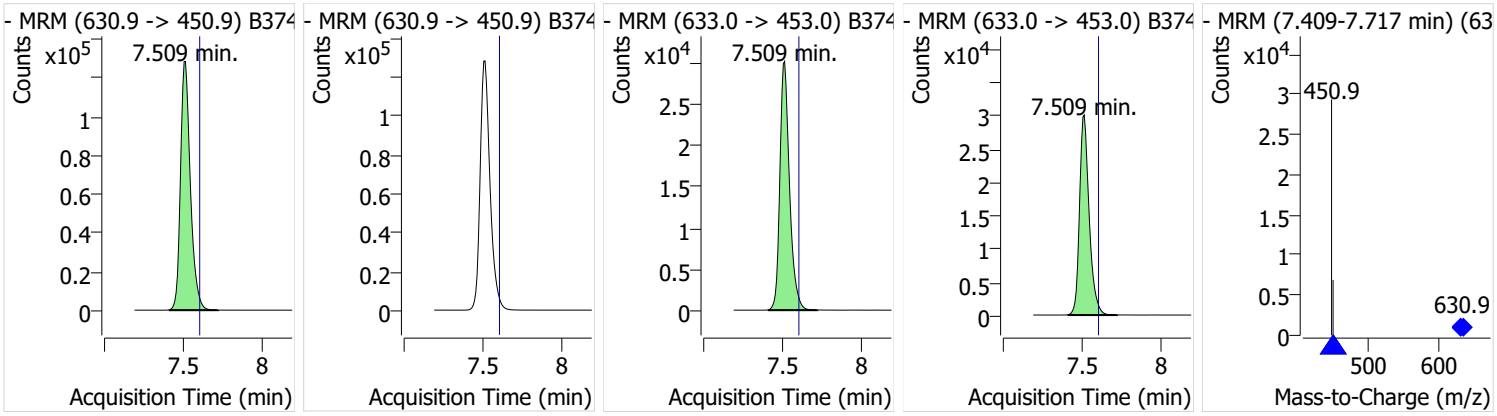
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
11Cl-PF3OUdS	7.509	559429	61316.40		13C3-HFPODA - ISTD	4.111	222117	8.5346	ng/ml			
633.0 -> 453.0			13222.58	22.8								
3:3FTCA	2.513	43480	5497.53		13C5-PFPeA - ISTD	2.928	354626	17.2503	ng/ml			
241.0 -> 117.0			1186.47	48.5								
4:2FTS	3.606	155101	23476.94		13C2-4:2FTS - ISTD	3.614	34085	7.7953	ng/ml			
327.0 -> 80.9			10376.96	38.9								
5:3FTCA	4.351	741137	13407.02		13C5-PFHxA - ISTD	3.844	194467	95.6443	ng/ml			
341.0 -> 217.0			15702.55	88.5								
6:2FTS	4.942	128015	8796.19		13C2-6:2FTS - ISTD	4.933	24578	7.6890	ng/ml			
427.0 -> 80.9			3299.49	32.8								
7:3FTCA	5.666	870289	17146.64		13C5-PFHxA - ISTD	3.844	194467	95.3674	ng/ml			
441.0 -> 317.0			11460.94	90.5								
8:2FTS	5.935	84721	10871.93		13C2-8:2FTS - ISTD	5.942	19123	8.6783	ng/ml			
527.0 -> 81.0			8053.70	40.9								
9Cl-PF3ONS	6.630	630756	25160.77		13C3-HFPODA - ISTD	4.111	222117	8.6050	ng/ml			
533.0 -> 353.0			3933.01	30.3								
ADONA	4.789	1313118	35631.58		13C3-HFPODA - ISTD	4.111	222117	7.9567	ng/ml			
377.0 -> 85.1			36758.50	35.6								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA	4.112	167644	20260.29		13C3-HFPODA - ISTD	4.111	222117	8.2017	ng/ml			
285.0 -> 184.9			7420.62	55.8								
NEtFOSA	9.548	18567	13562.20		D5-NEtFOSA - ISTD	9.546	16519	2.1634	ng/ml			
526.0 -> 219.0			7587.49	93.8								
NEtFOSAA	6.423	38688	3143.21		D5-NEtFOSAA - ISTD	6.414	77240	2.0692	ng/ml	✔	3	ALB 5/22/24
584.0 -> 526.0			2786.19	66.6								
NEtFOSE	9.420	239218	128064.17		D9-NEtFOSE - ISTD	9.394	219380	24.4068	ng/ml			
NFDHA	3.750	30373	5473.15		13C5-PFHxA - ISTD	3.844	194467	4.6202	ng/ml			
295.0 -> 85.0			1669.45	33.5								
NMeFOSA	9.203	16217	32851.32		D3-NMeFOSA - ISTD	9.193	15629	2.1422	ng/ml			
512.0 -> 219.0			13302.72	90.8								
NMeFOSAA	6.212	31001	3970.21		D3-NMeFOSAA - ISTD	6.211	188655	1.9378	ng/ml	✔	3	ALB 5/22/24
570.0 -> 418.9			3767.91	68.7								
NMeFOSE	9.074	213129	64448.91		D7-NMeFOSE - ISTD	9.057	206825	23.8659	ng/ml			
PFBA	1.704	425316	14360.65		13C4-PFBA - ISTD	1.707	555905	8.2886	ng/ml	✔	3	ALB 5/22/24
PFBS	3.758	61812	9763.70		13C3-PFBS - ISTD	3.757	67106	1.8453	ng/ml			
298.9 -> 98.8			4850.17	39.8								
PFDA	6.149	197926	3558.07		13C6-PFDA - ISTD	6.148	118308	2.0301	ng/ml			
513.0 -> 219.0			6581.54	15.9								
PFDoA	7.020	170297	5498.19		13C2-PFDoA - ISTD	7.020	99281	2.0694	ng/ml			
613.0 -> 319.0			15968.68	12.9								
PFDoS	7.995	14226	15076.64		13C8-PFOS - ISTD	6.289	37305	1.9135	ng/ml			
698.9 -> 99.0			7902.14	63.5								
PFDS	7.189	23849	4929.58		13C8-PFOS - ISTD	6.289	37305	1.9622	ng/ml			
599.0 -> 98.8			6717.94	57.9								
PFEESA	4.157	390502	45444.97		13C5-PFHxA - ISTD	3.844	194467	3.9899	ng/ml			
315.0 -> 83.0			7583.33	7.1								
PFHpA	4.558	199961	8245.51		13C4-PFHpA - ISTD	4.549	239023	2.0071	ng/ml			
362.9 -> 169.0			5547.12	17.5								
PFHpS	5.791	38963	4957.35		13C8-PFOS - ISTD	6.289	37305	1.9814	ng/ml			
449.0 -> 98.8			2074.36	52.0								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFHxA	3.838	160390	4442.44		13C5-PFHxA - ISTD	3.844	194467	2.0286	ng/ml			
313.0 -> 118.9			854.40	3.5								
PFHxS	5.235	40570	4302.26		13C3-PFHxS - ISTD	5.234	48485	1.8534	ng/ml	✔	3	ALB 5/22/24
398.9 -> 99.0			3523.82	45.0								
PFMBA	3.246	201254	46786.32		13C5-PFPeA - ISTD	2.928	354626	4.1219	ng/ml			
PFMPA	2.225	30971	4161.09		13C5-PFPeA - ISTD	2.928	354626	3.9903	ng/ml			
PFNA	5.673	210074	5059.65		13C9-PFNA - ISTD	5.672	128481	2.0335	ng/ml			
463.0 -> 219.0			9283.58	20.6								
PFNS	6.752	30349	6427.49		13C8-PFOS - ISTD	6.289	37305	1.9984	ng/ml			
549.0 -> 98.8			2855.35	52.9								
PFOA	5.157	218032	1446.30		13C8-PFOA - ISTD	5.156	213950	2.0298	ng/ml			
413.0 -> 169.0			4337.76	24.2								
PFOS	6.290	34162	2534.41		13C8-PFOS - ISTD	6.289	37305	1.7619	ng/ml	✔	3	ALB 5/22/24
499.0 -> 99.0			3777.28	49.7								
PFOSA	7.753	54688	353859.54		13C8-PFOSA - ISTD	7.751	60962	2.0317	ng/ml			
497.9 -> 478.0			1169.06	3.3								
PFPeA	2.937	294630	3874.07		13C5-PFPeA - ISTD	2.928	354626	4.1137	ng/ml			
263.0 -> 69.0			285.59	0.3								
PFPeS	4.576	50446	5027.57		13C3-PFHxS - ISTD	5.234	48485	2.0078	ng/ml			
349.0 -> 98.9			5386.08	46.6								
PFTeDA	7.820	132114	6645.49		13C2-PFTeDA - ISTD	7.819	80690	2.0349	ng/ml			
713.0 -> 168.9			4136.60	7.7								
PFTrDA	7.423	142236	5286.55		13C2-PFDoA - ISTD	7.020	99281	2.0289	ng/ml			
663.0 -> 168.9			7023.71	12.4								
PFUnA	6.596	161279	5255.38		13C7-PFUnA - ISTD	6.595	99457	2.0177	ng/ml			
563.0 -> 269.1			6374.60	17.6								
TDCA	6.290	26549	2626.00					-	ng/ml			
499.0 -> 99.0			2733.89	***60.2**								
13C2-8:2FTS	5.942	19123	10261.29		18O2-PFHxS	5.241	53621	5.4257	ng/ml			
529.0 -> 509.0			9920.51	307.8								
13C2-4:2FTS	3.614	34085	5349.90		18O2-PFHxS	5.241	53621	5.3118	ng/ml			
329.0 -> 309.0			8280.01	271.1								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
13C2-6:2FTS	4.933	24578	7171.10		18O2-PFHxS	5.241	53621	5.6682	ng/ml			
429.0 -> 409.0			9755.86	356.4								
13C5-PFHxA	3.844	194467	51865.32		13C2-PFHxA	3.837	209607	2.2514	ng/ml			
318.0 -> 120.0			865.79	1.8								
13C6-PFDA	6.148	118308	10262.38		13C2-PFDA	6.148	131226	1.1426	ng/ml			
13C7-PFUnA	6.595	99457	9549.54		13C2-PFDA	6.148	131226	1.1865	ng/ml			
13C8-PFOA	5.156	213950	30407.30		13C4-PFOA	5.157	34293	2.2757	ng/ml			
13C8-PFOS	6.289	37305	5550.54		13C4-PFOS	6.290	44315	2.3416	ng/ml			
507.0 -> 99.0			4927.23	52.0								
13C8-PFOSA	7.751	60962	520870.02		13C4-PFOS	6.290	44315	2.1757	ng/ml			
13C9-PFNA	5.672	128481	8208.38		13C5-PFNA	5.673	163777	1.1504	ng/ml			
13C5-PFPeA	2.928	354626	9202.45		13C2-PFHxA	3.837	209607	4.5812	ng/ml			
13C2-PFDoA	7.020	99281	11909.87		13C2-PFDA	6.148	131226	1.1476	ng/ml			
13C4-PFHpA	4.549	239023	39365.84		13C2-PFHxA	3.837	209607	2.4739	ng/ml			
13C4-PFBA	1.707	555905	142185.76		13C3-PFBA	1.701	285157	8.9790	ng/ml			
13C3-PFHxS	5.234	48485	15481.04		18O2-PFHxS	5.241	53621	2.2142	ng/ml			
402.0 -> 99.0			5981.48	50.3								
13C3-PFBS	3.757	67106	7199.02		18O2-PFHxS	5.241	53621	2.3156	ng/ml			
301.9 -> 98.9			6089.83	36.0								
13C3-HFPODA	4.111	222117	19469.75		13C2-PFHxA	3.837	209607	9.1935	ng/ml			
287.0 -> 185.0			9543.32	47.0								
13C2-PFTeDA	7.819	80690	12955.67		13C2-PFDA	6.148	131226	1.0832	ng/ml			
D9-NEtFOSE	9.394	219380	48897.51		13C4-PFOS	6.290	44315	18.8275	ng/ml			
D3-NMeFOSA	9.193	15629	7350.63		13C4-PFOS	6.290	44315	1.7390	ng/ml			
D3-NMeFOSAA	6.211	188655	25690.37		13C4-PFOS	6.290	44315	6.5716	ng/ml			
D5-NEtFOSA	9.546	16519	6446.87		13C4-PFOS	6.290	44315	1.7621	ng/ml			
D5-NEtFOSAA	6.414	77240	7542.11		13C4-PFOS	6.290	44315	5.3172	ng/ml			
D7-NMeFOSE	9.057	206825	75269.95		13C4-PFOS	6.290	44315	18.9932	ng/ml			

11Cl-PF3OUdS



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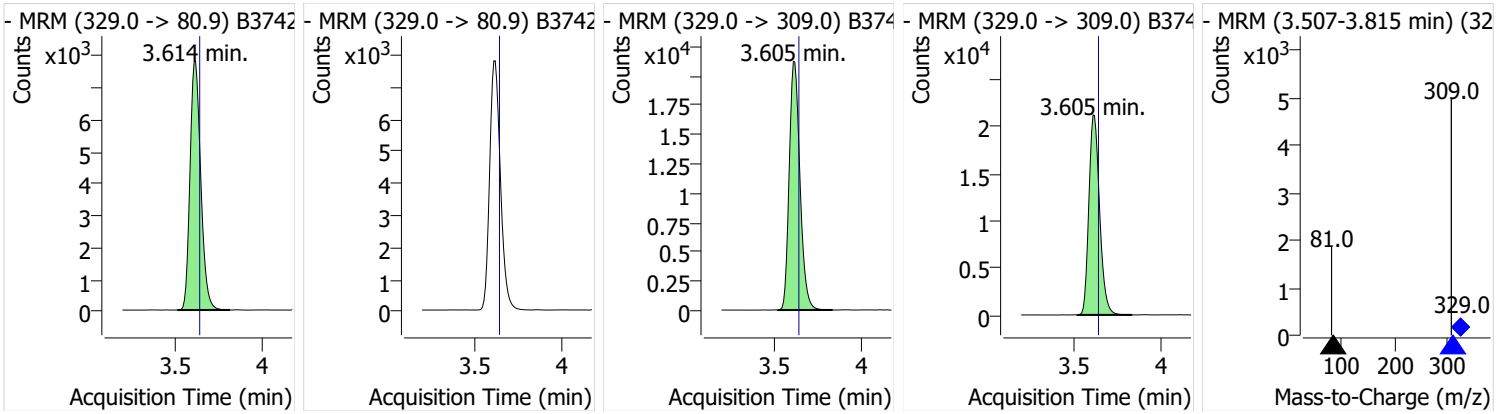

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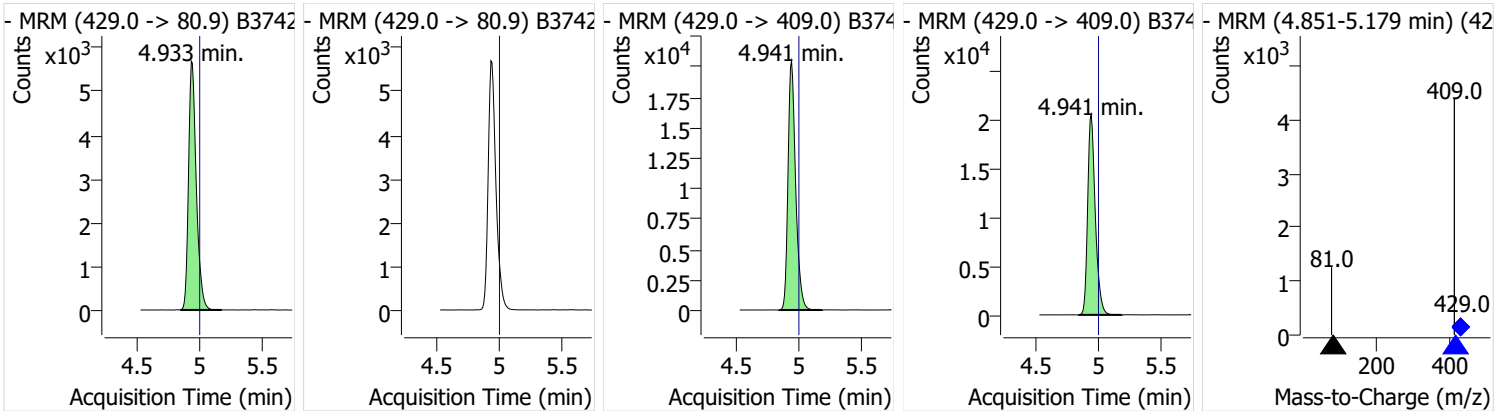

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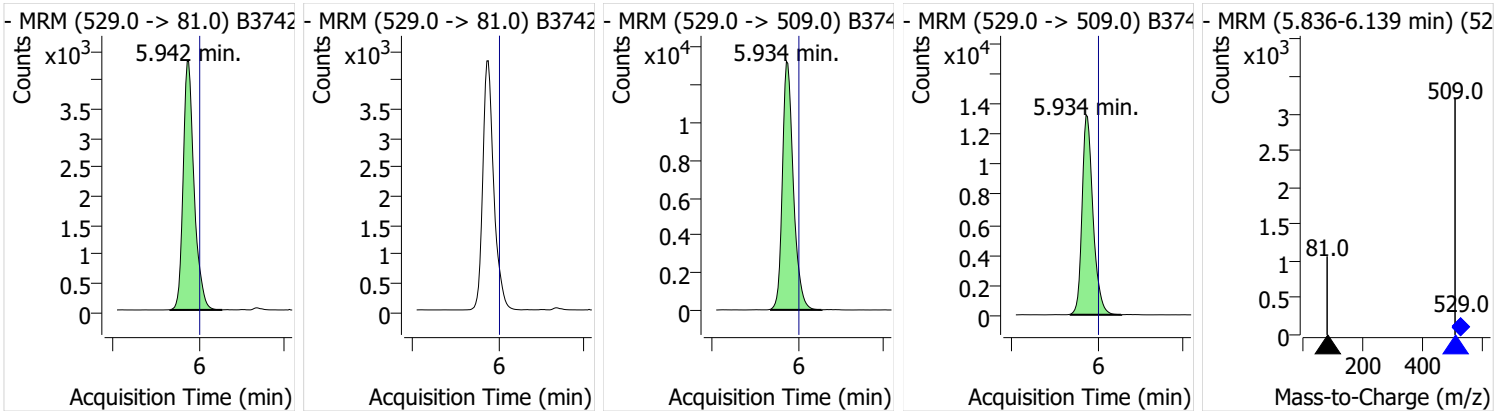
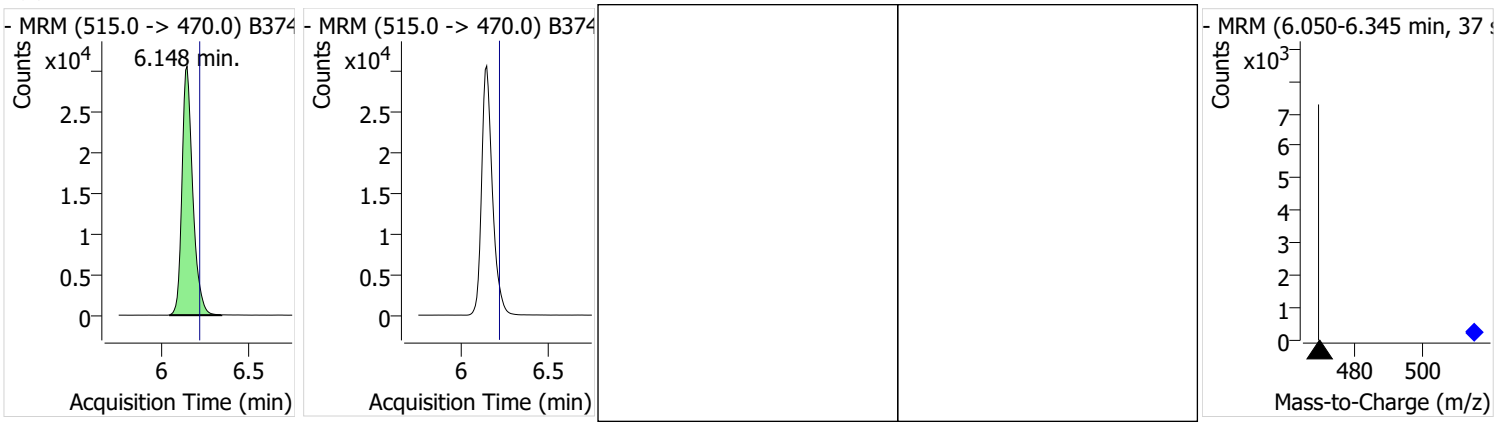
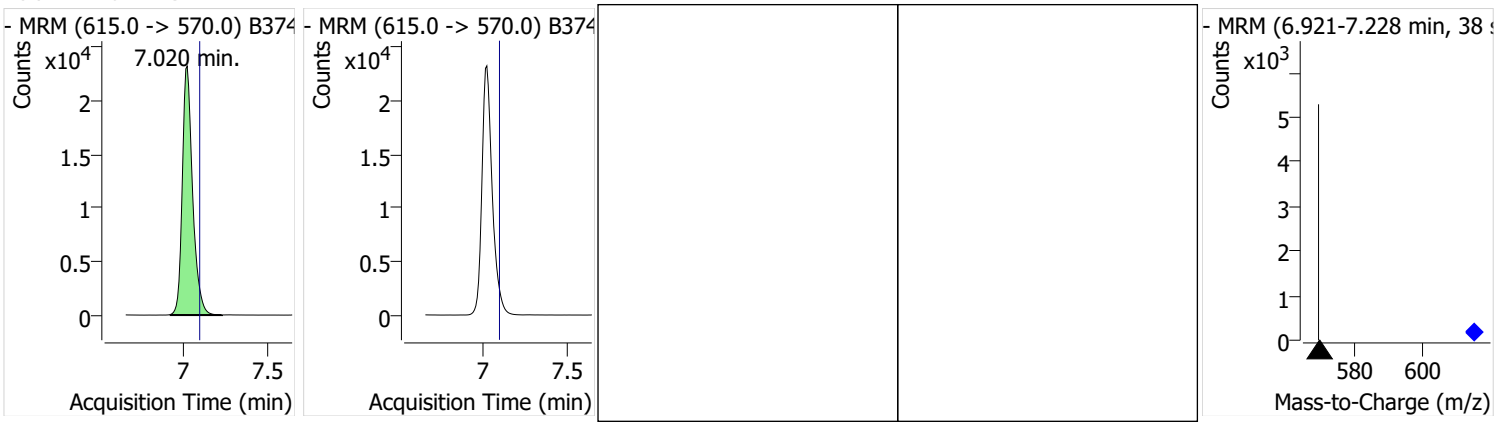


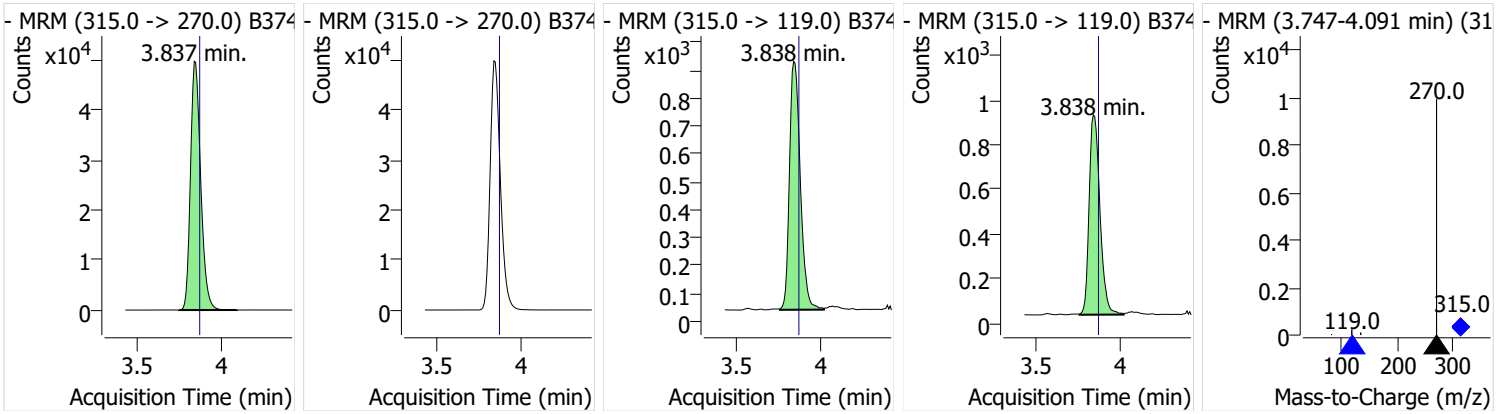
13C2-PFDA



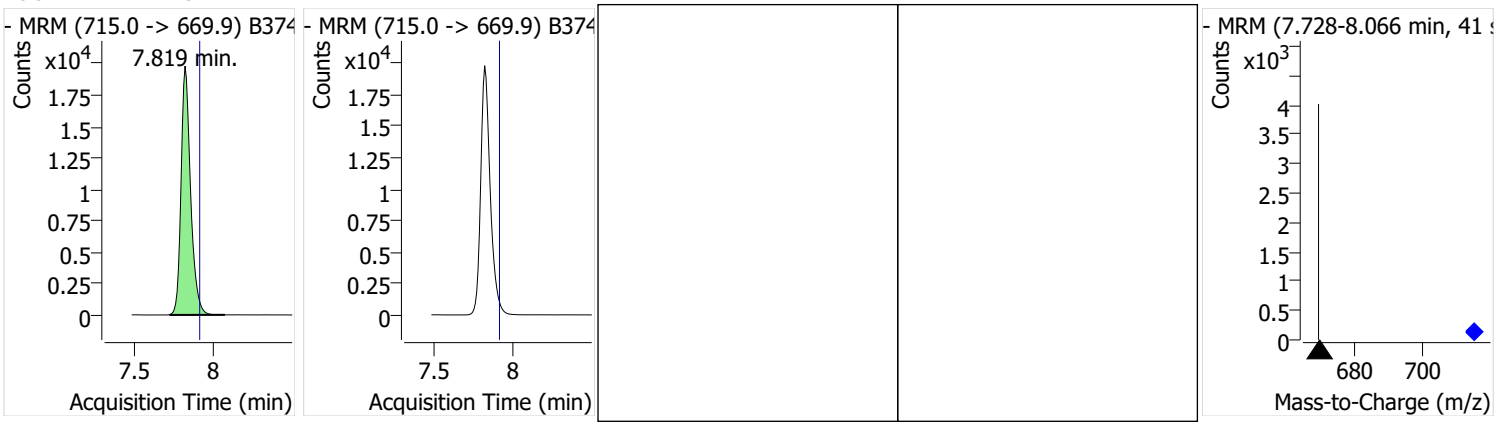
13C2-PFDoA - ISTD



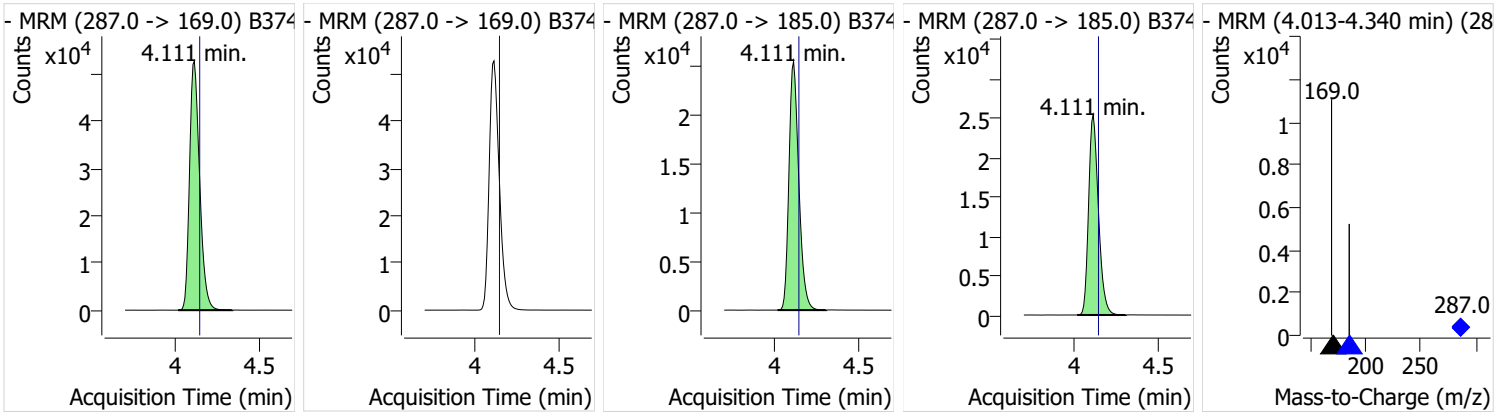
13C2-PFHxA



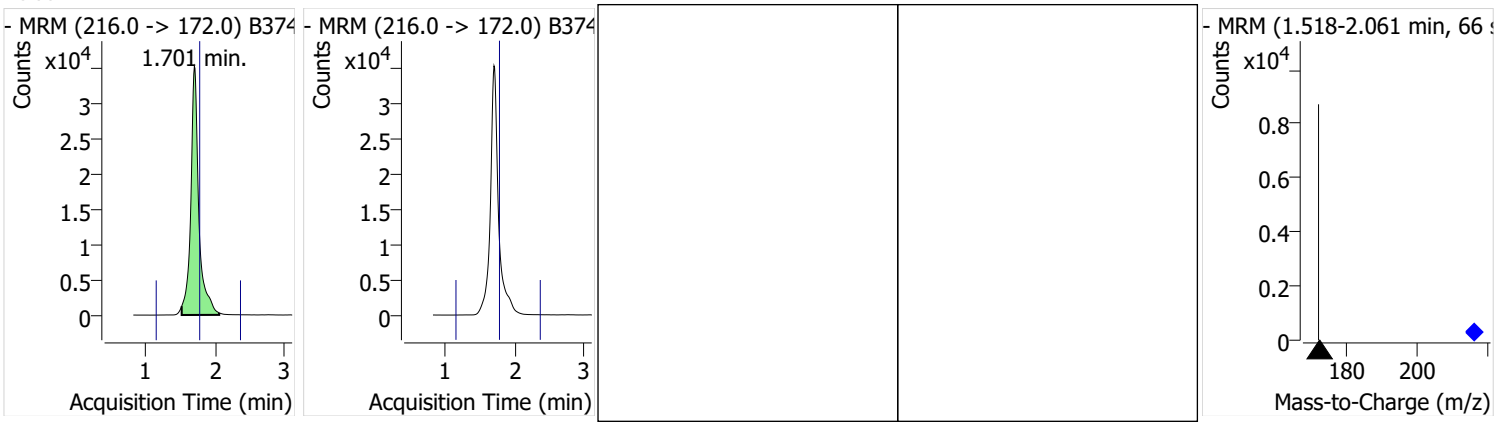
13C2-PFTeDA - ISTD



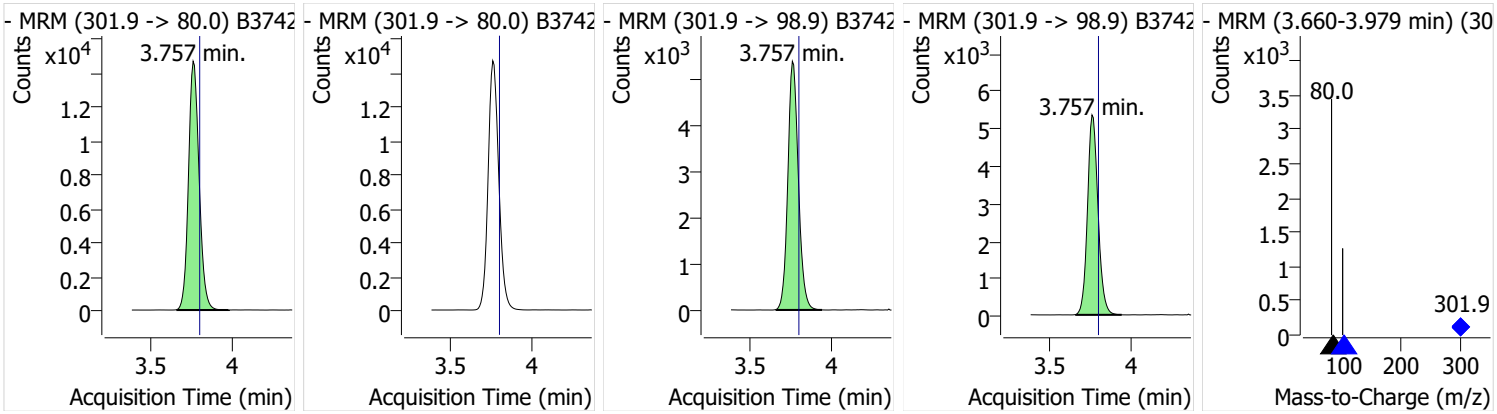
13C3-HFPODA - ISTD



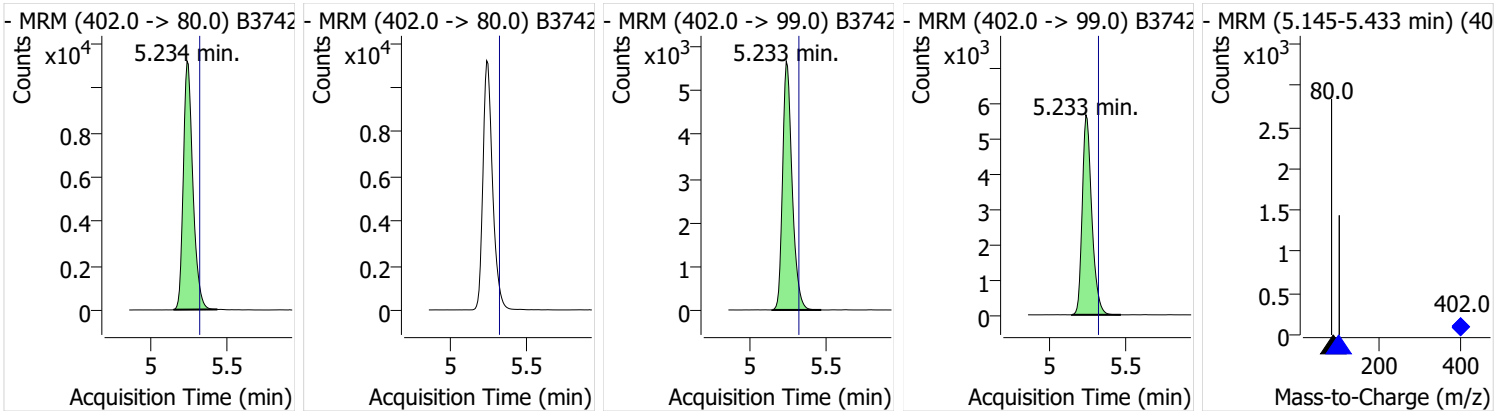
13C3-PFBA



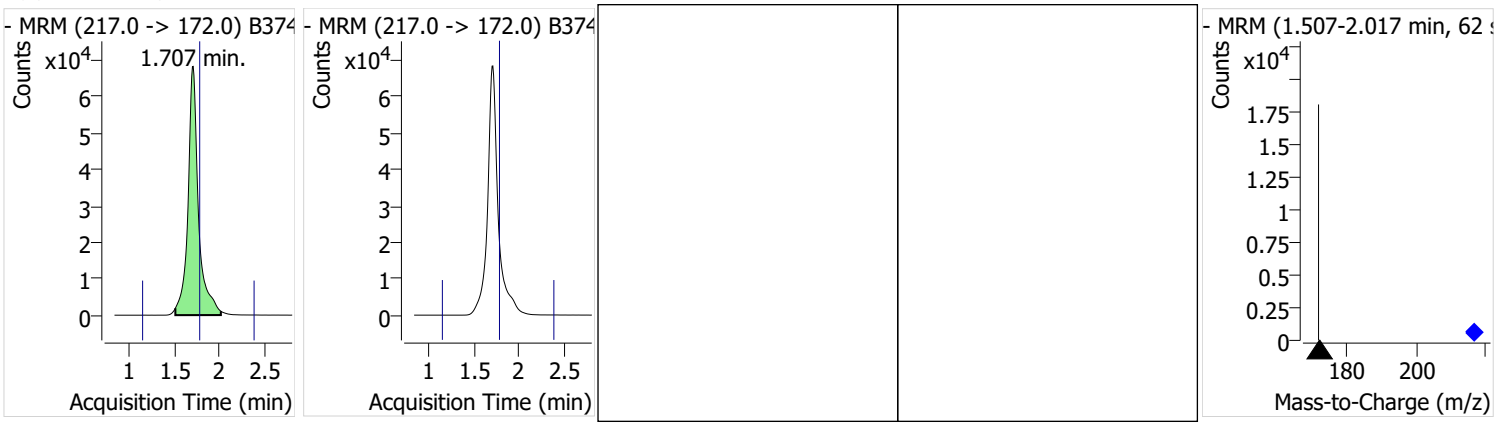
13C3-PFBS - ISTD



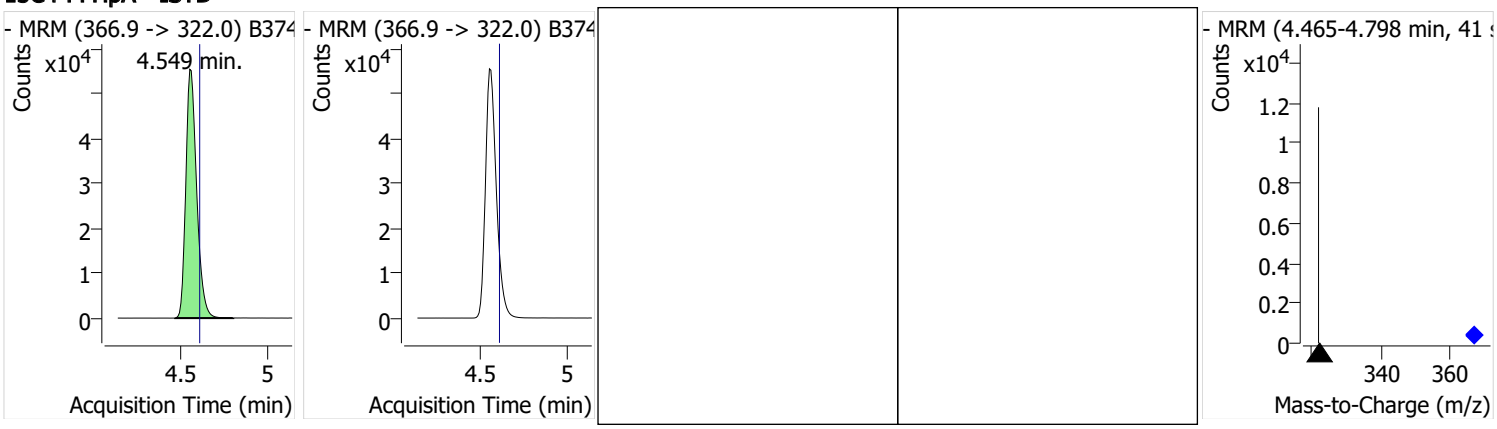
13C3-PFHxS - ISTD



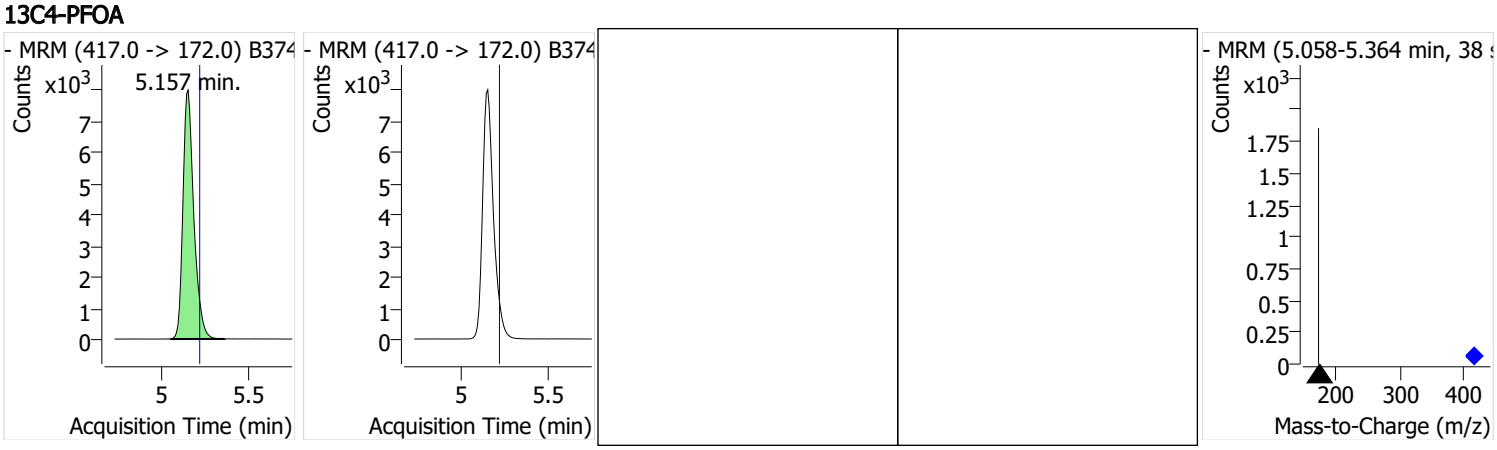
13C4-PFBA - ISTD



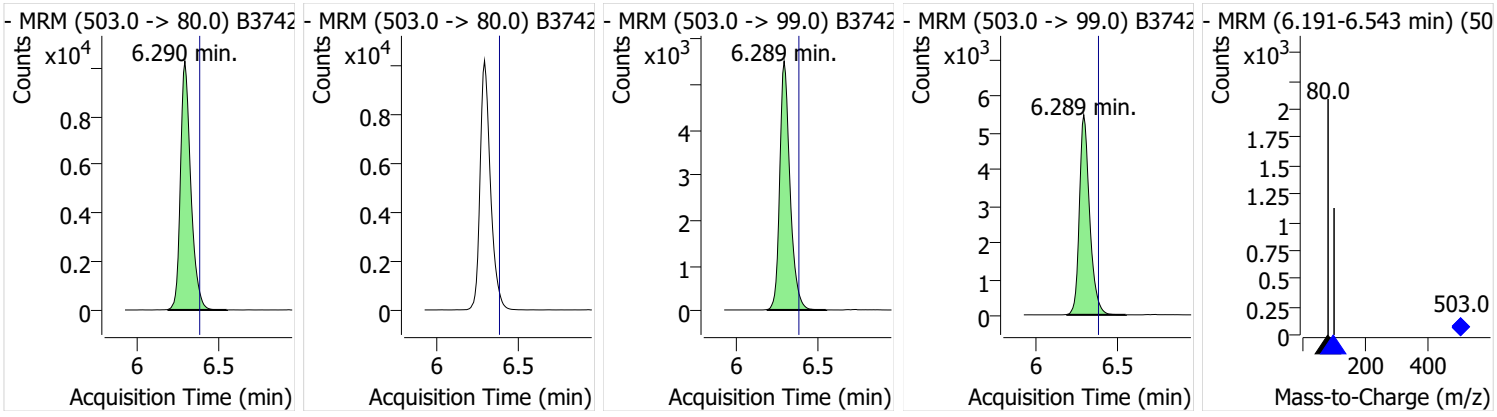
13C4-PFHpA - ISTD



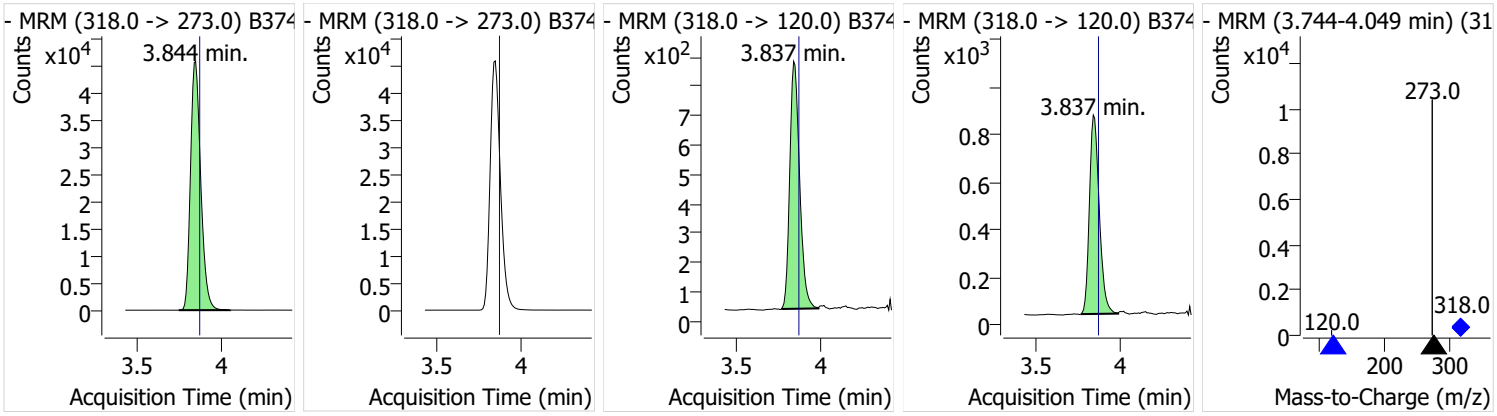
13C4-PFOA



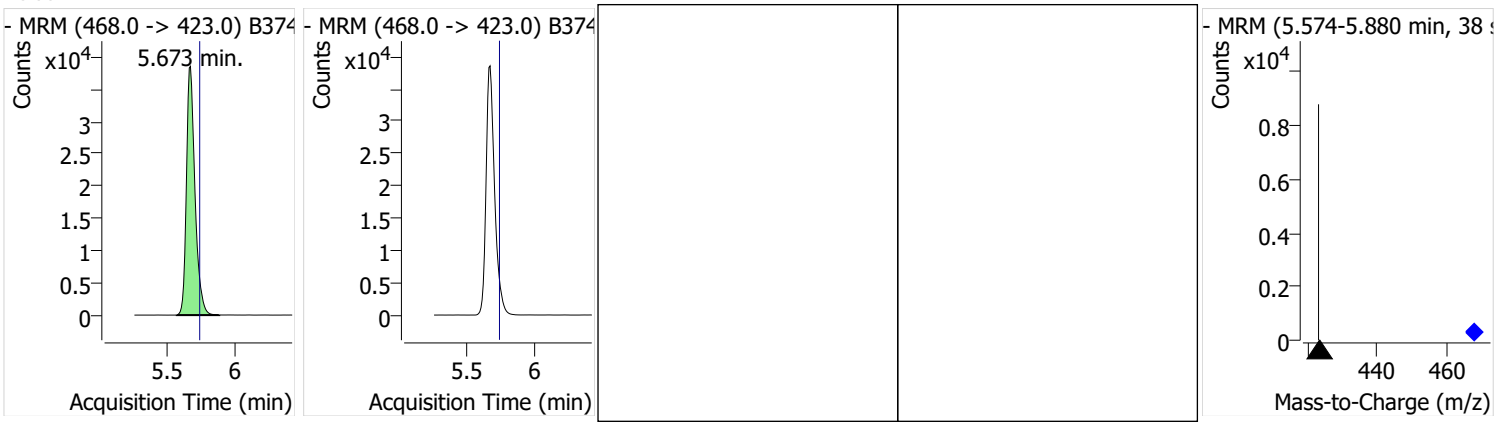
13C4-PFOS



13C5-PFHxA - ISTD

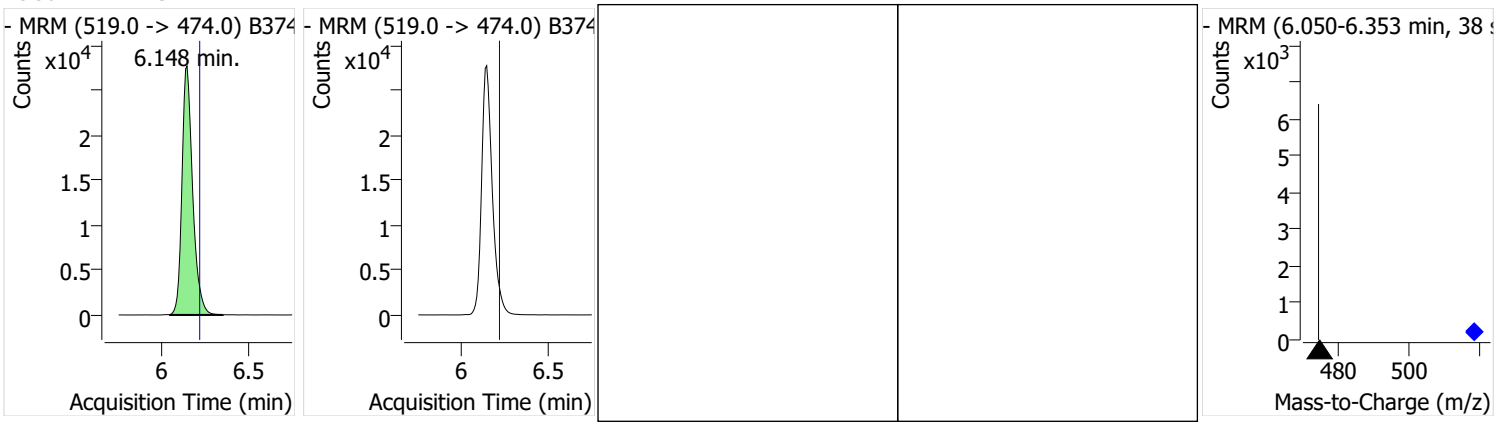


13C5-PFNA

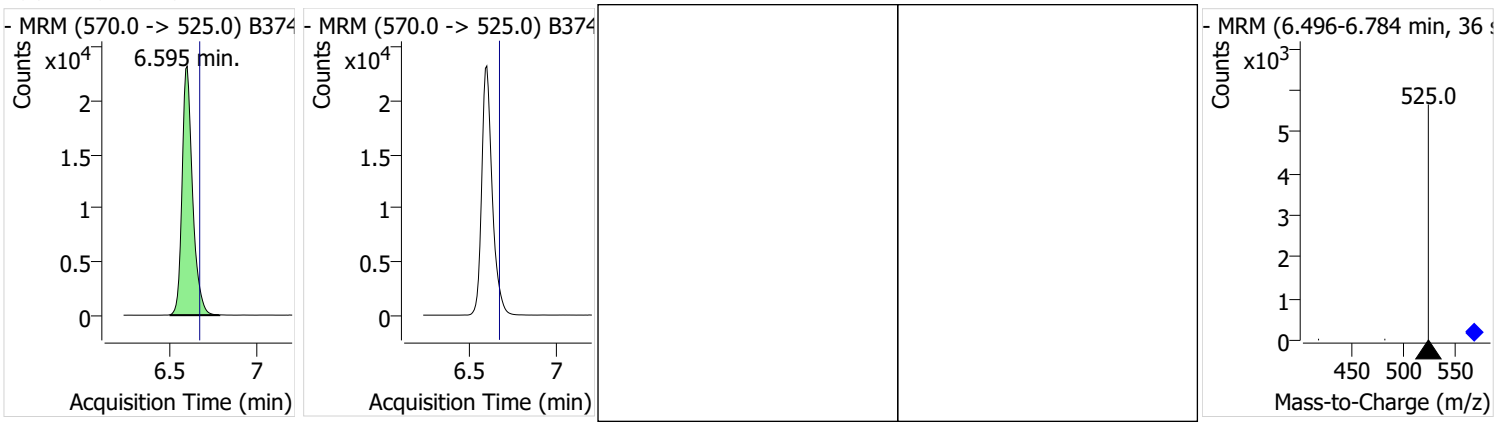


13C5-PFPeA - ISTD

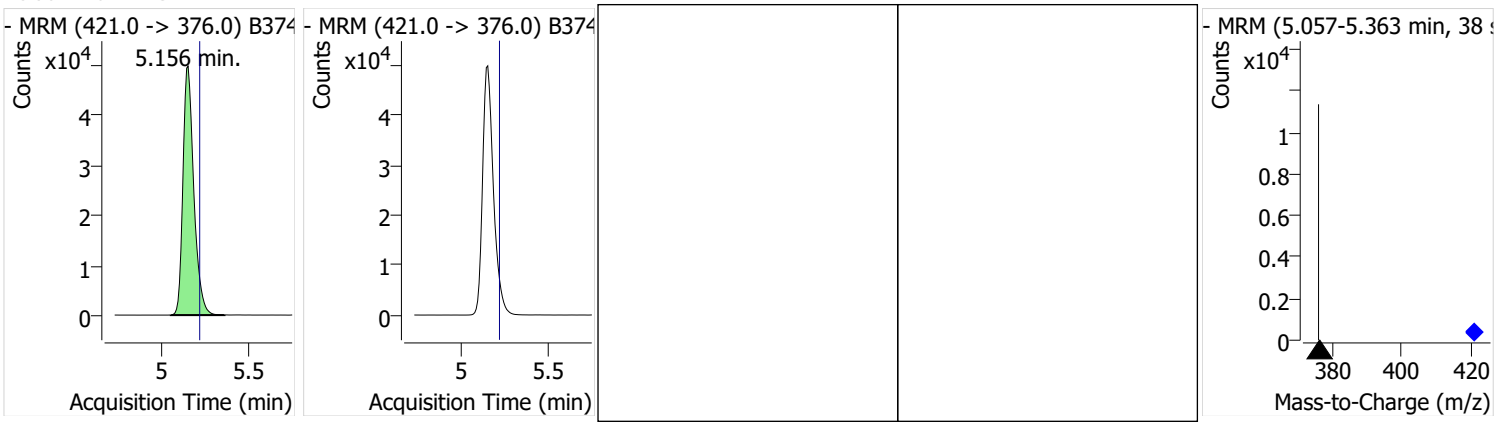
13C6-PFDA - ISTD



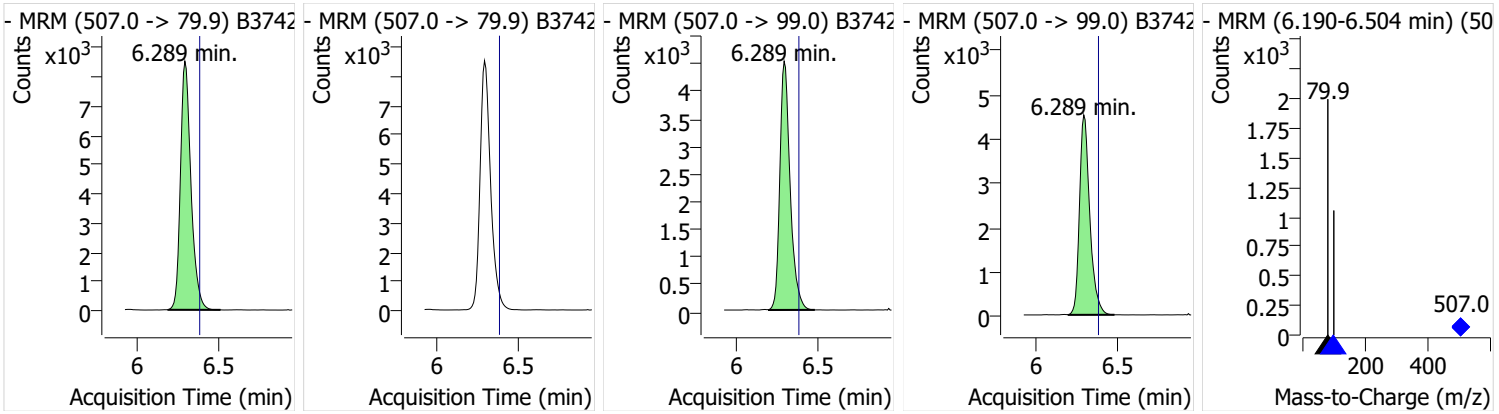
13C7-PFUnA - ISTD



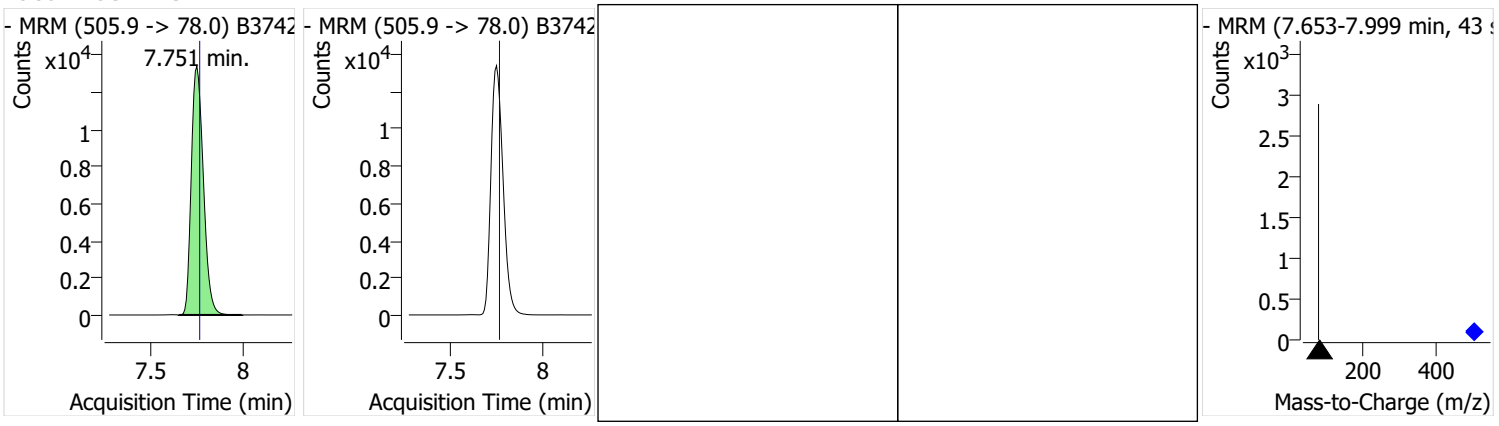
13C8-PFOA - ISTD



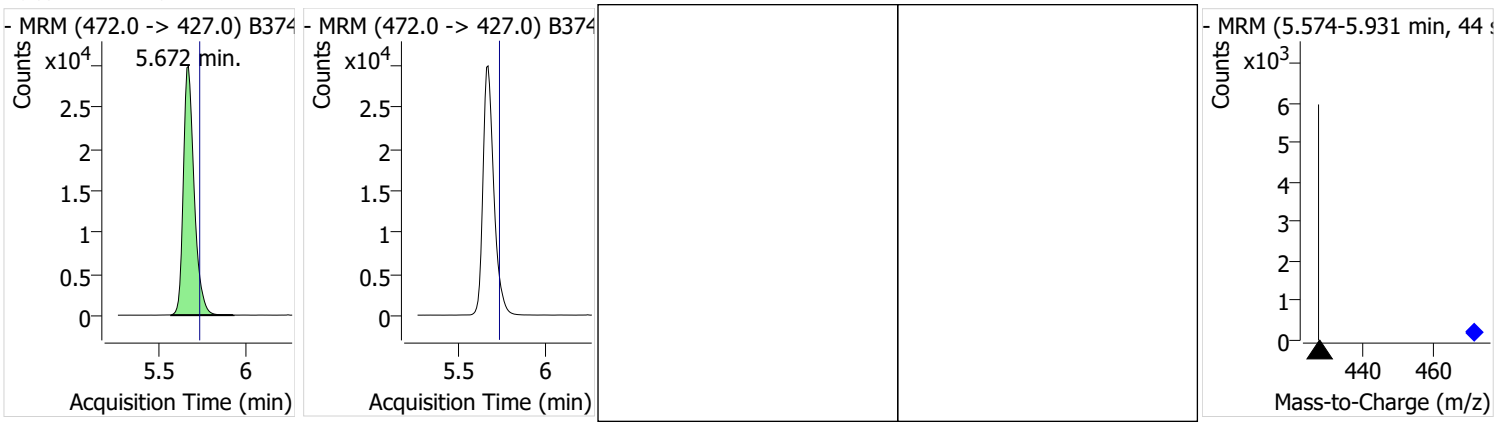
13C8-PFOS - ISTD



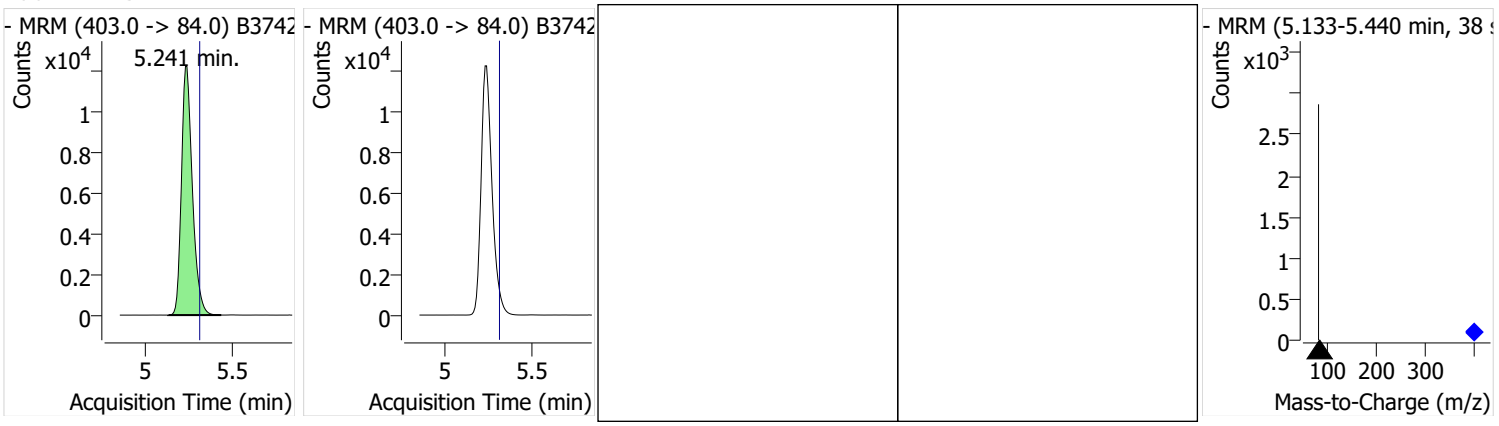
13C8-PFOSA - ISTD



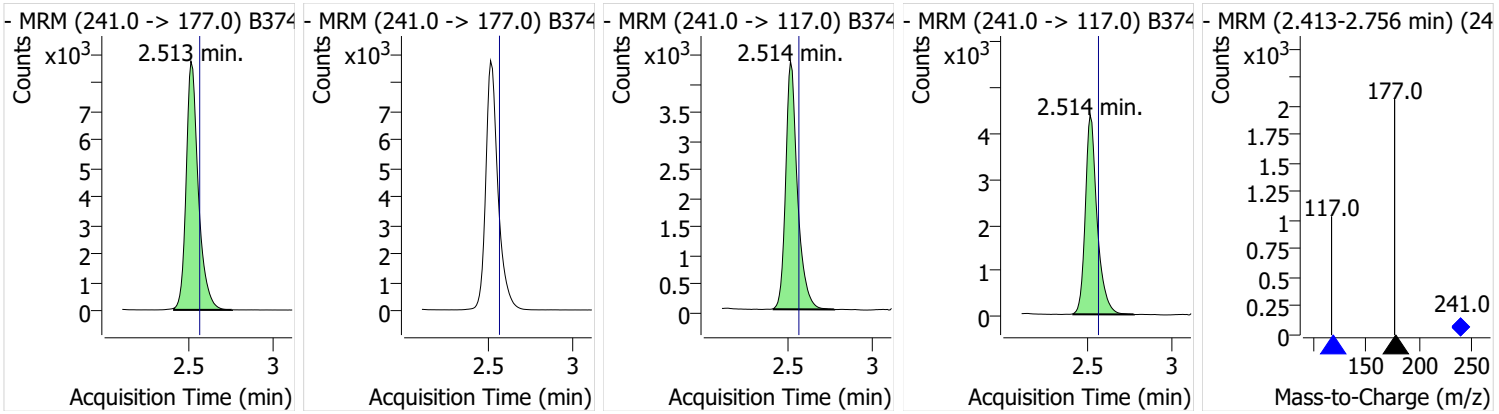
13C9-PFNA - ISTD



18O2-PFHxS



3:3FTCA



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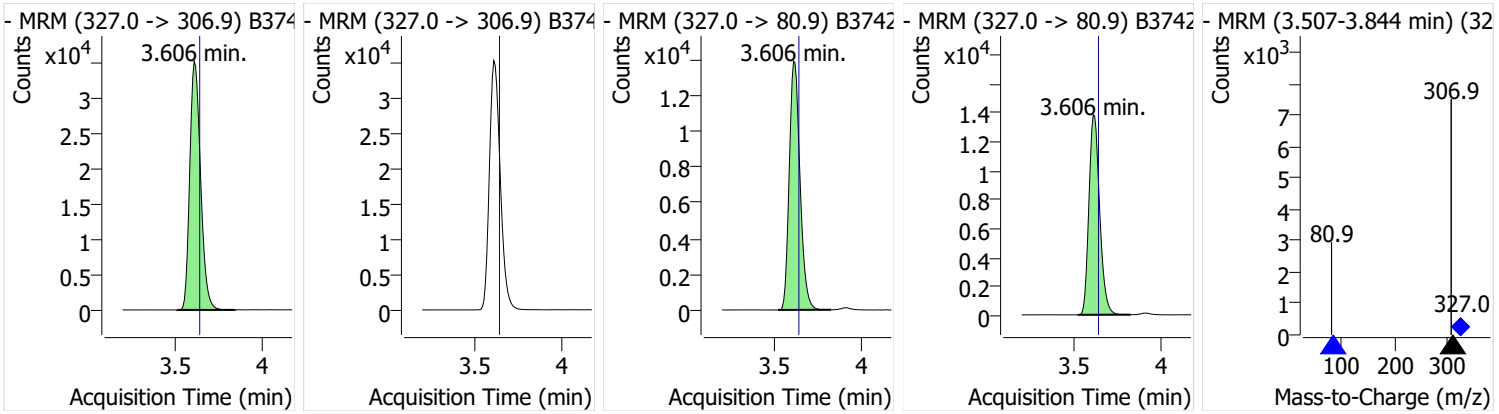
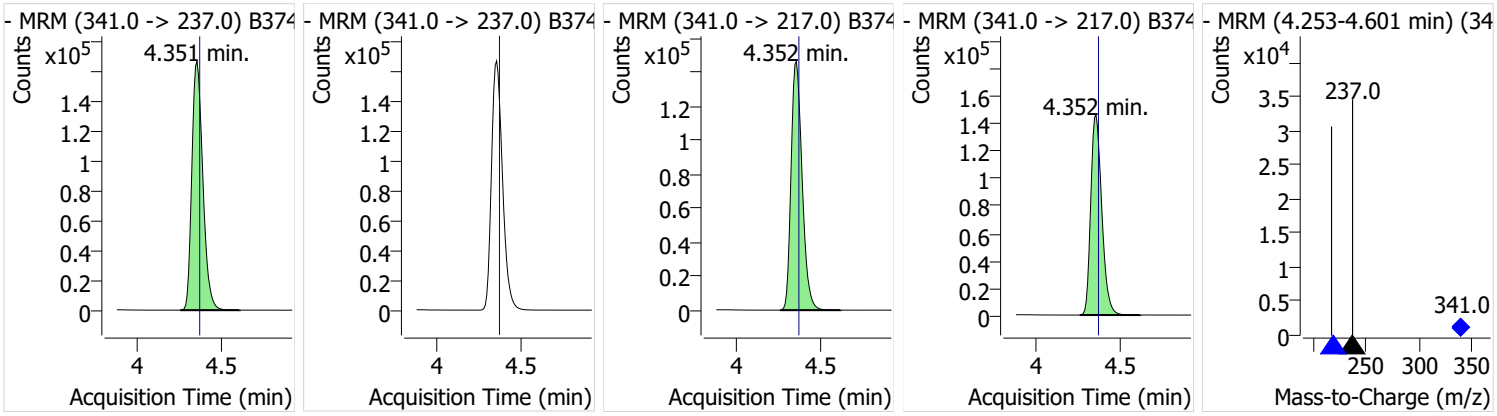
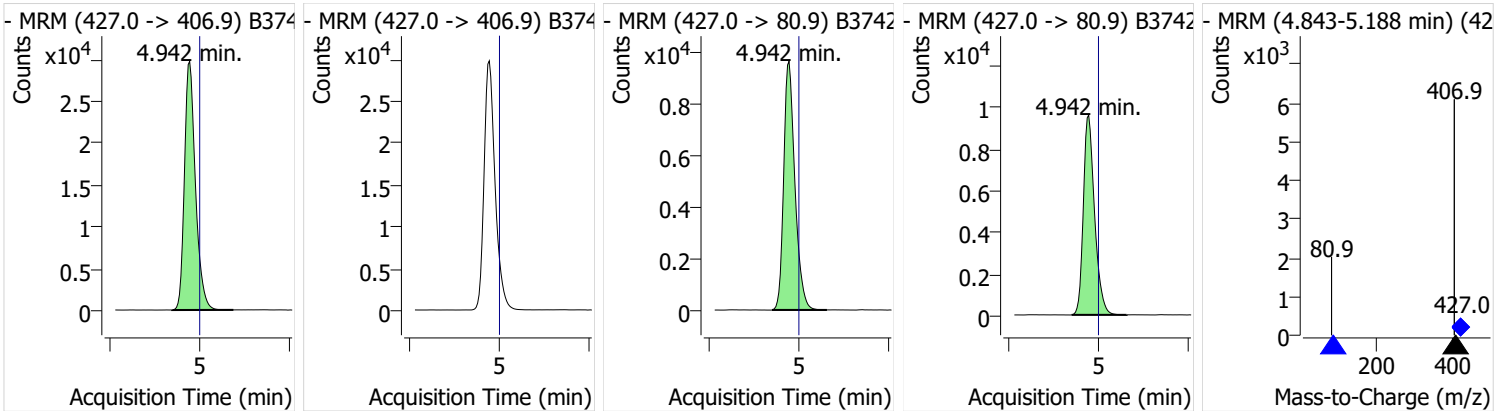


5:3FTCA



6:2FTS



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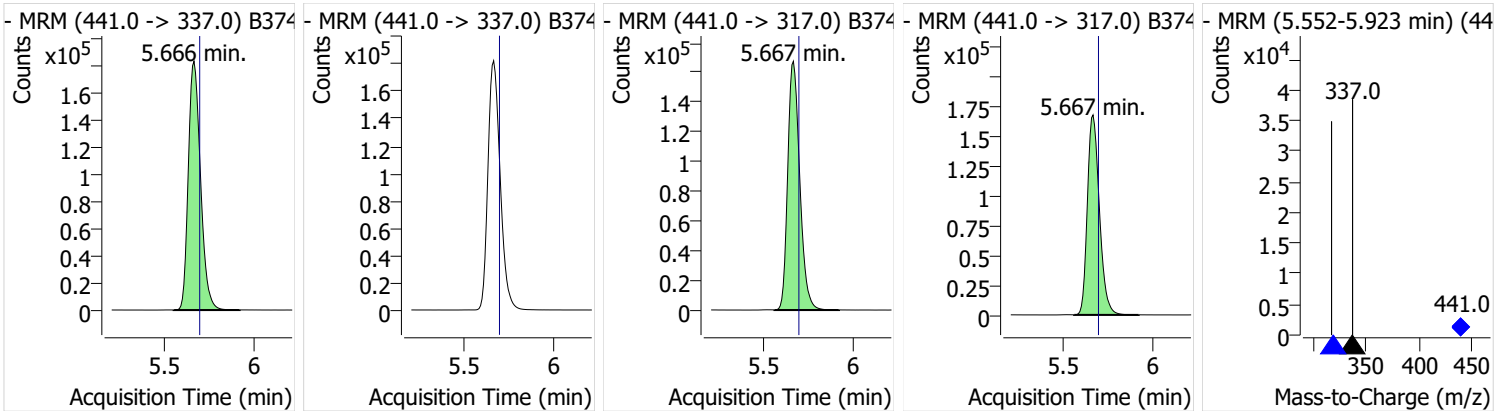
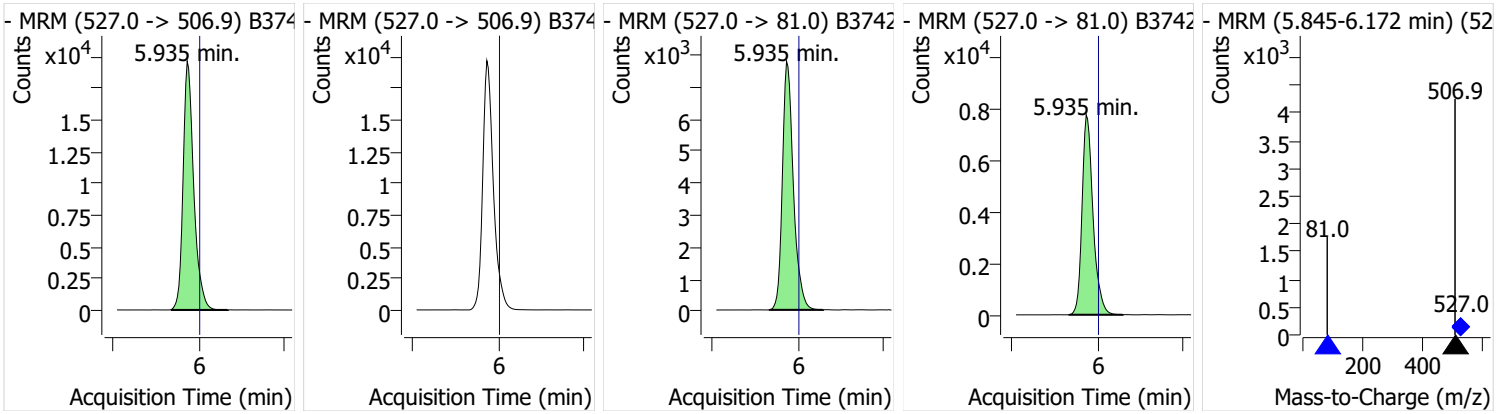
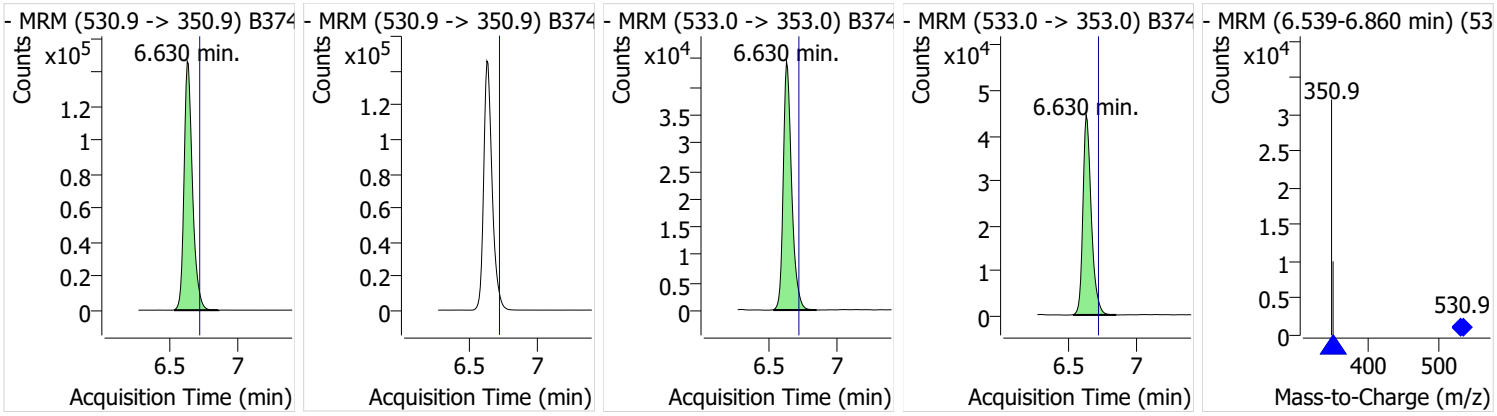


8:2FTS



9Cl-PF3ONS



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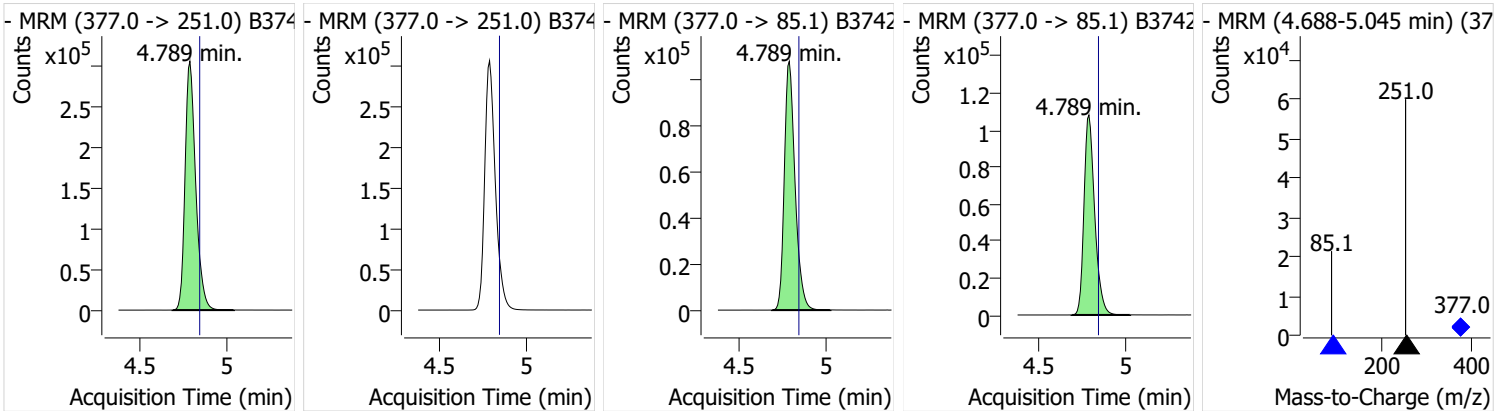
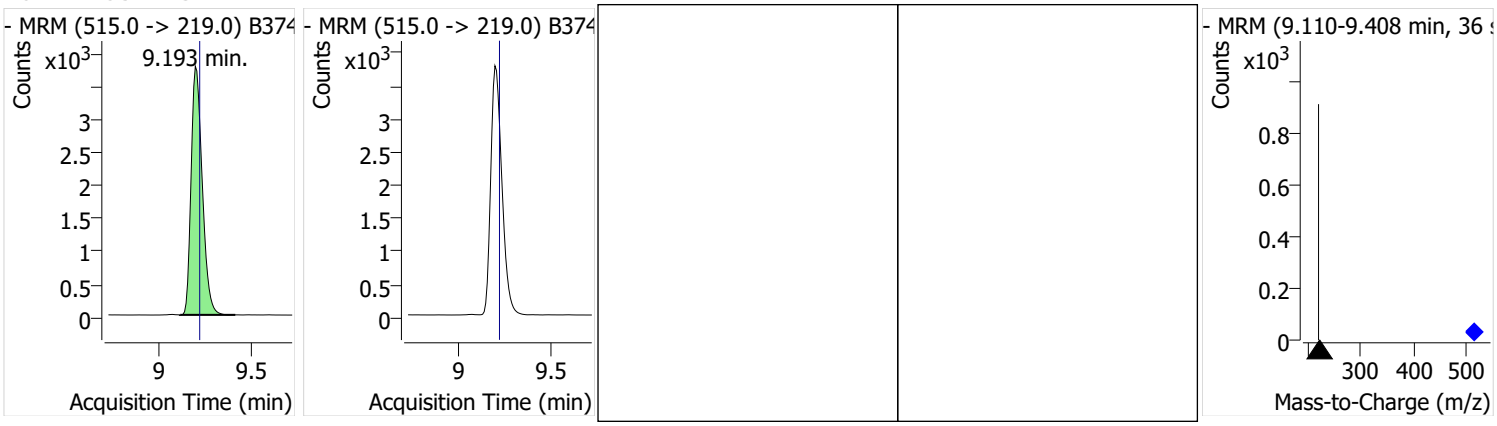
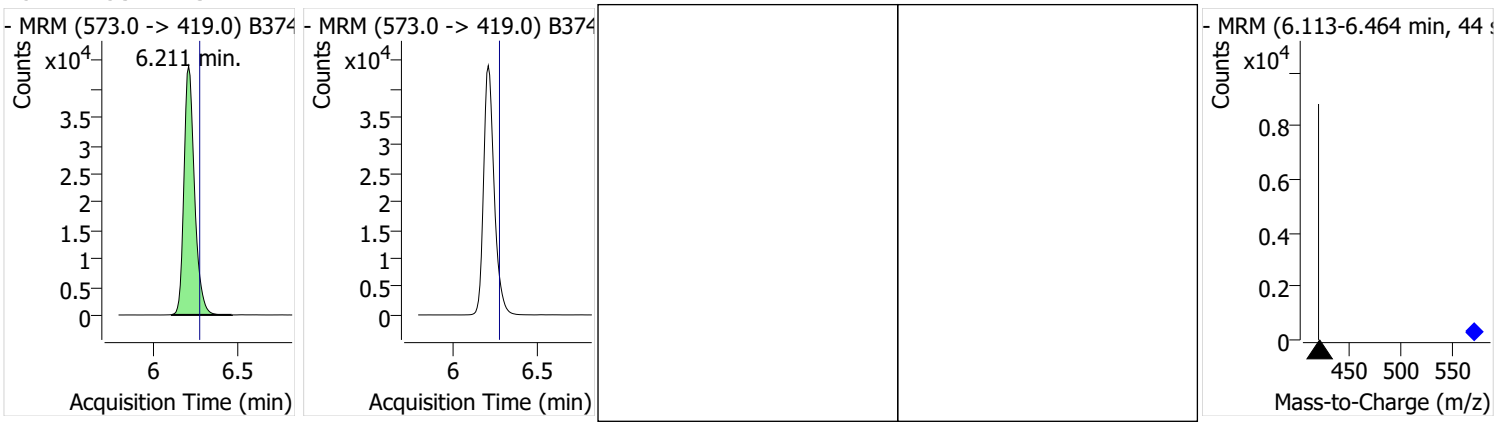


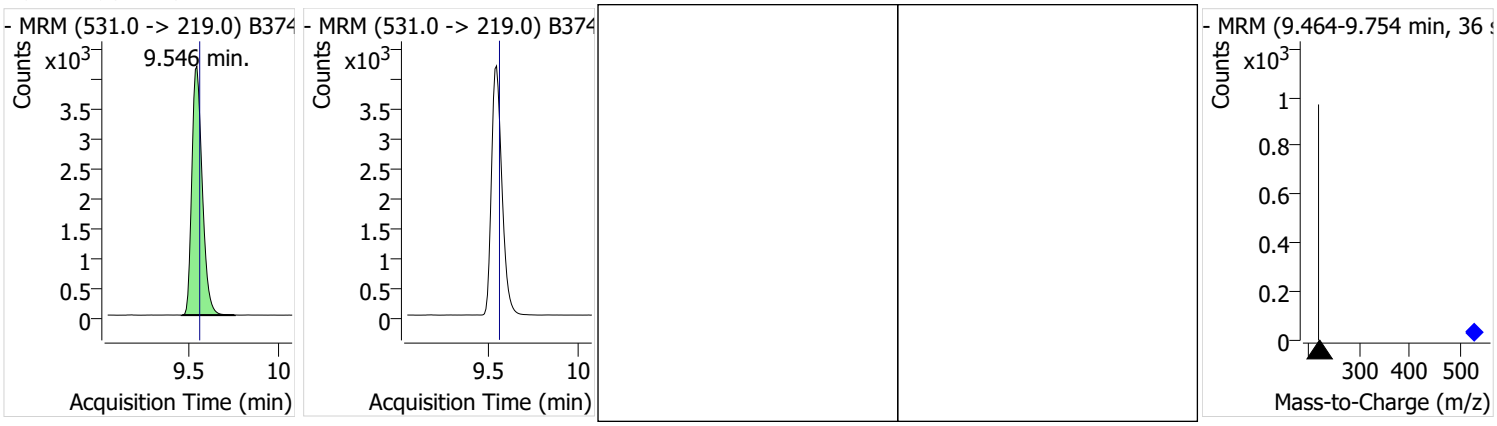
D3-NMeFOSA - ISTD



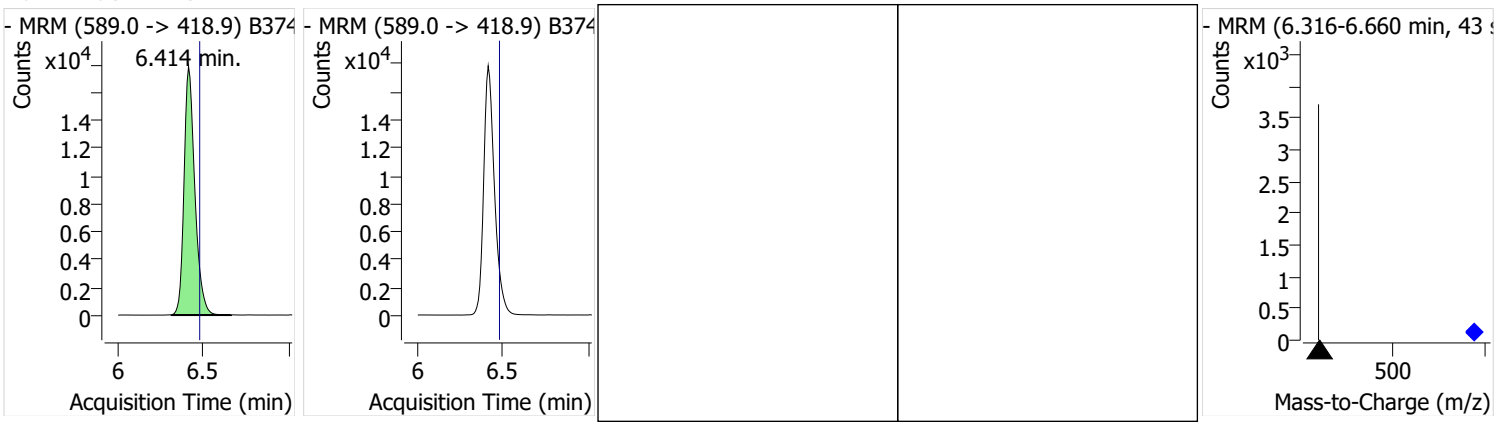
D3-NMeFOSAA - ISTD



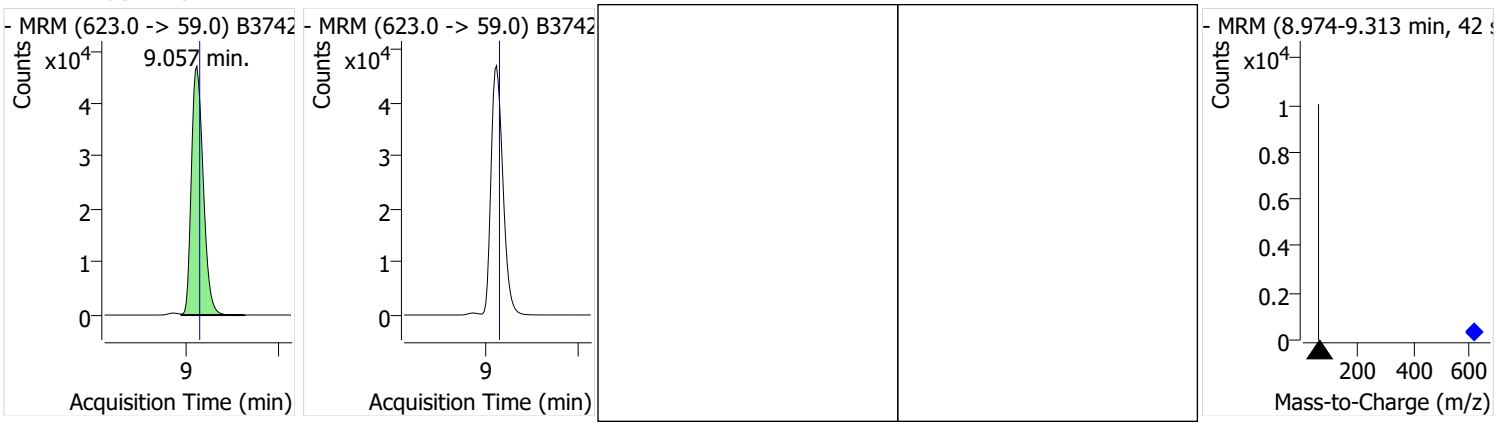
D5-NEtFOSA - ISTD



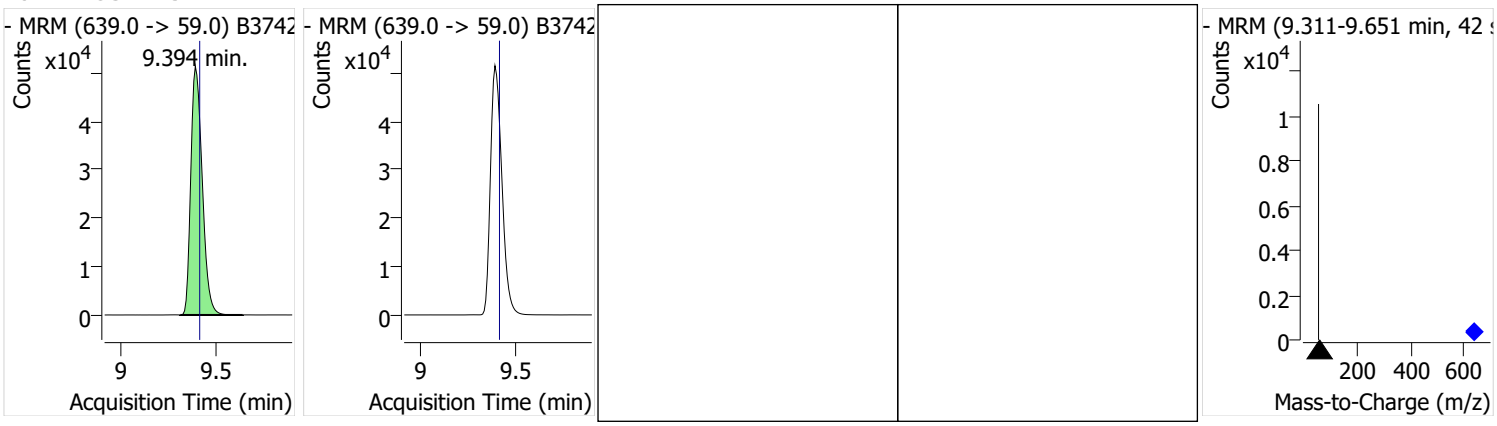
D5-NEtFOSAA - ISTD



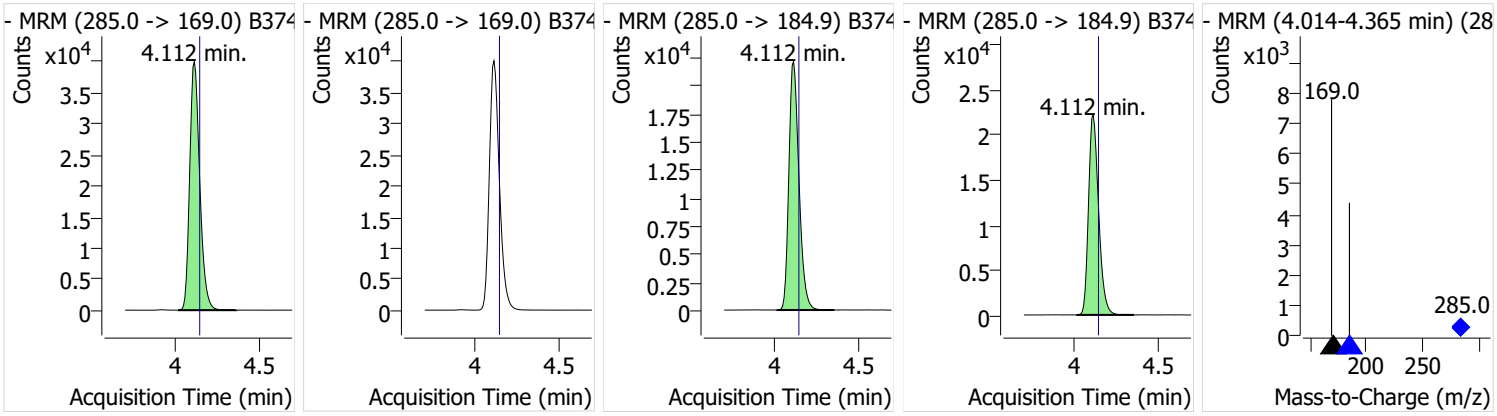
D7-NMeFOSE - ISTD



D9-NEtFOSE - ISTD



HFPO-DA



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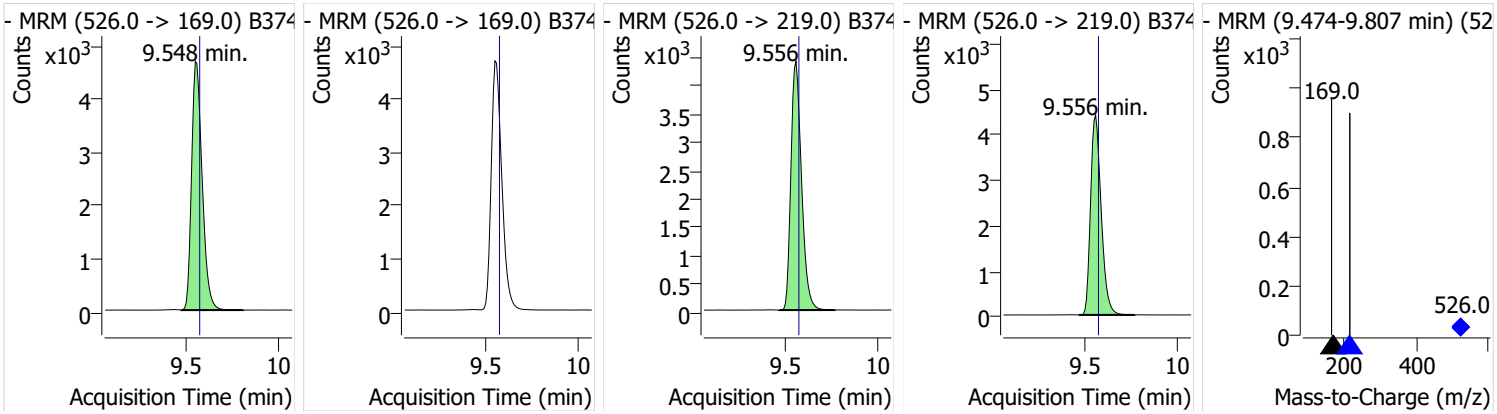

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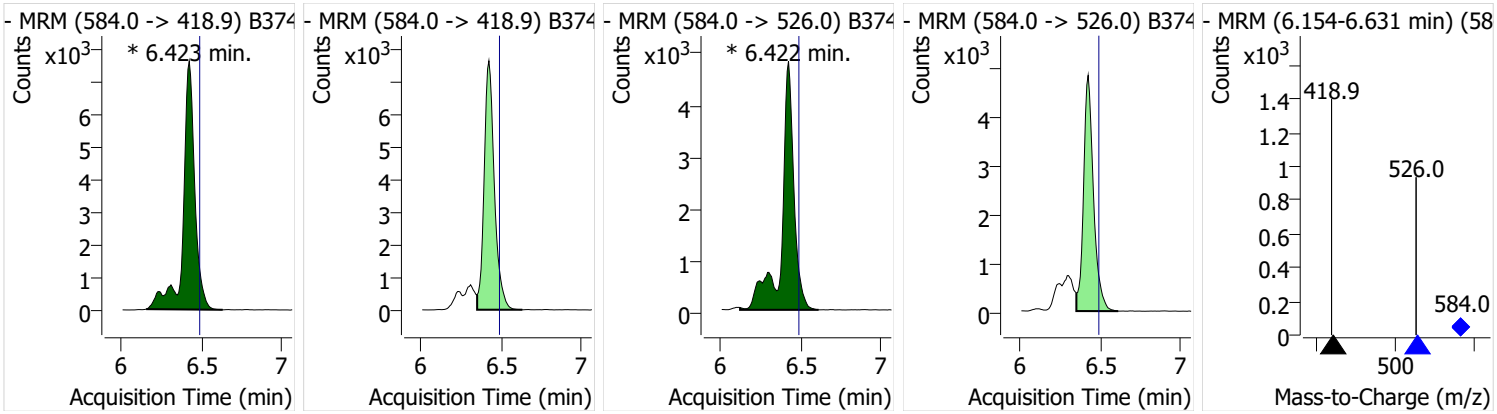

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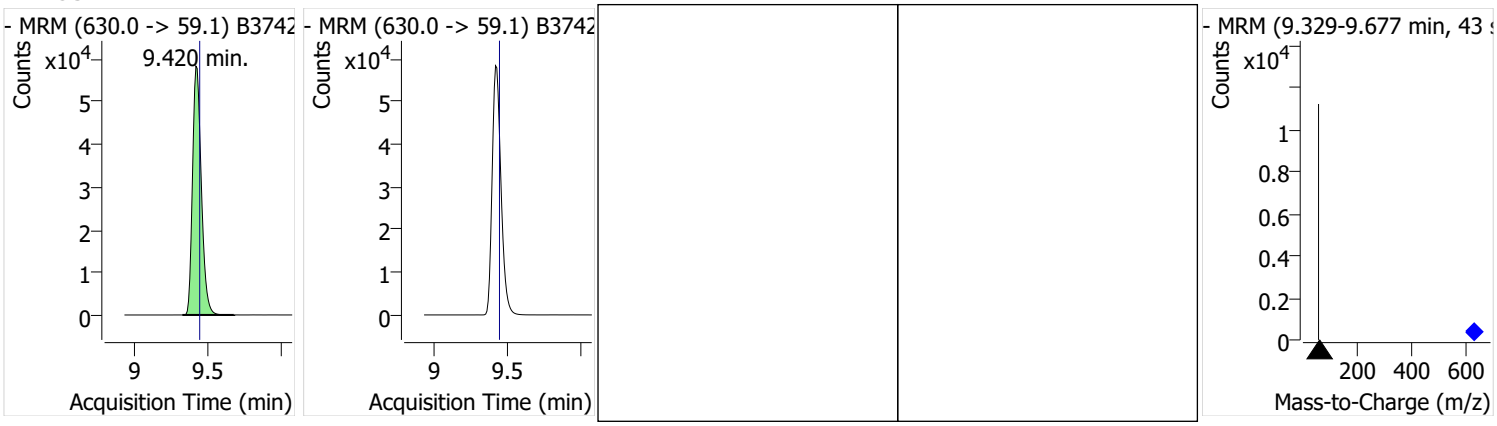

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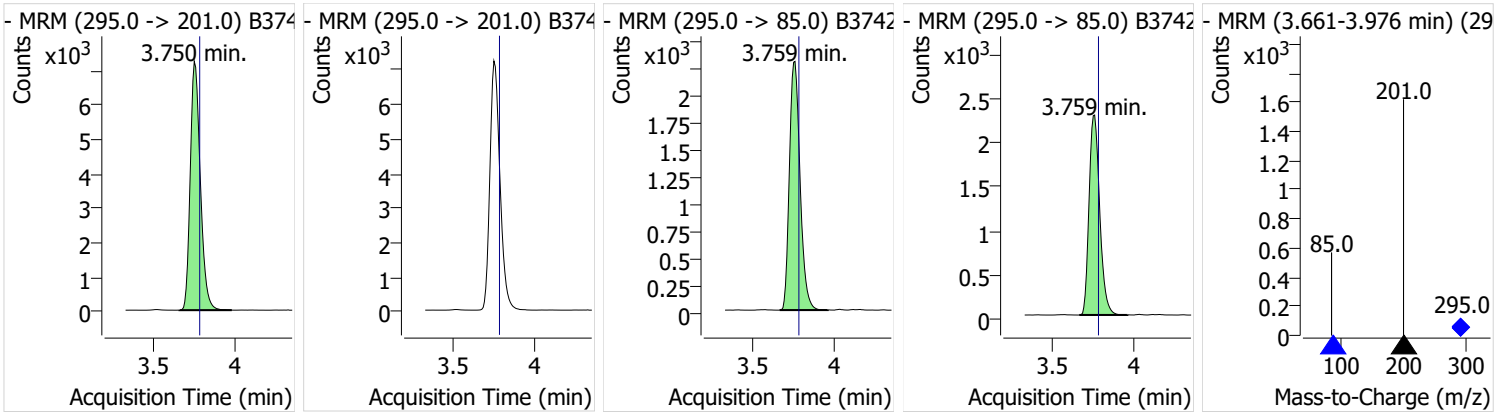

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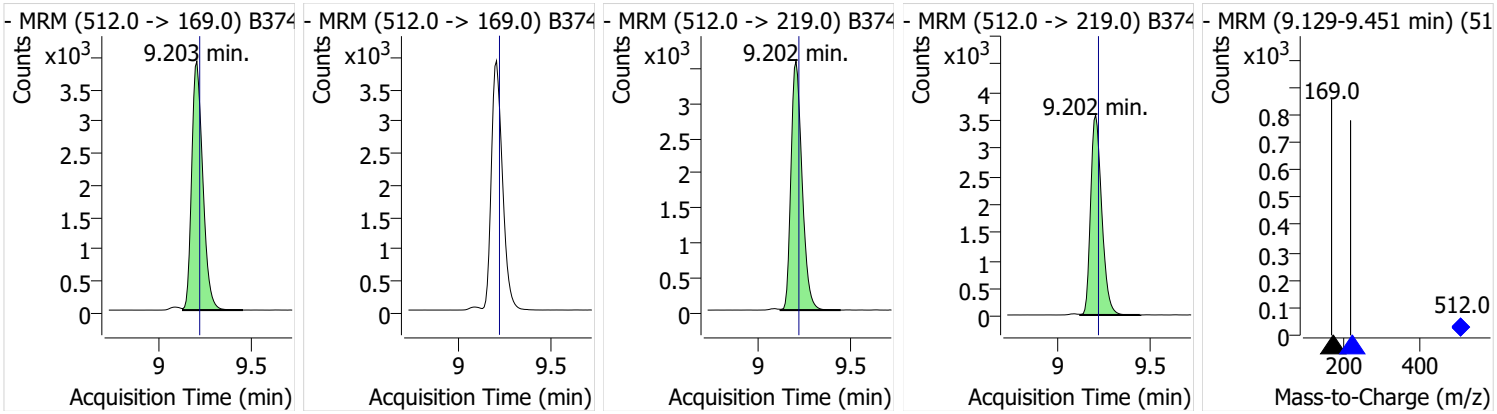

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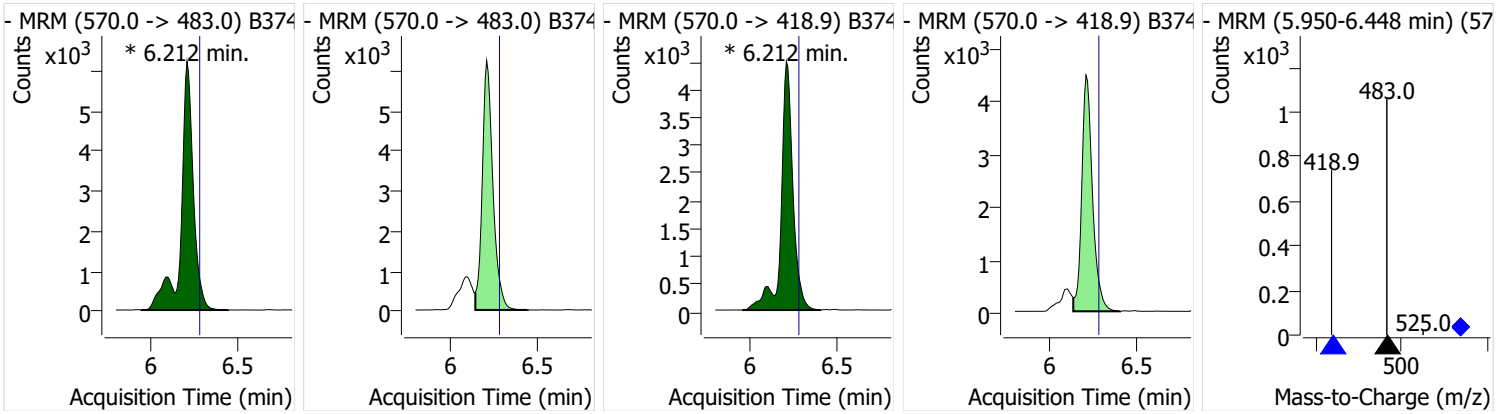

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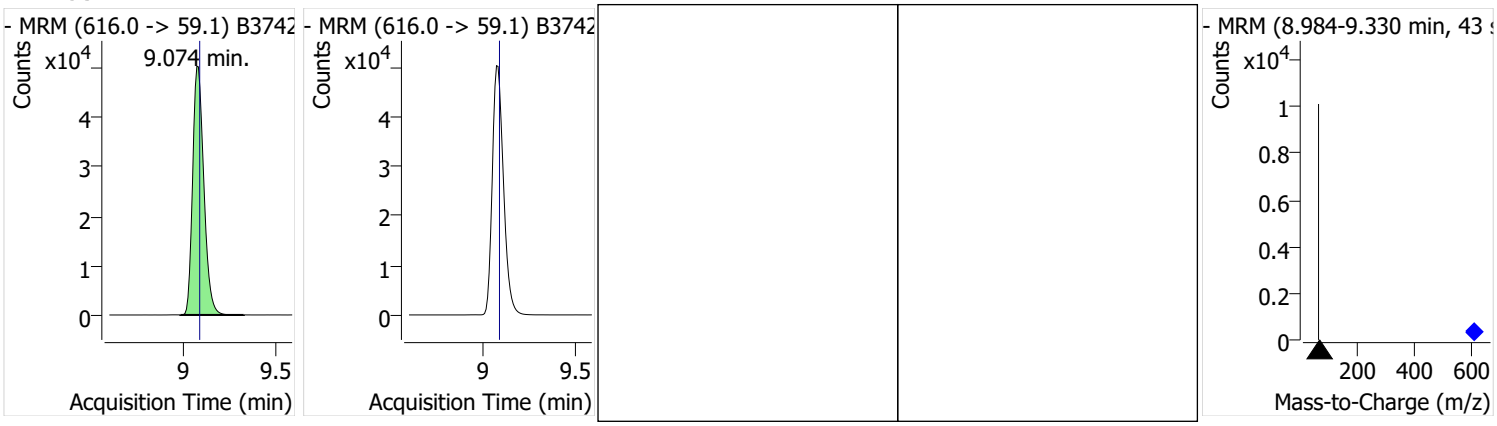

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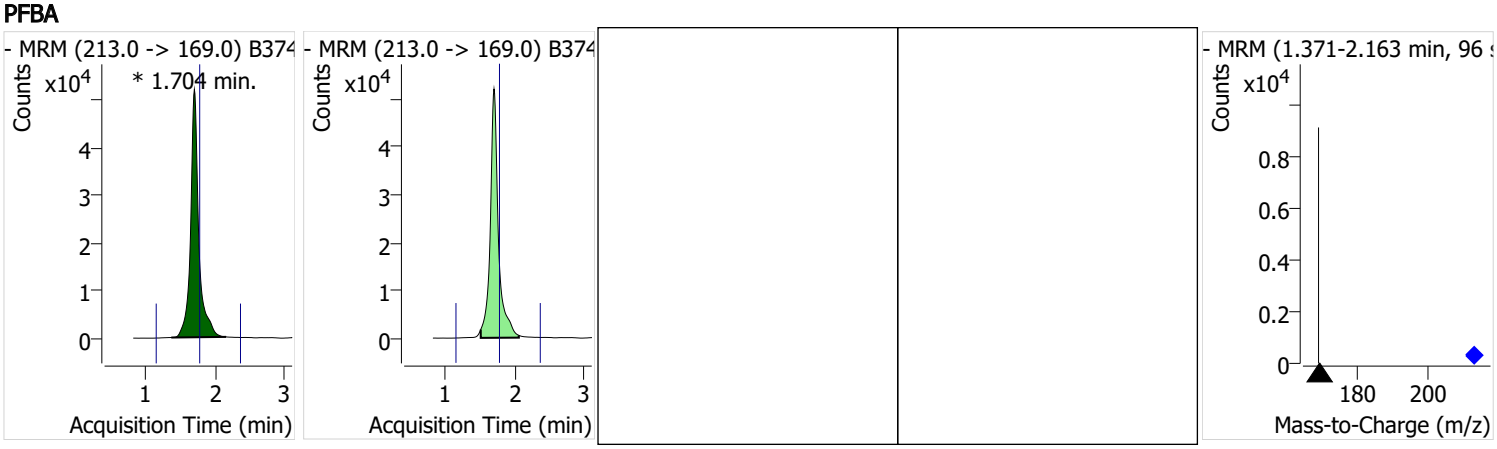

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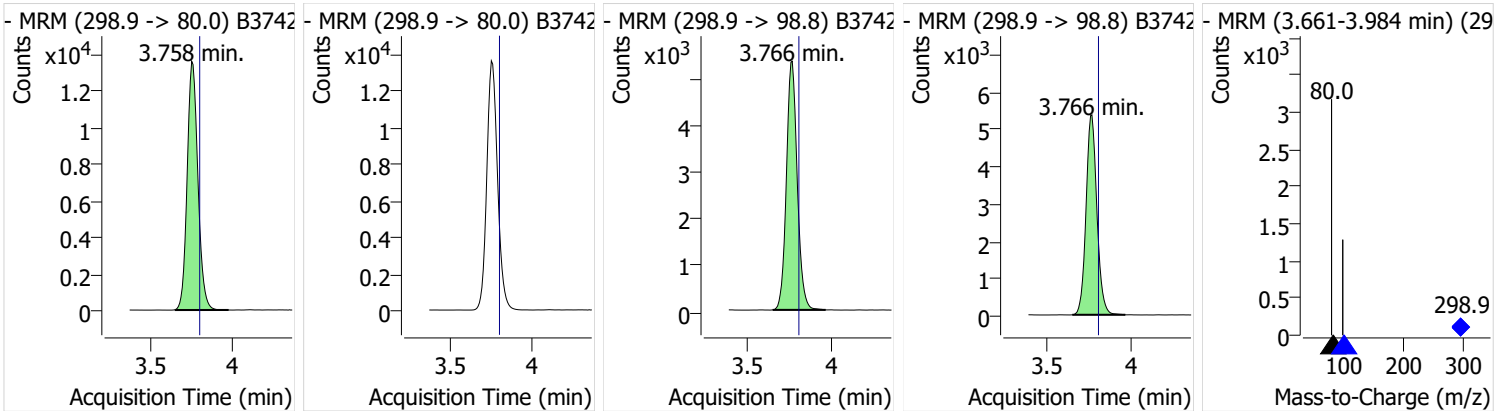

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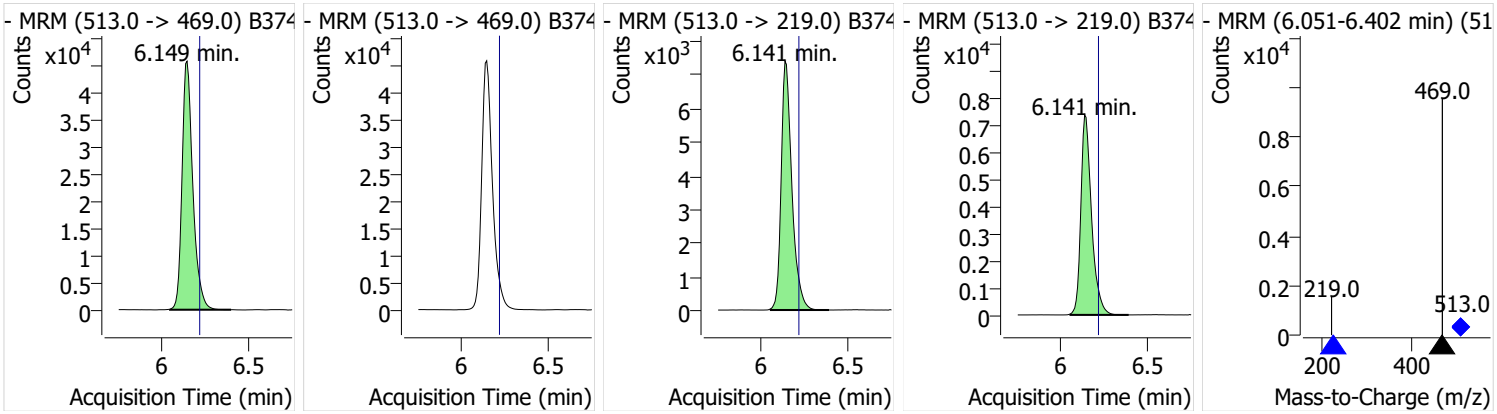

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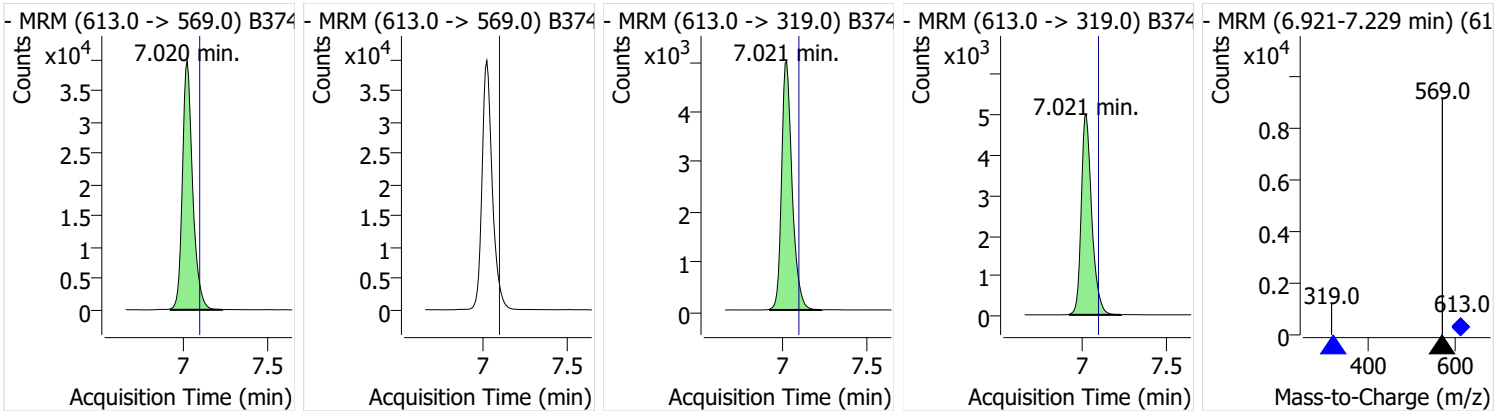

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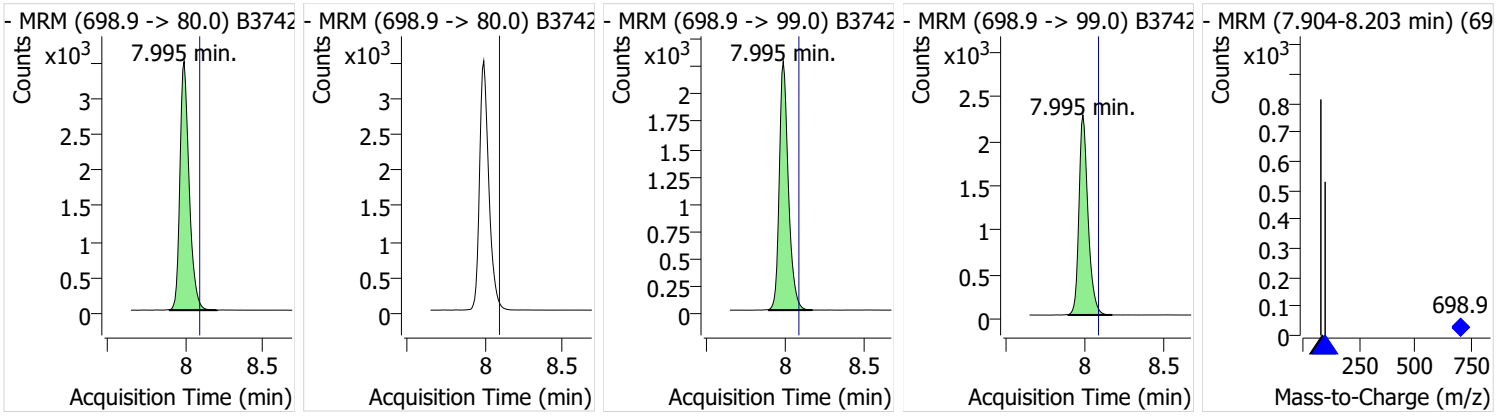

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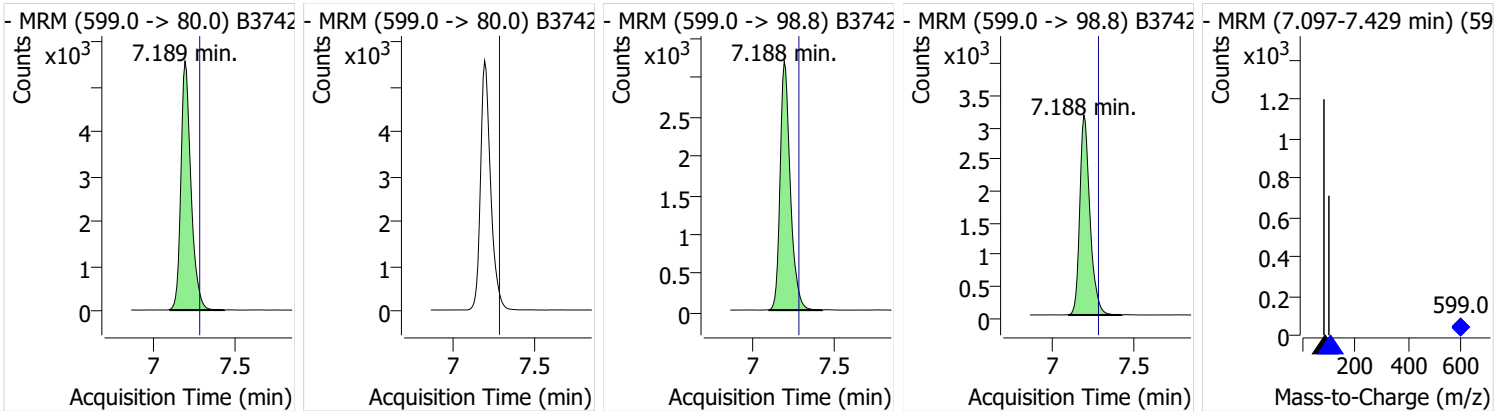

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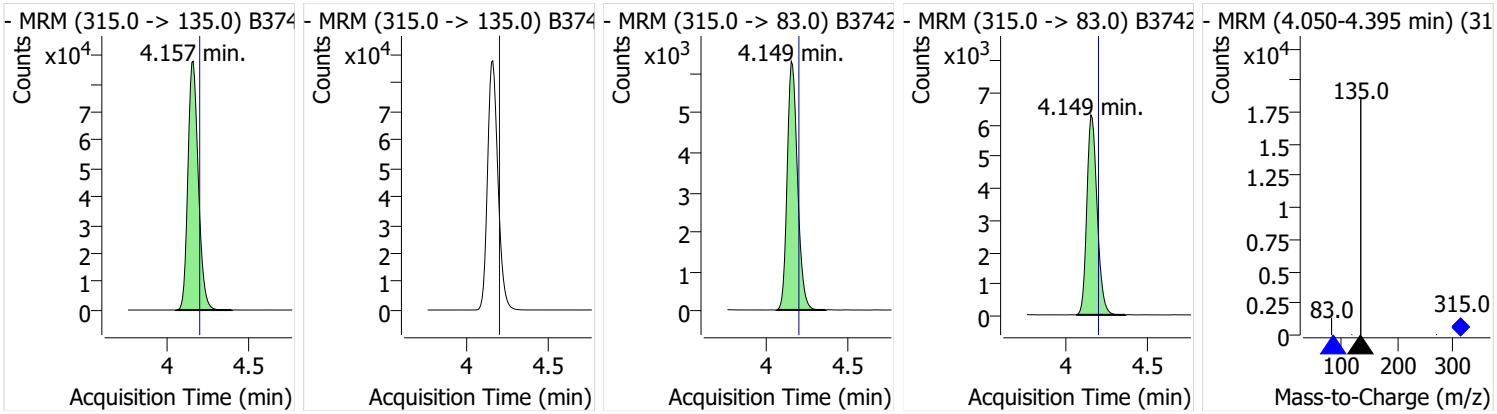

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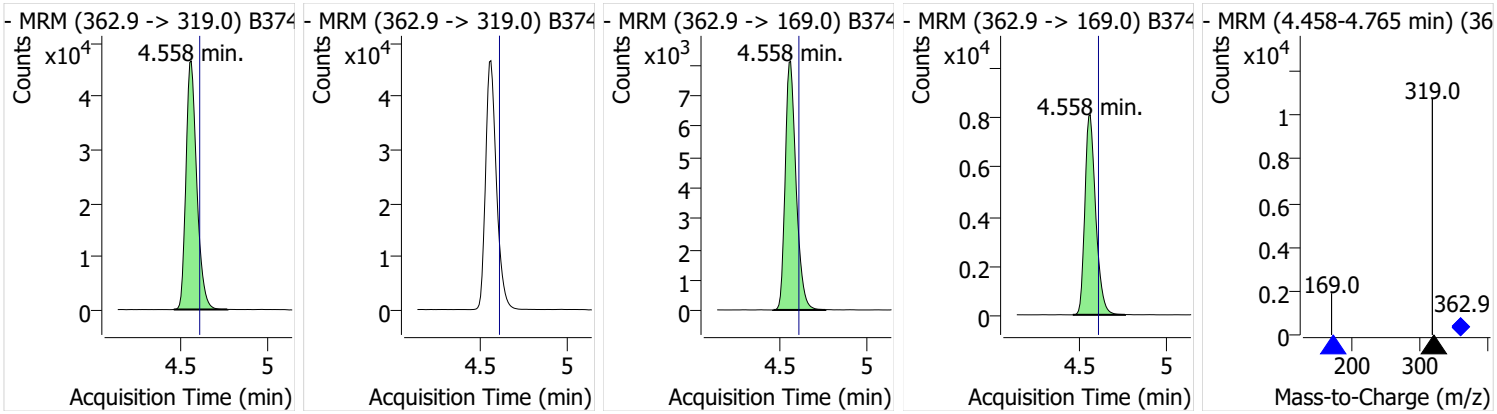

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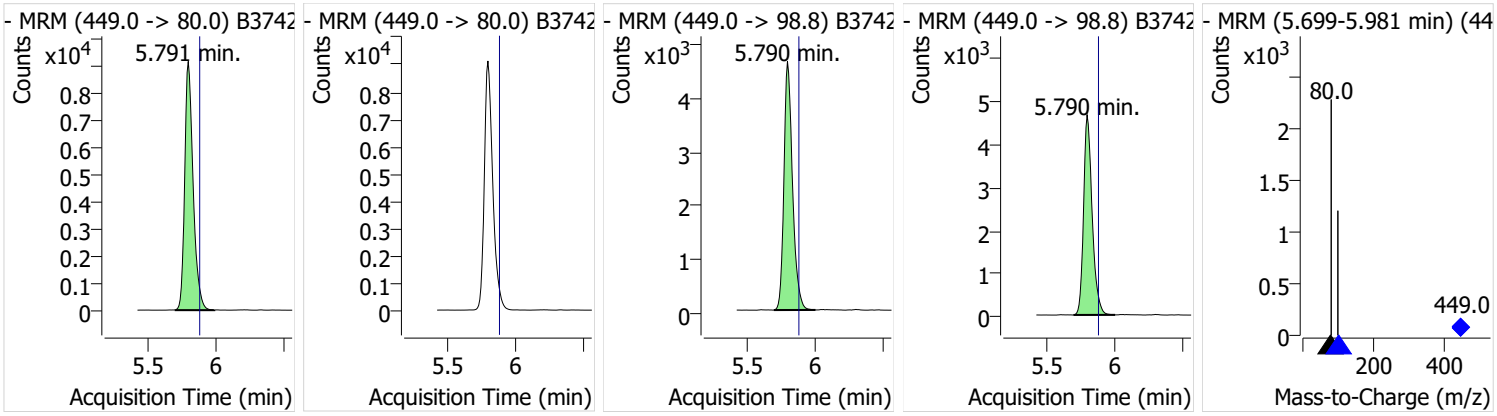

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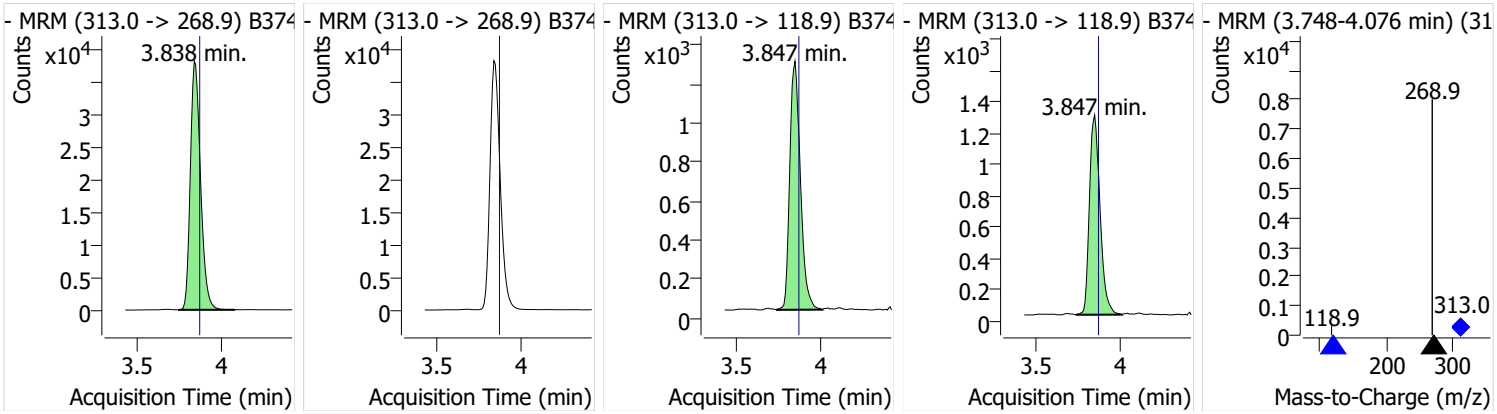

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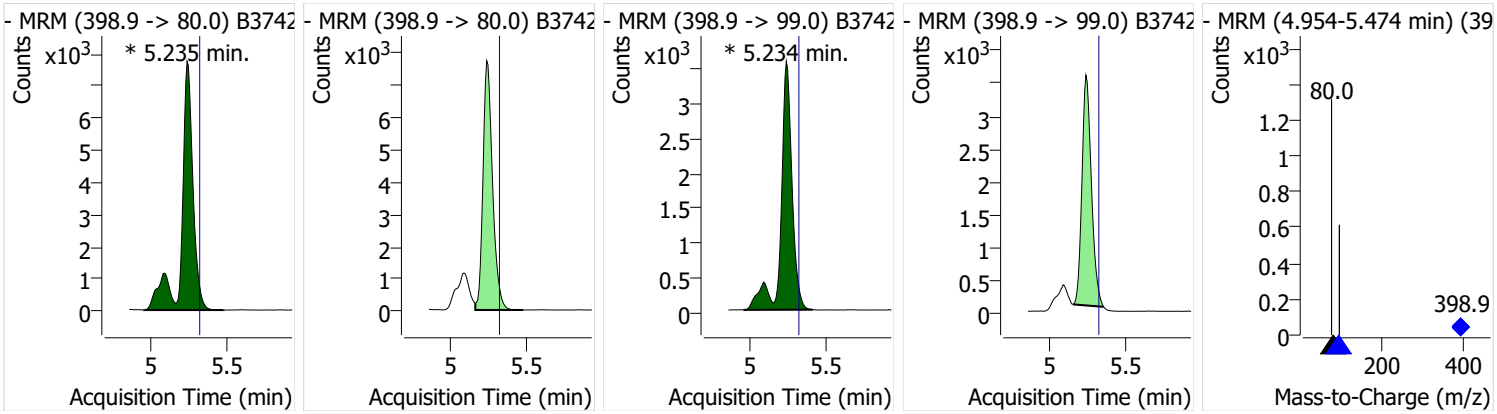

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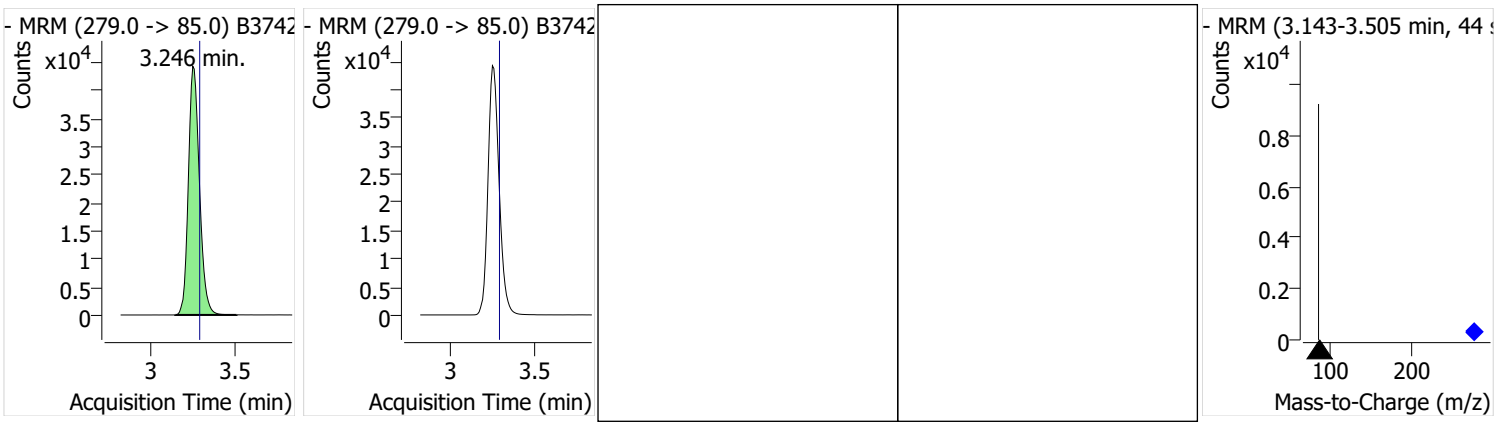

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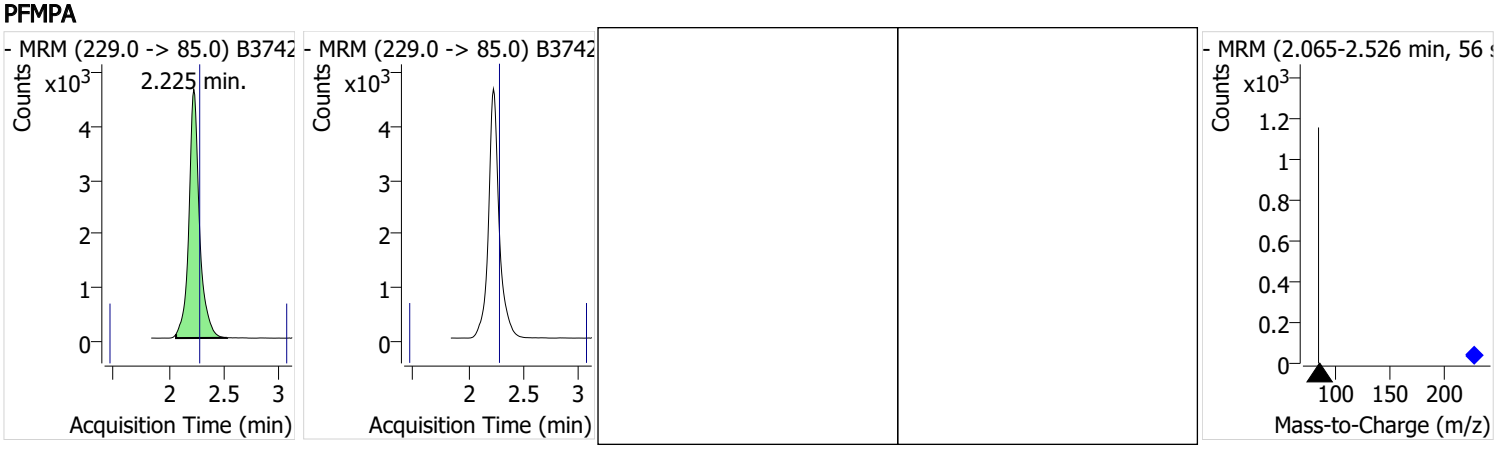

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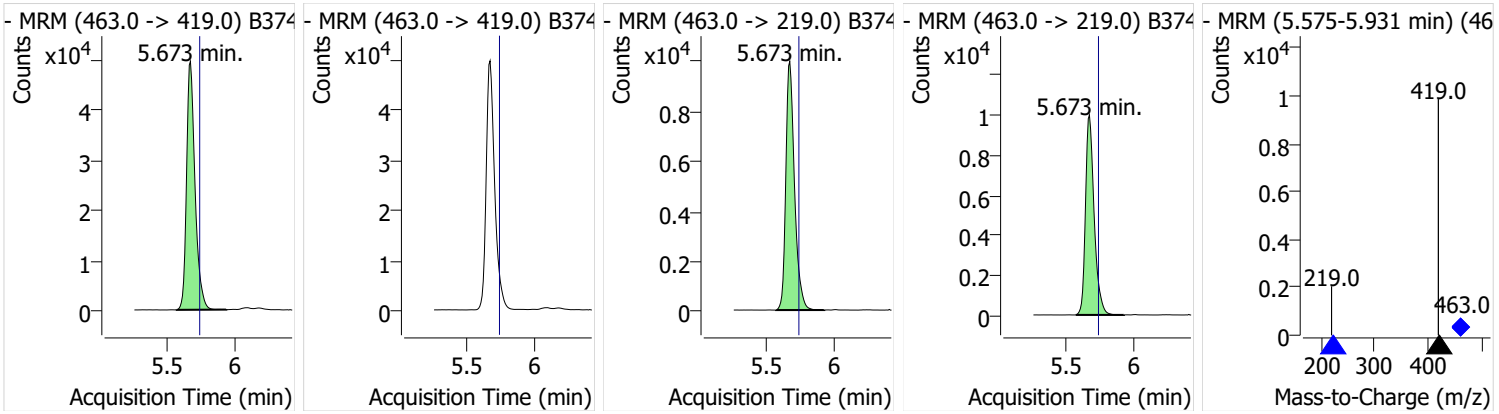

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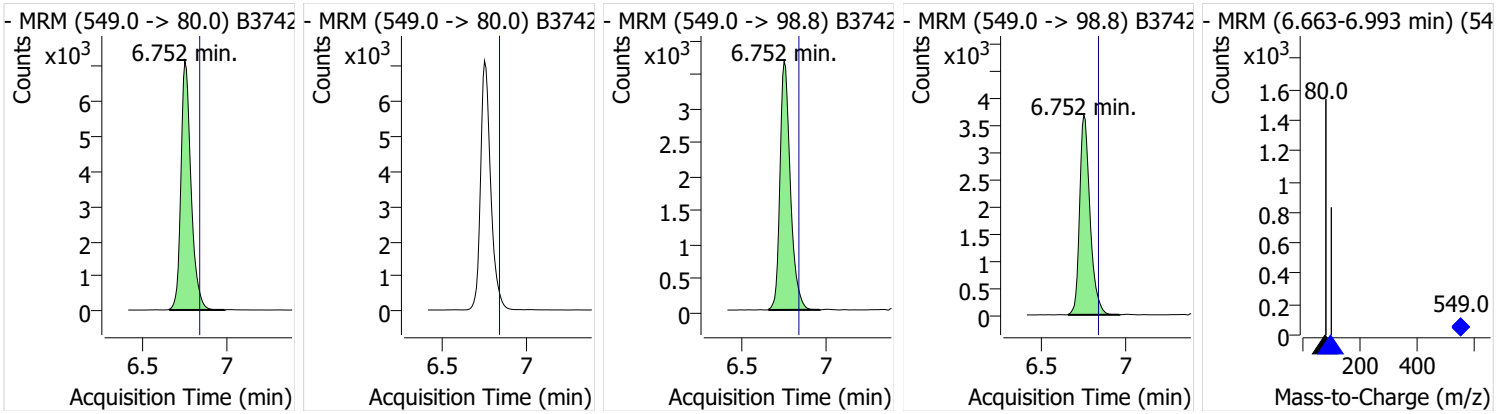

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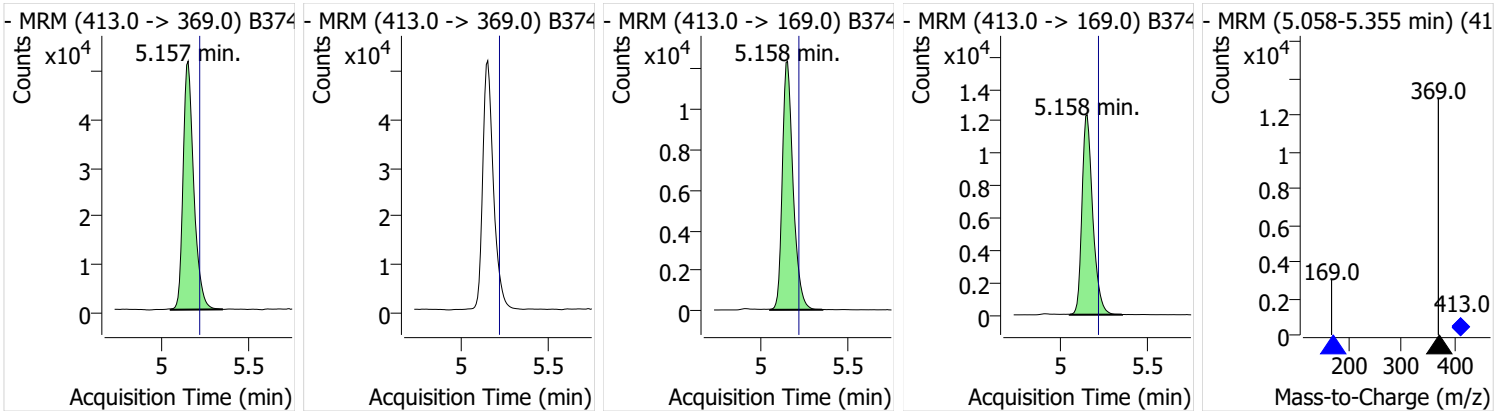

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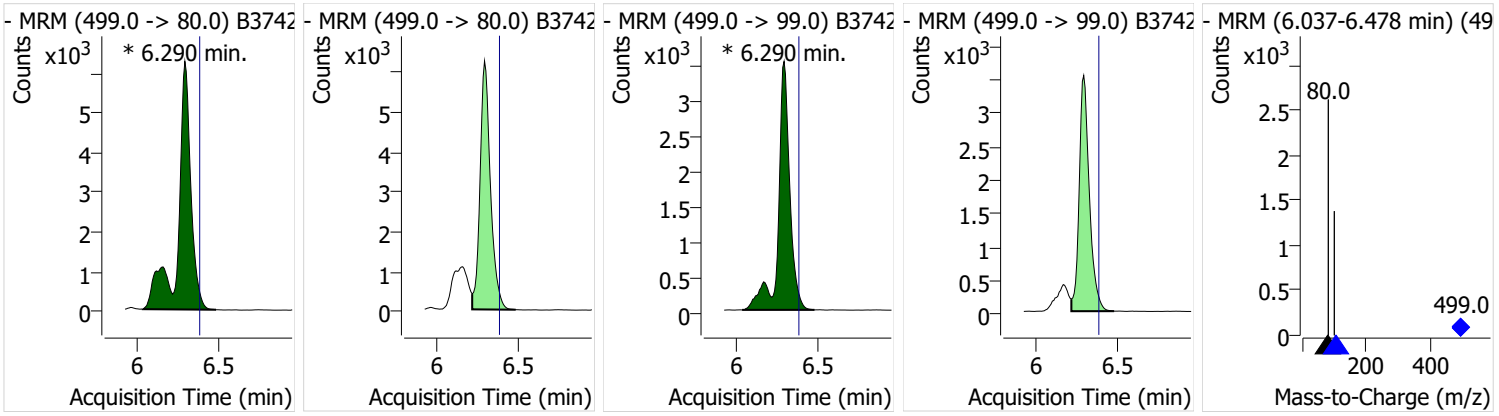

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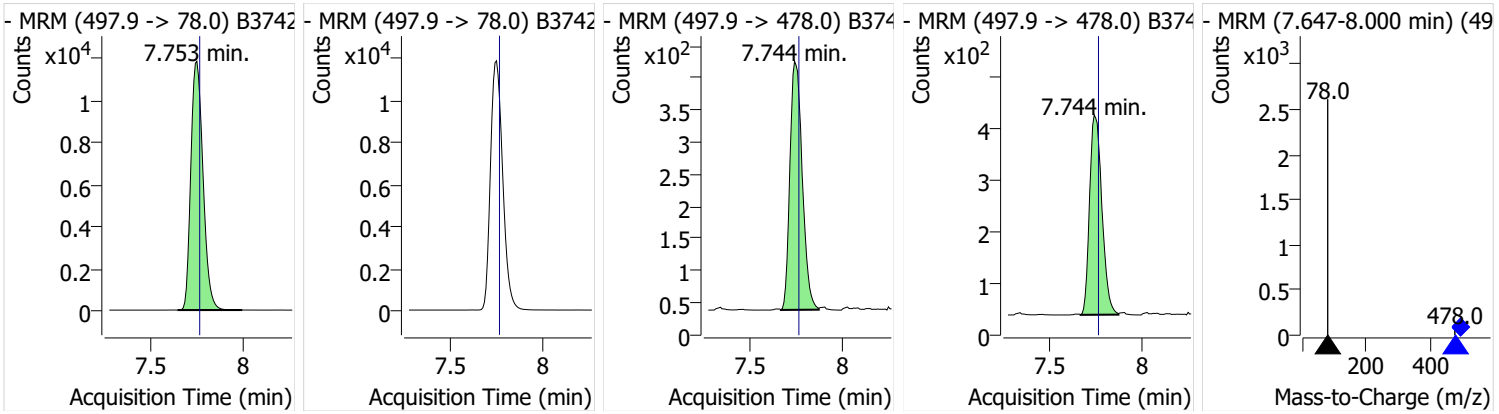

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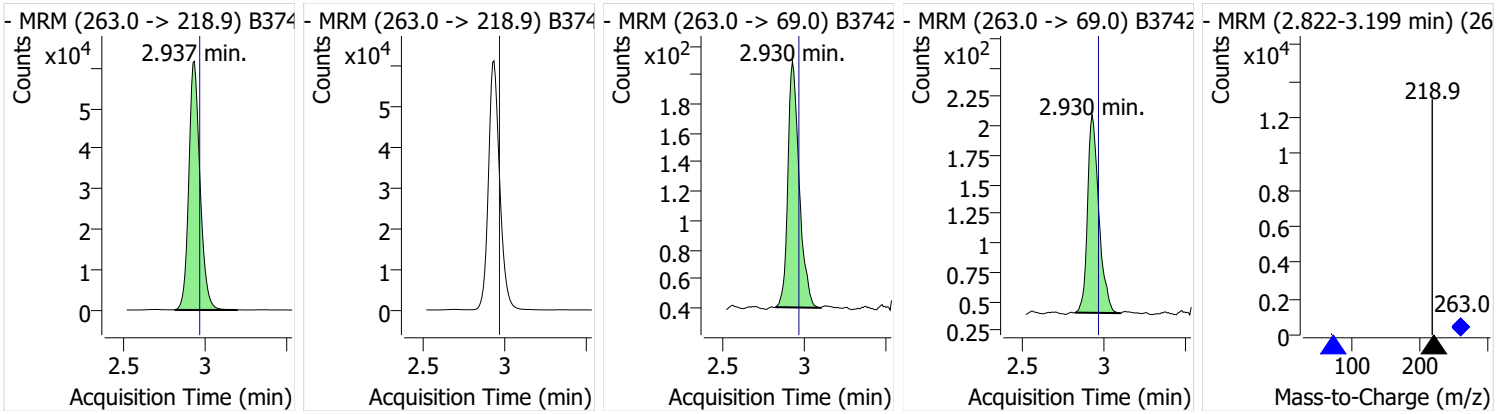

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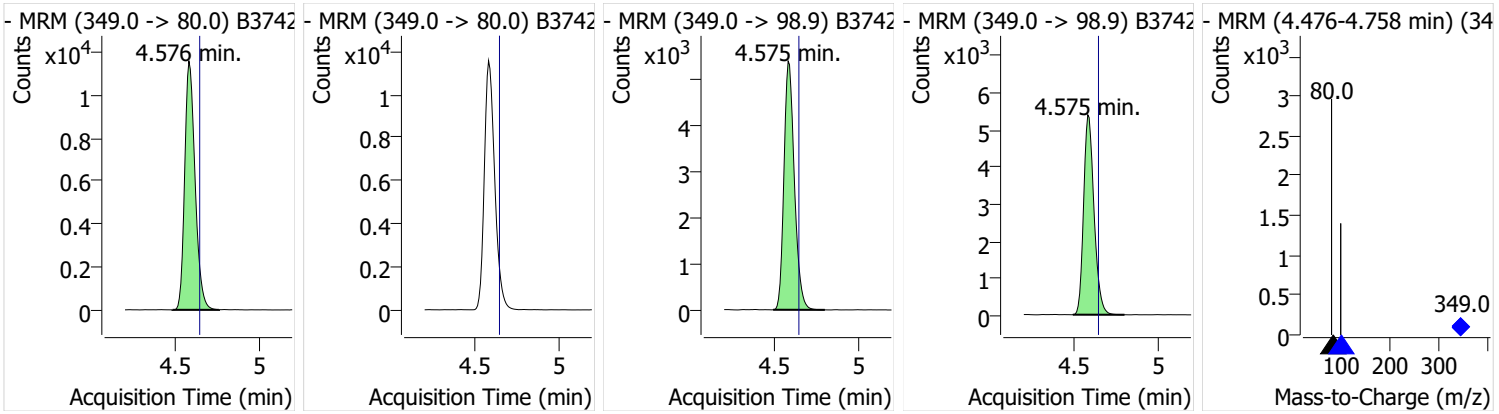

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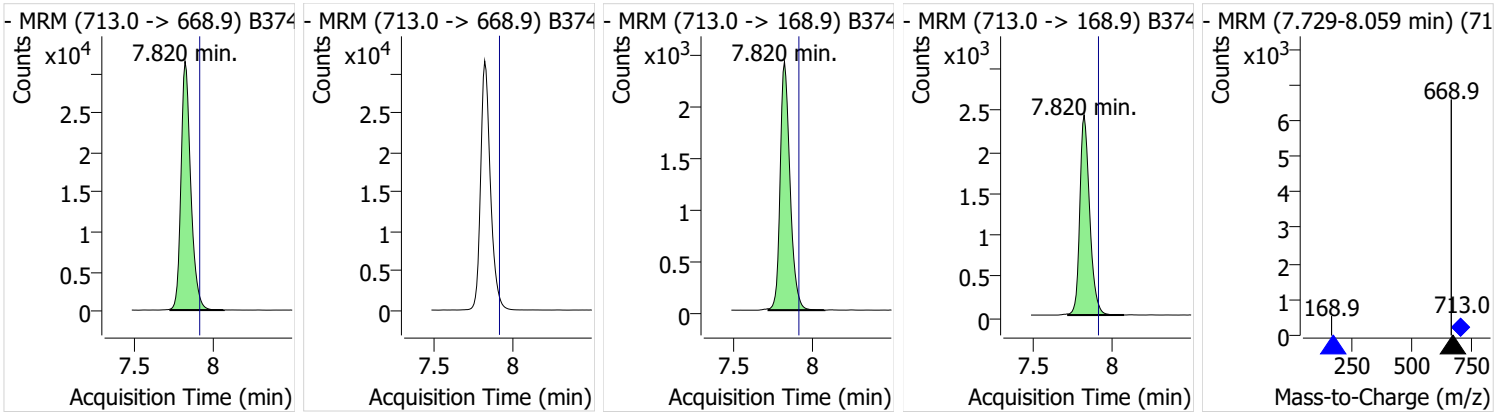

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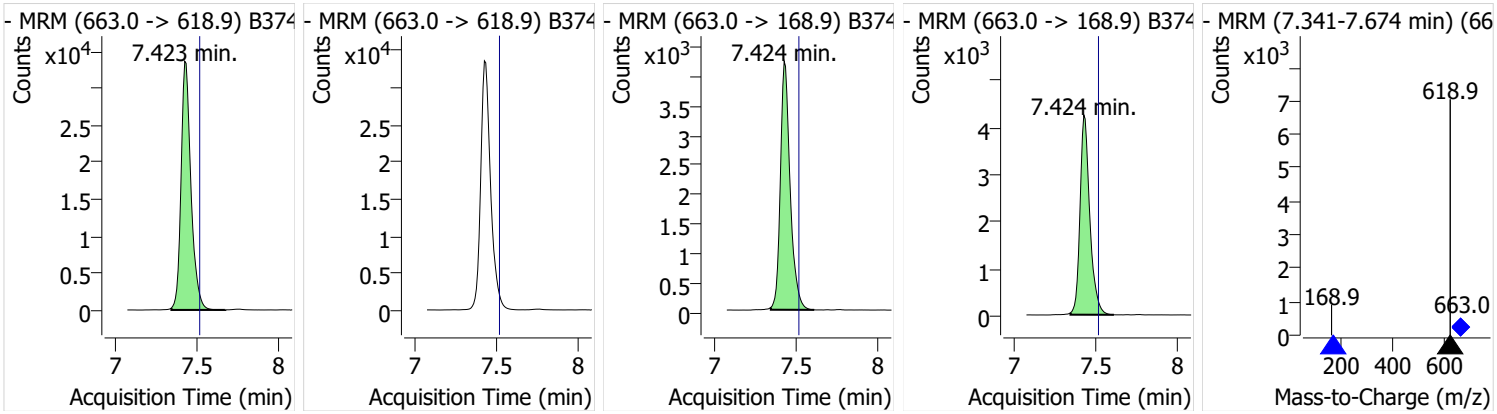

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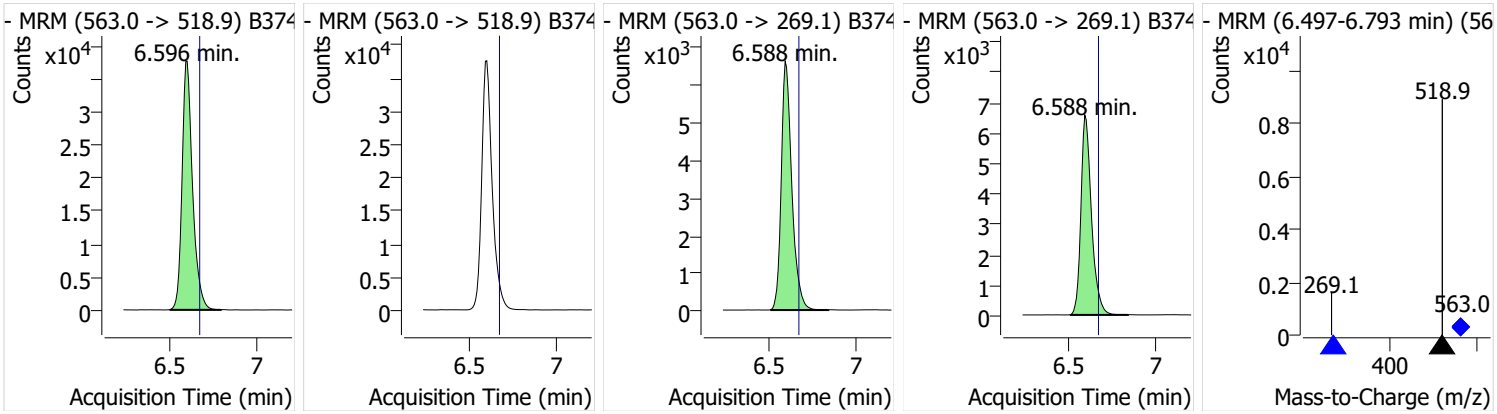

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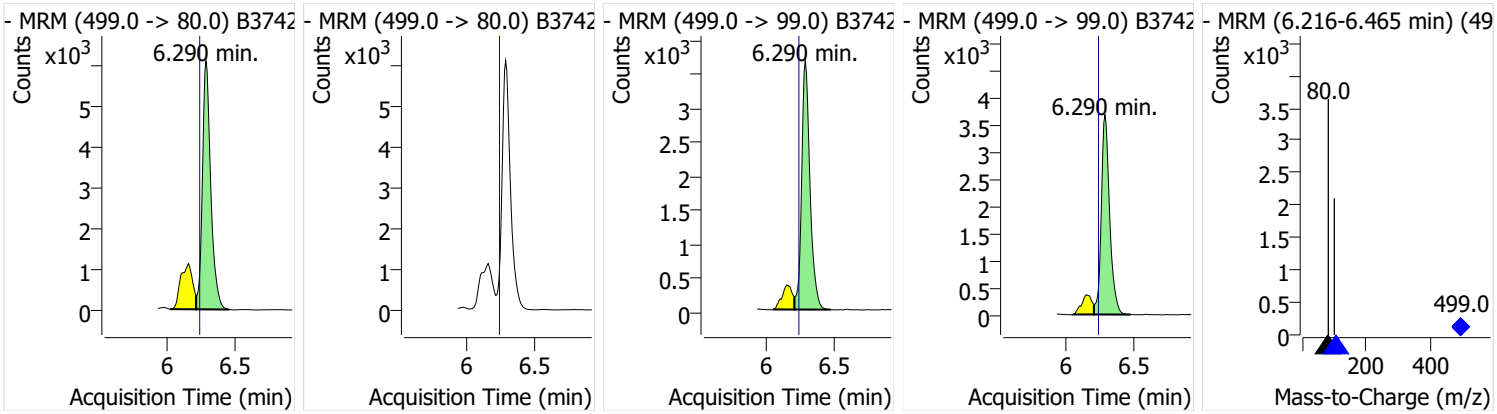
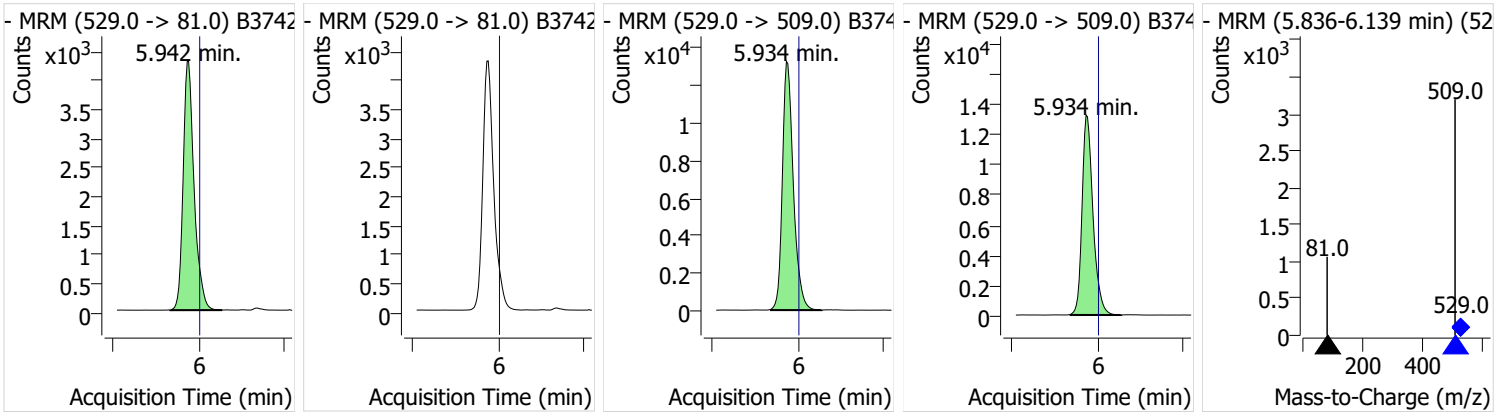
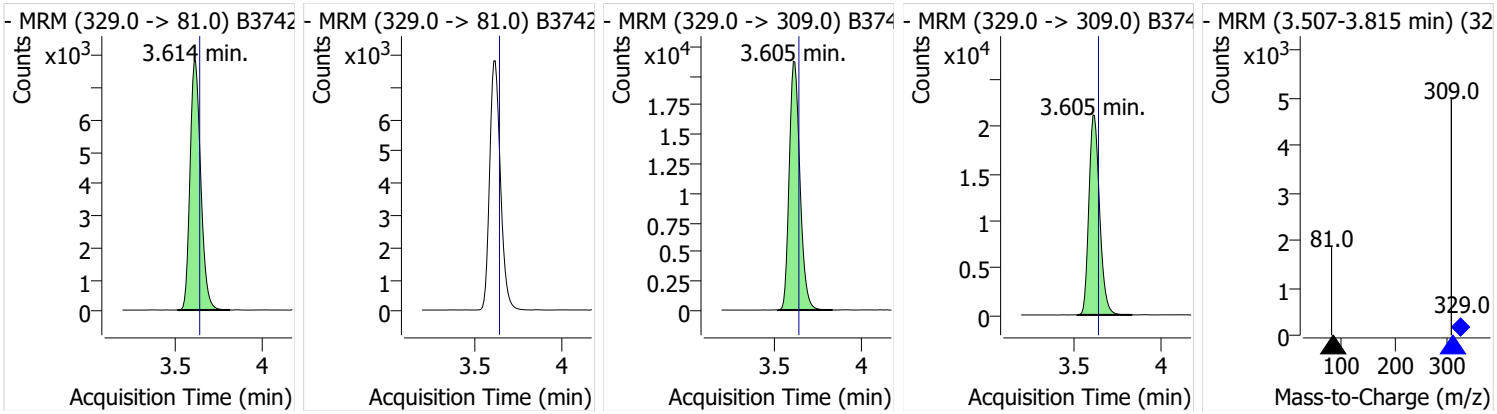


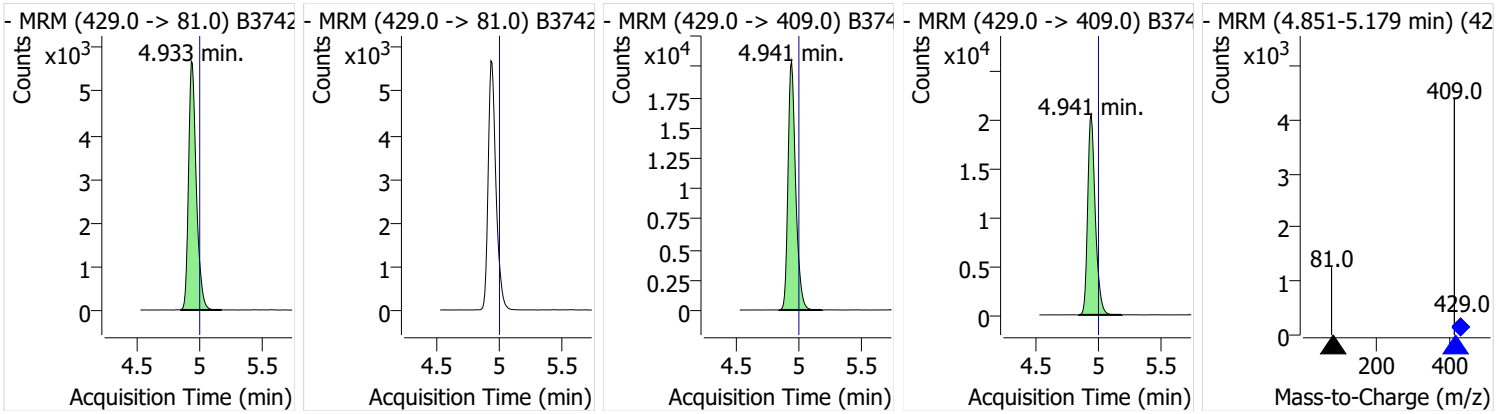
13C2-8:2FTS



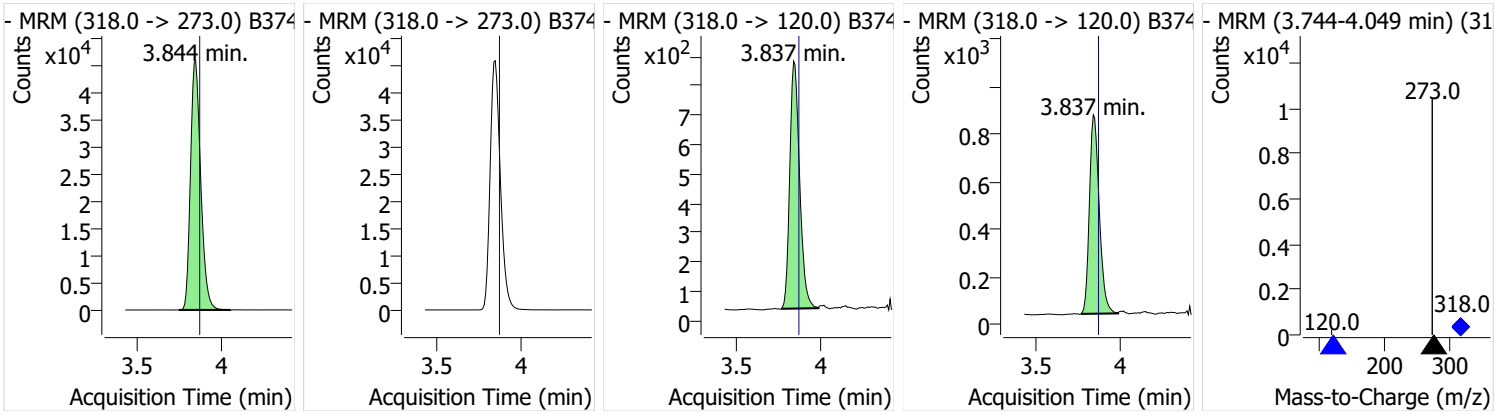
13C2-4:2FTS



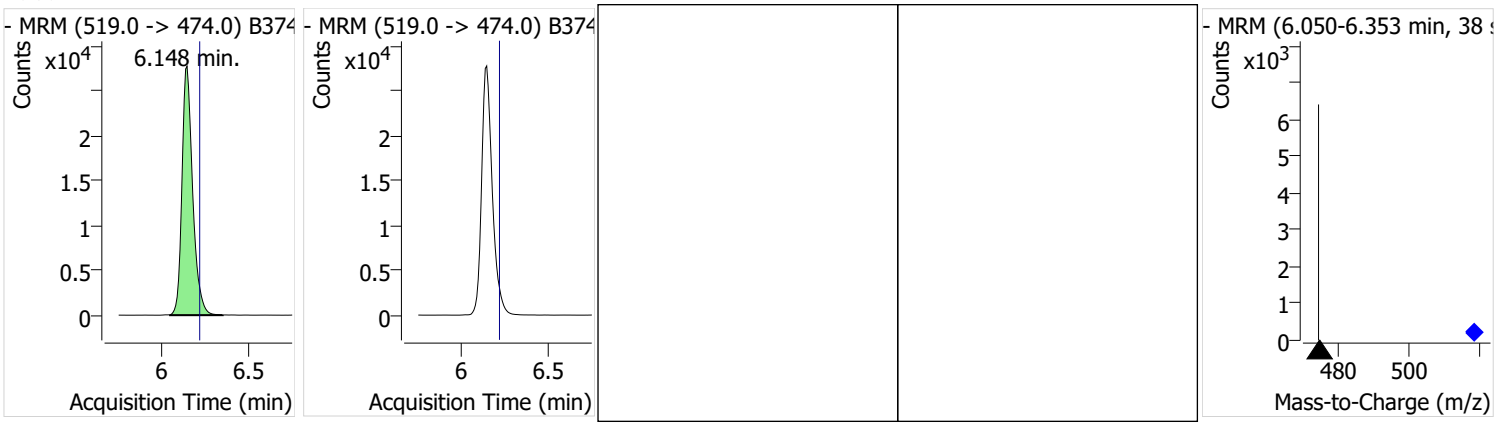
13C2-6:2FTS



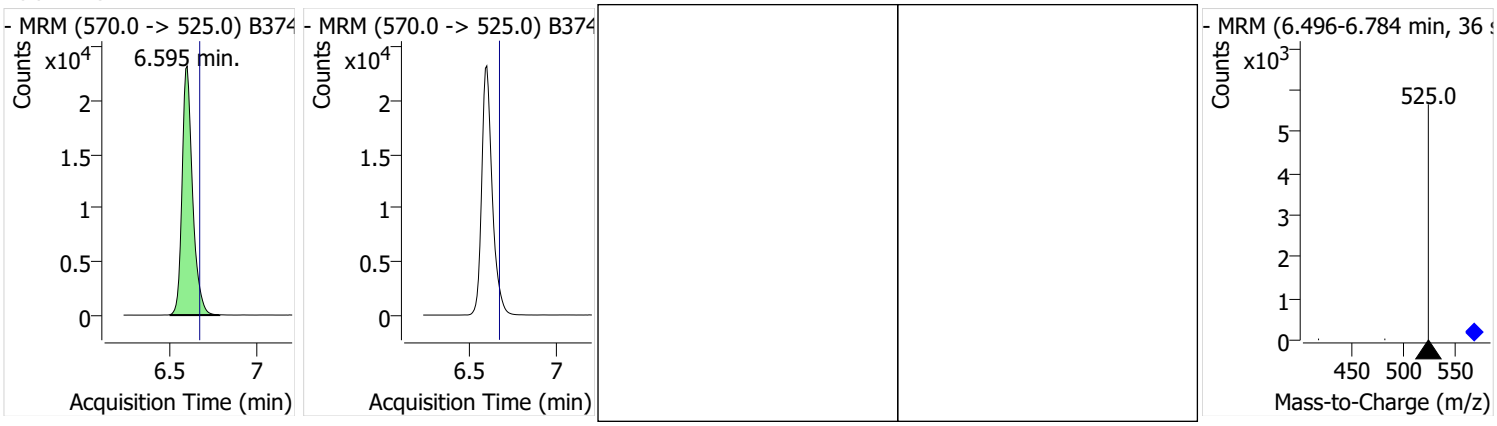
13C5-PFHxA



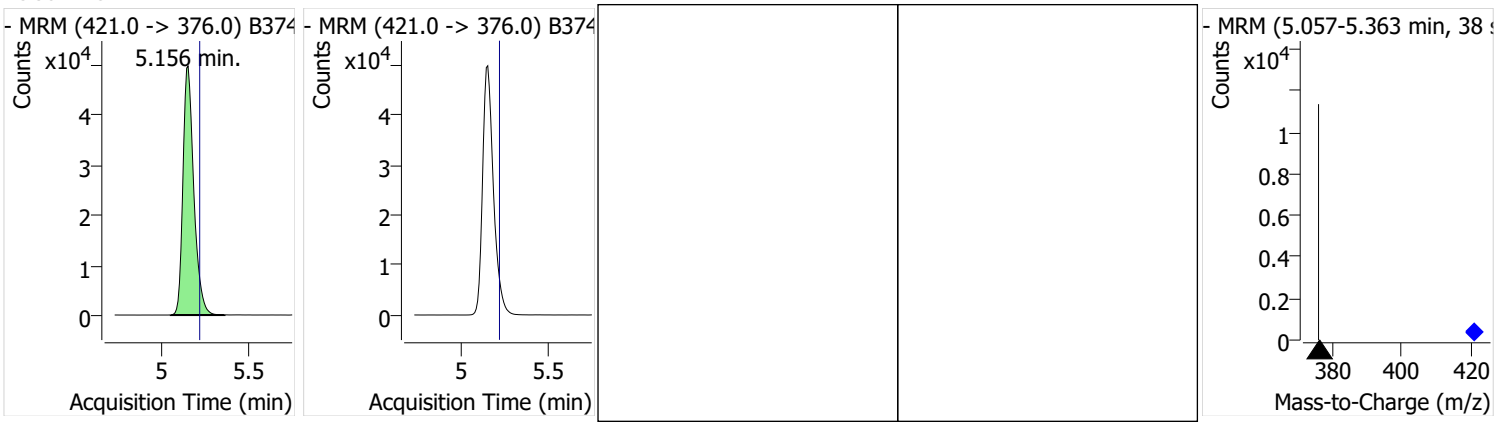
13C6-PFDA



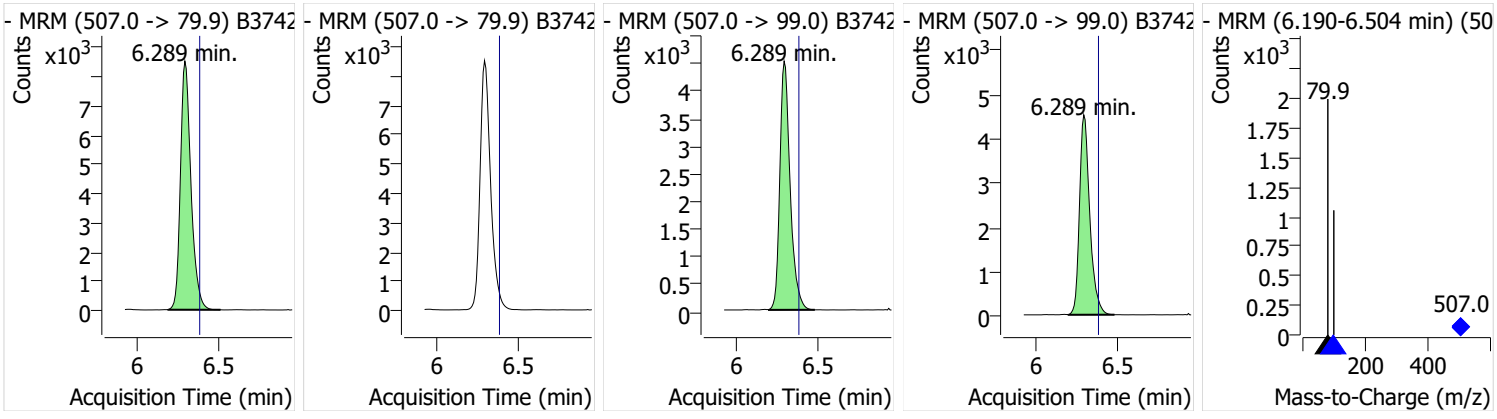
13C7-PFUnA



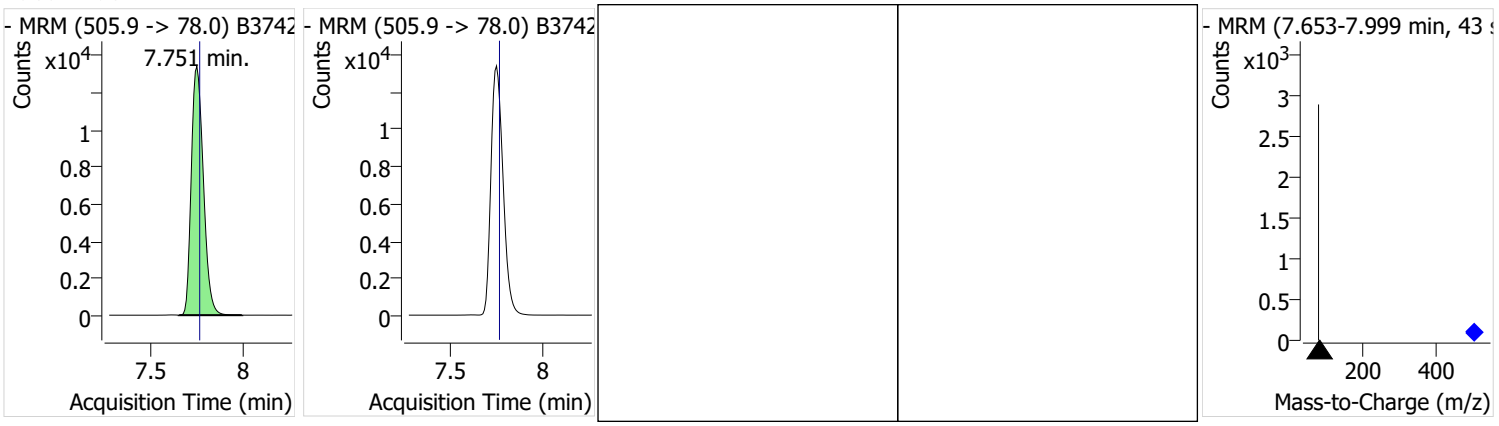
13C8-PFOA



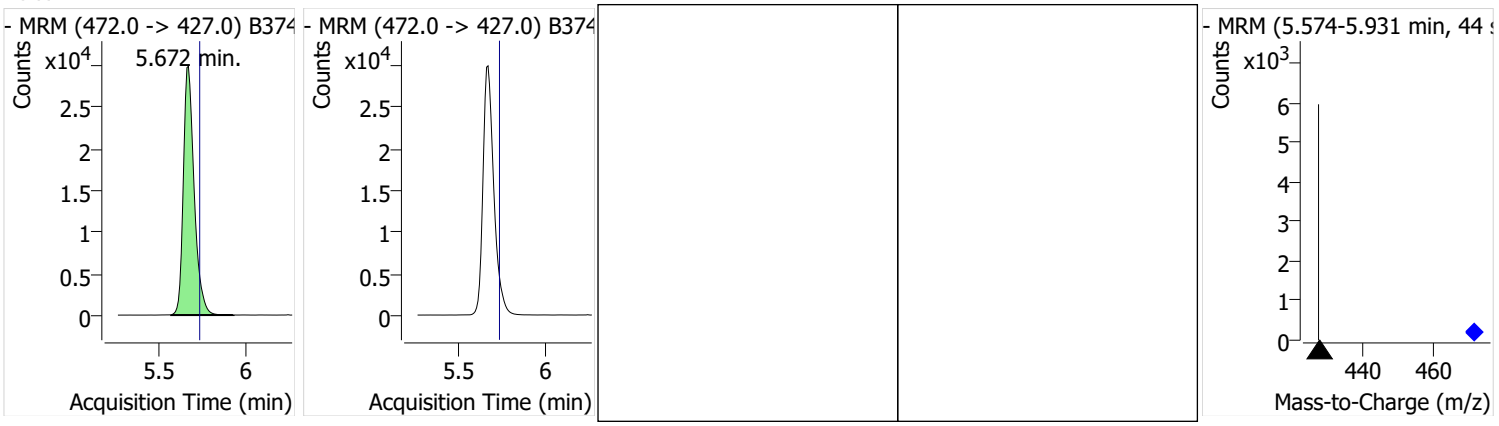
13C8-PFOS



13C8-PFOSA

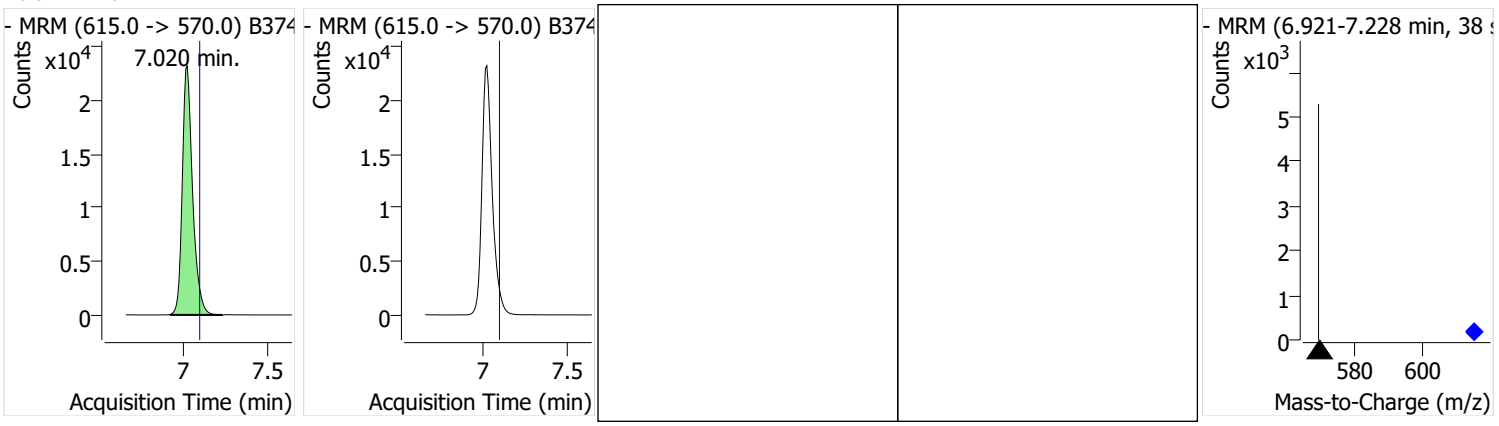


13C9-PFNA

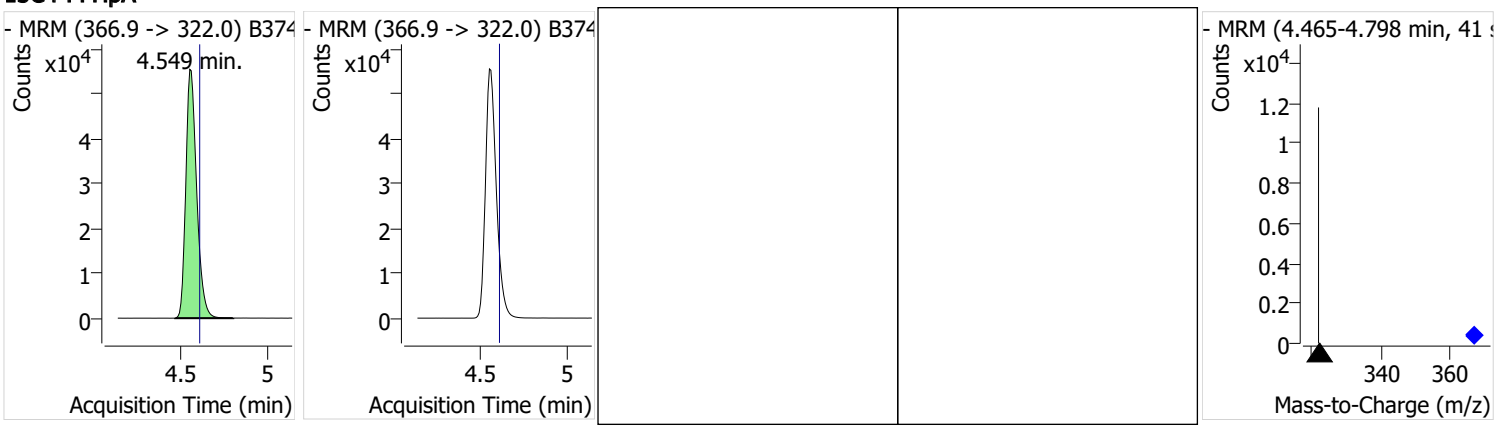


13C5-PFPeA

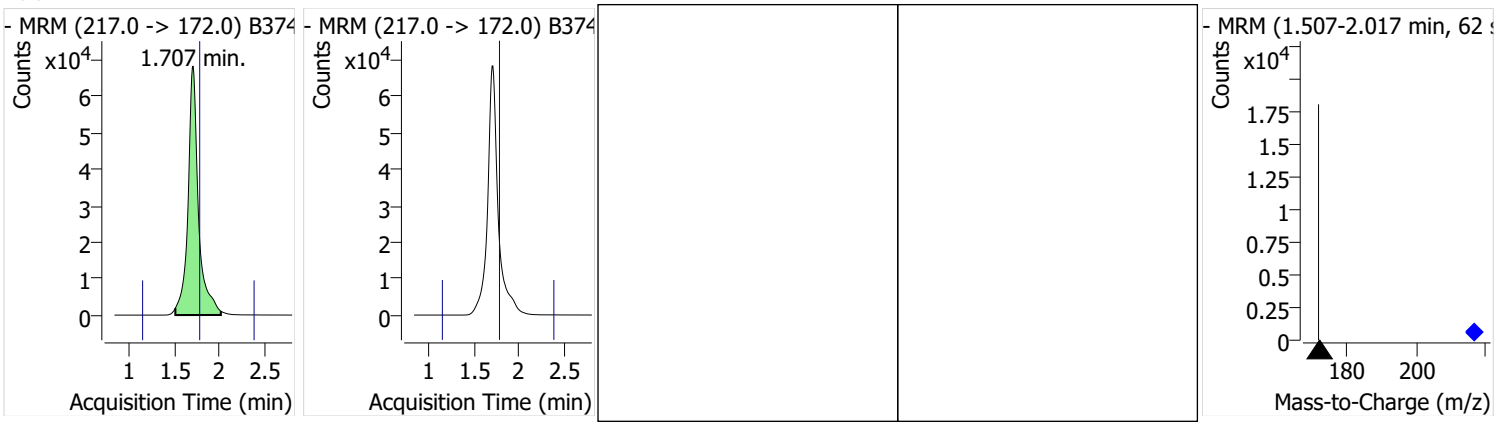
13C2-PFDoA



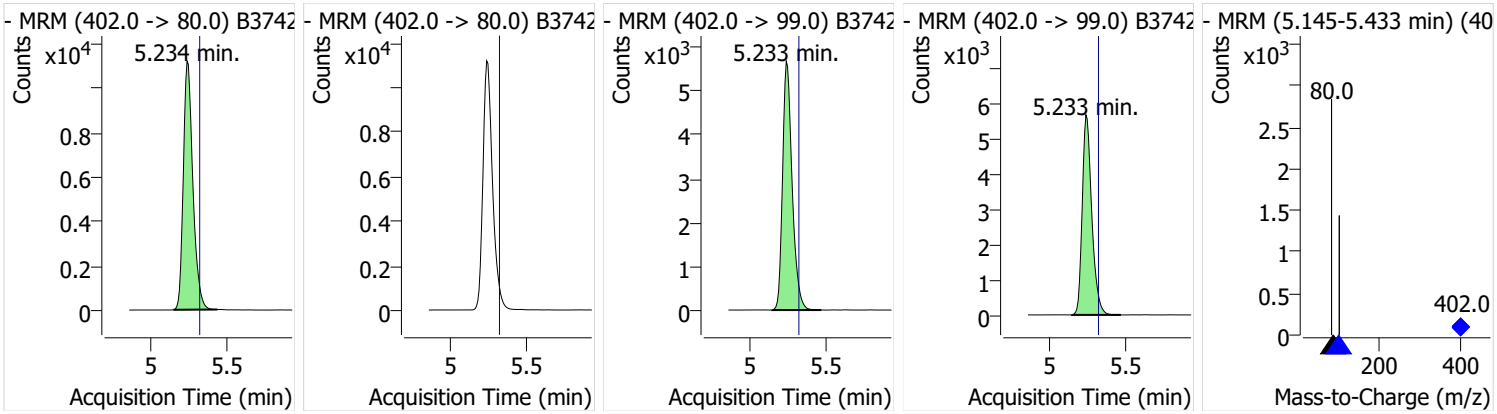
13C4-PFHpA



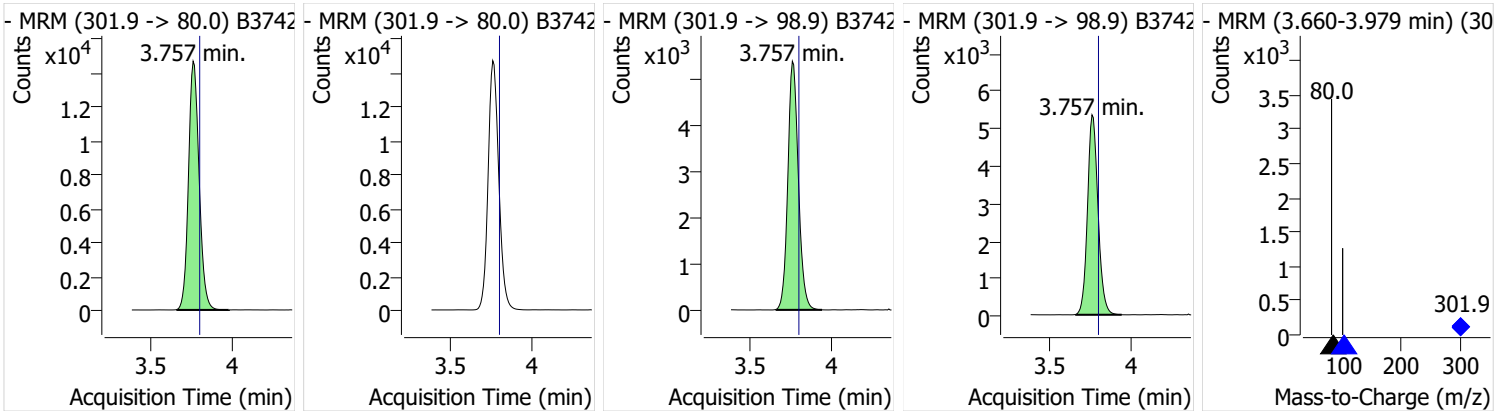
13C4-PFBA



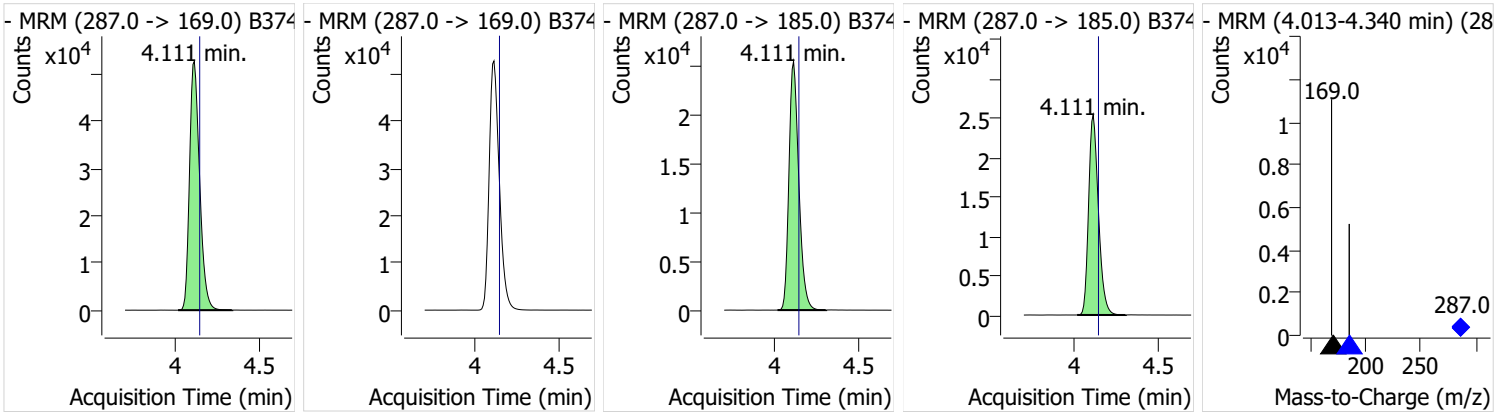
13C3-PFHxS



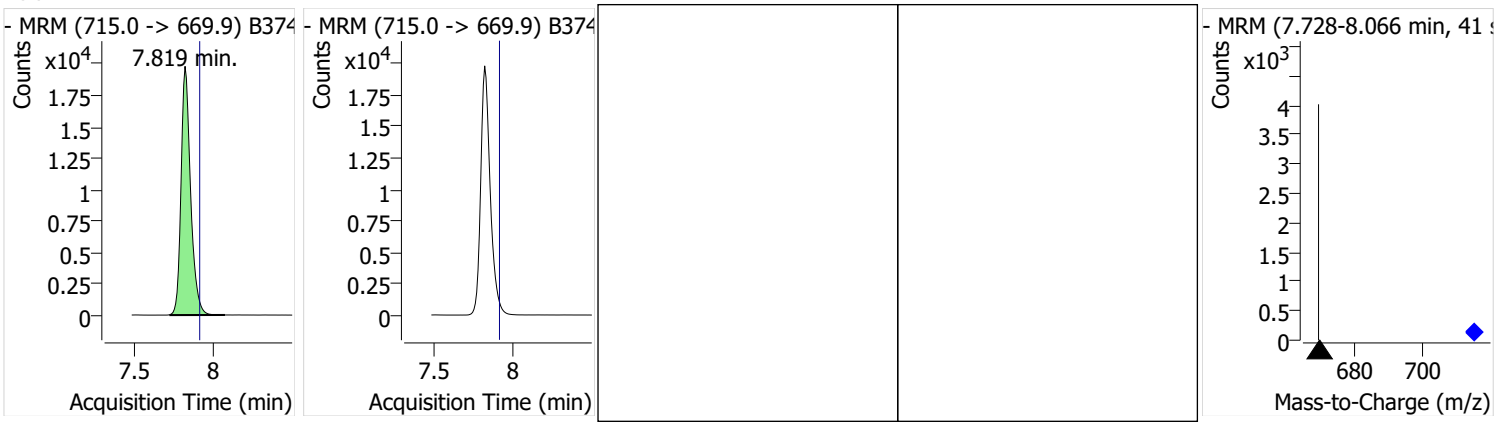
13C3-PFBS



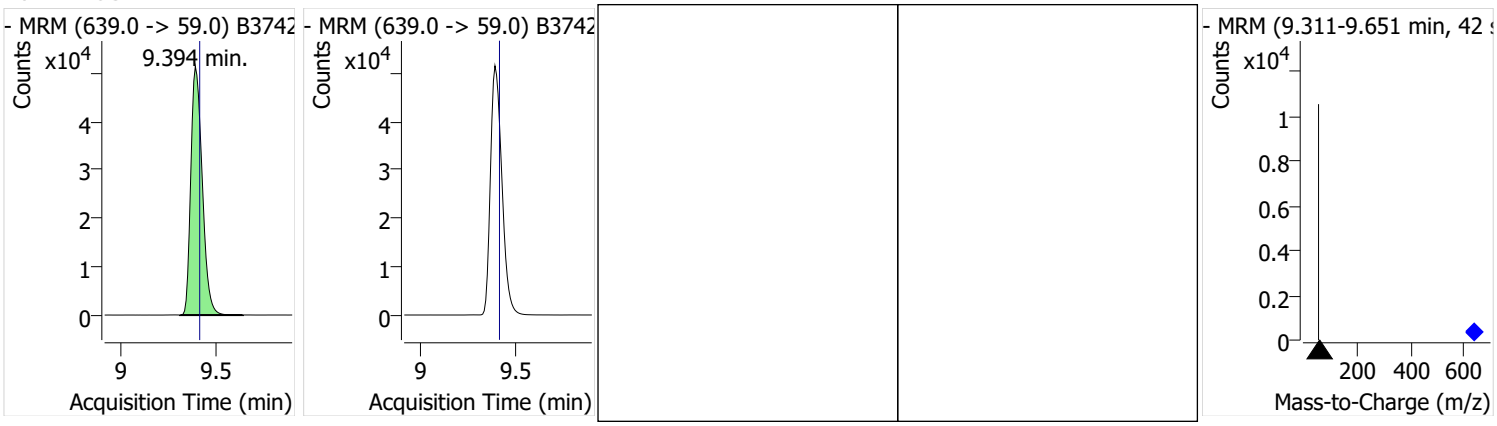
13C3-HFPODA



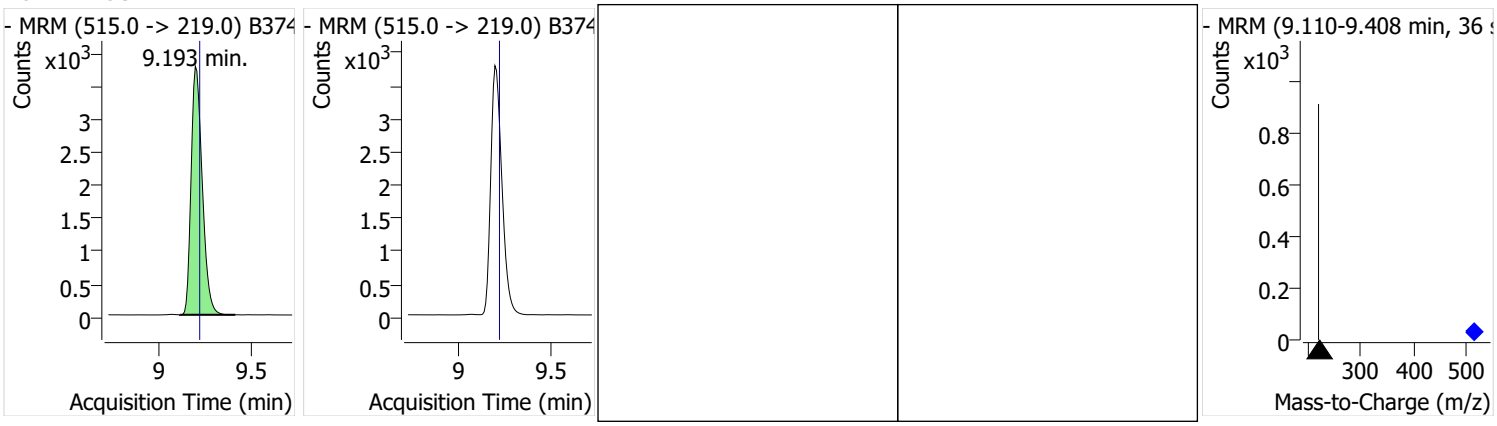
13C2-PFTeDA



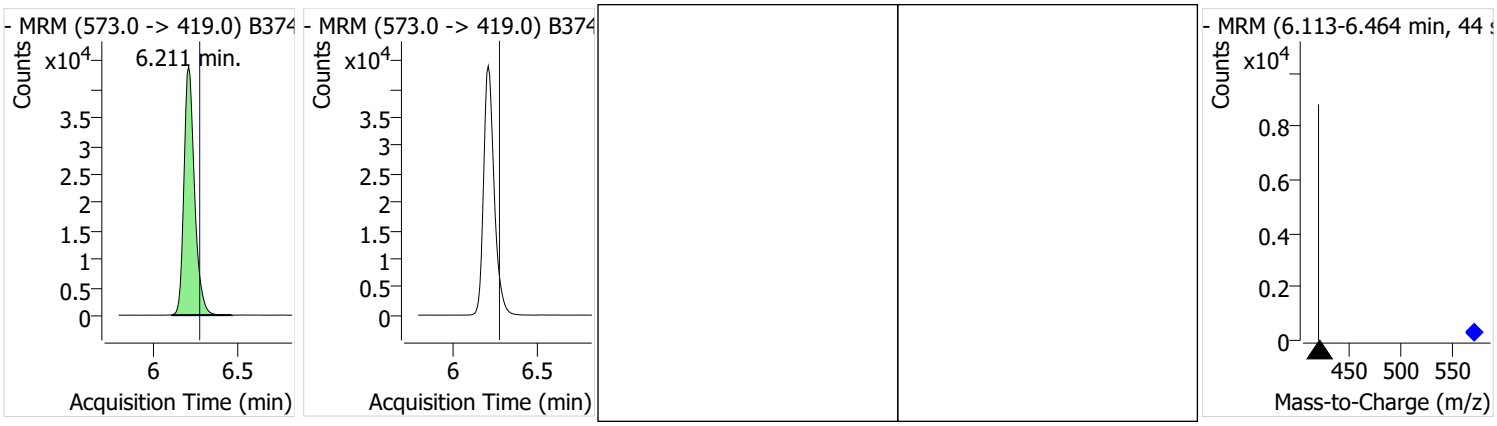
D9-NEtFOSE



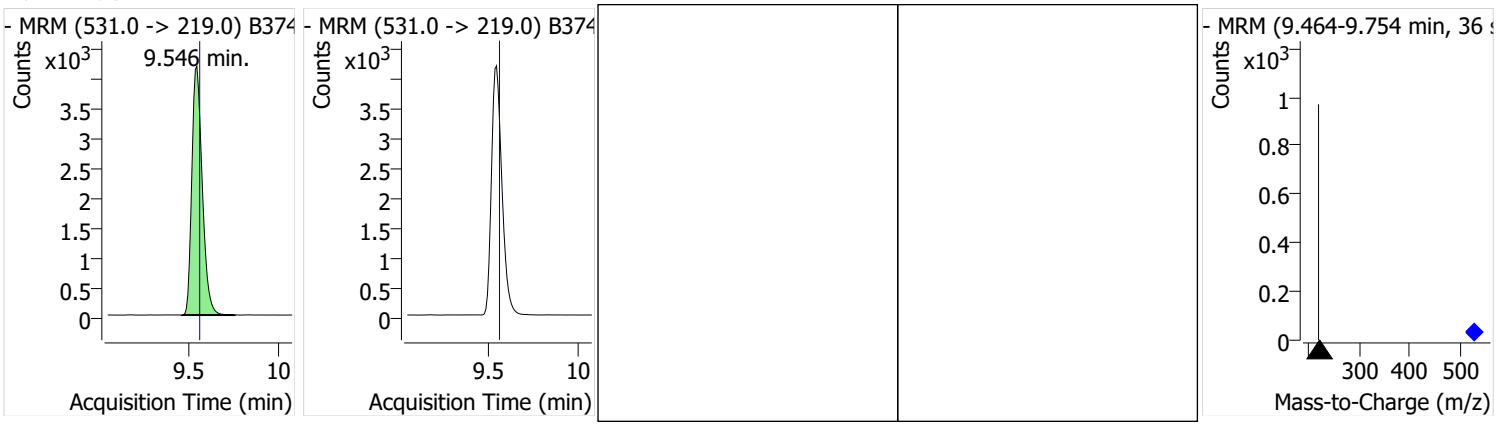
D3-NMeFOSA



D3-NMeFOSAA

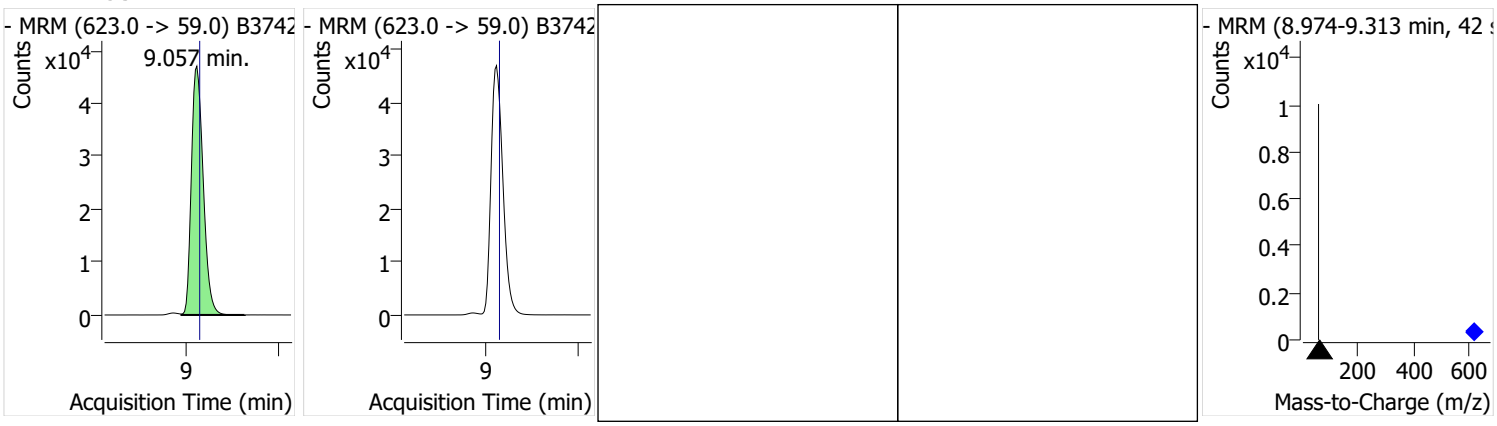


D5-NEtFOSA



D5-NEtFOSAA

D7-NMeFOSE



1 - FORM I
ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374213-MS1	File ID:	B374213-MS1.d
Sampled:		Prepared:	05/15/24 00:00	Analyzed:	05/18/24 07:31
Solids:		Preparation:	Draft Method 1633	Dilution:	
Initial/Final:	7.01 g / 5 mL				
Batch:	B374213	Sequence:	S104823	Calibration:	2400518
Instrument:	QQQ6				
Column:	1				

CAS NO.	COMPOUND	CONC. (µg/kg dry)	MDL	RL	Q
375-22-4	Perfluorobutanoic acid (PFBA)	8.86	0.32	0.79	
2706-90-3	Perfluoropentanoic acid (PFPeA)	4.51	0.045	0.39	
307-24-4	Perfluorohexanoic acid (PFHxA)	2.25	0.033	0.20	
375-85-9	Perfluoroheptanoic acid (PFHpA)	2.22	0.014	0.20	
335-67-1	Perfluorooctanoic acid (PFOA)	2.45	0.031	0.20	
375-95-1	Perfluorononanoic acid (PFNA)	2.27	0.014	0.20	
335-76-2	Perfluorodecanoic acid (PFDA)	2.17	0.017	0.20	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	2.25	0.023	0.20	
307-55-1	Perfluorododecanoic acid (PFDoA)	2.30	0.021	0.20	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	2.22	0.022	0.20	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	2.24	0.020	0.20	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1.86	0.021	0.20	
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	2.17	0.025	0.20	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	2.00	0.077	0.20	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	2.21	0.021	0.20	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	2.38	0.031	0.20	
68259-12-1	Perfluorononanesulfonic acid (PFNS)	2.17	0.022	0.20	
335-77-3	Perfluorodecanesulfonic acid (PFDS)	2.13	0.031	0.20	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1.79	0.030	0.20	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (	8.32	0.069	0.79	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid ((	8.29	0.50	0.79	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (	9.22	0.091	0.79	
754-91-6	Perfluorooctanesulfonamide (PFOSA)	2.20	0.031	0.20	
31506-32-8	N-methyl perfluoroocatnesulfonamide (NMeF	2.37	0.025	0.20	
4151-50-2	N-ethyl perfluorooctanesulfonamide (NEtFOS	2.26	0.023	0.20	
2355-31-9	N-MeFOSAA (NMeFOSAA)	1.98	0.035	0.20	V-05
2991-50-6	N-EtFOSAA (NEtFOSAA)	2.19	0.029	0.20	
24448-09-7	N-methylperfluorooctanesulfonamidoethanol(	25.5	0.21	2.0	
1691-99-2	N-ethylperfluorooctanesulfonamidoethanol (N	25.5	0.21	2.0	

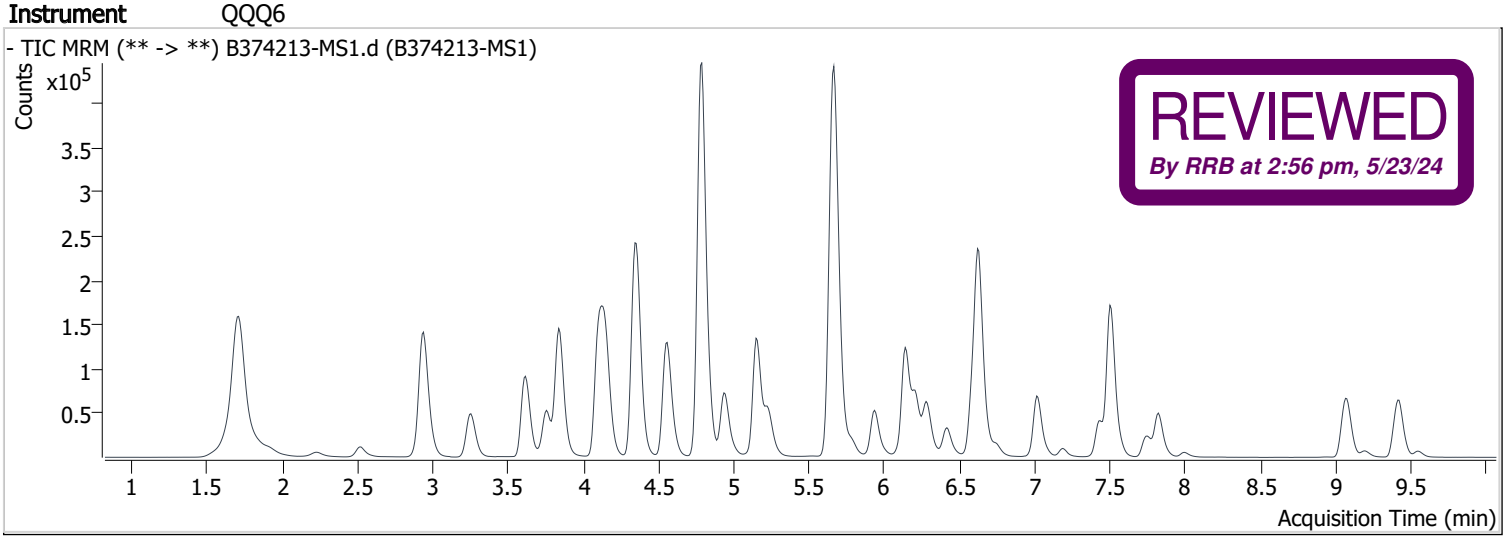
1 - FORM I
ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374213-MS1	File ID:	B374213-MS1.d
Sampled:		Prepared:	05/15/24 00:00	Analyzed:	05/18/24 07:31
Solids:		Preparation:	Draft Method 1633	Dilution:	
Initial/Final:	7.01 g / 5 mL				
Batch:	B374213	Sequence:	S104823	Calibration:	2400518
Instrument:	QQQ6				
Column:	1				

CAS NO.	COMPOUND	CONC. (µg/kg dry)	MDL	RL	Q
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPC	9.18	0.050	0.79	
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADON/	8.72	0.059	0.79	
756426-58-1	9Cl-PF3ONS (F53B Minor)	9.19	0.057	0.79	
763051-92-9	11Cl-PF3OUdS (F53B Major)	9.10	0.087	0.79	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)(3:3	15.2	0.19	2.0	
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)	73.1	1.3	9.8	MS-07A
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)(7:3	86.6	1.5	9.8	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEE	4.39	0.031	0.39	
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	4.39	0.032	0.39	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	4.55	0.032	0.39	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.97	0.059	0.39	

Batch Path	R:\Data\MAY2024\051724\QuantResults\B374213.batch.bin		
Analysis Time	5/23/2024 5:54 AM	**Last Calib Update**	5/9/2024 9:16 AM
Acq. Time	5/18/2024 7:31 AM	**Data File**	B374213-MS1.d
Sample Type	QC	**Sample Name**	B374213-MS1
Dilution	1	**Acq. Method**	1633_ACQUISITION_01.m
Sample Comment		**Processing method**	1633_050824.m
Instrument	QQQ6		



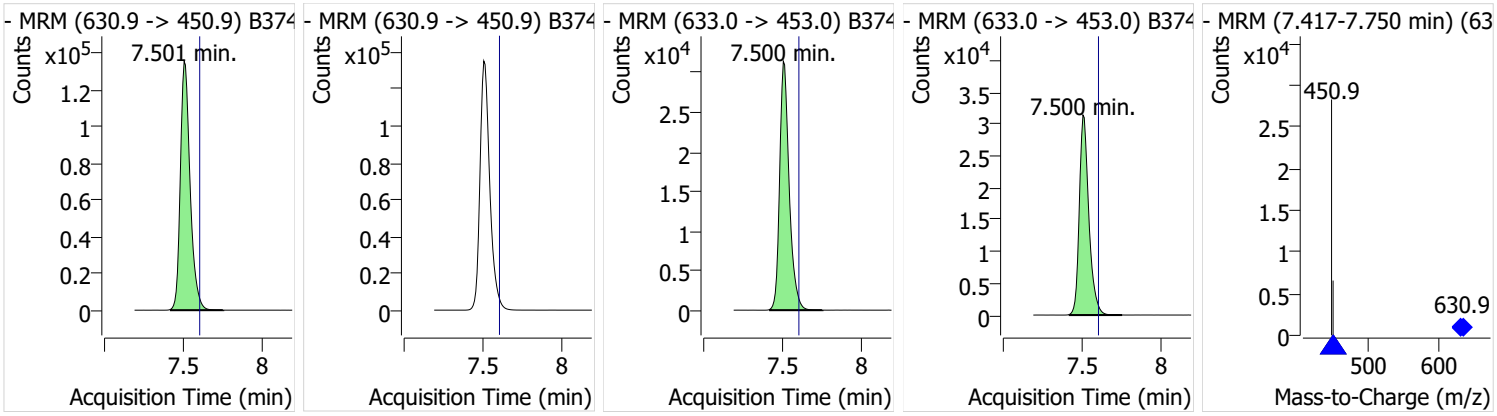
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
11Cl-PF3OUdS	7.501	581887	51217.27		13C3-HFPODA - ISTD	4.111	213187	9.2491	ng/ml			
633.0 -> 453.0			18143.76	22.6								
3:3FTCA	2.513	37966	6135.36		13C5-PFPeA - ISTD	2.937	344701	15.4961	ng/ml			
241.0 -> 117.0			1455.46	47.9								
4:2FTS	3.614	181507	24567.28		13C2-4:2FTS - ISTD	3.614	36744	8.4623	ng/ml			
327.0 -> 80.9			5568.95	37.7								
5:3FTCA	4.343	558635	32805.78		13C5-PFHxA - ISTD	3.836	188647	74.3163	ng/ml			
341.0 -> 217.0			17783.54	91.5								
6:2FTS	4.934	141157	9161.90		13C2-6:2FTS - ISTD	4.941	24726	8.4276	ng/ml			
427.0 -> 80.9			3333.59	31.7								
7:3FTCA	5.658	779670	14072.99		13C5-PFHxA - ISTD	3.836	188647	88.0730	ng/ml			
441.0 -> 317.0			8744.14	88.5								
8:2FTS	5.935	97764	9019.32		13C2-8:2FTS - ISTD	5.934	20424	9.3764	ng/ml			
527.0 -> 81.0			8508.64	40.2								
9Cl-PF3ONS	6.630	657644	45329.12		13C3-HFPODA - ISTD	4.111	213187	9.3476	ng/ml			
533.0 -> 353.0			25715.68	31.3								
ADONA	4.789	1403692	28498.98		13C3-HFPODA - ISTD	4.111	213187	8.8618	ng/ml			
377.0 -> 85.1			21082.97	35.5								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA	4.104	183076	15831.40		13C3-HFPODA - ISTD	4.111	213187	9.3319	ng/ml			
285.0 -> 184.9			2730.90	51.9								
NEtFOSA	9.548	9140	4595.32		D5-NEtFOSA - ISTD	9.546	7650	2.2999	ng/ml			
526.0 -> 219.0			4445.65	96.6								
NEtFOSAA	6.423	42791	6397.86		D5-NEtFOSAA - ISTD	6.414	77031	2.2948	ng/ml	✔	3	ALB 5/22/24
584.0 -> 526.0			958.77	67.4								
NEtFOSE	9.420	159454	34953.98		D9-NEtFOSE - ISTD	9.394	137659	25.9266	ng/ml			
NFDHA	3.750	32190	6027.74		13C5-PFHxA - ISTD	3.836	188647	5.0475	ng/ml			
295.0 -> 85.0			2920.52	35.4								
NMeFOSA	9.203	9894	9218.29		D3-NMeFOSA - ISTD	9.193	8475	2.4103	ng/ml			
512.0 -> 219.0			7106.64	88.7								
NMeFOSAA	6.212	30387	2879.69		D3-NMeFOSAA - ISTD	6.203	177668	2.0169	ng/ml	✔	3	ALB 5/22/24
570.0 -> 418.9			7261.95	68.5								
NMeFOSE	9.074	160992	63496.77		D7-NMeFOSE - ISTD	9.057	143992	25.8944	ng/ml			
PFBA	1.704	451084	12299.00		13C4-PFBA - ISTD	1.707	542409	9.0095	ng/ml	✔	3	ALB 5/22/24
PFBS	3.758	64681	6535.21		13C3-PFBS - ISTD	3.757	68482	1.8922	ng/ml			
298.9 -> 98.8			3565.47	38.3								
PFDA	6.140	212753	6541.01		13C6-PFDA - ISTD	6.140	116769	2.2109	ng/ml			
513.0 -> 219.0			3776.40	16.5								
PFDoA	7.012	178567	6326.35		13C2-PFDoA - ISTD	7.011	92109	2.3389	ng/ml			
613.0 -> 319.0			4775.27	12.7								
PFDoS	7.995	12652	4984.62		13C8-PFOS - ISTD	6.281	34852	1.8216	ng/ml			
698.9 -> 99.0			3096.80	65.8								
PFDS	7.189	24548	6361.68		13C8-PFOS - ISTD	6.281	34852	2.1619	ng/ml			
599.0 -> 98.8			5033.52	57.7								
PFEESA	4.149	423631	48111.46		13C5-PFHxA - ISTD	3.836	188647	4.4619	ng/ml			
315.0 -> 83.0			4331.25	6.9								
PFHpA	4.550	219250	3766.59		13C4-PFHpA - ISTD	4.549	232596	2.2615	ng/ml			
362.9 -> 169.0			5784.92	17.0								
PFHpS	5.791	41340	5397.50		13C8-PFOS - ISTD	6.281	34852	2.2503	ng/ml			
449.0 -> 98.8			5460.14	51.4								

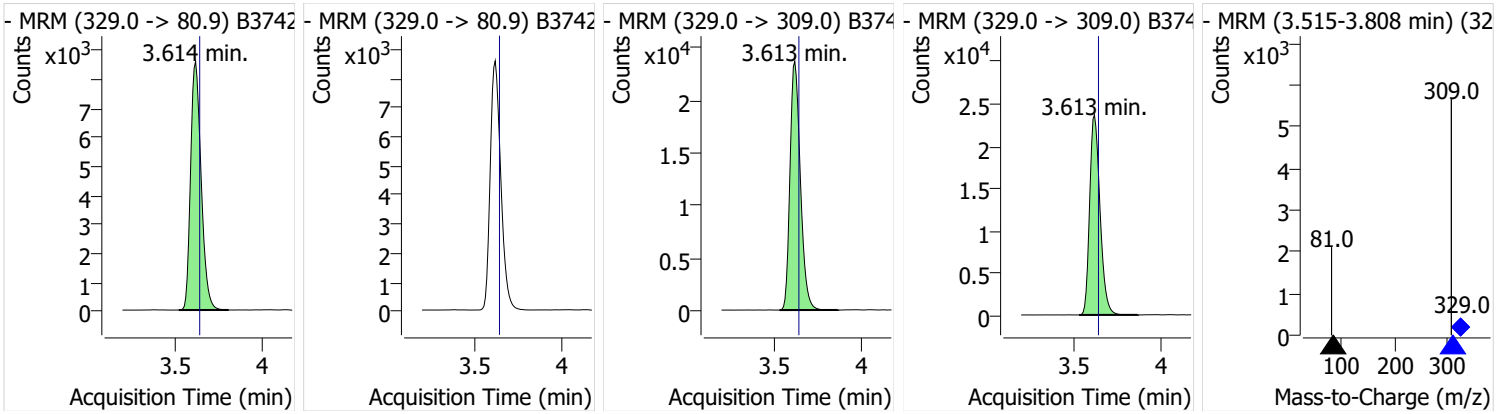
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFHxA	3.838	175322	5471.66		13C5-PFHxA - ISTD	3.836	188647	2.2859	ng/ml			
313.0 -> 118.9			897.01	3.4								
PFHxS	5.235	43000	7682.44		13C3-PFHxS - ISTD	5.234	46839	2.0335	ng/ml	✔	3	ALB 5/22/24
398.9 -> 99.0			3858.68	46.3								
PFMBA	3.255	219478	89035.22		13C5-PFPeA - ISTD	2.937	344701	4.6246	ng/ml			
PFMPA	2.225	33678	6363.92		13C5-PFPeA - ISTD	2.937	344701	4.4640	ng/ml			
PFNA	5.665	224651	3776.38		13C9-PFNA - ISTD	5.664	121015	2.3087	ng/ml			
463.0 -> 219.0			9091.22	21.8								
PFNS	6.752	31249	3660.02		13C8-PFOS - ISTD	6.281	34852	2.2025	ng/ml			
549.0 -> 98.8			3862.87	51.5								
PFOA	5.149	257882	3767.28		13C8-PFOA - ISTD	5.148	206271	2.4902	ng/ml			
413.0 -> 169.0			3228.01	24.0								
PFOS	6.282	43790	2767.35		13C8-PFOS - ISTD	6.281	34852	2.4175	ng/ml	✔	3	ALB 5/22/24
499.0 -> 99.0			3883.09	48.9								
PFOSA	7.744	51566	9370.20		13C8-PFOSA - ISTD	7.751	52245	2.2354	ng/ml			
497.9 -> 478.0			906.69	3.1								
PFPeA	2.937	319523	3122.91		13C5-PFPeA - ISTD	2.937	344701	4.5897	ng/ml			
263.0 -> 69.0			273.56	0.3								
PFPeS	4.576	53596	7087.75		13C3-PFHxS - ISTD	5.234	46839	2.2081	ng/ml			
349.0 -> 98.9			3429.08	46.1								
PFTeDA	7.820	121953	6891.10		13C2-PFTeDA - ISTD	7.819	66660	2.2737	ng/ml			
713.0 -> 168.9			6114.62	7.7								
PFTrDA	7.423	146968	8420.95		13C2-PFDoA - ISTD	7.011	92109	2.2596	ng/ml			
663.0 -> 168.9			9119.76	12.5								
PFUnA	6.587	174552	3717.56		13C7-PFUnA - ISTD	6.586	95055	2.2849	ng/ml			
563.0 -> 269.1			3056.81	17.2								
TDCA	6.290	34326	2931.93					-	ng/ml			
499.0 -> 99.0			3894.40	***55.0**								
13C2-8:2FTS	5.934	20424	5785.92		18O2-PFHxS	5.233	54521	5.6991	ng/ml			
529.0 -> 509.0			7459.07	314.8								
13C2-4:2FTS	3.614	36744	3572.72		18O2-PFHxS	5.233	54521	5.6316	ng/ml			
329.0 -> 309.0			9635.19	271.2								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
13C2-6:2FTS	4.941	24726	4223.82		18O2-PFHxS	5.233	54521	5.6081	ng/ml			
429.0 -> 409.0			8761.50	368.4								
13C5-PFHxA	3.836	188647	32660.32		13C2-PFHxA	3.837	208024	2.2007	ng/ml			
318.0 -> 120.0			1740.16	1.9								
13C6-PFDA	6.140	116769	5432.56		13C2-PFDA	6.140	131525	1.1252	ng/ml			
13C7-PFUnA	6.586	95055	13287.94		13C2-PFDA	6.140	131525	1.1314	ng/ml			
13C8-PFOA	5.148	206271	34784.09		13C4-PFOA	5.157	35062	2.1459	ng/ml			
13C8-PFOS	6.281	34852	5120.92		13C4-PFOS	6.290	45526	2.1294	ng/ml			
507.0 -> 99.0			4215.69	52.3								
13C8-PFOSA	7.751	52245	464150.44		13C4-PFOS	6.290	45526	1.8149	ng/ml			
13C9-PFNA	5.664	121015	6196.74		13C5-PFNA	5.664	165095	1.0749	ng/ml			
13C5-PFPeA	2.937	344701	10531.00		13C2-PFHxA	3.837	208024	4.4868	ng/ml			
13C2-PFDoA	7.011	92109	10066.30		13C2-PFDA	6.140	131525	1.0622	ng/ml			
13C4-PFHpA	4.549	232596	15819.34		13C2-PFHxA	3.837	208024	2.4257	ng/ml			
13C4-PFBA	1.707	542409	100525.13		13C3-PFBA	1.710	287253	8.6971	ng/ml			
13C3-PFHxS	5.234	46839	7730.00		18O2-PFHxS	5.233	54521	2.1037	ng/ml			
402.0 -> 99.0			4971.91	50.7								
13C3-PFBS	3.757	68482	9931.67		18O2-PFHxS	5.233	54521	2.3240	ng/ml			
301.9 -> 98.9			6845.42	33.8								
13C3-HFPODA	4.111	213187	18705.45		13C2-PFHxA	3.837	208024	8.8910	ng/ml			
287.0 -> 185.0			7461.63	45.7								
13C2-PFTeDA	7.819	66660	13389.45		13C2-PFDA	6.140	131525	0.8928	ng/ml			
D9-NEtFOSE	9.394	137659	30610.96		13C4-PFOS	6.290	45526	11.4998	ng/ml			
D3-NMeFOSA	9.193	8475	2728.53		13C4-PFOS	6.290	45526	0.9179	ng/ml			
D3-NMeFOSAA	6.203	177668	19543.01		13C4-PFOS	6.290	45526	6.0242	ng/ml			
D5-NEtFOSA	9.546	7650	3174.91		13C4-PFOS	6.290	45526	0.7943	ng/ml			
D5-NEtFOSAA	6.414	77031	10610.81		13C4-PFOS	6.290	45526	5.1617	ng/ml			
D7-NMeFOSE	9.057	143992	29296.42		13C4-PFOS	6.290	45526	12.8713	ng/ml			

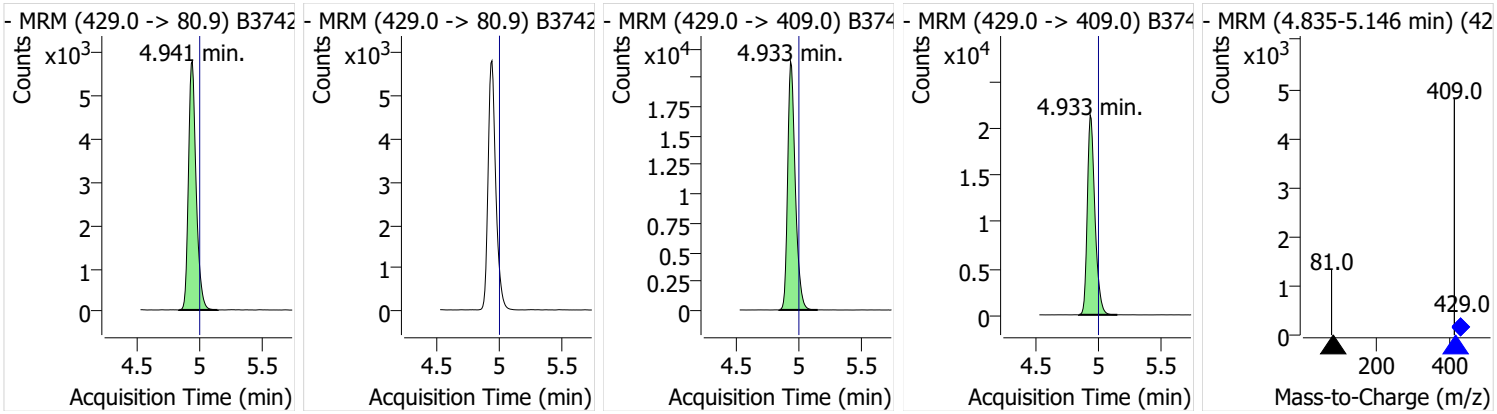
11Cl-PF3OUdS



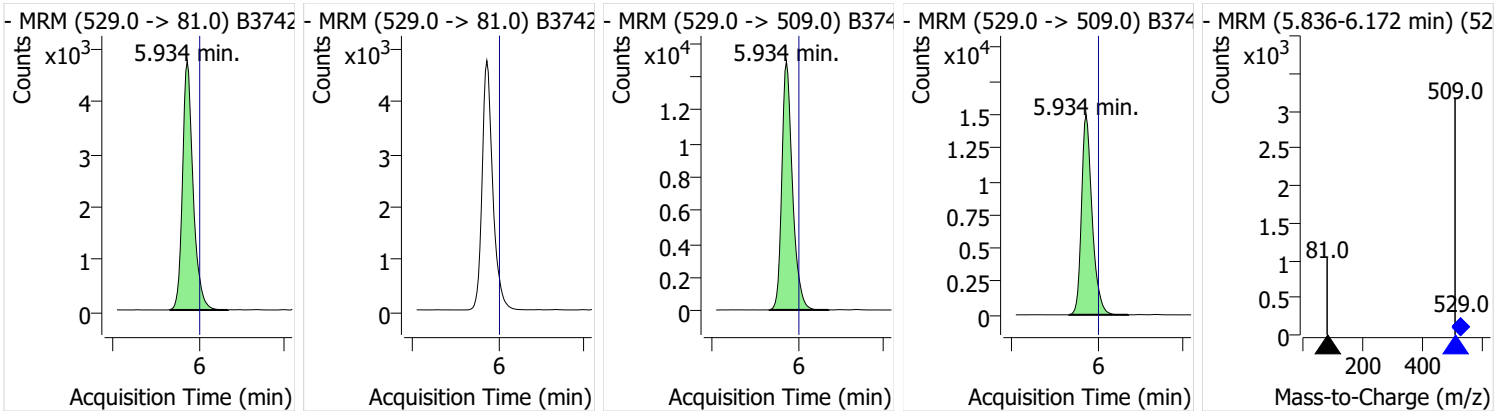
13C2-4:2FTS - ISTD



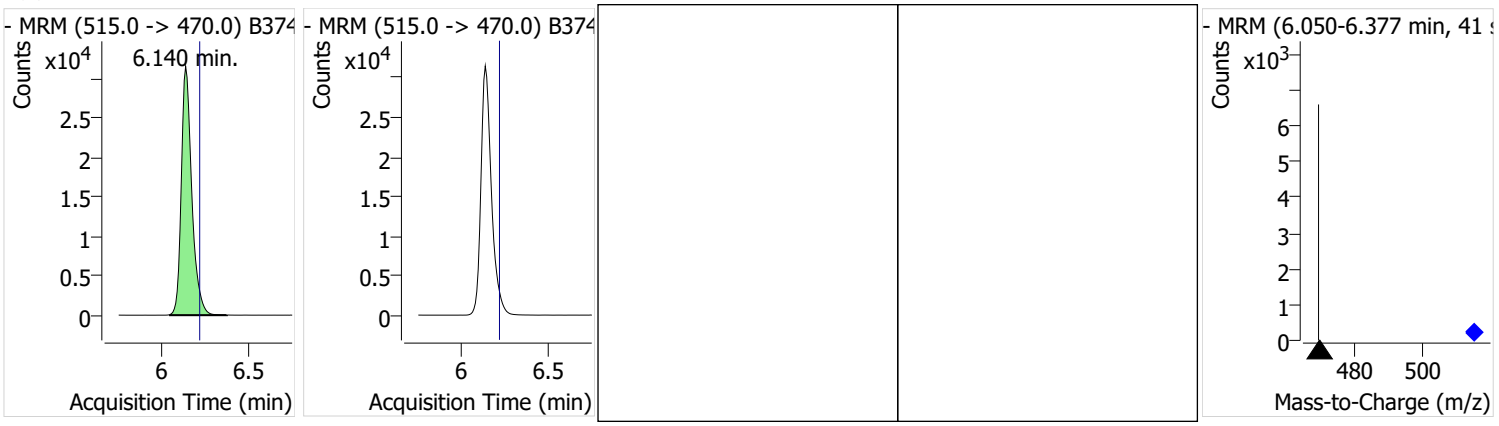
13C2-6:2FTS - ISTD



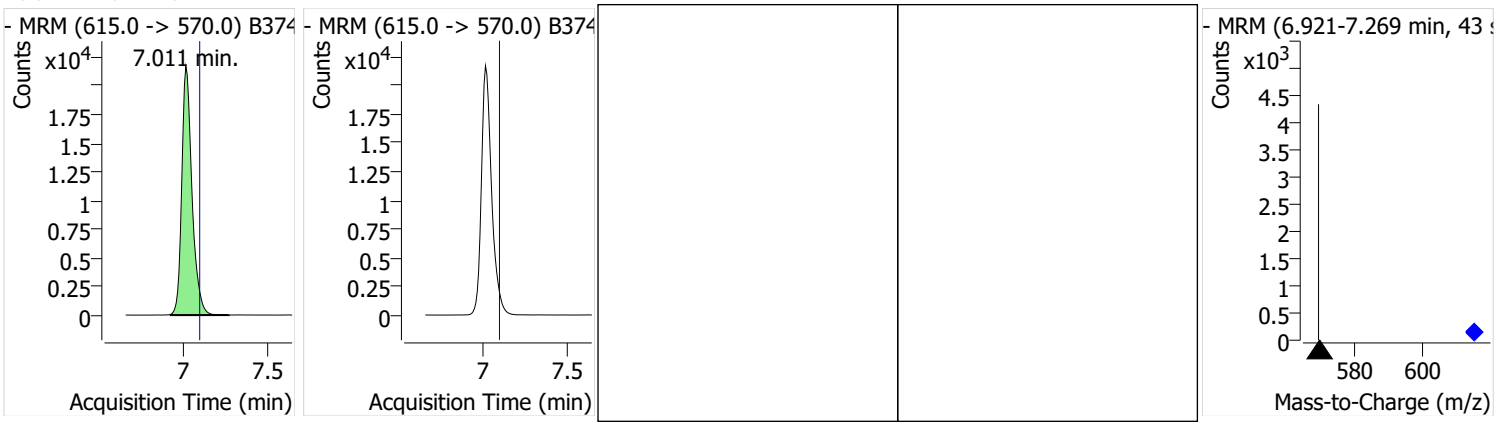
13C2-8:2FTS - ISTD



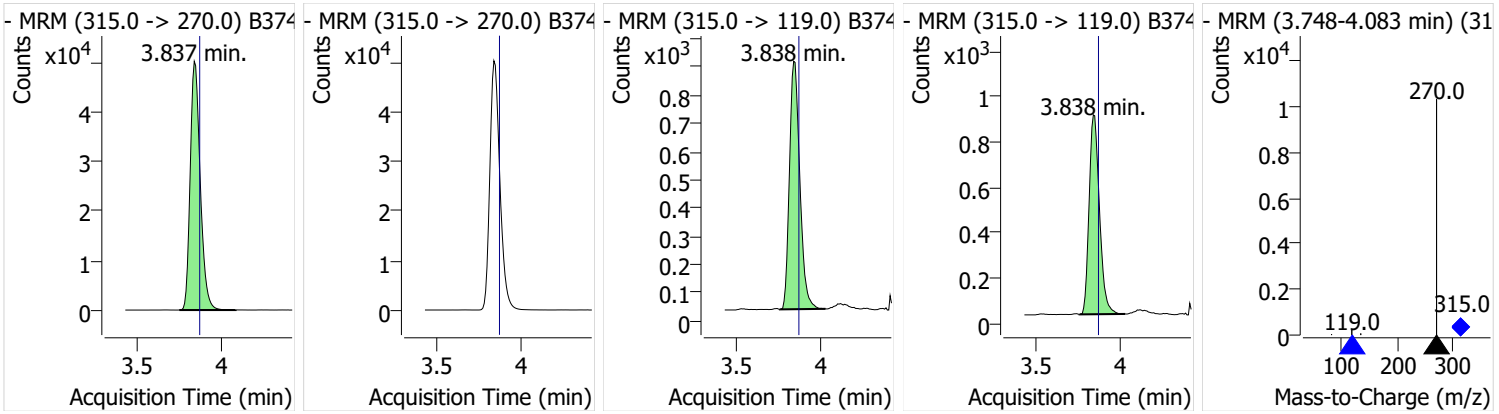
13C2-PFDA



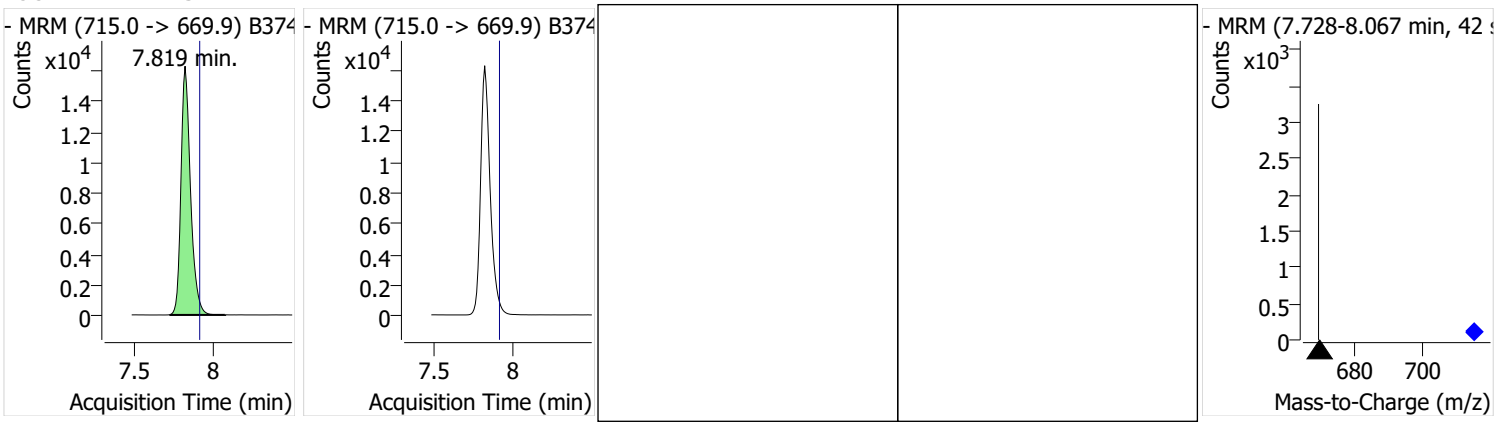
13C2-PFDoA - ISTD



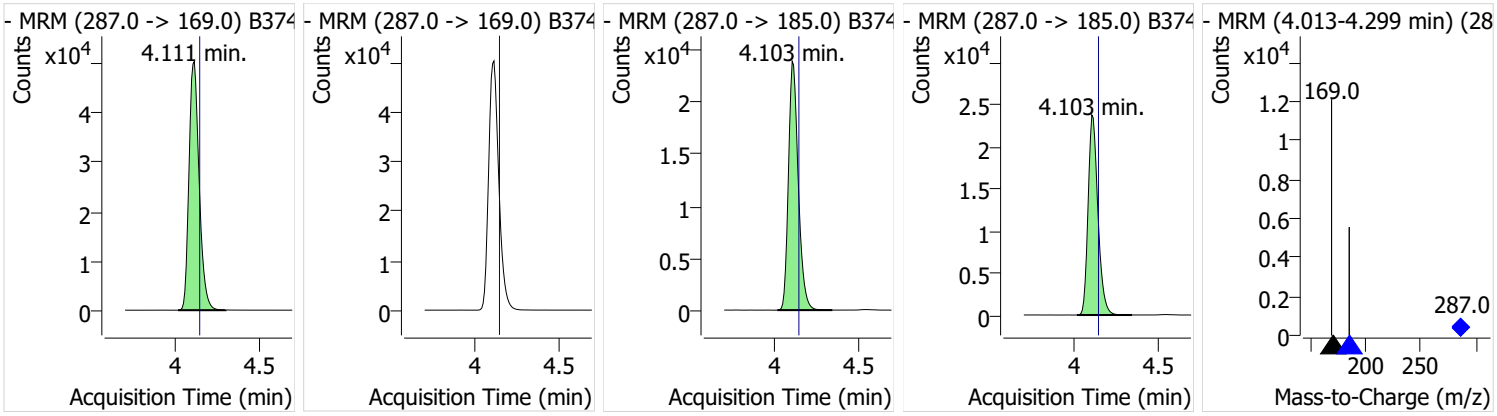
13C2-PFHxA



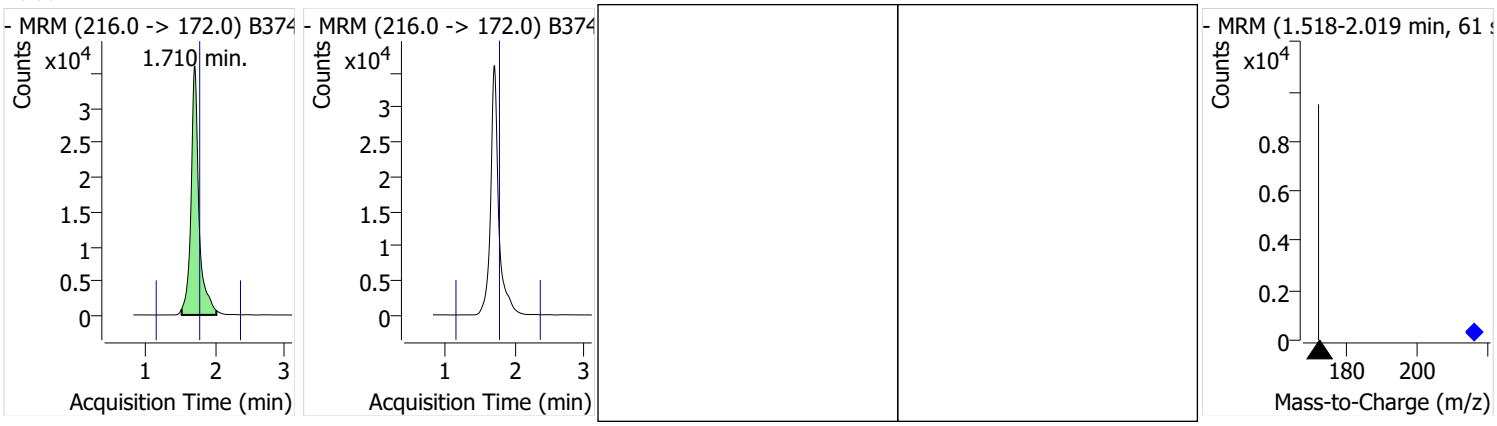
13C2-PFTeDA - ISTD



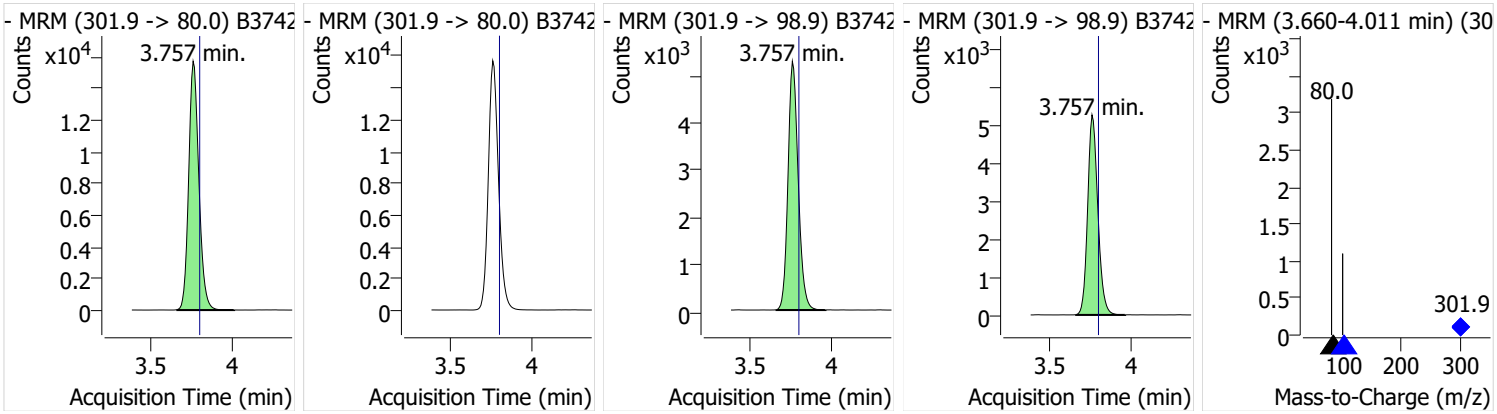
13C3-HFPODA - ISTD



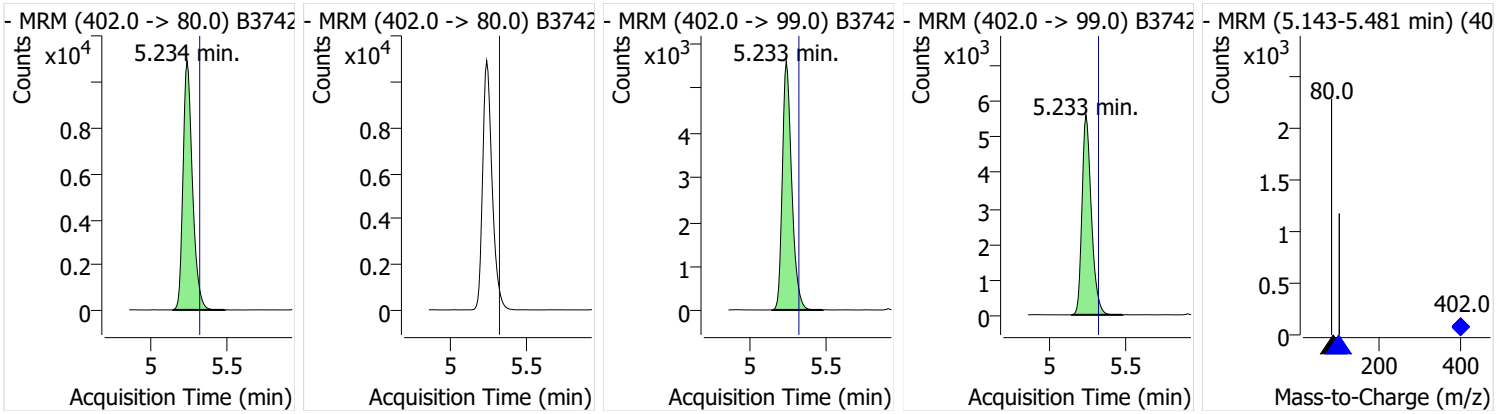
13C3-PFBA



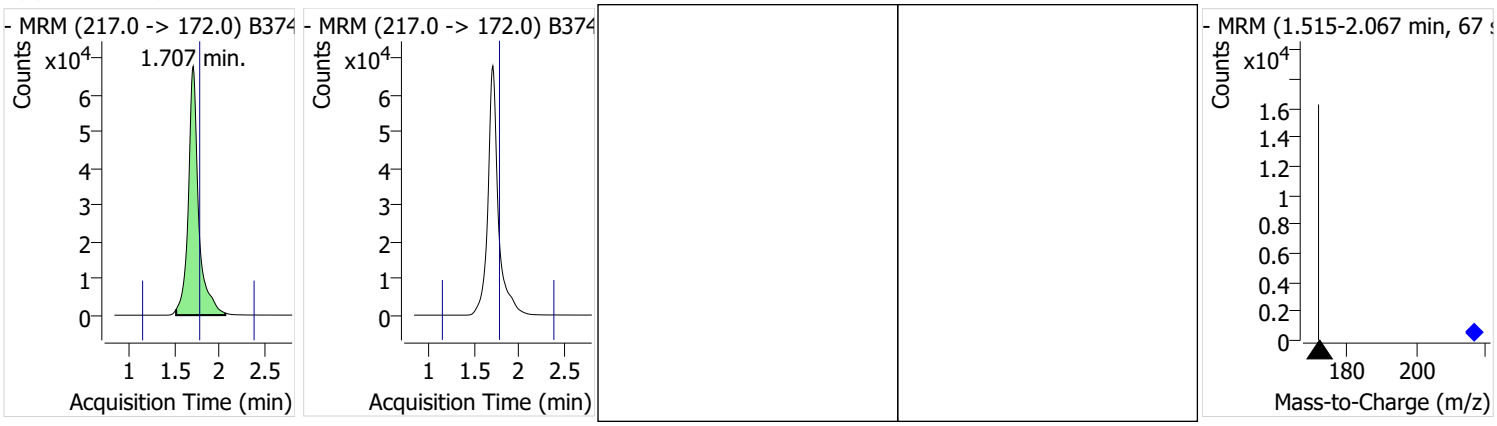
13C3-PFBS - ISTD



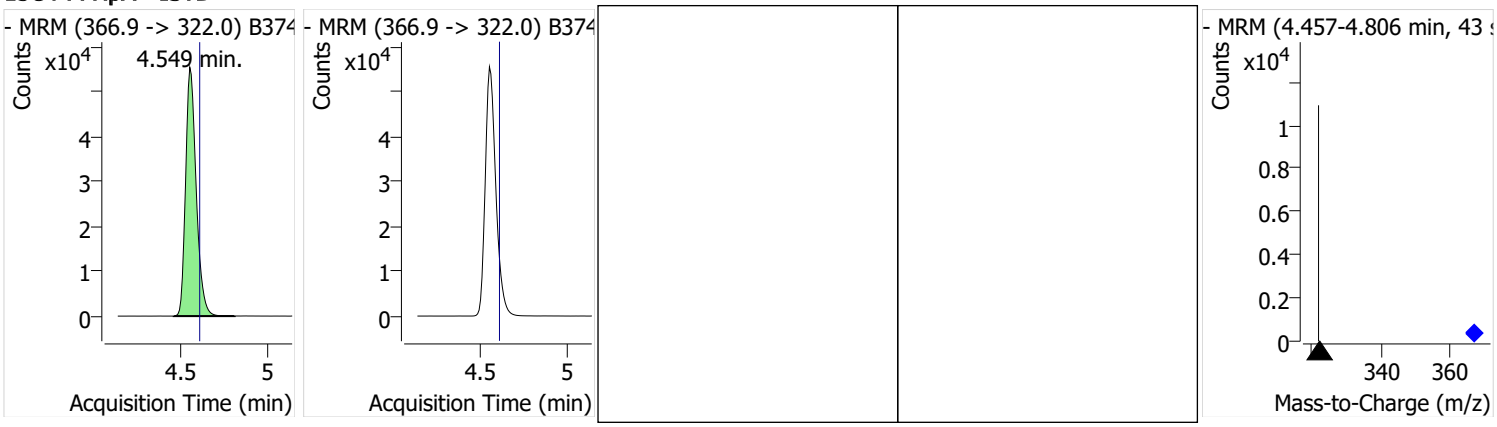
13C3-PFHxS - ISTD



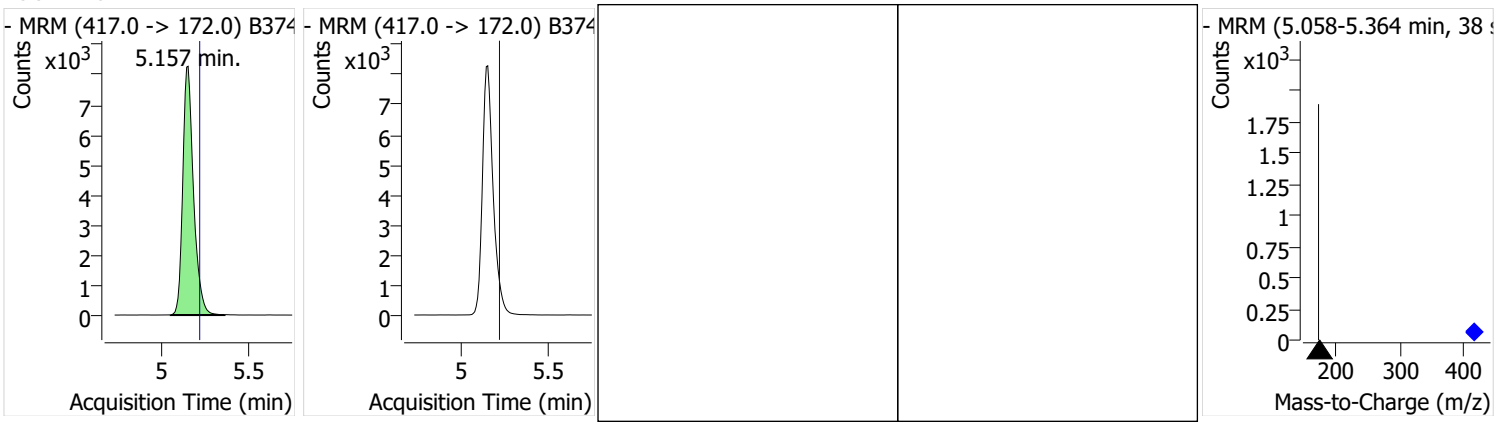
13C4-PFBA - ISTD



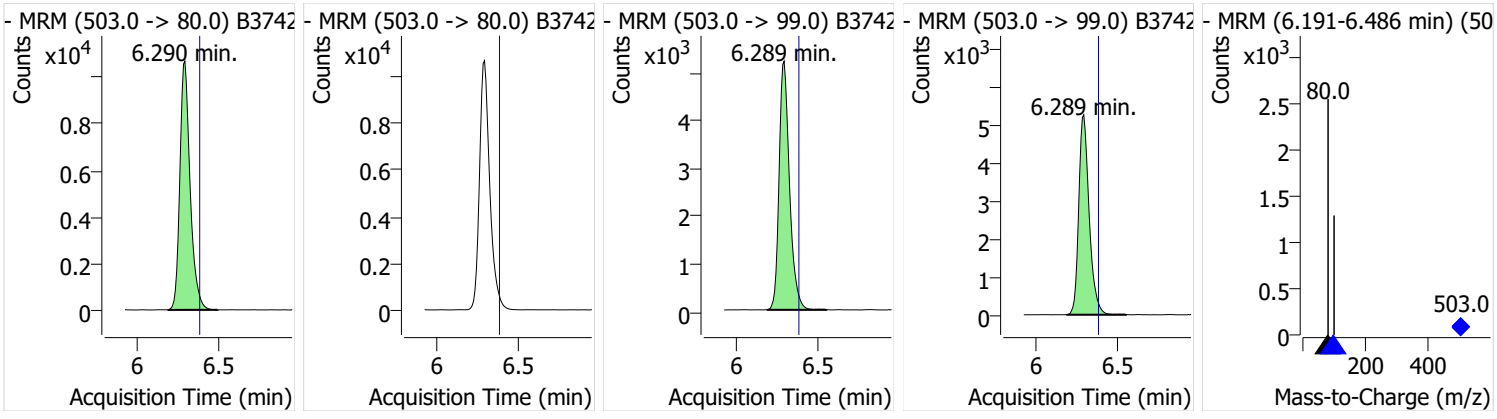
13C4-PFHpA - ISTD



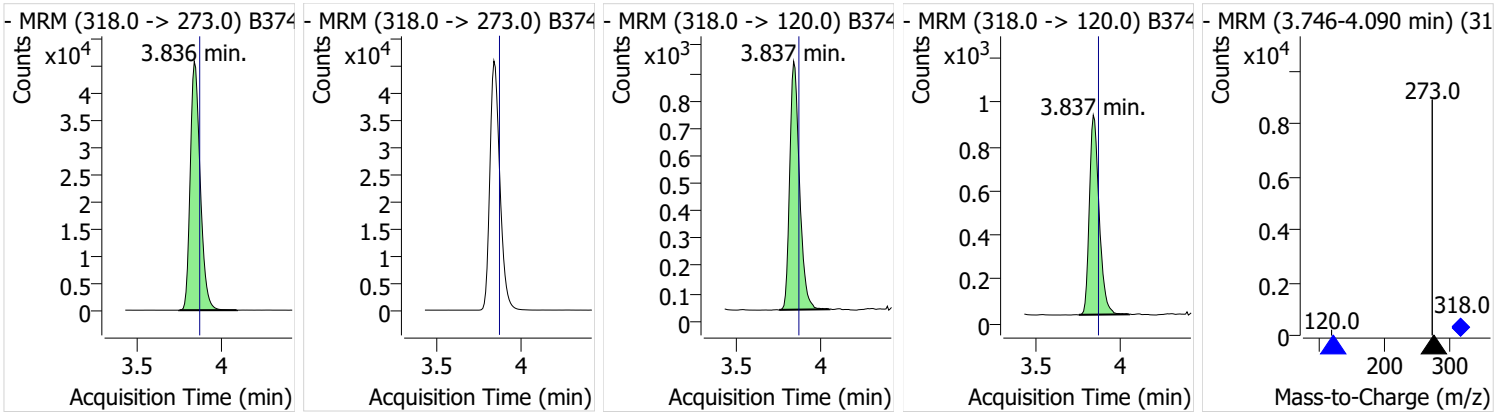
13C4-PFOA



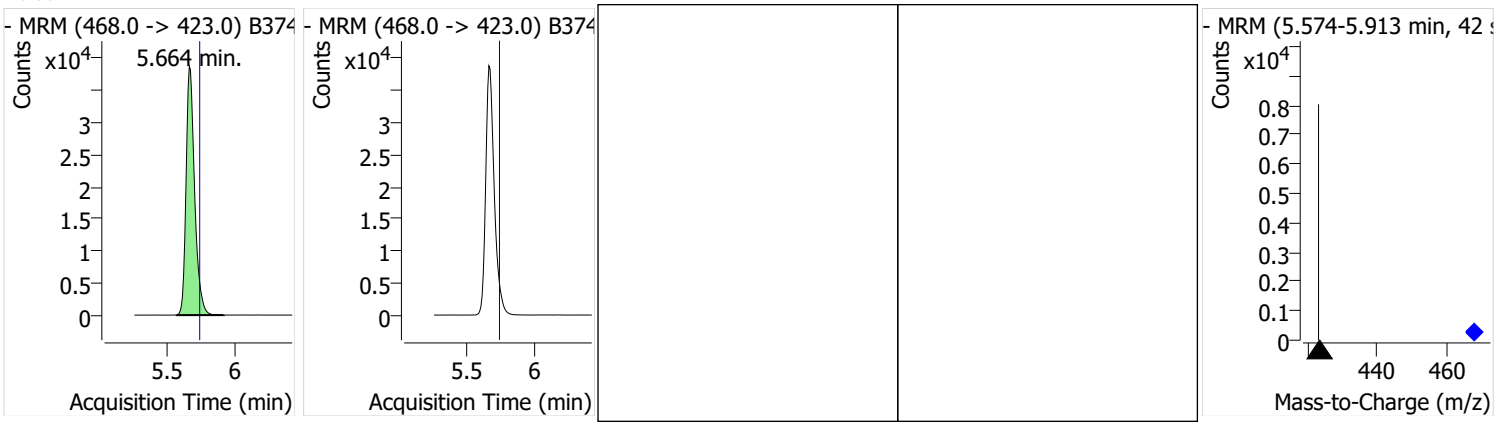
13C4-PFOS



13C5-PFHxA - ISTD

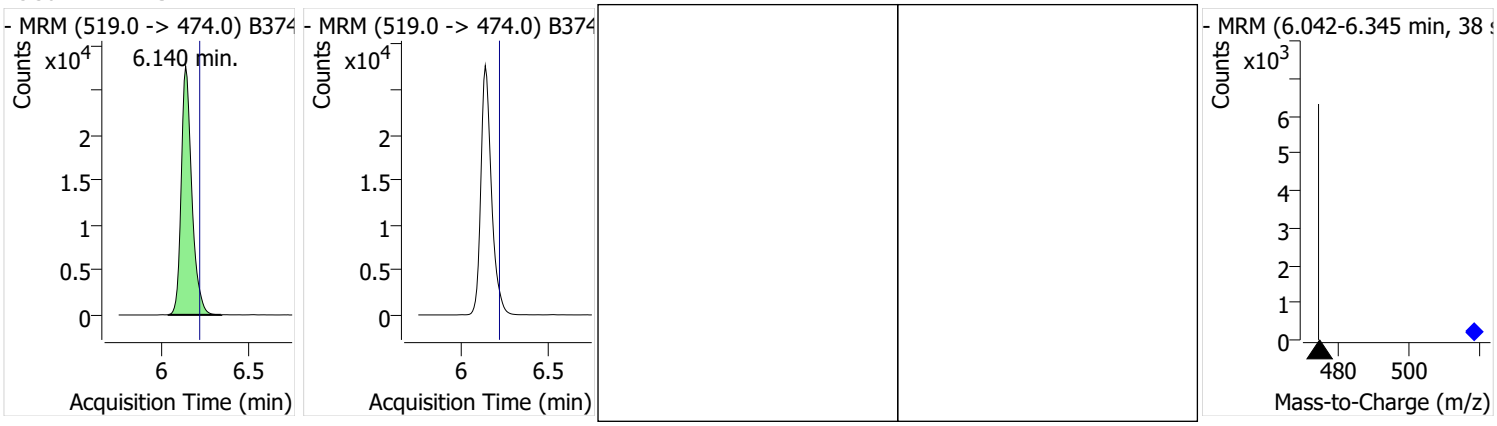


13C5-PFNA

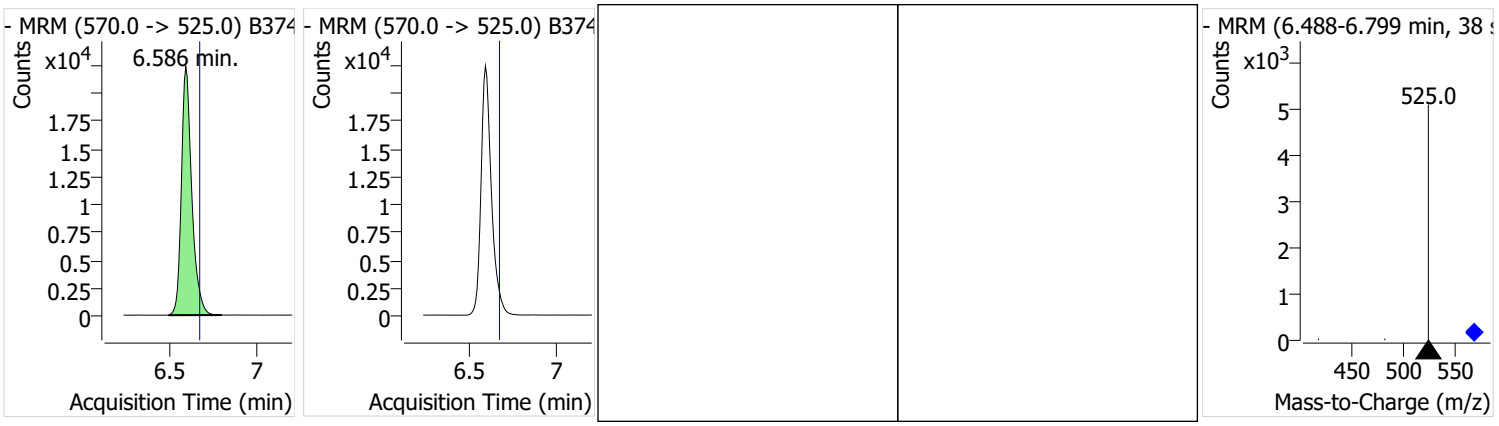


13C5-PFPeA - ISTD

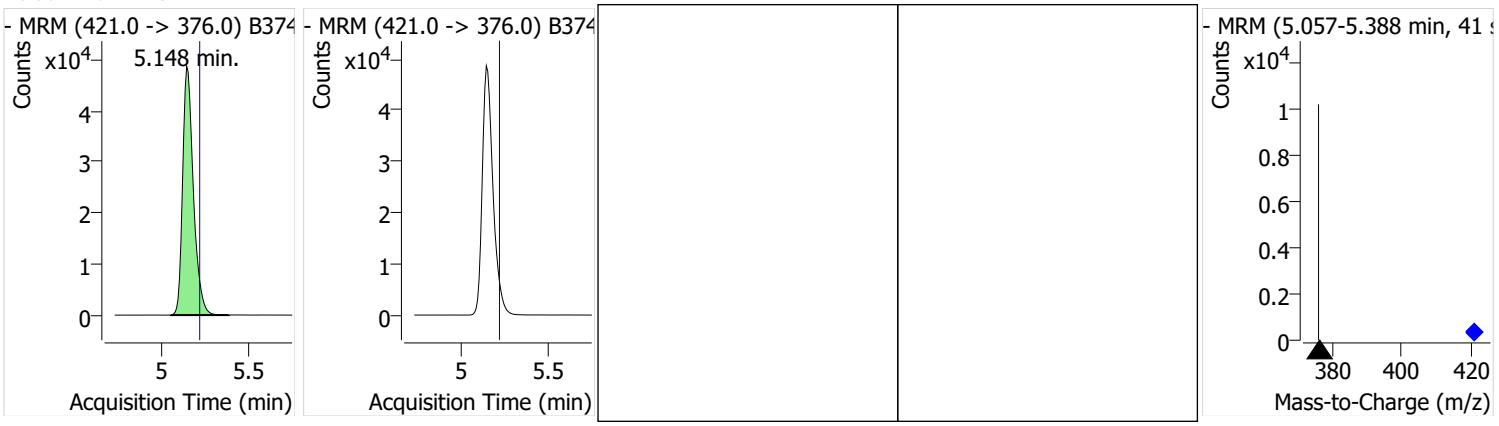
13C6-PFDA - ISTD



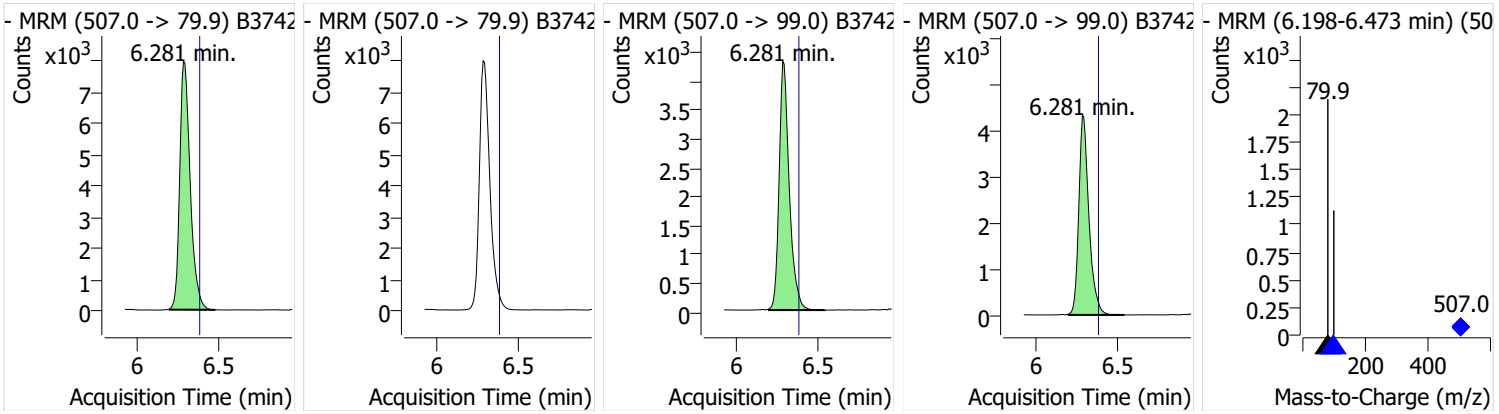
13C7-PFUnA - ISTD



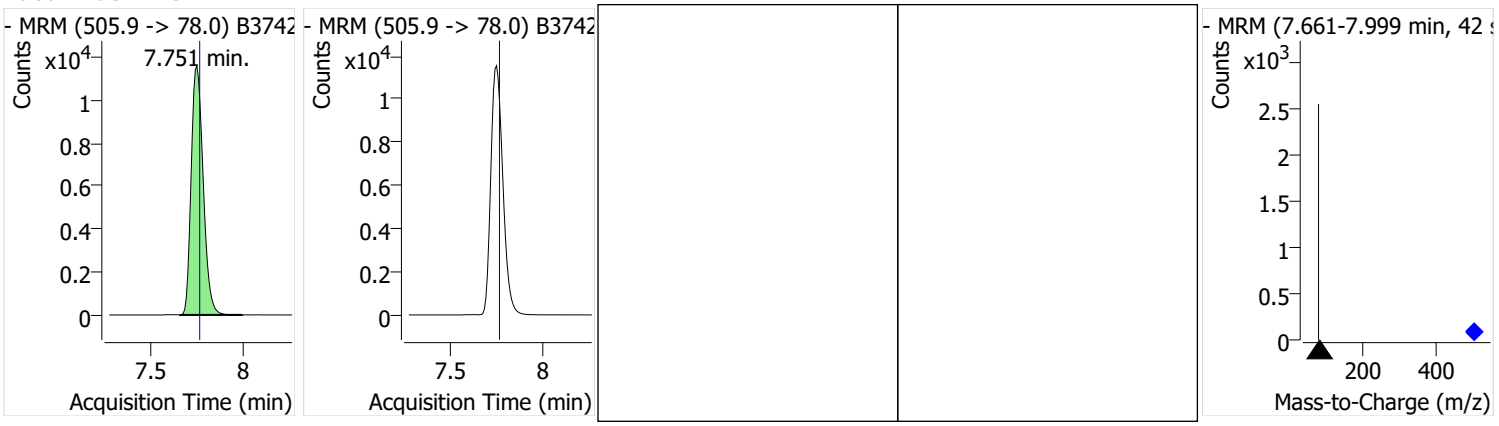
13C8-PFOA - ISTD



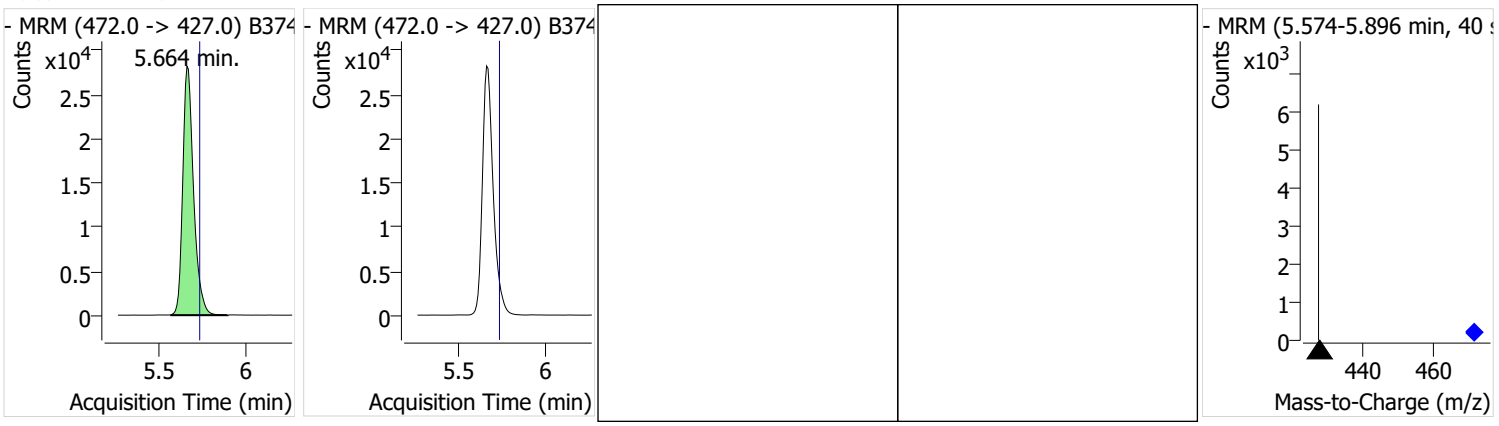
13C8-PFOS - ISTD



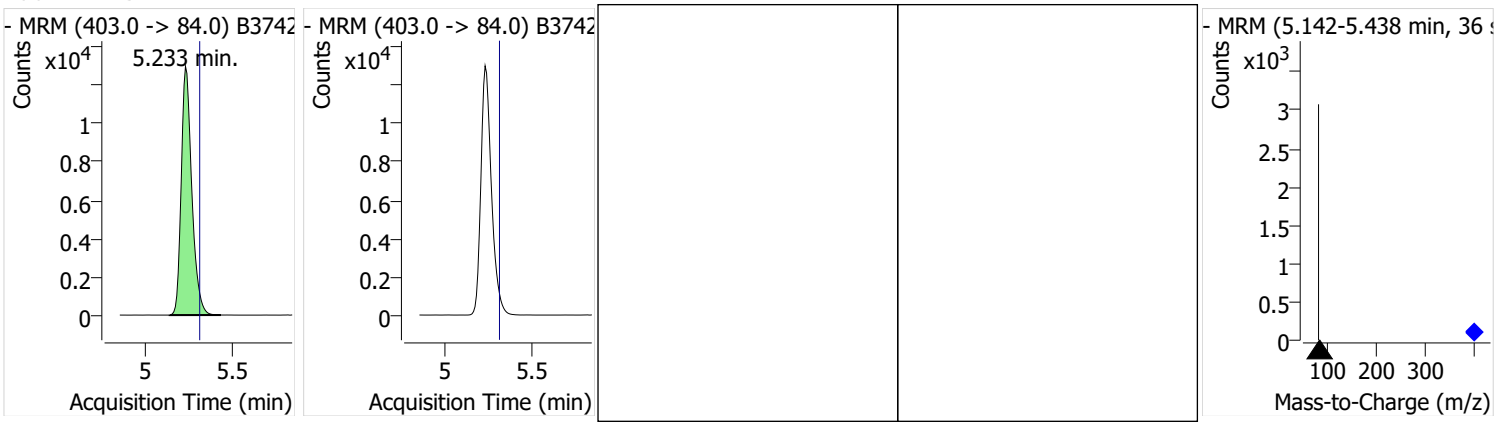
13C8-PFOSA - ISTD



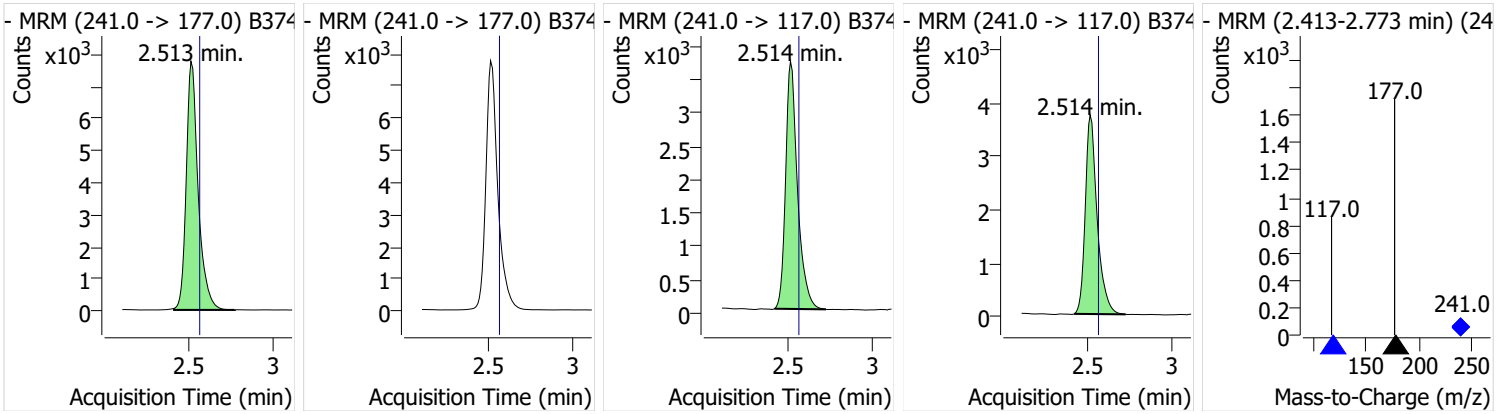
13C9-PFNA - ISTD



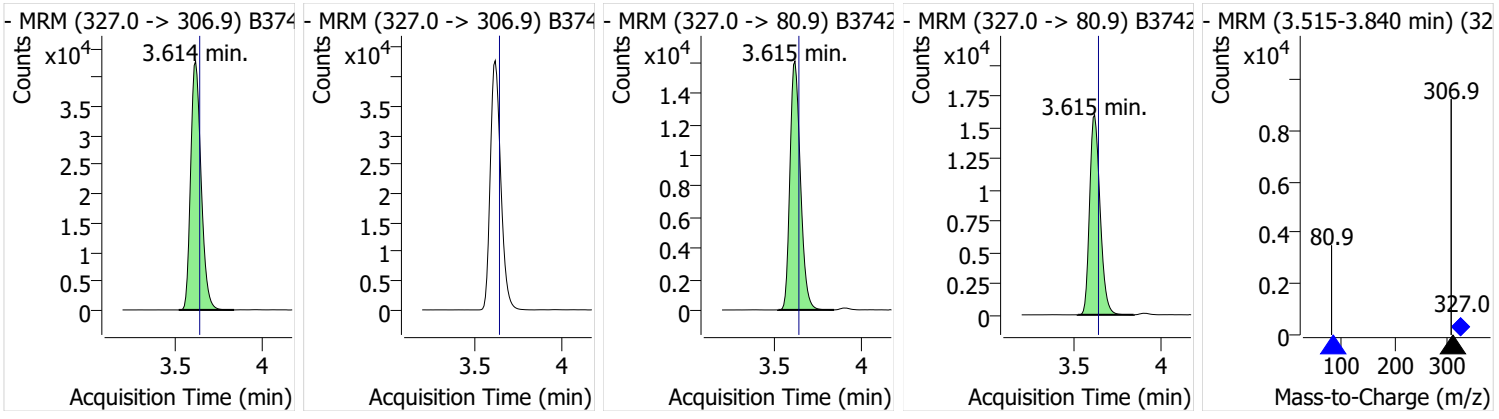
18O2-PFHxS



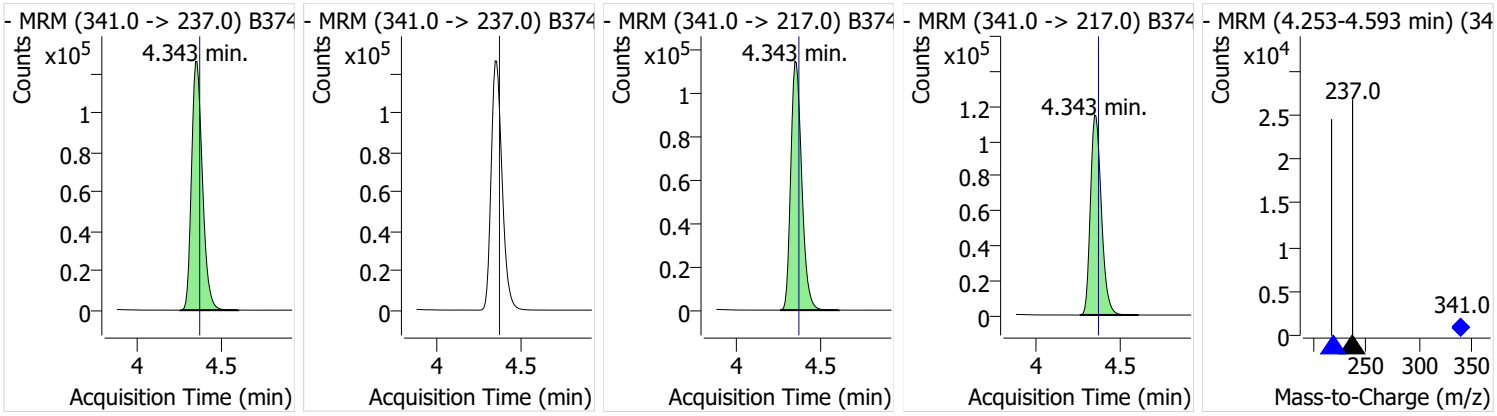
3:3FTCA



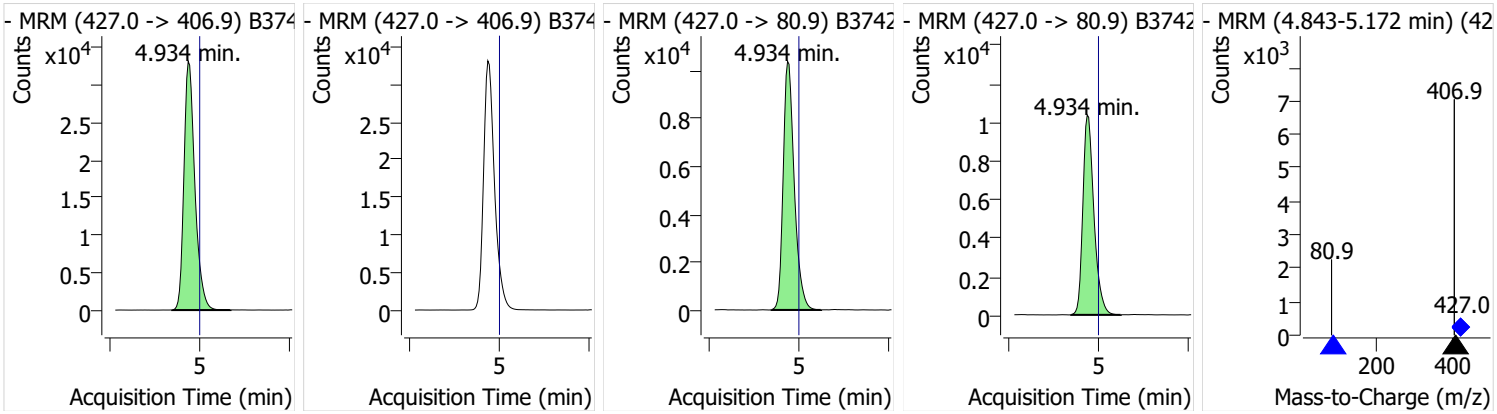
4:2FTS



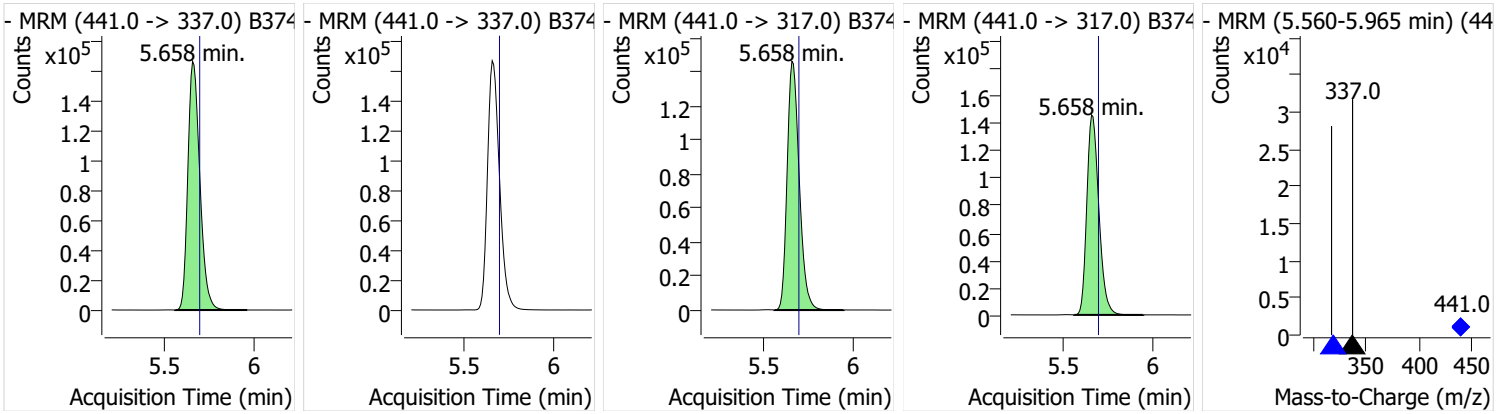
5:3FTCA



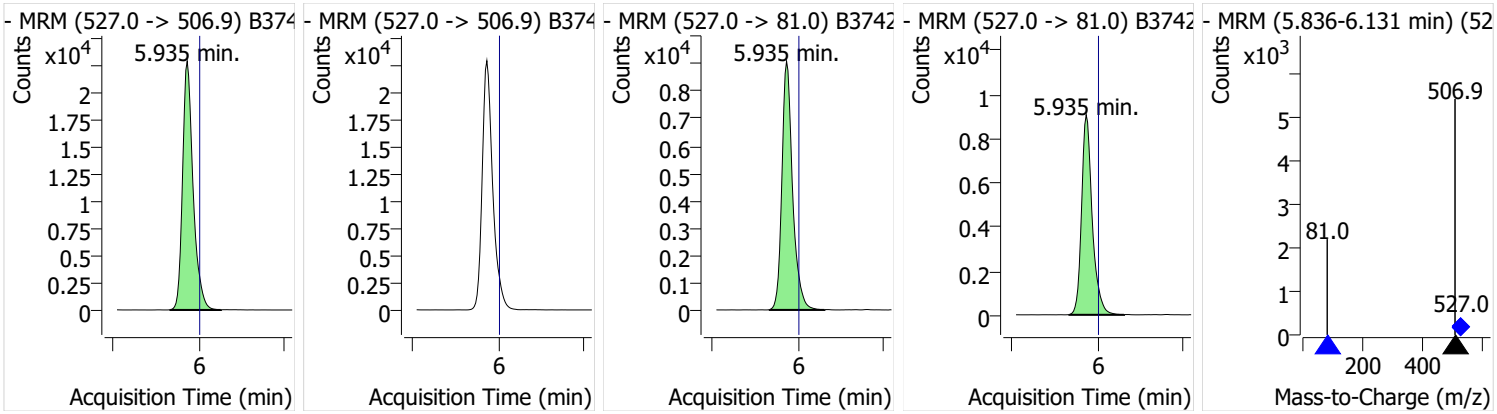
6:2FTS



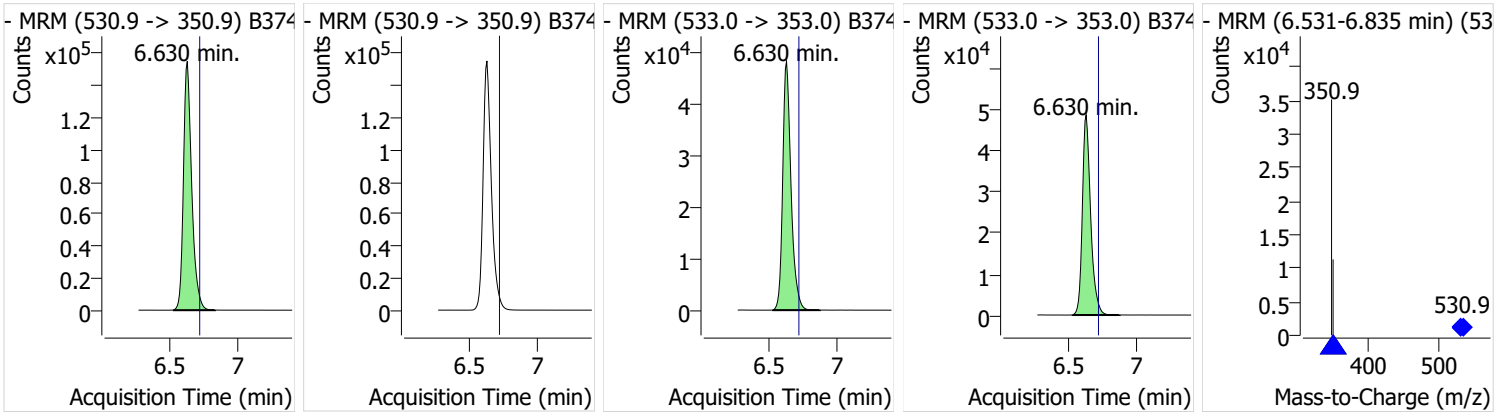
7:3FTCA



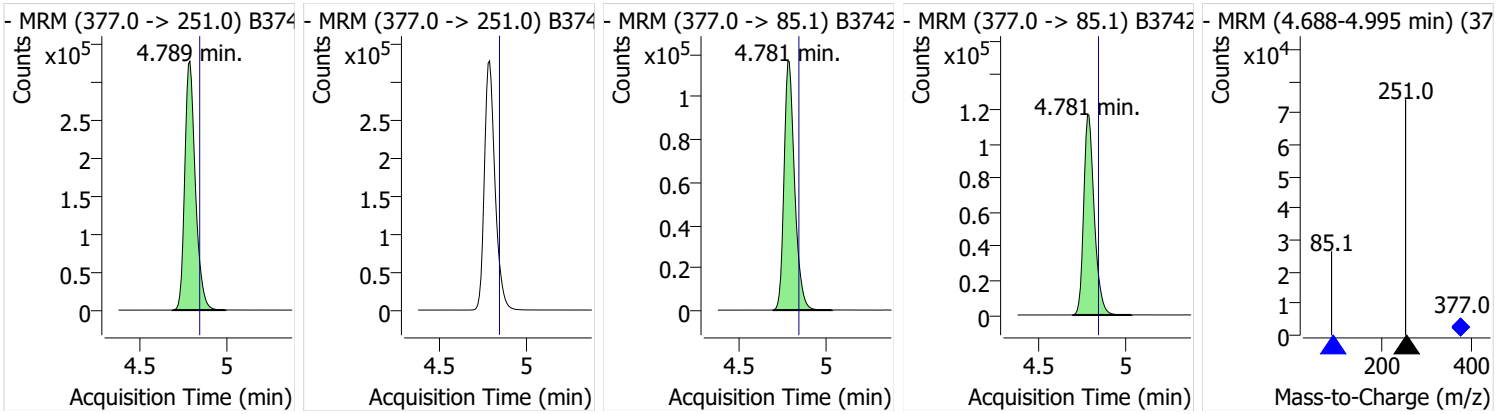
8:2FTS



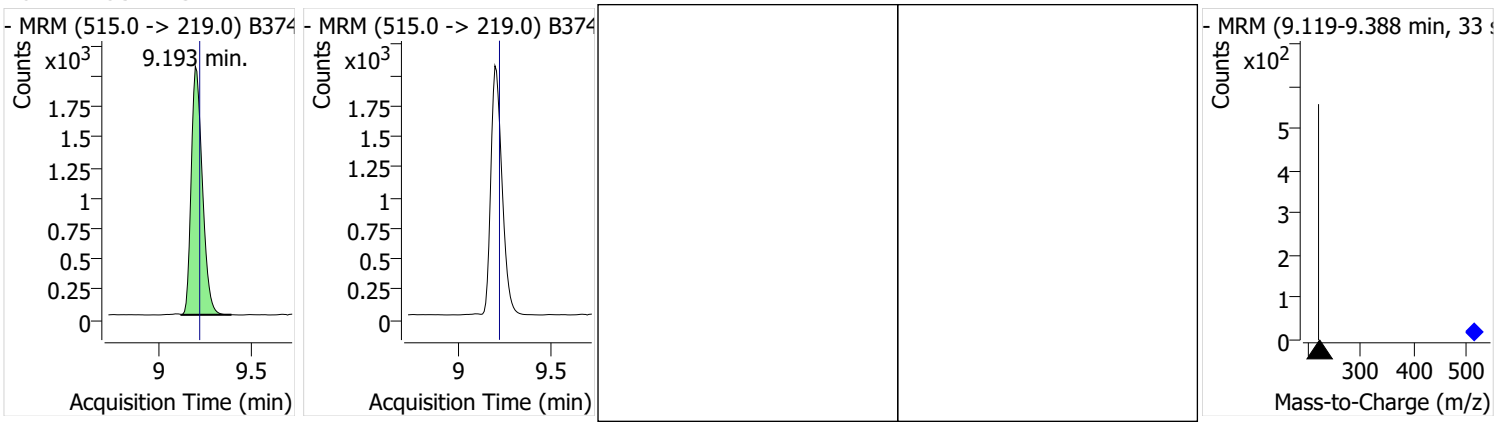
9Cl-PF3ONS



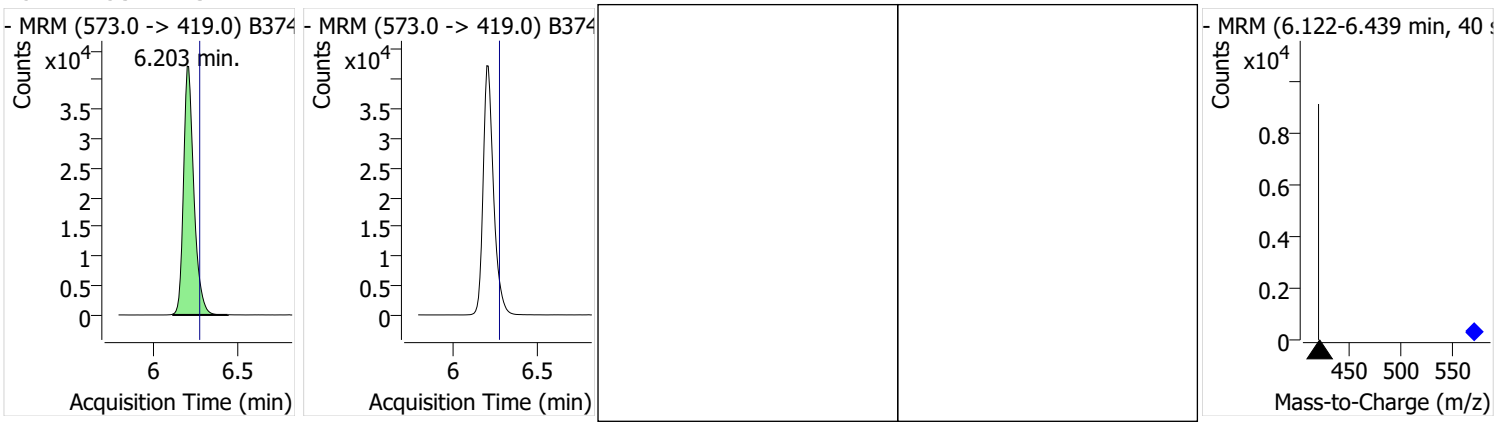
ADONA



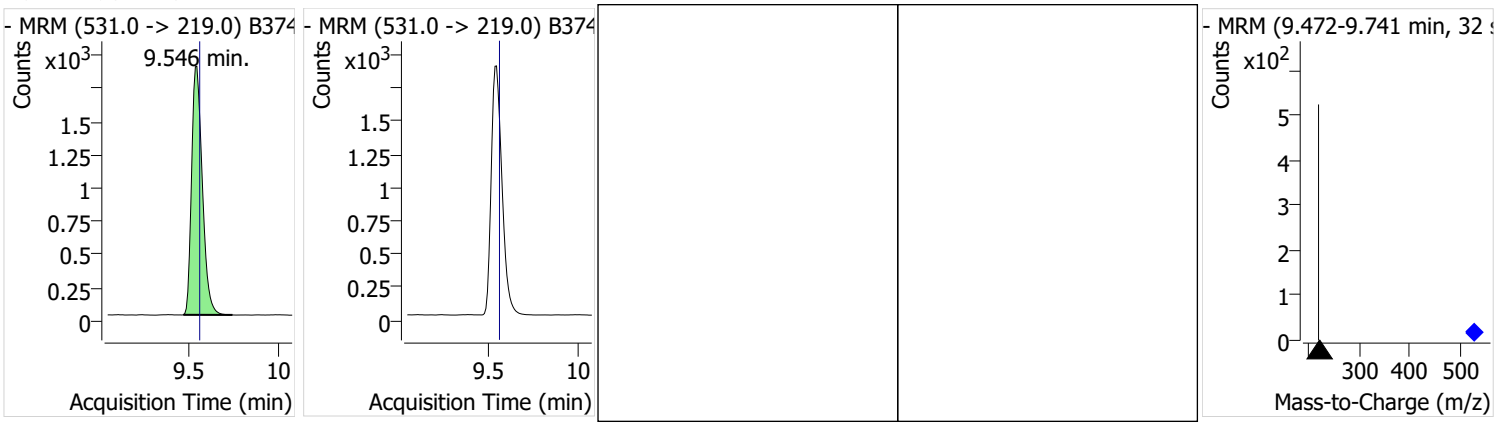
D3-NMeFOSA - ISTD



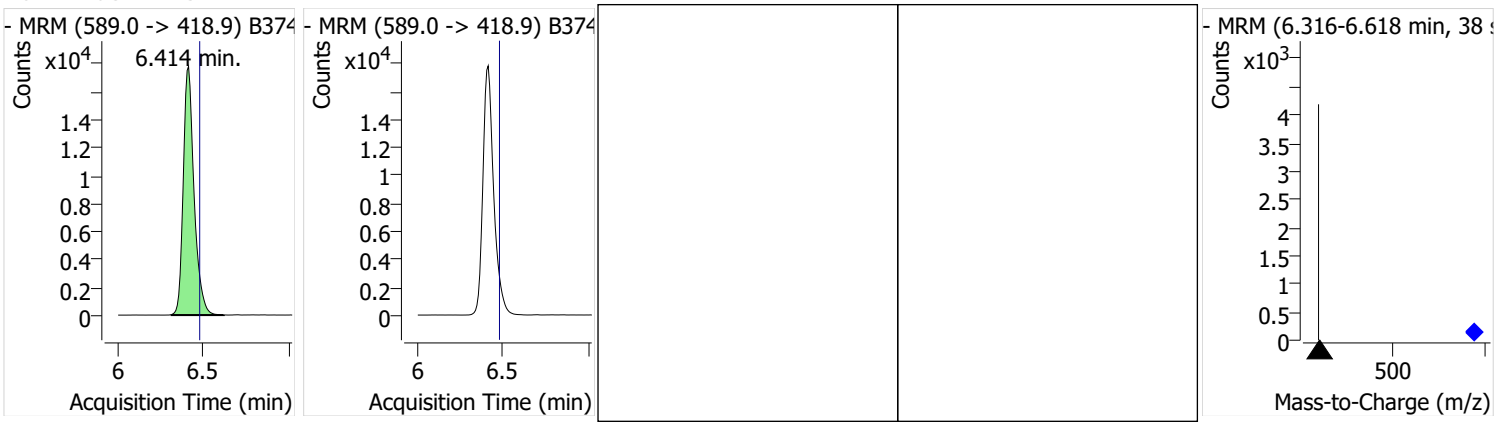
D3-NMeFOSAA - ISTD



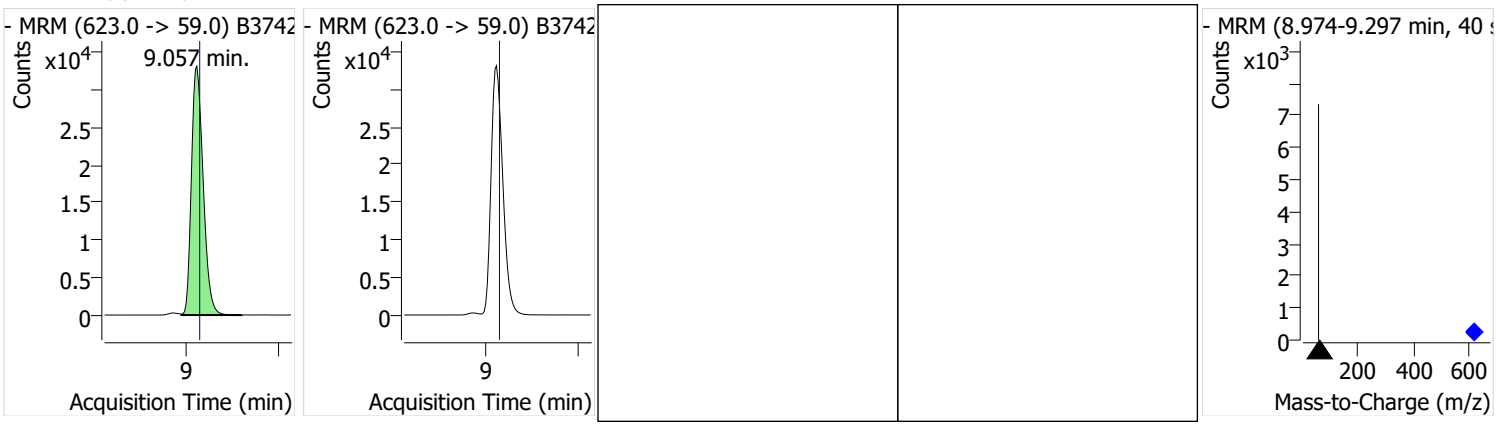
D5-NEtFOSA - ISTD



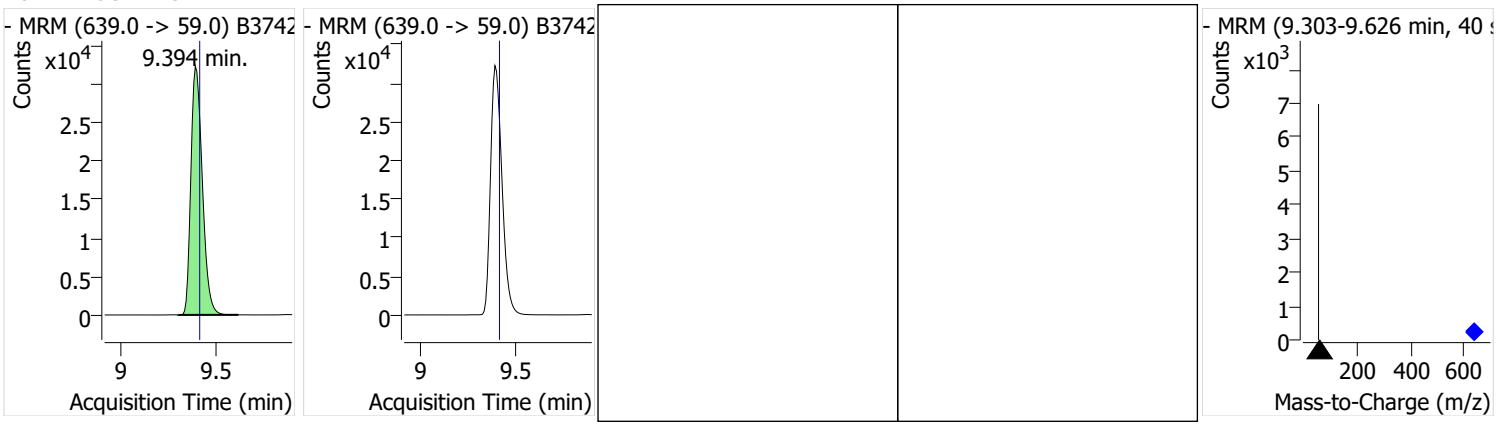
D5-NEtFOSAA - ISTD



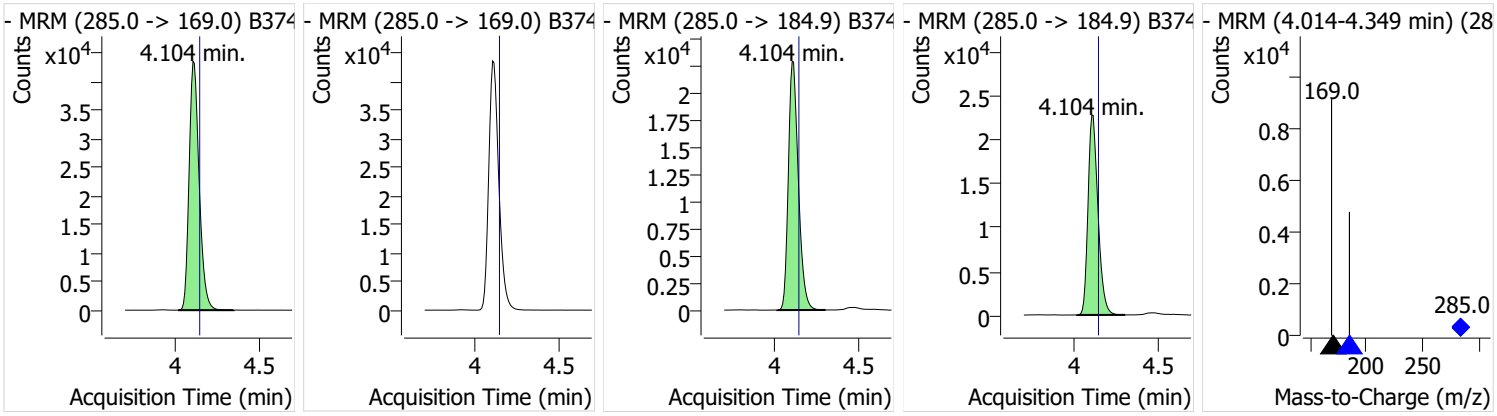
D7-NMeFOSE - ISTD



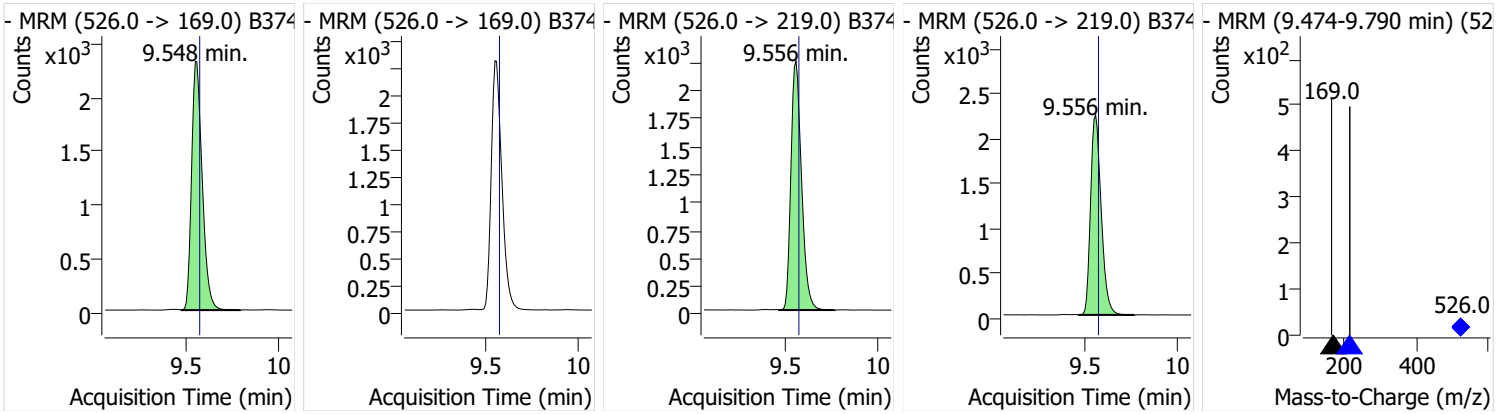
D9-NEtFOSE - ISTD



HFPO-DA



NEtFOSA



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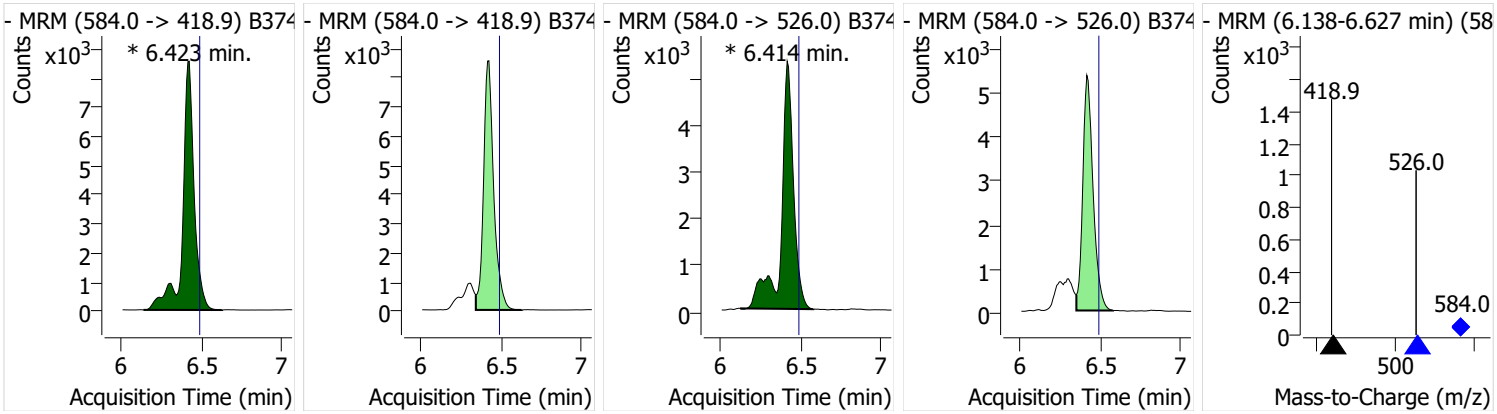

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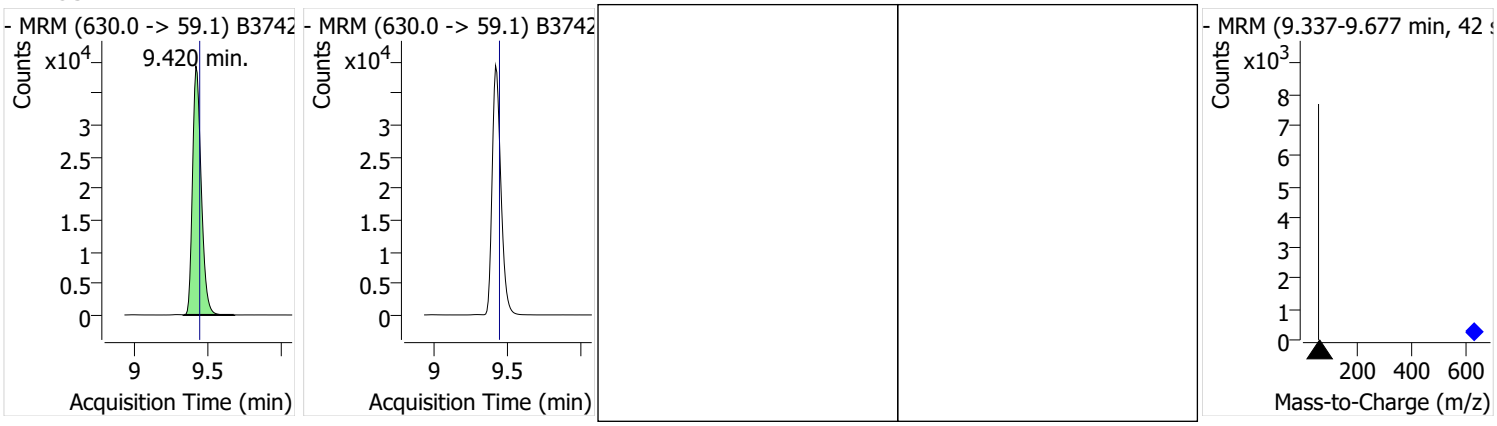
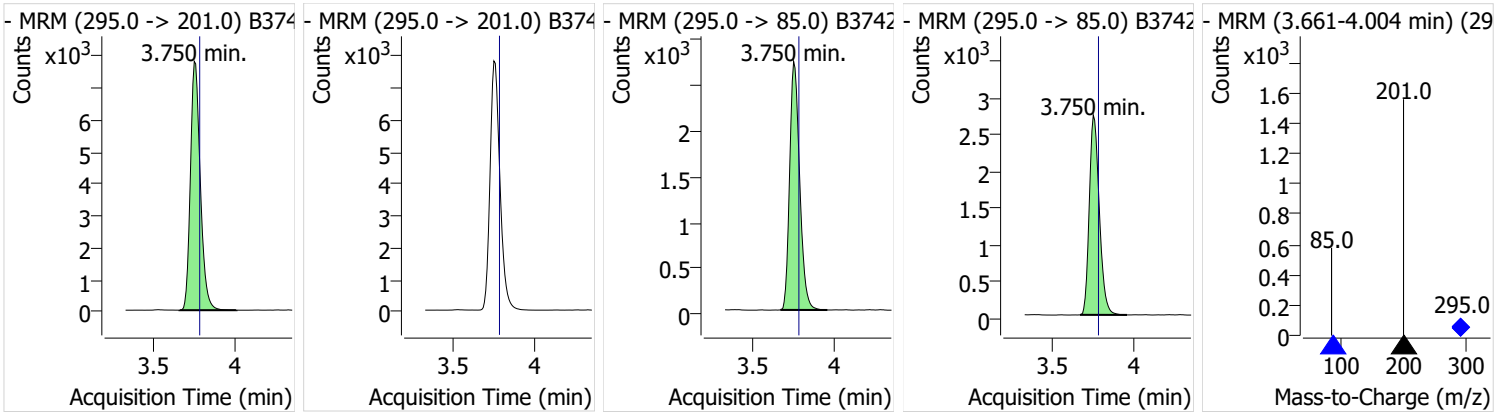


NFDHA



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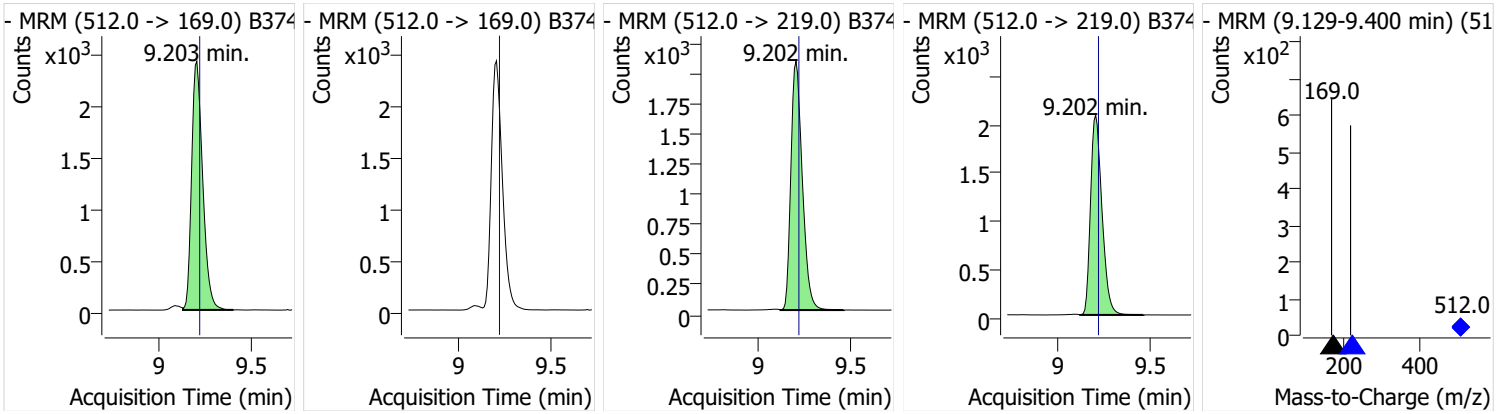
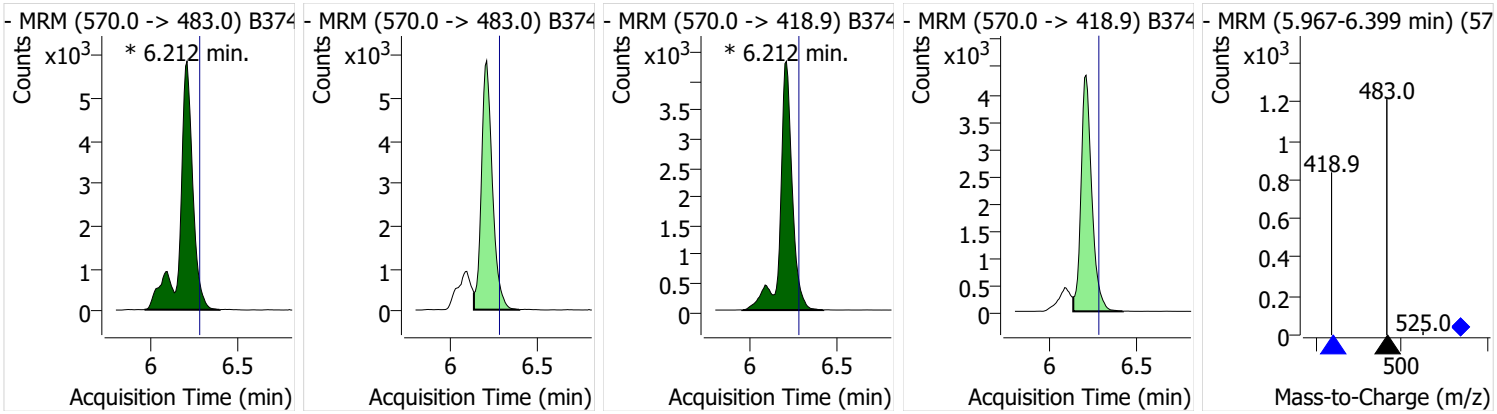


NMeFOSAA



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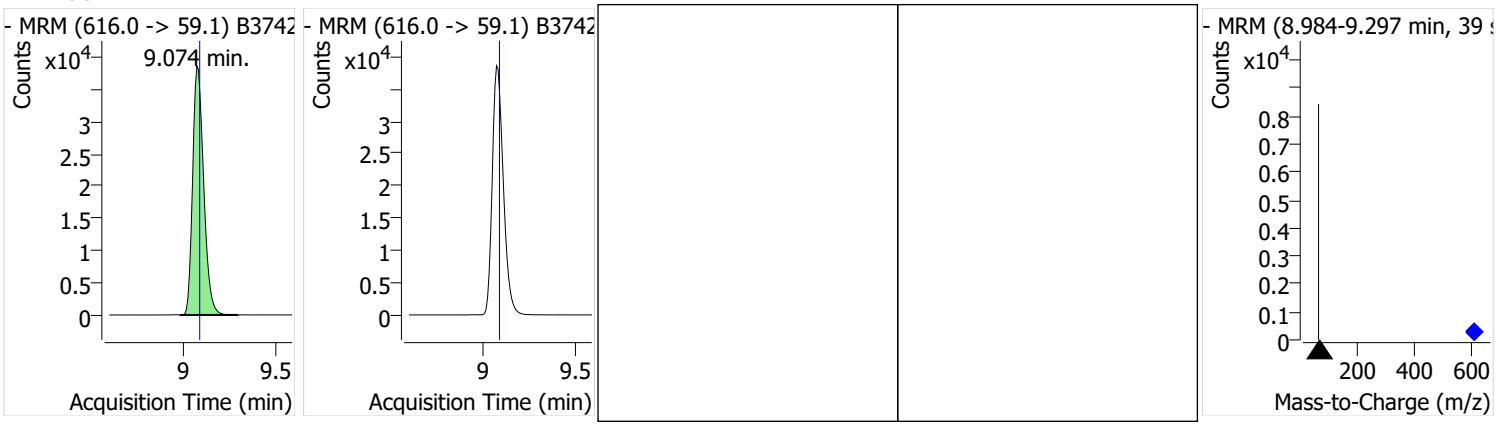
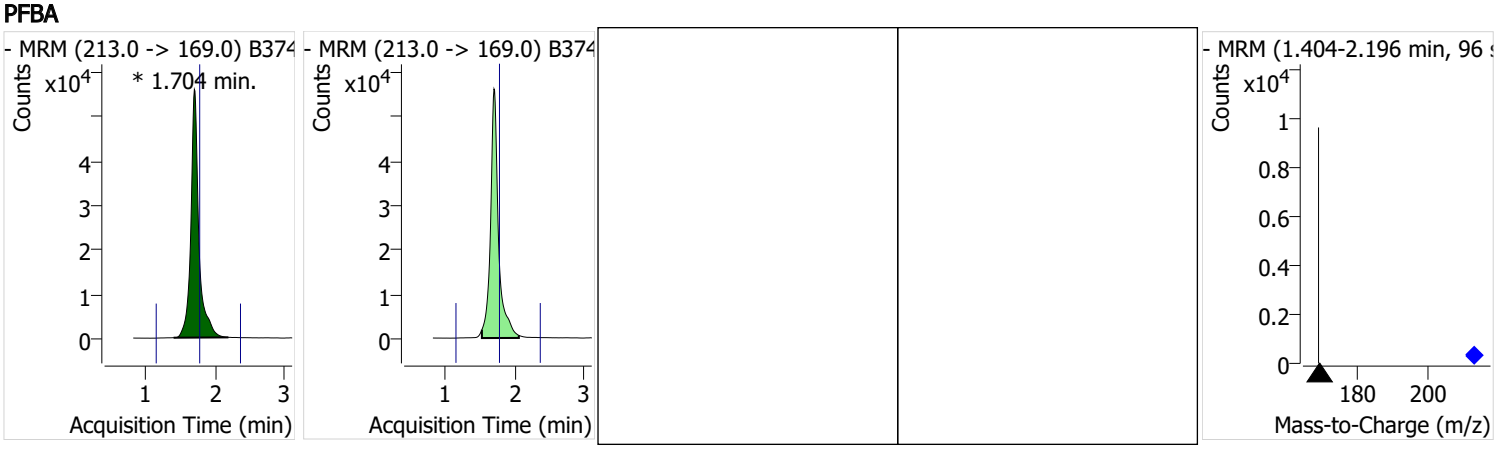


PFBA



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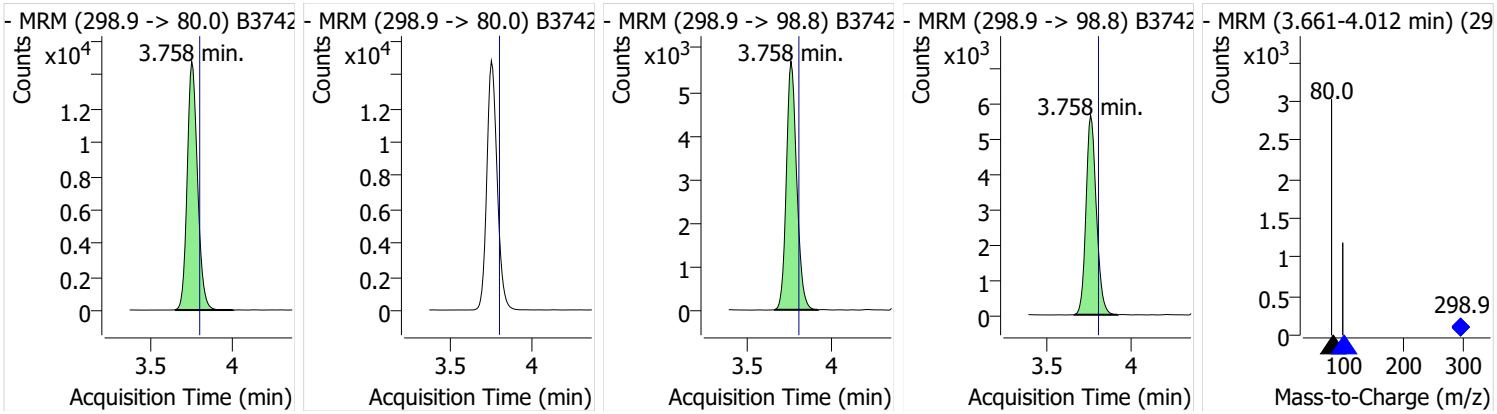

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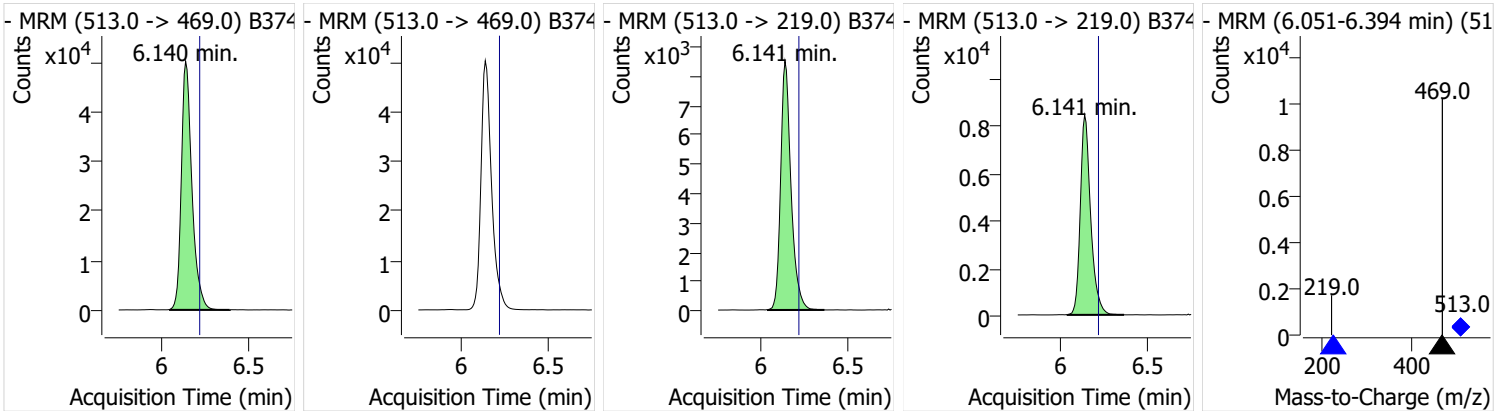

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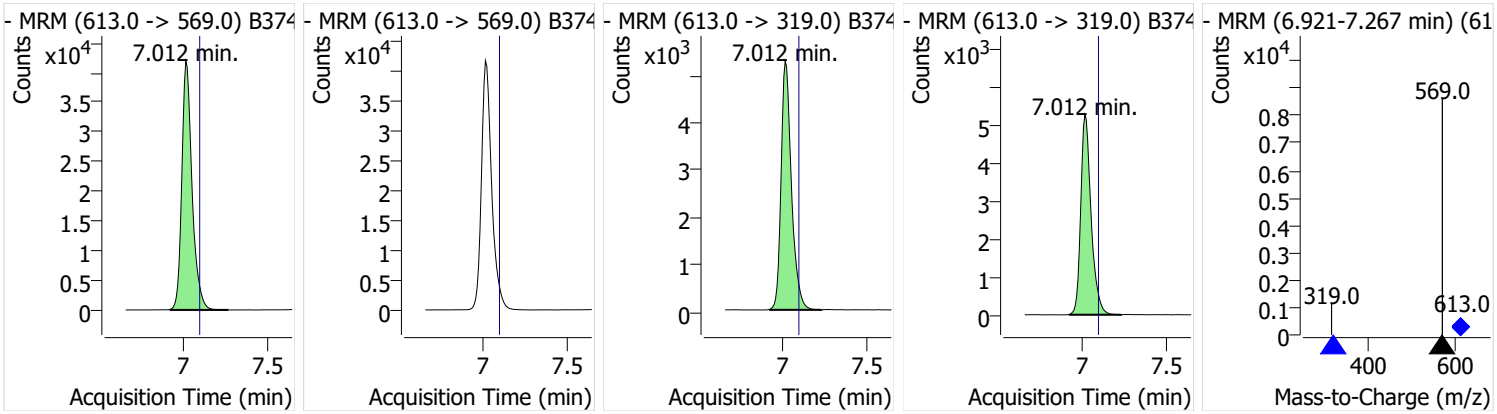

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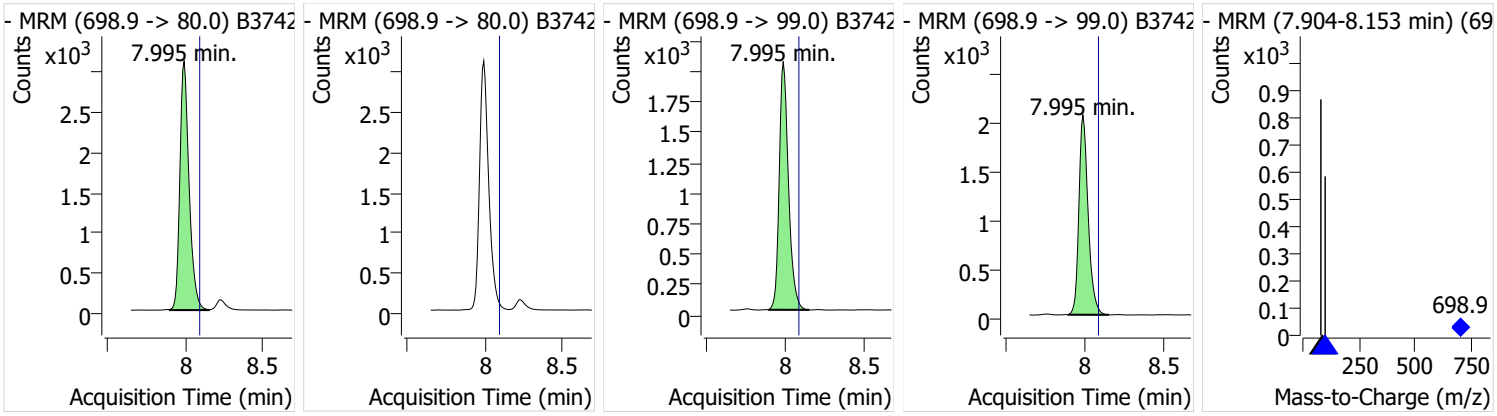
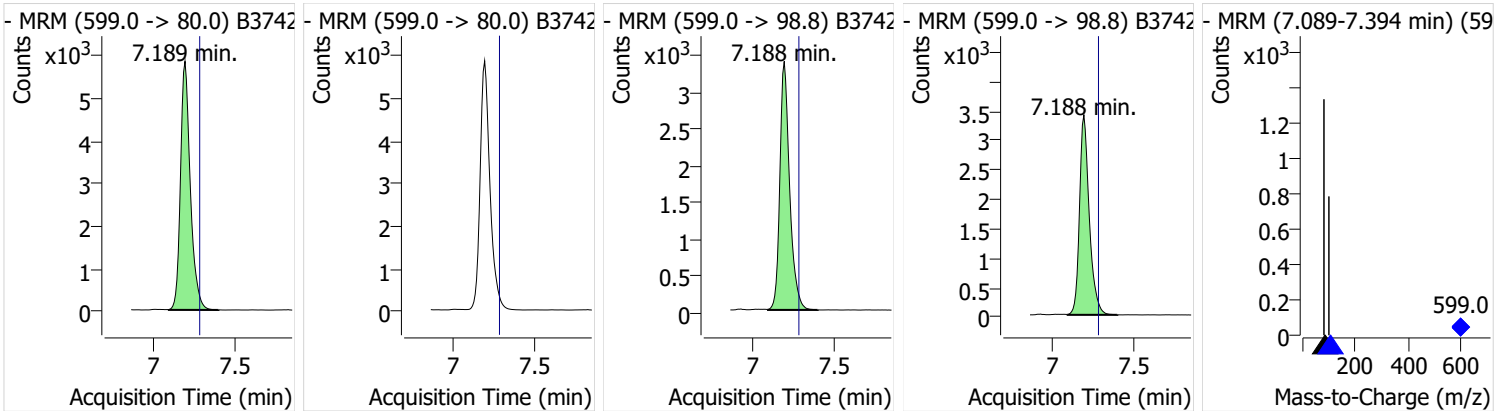


PFDS



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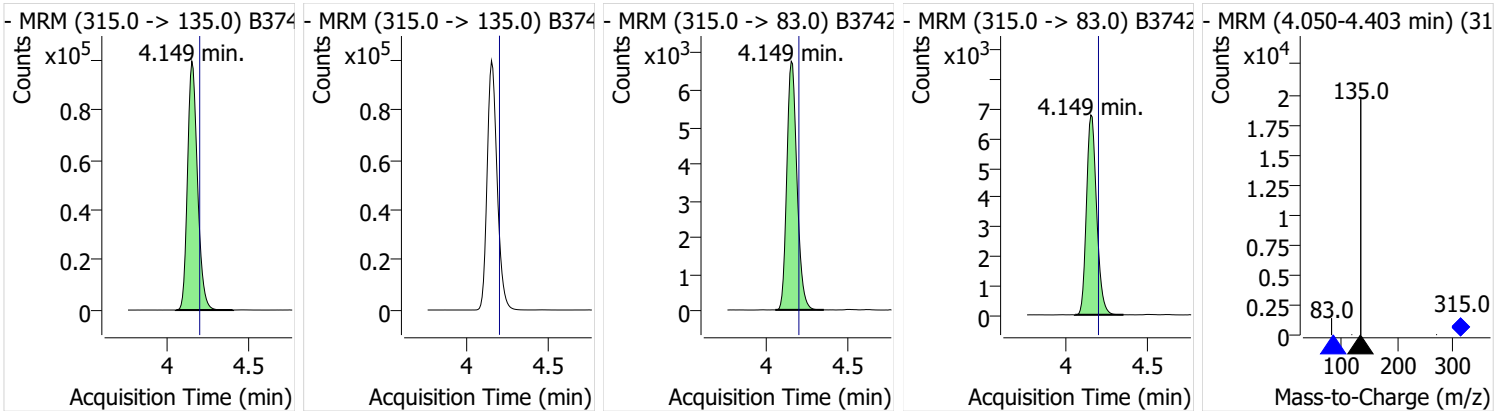

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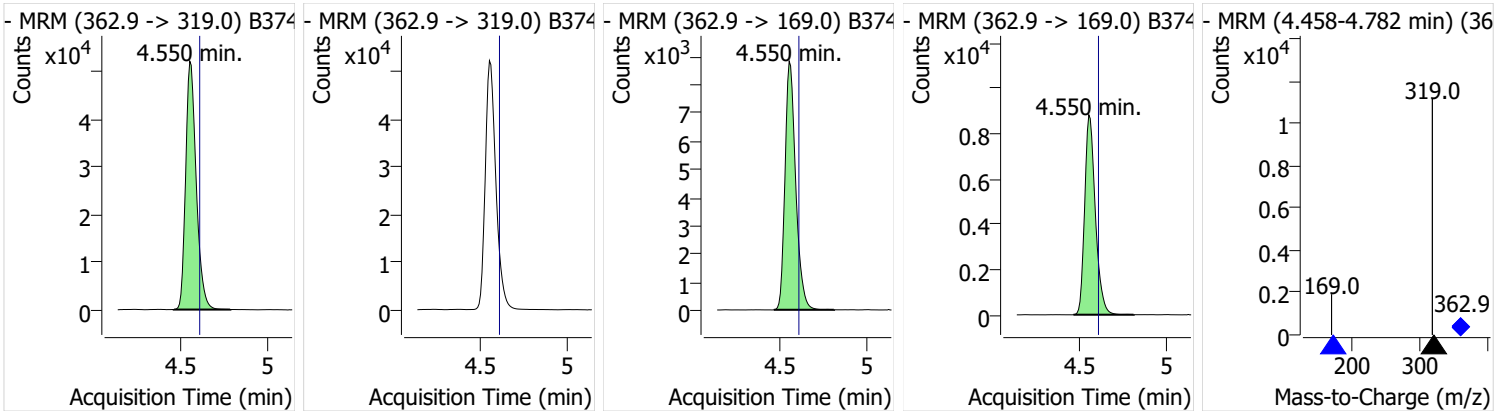

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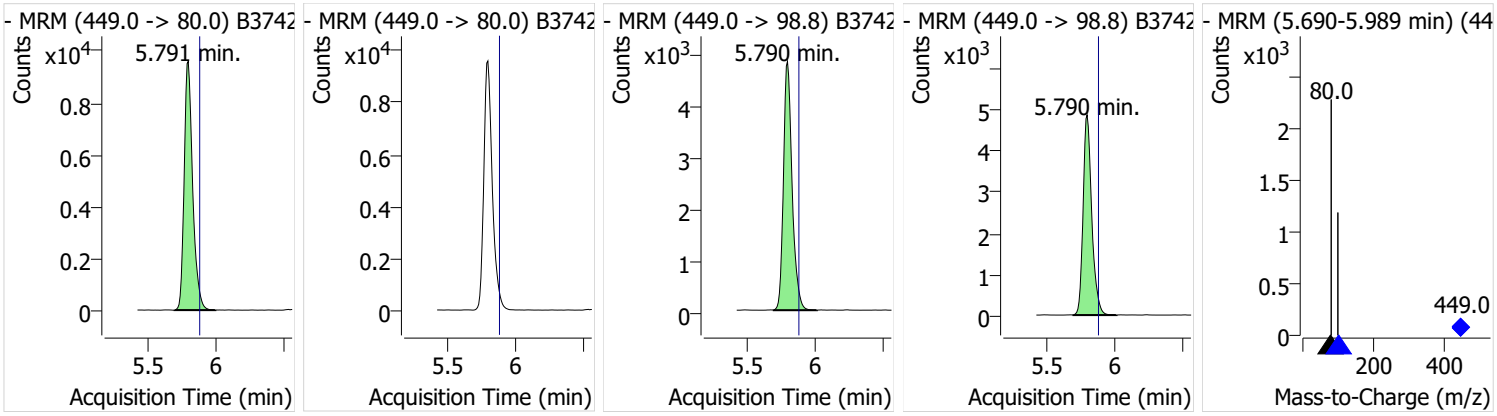

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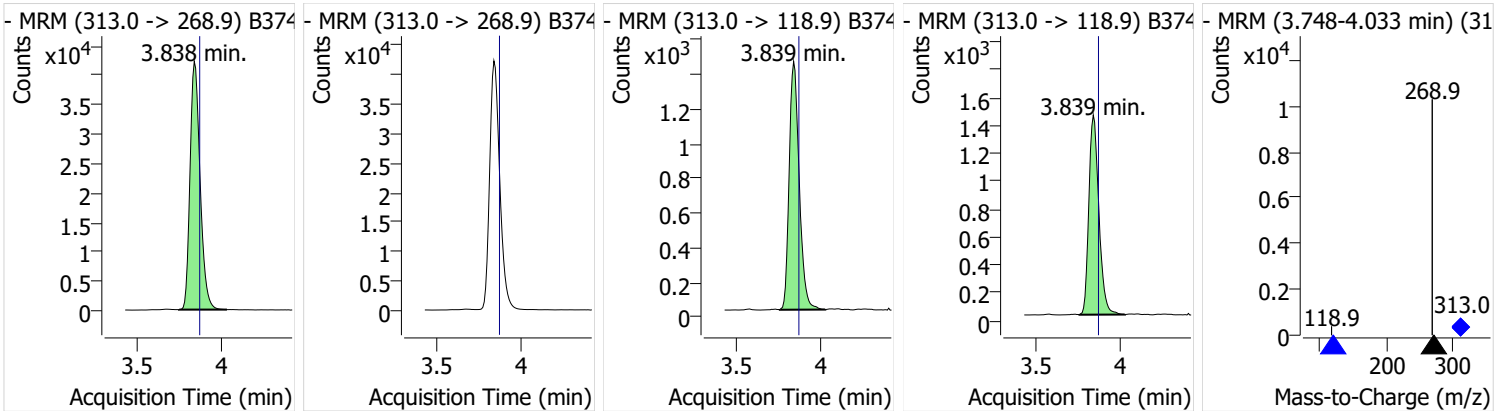

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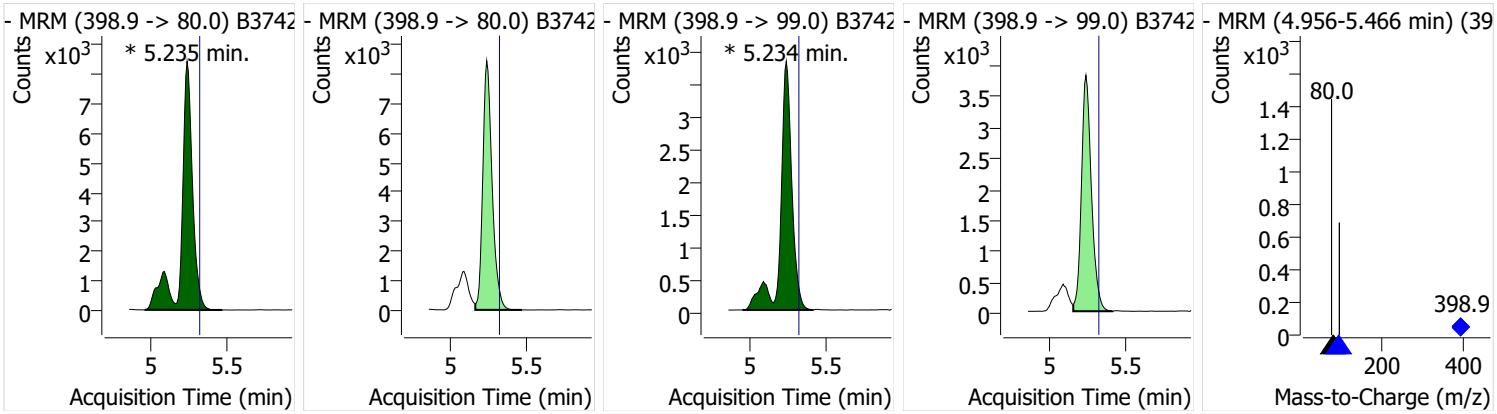

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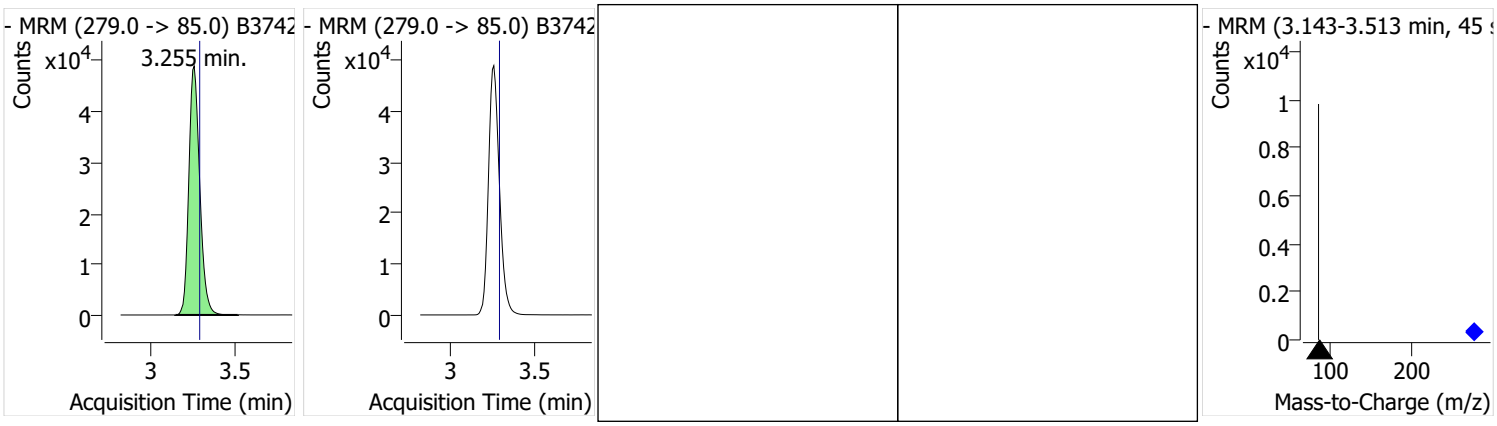
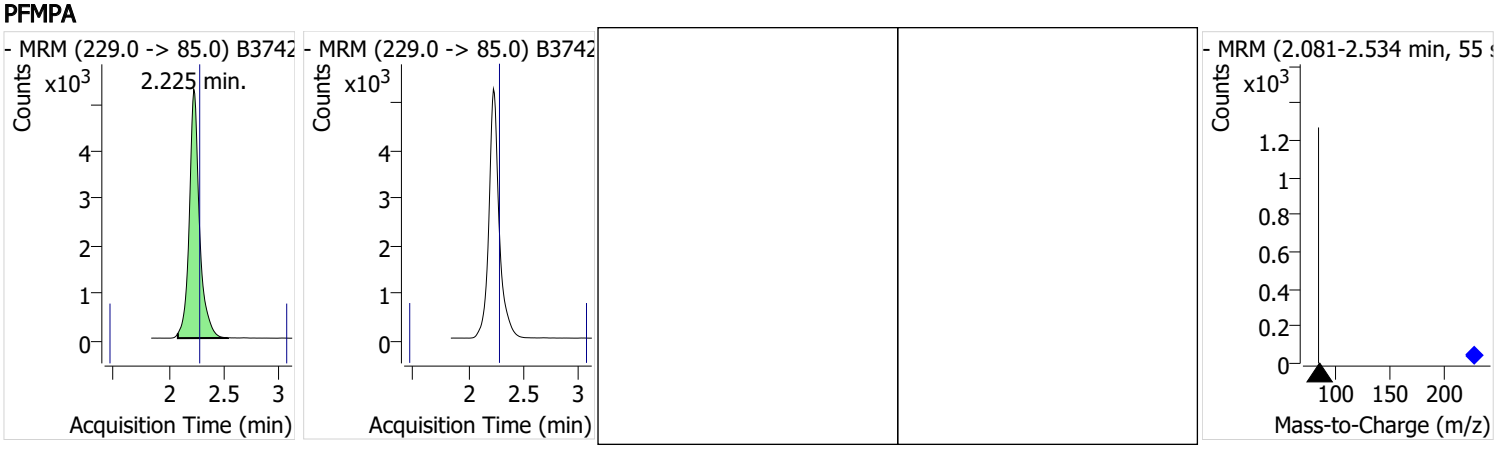


PFMPA



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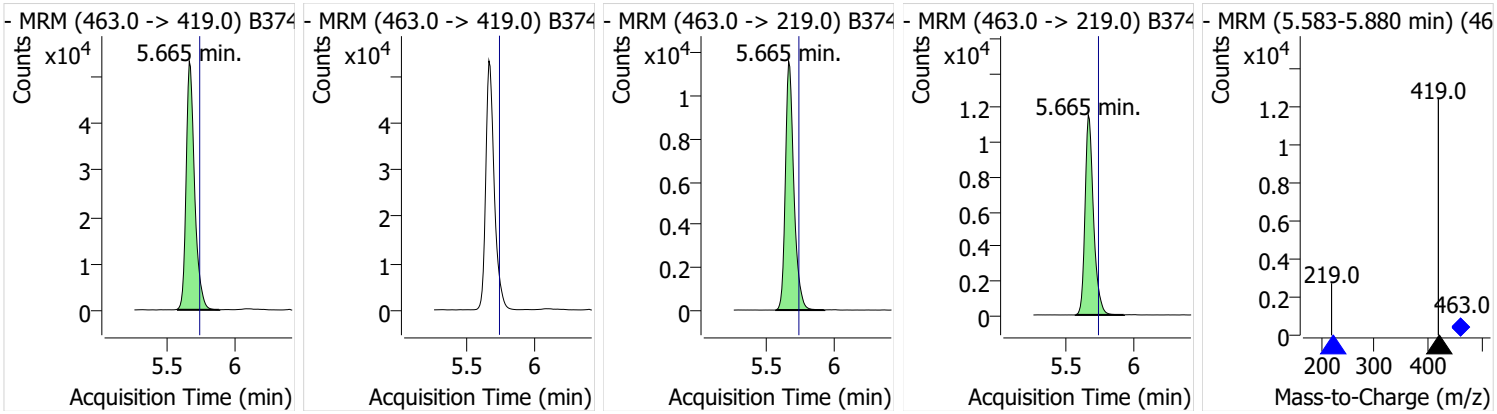

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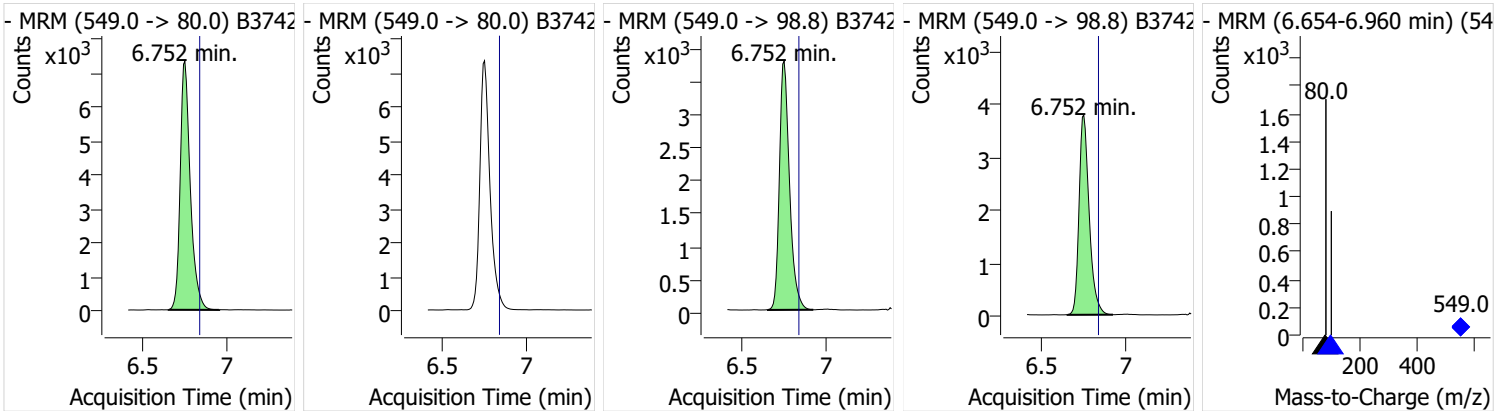

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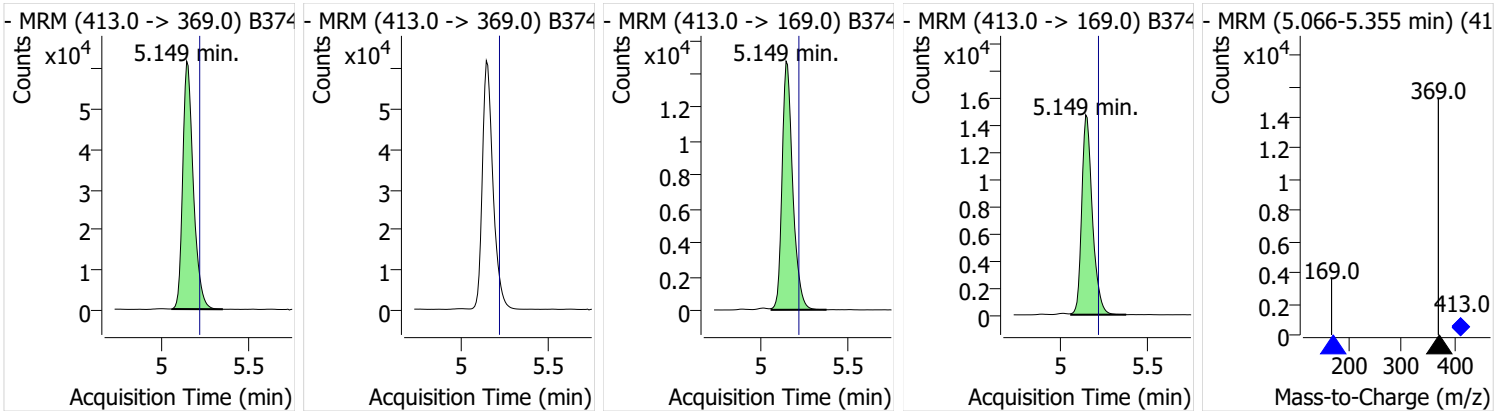
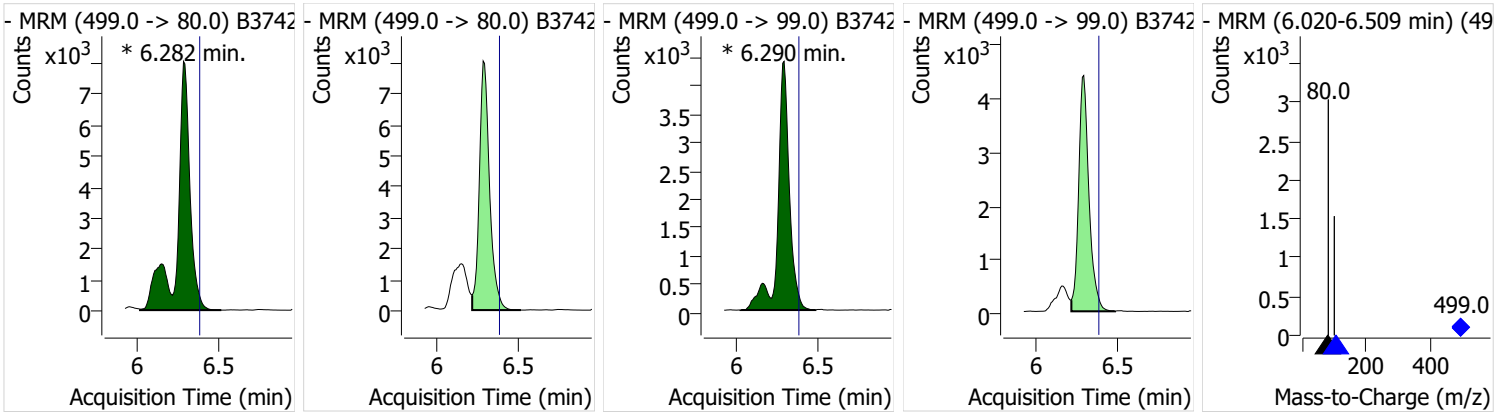
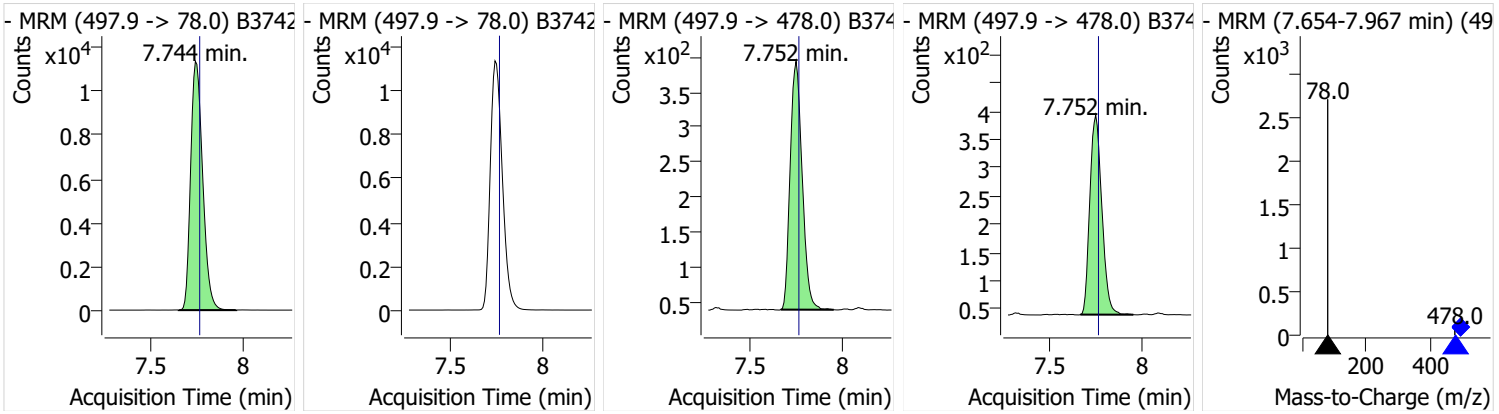


PFOS



PFOSA



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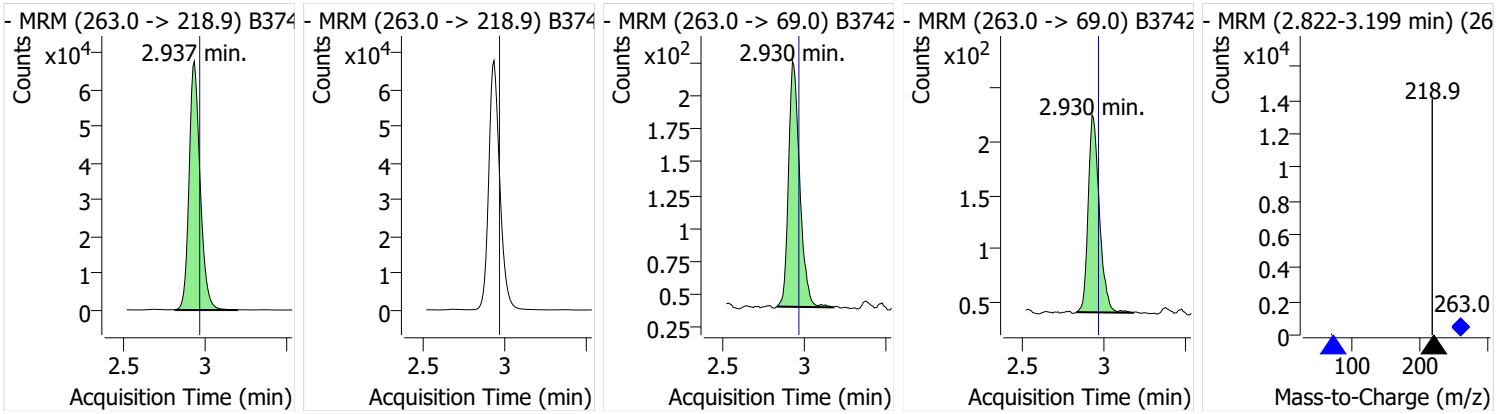

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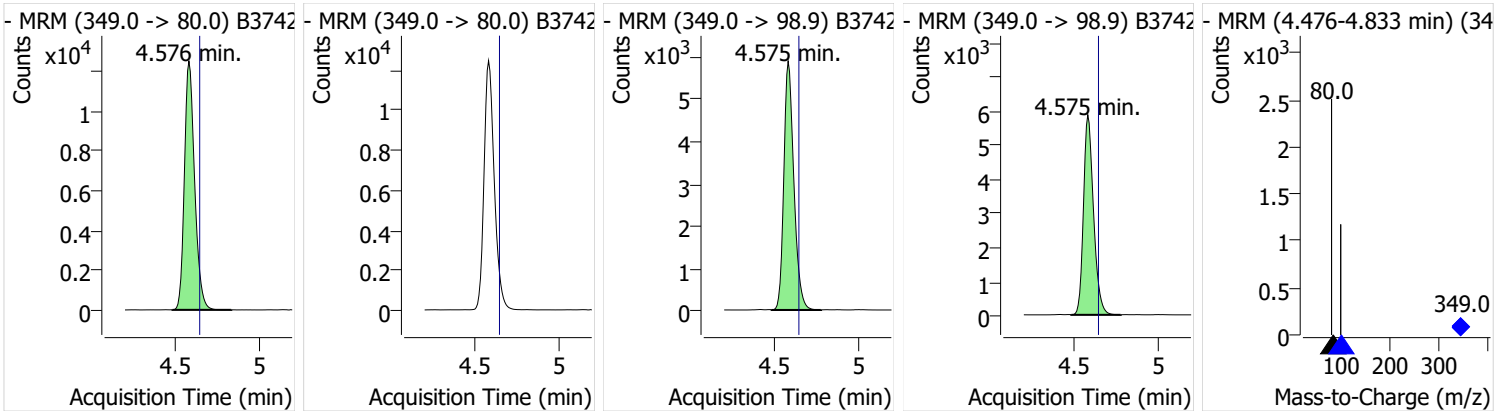

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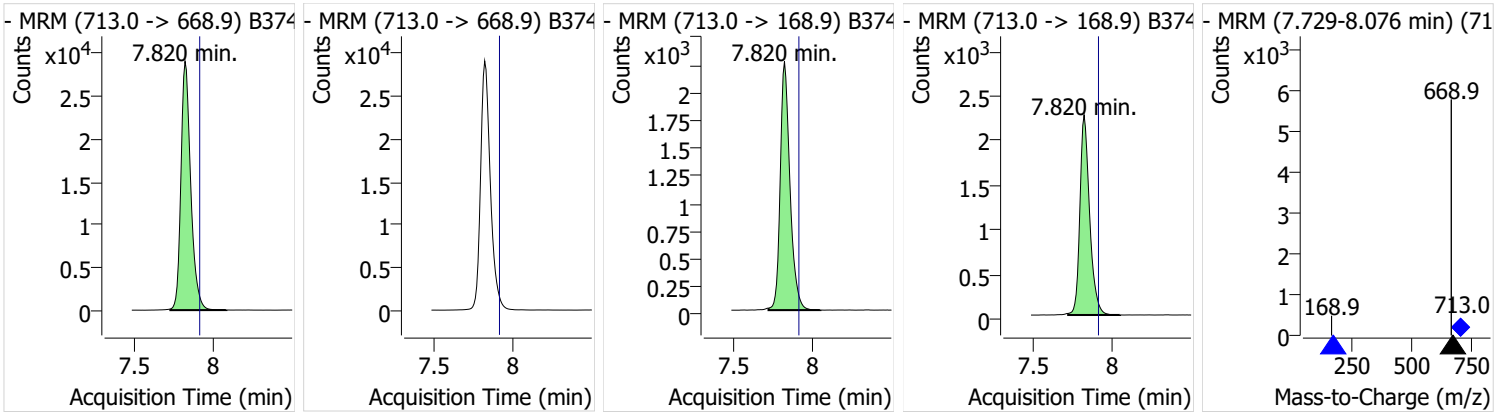
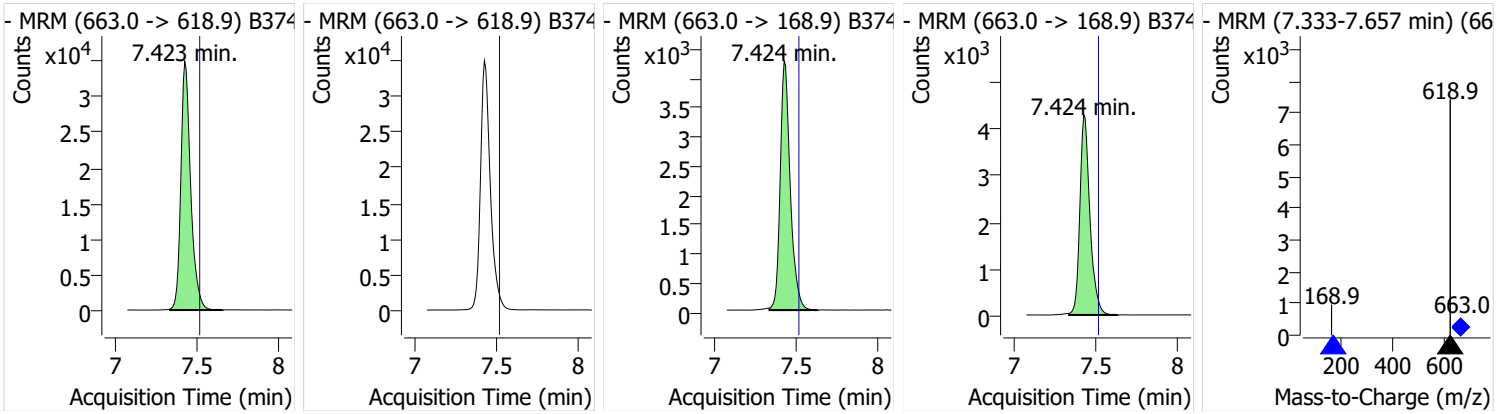


PFTrDA



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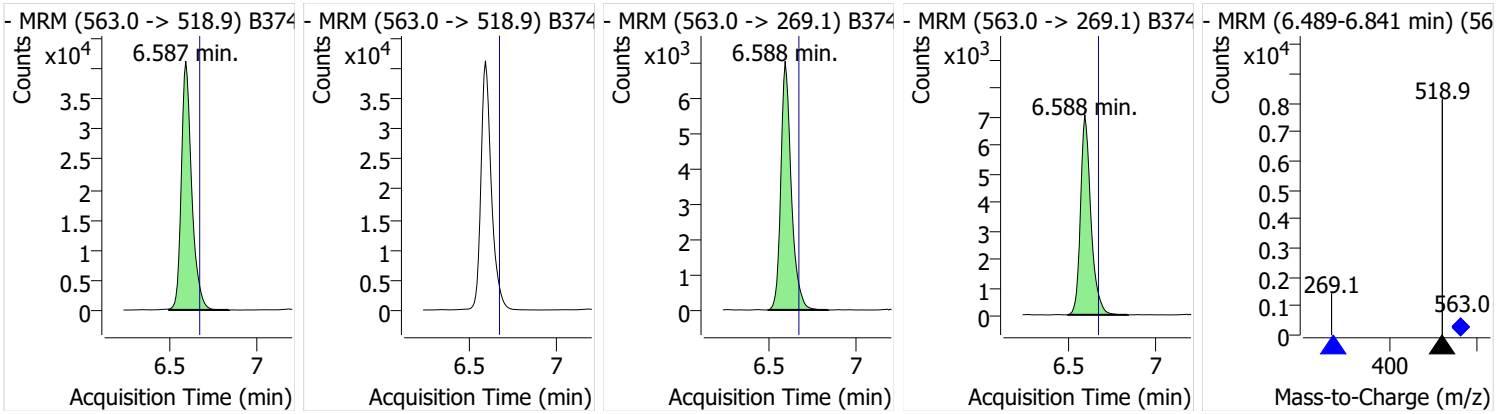

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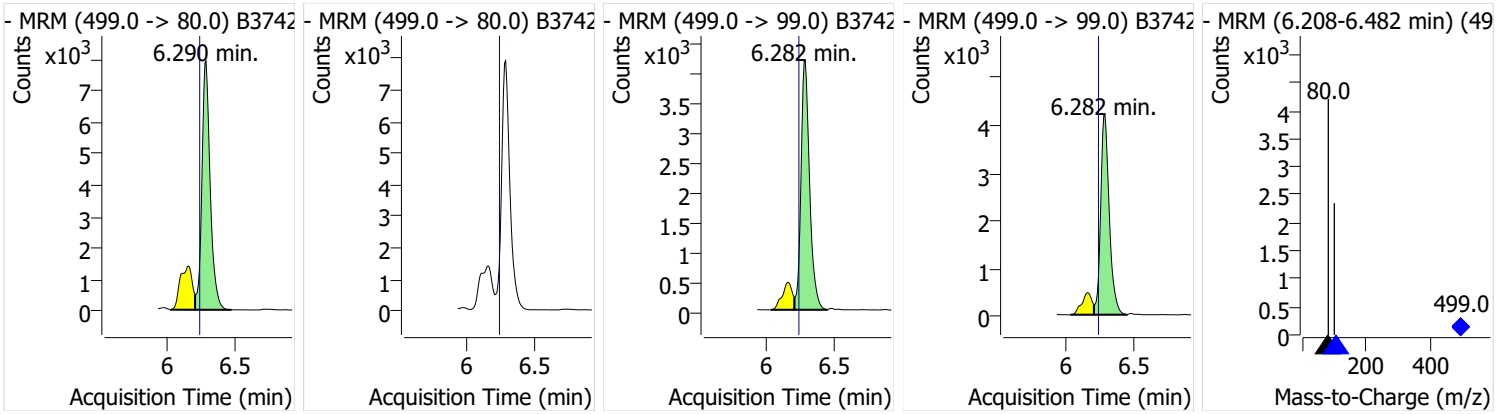

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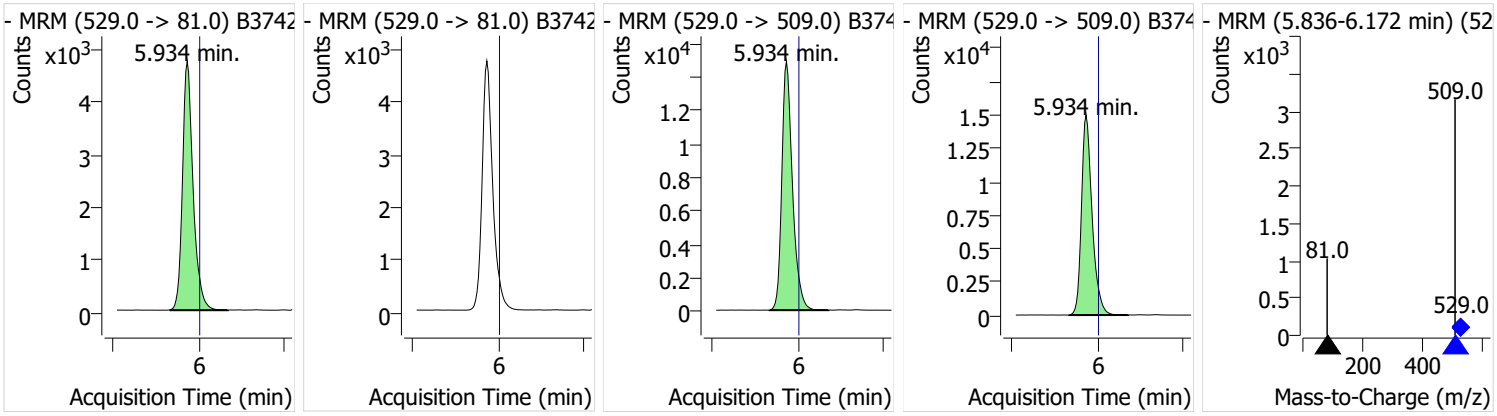
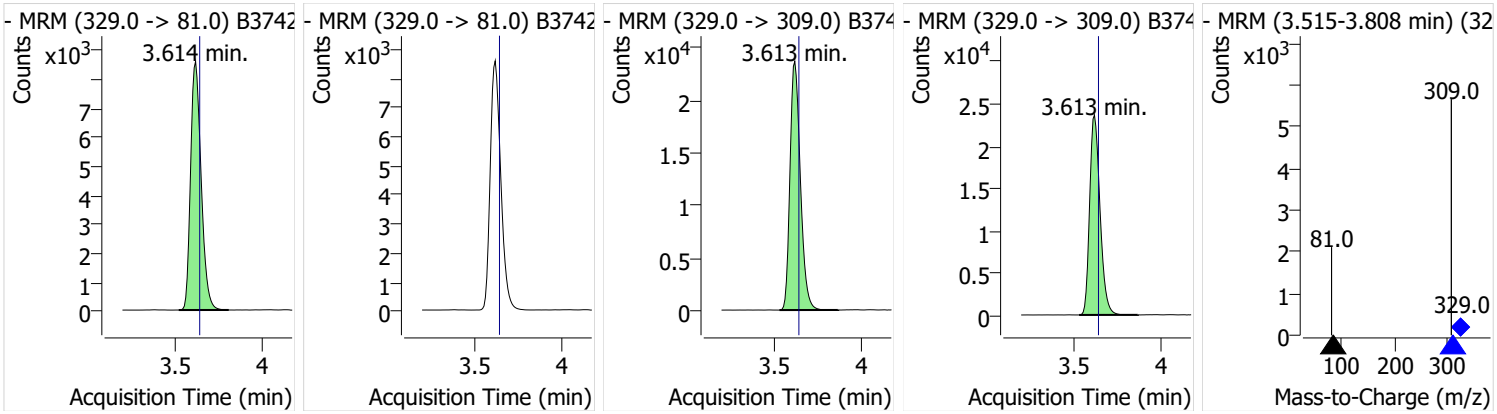
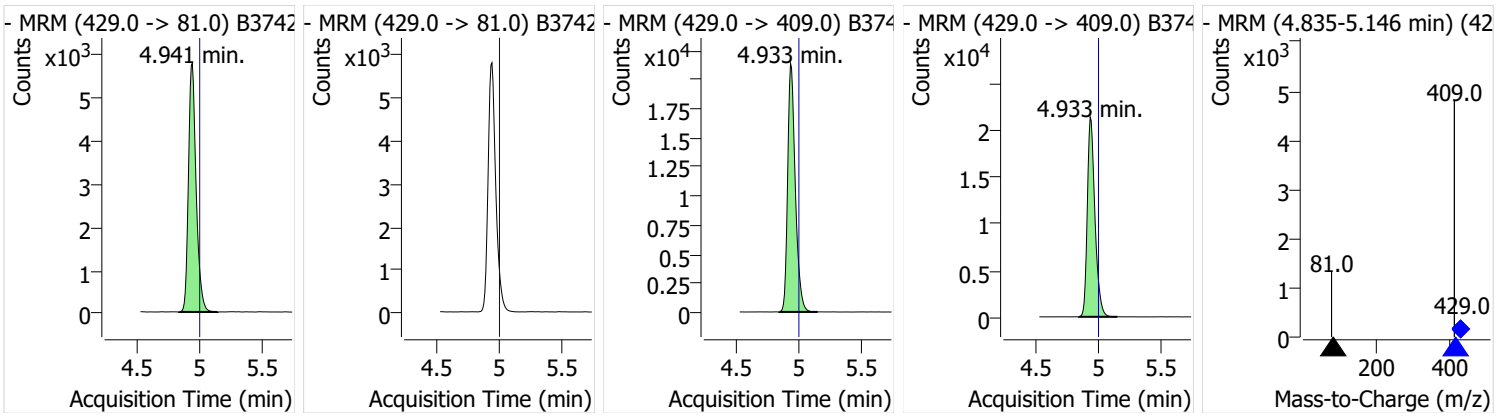


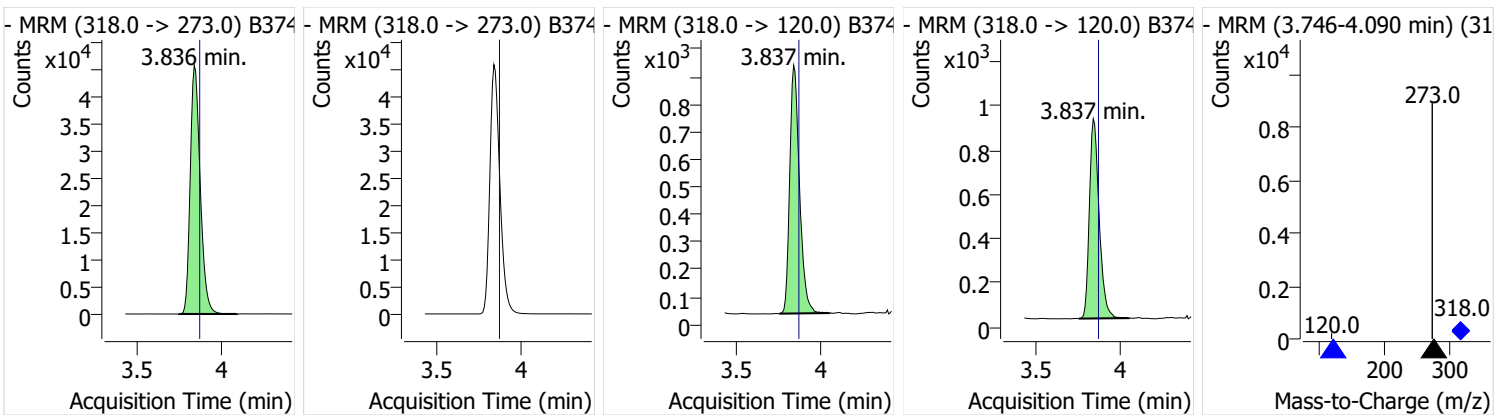
13C2-4:2FTS



13C2-6:2FTS



13C5-PFHxA



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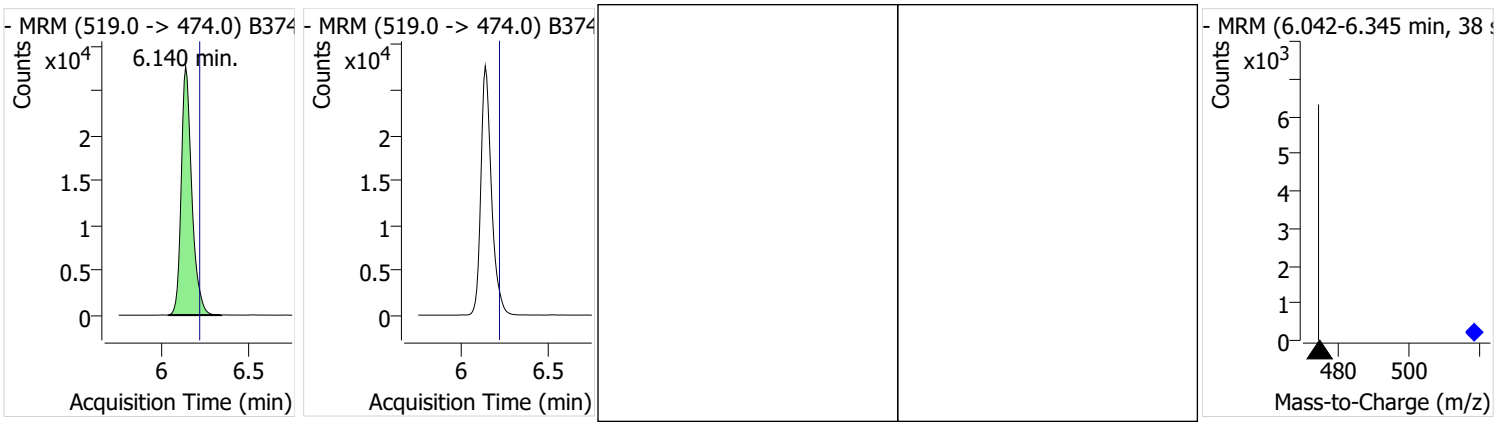

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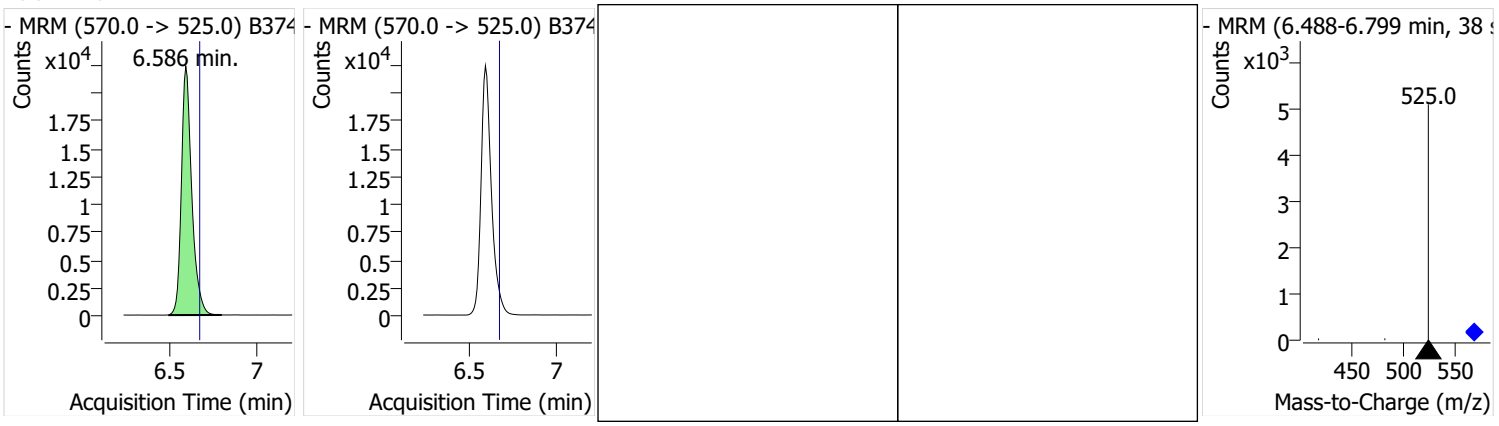

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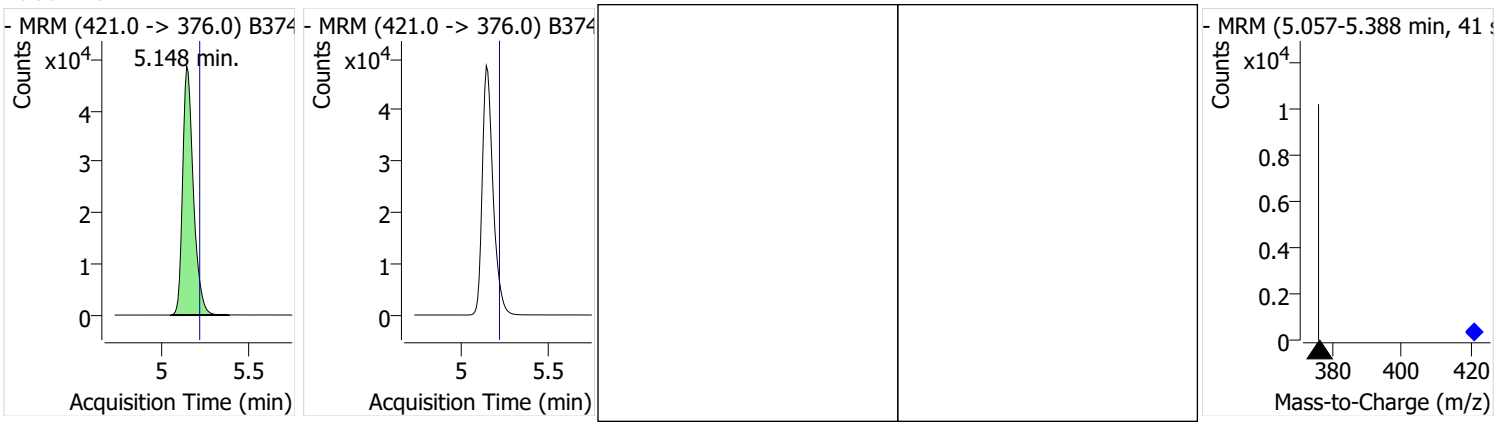

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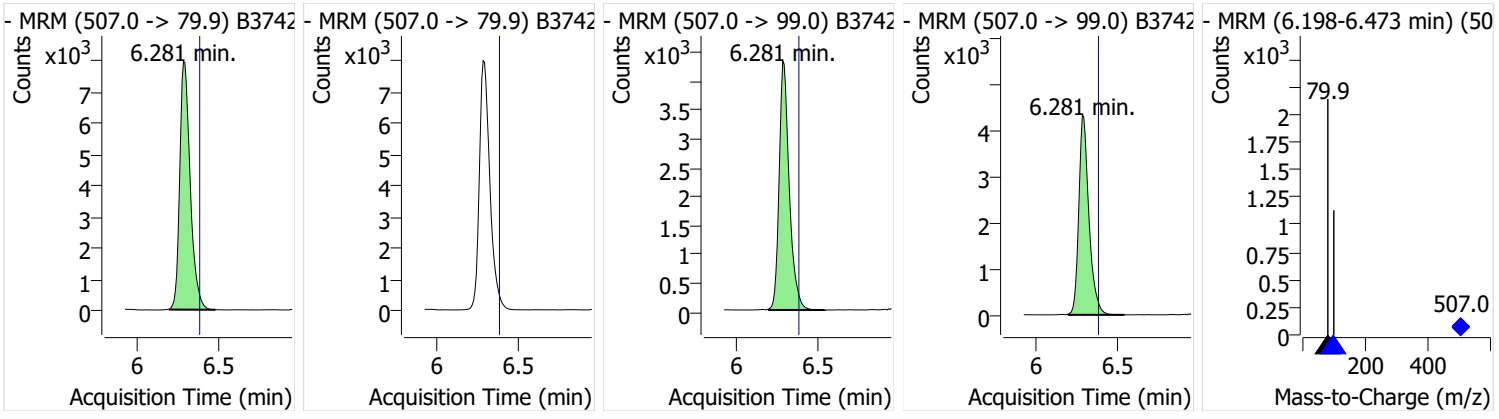

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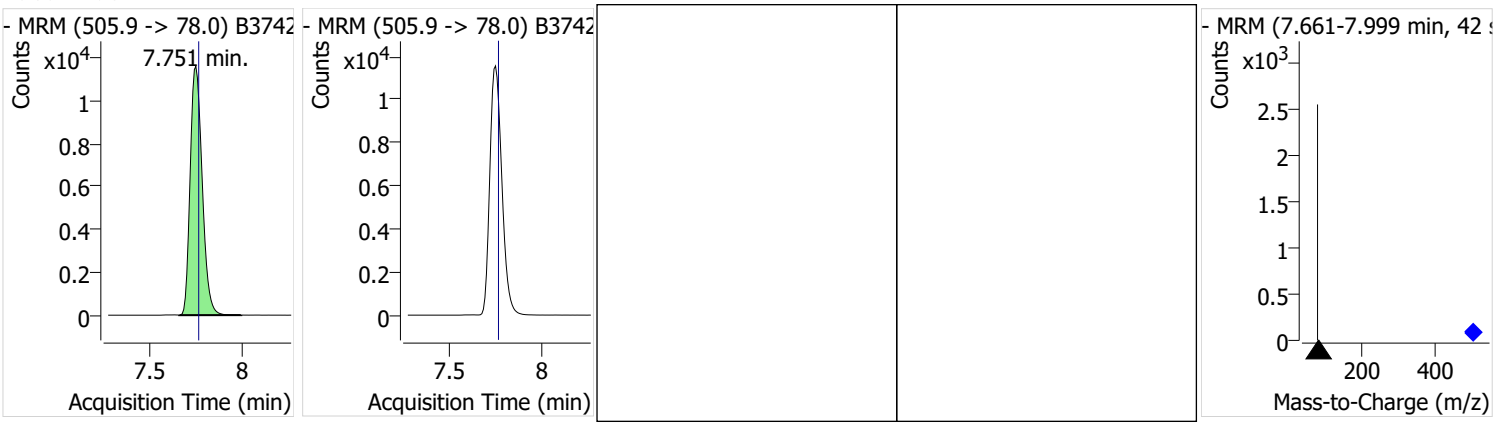

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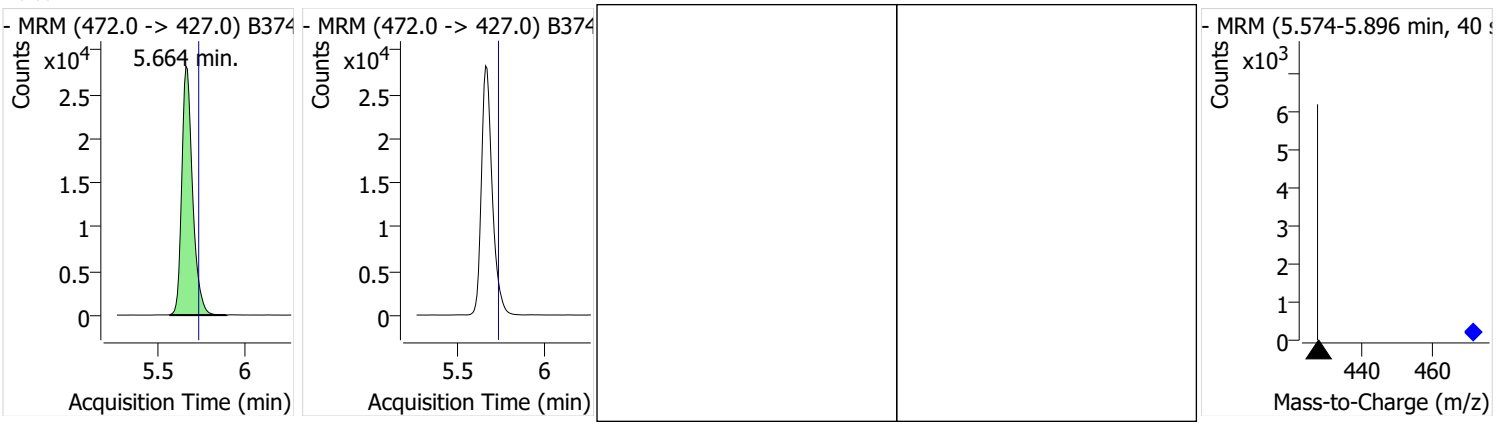

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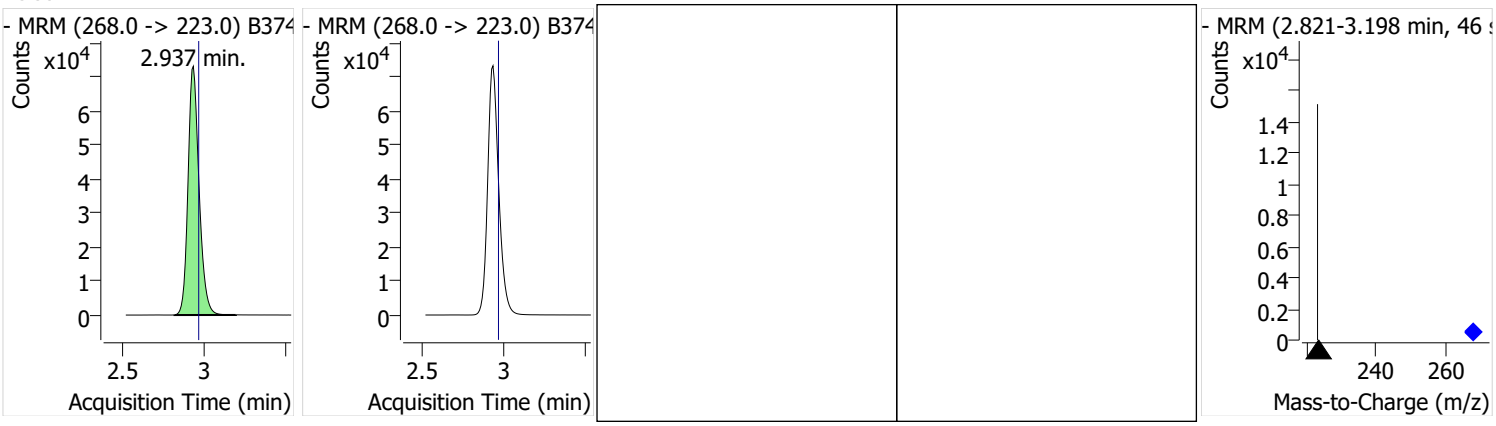

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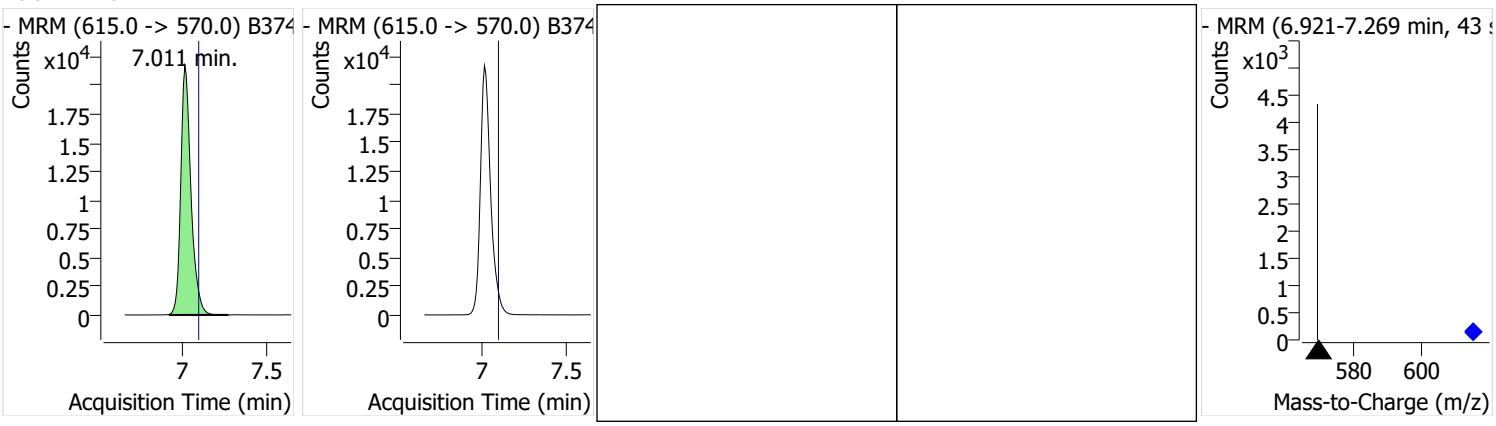

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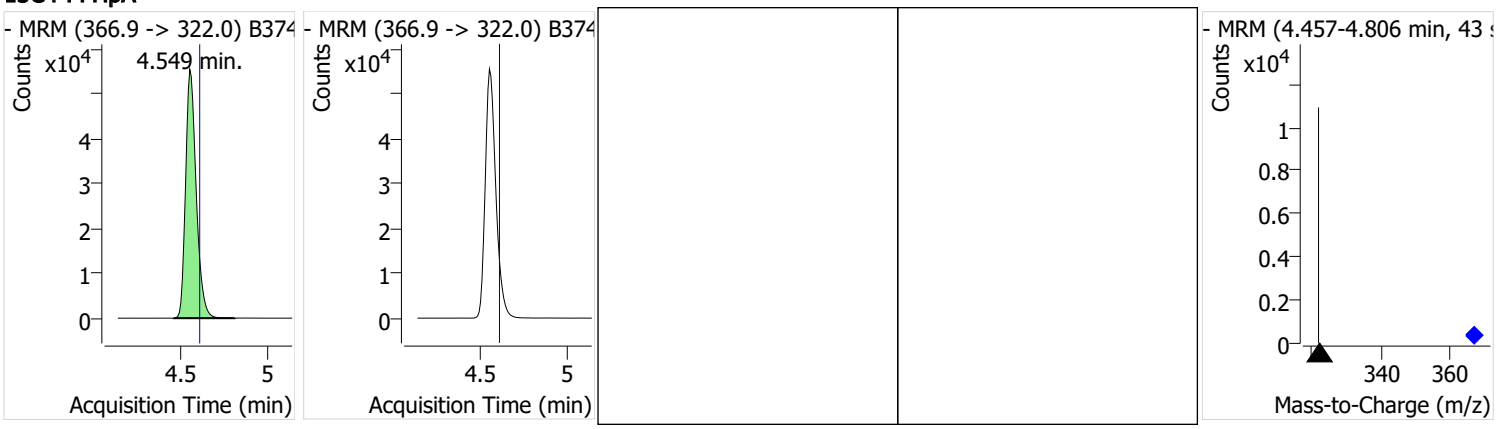

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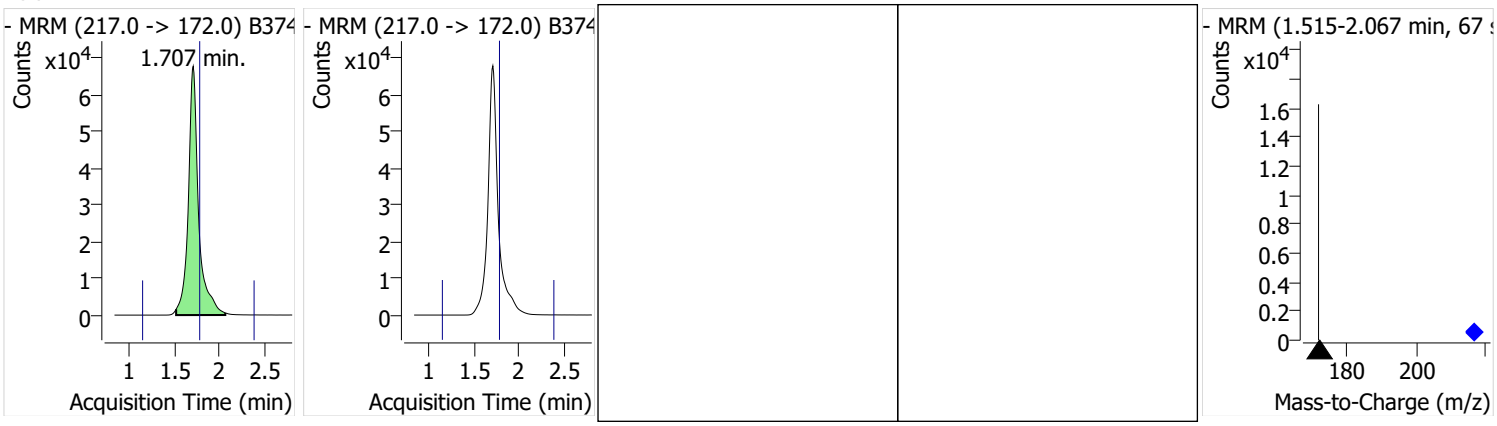

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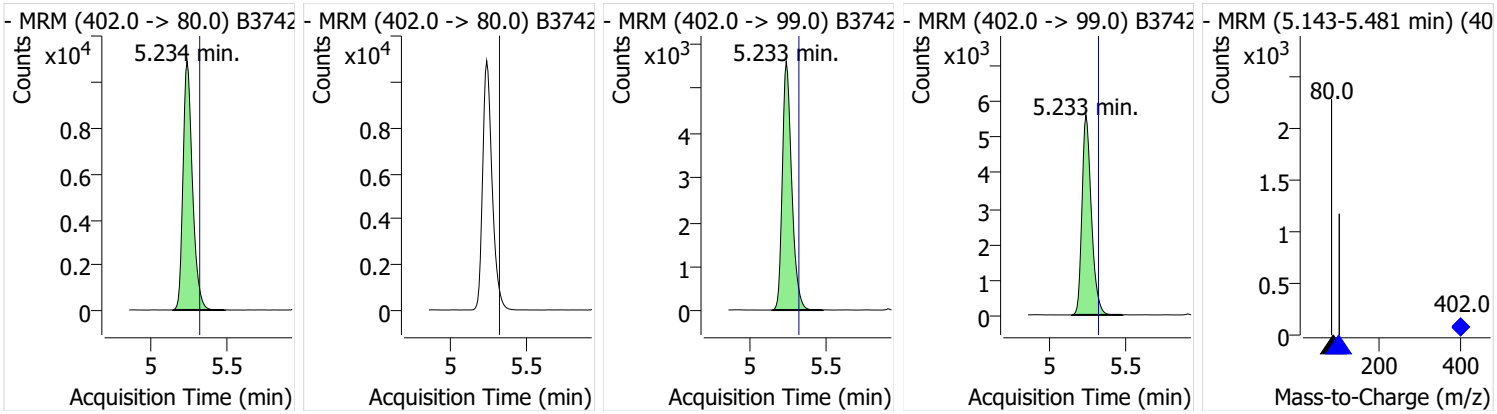

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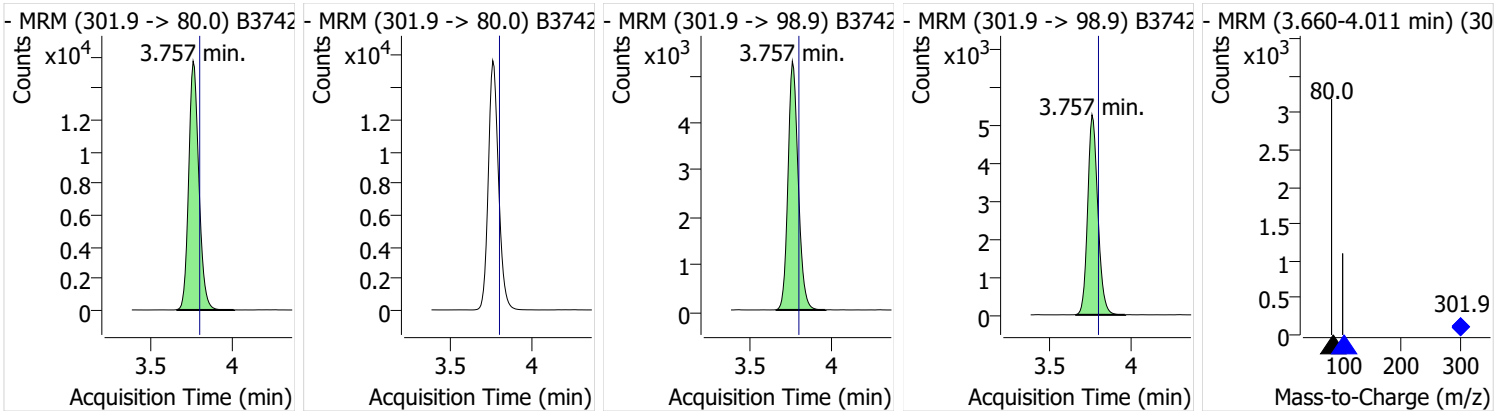

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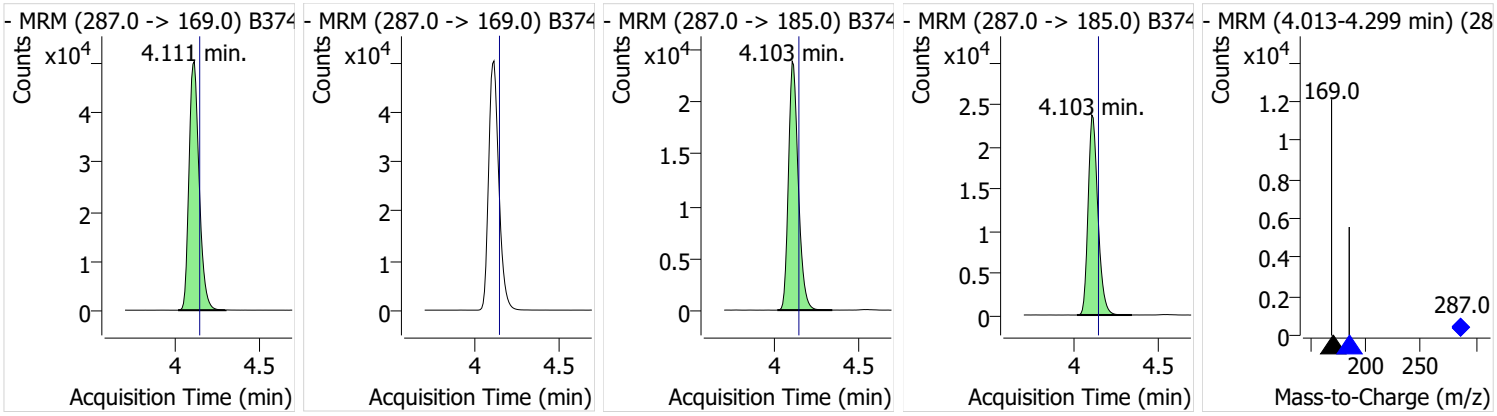

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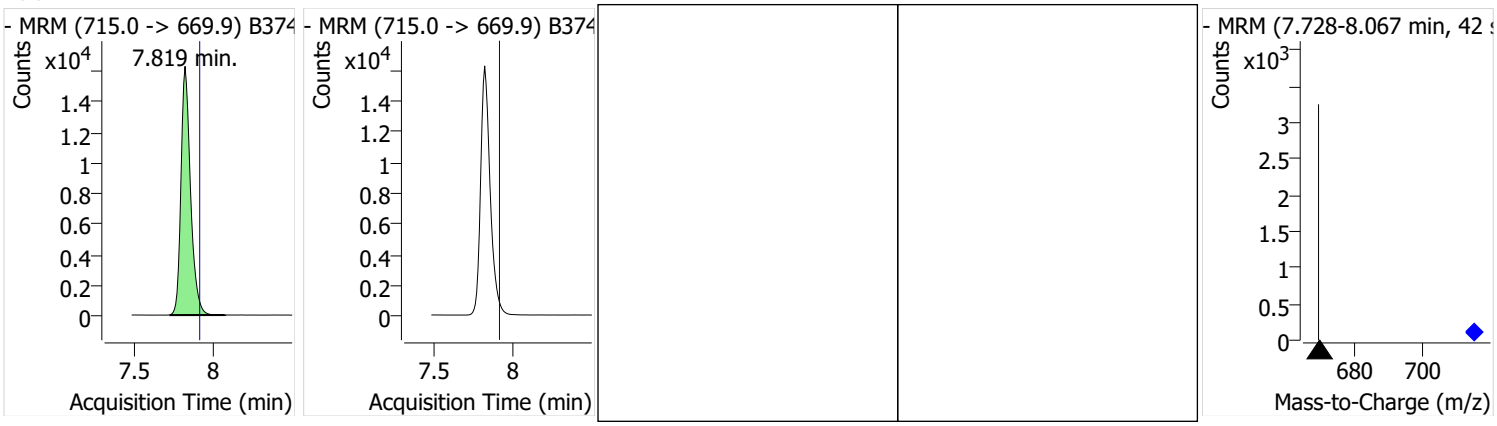
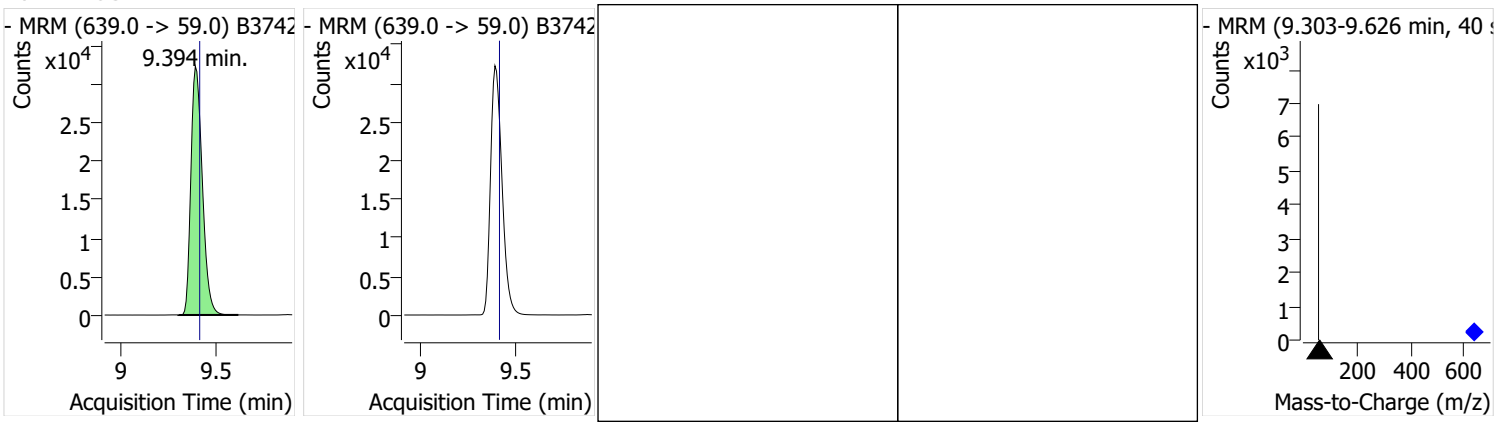
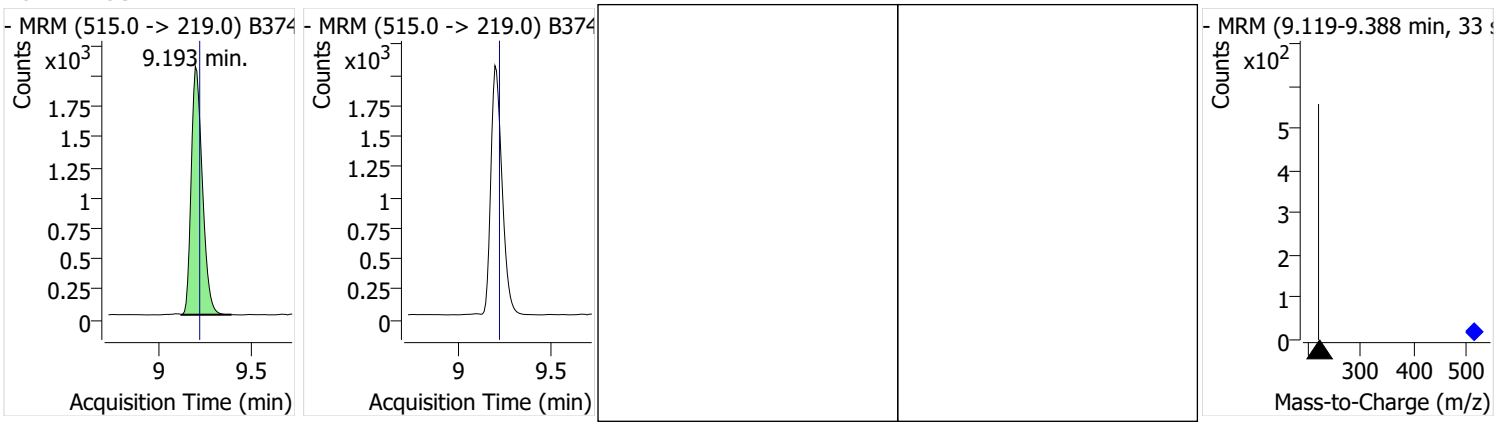


D9-NEtFOSE



D3-NMeFOSA



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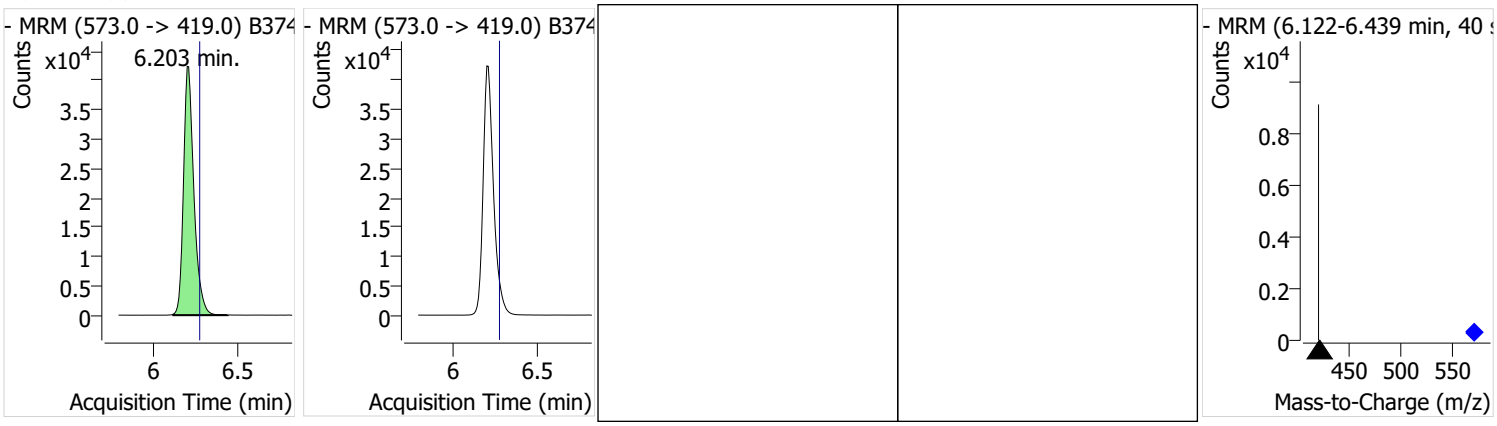

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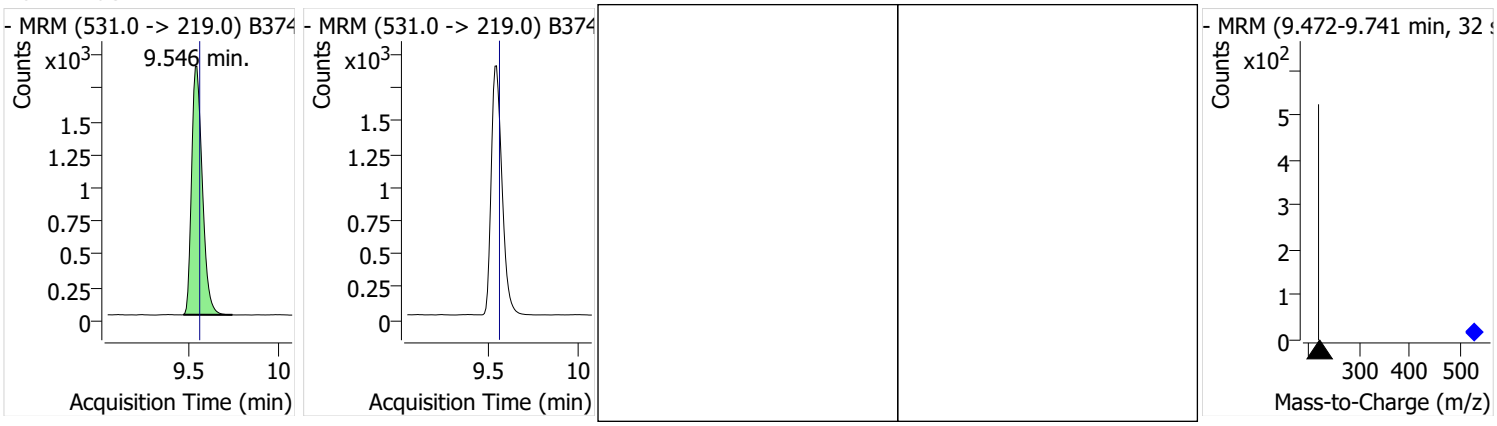
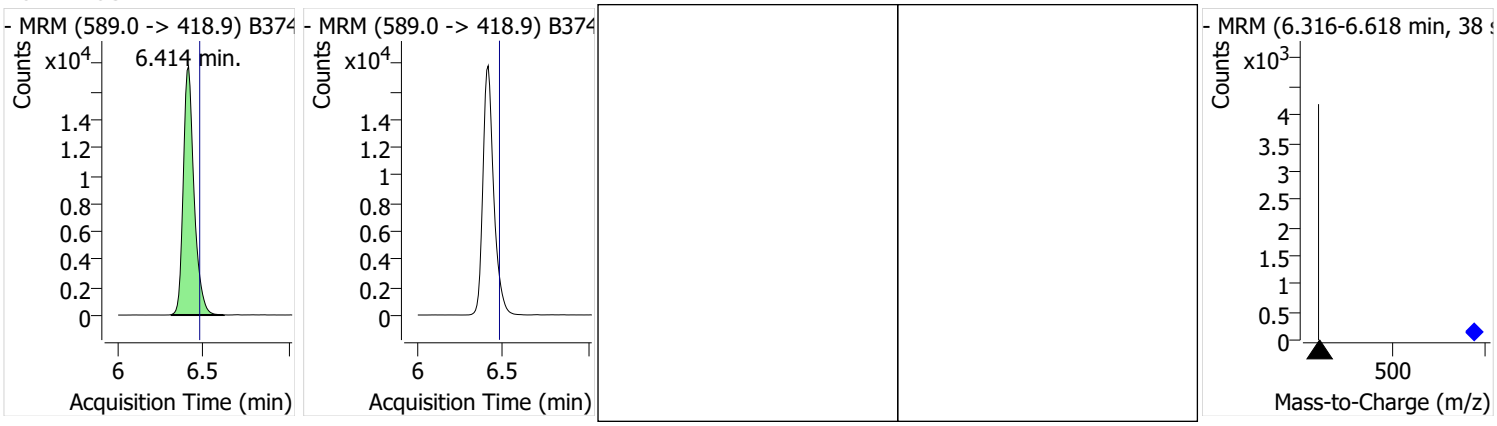
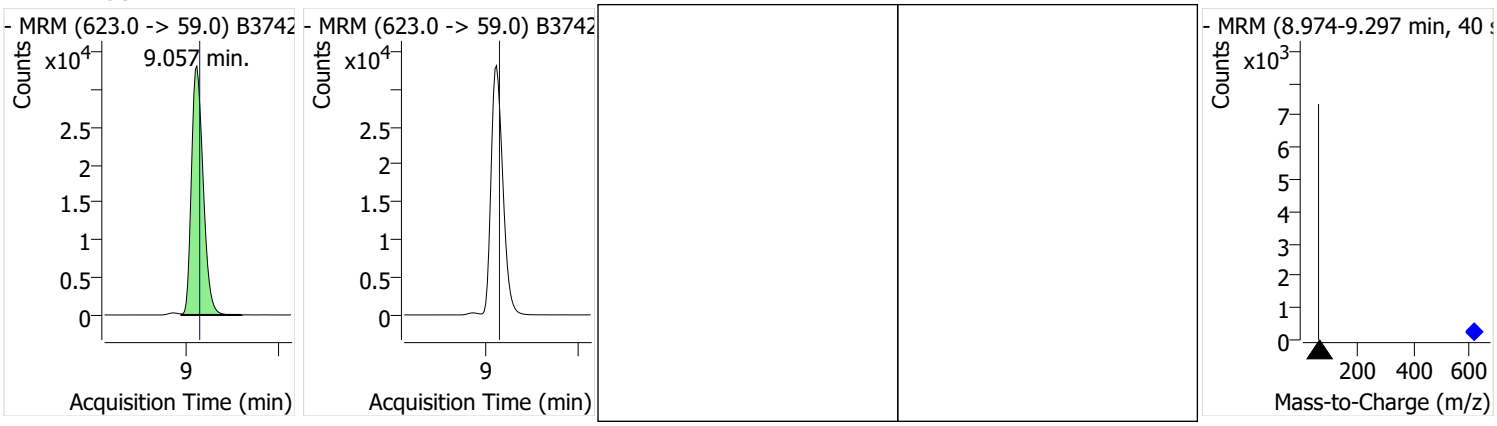


D5-NEtFOSAA



D7-NMeFOSE



1 - FORM I
ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374213-MSD1	File ID:	B374213-MSD1.d
Sampled:		Prepared:	05/15/24 00:00	Analyzed:	05/18/24 07:47
Solids:		Preparation:	Draft Method 1633	Dilution:	
Initial/Final:	7.06 g / 5 mL				
Batch:	B374213	Sequence:	S104823	Calibration:	2400518
Instrument:	QQQ6				
Column:	1				

CAS NO.	COMPOUND	CONC. (µg/kg dry)	MDL	RL	Q
375-22-4	Perfluorobutanoic acid (PFBA)	8.76	0.32	0.78	
2706-90-3	Perfluoropentanoic acid (PFPeA)	4.47	0.044	0.39	
307-24-4	Perfluorohexanoic acid (PFHxA)	2.26	0.032	0.20	
375-85-9	Perfluoroheptanoic acid (PFHpA)	2.21	0.014	0.20	
335-67-1	Perfluorooctanoic acid (PFOA)	2.37	0.031	0.20	
375-95-1	Perfluorononanoic acid (PFNA)	2.22	0.014	0.20	
335-76-2	Perfluorodecanoic acid (PFDA)	2.11	0.017	0.20	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	2.18	0.023	0.20	
307-55-1	Perfluorododecanoic acid (PFDoA)	2.15	0.021	0.20	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	2.18	0.022	0.20	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	2.21	0.020	0.20	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1.91	0.020	0.20	
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	2.11	0.025	0.20	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.92	0.077	0.20	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	2.16	0.021	0.20	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	2.22	0.031	0.20	
68259-12-1	Perfluorononanesulfonic acid (PFNS)	2.04	0.022	0.20	
335-77-3	Perfluorodecanesulfonic acid (PFDS)	2.06	0.031	0.20	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1.95	0.030	0.20	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (	8.54	0.068	0.78	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid ((	8.01	0.49	0.78	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (	8.44	0.091	0.78	
754-91-6	Perfluorooctanesulfonamide (PFOSA)	2.15	0.030	0.20	
31506-32-8	N-methyl perfluoroocatnesulfonamide (NMeF	2.36	0.024	0.20	
4151-50-2	N-ethyl perfluorooctanesulfonamide (NEtFOS	2.19	0.023	0.20	
2355-31-9	N-MeFOSAA (NMeFOSAA)	1.97	0.035	0.20	V-05
2991-50-6	N-EtFOSAA (NEtFOSAA)	2.14	0.029	0.20	
24448-09-7	N-methylperfluorooctanesulfonamidoethanol(	25.4	0.21	2.0	
1691-99-2	N-ethylperfluorooctanesulfonamidoethanol (N	24.9	0.21	2.0	

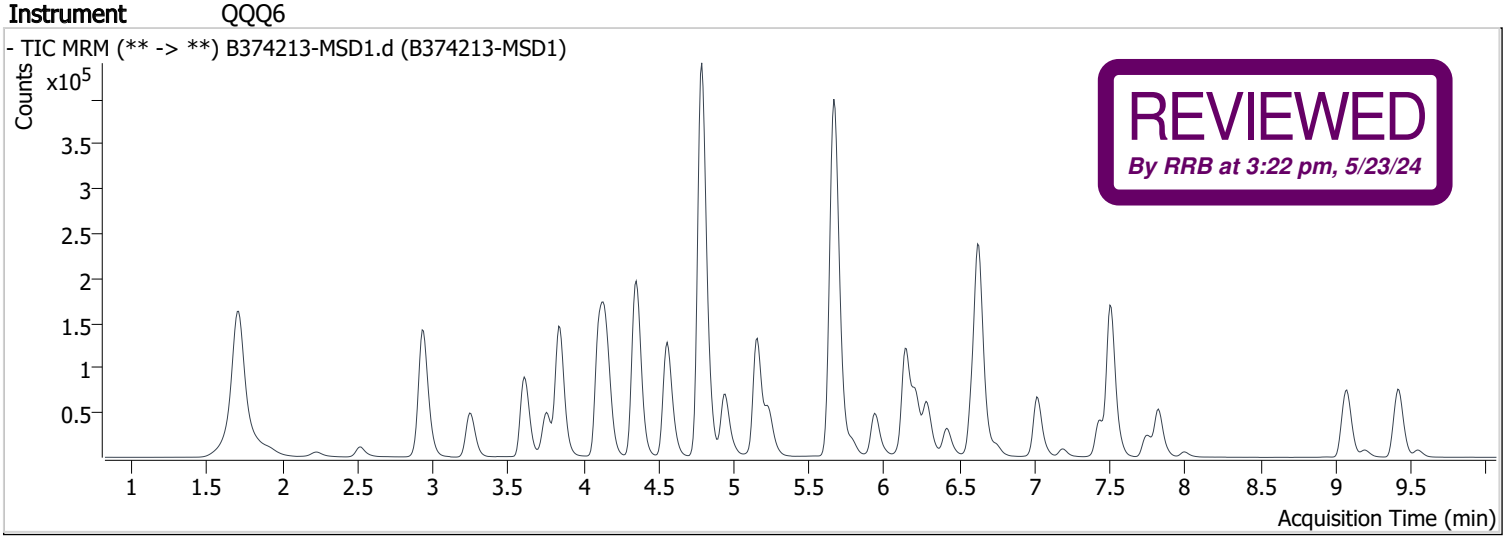
1 - FORM I
ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374213-MSD1	File ID:	B374213-MSD1.d
Sampled:		Prepared:	05/15/24 00:00	Analyzed:	05/18/24 07:47
Solids:		Preparation:	Draft Method 1633	Dilution:	
Initial/Final:	7.06 g / 5 mL				
Batch:	B374213	Sequence:	S104823	Calibration:	2400518
Instrument:	QQQ6				
Column:	1				

CAS NO.	COMPOUND	CONC. (µg/kg dry)	MDL	RL	Q
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPC	9.16	0.050	0.78	
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADON/	8.51	0.058	0.78	
756426-58-1	9Cl-PF3ONS (F53B Minor)	9.35	0.056	0.78	
763051-92-9	11Cl-PF3OUdS (F53B Major)	8.98	0.087	0.78	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)(3:3	14.8	0.19	2.0	
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)	59.7	1.3	9.8	MS-07A, R-06
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)(7:3	75.6	1.5	9.8	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEE	4.40	0.031	0.39	
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	4.42	0.032	0.39	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	4.53	0.032	0.39	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.86	0.059	0.39	

Batch Path	R:\Data\MAY2024\051724\QuantResults\B374213.batch.bin		
Analysis Time	5/23/2024 5:54 AM	**Last Calib Update**	5/9/2024 9:16 AM
Acq. Time	5/18/2024 7:47 AM	**Data File**	B374213-MSD1.d
Sample Type	QC	**Sample Name**	B374213-MSD1
Dilution	1	**Acq. Method**	1633_ACQUISITION_01.m
Sample Comment		**Processing method**	1633_050824.m
Instrument	QQQ6		



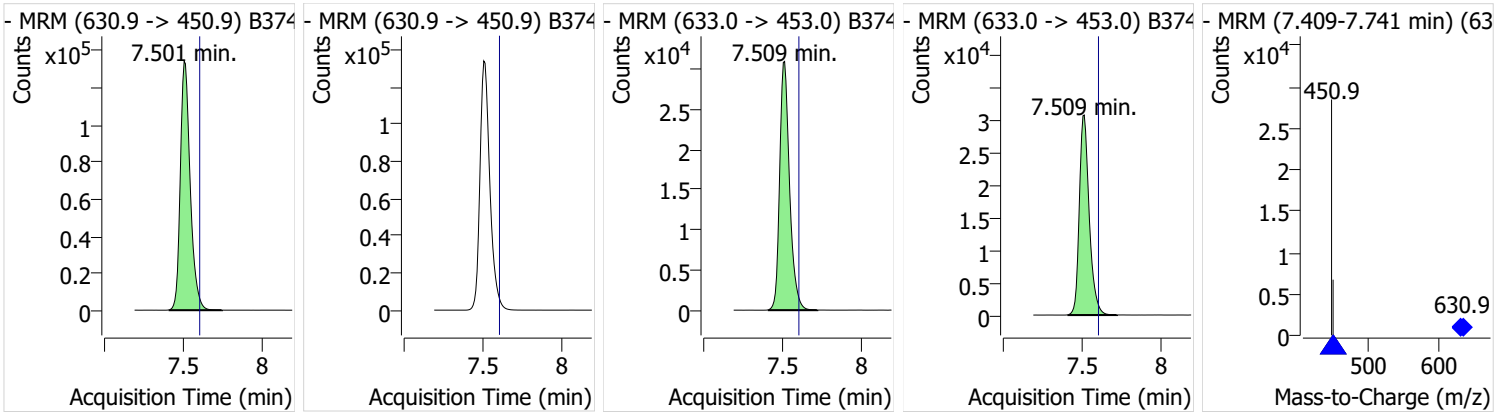
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
11Cl-PF3OUdS	7.501	585044	46326.75		13C3-HFPODA - ISTD	4.111	215606	9.1949	ng/ml			
633.0 -> 453.0			12313.01	23.0								
3:3FTCA	2.513	36929	4308.39		13C5-PFPeA - ISTD	2.928	343636	15.1195	ng/ml			
241.0 -> 117.0			1292.18	48.8								
4:2FTS	3.606	179829	22085.19		13C2-4:2FTS - ISTD	3.605	35236	8.7430	ng/ml			
327.0 -> 80.9			9743.47	38.2								
5:3FTCA	4.351	456250	20408.86		13C5-PFHxA - ISTD	3.836	187225	61.1570	ng/ml			
341.0 -> 217.0			20222.66	90.8								
6:2FTS	4.942	136798	11426.43		13C2-6:2FTS - ISTD	4.941	24616	8.2038	ng/ml			
427.0 -> 80.9			3860.33	33.3								
7:3FTCA	5.666	679769	12751.39		13C5-PFHxA - ISTD	3.836	187225	77.3713	ng/ml			
441.0 -> 317.0			7858.92	87.7								
8:2FTS	5.935	92298	8259.57		13C2-8:2FTS - ISTD	5.934	20912	8.6459	ng/ml			
527.0 -> 81.0			5811.66	40.7								
9Cl-PF3ONS	6.630	681126	44711.28		13C3-HFPODA - ISTD	4.111	215606	9.5727	ng/ml			
533.0 -> 353.0			15674.28	30.2								
ADONA	4.789	1395550	41189.76		13C3-HFPODA - ISTD	4.111	215606	8.7115	ng/ml			
377.0 -> 85.1			37586.95	35.2								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA	4.112	186113	18023.10		13C3-HFPODA - ISTD	4.111	215606	9.3802	ng/ml			
285.0 -> 184.9			5323.14	52.1								
NEtFOSA	9.548	10717	7695.91		D5-NEtFOSA - ISTD	9.546	9188	2.2453	ng/ml			
526.0 -> 219.0			6030.81	95.0								
NEtFOSAA	6.415	42128	6291.52		D5-NEtFOSAA - ISTD	6.414	75764	2.2970	ng/ml	✔	3	ALB 5/22/24
584.0 -> 526.0			1747.27	65.6								
NEtFOSE	9.420	185701	19844.64		D9-NEtFOSE - ISTD	9.394	163019	25.4971	ng/ml			
NFDHA	3.750	31505	5744.45		13C5-PFHxA - ISTD	3.836	187225	4.9778	ng/ml			
295.0 -> 85.0			1711.83	36.1								
NMeFOSA	9.203	10917	9952.55		D3-NMeFOSA - ISTD	9.193	9309	2.4212	ng/ml			
512.0 -> 219.0			4300.98	91.8								
NMeFOSAA	6.212	31080	9788.54		D3-NMeFOSAA - ISTD	6.211	181468	2.0197	ng/ml	✔	3	ALB 5/22/24
570.0 -> 418.9			4498.91	69.0								
NMeFOSE	9.074	181970	96408.60		D7-NMeFOSE - ISTD	9.057	162317	25.9642	ng/ml			
PFBA	1.704	440014	17575.58		13C4-PFBA - ISTD	1.707	531624	8.9666	ng/ml	✔	3	ALB 5/22/24
PFBS	3.758	63275	6489.24		13C3-PFBS - ISTD	3.757	64677	1.9600	ng/ml			
298.9 -> 98.8			3763.68	38.4								
PFDA	6.140	208093	5506.30		13C6-PFDA - ISTD	6.140	116764	2.1626	ng/ml			
513.0 -> 219.0			4488.31	16.4								
PFDoA	7.012	171341	7183.05		13C2-PFDoA - ISTD	7.011	94034	2.1983	ng/ml			
613.0 -> 319.0			5598.14	12.8								
PFDoS	7.995	13904	5520.85		13C8-PFOS - ISTD	6.289	34885	2.0000	ng/ml			
698.9 -> 99.0			3327.11	66.1								
PFDS	7.189	23930	5003.32		13C8-PFOS - ISTD	6.289	34885	2.1054	ng/ml			
599.0 -> 98.8			3692.36	57.7								
PFEESA	4.157	424594	20223.03		13C5-PFHxA - ISTD	3.836	187225	4.5060	ng/ml			
315.0 -> 83.0			9151.65	7.0								
PFHpA	4.558	215931	3655.98		13C4-PFHpA - ISTD	4.558	229357	2.2587	ng/ml			
362.9 -> 169.0			5426.60	17.4								
PFHpS	5.791	40748	8449.44		13C8-PFOS - ISTD	6.289	34885	2.2159	ng/ml			
449.0 -> 98.8			3799.35	50.0								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFHxA	3.838	176320	3460.59		13C5-PFHxA - ISTD	3.836	187225	2.3163	ng/ml			
313.0 -> 118.9			1339.05	3.4								
PFHxS	5.235	42270	4431.02		13C3-PFHxS - ISTD	5.234	47675	1.9640	ng/ml	✔	3	ALB 5/22/24
398.9 -> 99.0			2109.33	46.0								
PFMBA	3.246	219213	79826.88		13C5-PFPeA - ISTD	2.928	343636	4.6333	ng/ml			
PFMPA	2.225	34048	5477.01		13C5-PFPeA - ISTD	2.928	343636	4.5270	ng/ml			
PFNA	5.673	223500	4973.40		13C9-PFNA - ISTD	5.672	122324	2.2723	ng/ml			
463.0 -> 219.0			6232.21	20.7								
PFNS	6.752	29661	6288.58		13C8-PFOS - ISTD	6.289	34885	2.0886	ng/ml			
549.0 -> 98.8			2880.59	52.7								
PFOA	5.157	254262	3211.54		13C8-PFOA - ISTD	5.156	208838	2.4250	ng/ml			
413.0 -> 169.0			6624.39	24.3								
PFOS	6.290	41154	1884.45		13C8-PFOS - ISTD	6.289	34885	2.2698	ng/ml	✔	3	ALB 5/22/24
499.0 -> 99.0			1603.21	48.3								
PFOSA	7.753	52806	35196.35		13C8-PFOSA - ISTD	7.751	54452	2.1964	ng/ml			
497.9 -> 478.0			1157.81	3.0								
PFPeA	2.929	317773	5696.85		13C5-PFPeA - ISTD	2.928	343636	4.5787	ng/ml			
263.0 -> 69.0			318.75	0.3								
PFPeS	4.576	53369	8723.17		13C3-PFHxS - ISTD	5.234	47675	2.1602	ng/ml			
349.0 -> 98.9			3870.60	44.9								
PFTeDA	7.820	132350	11636.31		13C2-PFTeDA - ISTD	7.819	72589	2.2660	ng/ml			
713.0 -> 168.9			4441.51	8.1								
PFTrDA	7.423	148149	8168.03		13C2-PFDoA - ISTD	7.011	94034	2.2311	ng/ml			
663.0 -> 168.9			4906.21	12.7								
PFUnA	6.587	174006	3861.38		13C7-PFUnA - ISTD	6.586	96811	2.2364	ng/ml			
563.0 -> 269.1			7648.49	17.5								
TDCA	6.290	32505	2188.82					-	ng/ml			
499.0 -> 99.0			1784.50	***54.1**								
13C2-8:2FTS	5.934	20912	2493.56		18O2-PFHxS	5.233	56829	5.5981	ng/ml			
529.0 -> 509.0			10422.53	285.6								
13C2-4:2FTS	3.605	35236	3682.81		18O2-PFHxS	5.233	56829	5.1811	ng/ml			

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
329.0 -> 309.0			5338.24	281.2								
13C2-6:2FTS	4.941	24616	3413.41		18O2-PFHxS	5.233	56829	5.3565	ng/ml			
429.0 -> 409.0			6214.33	354.1								
13C5-PFHxA	3.836	187225	25316.49		13C2-PFHxA	3.837	220494	2.0606	ng/ml			
318.0 -> 120.0			756.87	1.9								
13C6-PFDA	6.140	116764	11272.42		13C2-PFDA	6.140	139897	1.0578	ng/ml			
13C7-PFUnA	6.586	96811	13121.88		13C2-PFDA	6.140	139897	1.0833	ng/ml			
13C8-PFOA	5.156	208838	29795.24		13C4-PFOA	5.157	36526	2.0855	ng/ml			
13C8-PFOS	6.289	34885	4111.07		13C4-PFOS	6.290	48096	2.0175	ng/ml			
507.0 -> 99.0			3576.83	52.2								
13C8-PFOSA	7.751	54452	78929.41		13C4-PFOS	6.290	48096	1.7906	ng/ml			
13C9-PFNA	5.672	122324	10069.57		13C5-PFNA	5.673	174255	1.0294	ng/ml			
13C5-PFPeA	2.928	343636	15192.69		13C2-PFHxA	3.837	220494	4.2200	ng/ml			
13C2-PFDoA	7.011	94034	11008.56		13C2-PFDA	6.140	139897	1.0195	ng/ml			
13C4-PFHpA	4.558	229357	26666.29		13C2-PFHxA	3.837	220494	2.2567	ng/ml			
13C4-PFBA	1.707	531624	99467.71		13C3-PFBA	1.701	297853	8.2208	ng/ml			
13C3-PFHxS	5.234	47675	12873.07		18O2-PFHxS	5.233	56829	2.0543	ng/ml			
402.0 -> 99.0			5290.79	50.5								
13C3-PFBS	3.757	64677	16398.19		18O2-PFHxS	5.233	56829	2.1058	ng/ml			
301.9 -> 98.9			9386.10	35.5								
13C3-HFPODA	4.111	215606	50456.60		13C2-PFHxA	3.837	220494	8.4834	ng/ml			
287.0 -> 185.0			10517.54	46.9								
13C2-PFTeDA	7.819	72589	16540.97		13C2-PFDA	6.140	139897	0.9140	ng/ml			
D9-NEtFOSE	9.394	163019	60167.28		13C4-PFOS	6.290	48096	12.8907	ng/ml			
D3-NMeFOSA	9.193	9309	3074.36		13C4-PFOS	6.290	48096	0.9543	ng/ml			
D3-NMeFOSAA	6.211	181468	25270.84		13C4-PFOS	6.290	48096	5.8243	ng/ml			
D5-NEtFOSA	9.546	9188	5694.11		13C4-PFOS	6.290	48096	0.9030	ng/ml			
D5-NEtFOSAA	6.414	75764	6141.09		13C4-PFOS	6.290	48096	4.8056	ng/ml			
D7-NMeFOSE	9.057	162317	35666.58		13C4-PFOS	6.290	48096	13.7341	ng/ml			

11Cl-PF3OUdS



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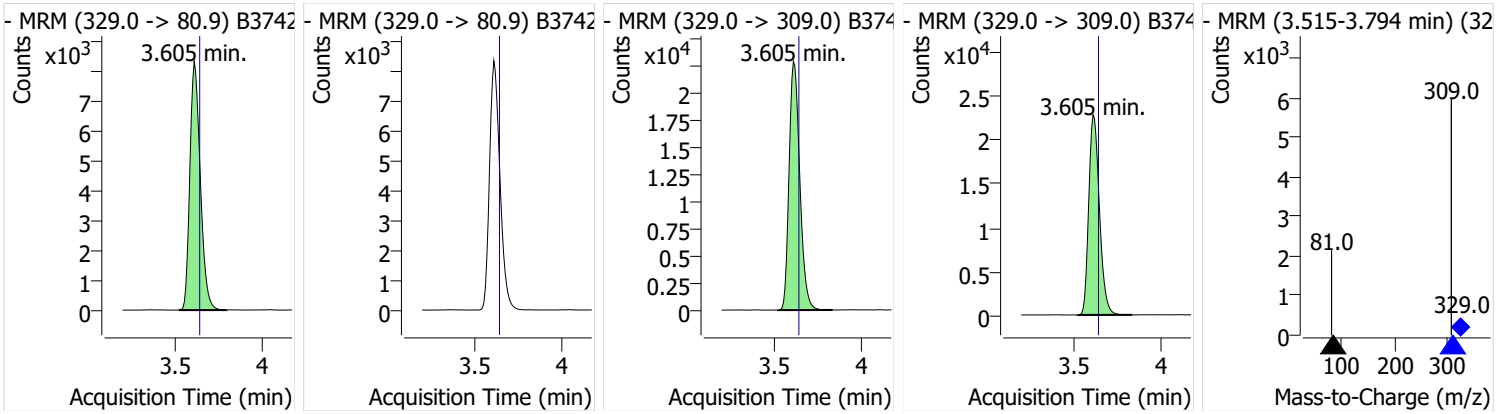

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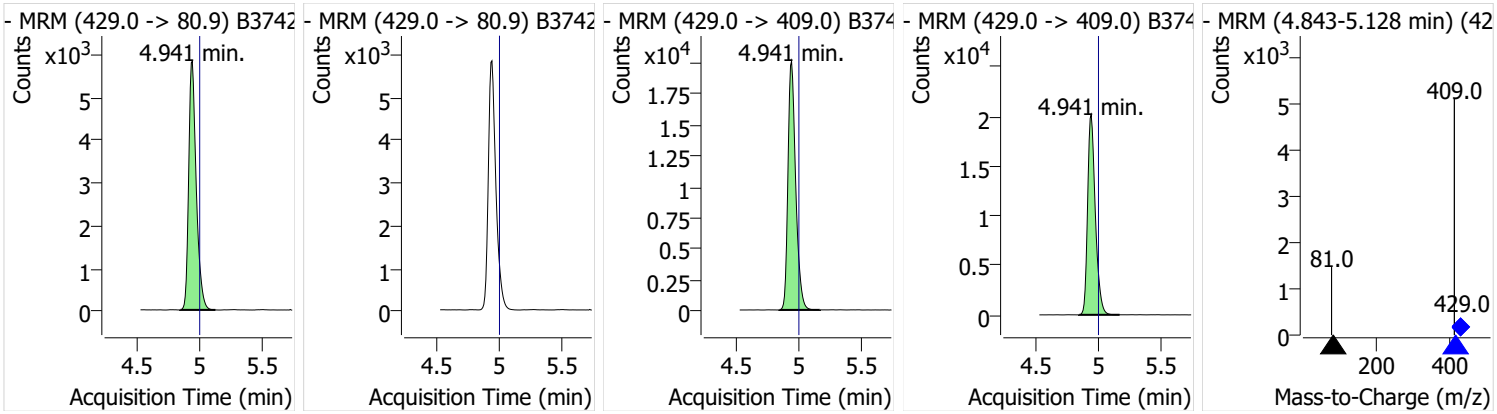

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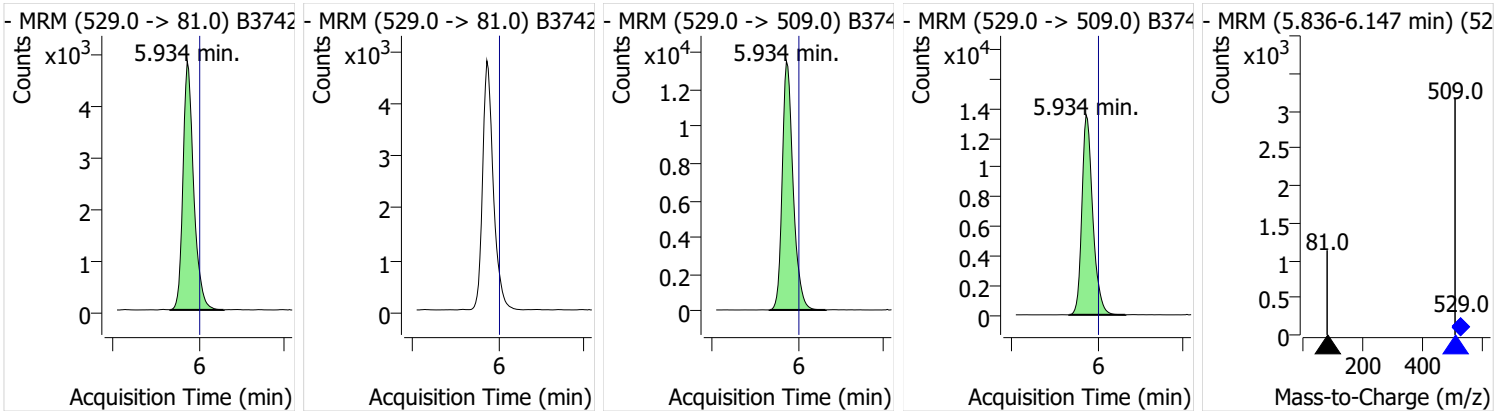
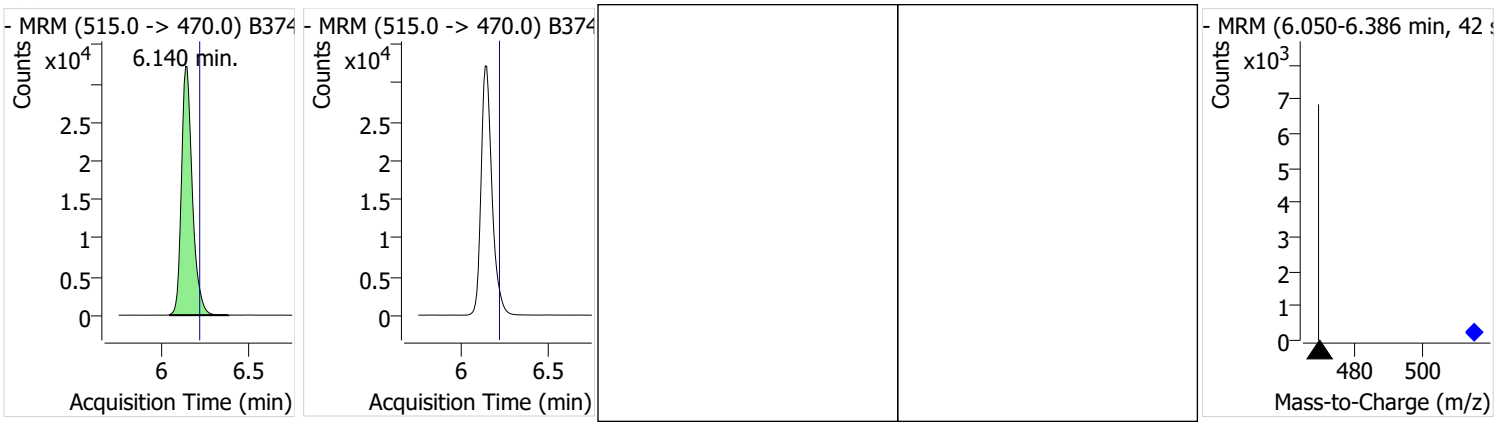


13C2-PFDA



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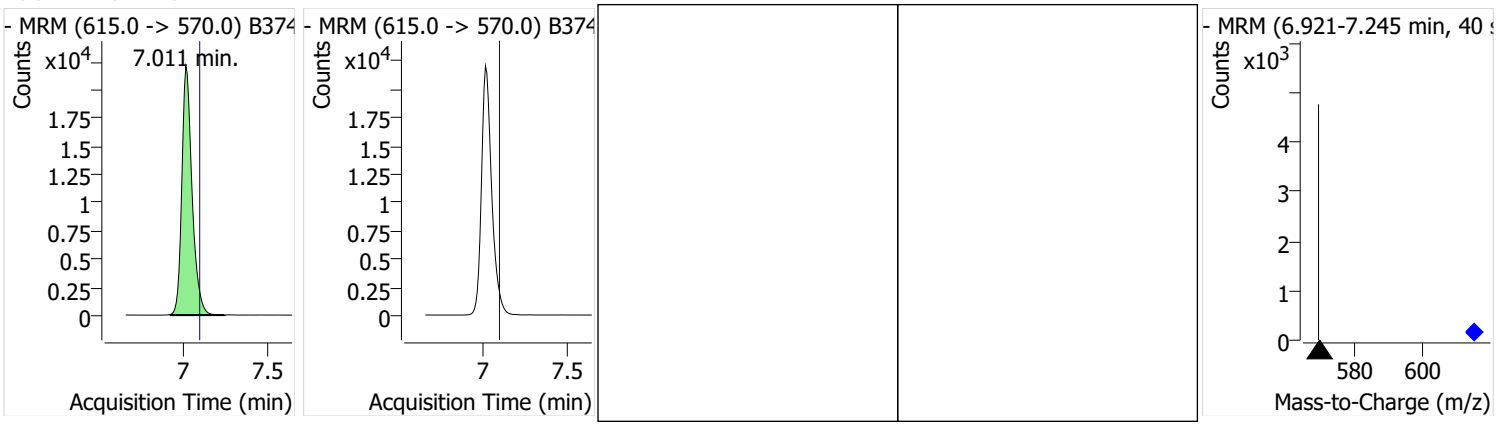
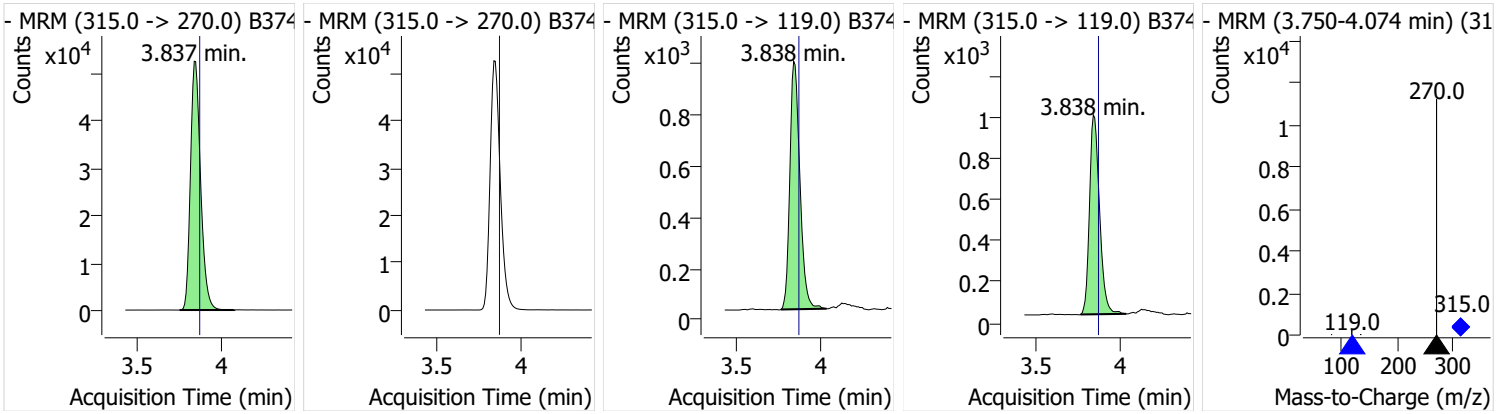
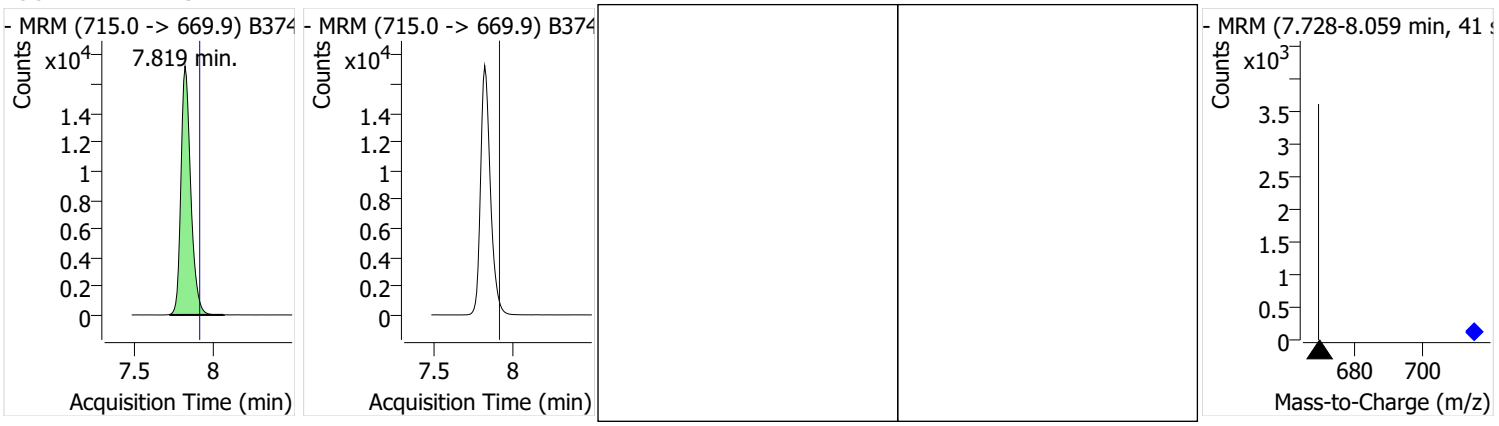


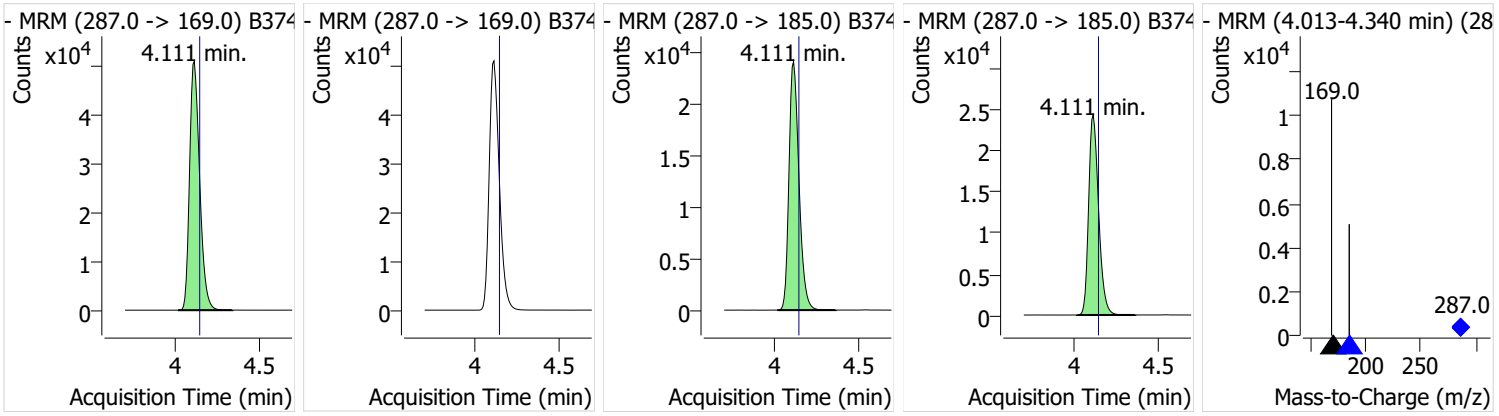
13C2-PFHxA



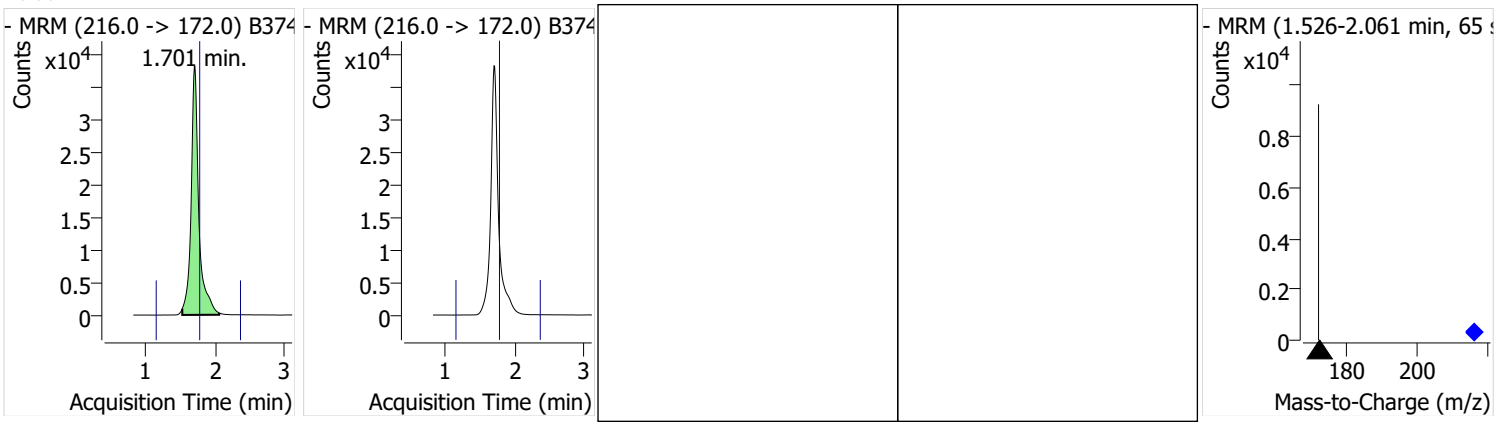
13C2-PFTeDA - ISTD



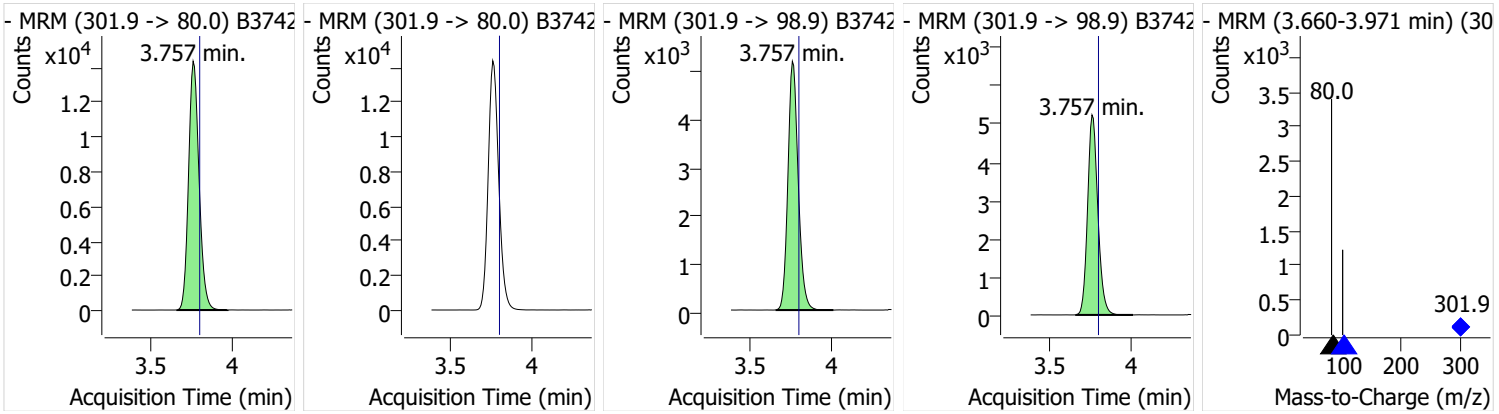
13C3-HFPODA - ISTD



13C3-PFBA



13C3-PFBS - ISTD



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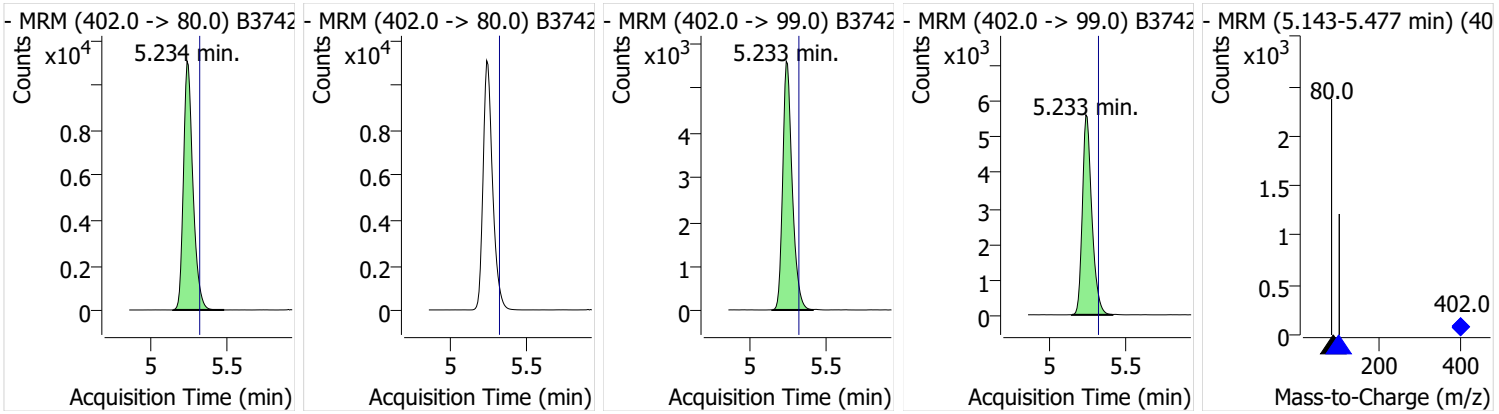
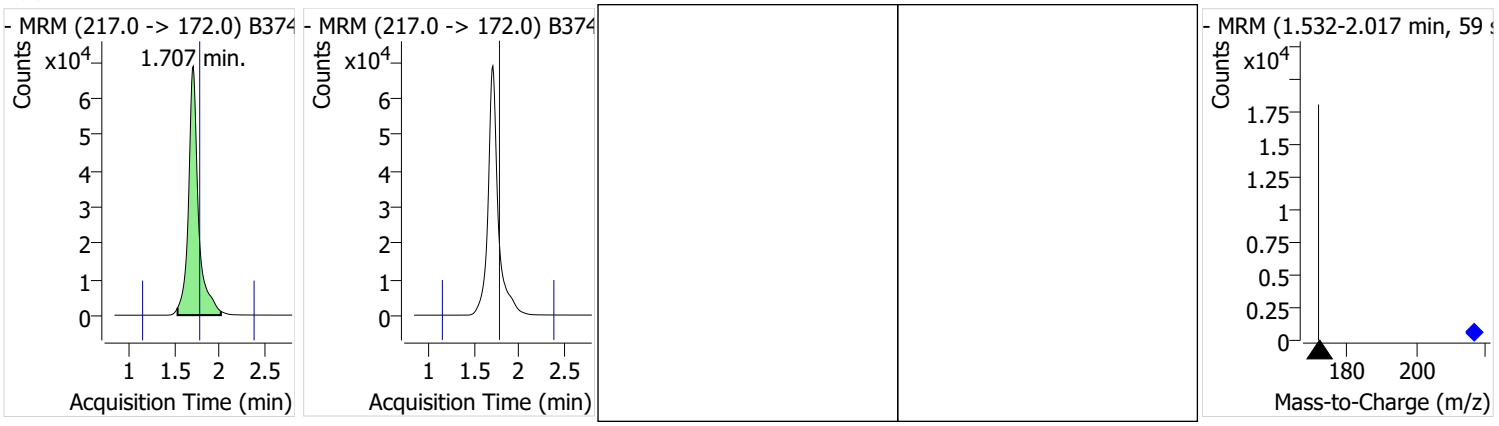
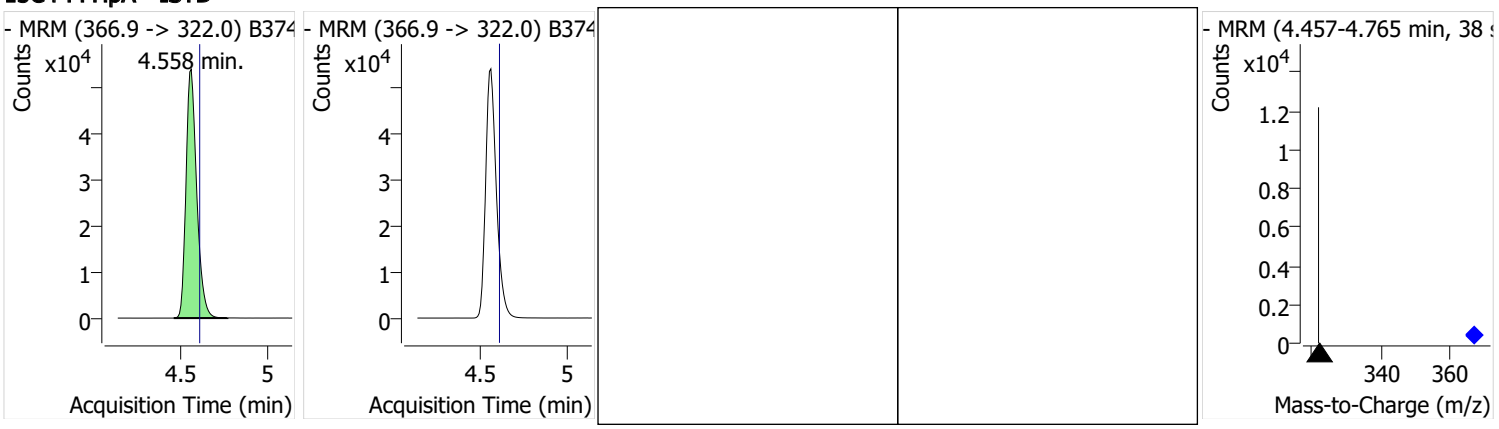


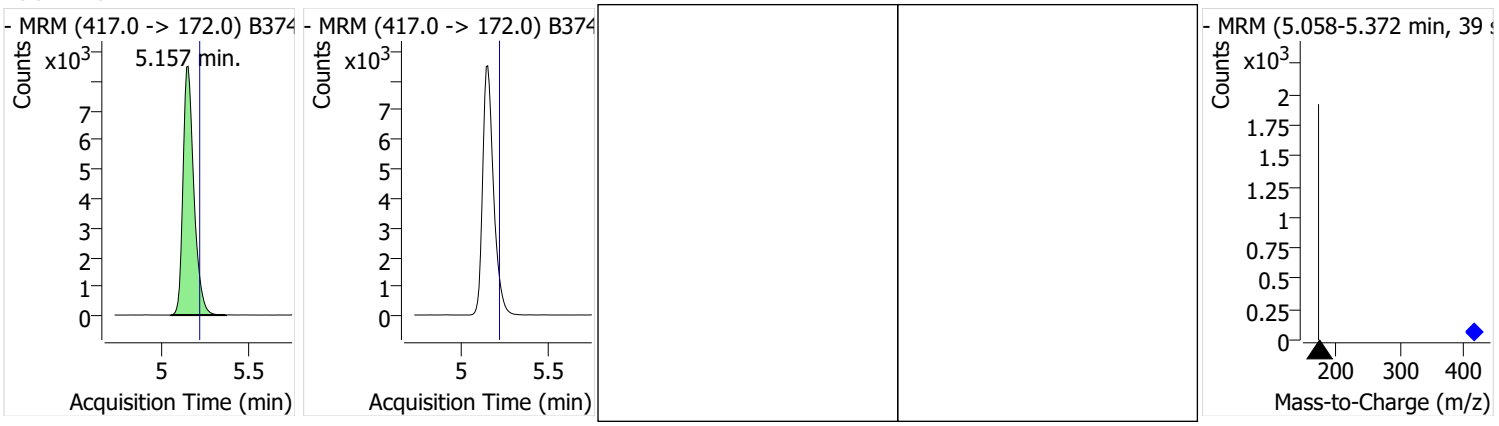
13C4-PFBA - ISTD



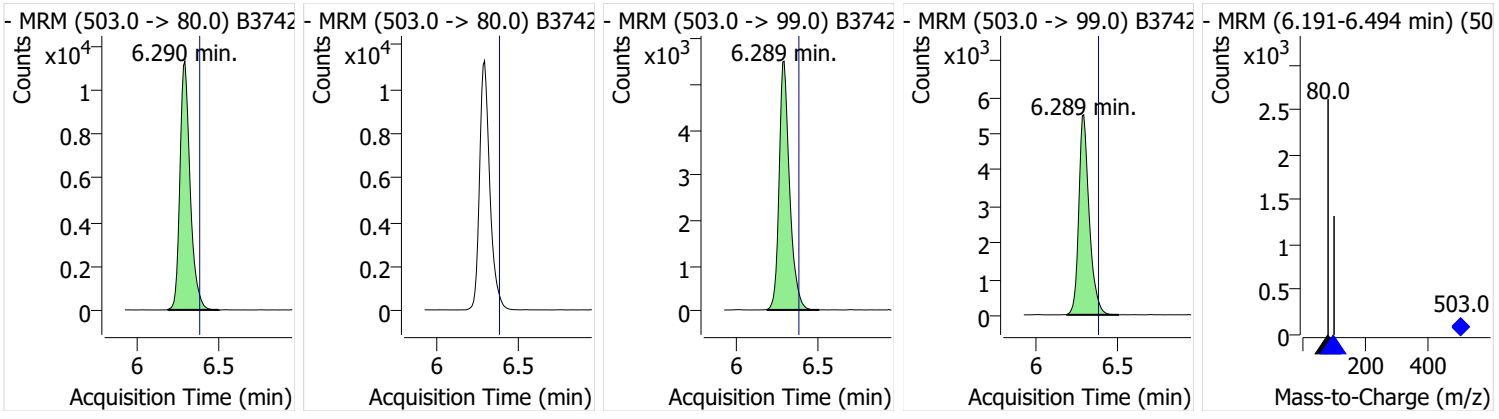
13C4-PFHpA - ISTD



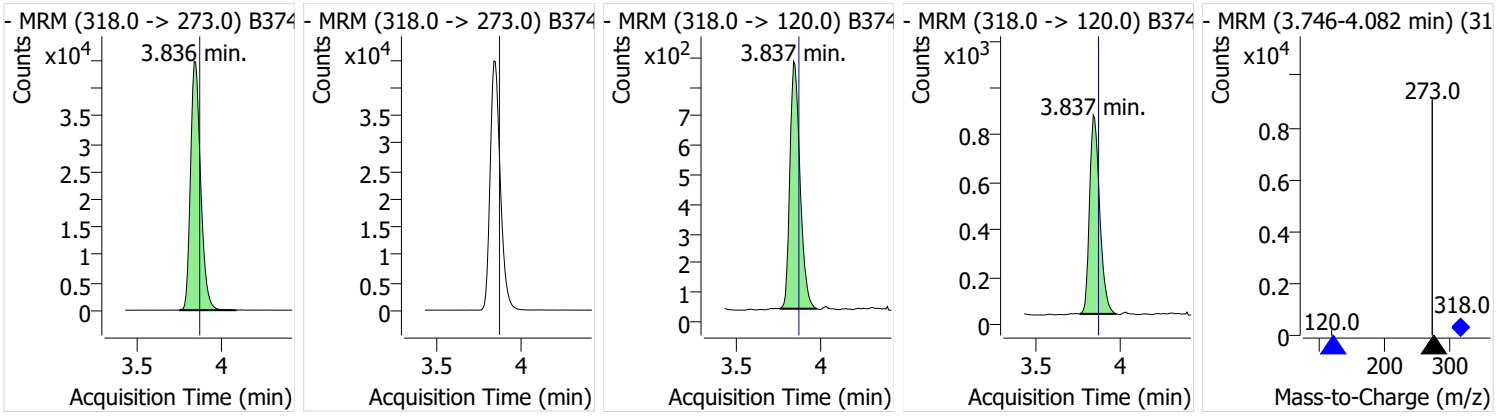
13C4-PFOA



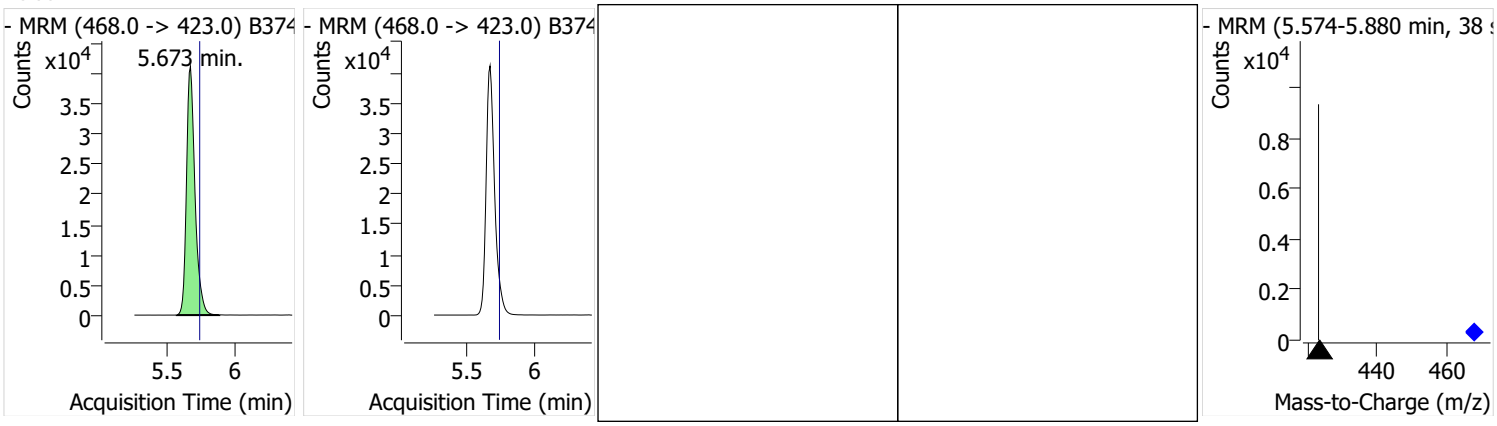
13C4-PFOS



13C5-PFHxA - ISTD

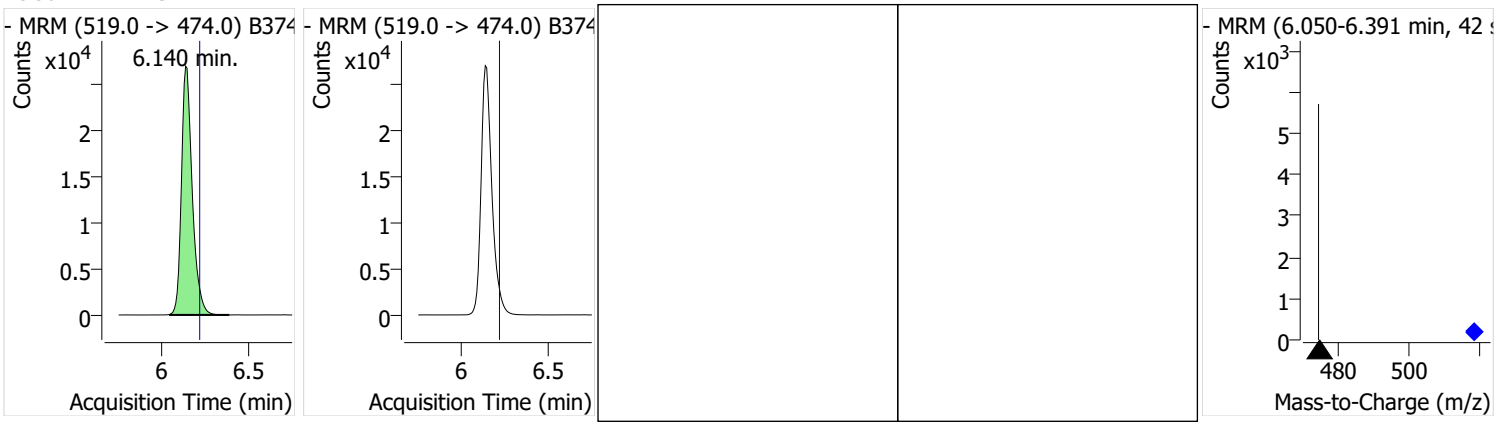


13C5-PFNA

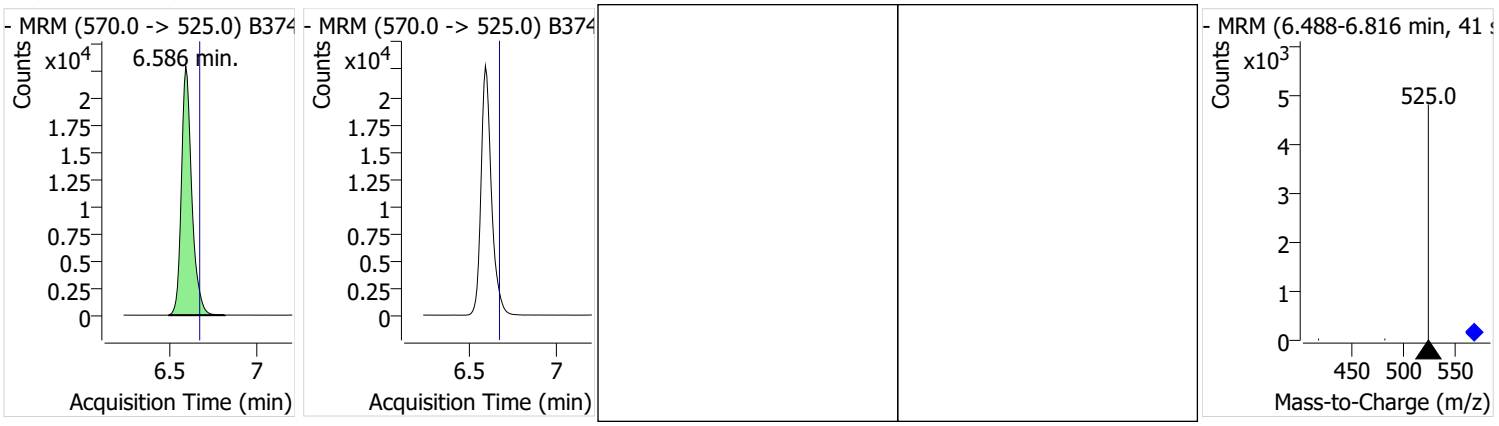


13C5-PFPeA - ISTD

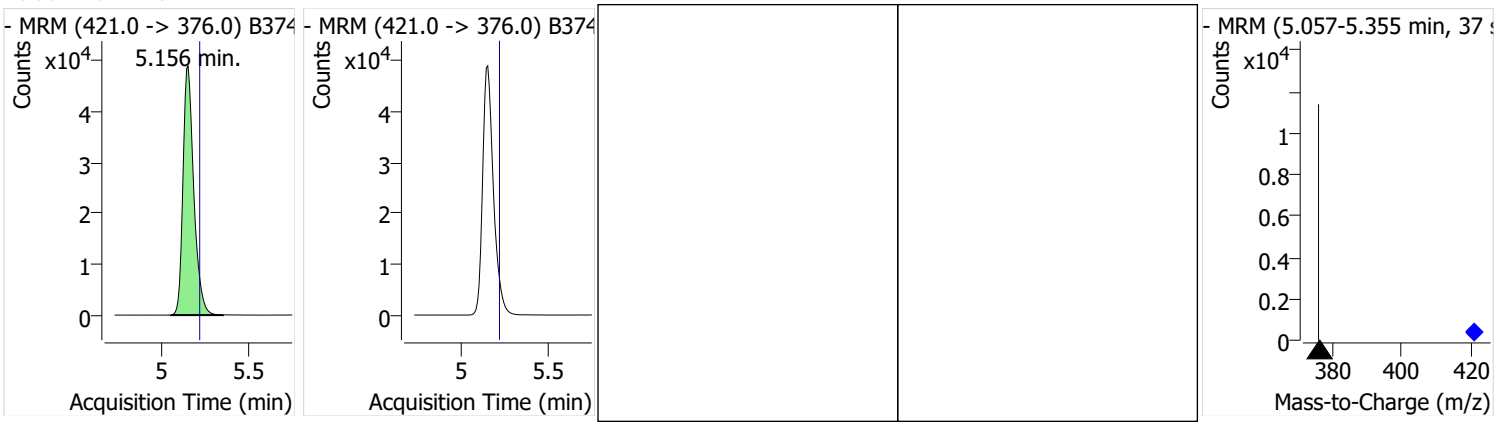
13C6-PFDA - ISTD



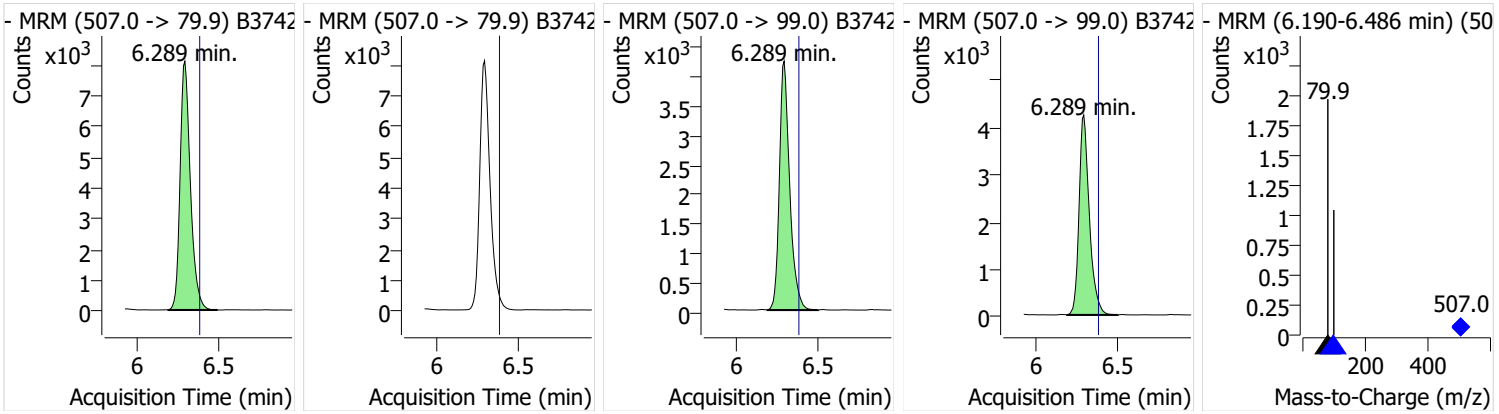
13C7-PFUnA - ISTD



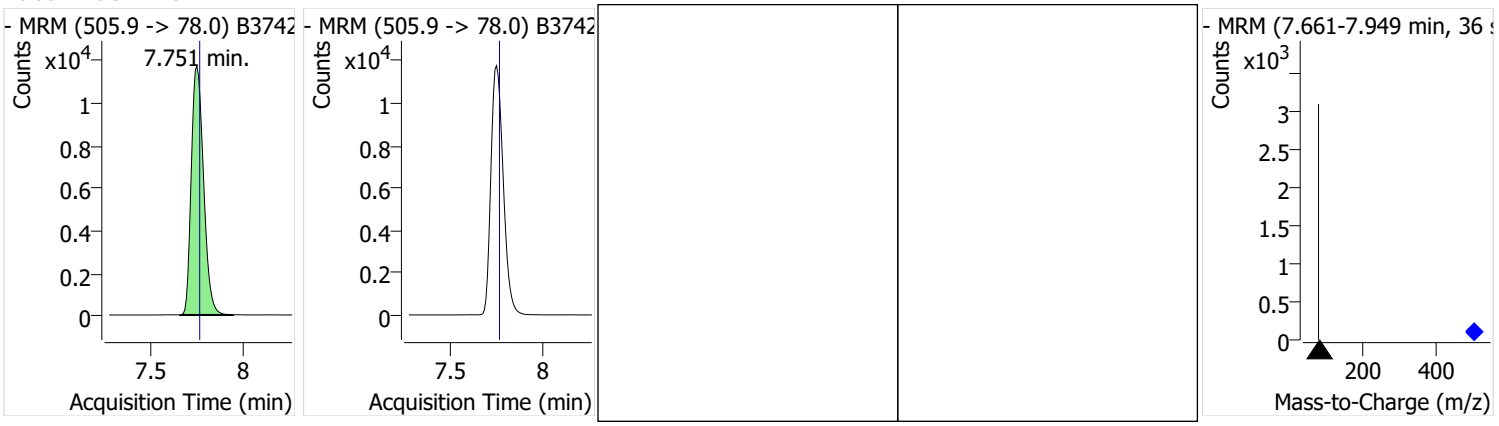
13C8-PFOA - ISTD



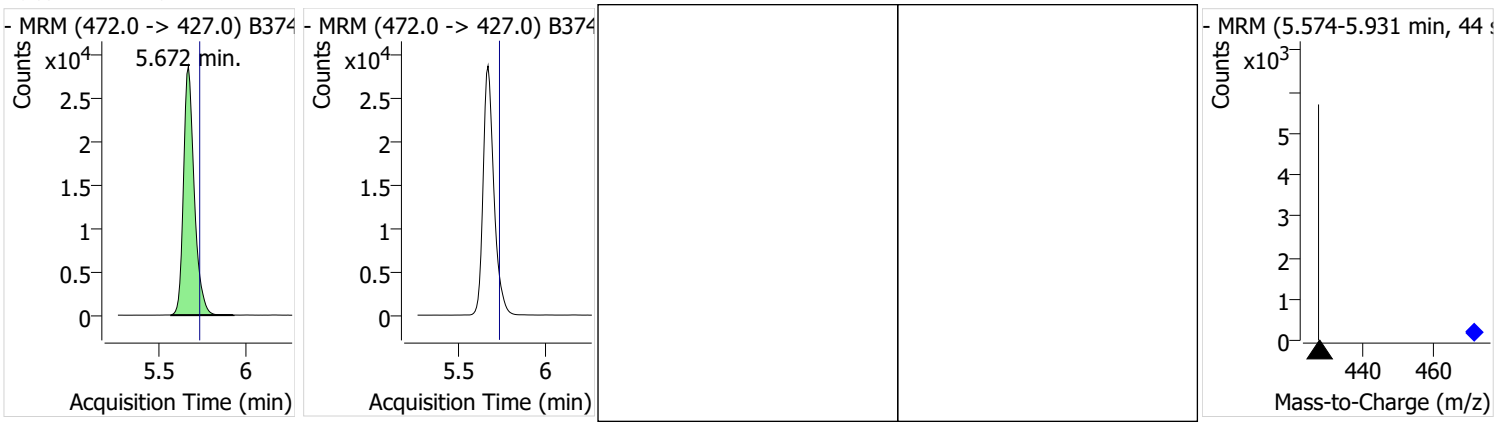
13C8-PFOS - ISTD



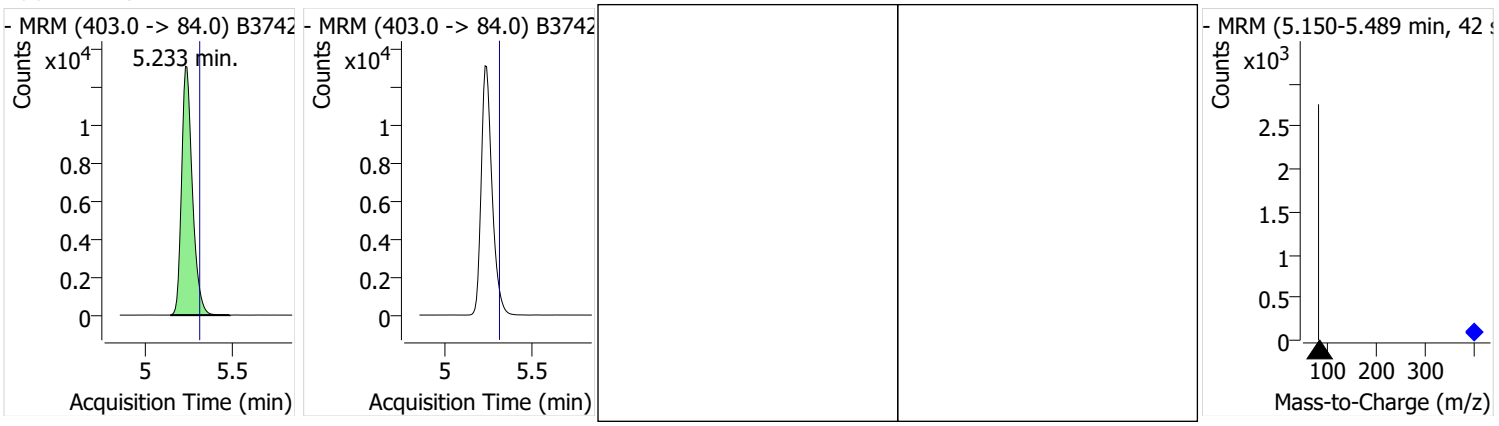
13C8-PFOSA - ISTD



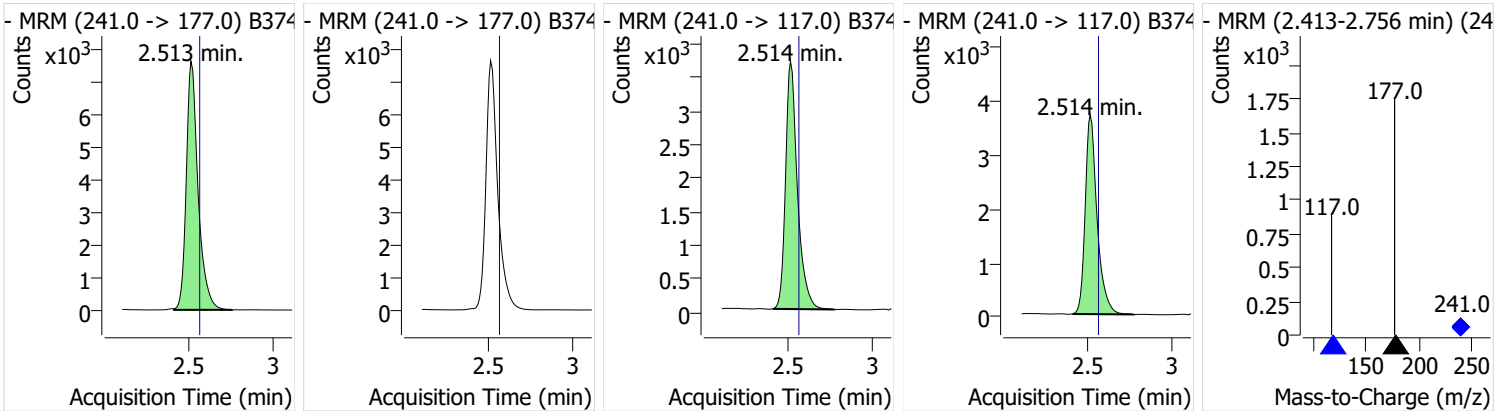
13C9-PFNA - ISTD



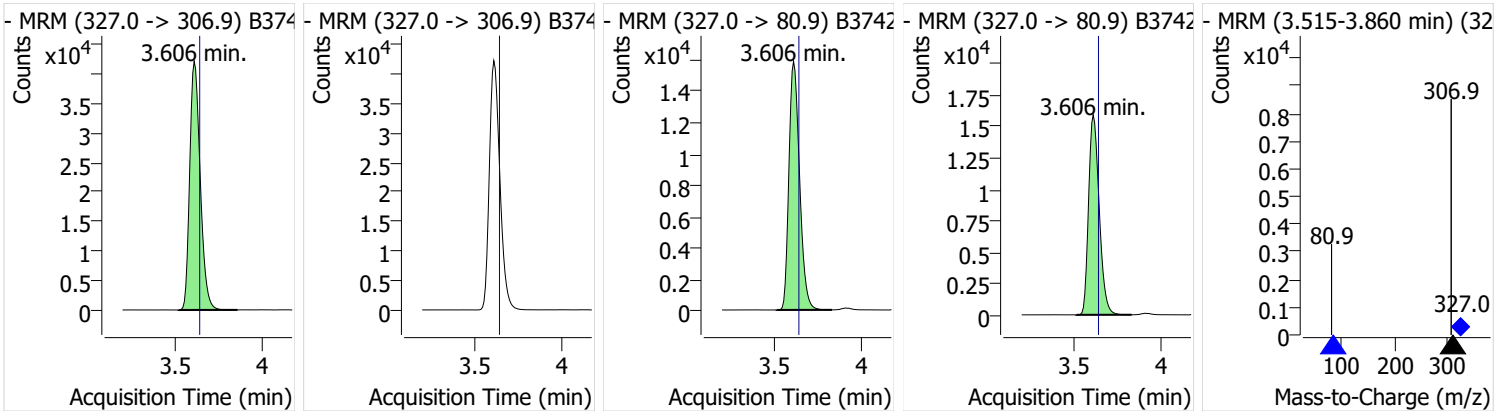
18O2-PFHxS



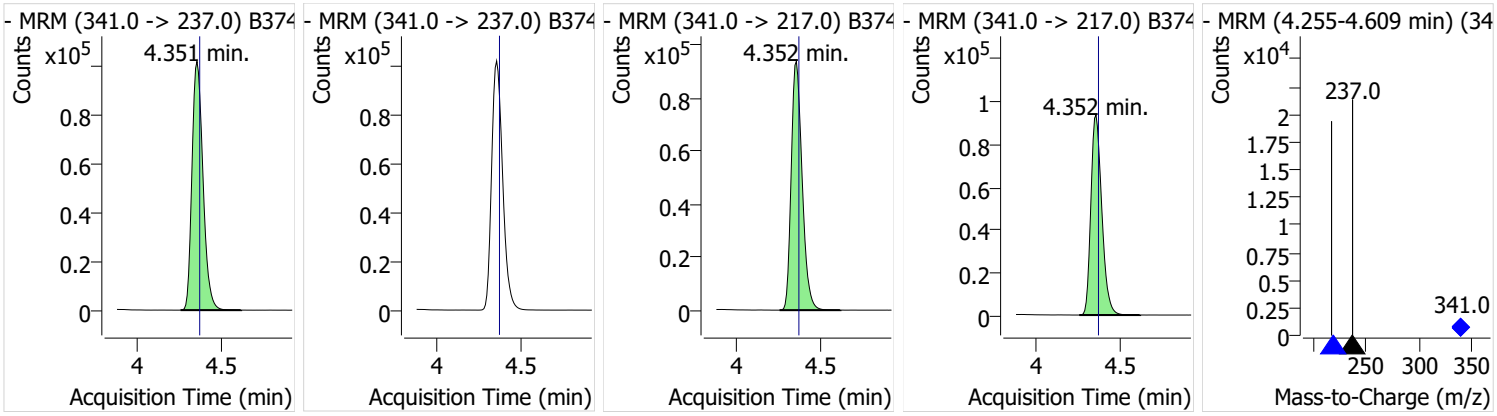
3:3FTCA



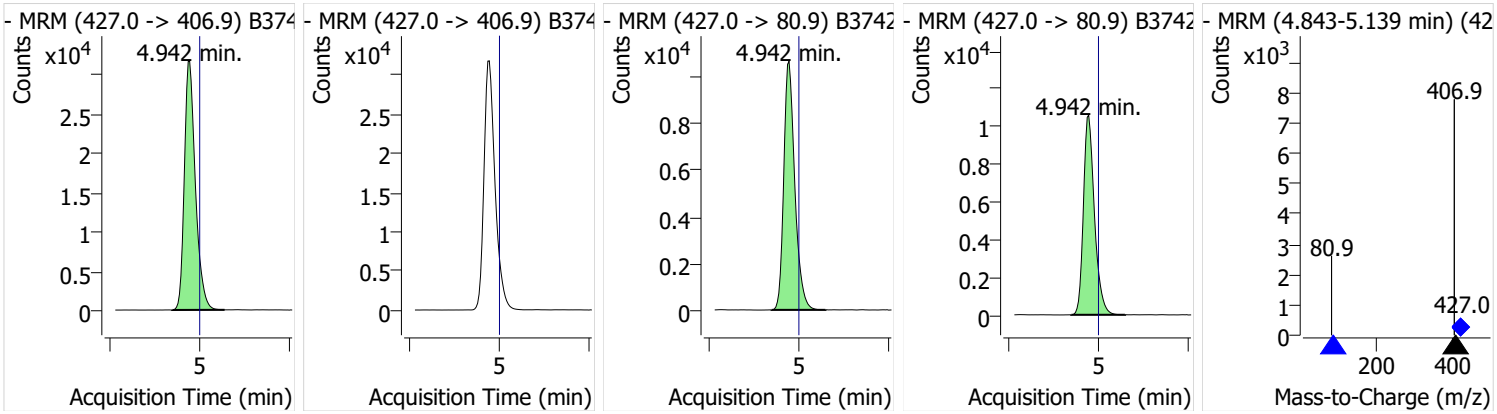
4:2FTS



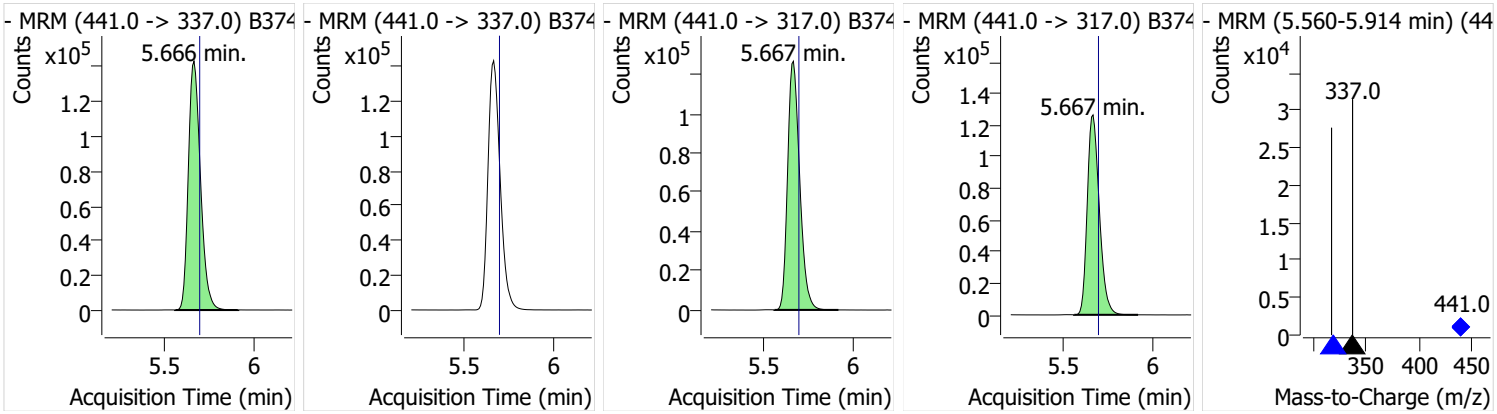
5:3FTCA



6:2FTS



7:3FTCA



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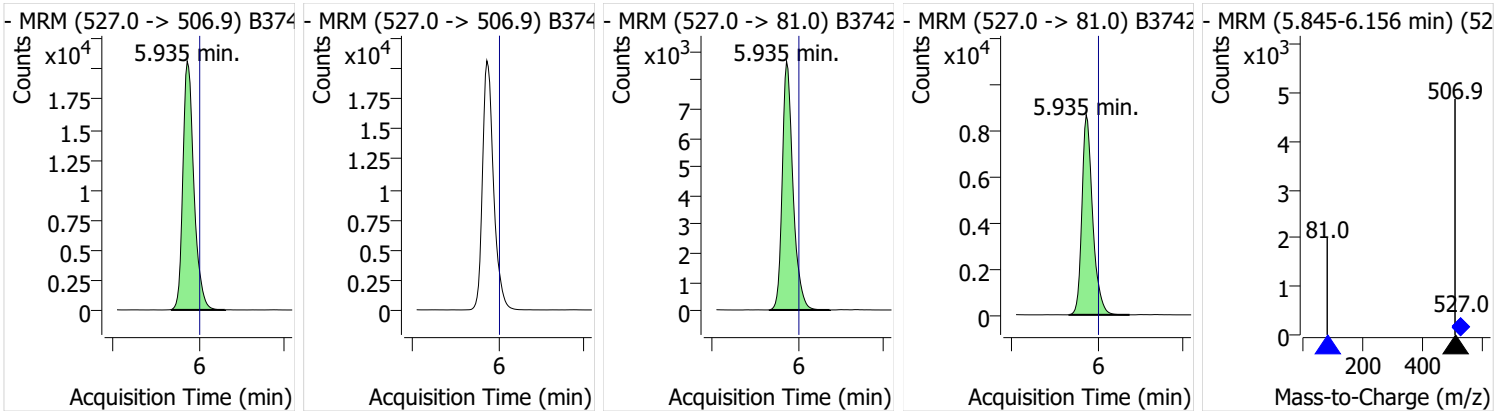
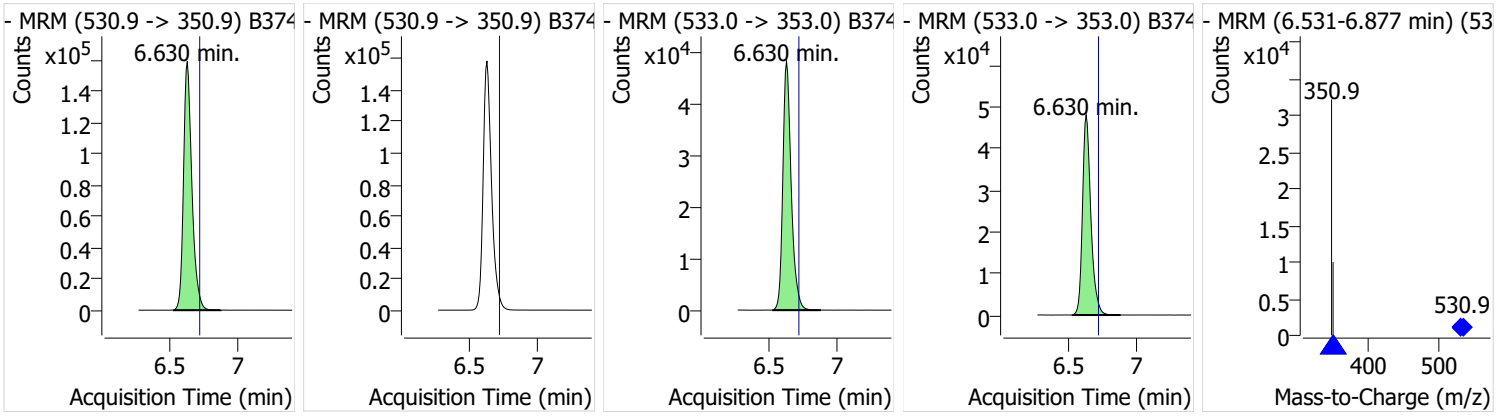


9Cl-PF3ONS



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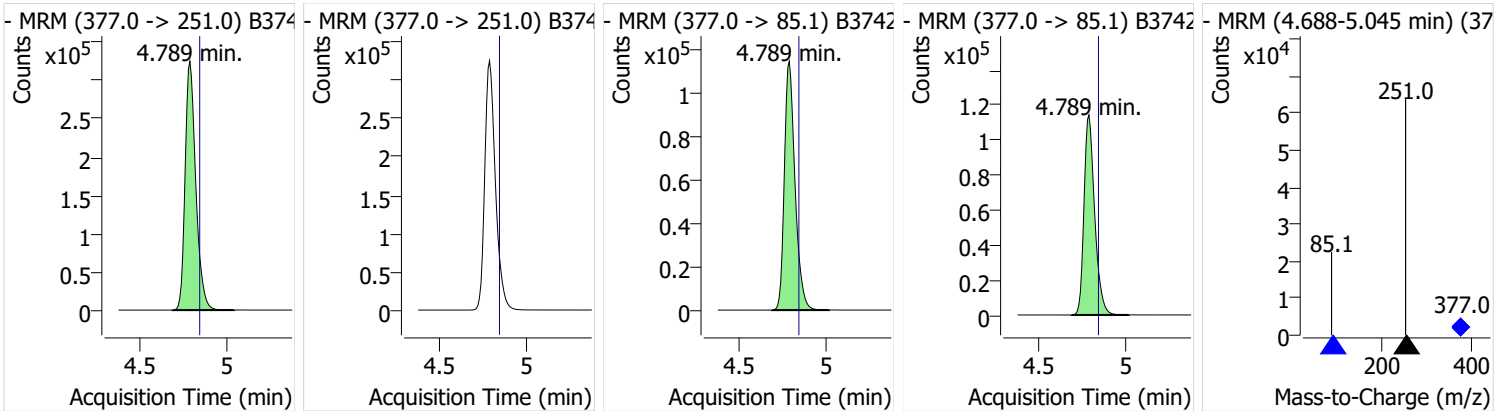
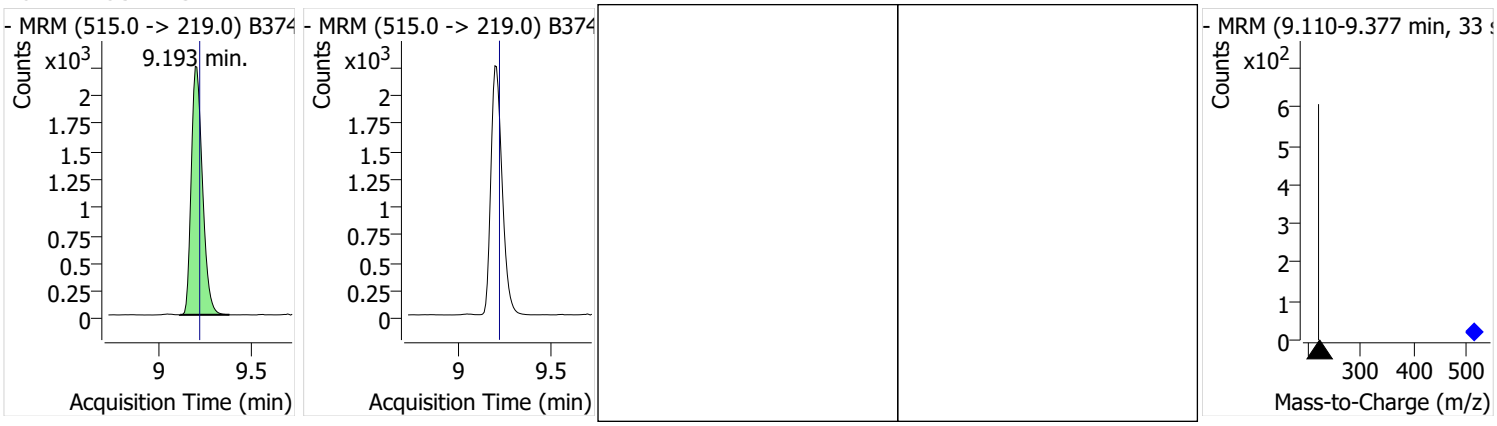
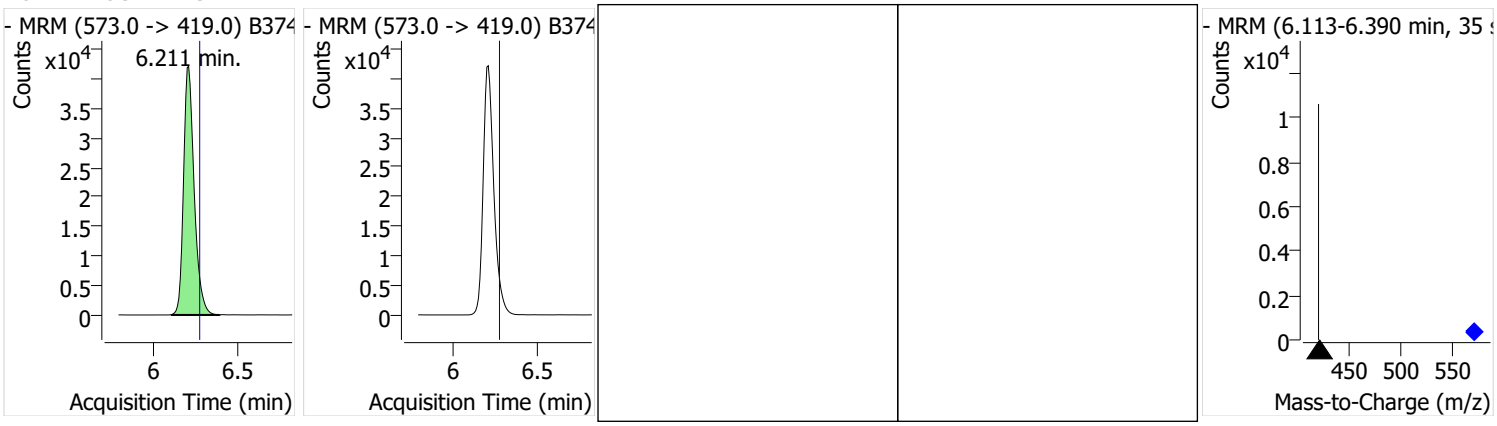


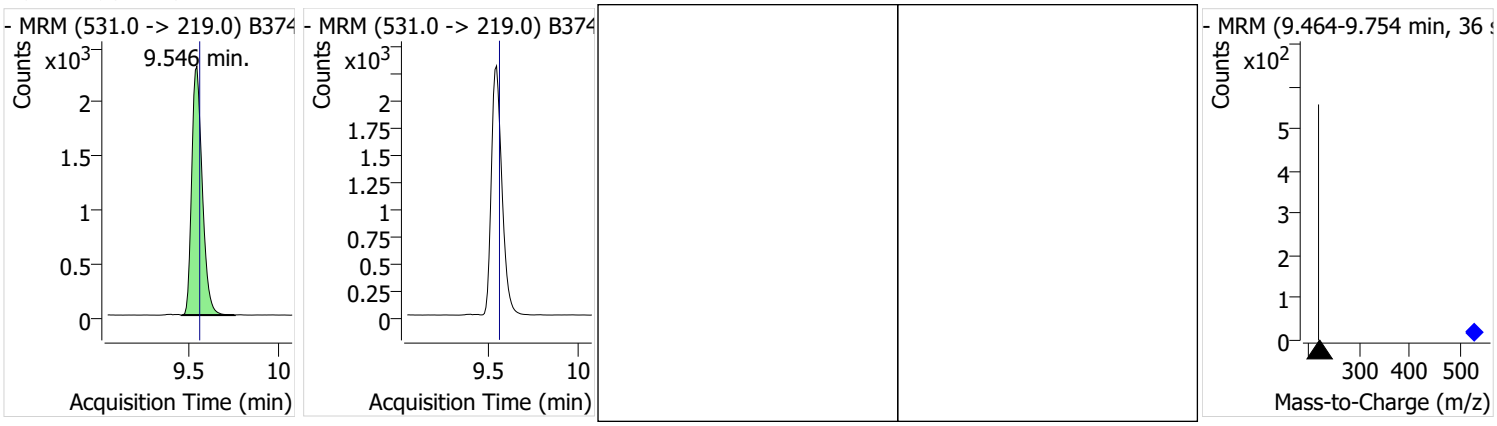
D3-NMeFOSA - ISTD



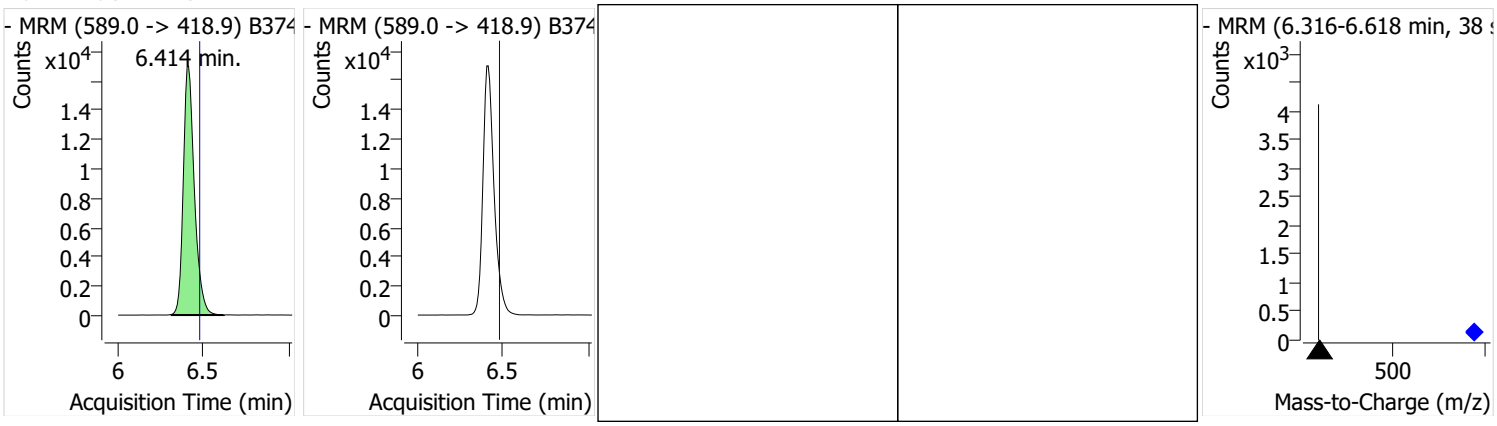
D3-NMeFOSAA - ISTD



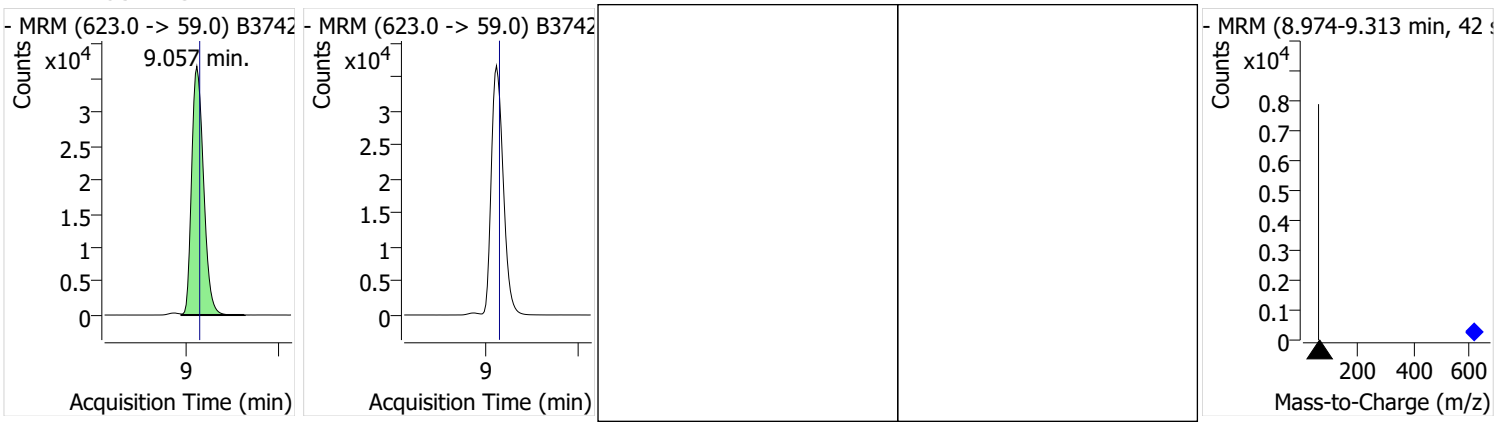
D5-NEtFOSA - ISTD



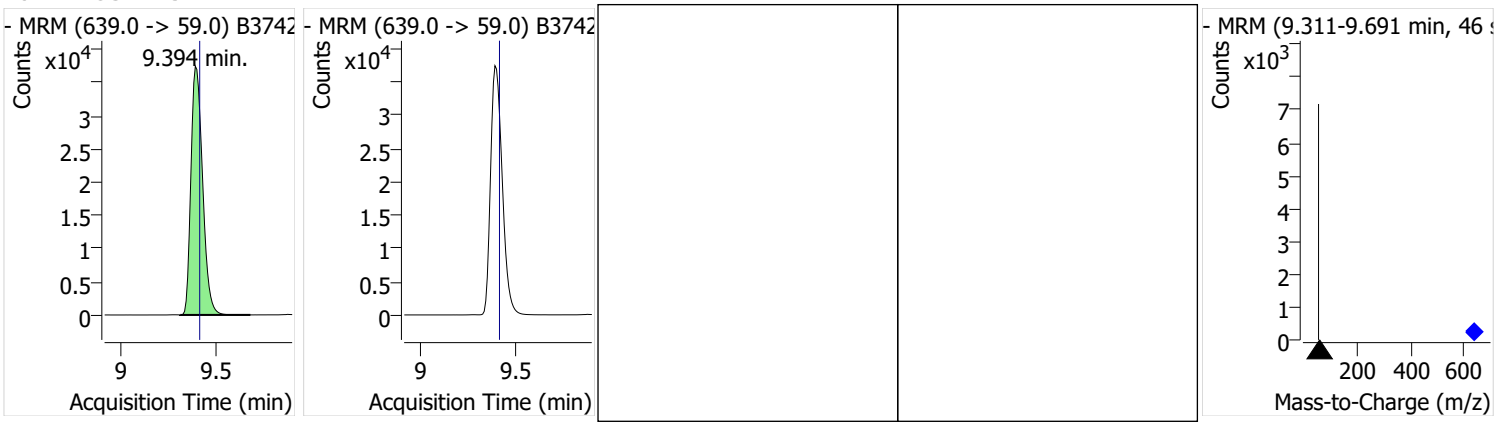
D5-NEtFOSAA - ISTD



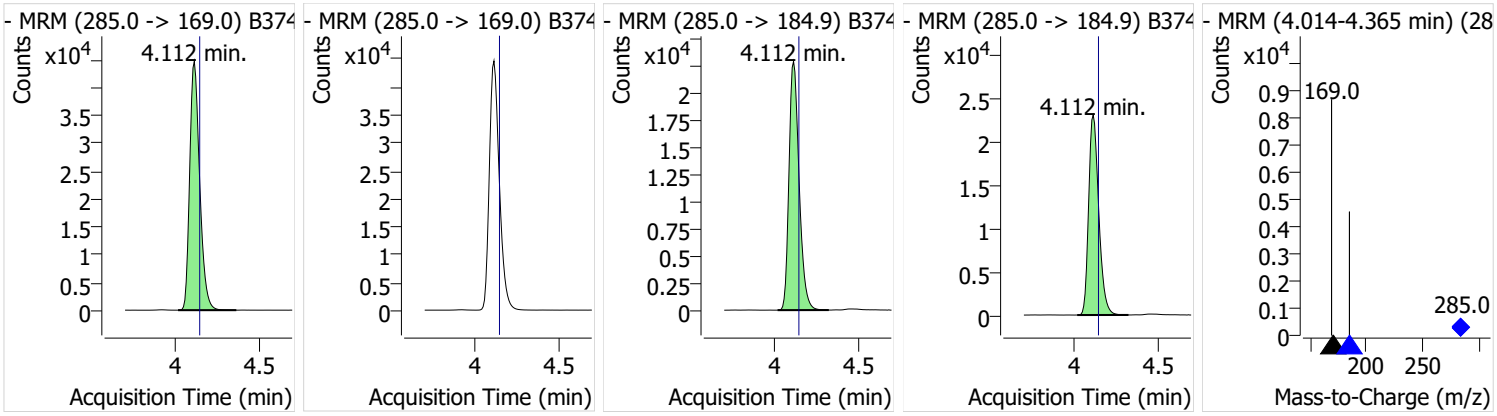
D7-NMeFOSE - ISTD



D9-NEtFOSE - ISTD



HFPO-DA



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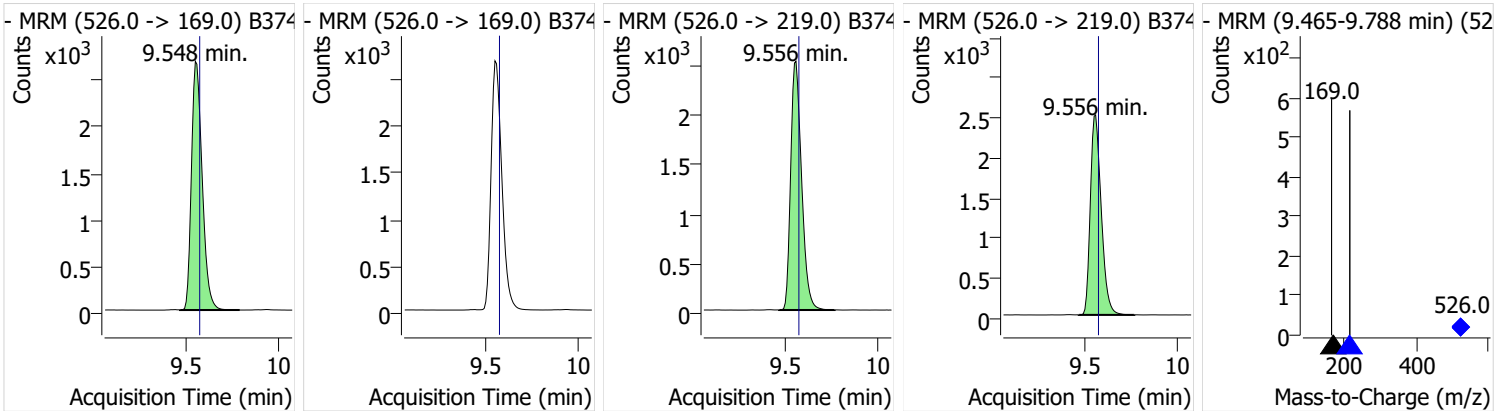

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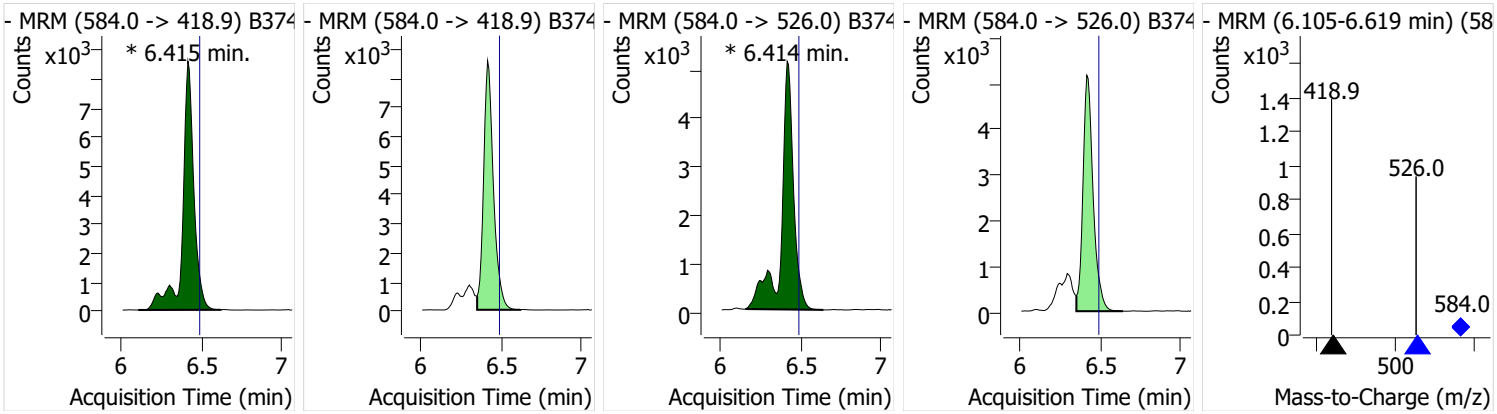

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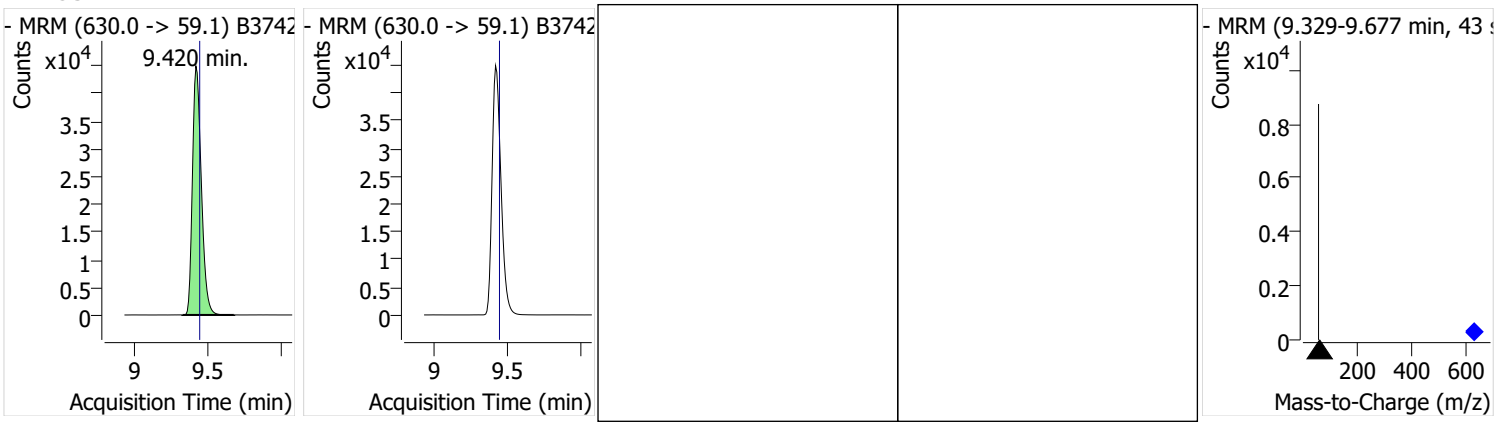

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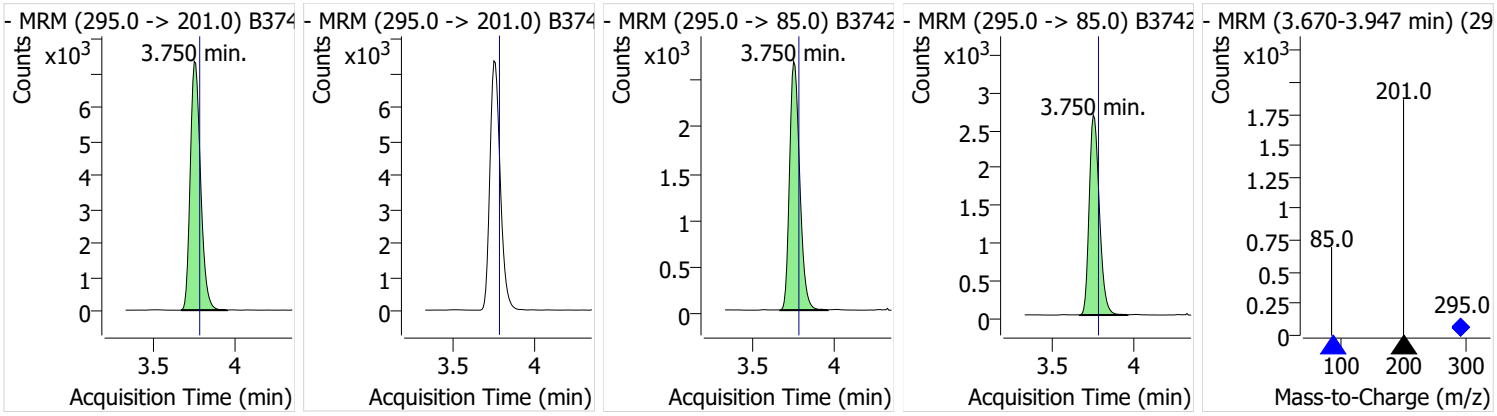

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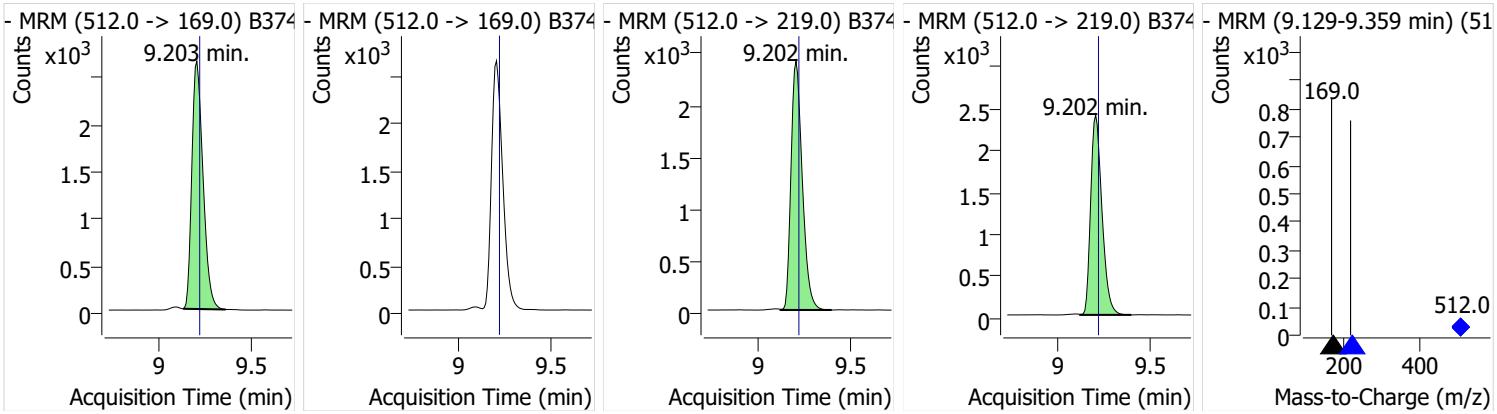

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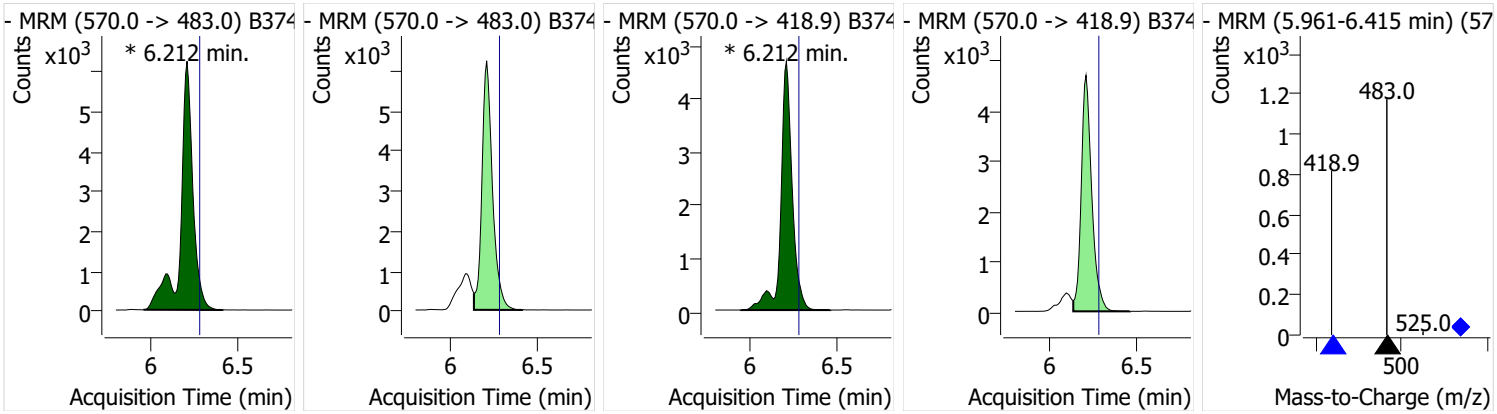

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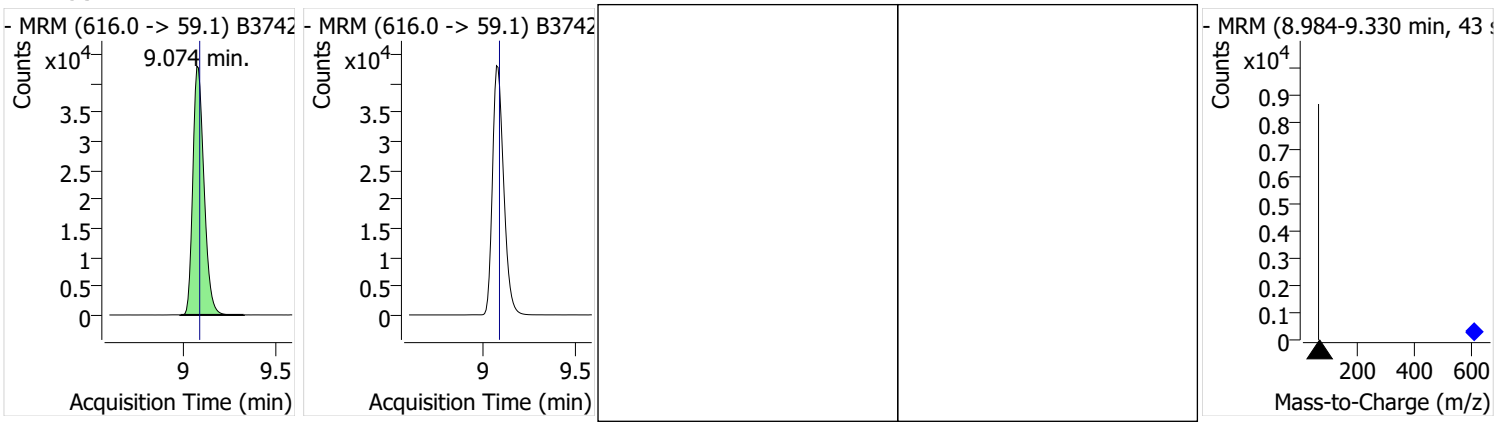

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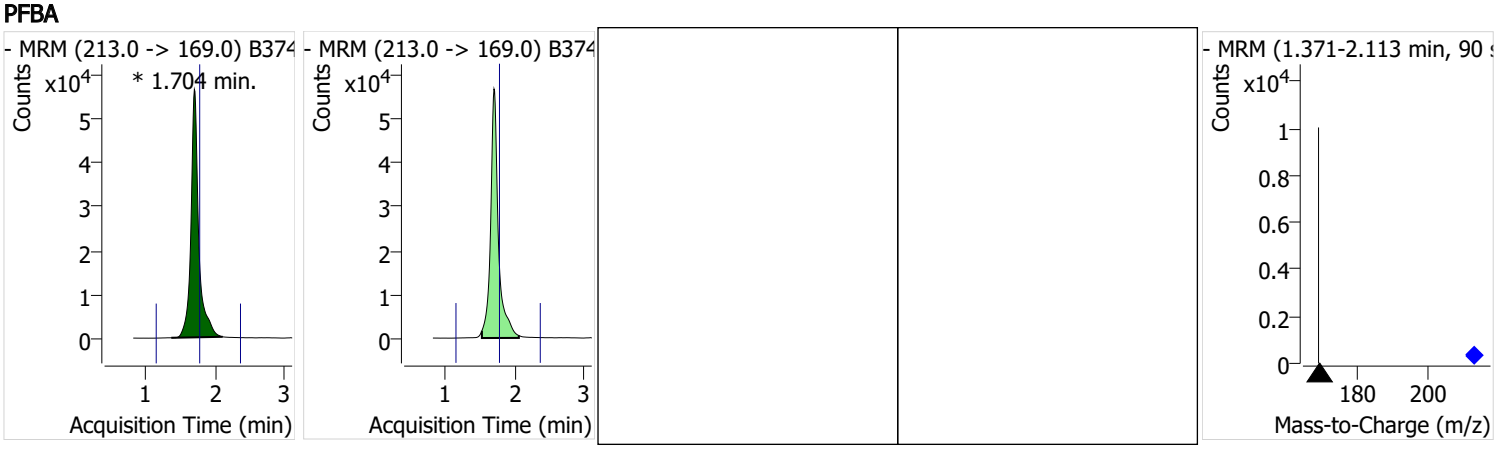

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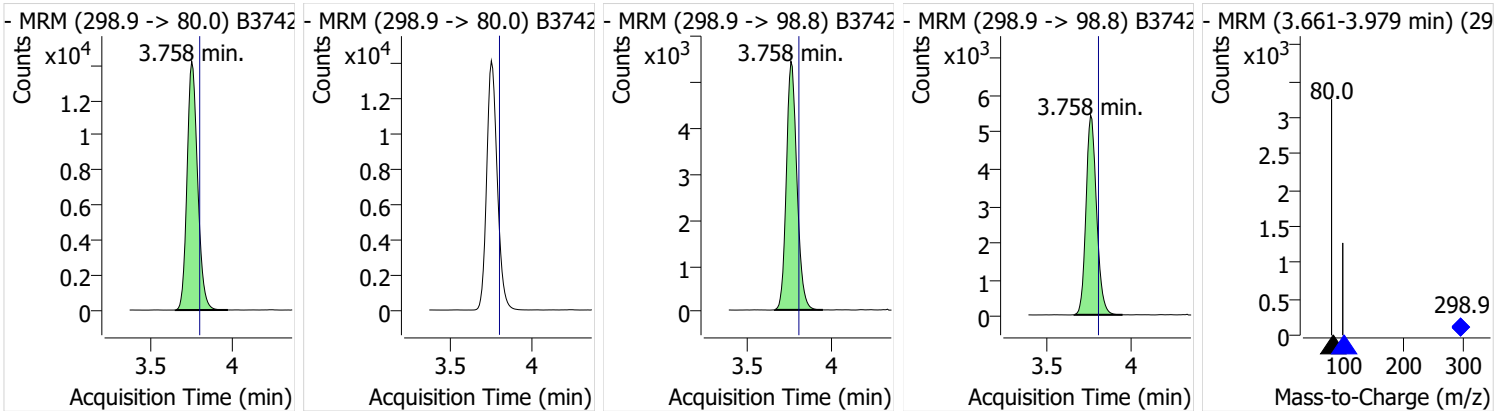

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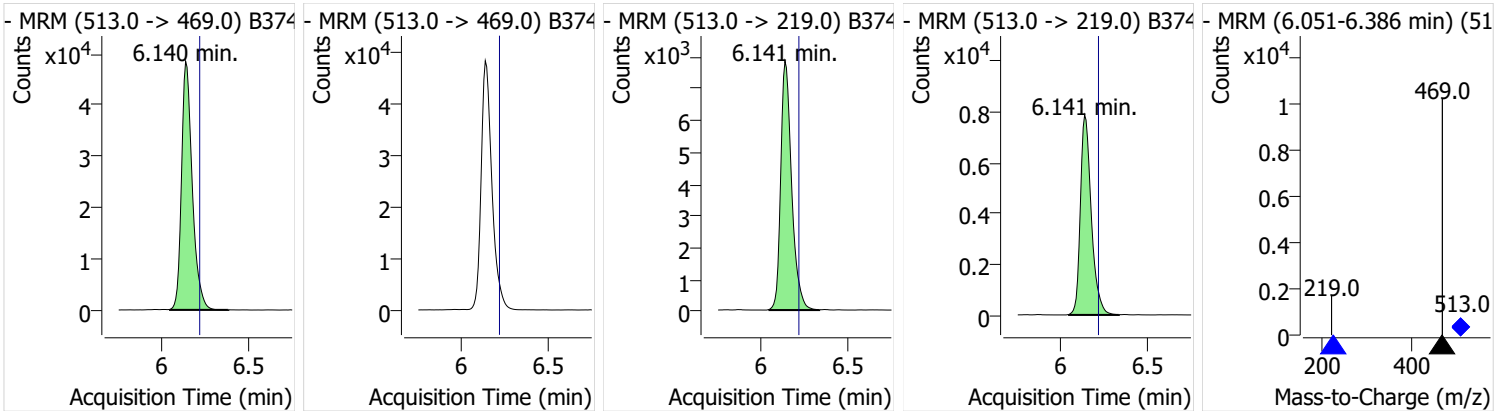

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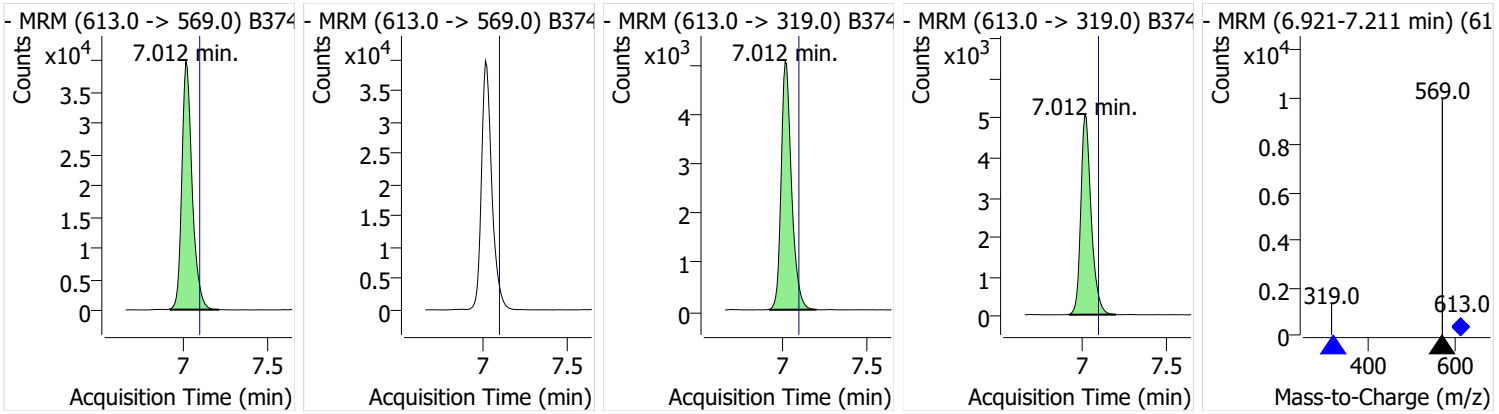

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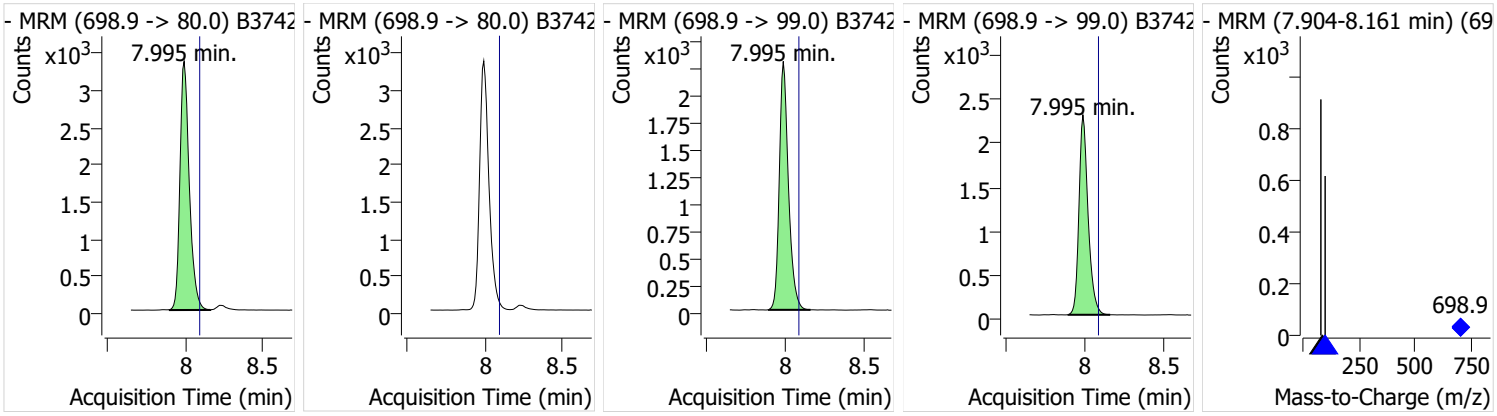

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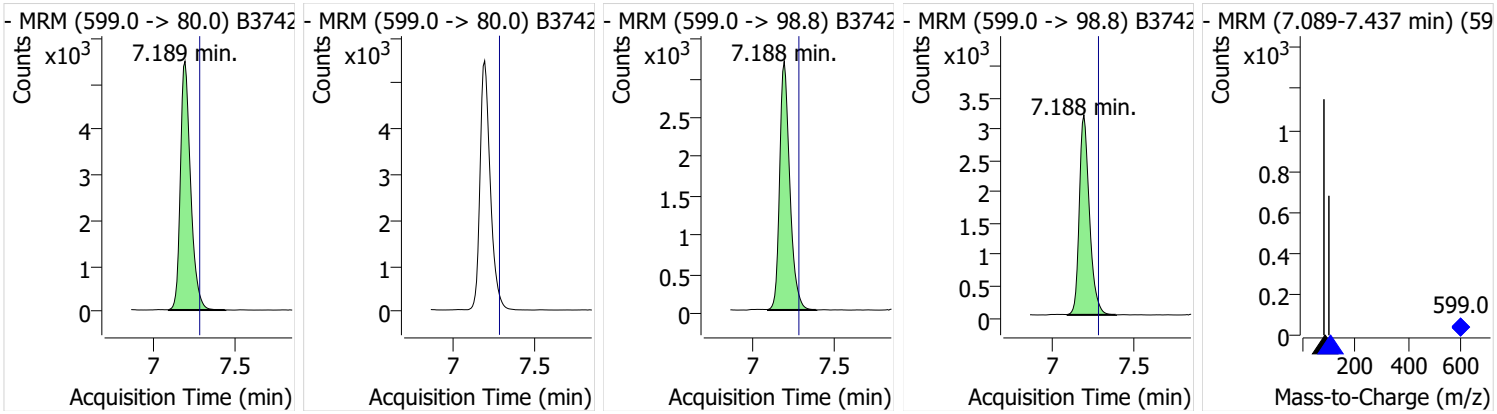

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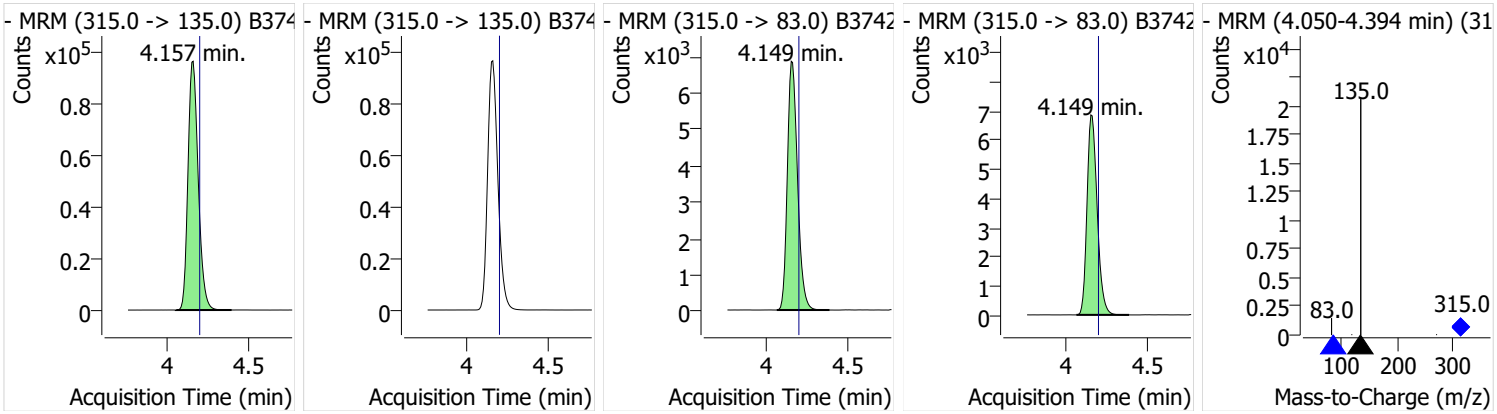
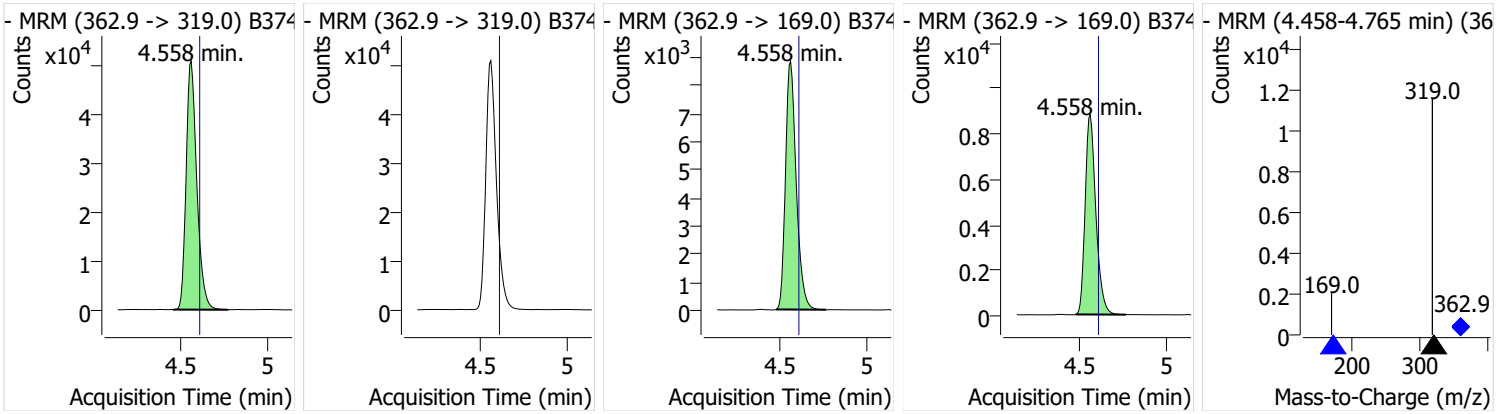


PFHpA



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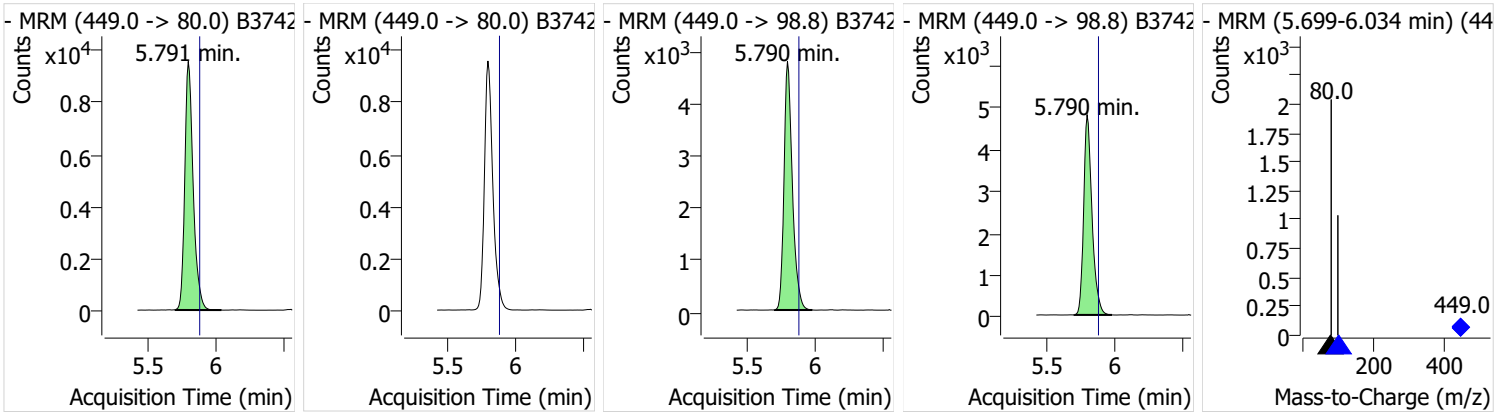

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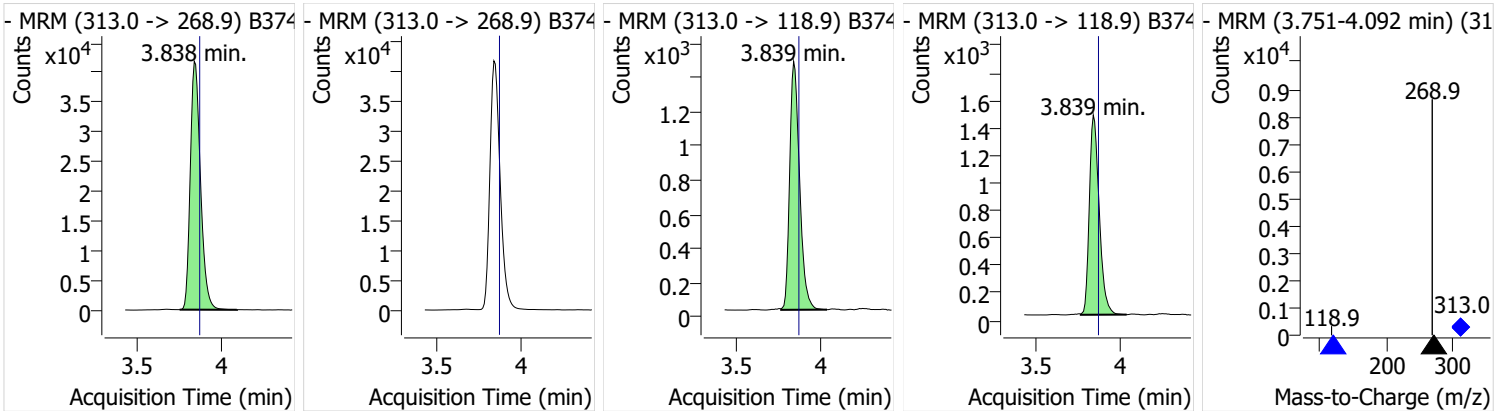

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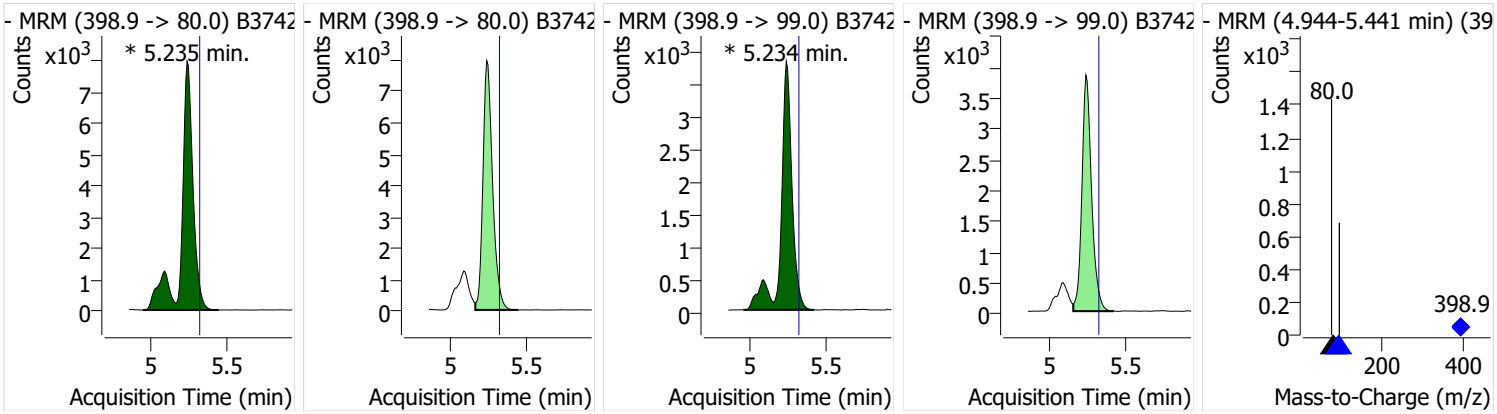

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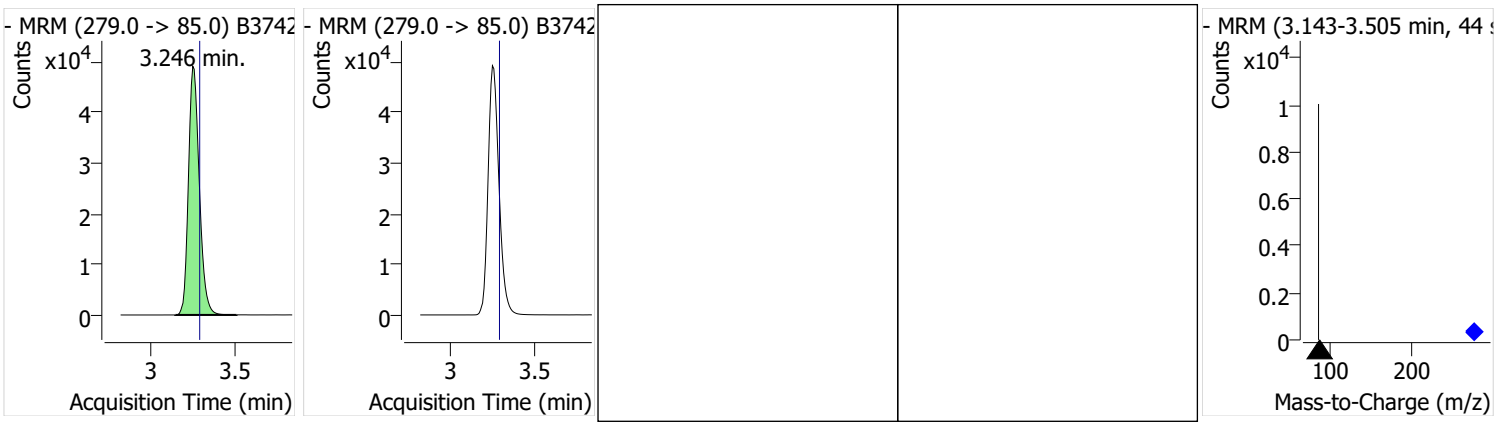

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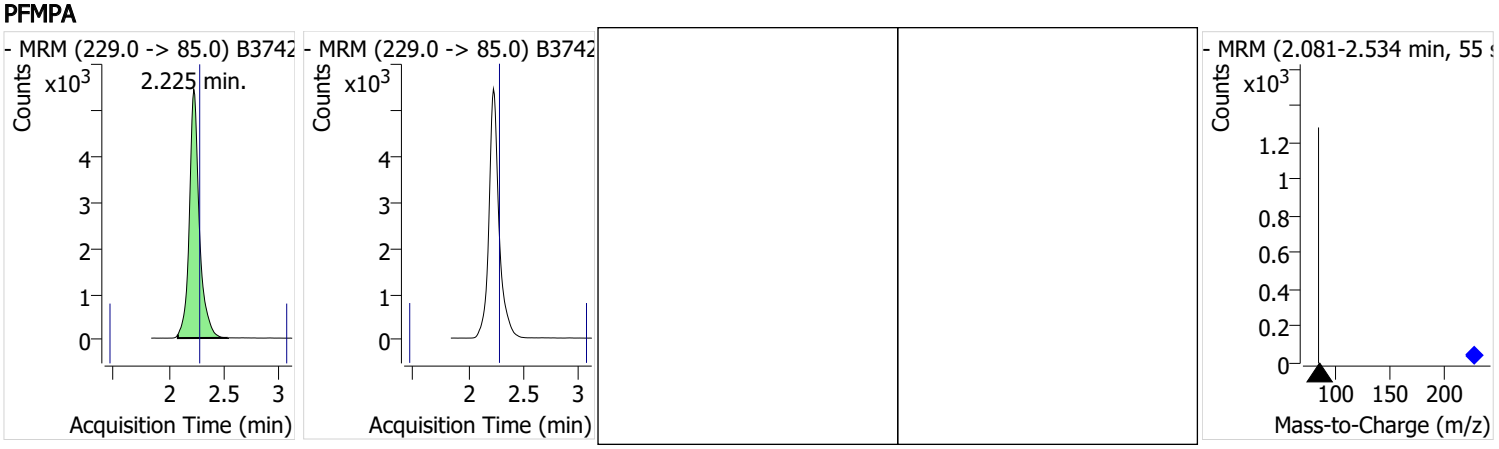

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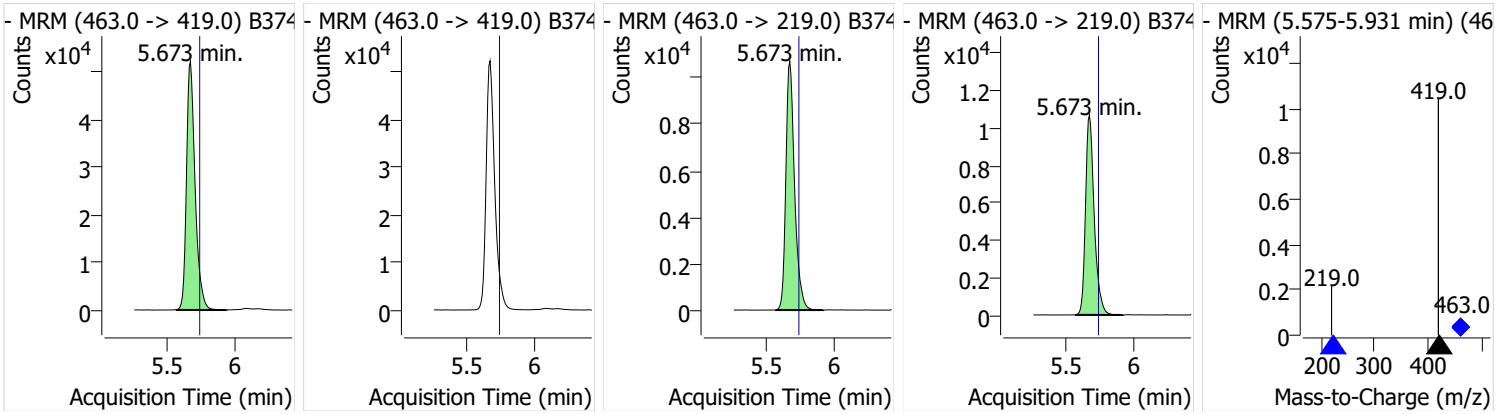

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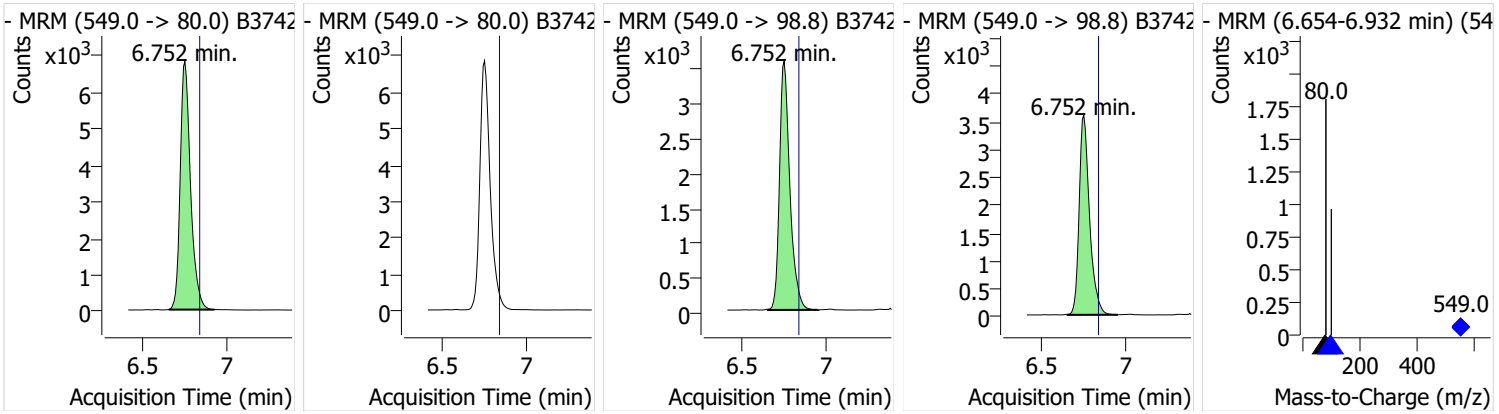
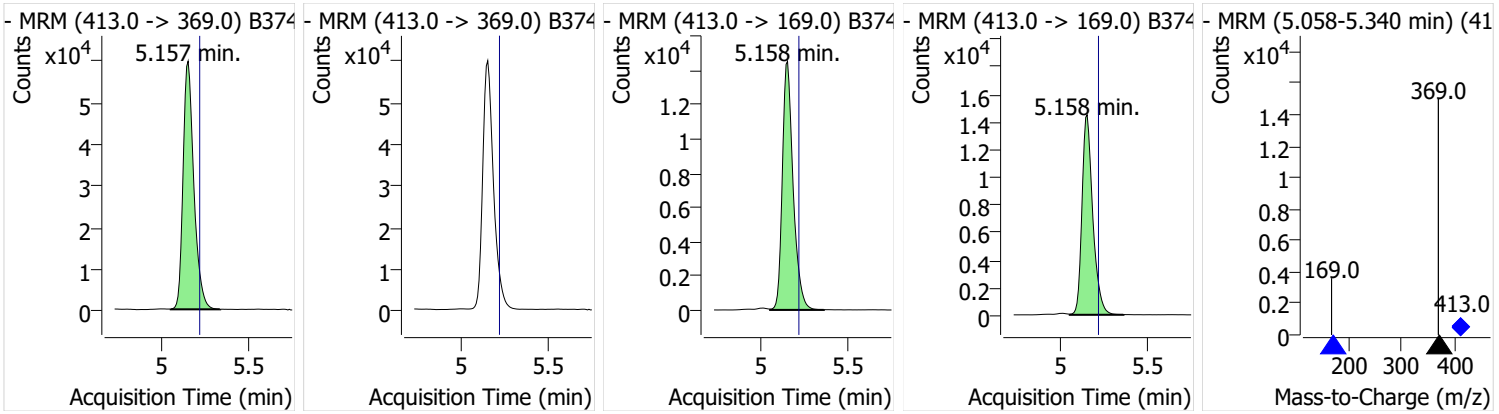


PFOA



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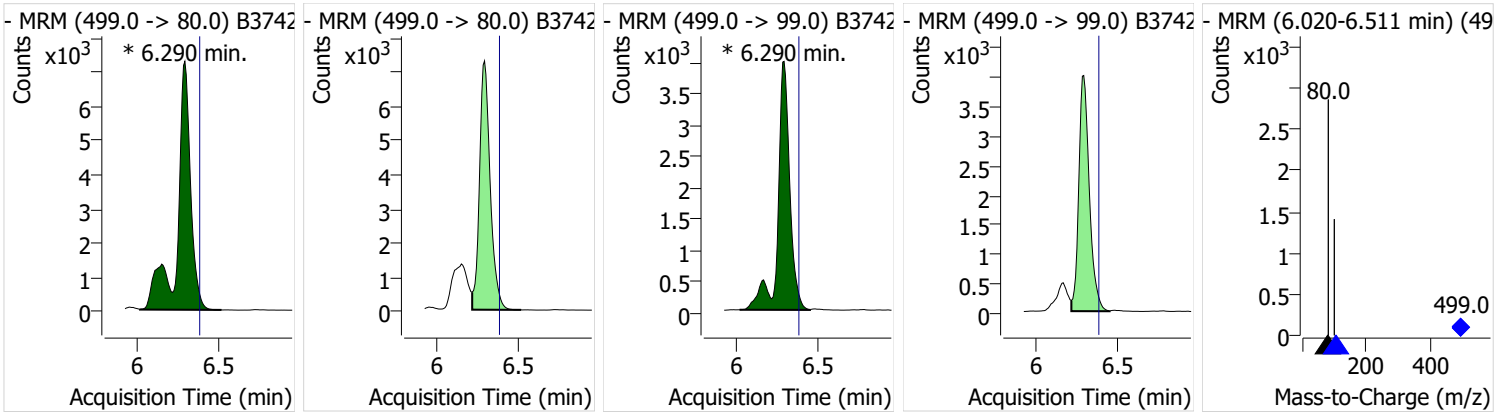
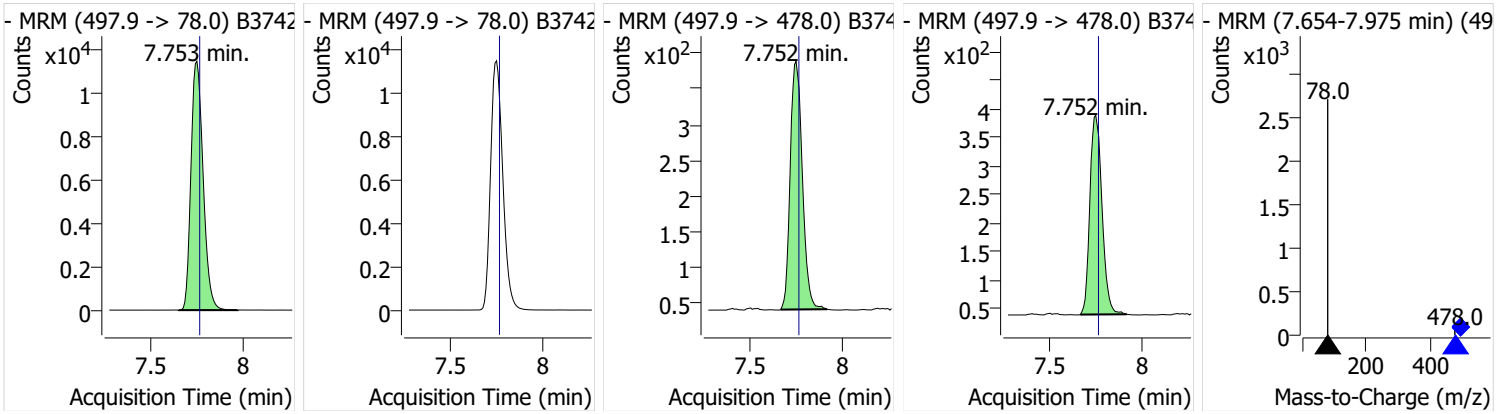


PFOSA



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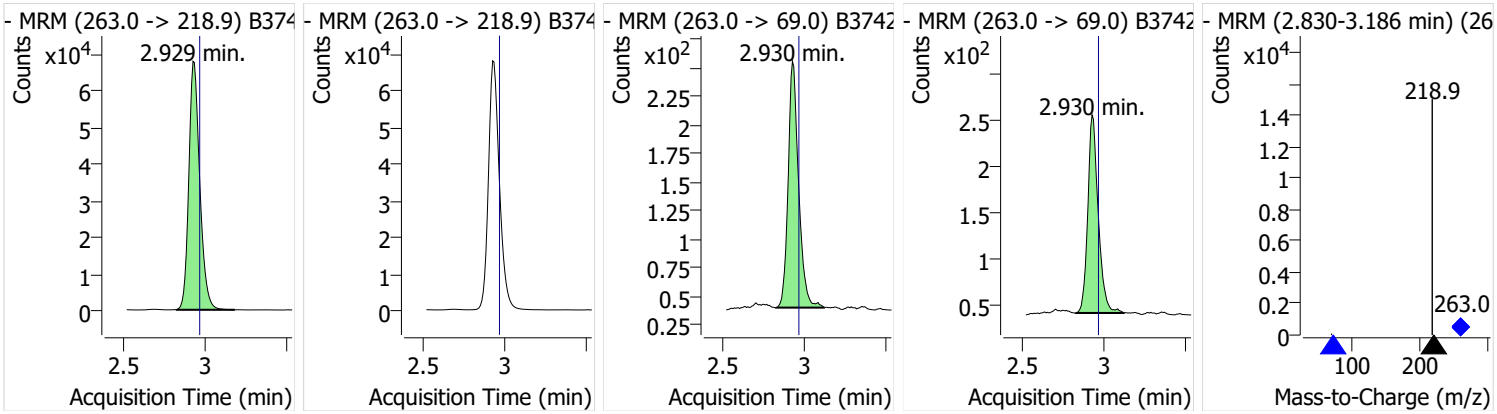

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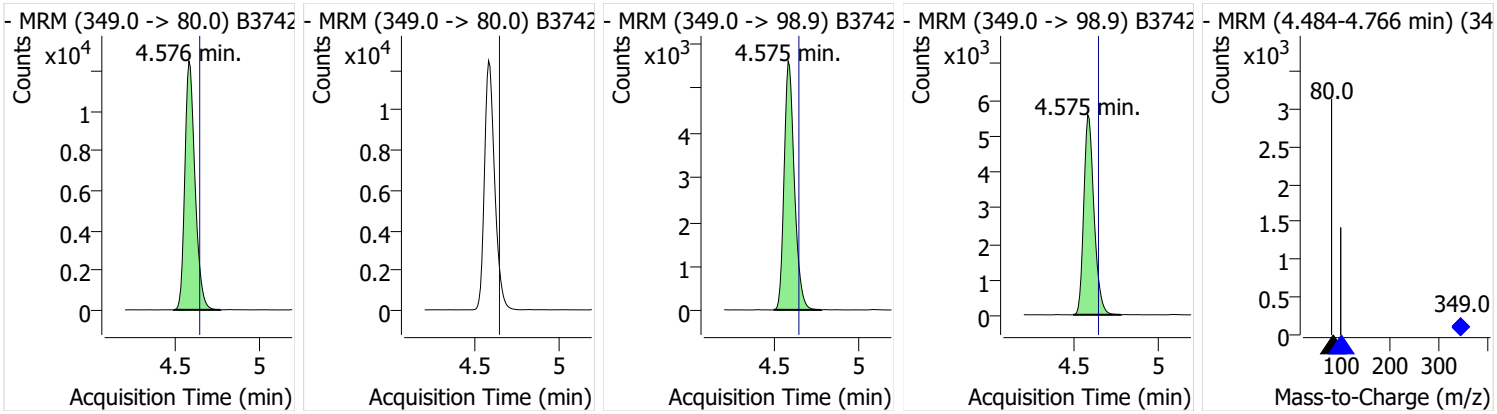

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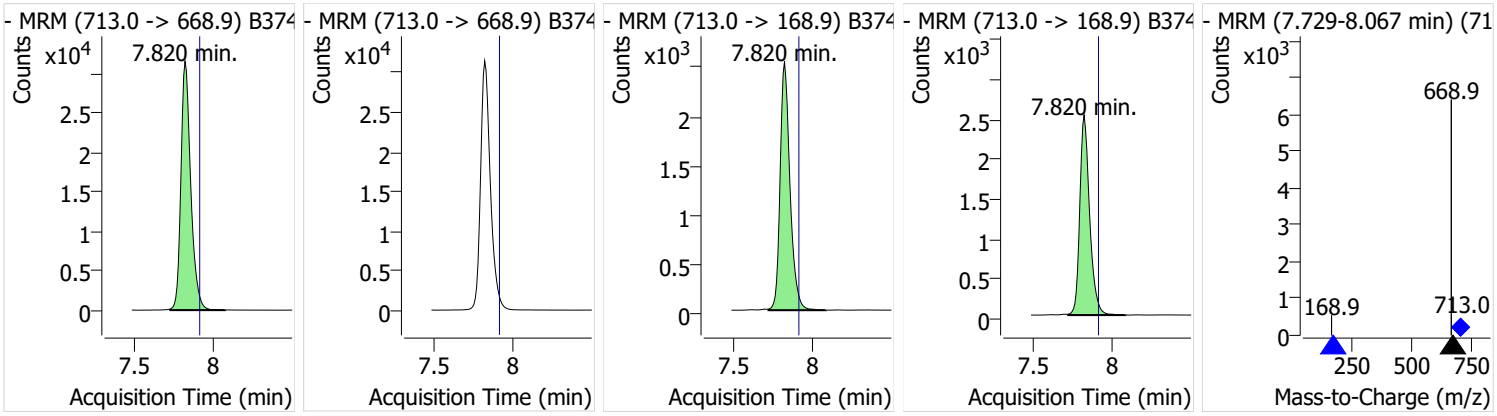

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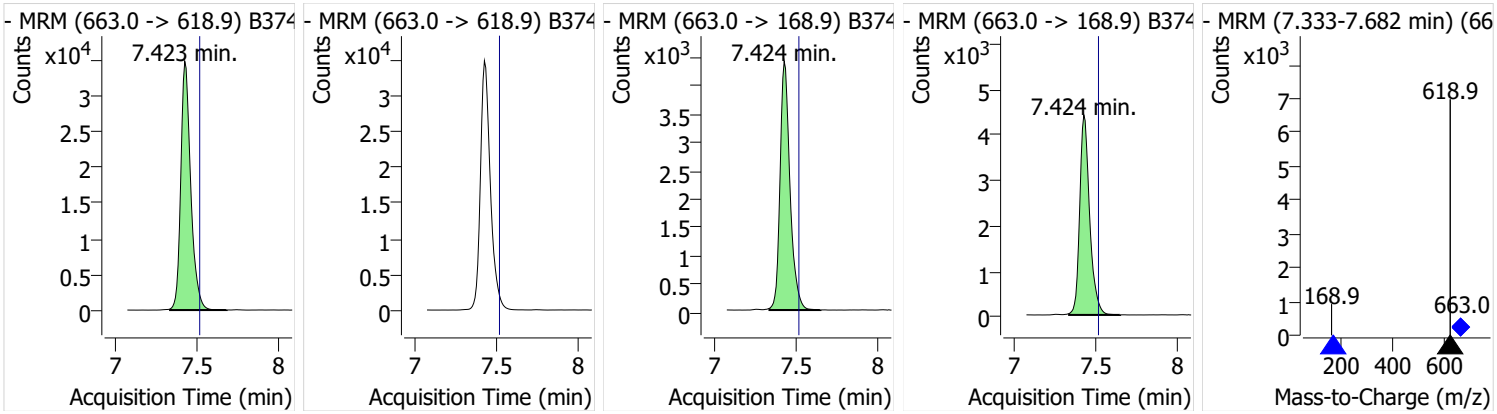

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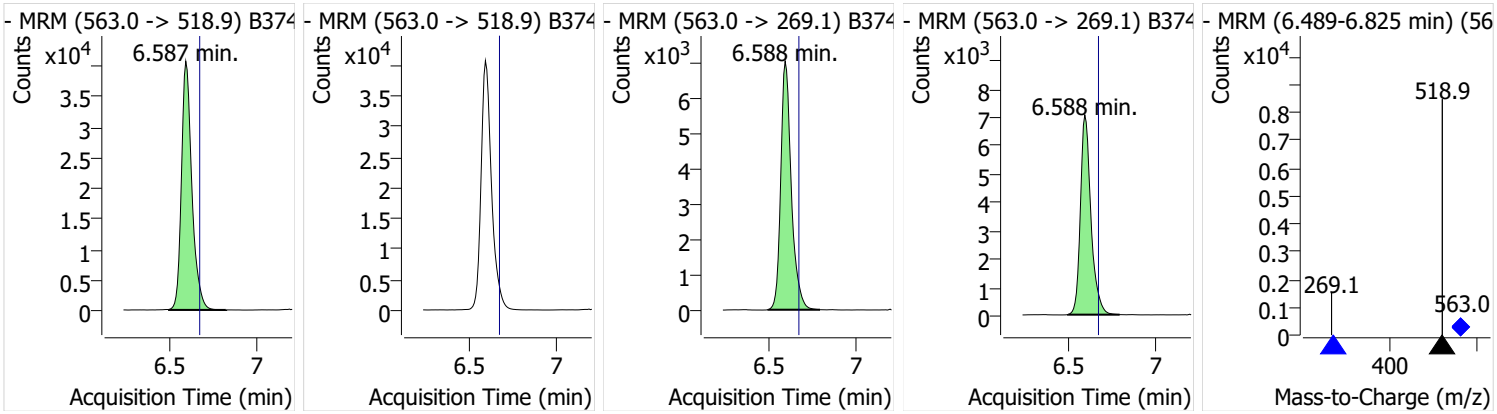

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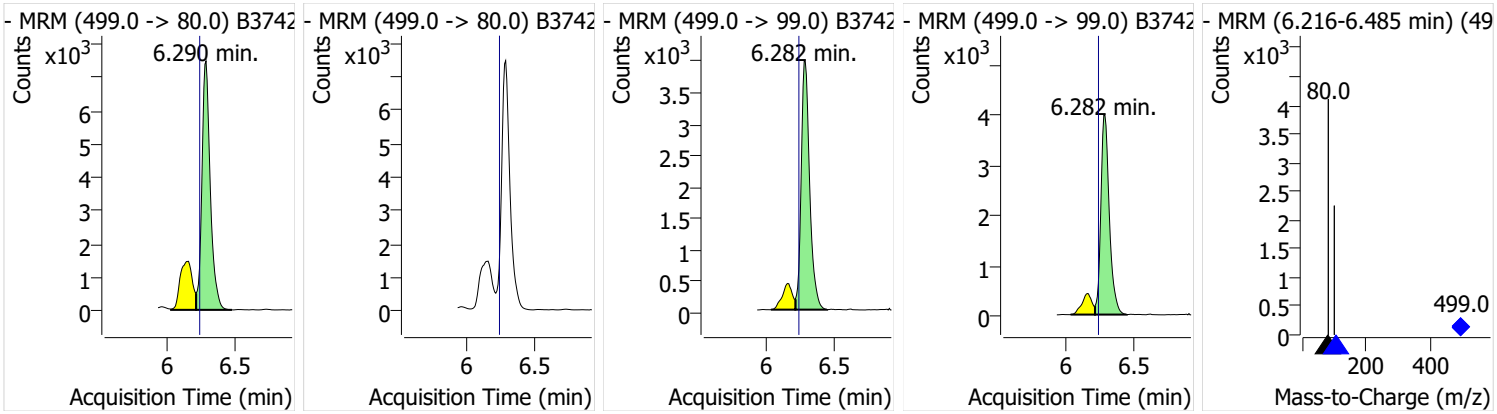
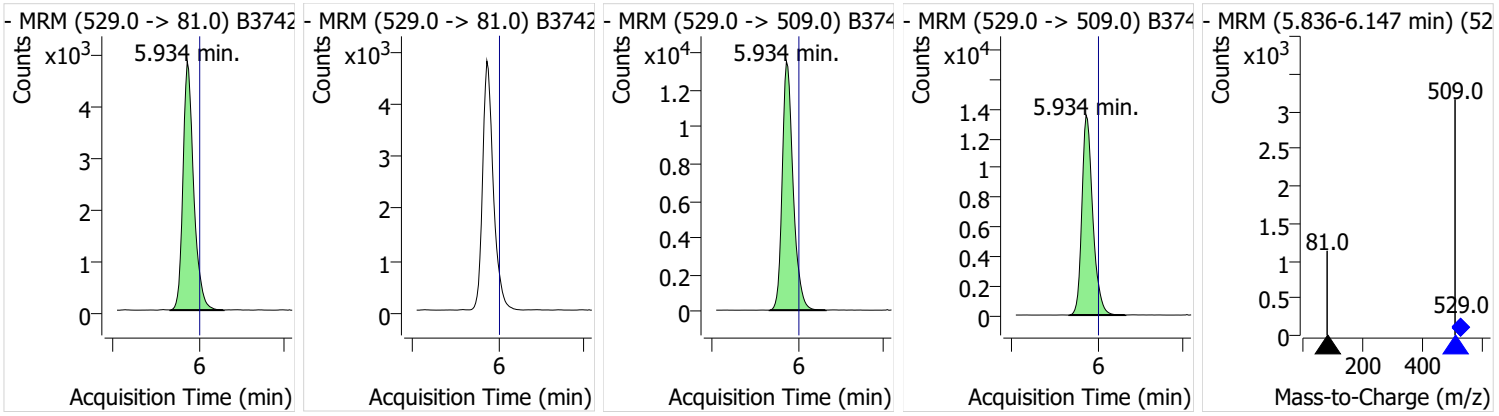
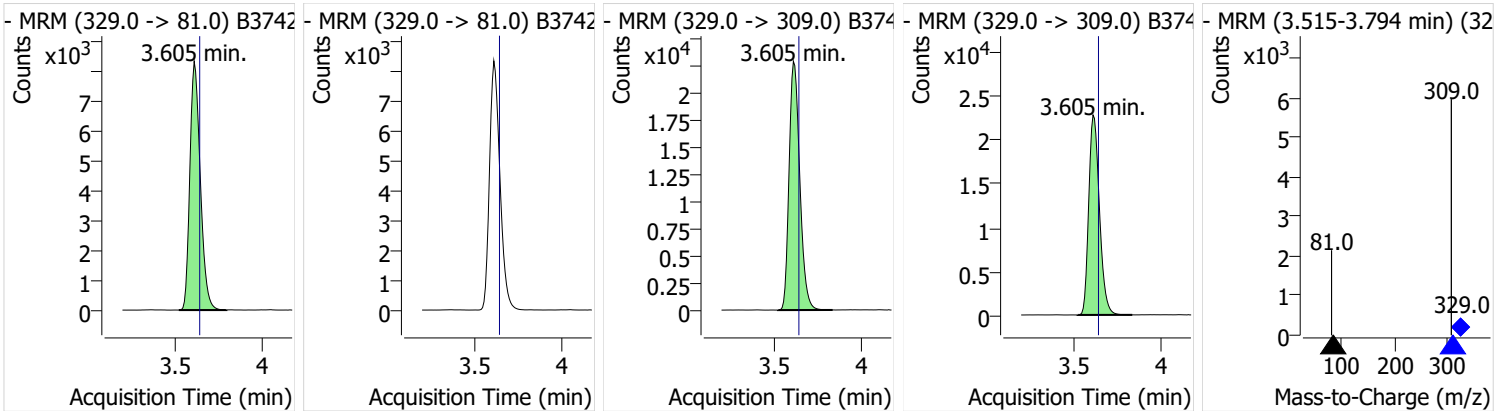


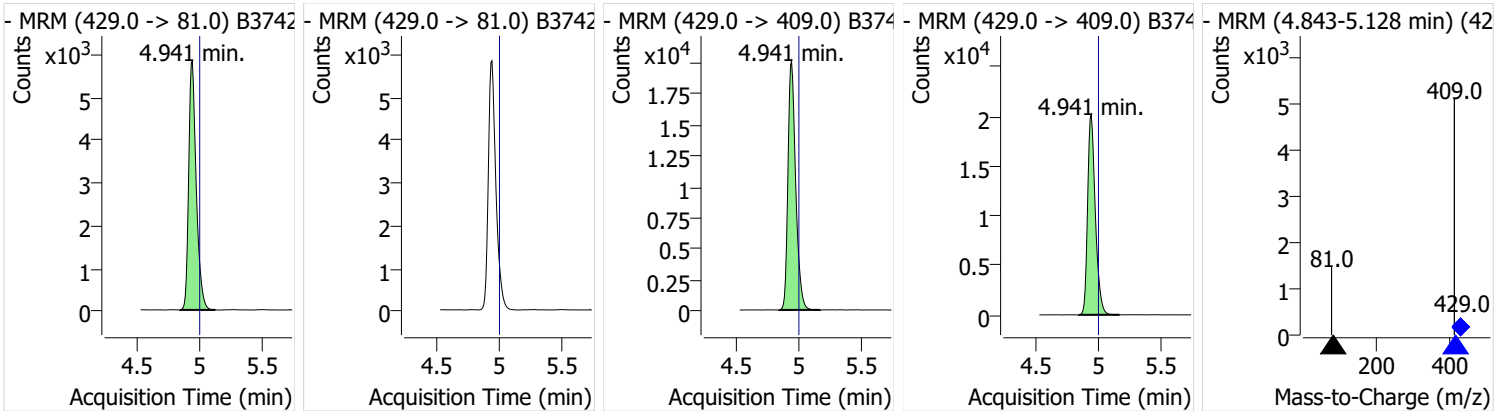
13C2-8:2FTS



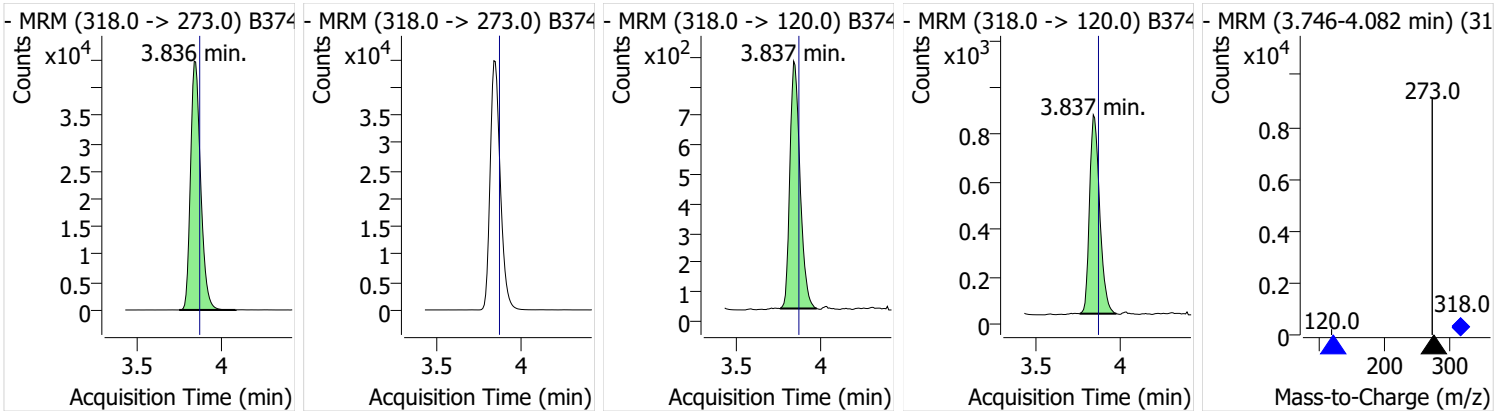
13C2-4:2FTS



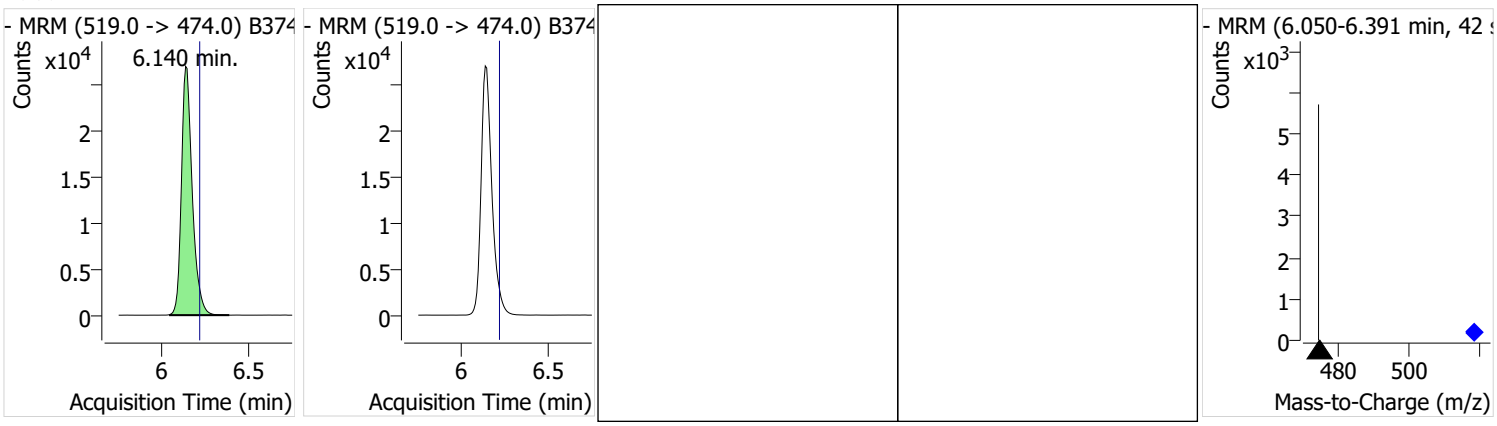
13C2-6:2FTS



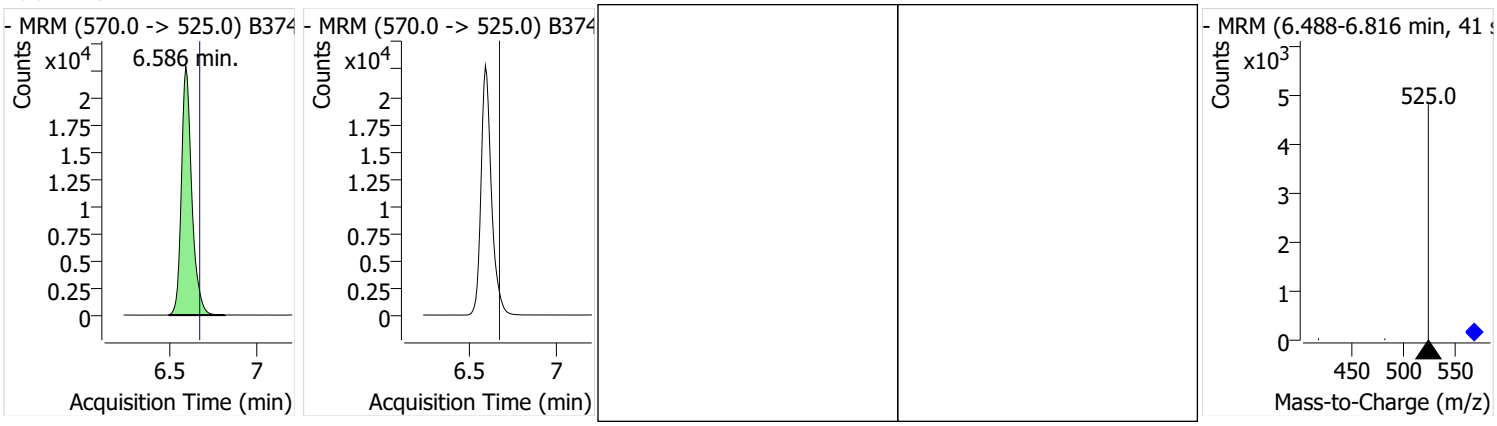
13C5-PFHxA



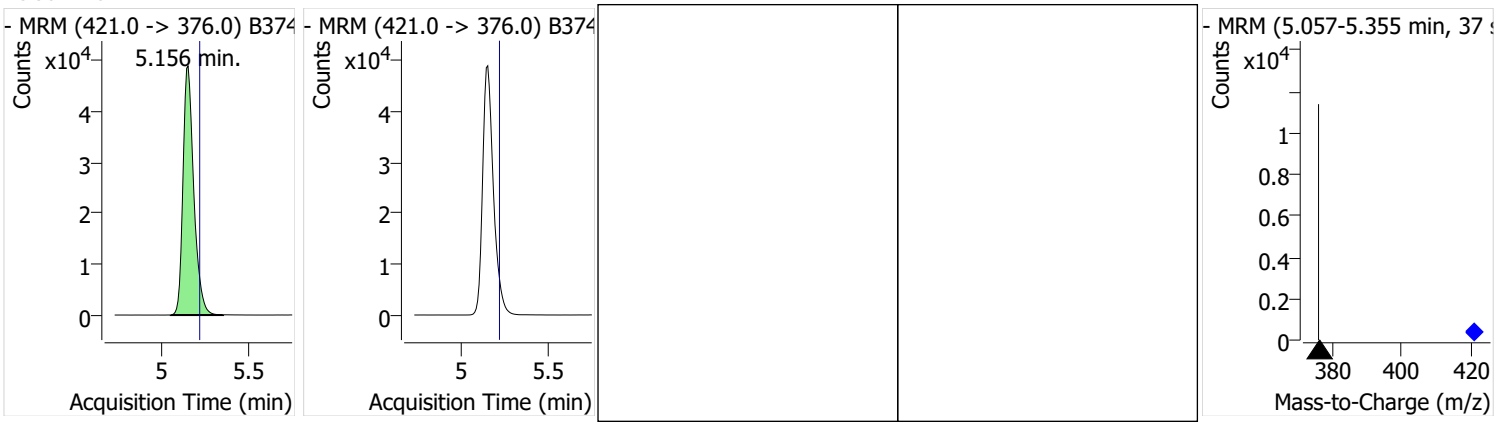
13C6-PFDA



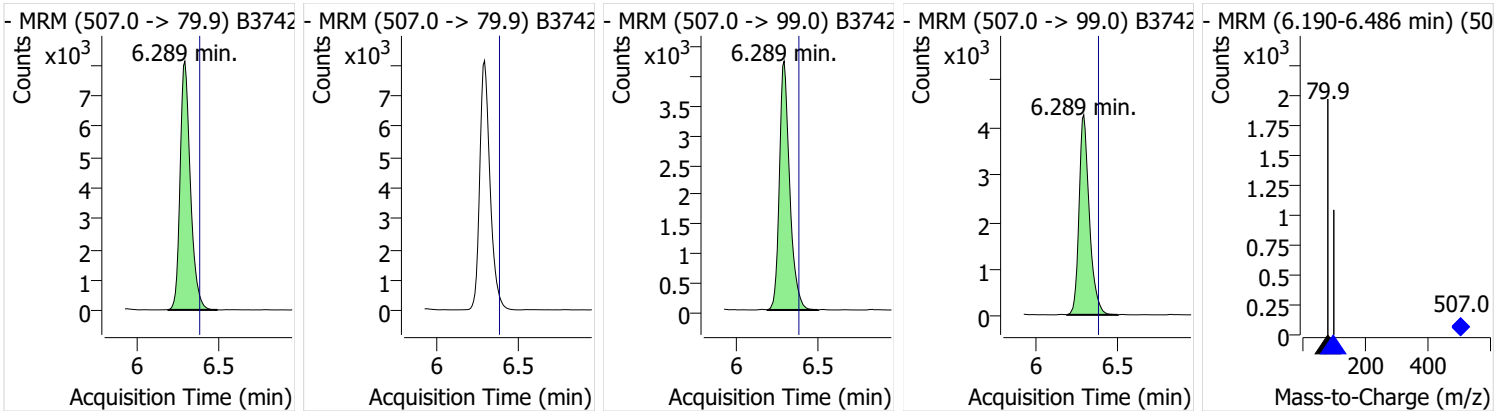
13C7-PFUnA



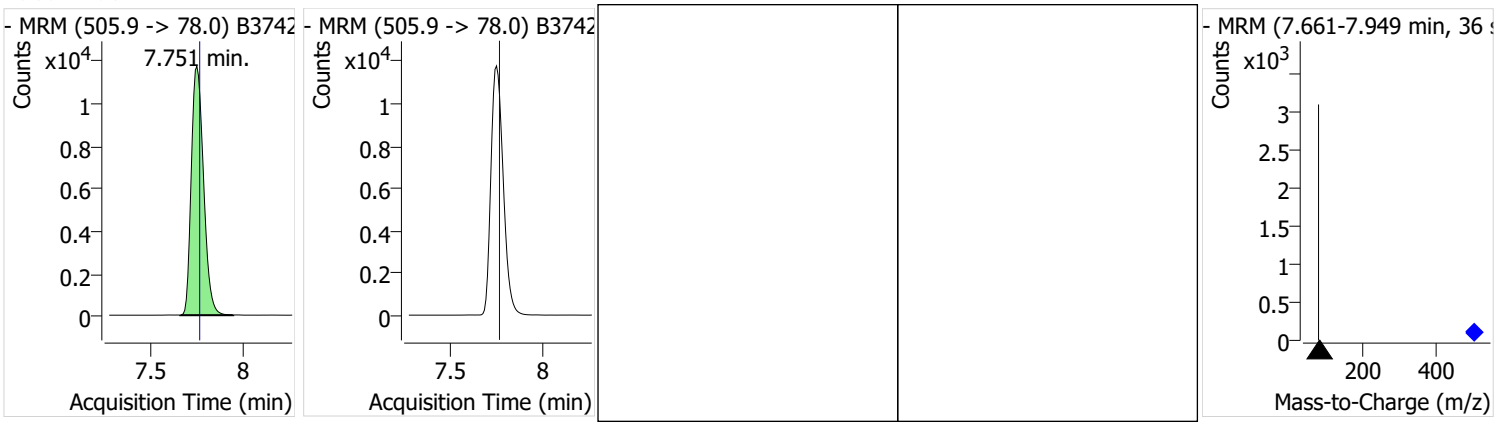
13C8-PFOA



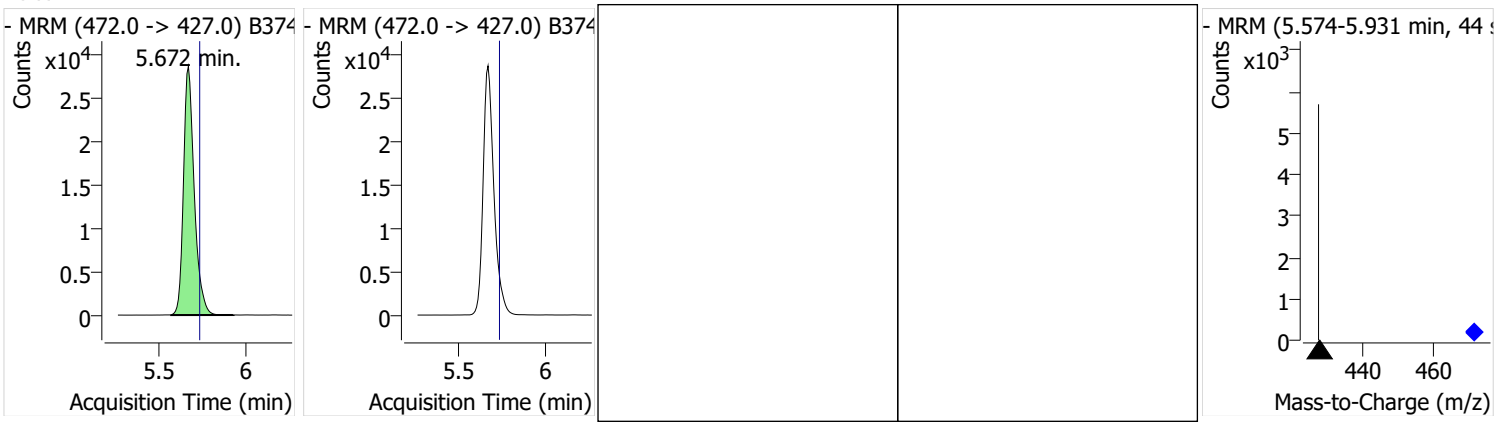
13C8-PFOS



13C8-PFOSA

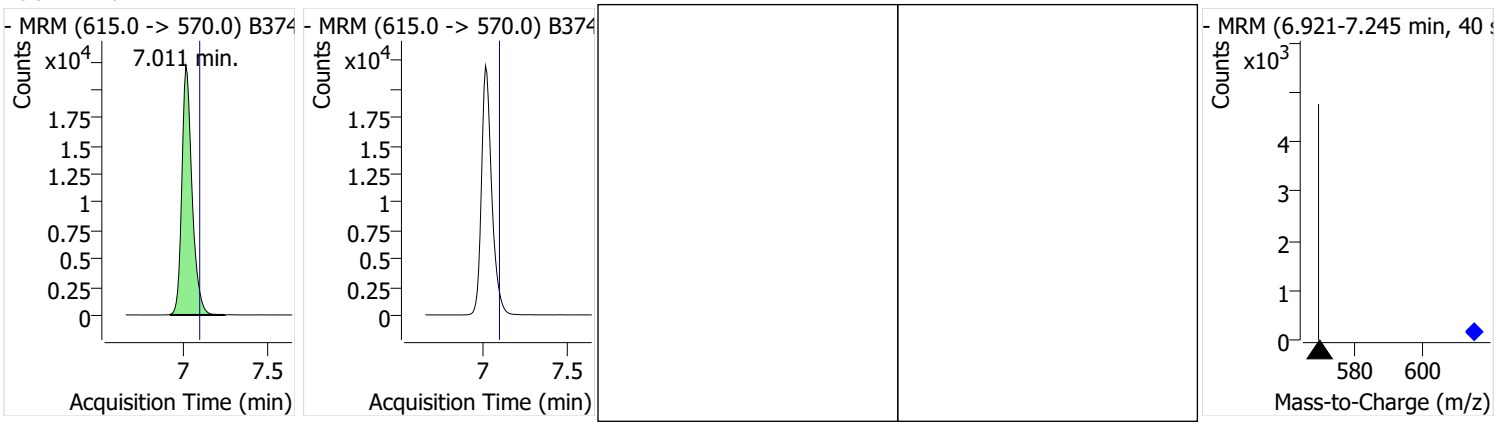


13C9-PFNA

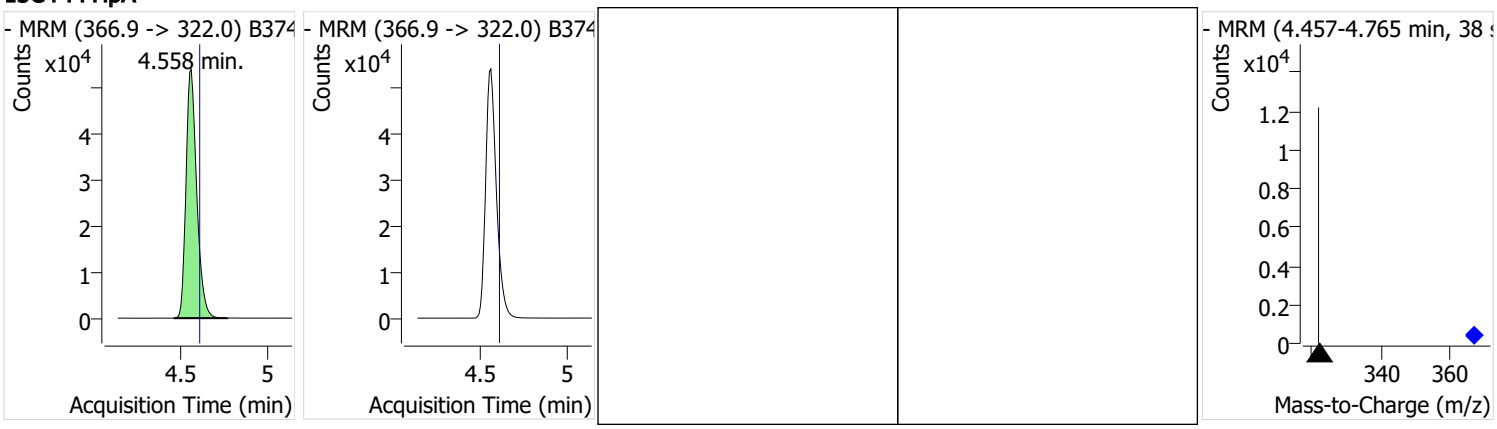


13C5-PFPeA

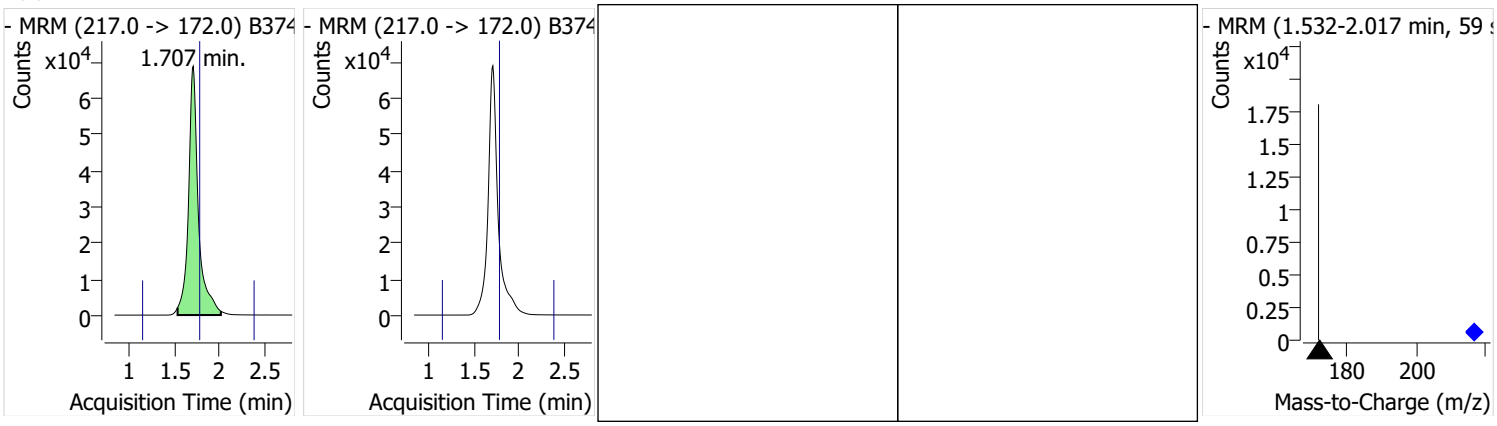
13C2-PFDoA



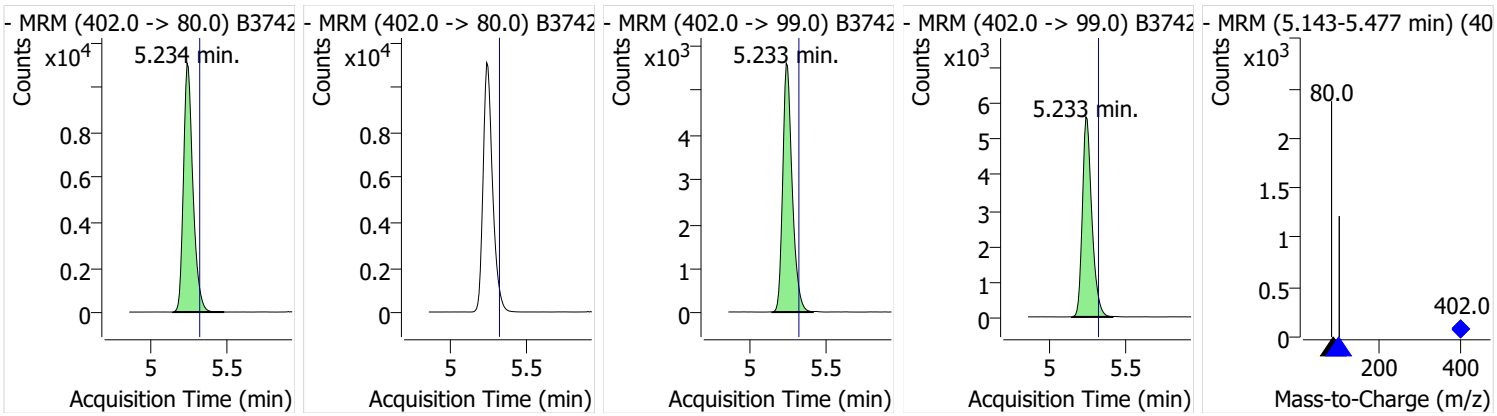
13C4-PFHpA



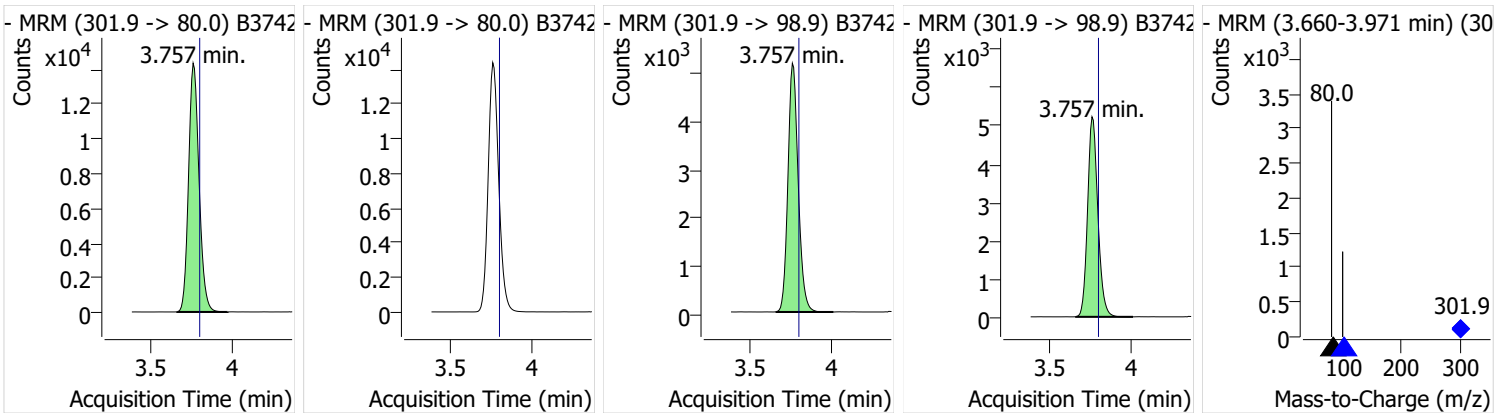
13C4-PFBA



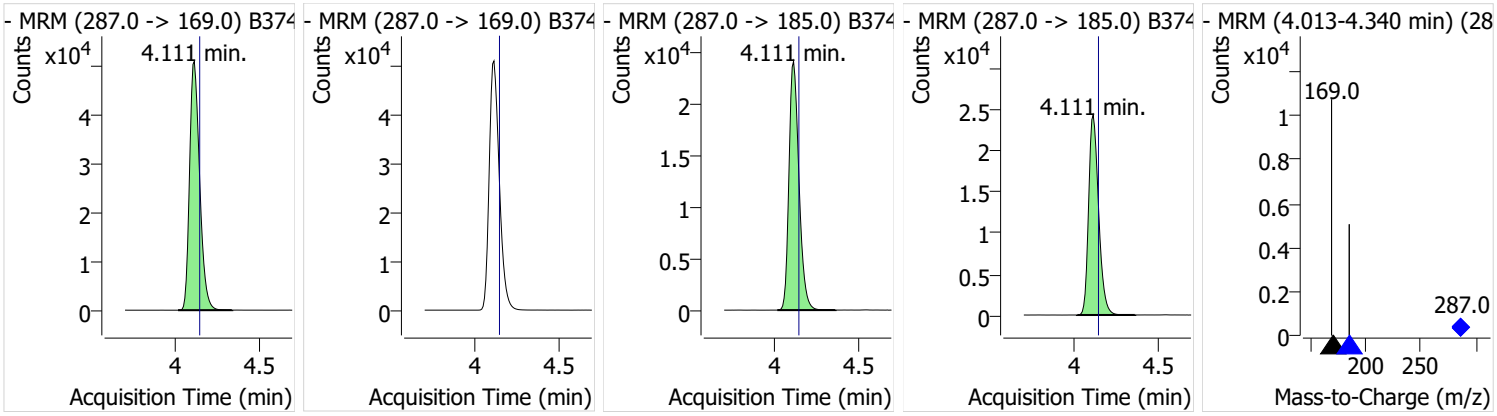
13C3-PFHxS



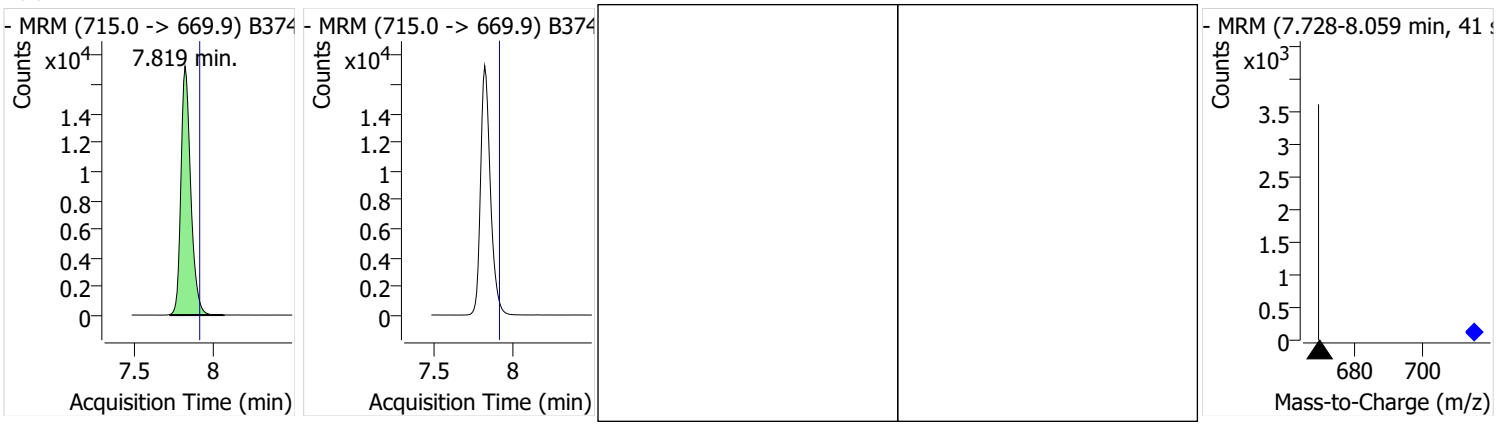
13C3-PFBS



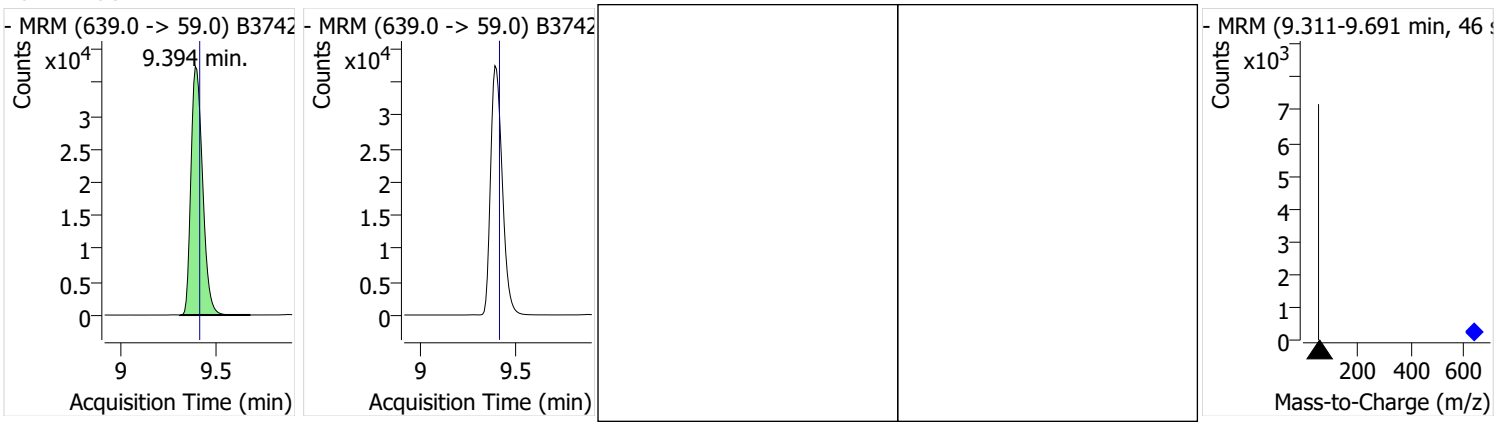
13C3-HFPODA



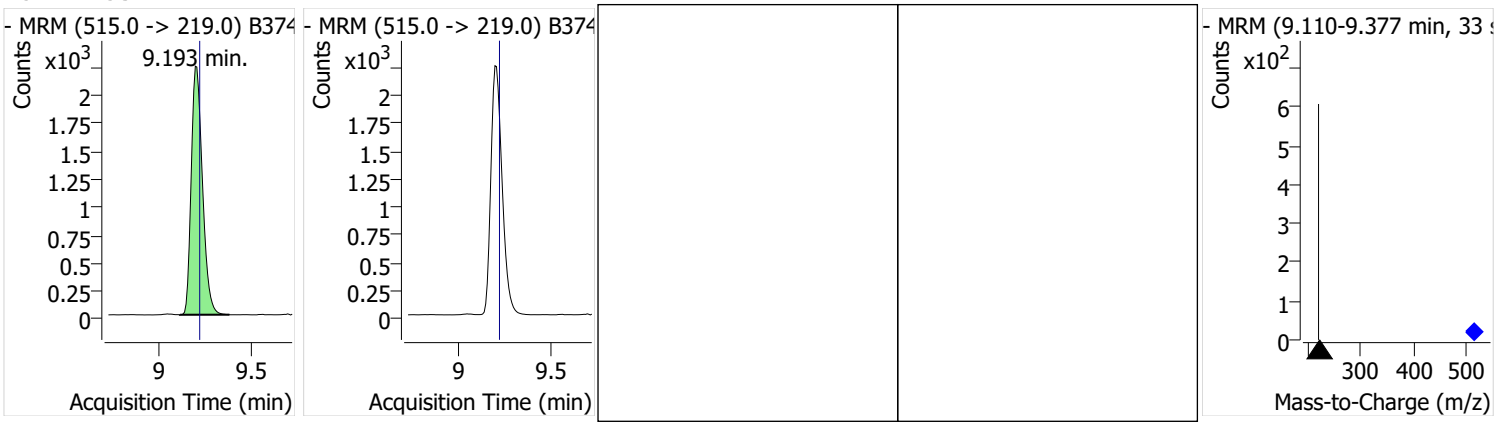
13C2-PFTeDA



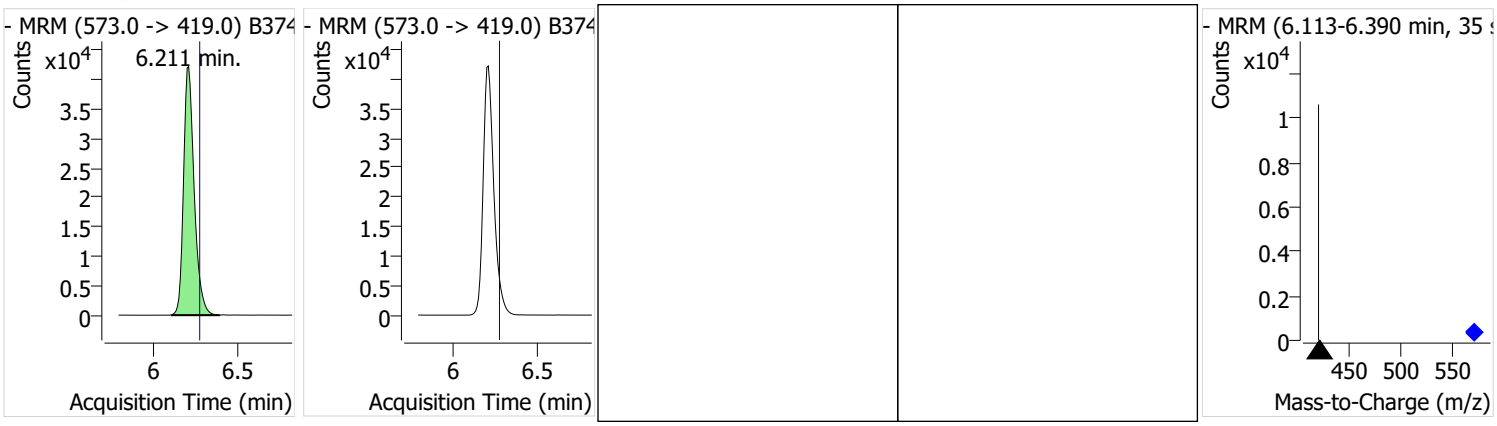
D9-NEtFOSE



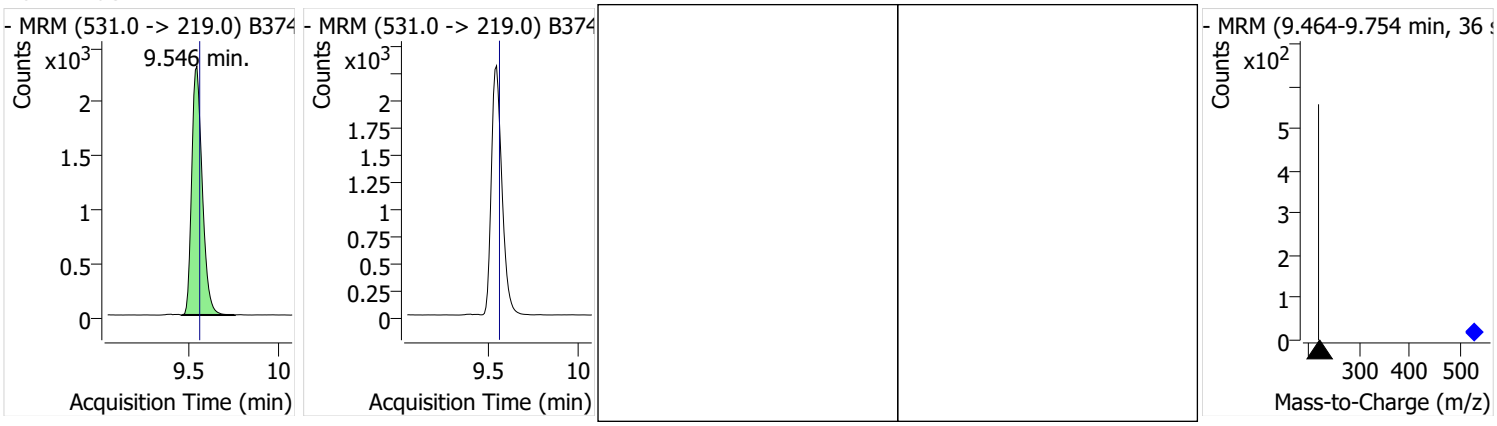
D3-NMeFOSA



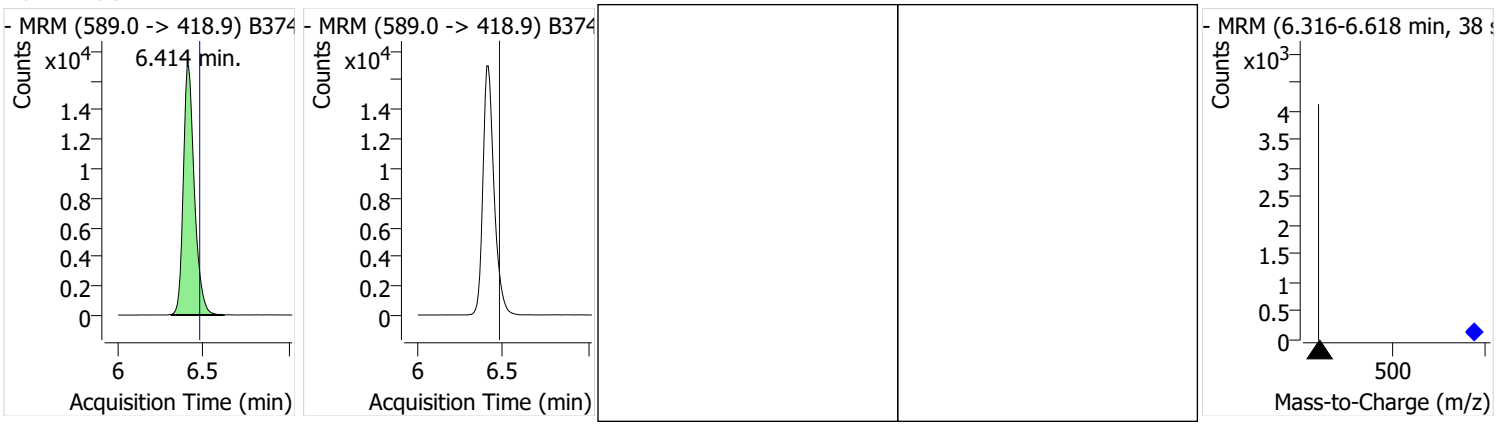
D3-NMeFOSAA



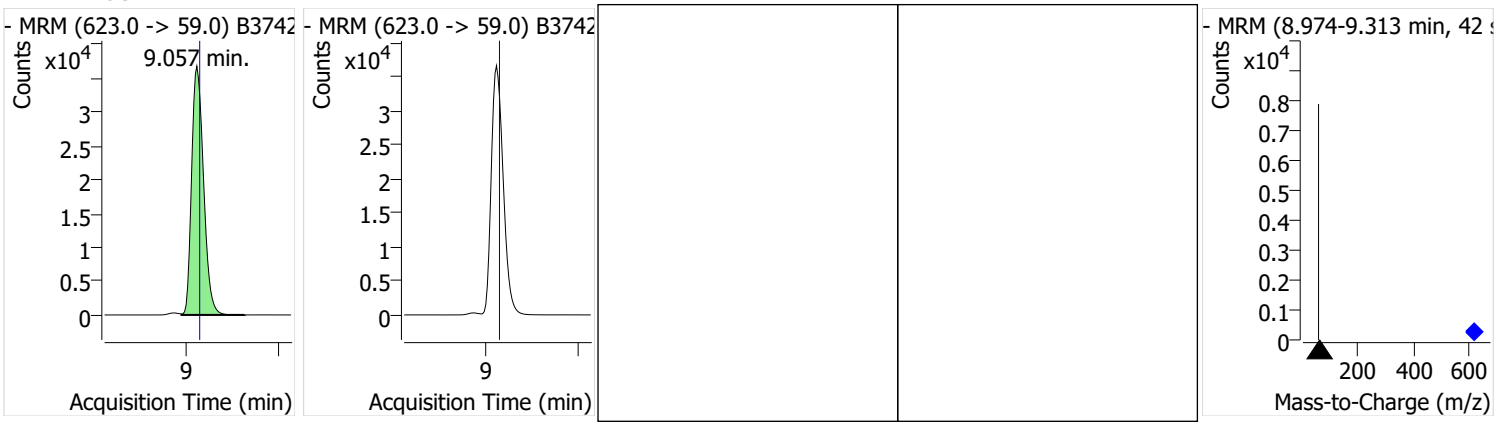
D5-NEtFOSA



D5-NEtFOSAA



D7-NMeFOSE



1 - FORM I
ANALYSIS DATA SHEET

Blank

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374779-BLK1	File ID:	B374779-BLK1.d
Sampled:		Prepared:	05/21/24 00:00	Analyzed:	05/28/24 17:10
Solids:		Preparation:	Draft Method 1633	Dilution:	
Initial/Final:	5.025 g / 5 mL				
Batch:	B374779	Sequence:	S105135	Calibration:	2400593
Instrument:	QQQ5				
Column:	1				

CAS NO.	COMPOUND	CONC. (µg/kg wet)	MDL	RL	Q
375-22-4	Perfluorobutanoic acid (PFBA)		0.32	0.80	
2706-90-3	Perfluoropentanoic acid (PFPeA)		0.045	0.40	
307-24-4	Perfluorohexanoic acid (PFHxA)		0.033	0.20	
375-85-9	Perfluoroheptanoic acid (PFHpA)		0.014	0.20	
335-67-1	Perfluorooctanoic acid (PFOA)		0.031	0.20	
375-95-1	Perfluorononanoic acid (PFNA)		0.014	0.20	
335-76-2	Perfluorodecanoic acid (PFDA)		0.018	0.20	
2058-94-8	Perfluoroundecanoic acid (PFUnA)		0.023	0.20	
307-55-1	Perfluorododecanoic acid (PFDoA)		0.022	0.20	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)		0.022	0.20	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)		0.020	0.20	
375-73-5	Perfluorobutanesulfonic acid (PFBS)		0.021	0.20	
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)		0.026	0.20	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)		0.078	0.20	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)		0.021	0.20	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)		0.032	0.20	
68259-12-1	Perfluorononanesulfonic acid (PFNS)		0.022	0.20	
335-77-3	Perfluorodecanesulfonic acid (PFDS)		0.032	0.20	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)		0.030	0.20	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (		0.070	0.80	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid ((	2.0	0.50	0.80	B-05
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (		0.092	0.80	
754-91-6	Perfluorooctanesulfonamide (PFOSA)		0.031	0.20	
31506-32-8	N-methyl perfluoroocatnesulfonamide (NMeF		0.025	0.20	
4151-50-2	N-ethyl perfluorooctanesulfonamide (NEtFOS		0.023	0.20	
2355-31-9	N-MeFOSAA (NMeFOSAA)		0.036	0.20	
2991-50-6	N-EtFOSAA (NEtFOSAA)		0.030	0.20	
24448-09-7	N-methylperfluorooctanesulfonamidoethanol(		0.21	2.0	
1691-99-2	N-ethylperfluorooctanesulfonamidoethanol (N		0.21	2.0	

1 - FORM I
ANALYSIS DATA SHEET

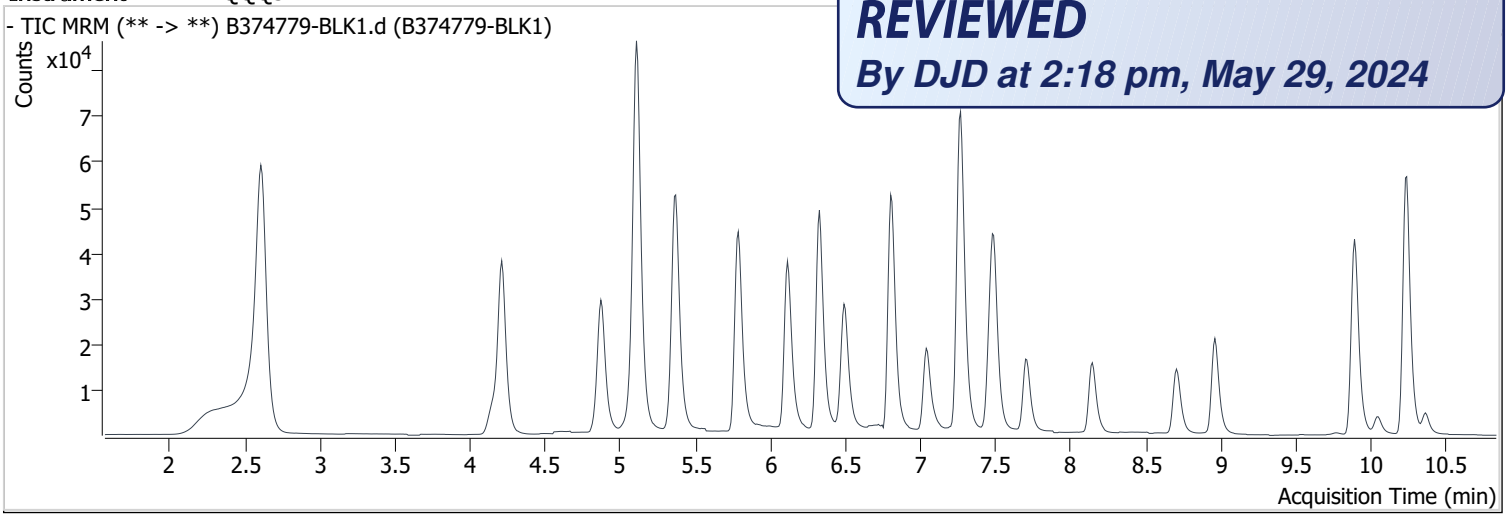
Blank

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374779-BLK1	File ID:	B374779-BLK1.d
Sampled:		Prepared:	05/21/24 00:00	Analyzed:	05/28/24 17:10
Solids:		Preparation:	Draft Method 1633	Dilution:	
Initial/Final:	5.025 g / 5 mL				
Batch:	B374779	Sequence:	S105135	Calibration:	2400593
Instrument:	QQQ5				
Column:	1				

CAS NO.	COMPOUND	CONC. (µg/kg wet)	MDL	RL	Q
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPC		0.051	0.80	
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADON/		0.060	0.80	
756426-58-1	9Cl-PF3ONS (F53B Minor)		0.058	0.80	
763051-92-9	11Cl-PF3OUdS (F53B Major)		0.088	0.80	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)(3:3		0.19	2.0	
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)		1.3	10	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)(7:3		1.5	10	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEE		0.031	0.40	
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)		0.033	0.40	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)		0.033	0.40	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)		0.060	0.40	

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\B374779_B375132.batch.bin		
Analysis Time	5/29/2024 12:02 PM	**Last Calib Update**	5/29/2024 8:40 AM
Acq. Time	5/28/2024 5:10 PM	**Data File**	B374779-BLK1.d
Sample Type	Sample	**Sample Name**	B374779-BLK1
Dilution	1	**Acq. Method**	1633_ACQUISITION.m
Sample Comment		**Processing method**	1633_052824.m
Instrument	QQQ5		

REVIEWED
By DJD at 2:18 pm, May 29, 2024



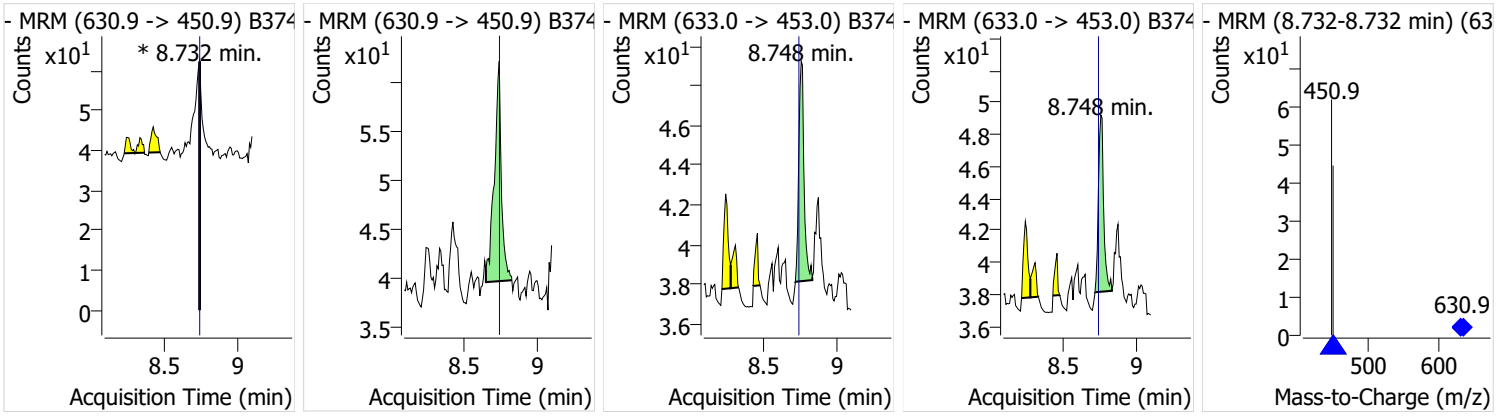
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
11Cl-PF3OUdS	8.732	0			13C3-HFPODA - ISTD	5.375	137459	-	ng/ml	✔	1	AMS 05/29/24
633.0 -> 453.0				*								
3:3FTCA	3.841	0			13C5-PFPeA - ISTD	4.212	171801	-	ng/ml	✔	1	AMS 05/29/24
241.0 -> 117.0				*								
4:2FTS	4.879	0			13C2-4:2FTS - ISTD	4.870	29821	-	ng/ml	✔	1	AMS 05/29/24
327.0 -> 80.9				*								
5:3FTCA	5.501	0			13C5-PFHxA - ISTD	5.109	119549	-	ng/ml	✔	1	AMS 05/29/24
341.0 -> 217.0				*								
6:2FTS	6.114	24856	6820.30		13C2-6:2FTS - ISTD	6.114	22146	1.9742	ng/ml			
427.0 -> 80.9			1347.39	35.3								
7:3FTCA	6.682	240	27.30		13C5-PFHxA - ISTD	5.109	119549	0.0312	ng/ml			
441.0 -> 317.0			34.78	98.9								
8:2FTS	6.826	0			13C2-8:2FTS - ISTD	7.039	21353	-	ng/ml	✔	1	AMS 05/29/24
527.0 -> 81.0				*								
9Cl-PF3ONS	7.843	0			13C3-HFPODA - ISTD	5.375	137459	-	ng/ml	✔	1	AMS 05/29/24
533.0 -> 353.0				*								
ADONA	6.004	0			13C3-HFPODA - ISTD	5.375	137459	-	ng/ml	✔	1	AMS 05/29/24
377.0 -> 85.1				*								
HFPO-DA	5.400	0			13C3-HFPODA - ISTD	5.375	137459	-	ng/ml	✔	1	AMS 05/29/24

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
285.0 -> 184.9				*								
NEtFOSA	10.373	0			D5-NEtFOSA - ISTD	10.362	13558	-	ng/ml	✔	1	AMS 05/29/24
526.0 -> 219.0				*								
NEtFOSAA	7.470	0			D5-NEtFOSAA - ISTD	7.461	64829	-	ng/ml	✔	1	AMS 05/29/24
584.0 -> 526.0				*								
NEtFOSE	10.261	0			D9-NEtFOSE - ISTD	10.236	200956	-	ng/ml	✔	1	AMS 05/29/24
NFDHA	4.974	0			13C5-PFHxA - ISTD	5.109	119549	-	ng/ml	✔	1	AMS 05/29/24
295.0 -> 85.0				*								
NMeFOSA	10.044	0			D3-NMeFOSA - ISTD	10.051	13144	-	ng/ml	✔	1	AMS 05/29/24
512.0 -> 219.0				*								
NMeFOSAA	7.291	0			D3-NMeFOSAA - ISTD	7.274	124296	-	ng/ml	✔	1	AMS 05/29/24
570.0 -> 418.9				*								
NMeFOSE	9.915	0			D7-NMeFOSE - ISTD	9.890	155412	-	ng/ml	✔	1	AMS 05/29/24
PFBA	2.603	0			13C4-PFBA - ISTD	2.606	201072	-	ng/ml	✔	1	AMS 05/29/24
PFBS	5.146	0			13C3-PFBS - ISTD	5.120	50618	-	ng/ml	✔	1	AMS 05/29/24
298.9 -> 98.8				*								
PFDA	7.196	0			13C6-PFDA - ISTD	7.261	61221	-	ng/ml	✔	1	AMS 05/29/24
513.0 -> 219.0				*								
PFDoA	8.153	0			13C2-PFDoA - ISTD	8.145	54739	-	ng/ml	✔	1	AMS 05/29/24
613.0 -> 319.0				*								
PFDoS	9.222	0			13C8-PFOS - ISTD	7.492	31085	-	ng/ml	✔	1	AMS 05/29/24
698.9 -> 99.0				*								
PFDS	8.493	0			13C8-PFOS - ISTD	7.492	31085	-	ng/ml	✔	1	AMS 05/29/24
599.0 -> 98.8				*								
PFEESA	5.511	0			13C5-PFHxA - ISTD	5.109	119549	-	ng/ml	✔	1	AMS 05/29/24
315.0 -> 83.0				*								
PFHpA	5.789	0			13C4-PFHpA - ISTD	5.789	154457	-	ng/ml	✔	1	AMS 05/29/24
362.9 -> 169.0				*								
PFHpS	7.036	0			13C8-PFOS - ISTD	7.492	31085	-	ng/ml	✔	1	AMS 05/29/24
449.0 -> 98.8				*								
PFHxA	5.119	0			13C5-PFHxA - ISTD	5.109	119549	-	ng/ml	✔	1	AMS 05/29/24

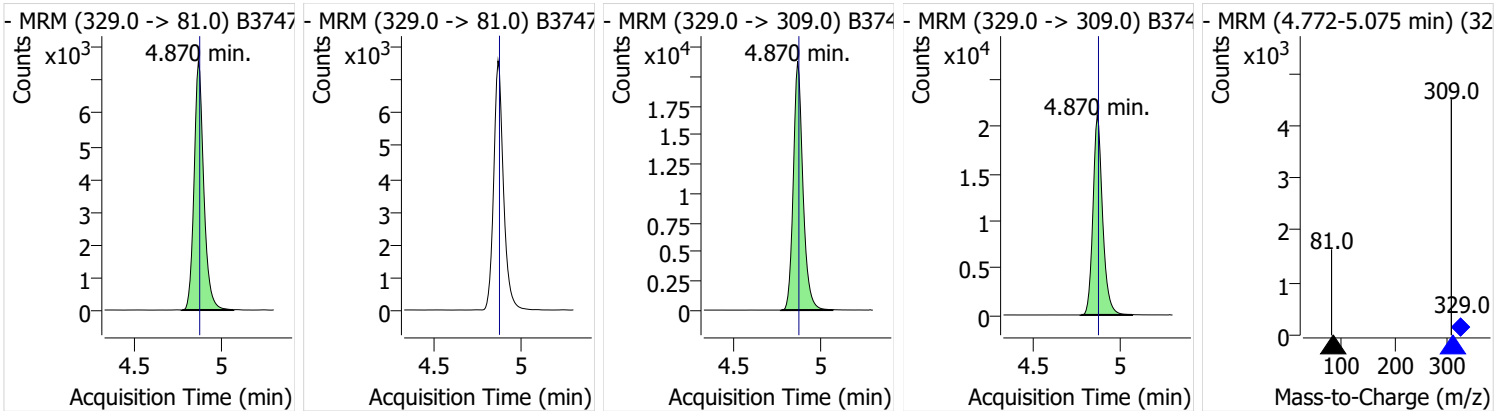
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
313.0 -> 118.9				*								
PFHxS	6.489	154	37.68		13C3-PFHxS - ISTD	6.496	35283	0.0091	ng/ml			
398.9 -> 99.0			38.22	52.3								
PFMBA	4.565	0			13C5-PFPeA - ISTD	4.212	171801	-	ng/ml	✔	1	AMS 05/29/24
PFMPA	3.155	0			13C5-PFPeA - ISTD	4.212	171801	-	ng/ml	✔	1	AMS 05/29/24
PFNA	6.812	0			13C9-PFNA - ISTD	6.804	68131	-	ng/ml	✔	1	AMS 05/29/24
463.0 -> 219.0				*								
PFNS	8.025	0			13C8-PFOS - ISTD	7.492	31085	-	ng/ml	✔	1	AMS 05/29/24
549.0 -> 98.8				*								
PFOA	6.329	0			13C8-PFOA - ISTD	6.328	142847	-	ng/ml	✔	1	AMS 05/29/24
413.0 -> 169.0				*								
PFOS	7.501	0			13C8-PFOS - ISTD	7.492	31085	-	ng/ml	✔	1	AMS 05/29/24
499.0 -> 99.0				*								
PFOSA	8.718	0			13C8-PFOSA - ISTD	8.709	51687	-	ng/ml	✔	1	AMS 05/29/24
497.9 -> 478.0				*								
PFPeA					13C5-PFPeA - ISTD	4.212	171801	-	ng/ml			
263.0 -> 69.0				*								
PFPeS	6.047	0			13C3-PFHxS - ISTD	6.496	35283	-	ng/ml	✔	1	AMS 05/29/24
349.0 -> 98.9				*								
PFTeDA	8.967	0			13C2-PFTeDA - ISTD	8.958	73708	-	ng/ml	✔	1	AMS 05/29/24
713.0 -> 168.9				*								
PFTrDA	8.582	0			13C2-PFDoA - ISTD	8.145	54739	-	ng/ml	✔	1	AMS 05/29/24
663.0 -> 168.9				*								
PFUnA	7.710	0			13C7-PFUnA - ISTD	7.701	56661	-	ng/ml	✔	1	AMS 05/29/24
563.0 -> 269.1				*								
TDCA	5.621	17	4.97					-	ng/ml			
499.0 -> 99.0			4.20	**37.4								
13C2-8:2FTS	7.038	44421	48397.48		18O2-PFHxS	6.495	44557	3.6505	ng/ml			
529.0 -> 81.0			4481.90	48.1								
13C2-4:2FTS	4.870	83353	25813.70		18O2-PFHxS	6.495	44557	3.6746	ng/ml			
329.0 -> 81.0			8580.12	35.8								
13C2-6:2FTS	6.113	73626	57013.93		18O2-PFHxS	6.495	44557	3.6517	ng/ml			
429.0 -> 81.0			3713.68	30.1								
13C5-PFHxA	5.109	119549	13297.44		13C2-PFHxA	5.110	150224	1.8782	ng/ml			

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
318.0 -> 120.0			191.77	1.7								
13C6-PFDA	7.261	61221	7003.22		13C2-PFDA	7.262	78764	0.9761	ng/ml			
13C7-PFUnA	7.701	56661	9580.57		13C2-PFDA	7.262	78764	0.9663	ng/ml			
13C8-PFOA	6.328	142847	21298.00		13C4-PFOA	6.329	22227	1.9641	ng/ml			
13C8-PFOS	7.492	31085	11953.61		13C4-PFOS	7.492	44286	1.8925	ng/ml			
507.0 -> 99.0			4087.18	54.1								
13C8-PFOSA	8.709	51687	46751.38		13C4-PFOS	7.492	44286	1.7414	ng/ml			
13C9-PFNA	6.804	68131	9161.89		13C5-PFNA	6.804	115271	0.9606	ng/ml			
13C5-PFPeA	4.212	171801	22544.55		13C2-PFHxA	5.110	150224	3.6400	ng/ml			
13C2-PFDoA	8.145	54739	9709.93		13C2-PFDA	7.262	78764	0.9045	ng/ml			
13C4-PFHpA	5.789	154457	14148.96		13C2-PFHxA	5.110	150224	1.8601	ng/ml			
13C4-PFBA	2.606	210322	45471.35		13C3-PFBA	2.609	125981	7.6422	ng/ml	✔	3	AMS 05/29/24
13C3-PFHxS	6.496	35283	17458.56		18O2-PFHxS	6.495	44557	1.9295	ng/ml			
402.0 -> 99.0			5242.91	53.1								
13C3-PFBS	5.120	50618	8989.41		18O2-PFHxS	6.495	44557	1.9129	ng/ml			
301.9 -> 98.9			47978.55	38.1								
13C3-HFPODA	5.375	137459	36801.80		13C2-PFHxA	5.110	150224	7.5302	ng/ml			
287.0 -> 185.0			5339.05	43.7								
13C2-PFTeDA	8.958	73708	14520.68		13C2-PFDA	7.262	78764	0.9032	ng/ml			
D9-NEtFOSE	10.236	200956	56028.95		13C4-PFOS	7.492	44286	20.9291	ng/ml			
D3-NMeFOSA	10.051	13144	10613.66		13C4-PFOS	7.492	44286	1.3556	ng/ml			
D3-NMeFOSAA	7.274	124296	32618.05		13C4-PFOS	7.492	44286	3.7766	ng/ml			
D5-NEtFOSA	10.362	13558	3533.69		13C4-PFOS	7.492	44286	1.3735	ng/ml			
D5-NEtFOSAA	7.461	64829	4226.74		13C4-PFOS	7.492	44286	3.9345	ng/ml			
D7-NMeFOSE	9.890	155412	87392.41		13C4-PFOS	7.492	44286	17.3200	ng/ml			

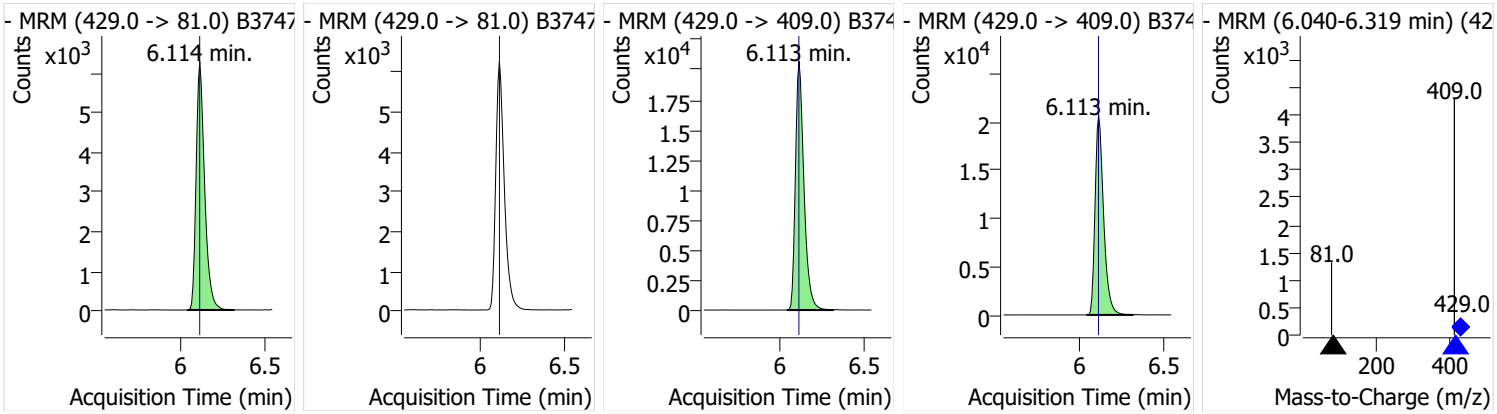
11Cl-PF3OUdS



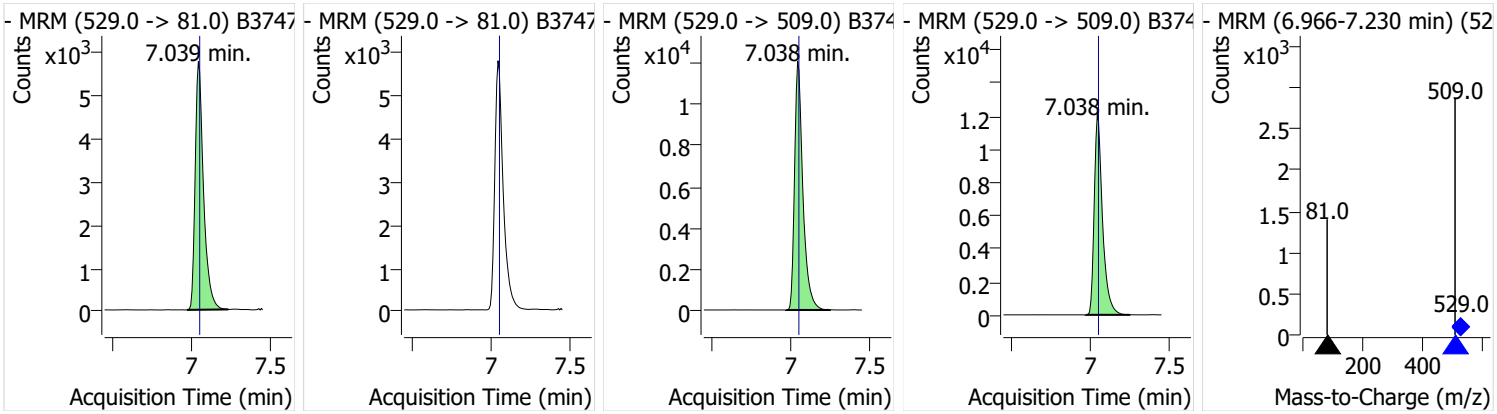
13C2-4:2FTS - ISTD



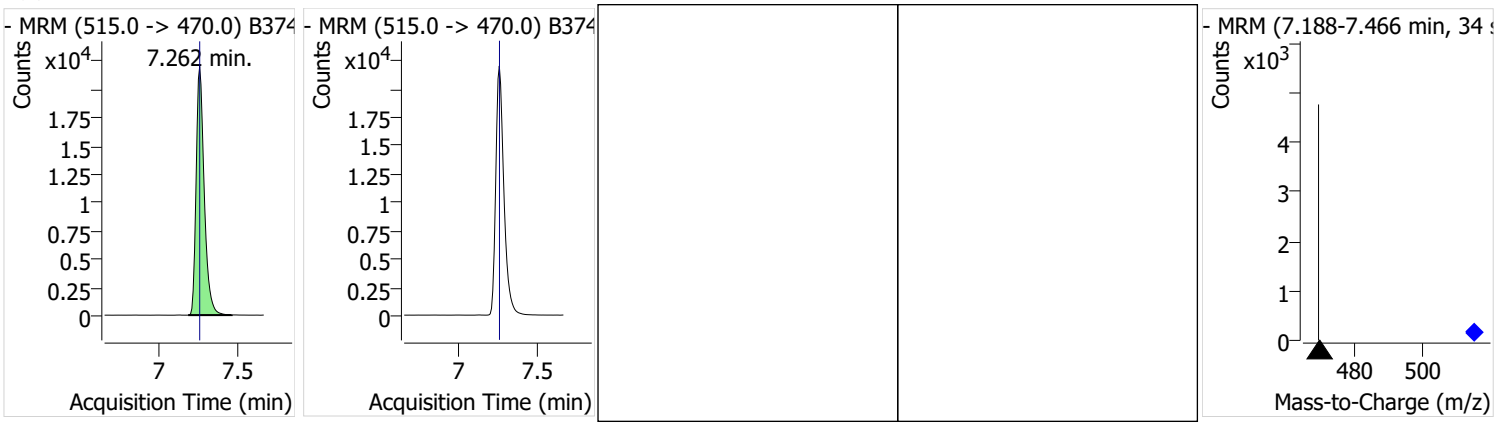
13C2-6:2FTS - ISTD



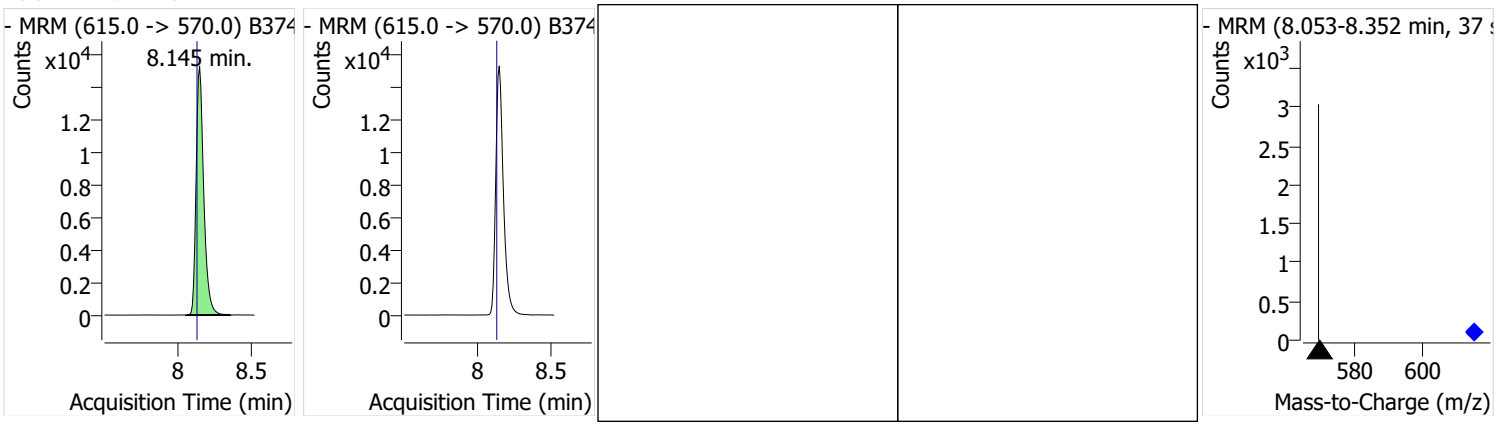
13C2-8:2FTS - ISTD



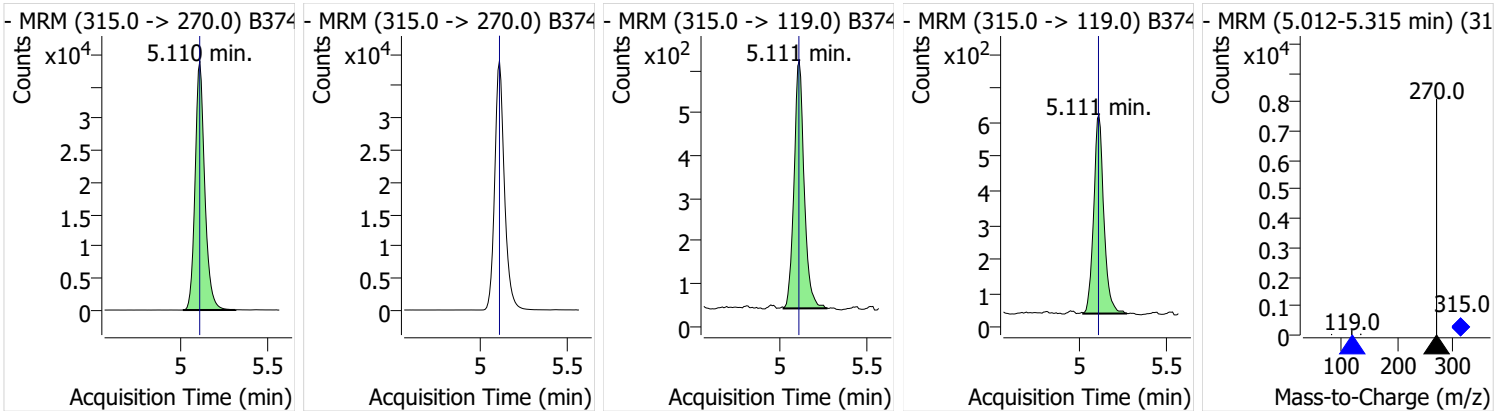
13C2-PFDA



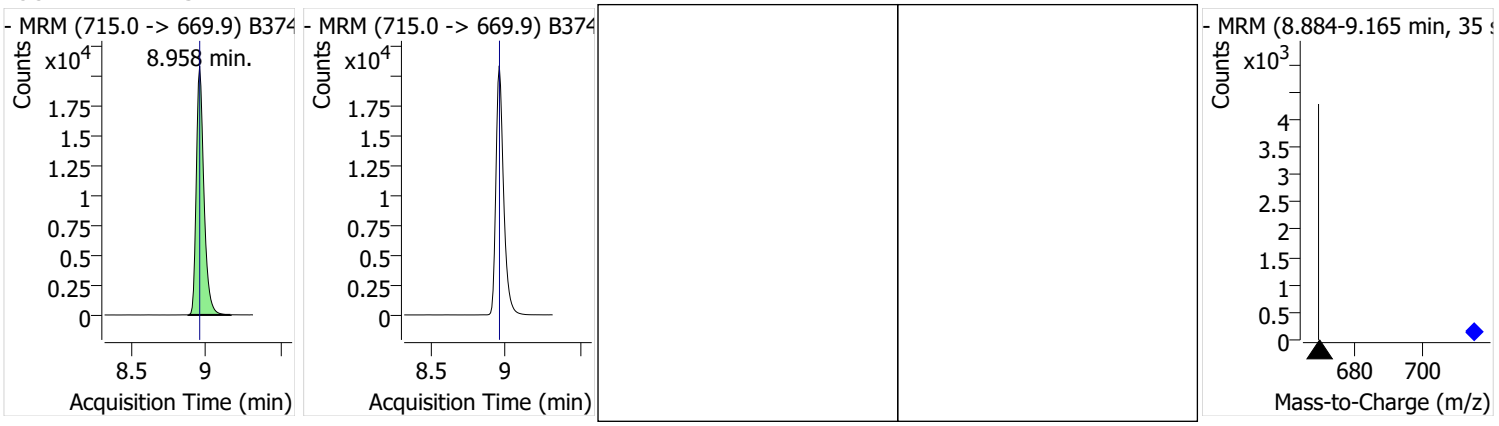
13C2-PFDoA - ISTD



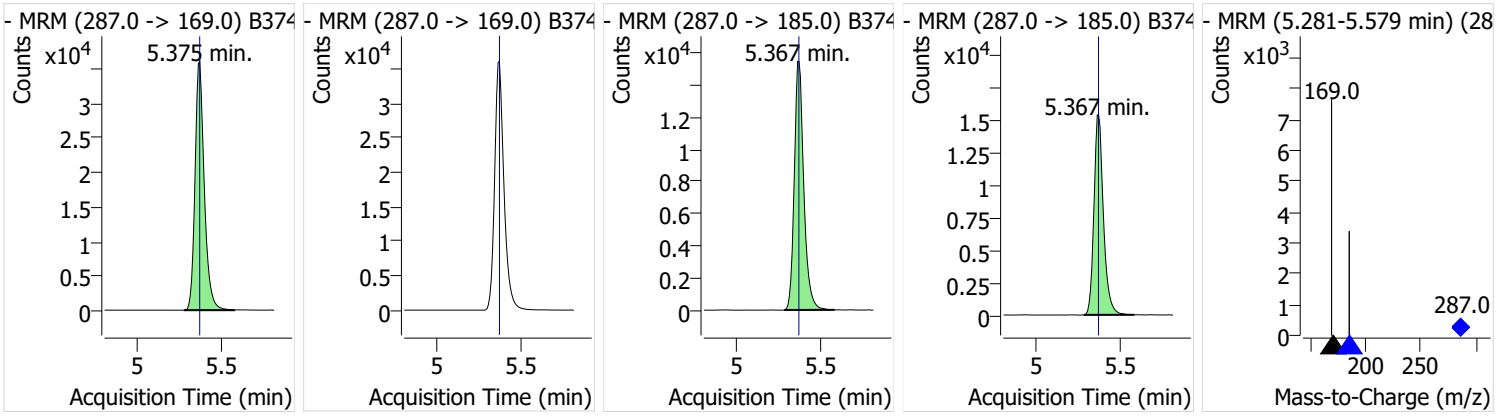
13C2-PFHxA



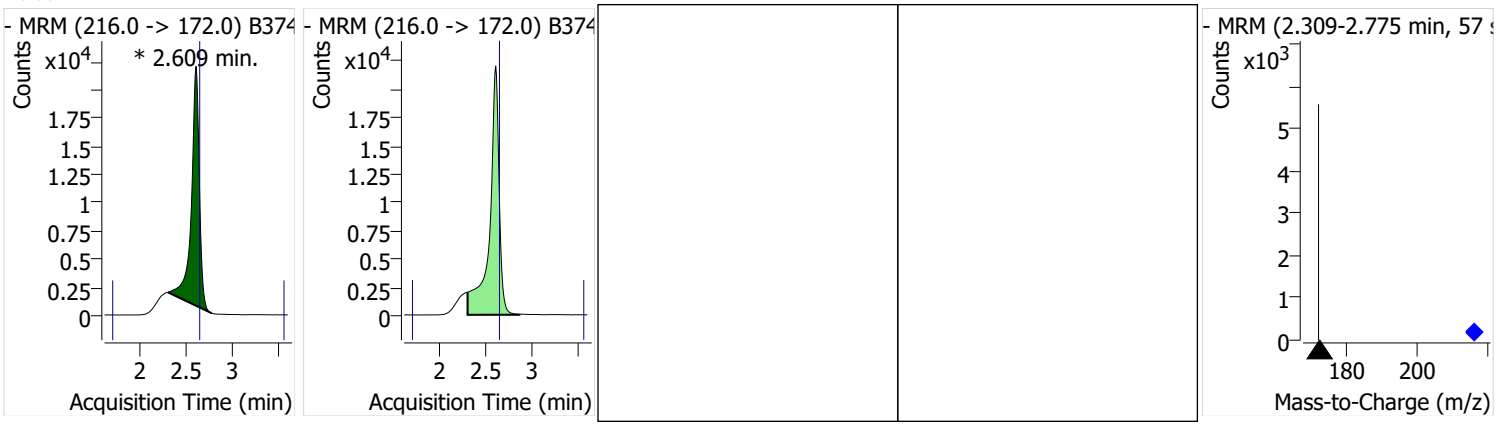
13C2-PFTeDA - ISTD



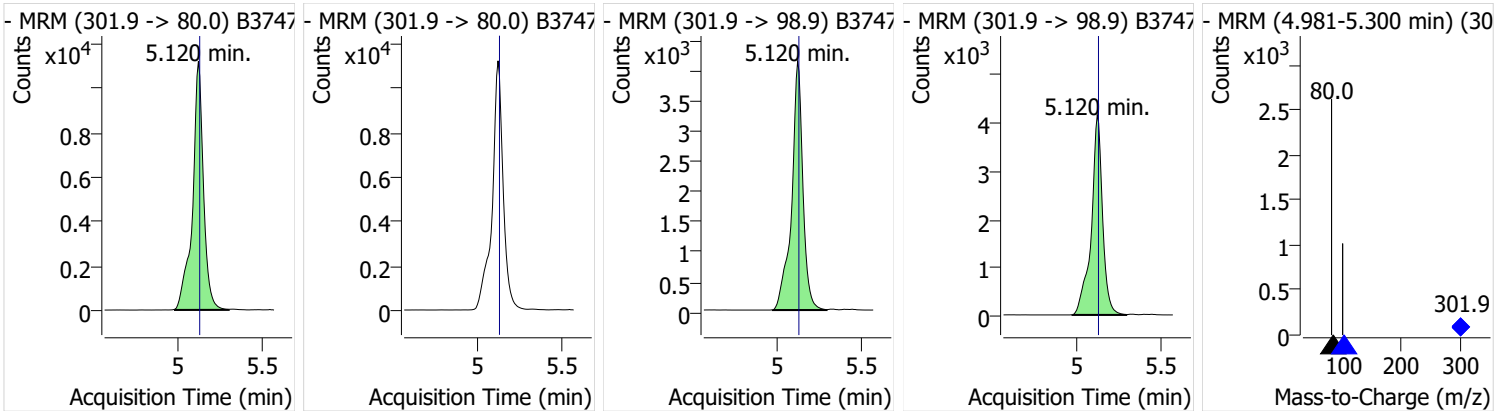
13C3-HFPODA - ISTD



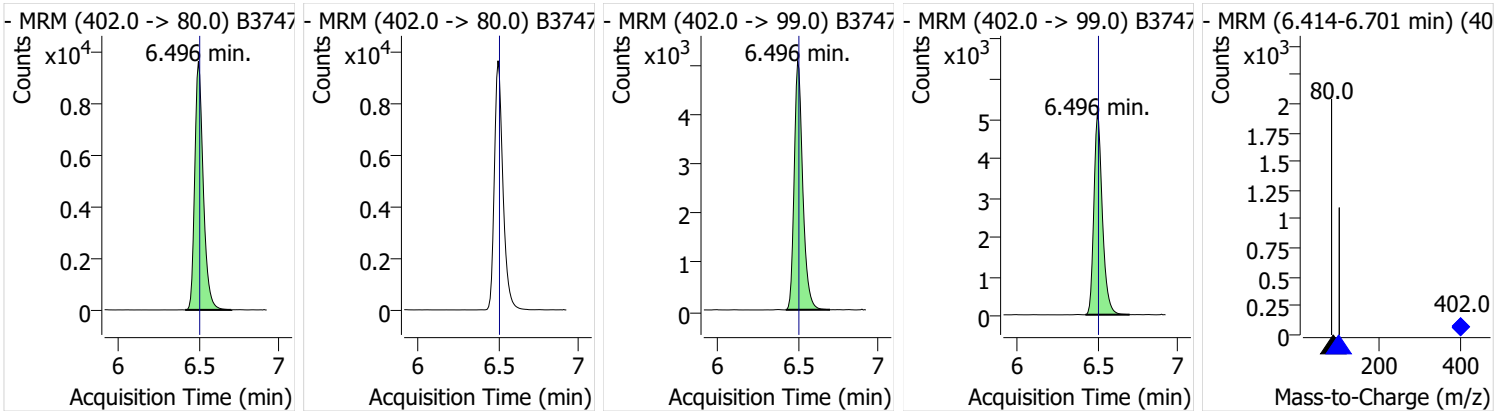
13C3-PFBA



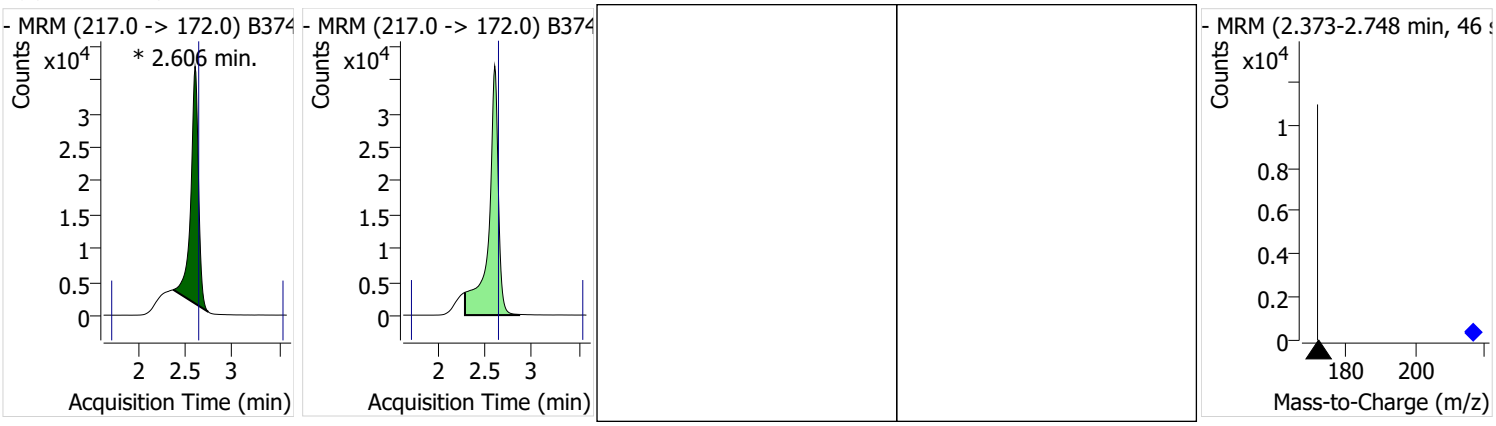
13C3-PFBS - ISTD



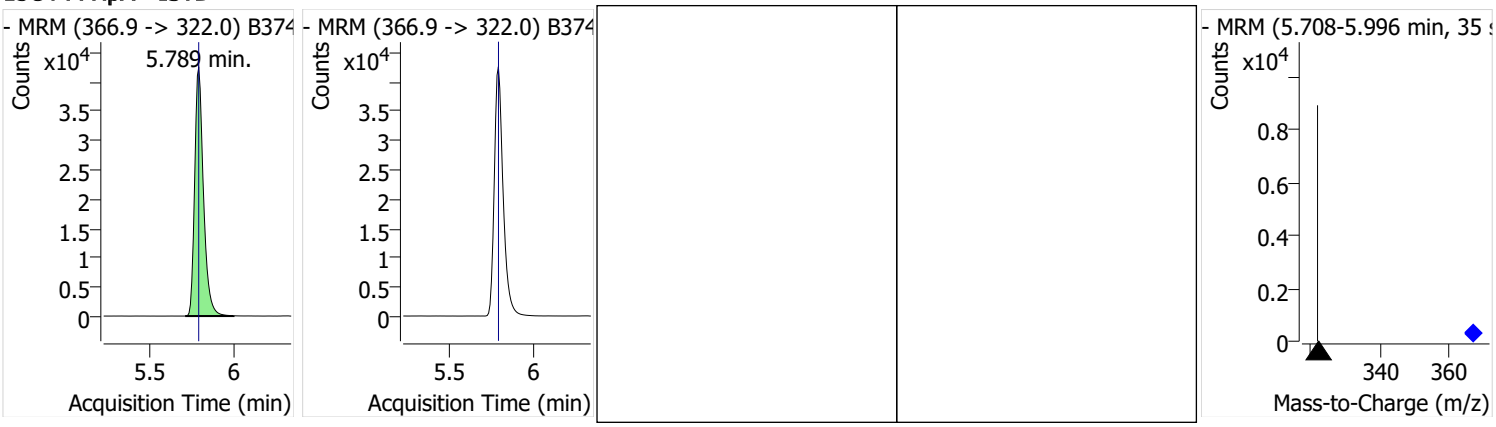
13C3-PFHxS - ISTD



13C4-PFBA - ISTD



13C4-PFHpA - ISTD



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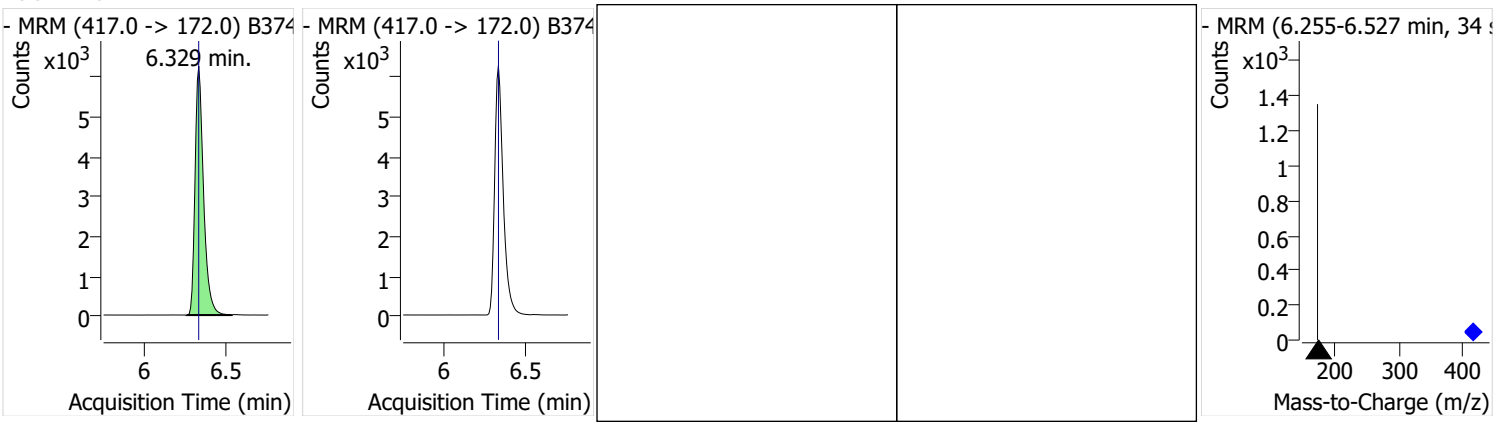
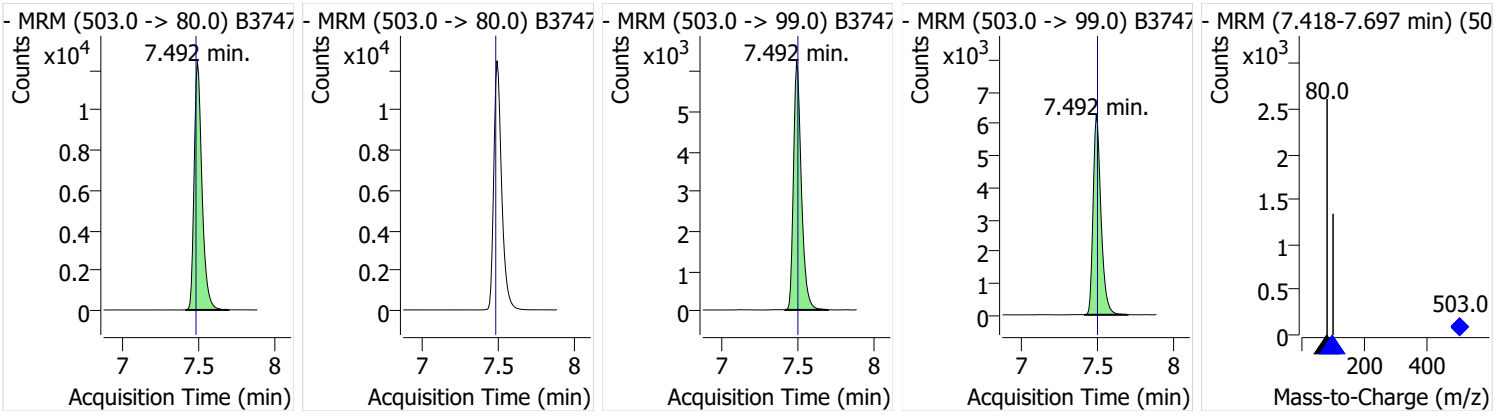
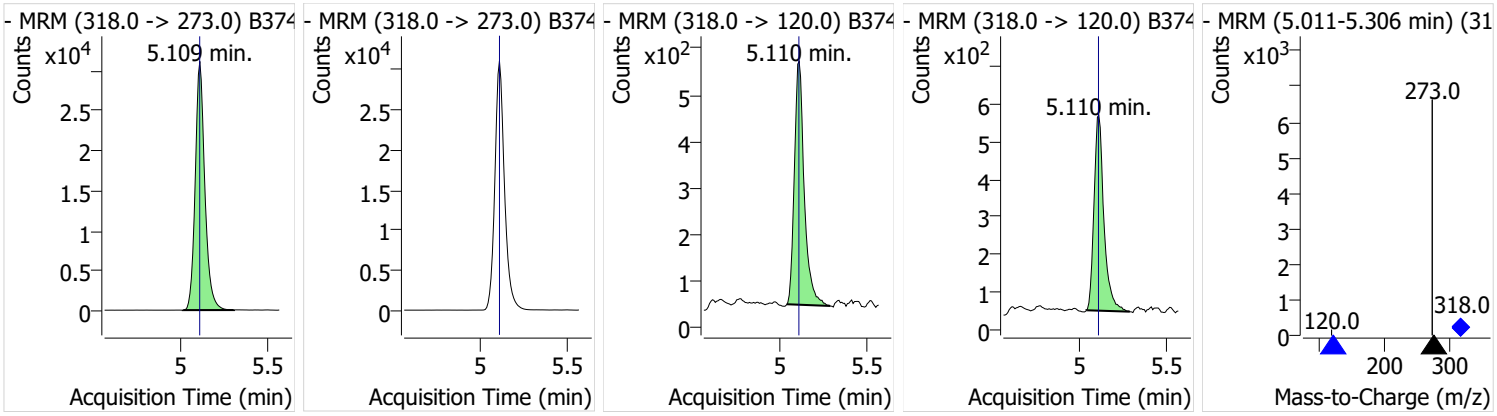


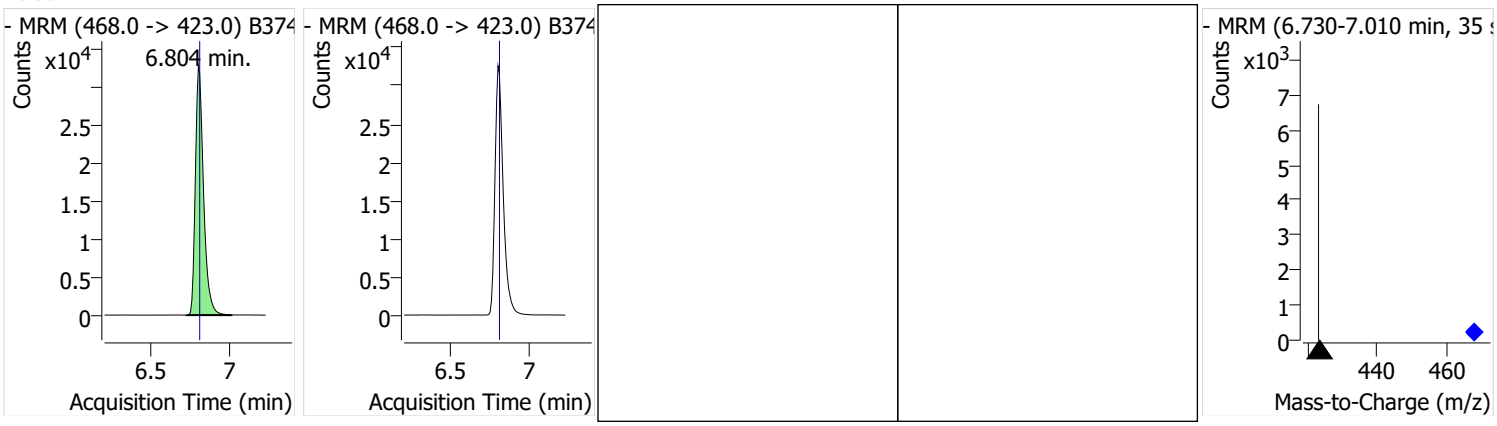
13C4-PFOS



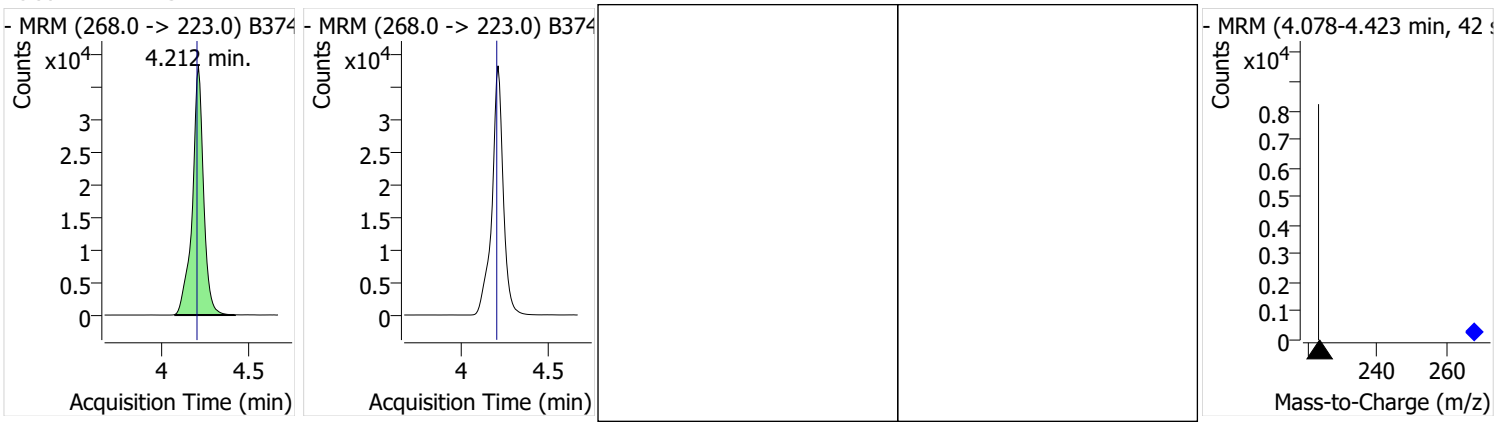
13C5-PFHxA - ISTD



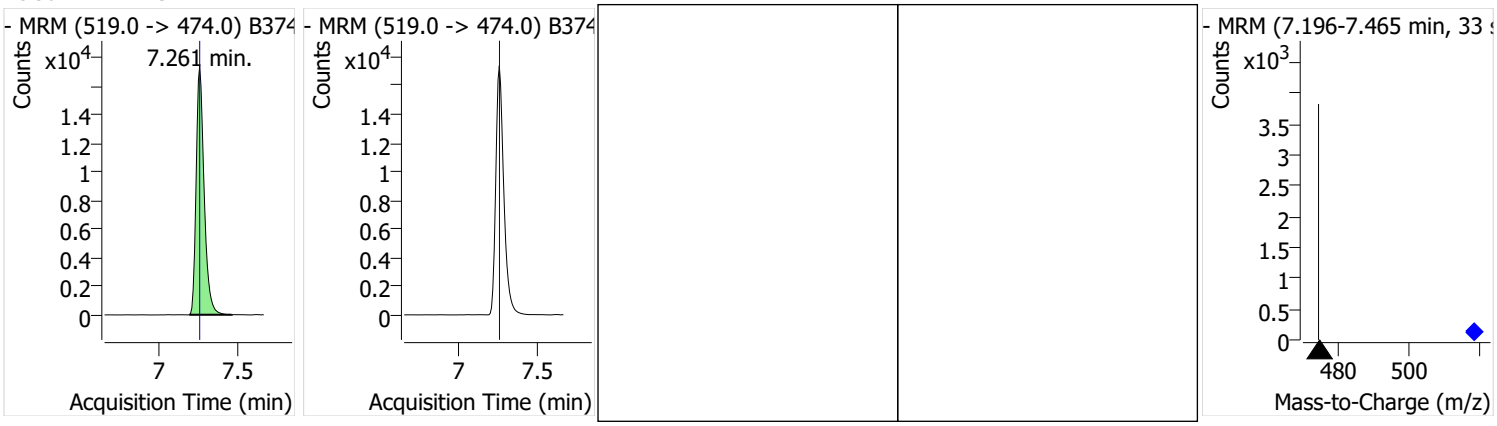
13C5-PFNA



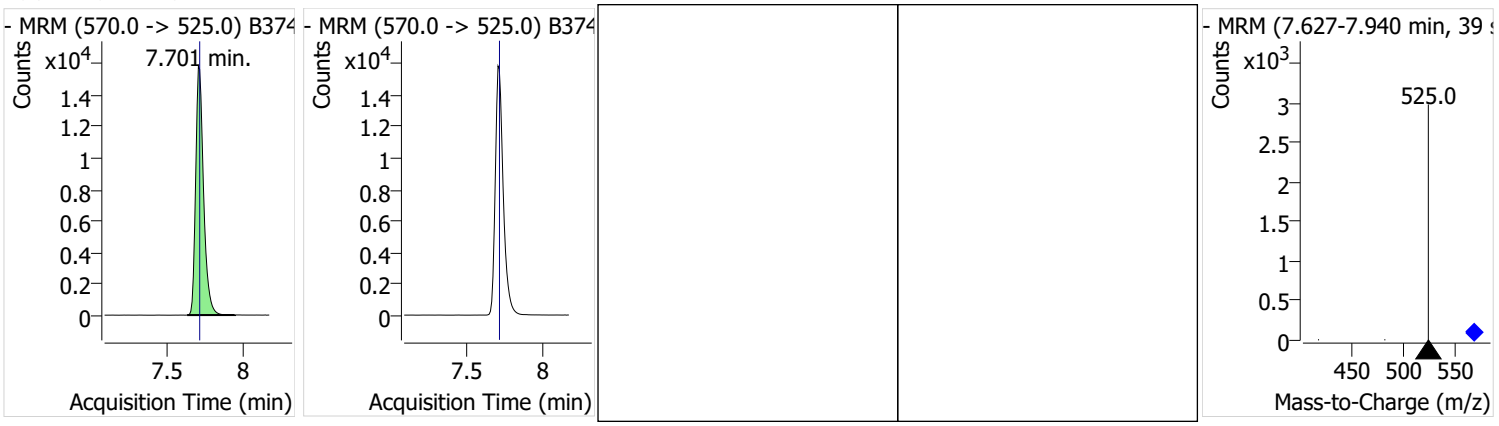
13C5-PFPeA - ISTD



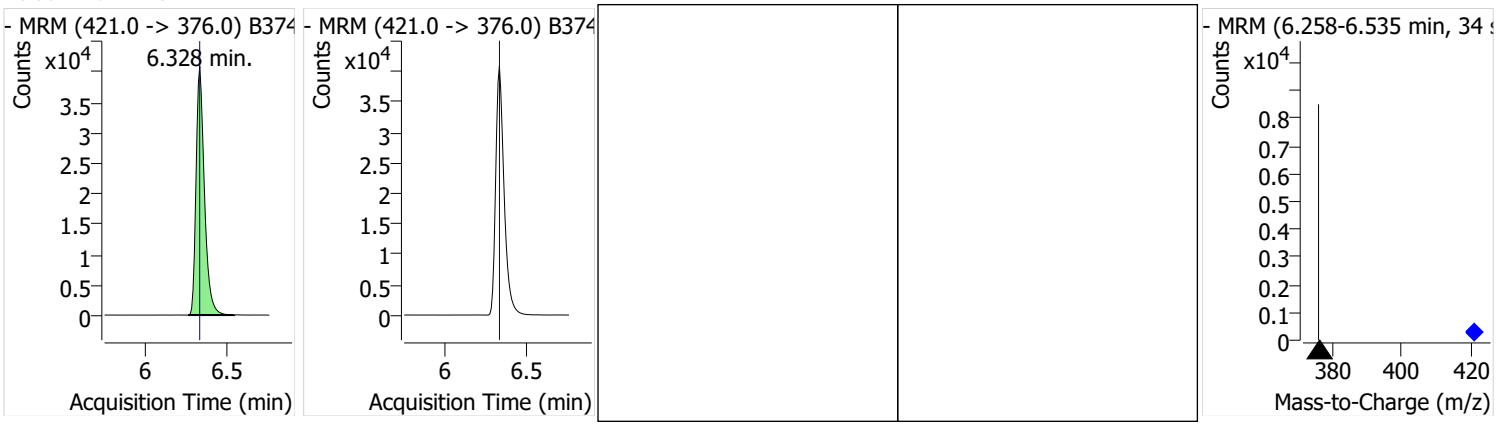
13C6-PFDA - ISTD



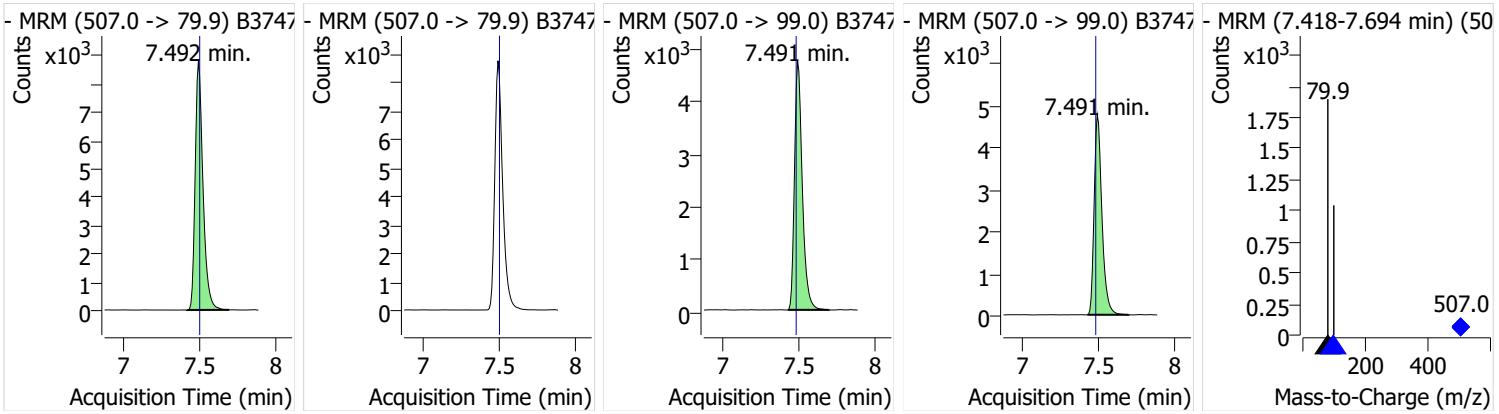
13C7-PFUnA - ISTD



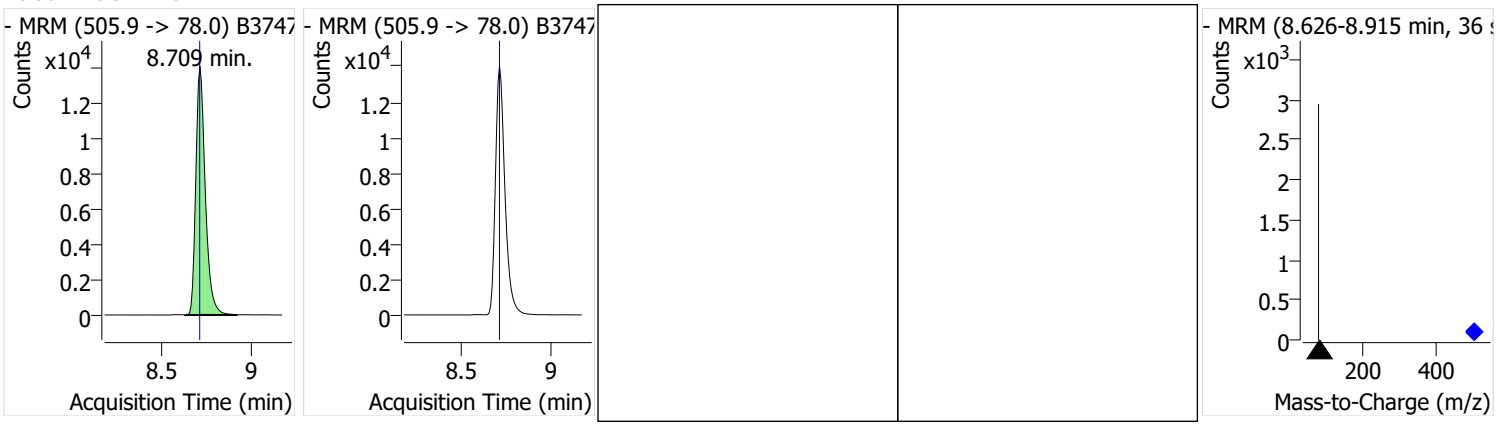
13C8-PFOA - ISTD



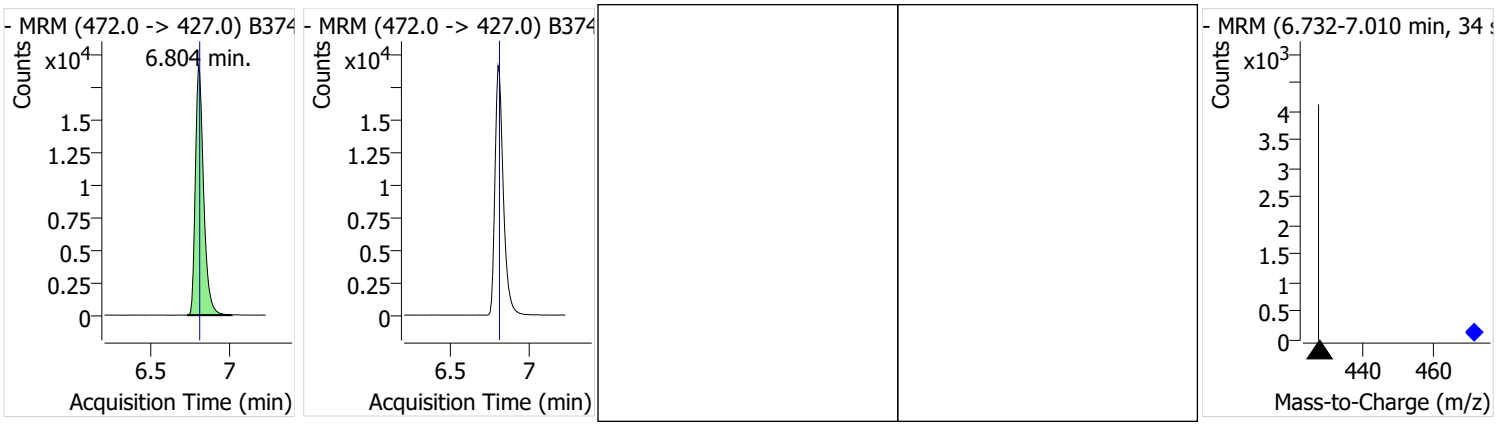
13C8-PFOS - ISTD



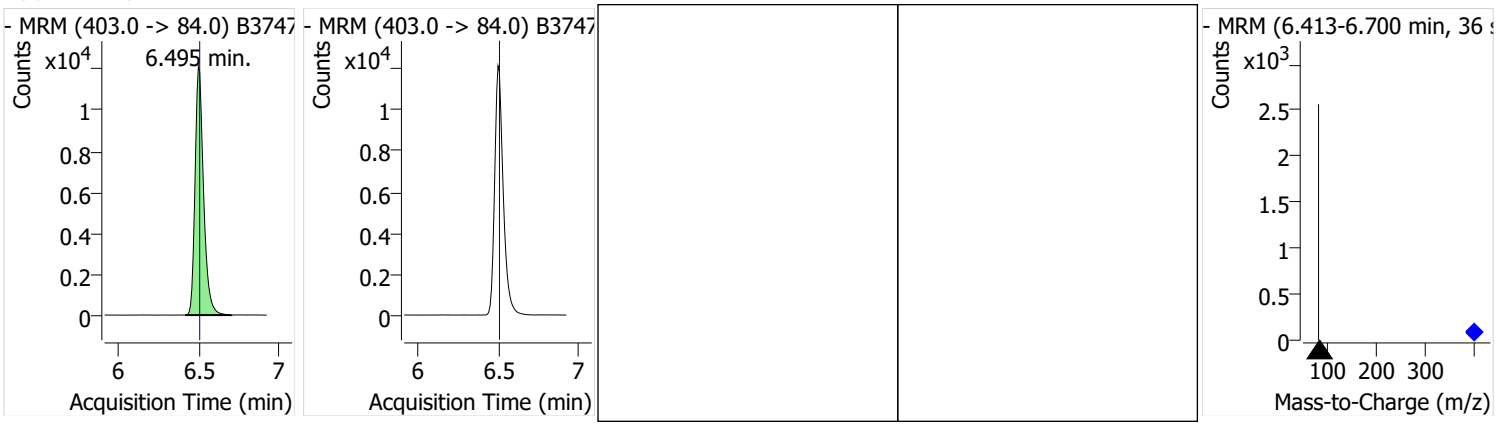
13C8-PFOSA - ISTD



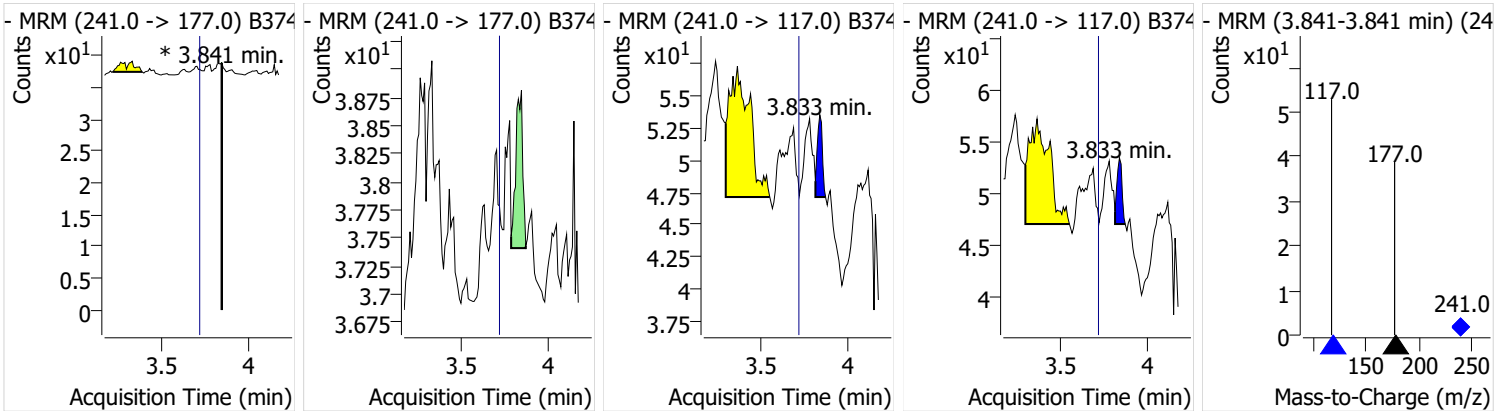
13C9-PFNA - ISTD



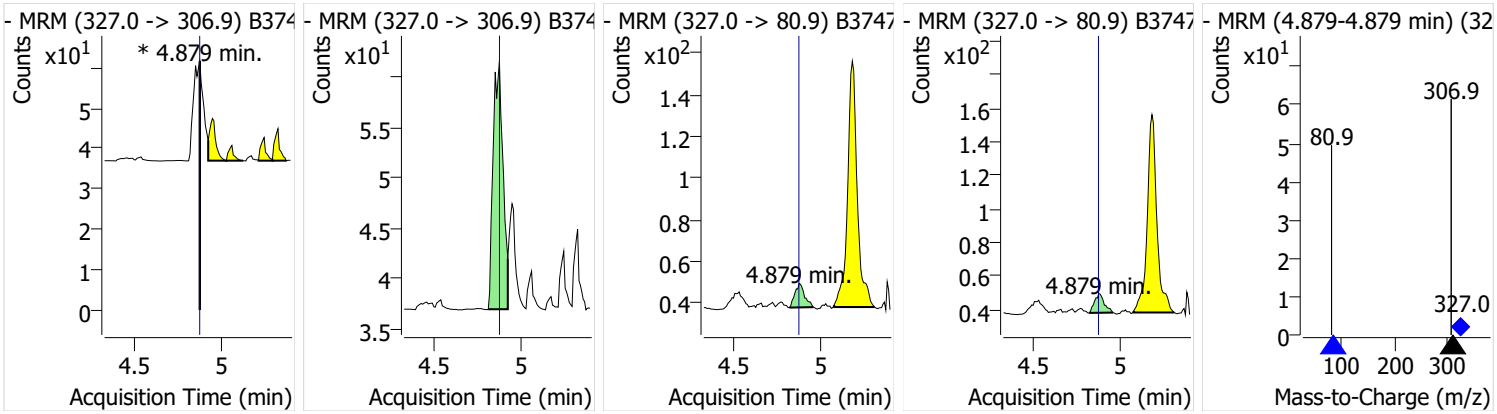
18O2-PFHxS



3:3FTCA



4:2FTS



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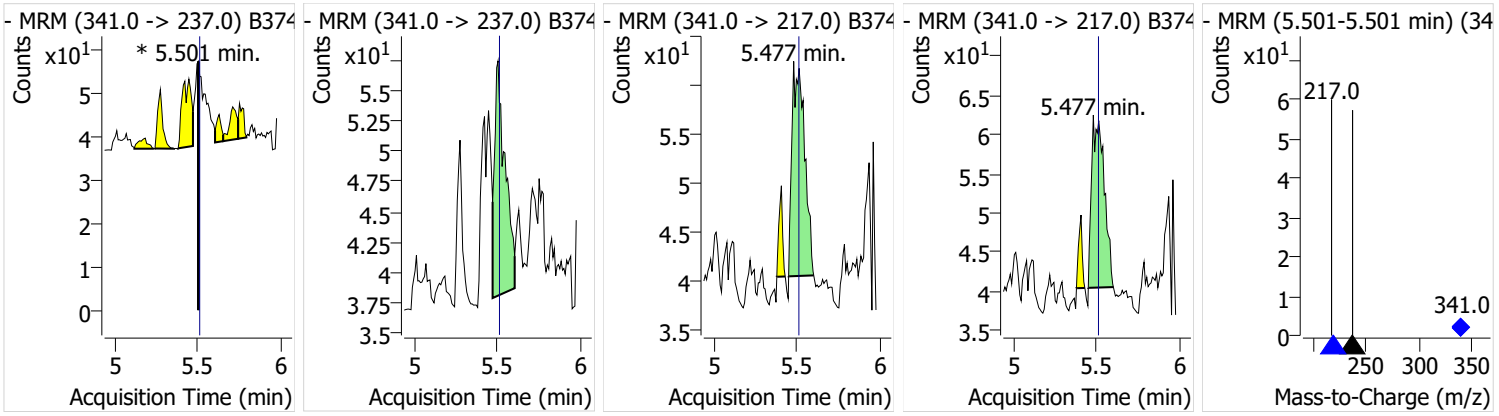
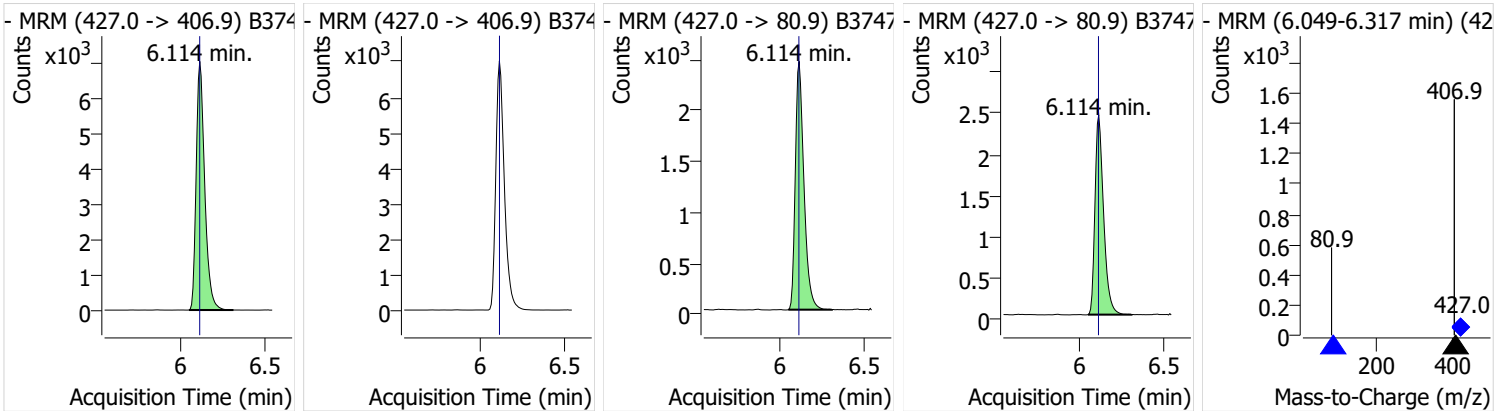
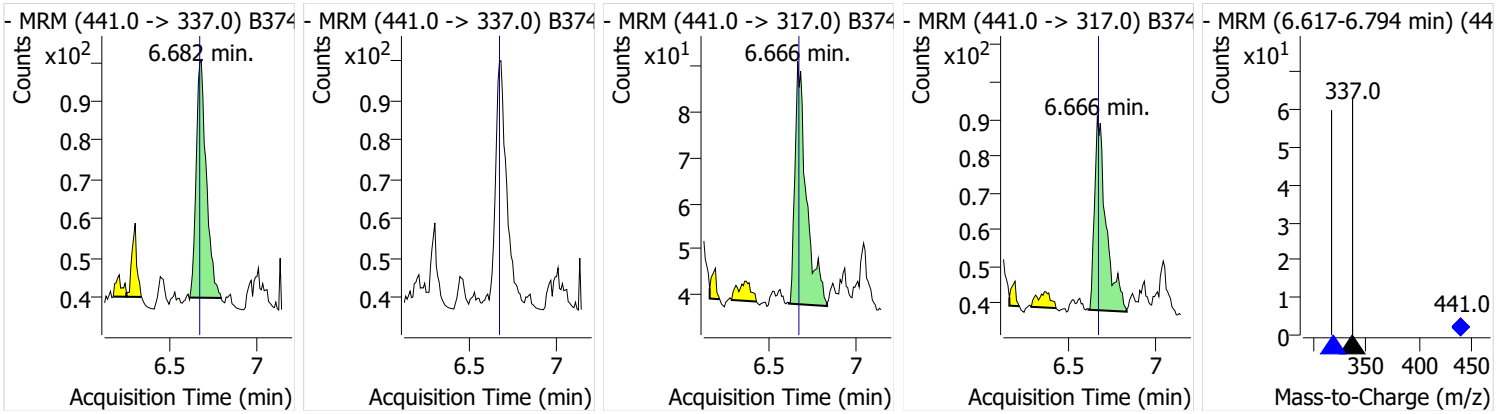


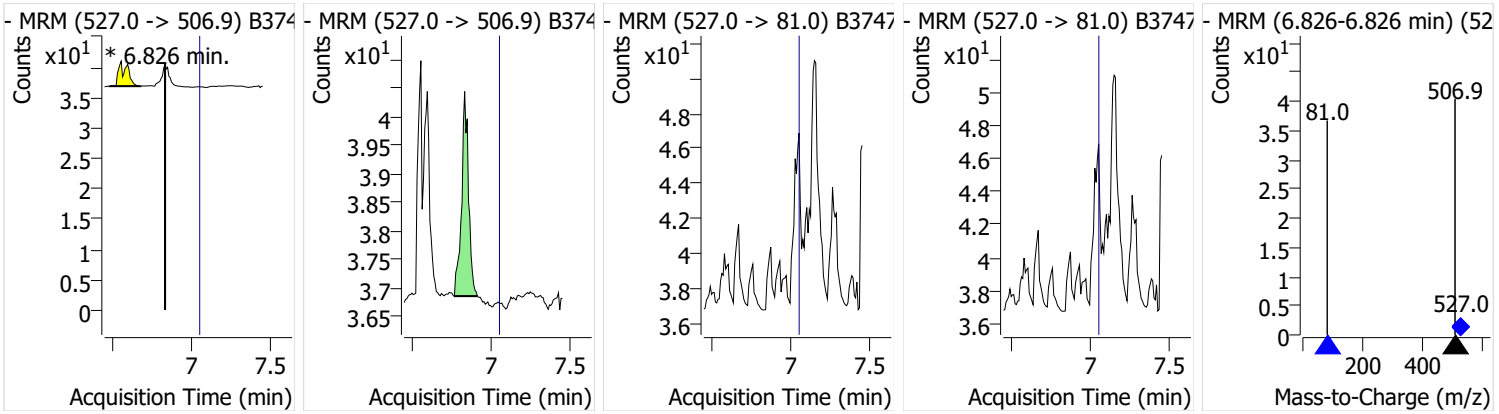
6:2FTS



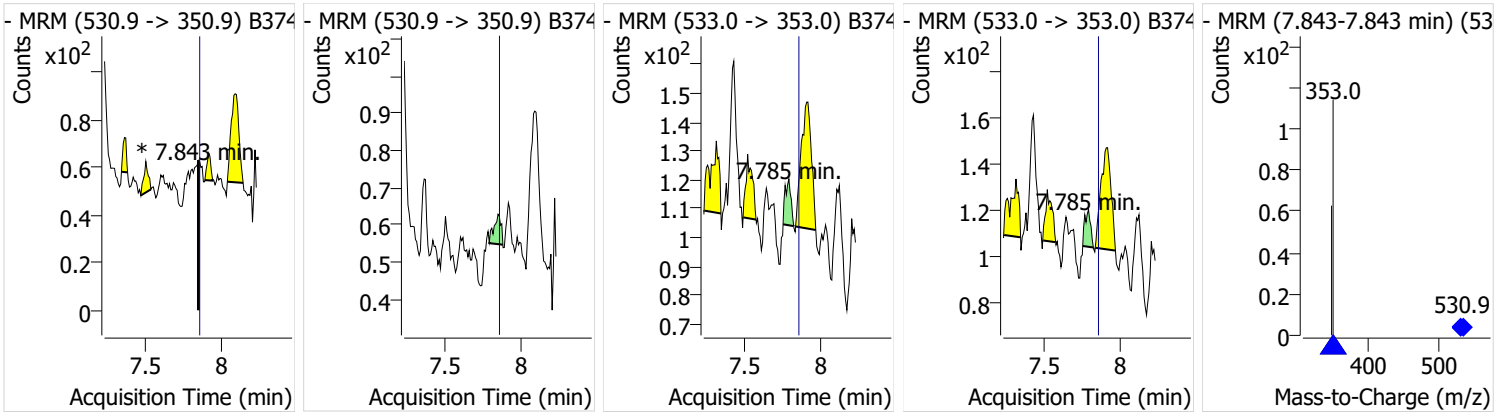
7:3FTCA



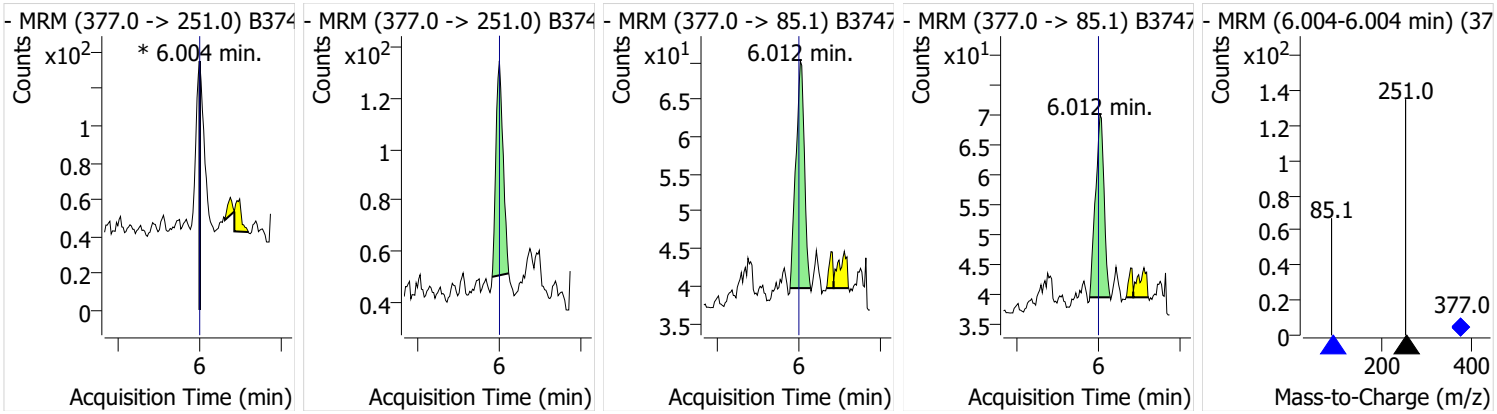
8:2FTS



9Cl-PF3ONS

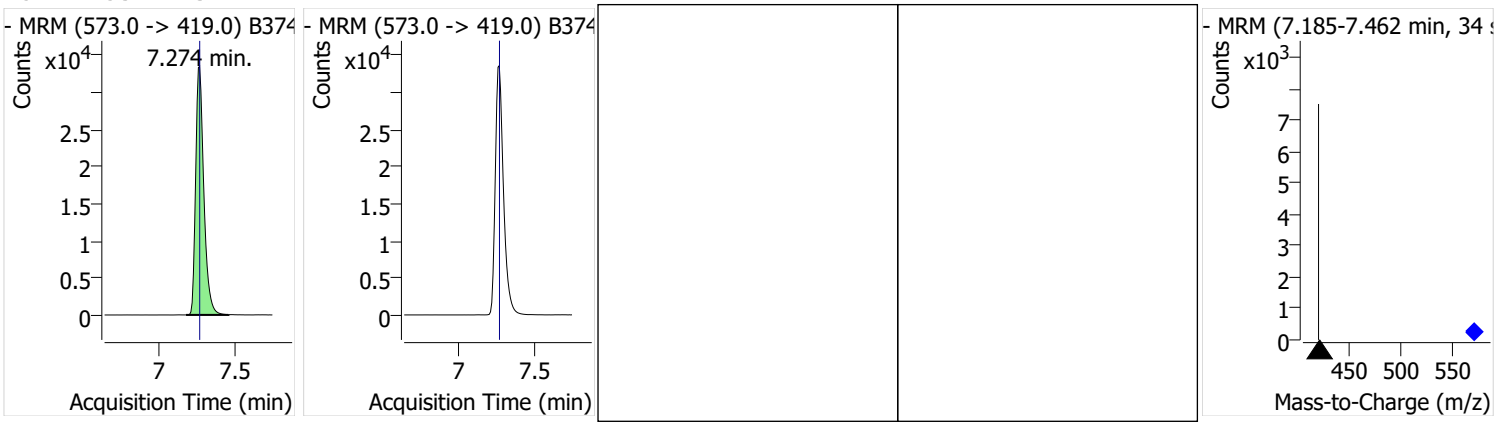


ADONA

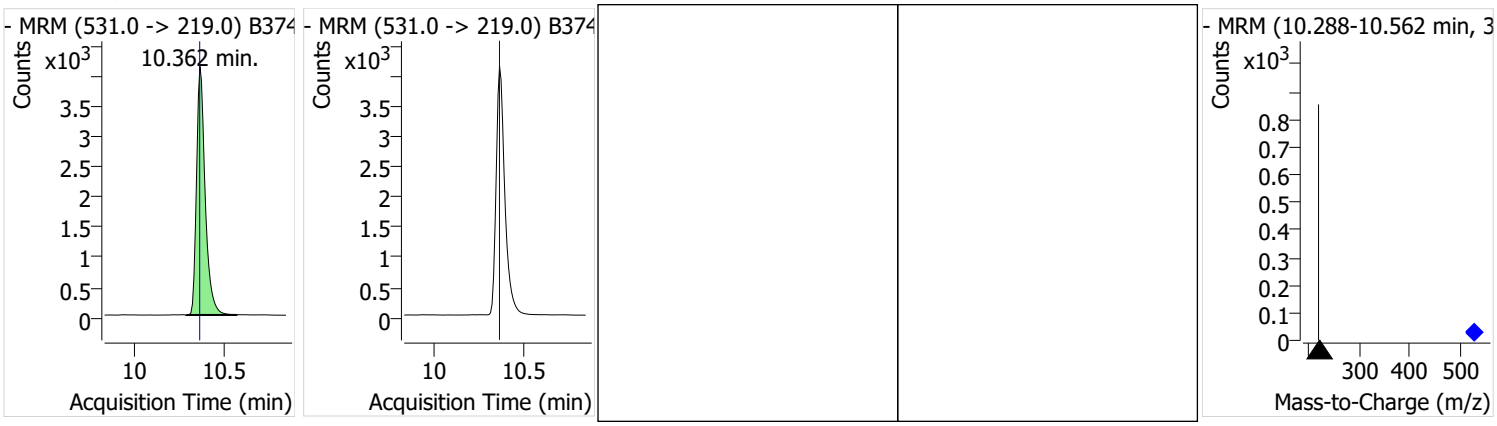


D3-NMeFOSA - ISTD

D3-NMeFOSAA - ISTD

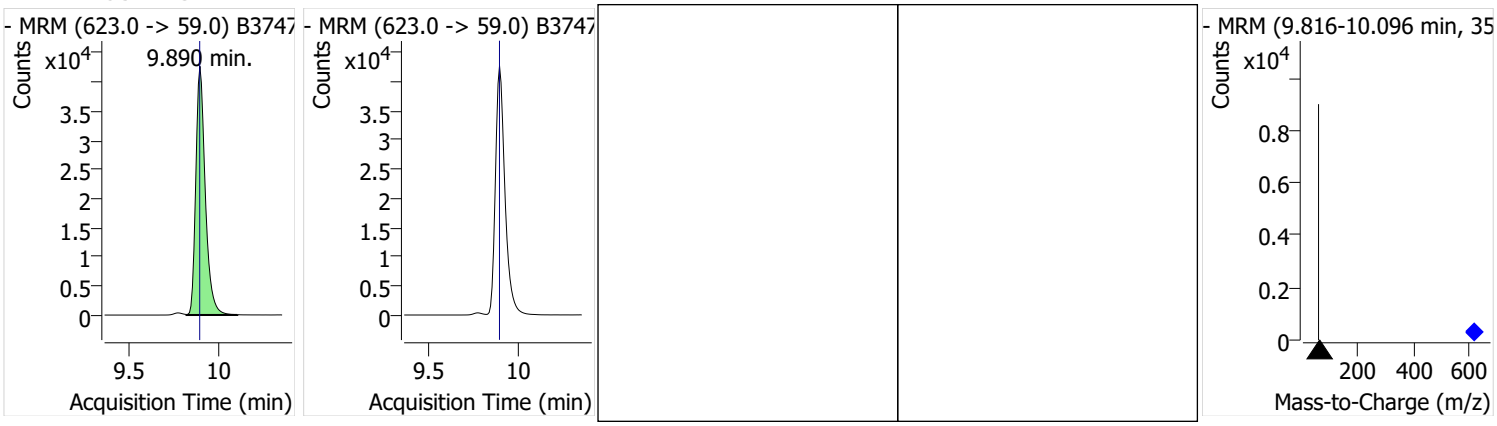


D5-NEtFOSA - ISTD

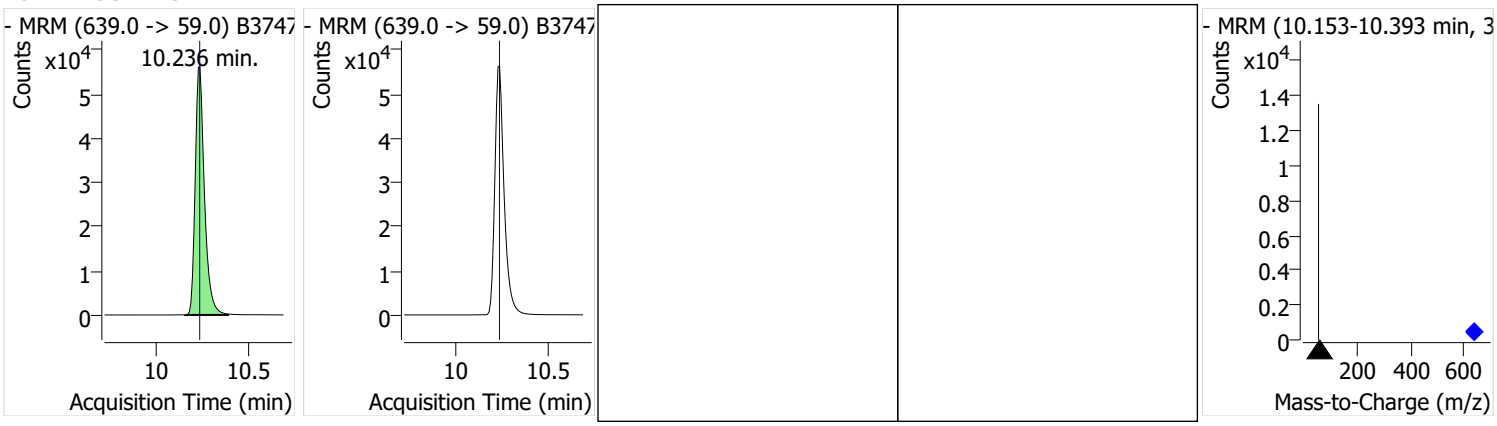


D5-NEtFOSAA - ISTD

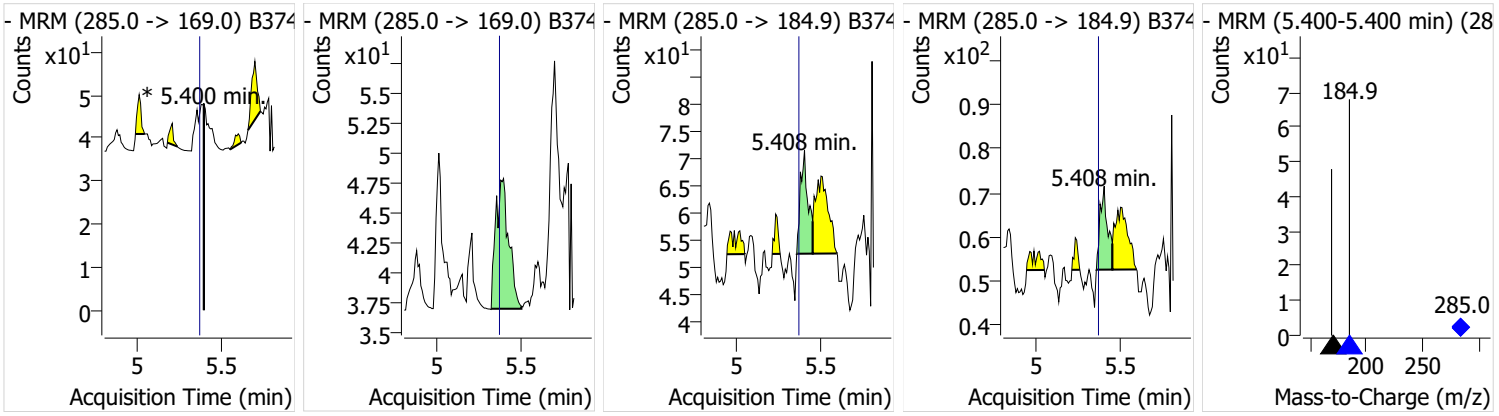
D7-NMeFOSE - ISTD



D9-NEtFOSE - ISTD



HFPO-DA



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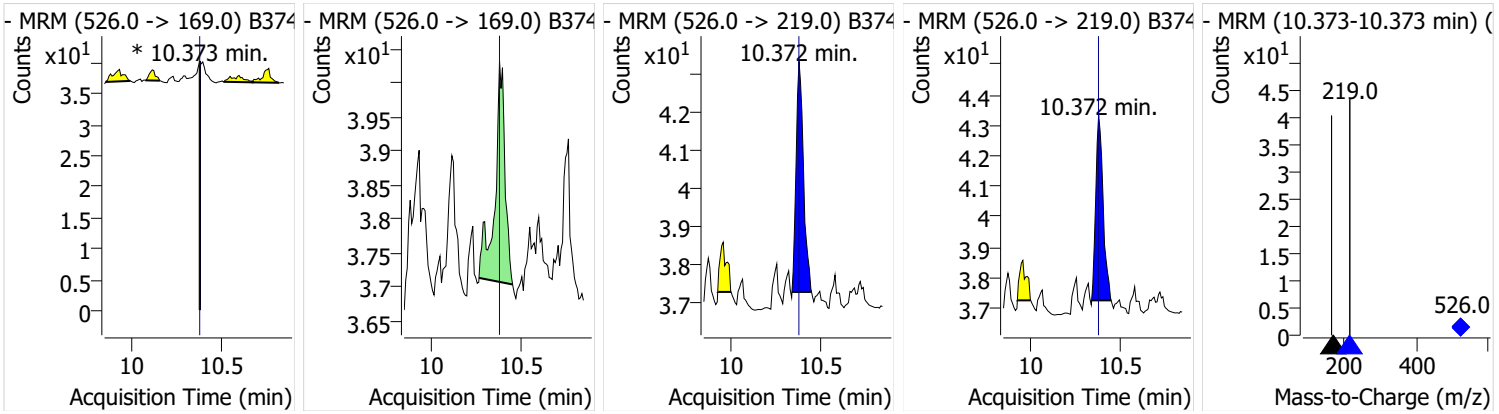
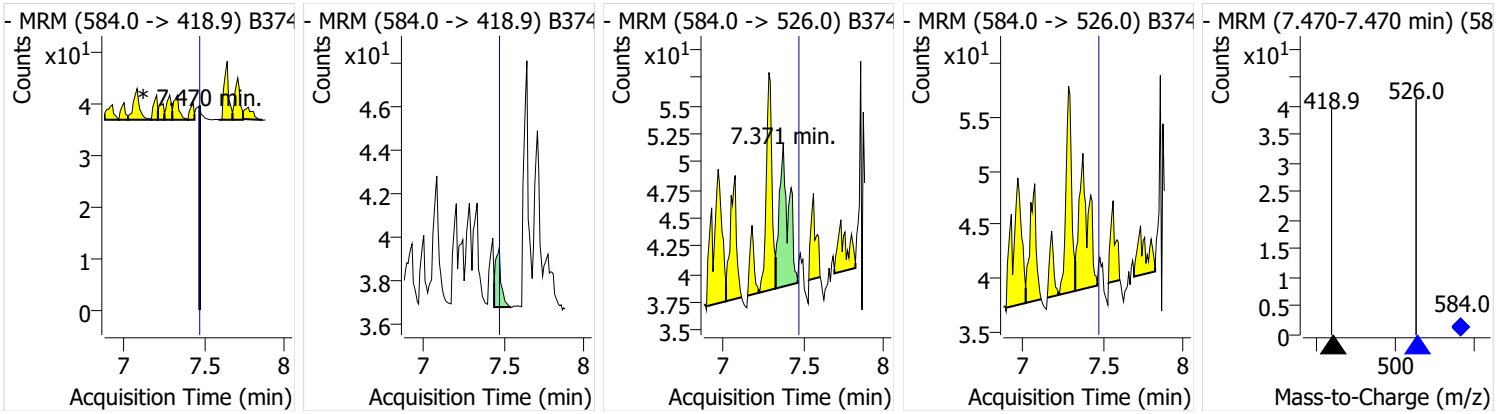
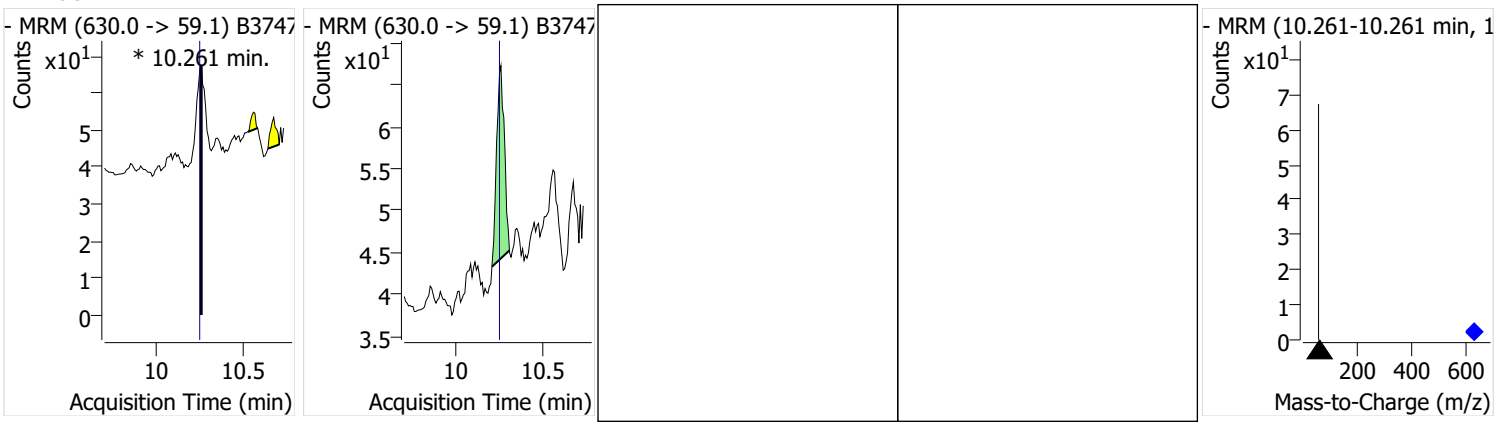


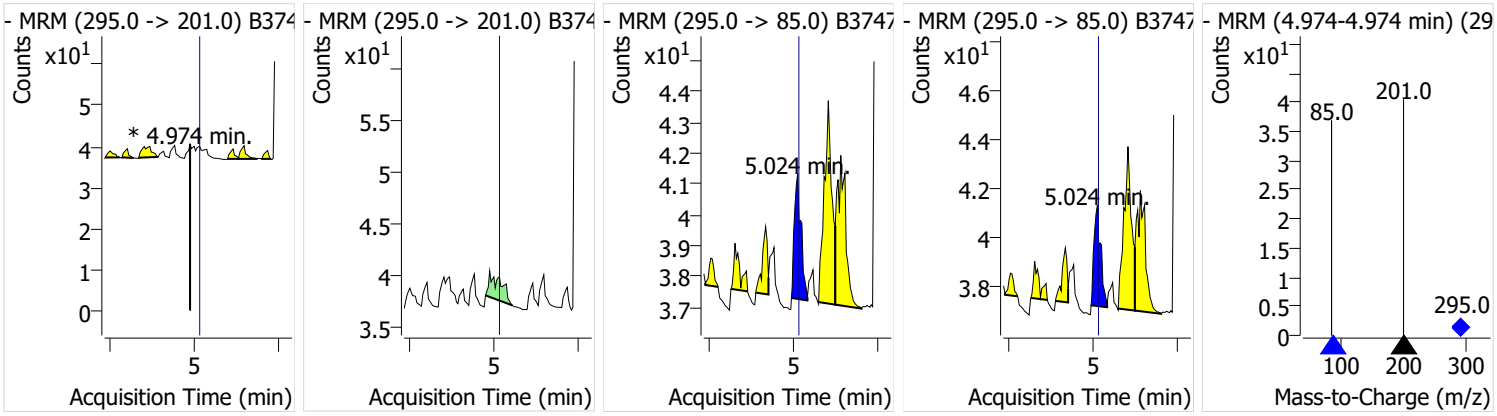
NEtFOSAA



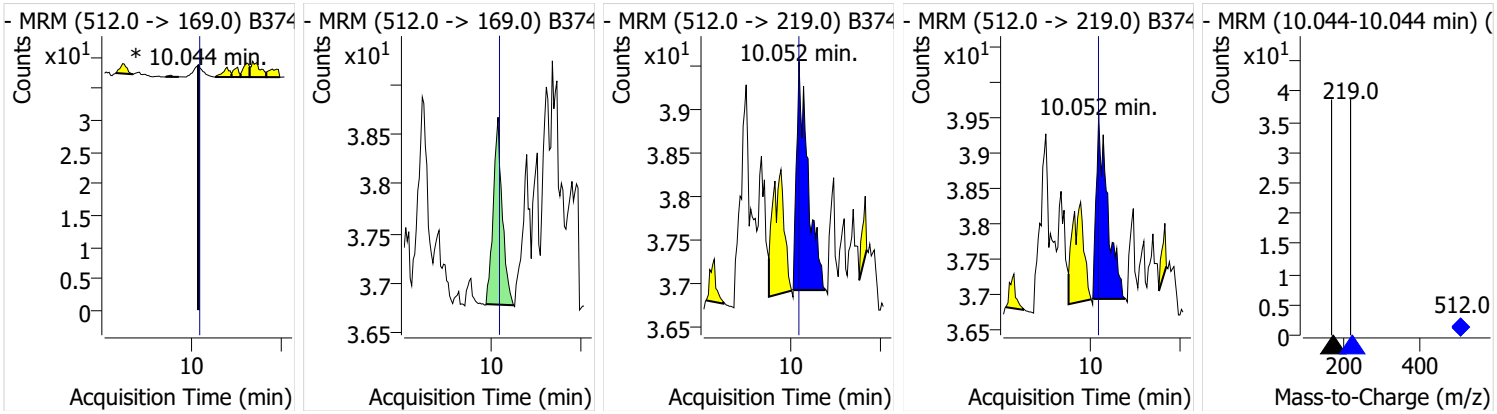
NEtFOSE



NFDHA



NMeFOSA



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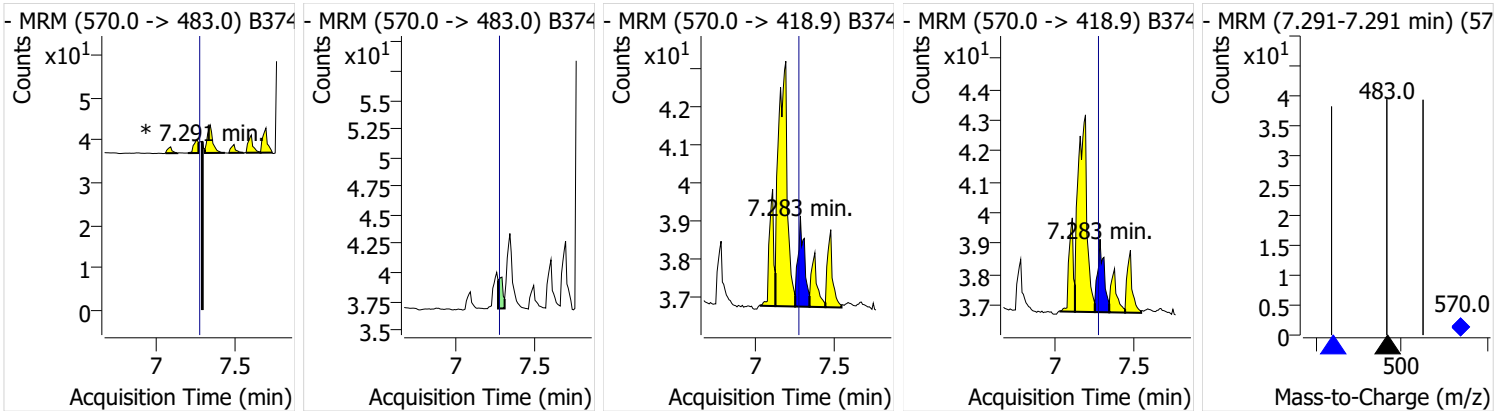
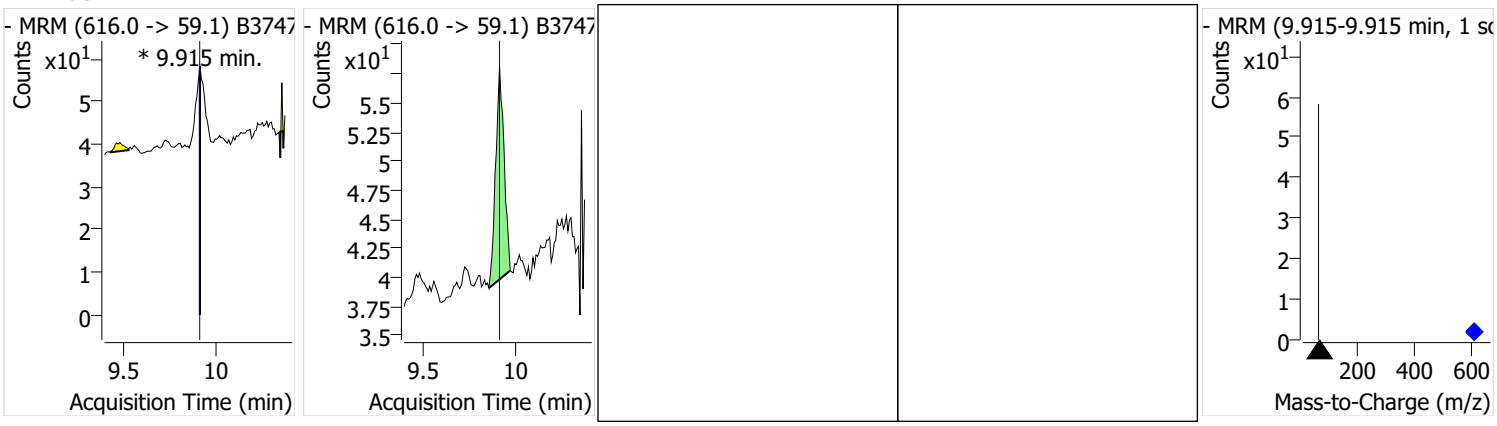
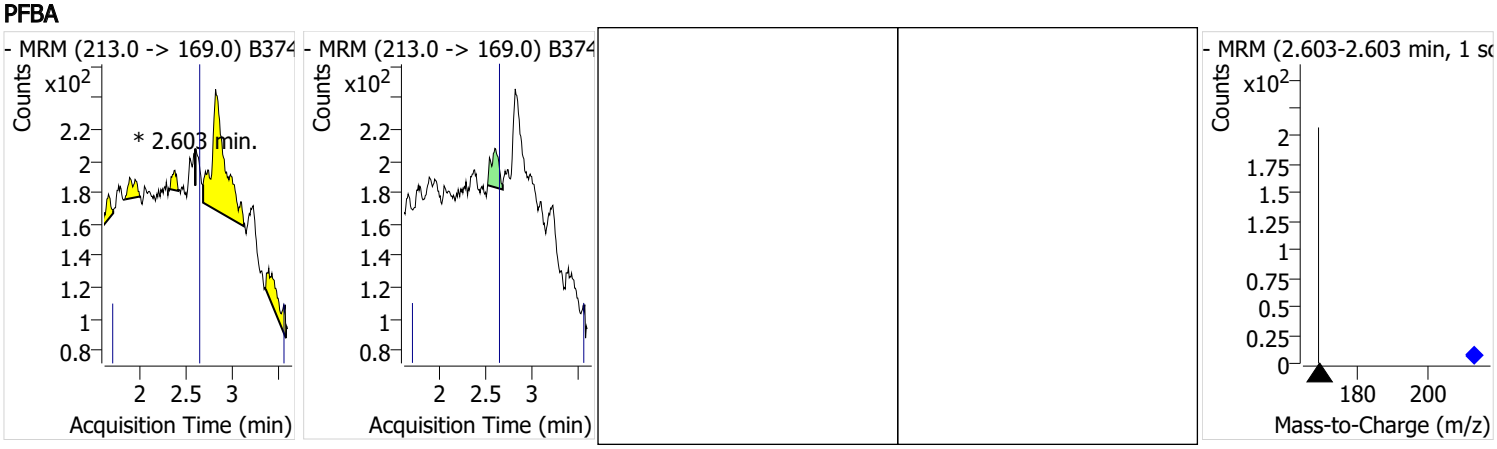


NMeFOSE



PFBA



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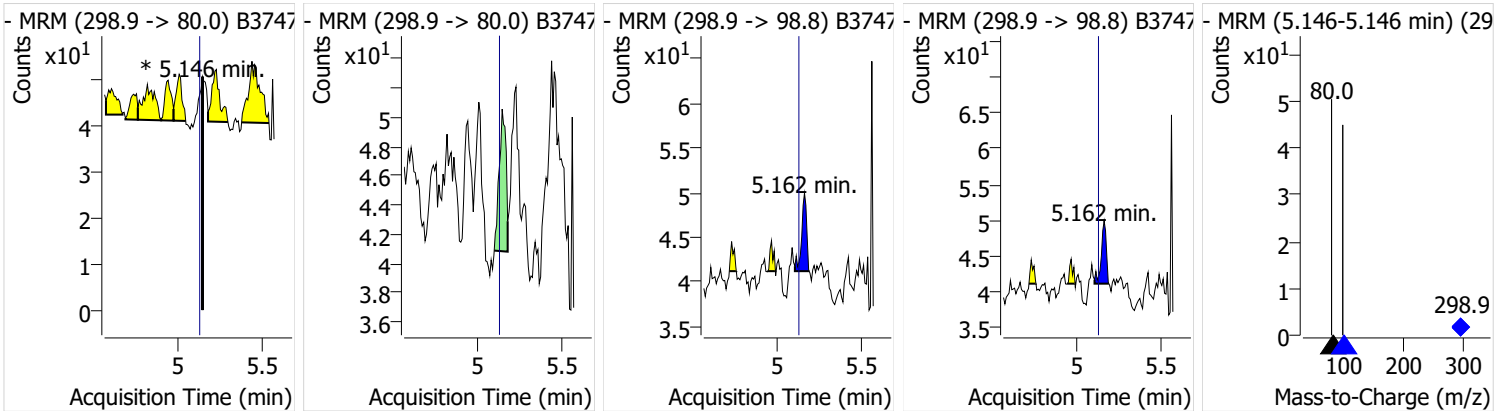

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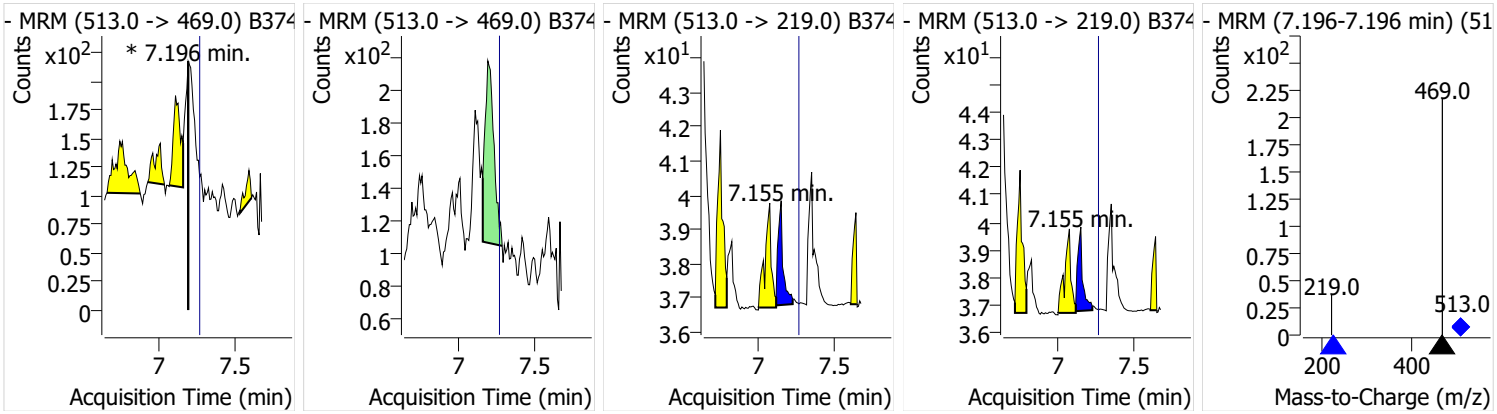

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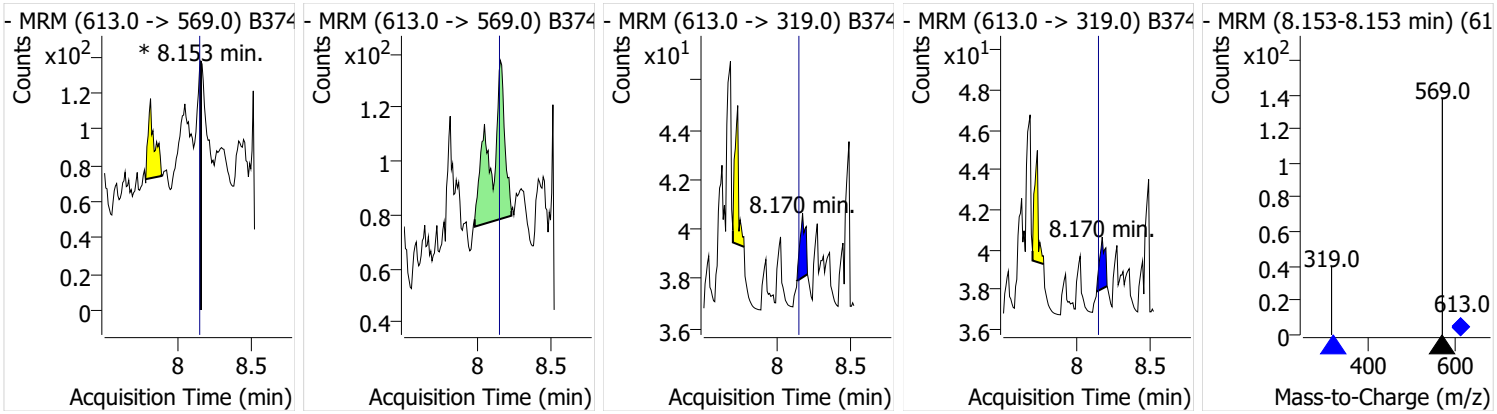

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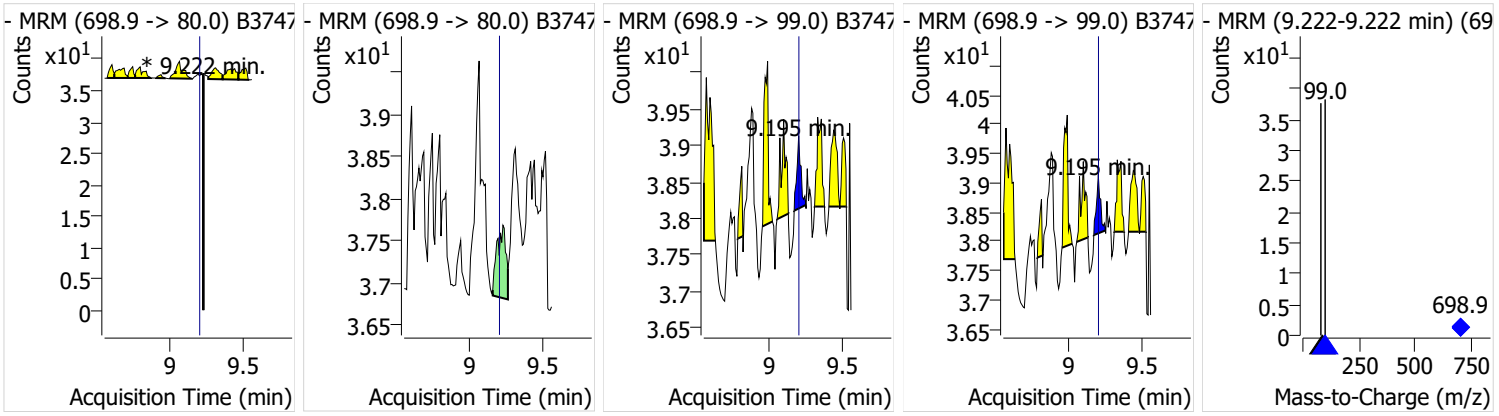

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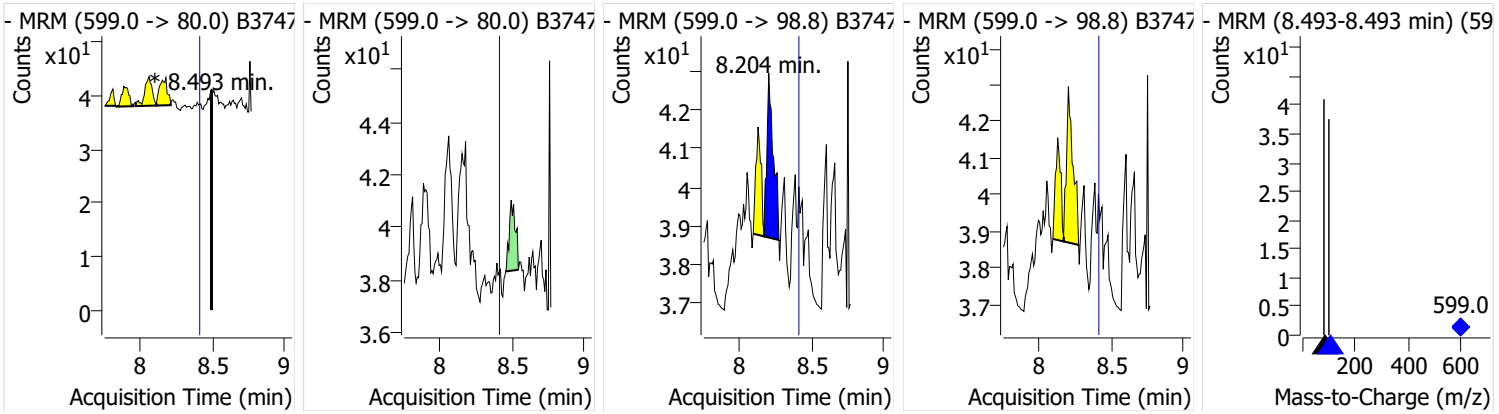

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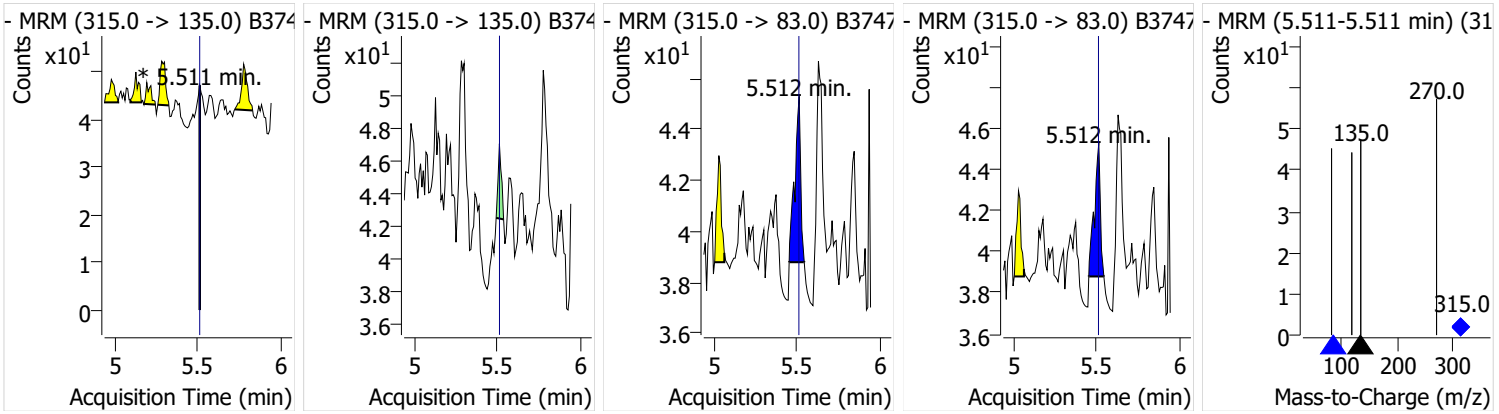

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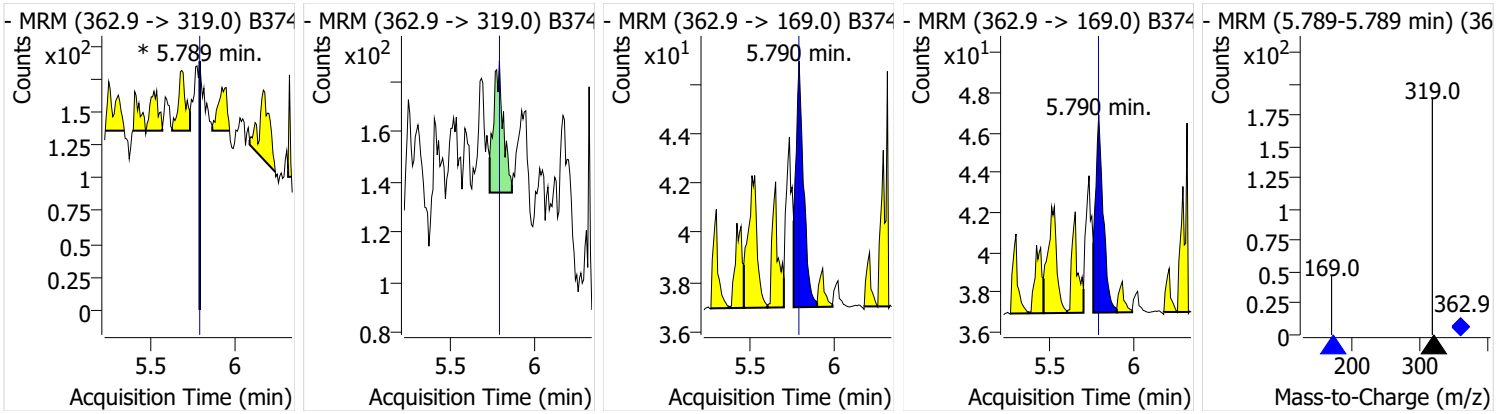

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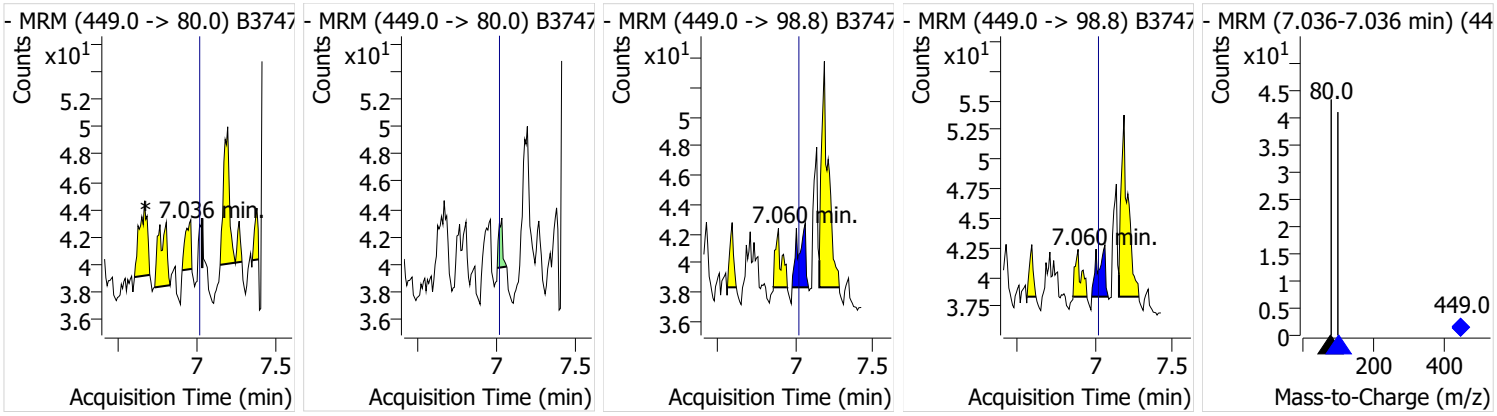

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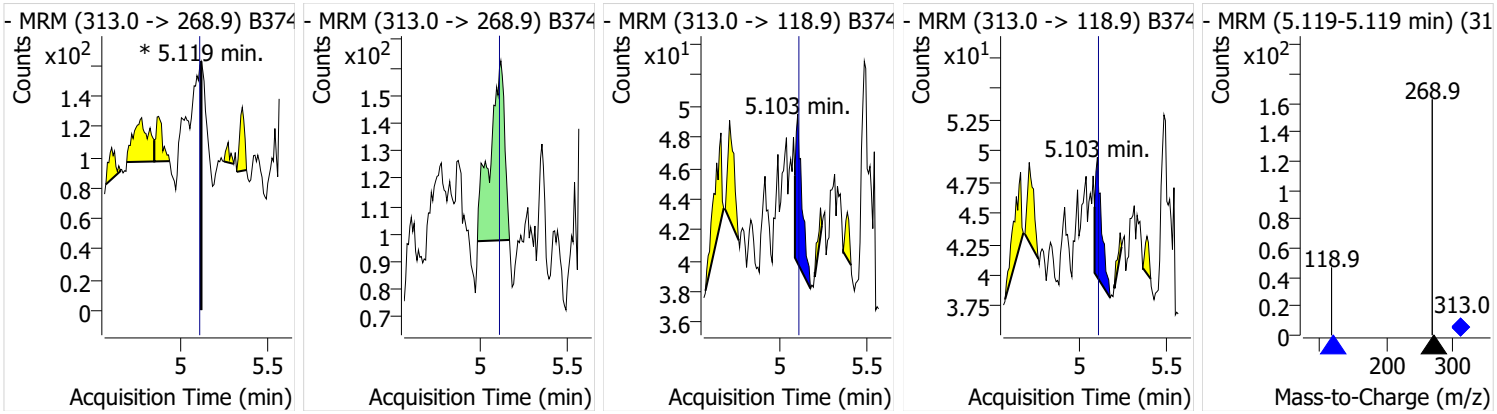

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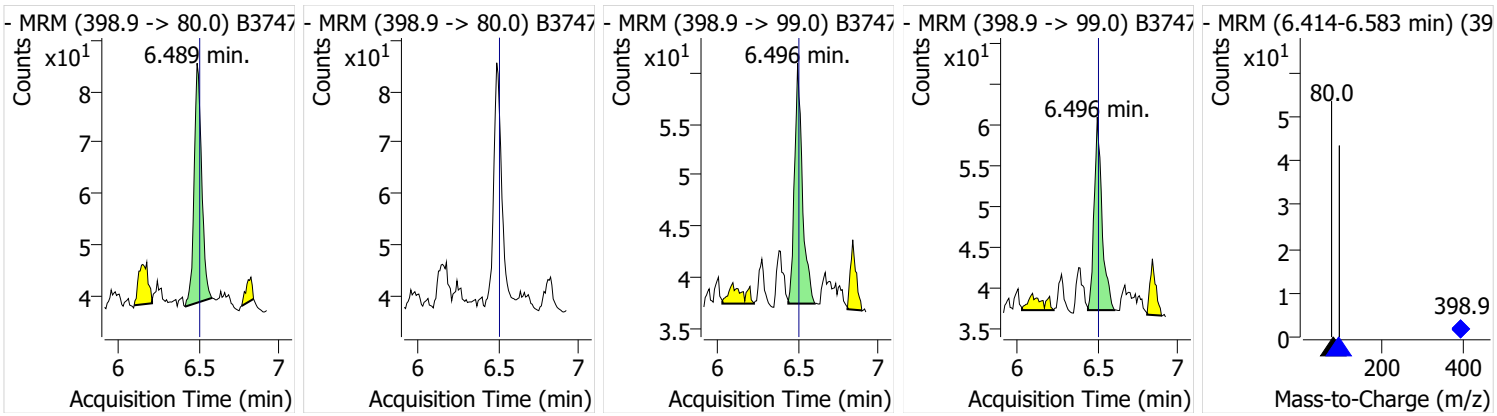

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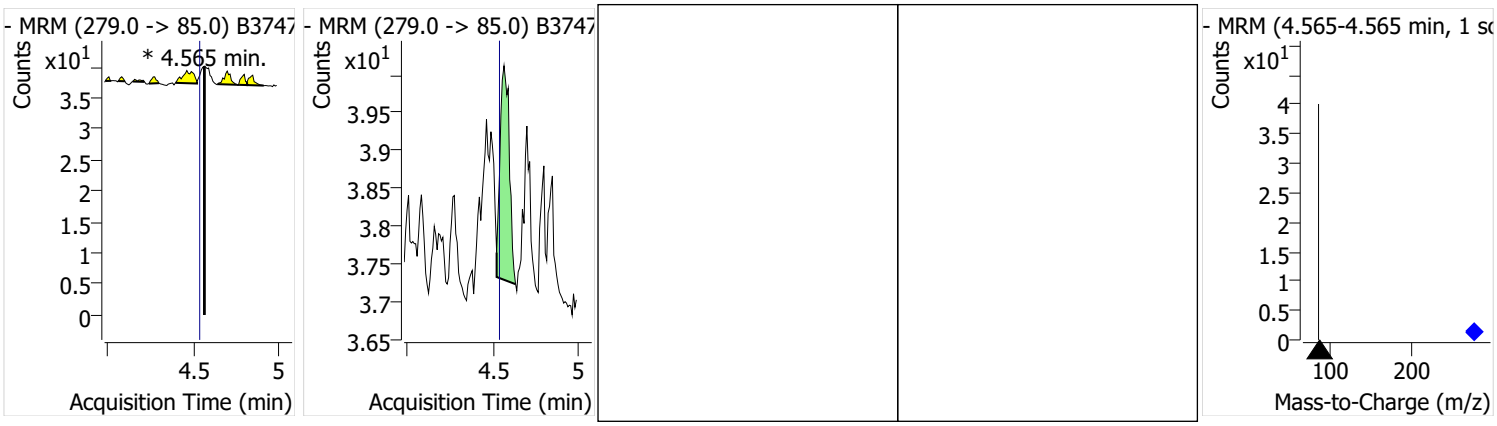

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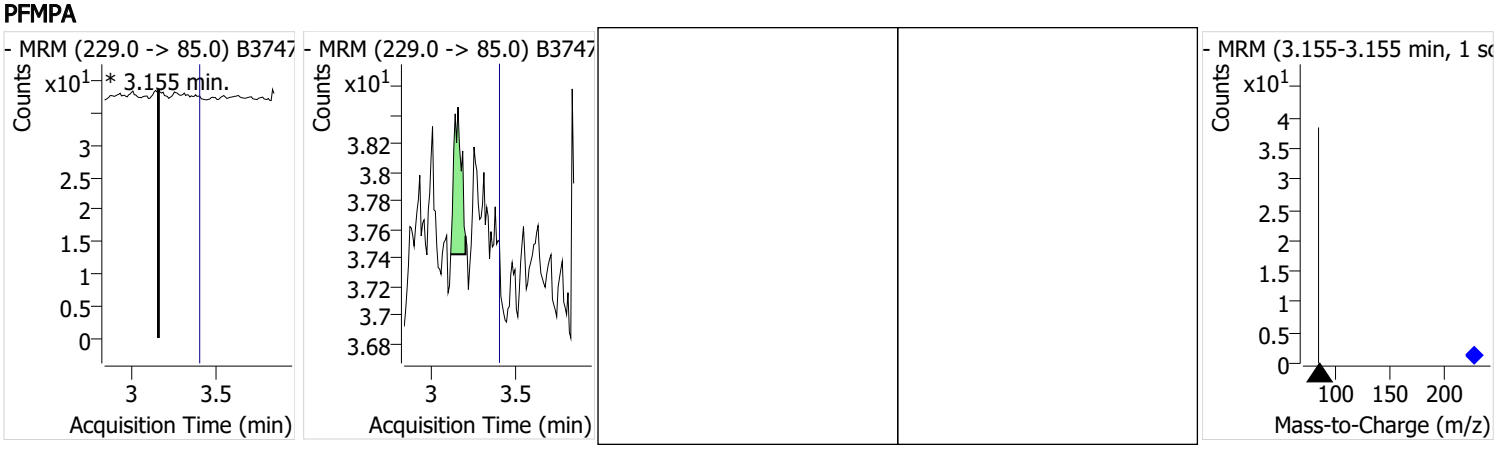

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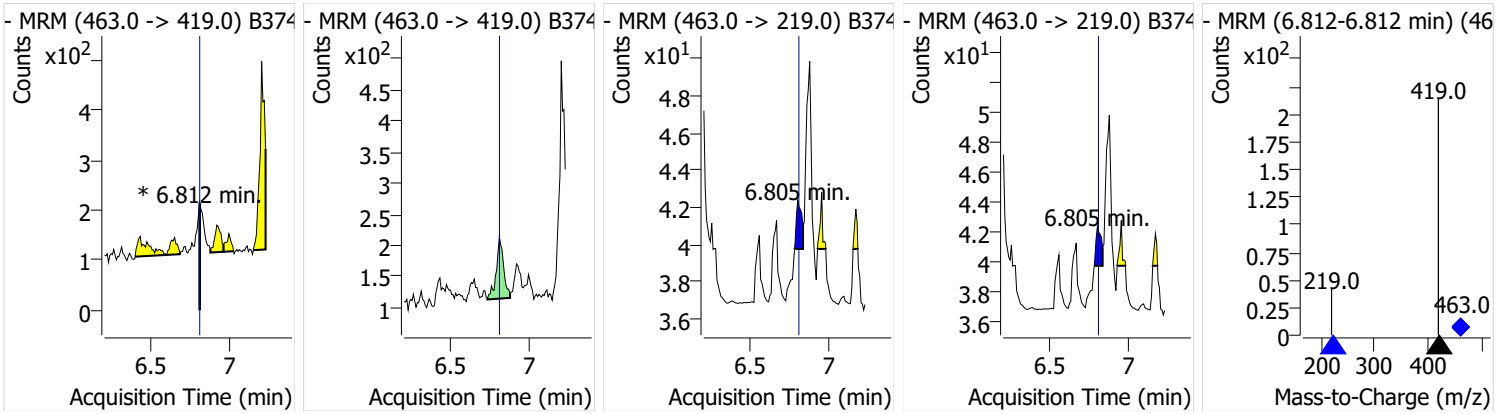

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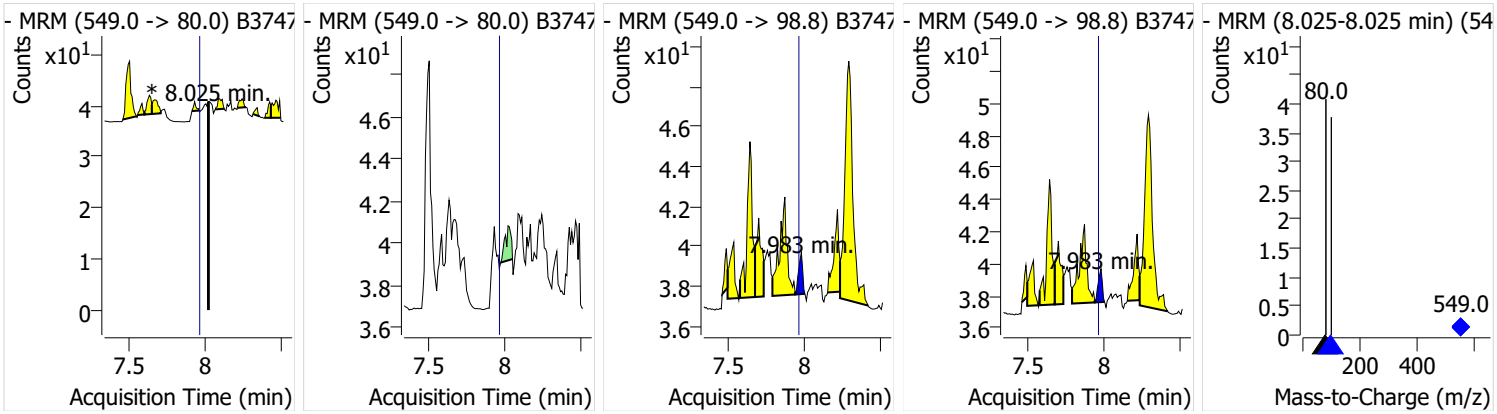

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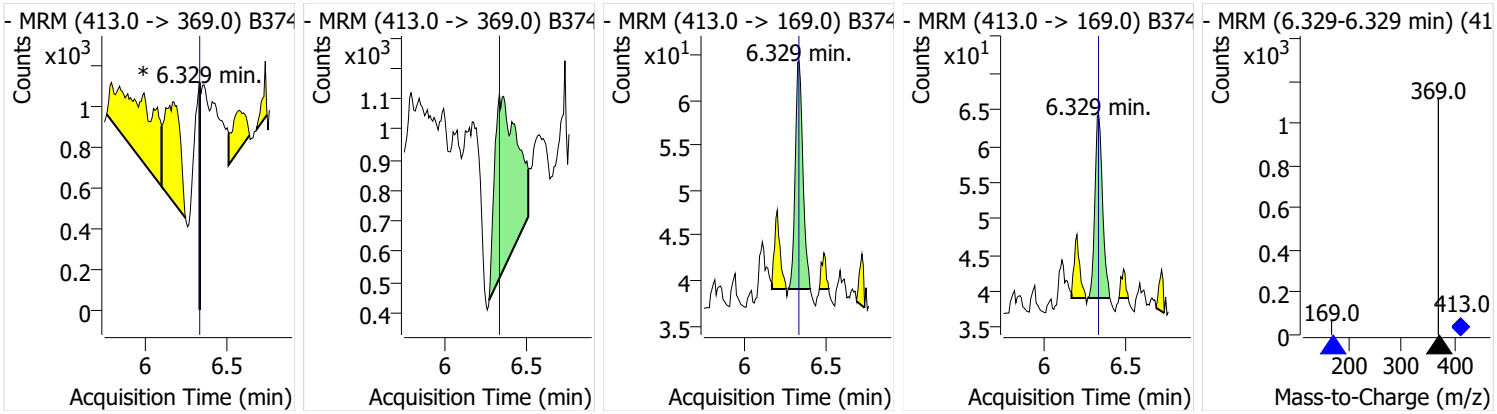

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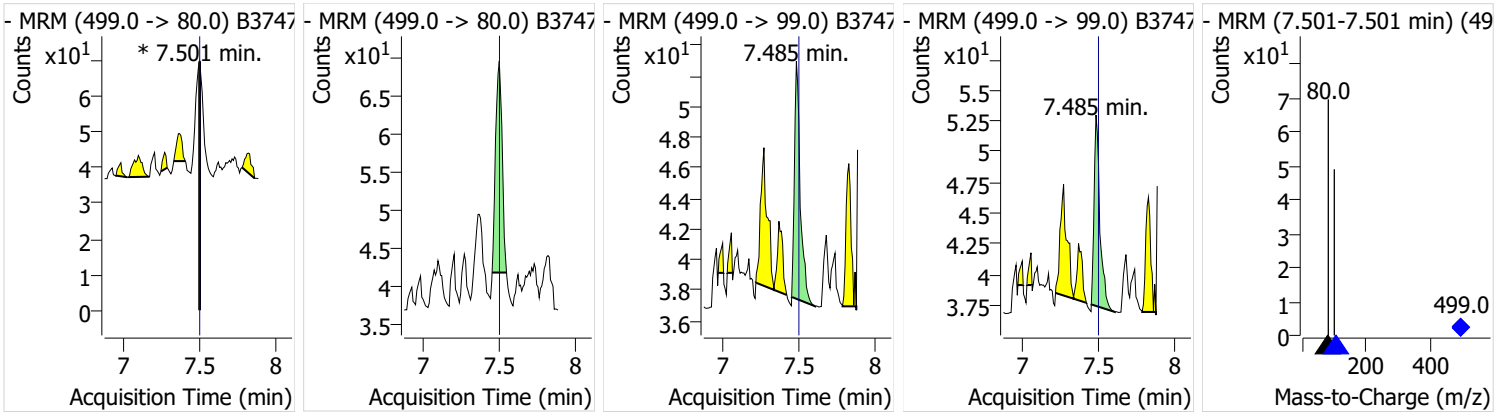

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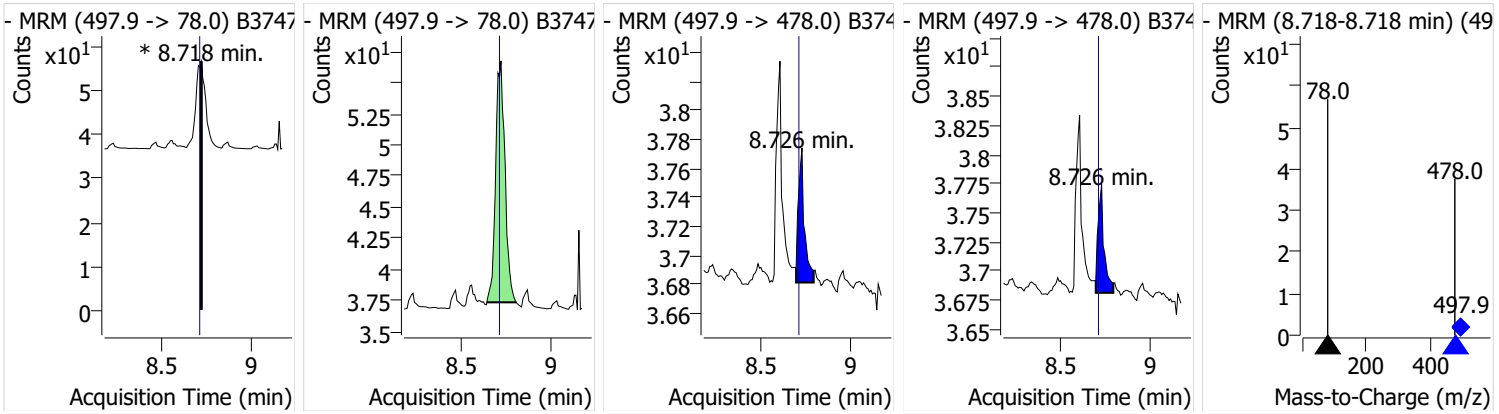

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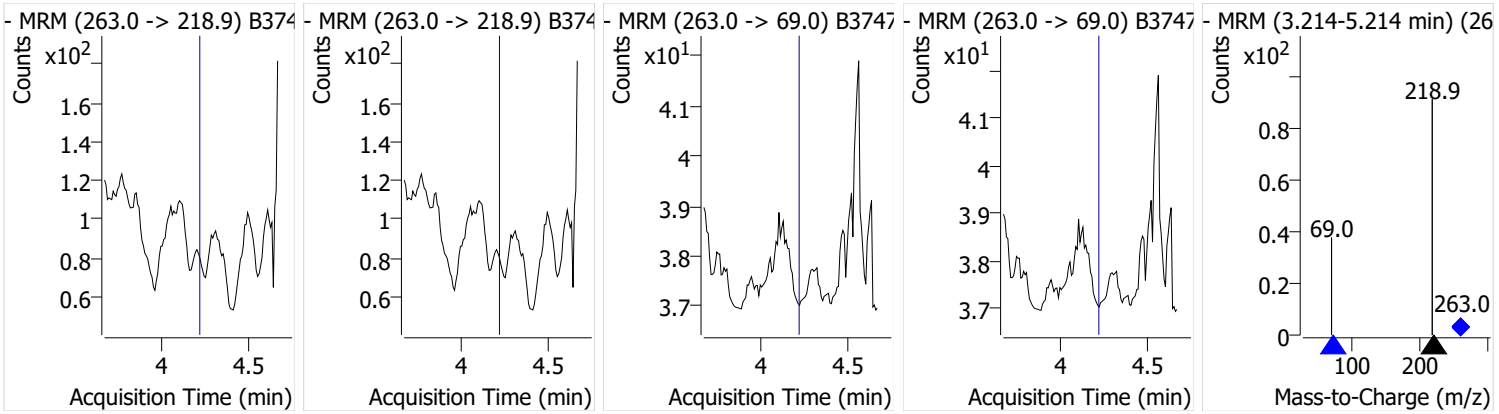

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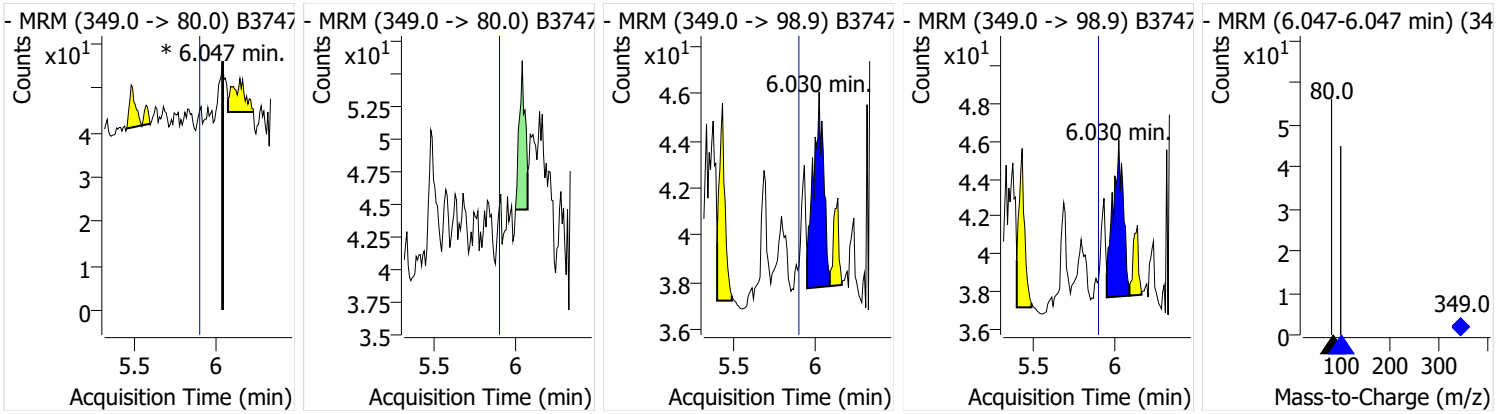

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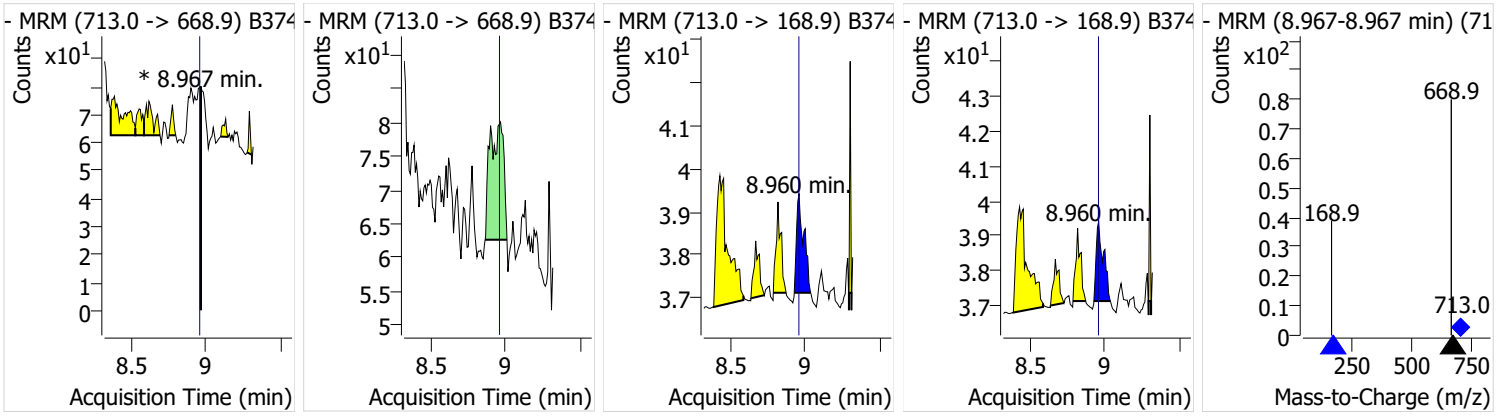

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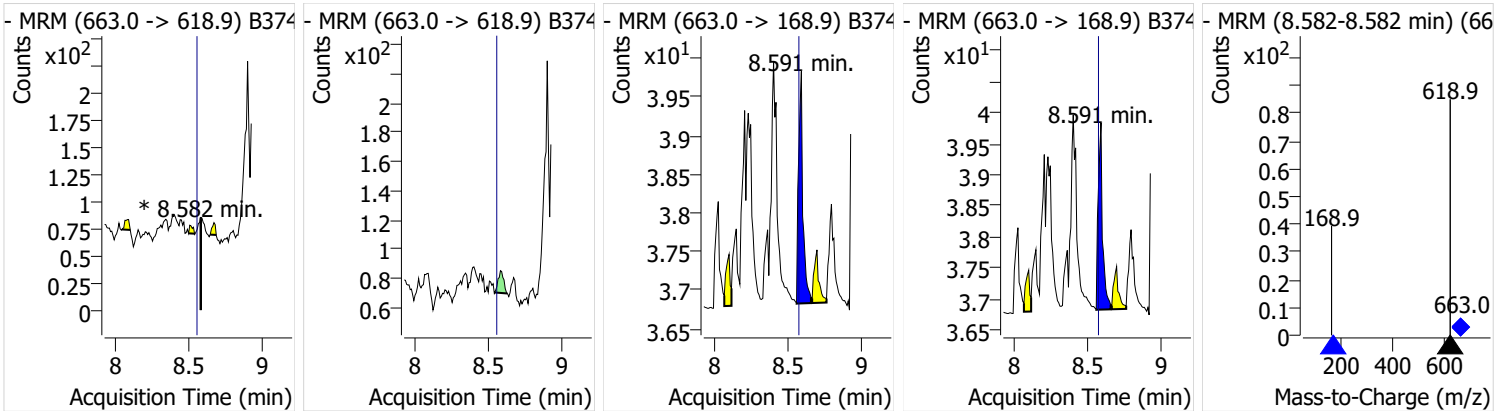

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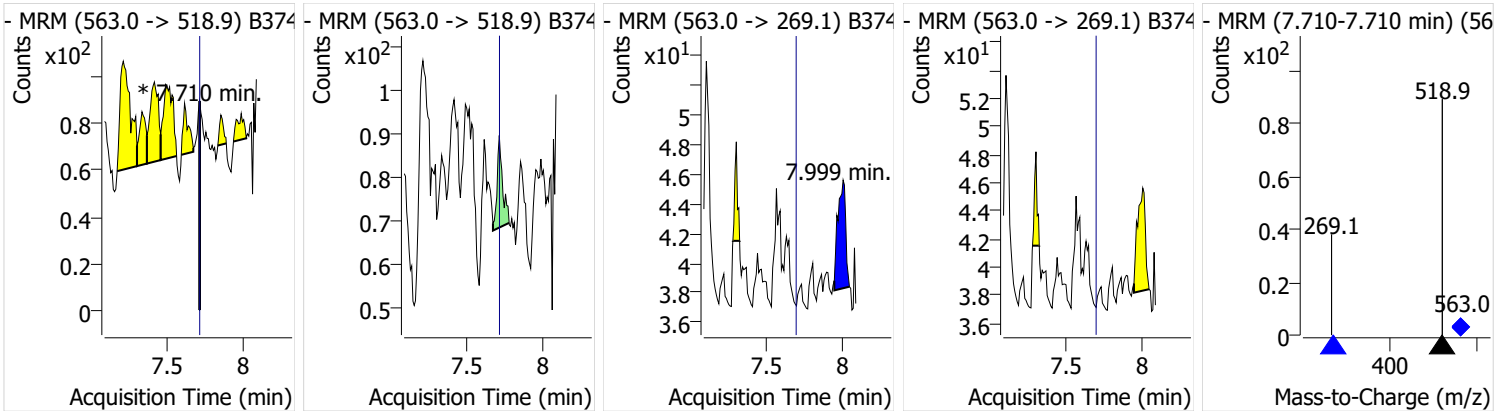

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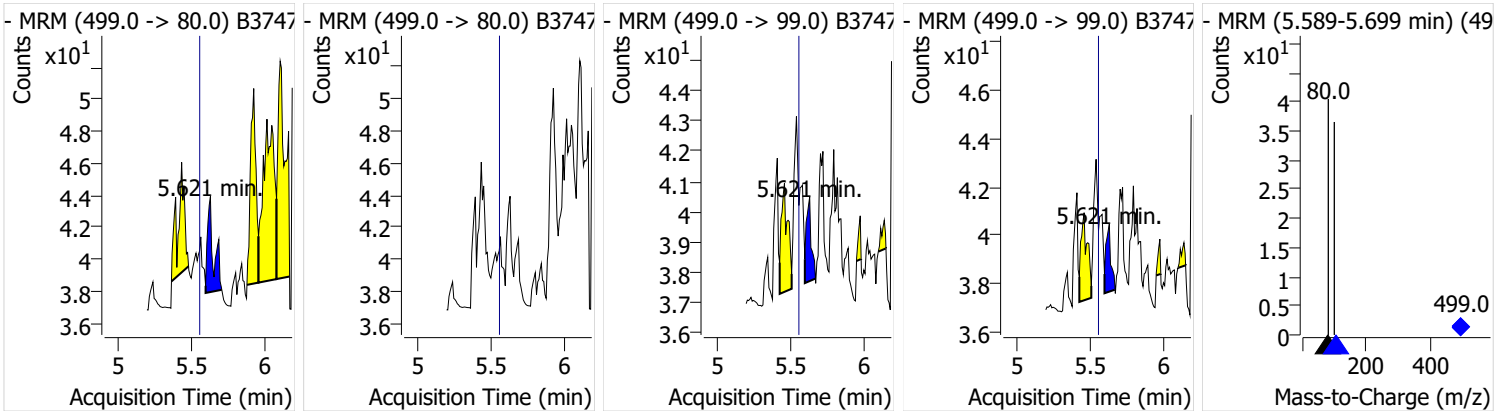

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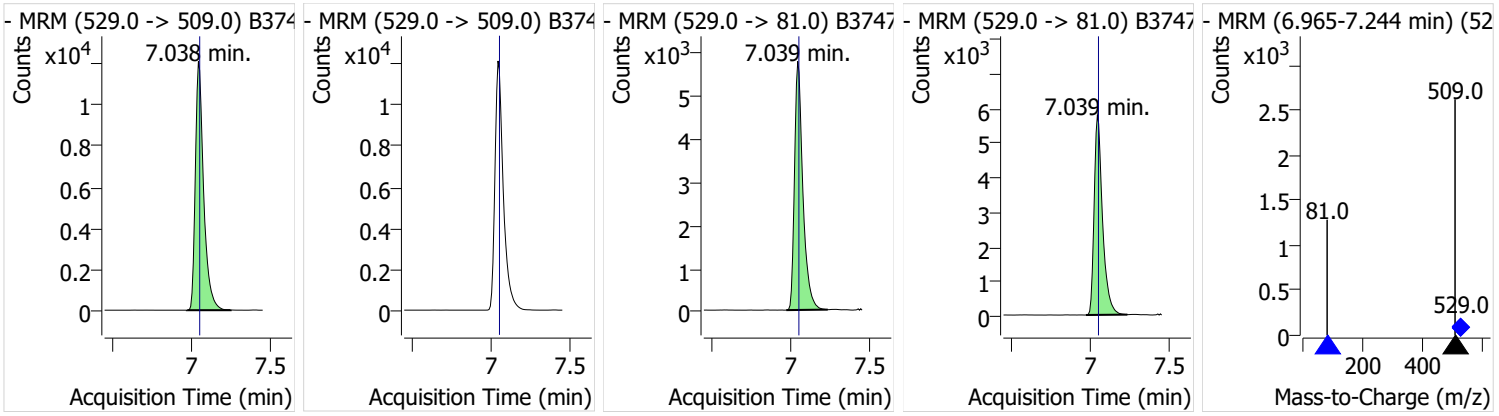

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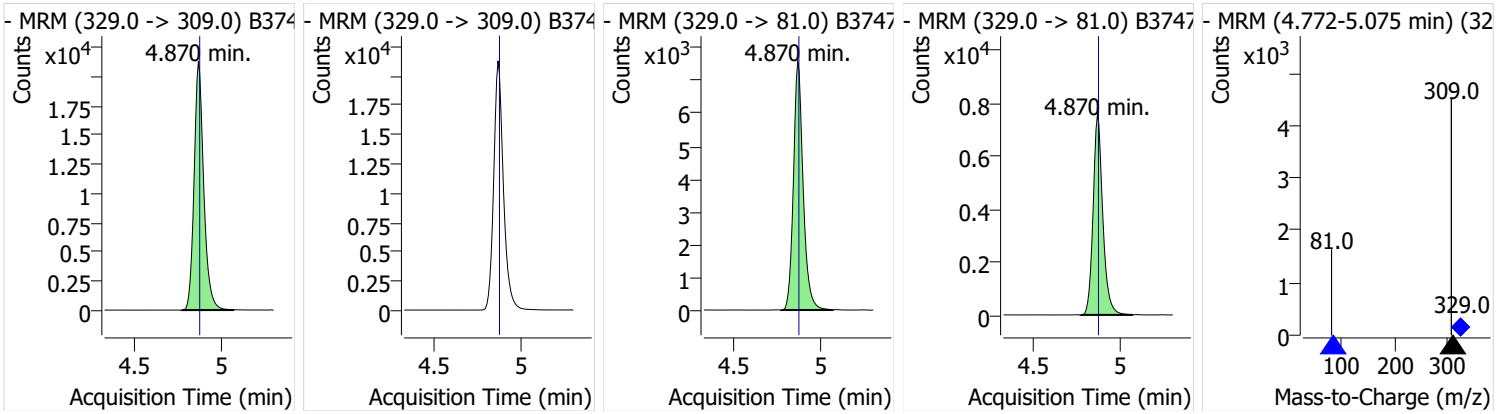

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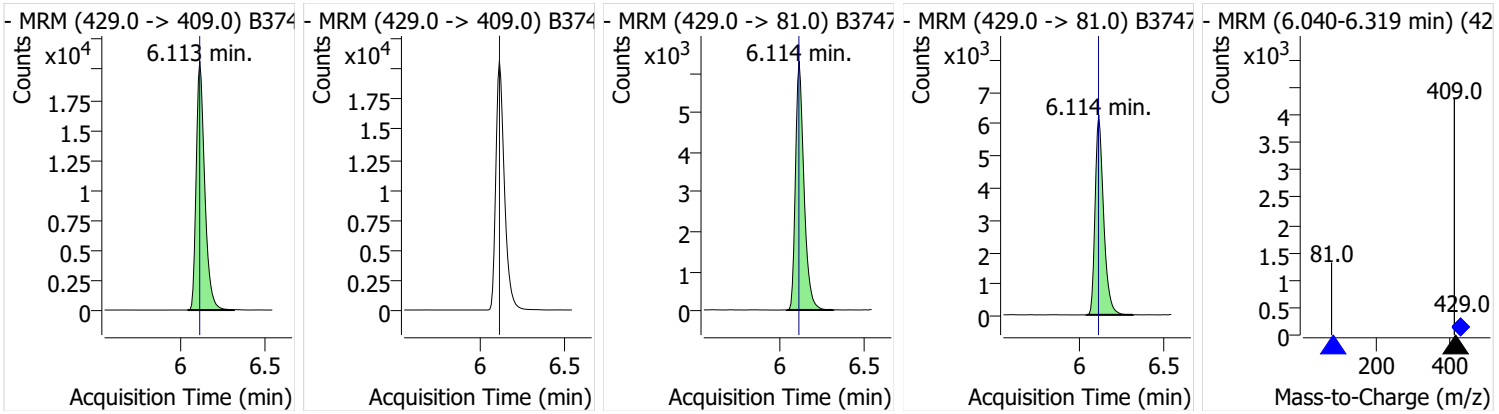

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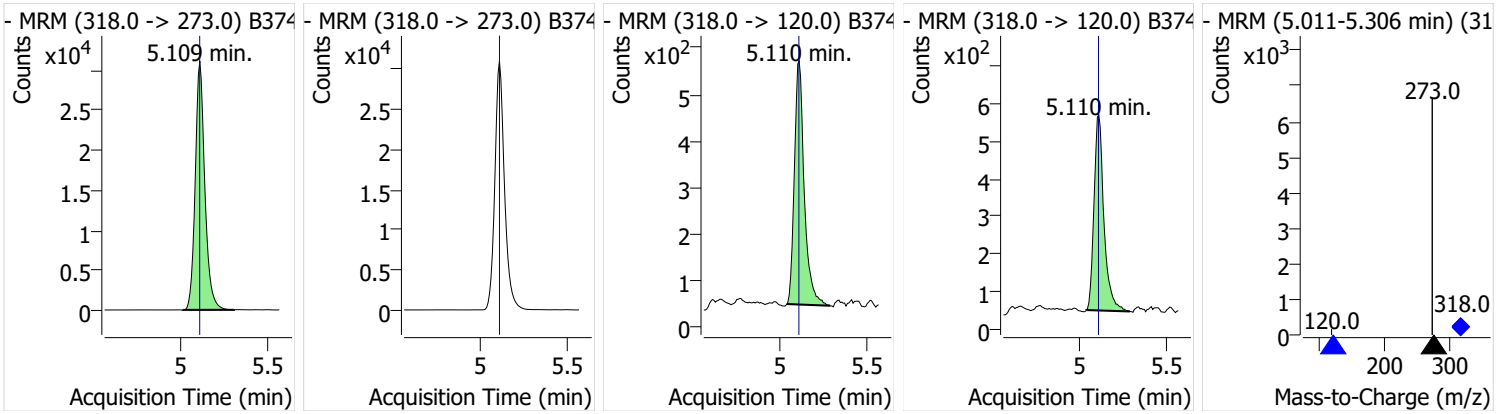

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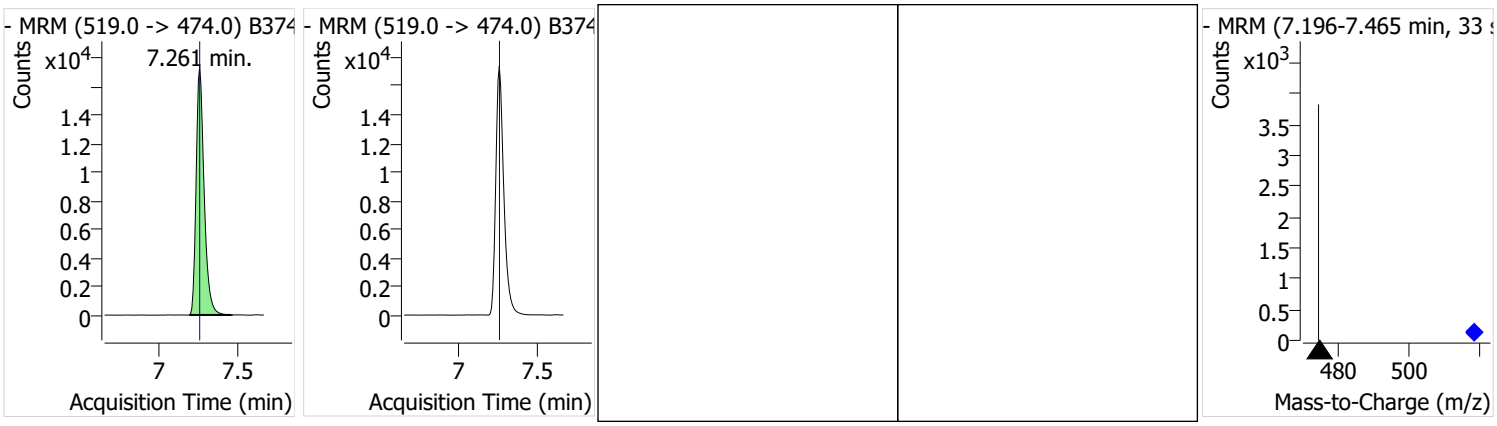

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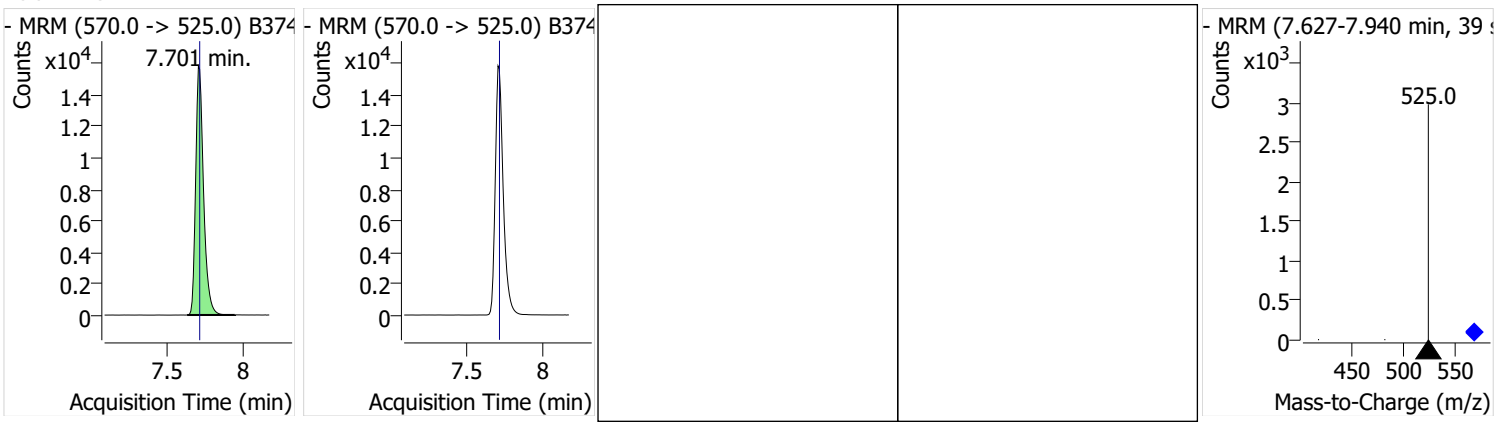

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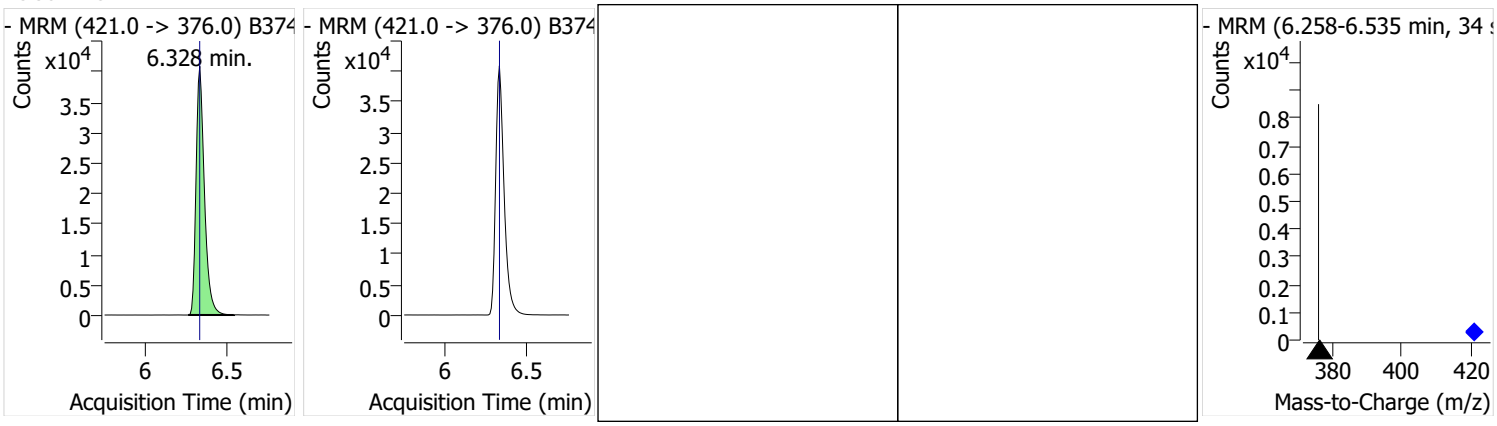

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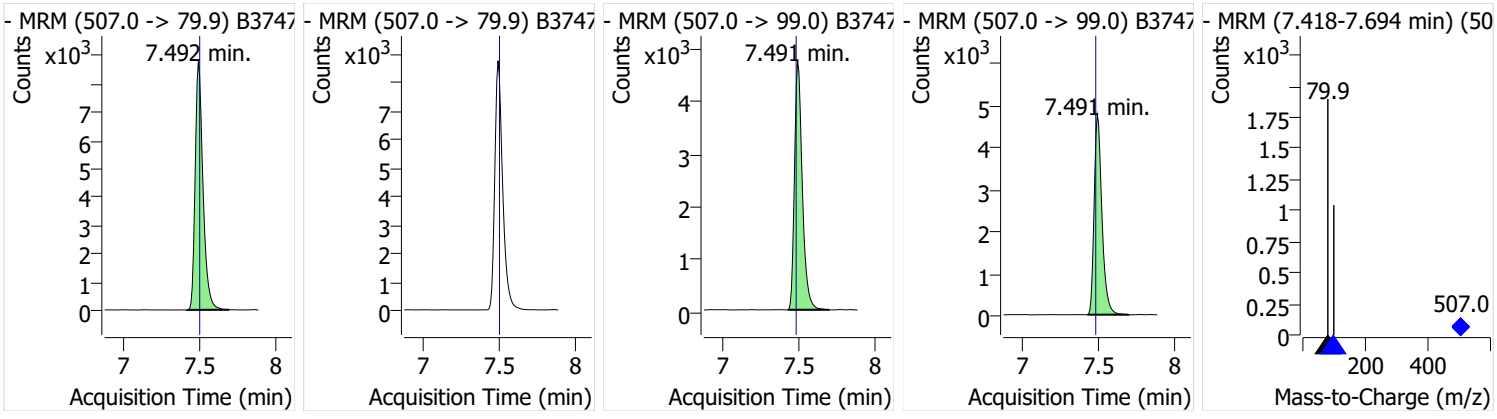

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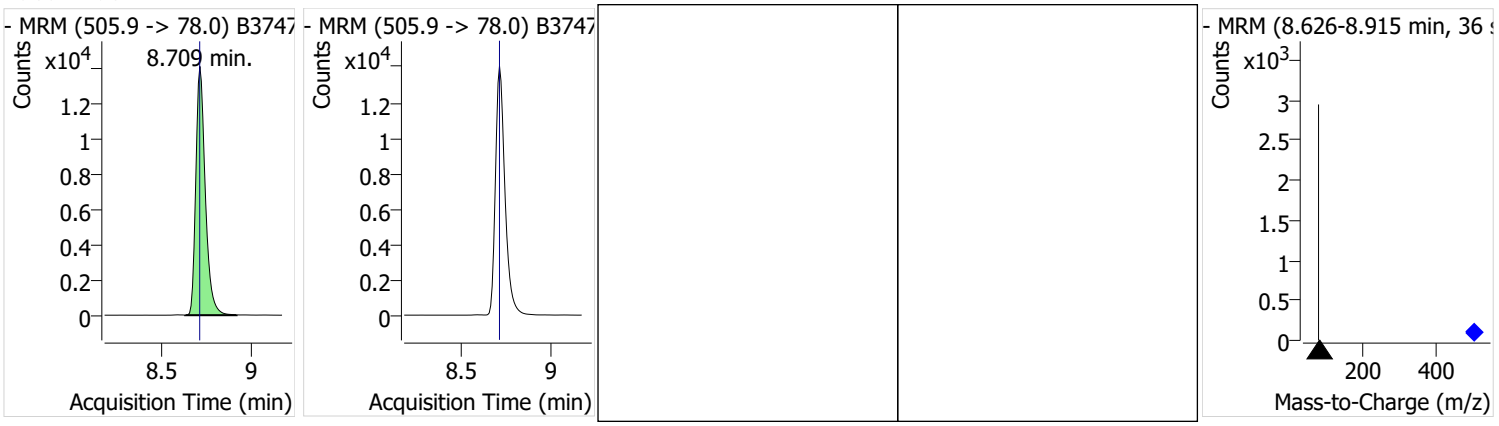

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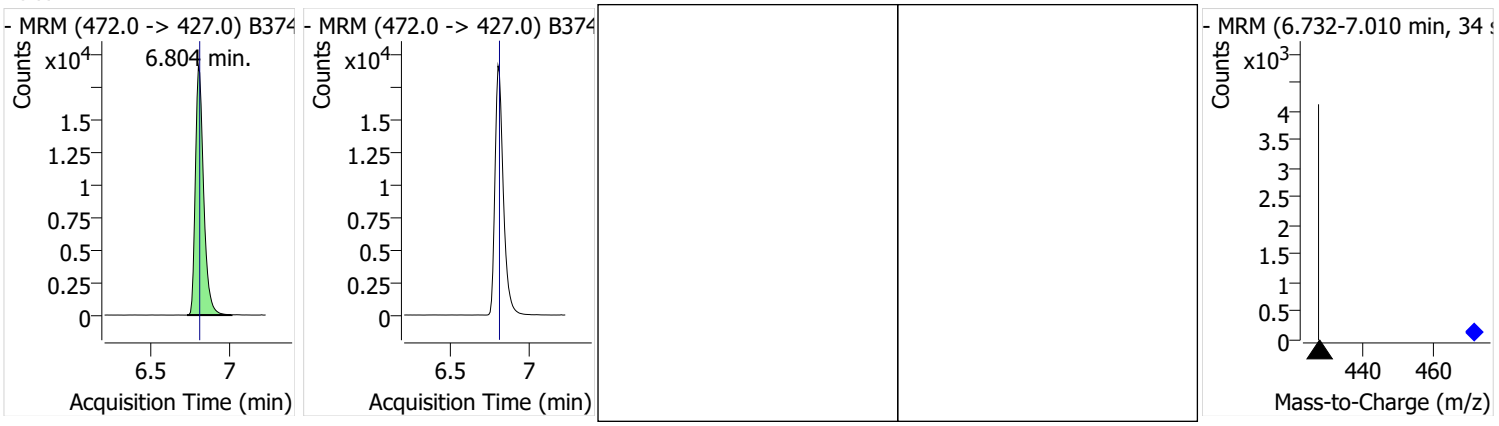

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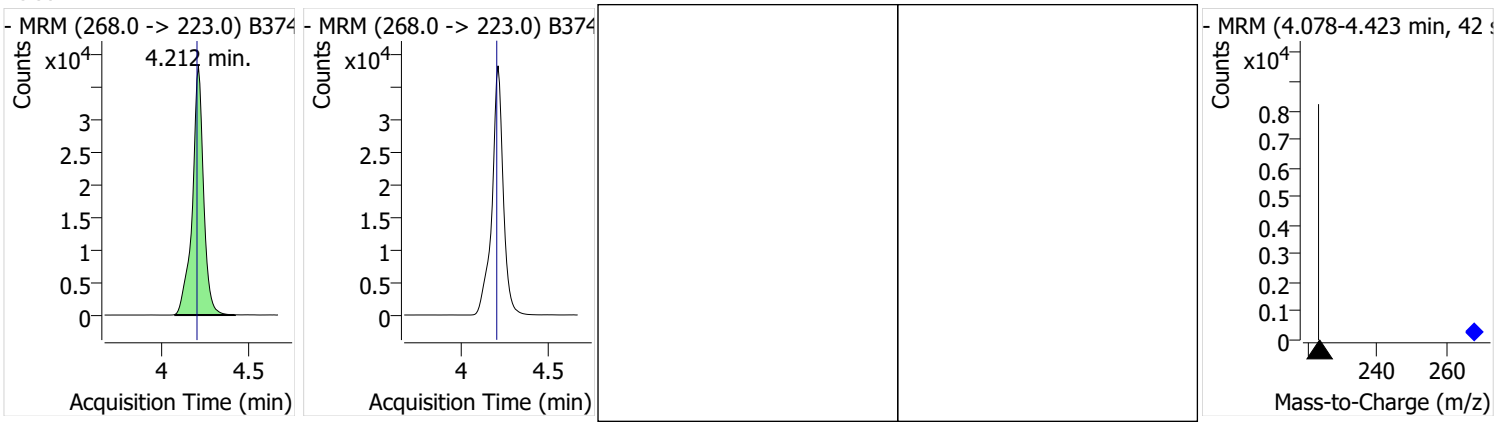

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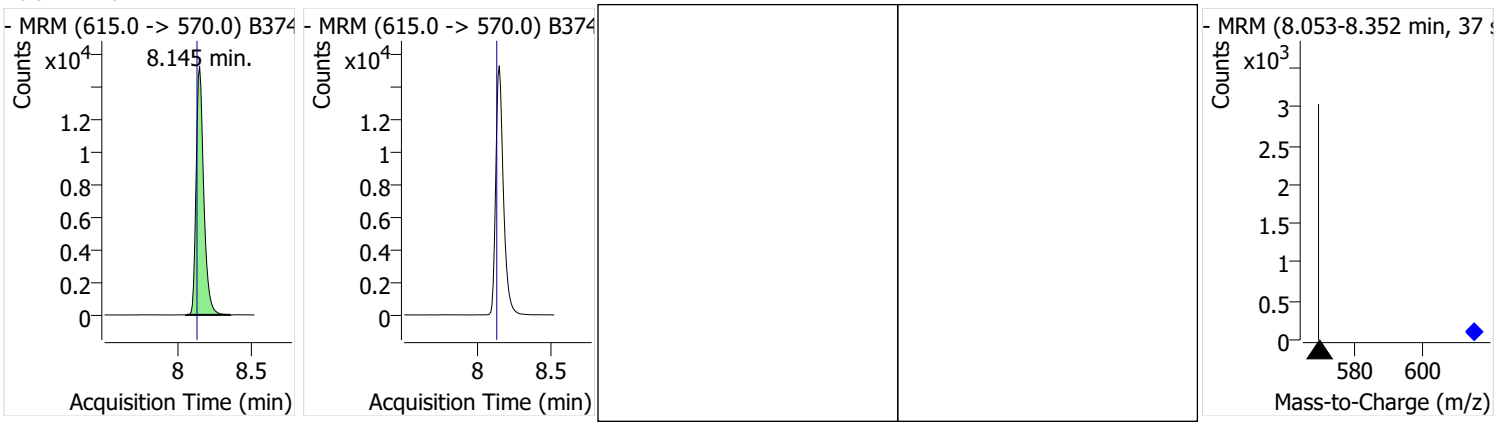

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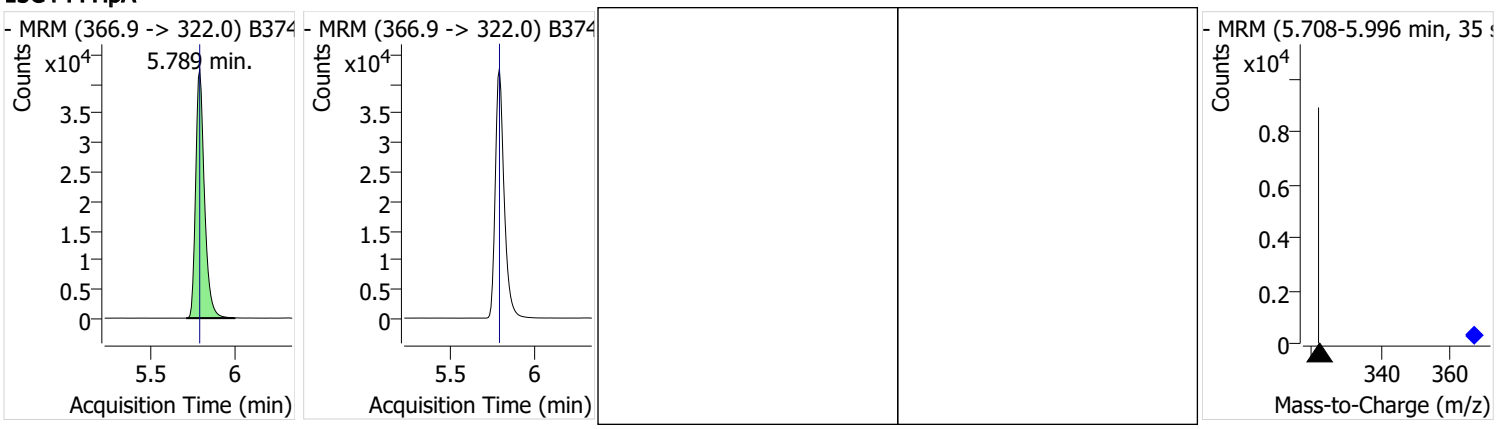

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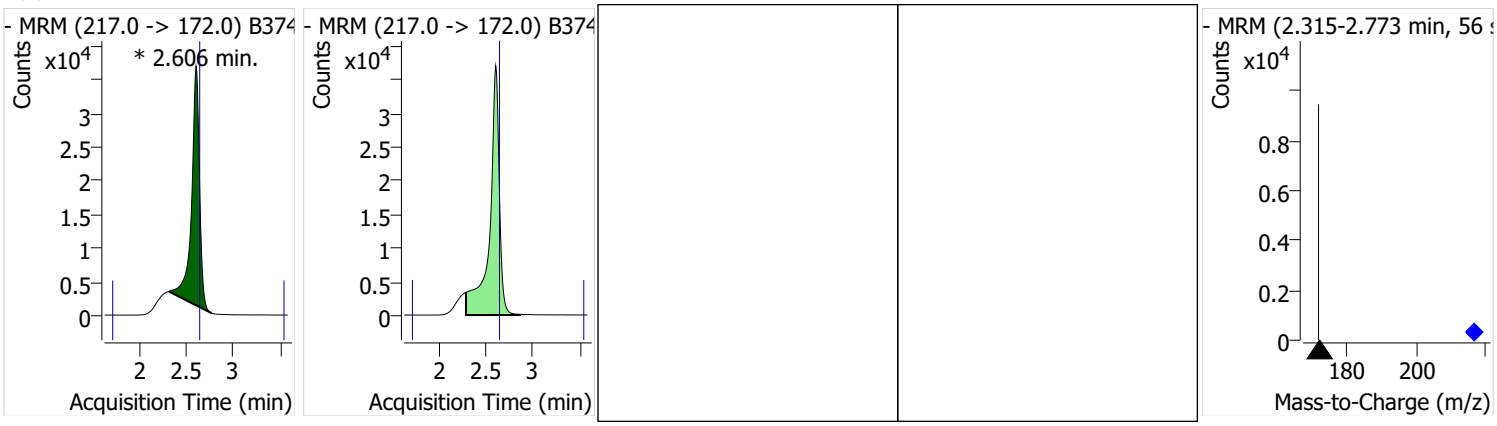

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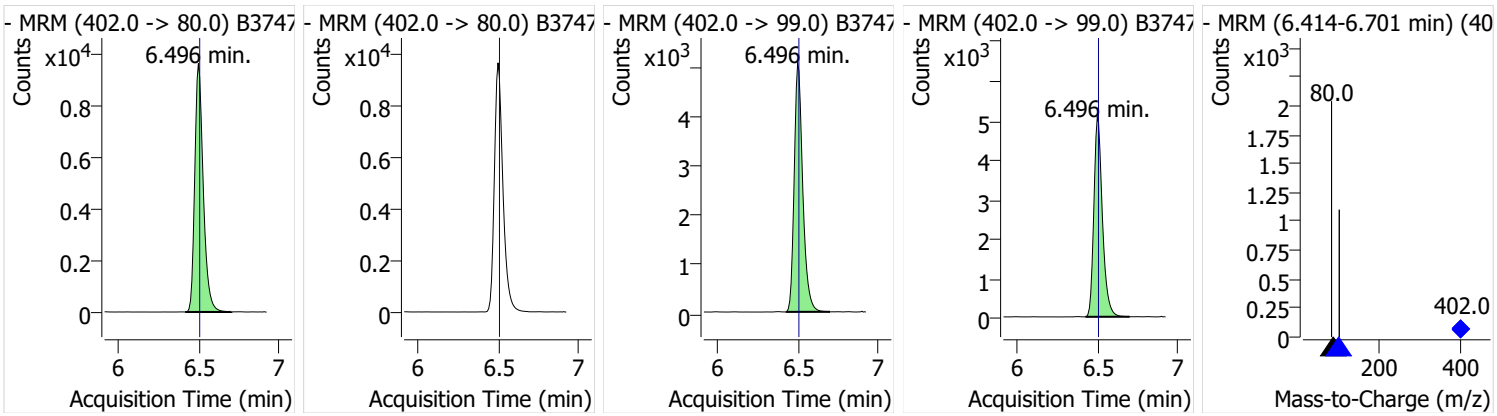

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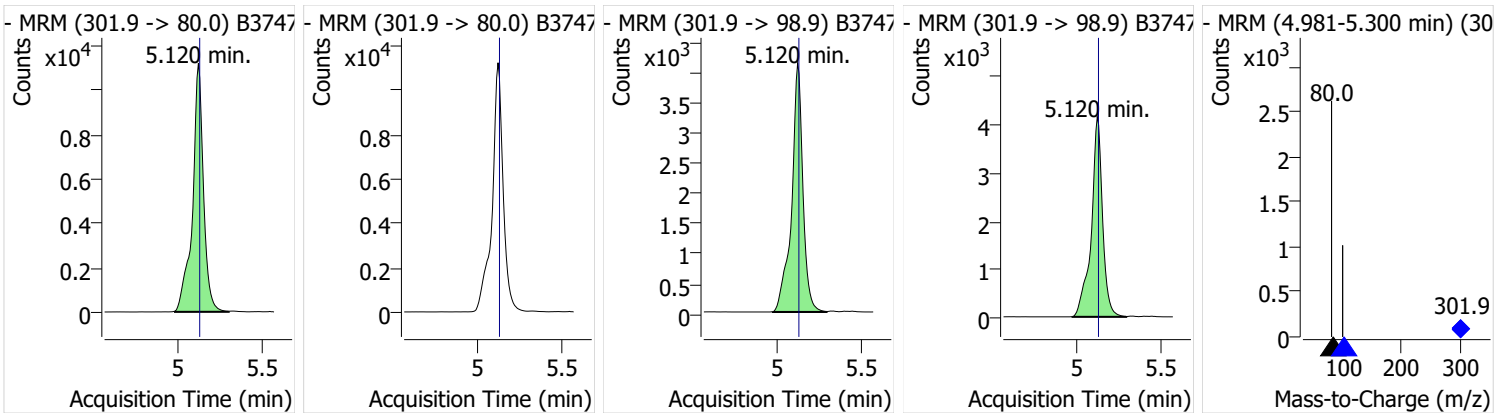

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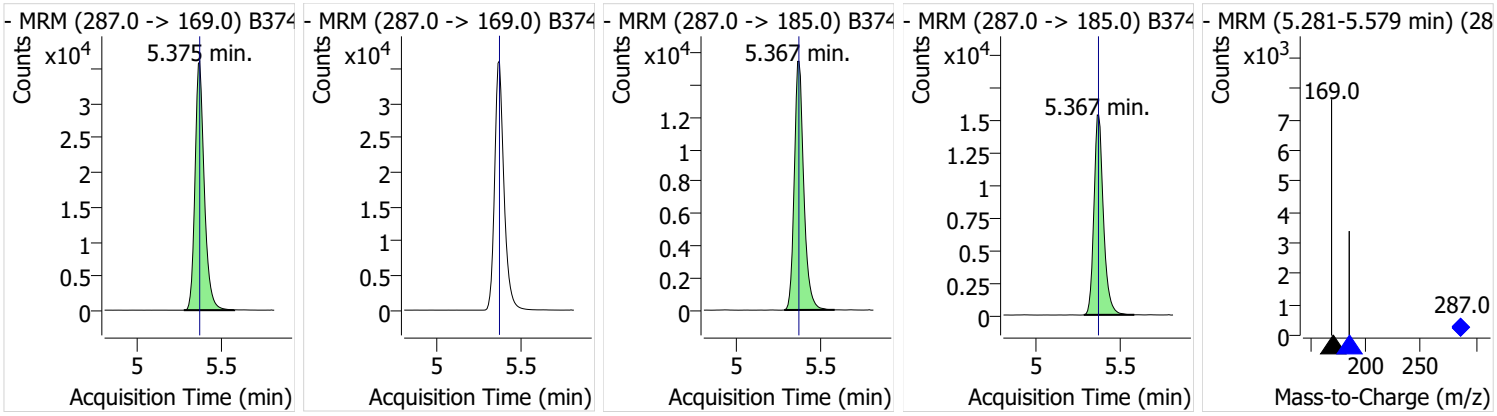

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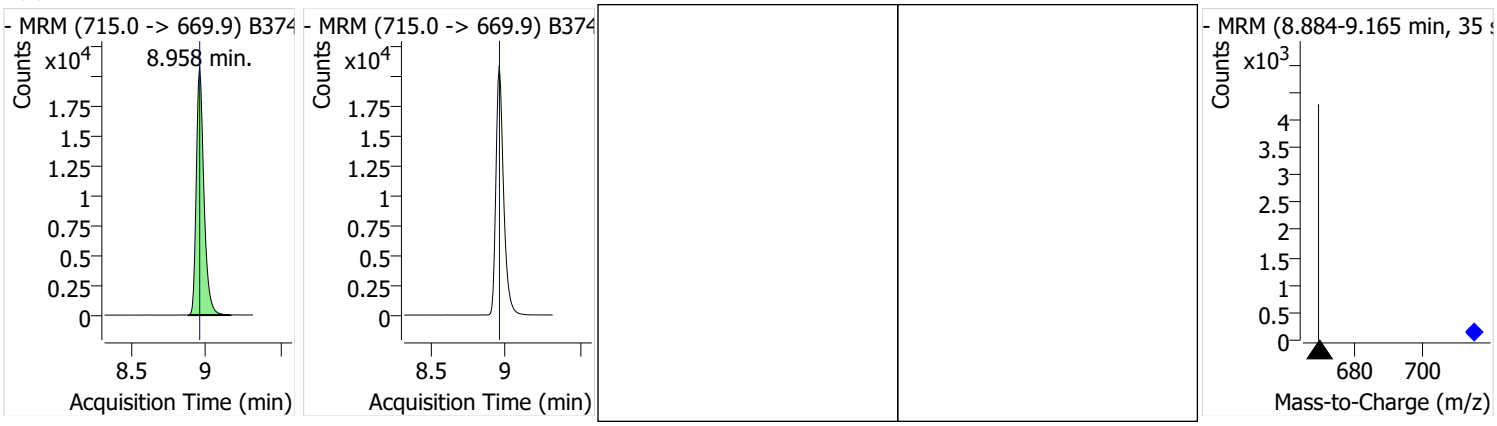

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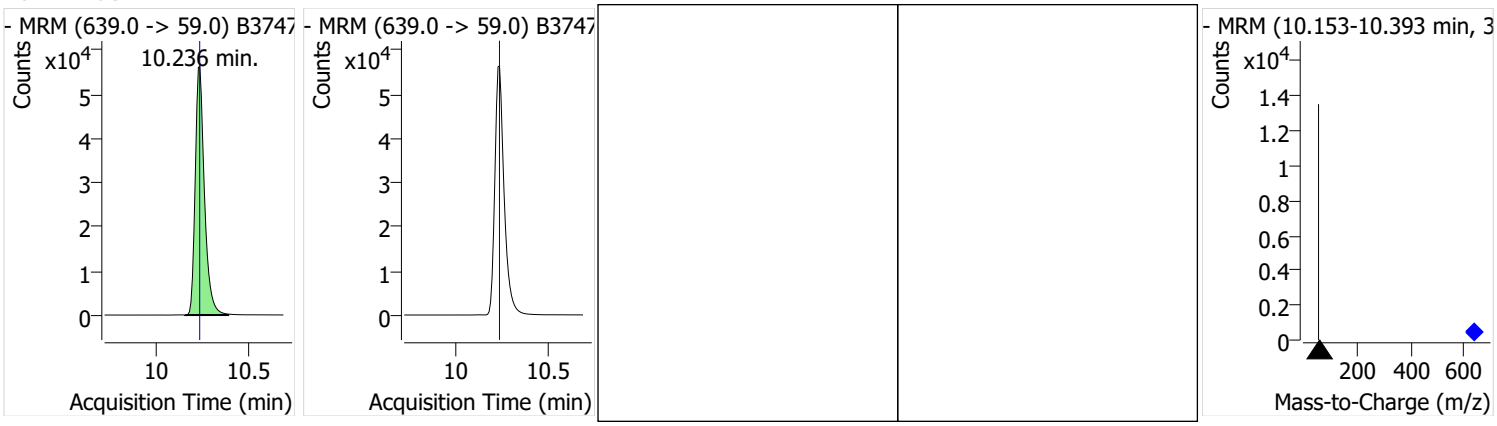
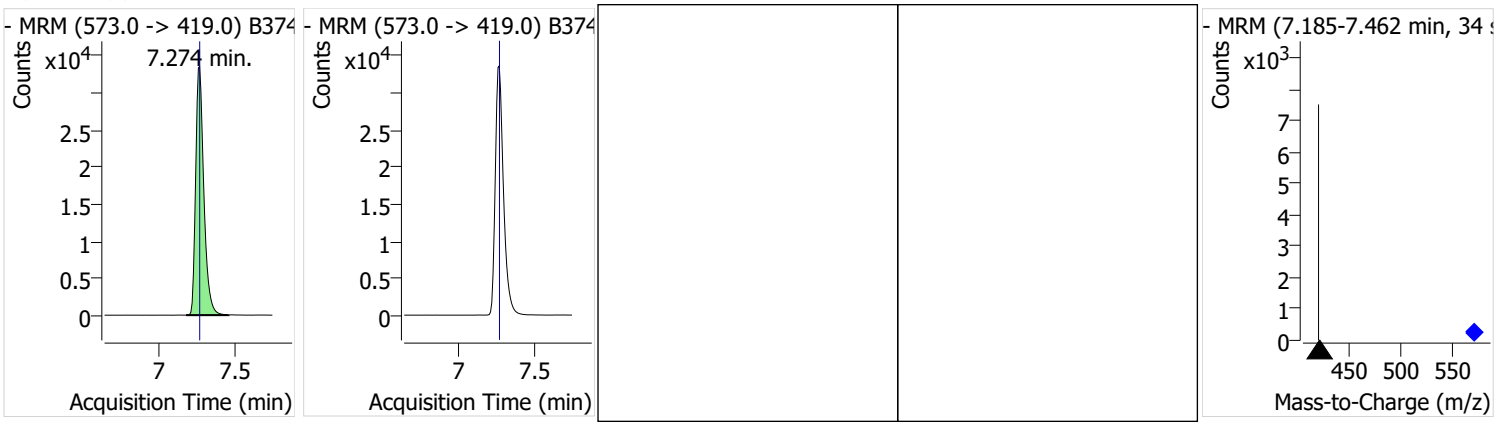


D3-NMeFOSA

D3-NMeFOSAA



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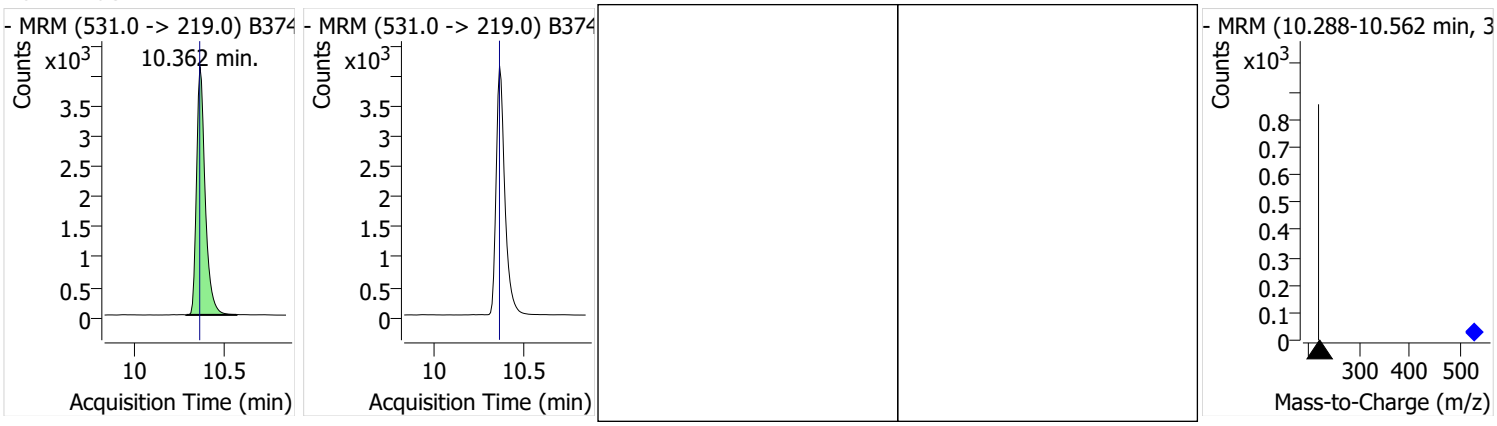
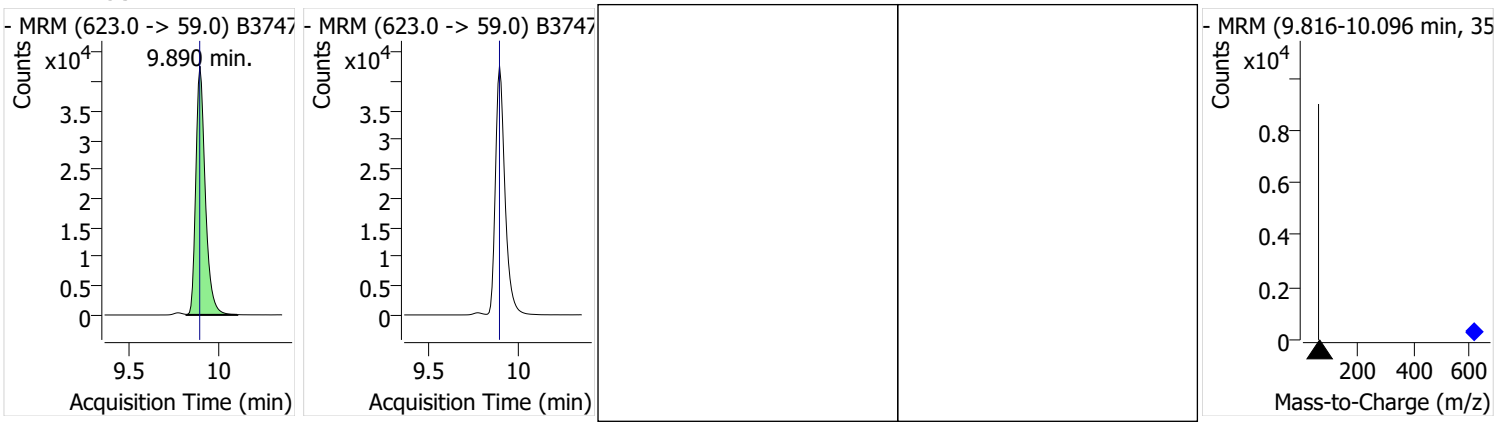


D5-NEtFOSAA

D7-NMeFOSE



1 - FORM I
ANALYSIS DATA SHEET

LCS

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374779-BS1	File ID:	B374779-BS1.d
Sampled:		Prepared:	05/21/24 00:00	Analyzed:	05/28/24 17:41
Solids:		Preparation:	Draft Method 1633	Dilution:	
Initial/Final:	5.012 g / 5 mL				
Batch:	B374779	Sequence:	S105135	Calibration:	2400593
Instrument:	QQQ5				
Column:	1				

CAS NO.	COMPOUND	CONC. (µg/kg wet)	MDL	RL	Q
375-22-4	Perfluorobutanoic acid (PFBA)	8.14	0.32	0.80	
2706-90-3	Perfluoropentanoic acid (PFPeA)	4.09	0.045	0.40	
307-24-4	Perfluorohexanoic acid (PFHxA)	2.04	0.033	0.20	
375-85-9	Perfluoroheptanoic acid (PFHpA)	2.04	0.014	0.20	
335-67-1	Perfluorooctanoic acid (PFOA)	2.00	0.031	0.20	
375-95-1	Perfluorononanoic acid (PFNA)	2.05	0.014	0.20	
335-76-2	Perfluorodecanoic acid (PFDA)	2.01	0.018	0.20	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	2.04	0.023	0.20	
307-55-1	Perfluorododecanoic acid (PFDoA)	2.07	0.022	0.20	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1.99	0.022	0.20	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	2.08	0.020	0.20	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1.82	0.021	0.20	
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)	1.96	0.026	0.20	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.80	0.078	0.20	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)	1.95	0.021	0.20	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1.78	0.032	0.20	
68259-12-1	Perfluorononanesulfonic acid (PFNS)	2.00	0.022	0.20	
335-77-3	Perfluorodecanesulfonic acid (PFDS)	1.94	0.032	0.20	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1.93	0.030	0.20	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (	7.77	0.070	0.80	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid ((	8.52	0.50	0.80	B
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (	8.06	0.093	0.80	
754-91-6	Perfluorooctanesulfonamide (PFOSA)	2.03	0.031	0.20	
31506-32-8	N-methyl perfluoroocatnesulfonamide (NMeF	2.14	0.025	0.20	
4151-50-2	N-ethyl perfluorooctanesulfonamide (NEtFOS	2.11	0.023	0.20	
2355-31-9	N-MeFOSAA (NMeFOSAA)	2.14	0.036	0.20	
2991-50-6	N-EtFOSAA (NEtFOSAA)	1.88	0.030	0.20	
24448-09-7	N-methylperfluorooctanesulfonamidoethanol(	21.6	0.22	2.0	
1691-99-2	N-ethylperfluorooctanesulfonamidoethanol (N	22.2	0.21	2.0	

1 - FORM I
ANALYSIS DATA SHEET

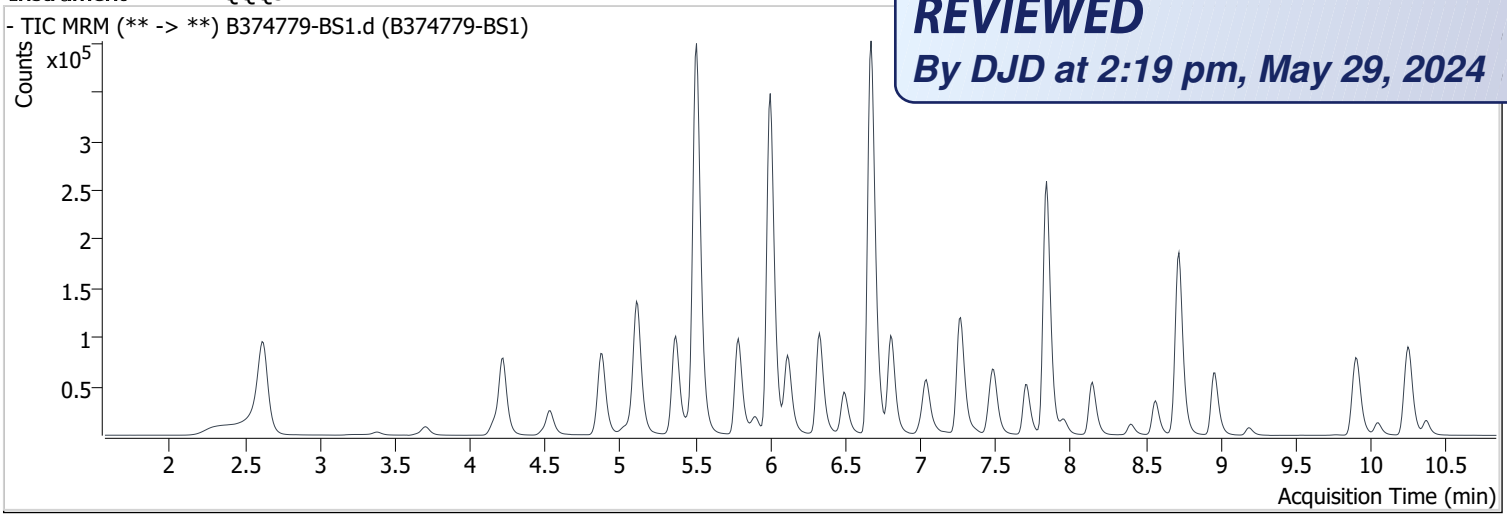
LCS

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374779-BS1	File ID:	B374779-BS1.d
Sampled:		Prepared:	05/21/24 00:00	Analyzed:	05/28/24 17:41
Solids:		Preparation:	Draft Method 1633	Dilution:	
Initial/Final:	5.012 g / 5 mL				
Batch:	B374779	Sequence:	S105135	Calibration:	2400593
Instrument:	QQQ5				
Column:	1				

CAS NO.	COMPOUND	CONC. (µg/kg wet)	MDL	RL	Q
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPC	8.43	0.051	0.80	
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADON/	7.91	0.060	0.80	
756426-58-1	9Cl-PF3ONS (F53B Minor)	8.43	0.058	0.80	
763051-92-9	11Cl-PF3OUdS (F53B Major)	8.34	0.088	0.80	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)(3:3	15.7	0.19	2.0	
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)	89.8	1.3	10	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)(7:3	89.7	1.5	10	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEE	3.95	0.031	0.40	
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)	4.26	0.033	0.40	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)	4.16	0.033	0.40	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	4.06	0.060	0.40	

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\B374779_B375132.batch.bin		
Analysis Time	5/29/2024 12:02 PM	**Last Calib Update**	5/29/2024 8:40 AM
Acq. Time	5/28/2024 5:41 PM	**Data File**	B374779-BS1.d
Sample Type	QC	**Sample Name**	B374779-BS1
Dilution	1	**Acq. Method**	1633_ACQUISITION.m
Sample Comment		**Processing method**	1633_052824.m
Instrument	QQQ5		

REVIEWED
By DJD at 2:19 pm, May 29, 2024



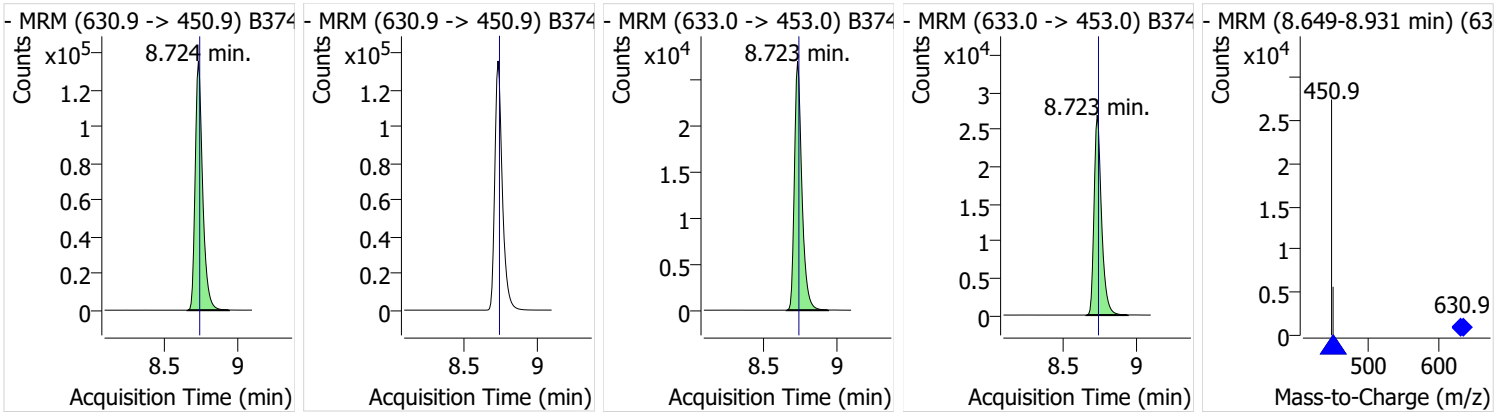
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
11Cl-PF3OUdS	8.724	476077	100058.37		13C3-HFPODA - ISTD	5.375	150610	8.3591	ng/ml			
633.0 -> 453.0			91278.57	19.9								
3:3FTCA	3.707	27146	15198.51		13C5-PFPeA - ISTD	4.220	195817	15.7736	ng/ml			
241.0 -> 117.0			1822.57	52.1								
4:2FTS	4.871	152046	47048.01		13C2-4:2FTS - ISTD	4.870	31010	7.7920	ng/ml			
327.0 -> 80.9			12271.68	35.1								
5:3FTCA	5.509	628471	101819.99		13C5-PFHxA - ISTD	5.109	135913	90.0436	ng/ml			
341.0 -> 217.0			166055.50	90.1								
6:2FTS	6.114	117956	62865.73		13C2-6:2FTS - ISTD	6.114	24286	8.5432	ng/ml			
427.0 -> 80.9			9319.82	38.1								
7:3FTCA	6.674	786271	9497.96		13C5-PFHxA - ISTD	5.109	135913	89.9528	ng/ml			
441.0 -> 317.0			4183.44	90.2								
8:2FTS	7.039	66921	397311.89		13C2-8:2FTS - ISTD	7.039	23081	8.0754	ng/ml			
527.0 -> 81.0			9460.91	60.7								
9Cl-PF3ONS	7.843	722110	48333.01		13C3-HFPODA - ISTD	5.375	150610	8.4467	ng/ml			
533.0 -> 353.0			4221.61	27.6								
ADONA	6.004	897299	81699.34		13C3-HFPODA - ISTD	5.375	150610	7.9314	ng/ml			
377.0 -> 85.1			117130.62	39.2								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA	5.376	108681	15321.51		13C3-HFPODA - ISTD	5.375	150610	8.4520	ng/ml			
285.0 -> 184.9			5219.64	48.4								
NEtFOSA	10.373	16131	13090.71		D5-NEtFOSA - ISTD	10.362	14374	2.1200	ng/ml			
526.0 -> 219.0			13497.65	94.5								
NEtFOSAA	7.470	29025	2085.32		D5-NEtFOSAA - ISTD	7.461	72864	1.8840	ng/ml	✔	3	AMS 05/29/24
584.0 -> 526.0			933.13	67.0								
NEtFOSE	10.253	185248	76401.93		D9-NEtFOSE - ISTD	10.227	181078	22.2769	ng/ml			
NFDHA	5.023	15492	6376.43		13C5-PFHxA - ISTD	5.109	135913	4.0689	ng/ml			
295.0 -> 85.0			2818.15	31.7								
NMeFOSA	10.053	14914	17329.70		D3-NMeFOSA - ISTD	10.051	14823	2.1438	ng/ml			
512.0 -> 219.0			25472.11	92.2								
NMeFOSAA	7.275	21735	4152.57		D3-NMeFOSAA - ISTD	7.274	138751	2.1478	ng/ml	✔	3	AMS 05/29/24
570.0 -> 418.9			47899.89	58.2								
NMeFOSE	9.907	160320	97523.09		D7-NMeFOSE - ISTD	9.890	165332	21.6467	ng/ml			
PFBA	2.620	169086	7282.60		13C4-PFBA - ISTD	2.614	228721	8.1638	ng/ml	✔	3	AMS 05/29/24
PFBS	5.121	48453	6096.49		13C3-PFBS - ISTD	5.120	56156	1.8266	ng/ml			
298.9 -> 98.8			4175.35	42.7								
PFDA	7.262	108780	3427.72		13C6-PFDA - ISTD	7.261	68996	2.0127	ng/ml			
513.0 -> 219.0			12195.87	21.6								
PFDoA	8.145	108130	4800.77		13C2-PFDoA - ISTD	8.145	65050	2.0701	ng/ml			
613.0 -> 319.0			4526.30	16.6								
PFDoS	9.189	16622	8335.16		13C8-PFOS - ISTD	7.492	35232	1.9333	ng/ml			
698.9 -> 99.0			3584.56	64.9								
PFDS	8.403	23980	5890.41		13C8-PFOS - ISTD	7.492	35232	1.9457	ng/ml			
599.0 -> 98.8			4119.24	58.8								
PFEESA	5.511	315320	44186.08		13C5-PFHxA - ISTD	5.109	135913	3.9561	ng/ml			
315.0 -> 83.0			2956.63	7.2								
PFHpA	5.789	149600	3004.07		13C4-PFHpA - ISTD	5.789	176367	2.0486	ng/ml			
362.9 -> 169.0			7560.50	15.3								
PFHpS	7.011	33123	5939.30		13C8-PFOS - ISTD	7.492	35232	1.9564	ng/ml			
449.0 -> 98.8			4640.94	52.2								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFHxA	5.111	108659	4590.45		13C5-PFHxA - ISTD	5.109	135913	2.0402	ng/ml			
313.0 -> 118.9			475.28	2.9								
PFHxS	6.497	34254	1725.44		13C3-PFHxS - ISTD	6.496	39746	1.8069	ng/ml	✔	3	AMS 05/29/24
398.9 -> 99.0			3456.96	49.4								
PFMBA	4.530	107464	86131.11		13C5-PFPeA - ISTD	4.220	195817	4.1682	ng/ml			
PFMPA	3.382	11661	7612.43		13C5-PFPeA - ISTD	4.220	195817	4.2726	ng/ml	✔	3	AMS 05/29/24
PFNA	6.804	121002	2265.10		13C9-PFNA - ISTD	6.804	74876	2.0513	ng/ml			
463.0 -> 219.0			7754.31	23.6								
PFNS	7.959	30431	7404.51		13C8-PFOS - ISTD	7.492	35232	2.0054	ng/ml			
549.0 -> 98.8			4240.00	53.8								
PFOA	6.329	145012	784.43		13C8-PFOA - ISTD	6.328	157917	1.9998	ng/ml			
413.0 -> 169.0			6541.18	23.0								
PFOS	7.493	30535	2233.32		13C8-PFOS - ISTD	7.492	35232	1.7876	ng/ml	✔	3	AMS 05/29/24
499.0 -> 99.0			3915.01	52.0								
PFOSA	8.710	53620	406604.79		13C8-PFOSA - ISTD	8.709	61135	2.0361	ng/ml			
497.9 -> 478.0			12497.91	2.5								
PFPeA	4.222	158067	3442.30		13C5-PFPeA - ISTD	4.220	195817	4.0969	ng/ml			
263.0 -> 69.0			213.25	0.3								
PFPeS	5.906	42223	6087.96		13C3-PFHxS - ISTD	6.496	39746	1.9610	ng/ml			
349.0 -> 98.9			5199.37	48.9								
PFTeDA	8.951	134757	10897.72		13C2-PFTeDA - ISTD	8.958	83443	2.0858	ng/ml			
713.0 -> 168.9			11705.27	7.9								
PFTrDA	8.565	107626	8479.29		13C2-PFDoA - ISTD	8.145	65050	1.9901	ng/ml			
663.0 -> 168.9			7456.46	15.1								
PFUnA	7.702	98553	3078.81		13C7-PFUnA - ISTD	7.701	62083	2.0474	ng/ml			
563.0 -> 269.1			5805.66	23.2								
TDCA	6.039	197	99.86					-	ng/ml			
499.0 -> 99.0			5.82	***6.9**								
13C2-8:2FTS	7.038	50719	230232.57		18O2-PFHxS	6.495	47477	3.9118	ng/ml			
529.0 -> 81.0			5674.58	45.5								
13C2-4:2FTS	4.870	92674	48184.79		18O2-PFHxS	6.495	47477	3.8342	ng/ml			
329.0 -> 81.0			8022.96	33.5								
13C2-6:2FTS	6.113	85603	35147.83		18O2-PFHxS	6.495	47477	3.9847	ng/ml			

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
429.0 -> 81.0			8106.65	28.4								
13C5-PFHxA	5.109	135913	28329.81		13C2-PFHxA	5.110	153160	2.0944	ng/ml			
318.0 -> 120.0			169.47	1.6								
13C6-PFDA	7.261	68996	5468.15		13C2-PFDA	7.262	81627	1.0615	ng/ml			
13C7-PFUnA	7.701	62083	7116.20		13C2-PFDA	7.262	81627	1.0216	ng/ml			
13C8-PFOA	6.328	157917	24531.72		13C4-PFOA	6.329	22508	2.1442	ng/ml			
13C8-PFOS	7.492	35232	6374.43		13C4-PFOS	7.492	45563	2.0848	ng/ml			
507.0 -> 99.0			6051.04	54.4								
13C8-PFOSA	8.709	61135	253813.28		13C4-PFOS	7.492	45563	2.0020	ng/ml			
13C9-PFNA	6.804	74876	8924.95		13C5-PFNA	6.804	118970	1.0229	ng/ml			
13C5-PFPeA	4.220	195817	21019.82		13C2-PFHxA	5.110	153160	4.0693	ng/ml			
13C2-PFDoA	8.145	65050	7646.79		13C2-PFDA	7.262	81627	1.0372	ng/ml			
13C4-PFHpA	5.789	176367	15613.51		13C2-PFHxA	5.110	153160	2.0833	ng/ml			
13C4-PFBA	2.614	231724	58751.43		13C3-PFBA	2.617	130093	8.1537	ng/ml	✔	3	AMS 05/29/24
13C3-PFHxS	6.496	39746	9427.35		18O2-PFHxS	6.495	47477	2.0399	ng/ml			
402.0 -> 99.0			17476.73	53.9								
13C3-PFBS	5.120	56156	8317.98		18O2-PFHxS	6.495	47477	1.9917	ng/ml			
301.9 -> 98.9			6339.95	38.4								
13C3-HFPODA	5.375	150610	50377.83		13C2-PFHxA	5.110	153160	8.0925	ng/ml			
287.0 -> 185.0			6347.14	44.4								
13C2-PFTeDA	8.958	83443	15163.01		13C2-PFDA	7.262	81627	0.9866	ng/ml			
D9-NEtFOSE	10.227	181078	27372.67		13C4-PFOS	7.492	45563	18.3301	ng/ml			
D3-NMeFOSA	10.051	14823	5919.57		13C4-PFOS	7.492	45563	1.4858	ng/ml			
D3-NMeFOSAA	7.274	138751	31776.00		13C4-PFOS	7.492	45563	4.0976	ng/ml			
D5-NEtFOSA	10.362	14374	3331.61		13C4-PFOS	7.492	45563	1.4154	ng/ml			
D5-NEtFOSAA	7.461	72864	9650.35		13C4-PFOS	7.492	45563	4.2982	ng/ml			
D7-NMeFOSE	9.890	165332	33142.03		13C4-PFOS	7.492	45563	17.9091	ng/ml			

11Cl-PF3OUdS



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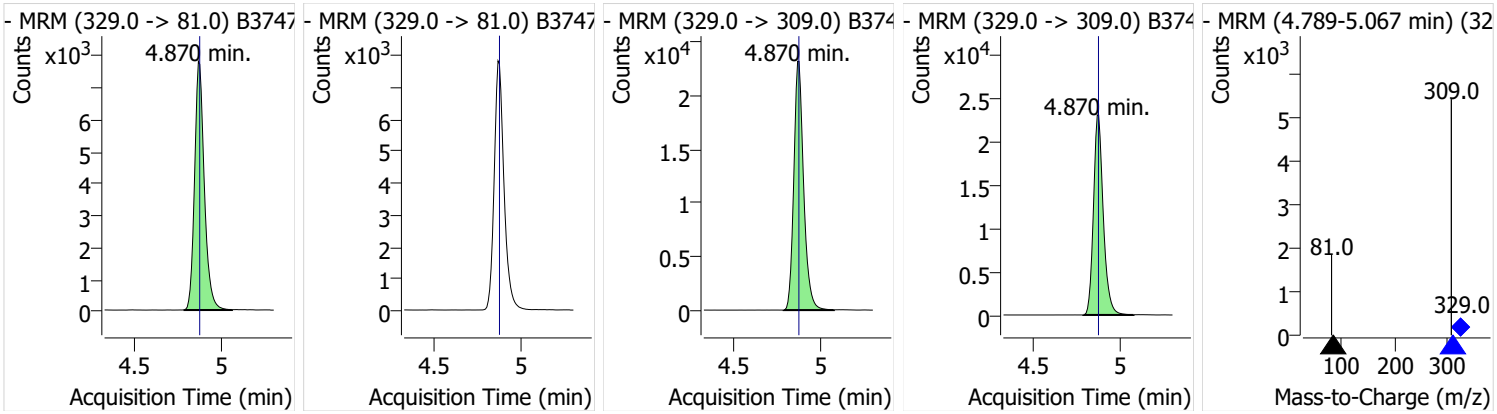

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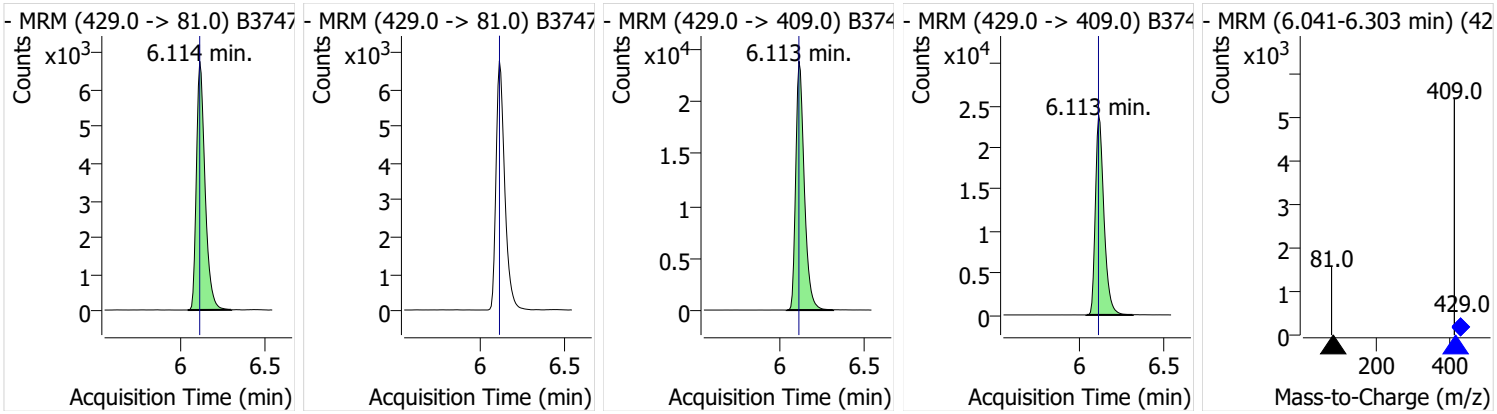

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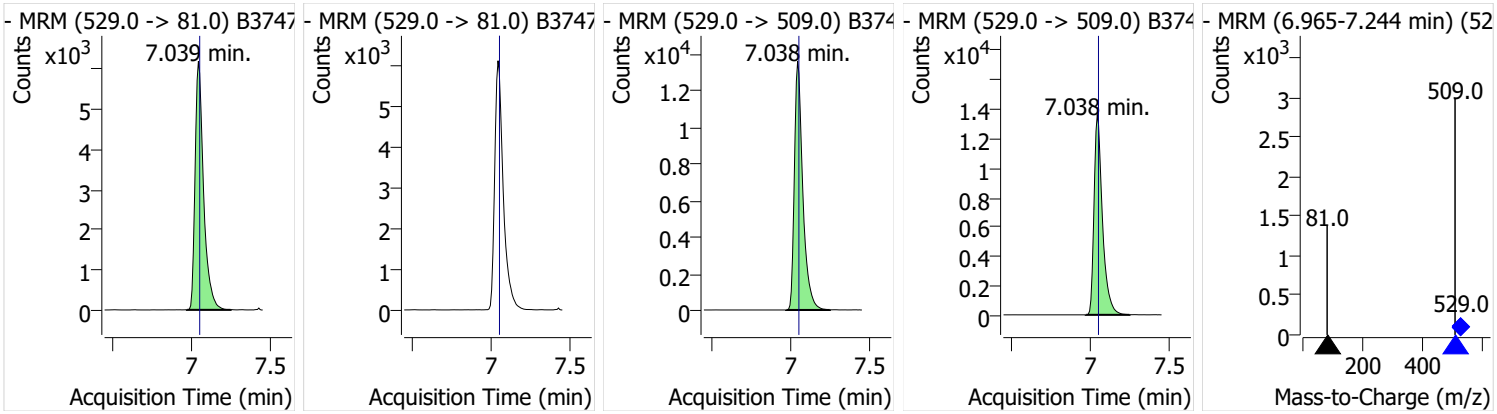
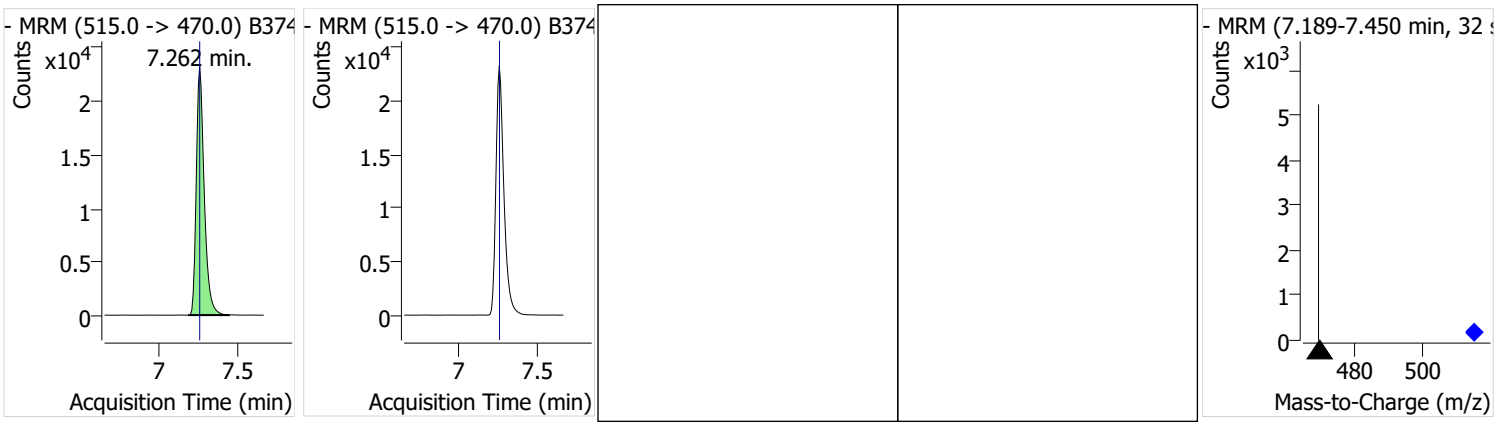


13C2-PFDA



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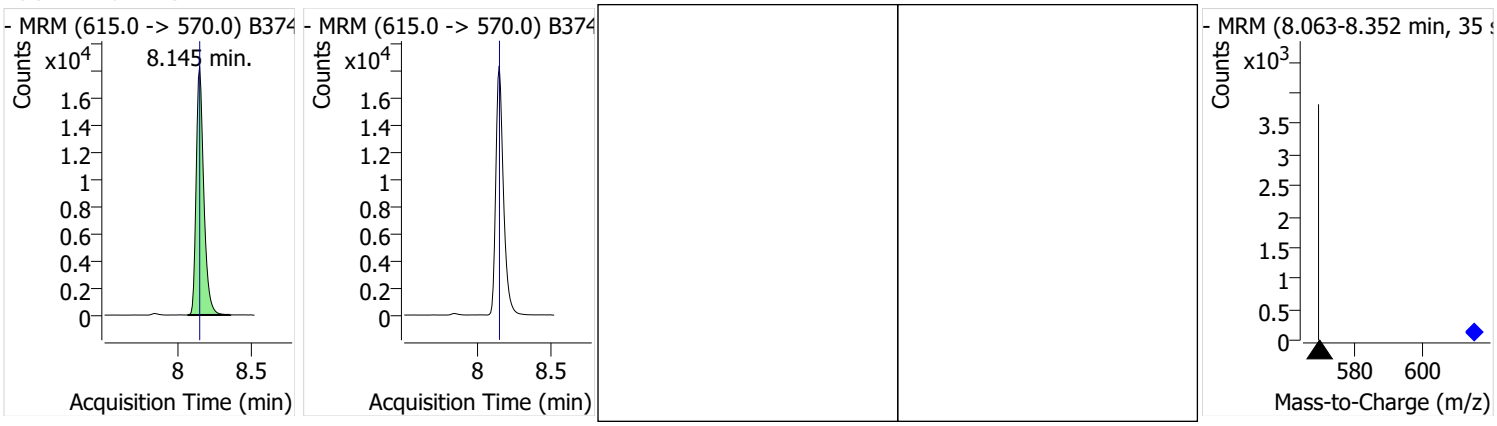

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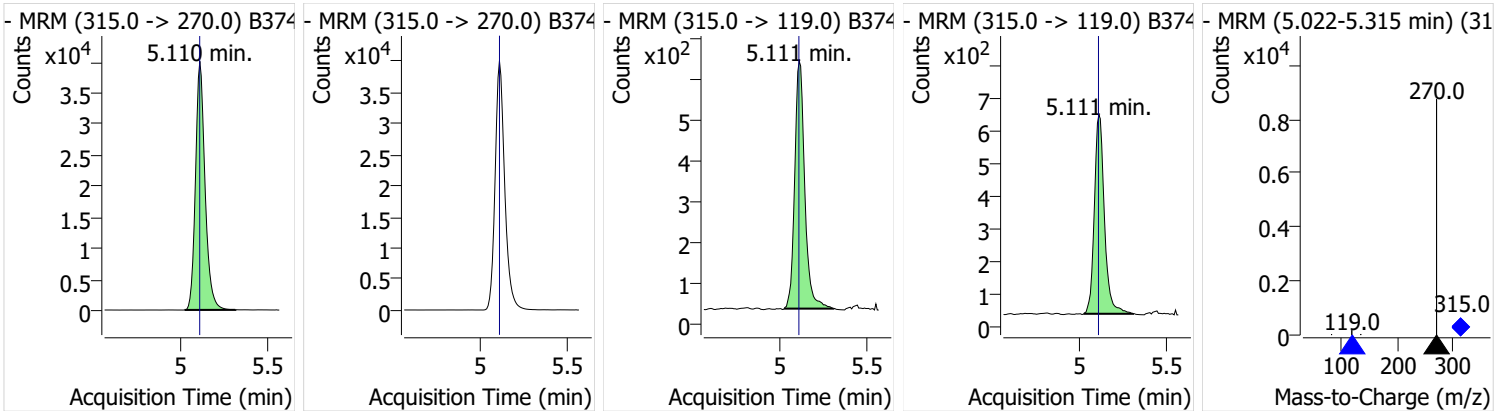
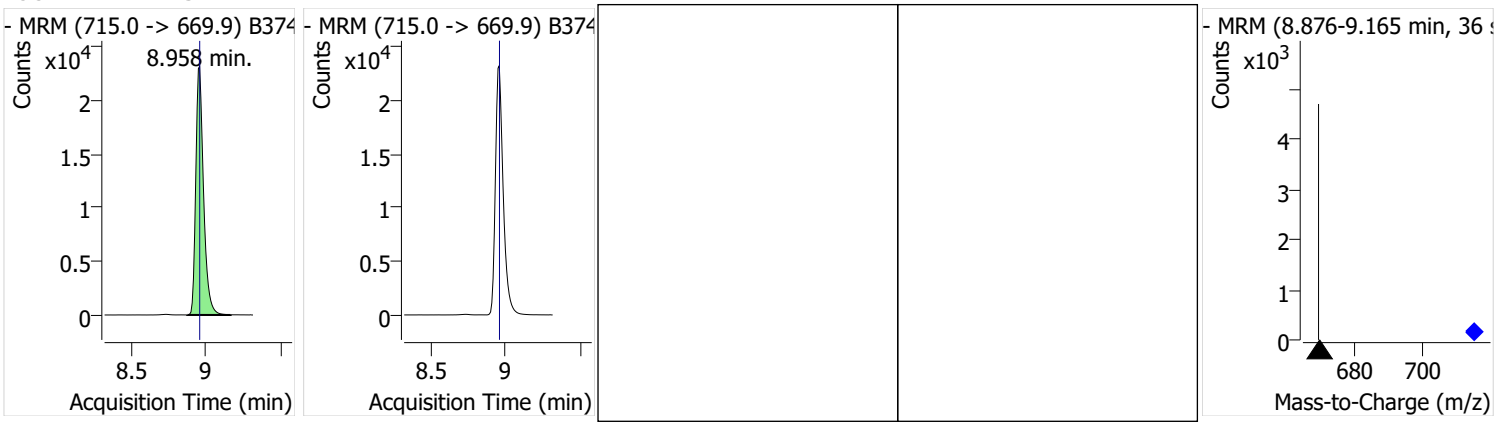
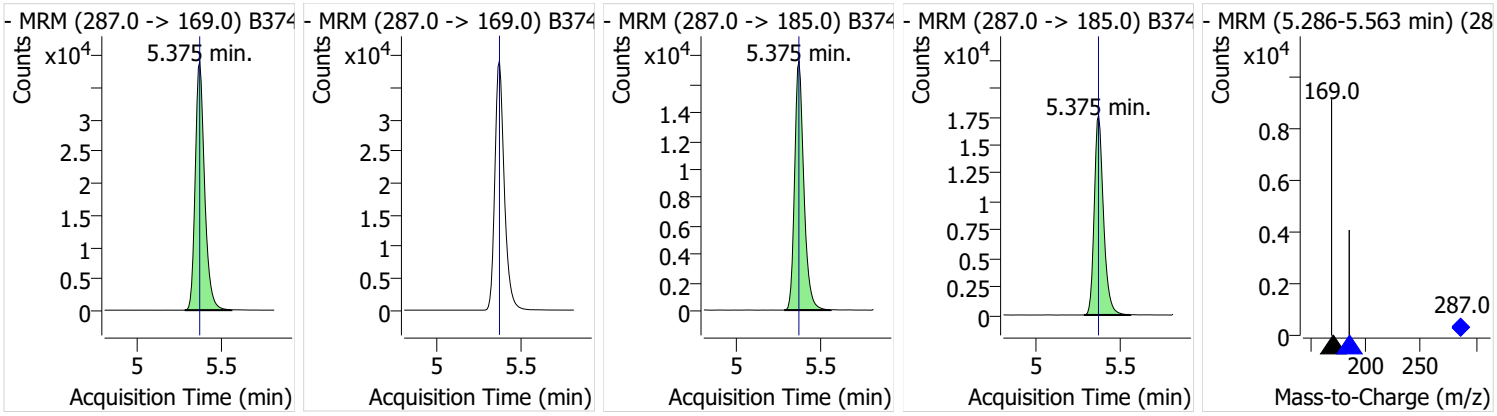


13C2-PFTeDA - ISTD



13C3-HFPODA - ISTD



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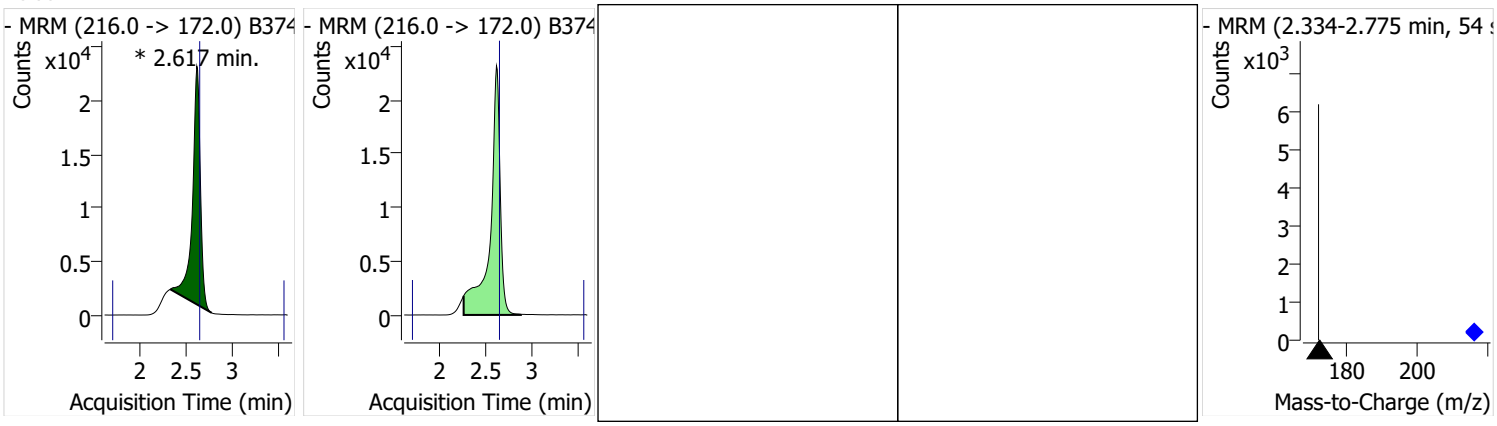
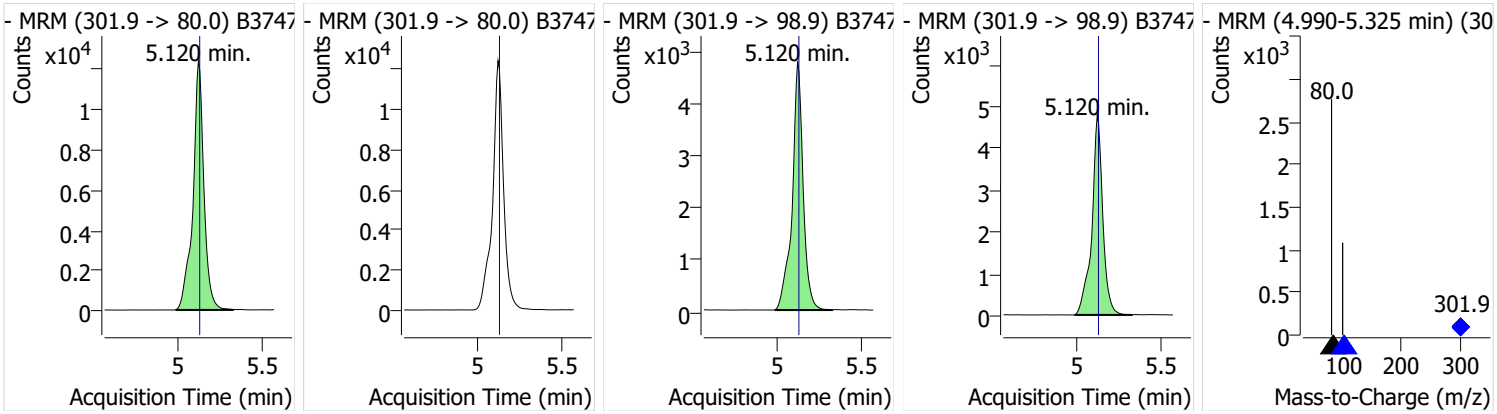
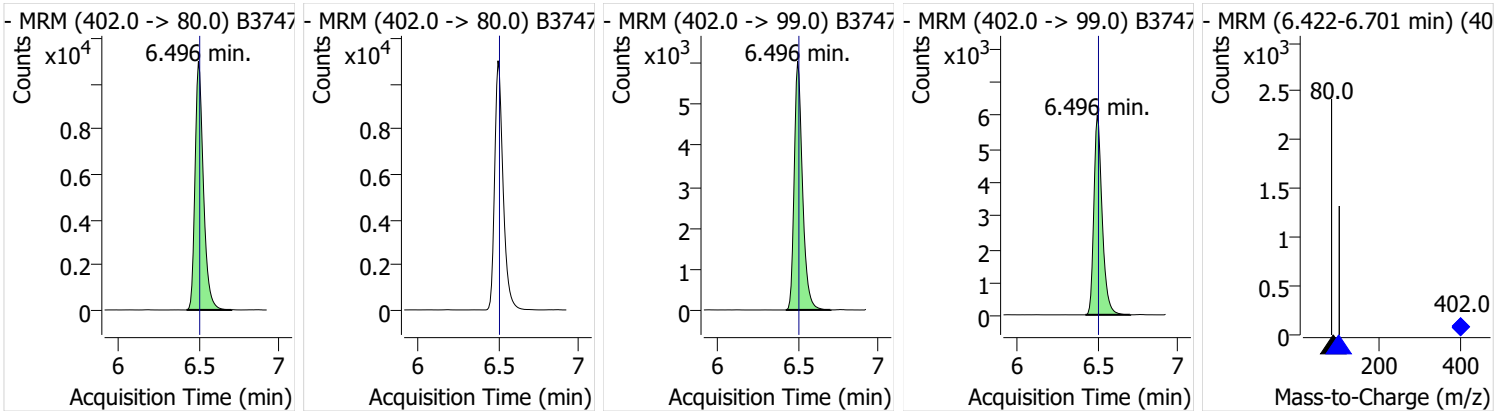


13C3-PFBS - ISTD



13C3-PFHxS - ISTD



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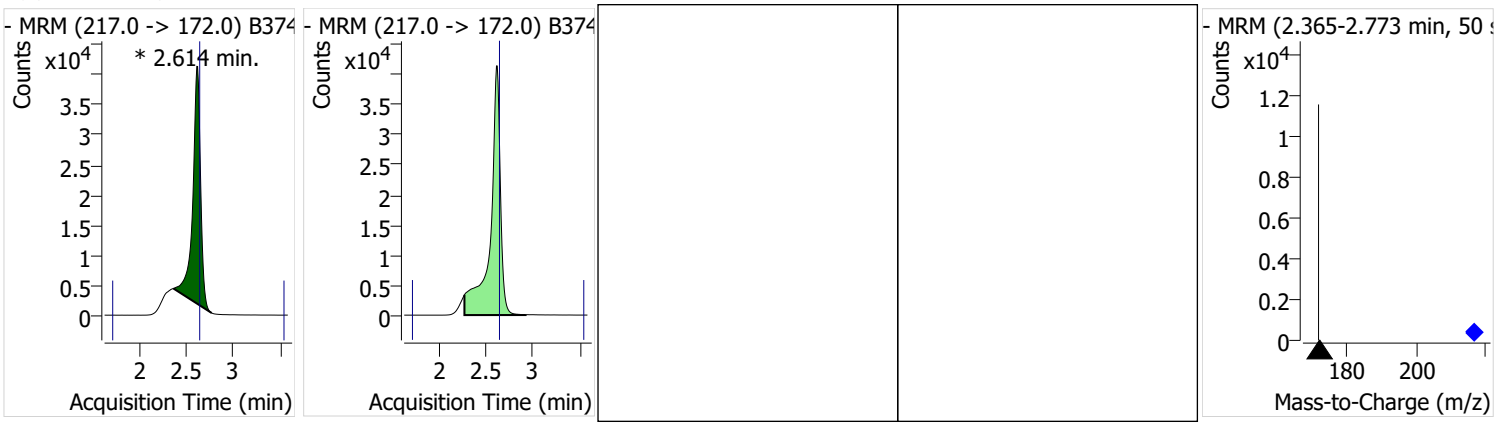

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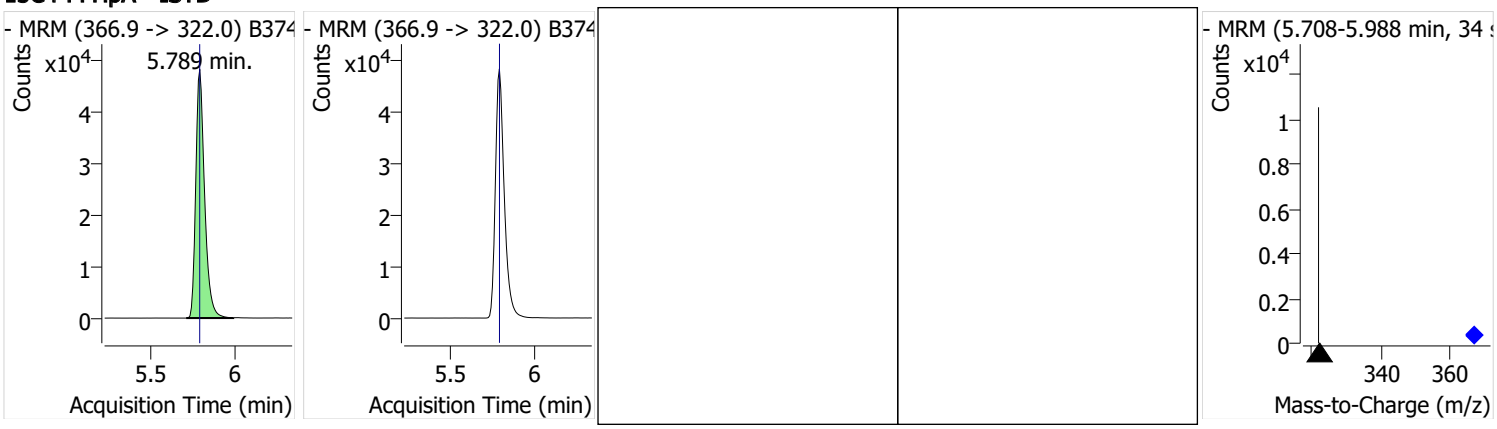

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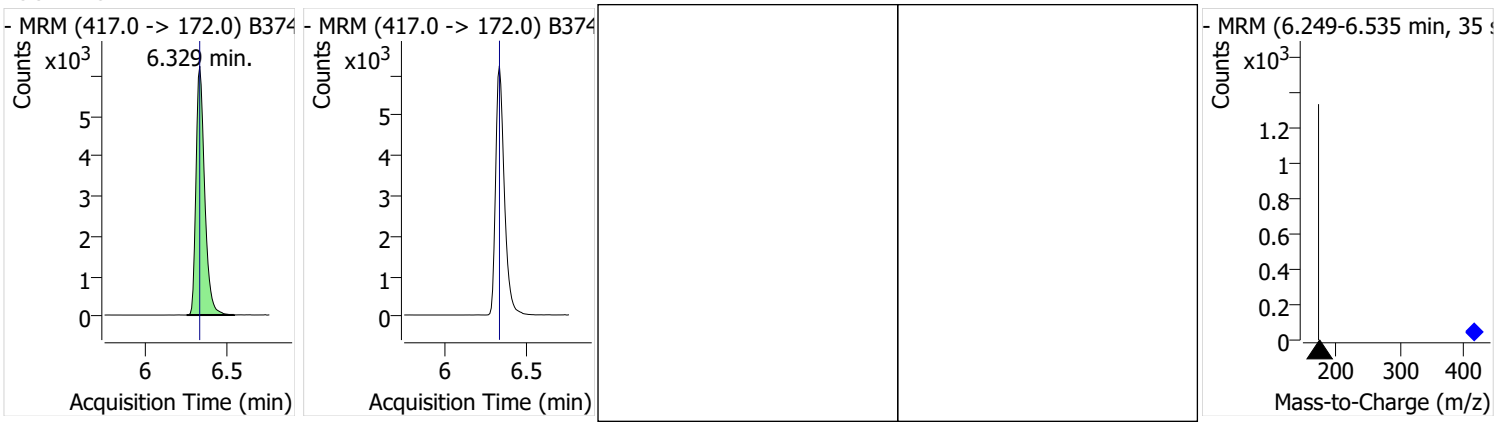
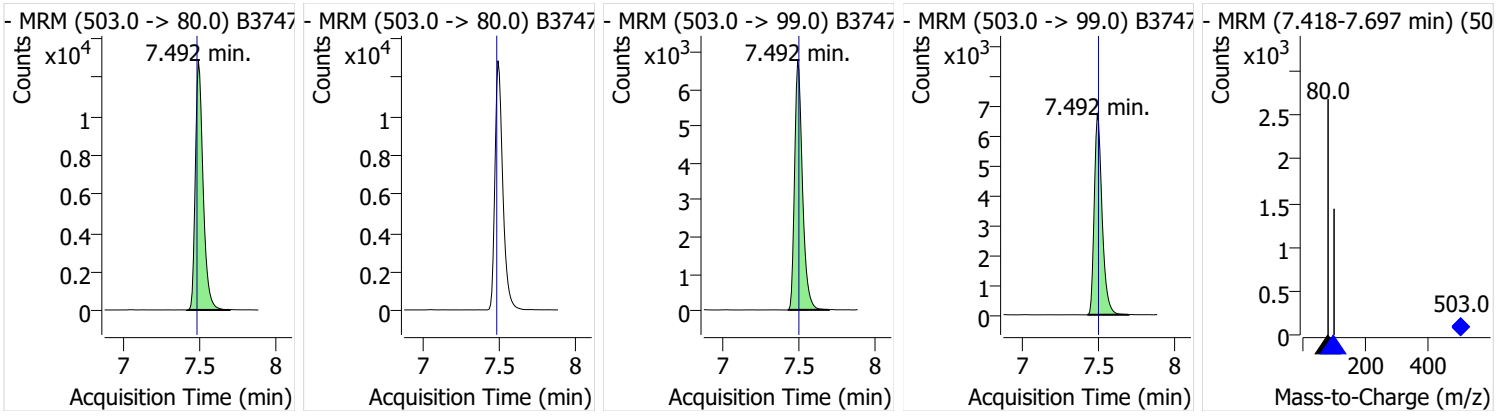
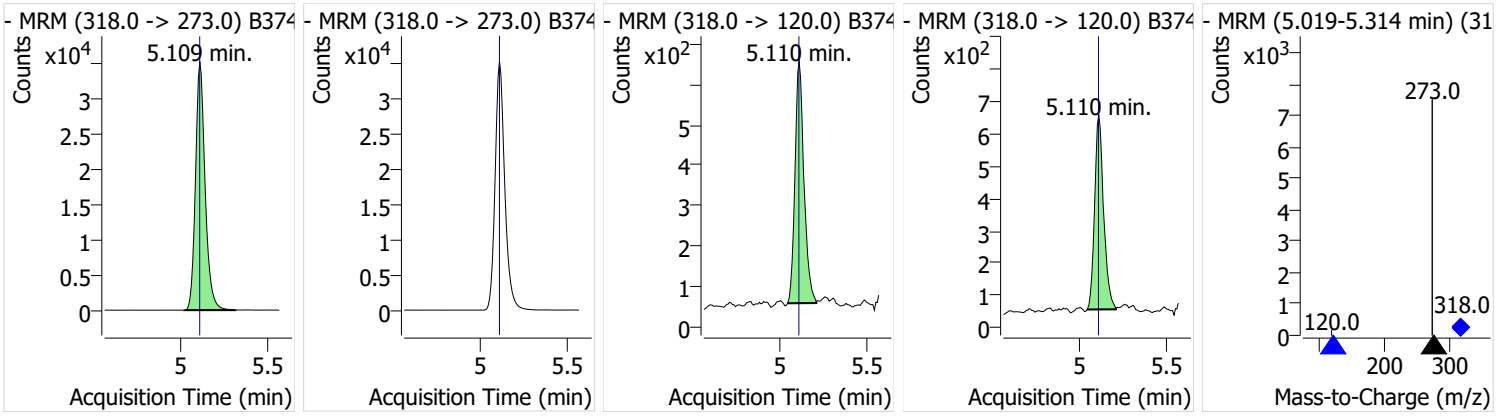


13C4-PFOS



13C5-PFHxA - ISTD



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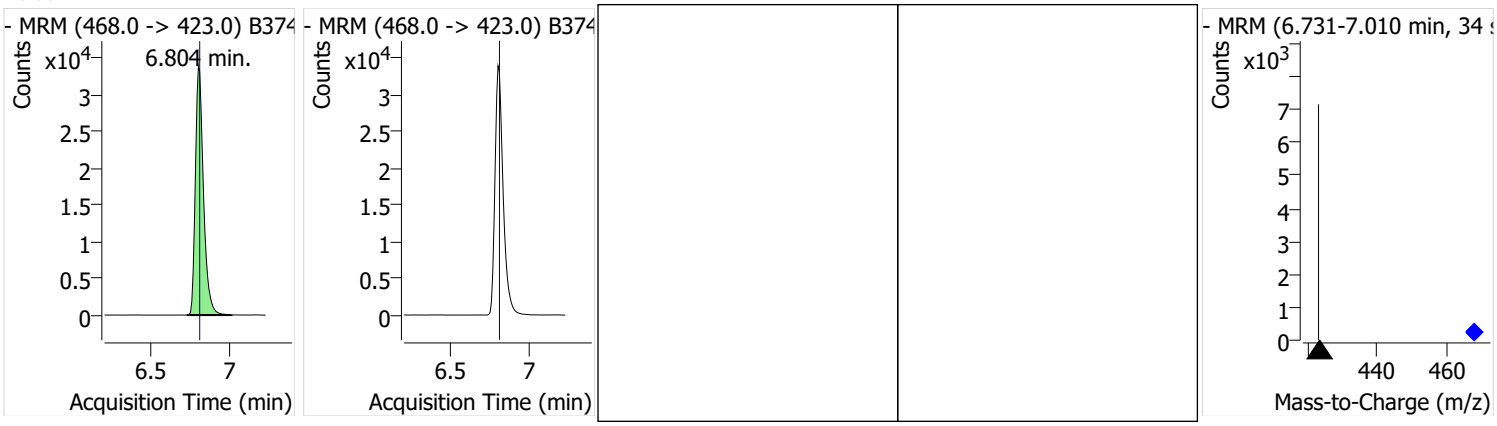
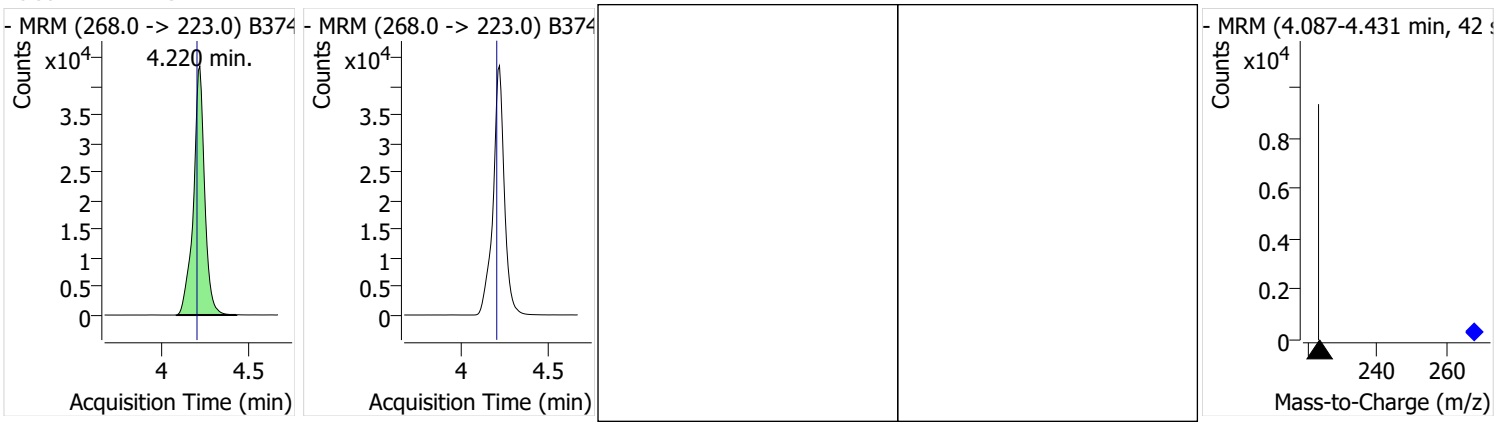
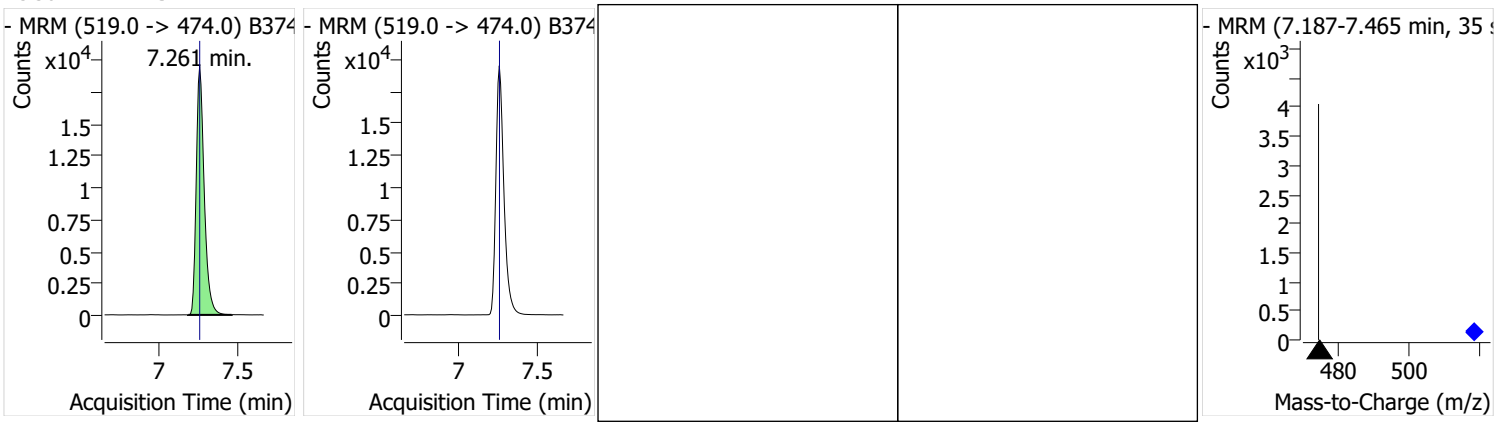


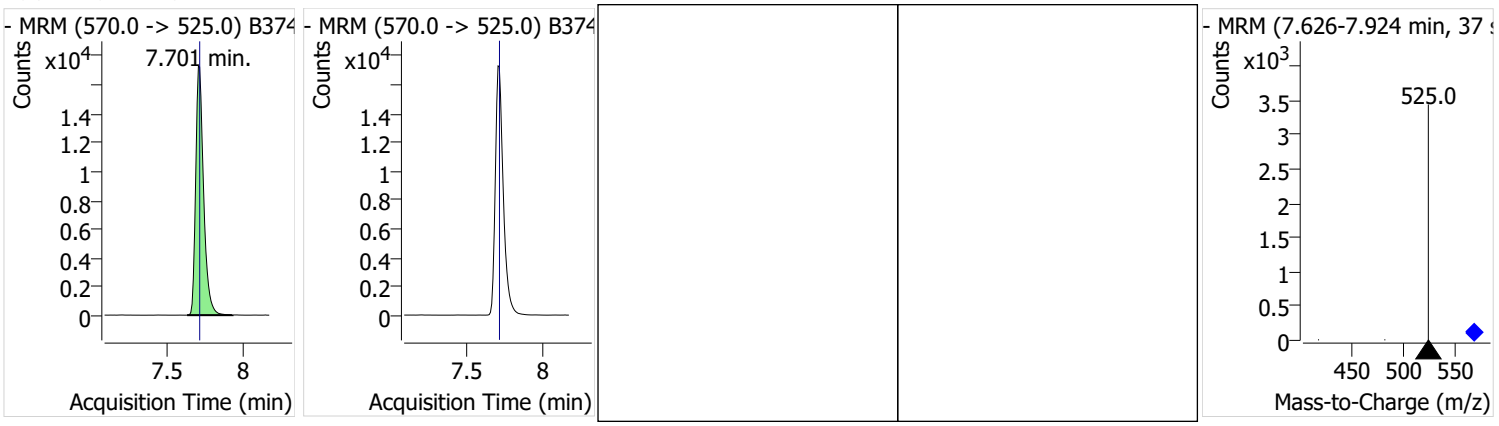
13C5-PFPeA - ISTD



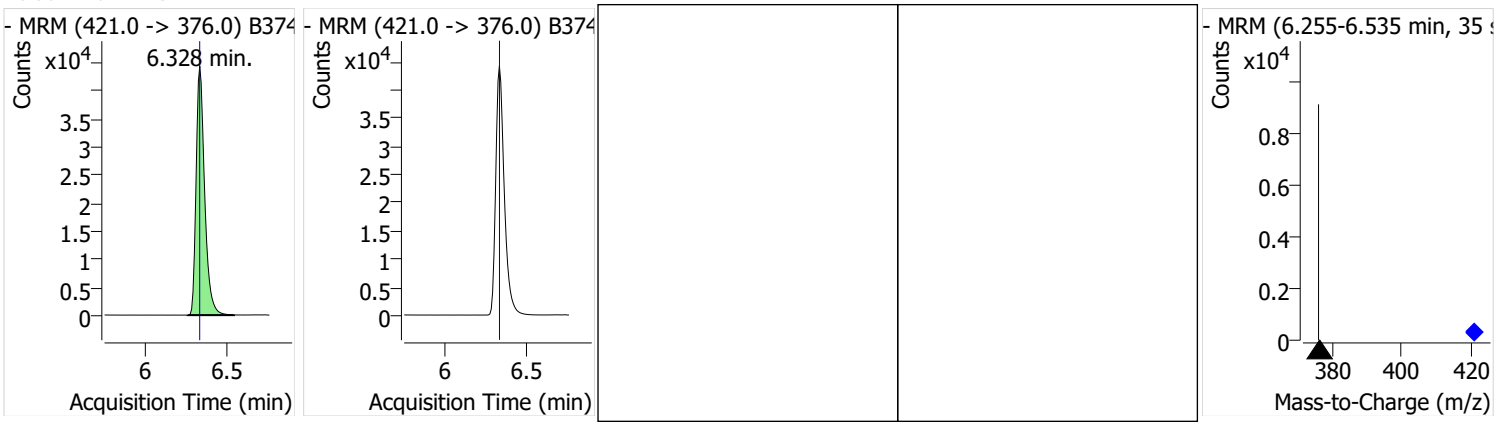
13C6-PFDA - ISTD



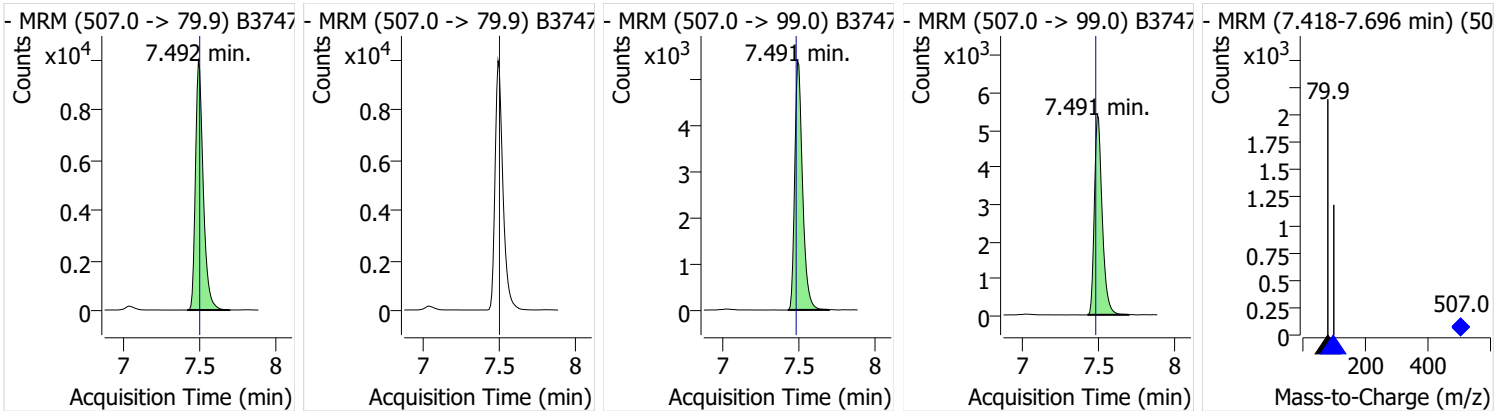
13C7-PFUnA - ISTD



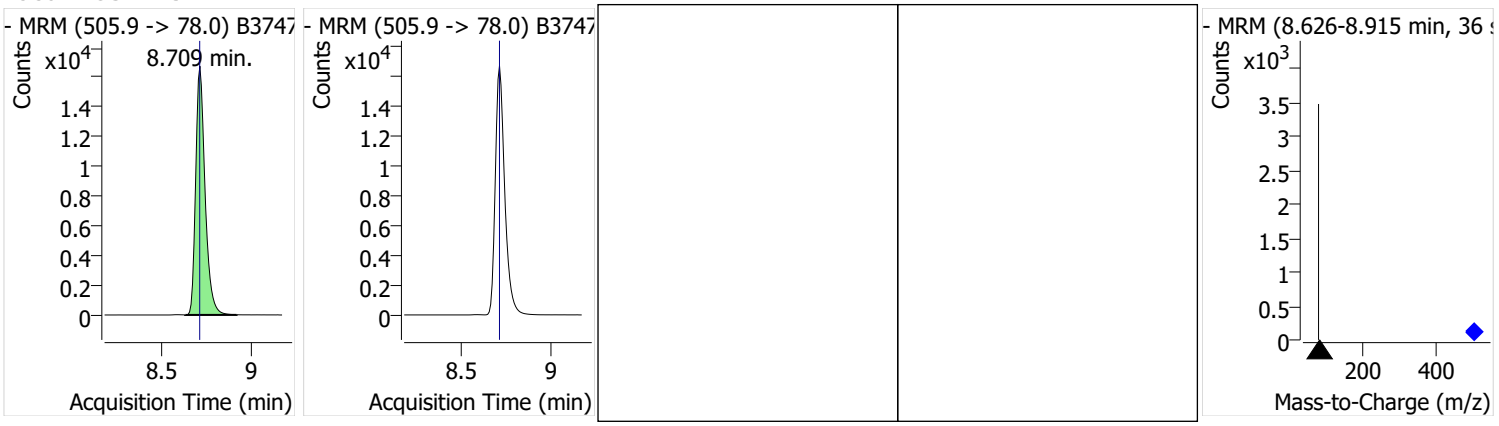
13C8-PFOA - ISTD



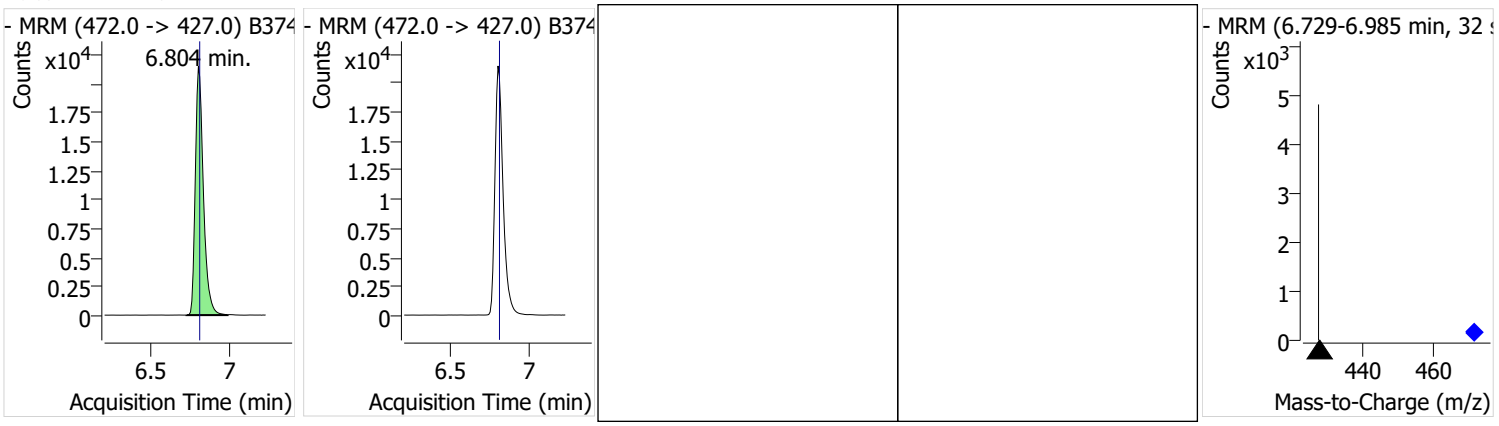
13C8-PFOS - ISTD



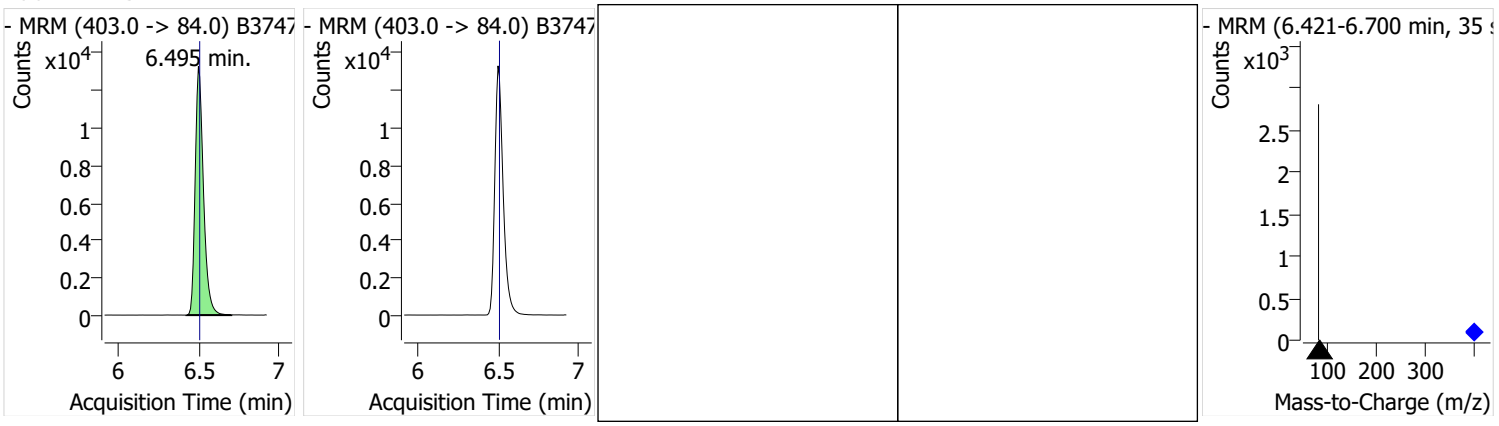
13C8-PFOSA - ISTD



13C9-PFNA - ISTD



18O2-PFHxS



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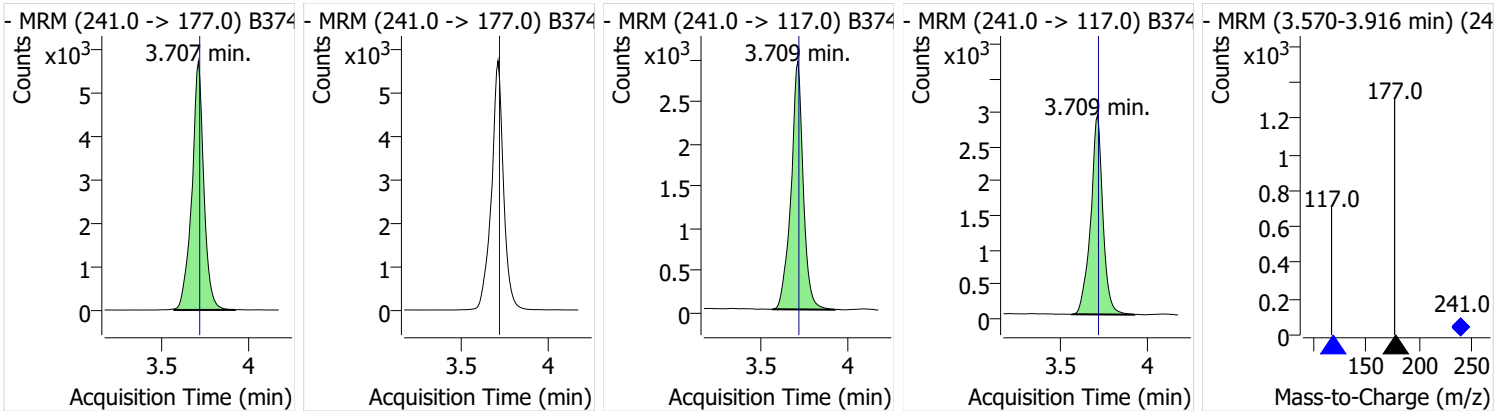

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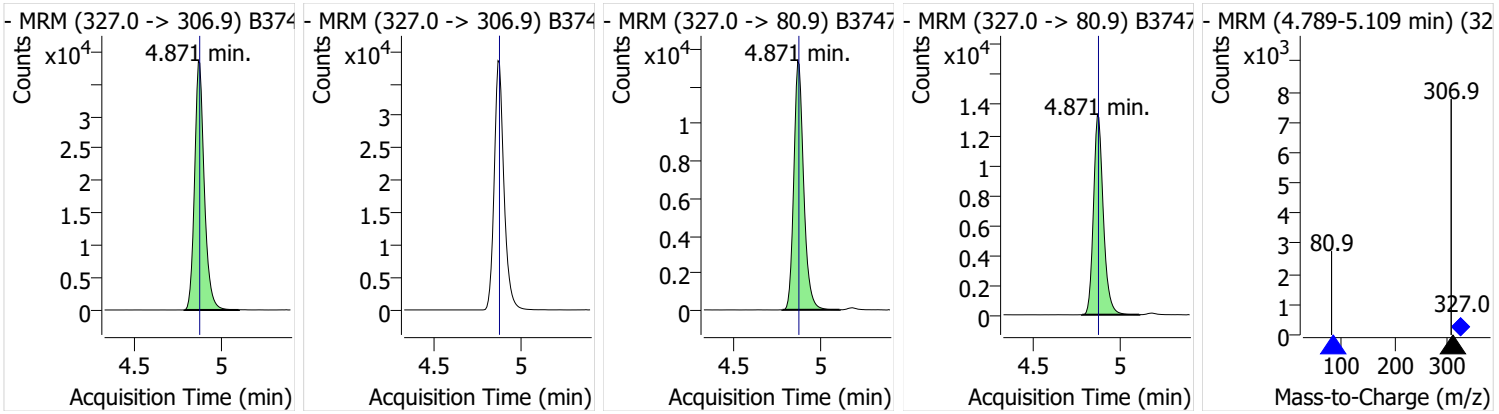

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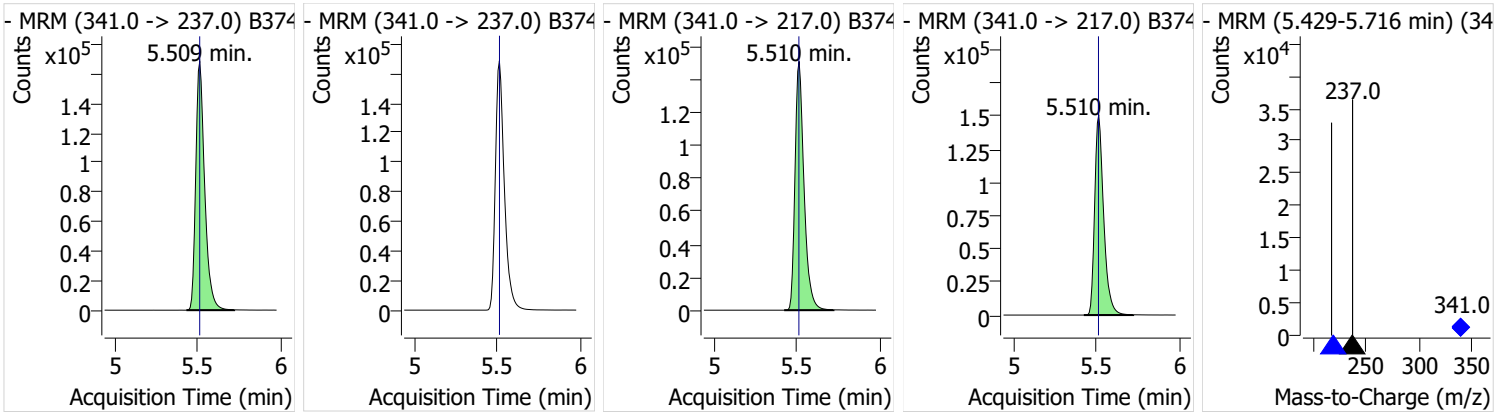

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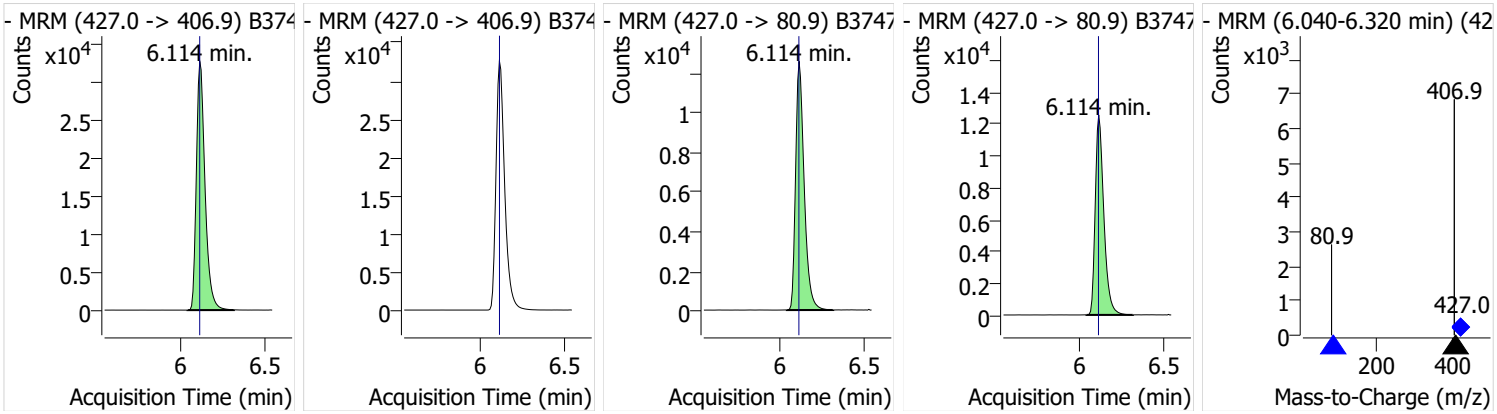

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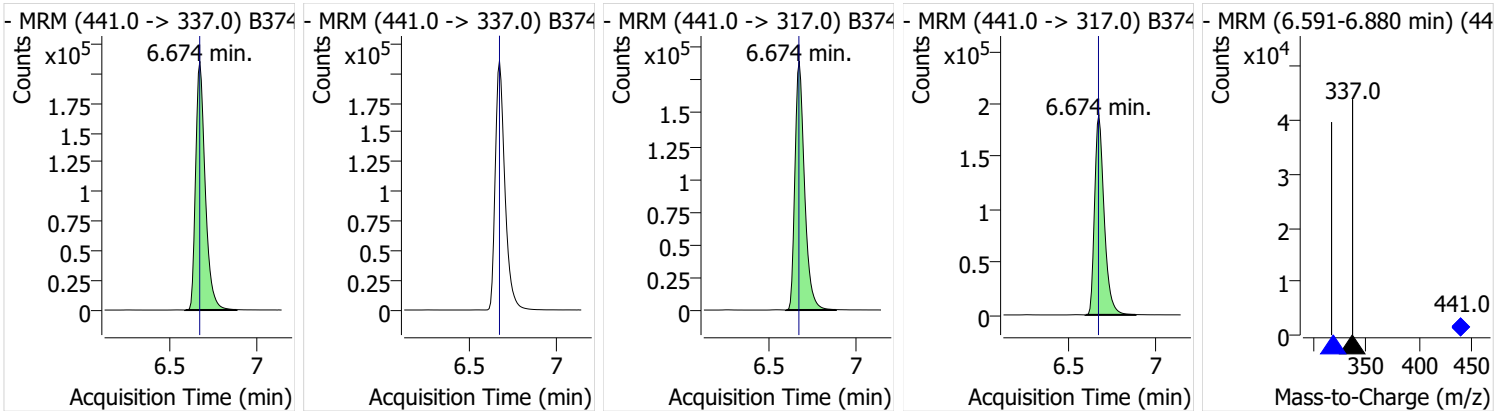

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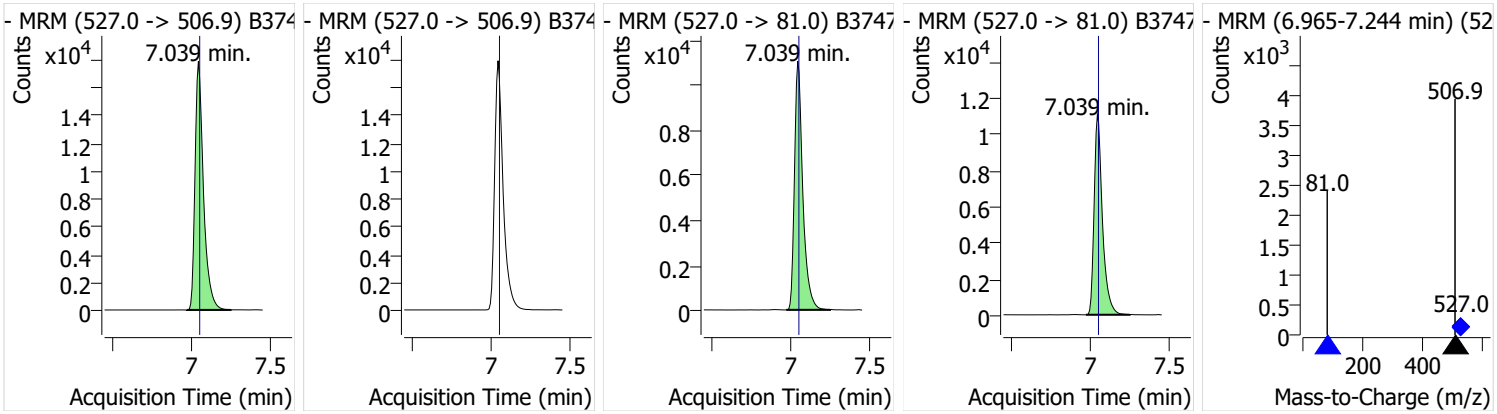
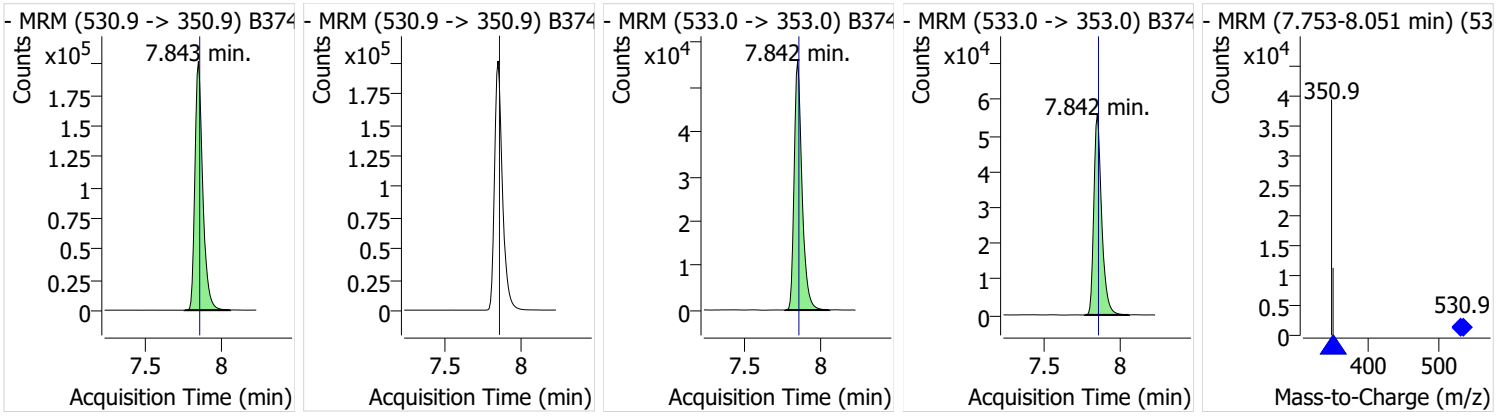


9Cl-PF3ONS



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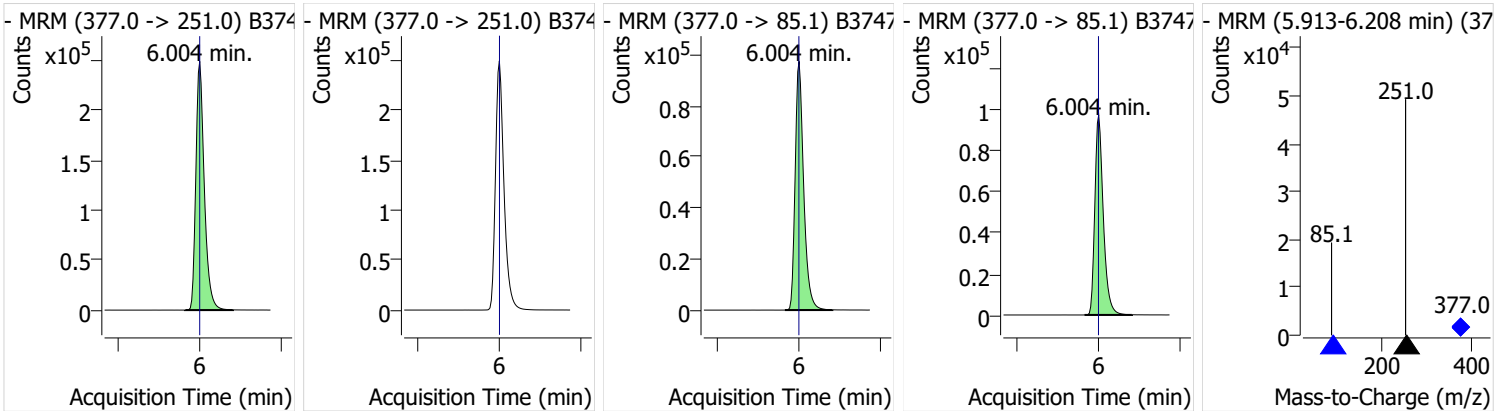
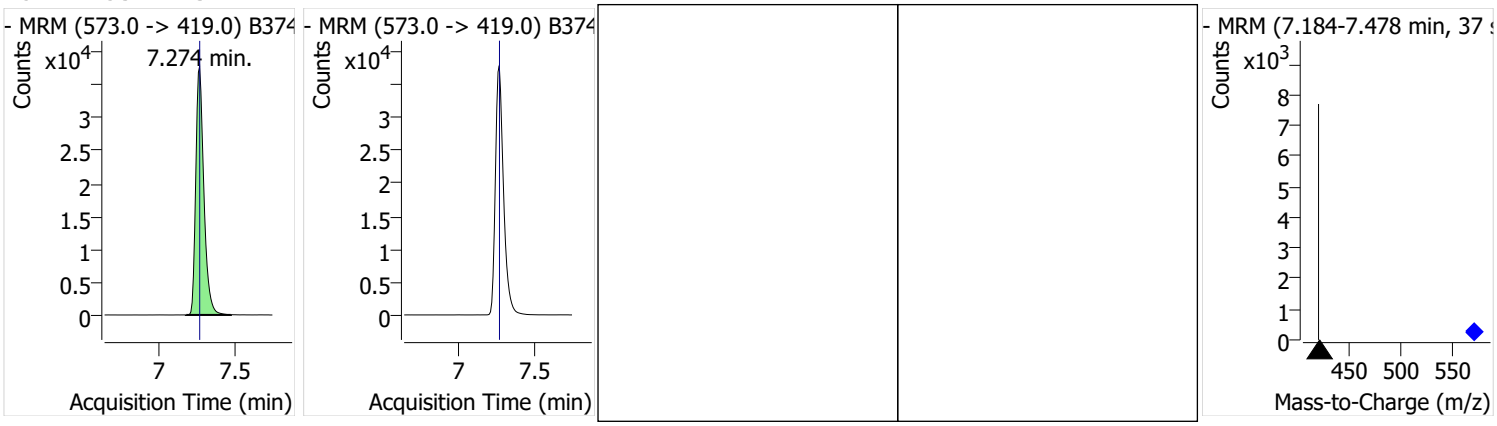
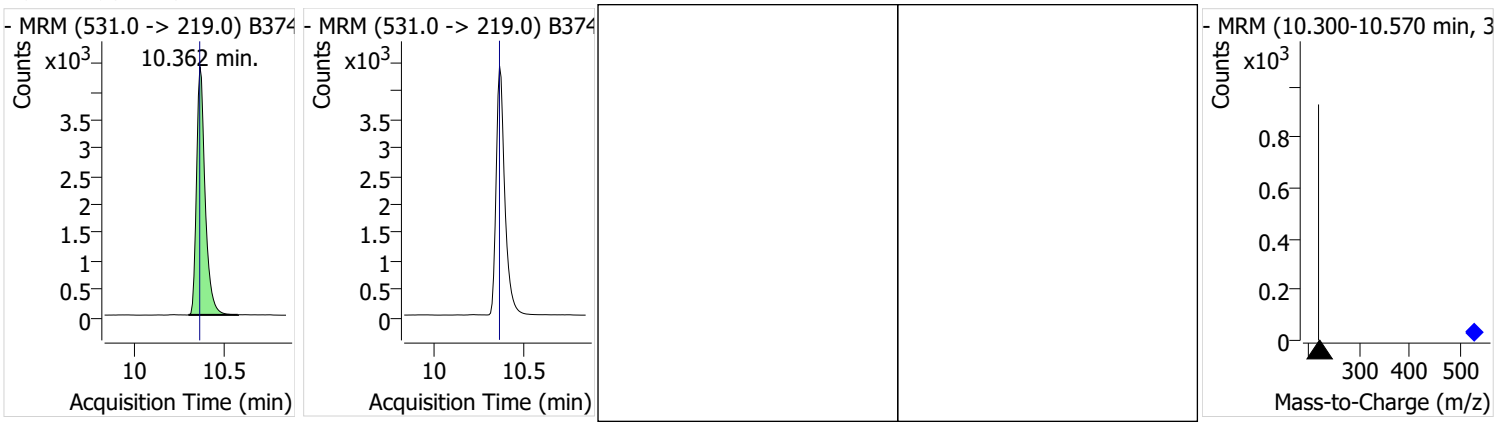


D3-NMeFOSA - ISTD

D3-NMeFOSAA - ISTD

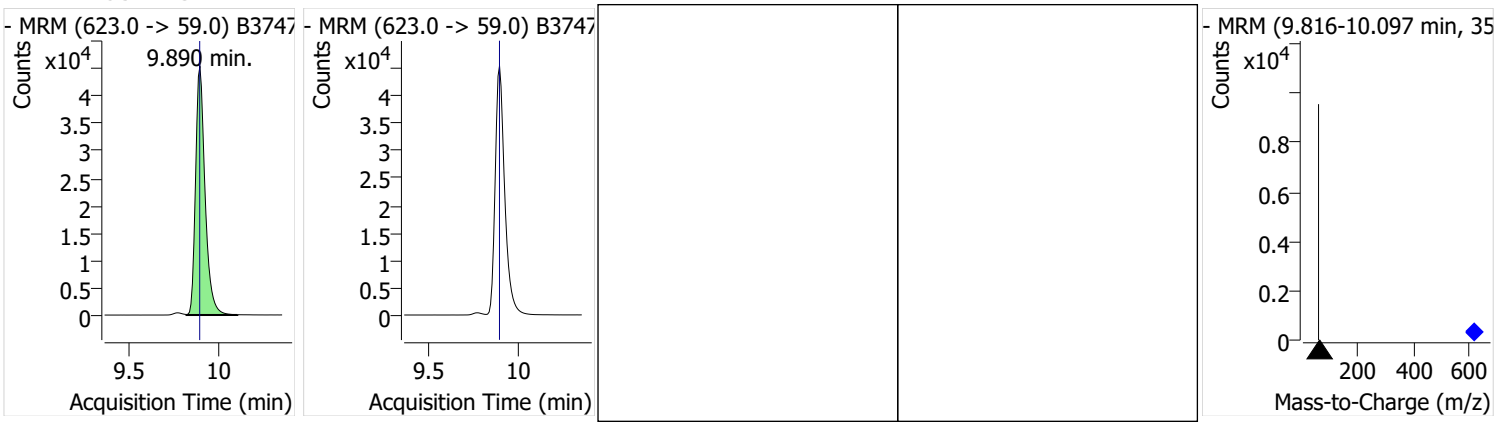


D5-NEtFOSA - ISTD

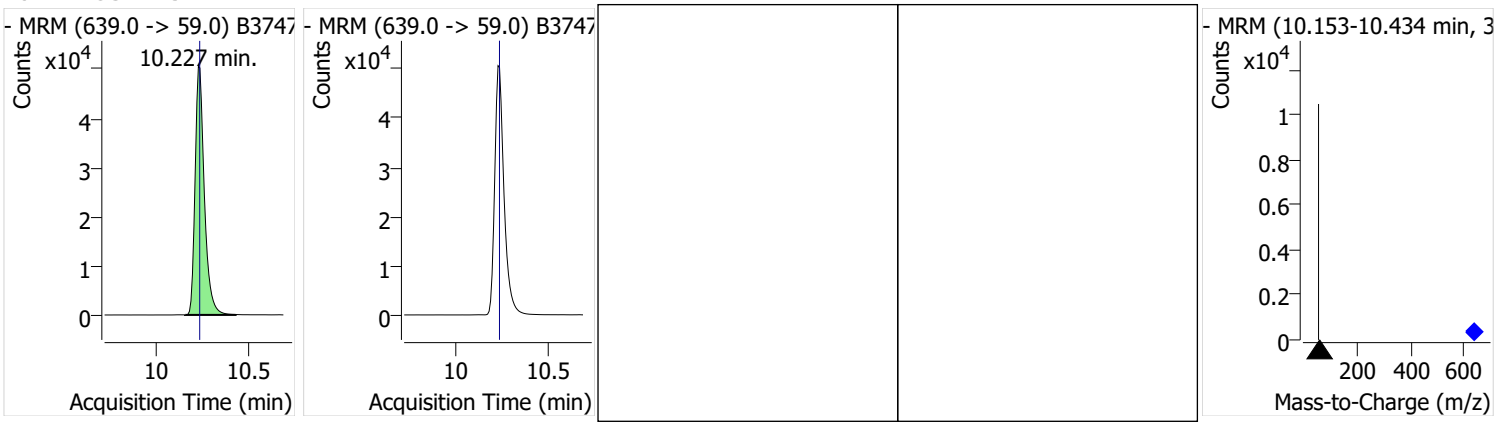


D5-NEtFOSAA - ISTD

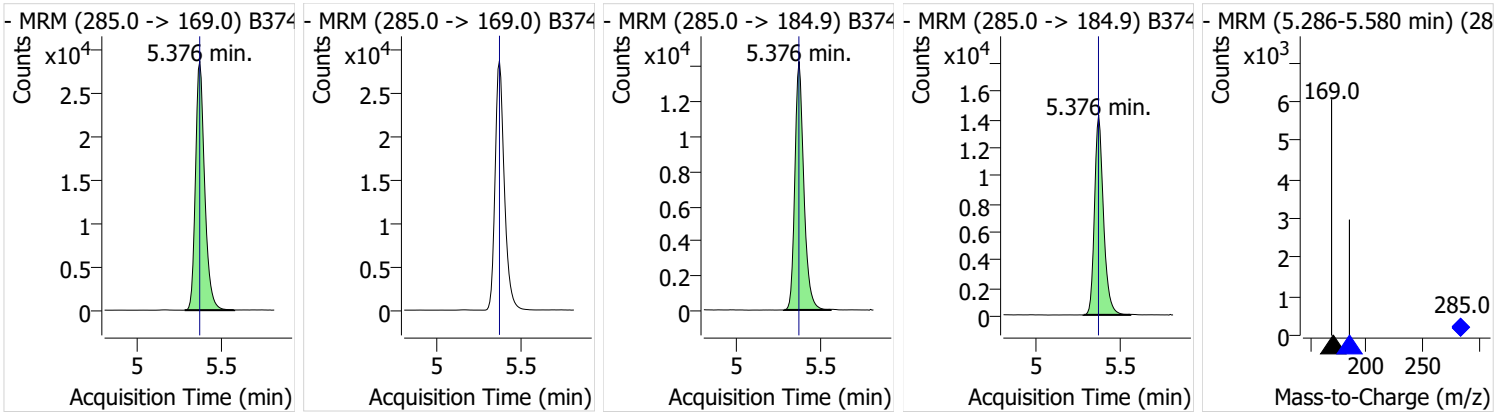
D7-NMeFOSE - ISTD



D9-NEtFOSE - ISTD



HFPO-DA



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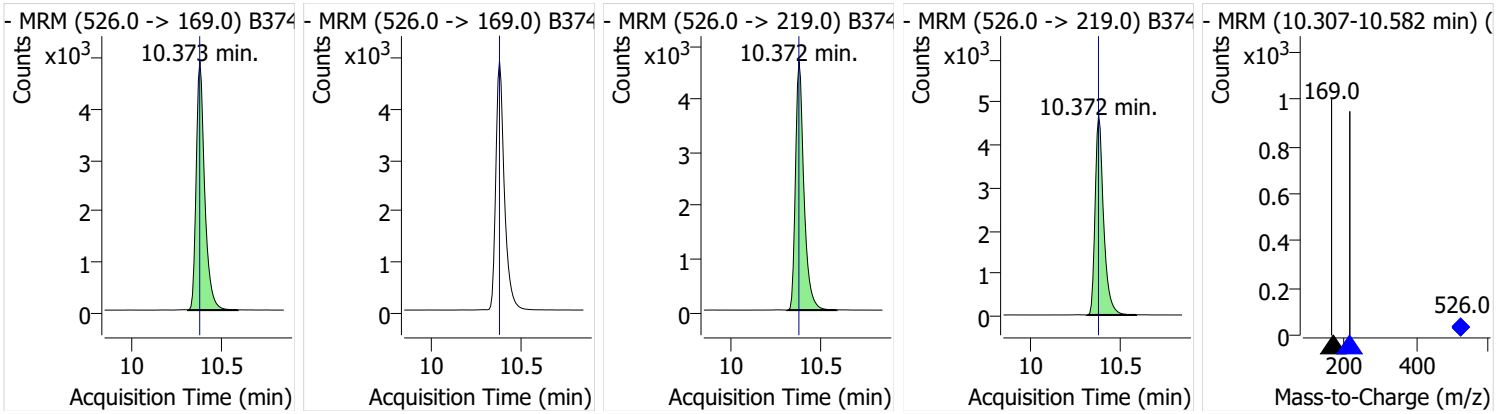

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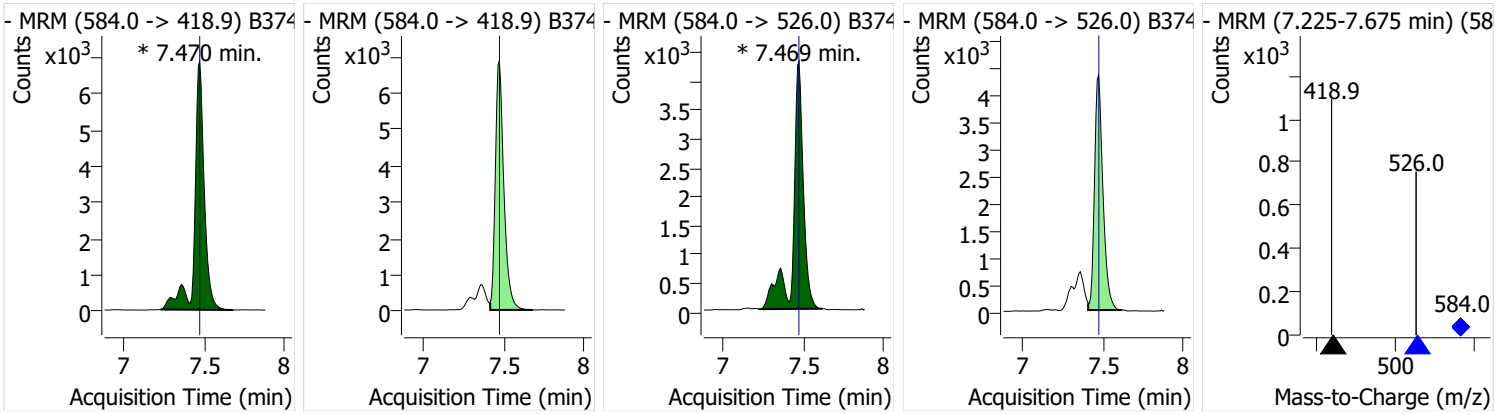

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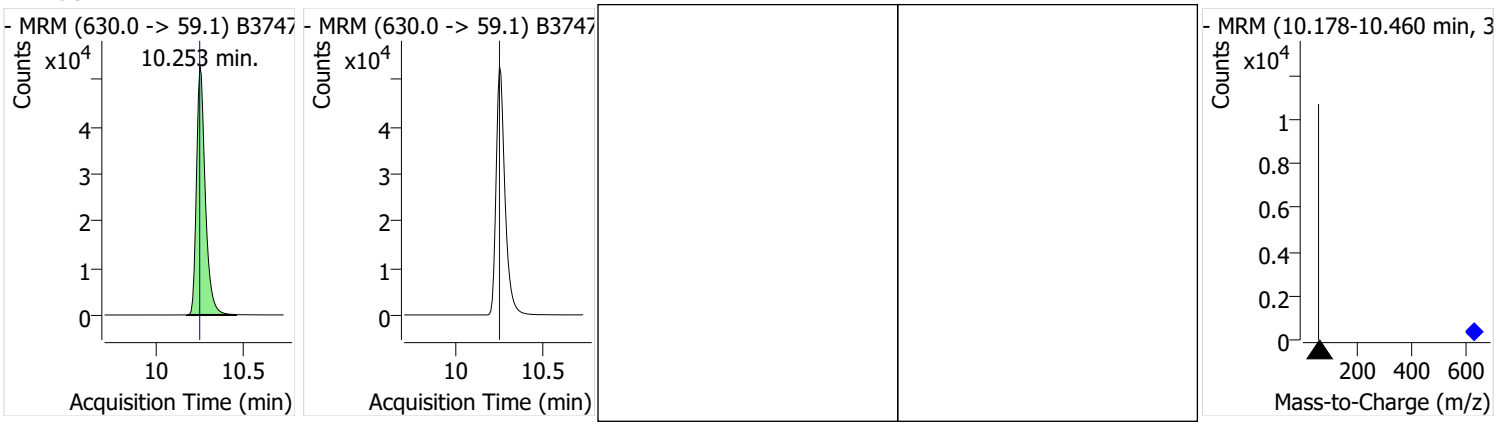

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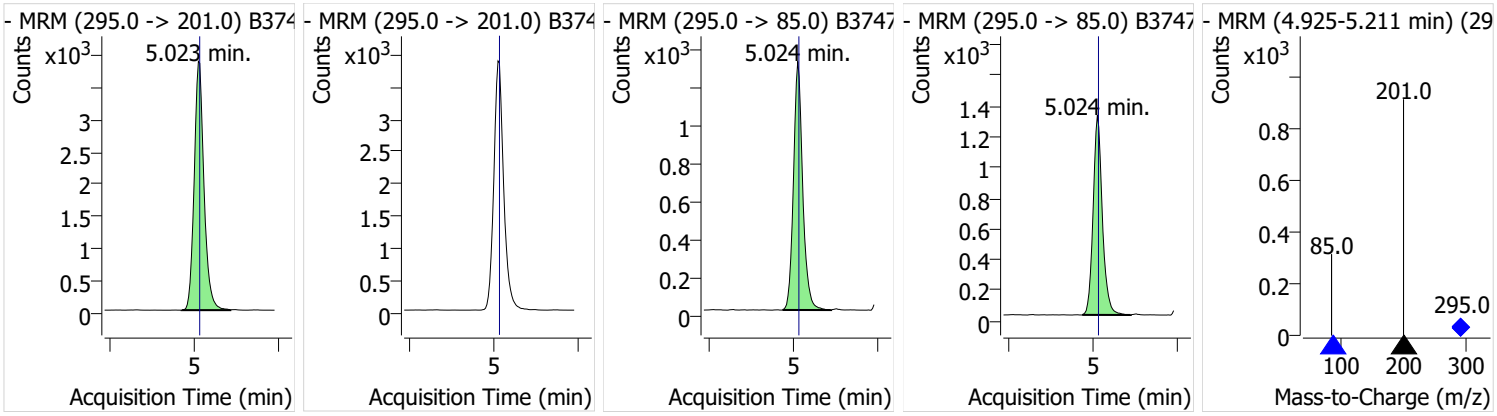

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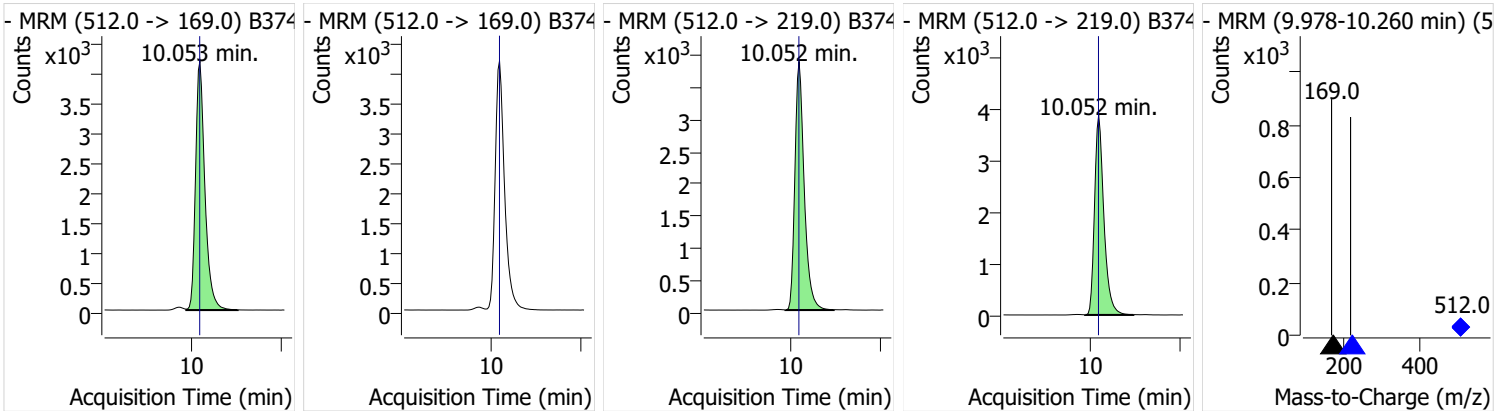

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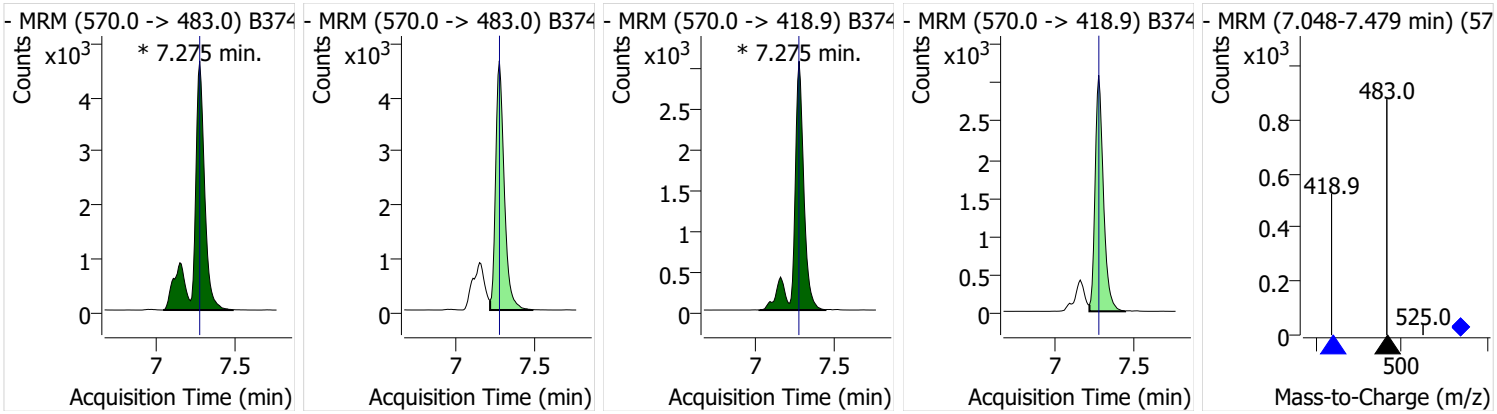

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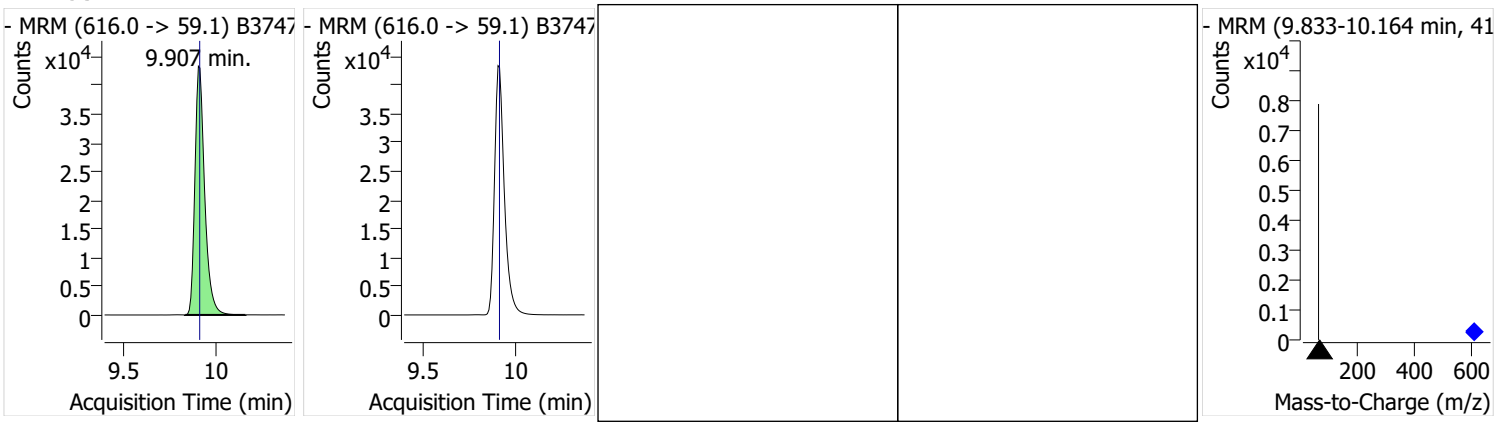

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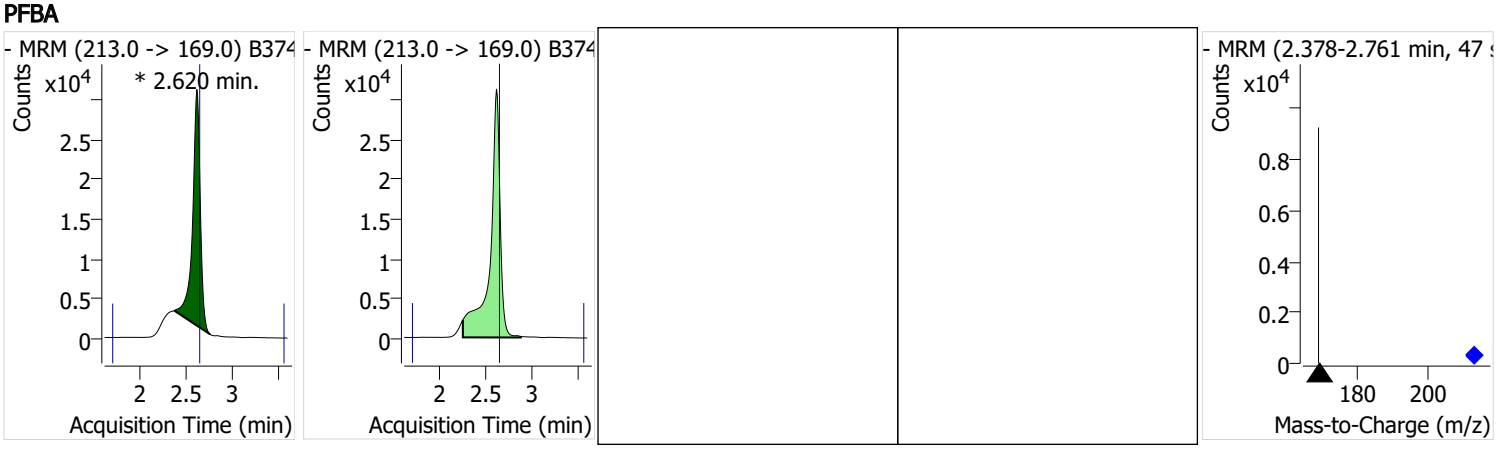

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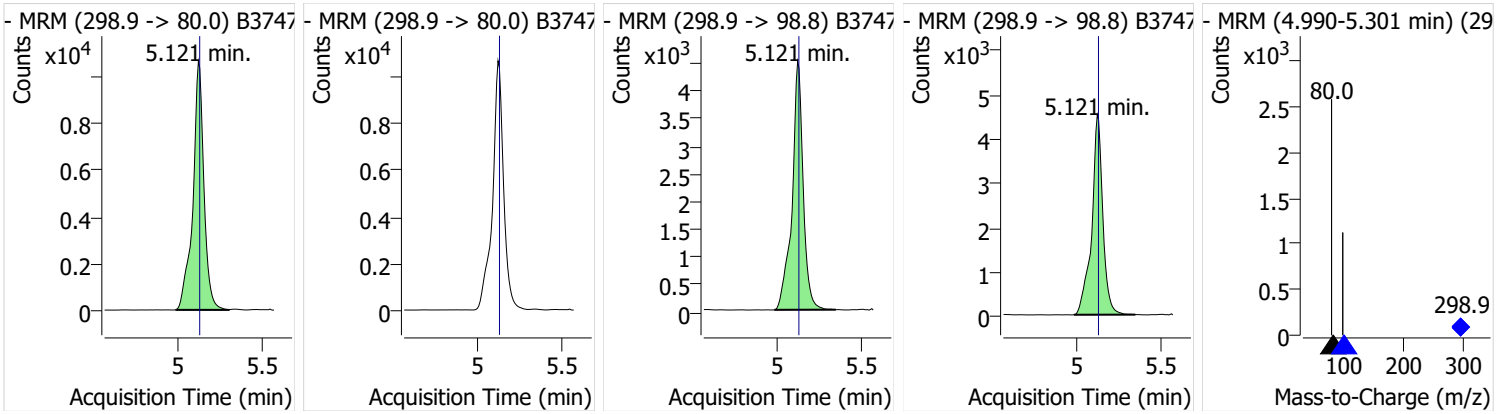

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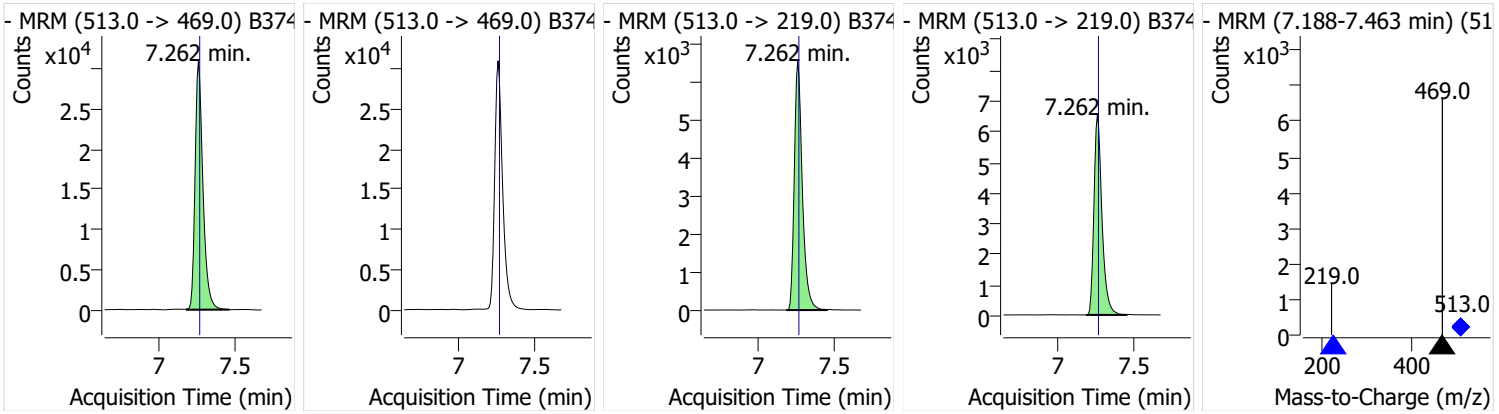

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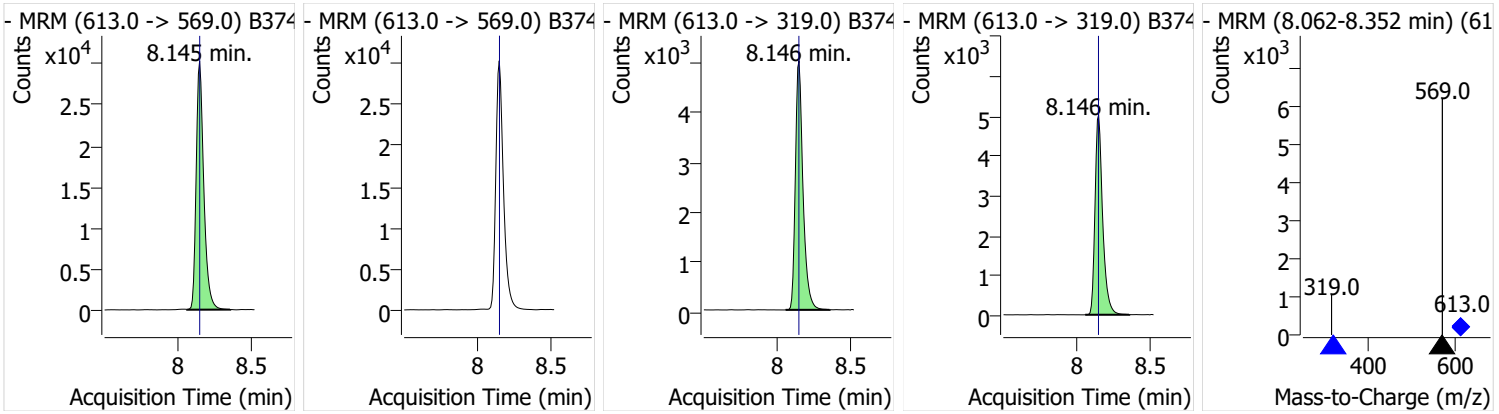

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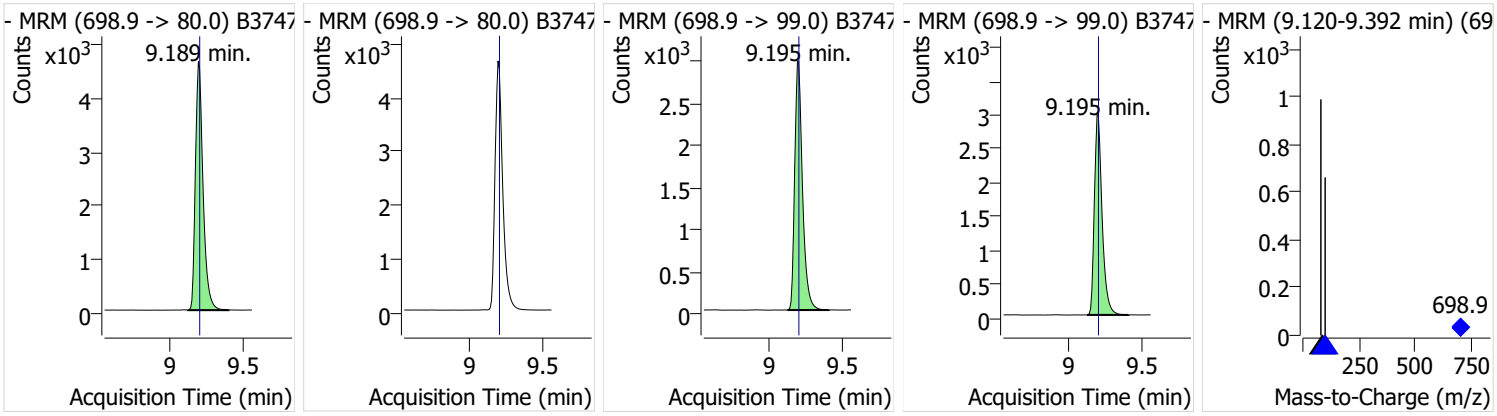

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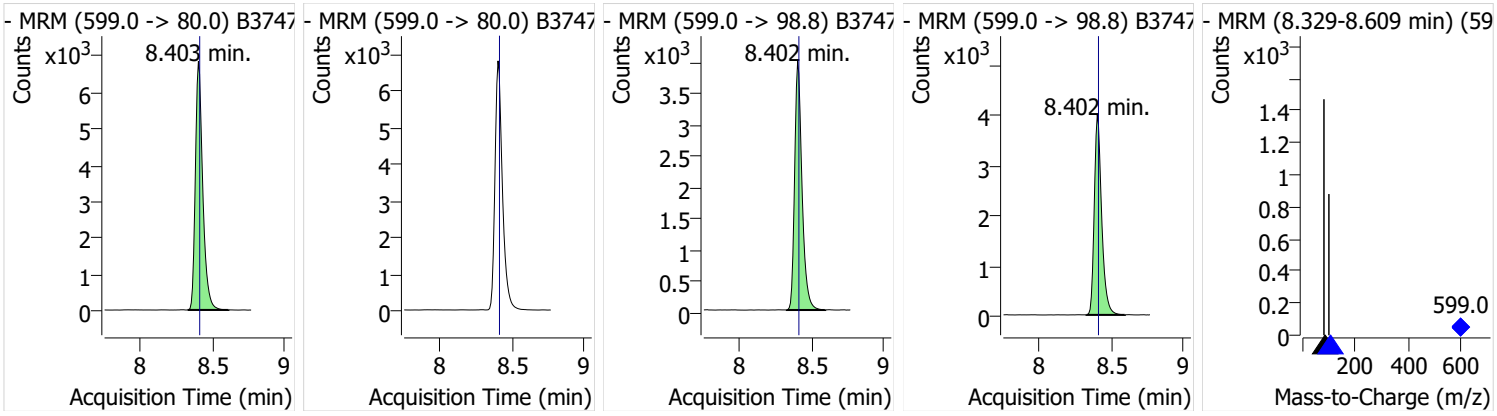

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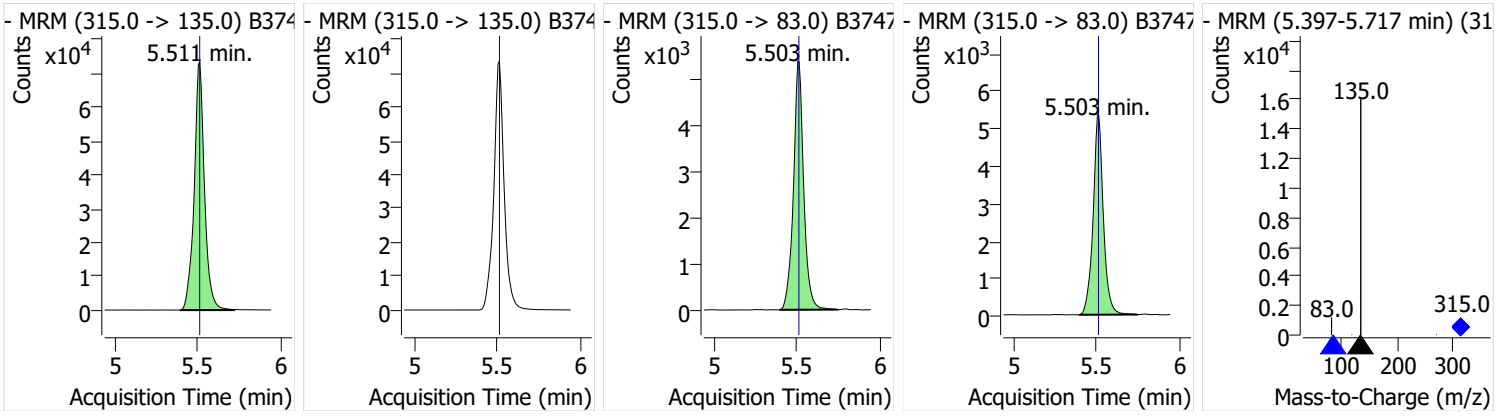

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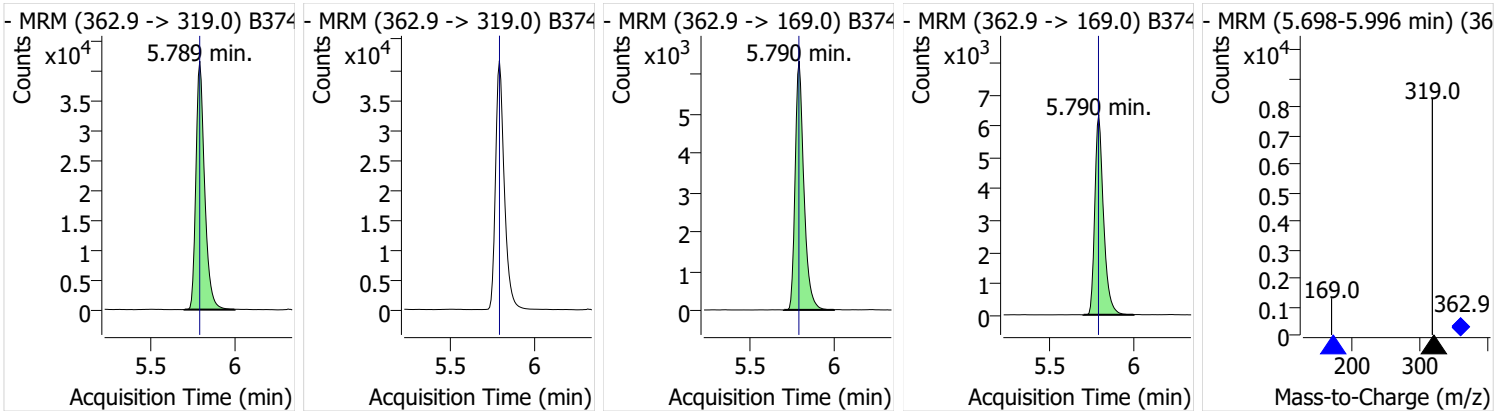

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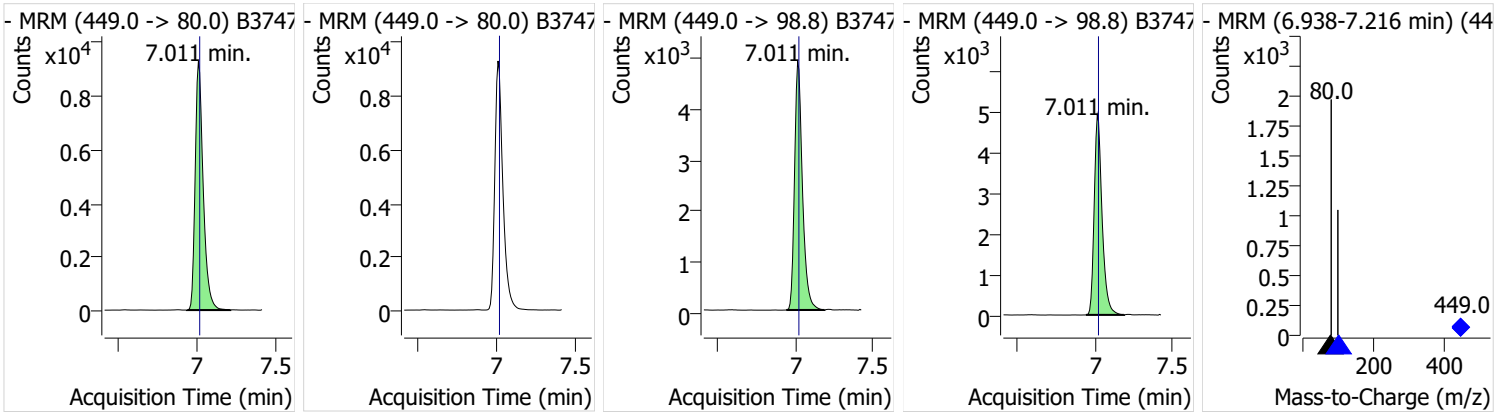

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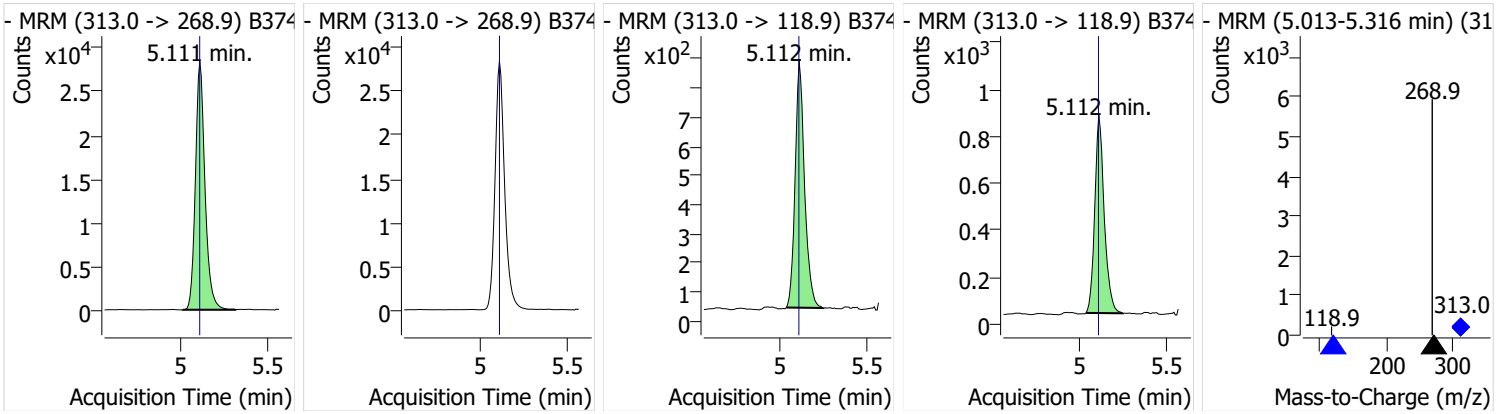

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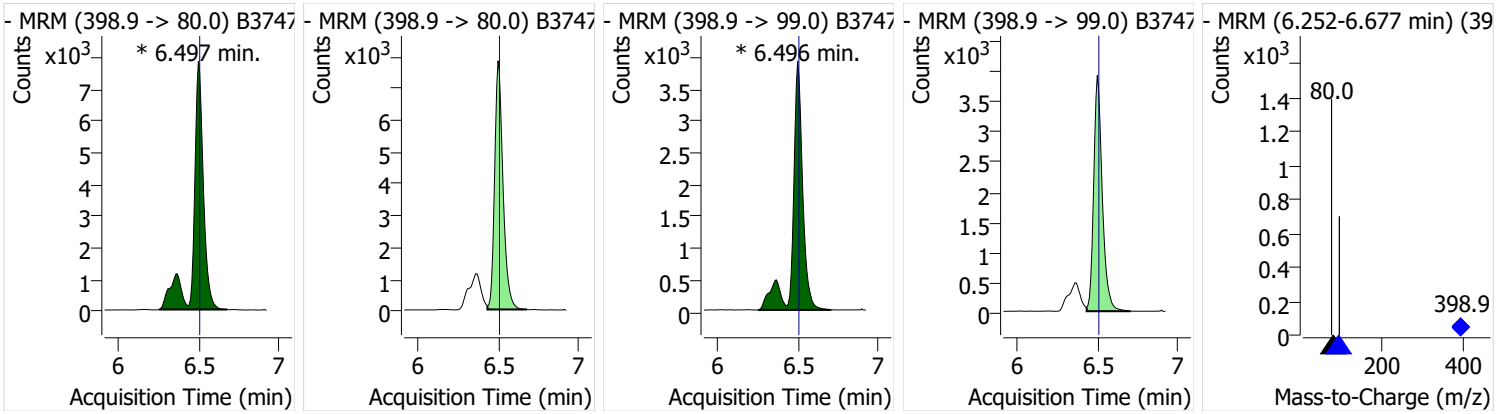

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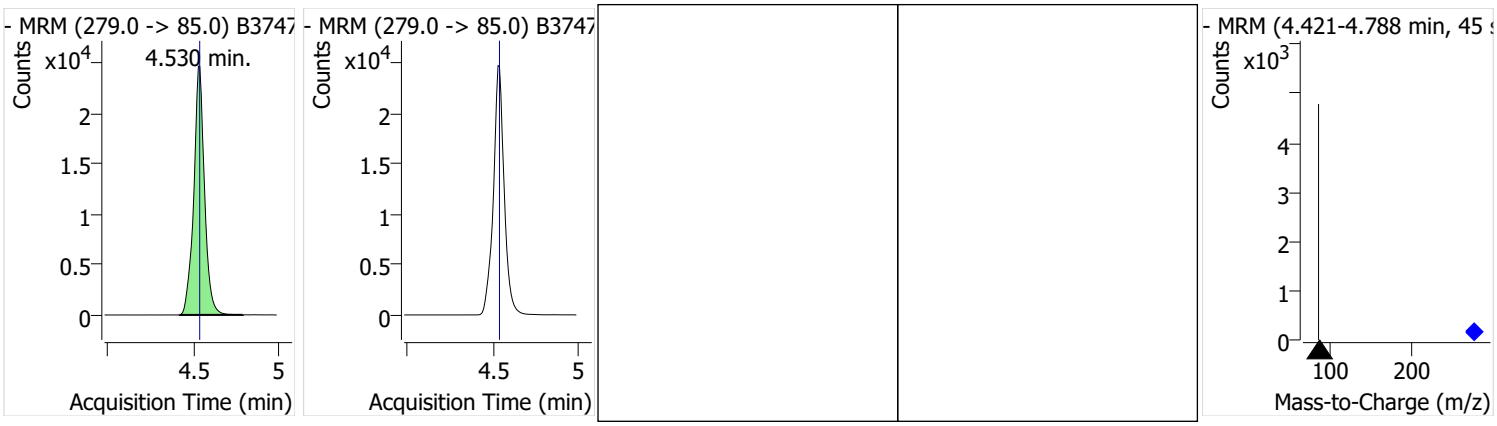

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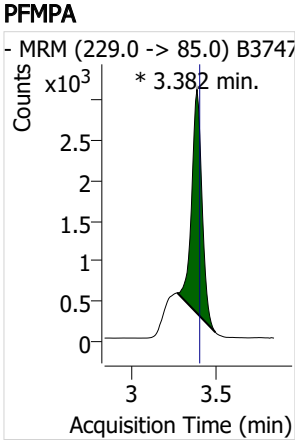

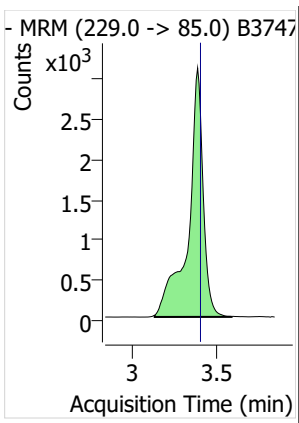

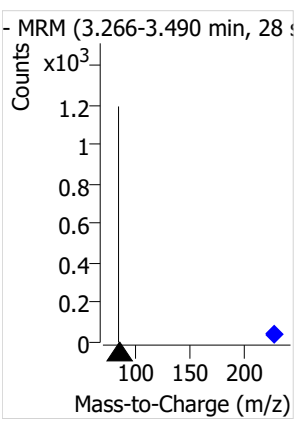

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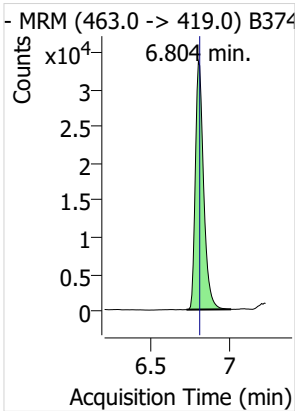

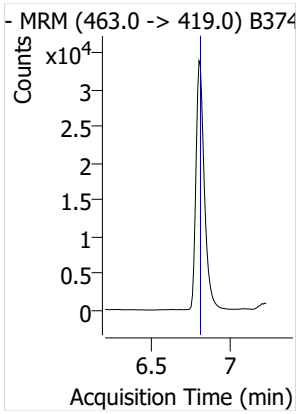

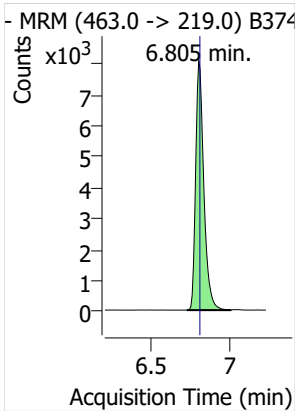

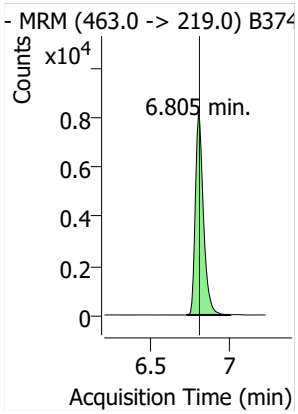

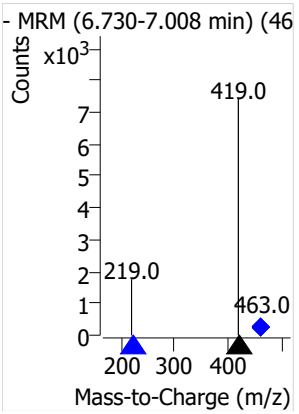

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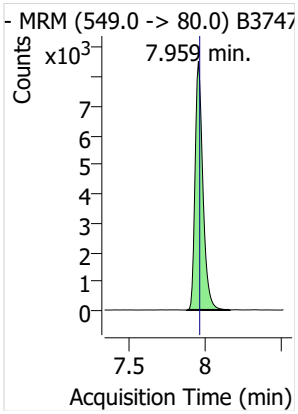

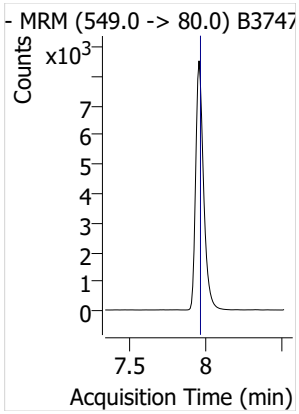

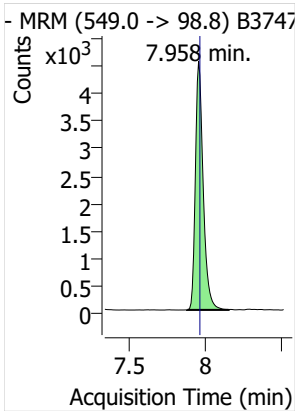

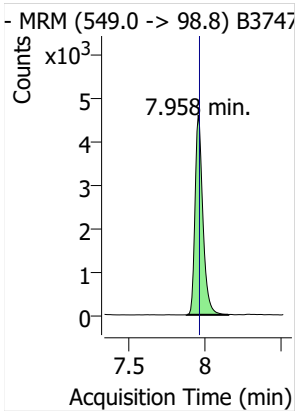

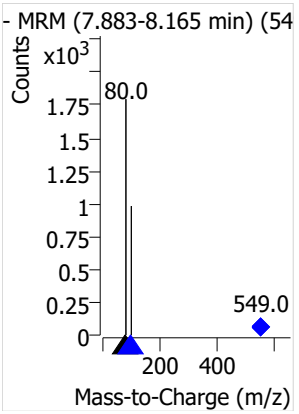

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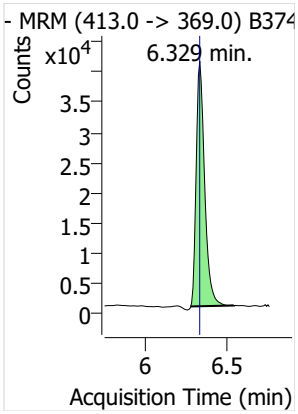
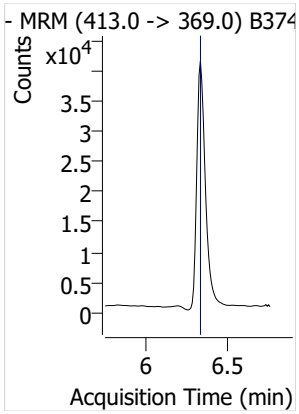
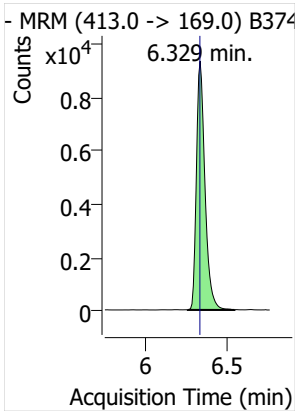
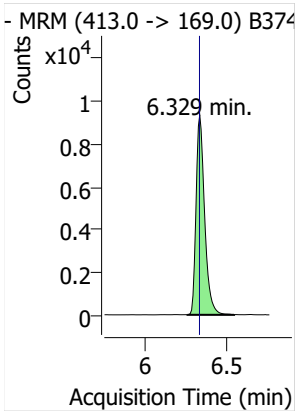
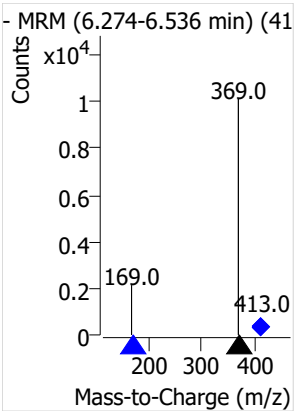


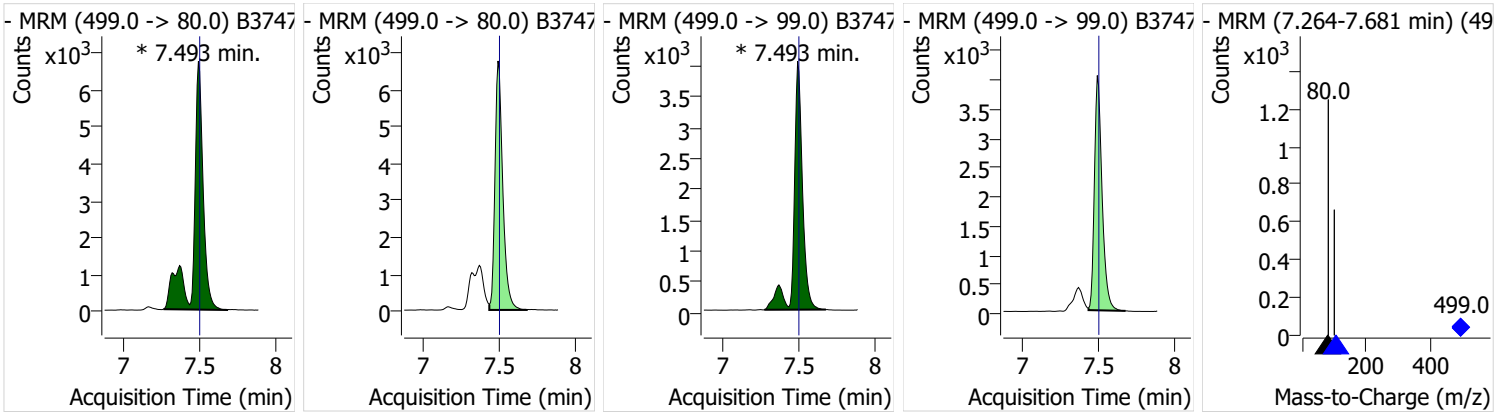




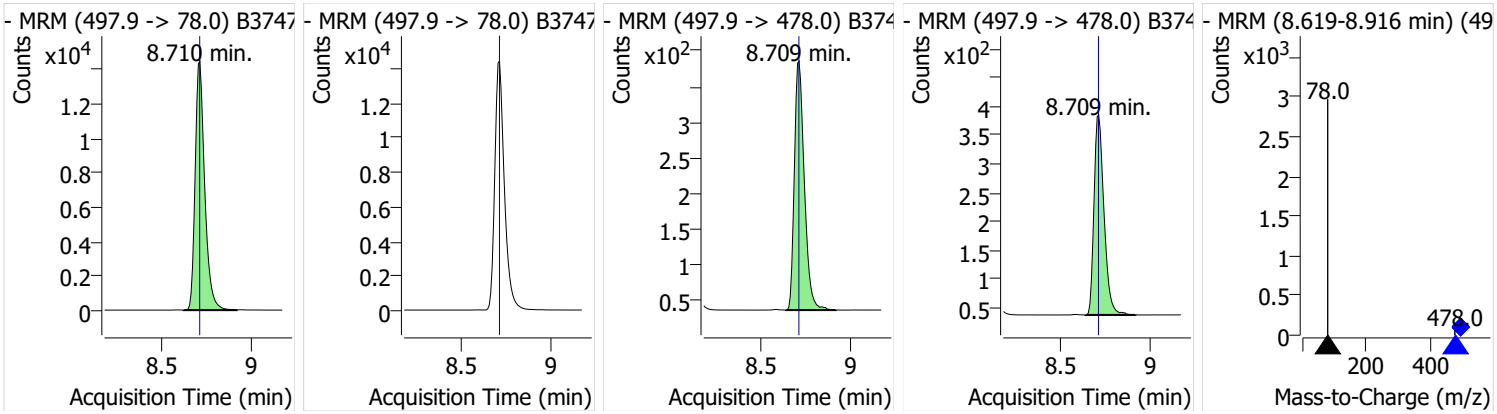




PFOS



PFOSA



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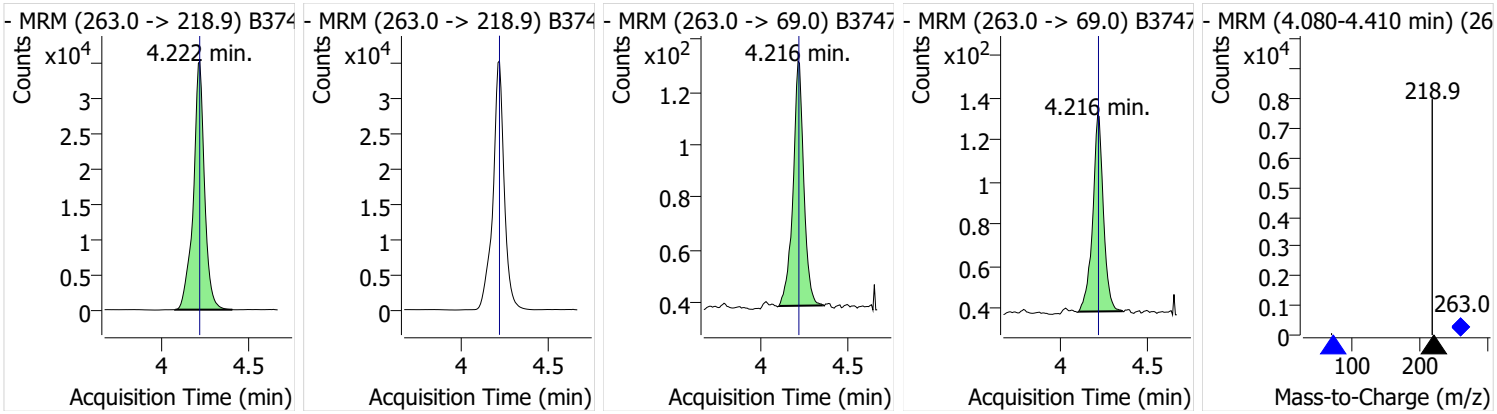

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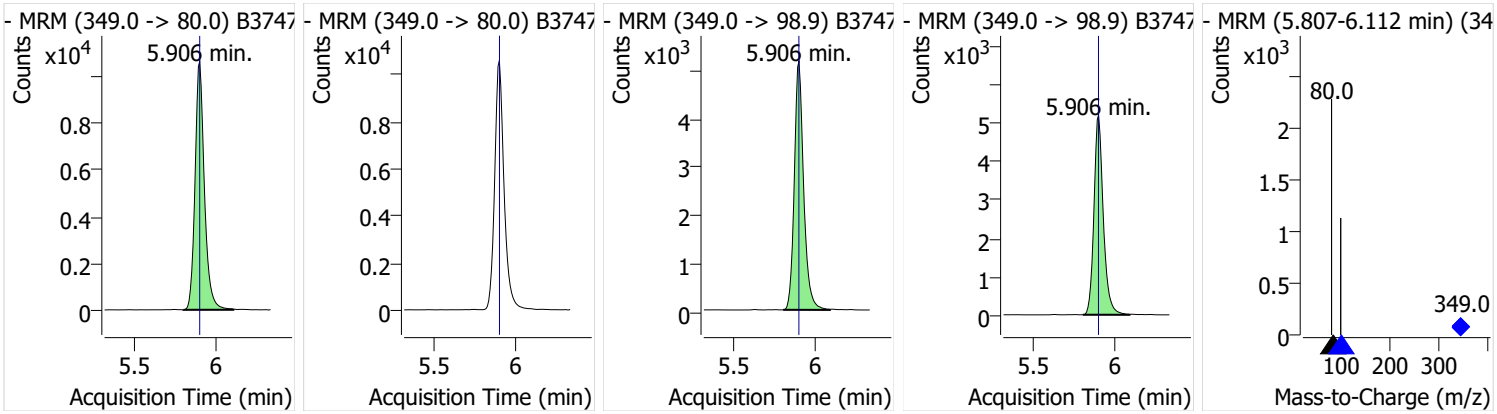

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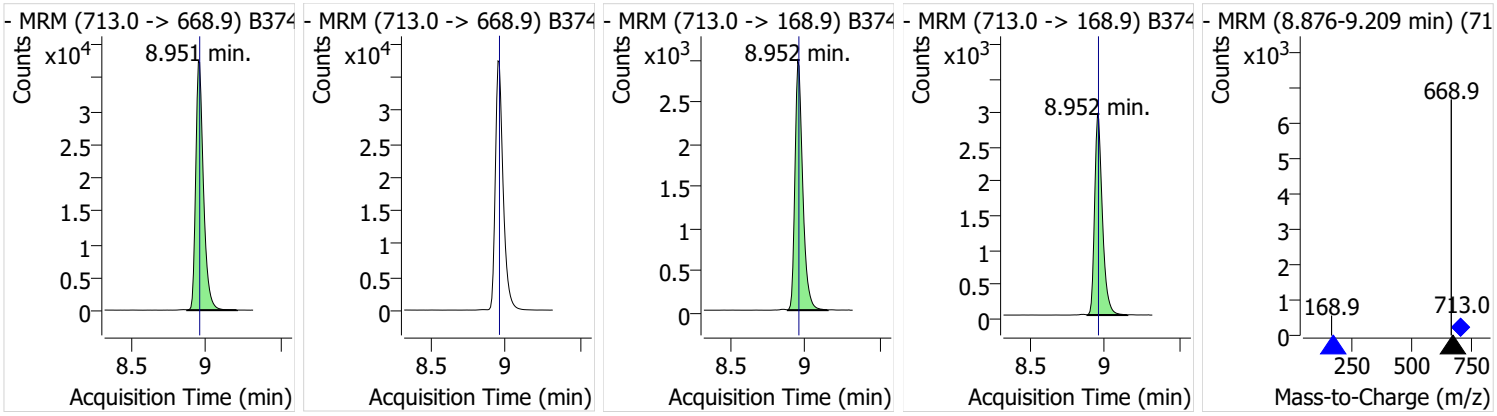
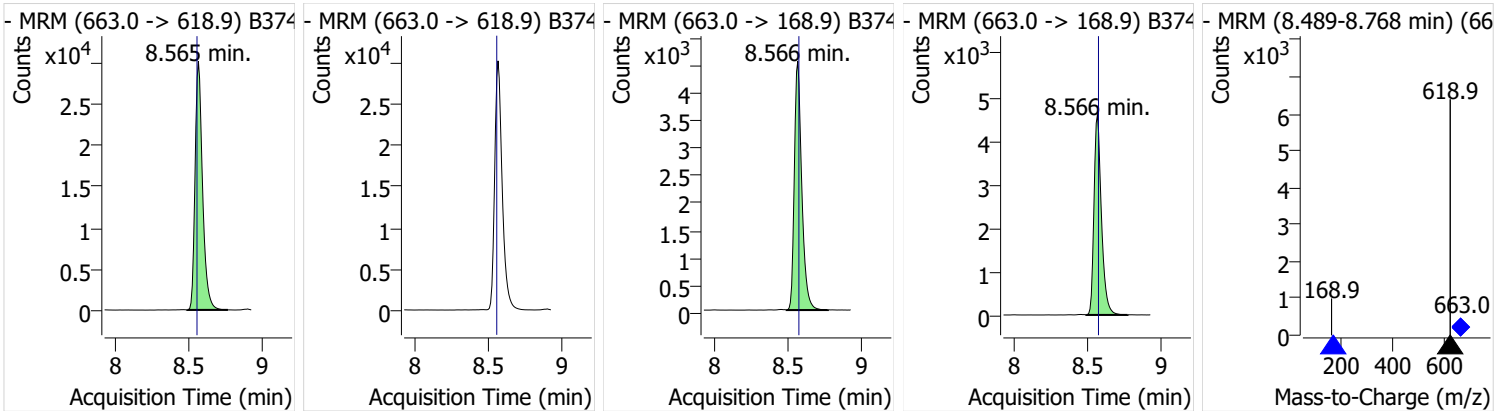
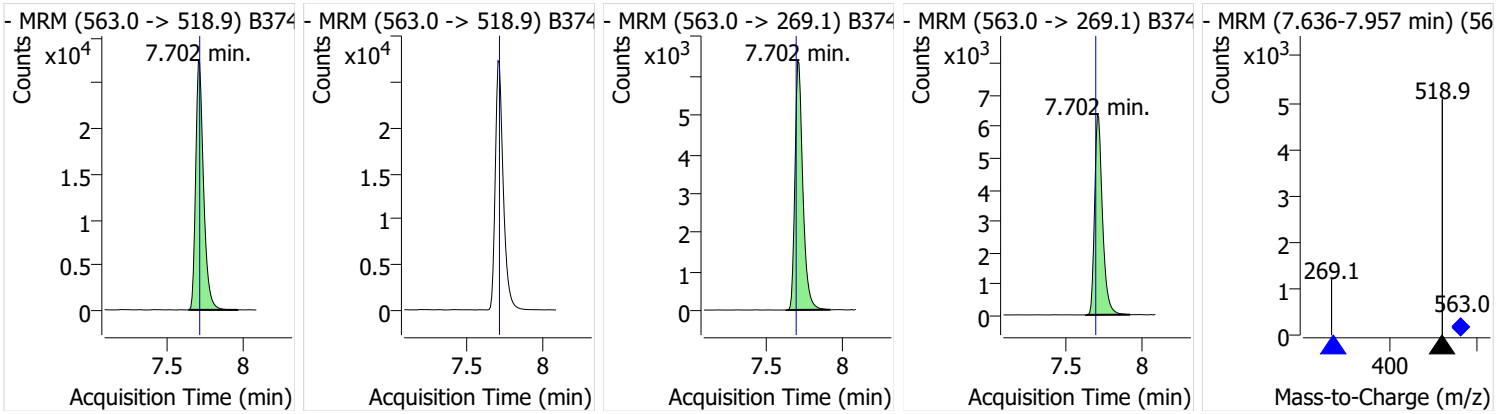


PFTrDA



PFUnA



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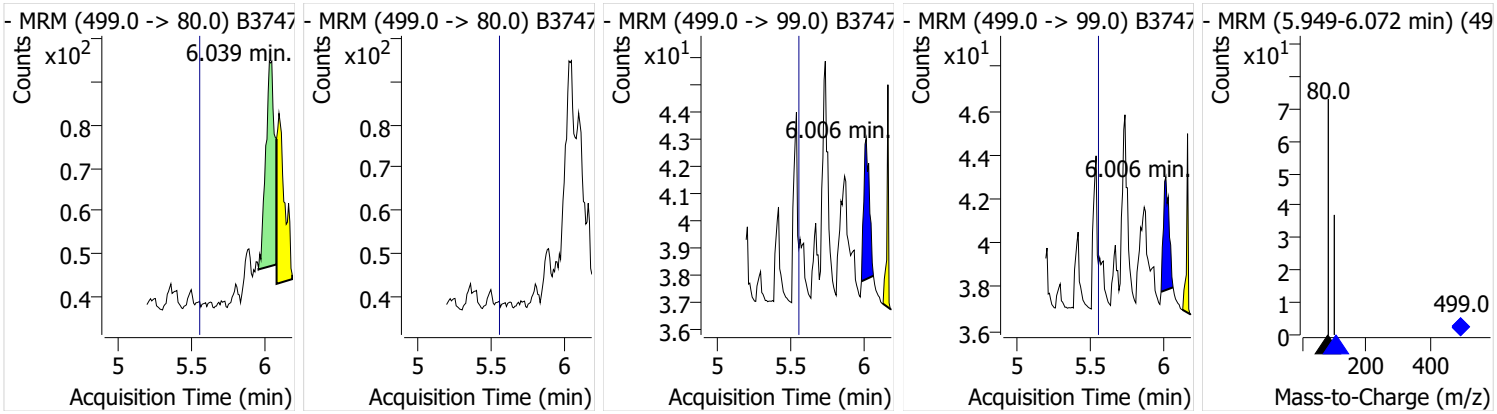

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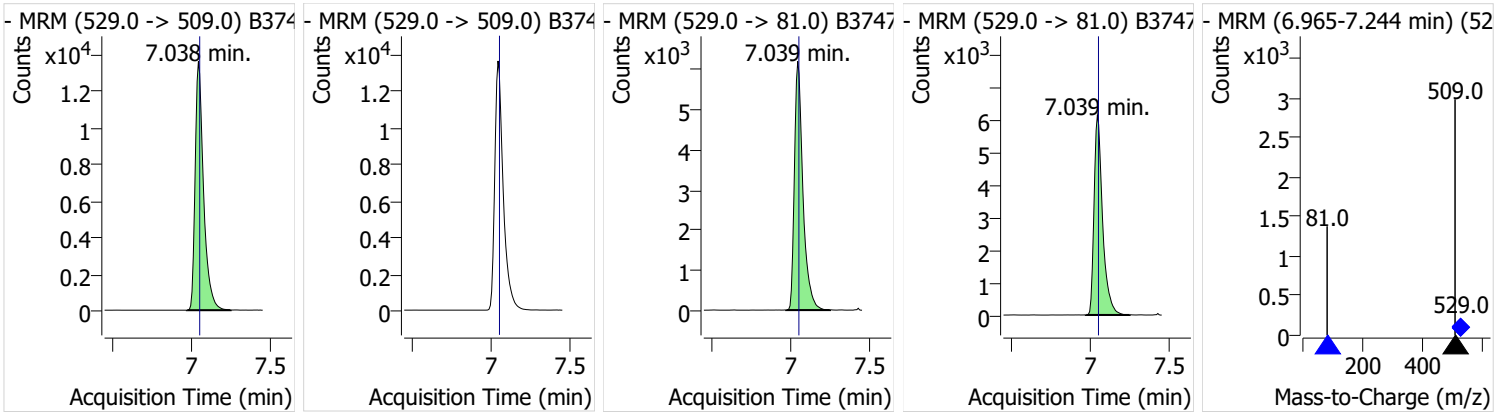

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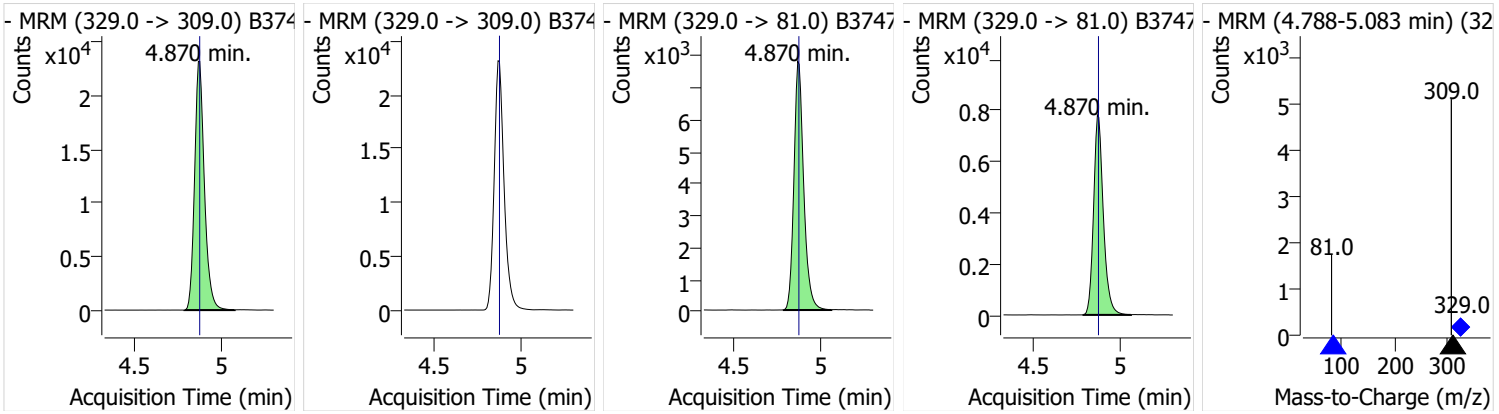
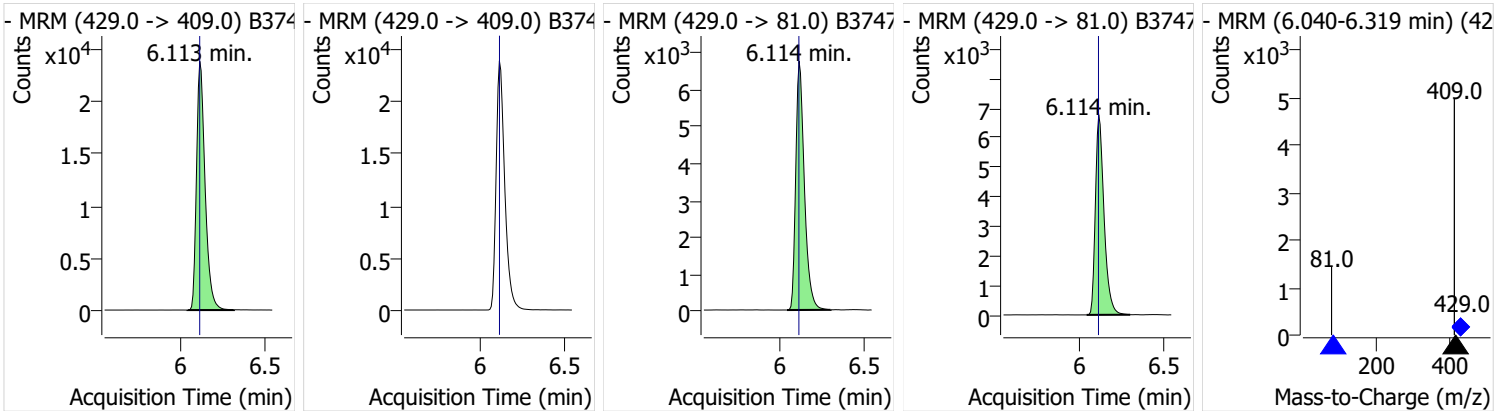


13C2-6:2FTS



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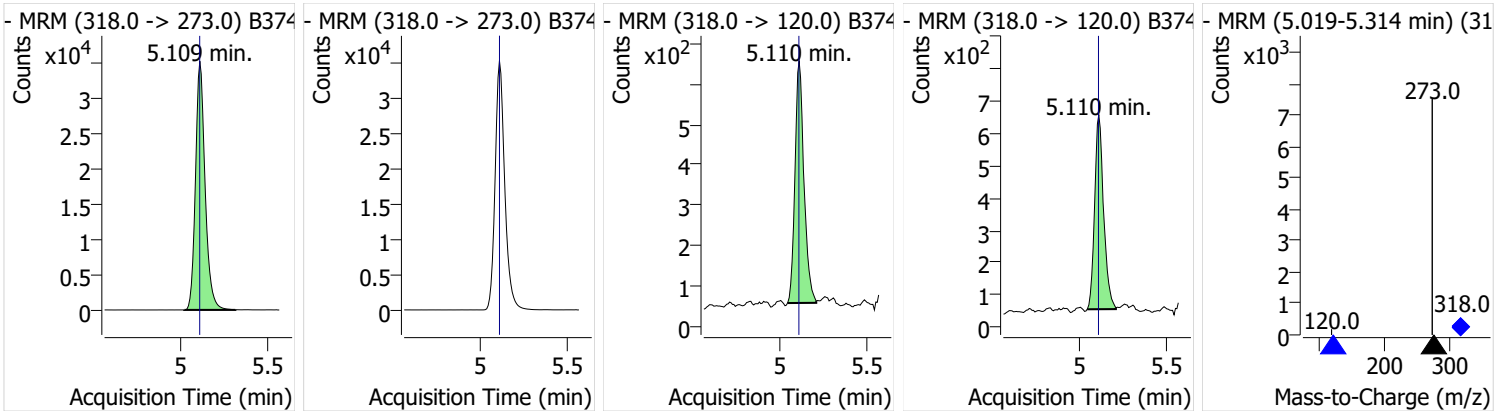

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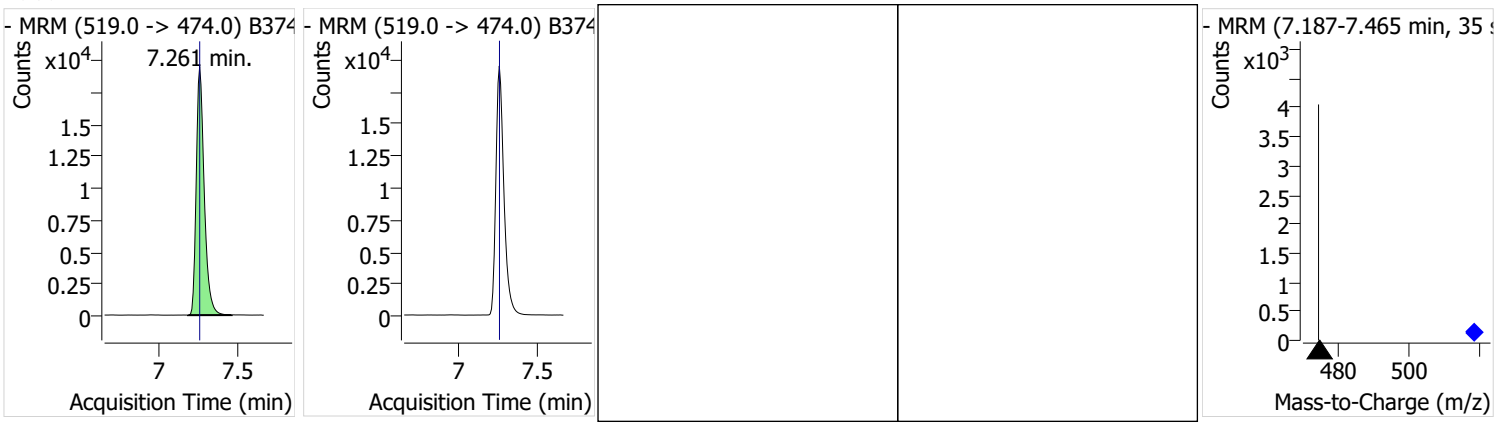
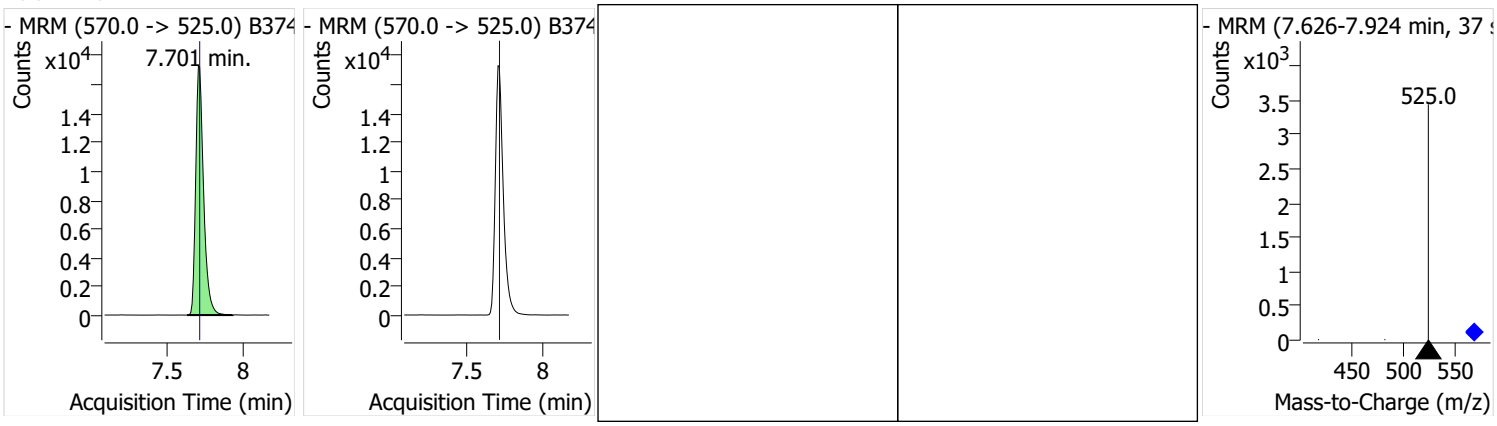


13C7-PFUnA



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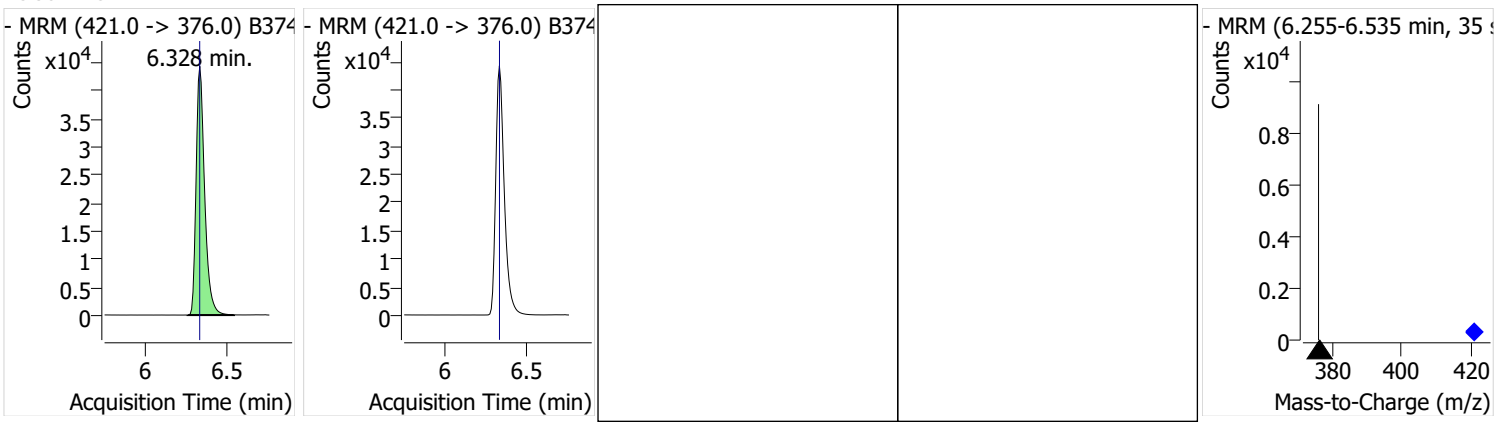

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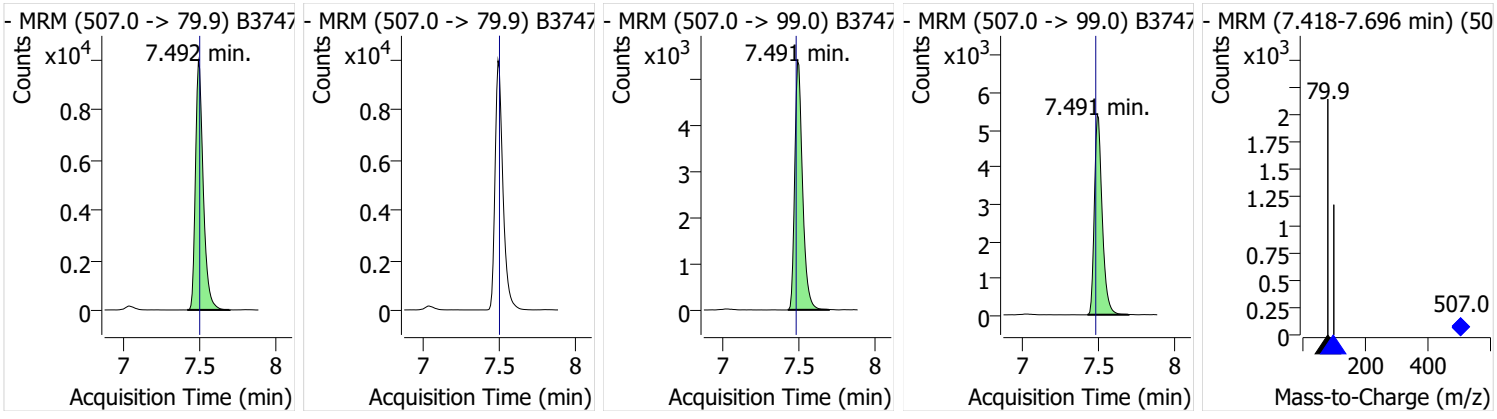

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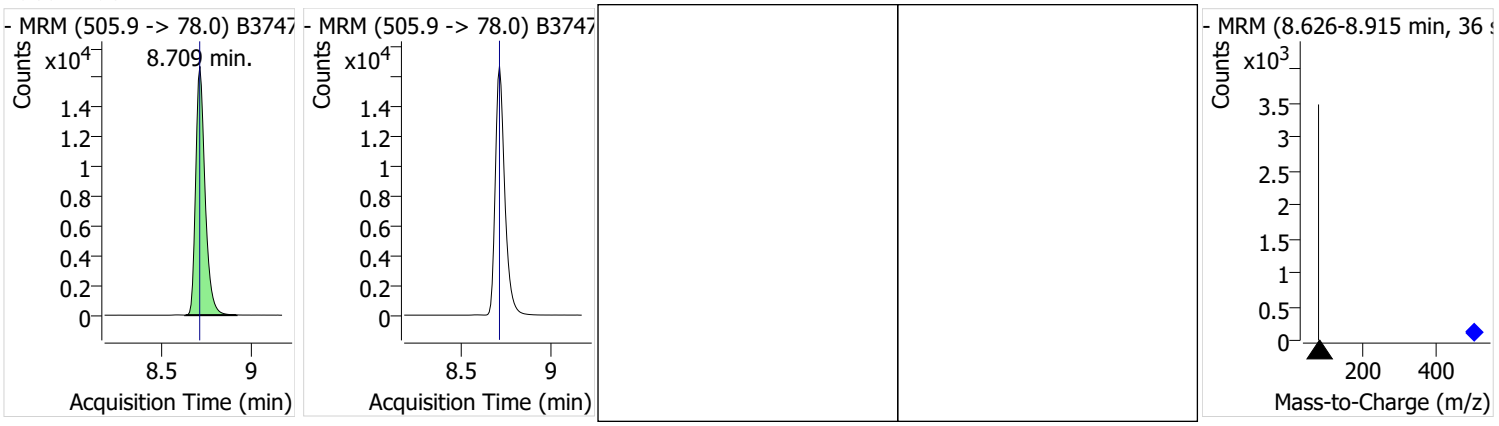

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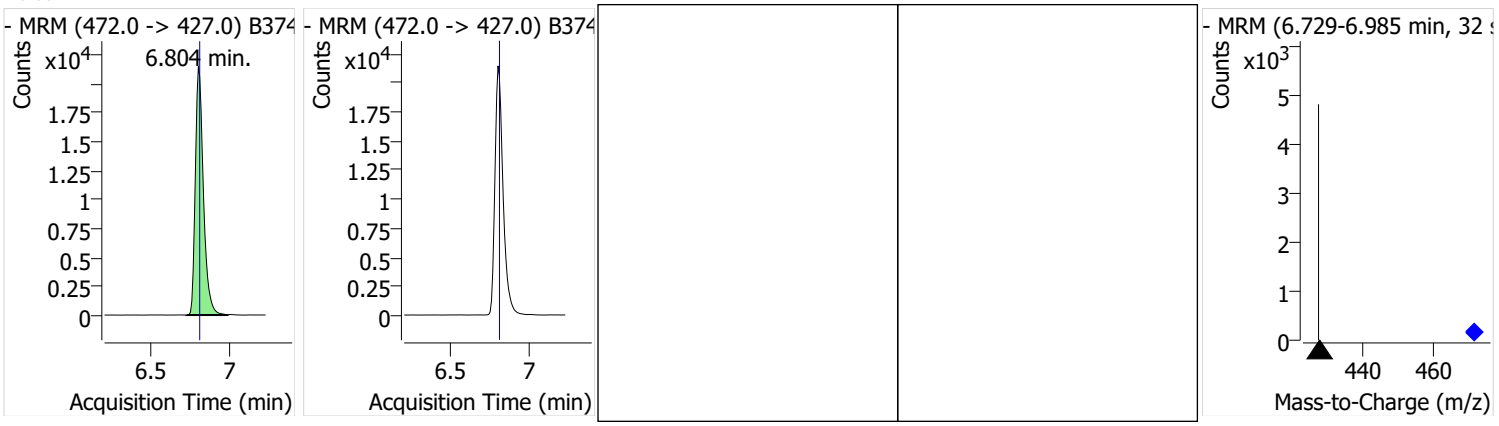

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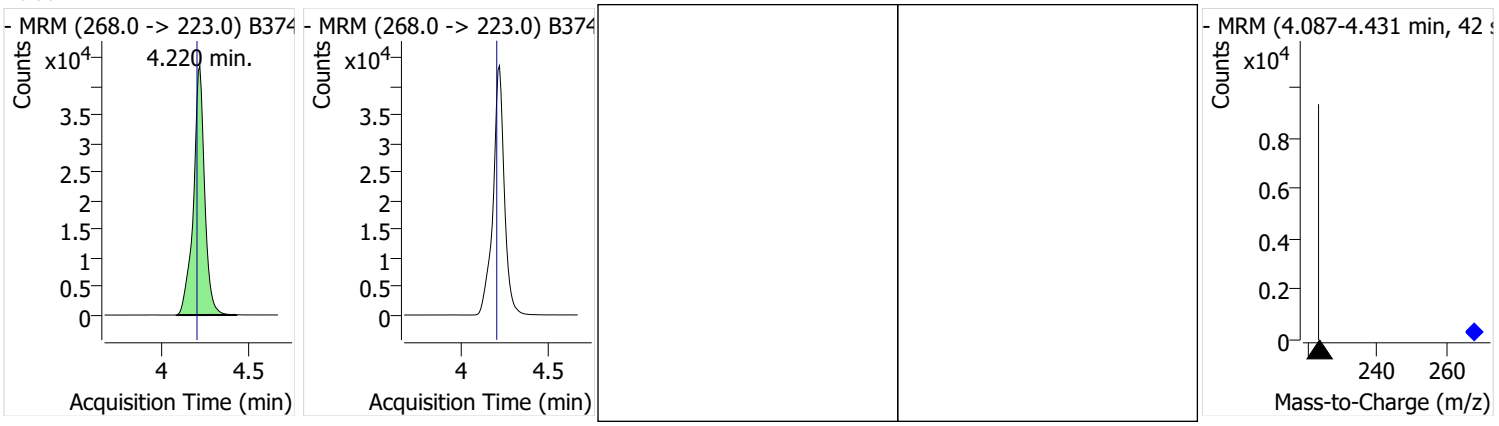

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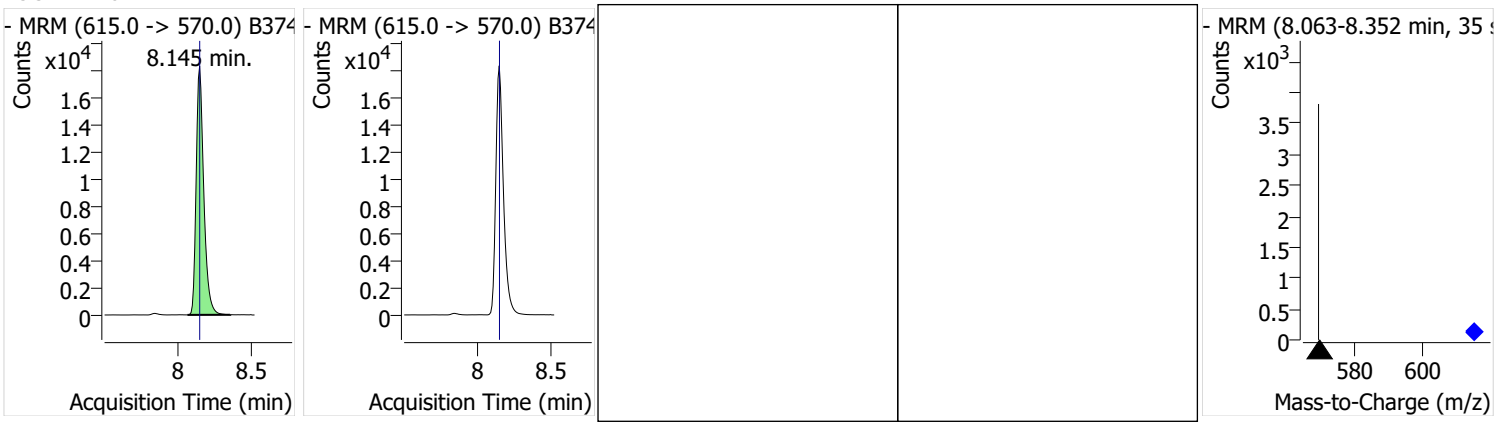

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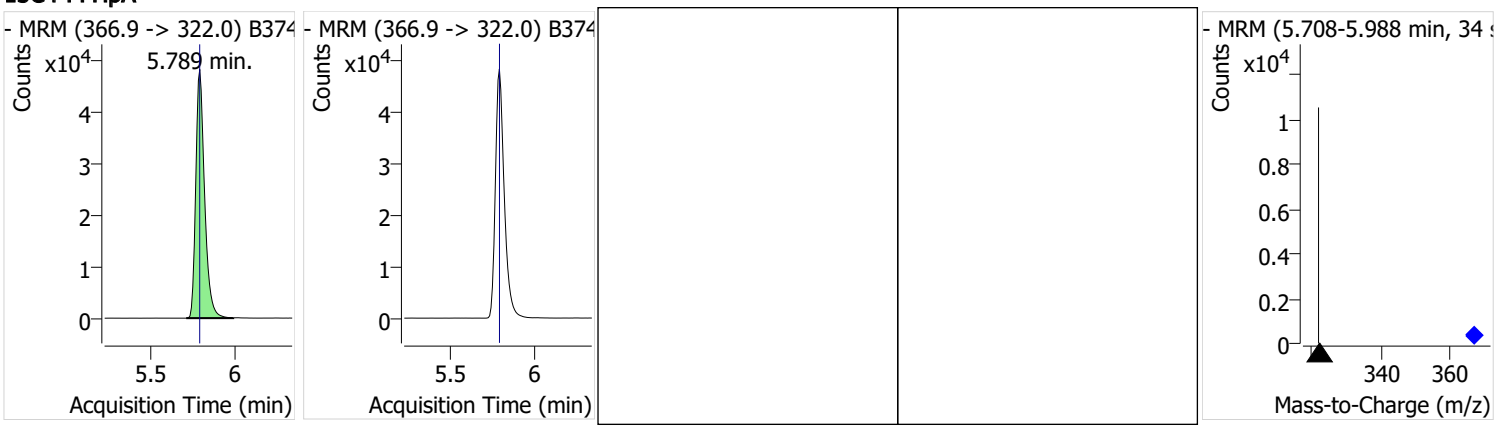

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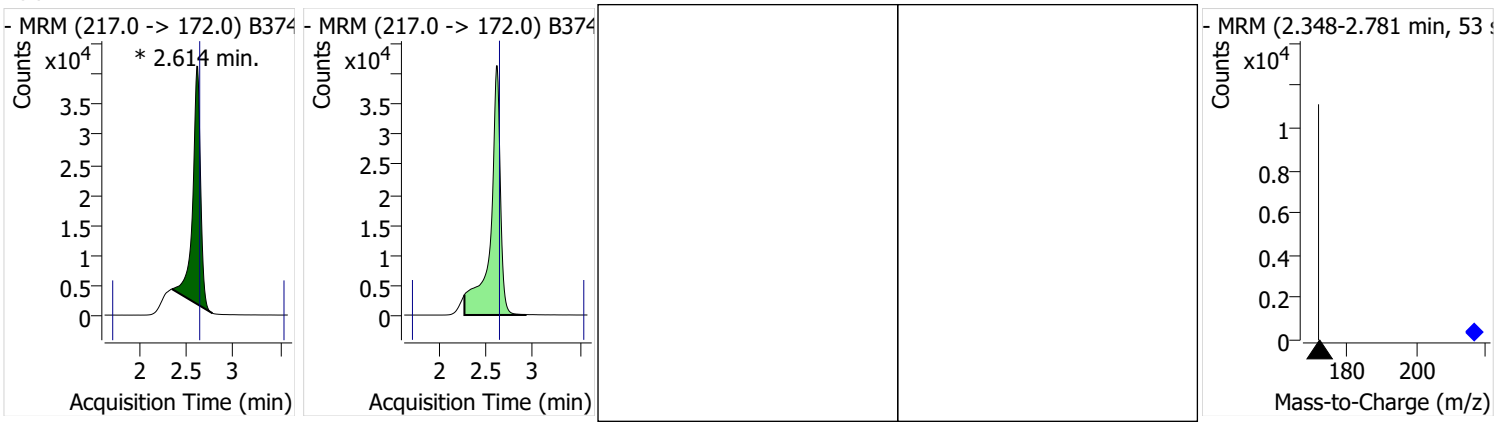

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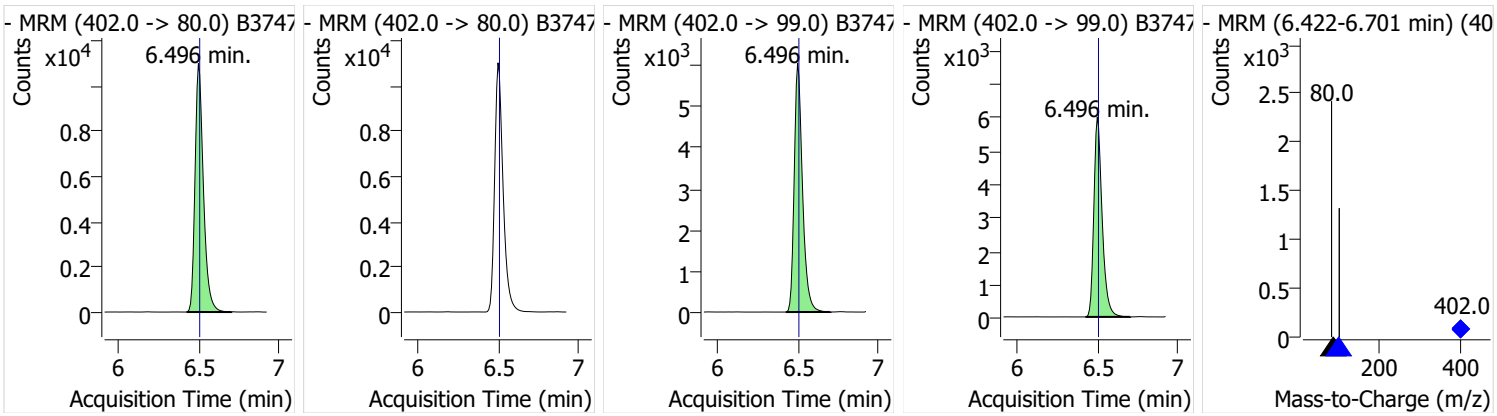

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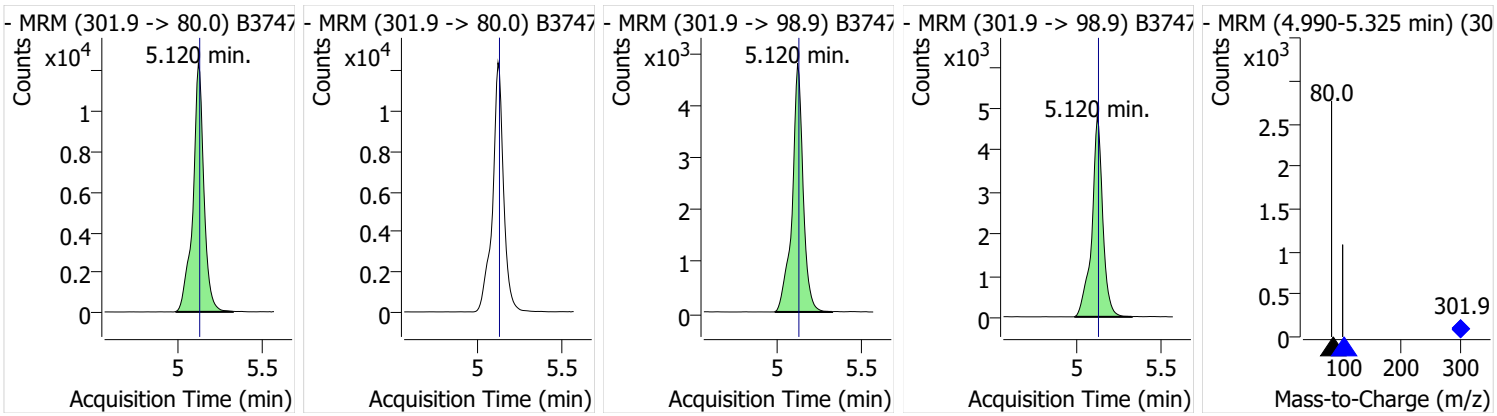

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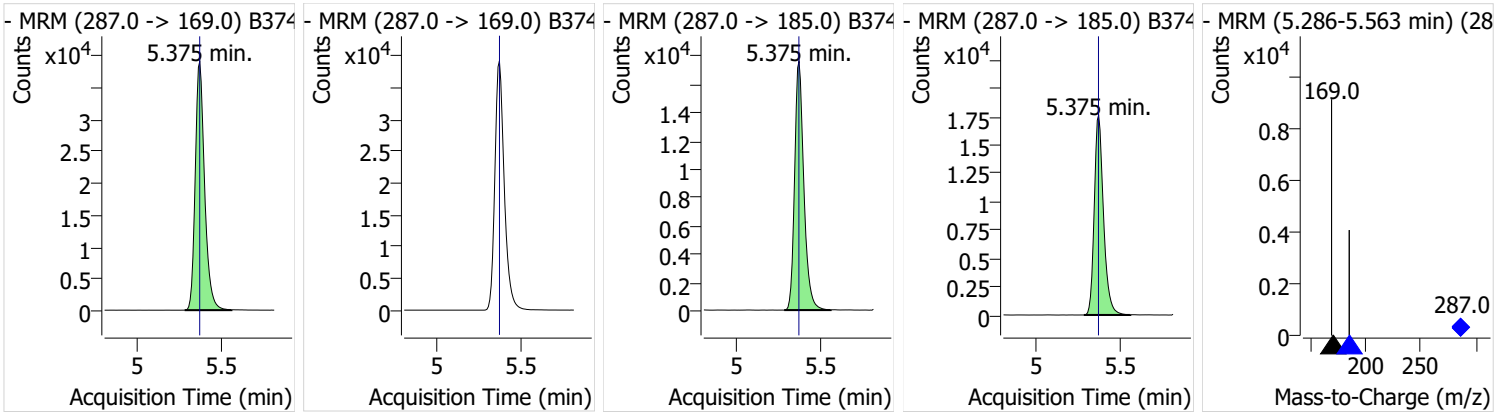

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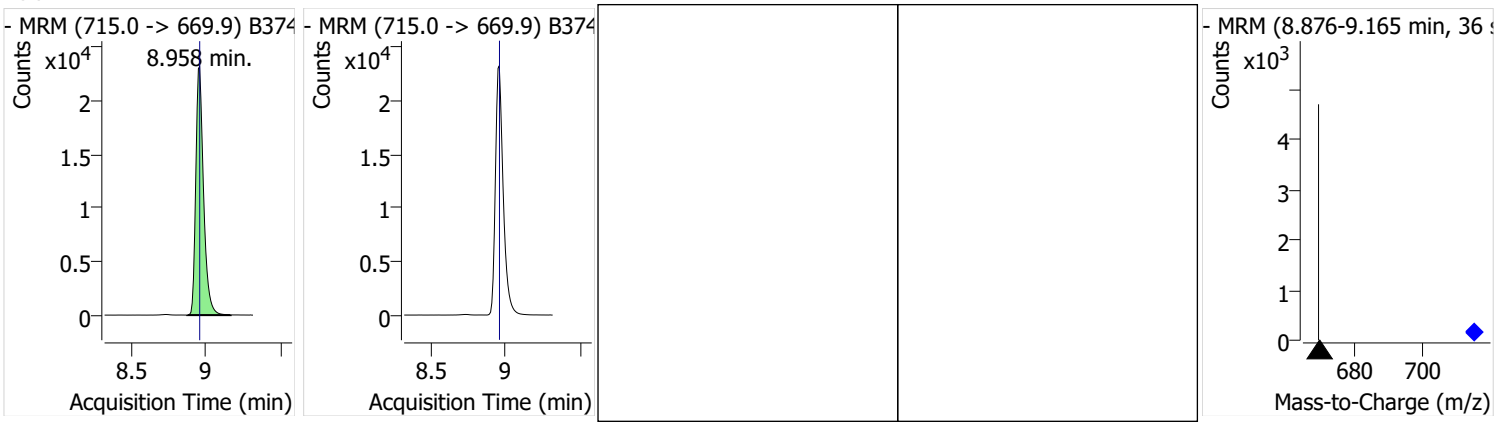

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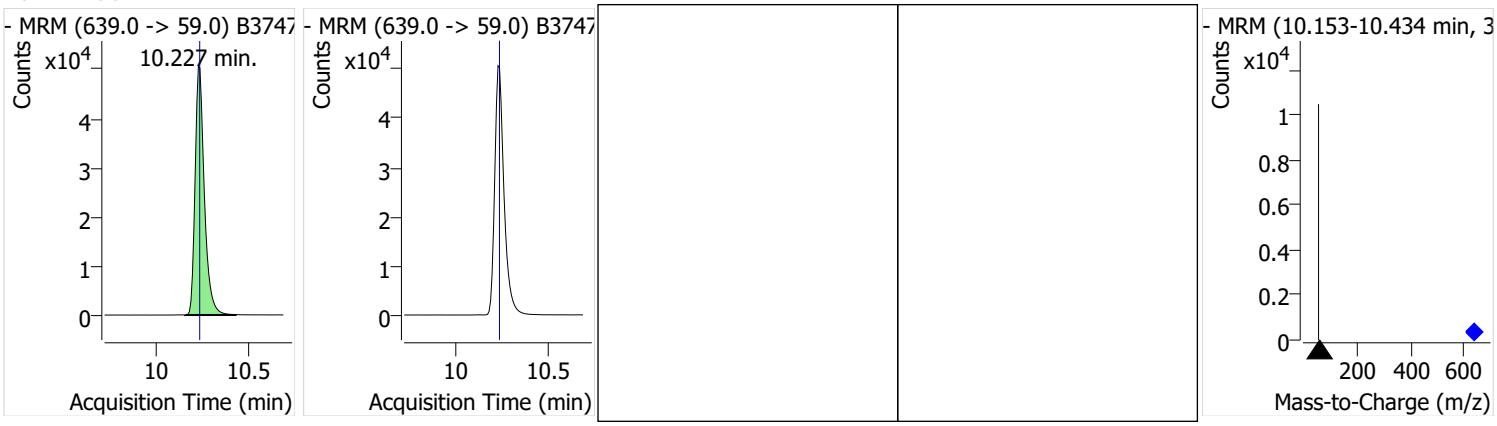
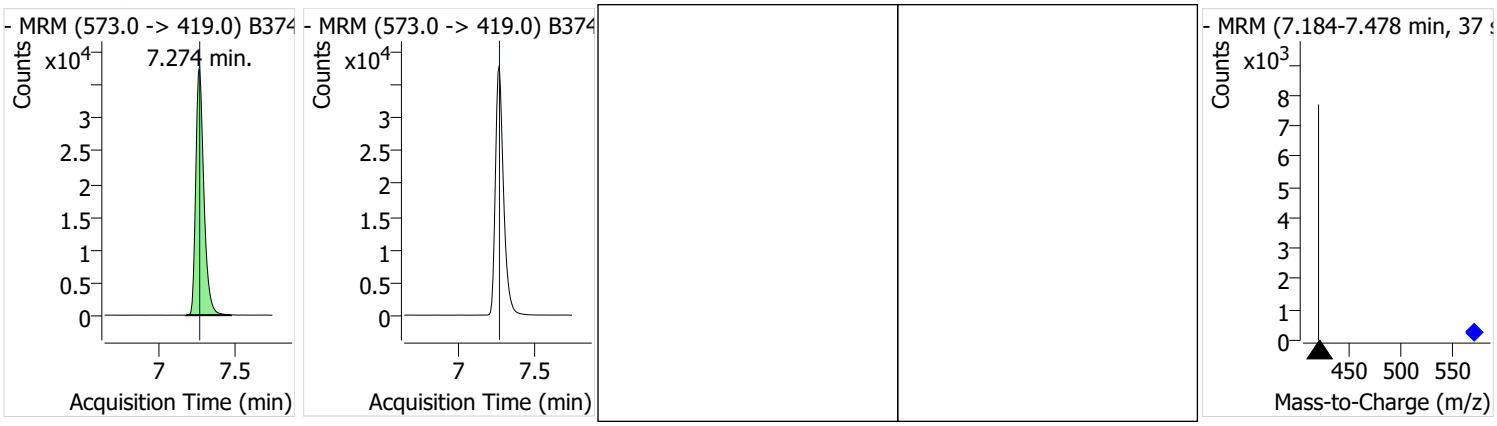


D3-NMeFOSA

D3-NMeFOSAA



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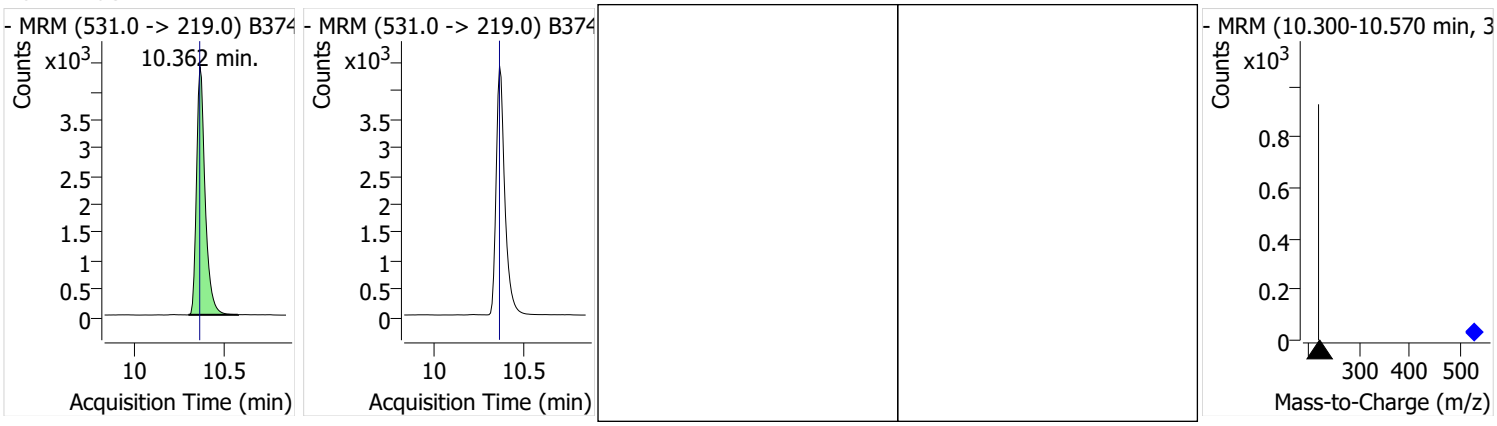

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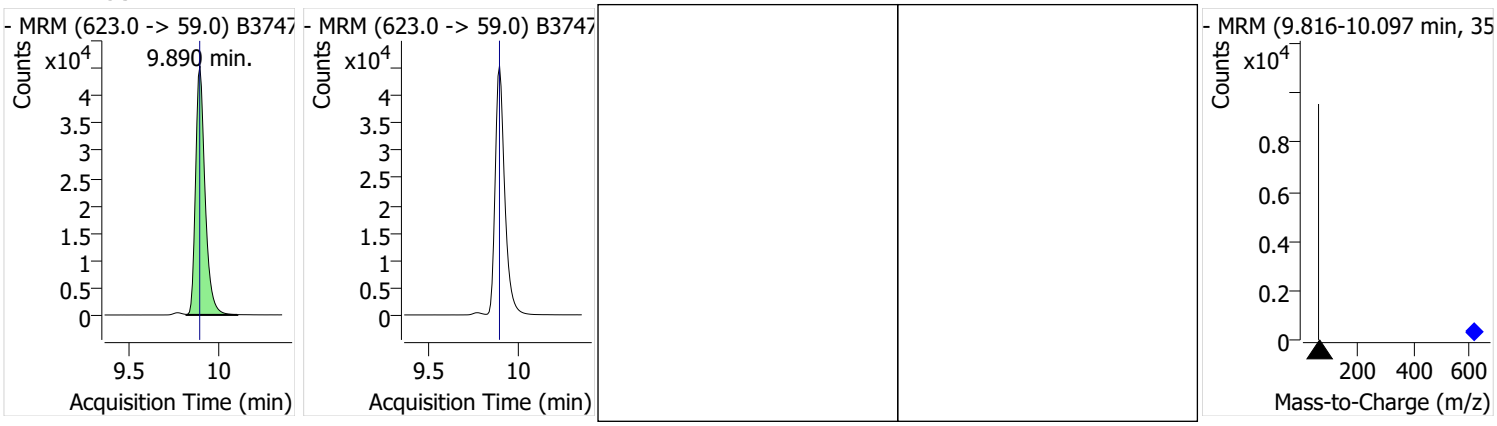
D7-NMeFOSE



1 - FORM I
ANALYSIS DATA SHEET

Instrument Blank

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	S104823-IBL1	File ID:	IBL1_1633_051724.d
Sampled:		Prepared:	05/17/24 00:00	Analyzed:	05/17/24 08:57
Solids:		Preparation:	B374213	Dilution:	
Batch:	S104823	Sequence:	S104823	Calibration:	2400518
Instrument:	QQQ6				
Column:	1				

CAS NO.	COMPOUND	CONC. (ng/mL)	MDL	RL	Q
375-22-4	Perfluorobutanoic acid (PFBA)		0.32	0.80	
2706-90-3	Perfluoropentanoic acid (PFPeA)		0.046	0.40	
307-24-4	Perfluorohexanoic acid (PFHxA)		0.033	0.20	
375-85-9	Perfluoroheptanoic acid (PFHpA)		0.015	0.20	
335-67-1	Perfluorooctanoic acid (PFOA)		0.031	0.20	
375-95-1	Perfluorononanoic acid (PFNA)		0.014	0.20	
335-76-2	Perfluorodecanoic acid (PFDA)		0.018	0.20	
2058-94-8	Perfluoroundecanoic acid (PFUnA)		0.023	0.20	
307-55-1	Perfluorododecanoic acid (PFDoA)		0.022	0.20	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)		0.022	0.20	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)		0.020	0.20	
375-73-5	Perfluorobutanesulfonic acid (PFBS)		0.021	0.20	
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)		0.026	0.20	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)		0.079	0.20	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)		0.021	0.20	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)		0.032	0.20	
68259-12-1	Perfluorononanesulfonic acid (PFNS)		0.022	0.20	
335-77-3	Perfluorodecanesulfonic acid (PFDS)		0.032	0.20	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)		0.031	0.20	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (		0.070	0.80	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid ((		0.50	0.80	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (		0.093	0.80	
754-91-6	Perfluorooctanesulfonamide (PFOSA)		0.031	0.20	
31506-32-8	N-methyl perfluoroocatnesulfonamide (NMeF		0.025	0.20	
4151-50-2	N-ethyl perfluorooctanesulfonamide (NEtFOS		0.023	0.20	
2355-31-9	N-MeFOSAA (NMeFOSAA)		0.036	0.20	
2991-50-6	N-EtFOSAA (NEtFOSAA)		0.030	0.20	
24448-09-7	N-methylperfluorooctanesulfonamidoethanol(		0.22	2.0	
1691-99-2	N-ethylperfluorooctanesulfonamidoethanol (N		0.22	2.0	
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPC		0.051	0.80	

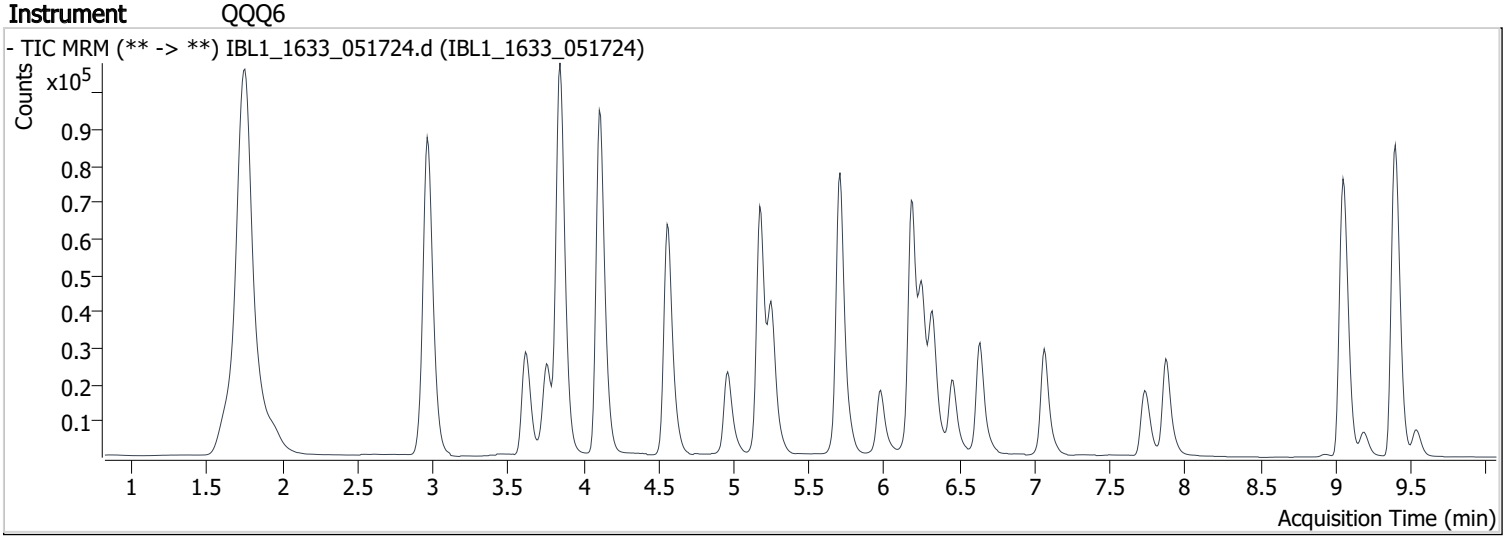
1 - FORM I
ANALYSIS DATA SHEET

Instrument Blank

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	S104823-IBL1	File ID:	IBL1_1633_051724.d
Sampled:		Prepared:	05/17/24 00:00	Analyzed:	05/17/24 08:57
Solids:		Preparation:	B374213	Dilution:	
Batch:	S104823	Sequence:	S104823	Calibration:	2400518
Instrument:	QQQ6				
Column:	1				

CAS NO.	COMPOUND	CONC. (ng/mL)	MDL	RL	Q
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADON/		0.060	0.80	
756426-58-1	9Cl-PF3ONS (F53B Minor)		0.058	0.80	
763051-92-9	11Cl-PF3OUdS (F53B Major)		0.089	0.80	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)(3:3		0.19	2.0	
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)		1.3	10	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)(7:3		1.5	10	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEE		0.032	0.40	
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)		0.033	0.40	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)		0.033	0.40	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)		0.060	0.40	

Batch Path	R:\Data\MAY2024\051724\QuantResults\1633_CCVS_CORRECTED.batch.bin		
Analysis Time	5/20/2024 3:06 PM	**Last Calib Update**	5/9/2024 9:16 AM
Acq. Time	5/17/2024 8:57 AM	**Data File**	IBL1_1633_051724.d
Sample Type	Sample	**Sample Name**	IBL1_1633_051724
Dilution	1	**Acq. Method**	1633_ACQUISITION_01.m
Sample Comment	E#24E0356	**Processing method**	1633_050824.m
Instrument	QQQ6		



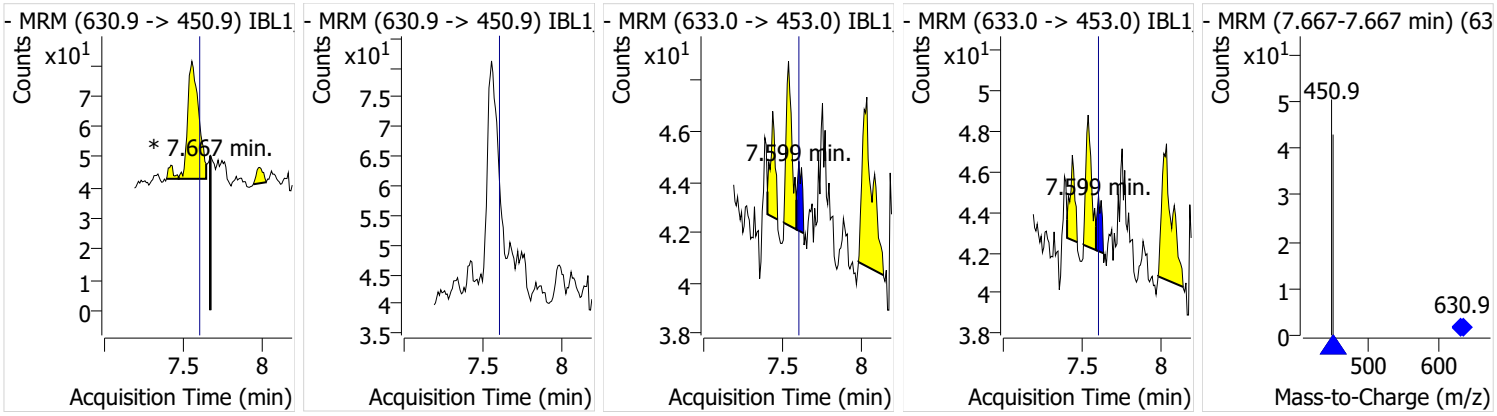
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
11Cl-PF3OUdS	7.667	0			13C3-HFPODA - ISTD	4.111	265857	-	ng/ml	✔	1	ALB 5/20/24
633.0 -> 453.0				*								
3:3FTCA	2.488	0			13C5-PFPeA - ISTD	2.961	409274	-	ng/ml	✔	1	ALB 5/20/24
241.0 -> 117.0				*								
4:2FTS	3.614	0			13C2-4:2FTS - ISTD	3.614	33855	-	ng/ml	✔	1	ALB 5/20/24
327.0 -> 80.9				*								
5:3FTCA	4.335	0			13C5-PFHxA - ISTD	3.844	225187	-	ng/ml	✔	1	ALB 5/20/24
341.0 -> 217.0				*								
6:2FTS	4.966	0			13C2-6:2FTS - ISTD	4.958	20778	-	ng/ml	✔	1	ALB 5/20/24
427.0 -> 80.9				*								
7:3FTCA	5.683	0			13C5-PFHxA - ISTD	3.844	225187	-	ng/ml	✔	1	ALB 5/20/24
441.0 -> 317.0				*								
8:2FTS	5.975	0			13C2-8:2FTS - ISTD	5.975	18843	-	ng/ml	✔	1	ALB 5/20/24
527.0 -> 81.0				*								
9Cl-PF3ONS	6.680	0			13C3-HFPODA - ISTD	4.111	265857	-	ng/ml	✔	1	ALB 5/20/24
533.0 -> 353.0				*								
ADONA	4.805	0			13C3-HFPODA - ISTD	4.111	265857	-	ng/ml	✔	1	ALB 5/20/24
377.0 -> 85.1				*								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
HFPO-DA	4.104	0			13C3-HFPODA - ISTD	4.111	265857	-	ng/ml	✔	1	ALB 5/20/24
285.0 -> 184.9				*								
NEtFOSA	9.548	0			D5-NEtFOSA - ISTD	9.538	27274	-	ng/ml	✔	1	ALB 5/20/24
526.0 -> 219.0				*								
NEtFOSAA	6.455	0			D5-NEtFOSAA - ISTD	6.455	80322	-	ng/ml	✔	1	ALB 5/20/24
584.0 -> 526.0				*								
NEtFOSE	9.420	0			D9-NEtFOSE - ISTD	9.394	348797	-	ng/ml	✔	1	ALB 5/20/24
NFDHA	3.775	0			13C5-PFHxA - ISTD	3.844	225187	-	ng/ml	✔	1	ALB 5/20/24
295.0 -> 85.0				*								
NMeFOSA	9.186	0			D3-NMeFOSA - ISTD	9.193	25503	-	ng/ml	✔	1	ALB 5/20/24
512.0 -> 219.0				*								
NMeFOSAA	6.253	0			D3-NMeFOSAA - ISTD	6.252	150273	-	ng/ml	✔	1	ALB 5/20/24
570.0 -> 418.9				*								
NMeFOSE	9.066	0			D7-NMeFOSE - ISTD	9.049	312994	-	ng/ml	✔	1	ALB 5/20/24
PFBA	1.746	0			13C4-PFBA - ISTD	1.749	651542	-	ng/ml	✔	1	ALB 5/20/24
PFBS	3.758	0			13C3-PFBS - ISTD	3.757	79510	-	ng/ml	✔	1	ALB 5/20/24
298.9 -> 98.8				*								
PFDA	6.189	0			13C6-PFDA - ISTD	6.181	143012	-	ng/ml	✔	1	ALB 5/20/24
513.0 -> 219.0				*								
PFDoA	7.071	0			13C2-PFDoA - ISTD	7.061	120272	-	ng/ml	✔	1	ALB 5/20/24
613.0 -> 319.0				*								
PFDoS	8.036	0			13C8-PFOS - ISTD	6.322	43751	-	ng/ml	✔	1	ALB 5/20/24
698.9 -> 99.0				*								
PFDS	7.239	0			13C8-PFOS - ISTD	6.322	43751	-	ng/ml	✔	1	ALB 5/20/24
599.0 -> 98.8				*								
PFEESA	4.328	0			13C5-PFHxA - ISTD	3.844	225187	-	ng/ml	✔	1	ALB 5/20/24
315.0 -> 83.0				*								
PFHpA	4.607	0			13C4-PFHpA - ISTD	4.558	262106	-	ng/ml	✔	1	ALB 5/20/24
362.9 -> 169.0				*								
PFHpS	5.889	0			13C8-PFOS - ISTD	6.322	43751	-	ng/ml	✔	1	ALB 5/20/24
449.0 -> 98.8				*								

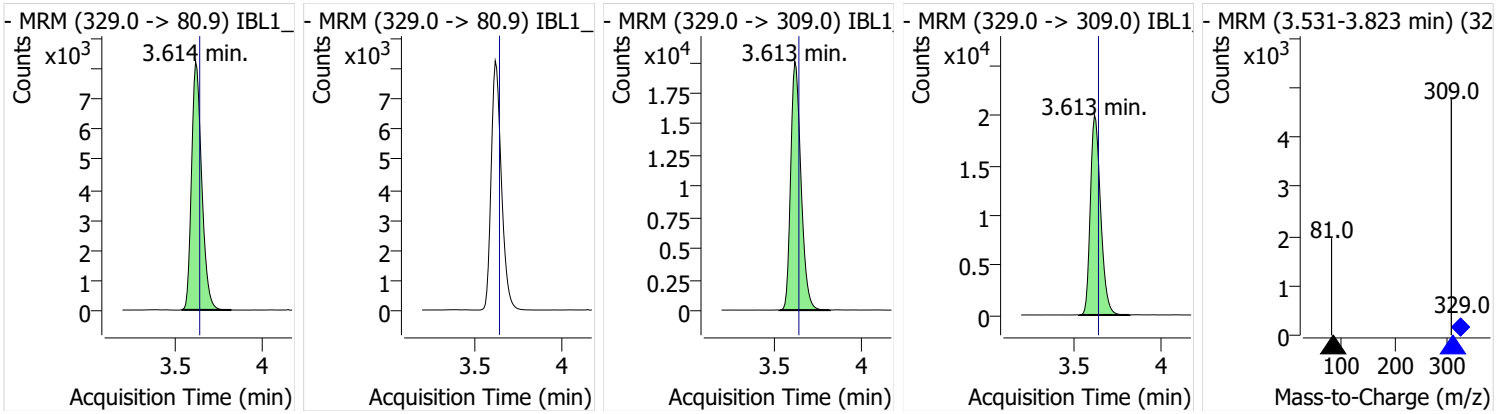
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFHxA	3.855	0			13C5-PFHxA - ISTD	3.844	225187	-	ng/ml	✔	1	ALB 5/20/24
313.0 -> 118.9				*								
PFHxS	5.251	0			13C3-PFHxS - ISTD	5.250	55867	-	ng/ml	✔	1	ALB 5/20/24
398.9 -> 99.0				*								
PFMBA	3.263	0			13C5-PFPeA - ISTD	2.961	409274	-	ng/ml	✔	1	ALB 5/20/24
PFMPA	2.234	0			13C5-PFPeA - ISTD	2.961	409274	-	ng/ml	✔	1	ALB 5/20/24
PFNA	5.706	0			13C9-PFNA - ISTD	5.705	148133	-	ng/ml	✔	1	ALB 5/20/24
463.0 -> 219.0				*								
PFNS	6.778	0			13C8-PFOS - ISTD	6.322	43751	-	ng/ml	✔	1	ALB 5/20/24
549.0 -> 98.8				*								
PFOA	5.173	0			13C8-PFOA - ISTD	5.173	243228	-	ng/ml	✔		
413.0 -> 169.0				*								
PFOS	6.331	0			13C8-PFOS - ISTD	6.322	43751	-	ng/ml	✔	1	ALB 5/20/24
499.0 -> 99.0				*								
PFOSA	7.744	0			13C8-PFOSA - ISTD	7.735	77143	-	ng/ml	✔	1	ALB 5/20/24
497.9 -> 478.0				*								
PFPeA	2.971	0			13C5-PFPeA - ISTD	2.961	409274	-	ng/ml	✔	1	ALB 5/20/24
263.0 -> 69.0				*								
PFPeS	4.567	0			13C3-PFHxS - ISTD	5.250	55867	-	ng/ml	✔	1	ALB 5/20/24
349.0 -> 98.9				*								
PFTeDA	7.869	0			13C2-PFTeDA - ISTD	7.869	109964	-	ng/ml	✔	1	ALB 5/20/24
713.0 -> 168.9				*								
PFTrDA	7.473	0			13C2-PFDoA - ISTD	7.061	120272	-	ng/ml	✔	1	ALB 5/20/24
663.0 -> 168.9				*								
PFUnA	6.637	0			13C7-PFUnA - ISTD	6.636	123175	-	ng/ml	✔	1	ALB 5/20/24
563.0 -> 269.1				*								
TDCA	6.208	69	14.81					-	ng/ml			
499.0 -> 99.0			6.23	17.0								
13C2-8:2FTS	5.975	18843	9878.23		18O2-PFHxS	5.249	53605	5.3477	ng/ml			
529.0 -> 509.0			315471.75	279.0								
13C2-4:2FTS	3.614	33855	5694.12		18O2-PFHxS	5.249	53605	5.2776	ng/ml			
329.0 -> 309.0			19657.75	247.3								
13C2-6:2FTS	4.958	20778	6773.16		18O2-PFHxS	5.249	53605	4.7934	ng/ml			

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
429.0 -> 409.0			12839.92	348.3								
13C5-PFHxA	3.844	225187	38505.36		13C2-PFHxA	3.845	206009	2.6526	ng/ml			
318.0 -> 120.0			941.97	2.0								
13C6-PFDA	6.181	143012	10662.84		13C2-PFDA	6.181	137027	1.3227	ng/ml			
13C7-PFUnA	6.636	123175	9854.58		13C2-PFDA	6.181	137027	1.4072	ng/ml			
13C8-PFOA	5.173	243228	17128.52		13C4-PFOA	5.173	34574	2.5661	ng/ml			
13C8-PFOS	6.322	43751	11426.04		13C4-PFOS	6.322	47048	2.5867	ng/ml			
507.0 -> 99.0			7236.37	51.9								
13C8-PFOSA	7.735	77143	147987.01		13C4-PFOS	6.322	47048	2.5932	ng/ml			
13C9-PFNA	5.705	148133	24512.81		13C5-PFNA	5.705	169192	1.2839	ng/ml			
13C5-PFPeA	2.961	409274	13509.78		13C2-PFHxA	3.845	206009	5.3795	ng/ml			
13C2-PFDoA	7.061	120272	10168.64		13C2-PFDA	6.181	137027	1.3313	ng/ml			
13C4-PFHpA	4.558	262106	22804.76		13C2-PFHxA	3.845	206009	2.7602	ng/ml			
13C4-PFBA	1.749	651542	95533.04		13C3-PFBA	1.743	290232	10.3397	ng/ml			
13C3-PFHxS	5.250	55867	29551.38		18O2-PFHxS	5.249	53605	2.5520	ng/ml			
402.0 -> 99.0			9472.10	51.9								
13C3-PFBS	3.757	79510	22174.38		18O2-PFHxS	5.249	53605	2.7444	ng/ml			
301.9 -> 98.9			9830.15	35.8								
13C3-HFPODA	4.111	265857	18561.33		13C2-PFHxA	3.845	206009	11.1961	ng/ml			
287.0 -> 185.0			21050.95	43.5								
13C2-PFTeDA	7.869	109964	10515.92		13C2-PFDA	6.181	137027	1.4137	ng/ml			
D9-NEtFOSE	9.394	348797	78191.80		13C4-PFOS	6.322	47048	28.1952	ng/ml			
D3-NMeFOSA	9.193	25503	10374.79		13C4-PFOS	6.322	47048	2.6728	ng/ml			
D3-NMeFOSAA	6.252	150273	14791.61		13C4-PFOS	6.322	47048	4.9305	ng/ml			
D5-NEtFOSA	9.538	27274	10770.35		13C4-PFOS	6.322	47048	2.7404	ng/ml			
D5-NEtFOSAA	6.455	80322	9446.40		13C4-PFOS	6.322	47048	5.2081	ng/ml			
D7-NMeFOSE	9.049	312994	87022.10		13C4-PFOS	6.322	47048	27.0731	ng/ml			

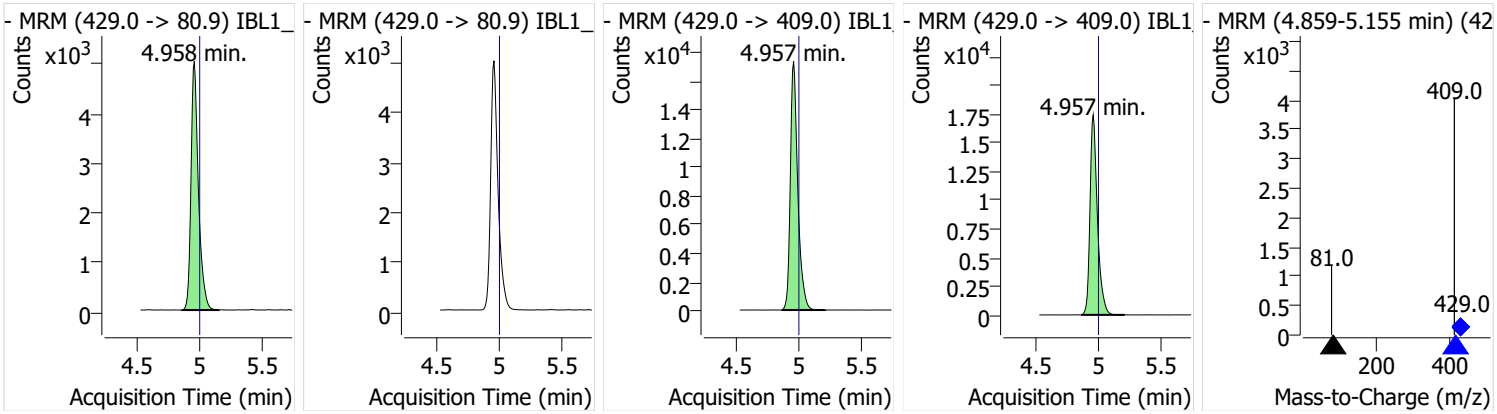
11Cl-PF3OUdS



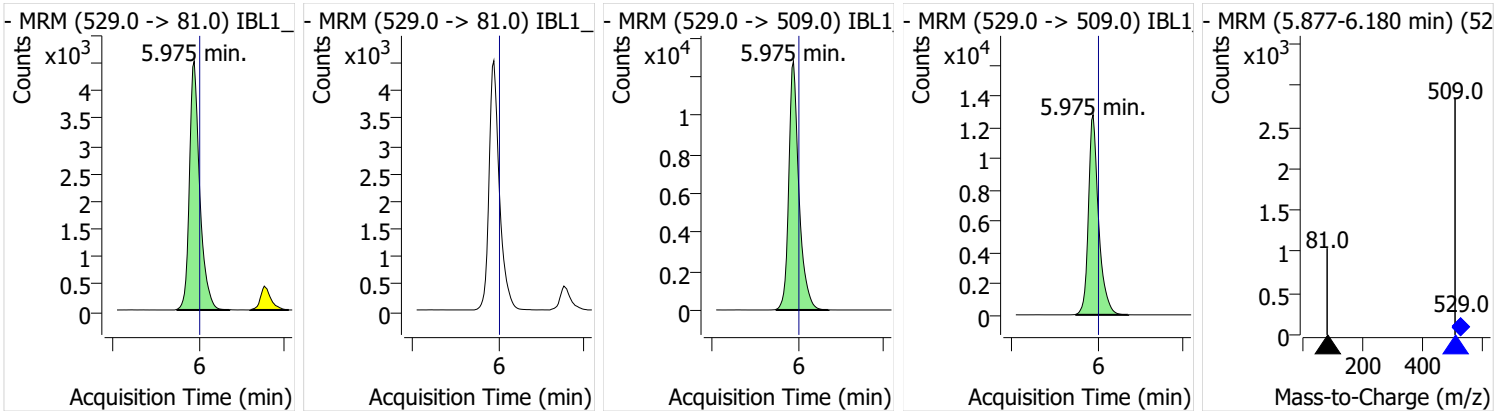
13C2-4:2FTS - ISTD



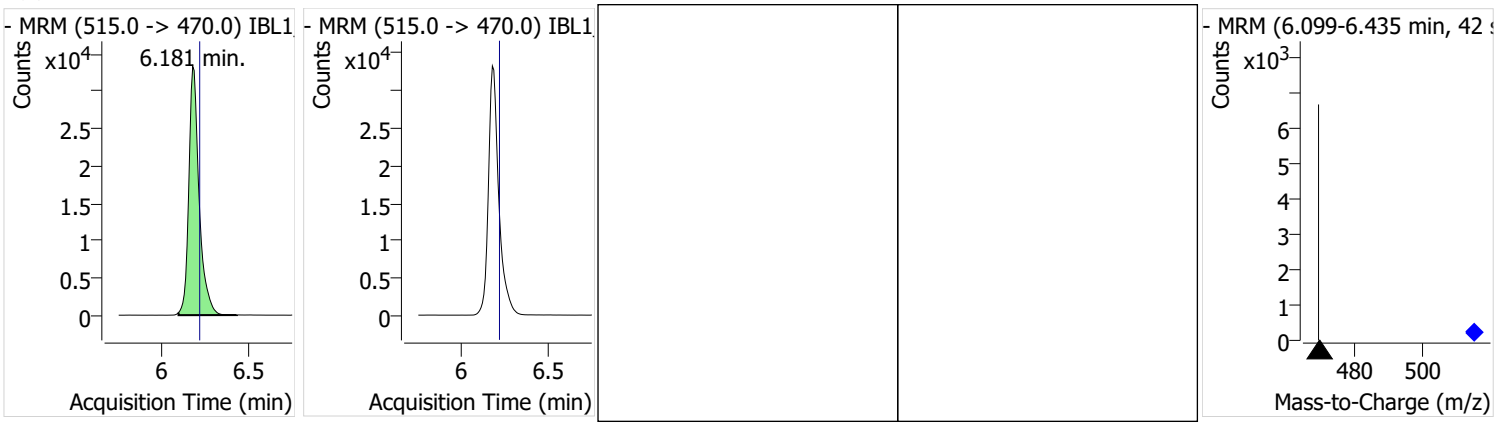
13C2-6:2FTS - ISTD



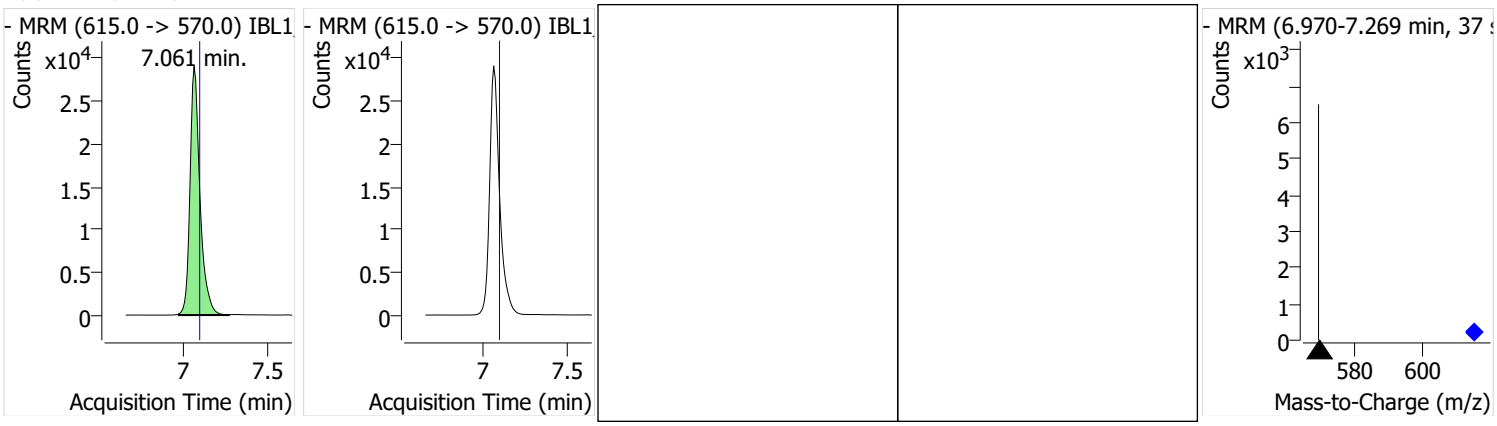
13C2-8:2FTS - ISTD



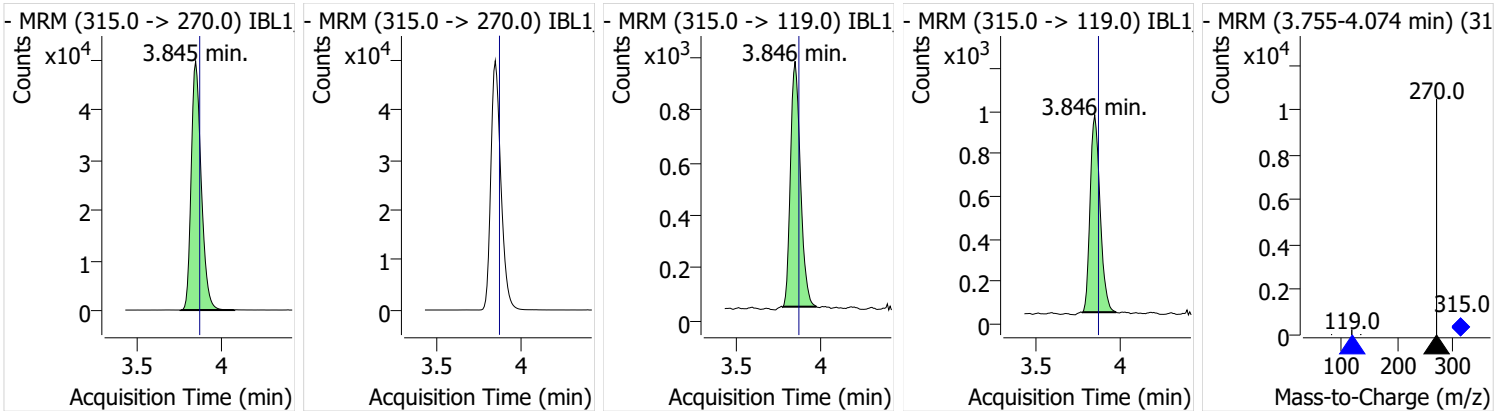
13C2-PFDA



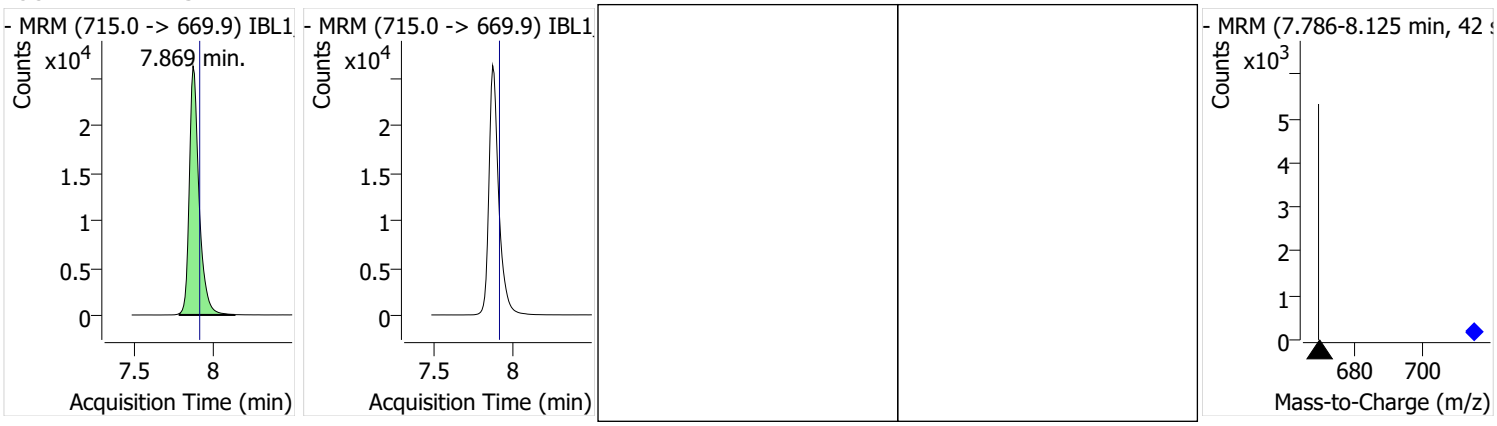
13C2-PFDoA - ISTD



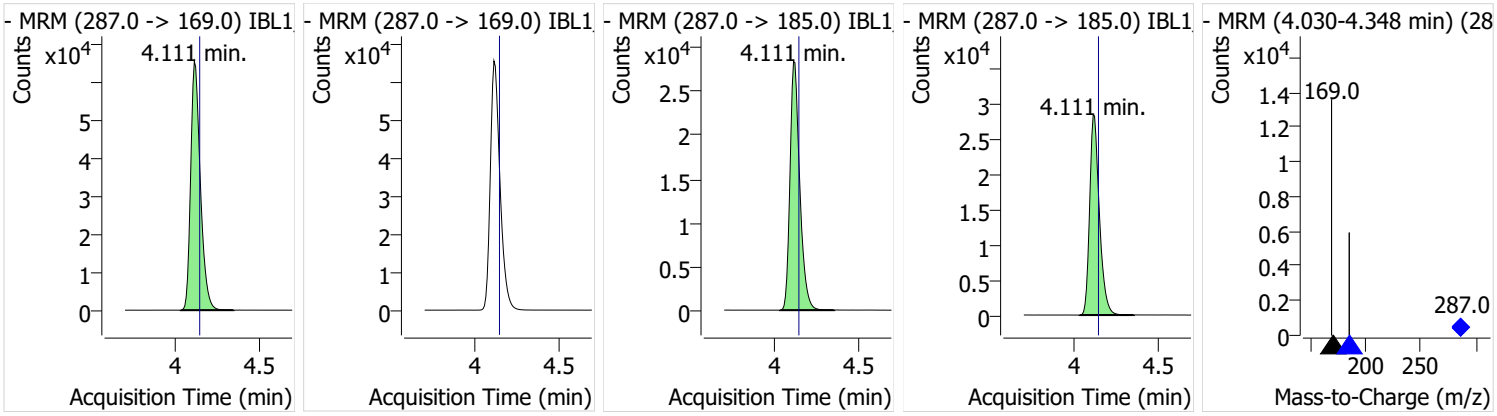
13C2-PFHxA



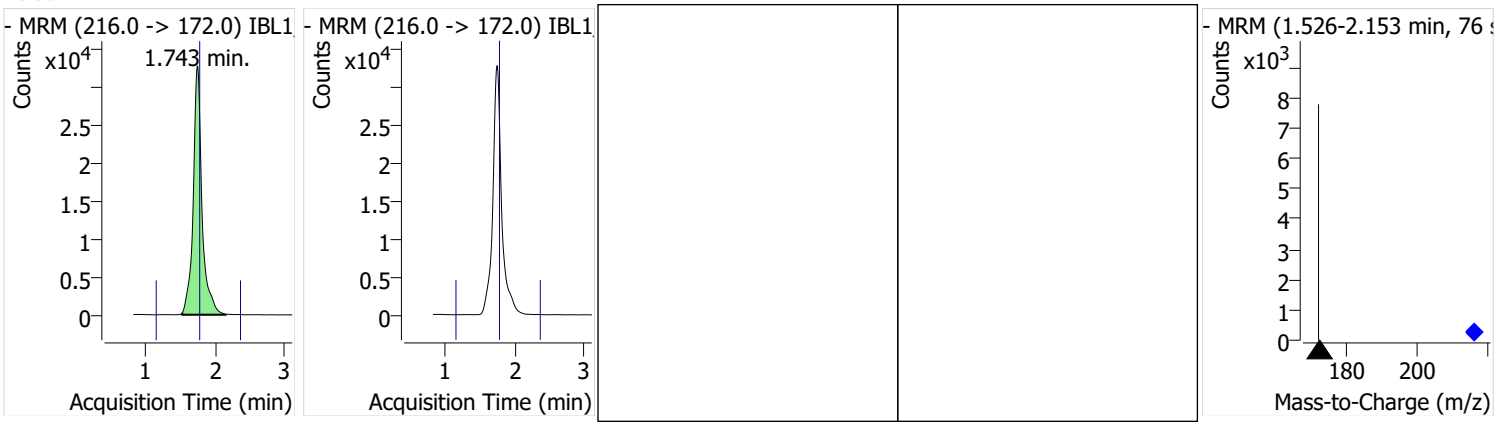
13C2-PFTeDA - ISTD



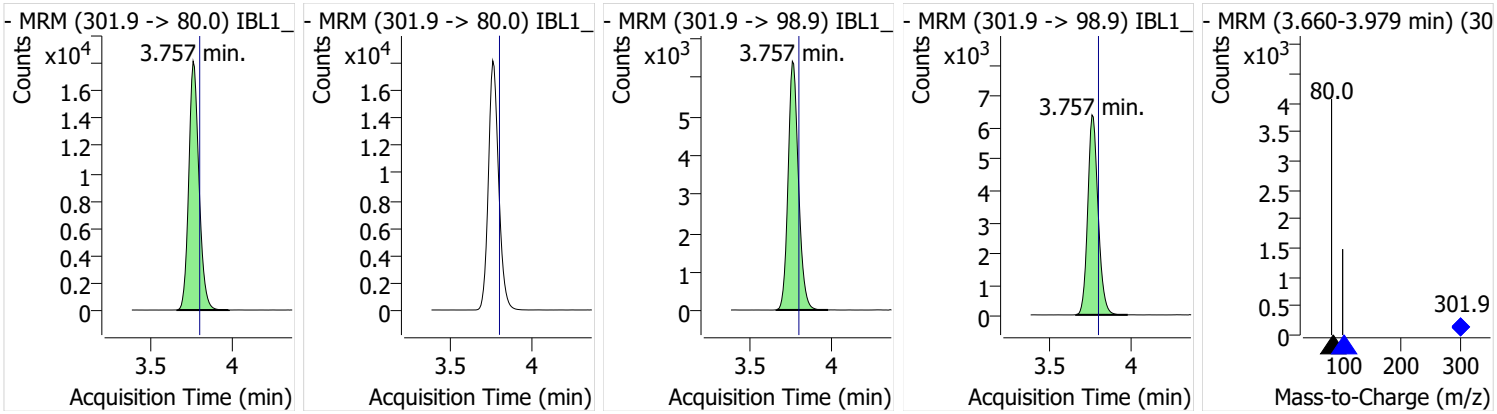
13C3-HFPODA - ISTD



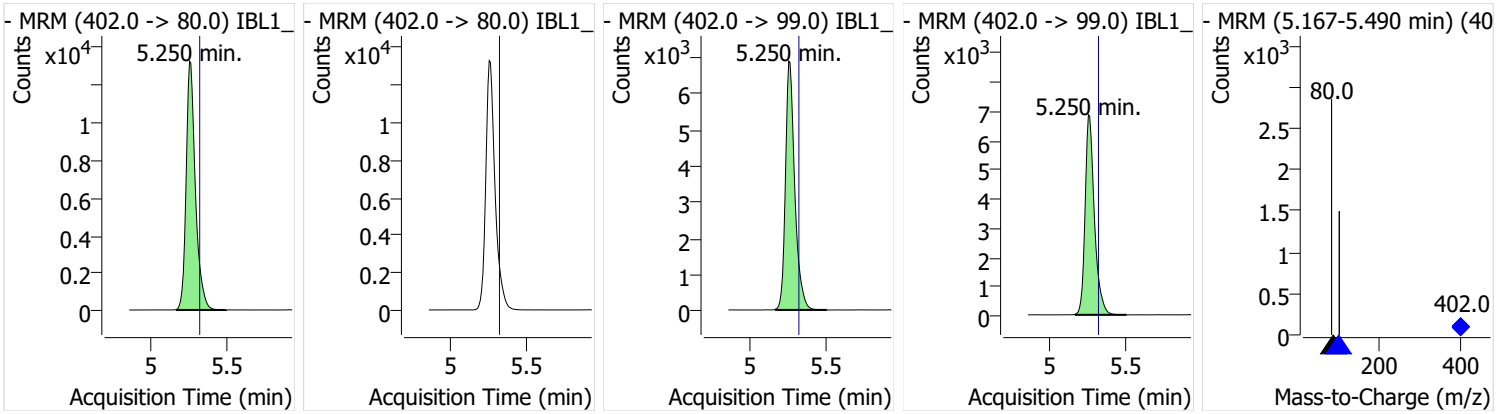
13C3-PFBA



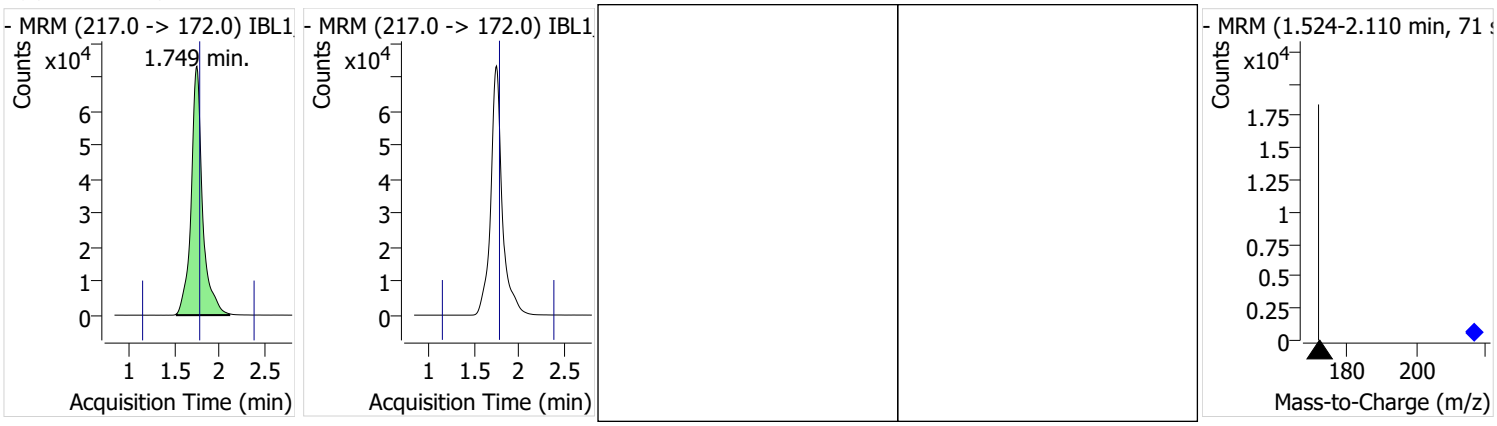
13C3-PFBS - ISTD



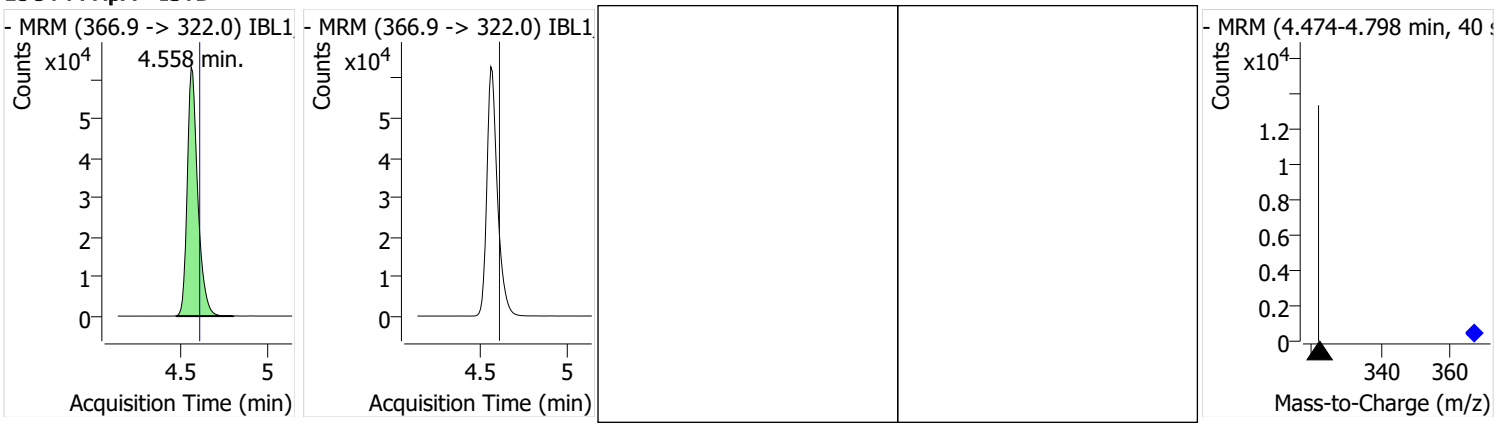
13C3-PFHxS - ISTD



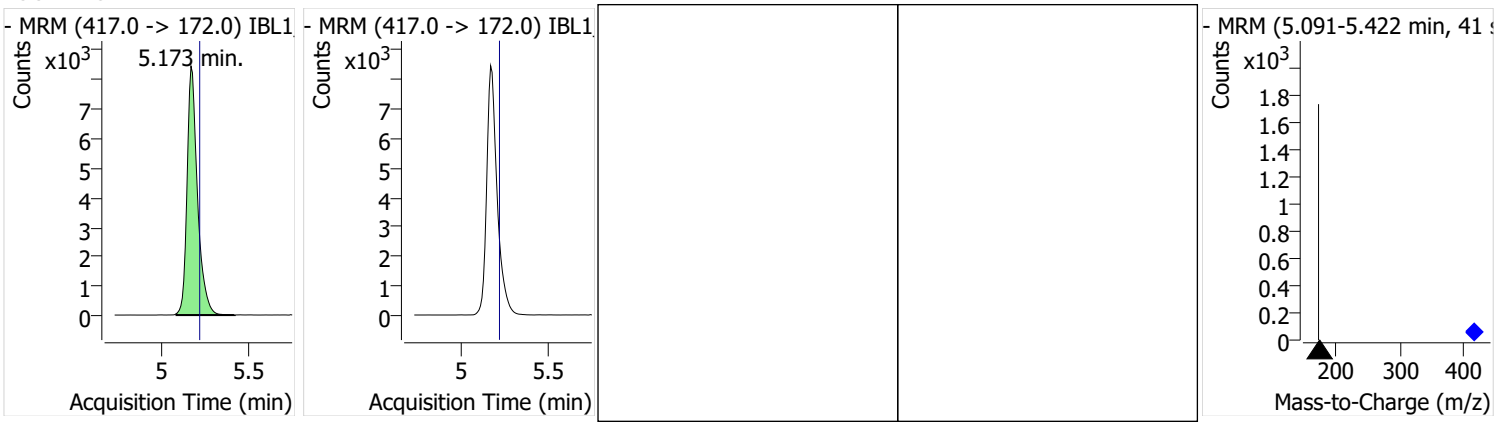
13C4-PFBA - ISTD



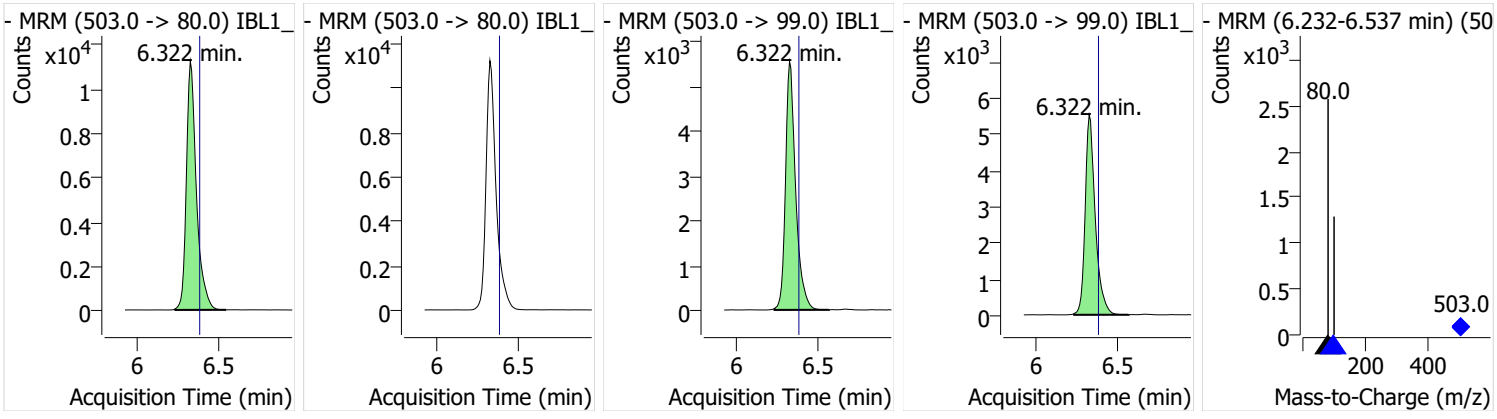
13C4-PFHpA - ISTD



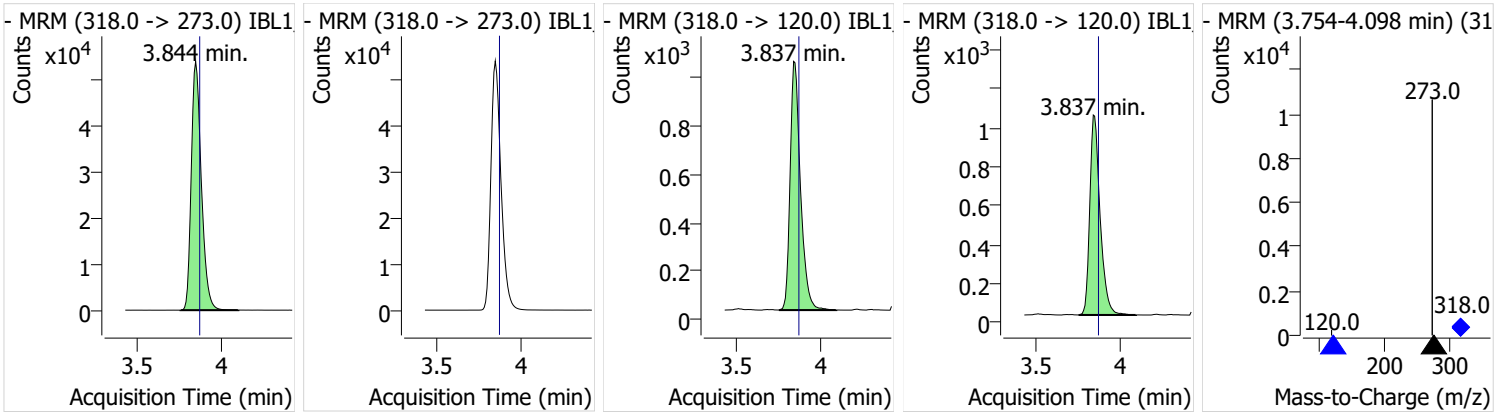
13C4-PFOA



13C4-PFOS



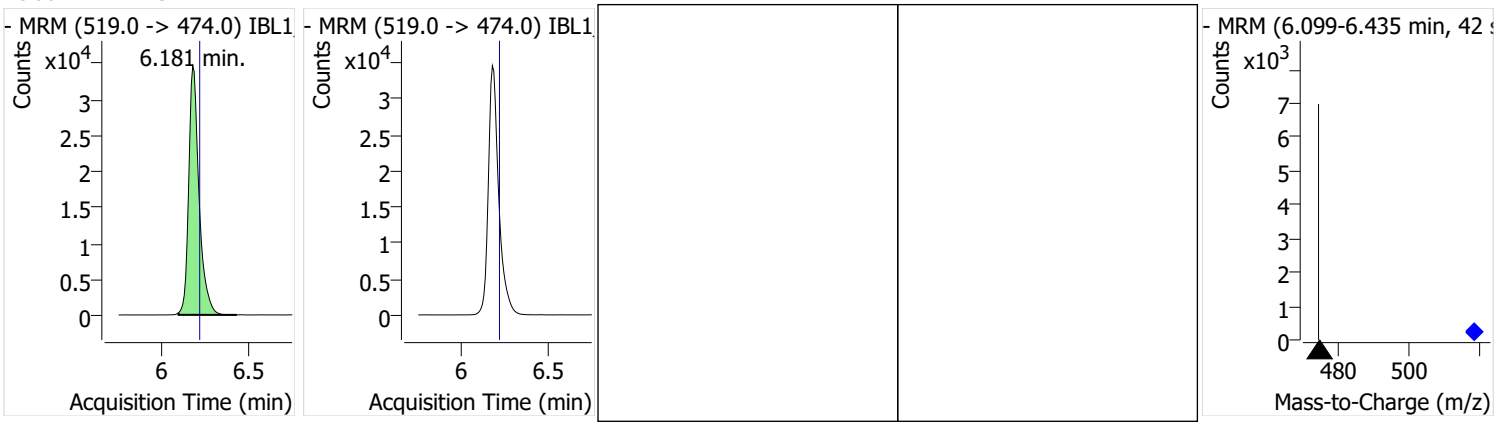
13C5-PFHxA - ISTD



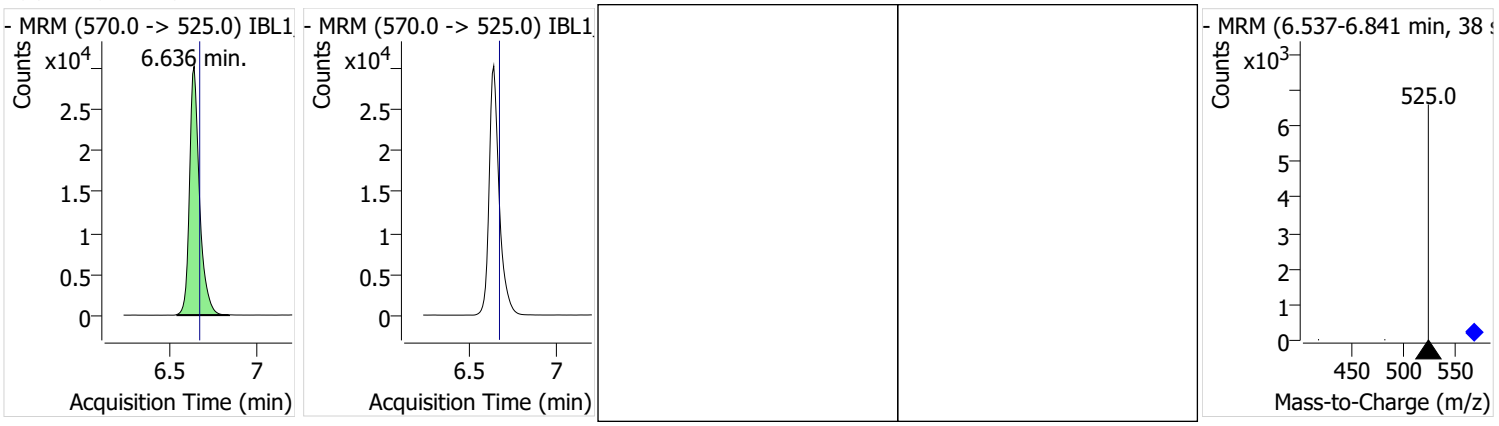
13C5-PFNA

13C5-PFPeA - ISTD

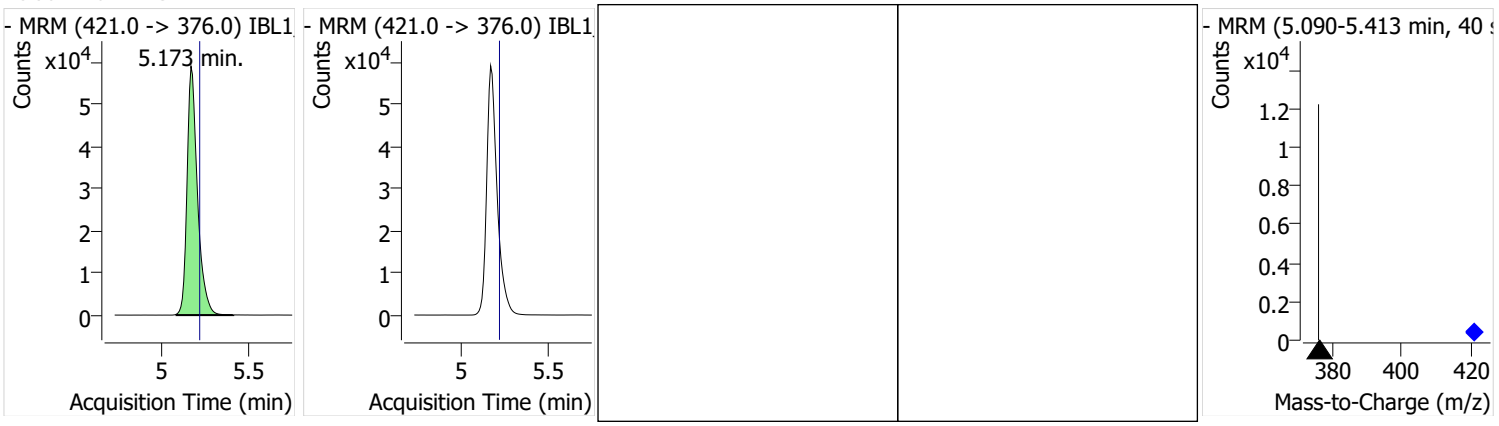
13C6-PFDA - ISTD



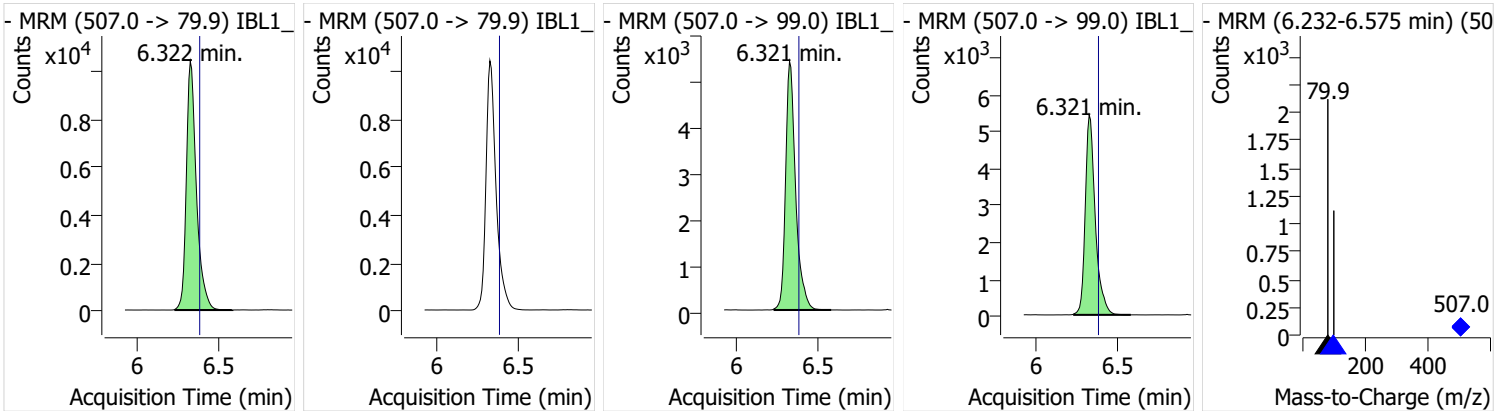
13C7-PFUnA - ISTD



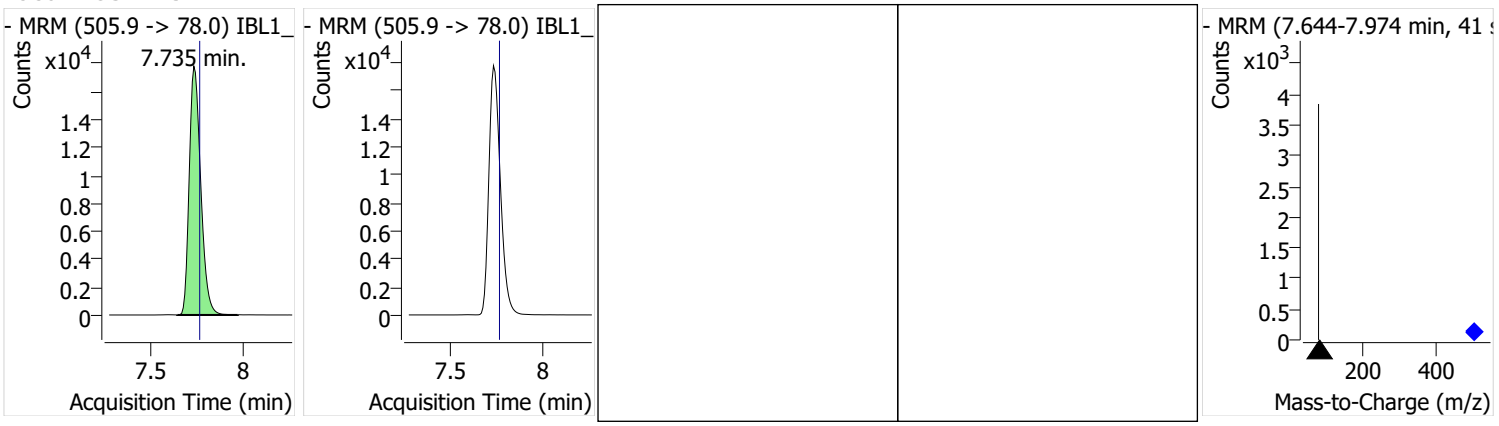
13C8-PFOA - ISTD



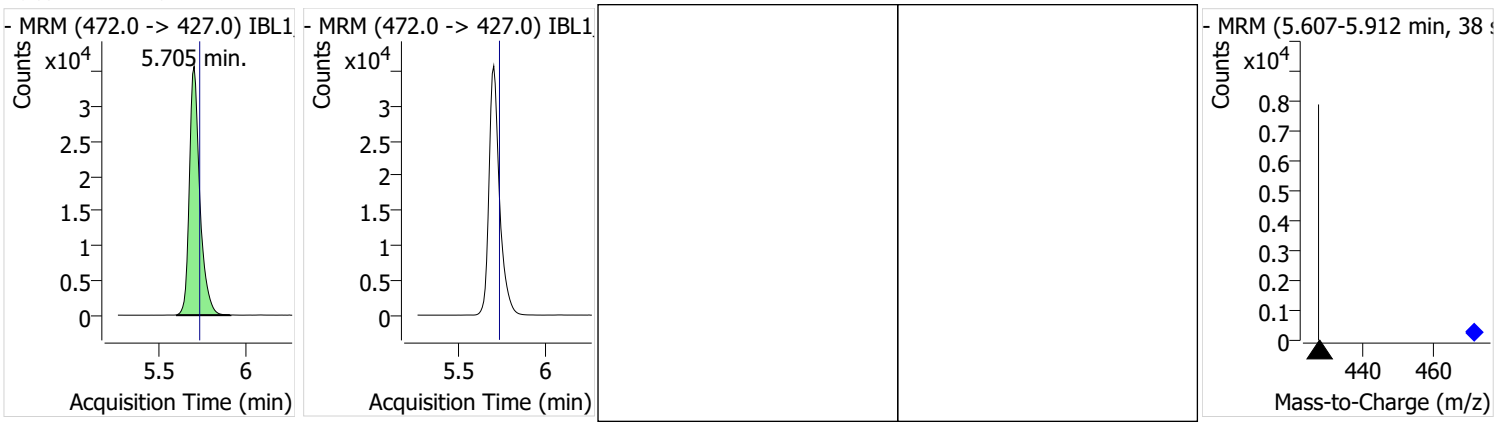
13C8-PFOS - ISTD



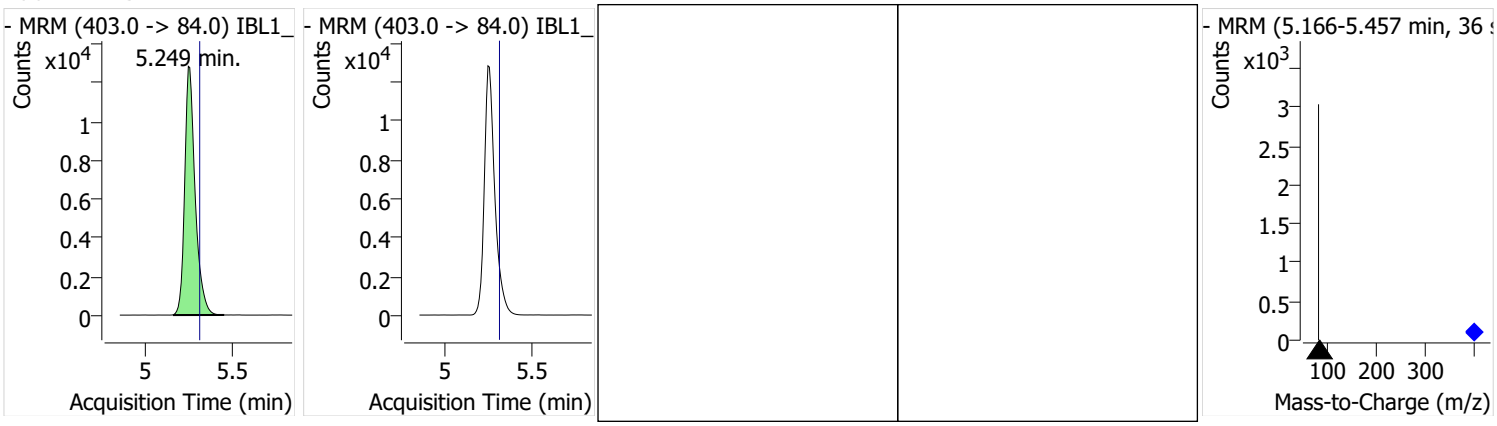
13C8-PFOSA - ISTD



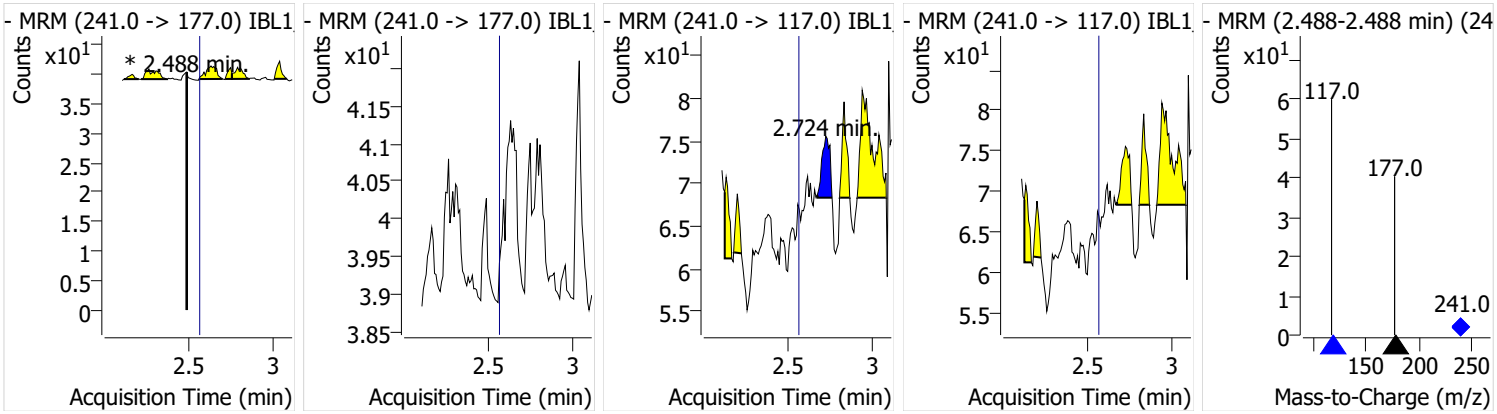
13C9-PFNA - ISTD



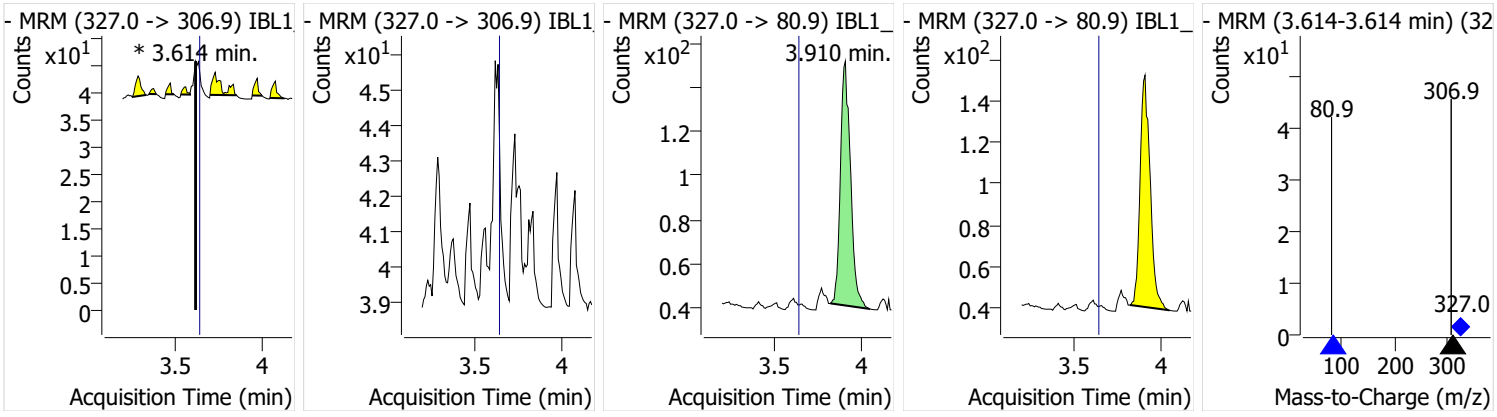
18O2-PFHxS



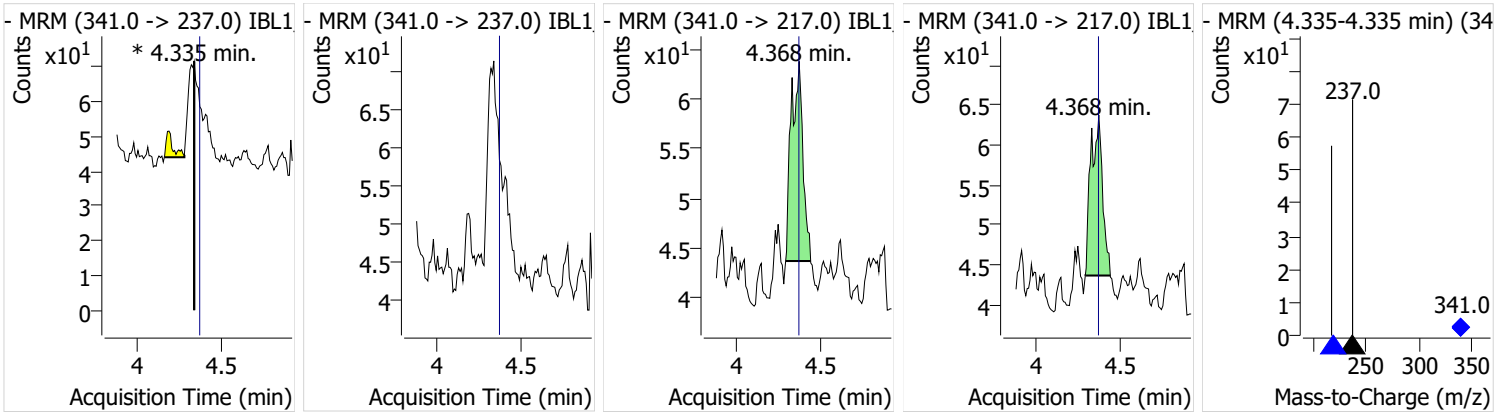
3:3FTCA



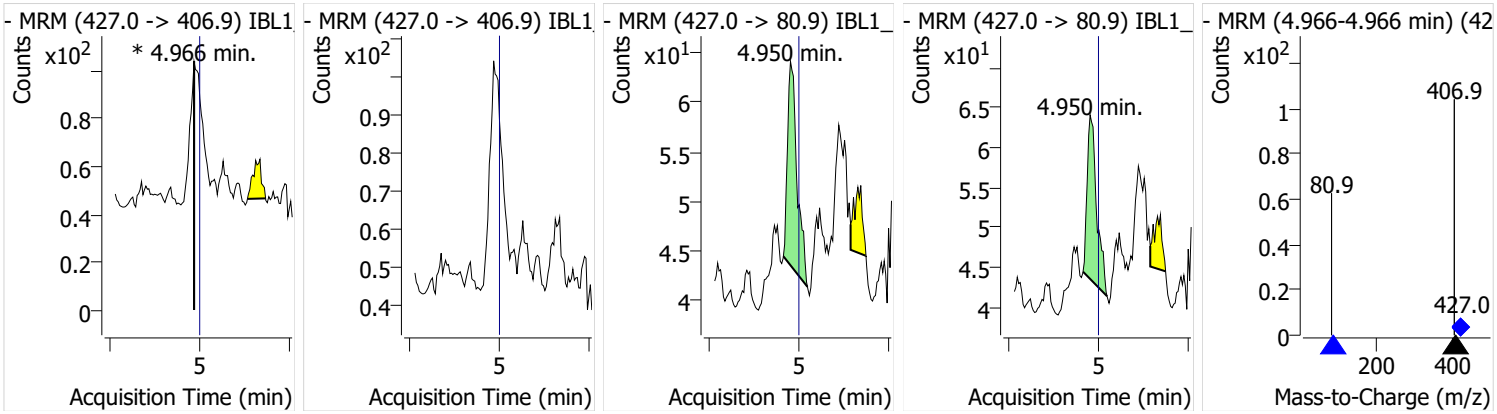
4:2FTS



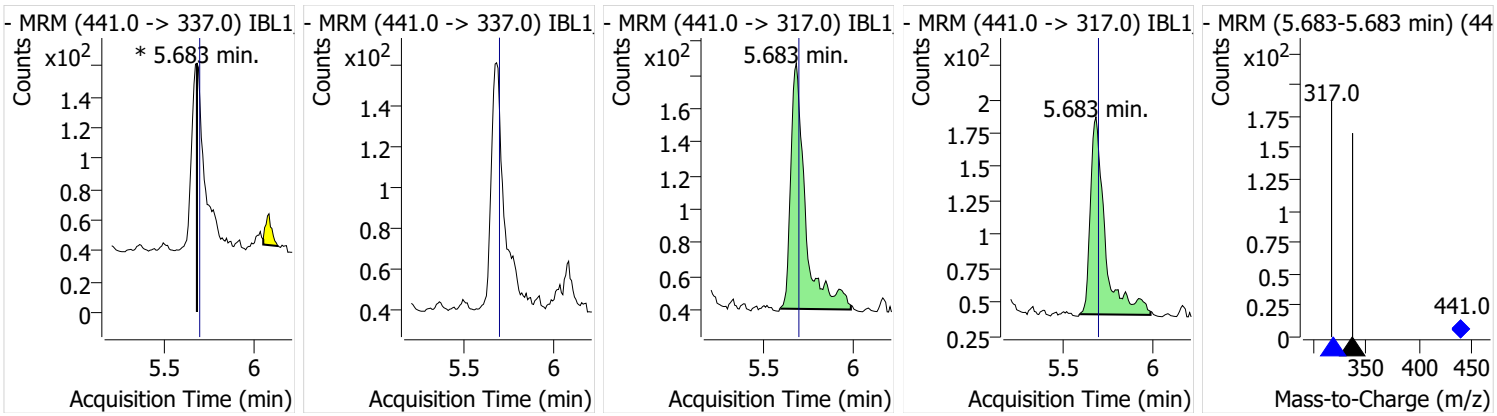
5:3FTCA



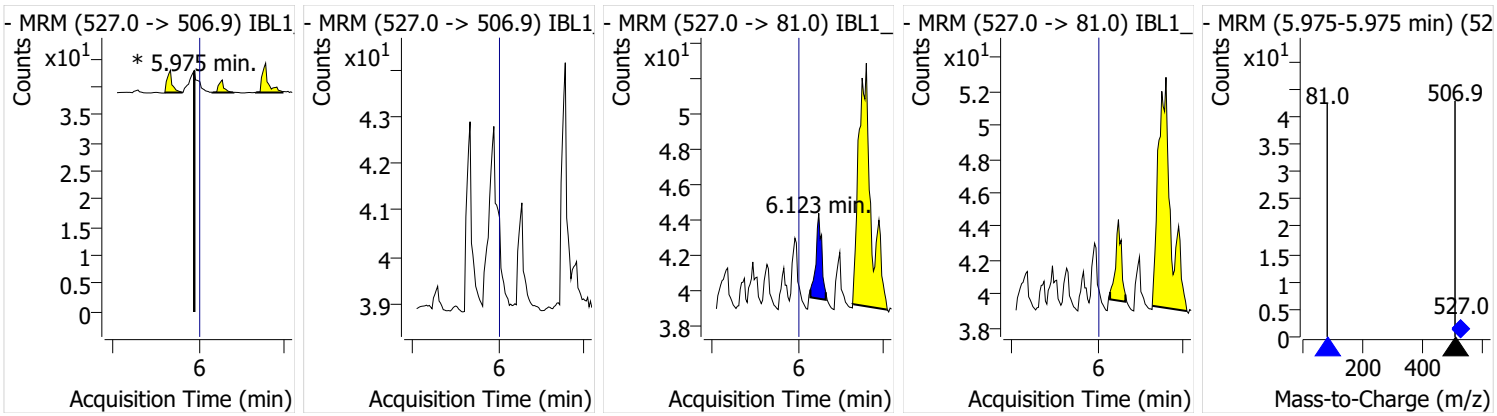
6:2FTS



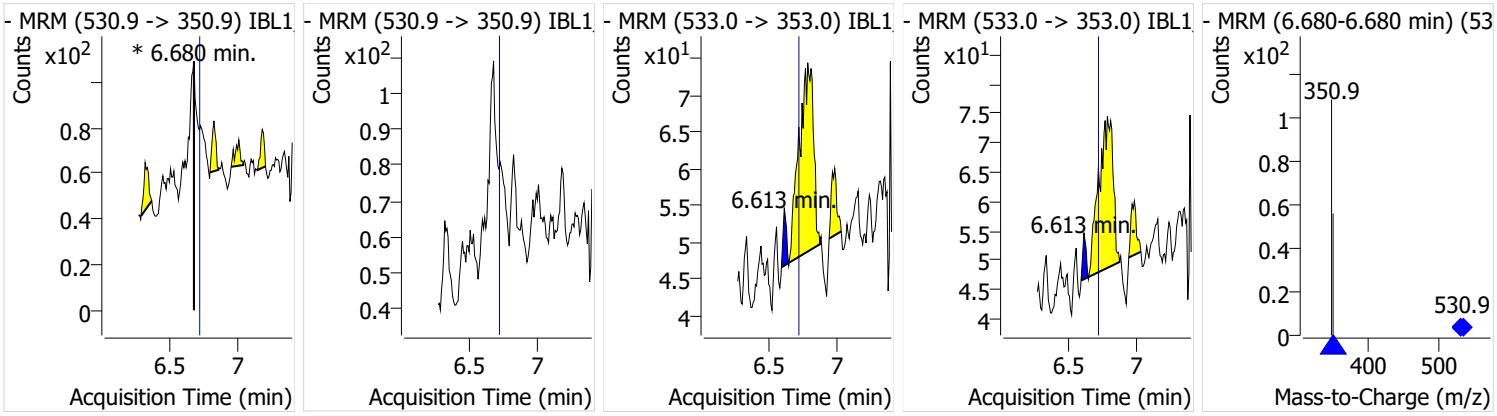
7:3FTCA



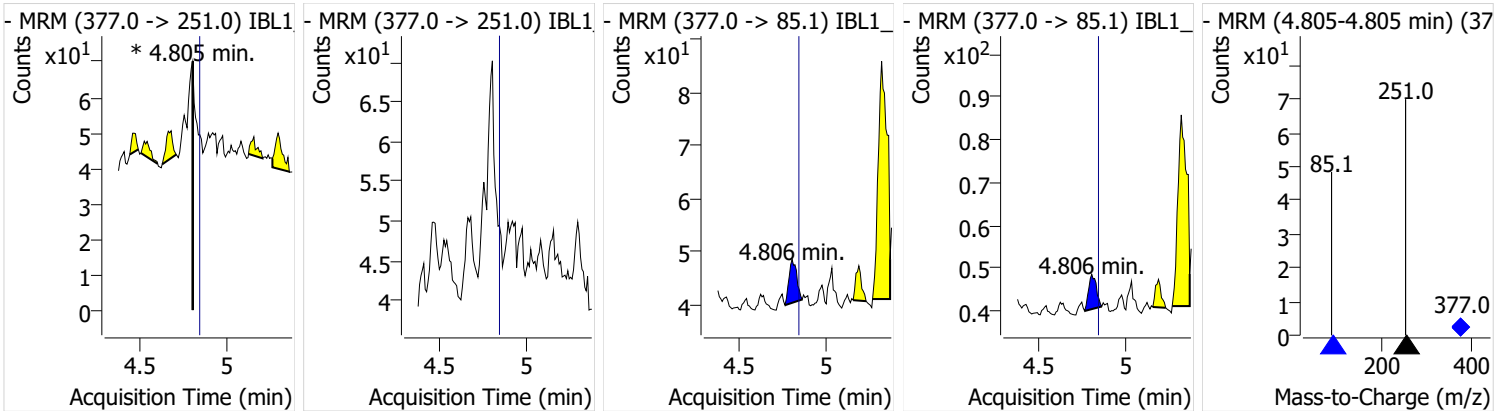
8:2FTS



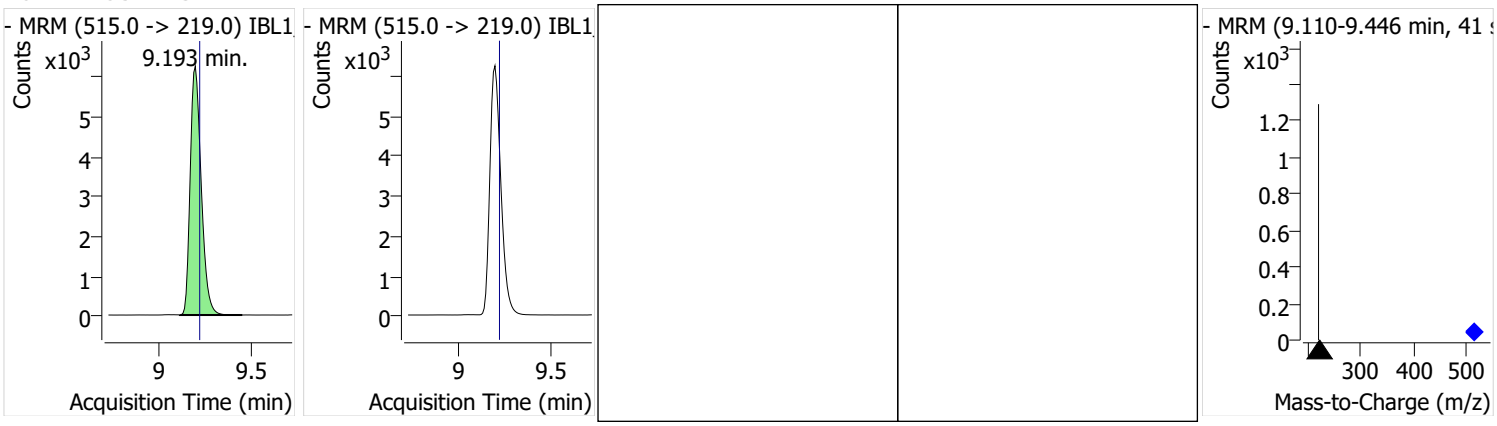
9Cl-PF3ONS



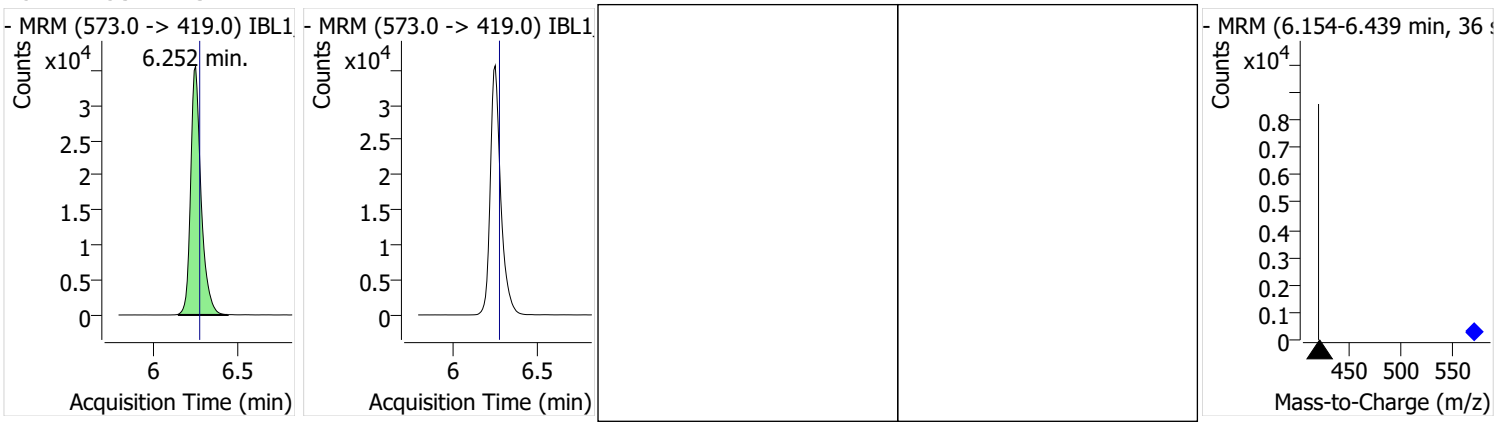
ADONA



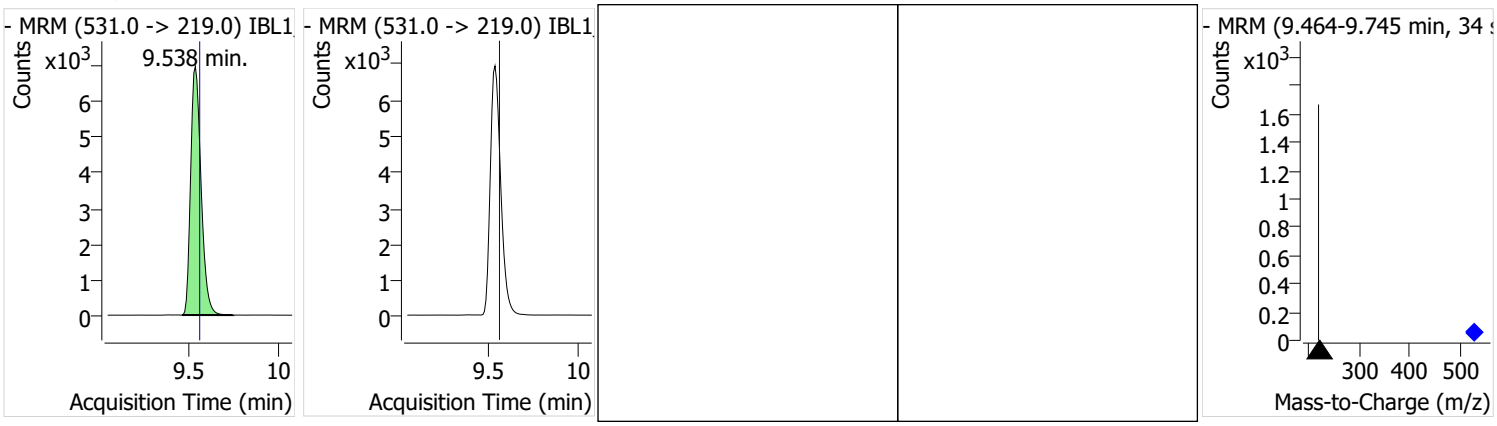
D3-NMeFOSA - ISTD



D3-NMeFOSAA - ISTD

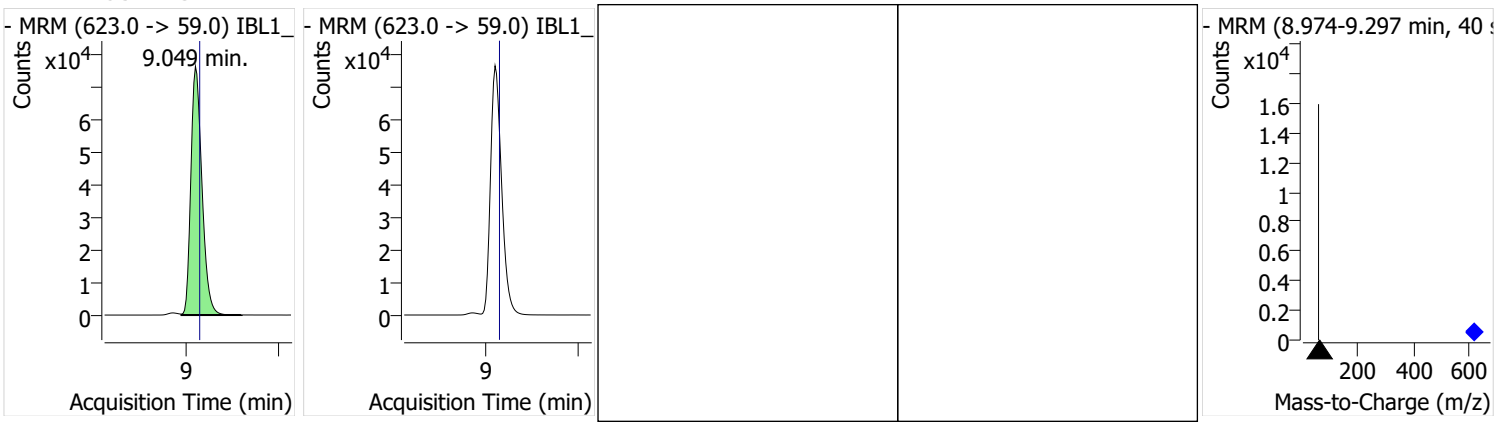


D5-NEtFOSA - ISTD



D5-NEtFOSAA - ISTD

D7-NMeFOSE - ISTD



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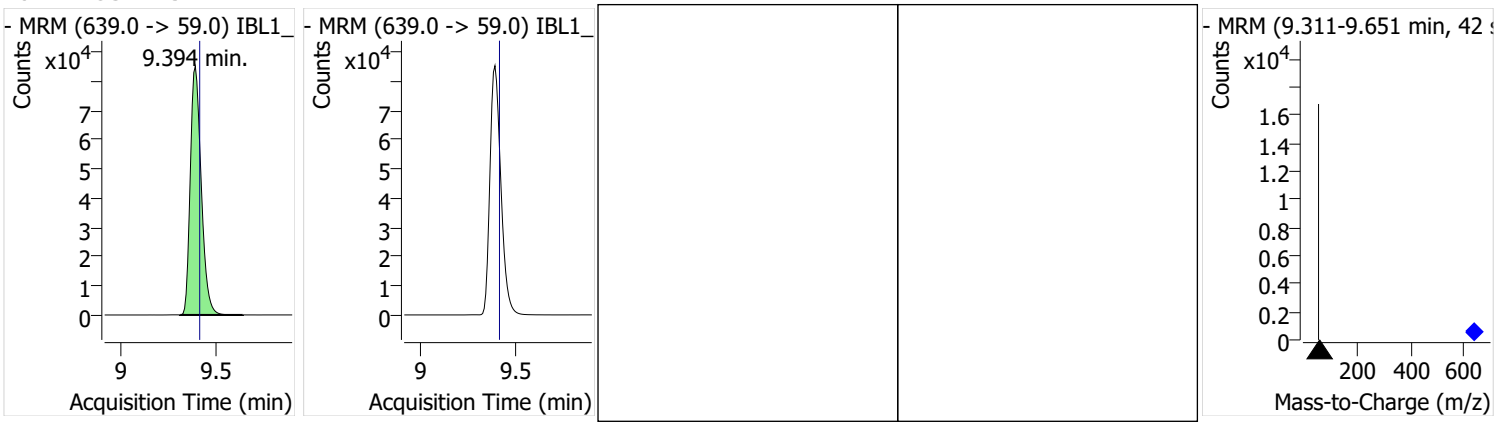

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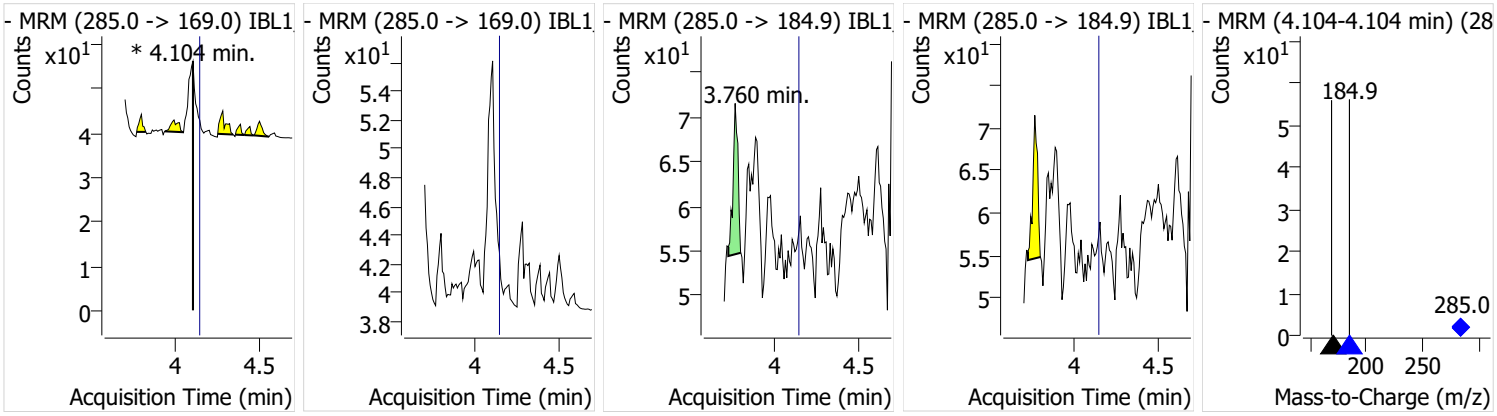

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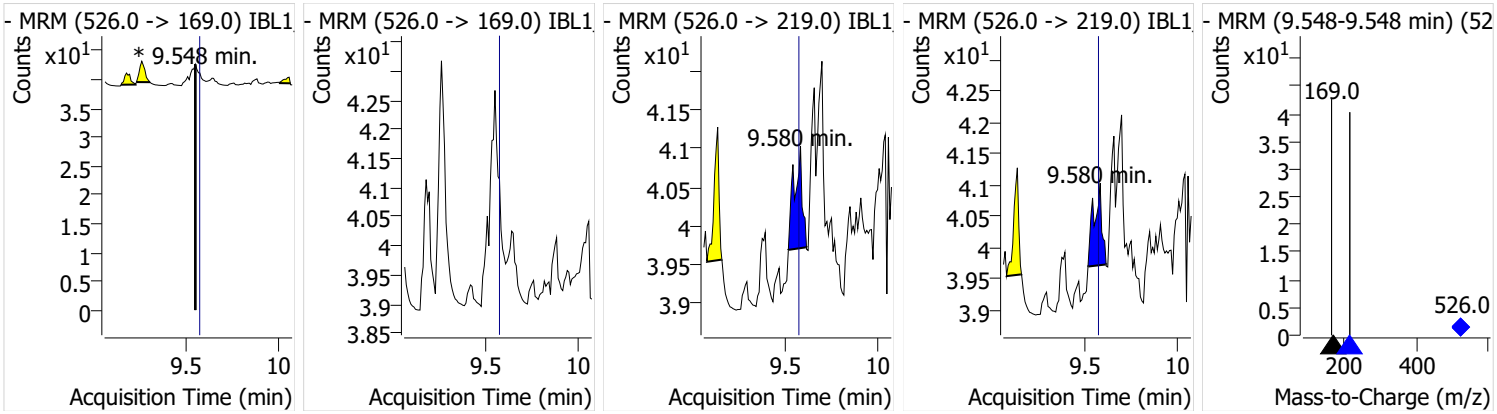

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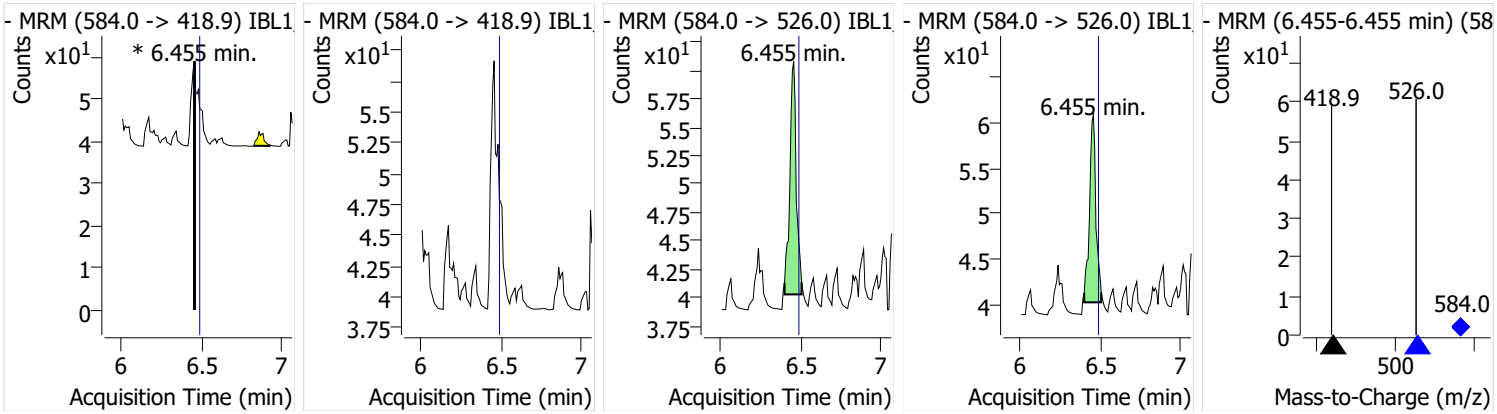

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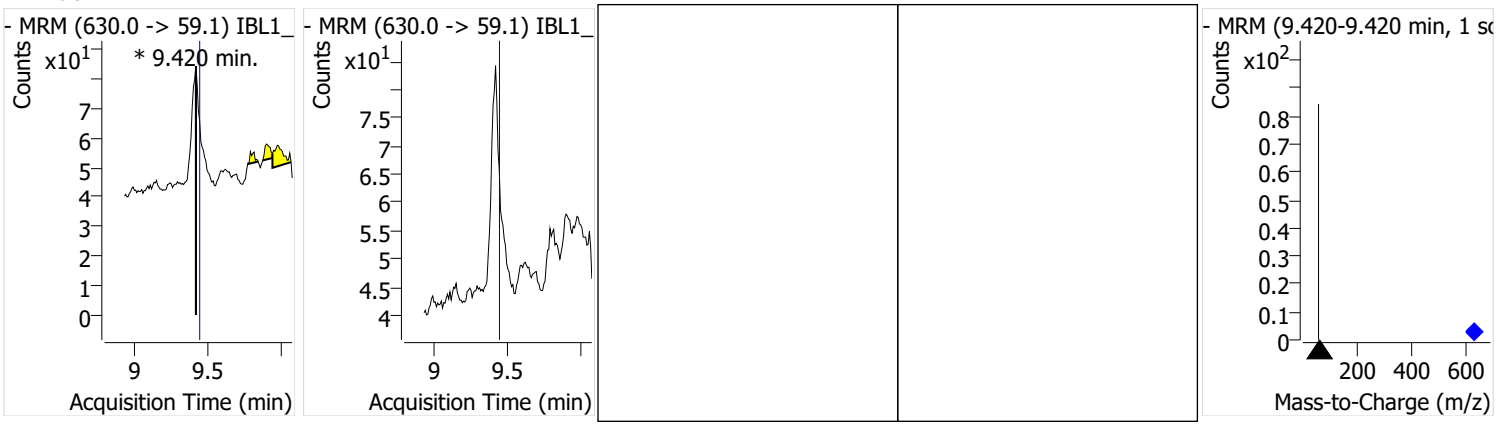

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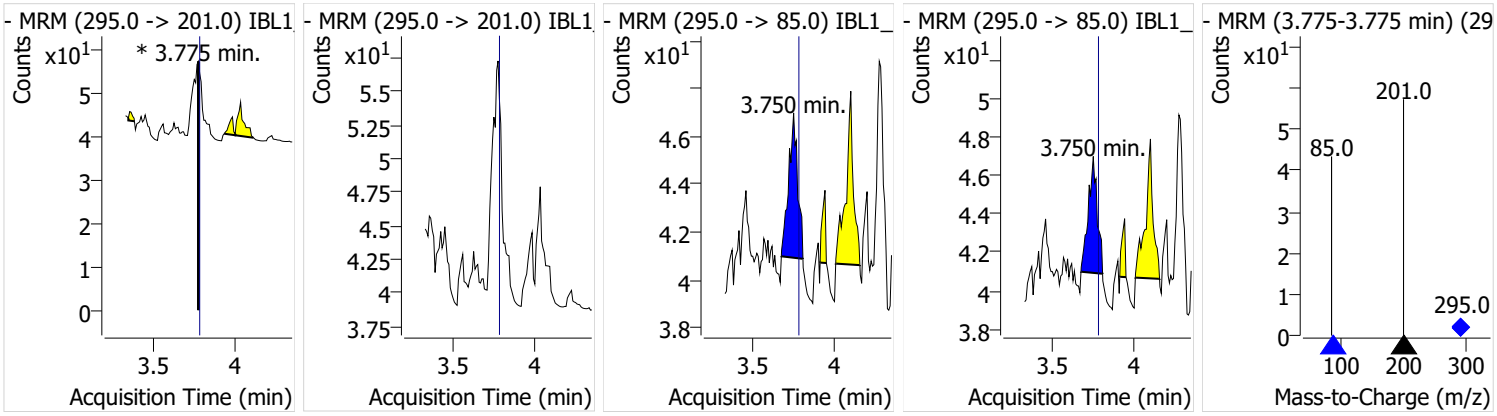

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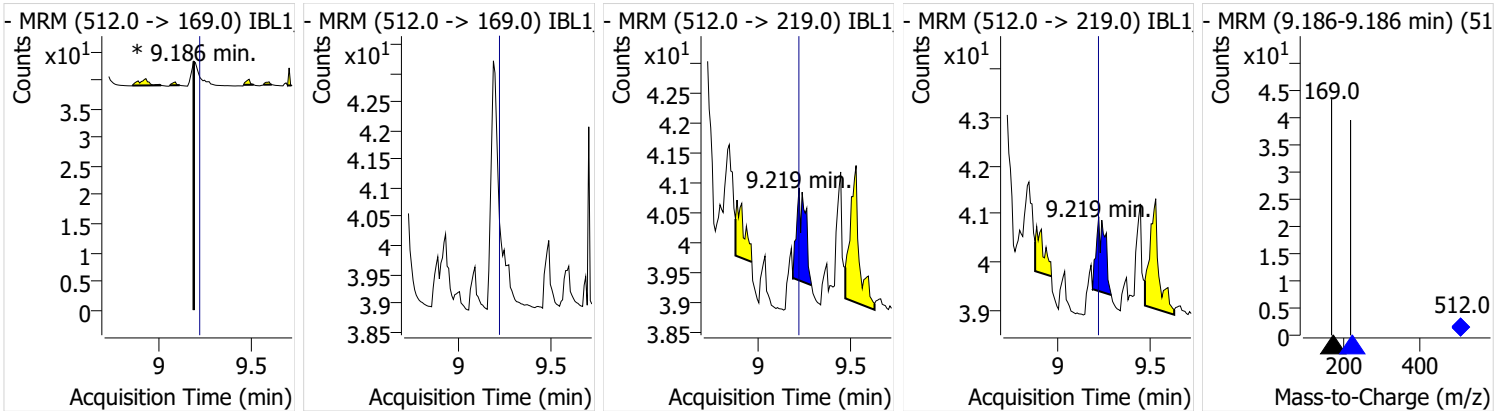

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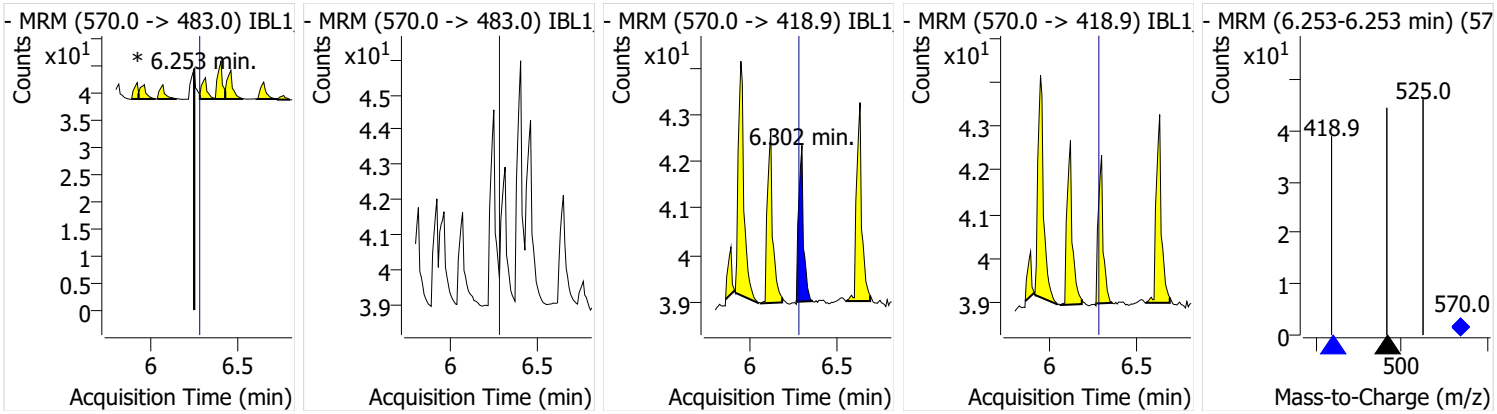

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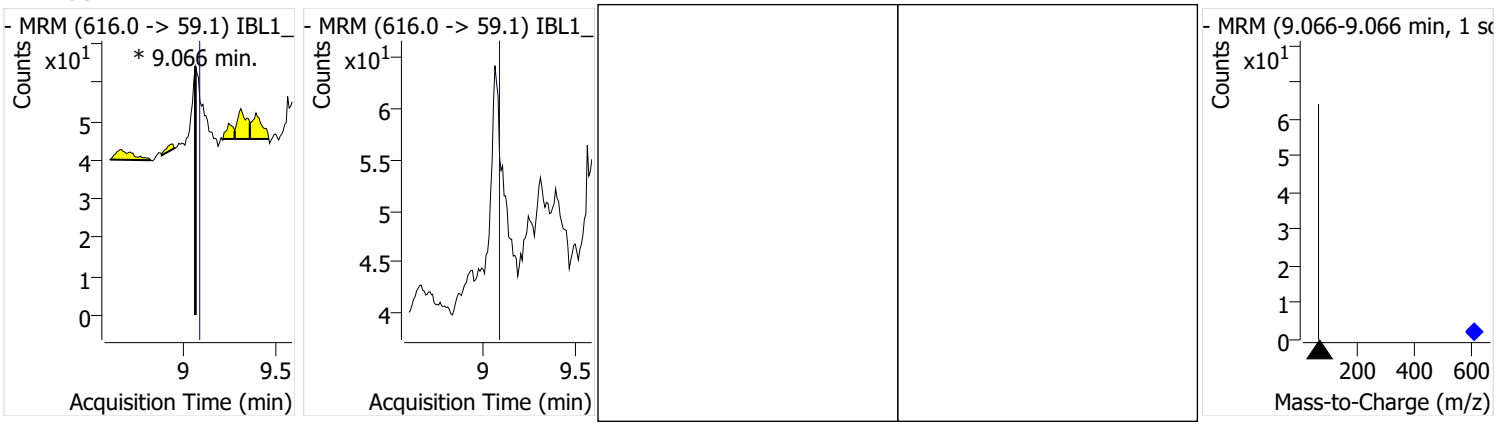

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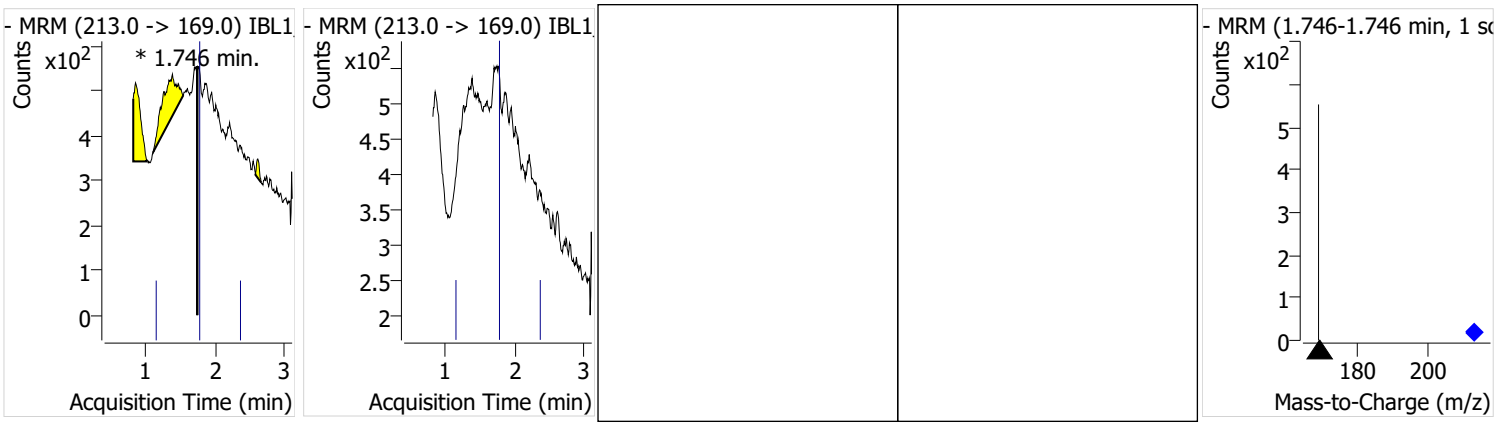

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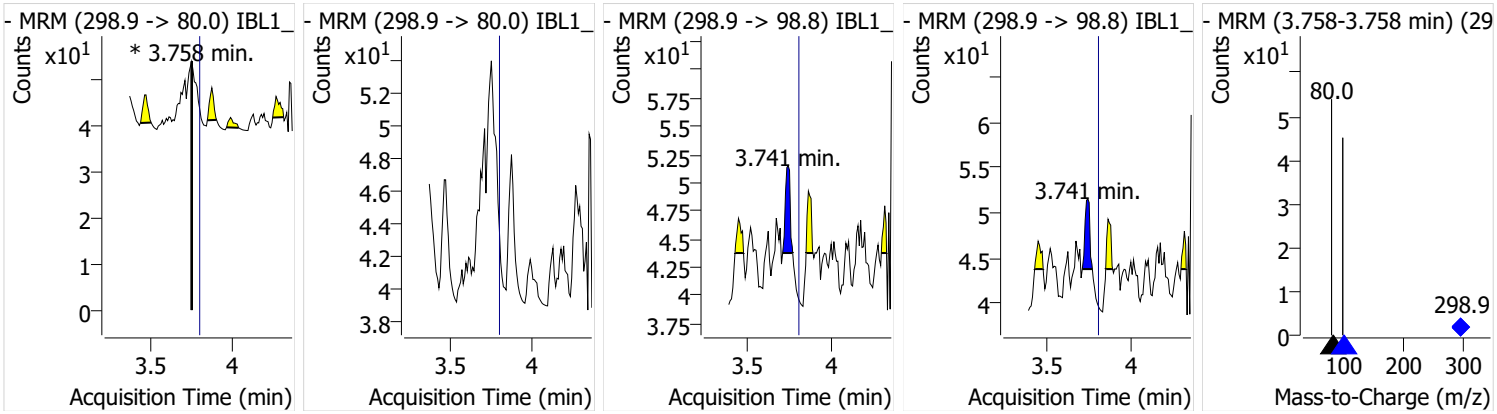

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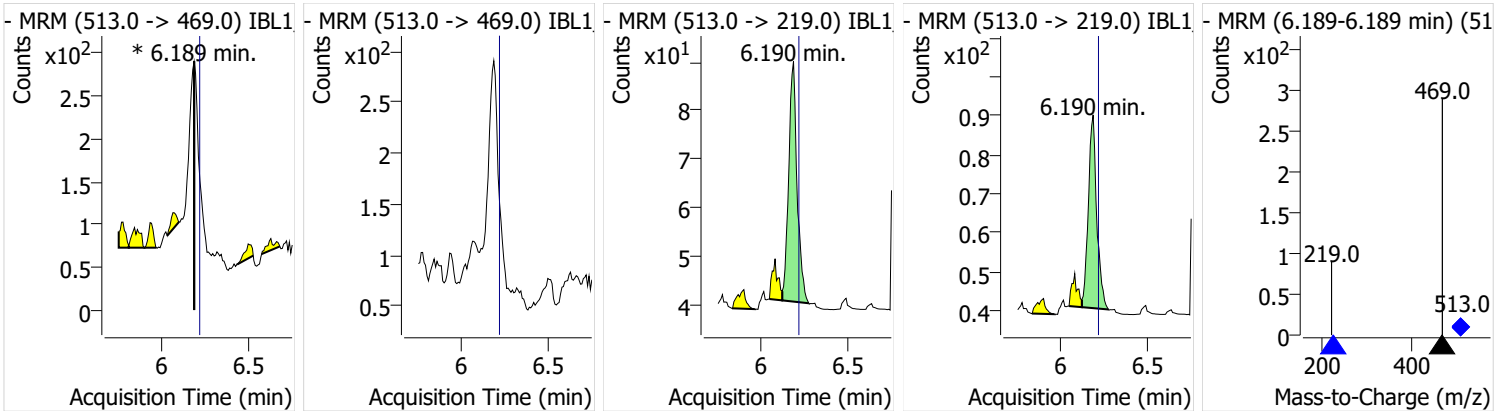

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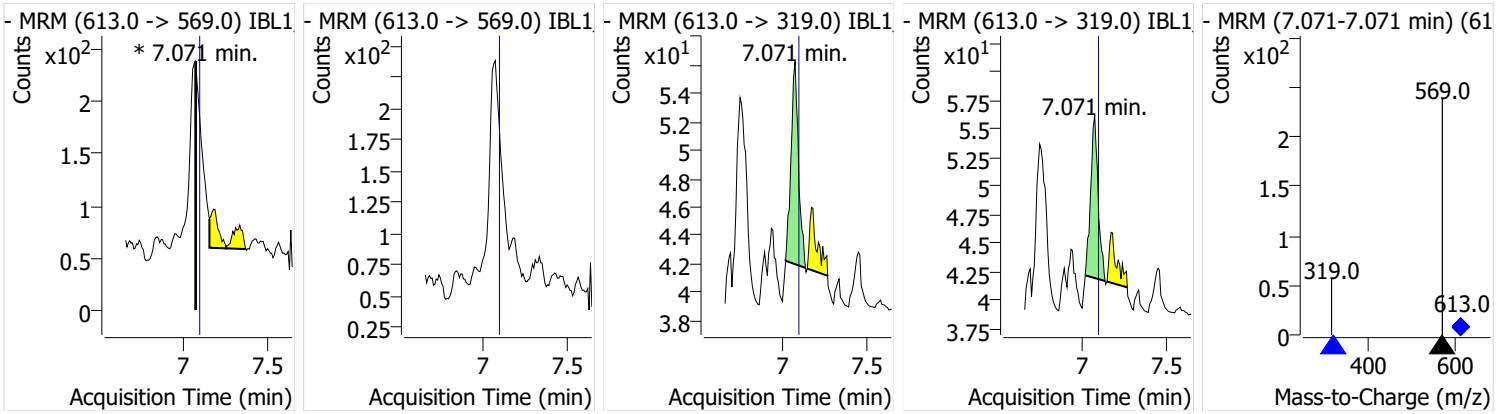

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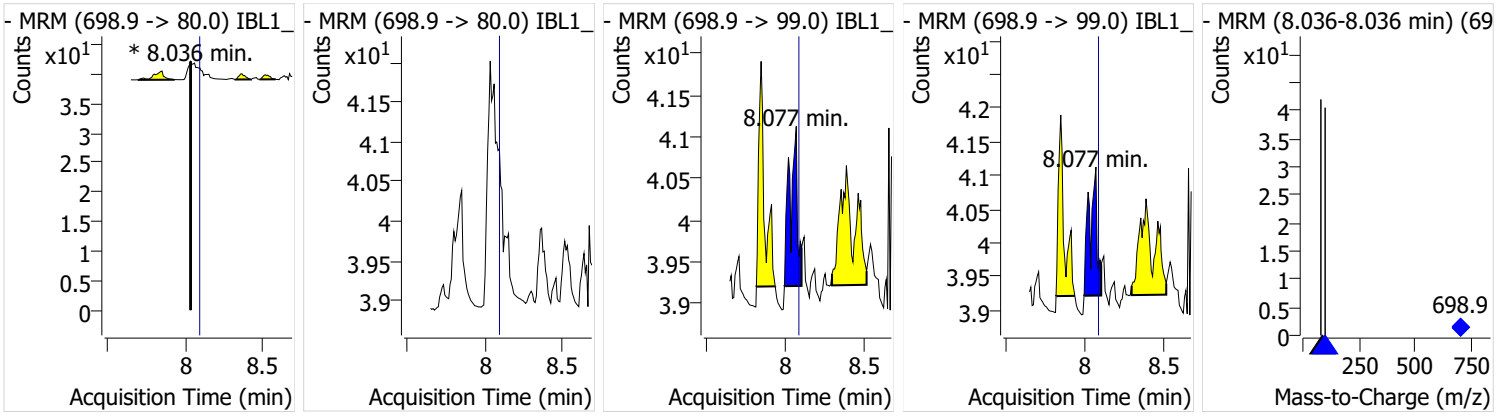

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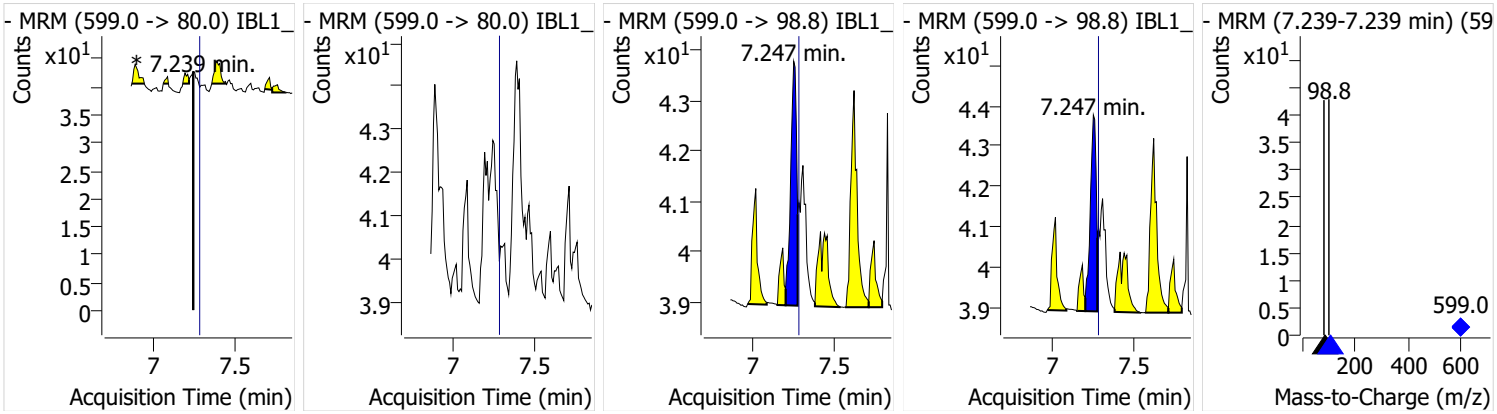

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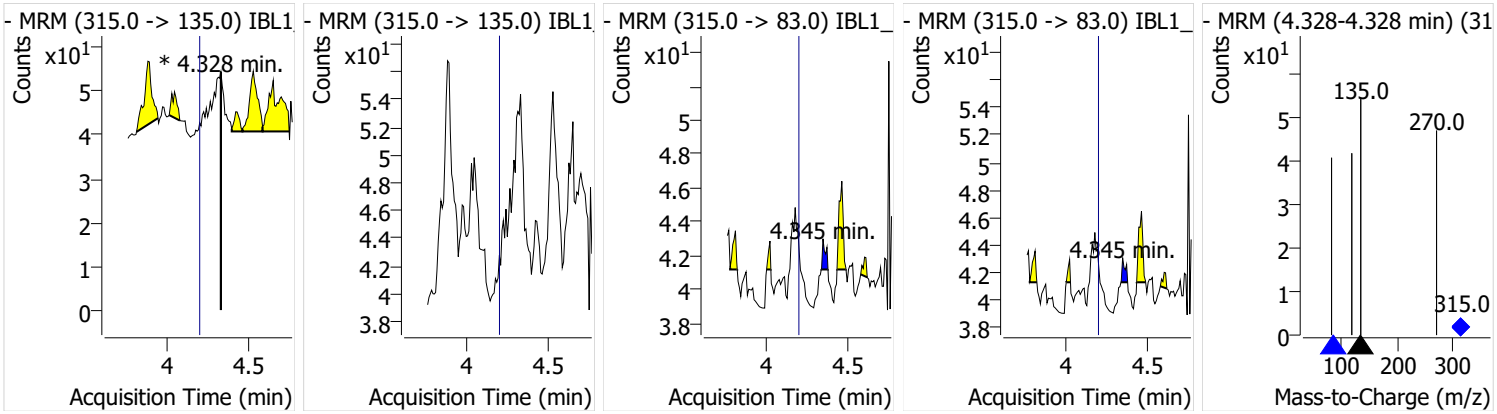

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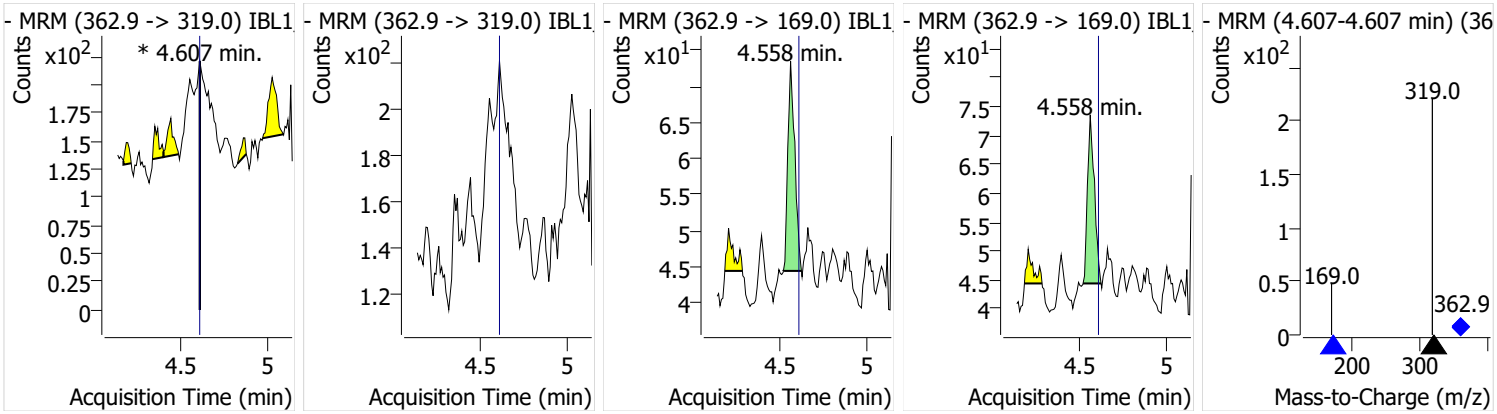

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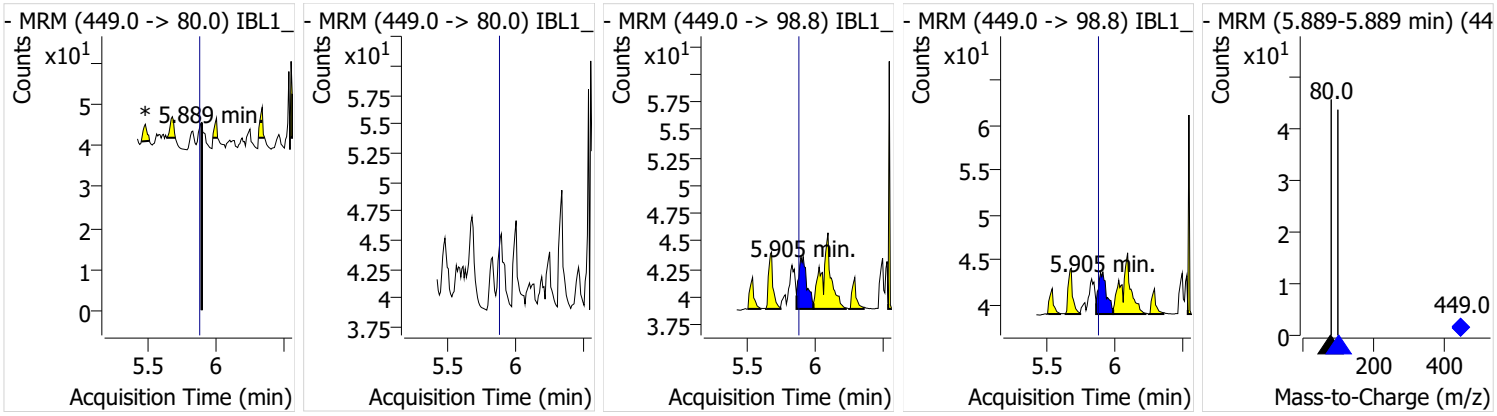

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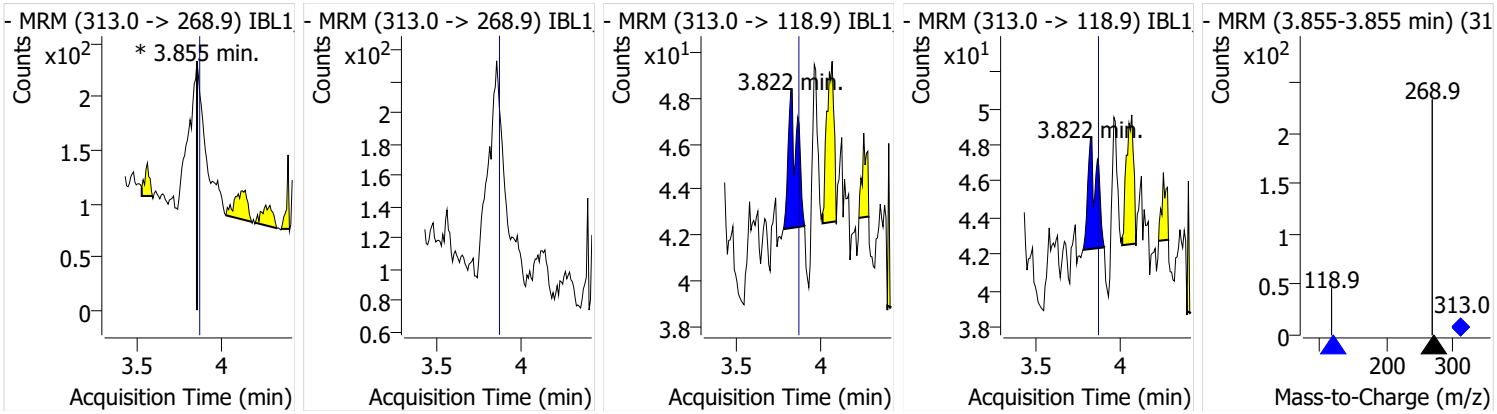

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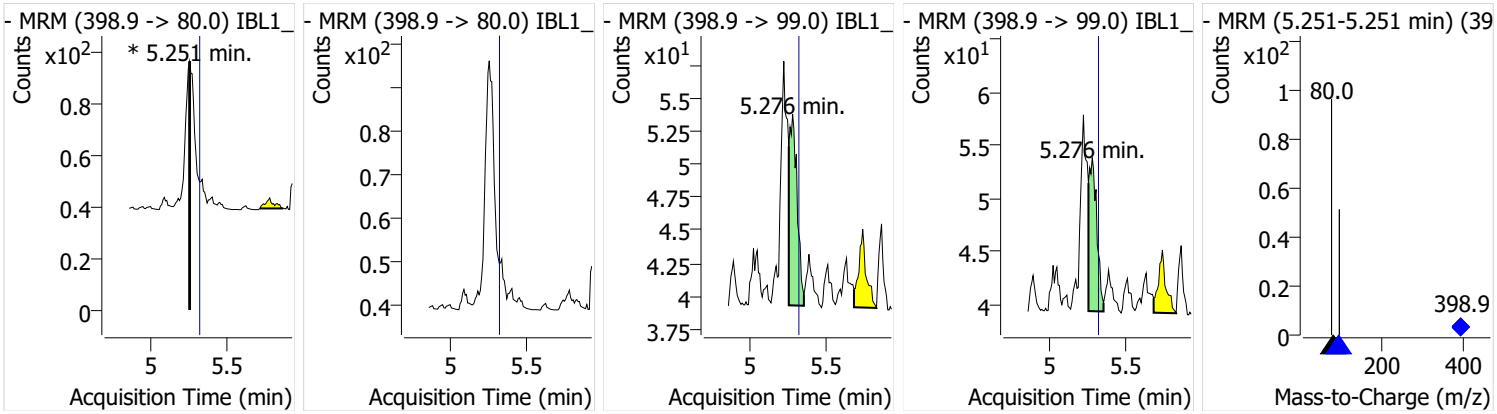

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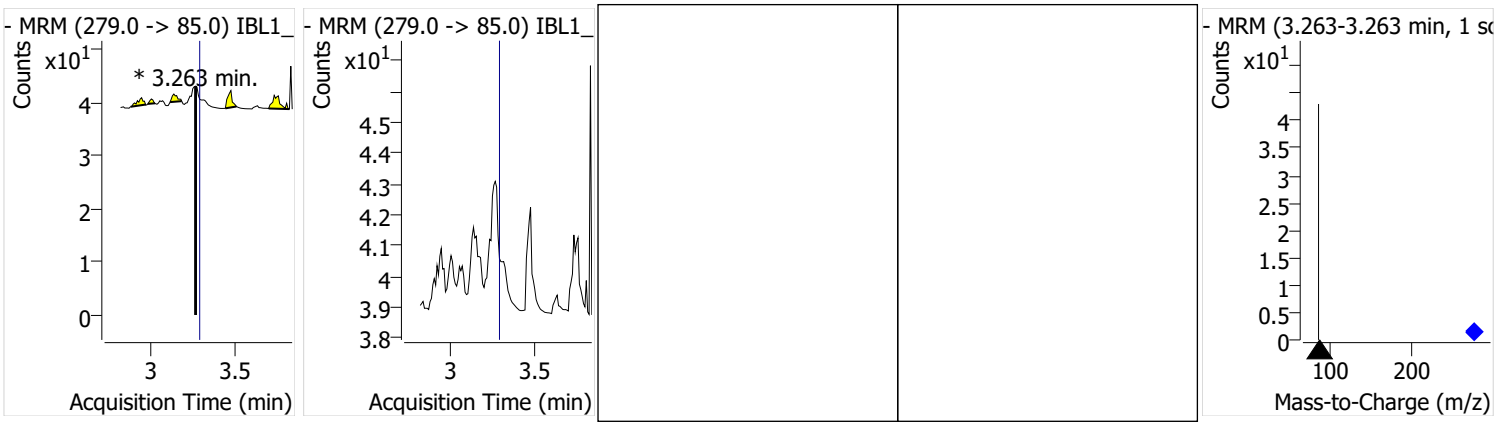

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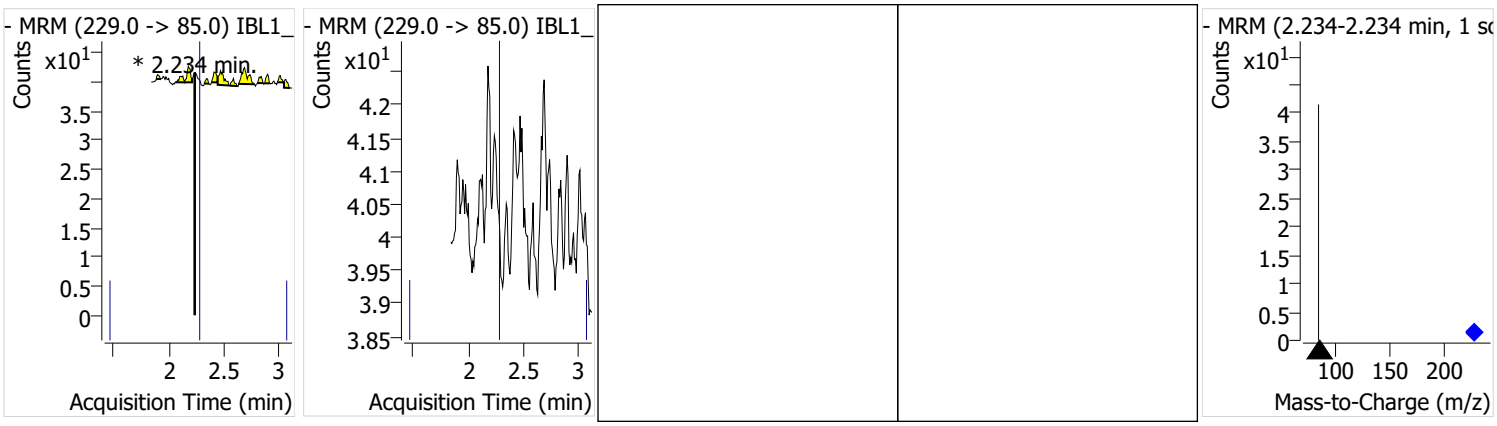

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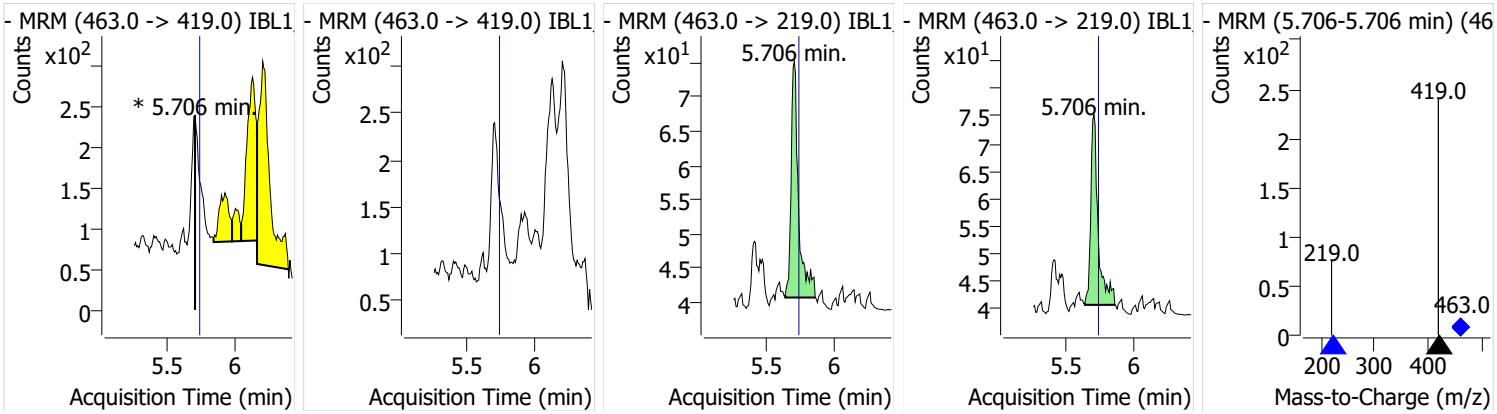

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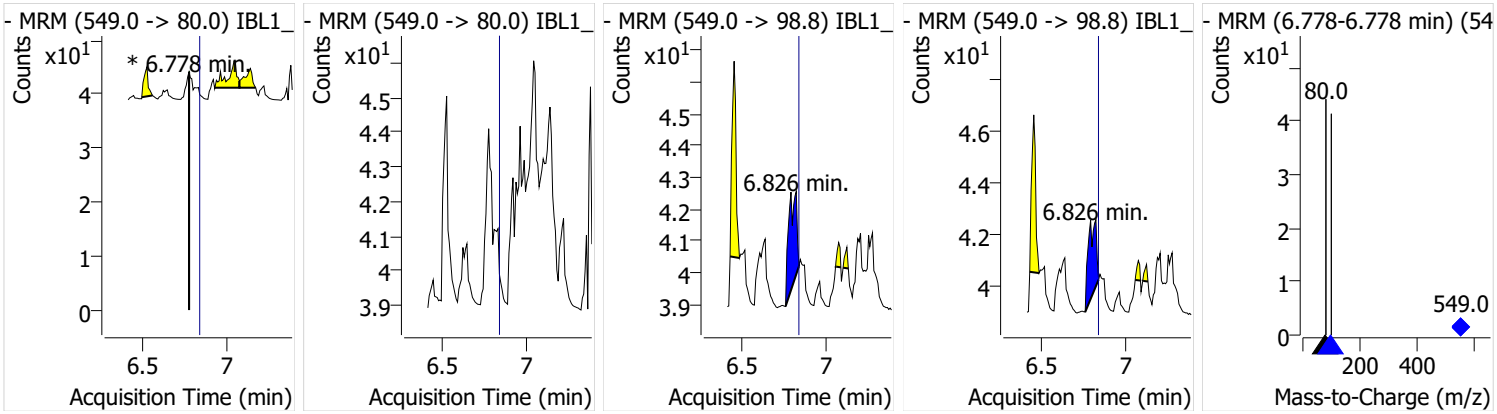

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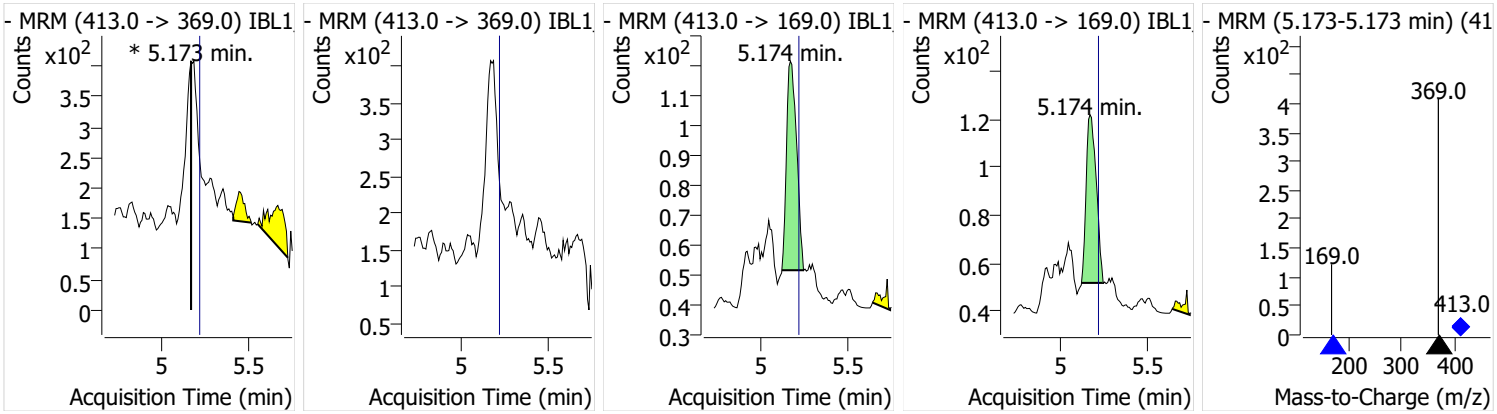

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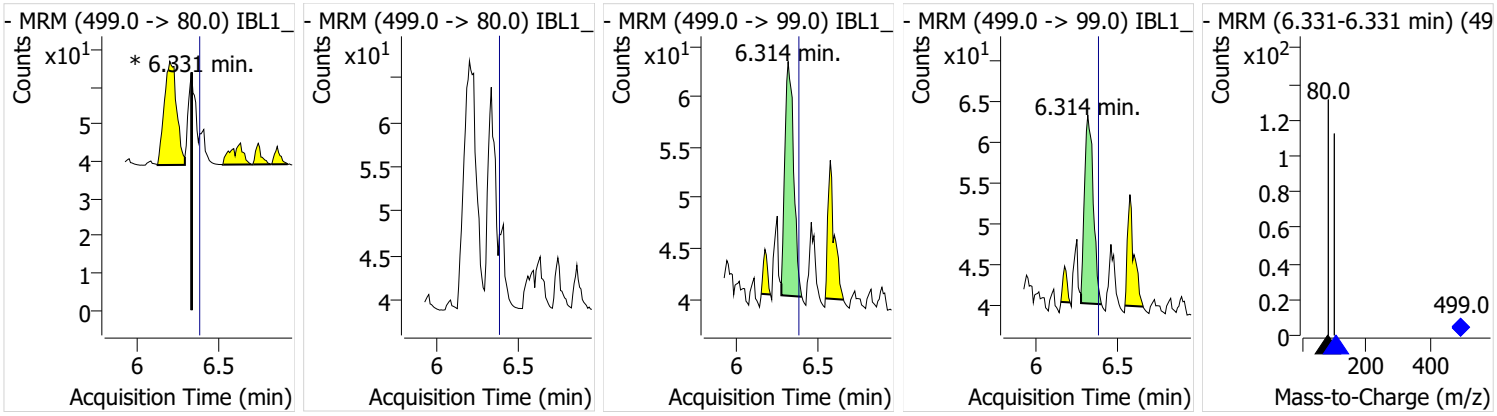

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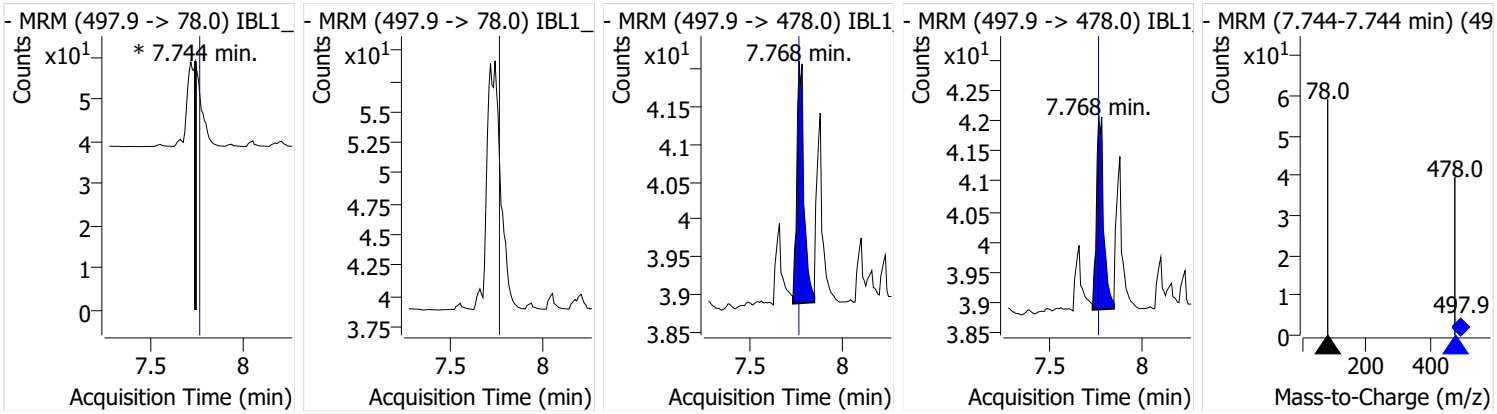

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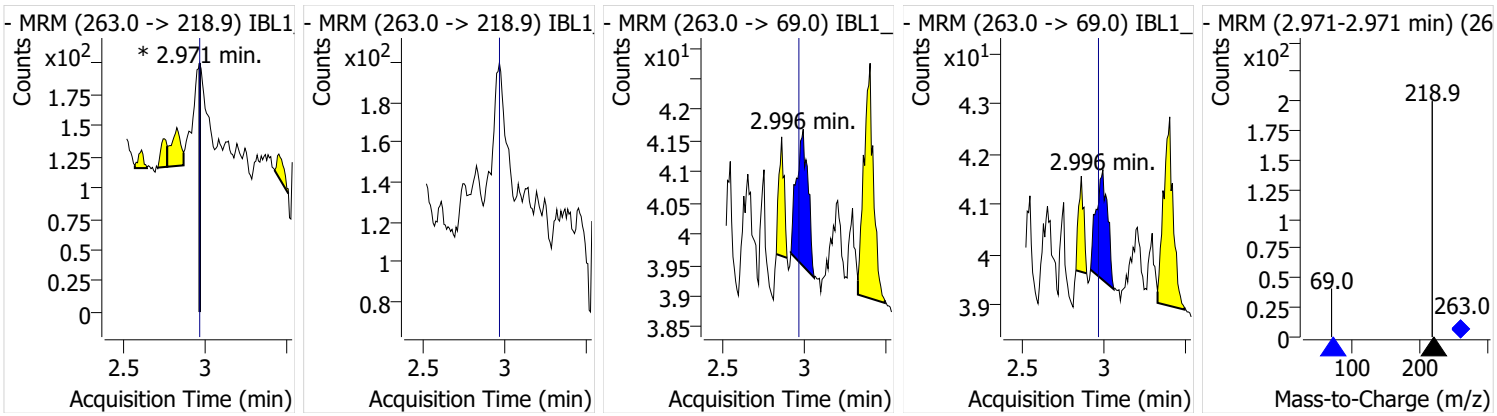

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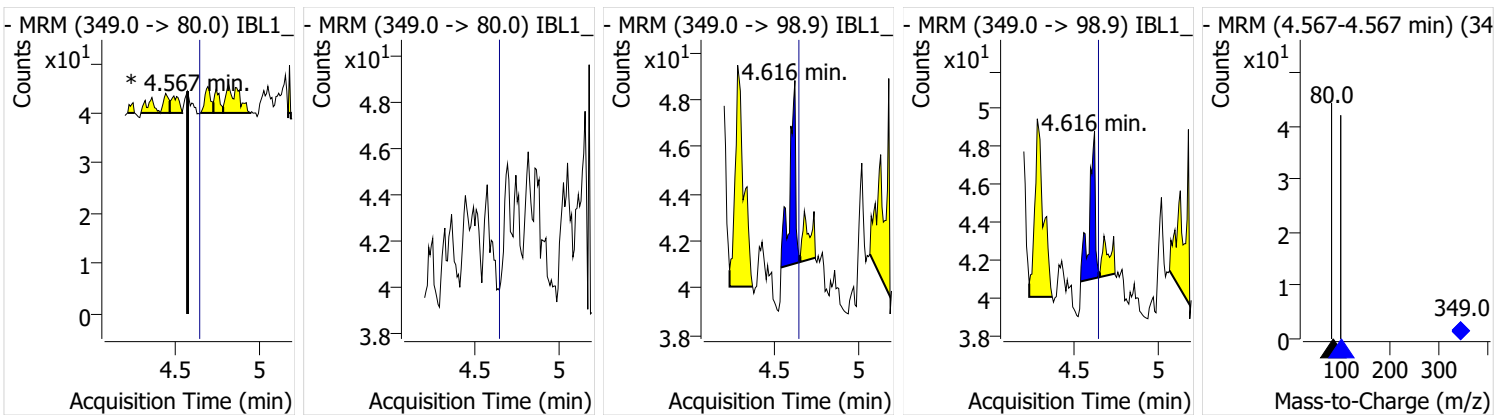

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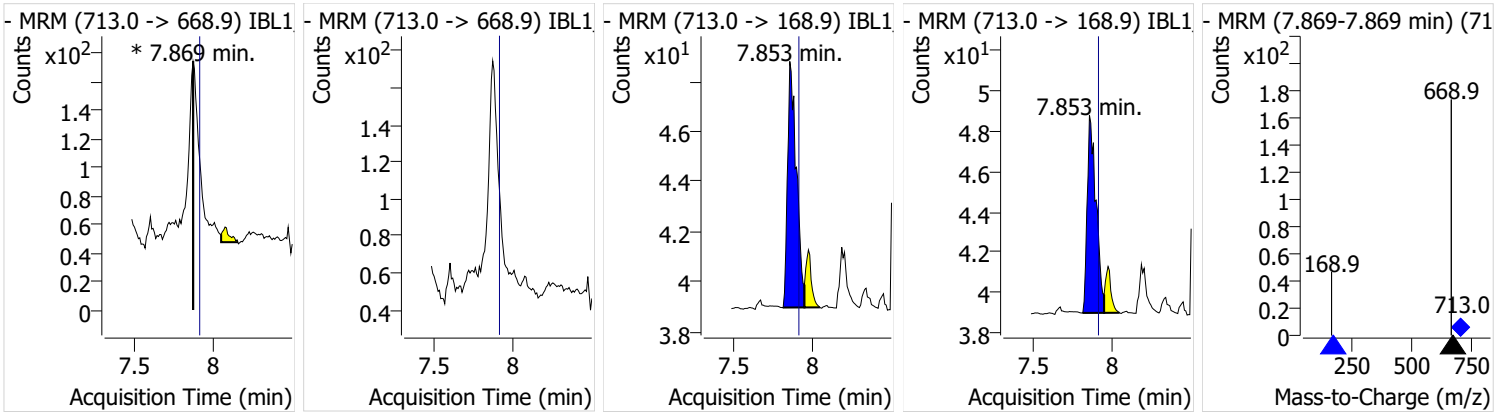

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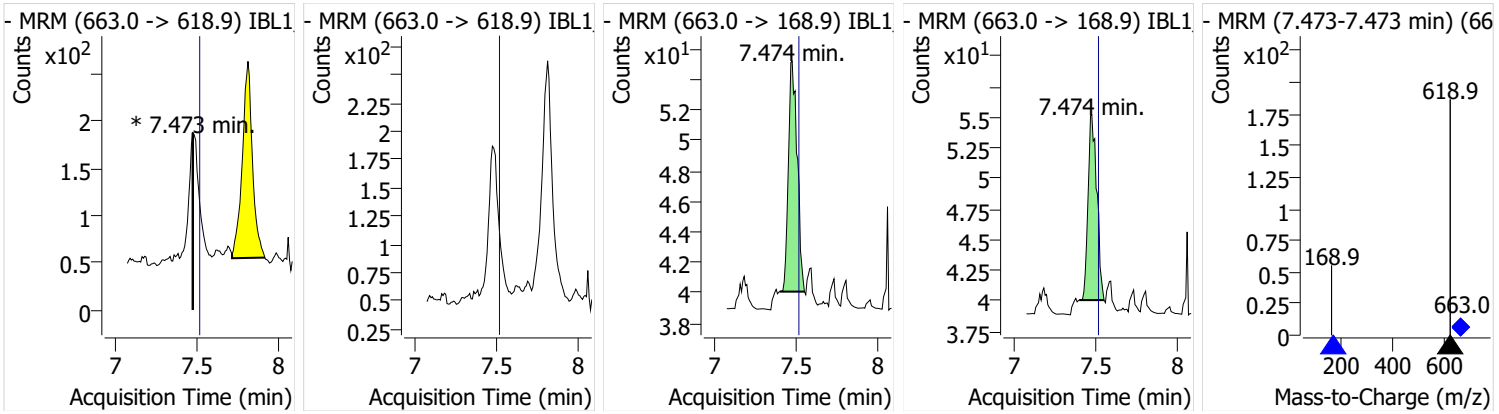

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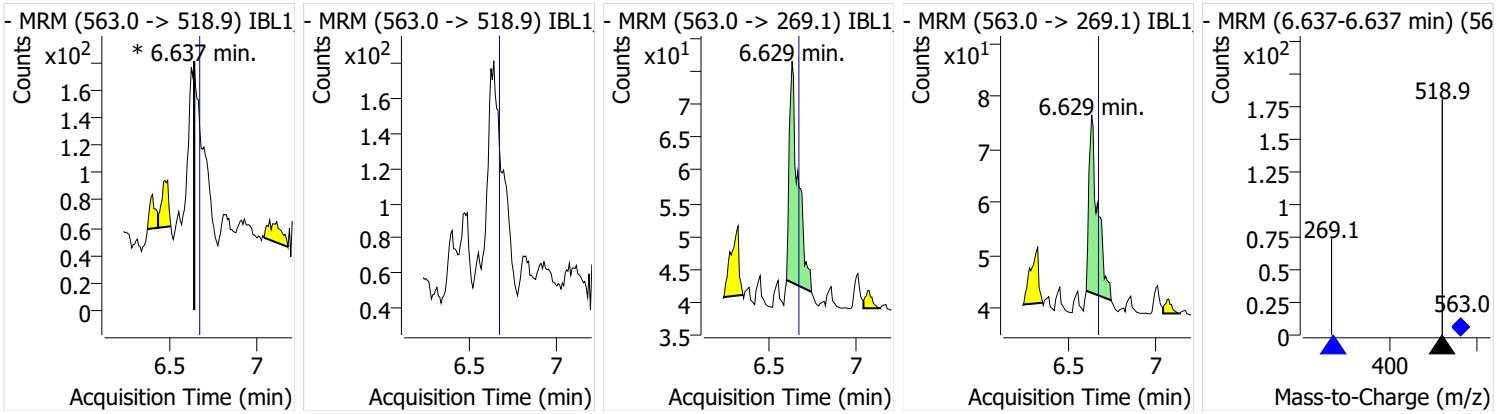

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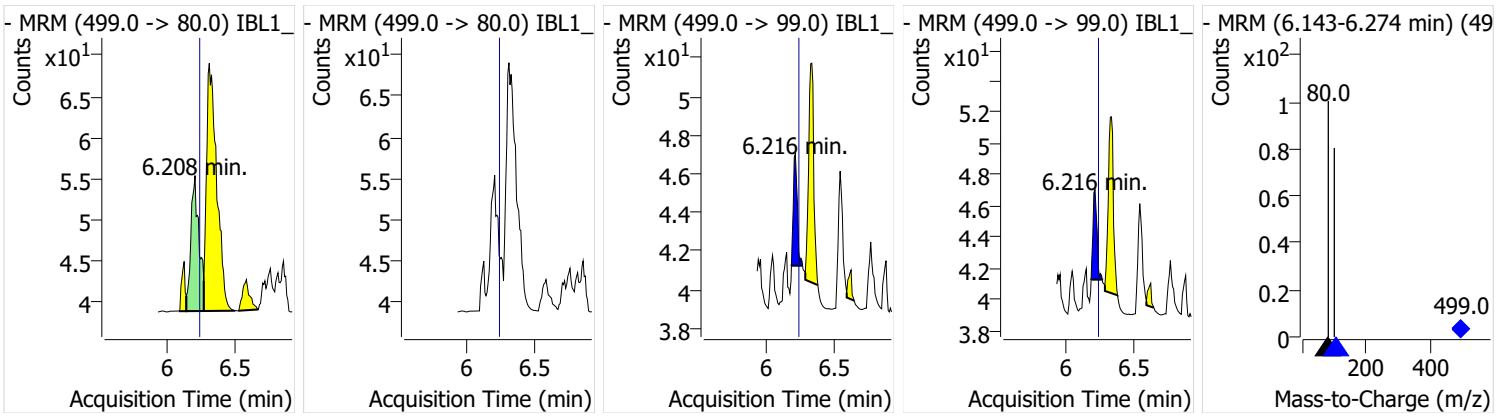

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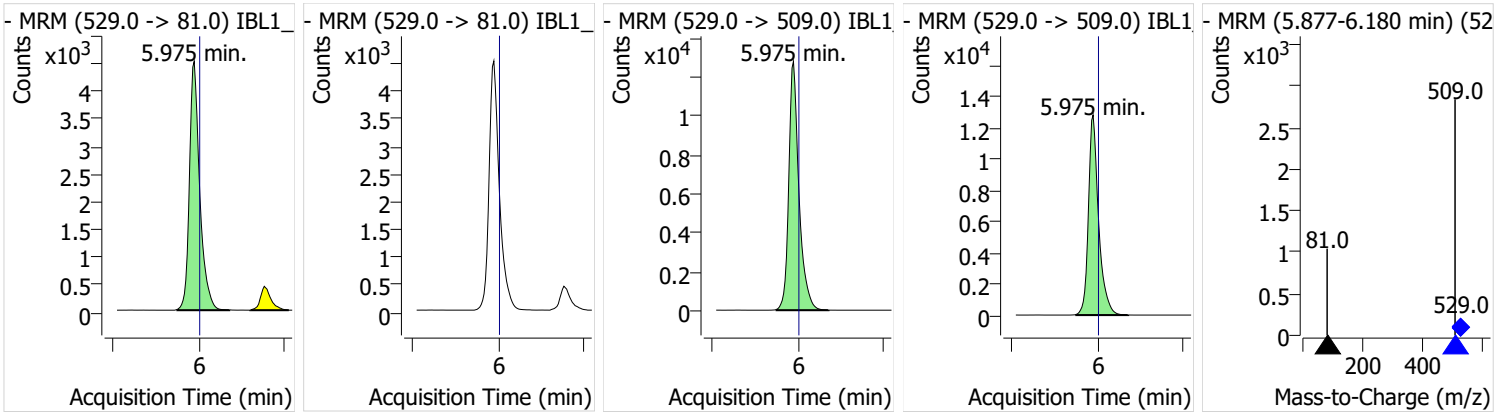

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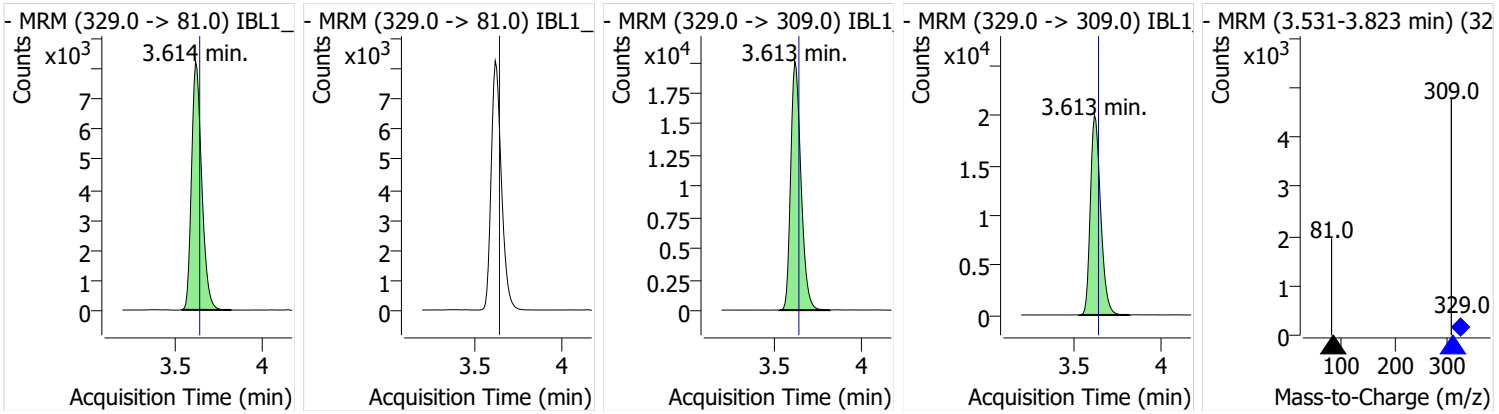

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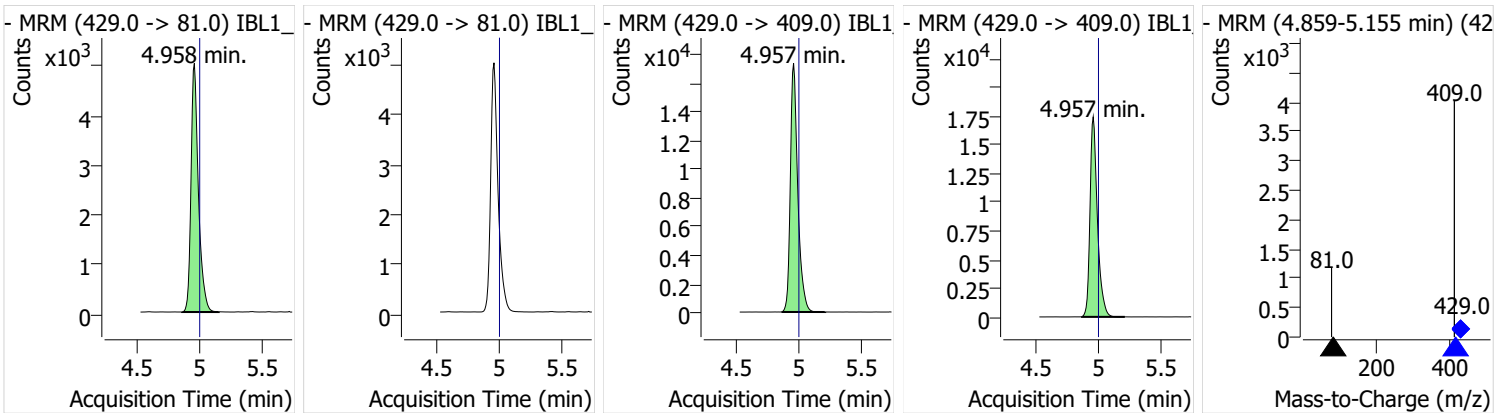

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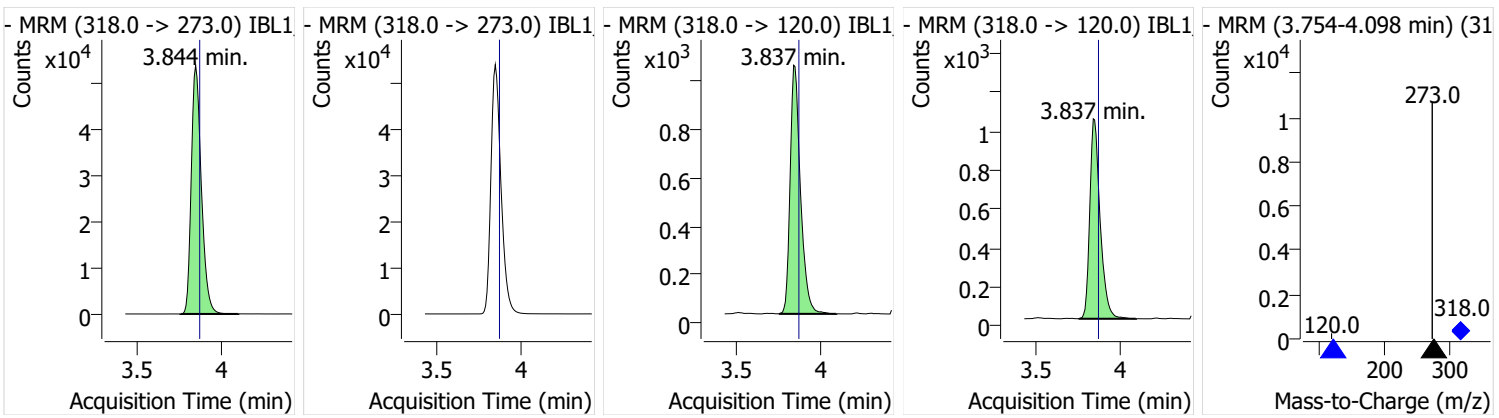

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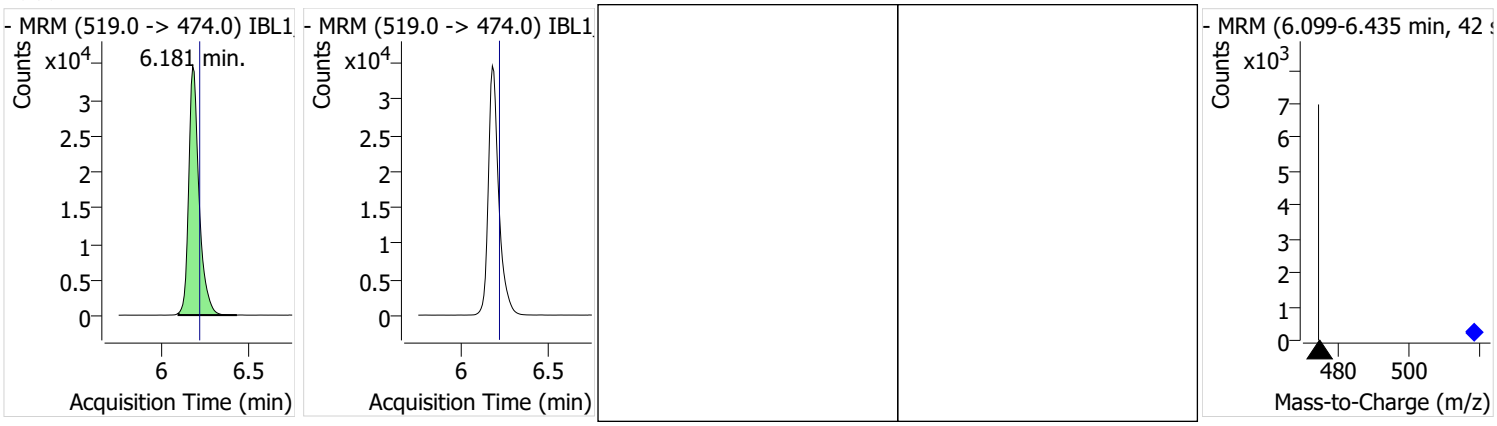

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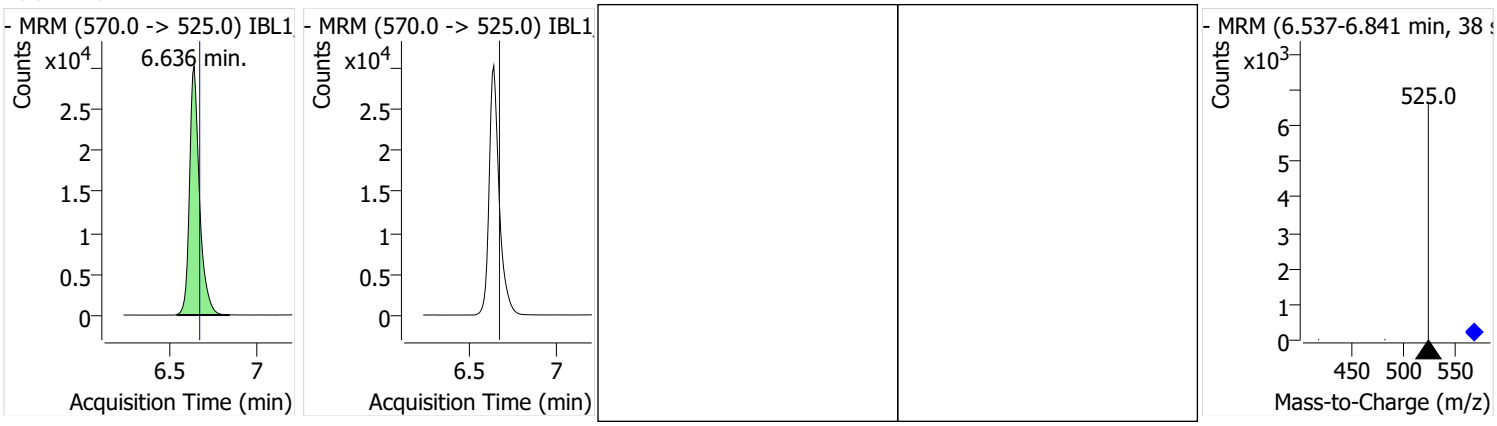

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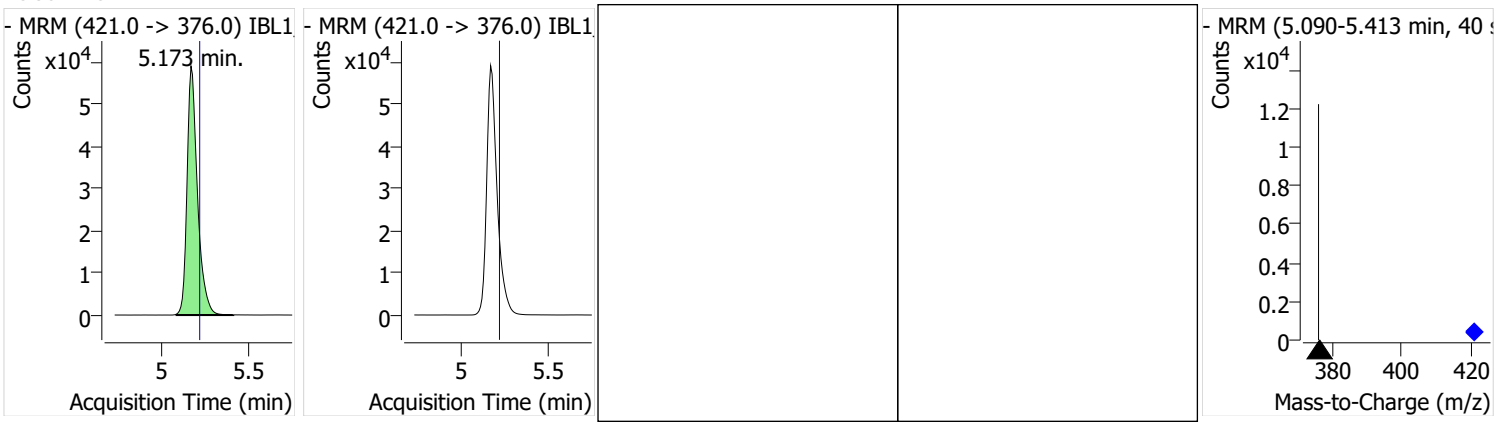

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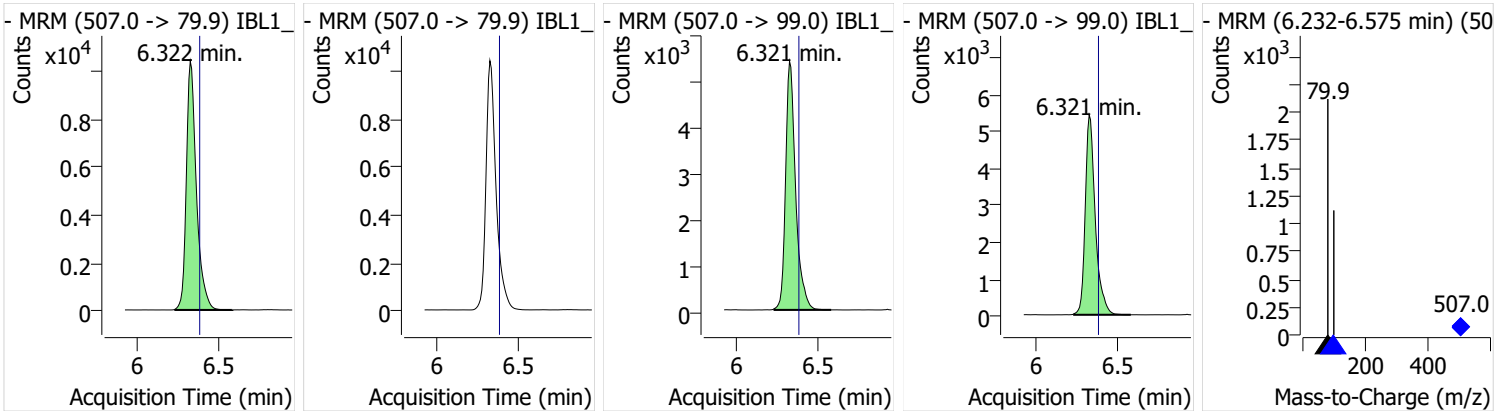

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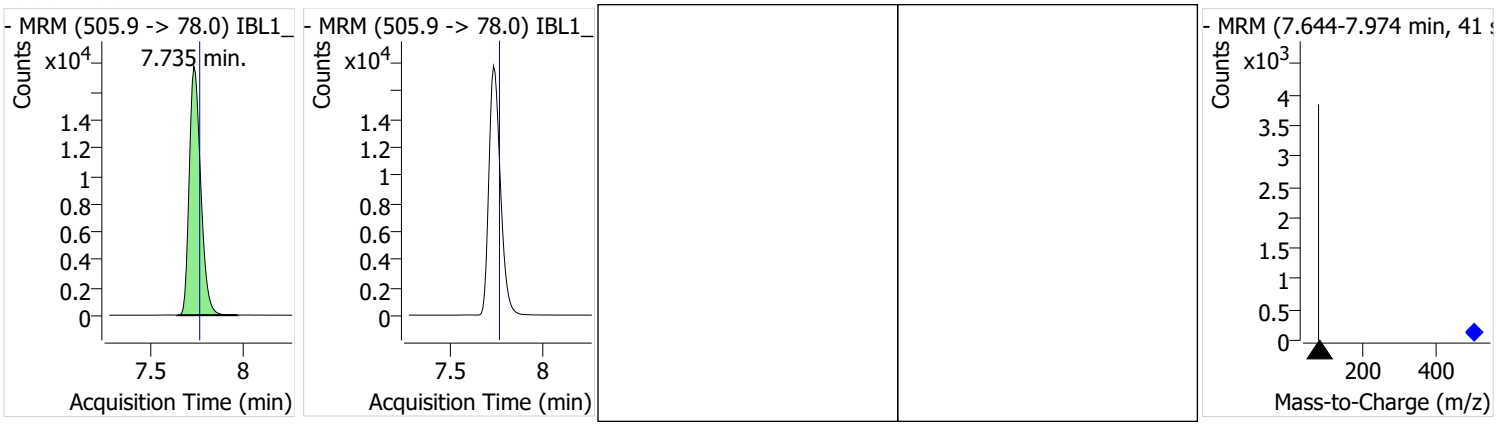

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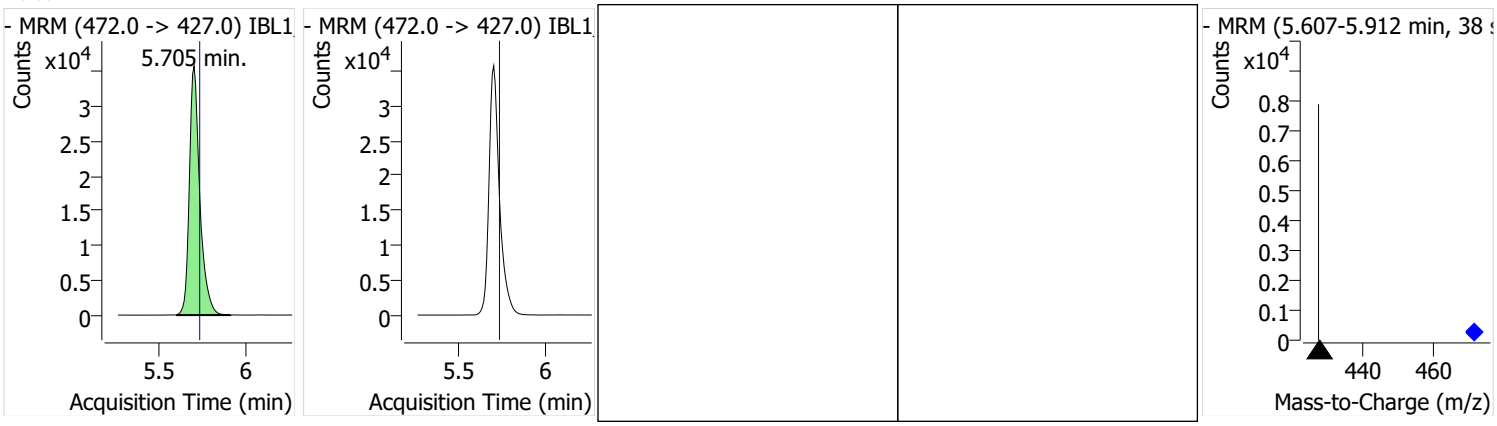
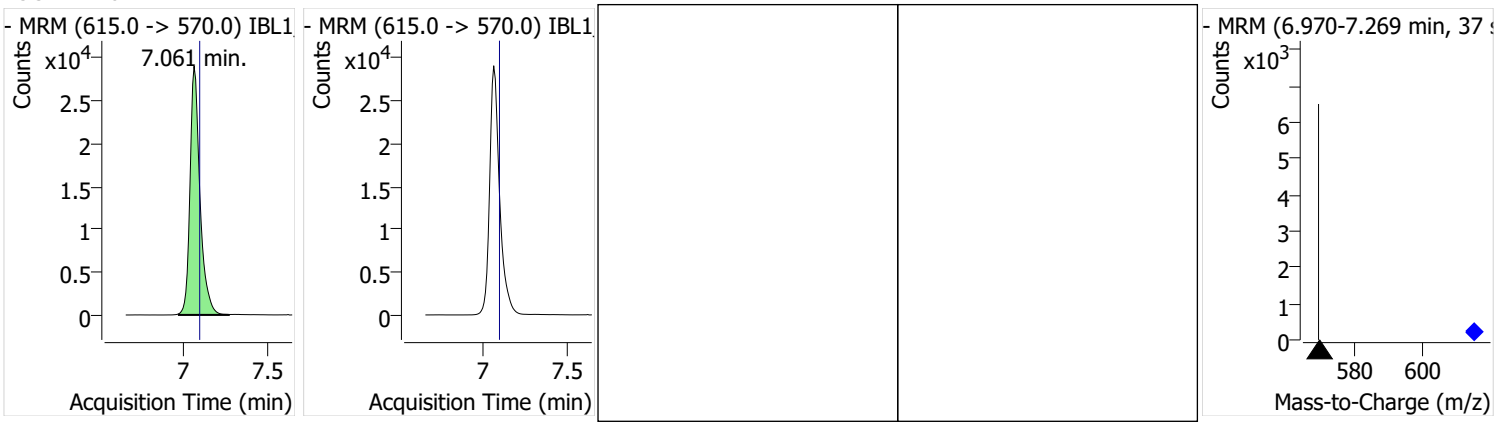


13C5-PFPeA

13C2-PFDoA



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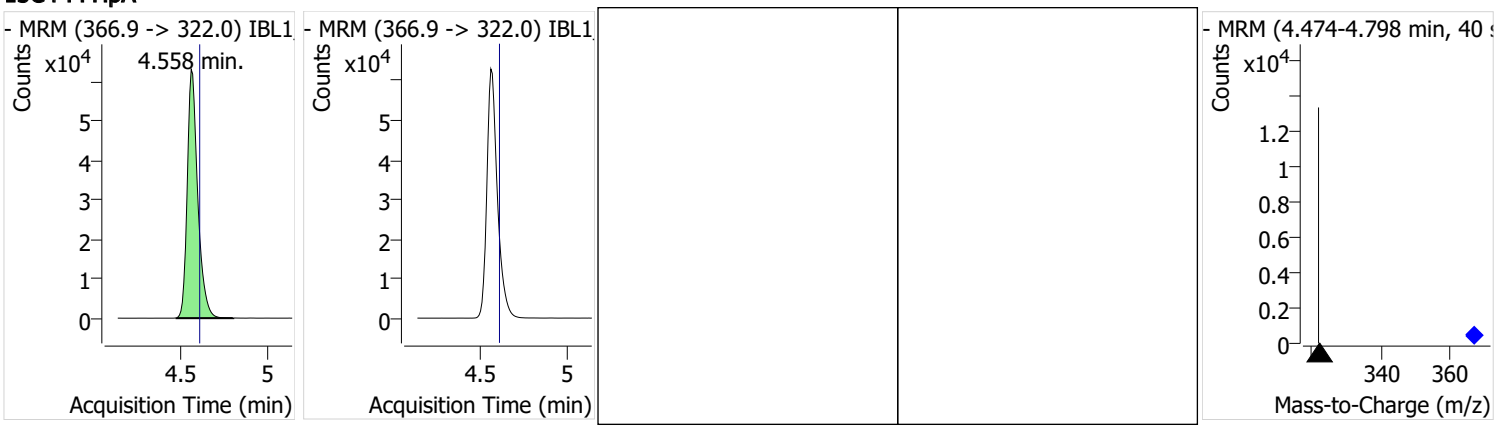

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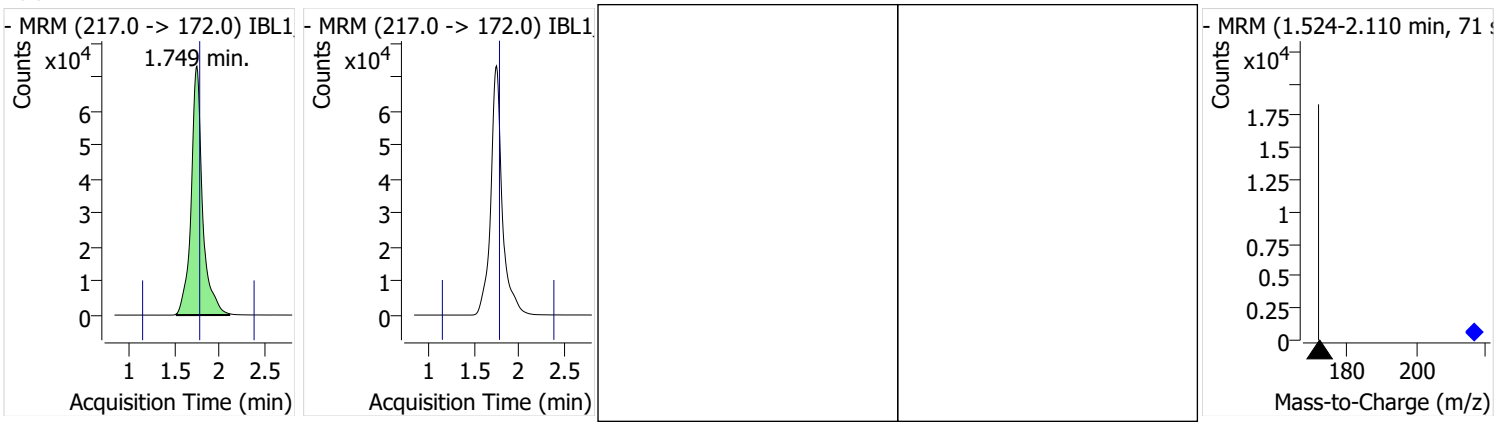

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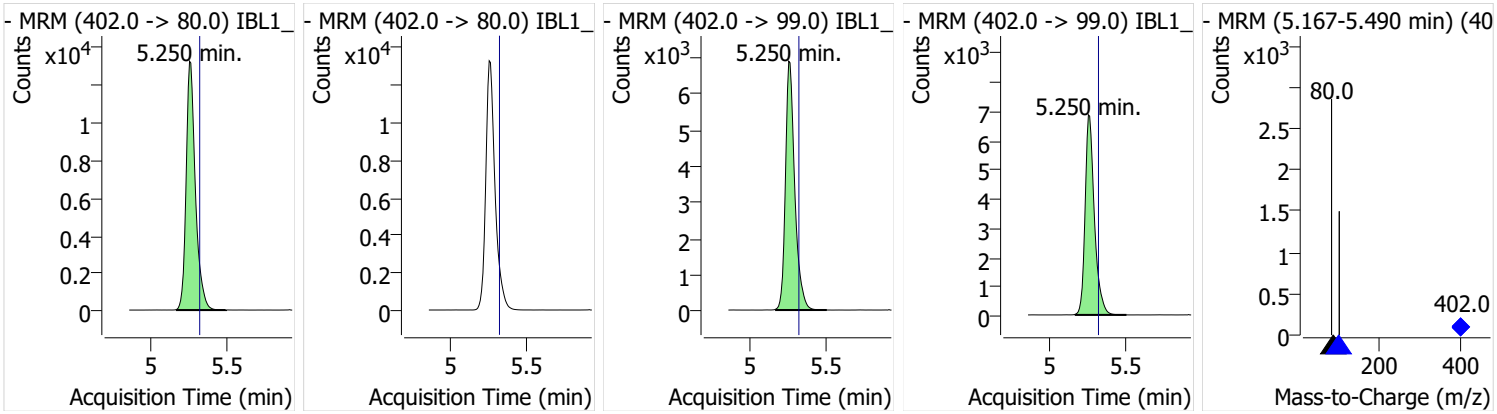

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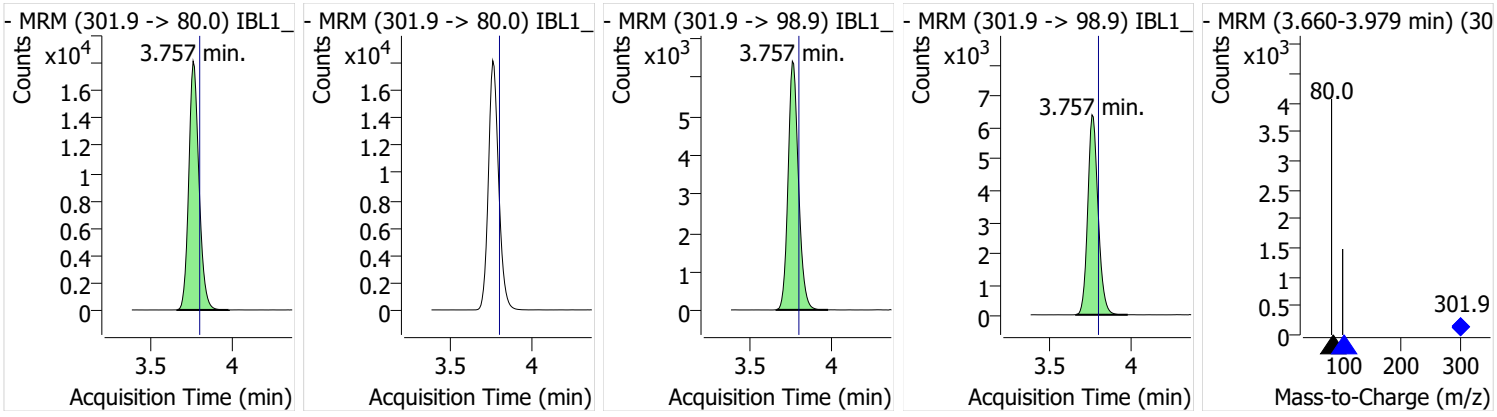

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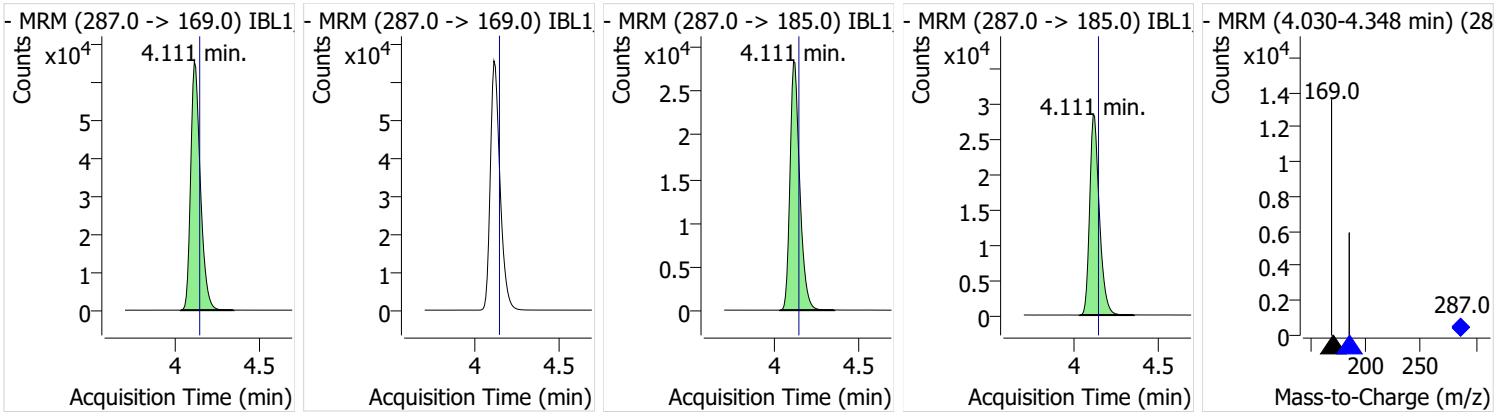

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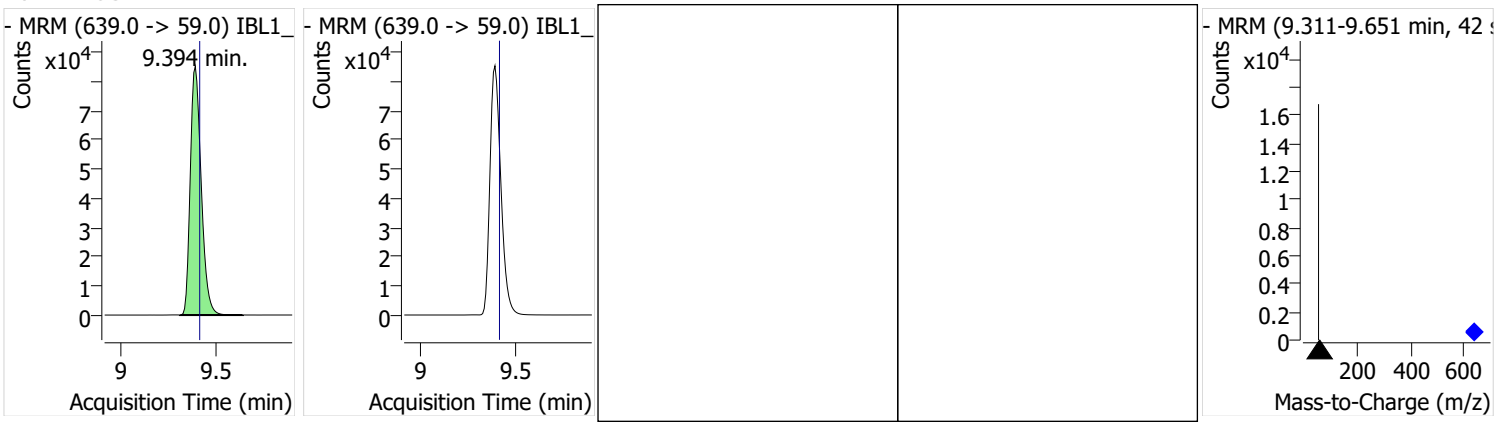

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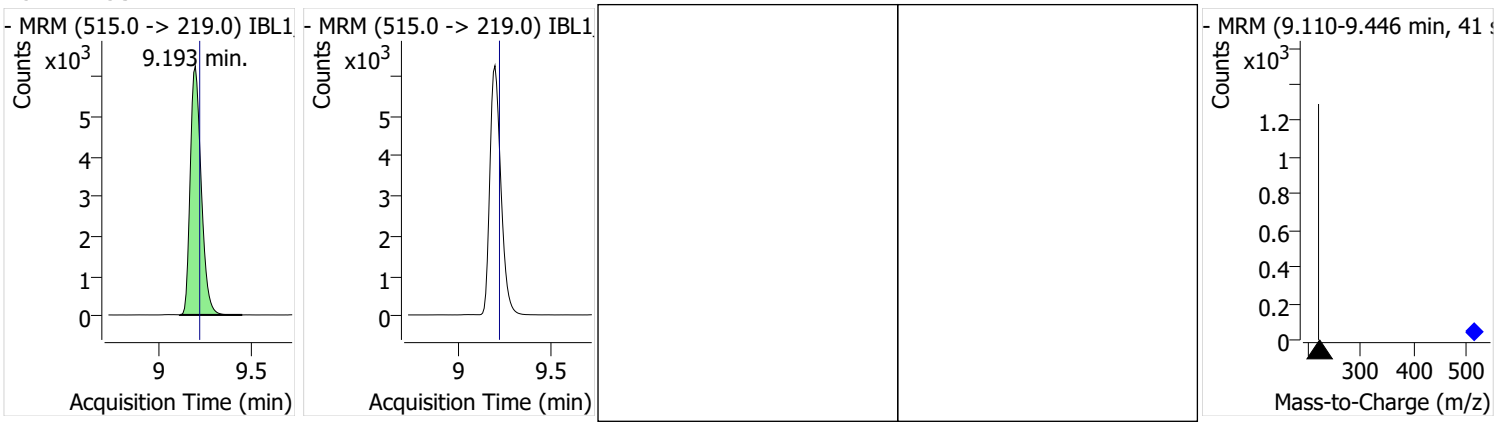

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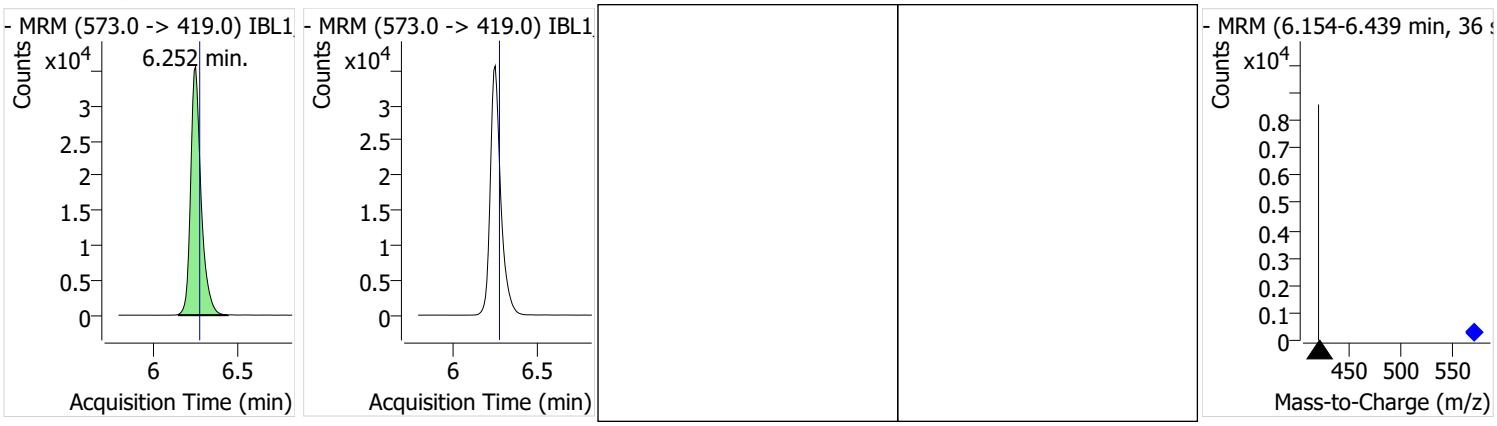
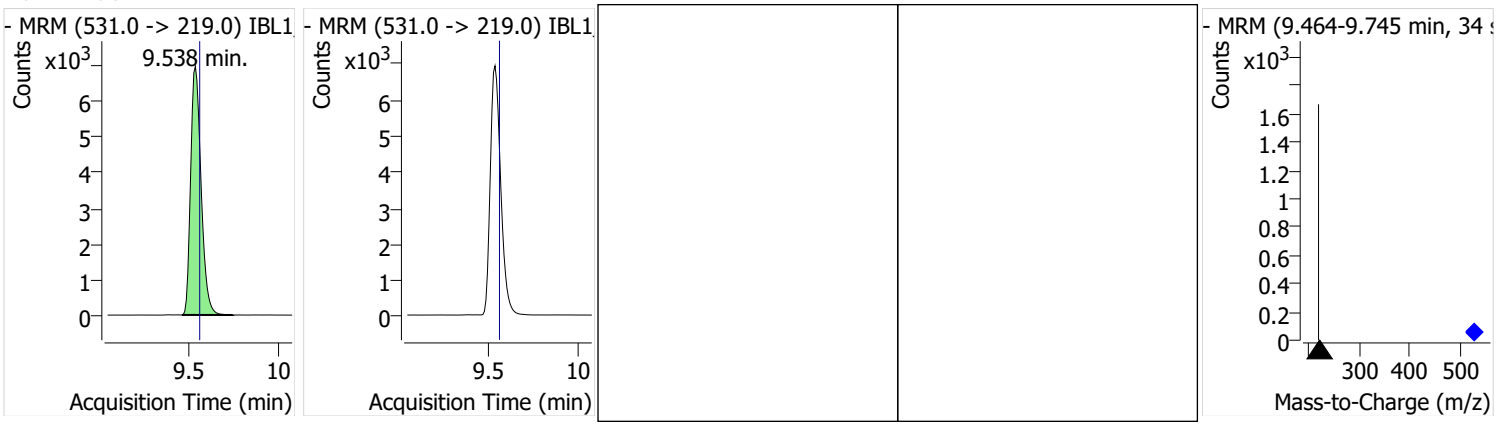
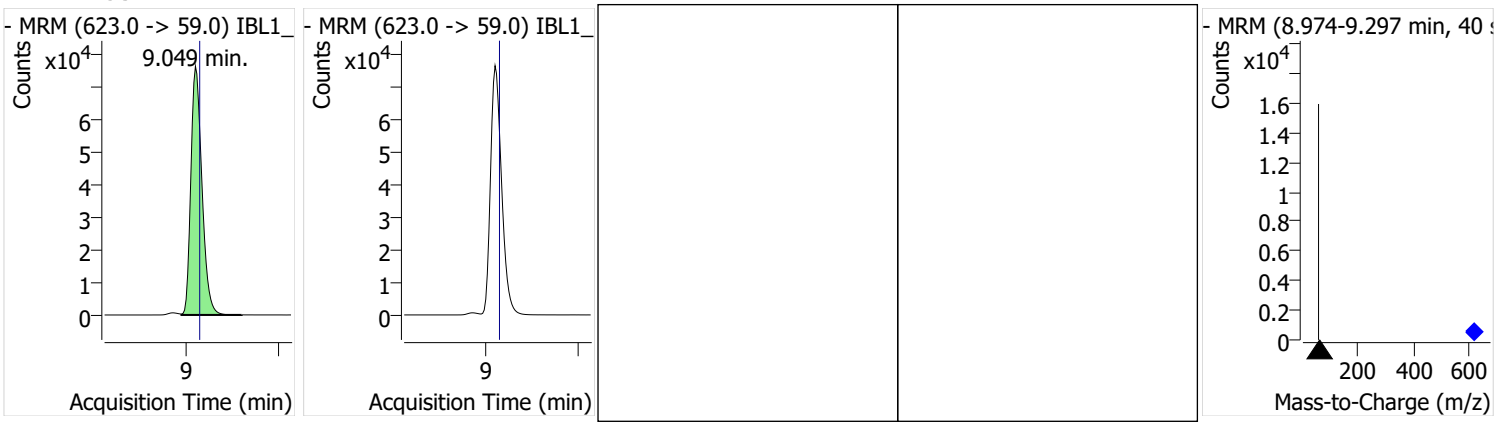


D5-NEtFOSA



D5-NEtFOSAA

D7-NMeFOSE



1 - FORM I
ANALYSIS DATA SHEET

Instrument Blank

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Water	Laboratory ID:	S105135-IBL1	File ID:	IBL1_1633_052824.d
Sampled:		Prepared:	05/28/24 00:00	Analyzed:	05/28/24 12:34
Solids:		Preparation:	B375132	Dilution:	
Batch:	S105135	Sequence:	S105135	Calibration:	2400593
Instrument:	QQQ5				
Column:	1				

CAS NO.	COMPOUND	CONC. (ng/mL)	MDL	RL	Q
375-22-4	Perfluorobutanoic acid (PFBA)		0.22	0.40	
2706-90-3	Perfluoropentanoic acid (PFPeA)		0.043	0.20	
307-24-4	Perfluorohexanoic acid (PFHxA)		0.024	0.10	
375-85-9	Perfluoroheptanoic acid (PFHpA)		0.027	0.10	
335-67-1	Perfluorooctanoic acid (PFOA)		0.026	0.10	
375-95-1	Perfluorononanoic acid (PFNA)		0.019	0.10	
335-76-2	Perfluorodecanoic acid (PFDA)		0.021	0.10	
2058-94-8	Perfluoroundecanoic acid (PFUnA)		0.020	0.10	
307-55-1	Perfluorododecanoic acid (PFDoA)		0.020	0.10	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)		0.030	0.10	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	19.6	0.026	0.10	
375-73-5	Perfluorobutanesulfonic acid (PFBS)		0.021	0.10	
2706-91-4	Perfluoropentanesulfonic acid (PFPeS)		0.026	0.10	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)		0.028	0.10	
375-92-8	Perfluoroheptanesulfonic acid (PFHpS)		0.033	0.10	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	6.47	0.038	0.10	
68259-12-1	Perfluorononanesulfonic acid (PFNS)		0.025	0.10	
335-77-3	Perfluorodecanesulfonic acid (PFDS)		0.029	0.10	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)		0.029	0.10	
757124-72-4	1H,1H,2H,2H-Perfluorohexane sulfonic acid (		0.075	0.40	
27619-97-2	1H,1H,2H,2H-Perfluorooctane sulfonic acid ((		0.30	0.40	
39108-34-4	1H,1H,2H,2H-Perfluorodecane sulfonic acid (		0.11	0.40	
754-91-6	Perfluorooctanesulfonamide (PFOSA)		0.023	0.10	
31506-32-8	N-methyl perfluoroocatnesulfonamide (NMeF		0.033	0.10	
4151-50-2	N-ethyl perfluorooctanesulfonamide (NEtFOS		0.034	0.10	
2355-31-9	N-MeFOSAA (NMeFOSAA)		0.036	0.10	
2991-50-6	N-EtFOSAA (NEtFOSAA)		0.040	0.10	
24448-09-7	N-methylperfluorooctanesulfonamidoethanol(	111	0.27	1.0	
1691-99-2	N-ethylperfluorooctanesulfonamidoethanol (N	123	0.27	1.0	
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPC		0.10	0.40	

1 - FORM I
ANALYSIS DATA SHEET

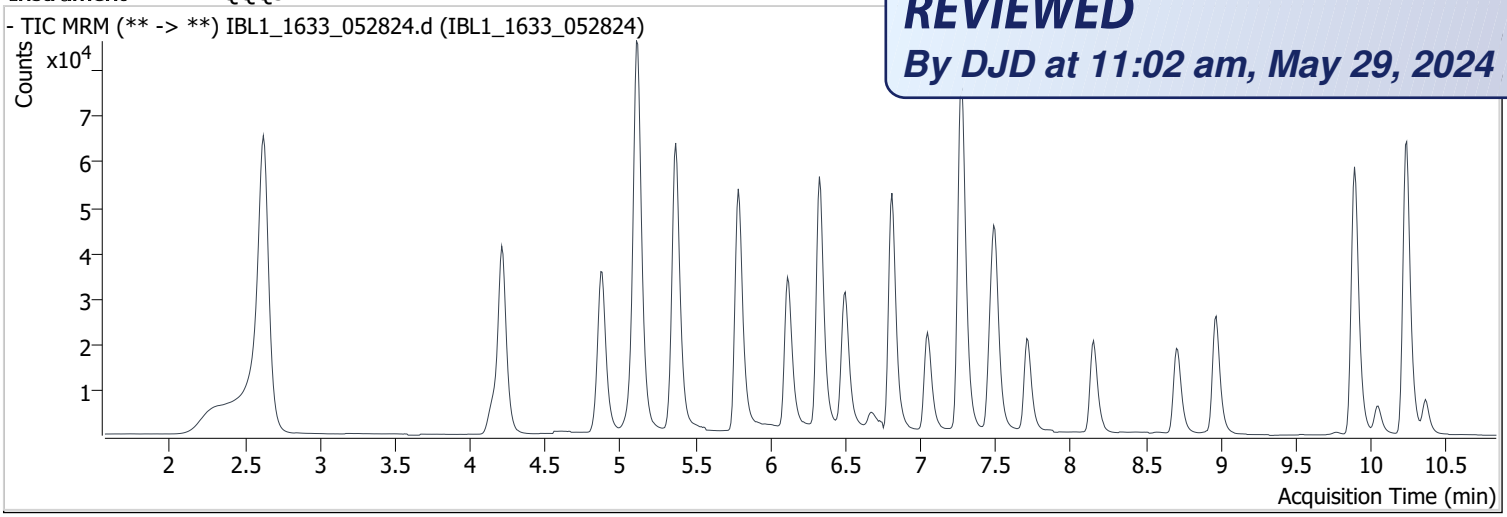
Instrument Blank

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Water	Laboratory ID:	S105135-IBL1	File ID:	IBL1_1633_052824.d
Sampled:		Prepared:	05/28/24 00:00	Analyzed:	05/28/24 12:34
Solids:		Preparation:	B375132	Dilution:	
Batch:	S105135	Sequence:	S105135	Calibration:	2400593
Instrument:	QQQ5				
Column:	1				

CAS NO.	COMPOUND	CONC. (ng/mL)	MDL	RL	Q
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADON/		0.082	0.40	
756426-58-1	9Cl-PF3ONS (F53B Minor)		0.096	0.40	
763051-92-9	11Cl-PF3OUdS (F53B Major)	8.80	0.11	0.40	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)(3:3		0.22	1.0	
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)	222	1.1	5.0	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)(7:3	688	0.95	5.0	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEE		0.035	0.20	
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)		0.056	0.20	
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)		0.054	0.20	
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)		0.055	0.20	

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\1633_CAL.batch.bin		
Analysis Time	5/29/2024 8:19 AM	**Last Calib Update**	5/29/2024 8:19 AM
Acq. Time	5/28/2024 12:34 PM	**Data File**	IBL1_1633_052824.d
Sample Type	Sample	**Sample Name**	IBL1_1633_052824
Dilution	1	**Acq. Method**	1633_ACQUISITION.m
Sample Comment	E#24E0527	**Processing method**	1633_050624.m
Instrument	QQQ5		

REVIEWED
By DJD at 11:02 am, May 29, 2024



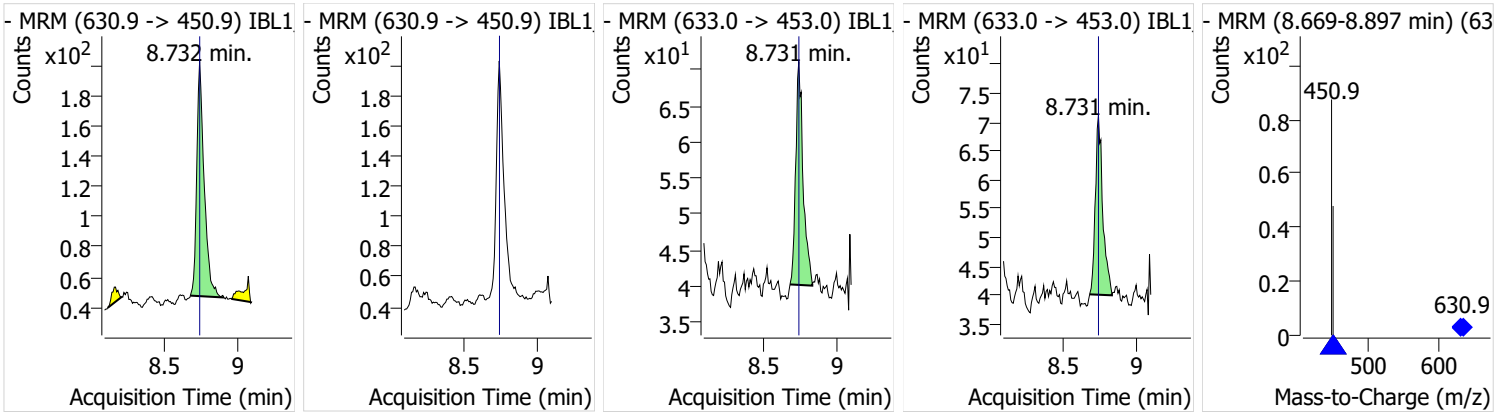
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
11Cl-PF3OUdS	8.732	546	83.90		13C3-HFPODA - ISTD	5.375	163956	0.0088	ng/ml			
633.0 -> 453.0			33.29	19.9								
3:3FTCA	3.741	0			13C5-PFPeA - ISTD	4.212	187823	-	ng/ml	✔	1	AMS 05/29/24
241.0 -> 117.0				*								
4:2FTS	4.838	0			13C2-4:2FTS - ISTD	4.870	37458	-	ng/ml	✔	1	AMS 05/29/24
327.0 -> 80.9				*								
5:3FTCA	5.493	1613	91.90		13C5-PFHxA - ISTD	5.109	141603	0.2218	ng/ml			
341.0 -> 217.0			101.72	82.1								
6:2FTS	6.098	0			13C2-6:2FTS - ISTD	6.114	28076	-	ng/ml	✔	1	AMS 05/29/24
427.0 -> 80.9				*								
7:3FTCA	6.674	6266	264.84		13C5-PFHxA - ISTD	5.109	141603	0.6881	ng/ml			
441.0 -> 317.0			396.90	81.4								
8:2FTS	7.039	0			13C2-8:2FTS - ISTD	7.047	25275	-	ng/ml	✔	1	AMS 05/29/24
527.0 -> 81.0				*								
9Cl-PF3ONS	7.859	0			13C3-HFPODA - ISTD	5.375	163956	-	ng/ml	✔	1	AMS 05/29/24
533.0 -> 353.0				*								
ADONA	6.004	0			13C3-HFPODA - ISTD	5.375	163956	-	ng/ml	✔	1	AMS 05/29/24
377.0 -> 85.1				*								
HFPO-DA	5.360	0			13C3-HFPODA - ISTD	5.375	163956	-	ng/ml	✔	1	AMS 05/29/24
285.0 -> 184.9				*								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
NEtFOSA	10.381	0			D5-NEtFOSA - ISTD	10.362	22375	-	ng/ml	✔	1	AMS 05/29/24
526.0 -> 219.0				*								
NEtFOSAA	7.470	0			D5-NEtFOSAA - ISTD	7.469	75716	-	ng/ml	✔	1	AMS 05/29/24
584.0 -> 526.0				*								
NEtFOSE	10.253	1279	234.90		D9-NEtFOSE - ISTD	10.236	226996	0.1227	ng/ml			
NFDHA	5.040	0			13C5-PFHxA - ISTD	5.109	141603	-	ng/ml	✔	1	AMS 05/29/24
295.0 -> 85.0				*								
NMeFOSA	10.053	0			D3-NMeFOSA - ISTD	10.051	21007	-	ng/ml	✔	1	AMS 05/29/24
512.0 -> 219.0				*								
NMeFOSAA	7.283	0			D3-NMeFOSAA - ISTD	7.274	153322	-	ng/ml	✔	1	AMS 05/29/24
570.0 -> 418.9				*								
NMeFOSE	9.915	1049	281.34		D7-NMeFOSE - ISTD	9.890	211570	0.1107	ng/ml			
PFBA	2.662	0			13C4-PFBA - ISTD	2.623	248856	-	ng/ml	✔	1	AMS 05/29/24
PFBS	5.048	0			13C3-PFBS - ISTD	5.120	61277	-	ng/ml	✔	1	AMS 05/29/24
298.9 -> 98.8				*								
PFDA	7.204	0			13C6-PFDA - ISTD	7.269	72332	-	ng/ml	✔	1	AMS 05/29/24
513.0 -> 219.0				*								
PFDoA	8.153	0			13C2-PFDoA - ISTD	8.153	71270	-	ng/ml	✔	1	AMS 05/29/24
613.0 -> 319.0				*								
PFDoS	9.189	0			13C8-PFOS - ISTD	7.500	37829	-	ng/ml	✔	1	AMS 05/29/24
698.9 -> 99.0				*								
PFDS	8.436	0			13C8-PFOS - ISTD	7.500	37829	-	ng/ml	✔	1	AMS 05/29/24
599.0 -> 98.8				*								
PFEESA	5.519	0			13C5-PFHxA - ISTD	5.109	141603	-	ng/ml	✔	1	AMS 05/29/24
315.0 -> 83.0				*								
PFHpA	5.789	0			13C4-PFHpA - ISTD	5.789	187468	-	ng/ml	✔	1	AMS 05/29/24
362.9 -> 169.0				*								
PFHpS	7.019	0			13C8-PFOS - ISTD	7.500	37829	-	ng/ml	✔	1	AMS 05/29/24
449.0 -> 98.8				*								
PFHxA	5.103	0			13C5-PFHxA - ISTD	5.109	141603	-	ng/ml	✔	1	AMS 05/29/24
313.0 -> 118.9				*								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFHxS	6.521	0			13C3-PFHxS - ISTD	6.504	43340	-	ng/ml	✔	1	AMS 05/29/24
398.9 -> 99.0				*								
PFMBA	4.530	0			13C5-PFPeA - ISTD	4.212	187823	-	ng/ml	✔	1	AMS 05/29/24
PFMPA	3.432	0			13C5-PFPeA - ISTD	4.212	187823	-	ng/ml	✔	1	AMS 05/29/24
PFNA	6.796	0			13C9-PFNA - ISTD	6.812	83064	-	ng/ml	✔	1	AMS 05/29/24
463.0 -> 219.0				*								
PFNS	7.967	0			13C8-PFOS - ISTD	7.500	37829	-	ng/ml	✔	1	AMS 05/29/24
549.0 -> 98.8				*								
PFOA	6.337	0			13C8-PFOA - ISTD	6.328	173064	-	ng/ml	✔	1	AMS 05/29/24
413.0 -> 169.0				*								
PFOS	7.510	119	20.85		13C8-PFOS - ISTD	7.500	37829	0.0065	ng/ml			
499.0 -> 99.0			18.54	56.5								
PFOSA	8.702	0			13C8-PFOSA - ISTD	8.709	68617	-	ng/ml	✔	1	AMS 05/29/24
497.9 -> 478.0				*								
PFPeA	4.214	0			13C5-PFPeA - ISTD	4.212	187823	-	ng/ml	✔	1	AMS 05/29/24
263.0 -> 69.0				*								
PFPeS	5.857	0			13C3-PFHxS - ISTD	6.504	43340	-	ng/ml	✔	1	AMS 05/29/24
349.0 -> 98.9				*								
PFTeDA	8.967	1383	75.04		13C2-PFTeDA - ISTD	8.967	90917	0.0196	ng/ml			
713.0 -> 168.9			66.47	7.7								
PFTrDA	8.573	0			13C2-PFDoA - ISTD	8.153	71270	-	ng/ml	✔	1	AMS 05/29/24
663.0 -> 168.9				*								
PFUnA	7.710	0			13C7-PFUnA - ISTD	7.709	71291	-	ng/ml	✔	1	AMS 05/29/24
563.0 -> 269.1				*								
TDCA	6.121	11	5.44					-	ng/ml			
499.0 -> 99.0			2.97	***45.5**								
13C2-8:2FTS	7.046	50796	297734.40		18O2-PFHxS	6.504	40384	4.6058	ng/ml			
529.0 -> 81.0			8073.53	49.8								
13C2-4:2FTS	4.870	102746	21409.03		18O2-PFHxS	6.504	40384	4.9976	ng/ml			
329.0 -> 81.0			13928.51	36.5								
13C2-6:2FTS	6.113	88310	62495.53		18O2-PFHxS	6.504	40384	4.8326	ng/ml			
429.0 -> 81.0			7150.30	31.8								
13C5-PFHxA	5.109	141603	25342.95		13C2-PFHxA	5.110	123215	2.7124	ng/ml			

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
318.0 -> 120.0			297.37	1.7								
13C6-PFDA	7.269	72332	6209.96		13C2-PFDA	7.270	67929	1.3372	ng/ml			
13C7-PFUnA	7.709	71291	15963.45		13C2-PFDA	7.270	67929	1.4097	ng/ml			
13C8-PFOA	6.328	173064	29228.45		13C4-PFOA	6.329	18838	2.8078	ng/ml			
13C8-PFOS	7.500	37829	10567.99		13C4-PFOS	7.501	38125	2.6752	ng/ml			
507.0 -> 99.0			7727.30	53.2								
13C8-PFOSA	8.709	68617	736693.98		13C4-PFOS	7.501	38125	2.6854	ng/ml			
13C9-PFNA	6.812	83064	13633.41		13C5-PFNA	6.812	99034	1.3632	ng/ml			
13C5-PFPeA	4.212	187823	13542.52		13C2-PFHxA	5.110	123215	4.8518	ng/ml			
13C2-PFDoA	8.153	71270	12534.03		13C2-PFDA	7.270	67929	1.3655	ng/ml			
13C4-PFHpA	5.789	187468	27502.55		13C2-PFHxA	5.110	123215	2.7526	ng/ml			
13C4-PFBA	2.623	255449	30989.55		13C3-PFBA	2.625	108894	10.7384	ng/ml	✔	3	AMS 05/29/24
13C3-PFHxS	6.504	43340	7586.66		18O2-PFHxS	6.504	40384	2.6151	ng/ml			
402.0 -> 99.0			150178.84	53.3								
13C3-PFBS	5.120	61277	10862.36		18O2-PFHxS	6.504	40384	2.5551	ng/ml			
301.9 -> 98.9			11176.00	38.3								
13C3-HFPODA	5.375	163956	33308.39		13C2-PFHxA	5.110	123215	10.9505	ng/ml			
287.0 -> 185.0			6469.54	44.0								
13C2-PFTeDA	8.967	90917	25208.67		13C2-PFDA	7.270	67929	1.2917	ng/ml			
D9-NEtFOSE	10.236	226996	69299.05		13C4-PFOS	7.501	38125	27.4615	ng/ml			
D3-NMeFOSA	10.051	21007	12364.82		13C4-PFOS	7.501	38125	2.5166	ng/ml			
D3-NMeFOSAA	7.274	153322	45947.92		13C4-PFOS	7.501	38125	5.4113	ng/ml			
D5-NEtFOSA	10.362	22375	6846.06		13C4-PFOS	7.501	38125	2.6331	ng/ml			
D5-NEtFOSAA	7.469	75716	14870.24		13C4-PFOS	7.501	38125	5.3379	ng/ml			
D7-NMeFOSE	9.890	211570	164861.19		13C4-PFOS	7.501	38125	27.3889	ng/ml			

11Cl-PF3OUdS



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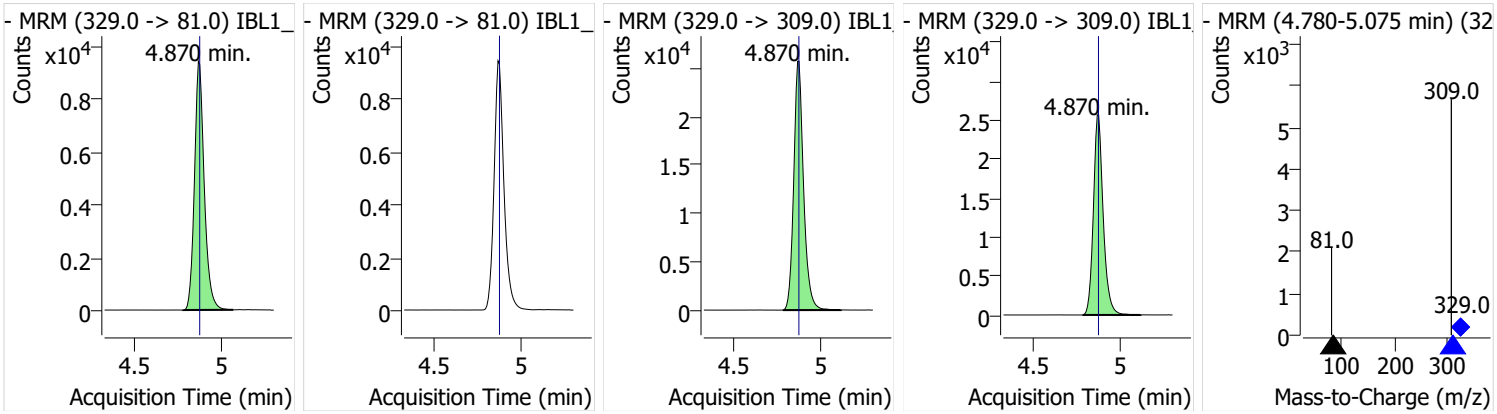

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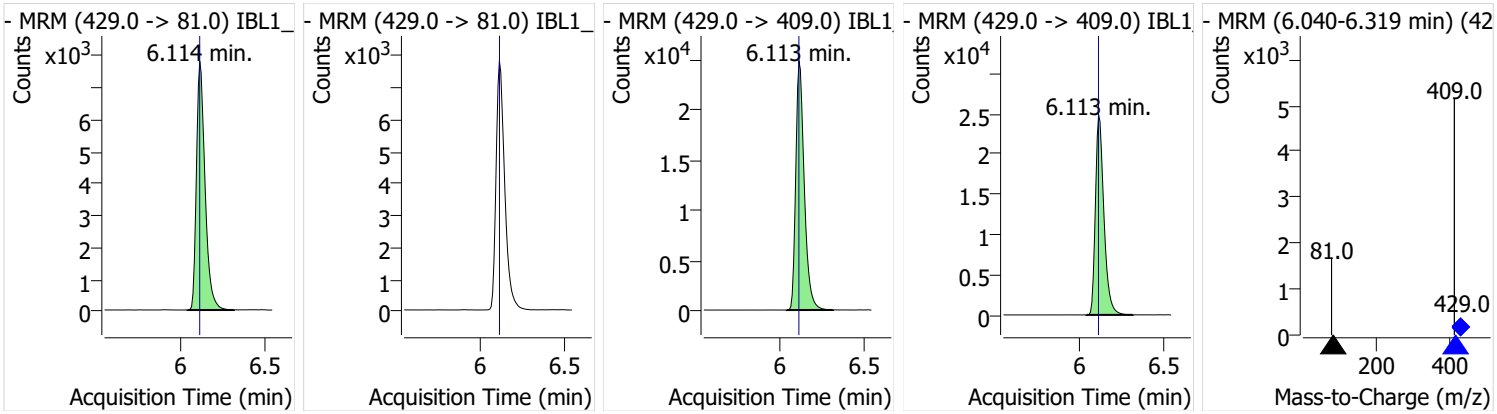

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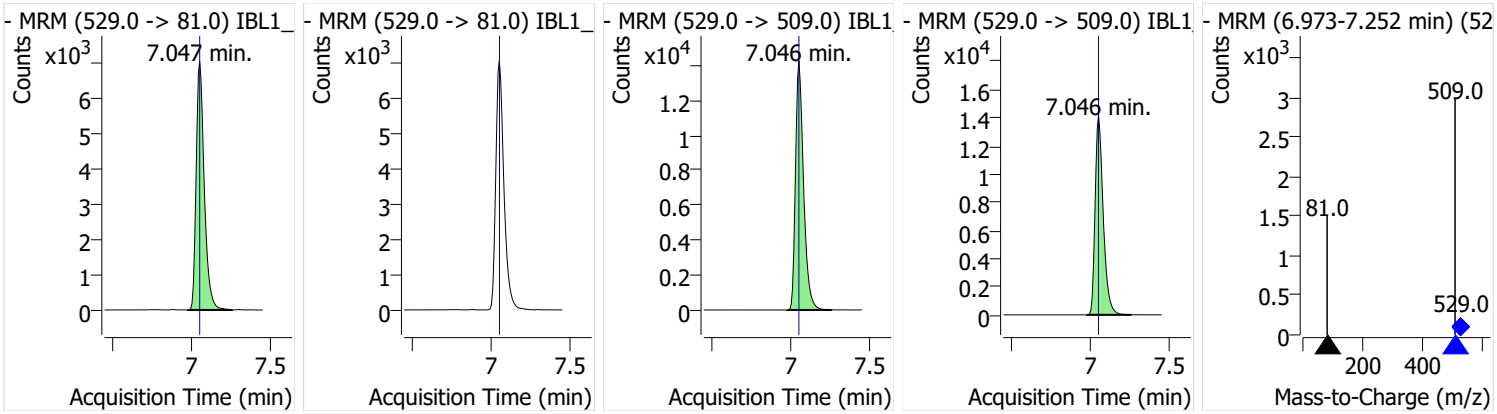
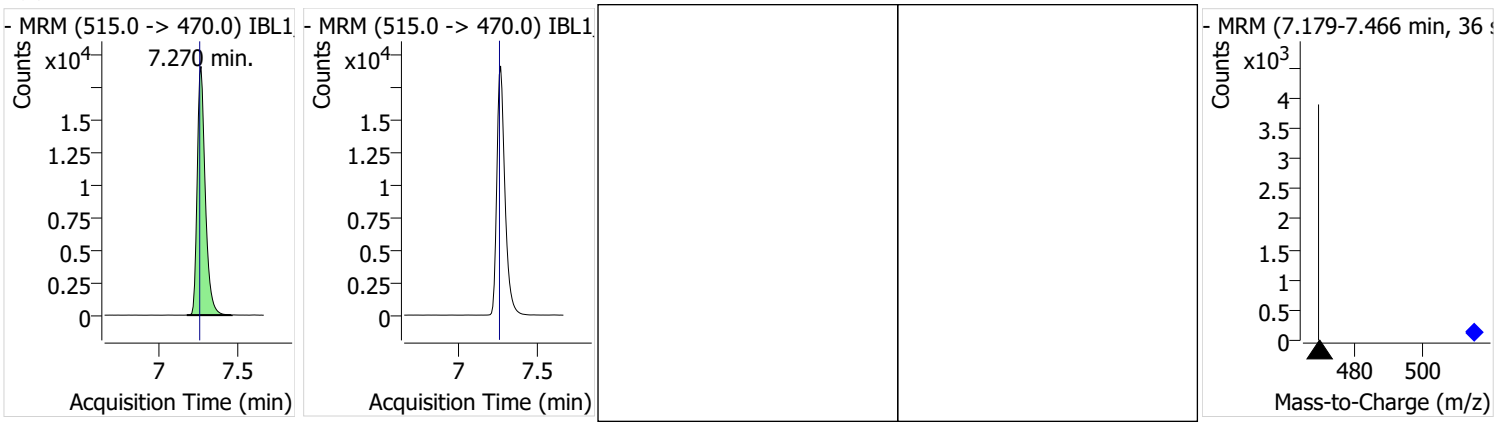
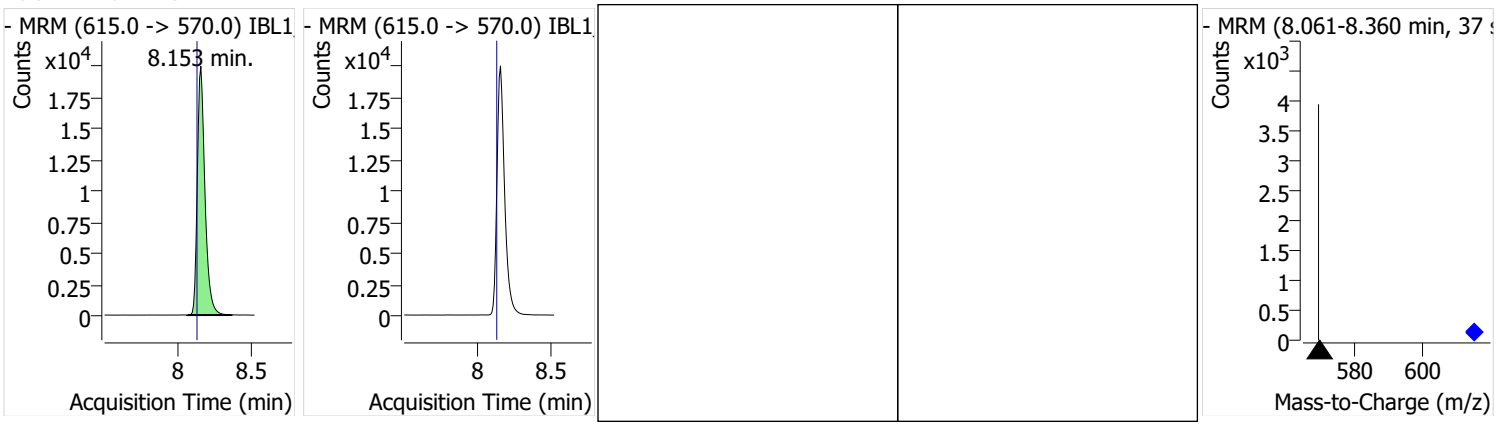


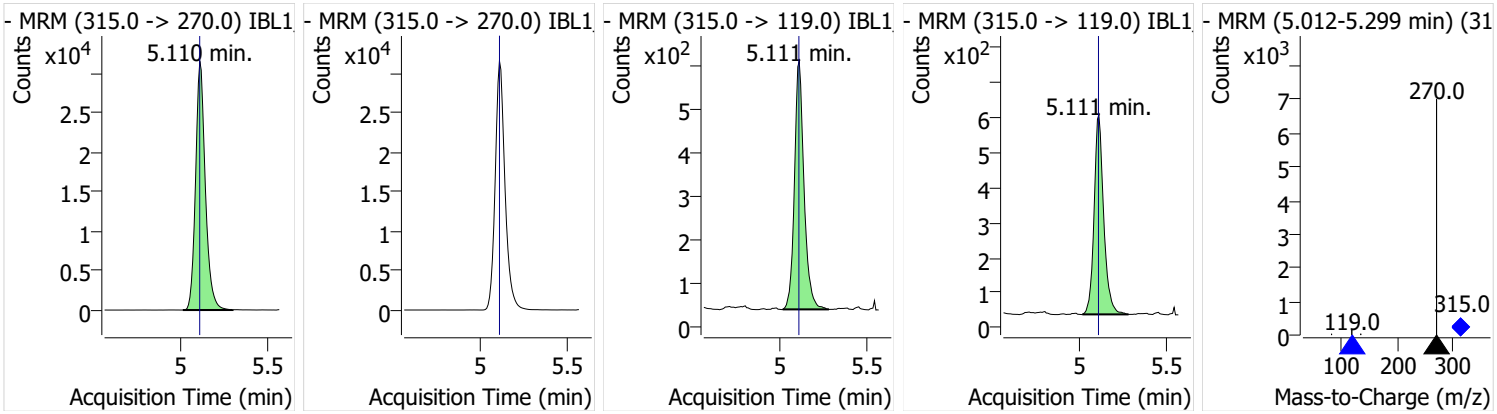
13C2-PFDA



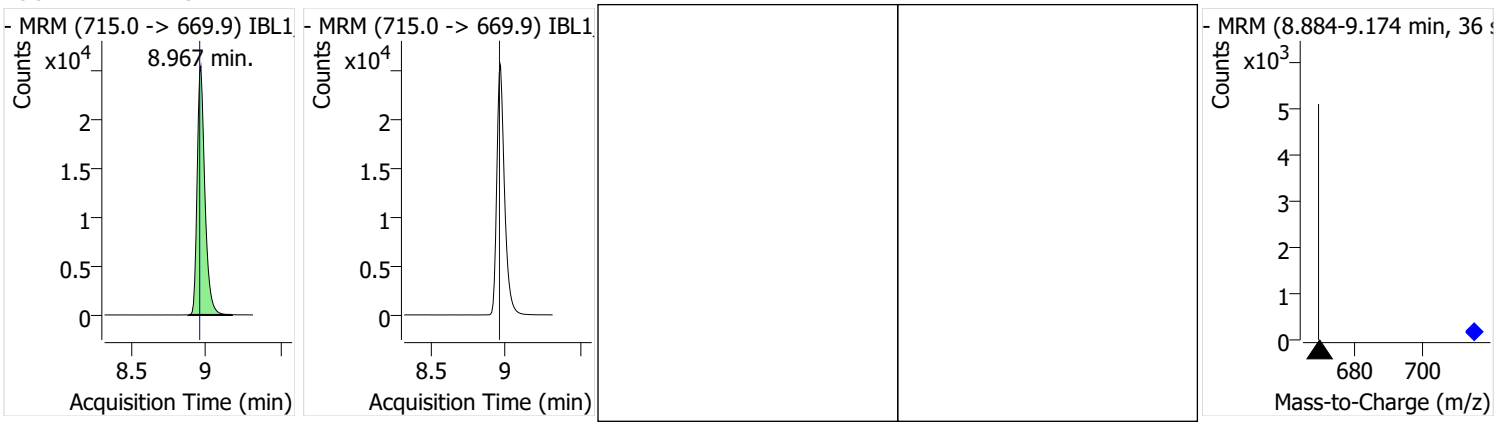
13C2-PFDoA - ISTD



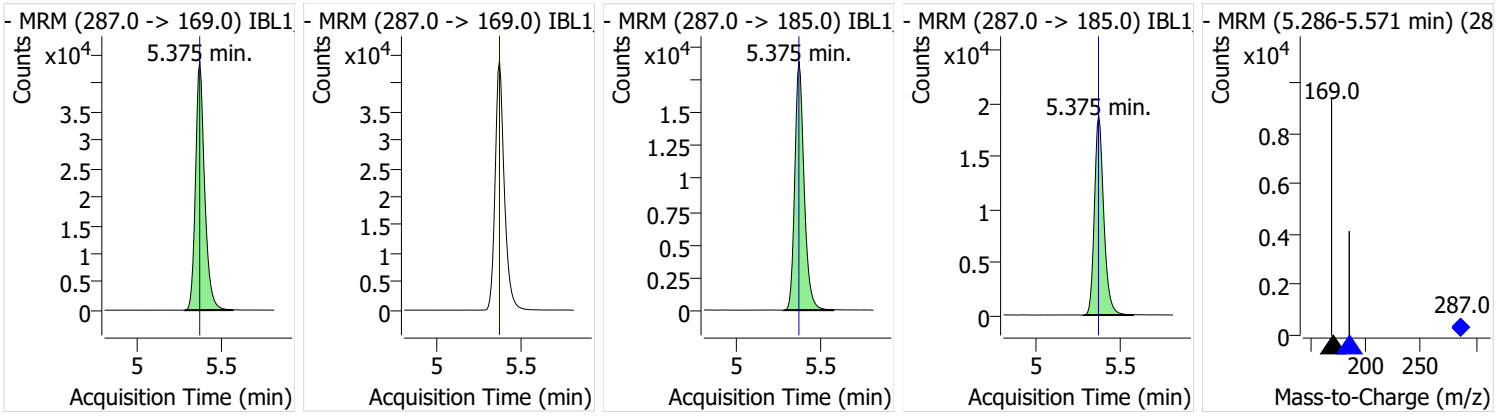
13C2-PFHxA



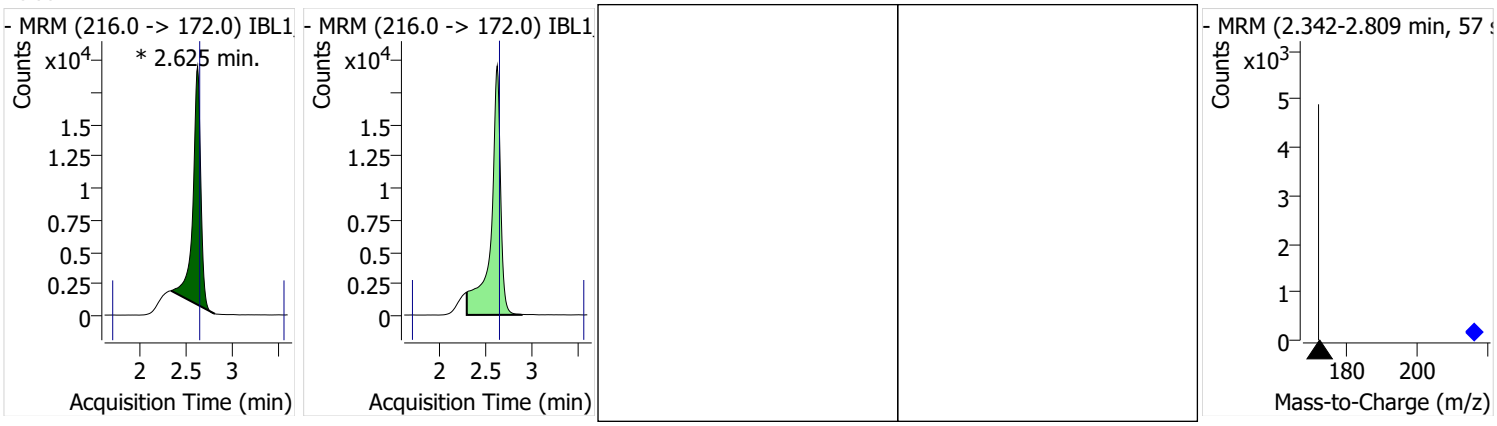
13C2-PFTeDA - ISTD



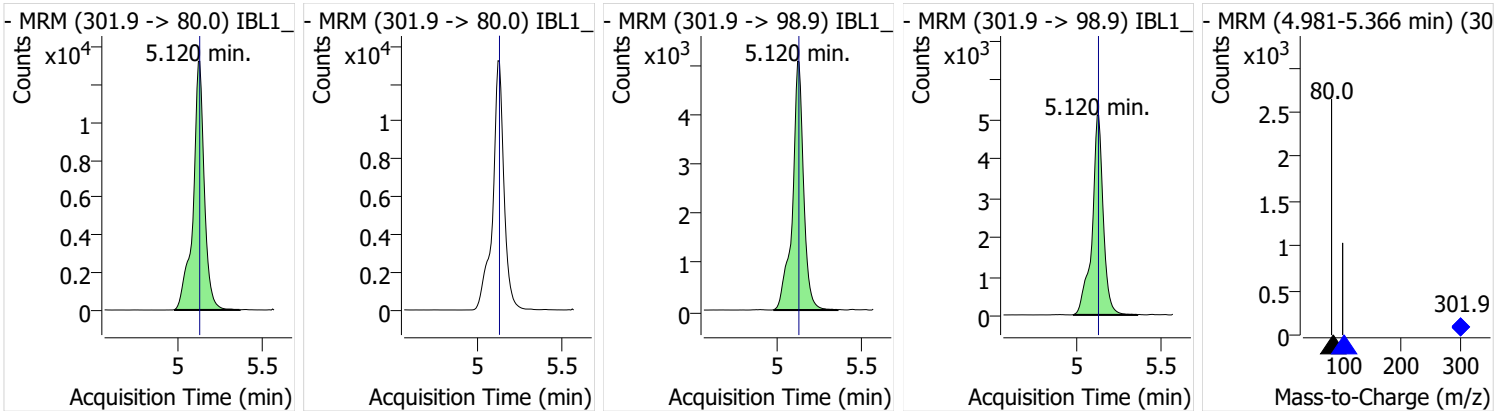
13C3-HFPODA - ISTD



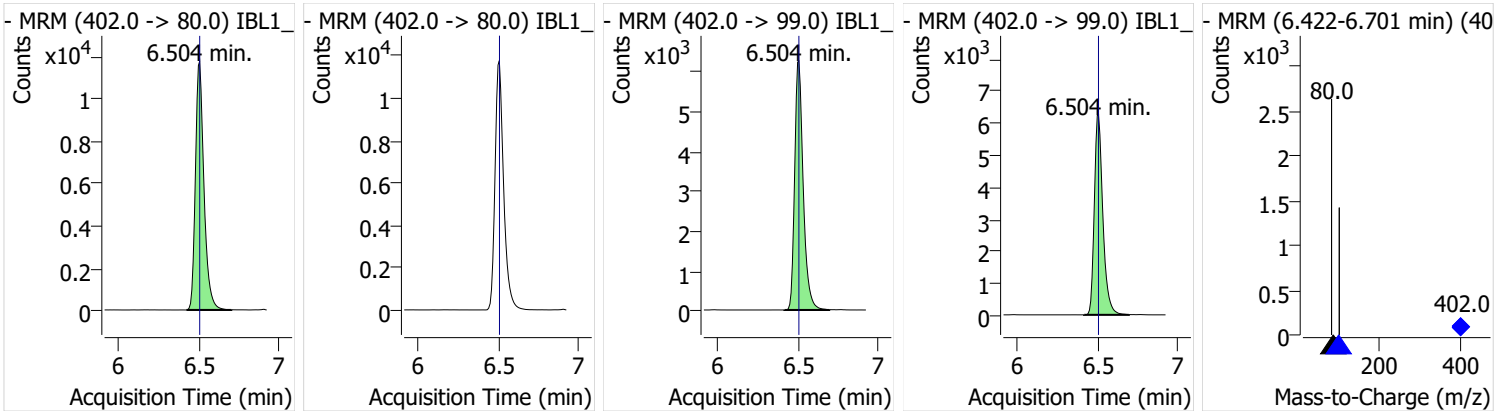
13C3-PFBA



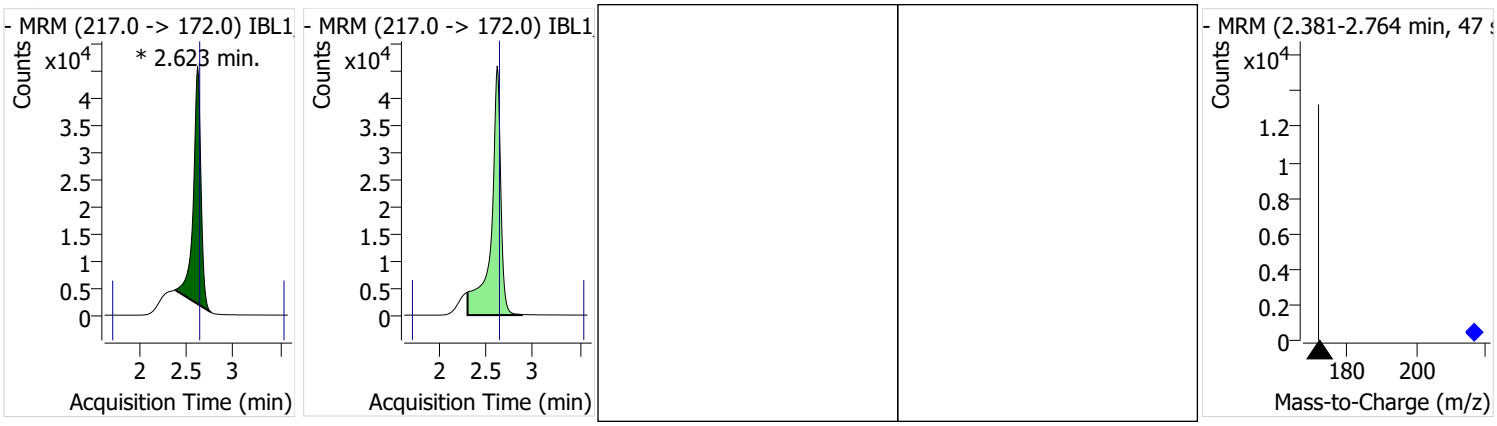
13C3-PFBS - ISTD



13C3-PFHxS - ISTD

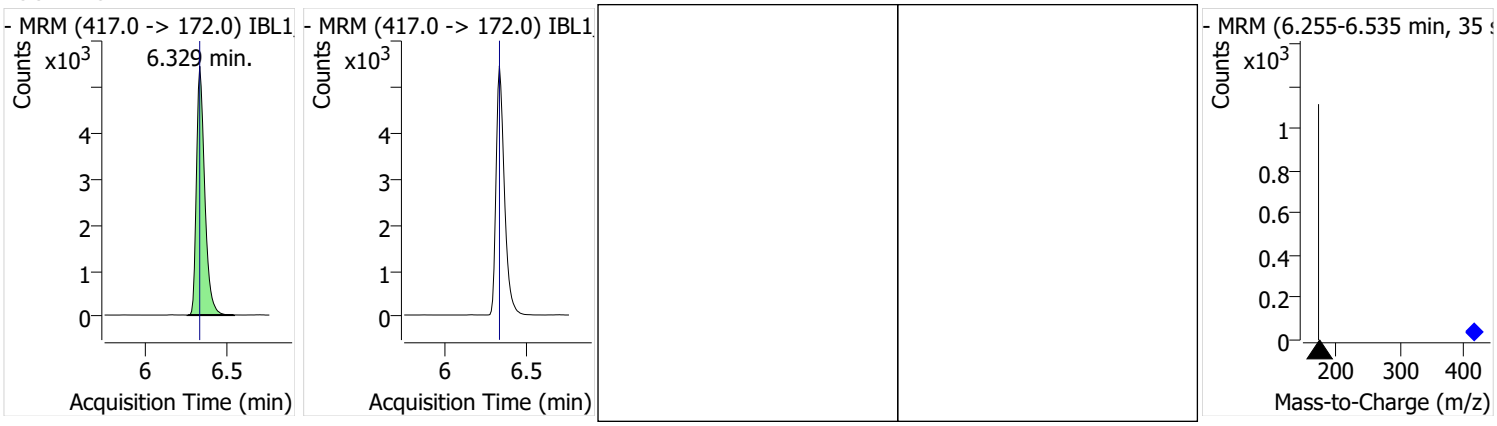


13C4-PFBA - ISTD

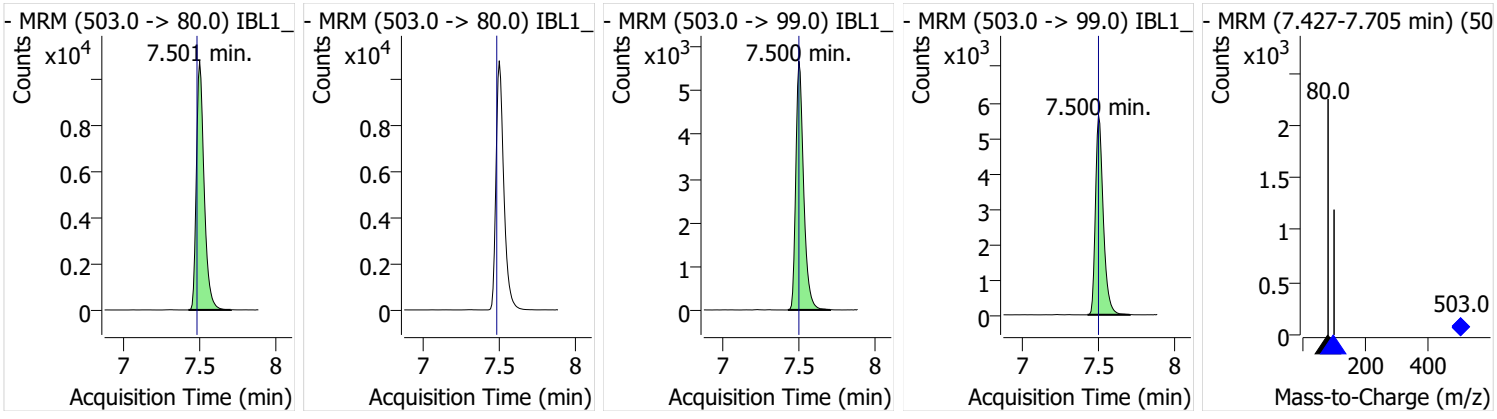


13C4-PFHpA - ISTD

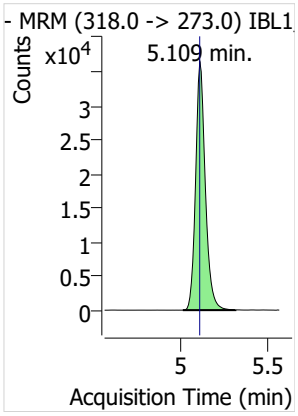
13C4-PFOA

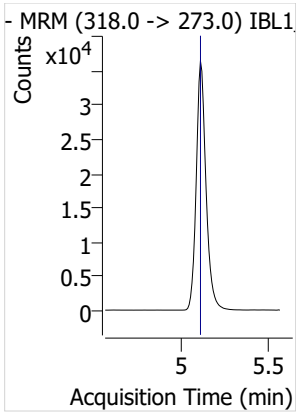


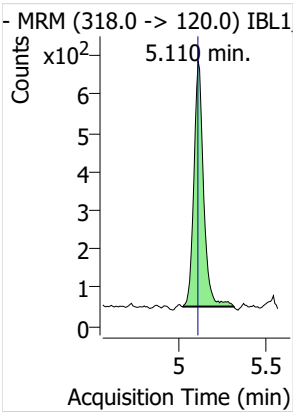
13C4-PFOS

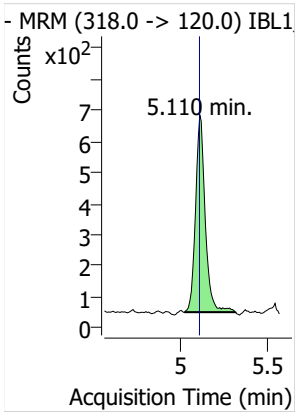


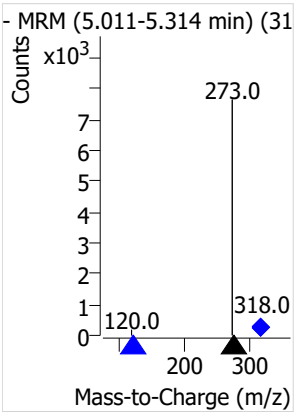
13C5-PFHxA - ISTD



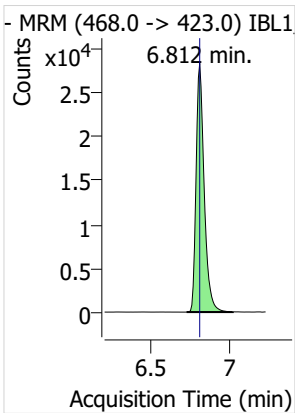


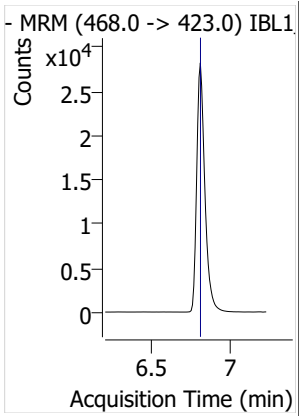


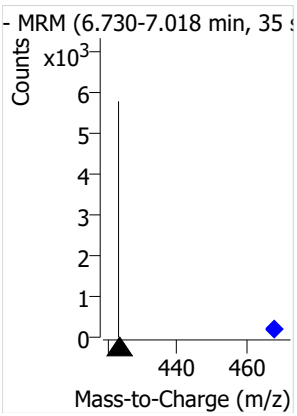




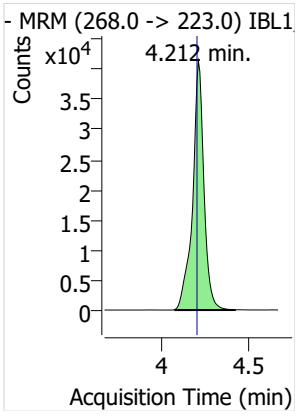
13C5-PFNA

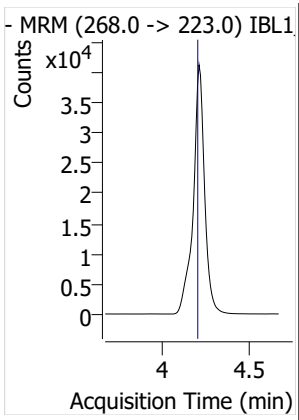


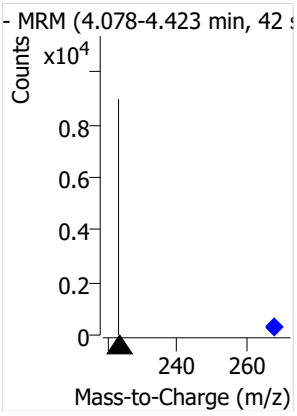




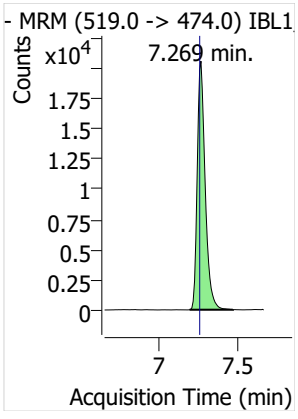
13C5-PFPeA - ISTD

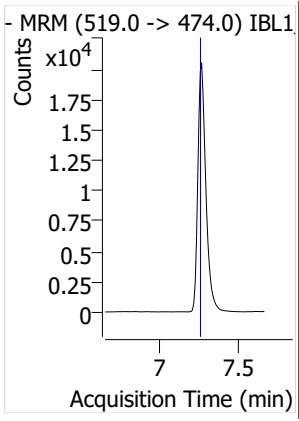


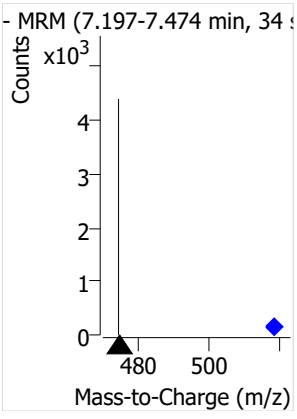




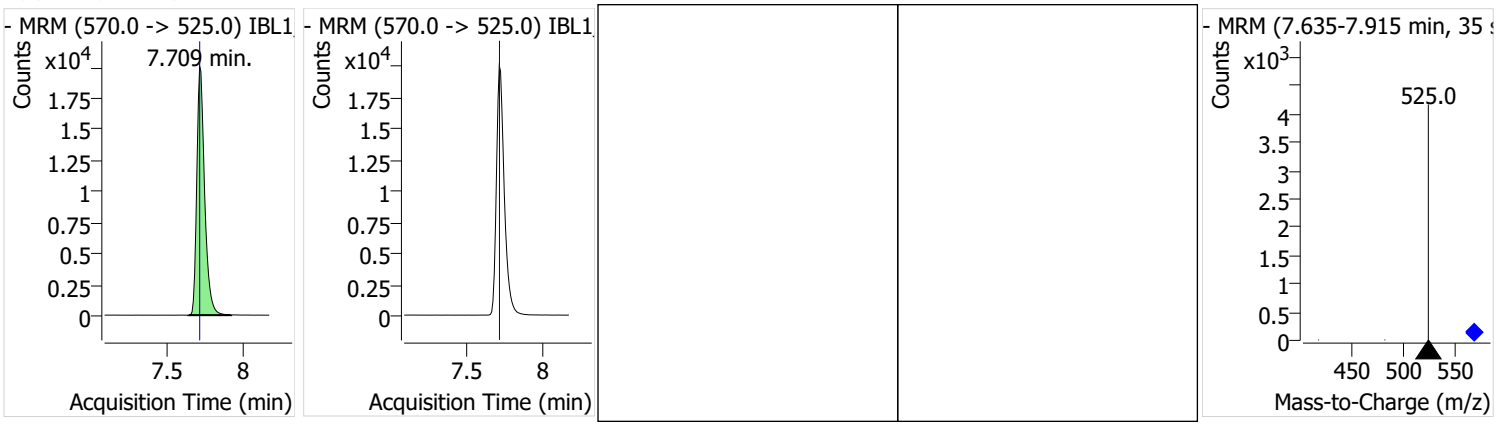
13C6-PFDA - ISTD



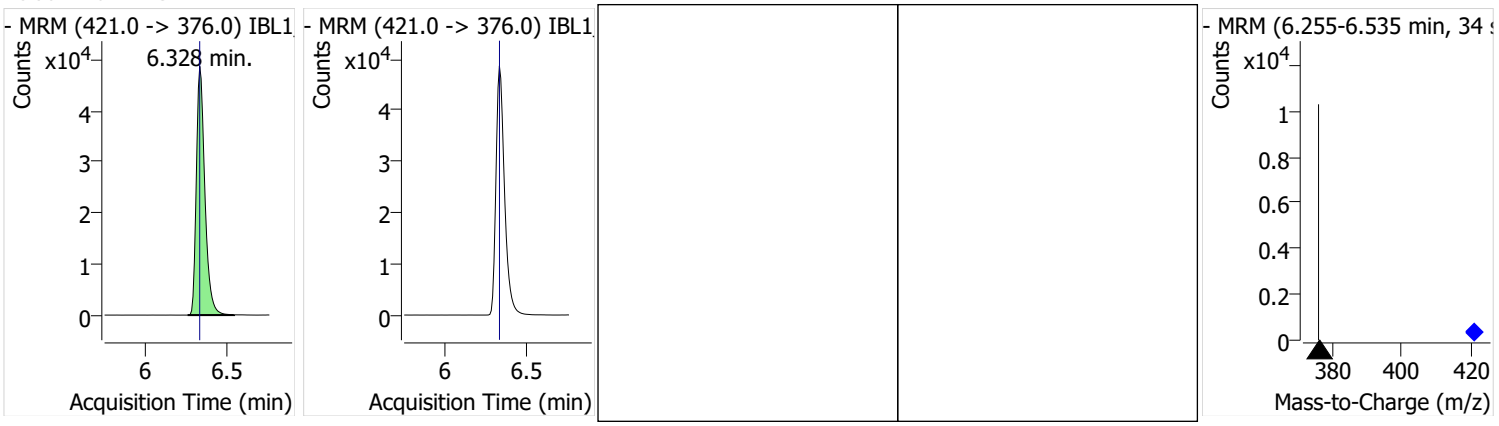




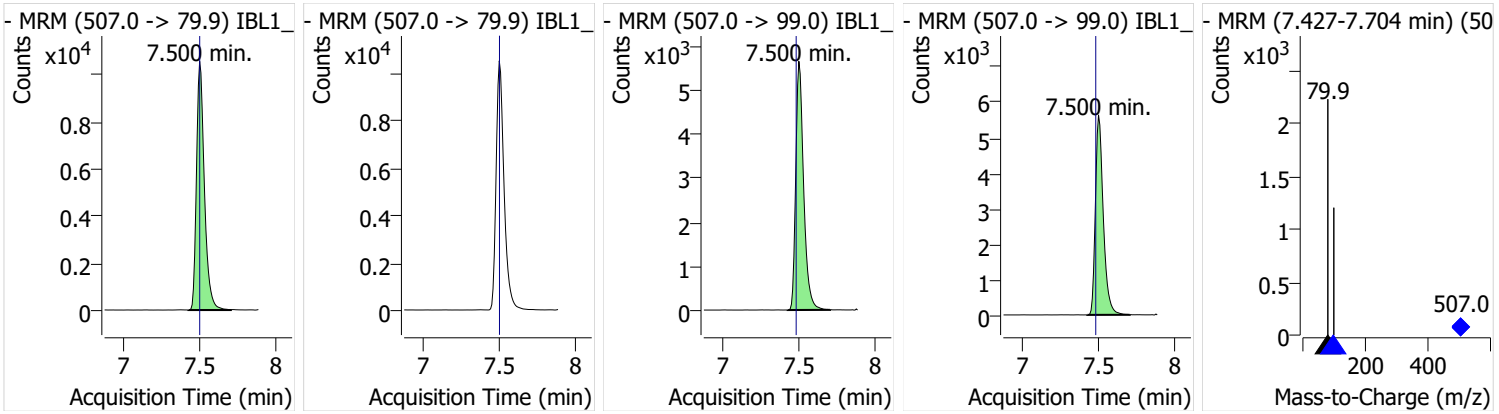
13C7-PFUnA - ISTD



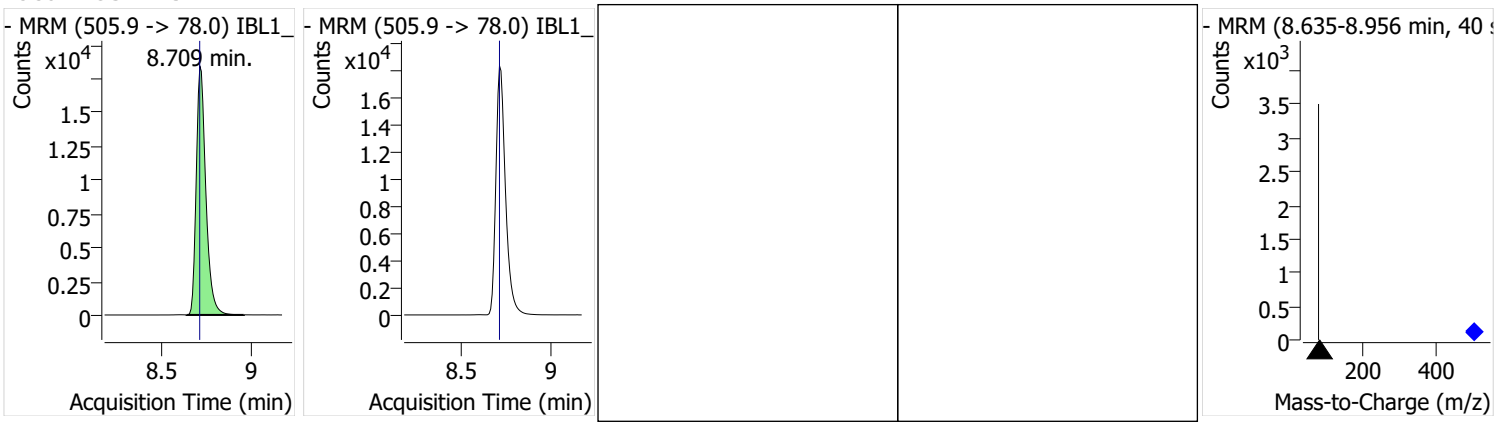
13C8-PFOA - ISTD



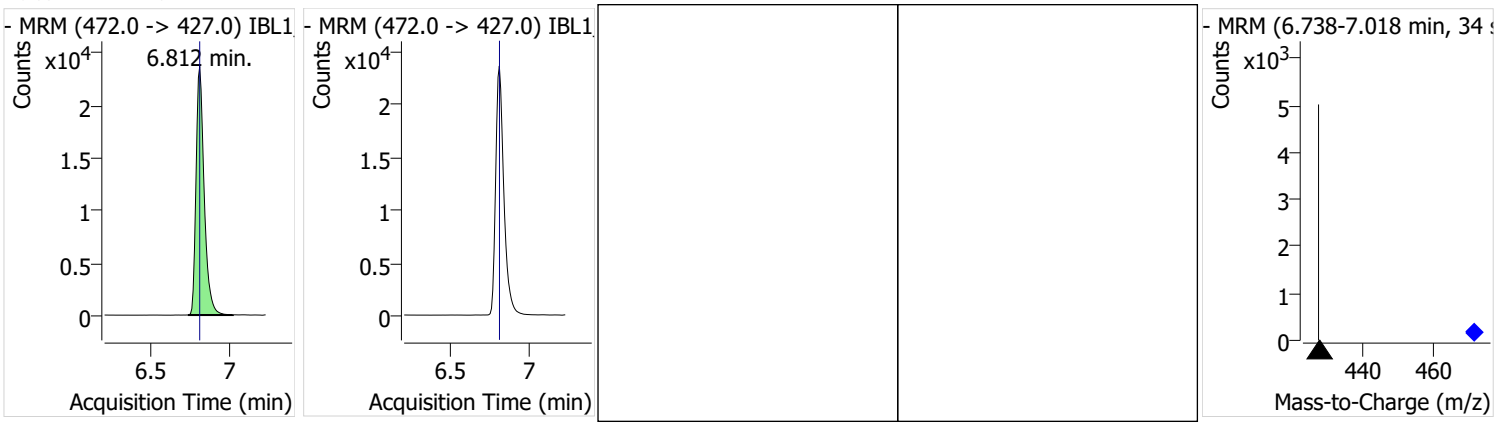
13C8-PFOS - ISTD



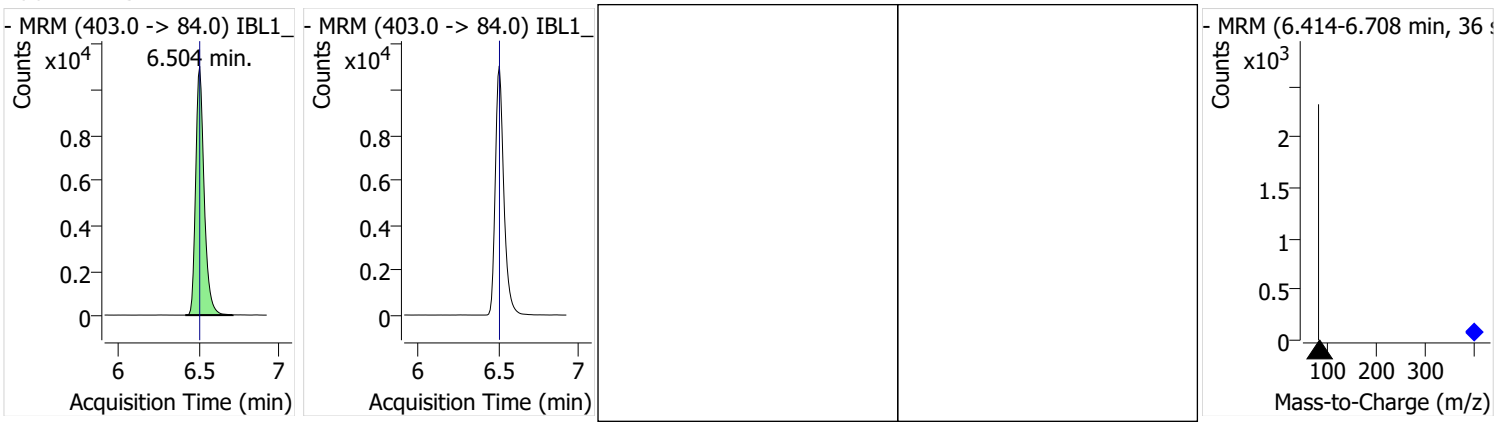
13C8-PFOSA - ISTD



13C9-PFNA - ISTD



18O2-PFHxS



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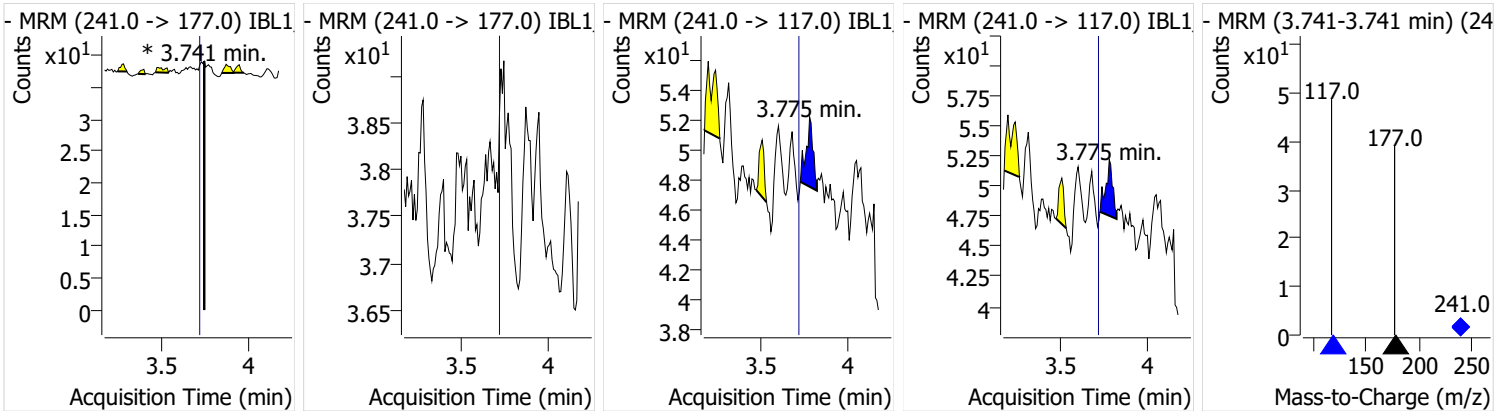

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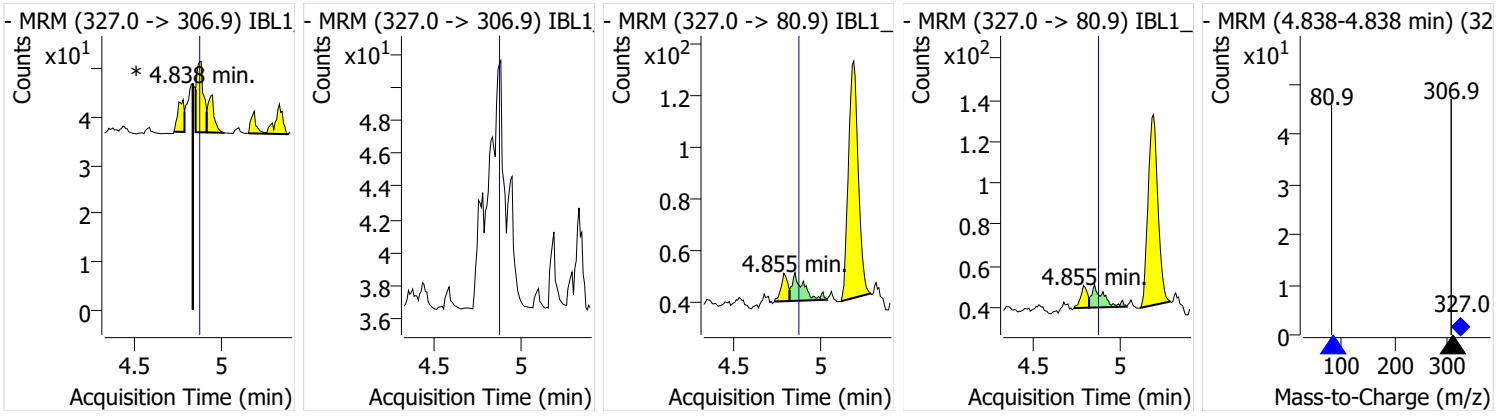

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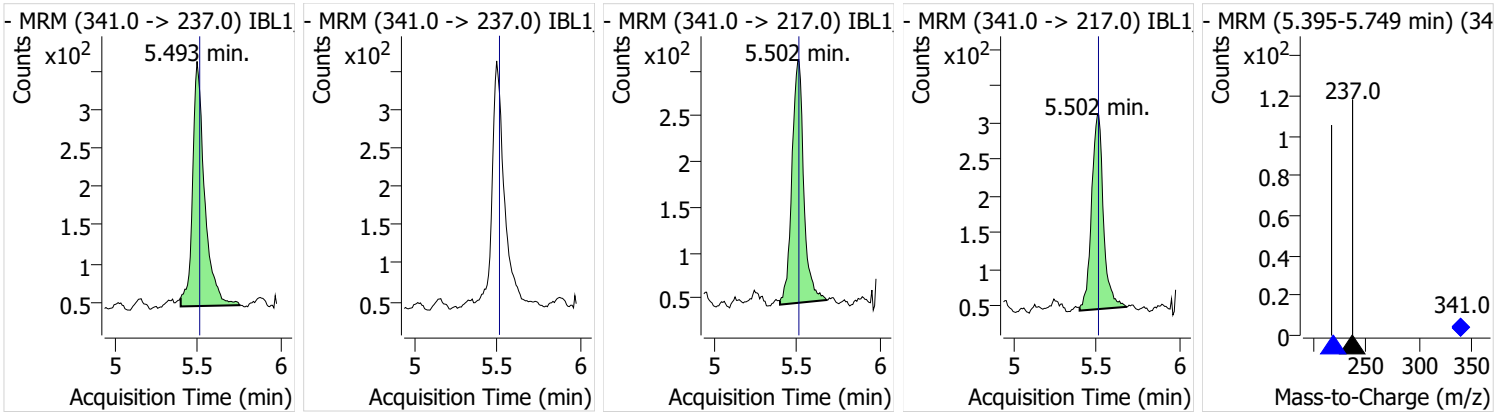

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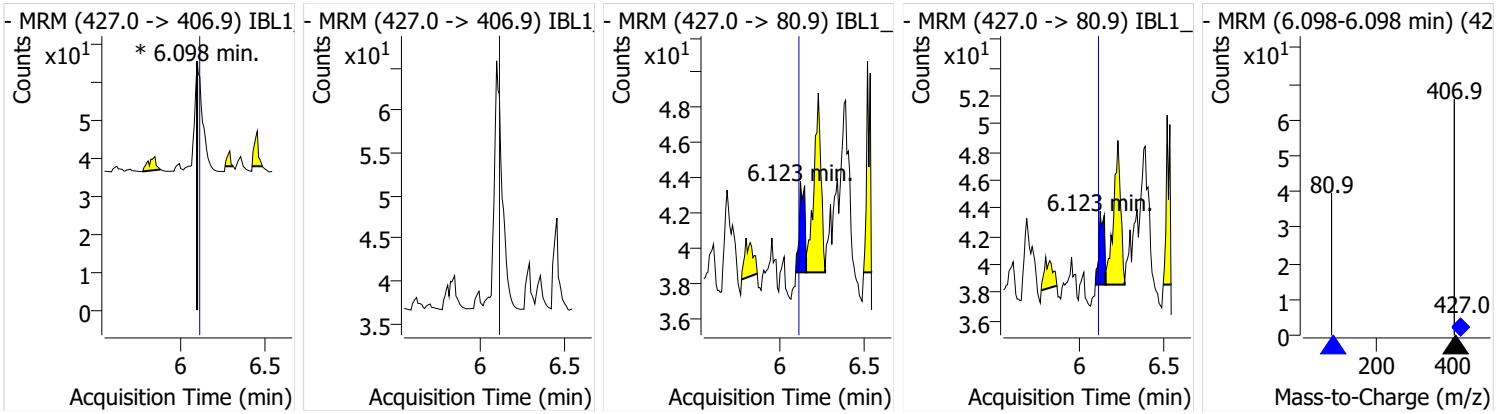

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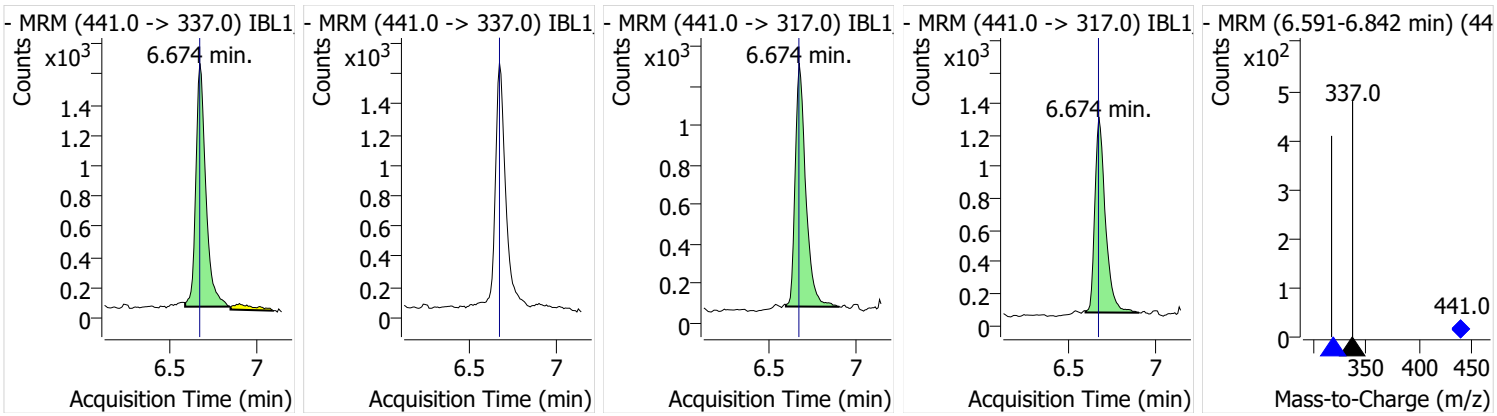

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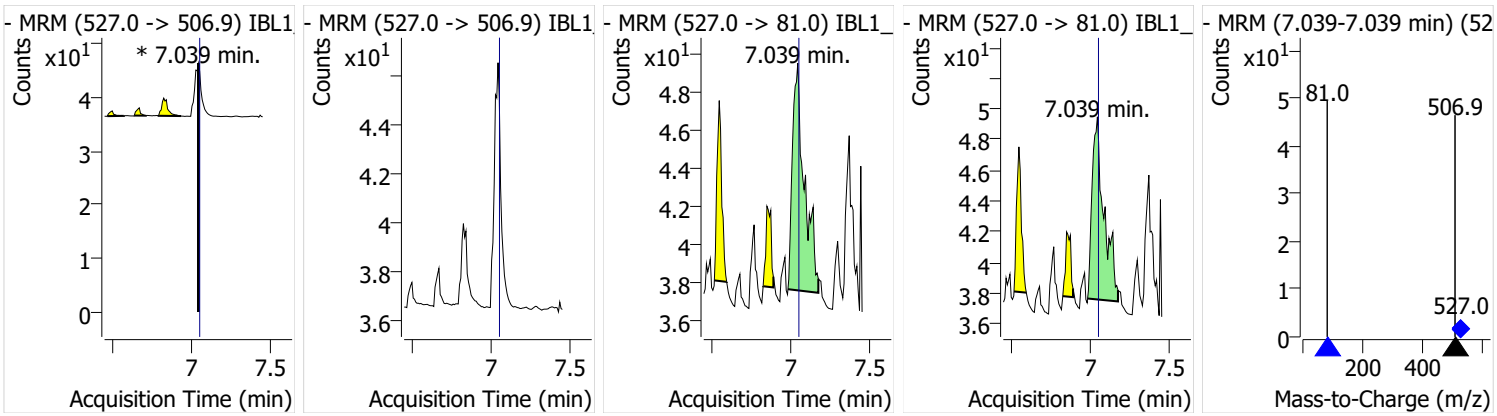
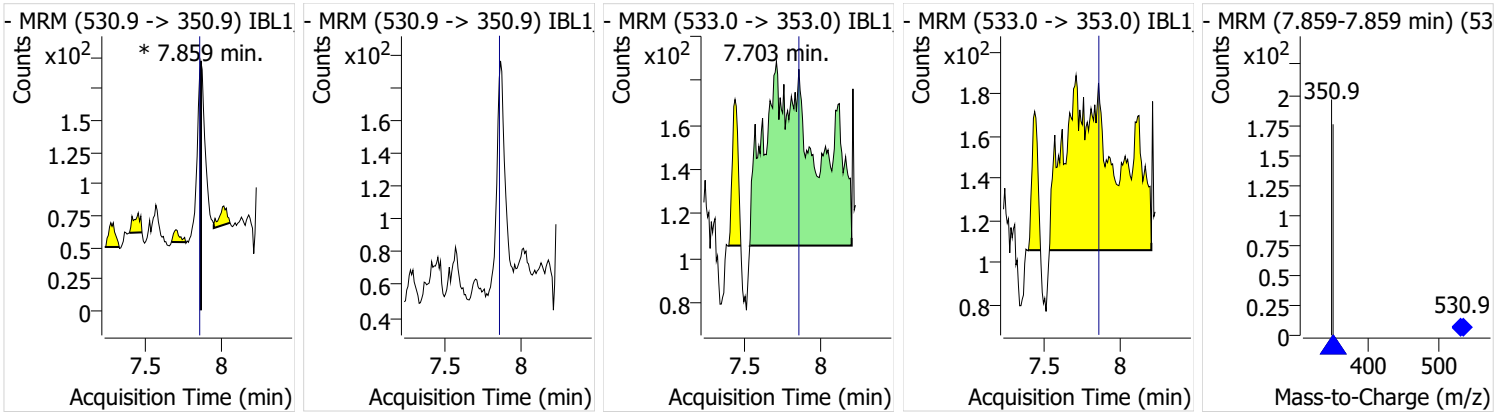


9Cl-PF3ONS



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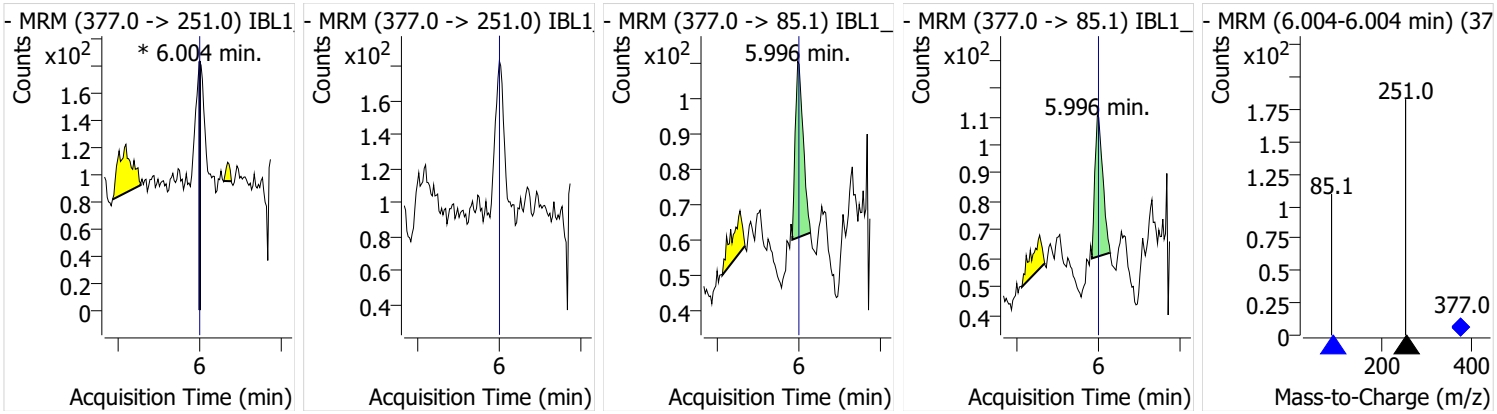


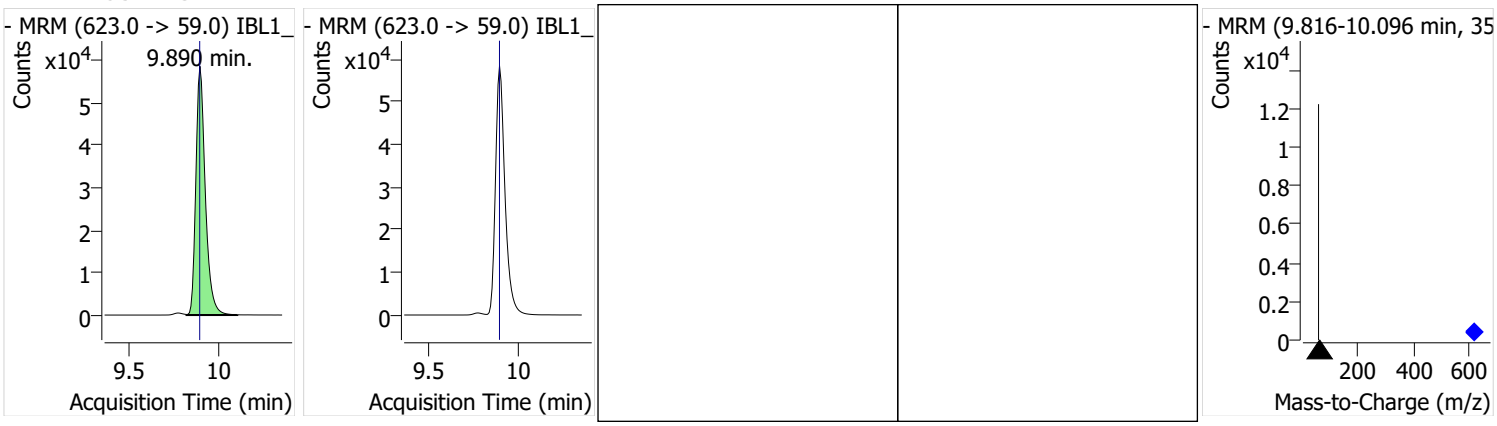
D3-NMeFOSA - ISTD

D3-NMeFOSAA - ISTD

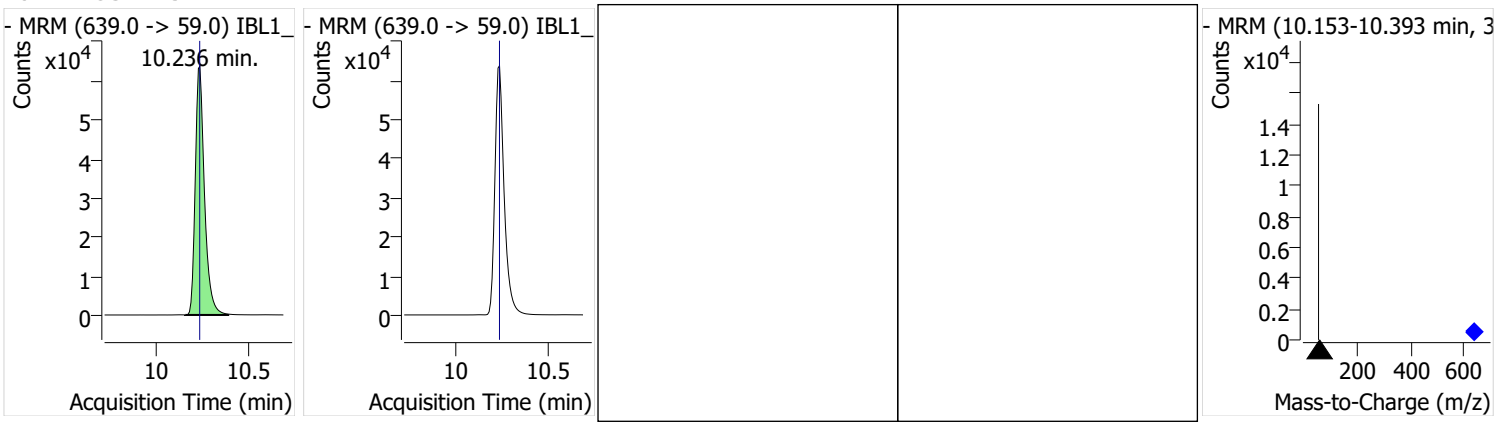
D5-NEtFOSA - ISTD

D5-NEtFOSAA - ISTD

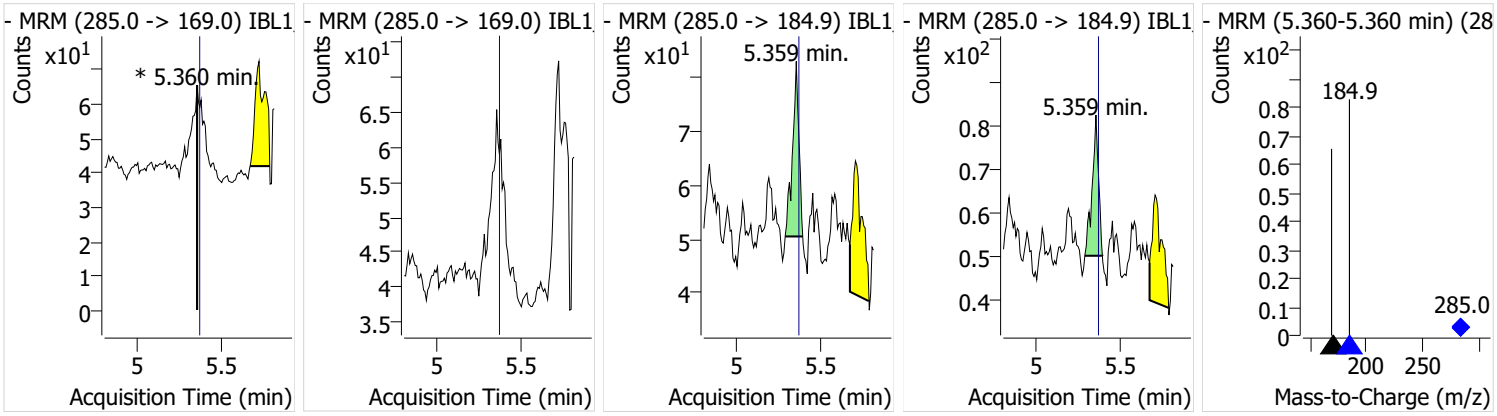
D7-NMeFOSE - ISTD



D9-NEtFOSE - ISTD



HFPO-DA



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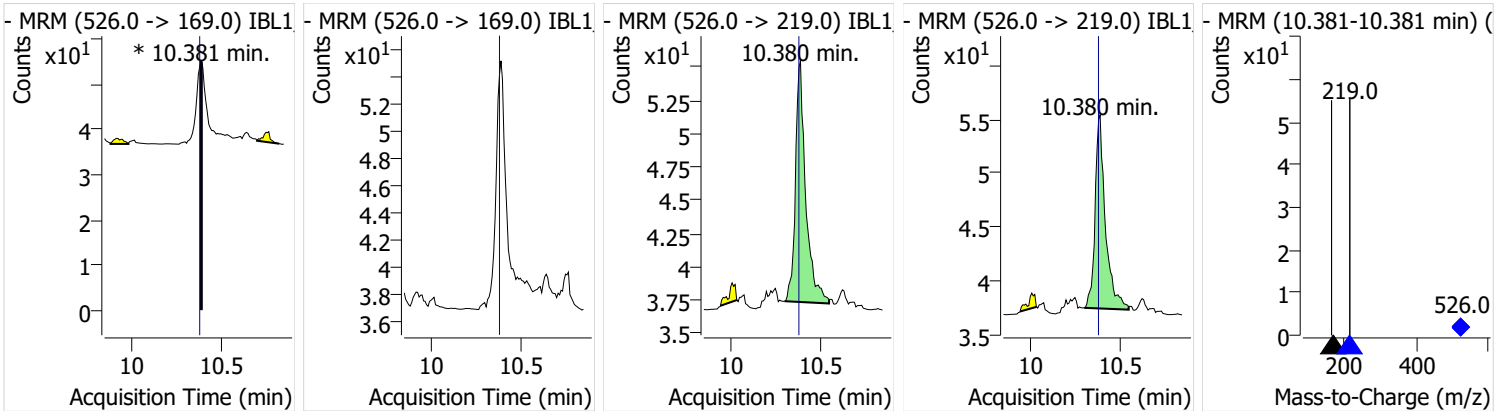

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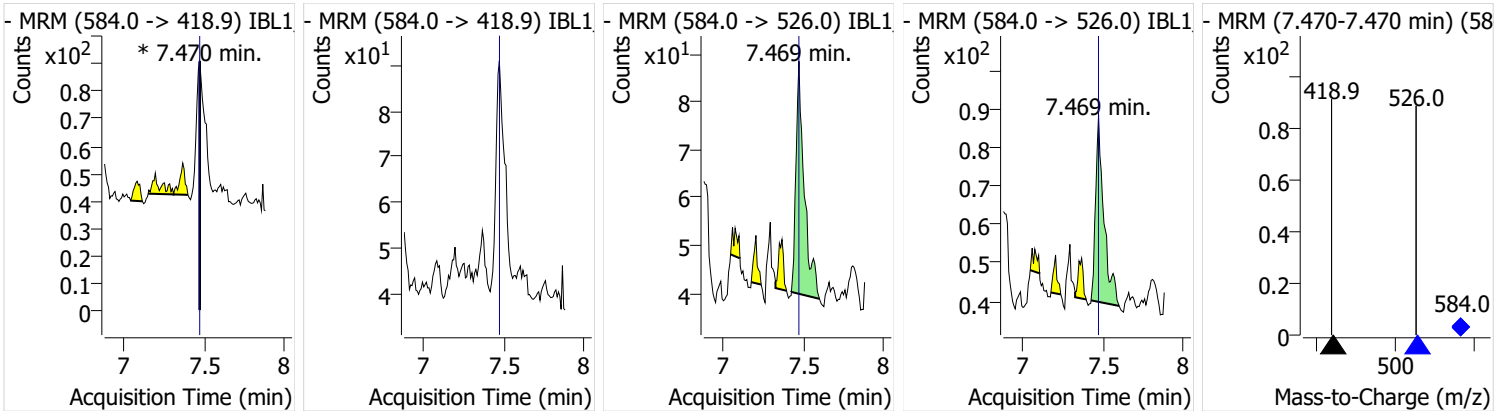

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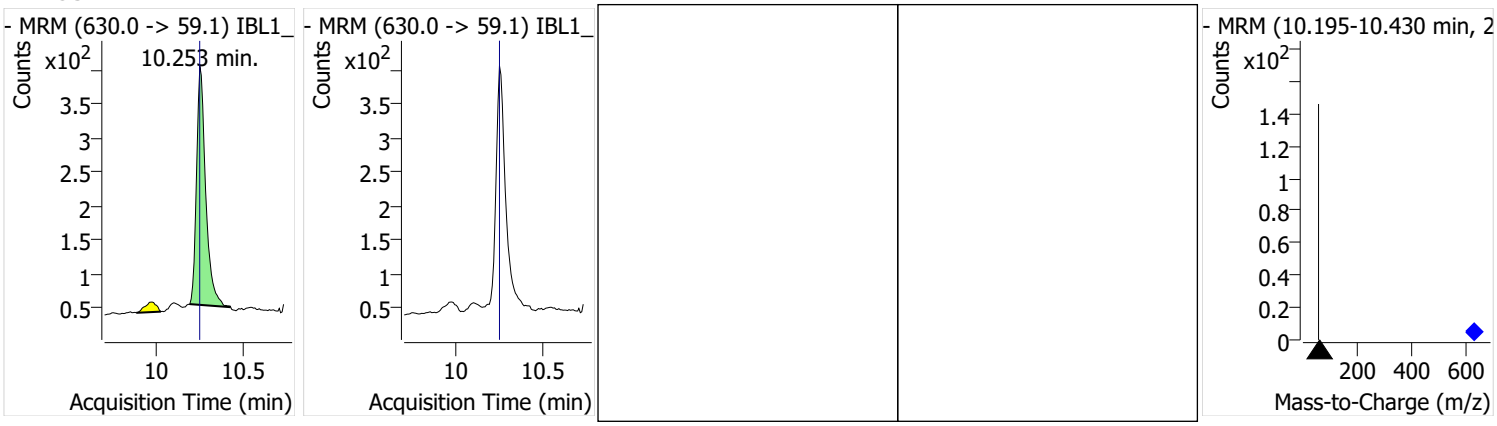

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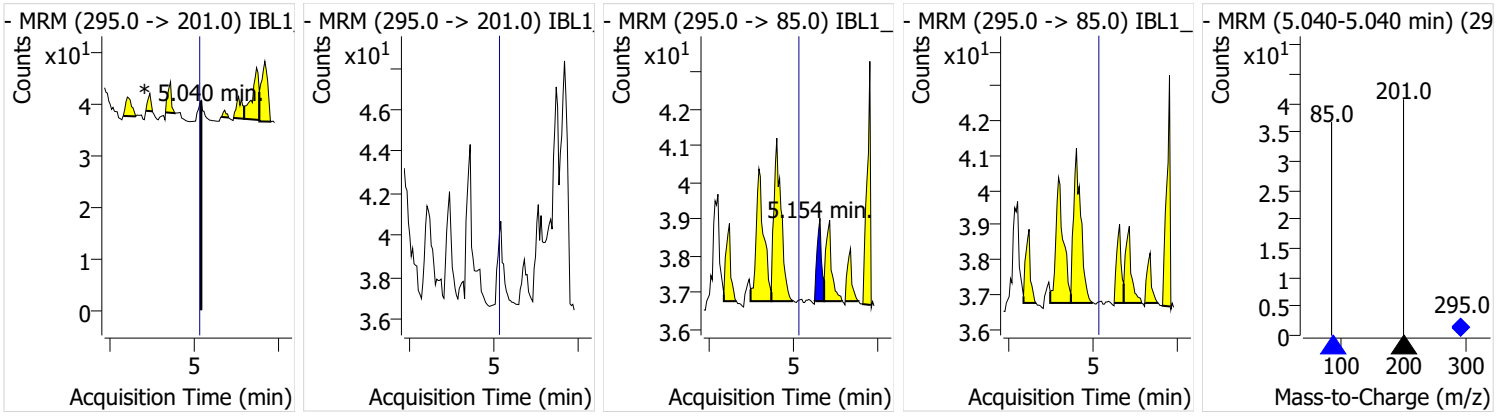

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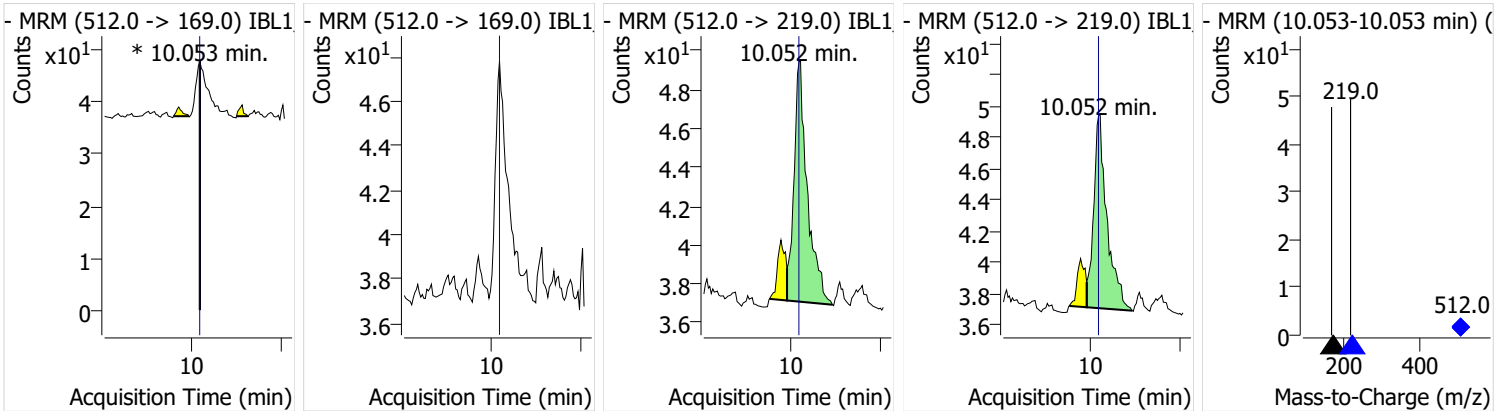

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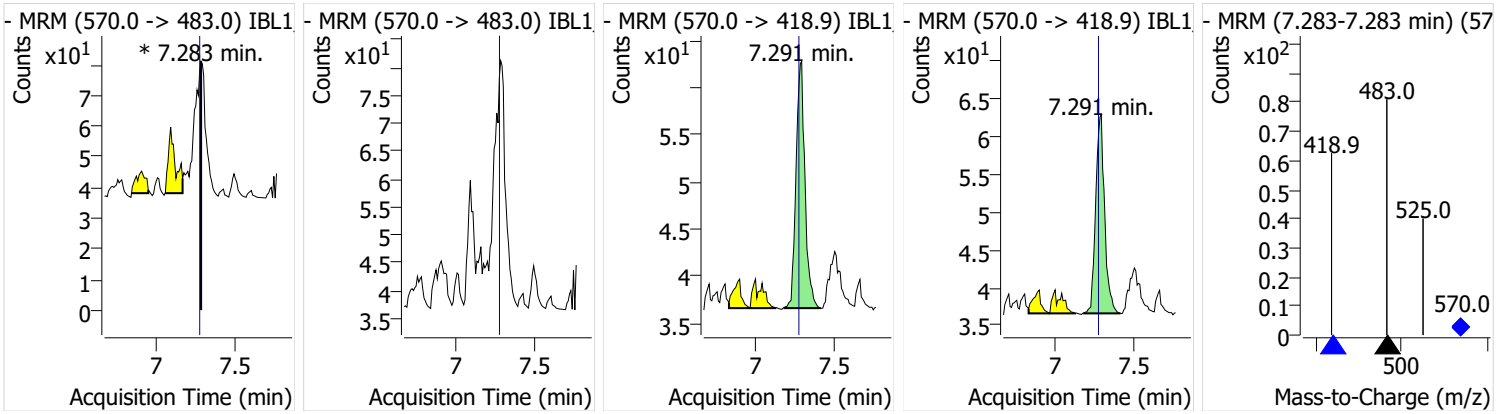

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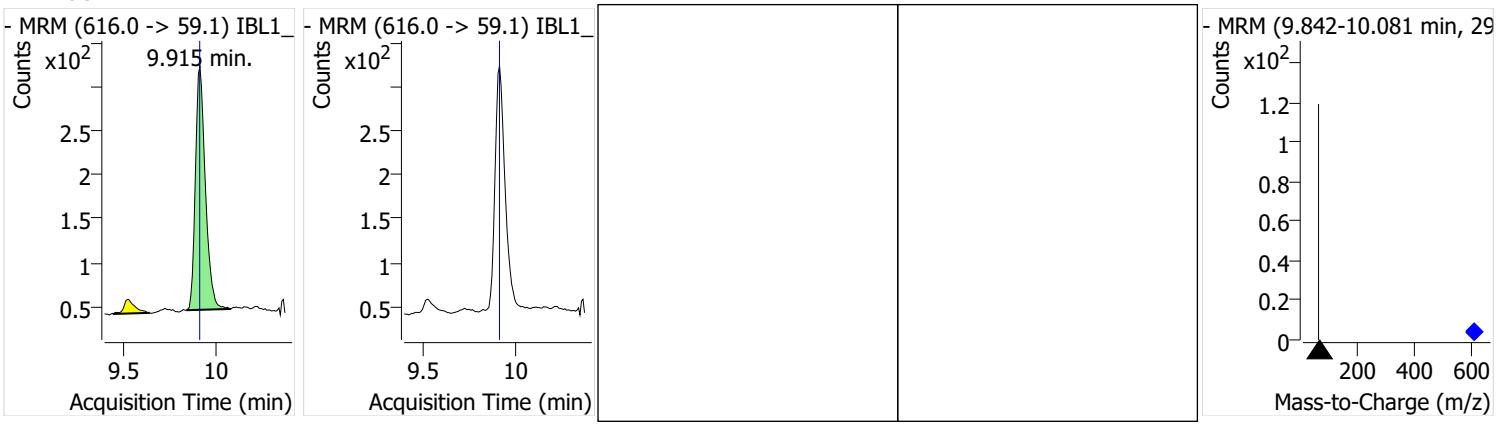

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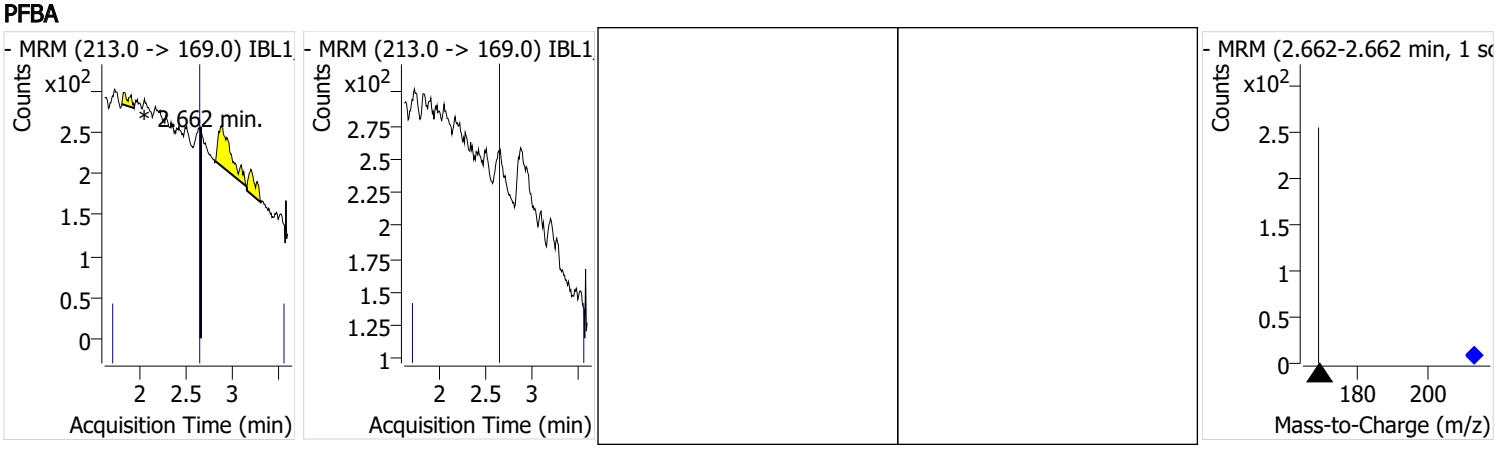

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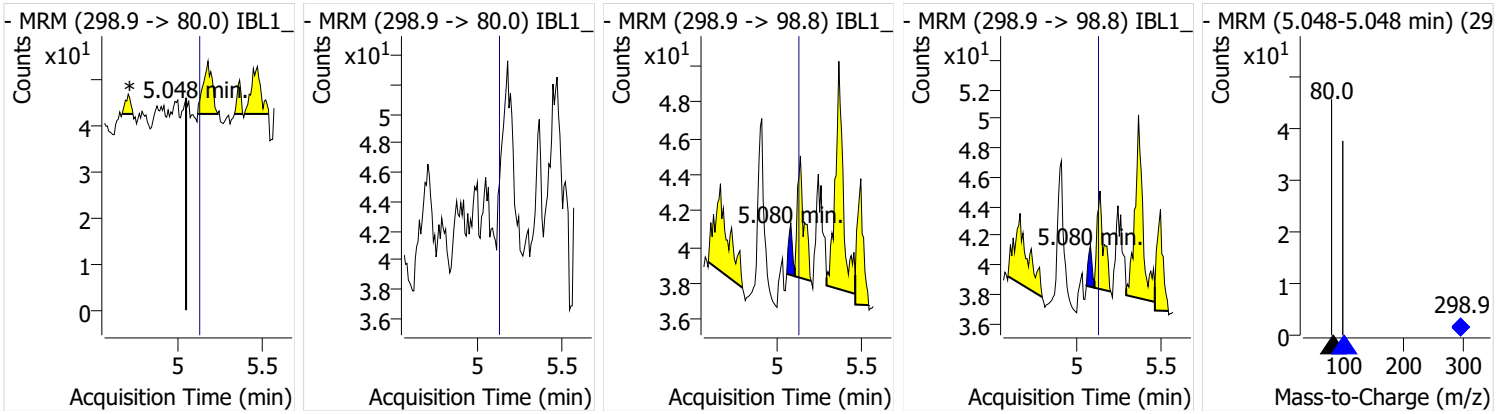

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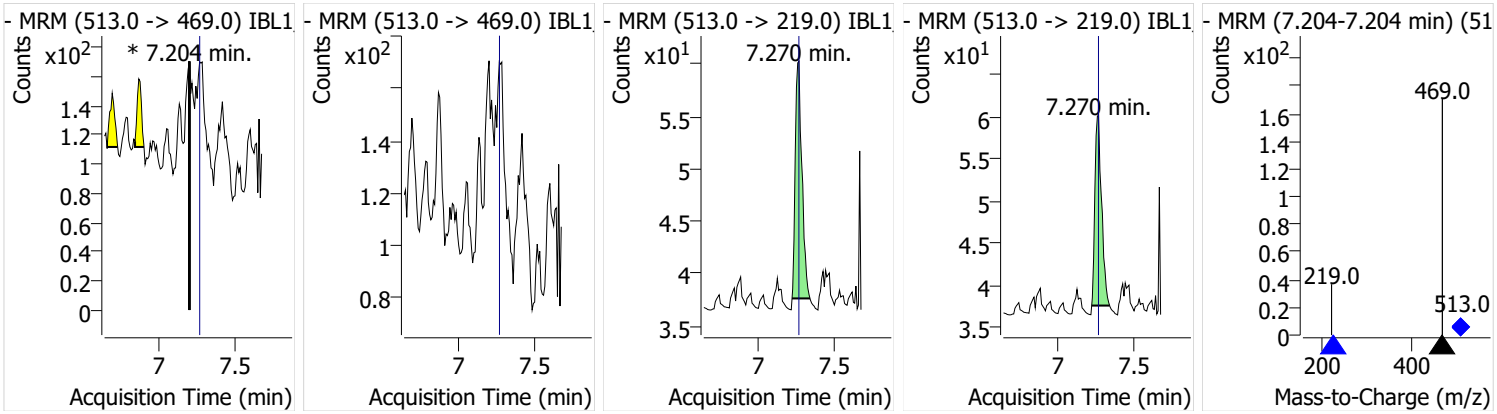

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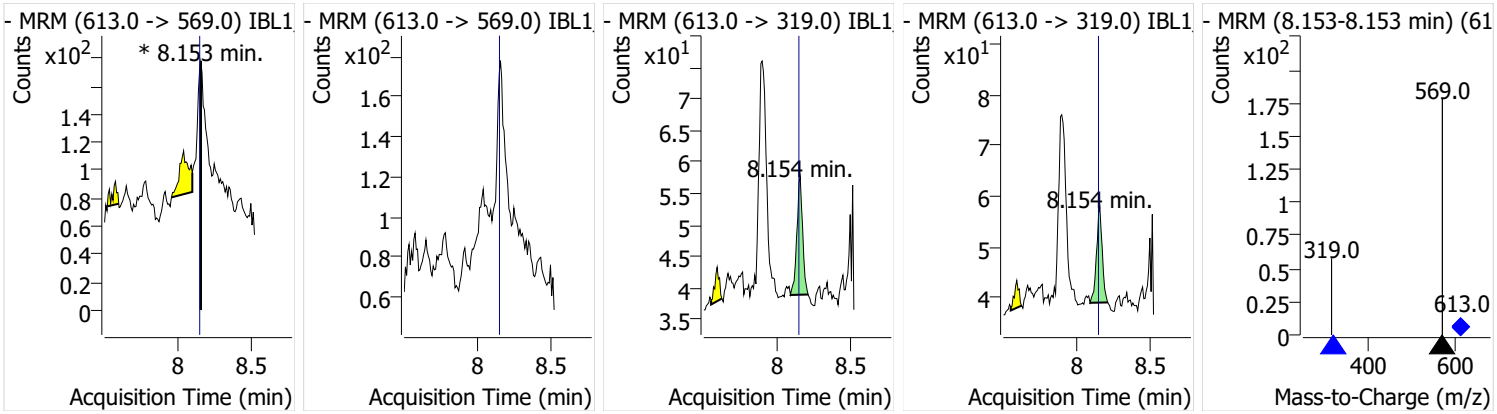

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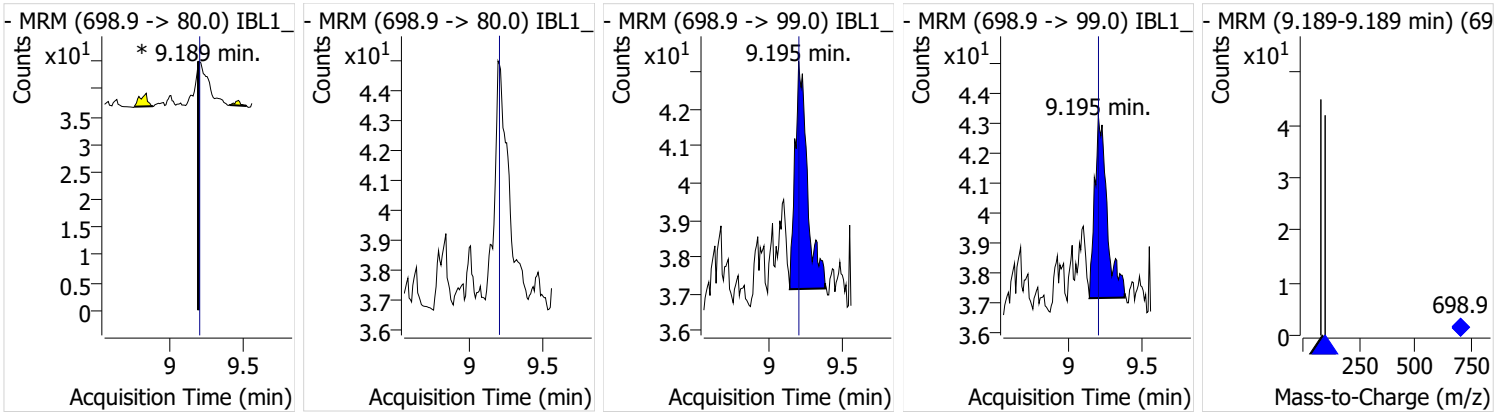

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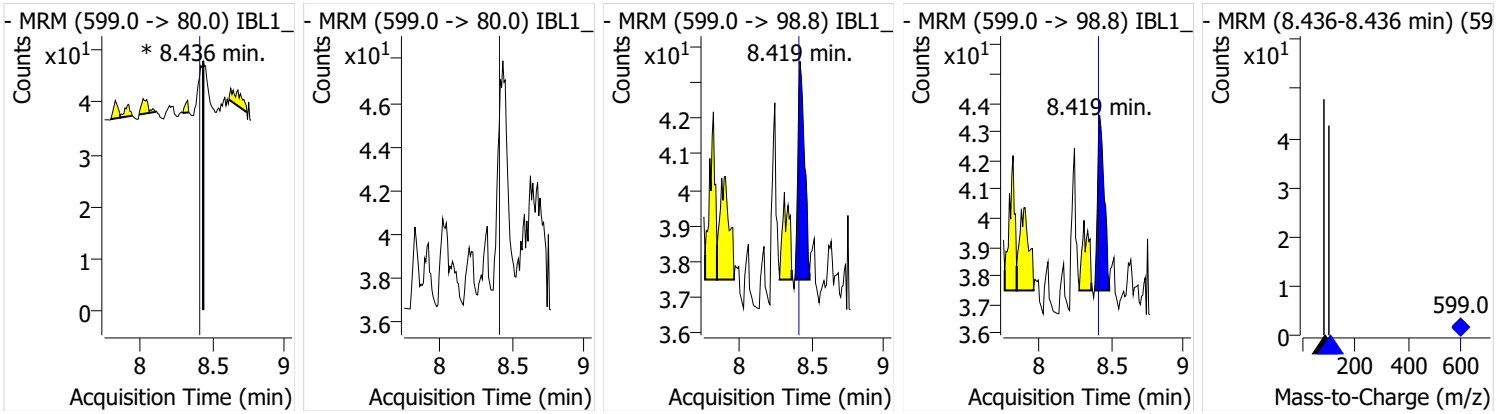

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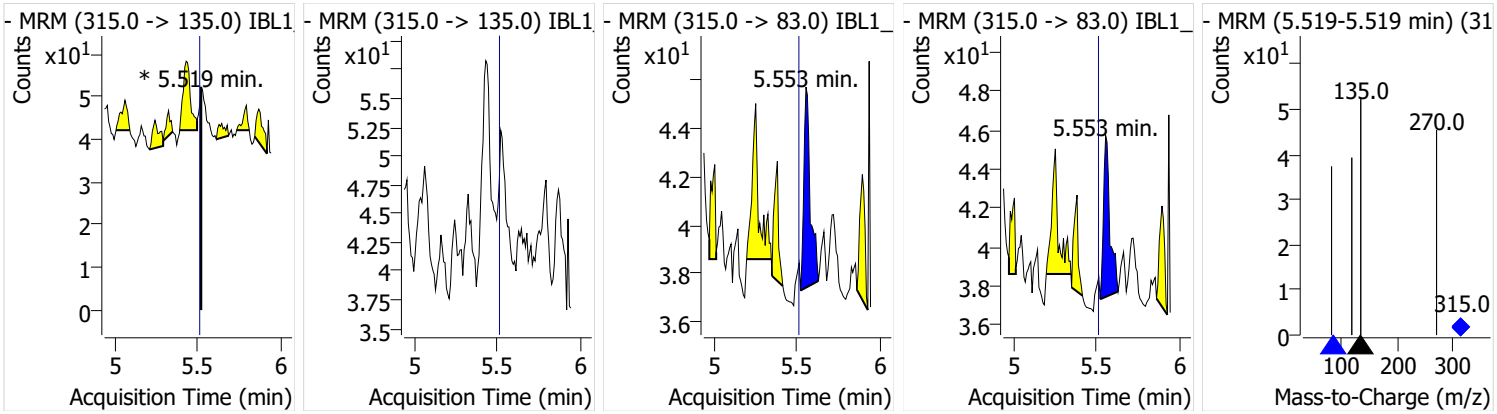

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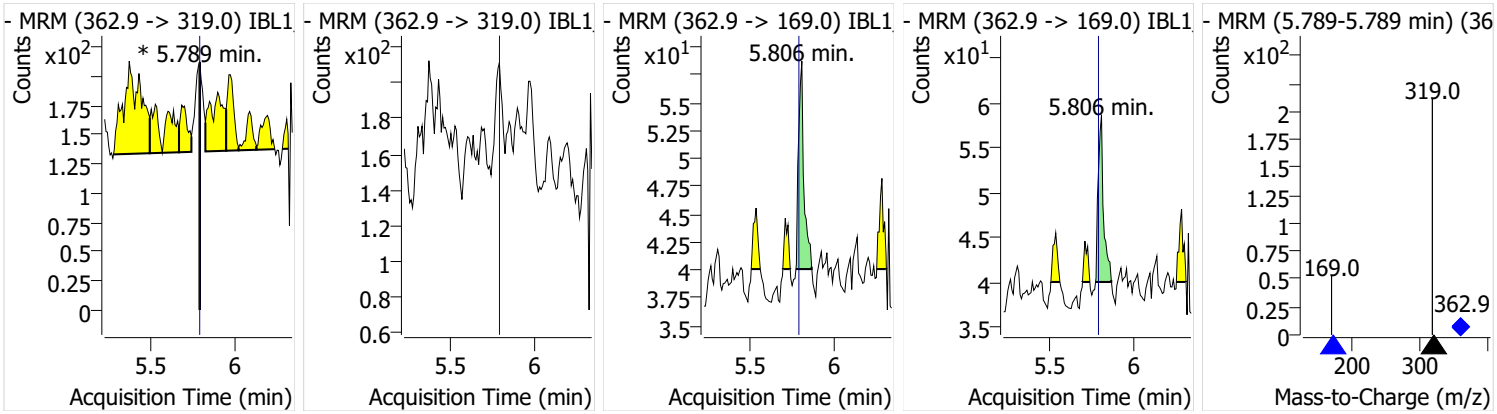

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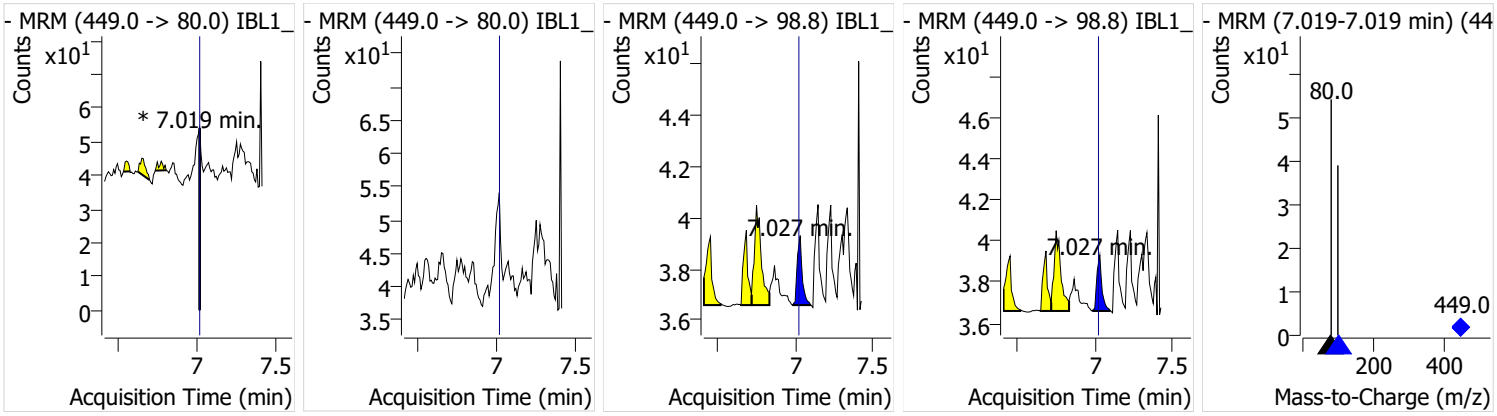

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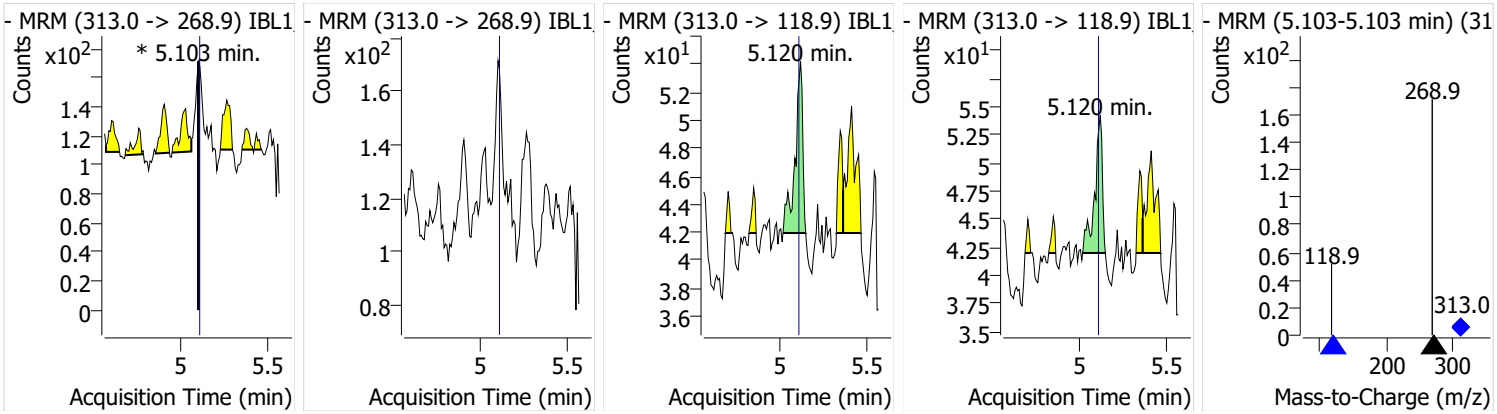
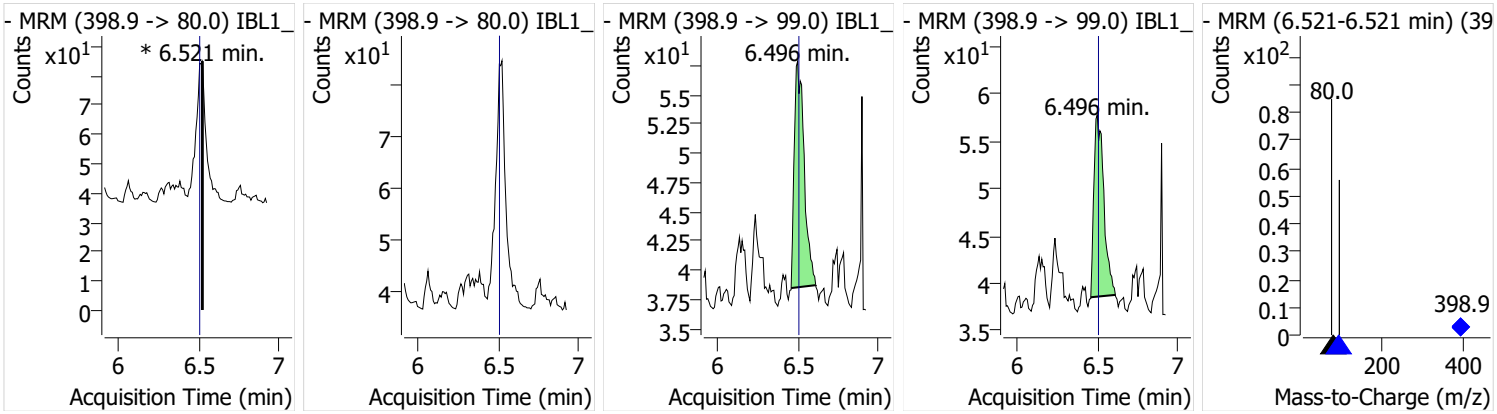


PFHxS



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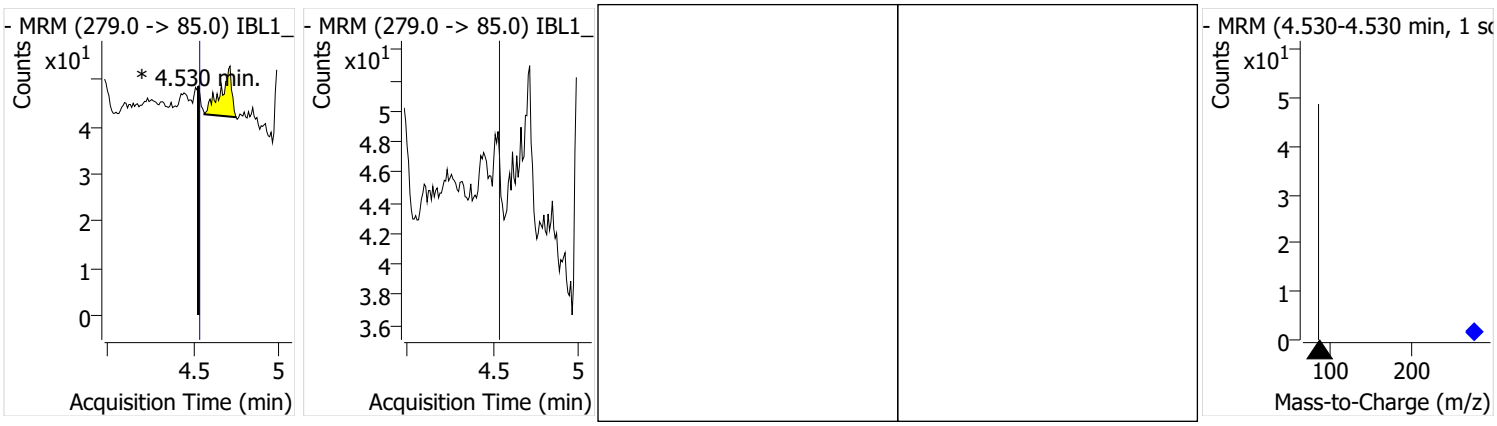
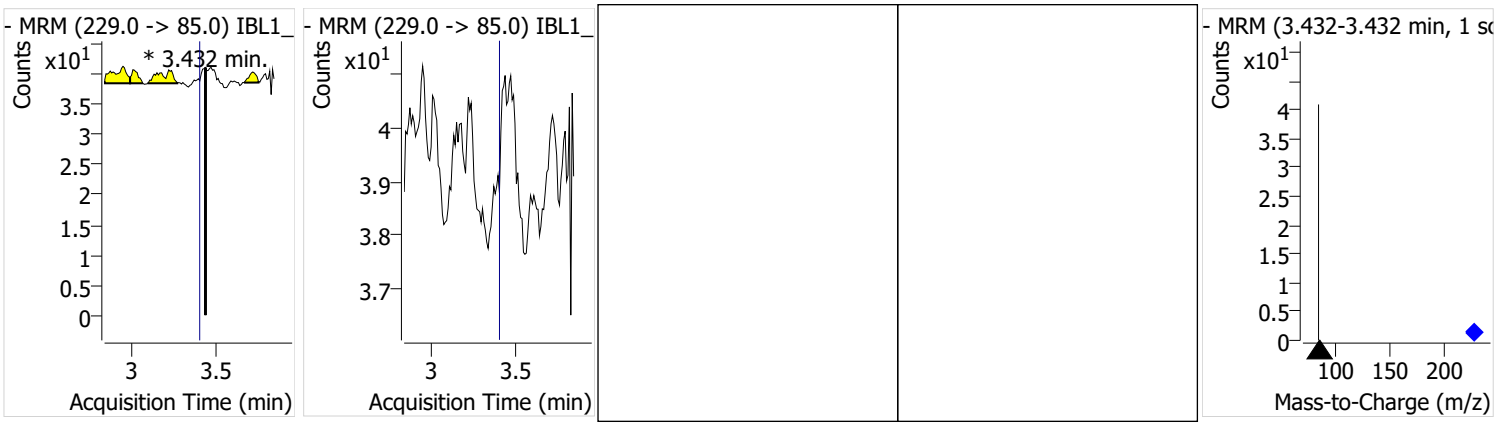


PFMPA



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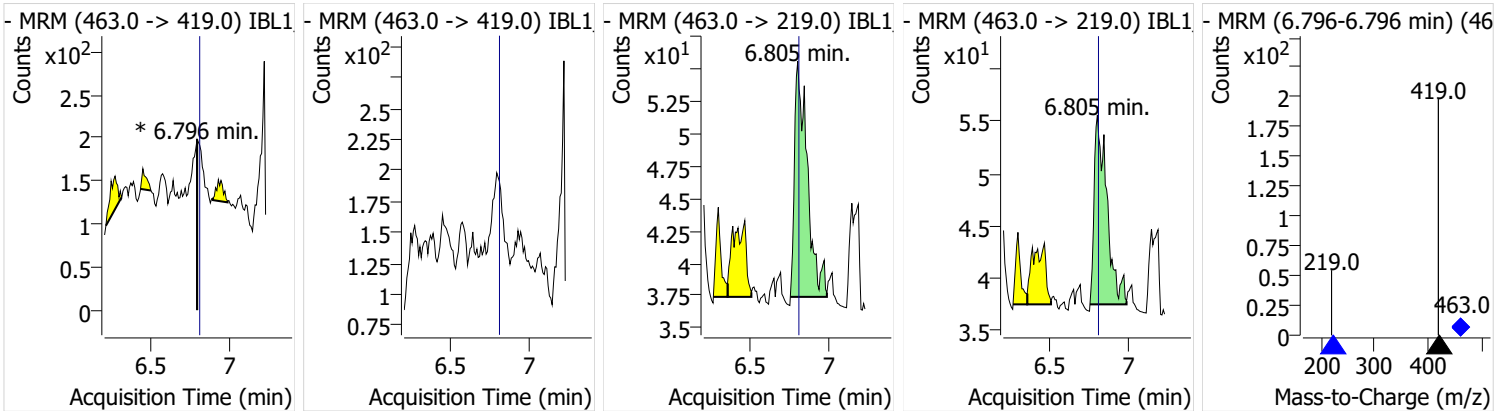
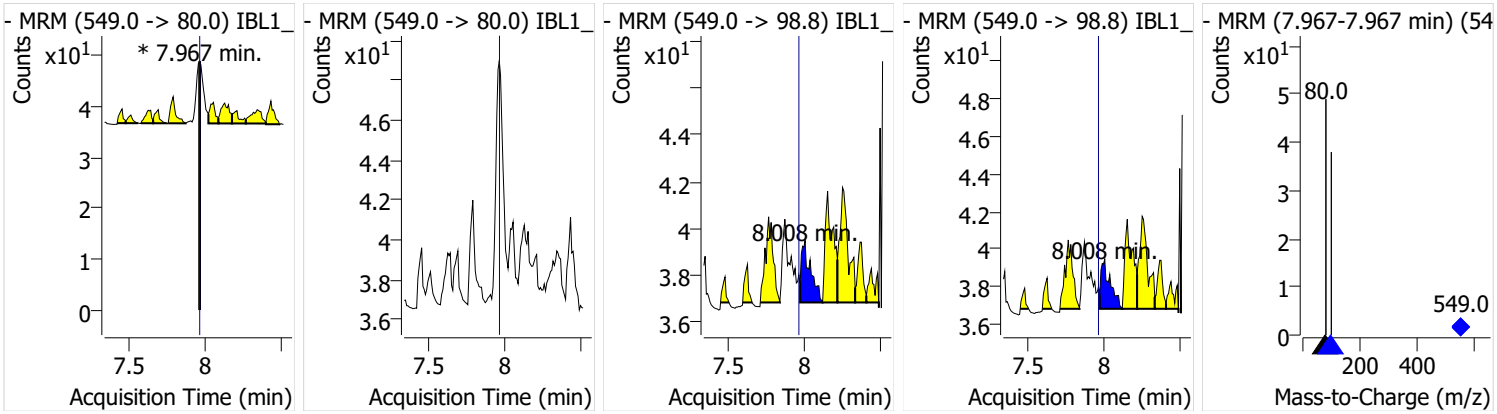
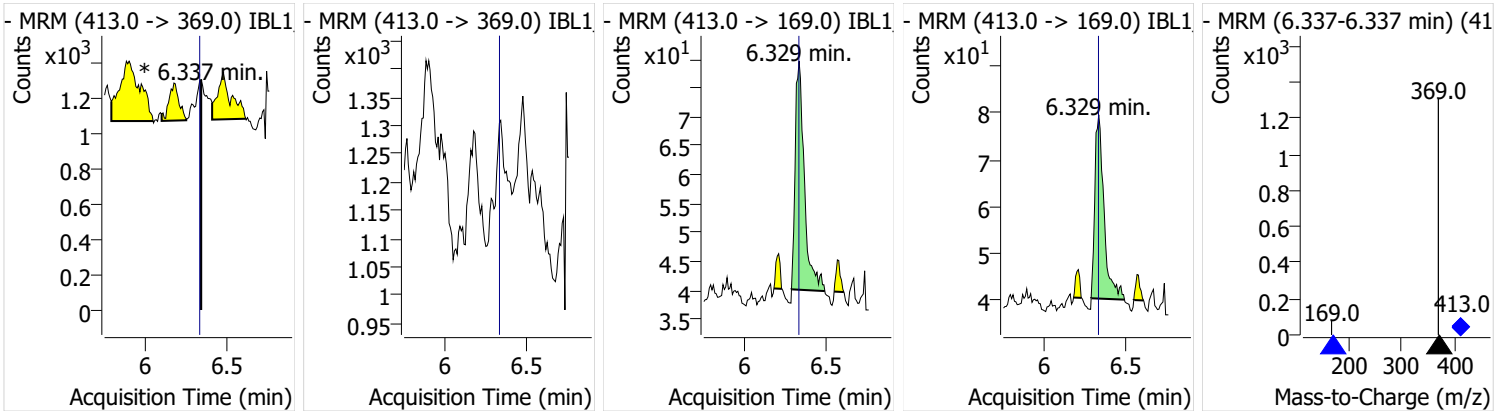


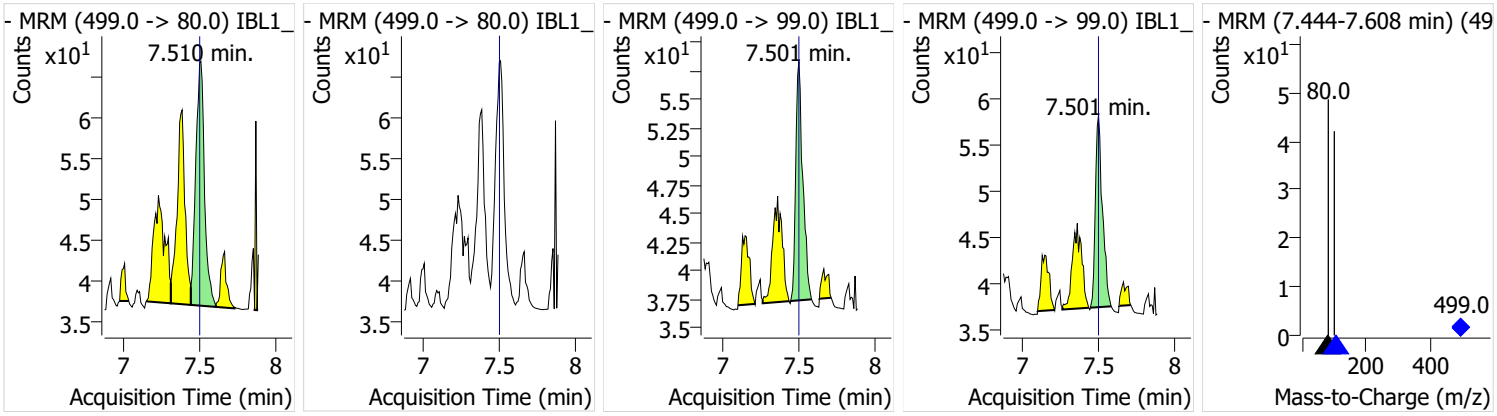
PFNS



PFOA



PFOS



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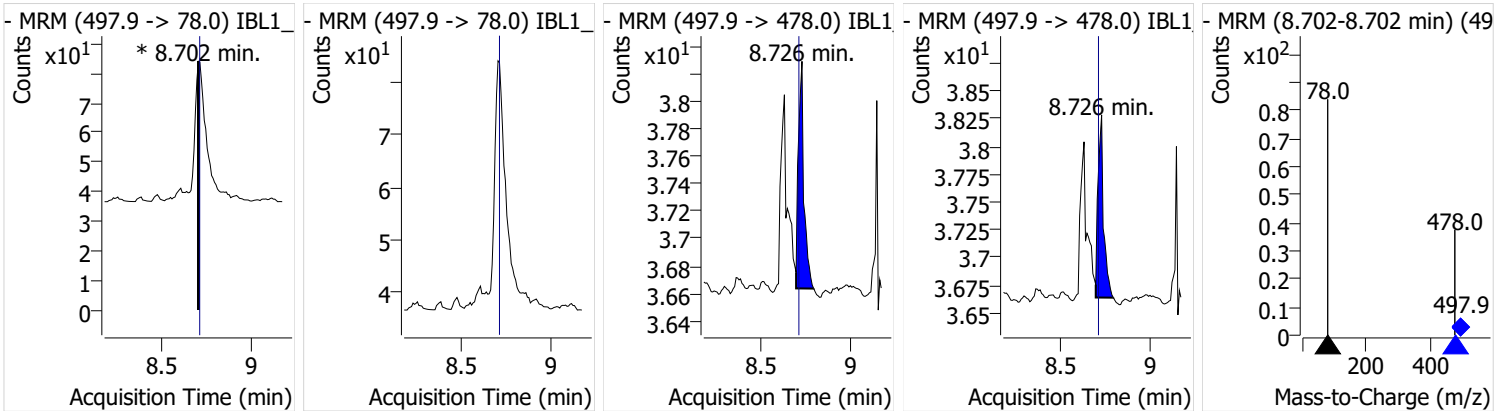

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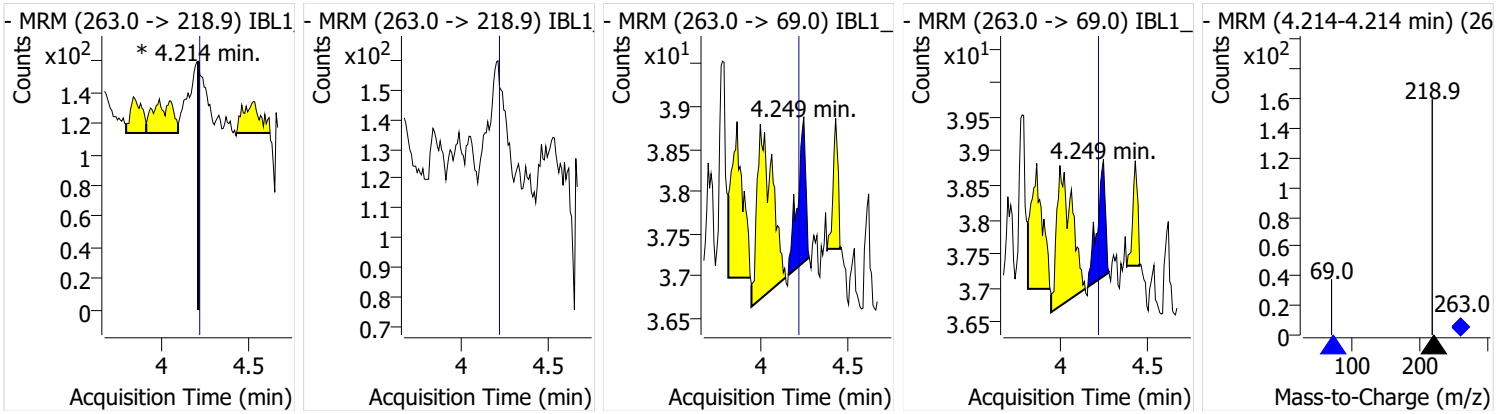
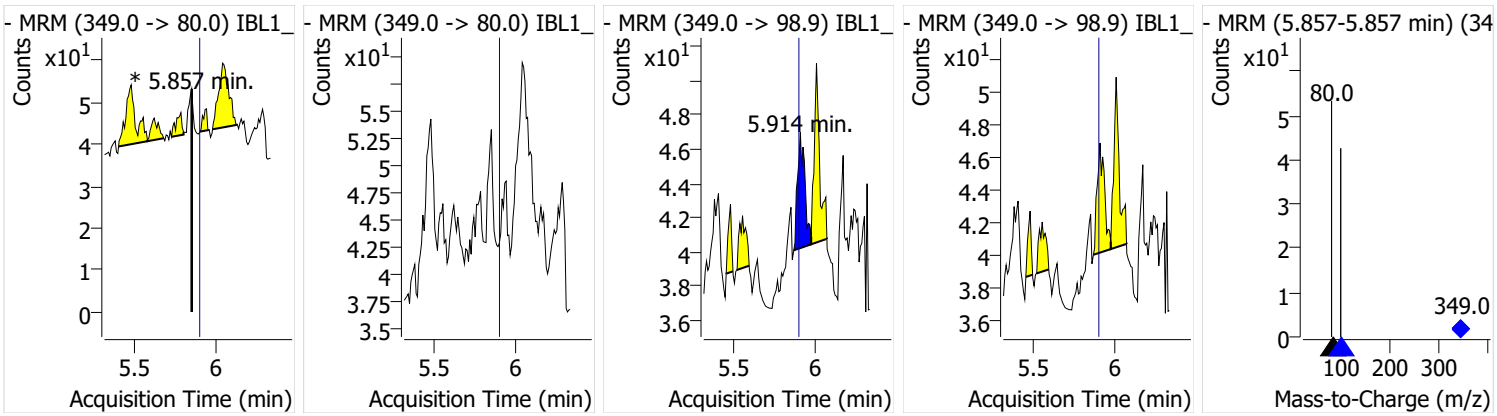
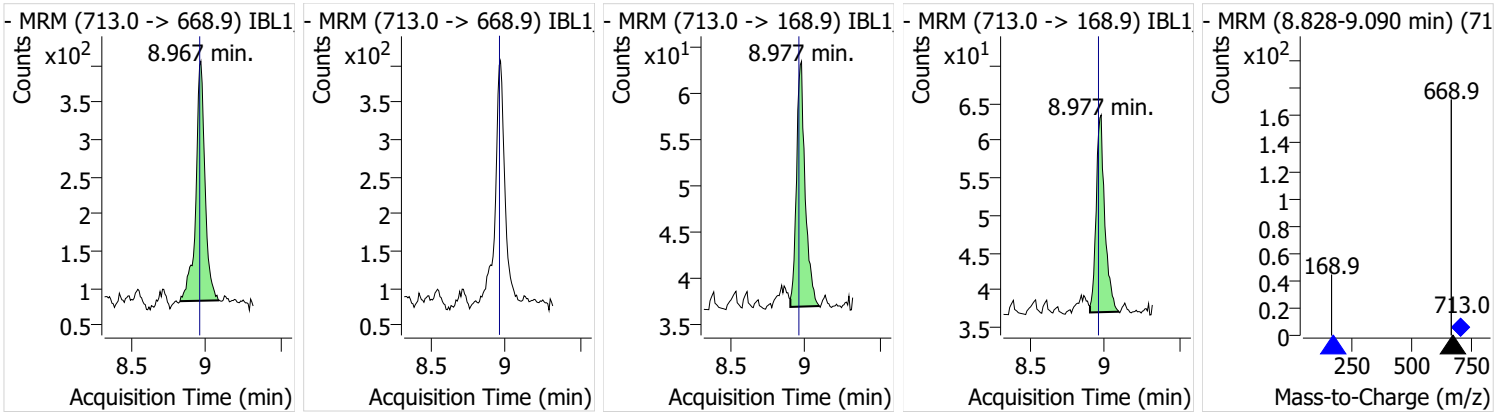


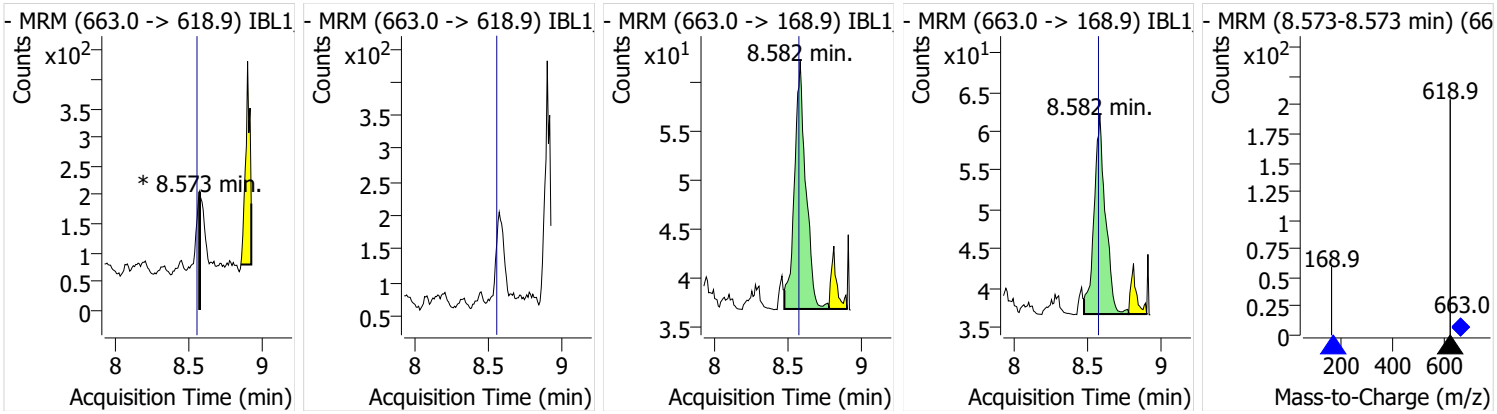
PFPeS



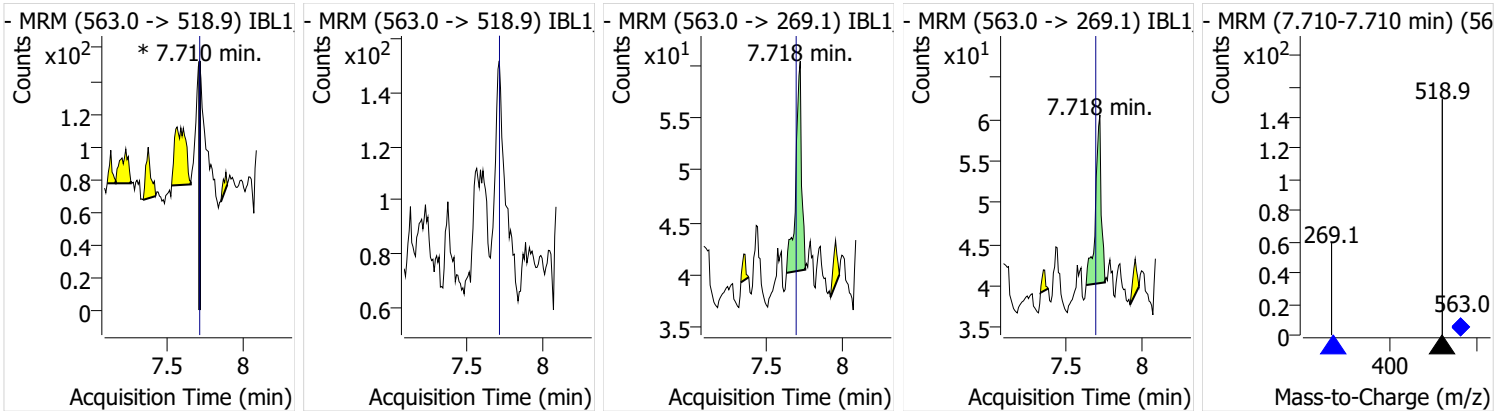
PFTeDA



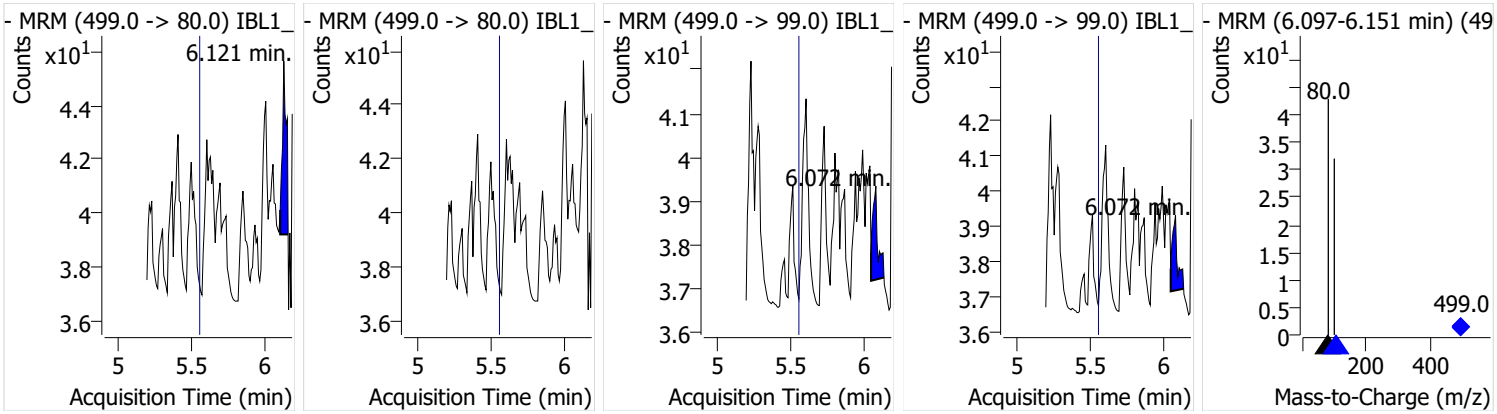
PFTrDA



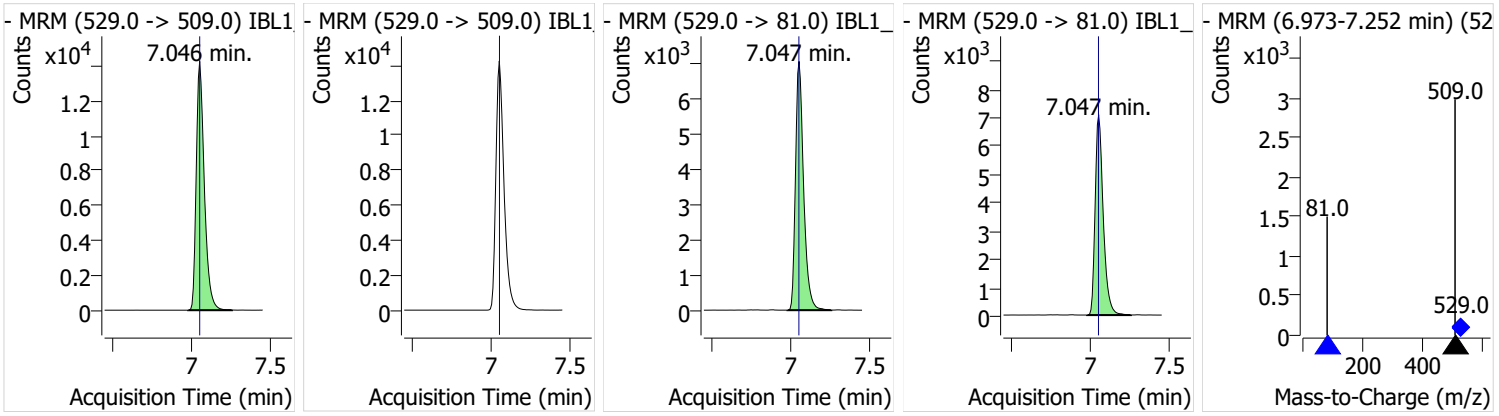
PFUnA



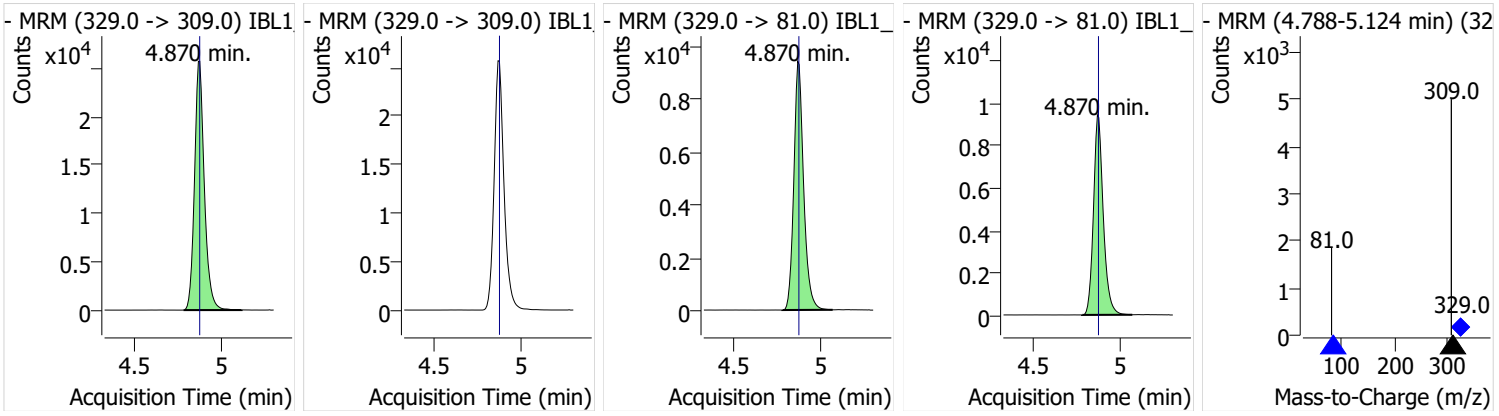
TDCA



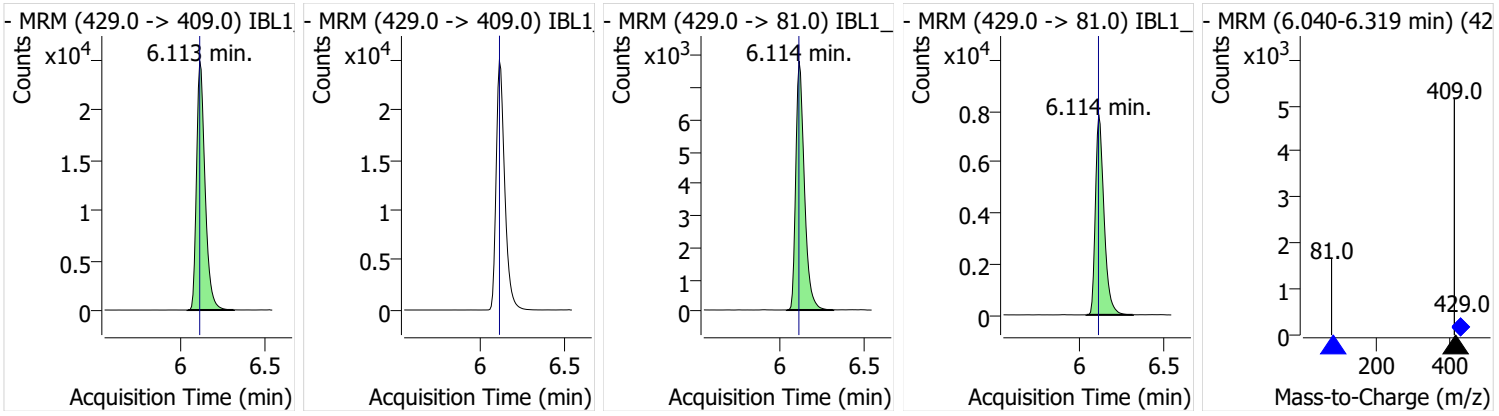
13C2-8:2FTS



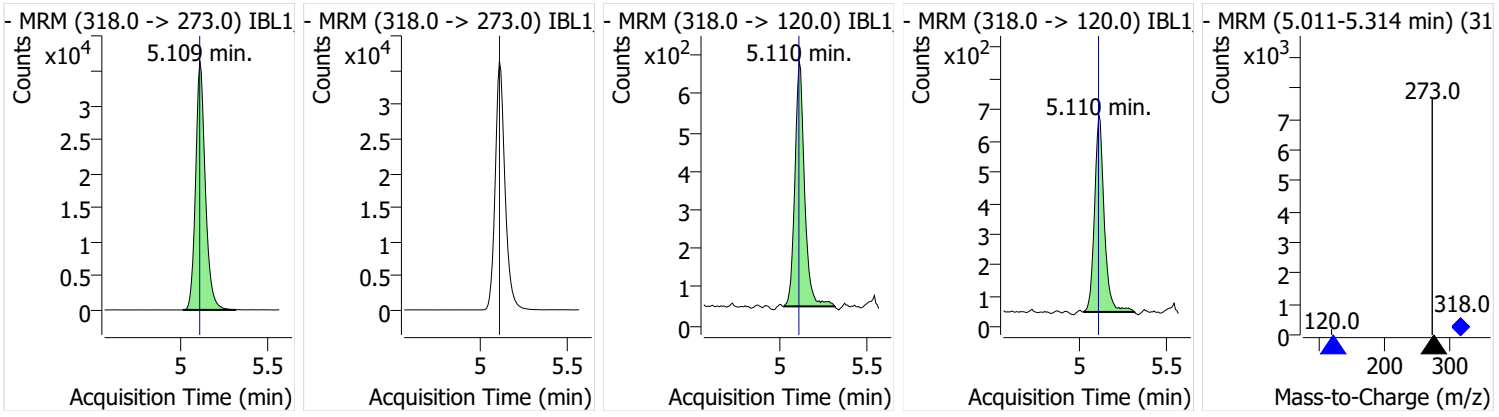
13C2-4:2FTS



13C2-6:2FTS



13C5-PFHxA



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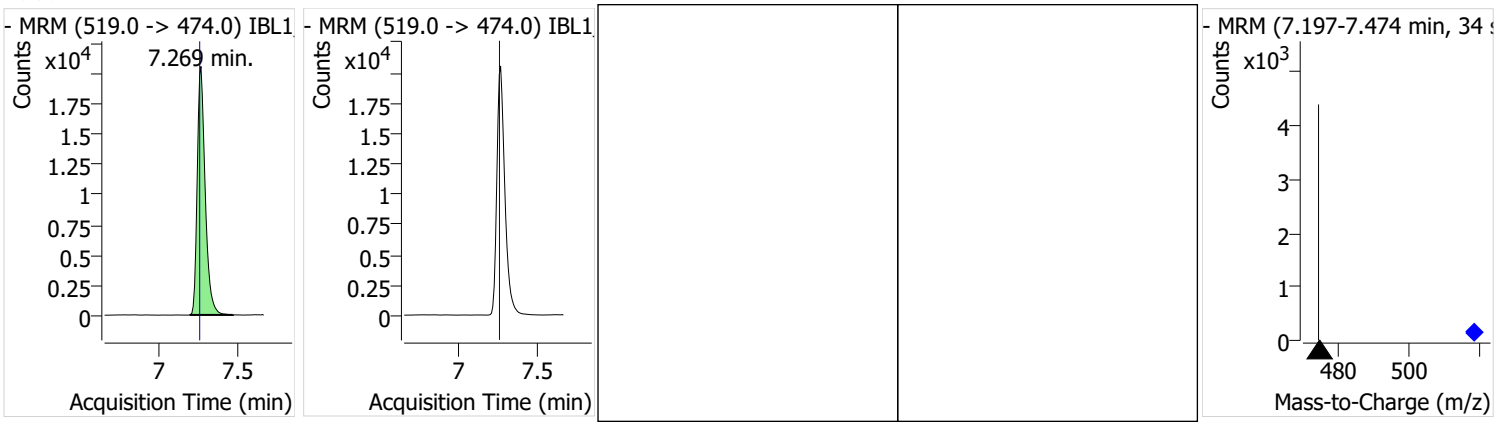

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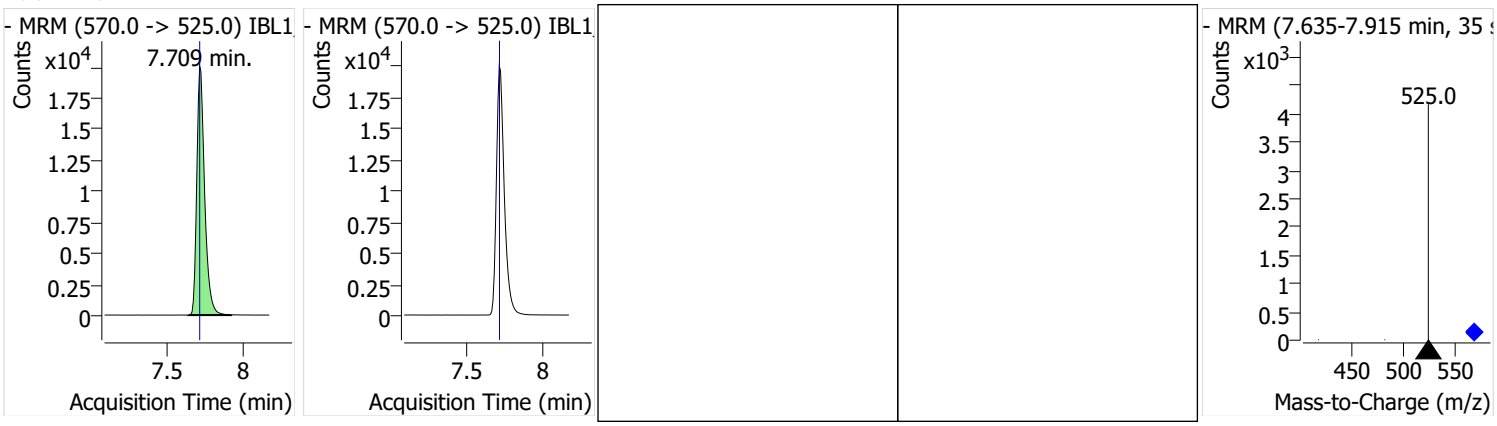

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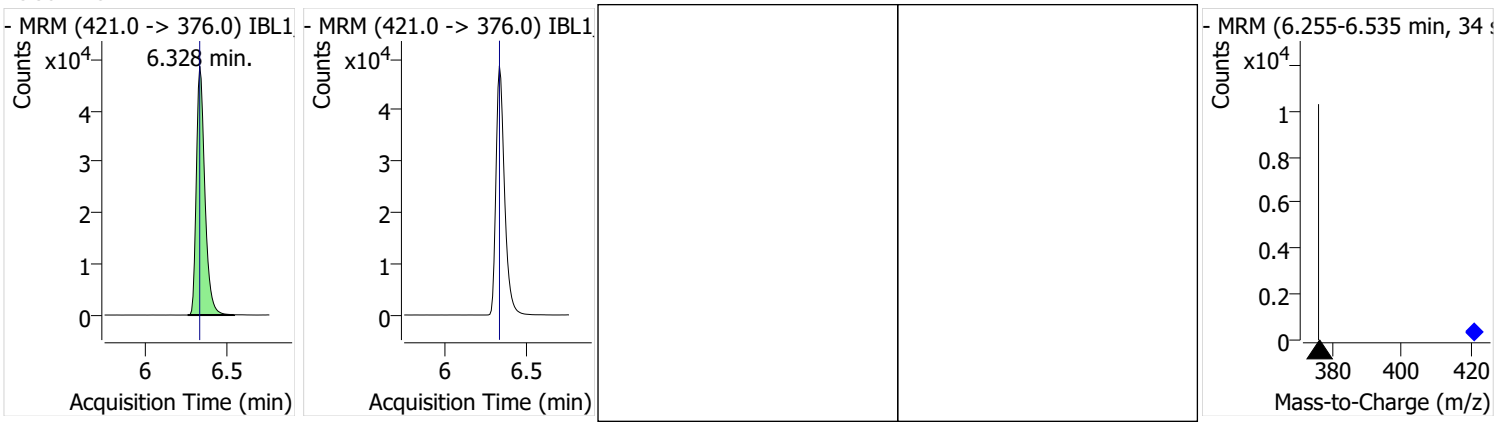

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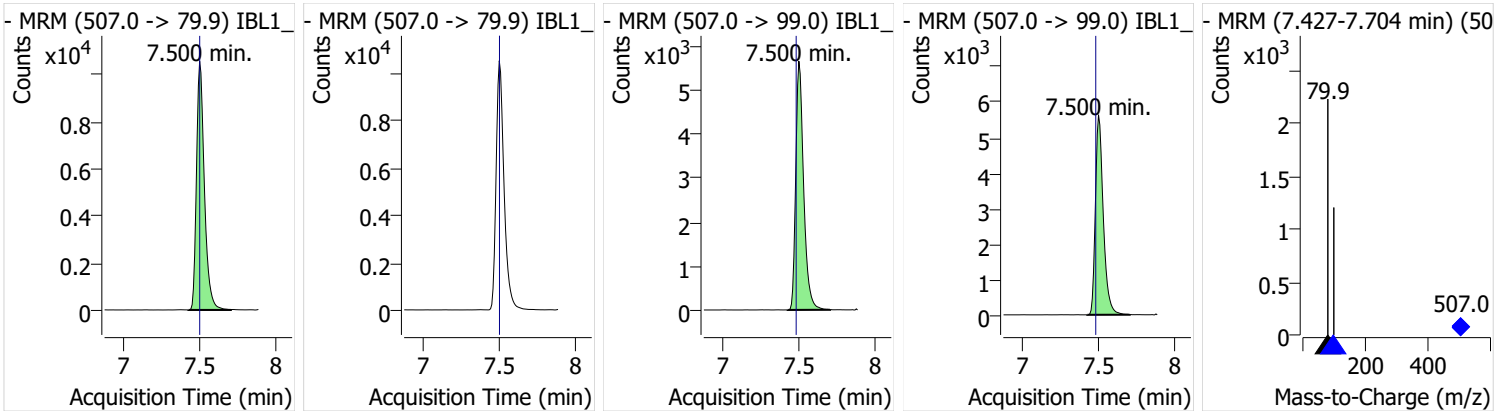

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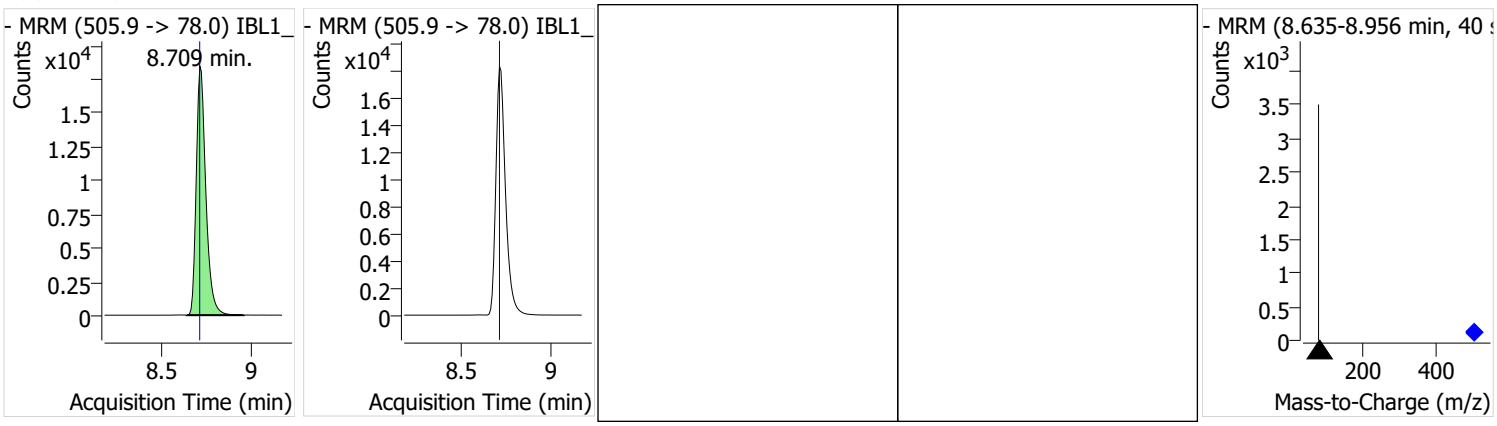

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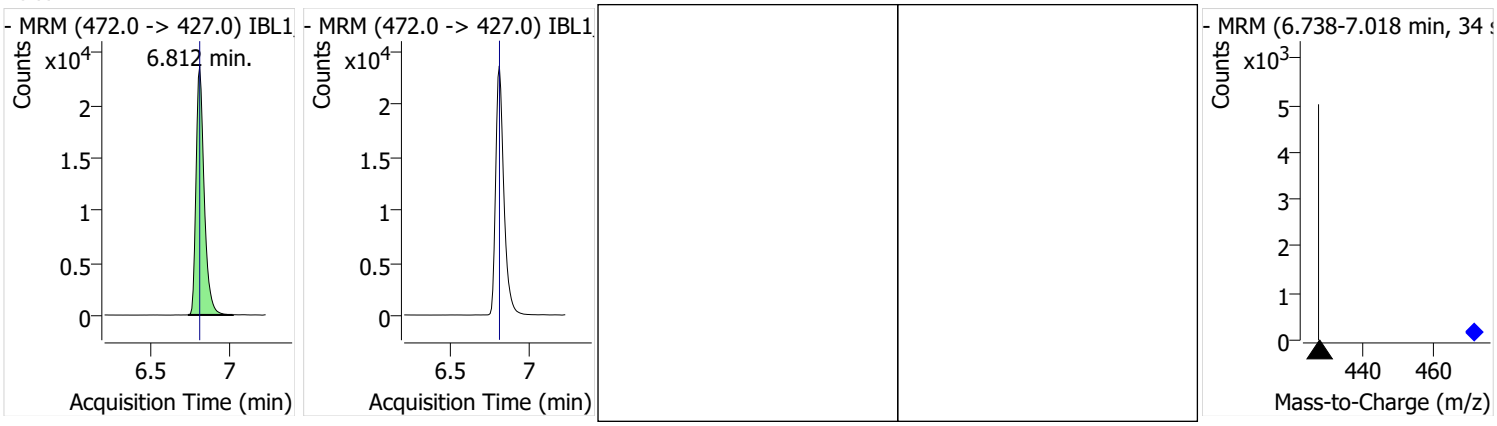

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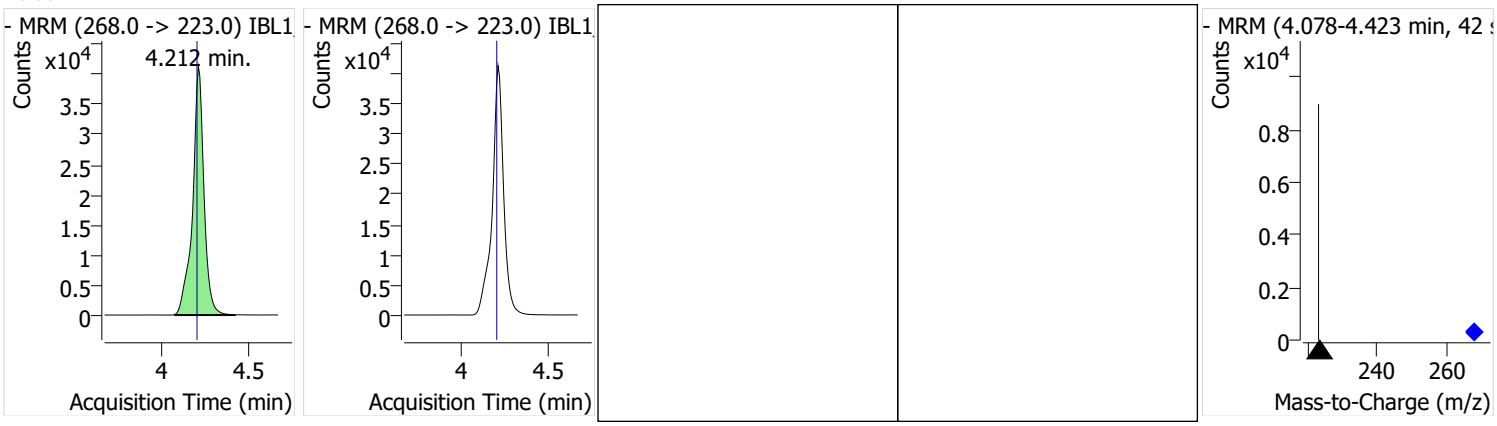

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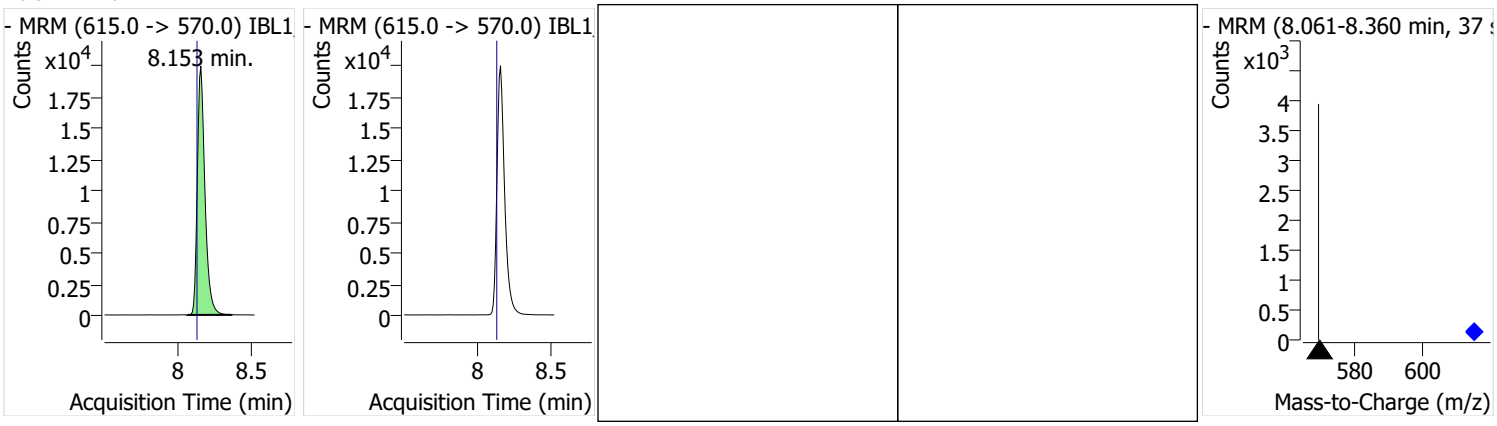

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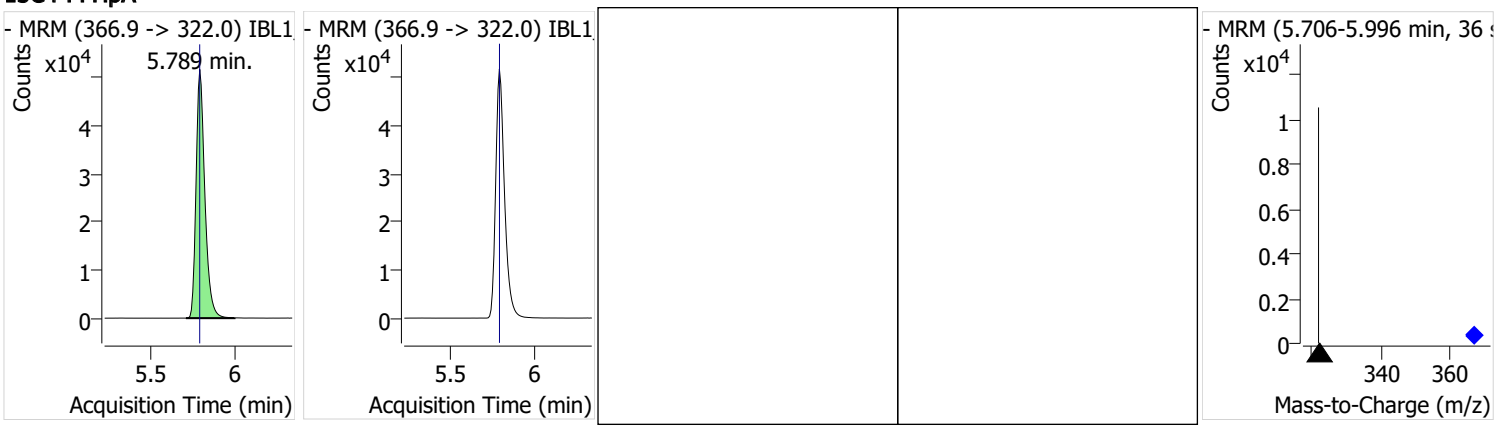

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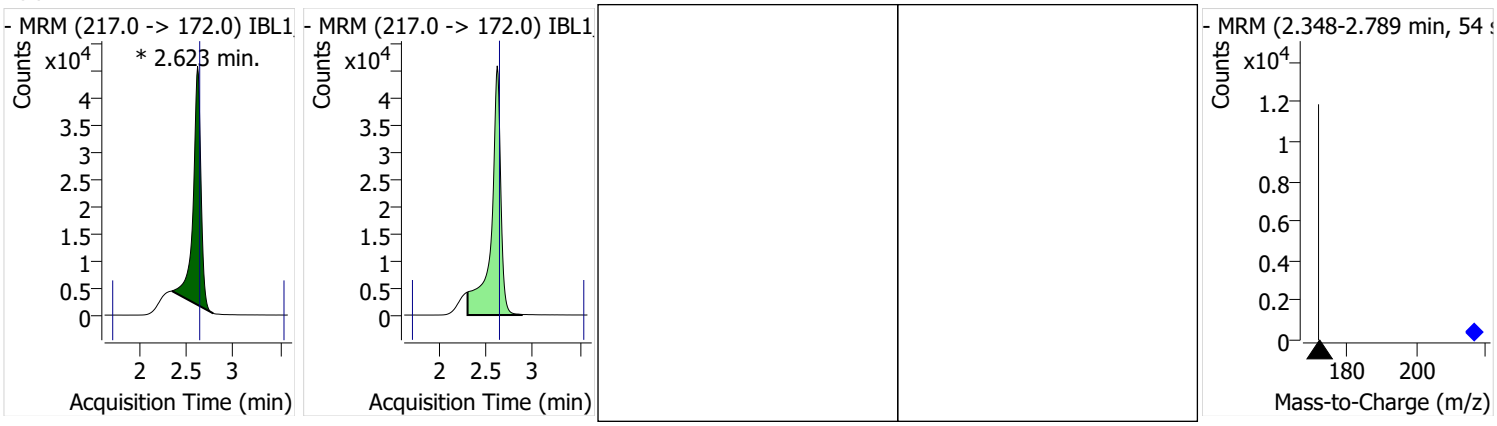

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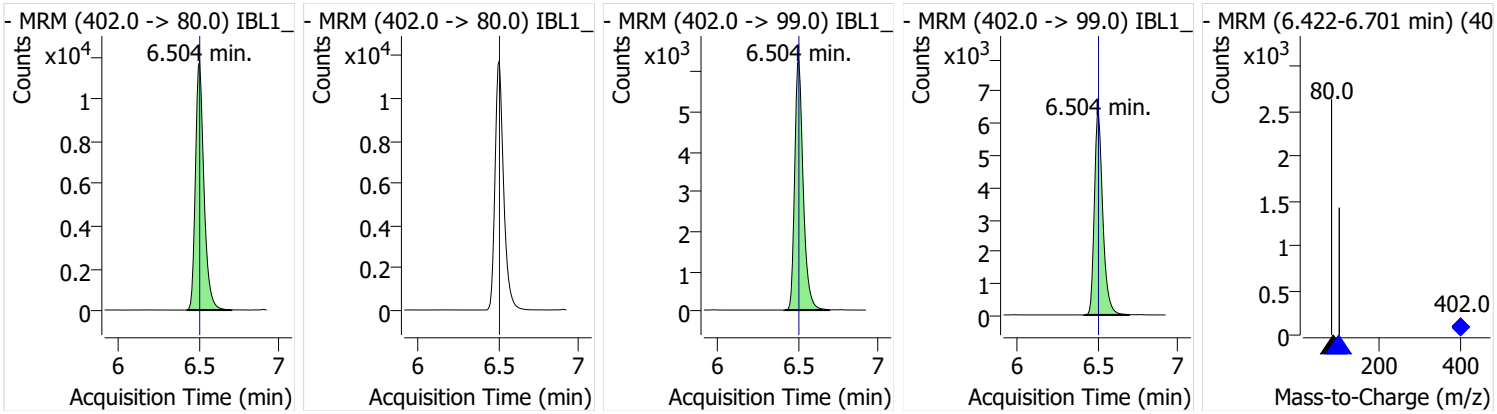
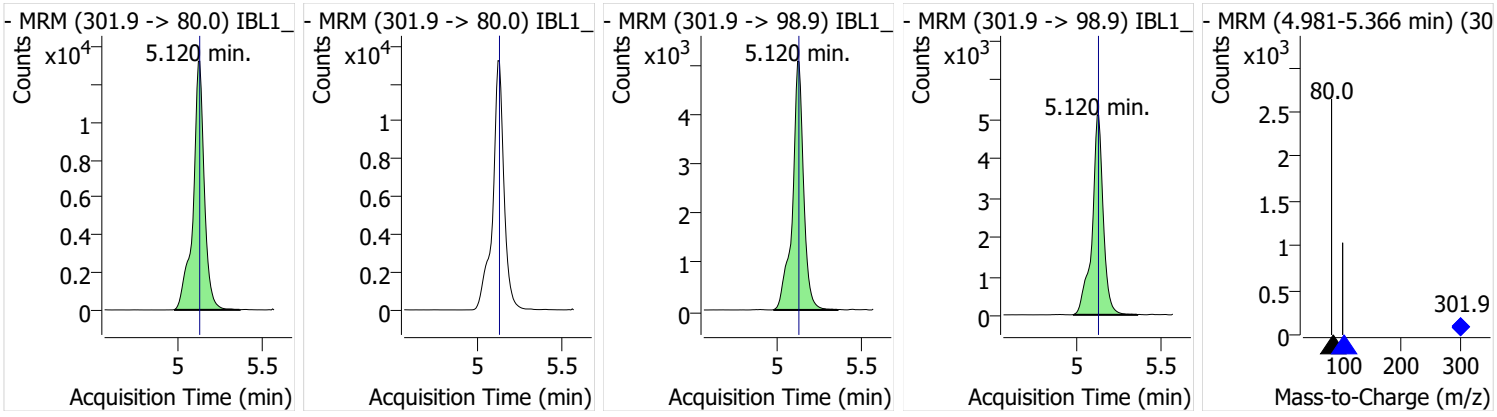
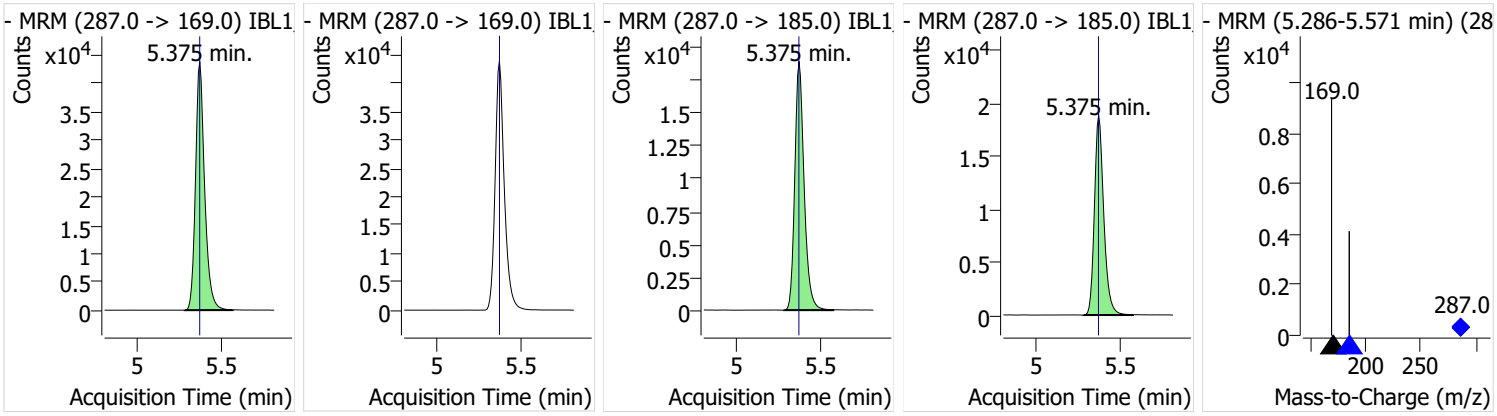


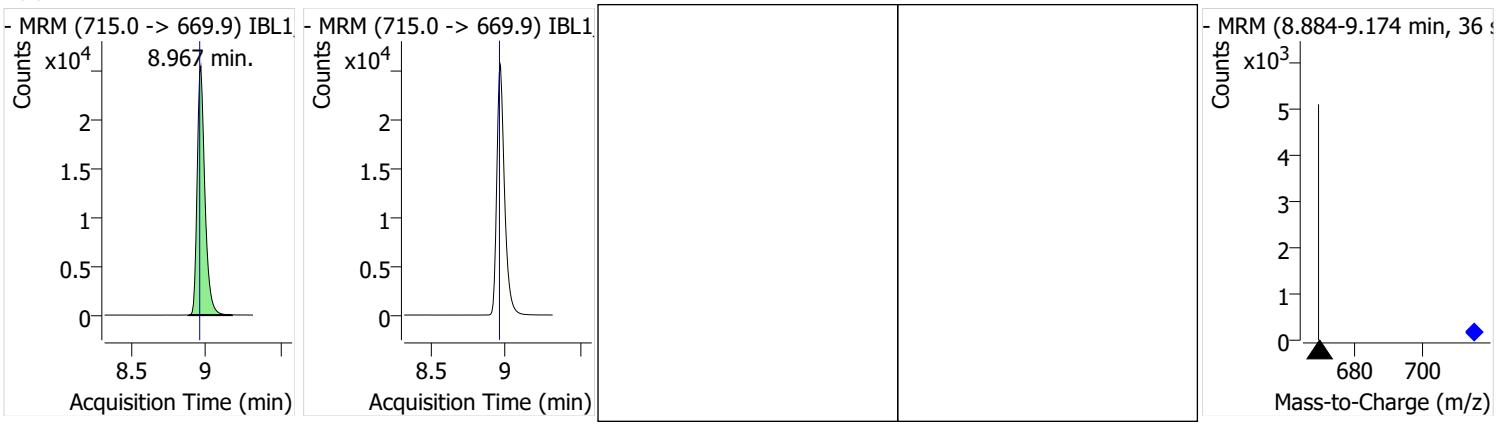
13C3-PFBS



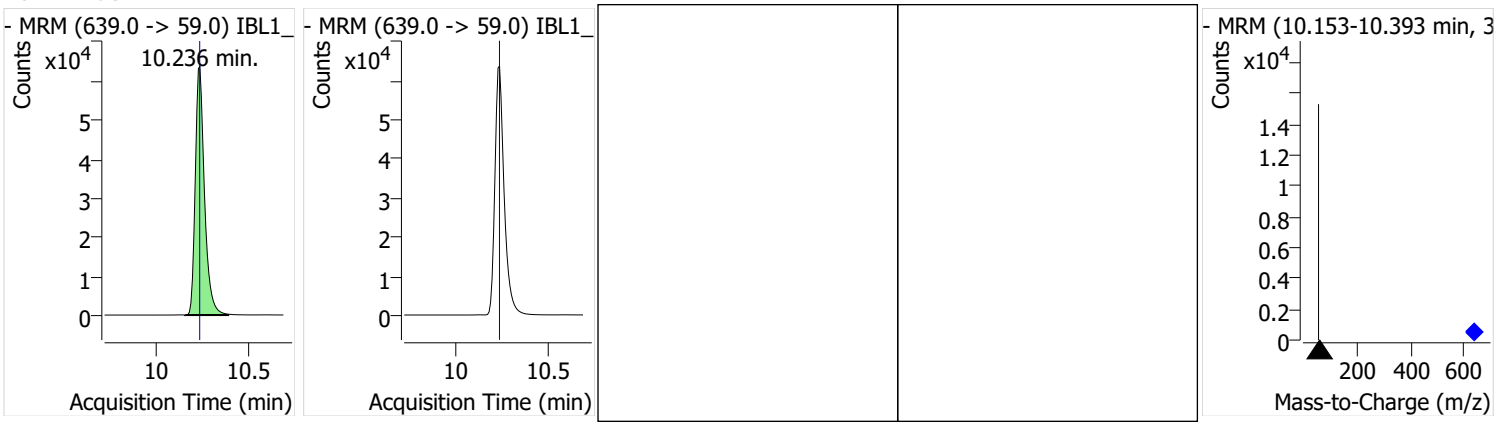
13C3-HFPODA



13C2-PFTeDA



D9-NEtFOSE



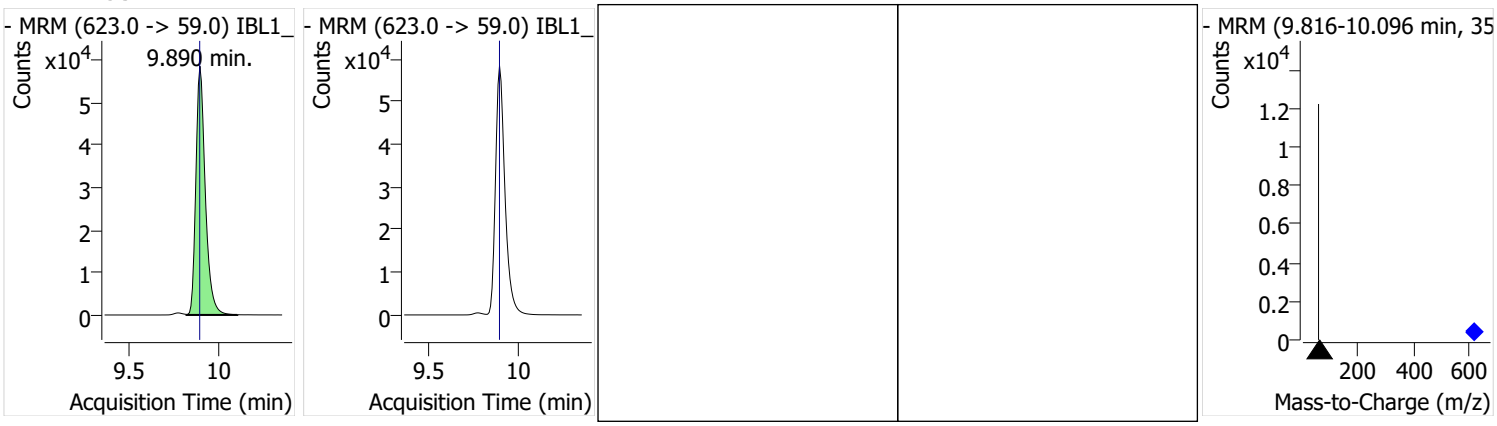
D3-NMeFOSA

D3-NMeFOSAA

D5-NEtFOSA

D5-NEtFOSAA

D7-NMeFOSE



CRDL STANDARD

Draft Method 1633

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	QQQ6	Calibration:	2400518
Sequence:	S104823		

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
B374213-MRL1	Perfluorobutanoic acid (PFBA)	0.799	0.704	88.1	µg/kg wet	44 - 157
	Perfluoropentanoic acid (PFPeA)	0.399	0.303	75.8	µg/kg wet	57 - 148
	Perfluorohexanoic acid (PFHxA)	0.200	0.155	77.5	µg/kg wet	62 - 149
	Perfluoroheptanoic acid (PFHpA)	0.200	0.146	73.2	µg/kg wet	56 - 150
	Perfluorooctanoic acid (PFOA)	0.200	0.167	83.5	µg/kg wet	57 - 161
	Perfluorononanoic acid (PFNA)	0.200	0.147	73.5	µg/kg wet	53 - 157
	Perfluorodecanoic acid (PFDA)	0.200	0.163	81.5	µg/kg wet	43 - 158
	Perfluoroundecanoic acid (PFUnA)	0.200	0.146	73.1	µg/kg wet	50 - 155
	Perfluorododecanoic acid (PFDoA)	0.200	0.160	80.0	µg/kg wet	60 - 141
	Perfluorotridecanoic acid (PFTrDA)	0.200	0.158	79.0	µg/kg wet	52 - 140
	Perfluorotetradecanoic acid (PFTeDA)	0.200	0.148	74.1	µg/kg wet	52 - 156
	Perfluorobutanesulfonic acid (PFBS)	0.177	0.131	73.9	µg/kg wet	63 - 145
	Perfluoropentanesulfonic acid (PFPeS)	0.188	0.158	84.3	µg/kg wet	58 - 144
	Perfluorohexanesulfonic acid (PFHxS)	0.183	0.152	83.2	µg/kg wet	44 - 158
	Perfluoroheptanesulfonic acid (PFHpS)	0.190	0.142	74.8	µg/kg wet	51 - 150
	Perfluorooctanesulfonic acid (PFOS)	0.185	0.141	76.4	µg/kg wet	43 - 162
	Perfluorononanesulfonic acid (PFNS)	0.192	0.144	74.7	µg/kg wet	46 - 151
	Perfluorodecanesulfonic acid (PFDS)	0.193	0.151	78.1	µg/kg wet	50 - 144
	Perfluorododecanesulfonic acid (PFDoS)	0.194	0.145	74.9	µg/kg wet	30 - 138
	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	0.749	0.583	77.9	µg/kg wet	52 - 158
	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	0.759	0.603	79.4	µg/kg wet	48 - 158
	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	0.769	0.672	87.4	µg/kg wet	46 - 165
	Perfluorooctanesulfonamide (PFOSA)	0.200	0.163	81.8	µg/kg wet	47 - 163
	N-methyl perfluoroocatnesulfonamide (NMeFOSA)	0.200	0.158	78.9	µg/kg wet	54 - 155

CRDL STANDARD

Draft Method 1633

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	QQQ6	Calibration:	2400518
Sequence:	S104823		

B374213-MRL1	N-ethyl perfluorooctanesulfonamide (NEtFOSA)	0.200	0.159	79.4	µg/kg wet	49 - 156
	N-MeFOSAA (NMeFOSAA)	0.200	0.150	75.0	µg/kg wet	32 - 160
	N-EtFOSAA (NEtFOSAA)	0.200	0.170	85.1	µg/kg wet	51 - 154
	N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	2.00	1.79	89.7	µg/kg wet	56 - 151
	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	2.00	1.83	91.6	µg/kg wet	60 - 147
	Hexafluoropropylene oxide dimer acid (HFPO-DA)	0.799	0.627	78.6	µg/kg wet	58 - 154
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.754	0.588	78.0	µg/kg wet	61 - 148
	9Cl-PF3ONS (F53B Minor)	0.749	0.636	84.9	µg/kg wet	44 - 167
	11Cl-PF3OUdS (F53B Major)	0.754	0.654	86.7	µg/kg wet	36 - 158
	3-Perfluoropropyl propanoic acid (FPrPA)(3:3FTCA)	2.00	1.32	65.9	µg/kg wet	32 - 161
	2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	9.98	7.13	71.4	µg/kg wet	39 - 156
	3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTCA)	9.98	7.14	71.5	µg/kg wet	36 - 149
	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	0.355	0.337	94.8	µg/kg wet	56 - 144
	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.399	0.344	86.2	µg/kg wet	48 - 150
	Perfluoro-4-methoxybutanoic acid (PFMBA)	0.399	0.343	86.0	µg/kg wet	49 - 154
	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.399	0.397	99.3	µg/kg wet	47 - 160
	13C4-PFBA	9.98	8.88	88.9	µg/kg wet	10 - 130
	13C5-PFPeA	4.99	4.60	92.2	µg/kg wet	35 - 150
	13C5-PFHxA	2.50	2.24	89.7	µg/kg wet	55 - 150
	13C4-PFHpA	2.50	2.46	98.4	µg/kg wet	55 - 150
	13C8-PFOA	2.50	2.23	89.2	µg/kg wet	60 - 140
	13C9-PFNA	1.25	1.12	89.8	µg/kg wet	55 - 140
	13C6-PFDA	1.25	1.10	88.3	µg/kg wet	50 - 140
	13C7-PFUnA	1.25	1.16	93.1	µg/kg wet	30 - 140
	13C2-PFDoA	1.25	1.07	85.8	µg/kg wet	10 - 150
	13C2-PFTeDA	1.25	1.07	86.0	µg/kg wet	10 - 130
	13C3-PFBS	2.50	2.34	93.8	µg/kg wet	55 - 150

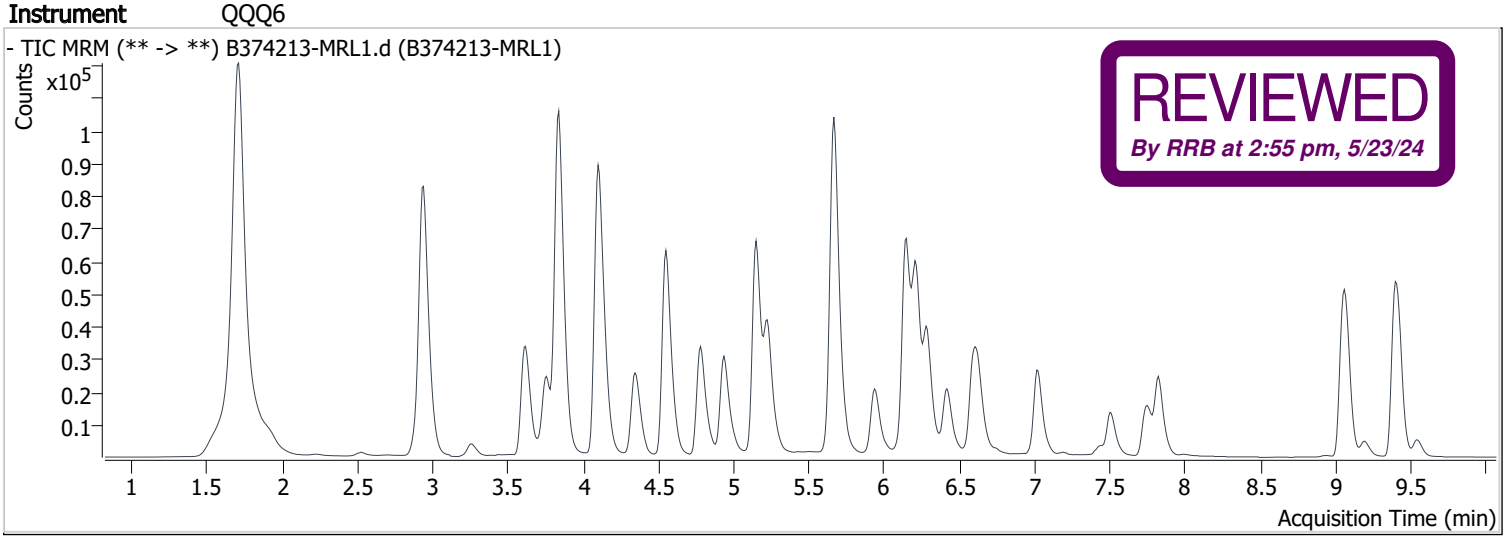
CRDL STANDARD

Draft Method 1633

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	QQQ6	Calibration:	2400518
Sequence:	S104823		

B374213-MRL1	13C3-PFHxS	2.50	2.18	87.3	µg/kg wet	55 - 150
	13C8-PFOS	2.50	2.31	92.4	µg/kg wet	45 - 140
	13C2-4:2FTS	4.99	5.31	106	µg/kg wet	60 - 200
	13C2-6:2FTS	4.99	5.48	110	µg/kg wet	60 - 200
	13C2-8:2FTS	4.99	5.33	107	µg/kg wet	50 - 200
	13C8-PFOSA	2.50	2.16	86.5	µg/kg wet	30 - 130
	D3-NMeFOSA	2.50	1.66	66.4	µg/kg wet	15 - 130
	D5-NEtFOSA	2.50	1.71	68.5	µg/kg wet	10 - 130
	D3-NMeFOSAA	4.99	6.37	128	µg/kg wet	45 - 200
	D5-NEtFOSAA	4.99	5.20	104	µg/kg wet	10 - 200
	D7-NMeFOSE	25.0	18.5	74.0	µg/kg wet	10 - 150
	D9-NEtFOSE	25.0	18.1	72.7	µg/kg wet	10 - 150
	13C3-HFPO-DA	9.98	9.37	93.9	µg/kg wet	25 - 160

Batch Path	R:\Data\MAY2024\051724\QuantResults\B374213.batch.bin		
Analysis Time	5/23/2024 5:54 AM	**Last Calib Update**	5/9/2024 9:16 AM
Acq. Time	5/18/2024 7:00 AM	**Data File**	B374213-MRL1.d
Sample Type	QC	**Sample Name**	B374213-MRL1
Dilution	1	**Acq. Method**	1633_ACQUISITION_01.m
Sample Comment		**Processing method**	1633_050824.m
Instrument	QQQ6		



Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
11Cl-PF3OUdS	7.501	45565	6202.54		13C3-HFPODA - ISTD	4.103	235750	0.6549	ng/ml			
633.0 -> 453.0			972.45	22.6								
3:3FTCA	2.513	3477	1045.29		13C5-PFPeA - ISTD	2.937	370959	1.3186	ng/ml			
241.0 -> 117.0			127.11	49.1								
4:2FTS	3.606	12309	824.66		13C2-4:2FTS - ISTD	3.614	36115	0.5839	ng/ml			
327.0 -> 80.9			793.07	38.1								
5:3FTCA	4.343	57311	6744.99		13C5-PFHxA - ISTD	3.836	201327	7.1440	ng/ml			
341.0 -> 217.0			4601.82	91.6								
6:2FTS	4.934	10306	582.91		13C2-6:2FTS - ISTD	4.933	25205	0.6036	ng/ml			
427.0 -> 80.9			662.90	31.8								
7:3FTCA	5.658	67556	5069.82		13C5-PFHxA - ISTD	3.836	201327	7.1507	ng/ml			
441.0 -> 317.0			6108.31	88.9								
8:2FTS	5.926	6848	1417.17		13C2-8:2FTS - ISTD	5.934	19921	0.6733	ng/ml			
527.0 -> 81.0			1262.79	42.9								
9Cl-PF3ONS	6.630	49528	2773.02		13C3-HFPODA - ISTD	4.103	235750	0.6366	ng/ml			
533.0 -> 353.0			278.56	31.3								
ADONA	4.781	103096	8370.65		13C3-HFPODA - ISTD	4.103	235750	0.5886	ng/ml			
377.0 -> 85.1			7618.36	36.2								
HFPO-DA	4.104	13635	2383.23		13C3-HFPODA - ISTD	4.103	235750	0.6285	ng/ml			
285.0 -> 184.9			545.30	56.2								
NEtFOSA	9.548	1402	1340.86		D5-NEtFOSA - ISTD	9.538	17004	0.1588	ng/ml			

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
526.0 -> 219.0			4957.57	93.0								
NEtFOSAA	6.423	3305	592.54		D5-NEtFOSAA - ISTD	6.414	80178	0.1703	ng/ml	✔	3	ALB 5/22/24
584.0 -> 526.0			305.75	64.3								
NEtFOSE	9.420	18370	9401.10		D9-NEtFOSE - ISTD	9.394	224400	1.8324	ng/ml			
NFDHA	3.750	2703	1703.68		13C5-PFHxA - ISTD	3.836	201327	0.3972	ng/ml			
295.0 -> 85.0			355.34	39.7								
NMeFOSA	9.203	1209	837.20		D3-NMeFOSA - ISTD	9.193	15807	0.1579	ng/ml	✔	3	ALB 5/22/24
512.0 -> 219.0			581.90	98.0								
NMeFOSAA	6.220	2468	665.76		D3-NMeFOSAA - ISTD	6.211	194115	0.1499	ng/ml	✔	3	ALB 5/22/24
570.0 -> 418.9			399.01	72.7								
NMeFOSE	9.074	16548	5872.40		D7-NMeFOSE - ISTD	9.057	213622	1.7940	ng/ml			
PFBA	1.704	37552	1324.30		13C4-PFBA - ISTD	1.707	577142	0.7049	ng/ml	✔	3	ALB 5/22/24
PFBS	3.758	4715	631.66		13C3-PFBS - ISTD	3.757	71973	0.1312	ng/ml			
298.9 -> 98.8			498.09	40.6								
PFDA	6.140	16388	268.63		13C6-PFDA - ISTD	6.148	121991	0.1630	ng/ml			
513.0 -> 219.0			1295.98	16.4								
PFDoA	7.020	13130	415.08		13C2-PFDoA - ISTD	7.011	99043	0.1599	ng/ml			
613.0 -> 319.0			730.77	13.5								
PFDoS	8.003	1129	850.89		13C8-PFOS - ISTD	6.289	38995	0.1453	ng/ml			
698.9 -> 99.0			383.67	63.6								
PFDS	7.189	1915	545.03		13C8-PFOS - ISTD	6.289	38995	0.1508	ng/ml			
599.0 -> 98.8			841.08	60.7								
PFEESA	4.141	34182	3422.08		13C5-PFHxA - ISTD	3.836	201327	0.3373	ng/ml			
315.0 -> 83.0			1045.95	7.9								
PFHpA	4.550	15070	470.19		13C4-PFHpA - ISTD	4.549	246943	0.1464	ng/ml			
362.9 -> 169.0			925.58	19.0								
PFHpS	5.791	2930	432.21		13C8-PFOS - ISTD	6.289	38995	0.1425	ng/ml			
449.0 -> 98.8			278.55	51.3								
PFHxA	3.838	12690	367.24		13C5-PFHxA - ISTD	3.836	201327	0.1550	ng/ml			
313.0 -> 118.9			87.05	3.6								
PFHxS	5.227	3480	502.85		13C3-PFHxS - ISTD	5.226	50614	0.1523	ng/ml	✔	3	ALB 5/22/24
398.9 -> 99.0			410.20	42.3								
PFMBA	3.255	17562	6605.70		13C5-PFPeA - ISTD	2.937	370959	0.3438	ng/ml			
PFMPA	2.225	2799	1090.98		13C5-PFPeA - ISTD	2.937	370959	0.3447	ng/ml			
PFNA	5.665	15720	625.34		13C9-PFNA - ISTD	5.664	132903	0.1471	ng/ml			
463.0 -> 219.0			654.63	20.4								
PFNS	6.752	2282	462.42		13C8-PFOS - ISTD	6.289	38995	0.1438	ng/ml			
549.0 -> 98.8			590.57	58.0								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFOA	5.149	18705	126.53		13C8-PFOA - ISTD	5.148	222998	0.1671	ng/ml	✔	3	ALB 5/22/24
413.0 -> 169.0			674.14	23.5								
PFOS	6.290	2872	242.75		13C8-PFOS - ISTD	6.289	38995	0.1417	ng/ml	✔	3	ALB 5/22/24
499.0 -> 99.0			444.58	49.9								
PFOSA	7.744	4637	39654.25		13C8-PFOSA - ISTD	7.751	64220	0.1635	ng/ml			
497.9 -> 478.0			55.39	2.2								
PFPeA	2.937	22717	479.64		13C5-PFPeA - ISTD	2.937	370959	0.3032	ng/ml			
263.0 -> 69.0			24.62	0.3								
PFPeS	4.576	4157	642.77		13C3-PFHxS - ISTD	5.226	50614	0.1585	ng/ml			
349.0 -> 98.9			651.93	46.5								
PFTeDA	7.820	10210	919.33		13C2-PFTeDA - ISTD	7.819	85574	0.1483	ng/ml			
713.0 -> 168.9			978.32	9.4								
PFTrDA	7.432	11049	383.72		13C2-PFDoA - ISTD	7.011	99043	0.1580	ng/ml			
663.0 -> 168.9			1696.70	13.6								
PFUnA	6.587	12236	550.72		13C7-PFUnA - ISTD	6.586	104136	0.1462	ng/ml			
563.0 -> 269.1			1296.02	19.7								
TDCA	6.290	1960	333.78					-	ng/ml			
499.0 -> 99.0			277.32	*62.9								
13C2-8:2FTS	5.934	19921	5784.49		18O2-PFHxS	5.233	56784	5.3373	ng/ml			
529.0 -> 509.0			12143.20	297.0								
13C2-4:2FTS	3.614	36115	9224.04		18O2-PFHxS	5.233	56784	5.3147	ng/ml			
329.0 -> 309.0			7491.90	252.8								
13C2-6:2FTS	4.933	25205	4830.83		18O2-PFHxS	5.233	56784	5.4892	ng/ml			
429.0 -> 409.0			12466.98	348.8								
13C5-PFHxA	3.836	201327	30341.09		13C2-PFHxA	3.837	217820	2.2430	ng/ml			
318.0 -> 120.0			829.45	2.0								
13C6-PFDA	6.148	121991	10145.01		13C2-PFDA	6.140	140149	1.1032	ng/ml			
13C7-PFUnA	6.586	104136	8691.06		13C2-PFDA	6.140	140149	1.1632	ng/ml			
13C8-PFOA	5.148	222998	20576.44		13C4-PFOA	5.148	36477	2.2299	ng/ml			
13C8-PFOS	6.289	38995	19822.83		13C4-PFOS	6.290	46965	2.3095	ng/ml			
507.0 -> 99.0			4278.00	51.1								
13C8-PFOSA	7.751	64220	76627.07		13C4-PFOS	6.290	46965	2.1626	ng/ml			
13C9-PFNA	5.664	132903	8584.57		13C5-PFNA	5.664	173528	1.1231	ng/ml			
13C5-PFPeA	2.937	370959	11322.35		13C2-PFHxA	3.837	217820	4.6115	ng/ml			
13C2-PFDoA	7.011	99043	11878.33		13C2-PFDA	6.140	140149	1.0719	ng/ml			
13C4-PFHpA	4.549	246943	19579.97		13C2-PFHxA	3.837	217820	2.4595	ng/ml			

Quantitative Analysis Sample Report

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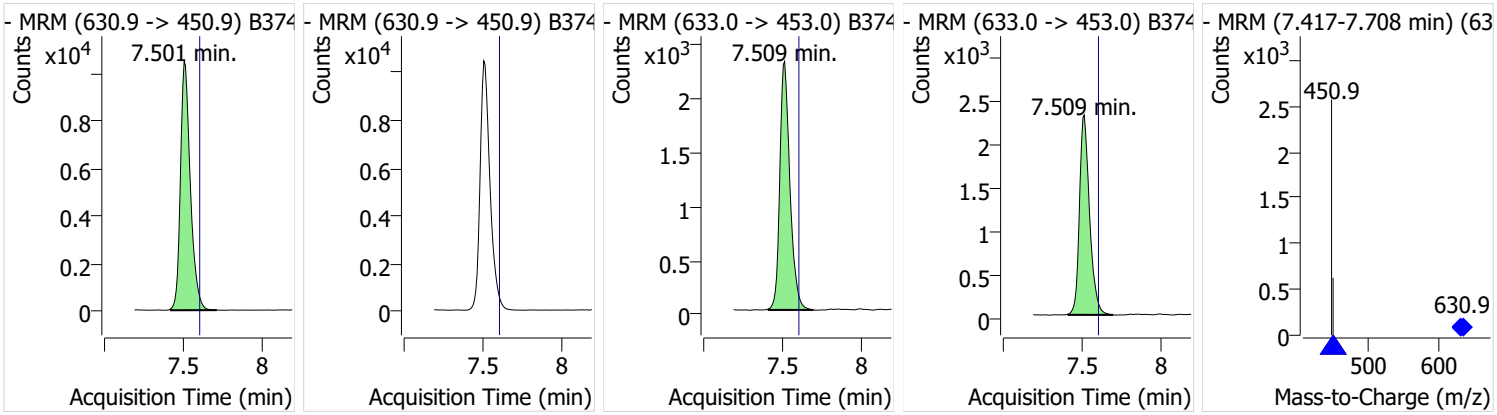
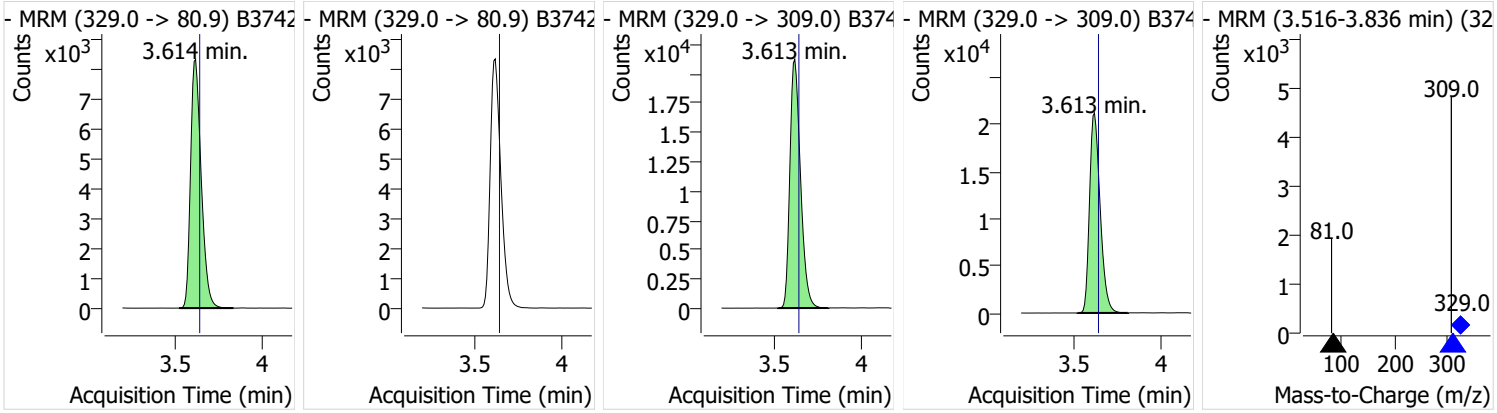
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
13C4-PFBA	1.707	577142	152565.73		13C3-PFBA	1.701	299013	8.8901	ng/ml			
13C3-PFHxS	5.226	50614	16458.71		18O2-PFHxS	5.233	56784	2.1827	ng/ml			
402.0 -> 99.0			9667.14	52.0								
13C3-PFBS	3.757	71973	16643.20		18O2-PFHxS	5.233	56784	2.3452	ng/ml			
301.9 -> 98.9			4474.90	34.7								
13C3-HFPODA	4.103	235750	21357.65		13C2-PFHxA	3.837	217820	9.3899	ng/ml			
287.0 -> 185.0			5917.79	45.9								
13C2-PFTeDA	7.819	85574	17526.76		13C2-PFDA	6.140	140149	1.0756	ng/ml			
D9-NEtFOSE	9.394	224400	78154.70		13C4-PFOS	6.290	46965	18.1716	ng/ml			
D3-NMeFOSA	9.193	15807	10138.29		13C4-PFOS	6.290	46965	1.6596	ng/ml			
D3-NMeFOSAA	6.211	194115	17908.85		13C4-PFOS	6.290	46965	6.3802	ng/ml			
D5-NEtFOSA	9.538	17004	9470.00		13C4-PFOS	6.290	46965	1.7115	ng/ml			
D5-NEtFOSAA	6.414	80178	7591.48		13C4-PFOS	6.290	46965	5.2079	ng/ml			
D7-NMeFOSE	9.057	213622	101763.68		13C4-PFOS	6.290	46965	18.5103	ng/ml			

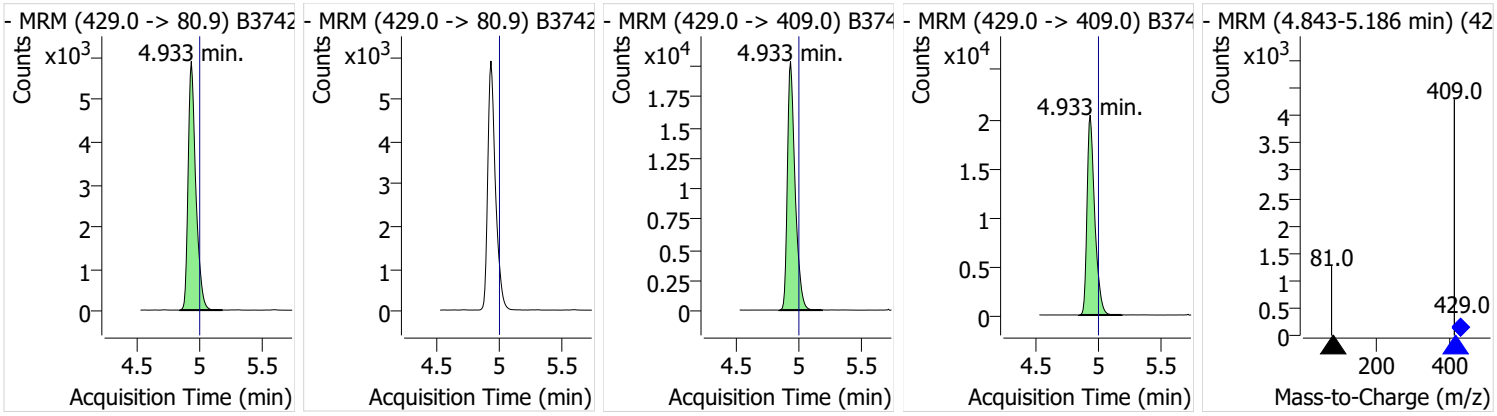
11Cl-PF3OUdS



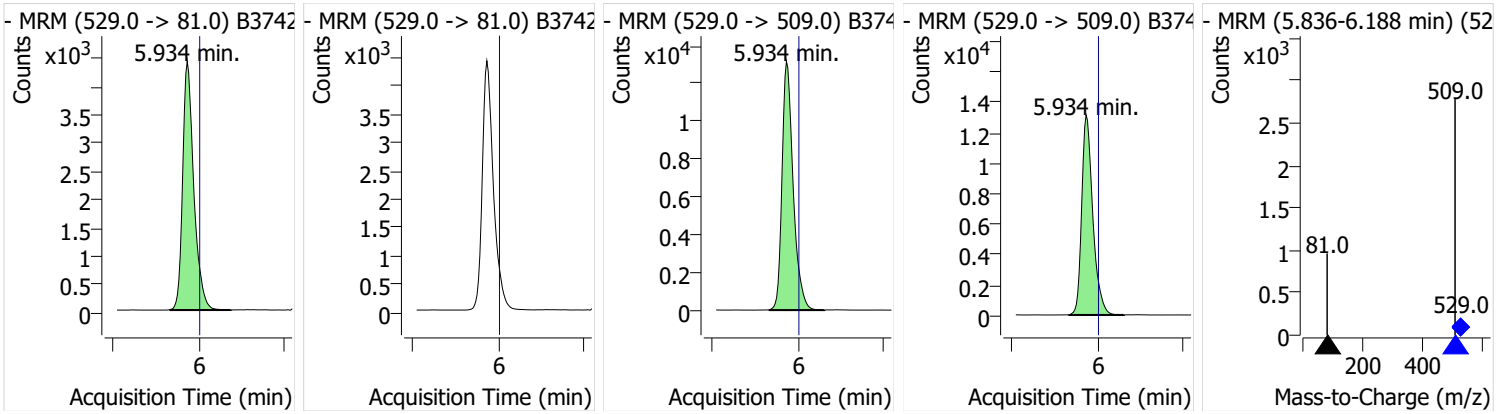
13C2-4:2FTS - ISTD



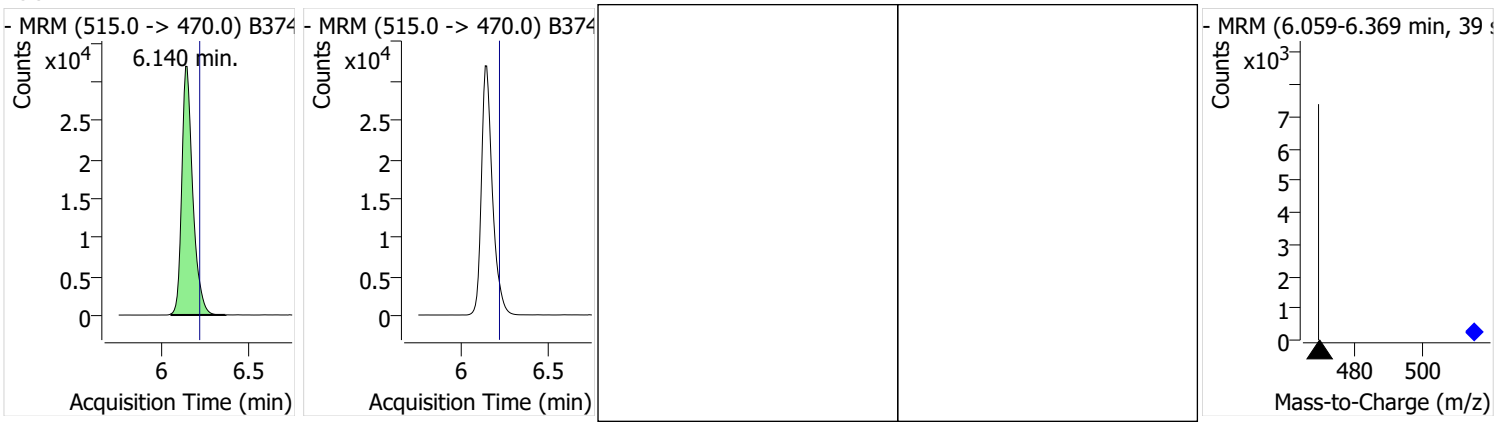
13C2-6:2FTS - ISTD



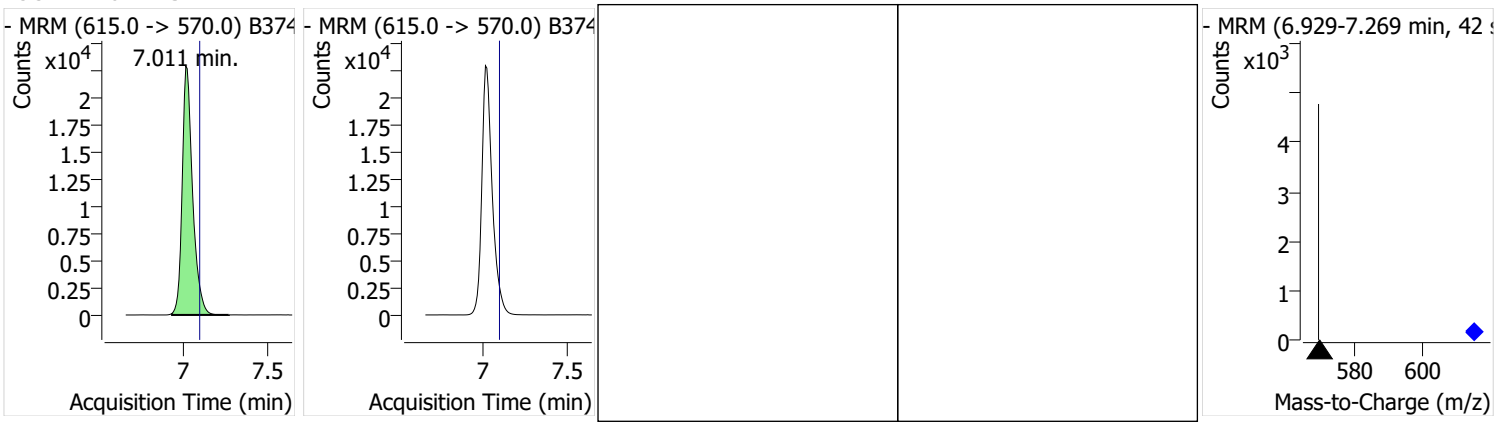
13C2-8:2FTS - ISTD



13C2-PFDA



13C2-PFDoA - ISTD



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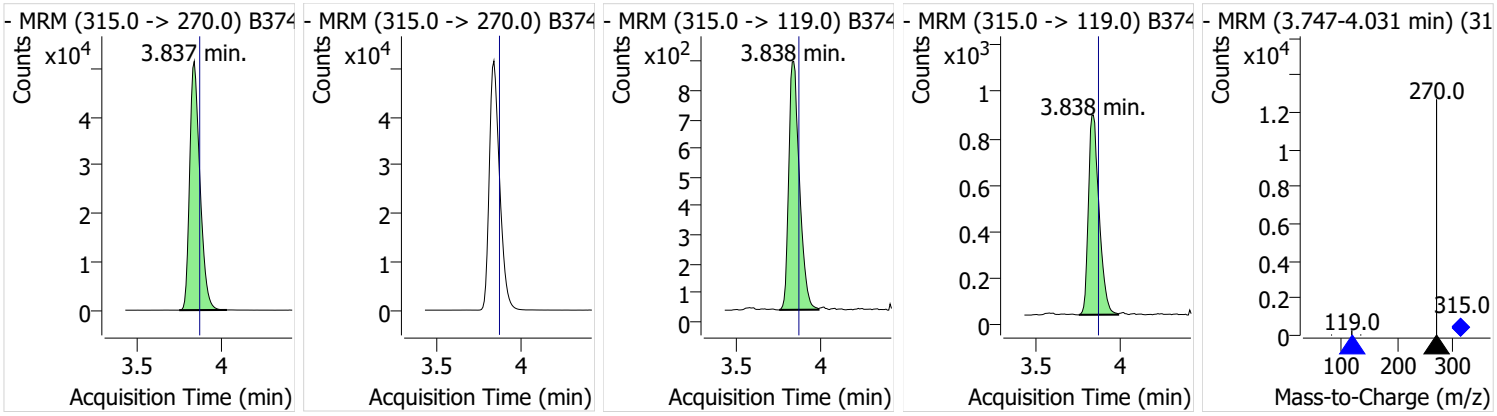
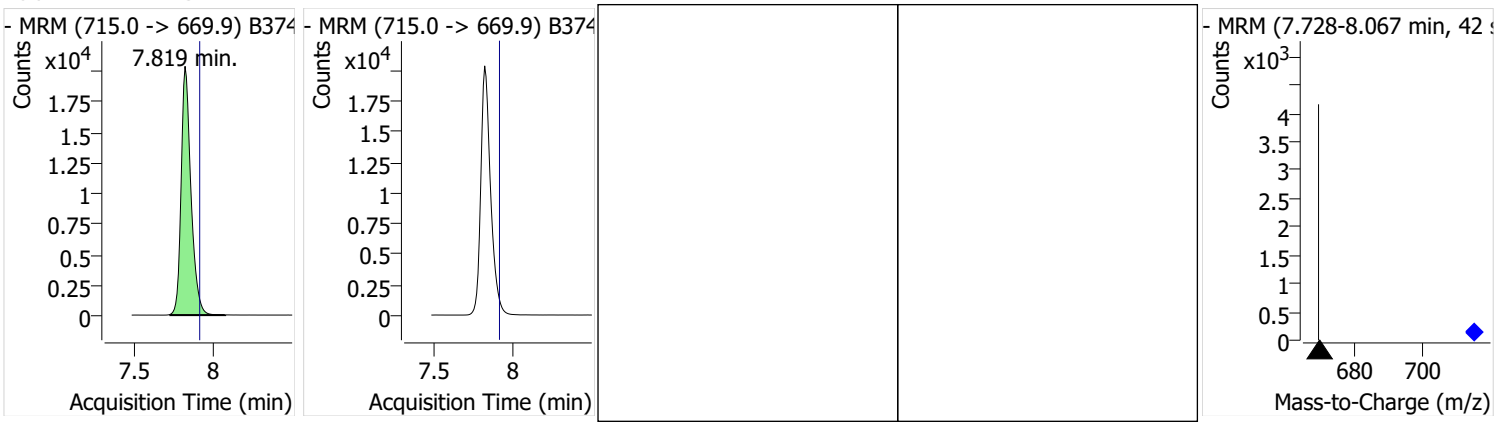
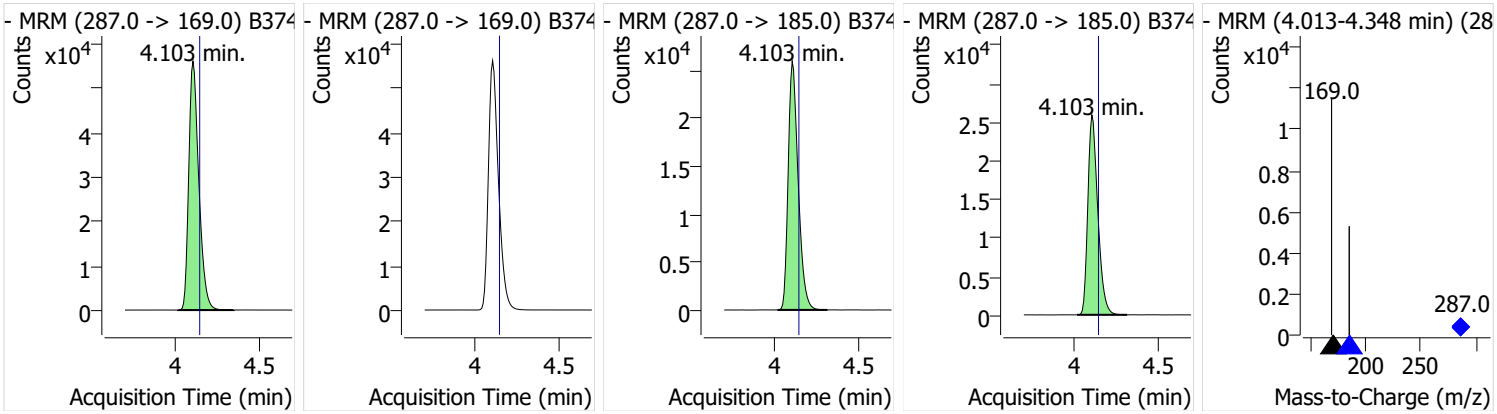


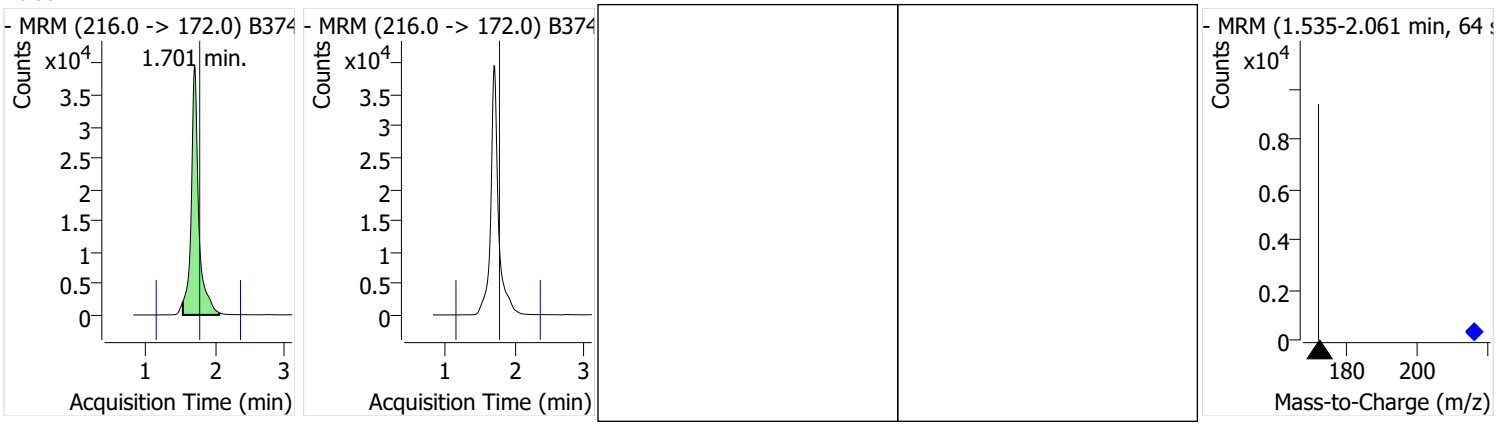
13C2-PFTeDA - ISTD



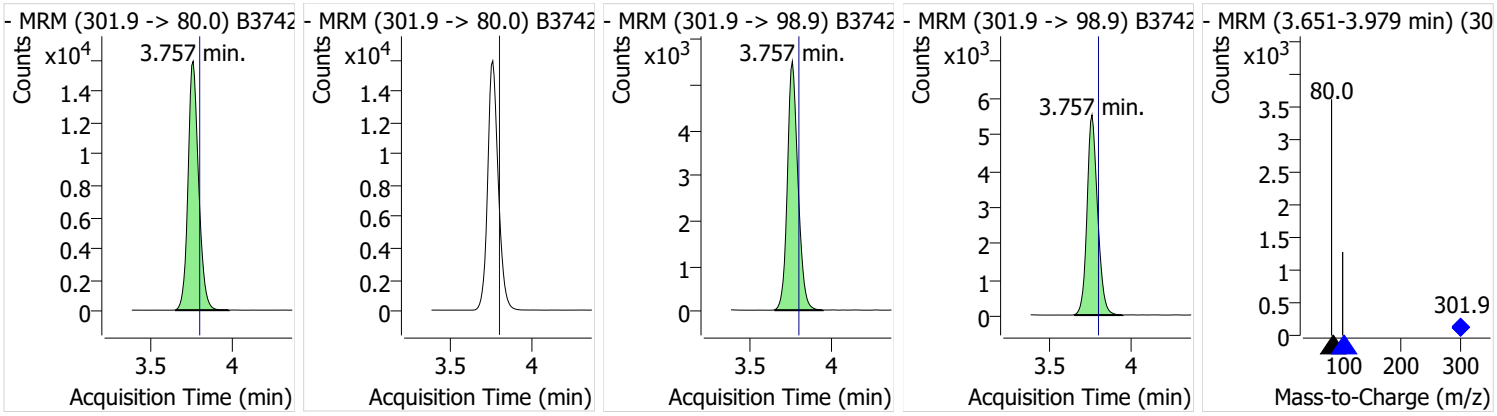
13C3-HFPODA - ISTD



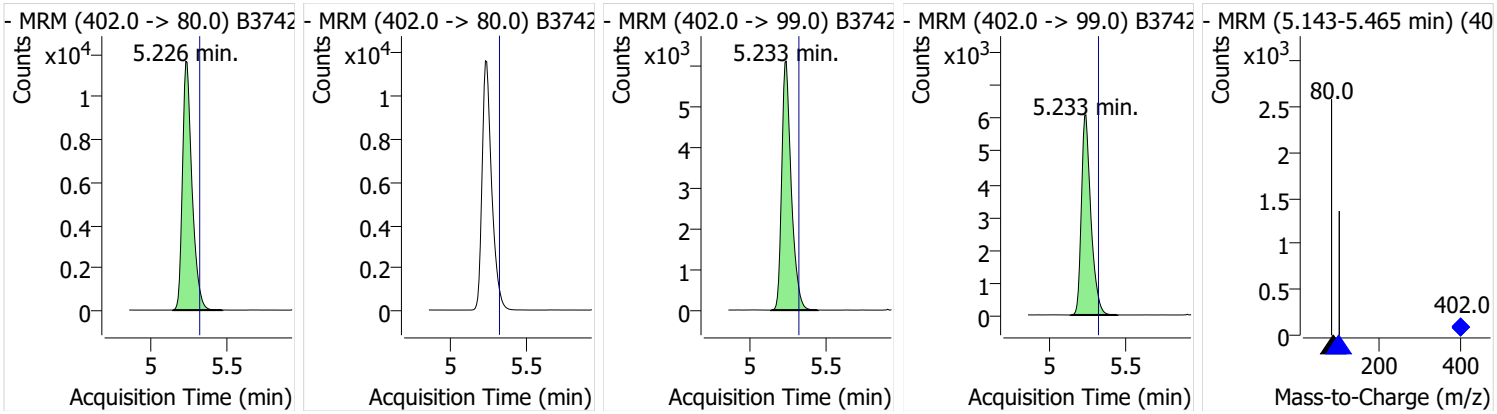
13C3-PFBA



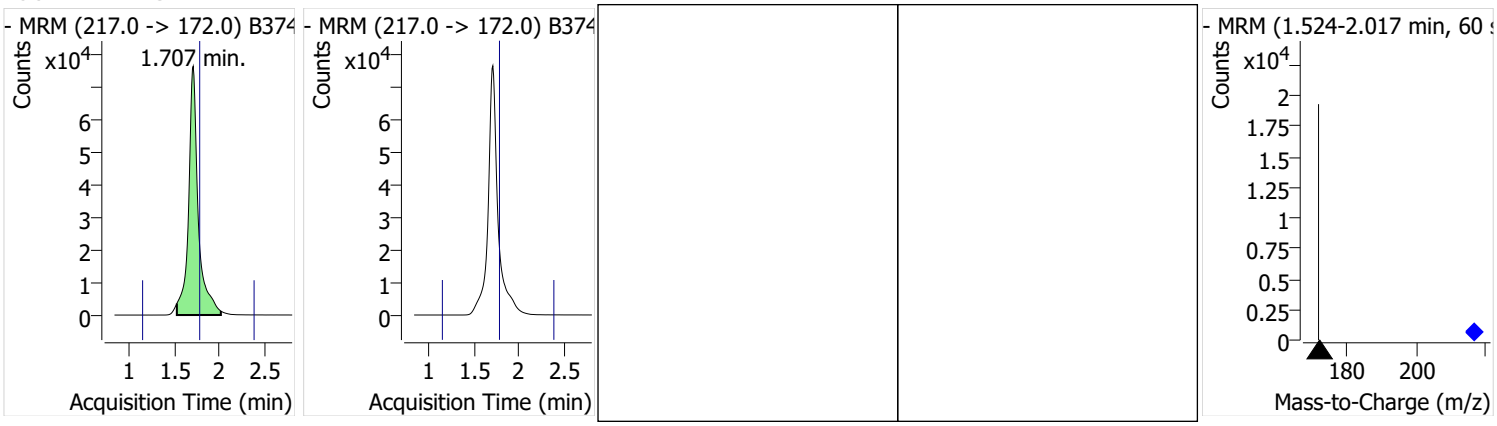
13C3-PFBS - ISTD



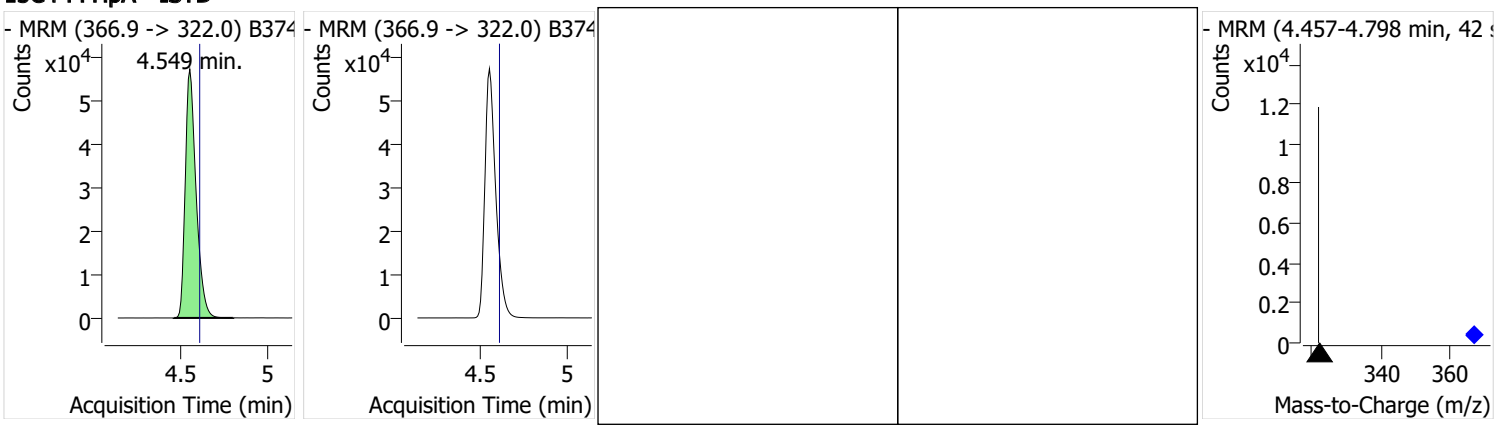
13C3-PFHxS - ISTD



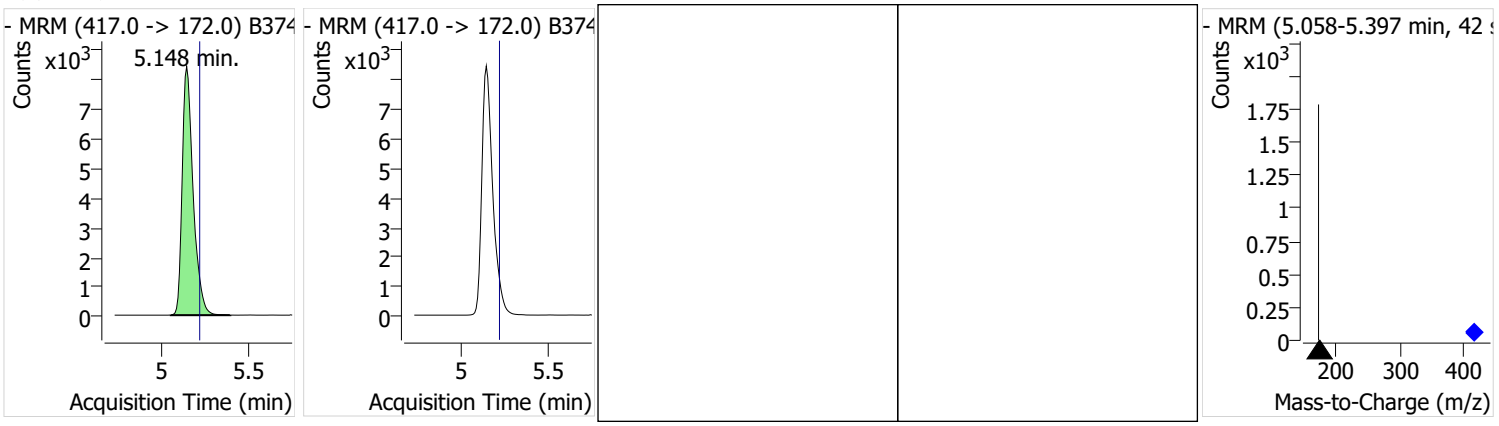
13C4-PFBA - ISTD



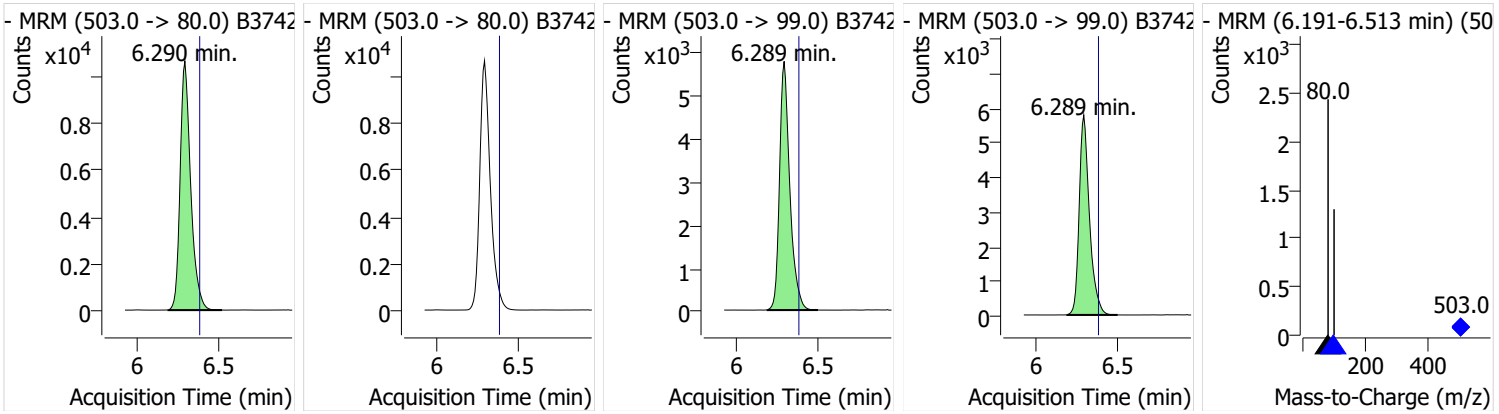
13C4-PFHpA - ISTD



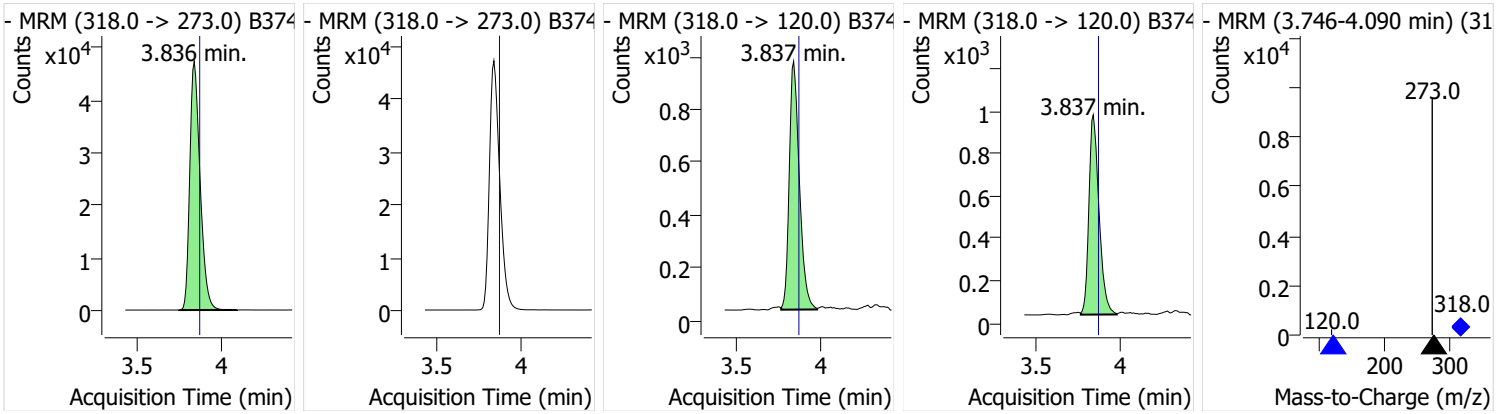
13C4-PFOA



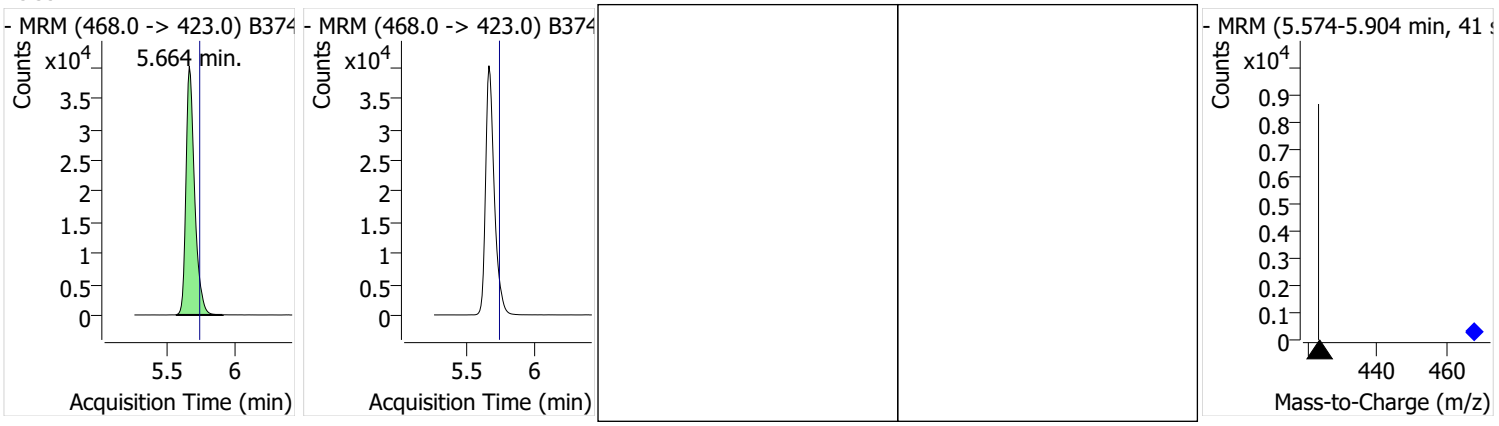
13C4-PFOS



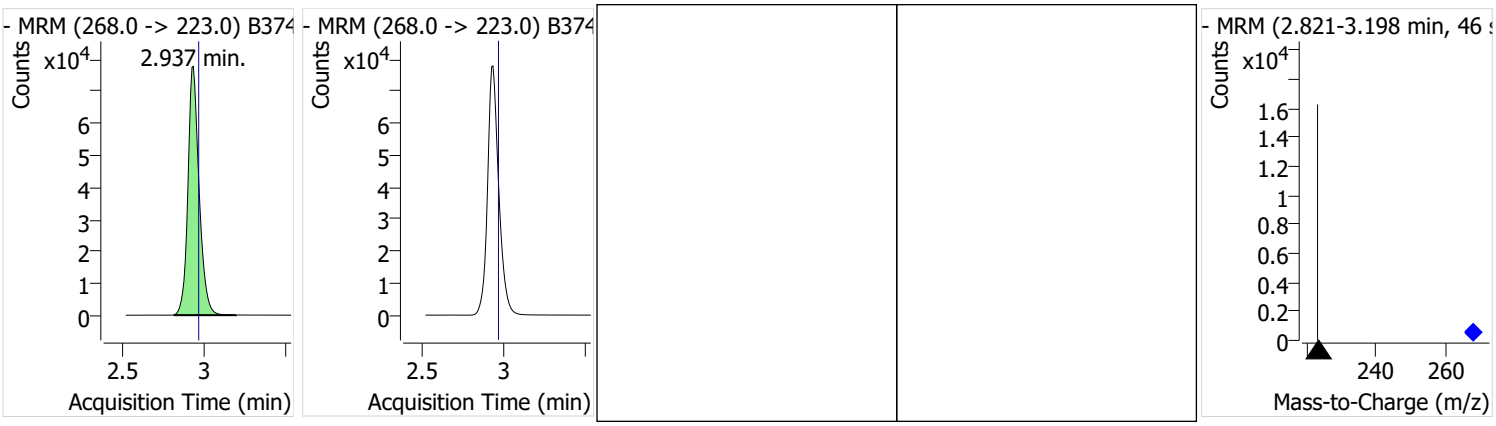
13C5-PFHxA - ISTD



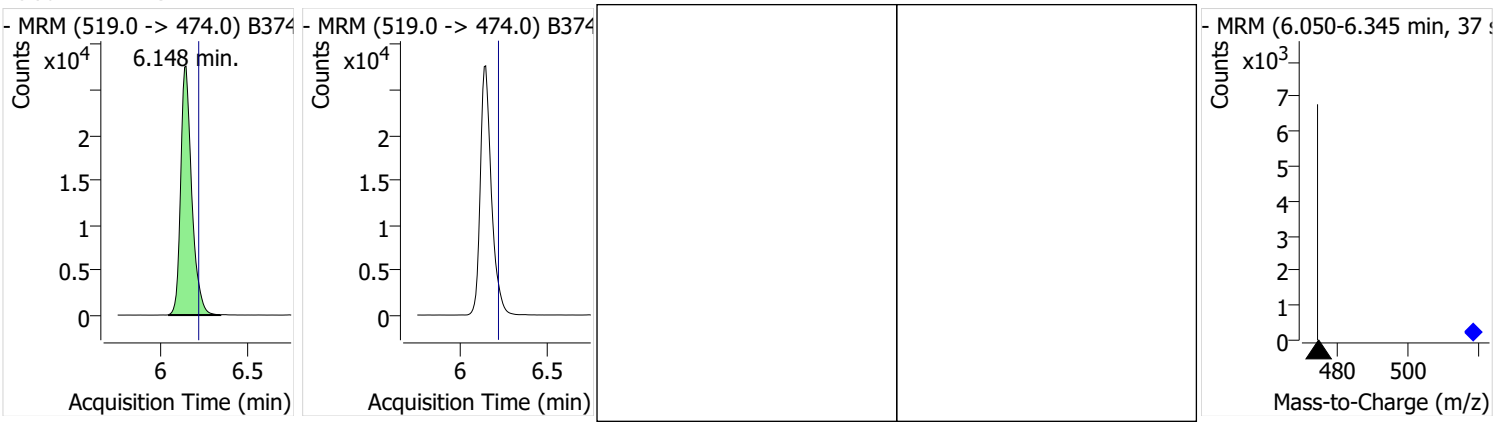
13C5-PFNA



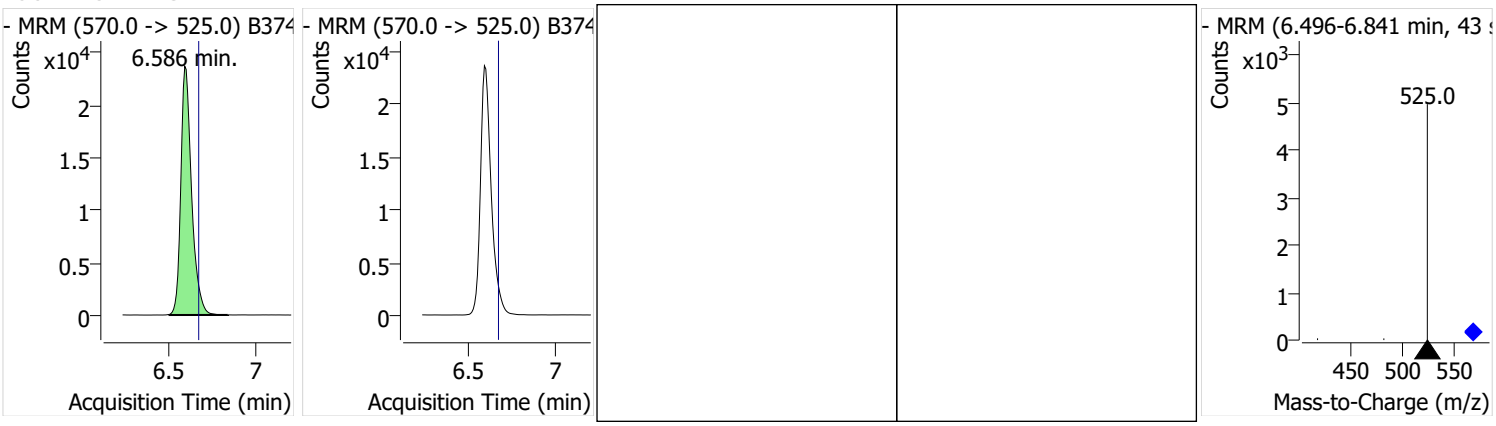
13C5-PFPeA - ISTD



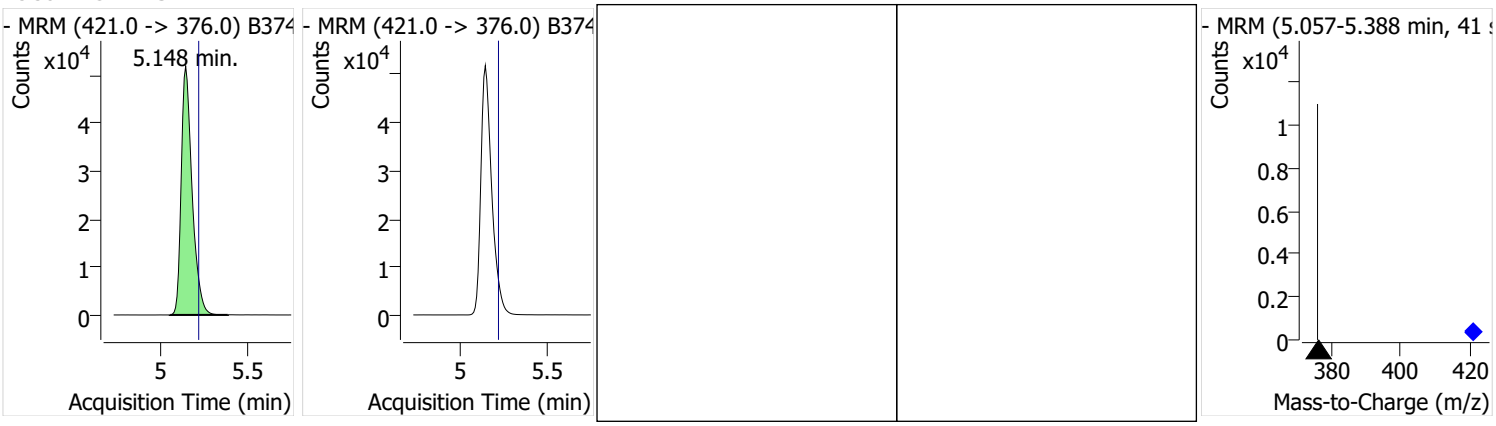
13C6-PFDA - ISTD



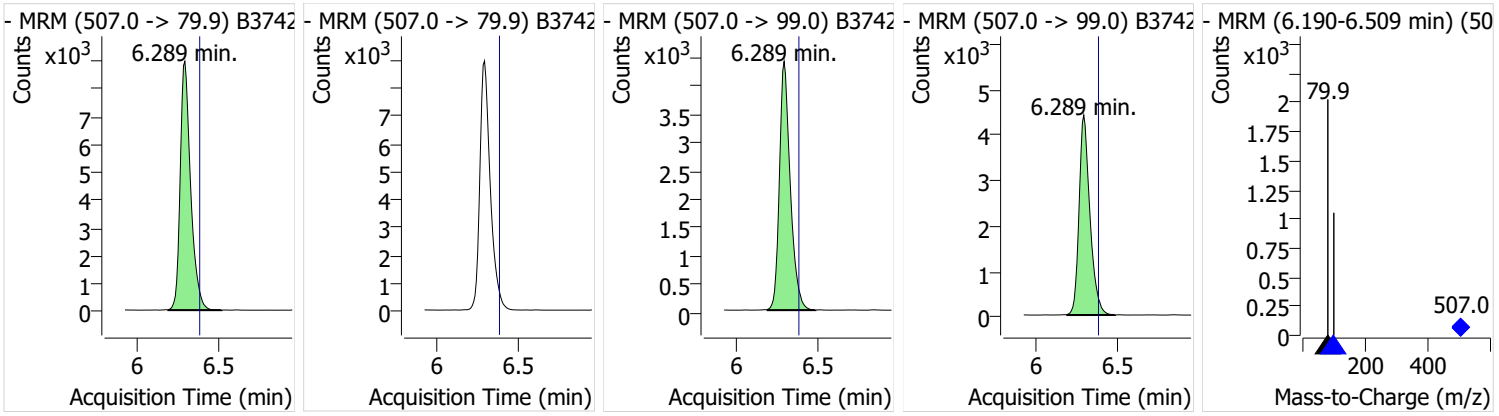
13C7-PFUnA - ISTD



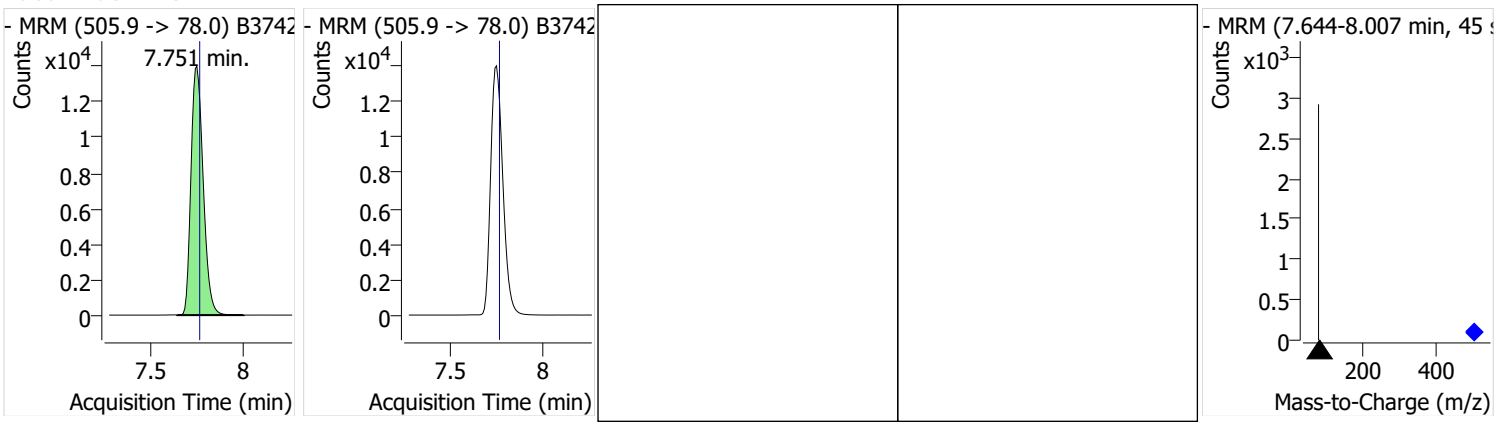
13C8-PFOA - ISTD



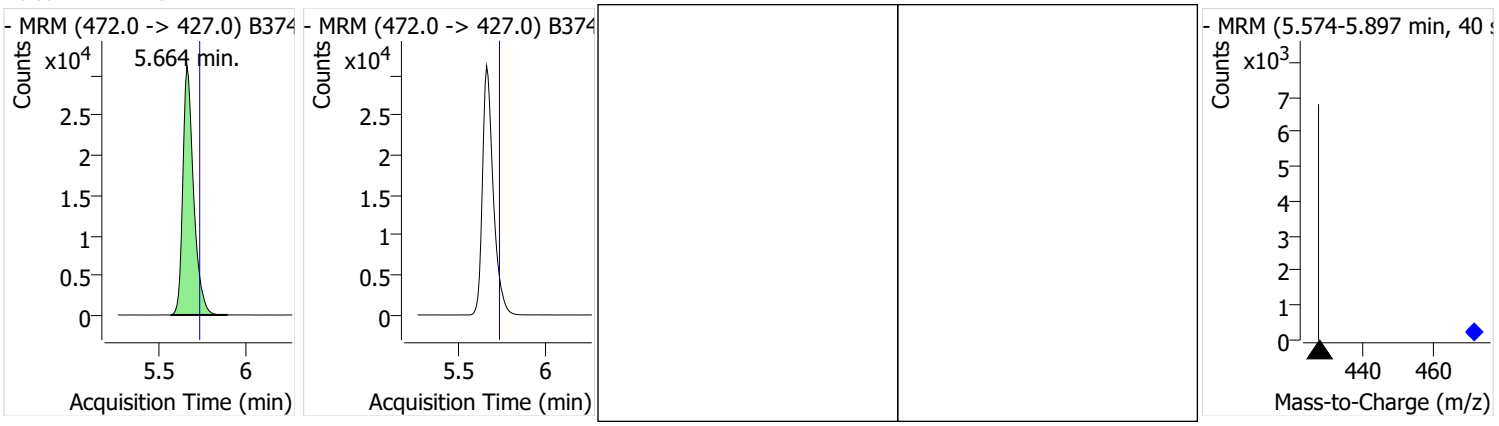
13C8-PFOS - ISTD



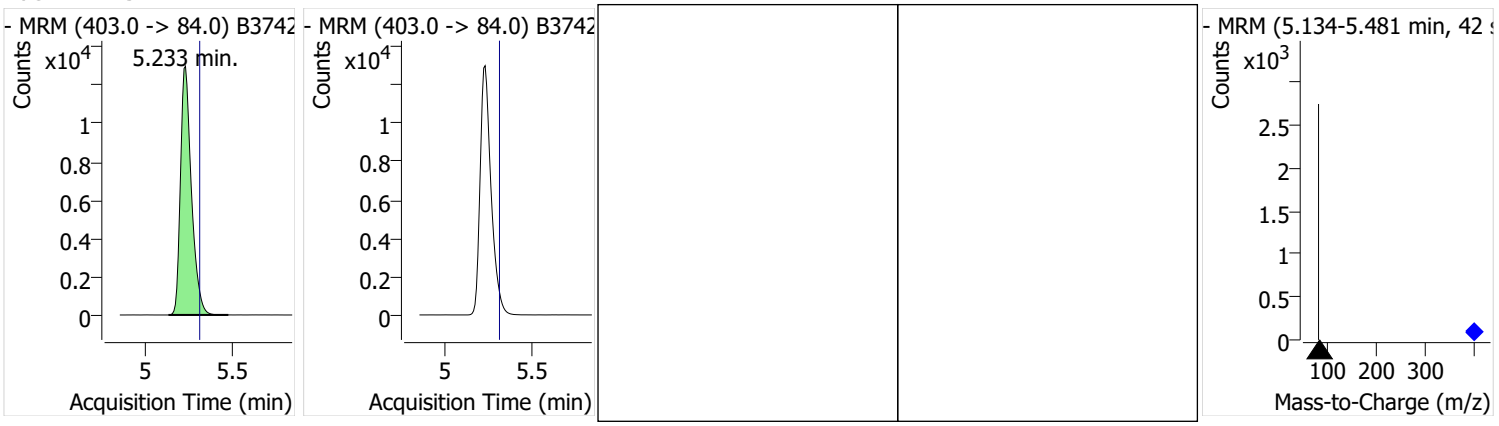
13C8-PFOSA - ISTD



13C9-PFNA - ISTD



18O2-PFHxS



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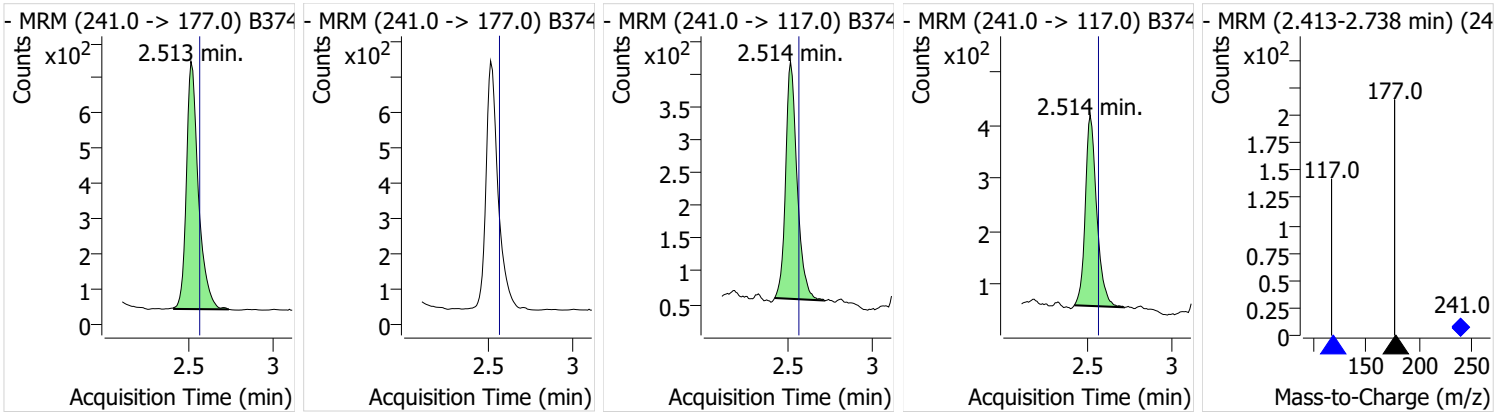

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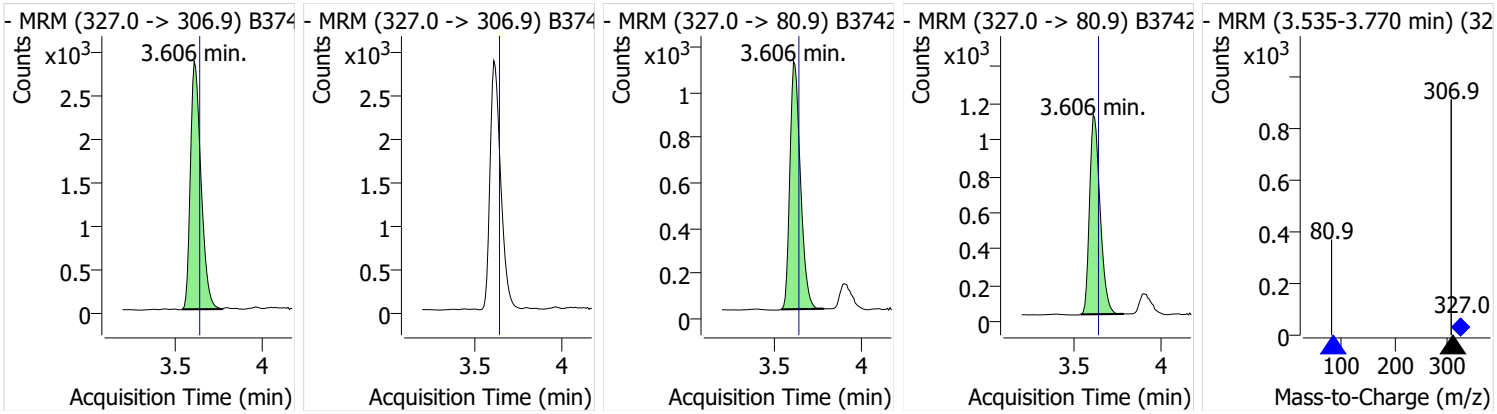
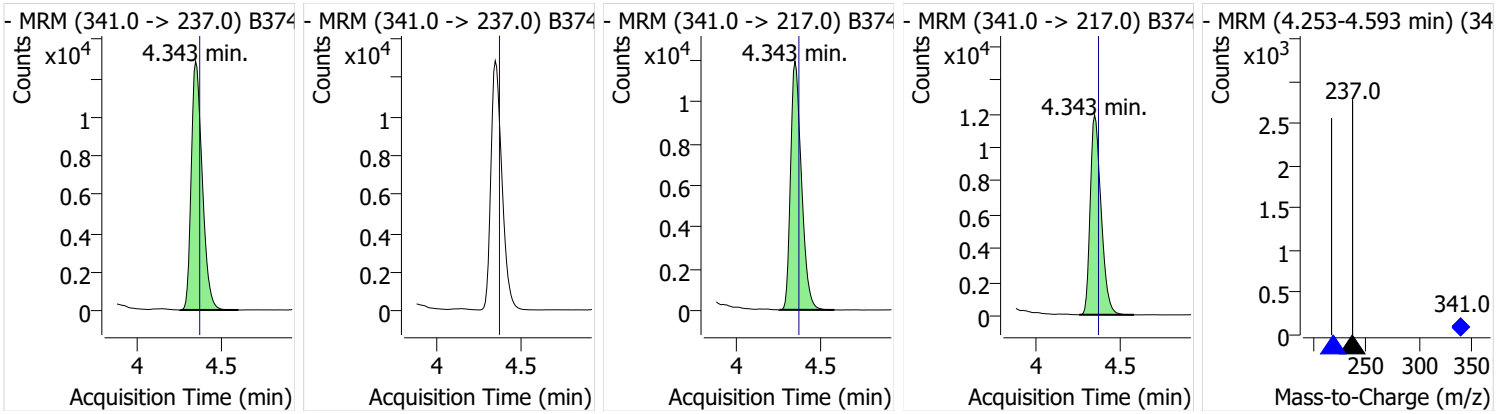


5:3FTCA



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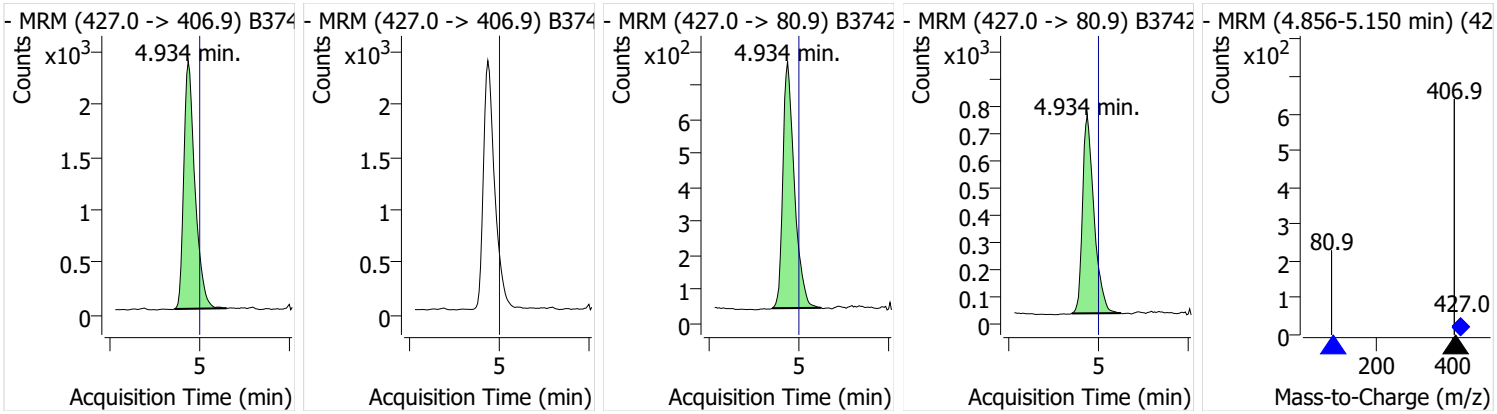

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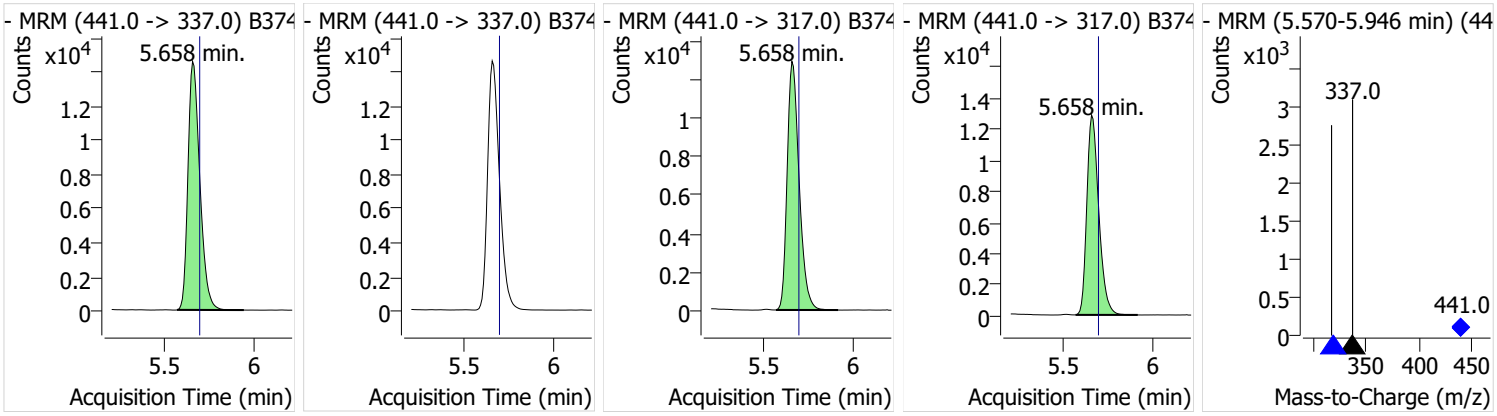

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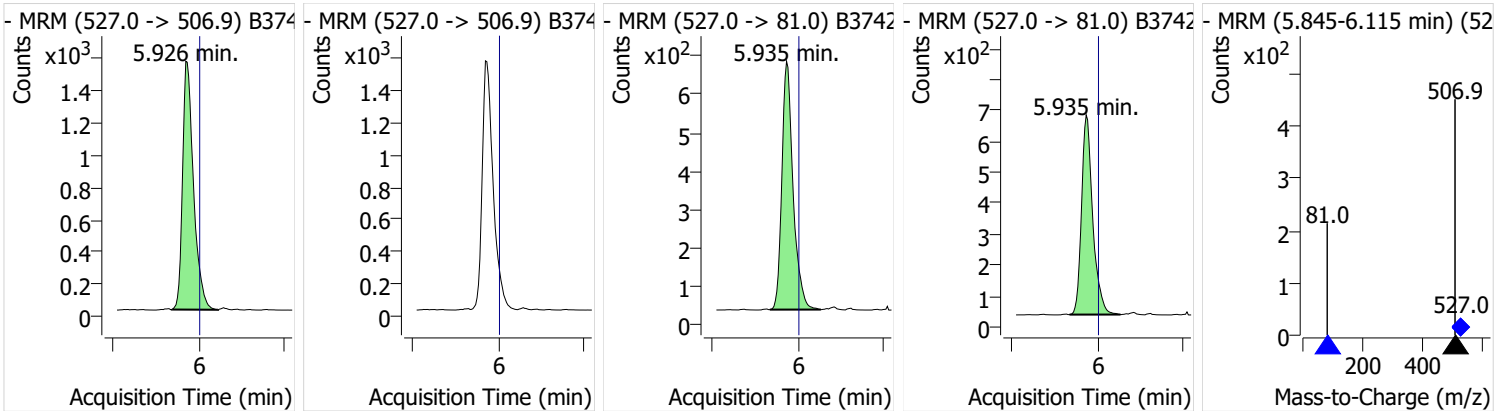
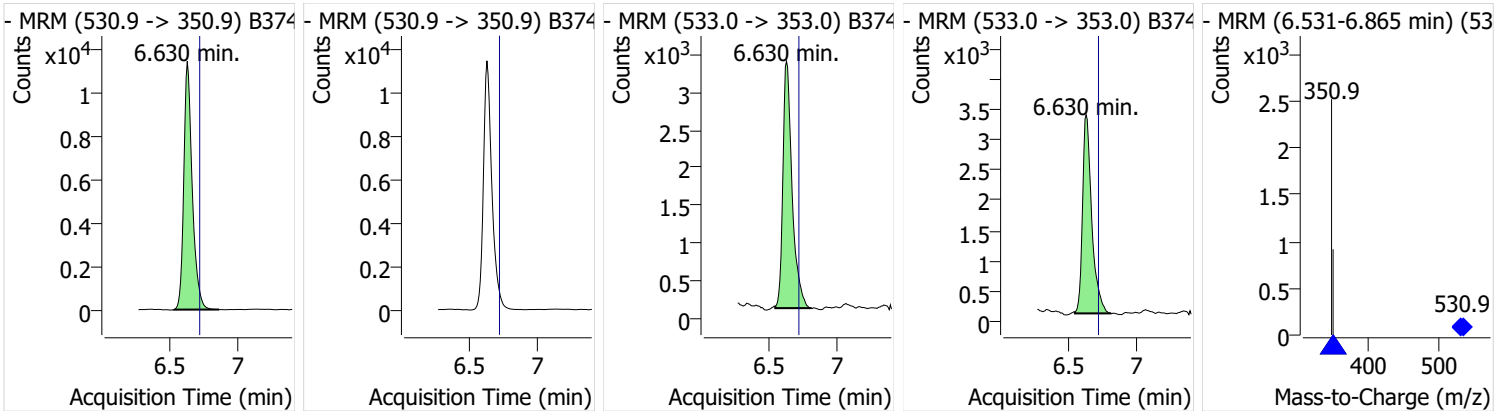


9Cl-PF3ONS



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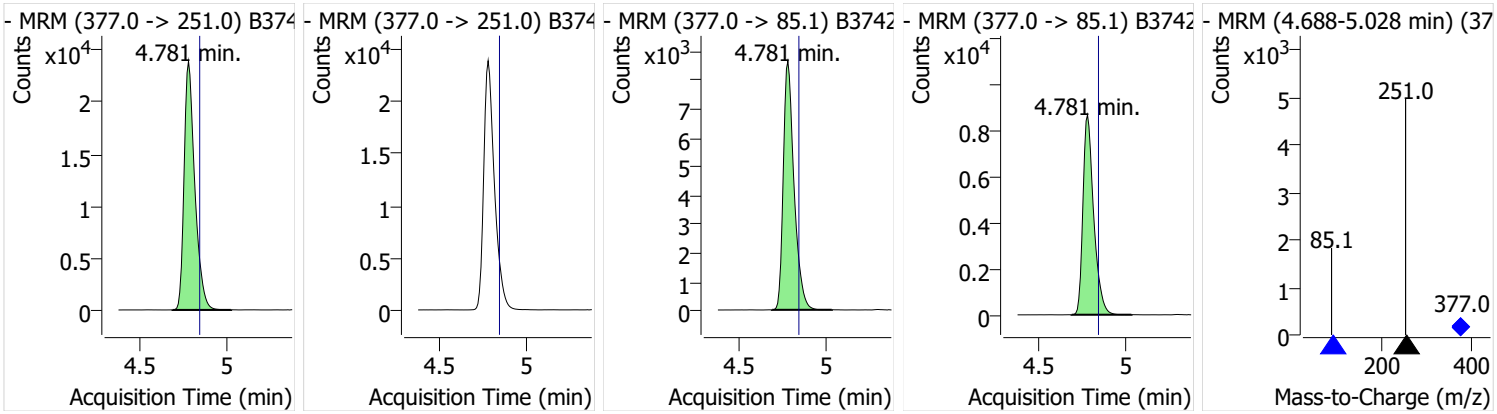

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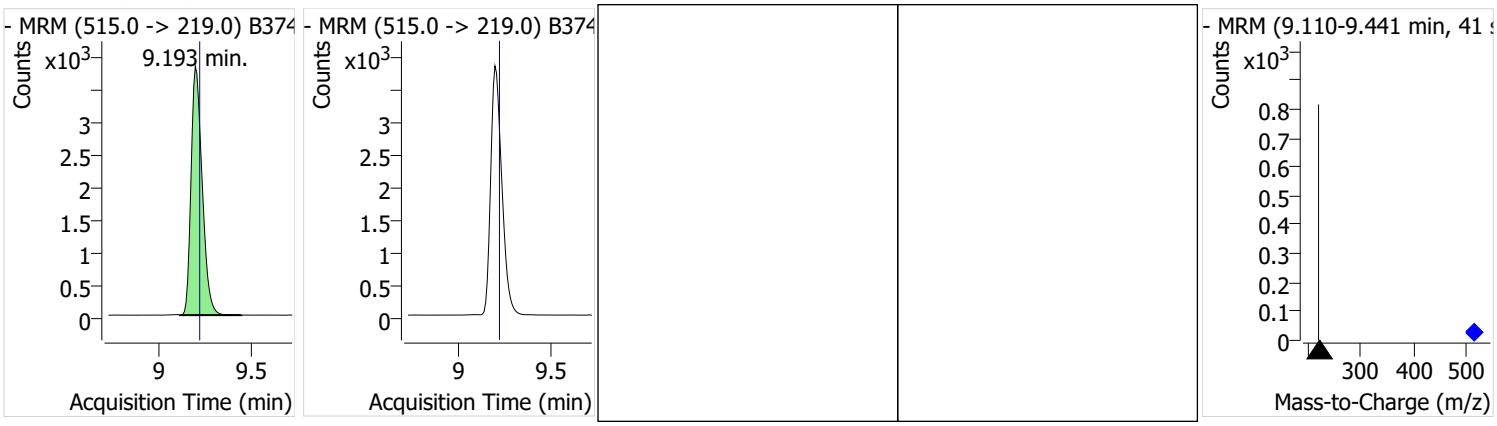

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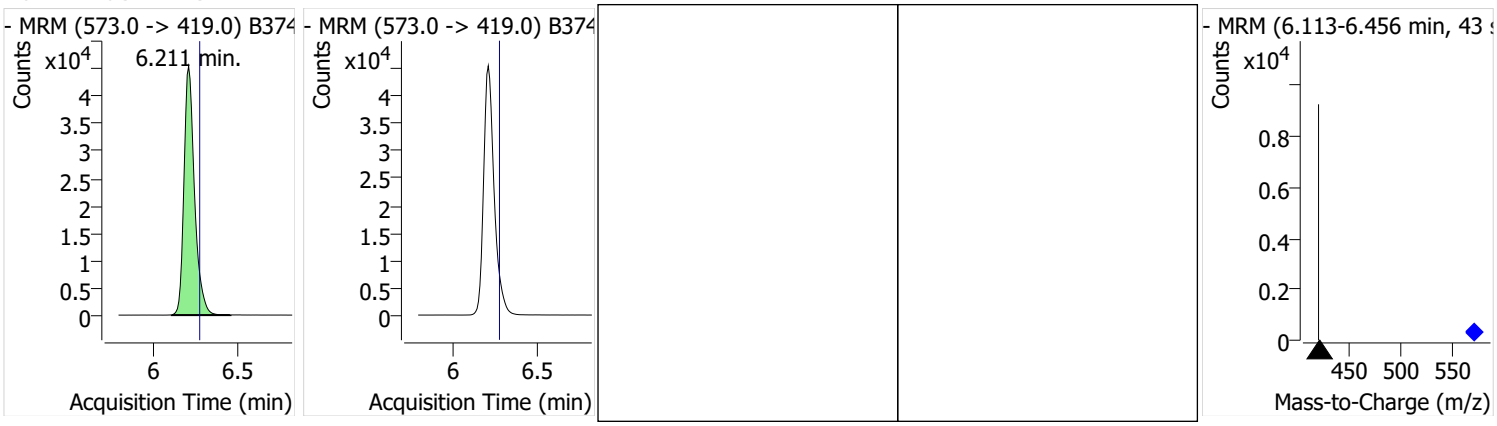
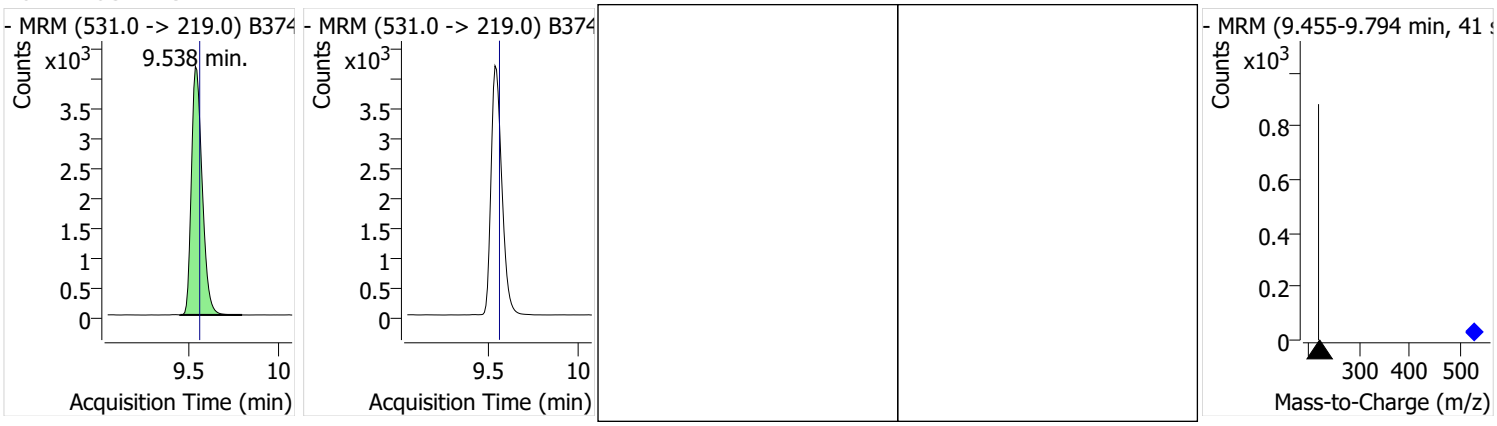
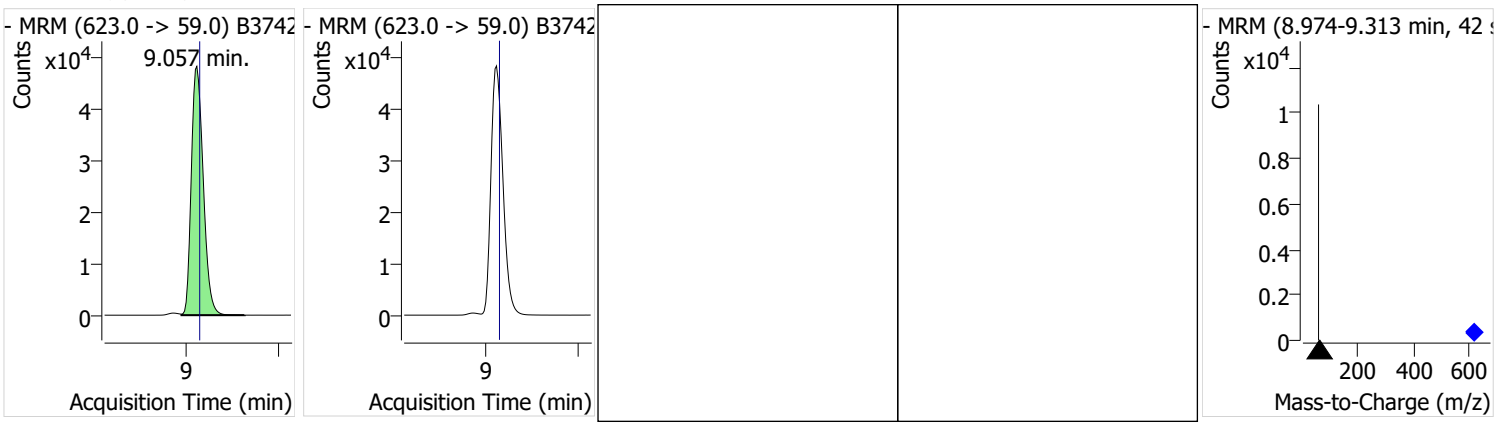


D5-NEtFOSA - ISTD



D5-NEtFOSAA - ISTD

D7-NMeFOSE - ISTD



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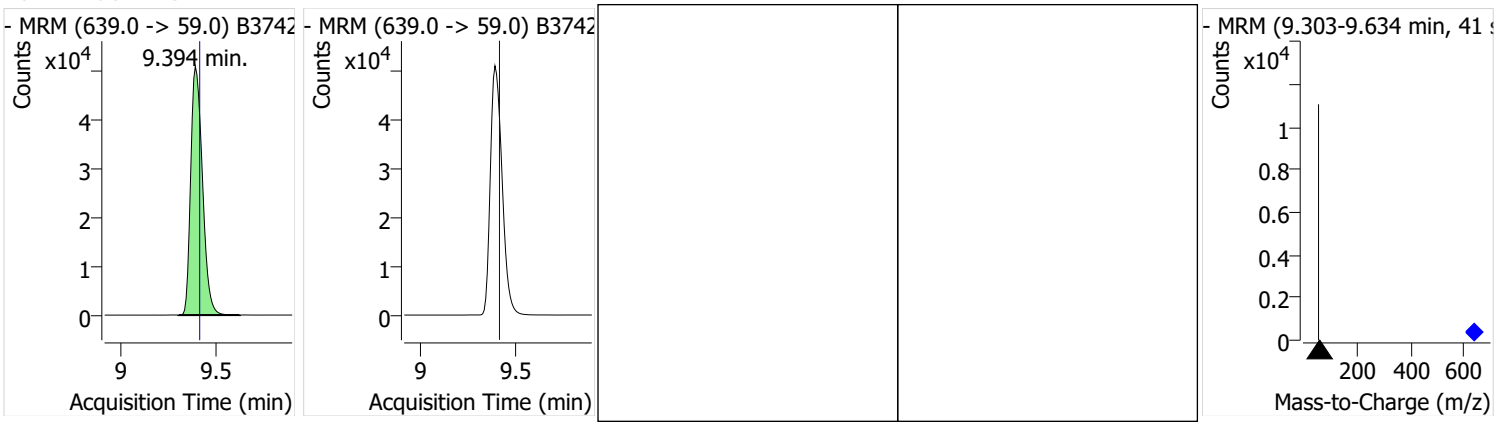

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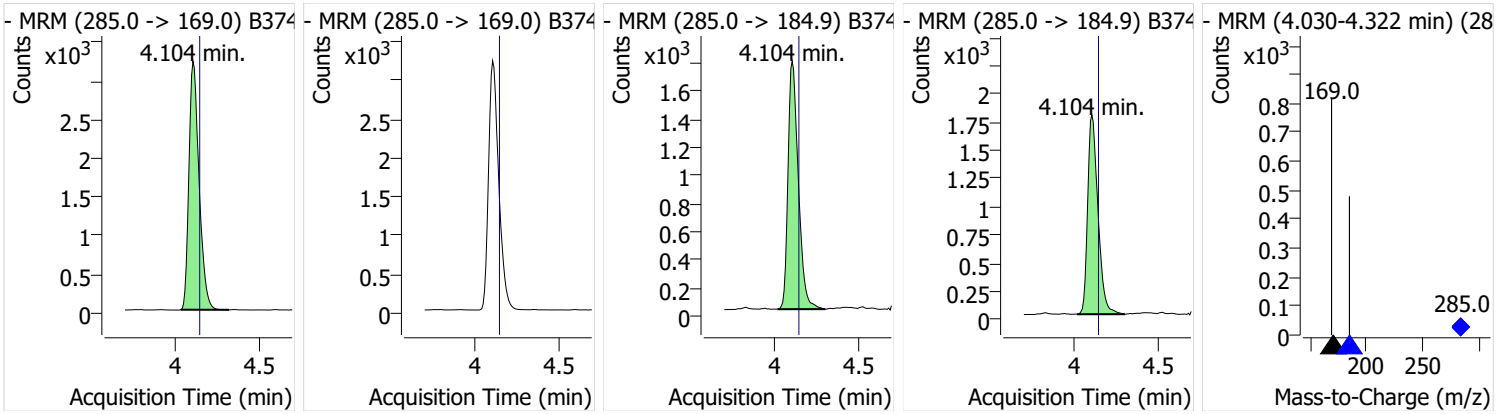

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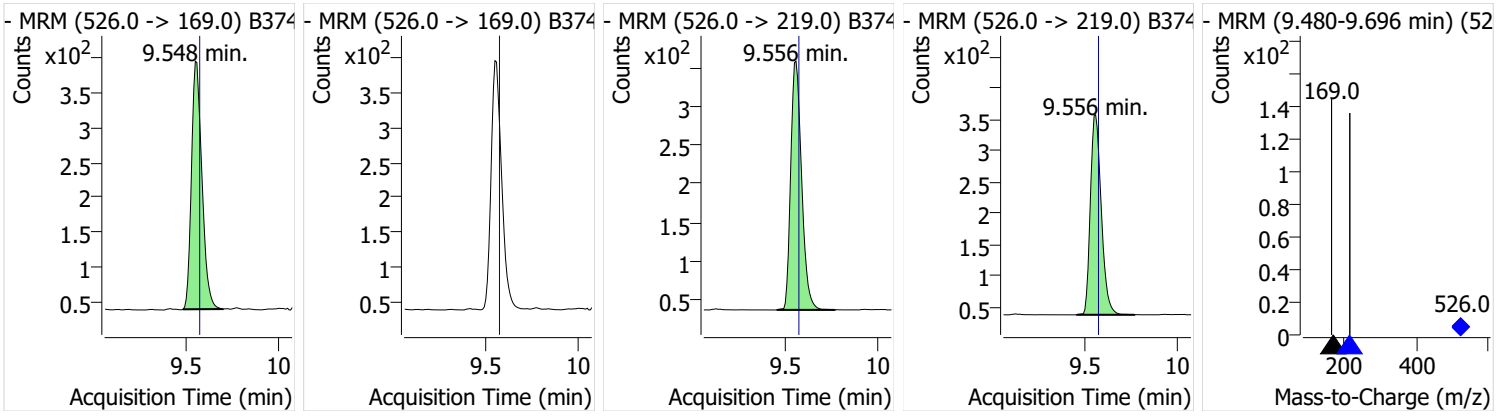

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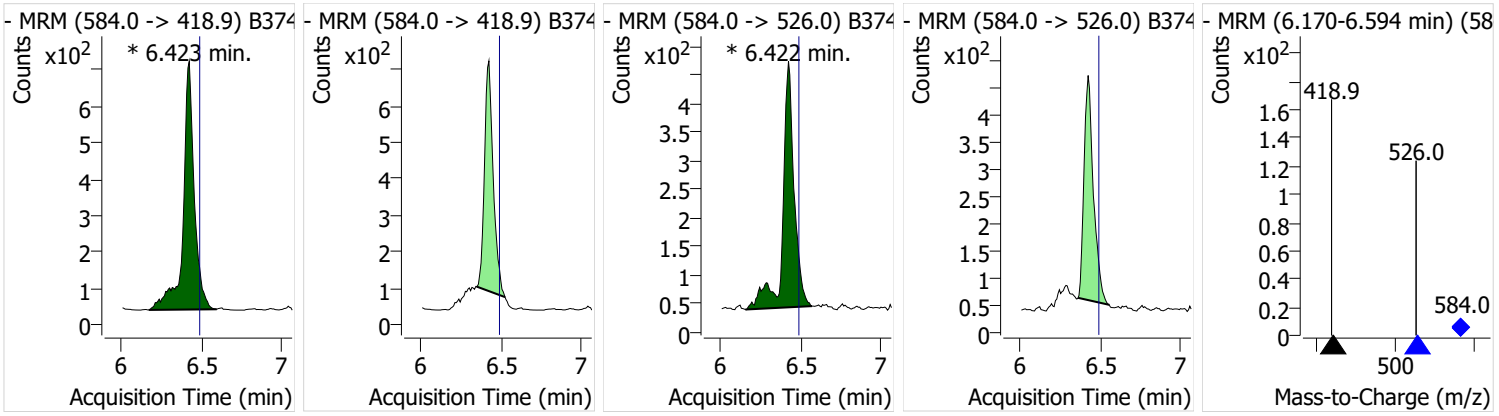

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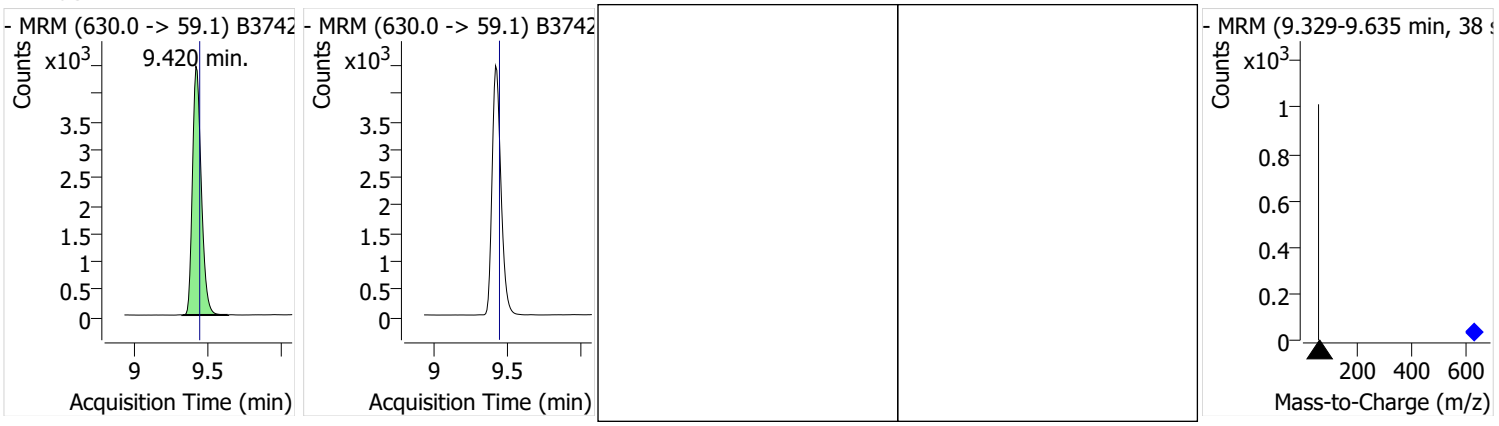

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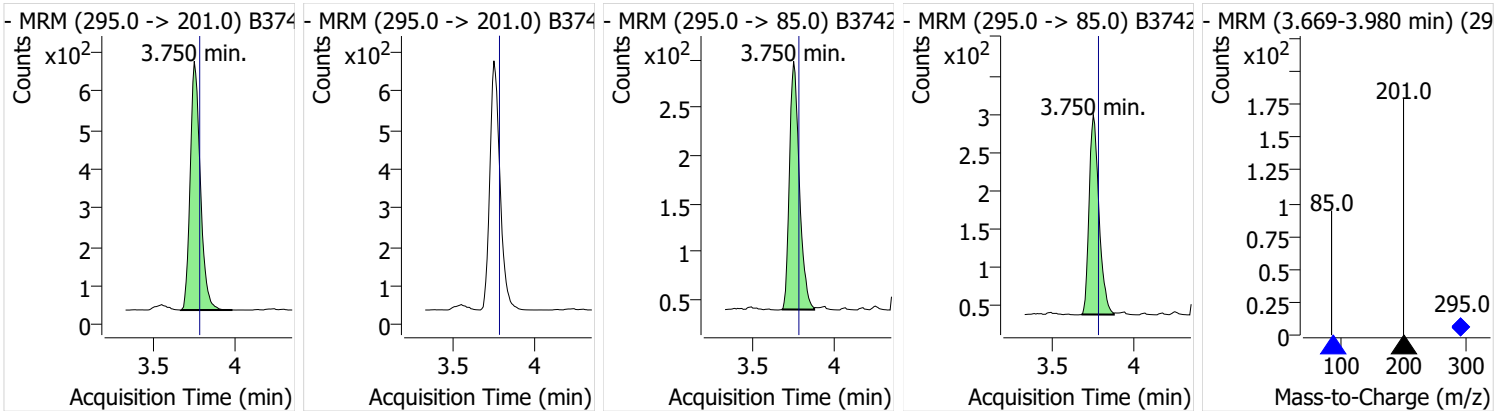

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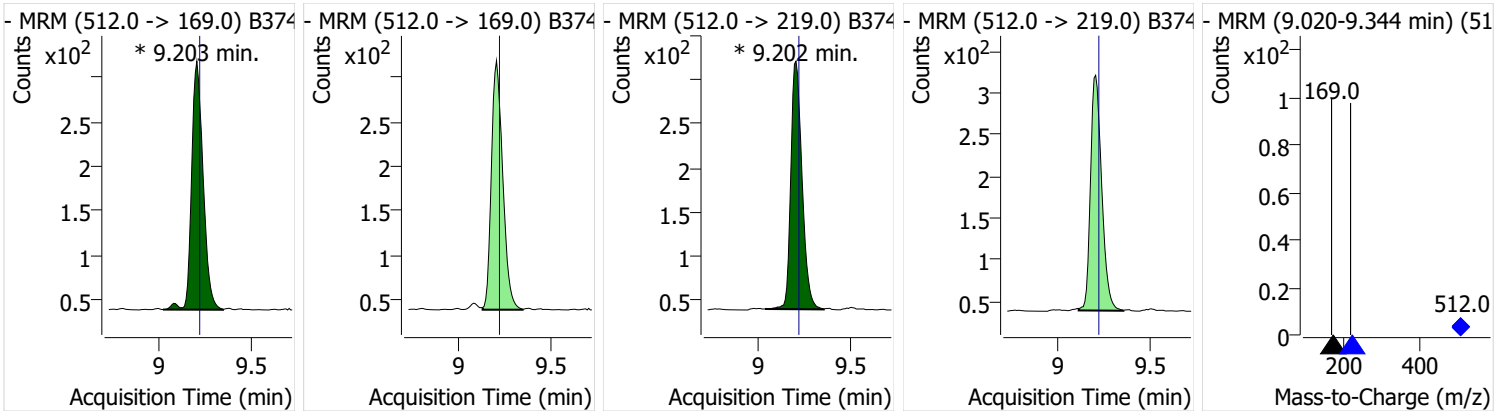

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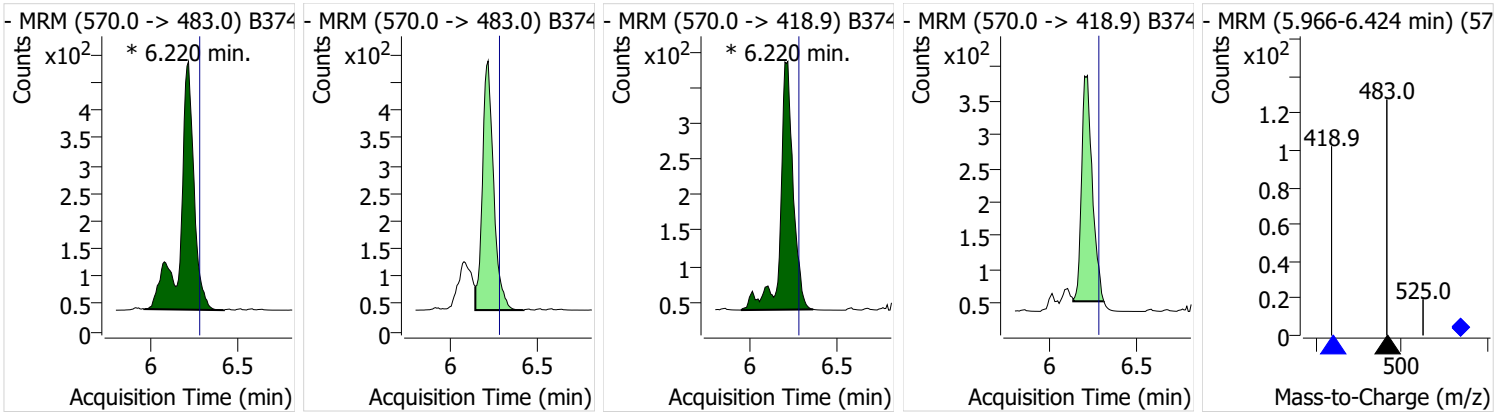

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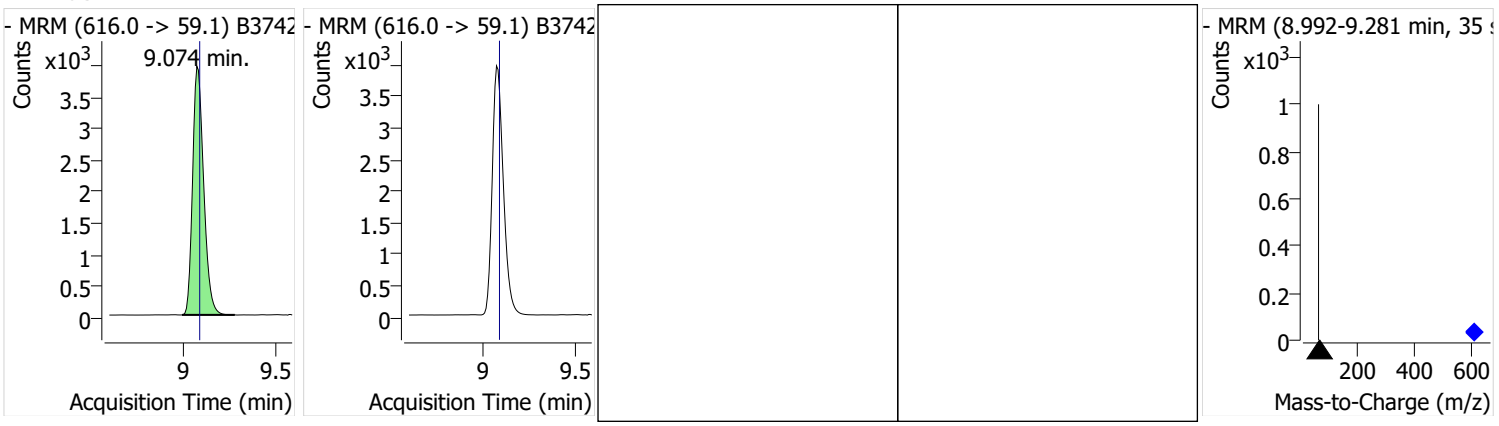

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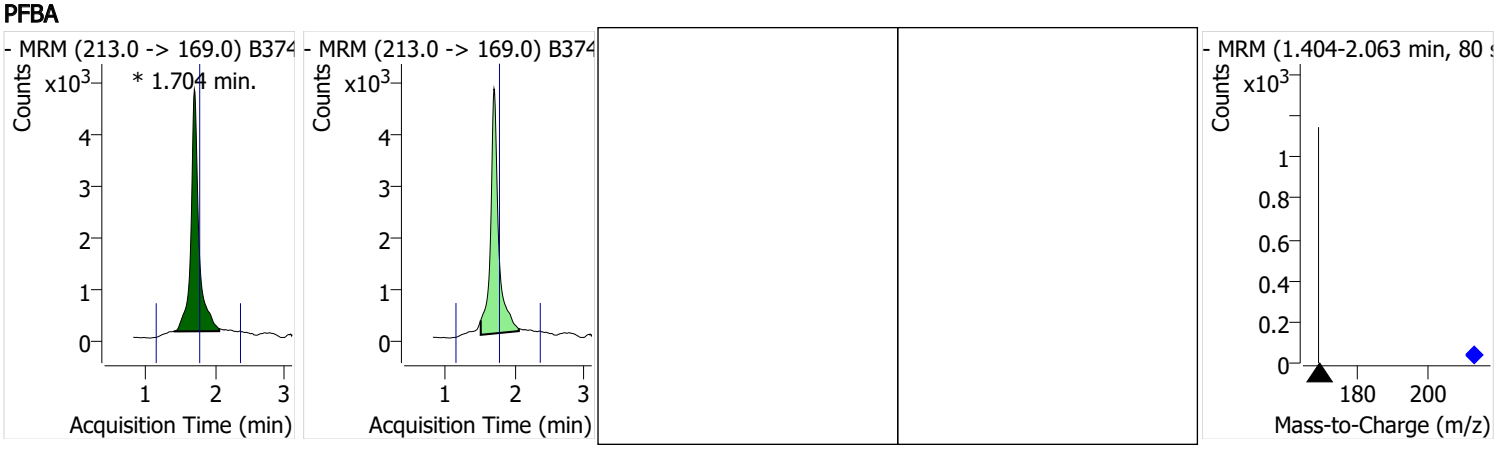

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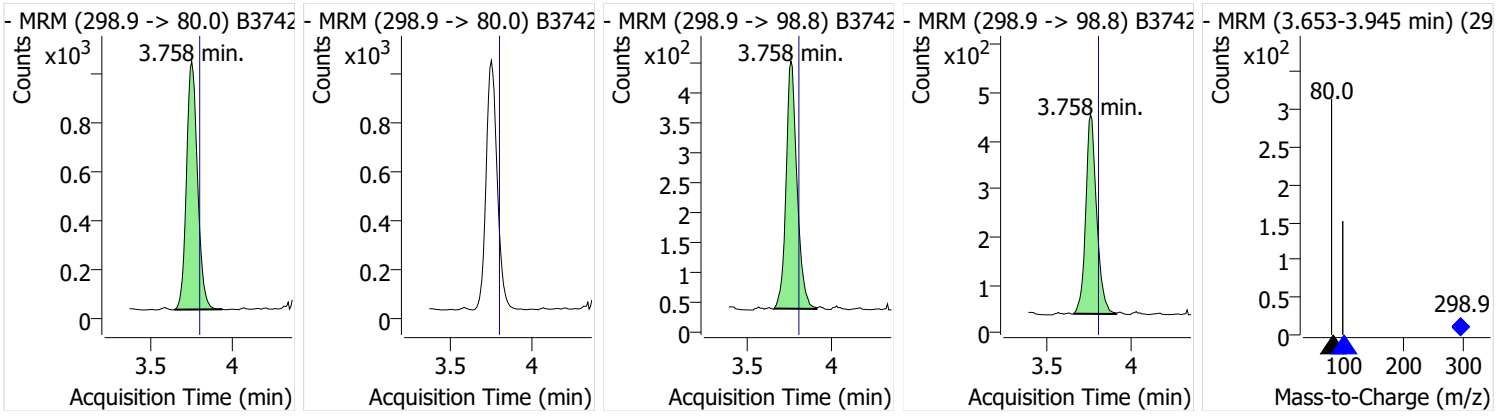

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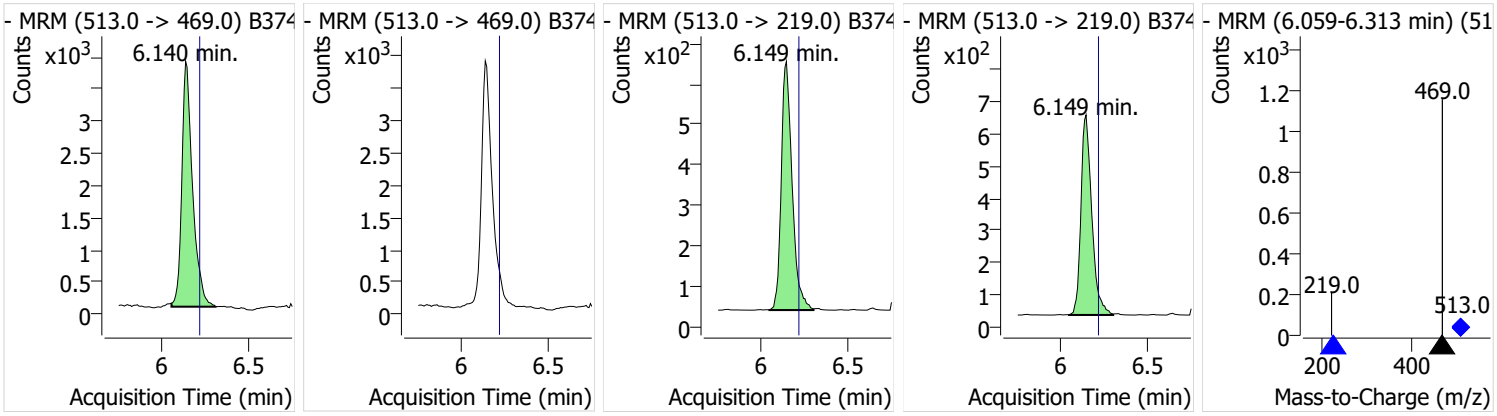

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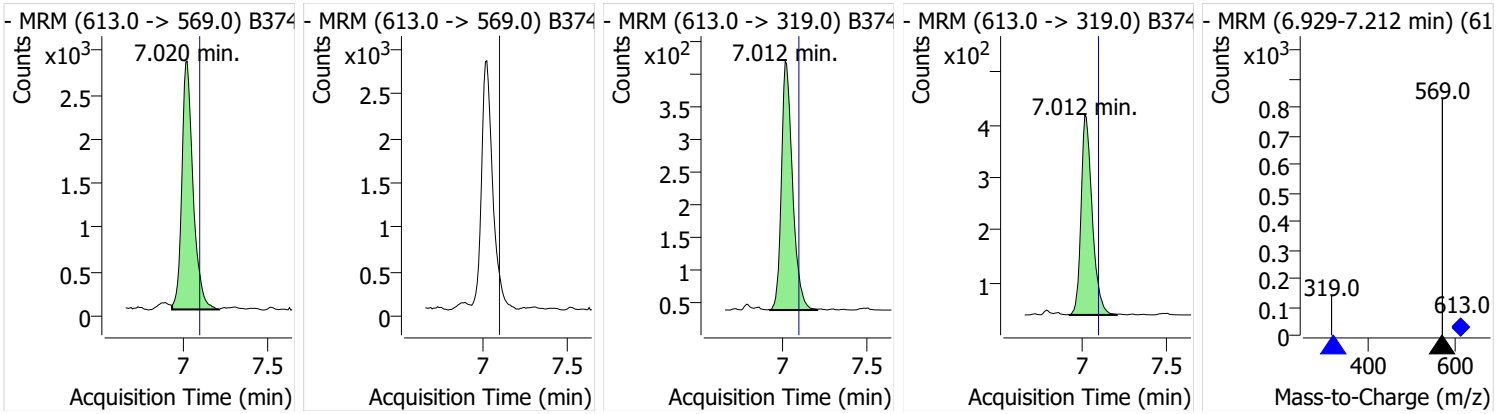

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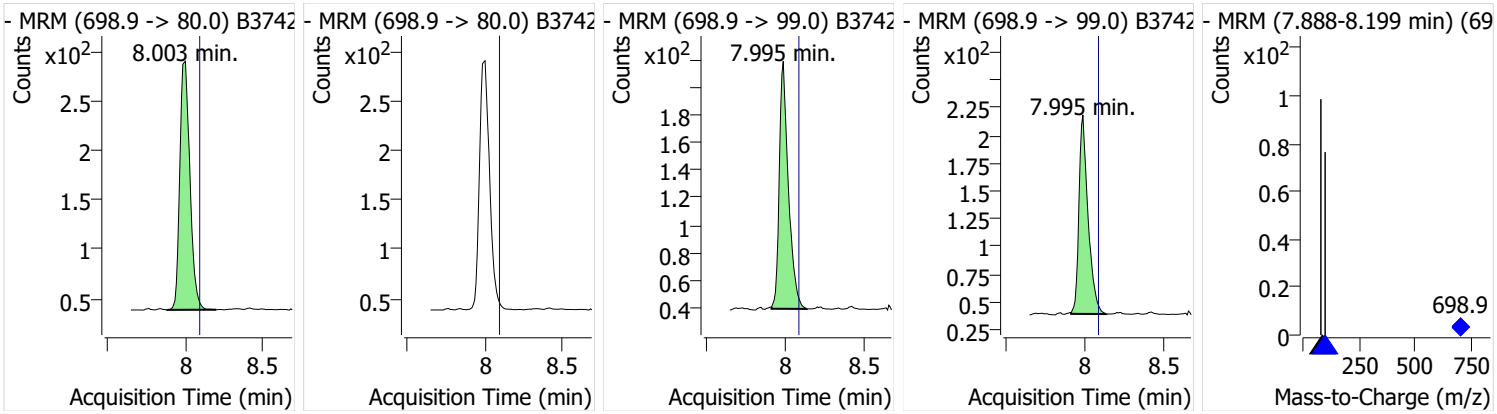

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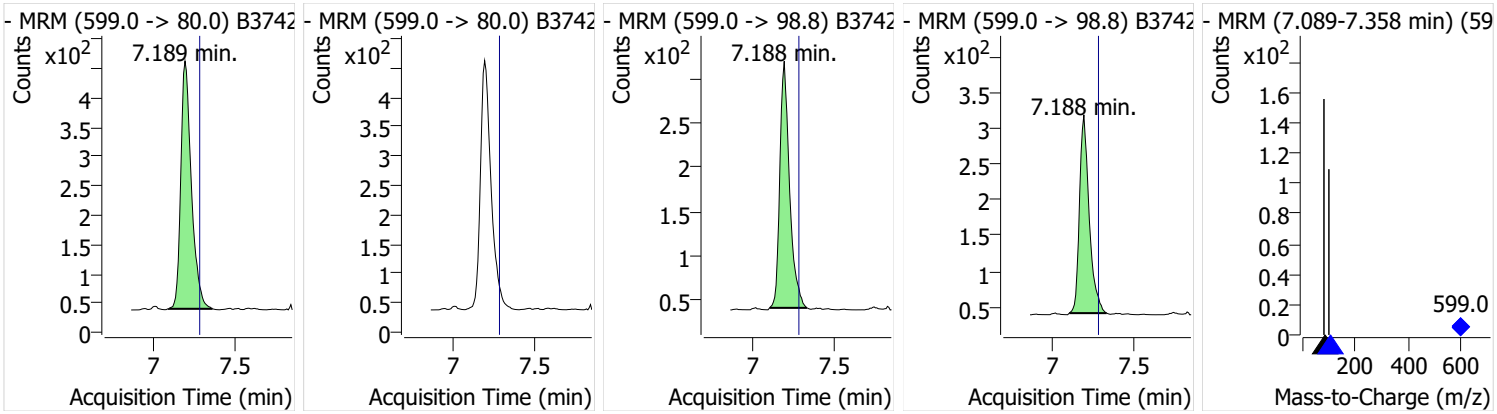

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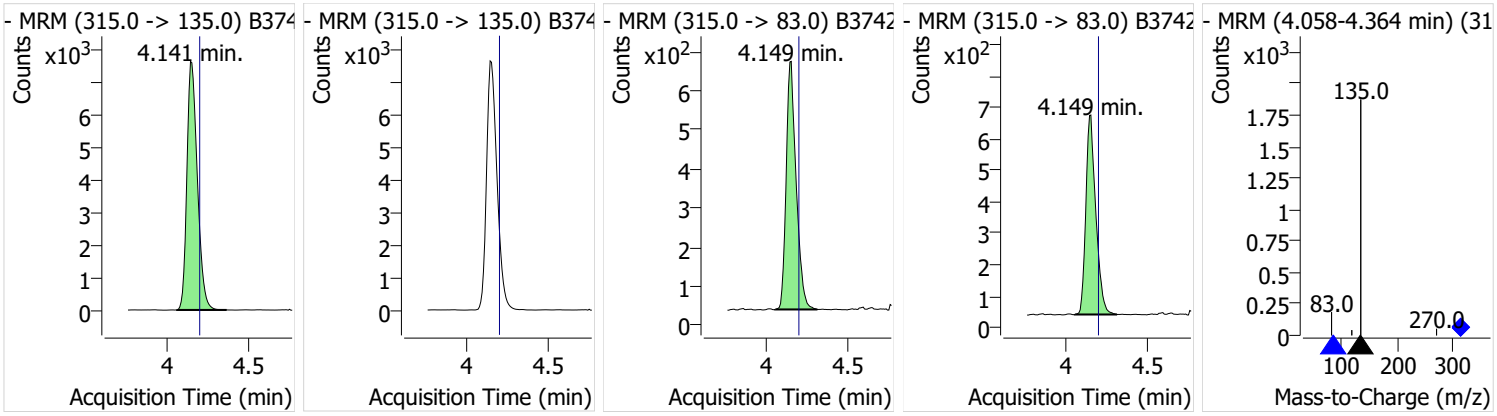

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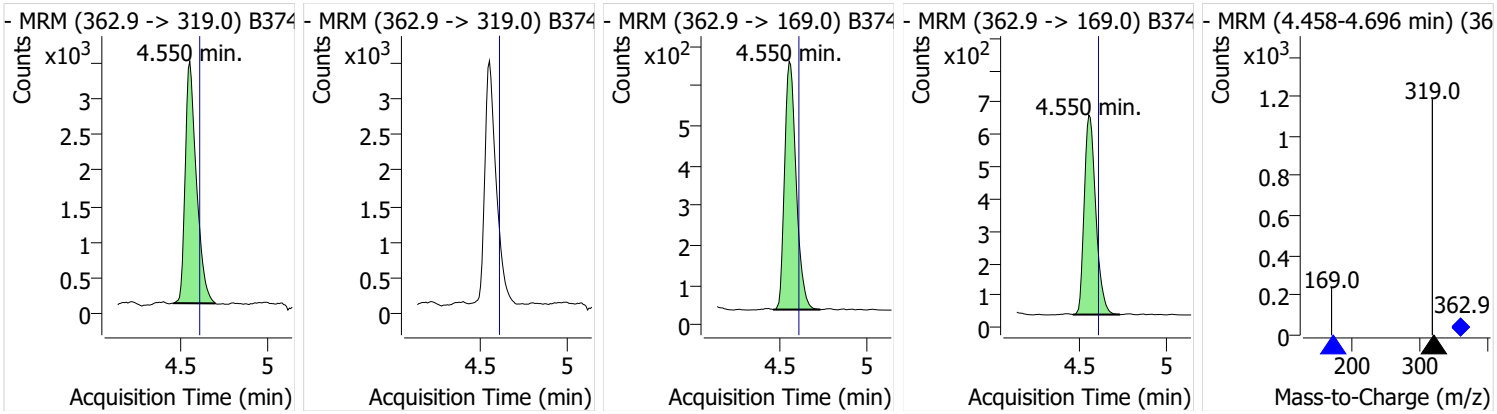

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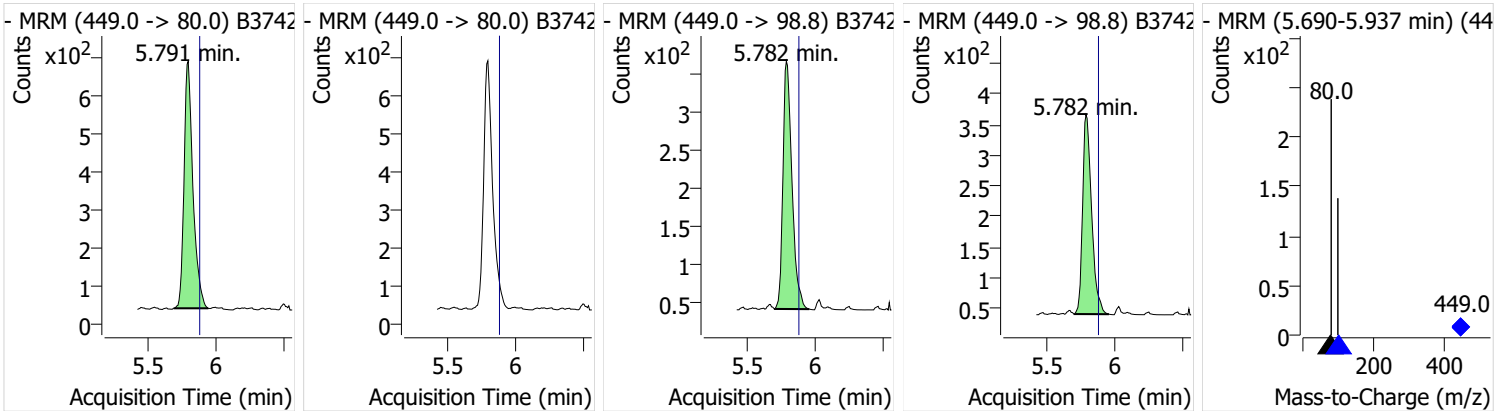

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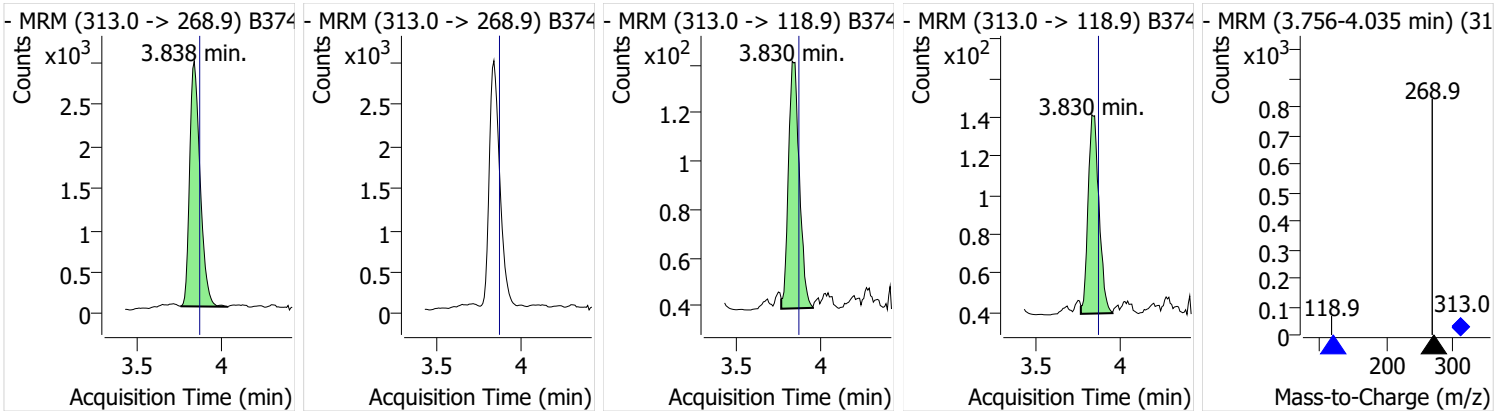

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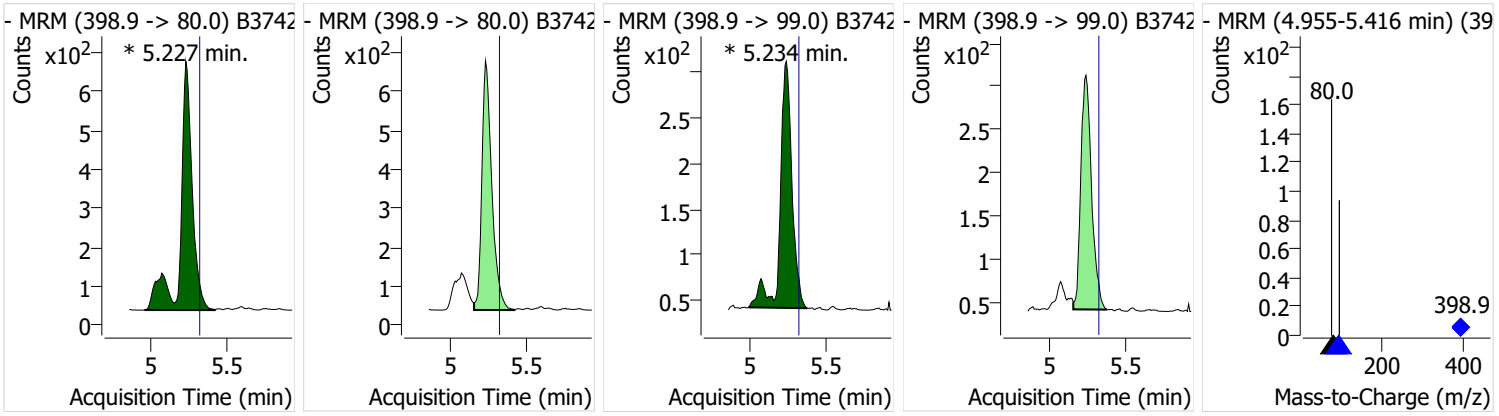

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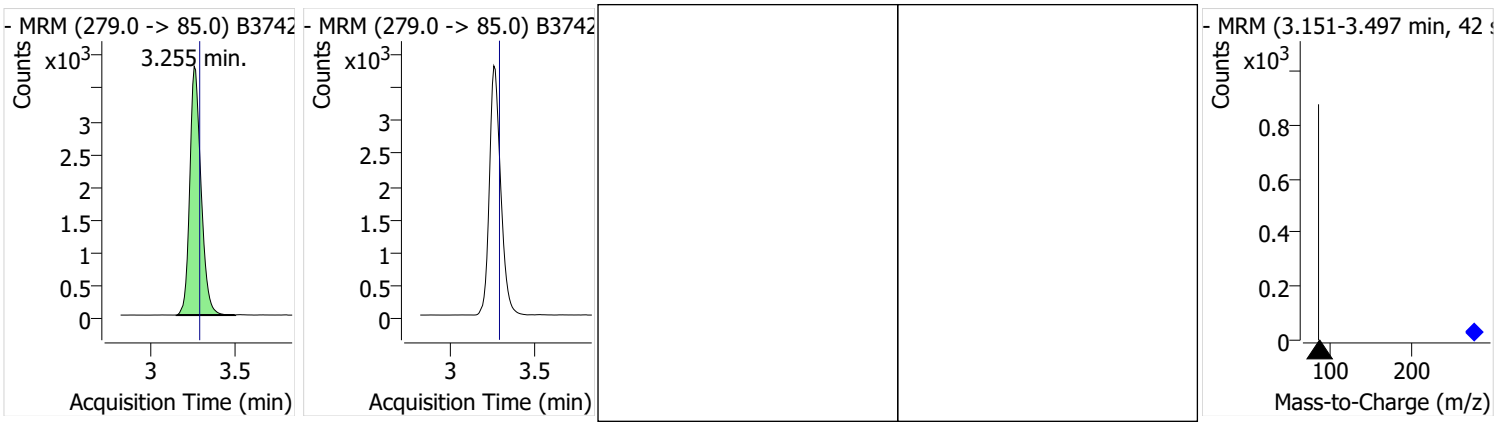

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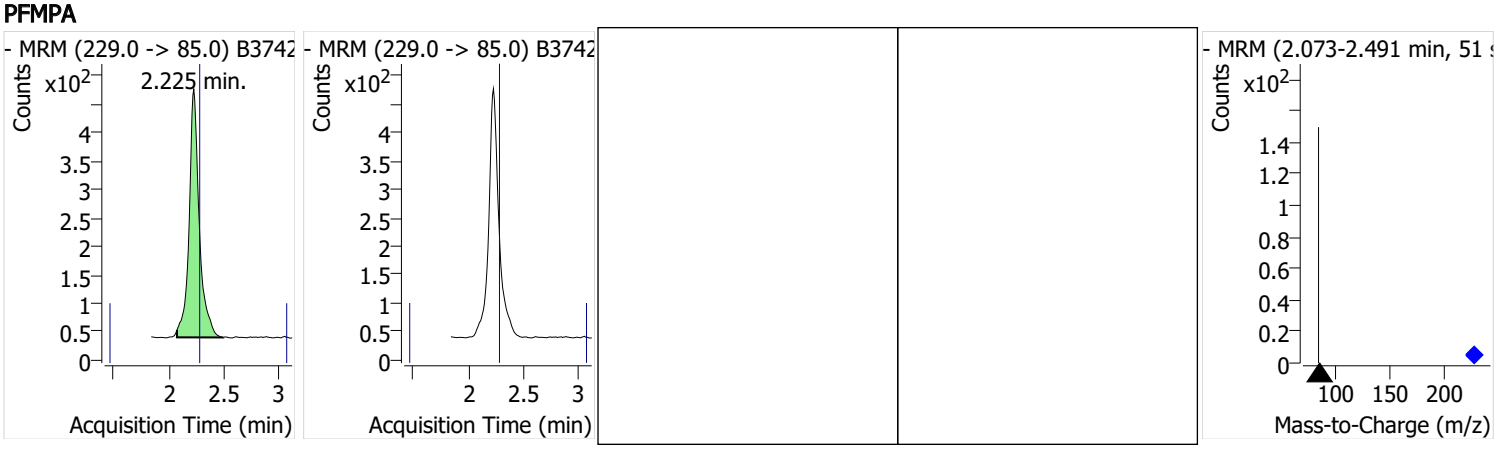

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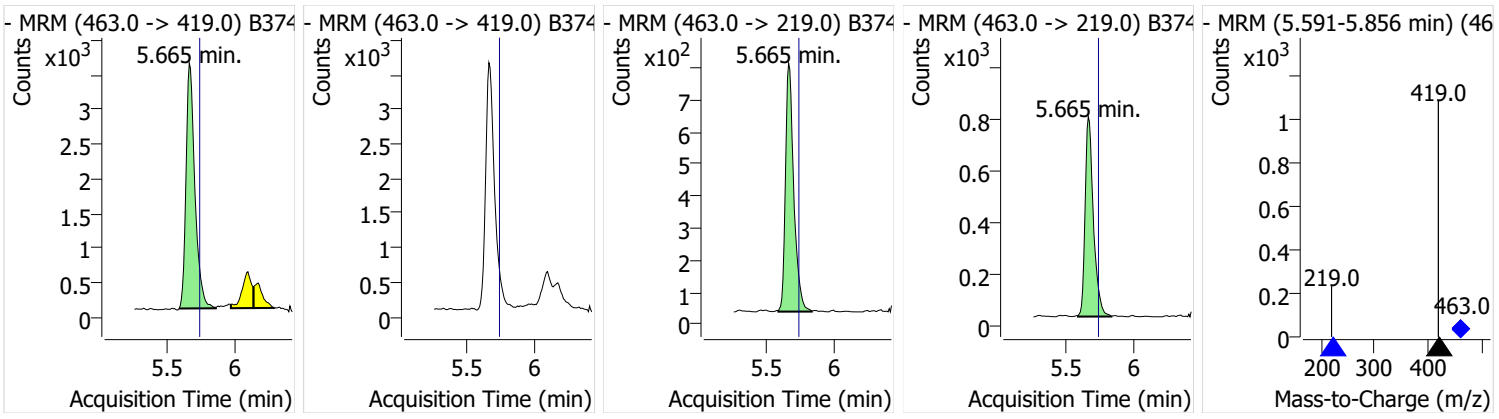

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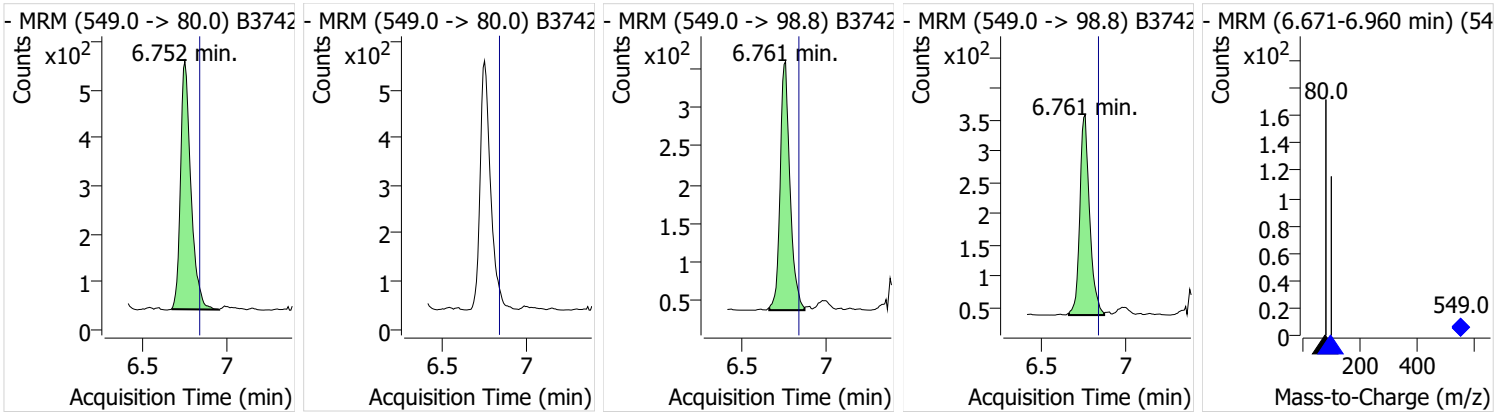

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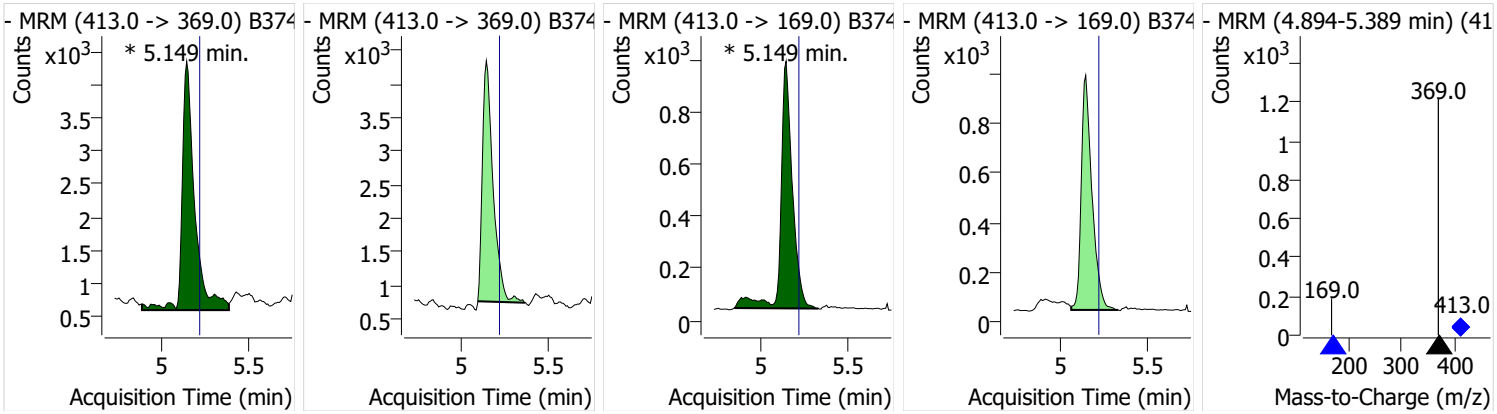

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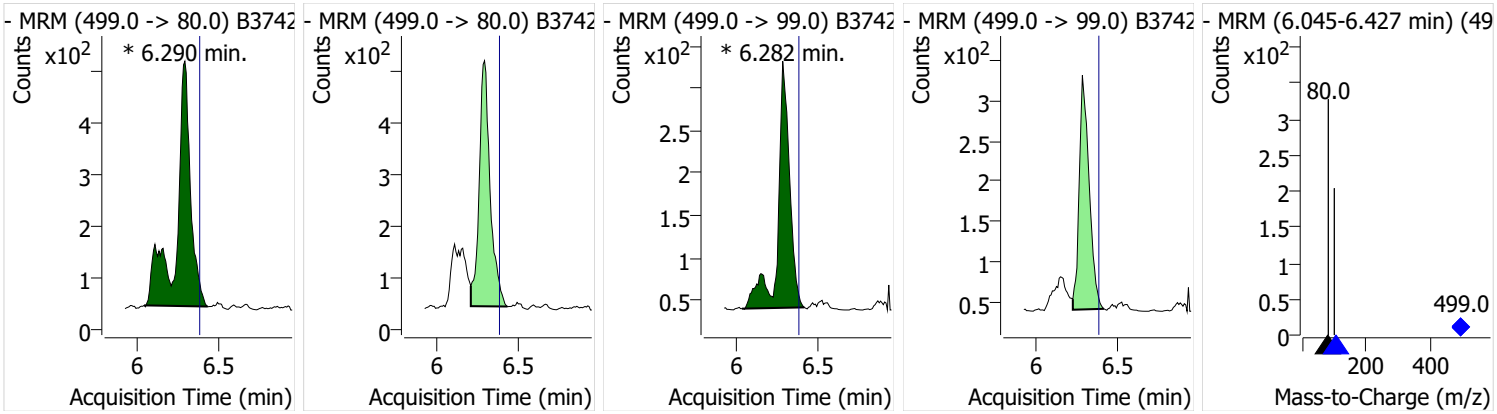

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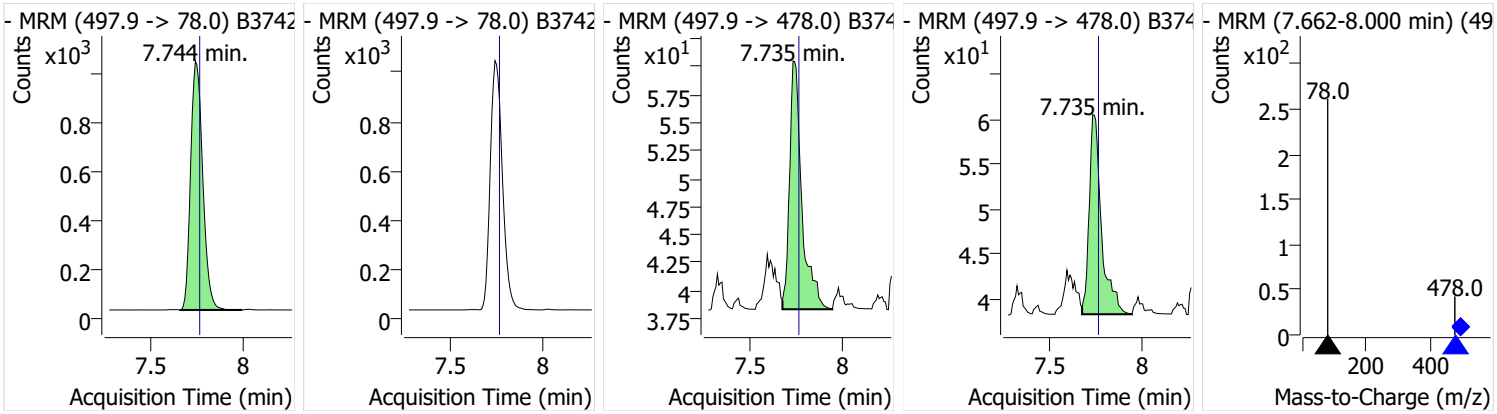

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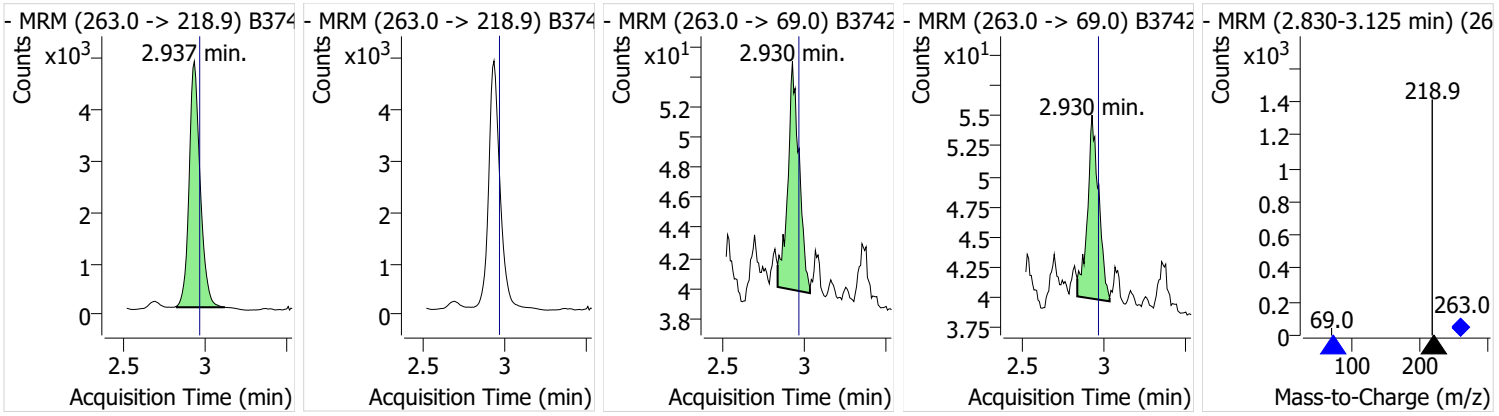

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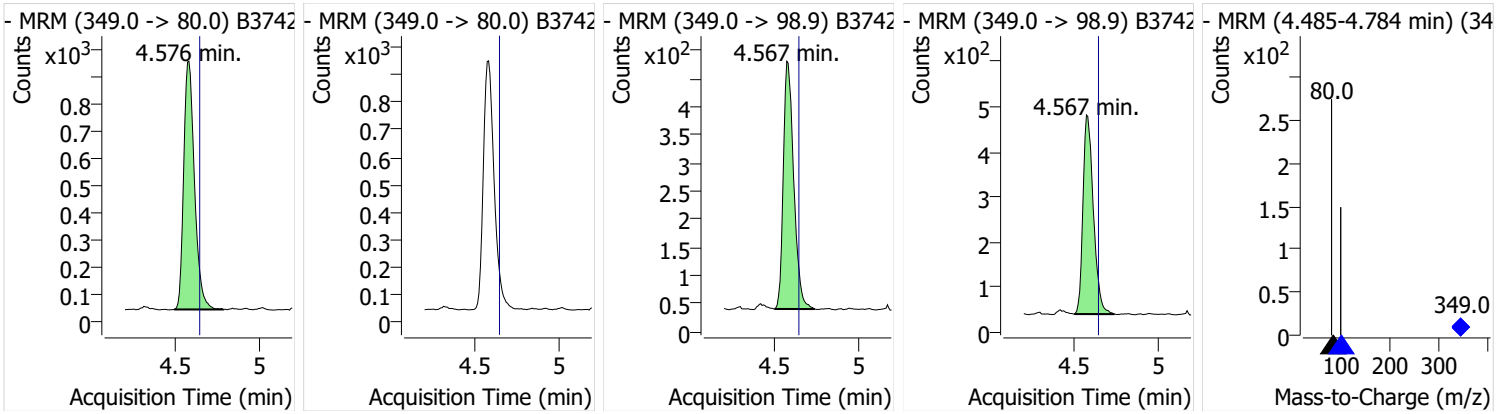

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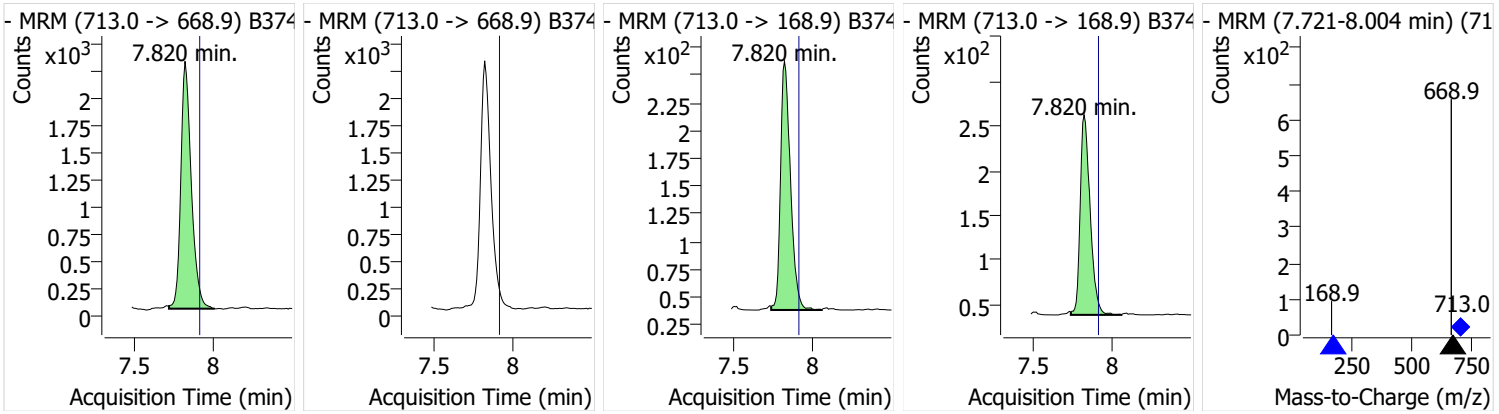

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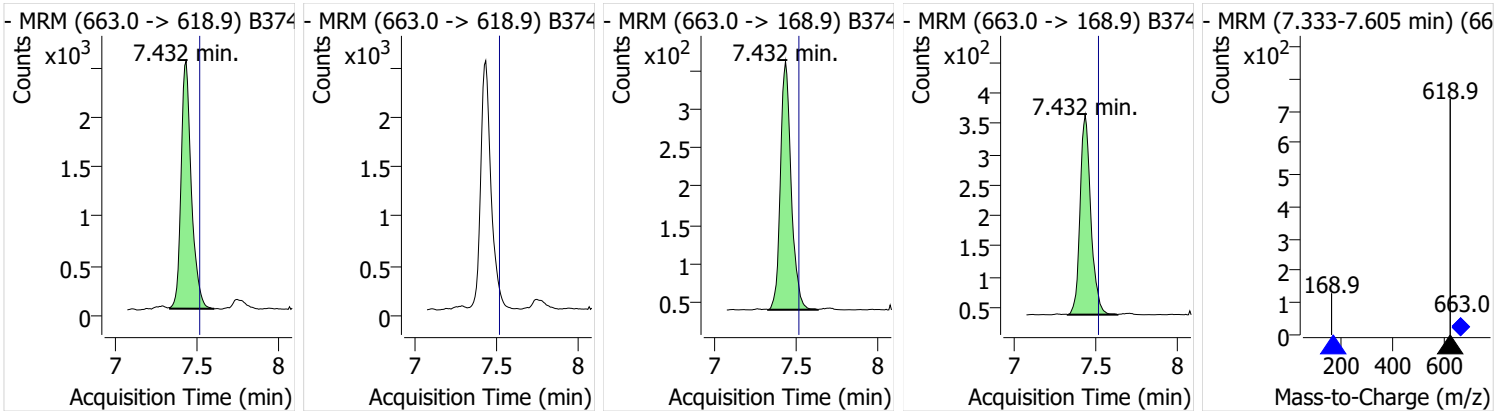

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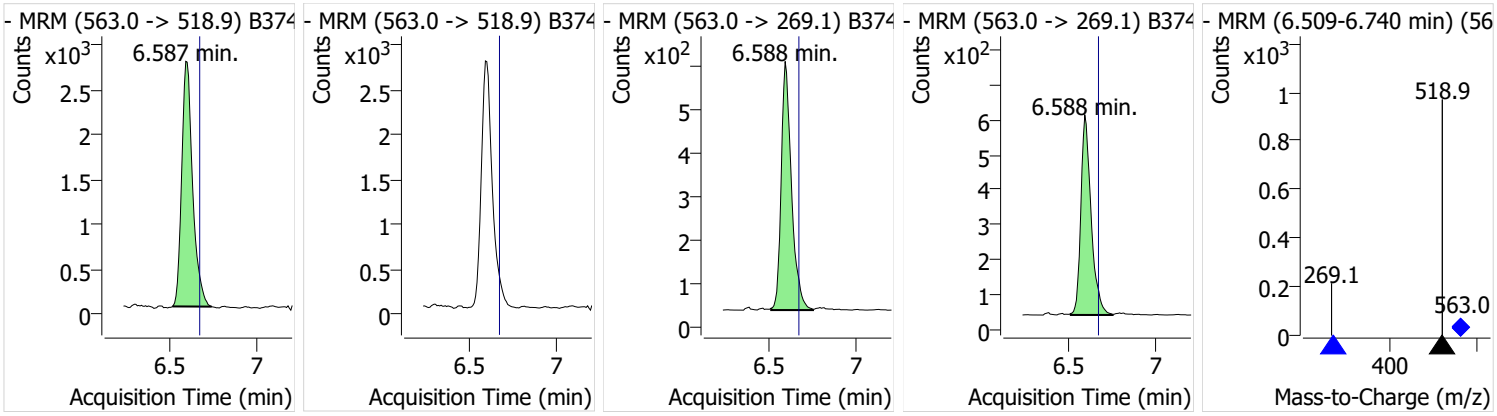

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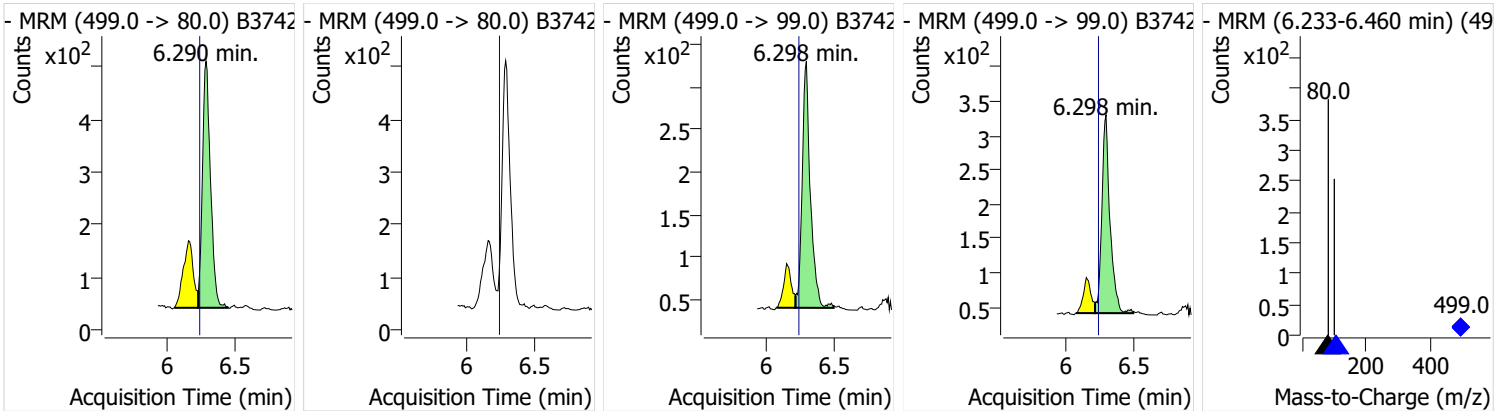

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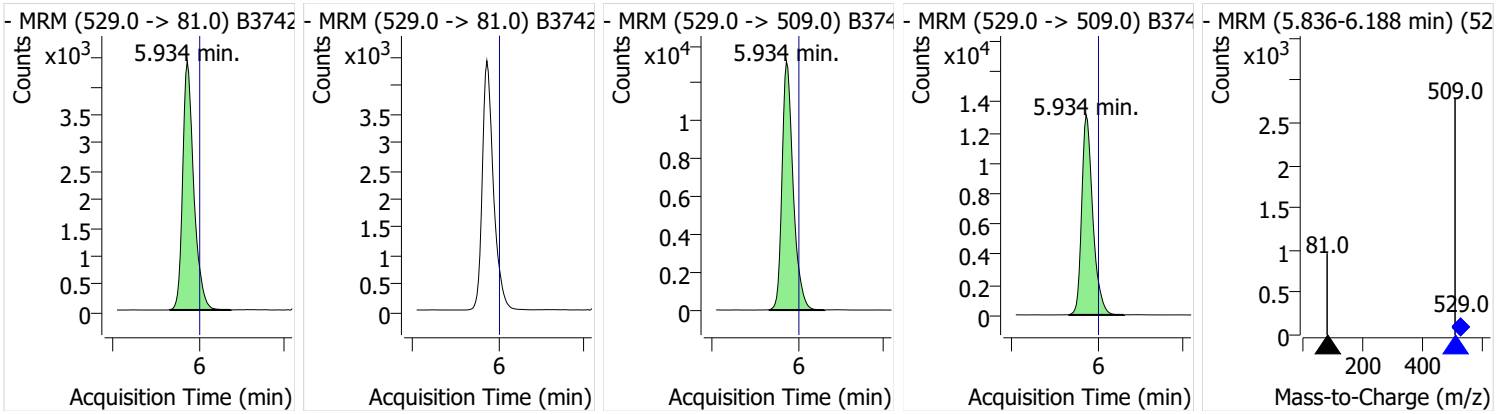

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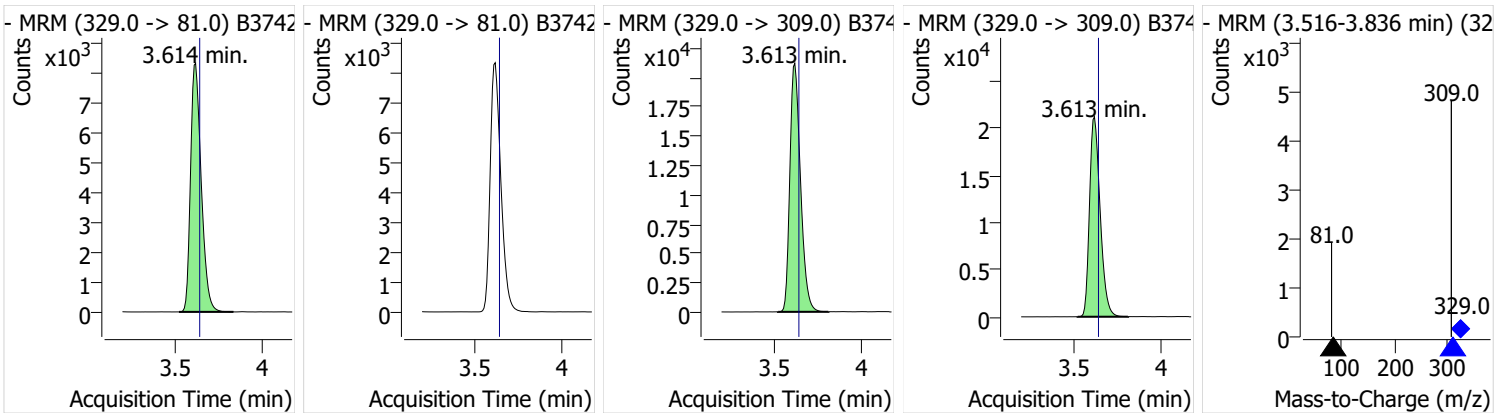

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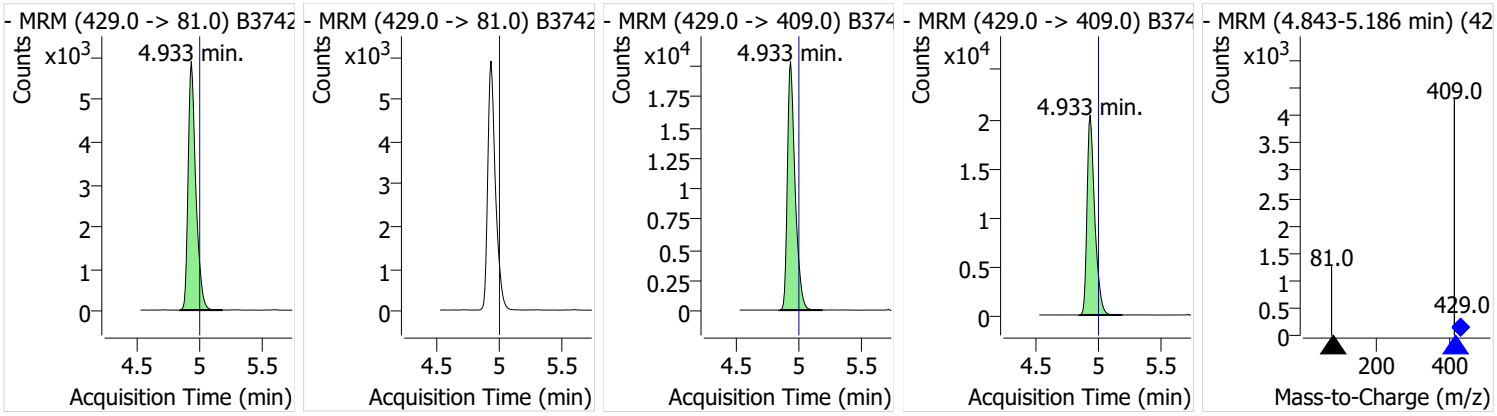

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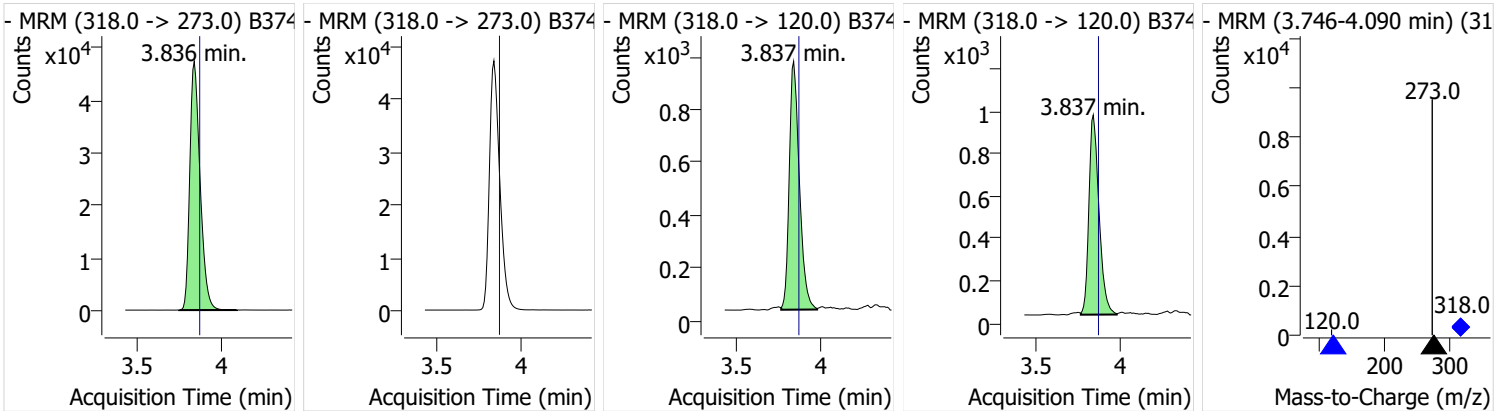

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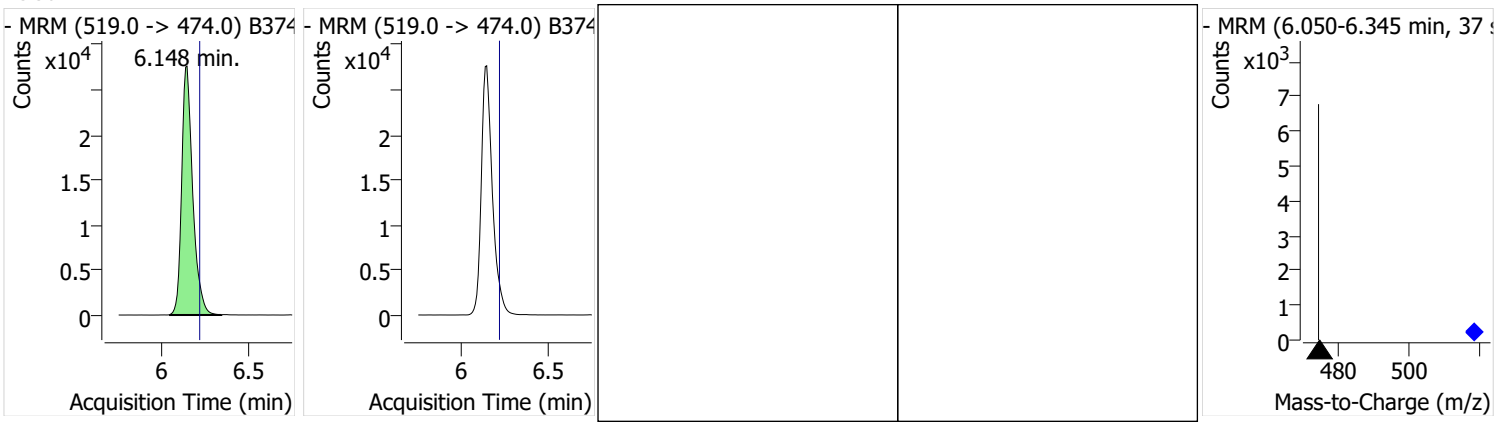

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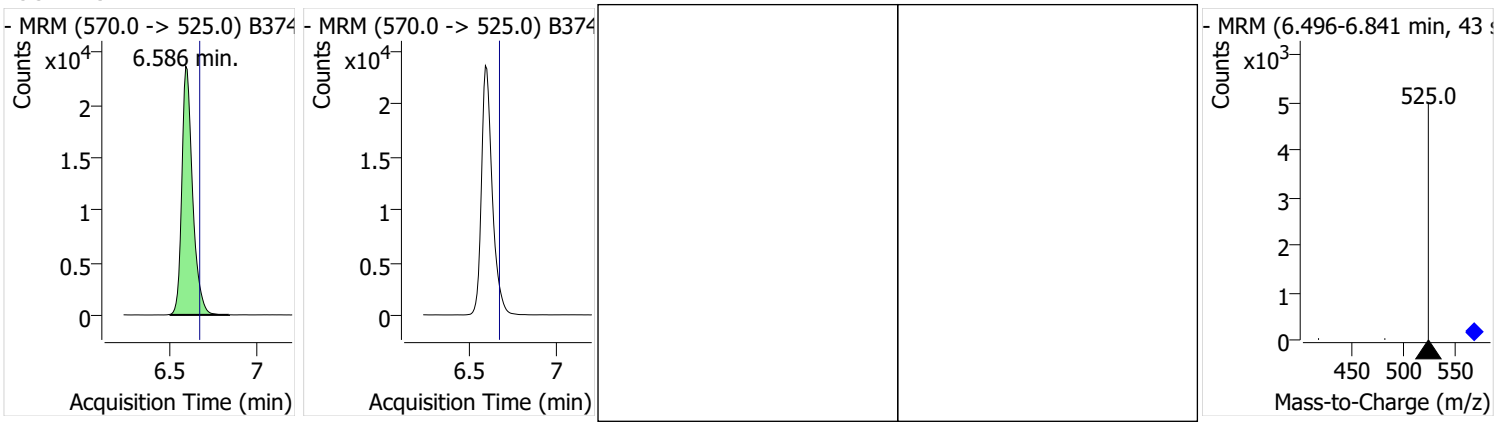

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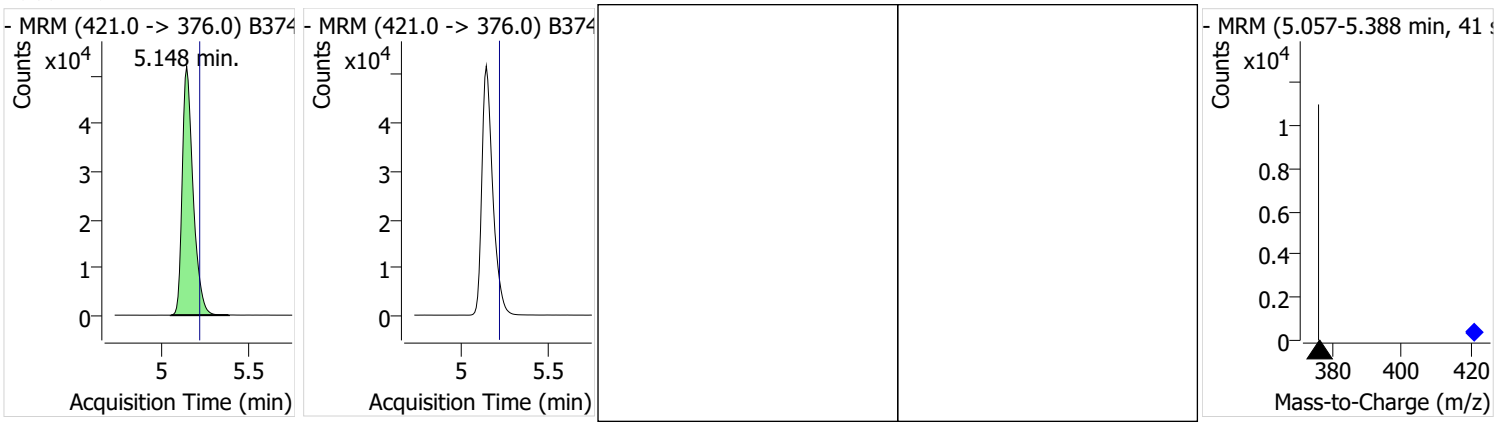

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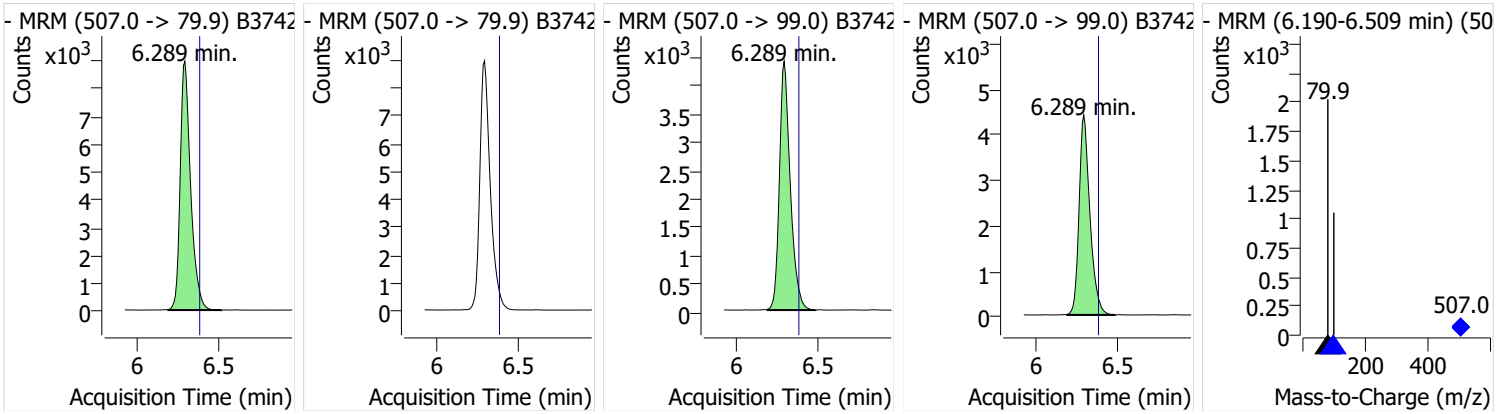

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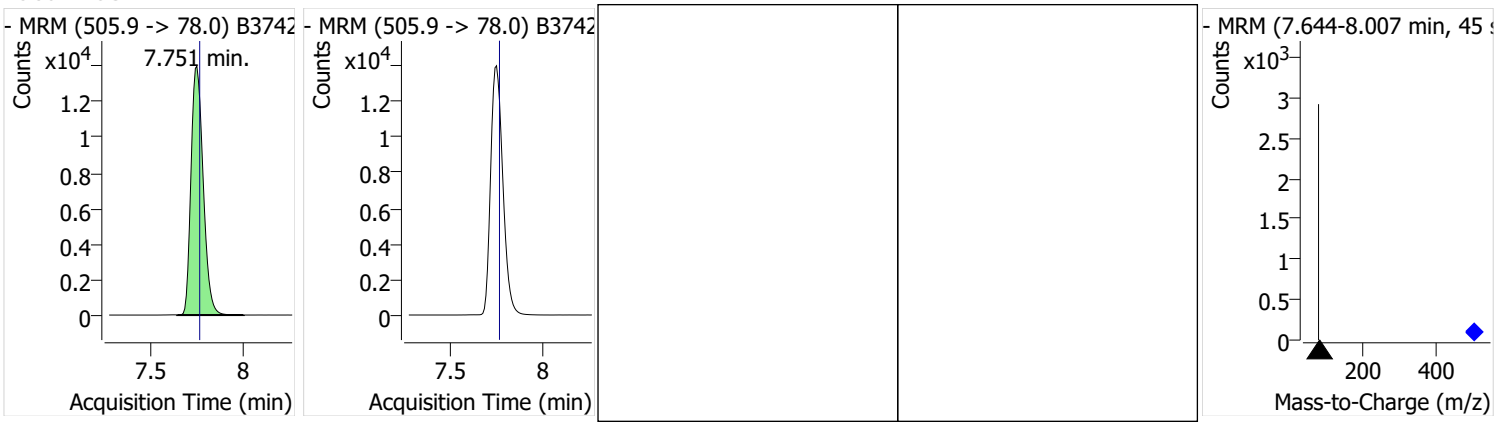

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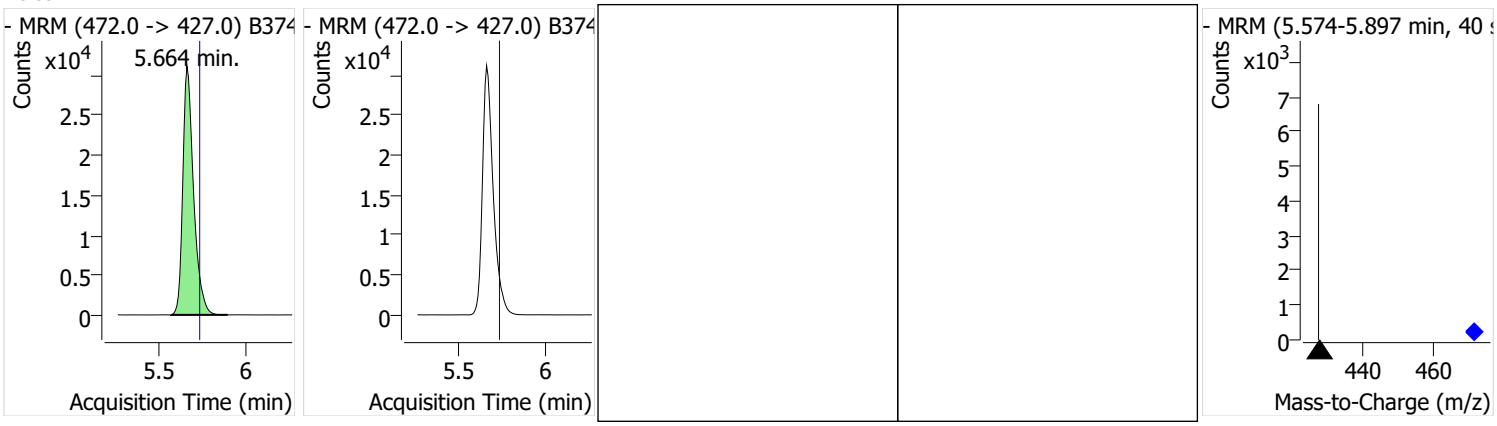
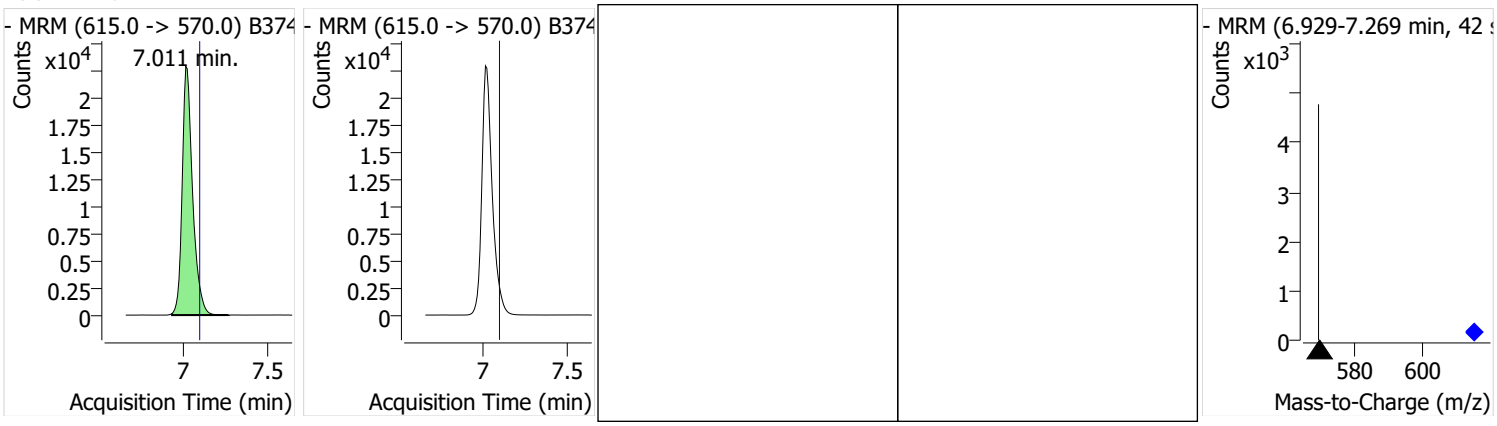
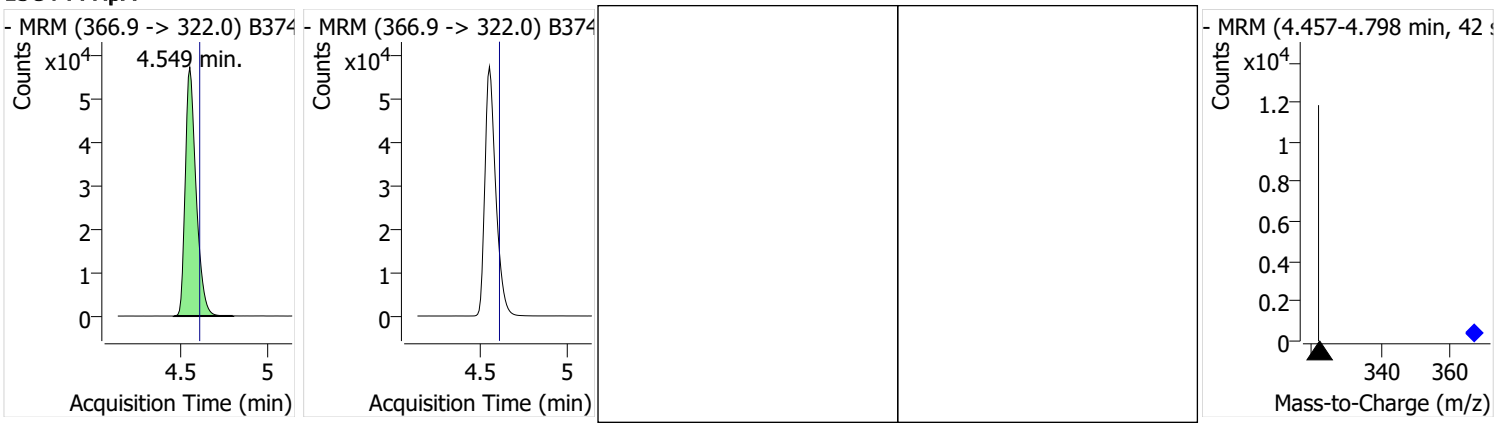


13C5-PFPeA

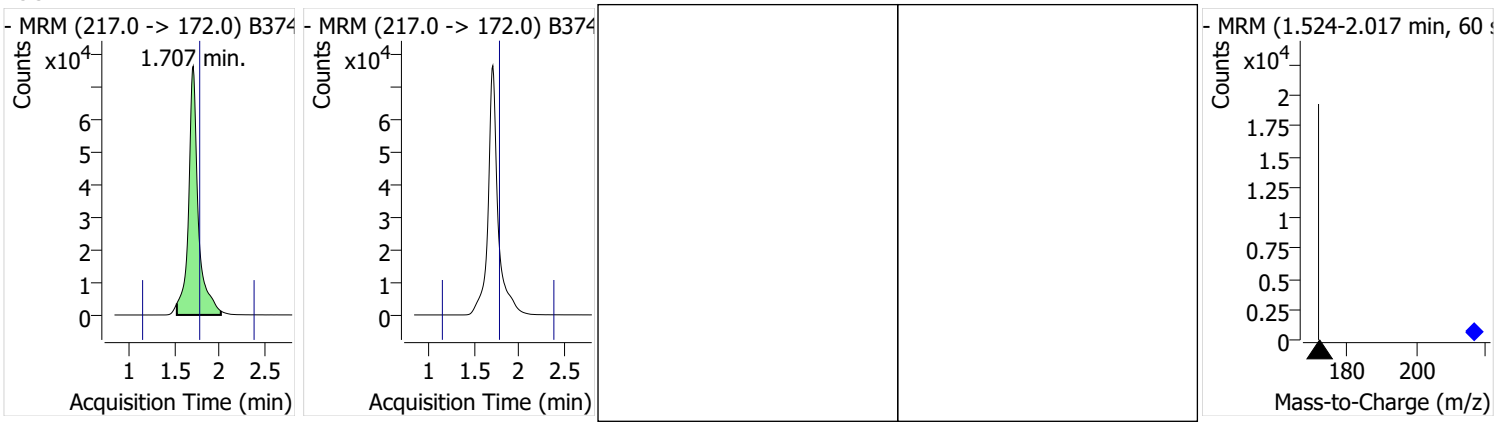
13C2-PFDoA



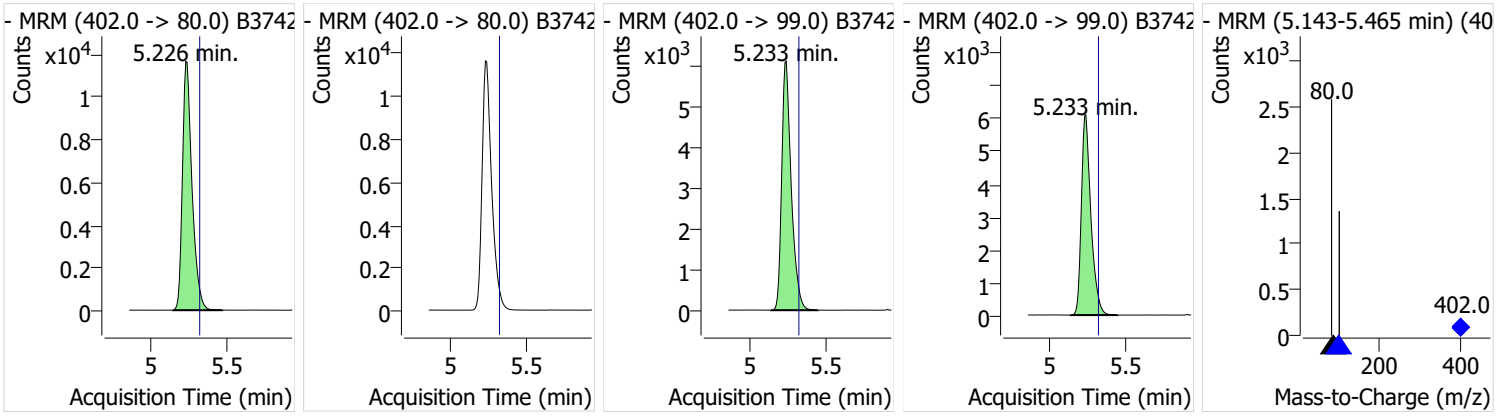
13C4-PFHpA



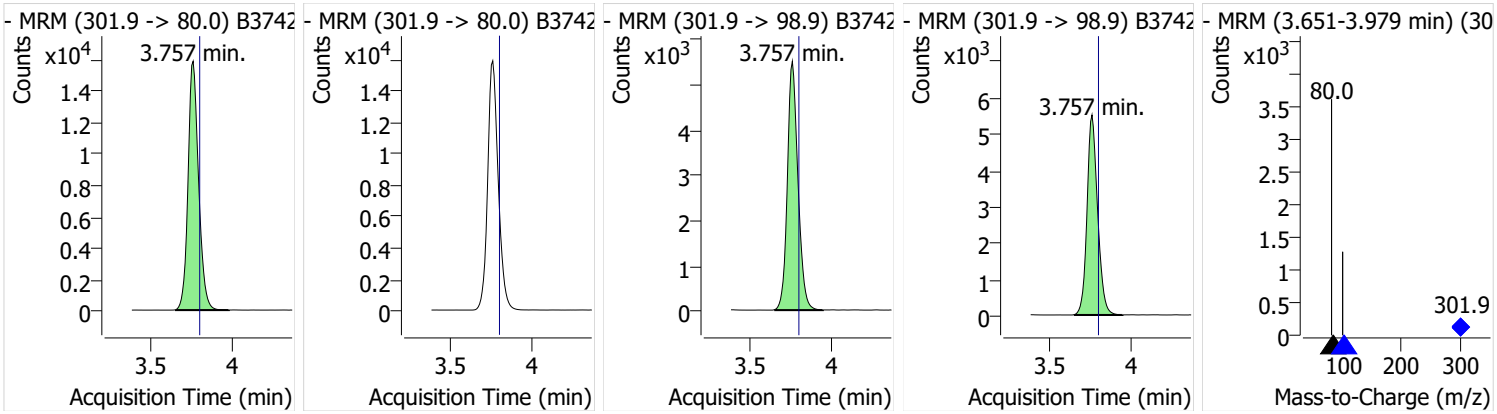
13C4-PFBA



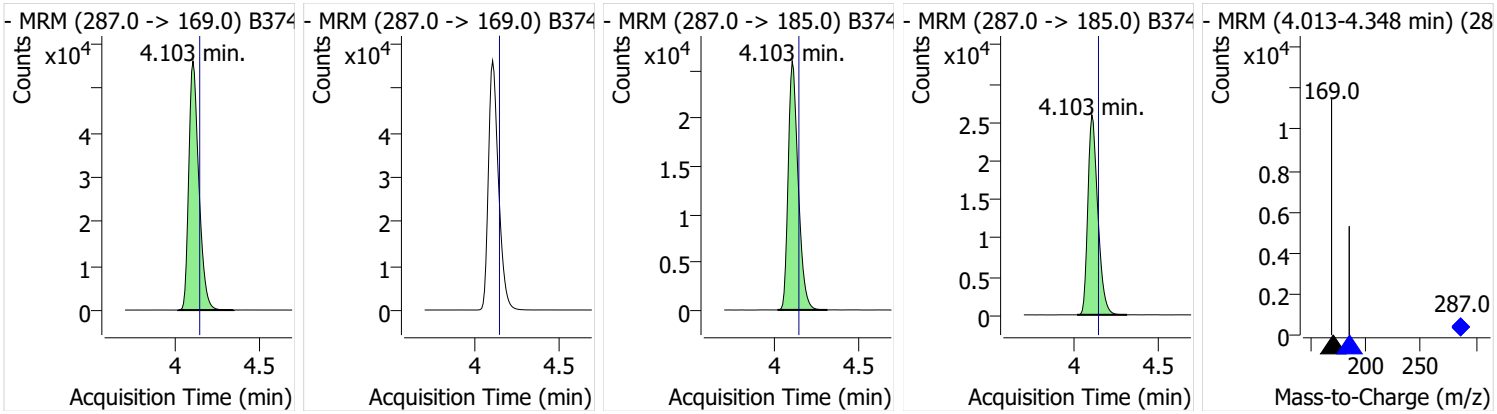
13C3-PFHxS



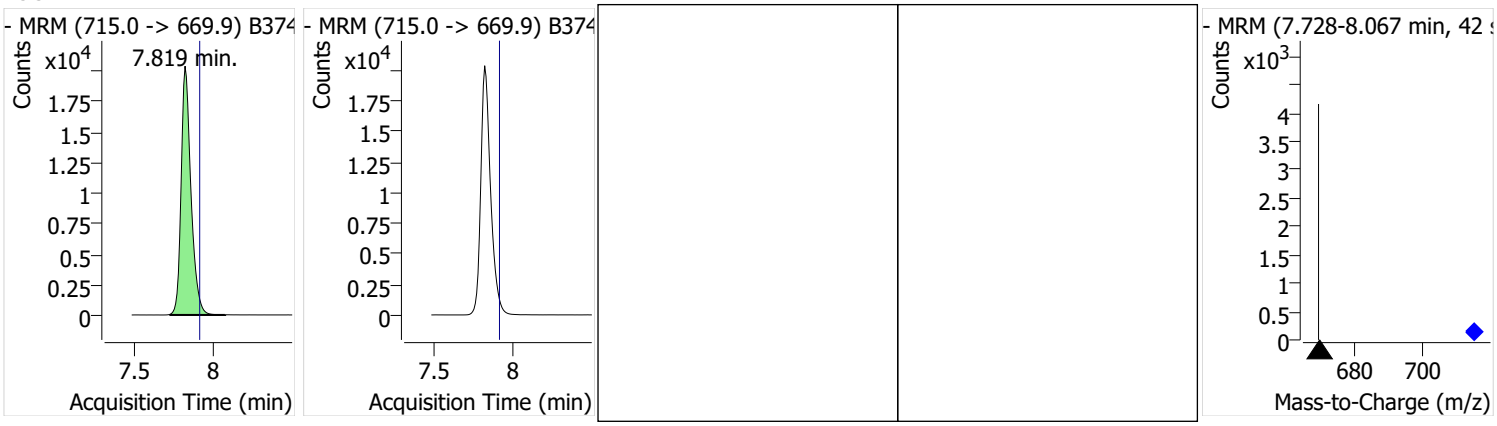
13C3-PFBS



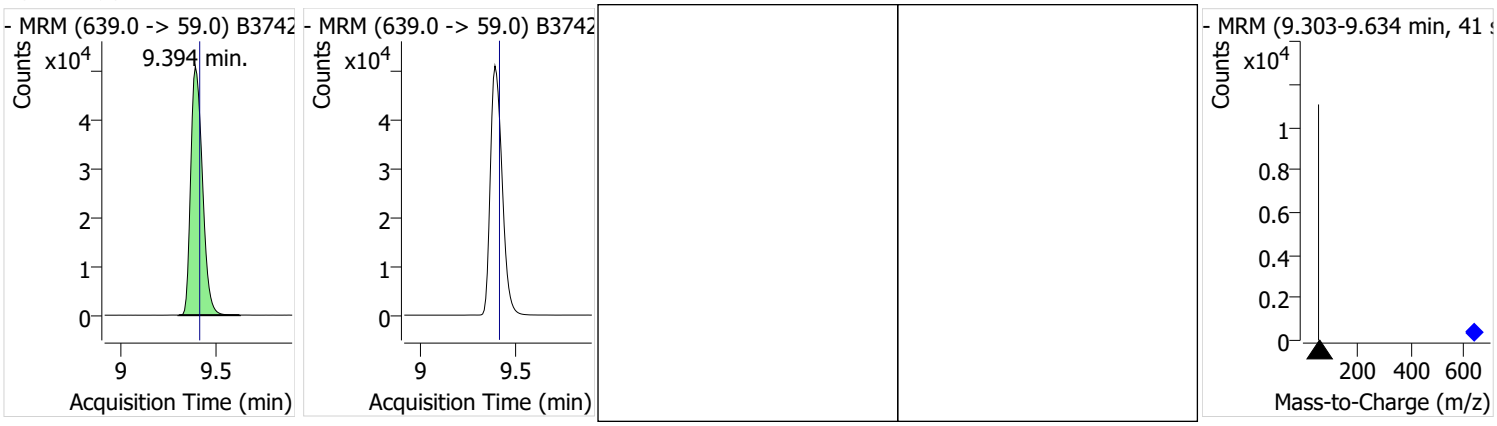
13C3-HFPODA



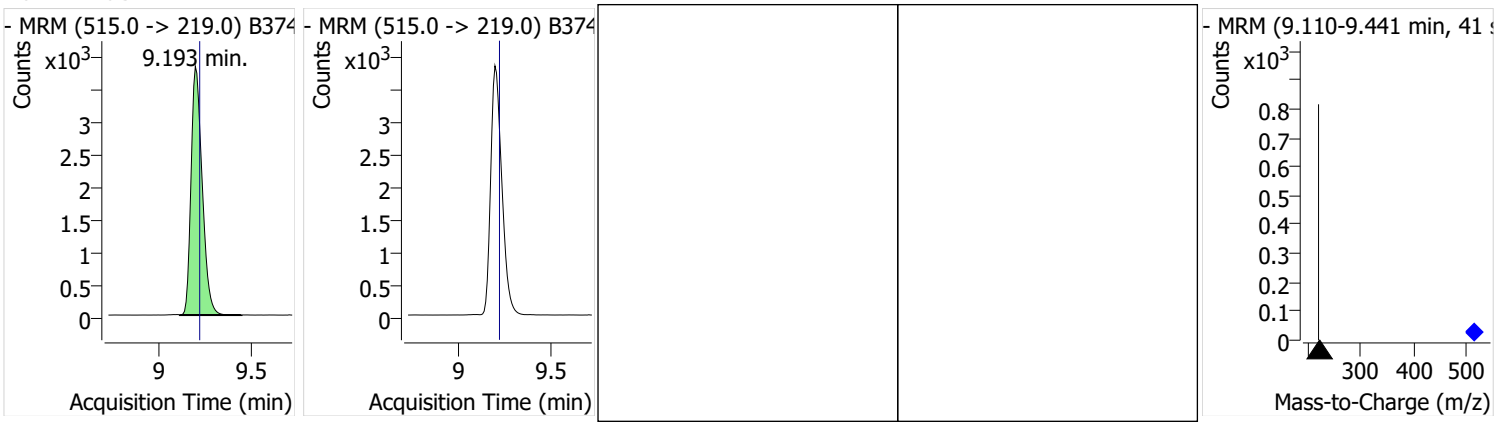
13C2-PFTeDA



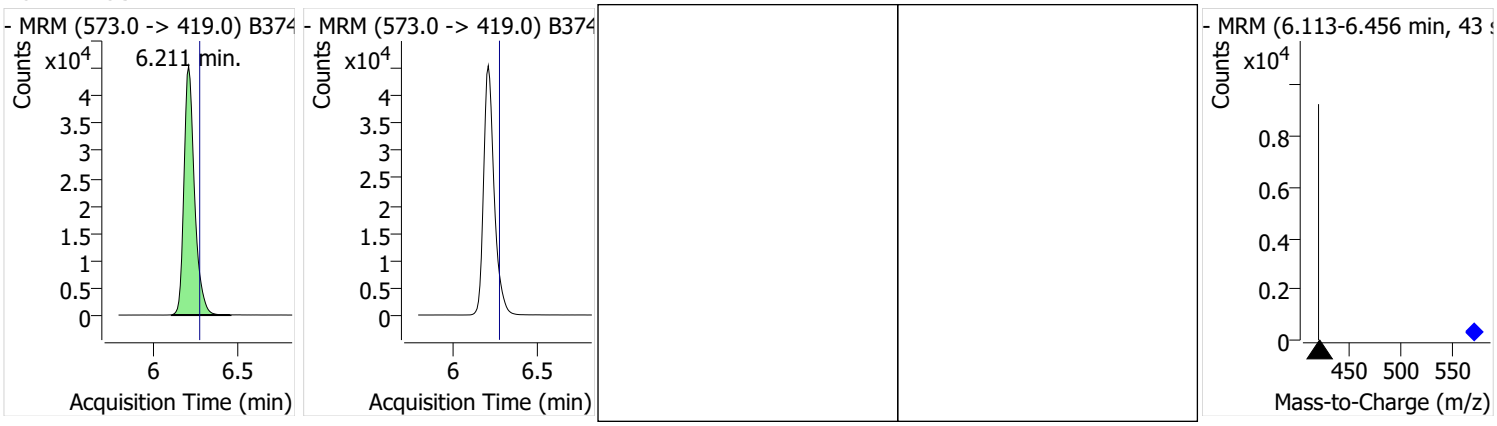
D9-NEtFOSE



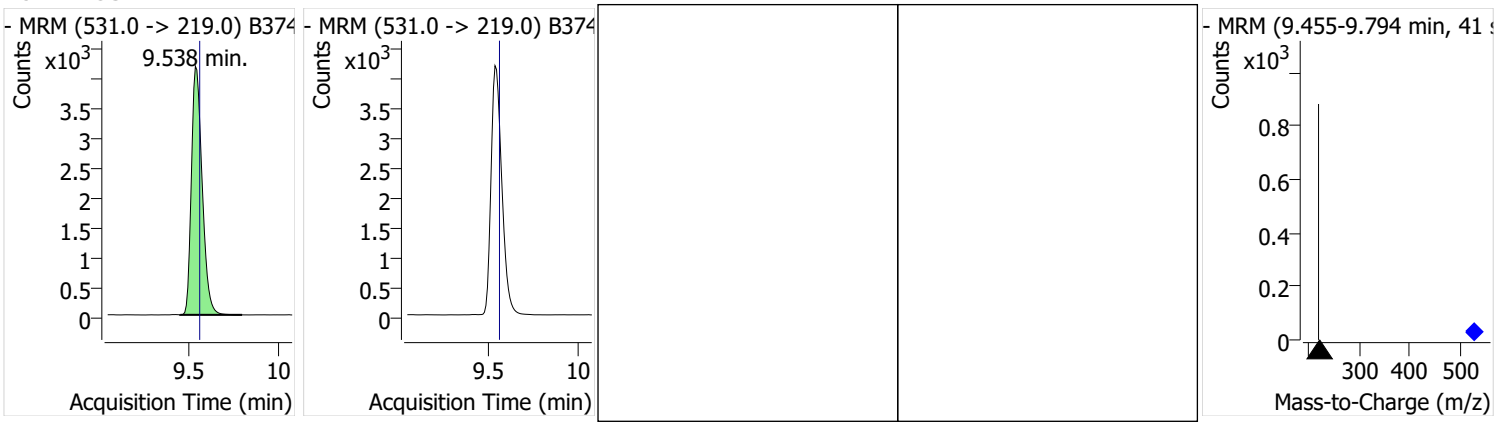
D3-NMeFOSA



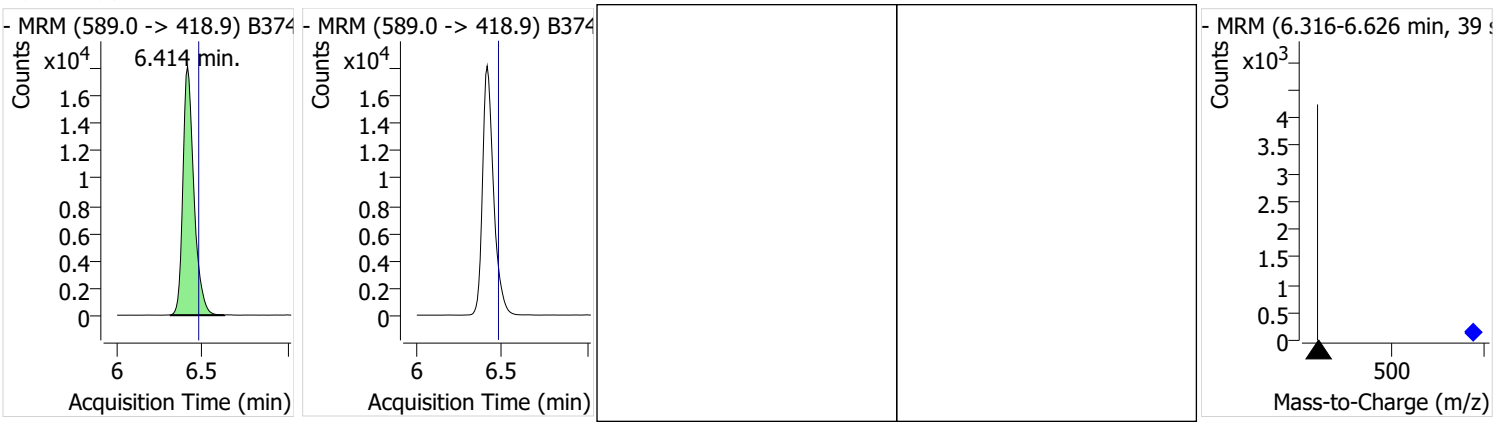
D3-NMeFOSAA



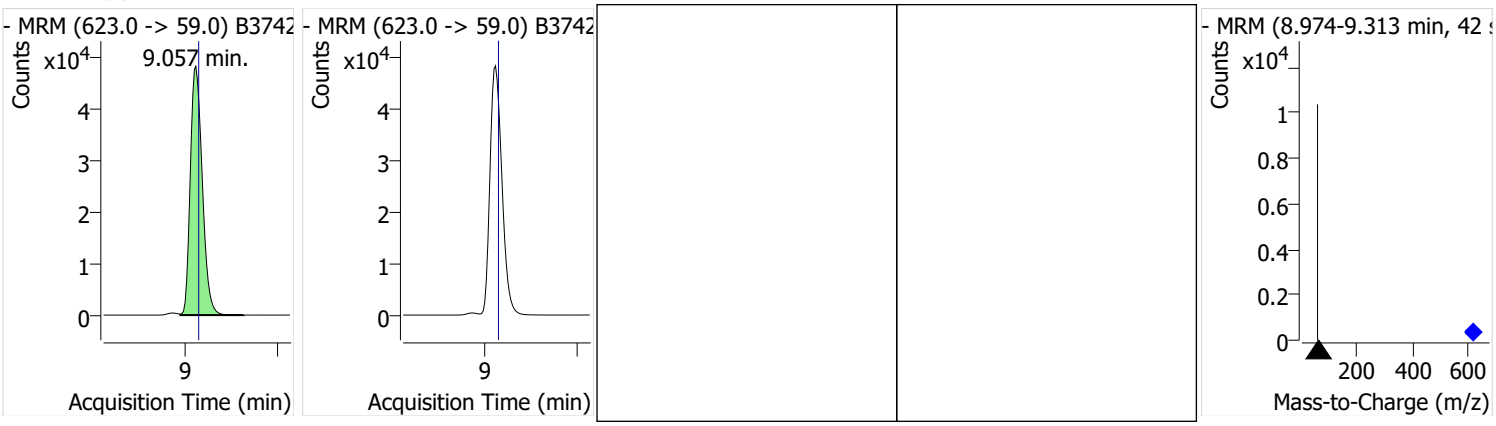
D5-NEtFOSE



D5-NEtFOSAA



D7-NMeFOSE



CRDL STANDARD

Draft Method 1633

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	QQQ5	Calibration:	2400593
Sequence:	S105135		

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
B374779-MRL1	Perfluorobutanoic acid (PFBA)	0.797	0.556	69.8	µg/kg wet	44 - 157
	Perfluoropentanoic acid (PFPeA)	0.399	0.274	68.8	µg/kg wet	57 - 148
	Perfluorohexanoic acid (PFHxA)	0.199	0.144	72.3	µg/kg wet	62 - 149
	Perfluoroheptanoic acid (PFHpA)	0.199	0.136	68.4	µg/kg wet	56 - 150
	Perfluorooctanoic acid (PFOA)	0.199	0.172	86.2	µg/kg wet	57 - 161
	Perfluorononanoic acid (PFNA)	0.199	0.146	73.4	µg/kg wet	53 - 157
	Perfluorodecanoic acid (PFDA)	0.199	0.148	74.0	µg/kg wet	43 - 158
	Perfluoroundecanoic acid (PFUnA)	0.199	0.144	72.2	µg/kg wet	50 - 155
	Perfluorododecanoic acid (PFDoA)	0.199	0.155	77.9	µg/kg wet	60 - 141
	Perfluorotridecanoic acid (PFTrDA)	0.199	0.137	68.8	µg/kg wet	52 - 140
	Perfluorotetradecanoic acid (PFTeDA)	0.199	0.147	73.8	µg/kg wet	52 - 156
	Perfluorobutanesulfonic acid (PFBS)	0.177	0.139	78.7	µg/kg wet	63 - 145
	Perfluoropentanesulfonic acid (PFPeS)	0.187	0.147	78.4	µg/kg wet	58 - 144
	Perfluorohexanesulfonic acid (PFHxS)	0.182	0.141	77.1	µg/kg wet	44 - 158
	Perfluoroheptanesulfonic acid (PFHpS)	0.190	0.147	77.2	µg/kg wet	51 - 150
	Perfluorooctanesulfonic acid (PFOS)	0.185	0.149	80.4	µg/kg wet	43 - 162
	Perfluorononanesulfonic acid (PFNS)	0.192	0.146	76.1	µg/kg wet	46 - 151
	Perfluorodecanesulfonic acid (PFDS)	0.192	0.136	70.9	µg/kg wet	50 - 144
	Perfluorododecanesulfonic acid (PFDoS)	0.193	0.147	76.3	µg/kg wet	30 - 138
	1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	0.747	0.559	74.8	µg/kg wet	52 - 158
	1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	0.757	0.770	102	µg/kg wet	48 - 158
	1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	0.767	0.531	69.2	µg/kg wet	46 - 165
	Perfluorooctanesulfonamide (PFOSA)	0.199	0.145	72.6	µg/kg wet	47 - 163
	N-methyl perfluorooctanesulfonamide (NMeFOSA)	0.199	0.146	73.4	µg/kg wet	54 - 155

CRDL STANDARD

Draft Method 1633

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	QQQ5	Calibration:	2400593
Sequence:	S105135		

B374779-MRL1	N-ethyl perfluorooctanesulfonamide (NEtFOSA)	0.199	0.149	74.6	µg/kg wet	49 - 156
	N-MeFOSAA (NMeFOSAA)	0.199	0.147	73.8	µg/kg wet	32 - 160
	N-EtFOSAA (NEtFOSAA)	0.199	0.129	64.9	µg/kg wet	51 - 154
	N-methylperfluorooctanesulfonamidoethanol(NMeFOSE)	1.99	1.51	75.5	µg/kg wet	56 - 151
	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	1.99	1.52	76.4	µg/kg wet	60 - 147
	Hexafluoropropylene oxide dimer acid (HFPO-DA)	0.797	0.608	76.2	µg/kg wet	58 - 154
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.752	0.547	72.8	µg/kg wet	61 - 148
	9Cl-PF3ONS (F53B Minor)	0.747	0.579	77.4	µg/kg wet	44 - 167
	11Cl-PF3OUdS (F53B Major)	0.752	0.580	77.1	µg/kg wet	36 - 158
	3-Perfluoropropyl propanoic acid (FPrPA)(3:3FTCA)	1.99	1.28	64.3	µg/kg wet	32 - 161
	2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA)	9.97	7.04	70.6	µg/kg wet	39 - 156
	3-Perfluoroheptyl propanoic acid (FHpPA)(7:3FTCA)	9.97	6.56	65.9	µg/kg wet	36 - 149
	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	0.355	0.275	77.5	µg/kg wet	56 - 144
	Perfluoro-3-methoxypropanoic acid (PFMPA)	0.399	0.319	80.0	µg/kg wet	48 - 150
	Perfluoro-4-methoxybutanoic acid (PFMBA)	0.399	0.302	75.7	µg/kg wet	49 - 154
	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	0.399	0.294	73.6	µg/kg wet	47 - 160
	13C4-PFBA	9.97	8.45	84.8	µg/kg wet	10 - 130
	13C5-PFPeA	4.98	4.08	81.9	µg/kg wet	35 - 150
	13C5-PFHxA	2.49	2.05	82.3	µg/kg wet	55 - 150
	13C4-PFHpA	2.49	2.07	83.0	µg/kg wet	55 - 150
	13C8-PFOA	2.49	2.11	84.5	µg/kg wet	60 - 140
	13C9-PFNA	1.25	1.02	82.1	µg/kg wet	55 - 140
	13C6-PFDA	1.25	1.07	85.8	µg/kg wet	50 - 140
	13C7-PFUnA	1.25	1.06	85.1	µg/kg wet	30 - 140
	13C2-PFDoA	1.25	0.993	79.7	µg/kg wet	10 - 150
	13C2-PFTeDA	1.25	0.974	78.1	µg/kg wet	10 - 130
	13C3-PFBS	2.49	2.02	81.1	µg/kg wet	55 - 150

CRDL STANDARD

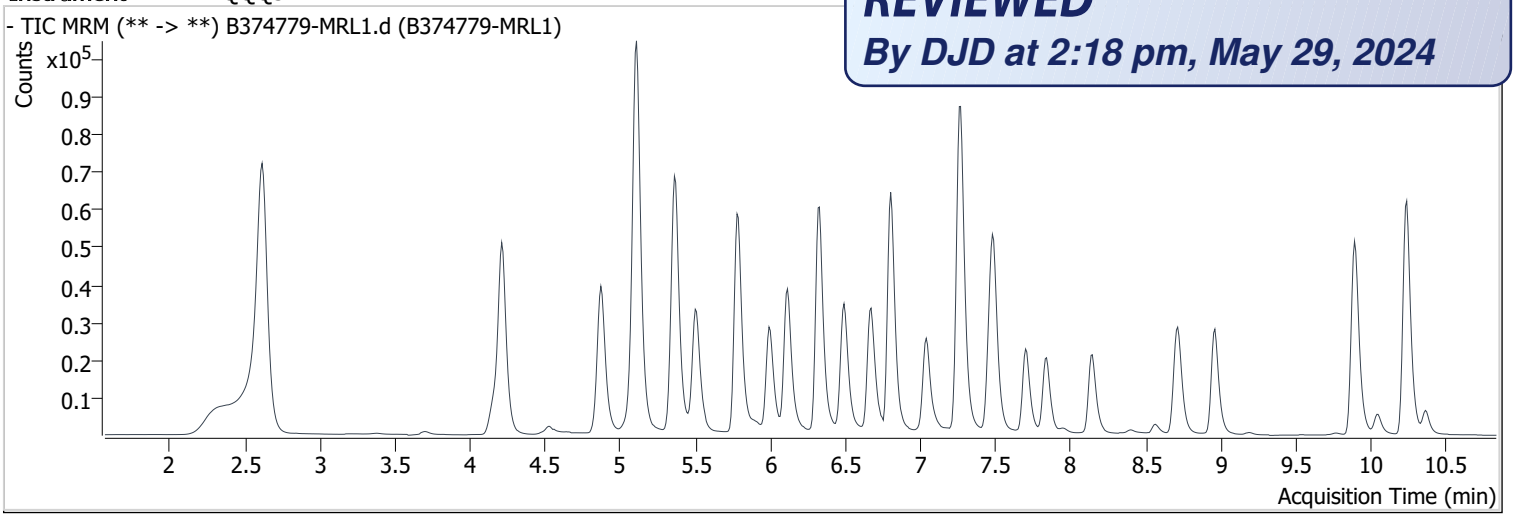
Draft Method 1633

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	QQQ5	Calibration:	2400593
Sequence:	S105135		

B374779-MRL1	13C3-PFHxS	2.49	2.03	81.4	µg/kg wet	55 - 150
	13C8-PFOS	2.49	2.03	81.6	µg/kg wet	45 - 140
	13C2-4:2FTS	4.98	3.80	76.3	µg/kg wet	60 - 200
	13C2-6:2FTS	4.98	3.81	76.6	µg/kg wet	60 - 200
	13C2-8:2FTS	4.98	3.80	76.2	µg/kg wet	50 - 200
	13C8-PFOSA	2.49	1.90	76.2	µg/kg wet	30 - 130
	D3-NMeFOSA	2.49	1.49	59.7	µg/kg wet	15 - 130
	D5-NEtFOSA	2.49	1.49	59.8	µg/kg wet	10 - 130
	D3-NMeFOSAA	4.98	4.23	84.8	µg/kg wet	45 - 200
	D5-NEtFOSAA	4.98	4.27	85.6	µg/kg wet	10 - 200
	D7-NMeFOSE	24.9	18.0	72.3	µg/kg wet	10 - 150
	D9-NEtFOSE	24.9	19.7	79.2	µg/kg wet	10 - 150
	13C3-HFPO-DA	9.97	8.24	82.7	µg/kg wet	25 - 160

Batch Path	D:\MassHunter\Data\MAY2024\052824\QuantResults\B374779_B375132.batch.bin		
Analysis Time	5/29/2024 12:02 PM	**Last Calib Update**	5/29/2024 8:40 AM
Acq. Time	5/28/2024 5:26 PM	**Data File**	B374779-MRL1.d
Sample Type	QC	**Sample Name**	B374779-MRL1
Dilution	1	**Acq. Method**	1633_ACQUISITION.m
Sample Comment		**Processing method**	[illegible]
Instrument	QQQ5		

REVIEWED
By DJD at 2:18 pm, May 29, 2024



Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
11Cl-PF3OUdS	8.724	37008	10547.33		13C3-HFPODA - ISTD	5.367	168136	0.5821	ng/ml			
633.0 -> 453.0			1506.64	19.8								
3:3FTCA	3.707	2433	2526.56		13C5-PFPeA - ISTD	4.212	215192	1.2864	ng/ml			
241.0 -> 117.0			164.63	55.7								
4:2FTS	4.871	12382	6695.07		13C2-4:2FTS - ISTD	4.870	35098	0.5606	ng/ml			
327.0 -> 80.9			415.46	34.5								
5:3FTCA	5.501	52909	6044.55		13C5-PFHxA - ISTD	5.109	145834	7.0647	ng/ml			
341.0 -> 217.0			7675.81	84.2								
6:2FTS	6.114	11803	10611.51		13C2-6:2FTS - ISTD	6.114	26855	0.7730	ng/ml			
427.0 -> 80.9			1122.73	40.1								
7:3FTCA	6.674	61773	12149.06		13C5-PFHxA - ISTD	5.109	145834	6.5863	ng/ml			
441.0 -> 317.0			6239.43	92.0								
8:2FTS	7.039	5184	30299.36		13C2-8:2FTS - ISTD	7.039	27103	0.5327	ng/ml			
527.0 -> 81.0			664.00	62.0								
9Cl-PF3ONS	7.843	55399	2044.67		13C3-HFPODA - ISTD	5.367	168136	0.5805	ng/ml			
533.0 -> 353.0			342.03	28.4								
ADONA	5.995	69380	6910.83		13C3-HFPODA - ISTD	5.367	168136	0.5493	ng/ml			
377.0 -> 85.1			5467.48	38.9								
HFPO-DA	5.368	8756	2221.57		13C3-HFPODA - ISTD	5.367	168136	0.6100	ng/ml			
285.0 -> 184.9			326.10	49.4								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
NEtFOSA	10.373	1293	2653.28		D5-NEtFOSA - ISTD	10.362	16368	0.1492	ng/ml			
526.0 -> 219.0			1160.56	96.5								
NEtFOSAA	7.461	2146	318.67		D5-NEtFOSAA - ISTD	7.461	78226	0.1298	ng/ml	✔	3	AMS 05/29/24
584.0 -> 526.0			124.53	62.7								
NEtFOSE	10.253	14798	6153.35		D9-NEtFOSE - ISTD	10.236	210761	1.5289	ng/ml			
NFDHA	5.023	1203	504.15		13C5-PFHxA - ISTD	5.109	145834	0.2946	ng/ml			
295.0 -> 85.0			151.14	33.2								
NMeFOSA	10.053	1104	1071.87		D3-NMeFOSA - ISTD	10.051	16034	0.1467	ng/ml			
512.0 -> 219.0			1718.15	96.3								
NMeFOSAA	7.266	1666	559.92		D3-NMeFOSAA - ISTD	7.266	154798	0.1476	ng/ml	✔	3	AMS 05/29/24
570.0 -> 418.9			1676.46	62.9								
NMeFOSE	9.915	12169	6800.00		D7-NMeFOSE - ISTD	9.890	179851	1.5105	ng/ml			
PFBA	2.620	12376	360.91		13C4-PFBA - ISTD	2.614	244760	0.5584	ng/ml	✔	3	AMS 05/29/24
PFBS	5.121	4060	672.72		13C3-PFBS - ISTD	5.120	61545	0.1396	ng/ml			
298.9 -> 98.8			242.71	42.5								
PFDA	7.262	8571	241.45		13C6-PFDA - ISTD	7.261	73911	0.1480	ng/ml			
513.0 -> 219.0			403.32	22.2								
PFDoA	8.145	8291	228.90		13C2-PFDoA - ISTD	8.145	66276	0.1558	ng/ml			
613.0 -> 319.0			653.63	15.4								
PFDoS	9.197	1342	494.64		13C8-PFOS - ISTD	7.492	37157	0.1480	ng/ml			
698.9 -> 99.0			454.86	66.5								
PFDS	8.403	1780	380.99		13C8-PFOS - ISTD	7.492	37157	0.1369	ng/ml			
599.0 -> 98.8			758.31	57.1								
PFEESA	5.503	23599	2939.72		13C5-PFHxA - ISTD	5.109	145834	0.2759	ng/ml			
315.0 -> 83.0			250.58	6.4								
PFHpA	5.789	10867	355.97		13C4-PFHpA - ISTD	5.781	191872	0.1368	ng/ml			
362.9 -> 169.0			8590.01	16.9								
PFHpS	7.011	2625	422.72		13C8-PFOS - ISTD	7.492	37157	0.1470	ng/ml			
449.0 -> 98.8			352.73	54.1								
PFHxA	5.103	8260	401.76		13C5-PFHxA - ISTD	5.109	145834	0.1445	ng/ml			
313.0 -> 118.9			28.09	3.2								
PFHxS	6.497	2870	503.34		13C3-PFHxS - ISTD	6.496	42649	0.1411	ng/ml	✔	3	AMS 05/29/24
398.9 -> 99.0			555.60	48.1								
PFMBA	4.530	8578	7298.72		13C5-PFPeA - ISTD	4.212	215192	0.3027	ng/ml			
PFMPA	3.382	960	788.77		13C5-PFPeA - ISTD	4.212	215192	0.3202	ng/ml	✔	3	AMS 05/29/24
PFNA	6.804	9388	303.05		13C9-PFNA - ISTD	6.804	81175	0.1468	ng/ml			
463.0 -> 219.0			940.46	25.3								
PFNS	7.959	2344	700.93		13C8-PFOS - ISTD	7.492	37157	0.1465	ng/ml			
549.0 -> 98.8			498.53	59.0								

Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
PFOA	6.329	13610	67.75		13C8-PFOA - ISTD	6.320	172009	0.1723	ng/ml	✔	3	AMS 05/29/24
413.0 -> 169.0			∞	18.2								
PFOS	7.493	2686	363.72		13C8-PFOS - ISTD	7.492	37157	0.1491	ng/ml	✔	3	AMS 05/29/24
499.0 -> 99.0			153.43	50.2								
PFOSA	8.702	3919	36261.91		13C8-PFOSA - ISTD	8.709	62658	0.1452	ng/ml			
497.9 -> 478.0			987.02	3.3								
PFPeA	4.214	11670	179.63		13C5-PFPeA - ISTD	4.212	215192	0.2752	ng/ml			
263.0 -> 69.0			44.58	0.3								
PFPeS	5.898	3405	450.53		13C3-PFHxS - ISTD	6.496	42649	0.1474	ng/ml			
349.0 -> 98.9			337.24	49.4								
PFTeDA	8.959	10016	582.92		13C2-PFTeDA - ISTD	8.958	87623	0.1476	ng/ml			
713.0 -> 168.9			1545.52	8.1								
PFTrDA	8.565	7580	552.19		13C2-PFDoA - ISTD	8.145	66276	0.1376	ng/ml			
663.0 -> 168.9			1211.74	16.1								
PFUnA	7.702	7681	276.03		13C7-PFUnA - ISTD	7.701	68574	0.1445	ng/ml			
563.0 -> 269.1			426.26	25.7								
TDCA	5.638	3	2.03					-	ng/ml			
499.0 -> 99.0				*								
13C2-8:2FTS	7.038	53182	154169.19		18O2-PFHxS	6.495	51093	3.8115	ng/ml			
529.0 -> 81.0			6976.67	51.0								
13C2-4:2FTS	4.870	99237	31352.50		18O2-PFHxS	6.495	51093	3.8152	ng/ml			
329.0 -> 81.0			8267.57	35.4								
13C2-6:2FTS	6.113	88497	70257.56		18O2-PFHxS	6.495	51093	3.8278	ng/ml			
429.0 -> 81.0			12422.35	30.3								
13C5-PFHxA	5.109	145834	12130.61		13C2-PFHxA	5.110	167349	2.0567	ng/ml			
318.0 -> 120.0			271.97	1.5								
13C6-PFDA	7.261	73911	5434.44		13C2-PFDA	7.262	86571	1.0722	ng/ml			
13C7-PFUnA	7.701	68574	11754.32		13C2-PFDA	7.262	86571	1.0640	ng/ml			
13C8-PFOA	6.320	172009	27298.65		13C4-PFOA	6.329	24870	2.1137	ng/ml			
13C8-PFOS	7.492	37157	6091.35		13C4-PFOS	7.492	49099	2.0403	ng/ml			
507.0 -> 99.0			2971.67	54.9								
13C8-PFOSA	8.709	62658	342528.73		13C4-PFOS	7.492	49099	1.9041	ng/ml			
13C9-PFNA	6.804	81175	13692.52		13C5-PFNA	6.804	128508	1.0266	ng/ml			
13C5-PFPeA	4.212	215192	22355.08		13C2-PFHxA	5.110	167349	4.0928	ng/ml			
13C2-PFDoA	8.145	66276	9277.79		13C2-PFDA	7.262	86571	0.9963	ng/ml			
13C4-PFHpA	5.781	191872	27074.95		13C2-PFHxA	5.110	167349	2.0743	ng/ml			

Quantitative Analysis Sample Report

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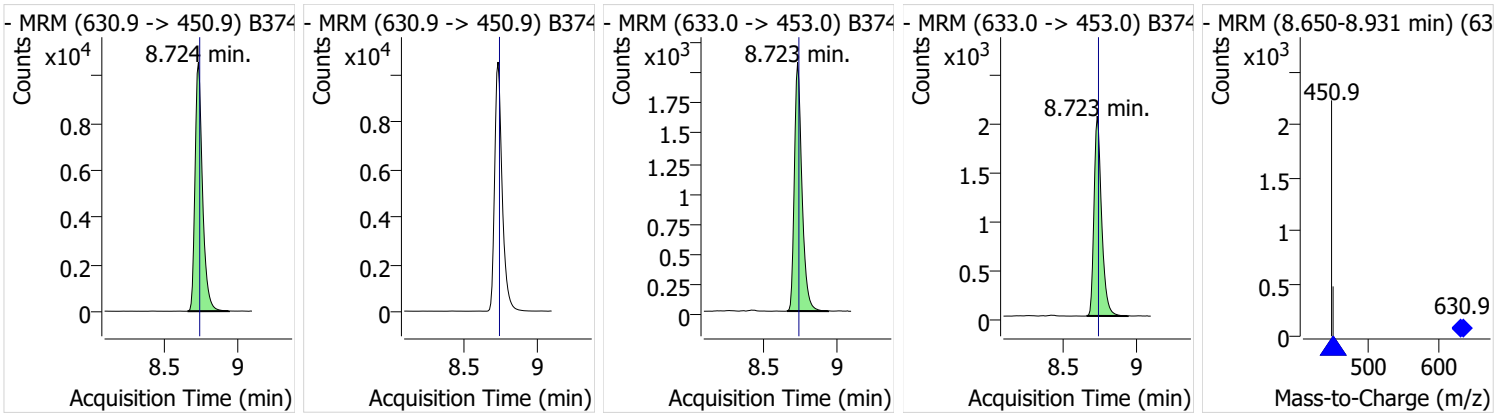
Compound	RT	Response	S/N	QRatio	ISTD	RT	ISTD Resp.	Final Conc	Units	MI	Reason	Analyst & Date
13C4-PFBA	2.614	255146	75378.94		13C3-PFBA	2.617	137676	8.4834	ng/ml	✔	3	AMS 05/29/24
13C3-PFHxS	6.496	42649	15189.91		18O2-PFHxS	6.495	51093	2.0340	ng/ml			
402.0 -> 99.0			23001.62	53.2								
13C3-PFBS	5.120	61545	12902.43		18O2-PFHxS	6.495	51093	2.0284	ng/ml			
301.9 -> 98.9			4534.30	37.6								
13C3-HFPODA	5.367	168136	24144.13		13C2-PFHxA	5.110	167349	8.2681	ng/ml			
287.0 -> 185.0			7772.49	45.0								
13C2-PFTeDA	8.958	87623	18980.64		13C2-PFDA	7.262	86571	0.9769	ng/ml			
D9-NEtFOSE	10.236	210761	40095.82		13C4-PFOS	7.492	49099	19.7983	ng/ml			
D3-NMeFOSA	10.051	16034	9975.64		13C4-PFOS	7.492	49099	1.4915	ng/ml			
D3-NMeFOSAA	7.266	154798	24419.39		13C4-PFOS	7.492	49099	4.2423	ng/ml			
D5-NEtFOSA	10.362	16368	5190.46		13C4-PFOS	7.492	49099	1.4956	ng/ml			
D5-NEtFOSAA	7.461	78226	14905.99		13C4-PFOS	7.492	49099	4.2822	ng/ml			
D7-NMeFOSE	9.890	179851	56152.28		13C4-PFOS	7.492	49099	18.0786	ng/ml			

11Cl-PF3OUdS



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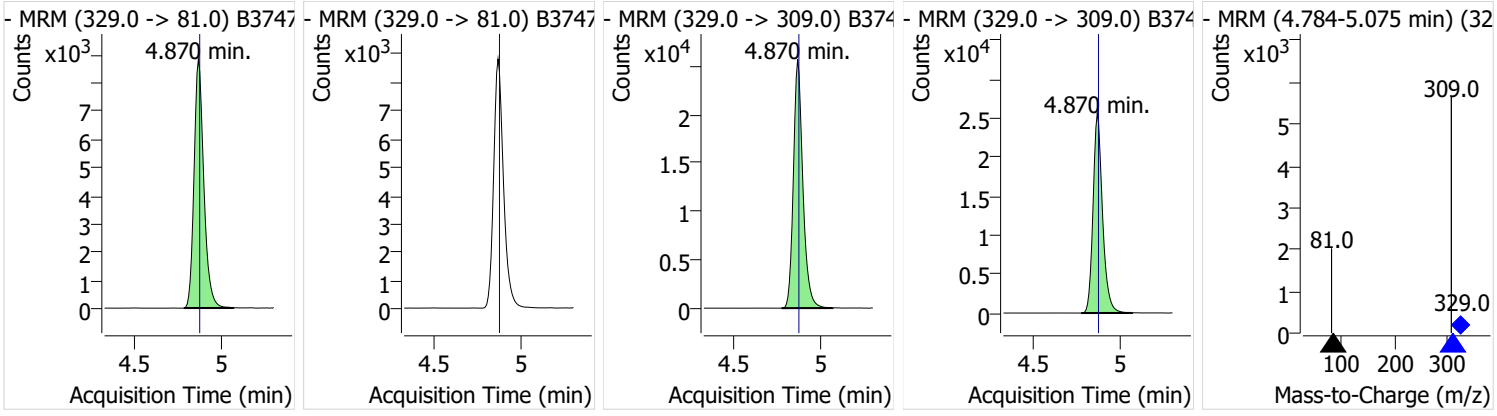

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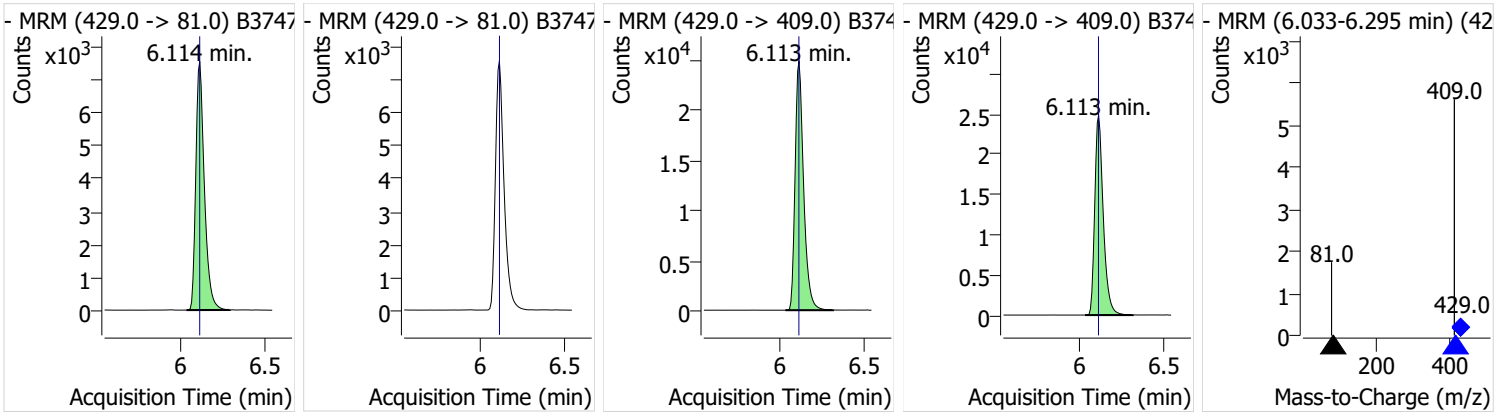
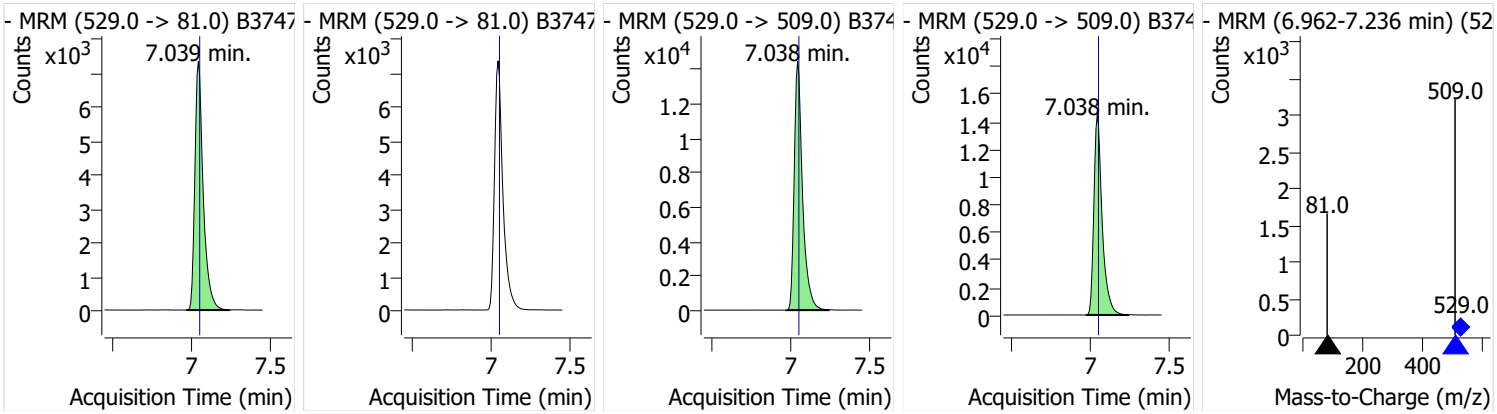
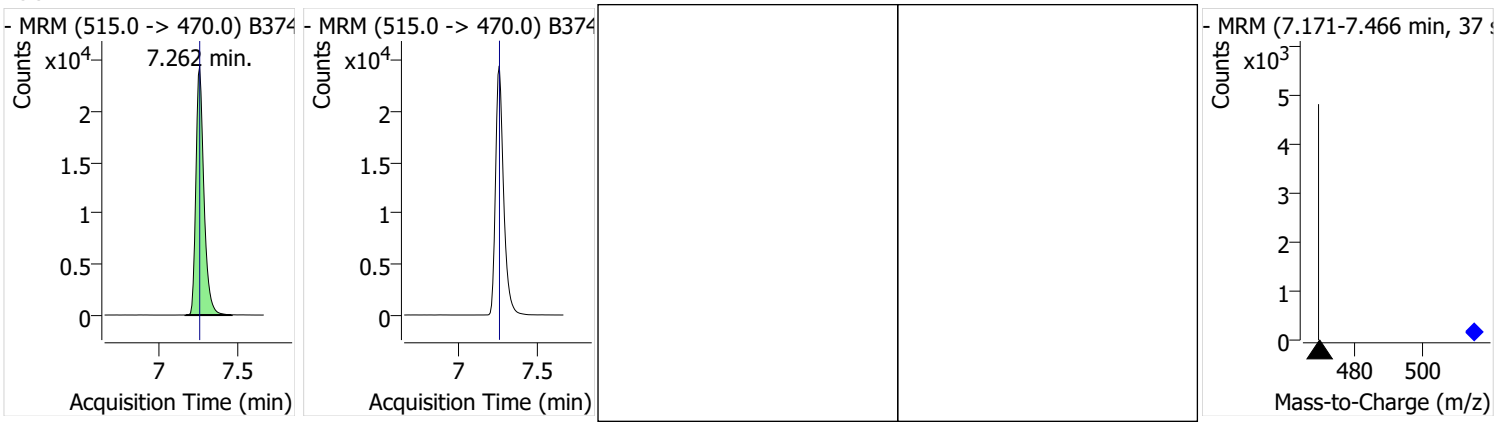


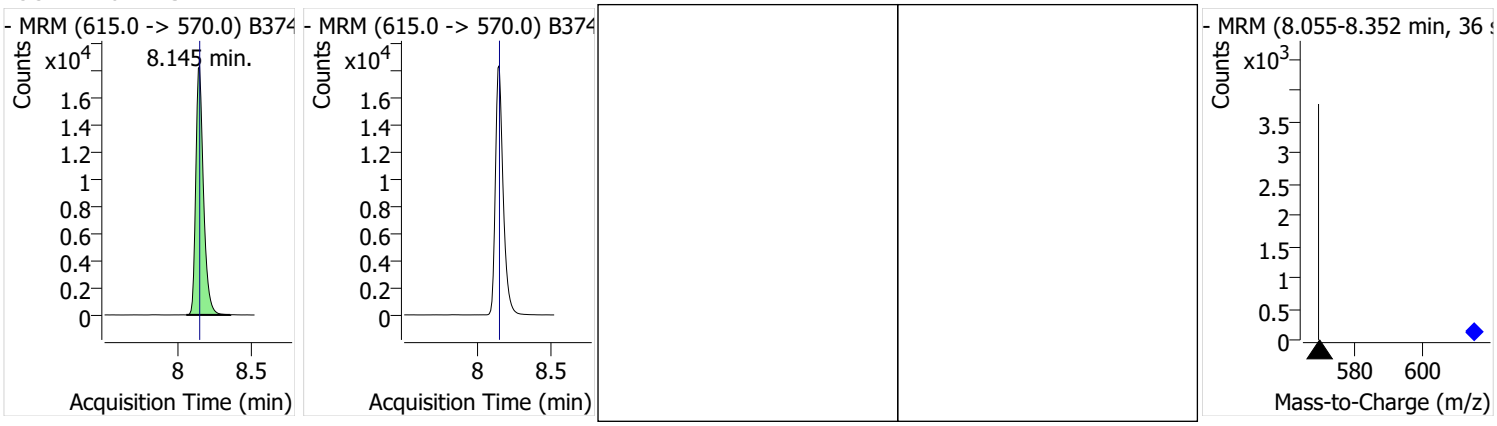
13C2-8:2FTS - ISTD



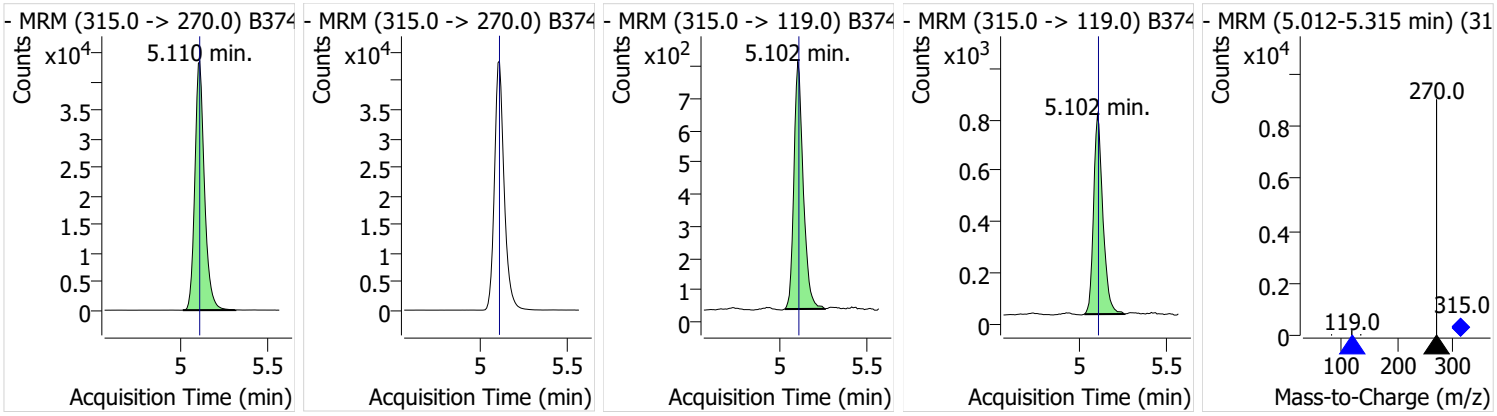
13C2-PFDA



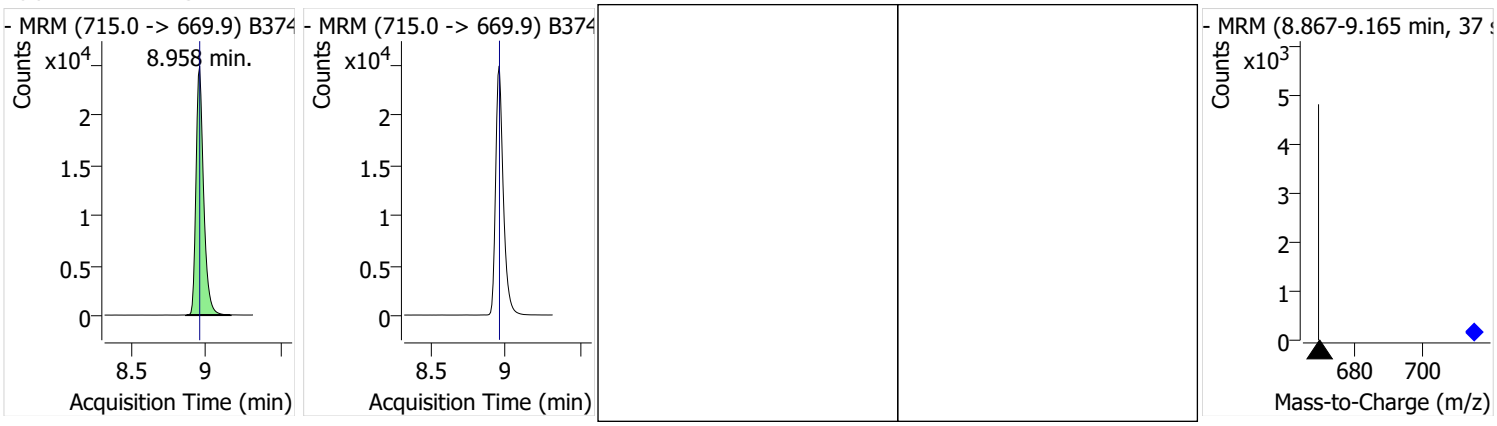
13C2-PFDoA - ISTD



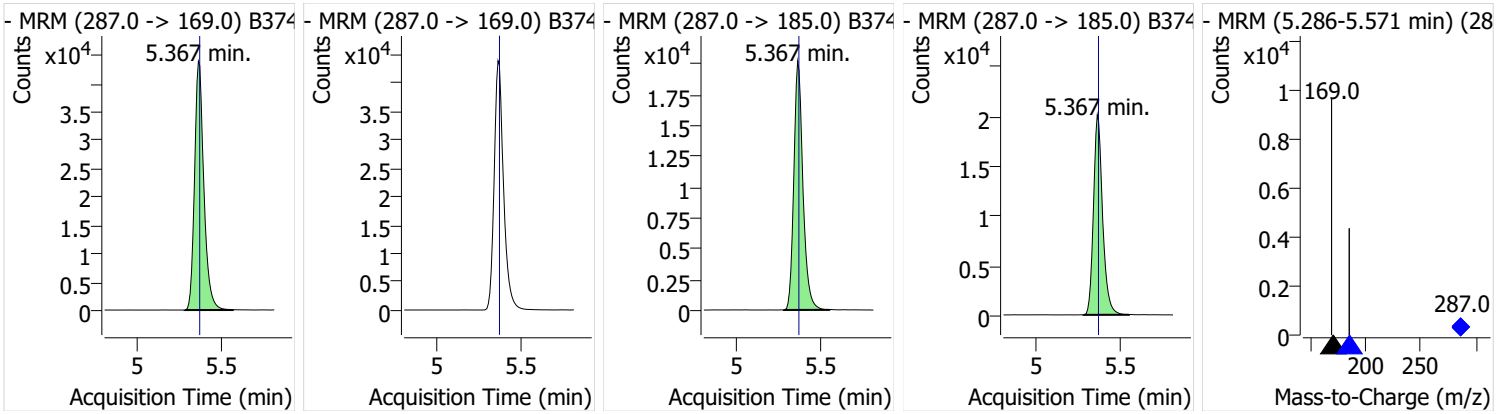
13C2-PFHxA



13C2-PFTeDA - ISTD



13C3-HFPODA - ISTD



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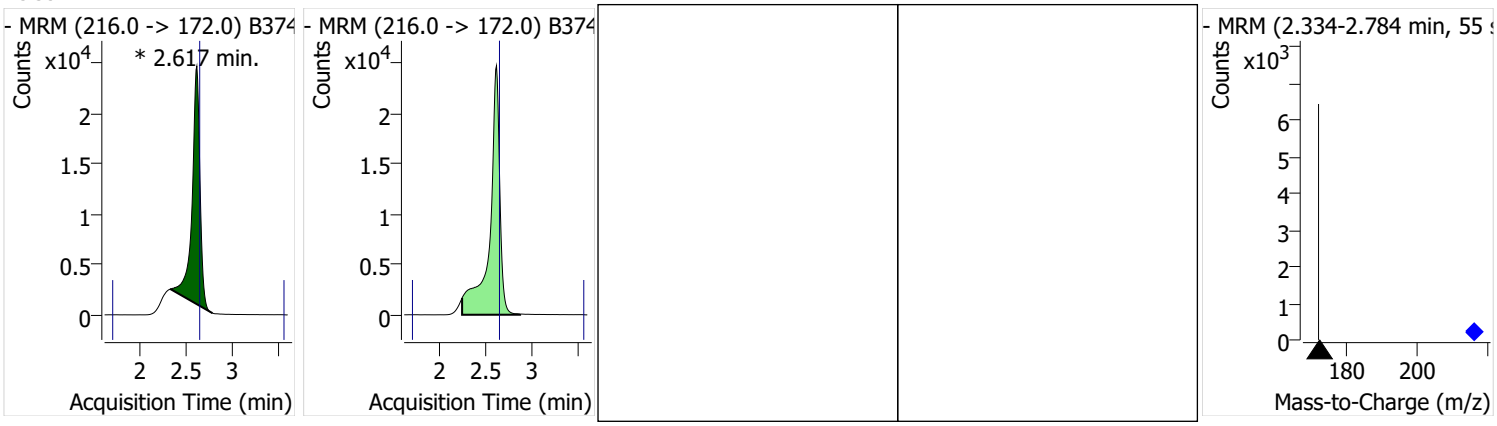
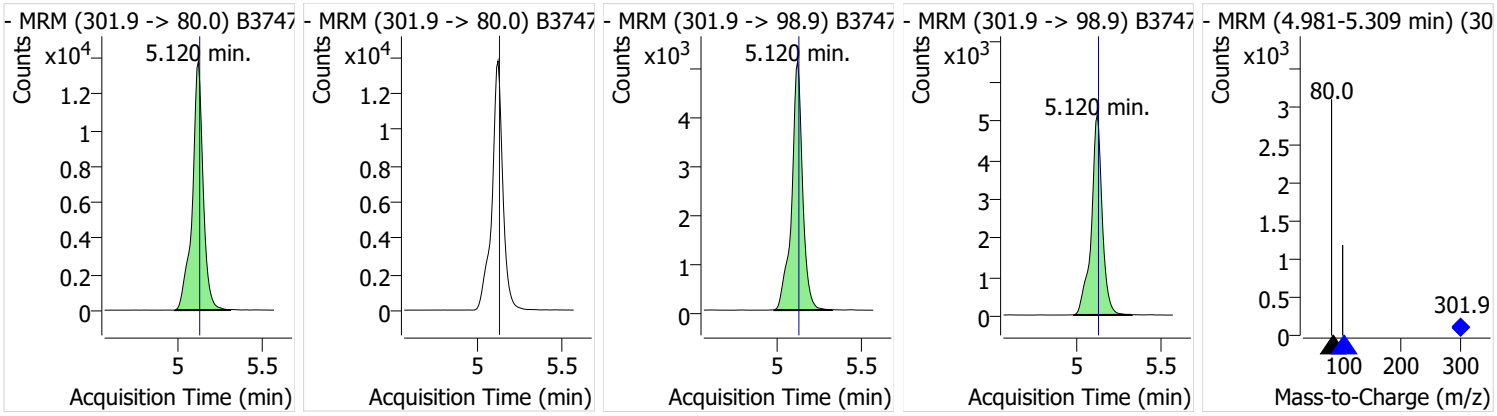
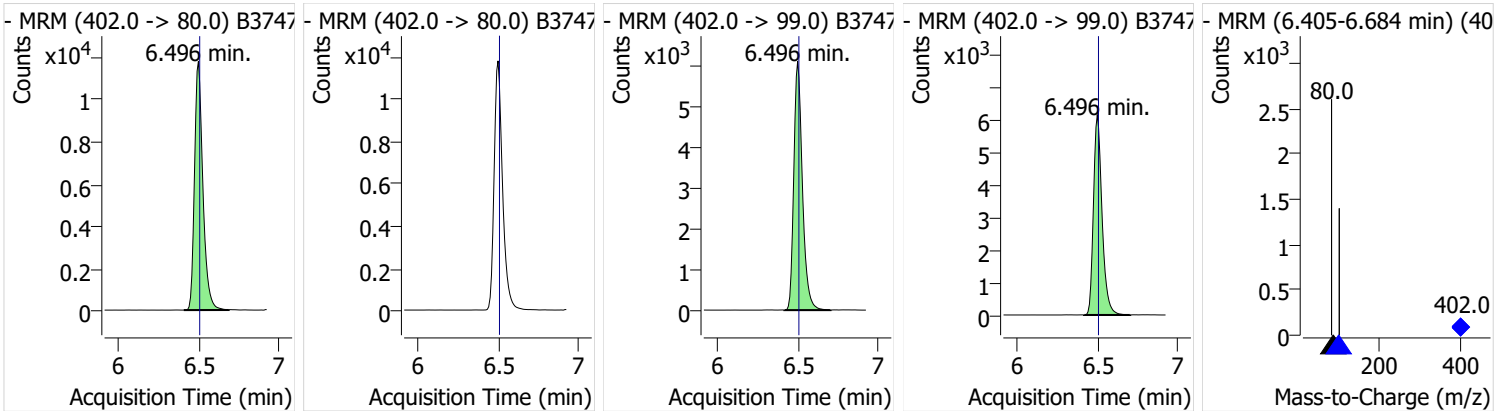


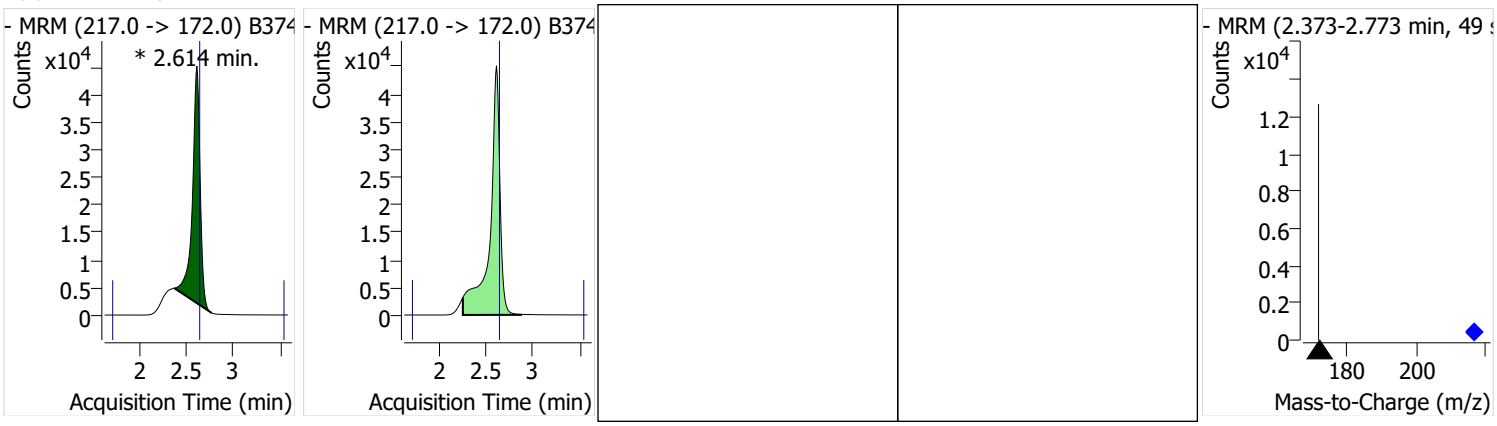
13C3-PFBS - ISTD



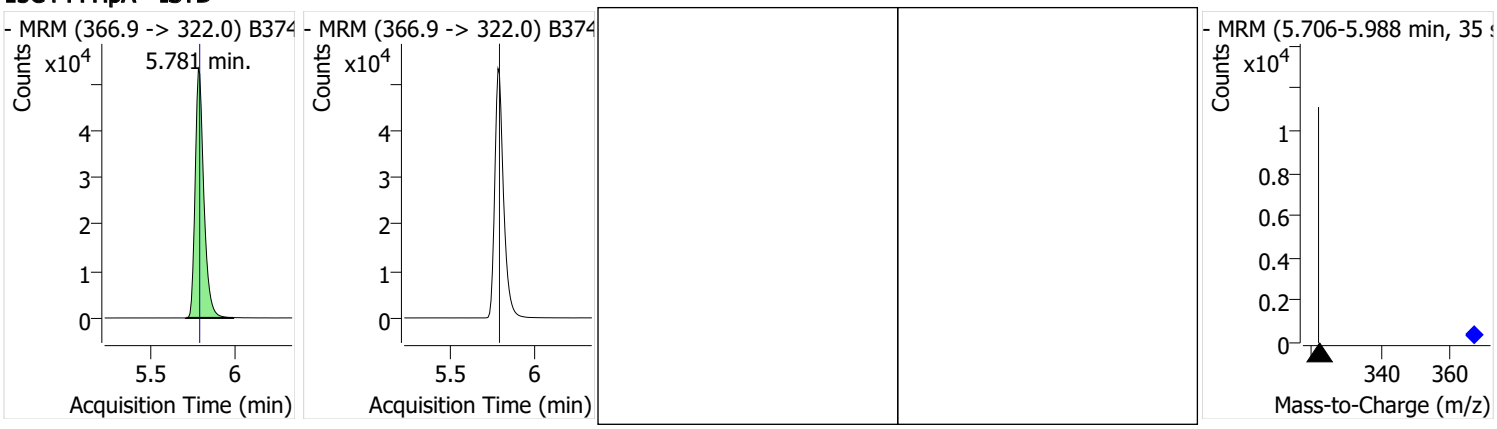
13C3-PFHxS - ISTD



13C4-PFBA - ISTD



13C4-PFHpA - ISTD



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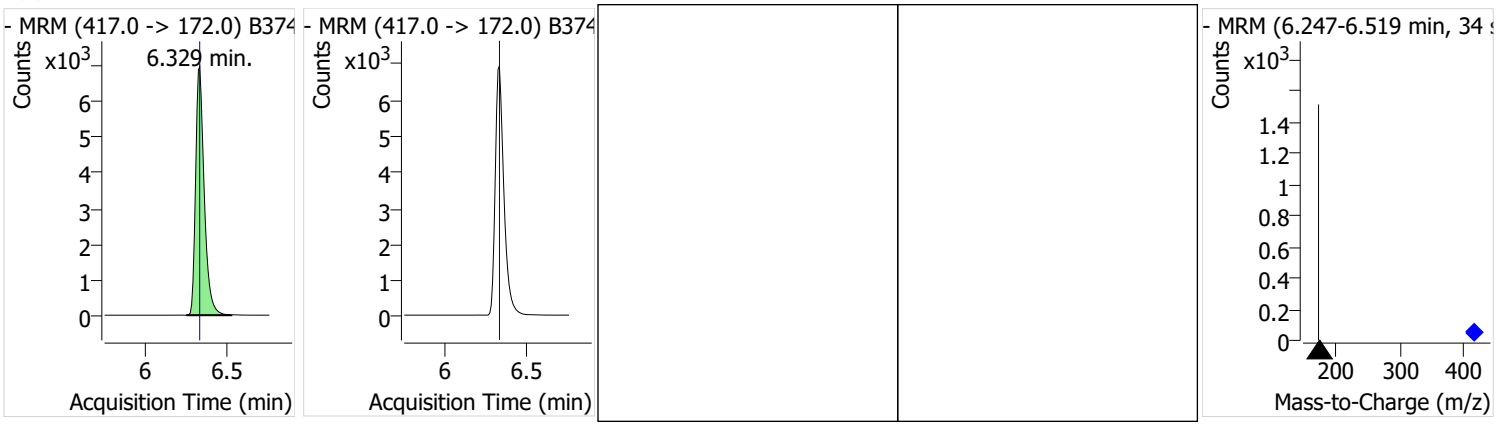

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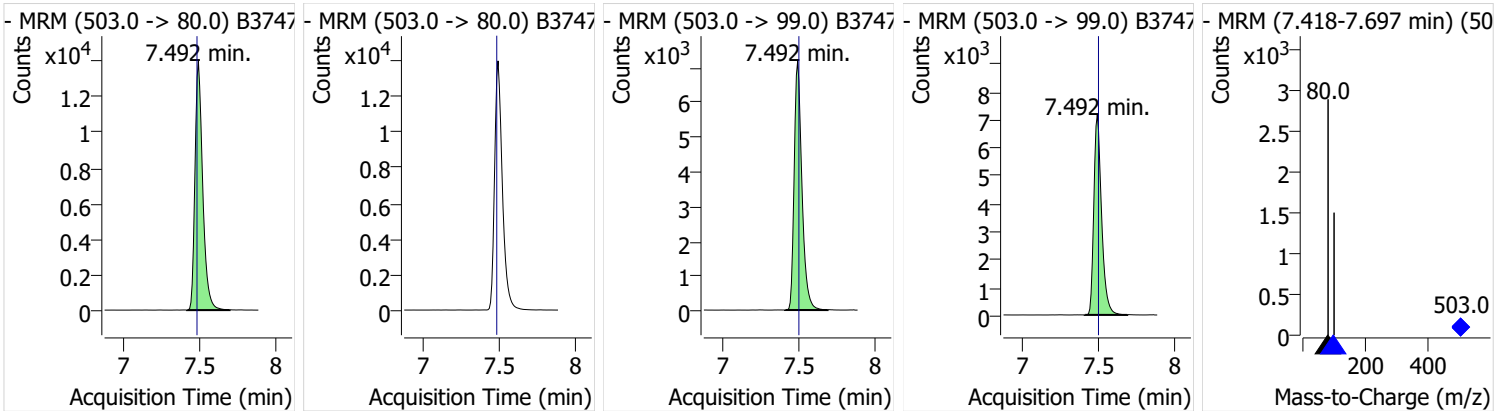
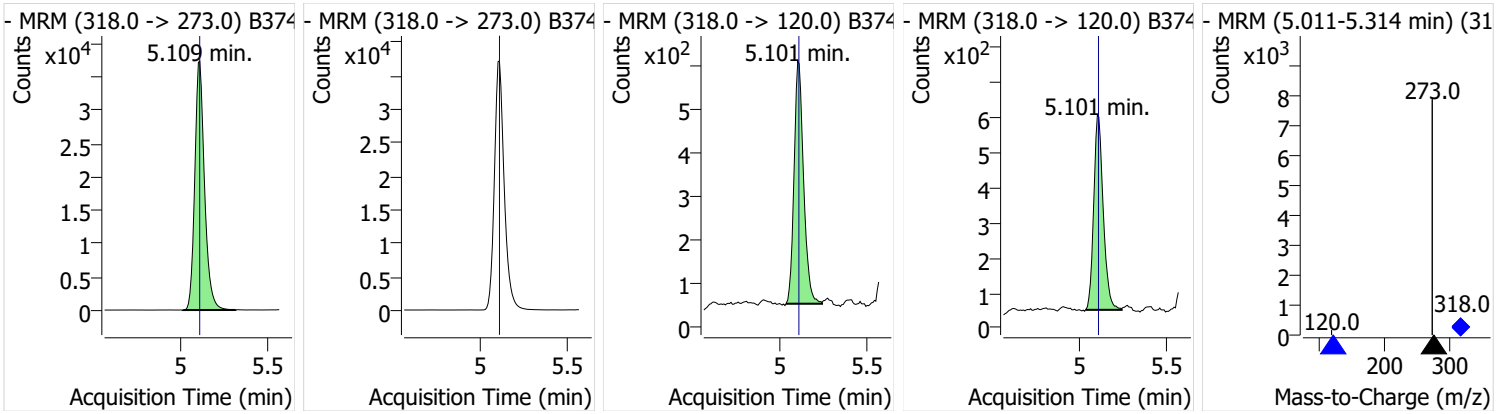


13C5-PFHxA - ISTD



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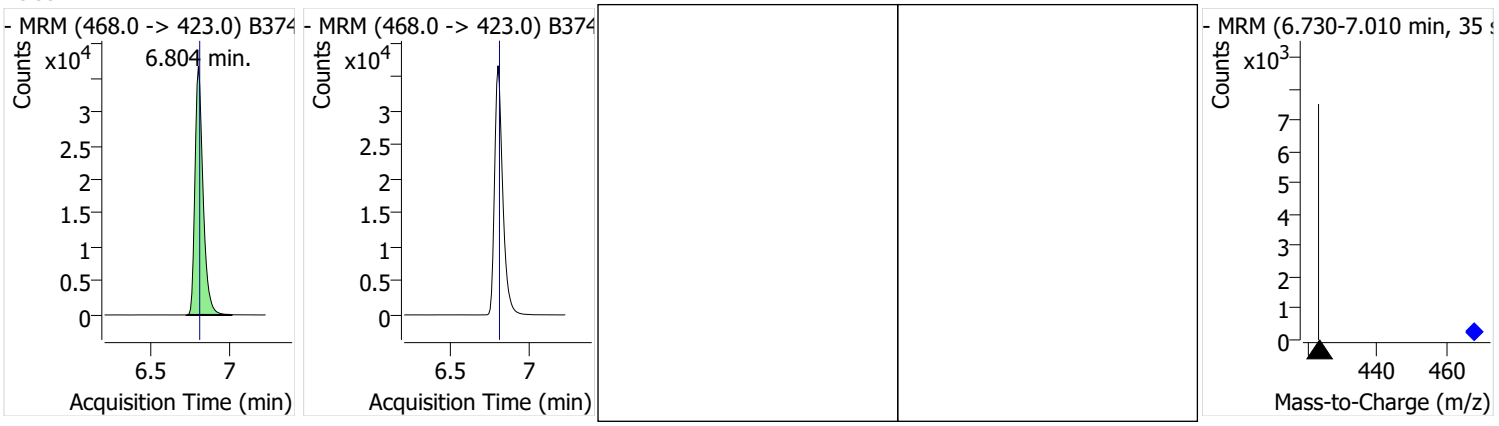
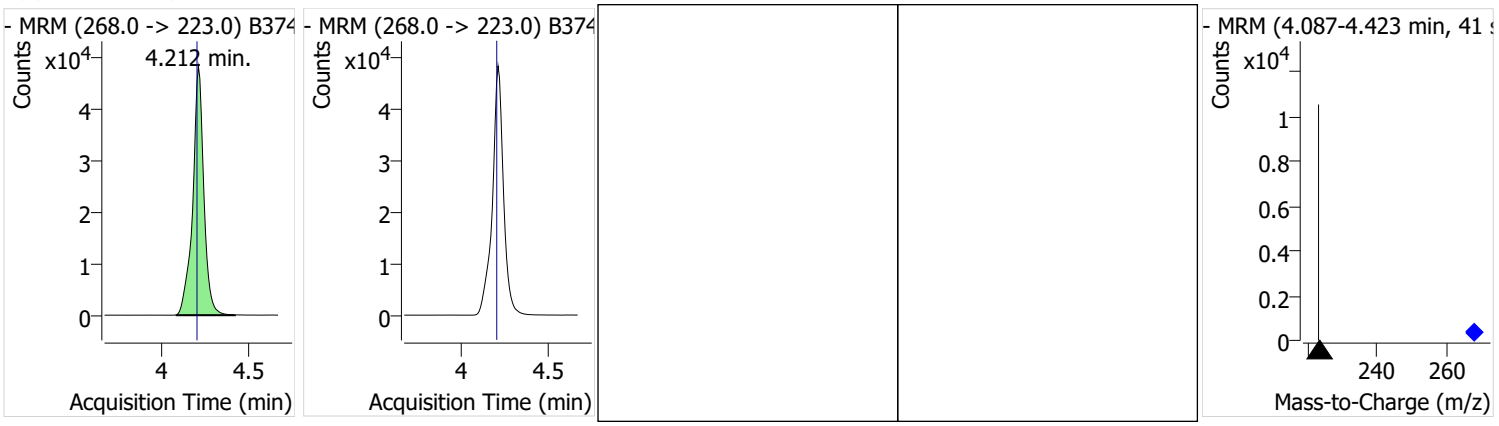
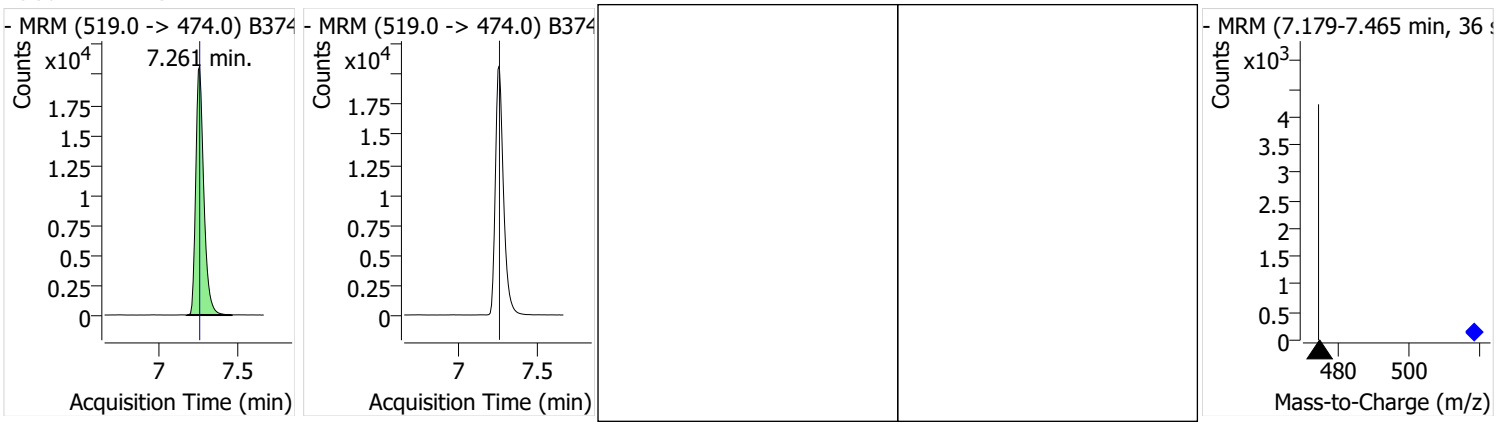


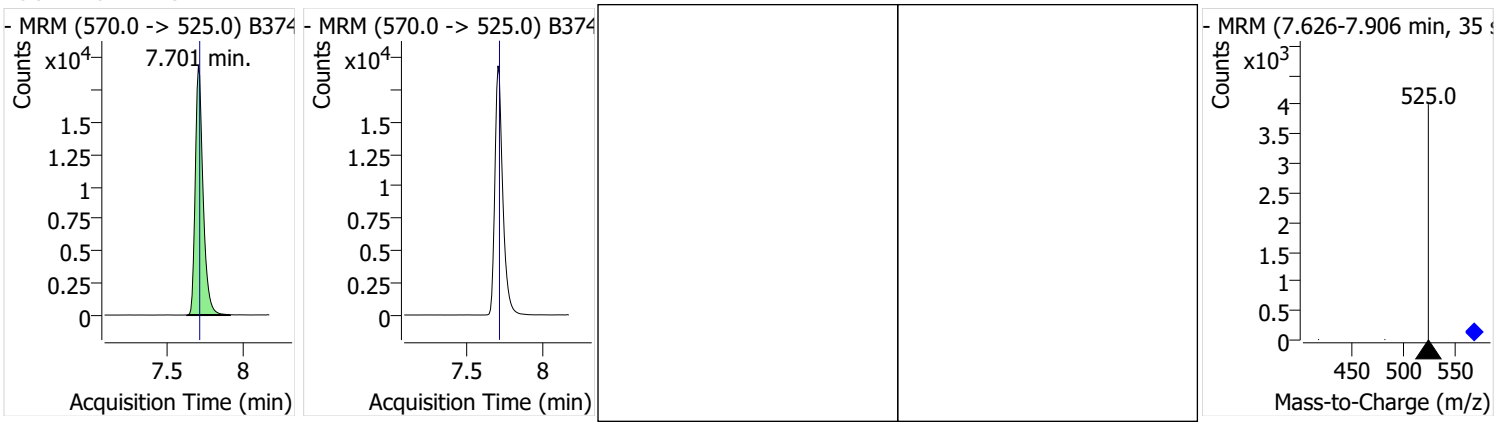
13C5-PFPeA - ISTD



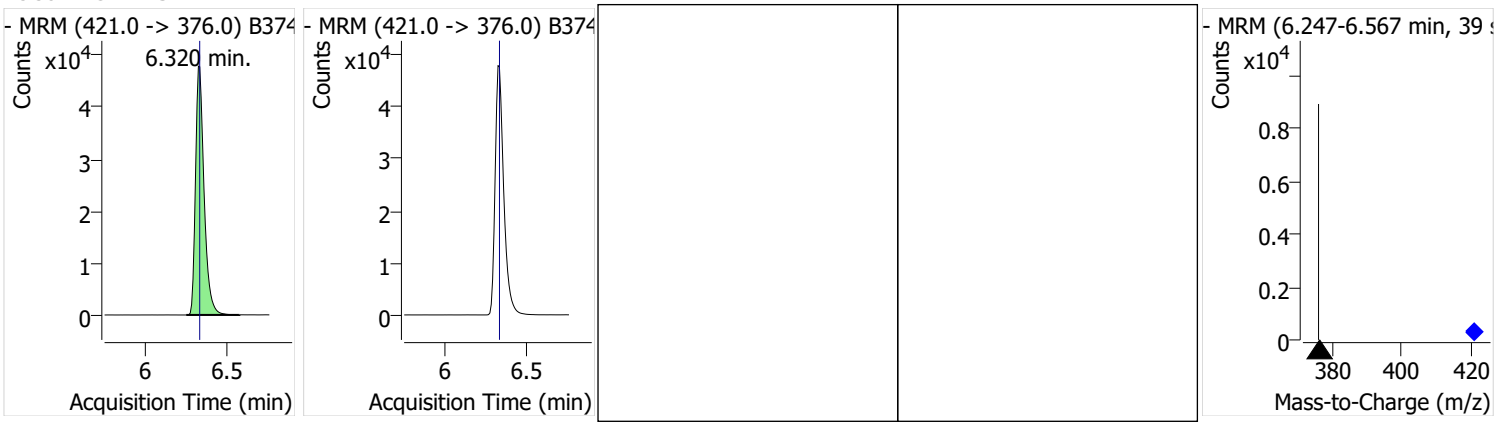
13C6-PFDA - ISTD



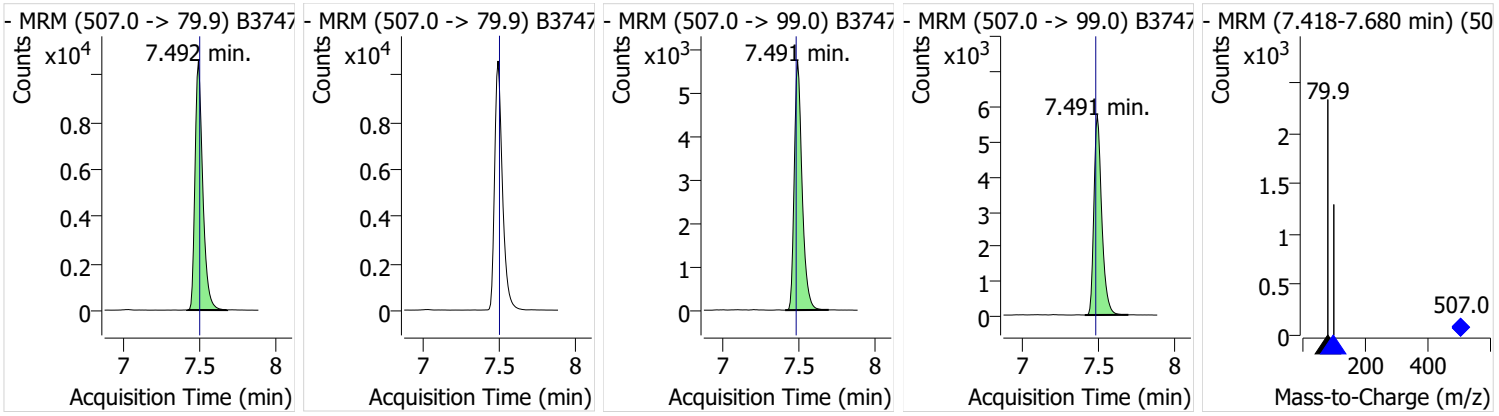
13C7-PFUnA - ISTD



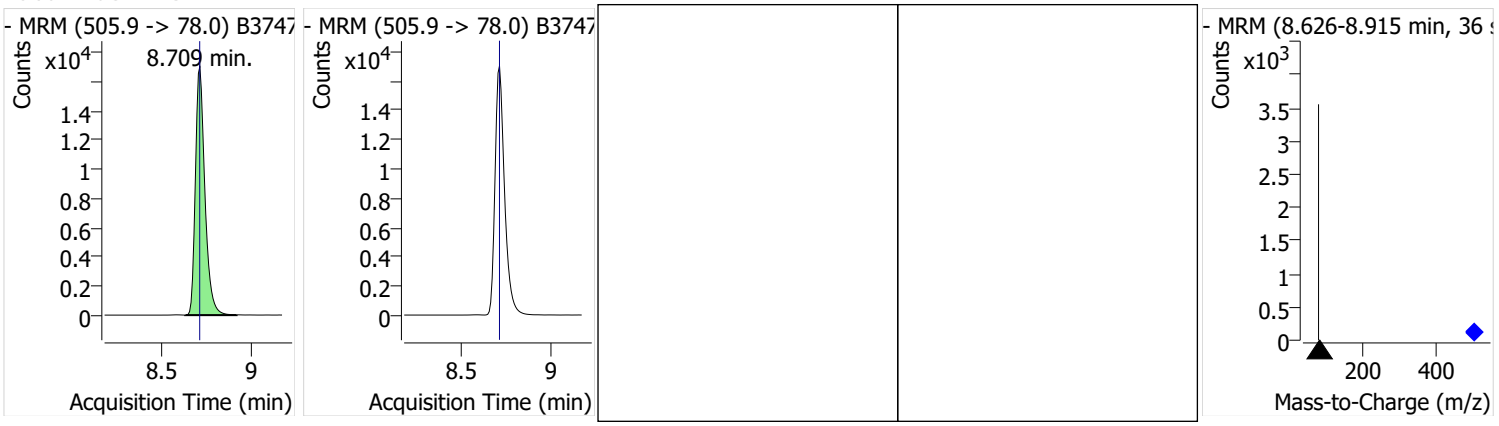
13C8-PFOA - ISTD



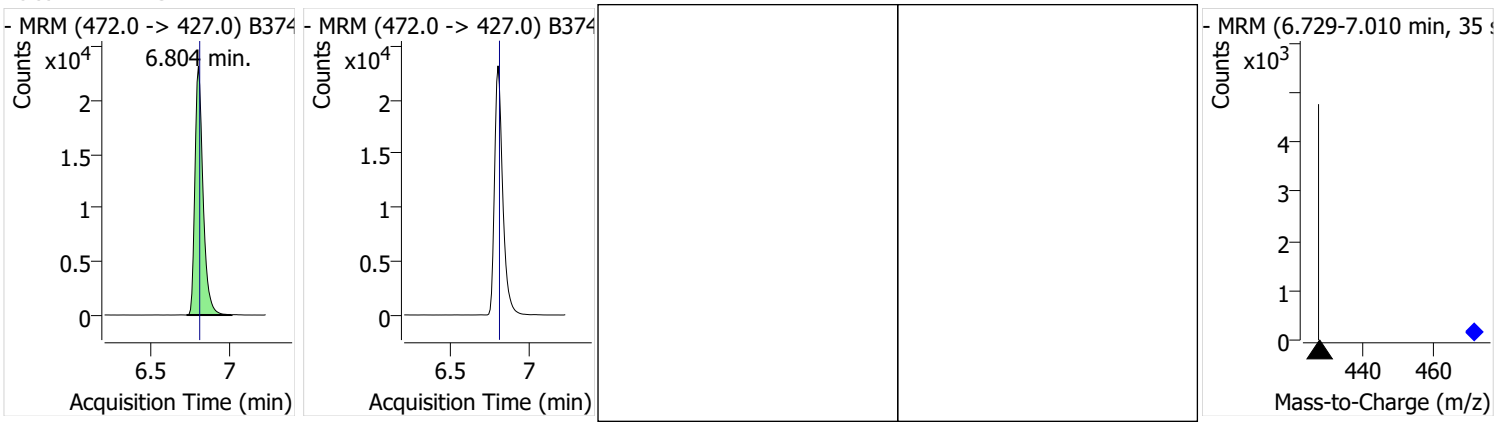
13C8-PFOS - ISTD



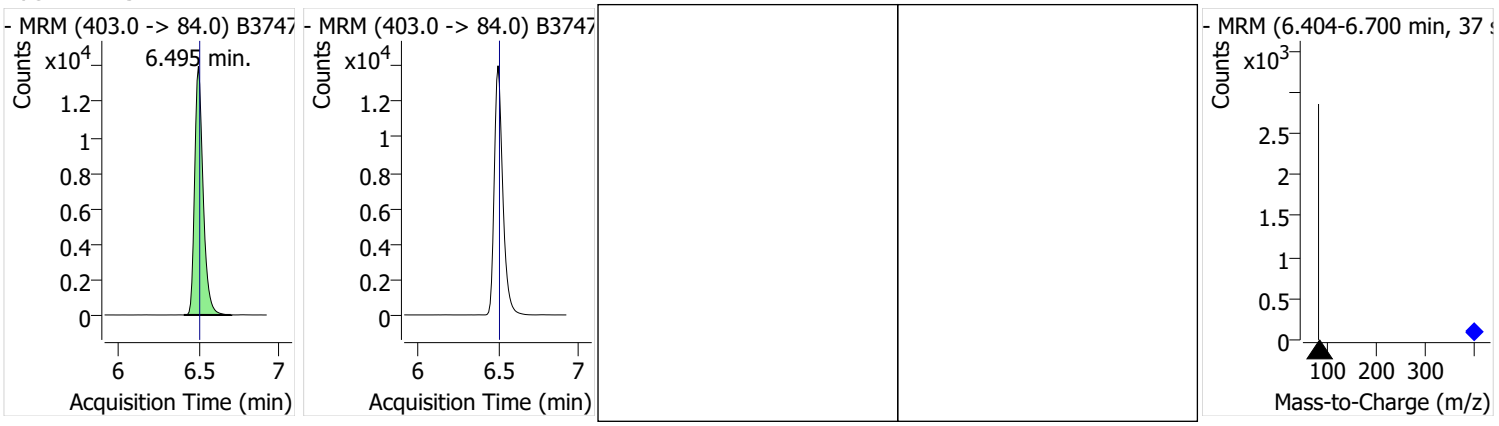
13C8-PFOSA - ISTD



13C9-PFNA - ISTD



18O2-PFHxS



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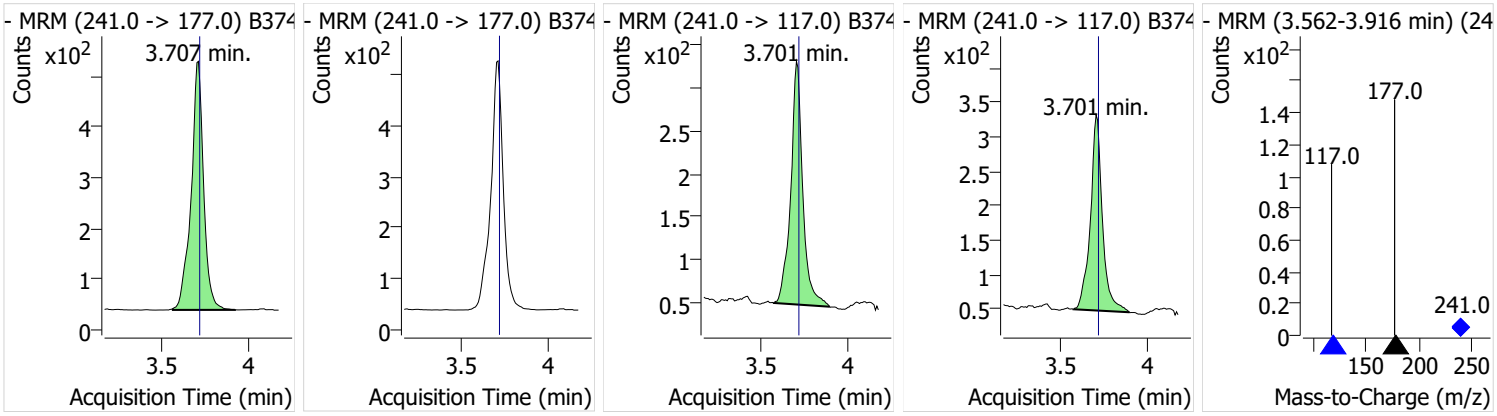
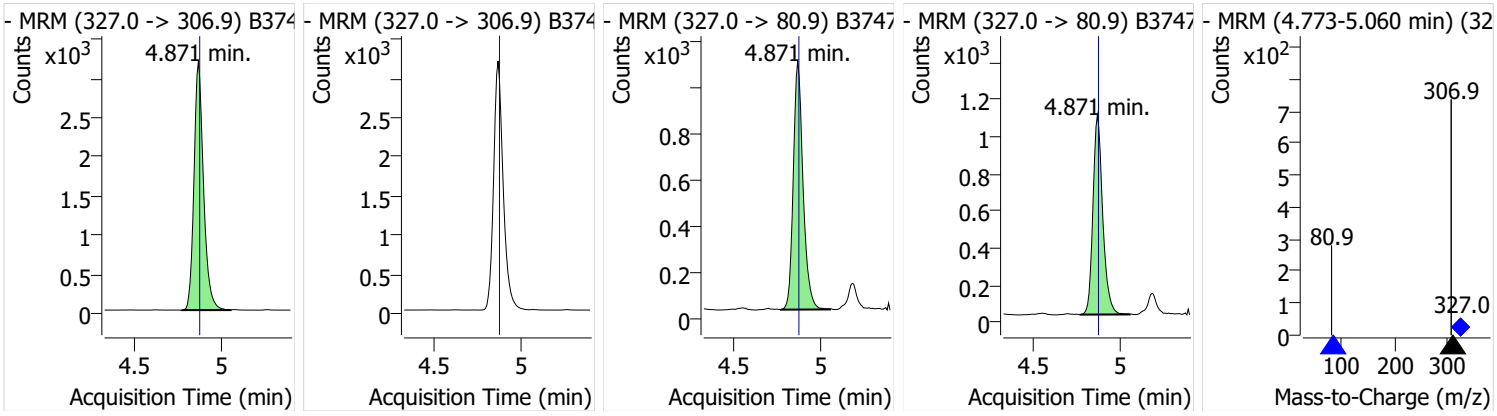


4:2FTS



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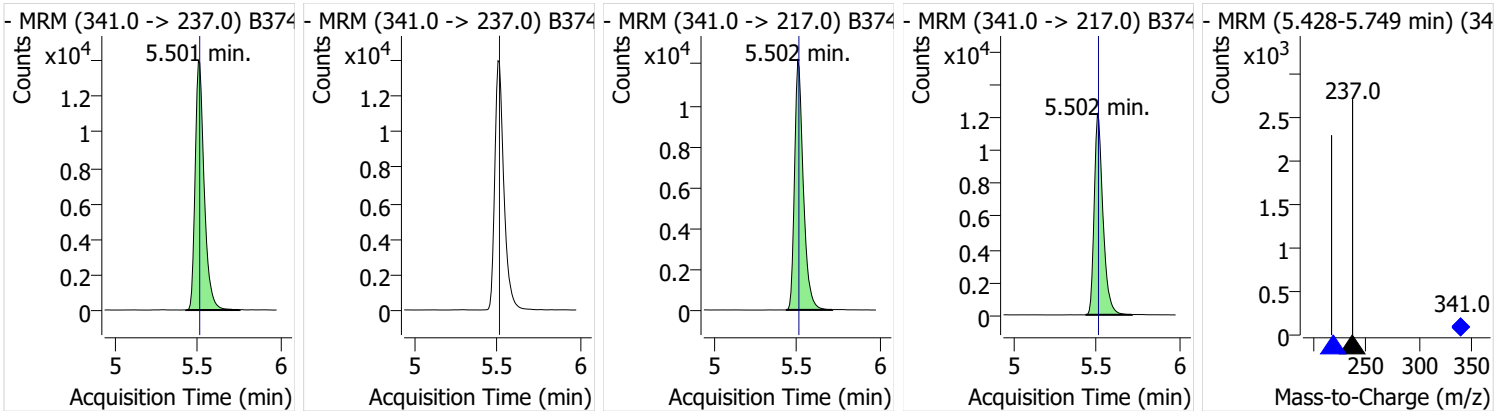

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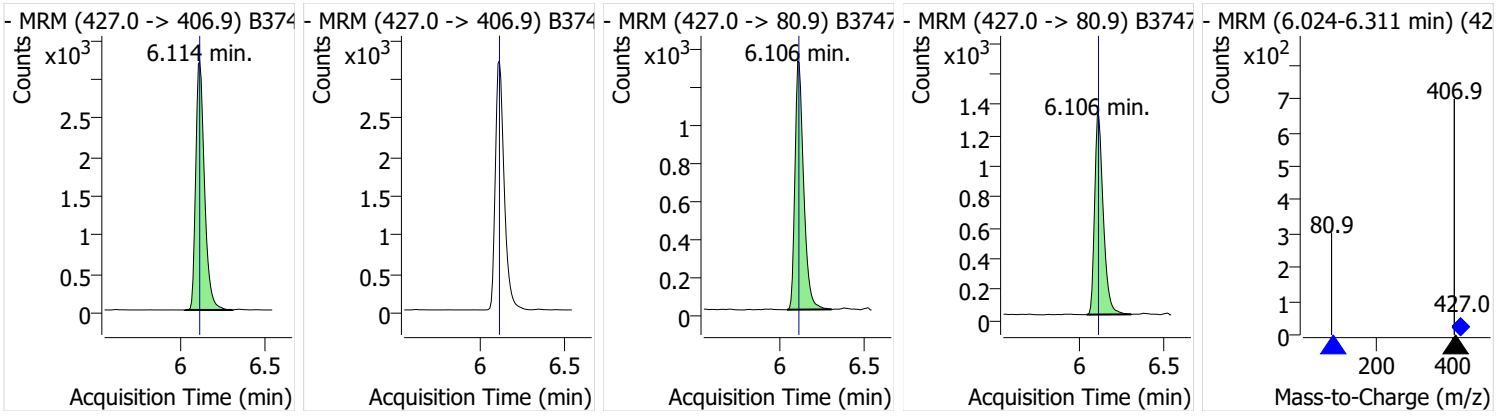

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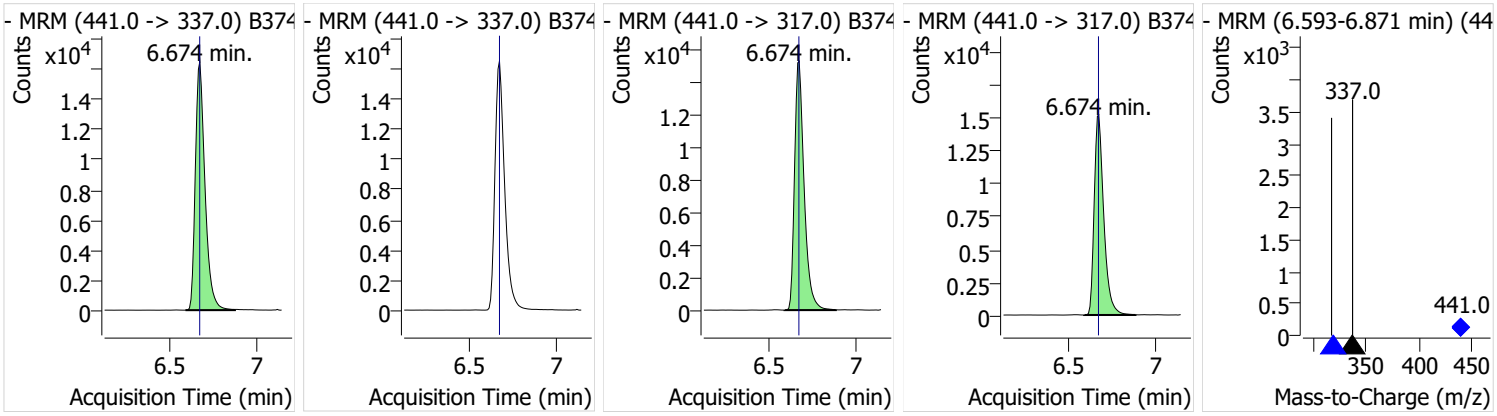
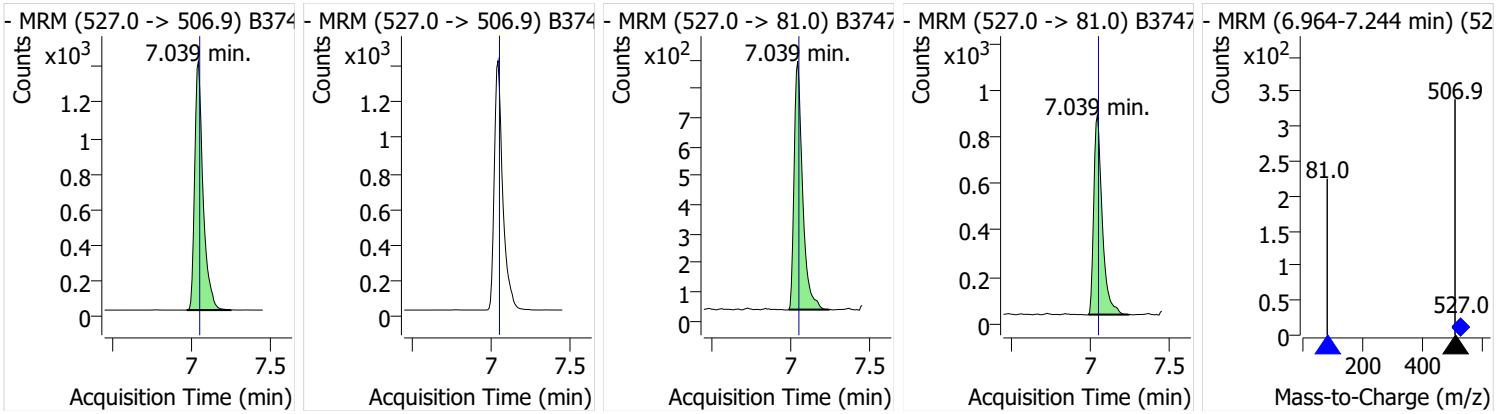
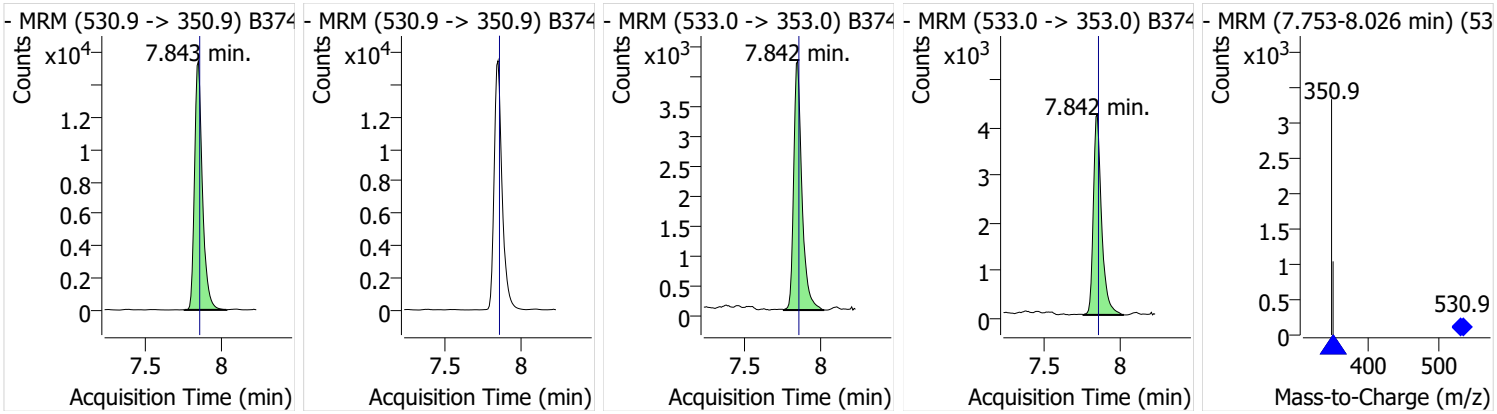


8:2FTS



9Cl-PF3ONS



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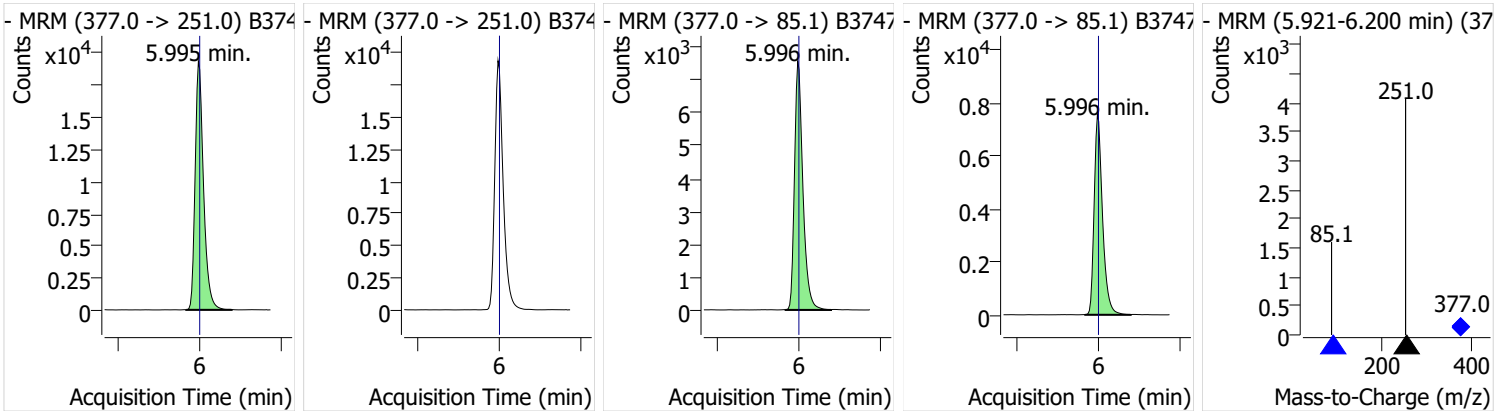
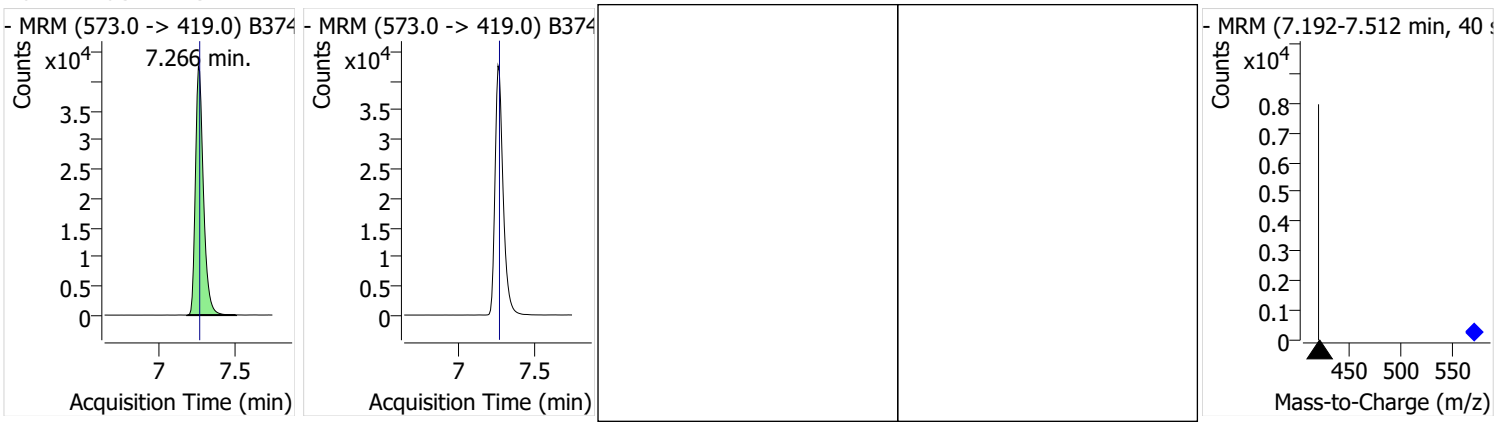


D3-NMeFOSA - ISTD

D3-NMeFOSAA - ISTD



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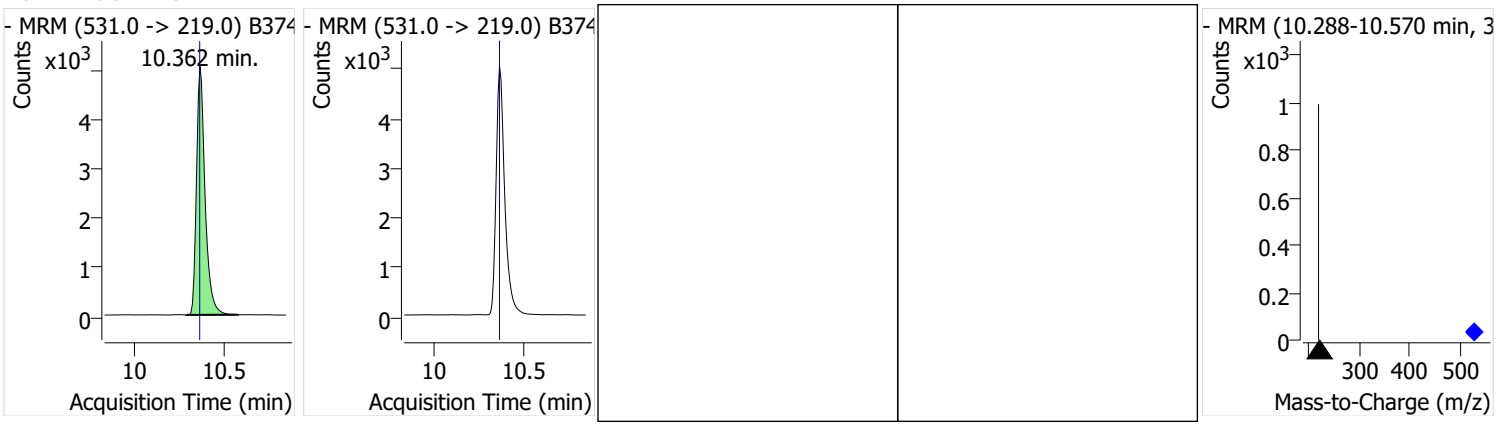
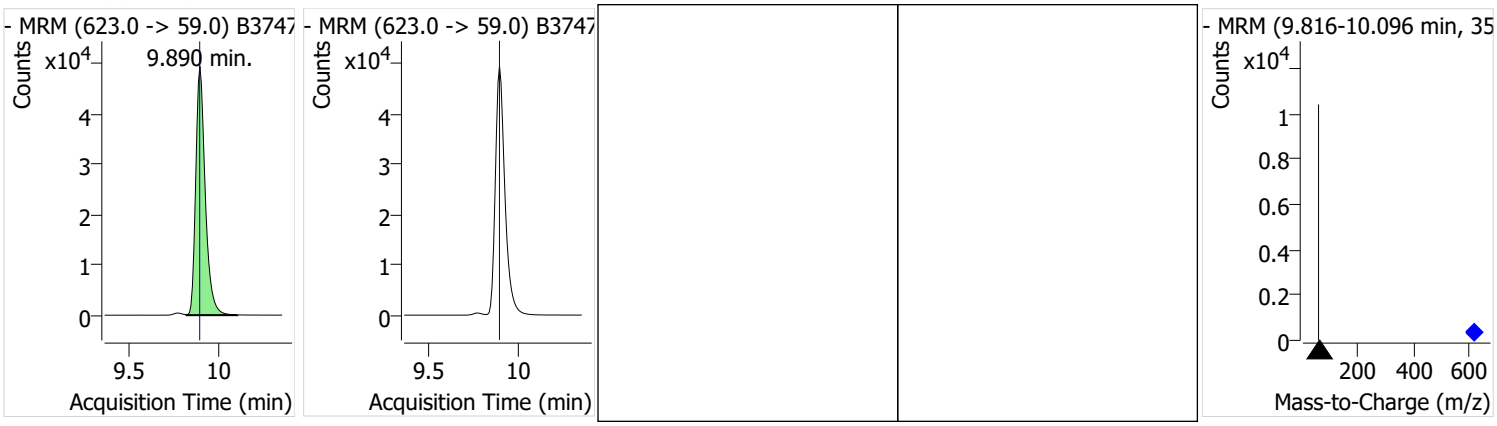
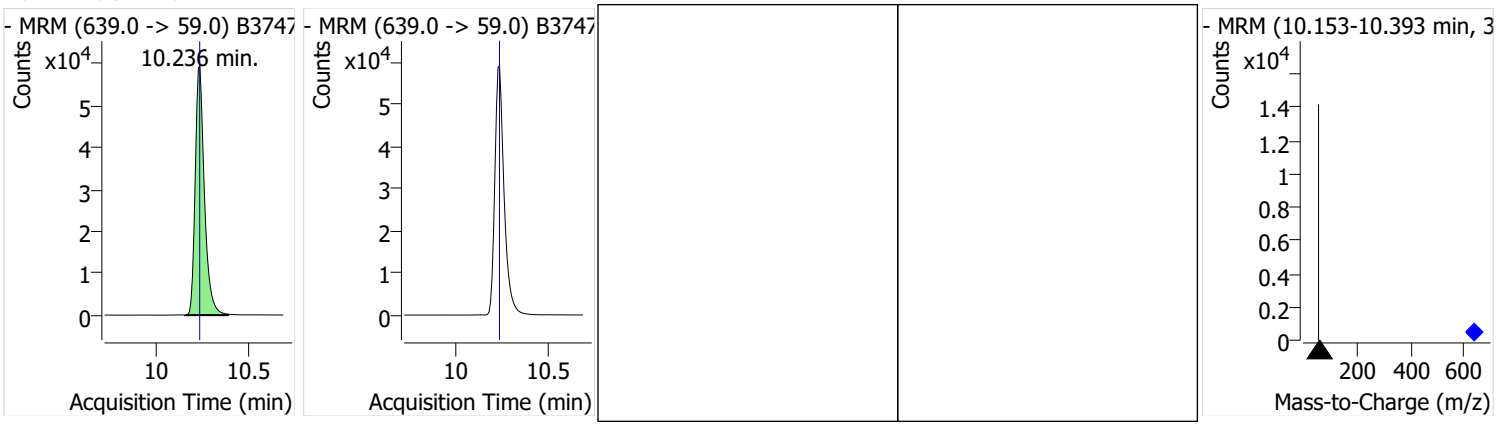


D5-NEtFOSAA - ISTD

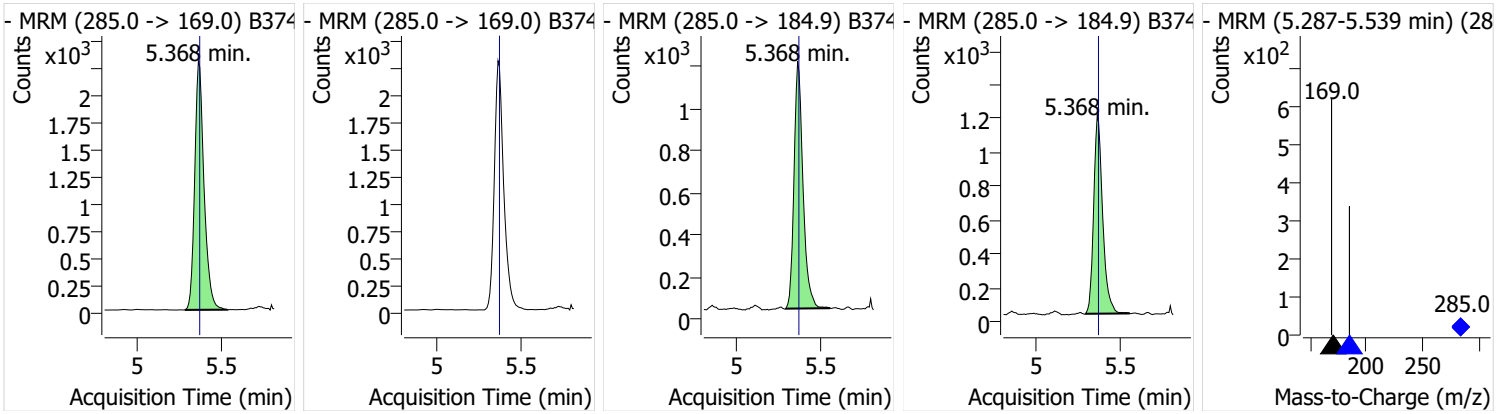
D7-NMeFOSE - ISTD



D9-NEtFOSE - ISTD



HFPO-DA



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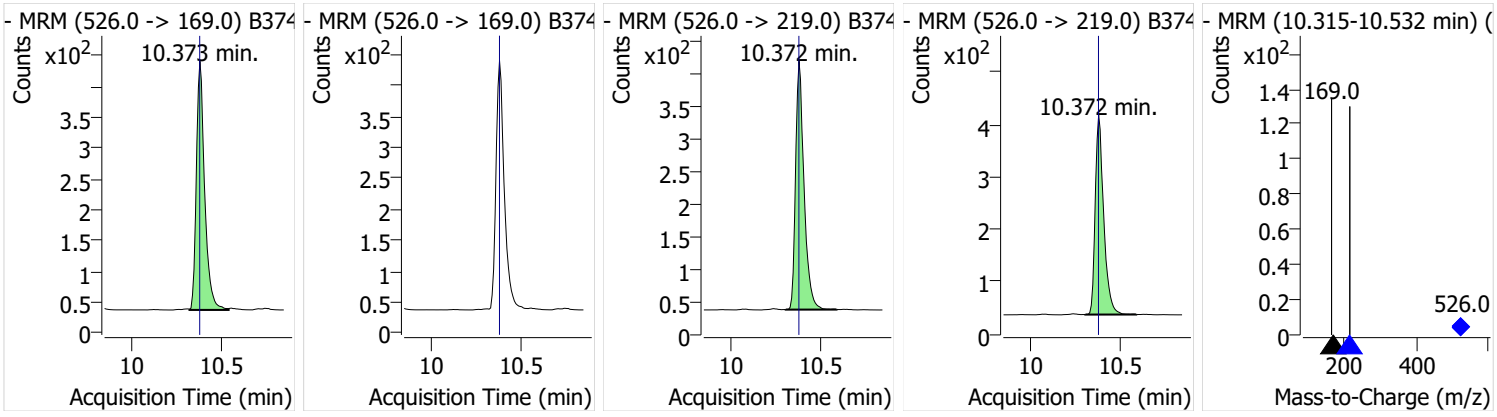

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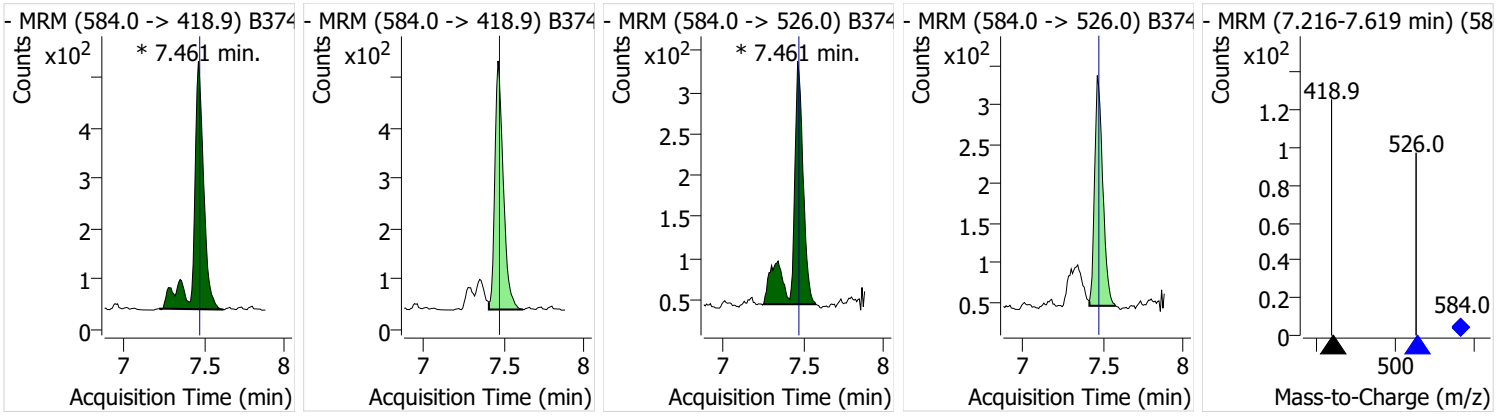

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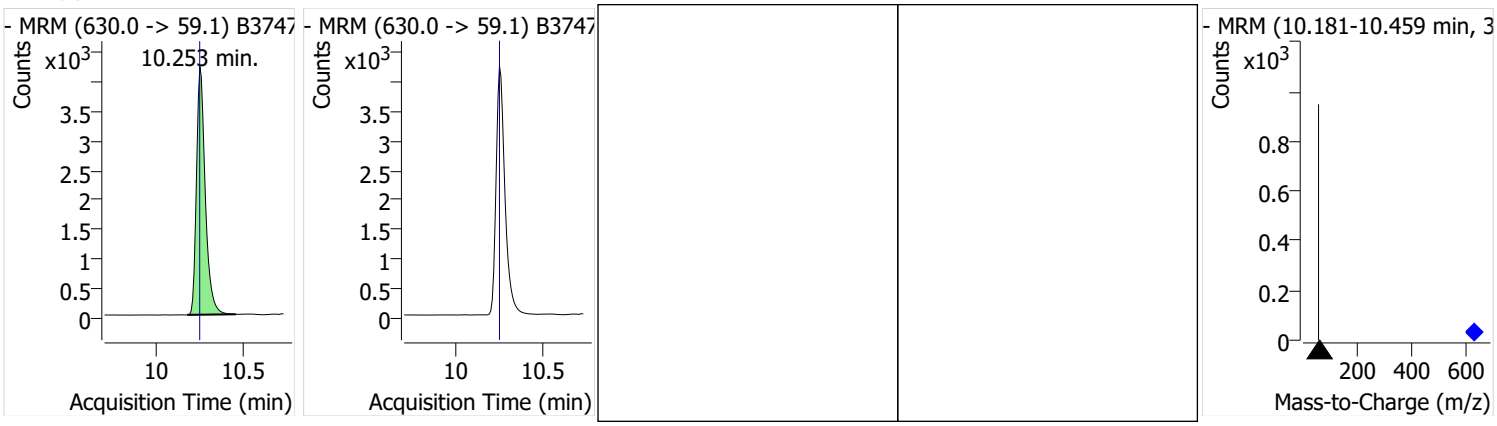
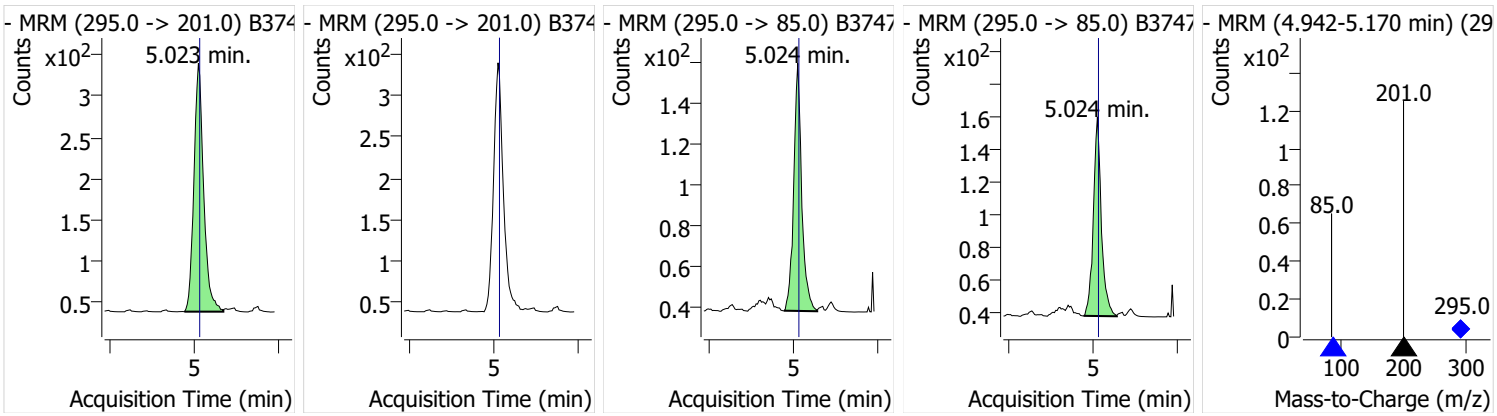


NFDHA



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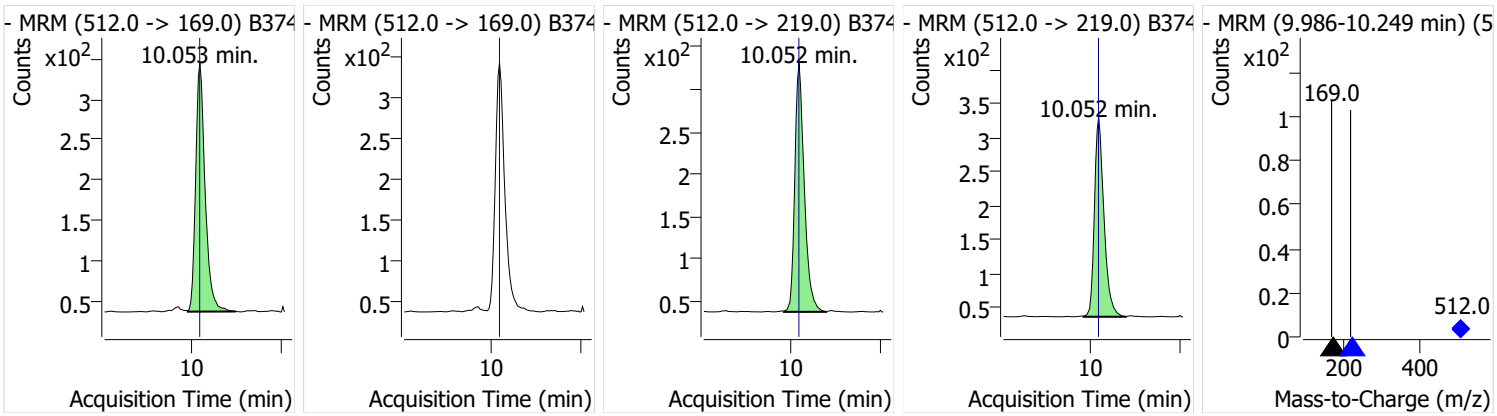

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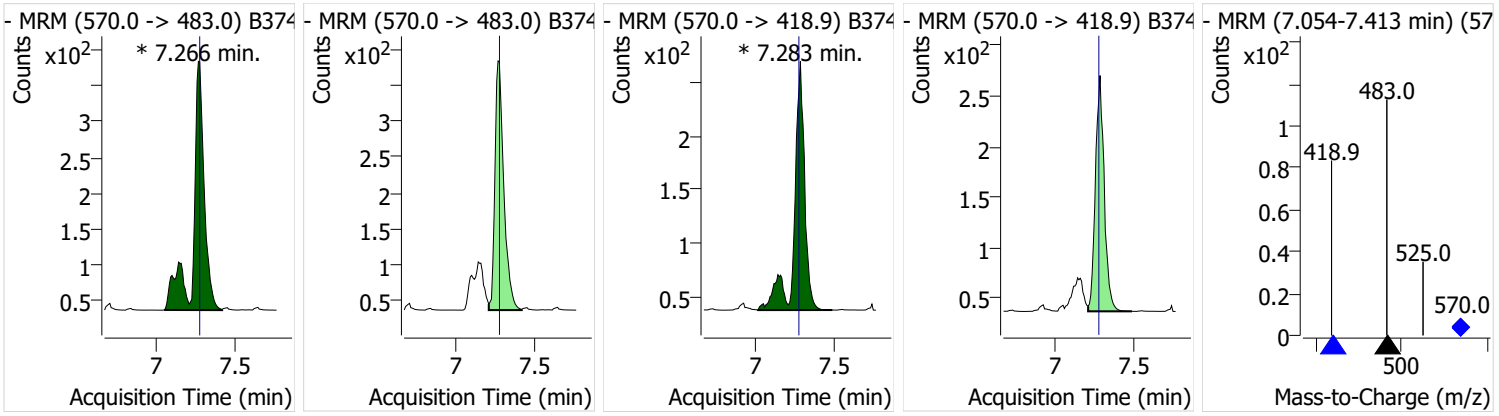
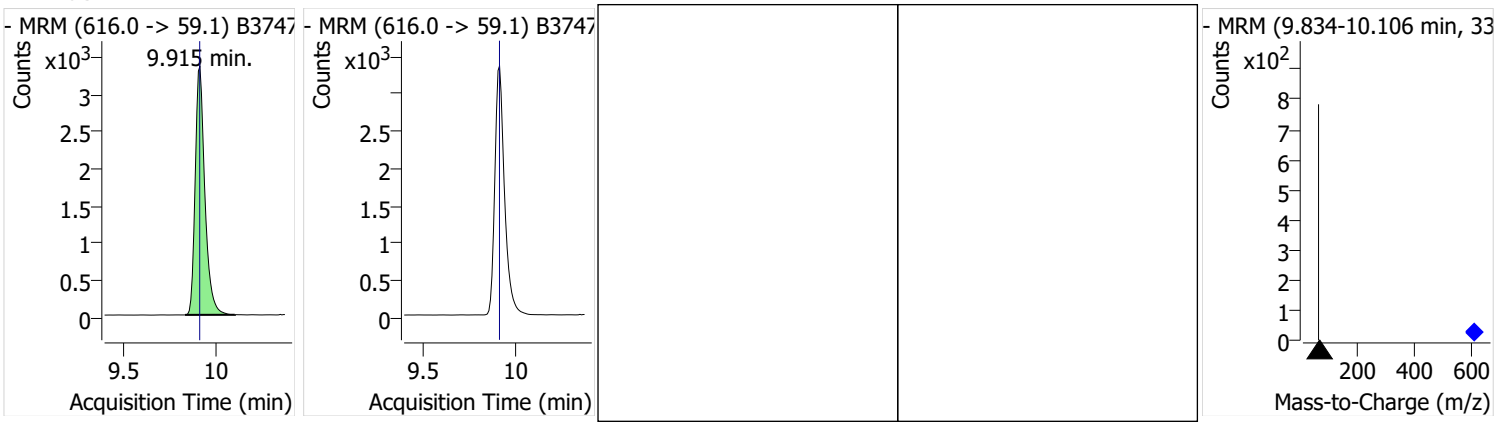


NMeFOSE



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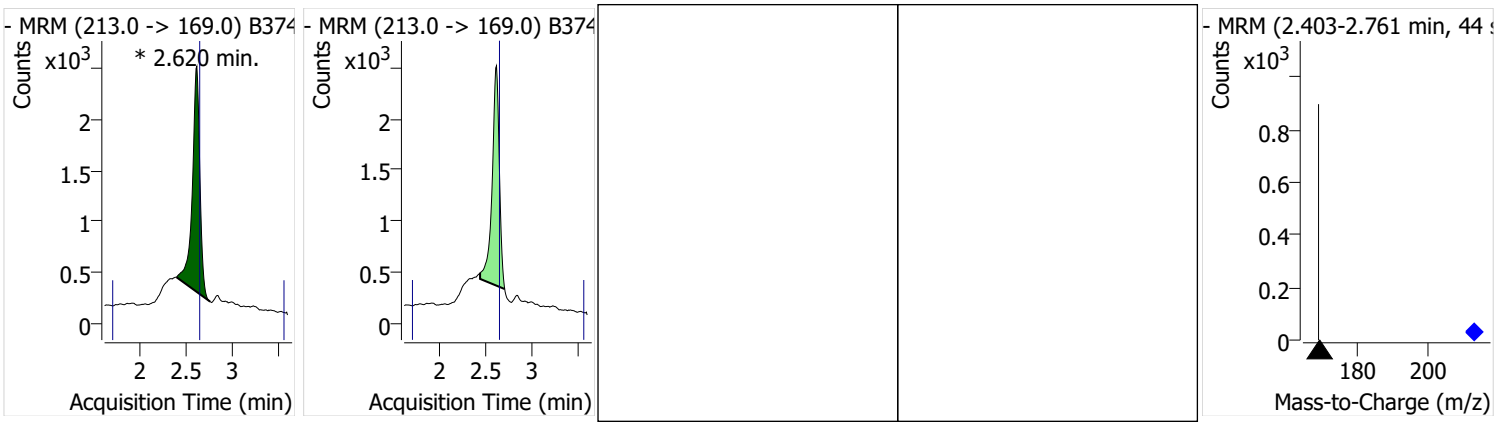
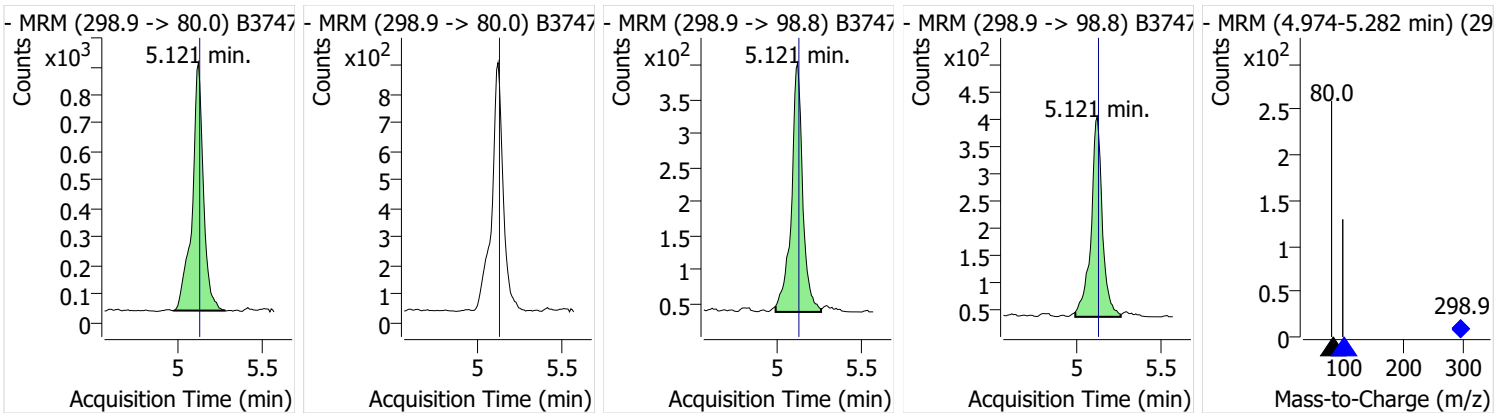
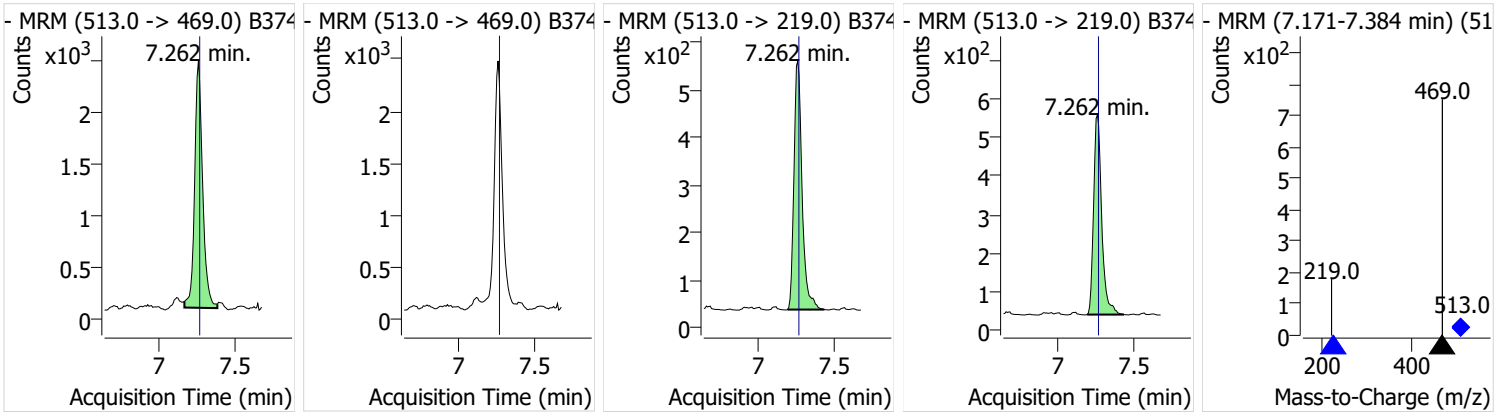


PFBS



PFDA



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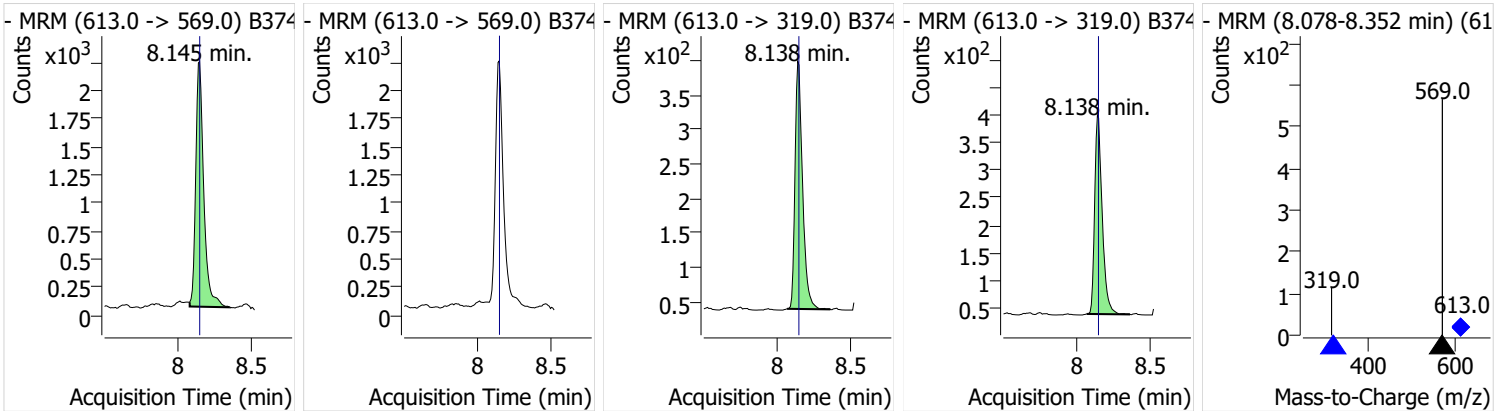

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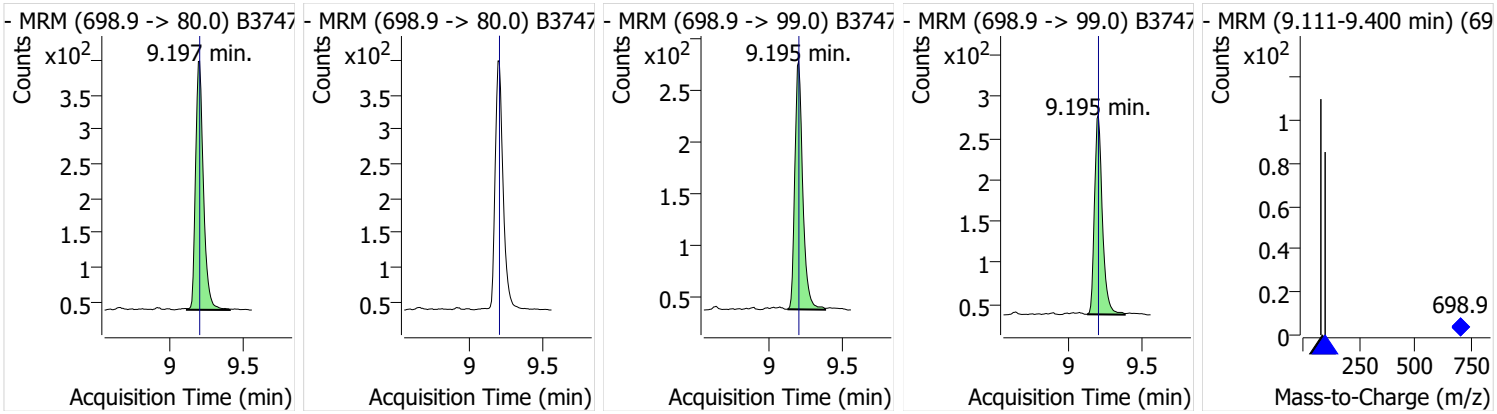

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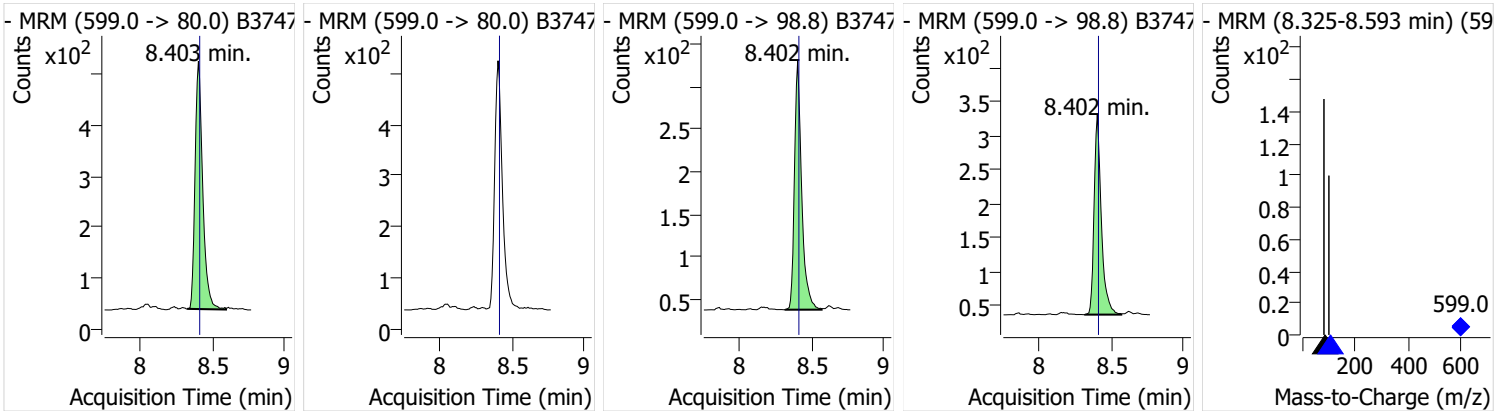

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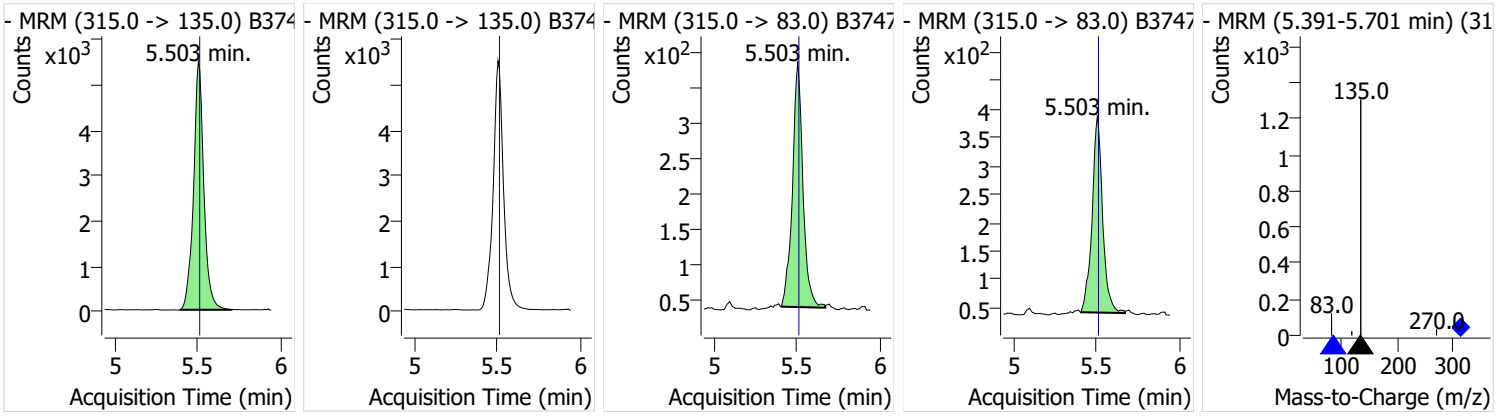

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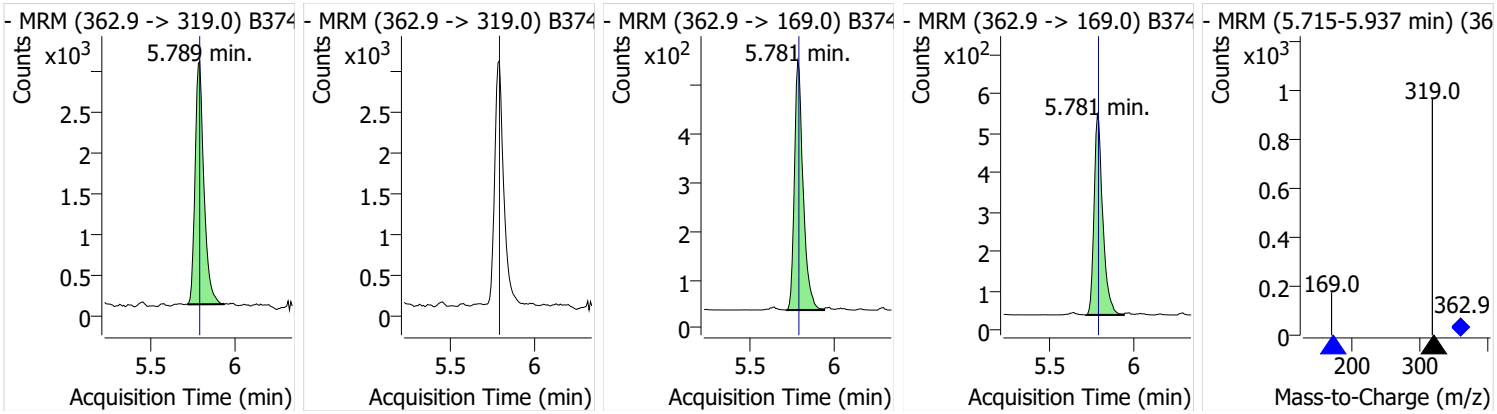

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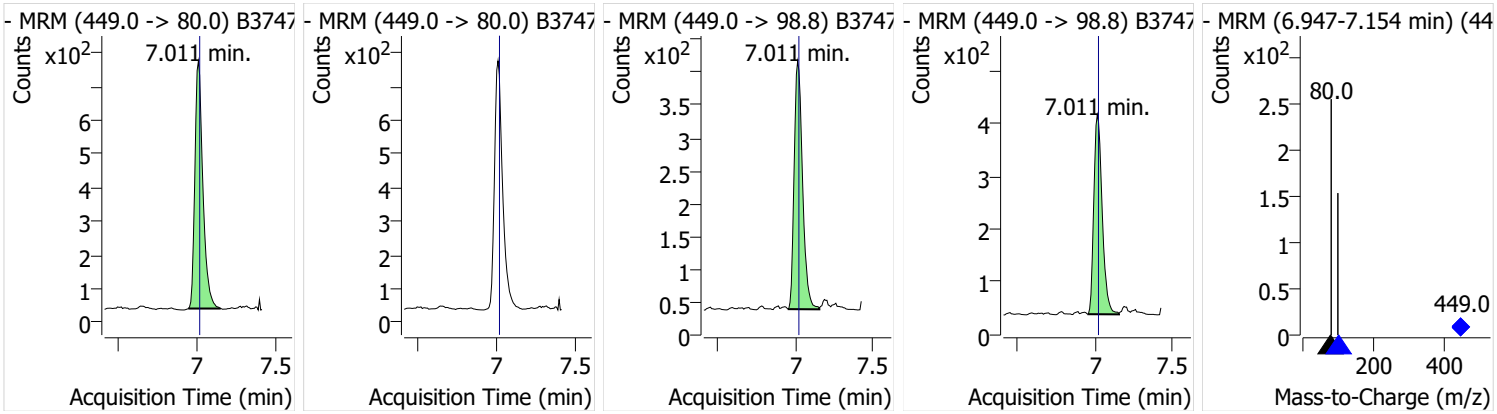

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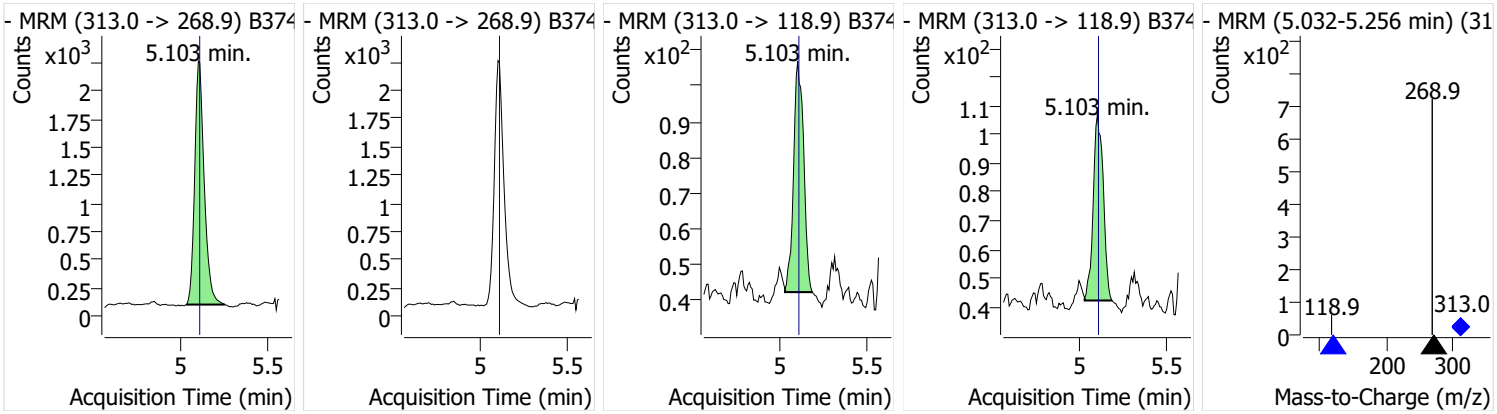

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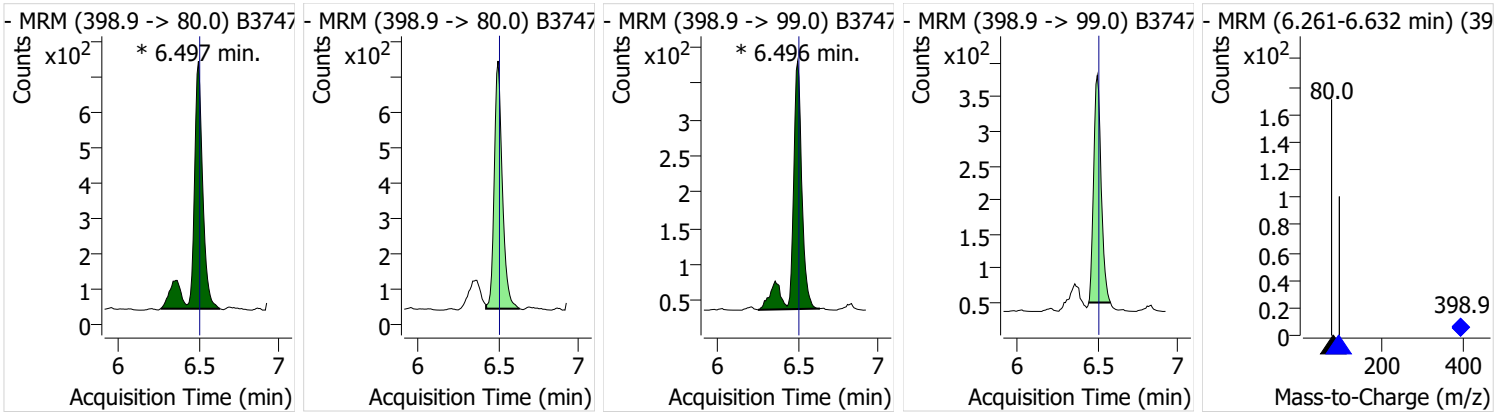

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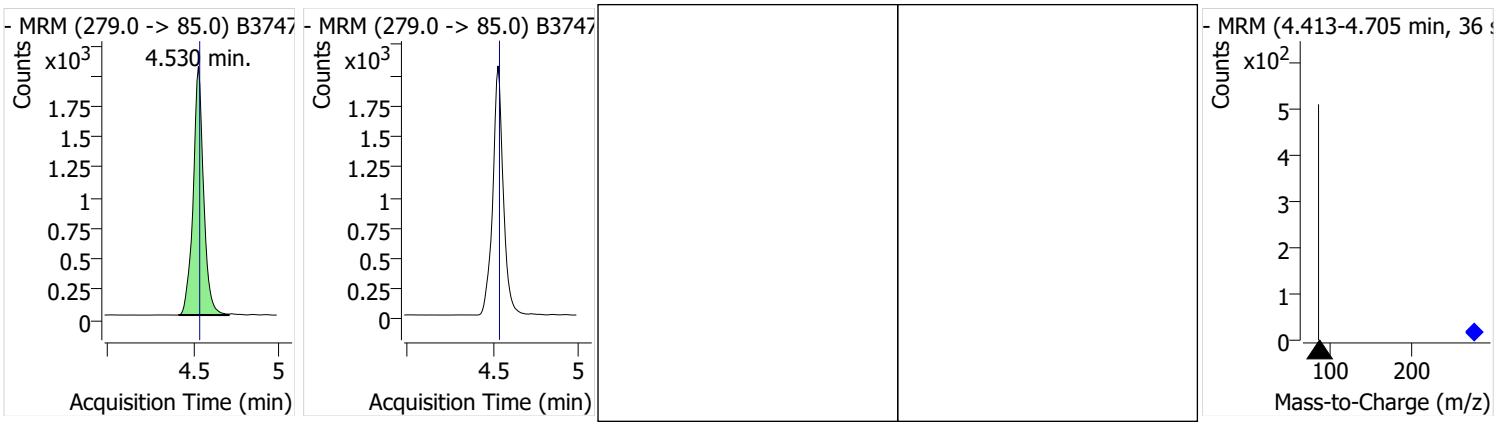

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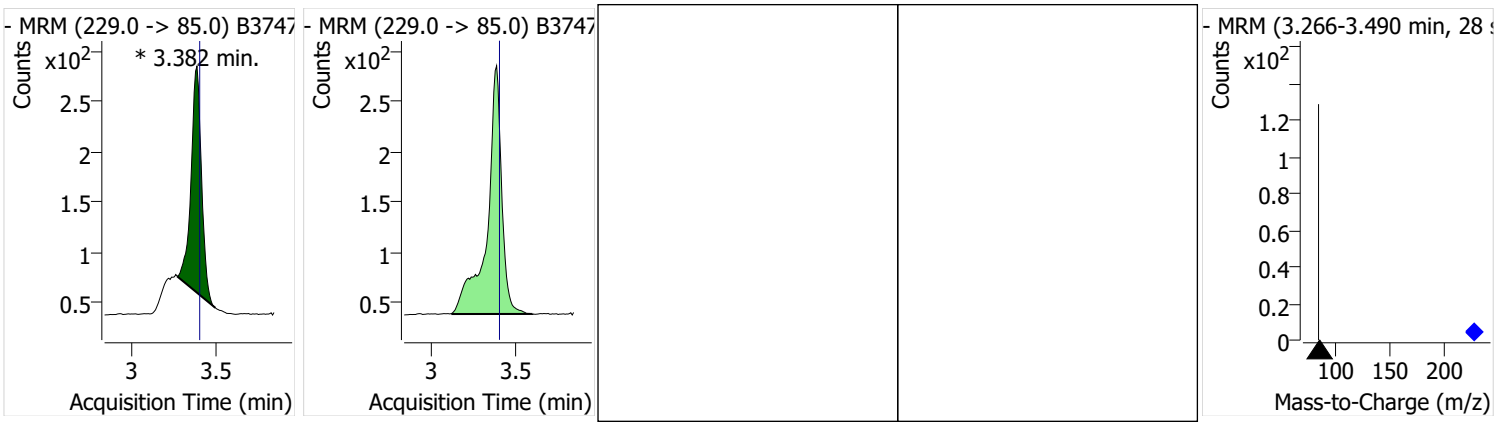

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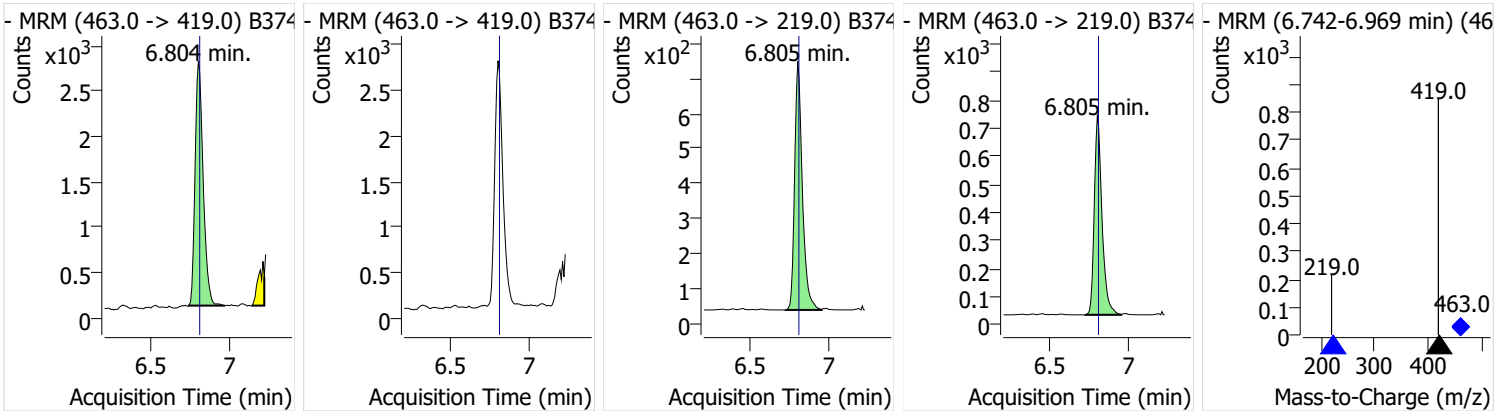

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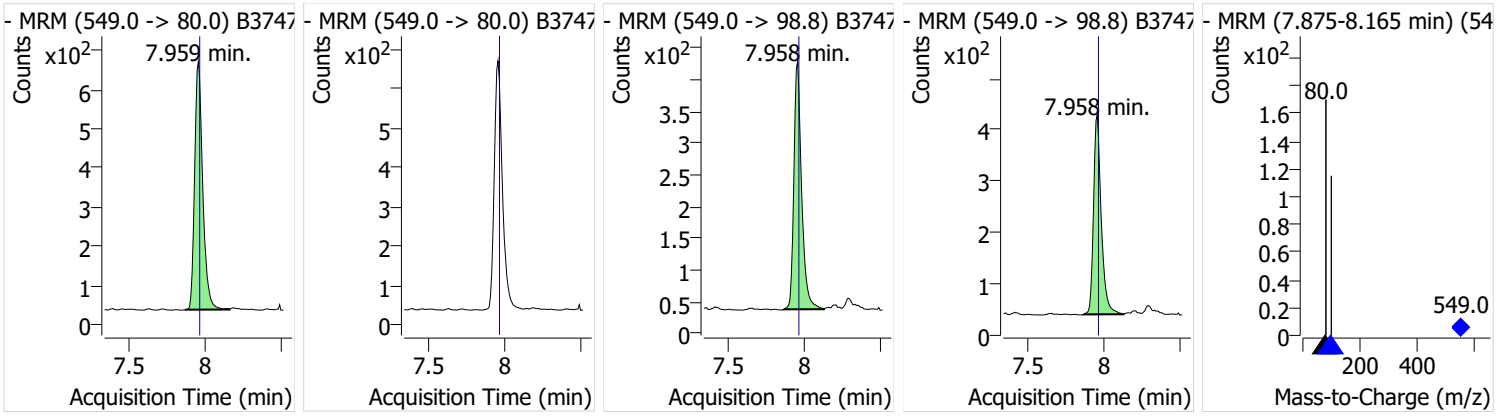

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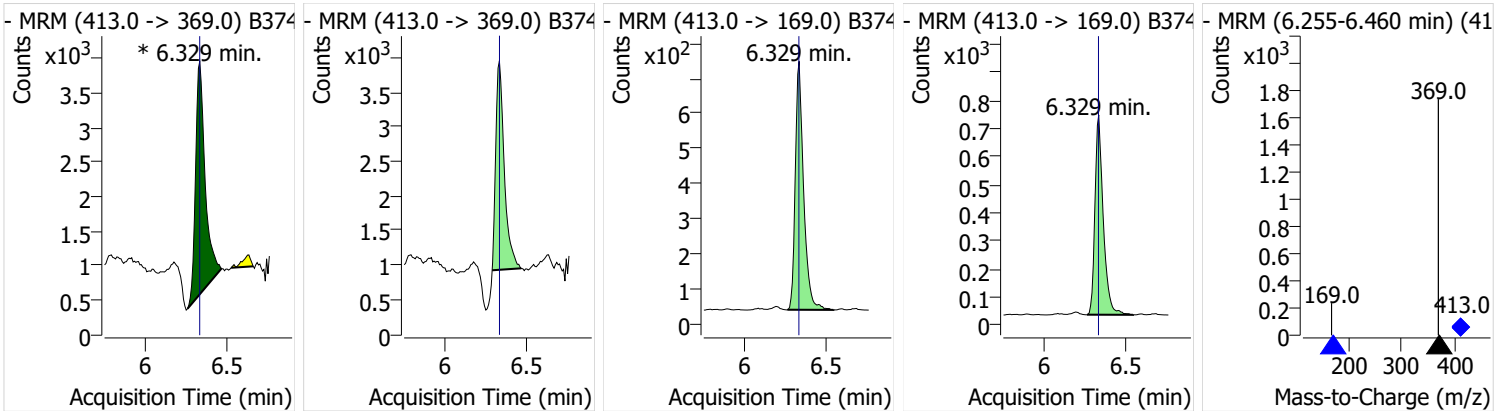

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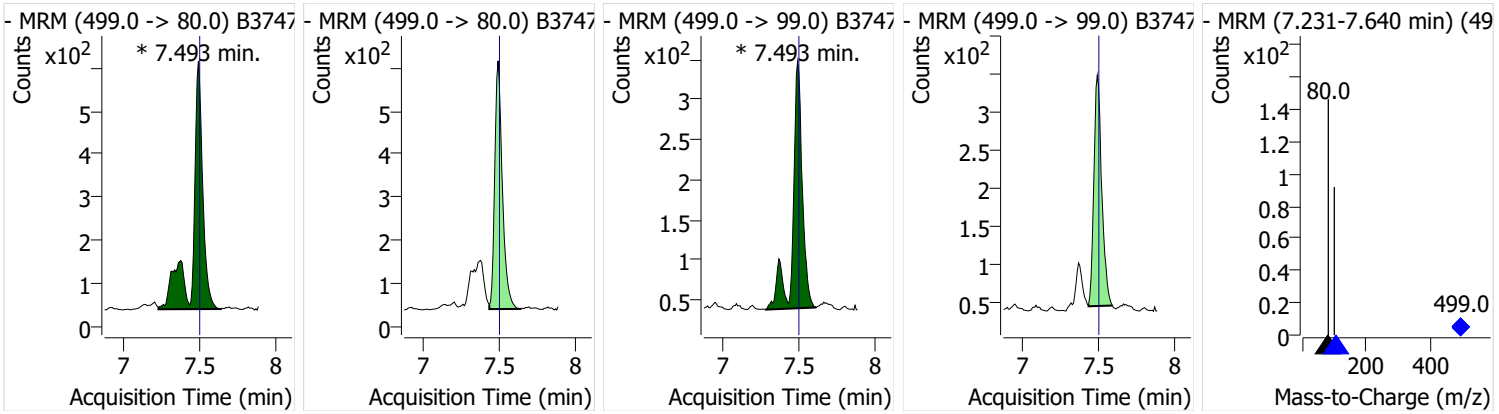

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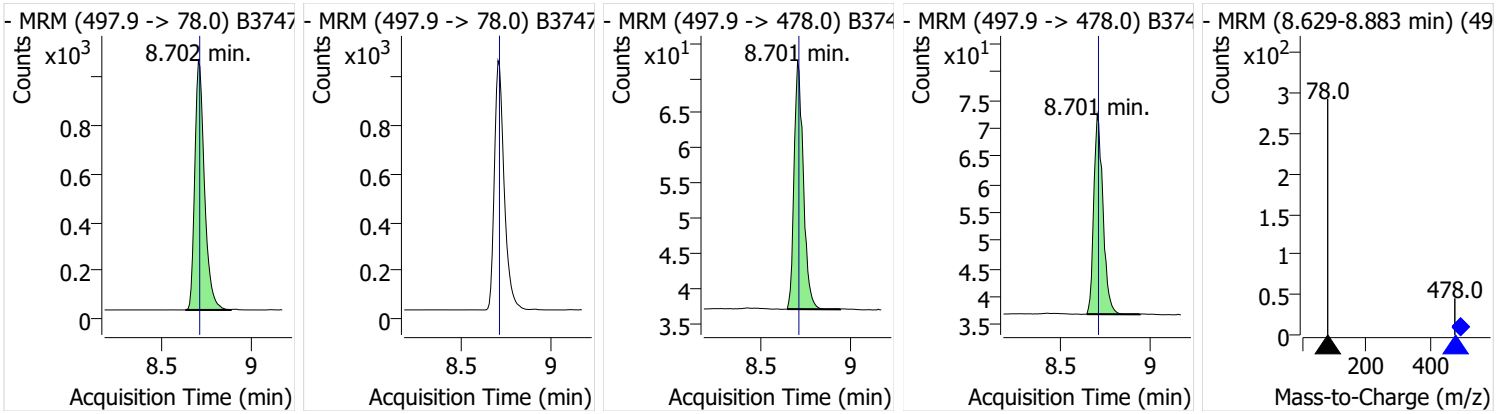

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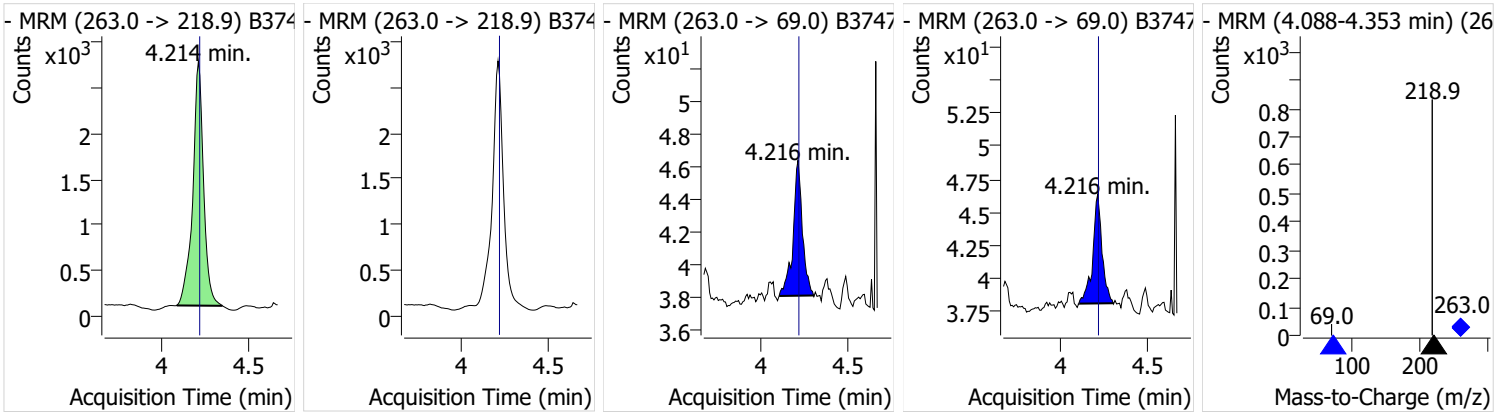

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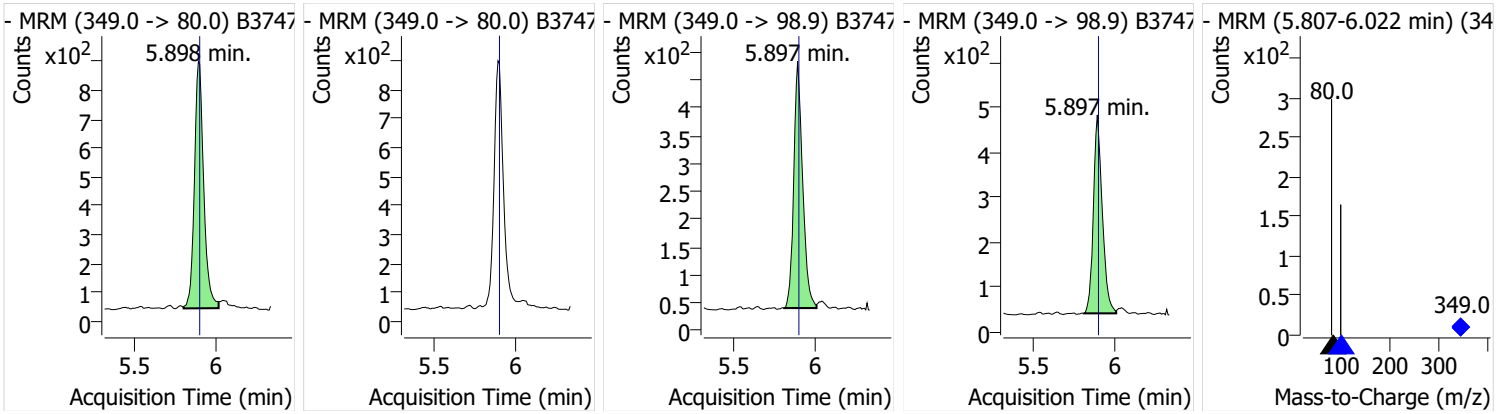

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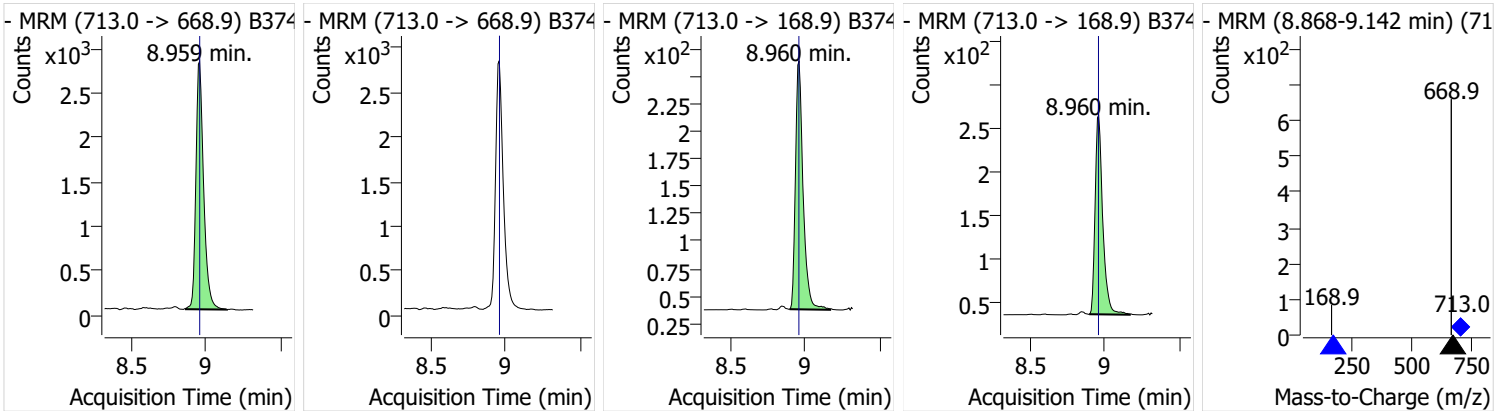

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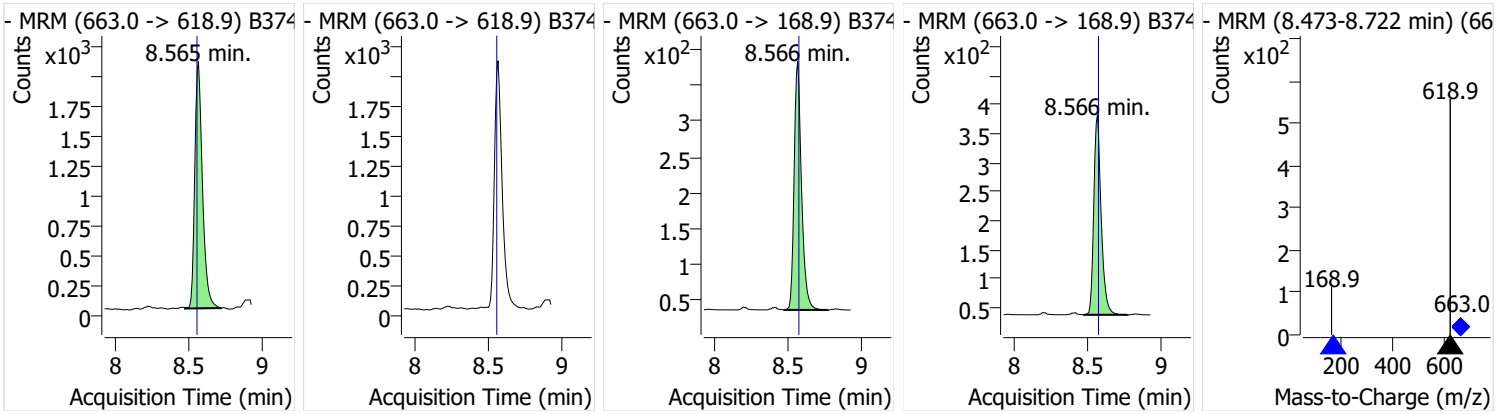

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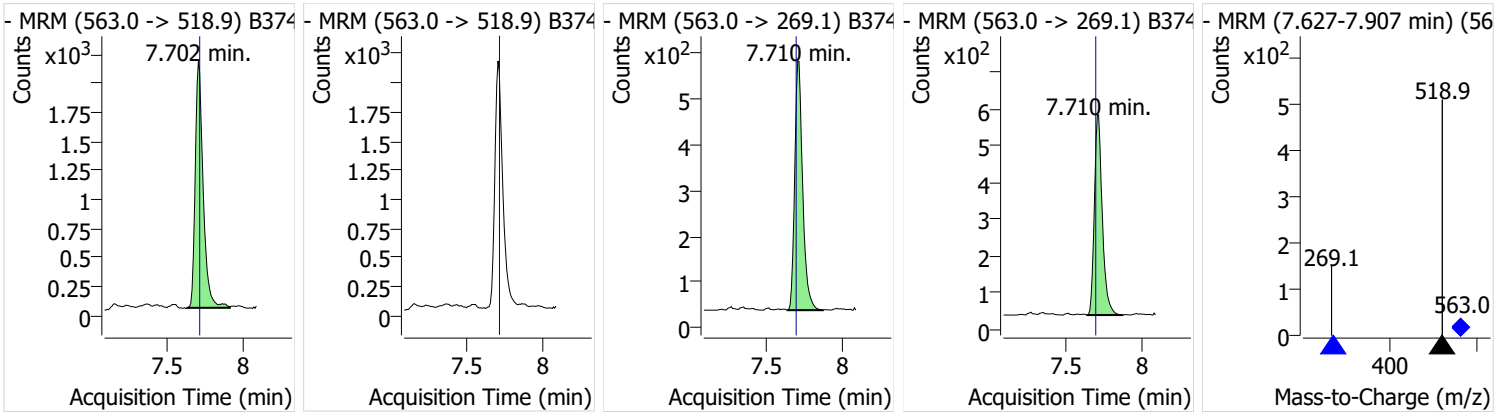

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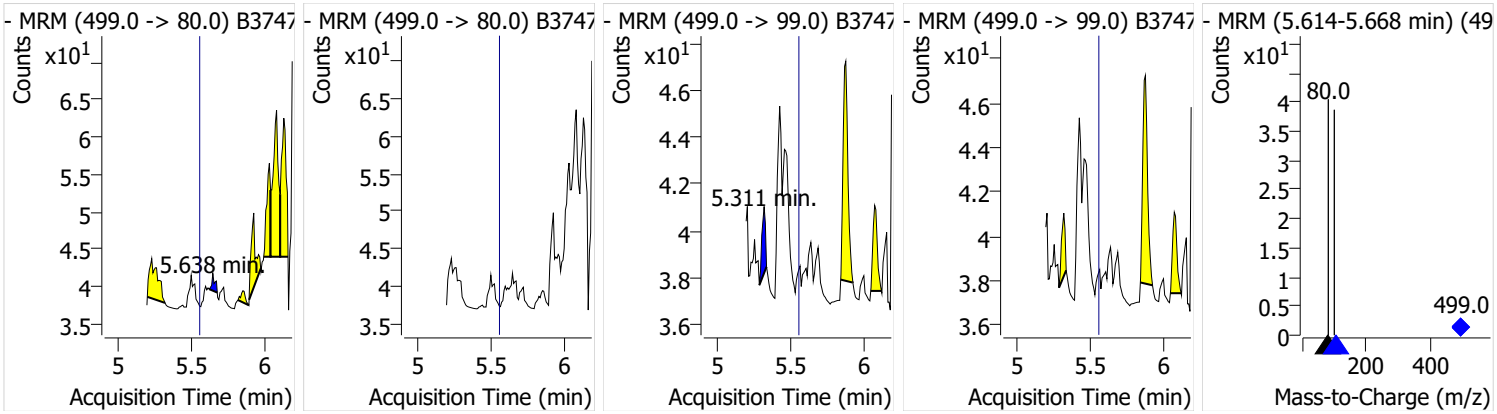

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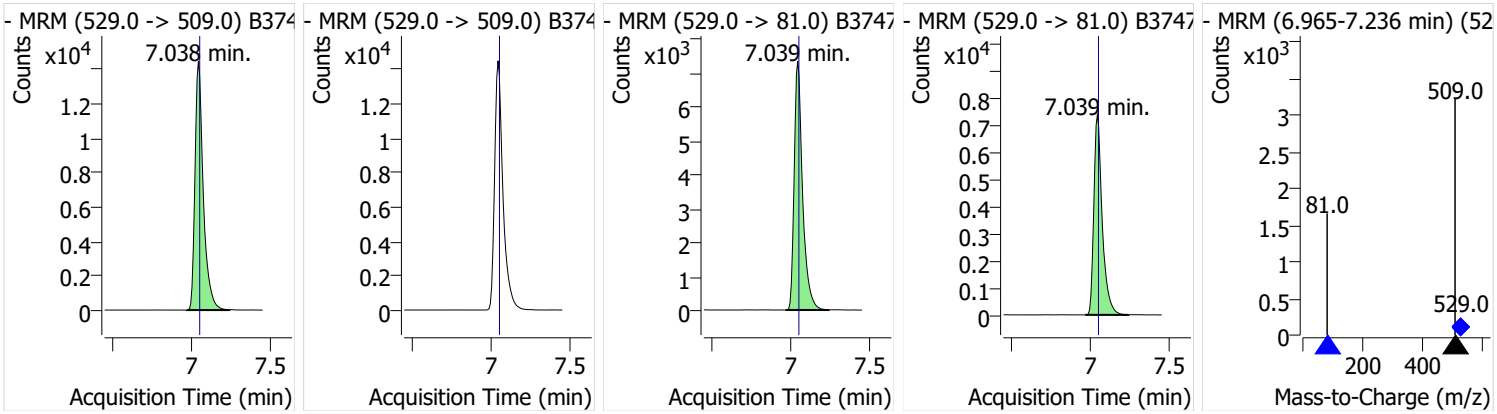

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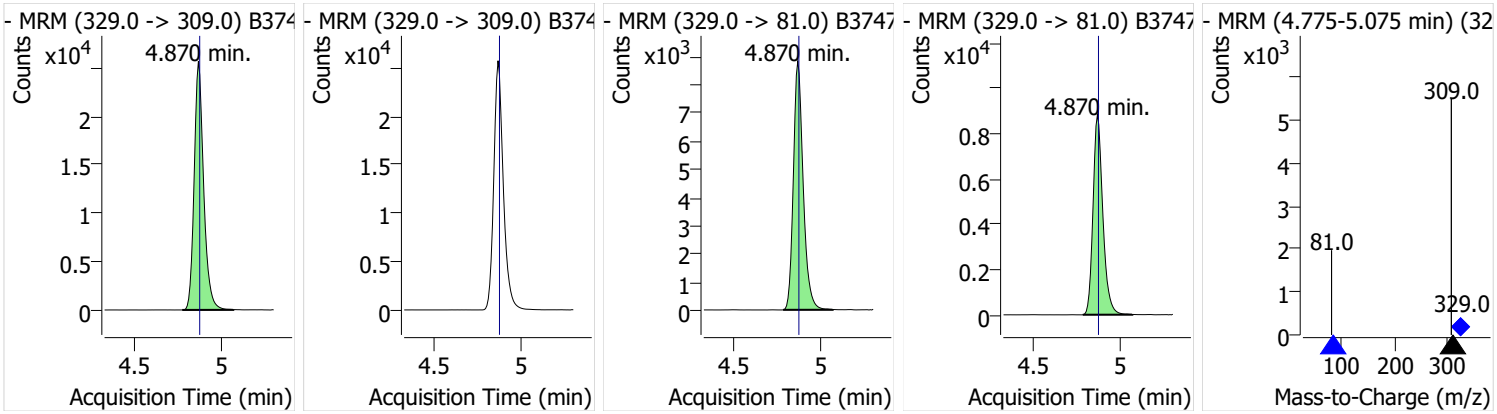

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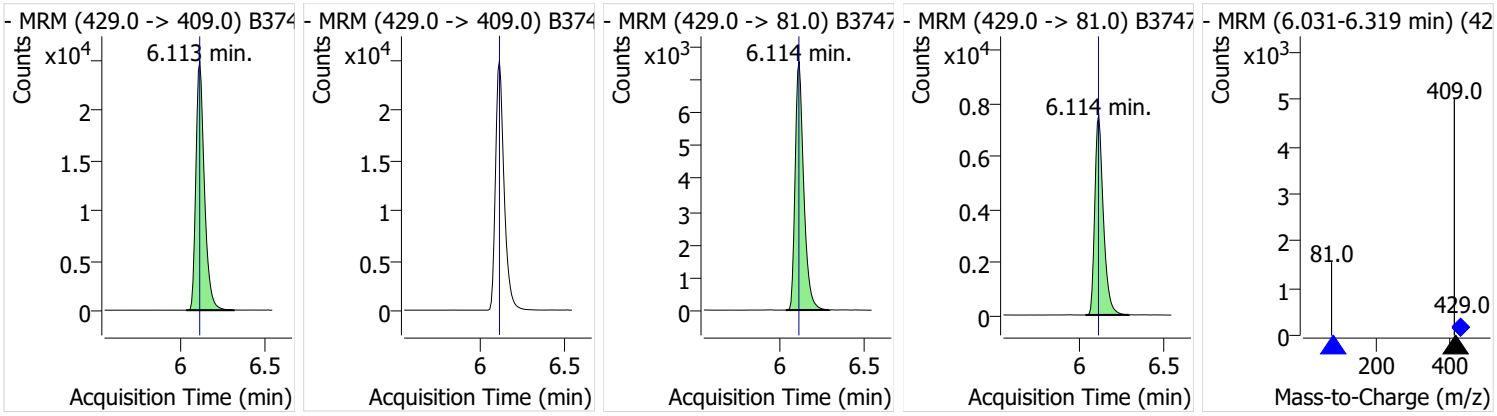

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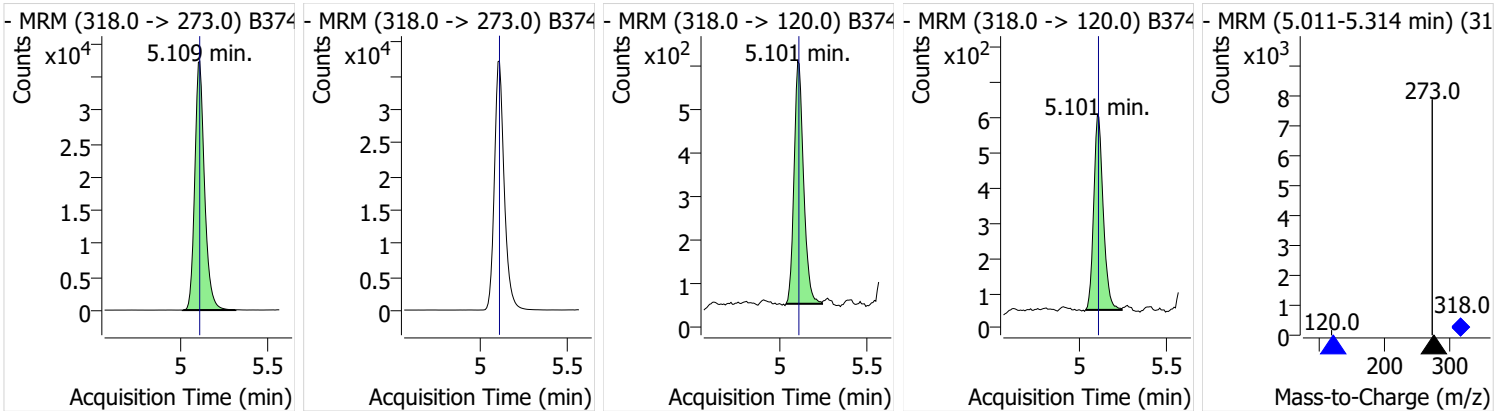

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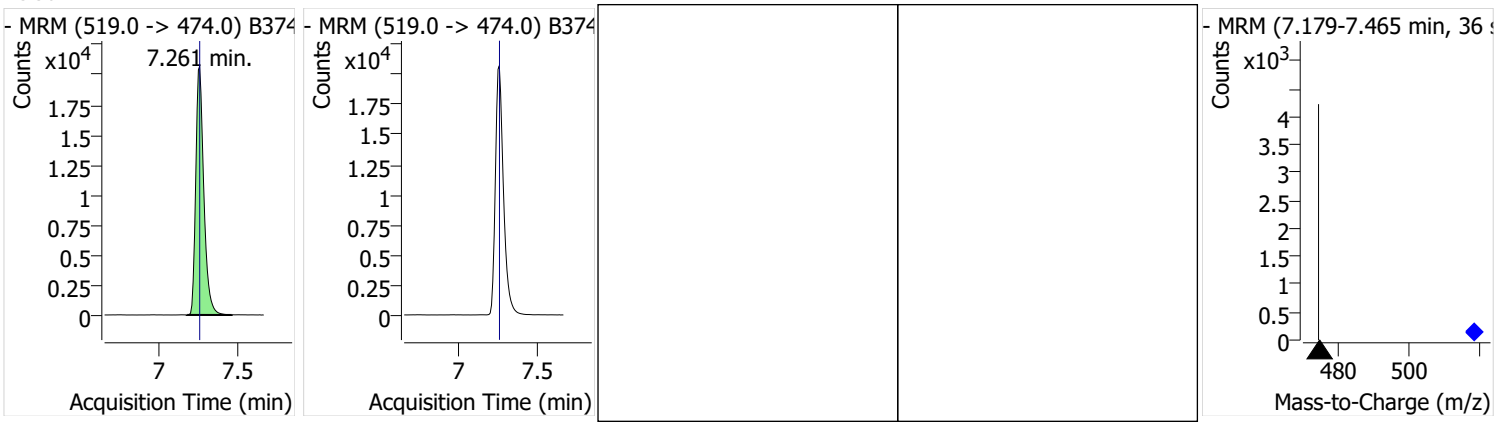

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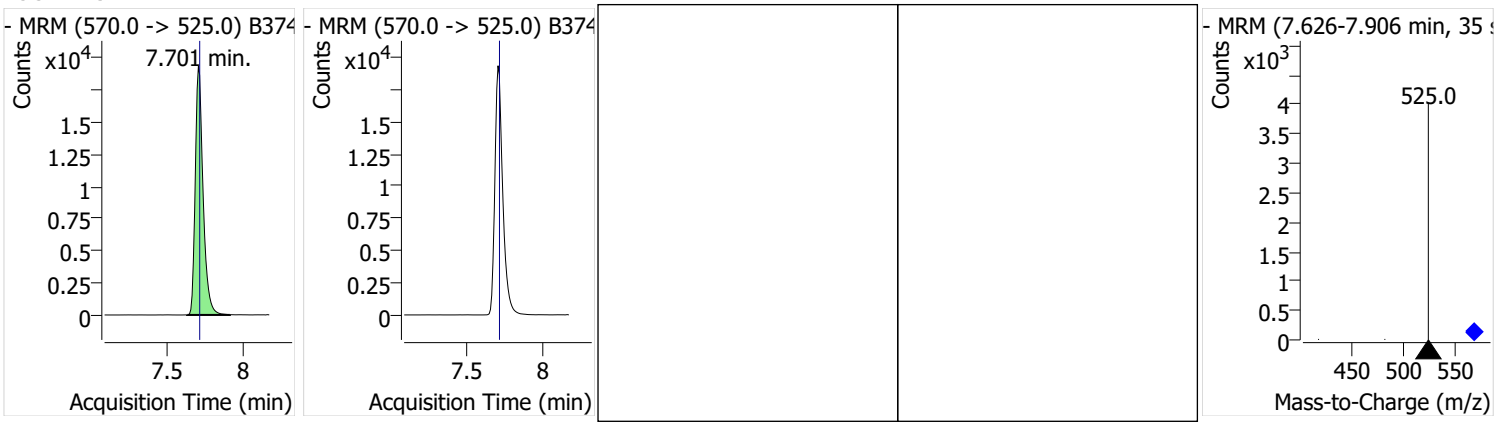

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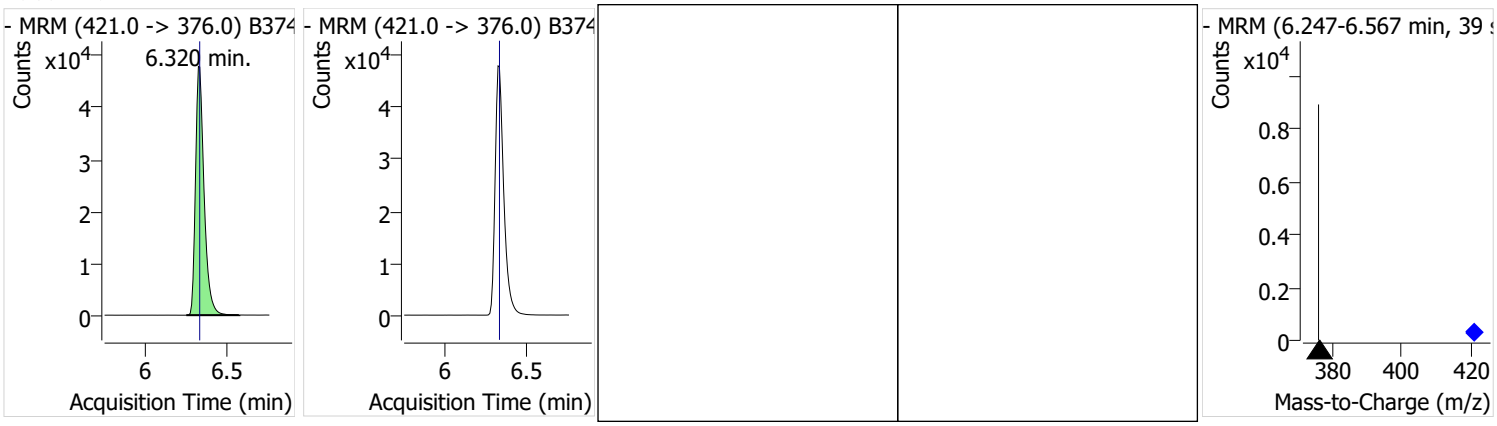

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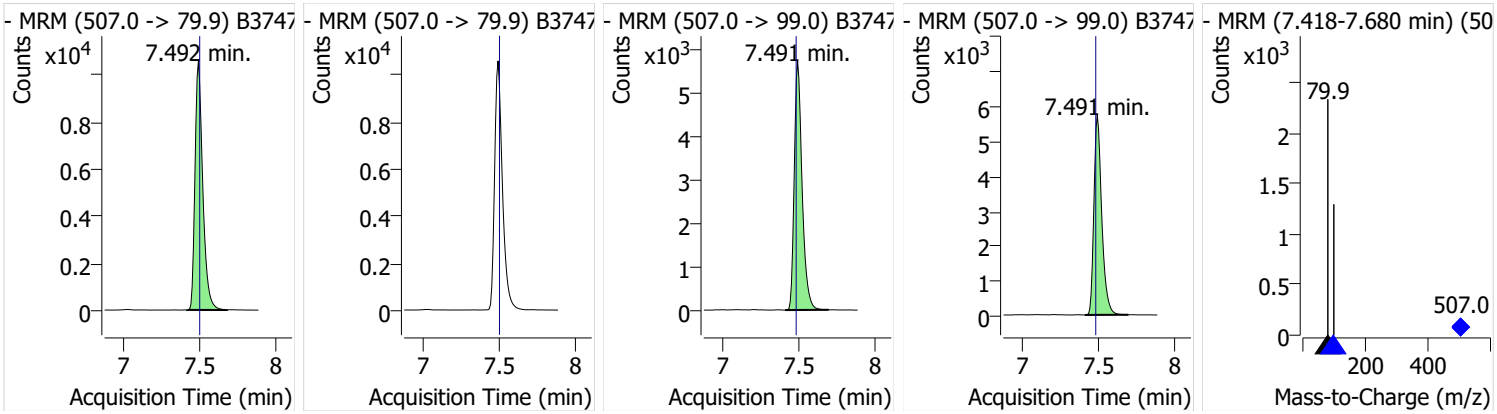

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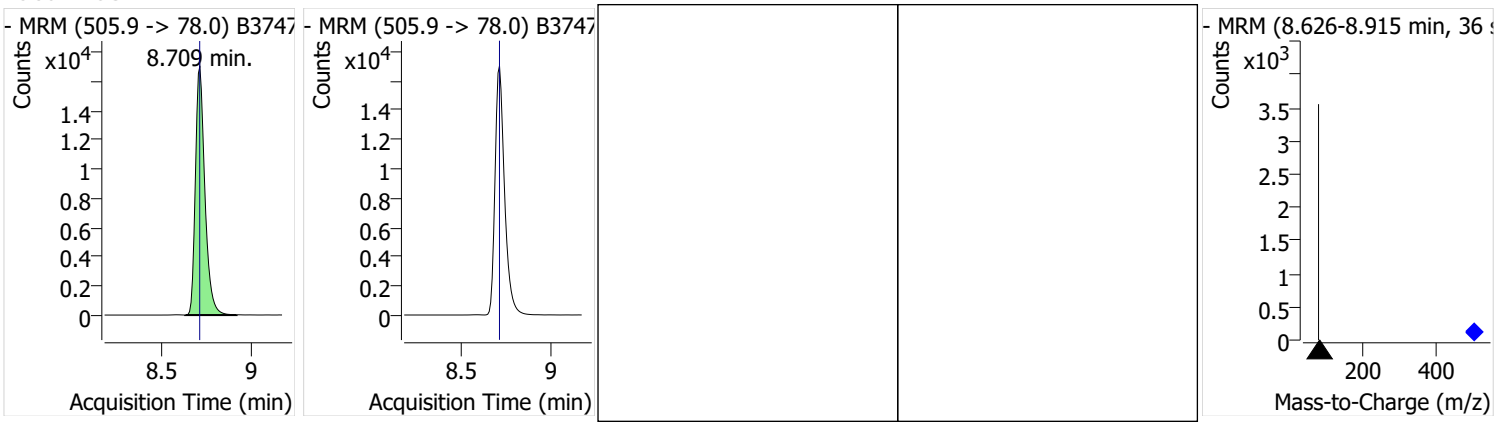

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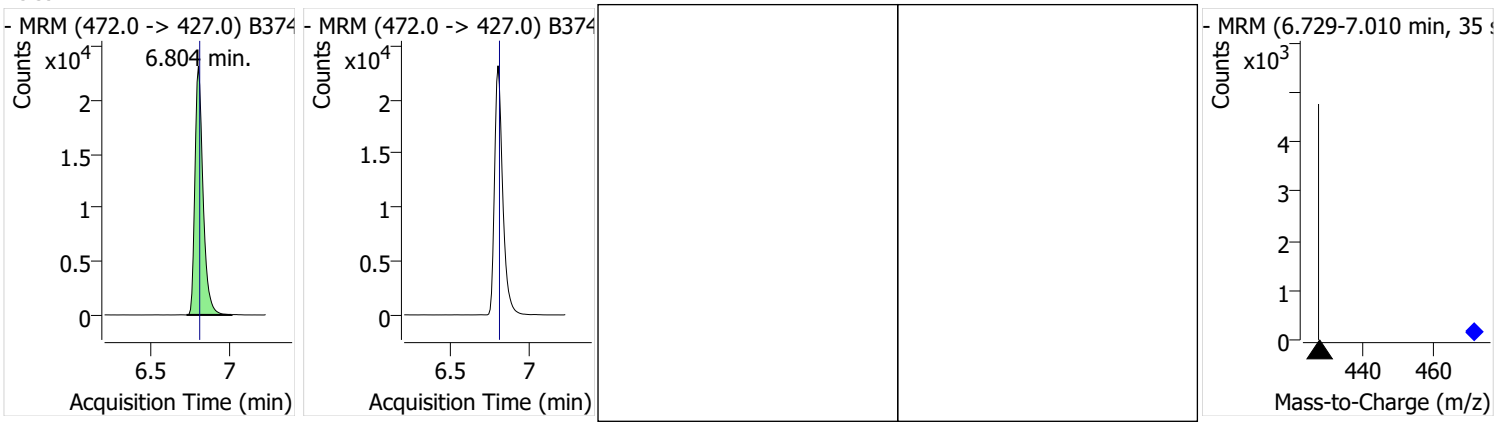

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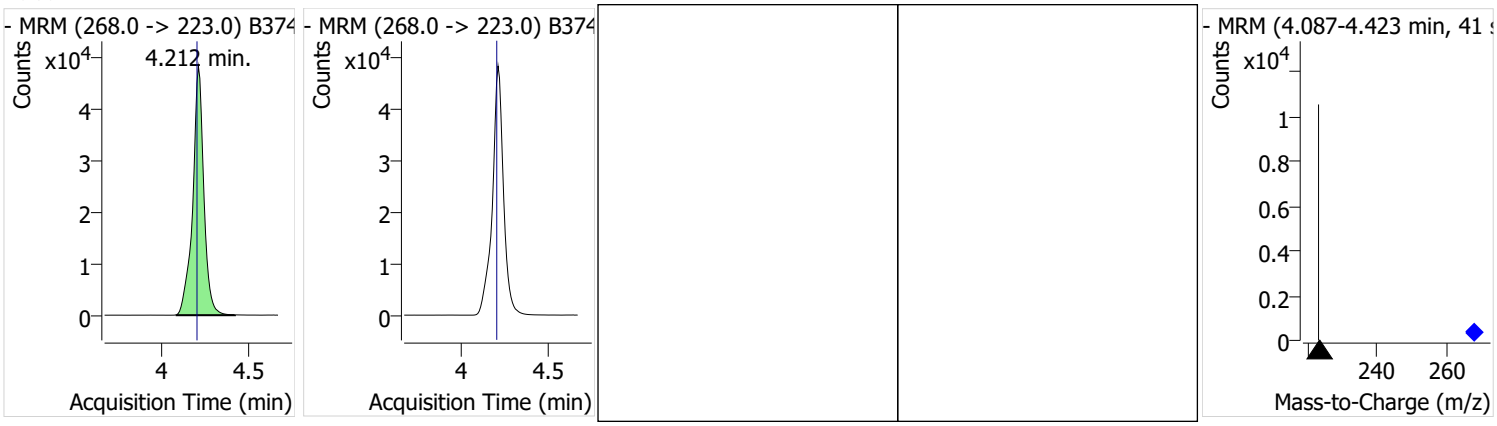

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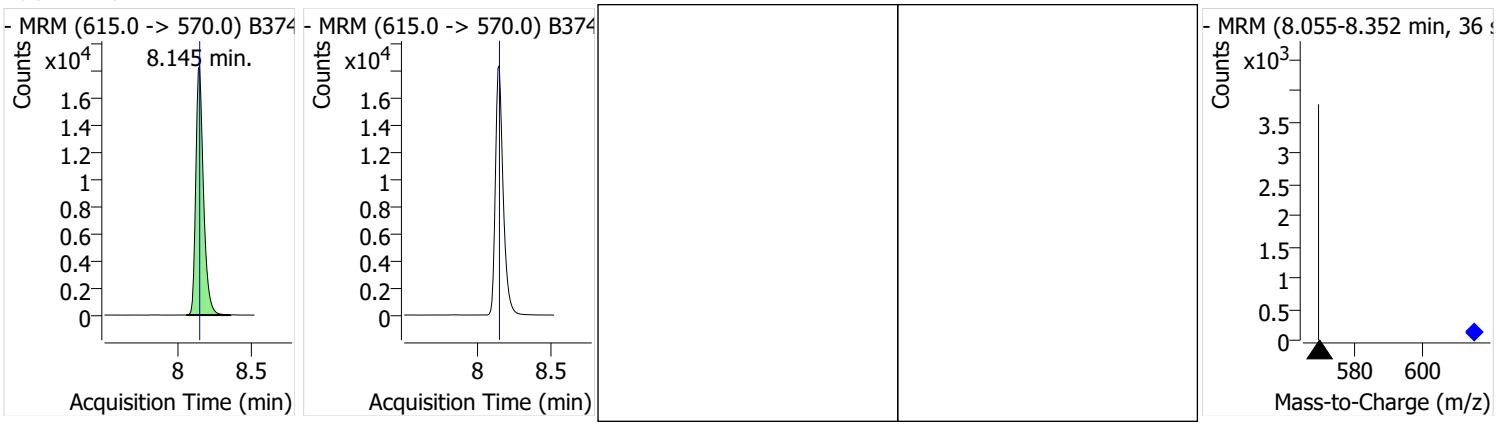

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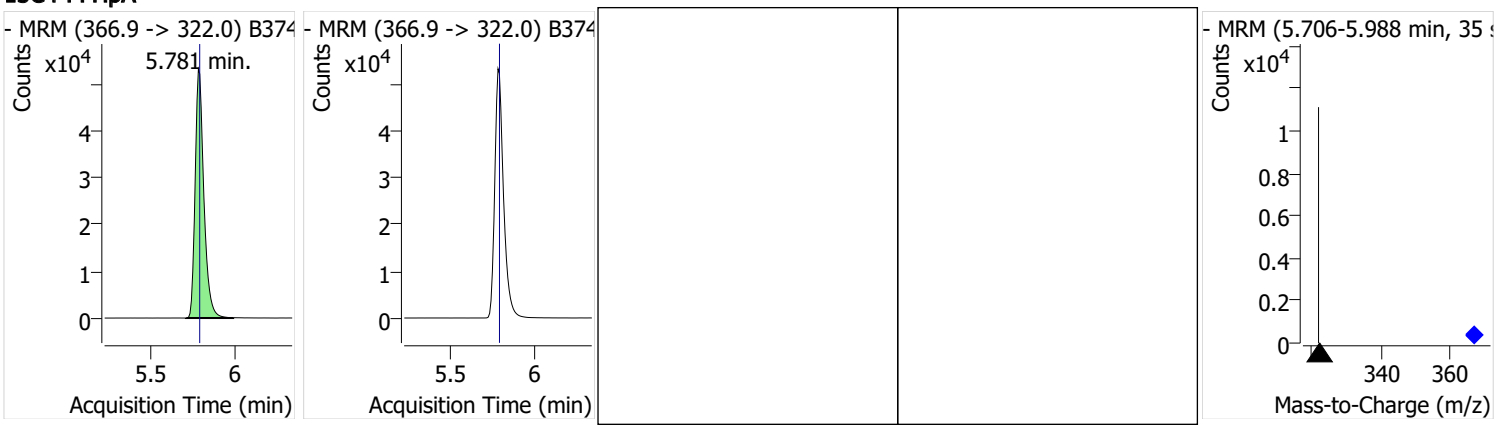

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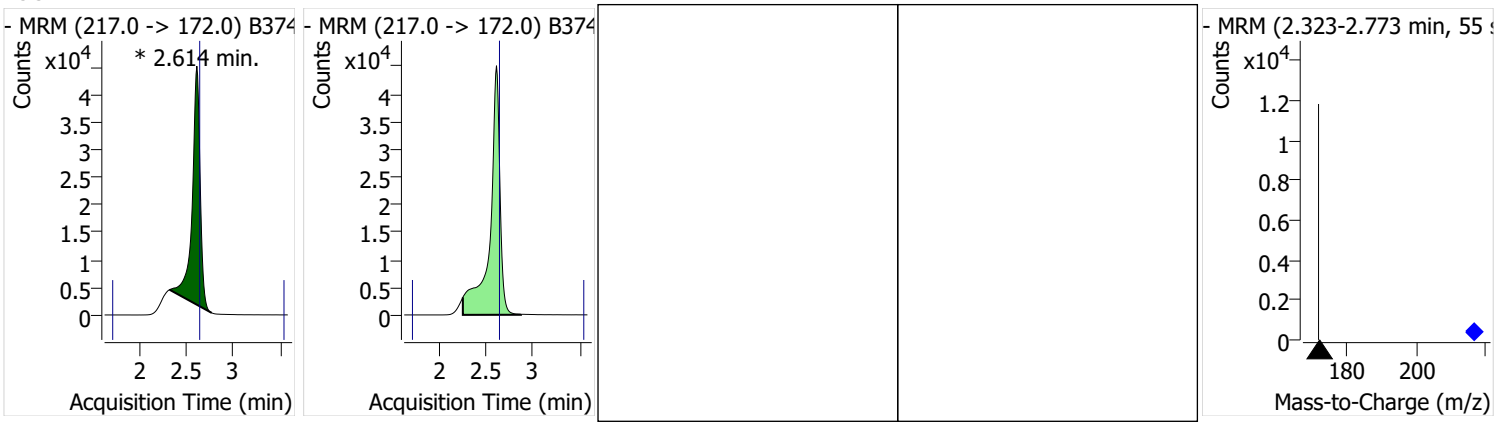

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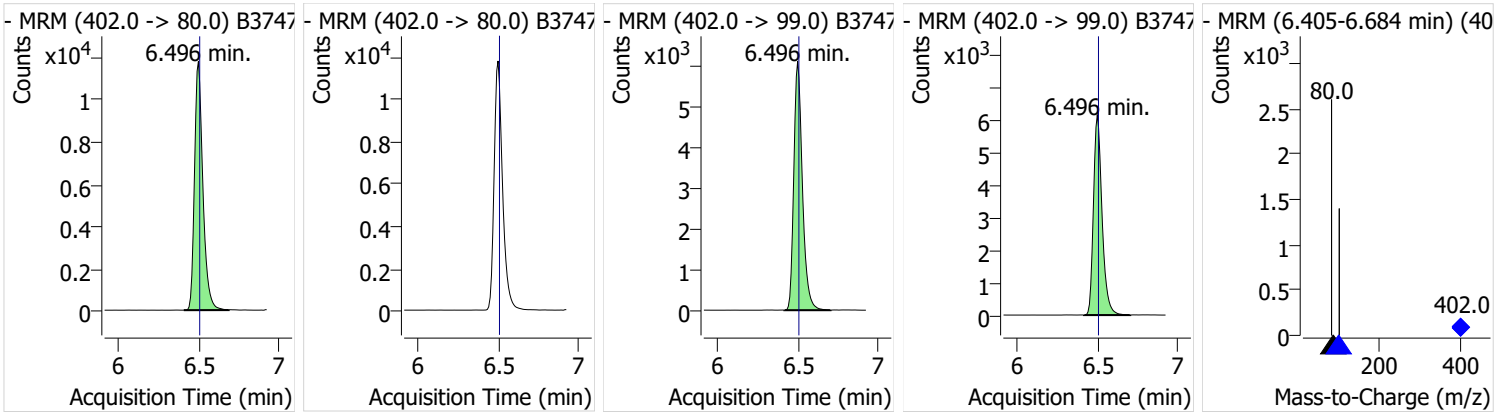

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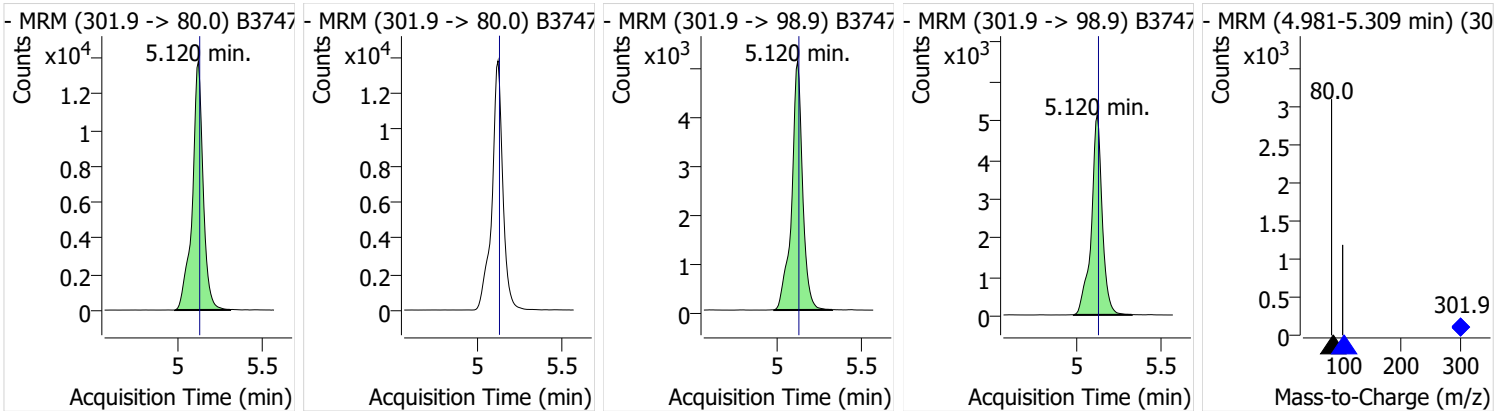

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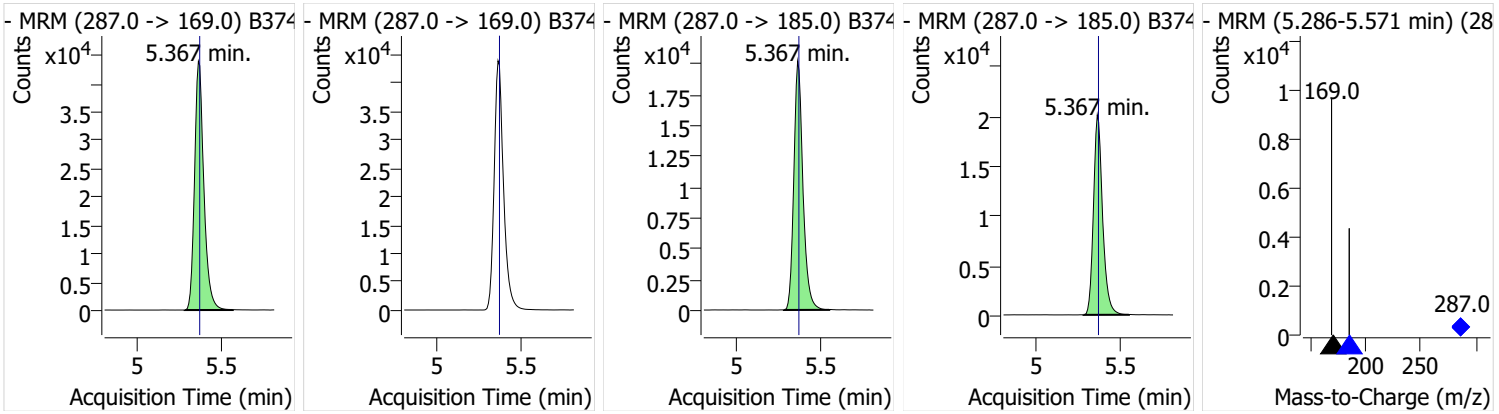

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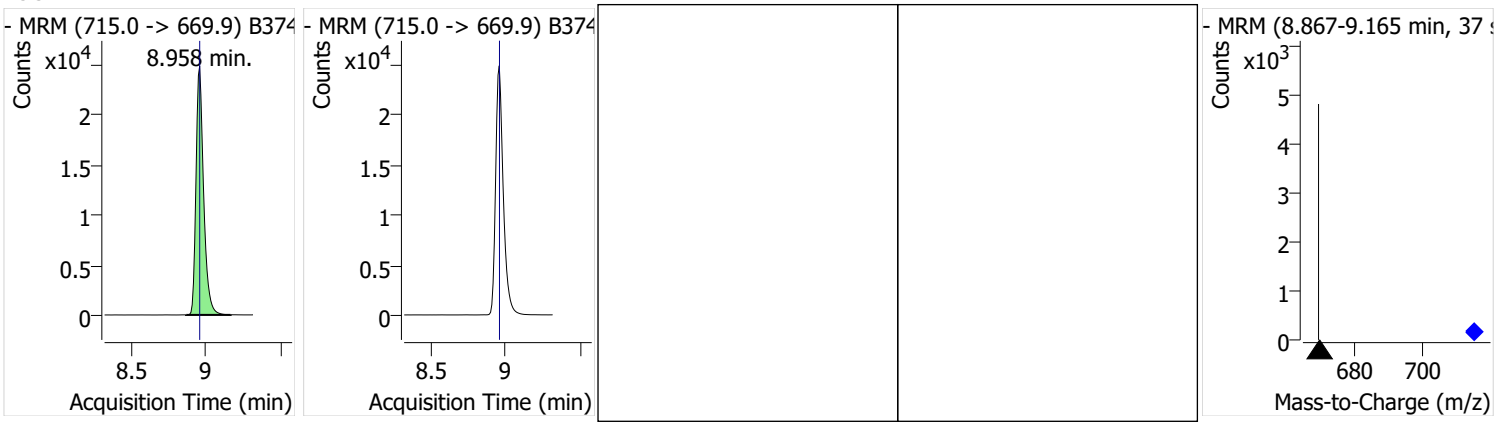
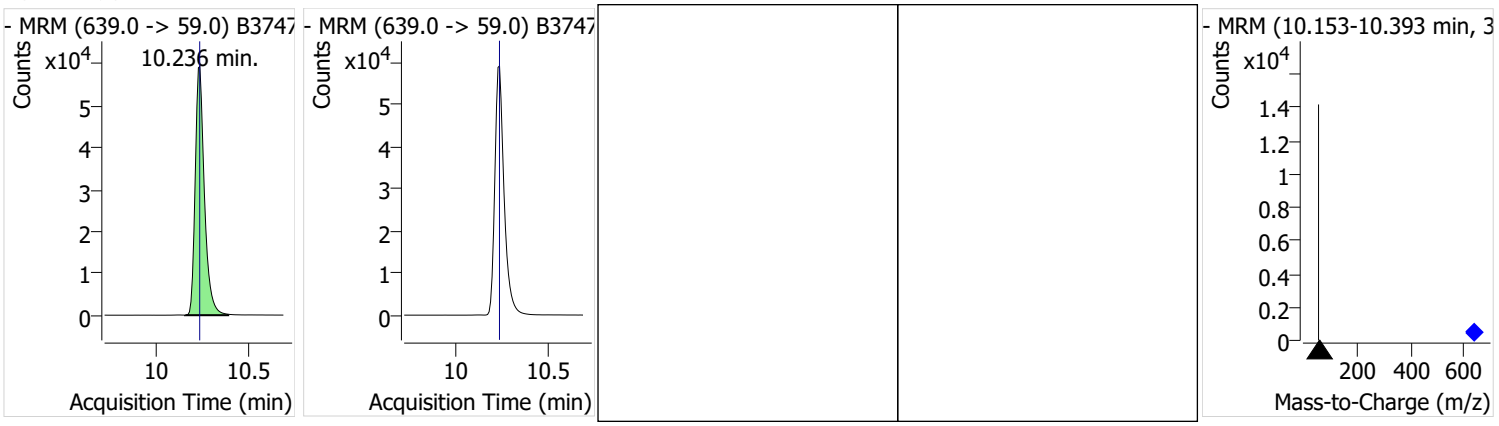
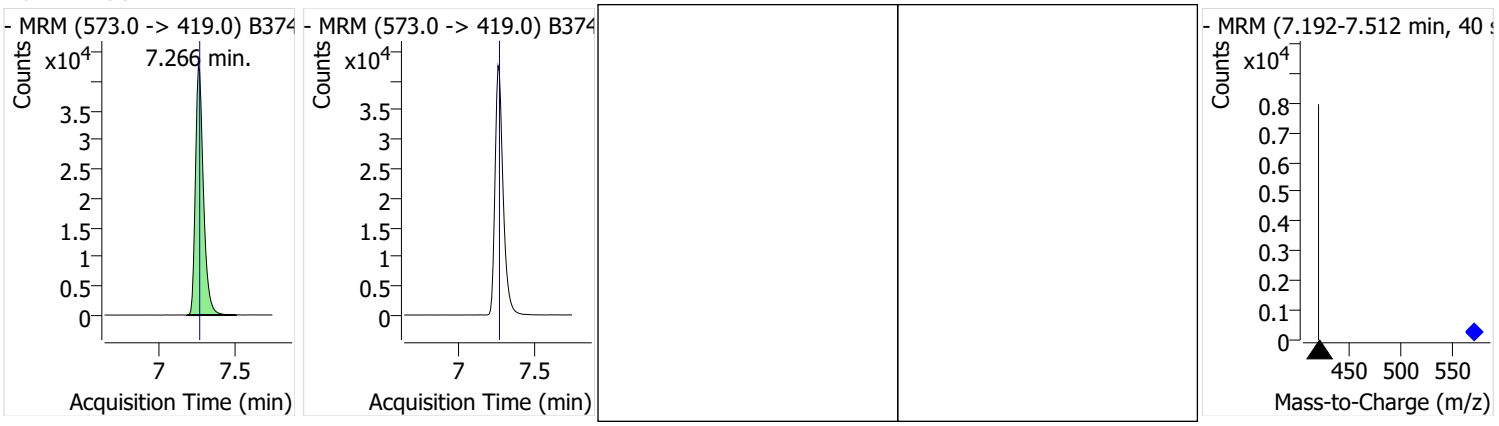


D9-NEtFOSE



D3-NMeFOSA

D3-NMeFOSAA



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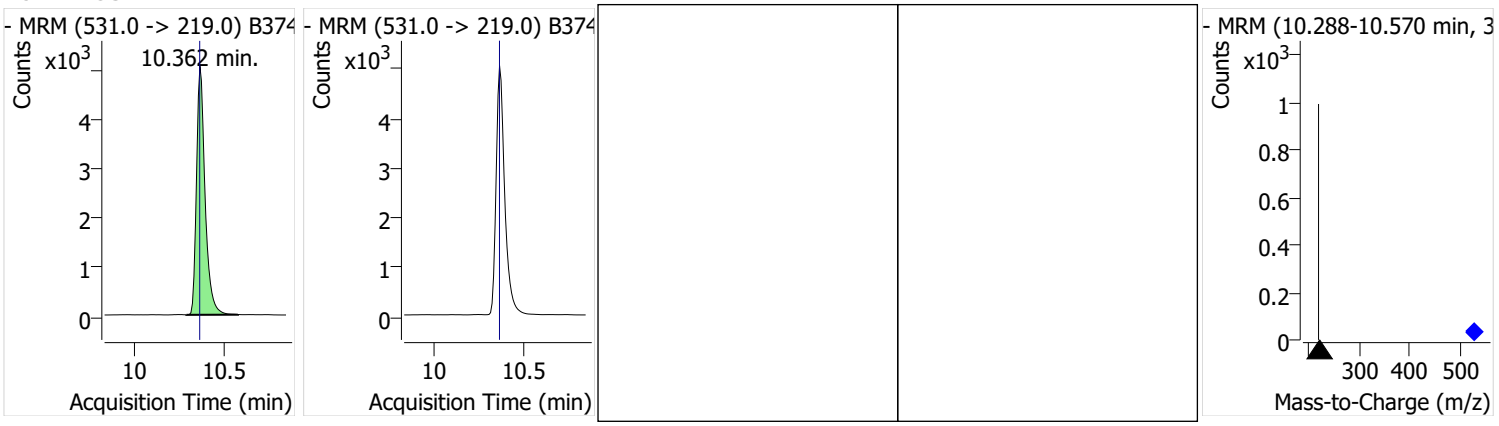

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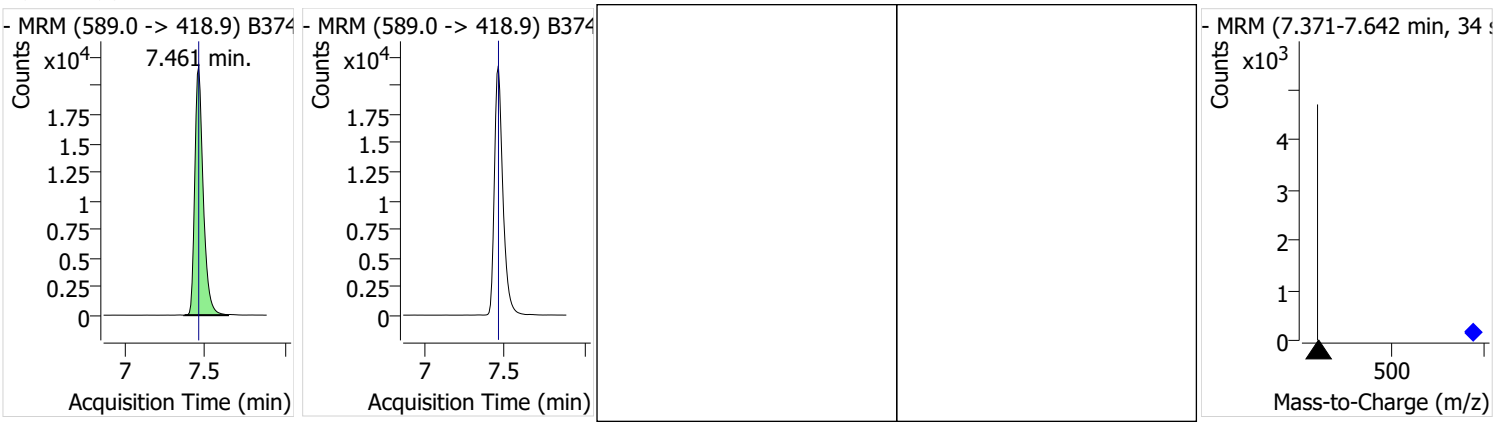

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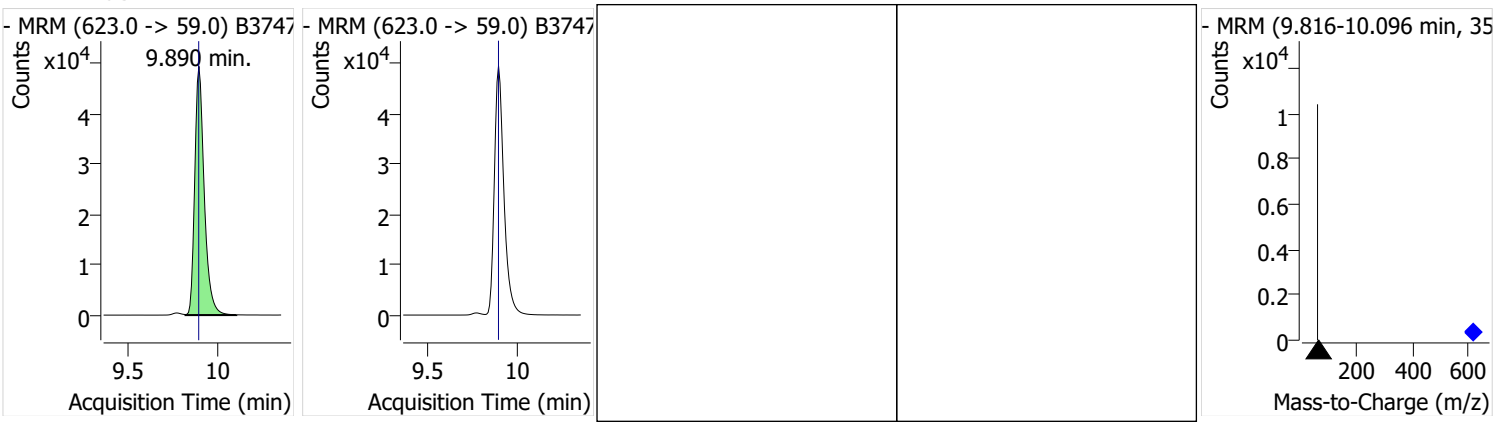


PREPARATION BENCH SHEET

Printed: 5/14/2024 10:09:36AM

Analysis
PFAS 1633

B374213

Pace New England

2793

Prepared using: Draft Method 1633

24E0193 KND 5/15/24

Surrogate Solution
~~24D0911~~ ~~DM~~1633 EIS

Spiking Solution
24D0681 DM1633 LCS SPIKE
24E0382 DM1633 LLLCS SPIKE

Matrix: Soil

B-PFAS 002 B427408581 KND 5/15/24

Lab Number	Cont.	Sample ID and Source Sample	Due Date	Expires	TAT	%Solid	Adjusted Wt.	Initial (g)	Final (mL)	ul Spike	ul Surrogate	Extraction Comments
B374213-BLK1		Blank						5.148			50	
B374213-BS1		LCS						5.168		30	50	
B374213-MRL1		MRL Check						~~5.008~~ 5.001 mL 5/14/24		25	50	
B374213-MS1		Matrix Spike [24E1437-06]				72.5112	6.90	7.010		30	50	
B374213-MSD1		Matrix Spike Dup [24E1437-06]				72.5112	6.90	7.060		30	50	
24D3293-01	A	01	05/24/24	07/25/24	20			5.117			50	
24D3293-01RE1	A	01	05/24/24	07/25/24	20			0.528			50	10X DILUTION
24E0557-04	H	4R4-5-02-24Fence 59-2A	06/03/24	07/31/24	20	75.6916	6.61	6.742			50	
24E0557-07	H	7R4-5-02-24Fence	06/03/24	07/31/24	20	76.6589	6.52	6.633			50	
24E0557-08	F	8R4-5-02-24Fence	06/03/24	07/31/24	20	76.9206	6.50	6.615			50	
24E0557-10	F	10R4-5-02-24Fence	06/03/24	07/31/24	20	79.8243	6.26	6.376			50	
24E0557-11	H	R4Field Dupe	06/03/24	07/31/24	20	76.0976	6.57	6.722			50	
24E1437-02	F	CG-2 59-10	05/24/24	08/06/24	10	62.9884	7.94	7.995			50	CAT B
24E1437-04	F	B1A	05/24/24	08/06/24	10	85.5468	5.84	5.995			50	CAT B
24E1437-06	P	SB1A	05/24/24	08/06/24	10	72.5112	6.90	6.917 mL 5/14/24			50	CAT B
24E1437-12	F	SB4A	05/24/24	08/06/24	10	77.8651	6.42	6.589			50	CAT B
24E1437-17	F	SB7	05/24/24	08/06/24	10	69.3423	7.21	7.386			50	CAT B
24E1437-19	F	DUP	05/24/24	08/06/24	10	69.5702	7.19	7.259			50	CAT B

KND 5/15/24
Spikedby/Witnessed By Date

KND 5/15/24
Extracted By Date

C:\ELMNT\Print\bch_DEF_1633_Soil.rpt

PREPARATION BENCH SHEET

Printed: 5/14/2024 10:09:36AM

Analysis
PFAS 1633

B374213

Pace New England

Prepared using: Draft Method 1633

Surrogate Solution
24D0911 DM1633 EIS

Spiking Solution
24D0681 DM1633 LCS SPIKE
24E0382 DM1633 LLLCS SPIKE

2794

Matrix: Soil

Client ID matches container CML 5/14/24

ISTD Element #: 24E0305 TJG 5/17/24

Standard ID#	Description
2303252	Carbon
2308445	Ammonium Hydroxide ACS Reage
~~23I0589~~	NYLON MEMBRANE, 0.2UM 25MI 24E0497
~~23L0082~~	HENKE-JECT 24D0976
23L0247	Centrifuge Tube 50mL - BASIX
~~24A0391~~	Strata Weak Anion Exchange Cartı 24A0740 : 24E0404
~~24A0678~~	0.1M Formic Acid 24B0393
~~24A0679~~	0.3M Formic Acid 24E0483
~~24C0142~~	Centrifuge Tube 15mL 23L0322
~~24D0493~~	Methanol 24E0303
~~24D1055~~	1% ammonium hydroxide in metha ~~24D~~ 24E0460
24E0027	0.3% ammonium hydroxide in metl
~~24E0187~~	1:1 0.1M Formic Acid:Methanol 24E0506

TJG 5/17/24

TJG 5/17/24

Spikedby/Witnessed By Date

Extracted By Date

C:\ELMNT\Print\bch_DEF_1633_Soil.rpt

PREPARATION BENCH SHEET

Printed: 5/20/2024 5:23:14PM

Analysis
PFAS 1633

B374779

Pace New England

24E0408 5
KND 5/21/24

Prepared using: Draft Method 1633

Surrogate Solution
~~24D0911~~ DM1633 EIS

Spiking Solution
24D0681 DM1633 LCS SPIKE
24E0382 DM1633 LLLCS SPIKE

B-PFAS 002 B427405B1

2795

Matrix: Soil

hood 1

Lab Number	Cont.	Sample ID and Source Sample	Due Date	Expires	TAT	%Solid	Adjusted Wt.	Initial (g)	Final (mL)	ul Spike	ul Surrogate	Extraction Comments
B374779-BLK1		Blank									50	
B374779-BS1		LCS								30	50	
B374779-MRL1		MRL Check								25	50	
B374779-MS1		Matrix Spike [24D2383-01]				89.0661	5.61			30	50	
B374779-MSD1		Matrix Spike Dup [24D2383-01]				89.0661	5.61			30	50	
24D2383-01	B	B-304 (0-7)	05/29/24	07/16/24	28	89.0661	5.61				50	report U flags
24D2383-03	B	B(MW)-303 (0-7)	05/29/24	07/16/24	28	87.3069	5.73				50	report U flags
24D2383-05	B	B-302 (0-7)	05/29/24	07/16/24	28	91.6749	5.45				50	report U flags
24D2383-07	B	B(MW)-301 (0-7)	05/29/24	07/16/24	28	92.0421	5.43				50	report U flags
24D2383-09	A	B(MW)-205 (0-2)	05/29/24	07/16/24	28	86.8955	5.75				50	report U flags
24D2383-10	A	B(MW)-205 (5-7)	05/29/24	07/16/24	28	92.1035	5.43				50	report U flags
24E1437-19RE1	F	DUP 59 1D	05/24/24	08/06/24	10	69.5702	7.19				50	Re-extract added 5/20/2024 by QNW
~~24E2393-04~~	~~C~~	~~WC-1~~	~~05/31/24~~	~~08/11/24~~	~~10~~				KND	5/21/24	50	
~~24E2393-05~~	~~E~~	~~WC-2~~	~~05/31/24~~	~~08/11/24~~	~~10~~						50	

KND 5/21/24
Spikedby/Witnessed By Date

KND 5/21/24
Extracted By Date

C:\ELMNT\Print\bch_DEF_1633_Soil.rpt

PREPARATION BENCH SHEET

Printed: 5/20/2024 5:23:14PM

Analysis
PFAS 1633

B374779

Pace New England

Prepared using: Draft Method 1633

Surrogate Solution
24D0911 DM1633 EIS

Spiking Solution
24D0681 DM1633 LCS SPIKE
24E0382 DM1633 LLLCS SPIKE

2796

Matrix: Soil

Client ID matches container _____

ISTD Element #: 24E0510 KRG 5/23/24

Standard ID#	Description
2303252	Carbon
2308445	Ammonium Hydroxide ACS Reage
23I0589	NYLON MEMBRANE, 0.2UM 25MI
23L0082	HENKE-JECT
23L0247	Centrifuge Tube 50mL - BASIX
~~24A0381~~	Strata Weak Anion Exchange Cartı 24E0404
~~24A0678~~	0.1M Formic Acid 24E0503
~~24A0679~~	0.3M Formic Acid 24E0604
~~24C0142~~	Centrifuge Tube 15mL 23K0322
~~24D0493~~	Methanol 24E0303
~~24D1055~~	1% ammonium hydroxide in metha 24E0610
24E0027	0.3% ammonium hydroxide in metl
~~24E0187~~	1:1 0.1M Formic Acid:Methanol 24E0717

KRG 5/22/24

Spikedby/Witnessed By _____ Date _____

Extracted By _____ Date _____

C:\ELMNT\Print\bch_DEF_1633_Soil.rpt

ANALYSIS SEQUENCE

S104823

Instrument: QQQ6

Calibration ID: 2400518

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
S104823-IBL1	QC		1		24E0356	24E0305	
S104823-CCV1	QC		2		24E0668	24E0305	
S104823-CCB1	QC		3		24E0356	24E0305	
S104823-RES1	QC		4		24E0179	24E0305	
S104823-CCV2	QC		5		24E0158	24E0305	
S104823-CCB2	QC		6		24E0458	24E0305	
B374213-BLK1	QC		7			24E0305	
B374213-MRL1	QC		8			24E0305	
B374213-BS1	QC		9			24E0305	
B374213-MS1	QC		10			24E0305	
B374213-MSD1	QC		11			24E0305	
24D3293-01	PFAS 1633	A	12			24E0305	
24D3293-01RE1	PFAS 1633	A	13			24E0305	10X DILUTION
24E0557-04	PFAS 1633	H	14			24E0305	
24E0557-07	PFAS 1633	H	15			24E0305	
24E0557-08	PFAS 1633	F	16			24E0305	
24E0557-10	PFAS 1633	F	17			24E0305	
24E0557-11	PFAS 1633	H	18			24E0305	
24E1437-02	PFAS 1633	F	19			24E0305	CAT B
24E1437-04	PFAS 1633	F	20			24E0305	CAT B
24E1437-06	PFAS 1633	P	21			24E0305	CAT B
S104823-CCV3	QC		22		24E0158	24E0305	
S104823-CCB3	QC		23		24E0458	24E0305	
24E1437-12	PFAS 1633	F	24			24E0305	CAT B
24E1437-17	PFAS 1633	F	25			24E0305	CAT B
24E1437-19	PFAS 1633	F	26			24E0305	CAT B
S104823-CCV4	QC		27		24E0158	24E0305	
S104823-CCB4	QC		28		24E0458	24E0305	

Samples Loaded By Date

Data Processed By Date

ANALYSIS SEQUENCE

S105135

Instrument: QQQ5

Calibration ID: 2400593

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
S105135-IBL1	QC		1		24E0527	24E0570	
S105135-RES1	QC		2		24E0566	24E0570	
S105135-CCV1	QC		3		24E0154	24E0570	
S105135-CCB1	QC		4		24E0527	24E0570	
S105135-CCV2	QC		5		24E0158	24E0570	
S105135-CCB2	QC		6		24E0527	24E0570	
B374779-BLK1	QC		7			24E0570	
B374779-MRL1	QC		8			24E0570	
B374779-BS1	QC		9			24E0570	
B374779-MS1	QC		10			24E0570	
B374779-MSD1	QC		11			24E0570	
24D2383-01	PFAS 1633	B	12			24E0570	report U flags
24D2383-03	PFAS 1633	B	13			24E0570	report U flags
24D2383-05	PFAS 1633	B	14			24E0570	report U flags
24D2383-07	PFAS 1633	B	15			24E0570	report U flags
24D2383-09	PFAS 1633	A	16			24E0570	report U flags
24D2383-10	PFAS 1633	A	17			24E0570	report U flags
24E1437-19RE1	PFAS 1633	F	18			24E0570	Re-extract added 5/20/2024 by (
S105135-CCV3	QC		19		24E0158	24E0570	
S105135-CCB3	QC		20		24E0527	24E0570	
S105135-CCV4	QC		21		24E0158	24E0570	
S105135-CCB4	QC		22		24E0527	24E0570	
B375132-BLK1	QC		23			24E0570	
B375132-MRL1	QC		24			24E0570	
B375132-BS1	QC		25			24E0570	
24E1587-01	PFAS 1633	A	26			24E0570	
24E1587-02	PFAS 1633	A	27			24E0570	
24E1591-01	PFAS 1633	A	28			24E0570	
24E1596-01	PFAS 1633	A	29			24E0570	
24E1596-02	PFAS 1633	A	30			24E0570	
24E1596-03	PFAS 1633	A	31			24E0570	
S105135-CCV5	QC		32		24E0158	24E0570	
S105135-CCB5	QC		33		24E0527	24E0570	

Samples Loaded By Date

Data Processed By Date

ANALYSIS SEQUENCE

S105135

Instrument: QQQ5

Calibration ID: 2400593

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments

Samples Loaded By Date

Data Processed By Date

PEST

SAMPLE DATA

1 - FORM I
ANALYSIS DATA SHEET

CG-2

Laboratory:	Pace New England			SDG:	24E1437
Client:	NYS Division of Environmental Rer			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-02	File ID:	H24E127030.d
Sampled:	05/08/24 10:40	Prepared:	05/10/24 15:22	Analyzed:	05/14/24 14:41
Solids:	62.99	Preparation:	SW-846 3546	Dilution:	10
Batch:	B374053	Sequence:	S104592	Calibration:	2400548
Instrument:	ECD 8				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
5103-71-9	alpha-Chlordane		0.034	0.074	
5103-74-2	gamma-Chlordane		0.032	0.074	
309-00-2	Aldrin		0.0073	0.074	
319-84-6	alpha-BHC		0.035	0.074	
319-85-7	beta-BHC		0.039	0.074	
319-86-8	delta-BHC		0.039	0.074	
58-89-9	gamma-BHC (Lindane)		0.010	0.030	
72-54-8	4,4'-DDD		0.013	0.059	
72-55-9	4,4'-DDE		0.0066	0.059	
50-29-3	4,4'-DDT		0.0076	0.059	
60-57-1	Dieldrin		0.0071	0.059	
959-98-8	Endosulfan I		0.036	0.074	
33213-65-9	Endosulfan II		0.032	0.12	
1031-07-8	Endosulfan Sulfate		0.029	0.12	
72-20-8	Endrin		0.038	0.12	
53494-70-5	Endrin Ketone		0.030	0.12	
76-44-8	Heptachlor		0.0081	0.074	
1024-57-3	Heptachlor Epoxide		0.0086	0.074	
72-43-5	Methoxychlor [2C]		0.071	0.74	
8001-35-2	Toxaphene		0.62	1.5	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127030.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 2:41 pm
Operator : PJG
Sample : 24E1437-02@10X FLOR TBA Inst : ECD 8
Misc :
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:57:05 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
		System Monitoring Compounds						
1)	S	Tetrachlo...	2.905	2.769	366.8E6	269.0E6	13.354	13.447
24)	S	Decachlor...	7.054	7.096	264.7E6	206.8E6	11.923m	13.025m
		Target Compounds						
2)	T	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
3)	T	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	T	gamma-BHC	0.000	0.000	0	0	N.D.	N.D.
5)	T	Beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6)	T	Delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	T	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
8)	T	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
9)	T	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
10)	T	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
11)	T	Y-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
12)	T	A-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
13)	T	4,4-DDE	5.023	5.004	16400726	12565355	~~0.528~~	~~0.550~~
14)	T	Endo-I	0.000	0.000	0	0	N.D. d	N.D. d
15)	T	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
16)	T	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
17)	T	4,4-DDD	0.000	0.000	0	0	N.D.	N.D.
18)	T	Endo-II	0.000	0.000	0	0	N.D. d	N.D. d
19)	T	4,4-DDT	0.000	0.000	0	0	N.D. d	N.D. d
20)	T	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
21)	T	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
22)	T	End Sulf	0.000	0.000	0	0	N.D. d	N.D. d
23)	T	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
25)	L8	Chlordane{1}	0.000	0.000	0	0	N.D. d	N.D. d
26)	L8	Chlordane{2}	0.000	0.000	0	0	N.D. d	N.D. d
27)	L8	Chlordane{3}	0.000	0.000	0	0	N.D. d	N.D. d
28)	L8	Chlordane{4}	0.000	0.000	0	0	N.D. d	N.D. d
29)	L8	Chlordane{5}	0.000	0.000	0	0	N.D. d	N.D. d
		Sum Chlordane			0	0	N.D.	N.D.
Average		Chlordane					0.000	0.000
30)	H	Toxaphene	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int

30

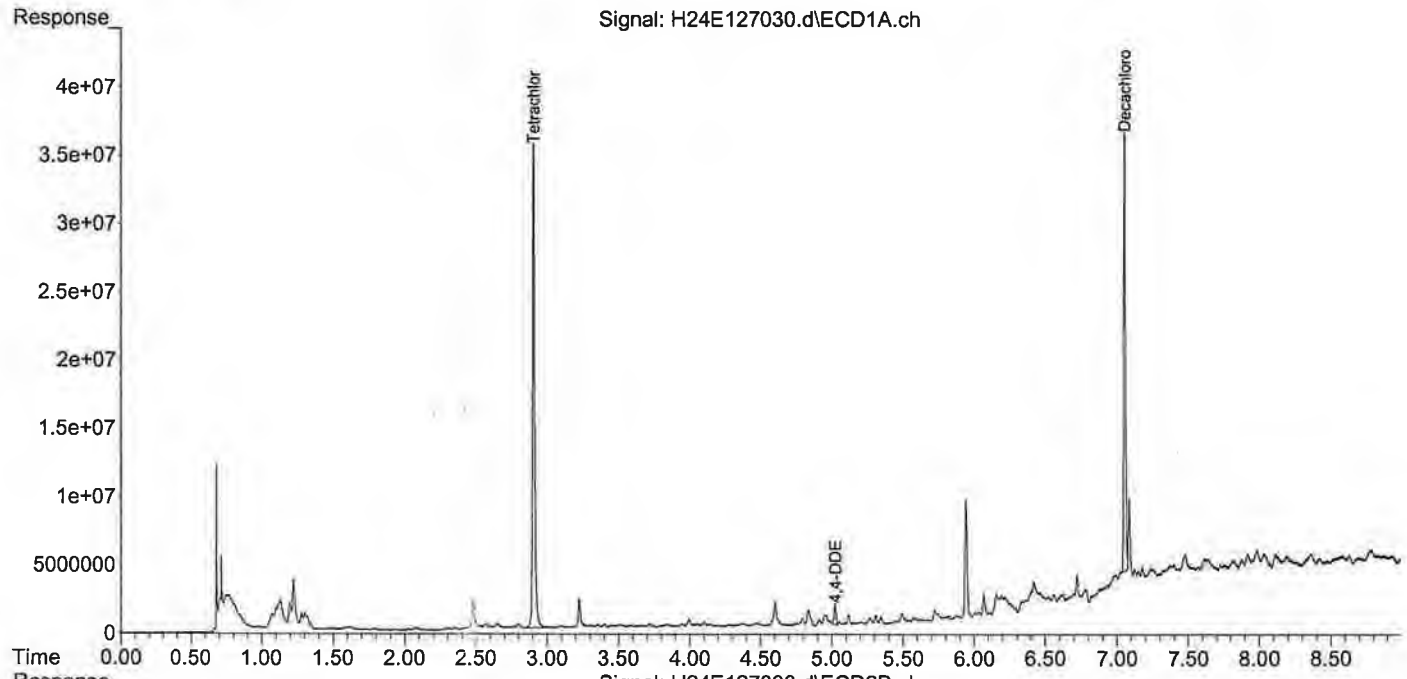
CHECKED BY:
MAY 15 2024
Todd Glonfridde

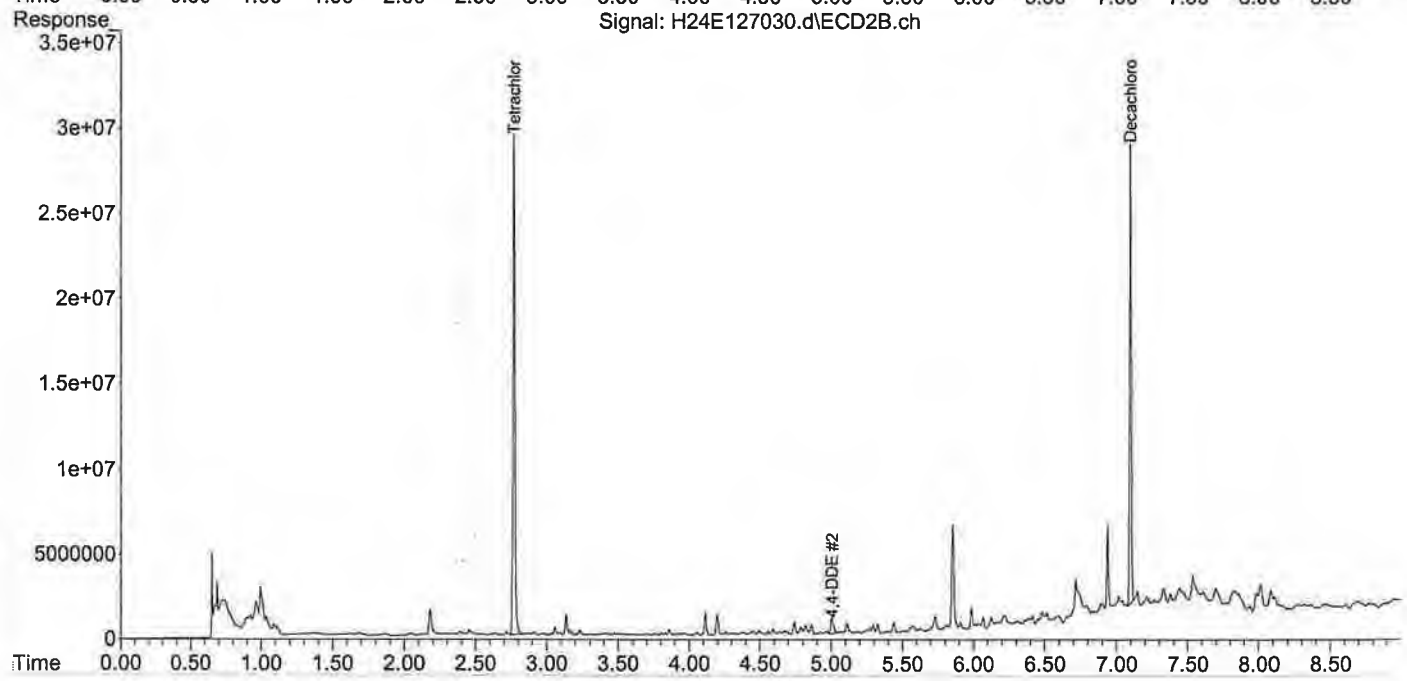
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127030.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 2:41 pm
Operator : PJG
Sample : 24E1437-02@10X FLOR TBA Inst : ECD 8
Misc :
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:57:05 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



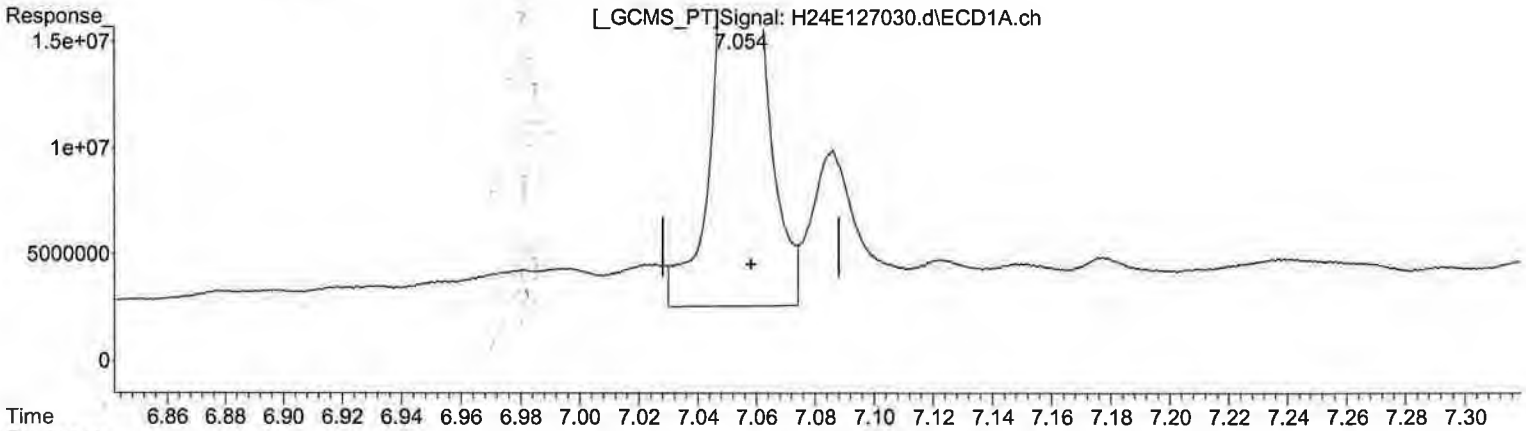


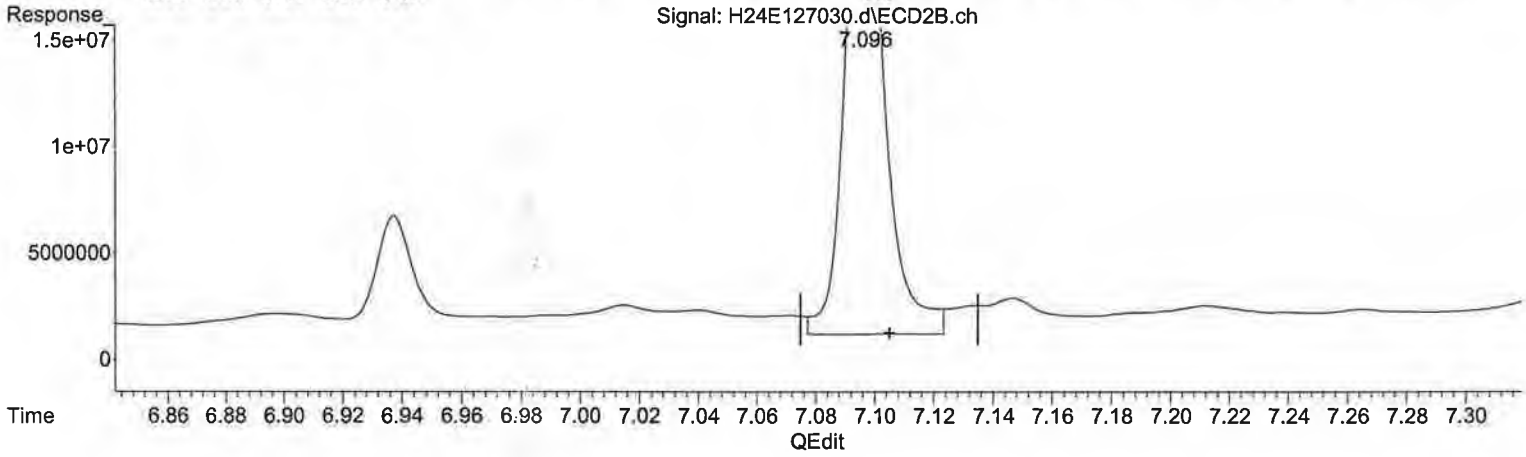
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127030.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 2:41 pm
Operator : PJG
Sample : 24E1437-02@10X FLOR TBA Inst : ECD 8
Misc :
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:12:06 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





(24) Decachlorobiphenyl (S)

7.055min 14.314 ug/L

response 317757229

(24) Decachlorobiphenyl #2 (S)

7.097min 14.706 ug/L

response 233470778

CHECKED BY:
MAY 15 2024
Todd Gionfriddo

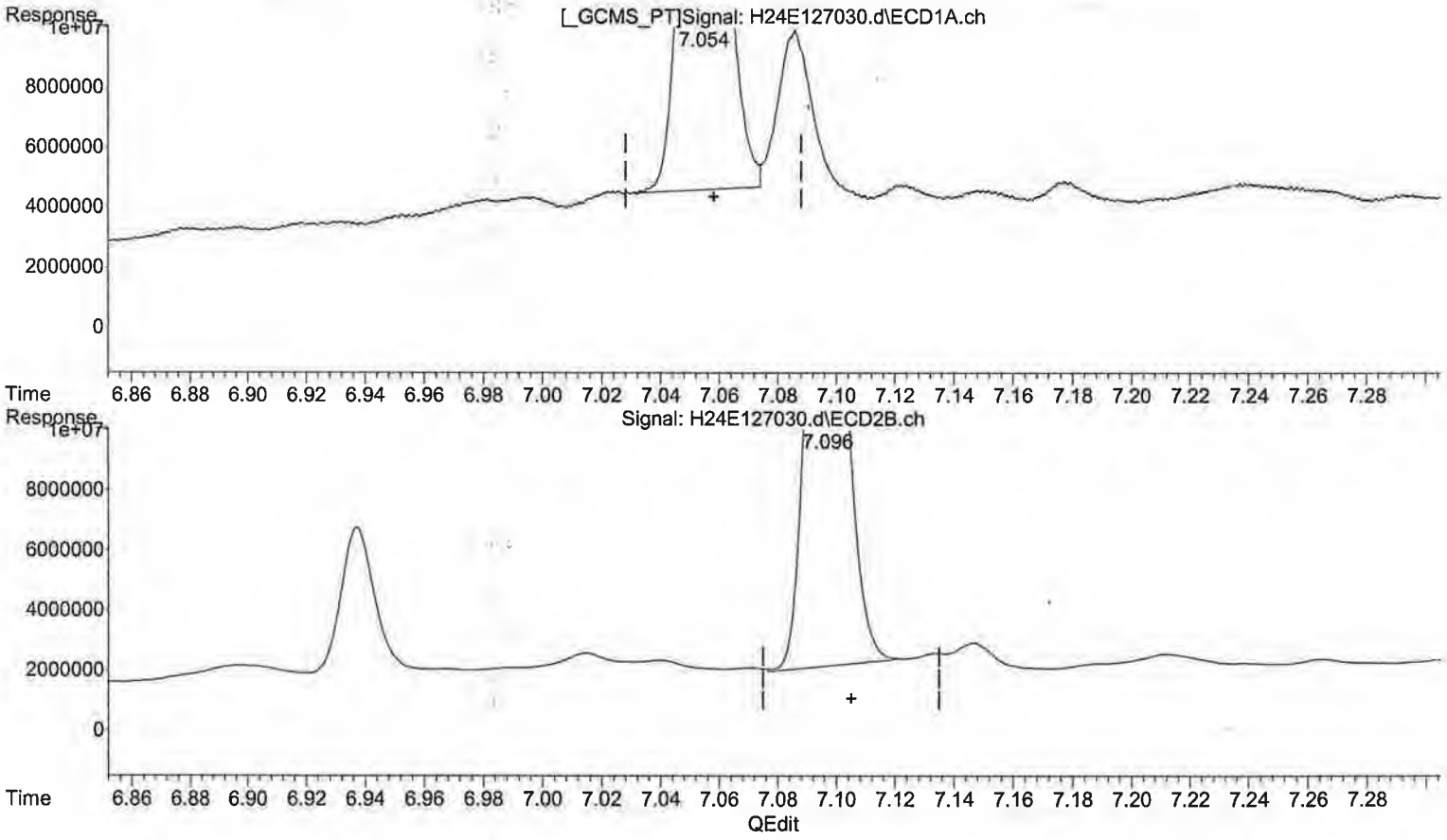
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127030.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 2:41 pm
Operator : PJG
Sample : 24E1437-02@10X FLOR TBA Inst : ECD 8
Misc :
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:12:06 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(24) Decachlorobiphenyl (S)

7.054min 11.923 ug/L m

response 264680468

(24) Decachlorobiphenyl #2 (S)

7.096min 13.025 ug/L m

response 206776259

CHECKED BY:
MAY 15 2024
Todd Gionfriddo

(+) = Expected Retention Time

1 - FORM I
ANALYSIS DATA SHEET

CG-2

Laboratory:	Pace New England			SDG:	24E1437
Client:	NYS Division of Environmental Rer			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-02RE1	File ID:	H24E127046.d
Sampled:	05/08/24 10:40	Prepared:	05/10/24 15:22	Analyzed:	05/14/24 17:52
Solids:	62.99	Preparation:	SW-846 3546	Dilution:	10
Batch:	B374053	Sequence:	S104592	Calibration:	2400548
Instrument:	ECD 8				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
7421-93-4	Endrin Aldehyde		0.029	0.12	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127046.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 5:52 pm
Operator : PJG
Sample : 24E1437-02RE1@10X FLOR Inst : ECD 8
Misc :
ALS Vial : 46 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 16 09:09:24 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
		System Monitoring Compounds							
1)	S	Tetrachlo...	2.905	2.768	366.4E6	269.0E6	13.341	13.446	
24)	S	Decachlor...	7.055	7.096	278.5E6	211.1E6	12.545m	13.297m	
		Target Compounds							
2)	T	Hexachlor...	3.225	3.136	24704083	12160689	0.820	0.548	#
3)	T	alpha-BHC	3.350f	3.229f	1481737	2961240	0.036	0.104	#
4)	T	gamma-BHC	0.000	0.000	0	0	N.D.	N.D.	
5)	T	Beta-BHC	3.675f	0.000	10336915	0	0.645	N.D.	#
6)	T	Delta-BHC	3.853	0.000	7471475	0	0.212	N.D.	#
7)	T	Heptachlor	3.996f	0.000	3371956	0	0.094	N.D.	#
8)	T	Aldrin	4.259	4.114f	1565803	13513861	0.044	0.527	#
9)	T	Alachlor	4.388	4.063	1683648	3506987	0.396	1.194	#
10)	T	Heptachlo...	4.754	4.593	1780731	2783477	0.056	0.121	#
11)	T	Y-Chlordane	4.835f	4.743	17062552	8002406	0.501	0.336	#
12)	T	A-Chlordane	4.986f	4.861	4623911	6165466	0.146	0.269	#
13)	T	4,4-DDE	5.023	5.004	16846628	13022832	0.543	0.570	
14)	T	Endo-I	5.087	4.932f	1438307	1566322	0.049	0.074	#
15)	T	Dieldrin	5.266	5.112f	8226575	6982726	0.249	0.296	
16)	T	Endrin	5.492f	5.390f	18553636	1276545	0.667	0.064	#
17)	T	4,4-DDD	0.000	0.000	0	0	N.D.	N.D.	
18)	T	Endo-II	5.639f	5.576f	1063533	7200125	0.039	0.361	#
19)	T	4,4-DDT	5.744	5.731	5777747	12120204	0.217	0.627	#
20)	T	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d	
21)	T	Methoxychlor	6.115	6.257	2800369	3317556	0.200	0.320	#
22)	T	End Sulf	6.331f	6.034	9859779	2540331	0.386	0.135	#
23)	T	Endrin Ke...	0.000	6.414	0	6167141	N.D.	0.283	#
25)	L8	Chlordane{1}	3.947	0.000	1955734	0	1.591	N.D.	#
26)	L8	Chlordane{2}	3.996f	0.000	3371956	0	1.972	N.D.	#
27)	L8	Chlordane{3}	4.388	4.262	1683648	1974403	1.154	1.954	#
28)	L8	Chlordane{4}	4.835f	4.818	17062552	7801337	3.490	2.085	#
29)	L8	Chlordane{5}	5.609	4.861	4672672	6165466	3.690	2.370	#
		Sum Chlordane			28746562	15941207	11.897	6.409	
		Average Chlordane					2.379	2.136	
30)	H	Toxaphene	5.751	5.623	1234.3E6	781.8E6	56.132	45.949	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

End Alo Only

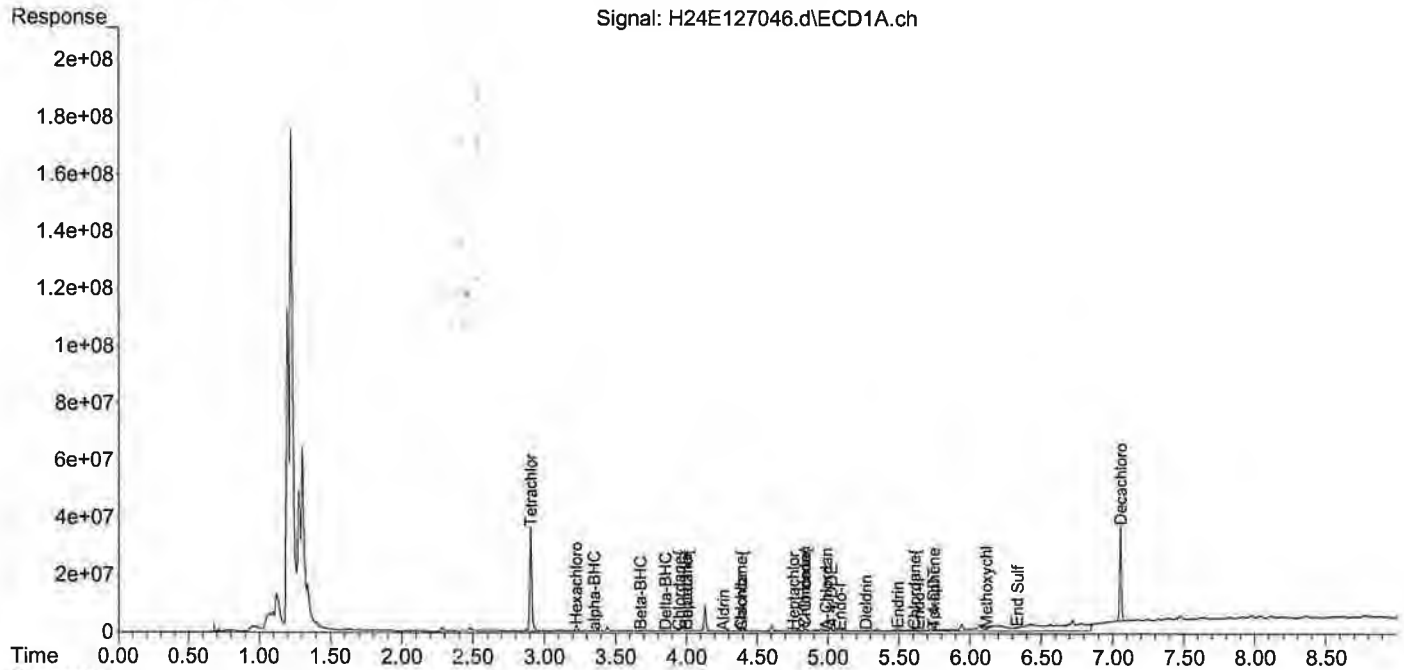
CHECKED BY:
MAY 16 2024
Todd Glonfridde

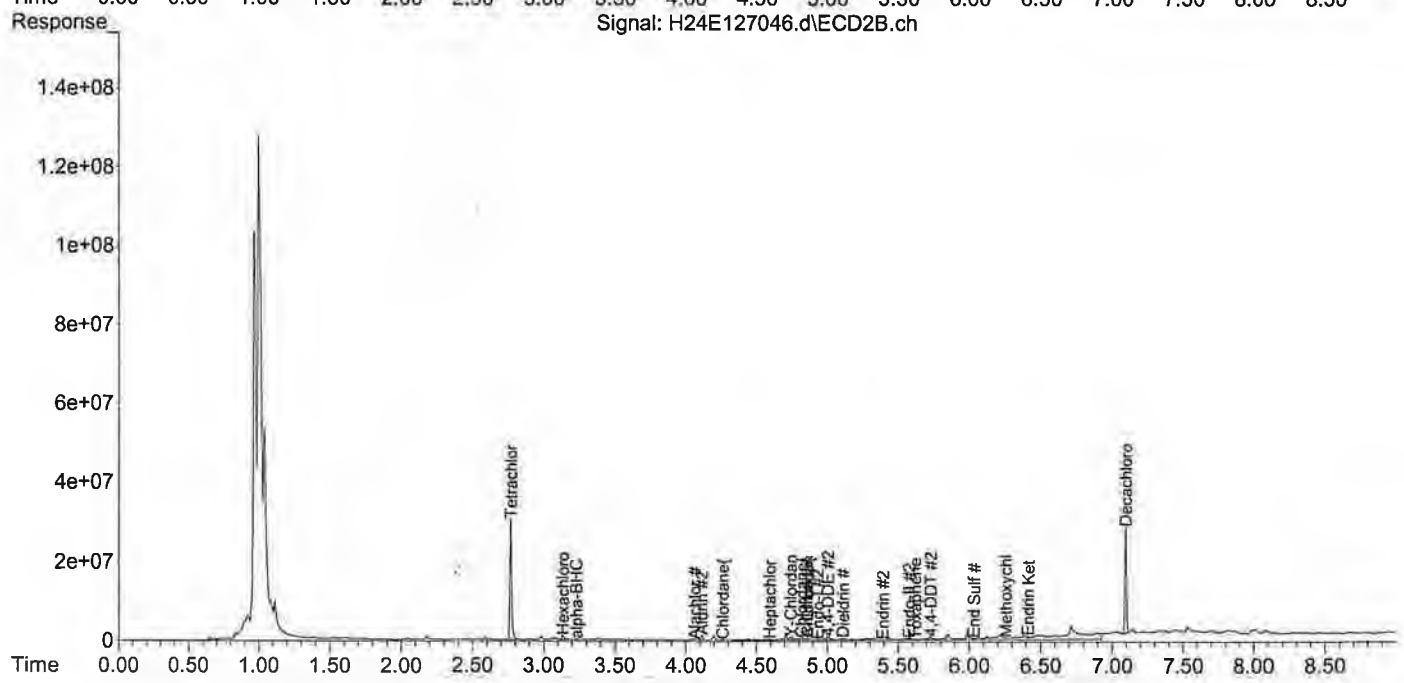
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127046.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 5:52 pm
Operator : PJG
Sample : 24E1437-02RE1@10X FLOR Inst : ECD 8
Misc :
ALS Vial : 46 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 16 09:09:24 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



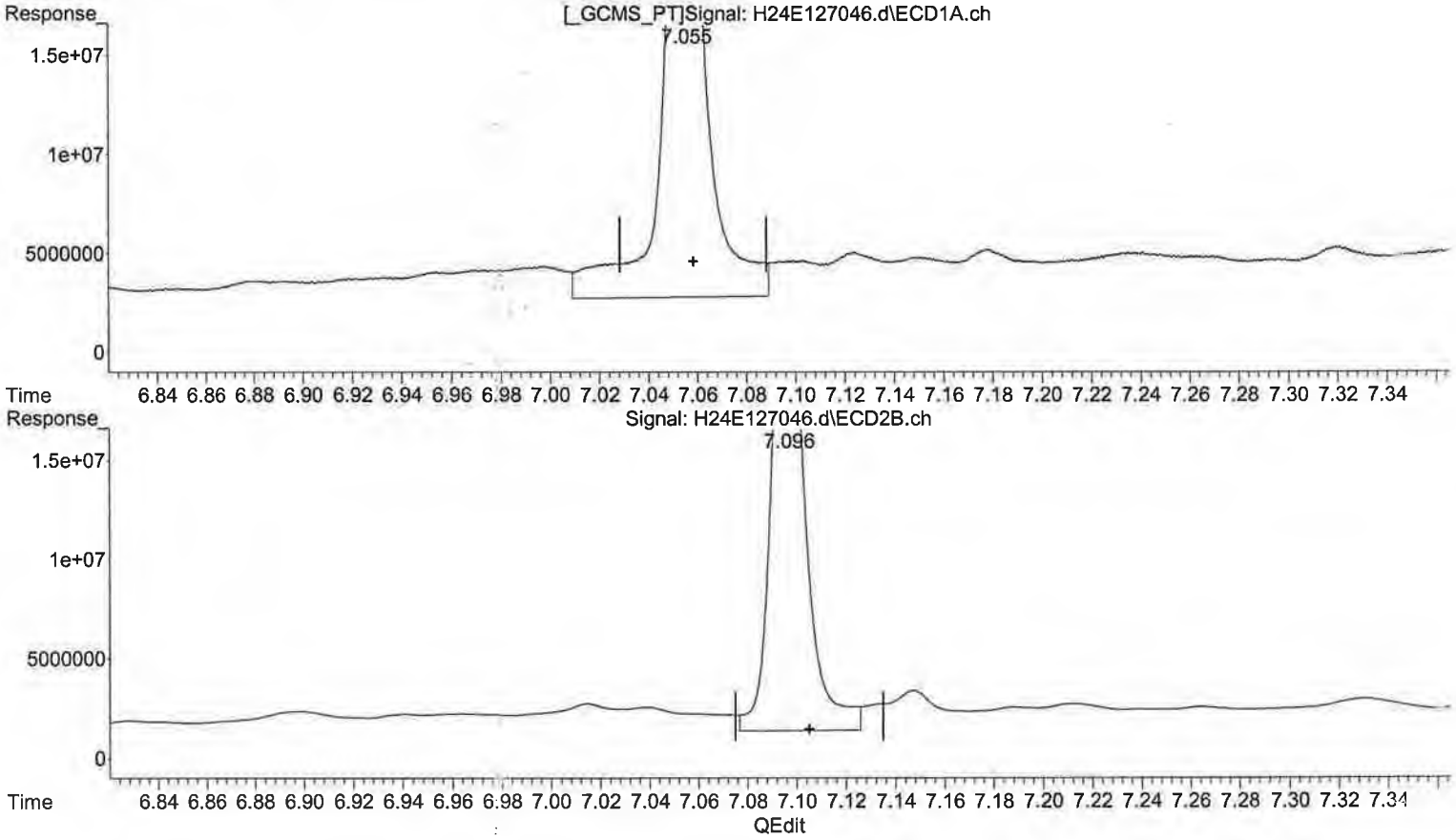


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127046.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 5:52 pm
Operator : PJG
Sample : 24E1437-02RE1@10X FLOR Inst : ECD 8
Misc :
ALS Vial : 46 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:22:39 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(24) Decachlorobiphenyl (S)
7.055min 16.071 ug/L
response 356762332

(24) Decachlorobiphenyl #2 (S)
7.096min 15.001 ug/L
response 238145884

CHECKED BY:
MAY 16 2024
Todd Gionfriddo

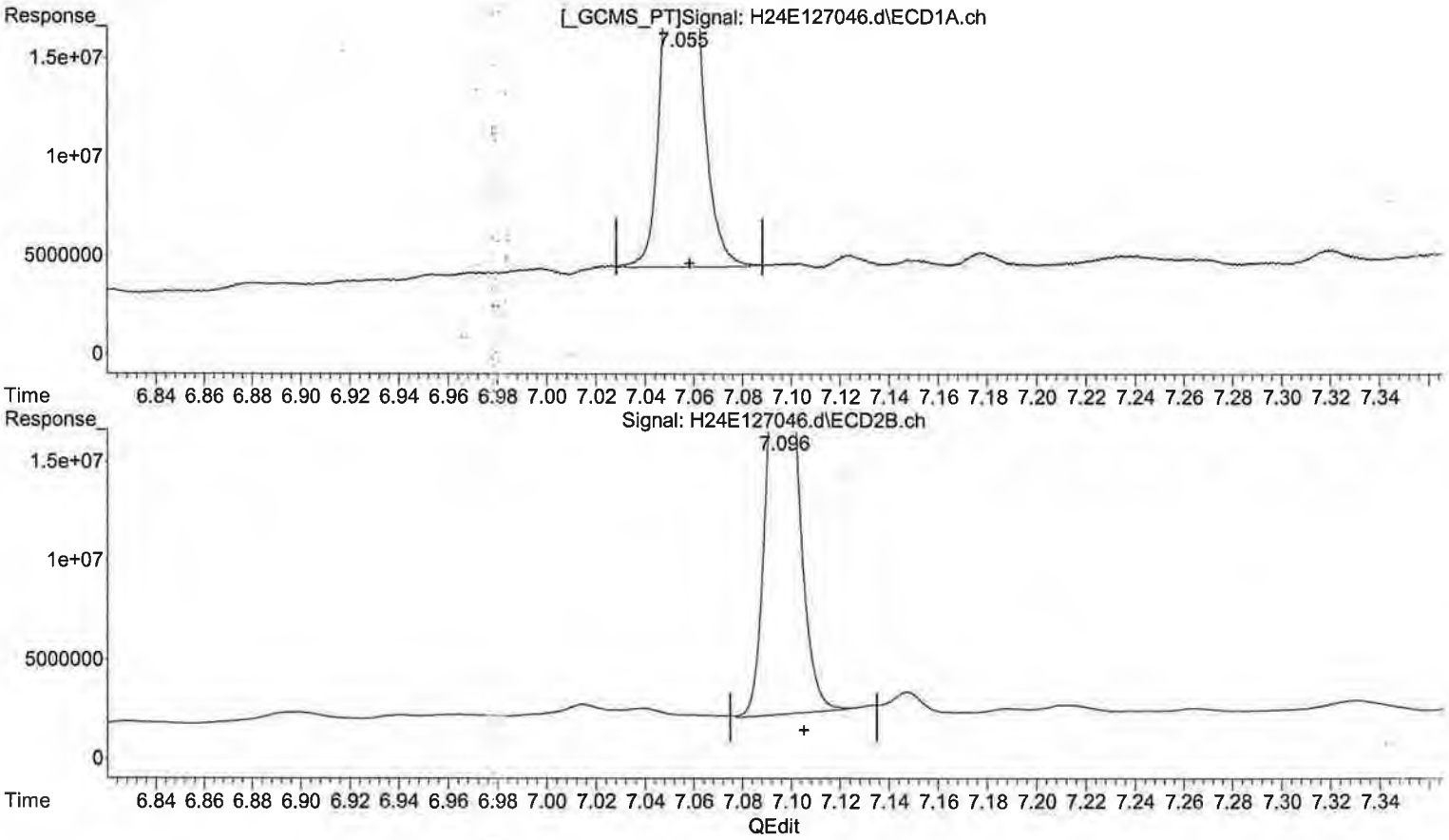
(+) = Expected Retention Time
8PEST051424C.M Thu May 16 09:09:19 2024

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127046.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 5:52 pm
Operator : PJG
Sample : 24E1437-02RE1@10X FLOR Inst : ECD 8
Misc :
ALS Vial : 46 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:22:39 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(24) Decachlorobiphenyl (S)

7.055min 12.545 ug/L m

response 278489404

(24) Decachlorobiphenyl #2 (S)

7.096min 13.297 ug/L m

response 211104391

CHECKED BY:

MAY 16 2024

Todd Gionfriddo

(+) = Expected Retention Time

1 - FORM I
ANALYSIS DATA SHEET

B1A

Laboratory:	Pace New England			SDG:	24E1437
Client:	NYS Division of Environmental Rer			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-04	File ID:	H24E127031.d
Sampled:	05/08/24 13:27	Prepared:	05/10/24 15:22	Analyzed:	05/14/24 14:53
Solids:	85.55	Preparation:	SW-846 3546	Dilution:	20
Batch:	B374053	Sequence:	S104592	Calibration:	2400548
Instrument:	ECD 8				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
5103-71-9	alpha-Chlordane		0.051	0.11	
5103-74-2	gamma-Chlordane		0.047	0.11	
309-00-2	Aldrin		0.011	0.11	
319-84-6	alpha-BHC		0.052	0.11	
319-85-7	beta-BHC		0.058	0.11	
319-86-8	delta-BHC		0.058	0.11	
58-89-9	gamma-BHC (Lindane)		0.015	0.044	
72-54-8	4,4'-DDD		0.019	0.087	
72-55-9	4,4'-DDE		0.0096	0.087	
50-29-3	4,4'-DDT [2C]	0.021	0.012	0.087	J
60-57-1	Dieldrin		0.010	0.087	
959-98-8	Endosulfan I		0.052	0.11	
33213-65-9	Endosulfan II		0.047	0.17	
1031-07-8	Endosulfan Sulfate		0.042	0.17	
72-20-8	Endrin		0.055	0.17	
53494-70-5	Endrin Ketone		0.044	0.17	
76-44-8	Heptachlor		0.012	0.11	
1024-57-3	Heptachlor Epoxide		0.013	0.11	
72-43-5	Methoxychlor [2C]		0.11	1.1	
8001-35-2	Toxaphene		0.91	2.2	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127031.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 2:53 pm
Operator : PJG
Sample : 24E1437-04@20X FLOR TBA Inst : ECD 8
Misc :
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 16 08:49:18 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
		System Monitoring Compounds						
1)	S	Tetrachlo...	2.905	2.768	251.8E6	181.0E6	9.171	9.049
24)	S	Decachlor...	7.054	7.096	191.7E6	145.4E6	8.634m	9.160m
		Target Compounds						
2)	T	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
3)	T	alpha-BHC	0.000	0.000	0	0	N.D.	N.D.
4)	T	gamma-BHC	0.000	0.000	0	0	N.D.	N.D.
5)	T	Beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6)	T	Delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	T	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
8)	T	Aldrin	0.000	0.000	0	0	N.D.	N.D.
9)	T	Alachlor	0.000	0.000	0	0	N.D.	N.D.
10)	T	Heptachlo...	0.000	0.000	0	0	N.D.	N.D.
11)	T	Y-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
12)	T	A-Chlordane	0.000	0.000	0	0	N.D.	N.D.
13)	T	4,4-DDE	5.024	5.003	15767212	13085129	~~0.508m~~	~~0.573m~~
14)	T	Endo-I	0.000	0.000	0	0	N.D.	N.D.
15)	T	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
16)	T	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
17)	T	4,4-DDD	5.515	5.472f	9991683	6496735	~~0.390m~~	~~0.348m~~
18)	T	Endo-II	0.000	0.000	0	0	N.D. d	N.D. d
19)	T	4,4-DDT	5.745	5.729	25351259	18477002	0.950m	0.956m
20)	T	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
21)	T	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
22)	T	End Sulf	0.000	0.000	0	0	N.D. d	N.D. d
23)	T	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
25)	L8	Chlordane{1}	0.000	0.000	0	0	N.D. d	N.D. d
26)	L8	Chlordane{2}	0.000	0.000	0	0	N.D. d	N.D. d
27)	L8	Chlordane{3}	0.000	0.000	0	0	N.D. d	N.D. d
28)	L8	Chlordane{4}	0.000	0.000	0	0	N.D. d	N.D. d
29)	L8	Chlordane{5}	0.000	0.000	0	0	N.D. d	N.D. d
		Sum Chlordane			0	0	N.D.	N.D.
		Average Chlordane					0.000	0.000
30)	H	Toxaphene	0.000	0.000	0	0	N.D. d	N.D. d

BDL

BDL

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

CHECKED BY:

MAY 16 2024

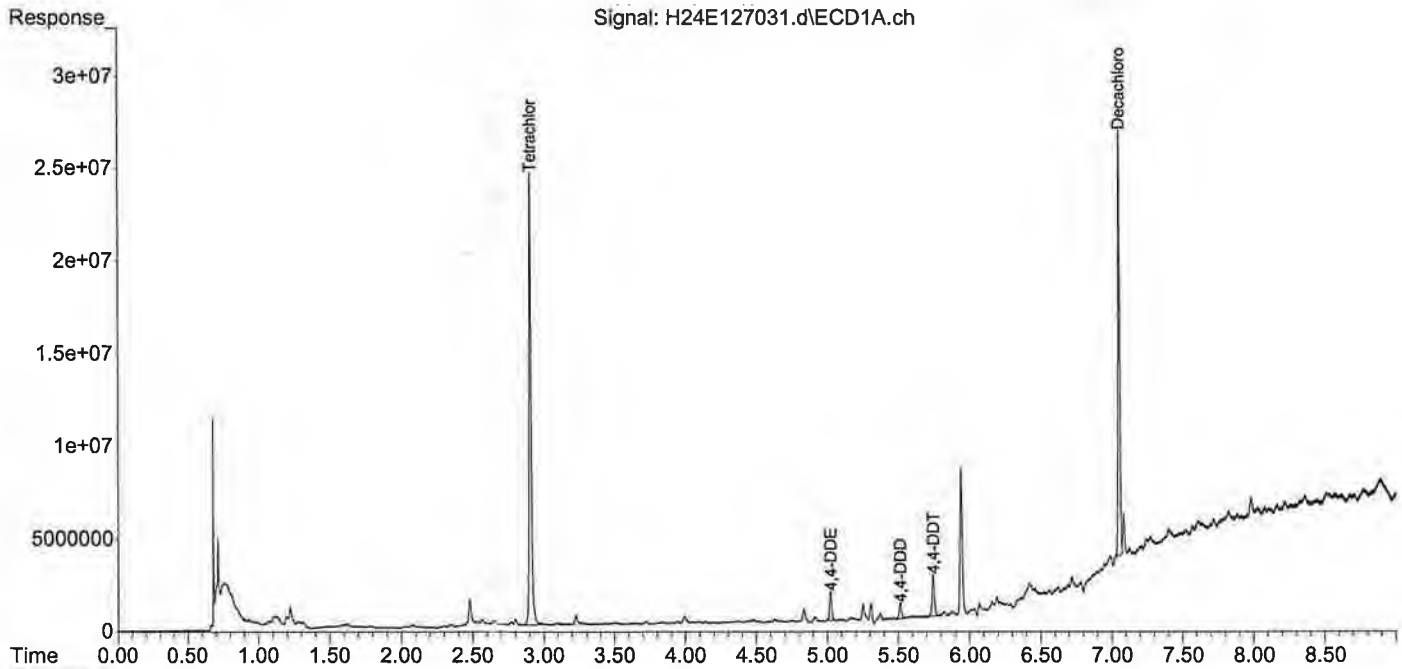
Todd Gionfriddo

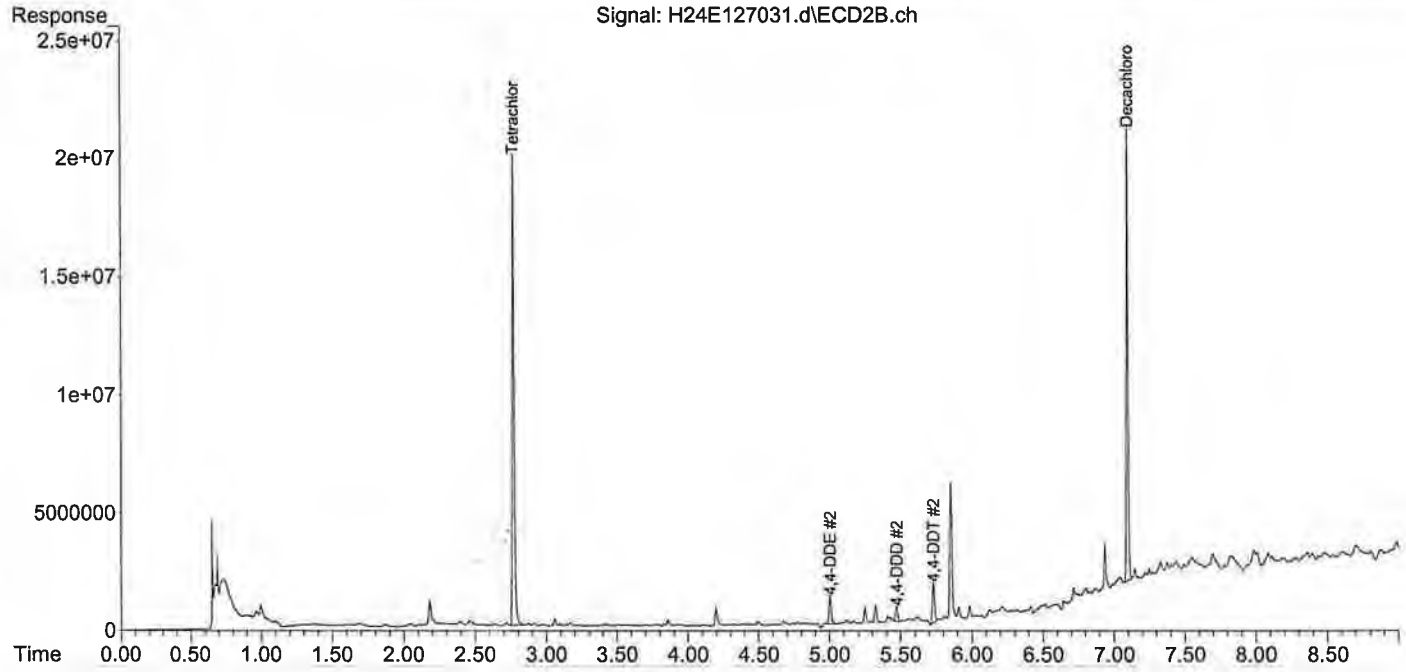
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127031.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 2:53 pm
Operator : PJG
Sample : 24E1437-04@20X FLOR TBA Inst : ECD 8
Misc :
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 16 08:49:18 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



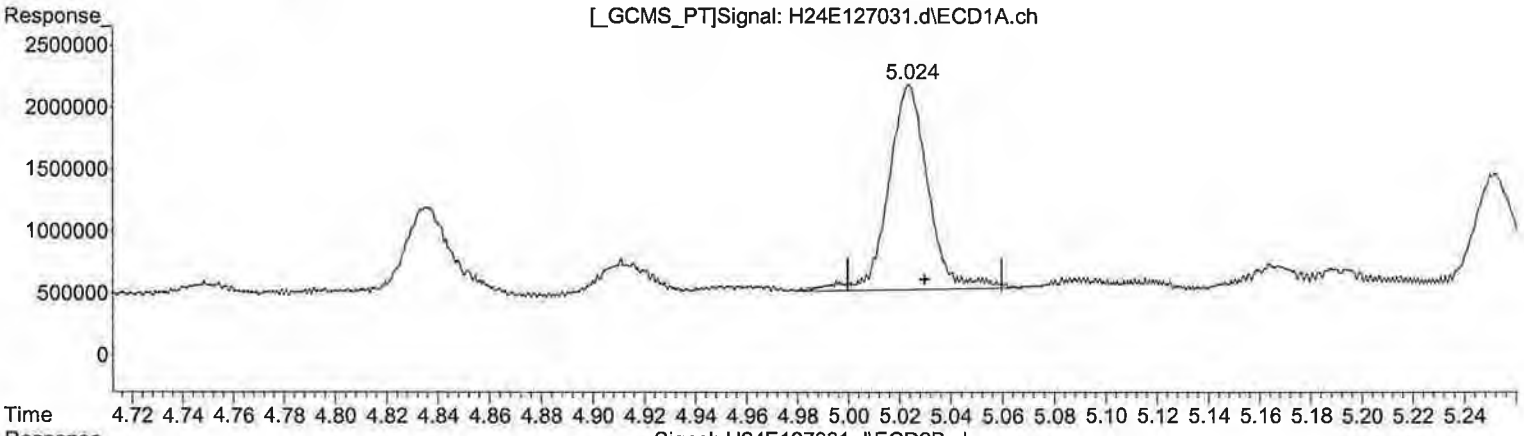


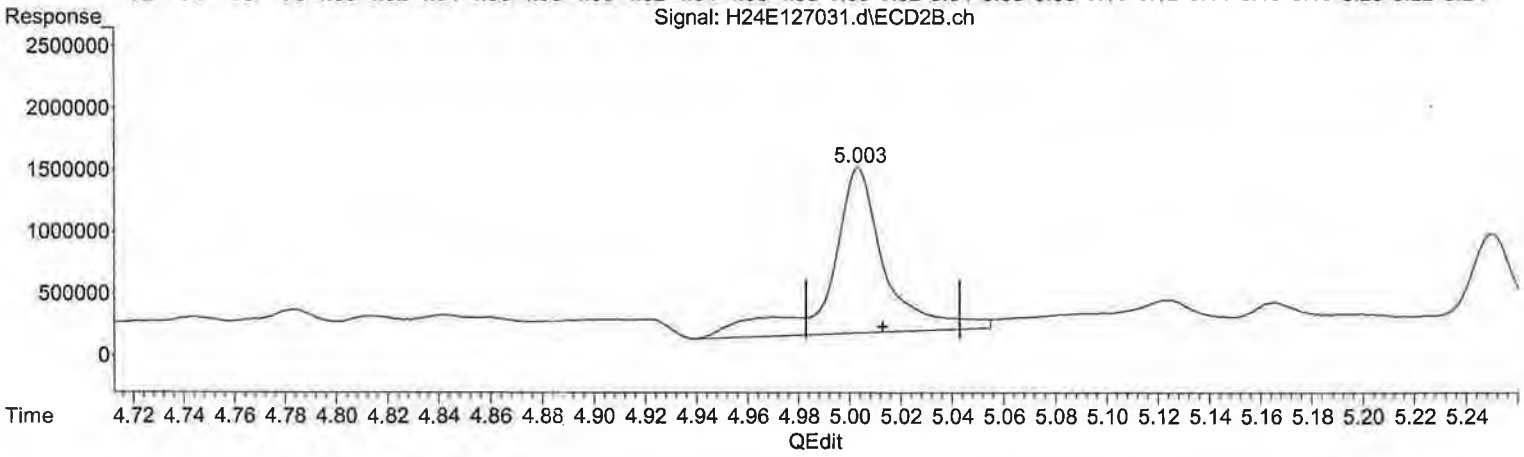
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127031.d
Signal(s) : Signal #1: ECD1A.ch , Signal #2: ECD2B.ch
Acq On : 14 May 2024 2:53 pm
Operator : PJG
Sample : 24E1437-04@20X FLOR TBA Inst : ECD 8
Misc :
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:12:10 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





(13) 4,4-DDE (T)
5.024min 0.573 ug/L
response 17784323

(13) 4,4-DDE #2 (T)
5.003min 0.878 ug/L
response 20050002

CHECKED BY:
MAY 16 2024
Todd Gionfriddo

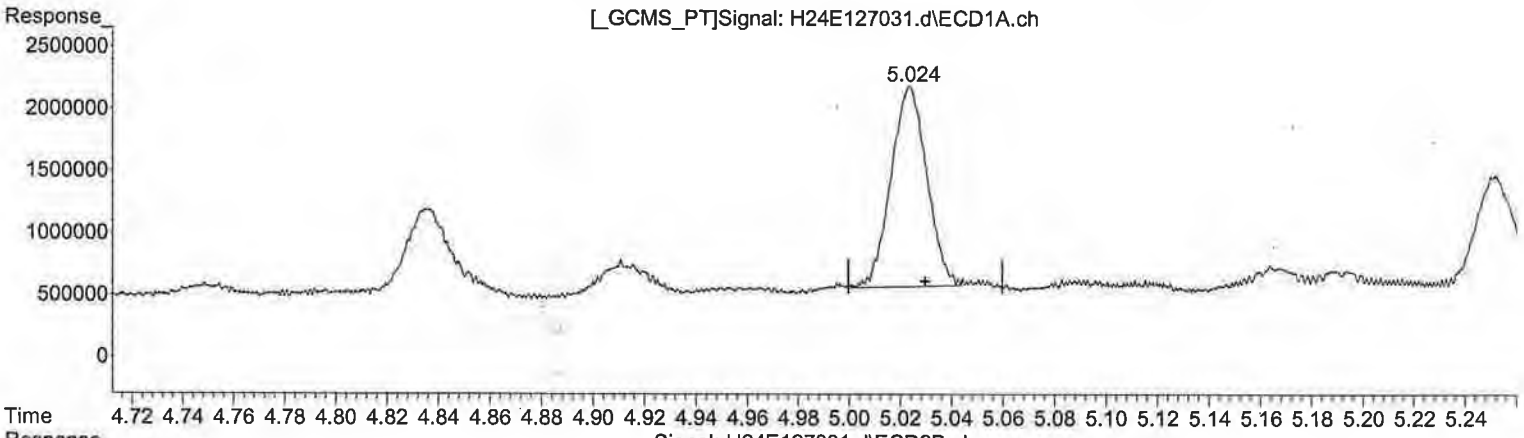
(+) = Expected Retention Time
8PEST051424C.M Thu May 16 08:48:14 2024

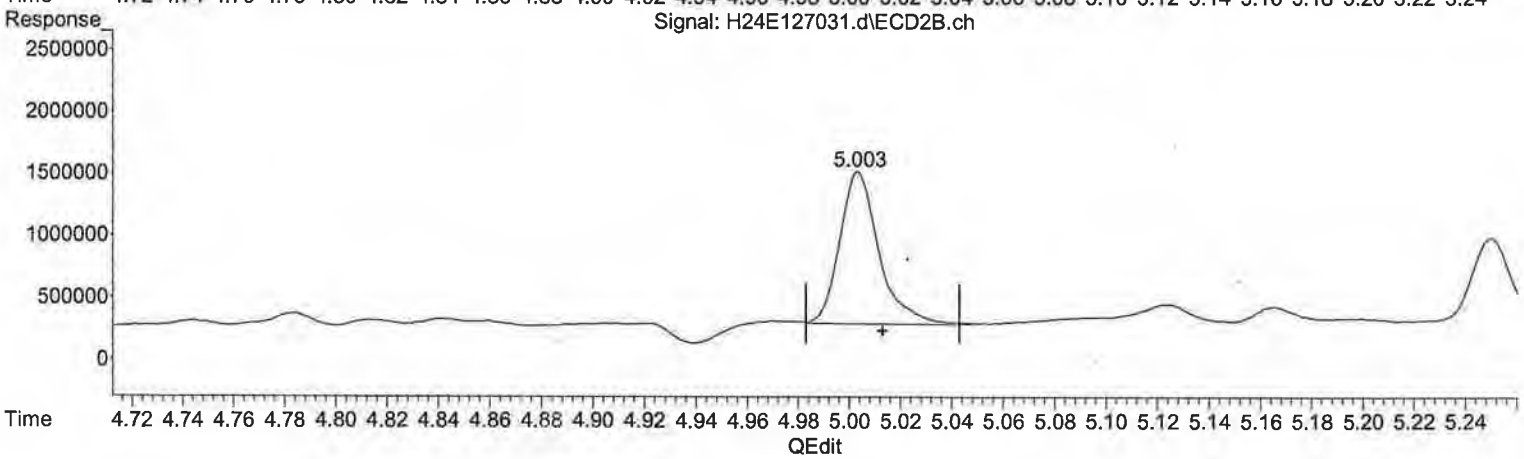
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127031.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 2:53 pm
Operator : PJG
Sample : 24E1437-04@20X FLOR TBA Inst : ECD 8
Misc :
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:12:10 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





(13) 4,4-DDE (T)

5.024min 0.508 ug/L m

response 15767212

(13) 4,4-DDE #2 (T)

5.003min 0.573 ug/L m

response 13085129

CHECKED BY:

MAY 16 2024

Todd Glonfridde

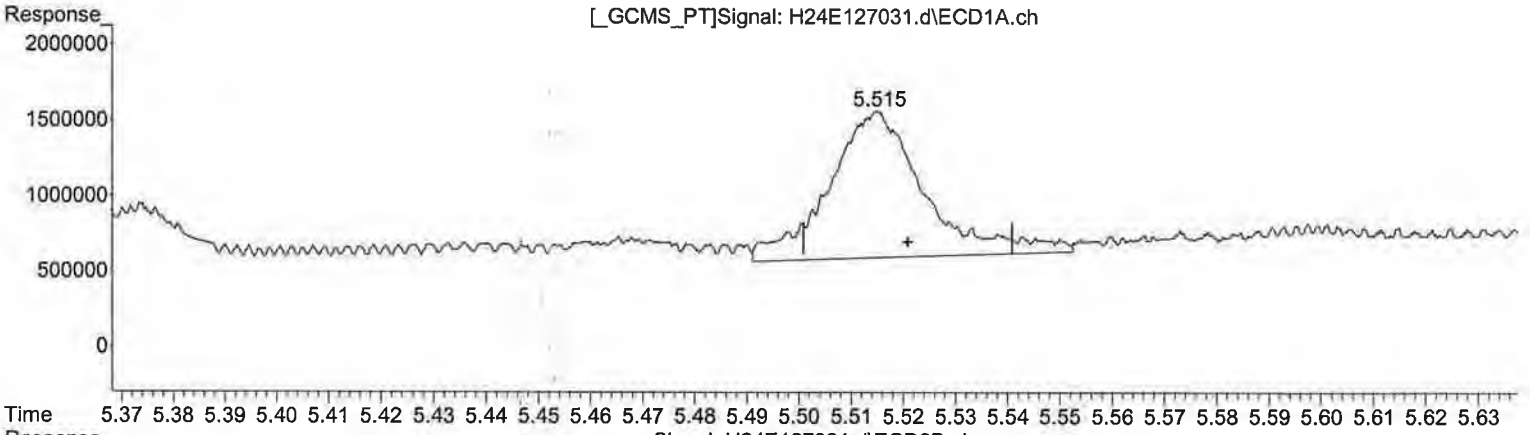
(+) = Expected Retention Time

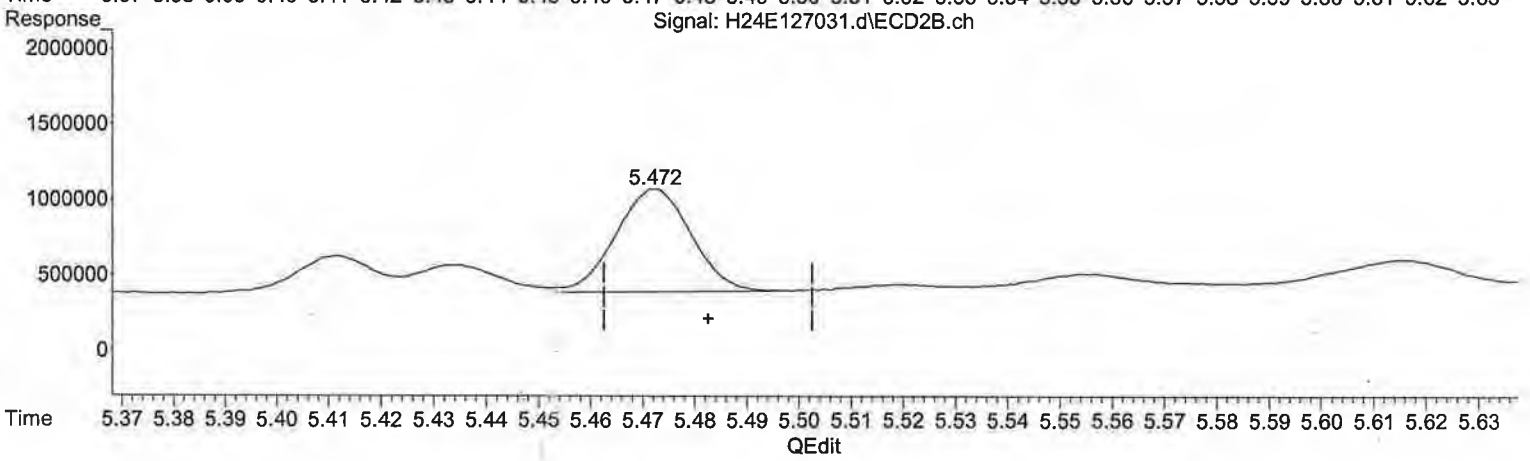
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127031.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 2:53 pm
Operator : PJG
Sample : 24E1437-04@20X FLOR TBA Inst : ECD 8
Misc :
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:12:10 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





(17) 4,4-DDD (T)
5.515min 0.484 ug/L
response 12392238

(17) 4,4-DDD #2 (T)
5.473min 0.367 ug/L
response 6835273

CHECKED BY:
MAY 16 2024
Todd Gionfriddo

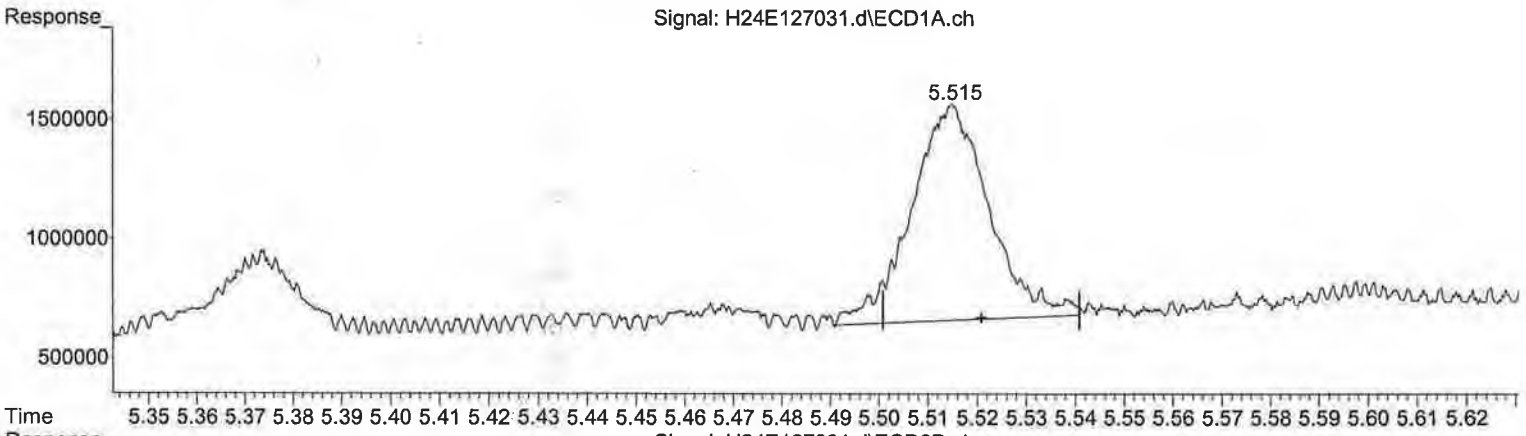
(+) = Expected Retention Time
8PEST051424C.M Thu May 16 08:48:31 2024

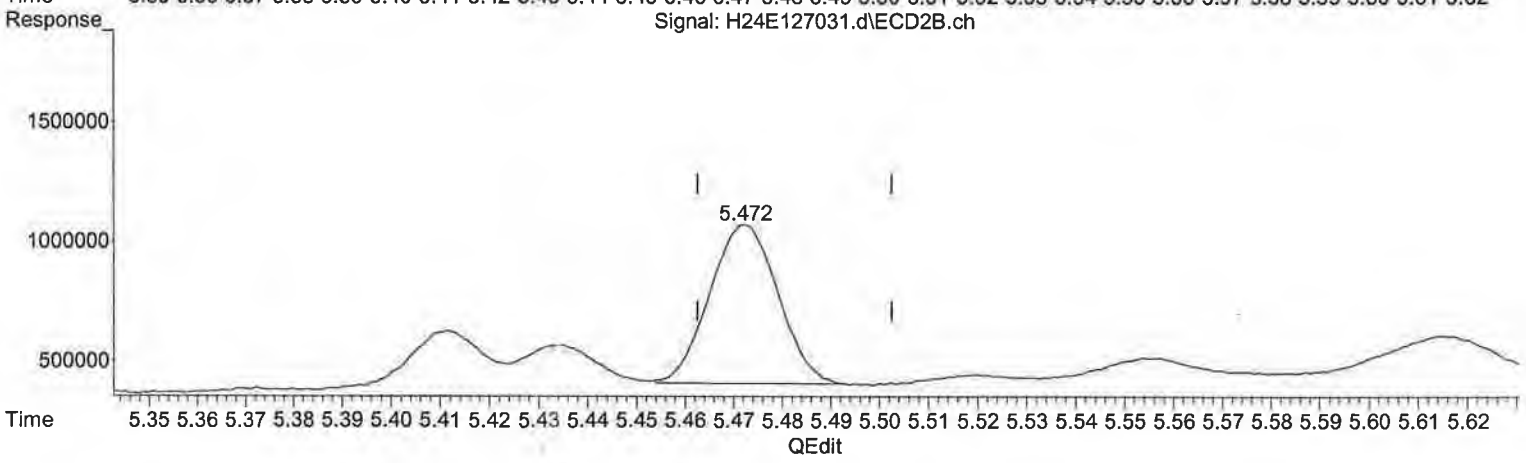
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127031.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 2:53 pm
Operator : PJG
Sample : 24E1437-04@20X FLOR TBA Inst : ECD 8
Misc :
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:12:10 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





(17) 4,4-DDD (T)

5.515min 0.390 ug/L m

response 9991683

(17) 4,4-DDD #2 (T)

5.472min 0.348 ug/L m

response 6496735

CHECKED BY:

MAY 16 2024

Todd Gionfriddo

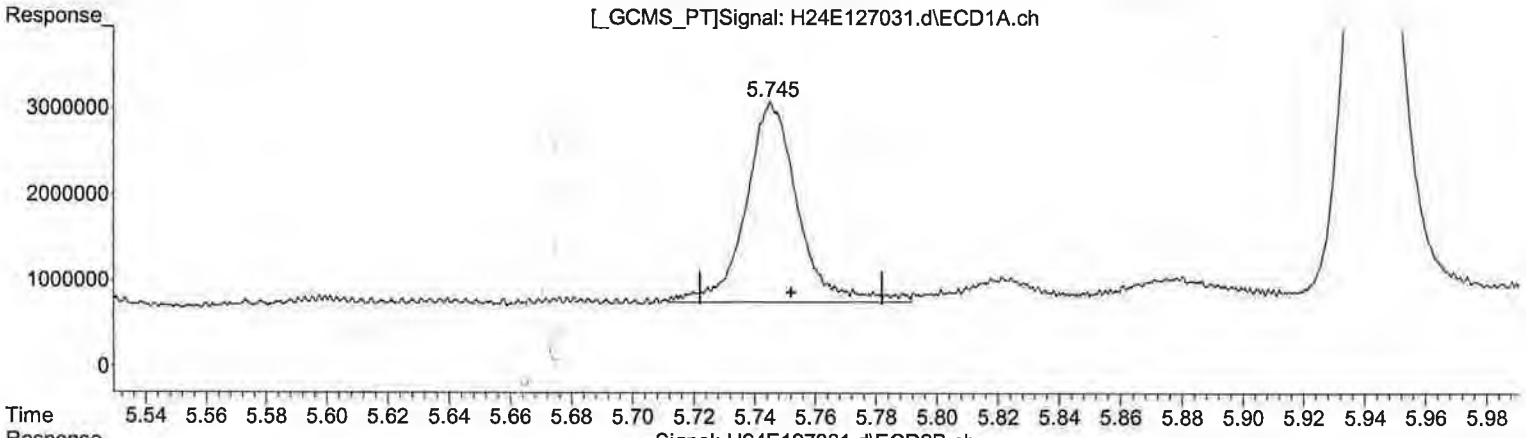
(+) = Expected Retention Time

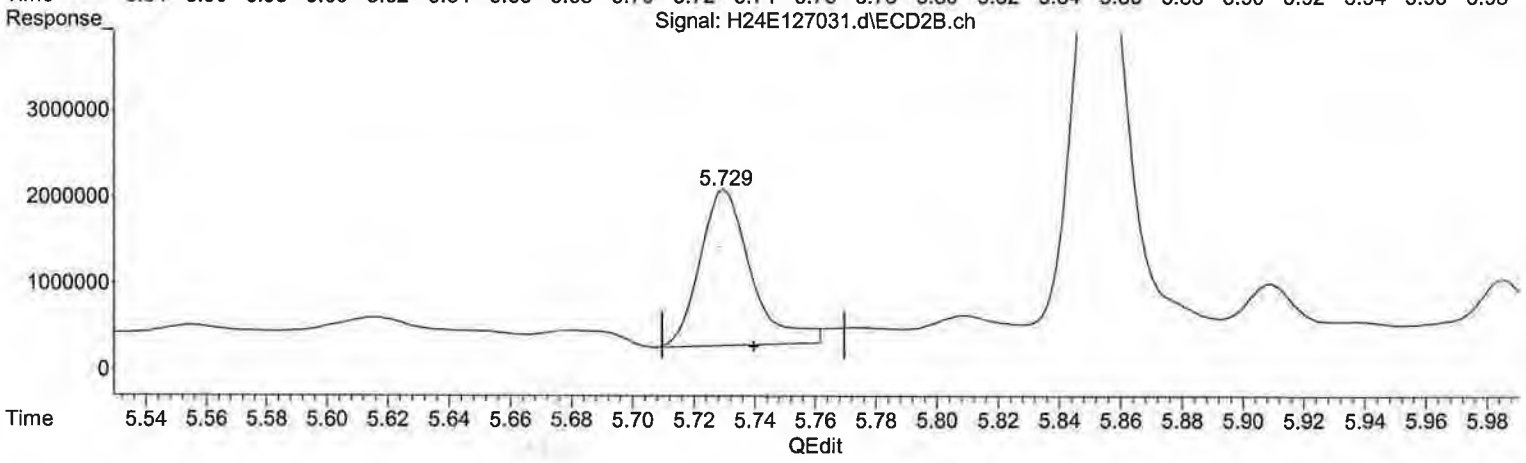
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127031.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 2:53 pm
Operator : PJG
Sample : 24E1437-04@20X FLOR TBA Inst : ECD 8
Misc :
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:12:10 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





(19) 4,4-DDT (T)

5.745min 1.040 ug/L

response 27735171

(19) 4,4-DDT #2 (T)

5.730min 1.086 ug/L

response 20999189

CHECKED BY:

MAY 16 2024

Todd Gionfriddo

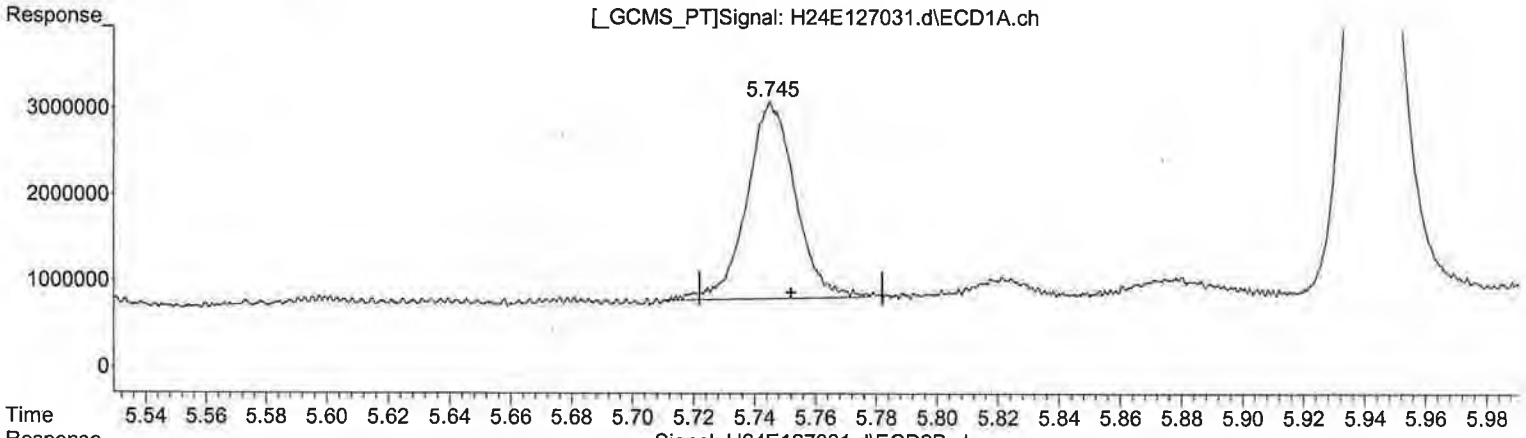
(+) = Expected Retention Time

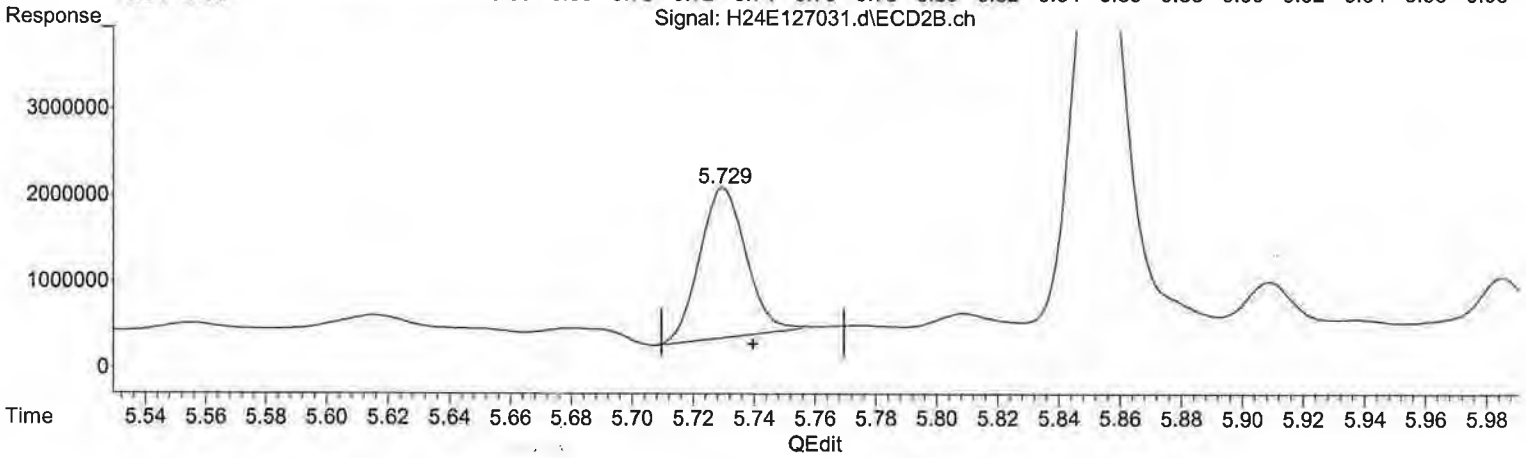
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127031.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 2:53 pm
Operator : PJG
Sample : 24E1437-04@20X FLOR TBA Inst : ECD 8
Misc :
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:12:10 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





(19) 4,4-DDT (T)

5.745min 0.950 ug/L m

response 25351259

(19) 4,4-DDT #2 (T)

5.729min 0.956 ug/L m

response 18477002

CHECKED BY:
MAY 16 2024
Todd Gionfriddo

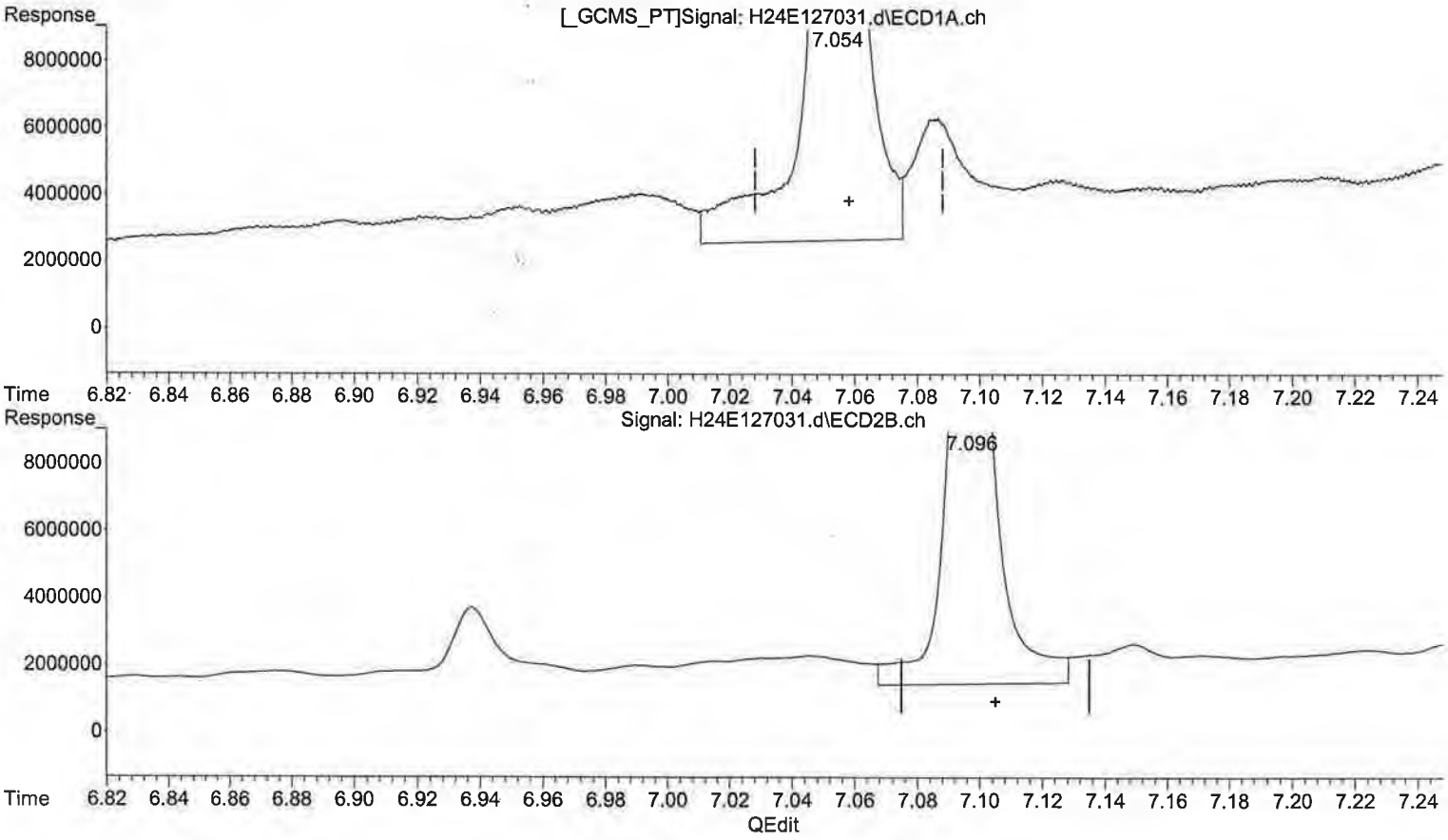
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127031.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 2:53 pm
Operator : PJG
Sample : 24E1437-04@20X FLOR TBA Inst : ECD 8
Misc :
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:12:10 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(24) Decachlorobiphenyl (S)

7.055min 11.004 ug/L

response 244270420

(24) Decachlorobiphenyl #2 (S)

7.097min 10.728 ug/L

response 170315161

CHECKED BY:
MAY 16 2024
Todd Glonfridde

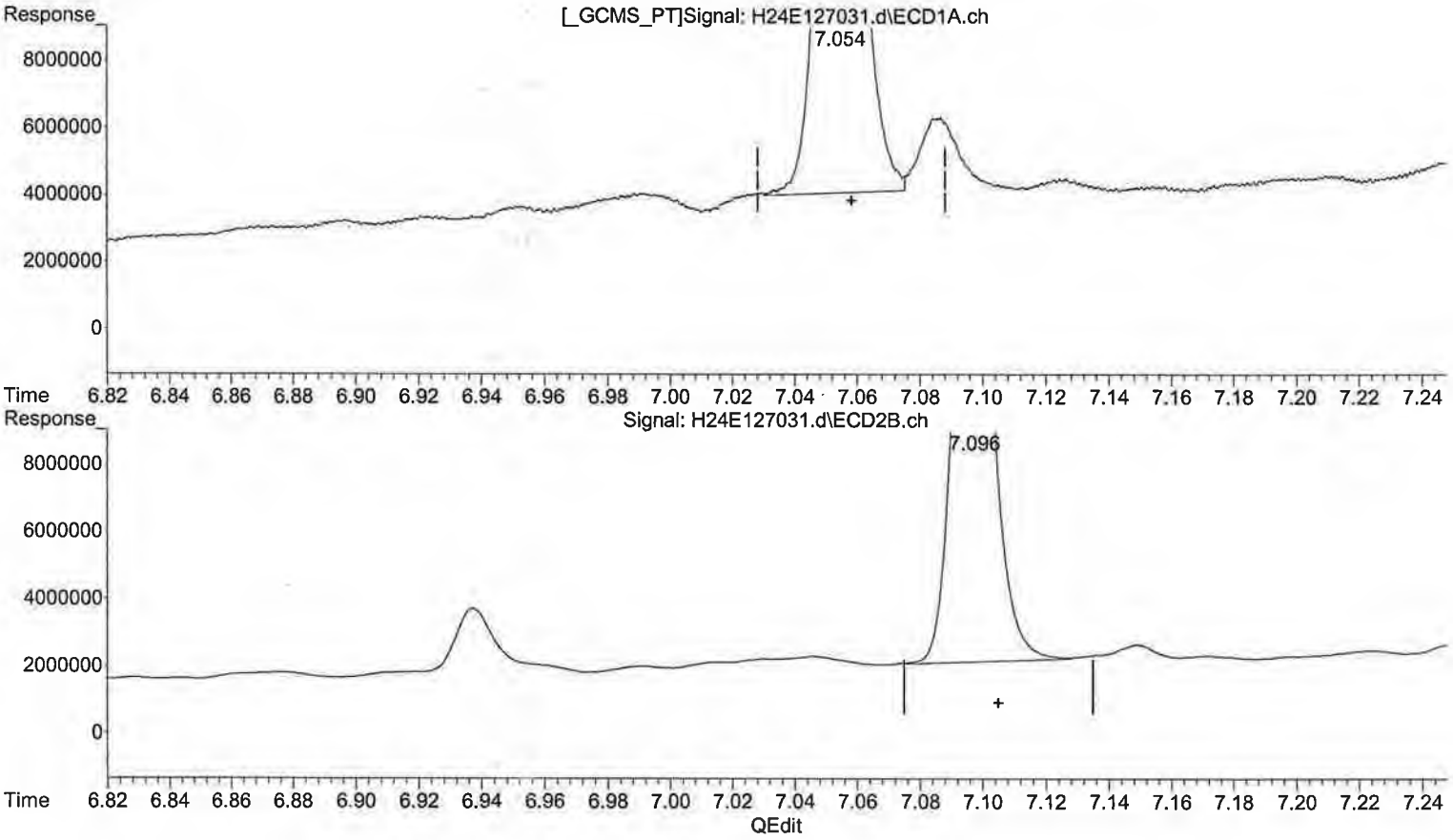
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127031.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 2:53 pm
Operator : PJG
Sample : 24E1437-04@20X FLOR TBA Inst : ECD 8
Misc :
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:12:10 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(24) Decachlorobiphenyl (S)

7.054min 8.634 ug/L m

response 191670372

(24) Decachlorobiphenyl #2 (S)

7.096min 9.160 ug/L m

response 145423310

CHECKED BY:

MAY 16 2024

Todd Glonfridde

(+) = Expected Retention Time

1 - FORM I
ANALYSIS DATA SHEET

B1A

Laboratory:	Pace New England			SDG:	24E1437
Client:	NYS Division of Environmental Rer			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-04RE1	File ID:	H24E127047.d
Sampled:	05/08/24 13:27	Prepared:	05/10/24 15:22	Analyzed:	05/14/24 18:04
Solids:	85.55	Preparation:	SW-846 3546	Dilution:	20
Batch:	B374053	Sequence:	S104592	Calibration:	2400548
Instrument:	ECD 8				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
7421-93-4	Endrin Aldehyde		0.043	0.17	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127047.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 6:04 pm
Operator : PJG
Sample : 24E1437-04RE1@20X FLOR Inst : ECD 8
Misc :
ALS Vial : 47 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 16 09:10:16 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
		System Monitoring Compounds							
1)	S	Tetrachlo...	2.905	2.769	255.7E6	184.9E6	9.309	9.241	
24)	S	Decachlor...	7.053	7.096	195.1E6	147.3E6	8.790m	9.279m	
		Target Compounds							
2)	T	Hexachlor...	3.230	3.165f	6876348	1206895	0.228	0.054	#
3)	T	alpha-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)	T	gamma-BHC	0.000	0.000	0	0	N.D.	N.D.	
5)	T	Beta-BHC	3.719f	3.628f	2688028	880045	0.168	0.078	#
6)	T	Delta-BHC	3.829	3.866f	3083249	1463152	0.087	0.057	#
7)	T	Heptachlor	3.991f	3.866f	1747557	1463152	0.049	0.057	
8)	T	Aldrin	0.000	0.000	0	0	N.D.	N.D.	
9)	T	Alachlor	0.000	0.000	0	0	N.D.	N.D.	
10)	T	Heptachlo...	0.000	0.000	0	0	N.D.	N.D.	
11)	T	Y-Chlordane	4.836f	0.000	9357583	0	0.275	N.D.	#
12)	T	A-Chlordane	0.000	0.000	0	0	N.D.	N.D.	
13)	T	4,4-DDE	5.023	5.003	18169684	14377234	0.585	0.629	
14)	T	Endo-I	0.000	0.000	0	0	N.D.	N.D.	
15)	T	Dieldrin	5.252f	5.124	11996636	1751709	0.363	0.074	#
16)	T	Endrin	5.468	0.000	910755	0	0.033	N.D.	#
17)	T	4,4-DDD	5.514	5.472f	11336844	7908353	0.443	0.424	
18)	T	Endo-II	0.000	0.000	0	0	N.D.	N.D.	
19)	T	4,4-DDT	5.746	5.729	28926724	20074013	1.084	1.038	
20)	T	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d	
21)	T	Methoxychlor	0.000	6.272	0	1211893	N.D.	0.117	#
22)	T	End Sulf	6.289f	6.034	1867717	1044444	0.073	0.056	
23)	T	Endrin Ke...	6.496	6.413	4072151	2191611	0.134	0.100	#
25)	L8	Chlordane{1}	0.000	0.000	0	0	N.D.	N.D.	
26)	L8	Chlordane{2}	3.991f	3.866f	1747557	1463152	1.022	1.166	
27)	L8	Chlordane{3}	0.000	0.000	0	0	N.D.	N.D.	
28)	L8	Chlordane{4}	4.836f	0.000	9357583	0	1.914	N.D.	#
29)	L8	Chlordane{5}	5.606	0.000	1392472	0	1.100	N.D.	#
		Sum Chlordane			12497612	1463152	4.035	1.166	
		Average Chlordane					1.345	1.166	
30)	H	Toxaphene	5.751	5.623	929.1E6	580.3E6	42.253	34.104	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

End Ald Only

CHECKED BY:

MAY 16 2024

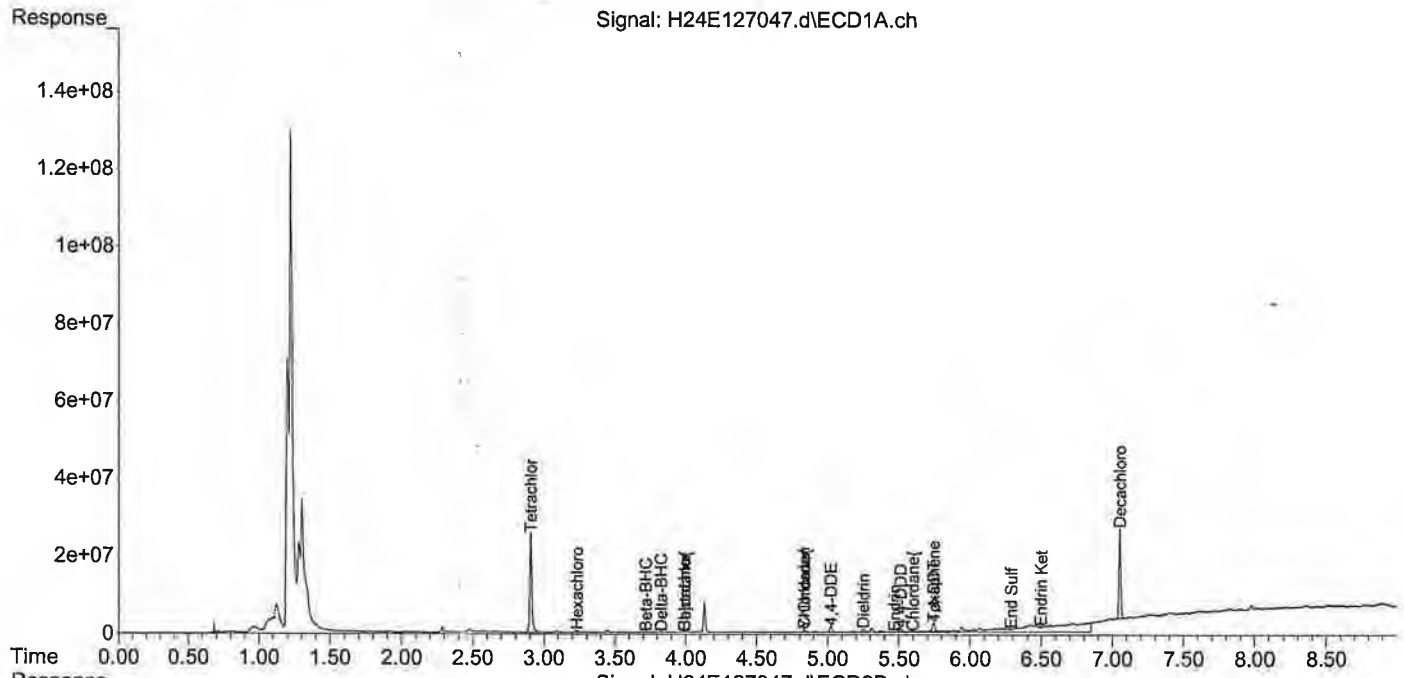
Todd Gionfriddo

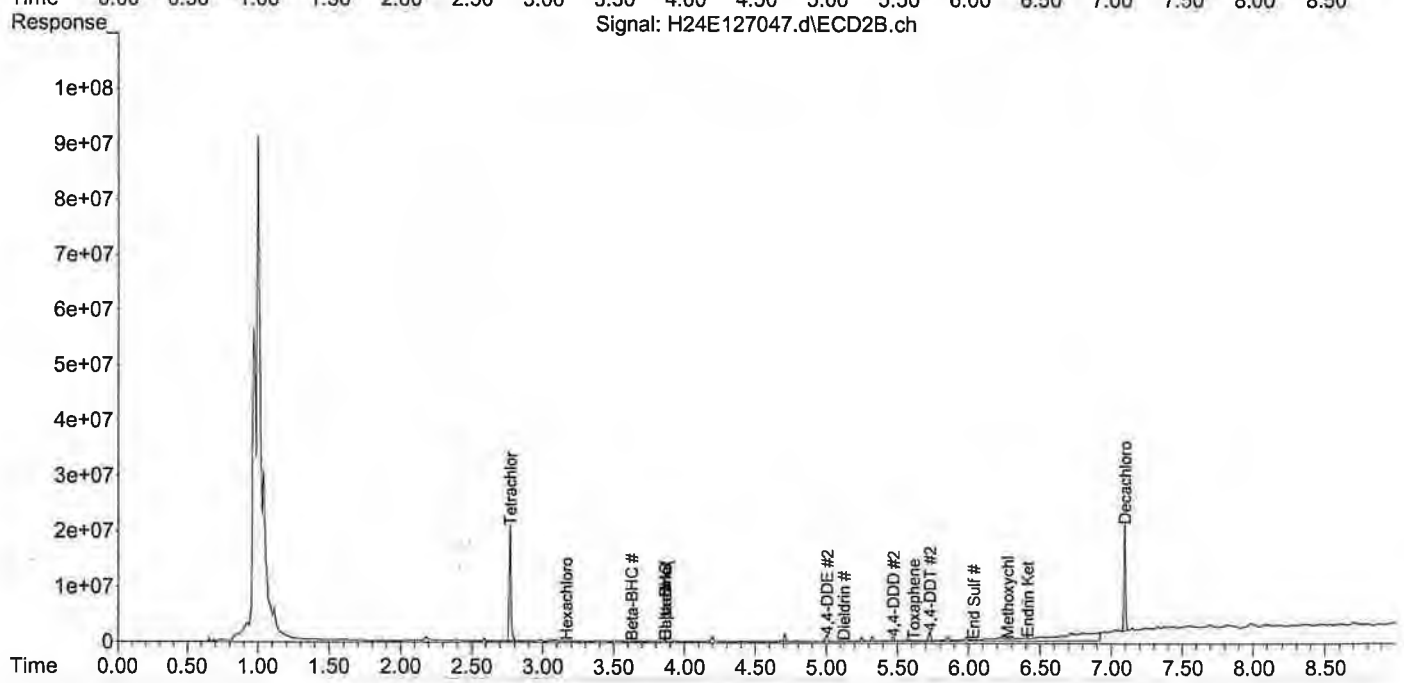
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127047.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 6:04 pm
Operator : PJG
Sample : 24E1437-04RE1@20X FLOR Inst : ECD 8
Misc :
ALS Vial : 47 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 16 09:10:16 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



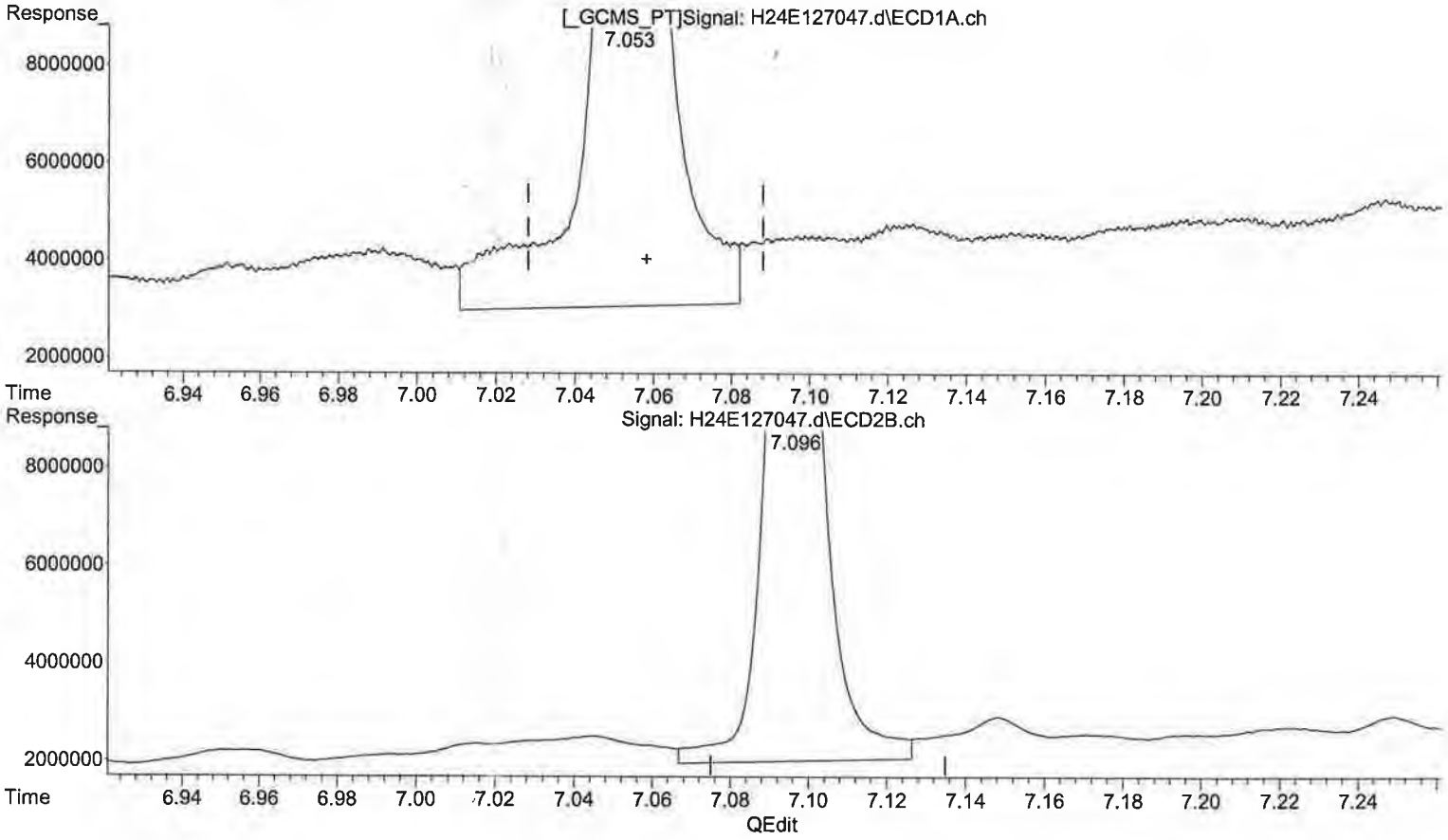


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127047.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 6:04 pm
Operator : PJG
Sample : 24E1437-04RE1@20X FLOR Inst : ECD 8
Misc :
ALS Vial : 47 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:22:51 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(24) Decachlorobiphenyl (S)

7.054min 11.132 ug/L

response 247108824

(24) Decachlorobiphenyl #2 (S)

7.096min 10.050 ug/L

response 159556432

CHECKED BY:

MAY 16 2024

Todd Glonfriddo

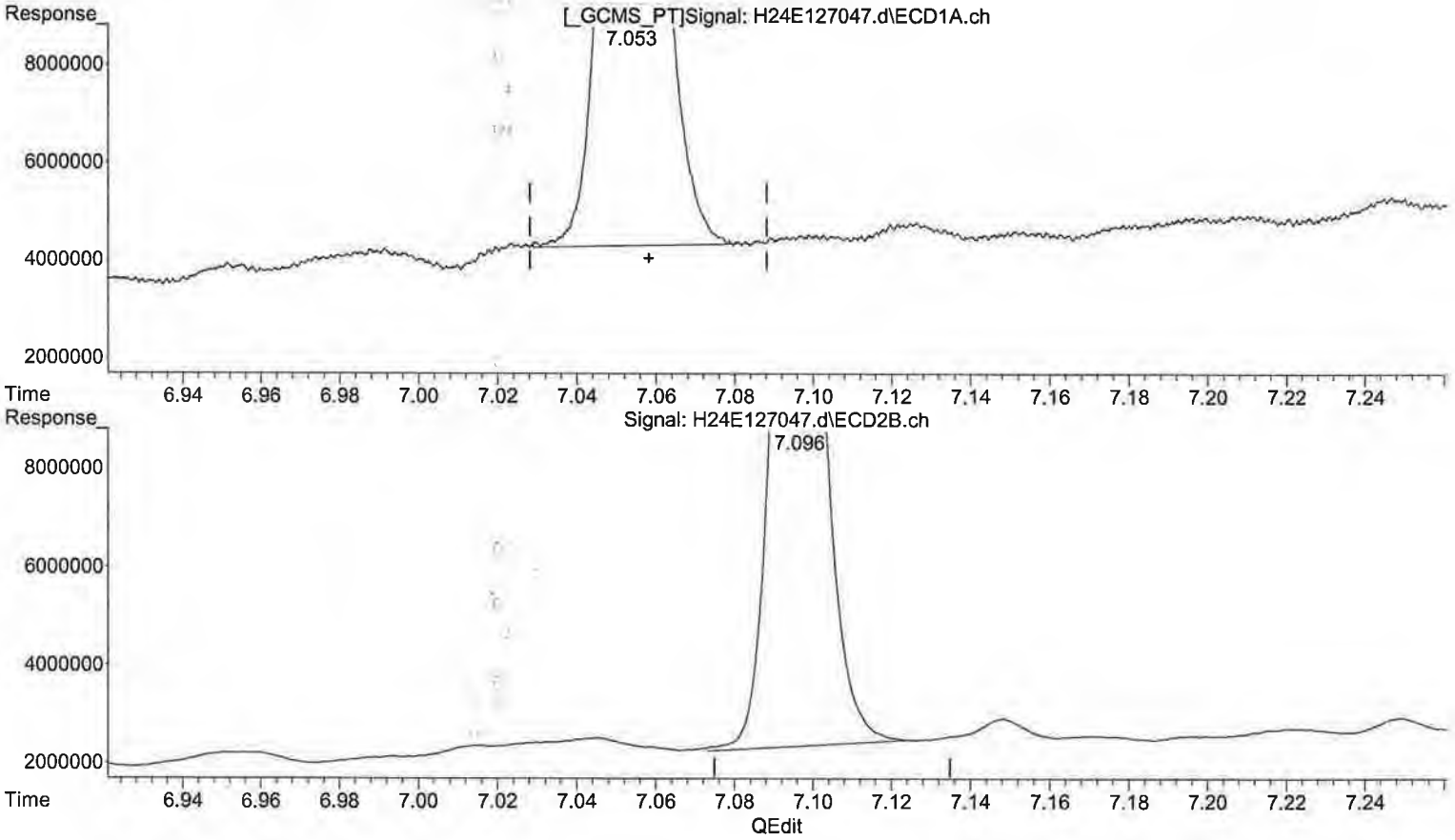
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127047.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 6:04 pm
Operator : PJG
Sample : 24E1437-04RE1@20X FLOR Inst : ECD 8
Misc :
ALS Vial : 47 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:22:51 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(24) Decachlorobiphenyl (S)

7.053min 8.790 ug/L m

response 195115415

(24) Decachlorobiphenyl #2 (S)

7.096min 9.279 ug/L m

response 147302349

4

CHECKED BY:

MAY 16 2024

Todd Gionfriddo

(+) = Expected Retention Time

1 - FORM I
ANALYSIS DATA SHEET

SB1A

Laboratory:	Pace New England			SDG:	24E1437
Client:	NYS Division of Environmental Rer			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-06	File ID:	H24E127032.d
Sampled:	05/08/24 14:19	Prepared:	05/10/24 15:22	Analyzed:	05/14/24 15:05
Solids:	72.51	Preparation:	SW-846 3546	Dilution:	1
Batch:	B374053	Sequence:	S104592	Calibration:	2400548
Instrument:	ECD 8				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
5103-71-9	alpha-Chlordane		0.0031	0.0066	
5103-74-2	gamma-Chlordane		0.0029	0.0066	
309-00-2	Aldrin		0.00065	0.0066	
319-84-6	alpha-BHC		0.0031	0.0066	
319-85-7	beta-BHC		0.0035	0.0066	
319-86-8	delta-BHC		0.0035	0.0066	
58-89-9	gamma-BHC (Lindane)		0.00092	0.0026	
72-54-8	4,4'-DDD		0.0011	0.0053	
72-55-9	4,4'-DDE		0.00058	0.0053	
50-29-3	4,4'-DDT		0.00068	0.0053	
60-57-1	Dieldrin		0.00063	0.0053	
959-98-8	Endosulfan I		0.0032	0.0066	
33213-65-9	Endosulfan II		0.0028	0.011	
1031-07-8	Endosulfan Sulfate		0.0026	0.011	
72-20-8	Endrin		0.0034	0.011	
53494-70-5	Endrin Ketone		0.0027	0.011	
76-44-8	Heptachlor		0.00073	0.0066	
1024-57-3	Heptachlor Epoxide		0.00077	0.0066	
72-43-5	Methoxychlor [2C]		0.0064	0.066	
8001-35-2	Toxaphene		0.055	0.13	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127032.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 3:05 pm
Operator : PJG
Sample : 24E1437-06@FLOR TBA Inst : ECD 8
Misc :
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 16 08:52:51 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
		System Monitoring Compounds						
1)	S	Tetrachlo...	2.906	2.769	3411.7E6	2570.8E6	124.229	128.498
24)	S	Decachlor...	7.055	7.096	2939.5E6	2267.7E6	132.416m	142.844m
		Target Compounds						
2)	T	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
3)	T	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	T	gamma-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	T	Beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6)	T	Delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	T	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
8)	T	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
9)	T	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
10)	T	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
11)	T	Y-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
12)	T	A-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
13)	T	4,4-DDE	0.000	0.000	0	0	N.D. d	N.D. d
14)	T	Endo-I	0.000	0.000	0	0	N.D. d	N.D. d
15)	T	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
16)	T	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
17)	T	4,4-DDD	0.000	0.000	0	0	N.D. d	N.D. d
18)	T	Endo-II	0.000	0.000	0	0	N.D. d	N.D. d
19)	T	4,4-DDT	0.000	0.000	0	0	N.D. d	N.D. d
20)	T	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
21)	T	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
22)	T	End Sulf	0.000	0.000	0	0	N.D. d	N.D. d
23)	T	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
25)	L8	Chlordane{1}	0.000	0.000	0	0	N.D. d	N.D. d
26)	L8	Chlordane{2}	0.000	0.000	0	0	N.D. d	N.D. d
27)	L8	Chlordane{3}	0.000	0.000	0	0	N.D. d	N.D. d
28)	L8	Chlordane{4}	0.000	0.000	0	0	N.D. d	N.D. d
29)	L8	Chlordane{5}	0.000	0.000	0	0	N.D. d	N.D. d
		Sum Chlordane			0	0	N.D.	N.D.
		Average Chlordane					0.000	0.000
30)	H	Toxaphene	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

CHECKED BY:

MAY 16 2024

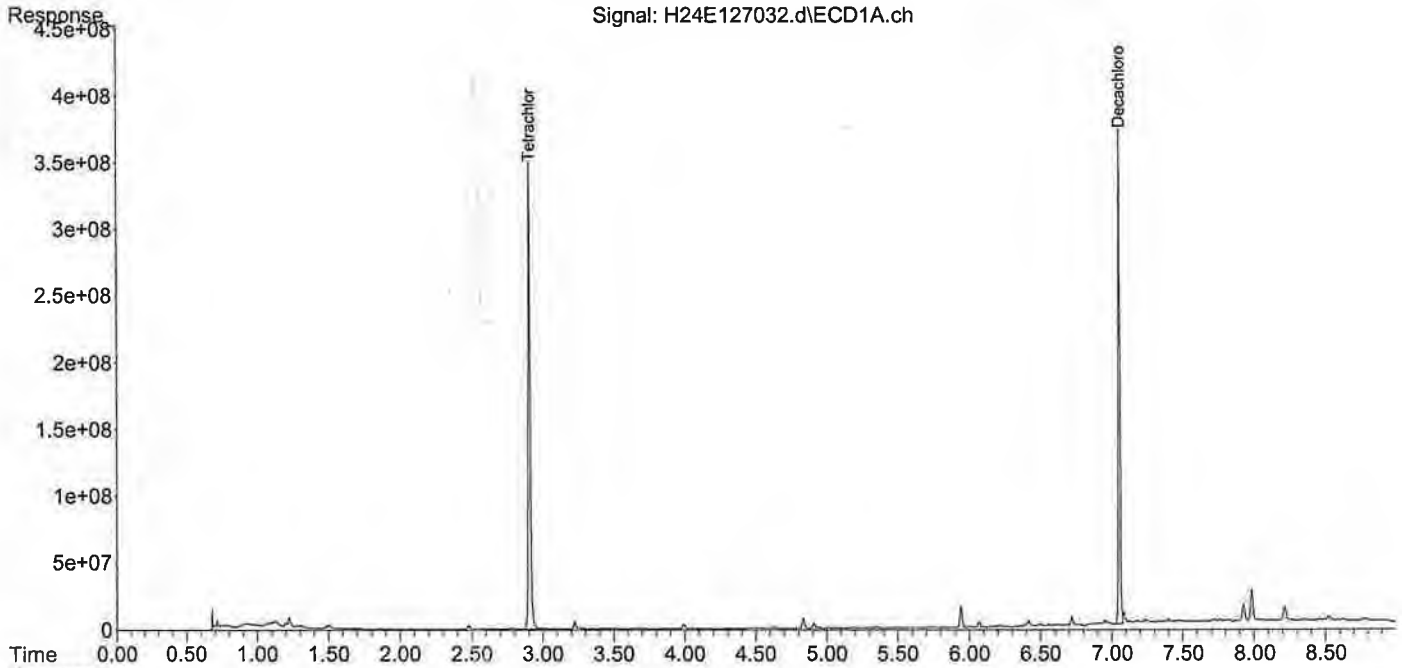
Todd Gionfriddo

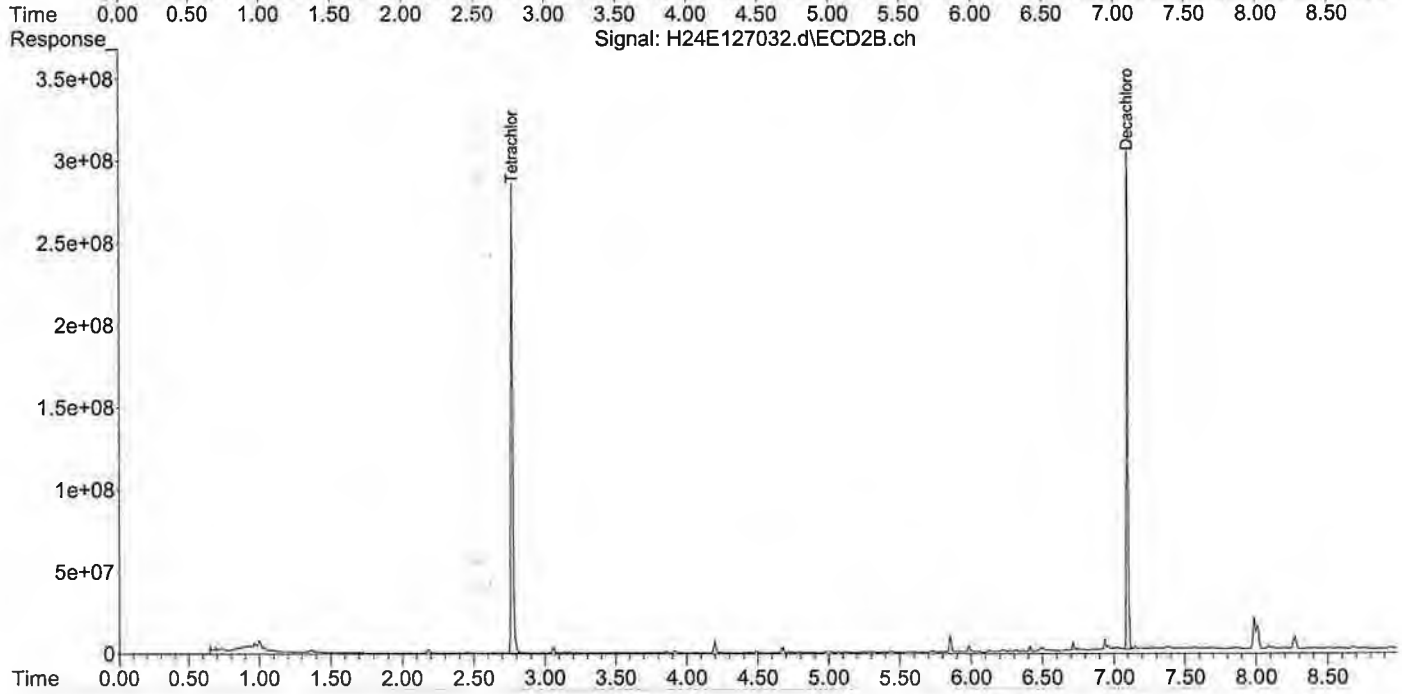
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127032.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 3:05 pm
Operator : PJG
Sample : 24E1437-06@FLOR TBA Inst : ECD 8
Misc :
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 16 08:52:51 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



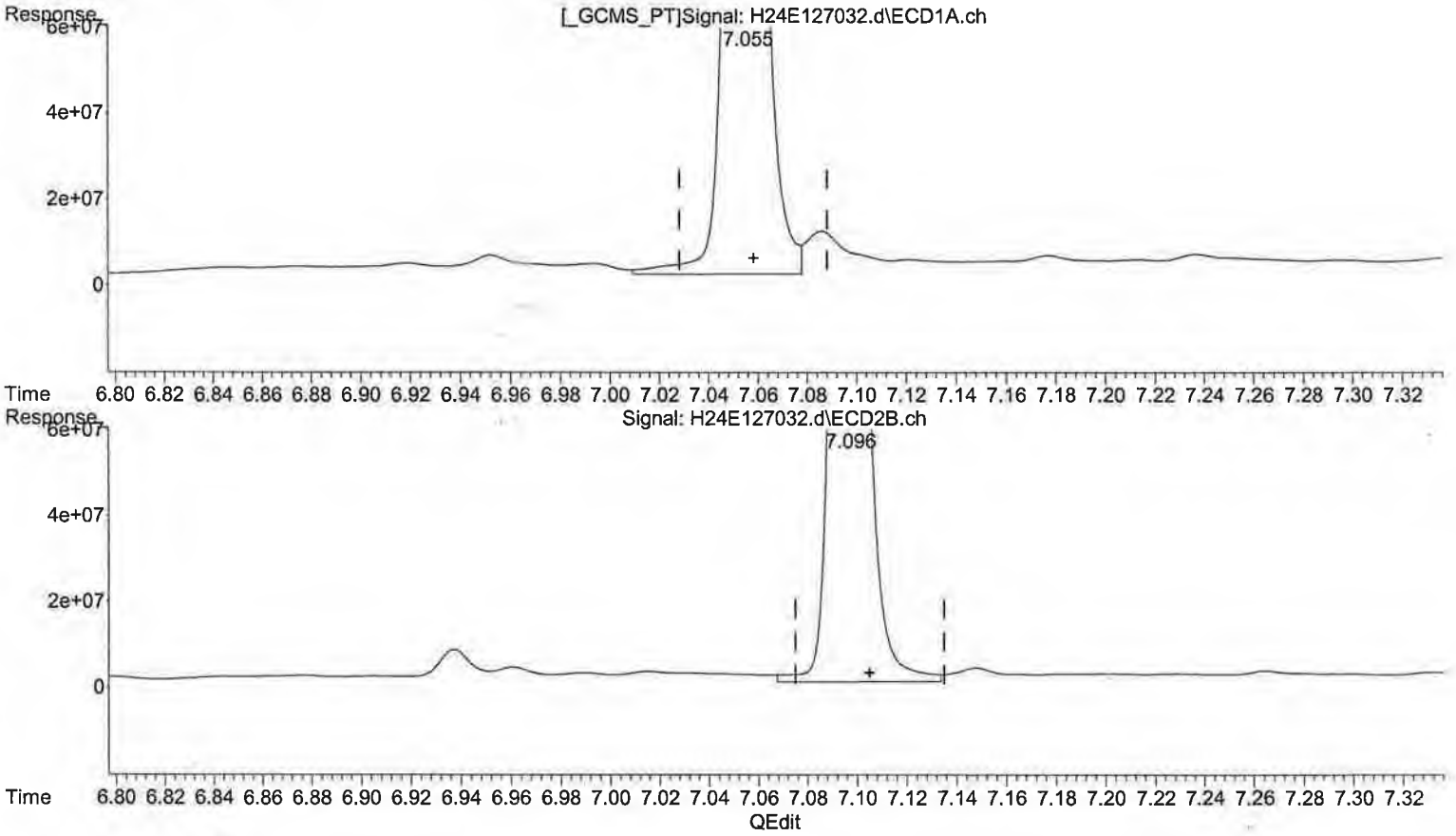


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127032.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 3:05 pm
Operator : PJG
Sample : 24E1437-06@FLOR TBA Inst : ECD 8
Misc :
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:12:14 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(24) Decachlorobiphenyl (S)
7.055min 135.038 ug/L
response 2997656312

(24) Decachlorobiphenyl #2 (S)
7.097min 146.279 ug/L
response 2322270649

CHECKED BY:
MAY 16 2024
Todd Gionfriddo

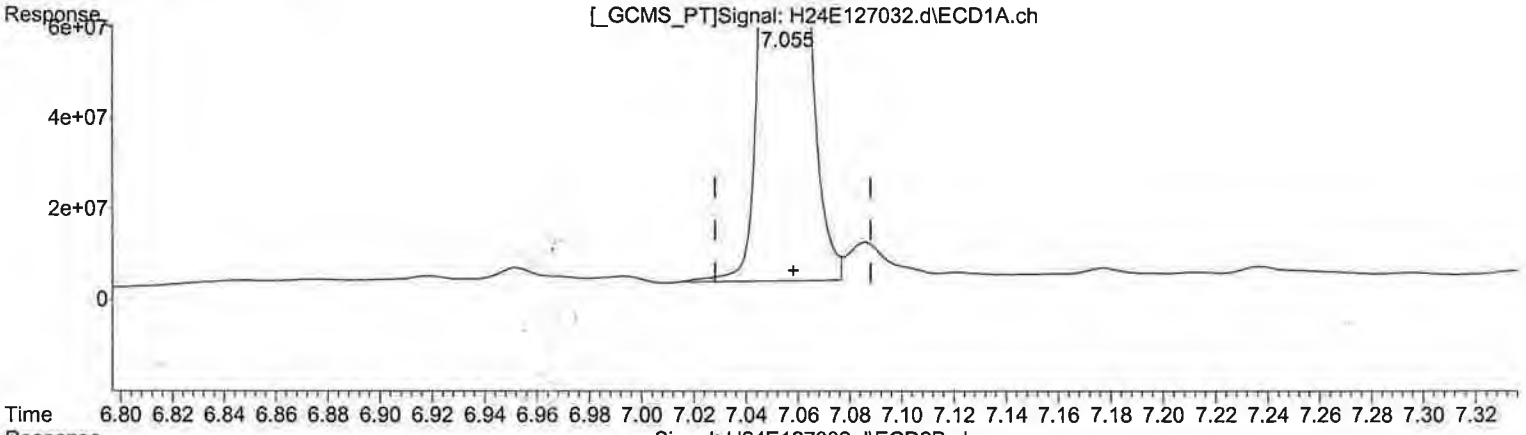
(+) = Expected Retention Time
8PEST051424C.M Thu May 16 08:52:46 2024

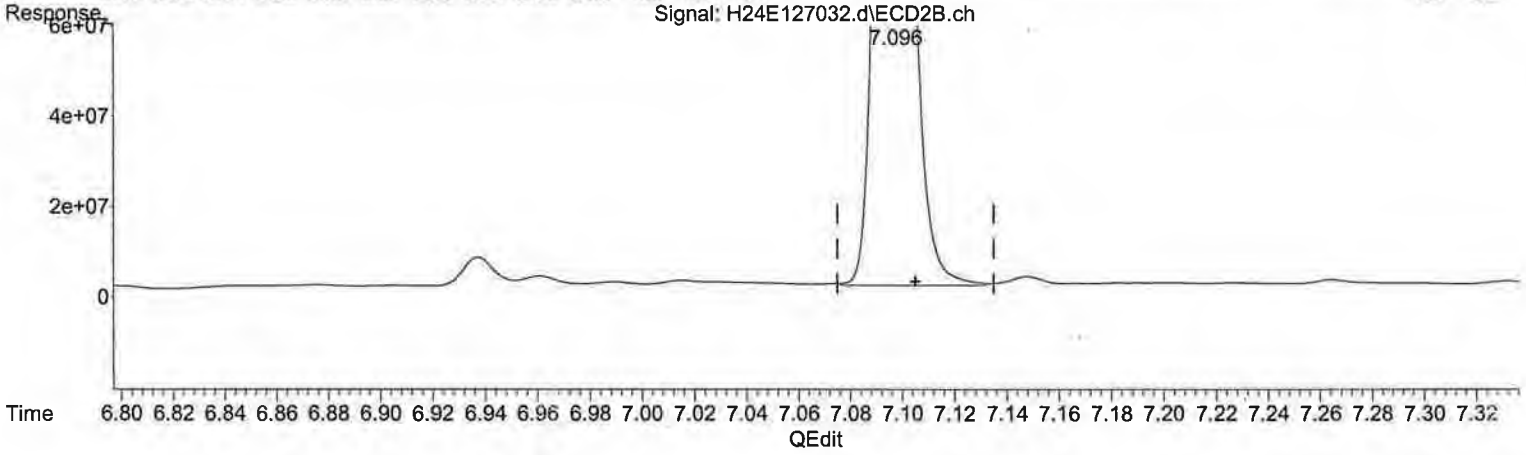
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127032.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 3:05 pm
Operator : PJG
Sample : 24E1437-06@FLOR TBA Inst : ECD 8
Misc :
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:12:14 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





(24) Decachlorobiphenyl (S)
7.055min 132.416 ug/L m
response 2939457751

(24) Decachlorobiphenyl #2 (S)
7.096min 142.844 ug/L m
response 2267733577

CHECKED BY:
MAY 16 2024
Todd Gionfriddo

(+) = Expected Retention Time

1 - FORM I
ANALYSIS DATA SHEET

SB1A

Laboratory:	Pace New England			SDG:	24E1437
Client:	NYS Division of Environmental Rer			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-06RE1	File ID:	H24E127048.d
Sampled:	05/08/24 14:19	Prepared:	05/10/24 15:22	Analyzed:	05/14/24 18:16
Solids:	72.51	Preparation:	SW-846 3546	Dilution:	1
Batch:	B374053	Sequence:	S104592	Calibration:	2400548
Instrument:	ECD 8				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
7421-93-4	Endrin Aldehyde		0.0026	0.011	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127048.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 6:16 pm
Operator : PJG
Sample : 24E1437-06RE1@FLOR Inst : ECD 8
Misc :
ALS Vial : 48 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 16 09:11:11 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
		System Monitoring Compounds							
1)	S	Tetrachlo...	2.906	2.769	3502.4E6	2576.4E6	127.533	128.778	
24)	S	Decachlor...	7.054	7.097	2932.5E6	2278.5E6	132.101m	143.520m	
		Target Compounds							
2)	T	Hexachlor...	3.225	3.136	92840940	8959219	3.080	0.404	#
3)	T	alpha-BHC	3.352f	3.284f	19332739	4699827	0.472	0.164	#
4)	T	gamma-BHC	3.654f	3.541	26318707	7830585	0.701	0.293	#
5)	T	Beta-BHC	3.676f	3.598	21659195	5075598	1.351	0.449	#
6)	T	Delta-BHC	3.828	3.830	31190519	3943051	0.883	0.154	#
7)	T	Heptachlor	3.991f	3.857f	59393939	11750976	1.650	0.457	#
8)	T	Aldrin	4.284f	4.114f	3574953	3737679	0.102	0.146	#
9)	T	Alachlor	4.389	4.065	6684193	4224070	1.574	1.439	
10)	T	Heptachlo...	4.752	4.592	11207430	2809167	0.354	0.122	#
11)	T	Y-Chlordane	4.835f	4.744	91097646	8646880	2.674	0.363	#
12)	T	A-Chlordane	4.945f	4.859	13069122	7353555	0.413	0.321	
13)	T	4,4-DDE	5.018	5.018	13549788	11079690	0.437	0.485	
14)	T	Endo-I	5.086	4.905	5923832	3033539	0.203	0.143	#
15)	T	Dieldrin	5.263f	5.113f	10186194	10330372	0.308	0.437	#
16)	T	Endrin	5.467	0.000	6152695	0	0.221	N.D.	#
17)	T	4,4-DDD	5.524	5.473	5481910	4417545	0.214	0.237	
18)	T	Endo-II	5.654	5.552	6231848	5857969	0.226	0.293	#
19)	T	4,4-DDT	5.723f	5.731	25690183	18035073	0.963	0.933	
20)	T	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d	
21)	T	Methoxychlor	6.105f	6.272	5639480	18898950	0.403	1.823	#
22)	T	End Sulf	6.308	6.035	668109	11134158	0.026	0.592	#
23)	T	Endrin Ke...	6.494	6.413	48519362	35938683	1.598	1.647	
25)	L8	Chlordane{1}	3.951	3.780	12938174	2538578	10.528	2.794	#
26)	L8	Chlordane{2}	3.991f	3.857f	59393939	11750976	34.733	9.361	#
27)	L8	Chlordane{3}	4.389	4.289f	6684193	6093890	4.583	6.031	#
28)	L8	Chlordane{4}	4.835f	4.813	91097646	6160489	18.632	1.647	#
29)	L8	Chlordane{5}	5.610	4.859	20925245	7353555	16.524	2.826	#
		Sum Chlordane			191.0E6	33897489	85.001	22.658	
		Average Chlordane					17.000	4.532	
30)	H	Toxaphene	5.751	5.623	1762.1E6	1464.9E6	80.139	86.096	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

End Ald Only

CHECKED BY:

MAY 16 2024

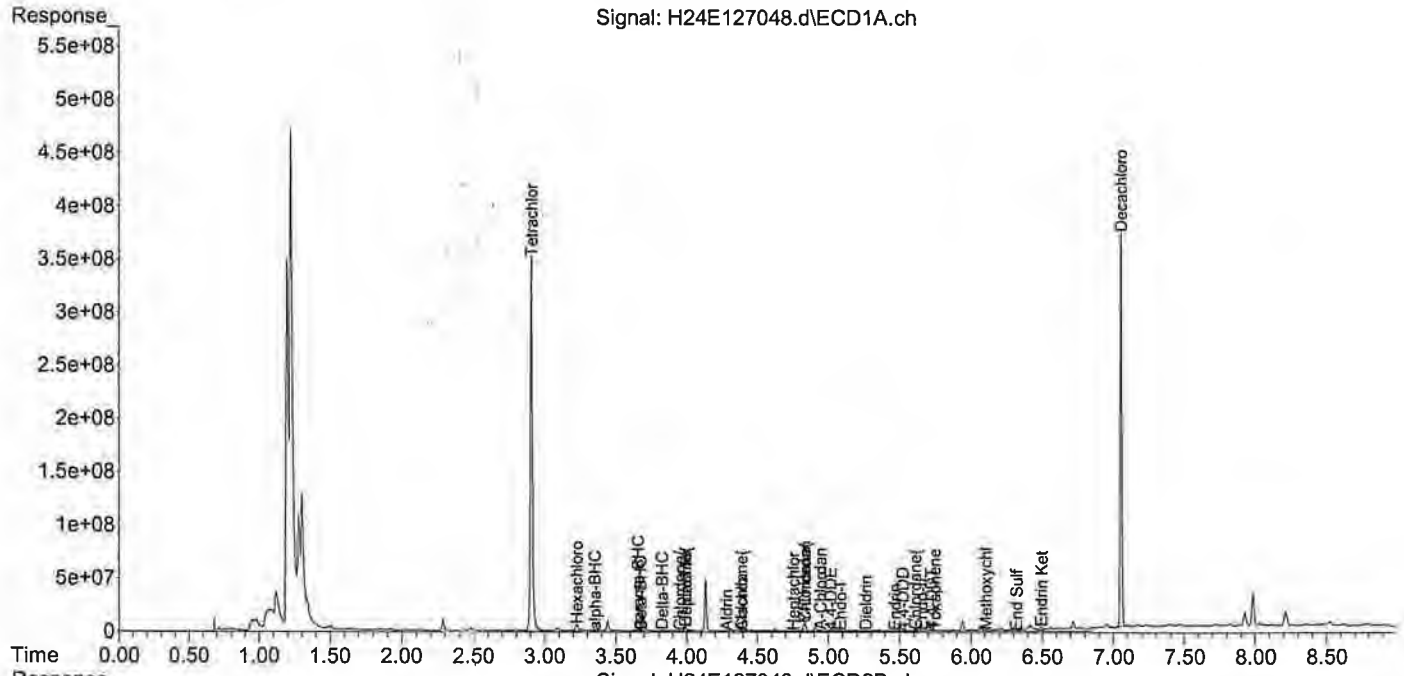
Todd Glonfridde

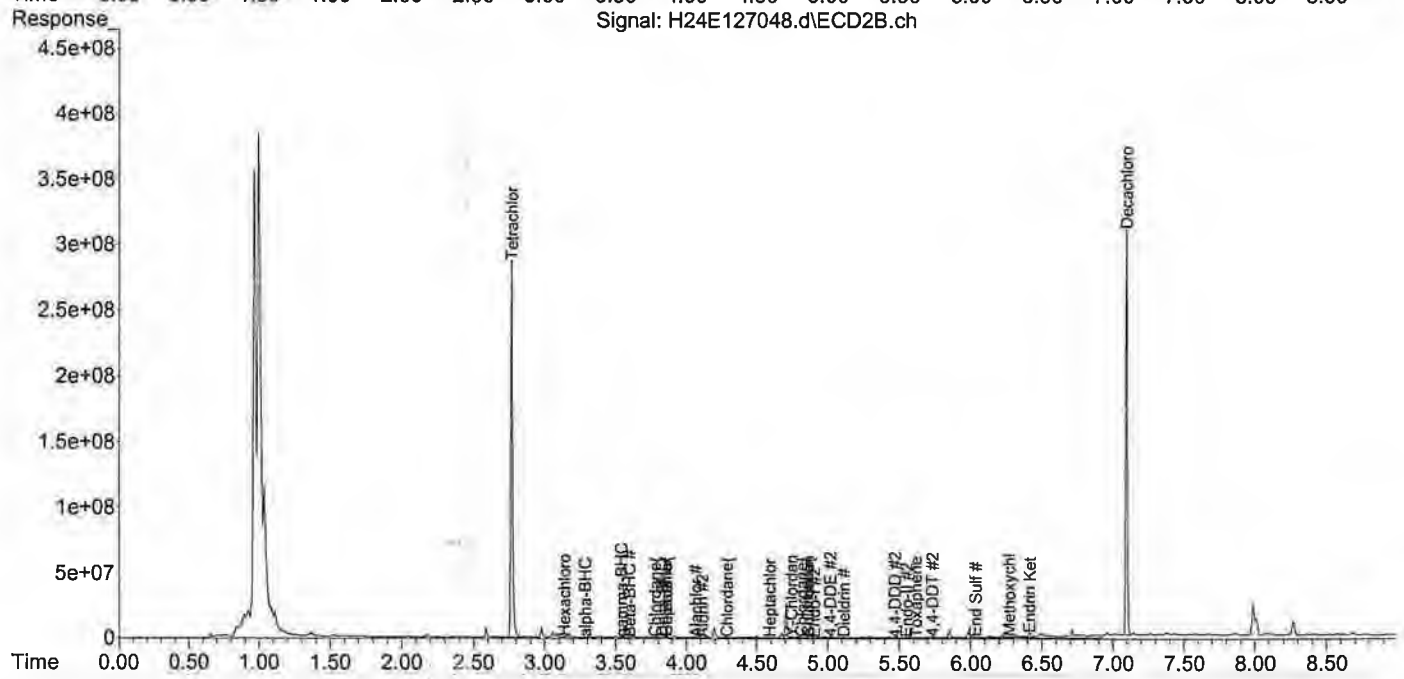
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127048.d
Signal(s) : Signal #1: ECD1A.ch, Signal #2: ECD2B.ch
Acq On : 14 May 2024 6:16 pm
Operator : PJG
Sample : 24E1437-06RE1@FLOR Inst : ECD 8
Misc :
ALS Vial : 48 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 16 09:11:11 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



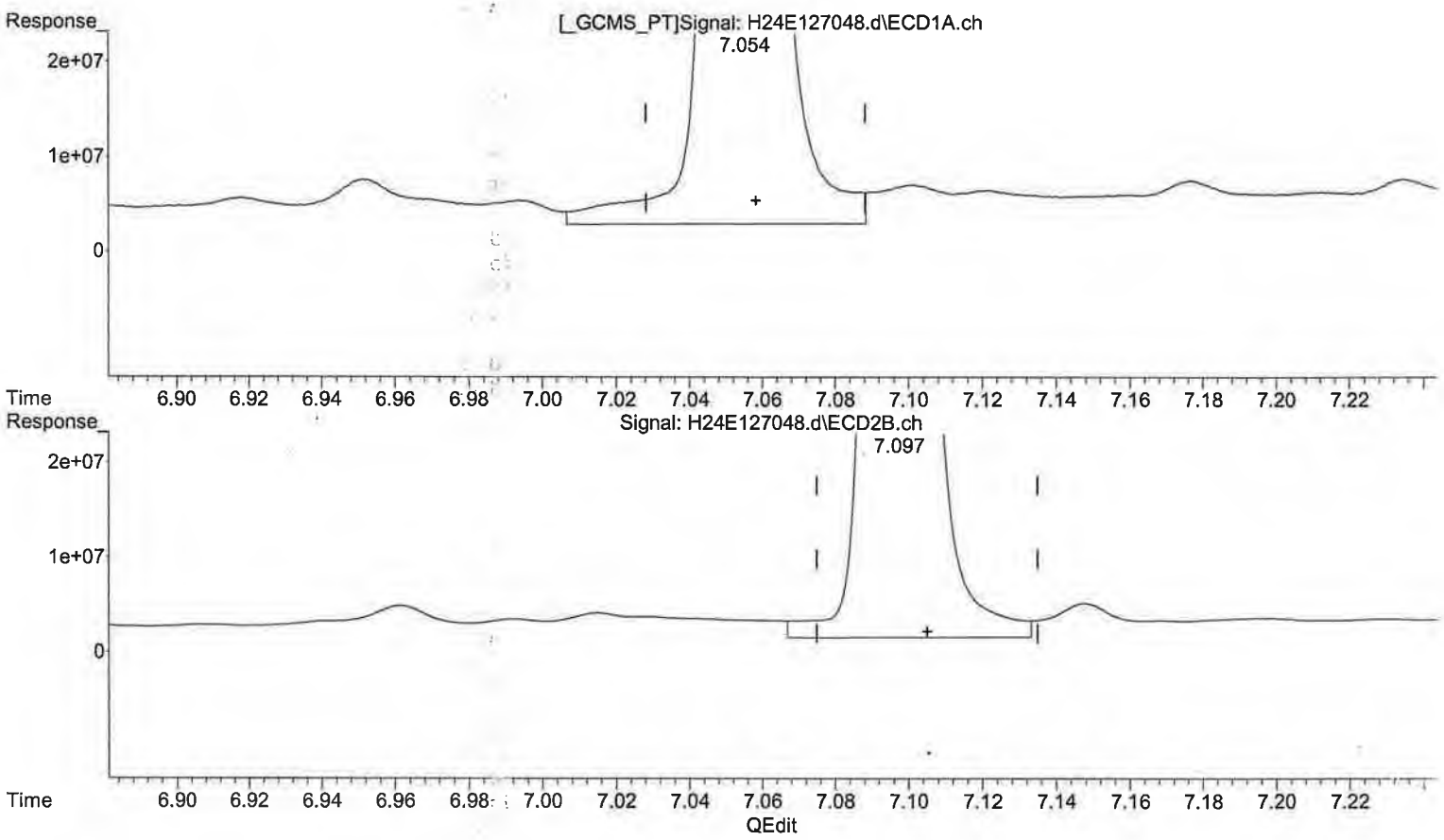


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127048.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 6:16 pm
Operator : PJG
Sample : 24E1437-06RE1@FLOR Inst : ECD 8
Misc :
ALS Vial : 48 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 16 09:10:49 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(24) Decachlorobiphenyl (S)

7.055min 137.789 ug/L

response 3058714643

(24) Decachlorobiphenyl #2 (S)

7.097min 147.778 ug/L

response 2346075879

CHECKED BY:

MAY 16 2024

Todd Gionfriddo

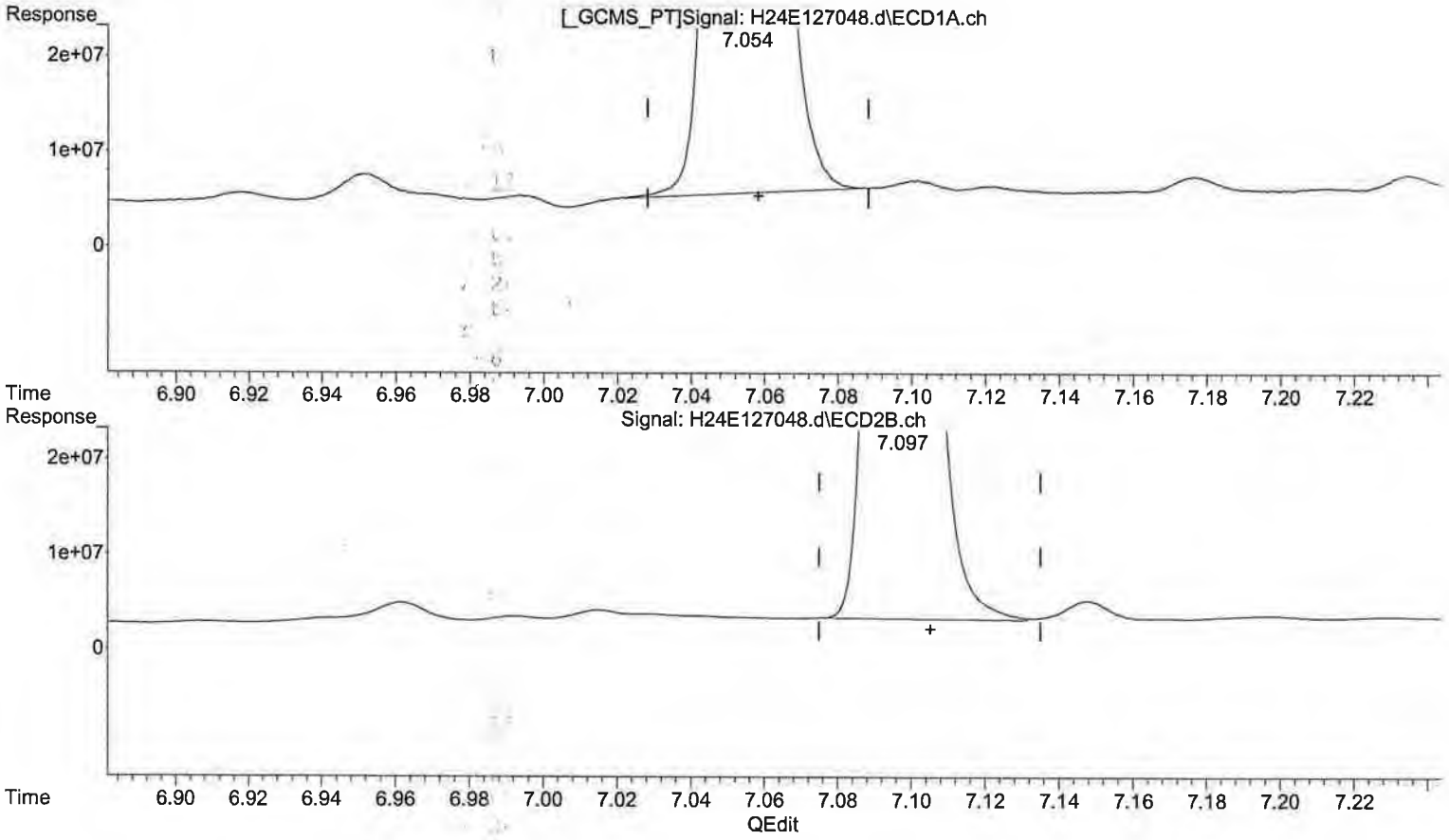
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127048.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 6:16 pm
Operator : PJG
Sample : 24E1437-06RE1@FLOR Inst : ECD 8
Misc :
ALS Vial : 48 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 16 09:10:49 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(24) Decachlorobiphenyl (S)

7.054min 132.101 ug/L m

response 2932451504

(24) Decachlorobiphenyl #2 (S)

7.097min 143.520 ug/L m

response 2278471577

CHECKED BY:

MAY 16 2024

Todd Gionfriddo

(+) = Expected Retention Time

1 - FORM I
ANALYSIS DATA SHEET

SB4A

Laboratory:	Pace New England			SDG:	24E1437
Client:	NYS Division of Environmental Rer			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-12	File ID:	H24E127033.d
Sampled:	05/08/24 14:53	Prepared:	05/10/24 15:22	Analyzed:	05/14/24 15:17
Solids:	77.87	Preparation:	SW-846 3546	Dilution:	10
Batch:	B374053	Sequence:	S104592	Calibration:	2400548
Instrument:	ECD 8				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
5103-71-9	alpha-Chlordane		0.028	0.062	
5103-74-2	gamma-Chlordane		0.027	0.062	
309-00-2	Aldrin		0.0060	0.062	
319-84-6	alpha-BHC		0.029	0.062	
319-85-7	beta-BHC		0.033	0.062	
319-86-8	delta-BHC		0.033	0.062	
58-89-9	gamma-BHC (Lindane)		0.0085	0.025	
72-54-8	4,4'-DDD		0.010	0.049	
72-55-9	4,4'-DDE		0.0054	0.049	
50-29-3	4,4'-DDT		0.0063	0.049	
60-57-1	Dieldrin		0.0059	0.049	
959-98-8	Endosulfan I		0.029	0.062	
33213-65-9	Endosulfan II		0.026	0.098	
1031-07-8	Endosulfan Sulfate		0.024	0.098	
72-20-8	Endrin		0.031	0.098	
53494-70-5	Endrin Ketone		0.025	0.098	
76-44-8	Heptachlor		0.0068	0.062	
1024-57-3	Heptachlor Epoxide		0.0071	0.062	
72-43-5	Methoxychlor [2C]		0.059	0.62	
8001-35-2	Toxaphene		0.51	1.2	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127033.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 3:17 pm
Operator : PJG
Sample : 24E1437-12@10X FLOR TBA Inst : ECD 8
Misc :
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 16 08:54:25 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
		System Monitoring Compounds						
1)	S	Tetrachlo...	2.905	2.769	428.9E6	314.6E6	15.616	15.723
24)	S	Decachlor...	7.053	7.097	342.6E6	258.0E6	15.433m	16.251
		Target Compounds						
2)	T	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
3)	T	alpha-BHC	0.000	0.000	0	0	N.D.	N.D.
4)	T	gamma-BHC	0.000	0.000	0	0	N.D.	N.D.
5)	T	Beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6)	T	Delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	T	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
8)	T	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
9)	T	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
10)	T	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
11)	T	Y-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
12)	T	A-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
13)	T	4,4-DDE	0.000	0.000	0	0	N.D. d	N.D. d
14)	T	Endo-I	0.000	0.000	0	0	N.D. d	N.D. d
15)	T	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
16)	T	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
17)	T	4,4-DDD	0.000	0.000	0	0	N.D.	N.D.
18)	T	Endo-II	0.000	0.000	0	0	N.D. d	N.D. d
19)	T	4,4-DDT	0.000	0.000	0	0	N.D. d	N.D. d
20)	T	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
21)	T	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
22)	T	End Sulf	0.000	0.000	0	0	N.D. d	N.D. d
23)	T	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
25)	L8	Chlordane{1}	0.000	0.000	0	0	N.D. d	N.D. d
26)	L8	Chlordane{2}	0.000	0.000	0	0	N.D. d	N.D. d
27)	L8	Chlordane{3}	0.000	0.000	0	0	N.D. d	N.D. d
28)	L8	Chlordane{4}	0.000	0.000	0	0	N.D. d	N.D. d
29)	L8	Chlordane{5}	0.000	0.000	0	0	N.D. d	N.D. d
		Sum Chlordane			0	0	N.D.	N.D.
		Average Chlordane					0.000	0.000
30)	H	Toxaphene	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

PCBs

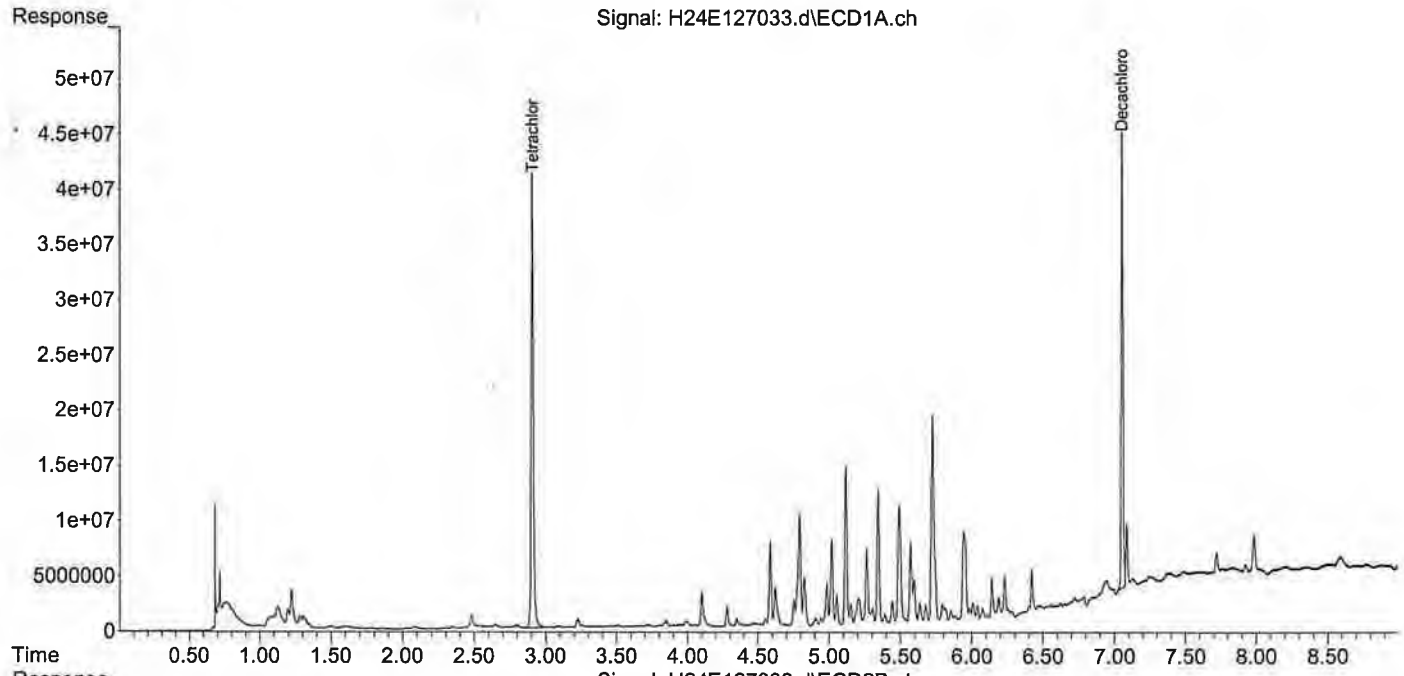
CHECKED BY:
MAY 16 2024
Todd Gionfriddo

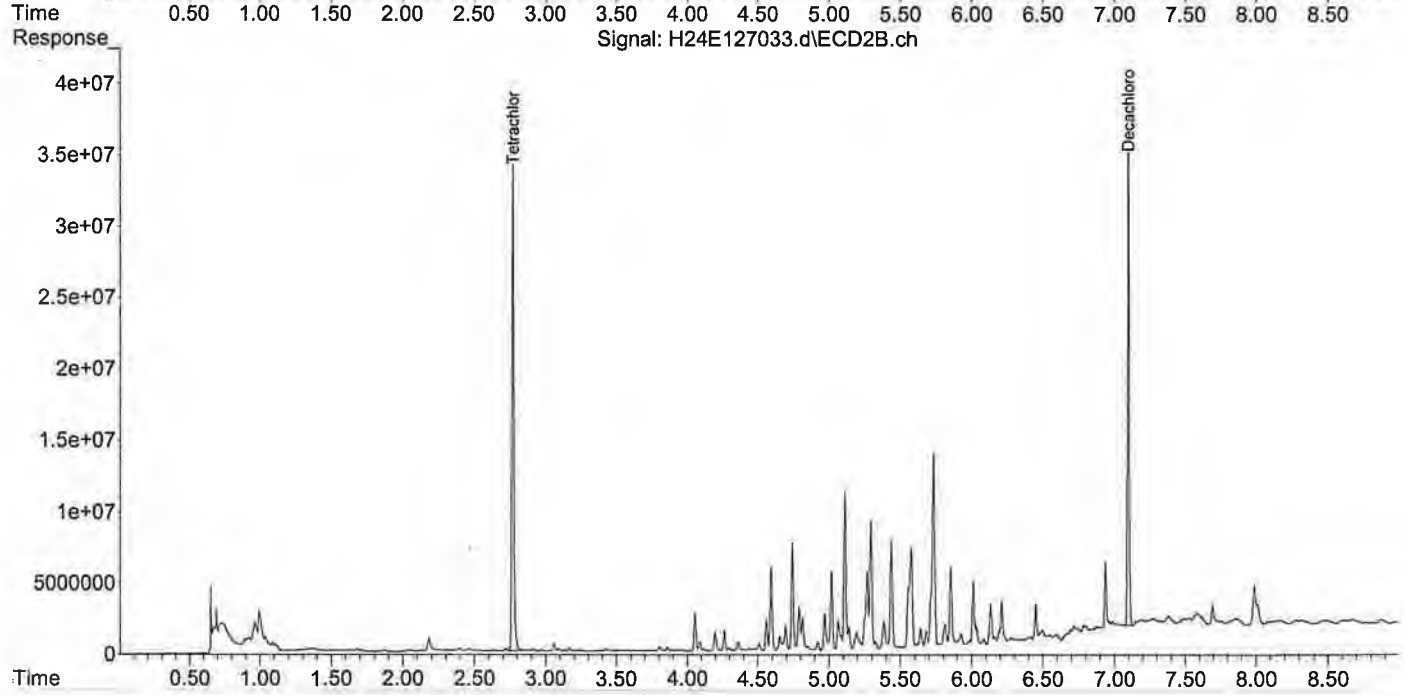
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127033.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 3:17 pm
Operator : PJG
Sample : 24E1437-12@10X FLOR TBA Inst : ECD 8
Misc :
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 16 08:54:25 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





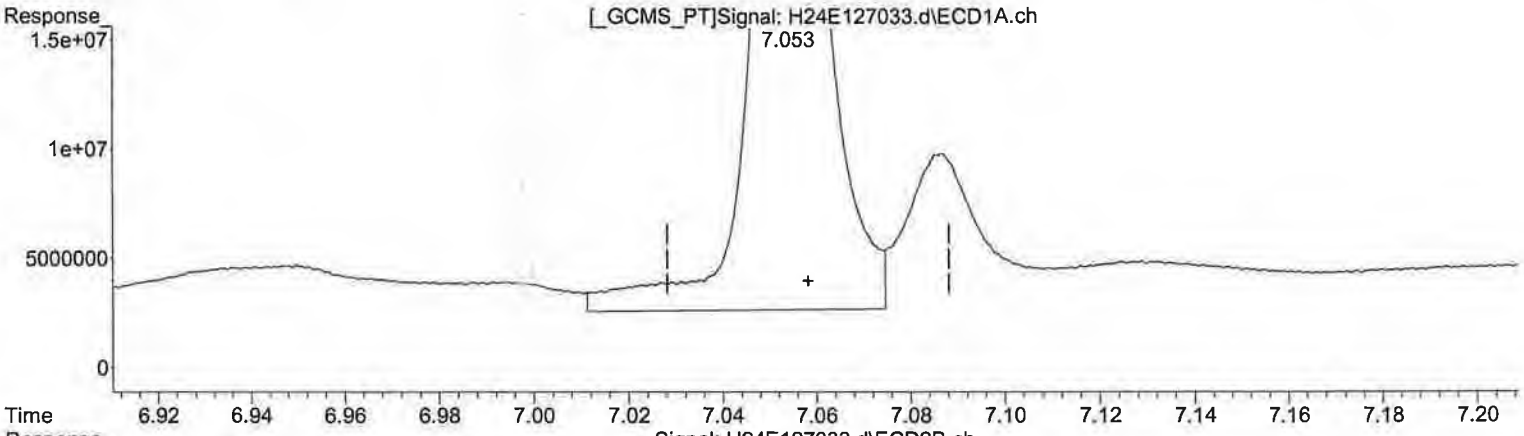
Quantitation Report (Qedit)

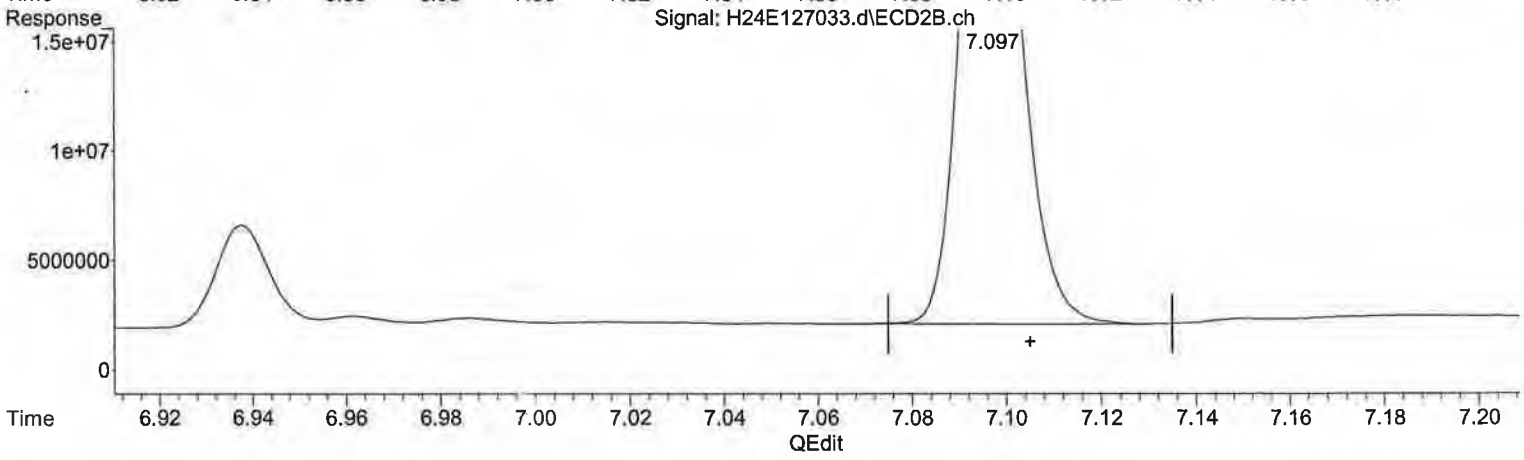
Data Path : C:\msdchem\1\data\051424\
Data File : H24E127033.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 3:17 pm
Operator : PJG
Sample : 24E1437-12@10X FLOR TBA Inst : ECD 8
Misc :
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:12:18 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

3

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





(24) Decachlorobiphenyl (S)

7.054min 17.568 ug/L

response 389989455

CHECKED BY:

MAY 16 2024

Todd Gionfriddo

(24) Decachlorobiphenyl #2 (S)

7.097min 16.251 ug/L

response 257993582

(+) = Expected Retention Time

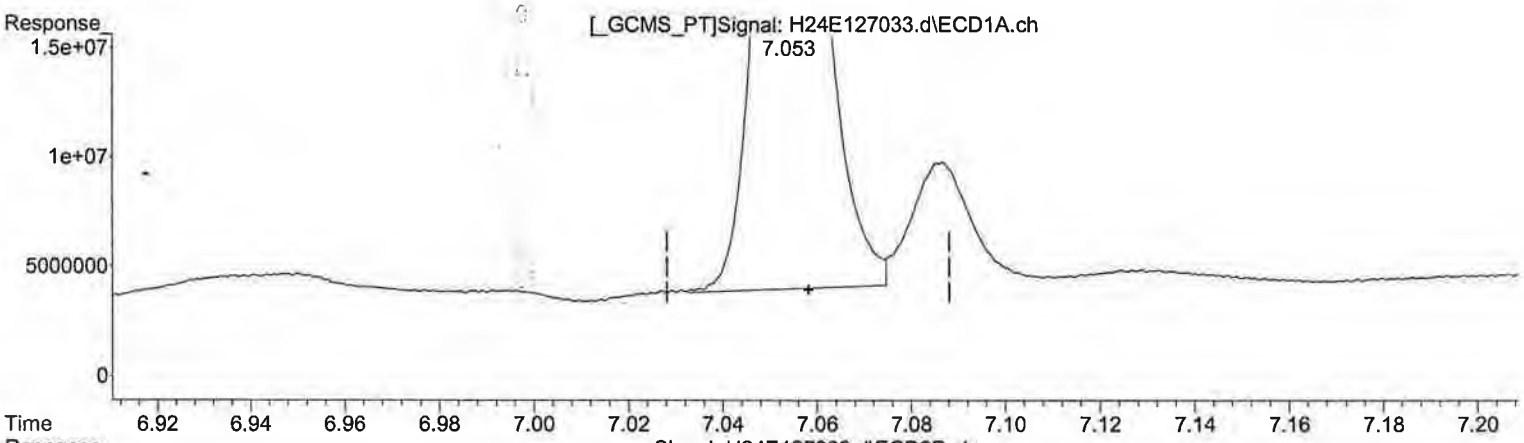
Quantitation Report (Qedit)

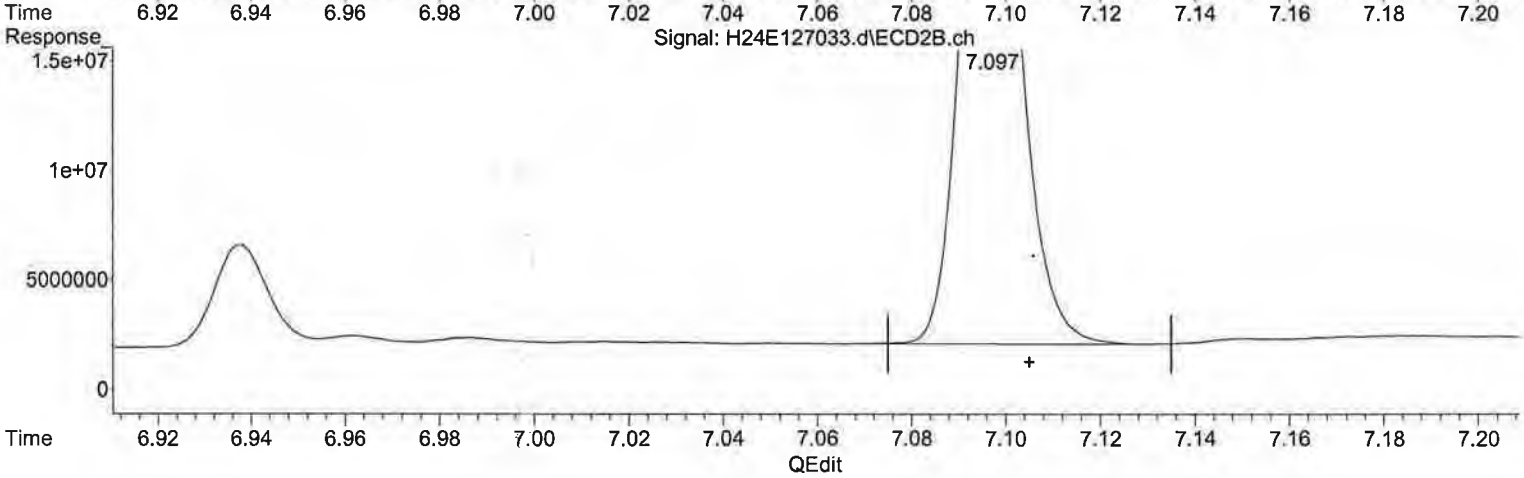
Data Path : C:\msdchem\1\data\051424\
Data File : H24E127033.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 3:17 pm
Operator : PJG
Sample : 24E1437-12@10X FLOR TBA Inst : ECD 8
Misc :
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:12:18 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

4

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





(24) Decachlorobiphenyl (S)

7.053min 15.433 ug/L m

response 342584292

(24) Decachlorobiphenyl #2 (S)

7.097min 16.251 ug/L

response 257993582

CHECKED BY:

MAY 16 2024

Todd Gionfriddo

(+) = Expected Retention Time

1 - FORM I
ANALYSIS DATA SHEET

SB4A

Laboratory:	Pace New England			SDG:	24E1437
Client:	NYS Division of Environmental Rer			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-12RE1	File ID:	H24E127049.d
Sampled:	05/08/24 14:53	Prepared:	05/10/24 15:22	Analyzed:	05/14/24 18:28
Solids:	77.87	Preparation:	SW-846 3546	Dilution:	10
Batch:	B374053	Sequence:	S104592	Calibration:	2400548
Instrument:	ECD 8				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
7421-93-4	Endrin Aldehyde		0.024	0.098	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127049.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 6:28 pm
Operator : PJG
Sample : 24E1437-12RE1@10X FLOR Inst : ECD 8
Misc :
ALS Vial : 49 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 16 09:12:16 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
		System Monitoring Compounds							
1)	S	Tetrachlo...	2.906	2.769	448.2E6	322.4E6	16.319	16.116	
24)	S	Decachlor...	7.054	7.096	365.8E6	276.5E6	16.477m	17.416	
		Target Compounds							
2)	T	Hexachlor...	3.225	3.166f	10484507	2130490	0.348	0.096	#
3)	T	alpha-BHC	3.348f	0.000	992406	0	0.024	N.D.	#
4)	T	gamma-BHC	3.644f	0.000	241016	0	0.006	N.D.	#
5)	T	Beta-BHC	3.720f	3.628f	2024671	2343153	0.126	0.207	#
6)	T	Delta-BHC	3.850	3.809f	6467183	2580349	0.183	0.101	#
7)	T	Heptachlor	4.000f	0.000	3283260	0	0.091	N.D.	#
8)	T	Aldrin	4.281f	0.000	21273628	0	0.604	N.D.	#
9)	T	Alachlor	4.384	4.055f	3263793	27900257	0.768	9.502	#
10)	T	Heptachlo...	4.753	4.592	25928737	65597830	0.819	2.845	#
11)	T	Y-Chlordane	0.000	4.742	0	82119915	N.D.	3.450	#
12)	T	A-Chlordane	4.983	0.000	47429083	0	1.500	N.D.	#
13)	T	4,4-DDE	5.019	5.018	97179348	66280138	3.131	2.901	
14)	T	Endo-I	5.054f	4.923	30195677	6471706	1.033	0.305	#
15)	T	Dieldrin	5.265f	5.140	92342406	17861485	2.791	0.756	#
16)	T	Endrin	0.000	5.384f	0	28795720	N.D.	1.438	#
17)	T	4,4-DDD	0.000	0.000	0	0	N.D.	N.D.	
18)	T	Endo-II	5.637f	5.559	20849057	41123686	0.757	2.060	#
19)	T	4,4-DDT	5.724f	5.731	285.0E6	214.2E6	10.683	11.079	
20)	T	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d	
21)	T	Methoxychlor	6.111	6.274f	3966651	6264154	0.283	0.604	#
22)	T	End Sulf	6.283f	6.032	5742510	12463865	0.225	0.662	#
23)	T	Endrin Ke...	6.495	6.412	7890223	5190061	0.260	0.238	
25)	L8	Chlordane{1}	3.980f	0.000	959773	0	0.781	N.D.	#
26)	L8	Chlordane{2}	4.000f	0.000	3283260	0	1.920	N.D.	#
27)	L8	Chlordane{3}	4.384	4.263	3263793	15233557	2.238	15.075	#
28)	L8	Chlordane{4}	0.000	4.814	0	23680353	N.D.	6.330	#
29)	L8	Chlordane{5}	5.595	0.000	46494858	0	36.716	N.D.	#
		Sum Chlordane			54001684	38913910	41.655	21.406	
Average		Chlordane					10.414	10.703	
30)	H	Toxaphene	5.751	5.623	2834.8E6	2043.7E6	128.922	120.117	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

End Aldr Only

CHECKED BY:

MAY 16 2024

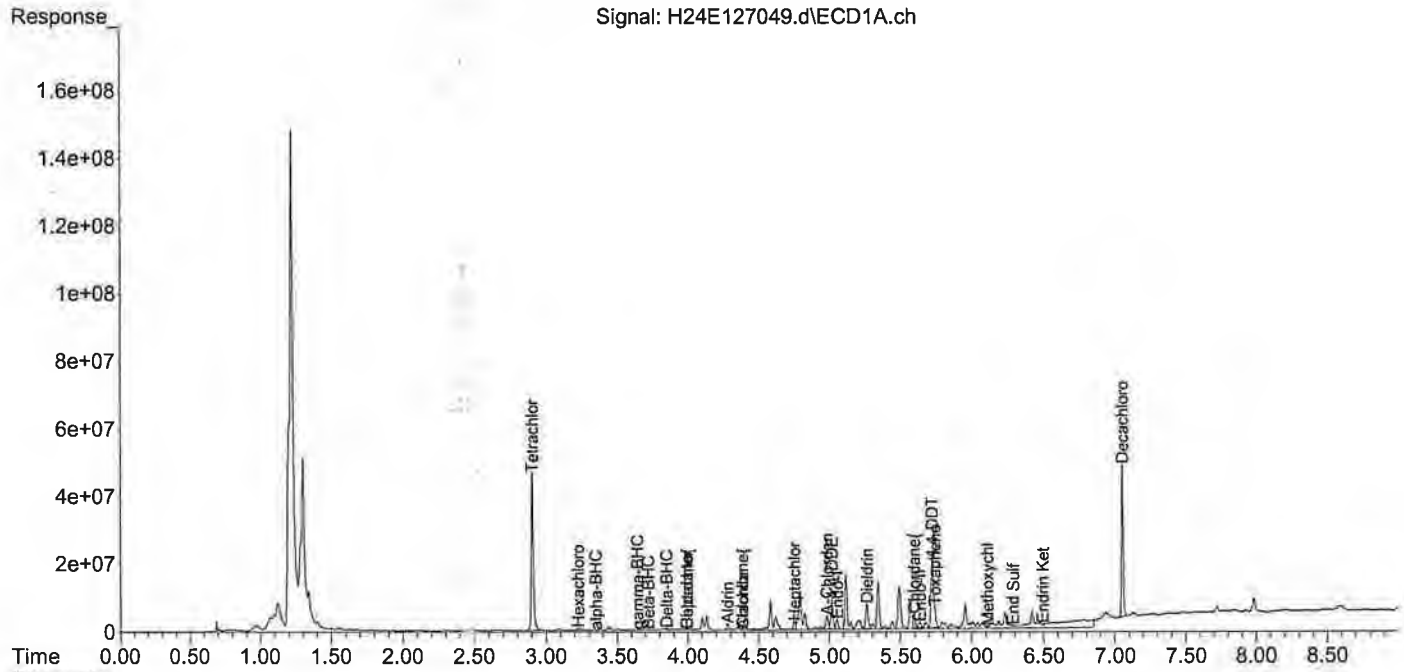
Todd Gionfridde

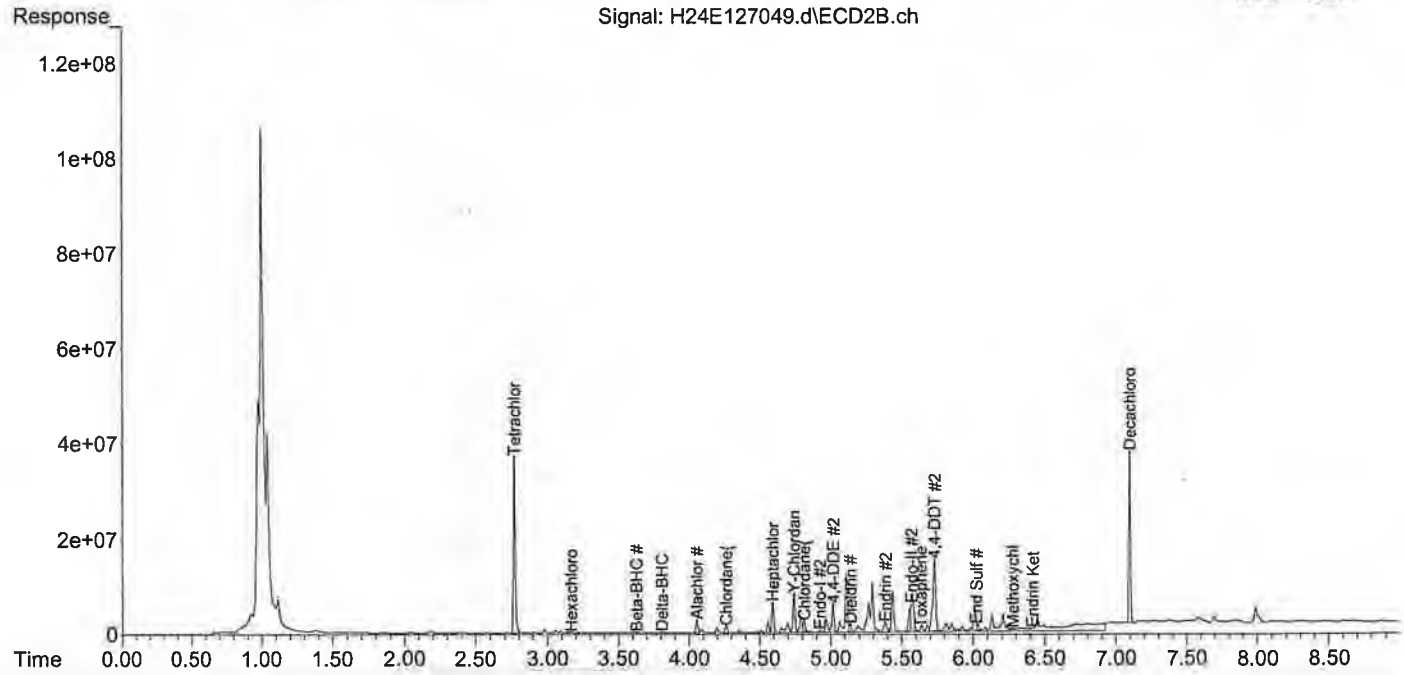
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127049.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 6:28 pm
Operator : PJG
Sample : 24E1437-12RE1@10X FLOR Inst : ECD 8
Misc :
ALS Vial : 49 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 16 09:12:16 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





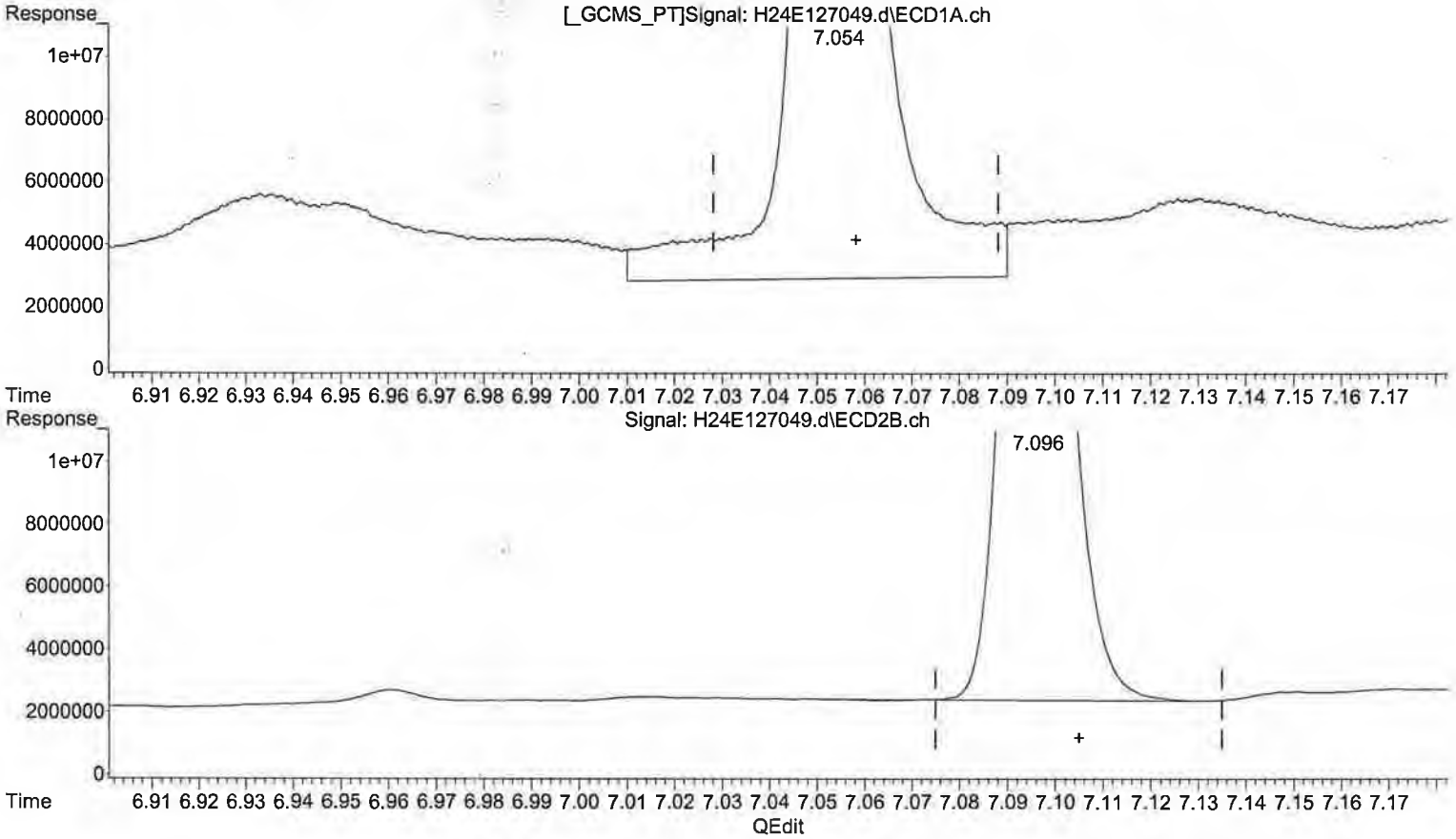
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127049.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 6:28 pm
Operator : PJG
Sample : 24E1437-12RE1@10X FLOR Inst : ECD 8
Misc :
ALS Vial : 49 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:23:16 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

3

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(24) Decachlorobiphenyl (S)

7.054min 19.455 ug/L

response 431864141

(24) Decachlorobiphenyl #2 (S)

7.096min 17.416 ug/L

response 276491137

CHECKED BY:

MAY 16 2024

Todd Glonfridde

(+) = Expected Retention Time

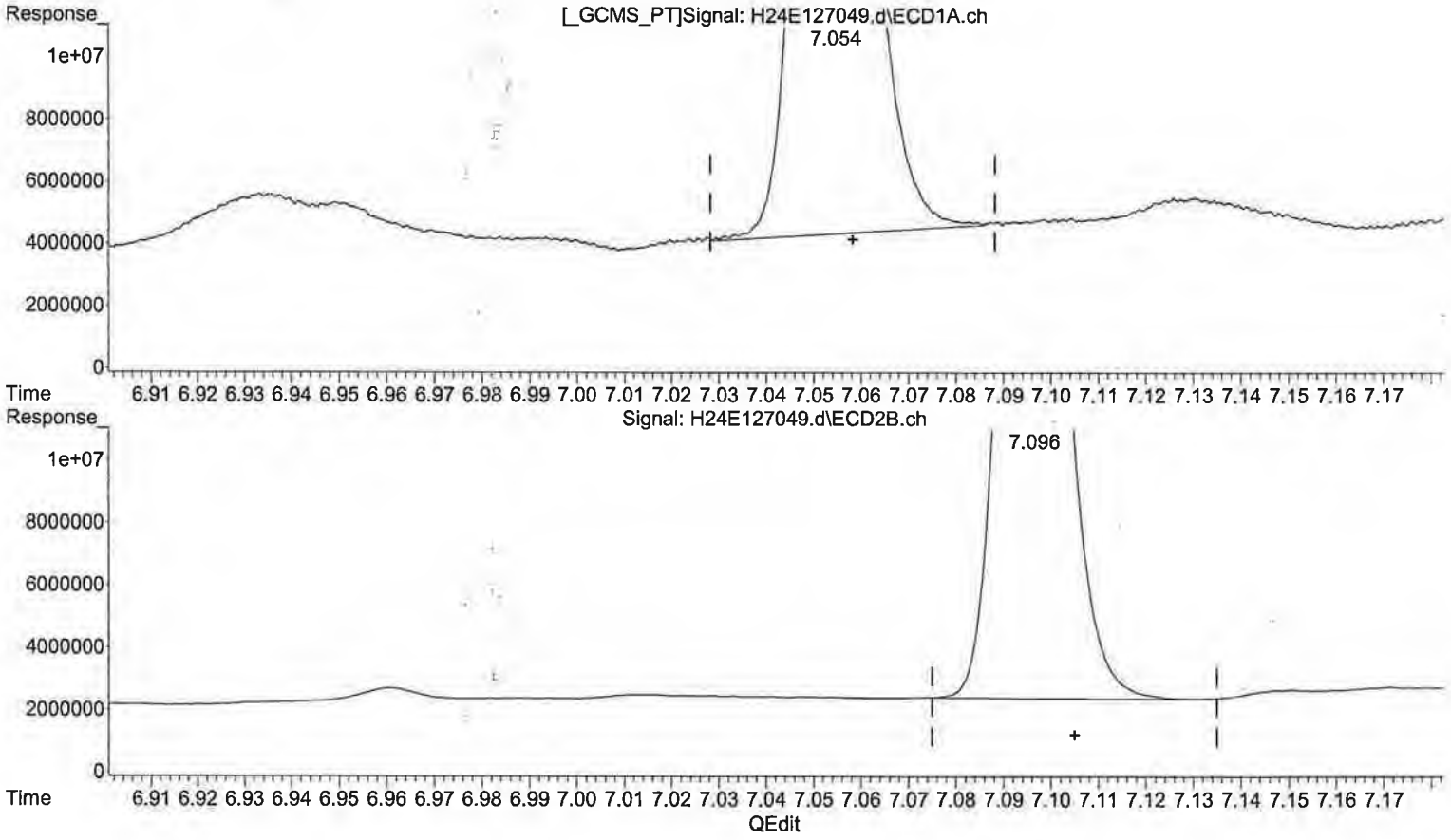
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127049.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 6:28 pm
Operator : PJG
Sample : 24E1437-12RE1@10X FLOR Inst : ECD 8
Misc :
ALS Vial : 49 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:23:16 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

4

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(24) Decachlorobiphenyl (S)

7.054min 16.477 ug/L m

response 365760548

CHECKED BY:

MAY 16 2024

Todd Glonfridde

(24) Decachlorobiphenyl #2 (S)

7.096min 17.416 ug/L

response 276491137

(+) = Expected Retention Time

1 - FORM I
ANALYSIS DATA SHEET

SB7

Laboratory:	Pace New England			SDG:	24E1437
Client:	NYS Division of Environmental Rer			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-17	File ID:	H24E127034.d
Sampled:	05/08/24 15:39	Prepared:	05/10/24 15:22	Analyzed:	05/14/24 15:29
Solids:	69.34	Preparation:	SW-846 3546	Dilution:	20
Batch:	B374053	Sequence:	S104592	Calibration:	2400548
Instrument:	ECD 8				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
5103-71-9	alpha-Chlordane		0.064	0.14	
5103-74-2	gamma-Chlordane		0.060	0.14	
309-00-2	Aldrin		0.013	0.14	
319-84-6	alpha-BHC		0.065	0.14	
319-85-7	beta-BHC		0.073	0.14	
319-86-8	delta-BHC		0.073	0.14	
58-89-9	gamma-BHC (Lindane)		0.019	0.055	
72-54-8	4,4'-DDD		0.023	0.11	
72-55-9	4,4'-DDE		0.012	0.11	
50-29-3	4,4'-DDT		0.014	0.11	
60-57-1	Dieldrin		0.013	0.11	
959-98-8	Endosulfan I		0.066	0.14	
33213-65-9	Endosulfan II		0.059	0.22	
1031-07-8	Endosulfan Sulfate		0.053	0.22	
72-20-8	Endrin		0.070	0.22	
53494-70-5	Endrin Ketone		0.055	0.22	
76-44-8	Heptachlor		0.015	0.14	
1024-57-3	Heptachlor Epoxide		0.016	0.14	
72-43-5	Methoxychlor [2C]		0.13	1.4	
8001-35-2	Toxaphene		1.1	2.7	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127034.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 3:29 pm
Operator : PJG
Sample : 24E1437-17@20X FLOR TBA Inst : ECD 8
Misc :
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 16 09:00:31 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
		System Monitoring Compounds						
1)	S	Tetrachlo...	2.905	2.768	241.3E6	175.0E6	8.785	8.745
24)	S	Decachlor...	7.054	7.096	188.5E6	142.9E6	8.492m	9.002m
		Target Compounds						
2)	T	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
3)	T	alpha-BHC	0.000	0.000	0	0	N.D.	N.D.
4)	T	gamma-BHC	0.000	0.000	0	0	N.D.	N.D.
5)	T	Beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6)	T	Delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	T	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
8)	T	Aldrin	0.000	0.000	0	0	N.D.	N.D.
9)	T	Alachlor	0.000	0.000	0	0	N.D.	N.D.
10)	T	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
11)	T	Y-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
12)	T	A-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
13)	T	4,4-DDE	0.000	0.000	0	0	N.D. d	N.D. d
14)	T	Endo-I	0.000	0.000	0	0	N.D.	N.D.
15)	T	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
16)	T	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
17)	T	4,4-DDD	0.000	0.000	0	0	N.D. d	N.D. d
18)	T	Endo-II	0.000	0.000	0	0	N.D. d	N.D. d
19)	T	4,4-DDT	0.000	0.000	0	0	N.D. d	N.D. d
20)	T	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
21)	T	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
22)	T	End Sulf	0.000	0.000	0	0	N.D. d	N.D. d
23)	T	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
25)	L8	Chlordane{1}	0.000	0.000	0	0	N.D. d	N.D. d
26)	L8	Chlordane{2}	0.000	0.000	0	0	N.D. d	N.D. d
27)	L8	Chlordane{3}	0.000	0.000	0	0	N.D. d	N.D. d
28)	L8	Chlordane{4}	0.000	0.000	0	0	N.D. d	N.D. d
29)	L8	Chlordane{5}	0.000	0.000	0	0	N.D. d	N.D. d
		Sum Chlordane			0	0	N.D.	N.D.
Average		Chlordane					0.000	0.000
30)	H	Toxaphene	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

PCBs

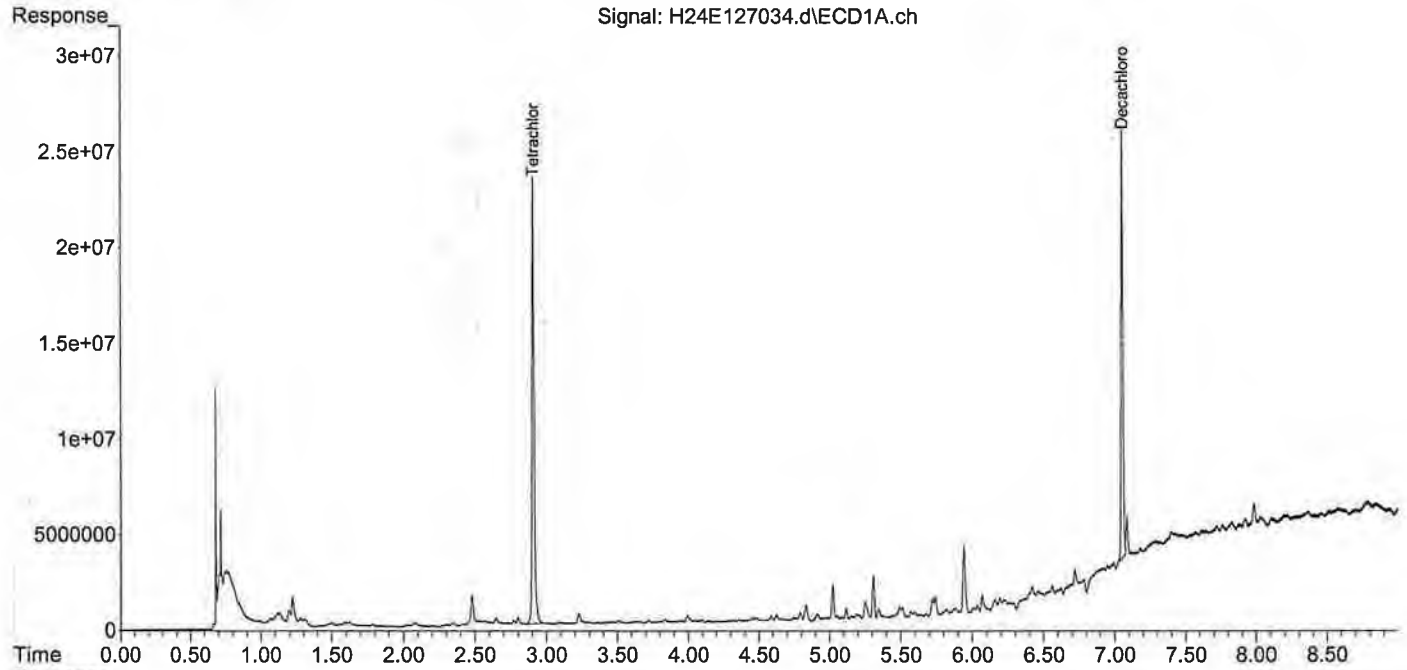
CHECKED BY:
MAY 16 2024
Todd Gionfriddo

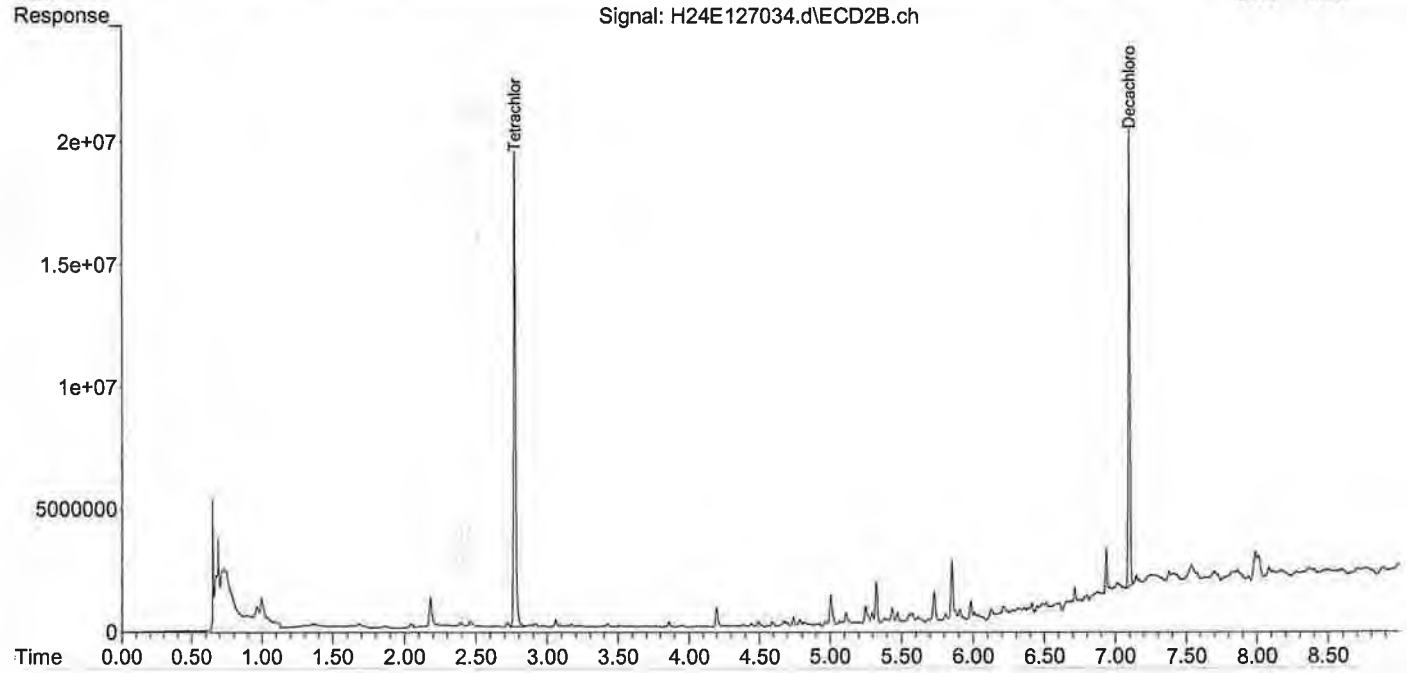
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127034.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 3:29 pm
Operator : PJG
Sample : 24E1437-17@20X FLOR TBA Inst : ECD 8
Misc :
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 16 09:00:31 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



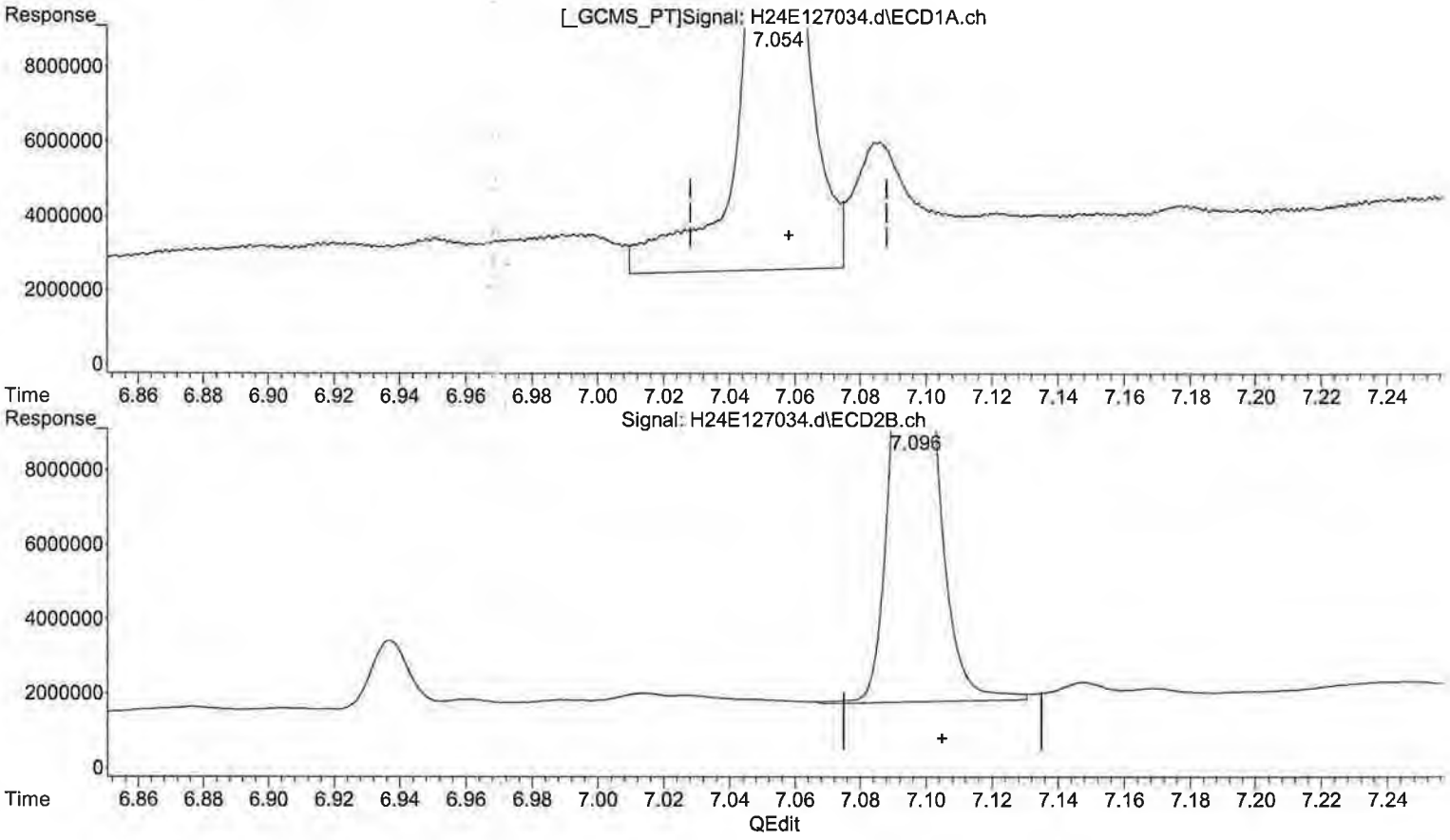


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127034.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 3:29 pm
Operator : PJG
Sample : 24E1437-17@20X FLOR TBA Inst : ECD 8
Misc :
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:12:22 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(24) Decachlorobiphenyl (S)

7.054min 10.493 ug/L

response 232919655

(24) Decachlorobiphenyl #2 (S)

7.097min 9.208 ug/L

response 146186404

CHECKED BY:
MAY 16 2024
Todd Glonfridde

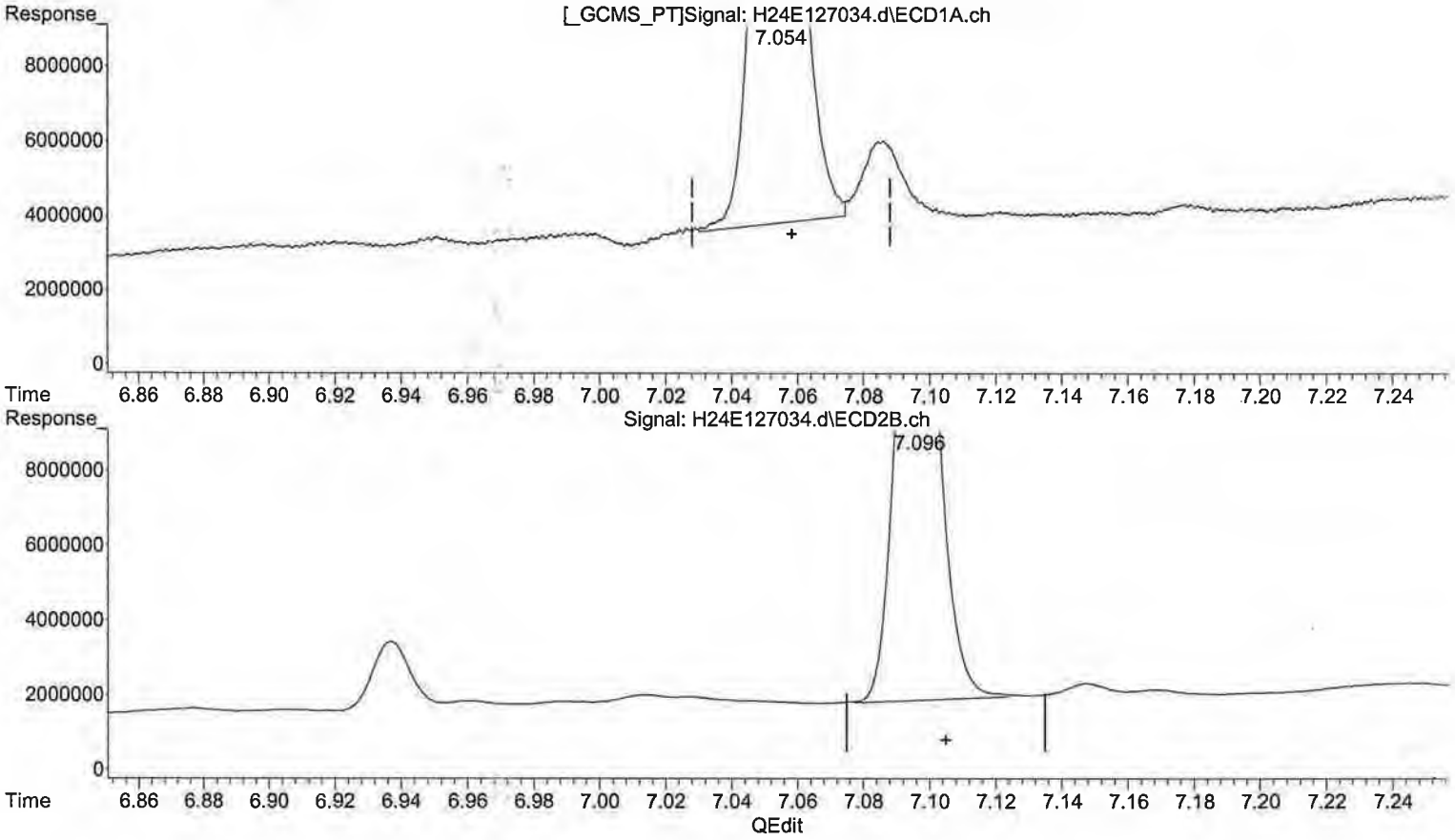
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127034.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 3:29 pm
Operator : PJG
Sample : 24E1437-17@20X FLOR TBA Inst : ECD 8
Misc :
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:12:22 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(24) Decachlorobiphenyl (S)

7.054min 8.492 ug/L m

response 188504213

(24) Decachlorobiphenyl #2 (S)

7.096min 9.002 ug/L m

response 142918706

CHECKED BY:
MAY 16 2024
Todd Gionfriddo

(+) = Expected Retention Time

1 - FORM I
ANALYSIS DATA SHEET

SB7

Laboratory:	Pace New England			SDG:	24E1437
Client:	NYS Division of Environmental Rer			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-17RE1	File ID:	H24E127050.d
Sampled:	05/08/24 15:39	Prepared:	05/10/24 15:22	Analyzed:	05/14/24 18:40
Solids:	69.34	Preparation:	SW-846 3546	Dilution:	20
Batch:	B374053	Sequence:	S104592	Calibration:	2400548
Instrument:	ECD 8				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
7421-93-4	Endrin Aldehyde		0.054	0.22	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127050.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 6:40 pm
Operator : PJG
Sample : 24E1437-17RE1@20X FLOR Inst : ECD 8
Misc :
ALS Vial : 50 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 16 09:13:05 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
		System Monitoring Compounds							
1)	S	Tetrachlo...	2.906	2.769	252.8E6	177.3E6	9.206	8.862	
24)	S	Decachlor...	7.054	7.096	195.3E6	144.3E6	8.799m	9.090m	
		Target Compounds							
2)	T	Hexachlor...	3.232	3.165f	9506451	1250048	0.315	0.056	#
3)	T	alpha-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)	T	gamma-BHC	0.000	0.000	0	0	N.D.	N.D.	
5)	T	Beta-BHC	3.720f	3.628f	2430343	2208336	0.152	0.195	#
6)	T	Delta-BHC	3.828	0.000	6204531	0	0.176	N.D.	#
7)	T	Heptachlor	3.999f	0.000	2738951	0	0.076	N.D.	#
8)	T	Aldrin	0.000	0.000	0	0	N.D.	N.D.	
9)	T	Alachlor	4.355f	0.000	1162485	0	0.274	N.D.	#
10)	T	Heptachlo...	4.753	4.592	1773672	1866556	0.056	0.081	#
11)	T	Y-Chlordane	4.835f	4.742	11995915	3661656	0.352	0.154	#
12)	T	A-Chlordane	4.986f	0.000	3260373	0	0.103	N.D.	#
13)	T	4,4-DDE	5.024	5.003	20241958	16245564	0.652	0.711	
14)	T	Endo-I	5.055f	0.000	1697044	0	0.058	N.D.	#
15)	T	Dieldrin	5.253f	5.111f	14167287	6976683	0.428	0.295	#
16)	T	Endrin	0.000	5.386f	0	2449370	N.D.	0.122	#
17)	T	4,4-DDD	5.513	5.473	4900404	3371492	0.191	0.181	
18)	T	Endo-II	5.679f	5.557	1074888	2942786	0.039	0.147	#
19)	T	4,4-DDT	5.746	5.730	16007915	19378302	0.600	1.002	#
20)	T	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d	
21)	T	Methoxychlor	6.144f	6.274f	4615178	4028363	0.330	0.389	
22)	T	End Sulf	6.288f	6.035	5966444	3285608	0.233	0.175	#
23)	T	Endrin Ke...	6.493	6.414	4765720	3492703	0.157	0.160	
25)	L8	Chlordane{1}	0.000	0.000	0	0	N.D.	N.D.	
26)	L8	Chlordane{2}	3.999f	0.000	2738951	0	1.602	N.D.	#
27)	L8	Chlordane{3}	4.355f	0.000	1162485	0	0.797	N.D.	#
28)	L8	Chlordane{4}	4.835f	4.814	11995915	2755563	2.454	0.737	#
29)	L8	Chlordane{5}	5.608	0.000	4127566	0	3.259	N.D.	#
	Sum	Chlordane			20024917	2755563	8.112	0.737	
Average		Chlordane					2.028	0.737	
30)	H	Toxaphene	5.751	5.623	969.3E6	718.4E6	44.082	42.222	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int

End Ald Only

CHECKED BY:

MAY 16 2024

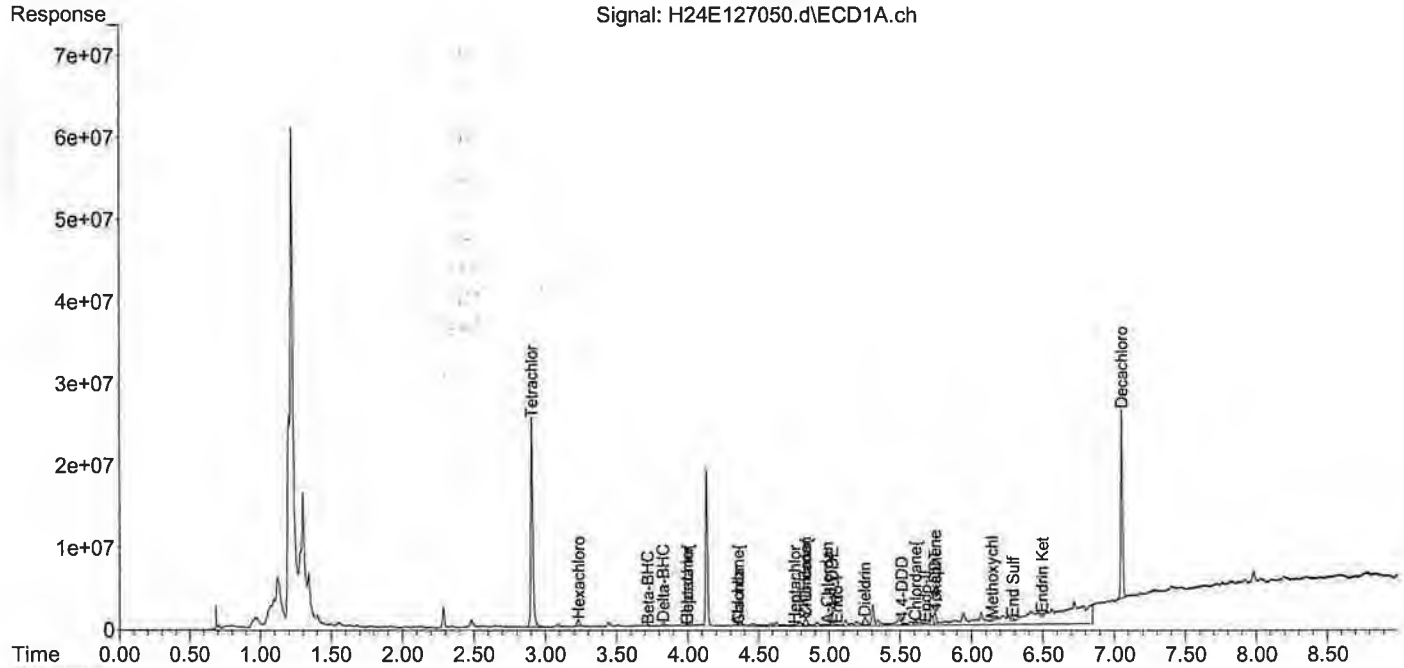
Todd Gionfriddo

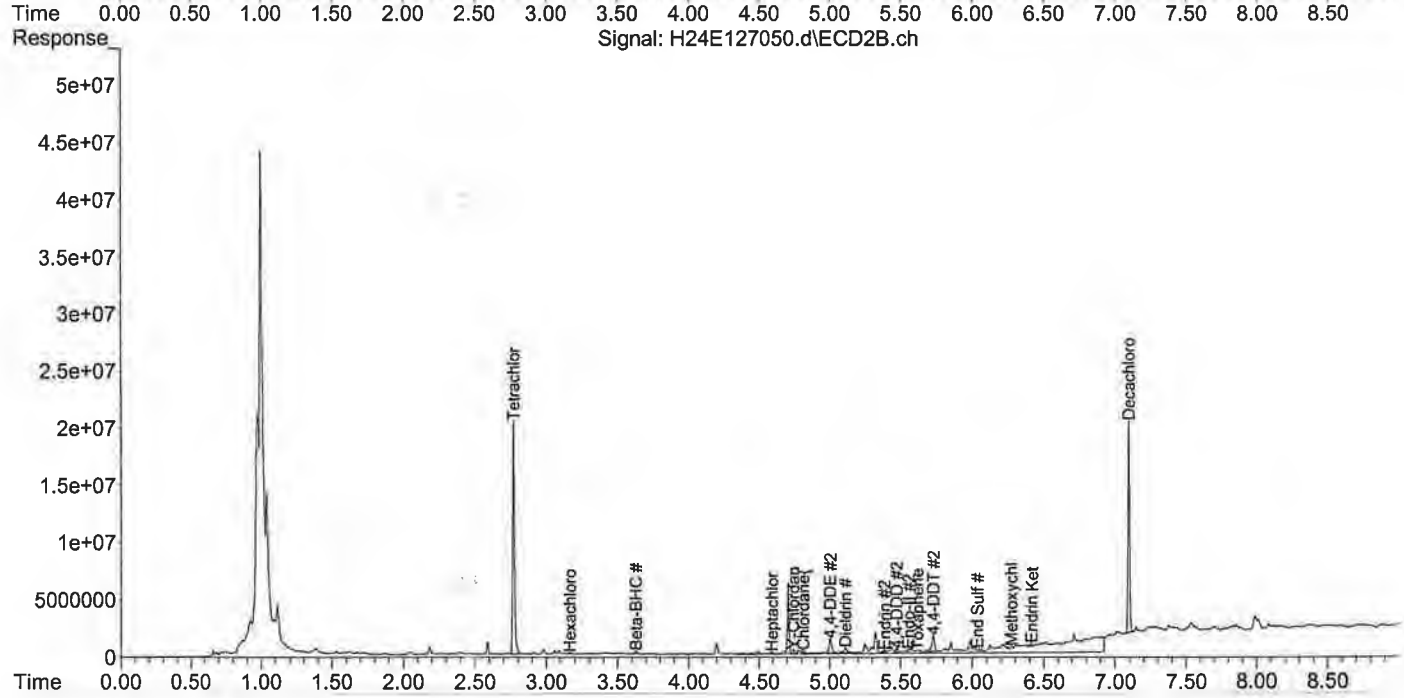
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127050.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 6:40 pm
Operator : PJG
Sample : 24E1437-17RE1@20X FLOR Inst : ECD 8
Misc :
ALS Vial : 50 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 16 09:13:05 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



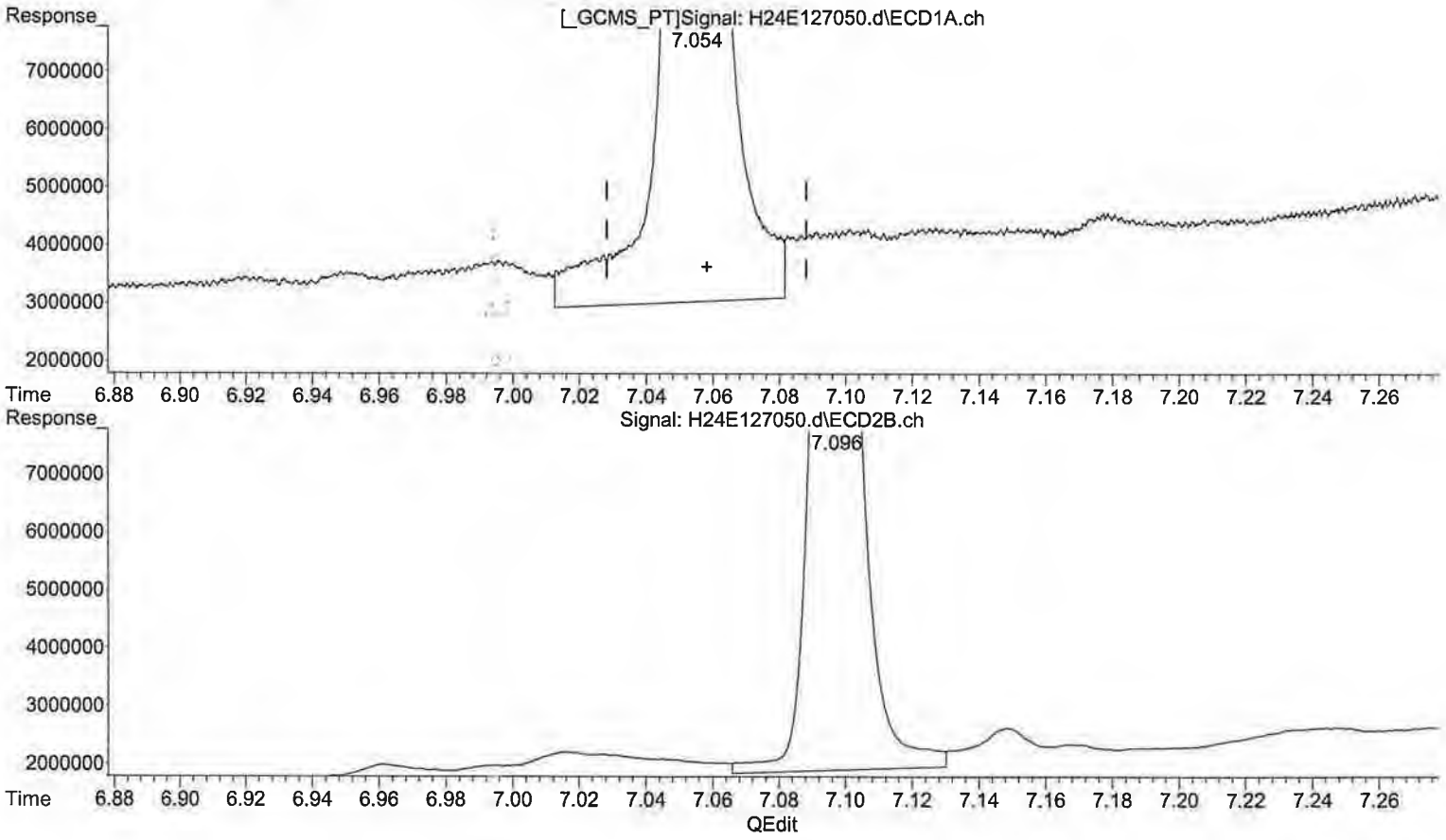


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127050.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 6:40 pm
Operator : PJG
Sample : 24E1437-17RE1@20X FLOR Inst : ECD 8
Misc :
ALS Vial : 50 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:23:28 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(24) Decachlorobiphenyl (S)

7.055min 10.333 ug/L

response 229379283

(24) Decachlorobiphenyl #2 (S)

7.097min 9.642 ug/L

response 153077678

CHECKED BY:

MAY 16 2024

Todd Gionfriddo

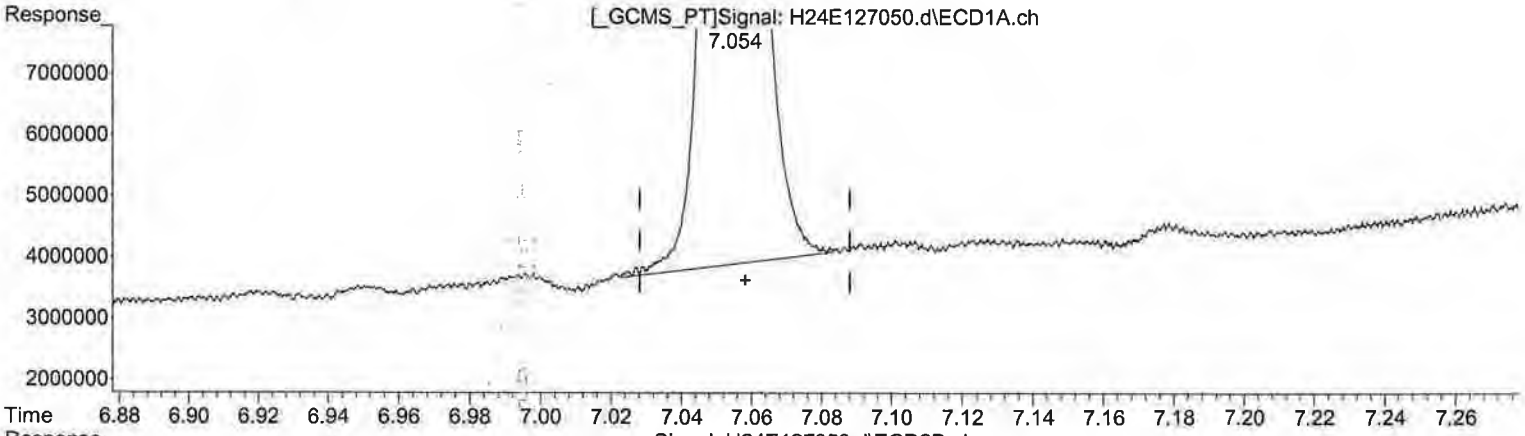
(+) = Expected Retention Time

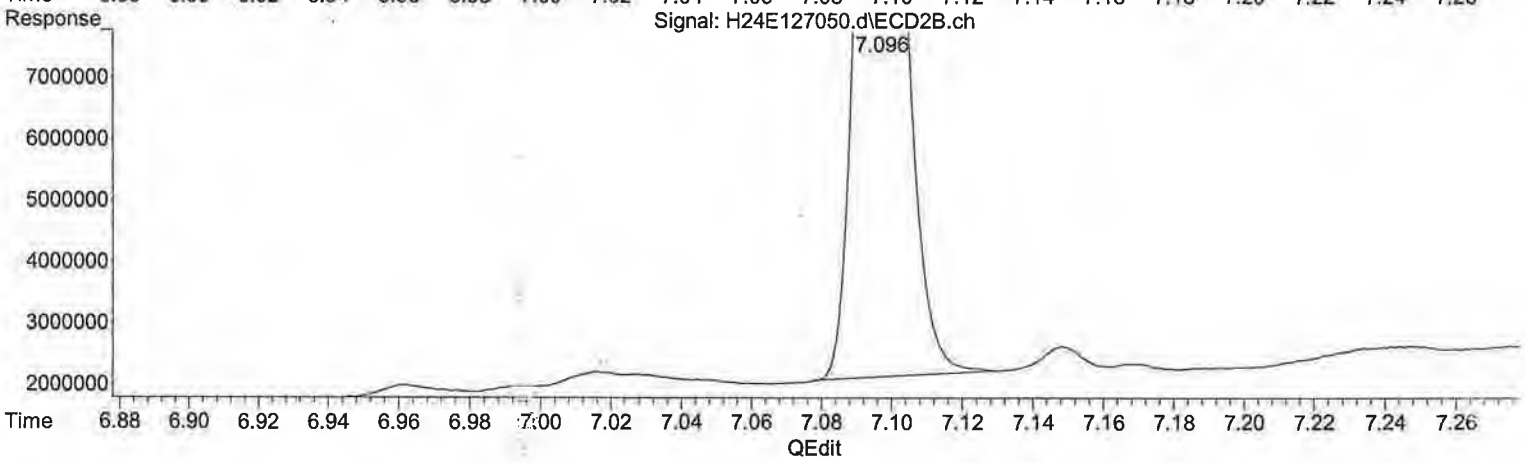
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127050.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 6:40 pm
Operator : PJG
Sample : 24E1437-17RE1@20X FLOR Inst : ECD 8
Misc :
ALS Vial : 50 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:23:28 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





(24) Decachlorobiphenyl (S)

7.054min 8.799 ug/L m

response 195331763

(24) Decachlorobiphenyl #2 (S)

7.096min 9.090 ug/L m

response 144302016

CHECKED BY:

MAY 16 2024

Todd Gionfriddo

(+) = Expected Retention Time

1 - FORM I
ANALYSIS DATA SHEET

DUP

Laboratory:	Pace New England			SDG:	24E1437
Client:	NYS Division of Environmental Rer			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-19	File ID:	H24E127035.d
Sampled:	05/08/24 15:45	Prepared:	05/10/24 15:22	Analyzed:	05/14/24 15:41
Solids:	69.57	Preparation:	SW-846 3546	Dilution:	10
Batch:	B374053	Sequence:	S104592	Calibration:	2400548
Instrument:	ECD 8				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
5103-71-9	alpha-Chlordane		0.033	0.071	
5103-74-2	gamma-Chlordane		0.031	0.071	
309-00-2	Aldrin		0.0069	0.071	
319-84-6	alpha-BHC		0.033	0.071	
319-85-7	beta-BHC		0.038	0.071	
319-86-8	delta-BHC		0.037	0.071	
58-89-9	gamma-BHC (Lindane)		0.0098	0.028	
72-54-8	4,4'-DDD		0.012	0.056	
72-55-9	4,4'-DDE		0.0062	0.056	
50-29-3	4,4'-DDT		0.0073	0.056	
60-57-1	Dieldrin		0.0067	0.056	
959-98-8	Endosulfan I		0.034	0.071	
33213-65-9	Endosulfan II		0.030	0.11	
1031-07-8	Endosulfan Sulfate		0.027	0.11	
72-20-8	Endrin		0.036	0.11	
53494-70-5	Endrin Ketone		0.028	0.11	
76-44-8	Heptachlor		0.0078	0.071	
1024-57-3	Heptachlor Epoxide		0.0082	0.071	
72-43-5	Methoxychlor [2C]		0.068	0.71	
8001-35-2	Toxaphene		0.59	1.4	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127035.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 3:41 pm
Operator : PJG
Sample : 24E1437-19@10X FLOR TBA Inst : ECD 8
Misc :
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 16 09:01:37 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
		System Monitoring Compounds						
1)	S	Tetrachlo...	2.906	2.769	379.6E6	270.4E6	13.824	13.518
24)	S	Decachlor...	7.055	7.097	297.3E6	224.2E6	13.392m	14.123
		Target Compounds						
2)	T	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
3)	T	alpha-BHC	0.000	0.000	0	0	N.D.	N.D.
4)	T	gamma-BHC	0.000	0.000	0	0	N.D.	N.D.
5)	T	Beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6)	T	Delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	T	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
8)	T	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
9)	T	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
10)	T	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
11)	T	Y-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
12)	T	A-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
13)	T	4,4-DDE	0.000	0.000	0	0	N.D. d	N.D. d
14)	T	Endo-I	0.000	0.000	0	0	N.D. d	N.D. d
15)	T	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
16)	T	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
17)	T	4,4-DDD	0.000	0.000	0	0	N.D. d	N.D. d
18)	T	Endo-II	0.000	0.000	0	0	N.D. d	N.D. d
19)	T	4,4-DDT	0.000	0.000	0	0	N.D. d	N.D. d
20)	T	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
21)	T	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
22)	T	End Sulf	0.000	0.000	0	0	N.D. d	N.D. d
23)	T	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
25)	L8	Chlordane{1}	0.000	0.000	0	0	N.D. d	N.D. d
26)	L8	Chlordane{2}	0.000	0.000	0	0	N.D. d	N.D. d
27)	L8	Chlordane{3}	0.000	0.000	0	0	N.D. d	N.D. d
28)	L8	Chlordane{4}	0.000	0.000	0	0	N.D. d	N.D. d
29)	L8	Chlordane{5}	0.000	0.000	0	0	N.D. d	N.D. d
		Sum Chlordane			0	0	N.D.	N.D.
Average		Chlordane					0.000	0.000
30)	H	Toxaphene	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

CHECKED BY:

MAY 16 2024

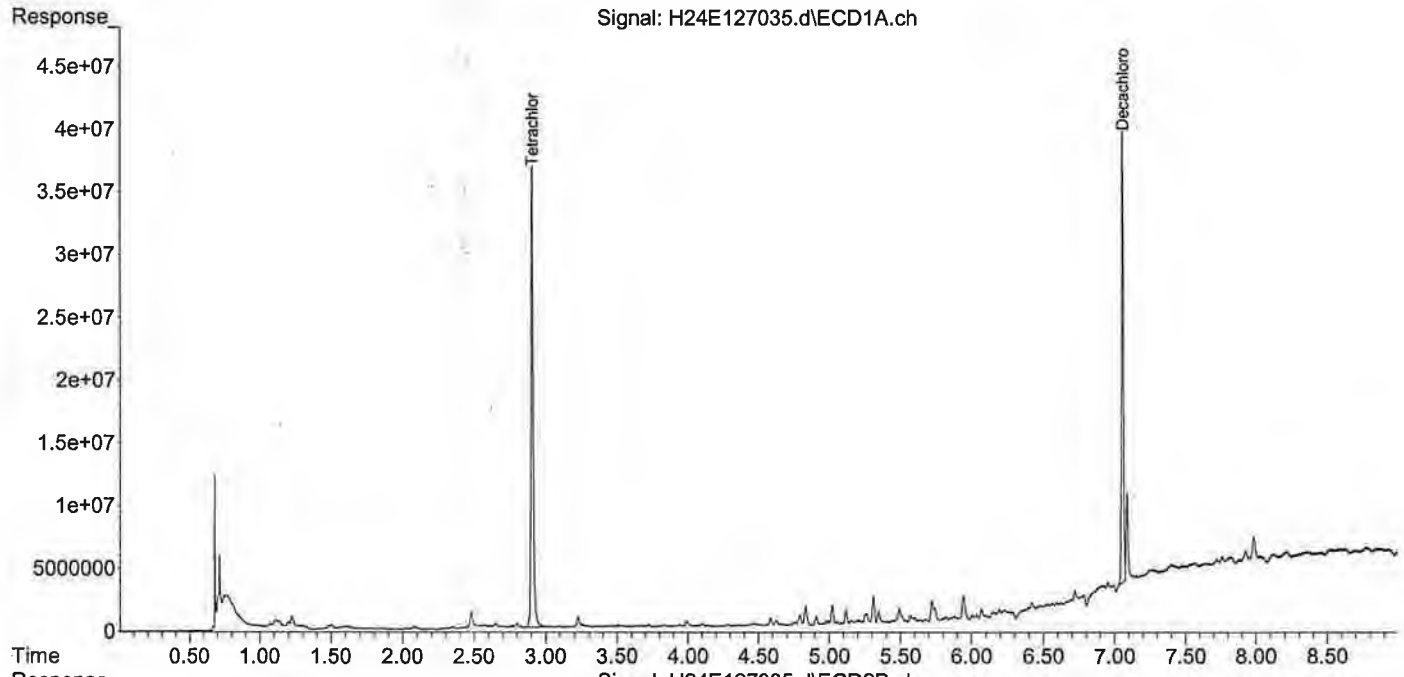
Todd Gionfriddo

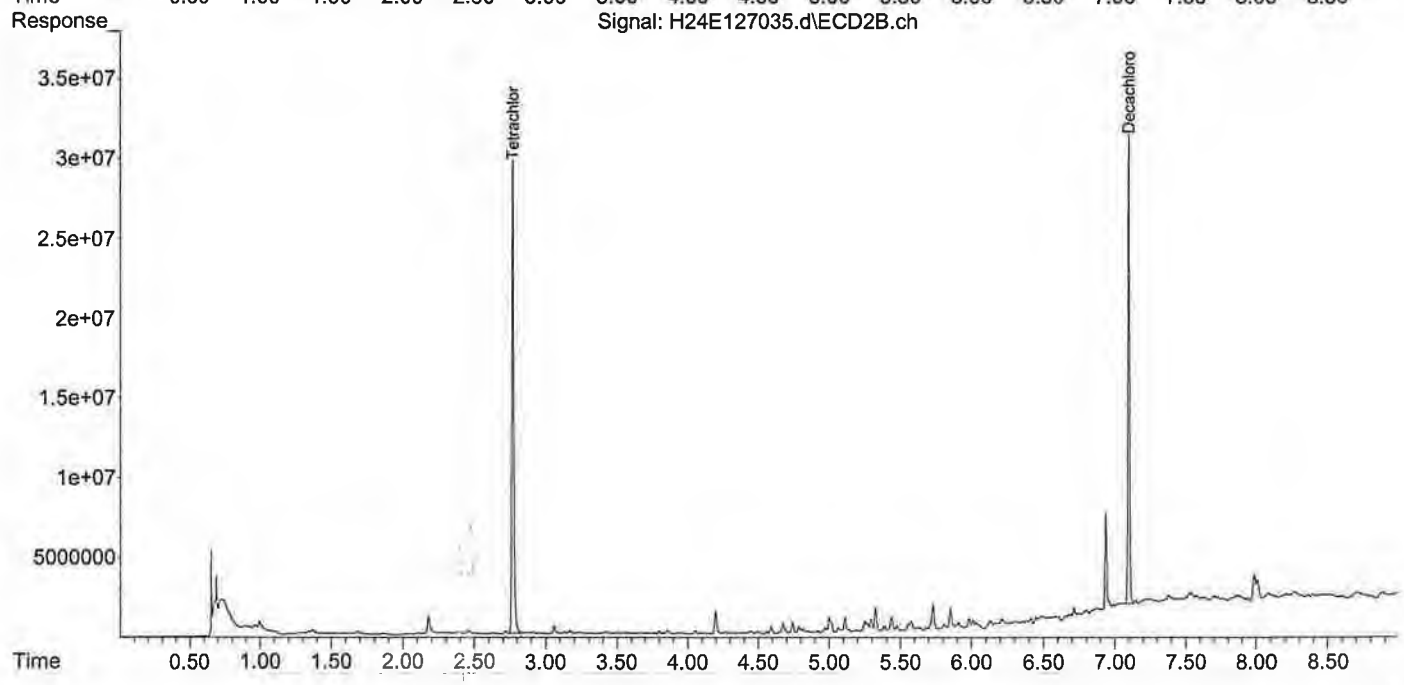
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127035.d
Signal(s) : Signal #1: ECD1A.ch, Signal #2: ECD2B.ch
Acq On : 14 May 2024 3:41 pm
Operator : PJG
Sample : 24E1437-19@10X FLOR TBA Inst : ECD 8
Misc :
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 16 09:01:37 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





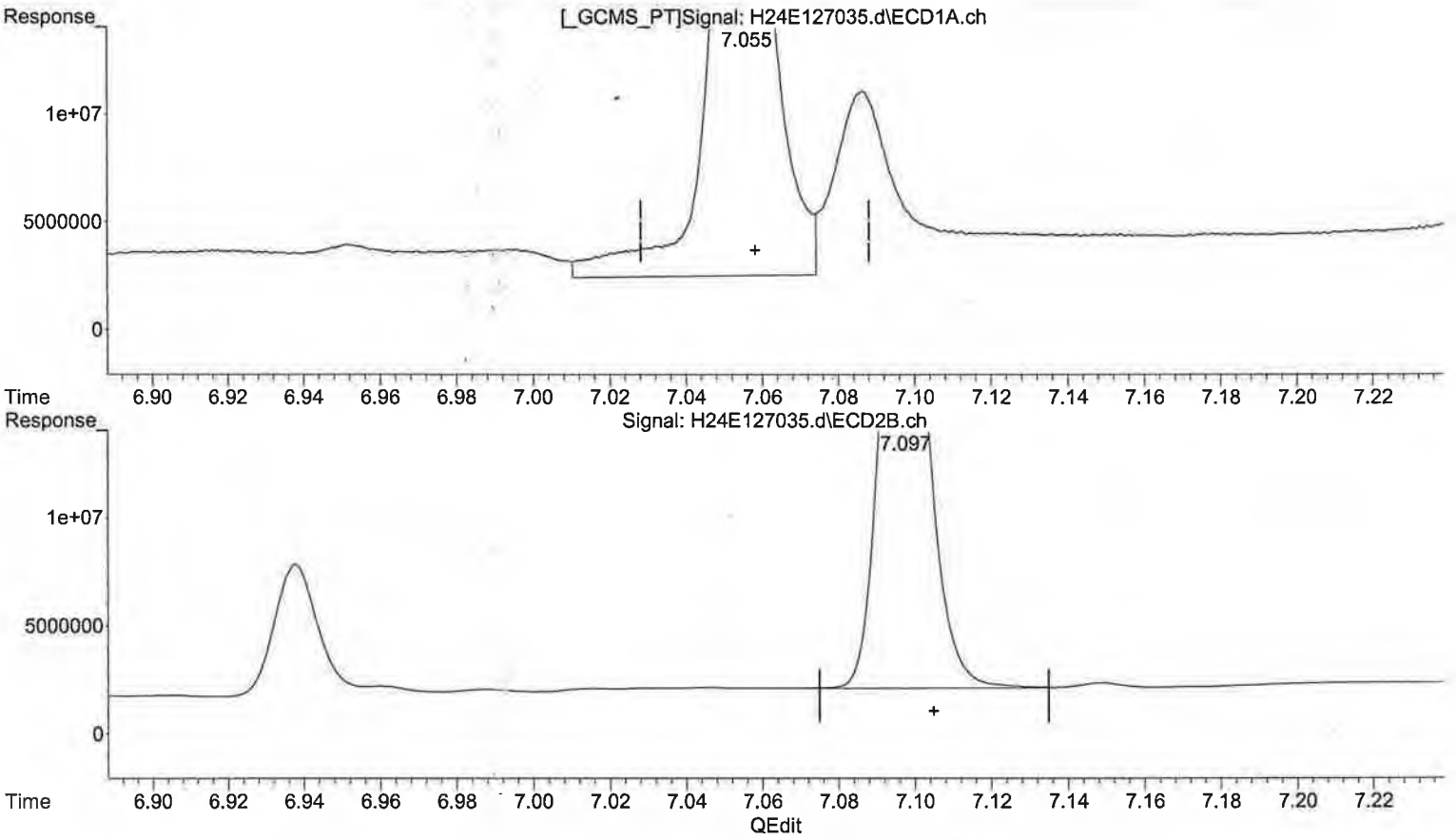
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127035.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 3:41 pm
Operator : PJG
Sample : 24E1437-19@10X FLOR TBA Inst : ECD 8
Misc :
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:12:26 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

3



(24) Decachlorobiphenyl (S)

7.055min 15.639 ug/L

response 347166765

(24) Decachlorobiphenyl #2 (S)

7.097min 14.123 ug/L

response 224208782

CHECKED BY:

MAY 16 2024

Todd Glonfridde

(+) = Expected Retention Time

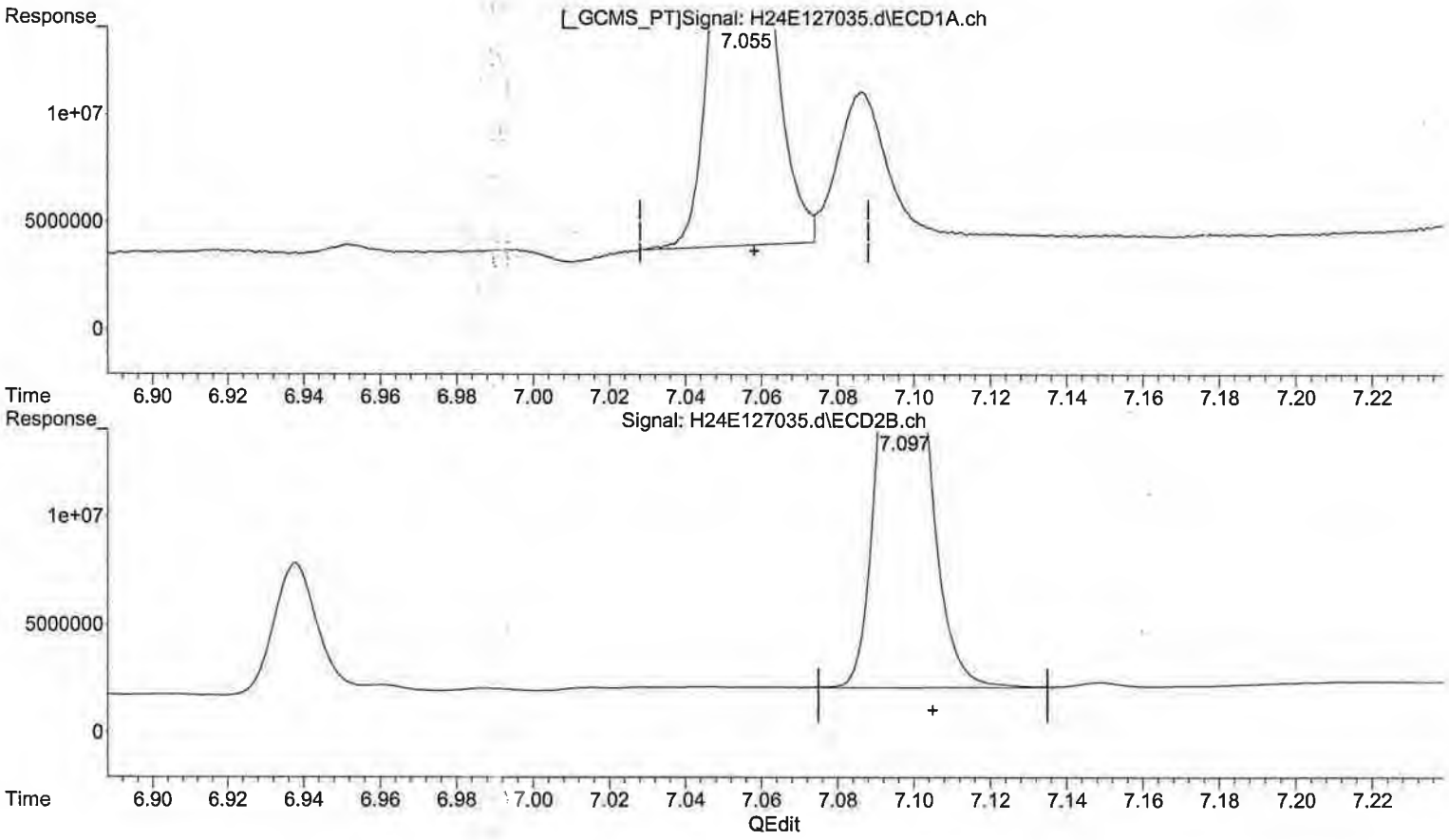
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127035.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 3:41 pm
Operator : PJG
Sample : 24E1437-19@10X FLOR TBA Inst : ECD 8
Misc :
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:12:26 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

4



(24) Decachlorobiphenyl (S)

7.055min 13.392 ug/L m

response 297288704

(24) Decachlorobiphenyl #2 (S)

7.097min 14.123 ug/L

response 224208782

CHECKED BY:

MAY 16 2024

Todd Gionfridde

(+) = Expected Retention Time

1 - FORM I
ANALYSIS DATA SHEET

DUP

Laboratory:	Pace New England			SDG:	24E1437
Client:	NYS Division of Environmental Rer			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-19RE1	File ID:	H24E127051.d
Sampled:	05/08/24 15:45	Prepared:	05/10/24 15:22	Analyzed:	05/14/24 18:52
Solids:	69.57	Preparation:	SW-846 3546	Dilution:	10
Batch:	B374053	Sequence:	S104592	Calibration:	2400548
Instrument:	ECD 8				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
7421-93-4	Endrin Aldehyde		0.028	0.11	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127051.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 6:52 pm
Operator : PJG
Sample : 24E1437-19RE1@10X FLOR Inst : ECD 8
Misc :
ALS Vial : 51 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 16 09:13:52 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
		System Monitoring Compounds						
1)	S	Tetrachlo...	2.905	2.768	387.1E6	282.2E6	14.094	14.107
24)	S	Decachlor...	7.054	7.096	310.0E6	232.2E6	13.963m	14.624m
		Target Compounds						
2)	T	Hexachlor...	3.226	3.165f	10287437	1973584	0.341	0.089 #
3)	T	alpha-BHC	0.000	3.285f	0	1136681	N.D.	0.040 #
4)	T	gamma-BHC	3.654f	0.000	2187596	0	0.058	N.D. #
5)	T	Beta-BHC	3.680f	3.628f	1887699	1545546	0.118	0.137
6)	T	Delta-BHC	3.854	0.000	1591169	0	0.045	N.D. #
7)	T	Heptachlor	3.996f	0.000	4682987	0	0.130	N.D. #
8)	T	Aldrin	4.282f	0.000	1618039	0	0.046	N.D. #
9)	T	Alachlor	4.353f	4.055	1810169	2265160	0.426	0.771 #
10)	T	Heptachlo...	4.752	4.593	3188637	4515225	0.101	0.196 #
11)	T	Y-Chlordane	4.834f	4.743	19670111	6850657	0.577	0.288 #
12)	T	A-Chlordane	4.984f	0.000	4646916	0	0.147	N.D. #
13)	T	4,4-DDE	5.022	5.004	17671293	14059976	0.569	0.615
14)	T	Endo-I	5.088	0.000	1547051	0	0.053	N.D. #
15)	T	Dieldrin	5.259f	5.111f	15150890	7828167	0.458	0.331 #
16)	T	Endrin	0.000	5.386f	0	3455430	N.D.	0.173 #
17)	T	4,4-DDD	0.000	5.473	0	3290946	N.D.	0.177 #
18)	T	Endo-II	5.636f	5.558	2413180	3940477	0.088	0.197 #
19)	T	4,4-DDT	5.744	5.730	11912330	23700093	0.447	1.226 #
20)	T	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
21)	T	Methoxychlor	6.107f	6.273f	2205299	1631178	0.158	0.157
22)	T	End Sulf	6.278f	6.034	6523190	4250488	0.255	0.226
23)	T	Endrin Ke...	6.494	6.414	7149861	2789848	0.235	0.128 #
25)	L8	Chlordane{1}	0.000	0.000	0	0	N.D.	N.D.
26)	L8	Chlordane{2}	3.996f	0.000	4682987	0	2.739	N.D. #
27)	L8	Chlordane{3}	4.353f	4.264	1810169	1073528	1.241	1.062
28)	L8	Chlordane{4}	4.834f	4.815	19670111	2876361	4.023	0.769 #
29)	L8	Chlordane{5}	5.599	0.000	7449088	0	5.882	N.D. #
		Sum Chlordane			33612354	3949889	13.885	1.831
		Average Chlordane					3.471	0.916
30)	H	Toxaphene	5.751	5.623	1053.8E6	705.6E6	47.924	41.471

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int

End A&L Only

CHECKED BY:

MAY 16 2024

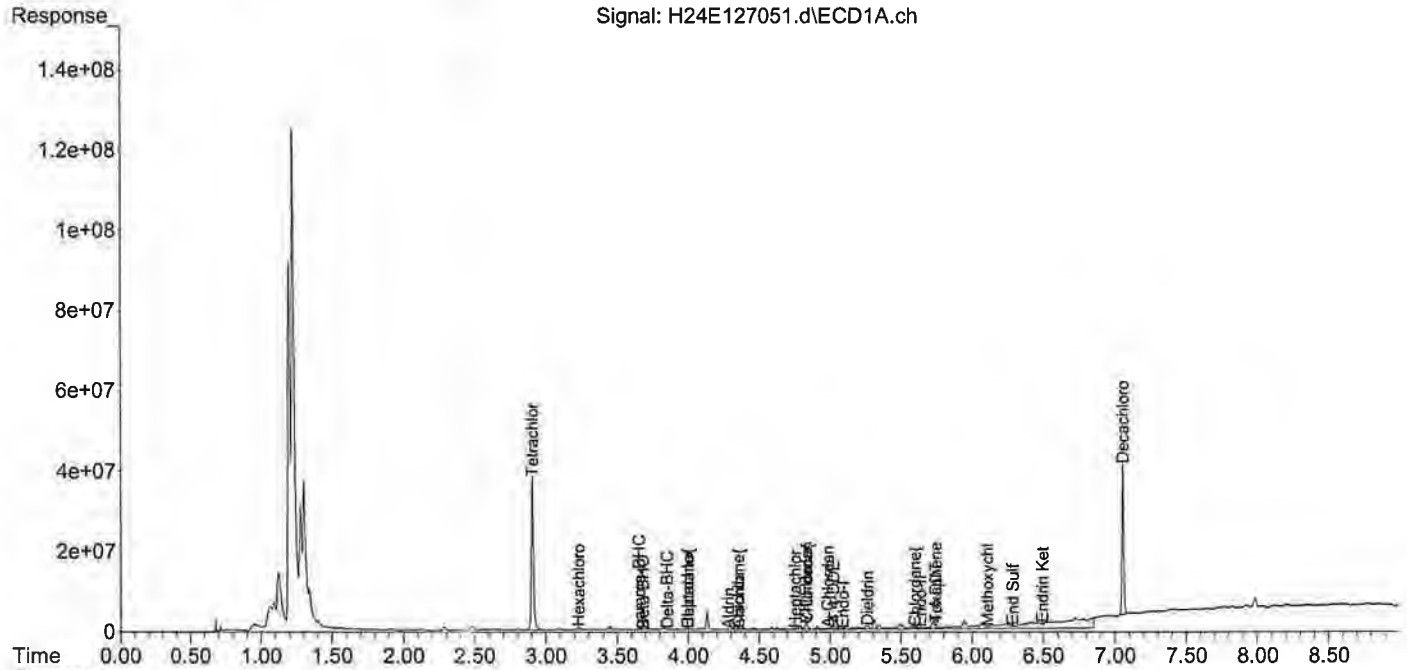
Todd Glonfridde

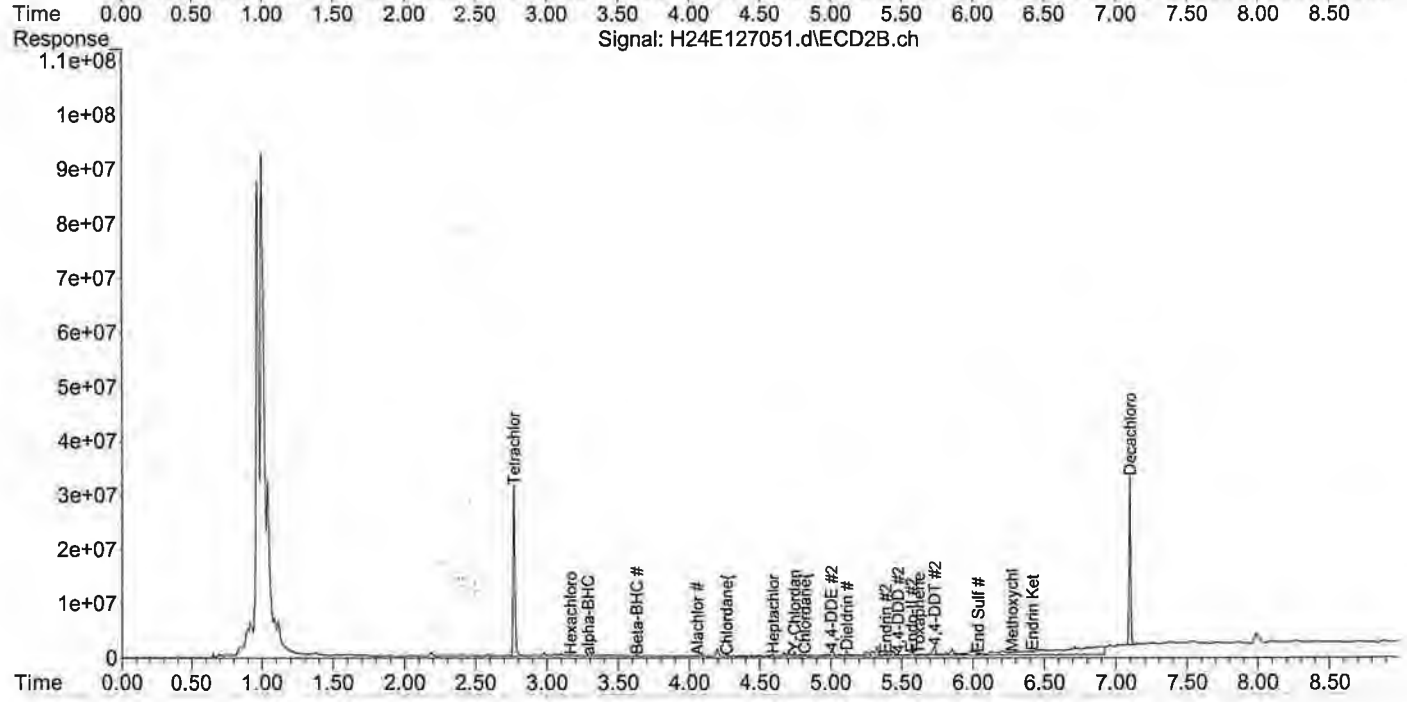
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127051.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 6:52 pm
Operator : PJG
Sample : 24E1437-19RE1@10X FLOR Inst : ECD 8
Misc :
ALS Vial : 51 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 16 09:13:52 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



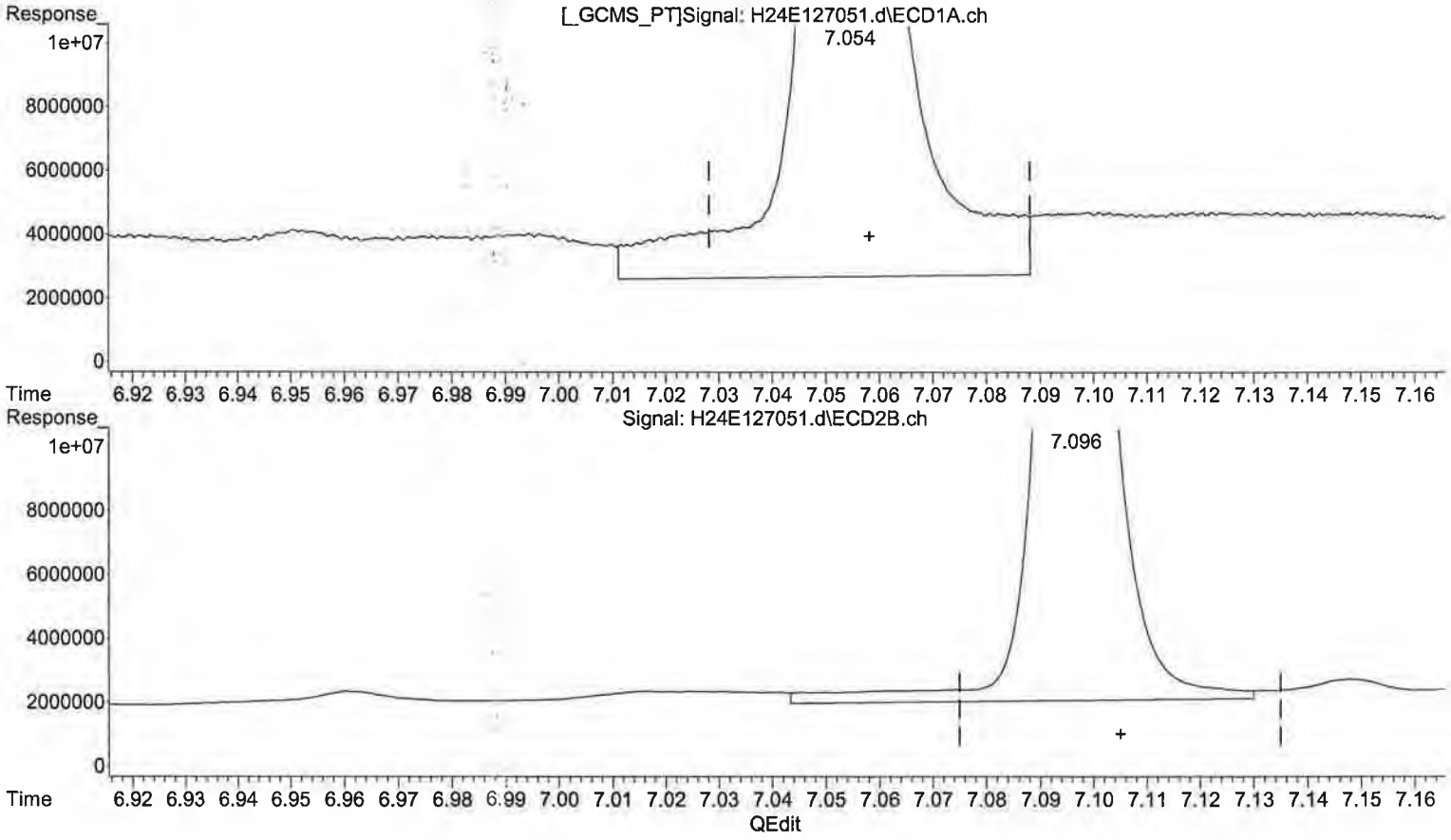


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127051.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 6:52 pm
Operator : PJG
Sample : 24E1437-19RE1@10X FLOR Inst : ECD 8
Misc :
ALS Vial : 51 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:23:42 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(24) Decachlorobiphenyl (S)

7.055min 17.139 ug/L

response 380457538

(24) Decachlorobiphenyl #2 (S)

7.097min 15.621 ug/L

response 247999166

CHECKED BY:
MAY 16 2024
Todd Gionfriddo

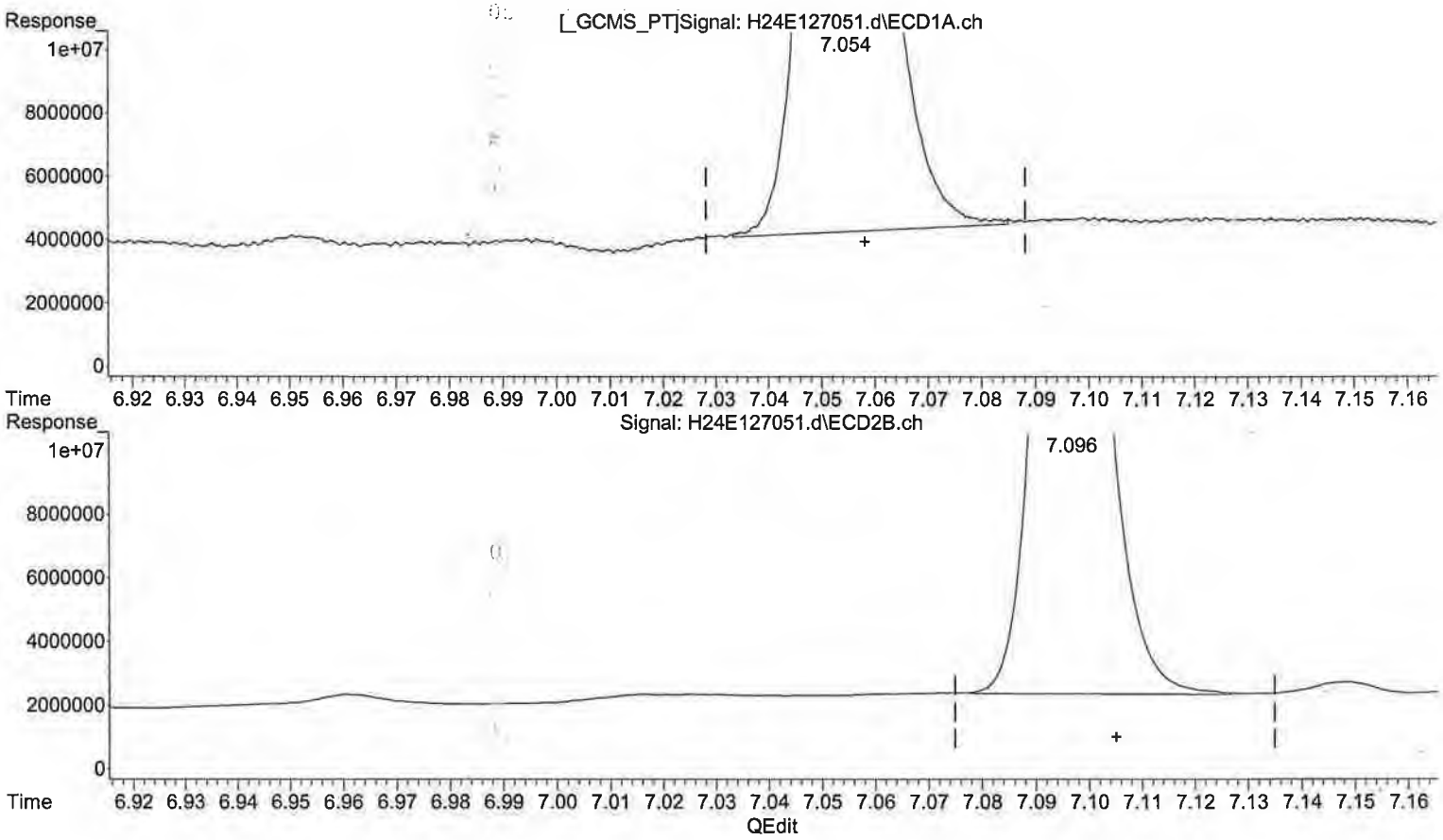
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127051.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 6:52 pm
Operator : PJG
Sample : 24E1437-19RE1@10X FLOR Inst : ECD 8
Misc :
ALS Vial : 51 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:23:42 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(24) Decachlorobiphenyl (S)

7.054min 13.963 ug/L m

response 309954354

(24) Decachlorobiphenyl #2 (S)

7.096min 14.624 ug/L m

response 232157732

4

CHECKED BY:

MAY 16 2024

Todd Gionfriddo

(+) = Expected Retention Time

QC DATA

2 - FORM II

SYSTEM MONITORING COMPOUND SUMMARY

SW-846 8081B

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Instrument:	ECD 8

	DCB 1 (30% - 150%)	DCB 2 (30% - 150%)	TCX 1 (30% - 150%)	TCX 2 (30% - 150%)
24E1437-02	59.6	65.1	66.8	67.2
24E1437-02RE1	62.7	66.5	66.7	67.2
24E1437-04	86.3	91.6	91.7	90.5
24E1437-04RE1	87.9	92.8	93.1	92.4
24E1437-06	66.2	71.4	62.1	64.2
24E1437-06RE1	66.1	71.8	63.8	64.4
24E1437-12	77.2	81.3	78.1	78.6
24E1437-12RE1	82.4	87.1	81.6	80.6
24E1437-17	84.9	90.0	87.9	87.5
24E1437-17RE1	88.0	90.9	92.1	88.6
24E1437-19	67.0	70.6	69.1	67.6
24E1437-19RE1	69.8	73.1	70.5	70.5
B374053-BLK1	66.1	69.4	59.5	61.8
B374053-BS1	88.0	94.3	75.3	77.7
B374053-BSD1	105	110	93.2	96.0
B374053-MS1	71.9	76.4	73.0	75.3
B374053-MSD1	88.7	95.2	83.9	85.8

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SB1A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Analysis:	SW-846 8081B
Batch:	B374053	Preparation:	SW-846 3546
% Solids:	72.51	Laboratory ID:	B374053-MS1
Initial/Final:	10.4 g / 10 mL	Sample Lab ID:	24E1437-06
Column:	1		

ANALYTE	SPIKE ADDED (mg/Kg dry)	SAMPLE CONCENTRATION (mg/Kg dry)	MS CONCENTRATION (mg/Kg dry)	MS % REC.	QC LIMITS REC.
Aldrin	0.133	ND	0.10	77.7	30 - 150
alpha-BHC	0.133	ND	0.11	82.1	30 - 150
beta-BHC	0.133	ND	0.093	69.9	30 - 150
delta-BHC	0.133	ND	0.099	75.0	30 - 150
gamma-BHC (Lindane)	0.133	ND	0.10	76.7	30 - 150
4,4'-DDD	0.133	ND	0.12	94.0	30 - 150
4,4'-DDE	0.133	ND	0.11	81.4	30 - 150
4,4'-DDT	0.133	ND	0.080	60.4	30 - 150
Dieldrin	0.133	ND	0.11	81.3	30 - 150
Endosulfan I	0.133	ND	0.11	80.4	30 - 150
Endosulfan II	0.133	ND	0.10	77.1	30 - 150
Endosulfan Sulfate	0.133	ND	0.081	60.8	30 - 150
Endrin	0.133	ND	0.11	86.0	30 - 150
Endrin Aldehyde	0.133	ND	0.069	52.1	30 - 150
Endrin Ketone	0.133	ND	0.099	74.5	30 - 150
Heptachlor	0.133	ND	0.11	80.1	30 - 150
Heptachlor Epoxide	0.133	ND	0.10	78.6	30 - 150
Methoxychlor	0.133	ND	0.069	52.3	30 - 150

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SB1A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Analysis:	SW-846 8081B
Batch:	B374053	Preparation:	SW-846 3546
% Solids:	72.51	Laboratory ID:	B374053-MSD1
Initial/Final:	10.42 g / 10 mL	Sample Lab ID:	24E1437-06
Column:	1		

ANALYTE	SPIKE ADDED (mg/Kg dry)	MSD CONCENTRATION (mg/Kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
Aldrin	0.132	0.12	88.8	13.1	30	30 - 150
alpha-BHC	0.132	0.12	88.7	7.46	30	30 - 150
beta-BHC	0.132	0.10	76.0	8.12	30	30 - 150
delta-BHC	0.132	0.10	77.6	3.25	30	30 - 150
gamma-BHC (Lindane)	0.132	0.11	82.0	6.49	30	30 - 150
4,4'-DDD	0.132	0.14	103	8.75	30	30 - 150
4,4'-DDE	0.132	0.12	93.0	13.1	30	30 - 150
4,4'-DDT	0.132	0.096	72.4	17.8	30	30 - 150
Dieldrin	0.132	0.12	88.6	8.49	30	30 - 150
Endosulfan I	0.132	0.12	87.6	8.38	30	30 - 150
Endosulfan II	0.132	0.11	82.0	5.99	30	30 - 150
Endosulfan Sulfate	0.132	0.082	61.7	1.25	30	30 - 150
Endrin	0.132	0.13	95.0	9.73	30	30 - 150
Endrin Aldehyde	0.132	0.083	63.1	18.9	30	30 - 150
Endrin Ketone	0.132	0.10	79.0	5.71	30	30 - 150
Heptachlor	0.132	0.12	87.7	8.94	30	30 - 150
Heptachlor Epoxide	0.132	0.12	90.0	13.3	30	30 - 150
Methoxychlor	0.132	0.081	61.4	15.9	30	30 - 150

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SB1A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Analysis:	SW-846 8081B
Batch:	B374053	Preparation:	SW-846 3546
% Solids:	72.51	Laboratory ID:	B374053-MS1
Initial/Final:	10.4 g / 10 mL	Sample Lab ID:	24E1437-06
Column:	2		

ANALYTE	SPIKE ADDED (mg/Kg dry)	SAMPLE CONCENTRATION (mg/Kg dry)	MS CONCENTRATION (mg/Kg dry)	MS % REC.	QC LIMITS REC.
Aldrin [2C]	0.133	ND	0.11	82.0	30 - 150
alpha-BHC [2C]	0.133	ND	0.11	83.2	30 - 150
beta-BHC [2C]	0.133	ND	0.098	73.6	30 - 150
delta-BHC [2C]	0.133	ND	0.10	75.6	30 - 150
gamma-BHC (Lindane) [2C]	0.133	ND	0.11	81.4	30 - 150
4,4'-DDD [2C]	0.133	ND	0.13	99.4	30 - 150
4,4'-DDE [2C]	0.133	ND	0.11	86.1	30 - 150
4,4'-DDT [2C]	0.133	ND	0.081	60.9	30 - 150
Dieldrin [2C]	0.133	ND	0.11	86.4	30 - 150
Endosulfan I [2C]	0.133	ND	0.11	85.5	30 - 150
Endosulfan II [2C]	0.133	ND	0.12	86.9	30 - 150
Endosulfan Sulfate [2C]	0.133	ND	0.10	77.6	30 - 150
Endrin [2C]	0.133	ND	0.12	88.6	30 - 150
Endrin Aldehyde [2C]	0.133	ND	0.076	57.4	30 - 150
Endrin Ketone [2C]	0.133	ND	0.10	77.8	30 - 150
Heptachlor [2C]	0.133	ND	0.11	82.5	30 - 150
Heptachlor Epoxide [2C]	0.133	ND	0.11	80.9	30 - 150
Methoxychlor [2C]	0.133	ND	0.083	62.6	30 - 150

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SB1A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Analysis:	SW-846 8081B
Batch:	B374053	Preparation:	SW-846 3546
% Solids:	72.51	Laboratory ID:	B374053-MSD1
Initial/Final:	10.42 g / 10 mL	Sample Lab ID:	24E1437-06
Column:	2		

ANALYTE	SPIKE ADDED (mg/Kg dry)	MSD CONCENTRATION (mg/Kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
Aldrin [2C]	0.132	0.12	94.1	13.5	30	30 - 150
alpha-BHC [2C]	0.132	0.12	90.4	8.06	30	30 - 150
beta-BHC [2C]	0.132	0.11	80.1	8.32	30	30 - 150
delta-BHC [2C]	0.132	0.10	77.8	2.74	30	30 - 150
gamma-BHC (Lindane) [2C]	0.132	0.12	87.4	6.92	30	30 - 150
4,4'-DDD [2C]	0.132	0.15	111	10.5	30	30 - 150
4,4'-DDE [2C]	0.132	0.13	98.7	13.5	30	30 - 150
4,4'-DDT [2C]	0.132	0.097	73.2	18.1	30	30 - 150
Dieldrin [2C]	0.132	0.13	94.9	9.20	30	30 - 150
Endosulfan I [2C]	0.132	0.12	93.1	8.36	30	30 - 150
Endosulfan II [2C]	0.132	0.12	92.1	5.60	30	30 - 150
Endosulfan Sulfate [2C]	0.132	0.10	78.9	1.50	30	30 - 150
Endrin [2C]	0.132	0.13	98.0	9.83	30	30 - 150
Endrin Aldehyde [2C]	0.132	0.093	70.3	20.1	30	30 - 150
Endrin Ketone [2C]	0.132	0.11	83.9	7.27	30	30 - 150
Heptachlor [2C]	0.132	0.12	90.2	8.82	30	30 - 150
Heptachlor Epoxide [2C]	0.132	0.12	92.6	13.3	30	30 - 150
Methoxychlor [2C]	0.132	0.096	72.2	14.0	30	30 - 150

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

SW-846 8081B

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Preparation:	SW-846 3546
Batch:	B374053	Laboratory ID:	B374053-BS1
Column:	1	Initial/Final:	10.05 g / 10 mL

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCS CONCENTRATION (mg/Kg wet)	LCS % REC.	QC LIMITS REC.
alpha-Chlordane	0.0995	0.088	88.7	40 - 140
gamma-Chlordane	0.0995	0.084	84.9	40 - 140
Aldrin	0.0995	0.086	86.7	40 - 140
alpha-BHC	0.0995	0.085	85.4	40 - 140
beta-BHC	0.0995	0.081	81.5	40 - 140
delta-BHC	0.0995	0.085	85.2	40 - 140
gamma-BHC (Lindane)	0.0995	0.082	82.8	40 - 140
4,4'-DDD	0.0995	0.093	93.7	40 - 140
4,4'-DDE	0.0995	0.092	92.5	40 - 140
4,4'-DDT	0.0995	0.091	91.6	40 - 140
Dieldrin	0.0995	0.090	90.6	40 - 140
Endosulfan I	0.0995	0.090	90.0	40 - 140
Endosulfan II	0.0995	0.088	88.0	40 - 140
Endosulfan Sulfate	0.0995	0.070	70.7	40 - 140
Endrin	0.0995	0.095	95.4	40 - 140
Endrin Aldehyde	0.0995	0.074	74.4	40 - 140
Endrin Ketone	0.0995	0.086	86.6	40 - 140
Heptachlor	0.0995	0.088	88.9	40 - 140
Heptachlor Epoxide	0.0995	0.087	87.7	40 - 140
Methoxychlor	0.0995	0.074	74.3	40 - 140

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCSD CONCENTRATION (mg/Kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
alpha-Chlordane	0.0997	0.11	106	18.2	30	40 - 140
gamma-Chlordane	0.0997	0.10	100	16.6	30	40 - 140
Aldrin	0.0997	0.10	104	18.0	30	40 - 140
alpha-BHC	0.0997	0.10	104	20.0	30	40 - 140
beta-BHC	0.0997	0.094	94.5	15.0	30	40 - 140
delta-BHC	0.0997	0.10	102	17.9	30	40 - 140
gamma-BHC (Lindane)	0.0997	0.099	99.8	18.7	30	40 - 140
4,4'-DDD	0.0997	0.12	116	21.7	30	40 - 140
4,4'-DDE	0.0997	0.11	113	20.4	30	40 - 140
4,4'-DDT	0.0997	0.12	117	24.3	30	40 - 140
Dieldrin	0.0997	0.11	110	19.1	30	40 - 140
Endosulfan I	0.0997	0.11	108	18.3	30	40 - 140
Endosulfan II	0.0997	0.11	108	20.4	30	40 - 140

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

SW-846 8081B

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Preparation:	SW-846 3546
Batch:	B374053	Laboratory ID:	B374053-BSD1
Column:	1	Initial/Final:	10.03 g / 10 mL

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCSD CONCENTRATION (mg/Kg wet)	LCSD % REC. #	% RPD #		QC LIMITS RPD	QC LIMITS REC.
Endosulfan Sulfate	0.0997	0.089	89.1	23.3		30	40 - 140
Endrin	0.0997	0.12	119	21.9		30	40 - 140
Endrin Aldehyde	0.0997	0.085	85.1	13.6		30	40 - 140
Endrin Ketone	0.0997	0.11	106	20.7		30	40 - 140
Heptachlor	0.0997	0.11	106	17.8		30	40 - 140
Heptachlor Epoxide	0.0997	0.11	106	19.1		30	40 - 140
Methoxychlor	0.0997	0.10	100	30.1	*	30	40 - 140

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

SW-846 8081B

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Preparation:	SW-846 3546
Batch:	B374053	Laboratory ID:	B374053-BS1
Column:	2	Initial/Final:	10.05 g / 10 mL

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCS CONCENTRATION (mg/Kg wet)	LCS % REC.	QC LIMITS REC.
alpha-Chlordane [2C]	0.0995	0.093	93.5	40 - 140
gamma-Chlordane [2C]	0.0995	0.093	93.5	40 - 140
Aldrin [2C]	0.0995	0.090	90.9	40 - 140
alpha-BHC [2C]	0.0995	0.086	86.3	40 - 140
beta-BHC [2C]	0.0995	0.084	83.9	40 - 140
delta-BHC [2C]	0.0995	0.086	86.7	40 - 140
gamma-BHC (Lindane) [2C]	0.0995	0.087	87.4	40 - 140
4,4'-DDD [2C]	0.0995	0.099	99.1	40 - 140
4,4'-DDE [2C]	0.0995	0.096	96.4	40 - 140
4,4'-DDT [2C]	0.0995	0.092	92.1	40 - 140
Dieldrin [2C]	0.0995	0.095	95.7	40 - 140
Endosulfan I [2C]	0.0995	0.094	94.9	40 - 140
Endosulfan II [2C]	0.0995	0.095	95.5	40 - 140
Endosulfan Sulfate [2C]	0.0995	0.089	89.2	40 - 140
Endrin [2C]	0.0995	0.098	99.0	40 - 140
Endrin Aldehyde [2C]	0.0995	0.083	83.7	40 - 140
Endrin Ketone [2C]	0.0995	0.088	88.8	40 - 140
Heptachlor [2C]	0.0995	0.091	91.3	40 - 140
Heptachlor Epoxide [2C]	0.0995	0.091	91.2	40 - 140
Methoxychlor [2C]	0.0995	0.089	89.5	40 - 140

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCSD CONCENTRATION (mg/Kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
alpha-Chlordane [2C]	0.0997	0.11	112	18.6	30	40 - 140
gamma-Chlordane [2C]	0.0997	0.11	112	18.2	30	40 - 140
Aldrin [2C]	0.0997	0.11	109	18.3	30	40 - 140
alpha-BHC [2C]	0.0997	0.11	106	20.3	30	40 - 140
beta-BHC [2C]	0.0997	0.099	99.4	17.1	30	40 - 140
delta-BHC [2C]	0.0997	0.10	103	17.6	30	40 - 140
gamma-BHC (Lindane) [2C]	0.0997	0.10	105	18.8	30	40 - 140
4,4'-DDD [2C]	0.0997	0.12	122	21.3	30	40 - 140
4,4'-DDE [2C]	0.0997	0.12	118	20.4	30	40 - 140
4,4'-DDT [2C]	0.0997	0.12	119	26.0	30	40 - 140
Dieldrin [2C]	0.0997	0.12	117	20.0	30	40 - 140
Endosulfan I [2C]	0.0997	0.11	114	18.3	30	40 - 140
Endosulfan II [2C]	0.0997	0.12	116	19.9	30	40 - 140

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

SW-846 8081B

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Preparation:	SW-846 3546
Batch:	B374053	Laboratory ID:	B374053-BSD1
Column:	2	Initial/Final:	10.03 g / 10 mL

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCSD CONCENTRATION (mg/Kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Endosulfan Sulfate [2C]	0.0997	0.11	112	22.4	30	40 - 140
Endrin [2C]	0.0997	0.12	123	21.5	30	40 - 140
Endrin Aldehyde [2C]	0.0997	0.095	95.1	13.0	30	40 - 140
Endrin Ketone [2C]	0.0997	0.11	110	21.2	30	40 - 140
Heptachlor [2C]	0.0997	0.11	109	18.0	30	40 - 140
Heptachlor Epoxide [2C]	0.0997	0.11	110	19.1	30	40 - 140
Methoxychlor [2C]	0.0997	0.11	113	23.8	30	40 - 140

4 - FORM IV
METHOD BLANK SUMMARY

SW-846 8081B

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Blank ID:	B374053-BLK1	Batch:	B374053
Prepared:	05/10/2024 15:22		

Client Sample ID	Laboratory Sample ID	Lab File ID	Time Analyzed
LCS	B374053-BS1	H24E127024.d	12:53
LCS	B374053-BS1	H24E127021.d	12:53
LCS Dup	B374053-BSD1	H24E127025.d	13:05
LCS Dup	B374053-BSD1	H24E127022.d	13:05
CG-2	24E1437-02	H24E127030.d	14:41
B1A	24E1437-04	H24E127031.d	14:53
SB1A	24E1437-06	H24E127032.d	15:05
SB4A	24E1437-12	H24E127033.d	15:17
SB7	24E1437-17	H24E127034.d	15:29
DUP	24E1437-19	H24E127035.d	15:41
Matrix Spike	B374053-MS1	H24E127036.d	15:53
Matrix Spike	B374053-MS1	H24E127052.d	15:53
Matrix Spike Dup	B374053-MSD1	H24E127053.d	16:05
Matrix Spike Dup	B374053-MSD1	H24E127037.d	16:05
CG-2	24E1437-02RE1	H24E127046.d	17:52
B1A	24E1437-04RE1	H24E127047.d	18:04
SB1A	24E1437-06RE1	H24E127048.d	18:16
SB4A	24E1437-12RE1	H24E127049.d	18:28
SB7	24E1437-17RE1	H24E127050.d	18:40
DUP	24E1437-19RE1	H24E127051.d	18:52

Breakdown Report

Lab Sample ID:	S104592-PEM1	Analyzed:	05/14/2024

Column Number	1
Analyte	% Breakdown
4.4'-DDT [1]	1.18
Endrin [1]	3.31

Column Number	2
Analyte	% Breakdown
4.4'-DDT [2]	0.99
Endrin [2]	3.31

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127004.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 9:30 am
Operator : PJG
Sample : PEM1 05/03/24 24E0094 Inst : ECD 8
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:11:14 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
		System Monitoring Compounds							
1)	S	Tetrachlo...	2.934f	0.000	2167288	0	0.079	N.D.	#
24)	S	Decachlor...	7.038f	0.000	24060053	0	1.084	N.D.	#
		Target Compounds							
2)	T	Hexachlor...	3.238	0.000	9106028	0	0.302	N.D.	#
3)	T	alpha-BHC	0.000	0.000	0	0	N.D.	N.D.	
4)	T	gamma-BHC	0.000	0.000	0	0	N.D.	N.D.	
5)	T	Beta-BHC	0.000	0.000	0	0	N.D.	N.D.	
6)	T	Delta-BHC	3.837	3.829	2654574	958976	0.075	0.037	#
7)	T	Heptachlor	0.000	0.000	0	0	N.D.	N.D.	
8)	T	Aldrin	0.000	0.000	0	0	N.D.	N.D.	
9)	T	Alachlor	0.000	0.000	0	0	N.D.	N.D.	
10)	T	Heptachlo...	4.755	4.591	3103825	1020852	0.098	0.044	#
11)	T	Y-Chlordane	4.836f	4.727f	18411668	129554	0.541	0.005	#
12)	T	A-Chlordane	4.962	0.000	1091607	0	0.035	N.D.	#
13)	T	4,4-DDE	5.026	5.006	15675043	11396233	0.505	0.499	
14)	T	Endo-I	5.082	0.000	1996420	0	0.068	N.D.	#
15)	T	Dieldrin	5.274	5.126	8808146	6015355	0.266	0.255	
16)	T	Endrin	5.467	5.372	1672.0E6	1221.6E6	60.131	60.984	
17)	T	4,4-DDD	5.517	5.475	20073745	10865893	0.784	0.583	#
18)	T	Endo-II	5.649	5.547	1983977	2879608	0.072	0.144	#
19)	T	4,4-DDT	5.747	5.731	3004.3E6	2227.0E6	112.624	115.197	
20)	T	Endrin Al...	5.990	5.823	26564030	20098141	1.265	1.308	
21)	T	Methoxychlor	6.116	0.000	1065137	0	0.076	N.D.	#
22)	T	End Sulf	6.304	0.000	1259977	0	0.049	N.D.	#
23)	T	Endrin Ke...	6.487	6.399	30756665	21657949	1.013	0.992	
25)	L8	Chlordane{1}	0.000	0.000	0	0	N.D.	N.D.	
26)	L8	Chlordane{2}	0.000	0.000	0	0	N.D.	N.D.	
27)	L8	Chlordane{3}	0.000	0.000	0	0	N.D.	N.D.	
28)	L8	Chlordane{4}	4.836f	0.000	18411668	0	3.766	N.D.	#
29)	L8	Chlordane{5}	0.000	0.000	0	0	N.D.	N.D.	
	Sum	Chlordane			18411668	0	3.766	N.D.	
Average		Chlordane					3.766	0.000	
30)	H	Toxaphene	5.751	5.623	5140.3E6	3642.8E6	233.773	214.102	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

CHECKED BY:

MAY 15 2024

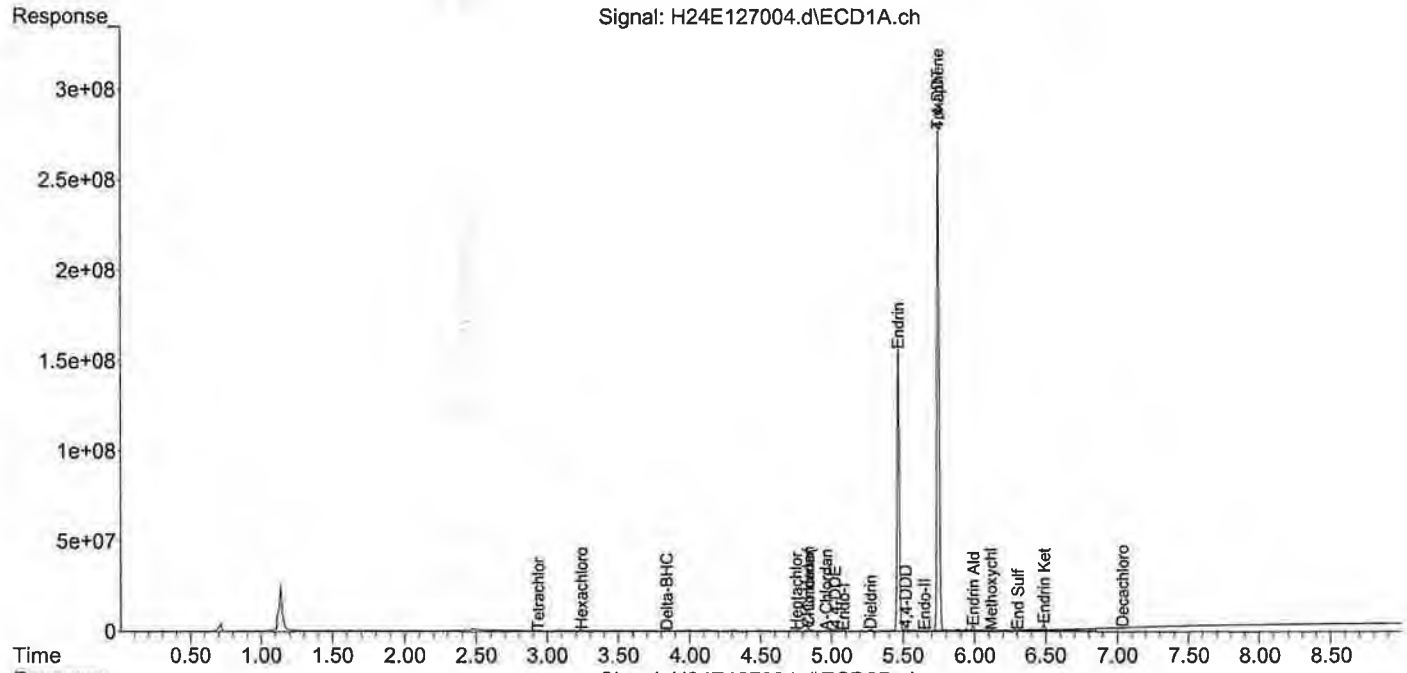
Todd Gionfriddo

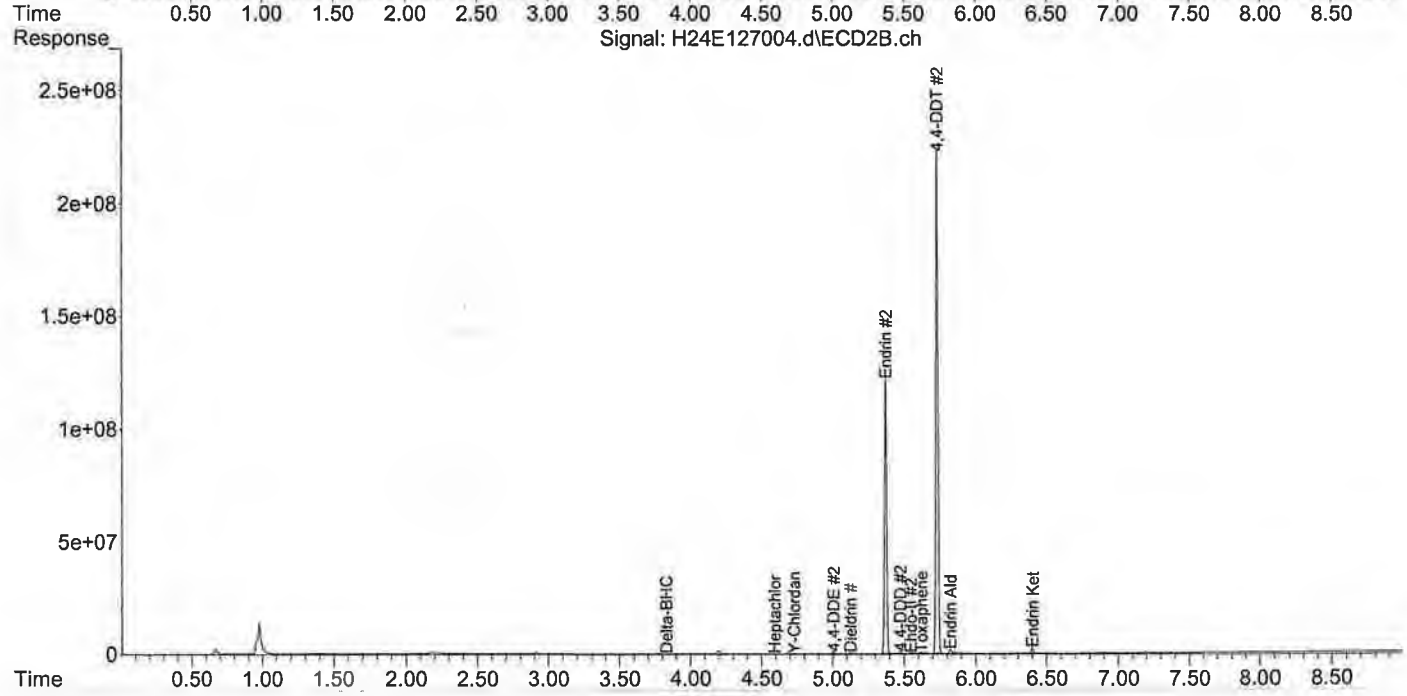
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127004.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 9:30 am
Operator : PJG
Sample : PEM1 05/03/24 24E0094 Inst : ECD 8
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:11:14 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





CALIBRATION DATA

6 - FORM VI
INITIAL CALIBRATION DATA SHEET

SW-846 8081B

Client: NYS Division of Environmental Remediation SDG: 24E1437

Project: Tivoli Memorial Park- CO 149634

Calibration: 2400548 Instrument: ECD 8

Calibration Date: 5/14/2024 12:00:55AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
alpha-Chlordane	0.1	0	1	3.2958E+07	5	3.266E+07	10	2.978E+07	20	2.9205E+07	50	3.0522E+07
alpha-Chlordane [2C]	0.1	0	1	2.224316E+07	5	2.298E+07	10	2.133E+07	20	2.137E+07	50	2.2726E+07
gamma-Chlordane	0.1	0	1	4.028278E+07	5	3.49E+07	10	3.117E+07	20	3.0385E+07	50	3.1966E+07
gamma-Chlordane [2C]	0.1	0	1	2.26584E+07	5	2.358E+07	10	2.207E+07	20	2.2295E+07	50	2.3794E+07
Alachlor	0.1	0	1	0	5	0	10	4486887	20	4251006	50	4126000
Alachlor [2C]	0.1	0	1	0	5	0	10	3082375	20	2847686	50	2864000
Aldrin	0.1	0	1	3.35934E+07	5	3.608E+07	10	3.339E+07	20	3.318E+07	50	3.4832E+07
Aldrin [2C]	0.1	0	1	2.307246E+07	5	2.55E+07	10	2.403E+07	20	2.4435E+07	50	2.6012E+07
alpha-BHC	0.1	0	1	3.79017E+07	5	4.08E+07	10	3.801E+07	20	3.8465E+07	50	4.0864E+07
alpha-BHC [2C]	0.1	0	1	2.448358E+07	5	2.788E+07	10	2.643E+07	20	2.715E+07	50	2.9082E+07
beta-BHC	0.1	0	1	1.854444E+07	5	1.692451E+07	10	1.533E+07	20	1.4515E+07	50	1.4984E+07
beta-BHC [2C]	0.1	0	1	1.190863E+07	5	1.167943E+07	10	1.067E+07	20	1.049E+07	50	1.0954E+07
delta-BHC	0.1	0	1	3.345612E+07	5	3.456E+07	10	3.245E+07	20	3.287E+07	50	3.498E+07
delta-BHC [2C]	0.1	0	1	2.173828E+07	5	2.458E+07	10	2.385E+07	20	2.4515E+07	50	2.6254E+07
gamma-BHC (Lindane)	0.1	0	1	3.589345E+07	5	3.8E+07	10	3.516E+07	20	3.5045E+07	50	3.7046E+07
gamma-BHC (Lindane) [2C]	0.1	0	1	2.338763E+07	5	2.634E+07	10	2.505E+07	20	2.54E+07	50	2.7028E+07
4,4'-DDD	0.1	0	1	2.444407E+07	5	2.558E+07	10	2.419E+07	20	2.391E+07	50	2.537E+07
4,4'-DDD [2C]	0.1	0	1	1.716481E+07	5	1.791186E+07	10	1.725E+07	20	1.748E+07	50	1.8808E+07
4,4'-DDE	0.1	0	1	2.950536E+07	5	3.122E+07	10	2.918E+07	20	2.9E+07	50	3.0794E+07
4,4'-DDE [2C]	0.1	0	1	2.052271E+07	5	2.22E+07	10	2.125E+07	20	2.1635E+07	50	2.3212E+07
4,4'-DDT	0.1	0	1	2.764038E+07	5	2.604E+07	10	2.453E+07	20	2.4155E+07	50	2.5918E+07
4,4'-DDT [2C]	0.1	0	1	1.870152E+07	5	1.824842E+07	10	1.777E+07	20	1.7805E+07	50	1.9184E+07
Dieldrin	0.1	3.758807E+07	1	3.224873E+07	5	3.332E+07	10	3.052E+07	20	3.011E+07	50	3.18E+07
Dieldrin [2C]	0.1	2.468456E+07	1	2.174181E+07	5	2.302E+07	10	2.183E+07	20	2.209E+07	50	2.3642E+07
Endosulfan I	0.1	0	1	2.989648E+07	5	3.064E+07	10	2.792E+07	20	2.718E+07	50	2.831E+07
Endosulfan I [2C]	0.1	0	1	2.050535E+07	5	2.134E+07	10	1.991E+07	20	1.9885E+07	50	2.1044E+07
Endosulfan II	0.1	0	1	2.922884E+07	5	2.828E+07	10	2.602E+07	20	2.5145E+07	50	2.6512E+07
Endosulfan II [2C]	0.1	0	1	2.029005E+07	5	1.978516E+07	10	1.861E+07	20	1.839E+07	50	1.9578E+07
Endosulfan Sulfate	0.1	0	1	2.781236E+07	5	2.608E+07	10	2.402E+07	20	2.3165E+07	50	2.438E+07
Endosulfan Sulfate [2C]	0.1	0	1	1.969859E+07	5	1.846666E+07	10	1.749E+07	20	1.715E+07	50	1.8276E+07
Endrin	0.1	0	1	2.83891E+07	5	2.804E+07	10	2.648E+07	20	2.5645E+07	50	2.685E+07

6 - FORM VI
INITIAL CALIBRATION DATA SHEET

SW-846 8081B

Client: NYS Division of Environmental Remediation SDG: 24E1437

Project: Tivoli Memorial Park- CO 149634

Calibration: 2400548 Instrument: ECD 8

Calibration Date: 5/14/2024 12:00:55AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
Endrin [2C]	0.1	0	1	1.940695E+07	5	1.946655E+07	10	1.869E+07	20	1.854E+07	50	1.9814E+07
Endrin Aldehyde	0.1	0	1	2.226787E+07	5	2.094E+07	10	2.037E+07	20	1.9745E+07	50	2.089E+07
Endrin Aldehyde [2C]	0.1	0	1	1.559614E+07	5	1.485993E+07	10	1.464E+07	20	1.4495E+07	50	1.567E+07
Endrin Ketone	0.1	0	1	3.32119E+07	5	3.024E+07	10	2.803E+07	20	2.726E+07	50	2.9066E+07
Endrin Ketone [2C]	0.1	0	1	2.229052E+07	5	2.132E+07	10	2.004E+07	20	1.9795E+07	50	2.1418E+07
Heptachlor	0.1	0	1	3.747227E+07	5	3.68E+07	10	3.402E+07	20	3.3465E+07	50	3.4766E+07
Heptachlor [2C]	0.1	0	1	2.401298E+07	5	2.558E+07	10	2.42E+07	20	2.4385E+07	50	2.5698E+07
Heptachlor Epoxide	0.1	0	1	3.259007E+07	5	3.33E+07	10	3.017E+07	20	2.946E+07	50	3.0528E+07
Heptachlor Epoxide [2C]	0.1	0	1	2.250531E+07	5	2.334E+07	10	2.173E+07	20	2.1695E+07	50	2.2858E+07
Hexachlorobenzene	0.1	0	1	3.389068E+07	5	3.174E+07	10	2.769E+07	20	2.7145E+07	50	2.8286E+07
Hexachlorobenzene [2C]	0.1	0	1	2.317054E+07	5	2.276E+07	10	2.079E+07	20	2.056E+07	50	2.1424E+07
Methoxychlor	0.1	0	1	1.602567E+07	5	1.464003E+07	10	1.349E+07	20	1.2575E+07	50	1.2912E+07
Methoxychlor [2C]	0.1	0	1	1.205337E+07	5	1.035114E+07	10	9644682	20	9245000	50	9684000
Toxaphene												
Toxaphene [2C]												
Chlordane (1)												
Chlordane (1) [2C]												
Chlordane (2)												
Chlordane (2) [2C]												
Chlordane (3)												
Chlordane (3) [2C]												
Chlordane (4)												
Chlordane (4) [2C]												
Chlordane (5)												
Chlordane (5) [2C]												
Decachlorobiphenyl	0.1	0	1	0	5	2.48E+07	10	2.245E+07	20	2.0635E+07	50	2.0594E+07
Decachlorobiphenyl [2C]	0.1	0	1	0	5	1.648022E+07	10	1.499E+07	20	1.463E+07	50	1.5214E+07
Tetrachloro-m-xylene	0.1	0	1	0	5	2.92E+07	10	2.615E+07	20	2.5685E+07	50	2.64E+07
Tetrachloro-m-xylene [2C]	0.1	0	1	0	5	2.024E+07	10	1.873E+07	20	1.8975E+07	50	1.9646E+07

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

SW-846 8081B

Client: NYS Division of Environmental Remediation SDG: 24E1437

Project: Tivoli Memorial Park- CO 149634

Calibration: 2400548 Instrument: ECD 8

Calibration Date: 5/14/2024 12:00:55AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
		RF		RF		RF		RF		RF		RF
alpha-Chlordane	100	3.3048E+07	200	3.32315E+07								
alpha-Chlordane [2C]	100	2.4806E+07	200	2.4845E+07								
gamma-Chlordane	100	3.4822E+07	200	3.4914E+07								
gamma-Chlordane [2C]	100	2.6068E+07	200	2.6175E+07								
Alachlor	100	4276000	200	4097500								
Alachlor [2C]	100	2997000	200	2889000								
Aldrin	100	3.7702E+07	200	3.77055E+07								
Aldrin [2C]	100	2.8305E+07	200	2.8255E+07								
alpha-BHC	100	4.4809E+07	200	4.5788E+07								
alpha-BHC [2C]	100	3.2326E+07	200	3.2883E+07								
beta-BHC	100	1.6069E+07	200	1.5847E+07								
beta-BHC [2C]	100	1.1786E+07	200	1.1732E+07								
delta-BHC	100	3.8816E+07	200	4.003E+07								
delta-BHC [2C]	100	2.8852E+07	200	2.96385E+07								
gamma-BHC (Lindane)	100	4.061E+07	200	4.11565E+07								
gamma-BHC (Lindane) [2C]	100	2.9695E+07	200	2.9976E+07								
4,4'-DDD	100	2.779E+07	200	2.80335E+07								
4,4'-DDD [2C]	100	2.084E+07	200	2.1066E+07								
4,4'-DDE	100	3.3724E+07	200	3.3832E+07								
4,4'-DDE [2C]	100	2.5528E+07	200	2.55605E+07								
4,4'-DDT	100	2.9151E+07	200	2.9301E+07								
4,4'-DDT [2C]	100	2.1686E+07	200	2.1928E+07								
Dieldrin	100	3.4517E+07	200	3.45795E+07								
Dieldrin [2C]	100	2.5914E+07	200	2.6019E+07								
Endosulfan I	100	3.04E+07	200	3.0325E+07								
Endosulfan I [2C]	100	2.2818E+07	200	2.27915E+07								
Endosulfan II	100	2.876E+07	200	2.8812E+07								
Endosulfan II [2C]	100	2.1502E+07	200	2.16175E+07								
Endosulfan Sulfate	100	2.665E+07	200	2.6926E+07								
Endosulfan Sulfate [2C]	100	2.0173E+07	200	2.04595E+07								
Endrin	100	2.9264E+07	200	2.99605E+07								

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

SW-846 8081B

Client: NYS Division of Environmental Remediation SDG: 24E1437

Project: Tivoli Memorial Park- CO 149634

Calibration: 2400548 Instrument: ECD 8

Calibration Date: 5/14/2024 12:00:55AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
		RF		RF		RF		RF		RF		RF
Endrin [2C]	100	2.1837E+07	200	2.2454E+07								
Endrin Aldehyde	100	2.0276E+07	200	2.2506E+07								
Endrin Aldehyde [2C]	100	1.5258E+07	200	1.7018E+07								
Endrin Ketone	100	3.2085E+07	200	3.2631E+07								
Endrin Ketone [2C]	100	2.3771E+07	200	2.41545E+07								
Heptachlor	100	3.7769E+07	200	3.7764E+07								
Heptachlor [2C]	100	2.8052E+07	200	2.8066E+07								
Heptachlor Epoxide	100	3.2865E+07	200	3.28195E+07								
Heptachlor Epoxide [2C]	100	2.457E+07	200	2.47105E+07								
Hexachlorobenzene	100	3.0943E+07	200	3.1269E+07								
Hexachlorobenzene [2C]	100	2.3301E+07	200	2.3381E+07								
Methoxychlor	100	1.4218E+07	200	1.4134E+07								
Methoxychlor [2C]	100	1.0765E+07	200	1.08105E+07								
Toxaphene					50	2.774E+07	100	2.2008E+07	200	1.9204E+07	250	1.99296E+07
Toxaphene [2C]					50	1.6742E+07	100	1.594E+07	200	1.65605E+07	250	1.75076E+07
Chlordane (1)												
Chlordane (1) [2C]												
Chlordane (2)												
Chlordane (2) [2C]												
Chlordane (3)												
Chlordane (3) [2C]												
Chlordane (4)												
Chlordane (4) [2C]												
Chlordane (5)												
Chlordane (5) [2C]												
Decachlorobiphenyl	100	2.2359E+07	200	2.2358E+07								
Decachlorobiphenyl [2C]	100	1.6916E+07	200	1.703E+07								
Tetrachloro-m-xylene	100	2.8723E+07	200	2.8626E+07								
Tetrachloro-m-xylene [2C]	100	2.1328E+07	200	2.1128E+07								

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

SW-846 8081B

Client: NYS Division of Environmental Remediation SDG: 24E1437

Project: Tivoli Memorial Park- CO 149634

Calibration: 2400548 Instrument: ECD 8

Calibration Date: 5/14/2024 12:00:55AM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
		RF		RF		RF		RF		RF		RF
alpha-Chlordane												
alpha-Chlordane [2C]												
gamma-Chlordane												
gamma-Chlordane [2C]												
Alachlor												
Alachlor [2C]												
Aldrin												
Aldrin [2C]												
alpha-BHC												
alpha-BHC [2C]												
beta-BHC												
beta-BHC [2C]												
delta-BHC												
delta-BHC [2C]												
gamma-BHC (Lindane)												
gamma-BHC (Lindane) [2C]												
4,4'-DDD												
4,4'-DDD [2C]												
4,4'-DDE												
4,4'-DDE [2C]												
4,4'-DDT												
4,4'-DDT [2C]												
Dieldrin												
Dieldrin [2C]												
Endosulfan I												
Endosulfan I [2C]												
Endosulfan II												
Endosulfan II [2C]												
Endosulfan Sulfate												
Endosulfan Sulfate [2C]												
Endrin												

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

SW-846 8081B

Client: NYS Division of Environmental Remediation SDG: 24E1437

Project: Tivoli Memorial Park- CO 149634

Calibration: 2400548 Instrument: ECD 8

Calibration Date: 5/14/2024 12:00:55AM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
		RF		RF		RF		RF		RF		RF
Endrin [2C]												
Endrin Aldehyde												
Endrin Aldehyde [2C]												
Endrin Ketone												
Endrin Ketone [2C]												
Heptachlor												
Heptachlor [2C]												
Heptachlor Epoxide												
Heptachlor Epoxide [2C]												
Hexachlorobenzene												
Hexachlorobenzene [2C]												
Methoxychlor												
Methoxychlor [2C]												
Toxaphene	500	2.14968E+07	750	2.15516E+07								
Toxaphene [2C]	500	1.78558E+07	750	1.747707E+07								
Chlordane (1)					10	1312177	20	1198072	50	1196175	100	1169000
Chlordane (1) [2C]					10	1013275	20	882175.5	50	870422.8	100	861033.8
Chlordane (2)					10	1770539	20	1627158	50	1654583	100	1656000
Chlordane (2) [2C]					10	1310170	20	1178327	50	1194450	100	1205000
Chlordane (3)					10	1644382	20	1536931	50	1455788	100	1377000
Chlordane (3) [2C]					10	1236919	20	1022624	50	964997.4	100	988667.6
Chlordane (4)					10	5183904	20	4668538	50	4718000	100	4690000
Chlordane (4) [2C]					10	3896905	20	3588926	50	3608000	100	3575000
Chlordane (5)					10	1278104	20	1186887	50	1222035	100	1213000
Chlordane (5) [2C]					10	2832385	20	2496509	50	2492000	100	2465000
Decachlorobiphenyl					10	~~0~~	20	~~0~~	50	~~0~~	100	~~0~~
Decachlorobiphenyl [2C]					10	~~0~~	20	~~0~~	50	~~0~~	100	~~0~~
Tetrachloro-m-xylene					10	~~0~~	20	~~0~~	50	~~0~~	100	~~0~~
Tetrachloro-m-xylene [2C]					10	~~0~~	20	~~0~~	50	~~0~~	100	~~0~~

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

SW-846 8081B

Client: NYS Division of Environmental Remediation SDG: 24E1437

Project: Tivoli Memorial Park- CO 149634

Calibration: 2400548 Instrument: ECD 8

Calibration Date: 5/14/2024 12:00:55AM

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
		RF		RF		RF		RF		RF		RF
alpha-Chlordane												
alpha-Chlordane [2C]												
gamma-Chlordane												
gamma-Chlordane [2C]												
Alachlor												
Alachlor [2C]												
Aldrin												
Aldrin [2C]												
alpha-BHC												
alpha-BHC [2C]												
beta-BHC												
beta-BHC [2C]												
delta-BHC												
delta-BHC [2C]												
gamma-BHC (Lindane)												
gamma-BHC (Lindane) [2C]												
4,4'-DDD												
4,4'-DDD [2C]												
4,4'-DDE												
4,4'-DDE [2C]												
4,4'-DDT												
4,4'-DDT [2C]												
Dieldrin												
Dieldrin [2C]												
Endosulfan I												
Endosulfan I [2C]												
Endosulfan II												
Endosulfan II [2C]												
Endosulfan Sulfate												
Endosulfan Sulfate [2C]												
Endrin												

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

SW-846 8081B

Client: NYS Division of Environmental Remediation SDG: 24E1437

Project: Tivoli Memorial Park- CO 149634

Calibration: 2400548 Instrument: ECD 8

Calibration Date: 5/14/2024 12:00:55AM

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
		RF		RF		RF		RF		RF		RF
Endrin [2C]												
Endrin Aldehyde												
Endrin Aldehyde [2C]												
Endrin Ketone												
Endrin Ketone [2C]												
Heptachlor												
Heptachlor [2C]												
Heptachlor Epoxide												
Heptachlor Epoxide [2C]												
Hexachlorobenzene												
Hexachlorobenzene [2C]												
Methoxychlor												
Methoxychlor [2C]												
Toxaphene												
Toxaphene [2C]												
Chlordane (1)	200	1294500	250	1254400	500	1178800						
Chlordane (1) [2C]	200	946500	250	917200	500	870200						
Chlordane (2)	200	1825000	250	1770400	500	1666000						
Chlordane (2) [2C]	200	1344500	250	1311600	500	1242800						
Chlordane (3)	200	1474500	250	1417200	500	1303600						
Chlordane (3) [2C]	200	1056500	250	940800	500	863200						
Chlordane (4)	200	5200000	250	5036400	500	4728000						
Chlordane (4) [2C]	200	3999500	250	3875200	500	3643400						
Chlordane (5)	200	1365000	250	1327200	500	1272000						
Chlordane (5) [2C]	200	2751500	250	2669200	500	2506000						
Decachlorobiphenyl	200	~~0~~	250	~~0~~	500	~~0~~						
Decachlorobiphenyl [2C]	200	~~0~~	250	~~0~~	500	~~0~~						
Tetrachloro-m-xylene	200	~~0~~	250	~~0~~	500	~~0~~						
Tetrachloro-m-xylene [2C]	200	~~0~~	250	~~0~~	500	~~0~~						

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

SW-846 8081B

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Calibration:	2400548	Instrument:	ECD 8
		Calibration Date:	5/14/2024 12:00:55AM

COMPOUND	Mean RF	RF RSD	Linear r^2	Quad COD	LIMIT	Q
alpha-Chlordane	3.162921E+07	5.5			20	
alpha-Chlordane [2C]	2.290002E+07	6.4			20	
gamma-Chlordane	3.406283E+07	9.8			20	
gamma-Chlordane [2C]	2.380577E+07	7.2			20	
Alachlor	4247479	3.6			20	
Alachlor [2C]	2936012	3.4			20	
Aldrin	3.521184E+07	5.6			20	
Aldrin [2C]	2.565849E+07	7.9			20	
alpha-BHC	4.094824E+07	7.9			20	
alpha-BHC [2C]	2.860494E+07	10.7			20	
beta-BHC	1.603056E+07	8.5			20	
beta-BHC [2C]	1.131715E+07	5.2			20	
delta-BHC	3.530887E+07	8.4			20	
delta-BHC [2C]	2.563254E+07	11.0			20	
gamma-BHC (Lindane)	3.755871E+07	6.7			20	
gamma-BHC (Lindane) [2C]	2.669666E+07	9.1			20	
4,4'-DDD	2.56168E+07	6.6			20	
4,4'-DDD [2C]	1.864581E+07	9.0			20	
4,4'-DDE	3.103648E+07	6.6			20	
4,4'-DDE [2C]	2.284403E+07	8.9			20	
4,4'-DDT	2.667648E+07	7.8			20	
4,4'-DDT [2C]	1.933185E+07	9.1			20	
Dieldrin	3.308541E+07	7.4			20	
Dieldrin [2C]	2.361767E+07	7.4			20	
Endosulfan I	2.923878E+07	4.8			20	
Endosulfan I [2C]	2.118484E+07	5.8			20	
Endosulfan II	2.753683E+07	5.9			20	
Endosulfan II [2C]	1.996753E+07	6.4			20	
Endosulfan Sulfate	2.557619E+07	6.8			20	
Endosulfan Sulfate [2C]	1.881625E+07	7.0			20	
Endrin	2.780409E+07	5.6			20	

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

SW-846 8081B

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Calibration:	2400548	Instrument:	ECD 8
		Calibration Date:	5/14/2024 12:00:55AM

COMPOUND	Mean RF	RF RSD	Linear r^2	Quad COD	LIMIT	Q
Endrin [2C]	2.002979E+07	7.6			20	
Endrin Aldehyde	2.099927E+07	4.9			20	
Endrin Aldehyde [2C]	1.536244E+07	5.6			20	
Endrin Ketone	3.036056E+07	7.7			20	
Endrin Ketone [2C]	2.1827E+07	7.7			20	
Heptachlor	3.600804E+07	5.2			20	
Heptachlor [2C]	2.571343E+07	6.7			20	
Heptachlor Epoxide	3.167608E+07	4.9			20	
Heptachlor Epoxide [2C]	2.30584E+07	5.3			20	
Hexachlorobenzene	3.013767E+07	8.2			20	
Hexachlorobenzene [2C]	2.219808E+07	5.6			20	
Methoxychlor	1.399924E+07	8.3			20	
Methoxychlor [2C]	1.036481E+07	9.2			20	
Toxaphene	2.198833E+07	13.7			20	
Toxaphene [2C]	1.701383E+07	4.2			20	
Chlordane (1)	1229018	4.7			20	
Chlordane (1) [2C]	908686.7	6.1			20	
Chlordane (2)	1709954	4.5			20	
Chlordane (2) [2C]	1255264	5.3			20	
Chlordane (3)	1458486	7.6			20	
Chlordane (3) [2C]	1010530	11.6			20	
Chlordane (4)	4889263	4.9			20	
Chlordane (4) [2C]	3740990	4.7			20	
Chlordane (5)	1266318	5.1			20	
Chlordane (5) [2C]	2601799	5.7			20	
Decachlorobiphenyl	2.219933E+07	6.9			20	
Decachlorobiphenyl [2C]	1.58767E+07	6.6			20	
Tetrachloro-m-xylene	2.7464E+07	5.6			20	
Tetrachloro-m-xylene [2C]	2.000783E+07	5.4			20	

INITIAL CALIBRATION STANDARDS

SW-846 8081B

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Sequence:	S102970	Instrument:	ECD 8
Calibration:	2400548		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
23K0585	Chlordane Standard=10 ug/L	S102970-CAL1	H24E067019.d	03/07/24 13:43
23K0584	Chlordane Standard=20 ug/L	S102970-CAL2	H24E067020.d	03/07/24 13:54
23K0583	Chlordane Standard=50 ug/L	S102970-CAL3	H24E067021.d	03/07/24 14:06
23K0582	Chlordane Standard=100 ug/L	S102970-CAL4	H24E067022.d	03/07/24 14:18
23K0581	Chlordane Standard=200 ug/L	S102970-CAL5	H24E067023.d	03/07/24 14:30
23K0580	Chlordane Standard=250 ug/L	S102970-CAL6	H24E067024.d	03/07/24 14:42
23K0579	Chlordane Standard=500 ug/L	S102970-CAL7	H24E067025.d	03/07/24 14:54

INITIAL CALIBRATION STANDARDS

SW-846 8081B

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Sequence:	S102971	Instrument:	ECD 8
Calibration:	2400548		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
24A0554	Toxaphene Standard=50 ug/L	S102971-CAL1	H24E067027.d	03/07/24 15:18
24A0553	Toxaphene Standard=100 ug/L	S102971-CAL2	H24E067028.d	03/07/24 15:30
24A0552	Toxaphene Standard=200 ug/L	S102971-CAL3	H24E067029.d	03/07/24 15:42
24A0551	Toxaphene Standard=250 ug/L	S102971-CAL4	H24E067030.d	03/07/24 15:54
24A0550	Toxaphene Standard=500 ug/L	S102971-CAL5	H24E067031.d	03/07/24 16:06
24A0549	Toxaphene Standard =750 ug/L	S102971-CAL6	H24E067032.d	03/07/24 16:18

INITIAL CALIBRATION STANDARDS

SW-846 8081B

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Sequence:	S104660	Instrument:	ECD 8
Calibration:	2400548		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
24B0465	Pesticide Standard=0.1 ppb	S104660-CAL1	H24E127009.d	05/14/24 10:30
24B0464	Pesticide Standard=1.0 ug/L	S104660-CAL2	H24E127010.d	05/14/24 10:42
24B0463	Pesticide Standard=5 ug/L	S104660-CAL3	H24E127011.d	05/14/24 10:54
24B0462	Pesticide Standard=10 ug/L	S104660-CAL4	H24E127012.d	05/14/24 11:06
24B0461	Pesticide Standard=20 ug/L	S104660-CAL5	H24E127013.d	05/14/24 11:18
24B0460	Pesticide Standard=50 ug/L	S104660-CAL6	H24E127014.d	05/14/24 11:29
24B0459	Pesticide Standard=100 ug/L	S104660-CAL7	H24E127015.d	05/14/24 11:41
24B0458	Pesticide Standard=200 ug/L	S104660-CAL8	H24E127016.d	05/14/24 11:53

Response Factor Report ECD 8

Method Path : C:\msdchem\1\methods\
Method File : 8PEST051424C.M
Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
Last Update : Wed May 15 15:06:28 2024
Response Via : Initial Calibration

Calibration Files
0.1 =H24E127009.d 1 =H24E127010.d 5 =H24E127011.d
10 =H24E127012.d 20 =H24E127013.d 50 =H24E127014.d

		Compound	0.1	1	5	10	20	50	Avg		%RSD
1)	S	Tetrachloro-m...			2.919	2.615	2.569	2.640	2.746	E7	5.63
2)	T	Hexachloroben...		3.389	3.175	2.769	2.715	2.829	3.014	E7	8.24
3)	T	alpha-BHC		3.790	4.081	3.801	3.847	4.086	4.095	E7	7.88
4)	T	gamma-BHC		3.589	3.800	3.516	3.505	3.705	3.756	E7	6.66
5)	T	Beta-BHC		1.854	1.692	1.533	1.452	1.498	1.603	E7	8.46
6)	T	Delta-BHC		3.346	3.456	3.245	3.287	3.498	3.531	E7	8.40
7)	T	Heptachlor		3.747	3.680	3.402	3.347	3.477	3.601	E7	5.19
8)	T	Aldrin		3.359	3.608	3.339	3.318	3.483	3.521	E7	5.60
9)	T	Alachlor				4.487	4.251	4.125	4.247	E6	3.64
10)	T	Heptachlor Ep...		3.259	3.330	3.017	2.946	3.053	3.168	E7	4.94
11)	T	Y-Chlordane		4.028	3.491	3.117	3.038	3.197	3.406	E7	9.81
12)	T	A-Chlordane		3.296	3.267	2.978	2.920	3.052	3.163	E7	5.47
13)	T	4,4-DDE		2.951	3.121	2.918	2.900	3.079	3.104	E7	6.59
14)	T	Endo-I		2.990	3.064	2.792	2.718	2.831	2.924	E7	4.79
15)	T	Dieldrin	3.759	3.225	3.333	3.052	3.011	3.180	3.309	E7	7.44
16)	T	Endrin		2.839	2.805	2.648	2.565	2.685	2.781	E7	5.59
17)	T	4,4-DDD		2.444	2.558	2.419	2.391	2.537	2.562	E7	6.56
18)	T	Endo-II		2.923	2.828	2.602	2.514	2.651	2.754	E7	5.85
19)	T	4,4-DDT		2.764	2.604	2.453	2.416	2.592	2.668	E7	7.79
20)	T	Endrin Aldehyde		2.227	2.094	2.037	1.975	2.089	2.100	E7	4.91
21)	T	Methoxychlor		1.603	1.464	1.349	1.258	1.291	1.400	E7	8.27
22)	T	End Sulf		2.781	2.608	2.402	2.316	2.438	2.558	E7	6.76
23)	T	Endrin Ketone		3.321	3.024	2.803	2.726	2.907	3.036	E7	7.72
24)	S	Decachlorobip...			2.479	2.245	2.064	2.059	2.220	E7	6.94
25)	L8	Chlordane{1}		1.312	1.198	1.196	1.169	1.295	1.229	E6	4.71
26)	L8	Chlordane{2}		1.771	1.627	1.655	1.656	1.825	1.710	E6	4.48
27)	L8	Chlordane{3}		1.644	1.537	1.456	1.377	1.475	1.458	E6	7.58
28)	L8	Chlordane{4}		5.184	4.669	4.718	4.690	5.200	4.889	E6	4.93
29)	L8	Chlordane{5}		1.278	1.187	1.222	1.213	1.365	1.266	E6	5.06
30)	H	Toxaphene			2.774	2.201	1.920	1.993	2.199	E7	13.72

Signal #2 Calibration Files
0.1 =H24E127009.d 1 =H24E127010.d 5 =H24E127011.d
10 =H24E127012.d 20 =H24E127013.d 50 =H24E127014.d

		Compound	0.1	1	5	10	20	50	Avg		%RSD
1)	S	Tetrachloro-m...			2.023	1.873	1.897	1.965	2.001	E7	5.42
2)	T	Hexachloroben...		2.317	2.277	2.079	2.056	2.142	2.220	E7	5.56
3)	T	alpha-BHC		2.448	2.788	2.643	2.715	2.908	2.860	E7	10.75
4)	T	gamma-BHC		2.339	2.634	2.505	2.540	2.703	2.670	E7	9.09
5)	T	Beta-BHC		1.191	1.168	1.067	1.049	1.095	1.132	E7	5.25
6)	T	Delta-BHC		2.174	2.458	2.385	2.452	2.625	2.563	E7	10.98
7)	T	Heptachlor		2.401	2.558	2.420	2.438	2.570	2.571	E7	6.73
8)	T	Aldrin		2.307	2.550	2.403	2.443	2.601	2.566	E7	7.91
9)	T	Alachlor				3.082	2.848	2.864	2.936	E6	3.42
10)	T	Heptachlor Ep...		2.251	2.333	2.173	2.169	2.286	2.306	E7	5.33
11)	T	Y-Chlordane		2.266	2.357	2.207	2.229	2.379	2.380	E7	7.16
12)	T	A-Chlordane		2.224	2.298	2.133	2.137	2.273	2.290	E7	6.35
13)	T	4,4-DDE		2.052	2.221	2.125	2.163	2.321	2.285	E7	8.85
14)	T	Endo-I		2.051	2.134	1.991	1.989	2.104	2.118	E7	5.80
15)	T	Dieldrin	2.468	2.174	2.302	2.183	2.209	2.364	2.362	E7	7.43
16)	T	Endrin		1.941	1.947	1.869	1.854	1.981	2.003	E7	7.60
17)	T	4,4-DDD		1.716	1.791	1.725	1.748	1.881	1.865	E7	8.96
18)	T	Endo-II		2.029	1.979	1.861	1.839	1.958	1.997	E7	6.37
19)	T	4,4-DDT		1.870	1.825	1.777	1.781	1.918	1.933	E7	9.11
20)	T	Endrin Aldehyde		1.560	1.486	1.464	1.450	1.567	1.536	E7	5.59
21)	T	Methoxychlor		1.205	1.035	0.964	0.924	0.968	1.036	E7	9.19
22)	T	End Sulf		1.970	1.847	1.749	1.715	1.828	1.882	E7	6.96
23)	T	Endrin Ketone		2.229	2.131	2.004	1.979	2.142	2.183	E7	7.75

Response Factor Report ECD 8

Method Path : C:\msdchem\1\methods\
Method File : 8PEST051424C.M
Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
Last Update : Wed May 15 15:06:28 2024
Response Via : Initial Calibration

Calibration Files
0.1 =H24E127009.d 1 =H24E127010.d 5 =H24E127011.d
10 =H24E127012.d 20 =H24E127013.d 50 =H24E127014.d

		Compound	0.1	1	5	10	20	50	Avg		%RSD
24)	S	Decachlorobip...			1.648	1.499	1.463	1.521	1.588	E7	6.65
25)	L8	Chlordane{1}		1.013	0.882	0.870	0.861	0.947	0.909	E6	6.09
26)	L8	Chlordane{2}		1.310	1.178	1.194	1.205	1.345	1.255	E6	5.29
27)	L8	Chlordane{3}		1.237	1.023	0.965	0.989	1.056	1.010	E6	11.61
28)	L8	Chlordane{4}		3.897	3.589	3.607	3.575	4.000	3.741	E6	4.73
29)	L8	Chlordane{5}		2.832	2.497	2.491	2.465	2.752	2.602	E6	5.69
30)	H	Toxaphene			1.674	1.594	1.656	1.751	1.701	E7	4.24

(#) = Out of Range ### Number of calibration levels exceeded format ###

DATA ANALYSIS PARAMETERS

Method Name: C:\msdchem\1\methods\8PEST051424C.M

Percent Report Settings

Sort By: Signal

Output Destination
    Screen: No
    Printer: Yes
    File: No

Integration Events: AutoIntegrate

Generate Report During Run Method: No

Signal Correlation Window: 0.020

Quantitative Report Settings

Report Type: Summary

Output Destination
    Screen: Yes
    Printer: Yes
    File: No

Generate Report During Run Method: No

PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
Calibration Last Updated: Wed May 15 15:06:28 2024

Reference Window: 0.20 Minutes
Non-Reference Window: 0.14 Minutes
Correlation Window: 0.02 minutes
Default Multiplier: 1.00
Default Sample Concentration: 0.00

Compound Information

1) Tetrachloro-m-xylene ( )
Ret. Time 2.909 min., Extract & Integrate from 2.879 to 2.939 min.

Lvl	ID	Conc (ug/L)	Response
0.1		not used for this compound	
1		not used for this compound	
5		5.000	145954512
10		10.000	261507964
20		20.000	513731731
50		50.000	1319984365
100		100.000	2872324935
200		200.000	5725169591

Curve Fit: Avg. RF

---

2) Hexachlorobenzene ( )
Ret. Time 3.228 min., Extract & Integrate from 3.198 to 3.258 min.

Lvl	ID	Conc (ug/L)	Response
0.1		not used for this compound	
1		1.000	33890676
5		5.000	158726999
10		10.000	276900493
20		20.000	542945443
50		50.000	1414302398
100		100.000	3094349647
200		200.000	6253824251

Curve Fit: Avg. RF

---

3) alpha-BHC ( )
Ret. Time 3.367 min., Extract & Integrate from 3.337 to 3.397 min.

Lvl	ID	Conc (ug/L)	Response
0.1		not used for this compound	
1		1.000	37901695
5		5.000	204043026
10		10.000	380136932
20		20.000	769315089
50		50.000	2043164268
100		100.000	4480941156
200		200.000	9157562577

Curve Fit: Avg. RF

---

4) gamma-BHC ( )
Ret. Time 3.627 min., Extract & Integrate from 3.597 to 3.657 min.

Lvl	ID	Conc (ug/L)	Response
0.1		not used for this compound	
1		1.000	35893453
5		5.000	190009249
10		10.000	351567533
20		20.000	700933282
50		50.000	1852284902
100		100.000	4060994544
200		200.000	8231297207

Curve Fit: Avg. RF

---

5) Beta-BHC ( )
Ret. Time 3.696 min., Extract & Integrate from 3.666 to 3.726 min.

Lvl	ID	Conc (ug/L)	Response
0.1		not used for this compound	
1		1.000	18544435
5		5.000	84622571
10		10.000	153256593
20		20.000	290344694
50		50.000	749182557
100		100.000	1606911181
200		200.000	3169406907

Curve Fit: Avg. RF

---

6) Delta-BHC ( )
Ret. Time 3.842 min., Extract & Integrate from 3.812 to 3.872 min.

Lvl	ID	Conc (ug/L)	Response

0.1	not used for this compound	
1	1.000	33456117
5	5.000	172815040
10	10.000	324490647
20	20.000	657366586
50	50.000	1749037960
100	100.000	3881567579
200	200.000	8006029048

Curve Fit: Avg. RF

---

7) Heptachlor ( )

Ret. Time 4.015 min., Extract & Integrate from 3.985 to 4.045 min.

Lvl	ID	Conc (ug/L)	Response
0.1		not used for this compound	
1		1.000	37472269
5		5.000	183983231
10		10.000	340151052
20		20.000	669345843
50		50.000	1738275657
100		100.000	3776884243
200		200.000	7552763777

Curve Fit: Avg. RF

---

8) Aldrin ( )

Ret. Time 4.262 min., Extract & Integrate from 4.232 to 4.292 min.

Lvl	ID	Conc (ug/L)	Response
0.1		not used for this compound	
1		1.000	33593395
5		5.000	180391476
10		10.000	333921706
20		20.000	663626934
50		50.000	1741589818
100		100.000	3770175190
200		200.000	7541130276

Curve Fit: Avg. RF

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9) Alachlor ( )

Ret. Time 4.379 min., Extract & Integrate from 4.349 to 4.409 min.

Lvl	ID	Conc (ug/L)	Response
0.1		not used for this compound	
1		not used for this compound	
5		not used for this compound	
10		10.000	44868872
20		20.000	85020122
50		50.000	206258559
100		100.000	427608184
200		200.000	819467772

Curve Fit: Avg. RF

---

10) Heptachlor Epoxide ( )

Ret. Time 4.760 min., Extract & Integrate from 4.730 to 4.790 min.

Lvl	ID	Conc (ug/L)	Response
0.1		not used for this compound	
1		1.000	32590072
5		5.000	166484827
10		10.000	301654414
20		20.000	589189877
50		50.000	1526445975

100	100.000	3286500199
200	200.000	6563853523

Curve Fit: Avg. RF

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11) Y-Chlordane ( )

Ret. Time 4.860 min., Extract & Integrate from 4.830 to 4.890 min.

Lvl	ID	Conc (ug/L)	Response
0.1		not used for this compound	
1		1.000	40282780
5		5.000	174542168
10		10.000	311657239
20		20.000	607666292
50		50.000	1598305925
100		100.000	3482187543
200		200.000	6982797665

Curve Fit: Avg. RF

---

12) A-Chlordane ( )

Ret. Time 4.969 min., Extract & Integrate from 4.939 to 4.999 min.

Lvl	ID	Conc (ug/L)	Response
0.1		not used for this compound	
1		1.000	32957996
5		5.000	163334160
10		10.000	297768768
20		20.000	584089152
50		50.000	1526129714
100		100.000	3304816975
200		200.000	6646336235

Curve Fit: Avg. RF

---

13) 4,4-DDE ( )

Ret. Time 5.030 min., Extract & Integrate from 5.000 to 5.060 min.

Lvl	ID	Conc (ug/L)	Response
0.1		not used for this compound	
1		1.000	29505355
5		5.000	156070393
10		10.000	291816228
20		20.000	579987021
50		50.000	1539673687
100		100.000	3372444533
200		200.000	6766403556

Curve Fit: Avg. RF

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14) Endo-I ( )

Ret. Time 5.084 min., Extract & Integrate from 5.054 to 5.114 min.

Lvl	ID	Conc (ug/L)	Response
0.1		not used for this compound	
1		1.000	29896485
5		5.000	153211968
10		10.000	279247724
20		20.000	543580686
50		50.000	1415498069
100		100.000	3040040729
200		200.000	6065020755

Curve Fit: Avg. RF

---

15) Dieldrin ( )
Ret. Time 5.280 min., Extract & Integrate from 5.250 to 5.310 min.

Lvl	ID	Conc (ug/L)	Response
0.1		0.100	3758807
1		1.000	32248728
5		5.000	166633486
10		10.000	305228970
20		20.000	602209721
50		50.000	1589983611
100		100.000	3451683972
200		200.000	6915886836

Curve Fit: Avg. RF

---

16) Endrin ( )
Ret. Time 5.472 min., Extract & Integrate from 5.452 to 5.492 min.

Lvl	ID	Conc (ug/L)	Response
0.1		not used for this compound	
1		1.000	28389098
5		5.000	140243813
10		10.000	264820023
20		20.000	512947298
50		50.000	1342515816
100		100.000	2926409439
200		200.000	5992075010

Curve Fit: Avg. RF

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17) 4,4-DDD ( )
Ret. Time 5.521 min., Extract & Integrate from 5.501 to 5.541 min.

Lvl	ID	Conc (ug/L)	Response
0.1		not used for this compound	
1		1.000	24444068
5		5.000	127876146
10		10.000	241921666
20		20.000	478227056
50		50.000	1268540954
100		100.000	2778969397
200		200.000	5606738060

Curve Fit: Avg. RF

---

18) Endo-II ( )
Ret. Time 5.655 min., Extract & Integrate from 5.625 to 5.685 min.

Lvl	ID	Conc (ug/L)	Response
0.1		not used for this compound	
1		1.000	29228838
5		5.000	141378887
10		10.000	260232470
20		20.000	502878068
50		50.000	1325628431
100		100.000	2875955440
200		200.000	5762394297

Curve Fit: Avg. RF

---

19) 4,4-DDT ( )
Ret. Time 5.752 min., Extract & Integrate from 5.722 to 5.782 min.

Lvl	ID	Conc (ug/L)	Response
0.1		not used for this compound	

1	1.000	27640381
5	5.000	130175912
10	10.000	245283245
20	20.000	483122613
50	50.000	1295866632
100	100.000	2915145500
200	200.000	5860182259

Curve Fit: Avg. RF

---

20) Endrin Aldehyde ( )
Ret. Time 5.994 min., Extract & Integrate from 5.964 to 6.024 min.

Lvl	ID	Conc (ug/L)	Response
0.1		not used for this compound	
1		1.000	22267867
5		5.000	104677674
10		10.000	203726153
20		20.000	394914386
50		50.000	1044513657
100		100.000	2027611322
200		200.000	4501159714

Curve Fit: Avg. RF

---

21) Methoxychlor ( )
Ret. Time 6.122 min., Extract & Integrate from 6.092 to 6.152 min.

Lvl	ID	Conc (ug/L)	Response
0.1		not used for this compound	
1		1.000	16025665
5		5.000	73200159
10		10.000	134931001
20		20.000	251521642
50		50.000	645624756
100		100.000	1421758816
200		200.000	2826779908

Curve Fit: Avg. RF

---

22) End Sulf ( )
Ret. Time 6.307 min., Extract & Integrate from 6.277 to 6.337 min.

Lvl	ID	Conc (ug/L)	Response
0.1		not used for this compound	
1		1.000	27812363
5		5.000	130402233
10		10.000	240181565
20		20.000	463265472
50		50.000	1218983489
100		100.000	2664988054
200		200.000	5385197562

Curve Fit: Avg. RF

---

23) Endrin Ketone ( )
Ret. Time 6.490 min., Extract & Integrate from 6.460 to 6.521 min.

Lvl	ID	Conc (ug/L)	Response
0.1		not used for this compound	
1		1.000	33211895
5		5.000	151203238
10		10.000	280307399
20		20.000	545211966
50		50.000	1453282360
100		100.000	3208512857

200	200.000	6526188453

Curve Fit: Avg. RF

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24) Decachlorobiphenyl ( )
Ret. Time 7.058 min., Extract & Integrate from 7.028 to 7.088 min.

Lvl	ID	Conc (ug/L)	Response
0.1		not used for this compound	
1		not used for this compound	
5		5.000	123970182
10		10.000	224503073
20		20.000	412748327
50		50.000	1029658915
100		100.000	2235872984
200		200.000	4471563379

Curve Fit: Avg. RF

---

25) Chlordane{1} ( )
Ret. Time 3.950 min., Extract & Integrate from 3.920 to 3.980 min.

Lvl	ID	Conc (ug/L)	Response
0.1		not used for this compound	
1		10.000	13121769
5		20.000	23961444
10		50.000	59808750
20		100.000	116852992
50		200.000	258926420
100		250.000	313566678
200		500.000	589356119

Curve Fit: Avg. RF

---

26) Chlordane{2} ( )
Ret. Time 4.015 min., Extract & Integrate from 3.985 to 4.045 min.

Lvl	ID	Conc (ug/L)	Response
0.1		not used for this compound	
1		10.000	17705392
5		20.000	32543153
10		50.000	82729155
20		100.000	165649465
50		200.000	364989275
100		250.000	442601320
200		500.000	832970798

Curve Fit: Avg. RF

---

27) Chlordane{3} ( )
Ret. Time 4.374 min., Extract & Integrate from 4.344 to 4.404 min.

Lvl	ID	Conc (ug/L)	Response
0.1		not used for this compound	
1		10.000	16443822
5		20.000	30738614
10		50.000	72789409
20		100.000	137661760
50		200.000	294924498
100		250.000	354302216
200		500.000	651830819

Curve Fit: Avg. RF

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28) Chlordane{4} ( )
Ret. Time 4.859 min., Extract & Integrate from 4.829 to 4.889 min.

Lvl	ID	Conc (ug/L)	Response
0.1		not used for this compound	
1		10.000	51839037
5		20.000	93370752
10		50.000	235904239
20		100.000	468950007
50		200.000	1040022381
100		250.000	1259146747
200		500.000	2363995851

Curve Fit: Avg. RF

---

29) Chlordane{5} ( )
Ret. Time 5.599 min., Extract & Integrate from 5.569 to 5.629 min.

Lvl	ID	Conc (ug/L)	Response
0.1		not used for this compound	
1		10.000	12781044
5		20.000	23737732
10		50.000	61101768
20		100.000	121325274
50		200.000	272983316
100		250.000	331774924
200		500.000	635978279

Curve Fit: Avg. RF

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30) Toxaphene ( )
Ret. Time 5.751 min., Extract & Integrate from 4.451 to 6.851 min.

Lvl	ID	Conc (ug/L)	Response
0.1		not used for this compound	
1		not used for this compound	
5		50.000	1387046072
10		100.000	2200784903
20		200.000	3840784101
50		250.000	4982393234
100		500.000	10748360847
200		750.000	16163659666

Curve Fit: Avg. RF

---

31) Signal #2 ( )
Ret. Time 7.444 min., Extract & Integrate from 6.144 to 8.644 min.

Lvl	ID	Conc (ug/L)	Response
0.1		not used for this compound	
1		not used for this compound	
5		not used for this compound	
10		not used for this compound	
20		not used for this compound	
50		not used for this compound	
100		not used for this compound	
200		not used for this compound	

Curve Fit: Avg. RF

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32) Tetrachloro-m-xylene #2 ( )
Ret. Time 2.774 min., Extract & Integrate from 2.744 to 2.804 min.

Lvl	ID	Conc (ug/L)	Response
0.1		not used for this compound	
1		not used for this compound	

5	5.000	101171961
10	10.000	187322970
20	20.000	379460793
50	50.000	982255384
100	100.000	2132845896
200	200.000	4225566632

Curve Fit: Avg. RF

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33) Hexachlorobenzene #2 ( )
Ret. Time 3.143 min., Extract & Integrate from 3.113 to 3.173 min.

Lvl	ID	Conc (ug/L)	Response
0.1		not used for this compound	
1		1.000	23170539
5		5.000	113828949
10		10.000	207913473
20		20.000	411235770
50		50.000	1071167934
100		100.000	2330067791
200		200.000	4676207018

Curve Fit: Avg. RF

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34) alpha-BHC #2 ( )
Ret. Time 3.257 min., Extract & Integrate from 3.227 to 3.287 min.

Lvl	ID	Conc (ug/L)	Response
0.1		not used for this compound	
1		1.000	24483584
5		5.000	139381373
10		10.000	264269549
20		20.000	543012576
50		50.000	1454144679
100		100.000	3232559124
200		200.000	6576612942

Curve Fit: Avg. RF

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35) gamma-BHC #2 ( )
Ret. Time 3.538 min., Extract & Integrate from 3.508 to 3.568 min.

Lvl	ID	Conc (ug/L)	Response
0.1		not used for this compound	
1		1.000	23387628
5		5.000	131715453
10		10.000	250539878
20		20.000	507987177
50		50.000	1351428787
100		100.000	2969487295
200		200.000	5995236832

Curve Fit: Avg. RF

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36) Beta-BHC #2 ( )
Ret. Time 3.605 min., Extract & Integrate from 3.575 to 3.635 min.

Lvl	ID	Conc (ug/L)	Response
0.1		not used for this compound	
1		1.000	11908628
5		5.000	58397162
10		10.000	106654457
20		20.000	209761498
50		50.000	547730459
100		100.000	1178630567
200		200.000	2346378294

Curve Fit: Avg. RF

37) Delta-BHC #2 ( )
Ret. Time 3.836 min., Extract & Integrate from 3.806 to 3.866 min.

Lvl	ID	Conc (ug/L)	Response
0.1		not used for this compound	
1		1.000	21738277
5		5.000	122914184
10		10.000	238478954
20		20.000	490345024
50		50.000	1312687204
100		100.000	2885243264
200		200.000	5927736484

Curve Fit: Avg. RF

38) Heptachlor #2 ( )
Ret. Time 3.885 min., Extract & Integrate from 3.855 to 3.915 min.

Lvl	ID	Conc (ug/L)	Response
0.1		not used for this compound	
1		1.000	24012982
5		5.000	127900239
10		10.000	241960653
20		20.000	487662999
50		50.000	1284933571
100		100.000	2805237368
200		200.000	5613222967

Curve Fit: Avg. RF

39) Aldrin #2 ( )
Ret. Time 4.141 min., Extract & Integrate from 4.111 to 4.171 min.

Lvl	ID	Conc (ug/L)	Response
0.1		not used for this compound	
1		1.000	23072465
5		5.000	127490859
10		10.000	240347392
20		20.000	488651351
50		50.000	1300586060
100		100.000	2830478869
200		200.000	5651033703

Curve Fit: Avg. RF

40) Alachlor #2 ( )
Ret. Time 4.070 min., Extract & Integrate from 4.040 to 4.100 min.

Lvl	ID	Conc (ug/L)	Response
0.1		not used for this compound	
1		not used for this compound	
5		not used for this compound	
10		10.000	30823749
20		20.000	56953707
50		50.000	143223944
100		100.000	299740778
200		200.000	577848295

Curve Fit: Avg. RF

41) Heptachlor Epoxide #2 ( )

Ret. Time 4.600 min., Extract & Integrate from 4.570 to 4.630 min.

Lvl	ID	Conc (ug/L)	Response
0.1		not used for this compound	
1		1.000	22505314
5		5.000	116671289
10		10.000	217270512
20		20.000	433855460
50		50.000	1142919789
100		100.000	2456999569
200		200.000	4942072376

Curve Fit: Avg. RF

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42) Y-Chlordane #2 ( )

Ret. Time 4.752 min., Extract & Integrate from 4.722 to 4.782 min.

Lvl	ID	Conc (ug/L)	Response
0.1		not used for this compound	
1		1.000	22658396
5		5.000	117861102
10		10.000	220671978
20		20.000	445865494
50		50.000	1189743334
100		100.000	2606795511
200		200.000	5234996774

Curve Fit: Avg. RF

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43) A-Chlordane #2 ( )

Ret. Time 4.870 min., Extract & Integrate from 4.840 to 4.900 min.

Lvl	ID	Conc (ug/L)	Response
0.1		not used for this compound	
1		1.000	22243162
5		5.000	114911421
10		10.000	213292367
20		20.000	427416054
50		50.000	1136272270
100		100.000	2480642577
200		200.000	4968978179

Curve Fit: Avg. RF

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44) 4,4-DDE #2 ( )

Ret. Time 5.013 min., Extract & Integrate from 4.983 to 5.043 min.

Lvl	ID	Conc (ug/L)	Response
0.1		not used for this compound	
1		1.000	20522709
5		5.000	111034029
10		10.000	212547285
20		20.000	432683467
50		50.000	1160635778
100		100.000	2552764992
200		200.000	5112098357

Curve Fit: Avg. RF

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45) Endo-I #2 ( )

Ret. Time 4.913 min., Extract & Integrate from 4.883 to 4.943 min.

Lvl	ID	Conc (ug/L)	Response
0.1		not used for this compound	
1		1.000	20505346
5		5.000	106679498

10	10.000	199146436
20	20.000	397706452
50	50.000	1052169000
100	100.000	2281817447
200	200.000	4558333920

Curve Fit: Avg. RF

46) Dieldrin #2 ( )
Ret. Time 5.135 min., Extract & Integrate from 5.105 to 5.165 min.

Lvl	ID	Conc (ug/L)	Response
0.1		0.100	2468456
1		1.000	21741814
5		5.000	115103302
10		10.000	218345417
20		20.000	441788107
50		50.000	1182129931
100		100.000	2591372700
200		200.000	5203797529

Curve Fit: Avg. RF

47) Endrin #2 ( )
Ret. Time 5.371 min., Extract & Integrate from 5.351 to 5.391 min.

Lvl	ID	Conc (ug/L)	Response
0.1		not used for this compound	
1		1.000	19406954
5		5.000	97332729
10		10.000	186949561
20		20.000	370839277
50		50.000	990687007
100		100.000	2183686429
200		200.000	4490840017

Curve Fit: Avg. RF

48) 4,4-DDD #2 ( )
Ret. Time 5.483 min., Extract & Integrate from 5.463 to 5.503 min.

Lvl	ID	Conc (ug/L)	Response
0.1		not used for this compound	
1		1.000	17164809
5		5.000	89559317
10		10.000	172456316
20		20.000	349616364
50		50.000	940382938
100		100.000	2084045099
200		200.000	4213150807

Curve Fit: Avg. RF

49) Endo-II #2 ( )
Ret. Time 5.554 min., Extract & Integrate from 5.524 to 5.584 min.

Lvl	ID	Conc (ug/L)	Response
0.1		not used for this compound	
1		1.000	20290046
5		5.000	98925786
10		10.000	186052744
20		20.000	367786835
50		50.000	978900525
100		100.000	2150220483
200		200.000	4323472500

Curve Fit: Avg. RF

50) 4,4-DDT #2 ( )
Ret. Time 5.740 min., Extract & Integrate from 5.710 to 5.770 min.

Lvl	ID	Conc (ug/L)	Response
0.1		not used for this compound	
1		1.000	18701515
5		5.000	91242087
10		10.000	177736164
20		20.000	356114775
50		50.000	959216029
100		100.000	2168557077
200		200.000	4385628245

Curve Fit: Avg. RF

51) Endrin Aldehyde #2 ( )
Ret. Time 5.832 min., Extract & Integrate from 5.802 to 5.862 min.

Lvl	ID	Conc (ug/L)	Response
0.1		not used for this compound	
1		1.000	15596139
5		5.000	74299675
10		10.000	146389844
20		20.000	289908266
50		50.000	783538988
100		100.000	1525773504
200		200.000	3403562426

Curve Fit: Avg. RF

52) Methoxychlor #2 ( )
Ret. Time 6.257 min., Extract & Integrate from 6.227 to 6.287 min.

Lvl	ID	Conc (ug/L)	Response
0.1		not used for this compound	
1		1.000	12053369
5		5.000	51755675
10		10.000	96446813
20		20.000	184876130
50		50.000	484186396
100		100.000	1076454792
200		200.000	2162070979

Curve Fit: Avg. RF

53) End Sulf #2 ( )
Ret. Time 6.046 min., Extract & Integrate from 6.016 to 6.076 min.

Lvl	ID	Conc (ug/L)	Response
0.1		not used for this compound	
1		1.000	19698591
5		5.000	92333284
10		10.000	174851663
20		20.000	343035982
50		50.000	913752793
100		100.000	2017319077
200		200.000	4091890279

Curve Fit: Avg. RF

54) Endrin Ketone #2 ( )
Ret. Time 6.407 min., Extract & Integrate from 6.377 to 6.437 min.

Lvl	ID	Conc (ug/L)	Response
0.1		not used for this compound	
1		1.000	22290515
5		5.000	106554764
10		10.000	200425231
20		20.000	395851975
50		50.000	1070878443
100		100.000	2377100429
200		200.000	4830882450

Curve Fit: Avg. RF

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55) Decachlorobiphenyl #2 ( )
Ret. Time 7.105 min., Extract & Integrate from 7.075 to 7.135 min.

Lvl	ID	Conc (ug/L)	Response
0.1		not used for this compound	
1		not used for this compound	
5		5.000	82401106
10		10.000	149853459
20		20.000	292569509
50		50.000	760679550
100		100.000	1691627793
200		200.000	3405967104

Curve Fit: Avg. RF

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56) Chlordane{1} #2 ( )
Ret. Time 3.770 min., Extract & Integrate from 3.740 to 3.800 min.

Lvl	ID	Conc (ug/L)	Response
0.1		not used for this compound	
1		10.000	10132751
5		20.000	17643507
10		50.000	43521145
20		100.000	86103378
50		200.000	189327779
100		250.000	229308551
200		500.000	435064257

Curve Fit: Avg. RF

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57) Chlordane{2} #2 ( )
Ret. Time 3.885 min., Extract & Integrate from 3.855 to 3.915 min.

Lvl	ID	Conc (ug/L)	Response
0.1		not used for this compound	
1		10.000	13101700
5		20.000	23566544
10		50.000	59722469
20		100.000	120545950
50		200.000	268925486
100		250.000	327918720
200		500.000	621379803

Curve Fit: Avg. RF

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58) Chlordane{3} #2 ( )
Ret. Time 4.265 min., Extract & Integrate from 4.234 to 4.295 min.

Lvl	ID	Conc (ug/L)	Response
0.1		not used for this compound	
1		10.000	12369193
5		20.000	20452476
10		50.000	48249873

20	100.000	98866760
50	200.000	211275614
100	250.000	235174629
200	500.000	431573460

Curve Fit: Avg. RF

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59) Chlordane{4} #2 ( )

Ret. Time 4.828 min., Extract & Integrate from 4.798 to 4.858 min.

Lvl	ID	Conc (ug/L)	Response
0.1		not used for this compound	
1		10.000	38969053
5		20.000	71778508
10		50.000	180357916
20		100.000	357477624
50		200.000	799943514
100		250.000	968833260
200		500.000	1821747311

Curve Fit: Avg. RF

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60) Chlordane{5} #2 ( )

Ret. Time 4.869 min., Extract & Integrate from 4.839 to 4.899 min.

Lvl	ID	Conc (ug/L)	Response
0.1		not used for this compound	
1		10.000	28323852
5		20.000	49930179
10		50.000	124558647
20		100.000	246514603
50		200.000	550331610
100		250.000	667315402
200		500.000	1252966186

Curve Fit: Avg. RF

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61) Toxaphene #2 ( )

Ret. Time 5.623 min., Extract & Integrate from 4.323 to 6.923 min.

Lvl	ID	Conc (ug/L)	Response
0.1		not used for this compound	
1		not used for this compound	
5		50.000	837131312
10		100.000	1594047717
20		200.000	3312141118
50		250.000	4376935969
100		500.000	8927947744
200		750.000	13107797093

Curve Fit: Avg. RF

END OF DATA ANALYSIS PARAMETERS

Wed May 15 15:19:57 2024

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127009.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 10:30 am
Operator : PJG
Sample : PEST 0.1 Inst : ECD 8
Misc : mix[s,t]
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:03:59 2024
Quant Method : C:\msdchem\1\methods\8PEST051424.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Tue May 14 13:52:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
		System Monitoring Compounds						
1)	S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
24)	S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)	T	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
3)	T	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	T	gamma-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	T	Beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6)	T	Delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	T	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
8)	T	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
9)	T	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
10)	T	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
11)	T	Y-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
12)	T	A-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
13)	T	4,4-DDE	0.000	0.000	0	0	N.D. d	N.D. d
14)	T	Endo-I	0.000	0.000	0	0	N.D. d	N.D. d
15)	T	Dieldrin	5.273	5.126	3758807	2468456	NoCal	NoCal
16)	T	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
17)	T	4,4-DDD	0.000	0.000	0	0	N.D. d	N.D. d
18)	T	Endo-II	0.000	0.000	0	0	N.D. d	N.D. d
19)	T	4,4-DDT	0.000	0.000	0	0	N.D. d	N.D. d
20)	T	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
21)	T	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
22)	T	End Sulf	0.000	0.000	0	0	N.D. d	N.D. d
23)	T	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
25)	L8	Chlordane{1}	0.000	0.000	0	0	N.D.	N.D.
26)	L8	Chlordane{2}	0.000	0.000	0	0	N.D. d	N.D. d
27)	L8	Chlordane{3}	0.000	0.000	0	0	N.D.	N.D.
28)	L8	Chlordane{4}	0.000	0.000	0	0	N.D. d	N.D.
29)	L8	Chlordane{5}	0.000	0.000	0	0	N.D.	N.D. d
		Sum Chlordane			0	0	N.D.	N.D.
		Average Chlordane					0.000	0.000
30)	H	Toxaphene	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

CHECKED BY:

MAY 15 2024

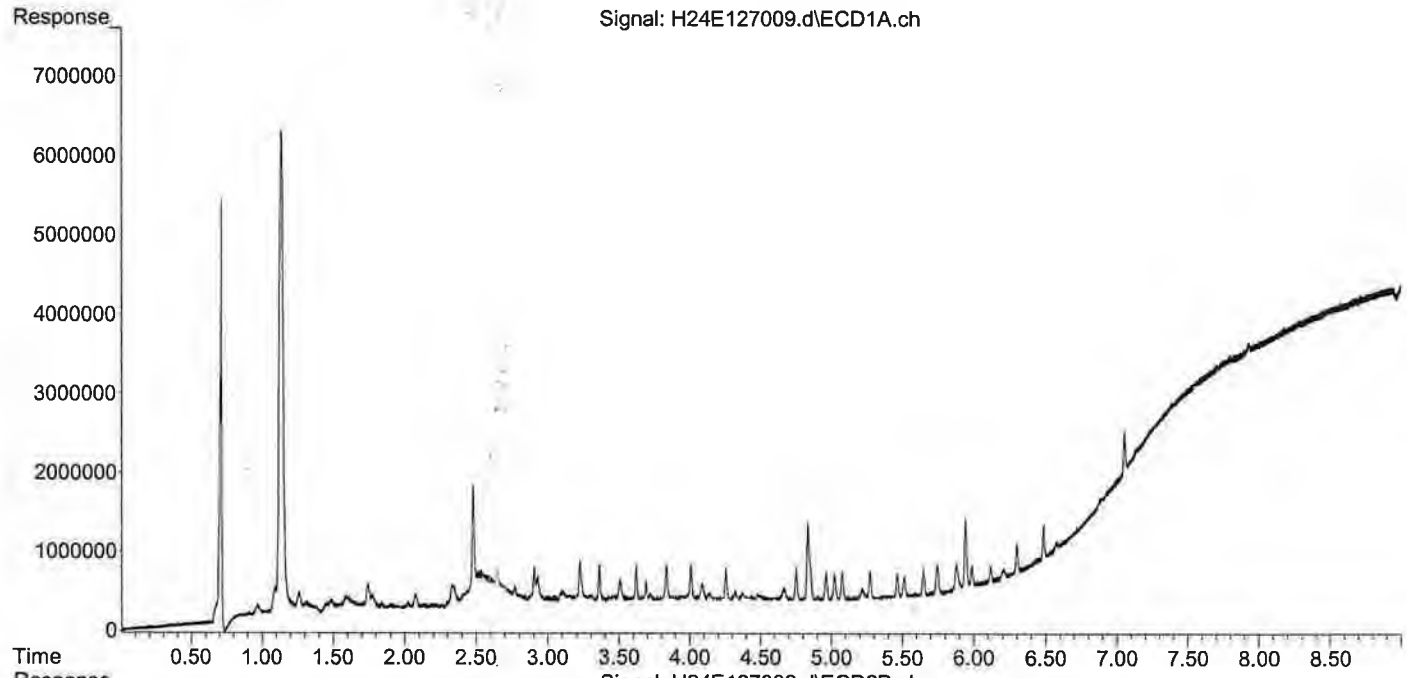
Todd Gionfriddo

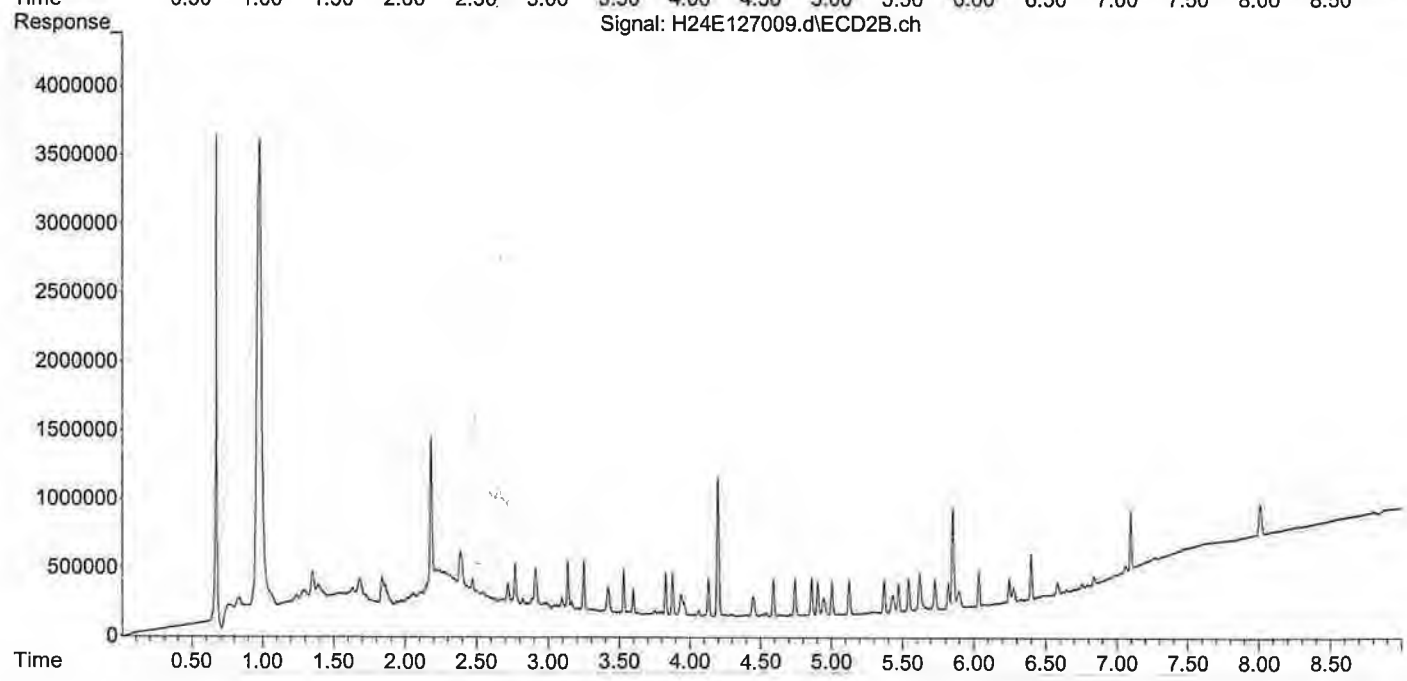
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127009.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 10:30 am
Operator : PJG
Sample : PEST 0.1 Inst : ECD 8
Misc : mix[s,t]
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:03:59 2024
Quant Method : C:\msdchem\1\methods\8PEST051424.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Tue May 14 13:52:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127010.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 10:42 am
Operator : PJG
Sample : PEST 1 Inst : ECD 8
Misc : mix[s,t]
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:04:56 2024
Quant Method : C:\msdchem\1\methods\8PEST051424.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Tue May 14 13:52:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
		System Monitoring Compounds						
1)	S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
24)	S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)	T	Hexachlor...	3.224	3.136	33890676	23170539	NoCal	NoCal
3)	T	alpha-BHC	3.363	3.250	37901695	24483584	NoCal	NoCal
4)	T	gamma-BHC	3.622	3.530	35893453	23387628	NoCal	NoCal
5)	T	Beta-BHC	3.692	3.598	18544435	11908628	NoCal	NoCal
6)	T	Delta-BHC	3.837	3.828	33456117	21738277	NoCal	NoCal
7)	T	Heptachlor	4.010	3.877	37472269	24012982	NoCal	NoCal
8)	T	Aldrin	4.257	4.133	33593395	23072465	NoCal	NoCal
9)	T	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
10)	T	Heptachlo...	4.753	4.591	32590072	22505314	NoCal	NoCal
11)	T	Y-Chlordane	4.854	4.743	40282780	22658396	NoCal	NoCal
12)	T	A-Chlordane	4.963	4.861	32957996	22243162	NoCal	NoCal
13)	T	4,4-DDE	5.025	5.004	29505355	20522709	NoCal	NoCal
14)	T	Endo-I	5.078	4.904	29896485	20505346	NoCal	NoCal
15)	T	Dieldrin	5.274	5.126	32248728	21741814	NoCal	NoCal
16)	T	Endrin	5.466	5.371	28389098	19406954	NoCal	NoCal
17)	T	4,4-DDD	5.515	5.473	24444068	17164809	NoCal	NoCal
18)	T	Endo-II	5.649	5.545	29228838	20290046	NoCal	NoCal
19)	T	4,4-DDT	5.746	5.731	27640381	18701515	NoCal	NoCal
20)	T	Endrin Al...	5.989	5.823	22267867	15596139	NoCal	NoCal
21)	T	Methoxychlor	6.118	6.249	16025665	12053369	NoCal	NoCal
22)	T	End Sulf	6.302	6.037	27812363	19698591	NoCal	NoCal
23)	T	Endrin Ke...	6.486	6.400	33211895	22290515	NoCal	NoCal
25)	L8	Chlordane{1}	0.000	0.000	0	0	N.D.	N.D.
26)	L8	Chlordane{2}	0.000	0.000	0	0	N.D. d	N.D. d
27)	L8	Chlordane{3}	0.000	0.000	0	0	N.D. d	N.D.
28)	L8	Chlordane{4}	0.000	0.000	0	0	N.D. d	N.D.
29)	L8	Chlordane{5}	0.000	0.000	0	0	N.D.	N.D. d
		Sum Chlordane			0	0	N.D.	N.D.
		Average Chlordane					0.000	0.000
30)	H	Toxaphene	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

CHECKED BY:

MAY 15 2024

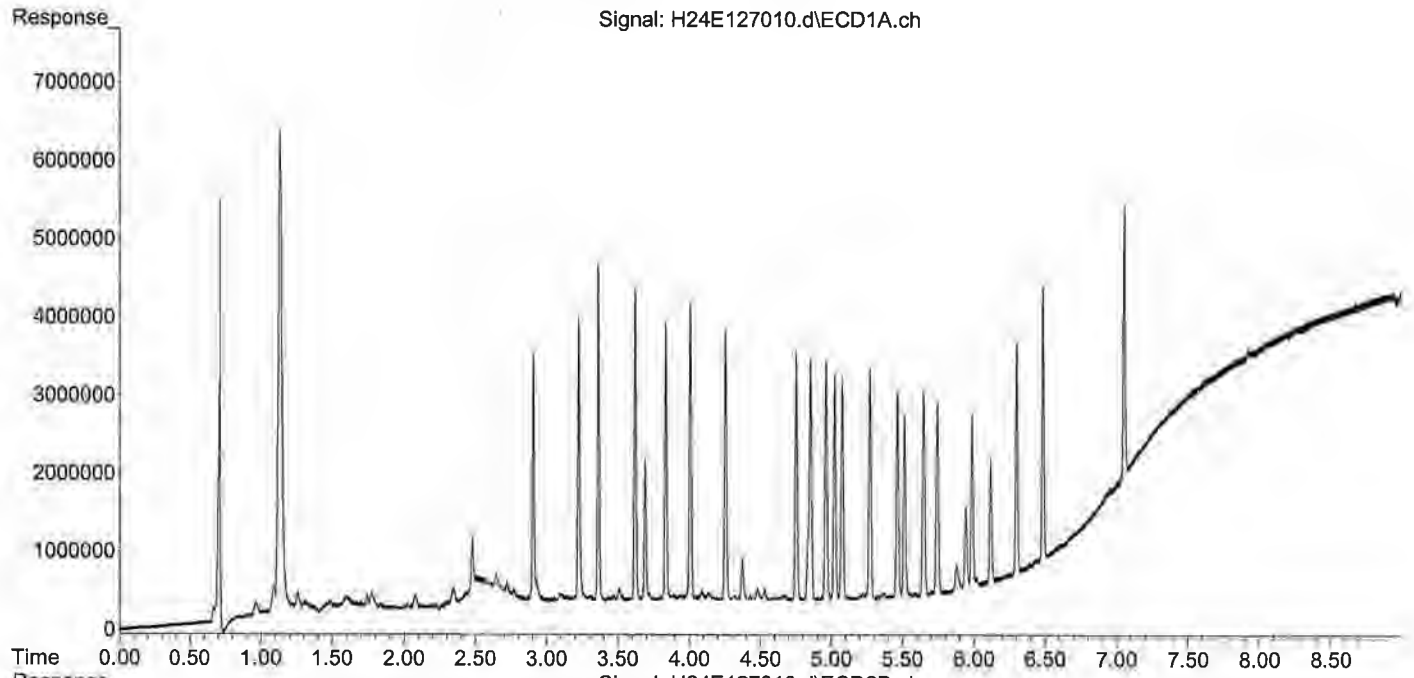
Todd Gionfriddo

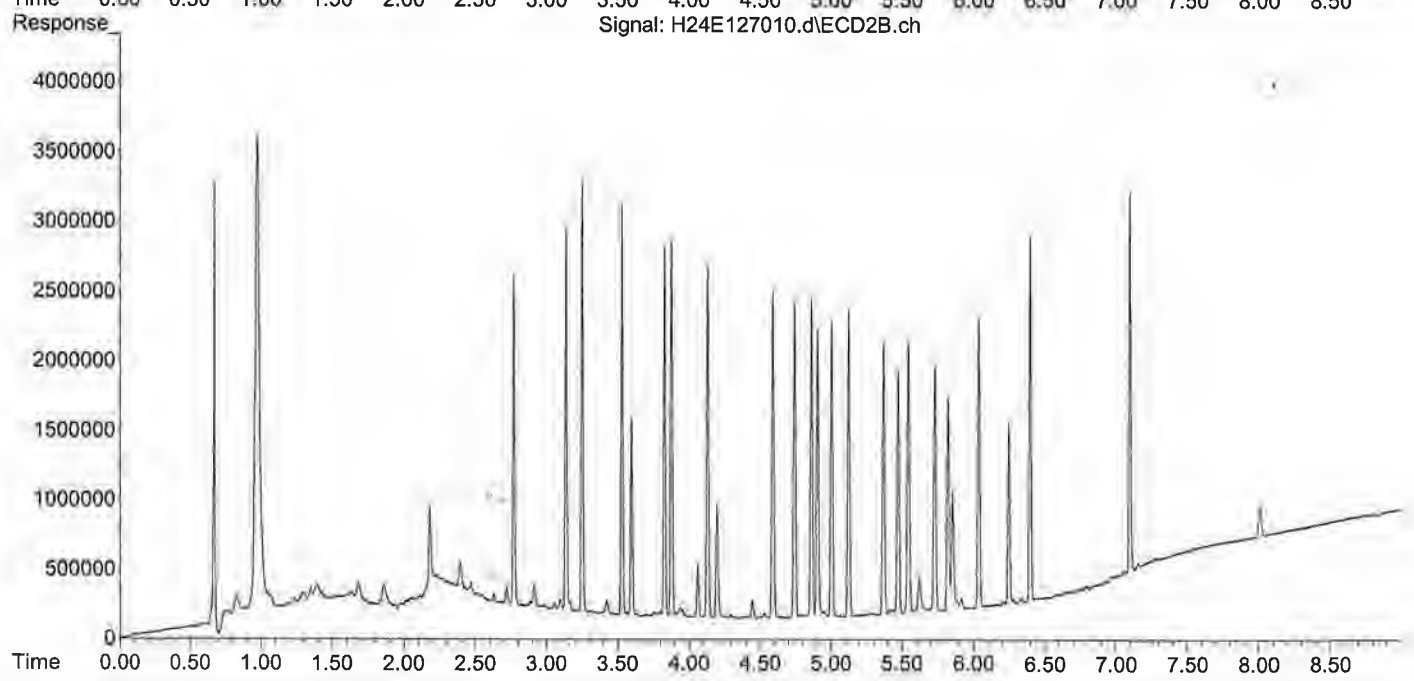
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127010.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 10:42 am
Operator : PJG
Sample : PEST 1 Inst : ECD 8
Misc : mix[s,t]
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:04:56 2024
Quant Method : C:\msdchem\1\methods\8PEST051424.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Tue May 14 13:52:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127011.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 10:54 am
Operator : PJG
Sample : PEST 5 Inst : ECD 8
Misc : mix[s,t]
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:05:12 2024
Quant Method : C:\msdchem\1\methods\8PEST051424.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Tue May 14 13:52:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
		System Monitoring Compounds						
1)	S	Tetrachlo...	2.905	2.769	146.0E6	101.2E6	NoCal	NoCal
24)	S	Decachlor...	7.054	7.097	124.0E6	82401106	NoCal	NoCal
		Target Compounds						
2)	T	Hexachlor...	3.224	3.137	158.7E6	113.8E6	NoCal	NoCal
3)	T	alpha-BHC	3.363	3.250	204.0E6	139.4E6	NoCal	NoCal
4)	T	gamma-BHC	3.623	3.531	190.0E6	131.7E6	NoCal	NoCal
5)	T	Beta-BHC	3.692	3.598	84622571	58397162	NoCal	NoCal
6)	T	Delta-BHC	3.837	3.829	172.8E6	122.9E6	NoCal	NoCal
7)	T	Heptachlor	4.011	3.878	184.0E6	127.9E6	NoCal	NoCal
8)	T	Aldrin	4.257	4.133	180.4E6	127.5E6	NoCal	NoCal
9)	T	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
10)	T	Heptachlo...	4.755	4.592	166.5E6	116.7E6	NoCal	NoCal
11)	T	Y-Chlordane	4.855	4.744	174.5E6	117.9E6	NoCal	NoCal
12)	T	A-Chlordane	4.964	4.862	163.3E6	114.9E6	NoCal	NoCal
13)	T	4,4-DDE	5.025	5.005	156.1E6	111.0E6	NoCal	NoCal
14)	T	Endo-I	5.078	4.905	153.2E6	106.7E6	NoCal	NoCal
15)	T	Dieldrin	5.275	5.126	166.6E6	115.1E6	NoCal	NoCal
16)	T	Endrin	5.467	5.372	140.2E6	97332729	NoCal	NoCal
17)	T	4,4-DDD	5.516	5.474	127.9E6	89559317	NoCal	NoCal
18)	T	Endo-II	5.651	5.545	141.4E6	98925786	NoCal	NoCal
19)	T	4,4-DDT	5.747	5.730	130.2E6	91242087	NoCal	NoCal
20)	T	Endrin Al...	5.990	5.823	104.7E6	74299675	NoCal	NoCal
21)	T	Methoxychlor	6.119	6.249	73200159	51755675	NoCal	NoCal
22)	T	End Sulf	6.303	6.037	130.4E6	92333284	NoCal	NoCal
23)	T	Endrin Ke...	6.486	6.399	151.2E6	106.6E6	NoCal	NoCal
25)	L8	Chlordane{1}	0.000	0.000	0	0	N.D.	N.D.
26)	L8	Chlordane{2}	0.000	0.000	0	0	N.D. d	N.D. d
27)	L8	Chlordane{3}	0.000	0.000	0	0	N.D. d	N.D.
28)	L8	Chlordane{4}	0.000	0.000	0	0	N.D. d	N.D.
29)	L8	Chlordane{5}	0.000	0.000	0	0	N.D.	N.D. d
		Sum Chlordane			0	0	N.D.	N.D.
		Average Chlordane					0.000	0.000
30)	H	Toxaphene	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

CHECKED BY:

MAY 15 2024

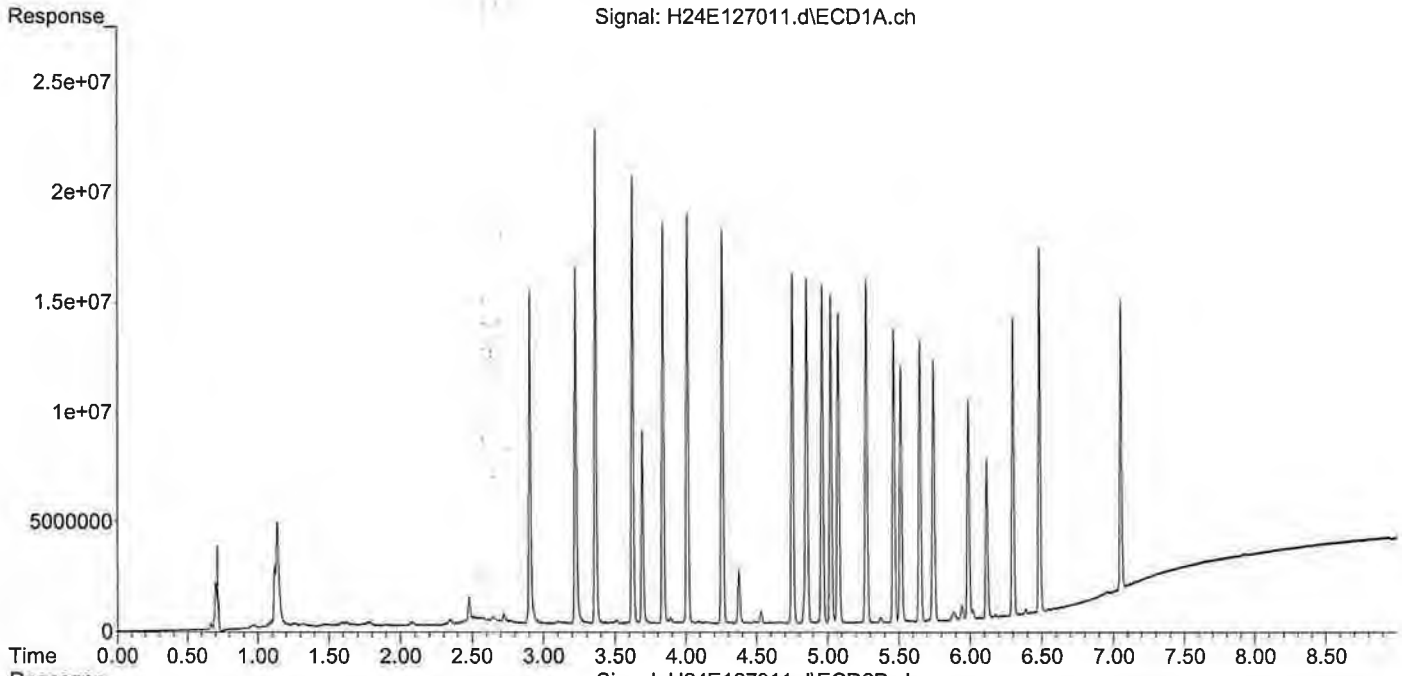
Todd Gionfriddo

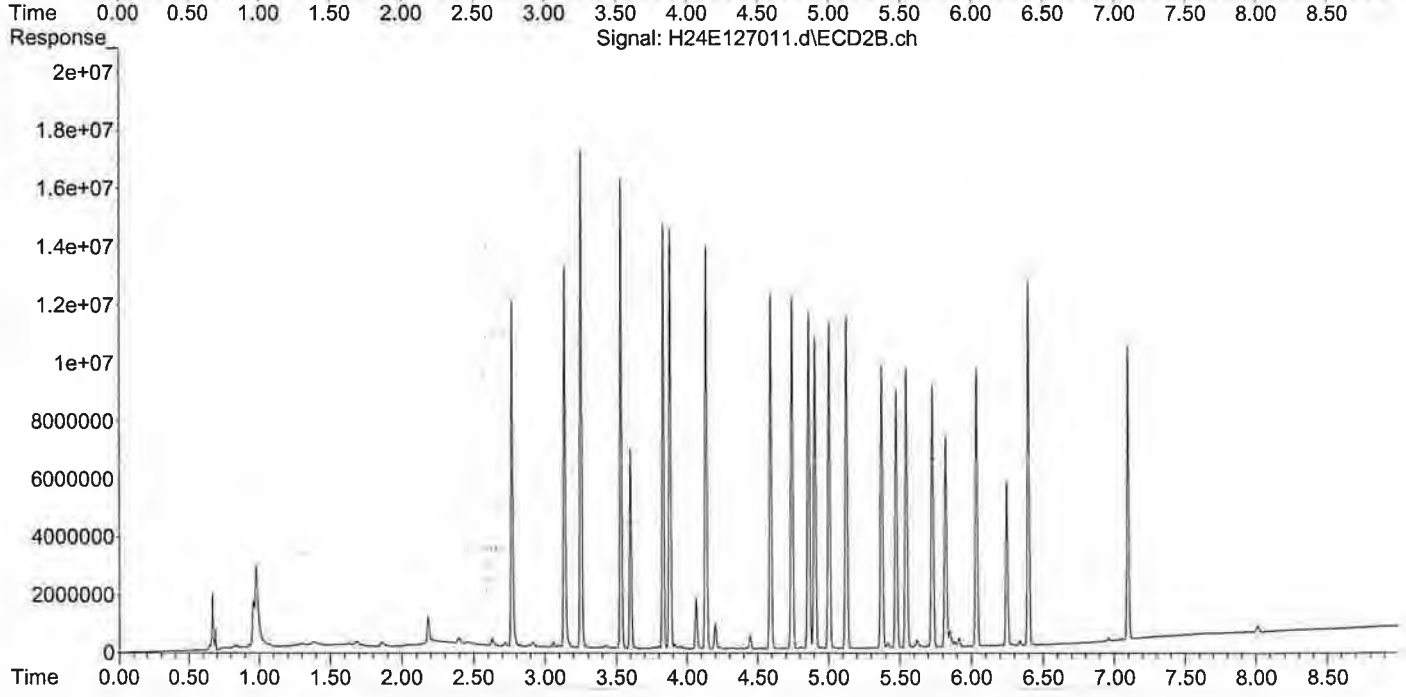
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127011.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 10:54 am
Operator : PJG
Sample : PEST 5 Inst : ECD 8
Misc : mix[s,t]
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:05:12 2024
Quant Method : C:\msdchem\1\methods\8PEST051424.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Tue May 14 13:52:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127012.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 11:06 am
Operator : PJG
Sample : PEST 10 Inst : ECD 8
Misc : mix[s,t]
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:02:56 2024
Quant Method : C:\msdchem\1\methods\8PEST051424.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Tue May 14 13:52:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
		System Monitoring Compounds						
1)	S	Tetrachlo...	2.905	2.768	261.5E6	187.3E6	NoCal	NoCal
24)	S	Decachlor...	7.055	7.097	224.5E6	149.9E6	NoCal	NoCal
		Target Compounds						
2)	T	Hexachlor...	3.224	3.136	276.9E6	207.9E6	NoCal	NoCal
3)	T	alpha-BHC	3.363	3.250	380.1E6	264.3E6	NoCal	NoCal
4)	T	gamma-BHC	3.622	3.531	351.6E6	250.5E6	NoCal	NoCal
5)	T	Beta-BHC	3.692	3.598	153.3E6	106.7E6	NoCal	NoCal
6)	T	Delta-BHC	3.837	3.829	324.5E6	238.5E6	NoCal	NoCal
7)	T	Heptachlor	4.010	3.878	340.2E6	242.0E6	NoCal	NoCal
8)	T	Aldrin	4.257	4.133	333.9E6	240.3E6	NoCal	NoCal
9)	T	Alachlor	4.374	4.063	44868872	30823749	NoCal	NoCal
10)	T	Heptachlo...	4.754	4.591	301.7E6	217.3E6	NoCal	NoCal
11)	T	Y-Chlordane	4.854	4.743	311.7E6	220.7E6	NoCal	NoCal
12)	T	A-Chlordane	4.964	4.861	297.8E6	213.3E6	NoCal	NoCal
13)	T	4,4-DDE	5.025	5.004	291.8E6	212.5E6	NoCal	NoCal
14)	T	Endo-I	5.077	4.904	279.2E6	199.1E6	NoCal	NoCal
15)	T	Dieldrin	5.274	5.126	305.2E6	218.3E6	NoCal	NoCal
16)	T	Endrin	5.466	5.372	264.8E6	186.9E6	NoCal	NoCal
17)	T	4,4-DDD	5.515	5.474	241.9E6	172.5E6	NoCal	NoCal
18)	T	Endo-II	5.650	5.544	260.2E6	186.1E6	NoCal	NoCal
19)	T	4,4-DDT	5.746	5.730	245.3E6	177.7E6	NoCal	NoCal
20)	T	Endrin Al...	5.989	5.823	203.7E6	146.4E6	NoCal	NoCal
21)	T	Methoxychlor	6.118	6.250	134.9E6	96446813	NoCal	NoCal
22)	T	End Sulf	6.302	6.037	240.2E6	174.9E6	NoCal	NoCal
23)	T	Endrin Ke...	6.486	6.400	280.3E6	200.4E6	NoCal	NoCal
25)	L8	Chlordane{1}	0.000	0.000	0	0	N.D.	N.D.
26)	L8	Chlordane{2}	0.000	0.000	0	0	N.D. d	N.D. d
27)	L8	Chlordane{3}	0.000	0.000	0	0	N.D. d	N.D.
28)	L8	Chlordane{4}	0.000	0.000	0	0	N.D. d	N.D.
29)	L8	Chlordane{5}	0.000	0.000	0	0	N.D. d	N.D. d
		Sum Chlordane			0	0	N.D.	N.D.
Average		Chlordane					0.000	0.000
30)	H	Toxaphene	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

CHECKED BY:

MAY 15 2024

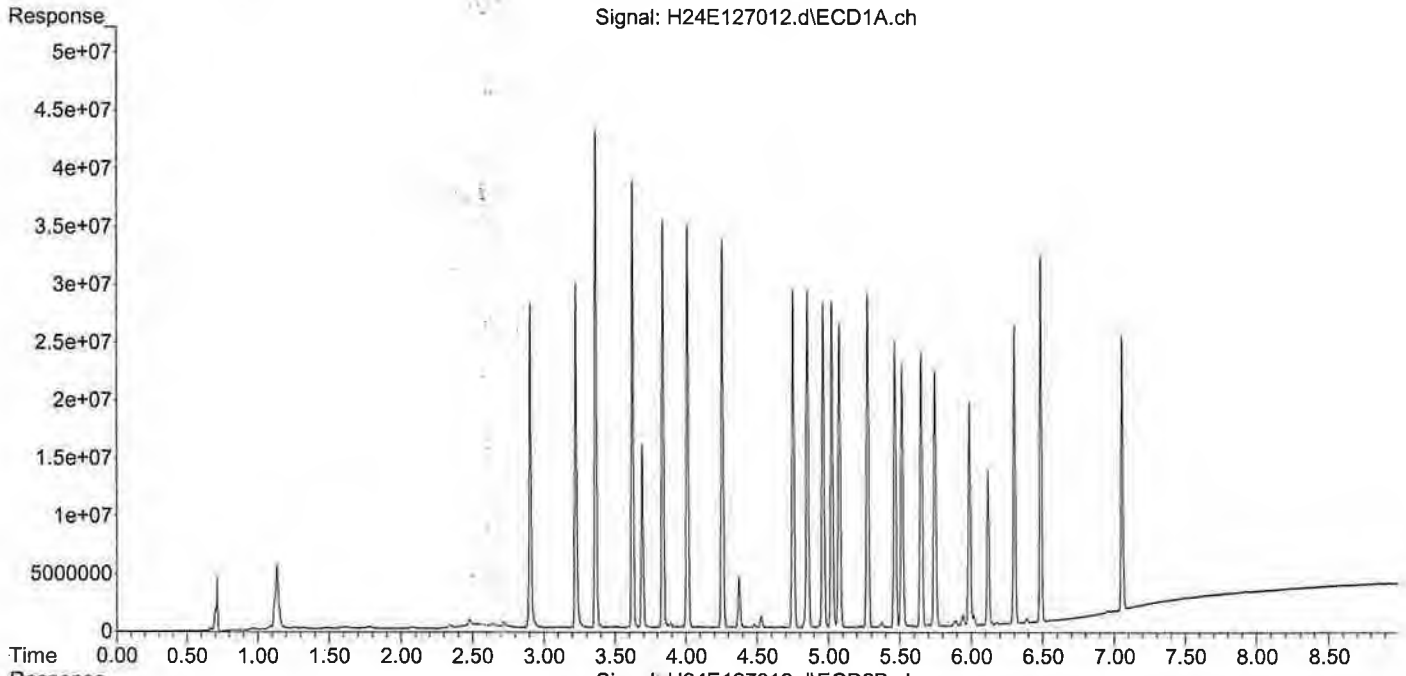
Todd Gionfriddo

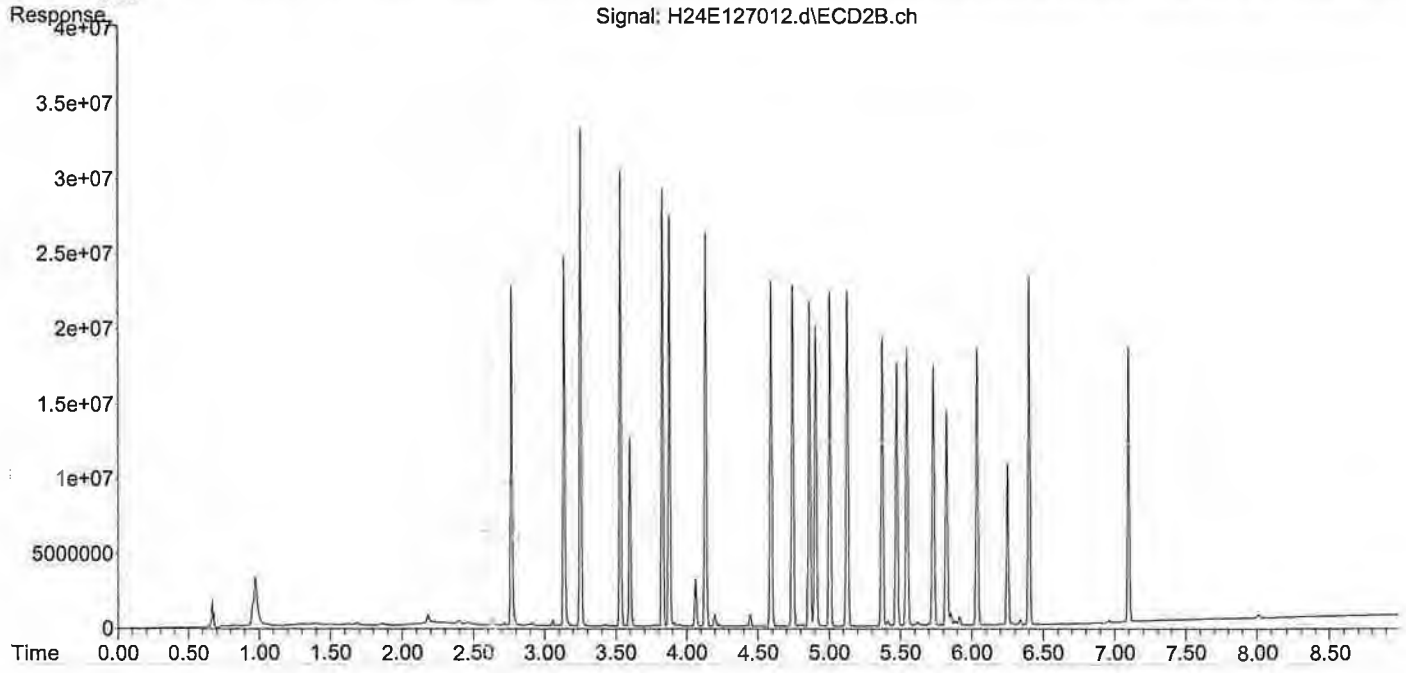
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127012.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 11:06 am
Operator : PJG
Sample : PEST 10 Inst : ECD 8
Misc : mix[s,t]
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:02:56 2024
Quant Method : C:\msdchem\1\methods\8PEST051424.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Tue May 14 13:52:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127013.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 11:18 am
Operator : PJG
Sample : PEST 20 Inst : ECD 8
Misc : mix[s,t]
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:03:00 2024
Quant Method : C:\msdchem\1\methods\8PEST051424.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Tue May 14 13:52:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
		System Monitoring Compounds						
1)	S	Tetrachlo...	2.905	2.769	513.7E6	379.5E6	NoCal	NoCal
24)	S	Decachlor...	7.054	7.097	412.7E6	292.6E6	NoCal	NoCal
		Target Compounds						
2)	T	Hexachlor...	3.224	3.137	542.9E6	411.2E6	NoCal	NoCal
3)	T	alpha-BHC	3.363	3.250	769.3E6	543.0E6	NoCal	NoCal
4)	T	gamma-BHC	3.623	3.531	700.9E6	508.0E6	NoCal	NoCal
5)	T	Beta-BHC	3.692	3.598	290.3E6	209.8E6	NoCal	NoCal
6)	T	Delta-BHC	3.837	3.829	657.4E6	490.3E6	NoCal	NoCal
7)	T	Heptachlor	4.011	3.878	669.3E6	487.7E6	NoCal	NoCal
8)	T	Aldrin	4.257	4.133	663.6E6	488.7E6	NoCal	NoCal
9)	T	Alachlor	4.375	4.063	85020122	56953707	NoCal	NoCal
10)	T	Heptachlo...	4.754	4.591	589.2E6	433.9E6	NoCal	NoCal
11)	T	Y-Chlordane	4.854	4.743	607.7E6	445.9E6	NoCal	NoCal
12)	T	A-Chlordane	4.964	4.861	584.1E6	427.4E6	NoCal	NoCal
13)	T	4,4-DDE	5.024	5.004	580.0E6	432.7E6	NoCal	NoCal
14)	T	Endo-I	5.078	4.904	543.6E6	397.7E6	NoCal	NoCal
15)	T	Dieldrin	5.274	5.126	602.2E6	441.8E6	NoCal	NoCal
16)	T	Endrin	5.466	5.372	512.9E6	370.8E6	NoCal	NoCal
17)	T	4,4-DDD	5.516	5.474	478.2E6	349.6E6	NoCal	NoCal
18)	T	Endo-II	5.650	5.545	502.9E6	367.8E6	NoCal	NoCal
19)	T	4,4-DDT	5.746	5.731	483.1E6	356.1E6	NoCal	NoCal
20)	T	Endrin Al...	5.989	5.823	394.9E6	289.9E6	NoCal	NoCal
21)	T	Methoxychlor	6.118	6.250	251.5E6	184.9E6	NoCal	NoCal
22)	T	End Sulf	6.302	6.038	463.3E6	343.0E6	NoCal	NoCal
23)	T	Endrin Ke...	6.486	6.400	545.2E6	395.9E6	NoCal	NoCal
25)	L8	Chlordane{1}	0.000	0.000	0	0	N.D.	N.D. d
26)	L8	Chlordane{2}	0.000	0.000	0	0	N.D. d	N.D. d
27)	L8	Chlordane{3}	0.000	0.000	0	0	N.D. d	N.D.
28)	L8	Chlordane{4}	0.000	0.000	0	0	N.D. d	N.D. d
29)	L8	Chlordane{5}	0.000	0.000	0	0	N.D. d	N.D. d
		Sum Chlordane			0	0	N.D.	N.D.
Average		Chlordane					0.000	0.000
30)	H	Toxaphene	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

CHECKED BY:

MAY 15 2024

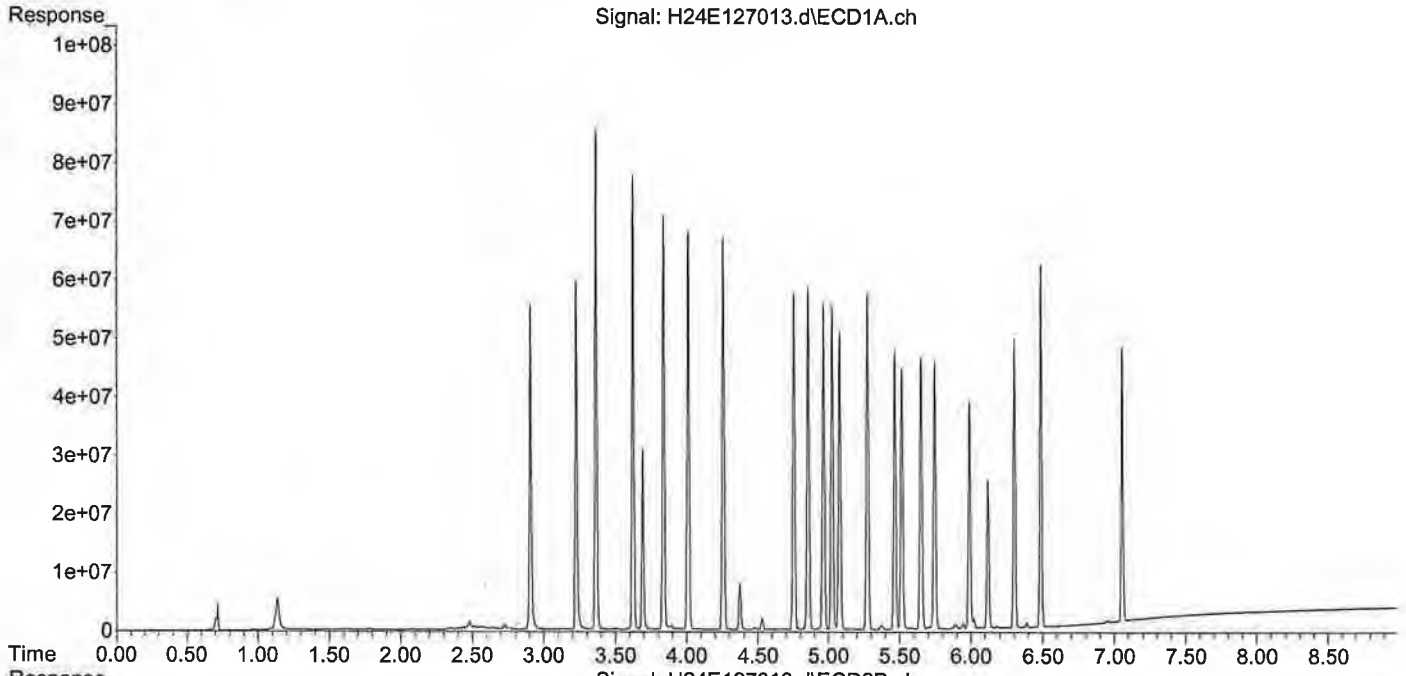
Todd Glonfridde

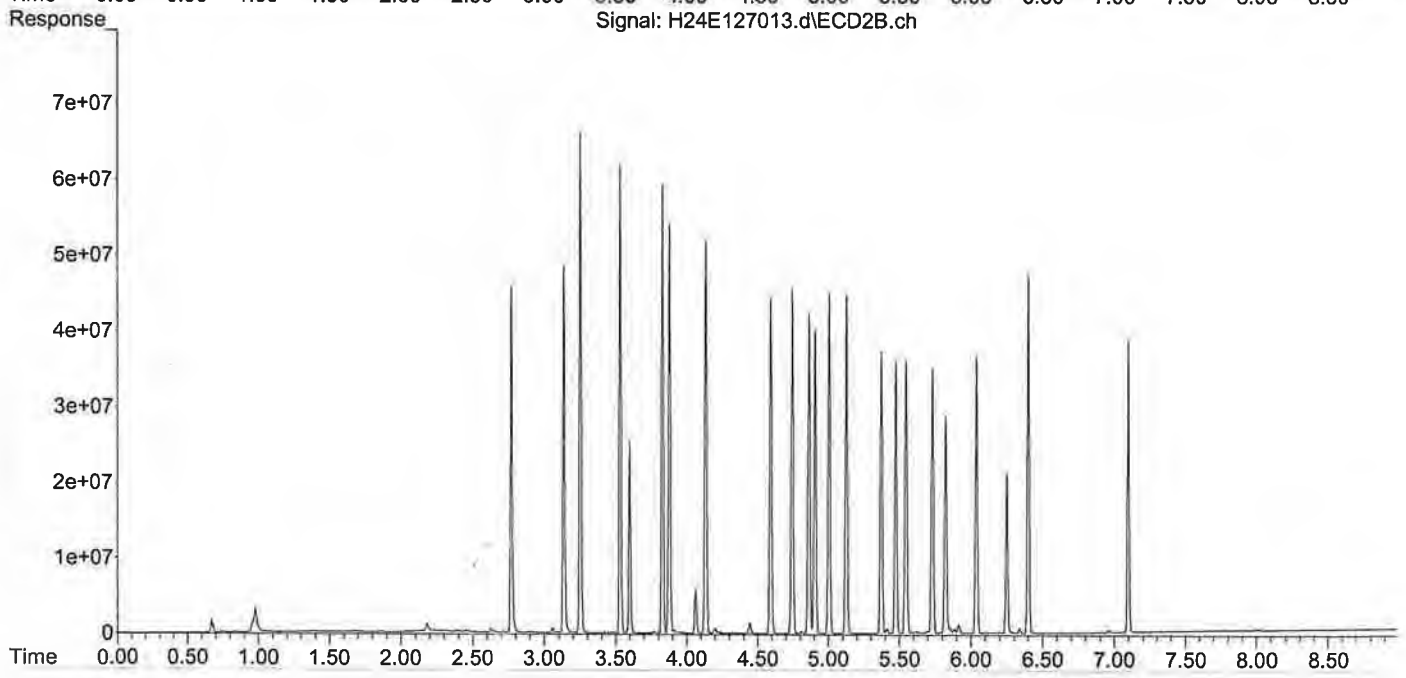
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127013.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 11:18 am
Operator : PJG
Sample : PEST 20 Inst : ECD 8
Misc : mix[s,t]
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:03:00 2024
Quant Method : C:\msdchem\1\methods\8PEST051424.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Tue May 14 13:52:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127014.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 11:29 am
Operator : PJG
Sample : PEST 50 Inst : ECD 8
Misc : mix[s,t]
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:03:04 2024
Quant Method : C:\msdchem\1\methods\8PEST051424.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Tue May 14 13:52:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
		System Monitoring Compounds						
1)	S	Tetrachlo...	2.906	2.769	1320.0E6	982.3E6	NoCal	NoCal
24)	S	Decachlor...	7.055	7.097	1029.7E6	760.7E6	NoCal	NoCal
		Target Compounds						
2)	T	Hexachlor...	3.224	3.137	1414.3E6	1071.2E6	NoCal	NoCal
3)	T	alpha-BHC	3.363	3.251	2043.2E6	1454.1E6	NoCal	NoCal
4)	T	gamma-BHC	3.623	3.531	1852.3E6	1351.4E6	NoCal	NoCal
5)	T	Beta-BHC	3.692	3.598	749.2E6	547.7E6	NoCal	NoCal
6)	T	Delta-BHC	3.837	3.829	1749.0E6	1312.7E6	NoCal	NoCal
7)	T	Heptachlor	4.011	3.878	1738.3E6	1284.9E6	NoCal	NoCal
8)	T	Aldrin	4.257	4.134	1741.6E6	1300.6E6	NoCal	NoCal
9)	T	Alachlor	4.374	4.064	206.3E6	143.2E6	NoCal	NoCal
10)	T	Heptachlo...	4.754	4.592	1526.4E6	1142.9E6	NoCal	NoCal
11)	T	Y-Chlordane	4.855	4.744	1598.3E6	1189.7E6	NoCal	NoCal
12)	T	A-Chlordane	4.964	4.862	1526.1E6	1136.3E6	NoCal	NoCal
13)	T	4,4-DDE	5.025	5.005	1539.7E6	1160.6E6	NoCal	NoCal
14)	T	Endo-I	5.078	4.905	1415.5E6	1052.2E6	NoCal	NoCal
15)	T	Dieldrin	5.274	5.127	1590.0E6	1182.1E6	NoCal	NoCal
16)	T	Endrin	5.467	5.373	1342.5E6	990.7E6	NoCal	NoCal
17)	T	4,4-DDD	5.516	5.474	1268.5E6	940.4E6	NoCal	NoCal
18)	T	Endo-II	5.650	5.545	1325.6E6	978.9E6	NoCal	NoCal
19)	T	4,4-DDT	5.747	5.731	1295.9E6	959.2E6	NoCal	NoCal
20)	T	Endrin Al...	5.990	5.823	1044.5E6	783.5E6	NoCal	NoCal
21)	T	Methoxychlor	6.118	6.250	645.6E6	484.2E6	NoCal	NoCal
22)	T	End Sulf	6.302	6.037	1219.0E6	913.8E6	NoCal	NoCal
23)	T	Endrin Ke...	6.486	6.400	1453.3E6	1070.9E6	NoCal	NoCal
25)	L8	Chlordane{1}	0.000	0.000	0	0	N.D. d	N.D. d
26)	L8	Chlordane{2}	0.000	0.000	0	0	N.D. d	N.D. d
27)	L8	Chlordane{3}	0.000	0.000	0	0	N.D. d	N.D.
28)	L8	Chlordane{4}	0.000	0.000	0	0	N.D. d	N.D. d
29)	L8	Chlordane{5}	0.000	0.000	0	0	N.D. d	N.D. d
		Sum Chlordane			0	0	N.D.	N.D.
Average		Chlordane					0.000	0.000
30)	H	Toxaphene	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

CHECKED BY:

MAY 15 2024

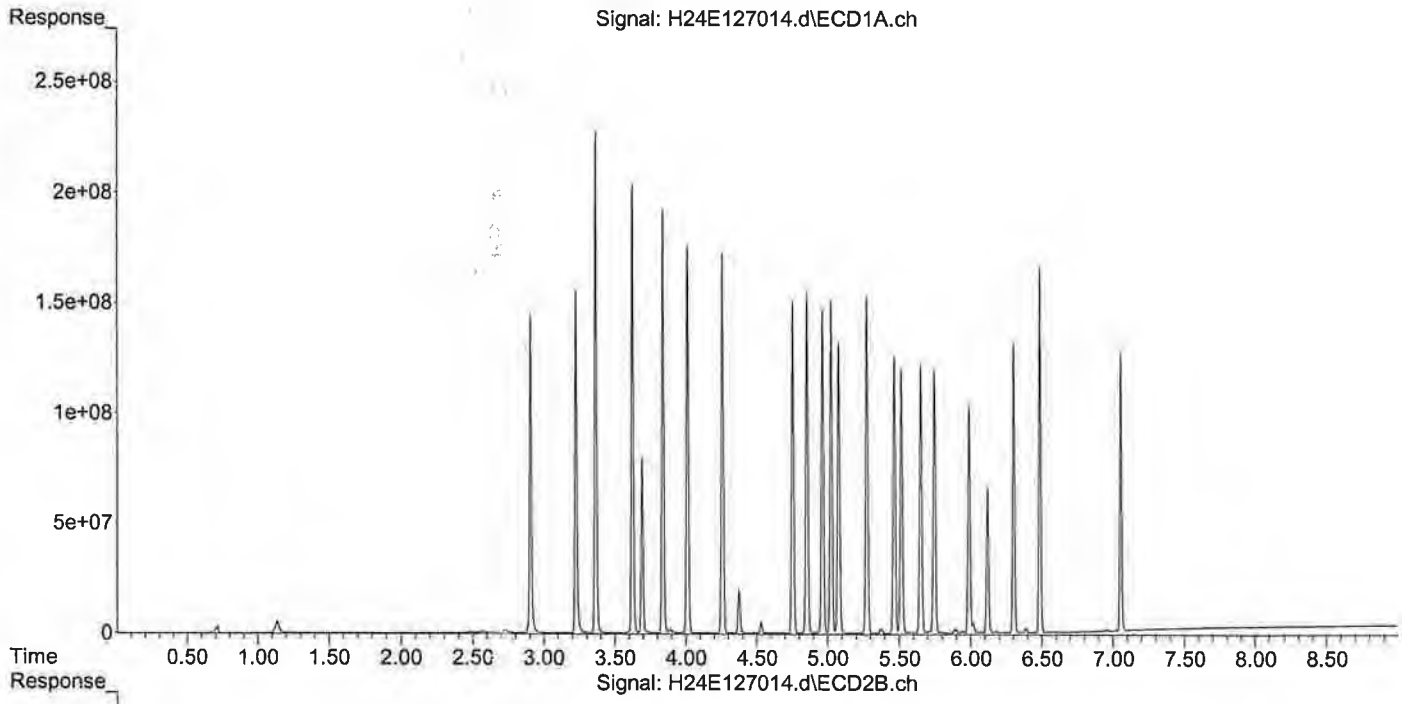
Todd Glon[illegible]

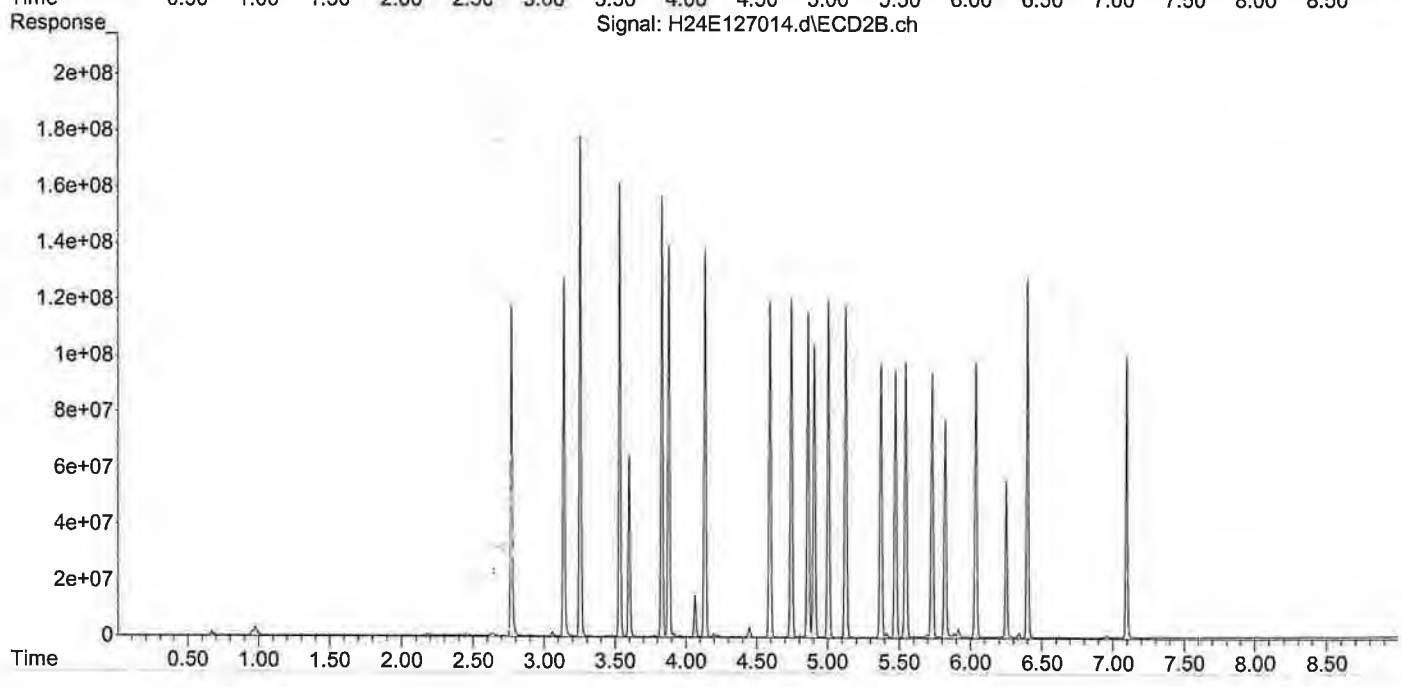
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127014.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 11:29 am
Operator : PJG
Sample : PEST 50 Inst : ECD 8
Misc : mix[s,t]
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:03:04 2024
Quant Method : C:\msdchem\1\methods\8PEST051424.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Tue May 14 13:52:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127015.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 11:41 am
Operator : PJG
Sample : PEST 100 Inst : ECD 8
Misc : mix[s,t]
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:03:08 2024
Quant Method : C:\msdchem\1\methods\8PEST051424.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Tue May 14 13:52:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
		System Monitoring Compounds						
1)	S	Tetrachlo...	2.906	2.769	2872.3E6	2132.8E6	NoCal	NoCal
24)	S	Decachlor...	7.055	7.098	2235.9E6	1691.6E6	NoCal	NoCal
		Target Compounds						
2)	T	Hexachlor...	3.224	3.137	3094.3E6	2330.1E6	NoCal	NoCal
3)	T	alpha-BHC	3.364	3.251	4480.9E6	3232.6E6	NoCal	NoCal
4)	T	gamma-BHC	3.623	3.531	4061.0E6	2969.5E6	NoCal	NoCal
5)	T	Beta-BHC	3.692	3.598	1606.9E6	1178.6E6	NoCal	NoCal
6)	T	Delta-BHC	3.838	3.830	3881.6E6	2885.2E6	NoCal	NoCal
7)	T	Heptachlor	4.011	3.879	3776.9E6	2805.2E6	NoCal	NoCal
8)	T	Aldrin	4.258	4.134	3770.2E6	2830.5E6	NoCal	NoCal
9)	T	Alachlor	4.375	4.064	427.6E6	299.7E6	NoCal	NoCal
10)	T	Heptachlo...	4.755	4.592	3286.5E6	2457.0E6	NoCal	NoCal
11)	T	Y-Chlordane	4.855	4.744	3482.2E6	2606.8E6	NoCal	NoCal
12)	T	A-Chlordane	4.964	4.862	3304.8E6	2480.6E6	NoCal	NoCal
13)	T	4,4-DDE	5.025	5.005	3372.4E6	2552.8E6	NoCal	NoCal
14)	T	Endo-I	5.078	4.905	3040.0E6	2281.8E6	NoCal	NoCal
15)	T	Dieldrin	5.275	5.127	3451.7E6	2591.4E6	NoCal	NoCal
16)	T	Endrin	5.467	5.372	2926.4E6	2183.7E6	NoCal	NoCal
17)	T	4,4-DDD	5.516	5.474	2779.0E6	2084.0E6	NoCal	NoCal
18)	T	Endo-II	5.650	5.546	2876.0E6	2150.2E6	NoCal	NoCal
19)	T	4,4-DDT	5.746	5.731	2915.1E6	2168.6E6	NoCal	NoCal
20)	T	Endrin Al...	5.989	5.823	2027.6E6	1525.8E6	NoCal	NoCal
21)	T	Methoxychlor	6.119	6.250	1421.8E6	1076.5E6	NoCal	NoCal
22)	T	End Sulf	6.302	6.038	2665.0E6	2017.3E6	NoCal	NoCal
23)	T	Endrin Ke...	6.487	6.401	3208.5E6	2377.1E6	NoCal	NoCal
25)	L8	Chlordane{1}	0.000	0.000	0	0	N.D. d	N.D. d
26)	L8	Chlordane{2}	0.000	0.000	0	0	N.D. d	N.D. d
27)	L8	Chlordane{3}	0.000	0.000	0	0	N.D. d	N.D.
28)	L8	Chlordane{4}	0.000	0.000	0	0	N.D. d	N.D. d
29)	L8	Chlordane{5}	0.000	0.000	0	0	N.D. d	N.D. d
		Sum Chlordane			0	0	N.D.	N.D.
Average		Chlordane					0.000	0.000
30)	H	Toxaphene	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

CHECKED BY:

MAY 15 2024

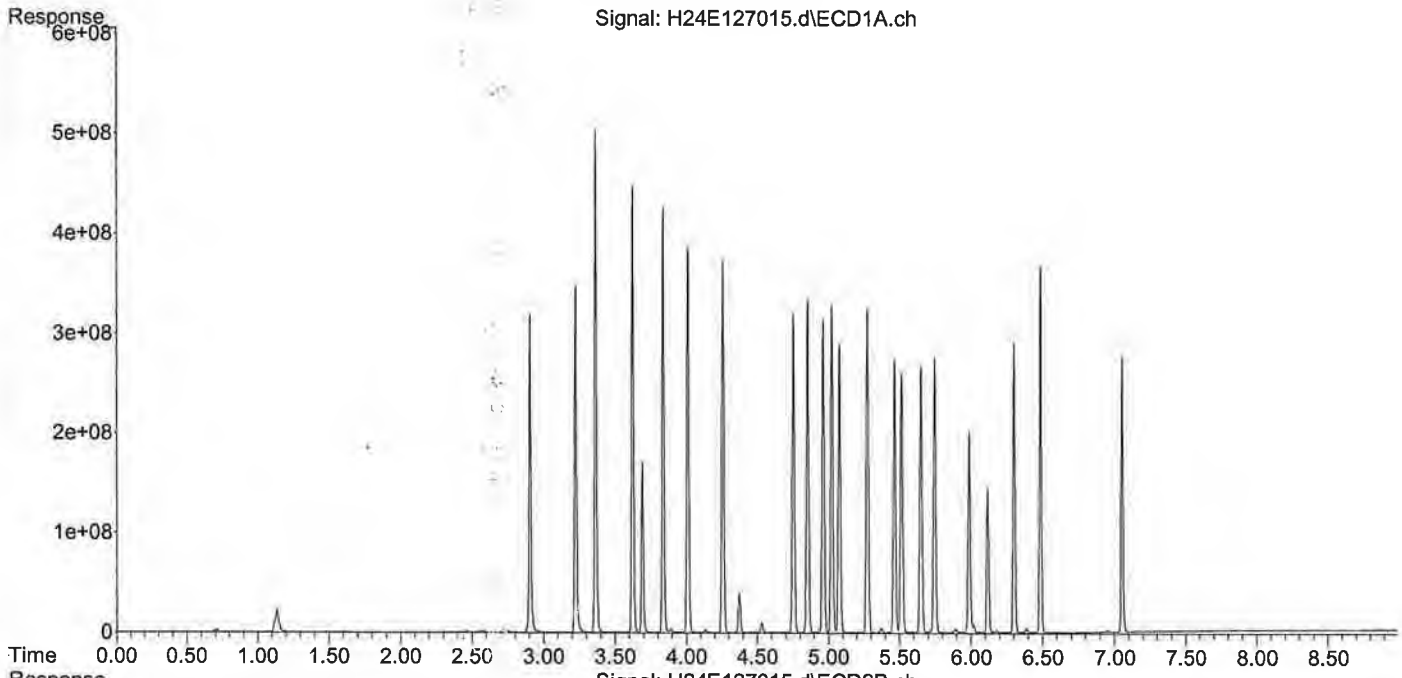
Todd Gionfriddo

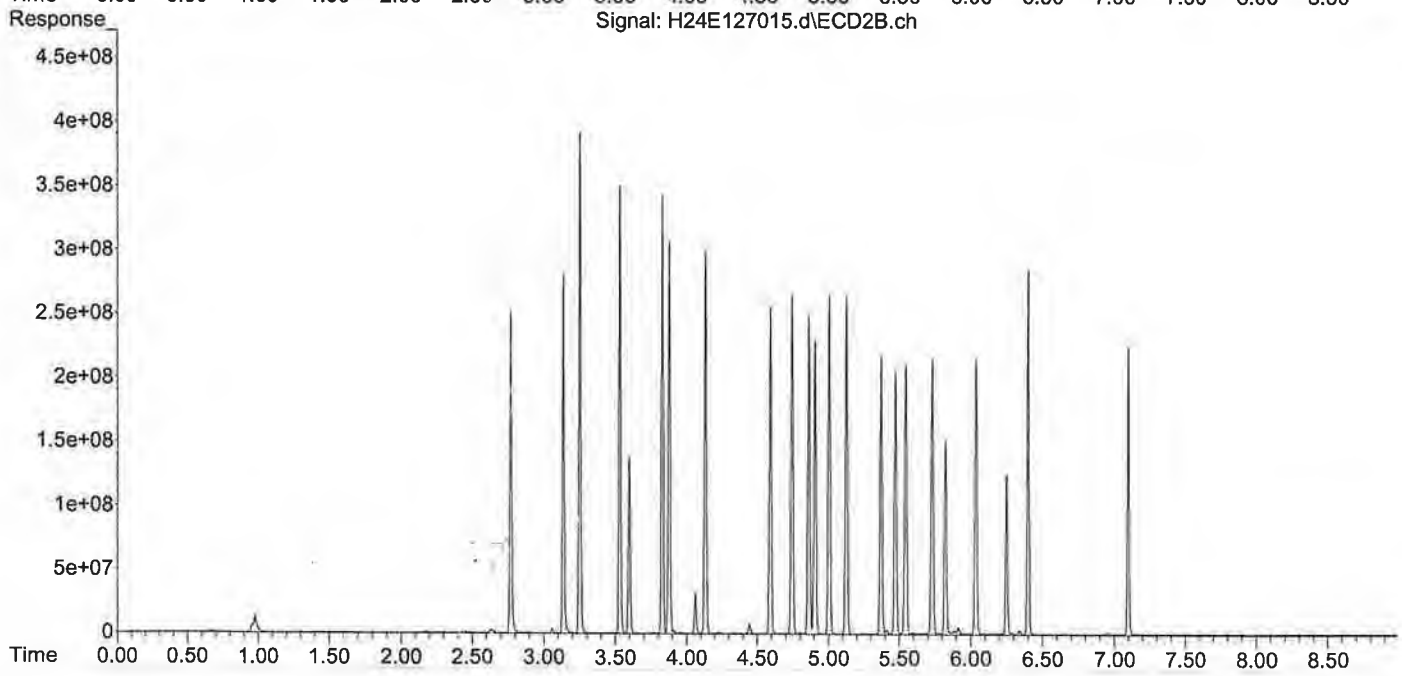
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127015.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 11:41 am
Operator : PJG
Sample : PEST 100 Inst : ECD 8
Misc : mix[s,t]
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:03:08 2024
Quant Method : C:\msdchem\1\methods\8PEST051424.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Tue May 14 13:52:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127016.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 11:53 am
Operator : PJG
Sample : PEST 200 Inst : ECD 8
Misc : mix[s,t]
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:03:12 2024
Quant Method : C:\msdchem\1\methods\8PEST051424.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Tue May 14 13:52:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
		System Monitoring Compounds						
1)	S	Tetrachlo...	2.906	2.769	5725.2E6	4225.6E6	NoCal	NoCal
24)	S	Decachlor...	7.055	7.098	4471.6E6	3406.0E6	NoCal	NoCal
		Target Compounds						
2)	T	Hexachlor...	3.225	3.137	6253.8E6	4676.2E6	NoCal	NoCal
3)	T	alpha-BHC	3.364	3.251	9157.6E6	6576.6E6	NoCal	NoCal
4)	T	gamma-BHC	3.623	3.532	8231.3E6	5995.2E6	NoCal	NoCal
5)	T	Beta-BHC	3.692	3.598	3169.4E6	2346.4E6	NoCal	NoCal
6)	T	Delta-BHC	3.838	3.830	8006.0E6	5927.7E6	NoCal	NoCal
7)	T	Heptachlor	4.011	3.879	7552.8E6	5613.2E6	NoCal	NoCal
8)	T	Aldrin	4.258	4.134	7541.1E6	5651.0E6	NoCal	NoCal
9)	T	Alachlor	4.375	4.063	819.5E6	577.8E6	NoCal	NoCal
10)	T	Heptachlo...	4.755	4.592	6563.9E6	4942.1E6	NoCal	NoCal
11)	T	Y-Chlordane	4.856	4.744	6982.8E6	5235.0E6	NoCal	NoCal
12)	T	A-Chlordane	4.965	4.862	6646.3E6	4969.0E6	NoCal	NoCal
13)	T	4,4-DDE	5.026	5.005	6766.4E6	5112.1E6	NoCal	NoCal
14)	T	Endo-I	5.079	4.905	6065.0E6	4558.3E6	NoCal	NoCal
15)	T	Dieldrin	5.275	5.127	6915.9E6	5203.8E6	NoCal	NoCal
16)	T	Endrin	5.467	5.372	5992.1E6	4490.8E6	NoCal	NoCal
17)	T	4,4-DDD	5.516	5.474	5606.7E6	4213.2E6	NoCal	NoCal
18)	T	Endo-II	5.651	5.545	5762.4E6	4323.5E6	NoCal	NoCal
19)	T	4,4-DDT	5.747	5.730	5860.2E6	4385.6E6	NoCal	NoCal
20)	T	Endrin Al...	5.990	5.823	4501.2E6	3403.6E6	NoCal	NoCal
21)	T	Methoxychlor	6.118	6.250	2826.8E6	2162.1E6	NoCal	NoCal
22)	T	End Sulf	6.303	6.037	5385.2E6	4091.9E6	NoCal	NoCal
23)	T	Endrin Ke...	6.487	6.400	6526.2E6	4830.9E6	NoCal	NoCal
25)	L8	Chlordane{1}	0.000	0.000	0	0	N.D. d	N.D. d
26)	L8	Chlordane{2}	0.000	0.000	0	0	N.D. d	N.D. d
27)	L8	Chlordane{3}	0.000	0.000	0	0	N.D. d	N.D.
28)	L8	Chlordane{4}	0.000	0.000	0	0	N.D. d	N.D. d
29)	L8	Chlordane{5}	0.000	0.000	0	0	N.D. d	N.D. d
		Sum Chlordane			0	0	N.D.	N.D.
Average		Chlordane					0.000	0.000
30)	H	Toxaphene	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

CHECKED BY:

MAY 15 2024

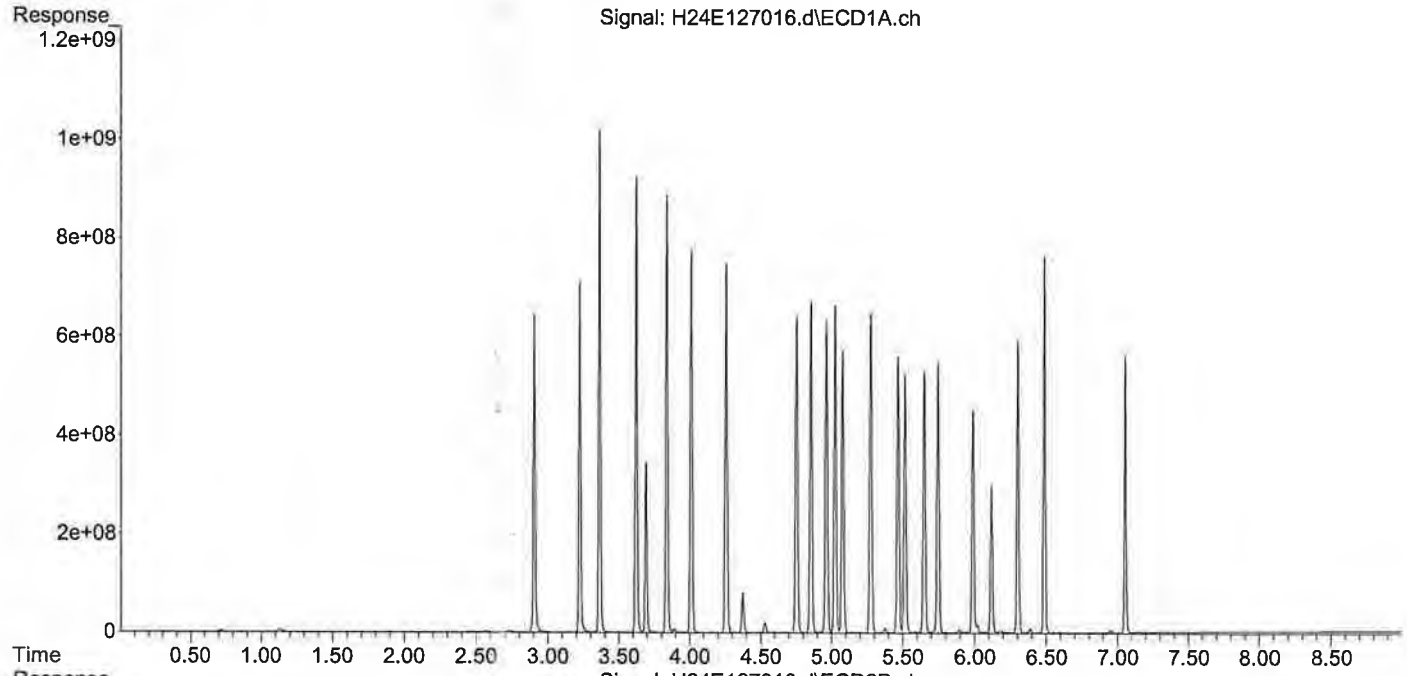
Todd Glonfridde

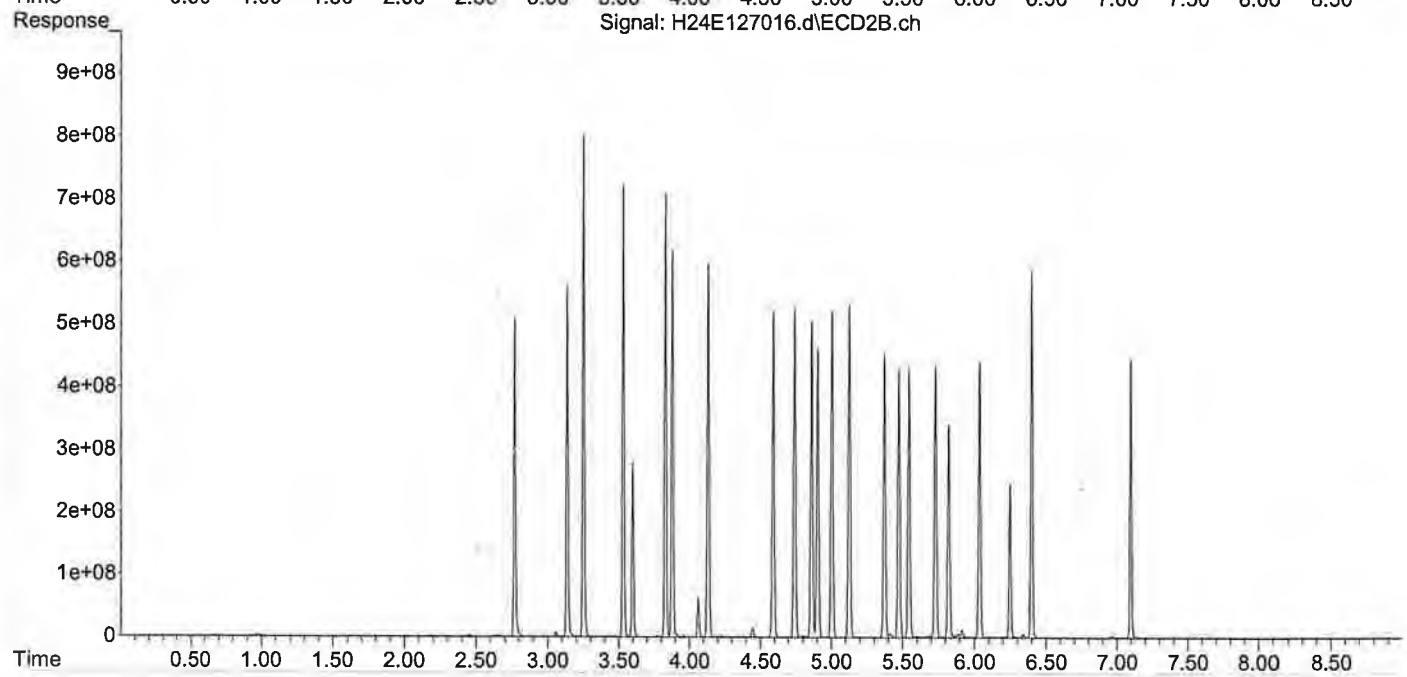
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127016.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 11:53 am
Operator : PJG
Sample : PEST 200 Inst : ECD 8
Misc : mix[s,t]
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:03:12 2024
Quant Method : C:\msdchem\1\methods\8PEST051424.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Tue May 14 13:52:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127018.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 12:17 pm
Operator : PJG
Sample : PEST ICV Inst : ECD 8
Misc : mix[s,t]
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:07:07 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
		System Monitoring Compounds						
1)	S	Tetrachlo...	2.934f	0.000	3599461	0	0.131	N.D. #
24)	S	Decachlor...	7.055	7.097	12620882	3504189	0.569	0.221 #
		Target Compounds						
2)	T	Hexachlor...	3.224	3.137	3061.0E6	2363.3E6	101.564	106.461
3)	T	alpha-BHC	3.364	3.251	4774.3E6	3413.9E6	116.589	119.349
4)	T	gamma-BHC	3.623	3.531	4202.4E6	3077.1E6	111.890	115.259
5)	T	Beta-BHC	3.692	3.598	1671.7E6	1228.3E6	104.281	108.540
6)	T	Delta-BHC	3.838	3.829	4075.4E6	3062.2E6	115.420	119.463
7)	T	Heptachlor	4.011	3.878	3923.4E6	2917.4E6	108.962	113.461
8)	T	Aldrin	4.258	4.134	3810.5E6	2861.3E6	108.216	111.516
9)	T	Alachlor	4.374	4.063	439.5E6	310.0E6	103.481	105.591
10)	T	Heptachlo...	4.755	4.592	3375.3E6	2545.3E6	106.559	110.392
11)	T	Y-Chlordane	4.855	4.744	3559.2E6	2669.4E6	104.487	112.142
12)	T	A-Chlordane	4.964	4.862	3426.3E6	2554.5E6	108.325	111.551
13)	T	4,4-DDE	5.025	5.005	3438.3E6	2606.1E6	110.784	114.076
14)	T	Endo-I	5.078	4.905	3153.7E6	2361.5E6	107.857	111.469
15)	T	Dieldrin	5.275	5.127	3576.4E6	2687.2E6	108.092	113.775
16)	T	Endrin	5.467	5.372	3043.8E6	2271.3E6	109.465	113.389
17)	T	4,4-DDD	5.516	5.474	2882.1E6	2155.1E6	112.510	115.583
18)	T	Endo-II	5.650	5.546	3002.6E6	2242.1E6	109.041	112.294
19)	T	4,4-DDT	5.747	5.731	2962.5E6	2218.0E6	111.055	114.731
20)	T	Endrin Al...	5.990	5.823	2226.6E6	1677.2E6	106.032	109.178
21)	T	Methoxychlor	6.119	6.250	1462.0E6	1111.4E6	104.431	107.228
22)	T	End Sulf	6.303	6.038	2781.8E6	2112.1E6	108.769	112.250
23)	T	Endrin Ke...	6.487	6.400	3230.4E6	2392.2E6	106.401	109.605
25)	L8	Chlordane{1}	0.000	0.000	0	0	N.D. d	N.D. d
26)	L8	Chlordane{2}	0.000	0.000	0	0	N.D. d	N.D. d
27)	L8	Chlordane{3}	0.000	0.000	0	0	N.D. d	N.D.
28)	L8	Chlordane{4}	0.000	0.000	0	0	N.D. d	N.D. d
29)	L8	Chlordane{5}	0.000	0.000	0	0	N.D. d	N.D. d
		Sum Chlordane			0	0	N.D.	N.D.
Average		Chlordane					0.000	0.000
30)	H	Toxaphene	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

CHECKED BY:

MAY 15 2024

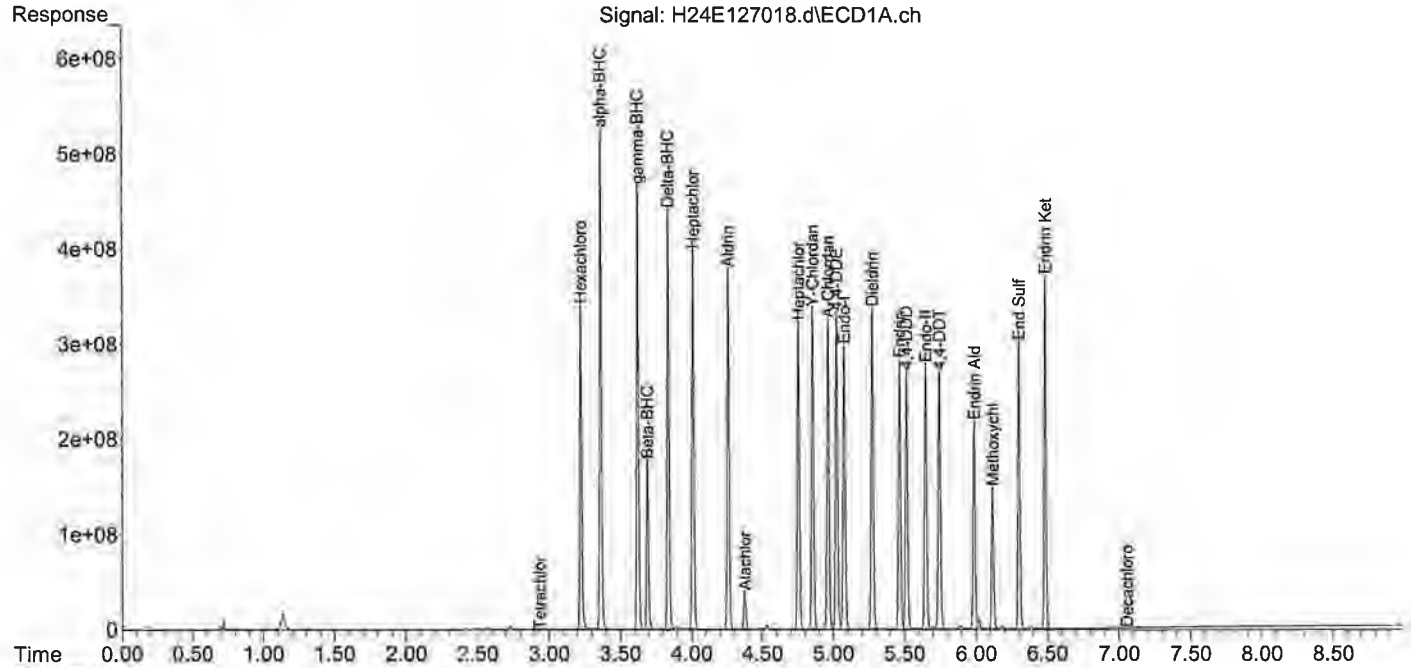
Todd Gianfrid[illegible]

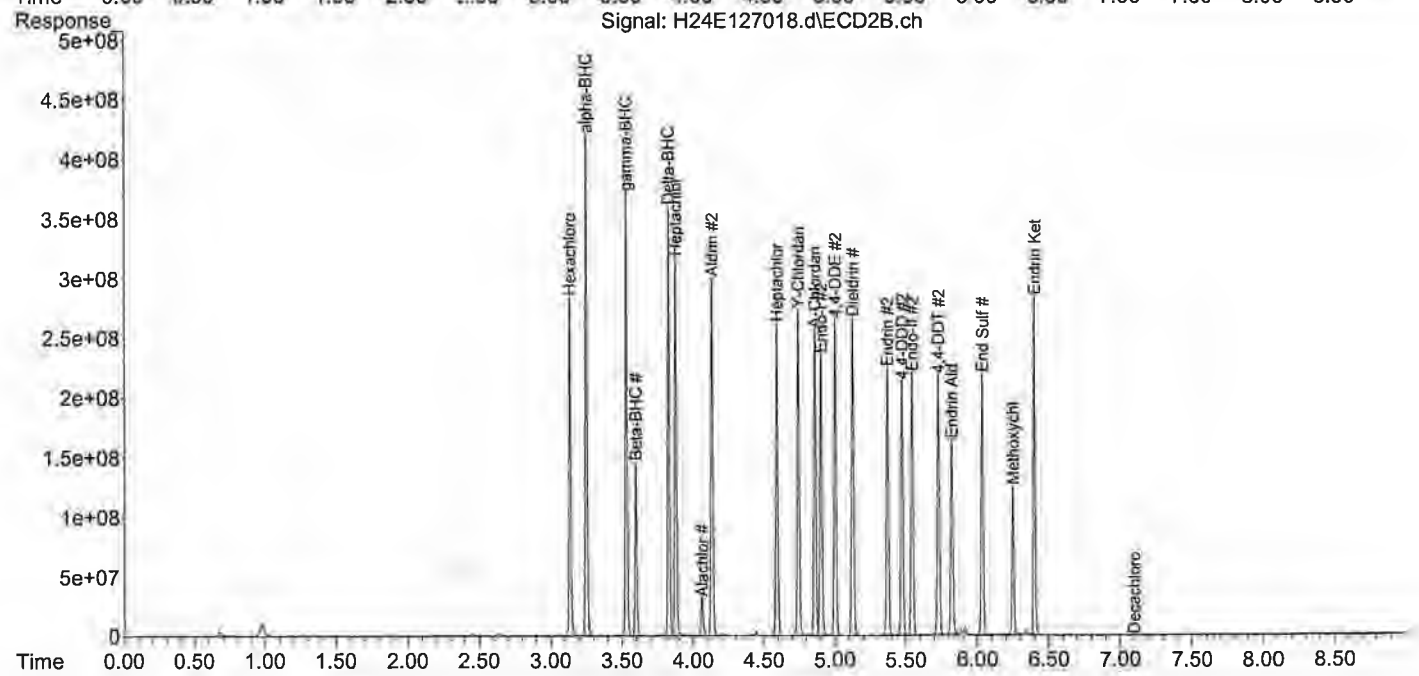
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127018.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 12:17 pm
Operator : PJG
Sample : PEST ICV Inst : ECD 8
Misc : mix[s,t]
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:07:07 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\030724\
Data File : H24E067019.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Mar 2024 1:43 pm
Operator : PJG
Sample : CHLOR 10 Inst : ECD 8
Misc : mix[18]
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: Apr 09 14:35:03 2024
Quant Method : C:\msdchem\1\methods\8PEST030724.M
Quant Title : PEST 03/27/24 CHLOR 03/27/24 TOX 03/27/24 2400412
QLast Update : Thu Feb 29 13:55:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
		System Monitoring Compounds						
1)	S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
24)	S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)	T	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
3)	T	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	T	gamma-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	T	Beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6)	T	Delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	T	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
8)	T	Aldrin	0.000	0.000	0	0	N.D.	N.D.
9)	T	Alachlor	0.000	0.000	0	0	N.D. d	N.D.
10)	T	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
11)	T	Y-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
12)	T	A-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
13)	T	4,4-DDE	0.000	0.000	0	0	N.D. d	N.D. d
14)	T	Endo-I	0.000	0.000	0	0	N.D. d	N.D. d
15)	T	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
16)	T	Endrin	0.000	0.000	0	0	N.D.	N.D. d
17)	T	4,4-DDD	0.000	0.000	0	0	N.D. d	N.D. d
18)	T	Endo-II	0.000	0.000	0	0	N.D. d	N.D. d
19)	T	4,4-DDT	0.000	0.000	0	0	N.D. d	N.D. d
20)	T	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
21)	T	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
22)	T	End Sulf	0.000	0.000	0	0	N.D. d	N.D. d
23)	T	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
25)	L8	Chlordane{1}	4.028	3.841	13121769	10132751	NoCal	NoCal
26)	L8	Chlordane{2}	4.093	3.957	17705392	13101700	NoCal	NoCal
27)	L8	Chlordane{3}	4.455	4.339	16443822	12369193	NoCal	NoCal
28)	L8	Chlordane{4}	4.944	4.907	51839037	38969053	NoCal	NoCal
29)	L8	Chlordane{5}	5.689	4.949	12781044	28323852	NoCal	NoCal
		Sum Chlordane			0	0	N.D.	N.D.
		Average Chlordane					0.000	0.000
30)	H	Toxaphene	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

CHECKED BY:

APR 09 2024

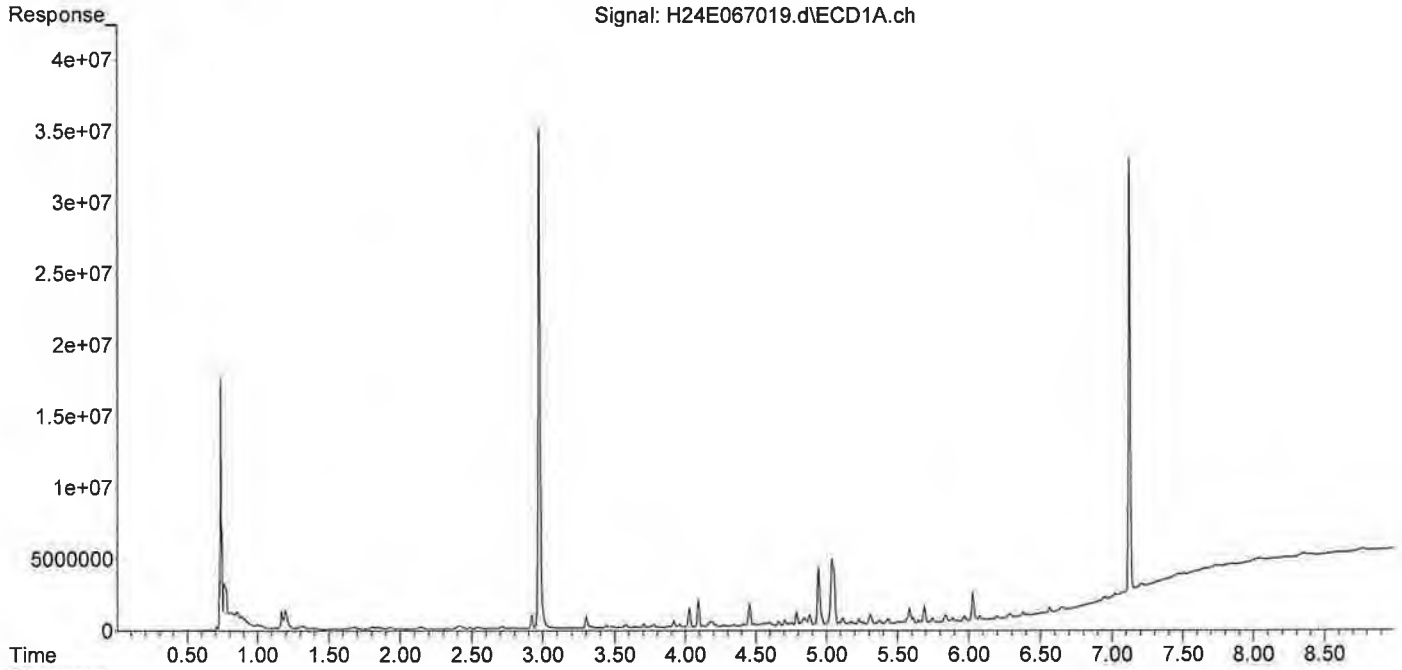
Todd Glonfridde

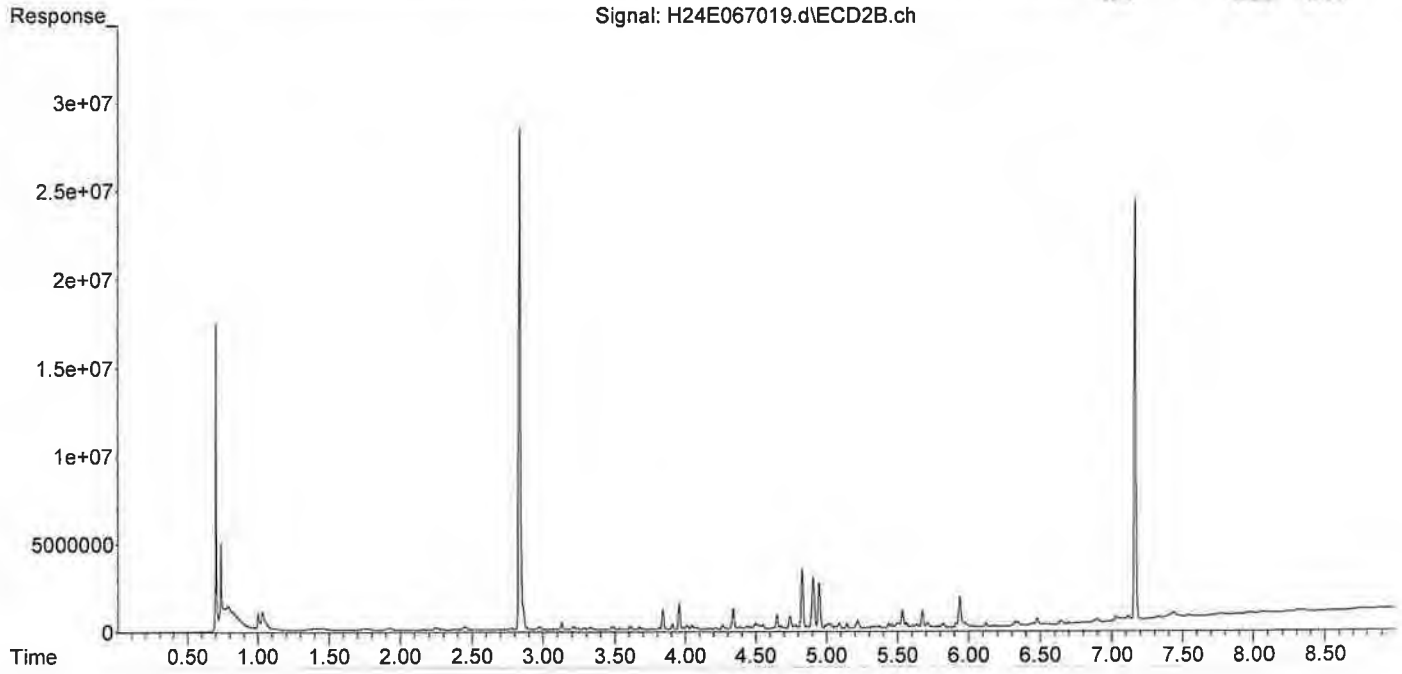
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\030724\
Data File : H24E067019.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Mar 2024 1:43 pm
Operator : PJG
Sample : CHLOR 10 Inst : ECD 8
Misc : mix[18]
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: Apr 09 14:35:03 2024
Quant Method : C:\msdchem\1\methods\8PEST030724.M
Quant Title : PEST 03/27/24 CHLOR 03/27/24 TOX 03/27/24 2400412
QLast Update : Thu Feb 29 13:55:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\030724\
Data File : H24E067020.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Mar 2024 1:54 pm
Operator : PJG
Sample : CHLOR 20 Inst : ECD 8
Misc : mix[18]
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: Apr 09 14:35:07 2024
Quant Method : C:\msdchem\1\methods\8PEST030724.M
Quant Title : PEST 03/27/24 CHLOR 03/27/24 TOX 03/27/24 2400412
QLast Update : Thu Feb 29 13:55:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
		System Monitoring Compounds						
1)	S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
24)	S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)	T	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D.
3)	T	alpha-BHC	0.000	0.000	0	0	N.D.	N.D. d
4)	T	gamma-BHC	0.000	0.000	0	0	N.D.	N.D.
5)	T	Beta-BHC	0.000	0.000	0	0	N.D.	N.D. d
6)	T	Delta-BHC	0.000	0.000	0	0	N.D. d	N.D.
7)	T	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
8)	T	Aldrin	0.000	0.000	0	0	N.D.	N.D.
9)	T	Alachlor	0.000	0.000	0	0	N.D. d	N.D.
10)	T	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
11)	T	Y-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
12)	T	A-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
13)	T	4,4-DDE	0.000	0.000	0	0	N.D. d	N.D. d
14)	T	Endo-I	0.000	0.000	0	0	N.D. d	N.D. d
15)	T	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
16)	T	Endrin	0.000	0.000	0	0	N.D. d	N.D.
17)	T	4,4-DDD	0.000	0.000	0	0	N.D.	N.D.
18)	T	Endo-II	0.000	0.000	0	0	N.D. d	N.D.
19)	T	4,4-DDT	0.000	0.000	0	0	N.D. d	N.D.
20)	T	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
21)	T	Methoxychlor	0.000	0.000	0	0	N.D.	N.D. d
22)	T	End Sulf	0.000	0.000	0	0	N.D. d	N.D.
23)	T	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
25)	L8	Chlordane{1}	4.028	3.841	23961444	17643507	NoCal	NoCal
26)	L8	Chlordane{2}	4.094	3.957	32543153	23566544	NoCal	NoCal
27)	L8	Chlordane{3}	4.455	4.339	30738614	20452476	NoCal	NoCal
28)	L8	Chlordane{4}	4.944	4.906	93370752	71778508	NoCal	NoCal
29)	L8	Chlordane{5}	5.689	4.948	23737732	49930179	NoCal	NoCal
		Sum Chlordane			0	0	N.D.	N.D.
		Average Chlordane					0.000	0.000
30)	H	Toxaphene	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

CHECKED BY:

APR 09 2024

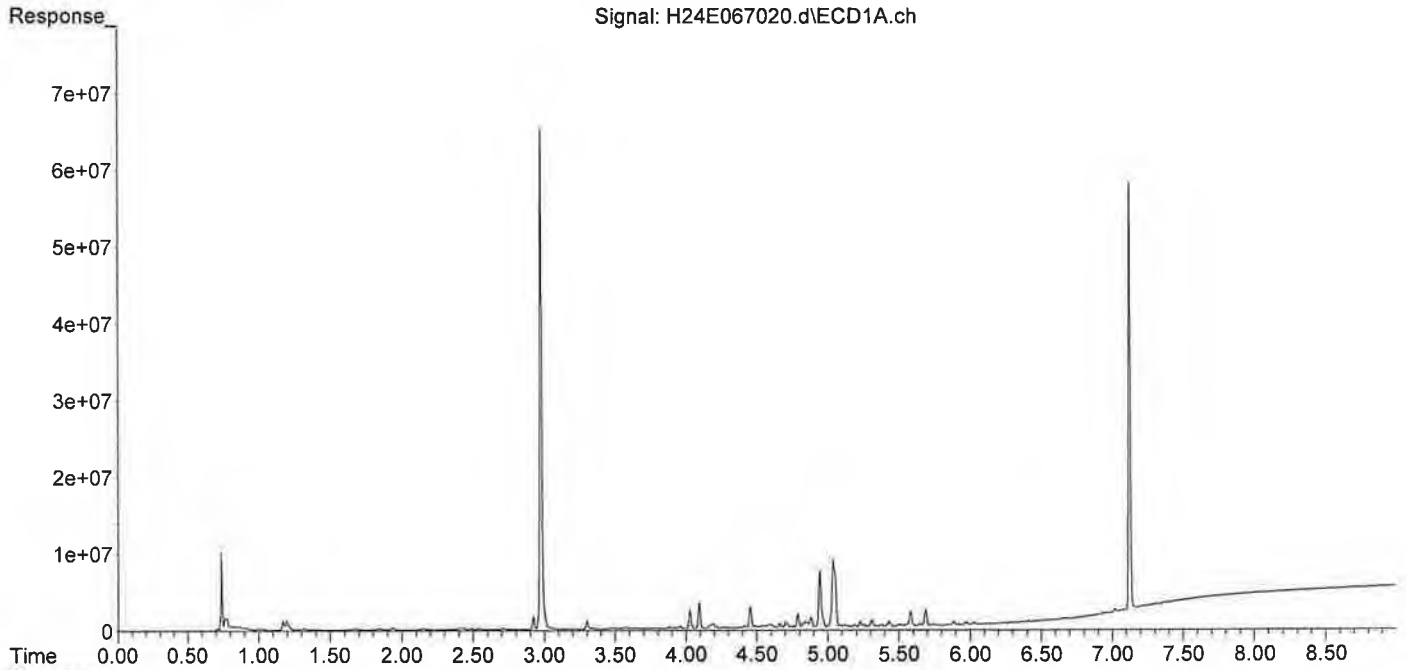
Todd Gionfriddo

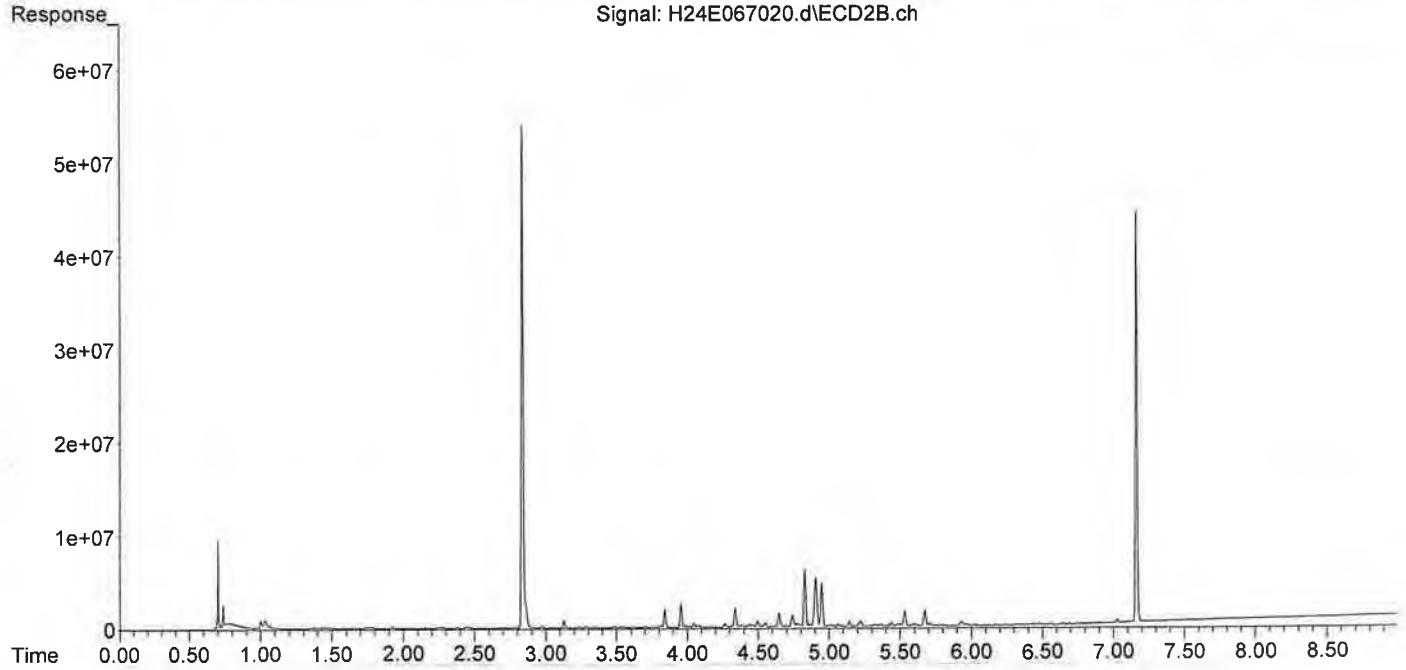
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\030724\
Data File : H24E067020.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Mar 2024 1:54 pm
Operator : PJG
Sample : CHLOR 20 Inst : ECD 8
Misc : mix[18]
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: Apr 09 14:35:07 2024
Quant Method : C:\msdchem\1\methods\8PEST030724.M
Quant Title : PEST 03/27/24 CHLOR 03/27/24 TOX 03/27/24 2400412
QLast Update : Thu Feb 29 13:55:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\030724\
Data File : H24E067021.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Mar 2024 2:06 pm
Operator : PJG
Sample : CHLOR 50 Inst : ECD 8
Misc : mix[18]
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: Apr 09 14:35:11 2024
Quant Method : C:\msdchem\1\methods\8PEST030724.M
Quant Title : PEST 03/27/24 CHLOR 03/27/24 TOX 03/27/24 2400412
QLast Update : Thu Feb 29 13:55:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
		System Monitoring Compounds						
1)	S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
24)	S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)	T	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D.
3)	T	alpha-BHC	0.000	0.000	0	0	N.D.	N.D. d
4)	T	gamma-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	T	Beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6)	T	Delta-BHC	0.000	0.000	0	0	N.D. d	N.D.
7)	T	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
8)	T	Aldrin	0.000	0.000	0	0	N.D. d	N.D.
9)	T	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
10)	T	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
11)	T	Y-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
12)	T	A-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
13)	T	4,4-DDE	0.000	0.000	0	0	N.D. d	N.D. d
14)	T	Endo-I	0.000	0.000	0	0	N.D. d	N.D. d
15)	T	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
16)	T	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
17)	T	4,4-DDD	0.000	0.000	0	0	N.D.	N.D. d
18)	T	Endo-II	0.000	0.000	0	0	N.D. d	N.D. d
19)	T	4,4-DDT	0.000	0.000	0	0	N.D. d	N.D.
20)	T	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
21)	T	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
22)	T	End Sulf	0.000	0.000	0	0	N.D. d	N.D. d
23)	T	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
25)	L8	Chlordane{1}	4.028	3.841	59808750	43521145	NoCal	NoCal
26)	L8	Chlordane{2}	4.093	3.957	82729155	59722469	NoCal	NoCal
27)	L8	Chlordane{3}	4.455	4.339	72789409	48249873	NoCal	NoCal
28)	L8	Chlordane{4}	4.944	4.907	235.9E6	180.4E6	NoCal	NoCal
29)	L8	Chlordane{5}	5.689	4.949	61101768	124.6E6	NoCal	NoCal
		Sum Chlordane			0	0	N.D.	N.D.
		Average Chlordane					0.000	0.000
30)	H	Toxaphene	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

CHECKED BY:

APR 09 2024

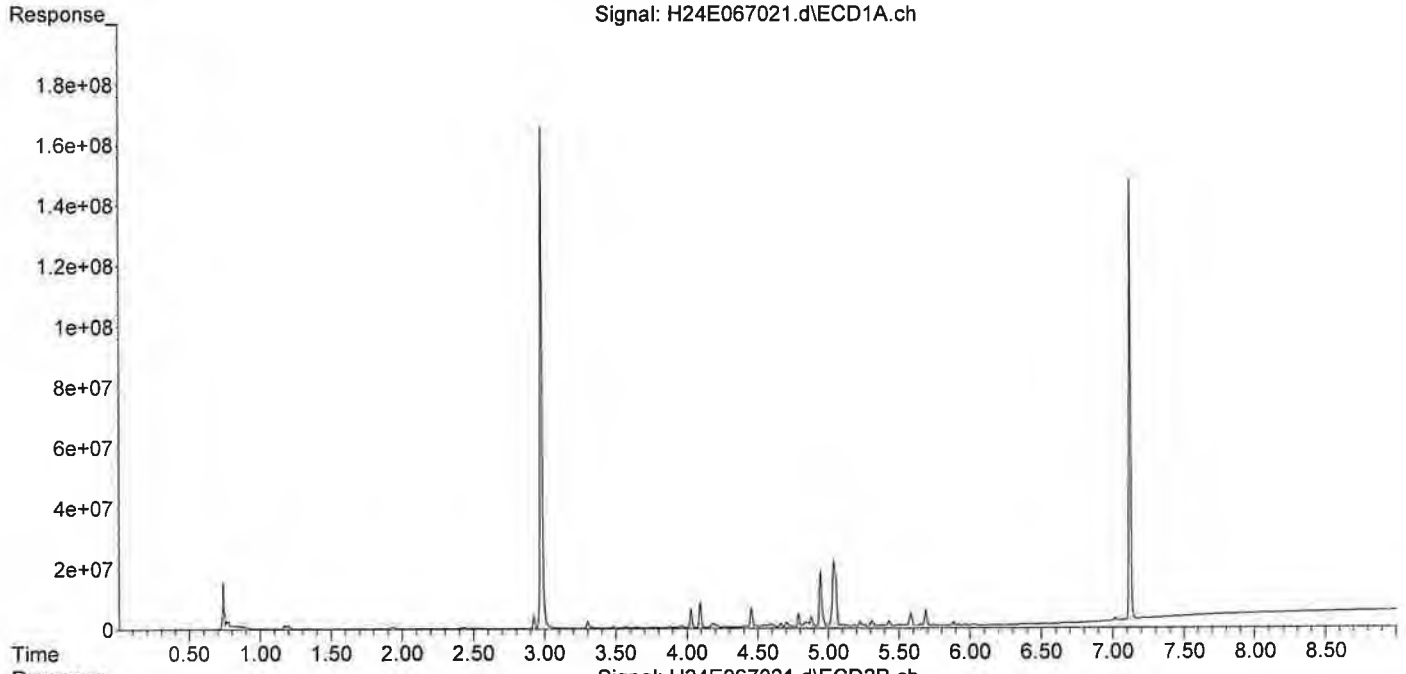
Todd Gionfriddo

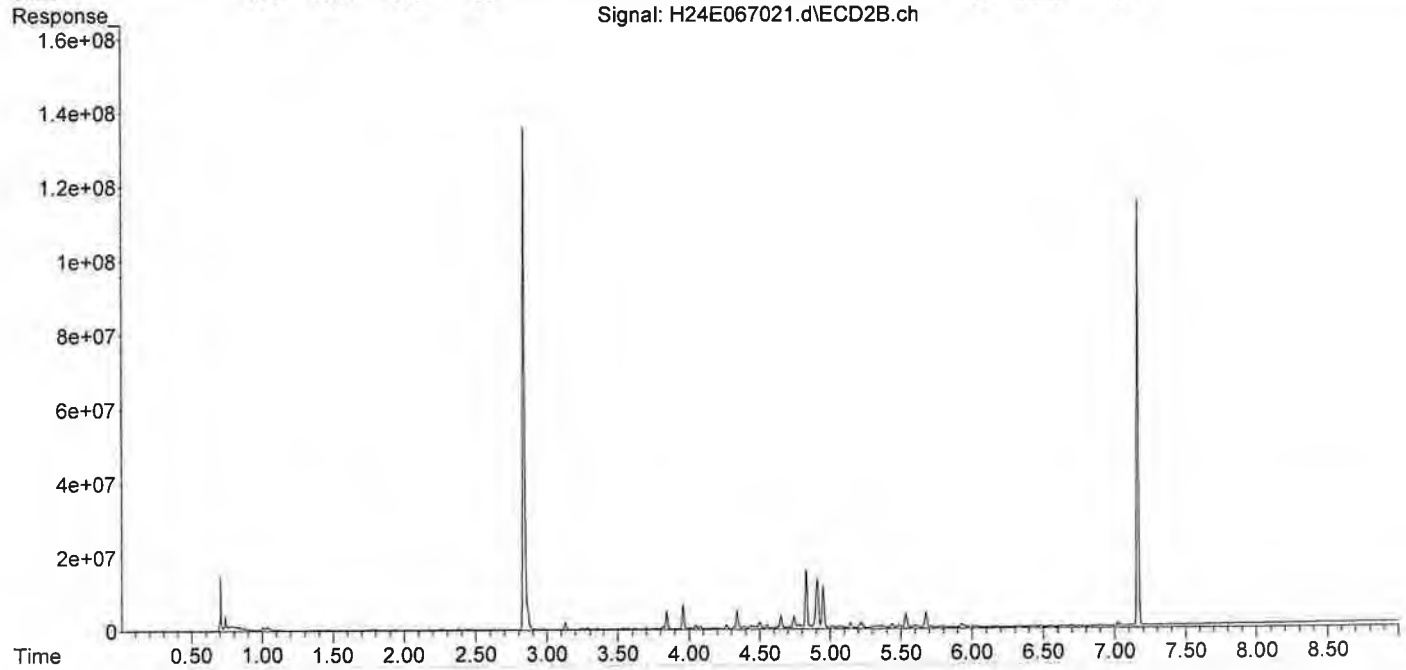
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\030724\
Data File : H24E067021.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Mar 2024 2:06 pm
Operator : PJG
Sample : CHLOR 50 Inst : ECD 8
Misc : mix[18]
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: Apr 09 14:35:11 2024
Quant Method : C:\msdchem\1\methods\8PEST030724.M
Quant Title : PEST 03/27/24 CHLOR 03/27/24 TOX 03/27/24 2400412
QLast Update : Thu Feb 29 13:55:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\030724\
Data File : H24E067022.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Mar 2024 2:18 pm
Operator : PJG
Sample : CHLOR 100 Inst : ECD 8
Misc : mix[18]
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: Apr 09 14:35:15 2024
Quant Method : C:\msdchem\1\methods\8PEST030724.M
Quant Title : PEST 03/27/24 CHLOR 03/27/24 TOX 03/27/24 2400412
QLast Update : Thu Feb 29 13:55:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
		System Monitoring Compounds						
1)	S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
24)	S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)	T	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D.
3)	T	alpha-BHC	0.000	0.000	0	0	N.D.	N.D. d
4)	T	gamma-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	T	Beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6)	T	Delta-BHC	0.000	0.000	0	0	N.D. d	N.D.
7)	T	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
8)	T	Aldrin	0.000	0.000	0	0	N.D. d	N.D.
9)	T	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
10)	T	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
11)	T	Y-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
12)	T	A-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
13)	T	4,4-DDE	0.000	0.000	0	0	N.D. d	N.D. d
14)	T	Endo-I	0.000	0.000	0	0	N.D. d	N.D. d
15)	T	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
16)	T	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
17)	T	4,4-DDD	0.000	0.000	0	0	N.D.	N.D. d
18)	T	Endo-II	0.000	0.000	0	0	N.D. d	N.D. d
19)	T	4,4-DDT	0.000	0.000	0	0	N.D. d	N.D.
20)	T	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
21)	T	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
22)	T	End Sulf	0.000	0.000	0	0	N.D. d	N.D. d
23)	T	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
25)	L8	Chlordane{1}	4.028	3.841	116.9E6	86103378	NoCal	NoCal
26)	L8	Chlordane{2}	4.093	3.957	165.6E6	120.5E6	NoCal	NoCal
27)	L8	Chlordane{3}	4.455	4.339	137.7E6	98866760	NoCal	NoCal
28)	L8	Chlordane{4}	4.945	4.907	469.0E6	357.5E6	NoCal	NoCal
29)	L8	Chlordane{5}	5.689	4.949	121.3E6	246.5E6	NoCal	NoCal
		Sum Chlordane			0	0	N.D.	N.D.
		Average Chlordane					0.000	0.000
30)	H	Toxaphene	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

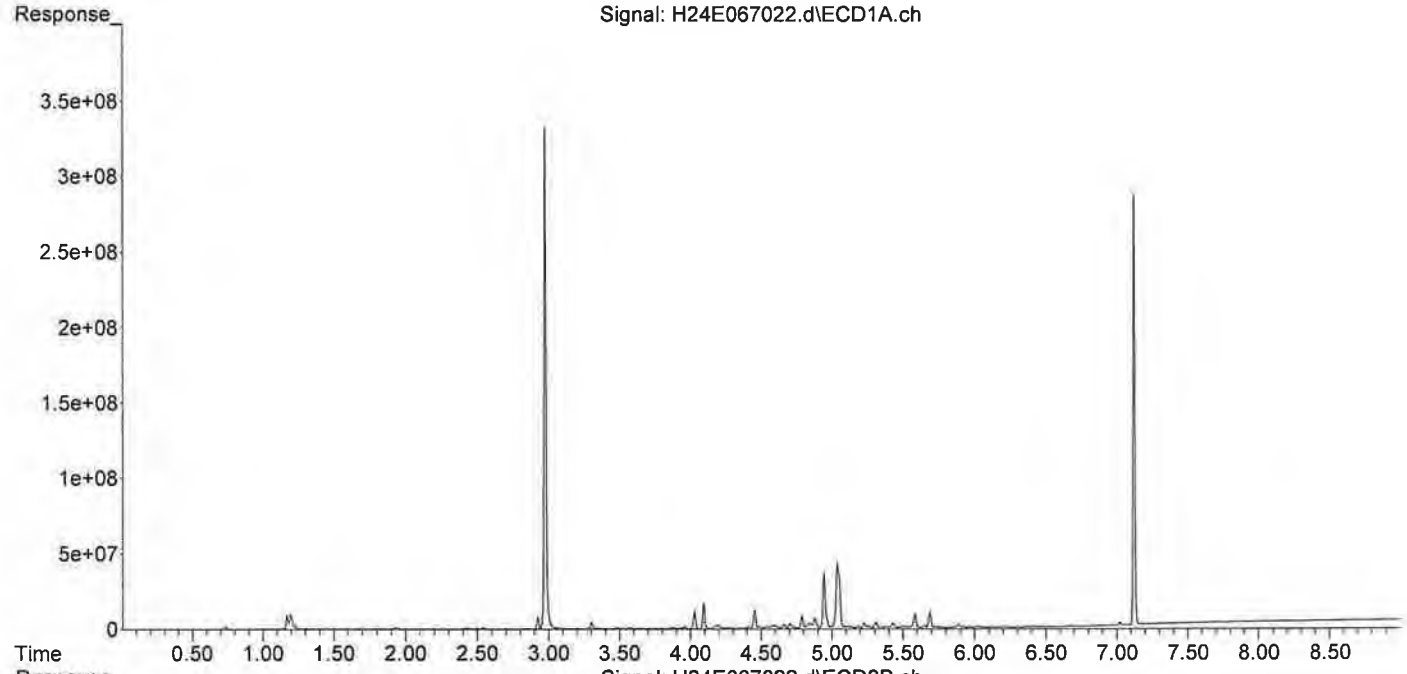
CHECKED BY:
APR 09 2024
Todd Gionfriddo

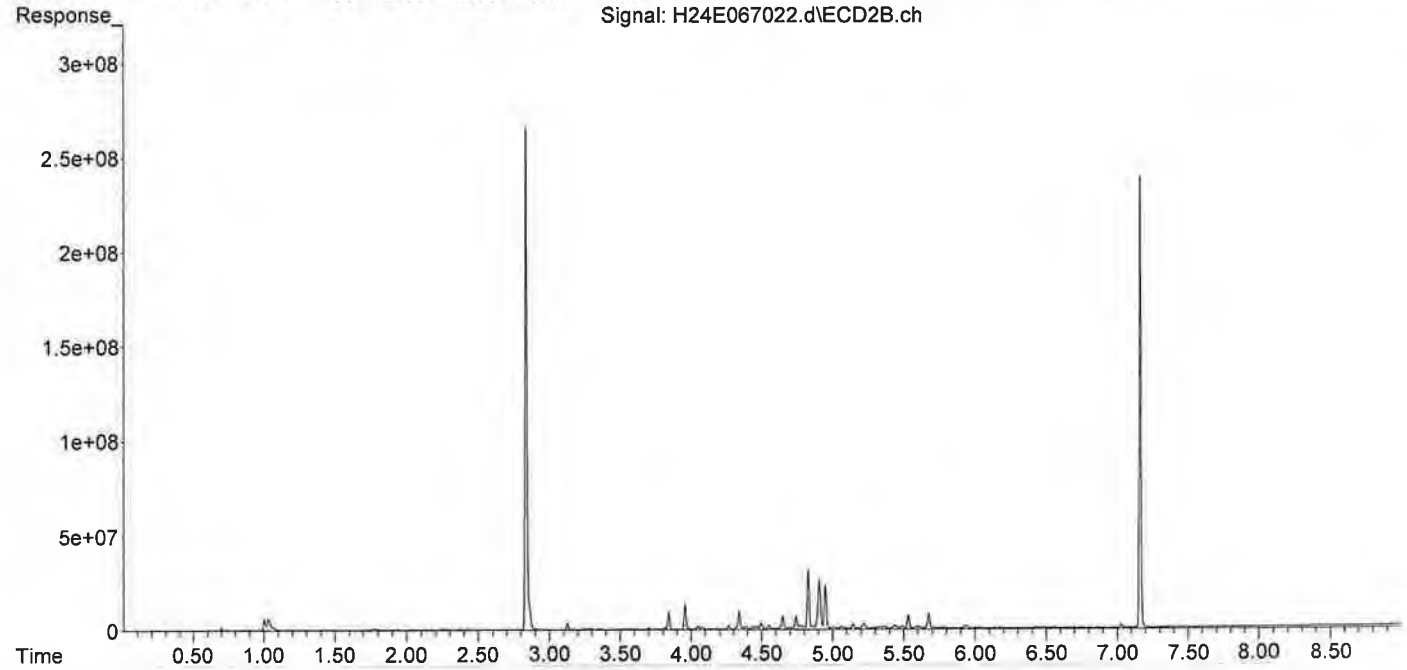
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\030724\
Data File : H24E067022.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Mar 2024 2:18 pm
Operator : PJG
Sample : CHLOR 100 Inst : ECD 8
Misc : mix[18]
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: Apr 09 14:35:15 2024
Quant Method : C:\msdchem\1\methods\8PEST030724.M
Quant Title : PEST 03/27/24 CHLOR 03/27/24 TOX 03/27/24 2400412
QLast Update : Thu Feb 29 13:55:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\030724\
Data File : H24E067023.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Mar 2024 2:30 pm
Operator : PJG
Sample : CHLOR 200 Inst : ECD 8
Misc : mix[18]
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: Apr 09 14:35:19 2024
Quant Method : C:\msdchem\1\methods\8PEST030724.M
Quant Title : PEST 03/27/24 CHLOR 03/27/24 TOX 03/27/24 2400412
QLast Update : Thu Feb 29 13:55:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
		System Monitoring Compounds						
1)	S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
24)	S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)	T	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D.
3)	T	alpha-BHC	0.000	0.000	0	0	N.D.	N.D. d
4)	T	gamma-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	T	Beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6)	T	Delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	T	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
8)	T	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
9)	T	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
10)	T	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
11)	T	Y-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
12)	T	A-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
13)	T	4,4-DDE	0.000	0.000	0	0	N.D. d	N.D. d
14)	T	Endo-I	0.000	0.000	0	0	N.D. d	N.D. d
15)	T	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
16)	T	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
17)	T	4,4-DDD	0.000	0.000	0	0	N.D.	N.D. d
18)	T	Endo-II	0.000	0.000	0	0	N.D. d	N.D. d
19)	T	4,4-DDT	0.000	0.000	0	0	N.D. d	N.D. d
20)	T	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
21)	T	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
22)	T	End Sulf	0.000	0.000	0	0	N.D. d	N.D. d
23)	T	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
25)	L8	Chlordane{1}	4.028	3.841	258.9E6	189.3E6	NoCal	NoCal
26)	L8	Chlordane{2}	4.093	3.957	365.0E6	268.9E6	NoCal	NoCal
27)	L8	Chlordane{3}	4.455	4.339	294.9E6	211.3E6	NoCal	NoCal
28)	L8	Chlordane{4}	4.944	4.907	1040.0E6	799.9E6	NoCal	NoCal
29)	L8	Chlordane{5}	5.689	4.949	273.0E6	550.3E6	NoCal	NoCal
		Sum Chlordane			0	0	N.D.	N.D.
		Average Chlordane					0.000	0.000
30)	H	Toxaphene	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

CHECKED BY:

APR 09 2024

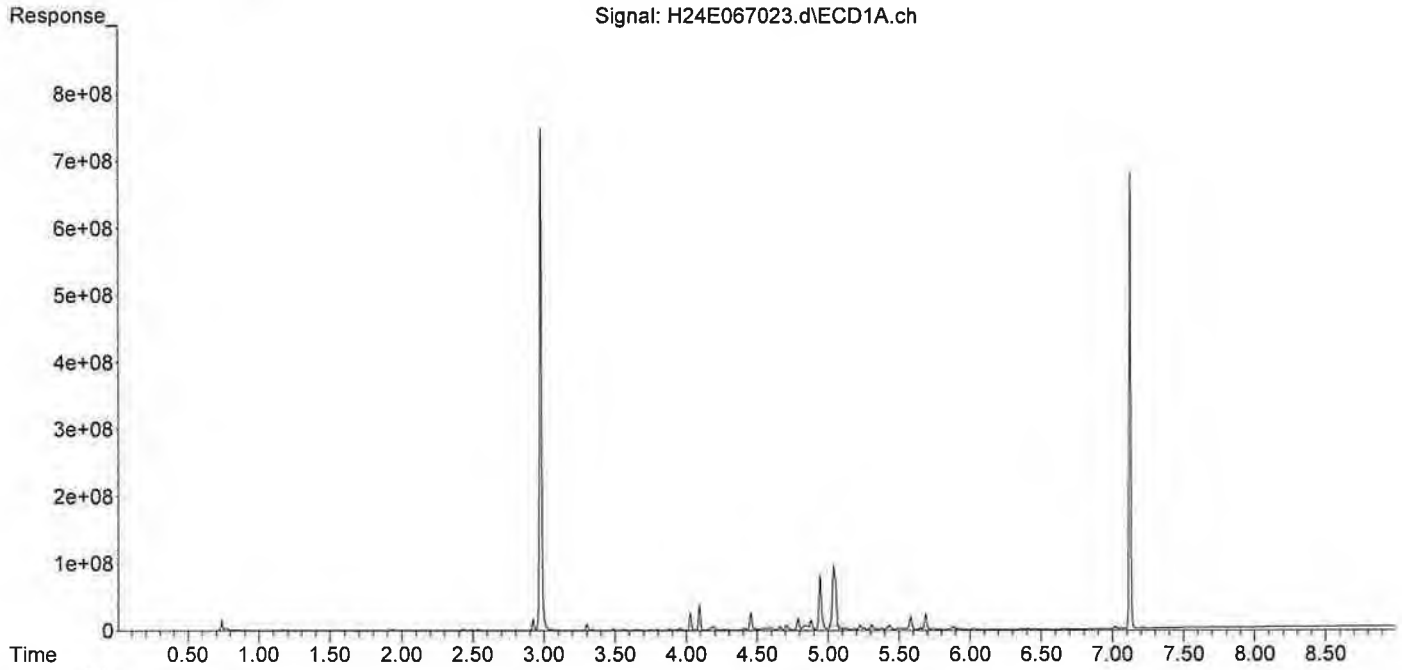
Todd Gionfriddo

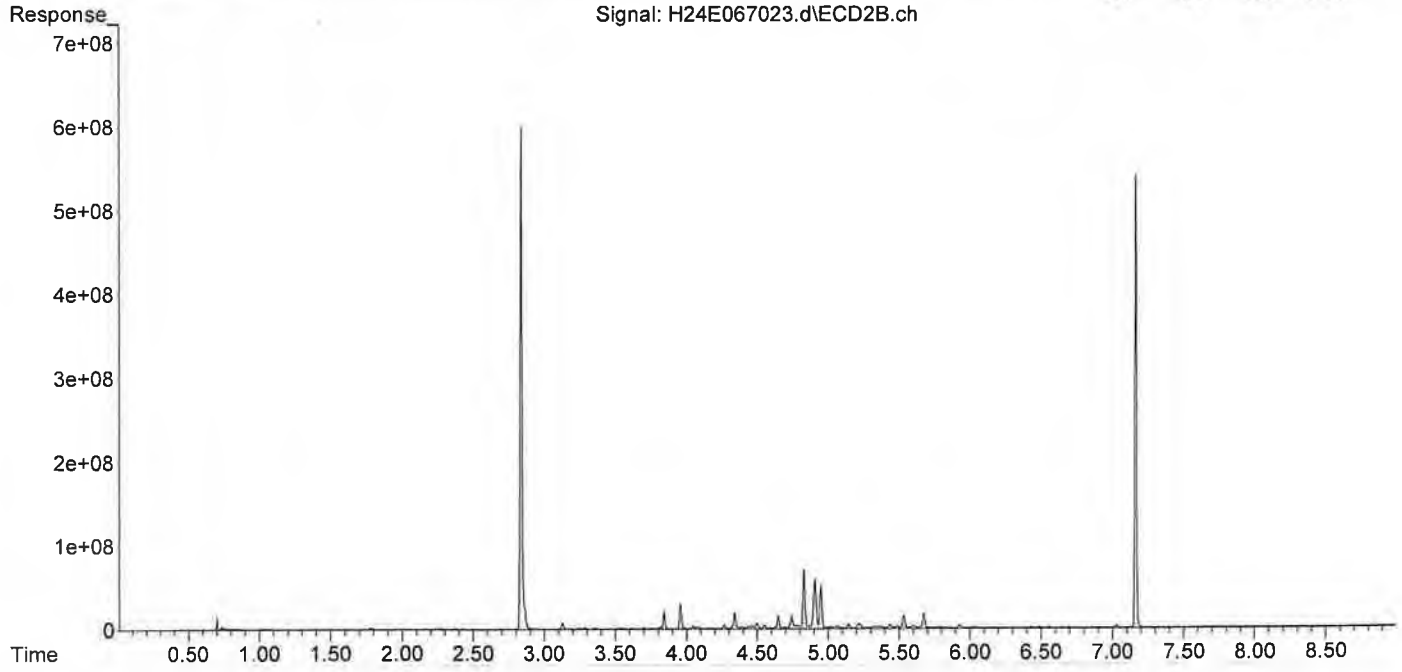
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\030724\
Data File : H24E067023.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Mar 2024 2:30 pm
Operator : PJG
Sample : CHLOR 200 Inst : ECD 8
Misc : mix[18]
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: Apr 09 14:35:19 2024
Quant Method : C:\msdchem\1\methods\8PEST030724.M
Quant Title : PEST 03/27/24 CHLOR 03/27/24 TOX 03/27/24 2400412
QLast Update : Thu Feb 29 13:55:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\030724\
Data File : H24E067024.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Mar 2024 2:42 pm
Operator : PJG
Sample : CHLOR 250 Inst : ECD 8
Misc : mix[18]
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: Apr 09 14:35:23 2024
Quant Method : C:\msdchem\1\methods\8PEST030724.M
Quant Title : PEST 03/27/24 CHLOR 03/27/24 TOX 03/27/24 2400412
QLast Update : Thu Feb 29 13:55:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
		System Monitoring Compounds						
1)	S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
24)	S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)	T	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D.
3)	T	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	T	gamma-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	T	Beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6)	T	Delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	T	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
8)	T	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
9)	T	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
10)	T	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
11)	T	Y-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
12)	T	A-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
13)	T	4,4-DDE	0.000	0.000	0	0	N.D. d	N.D. d
14)	T	Endo-I	0.000	0.000	0	0	N.D. d	N.D. d
15)	T	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
16)	T	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
17)	T	4,4-DDD	0.000	0.000	0	0	N.D.	N.D. d
18)	T	Endo-II	0.000	0.000	0	0	N.D. d	N.D. d
19)	T	4,4-DDT	0.000	0.000	0	0	N.D. d	N.D. d
20)	T	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
21)	T	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
22)	T	End Sulf	0.000	0.000	0	0	N.D. d	N.D. d
23)	T	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
25)	L8	Chlordane{1}	4.028	3.841	313.6E6	229.3E6	NoCal	NoCal
26)	L8	Chlordane{2}	4.093	3.957	442.6E6	327.9E6	NoCal	NoCal
27)	L8	Chlordane{3}	4.455	4.339	354.3E6	235.2E6	NoCal	NoCal
28)	L8	Chlordane{4}	4.944	4.907	1259.1E6	968.8E6	NoCal	NoCal
29)	L8	Chlordane{5}	5.688	4.949	331.8E6	667.3E6	NoCal	NoCal
		Sum Chlordane			0	0	N.D.	N.D.
Average		Chlordane					0.000	0.000
30)	H	Toxaphene	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

CHECKED BY:

APR 09 2024

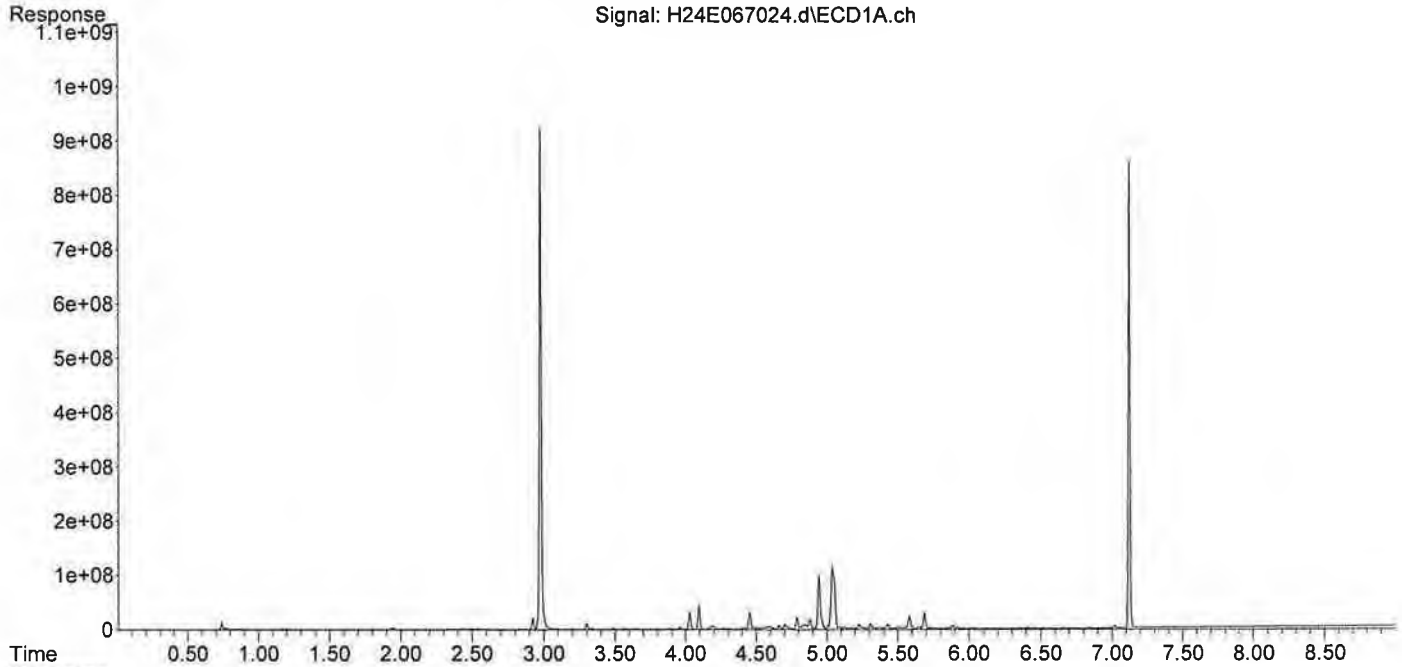
Todd Gionfriddo

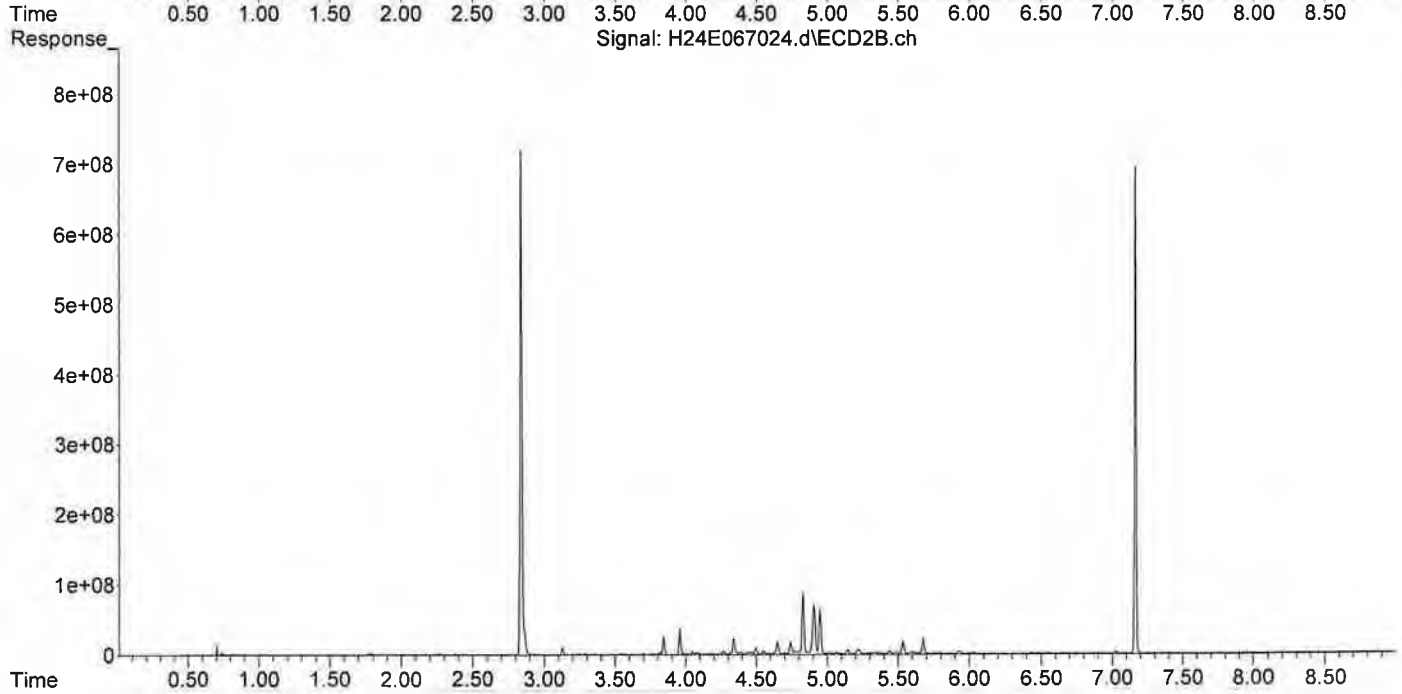
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\030724\
Data File : H24E067024.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Mar 2024 2:42 pm
Operator : PJG
Sample : CHLOR 250 Inst : ECD 8
Misc : mix[18]
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: Apr 09 14:35:23 2024
Quant Method : C:\msdchem\1\methods\8PEST030724.M
Quant Title : PEST 03/27/24 CHLOR 03/27/24 TOX 03/27/24 2400412
QLast Update : Thu Feb 29 13:55:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\030724\
Data File : H24E067025.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Mar 2024 2:54 pm
Operator : PJG
Sample : CHLOR 500 Inst : ECD 8
Misc : mix[18]
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: Apr 09 14:35:27 2024
Quant Method : C:\msdchem\1\methods\8PEST030724.M
Quant Title : PEST 03/27/24 CHLOR 03/27/24 TOX 03/27/24 2400412
QLast Update : Thu Feb 29 13:55:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
		System Monitoring Compounds						
1)	S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
24)	S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)	T	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
3)	T	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	T	gamma-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	T	Beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6)	T	Delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	T	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
8)	T	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
9)	T	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
10)	T	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
11)	T	Y-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
12)	T	A-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
13)	T	4,4-DDE	0.000	0.000	0	0	N.D. d	N.D. d
14)	T	Endo-I	0.000	0.000	0	0	N.D. d	N.D. d
15)	T	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
16)	T	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
17)	T	4,4-DDD	0.000	0.000	0	0	N.D.	N.D. d
18)	T	Endo-II	0.000	0.000	0	0	N.D. d	N.D. d
19)	T	4,4-DDT	0.000	0.000	0	0	N.D. d	N.D. d
20)	T	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
21)	T	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
22)	T	End Sulf	0.000	0.000	0	0	N.D. d	N.D. d
23)	T	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
25)	L8	Chlordane{1}	4.029	3.841	589.4E6	435.1E6	NoCal	NoCal
26)	L8	Chlordane{2}	4.094	3.957	833.0E6	621.4E6	NoCal	NoCal
27)	L8	Chlordane{3}	4.455	4.339	651.8E6	431.6E6	NoCal	NoCal
28)	L8	Chlordane{4}	4.944	4.907	2364.0E6	1821.7E6	NoCal	NoCal
29)	L8	Chlordane{5}	5.689	4.949	636.0E6	1253.0E6	NoCal	NoCal
		Sum Chlordane			0	0	N.D.	N.D.
		Average Chlordane					0.000	0.000
30)	H	Toxaphene	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

CHECKED BY:

APR 09 2024

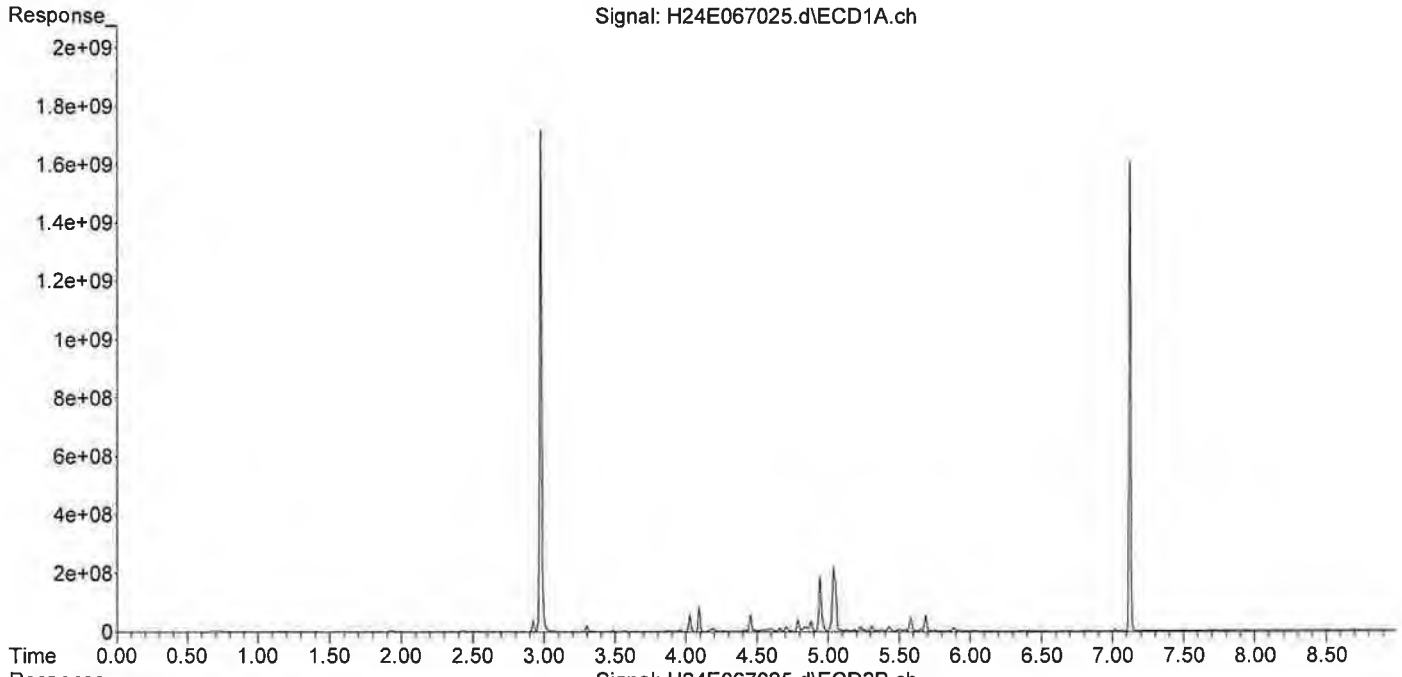
Todd Gionfridde

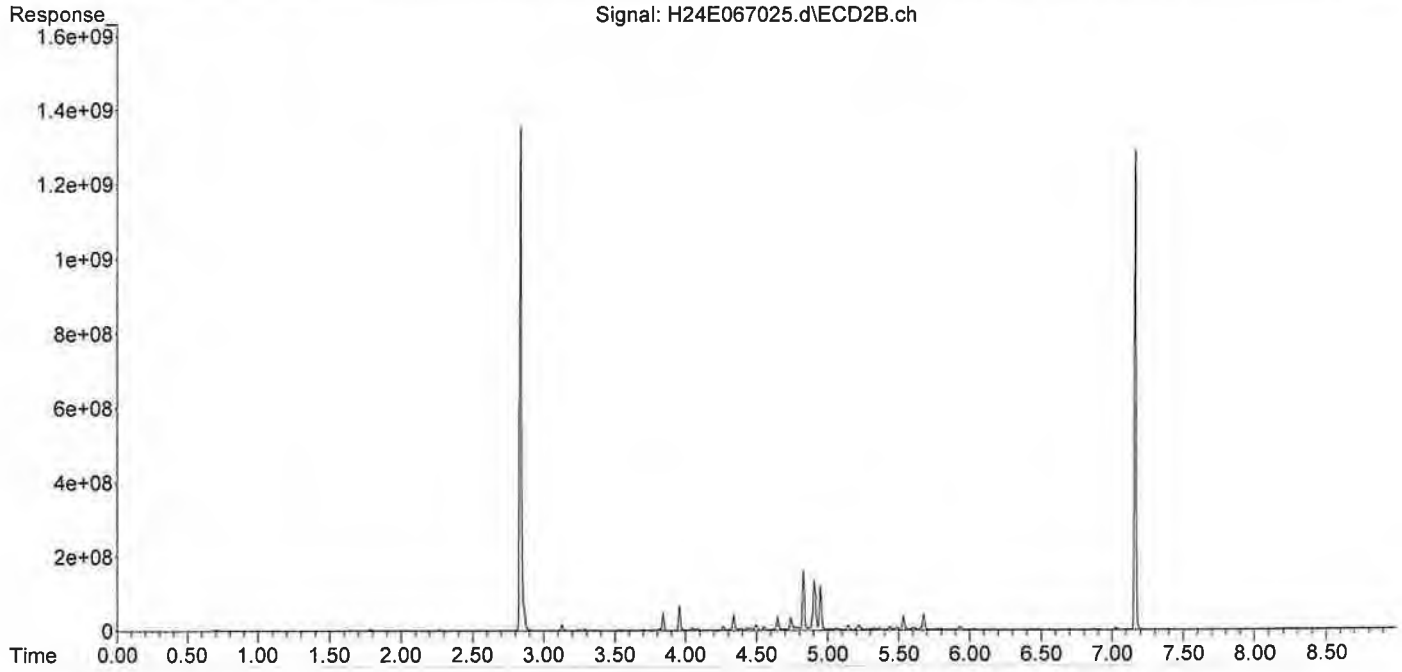
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\030724\
Data File : H24E067025.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Mar 2024 2:54 pm
Operator : PJG
Sample : CHLOR 500 Inst : ECD 8
Misc : mix[18]
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: Apr 09 14:35:27 2024
Quant Method : C:\msdchem\1\methods\8PEST030724.M
Quant Title : PEST 03/27/24 CHLOR 03/27/24 TOX 03/27/24 2400412
QLast Update : Thu Feb 29 13:55:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\030724\
Data File : H24E067026.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Mar 2024 3:06 pm
Operator : PJG
Sample : CHLOR ICV Inst : ECD 8
Misc : mix[18]
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: Apr 09 16:03:14 2024
Quant Method : C:\msdchem\1\methods\8PEST030724C.M
Quant Title : PEST 03/07/24 CHLOR 03/07/24 TOX 03/07/24 2400412
QLast Update : Tue Apr 09 14:48:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
		System Monitoring Compounds						
1)	S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
24)	S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)	T	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D.
3)	T	alpha-BHC	0.000	0.000	0	0	N.D.	N.D. d
4)	T	gamma-BHC	0.000	0.000	0	0	N.D.	N.D. d
5)	T	Beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6)	T	Delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	T	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
8)	T	Aldrin	0.000	0.000	0	0	N.D. d	N.D.
9)	T	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
10)	T	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
11)	T	Y-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
12)	T	A-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
13)	T	4,4-DDE	0.000	0.000	0	0	N.D. d	N.D. d
14)	T	Endo-I	0.000	0.000	0	0	N.D. d	N.D. d
15)	T	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
16)	T	Endrin	0.000	0.000	0	0	N.D.	N.D. d
17)	T	4,4-DDD	0.000	0.000	0	0	N.D.	N.D.
18)	T	Endo-II	0.000	0.000	0	0	N.D. d	N.D. d
19)	T	4,4-DDT	0.000	0.000	0	0	N.D. d	N.D.
20)	T	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
21)	T	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
22)	T	End Sulf	0.000	0.000	0	0	N.D. d	N.D. d
23)	T	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
25)	L8	Chlordane{1}	4.029	3.841	127.8E6	94679721	103.999	104.192
26)	L8	Chlordane{2}	4.094	3.957	207.3E6	151.8E6	121.217	120.924
27)	L8	Chlordane{3}	4.455	4.340	156.5E6	106.5E6	107.272	105.371
28)	L8	Chlordane{4}	4.944	4.906	458.7E6	221.2E6	93.819	59.119 #
29)	L8	Chlordane{5}	5.689	4.948	115.3E6	270.2E6	91.012	103.848
		Sum Chlordane			1065.5E6	844.3E6	517.320	493.454
		Average Chlordane					103.464	98.691
30)	H	Toxaphene	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

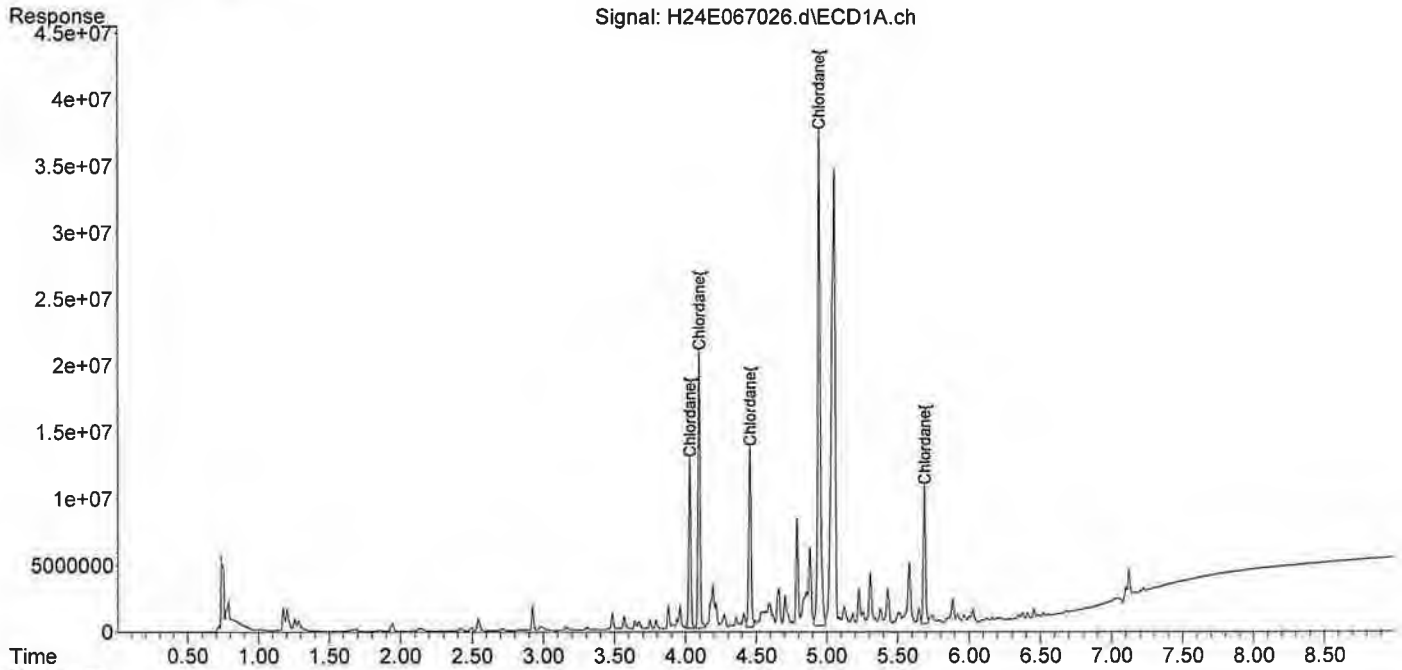
CHECKED BY:
APR 09 2024
Todd Gi...

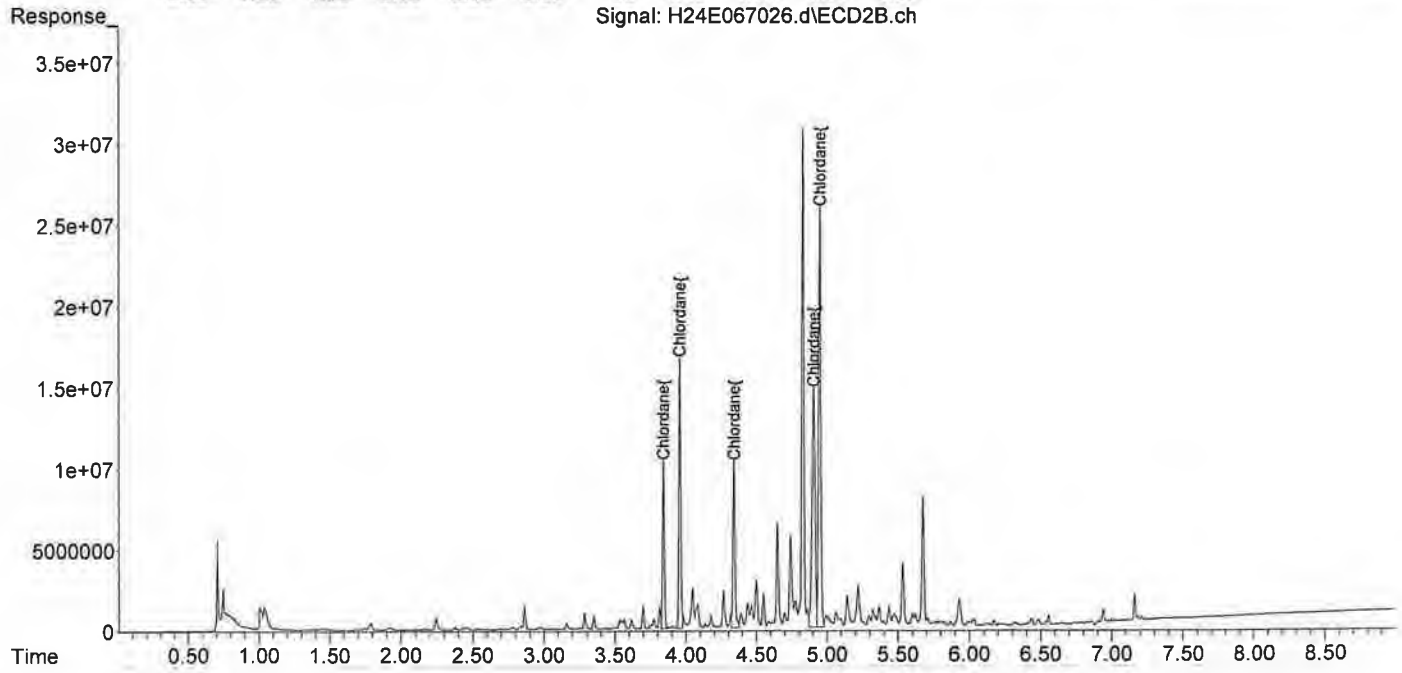
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\030724\
Data File : H24E067026.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Mar 2024 3:06 pm
Operator : PJG
Sample : CHLOR ICV Inst : ECD 8
Misc : mix[18]
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: Apr 09 16:03:14 2024
Quant Method : C:\msdchem\1\methods\8PEST030724C.M
Quant Title : PEST 03/07/24 CHLOR 03/07/24 TOX 03/07/24 2400412
QLast Update : Tue Apr 09 14:48:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\030724\
Data File : H24E067027.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Mar 2024 3:18 pm
Operator : PJG
Sample : TOX 50 Inst : ECD 8
Misc : mix[h]
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: Apr 09 14:35:31 2024
Quant Method : C:\msdchem\1\methods\8PEST030724.M
Quant Title : PEST 03/27/24 CHLOR 03/27/24 TOX 03/27/24 2400412
QLast Update : Thu Feb 29 13:55:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
		System Monitoring Compounds						
1)	S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
24)	S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)	T	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D.
3)	T	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	T	gamma-BHC	0.000	0.000	0	0	N.D. d	N.D.
5)	T	Beta-BHC	0.000	0.000	0	0	N.D.	N.D.
6)	T	Delta-BHC	0.000	0.000	0	0	N.D.	N.D.
7)	T	Heptachlor	0.000	0.000	0	0	N.D.	N.D.
8)	T	Aldrin	0.000	0.000	0	0	N.D.	N.D.
9)	T	Alachlor	0.000	0.000	0	0	N.D. d	N.D.
10)	T	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
11)	T	Y-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
12)	T	A-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
13)	T	4,4-DDE	0.000	0.000	0	0	N.D. d	N.D. d
14)	T	Endo-I	0.000	0.000	0	0	N.D. d	N.D. d
15)	T	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
16)	T	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
17)	T	4,4-DDD	0.000	0.000	0	0	N.D.	N.D. d
18)	T	Endo-II	0.000	0.000	0	0	N.D. d	N.D. d
19)	T	4,4-DDT	0.000	0.000	0	0	N.D. d	N.D.
20)	T	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
21)	T	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
22)	T	End Sulf	0.000	0.000	0	0	N.D. d	N.D. d
23)	T	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
25)	L8	Chlordane{1}	0.000	0.000	0	0	N.D.	N.D.
26)	L8	Chlordane{2}	0.000	0.000	0	0	N.D.	N.D.
27)	L8	Chlordane{3}	0.000	0.000	0	0	N.D. d	N.D.
28)	L8	Chlordane{4}	0.000	0.000	0	0	N.D. d	N.D. d
29)	L8	Chlordane{5}	0.000	0.000	0	0	N.D. d	N.D. d
		Sum Chlordane			0	0	N.D.	N.D.
Average		Chlordane					0.000	0.000
30)	H	Toxaphene	5.840	5.707	1387.0E6	837.1E6	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

CHECKED BY:

APR 09 2024

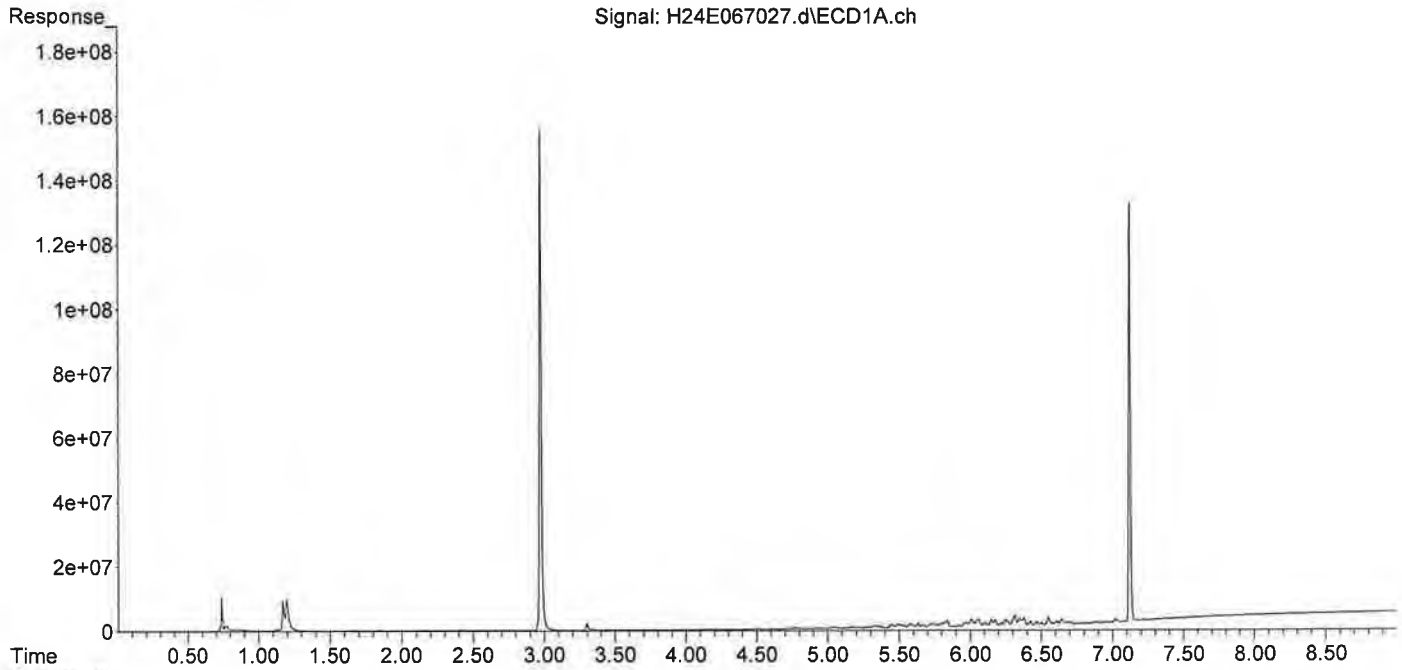
Todd Gionfridde

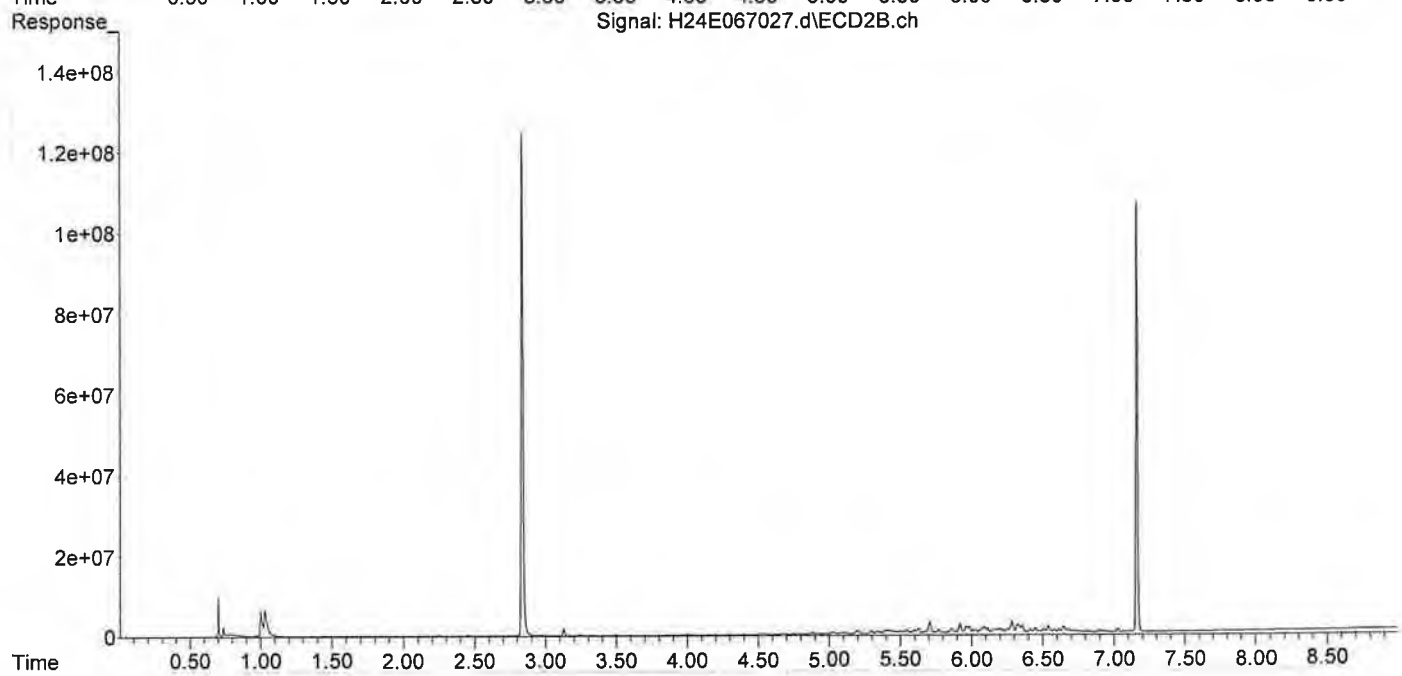
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\030724\
Data File : H24E067027.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Mar 2024 3:18 pm
Operator : PJG
Sample : TOX 50 Inst : ECD 8
Misc : mix[h]
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: Apr 09 14:35:31 2024
Quant Method : C:\msdchem\1\methods\8PEST030724.M
Quant Title : PEST 03/27/24 CHLOR 03/27/24 TOX 03/27/24 2400412
QLast Update : Thu Feb 29 13:55:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\030724\
Data File : H24E067028.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Mar 2024 3:30 pm
Operator : PJG
Sample : TOX 100 Inst : ECD 8
Misc : mix[h]
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: Apr 09 14:35:35 2024
Quant Method : C:\msdchem\1\methods\8PEST030724.M
Quant Title : PEST 03/27/24 CHLOR 03/27/24 TOX 03/27/24 2400412
QLast Update : Thu Feb 29 13:55:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
		System Monitoring Compounds						
1)	S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
24)	S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)	T	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D.
3)	T	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	T	gamma-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	T	Beta-BHC	0.000	0.000	0	0	N.D.	N.D.
6)	T	Delta-BHC	0.000	0.000	0	0	N.D.	N.D.
7)	T	Heptachlor	0.000	0.000	0	0	N.D. d	N.D.
8)	T	Aldrin	0.000	0.000	0	0	N.D.	N.D.
9)	T	Alachlor	0.000	0.000	0	0	N.D. d	N.D.
10)	T	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
11)	T	Y-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
12)	T	A-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
13)	T	4,4-DDE	0.000	0.000	0	0	N.D. d	N.D. d
14)	T	Endo-I	0.000	0.000	0	0	N.D. d	N.D. d
15)	T	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
16)	T	Endrin	0.000	0.000	0	0	N.D.	N.D. d
17)	T	4,4-DDD	0.000	0.000	0	0	N.D.	N.D. d
18)	T	Endo-II	0.000	0.000	0	0	N.D. d	N.D. d
19)	T	4,4-DDT	0.000	0.000	0	0	N.D. d	N.D.
20)	T	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
21)	T	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
22)	T	End Sulf	0.000	0.000	0	0	N.D. d	N.D. d
23)	T	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
25)	L8	Chlordane{1}	0.000	0.000	0	0	N.D. d	N.D.
26)	L8	Chlordane{2}	0.000	0.000	0	0	N.D. d	N.D.
27)	L8	Chlordane{3}	0.000	0.000	0	0	N.D. d	N.D.
28)	L8	Chlordane{4}	0.000	0.000	0	0	N.D. d	N.D. d
29)	L8	Chlordane{5}	0.000	0.000	0	0	N.D. d	N.D. d
		Sum Chlordane			0	0	N.D.	N.D.
		Average Chlordane					0.000	0.000
30)	H	Toxaphene	5.840	5.707	2200.8E6	1594.0E6	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

CHECKED BY:

APR 09 2024

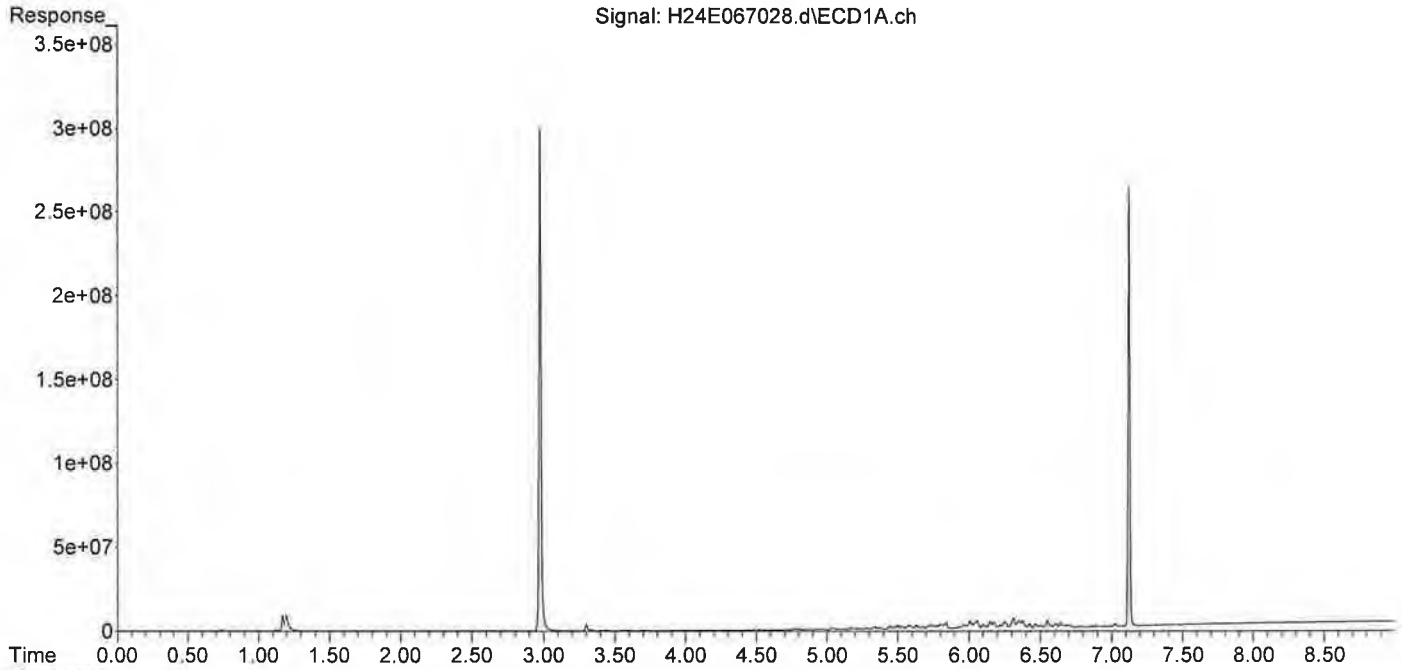
Todd Gionfridde

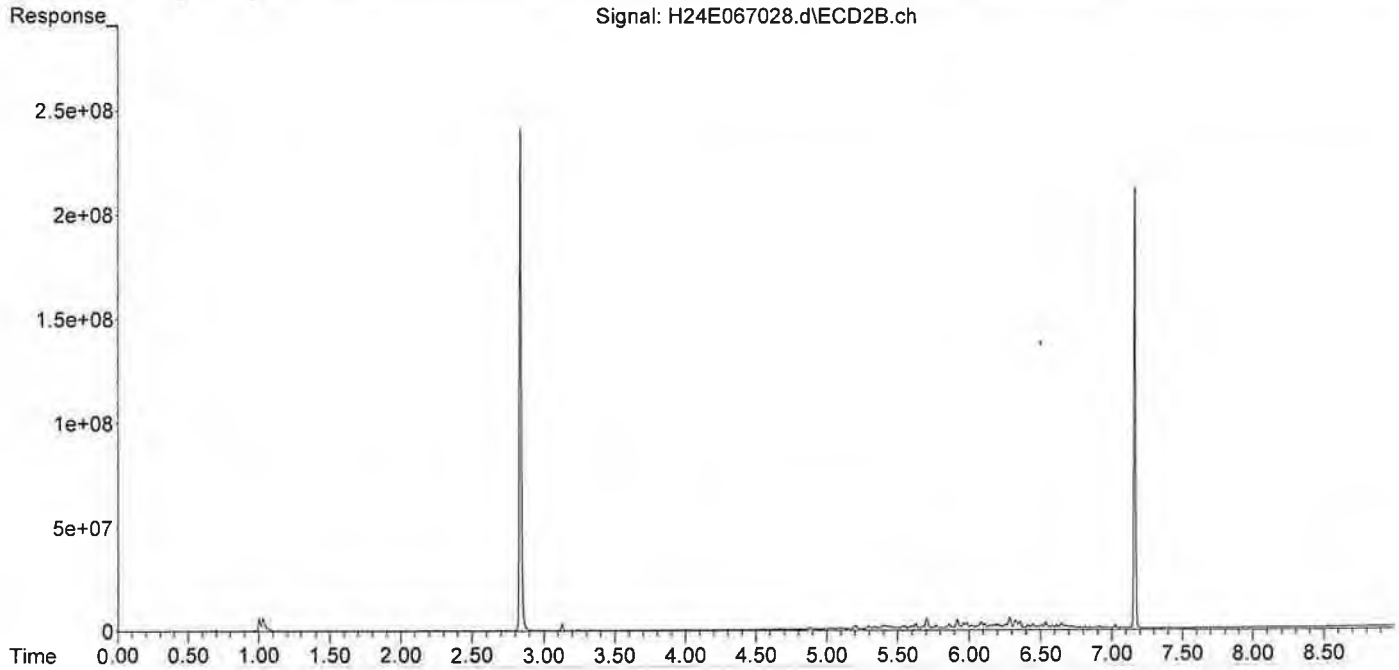
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\030724\
Data File : H24E067028.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Mar 2024 3:30 pm
Operator : PJG
Sample : TOX 100 Inst : ECD 8
Misc : mix[h]
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: Apr 09 14:35:35 2024
Quant Method : C:\msdchem\1\methods\8PEST030724.M
Quant Title : PEST 03/27/24 CHLOR 03/27/24 TOX 03/27/24 2400412
QLast Update : Thu Feb 29 13:55:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\030724\
Data File : H24E067029.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Mar 2024 3:42 pm
Operator : PJG
Sample : TOX 200 Inst : ECD 8
Misc : mix[h]
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: Apr 09 14:35:39 2024
Quant Method : C:\msdchem\1\methods\8PEST030724.M
Quant Title : PEST 03/27/24 CHLOR 03/27/24 TOX 03/27/24 2400412
QLast Update : Thu Feb 29 13:55:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
		System Monitoring Compounds						
1)	S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
24)	S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)	T	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D.
3)	T	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	T	gamma-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	T	Beta-BHC	0.000	0.000	0	0	N.D.	N.D.
6)	T	Delta-BHC	0.000	0.000	0	0	N.D.	N.D. d
7)	T	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
8)	T	Aldrin	0.000	0.000	0	0	N.D. d	N.D.
9)	T	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
10)	T	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
11)	T	Y-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
12)	T	A-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
13)	T	4,4-DDE	0.000	0.000	0	0	N.D. d	N.D. d
14)	T	Endo-I	0.000	0.000	0	0	N.D. d	N.D. d
15)	T	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
16)	T	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
17)	T	4,4-DDD	0.000	0.000	0	0	N.D.	N.D. d
18)	T	Endo-II	0.000	0.000	0	0	N.D. d	N.D. d
19)	T	4,4-DDT	0.000	0.000	0	0	N.D. d	N.D. d
20)	T	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
21)	T	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
22)	T	End Sulf	0.000	0.000	0	0	N.D. d	N.D. d
23)	T	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
25)	L8	Chlordane{1}	0.000	0.000	0	0	N.D. d	N.D. d
26)	L8	Chlordane{2}	0.000	0.000	0	0	N.D. d	N.D. d
27)	L8	Chlordane{3}	0.000	0.000	0	0	N.D. d	N.D. d
28)	L8	Chlordane{4}	0.000	0.000	0	0	N.D. d	N.D. d
29)	L8	Chlordane{5}	0.000	0.000	0	0	N.D. d	N.D. d
		Sum Chlordane			0	0	N.D.	N.D.
Average		Chlordane					0.000	0.000
30)	H	Toxaphene	5.840	5.707	3840.8E6	3312.1E6	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

CHECKED BY:

APR 09 2024

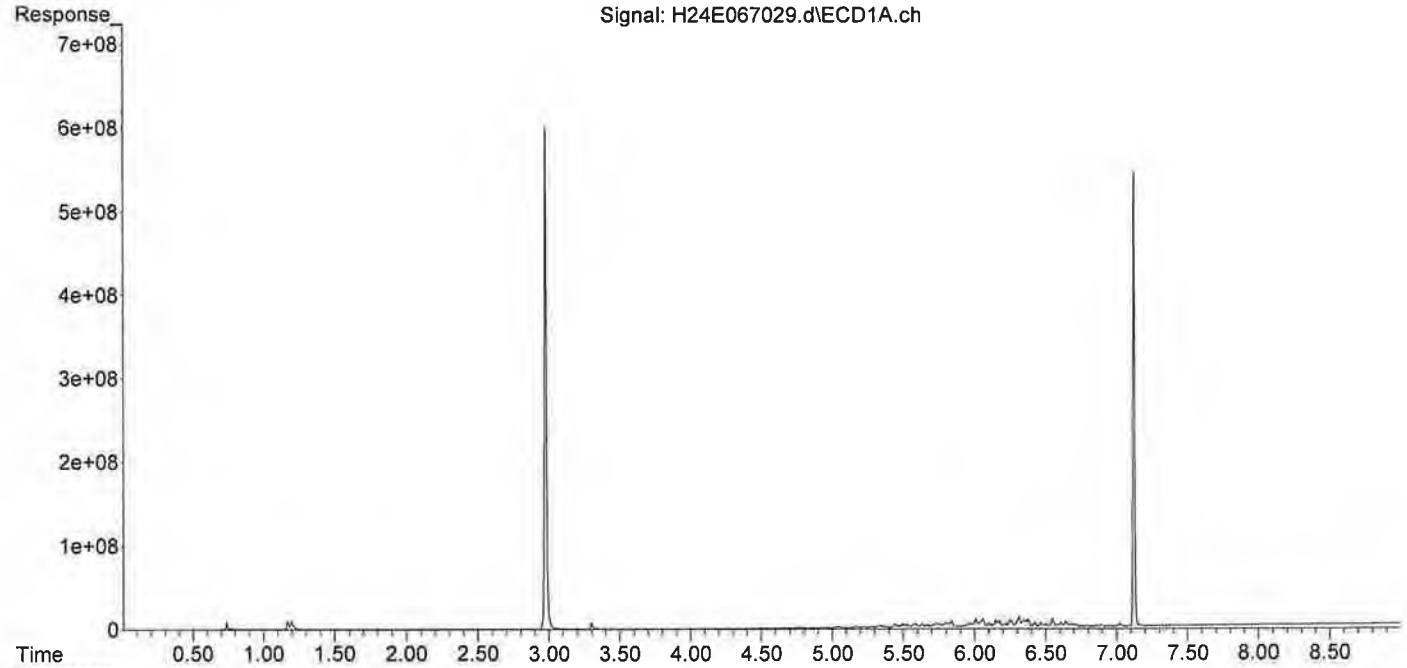
Todd Gionfridde

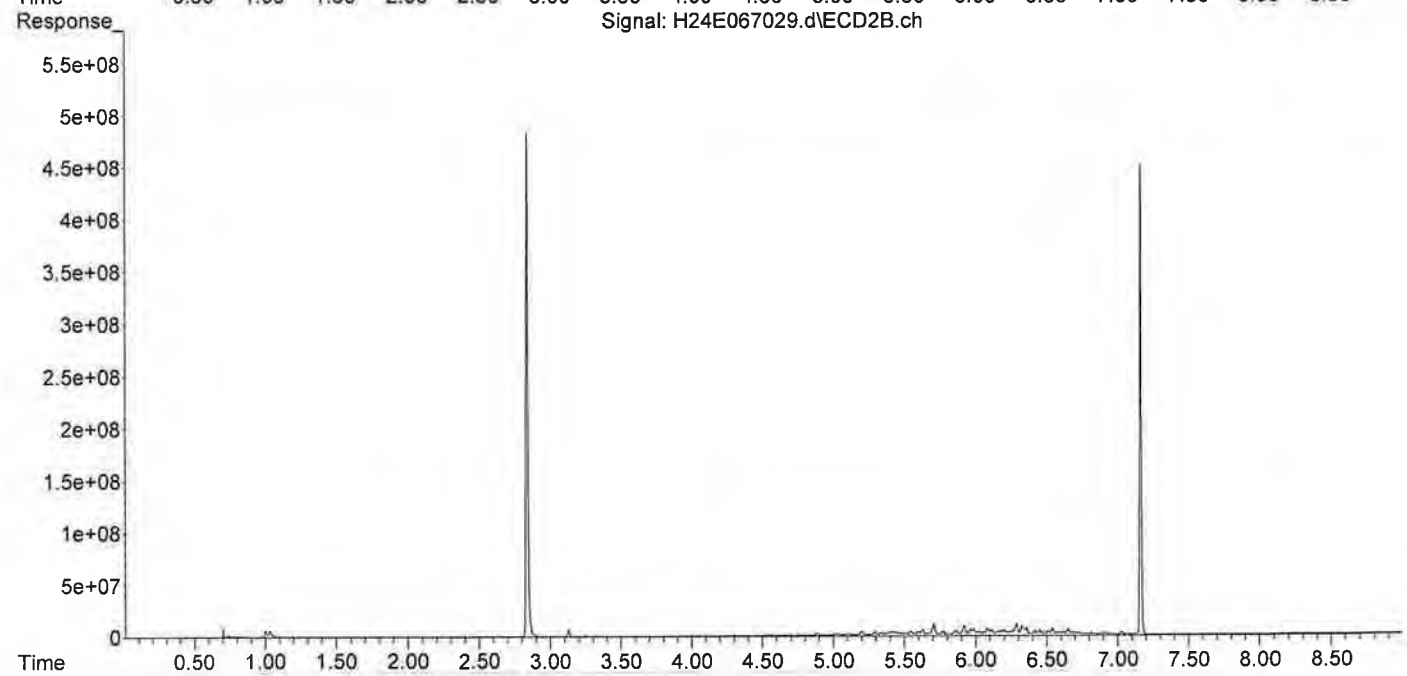
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\030724\
Data File : H24E067029.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Mar 2024 3:42 pm
Operator : PJG
Sample : TOX 200 Inst : ECD 8
Misc : mix[h]
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: Apr 09 14:35:39 2024
Quant Method : C:\msdchem\1\methods\8PEST030724.M
Quant Title : PEST 03/27/24 CHLOR 03/27/24 TOX 03/27/24 2400412
QLast Update : Thu Feb 29 13:55:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\030724\
Data File : H24E067030.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Mar 2024 3:54 pm
Operator : PJG
Sample : TOX 250 Inst : ECD 8
Misc : mix[h]
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: Apr 09 14:35:43 2024
Quant Method : C:\msdchem\1\methods\8PEST030724.M
Quant Title : PEST 03/27/24 CHLOR 03/27/24 TOX 03/27/24 2400412
QLast Update : Thu Feb 29 13:55:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
		System Monitoring Compounds						
1)	S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
24)	S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)	T	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D.
3)	T	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	T	gamma-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	T	Beta-BHC	0.000	0.000	0	0	N.D. d	N.D.
6)	T	Delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	T	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
8)	T	Aldrin	0.000	0.000	0	0	N.D. d	N.D.
9)	T	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
10)	T	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
11)	T	Y-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
12)	T	A-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
13)	T	4,4-DDE	0.000	0.000	0	0	N.D. d	N.D. d
14)	T	Endo-I	0.000	0.000	0	0	N.D. d	N.D. d
15)	T	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
16)	T	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
17)	T	4,4-DDD	0.000	0.000	0	0	N.D.	N.D. d
18)	T	Endo-II	0.000	0.000	0	0	N.D. d	N.D. d
19)	T	4,4-DDT	0.000	0.000	0	0	N.D. d	N.D. d
20)	T	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
21)	T	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
22)	T	End Sulf	0.000	0.000	0	0	N.D. d	N.D. d
23)	T	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
25)	L8	Chlordane{1}	0.000	0.000	0	0	N.D. d	N.D. d
26)	L8	Chlordane{2}	0.000	0.000	0	0	N.D. d	N.D. d
27)	L8	Chlordane{3}	0.000	0.000	0	0	N.D. d	N.D. d
28)	L8	Chlordane{4}	0.000	0.000	0	0	N.D. d	N.D. d
29)	L8	Chlordane{5}	0.000	0.000	0	0	N.D. d	N.D. d
		Sum Chlordane			0	0	N.D.	N.D.
Average		Chlordane					0.000	0.000
30)	H	Toxaphene	5.840	5.707	4982.4E6	4376.9E6	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

CHECKED BY:

APR 09 2024

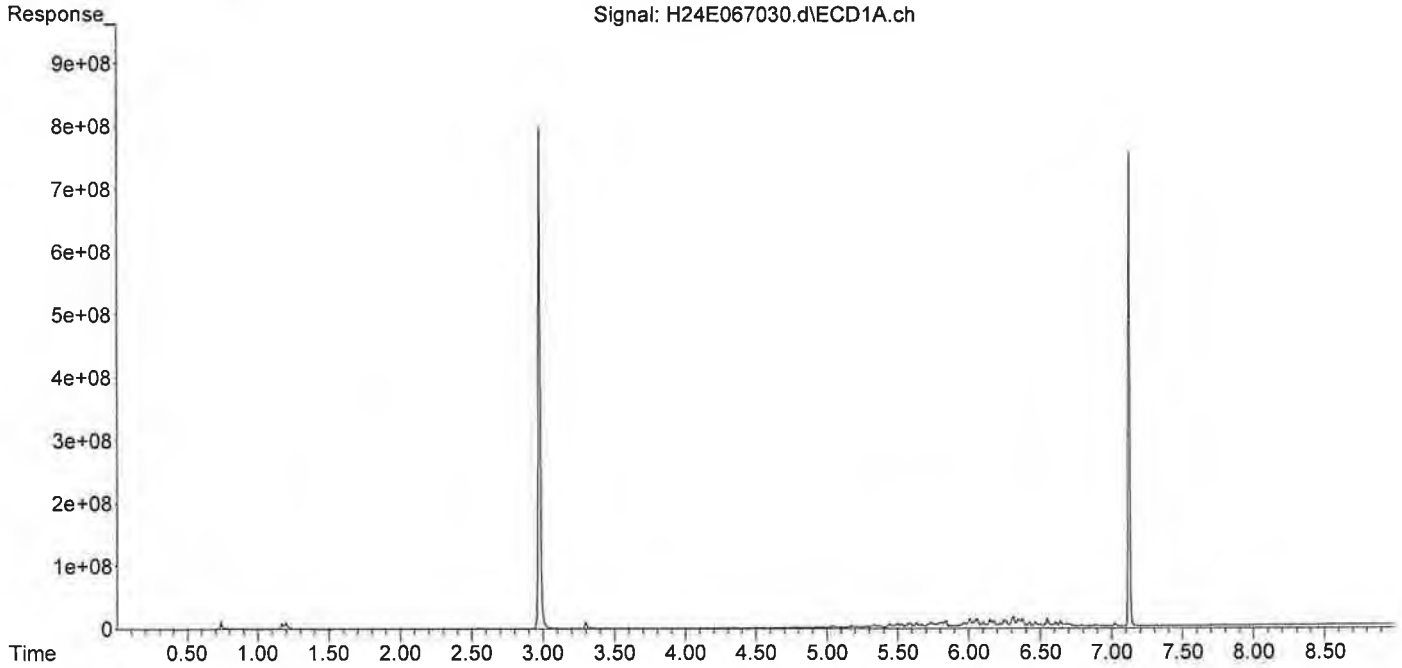
Todd Gionfriddo

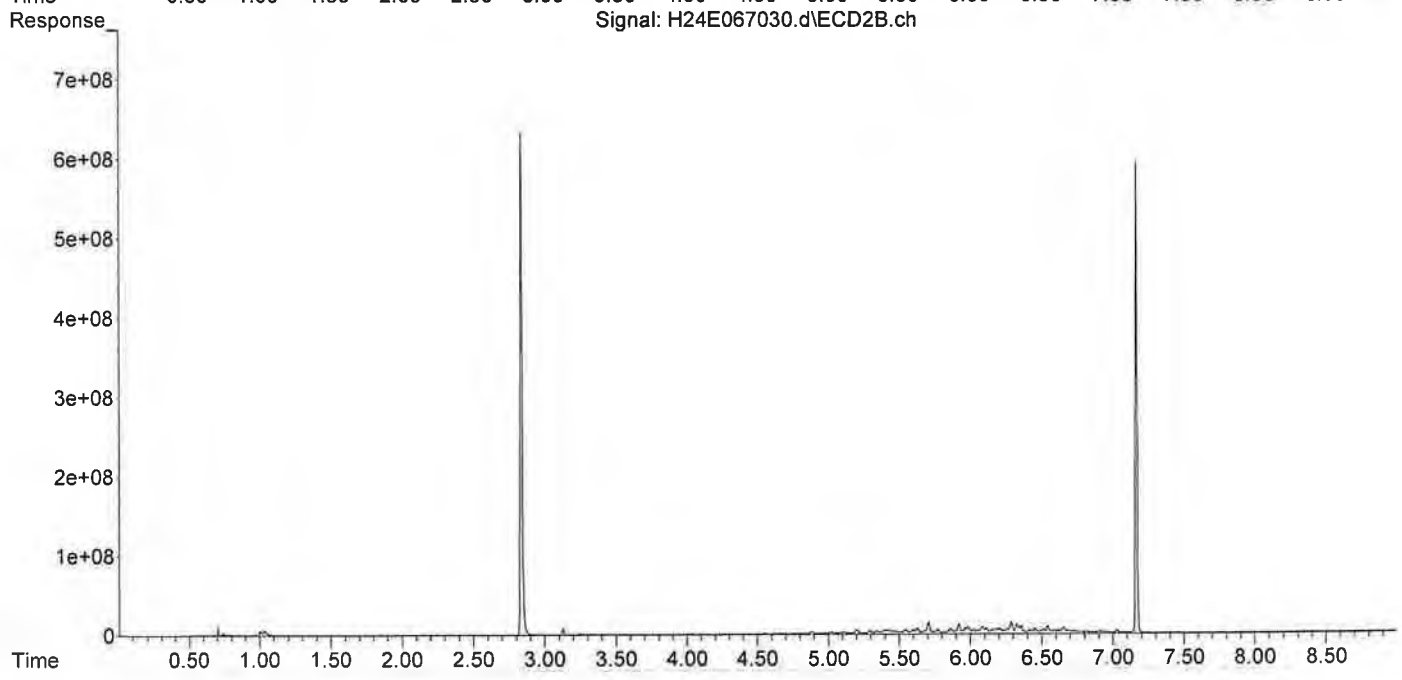
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\030724\
Data File : H24E067030.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Mar 2024 3:54 pm
Operator : PJG
Sample : TOX 250 Inst : ECD 8
Misc : mix[h]
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: Apr 09 14:35:43 2024
Quant Method : C:\msdchem\1\methods\8PEST030724.M
Quant Title : PEST 03/27/24 CHLOR 03/27/24 TOX 03/27/24 2400412
QLast Update : Thu Feb 29 13:55:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\030724\
Data File : H24E067031.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Mar 2024 4:06 pm
Operator : PJG
Sample : TOX 500 Inst : ECD 8
Misc : mix[h]
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: Apr 09 14:35:47 2024
Quant Method : C:\msdchem\1\methods\8PEST030724.M
Quant Title : PEST 03/27/24 CHLOR 03/27/24 TOX 03/27/24 2400412
QLast Update : Thu Feb 29 13:55:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
		System Monitoring Compounds						
1)	S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
24)	S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)	T	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D.
3)	T	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	T	gamma-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	T	Beta-BHC	0.000	0.000	0	0	N.D. d	N.D.
6)	T	Delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	T	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
8)	T	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
9)	T	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
10)	T	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
11)	T	Y-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
12)	T	A-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
13)	T	4,4-DDE	0.000	0.000	0	0	N.D. d	N.D. d
14)	T	Endo-I	0.000	0.000	0	0	N.D. d	N.D. d
15)	T	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
16)	T	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
17)	T	4,4-DDD	0.000	0.000	0	0	N.D.	N.D. d
18)	T	Endo-II	0.000	0.000	0	0	N.D. d	N.D. d
19)	T	4,4-DDT	0.000	0.000	0	0	N.D. d	N.D. d
20)	T	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
21)	T	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
22)	T	End Sulf	0.000	0.000	0	0	N.D. d	N.D. d
23)	T	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
25)	L8	Chlordane{1}	0.000	0.000	0	0	N.D. d	N.D. d
26)	L8	Chlordane{2}	0.000	0.000	0	0	N.D. d	N.D. d
27)	L8	Chlordane{3}	0.000	0.000	0	0	N.D. d	N.D. d
28)	L8	Chlordane{4}	0.000	0.000	0	0	N.D. d	N.D. d
29)	L8	Chlordane{5}	0.000	0.000	0	0	N.D. d	N.D. d
		Sum Chlordane			0	0	N.D.	N.D.
Average		Chlordane					0.000	0.000
30)	H	Toxaphene	5.840	5.707	10748.4E6	8927.9E6	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

CHECKED BY:

APR 09 2024

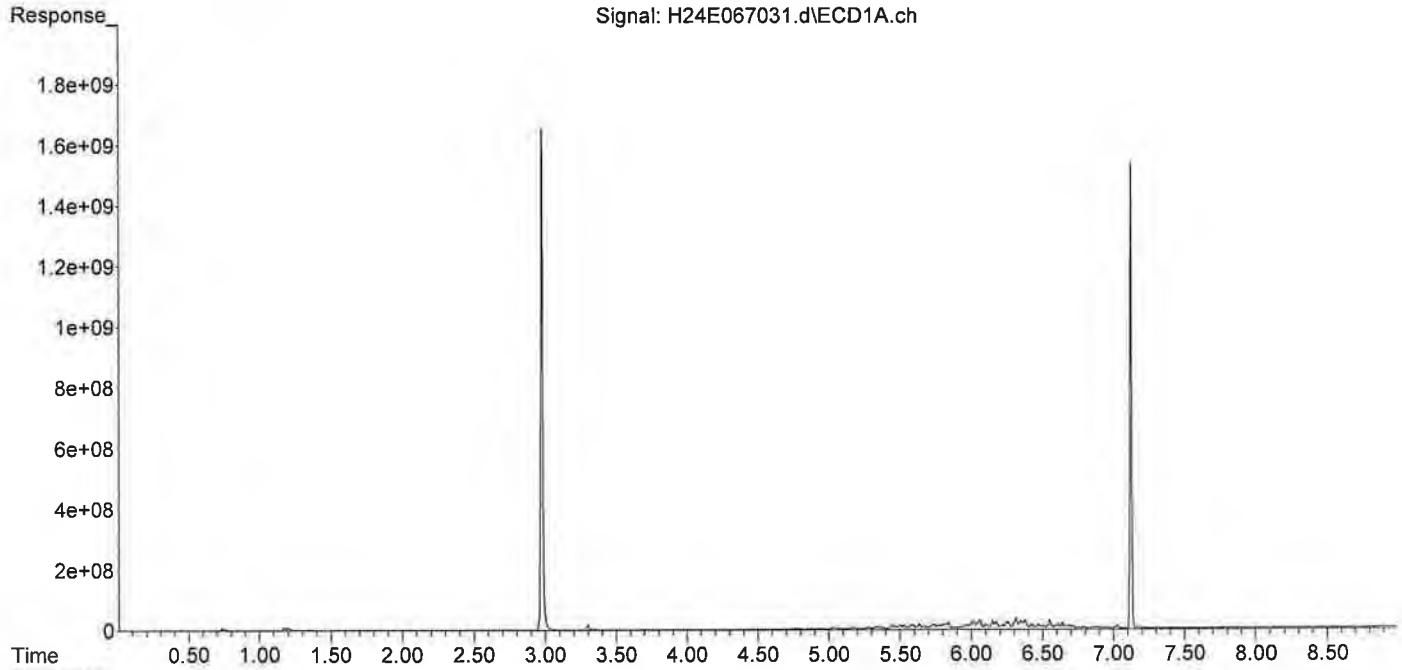
Todd Gionfridde

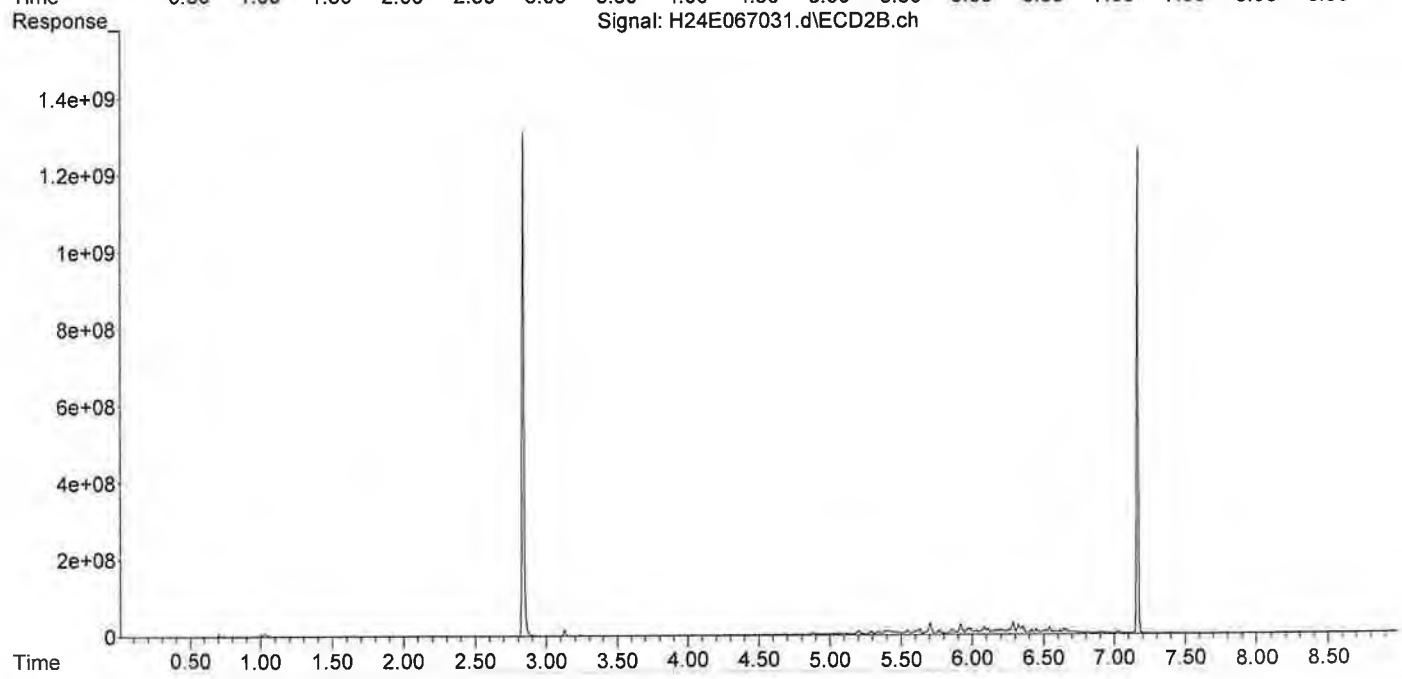
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\030724\
Data File : H24E067031.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Mar 2024 4:06 pm
Operator : PJG
Sample : TOX 500 Inst : ECD 8
Misc : mix[h]
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: Apr 09 14:35:47 2024
Quant Method : C:\msdchem\1\methods\8PEST030724.M
Quant Title : PEST 03/27/24 CHLOR 03/27/24 TOX 03/27/24 2400412
QLast Update : Thu Feb 29 13:55:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\030724\
Data File : H24E067032.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Mar 2024 4:18 pm
Operator : PJG
Sample : TOX 750 Inst : ECD 8
Misc : mix[h]
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: Apr 09 14:35:51 2024
Quant Method : C:\msdchem\1\methods\8PEST030724.M
Quant Title : PEST 03/27/24 CHLOR 03/27/24 TOX 03/27/24 2400412
QLast Update : Thu Feb 29 13:55:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
		System Monitoring Compounds						
1)	S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
24)	S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)	T	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D.
3)	T	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	T	gamma-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	T	Beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6)	T	Delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	T	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
8)	T	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
9)	T	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
10)	T	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
11)	T	Y-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
12)	T	A-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
13)	T	4,4-DDE	0.000	0.000	0	0	N.D. d	N.D. d
14)	T	Endo-I	0.000	0.000	0	0	N.D. d	N.D. d
15)	T	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
16)	T	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
17)	T	4,4-DDD	0.000	0.000	0	0	N.D.	N.D. d
18)	T	Endo-II	0.000	0.000	0	0	N.D. d	N.D. d
19)	T	4,4-DDT	0.000	0.000	0	0	N.D. d	N.D. d
20)	T	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
21)	T	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
22)	T	End Sulf	0.000	0.000	0	0	N.D. d	N.D. d
23)	T	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
25)	L8	Chlordane{1}	0.000	0.000	0	0	N.D. d	N.D. d
26)	L8	Chlordane{2}	0.000	0.000	0	0	N.D. d	N.D. d
27)	L8	Chlordane{3}	0.000	0.000	0	0	N.D. d	N.D. d
28)	L8	Chlordane{4}	0.000	0.000	0	0	N.D. d	N.D. d
29)	L8	Chlordane{5}	0.000	0.000	0	0	N.D. d	N.D. d
		Sum Chlordane			0	0	N.D.	N.D.
		Average Chlordane					0.000	0.000
30)	H	Toxaphene	5.840	5.707	16163.7E6	13107.8E6	NoCal	NoCal

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

CHECKED BY:

APR 09 2024

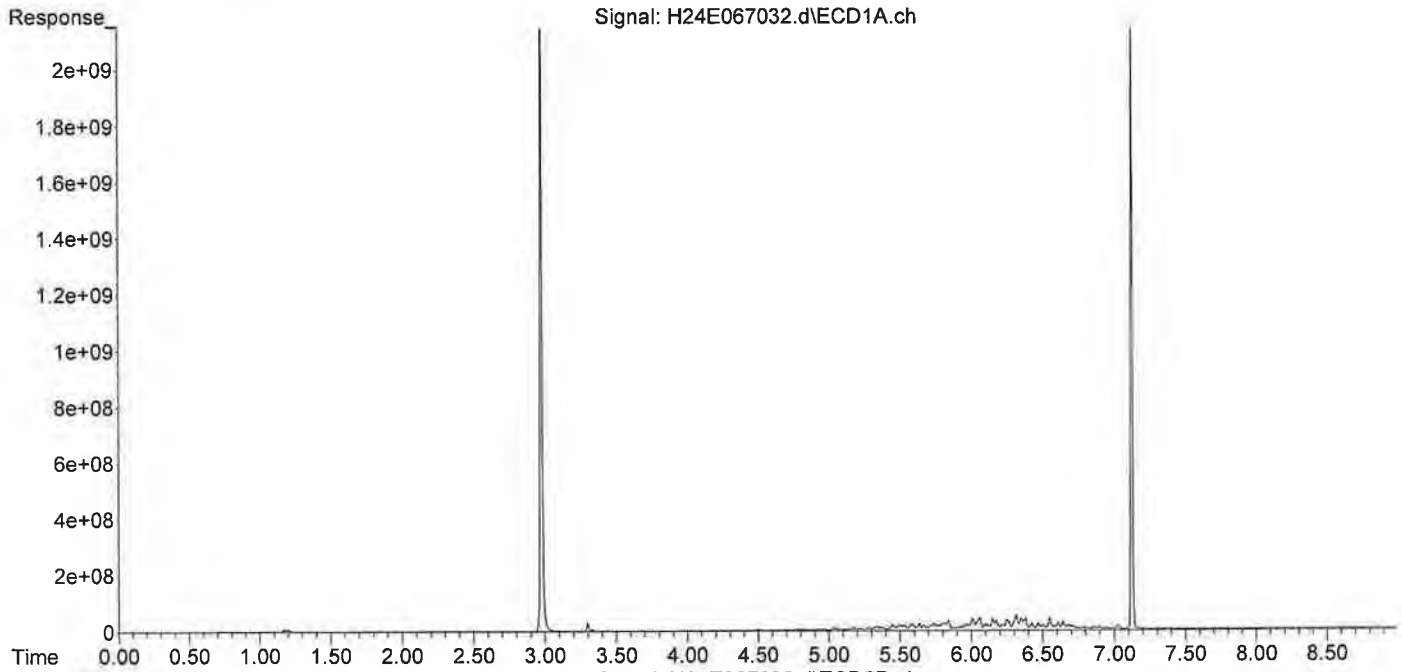
Todd Gionfriddo

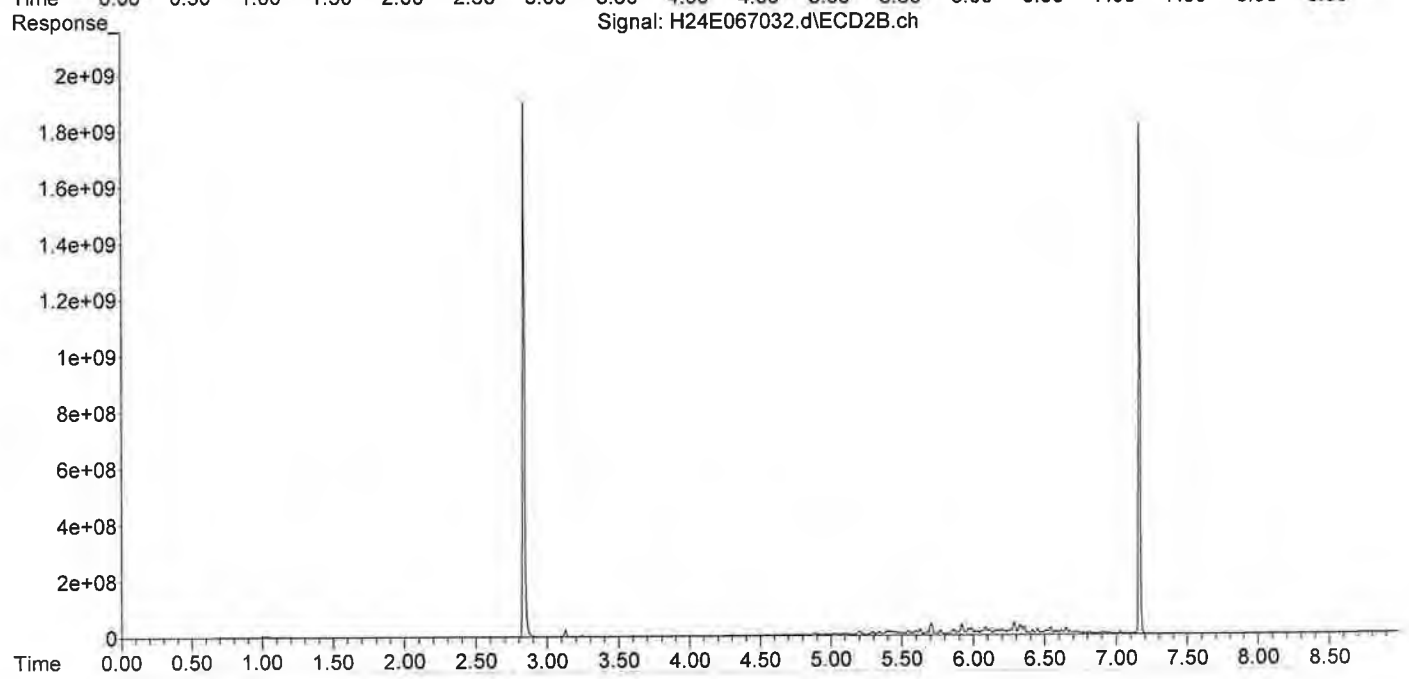
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\030724\
Data File : H24E067032.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Mar 2024 4:18 pm
Operator : PJG
Sample : TOX 750 Inst : ECD 8
Misc : mix[h]
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: Apr 09 14:35:51 2024
Quant Method : C:\msdchem\1\methods\8PEST030724.M
Quant Title : PEST 03/27/24 CHLOR 03/27/24 TOX 03/27/24 2400412
QLast Update : Thu Feb 29 13:55:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\030724\
Data File : H24E067033.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Mar 2024 4:30 pm
Operator : PJG
Sample : TOX ICV Inst : ECD 8
Misc : mix[h]
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: Apr 09 16:03:30 2024
Quant Method : C:\msdchem\1\methods\8PEST030724C.M
Quant Title : PEST 03/07/24 CHLOR 03/07/24 TOX 03/07/24 2400412
QLast Update : Tue Apr 09 14:48:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
		System Monitoring Compounds						
1)	S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
24)	S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)	T	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D.
3)	T	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	T	gamma-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	T	Beta-BHC	0.000	0.000	0	0	N.D.	N.D.
6)	T	Delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	T	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
8)	T	Aldrin	0.000	0.000	0	0	N.D. d	N.D.
9)	T	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
10)	T	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
11)	T	Y-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
12)	T	A-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
13)	T	4,4-DDE	0.000	0.000	0	0	N.D. d	N.D. d
14)	T	Endo-I	0.000	0.000	0	0	N.D. d	N.D. d
15)	T	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
16)	T	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
17)	T	4,4-DDD	0.000	0.000	0	0	N.D.	N.D. d
18)	T	Endo-II	0.000	0.000	0	0	N.D. d	N.D. d
19)	T	4,4-DDT	0.000	0.000	0	0	N.D. d	N.D. d
20)	T	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
21)	T	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
22)	T	End Sulf	0.000	0.000	0	0	N.D. d	N.D. d
23)	T	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
25)	L8	Chlordane{1}	0.000	0.000	0	0	N.D. d	N.D. d
26)	L8	Chlordane{2}	0.000	0.000	0	0	N.D. d	N.D. d
27)	L8	Chlordane{3}	0.000	0.000	0	0	N.D. d	N.D. d
28)	L8	Chlordane{4}	0.000	0.000	0	0	N.D. d	N.D. d
29)	L8	Chlordane{5}	0.000	0.000	0	0	N.D. d	N.D. d
		Sum Chlordane			0	0	N.D.	N.D.
		Average Chlordane					0.000	0.000
30)	H	Toxaphene	5.840	5.707	4589.3E6	4018.1E6	208.715	236.165

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

CHECKED BY:

APR 09 2024

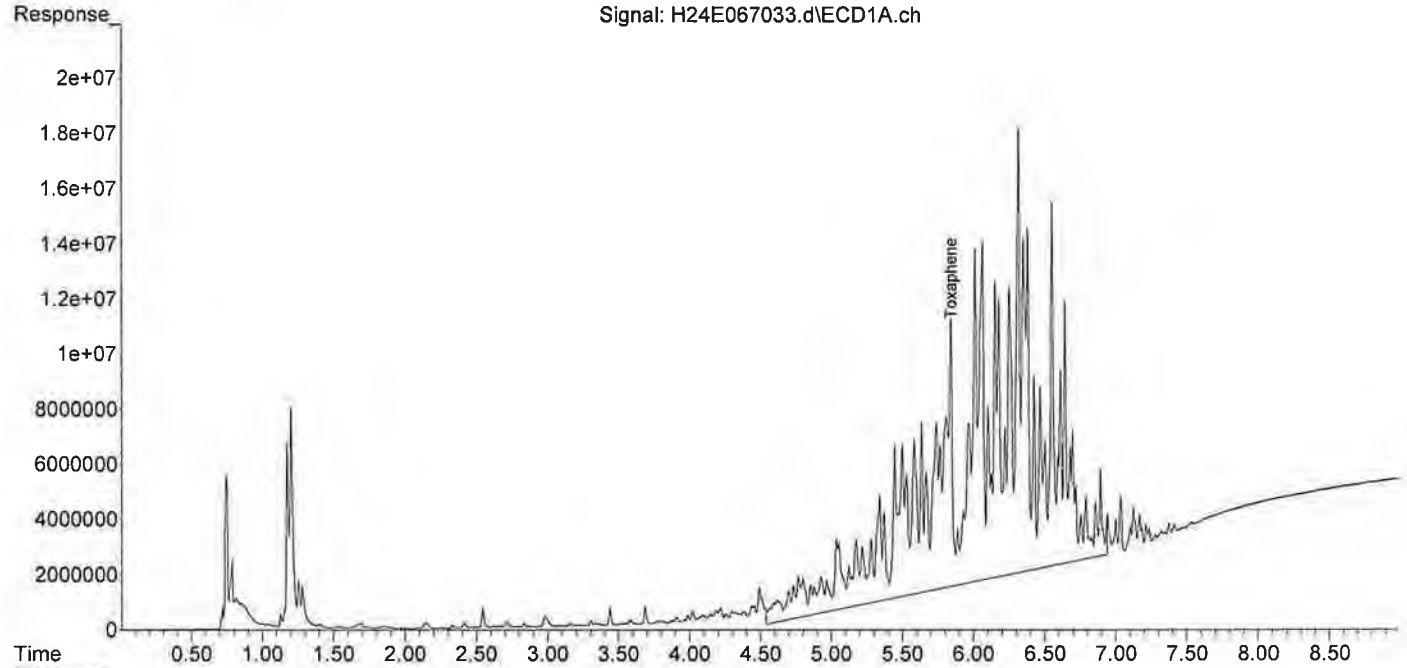
Todd Gionfriddo

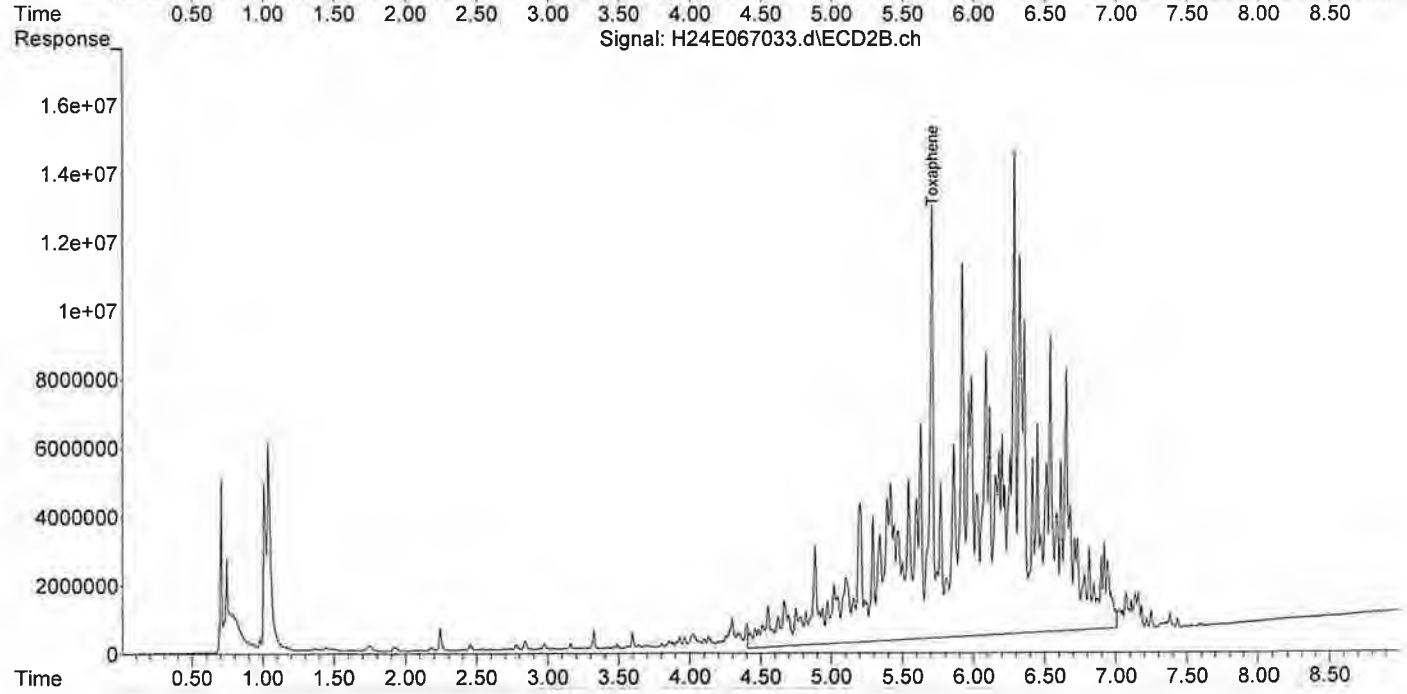
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\030724\
Data File : H24E067033.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Mar 2024 4:30 pm
Operator : PJG
Sample : TOX ICV Inst : ECD 8
Misc : mix[h]
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: Apr 09 16:03:30 2024
Quant Method : C:\msdchem\1\methods\8PEST030724C.M
Quant Title : PEST 03/07/24 CHLOR 03/07/24 TOX 03/07/24 2400412
QLast Update : Tue Apr 09 14:48:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





7 - FORM VII

INITIAL CALIBRATION VERIFICATION

SW-846 8081B

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ECD 8	Calibration:	2400412
Lab File ID:	H24E067026.d	Calibration Date:	03/07/24 00:00
Sequence:	S102970	Injection Date:	03/07/24
Lab Sample ID:	S102970-ICV1	Injection Time:	15:06

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)	
Chlordane	A	100	103					20	
Chlordane [2C]	A	100	98.7					20	
Chlordane (1)	A	100	104	1229018	1278000		4.0	20	
Chlordane (1) [2C]	A	100	104	908686.7	946797.2		4.2	20	
Chlordane (2)	A	100	121	1709954	2073000		21.2	20	*
Chlordane (2) [2C]	A	100	121	1255264	1518000		20.9	20	*
Chlordane (3)	A	100	107	1458486	1565000		7.3	20	
Chlordane (3) [2C]	A	100	105	1010530	1065000		5.4	20	
Chlordane (4)	A	100	93.8	4889263	4587000		-6.2	20	
Chlordane (4) [2C]	A	100	59.1	3740990	2212000		-40.9	20	*
Chlordane (5)	A	100	91.0	1266318	1153000		-8.9	20	
Chlordane (5) [2C]	A	100	104	2601799	2702000		3.9	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

7 - FORM VII

INITIAL CALIBRATION VERIFICATION

SW-846 8081B

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ECD 8	Calibration:	2400412
Lab File ID:	H24E067033.d	Calibration Date:	03/07/24 00:00
Sequence:	S102971	Injection Date:	03/07/24
Lab Sample ID:	S102971-ICV1	Injection Time:	16:30

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Toxaphene	A	250	209	2.198833E+07	1.83572E+07		-16.5	20
Toxaphene [2C]	A	250	236	1.701383E+07	1.60724E+07		-5.5	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

7 - FORM VII

INITIAL CALIBRATION VERIFICATION

SW-846 8081B

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ECD 8	Calibration:	2400548
Lab File ID:	H24E127018.d	Calibration Date:	05/14/24 00:00
Sequence:	S104660	Injection Date:	05/14/24
Lab Sample ID:	S104660-ICV1	Injection Time:	12:17

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
alpha-Chlordane	A	100	108	3.162921E+07	3.4263E+07		8.3	20
alpha-Chlordane [2C]	A	100	112	2.290002E+07	2.5545E+07		11.6	20
gamma-Chlordane	A	100	104	3.406283E+07	3.5592E+07		4.5	20
gamma-Chlordane [2C]	A	100	112	2.380577E+07	2.6694E+07		12.1	20
Aldrin	A	100	108	3.521184E+07	3.8105E+07		8.2	20
Aldrin [2C]	A	100	112	2.565849E+07	2.8613E+07		11.5	20
alpha-BHC	A	100	117	4.094824E+07	4.7743E+07		16.6	20
alpha-BHC [2C]	A	100	119	2.860494E+07	3.4139E+07		19.3	20
beta-BHC	A	100	104	1.603056E+07	1.6717E+07		4.3	20
beta-BHC [2C]	A	100	109	1.131715E+07	1.2283E+07		8.5	20
delta-BHC	A	100	115	3.530887E+07	4.0754E+07		15.4	20
delta-BHC [2C]	A	100	119	2.563254E+07	3.0622E+07		19.5	20
gamma-BHC (Lindane)	A	100	112	3.755871E+07	4.2024E+07		11.9	20
gamma-BHC (Lindane) [2C]	A	100	115	2.669666E+07	3.0771E+07		15.3	20
4,4'-DDD	A	100	113	2.56168E+07	2.8821E+07		12.5	20
4,4'-DDD [2C]	A	100	116	1.864581E+07	2.1551E+07		15.6	20
4,4'-DDE	A	100	111	3.103648E+07	3.4383E+07		10.8	20
4,4'-DDE [2C]	A	100	114	2.284403E+07	2.6061E+07		14.1	20
4,4'-DDT	A	100	111	2.667648E+07	2.9625E+07		11.1	20
4,4'-DDT [2C]	A	100	115	1.933185E+07	2.218E+07		14.7	20
Dieldrin	A	100	108	3.308541E+07	3.5764E+07		8.1	20
Dieldrin [2C]	A	100	114	2.361767E+07	2.6872E+07		13.8	20
Endosulfan I	A	100	108	2.923878E+07	3.1537E+07		7.9	20
Endosulfan I [2C]	A	100	111	2.118484E+07	2.3615E+07		11.5	20
Endosulfan II	A	100	109	2.753683E+07	3.0026E+07		9.0	20
Endosulfan II [2C]	A	100	112	1.996753E+07	2.2421E+07		12.3	20
Endosulfan Sulfate	A	100	109	2.557619E+07	2.7818E+07		8.8	20
Endosulfan Sulfate [2C]	A	100	112	1.881625E+07	2.1121E+07		12.2	20
Endrin	A	100	109	2.780409E+07	3.0438E+07		9.5	20
Endrin [2C]	A	100	113	2.002979E+07	2.2713E+07		13.4	20

7 - FORM VII

INITIAL CALIBRATION VERIFICATION

SW-846 8081B

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ECD 8	Calibration:	2400548
Lab File ID:	H24E127018.d	Calibration Date:	05/14/24 00:00
Sequence:	S104660	Injection Date:	05/14/24
Lab Sample ID:	S104660-ICV1	Injection Time:	12:17

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Endrin Aldehyde	A	100	106	2.099927E+07	2.2266E+07		6.0	20
Endrin Aldehyde [2C]	A	100	109	1.536244E+07	1.6772E+07		9.2	20
Endrin Ketone	A	100	106	3.036056E+07	3.2304E+07		6.4	20
Endrin Ketone [2C]	A	100	110	2.1827E+07	2.3922E+07		9.6	20
Heptachlor	A	100	109	3.600804E+07	3.9234E+07		9.0	20
Heptachlor [2C]	A	100	113	2.571343E+07	2.9174E+07		13.5	20
Heptachlor Epoxide	A	100	107	3.167608E+07	3.3753E+07		6.6	20
Heptachlor Epoxide [2C]	A	100	110	2.30584E+07	2.5453E+07		10.4	20
Methoxychlor	A	100	104	1.399924E+07	1.462E+07		4.4	20
Methoxychlor [2C]	A	100	107	1.036481E+07	1.1114E+07		7.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8081B

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ECD 8	Calibration:	2400548
Lab File ID:	H24E127007.d	Calibration Date:	05/14/24 00:00
Sequence:	S104592	Injection Date:	05/14/24
Lab Sample ID:	S104592-CCV2	Injection Time:	10:06

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Toxaphene	A	250	258	2.198833E+07	2.27116E+07		3.3	20
Toxaphene [2C]	A	250	269	1.701383E+07	1.83096E+07		7.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127007.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 10:06 am
Operator : PJG
Sample : TOX 250 01/17/24 24A0551 Inst : ECD 8
Misc : mix[h]
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:11:22 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
		System Monitoring Compounds						
1)	S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
24)	S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)	T	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
3)	T	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	T	gamma-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	T	Beta-BHC	0.000	0.000	0	0	N.D.	N.D.
6)	T	Delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	T	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
8)	T	Aldrin	0.000	0.000	0	0	N.D. d	N.D.
9)	T	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
10)	T	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
11)	T	Y-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
12)	T	A-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
13)	T	4,4-DDE	0.000	0.000	0	0	N.D. d	N.D. d
14)	T	Endo-I	0.000	0.000	0	0	N.D. d	N.D. d
15)	T	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
16)	T	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
17)	T	4,4-DDD	0.000	0.000	0	0	N.D. d	N.D.
18)	T	Endo-II	0.000	0.000	0	0	N.D. d	N.D. d
19)	T	4,4-DDT	0.000	0.000	0	0	N.D. d	N.D. d
20)	T	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
21)	T	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
22)	T	End Sulf	0.000	0.000	0	0	N.D. d	N.D. d
23)	T	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
25)	L8	Chlordane{1}	0.000	0.000	0	0	N.D. d	N.D. d
26)	L8	Chlordane{2}	0.000	0.000	0	0	N.D. d	N.D. d
27)	L8	Chlordane{3}	0.000	0.000	0	0	N.D. d	N.D. d
28)	L8	Chlordane{4}	0.000	0.000	0	0	N.D. d	N.D. d
29)	L8	Chlordane{5}	0.000	0.000	0	0	N.D. d	N.D. d
		Sum Chlordane			0	0	N.D.	N.D.
Average		Chlordane					0.000	0.000
30)	H	Toxaphene	5.751	5.623	5677.9E6	4577.4E6	258.222	269.038

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

CHECKED BY:

MAY 15 2024

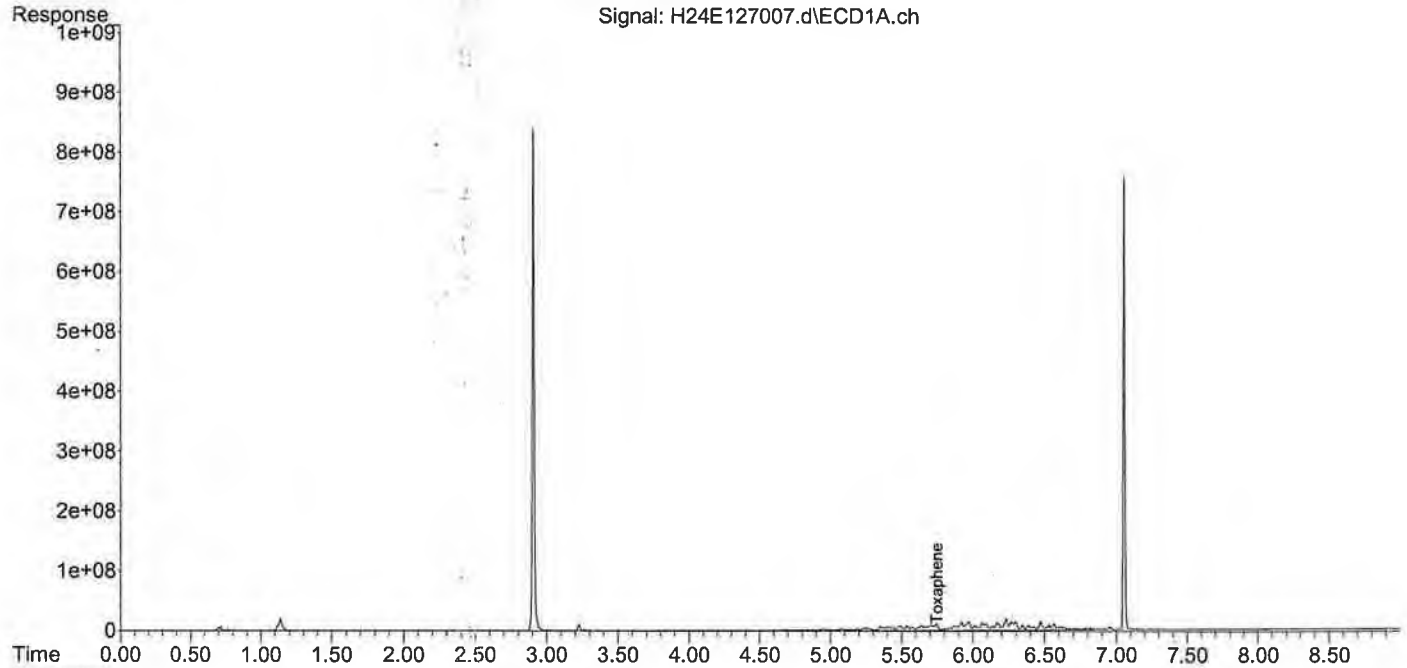
Todd Gionfriddo

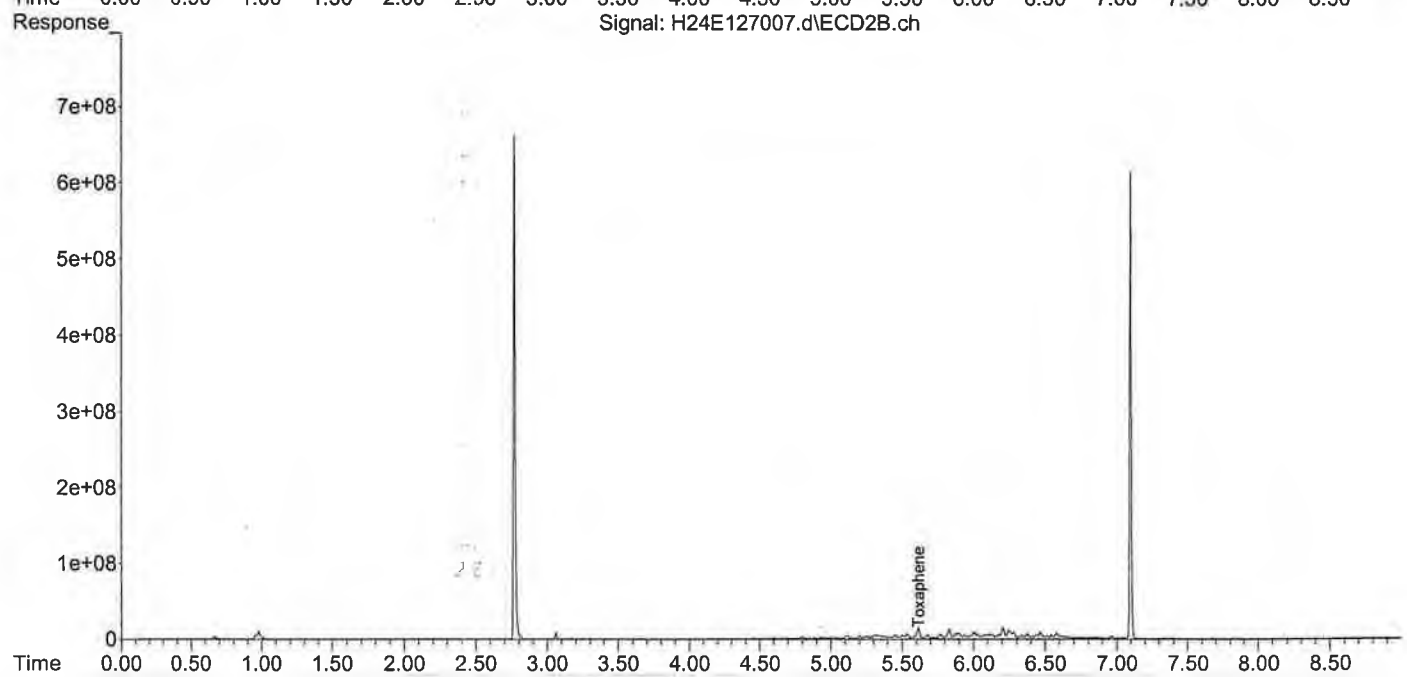
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127007.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 10:06 am
Operator : PJG
Sample : TOX 250 01/17/24 24A0551 Inst : ECD 8
Misc : mix[h]
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:11:22 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8081B

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ECD 8	Calibration:	2400548
Lab File ID:	H24E127039.d	Calibration Date:	05/14/24 00:00
Sequence:	S104592	Injection Date:	05/14/24
Lab Sample ID:	S104592-CCV3	Injection Time:	16:28

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Toxaphene	A	500	520	2.198833E+07	2.2851E+07		3.9	20
Toxaphene [2C]	A	500	500	1.701383E+07	1.70076E+07		-0.04	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127039.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 4:28 pm
Operator : PJG
Sample : TOX 500 Inst : ECD 8
Misc : mix[h]
ALS Vial : 39 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:12:38 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
		System Monitoring Compounds						
1)	S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
24)	S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)	T	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
3)	T	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	T	gamma-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	T	Beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6)	T	Delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	T	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
8)	T	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
9)	T	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
10)	T	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
11)	T	Y-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
12)	T	A-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
13)	T	4,4-DDE	0.000	0.000	0	0	N.D. d	N.D. d
14)	T	Endo-I	0.000	0.000	0	0	N.D. d	N.D. d
15)	T	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
16)	T	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
17)	T	4,4-DDD	0.000	0.000	0	0	N.D. d	N.D.
18)	T	Endo-II	0.000	0.000	0	0	N.D. d	N.D. d
19)	T	4,4-DDT	0.000	0.000	0	0	N.D. d	N.D. d
20)	T	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
21)	T	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
22)	T	End Sulf	0.000	0.000	0	0	N.D. d	N.D. d
23)	T	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
25)	L8	Chlordane{1}	0.000	0.000	0	0	N.D. d	N.D. d
26)	L8	Chlordane{2}	0.000	0.000	0	0	N.D. d	N.D. d
27)	L8	Chlordane{3}	0.000	0.000	0	0	N.D. d	N.D. d
28)	L8	Chlordane{4}	0.000	0.000	0	0	N.D. d	N.D. d
29)	L8	Chlordane{5}	0.000	0.000	0	0	N.D. d	N.D. d
		Sum Chlordane			0	0	N.D.	N.D.
Average		Chlordane					0.000	0.000
30)	H	Toxaphene	5.751	5.623	11425.5E6	8503.8E6	519.615	499.811

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

CHECKED BY:

MAY 15 2024

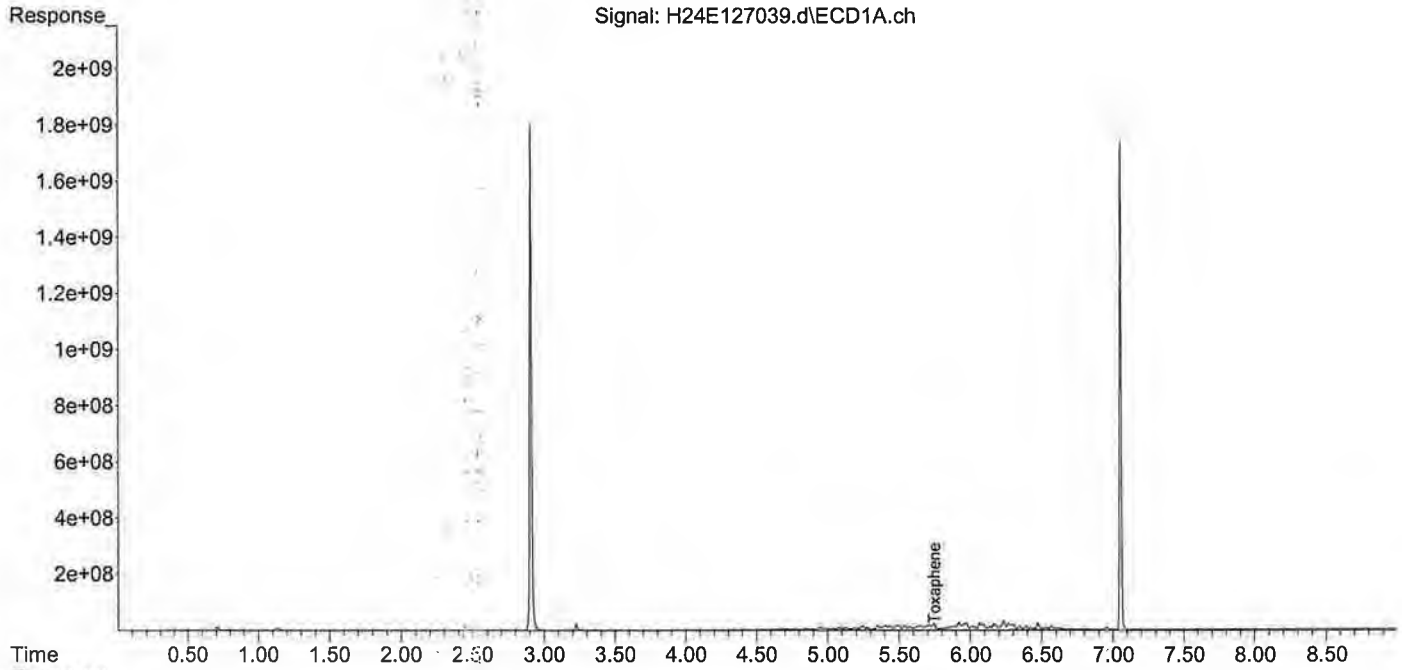
Todd Gionfriddo

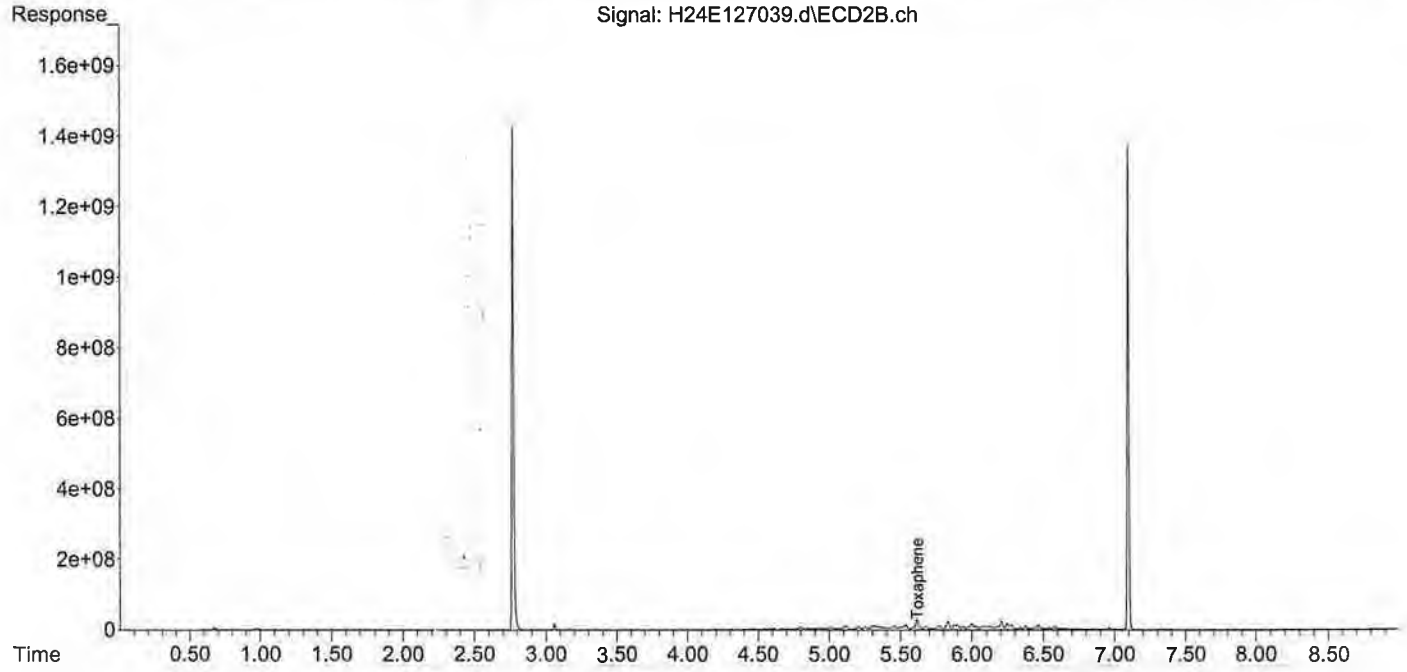
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127039.d
Signal(s) : Signal #1: ECD1A.ch, Signal #2: ECD2B.ch
Acq On : 14 May 2024 4:28 pm
Operator : PJG
Sample : TOX 500 Inst : ECD 8
Misc : mix[h]
ALS Vial : 39 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:12:38 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8081B

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ECD 8	Calibration:	2400548
Lab File ID:	H24E127041.d	Calibration Date:	05/14/24 00:00
Sequence:	S104592	Injection Date:	05/14/24
Lab Sample ID:	S104592-CCV5	Injection Time:	16:52

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
alpha-Chlordane	A	100	104	3.162921E+07	3.2799E+07		3.7	20	
alpha-Chlordane [2C]	A	100	108	2.290002E+07	2.464E+07		7.6	20	
gamma-Chlordane	A	100	101	3.406283E+07	3.4568E+07		1.5	20	
gamma-Chlordane [2C]	A	100	109	2.380577E+07	2.5917E+07		8.9	20	
Aldrin	A	100	106	3.521184E+07	3.7244E+07		5.8	20	
Aldrin [2C]	A	100	109	2.565849E+07	2.7961E+07		9.0	20	
alpha-BHC	A	100	109	4.094824E+07	4.4719E+07		9.2	20	
alpha-BHC [2C]	A	100	113	2.860494E+07	3.2398E+07		13.3	20	
beta-BHC	A	100	99.9	1.603056E+07	1.602E+07		-0.07	20	
beta-BHC [2C]	A	100	104	1.131715E+07	1.1772E+07		4.0	20	
delta-BHC	A	100	112	3.530887E+07	3.9442E+07		11.7	20	
delta-BHC [2C]	A	100	114	2.563254E+07	2.9142E+07		13.7	20	
gamma-BHC (Lindane)	A	100	107	3.755871E+07	4.0264E+07		7.2	20	
gamma-BHC (Lindane) [2C]	A	100	111	2.669666E+07	2.9502E+07		10.5	20	
4,4'-DDD	A	100	117	2.56168E+07	2.9967E+07		17.0	20	
4,4'-DDD [2C]	A	100	121	1.864581E+07	2.2636E+07		21.4	20	*
4,4'-DDE	A	100	108	3.103648E+07	3.366E+07		8.5	20	
4,4'-DDE [2C]	A	100	112	2.284403E+07	2.5527E+07		11.7	20	
4,4'-DDT	A	100	96.1	2.667648E+07	2.5645E+07		-3.9	20	
4,4'-DDT [2C]	A	100	97.2	1.933185E+07	1.8782E+07		-2.8	20	
Dieldrin	A	100	103	3.308541E+07	3.4229E+07		3.5	20	
Dieldrin [2C]	A	100	109	2.361767E+07	2.5803E+07		9.3	20	
Endosulfan I	A	100	103	2.923878E+07	3.0132E+07		3.1	20	
Endosulfan I [2C]	A	100	107	2.118484E+07	2.2721E+07		7.3	20	
Endosulfan II	A	100	104	2.753683E+07	2.8531E+07		3.6	20	
Endosulfan II [2C]	A	100	109	1.996753E+07	2.1696E+07		8.7	20	
Endosulfan Sulfate	A	100	104	2.557619E+07	2.6667E+07		4.3	20	
Endosulfan Sulfate [2C]	A	100	108	1.881625E+07	2.0386E+07		8.3	20	
Endrin	A	100	108	2.780409E+07	3.0138E+07		8.4	20	
Endrin [2C]	A	100	113	2.002979E+07	2.2613E+07		12.9	20	

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8081B

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ECD 8	Calibration:	2400548
Lab File ID:	H24E127041.d	Calibration Date:	05/14/24 00:00
Sequence:	S104592	Injection Date:	05/14/24
Lab Sample ID:	S104592-CCV5	Injection Time:	16:52

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Endrin Aldehyde	A	100	93.8	2.099927E+07	1.9704E+07		-6.2	20
Endrin Aldehyde [2C]	A	100	97.5	1.536244E+07	1.4976E+07		-2.5	20
Endrin Ketone	A	100	103	3.036056E+07	3.1385E+07		3.4	20
Endrin Ketone [2C]	A	100	107	2.1827E+07	2.3412E+07		7.3	20
Heptachlor	A	100	102	3.600804E+07	3.6803E+07		2.2	20
Heptachlor [2C]	A	100	106	2.571343E+07	2.7314E+07		6.2	20
Heptachlor Epoxide	A	100	103	3.167608E+07	3.2552E+07		2.8	20
Heptachlor Epoxide [2C]	A	100	106	2.30584E+07	2.4429E+07		5.9	20
Methoxychlor	A	100	89.9	1.399924E+07	1.2584E+07		-10.1	20
Methoxychlor [2C]	A	100	91.9	1.036481E+07	9522000		-8.1	20
Decachlorobiphenyl	A	100	99.7	2.219933E+07	2.2134E+07		-0.3	
Decachlorobiphenyl [2C]	A	100	105	1.58767E+07	1.6605E+07		4.6	
Tetrachloro-m-xylene	A	100	104	2.7464E+07	2.8588E+07		4.1	
Tetrachloro-m-xylene [2C]	A	100	106	2.000783E+07	2.1142E+07		5.7	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127041.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 4:52 pm
Operator : PJG
Sample : PEST 100 Inst : ECD 8
Misc : mix[s,t]
ALS Vial : 41 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:08:31 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

CHECKED BY:
MAY 15 2024
Todd Glonfridda

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	S	Tetrachloro-m-xylene	27.463	28.588 E6	-4.1	100	0.00
2	T	Hexachlorobenzene	30.139	31.058 E6	-3.0	100	0.00
3	T	alpha-BHC	40.950	44.719 E6	-9.2	100	0.00
4	T	gamma-BHC	37.559	40.264 E6	-7.2	99	0.00
5	T	Beta-BHC	16.030	16.020 E6	0.1	100	0.00
6	T	Delta-BHC	35.309	39.442 E6	-11.7	102	0.00
7	T	Heptachlor	36.007	36.803 E6	-2.2	97	0.00
8	T	Aldrin	35.212	37.244 E6	-5.8	99	0.00
9	T	Alachlor	4.247	4.205 E6	1.0	98	0.00
10	T	Heptachlor Epoxide	31.675	32.552 E6	-2.8	99	0.00
11	T	Y-Chlordane	34.063	34.568 E6	-1.5	99	0.00
12	T	A-Chlordane	31.630	32.799 E6	-3.7	99	0.00
13	T	4,4-DDE	31.036	33.660 E6	-8.5	100	0.00
14	T	Endo-I	29.240	30.132 E6	-3.1	99	0.00
15	T	Dieldrin	33.087	34.229 E6	-3.5	99	0.00
16	T	Endrin	27.806	30.138 E6	-8.4	103	0.00
17	T	4,4-DDD	25.617	29.967 E6	-17.0#	108	0.00
18	T	Endo-II	27.537	28.531 E6	-3.6	99	0.00
19	T	4,4-DDT	26.676	25.645 E6	3.9	88	0.00
20	T	Endrin Aldehyde	20.999	19.704 E6	6.2	97	0.00
21	T	Methoxychlor	14.000	12.584 E6	10.1	89	0.00
22	T	End Sulf	25.576	26.667 E6	-4.3	100	0.00
23	T	Endrin Ketone	30.361	31.385 E6	-3.4	98	0.00
24	S	Decachlorobiphenyl	22.199	22.134 E6	0.3	99	0.00

DDD [ic] ↑ RCP

Signal #2

1	S	Tetrachloro-m-xylene	20.007	21.142 E6	-5.7	99	0.00
2	T	Hexachlorobenzene	22.199	23.154 E6	-4.3	99	0.00
3	T	alpha-BHC	28.604	32.398 E6	-13.3	100	0.00
4	T	gamma-BHC	26.698	29.502 E6	-10.5	99	0.00
5	T	Beta-BHC	11.316	11.772 E6	-4.0	100	0.00
6	T	Delta-BHC	25.633	29.142 E6	-13.7	101	0.00
7	T	Heptachlor	25.713	27.314 E6	-6.2	97	0.00
8	T	Aldrin	25.659	27.961 E6	-9.0	99	0.00
9	T	Alachlor	2.936	2.928 E6	0.3	98	0.00
10	T	Heptachlor Epoxide	23.057	24.429 E6	-6.0	99	0.00
11	T	Y-Chlordane	23.804	25.917 E6	-8.9	99	0.00
12	T	A-Chlordane	22.900	24.640 E6	-7.6	99	0.00
13	T	4,4-DDE	22.846	25.527 E6	-11.7	100	0.00
14	T	Endo-I	21.185	22.721 E6	-7.3	100	0.00
15	T	Dieldrin	23.618	25.803 E6	-9.3	100	0.00
16	T	Endrin	20.031	22.613 E6	-12.9	104	0.00
17	T	4,4-DDD	18.645	22.636 E6	-21.4#	109	0.00

DDD [2c] ↑ RCP CCAM

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127041.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 4:52 pm
Operator : PJG
Sample : PEST 100 Inst : ECD 8
Misc : mix[s,t]
ALS Vial : 41 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:08:31 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
18	T	Endo-II	19.967	21.696 E6	-8.7	101	0.00
19	T	4,4-DDT	19.332	18.782 E6	2.8	87	0.00
20	T	Endrin Aldehyde	15.362	14.976 E6	2.5	98	0.00
21	T	Methoxychlor	10.365	9.522 E6	8.1	88	0.00
22	T	End Sulf	18.816	20.386 E6	-8.3	101	0.00
23	T	Endrin Ketone	21.826	23.412 E6	-7.3	98	0.00
24	S	Decachlorobiphenyl	15.876	16.605 E6	-4.6	98	0.00

Evaluate Continuing Calibration Report - Not Founds

25	L8	Chlordane{1}	1.229	0.000 E6	100.0#	0#	0.00
26	L8	Chlordane{2}	1.710	0.000 E6	100.0#	0#	0.00
27	L8	Chlordane{3}	1.458	0.000 E6	100.0#	0#	0.00
28	L8	Chlordane{4}	4.889	0.000 E6	100.0#	0#	0.00
29	L8	Chlordane{5}	1.266	0.000 E6	100.0#	0#	0.00
30	H	Toxaphene	21.988	0.000 E6	100.0#	0#	0.00
Signal #2							
25	L8	Chlordane{1}	0.909	0.000 E6	100.0#	0#	0.00
26	L8	Chlordane{2}	1.255	0.000 E6	100.0#	0#	0.00
27	L8	Chlordane{3}	1.010	0.000 E6	100.0#	0#	-4.26#
28	L8	Chlordane{4}	3.741	0.000 E6	100.0#	0#	-0.02
29	L8	Chlordane{5}	2.602	0.000 E6	100.0#	0#	0.00
30	H	Toxaphene	17.014	0.000 E6	100.0#	0#	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127041.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 4:52 pm
Operator : PJG
Sample : PEST 100 Inst : ECD 8
Misc : mix[s,t]
ALS Vial : 41 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:08:31 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
		System Monitoring Compounds						
1)	S	Tetrachlo...	2.906	2.768	2858.8E6	2114.2E6	104.099	105.673
24)	S	Decachlor...	7.055	7.097	2213.4E6	1660.5E6	99.709	104.591
		Target Compounds						
2)	T	Hexachlor...	3.225	3.137	3105.8E6	2315.4E6	103.050	104.300
3)	T	alpha-BHC	3.363	3.251	4471.9E6	3239.8E6	109.203	113.262
4)	T	gamma-BHC	3.623	3.531	4026.4E6	2950.2E6	107.202	110.502
5)	T	Beta-BHC	3.692	3.598	1602.0E6	1177.2E6	99.937	104.027
6)	T	Delta-BHC	3.838	3.829	3944.2E6	2914.2E6	111.704	113.688
7)	T	Heptachlor	4.011	3.878	3680.3E6	2731.4E6	102.211	106.228
8)	T	Aldrin	4.258	4.133	3724.4E6	2796.1E6	105.769	108.973
9)	T	Alachlor	4.375	4.063	420.5E6	292.8E6	99.001	99.721
10)	T	Heptachlo...	4.755	4.592	3255.2E6	2442.9E6	102.770	105.953
11)	T	Y-Chlordane	4.855	4.743	3456.8E6	2591.7E6	101.483	108.875
12)	T	A-Chlordane	4.965	4.861	3279.9E6	2464.0E6	103.697	107.599
13)	T	4,4-DDE	5.025	5.004	3366.0E6	2552.7E6	108.455	111.736
14)	T	Endo-I	5.078	4.905	3013.2E6	2272.1E6	103.050	107.250
15)	T	Dieldrin	5.275	5.126	3422.9E6	2580.3E6	103.454	109.252
16)	T	Endrin	5.467	5.372	3013.8E6	2261.3E6	108.386	112.893
17)	T	4,4-DDD	5.517	5.473	2996.7E6	2263.6E6	116.984	121.402
18)	T	Endo-II	5.651	5.545	2853.1E6	2169.6E6	103.611	108.662
19)	T	4,4-DDT	5.747	5.730	2564.5E6	1878.2E6	96.135	97.152
20)	T	Endrin Al...	5.990	5.822	1970.4E6	1497.6E6	93.831	97.483
21)	T	Methoxychlor	6.119	6.250	1258.4E6	952.2E6	89.889	91.875
22)	T	End Sulf	6.303	6.037	2666.7E6	2038.6E6	104.266	108.345
23)	T	Endrin Ke...	6.487	6.400	3138.5E6	2341.2E6	103.374	107.267
25)	L8	Chlordane{1}	0.000	0.000	0	0	N.D. d	N.D. d
26)	L8	Chlordane{2}	0.000	0.000	0	0	N.D. d	N.D. d
27)	L8	Chlordane{3}	0.000	0.000	0	0	N.D. d	N.D.
28)	L8	Chlordane{4}	0.000	0.000	0	0	N.D. d	N.D. d
29)	L8	Chlordane{5}	0.000	0.000	0	0	N.D. d	N.D. d
		Sum Chlordane			0	0	N.D.	N.D.
Average		Chlordane					0.000	0.000
30)	H	Toxaphene	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int

CHECKED BY:

MAY 15 2024

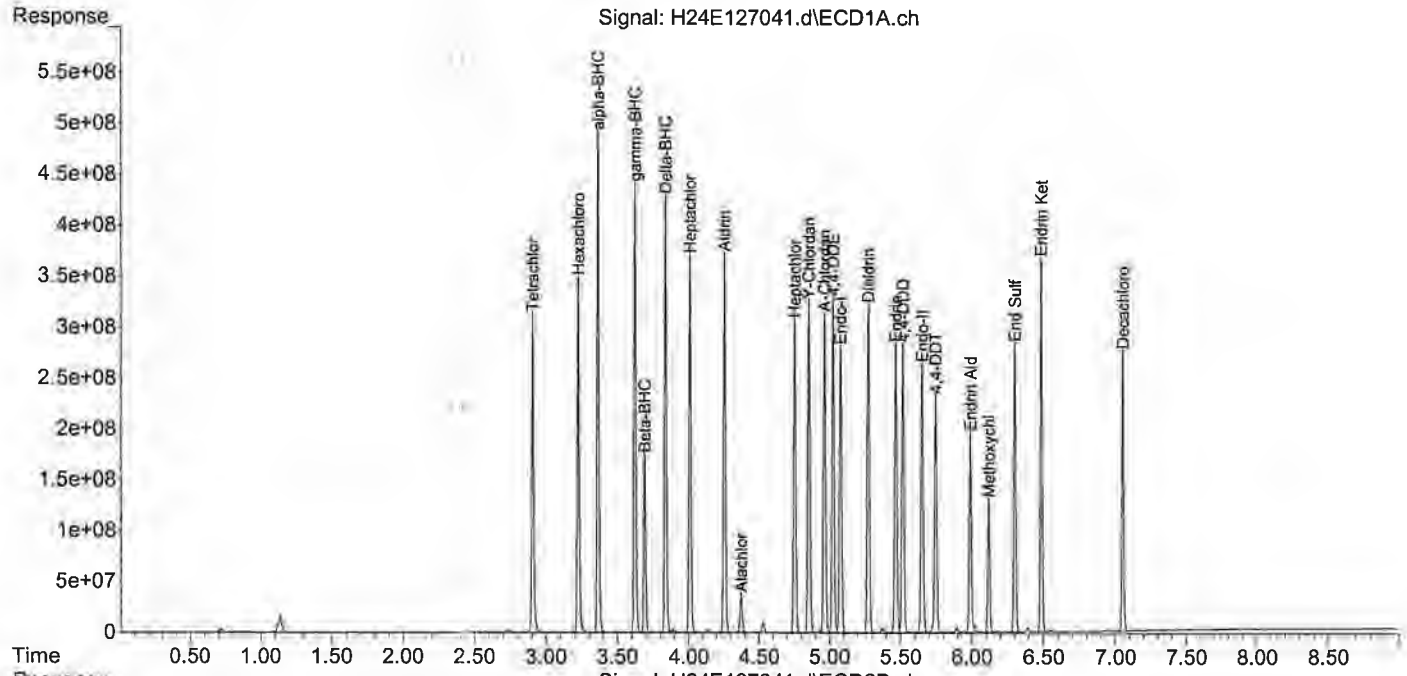
Todd Glonfridde

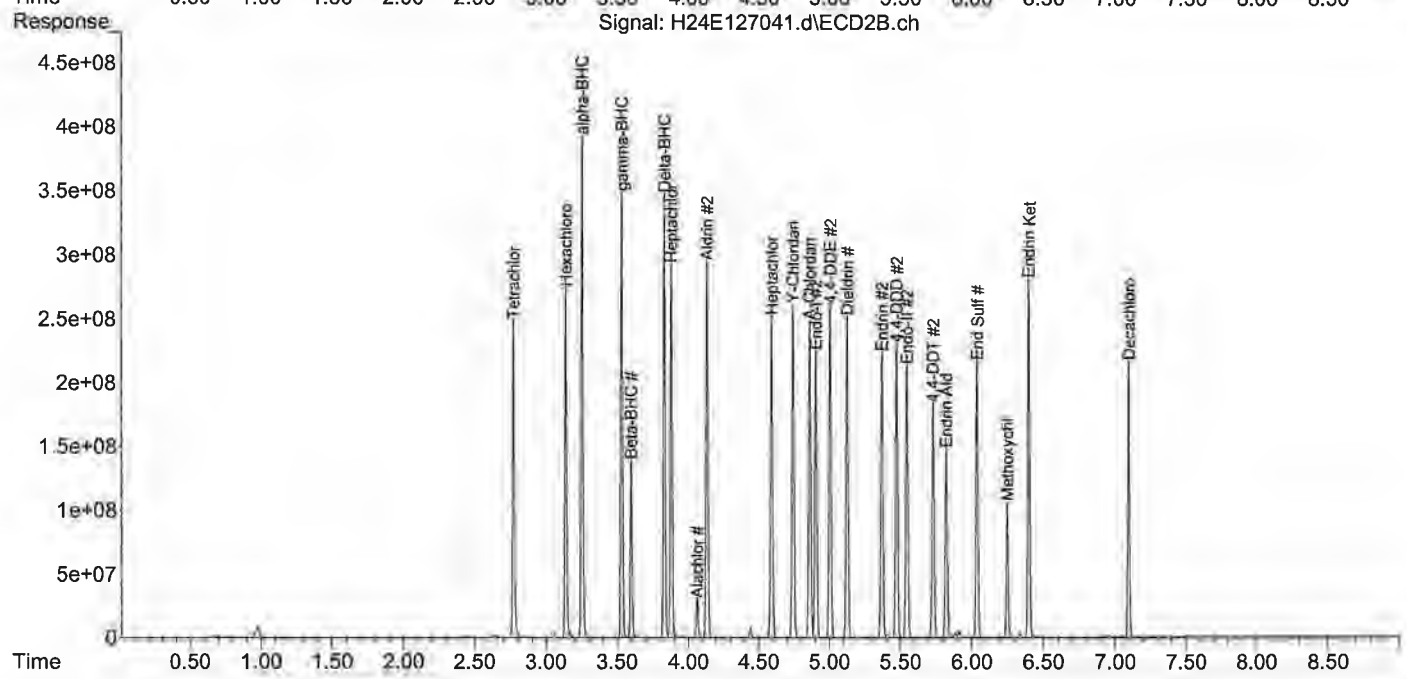
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127041.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 4:52 pm
Operator : PJG
Sample : PEST 100 Inst : ECD 8
Misc : mix[s,t]
ALS Vial : 41 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:08:31 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8081B

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ECD 8	Calibration:	2400548
Lab File ID:	H24E127056.d	Calibration Date:	05/14/24 00:00
Sequence:	S104592	Injection Date:	05/14/24
Lab Sample ID:	S104592-CCV6	Injection Time:	19:52

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Toxaphene	A	250	249	2.198833E+07	2.18788E+07		-0.5	20
Toxaphene [2C]	A	250	237	1.701383E+07	1.60976E+07		-5.4	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127056.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 7:52 pm
Operator : PJG
Sample : TOX 250 Inst : ECD 8
Misc : mix[h]
ALS Vial : 56 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:12:58 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
		System Monitoring Compounds						
1)	S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
24)	S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
		Target Compounds						
2)	T	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
3)	T	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	T	gamma-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	T	Beta-BHC	0.000	0.000	0	0	N.D. d	N.D.
6)	T	Delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	T	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
8)	T	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
9)	T	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
10)	T	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
11)	T	Y-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
12)	T	A-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
13)	T	4,4-DDE	0.000	0.000	0	0	N.D. d	N.D. d
14)	T	Endo-I	0.000	0.000	0	0	N.D. d	N.D. d
15)	T	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
16)	T	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
17)	T	4,4-DDD	0.000	0.000	0	0	N.D. d	N.D.
18)	T	Endo-II	0.000	0.000	0	0	N.D. d	N.D. d
19)	T	4,4-DDT	0.000	0.000	0	0	N.D. d	N.D. d
20)	T	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
21)	T	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
22)	T	End Sulf	0.000	0.000	0	0	N.D. d	N.D. d
23)	T	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
25)	L8	Chlordane{1}	0.000	0.000	0	0	N.D. d	N.D. d
26)	L8	Chlordane{2}	0.000	0.000	0	0	N.D. d	N.D. d
27)	L8	Chlordane{3}	0.000	0.000	0	0	N.D. d	N.D. d
28)	L8	Chlordane{4}	0.000	0.000	0	0	N.D. d	N.D. d
29)	L8	Chlordane{5}	0.000	0.000	0	0	N.D. d	N.D. d
		Sum Chlordane			0	0	N.D.	N.D.
		Average Chlordane					0.000	0.000
30)	H	Toxaphene	5.751	5.623	5469.7E6	4024.4E6	248.756	236.531

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

CHECKED BY:

MAY 15 2024

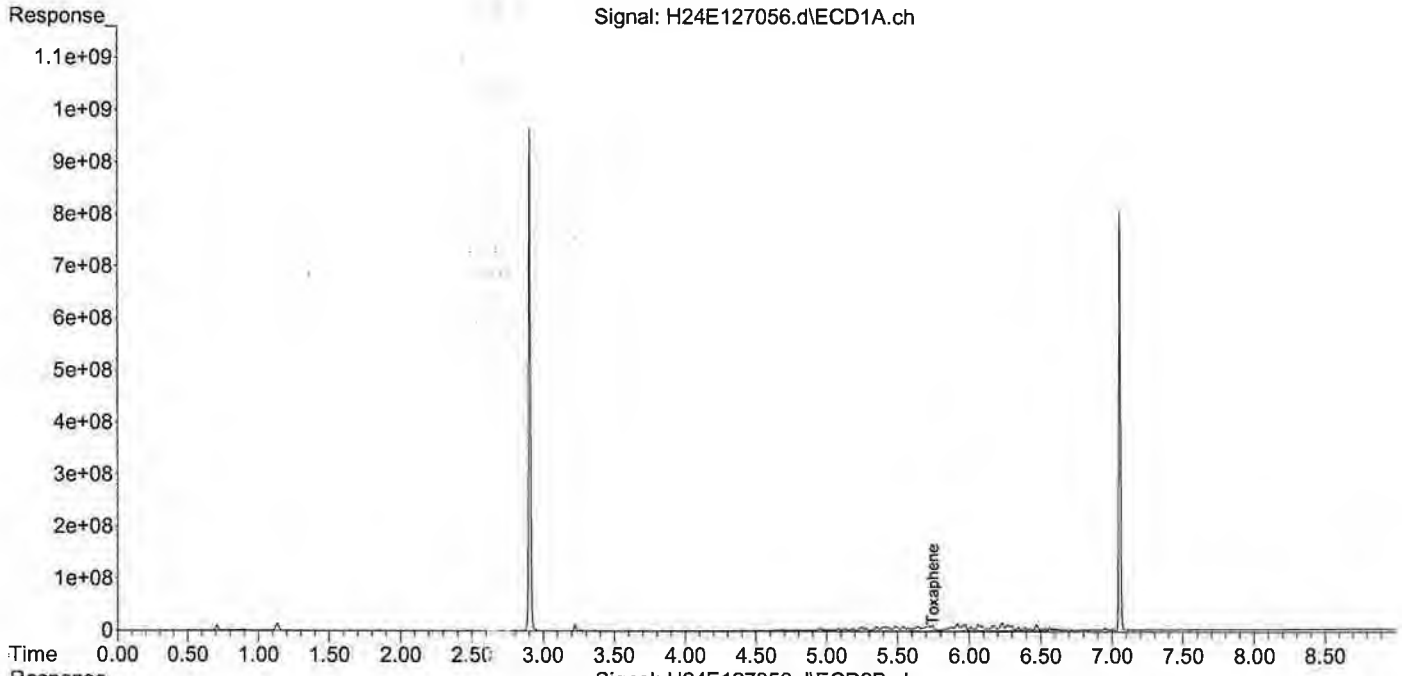
Todd Gionfriddo

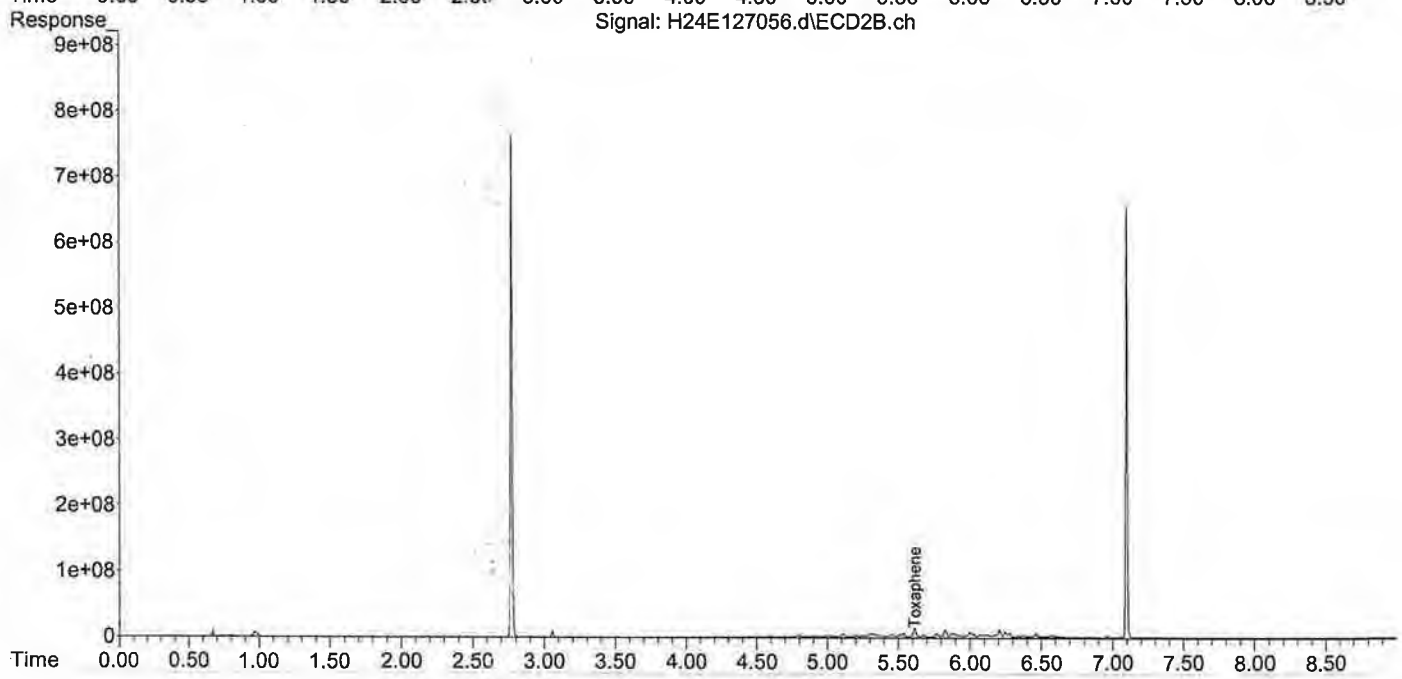
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127056.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 7:52 pm
Operator : PJG
Sample : TOX 250 Inst : ECD 8
Misc : mix[h]
ALS Vial : 56 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:12:58 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8081B

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ECD 8	Calibration:	2400548
Lab File ID:	H24E127058.d	Calibration Date:	05/14/24 00:00
Sequence:	S104592	Injection Date:	05/14/24
Lab Sample ID:	S104592-CCV8	Injection Time:	20:16

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
alpha-Chlordane	A	100	103	3.162921E+07	3.2611E+07		3.1	20	
alpha-Chlordane [2C]	A	100	107	2.290002E+07	2.4446E+07		6.8	20	
gamma-Chlordane	A	100	101	3.406283E+07	3.4253E+07		0.6	20	
gamma-Chlordane [2C]	A	100	108	2.380577E+07	2.5751E+07		8.2	20	
Aldrin	A	100	105	3.521184E+07	3.6812E+07		4.5	20	
Aldrin [2C]	A	100	108	2.565849E+07	2.7691E+07		7.9	20	
alpha-BHC	A	100	108	4.094824E+07	4.4294E+07		8.2	20	
alpha-BHC [2C]	A	100	112	2.860494E+07	3.2159E+07		12.4	20	
beta-BHC	A	100	99.0	1.603056E+07	1.5871E+07		-1.0	20	
beta-BHC [2C]	A	100	103	1.131715E+07	1.1676E+07		3.2	20	
delta-BHC	A	100	111	3.530887E+07	3.9055E+07		10.6	20	
delta-BHC [2C]	A	100	113	2.563254E+07	2.8887E+07		12.7	20	
gamma-BHC (Lindane)	A	100	106	3.755871E+07	3.9778E+07		5.9	20	
gamma-BHC (Lindane) [2C]	A	100	109	2.669666E+07	2.9183E+07		9.3	20	
4,4'-DDD	A	100	122	2.56168E+07	3.135E+07		22.4	20	*
4,4'-DDD [2C]	A	100	127	1.864581E+07	2.3771E+07		27.5	20	*
4,4'-DDE	A	100	107	3.103648E+07	3.3359E+07		7.5	20	
4,4'-DDE [2C]	A	100	111	2.284403E+07	2.527E+07		10.6	20	
4,4'-DDT	A	100	83.1	2.667648E+07	2.2161E+07		-16.9	20	
4,4'-DDT [2C]	A	100	82.3	1.933185E+07	1.5911E+07		-17.7	20	
Dieldrin	A	100	102	3.308541E+07	3.3871E+07		2.4	20	
Dieldrin [2C]	A	100	108	2.361767E+07	2.559E+07		8.4	20	
Endosulfan I	A	100	102	2.923878E+07	2.984E+07		2.1	20	
Endosulfan I [2C]	A	100	106	2.118484E+07	2.2536E+07		6.4	20	
Endosulfan II	A	100	103	2.753683E+07	2.8291E+07		2.7	20	
Endosulfan II [2C]	A	100	109	1.996753E+07	2.1803E+07		9.2	20	
Endosulfan Sulfate	A	100	103	2.557619E+07	2.6451E+07		3.4	20	
Endosulfan Sulfate [2C]	A	100	108	1.881625E+07	2.0261E+07		7.7	20	
Endrin	A	100	104	2.780409E+07	2.8799E+07		3.6	20	
Endrin [2C]	A	100	108	2.002979E+07	2.1657E+07		8.1	20	

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8081B

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ECD 8	Calibration:	2400548
Lab File ID:	H24E127058.d	Calibration Date:	05/14/24 00:00
Sequence:	S104592	Injection Date:	05/14/24
Lab Sample ID:	S104592-CCV8	Injection Time:	20:16

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Endrin Aldehyde	A	100	93.7	2.099927E+07	1.9666E+07		-6.3	20	
Endrin Aldehyde [2C]	A	100	97.9	1.536244E+07	1.5043E+07		-2.1	20	
Endrin Ketone	A	100	102	3.036056E+07	3.0983E+07		2.1	20	
Endrin Ketone [2C]	A	100	106	2.1827E+07	2.3146E+07		6.0	20	
Heptachlor	A	100	98.4	3.600804E+07	3.5436E+07		-1.6	20	
Heptachlor [2C]	A	100	102	2.571343E+07	2.6322E+07		2.4	20	
Heptachlor Epoxide	A	100	102	3.167608E+07	3.2198E+07		1.6	20	
Heptachlor Epoxide [2C]	A	100	105	2.30584E+07	2.4096E+07		4.5	20	
Methoxychlor	A	100	77.9	1.399924E+07	1.0913E+07		-22.0	20	*
Methoxychlor [2C]	A	100	79.4	1.036481E+07	8228000		-20.6	20	*
Decachlorobiphenyl	A	100	98.3	2.219933E+07	2.1816E+07		-1.7		
Decachlorobiphenyl [2C]	A	100	104	1.58767E+07	1.6558E+07		4.3		
Tetrachloro-m-xylene	A	100	103	2.7464E+07	2.8214E+07		2.7		
Tetrachloro-m-xylene [2C]	A	100	105	2.000783E+07	2.0968E+07		4.8		

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127058.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 8:16 pm
Operator : PJG
Sample : PEST 100 Inst : ECD 8
Misc : mix[s,t]
ALS Vial : 58 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:10:13 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

CHECKED BY:

MAY 15 2024

Todd Gionfriddo

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	S	Tetrachloro-m-xylene	27.463	28.214 E6	-2.7	98	0.00
2	T	Hexachlorobenzene	30.139	30.705 E6	-1.9	99	0.00
3	T	alpha-BHC	40.950	44.294 E6	-8.2	99	0.00
4	T	gamma-BHC	37.559	39.778 E6	-5.9	98	0.00
5	T	Beta-BHC	16.030	15.871 E6	1.0	99	0.00
6	T	Delta-BHC	35.309	39.055 E6	-10.6	101	0.00
7	T	Heptachlor	36.007	35.436 E6	1.6	94	0.00
8	T	Aldrin	35.212	36.812 E6	-4.5	98	0.00
9	T	Alachlor	4.247	4.190 E6	1.3	98	0.00
10	T	Heptachlor Epoxide	31.675	32.198 E6	-1.7	98	0.00
11	T	Y-Chlordane	34.063	34.253 E6	-0.6	98	0.00
12	T	A-Chlordane	31.630	32.611 E6	-3.1	99	0.00
13	T	4,4-DDE	31.036	33.359 E6	-7.5	99	0.00
14	T	Endo-I	29.240	29.840 E6	-2.1	98	0.00
15	T	Dieldrin	33.087	33.871 E6	-2.4	98	0.00
16	T	Endrin	27.806	28.799 E6	-3.6	98	0.00
17	T	4,4-DDD	25.617	31.350 E6	-22.4#	113	0.00
18	T	Endo-II	27.537	28.291 E6	-2.7	98	0.00
19	T	4,4-DDT	26.676	22.161 E6	16.9#	76	0.00
20	T	Endrin Aldehyde	20.999	19.666 E6	6.3	97	0.00
21	T	Methoxychlor	14.000	10.913 E6	22.0#	77	0.00
22	T	End Sulf	25.576	26.451 E6	-3.4	99	0.00
23	T	Endrin Ketone	30.361	30.983 E6	-2.0	97	0.00
24	S	Decachlorobiphenyl	22.199	21.816 E6	1.7	98	0.00
Signal #2							
1	S	Tetrachloro-m-xylene	20.007	20.968 E6	-4.8	98	0.00
2	T	Hexachlorobenzene	22.199	22.971 E6	-3.5	99	0.00
3	T	alpha-BHC	28.604	32.159 E6	-12.4	99	0.00
4	T	gamma-BHC	26.698	29.183 E6	-9.3	98	0.00
5	T	Beta-BHC	11.316	11.676 E6	-3.2	99	0.00
6	T	Delta-BHC	25.633	28.887 E6	-12.7	100	0.00
7	T	Heptachlor	25.713	26.322 E6	-2.4	94	0.00
8	T	Aldrin	25.659	27.691 E6	-7.9	98	0.00
9	T	Alachlor	2.936	2.882 E6	1.8	96	0.00
10	T	Heptachlor Epoxide	23.057	24.096 E6	-4.5	98	0.00
11	T	Y-Chlordane	23.804	25.751 E6	-8.2	99	0.00
12	T	A-Chlordane	22.900	24.446 E6	-6.8	99	0.00
13	T	4,4-DDE	22.846	25.270 E6	-10.6	99	0.00
14	T	Endo-I	21.185	22.536 E6	-6.4	99	0.00
15	T	Dieldrin	23.618	25.590 E6	-8.3	99	0.00
16	T	Endrin	20.031	21.657 E6	-8.1	99	0.00
17	T	4,4-DDD	18.645	23.771 E6	-27.5#	114	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127058.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 8:16 pm
Operator : PJG
Sample : PEST 100 Inst : ECD 8
Misc : mix[s,t]
ALS Vial : 58 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:10:13 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
18	T	Endo-II	19.967	21.803 E6	-9.2	101	-0.01
19	T	4,4-DDT	19.332	15.911 E6	17.7#	73	-0.01
20	T	Endrin Aldehyde	15.362	15.043 E6	2.1	99	-0.01
21	T	Methoxychlor	10.365	8.228 E6	20.6#	76	0.00
22	T	End Sulf	18.816	20.261 E6	-7.7	100	0.00
23	T	Endrin Ketone	21.826	23.146 E6	-6.0	97	0.00
24	S	Decachlorobiphenyl	15.876	16.558 E6	-4.3	98	0.00

Evaluate Continuing Calibration Report - Not Founds

25	L8	Chlordane{1}	1.229	0.000 E6	100.0#	0#	0.00
26	L8	Chlordane{2}	1.710	0.000 E6	100.0#	0#	0.00
27	L8	Chlordane{3}	1.458	0.000 E6	100.0#	0#	0.00
28	L8	Chlordane{4}	4.889	0.000 E6	100.0#	0#	0.00
29	L8	Chlordane{5}	1.266	0.000 E6	100.0#	0#	-0.01
30	H	Toxaphene	21.988	0.000 E6	100.0#	0#	0.00

Signal #2

25	L8	Chlordane{1}	0.909	0.000 E6	100.0#	0#	0.00
26	L8	Chlordane{2}	1.255	0.000 E6	100.0#	0#	0.00
27	L8	Chlordane{3}	1.010	0.000 E6	100.0#	0#	-4.26#
28	L8	Chlordane{4}	3.741	0.000 E6	100.0#	0#	-0.02
29	L8	Chlordane{5}	2.602	0.000 E6	100.0#	0#	0.00
30	H	Toxaphene	17.014	0.000 E6	100.0#	0#	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127058.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 8:16 pm
Operator : PJG
Sample : PEST 100 Inst : ECD 8
Misc : mix[s,t]
ALS Vial : 58 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:10:13 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
		System Monitoring Compounds						
1)	S	Tetrachlo...	2.905	2.768	2821.4E6	2096.8E6	102.734	104.804
24)	S	Decachlor...	7.055	7.097	2181.6E6	1655.8E6	98.274	104.296
		Target Compounds						
2)	T	Hexachlor...	3.224	3.136	3070.5E6	2297.1E6	101.880	103.477
3)	T	alpha-BHC	3.363	3.250	4429.4E6	3215.9E6	108.165	112.428
4)	T	gamma-BHC	3.623	3.530	3977.8E6	2918.3E6	105.910	109.308
5)	T	Beta-BHC	3.691	3.598	1587.1E6	1167.6E6	99.008	103.176
6)	T	Delta-BHC	3.837	3.828	3905.5E6	2888.7E6	110.609	112.693
7)	T	Heptachlor	4.011	3.877	3543.6E6	2632.2E6	98.414	102.370
8)	T	Aldrin	4.257	4.133	3681.2E6	2769.1E6	104.543	107.920
9)	T	Alachlor	4.374	4.062	419.0E6	288.2E6	98.650	98.159
10)	T	Heptachlo...	4.754	4.590	3219.8E6	2409.6E6	101.652	104.508
11)	T	Y-Chlordane	4.854	4.742	3425.3E6	2575.1E6	100.559	108.177
12)	T	A-Chlordane	4.964	4.861	3261.1E6	2444.6E6	103.102	106.750
13)	T	4,4-DDE	5.024	5.003	3335.9E6	2527.0E6	107.484	110.614
14)	T	Endo-I	5.077	4.904	2984.0E6	2253.6E6	102.054	106.378
15)	T	Dieldrin	5.274	5.125	3387.1E6	2559.0E6	102.370	108.349
16)	T	Endrin	5.466	5.371	2879.9E6	2165.7E6	103.571	108.119
17)	T	4,4-DDD	5.515	5.473	3135.0E6	2377.1E6	122.381	127.490
18)	T	Endo-II	5.650	5.544	2829.1E6	2180.3E6	102.740	109.194
19)	T	4,4-DDT	5.746	5.729	2216.1E6	1591.1E6	83.076	82.304
20)	T	Endrin Al...	5.989	5.822	1966.6E6	1504.3E6	93.653	97.919
21)	T	Methoxychlor	6.118	6.249	1091.3E6	822.8E6	77.948	79.383
22)	T	End Sulf	6.302	6.036	2645.1E6	2026.1E6	103.422	107.679
23)	T	Endrin Ke...	6.486	6.400	3098.3E6	2314.6E6	102.048	106.049
25)	L8	Chlordane{1}	0.000	0.000	0	0	N.D. d	N.D. d
26)	L8	Chlordane{2}	0.000	0.000	0	0	N.D. d	N.D. d
27)	L8	Chlordane{3}	0.000	0.000	0	0	N.D. d	N.D.
28)	L8	Chlordane{4}	0.000	0.000	0	0	N.D. d	N.D. d
29)	L8	Chlordane{5}	0.000	0.000	0	0	N.D. d	N.D. d
		Sum Chlordane			0	0	N.D.	N.D.
Average		Chlordane					0.000	0.000
30)	H	Toxaphene	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

CHECKED BY:

MAY 15 2024

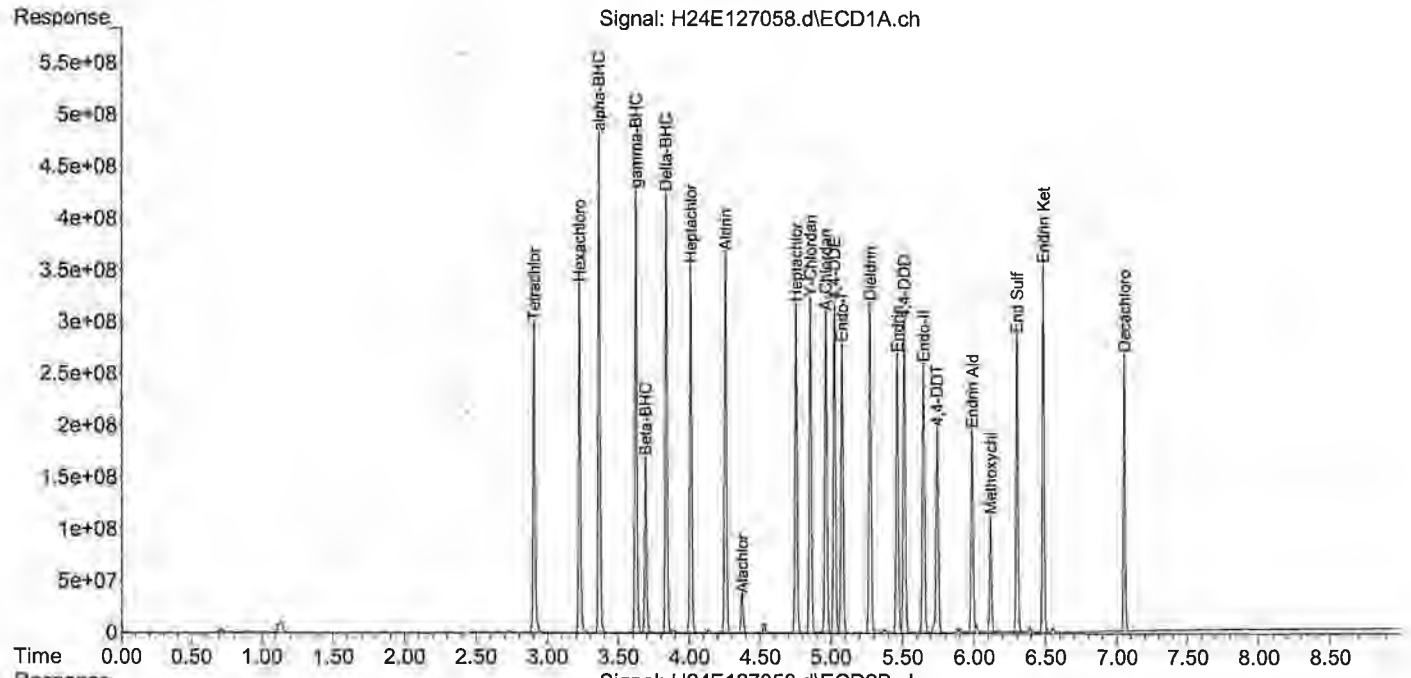
Todd Gionfriddo

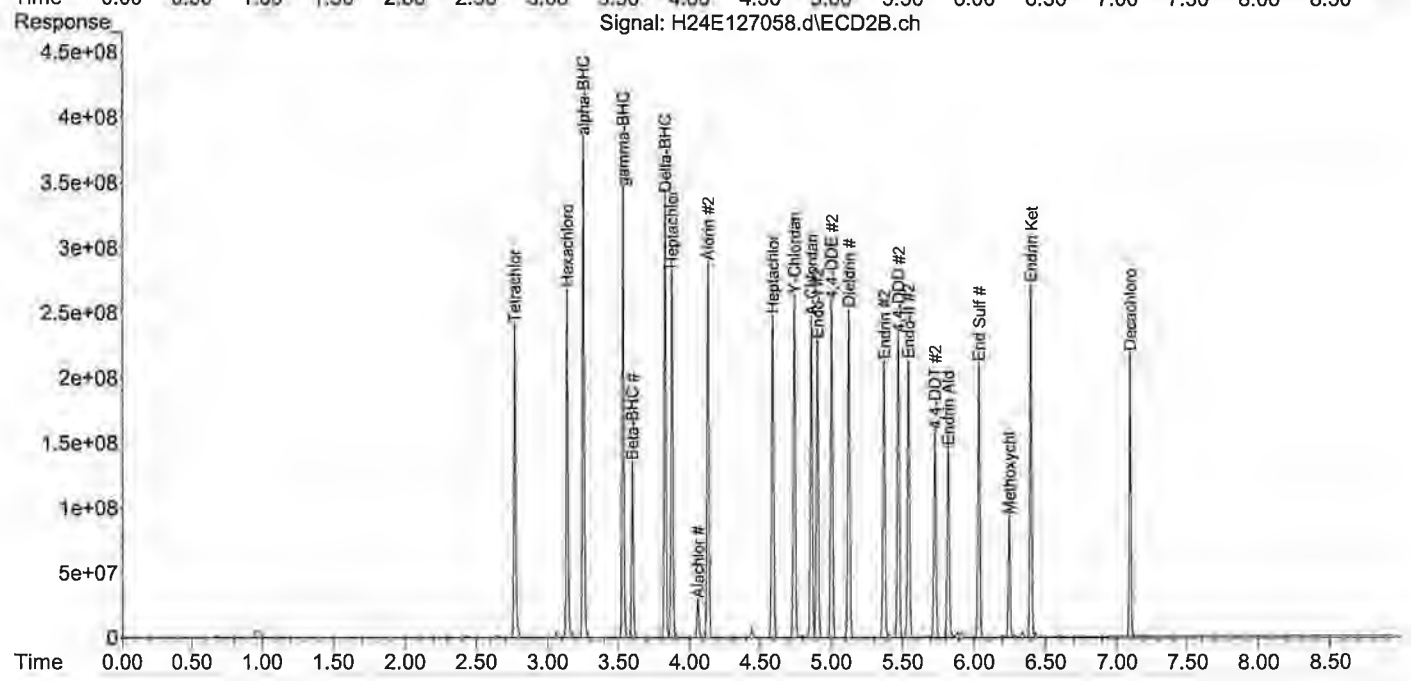
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127058.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 8:16 pm
Operator : PJG
Sample : PEST 100 Inst : ECD 8
Misc : mix[s,t]
ALS Vial : 58 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:10:13 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





QC DATA

IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

B1A 2987

Lab Sample ID: 24E1437-04 Date(s) Analyzed: 05/14/2024 05/14/2024

Instrument ID (1): ECD 8 Instrument ID (2): ECD 8

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDT	1	5.745	-0.030	0.030	0.021	
	2	5.729	-0.030	0.030	0.021	0.0

IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS 2988

Lab Sample ID: B374053-BS1 Date(s) Analyzed: 05/14/2024 05/14/2024

Instrument ID (1): ECD 8A Instrument ID (2): ECD 8B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	5.516	-0.030	0.030	0.093	
	2	5.474	-0.030	0.030	0.099	6.3
4,4'-DDE	1	5.025	-0.030	0.030	0.092	
	2	5.005	-0.030	0.030	0.096	4.3
4,4'-DDT	1	5.746	-0.030	0.030	0.091	
	2	5.731	-0.030	0.030	0.092	1.1
Aldrin	1	4.258	-0.030	0.030	0.086	
	2	4.134	-0.030	0.030	0.090	4.6
alpha-BHC	1	3.363	-0.030	0.030	0.085	
	2	3.251	-0.030	0.030	0.086	1.2
alpha-Chlordane	1	4.964	-0.030	0.030	0.088	
	2	4.862	-0.030	0.030	0.093	5.5
beta-BHC	1	3.692	-0.030	0.030	0.081	
	2	3.599	-0.030	0.030	0.084	3.6
delta-BHC	1	3.838	-0.030	0.030	0.085	
	2	3.829	-0.030	0.030	0.086	1.2
Dieldrin	1	5.275	-0.030	0.030	0.090	
	2	5.127	-0.030	0.030	0.095	5.4
Endosulfan I	1	5.078	-0.030	0.030	0.090	
	2	4.905	-0.030	0.030	0.094	4.4
Endosulfan II	1	5.651	-0.030	0.030	0.088	
	2	5.545	-0.030	0.030	0.095	7.7
Endosulfan Sulfate	1	6.302	-0.030	0.030	0.070	
	2	6.037	-0.030	0.030	0.089	23.9
Endrin	1	5.467	-0.030	0.030	0.095	
	2	5.372	-0.030	0.030	0.098	3.1
Endrin Aldehyde	1	5.989	-0.030	0.030	0.074	
	2	5.823	-0.030	0.030	0.083	11.5
Endrin Ketone	1	6.487	-0.030	0.030	0.086	
	2	6.400	-0.030	0.030	0.088	2.3
gamma-BHC (Lindane)	1	3.623	-0.030	0.030	0.082	
	2	3.531	-0.030	0.030	0.087	5.9
gamma-Chlordane	1	4.855	-0.030	0.030	0.084	
	2	4.744	-0.030	0.030	0.093	9.0
Heptachlor	1	4.755	-0.030	0.030	0.088	
	2	4.592	-0.030	0.030	0.091	2.2
Heptachlor Epoxide	1	4.011	-0.030	0.030	0.087	
	2	3.879	-0.030	0.030	0.091	4.5
Methoxychlor	1	6.118	-0.030	0.030	0.074	
	2	6.250	-0.030	0.030	0.089	18.4

IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup 2989

Lab Sample ID: B374053-BSD1 Date(s) Analyzed: 05/14/2024 05/14/2024

Instrument ID (1): ECD 8A Instrument ID (2): ECD 8B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	5.516	-0.030	0.030	0.12	
	2	5.474	-0.030	0.030	0.12	0.0
4,4'-DDE	1	5.025	-0.030	0.030	0.11	
	2	5.005	-0.030	0.030	0.12	8.7
4,4'-DDT	1	5.746	-0.030	0.030	0.12	
	2	5.731	-0.030	0.030	0.12	0.0
Aldrin	1	4.258	-0.030	0.030	0.10	
	2	4.134	-0.030	0.030	0.11	9.5
alpha-BHC	1	3.364	-0.030	0.030	0.10	
	2	3.252	-0.030	0.030	0.11	9.5
alpha-Chlordane	1	4.964	-0.030	0.030	0.11	
	2	4.862	-0.030	0.030	0.11	0.0
beta-BHC	1	3.692	-0.030	0.030	0.094	
	2	3.599	-0.030	0.030	0.099	5.2
delta-BHC	1	3.838	-0.030	0.030	0.10	
	2	3.830	-0.030	0.030	0.10	0.0
Dieldrin	1	5.275	-0.030	0.030	0.11	
	2	5.127	-0.030	0.030	0.12	8.7
Endosulfan I	1	5.078	-0.030	0.030	0.11	
	2	4.905	-0.030	0.030	0.11	0.0
Endosulfan II	1	5.651	-0.030	0.030	0.11	
	2	5.545	-0.030	0.030	0.12	8.7
Endosulfan Sulfate	1	6.302	-0.030	0.030	0.089	
	2	6.038	-0.030	0.030	0.11	21.1
Endrin	1	5.467	-0.030	0.030	0.12	
	2	5.373	-0.030	0.030	0.12	0.0
Endrin Aldehyde	1	5.989	-0.030	0.030	0.085	
	2	5.823	-0.030	0.030	0.095	11.1
Endrin Ketone	1	6.486	-0.030	0.030	0.11	
	2	6.400	-0.030	0.030	0.11	0.0
gamma-BHC (Lindane)	1	3.623	-0.030	0.030	0.099	
	2	3.532	-0.030	0.030	0.10	0.0
gamma-Chlordane	1	4.855	-0.030	0.030	0.10	
	2	4.744	-0.030	0.030	0.11	9.5
Heptachlor	1	4.754	-0.030	0.030	0.11	
	2	4.592	-0.030	0.030	0.11	0.0
Heptachlor Epoxide	1	4.011	-0.030	0.030	0.11	
	2	3.879	-0.030	0.030	0.11	0.0
Methoxychlor	1	6.118	-0.030	0.030	0.10	
	2	6.250	-0.030	0.030	0.11	9.5

IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

Matrix Spike 2990

Lab Sample ID: B374053-MS1 Date(s) Analyzed: 05/14/2024 05/14/2024

Instrument ID (1): ECD 8A Instrument ID (2): ECD 8B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	5.516	-0.030	0.030	0.12	
	2	5.473	-0.030	0.030	0.13	0.0
4,4'-DDE	1	5.025	-0.030	0.030	0.11	
	2	5.004	-0.030	0.030	0.11	0.0
4,4'-DDT	1	5.746	-0.030	0.030	0.080	
	2	5.730	-0.030	0.030	0.081	1.2
Aldrin	1	4.258	-0.030	0.030	0.10	
	2	4.134	-0.030	0.030	0.11	9.5
alpha-BHC	1	3.363	-0.030	0.030	0.11	
	2	3.251	-0.030	0.030	0.11	0.0
beta-BHC	1	3.692	-0.030	0.030	0.093	
	2	3.598	-0.030	0.030	0.098	5.2
delta-BHC	1	3.838	-0.030	0.030	0.099	
	2	3.829	-0.030	0.030	0.10	0.0
Dieldrin	1	5.275	-0.030	0.030	0.11	
	2	5.126	-0.030	0.030	0.11	0.0
Endosulfan I	1	5.078	-0.030	0.030	0.11	
	2	4.905	-0.030	0.030	0.11	0.0
Endosulfan II	1	5.650	-0.030	0.030	0.10	
	2	5.545	-0.030	0.030	0.12	18.2
Endosulfan Sulfate	1	6.302	-0.030	0.030	0.081	
	2	6.036	-0.030	0.030	0.10	21.0
Endrin	1	5.467	-0.030	0.030	0.11	
	2	5.372	-0.030	0.030	0.12	8.7
Endrin Aldehyde	1	5.989	5.960	6.020	0.069	
	2	5.822	5.792	5.852	0.076	9.7
Endrin Ketone	1	6.487	-0.030	0.030	0.099	
	2	6.400	-0.030	0.030	0.10	1.0
gamma-BHC (Lindane)	1	3.623	-0.030	0.030	0.10	
	2	3.531	-0.030	0.030	0.11	9.5
Heptachlor	1	4.755	-0.030	0.030	0.11	
	2	4.592	-0.030	0.030	0.11	0.0
Heptachlor Epoxide	1	4.011	-0.030	0.030	0.10	
	2	3.879	-0.030	0.030	0.11	9.5
Methoxychlor	1	6.118	-0.030	0.030	0.069	
	2	6.249	-0.030	0.030	0.083	18.4

IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

Matrix Spike Dup 2991

Lab Sample ID: B374053-MSD1 Date(s) Analyzed: 05/14/2024 05/14/2024

Instrument ID (1): ECD 8A Instrument ID (2): ECD 8B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
4,4'-DDD	1	5.516	-0.030	0.030	0.14	
	2	5.474	-0.030	0.030	0.15	6.9
4,4'-DDE	1	5.025	-0.030	0.030	0.12	
	2	5.005	-0.030	0.030	0.13	8.0
4,4'-DDT	1	5.747	-0.030	0.030	0.096	
	2	5.730	-0.030	0.030	0.097	1.0
Aldrin	1	4.258	-0.030	0.030	0.12	
	2	4.134	-0.030	0.030	0.12	0.0
alpha-BHC	1	3.363	-0.030	0.030	0.12	
	2	3.251	-0.030	0.030	0.12	0.0
beta-BHC	1	3.692	-0.030	0.030	0.10	
	2	3.598	-0.030	0.030	0.11	9.5
delta-BHC	1	3.838	-0.030	0.030	0.10	
	2	3.830	-0.030	0.030	0.10	0.0
Dieldrin	1	5.275	-0.030	0.030	0.12	
	2	5.127	-0.030	0.030	0.13	8.0
Endosulfan I	1	5.079	-0.030	0.030	0.12	
	2	4.905	-0.030	0.030	0.12	0.0
Endosulfan II	1	5.651	-0.030	0.030	0.11	
	2	5.545	-0.030	0.030	0.12	8.7
Endosulfan Sulfate	1	6.302	-0.030	0.030	0.082	
	2	6.037	-0.030	0.030	0.10	19.8
Endrin	1	5.467	-0.030	0.030	0.13	
	2	5.372	-0.030	0.030	0.13	0.0
Endrin Aldehyde	1	5.990	5.960	6.020	0.083	
	2	5.822	5.792	5.852	0.093	10.2
Endrin Ketone	1	6.487	-0.030	0.030	0.10	
	2	6.400	-0.030	0.030	0.11	0.0
gamma-BHC (Lindane)	1	3.623	-0.030	0.030	0.11	
	2	3.531	-0.030	0.030	0.12	8.7
Heptachlor	1	4.755	-0.030	0.030	0.12	
	2	4.592	-0.030	0.030	0.12	0.0
Heptachlor Epoxide	1	4.011	-0.030	0.030	0.12	
	2	3.879	-0.030	0.030	0.12	0.0
Methoxychlor	1	6.118	-0.030	0.030	0.081	
	2	6.250	-0.030	0.030	0.096	16.9

1 - FORM I
ANALYSIS DATA SHEET

Blank

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374053-BLK1	File ID:	H24E127020.d
Sampled:		Prepared:	05/10/24 15:22	Analyzed:	05/14/24 12:41
Solids:		Preparation:	SW-846 3546	Dilution:	
Initial/Final:	10.04 g / 10 mL				
Batch:	B374053	Sequence:	S104592	Calibration:	2400548
Instrument:	ECD 8				
Column:	1				

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
5103-71-9	alpha-Chlordane		0.0023	0.0050	
5103-74-2	gamma-Chlordane		0.0022	0.0050	
309-00-2	Aldrin		0.00049	0.0050	
319-84-6	alpha-BHC		0.0024	0.0050	
319-85-7	beta-BHC		0.0026	0.0050	
319-86-8	delta-BHC		0.0026	0.0050	
58-89-9	gamma-BHC (Lindane)		0.00069	0.0020	
72-54-8	4,4'-DDD		0.00085	0.0040	
72-55-9	4,4'-DDE		0.00044	0.0040	
50-29-3	4,4'-DDT		0.00051	0.0040	
60-57-1	Dieldrin		0.00047	0.0040	
959-98-8	Endosulfan I		0.0024	0.0050	
33213-65-9	Endosulfan II		0.0021	0.0080	
1031-07-8	Endosulfan Sulfate		0.0019	0.0080	
72-20-8	Endrin		0.0025	0.0080	
7421-93-4	Endrin Aldehyde		0.0020	0.0080	
53494-70-5	Endrin Ketone		0.0020	0.0080	
76-44-8	Heptachlor		0.00055	0.0050	
1024-57-3	Heptachlor Epoxide		0.00058	0.0050	
72-43-5	Methoxychlor		0.0059	0.050	R-05
8001-35-2	Toxaphene		0.042	0.10	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127020.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 12:41 pm
Operator : PJG
Sample : B374053-BLK1@FLOR TBA Inst : ECD 8
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:34:08 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
		System Monitoring Compounds						
1)	S	Tetrachlo...	2.906	2.769	3269.6E6	2472.1E6	119.056	123.562
24)	S	Decachlor...	7.055	7.097	2933.8E6	2203.0E6	132.161	138.765
		Target Compounds						
2)	T	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
3)	T	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	T	gamma-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	T	Beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6)	T	Delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	T	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
8)	T	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
9)	T	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
10)	T	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
11)	T	Y-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
12)	T	A-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
13)	T	4,4-DDE	0.000	0.000	0	0	N.D. d	N.D. d
14)	T	Endo-I	0.000	0.000	0	0	N.D. d	N.D. d
15)	T	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
16)	T	Endrin	0.000	0.000	0	0	N.D.	N.D.
17)	T	4,4-DDD	0.000	0.000	0	0	N.D. d	N.D. d
18)	T	Endo-II	0.000	0.000	0	0	N.D.	N.D.
19)	T	4,4-DDT	0.000	0.000	0	0	N.D. d	N.D. d
20)	T	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
21)	T	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
22)	T	End Sulf	0.000	0.000	0	0	N.D.	N.D.
23)	T	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
25)	L8	Chlordane{1}	0.000	0.000	0	0	N.D. d	N.D. d
26)	L8	Chlordane{2}	0.000	0.000	0	0	N.D. d	N.D. d
27)	L8	Chlordane{3}	0.000	0.000	0	0	N.D. d	N.D. d
28)	L8	Chlordane{4}	0.000	0.000	0	0	N.D. d	N.D. d
29)	L8	Chlordane{5}	0.000	0.000	0	0	N.D. d	N.D. d
		Sum Chlordane			0	0	N.D.	N.D.
		Average Chlordane					0.000	0.000
30)	H	Toxaphene	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

CHECKED BY:

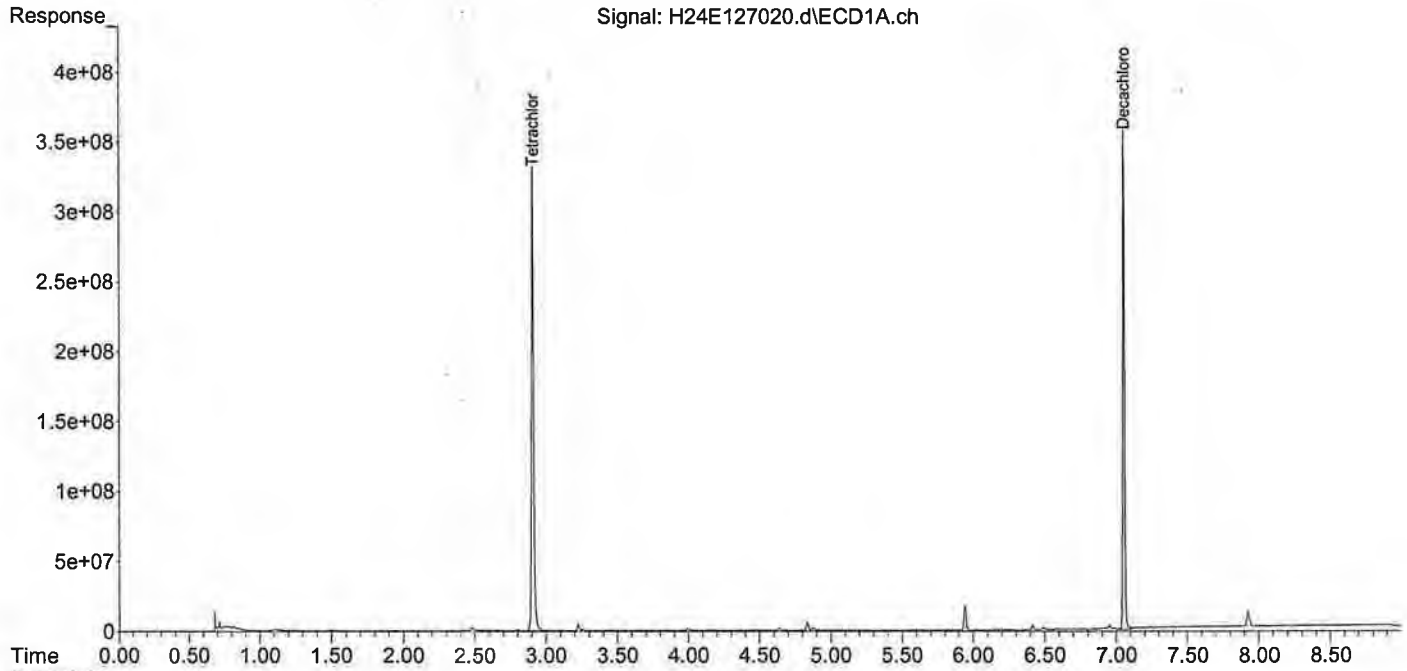
MAY 15 2024

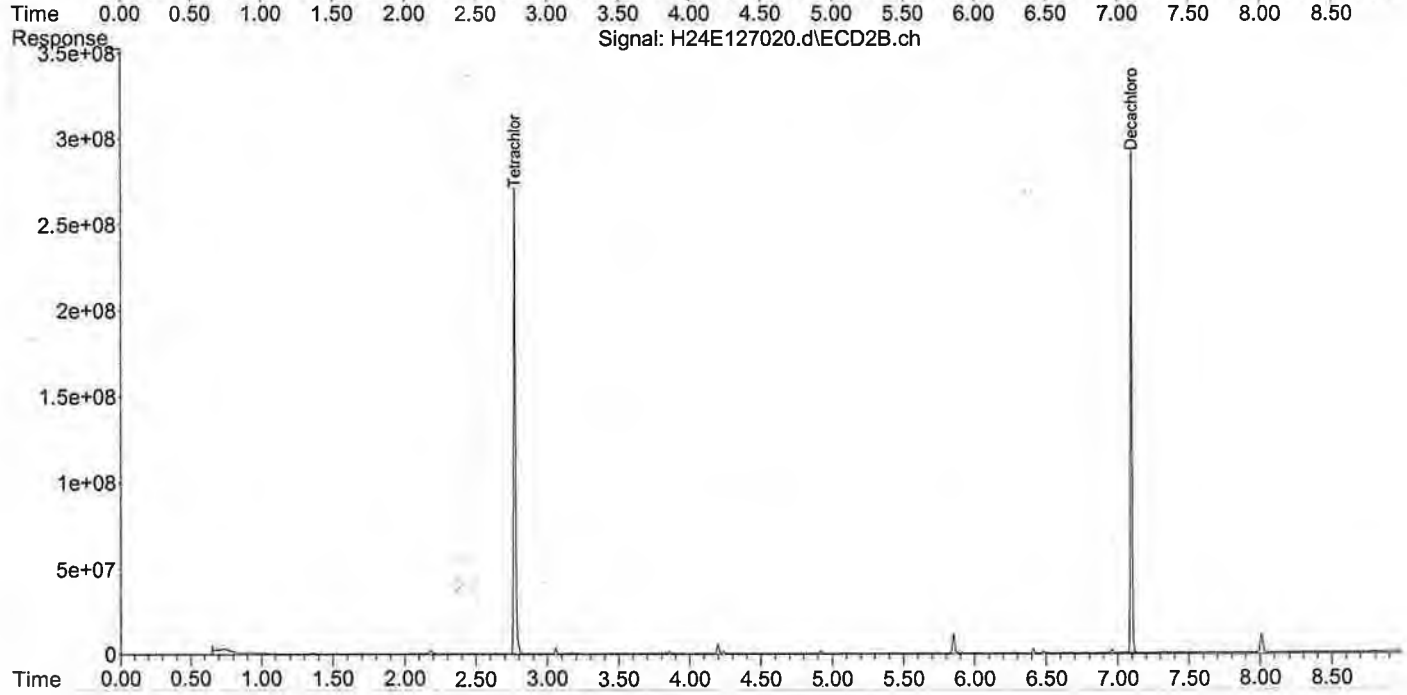
Todd Gionfriddo

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127020.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 12:41 pm
Operator : PJG
Sample : B374053-BLK1@FLOR TBA Inst : ECD 8
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:34:08 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127023.d
Signal(s) : Signal #1: ECD1A.ch, Signal #2: ECD2B.ch
Acq On : 14 May 2024 1:17 pm
Operator : PJG
Sample : B374053-BLK1@FLOR Inst : ECD 8
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:35:28 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
		System Monitoring Compounds						
1)	S	Tetrachlo...	2.905	2.769	3228.4E6	2426.6E6	117.554	121.289
24)	S	Decachlor...	7.055	7.097	2848.7E6	2141.2E6	128.327	134.873
		Target Compounds						
2)	T	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
3)	T	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	T	gamma-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	T	Beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6)	T	Delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	T	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
8)	T	Aldrin	0.000	0.000	0	0	N.D.	N.D.
9)	T	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
10)	T	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
11)	T	Y-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
12)	T	A-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
13)	T	4,4-DDE	0.000	0.000	0	0	N.D. d	N.D. d
14)	T	Endo-I	0.000	0.000	0	0	N.D. d	N.D. d
15)	T	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
16)	T	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
17)	T	4,4-DDD	0.000	0.000	0	0	N.D. d	N.D. d
18)	T	Endo-II	0.000	0.000	0	0	N.D.	N.D.
19)	T	4,4-DDT	0.000	0.000	0	0	N.D. d	N.D. d
20)	T	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
21)	T	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
22)	T	End Sulf	0.000	0.000	0	0	N.D.	N.D.
23)	T	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
25)	L8	Chlordane{1}	0.000	0.000	0	0	N.D. d	N.D. d
26)	L8	Chlordane{2}	0.000	0.000	0	0	N.D. d	N.D. d
27)	L8	Chlordane{3}	0.000	0.000	0	0	N.D. d	N.D. d
28)	L8	Chlordane{4}	0.000	0.000	0	0	N.D. d	N.D. d
29)	L8	Chlordane{5}	0.000	0.000	0	0	N.D. d	N.D. d
		Sum Chlordane			0	0	N.D.	N.D.
		Average Chlordane					0.000	0.000
30)	H	Toxaphene	0.000	0.000	0	0	N.D. d	N.D. d

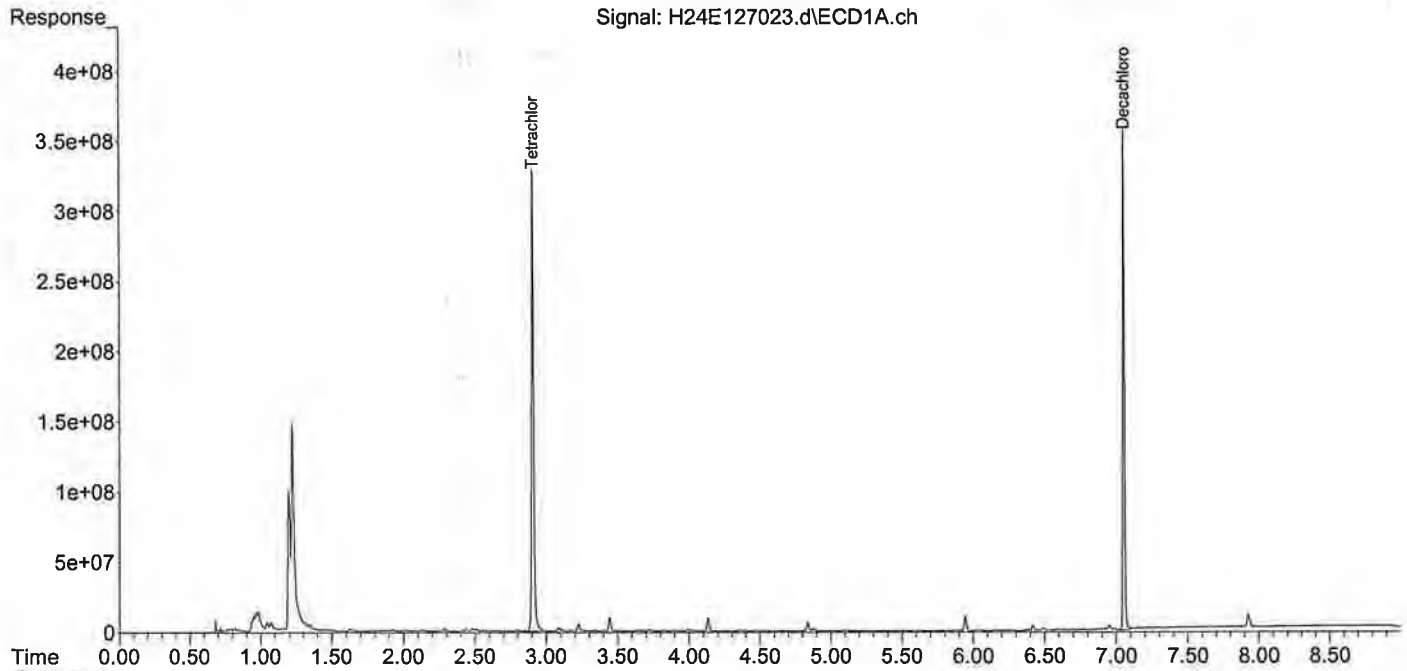
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

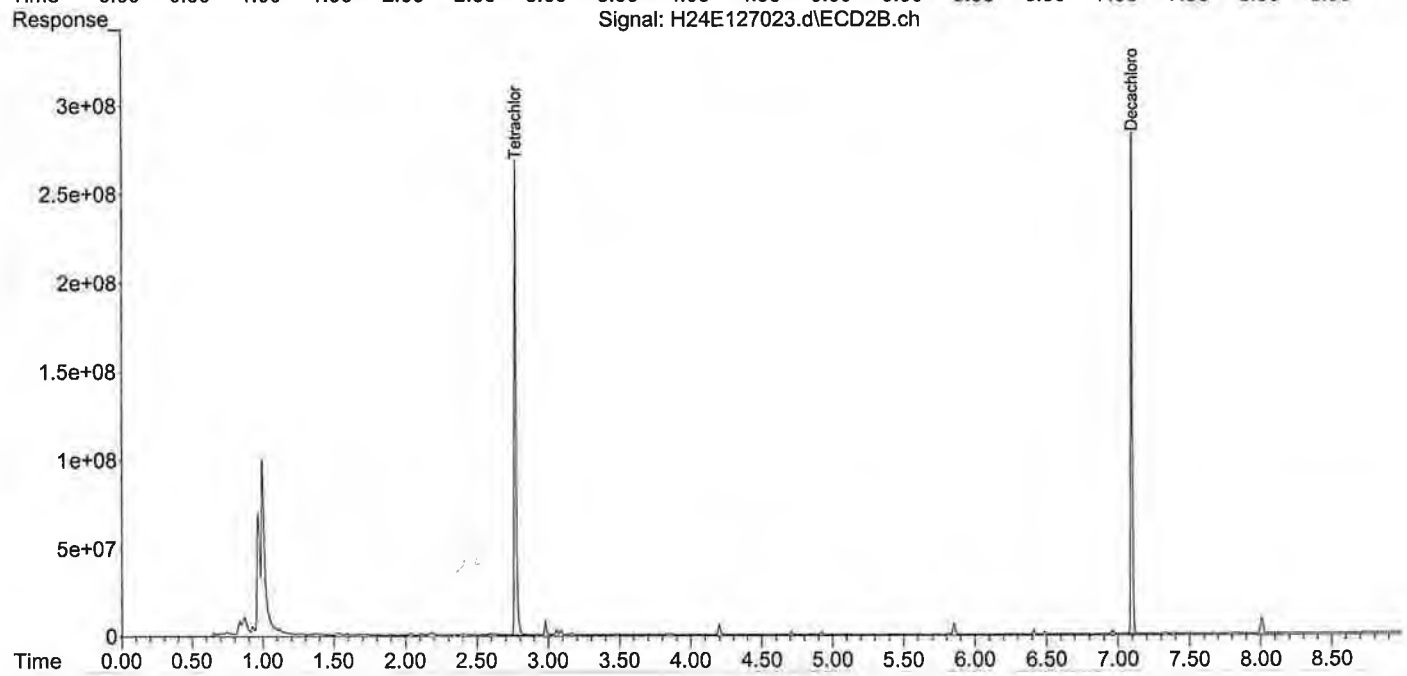
CHECKED BY:
MAY 15 2024
Todd Gionfriddo

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127023.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 1:17 pm
Operator : PJG
Sample : B374053-BLK1@FLOR Inst : ECD 8
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:35:28 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





1 - FORM I
ANALYSIS DATA SHEET

Blank

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374053-BLK1	File ID:	H24E127020.d
Sampled:		Prepared:	05/10/24 15:22	Analyzed:	05/14/24 12:41
Solids:		Preparation:	SW-846 3546	Dilution:	
Initial/Final:	10.04 g / 10 mL				
Batch:	B374053	Sequence:	S104592	Calibration:	2400548
Instrument:	ECD 8				
Column:	2				

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
5103-71-9	alpha-Chlordane [2C]		0.0019	0.0050	
5103-74-2	gamma-Chlordane [2C]		0.0021	0.0050	
309-00-2	Aldrin [2C]		0.00055	0.0050	
319-84-6	alpha-BHC [2C]		0.0020	0.0050	
319-85-7	beta-BHC [2C]		0.0020	0.0050	
319-86-8	delta-BHC [2C]		0.0020	0.0050	
58-89-9	gamma-BHC (Lindane) [2C]		0.00065	0.0020	
72-54-8	4,4'-DDD [2C]		0.00055	0.0040	
72-55-9	4,4'-DDE [2C]		0.00065	0.0040	
50-29-3	4,4'-DDT [2C]		0.00056	0.0040	
60-57-1	Dieldrin [2C]		0.00056	0.0040	
959-98-8	Endosulfan I [2C]		0.0020	0.0050	
33213-65-9	Endosulfan II [2C]		0.0018	0.0080	
1031-07-8	Endosulfan Sulfate [2C]		0.0019	0.0080	
72-20-8	Endrin [2C]		0.0021	0.0080	
7421-93-4	Endrin Aldehyde [2C]		0.0021	0.0080	
53494-70-5	Endrin Ketone [2C]		0.0021	0.0080	
76-44-8	Heptachlor [2C]		0.00063	0.0050	
1024-57-3	Heptachlor Epoxide [2C]		0.00058	0.0050	
72-43-5	Methoxychlor [2C]		0.0048	0.050	
8001-35-2	Toxaphene [2C]		0.048	0.10	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127020.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 12:41 pm
Operator : PJG
Sample : B374053-BLK1@FLOR TBA Inst : ECD 8
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:34:08 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
		System Monitoring Compounds						
1)	S	Tetrachlo...	2.906	2.769	3269.6E6	2472.1E6	119.056	123.562
24)	S	Decachlor...	7.055	7.097	2933.8E6	2203.0E6	132.161	138.765
		Target Compounds						
2)	T	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
3)	T	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	T	gamma-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	T	Beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6)	T	Delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	T	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
8)	T	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
9)	T	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
10)	T	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
11)	T	Y-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
12)	T	A-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
13)	T	4,4-DDE	0.000	0.000	0	0	N.D. d	N.D. d
14)	T	Endo-I	0.000	0.000	0	0	N.D. d	N.D. d
15)	T	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
16)	T	Endrin	0.000	0.000	0	0	N.D.	N.D.
17)	T	4,4-DDD	0.000	0.000	0	0	N.D. d	N.D. d
18)	T	Endo-II	0.000	0.000	0	0	N.D.	N.D.
19)	T	4,4-DDT	0.000	0.000	0	0	N.D. d	N.D. d
20)	T	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
21)	T	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
22)	T	End Sulf	0.000	0.000	0	0	N.D.	N.D.
23)	T	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
25)	L8	Chlordane{1}	0.000	0.000	0	0	N.D. d	N.D. d
26)	L8	Chlordane{2}	0.000	0.000	0	0	N.D. d	N.D. d
27)	L8	Chlordane{3}	0.000	0.000	0	0	N.D. d	N.D. d
28)	L8	Chlordane{4}	0.000	0.000	0	0	N.D. d	N.D. d
29)	L8	Chlordane{5}	0.000	0.000	0	0	N.D. d	N.D. d
		Sum Chlordane			0	0	N.D.	N.D.
		Average Chlordane					0.000	0.000
30)	H	Toxaphene	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

CHECKED BY:

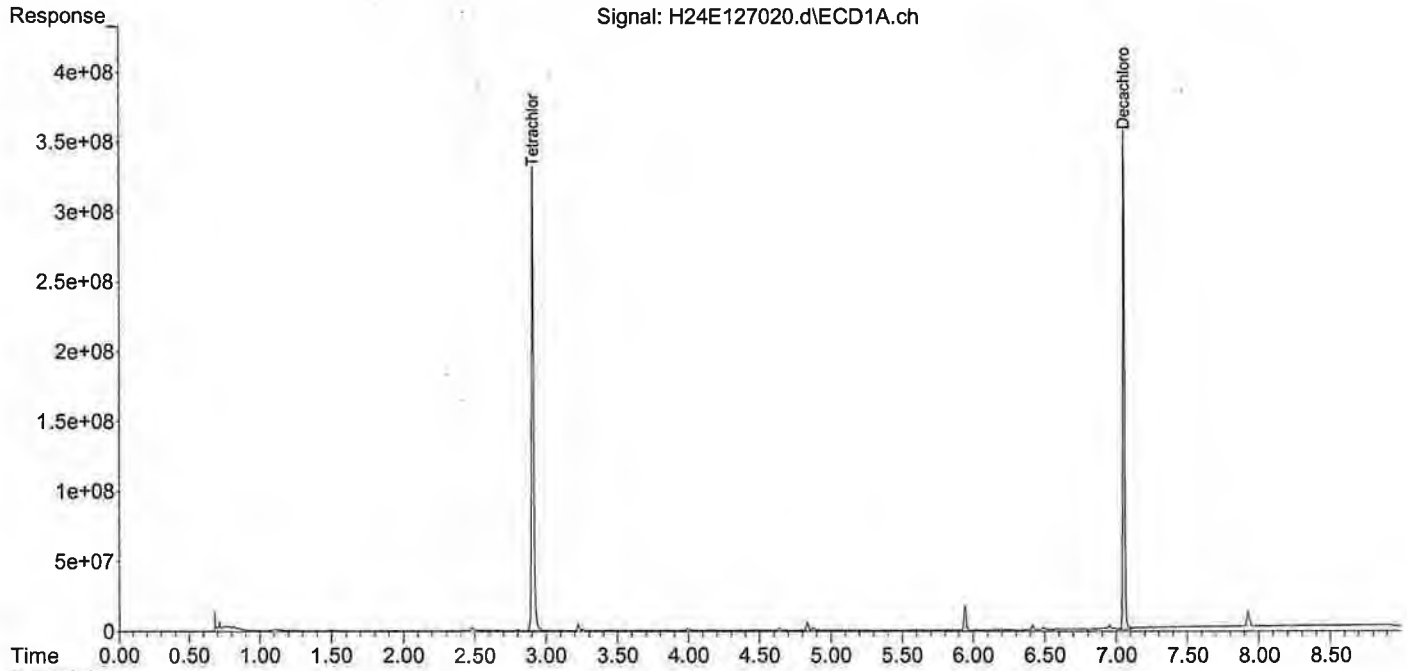
MAY 15 2024

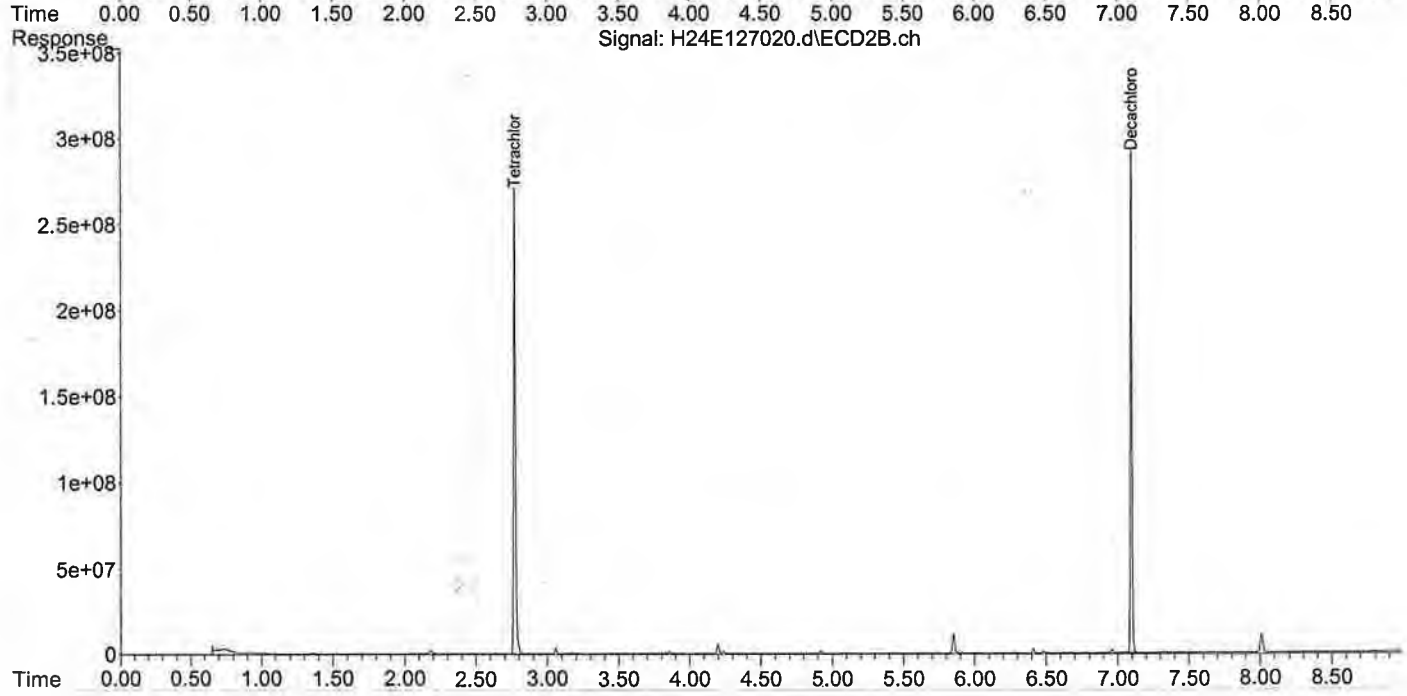
Todd Gionfriddo

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127020.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 12:41 pm
Operator : PJG
Sample : B374053-BLK1@FLOR TBA Inst : ECD 8
Misc :
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:34:08 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127023.d
Signal(s) : Signal #1: ECD1A.ch, Signal #2: ECD2B.ch
Acq On : 14 May 2024 1:17 pm
Operator : PJG
Sample : B374053-BLK1@FLOR Inst : ECD 8
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:35:28 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
		System Monitoring Compounds						
1)	S	Tetrachlo...	2.905	2.769	3228.4E6	2426.6E6	117.554	121.289
24)	S	Decachlor...	7.055	7.097	2848.7E6	2141.2E6	128.327	134.873
		Target Compounds						
2)	T	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
3)	T	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
4)	T	gamma-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	T	Beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6)	T	Delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	T	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
8)	T	Aldrin	0.000	0.000	0	0	N.D.	N.D.
9)	T	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
10)	T	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
11)	T	Y-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
12)	T	A-Chlordane	0.000	0.000	0	0	N.D. d	N.D. d
13)	T	4,4-DDE	0.000	0.000	0	0	N.D. d	N.D. d
14)	T	Endo-I	0.000	0.000	0	0	N.D. d	N.D. d
15)	T	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
16)	T	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
17)	T	4,4-DDD	0.000	0.000	0	0	N.D. d	N.D. d
18)	T	Endo-II	0.000	0.000	0	0	N.D.	N.D.
19)	T	4,4-DDT	0.000	0.000	0	0	N.D. d	N.D. d
20)	T	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
21)	T	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
22)	T	End Sulf	0.000	0.000	0	0	N.D.	N.D.
23)	T	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
25)	L8	Chlordane{1}	0.000	0.000	0	0	N.D. d	N.D. d
26)	L8	Chlordane{2}	0.000	0.000	0	0	N.D. d	N.D. d
27)	L8	Chlordane{3}	0.000	0.000	0	0	N.D. d	N.D. d
28)	L8	Chlordane{4}	0.000	0.000	0	0	N.D. d	N.D. d
29)	L8	Chlordane{5}	0.000	0.000	0	0	N.D. d	N.D. d
		Sum Chlordane			0	0	N.D.	N.D.
		Average Chlordane					0.000	0.000
30)	H	Toxaphene	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

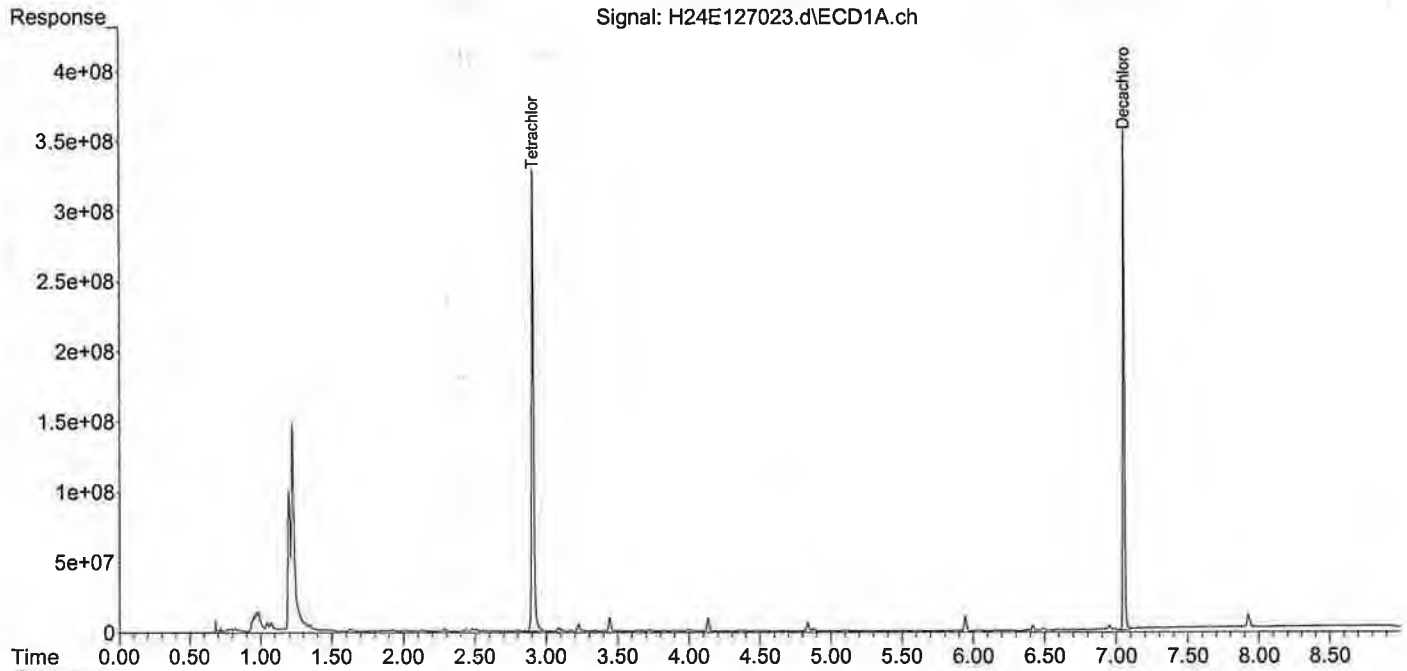
CHECKED BY:
MAY 15 2024
Todd Gionfriddo

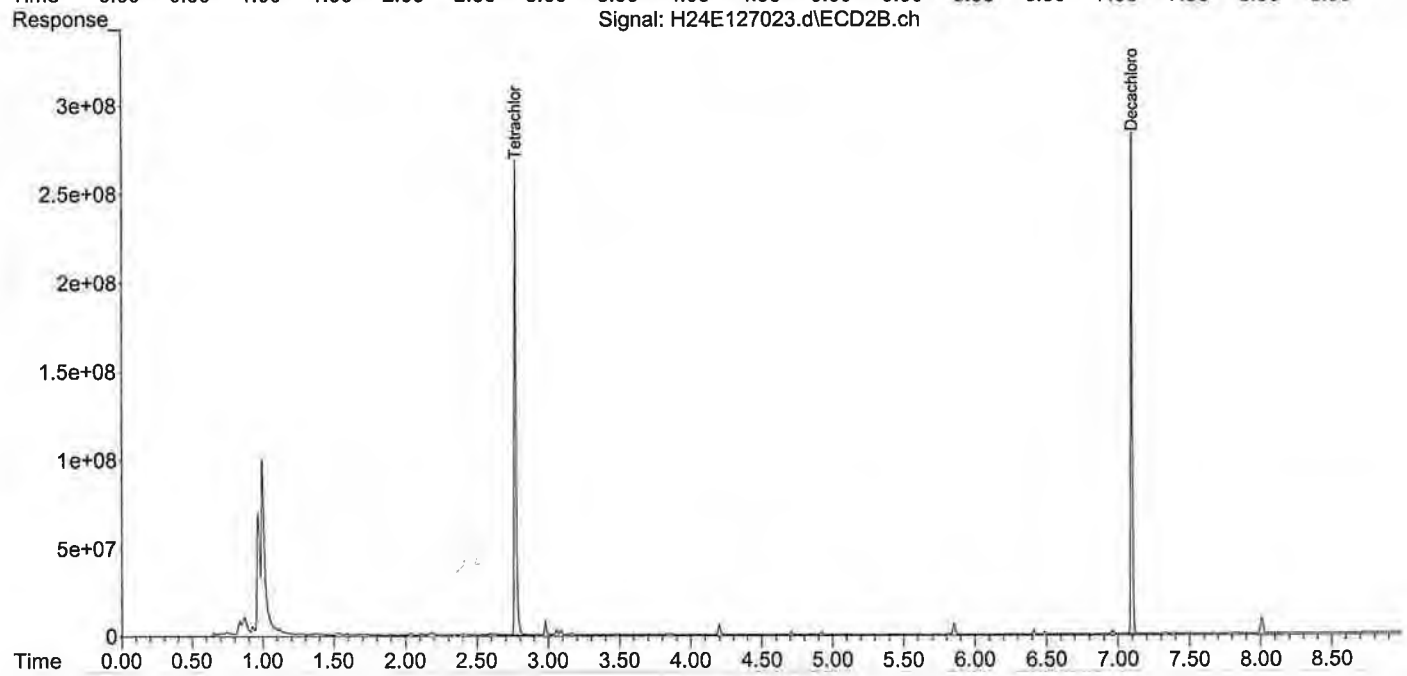
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127023.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 1:17 pm
Operator : PJG
Sample : B374053-BLK1@FLOR Inst : ECD 8
Misc :
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:35:28 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





1 - FORM I
ANALYSIS DATA SHEET

LCS

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374053-BS1	File ID:	H24E127021.d
Sampled:		Prepared:	05/10/24 15:22	Analyzed:	05/14/24 12:53
Solids:		Preparation:	SW-846 3546	Dilution:	
Initial/Final:	10.05 g / 10 mL				
Batch:	B374053	Sequence:	S104592	Calibration:	2400548
Instrument:	ECD 8				
Column:	1				

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
5103-71-9	alpha-Chlordane	0.088	0.0023	0.0050	
5103-74-2	gamma-Chlordane	0.084	0.0022	0.0050	
309-00-2	Aldrin	0.086	0.00049	0.0050	
319-84-6	alpha-BHC	0.085	0.0024	0.0050	
319-85-7	beta-BHC	0.081	0.0026	0.0050	
319-86-8	delta-BHC	0.085	0.0026	0.0050	
58-89-9	gamma-BHC (Lindane)	0.082	0.00069	0.0020	
72-54-8	4,4'-DDD	0.093	0.00084	0.0040	
72-55-9	4,4'-DDE	0.092	0.00044	0.0040	
50-29-3	4,4'-DDT	0.091	0.00051	0.0040	
60-57-1	Dieldrin	0.090	0.00047	0.0040	
959-98-8	Endosulfan I	0.090	0.0024	0.0050	
33213-65-9	Endosulfan II	0.088	0.0021	0.0080	
1031-07-8	Endosulfan Sulfate	0.070	0.0019	0.0080	
72-20-8	Endrin	0.095	0.0025	0.0080	
7421-93-4	Endrin Aldehyde	0.074	0.0020	0.0080	
53494-70-5	Endrin Ketone	0.086	0.0020	0.0080	
76-44-8	Heptachlor	0.088	0.00055	0.0050	
1024-57-3	Heptachlor Epoxide	0.087	0.00058	0.0050	
72-43-5	Methoxychlor	0.074	0.0059	0.050	R-05

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127021.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 12:53 pm
Operator : PJG
Sample : B374053-BS1@FLOR TBA Inst : ECD 8
Misc : mix[s,t]
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:11:30 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
		System Monitoring Compounds							
1)	S	Tetrachlo...	2.906	2.769	4134.8E6	3108.3E6	150.559	155.362	
24)	S	Decachlor...	7.055	7.097	3908.9E6	2993.2E6	176.089	188.539	
		Target Compounds							
2)	T	Hexachlor...	3.224	3.137	2366.1E6	1776.3E6	78.507	80.017	
3)	T	alpha-BHC	3.363	3.251	3497.6E6	2468.5E6	85.411	86.299	
4)	T	gamma-BHC	3.623	3.531	3111.5E6	2333.0E6	82.844	87.386	
5)	T	Beta-BHC	3.692	3.599	1305.7E6	950.0E6	81.455	83.946	
6)	T	Delta-BHC	3.838	3.829	3007.1E6	2221.9E6	85.166	86.680	
7)	T	Heptachlor	4.011	3.879	3159.0E6	2344.7E6	87.732	91.186	
8)	T	Aldrin	4.258	4.134	3054.5E6	2331.7E6	86.746	90.874	
9)	T	Alachlor	4.375	4.063	339.1E6	234.0E6	79.834	79.693	
10)	T	Heptachlo...	4.755	4.592	2815.8E6	2104.3E6	88.898	91.267	
11)	T	Y-Chlordane	4.855	4.744	2891.2E6	2226.3E6	84.879	93.528	
12)	T	A-Chlordane	4.964	4.862	2805.9E6	2141.7E6	88.710	93.523	
13)	T	4,4-DDE	5.025	5.005	2870.0E6	2202.0E6	92.473	96.387	
14)	T	Endo-I	5.078	4.905	2631.4E6	2010.9E6	89.993	94.921	
15)	T	Dieldrin	5.275	5.127	2998.4E6	2259.5E6	90.624	95.667	
16)	T	Endrin	5.467	5.372	2653.8E6	1982.9E6	95.440	98.992	
17)	T	4,4-DDD	5.516	5.474	2399.6E6	1847.0E6	93.675	99.059	
18)	T	Endo-II	5.651	5.545	2424.6E6	1906.7E6	88.049	95.493	
19)	T	4,4-DDT	5.746	5.731	2442.8E6	1780.1E6	91.572	92.079	
20)	T	Endrin Al...	5.990	5.823	92777903	86345628	~~4.418~~	~~5.621~~	#
21)	T	Methoxychlor	6.118	6.250	1040.7E6	927.5E6	74.337	89.484	
22)	T	End Sulf	6.302	6.037	1807.3E6	1678.8E6	70.665	89.225	#
23)	T	Endrin Ke...	6.487	6.400	2630.3E6	1937.3E6	86.635	88.764	
25)	L8	Chlordane{1}	0.000	0.000	0	0	N.D. d	N.D. d	
26)	L8	Chlordane{2}	0.000	0.000	0	0	N.D. d	N.D. d	
27)	L8	Chlordane{3}	0.000	0.000	0	0	N.D. d	N.D. d	
28)	L8	Chlordane{4}	0.000	0.000	0	0	N.D. d	N.D. d	
29)	L8	Chlordane{5}	0.000	0.000	0	0	N.D. d	N.D. d	
		Sum Chlordane			0	0	N.D.	N.D.	
Average		Chlordane					0.000	0.000	
30)	H	Toxaphene	0.000	0.000	0	0	N.D. d	N.D. d	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

CHECKED BY:

MAY 15 2024

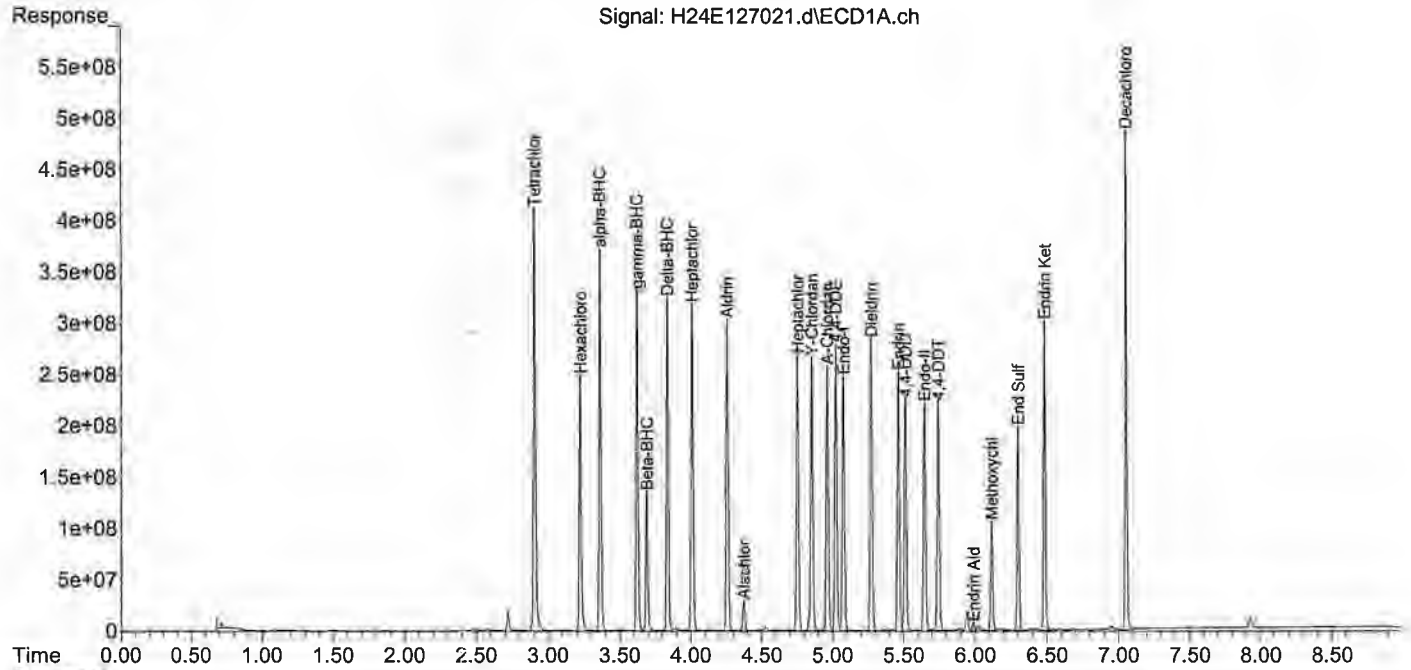
Todd Gionfriddo

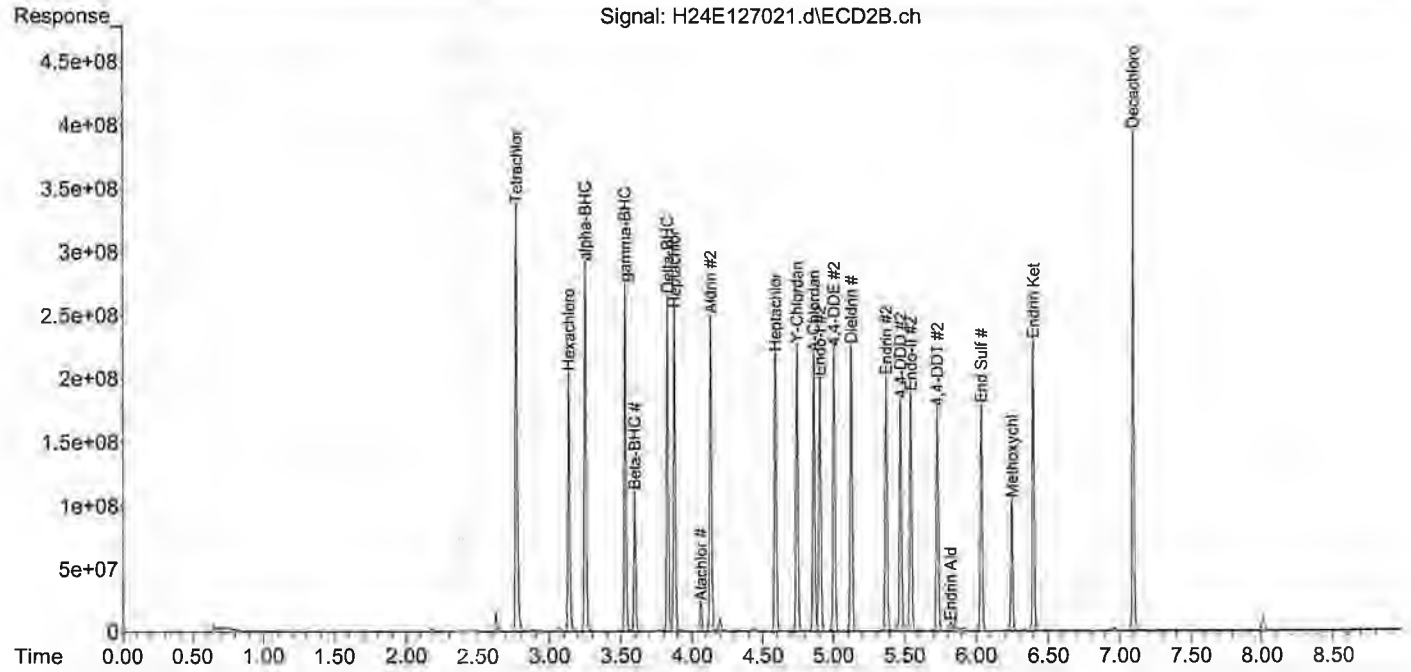
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127021.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 12:53 pm
Operator : PJG
Sample : B374053-BS1@FLOR TBA Inst : ECD 8
Misc : mix[s,t]
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:11:30 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127024.d
Signal(s) : Signal #1: ECD1A.ch, Signal #2: ECD2B.ch
Acq On : 14 May 2024 1:29 pm
Operator : PJG
Sample : B374053-BS1@FLOR Inst : ECD 8
Misc : mix[s,t]
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:11:42 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
		System Monitoring Compounds						
1)	S	Tetrachlo...	2.906	2.769	4136.7E6	3079.8E6	150.628	153.938
24)	S	Decachlor...	7.055	7.097	3847.6E6	2924.6E6	173.326	184.217
		Target Compounds						
2)	T	Hexachlor...	3.224	3.137	2376.7E6	1771.4E6	78.859	79.797
3)	T	alpha-BHC	3.363	3.251	3508.0E6	2486.2E6	85.665	86.917
4)	T	gamma-BHC	3.623	3.531	3135.6E6	2361.3E6	83.485	88.448
5)	T	Beta-BHC	3.691	3.599	1375.2E6	1006.1E6	85.786	88.907
6)	T	Delta-BHC	3.837	3.829	3138.2E6	2275.0E6	88.878	88.752
7)	T	Heptachlor	4.011	3.878	3144.2E6	2326.7E6	87.322	90.487
8)	T	Aldrin	4.258	4.133	2983.6E6	2293.0E6	84.733	89.368
9)	T	Alachlor	4.374	4.063	386.8E6	266.9E6	91.065	90.900
10)	T	Heptachlo...	4.754	4.592	2770.0E6	2071.6E6	87.450	89.848
11)	T	Y-Chlordane	4.855	4.743	2846.4E6	2189.1E6	83.564	91.963
12)	T	A-Chlordane	4.964	4.862	2742.3E6	2108.9E6	86.699	92.091
13)	T	4,4-DDE	5.025	5.004	2817.5E6	2167.3E6	90.781	94.868
14)	T	Endo-I	5.078	4.905	2601.8E6	1985.2E6	88.982	93.709
15)	T	Dieldrin	5.274	5.126	2977.2E6	2250.6E6	89.981	95.291
16)	T	Endrin	5.467	5.372	2661.4E6	1976.1E6	95.714	98.653
17)	T	4,4-DDD	5.515	5.473	2369.2E6	1810.1E6	92.486	97.081
18)	T	Endo-II	5.650	5.545	2435.5E6	1908.1E6	88.447	95.565
19)	T	4,4-DDT	5.746	5.731	2475.5E6	1847.3E6	92.799	95.553
20)	T	Endrin Al...	5.989	5.823	1562.2E6	1285.8E6	74.395	83.698
21)	T	Methoxychlor	6.118	6.250	1096.0E6	954.6E6	78.286	92.105
22)	T	End Sulf	6.302	6.037	1894.5E6	1746.0E6	74.073	92.796 #
23)	T	Endrin Ke...	6.487	6.400	2711.2E6	2007.7E6	89.300	91.988
25)	L8	Chlordane{1}	0.000	0.000	0	0	N.D. d	N.D. d
26)	L8	Chlordane{2}	0.000	0.000	0	0	N.D. d	N.D. d
27)	L8	Chlordane{3}	0.000	0.000	0	0	N.D. d	N.D.
28)	L8	Chlordane{4}	0.000	0.000	0	0	N.D. d	N.D. d
29)	L8	Chlordane{5}	0.000	0.000	0	0	N.D. d	N.D. d
		Sum Chlordane			0	0	N.D.	N.D.
Average		Chlordane					0.000	0.000
30)	H	Toxaphene	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

CHECKED BY:

MAY 15 2024

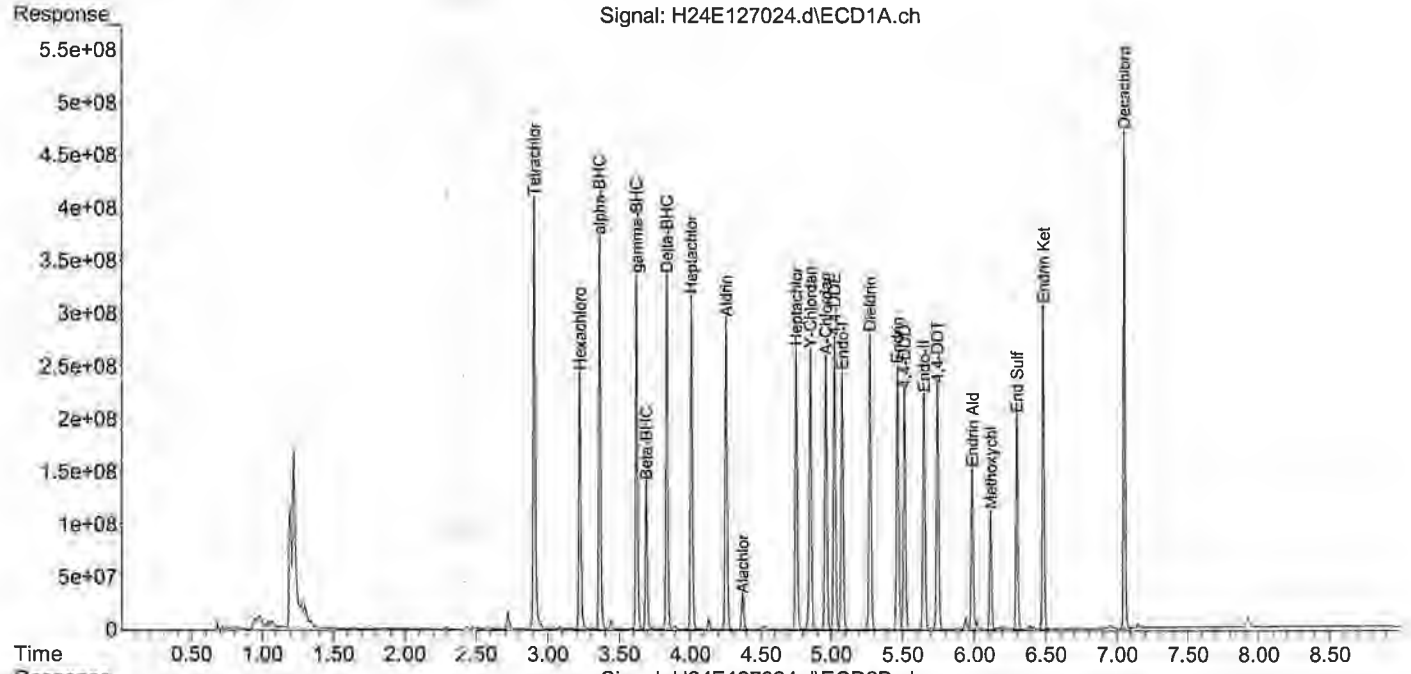
Todd Gionfriddo

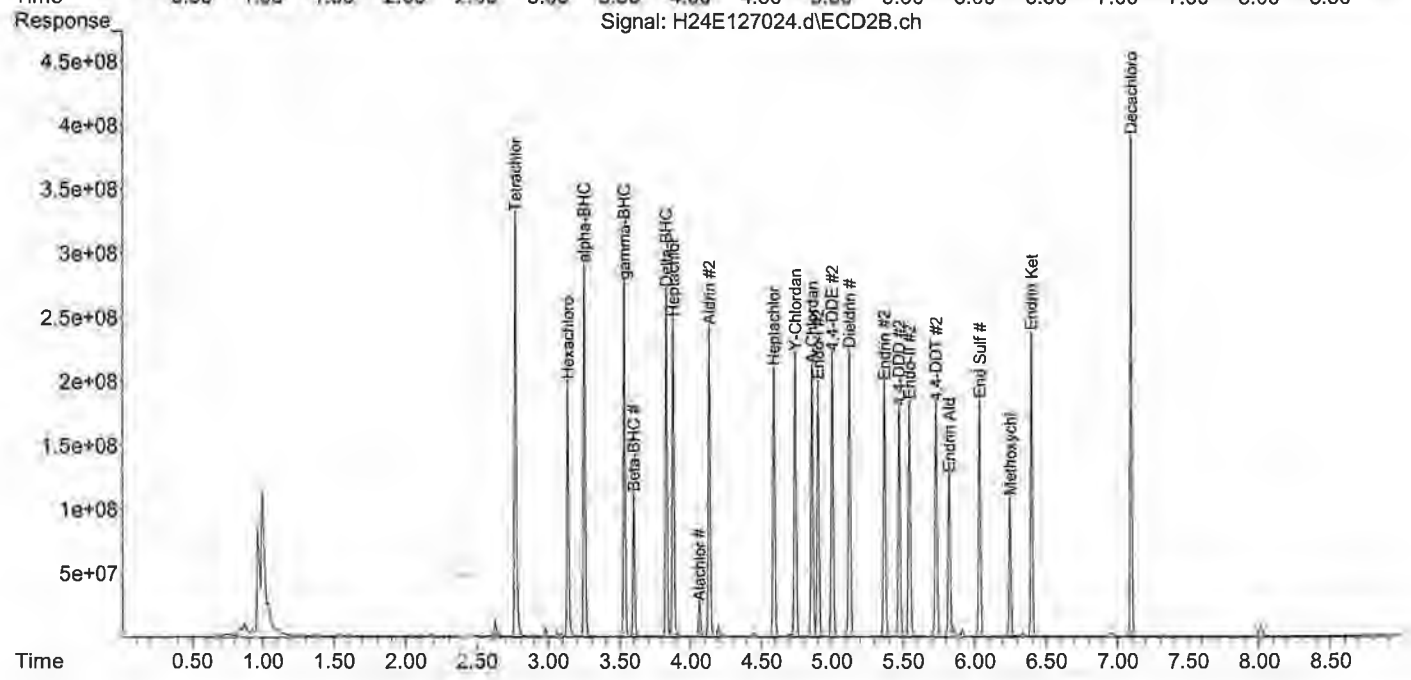
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127024.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 1:29 pm
Operator : PJG
Sample : B374053-BS1@FLOR Inst : ECD 8
Misc : mix[s,t]
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:11:42 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





1 - FORM I
ANALYSIS DATA SHEET

LCS

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374053-BS1	File ID:	H24E127021.d
Sampled:		Prepared:	05/10/24 15:22	Analyzed:	05/14/24 12:53
Solids:		Preparation:	SW-846 3546	Dilution:	
Initial/Final:	10.05 g / 10 mL				
Batch:	B374053	Sequence:	S104592	Calibration:	2400548
Instrument:	ECD 8				
Column:	2				

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
5103-71-9	alpha-Chlordane [2C]	0.093	0.0019	0.0050	
5103-74-2	gamma-Chlordane [2C]	0.093	0.0021	0.0050	
309-00-2	Aldrin [2C]	0.090	0.00055	0.0050	
319-84-6	alpha-BHC [2C]	0.086	0.0020	0.0050	
319-85-7	beta-BHC [2C]	0.084	0.0020	0.0050	
319-86-8	delta-BHC [2C]	0.086	0.0020	0.0050	
58-89-9	gamma-BHC (Lindane) [2C]	0.087	0.00065	0.0020	
72-54-8	4,4'-DDD [2C]	0.099	0.00055	0.0040	V-06
72-55-9	4,4'-DDE [2C]	0.096	0.00065	0.0040	
50-29-3	4,4'-DDT [2C]	0.092	0.00056	0.0040	
60-57-1	Dieldrin [2C]	0.095	0.00056	0.0040	
959-98-8	Endosulfan I [2C]	0.094	0.0020	0.0050	
33213-65-9	Endosulfan II [2C]	0.095	0.0018	0.0080	
1031-07-8	Endosulfan Sulfate [2C]	0.089	0.0019	0.0080	
72-20-8	Endrin [2C]	0.098	0.0021	0.0080	
7421-93-4	Endrin Aldehyde [2C]	0.083	0.0021	0.0080	
53494-70-5	Endrin Ketone [2C]	0.088	0.0021	0.0080	
76-44-8	Heptachlor [2C]	0.091	0.00063	0.0050	
1024-57-3	Heptachlor Epoxide [2C]	0.091	0.00058	0.0050	
72-43-5	Methoxychlor [2C]	0.089	0.0048	0.050	

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127021.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 12:53 pm
Operator : PJG
Sample : B374053-BS1@FLOR TBA Inst : ECD 8
Misc : mix[s,t]
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:11:30 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
		System Monitoring Compounds							
1)	S	Tetrachlo...	2.906	2.769	4134.8E6	3108.3E6	150.559	155.362	
24)	S	Decachlor...	7.055	7.097	3908.9E6	2993.2E6	176.089	188.539	
		Target Compounds							
2)	T	Hexachlor...	3.224	3.137	2366.1E6	1776.3E6	78.507	80.017	
3)	T	alpha-BHC	3.363	3.251	3497.6E6	2468.5E6	85.411	86.299	
4)	T	gamma-BHC	3.623	3.531	3111.5E6	2333.0E6	82.844	87.386	
5)	T	Beta-BHC	3.692	3.599	1305.7E6	950.0E6	81.455	83.946	
6)	T	Delta-BHC	3.838	3.829	3007.1E6	2221.9E6	85.166	86.680	
7)	T	Heptachlor	4.011	3.879	3159.0E6	2344.7E6	87.732	91.186	
8)	T	Aldrin	4.258	4.134	3054.5E6	2331.7E6	86.746	90.874	
9)	T	Alachlor	4.375	4.063	339.1E6	234.0E6	79.834	79.693	
10)	T	Heptachlo...	4.755	4.592	2815.8E6	2104.3E6	88.898	91.267	
11)	T	Y-Chlordane	4.855	4.744	2891.2E6	2226.3E6	84.879	93.528	
12)	T	A-Chlordane	4.964	4.862	2805.9E6	2141.7E6	88.710	93.523	
13)	T	4,4-DDE	5.025	5.005	2870.0E6	2202.0E6	92.473	96.387	
14)	T	Endo-I	5.078	4.905	2631.4E6	2010.9E6	89.993	94.921	
15)	T	Dieldrin	5.275	5.127	2998.4E6	2259.5E6	90.624	95.667	
16)	T	Endrin	5.467	5.372	2653.8E6	1982.9E6	95.440	98.992	
17)	T	4,4-DDD	5.516	5.474	2399.6E6	1847.0E6	93.675	99.059	
18)	T	Endo-II	5.651	5.545	2424.6E6	1906.7E6	88.049	95.493	
19)	T	4,4-DDT	5.746	5.731	2442.8E6	1780.1E6	91.572	92.079	
20)	T	Endrin Al...	5.990	5.823	92777903	86345628	~~4.418~~	~~5.621~~	#
21)	T	Methoxychlor	6.118	6.250	1040.7E6	927.5E6	74.337	89.484	
22)	T	End Sulf	6.302	6.037	1807.3E6	1678.8E6	70.665	89.225	#
23)	T	Endrin Ke...	6.487	6.400	2630.3E6	1937.3E6	86.635	88.764	
25)	L8	Chlordane{1}	0.000	0.000	0	0	N.D. d	N.D. d	
26)	L8	Chlordane{2}	0.000	0.000	0	0	N.D. d	N.D. d	
27)	L8	Chlordane{3}	0.000	0.000	0	0	N.D. d	N.D. d	
28)	L8	Chlordane{4}	0.000	0.000	0	0	N.D. d	N.D. d	
29)	L8	Chlordane{5}	0.000	0.000	0	0	N.D. d	N.D. d	
		Sum Chlordane			0	0	N.D.	N.D.	
Average		Chlordane					0.000	0.000	
30)	H	Toxaphene	0.000	0.000	0	0	N.D. d	N.D. d	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

CHECKED BY:

MAY 15 2024

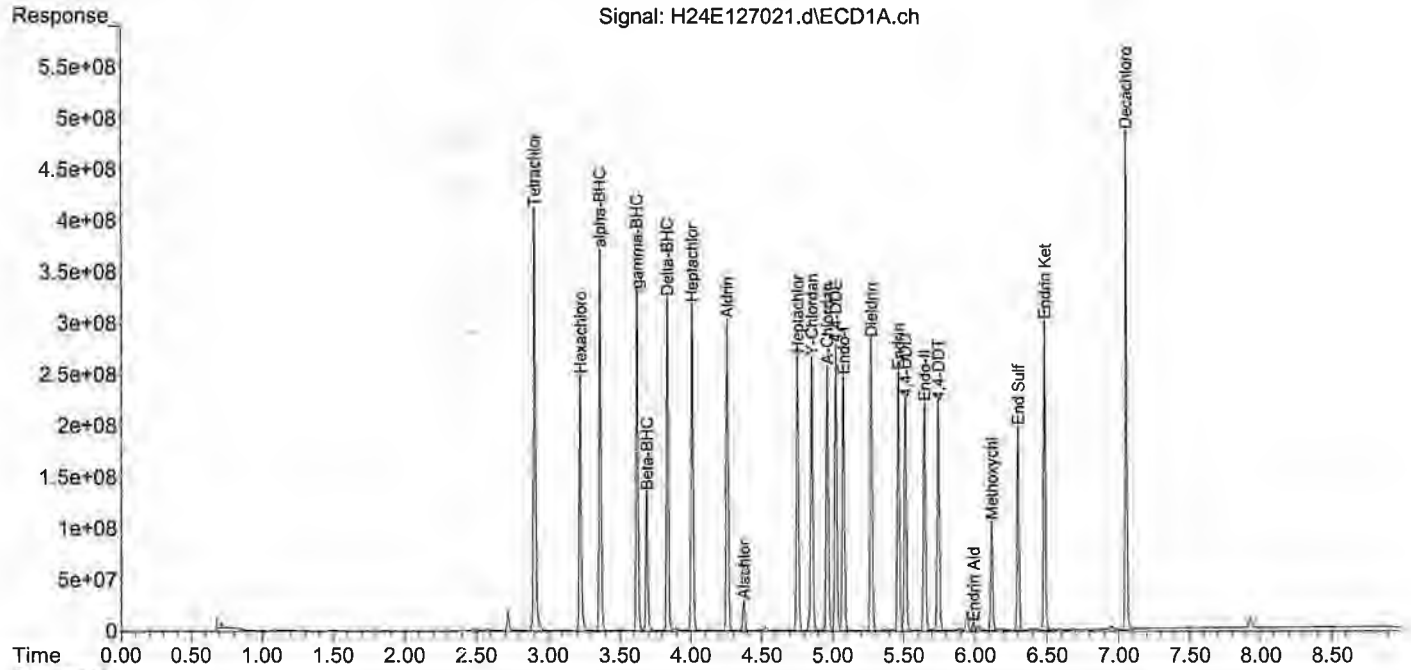
Todd Gionfriddo

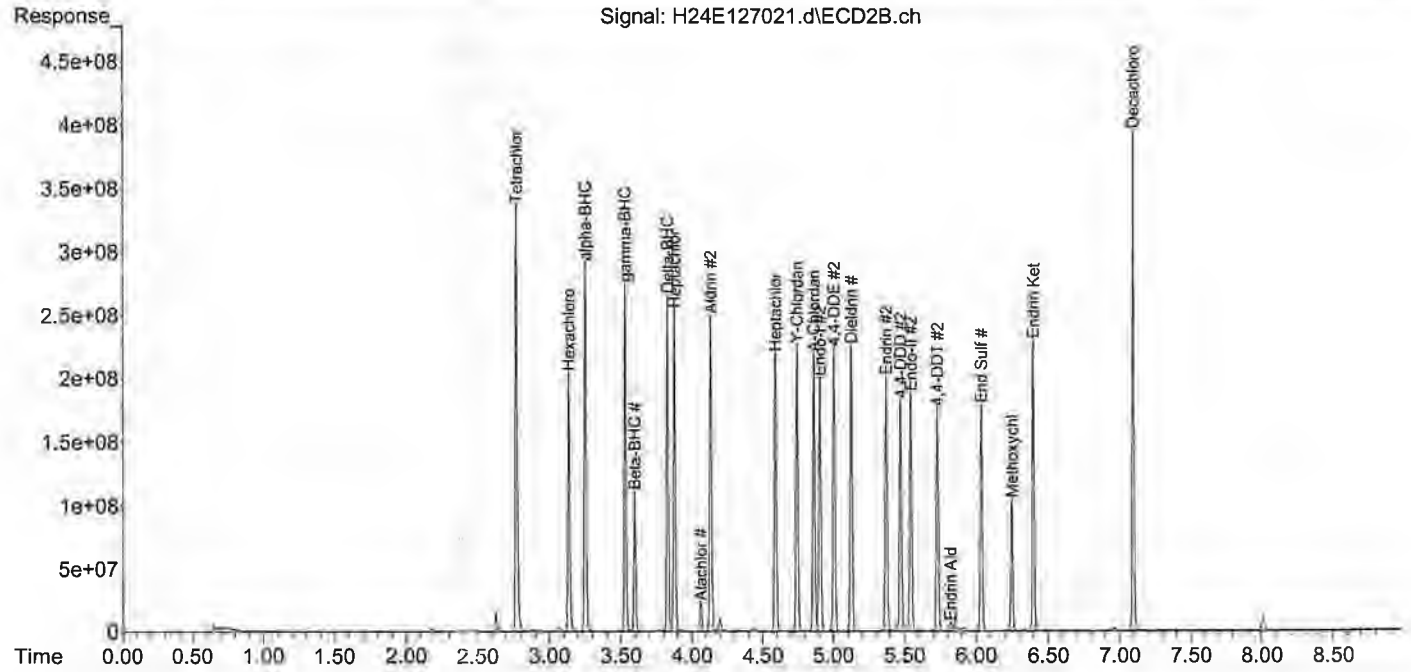
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127021.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 12:53 pm
Operator : PJG
Sample : B374053-BS1@FLOR TBA Inst : ECD 8
Misc : mix[s,t]
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:11:30 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127024.d
Signal(s) : Signal #1: ECD1A.ch, Signal #2: ECD2B.ch
Acq On : 14 May 2024 1:29 pm
Operator : PJG
Sample : B374053-BS1@FLOR Inst : ECD 8
Misc : mix[s,t]
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:11:42 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
		System Monitoring Compounds						
1)	S	Tetrachlo...	2.906	2.769	4136.7E6	3079.8E6	150.628	153.938
24)	S	Decachlor...	7.055	7.097	3847.6E6	2924.6E6	173.326	184.217
		Target Compounds						
2)	T	Hexachlor...	3.224	3.137	2376.7E6	1771.4E6	78.859	79.797
3)	T	alpha-BHC	3.363	3.251	3508.0E6	2486.2E6	85.665	86.917
4)	T	gamma-BHC	3.623	3.531	3135.6E6	2361.3E6	83.485	88.448
5)	T	Beta-BHC	3.691	3.599	1375.2E6	1006.1E6	85.786	88.907
6)	T	Delta-BHC	3.837	3.829	3138.2E6	2275.0E6	88.878	88.752
7)	T	Heptachlor	4.011	3.878	3144.2E6	2326.7E6	87.322	90.487
8)	T	Aldrin	4.258	4.133	2983.6E6	2293.0E6	84.733	89.368
9)	T	Alachlor	4.374	4.063	386.8E6	266.9E6	91.065	90.900
10)	T	Heptachlo...	4.754	4.592	2770.0E6	2071.6E6	87.450	89.848
11)	T	Y-Chlordane	4.855	4.743	2846.4E6	2189.1E6	83.564	91.963
12)	T	A-Chlordane	4.964	4.862	2742.3E6	2108.9E6	86.699	92.091
13)	T	4,4-DDE	5.025	5.004	2817.5E6	2167.3E6	90.781	94.868
14)	T	Endo-I	5.078	4.905	2601.8E6	1985.2E6	88.982	93.709
15)	T	Dieldrin	5.274	5.126	2977.2E6	2250.6E6	89.981	95.291
16)	T	Endrin	5.467	5.372	2661.4E6	1976.1E6	95.714	98.653
17)	T	4,4-DDD	5.515	5.473	2369.2E6	1810.1E6	92.486	97.081
18)	T	Endo-II	5.650	5.545	2435.5E6	1908.1E6	88.447	95.565
19)	T	4,4-DDT	5.746	5.731	2475.5E6	1847.3E6	92.799	95.553
20)	T	Endrin Al...	5.989	5.823	1562.2E6	1285.8E6	74.395	83.698
21)	T	Methoxychlor	6.118	6.250	1096.0E6	954.6E6	78.286	92.105
22)	T	End Sulf	6.302	6.037	1894.5E6	1746.0E6	74.073	92.796 #
23)	T	Endrin Ke...	6.487	6.400	2711.2E6	2007.7E6	89.300	91.988
25)	L8	Chlordane{1}	0.000	0.000	0	0	N.D. d	N.D. d
26)	L8	Chlordane{2}	0.000	0.000	0	0	N.D. d	N.D. d
27)	L8	Chlordane{3}	0.000	0.000	0	0	N.D. d	N.D.
28)	L8	Chlordane{4}	0.000	0.000	0	0	N.D. d	N.D. d
29)	L8	Chlordane{5}	0.000	0.000	0	0	N.D. d	N.D. d
		Sum Chlordane			0	0	N.D.	N.D.
Average		Chlordane					0.000	0.000
30)	H	Toxaphene	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

CHECKED BY:

MAY 15 2024

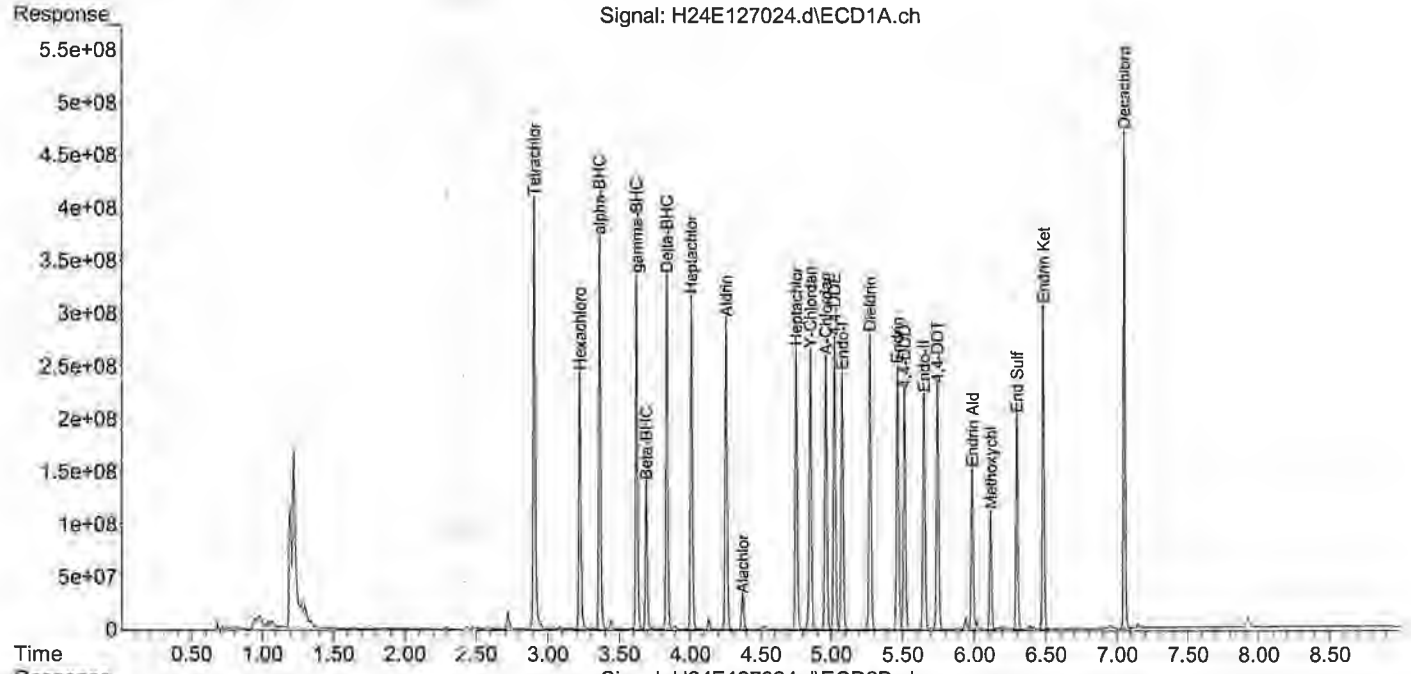
Todd Gionfriddo

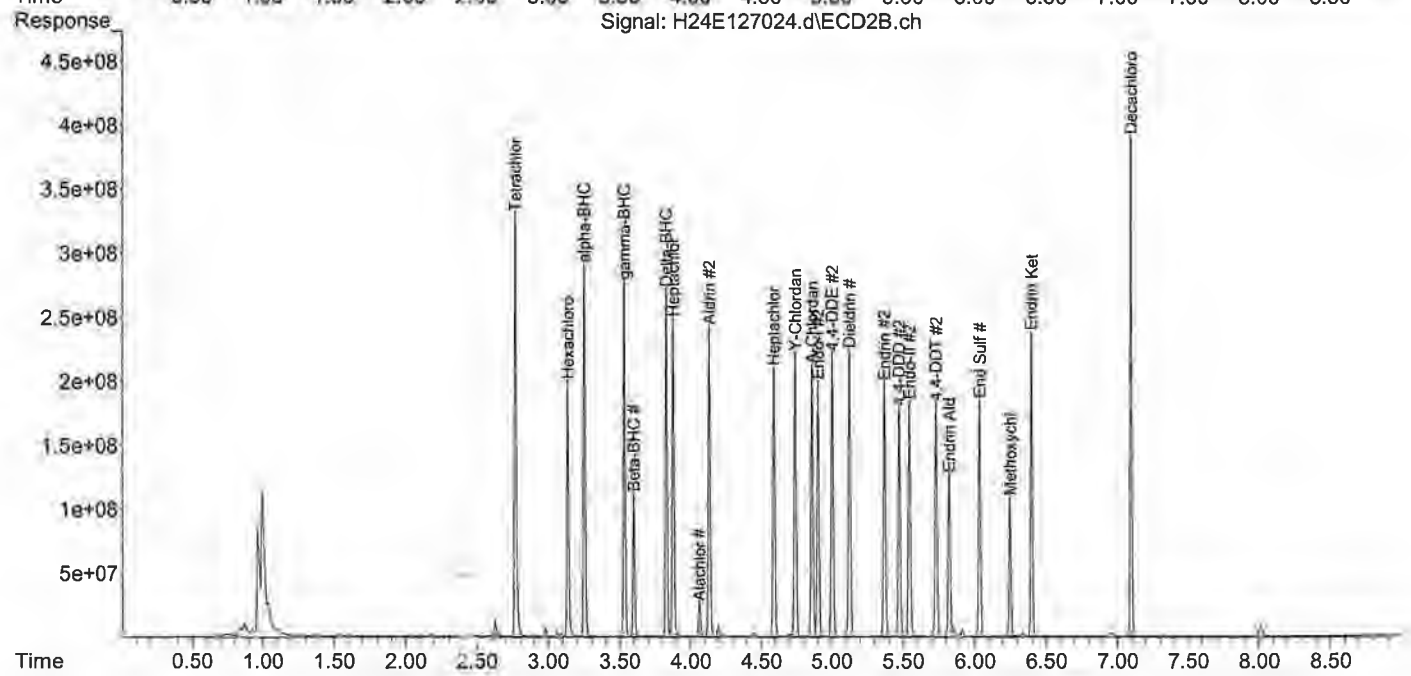
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127024.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 1:29 pm
Operator : PJG
Sample : B374053-BS1@FLOR Inst : ECD 8
Misc : mix[s,t]
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:11:42 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





1 - FORM I
ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374053-BSD1	File ID:	H24E127022.d
Sampled:		Prepared:	05/10/24 15:22	Analyzed:	05/14/24 13:05
Solids:		Preparation:	SW-846 3546	Dilution:	
Initial/Final:	10.03 g / 10 mL				
Batch:	B374053	Sequence:	S104592	Calibration:	2400548
Instrument:	ECD 8				
Column:	1				

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
5103-71-9	alpha-Chlordane	0.11	0.0023	0.0050	
5103-74-2	gamma-Chlordane	0.10	0.0022	0.0050	
309-00-2	Aldrin	0.10	0.00049	0.0050	
319-84-6	alpha-BHC	0.10	0.0024	0.0050	
319-85-7	beta-BHC	0.094	0.0027	0.0050	
319-86-8	delta-BHC	0.10	0.0026	0.0050	
58-89-9	gamma-BHC (Lindane)	0.099	0.00069	0.0020	
72-54-8	4,4'-DDD	0.12	0.00085	0.0040	
72-55-9	4,4'-DDE	0.11	0.00044	0.0040	
50-29-3	4,4'-DDT	0.12	0.00051	0.0040	
60-57-1	Dieldrin	0.11	0.00047	0.0040	
959-98-8	Endosulfan I	0.11	0.0024	0.0050	
33213-65-9	Endosulfan II	0.11	0.0021	0.0080	
1031-07-8	Endosulfan Sulfate	0.089	0.0019	0.0080	
72-20-8	Endrin	0.12	0.0025	0.0080	
7421-93-4	Endrin Aldehyde	0.085	0.0020	0.0080	
53494-70-5	Endrin Ketone	0.11	0.0020	0.0080	
76-44-8	Heptachlor	0.11	0.00055	0.0050	
1024-57-3	Heptachlor Epoxide	0.11	0.00058	0.0050	
72-43-5	Methoxychlor	0.10	0.0059	0.050	R-05

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127022.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 1:05 pm
Operator : PJG
Sample : B374053-BSD1@FLOR TBA Inst : ECD 8
Misc : mix[s,t]
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:11:34 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
		System Monitoring Compounds							
1)	S	Tetrachlo...	2.906	2.770	5119.2E6	3840.3E6	186.404	191.951	
24)	S	Decachlor...	7.055	7.098	4656.7E6	3507.1E6	209.775	220.909	
		Target Compounds							
2)	T	Hexachlor...	3.225	3.137	2868.8E6	2160.1E6	95.185	97.306	
3)	T	alpha-BHC	3.364	3.252	4267.7E6	3018.8E6	104.216	105.538	
4)	T	gamma-BHC	3.623	3.532	3746.5E6	2811.2E6	99.751	105.297	
5)	T	Beta-BHC	3.692	3.599	1514.5E6	1124.8E6	94.477	99.396	
6)	T	Delta-BHC	3.838	3.830	3592.9E6	2646.0E6	101.756	103.226	
7)	T	Heptachlor	4.011	3.879	3818.4E6	2834.8E6	106.046	110.248	
8)	T	Aldrin	4.258	4.134	3650.5E6	2796.1E6	103.671	108.972	
9)	T	Alachlor	4.374	4.063	390.6E6	278.3E6	91.956	94.792	
10)	T	Heptachlo...	4.754	4.592	3360.0E6	2516.3E6	106.076	109.135	
11)	T	Y-Chlordane	4.855	4.744	3408.6E6	2667.2E6	100.068	112.048	
12)	T	A-Chlordane	4.964	4.862	3360.3E6	2574.7E6	106.240	112.430	
13)	T	4,4-DDE	5.025	5.005	3513.2E6	2697.2E6	113.199	118.062	
14)	T	Endo-I	5.078	4.905	3155.8E6	2411.0E6	107.927	113.806	
15)	T	Dieldrin	5.275	5.127	3624.9E6	2756.6E6	109.558	116.716	
16)	T	Endrin	5.467	5.373	3300.2E6	2454.6E6	118.686	122.544	
17)	T	4,4-DDD	5.516	5.474	2978.4E6	2282.7E6	116.267	122.427	
18)	T	Endo-II	5.651	5.545	2970.9E6	2323.7E6	107.888	116.377	
19)	T	4,4-DDT	5.746	5.731	3113.5E6	2308.4E6	116.717	119.405	
20)	T	Endrin Al...	5.990	5.823	78276667	77832556	~~3.728~~	~~5.066~~	#
21)	T	Methoxychlor	6.118	6.250	1406.4E6	1176.1E6	100.458	113.476	
22)	T	End Sulf	6.302	6.038	2278.5E6	2098.3E6	89.088	111.518	#
23)	T	Endrin Ke...	6.486	6.400	3231.7E6	2393.2E6	106.445	109.649	
25)	L8	Chlordane{1}	0.000	0.000	0	0	N.D. d	N.D. d	
26)	L8	Chlordane{2}	0.000	0.000	0	0	N.D. d	N.D. d	
27)	L8	Chlordane{3}	0.000	0.000	0	0	N.D. d	N.D. d	
28)	L8	Chlordane{4}	0.000	0.000	0	0	N.D. d	N.D. d	
29)	L8	Chlordane{5}	0.000	0.000	0	0	N.D. d	N.D. d	
		Sum Chlordane			0	0	N.D.	N.D.	
		Average Chlordane					0.000	0.000	
30)	H	Toxaphene	0.000	0.000	0	0	N.D. d	N.D. d	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

CHECKED BY:

MAY 15 2024

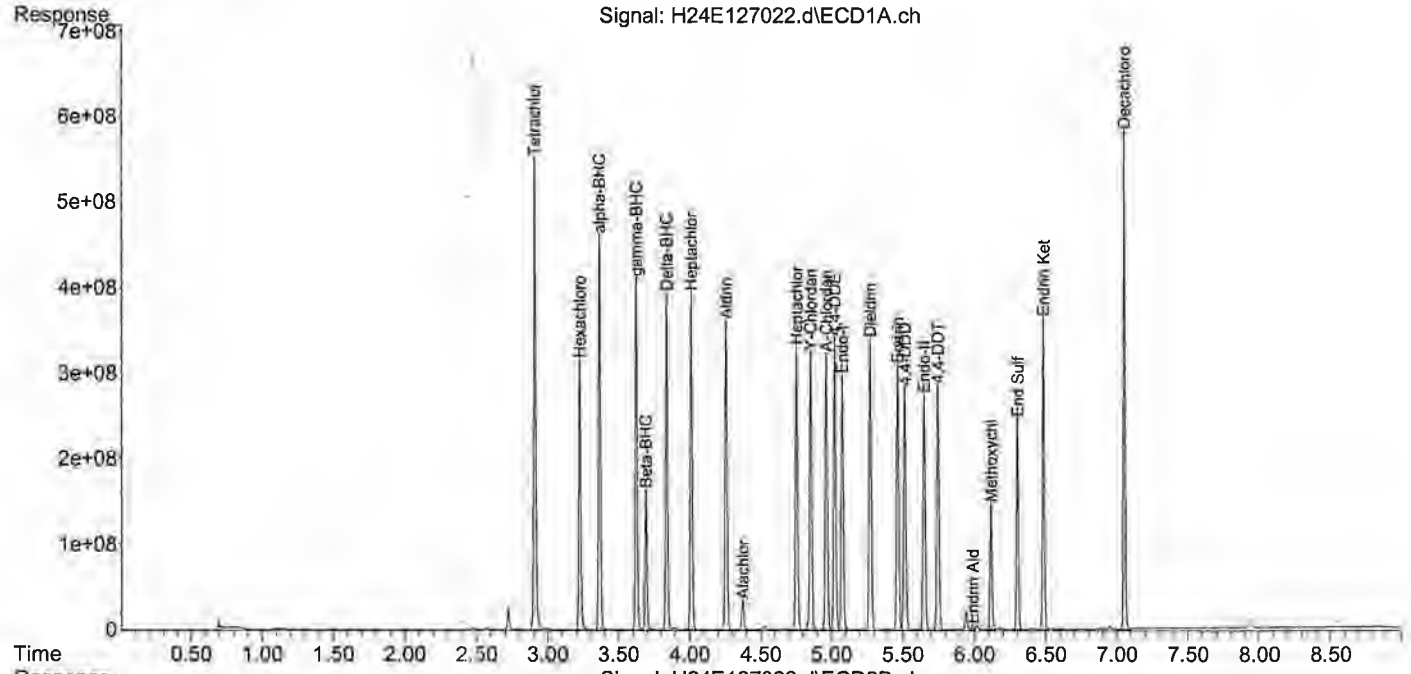
Todd Gionfriddo

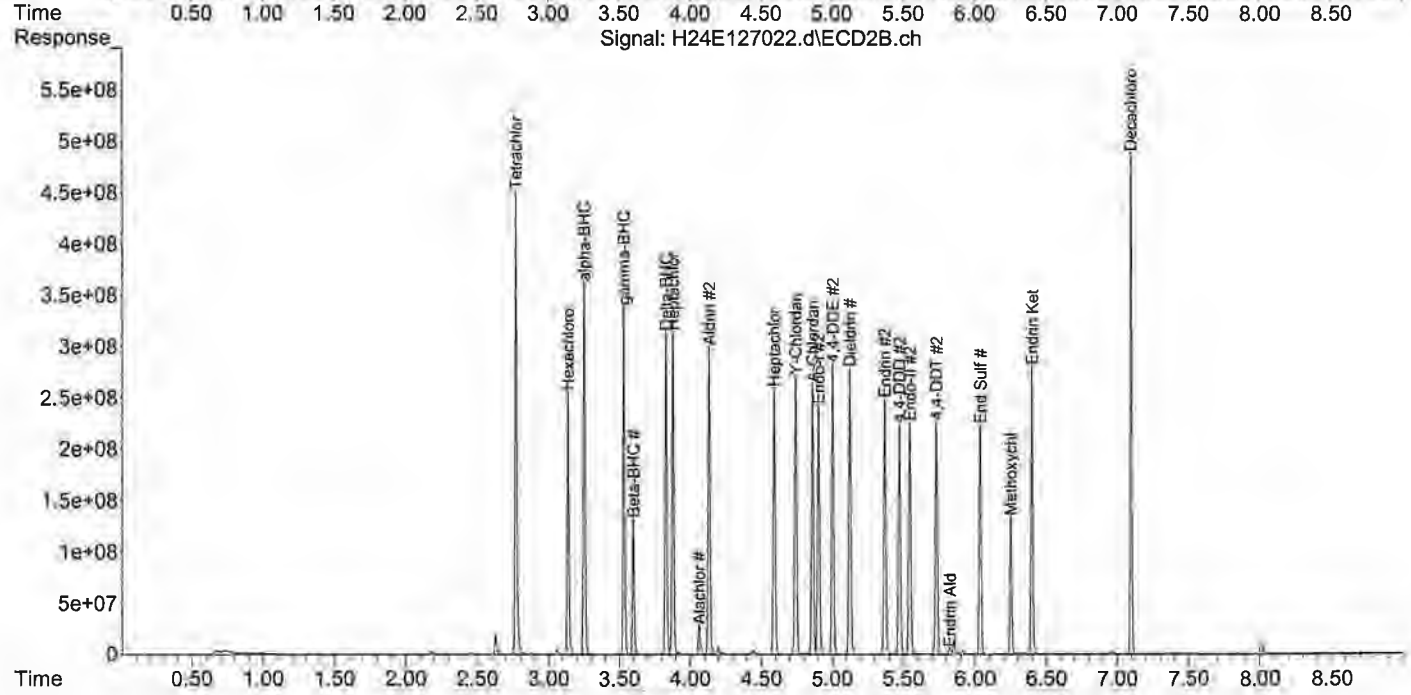
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127022.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 1:05 pm
Operator : PJG
Sample : B374053-BSD1@FLOR TBA Inst : ECD 8
Misc : mix[s,t]
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:11:34 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127025.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 1:41 pm
Operator : PJG
Sample : B374053-BSD1@FLOR Inst : ECD 8
Misc : mix[s,t]
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:11:46 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
		System Monitoring Compounds						
1)	S	Tetrachlo...	2.906	2.769	5033.4E6	3766.8E6	183.279	188.278
24)	S	Decachlor...	7.055	7.098	4371.0E6	3292.4E6	196.905	207.390
		Target Compounds						
2)	T	Hexachlor...	3.224	3.137	2818.8E6	2110.7E6	93.527	95.081
3)	T	alpha-BHC	3.363	3.251	4209.6E6	2986.6E6	102.799	104.412
4)	T	gamma-BHC	3.623	3.531	3698.0E6	2788.9E6	98.459	104.460
5)	T	Beta-BHC	3.692	3.598	1543.9E6	1147.2E6	96.314	101.376
6)	T	Delta-BHC	3.838	3.829	3589.2E6	2614.3E6	101.650	101.990
7)	T	Heptachlor	4.011	3.879	3643.0E6	2712.9E6	101.174	105.509
8)	T	Aldrin	4.257	4.134	3432.3E6	2647.1E6	97.476	103.168
9)	T	Alachlor	4.374	4.063	417.2E6	297.8E6	98.231	101.430
10)	T	Heptachlo...	4.754	4.592	3159.4E6	2371.8E6	99.745	102.866
11)	T	Y-Chlordane	4.855	4.744	3190.0E6	2497.7E6	93.649	104.927
12)	T	A-Chlordane	4.964	4.862	3112.7E6	2405.7E6	98.411	105.051
13)	T	4,4-DDE	5.025	5.005	3201.0E6	2461.5E6	103.139	107.745
14)	T	Endo-I	5.078	4.905	2957.7E6	2261.5E6	101.155	106.751
15)	T	Dieldrin	5.274	5.127	3388.4E6	2573.0E6	102.409	108.940
16)	T	Endrin	5.467	5.372	3015.8E6	2260.1E6	108.458	112.832
17)	T	4,4-DDD	5.516	5.474	2693.3E6	2058.6E6	105.138	110.408
18)	T	Endo-II	5.651	5.545	2803.9E6	2170.2E6	101.823	108.691
19)	T	4,4-DDT	5.747	5.731	2816.3E6	2108.0E6	105.575	109.038
20)	T	Endrin Al...	5.989	5.823	1787.1E6	1461.5E6	85.104	95.133
21)	T	Methoxychlor	6.117	6.250	1259.7E6	1092.1E6	89.983	105.366
22)	T	End Sulf	6.302	6.037	2195.8E6	1982.9E6	85.856	105.384
23)	T	Endrin Ke...	6.487	6.400	3083.6E6	2286.5E6	101.565	104.762
25)	L8	Chlordane{1}	0.000	0.000	0	0	N.D. d	N.D. d
26)	L8	Chlordane{2}	0.000	0.000	0	0	N.D. d	N.D. d
27)	L8	Chlordane{3}	0.000	0.000	0	0	N.D. d	N.D.
28)	L8	Chlordane{4}	0.000	0.000	0	0	N.D. d	N.D. d
29)	L8	Chlordane{5}	0.000	0.000	0	0	N.D. d	N.D. d
		Sum Chlordane			0	0	N.D.	N.D.
		Average Chlordane					0.000	0.000
30)	H	Toxaphene	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

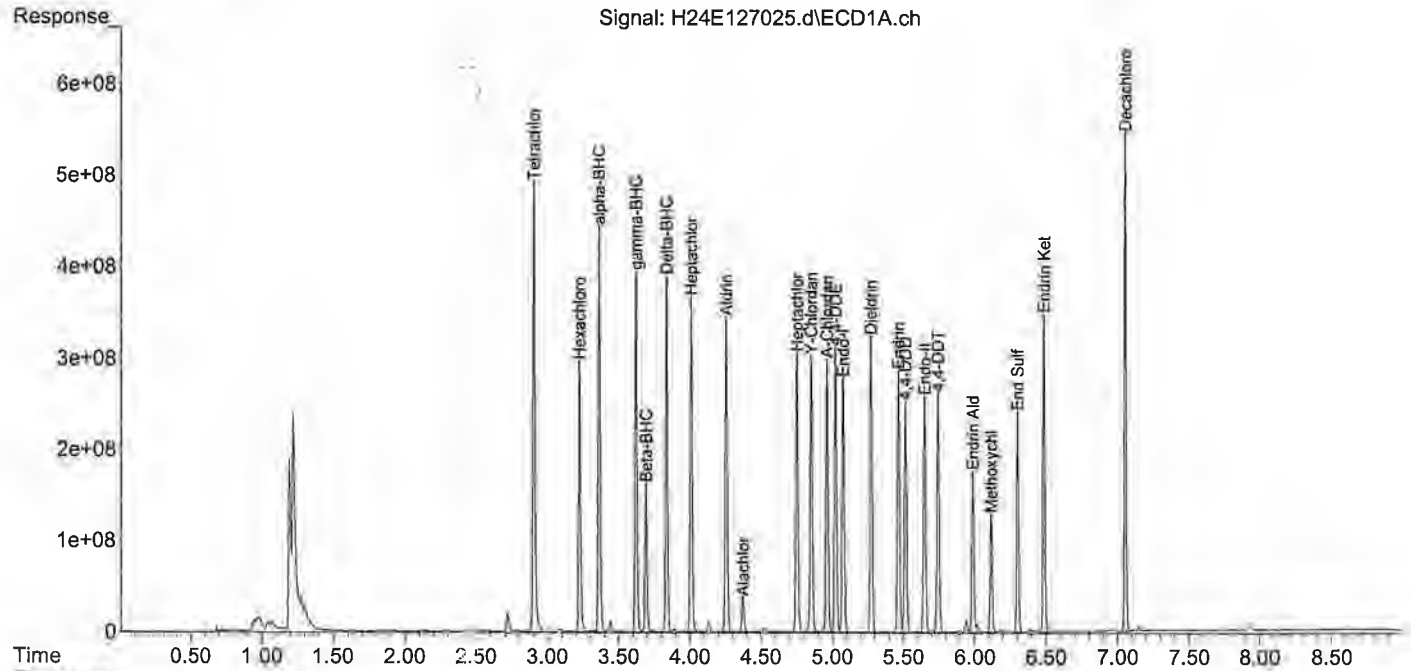
CHECKED BY:
MAY 15 2024
Todd Gionfriddo

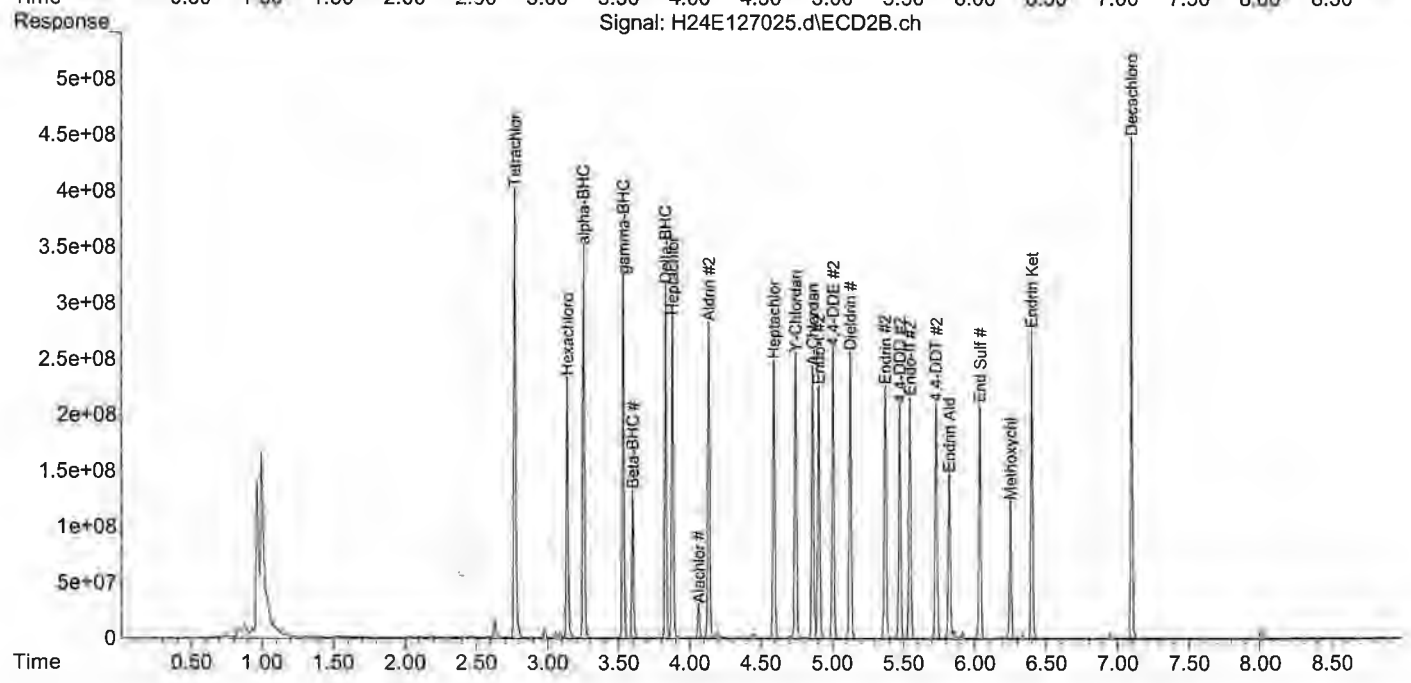
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127025.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 1:41 pm
Operator : PJG
Sample : B374053-BSD1@FLOR Inst : ECD 8
Misc : mix[s,t]
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:11:46 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





1 - FORM I
ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374053-BSD1	File ID:	H24E127022.d
Sampled:		Prepared:	05/10/24 15:22	Analyzed:	05/14/24 13:05
Solids:		Preparation:	SW-846 3546	Dilution:	
Initial/Final:	10.03 g / 10 mL				
Batch:	B374053	Sequence:	S104592	Calibration:	2400548
Instrument:	ECD 8				
Column:	2				

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
5103-71-9	alpha-Chlordane [2C]	0.11	0.0019	0.0050	
5103-74-2	gamma-Chlordane [2C]	0.11	0.0021	0.0050	
309-00-2	Aldrin [2C]	0.11	0.00055	0.0050	
319-84-6	alpha-BHC [2C]	0.11	0.0020	0.0050	
319-85-7	beta-BHC [2C]	0.099	0.0020	0.0050	
319-86-8	delta-BHC [2C]	0.10	0.0020	0.0050	
58-89-9	gamma-BHC (Lindane) [2C]	0.10	0.00065	0.0020	
72-54-8	4,4'-DDD [2C]	0.12	0.00055	0.0040	V-06
72-55-9	4,4'-DDE [2C]	0.12	0.00065	0.0040	
50-29-3	4,4'-DDT [2C]	0.12	0.00056	0.0040	
60-57-1	Dieldrin [2C]	0.12	0.00056	0.0040	
959-98-8	Endosulfan I [2C]	0.11	0.0020	0.0050	
33213-65-9	Endosulfan II [2C]	0.12	0.0019	0.0080	
1031-07-8	Endosulfan Sulfate [2C]	0.11	0.0020	0.0080	
72-20-8	Endrin [2C]	0.12	0.0021	0.0080	
7421-93-4	Endrin Aldehyde [2C]	0.095	0.0021	0.0080	
53494-70-5	Endrin Ketone [2C]	0.11	0.0021	0.0080	
76-44-8	Heptachlor [2C]	0.11	0.00063	0.0050	
1024-57-3	Heptachlor Epoxide [2C]	0.11	0.00058	0.0050	
72-43-5	Methoxychlor [2C]	0.11	0.0048	0.050	

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127022.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 1:05 pm
Operator : PJG
Sample : B374053-BSD1@FLOR TBA Inst : ECD 8
Misc : mix[s,t]
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:11:34 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
		System Monitoring Compounds							
1)	S	Tetrachlo...	2.906	2.770	5119.2E6	3840.3E6	186.404	191.951	
24)	S	Decachlor...	7.055	7.098	4656.7E6	3507.1E6	209.775	220.909	
		Target Compounds							
2)	T	Hexachlor...	3.225	3.137	2868.8E6	2160.1E6	95.185	97.306	
3)	T	alpha-BHC	3.364	3.252	4267.7E6	3018.8E6	104.216	105.538	
4)	T	gamma-BHC	3.623	3.532	3746.5E6	2811.2E6	99.751	105.297	
5)	T	Beta-BHC	3.692	3.599	1514.5E6	1124.8E6	94.477	99.396	
6)	T	Delta-BHC	3.838	3.830	3592.9E6	2646.0E6	101.756	103.226	
7)	T	Heptachlor	4.011	3.879	3818.4E6	2834.8E6	106.046	110.248	
8)	T	Aldrin	4.258	4.134	3650.5E6	2796.1E6	103.671	108.972	
9)	T	Alachlor	4.374	4.063	390.6E6	278.3E6	91.956	94.792	
10)	T	Heptachlo...	4.754	4.592	3360.0E6	2516.3E6	106.076	109.135	
11)	T	Y-Chlordane	4.855	4.744	3408.6E6	2667.2E6	100.068	112.048	
12)	T	A-Chlordane	4.964	4.862	3360.3E6	2574.7E6	106.240	112.430	
13)	T	4,4-DDE	5.025	5.005	3513.2E6	2697.2E6	113.199	118.062	
14)	T	Endo-I	5.078	4.905	3155.8E6	2411.0E6	107.927	113.806	
15)	T	Dieldrin	5.275	5.127	3624.9E6	2756.6E6	109.558	116.716	
16)	T	Endrin	5.467	5.373	3300.2E6	2454.6E6	118.686	122.544	
17)	T	4,4-DDD	5.516	5.474	2978.4E6	2282.7E6	116.267	122.427	
18)	T	Endo-II	5.651	5.545	2970.9E6	2323.7E6	107.888	116.377	
19)	T	4,4-DDT	5.746	5.731	3113.5E6	2308.4E6	116.717	119.405	
20)	T	Endrin Al...	5.990	5.823	78276667	77832556	~~3.728~~	~~5.066~~	#
21)	T	Methoxychlor	6.118	6.250	1406.4E6	1176.1E6	100.458	113.476	
22)	T	End Sulf	6.302	6.038	2278.5E6	2098.3E6	89.088	111.518	#
23)	T	Endrin Ke...	6.486	6.400	3231.7E6	2393.2E6	106.445	109.649	
25)	L8	Chlordane{1}	0.000	0.000	0	0	N.D. d	N.D. d	
26)	L8	Chlordane{2}	0.000	0.000	0	0	N.D. d	N.D. d	
27)	L8	Chlordane{3}	0.000	0.000	0	0	N.D. d	N.D. d	
28)	L8	Chlordane{4}	0.000	0.000	0	0	N.D. d	N.D. d	
29)	L8	Chlordane{5}	0.000	0.000	0	0	N.D. d	N.D. d	
		Sum Chlordane			0	0	N.D.	N.D.	
		Average Chlordane					0.000	0.000	
30)	H	Toxaphene	0.000	0.000	0	0	N.D. d	N.D. d	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

CHECKED BY:

MAY 15 2024

Todd Gionfriddo

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127022.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 1:05 pm
Operator : PJG
Sample : B374053-BSD1@FLOR TBA Inst : ECD 8
Misc : mix[s,t]
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: pestfront.E
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Quant Time: May 15 15:11:34 2024
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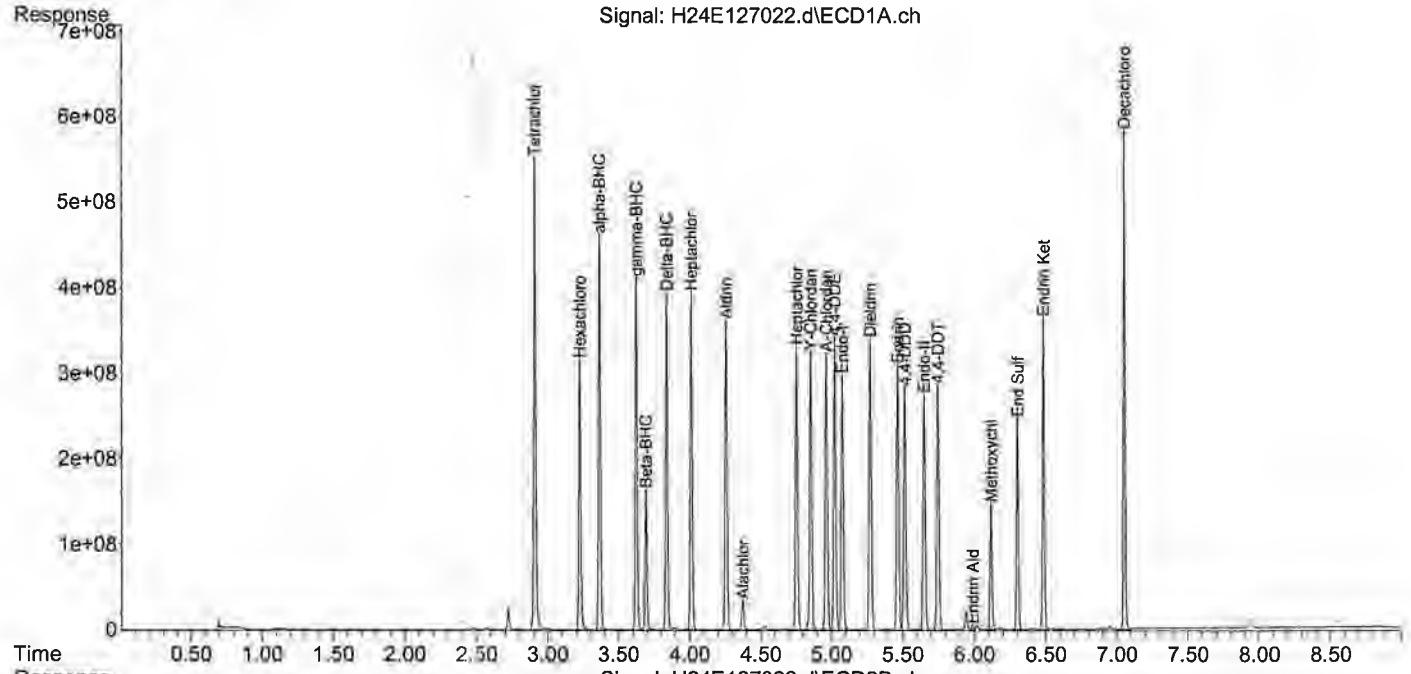
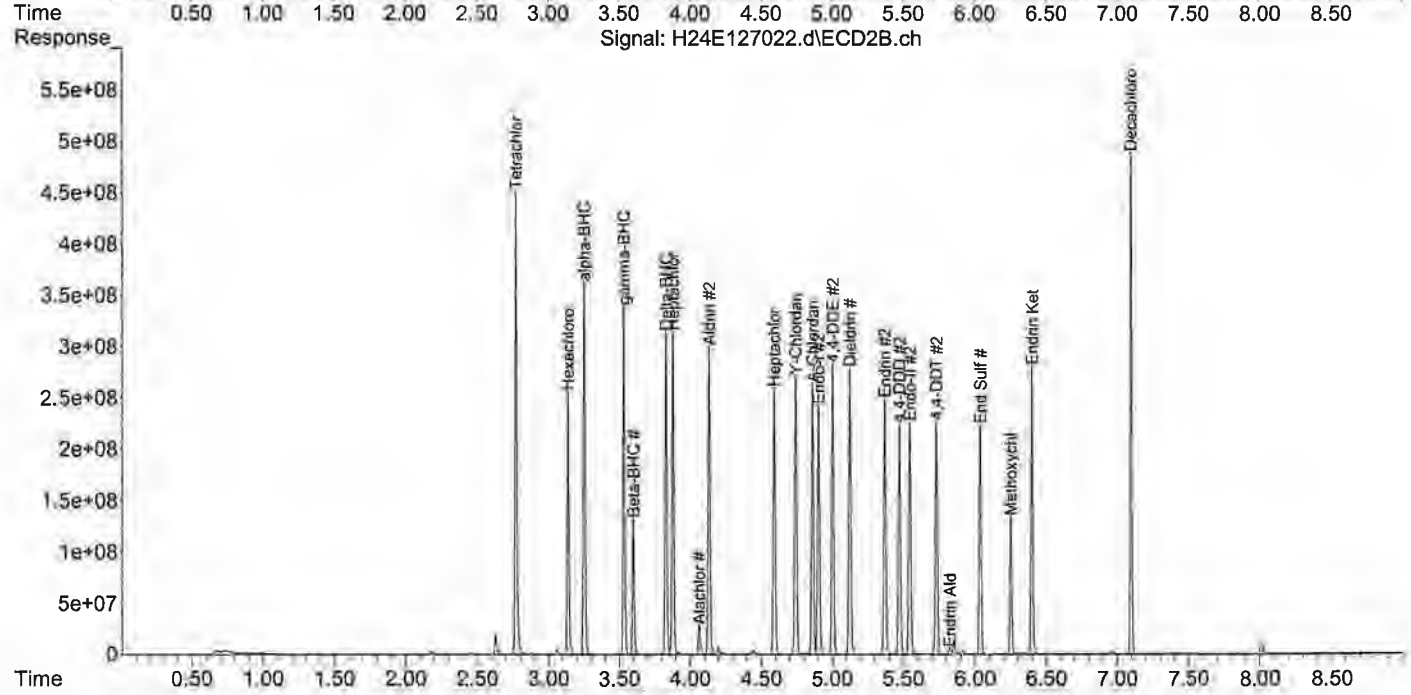
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





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Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
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		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
		System Monitoring Compounds						
1)	S	Tetrachlo...	2.906	2.769	5033.4E6	3766.8E6	183.279	188.278
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11)	T	Y-Chlordane	4.855	4.744	3190.0E6	2497.7E6	93.649	104.927
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25)	L8	Chlordane{1}	0.000	0.000	0	0	N.D. d	N.D. d
26)	L8	Chlordane{2}	0.000	0.000	0	0	N.D. d	N.D. d
27)	L8	Chlordane{3}	0.000	0.000	0	0	N.D. d	N.D.
28)	L8	Chlordane{4}	0.000	0.000	0	0	N.D. d	N.D. d
29)	L8	Chlordane{5}	0.000	0.000	0	0	N.D. d	N.D. d
		Sum Chlordane			0	0	N.D.	N.D.
		Average Chlordane					0.000	0.000
30)	H	Toxaphene	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

CHECKED BY:

MAY 15 2024

Todd Gionfriddo

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127025.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 1:41 pm
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Integration File signal 1: pestfront.E
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Quant Time: May 15 15:11:46 2024
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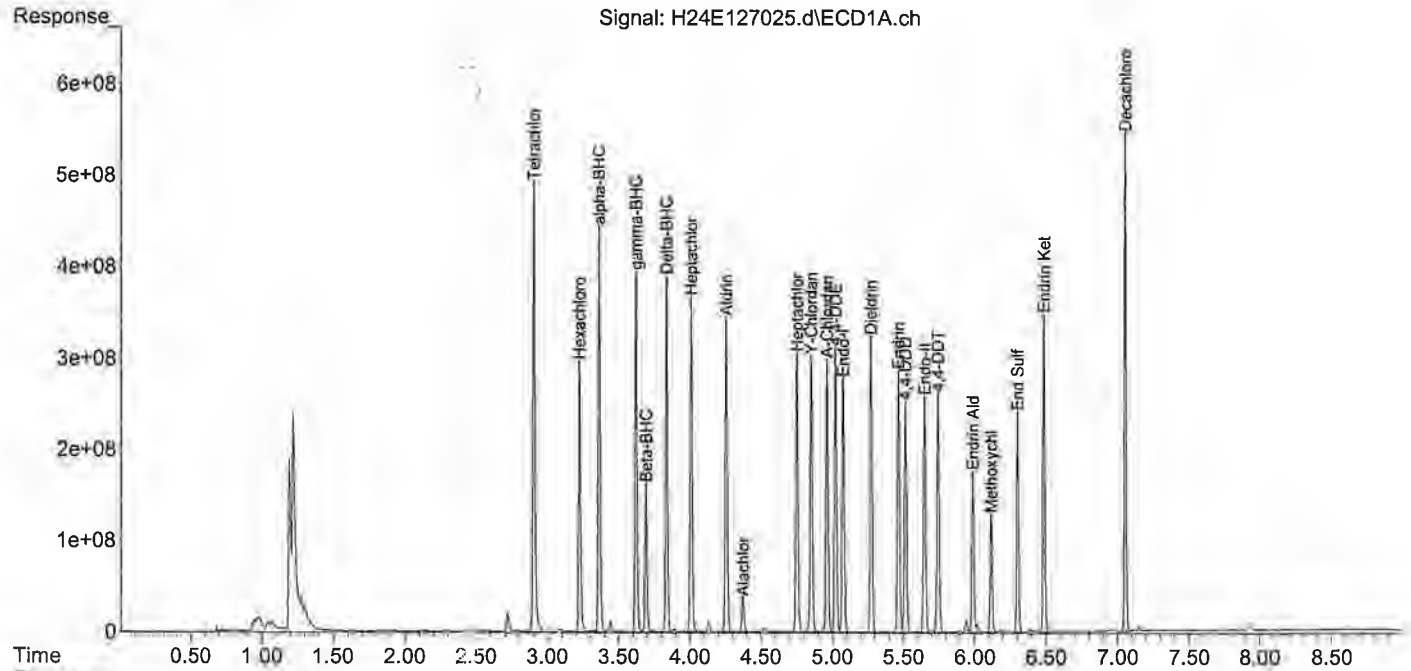
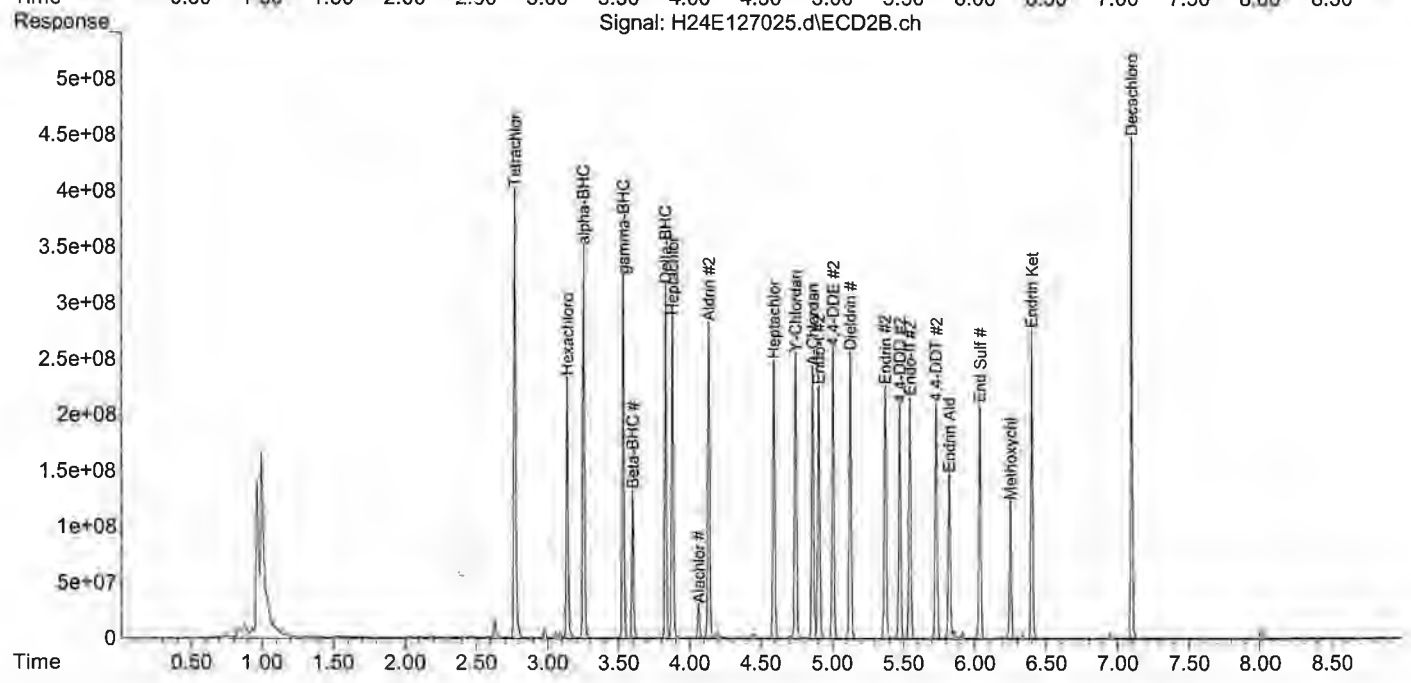
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





1 - FORM I
ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374053-MS1	File ID:	H24E127036.d
Sampled:		Prepared:	05/10/24 15:22	Analyzed:	05/14/24 15:53
Solids:		Preparation:	SW-846 3546	Dilution:	
Initial/Final:	10.4 g / 10 mL				
Batch:	B374053	Sequence:	S104592	Calibration:	2400548
Instrument:	ECD 8				
Column:	1				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
309-00-2	Aldrin	0.10	0.00065	0.0066	
319-84-6	alpha-BHC	0.11	0.0031	0.0066	
319-85-7	beta-BHC	0.093	0.0035	0.0066	
319-86-8	delta-BHC	0.099	0.0035	0.0066	
58-89-9	gamma-BHC (Lindane)	0.10	0.00092	0.0027	
72-54-8	4,4'-DDD	0.12	0.0011	0.0053	
72-55-9	4,4'-DDE	0.11	0.00059	0.0053	
50-29-3	4,4'-DDT	0.080	0.00068	0.0053	
60-57-1	Dieldrin	0.11	0.00063	0.0053	
959-98-8	Endosulfan I	0.11	0.0032	0.0066	
33213-65-9	Endosulfan II	0.10	0.0028	0.011	
1031-07-8	Endosulfan Sulfate	0.081	0.0026	0.011	
72-20-8	Endrin	0.11	0.0034	0.011	
7421-93-4	Endrin Aldehyde	0.069	0.0026	0.011	
53494-70-5	Endrin Ketone	0.099	0.0027	0.011	
76-44-8	Heptachlor	0.11	0.00073	0.0066	
1024-57-3	Heptachlor Epoxide	0.10	0.00077	0.0066	
72-43-5	Methoxychlor	0.069	0.0079	0.066	R-05

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127036.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 3:53 pm
Operator : PJG
Sample : B374053-MS1@FLOR TBA Inst : ECD 8
Misc : mix[s,t]
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:12:30 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
		System Monitoring Compounds						
1)	S	Tetrachlo...	2.906	2.769	4011.0E6	3012.3E6	146.050	150.562
24)	S	Decachlor...	7.055	7.098	3191.4E6	2426.9E6	143.767	152.871
		Target Compounds						
2)	T	Hexachlor...	3.224	3.137	2228.3E6	1681.0E6	73.934	75.725
3)	T	alpha-BHC	3.363	3.251	3363.0E6	2379.9E6	82.125	83.200
4)	T	gamma-BHC	3.623	3.531	2879.5E6	2173.4E6	76.666	81.406
5)	T	Beta-BHC	3.692	3.598	1120.5E6	832.8E6	69.902	73.596
6)	T	Delta-BHC	3.838	3.829	2648.4E6	1937.3E6	75.007	75.578
7)	T	Heptachlor	4.011	3.879	2828.4E6	2080.0E6	78.552	80.894
8)	T	Aldrin	4.258	4.134	2736.3E6	2104.3E6	77.710	82.011
9)	T	Alachlor	4.375	4.063	290.9E6	205.1E6	68.501	69.845
10)	T	Heptachlo...	4.755	4.592	2536.1E6	1901.2E6	80.065	82.456
11)	T	Y-Chlordane	4.855	4.743	2516.2E6	1973.8E6	73.869	82.918
12)	T	A-Chlordane	4.964	4.862	2466.9E6	1899.3E6	77.993	82.938
13)	T	4,4-DDE	5.025	5.004	2526.1E6	1966.5E6	81.392	86.076
14)	T	Endo-I	5.078	4.905	2350.7E6	1810.3E6	80.394	85.452
15)	T	Dieldrin	5.275	5.126	2688.3E6	2040.9E6	81.252	86.412
16)	T	Endrin	5.467	5.372	2391.6E6	1775.0E6	86.009	88.614
17)	T	4,4-DDD	5.516	5.473	2408.0E6	1853.7E6	94.002	99.421
18)	T	Endo-II	5.650	5.545	2121.7E6	1735.9E6	77.051	86.941
19)	T	4,4-DDT	5.746	5.730	1611.9E6	1177.6E6	60.427	60.913
20)	T	Endrin Al...	5.990	5.822	60237786	53147040	~~2.869~~	~~3.460~~
21)	T	Methoxychlor	6.118	6.249	732.0E6	649.1E6	52.289	62.627
22)	T	End Sulf	6.302	6.036	1555.3E6	1459.2E6	60.811	77.552 #
23)	T	Endrin Ke...	6.487	6.400	2261.1E6	1699.1E6	74.475	77.848
25)	L8	Chlordane{1}	0.000	0.000	0	0	N.D. d	N.D. d
26)	L8	Chlordane{2}	0.000	0.000	0	0	N.D. d	N.D. d
27)	L8	Chlordane{3}	0.000	0.000	0	0	N.D. d	N.D. d
28)	L8	Chlordane{4}	0.000	0.000	0	0	N.D. d	N.D. d
29)	L8	Chlordane{5}	0.000	0.000	0	0	N.D. d	N.D. d
		Sum Chlordane			0	0	N.D.	N.D.
Average		Chlordane					0.000	0.000
30)	H	Toxaphene	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

CHECKED BY:

MAY 15 2024

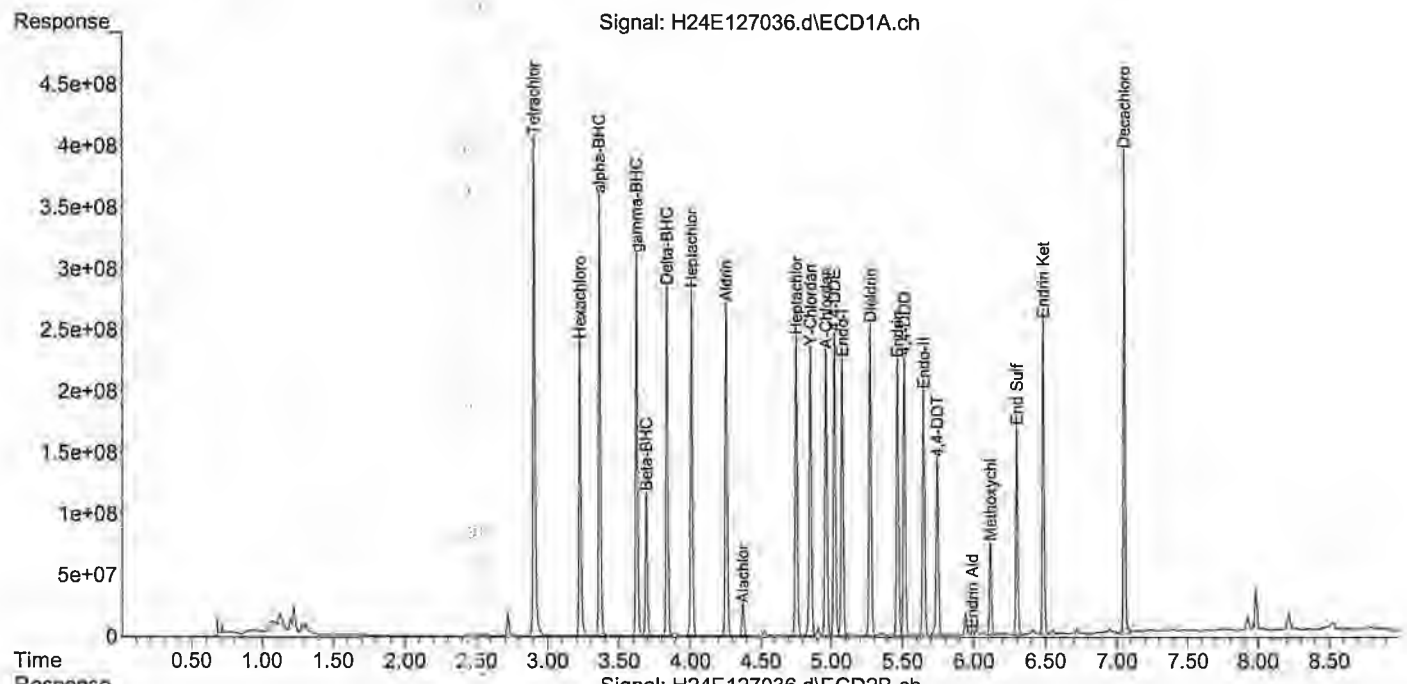
Todd Gionfriddo

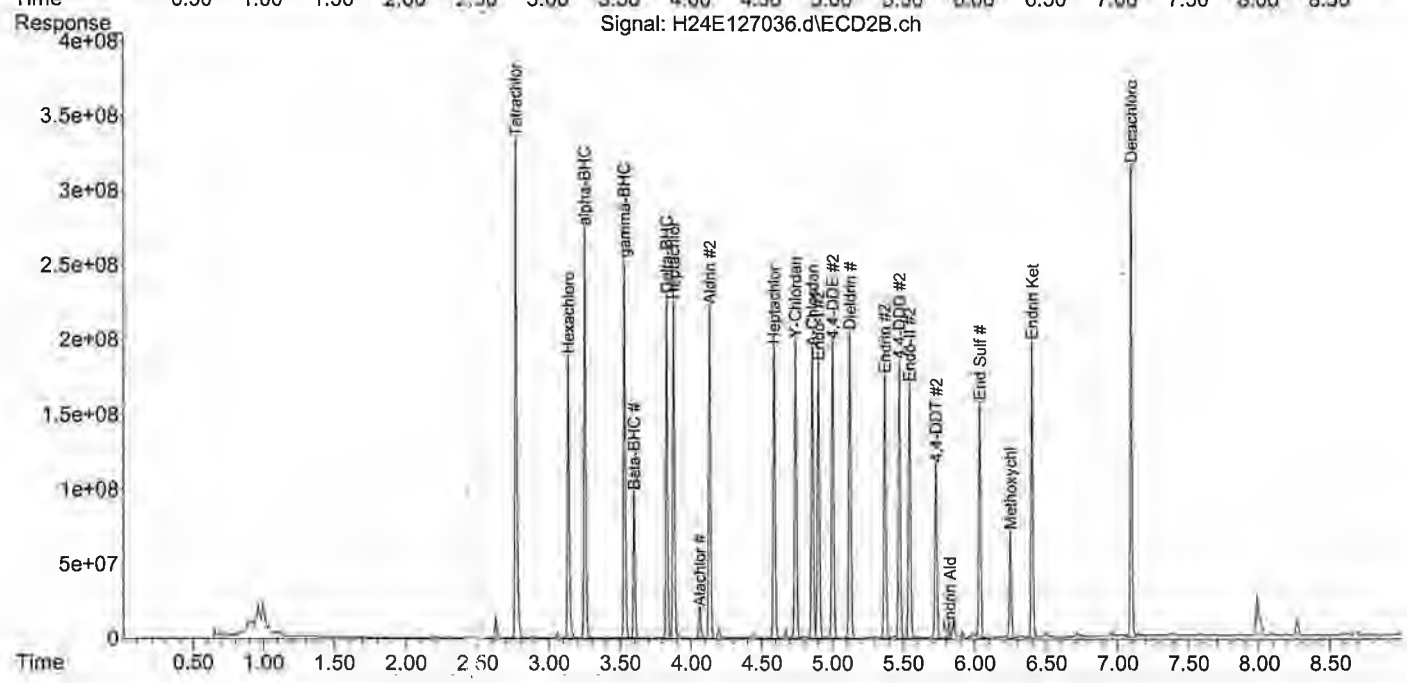
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127036.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 3:53 pm
Operator : PJG
Sample : B374053-MS1@FLOR TBA Inst : ECD 8
Misc : mix[s,t]
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:12:30 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127052.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 7:04 pm
Operator : PJG
Sample : B374053-MS1@FLOR Inst : ECD 8
Misc : mix[s,t]
ALS Vial : 52 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:12:46 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
		System Monitoring Compounds						
1)	S	Tetrachlo...	2.906	2.769	4069.9E6	2986.3E6	148.197	149.263
24)	S	Decachlor...	7.055	7.097	3225.3E6	2462.5E6	145.295	155.110
		Target Compounds						
2)	T	Hexachlor...	3.225	3.137	2319.2E6	1703.2E6	76.951	76.722
3)	T	alpha-BHC	3.364	3.251	3470.6E6	2455.9E6	84.752	85.859
4)	T	gamma-BHC	3.623	3.531	3017.8E6	2272.2E6	80.348	85.109
5)	T	Beta-BHC	3.692	3.598	1244.8E6	910.5E6	77.651	80.460
6)	T	Delta-BHC	3.838	3.829	2919.2E6	2107.5E6	82.677	82.217
7)	T	Heptachlor	4.011	3.878	2926.8E6	2152.4E6	81.284	83.708
8)	T	Aldrin	4.258	4.134	2760.9E6	2139.3E6	78.408	83.377
9)	T	Alachlor	4.374	4.063	344.8E6	243.7E6	81.181	82.983
10)	T	Heptachlo...	4.754	4.591	2602.8E6	1964.9E6	82.171	85.220
11)	T	Y-Chlordane	4.854	4.743	2597.9E6	2039.1E6	76.267	85.660
12)	T	A-Chlordane	4.964	4.862	2529.7E6	1962.7E6	79.978	85.706
13)	T	4,4-DDE	5.024	5.004	2586.0E6	2032.8E6	83.322	88.981
14)	T	Endo-I	5.078	4.905	2430.6E6	1882.7E6	83.126	88.868
15)	T	Dieldrin	5.274	5.126	2797.0E6	2146.6E6	84.536	90.889
16)	T	Endrin	5.466	5.372	2533.3E6	1894.9E6	91.107	94.600
17)	T	4,4-DDD	5.515	5.473	2445.2E6	1886.8E6	95.455	101.195
18)	T	Endo-II	5.650	5.544	2260.8E6	1845.3E6	82.101	92.421
19)	T	4,4-DDT	5.746	5.730	1913.8E6	1424.6E6	71.742	73.689
20)	T	Endrin Al...	5.989	5.822	1093.8E6	881.5E6	52.087	57.378
21)	T	Methoxychlor	6.117	6.249	879.9E6	774.0E6	62.853	74.677
22)	T	End Sulf	6.302	6.037	1752.4E6	1630.7E6	68.520	86.667 #
23)	T	Endrin Ke...	6.486	6.399	2476.7E6	1860.4E6	81.577	85.239
25)	L8	Chlordane{1}	0.000	0.000	0	0	N.D. d	N.D. d
26)	L8	Chlordane{2}	0.000	0.000	0	0	N.D. d	N.D. d
27)	L8	Chlordane{3}	0.000	0.000	0	0	N.D. d	N.D. d
28)	L8	Chlordane{4}	0.000	0.000	0	0	N.D. d	N.D. d
29)	L8	Chlordane{5}	0.000	0.000	0	0	N.D. d	N.D. d
		Sum Chlordane			0	0	N.D.	N.D.
Average		Chlordane					0.000	0.000
30)	H	Toxaphene	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

CHECKED BY:

MAY 16 2024

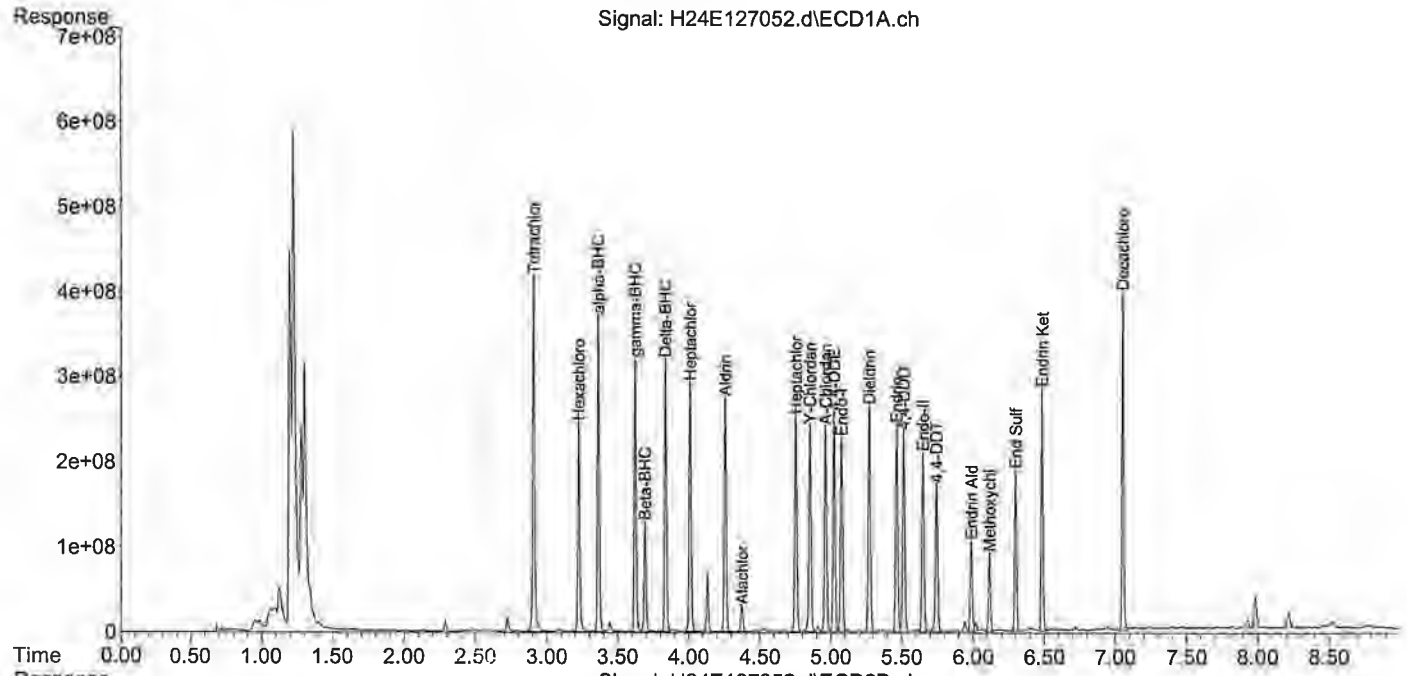
Todd Gionfriddo

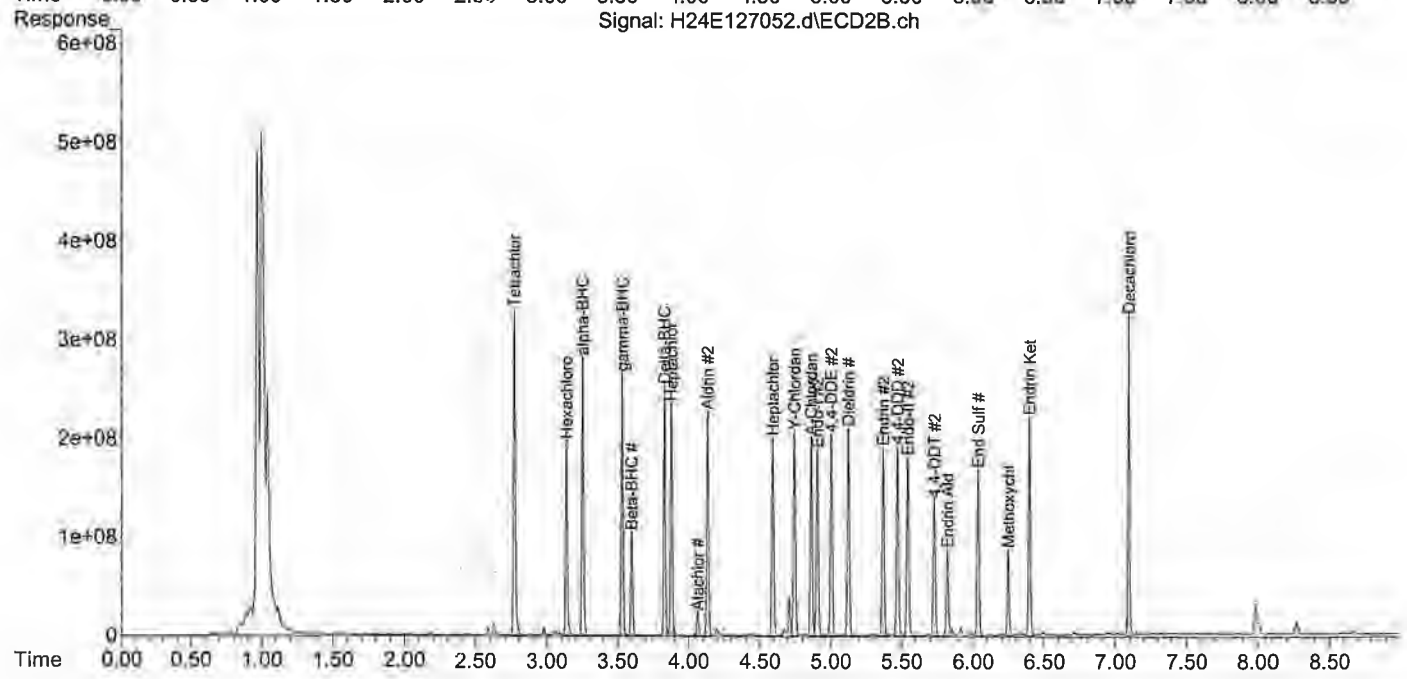
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127052.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 7:04 pm
Operator : PJG
Sample : B374053-MS1@FLOR Inst : ECD 8
Misc : mix[s,t]
ALS Vial : 52 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:12:46 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





1 - FORM I
ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374053-MS1	File ID:	H24E127036.d
Sampled:		Prepared:	05/10/24 15:22	Analyzed:	05/14/24 15:53
Solids:		Preparation:	SW-846 3546	Dilution:	
Initial/Final:	10.4 g / 10 mL				
Batch:	B374053	Sequence:	S104592	Calibration:	2400548
Instrument:	ECD 8				
Column:	2				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
309-00-2	Aldrin [2C]	0.11	0.00073	0.0066	
319-84-6	alpha-BHC [2C]	0.11	0.0027	0.0066	
319-85-7	beta-BHC [2C]	0.098	0.0027	0.0066	
319-86-8	delta-BHC [2C]	0.10	0.0027	0.0066	
58-89-9	gamma-BHC (Lindane) [2C]	0.11	0.00086	0.0027	
72-54-8	4,4'-DDD [2C]	0.13	0.00073	0.0053	V-06
72-55-9	4,4'-DDE [2C]	0.11	0.00086	0.0053	
50-29-3	4,4'-DDT [2C]	0.081	0.00074	0.0053	
60-57-1	Dieldrin [2C]	0.11	0.00075	0.0053	
959-98-8	Endosulfan I [2C]	0.11	0.0026	0.0066	
33213-65-9	Endosulfan II [2C]	0.12	0.0025	0.011	
1031-07-8	Endosulfan Sulfate [2C]	0.10	0.0026	0.011	
72-20-8	Endrin [2C]	0.12	0.0028	0.011	
7421-93-4	Endrin Aldehyde [2C]	0.076	0.0027	0.011	
53494-70-5	Endrin Ketone [2C]	0.10	0.0028	0.011	
76-44-8	Heptachlor [2C]	0.11	0.00084	0.0066	
1024-57-3	Heptachlor Epoxide [2C]	0.11	0.00077	0.0066	
72-43-5	Methoxychlor [2C]	0.083	0.0064	0.066	

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127036.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 3:53 pm
Operator : PJG
Sample : B374053-MS1@FLOR TBA Inst : ECD 8
Misc : mix[s,t]
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:12:30 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
		System Monitoring Compounds						
1)	S	Tetrachlo...	2.906	2.769	4011.0E6	3012.3E6	146.050	150.562
24)	S	Decachlor...	7.055	7.098	3191.4E6	2426.9E6	143.767	152.871
		Target Compounds						
2)	T	Hexachlor...	3.224	3.137	2228.3E6	1681.0E6	73.934	75.725
3)	T	alpha-BHC	3.363	3.251	3363.0E6	2379.9E6	82.125	83.200
4)	T	gamma-BHC	3.623	3.531	2879.5E6	2173.4E6	76.666	81.406
5)	T	Beta-BHC	3.692	3.598	1120.5E6	832.8E6	69.902	73.596
6)	T	Delta-BHC	3.838	3.829	2648.4E6	1937.3E6	75.007	75.578
7)	T	Heptachlor	4.011	3.879	2828.4E6	2080.0E6	78.552	80.894
8)	T	Aldrin	4.258	4.134	2736.3E6	2104.3E6	77.710	82.011
9)	T	Alachlor	4.375	4.063	290.9E6	205.1E6	68.501	69.845
10)	T	Heptachlo...	4.755	4.592	2536.1E6	1901.2E6	80.065	82.456
11)	T	Y-Chlordane	4.855	4.743	2516.2E6	1973.8E6	73.869	82.918
12)	T	A-Chlordane	4.964	4.862	2466.9E6	1899.3E6	77.993	82.938
13)	T	4,4-DDE	5.025	5.004	2526.1E6	1966.5E6	81.392	86.076
14)	T	Endo-I	5.078	4.905	2350.7E6	1810.3E6	80.394	85.452
15)	T	Dieldrin	5.275	5.126	2688.3E6	2040.9E6	81.252	86.412
16)	T	Endrin	5.467	5.372	2391.6E6	1775.0E6	86.009	88.614
17)	T	4,4-DDD	5.516	5.473	2408.0E6	1853.7E6	94.002	99.421
18)	T	Endo-II	5.650	5.545	2121.7E6	1735.9E6	77.051	86.941
19)	T	4,4-DDT	5.746	5.730	1611.9E6	1177.6E6	60.427	60.913
20)	T	Endrin Al...	5.990	5.822	60237786	53147040	~~2.869~~	~~3.460~~
21)	T	Methoxychlor	6.118	6.249	732.0E6	649.1E6	52.289	62.627
22)	T	End Sulf	6.302	6.036	1555.3E6	1459.2E6	60.811	77.552 #
23)	T	Endrin Ke...	6.487	6.400	2261.1E6	1699.1E6	74.475	77.848
25)	L8	Chlordane{1}	0.000	0.000	0	0	N.D. d	N.D. d
26)	L8	Chlordane{2}	0.000	0.000	0	0	N.D. d	N.D. d
27)	L8	Chlordane{3}	0.000	0.000	0	0	N.D. d	N.D. d
28)	L8	Chlordane{4}	0.000	0.000	0	0	N.D. d	N.D. d
29)	L8	Chlordane{5}	0.000	0.000	0	0	N.D. d	N.D. d
		Sum Chlordane			0	0	N.D.	N.D.
Average		Chlordane					0.000	0.000
30)	H	Toxaphene	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

CHECKED BY:

MAY 15 2024

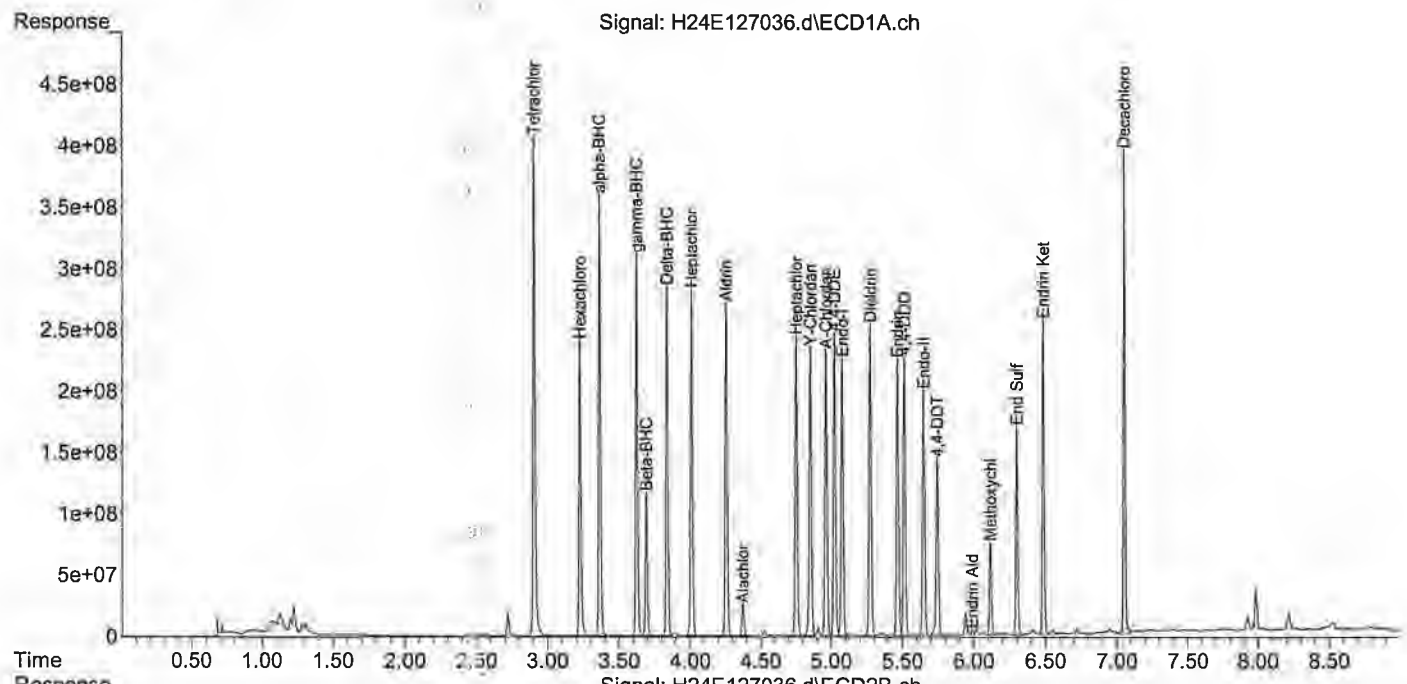
Todd Gionfriddo

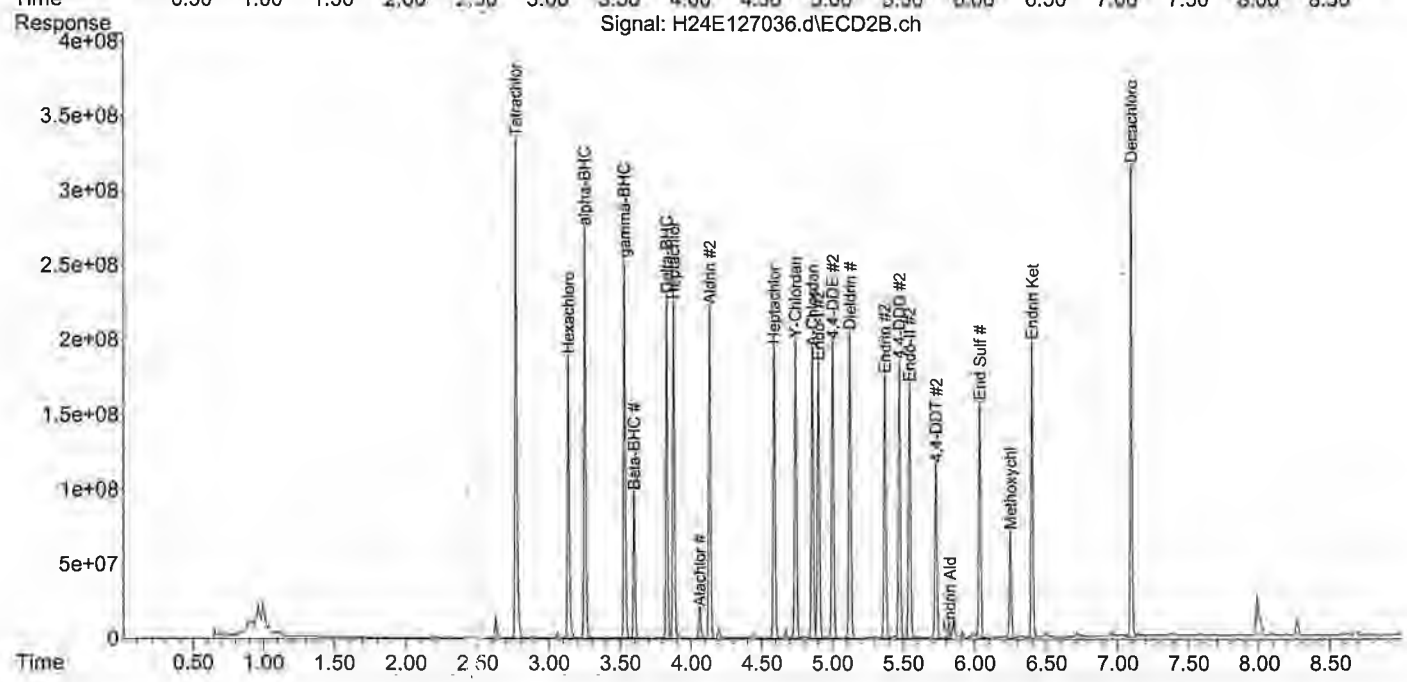
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127036.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 3:53 pm
Operator : PJG
Sample : B374053-MS1@FLOR TBA Inst : ECD 8
Misc : mix[s,t]
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:12:30 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127052.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 7:04 pm
Operator : PJG
Sample : B374053-MS1@FLOR Inst : ECD 8
Misc : mix[s,t]
ALS Vial : 52 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:12:46 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
		System Monitoring Compounds						
1)	S	Tetrachlo...	2.906	2.769	4069.9E6	2986.3E6	148.197	149.263
24)	S	Decachlor...	7.055	7.097	3225.3E6	2462.5E6	145.295	155.110
		Target Compounds						
2)	T	Hexachlor...	3.225	3.137	2319.2E6	1703.2E6	76.951	76.722
3)	T	alpha-BHC	3.364	3.251	3470.6E6	2455.9E6	84.752	85.859
4)	T	gamma-BHC	3.623	3.531	3017.8E6	2272.2E6	80.348	85.109
5)	T	Beta-BHC	3.692	3.598	1244.8E6	910.5E6	77.651	80.460
6)	T	Delta-BHC	3.838	3.829	2919.2E6	2107.5E6	82.677	82.217
7)	T	Heptachlor	4.011	3.878	2926.8E6	2152.4E6	81.284	83.708
8)	T	Aldrin	4.258	4.134	2760.9E6	2139.3E6	78.408	83.377
9)	T	Alachlor	4.374	4.063	344.8E6	243.7E6	81.181	82.983
10)	T	Heptachlo...	4.754	4.591	2602.8E6	1964.9E6	82.171	85.220
11)	T	Y-Chlordane	4.854	4.743	2597.9E6	2039.1E6	76.267	85.660
12)	T	A-Chlordane	4.964	4.862	2529.7E6	1962.7E6	79.978	85.706
13)	T	4,4-DDE	5.024	5.004	2586.0E6	2032.8E6	83.322	88.981
14)	T	Endo-I	5.078	4.905	2430.6E6	1882.7E6	83.126	88.868
15)	T	Dieldrin	5.274	5.126	2797.0E6	2146.6E6	84.536	90.889
16)	T	Endrin	5.466	5.372	2533.3E6	1894.9E6	91.107	94.600
17)	T	4,4-DDD	5.515	5.473	2445.2E6	1886.8E6	95.455	101.195
18)	T	Endo-II	5.650	5.544	2260.8E6	1845.3E6	82.101	92.421
19)	T	4,4-DDT	5.746	5.730	1913.8E6	1424.6E6	71.742	73.689
20)	T	Endrin Al...	5.989	5.822	1093.8E6	881.5E6	52.087	57.378
21)	T	Methoxychlor	6.117	6.249	879.9E6	774.0E6	62.853	74.677
22)	T	End Sulf	6.302	6.037	1752.4E6	1630.7E6	68.520	86.667 #
23)	T	Endrin Ke...	6.486	6.399	2476.7E6	1860.4E6	81.577	85.239
25)	L8	Chlordane{1}	0.000	0.000	0	0	N.D. d	N.D. d
26)	L8	Chlordane{2}	0.000	0.000	0	0	N.D. d	N.D. d
27)	L8	Chlordane{3}	0.000	0.000	0	0	N.D. d	N.D. d
28)	L8	Chlordane{4}	0.000	0.000	0	0	N.D. d	N.D. d
29)	L8	Chlordane{5}	0.000	0.000	0	0	N.D. d	N.D. d
		Sum Chlordane			0	0	N.D.	N.D.
Average		Chlordane					0.000	0.000
30)	H	Toxaphene	0.000	0.000	0	0	N.D. d	N.D. d

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

CHECKED BY:

MAY 16 2024

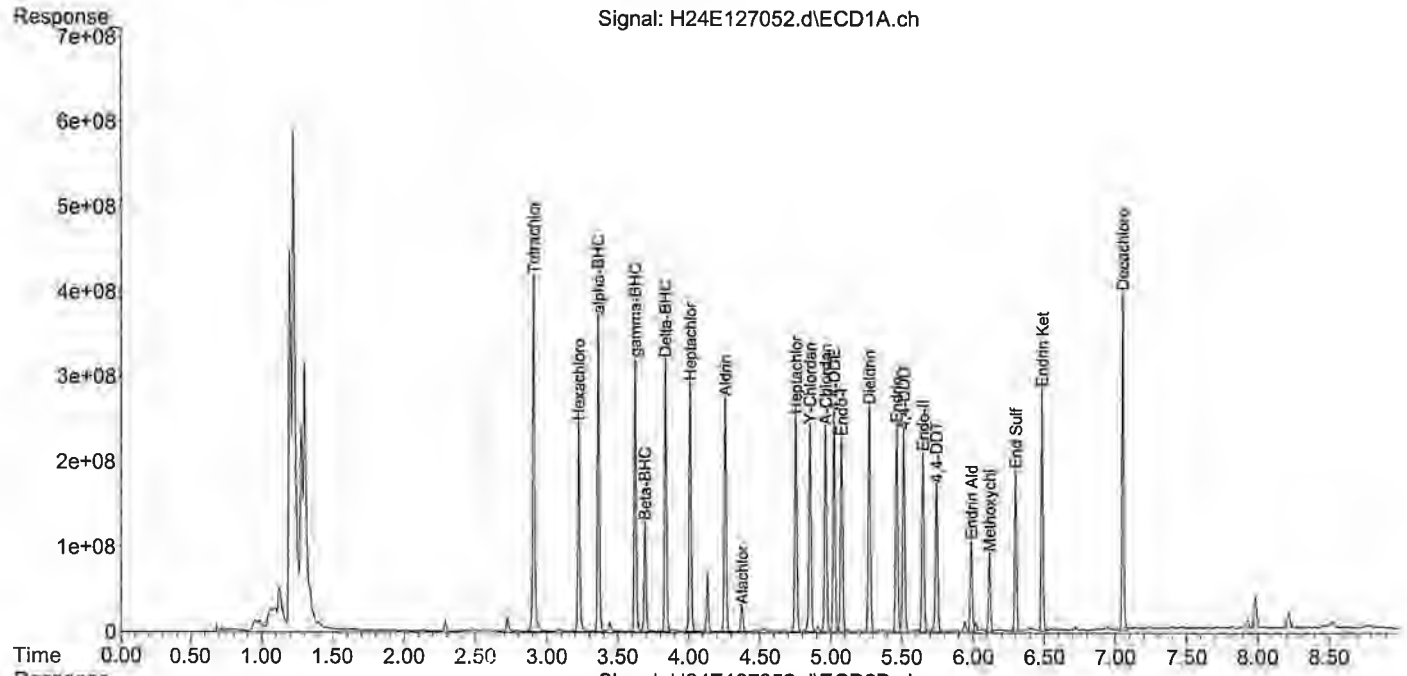
Todd Gionfriddo

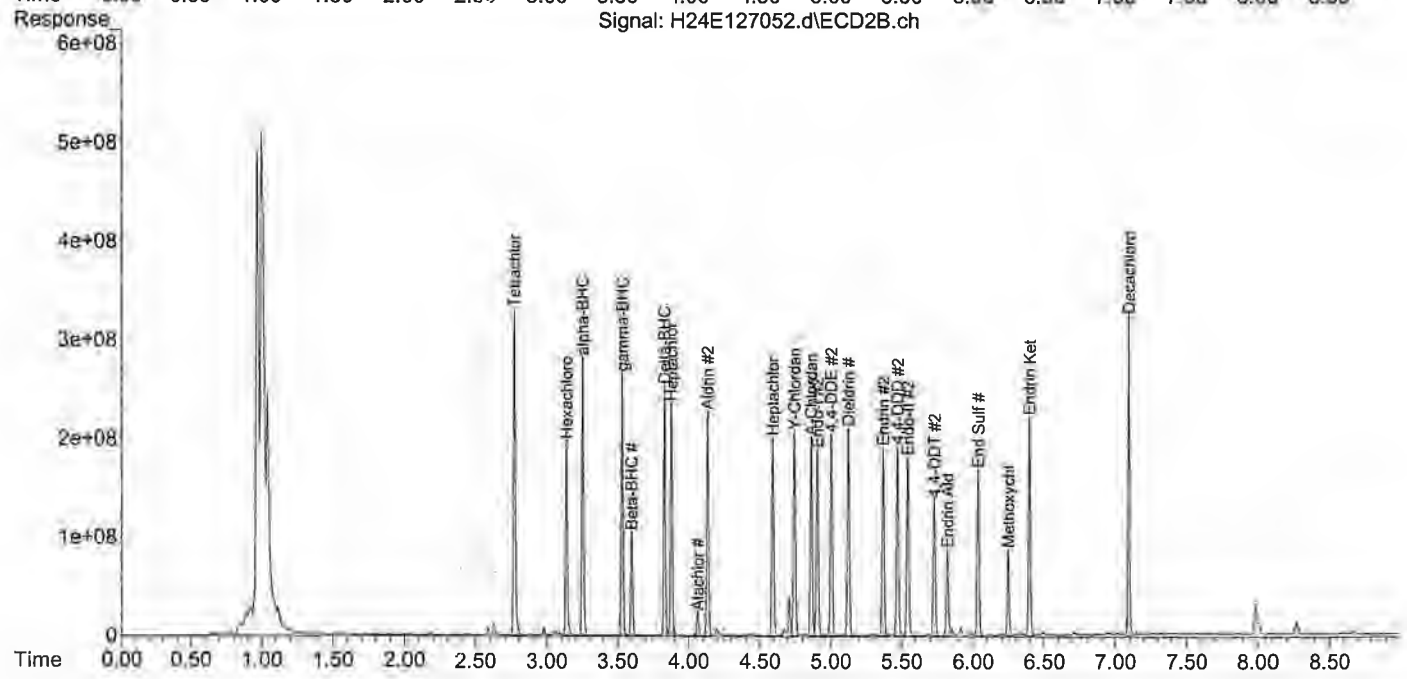
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127052.d
Signal(s) : Signal #1: ECD1A.ch, Signal #2: ECD2B.ch
Acq On : 14 May 2024 7:04 pm
Operator : PJG
Sample : B374053-MS1@FLOR Inst : ECD 8
Misc : mix[s,t]
ALS Vial : 52 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:12:46 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





1 - FORM I
ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374053-MSD1	File ID:	H24E127037.d
Sampled:		Prepared:	05/10/24 15:22	Analyzed:	05/14/24 16:05
Solids:		Preparation:	SW-846 3546	Dilution:	
Initial/Final:	10.42 g / 10 mL				
Batch:	B374053	Sequence:	S104592	Calibration:	2400548
Instrument:	ECD 8				
Column:	1				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
309-00-2	Aldrin	0.12	0.00065	0.0066	
319-84-6	alpha-BHC	0.12	0.0031	0.0066	
319-85-7	beta-BHC	0.10	0.0035	0.0066	
319-86-8	delta-BHC	0.10	0.0035	0.0066	
58-89-9	gamma-BHC (Lindane)	0.11	0.00092	0.0026	
72-54-8	4,4'-DDD	0.14	0.0011	0.0053	
72-55-9	4,4'-DDE	0.12	0.00058	0.0053	
50-29-3	4,4'-DDT	0.096	0.00068	0.0053	
60-57-1	Dieldrin	0.12	0.00063	0.0053	
959-98-8	Endosulfan I	0.12	0.0032	0.0066	
33213-65-9	Endosulfan II	0.11	0.0028	0.011	
1031-07-8	Endosulfan Sulfate	0.082	0.0026	0.011	
72-20-8	Endrin	0.13	0.0034	0.011	
7421-93-4	Endrin Aldehyde	0.083	0.0026	0.011	
53494-70-5	Endrin Ketone	0.10	0.0027	0.011	
76-44-8	Heptachlor	0.12	0.00073	0.0066	
1024-57-3	Heptachlor Epoxide	0.12	0.00077	0.0066	
72-43-5	Methoxychlor	0.081	0.0078	0.066	R-05

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127037.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 4:05 pm
Operator : PJG
Sample : B374053-MSD1@FLOR TBA Inst : ECD 8
Misc : mix[s,t]
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:12:34 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
		System Monitoring Compounds						
1)	S	Tetrachlo...	2.906	2.769	4609.3E6	3434.1E6	167.837	171.647
24)	S	Decachlor...	7.055	7.097	3936.3E6	3023.0E6	177.324	190.416
		Target Compounds						
2)	T	Hexachlor...	3.224	3.137	2557.5E6	1912.8E6	84.856	86.166
3)	T	alpha-BHC	3.363	3.251	3630.7E6	2584.8E6	88.662	90.364
4)	T	gamma-BHC	3.623	3.531	3078.5E6	2333.6E6	81.966	87.408
5)	T	Beta-BHC	3.692	3.598	1217.7E6	906.9E6	75.963	80.140
6)	T	Delta-BHC	3.838	3.830	2741.2E6	1994.9E6	77.635	77.826
7)	T	Heptachlor	4.011	3.879	3239.0E6	2381.8E6	89.954	92.630
8)	T	Aldrin	4.258	4.134	3126.1E6	2414.1E6	88.778	94.084
9)	T	Alachlor	4.374	4.063	302.8E6	212.4E6	71.285	72.336
10)	T	Heptachlo...	4.755	4.592	2778.6E6	2080.6E6	87.722	90.236
11)	T	Y-Chlordane	4.855	4.744	2840.9E6	2221.6E6	83.401	93.328
12)	T	A-Chlordane	4.965	4.862	2783.3E6	2139.7E6	87.996	93.434
13)	T	4,4-DDE	5.025	5.005	2886.2E6	2255.5E6	92.995	98.730
14)	T	Endo-I	5.079	4.905	2561.3E6	1972.1E6	87.596	93.090
15)	T	Dieldrin	5.275	5.127	2932.5E6	2242.1E6	88.630	94.932
16)	T	Endrin	5.467	5.372	2641.2E6	1962.3E6	94.985	97.963
17)	T	4,4-DDD	5.516	5.474	2633.4E6	2062.8E6	102.799	110.632
18)	T	Endo-II	5.651	5.545	2257.2E6	1839.5E6	81.970	92.127
19)	T	4,4-DDT	5.747	5.730	1930.4E6	1414.3E6	72.365	73.157
20)	T	Endrin Al...	5.990	5.822	66853931	61106151	~~3.184~~	~~3.978~~
21)	T	Methoxychlor	6.118	6.250	860.3E6	748.5E6	61.449	72.218
22)	T	End Sulf	6.302	6.037	1577.9E6	1484.1E6	61.696	78.874 #
23)	T	Endrin Ke...	6.487	6.400	2398.6E6	1830.7E6	79.005	83.878
25)	L8	Chlordane{1}	0.000	0.000	0	0	N.D. d	N.D. d
26)	L8	Chlordane{2}	0.000	0.000	0	0	N.D. d	N.D. d
27)	L8	Chlordane{3}	0.000	0.000	0	0	N.D. d	N.D. d
28)	L8	Chlordane{4}	0.000	0.000	0	0	N.D. d	N.D. d
29)	L8	Chlordane{5}	0.000	0.000	0	0	N.D. d	N.D. d
		Sum Chlordane			0	0	N.D.	N.D.
Average		Chlordane					0.000	0.000
30)	H	Toxaphene	0.000	0.000	0	0	N.D. d	N.D. d

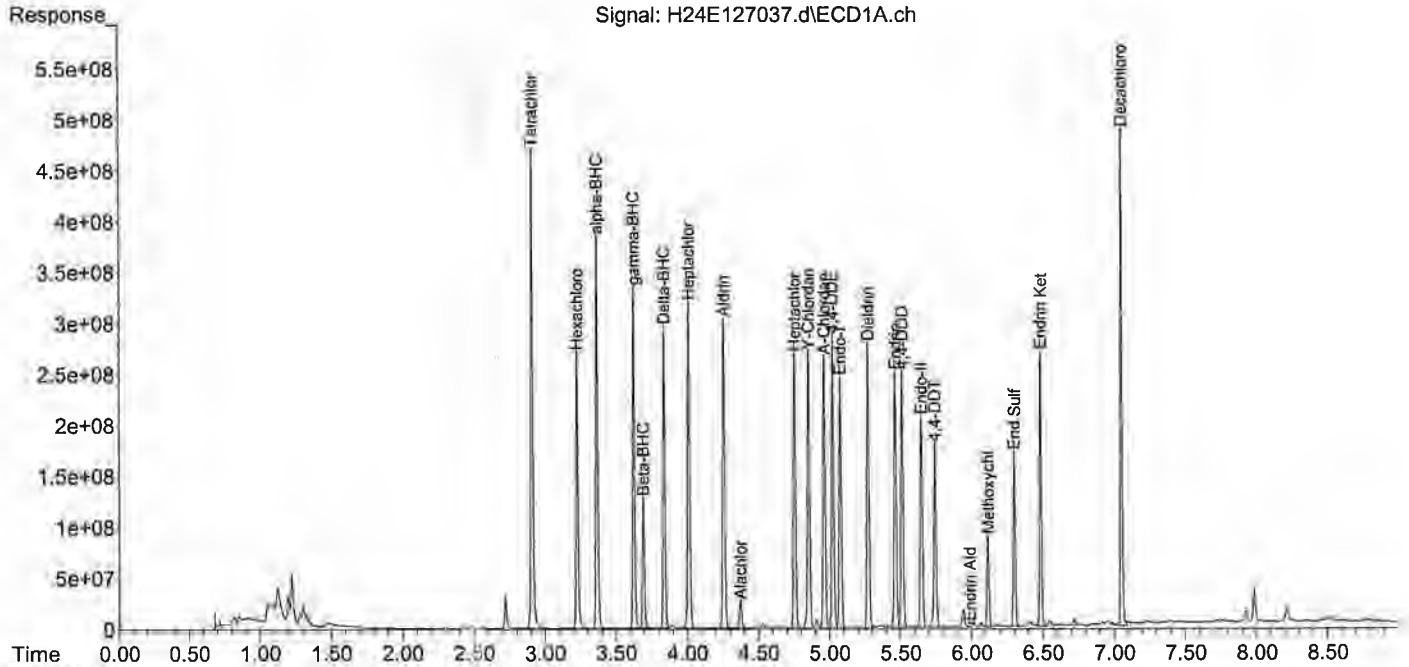
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

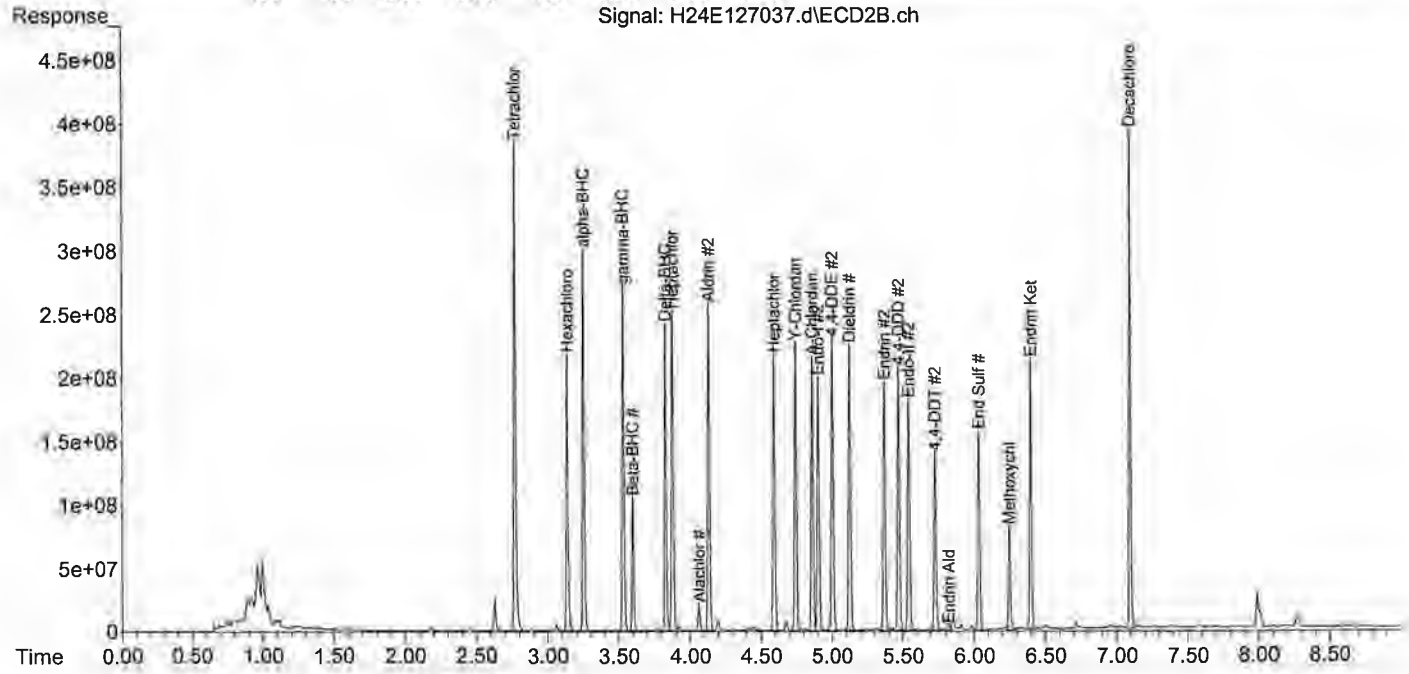
CHECKED BY:
MAY 15 2024
Todd Gionfriddo

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127037.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 4:05 pm
Operator : PJG
Sample : B374053-MSD1@FLOR TBA Inst : ECD 8
Misc : mix[s,t]
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:12:34 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127053.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 7:16 pm
Operator : PJG
Sample : B374053-MSD1@FLOR Inst : ECD 8
Misc : mix[s,t]
ALS Vial : 53 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:12:50 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
		System Monitoring Compounds							
1)	S	Tetrachlo...	2.906	2.769	4704.8E6	3442.1E6	171.315	172.046	
24)	S	Decachlor...	7.055	7.097	3970.0E6	3047.4E6	178.841	191.957	
		Target Compounds							
2)	T	Hexachlor...	3.224	3.137	2661.6E6	1945.2E6	88.312	87.624	
3)	T	alpha-BHC	3.364	3.250	3808.7E6	2703.1E6	93.009	94.501	
4)	T	gamma-BHC	3.623	3.531	3267.5E6	2477.7E6	86.997	92.807	
5)	T	Beta-BHC	3.692	3.598	1364.3E6	997.3E6	85.109	88.127	
6)	T	Delta-BHC	3.838	3.829	3181.1E6	2292.1E6	90.093	89.418	
7)	T	Heptachlor	4.011	3.878	3325.0E6	2438.2E6	92.342	94.826	
8)	T	Aldrin	4.258	4.133	3149.3E6	2446.5E6	89.439	95.348	
9)	T	Alachlor	4.374	4.062	372.8E6	263.3E6	87.780	89.656	
10)	T	Heptachlo...	4.755	4.591	2854.4E6	2146.7E6	90.114	93.107	
11)	T	Y-Chlordane	4.855	4.743	2921.5E6	2270.0E6	85.766	95.363	
12)	T	A-Chlordane	4.964	4.861	2837.4E6	2192.4E6	89.706	95.738	
13)	T	4,4-DDE	5.025	5.004	2910.5E6	2288.7E6	93.779	100.182	
14)	T	Endo-I	5.078	4.904	2666.7E6	2060.6E6	91.203	97.267	
15)	T	Dieldrin	5.275	5.126	3051.9E6	2339.2E6	92.240	99.042	
16)	T	Endrin	5.467	5.372	2761.2E6	2062.3E6	99.302	102.955	
17)	T	4,4-DDD	5.516	5.473	2657.6E6	2053.4E6	103.746	110.127	
18)	T	Endo-II	5.651	5.545	2452.8E6	1991.1E6	89.076	99.720	
19)	T	4,4-DDT	5.746	5.730	2180.2E6	1631.2E6	81.728	84.375	
20)	T	Endrin Al...	5.990	5.822	1324.1E6	1080.5E6	63.055	70.331	
21)	T	Methoxychlor	6.118	6.249	967.8E6	851.5E6	69.129	82.152	
22)	T	End Sulf	6.303	6.037	1882.3E6	1749.6E6	73.597	92.986	#
23)	T	Endrin Ke...	6.487	6.399	2674.8E6	2006.3E6	88.101	91.924	
25)	L8	Chlordane{1}	0.000	0.000	0	0	N.D. d	N.D. d	
26)	L8	Chlordane{2}	0.000	0.000	0	0	N.D. d	N.D. d	
27)	L8	Chlordane{3}	0.000	0.000	0	0	N.D. d	N.D. d	
28)	L8	Chlordane{4}	0.000	0.000	0	0	N.D. d	N.D. d	
29)	L8	Chlordane{5}	0.000	0.000	0	0	N.D. d	N.D. d	
		Sum Chlordane			0	0	N.D.	N.D.	
Average		Chlordane					0.000	0.000	
30)	H	Toxaphene	0.000	0.000	0	0	N.D. d	N.D. d	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

CHECKED BY:

MAY 16 2024

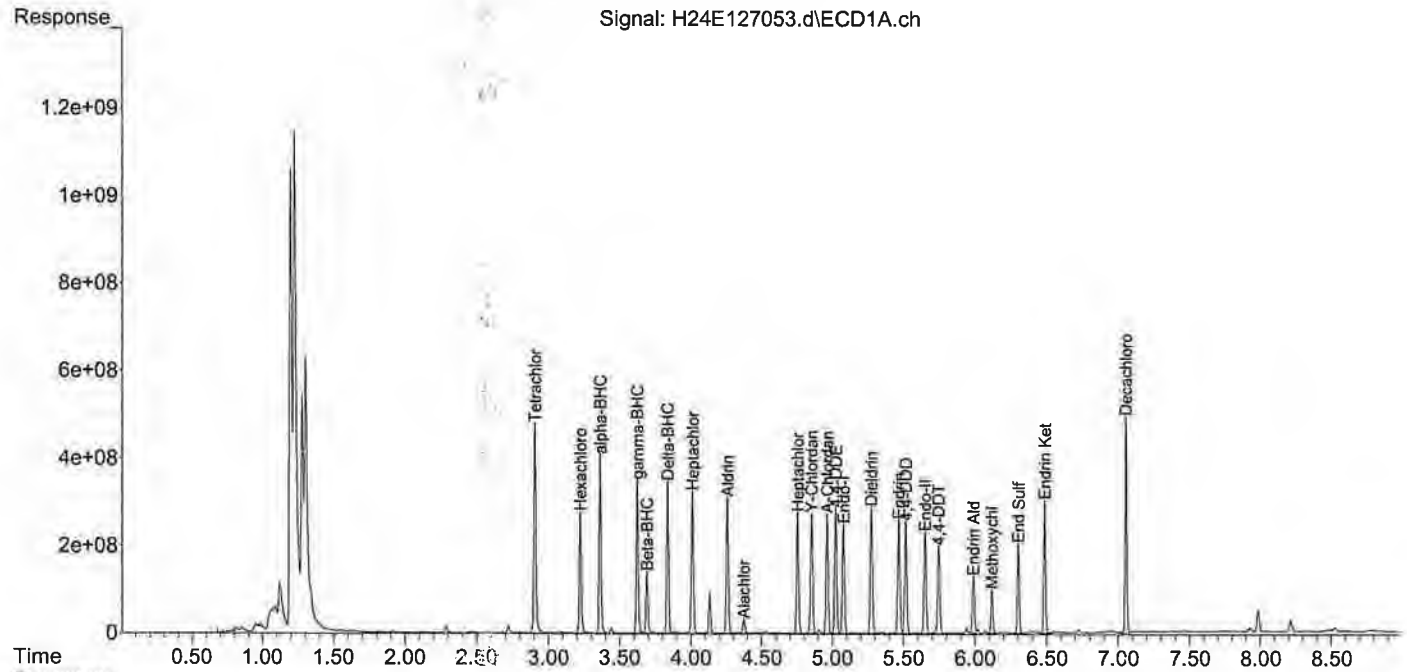
Todd Glonfridde

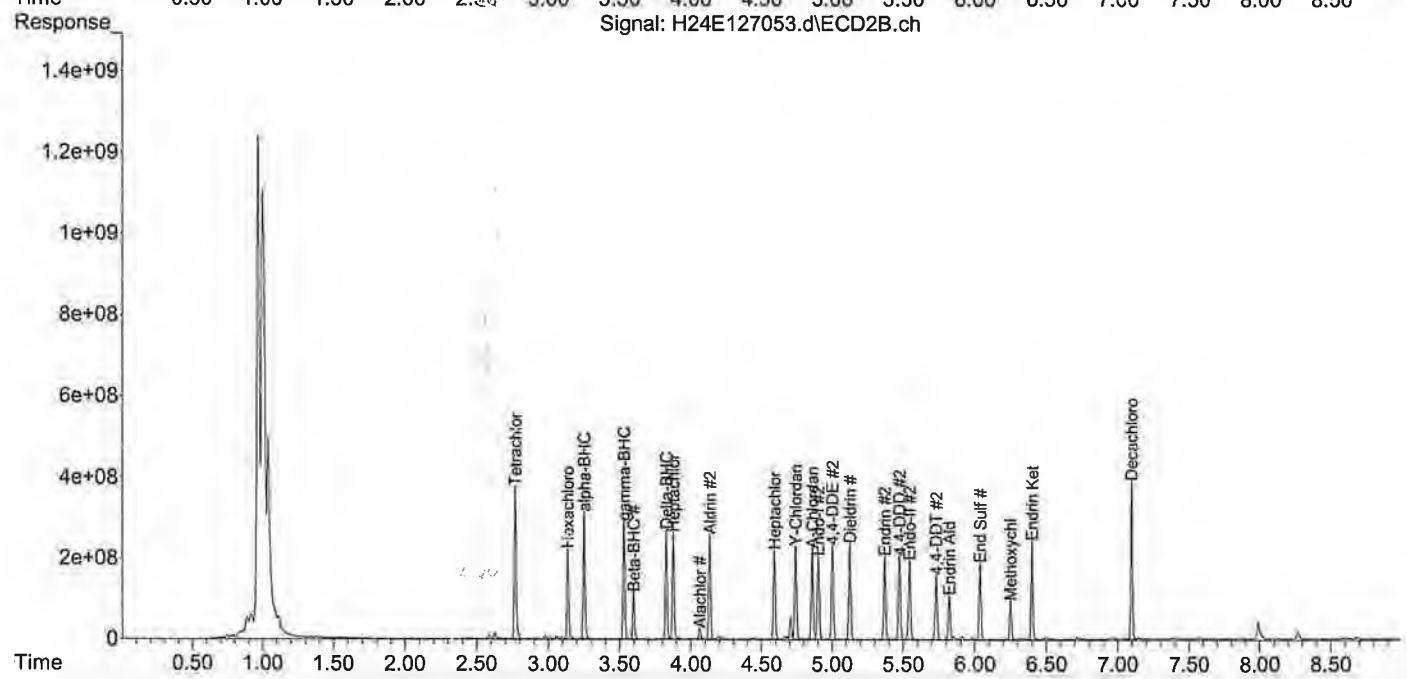
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127053.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 7:16 pm
Operator : PJG
Sample : B374053-MSD1@FLOR Inst : ECD 8
Misc : mix[s,t]
ALS Vial : 53 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:12:50 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





1 - FORM I
ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374053-MSD1	File ID:	H24E127037.d
Sampled:		Prepared:	05/10/24 15:22	Analyzed:	05/14/24 16:05
Solids:		Preparation:	SW-846 3546	Dilution:	
Initial/Final:	10.42 g / 10 mL				
Batch:	B374053	Sequence:	S104592	Calibration:	2400548
Instrument:	ECD 8				
Column:	2				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
309-00-2	Aldrin [2C]	0.12	0.00073	0.0066	
319-84-6	alpha-BHC [2C]	0.12	0.0027	0.0066	
319-85-7	beta-BHC [2C]	0.11	0.0027	0.0066	
319-86-8	delta-BHC [2C]	0.10	0.0027	0.0066	
58-89-9	gamma-BHC (Lindane) [2C]	0.12	0.00086	0.0026	
72-54-8	4,4'-DDD [2C]	0.15	0.00073	0.0053	V-06
72-55-9	4,4'-DDE [2C]	0.13	0.00086	0.0053	
50-29-3	4,4'-DDT [2C]	0.097	0.00074	0.0053	
60-57-1	Dieldrin [2C]	0.13	0.00075	0.0053	
959-98-8	Endosulfan I [2C]	0.12	0.0026	0.0066	
33213-65-9	Endosulfan II [2C]	0.12	0.0025	0.011	
1031-07-8	Endosulfan Sulfate [2C]	0.10	0.0026	0.011	
72-20-8	Endrin [2C]	0.13	0.0028	0.011	
7421-93-4	Endrin Aldehyde [2C]	0.093	0.0027	0.011	
53494-70-5	Endrin Ketone [2C]	0.11	0.0028	0.011	
76-44-8	Heptachlor [2C]	0.12	0.00084	0.0066	
1024-57-3	Heptachlor Epoxide [2C]	0.12	0.00077	0.0066	
72-43-5	Methoxychlor [2C]	0.096	0.0064	0.066	

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127037.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 4:05 pm
Operator : PJG
Sample : B374053-MSD1@FLOR TBA Inst : ECD 8
Misc : mix[s,t]
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:12:34 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
		System Monitoring Compounds						
1)	S	Tetrachlo...	2.906	2.769	4609.3E6	3434.1E6	167.837	171.647
24)	S	Decachlor...	7.055	7.097	3936.3E6	3023.0E6	177.324	190.416
		Target Compounds						
2)	T	Hexachlor...	3.224	3.137	2557.5E6	1912.8E6	84.856	86.166
3)	T	alpha-BHC	3.363	3.251	3630.7E6	2584.8E6	88.662	90.364
4)	T	gamma-BHC	3.623	3.531	3078.5E6	2333.6E6	81.966	87.408
5)	T	Beta-BHC	3.692	3.598	1217.7E6	906.9E6	75.963	80.140
6)	T	Delta-BHC	3.838	3.830	2741.2E6	1994.9E6	77.635	77.826
7)	T	Heptachlor	4.011	3.879	3239.0E6	2381.8E6	89.954	92.630
8)	T	Aldrin	4.258	4.134	3126.1E6	2414.1E6	88.778	94.084
9)	T	Alachlor	4.374	4.063	302.8E6	212.4E6	71.285	72.336
10)	T	Heptachlo...	4.755	4.592	2778.6E6	2080.6E6	87.722	90.236
11)	T	Y-Chlordane	4.855	4.744	2840.9E6	2221.6E6	83.401	93.328
12)	T	A-Chlordane	4.965	4.862	2783.3E6	2139.7E6	87.996	93.434
13)	T	4,4-DDE	5.025	5.005	2886.2E6	2255.5E6	92.995	98.730
14)	T	Endo-I	5.079	4.905	2561.3E6	1972.1E6	87.596	93.090
15)	T	Dieldrin	5.275	5.127	2932.5E6	2242.1E6	88.630	94.932
16)	T	Endrin	5.467	5.372	2641.2E6	1962.3E6	94.985	97.963
17)	T	4,4-DDD	5.516	5.474	2633.4E6	2062.8E6	102.799	110.632
18)	T	Endo-II	5.651	5.545	2257.2E6	1839.5E6	81.970	92.127
19)	T	4,4-DDT	5.747	5.730	1930.4E6	1414.3E6	72.365	73.157
20)	T	Endrin Al...	5.990	5.822	66853931	61106151	~~3.184~~	~~3.978~~
21)	T	Methoxychlor	6.118	6.250	860.3E6	748.5E6	61.449	72.218
22)	T	End Sulf	6.302	6.037	1577.9E6	1484.1E6	61.696	78.874 #
23)	T	Endrin Ke...	6.487	6.400	2398.6E6	1830.7E6	79.005	83.878
25)	L8	Chlordane{1}	0.000	0.000	0	0	N.D. d	N.D. d
26)	L8	Chlordane{2}	0.000	0.000	0	0	N.D. d	N.D. d
27)	L8	Chlordane{3}	0.000	0.000	0	0	N.D. d	N.D. d
28)	L8	Chlordane{4}	0.000	0.000	0	0	N.D. d	N.D. d
29)	L8	Chlordane{5}	0.000	0.000	0	0	N.D. d	N.D. d
		Sum Chlordane			0	0	N.D.	N.D.
		Average Chlordane					0.000	0.000
30)	H	Toxaphene	0.000	0.000	0	0	N.D. d	N.D. d

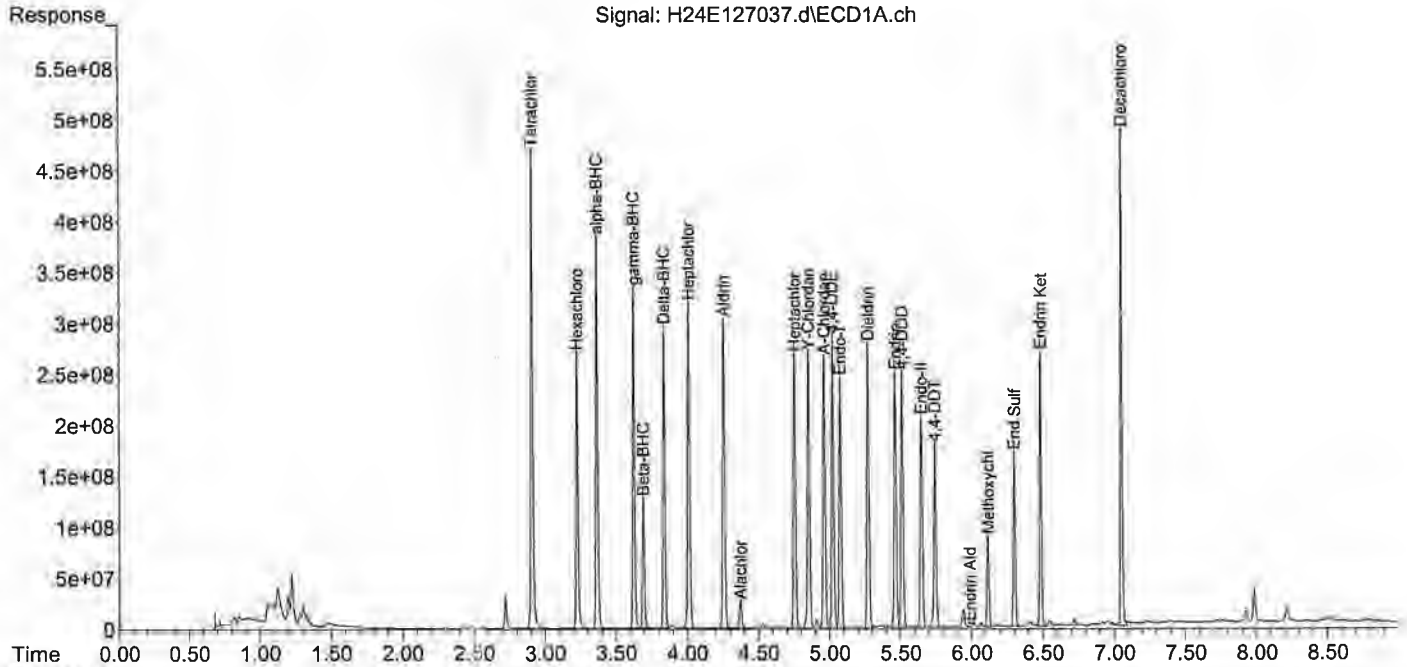
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

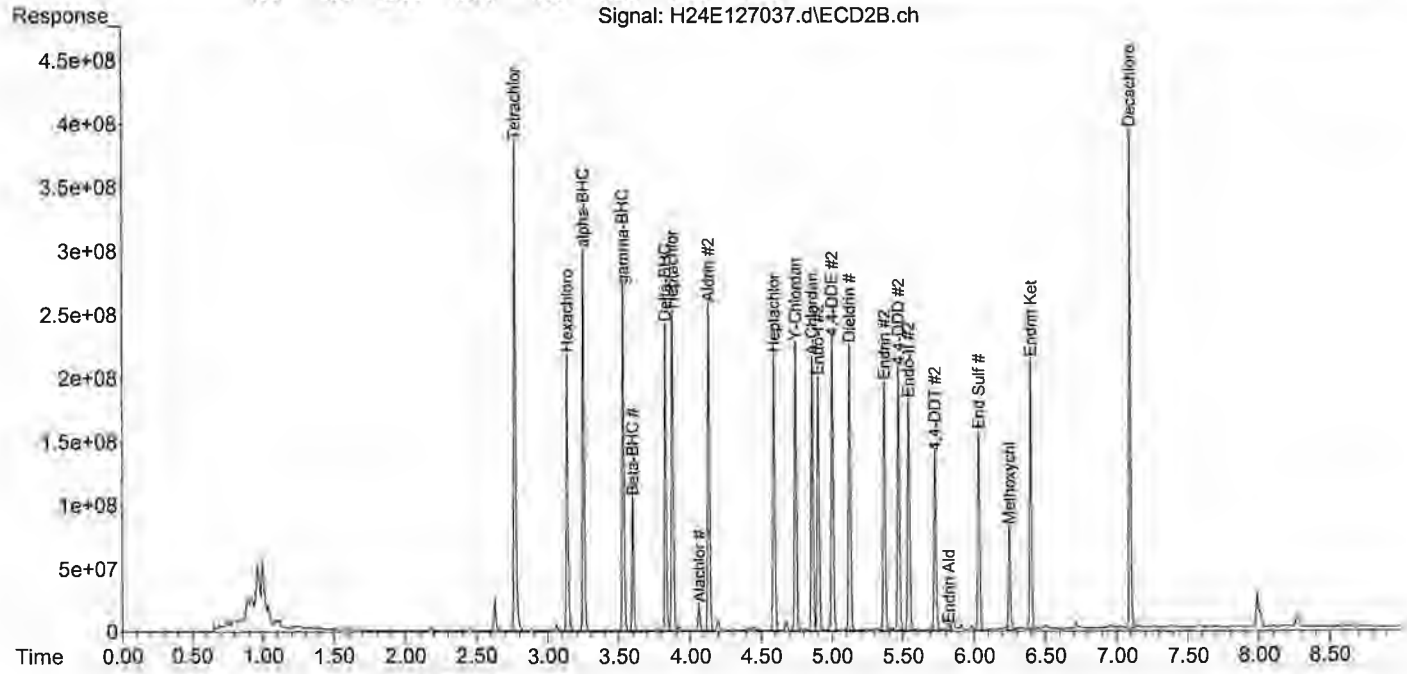
CHECKED BY:
MAY 15 2024
Todd Gionfriddo

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127037.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 4:05 pm
Operator : PJG
Sample : B374053-MSD1@FLOR TBA Inst : ECD 8
Misc : mix[s,t]
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:12:34 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127053.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 7:16 pm
Operator : PJG
Sample : B374053-MSD1@FLOR Inst : ECD 8
Misc : mix[s,t]
ALS Vial : 53 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:12:50 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L	
		System Monitoring Compounds							
1)	S	Tetrachlo...	2.906	2.769	4704.8E6	3442.1E6	171.315	172.046	
24)	S	Decachlor...	7.055	7.097	3970.0E6	3047.4E6	178.841	191.957	
		Target Compounds							
2)	T	Hexachlor...	3.224	3.137	2661.6E6	1945.2E6	88.312	87.624	
3)	T	alpha-BHC	3.364	3.250	3808.7E6	2703.1E6	93.009	94.501	
4)	T	gamma-BHC	3.623	3.531	3267.5E6	2477.7E6	86.997	92.807	
5)	T	Beta-BHC	3.692	3.598	1364.3E6	997.3E6	85.109	88.127	
6)	T	Delta-BHC	3.838	3.829	3181.1E6	2292.1E6	90.093	89.418	
7)	T	Heptachlor	4.011	3.878	3325.0E6	2438.2E6	92.342	94.826	
8)	T	Aldrin	4.258	4.133	3149.3E6	2446.5E6	89.439	95.348	
9)	T	Alachlor	4.374	4.062	372.8E6	263.3E6	87.780	89.656	
10)	T	Heptachlo...	4.755	4.591	2854.4E6	2146.7E6	90.114	93.107	
11)	T	Y-Chlordane	4.855	4.743	2921.5E6	2270.0E6	85.766	95.363	
12)	T	A-Chlordane	4.964	4.861	2837.4E6	2192.4E6	89.706	95.738	
13)	T	4,4-DDE	5.025	5.004	2910.5E6	2288.7E6	93.779	100.182	
14)	T	Endo-I	5.078	4.904	2666.7E6	2060.6E6	91.203	97.267	
15)	T	Dieldrin	5.275	5.126	3051.9E6	2339.2E6	92.240	99.042	
16)	T	Endrin	5.467	5.372	2761.2E6	2062.3E6	99.302	102.955	
17)	T	4,4-DDD	5.516	5.473	2657.6E6	2053.4E6	103.746	110.127	
18)	T	Endo-II	5.651	5.545	2452.8E6	1991.1E6	89.076	99.720	
19)	T	4,4-DDT	5.746	5.730	2180.2E6	1631.2E6	81.728	84.375	
20)	T	Endrin Al...	5.990	5.822	1324.1E6	1080.5E6	63.055	70.331	
21)	T	Methoxychlor	6.118	6.249	967.8E6	851.5E6	69.129	82.152	
22)	T	End Sulf	6.303	6.037	1882.3E6	1749.6E6	73.597	92.986	#
23)	T	Endrin Ke...	6.487	6.399	2674.8E6	2006.3E6	88.101	91.924	
25)	L8	Chlordane{1}	0.000	0.000	0	0	N.D. d	N.D. d	
26)	L8	Chlordane{2}	0.000	0.000	0	0	N.D. d	N.D. d	
27)	L8	Chlordane{3}	0.000	0.000	0	0	N.D. d	N.D. d	
28)	L8	Chlordane{4}	0.000	0.000	0	0	N.D. d	N.D. d	
29)	L8	Chlordane{5}	0.000	0.000	0	0	N.D. d	N.D. d	
		Sum Chlordane			0	0	N.D.	N.D.	
Average		Chlordane					0.000	0.000	
30)	H	Toxaphene	0.000	0.000	0	0	N.D. d	N.D. d	

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

CHECKED BY:

MAY 16 2024

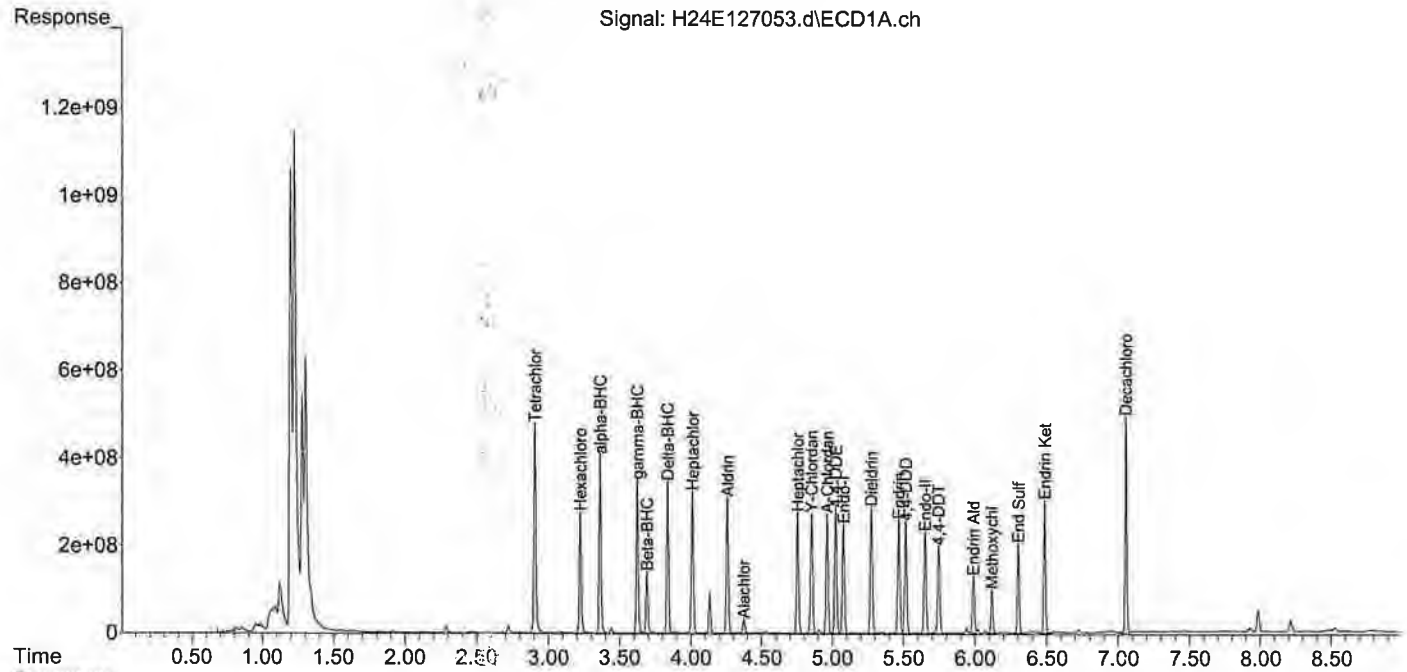
Todd Glonfridde

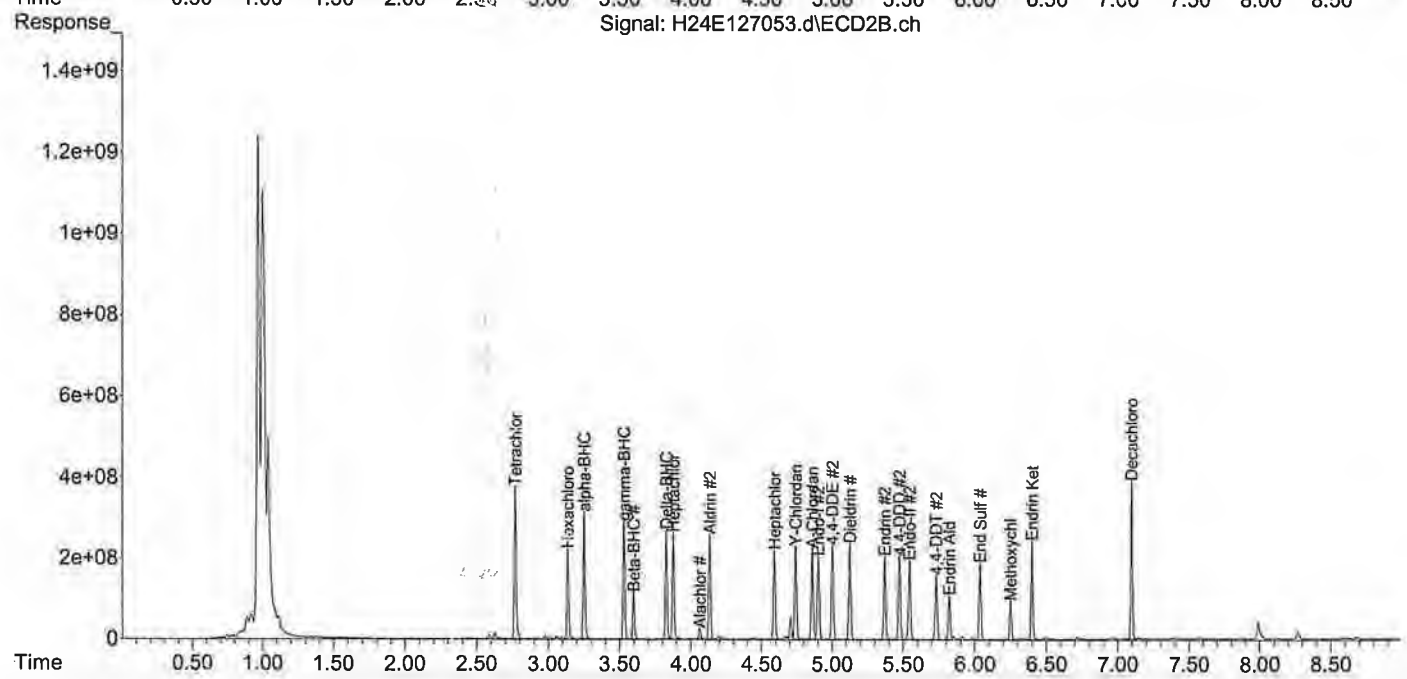
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : H24E127053.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 7:16 pm
Operator : PJG
Sample : B374053-MSD1@FLOR Inst : ECD 8
Misc : mix[s,t]
ALS Vial : 53 Sample Multiplier: 1

Integration File signal 1: pestfront.E
Integration File signal 2: pestback.E
Quant Time: May 15 15:12:50 2024
Quant Method : C:\msdchem\1\methods\8PEST051424C.M
Quant Title : PEST 05/14/24 CHLOR 03/07/24 TOX 03/07/24 2400548
QLast Update : Wed May 15 15:06:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





PREPARATION BENCH SHEET

Printed: 5/10/2024 4:12:32PM

Analysis
8081
8081 DER TCL

3042

Matrix: Soil

B374053

Pace New England

Prepared using: SW-846 3546

Surrogate Solution
24E0077 Pest/PCB Surrogate - 2000 ug/L

Spiking Solution
~~24E0180 Pesticide Spike - 1000ug/L~~ TMR 5/10/24
24E0302 Pest. Mix Spike - 1000 ug/L

Lab Number	Sample ID and Source Sample	Due Date	Expires	Concentrated	Add'l Notes	Initial (g)	Final (mL)	ul Spike	ul Surrogate	Extraction Comments	TAT
B374053-BLK1	Blank			SPKS 5/10/24		10.04g	10C		1000	shared with B374045	
B374053-BS1	LCS			EG 5/13/24		10.05g	10.0	1000	1000		
B374053-BSD1	LCS Dup					10.03g		1000	1000		
B374053-MS1	Matrix Spike [24E1437-06]					10.40g		1000	1000		
B374053-MSD1	Matrix Spike Dup [24E1437-06]					10.42g		1000	1000		
24E1153-01	Site #2 Login	05/22/24	05/22/24			10.72g			1000	shared with B374045	12
24E1153-02	Site #6	05/22/24	05/22/24			10.66g			1000	shared with B374045	12
24E1153-03	Site #7	05/22/24	05/22/24			10.99g			1000	shared with B374045	12
24E1153-04	Site #8	05/22/24	05/22/24			10.58			1000	shared with B374045	12
24E1437-02	CG-2 30-30	05/24/24	05/22/24			10.19g			1000	shared with B374045	10
24E1437-04	B1A	05/24/24	05/22/24			10.71			1000	shared with B374045	10
24E1437-06	SB1A	05/24/24	05/22/24			10.42g			1000	Added for BatchQC in: TMR 5/10/24 B374053, ~~shared with B374045~~	10
24E1437-06	SB1A		05/08/24			—			1000	Added for BatchQC in: TMR 5/10/24 B374053, ~~shared with B374045~~	10
24E1437-12	SB4A	05/24/24	05/22/24			10.44g			1000	shared with B374045	10
24E1437-17	SB7	05/24/24	05/22/24			10.51g			1000	shared with B374045	10
24E1437-19	DUP	05/24/24	05/22/24			10.15g			1000	shared with B374045	10

SPK WIT
TMR 5/10/24
Spikedby/Witnessed By Date

TMR 5/10/24
Extracted By Date

C:\ELMNT\Print\bch_DEF_EXT_TAT.rpt

PREPARATION BENCH SHEET

Printed: 5/10/2024 4:12:32PM

Analysis
8081
8081 DER TCL

3043

Matrix: Soil

B374053

Pace New England

Prepared using: SW-846 3546

Surrogate Solution
24E0077 Pest/PCB Surrogate - 2000 ug/L

Spiking Solution
24E0180 Pesticide Spike - 1000ug/L

Start Date/Time _____

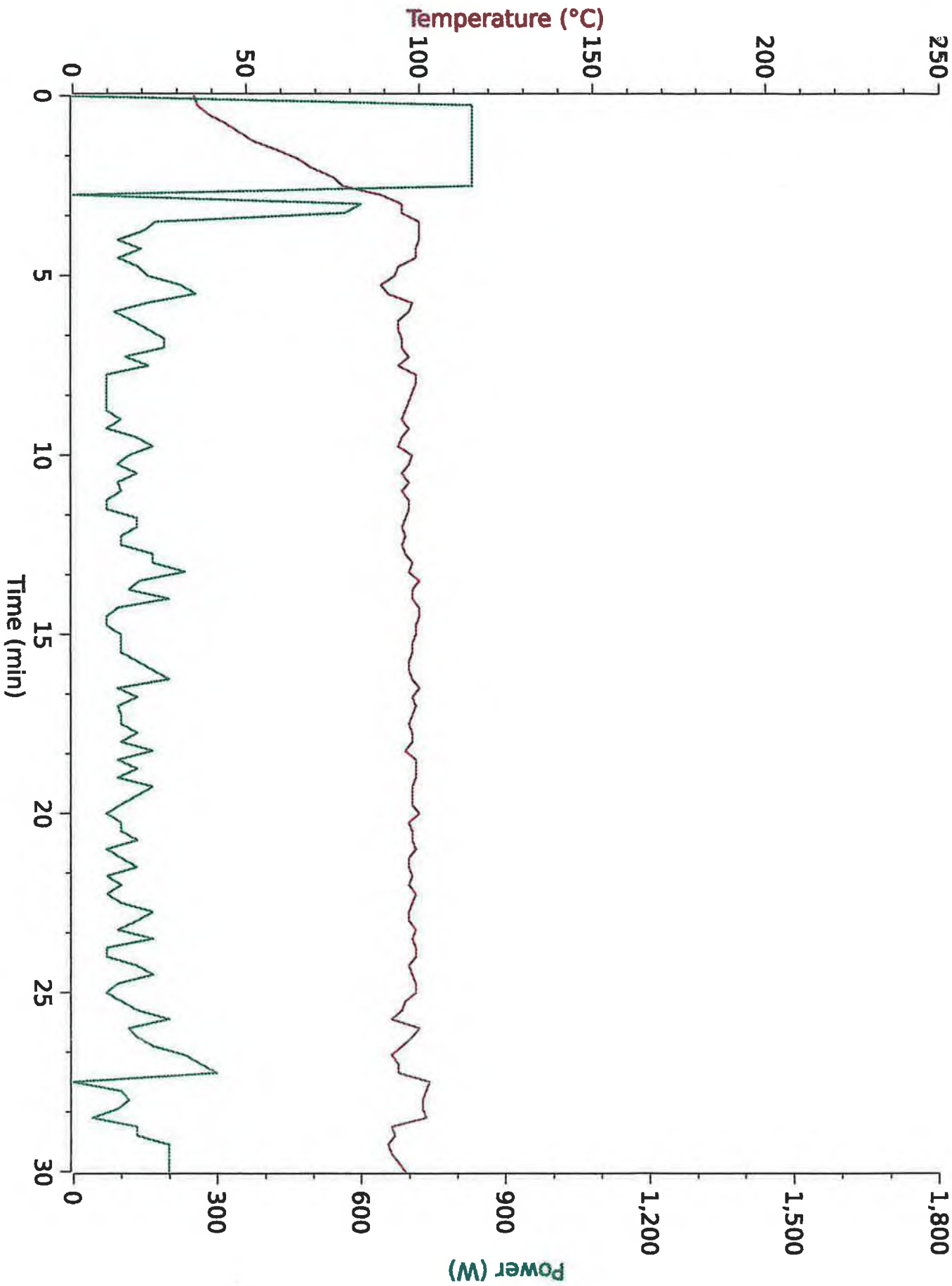
StopDate/Time _____

Standard ID#	Description
24E0170	Acetone
24E0174	Hexanes 95%
24E0241	Sodium Sulfate (Baked)
24E0245	Filter Paper (Fisher) 15.0cm

B-EXT-029

Spikedby/Witnessed By _____ Date _____

Extracted By _____ Date _____


Temperature (°C)
0
50
100
150
200
250
Time (min)
0
5
10
15
20
25
30
Power (W)
0
300
600
900
1,200
1,500
1,800

Injection Log

C:\msdchem\1\data\051424\

Date	Filename	Lab ID	Sample Info
14 May 2024 8:54 am	H24E127001.d	ISO	
14 May 2024 9:06 am	H24E127002.d	ISO	
14 May 2024 9:18 am	H24E127003.d	ISO	
14 May 2024 9:30 am	H24E127004.d	PEM1 05/03/24 24E0094	
14 May 2024 9:42 am	H24E127005.d	PEST 100 02/14/24 24B0459	mix[s,t]
14 May 2024 9:54 am	H24E127006.d	CHLOR 100 11/20/23 23K0582	mix[18]
14 May 2024 10:06 am	H24E127007.d	TOX 250 01/17/24 24A0551	mix[h]
14 May 2024 10:18 am	H24E127008.d	ISO	
14 May 2024 10:30 am	H24E127009.d	PEST 0.1	mix[s,t]
14 May 2024 10:42 am	H24E127010.d	PEST 1	mix[s,t]
14 May 2024 10:54 am	H24E127011.d	PEST 5	mix[s,t]
14 May 2024 11:06 am	H24E127012.d	PEST 10	mix[s,t]
14 May 2024 11:18 am	H24E127013.d	PEST 20	mix[s,t]
14 May 2024 11:29 am	H24E127014.d	PEST 50	mix[s,t]
14 May 2024 11:41 am	H24E127015.d	PEST 100	mix[s,t]
14 May 2024 11:53 am	H24E127016.d	PEST 200	mix[s,t]
14 May 2024 12:05 pm	H24E127017.d	ISO	
14 May 2024 12:17 pm	H24E127018.d	PEST ICV	mix[s,t]
14 May 2024 12:29 pm	H24E127019.d	ISO	
14 May 2024 12:41 pm	H24E127020.d	B374053-BLK1@FLOR TBA	
14 May 2024 12:53 pm	H24E127021.d	B374053-BS1@FLOR TBA	mix[s,t]
14 May 2024 1:05 pm	H24E127022.d	B374053-BSD1@FLOR TBA	mix[s,t]
14 May 2024 1:17 pm	H24E127023.d	B374053-BLK1@FLOR	
14 May 2024 1:29 pm	H24E127024.d	B374053-BS1@FLOR	mix[s,t]
14 May 2024 1:41 pm	H24E127025.d	B374053-BSD1@FLOR	mix[s,t]
14 May 2024 1:53 pm	H24E127026.d	24E1153-01@10X FLOR TBA	
14 May 2024 2:05 pm	H24E127027.d	24E1153-02@10X FLOR TBA	
14 May 2024 2:17 pm	H24E127028.d	24E1153-03@10X FLOR TBA	
14 May 2024 2:29 pm	H24E127029.d	24E1153-04@20X FLOR TBA	
14 May 2024 2:41 pm	H24E127030.d	24E1437-02@10X FLOR TBA	
14 May 2024 2:53 pm	H24E127031.d	24E1437-04@20X FLOR TBA	
14 May 2024 3:05 pm	H24E127032.d	24E1437-06@FLOR TBA	
14 May 2024 3:17 pm	H24E127033.d	24E1437-12@10X FLOR TBA	
14 May 2024 3:29 pm	H24E127034.d	24E1437-17@20X FLOR TBA	
14 May 2024 3:41 pm	H24E127035.d	24E1437-19@10X FLOR TBA	
14 May 2024 3:53 pm	H24E127036.d	B374053-MS1@FLOR TBA	mix[s,t]
14 May 2024 4:05 pm	H24E127037.d	B374053-MSD1@FLOR TBA	mix[s,t]
14 May 2024 4:16 pm	H24E127038.d	ISO	
14 May 2024 4:28 pm	H24E127039.d	TOX 500	mix[h]
14 May 2024 4:40 pm	H24E127040.d	CHLOR 200	mix[18]
14 May 2024 4:52 pm	H24E127041.d	PEST 100	mix[s,t]
14 May 2024 5:04 pm	H24E127042.d	24E1153-01RE1@10X FLOR	
14 May 2024 5:16 pm	H24E127043.d	24E1153-02RE1@10X FLOR	
14 May 2024 5:28 pm	H24E127044.d	24E1153-03RE1@10X FLOR	
14 May 2024 5:40 pm	H24E127045.d	24E1153-04RE1@20X FLOR	
14 May 2024 5:52 pm	H24E127046.d	24E1437-02RE1@10X FLOR	
14 May 2024 6:04 pm	H24E127047.d	24E1437-04RE1@20X FLOR	
14 May 2024 6:16 pm	H24E127048.d	24E1437-06RE1@FLOR	
14 May 2024 6:28 pm	H24E127049.d	24E1437-12RE1@10X FLOR	
14 May 2024 6:40 pm	H24E127050.d	24E1437-17RE1@20X FLOR	
14 May 2024 6:52 pm	H24E127051.d	24E1437-19RE1@10X FLOR	
14 May 2024 7:04 pm	H24E127052.d	B374053-MS1@FLOR	mix[s,t]
14 May 2024 7:16 pm	H24E127053.d	B374053-MSD1@FLOR	mix[s,t]
14 May 2024 7:28 pm	H24E127054.d	24E0159-01	
14 May 2024 7:40 pm	H24E127055.d	ISO	
14 May 2024 7:52 pm	H24E127056.d	TOX 250	mix[h]
14 May 2024 8:04 pm	H24E127057.d	CHLOR 100	mix[18]
14 May 2024 8:16 pm	H24E127058.d	PEST 100	mix[s,t]
14 May 2024 8:28 pm	H24E127059.d	B374111-SRM1	PASS - TG
14 May 2024 8:40 pm	H24E127060.d	B374106-SRM1	PASS - TG
14 May 2024 8:52 pm	H24E127061.d	B374106-SRM2	PASS - TG
14 May 2024 9:04 pm	H24E127062.d	B374320-SRM1	PASS - TG

2400548

DOD [IC] ↑ RCP OK

DOD [2C] ↑ RCP CAM

DOD [Both] ↑ RCP CAM

Methacrylates [Both] ↓ RCP CAM

8 - FORM VIII

Laboratory: DRAFT REPORT SDG: 24E1437

Client: NYS Division of Environmental Remediation Project: Tivoli Memorial Park- CO 149634

Calibration: 2400548 Instrument: ECD 8

				Column 1		Column 2	
EPA SAMPLE NO.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	TCX 1 RT #	DCB 1 RT #	TCX 2 RT #	DCB 2 RT #
S104592-CCV7							
S104592-CCV4							
S104592-CCV1							
S104592-PEM1	H24E127004.d	05/14/2024	0930				
S104592-CCV2	H24E127007.d	05/14/2024	1006				
B374053-BLK1	H24E127023.d	05/14/2024	1317	2.91	7.06	2.77	7.10
B374053-BS1	H24E127024.d	05/14/2024	1329	2.91	7.06	2.77	7.10
B374053-BSD1	H24E127025.d	05/14/2024	1341	2.91	7.06	2.77	7.10
24E1437-02	H24E127030.d	05/14/2024	1441	2.91	7.05	2.77	7.10
24E1437-04	H24E127031.d	05/14/2024	1453	2.91	7.05	2.77	7.10
24E1437-06	H24E127032.d	05/14/2024	1505	2.91	7.06	2.77	7.10
24E1437-12	H24E127033.d	05/14/2024	1517	2.91	7.05	2.77	7.10
24E1437-17	H24E127034.d	05/14/2024	1529	2.91	7.05	2.77	7.10
24E1437-19	H24E127035.d	05/14/2024	1541	2.91	7.06	2.77	7.10
B374053-MS1	H24E127052.d	05/14/2024	1904	2.91	7.06	2.77	7.10
B374053-MSD1	H24E127053.d	05/14/2024	1916	2.91	7.06	2.77	7.10
S104592-CCV3	H24E127039.d	05/14/2024	1628				
S104592-CCV5	H24E127041.d	05/14/2024	1652	2.91	7.06	2.77	7.10
24E1437-02RE1	H24E127046.d	05/14/2024	1752	2.91	7.06	2.77	7.10
24E1437-04RE1	H24E127047.d	05/14/2024	1804	2.91	7.05	2.77	7.10
24E1437-06RE1	H24E127048.d	05/14/2024	1816	2.91	7.05	2.77	7.10
24E1437-12RE1	H24E127049.d	05/14/2024	1828	2.91	7.05	2.77	7.10
24E1437-17RE1	H24E127050.d	05/14/2024	1840	2.91	7.05	2.77	7.10
24E1437-19RE1	H24E127051.d	05/14/2024	1852	2.91	7.05	2.77	7.10
S104592-CCV6	H24E127056.d	05/14/2024	1952				
S104592-CCV8	H24E127058.d	05/14/2024	2016	2.91	7.06	2.77	7.10

RTs compared to opening CCV due to instrument maintenance

AROCLOR

SAMPLE DATA

1 - FORM I
ANALYSIS DATA SHEET

CG-2

Laboratory:	Pace New England			SDG:	24E1437
Client:	NYS Division of Environmental Rer			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-02	File ID:	I24E135034.d
Sampled:	05/08/24 10:40	Prepared:	05/10/24 15:04	Analyzed:	05/14/24 19:13
Solids:	62.99	Preparation:	SW-846 3546	Dilution:	4
Batch:	B374045	Sequence:	S104539	Calibration:	2400478
Instrument:	ECD 9				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.029	0.12	
11104-28-2	Aroclor-1221		0.055	0.12	
11141-16-5	Aroclor-1232		0.029	0.12	
53469-21-9	Aroclor-1242		0.033	0.12	
12672-29-6	Aroclor-1248		0.028	0.12	
11097-69-1	Aroclor-1254	0.089	0.035	0.12	J
11096-82-5	Aroclor-1260		0.025	0.12	
37324-23-5	Aroclor-1262		0.031	0.12	
11100-14-4	Aroclor-1268		0.031	0.12	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : I24E135034.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 7:13 pm
Operator : PJG
Sample : 24E1437-02@4X TBA Inst : ECD 9
Misc :
ALS Vial : 34 Sample Multiplier: 1

3050

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 15 08:22:55 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	3.071	2.996	2572.3E6	2357.0E6	39.166	40.740
2) S	Decachlor...	7.208	7.312	1922.1E6	1825.9E6	34.628	36.660
	Target Compounds						
3) L1	1016{1}	0.000	0.000	0	0	N.D. d	N.D. d
4) L1	1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1	1016{3}	0.000	0.000	0	0	N.D. d	N.D. d
6) L1	1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1	1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9) L7	1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7	1260{3}	0.000	0.000	0	0	N.D. d	N.D. d
11) L7	1260{4}	0.000	0.000	0	0	N.D. d	N.D. d
12) L7	1260{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13) L6	1254{1}	4.786	4.873	45970643	22628944	15.348	8.582 #
14) L6	1254{2}	0.000	5.027	0	52361773	N.D. d	17.248 #
15) L6	1254{3}	5.323	0.000	71460289	0	13.321	N.D. d#
16) L6	1254{4}	5.552	5.400	56010601	40693392	13.488	9.401 #
17) L6	1254{5}	5.930	6.013	97588764	72788421	17.635	15.201
Sum	1254			271.0E6	188.5E6	59.793	50.431
Average	1254					14.948	12.608
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\051424\
Data File : I24E135034.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 7:13 pm
Operator : PJG
Sample : 24E1437-02@4X TBA Inst : ECD 9
Misc :
ALS Vial : 34 Sample Multiplier: 1

3051

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 15 08:22:55 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40)	L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D. d	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

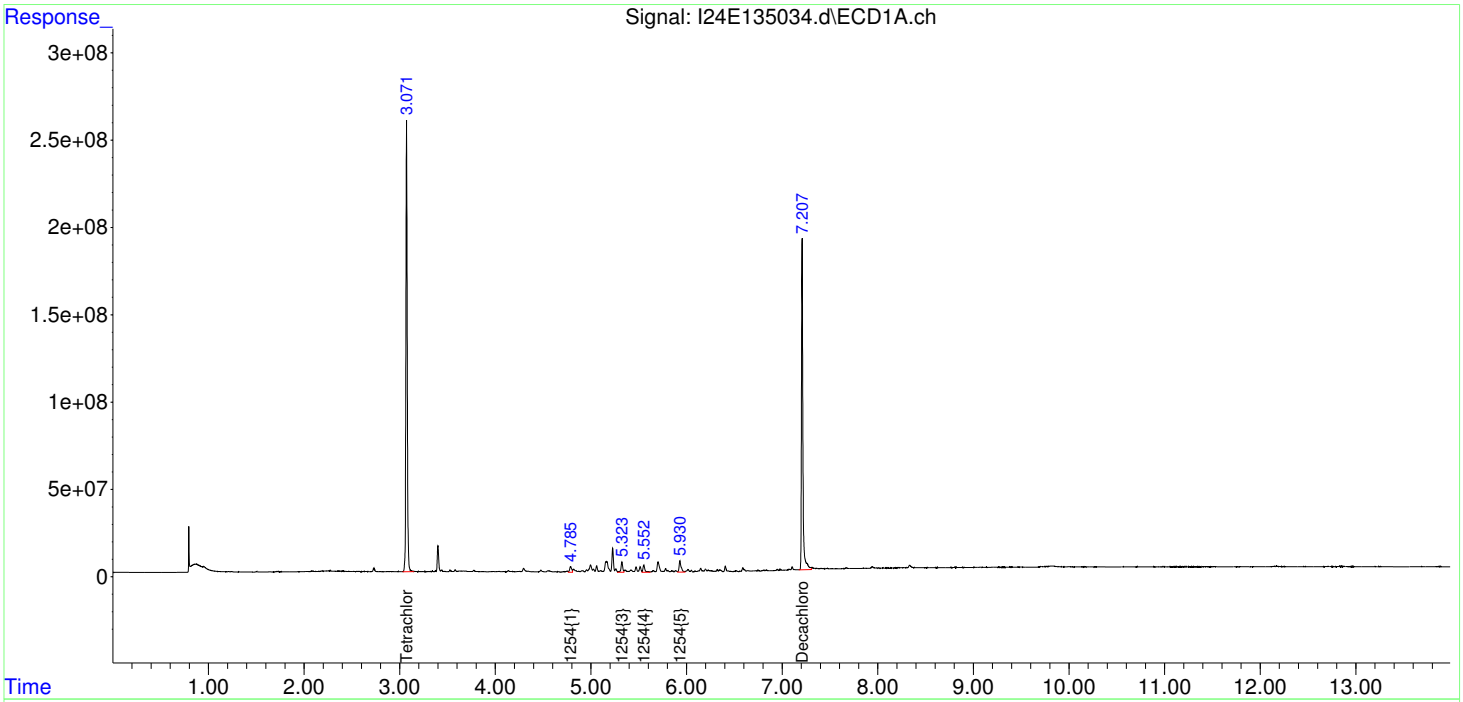
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

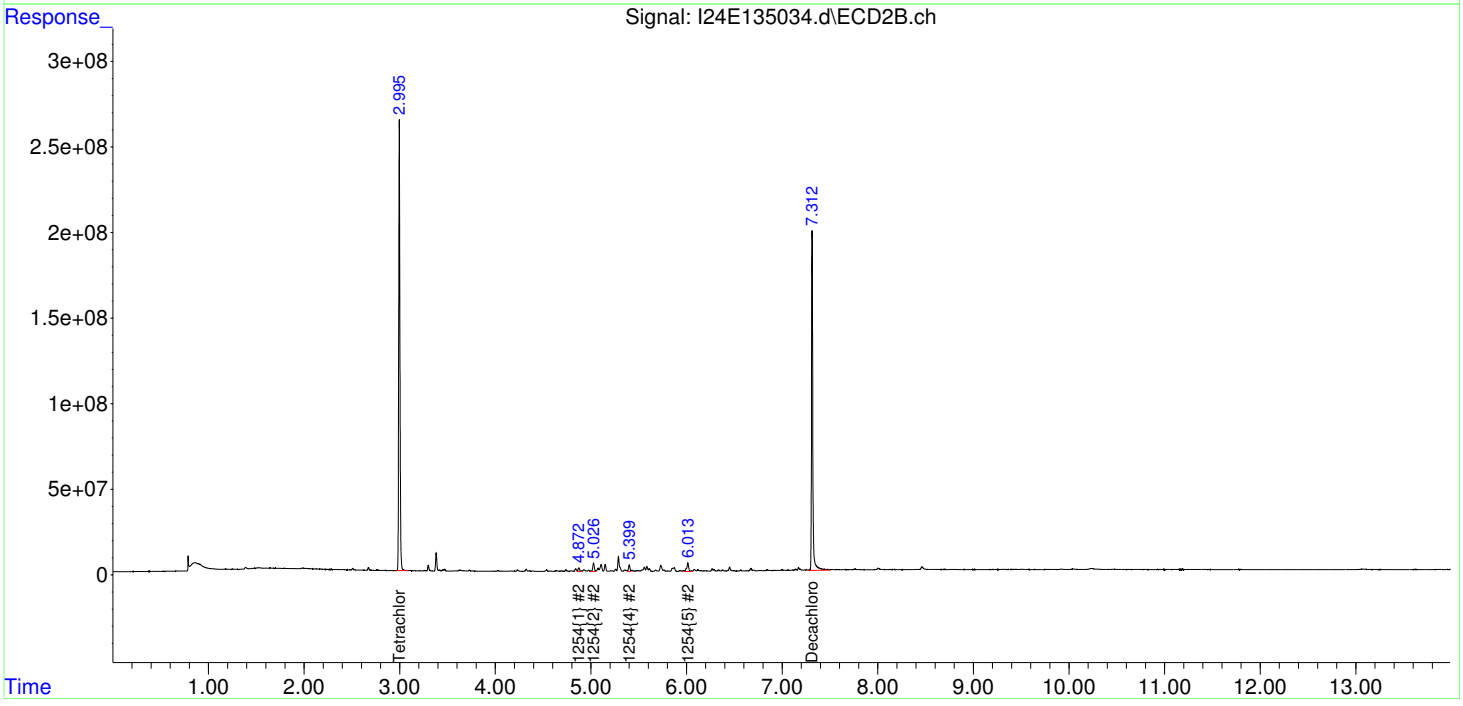
Data Path : C:\msdchem\1\data\051424\
Data File : I24E135034.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 7:13 pm
Operator : PJG
Sample : 24E1437-02@4X TBA Inst : ECD 9
Misc :
ALS Vial : 34 Sample Multiplier: 1

3052

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 15 08:22:55 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

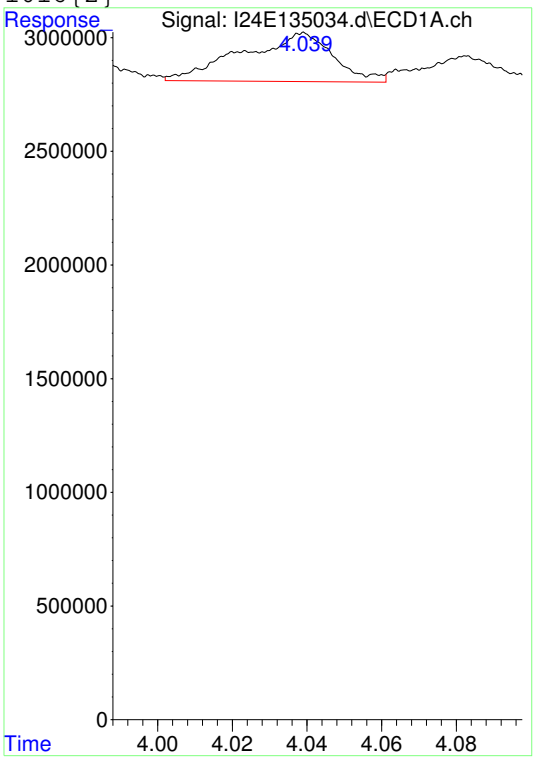




Data Path : C:\msdchem\1\data\051424\
Data File : I24E135034.d
Acq On : 14 May 2024 7:13 pm
Operator : PJG
Sample : 24E1437-02@4X TBA
Misc :

Quant Time : Wed May 15 08:22:55 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1016{2}



Original Int. Results

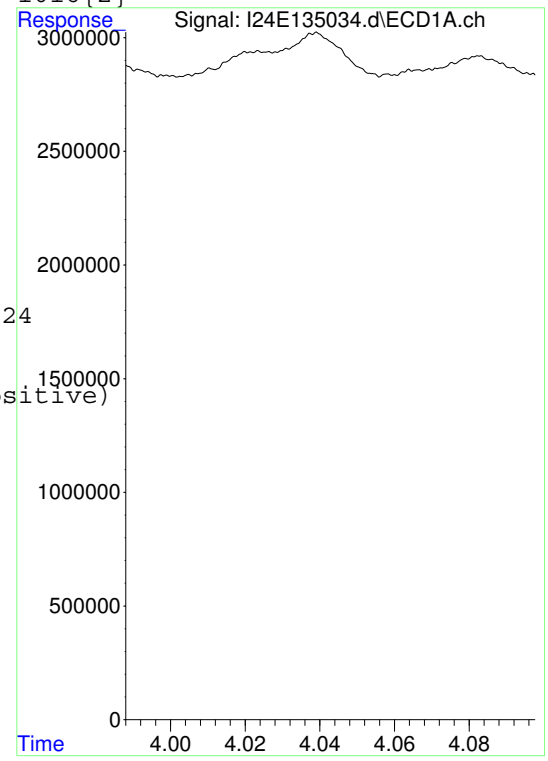
RT : 4.04
Area : 3.58738e+006
Amount: 0.879293

Manual Int. Results

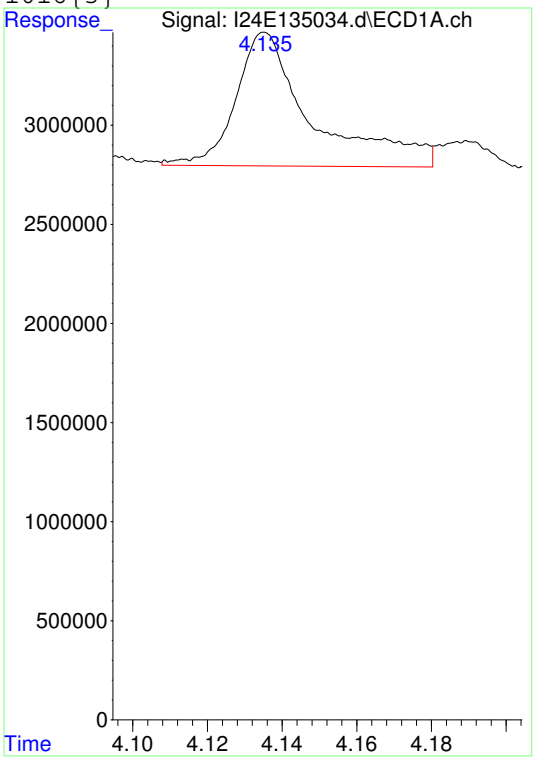
Wed May 15 08:22:36 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1016{2}



Original Integration
1016{3}



Original Int. Results

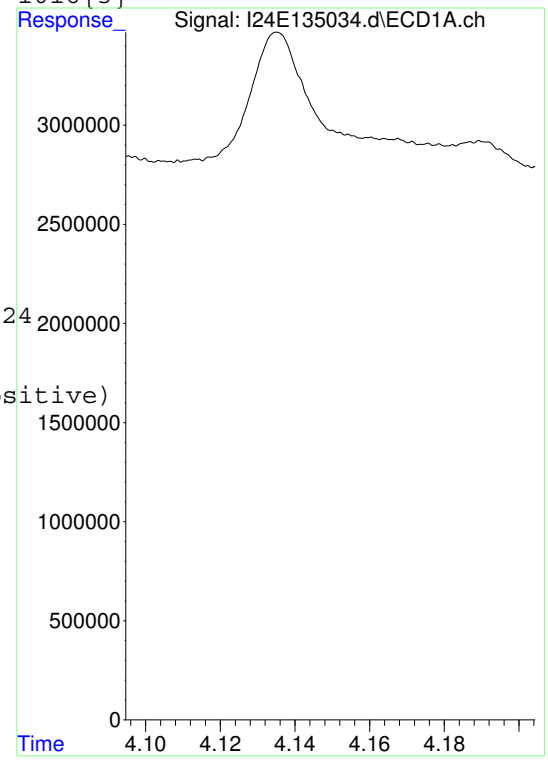
RT : 4.14
Area : 9.5236e+006
Amount: 3.22597

Manual Int. Results

Wed May 15 08:22:36 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

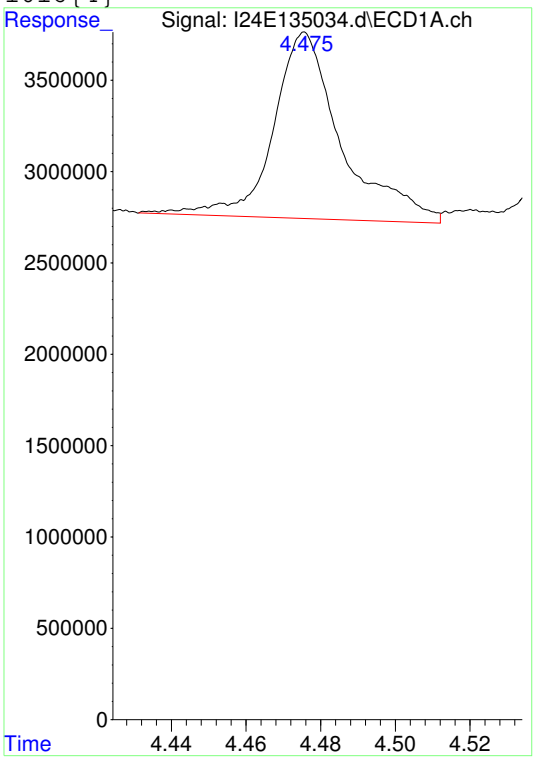
Manual Integration
1016{3}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135034.d
Acq On : 14 May 2024 7:13 pm
Operator : PJG
Sample : 24E1437-02@4X TBA
Misc :

Quant Time : Wed May 15 08:22:55 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1016{4}



Original Int. Results

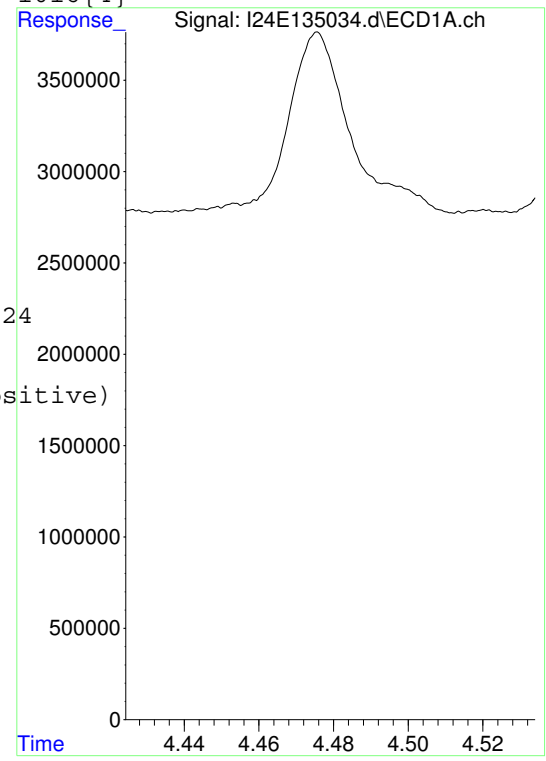
RT : 4.48
Area : 1.2937e+007
Amount: 6.00589

Manual Int. Results

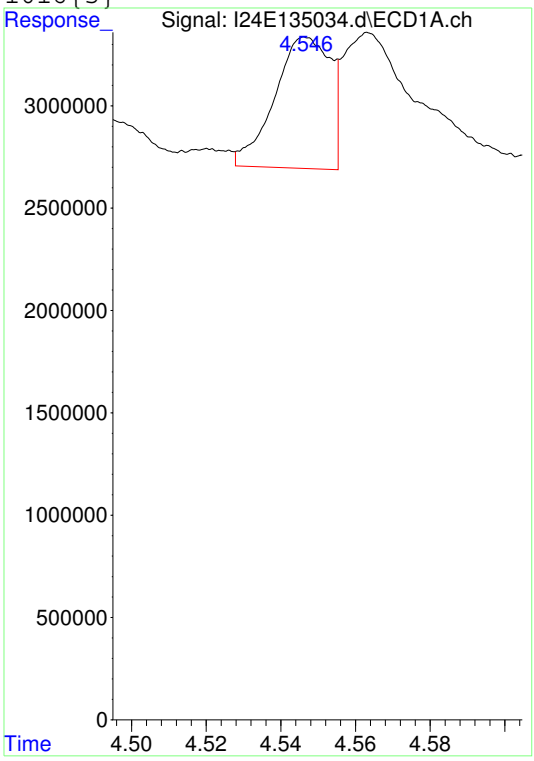
Wed May 15 08:22:35 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1016{4}



Original Integration
1016{5}



Original Int. Results

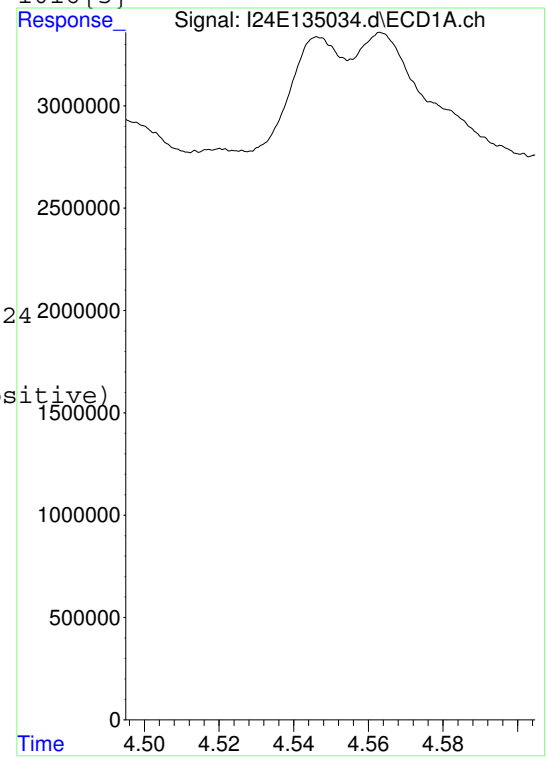
RT : 4.55
Area : 6.60249e+006
Amount: 4.5835

Manual Int. Results

Wed May 15 08:22:35 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

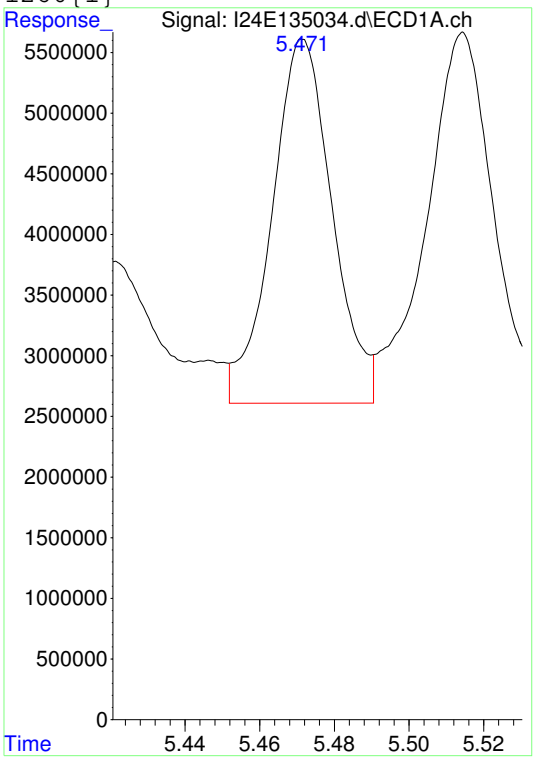
Manual Integration
1016{5}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135034.d
Acq On : 14 May 2024 7:13 pm
Operator : PJG
Sample : 24E1437-02@4X TBA
Misc :

Quant Time : Wed May 15 08:22:55 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1260{1}



Original Int. Results

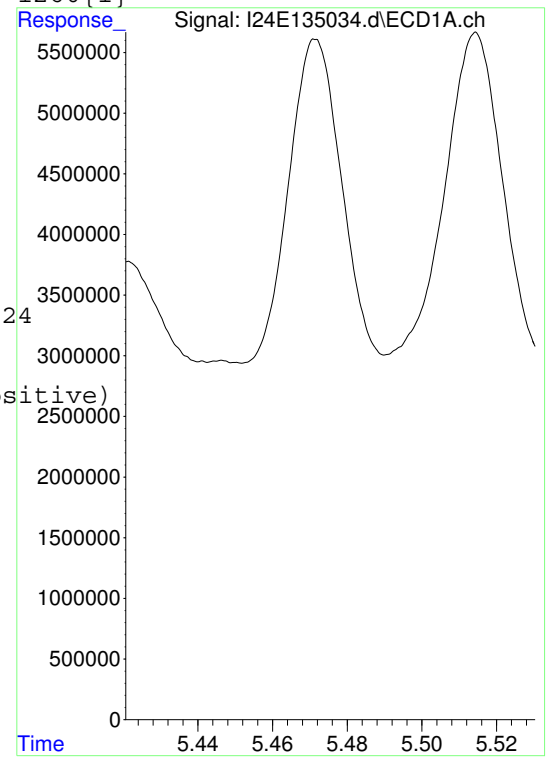
RT : 5.47
Area : 3.35981e+007
Amount: 8.01559

Manual Int. Results

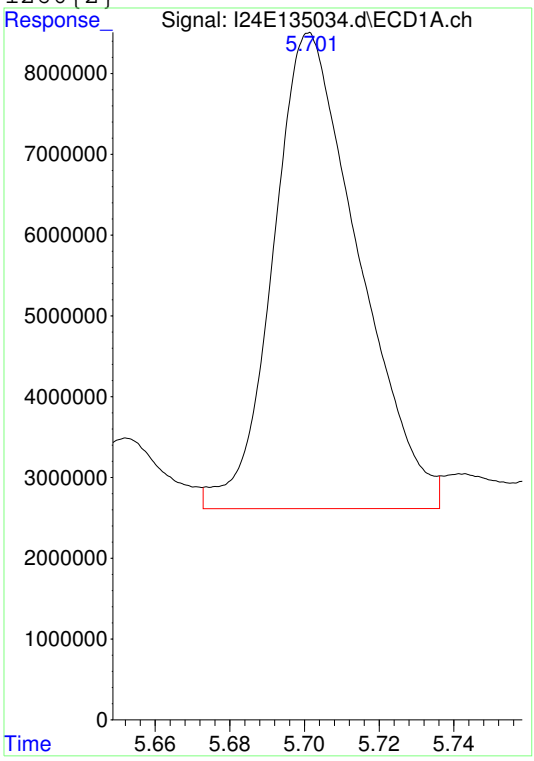
Wed May 15 08:22:35 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1260{1}



Original Integration
1260{2}



Original Int. Results

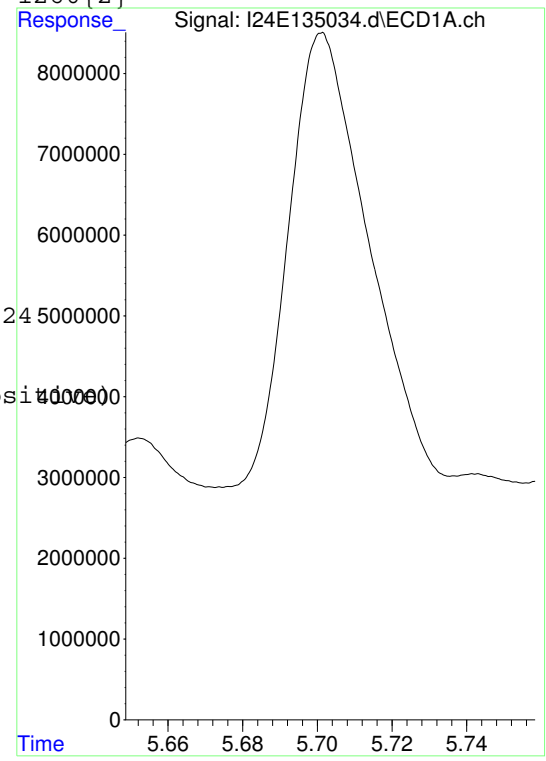
RT : 5.70
Area : 9.3756e+007
Amount: 15.0872

Manual Int. Results

Wed May 15 08:22:35 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

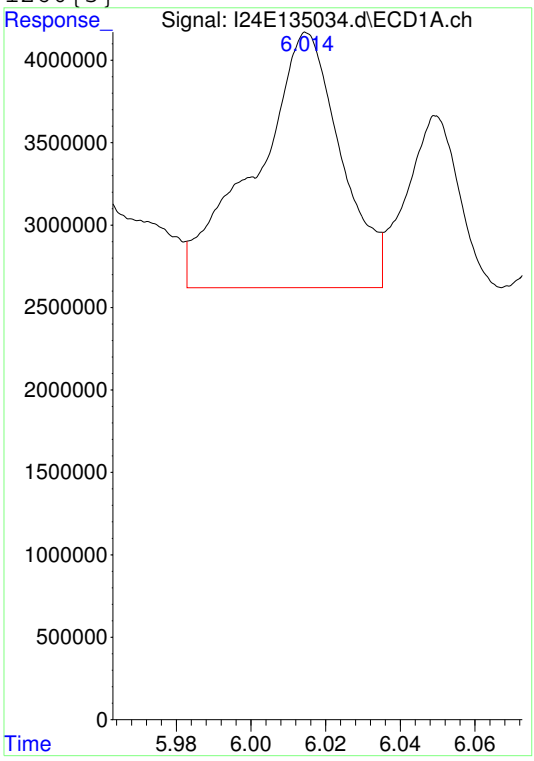
Manual Integration
1260{2}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135034.d
Acq On : 14 May 2024 7:13 pm
Operator : PJG
Sample : 24E1437-02@4X TBA
Misc :

Quant Time : Wed May 15 08:22:55 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1260{3}



Original Int. Results

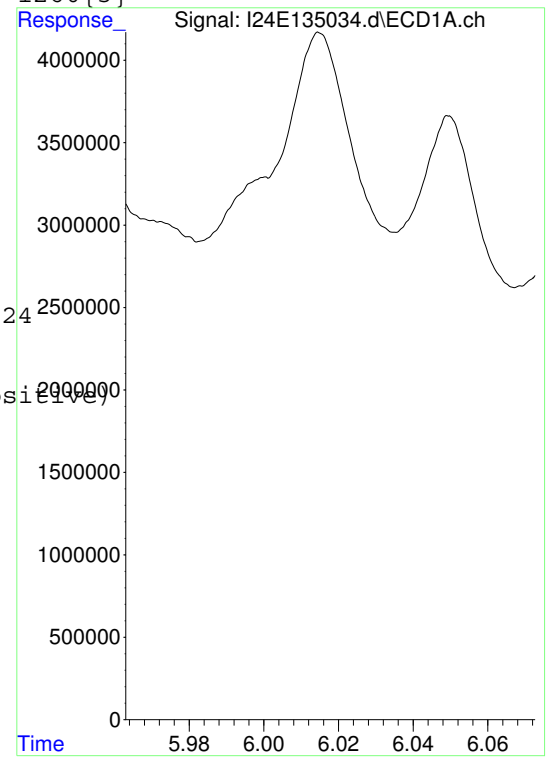
RT : 6.01
Area : 2.45976e+007
Amount: 6.1669

Manual Int. Results

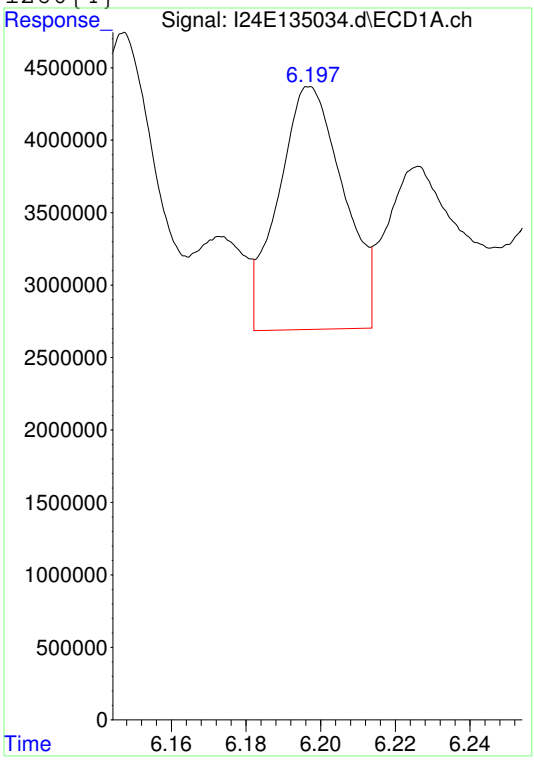
Wed May 15 08:22:35 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1260{3}



Original Integration
1260{4}



Original Int. Results

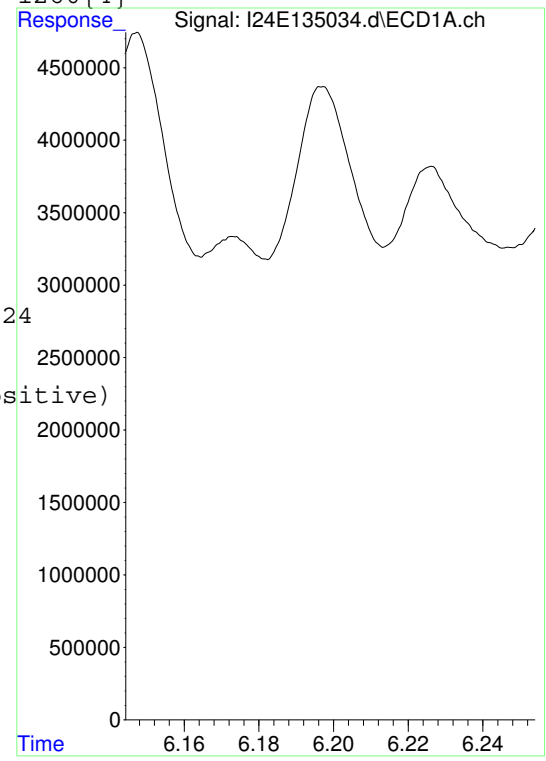
RT : 6.20
Area : 2.02846e+007
Amount: 5.0335

Manual Int. Results

Wed May 15 08:22:34 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

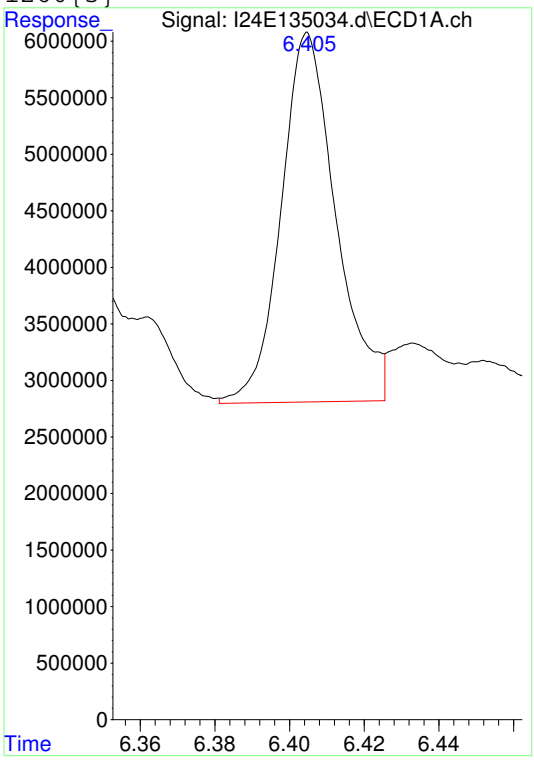
Manual Integration
1260{4}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135034.d
Acq On : 14 May 2024 7:13 pm
Operator : PJG
Sample : 24E1437-02@4X TBA
Misc :

Quant Time : Wed May 15 08:22:55 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1260{5}



Original Int. Results

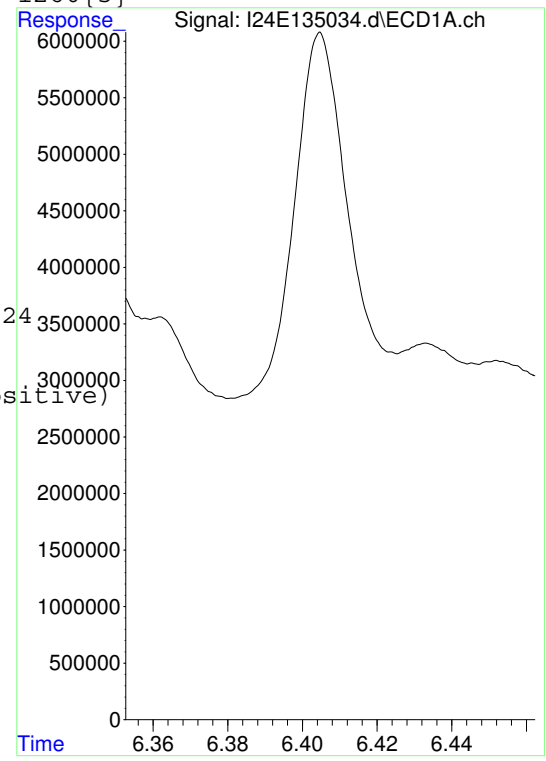
RT : 6.40
Area : 3.32417e+007
Amount: 3.93421

Manual Int. Results

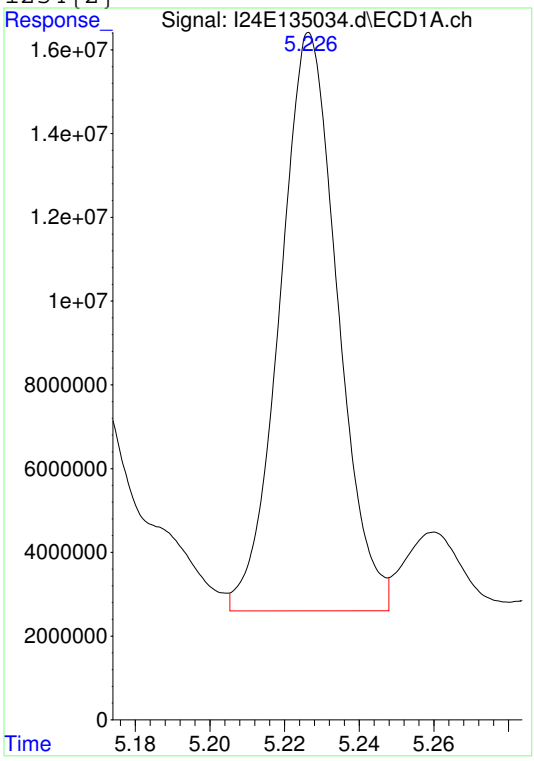
Wed May 15 08:22:34 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1260{5}



Original Integration
1254{2}



Original Int. Results

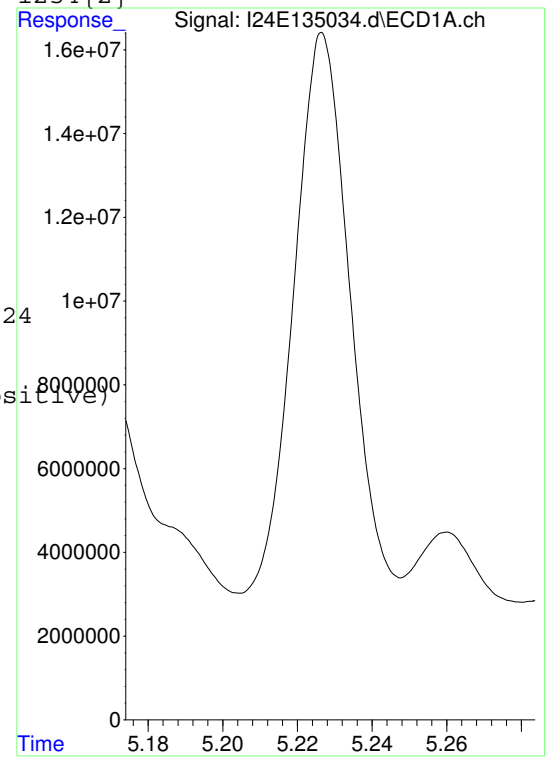
RT : 5.23
Area : 1.47952e+008
Amount: 45.127

Manual Int. Results

Wed May 15 08:22:46 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

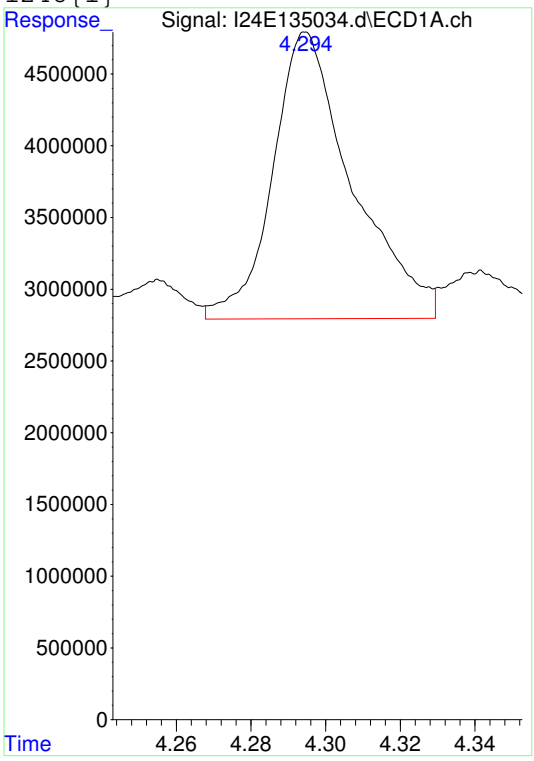
Manual Integration
1254{2}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135034.d
Acq On : 14 May 2024 7:13 pm
Operator : PJG
Sample : 24E1437-02@4X TBA
Misc :

Quant Time : Wed May 15 08:22:55 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1248{1}



Original Int. Results

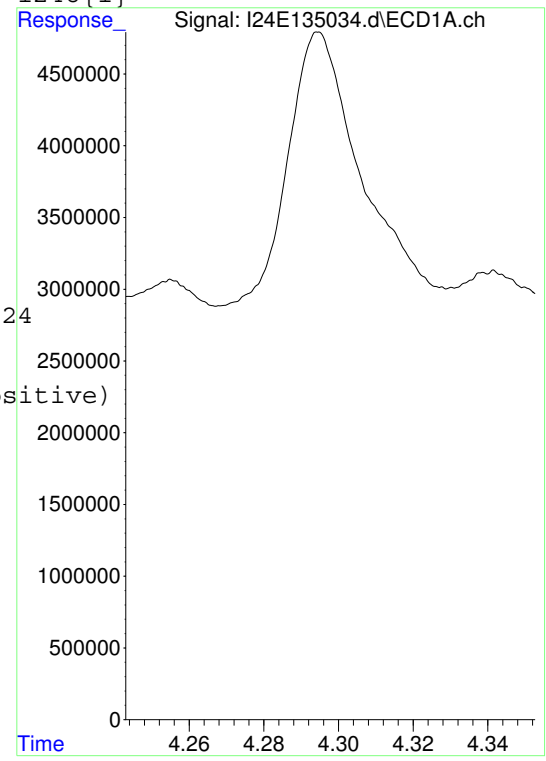
RT : 4.29
Area : 2.9479e+007
Amount: 15.9905

Manual Int. Results

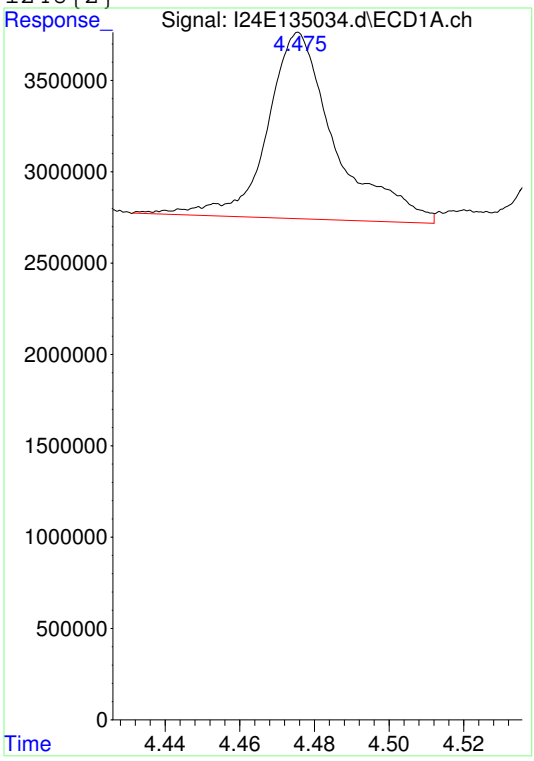
Wed May 15 08:22:34 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1248{1}



Original Integration
1248{2}



Original Int. Results

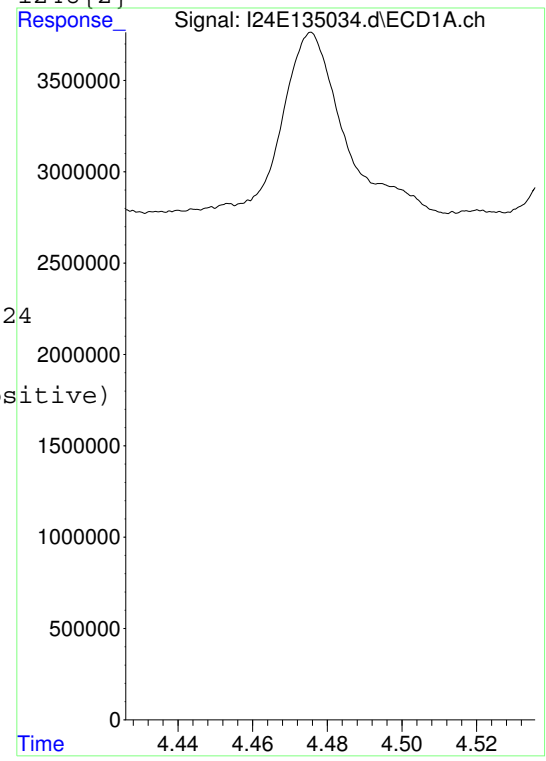
RT : 4.48
Area : 1.2937e+007
Amount: 5.04867

Manual Int. Results

Wed May 15 08:22:34 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

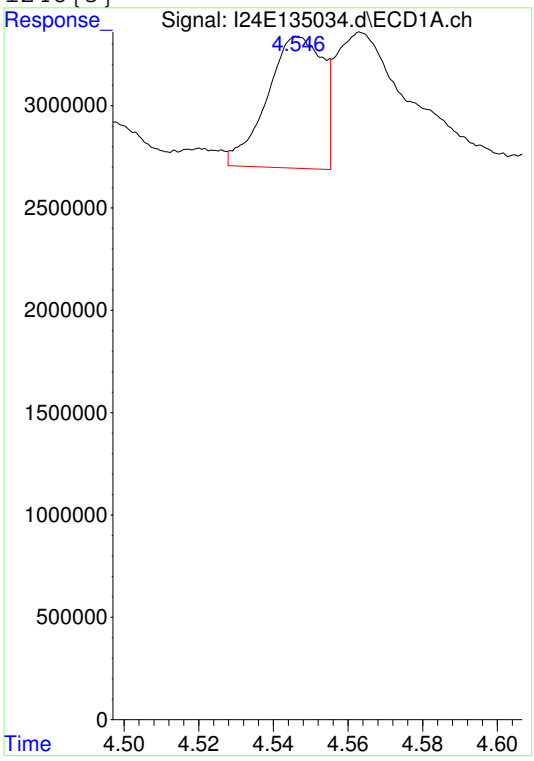
Manual Integration
1248{2}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135034.d
Acq On : 14 May 2024 7:13 pm
Operator : PJG
Sample : 24E1437-02@4X TBA
Misc :

Quant Time : Wed May 15 08:22:55 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1248{3}



Original Int. Results

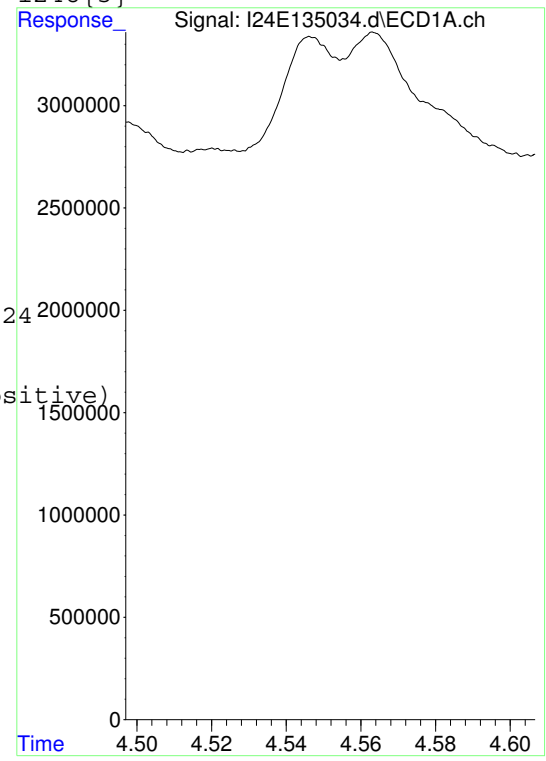
RT : 4.55
Area : 6.60249e+006
Amount: 3.73804

Manual Int. Results

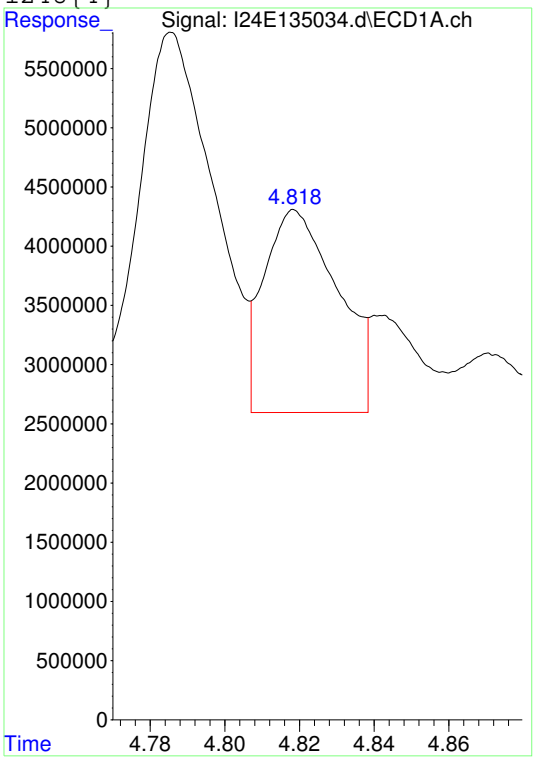
Wed May 15 08:22:34 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1248{3}



Original Integration
1248{4}



Original Int. Results

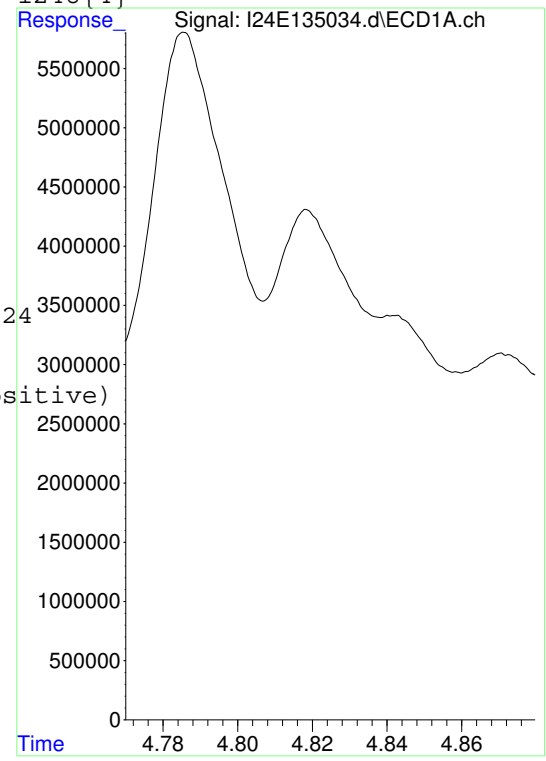
RT : 4.82
Area : 2.35345e+007
Amount: 7.9456

Manual Int. Results

Wed May 15 08:22:33 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

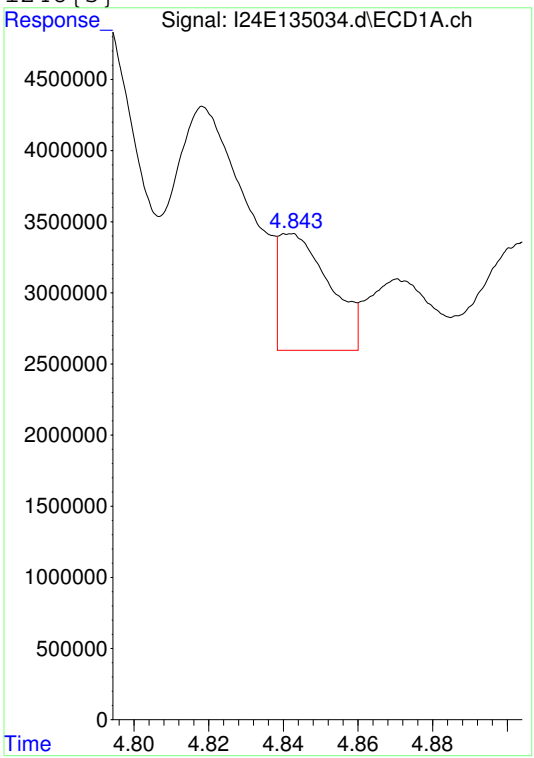
Manual Integration
1248{4}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135034.d
Acq On : 14 May 2024 7:13 pm
Operator : PJG
Sample : 24E1437-02@4X TBA
Misc :

Quant Time : Wed May 15 08:22:55 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1248{5}



Original Int. Results

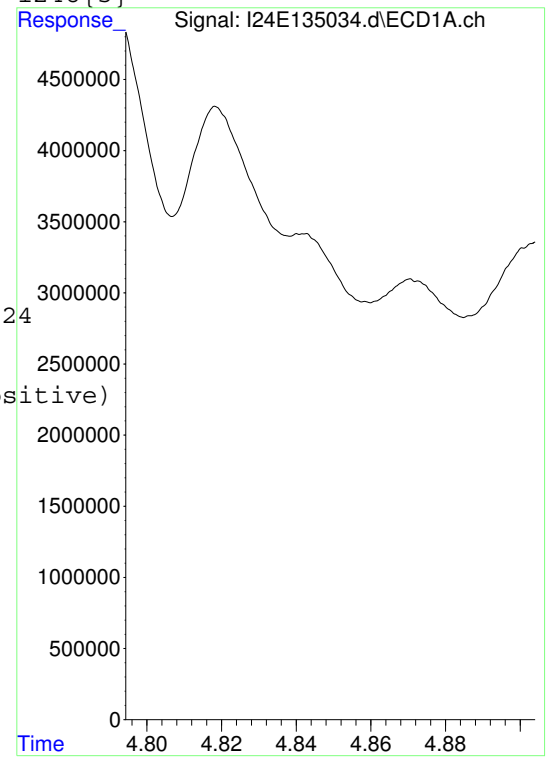
RT : 4.84
Area : 7.77533e+006
Amount: 2.71947

Manual Int. Results

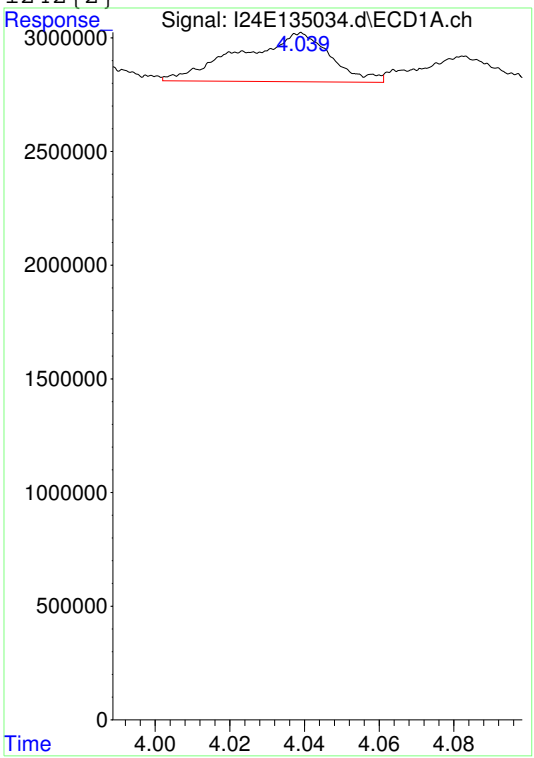
Wed May 15 08:22:33 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1248{5}



Original Integration
1242{2}



Original Int. Results

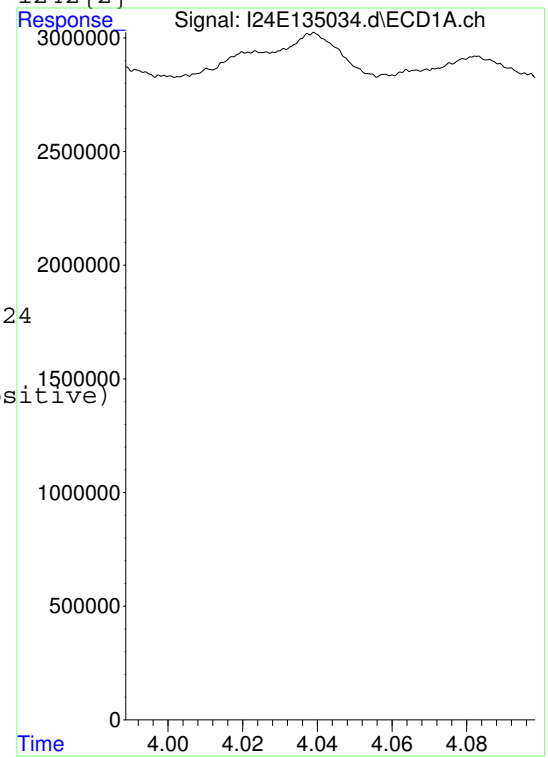
RT : 4.04
Area : 3.58738e+006
Amount: 1.09464

Manual Int. Results

Wed May 15 08:22:33 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

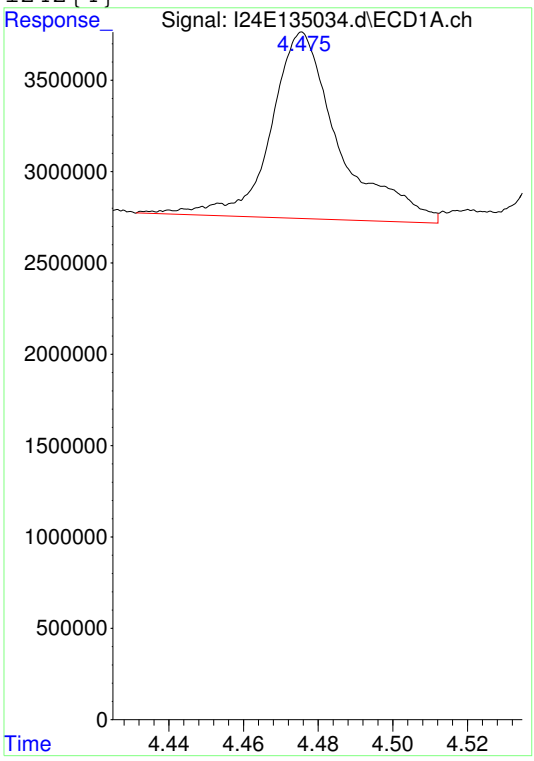
Manual Integration
1242{2}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135034.d
Acq On : 14 May 2024 7:13 pm
Operator : PJG
Sample : 24E1437-02@4X TBA
Misc :

Quant Time : Wed May 15 08:22:55 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1242{4}



Original Int. Results

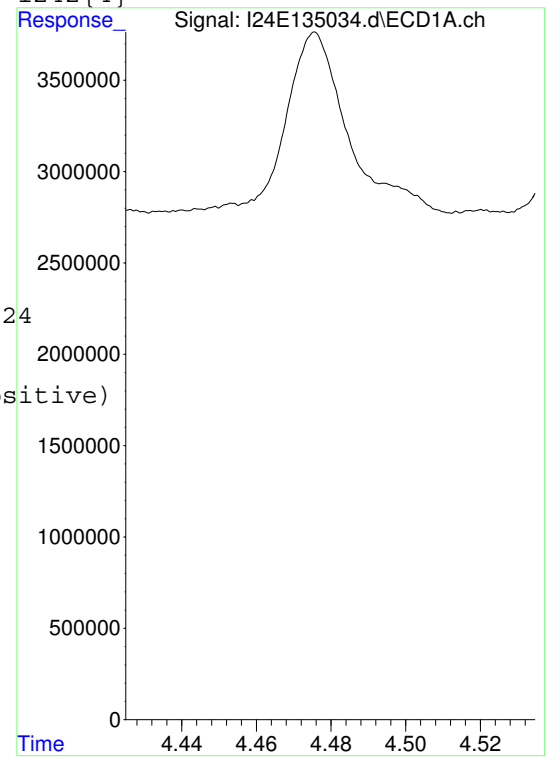
RT : 4.48
Area : 1.2937e+007
Amount: 7.0577

Manual Int. Results

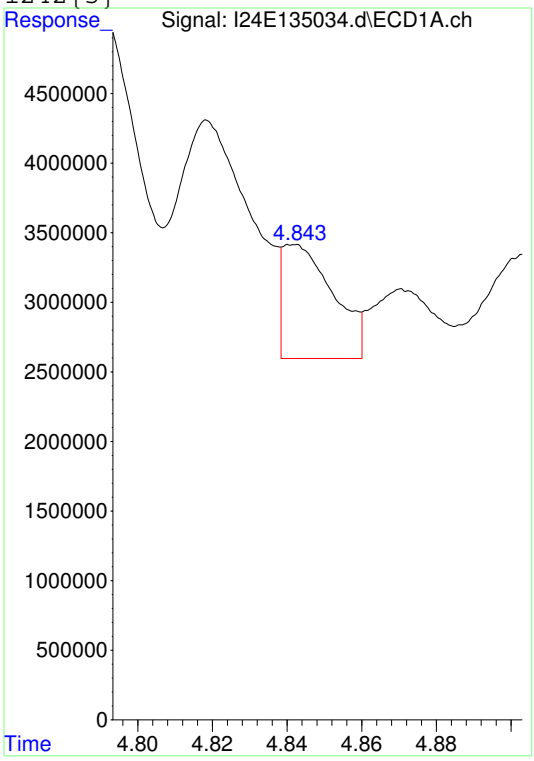
Wed May 15 08:22:32 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1242{4}



Original Integration
1242{5}



Original Int. Results

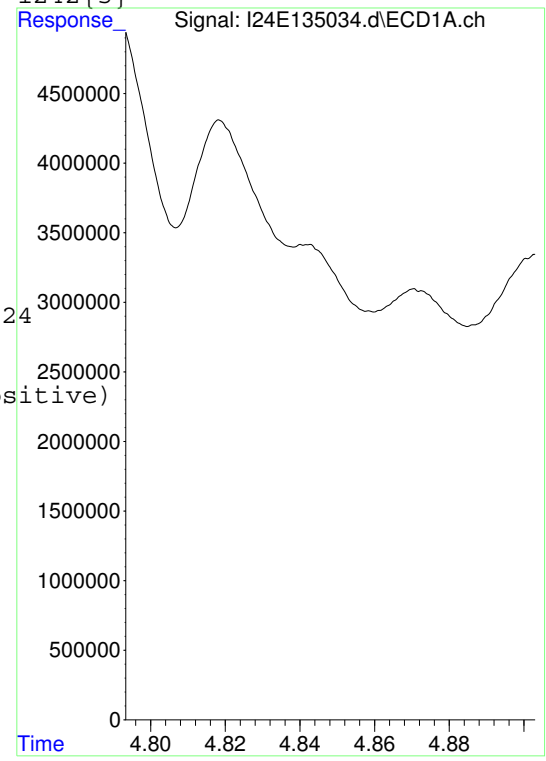
RT : 4.84
Area : 7.77533e+006
Amount: 4.16793

Manual Int. Results

Wed May 15 08:22:32 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

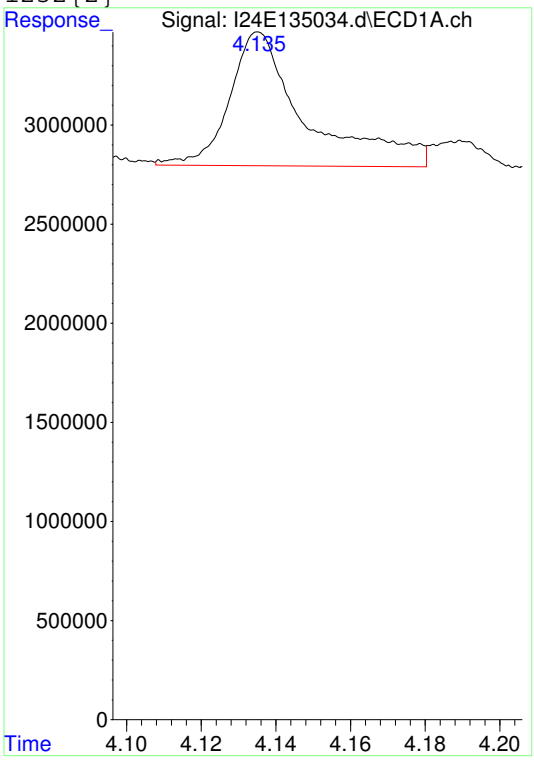
Manual Integration
1242{5}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135034.d
Acq On : 14 May 2024 7:13 pm
Operator : PJG
Sample : 24E1437-02@4X TBA
Misc :

Quant Time : Wed May 15 08:22:55 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1232{2}



Original Int. Results

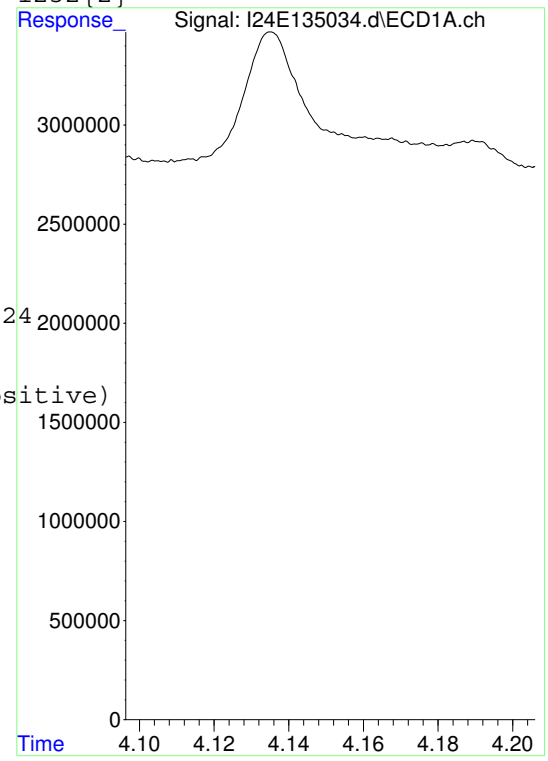
RT : 4.14
Area : 9.5236e+006
Amount: 6.71822

Manual Int. Results

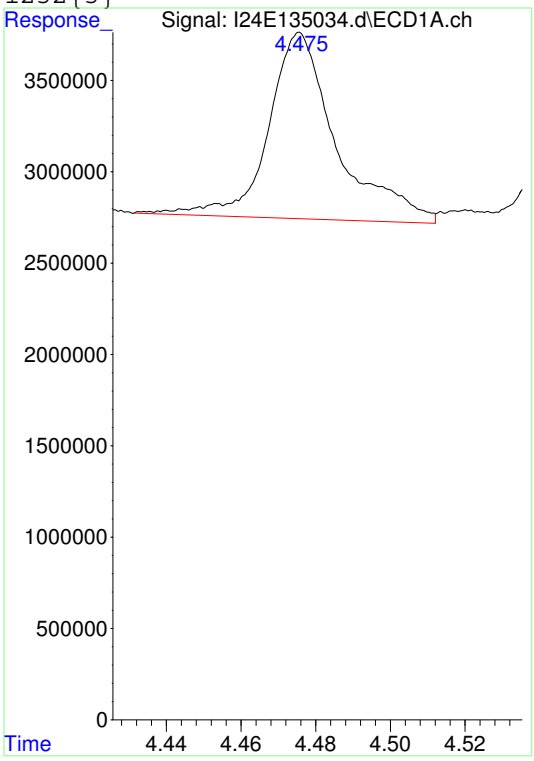
Wed May 15 08:22:32 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1232{2}



Original Integration
1232{3}



Original Int. Results

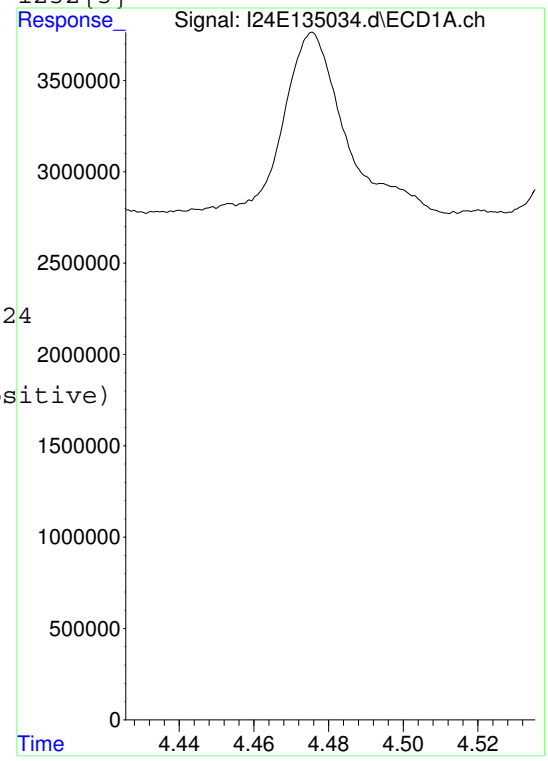
RT : 4.48
Area : 1.2937e+007
Amount: 12.8592

Manual Int. Results

Wed May 15 08:22:32 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

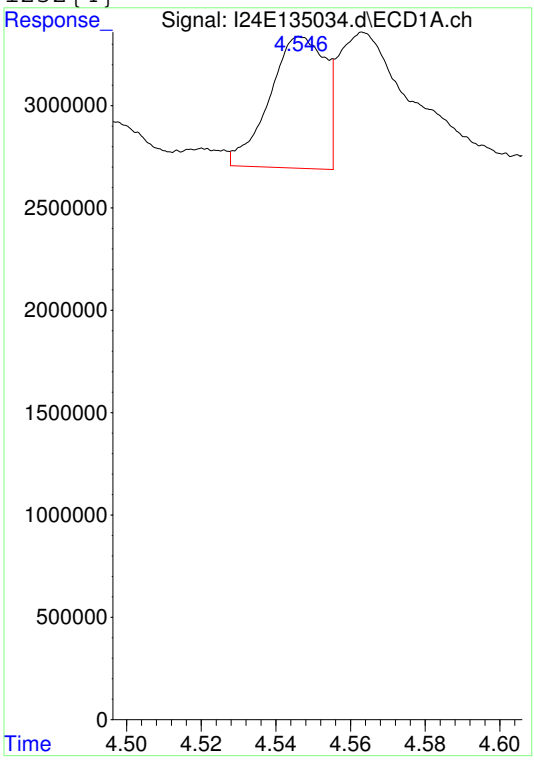
Manual Integration
1232{3}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135034.d
Acq On : 14 May 2024 7:13 pm
Operator : PJG
Sample : 24E1437-02@4X TBA
Misc :

Quant Time : Wed May 15 08:22:55 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1232{4}



Original Int. Results

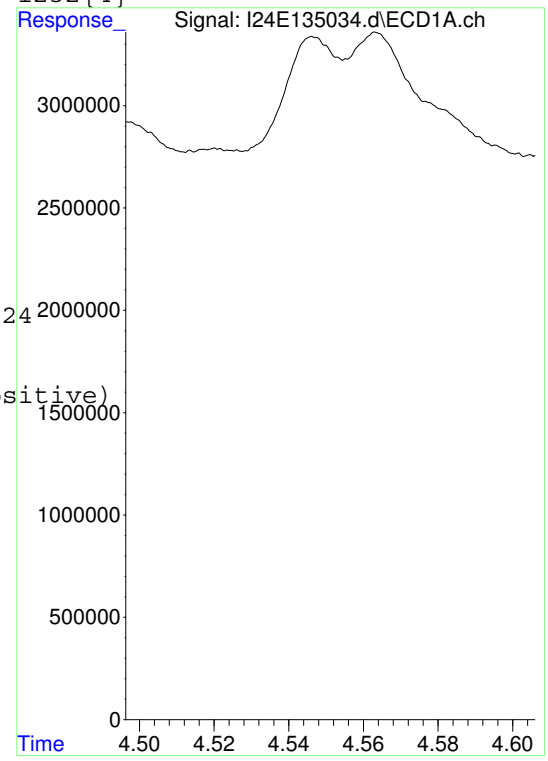
RT : 4.55
Area : 6.60249e+006
Amount: 9.76414

Manual Int. Results

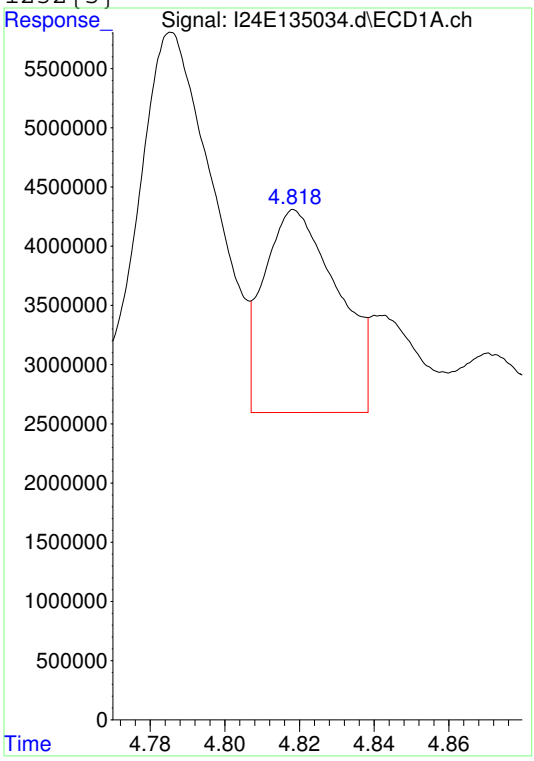
Wed May 15 08:22:31 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1232{4}



Original Integration
1232{5}



Original Int. Results

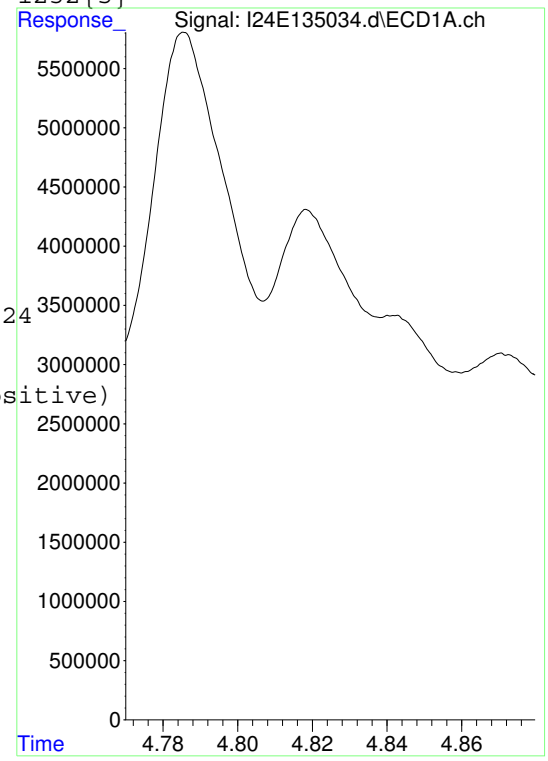
RT : 4.82
Area : 2.35345e+007
Amount: 23.9153

Manual Int. Results

Wed May 15 08:22:31 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

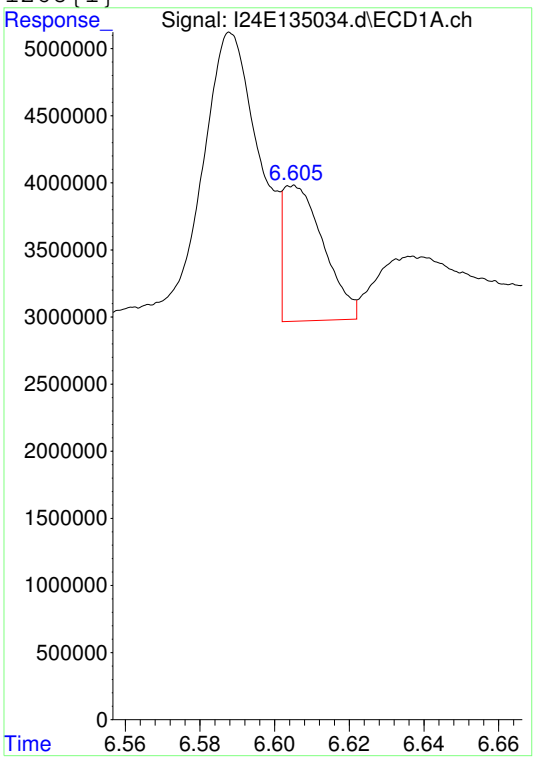
Manual Integration
1232{5}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135034.d
Acq On : 14 May 2024 7:13 pm
Operator : PJG
Sample : 24E1437-02@4X TBA
Misc :

Quant Time : Wed May 15 08:22:55 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1268{1}



Original Int. Results

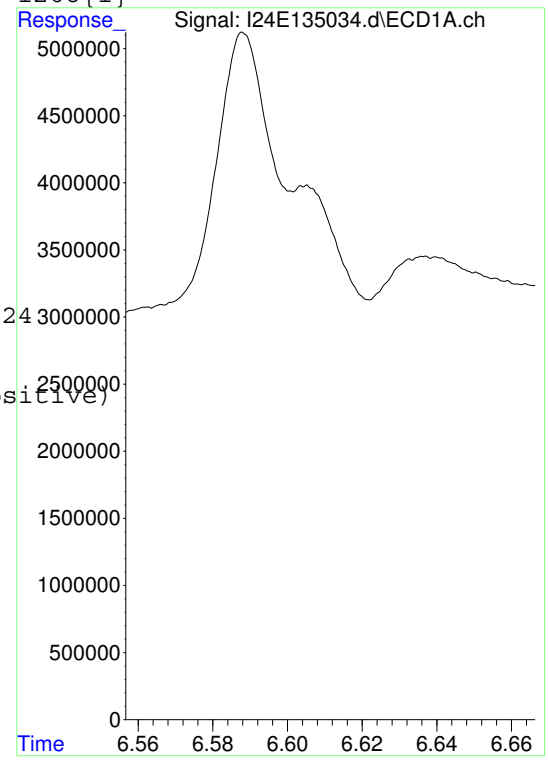
RT : 6.60
Area : 7.66366e+006
Amount: 0.72879

Manual Int. Results

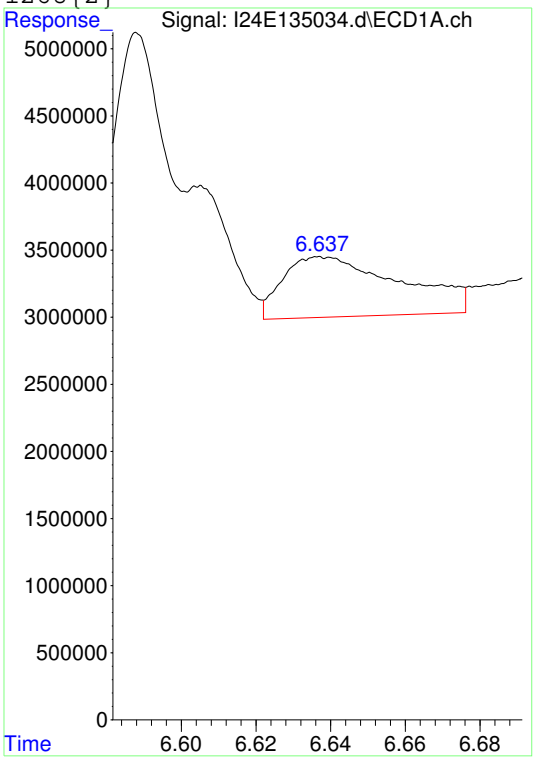
Wed May 15 08:22:31 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1268{1}



Original Integration
1268{2}



Original Int. Results

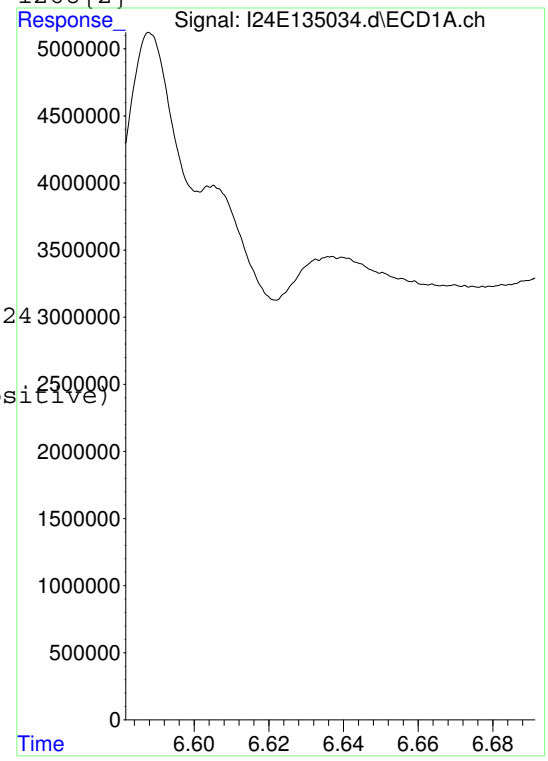
RT : 6.64
Area : 9.80283e+006
Amount: 0.915503

Manual Int. Results

Wed May 15 08:22:31 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

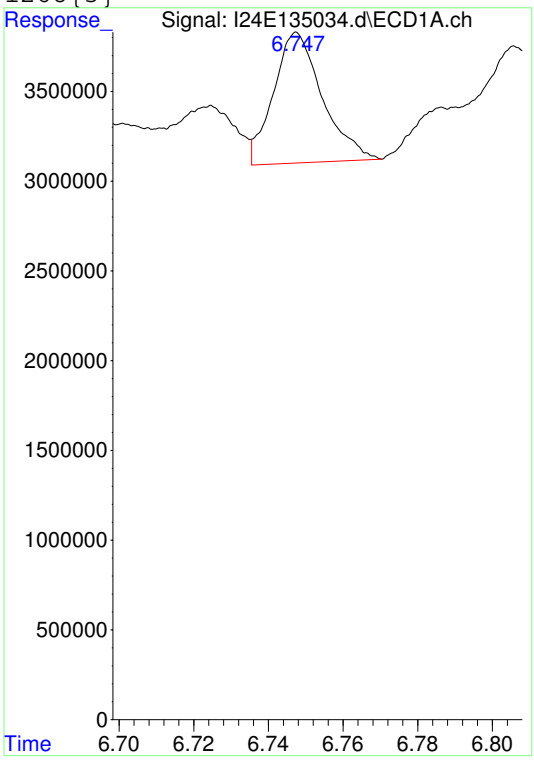
Manual Integration
1268{2}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135034.d
Acq On : 14 May 2024 7:13 pm
Operator : PJG
Sample : 24E1437-02@4X TBA
Misc :

Quant Time : Wed May 15 08:22:55 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1268{3}



Original Int. Results

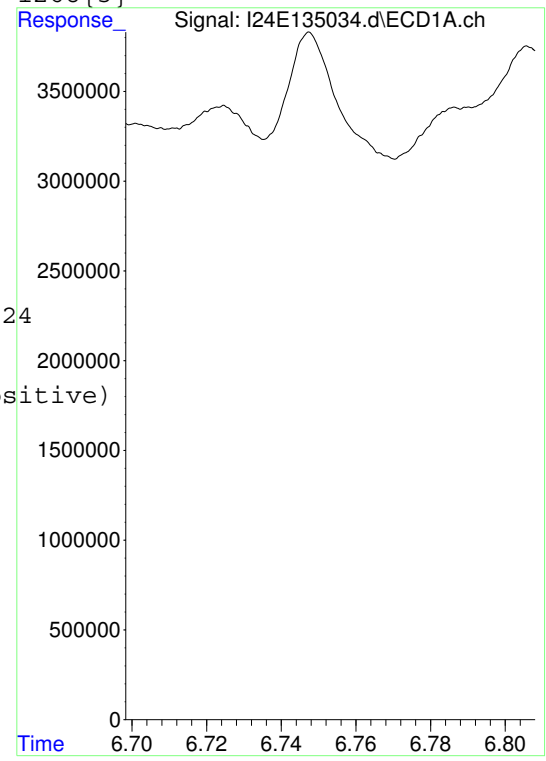
RT : 6.75
Area : 6.62097e+006
Amount: 0.688686

Manual Int. Results

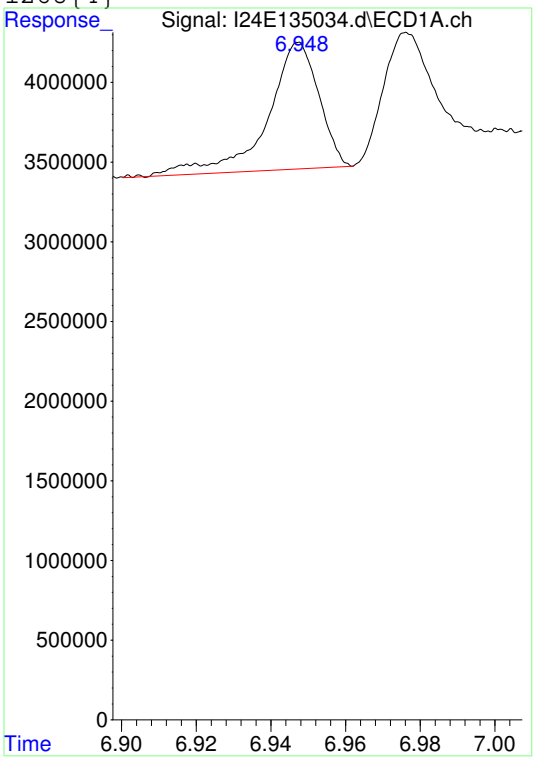
Wed May 15 08:22:30 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1268{3}



Original Integration
1268{4}



Original Int. Results

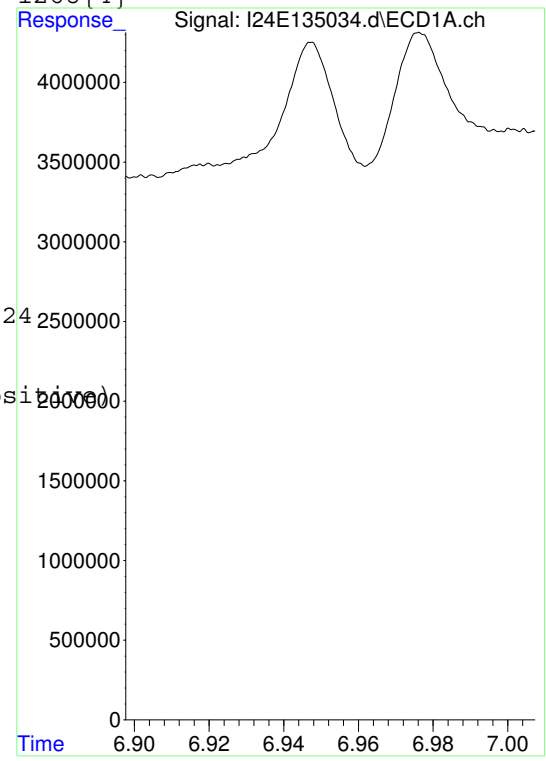
RT : 6.95
Area : 7.62229e+006
Amount: 2.60587

Manual Int. Results

Wed May 15 08:22:30 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

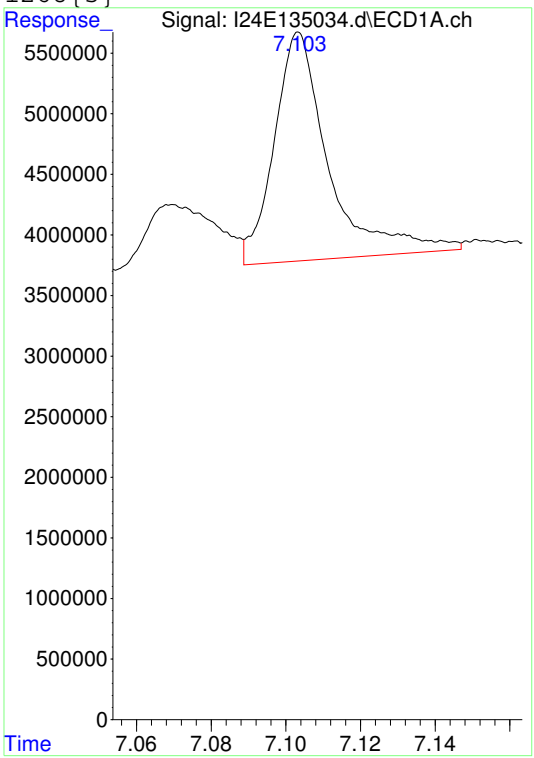
Manual Integration
1268{4}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135034.d
Acq On : 14 May 2024 7:13 pm
Operator : PJG
Sample : 24E1437-02@4X TBA
Misc :

Quant Time : Wed May 15 08:22:55 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1268{5}



Original Int. Results

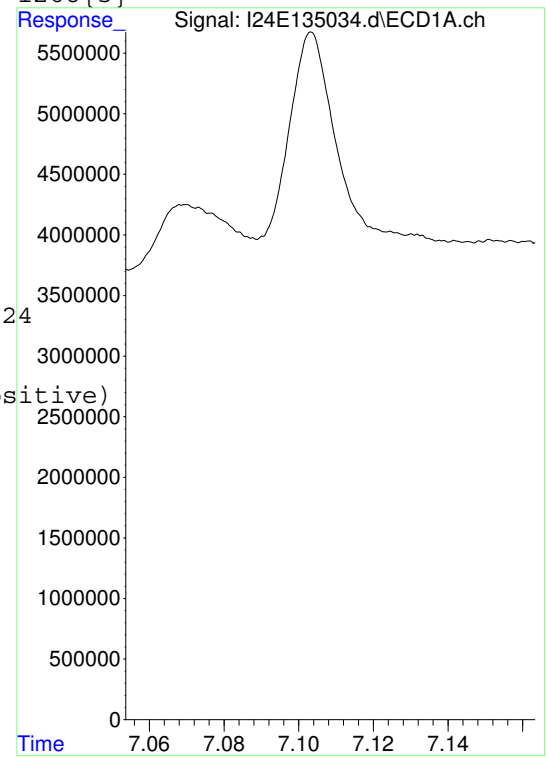
RT : 7.10
Area : 1.91434e+007
Amount: 0.774525

Manual Int. Results

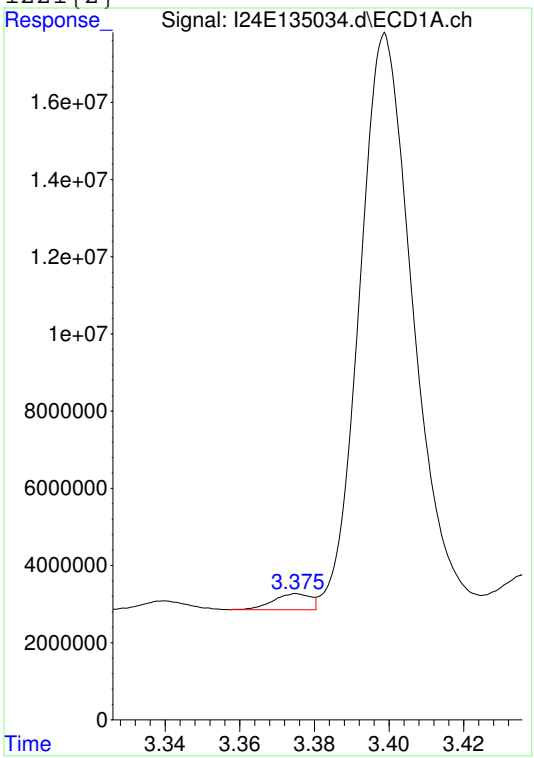
Wed May 15 08:22:30 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1268{5}



Original Integration
1221{2}



Original Int. Results

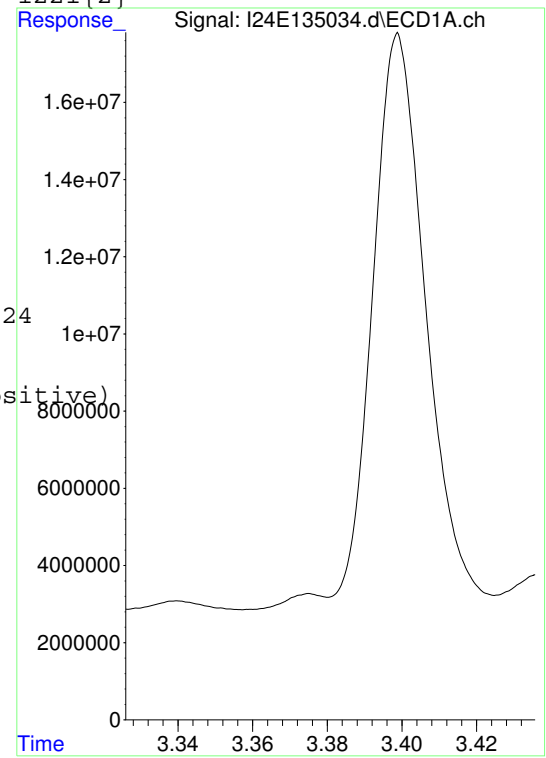
RT : 3.38
Area : 2.85389e+006
Amount: 1.38094

Manual Int. Results

Wed May 15 08:22:30 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

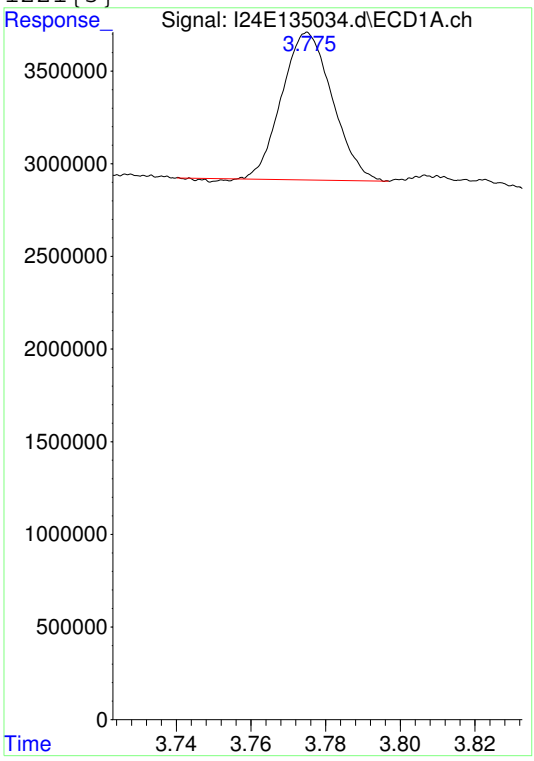
Manual Integration
1221{2}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135034.d
Acq On : 14 May 2024 7:13 pm
Operator : PJG
Sample : 24E1437-02@4X TBA
Misc :

Quant Time : Wed May 15 08:22:55 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1221{3}



Original Int. Results

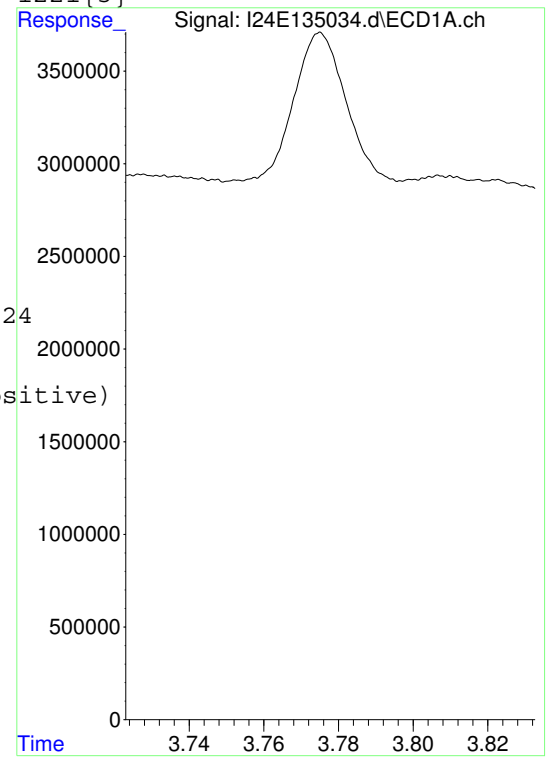
RT : 3.78
Area : 7.42869e+006
Amount: 25.533

Manual Int. Results

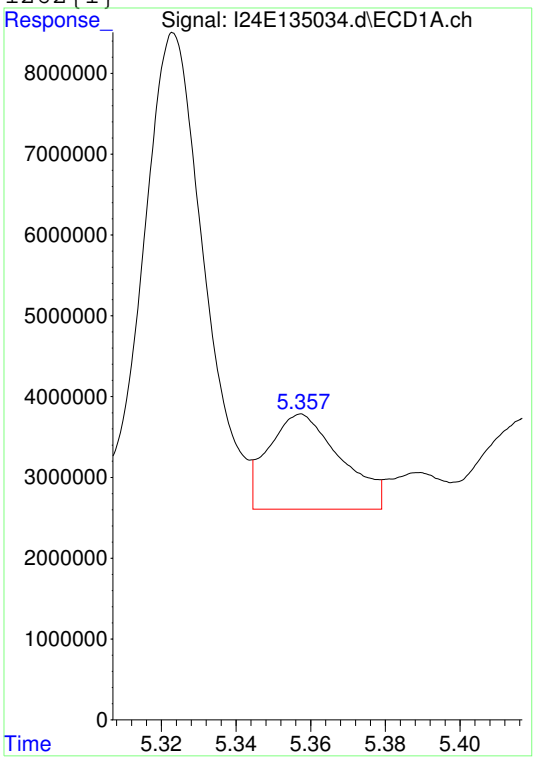
Wed May 15 08:22:29 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1221{3}



Original Integration
1262{1}



Original Int. Results

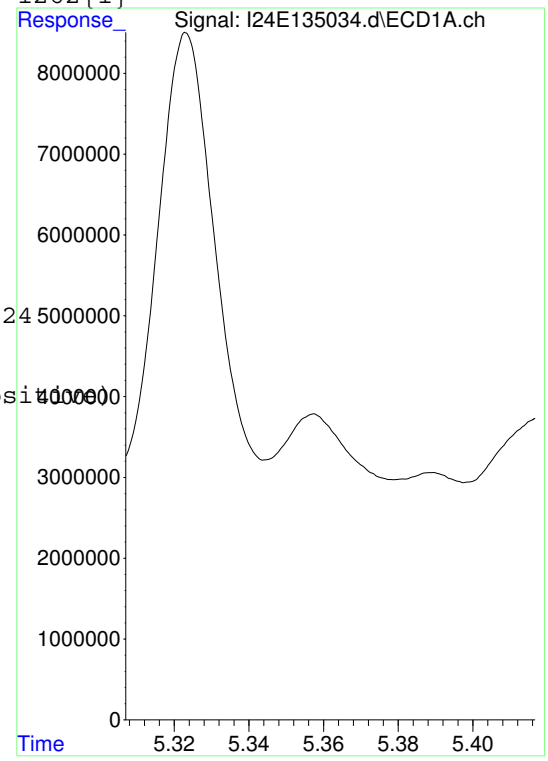
RT : 5.36
Area : 1.59229e+007
Amount: 7.83841

Manual Int. Results

Wed May 15 08:22:29 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

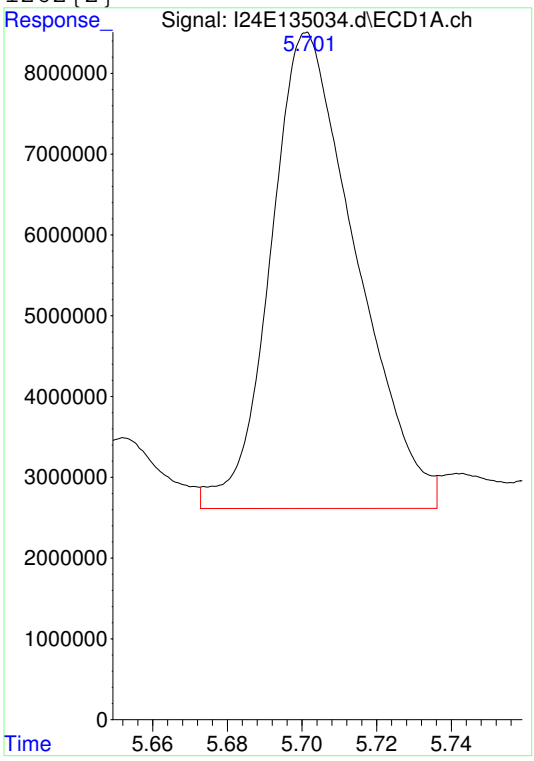
Manual Integration
1262{1}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135034.d
Acq On : 14 May 2024 7:13 pm
Operator : PJG
Sample : 24E1437-02@4X TBA
Misc :

Quant Time : Wed May 15 08:22:55 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1262{2}



Original Int. Results

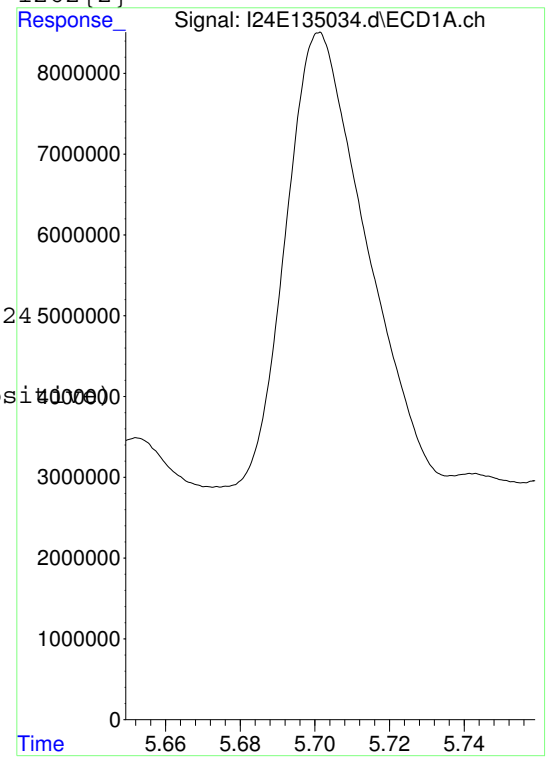
RT : 5.70
Area : 9.3756e+007
Amount: 20.0571

Manual Int. Results

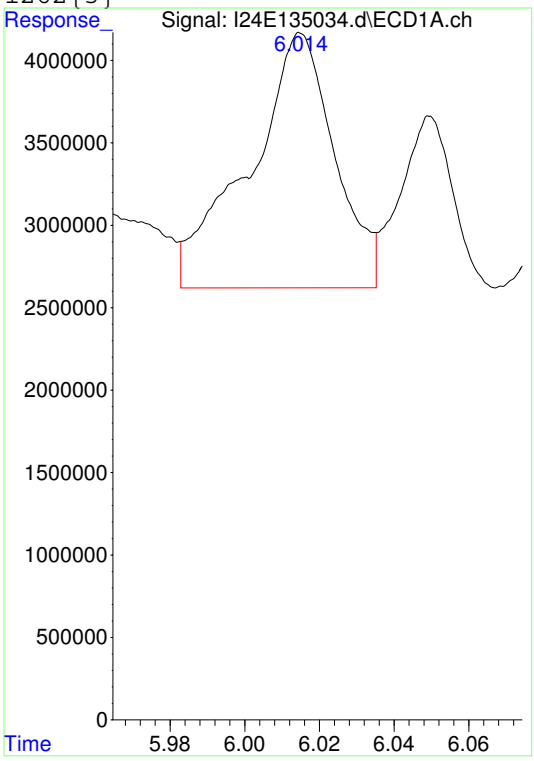
Wed May 15 08:22:29 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1262{2}



Original Integration
1262{3}



Original Int. Results

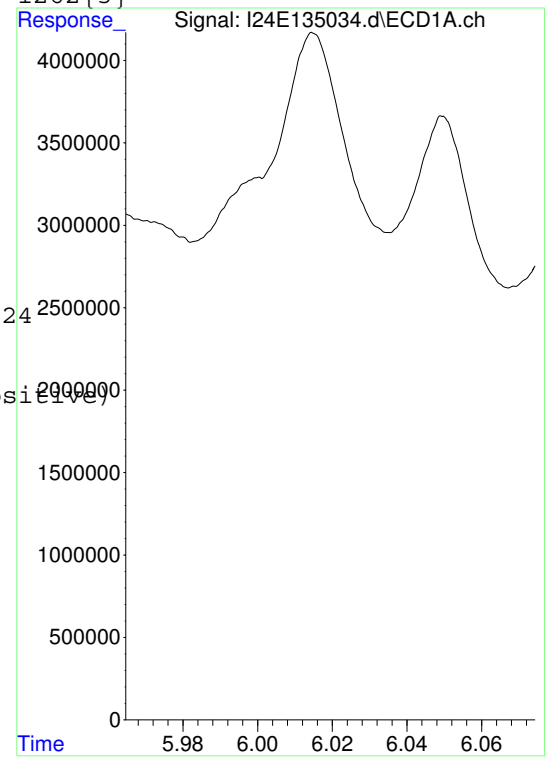
RT : 6.01
Area : 2.45976e+007
Amount: 4.96817

Manual Int. Results

Wed May 15 08:22:29 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

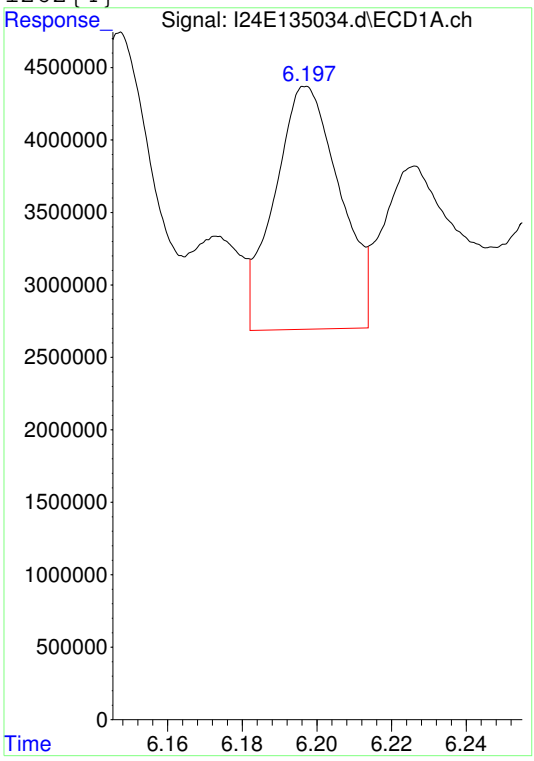
Manual Integration
1262{3}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135034.d
Acq On : 14 May 2024 7:13 pm
Operator : PJG
Sample : 24E1437-02@4X TBA
Misc :

Quant Time : Wed May 15 08:22:55 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1262{4}



Original Int. Results

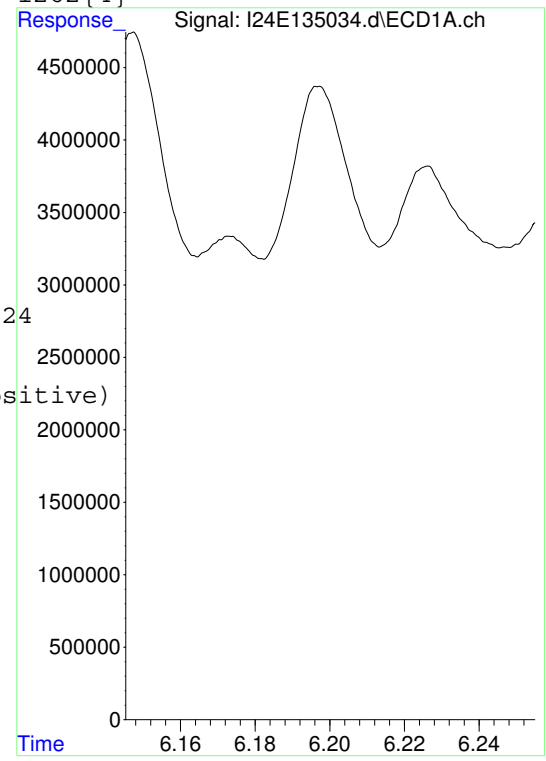
RT : 6.20
Area : 2.02846e+007
Amount: 4.48457

Manual Int. Results

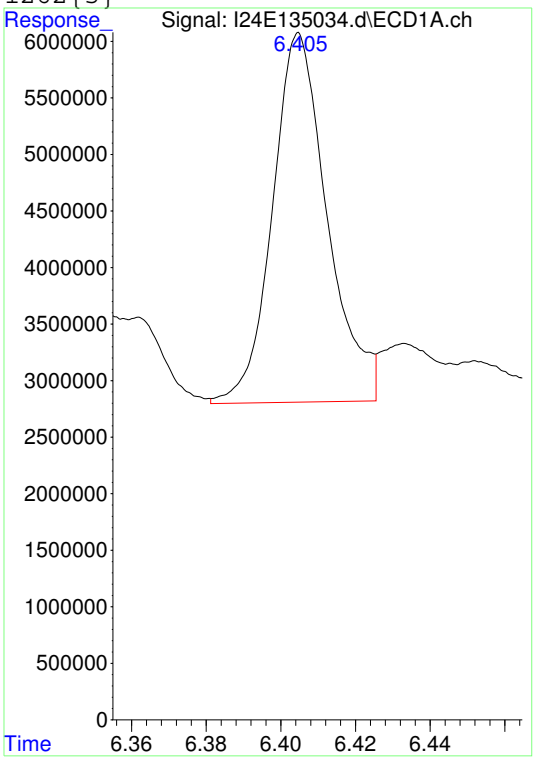
Wed May 15 08:22:29 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1262{4}



Original Integration
1262{5}



Original Int. Results

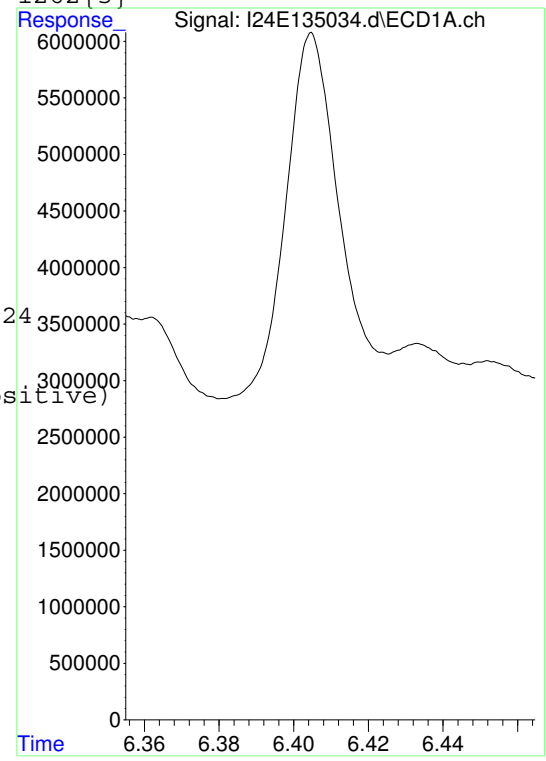
RT : 6.40
Area : 3.32417e+007
Amount: 3.29889

Manual Int. Results

Wed May 15 08:22:27 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

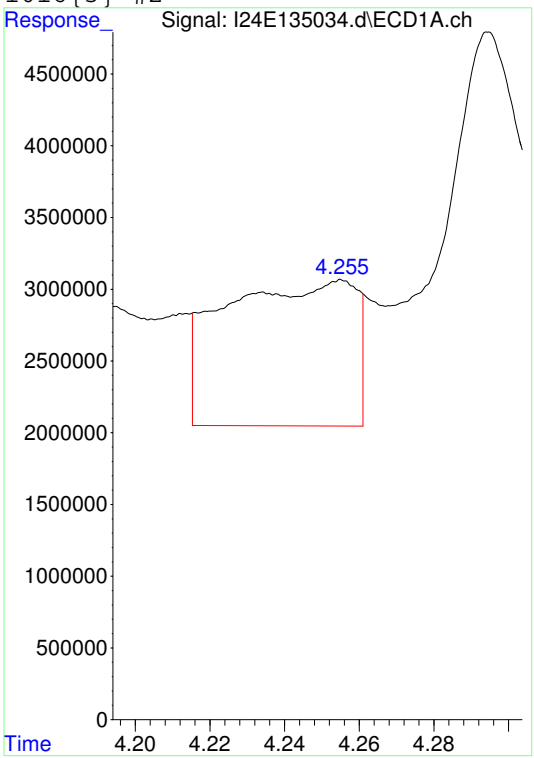
Manual Integration
1262{5}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135034.d
Acq On : 14 May 2024 7:13 pm
Operator : PJG
Sample : 24E1437-02@4X TBA
Misc :

Quant Time : Wed May 15 08:22:55 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1016{3} #2



Original Int. Results

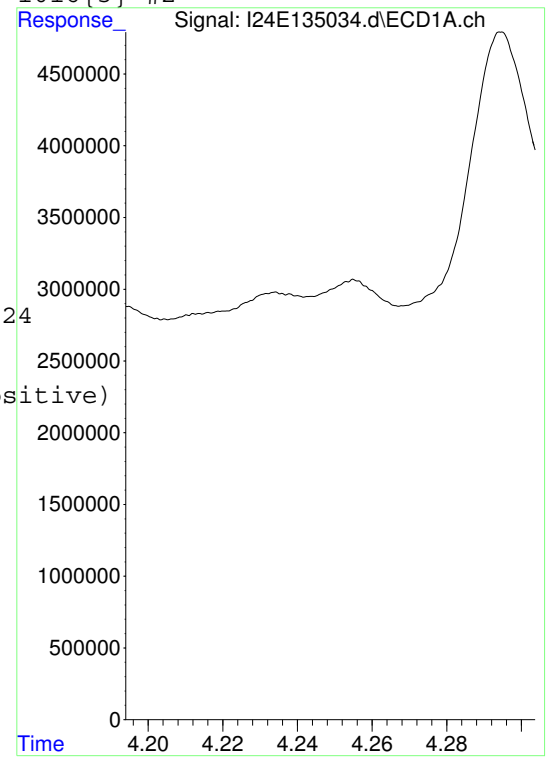
RT : 4.23
Area : 9.0021e+006
Amount: 6.90169

Manual Int. Results

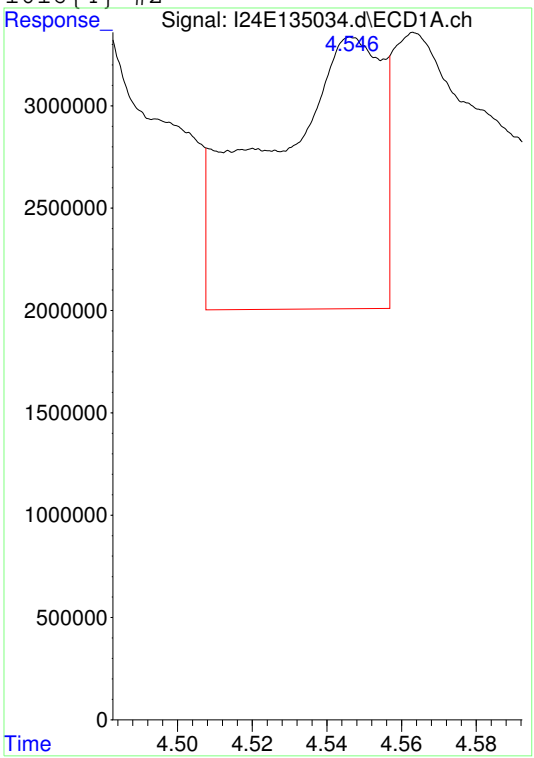
Wed May 15 08:22:36 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1016{3} #2



Original Integration
1016{4} #2



Original Int. Results

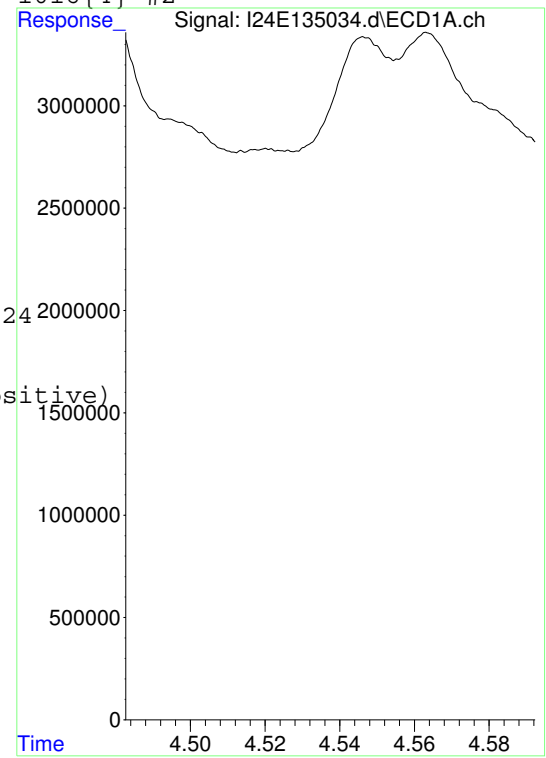
RT : 4.54
Area : 1.07263e+007
Amount: 6.35958

Manual Int. Results

Wed May 15 08:22:35 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

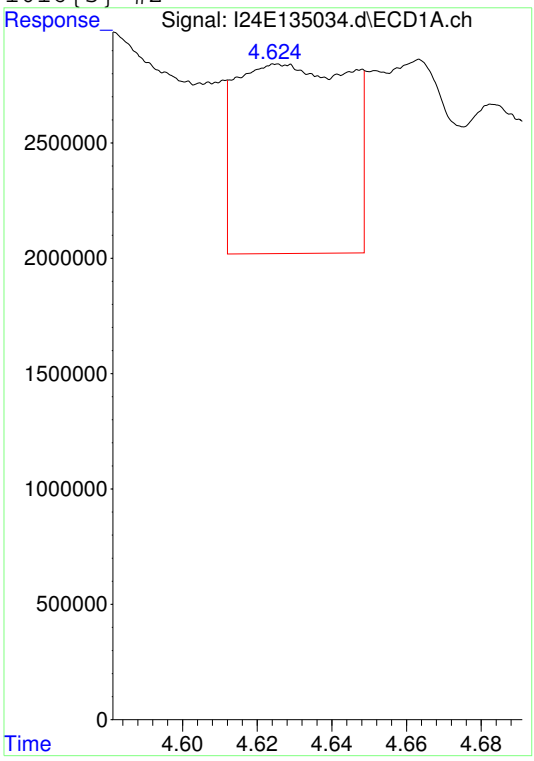
Manual Integration
1016{4} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135034.d
Acq On : 14 May 2024 7:13 pm
Operator : PJG
Sample : 24E1437-02@4X TBA
Misc :

Quant Time : Wed May 15 08:22:55 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1016{5} #2



Original Int. Results

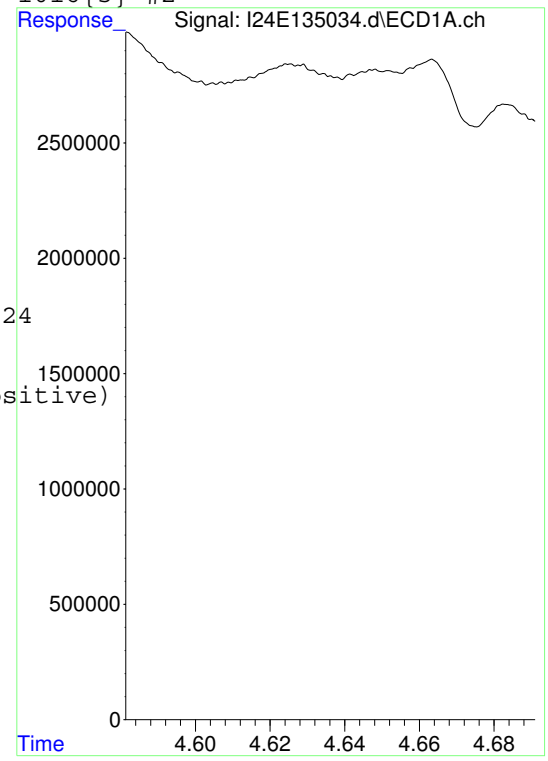
RT : 4.63
Area : 5.41211e+006
Amount: 3.41776

Manual Int. Results

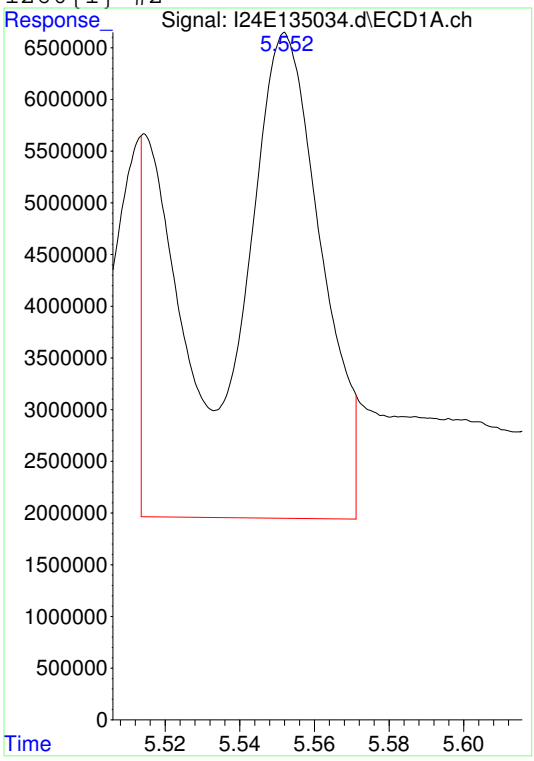
Wed May 15 08:22:35 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1016{5} #2



Original Integration
1260{1} #2



Original Int. Results

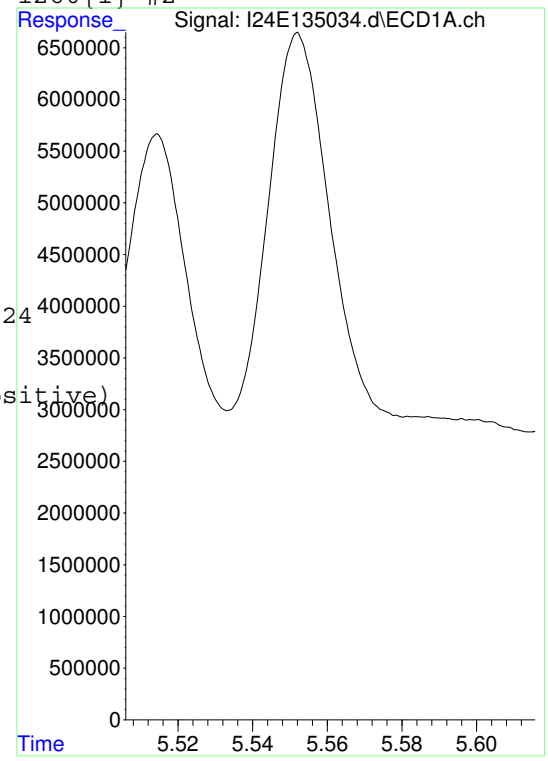
RT : 5.56
Area : 4.03495e+007
Amount: 11.6904

Manual Int. Results

Wed May 15 08:22:35 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

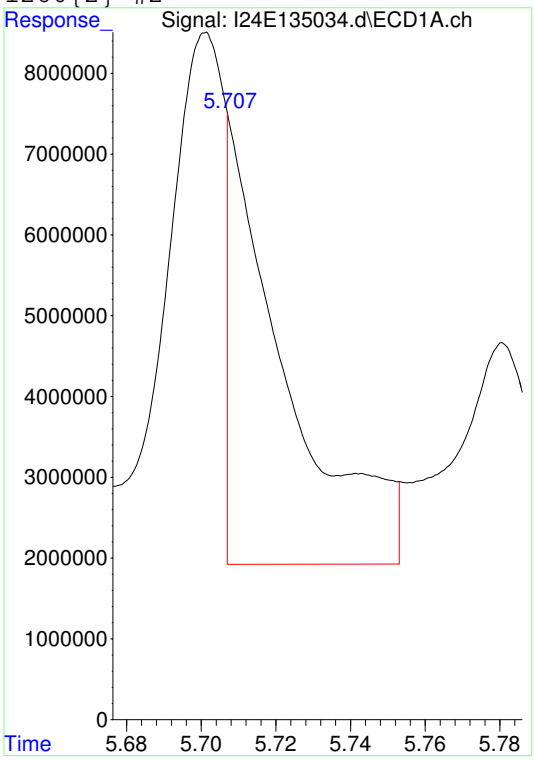
Manual Integration
1260{1} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135034.d
Acq On : 14 May 2024 7:13 pm
Operator : PJG
Sample : 24E1437-02@4X TBA
Misc :

Quant Time : Wed May 15 08:22:55 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1260{2} #2



Original Int. Results

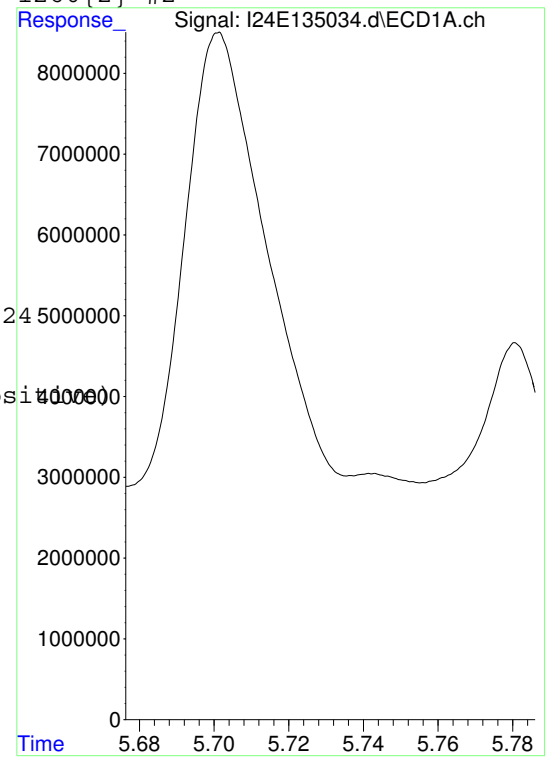
RT : 5.73
Area : 5.05702e+007
Amount: 12.5433

Manual Int. Results

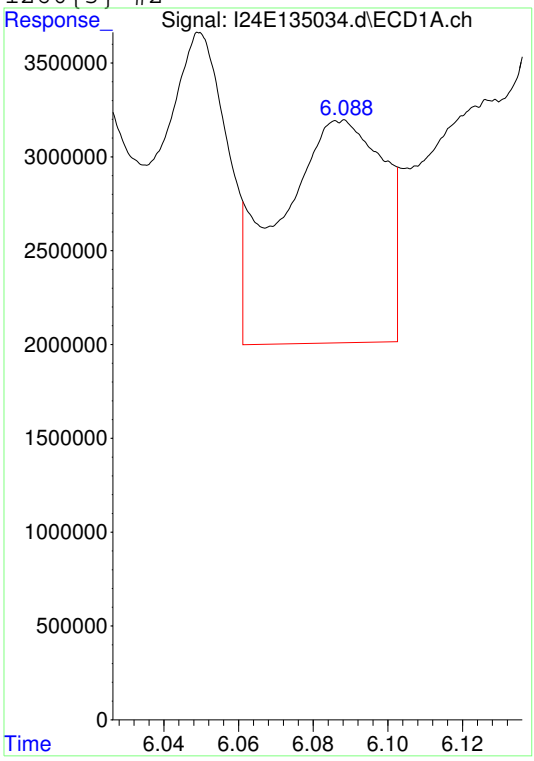
Wed May 15 08:22:35 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1260{2} #2



Original Integration
1260{3} #2



Original Int. Results

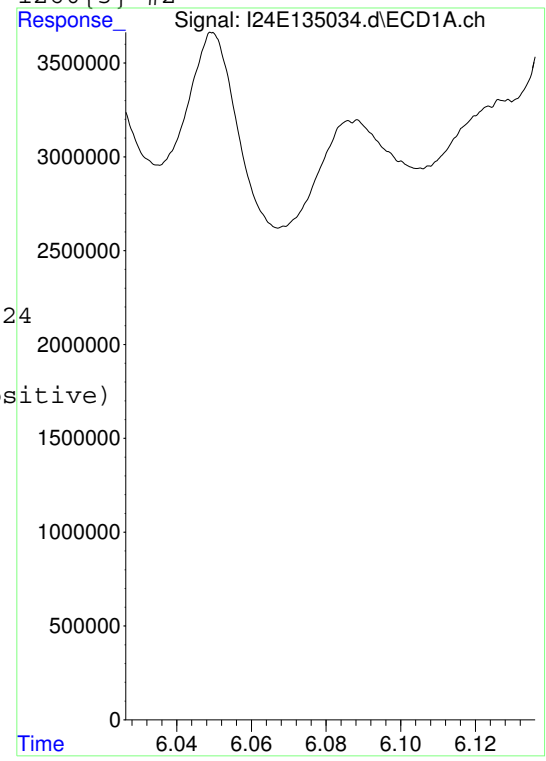
RT : 6.08
Area : 1.64804e+007
Amount: 5.45065

Manual Int. Results

Wed May 15 08:22:35 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

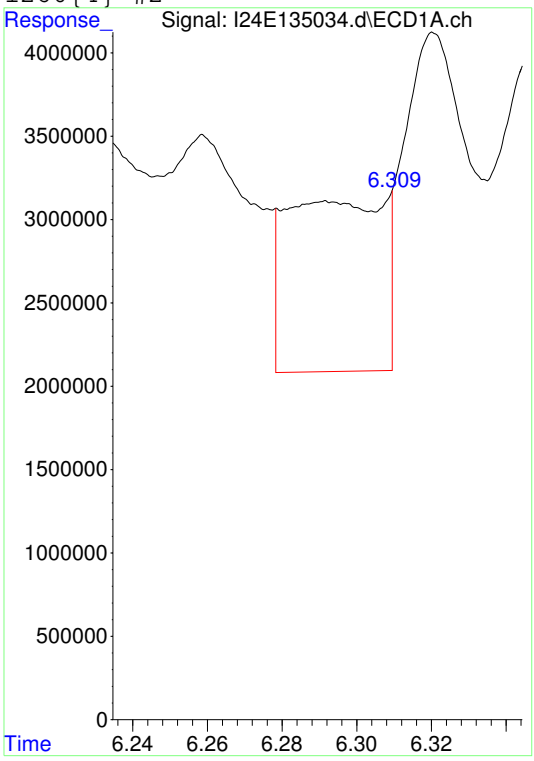
Manual Integration
1260{3} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135034.d
Acq On : 14 May 2024 7:13 pm
Operator : PJG
Sample : 24E1437-02@4X TBA
Misc :

Quant Time : Wed May 15 08:22:55 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1260{4} #2



Original Int. Results

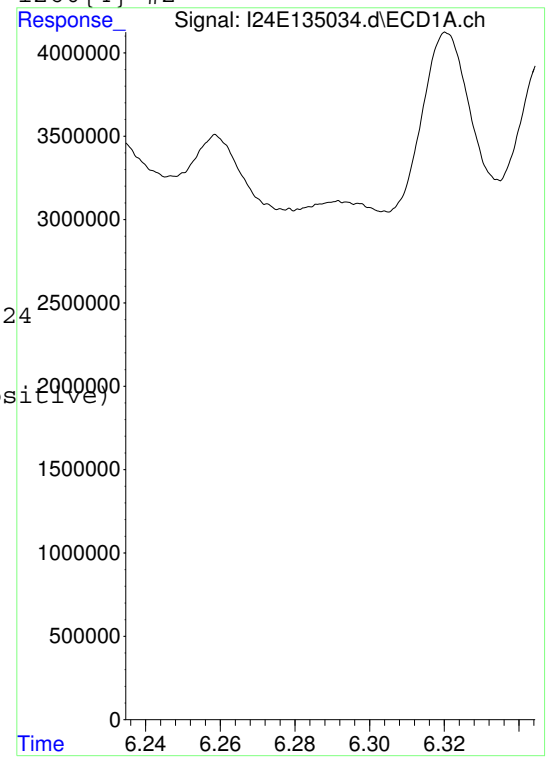
RT : 6.29
Area : 1.08636e+007
Amount: 3.18278

Manual Int. Results

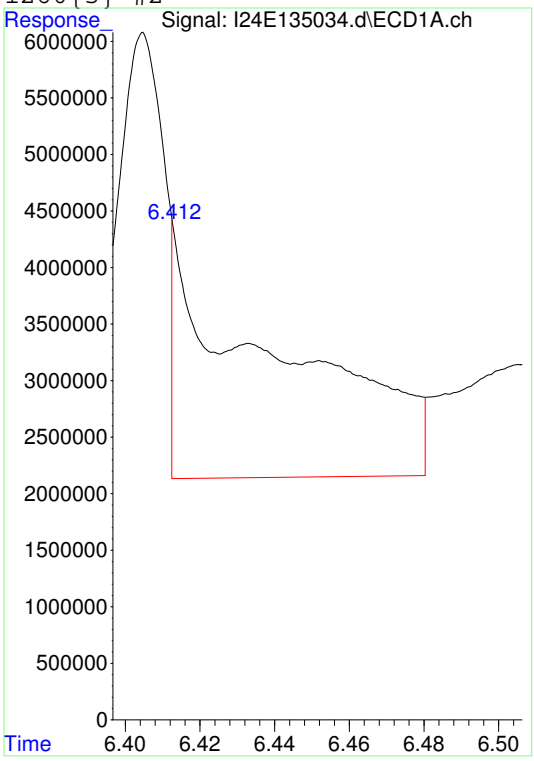
Wed May 15 08:22:34 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1260{4} #2



Original Integration
1260{5} #2



Original Int. Results

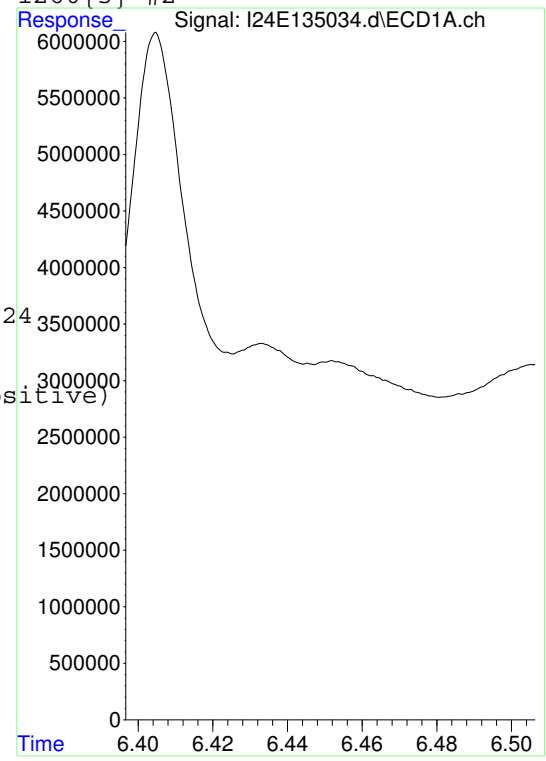
RT : 6.45
Area : 2.9326e+007
Amount: 4.06722

Manual Int. Results

Wed May 15 08:22:34 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

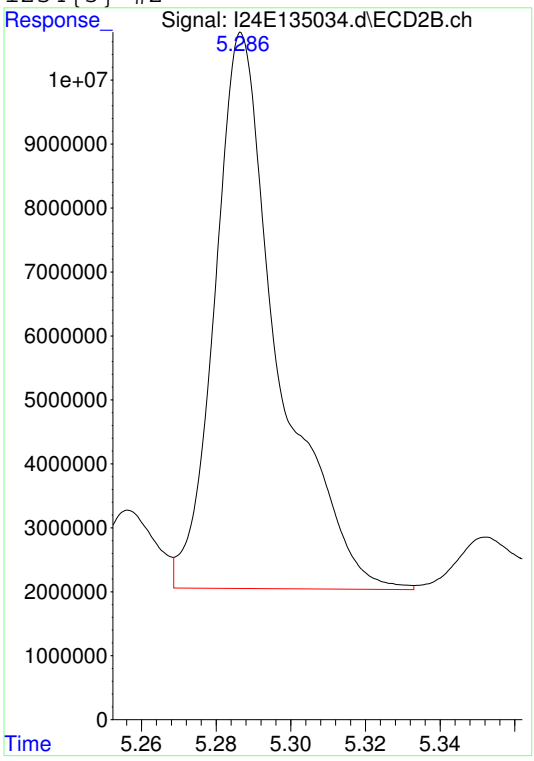
Manual Integration
1260{5} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135034.d
Acq On : 14 May 2024 7:13 pm
Operator : PJG
Sample : 24E1437-02@4X TBA
Misc :

Quant Time : Wed May 15 08:22:55 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1254{3} #2



Original Int. Results

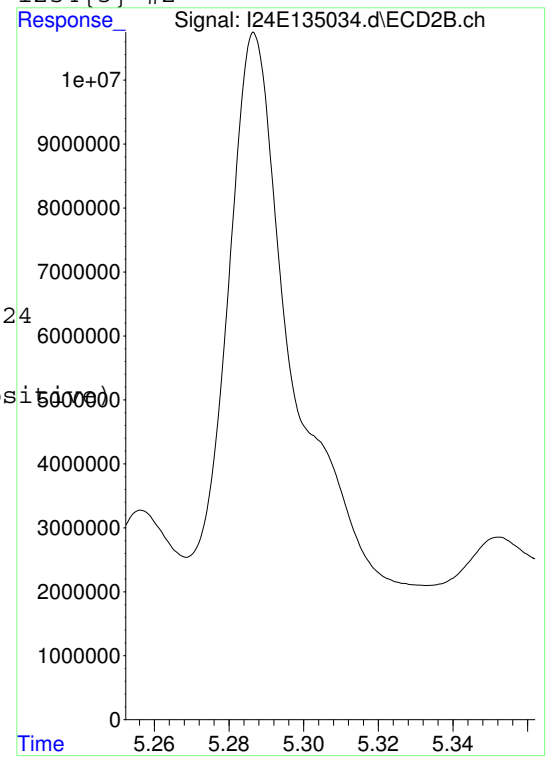
RT : 5.29
Area : 1.03024e+008
Amount: 42.1241

Manual Int. Results

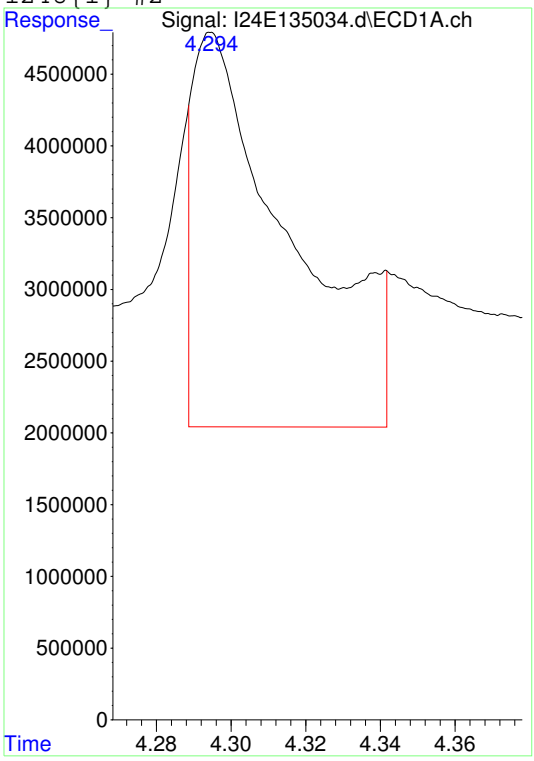
Wed May 15 08:22:53 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1254{3} #2



Original Integration
1248{1} #2



Original Int. Results

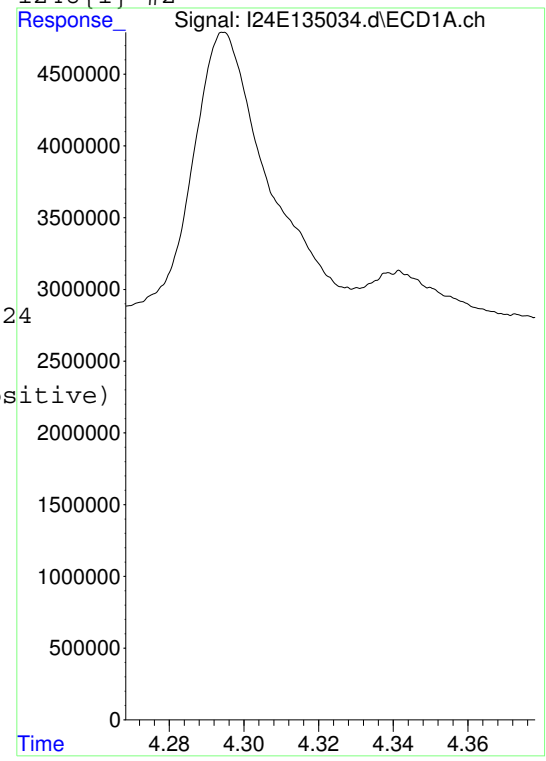
RT : 4.32
Area : 1.32559e+007
Amount: 8.38965

Manual Int. Results

Wed May 15 08:22:34 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

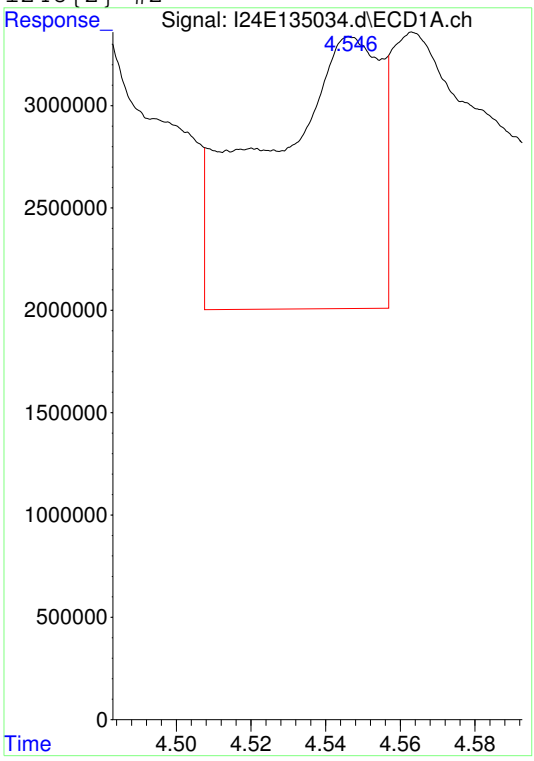
Manual Integration
1248{1} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135034.d
Acq On : 14 May 2024 7:13 pm
Operator : PJG
Sample : 24E1437-02@4X TBA
Misc :

Quant Time : Wed May 15 08:22:55 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1248{2} #2



Original Int. Results

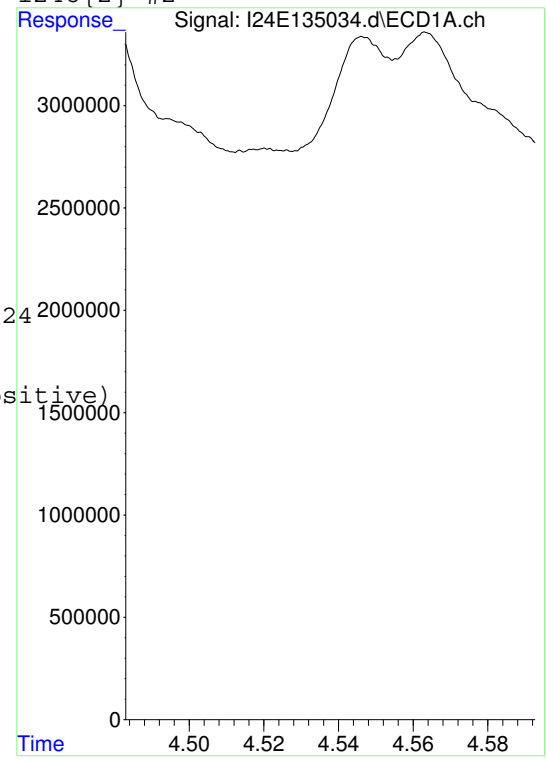
RT : 4.54
Area : 1.07263e+007
Amount: 5.27543

Manual Int. Results

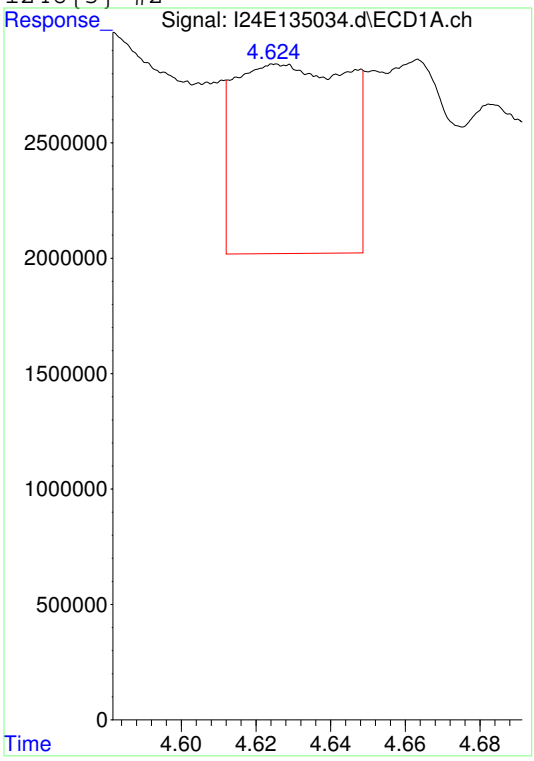
Wed May 15 08:22:34 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1248{2} #2



Original Integration
1248{3} #2



Original Int. Results

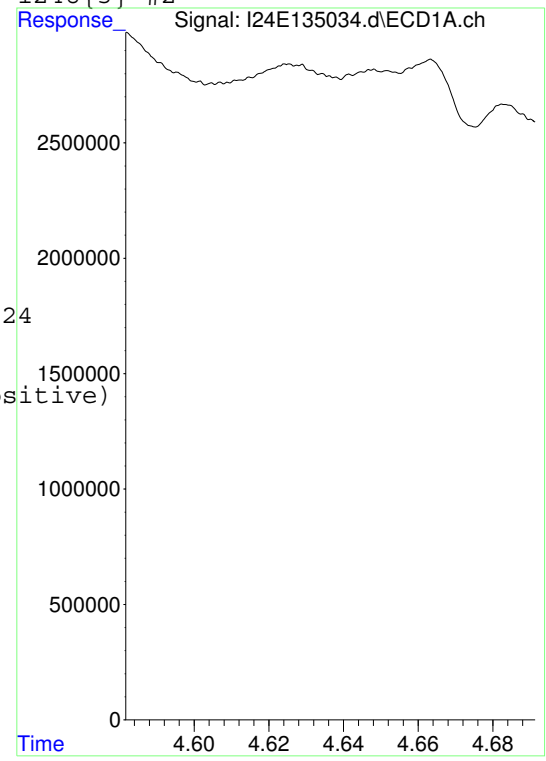
RT : 4.63
Area : 5.41211e+006
Amount: 2.35251

Manual Int. Results

Wed May 15 08:22:34 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

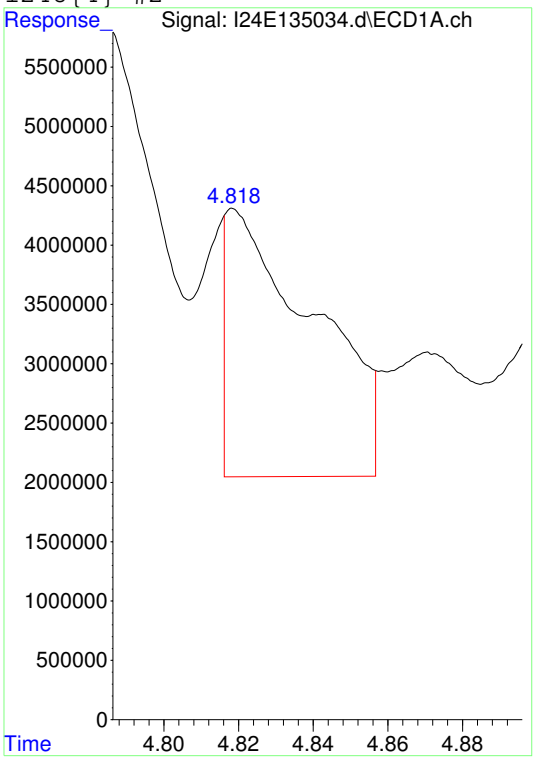
Manual Integration
1248{3} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135034.d
Acq On : 14 May 2024 7:13 pm
Operator : PJG
Sample : 24E1437-02@4X TBA
Misc :

Quant Time : Wed May 15 08:22:55 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1248{4} #2



Original Int. Results

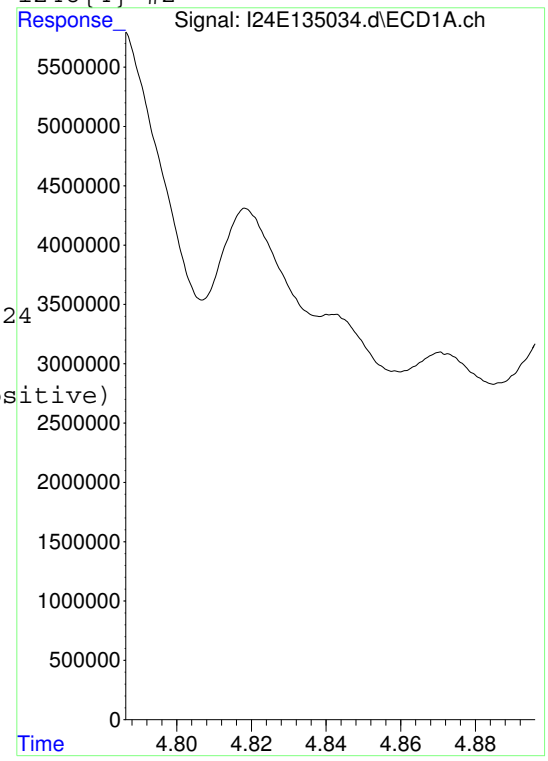
RT : 4.84
Area : 1.68428e+007
Amount: 7.01836

Manual Int. Results

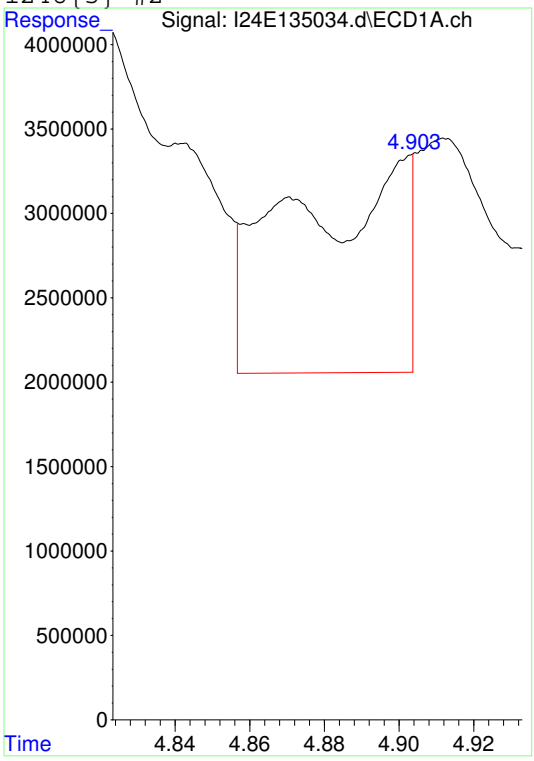
Wed May 15 08:22:33 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1248{4} #2



Original Integration
1248{5} #2



Original Int. Results

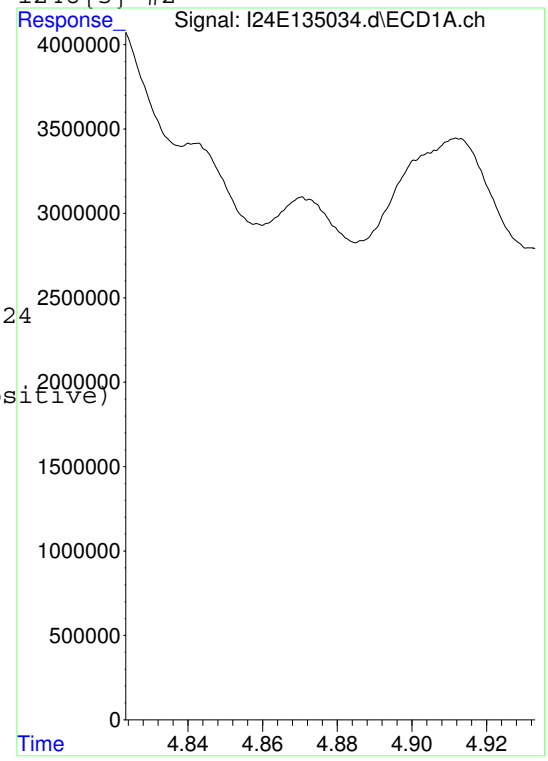
RT : 4.87
Area : 2.26289e+007
Amount: 8.10652

Manual Int. Results

Wed May 15 08:22:33 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

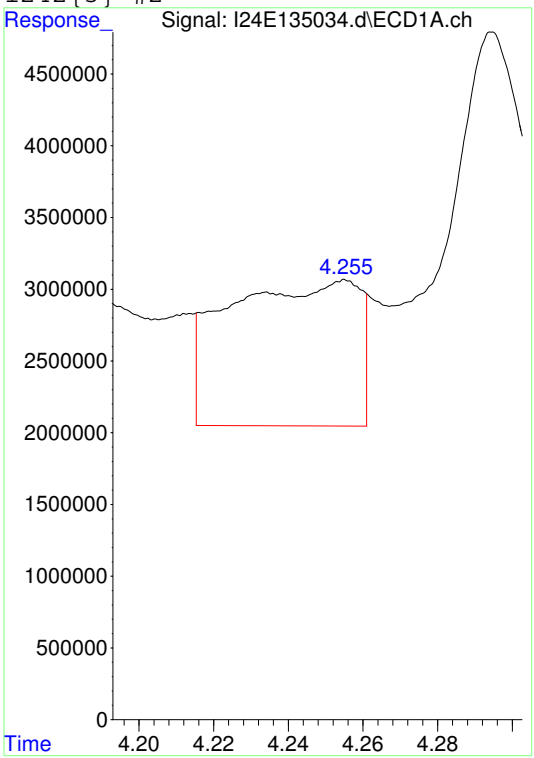
Manual Integration
1248{5} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135034.d
Acq On : 14 May 2024 7:13 pm
Operator : PJG
Sample : 24E1437-02@4X TBA
Misc :

Quant Time : Wed May 15 08:22:55 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1242{3} #2



Original Int. Results

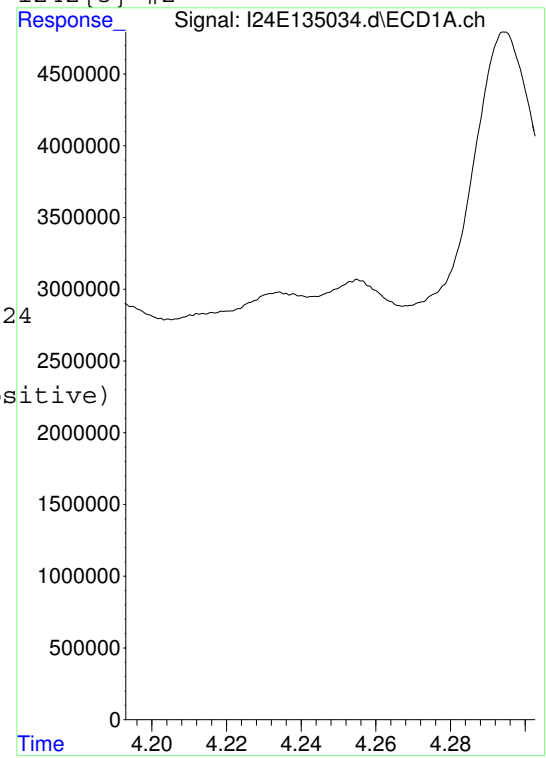
RT : 4.23
Area : 9.0021e+006
Amount: 9.95842

Manual Int. Results

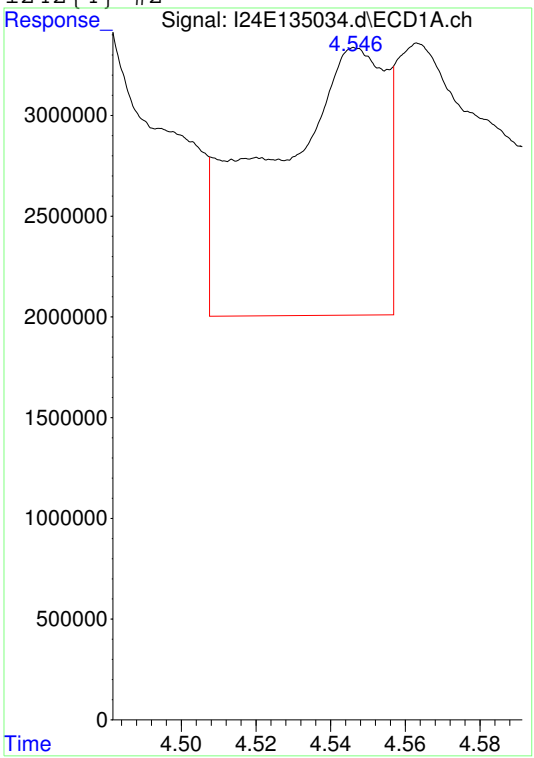
Wed May 15 08:22:33 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1242{3} #2



Original Integration
1242{4} #2



Original Int. Results

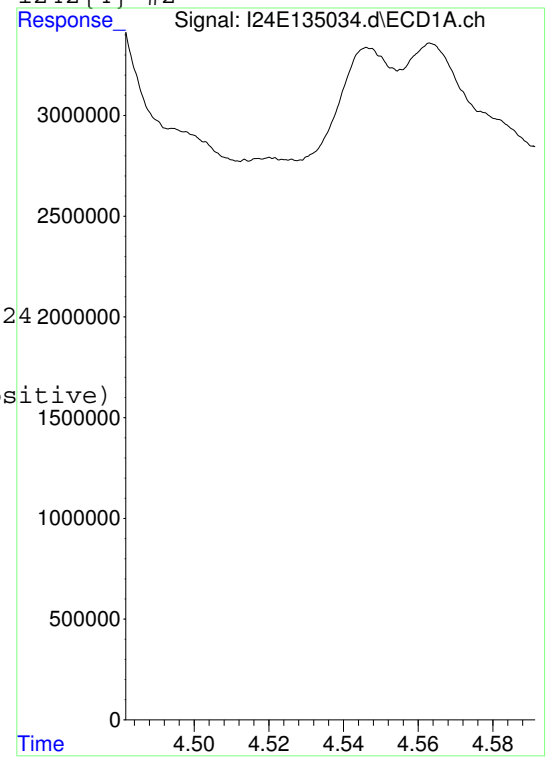
RT : 4.54
Area : 1.07263e+007
Amount: 8.56863

Manual Int. Results

Wed May 15 08:22:32 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

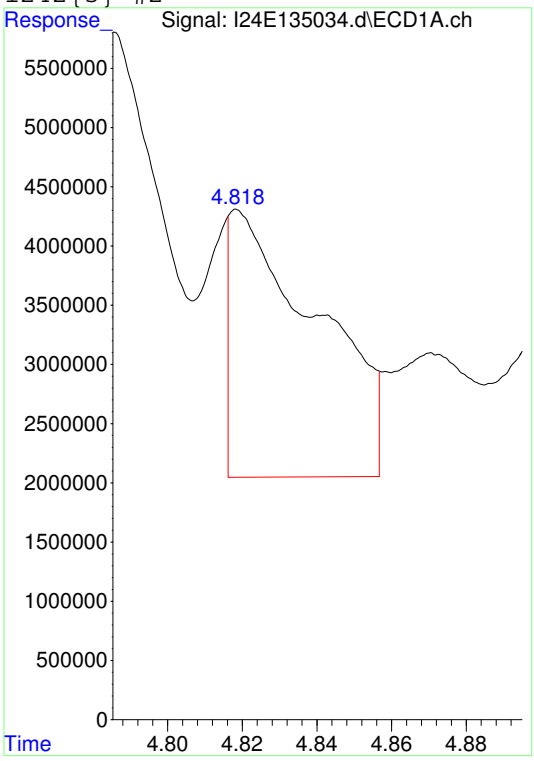
Manual Integration
1242{4} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135034.d
Acq On : 14 May 2024 7:13 pm
Operator : PJG
Sample : 24E1437-02@4X TBA
Misc :

Quant Time : Wed May 15 08:22:55 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1242{5} #2



Original Int. Results

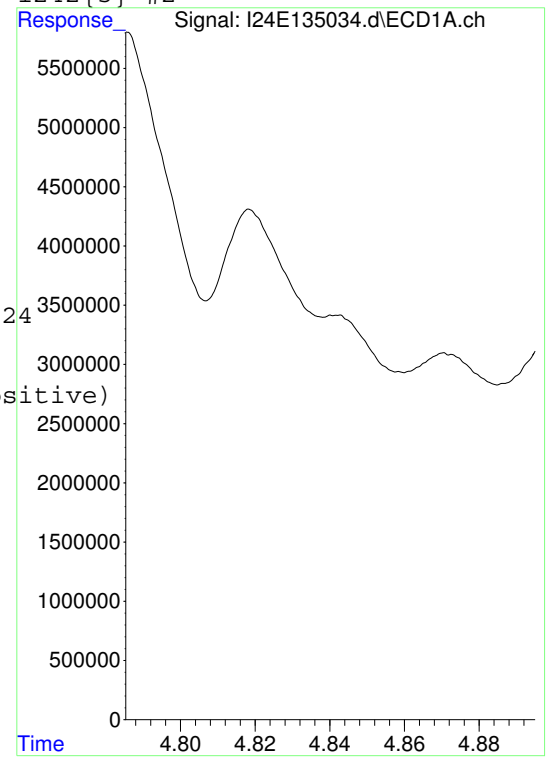
RT : 4.84
Area : 1.68428e+007
Amount: 13.5674

Manual Int. Results

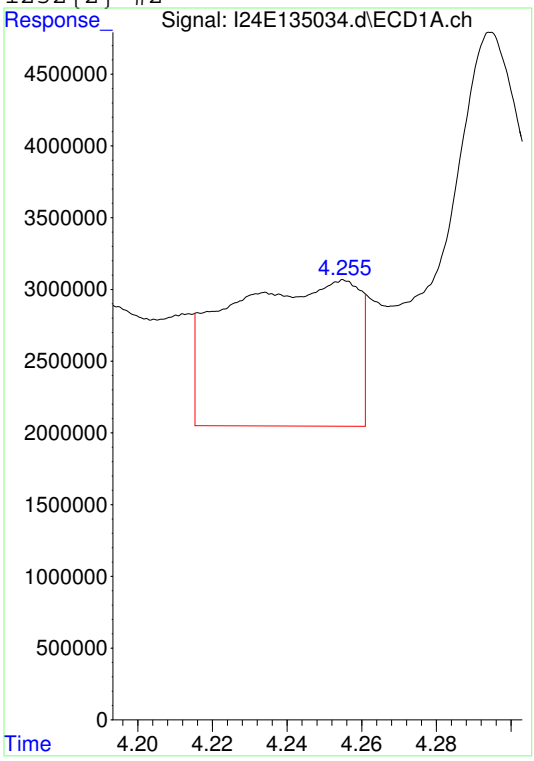
Wed May 15 08:22:32 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1242{5} #2



Original Integration
1232{2} #2



Original Int. Results

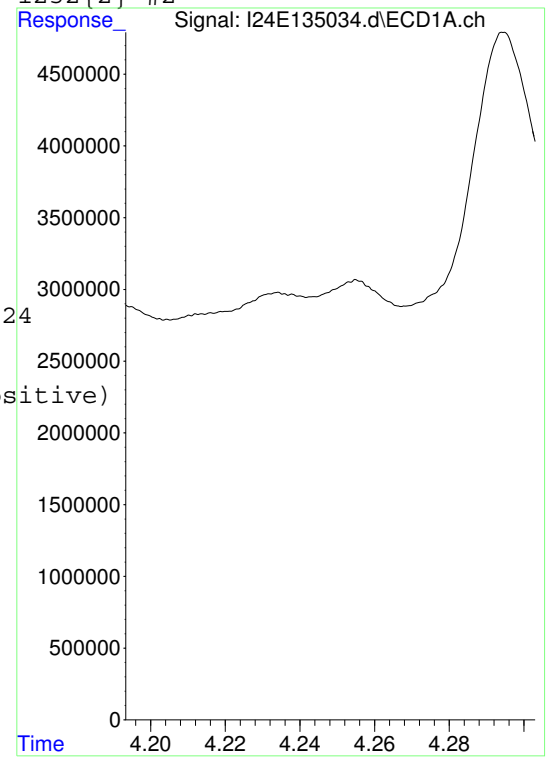
RT : 4.23
Area : 9.0021e+006
Amount: 16.4185

Manual Int. Results

Wed May 15 08:22:32 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

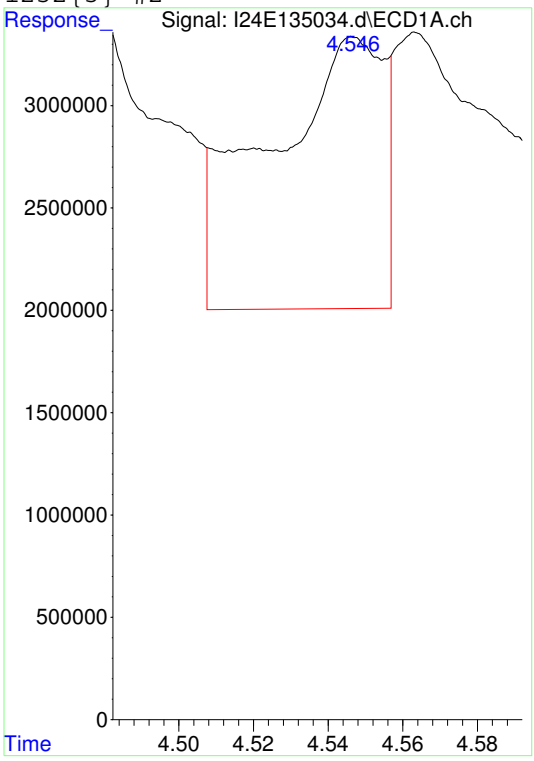
Manual Integration
1232{2} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135034.d
Acq On : 14 May 2024 7:13 pm
Operator : PJG
Sample : 24E1437-02@4X TBA
Misc :

Quant Time : Wed May 15 08:22:55 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1232{3} #2



Original Int. Results

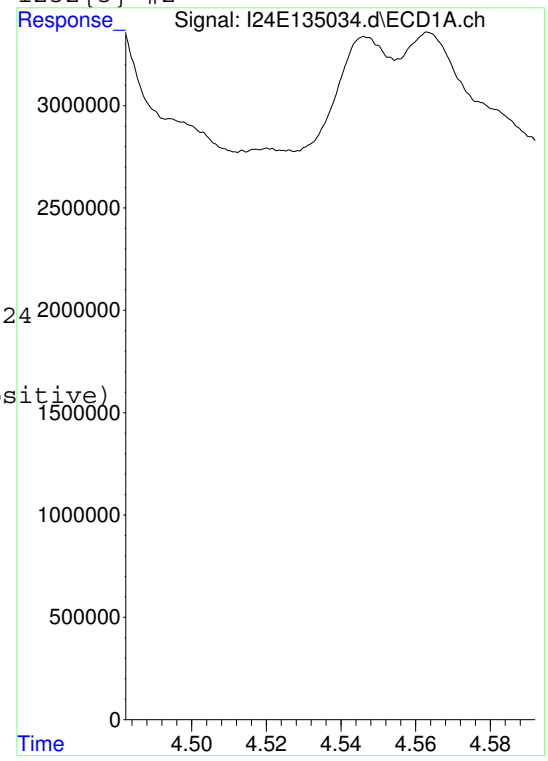
RT : 4.54
Area : 1.07263e+007
Amount: 15.1161

Manual Int. Results

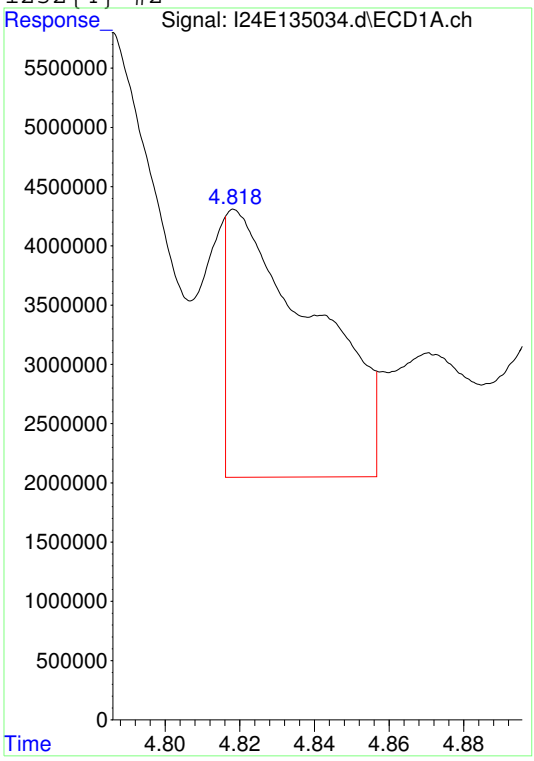
Wed May 15 08:22:32 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1232{3} #2



Original Integration
1232{4} #2



Original Int. Results

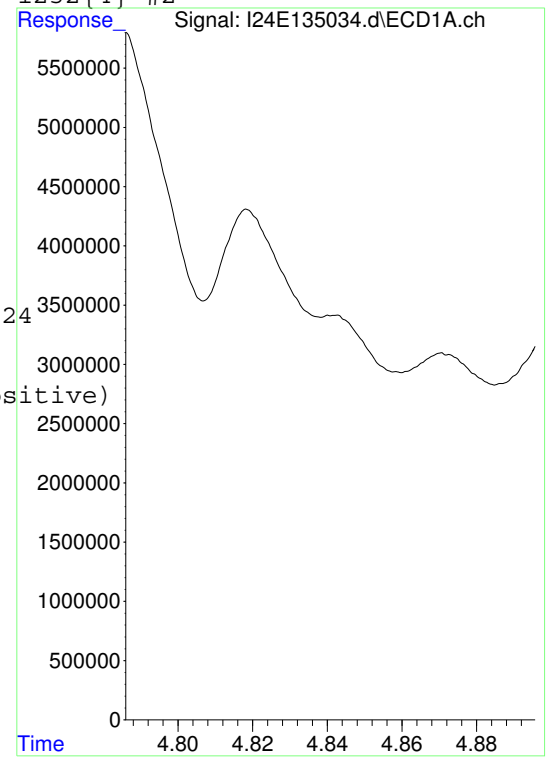
RT : 4.84
Area : 1.68428e+007
Amount: 22.9917

Manual Int. Results

Wed May 15 08:22:31 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

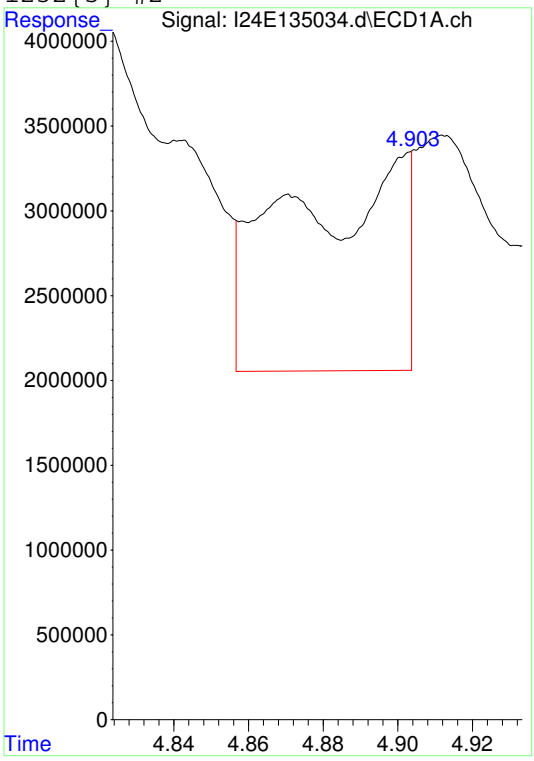
Manual Integration
1232{4} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135034.d
Acq On : 14 May 2024 7:13 pm
Operator : PJG
Sample : 24E1437-02@4X TBA
Misc :

Quant Time : Wed May 15 08:22:55 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1232{5} #2



Original Int. Results

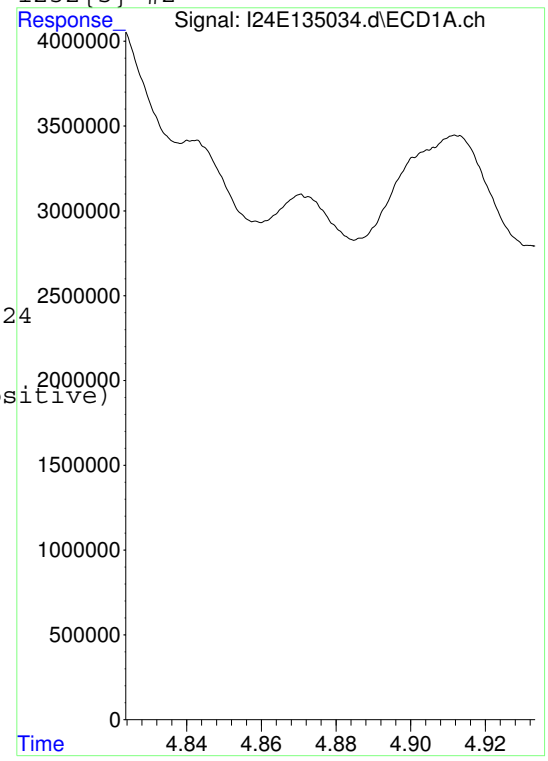
RT : 4.87
Area : 2.26289e+007
Amount: 25.7789

Manual Int. Results

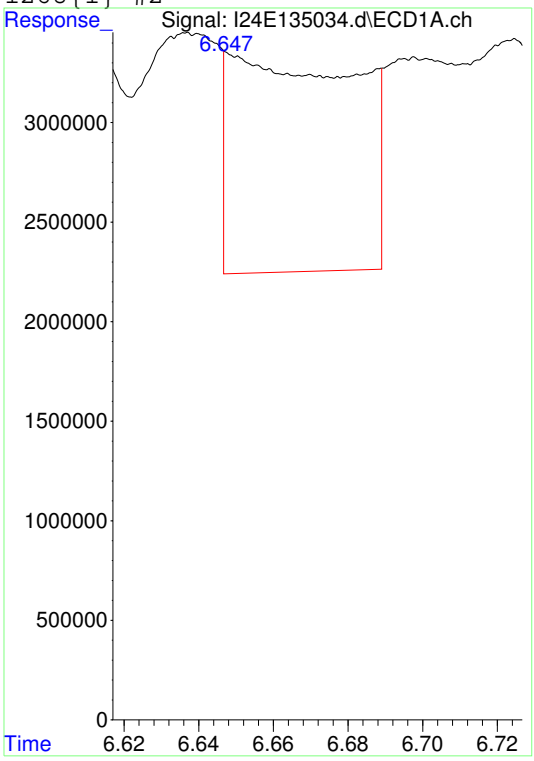
Wed May 15 08:22:31 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1232{5} #2



Original Integration
1268{1} #2



Original Int. Results

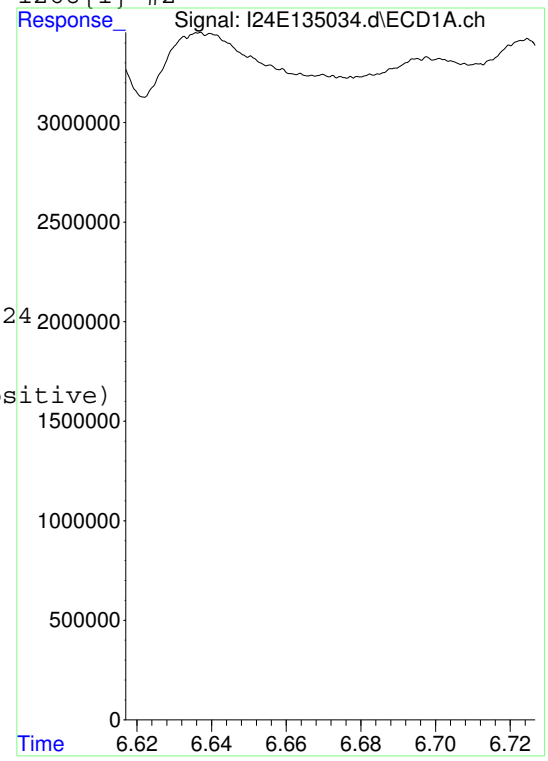
RT : 6.67
Area : 1.81838e+007
Amount: 2.21202

Manual Int. Results

Wed May 15 08:22:31 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

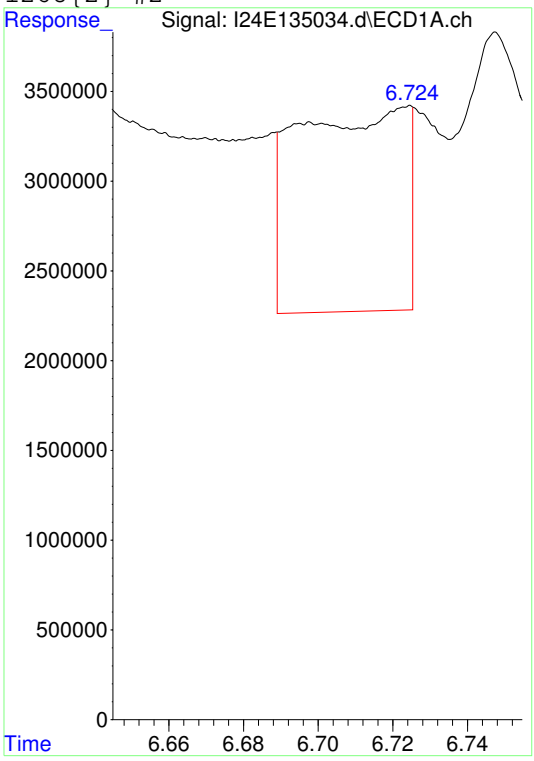
Manual Integration
1268{1} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135034.d
Acq On : 14 May 2024 7:13 pm
Operator : PJG
Sample : 24E1437-02@4X TBA
Misc :

Quant Time : Wed May 15 08:22:55 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1268{2} #2



Original Int. Results

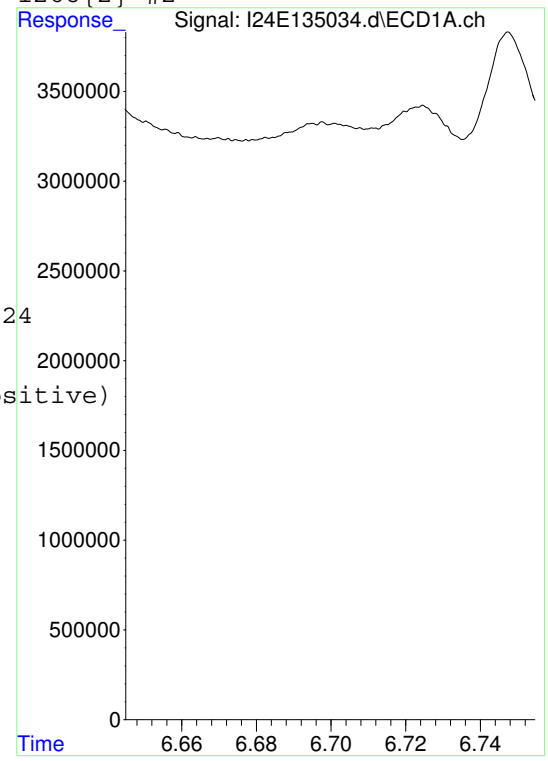
RT : 6.70
Area : 6.27898e+006
Amount: 0.781842

Manual Int. Results

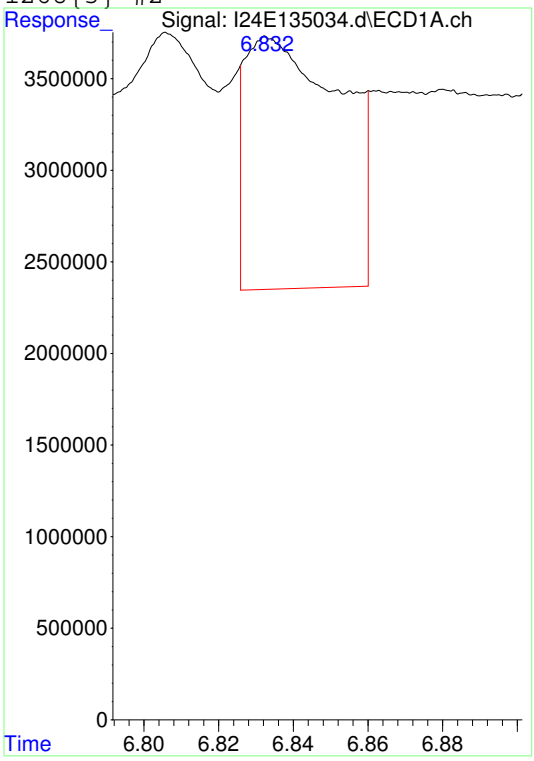
Wed May 15 08:22:31 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1268{2} #2



Original Integration
1268{3} #2



Original Int. Results

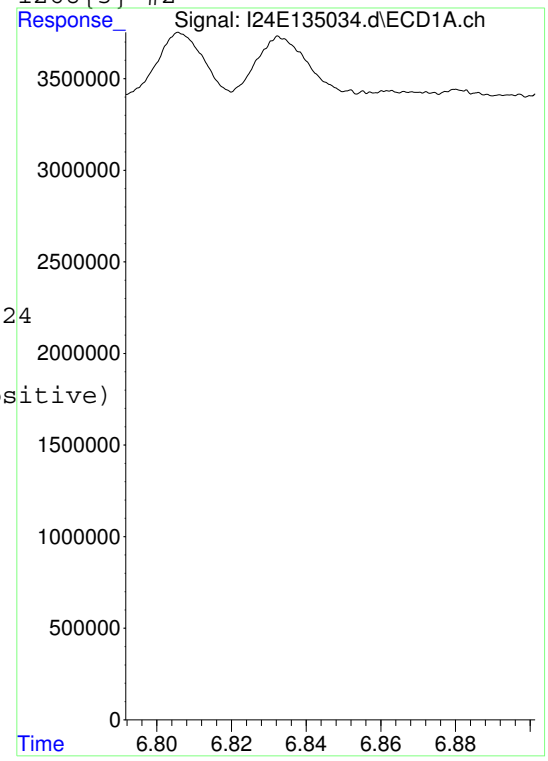
RT : 6.84
Area : 6.7331e+006
Amount: 0.904072

Manual Int. Results

Wed May 15 08:22:30 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

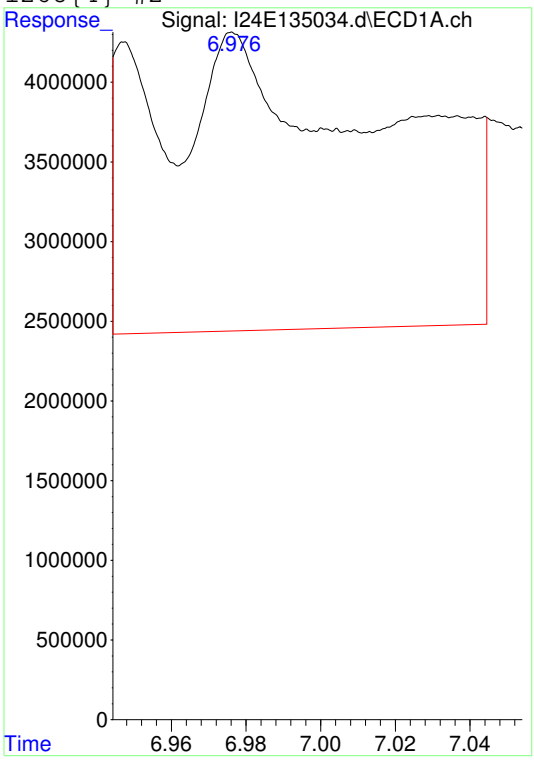
Manual Integration
1268{3} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135034.d
Acq On : 14 May 2024 7:13 pm
Operator : PJG
Sample : 24E1437-02@4X TBA
Misc :

Quant Time : Wed May 15 08:22:55 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1268{4} #2



Original Int. Results

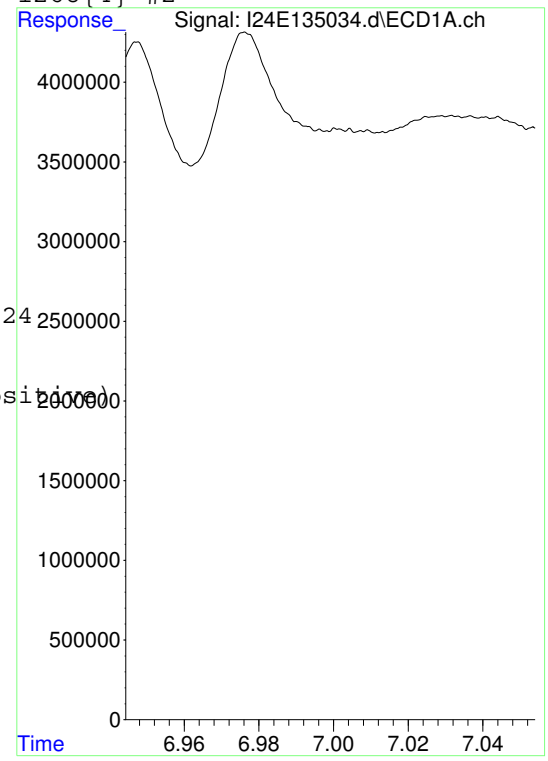
RT : 7.00
Area : 1.54608e+007
Amount: 7.25068

Manual Int. Results

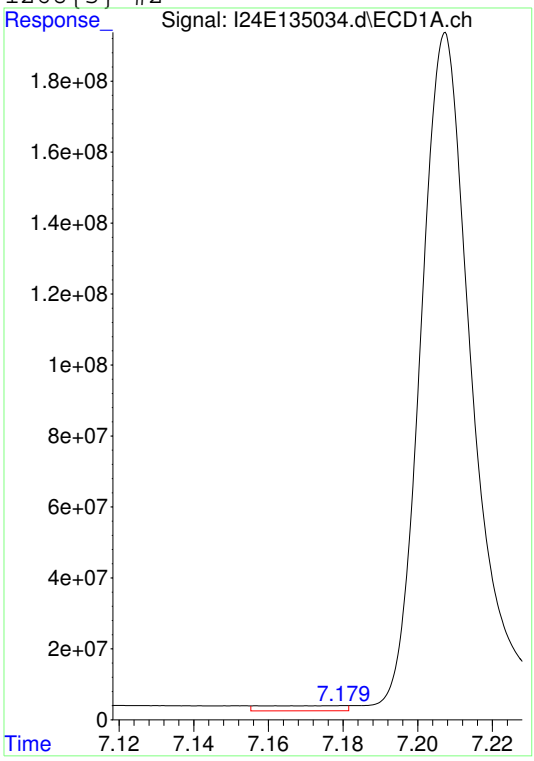
Wed May 15 08:22:30 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1268{4} #2



Original Integration
1268{5} #2



Original Int. Results

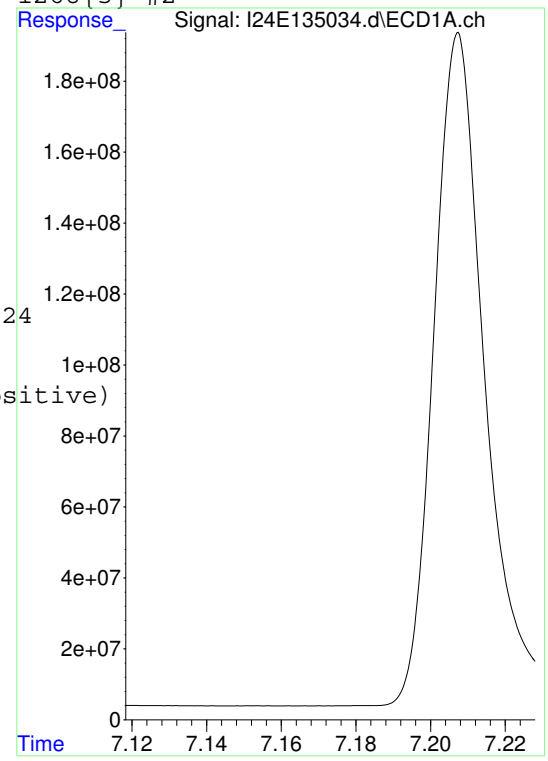
RT : 7.17
Area : 1.55068e+007
Amount: 0.764549

Manual Int. Results

Wed May 15 08:22:30 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

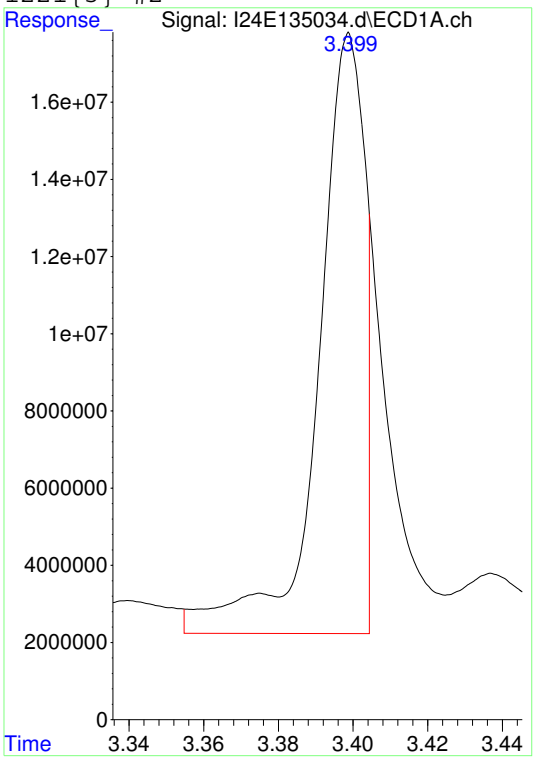
Manual Integration
1268{5} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135034.d
Acq On : 14 May 2024 7:13 pm
Operator : PJG
Sample : 24E1437-02@4X TBA
Misc :

Quant Time : Wed May 15 08:22:55 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1221{3} #2



Original Int. Results

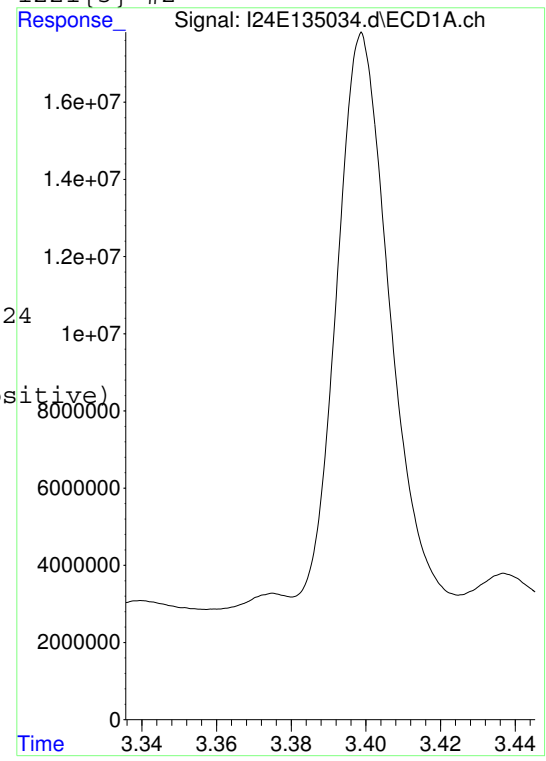
RT : 3.38
Area : 9.76626e+007
Amount: 65.0507

Manual Int. Results

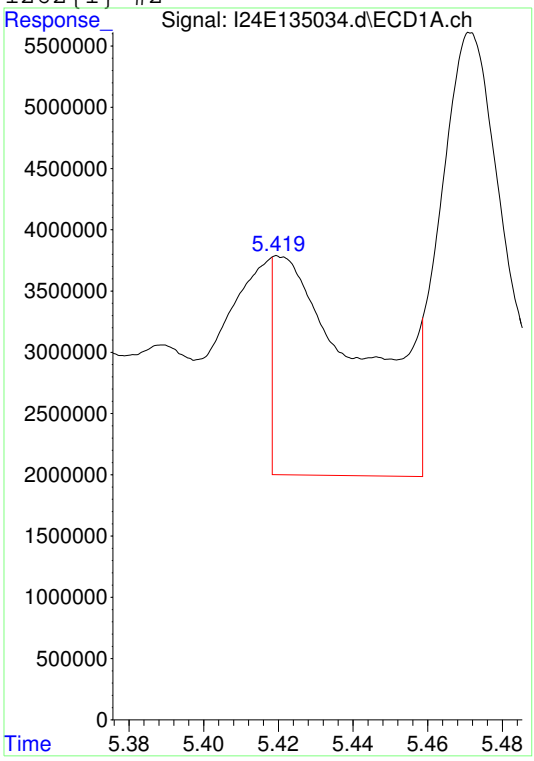
Wed May 15 08:22:29 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1221{3} #2



Original Integration
1262{1} #2



Original Int. Results

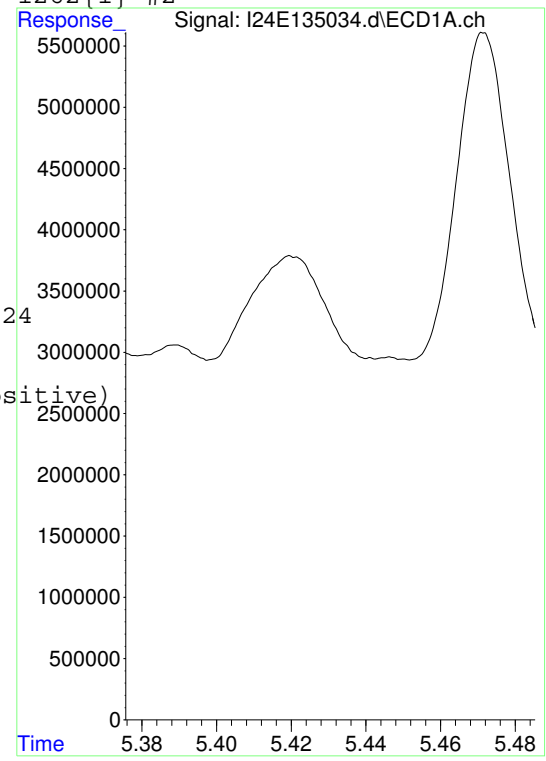
RT : 5.43
Area : 9.64962e+006
Amount: 6.80813

Manual Int. Results

Wed May 15 08:22:29 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

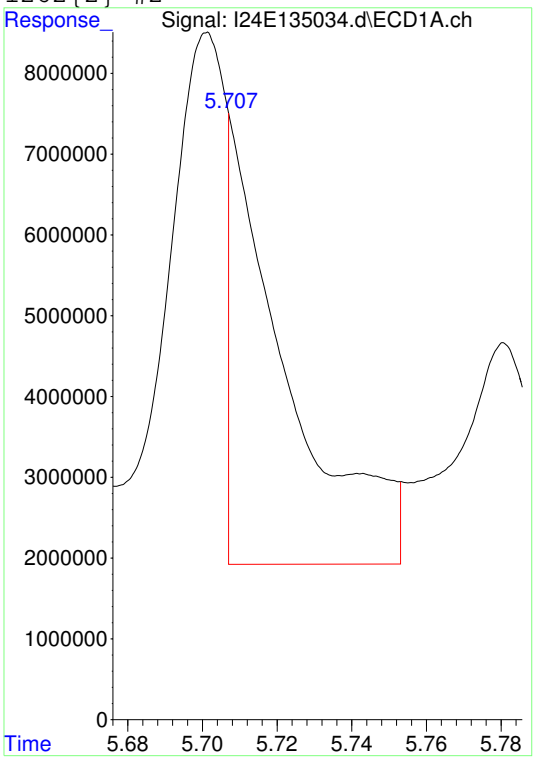
Manual Integration
1262{1} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135034.d
Acq On : 14 May 2024 7:13 pm
Operator : PJG
Sample : 24E1437-02@4X TBA
Misc :

Quant Time : Wed May 15 08:22:55 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1262{2} #2



Original Int. Results

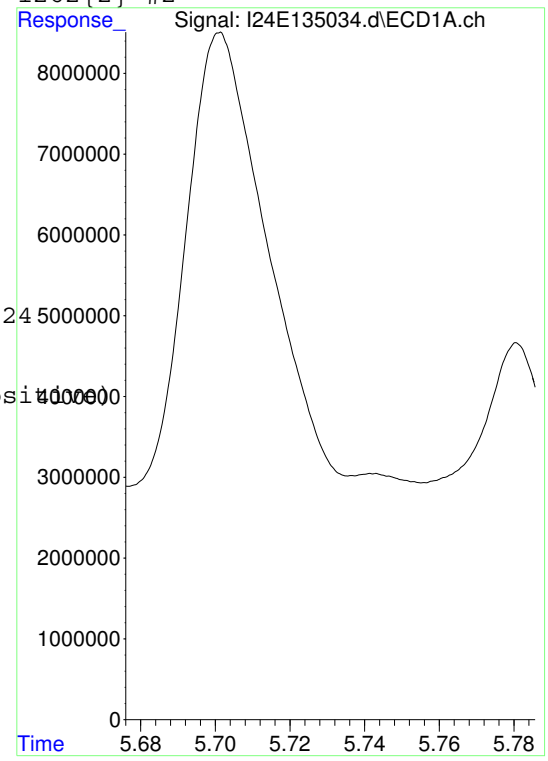
RT : 5.73
Area : 5.05702e+007
Amount: 17.426

Manual Int. Results

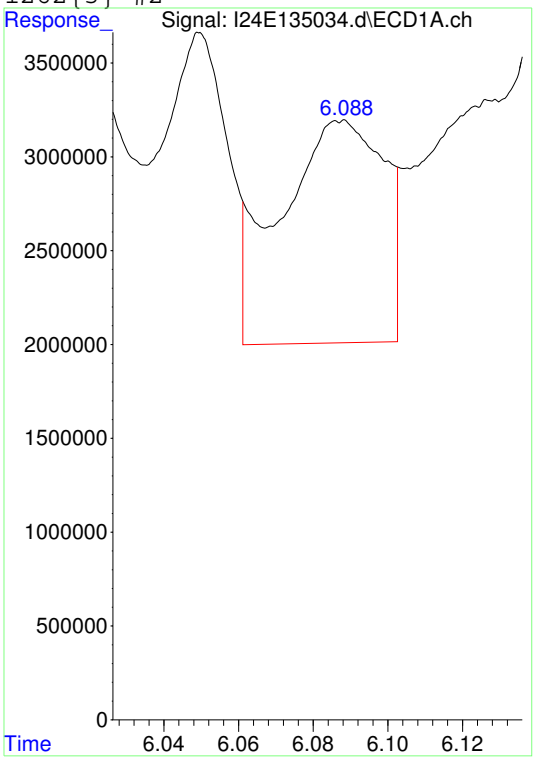
Wed May 15 08:22:29 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1262{2} #2



Original Integration
1262{3} #2



Original Int. Results

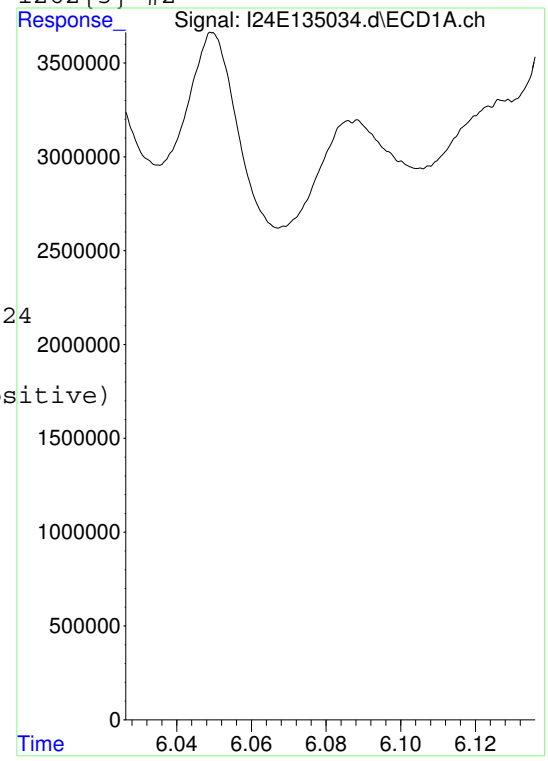
RT : 6.08
Area : 1.64804e+007
Amount: 4.66148

Manual Int. Results

Wed May 15 08:22:29 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

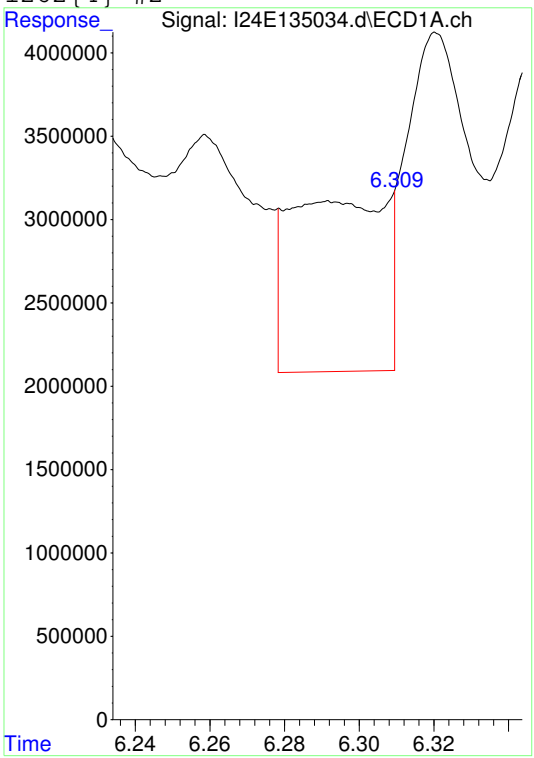
Manual Integration
1262{3} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135034.d
Acq On : 14 May 2024 7:13 pm
Operator : PJG
Sample : 24E1437-02@4X TBA
Misc :

Quant Time : Wed May 15 08:22:55 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1262{4} #2



Original Int. Results

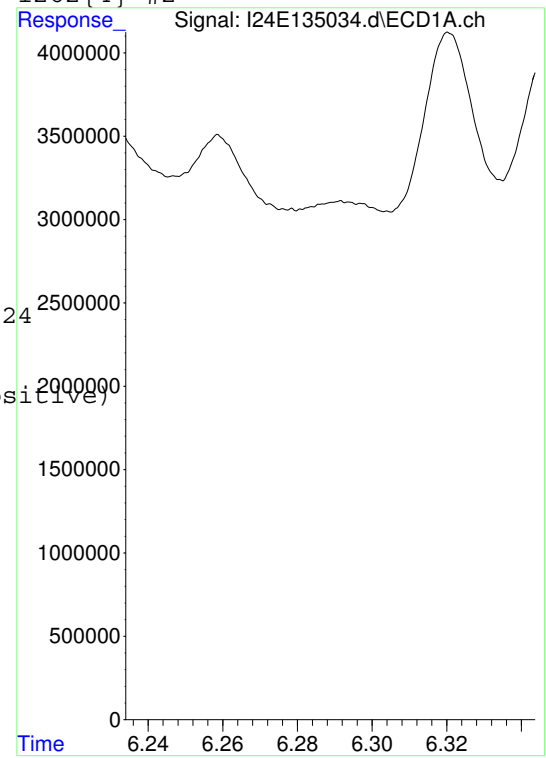
RT : 6.29
Area : 1.08636e+007
Amount: 3.20011

Manual Int. Results

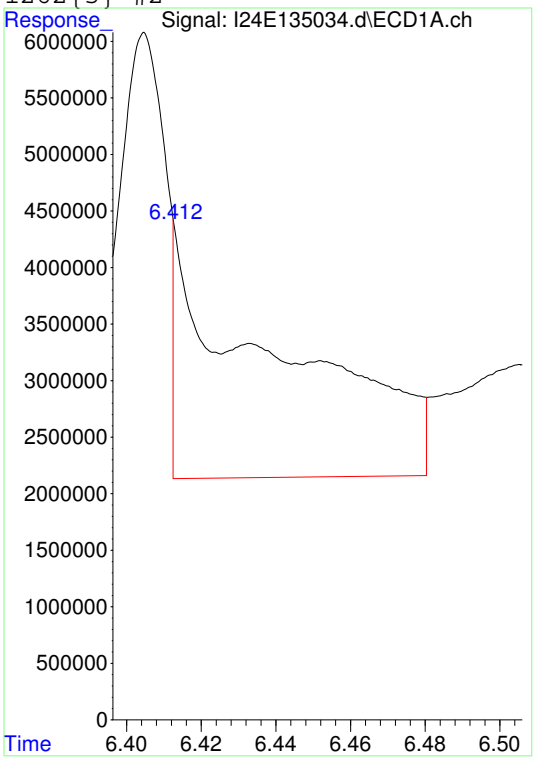
Wed May 15 08:22:29 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1262{4} #2



Original Integration
1262{5} #2



Original Int. Results

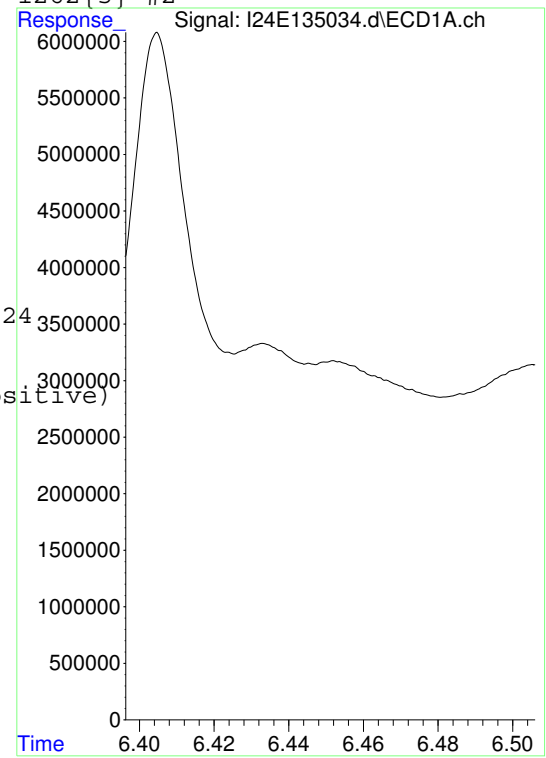
RT : 6.45
Area : 2.9326e+007
Amount: 4.07602

Manual Int. Results

Wed May 15 08:22:28 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1262{5} #2



1 - FORM I
ANALYSIS DATA SHEET

B1A

Laboratory:	Pace New England			SDG:	24E1437
Client:	NYS Division of Environmental Rer			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-04	File ID:	I24E135035.d
Sampled:	05/08/24 13:27	Prepared:	05/10/24 15:04	Analyzed:	05/14/24 19:30
Solids:	85.55	Preparation:	SW-846 3546	Dilution:	4
Batch:	B374045	Sequence:	S104539	Calibration:	2400478
Instrument:	ECD 9				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.022	0.087	
11104-28-2	Aroclor-1221		0.040	0.087	
11141-16-5	Aroclor-1232		0.021	0.087	
53469-21-9	Aroclor-1242		0.024	0.087	
12672-29-6	Aroclor-1248		0.021	0.087	
11097-69-1	Aroclor-1254		0.026	0.087	
11096-82-5	Aroclor-1260		0.018	0.087	
37324-23-5	Aroclor-1262		0.023	0.087	
11100-14-4	Aroclor-1268		0.023	0.087	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

3087

Data Path : C:\msdchem\1\data\051424\
Data File : I24E135035.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 7:30 pm
Operator : PJG
Sample : 24E1437-04@4X TBA Inst : ECD 9
Misc :
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 15 08:24:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	3.071	2.995	3065.6E6	2801.1E6	46.677	48.415
2) S	Decachlor...	7.207	7.313	2376.2E6	2187.0E6	42.809	43.910
	Target Compounds						
3) L1	1016{1}	0.000	0.000	0	0	N.D. d	N.D. d
4) L1	1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1	1016{3}	0.000	0.000	0	0	N.D. d	N.D. d
6) L1	1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1	1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	5.472	5.558	9457990	6989806	2.256	2.025
9) L7	1260{2}	0.000	5.729	0	5992333	N.D. d	1.486 #
10) L7	1260{3}	6.014	6.080	7823437	10480369	1.961	3.466 #
11) L7	1260{4}	6.197	6.287	11390039	5813606	2.826	1.703 #
12) L7	1260{5}	6.405	6.449	15513082	14430130	1.836	2.001
Sum	1260			44184548	43706244	8.880	10.682
Average	1260					2.220	2.136
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\051424\
Data File : I24E135035.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 7:30 pm
Operator : PJG
Sample : 24E1437-04@4X TBA Inst : ECD 9
Misc :
ALS Vial : 35 Sample Multiplier: 1

3088

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 15 08:24:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40)	L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D. d	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

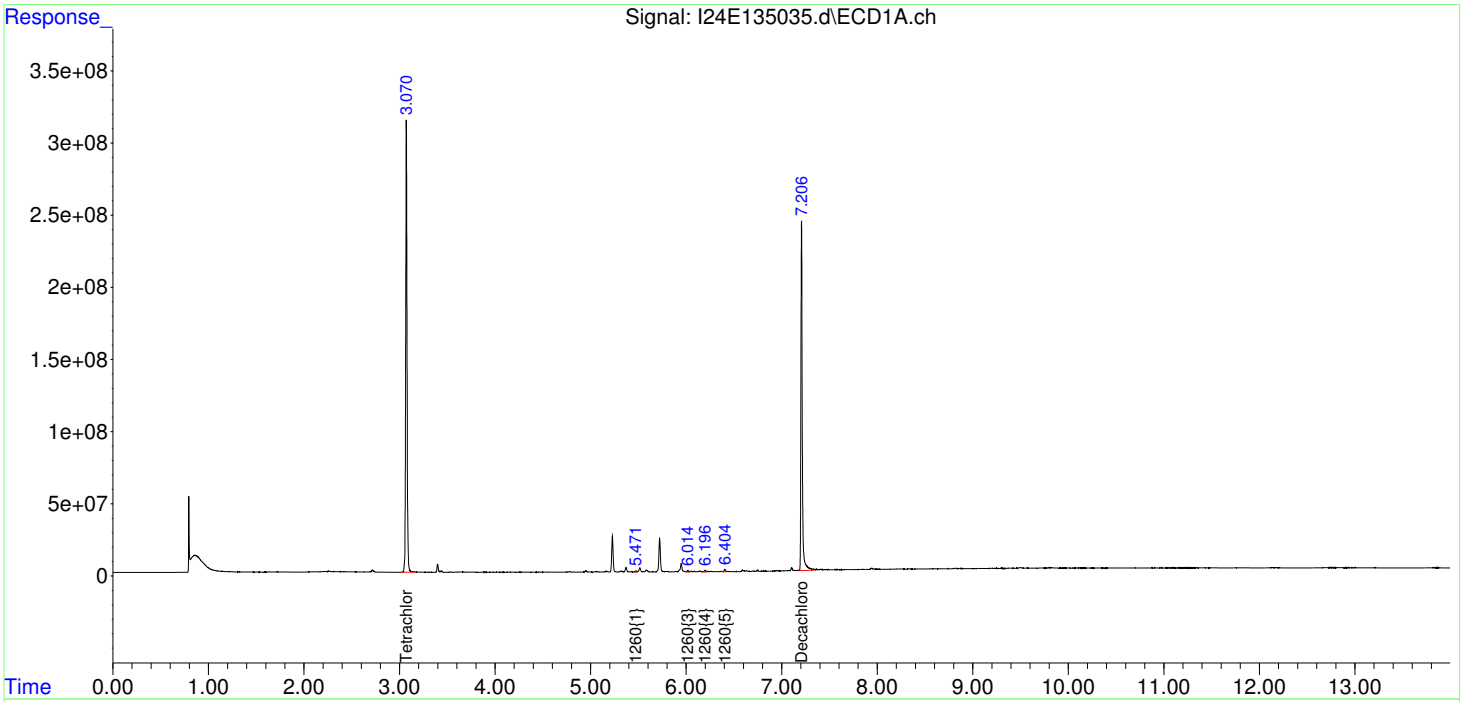
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

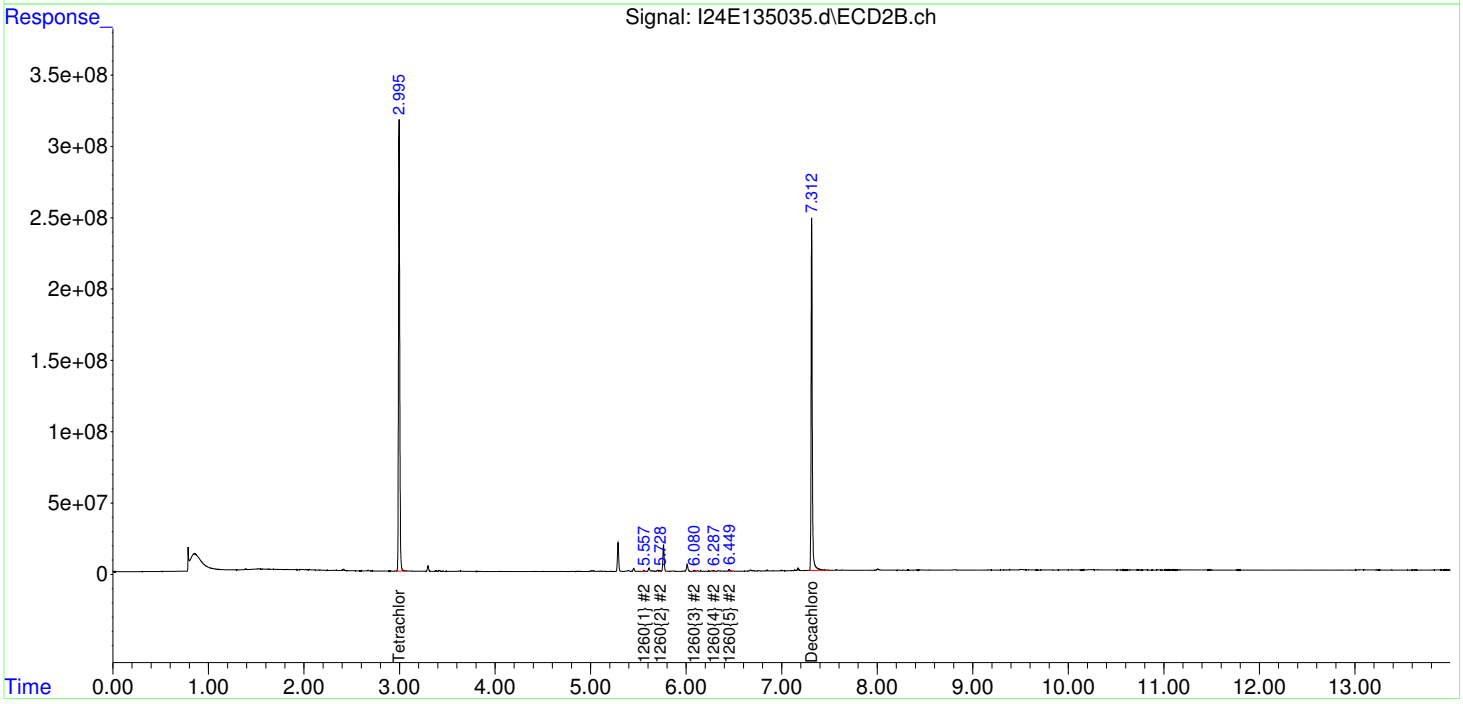
Data Path : C:\msdchem\1\data\051424\
Data File : I24E135035.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 7:30 pm
Operator : PJG
Sample : 24E1437-04@4X TBA Inst : ECD 9
Misc :
ALS Vial : 35 Sample Multiplier: 1

3089

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 15 08:24:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

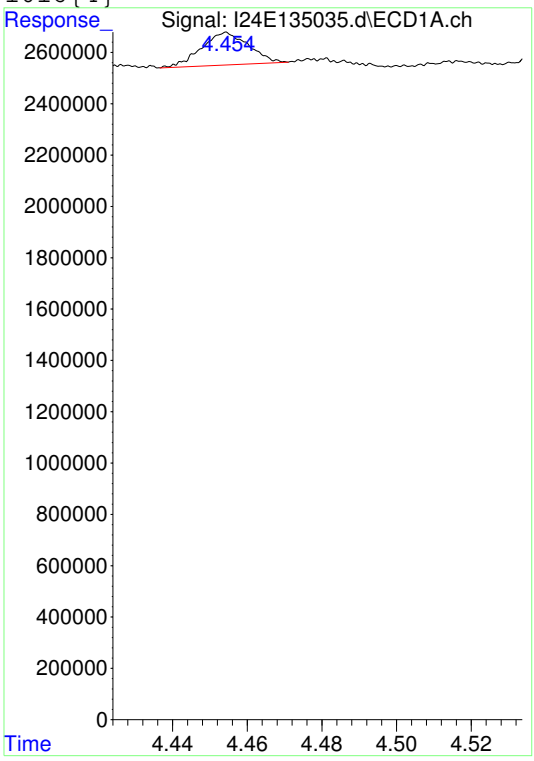




Data Path : C:\msdchem\1\data\051424\
Data File : I24E135035.d
Acq On : 14 May 2024 7:30 pm
Operator : PJG
Sample : 24E1437-04@4X TBA
Misc :

Quant Time : Wed May 15 08:24:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1016{4}



Original Int. Results

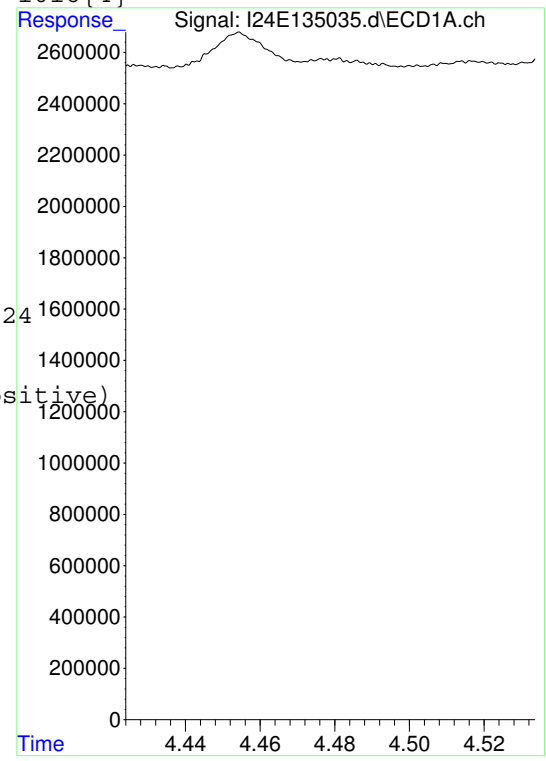
RT : 4.45
Area : 1.09443e+006
Amount: 0.508082

Manual Int. Results

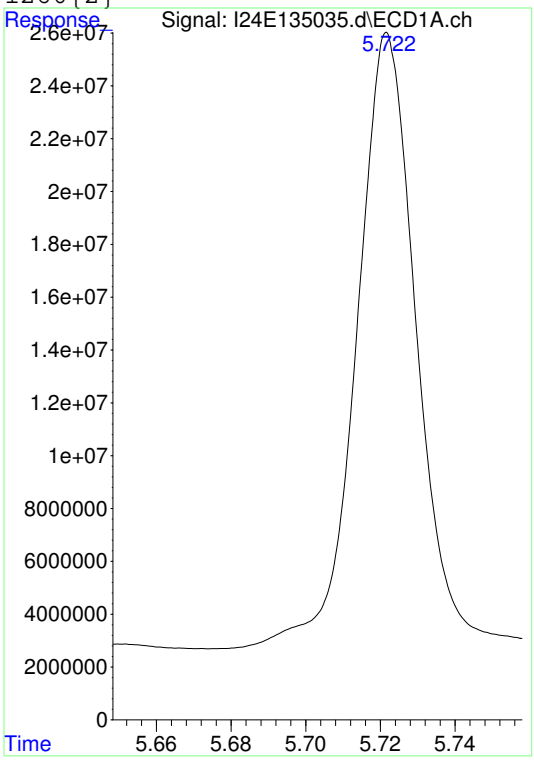
Wed May 15 08:23:59 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1016{4}



Original Integration
1260{2}



Original Int. Results

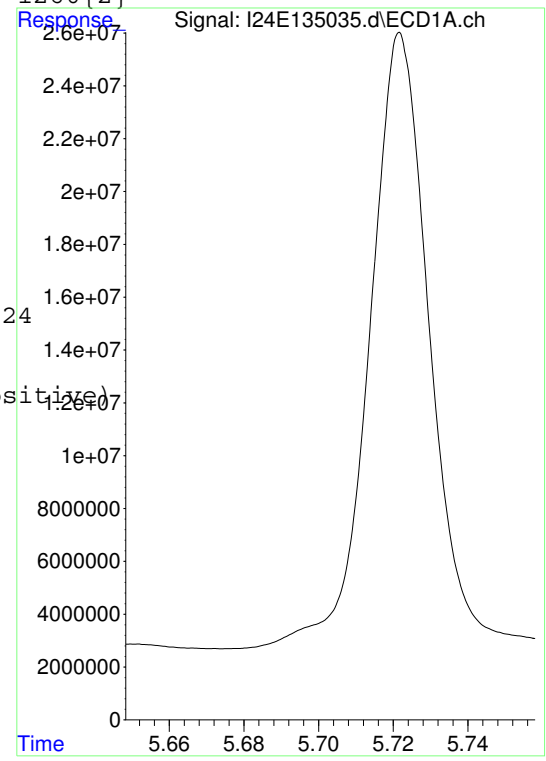
RT : 5.72
Area : 2.62231e+008
Amount: 42.1981

Manual Int. Results

Wed May 15 08:23:43 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

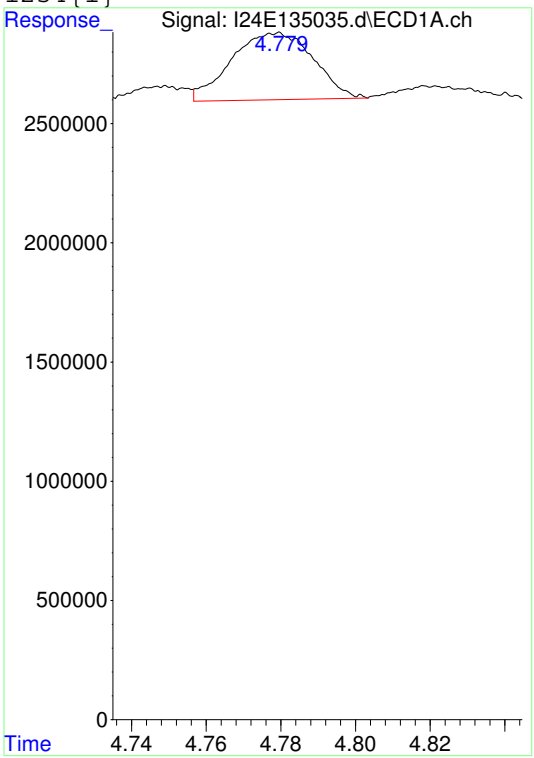
Manual Integration
1260{2}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135035.d
Acq On : 14 May 2024 7:30 pm
Operator : PJG
Sample : 24E1437-04@4X TBA
Misc :

Quant Time : Wed May 15 08:24:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1254{1}



Original Int. Results

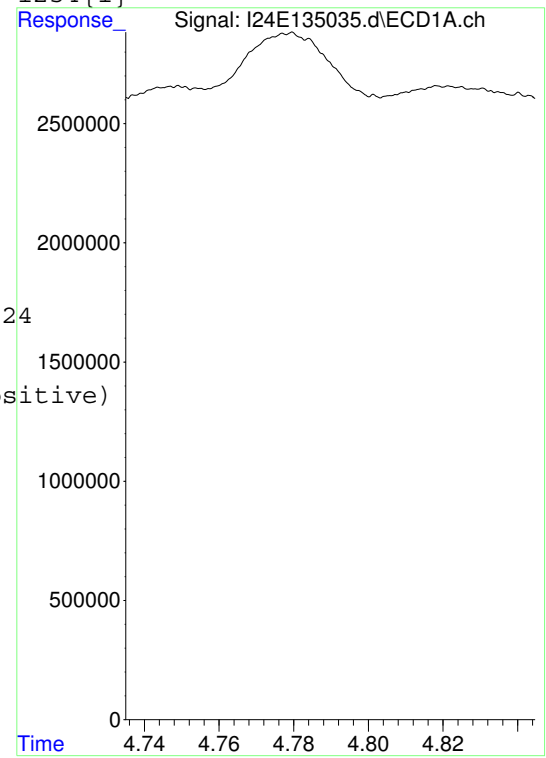
RT : 4.78
Area : 4.26737e+006
Amount: 1.42472

Manual Int. Results

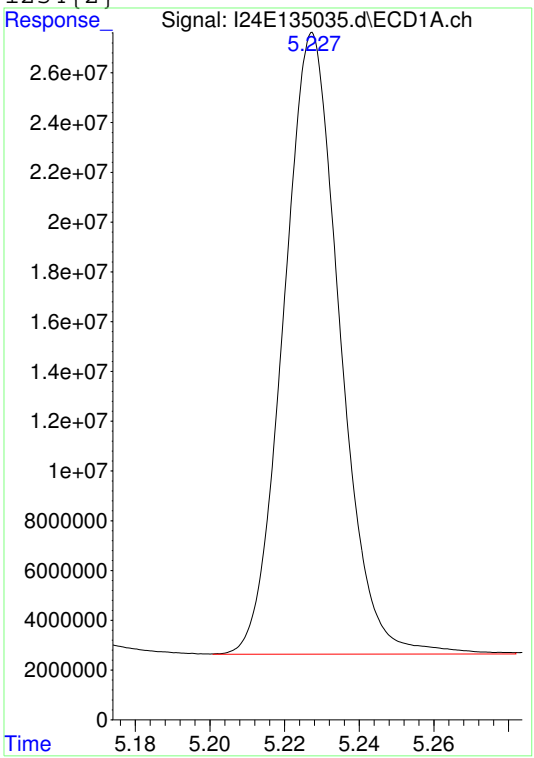
Wed May 15 08:23:59 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1254{1}



Original Integration
1254{2}



Original Int. Results

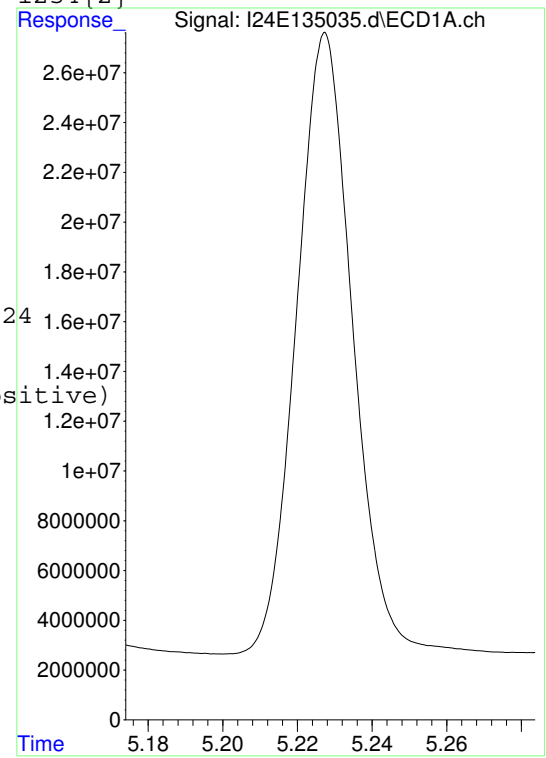
RT : 5.23
Area : 2.61543e+008
Amount: 79.7734

Manual Int. Results

Wed May 15 08:23:59 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

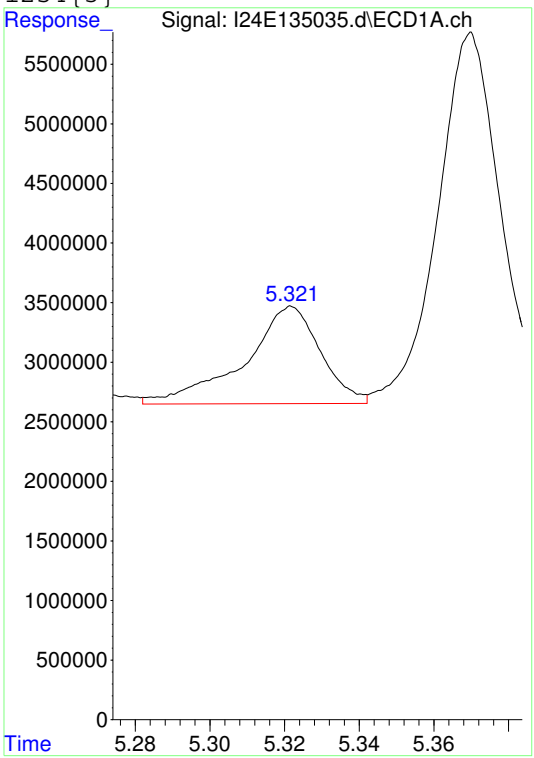
Manual Integration
1254{2}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135035.d
Acq On : 14 May 2024 7:30 pm
Operator : PJG
Sample : 24E1437-04@4X TBA
Misc :

Quant Time : Wed May 15 08:24:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1254{3}



Original Int. Results

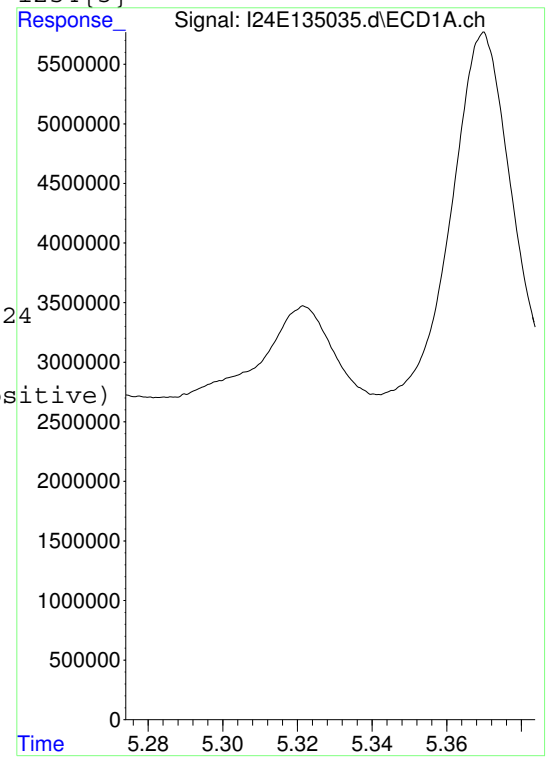
RT : 5.32
Area : 1.15292e+007
Amount: 2.14924

Manual Int. Results

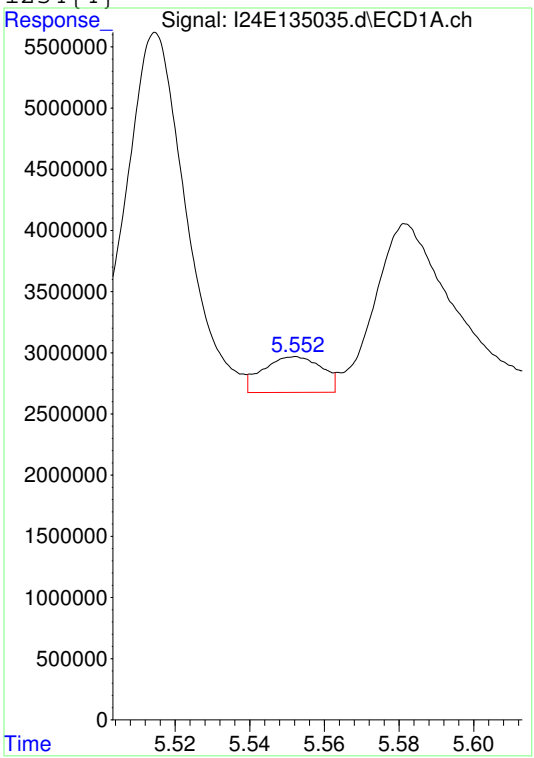
Wed May 15 08:23:58 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1254{3}



Original Integration
1254{4}



Original Int. Results

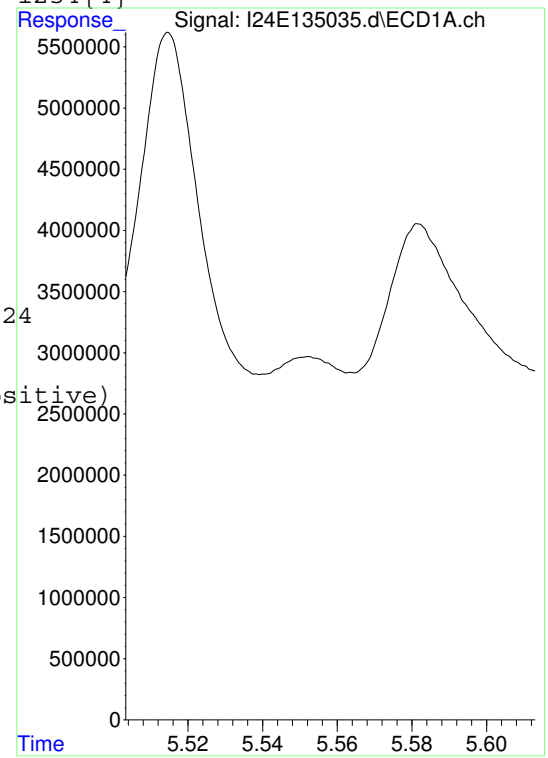
RT : 5.55
Area : 3.17686e+006
Amount: 0.765046

Manual Int. Results

Wed May 15 08:23:58 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

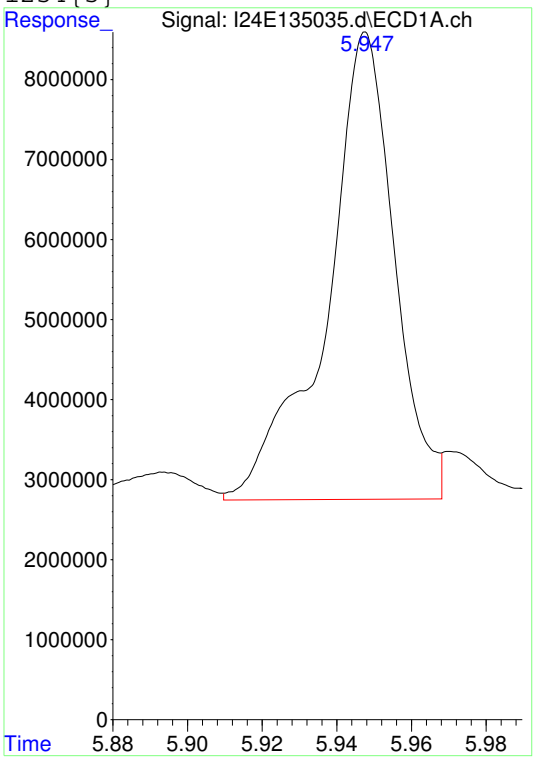
Manual Integration
1254{4}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135035.d
Acq On : 14 May 2024 7:30 pm
Operator : PJG
Sample : 24E1437-04@4X TBA
Misc :

Quant Time : Wed May 15 08:24:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1254{5}



Original Int. Results

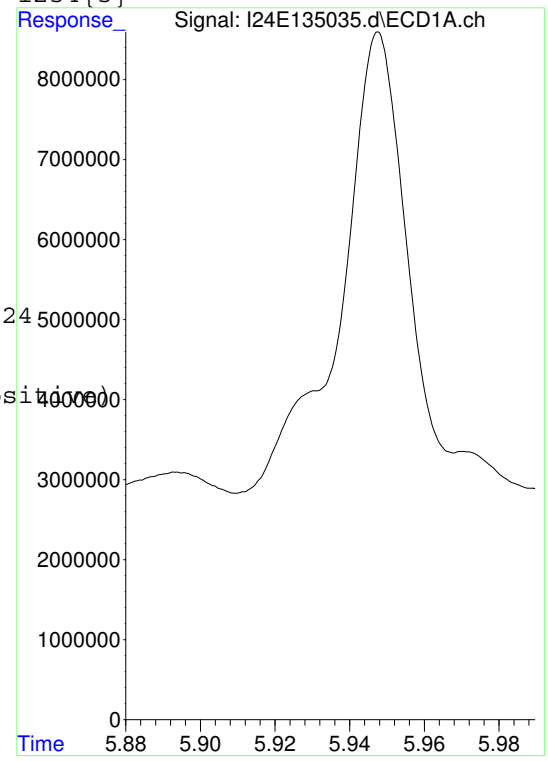
RT : 5.95
Area : 7.358e+007
Amount: 13.2965

Manual Int. Results

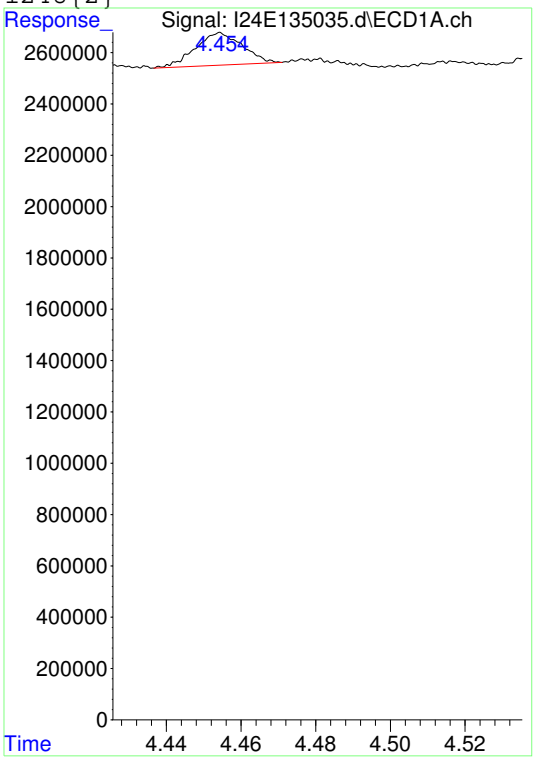
Wed May 15 08:23:58 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1254{5}



Original Integration
1248{2}



Original Int. Results

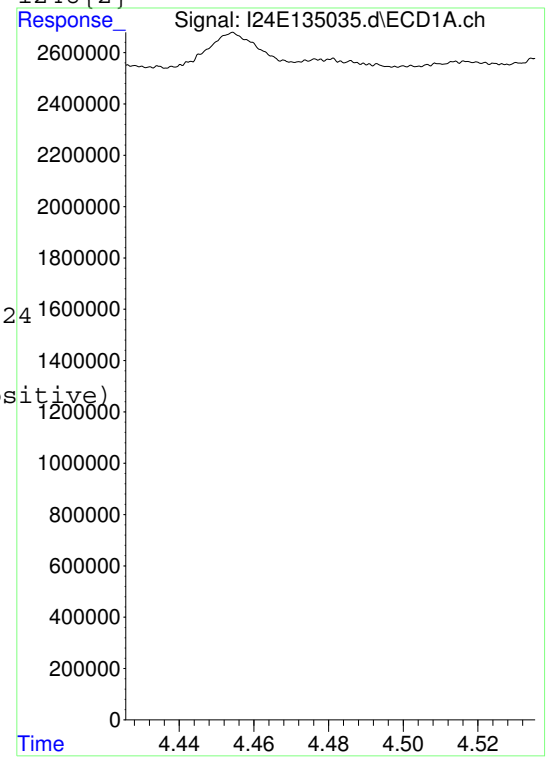
RT : 4.45
Area : 1.09443e+006
Amount: 0.427104

Manual Int. Results

Wed May 15 08:23:58 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

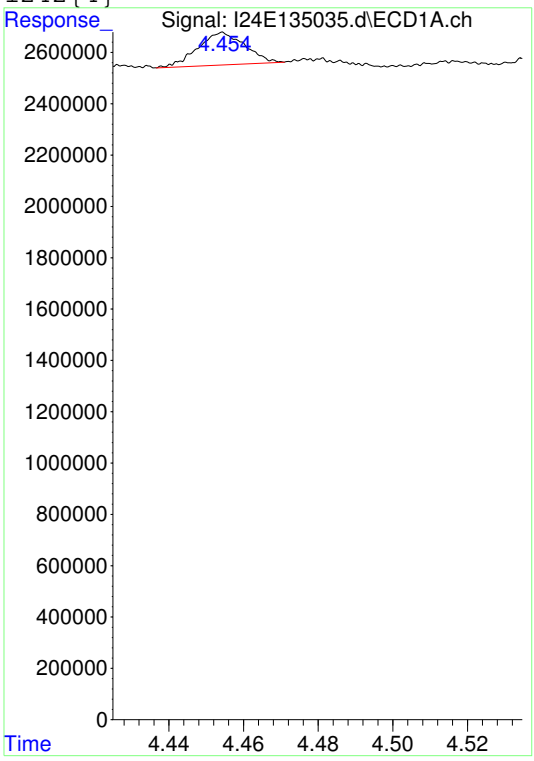
Manual Integration
1248{2}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135035.d
Acq On : 14 May 2024 7:30 pm
Operator : PJG
Sample : 24E1437-04@4X TBA
Misc :

Quant Time : Wed May 15 08:24:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1242{4}



Original Int. Results

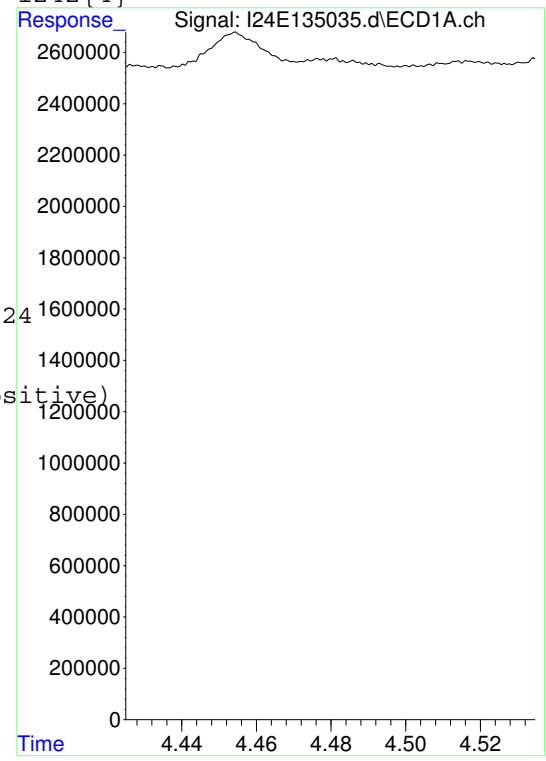
RT : 4.45
Area : 1.09443e+006
Amount: 0.597062

Manual Int. Results

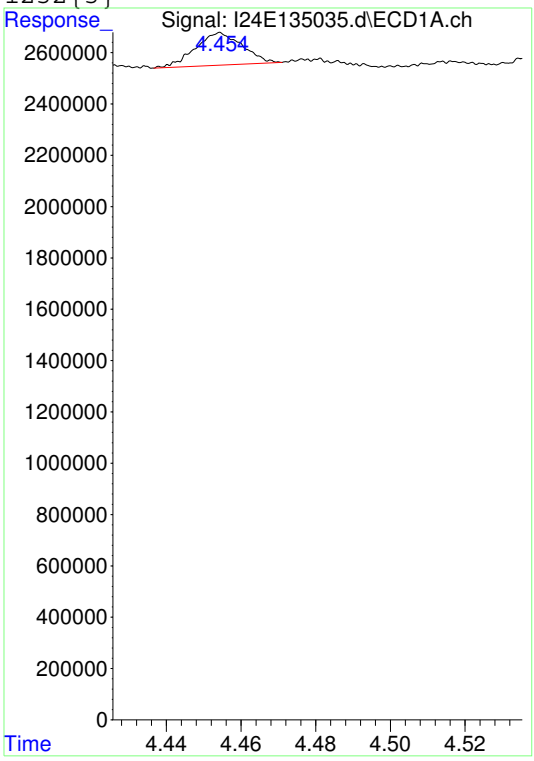
Wed May 15 08:23:56 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1242{4}



Original Integration
1232{3}



Original Int. Results

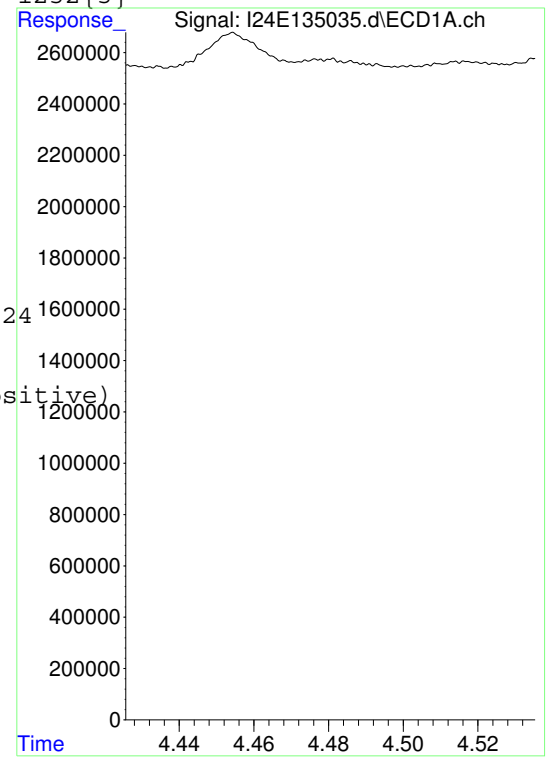
RT : 4.45
Area : 1.09443e+006
Amount: 1.08786

Manual Int. Results

Wed May 15 08:23:55 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

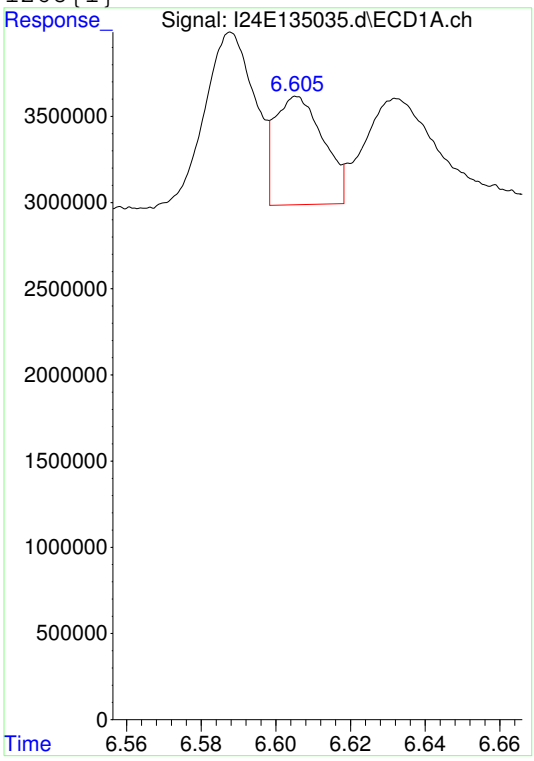
Manual Integration
1232{3}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135035.d
Acq On : 14 May 2024 7:30 pm
Operator : PJG
Sample : 24E1437-04@4X TBA
Misc :

Quant Time : Wed May 15 08:24:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1268{1}



Original Int. Results

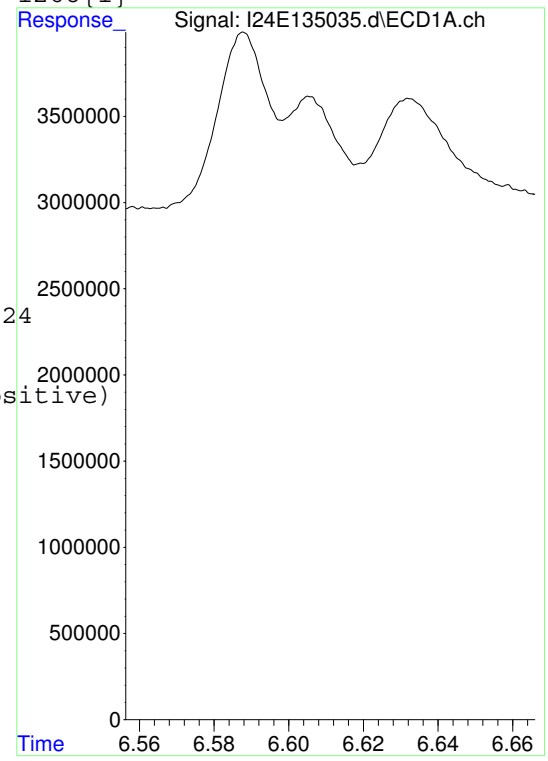
RT : 6.61
Area : 5.67388e+006
Amount: 0.539567

Manual Int. Results

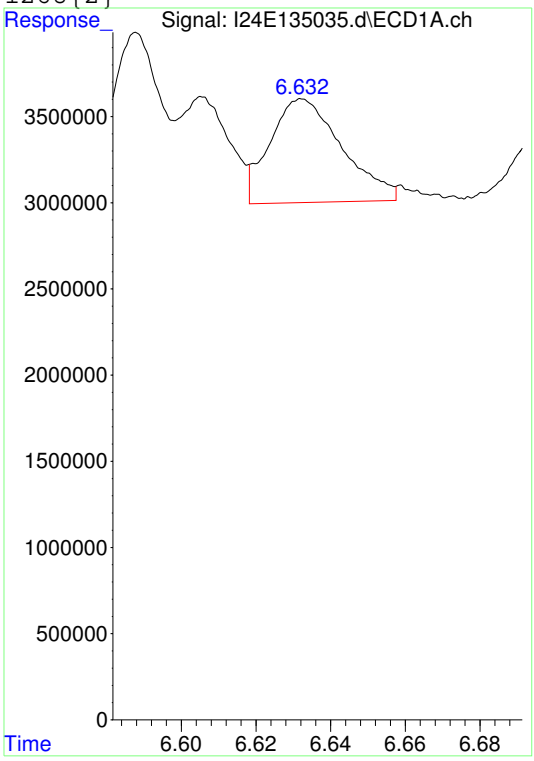
Wed May 15 08:23:55 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1268{1}



Original Integration
1268{2}



Original Int. Results

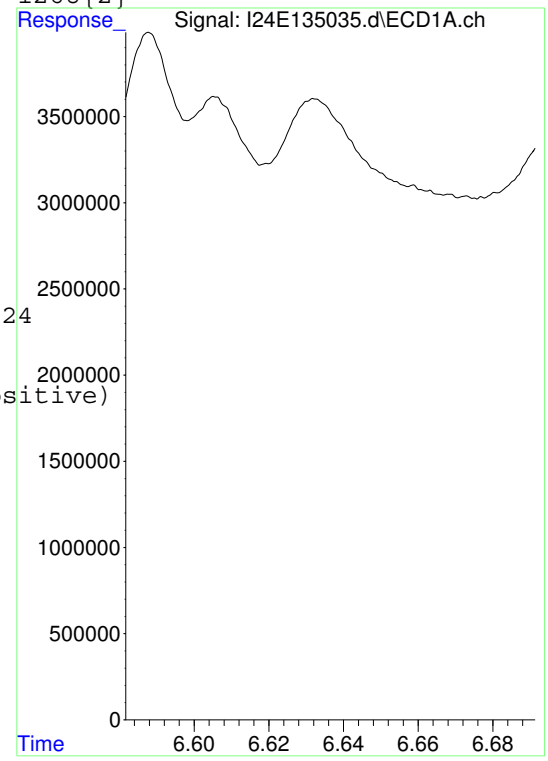
RT : 6.63
Area : 8.0908e+006
Amount: 0.755614

Manual Int. Results

Wed May 15 08:23:55 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

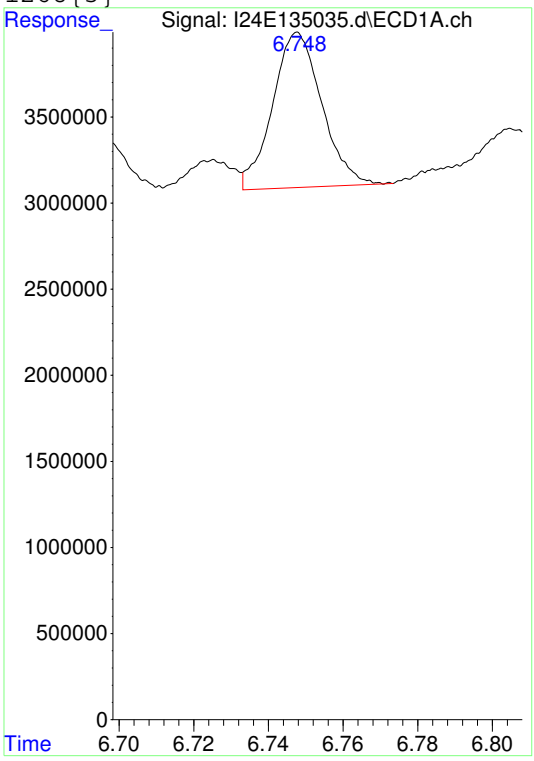
Manual Integration
1268{2}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135035.d
Acq On : 14 May 2024 7:30 pm
Operator : PJG
Sample : 24E1437-04@4X TBA
Misc :

Quant Time : Wed May 15 08:24:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1268{3}



Original Int. Results

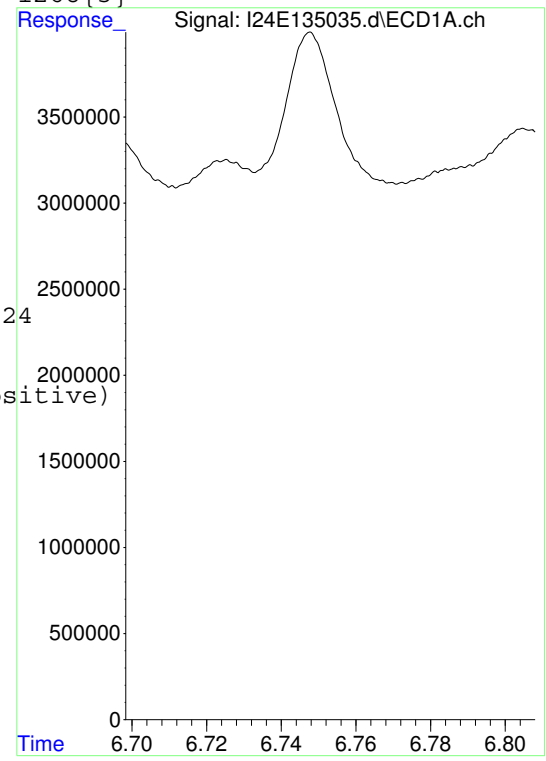
RT : 6.75
Area : 8.24593e+006
Amount: 0.857707

Manual Int. Results

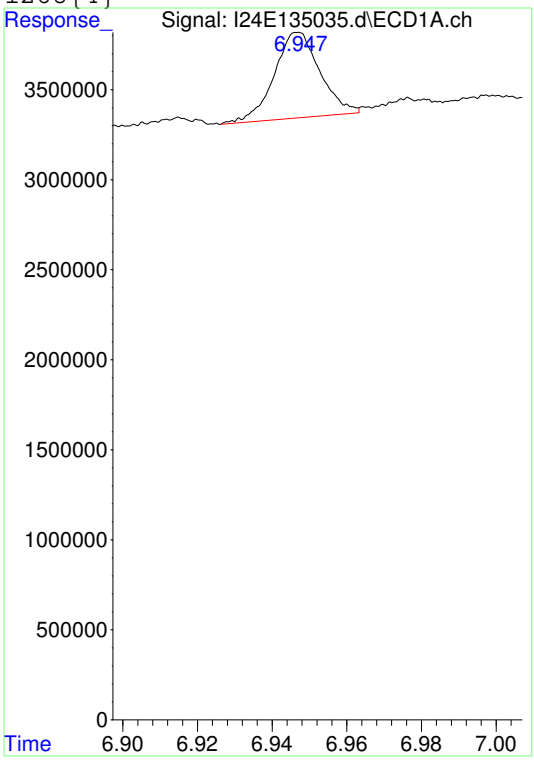
Wed May 15 08:23:54 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1268{3}



Original Integration
1268{4}



Original Int. Results

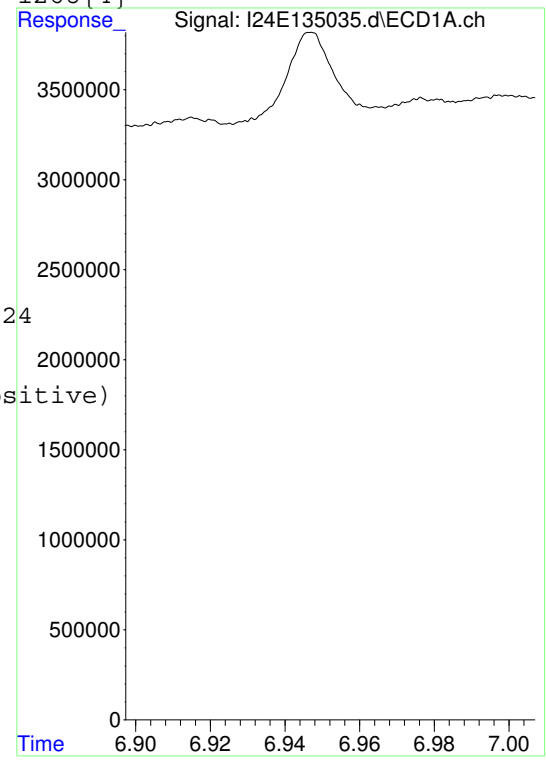
RT : 6.95
Area : 4.01185e+006
Amount: 1.37155

Manual Int. Results

Wed May 15 08:23:54 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

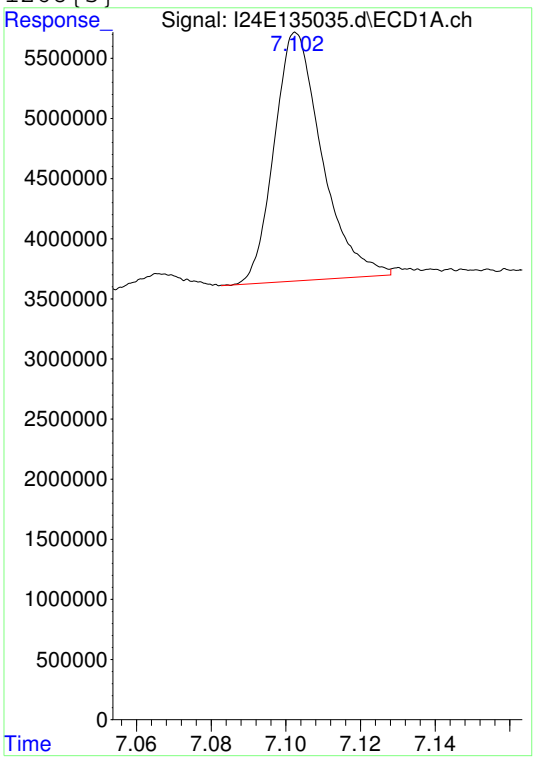
Manual Integration
1268{4}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135035.d
Acq On : 14 May 2024 7:30 pm
Operator : PJG
Sample : 24E1437-04@4X TBA
Misc :

Quant Time : Wed May 15 08:24:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1268{5}



Original Int. Results

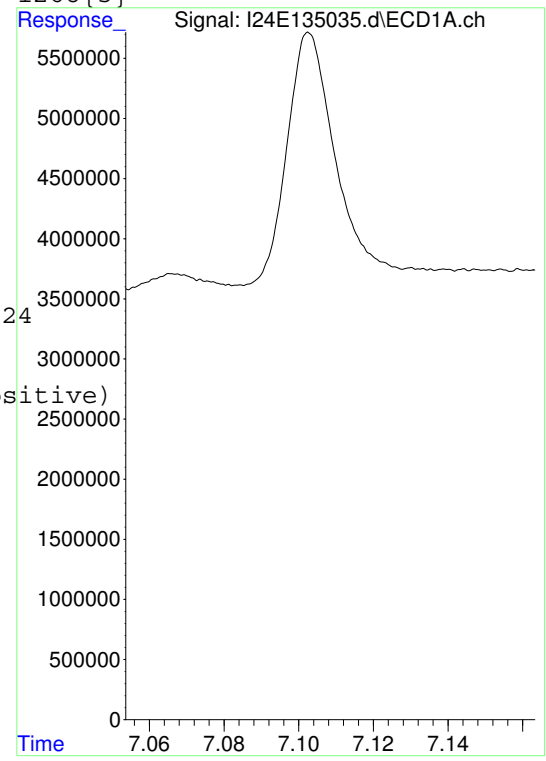
RT : 7.10
Area : 1.83041e+007
Amount: 0.740568

Manual Int. Results

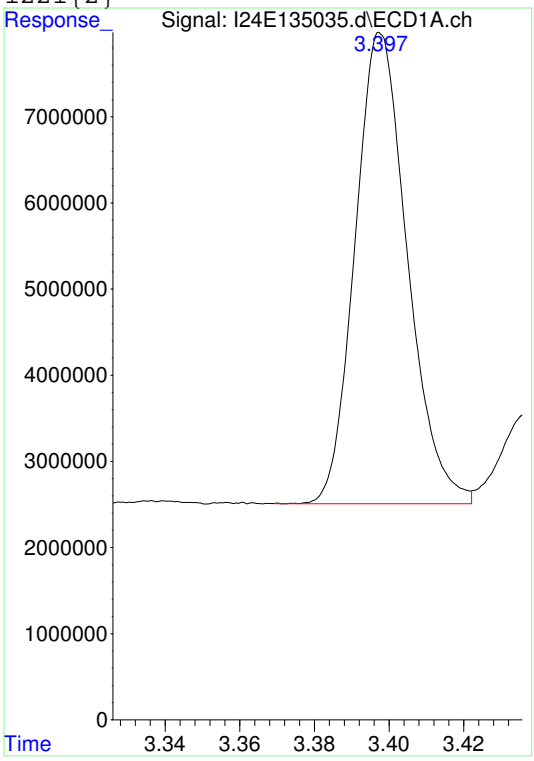
Wed May 15 08:23:54 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1268{5}



Original Integration
1221{2}



Original Int. Results

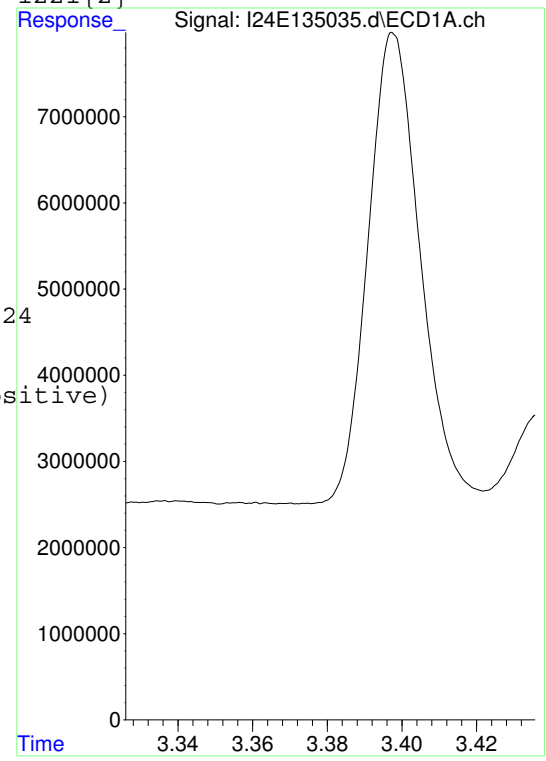
RT : 3.40
Area : 5.32534e+007
Amount: 25.7682

Manual Int. Results

Wed May 15 08:23:54 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

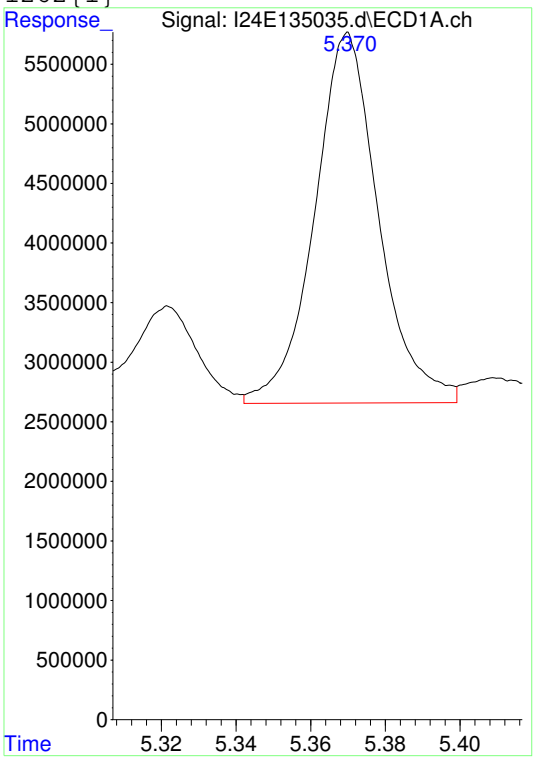
Manual Integration
1221{2}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135035.d
Acq On : 14 May 2024 7:30 pm
Operator : PJG
Sample : 24E1437-04@4X TBA
Misc :

Quant Time : Wed May 15 08:24:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1262{1}



Original Int. Results

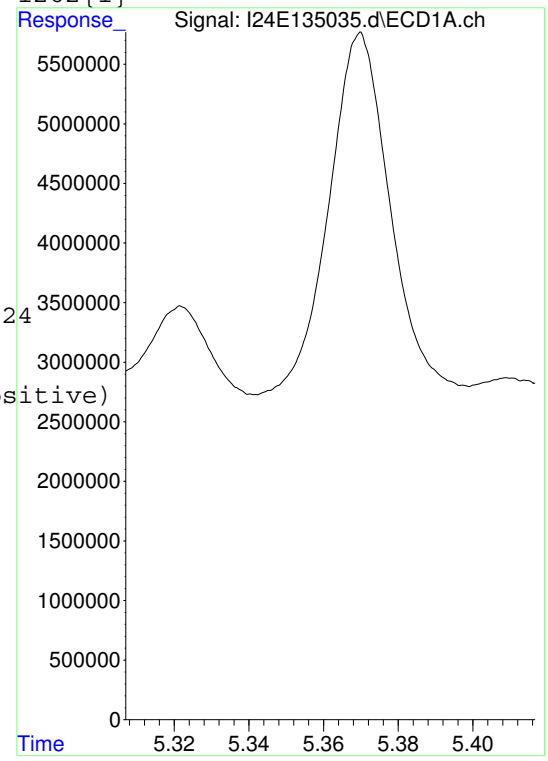
RT : 5.37
Area : 3.70181e+007
Amount: 18.223

Manual Int. Results

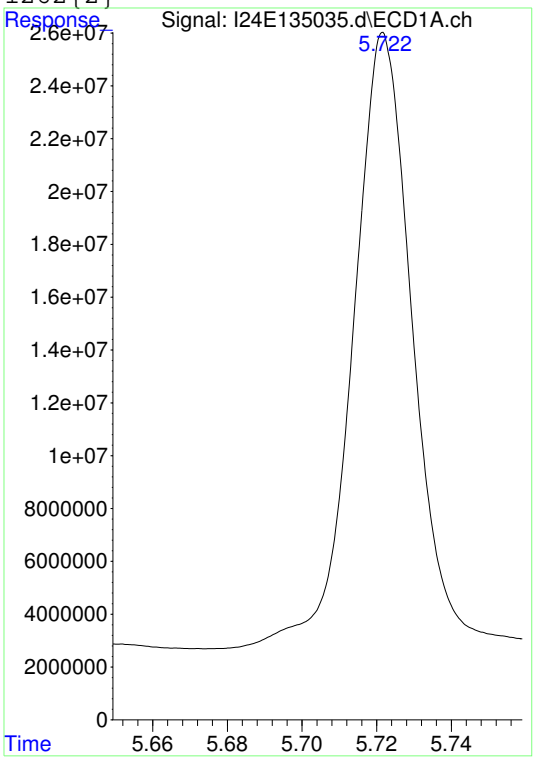
Wed May 15 08:23:53 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1262{1}



Original Integration
1262{2}



Original Int. Results

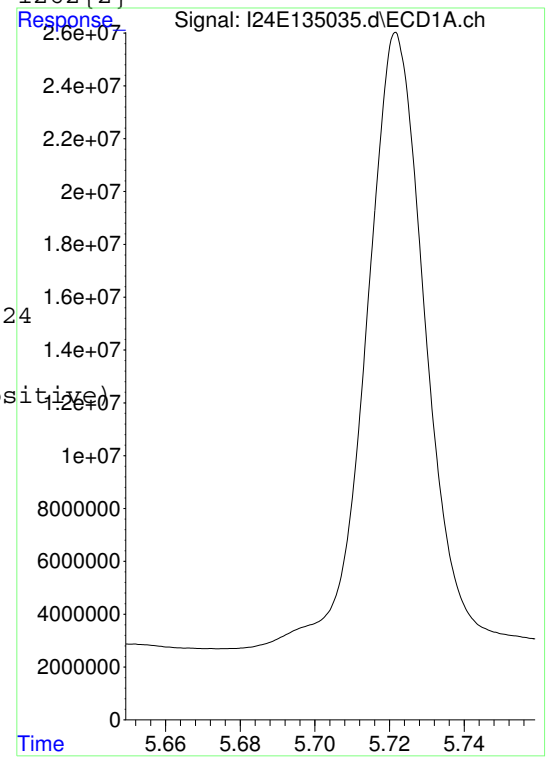
RT : 5.72
Area : 2.62231e+008
Amount: 56.0988

Manual Int. Results

Wed May 15 08:23:53 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

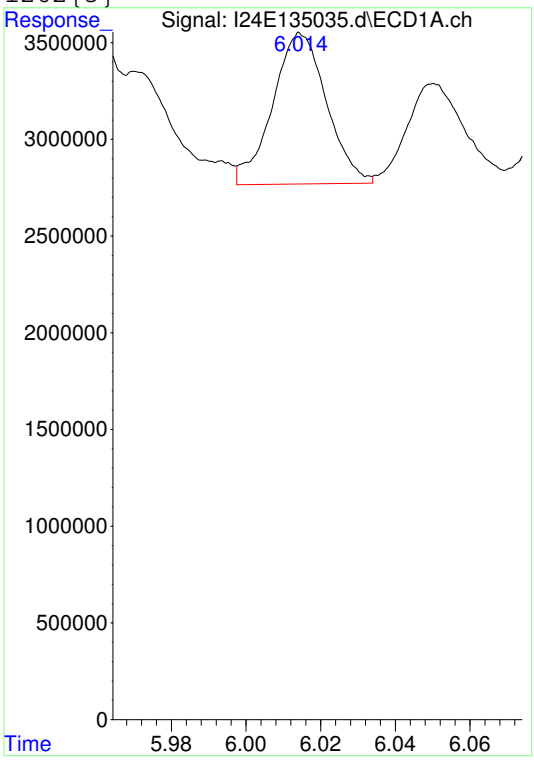
Manual Integration
1262{2}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135035.d
Acq On : 14 May 2024 7:30 pm
Operator : PJG
Sample : 24E1437-04@4X TBA
Misc :

Quant Time : Wed May 15 08:24:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1262{3}



Original Int. Results

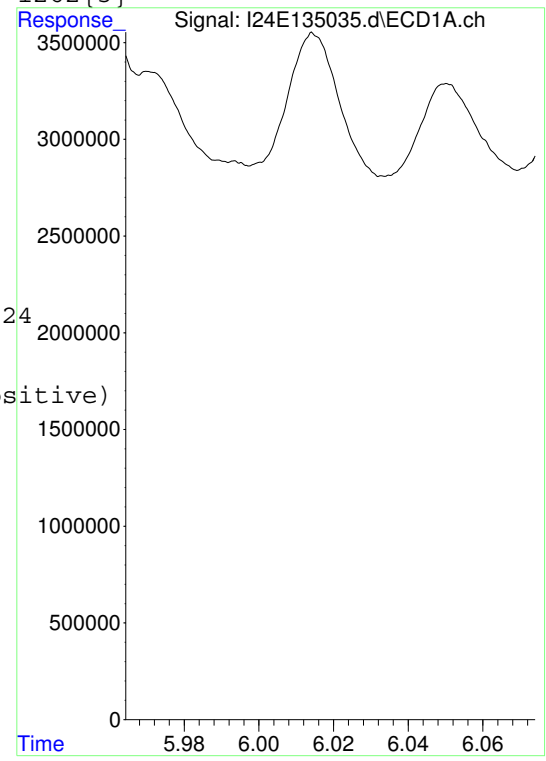
RT : 6.01
Area : 7.82344e+006
Amount: 1.58016

Manual Int. Results

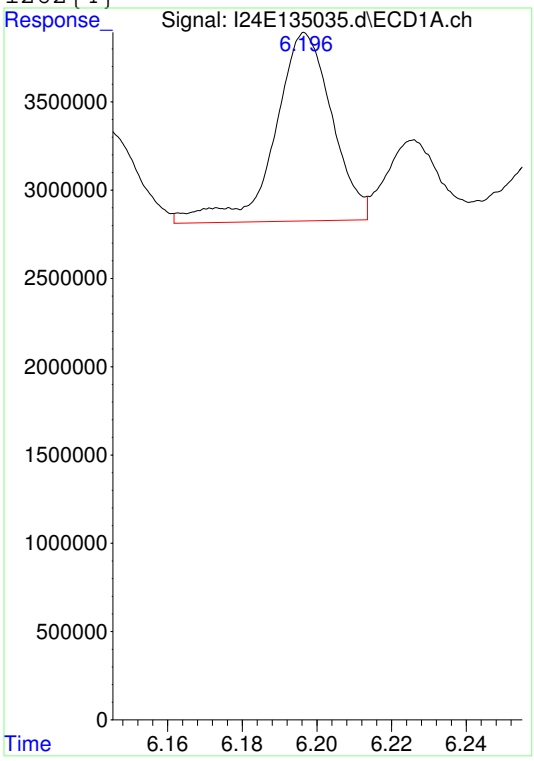
Wed May 15 08:23:53 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1262{3}



Original Integration
1262{4}



Original Int. Results

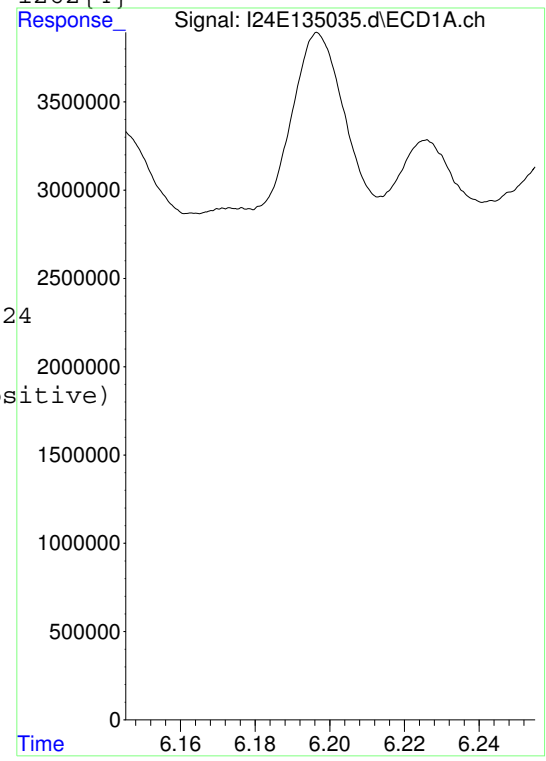
RT : 6.20
Area : 1.139e+007
Amount: 2.51814

Manual Int. Results

Wed May 15 08:23:53 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

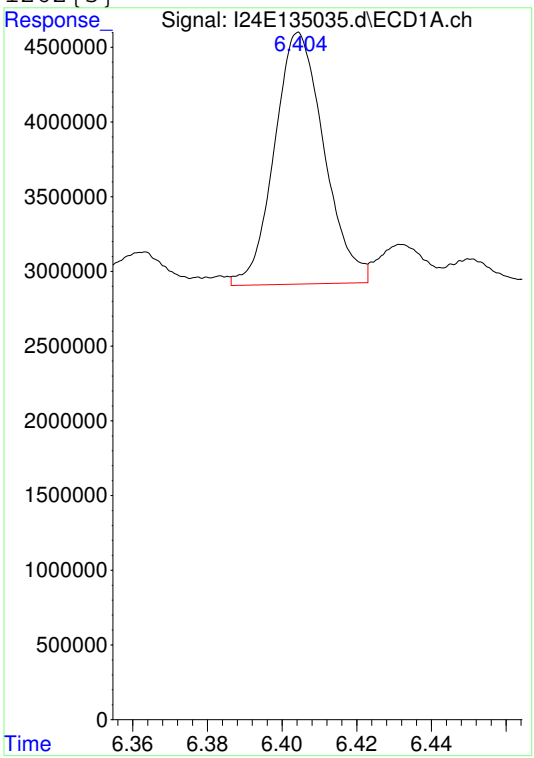
Manual Integration
1262{4}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135035.d
Acq On : 14 May 2024 7:30 pm
Operator : PJG
Sample : 24E1437-04@4X TBA
Misc :

Quant Time : Wed May 15 08:24:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1262{5}



Original Int. Results

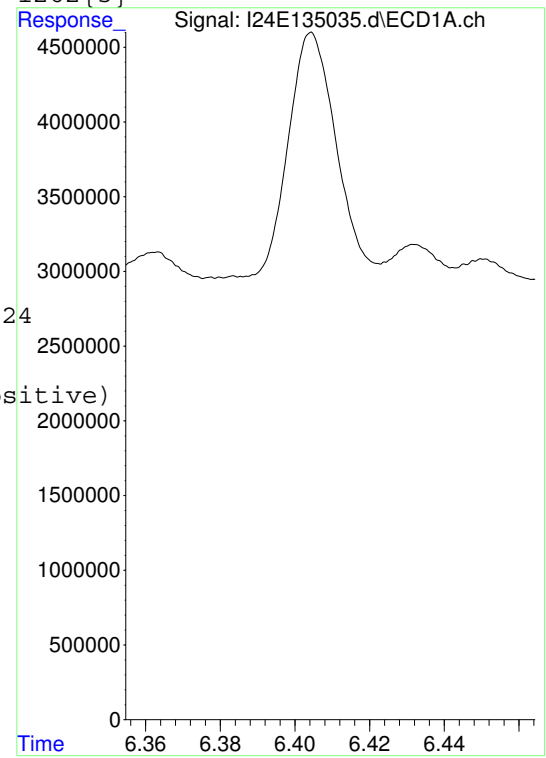
RT : 6.40
Area : 1.55131e+007
Amount: 1.53951

Manual Int. Results

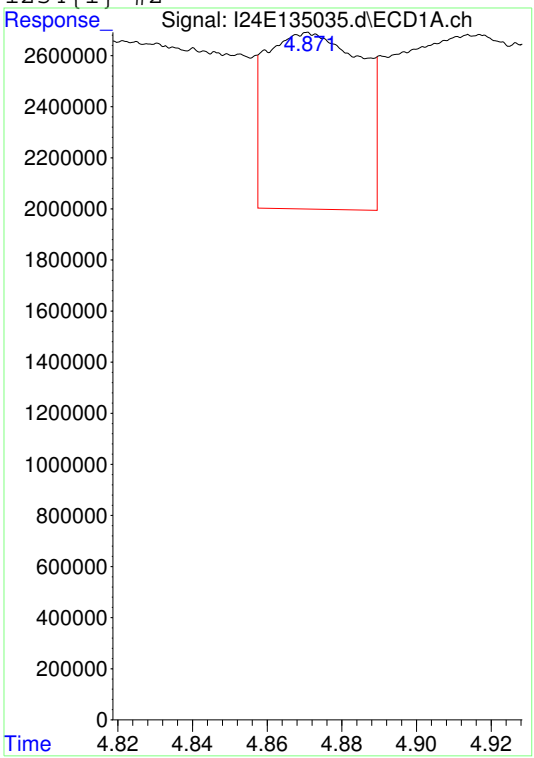
Wed May 15 08:23:52 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1262{5}



Original Integration
1254{1} #2



Original Int. Results

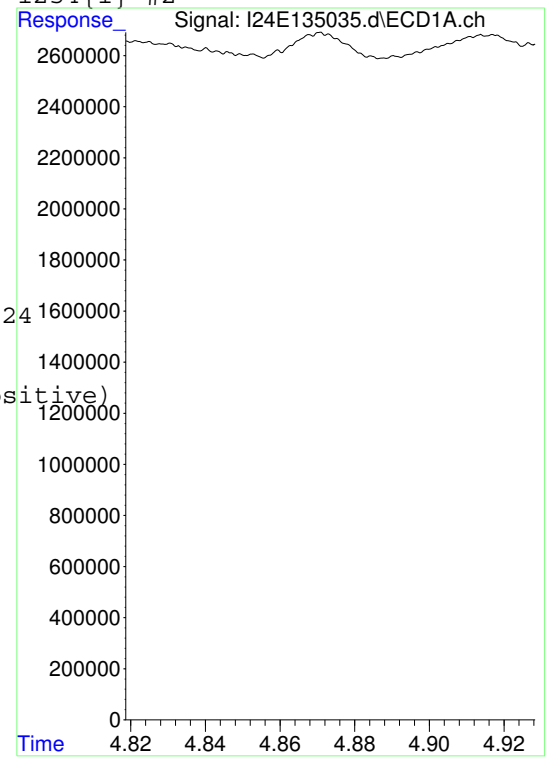
RT : 4.87
Area : 2.17721e+006
Amount: 0.82568

Manual Int. Results

Wed May 15 08:23:59 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

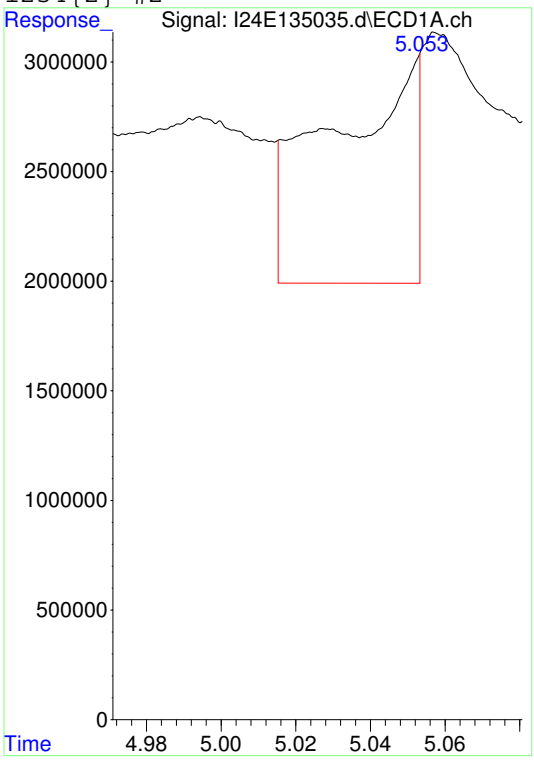
Manual Integration
1254{1} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135035.d
Acq On : 14 May 2024 7:30 pm
Operator : PJG
Sample : 24E1437-04@4X TBA
Misc :

Quant Time : Wed May 15 08:24:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1254{2} #2



Original Int. Results

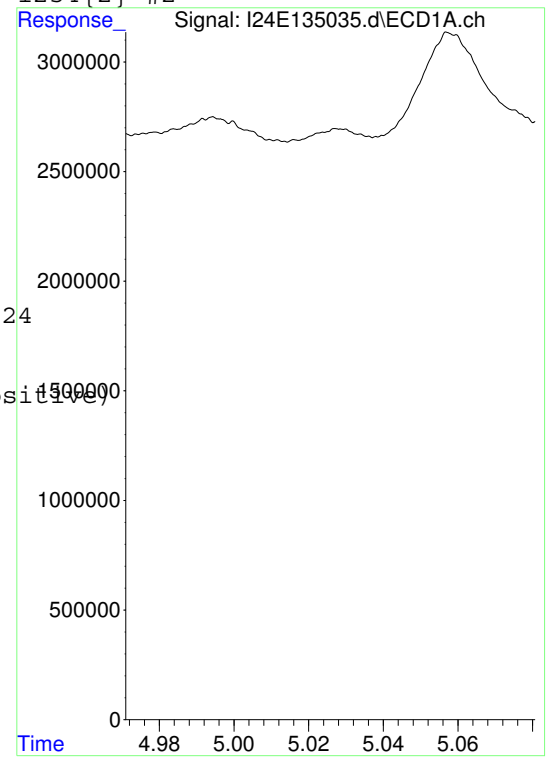
RT : 5.03
Area : 6.47976e+006
Amount: 2.13448

Manual Int. Results

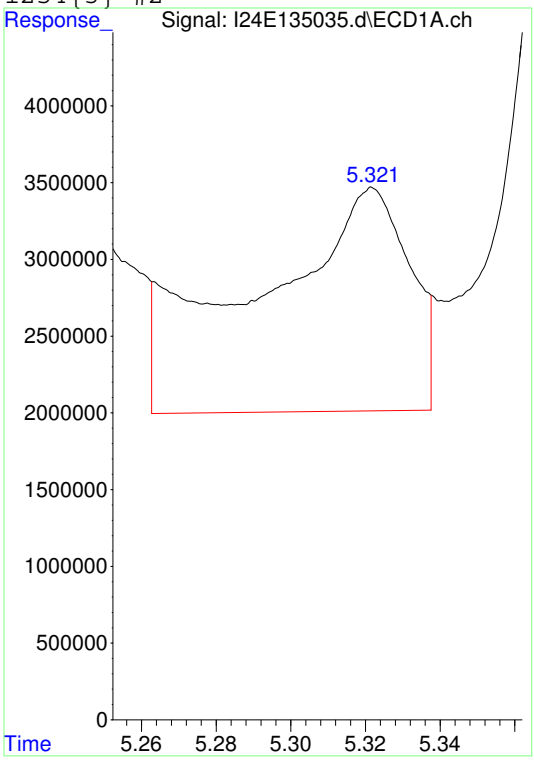
Wed May 15 08:23:59 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1254{2} #2



Original Integration
1254{3} #2



Original Int. Results

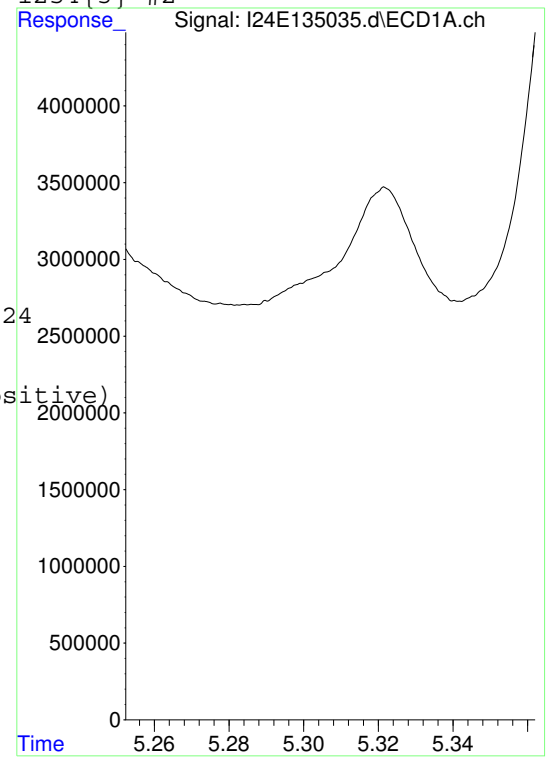
RT : 5.29
Area : 1.87791e+008
Amount: 76.7831

Manual Int. Results

Wed May 15 08:23:58 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

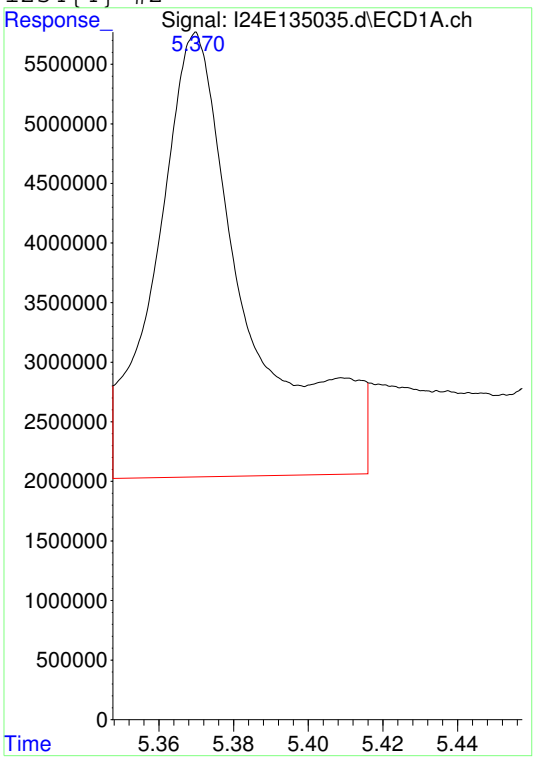
Manual Integration
1254{3} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135035.d
Acq On : 14 May 2024 7:30 pm
Operator : PJG
Sample : 24E1437-04@4X TBA
Misc :

Quant Time : Wed May 15 08:24:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1254{4} #2



Original Int. Results

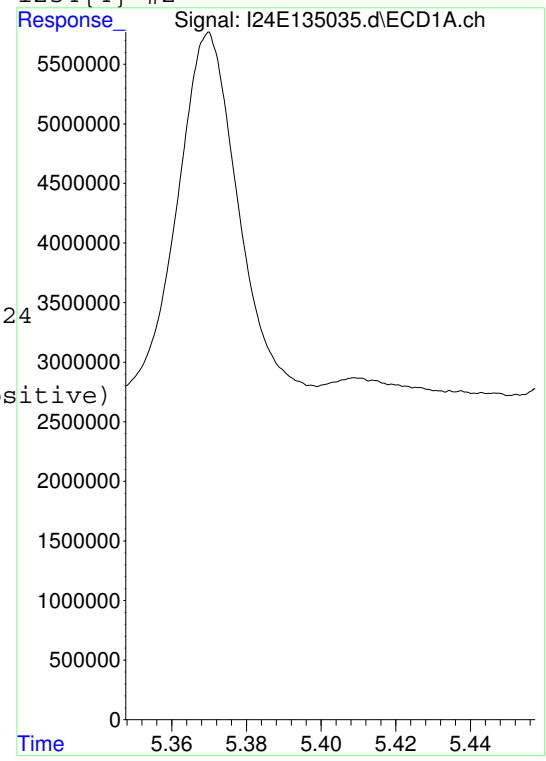
RT : 5.40
Area : 1.13259e+007
Amount: 2.61641

Manual Int. Results

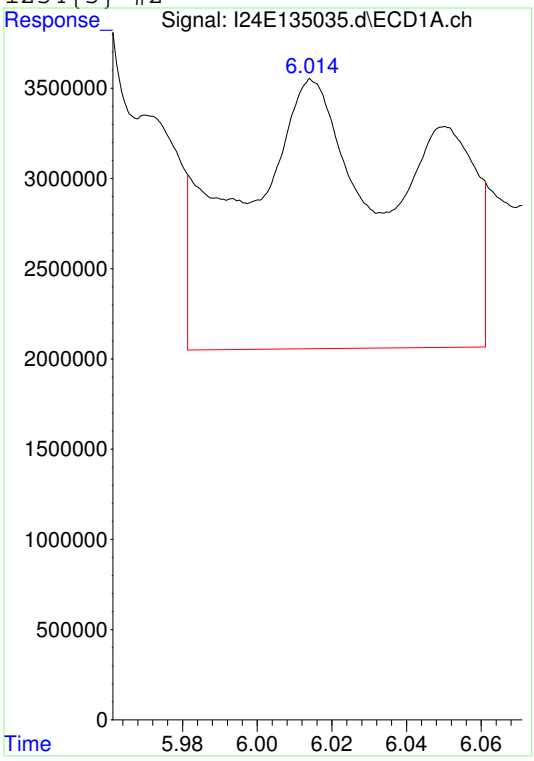
Wed May 15 08:23:58 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1254{4} #2



Original Integration
1254{5} #2



Original Int. Results

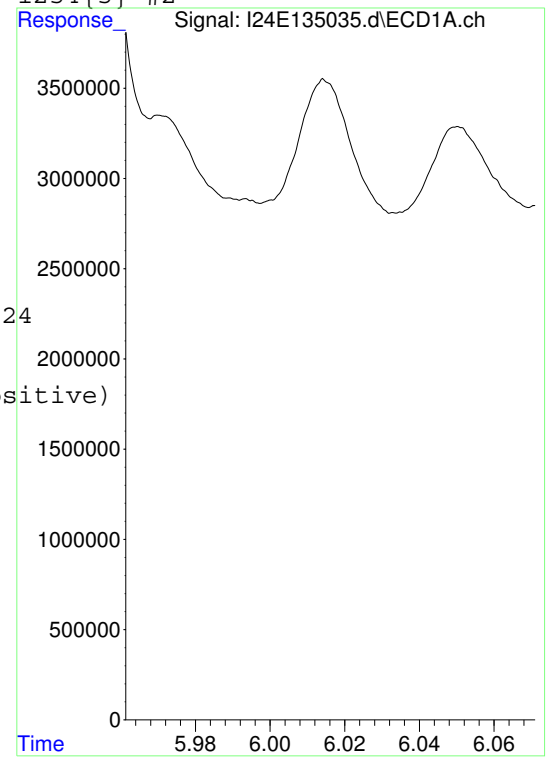
RT : 6.01
Area : 5.28356e+007
Amount: 11.0339

Manual Int. Results

Wed May 15 08:23:58 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

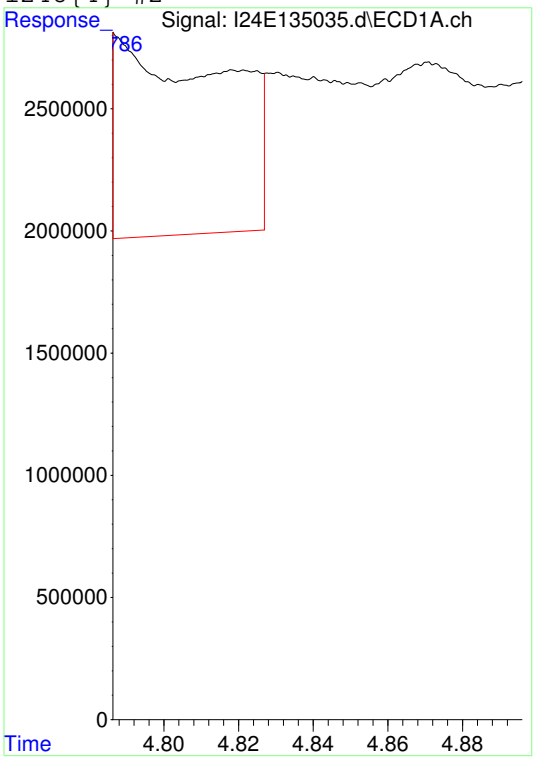
Manual Integration
1254{5} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135035.d
Acq On : 14 May 2024 7:30 pm
Operator : PJG
Sample : 24E1437-04@4X TBA
Misc :

Quant Time : Wed May 15 08:24:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1248{4} #2



Original Int. Results

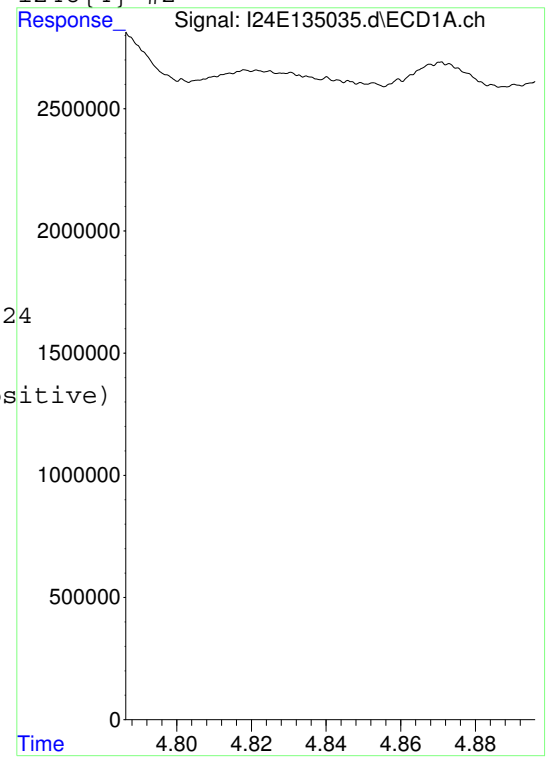
RT : 4.81
Area : 1.42991e+006
Amount: 0.595841

Manual Int. Results

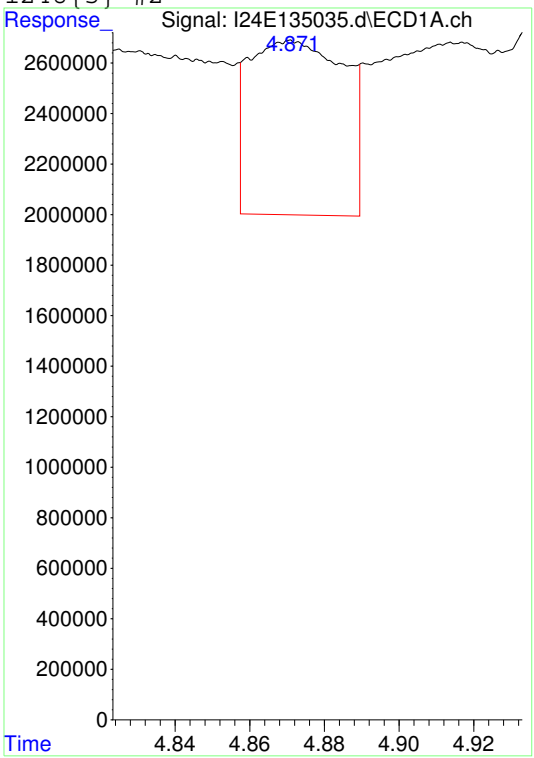
Wed May 15 08:23:57 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1248{4} #2



Original Integration
1248{5} #2



Original Int. Results

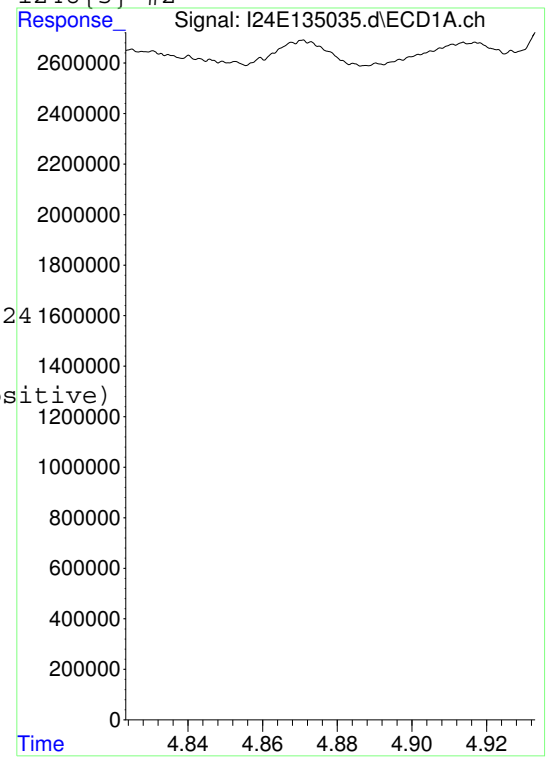
RT : 4.87
Area : 2.17721e+006
Amount: 0.779958

Manual Int. Results

Wed May 15 08:23:57 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

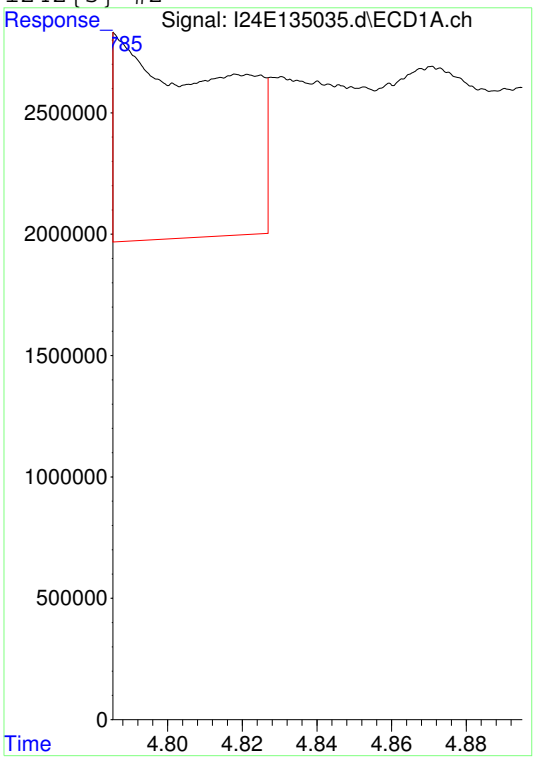
Manual Integration
1248{5} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135035.d
Acq On : 14 May 2024 7:30 pm
Operator : PJG
Sample : 24E1437-04@4X TBA
Misc :

Quant Time : Wed May 15 08:24:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1242{5} #2



Original Int. Results

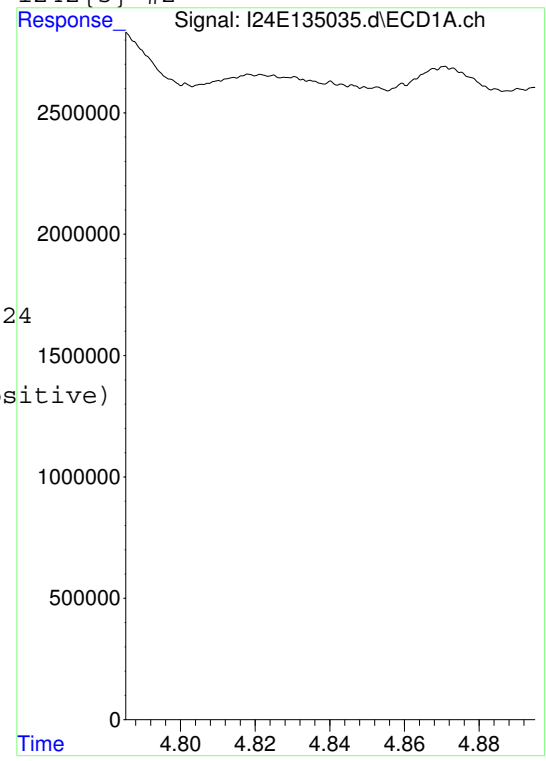
RT : 4.81
Area : 1.42991e+006
Amount: 1.15184

Manual Int. Results

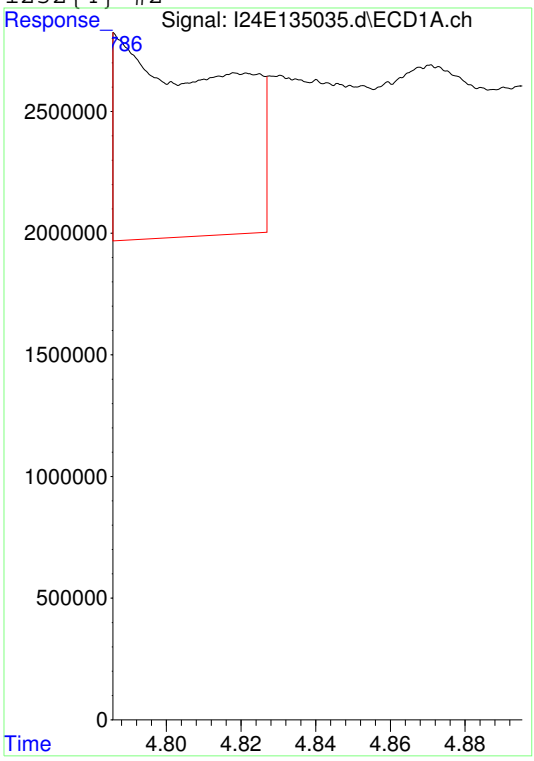
Wed May 15 08:23:56 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1242{5} #2



Original Integration
1232{4} #2



Original Int. Results

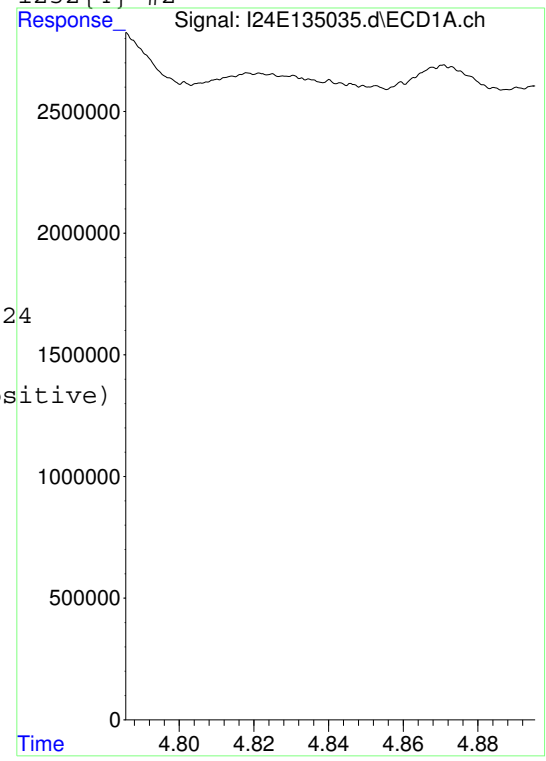
RT : 4.81
Area : 1.42991e+006
Amount: 1.95194

Manual Int. Results

Wed May 15 08:23:55 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

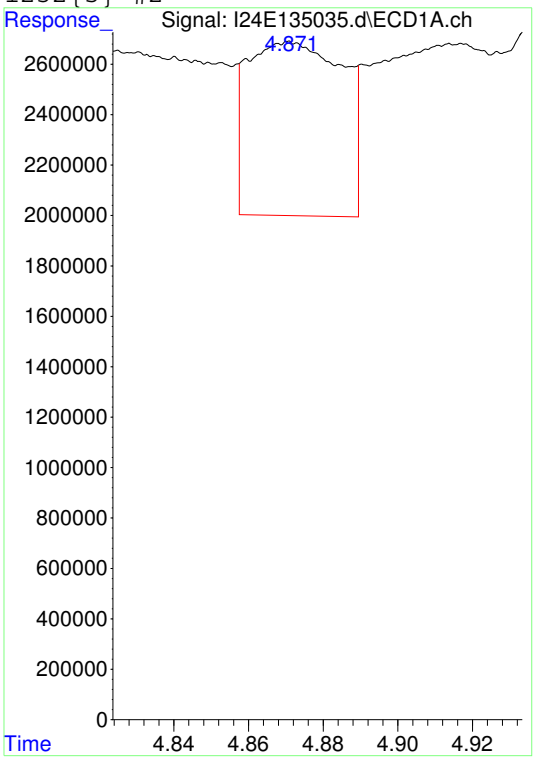
Manual Integration
1232{4} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135035.d
Acq On : 14 May 2024 7:30 pm
Operator : PJG
Sample : 24E1437-04@4X TBA
Misc :

Quant Time : Wed May 15 08:24:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1232{5} #2



Original Int. Results

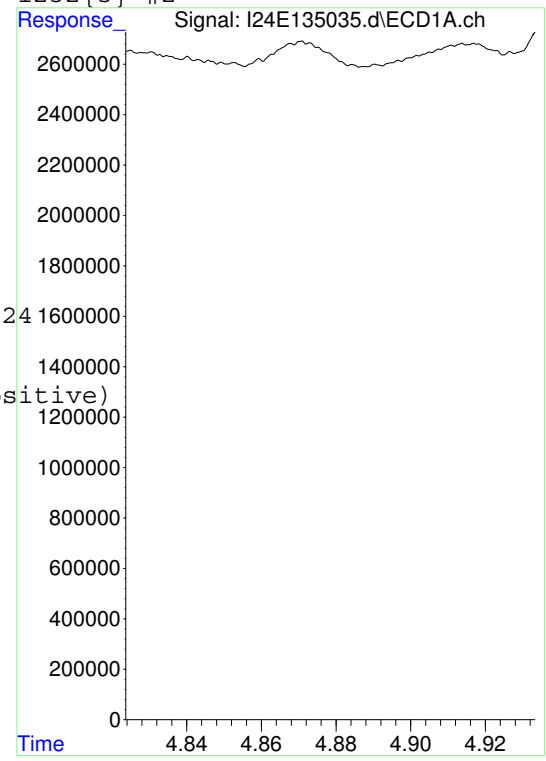
RT : 4.87
Area : 2.17721e+006
Amount: 2.48028

Manual Int. Results

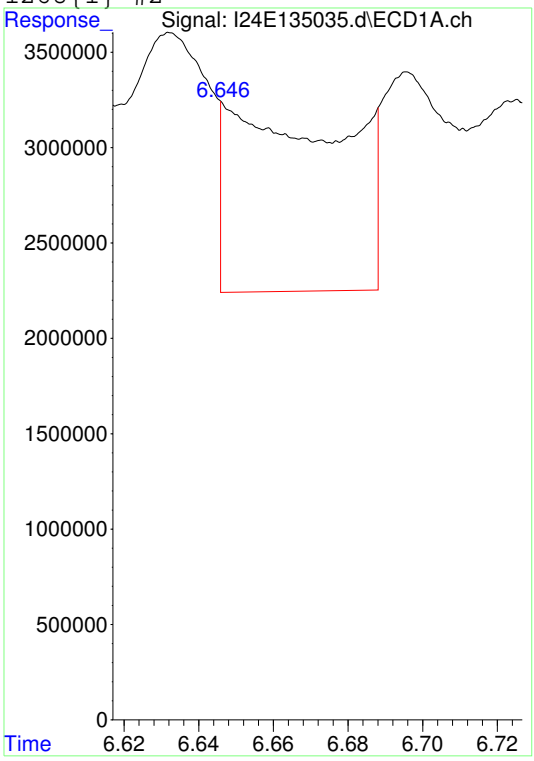
Wed May 15 08:23:55 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1232{5} #2



Original Integration
1268{1} #2



Original Int. Results

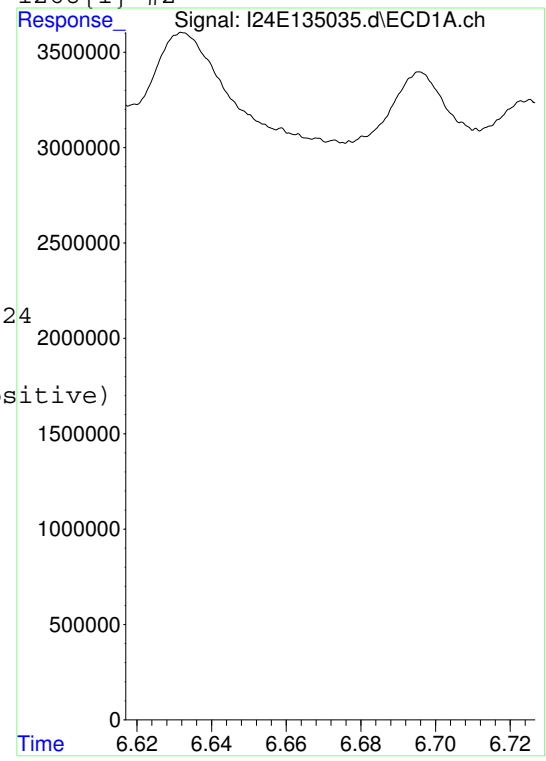
RT : 6.67
Area : 9.33622e+006
Amount: 1.13573

Manual Int. Results

Wed May 15 08:23:55 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

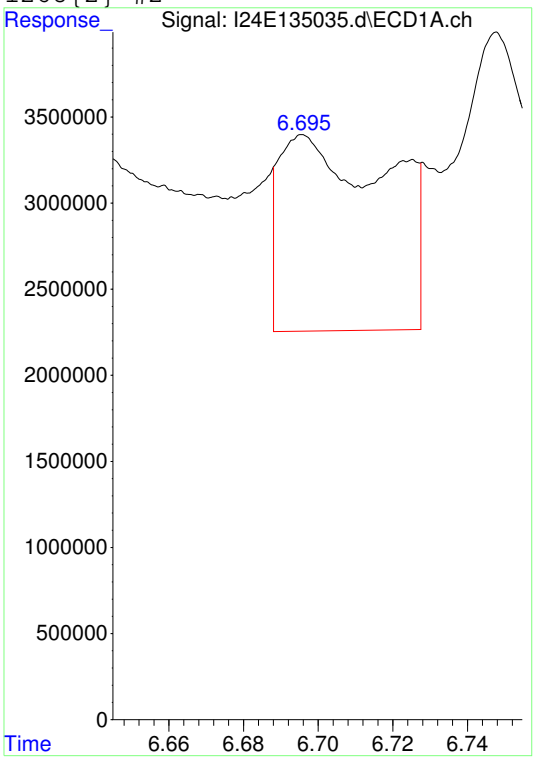
Manual Integration
1268{1} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135035.d
Acq On : 14 May 2024 7:30 pm
Operator : PJG
Sample : 24E1437-04@4X TBA
Misc :

Quant Time : Wed May 15 08:24:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1268{2} #2



Original Int. Results

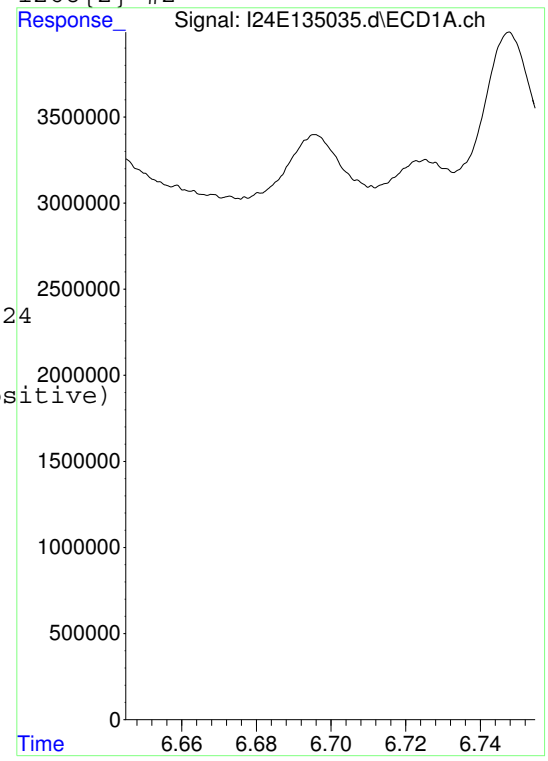
RT : 6.70
Area : 4.78881e+006
Amount: 0.59629

Manual Int. Results

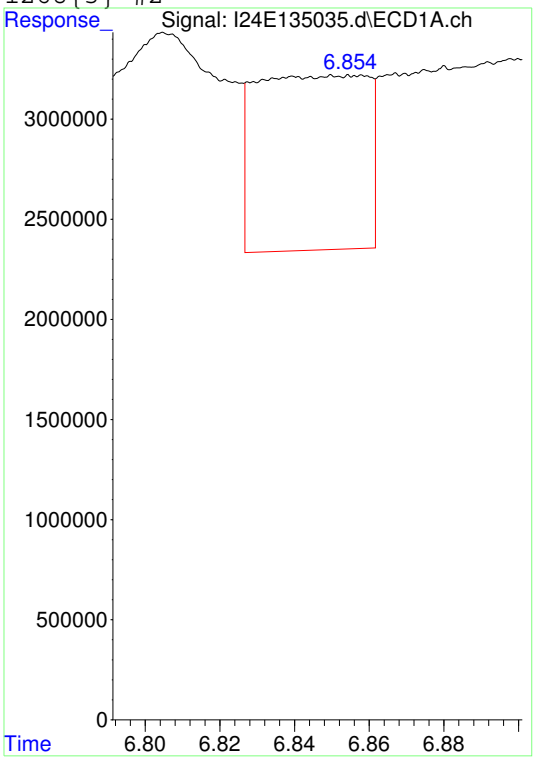
Wed May 15 08:23:55 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1268{2} #2



Original Integration
1268{3} #2



Original Int. Results

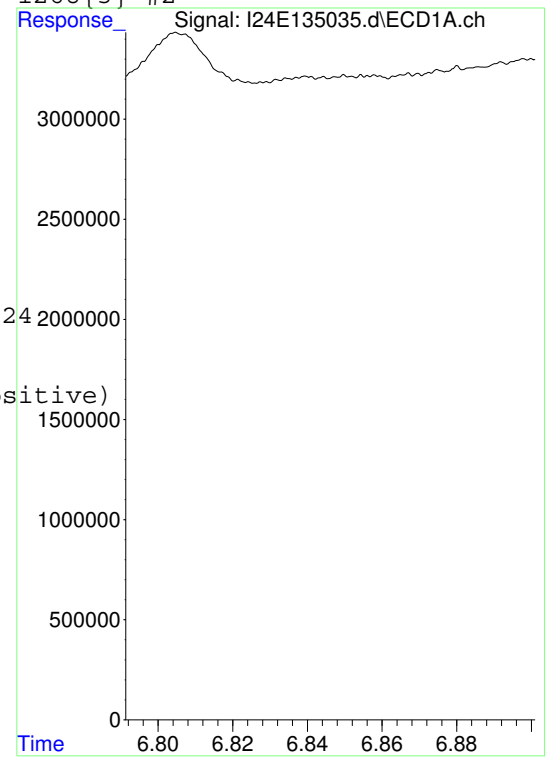
RT : 6.84
Area : 5.74275e+006
Amount: 0.771094

Manual Int. Results

Wed May 15 08:23:54 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

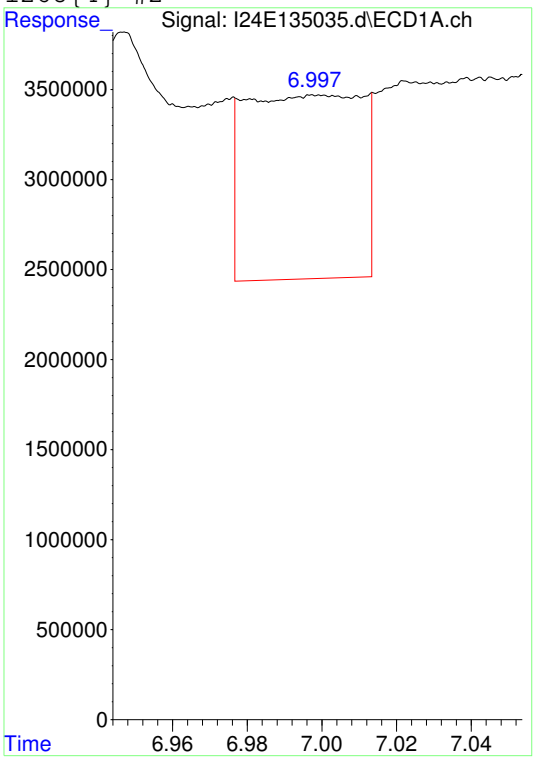
Manual Integration
1268{3} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135035.d
Acq On : 14 May 2024 7:30 pm
Operator : PJG
Sample : 24E1437-04@4X TBA
Misc :

Quant Time : Wed May 15 08:24:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1268{4} #2



Original Int. Results

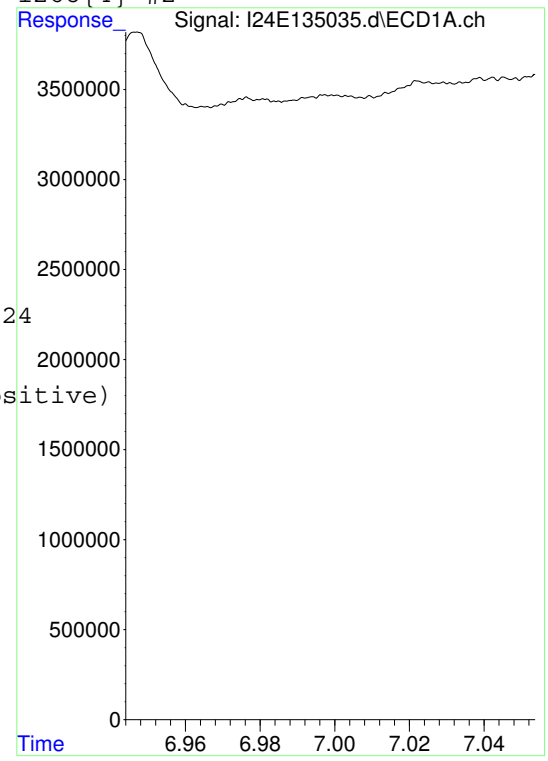
RT : 7.00
Area : 3.42878e+006
Amount: 1.608

Manual Int. Results

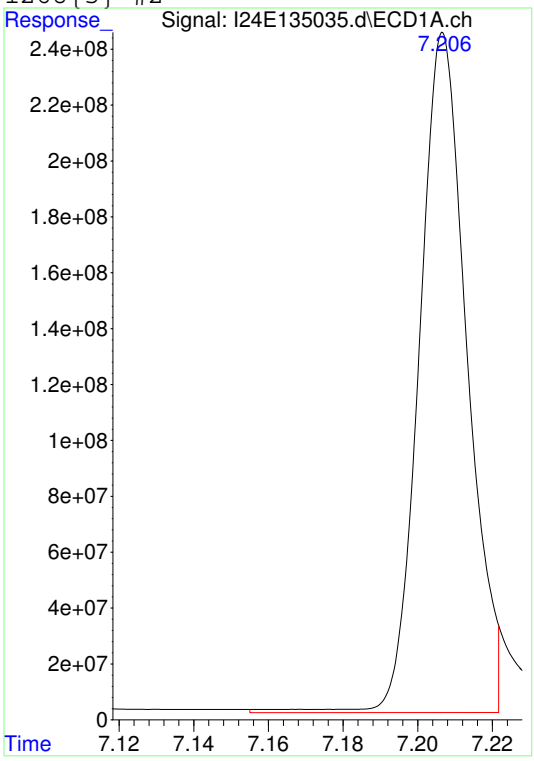
Wed May 15 08:23:54 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1268{4} #2



Original Integration
1268{5} #2



Original Int. Results

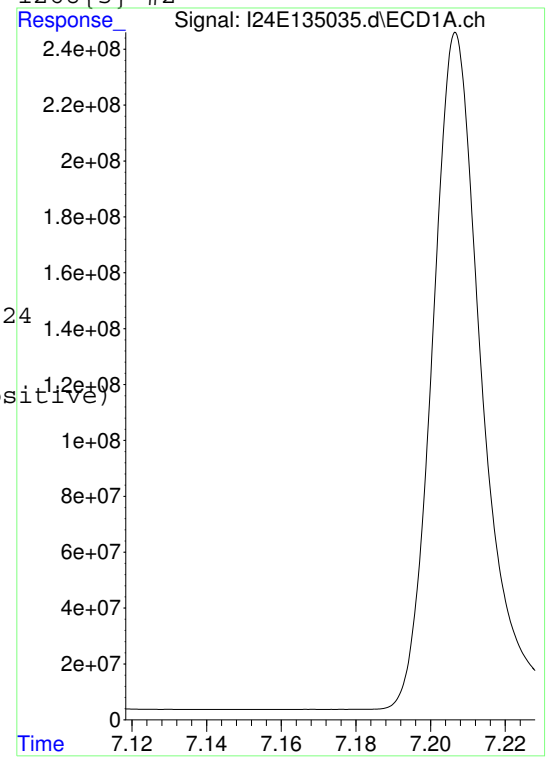
RT : 7.17
Area : 1.72815e+007
Amount: 0.852051

Manual Int. Results

Wed May 15 08:23:54 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

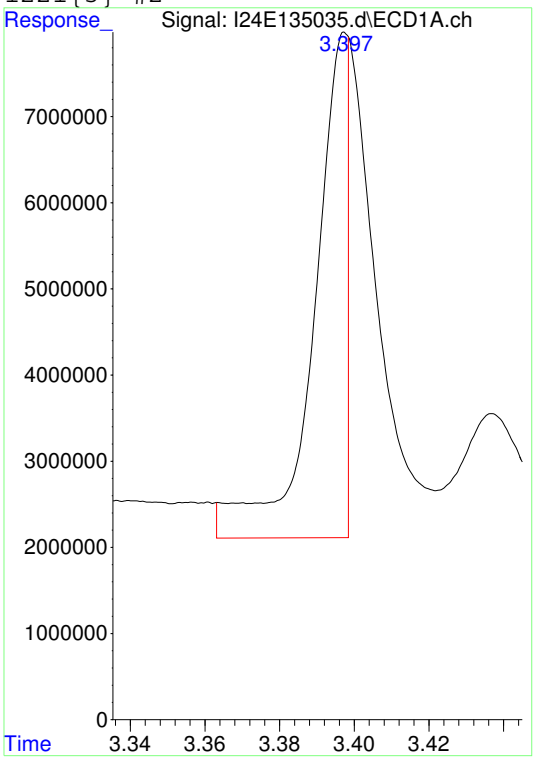
Manual Integration
1268{5} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135035.d
Acq On : 14 May 2024 7:30 pm
Operator : PJG
Sample : 24E1437-04@4X TBA
Misc :

Quant Time : Wed May 15 08:24:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1221{3} #2



Original Int. Results

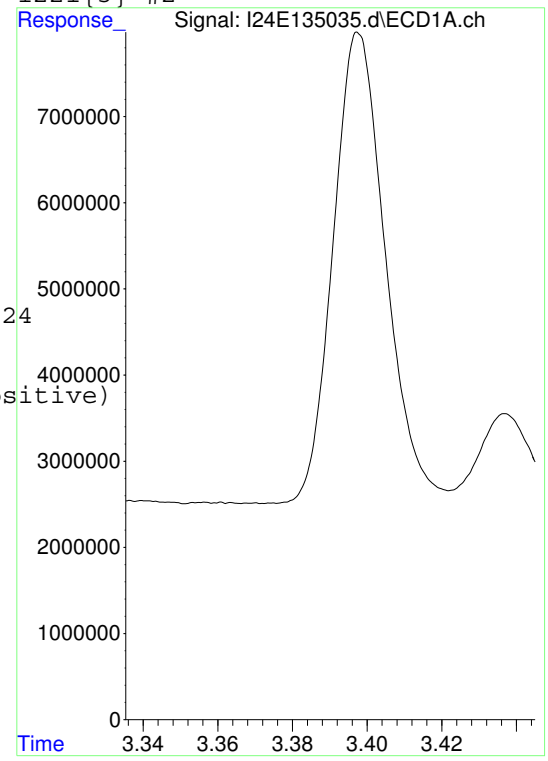
RT : 3.38
Area : 4.3658e+006
Amount: 2.90795

Manual Int. Results

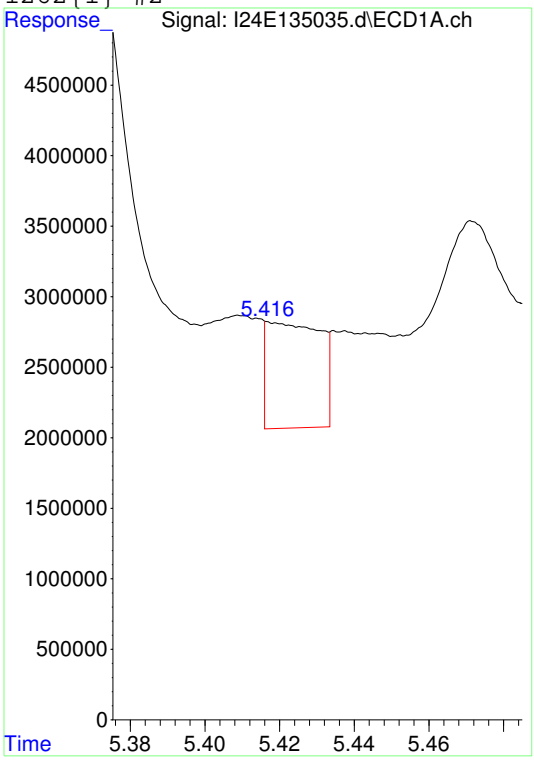
Wed May 15 08:23:53 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1221{3} #2



Original Integration
1262{1} #2



Original Int. Results

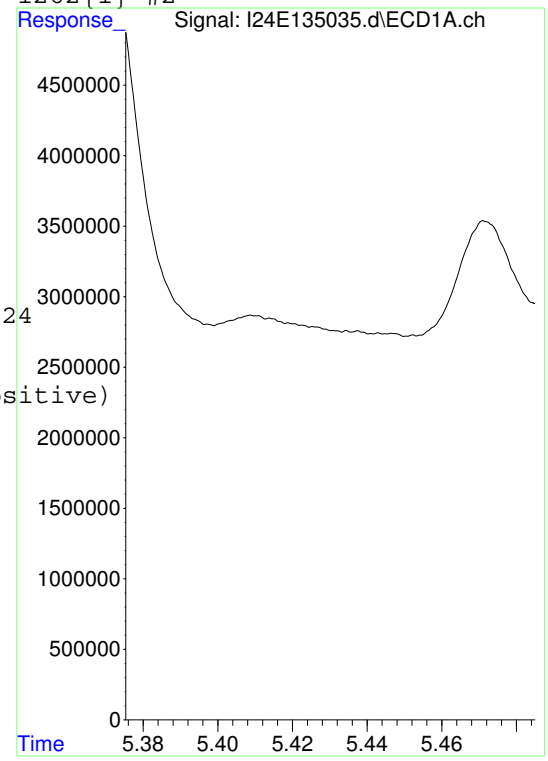
RT : 5.43
Area : 1.2477e+006
Amount: 0.880293

Manual Int. Results

Wed May 15 08:23:53 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

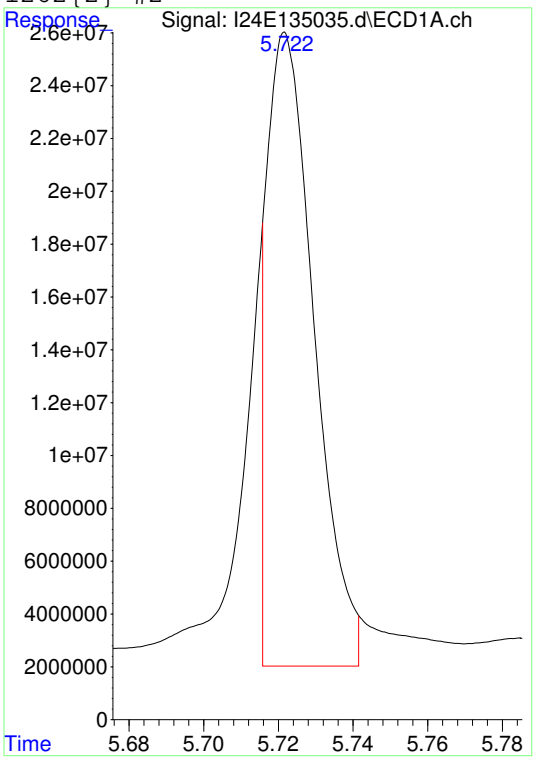
Manual Integration
1262{1} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135035.d
Acq On : 14 May 2024 7:30 pm
Operator : PJG
Sample : 24E1437-04@4X TBA
Misc :

Quant Time : Wed May 15 08:24:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1262{2} #2



Original Int. Results

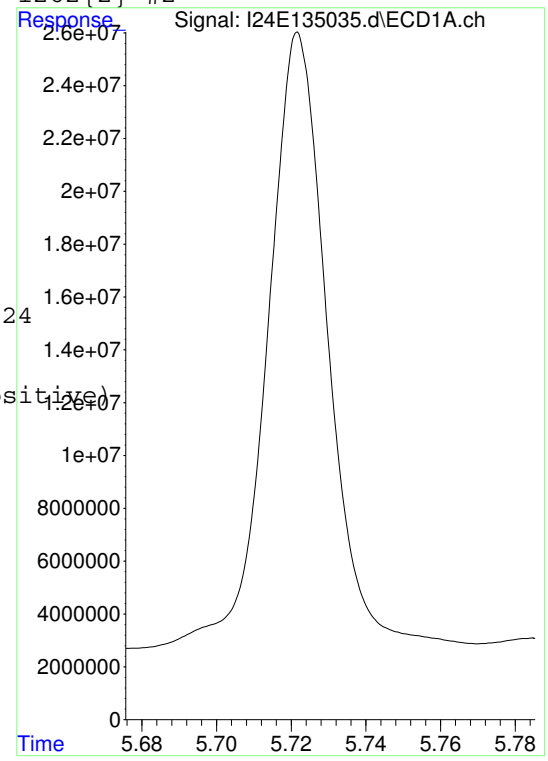
RT : 5.73
Area : 5.99233e+006
Amount: 2.0649

Manual Int. Results

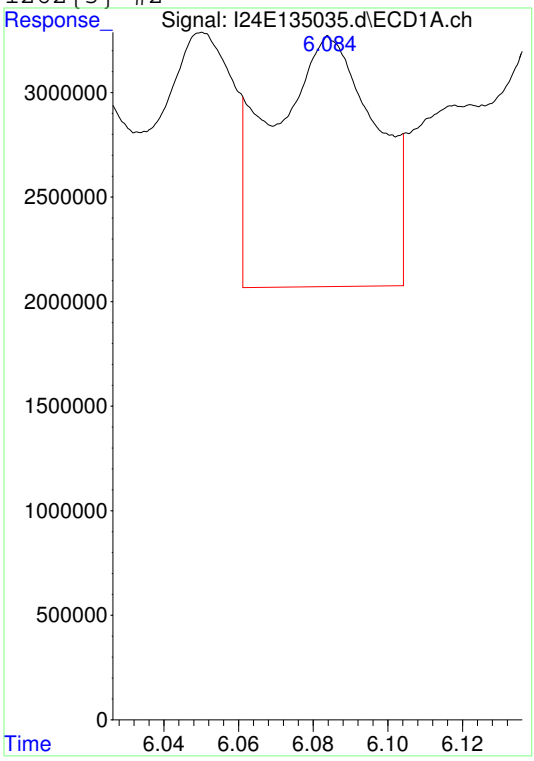
Wed May 15 08:23:53 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1262{2} #2



Original Integration
1262{3} #2



Original Int. Results

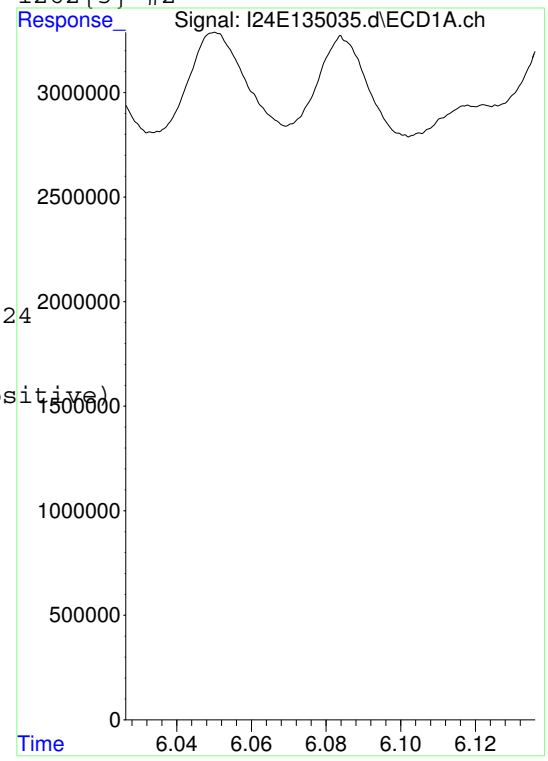
RT : 6.08
Area : 1.04804e+007
Amount: 2.96436

Manual Int. Results

Wed May 15 08:23:53 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

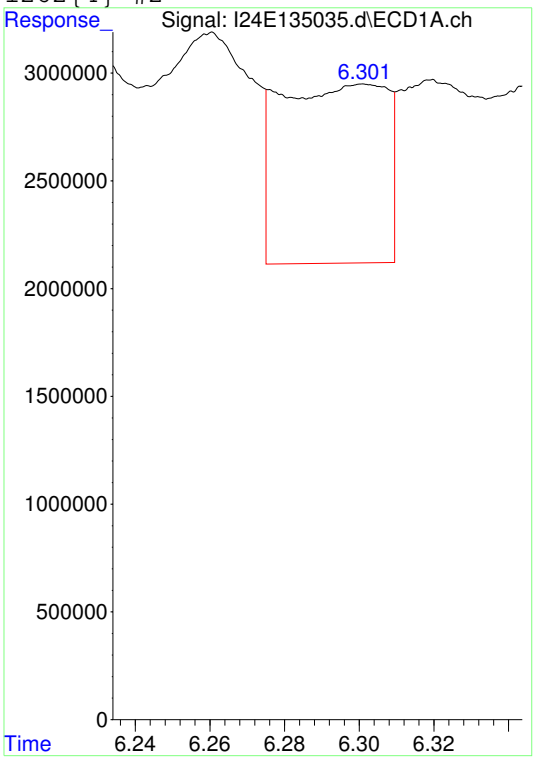
Manual Integration
1262{3} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135035.d
Acq On : 14 May 2024 7:30 pm
Operator : PJG
Sample : 24E1437-04@4X TBA
Misc :

Quant Time : Wed May 15 08:24:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1262{4} #2



Original Int. Results

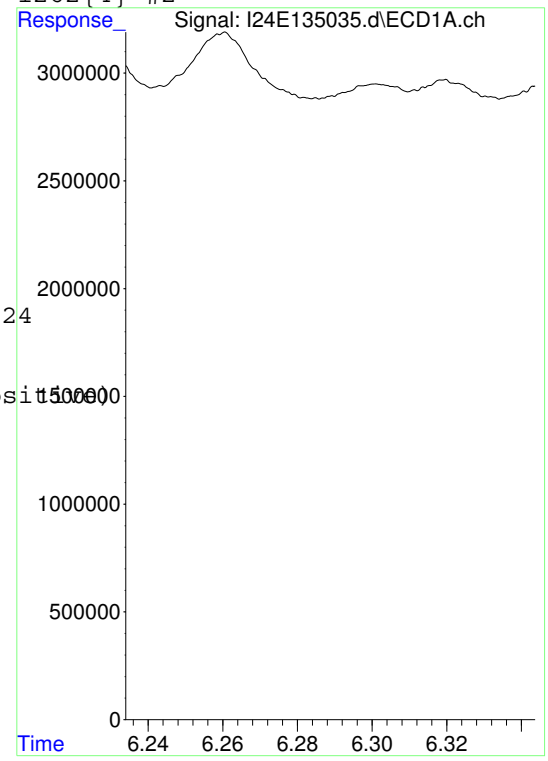
RT : 6.29
Area : 5.81361e+006
Amount: 1.71252

Manual Int. Results

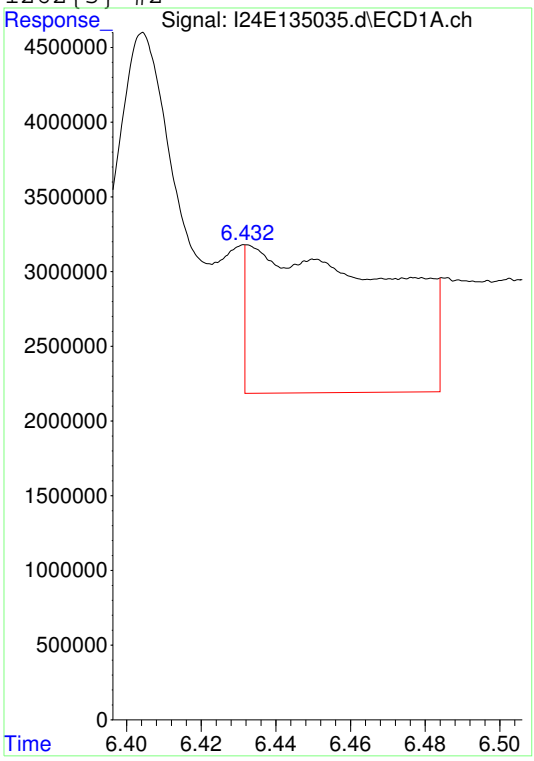
Wed May 15 08:23:53 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1262{4} #2



Original Integration
1262{5} #2



Original Int. Results

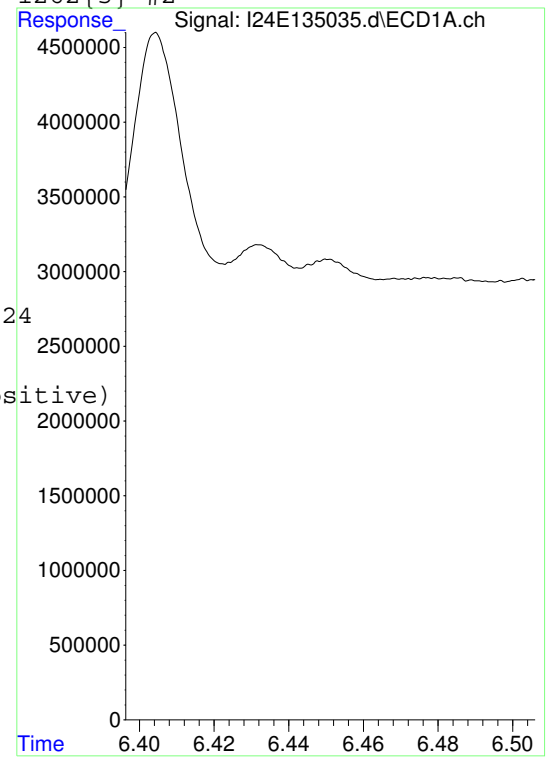
RT : 6.45
Area : 1.44301e+007
Amount: 2.00564

Manual Int. Results

Wed May 15 08:23:52 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1262{5} #2



1 - FORM I
ANALYSIS DATA SHEET

SB1A

Laboratory:	Pace New England			SDG:	24E1437
Client:	NYS Division of Environmental Rer			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-06	File ID:	I24E135036.d
Sampled:	05/08/24 14:19	Prepared:	05/10/24 15:04	Analyzed:	05/14/24 19:47
Solids:	72.51	Preparation:	SW-846 3546	Dilution:	4
Batch:	B374045	Sequence:	S104539	Calibration:	2400478
Instrument:	ECD 9				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.026	0.10	
11104-28-2	Aroclor-1221		0.048	0.10	
11141-16-5	Aroclor-1232		0.025	0.10	
53469-21-9	Aroclor-1242		0.029	0.10	
12672-29-6	Aroclor-1248		0.025	0.10	
11097-69-1	Aroclor-1254		0.031	0.10	
11096-82-5	Aroclor-1260		0.022	0.10	
37324-23-5	Aroclor-1262		0.027	0.10	
11100-14-4	Aroclor-1268		0.027	0.10	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : I24E135036.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 7:47 pm
Operator : PJG
Sample : 24E1437-06@4X TBA Inst : ECD 9
Misc :
ALS Vial : 36 Sample Multiplier: 1

3112

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 15 08:25:40 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Tetrachlo...	3.071	2.995	2737.2E6	2534.6E6	41.677	43.809
2) S Decachlor...	7.208	7.313	2271.6E6	2048.7E6	40.924	41.135
Target Compounds						
3) L1 1016{1}	0.000	0.000	0	0	N.D. d	N.D. d
4) L1 1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1 1016{3}	0.000	0.000	0	0	N.D. d	N.D. d
6) L1 1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1 1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1016			0	0	N.D.	N.D.
Average 1016					0.000	0.000
8) L7 1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9) L7 1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7 1260{3}	0.000	0.000	0	0	N.D. d	N.D. d
11) L7 1260{4}	0.000	0.000	0	0	N.D. d	N.D. d
12) L7 1260{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1260			0	0	N.D.	N.D.
Average 1260					0.000	0.000
13) L6 1254{1}	4.785	4.872	2068975	1157659	0.691	0.439 #
14) L6 1254{2}	5.226	5.024	4739311	2131886	1.446	0.702 #
15) L6 1254{3}	5.324	5.304	3639931	1126384	0.679	0.461 #
16) L6 1254{4}	5.552	5.398	4775401	8943364	1.150	2.066 #
17) L6 1254{5}	5.930	6.014	15429200	12089332	2.788	2.525
Sum 1254			30652819	25448626	6.753	6.193
Average 1254					1.351	1.239
18) L5 1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5 1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5 1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5 1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5 1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248			0	0	N.D.	N.D.
Average 1248					0.000	0.000
23) L4 1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4 1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4 1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4 1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4 1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242			0	0	N.D.	N.D.
Average 1242					0.000	0.000
28) L3 1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3 1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3 1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3 1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\051424\
Data File : I24E135036.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 7:47 pm
Operator : PJG
Sample : 24E1437-06@4X TBA Inst : ECD 9
Misc :
ALS Vial : 36 Sample Multiplier: 1

3113

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 15 08:25:40 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32) L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232			0	0	N.D.	N.D.
Average 1232					0.000	0.000
33) L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34) L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35) L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36) L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37) L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268			0	0	N.D.	N.D.
Average 1268					0.000	0.000
38) L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39) L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40) L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221			0	0	N.D.	N.D.
Average 1221					0.000	0.000
41) L8 1262{1}	0.000	0.000	0	0	N.D. d	N.D. d
42) L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43) L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44) L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45) L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262			0	0	N.D.	N.D.
Average 1262					0.000	0.000

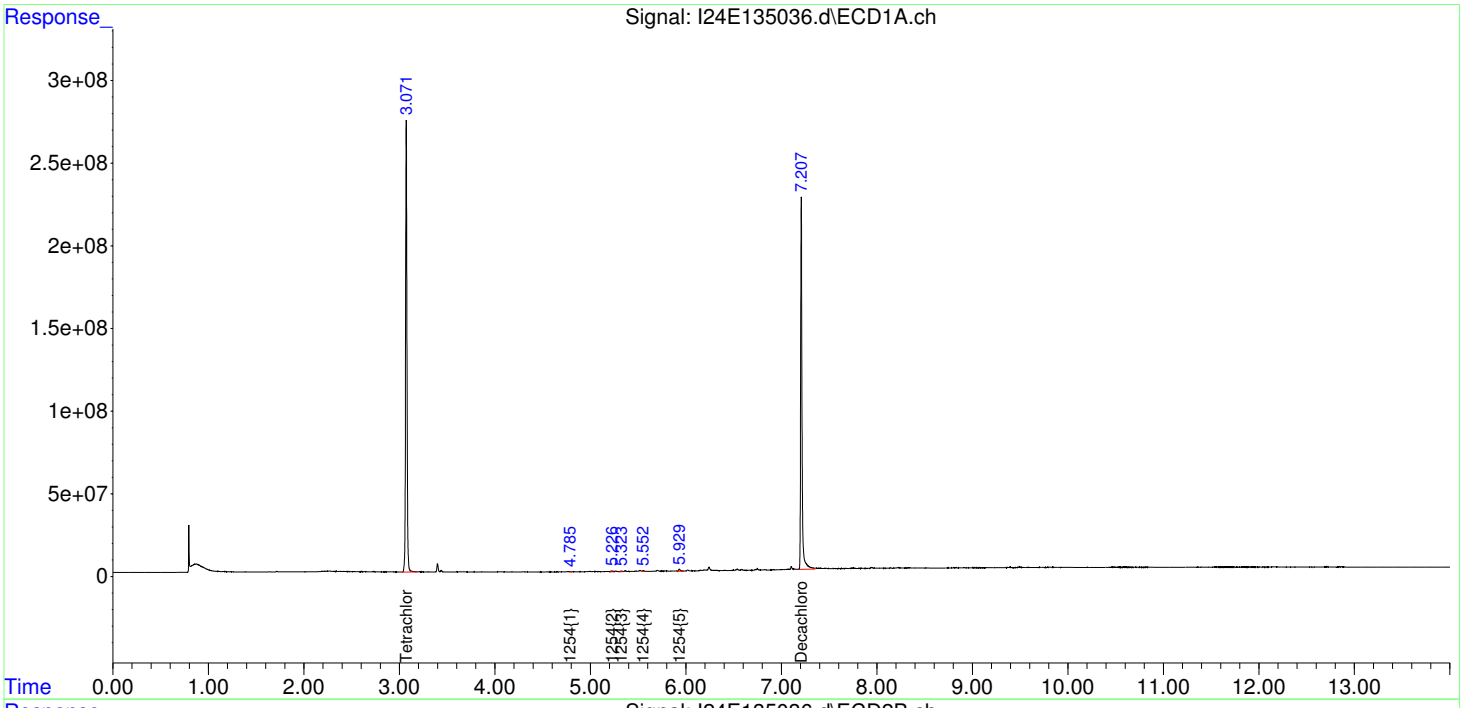
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

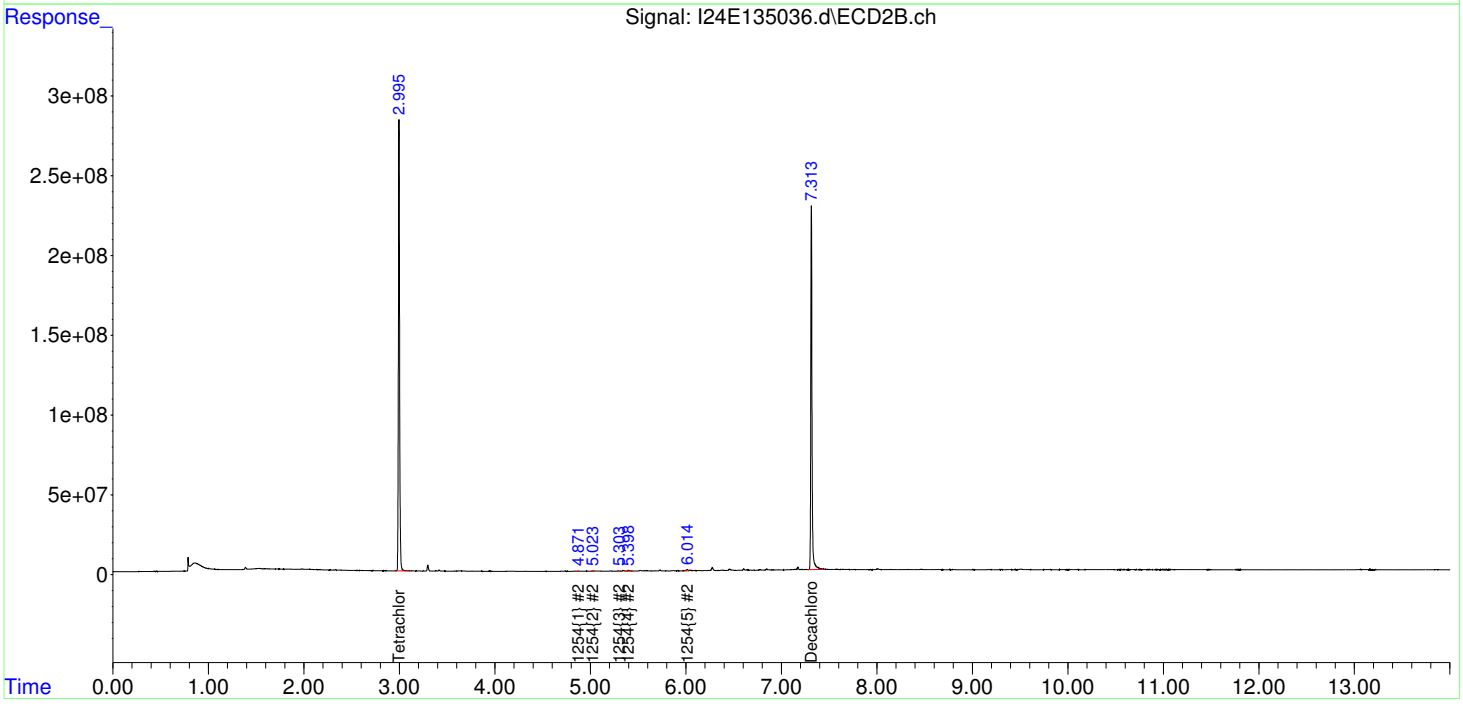
Data Path : C:\msdchem\1\data\051424\
Data File : I24E135036.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 7:47 pm
Operator : PJG
Sample : 24E1437-06@4X TBA Inst : ECD 9
Misc :
ALS Vial : 36 Sample Multiplier: 1

3114

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 15 08:25:40 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

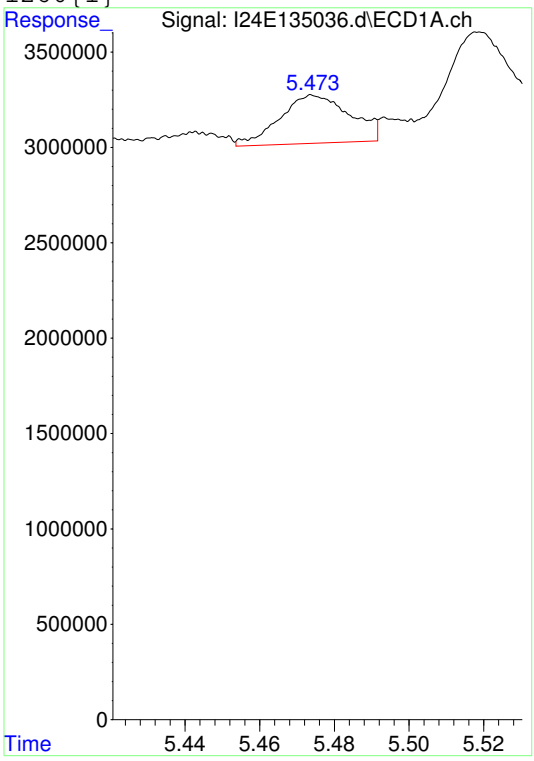




Data Path : C:\msdchem\1\data\051424\
Data File : I24E135036.d
Acq On : 14 May 2024 7:47 pm
Operator : PJG
Sample : 24E1437-06@4X TBA
Misc :

Quant Time : Wed May 15 08:25:40 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1260{1}



Original Int. Results

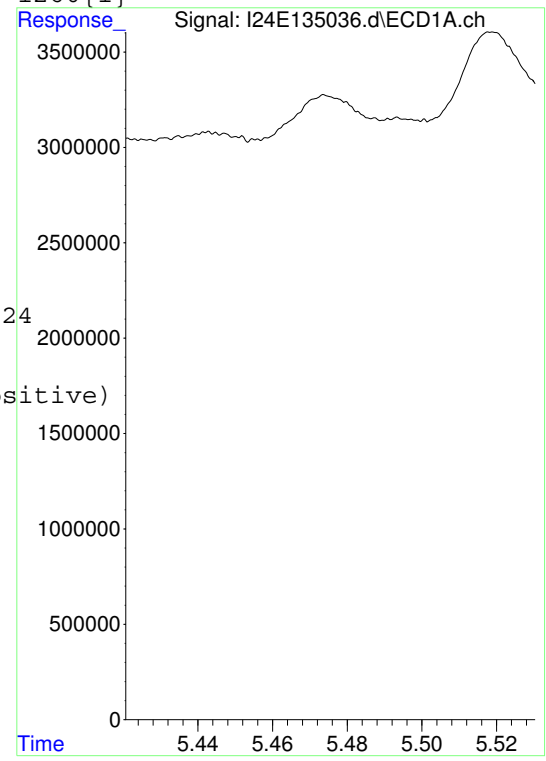
RT : 5.47
Area : 3.28093e+006
Amount: 0.782742

Manual Int. Results

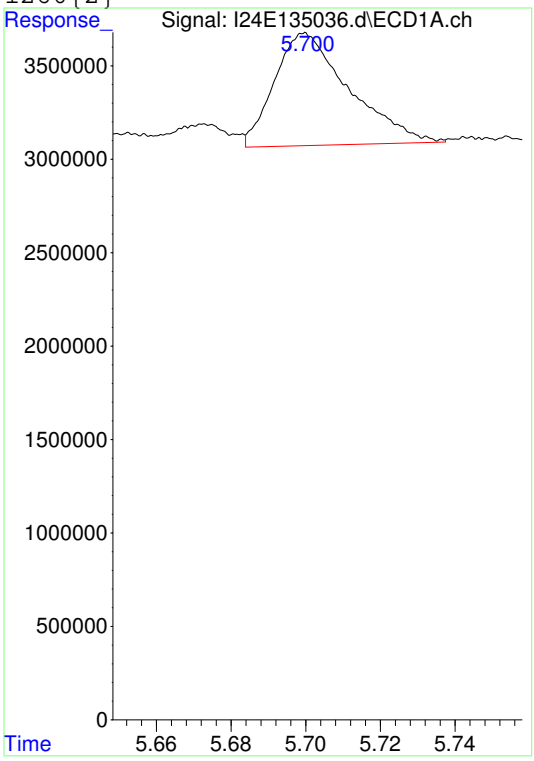
Wed May 15 08:25:39 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1260{1}



Original Integration
1260{2}



Original Int. Results

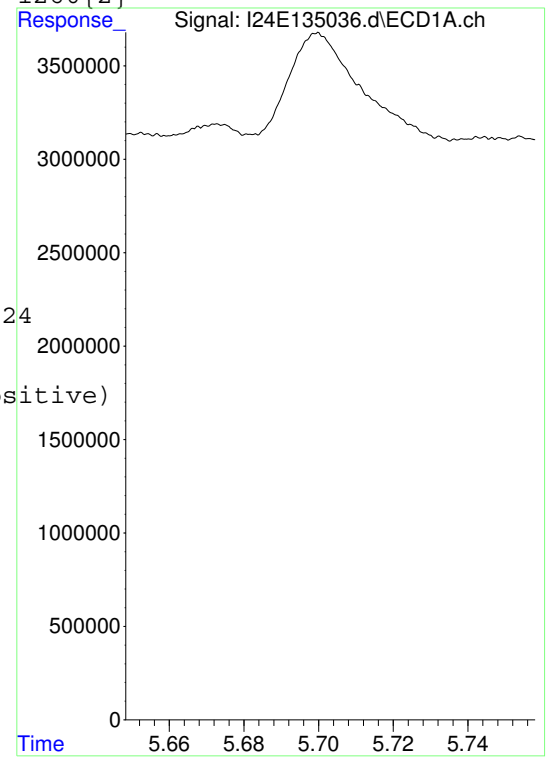
RT : 5.70
Area : 8.35829e+006
Amount: 1.34501

Manual Int. Results

Wed May 15 08:25:39 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

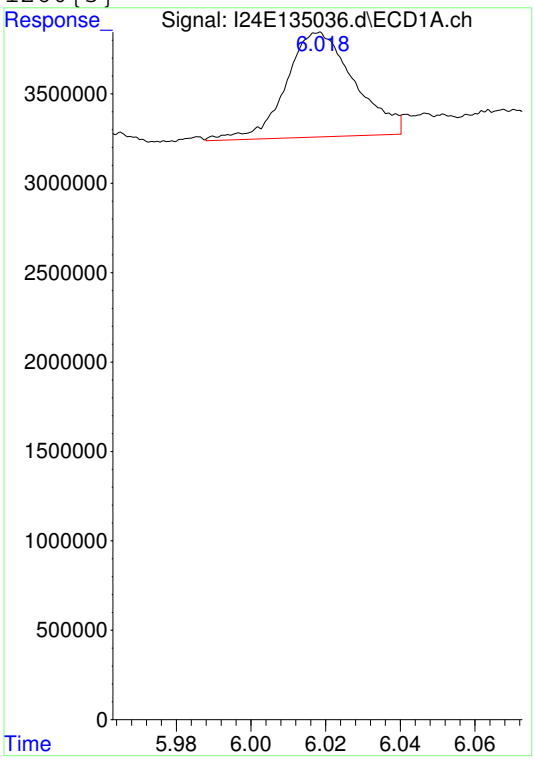
Manual Integration
1260{2}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135036.d
Acq On : 14 May 2024 7:47 pm
Operator : PJG
Sample : 24E1437-06@4X TBA
Misc :

Quant Time : Wed May 15 08:25:40 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1260{3}



Original Int. Results

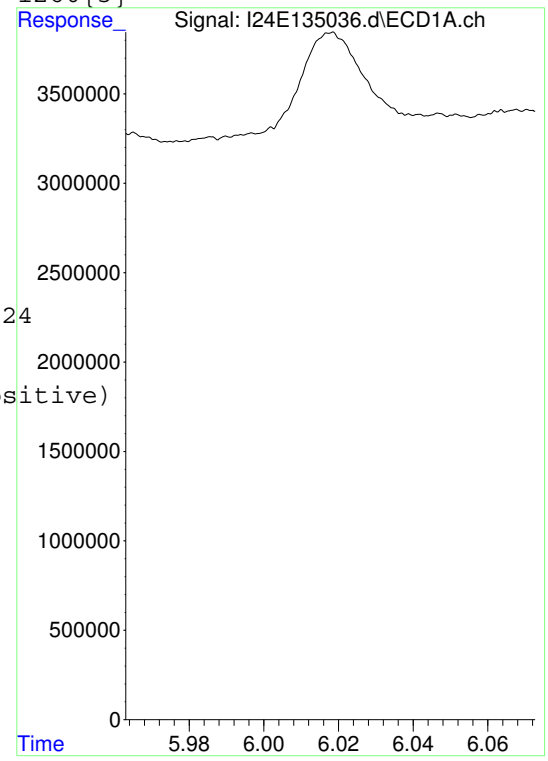
RT : 6.02
Area : 7.41328e+006
Amount: 1.85859

Manual Int. Results

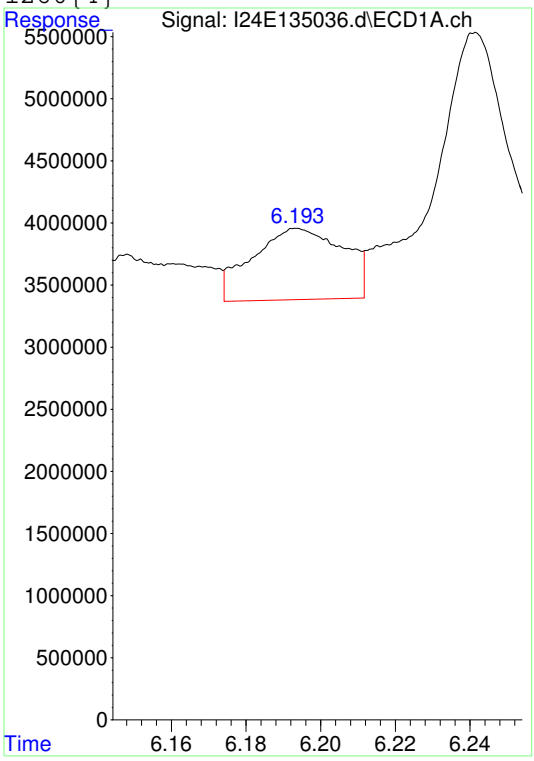
Wed May 15 08:25:39 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1260{3}



Original Integration
1260{4}



Original Int. Results

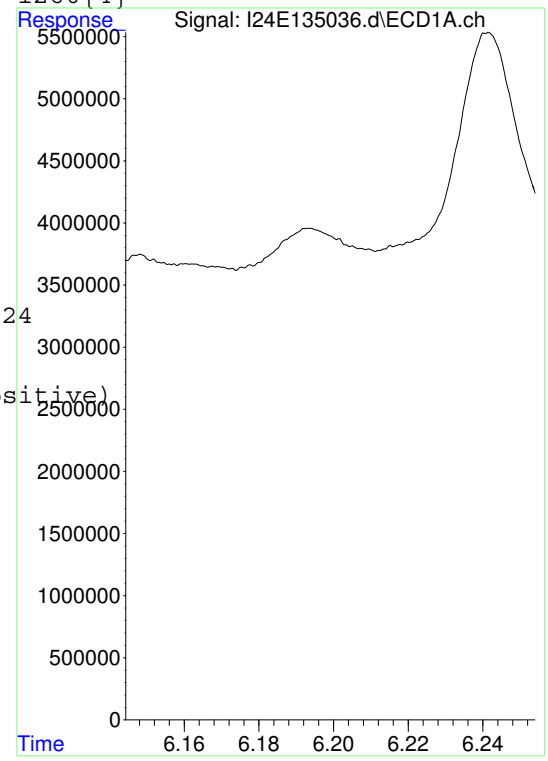
RT : 6.19
Area : 9.72412e+006
Amount: 2.41299

Manual Int. Results

Wed May 15 08:25:39 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

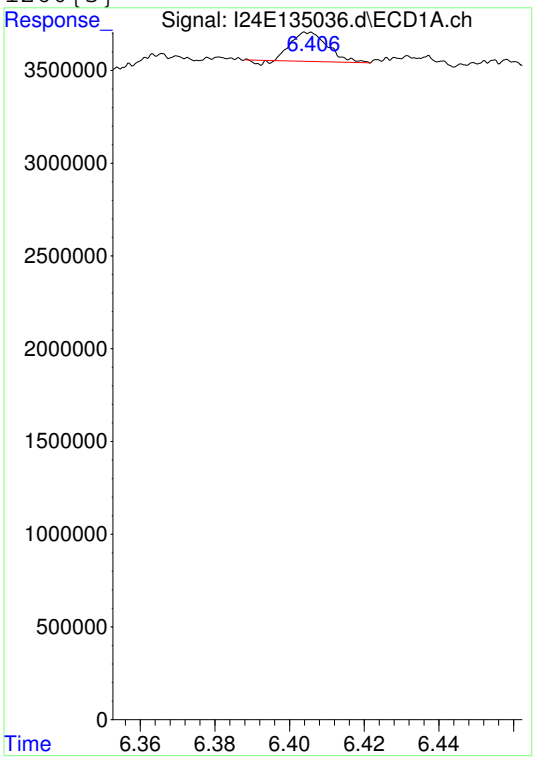
Manual Integration
1260{4}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135036.d
Acq On : 14 May 2024 7:47 pm
Operator : PJG
Sample : 24E1437-06@4X TBA
Misc :

Quant Time : Wed May 15 08:25:40 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1260{5}



Original Int. Results

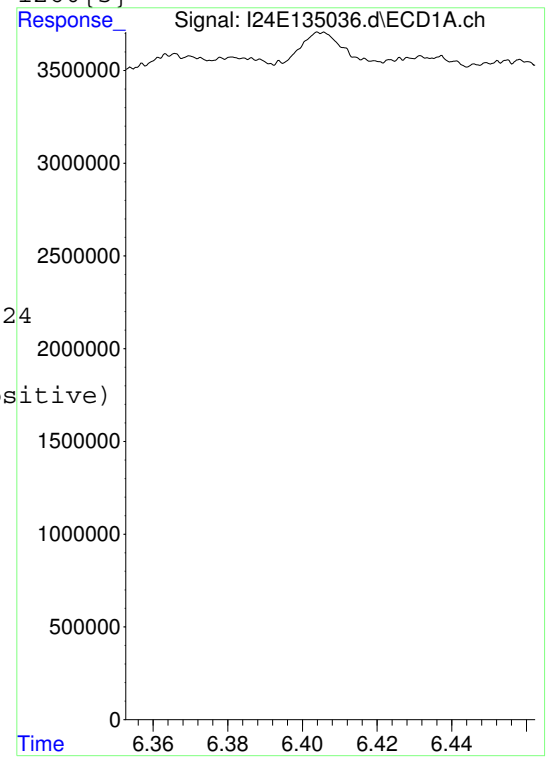
RT : 6.40
Area : 1.01832e+006
Amount: 0.12052

Manual Int. Results

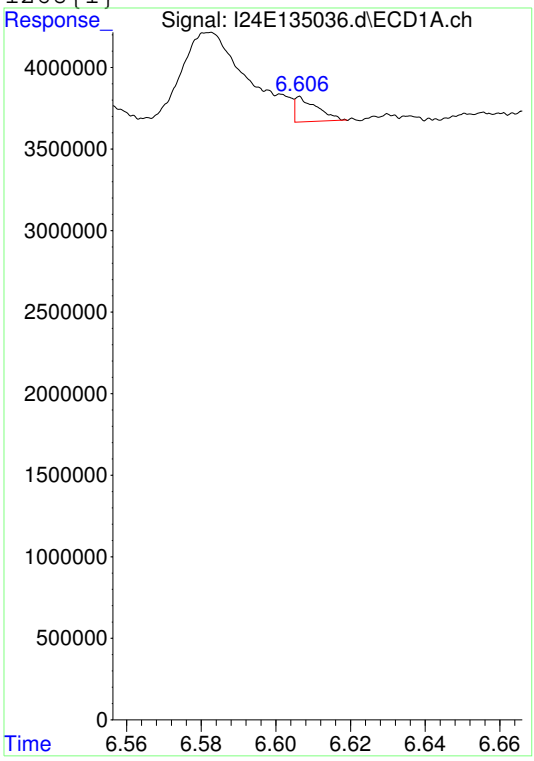
Wed May 15 08:25:39 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1260{5}



Original Integration
1268{1}



Original Int. Results

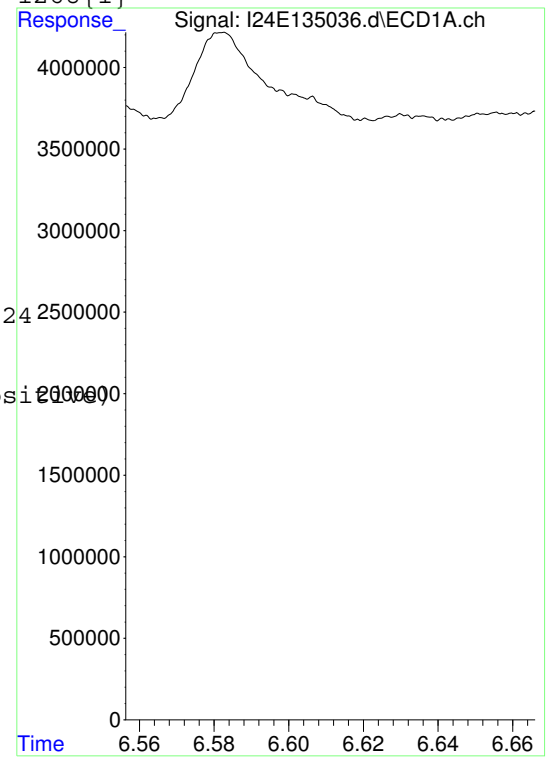
RT : 6.61
Area : 634502
Amount: 0.0603391

Manual Int. Results

Wed May 15 08:25:36 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

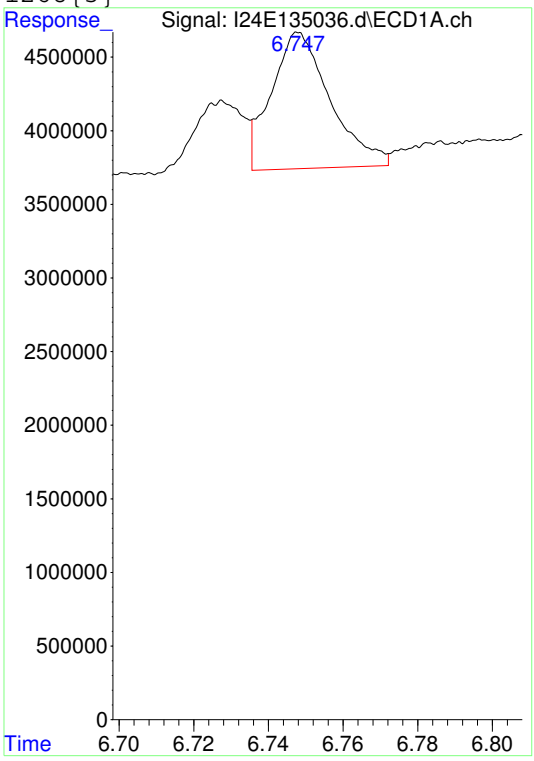
Manual Integration
1268{1}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135036.d
Acq On : 14 May 2024 7:47 pm
Operator : PJG
Sample : 24E1437-06@4X TBA
Misc :

Quant Time : Wed May 15 08:25:40 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1268{3}



Original Int. Results

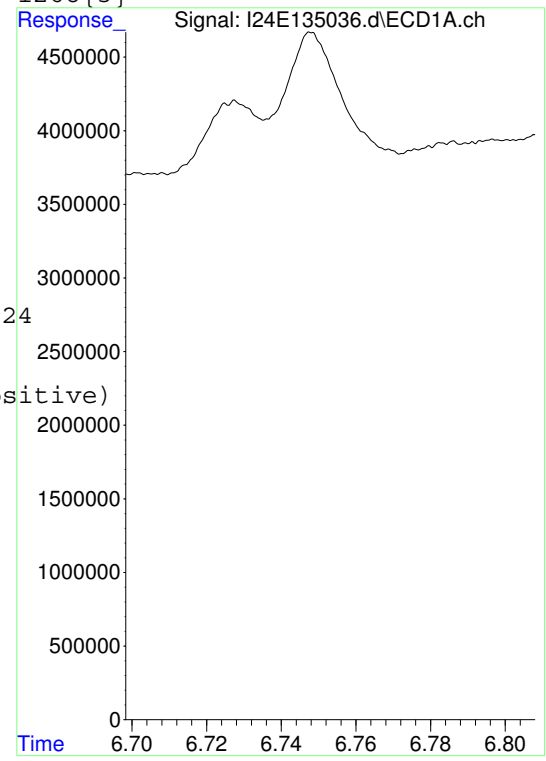
RT : 6.75
Area : 1.01836e+007
Amount: 1.05926

Manual Int. Results

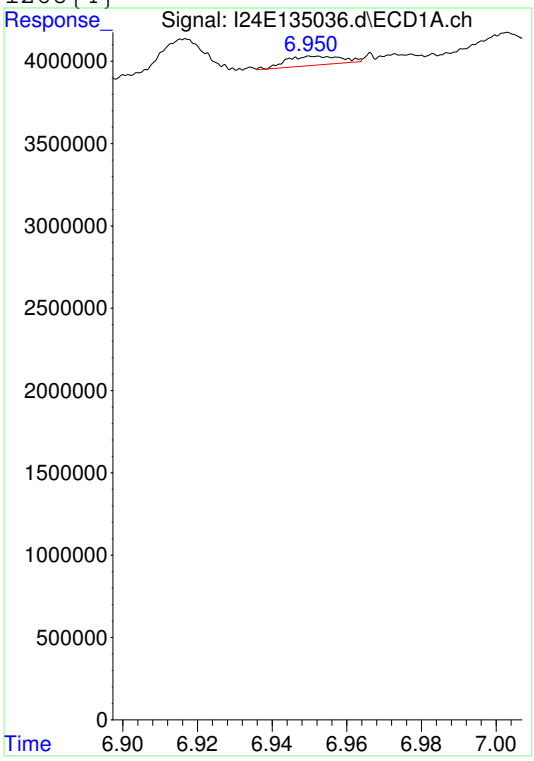
Wed May 15 08:25:35 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1268{3}



Original Integration
1268{4}



Original Int. Results

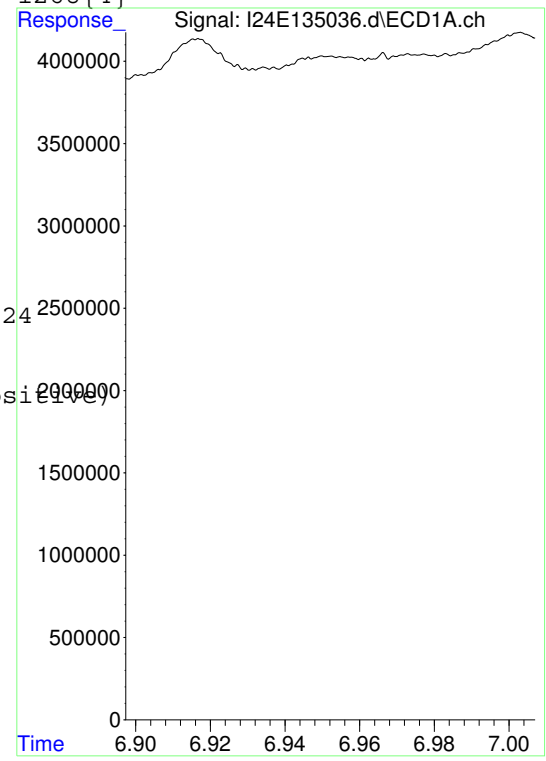
RT : 6.95
Area : 554097
Amount: 0.189432

Manual Int. Results

Wed May 15 08:25:35 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

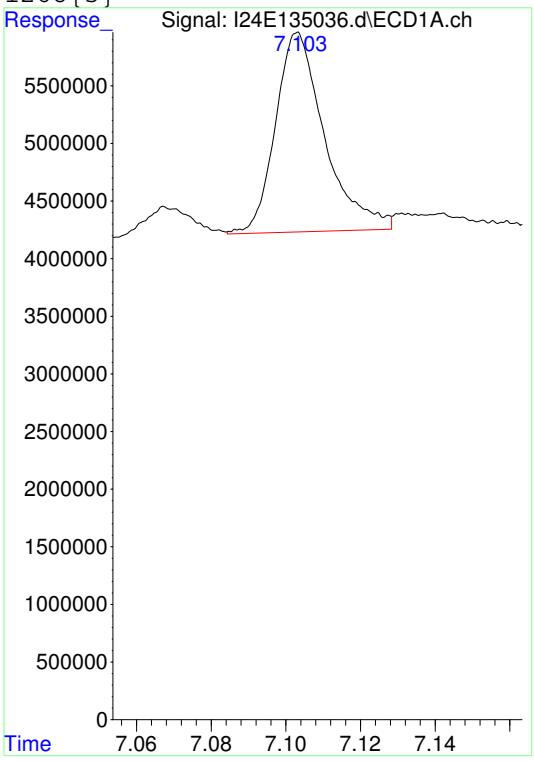
Manual Integration
1268{4}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135036.d
Acq On : 14 May 2024 7:47 pm
Operator : PJG
Sample : 24E1437-06@4X TBA
Misc :

Quant Time : Wed May 15 08:25:40 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1268{5}



Original Int. Results

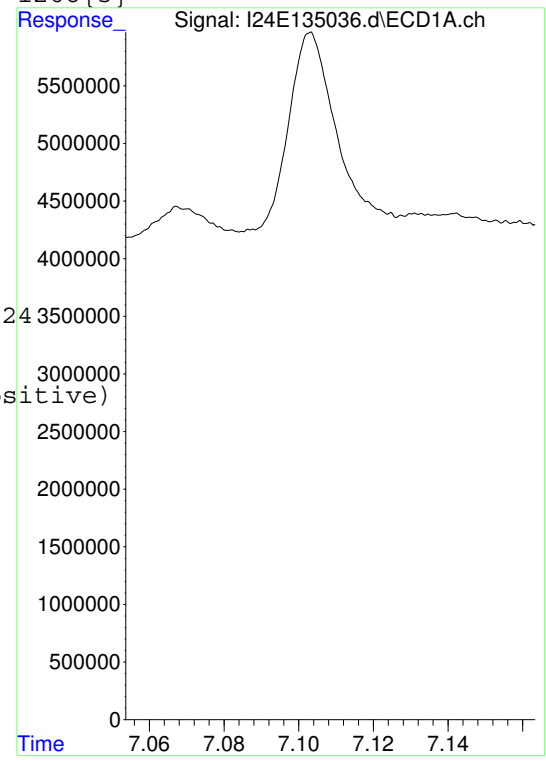
RT : 7.10
Area : 1.57848e+007
Amount: 0.63864

Manual Int. Results

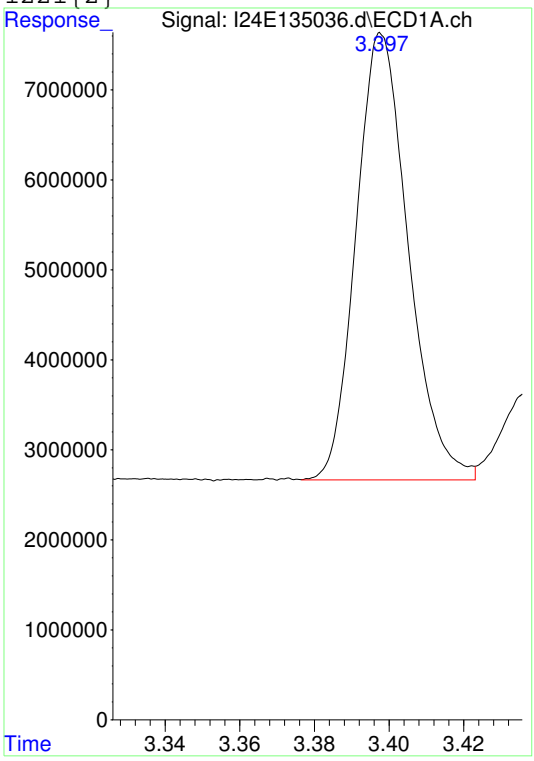
Wed May 15 08:25:35 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1268{5}



Original Integration
1221{2}



Original Int. Results

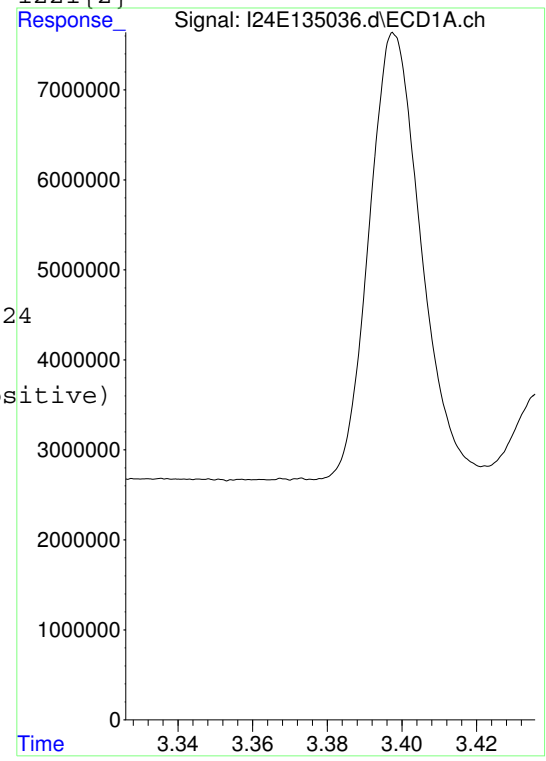
RT : 3.40
Area : 4.8197e+007
Amount: 23.3215

Manual Int. Results

Wed May 15 08:25:34 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

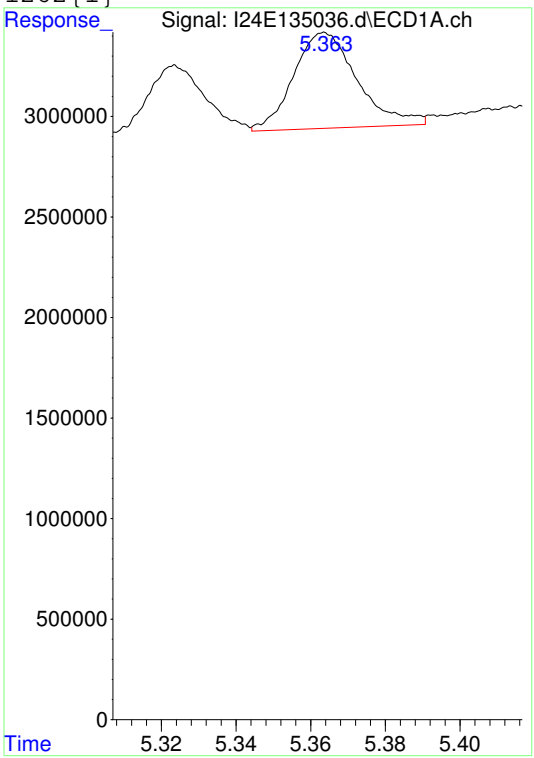
Manual Integration
1221{2}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135036.d
Acq On : 14 May 2024 7:47 pm
Operator : PJG
Sample : 24E1437-06@4X TBA
Misc :

Quant Time : Wed May 15 08:25:40 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1262{1}



Original Int. Results

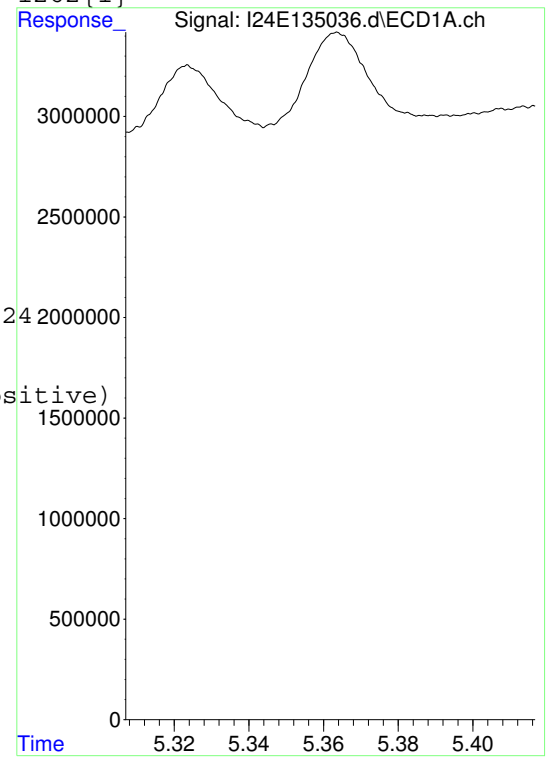
RT : 5.36
Area : 5.60782e+006
Amount: 2.76058

Manual Int. Results

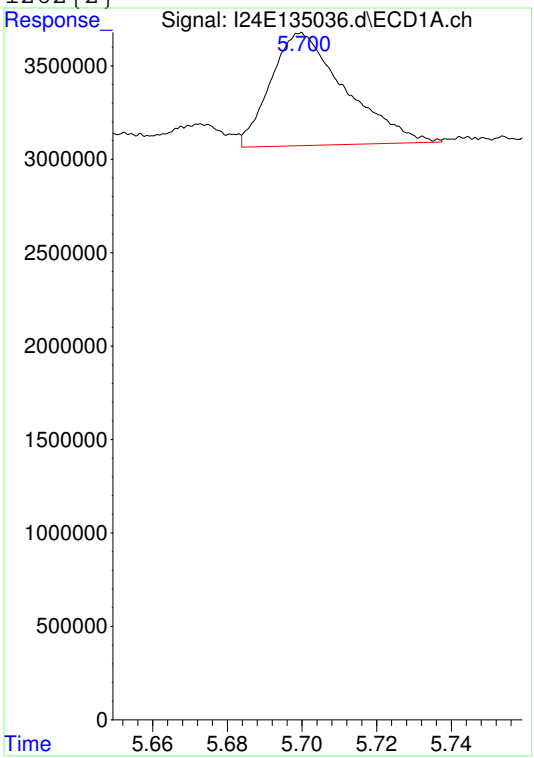
Wed May 15 08:25:34 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1262{1}



Original Integration
1262{2}



Original Int. Results

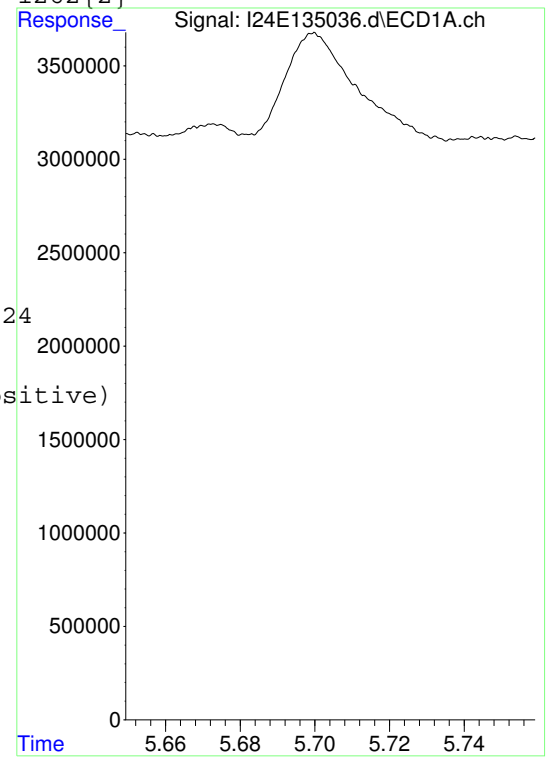
RT : 5.70
Area : 8.35829e+006
Amount: 1.78808

Manual Int. Results

Wed May 15 08:25:34 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

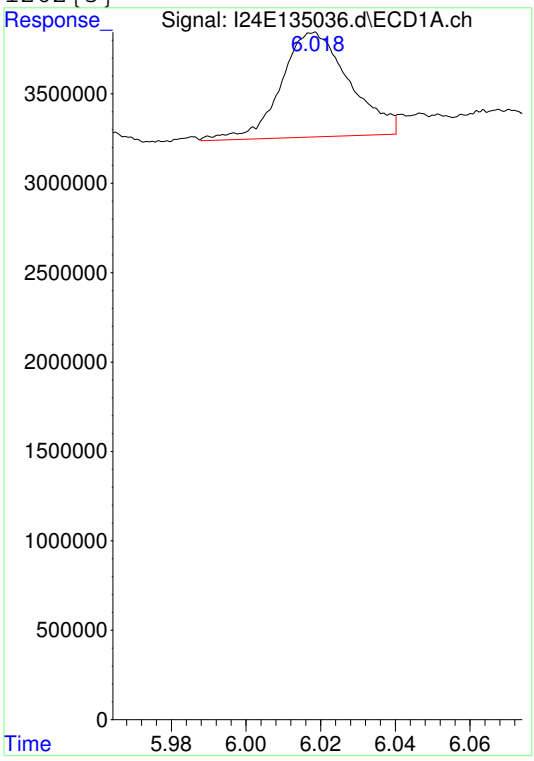
Manual Integration
1262{2}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135036.d
Acq On : 14 May 2024 7:47 pm
Operator : PJG
Sample : 24E1437-06@4X TBA
Misc :

Quant Time : Wed May 15 08:25:40 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1262{3}



Original Int. Results

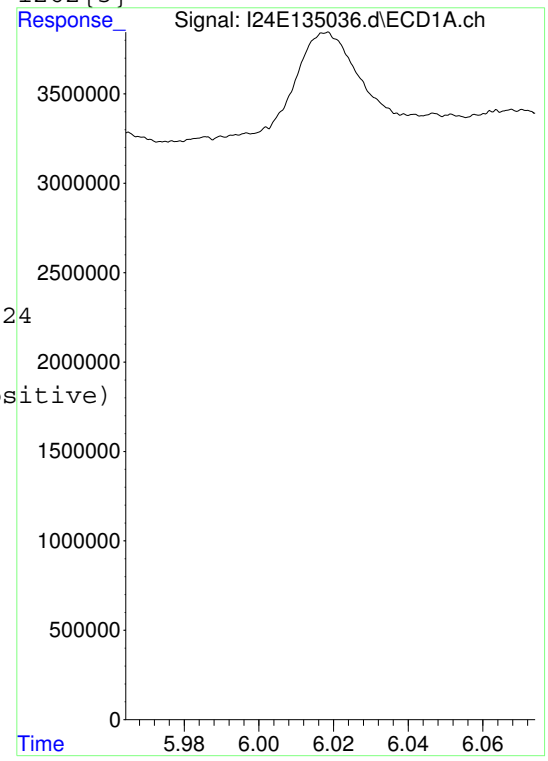
RT : 6.02
Area : 7.41328e+006
Amount: 1.49731

Manual Int. Results

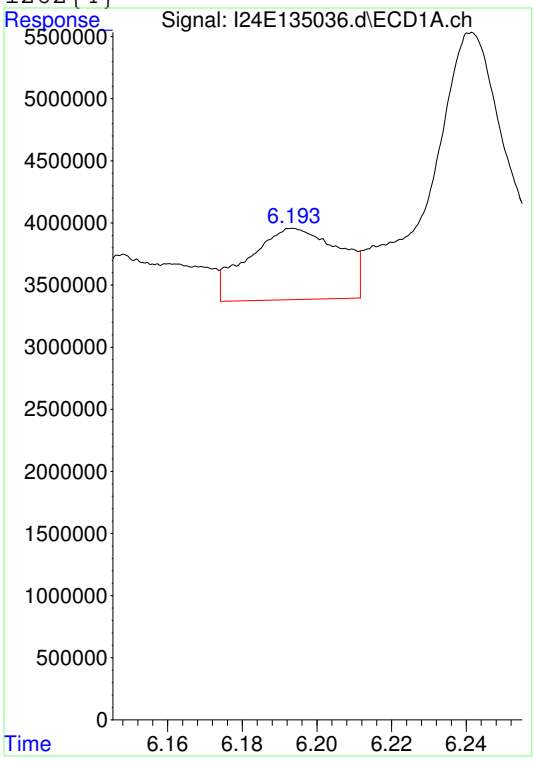
Wed May 15 08:25:34 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1262{3}



Original Integration
1262{4}



Original Int. Results

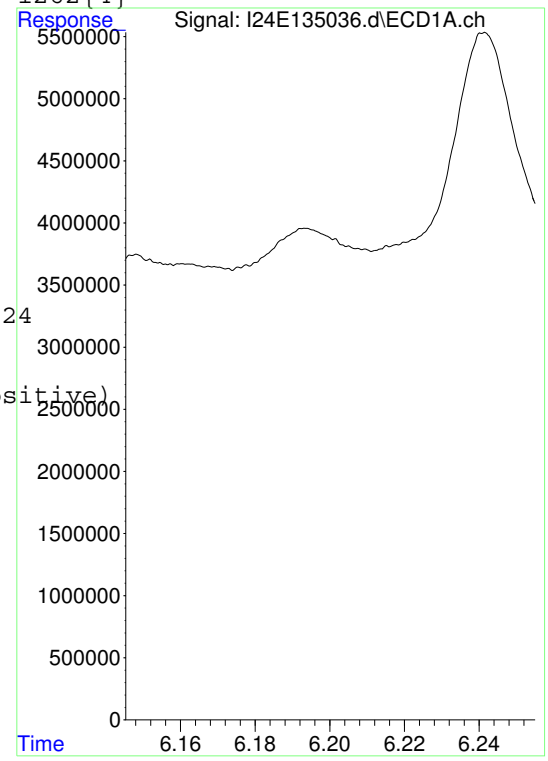
RT : 6.19
Area : 9.72412e+006
Amount: 2.14984

Manual Int. Results

Wed May 15 08:25:33 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

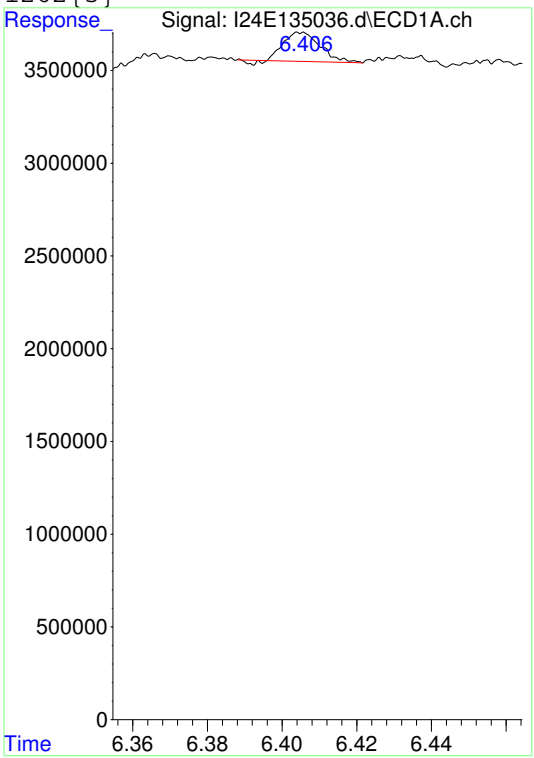
Manual Integration
1262{4}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135036.d
Acq On : 14 May 2024 7:47 pm
Operator : PJG
Sample : 24E1437-06@4X TBA
Misc :

Quant Time : Wed May 15 08:25:40 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1262{5}



Original Int. Results

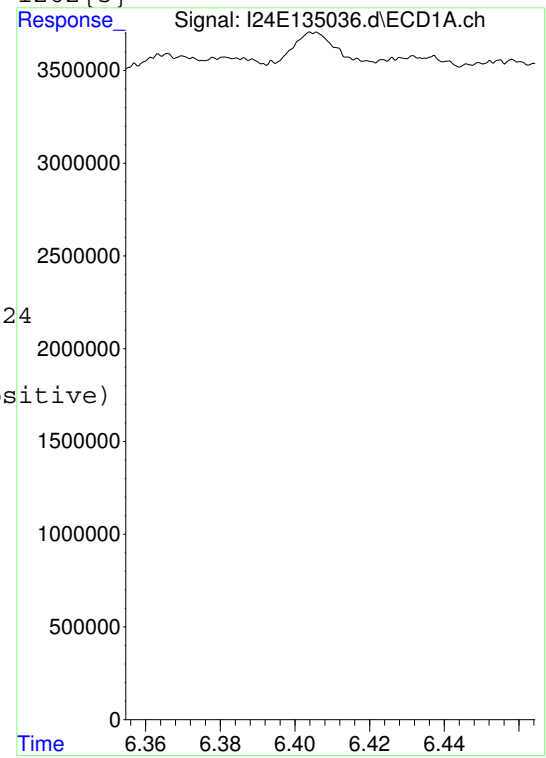
RT : 6.40
Area : 1.01832e+006
Amount: 0.101058

Manual Int. Results

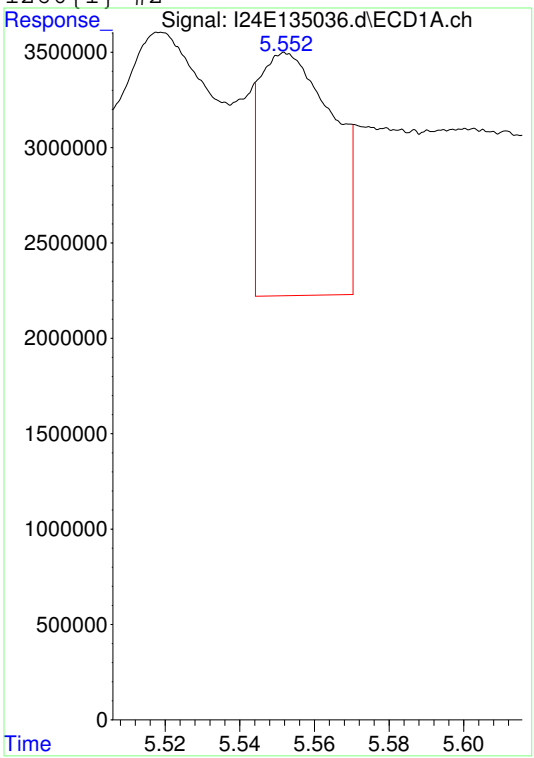
Wed May 15 08:25:32 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1262{5}



Original Integration
1260{1} #2



Original Int. Results

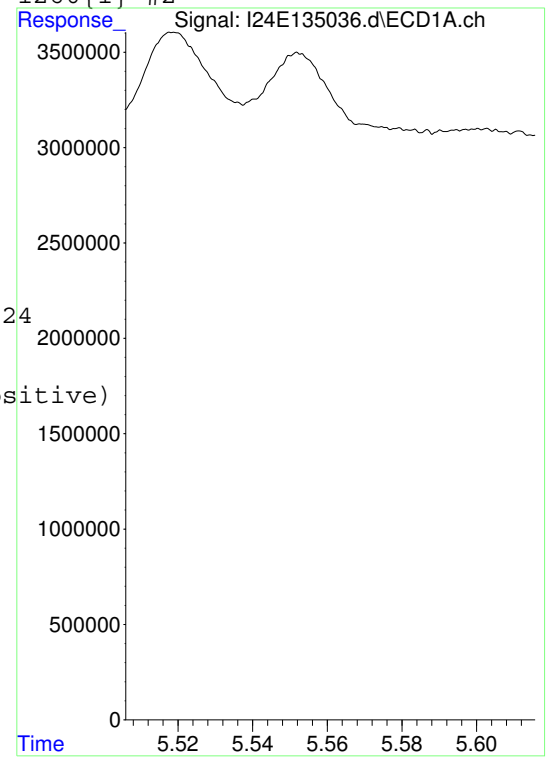
RT : 5.56
Area : 2.64869e+006
Amount: 0.767402

Manual Int. Results

Wed May 15 08:25:39 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

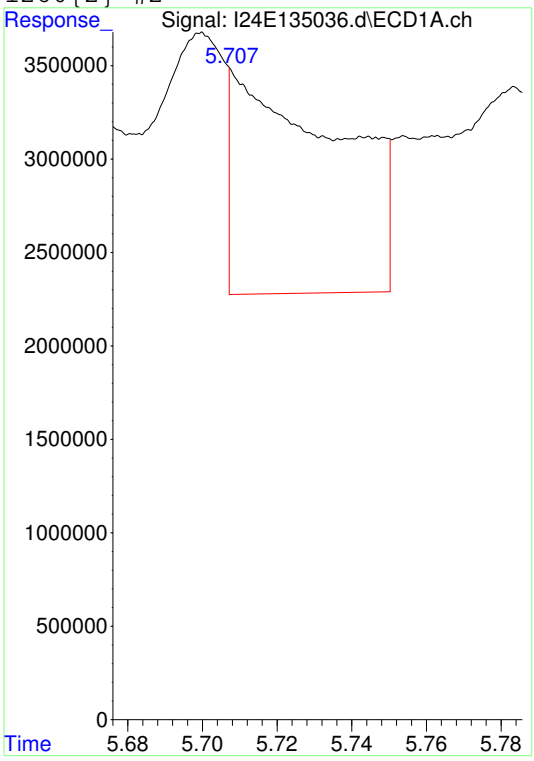
Manual Integration
1260{1} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135036.d
Acq On : 14 May 2024 7:47 pm
Operator : PJG
Sample : 24E1437-06@4X TBA
Misc :

Quant Time : Wed May 15 08:25:40 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1260{2} #2



Original Int. Results

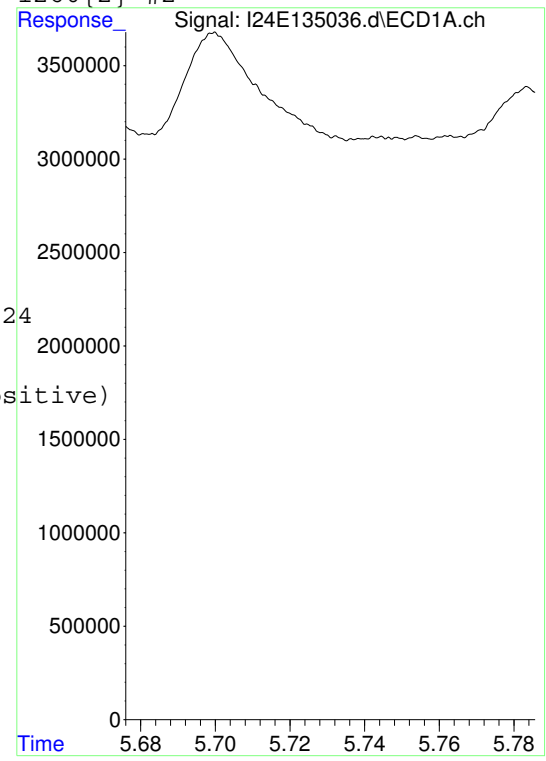
RT : 5.73
Area : 5.92495e+006
Amount: 1.46961

Manual Int. Results

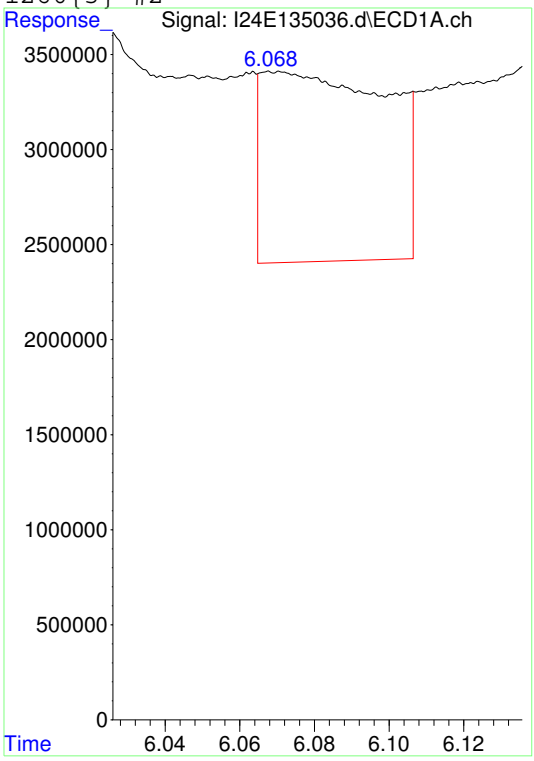
Wed May 15 08:25:39 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1260{2} #2



Original Integration
1260{3} #2



Original Int. Results

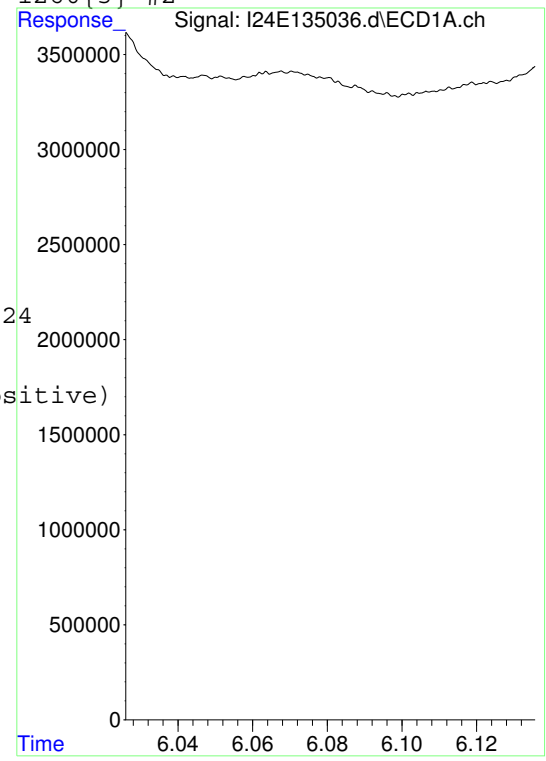
RT : 6.08
Area : 2.71903e+006
Amount: 0.899277

Manual Int. Results

Wed May 15 08:25:39 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

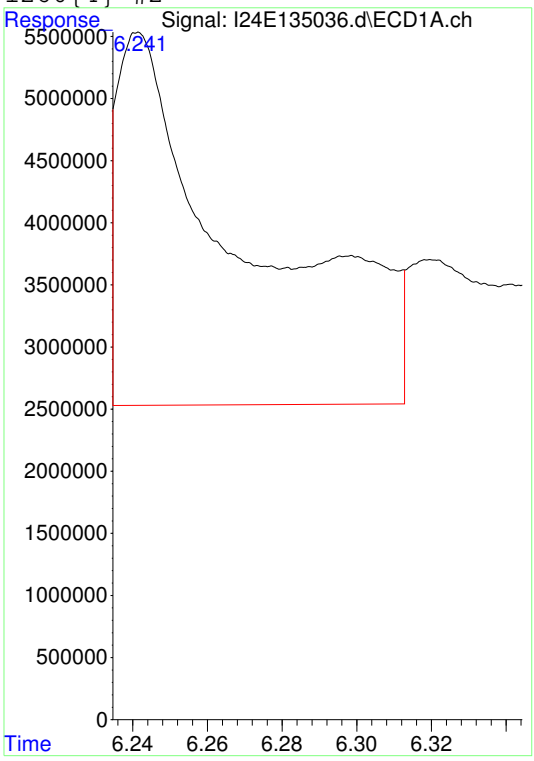
Manual Integration
1260{3} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135036.d
Acq On : 14 May 2024 7:47 pm
Operator : PJG
Sample : 24E1437-06@4X TBA
Misc :

Quant Time : Wed May 15 08:25:40 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1260{4} #2



Original Int. Results

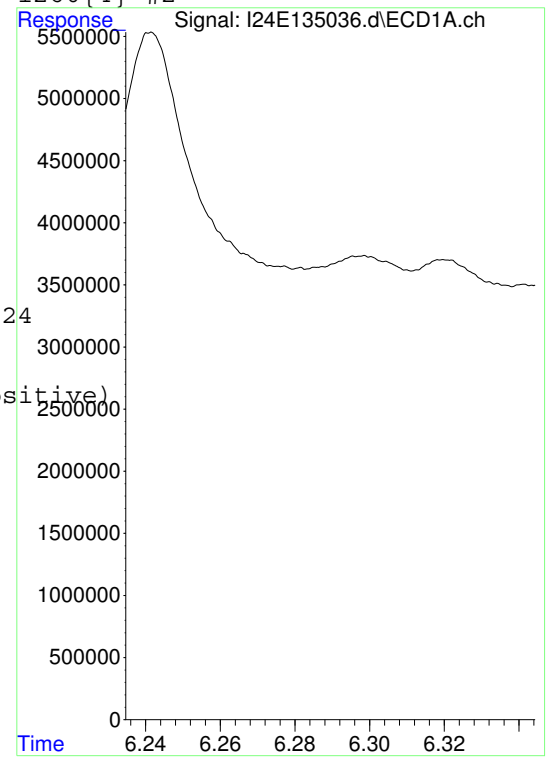
RT : 6.28
Area : 2.40262e+007
Amount: 7.03911

Manual Int. Results

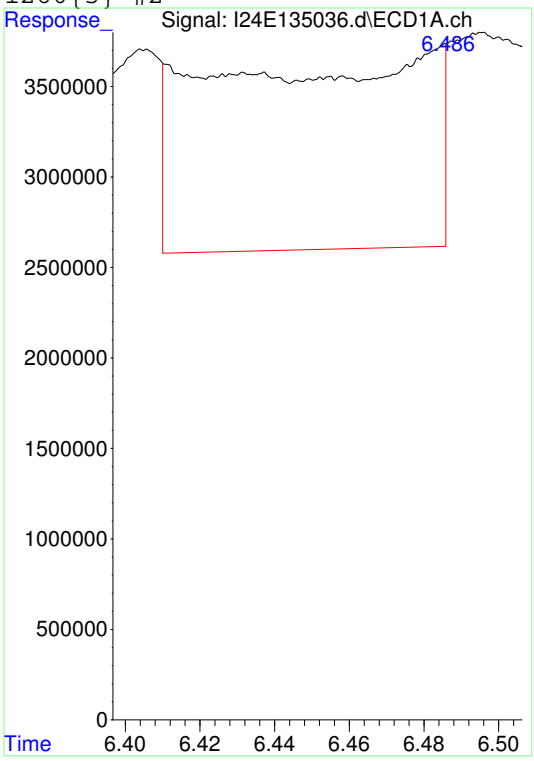
Wed May 15 08:25:39 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1260{4} #2



Original Integration
1260{5} #2



Original Int. Results

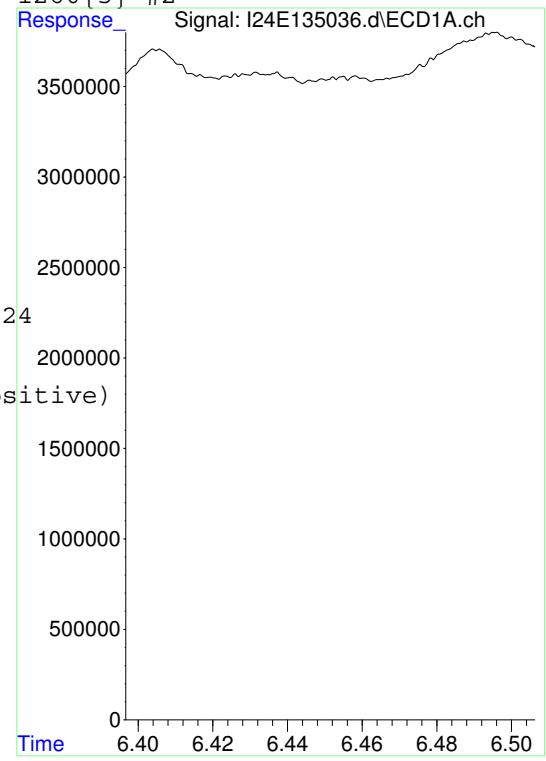
RT : 6.46
Area : 1.22853e+007
Amount: 1.70385

Manual Int. Results

Wed May 15 08:25:39 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

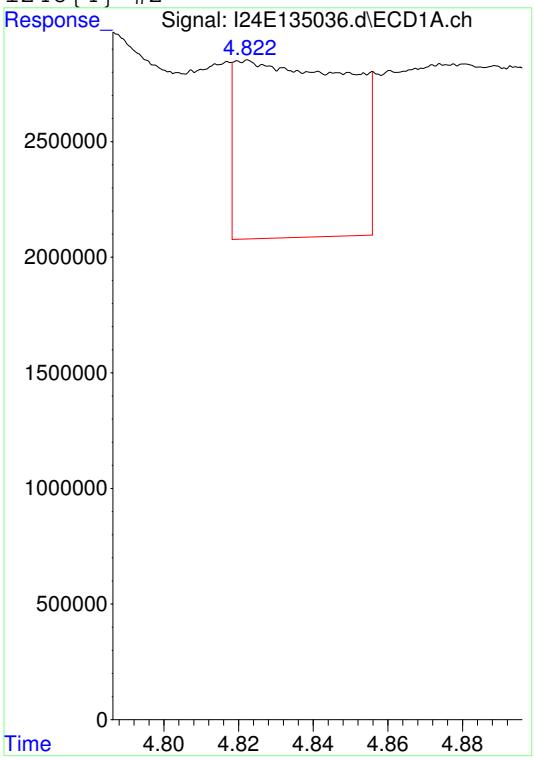
Manual Integration
1260{5} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135036.d
Acq On : 14 May 2024 7:47 pm
Operator : PJG
Sample : 24E1437-06@4X TBA
Misc :

Quant Time : Wed May 15 08:25:40 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1248{4} #2



Original Int. Results

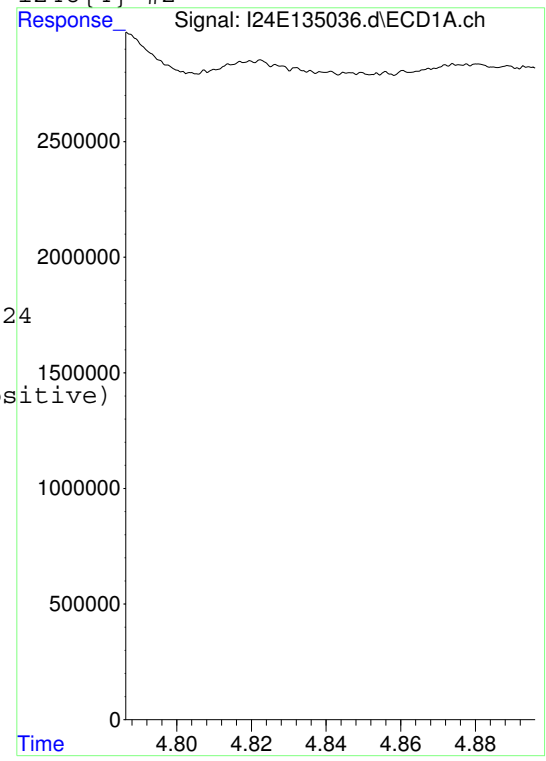
RT : 4.84
Area : 1.0928e+006
Amount: 0.455368

Manual Int. Results

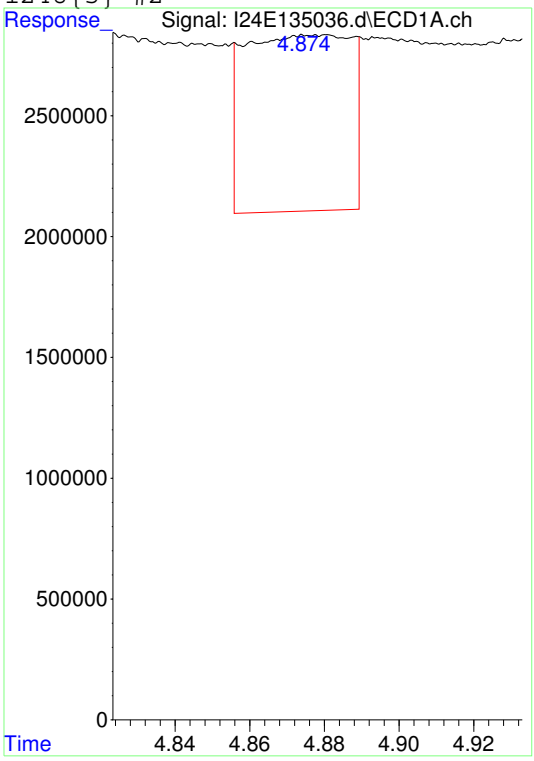
Wed May 15 08:25:38 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1248{4} #2



Original Integration
1248{5} #2



Original Int. Results

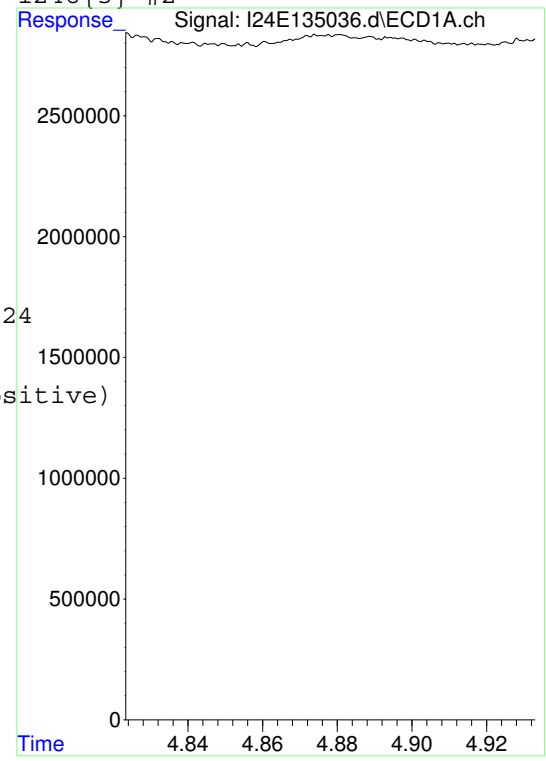
RT : 4.87
Area : 1.15766e+006
Amount: 0.414716

Manual Int. Results

Wed May 15 08:25:38 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

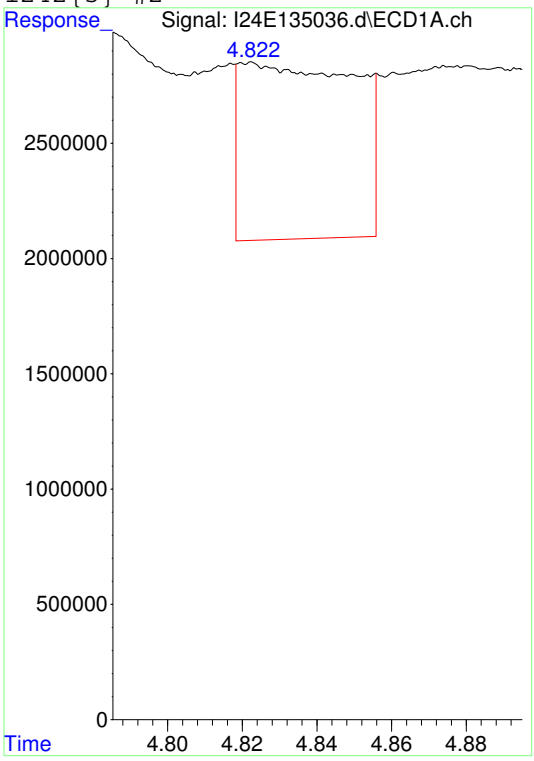
Manual Integration
1248{5} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135036.d
Acq On : 14 May 2024 7:47 pm
Operator : PJG
Sample : 24E1437-06@4X TBA
Misc :

Quant Time : Wed May 15 08:25:40 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1242{5} #2



Original Int. Results

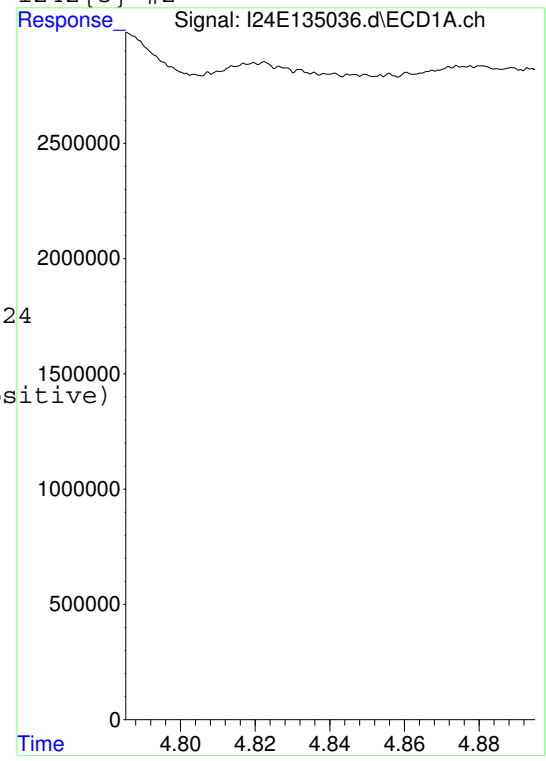
RT : 4.84
Area : 1.0928e+006
Amount: 0.880284

Manual Int. Results

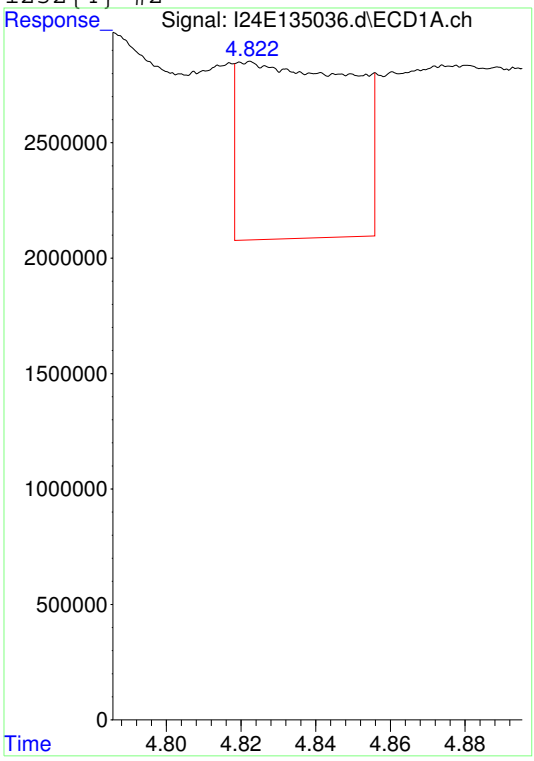
Wed May 15 08:25:37 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1242{5} #2



Original Integration
1232{4} #2



Original Int. Results

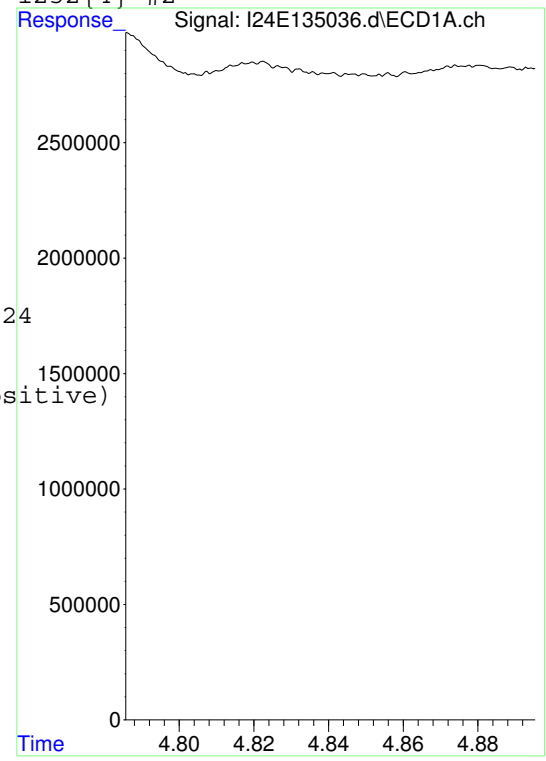
RT : 4.84
Area : 1.0928e+006
Amount: 1.49176

Manual Int. Results

Wed May 15 08:25:36 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

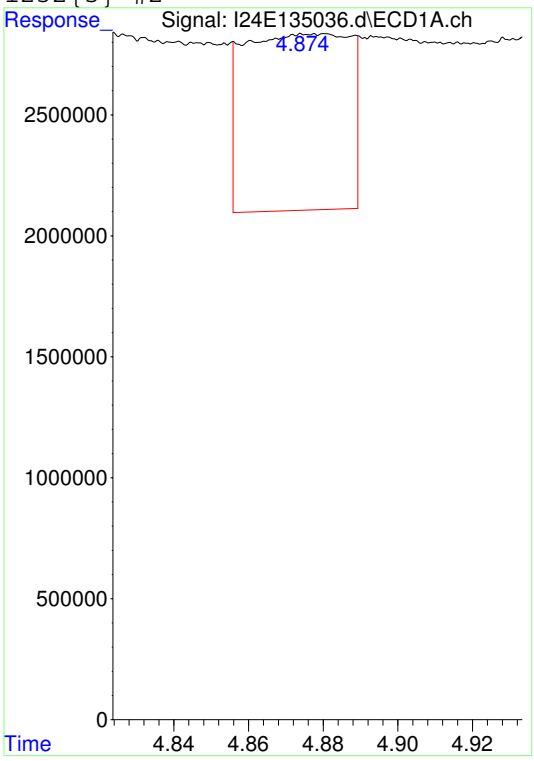
Manual Integration
1232{4} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135036.d
Acq On : 14 May 2024 7:47 pm
Operator : PJG
Sample : 24E1437-06@4X TBA
Misc :

Quant Time : Wed May 15 08:25:40 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1232{5} #2



Original Int. Results

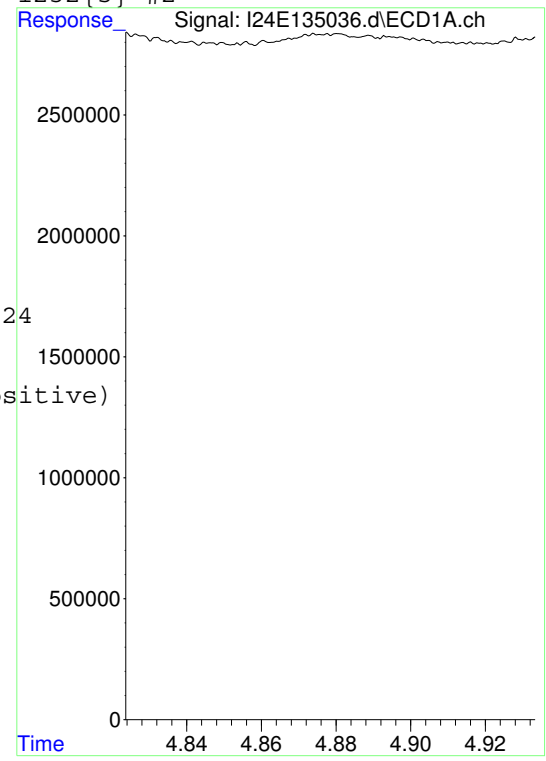
RT : 4.87
Area : 1.15766e+006
Amount: 1.31881

Manual Int. Results

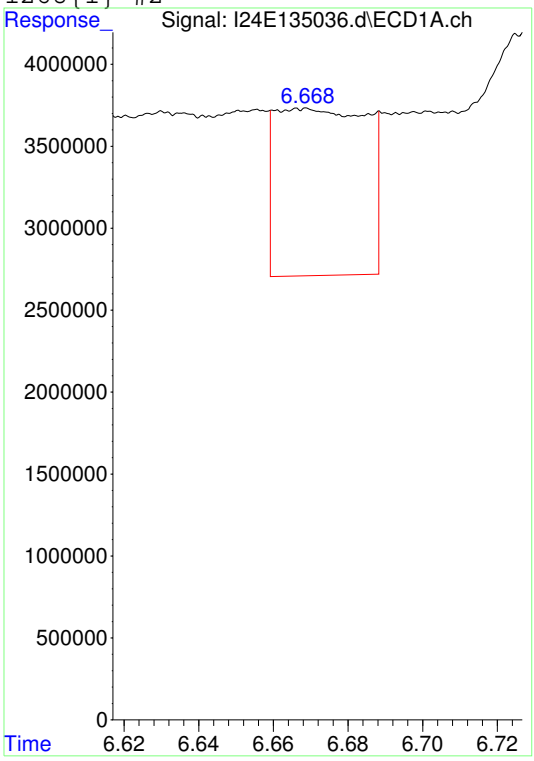
Wed May 15 08:25:36 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1232{5} #2



Original Integration
1268{1} #2



Original Int. Results

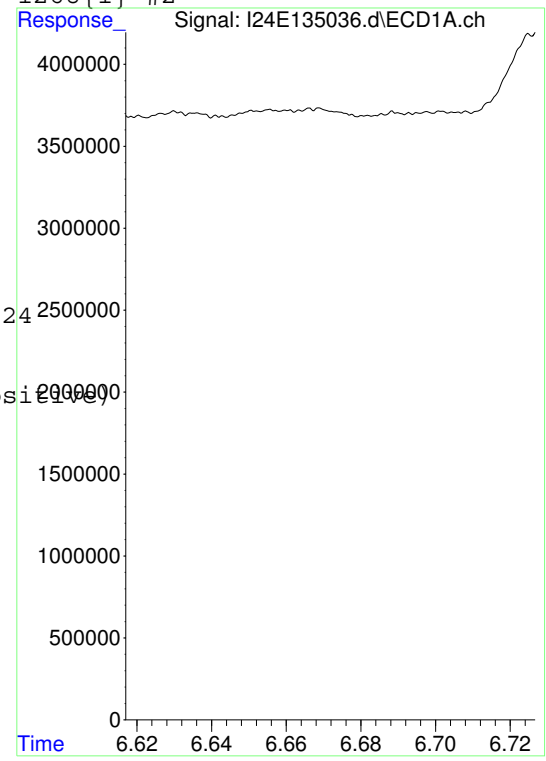
RT : 6.67
Area : 1.84106e+006
Amount: 0.223962

Manual Int. Results

Wed May 15 08:25:36 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

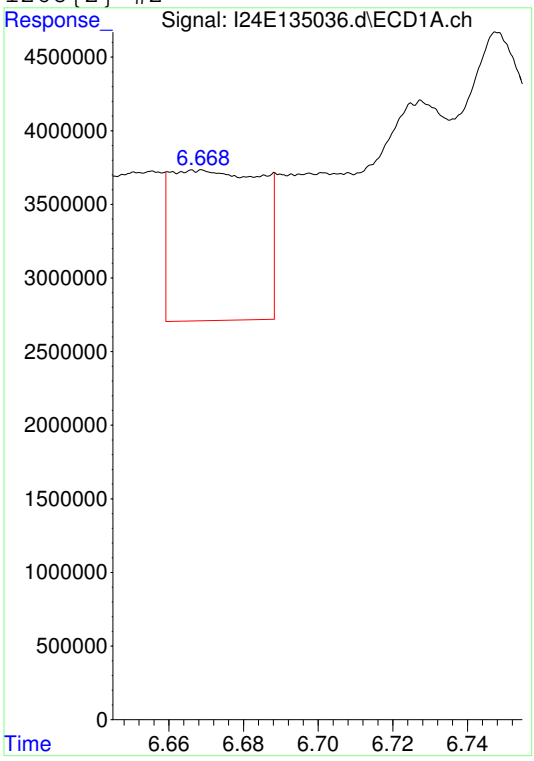
Manual Integration
1268{1} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135036.d
Acq On : 14 May 2024 7:47 pm
Operator : PJG
Sample : 24E1437-06@4X TBA
Misc :

Quant Time : Wed May 15 08:25:40 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1268{2} #2



Original Int. Results

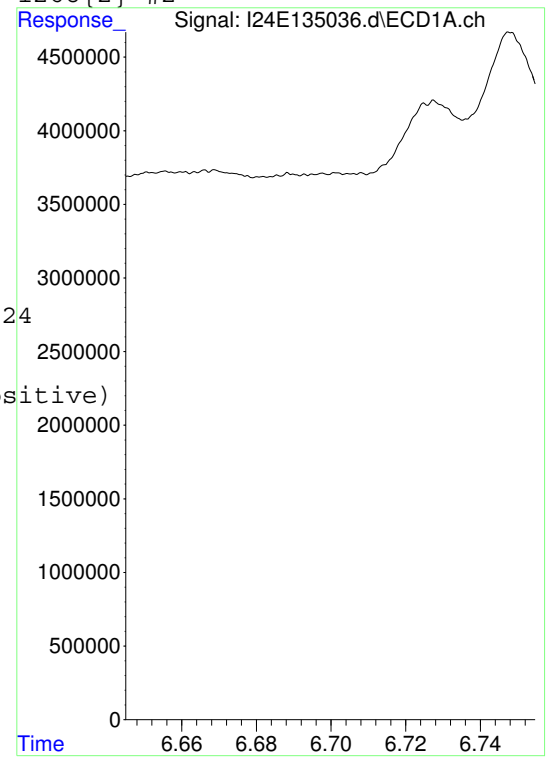
RT : 6.67
Area : 1.84106e+006
Amount: 0.229245

Manual Int. Results

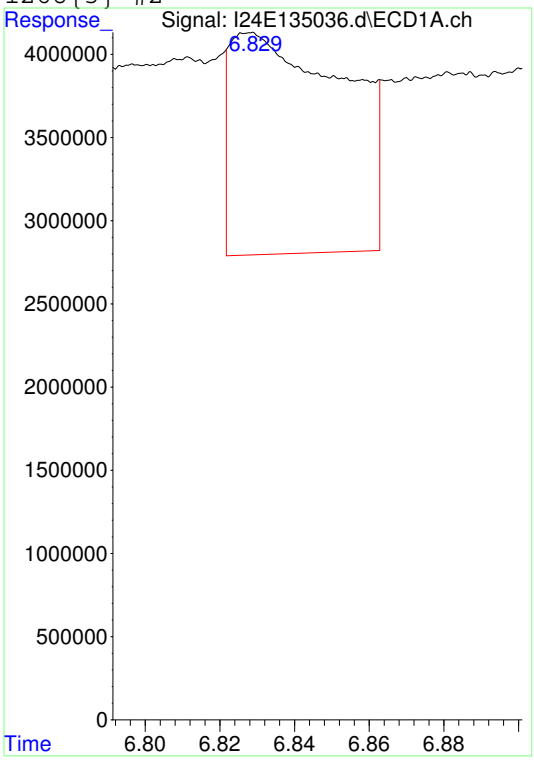
Wed May 15 08:25:35 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1268{2} #2



Original Integration
1268{3} #2



Original Int. Results

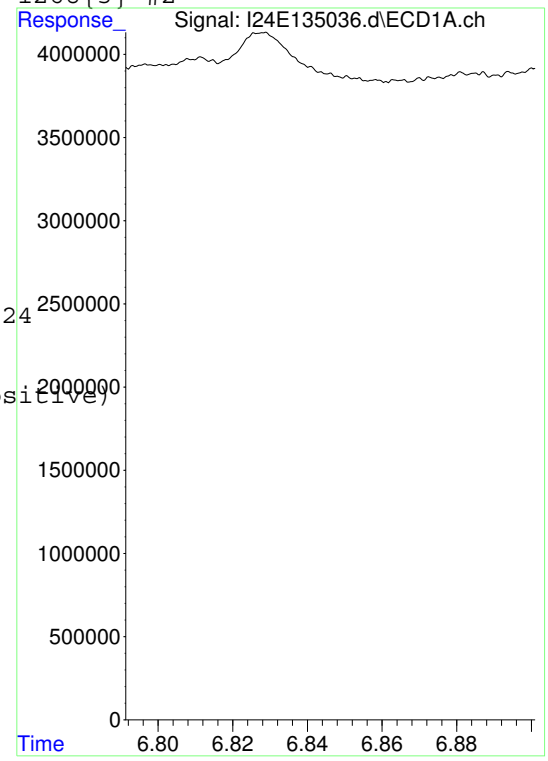
RT : 6.85
Area : 8.06397e+006
Amount: 1.08277

Manual Int. Results

Wed May 15 08:25:35 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

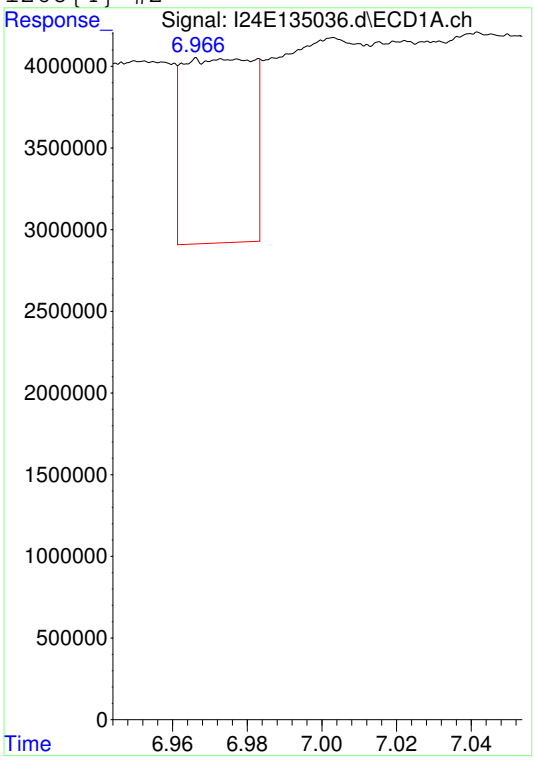
Manual Integration
1268{3} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135036.d
Acq On : 14 May 2024 7:47 pm
Operator : PJG
Sample : 24E1437-06@4X TBA
Misc :

Quant Time : Wed May 15 08:25:40 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1268{4} #2



Original Int. Results

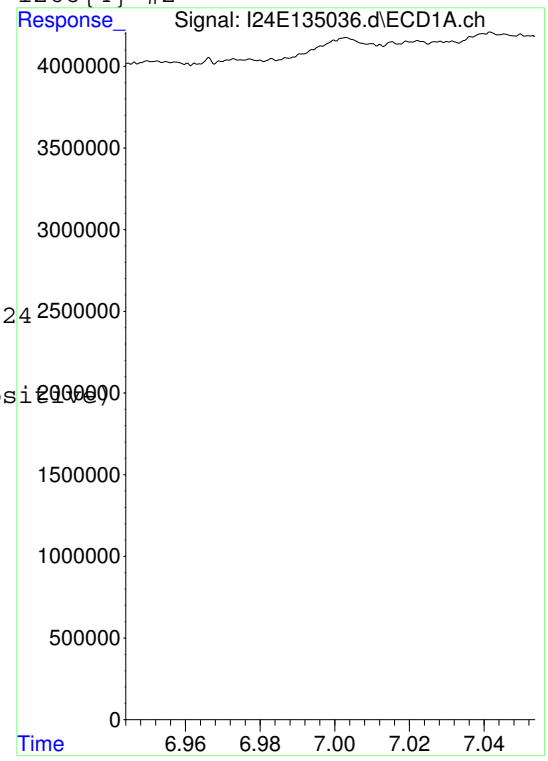
RT : 6.97
Area : 871559
Amount: 0.408737

Manual Int. Results

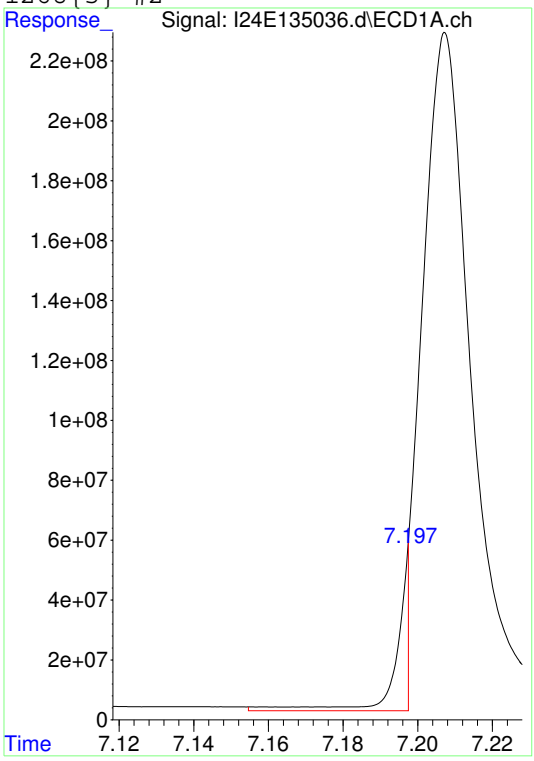
Wed May 15 08:25:35 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1268{4} #2



Original Integration
1268{5} #2



Original Int. Results

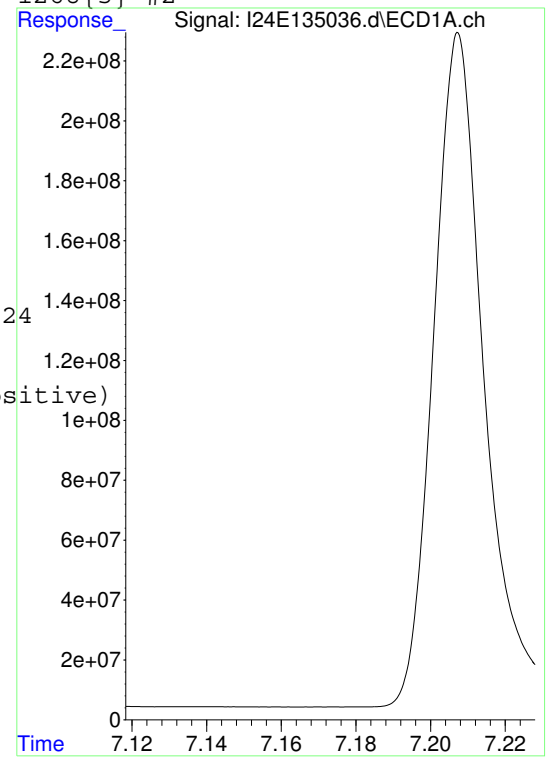
RT : 7.17
Area : 1.44538e+007
Amount: 0.712633

Manual Int. Results

Wed May 15 08:25:35 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

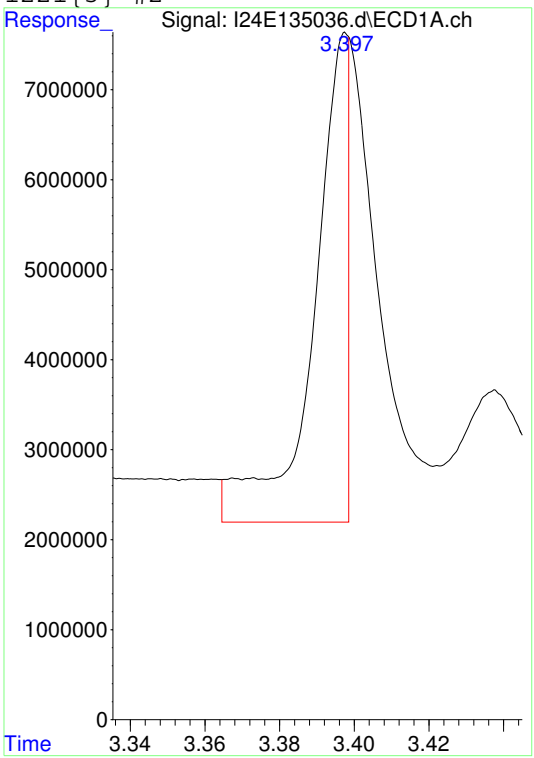
Manual Integration
1268{5} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135036.d
Acq On : 14 May 2024 7:47 pm
Operator : PJG
Sample : 24E1437-06@4X TBA
Misc :

Quant Time : Wed May 15 08:25:40 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1221{3} #2



Original Int. Results

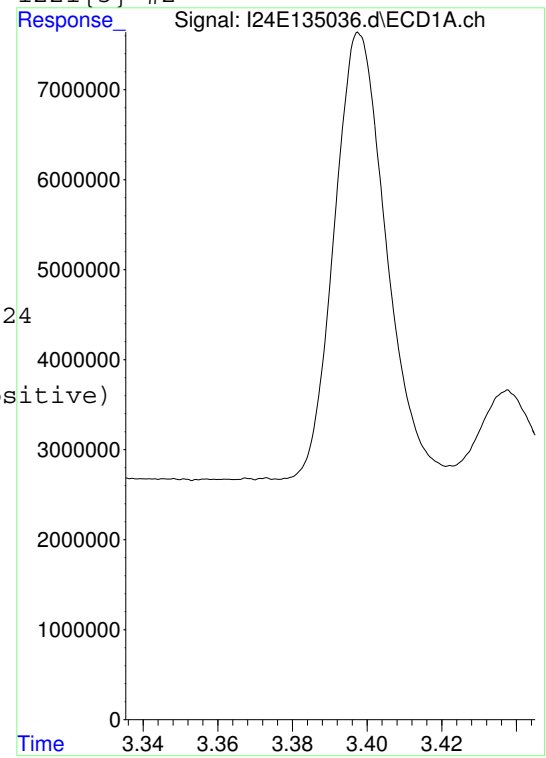
RT : 3.38
Area : 1.87261e+006
Amount: 1.2473

Manual Int. Results

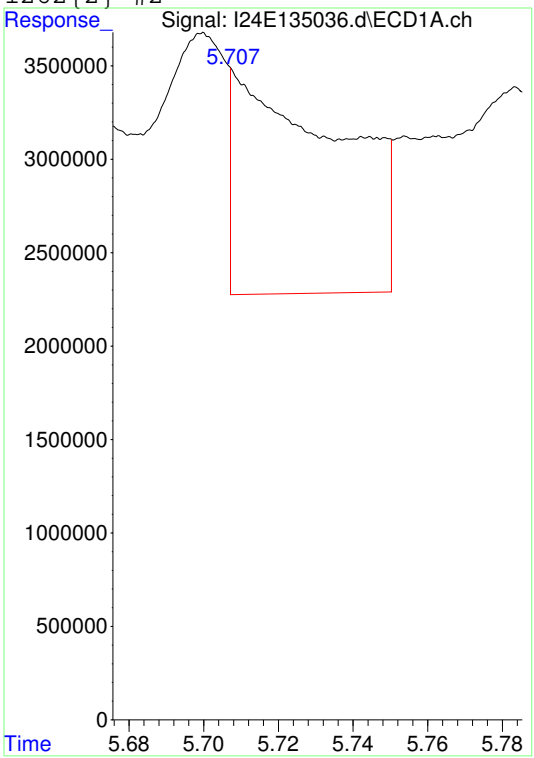
Wed May 15 08:25:34 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1221{3} #2



Original Integration
1262{2} #2



Original Int. Results

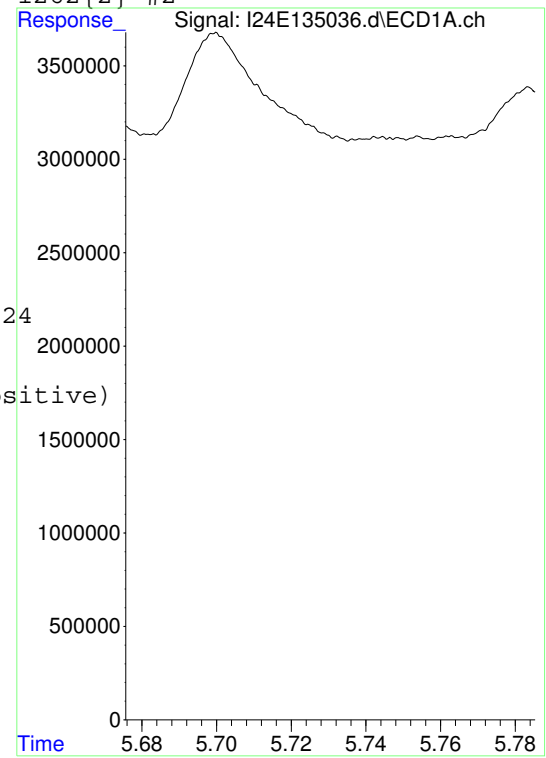
RT : 5.73
Area : 5.92495e+006
Amount: 2.04168

Manual Int. Results

Wed May 15 08:25:34 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

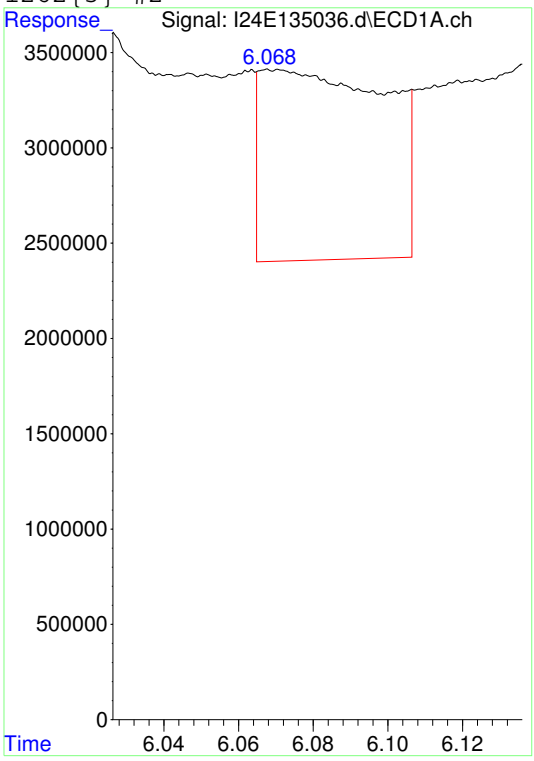
Manual Integration
1262{2} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135036.d
Acq On : 14 May 2024 7:47 pm
Operator : PJG
Sample : 24E1437-06@4X TBA
Misc :

Quant Time : Wed May 15 08:25:40 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1262{3} #2



Original Int. Results

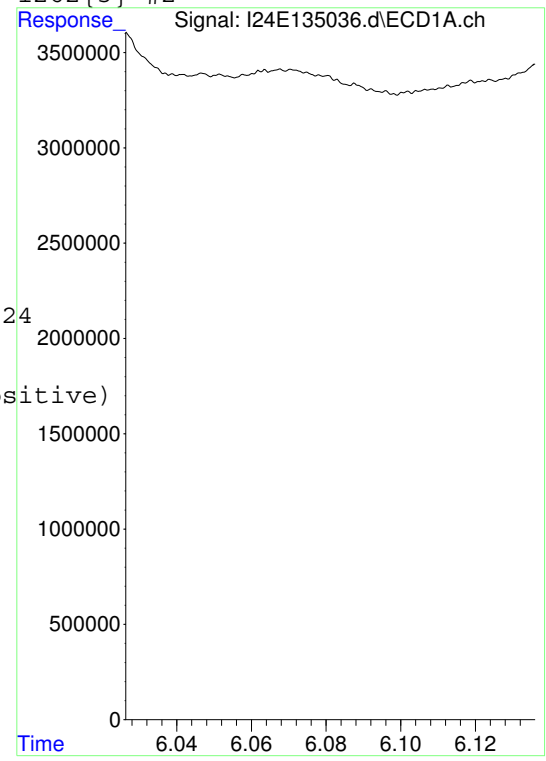
RT : 6.08
Area : 2.71903e+006
Amount: 0.769075

Manual Int. Results

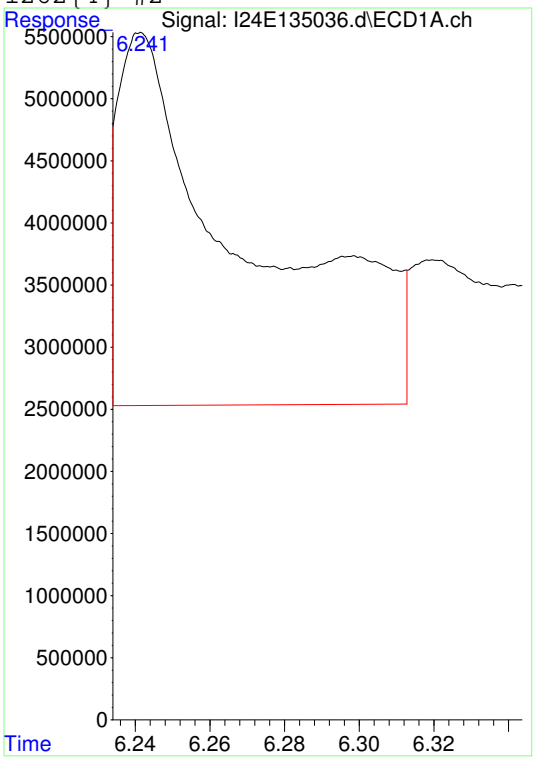
Wed May 15 08:25:34 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1262{3} #2



Original Integration
1262{4} #2



Original Int. Results

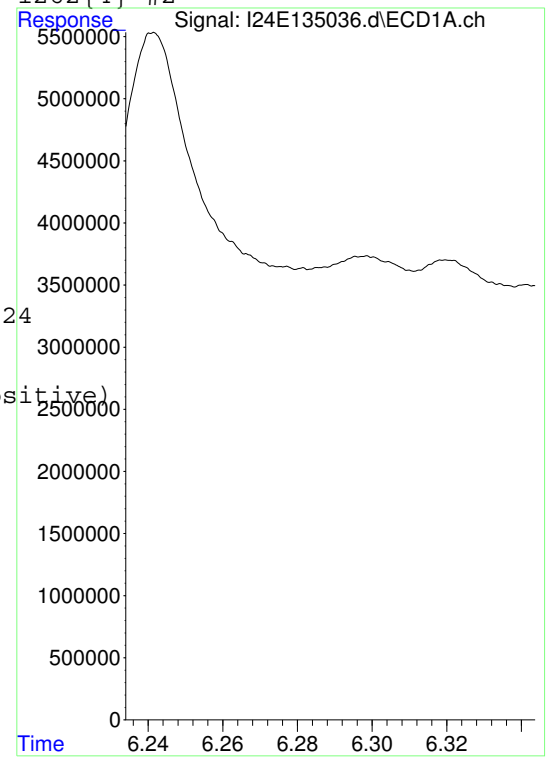
RT : 6.28
Area : 2.40262e+007
Amount: 7.07745

Manual Int. Results

Wed May 15 08:25:33 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

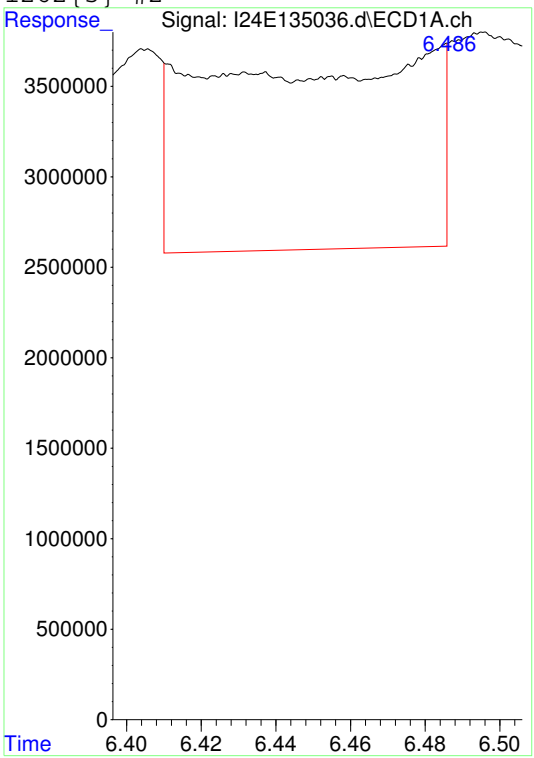
Manual Integration
1262{4} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135036.d
Acq On : 14 May 2024 7:47 pm
Operator : PJG
Sample : 24E1437-06@4X TBA
Misc :

Quant Time : Wed May 15 08:25:40 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1262{5} #2



Original Int. Results

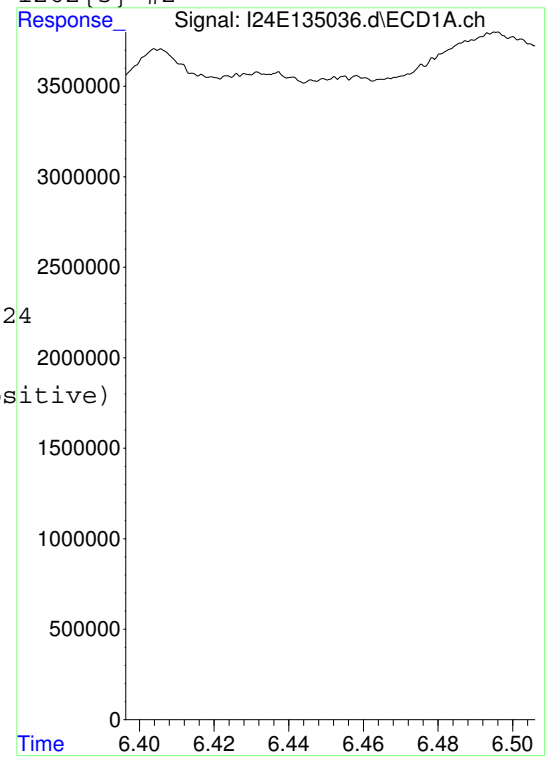
RT : 6.46
Area : 1.22853e+007
Amount: 1.70754

Manual Int. Results

Wed May 15 08:25:33 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1262{5} #2



1 - FORM I
ANALYSIS DATA SHEET

SB4A

Laboratory:	Pace New England			SDG:	24E1437
Client:	NYS Division of Environmental Rer			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-12	File ID:	I24E135037.d
Sampled:	05/08/24 14:53	Prepared:	05/10/24 15:04	Analyzed:	05/14/24 20:04
Solids:	77.87	Preparation:	SW-846 3546	Dilution:	4
Batch:	B374045	Sequence:	S104539	Calibration:	2400478
Instrument:	ECD 9				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.024	0.098	
11104-28-2	Aroclor-1221		0.046	0.098	
11141-16-5	Aroclor-1232		0.024	0.098	
53469-21-9	Aroclor-1242		0.027	0.098	
12672-29-6	Aroclor-1248		0.024	0.098	
11097-69-1	Aroclor-1254	1.1	0.029	0.098	
11096-82-5	Aroclor-1260		0.020	0.098	
37324-23-5	Aroclor-1262		0.025	0.098	
11100-14-4	Aroclor-1268		0.026	0.098	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : I24E135037.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 8:04 pm
Operator : PJG
Sample : 24E1437-12@4X TBA Inst : ECD 9
Misc :
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 15 08:40:28 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	3.071	2.995	2976.1E6	2721.9E6	45.315	47.047
2) S	Decachlor...	7.207	7.312	2496.0E6	2235.5E6	44.968	44.884
	Target Compounds						
3) L1	1016{1}	0.000	0.000	0	0	N.D. d	N.D. d
4) L1	1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1	1016{3}	0.000	0.000	0	0	N.D. d	N.D. d
6) L1	1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1	1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9) L7	1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7	1260{3}	0.000	0.000	0	0	N.D. d	N.D. d
11) L7	1260{4}	0.000	0.000	0	0	N.D. d	N.D. d
12) L7	1260{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13) L6	1254{1}	4.785	4.871	559.8E6	497.0E6	186.880	188.467
14) L6	1254{2}	5.223	5.024	645.9E6	612.0E6	197.015	201.605
15) L6	1254{3}	5.323	5.305	1078.9E6	483.5E6	201.125	197.702
16) L6	1254{4}	5.552	5.400	984.1E6	914.0E6	236.985	211.140
17) L6	1254{5}	5.930	6.014	1781.3E6	1560.3E6	321.889	325.836
Sum	1254			5049.9E6	4066.8E6	1143.893	1124.749
Average	1254					228.779	224.950
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\051424\
Data File : I24E135037.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 8:04 pm
Operator : PJG
Sample : 24E1437-12@4X TBA Inst : ECD 9
Misc :
ALS Vial : 37 Sample Multiplier: 1

3135

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 15 08:40:28 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40)	L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D. d	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

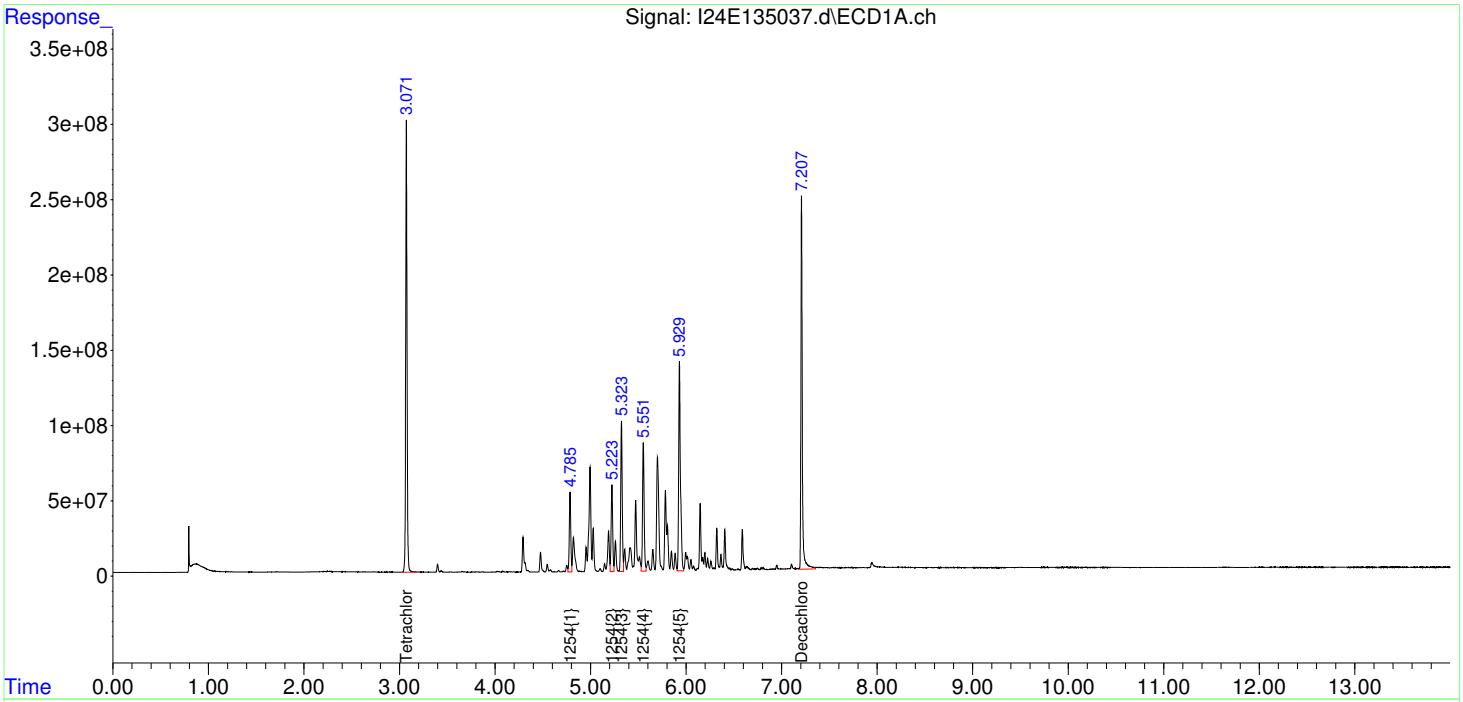
Quantitation Report (QT Reviewed)

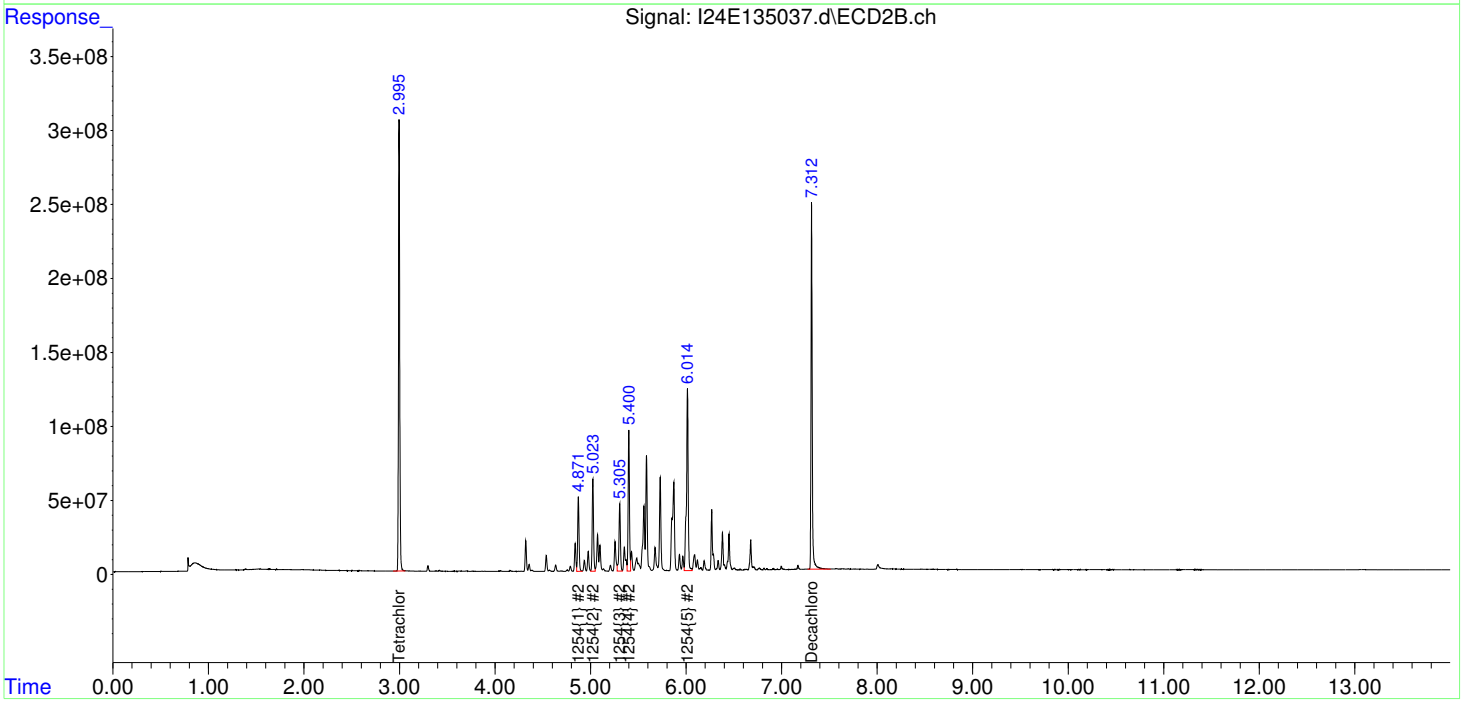
3136

Data Path : C:\msdchem\1\data\051424\
Data File : I24E135037.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 8:04 pm
Operator : PJG
Sample : 24E1437-12@4X TBA Inst : ECD 9
Misc :
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 15 08:40:28 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

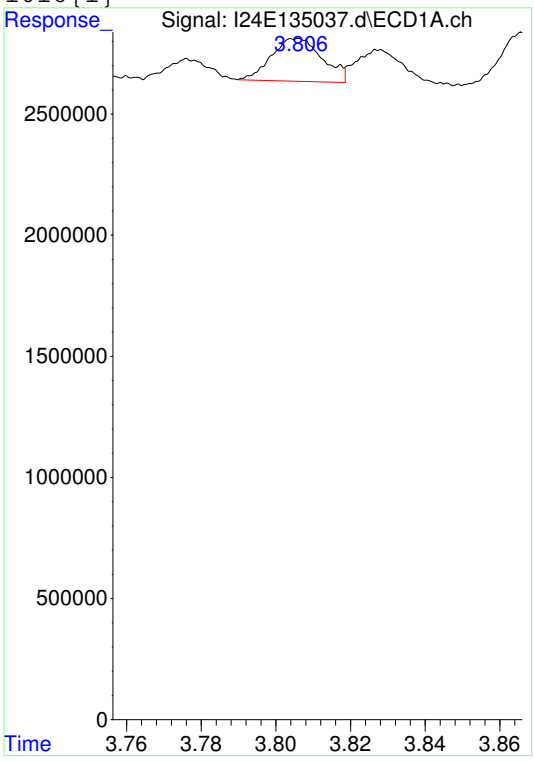




Data Path : C:\msdchem\1\data\051424\
Data File : I24E135037.d
Acq On : 14 May 2024 8:04 pm
Operator : PJG
Sample : 24E1437-12@4X TBA
Misc :

Quant Time : Wed May 15 08:40:28 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1016{1}



Original Int. Results

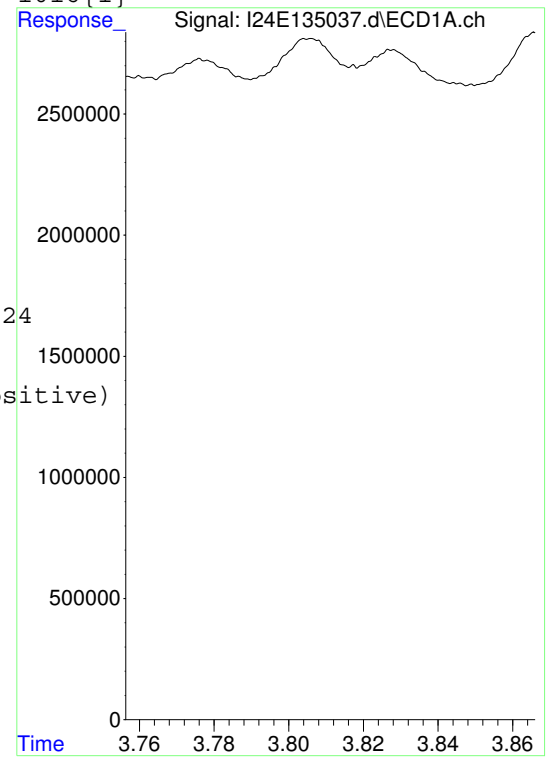
RT : 3.81
Area : 1.6543e+006
Amount: 1.7417

Manual Int. Results

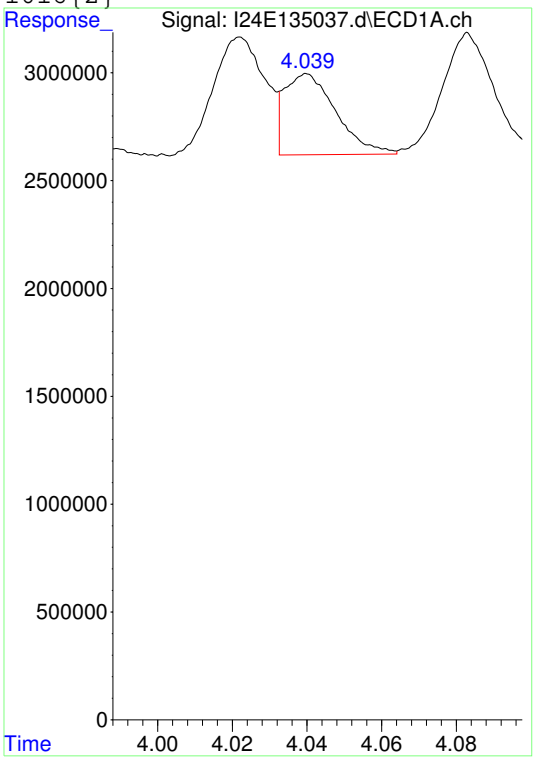
Wed May 15 08:40:15 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1016{1}



Original Integration
1016{2}



Original Int. Results

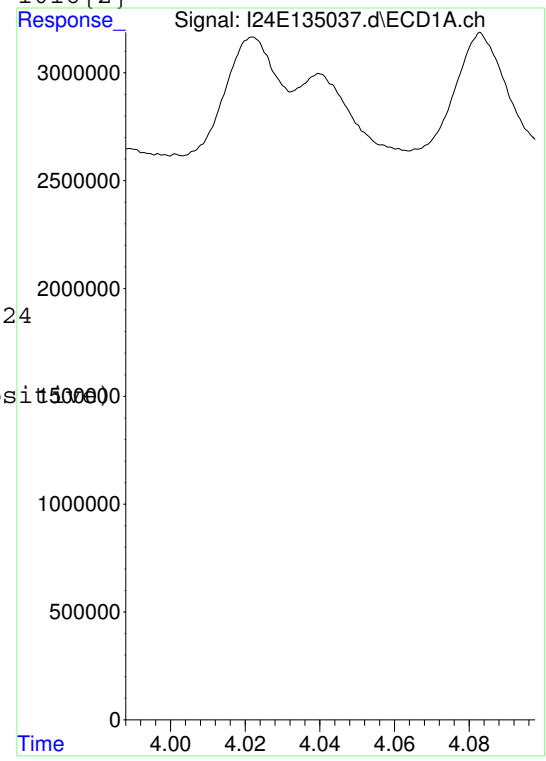
RT : 4.04
Area : 3.62036e+006
Amount: 0.887374

Manual Int. Results

Wed May 15 08:40:15 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

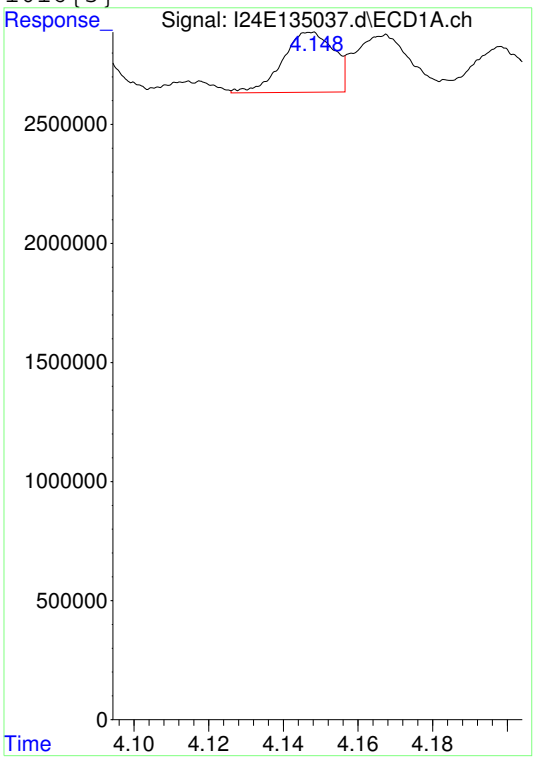
Manual Integration
1016{2}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135037.d
Acq On : 14 May 2024 8:04 pm
Operator : PJG
Sample : 24E1437-12@4X TBA
Misc :

Quant Time : Wed May 15 08:40:28 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1016{3}



Original Int. Results

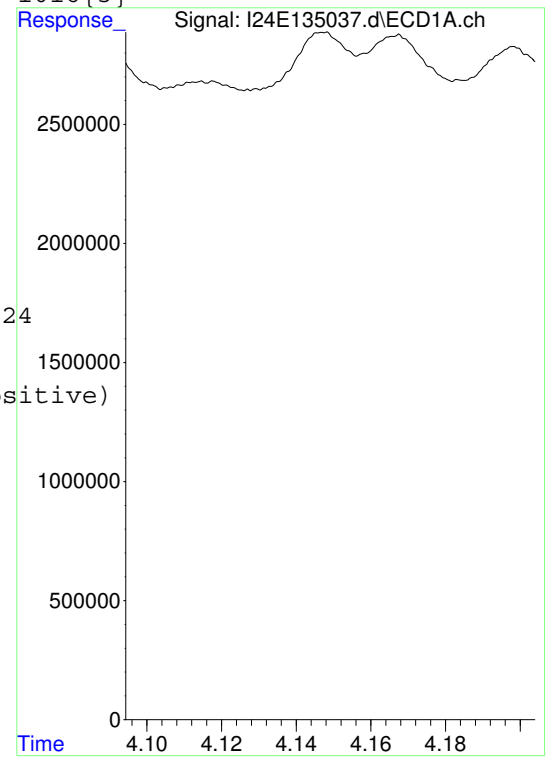
RT : 4.15
Area : 2.38395e+006
Amount: 0.807525

Manual Int. Results

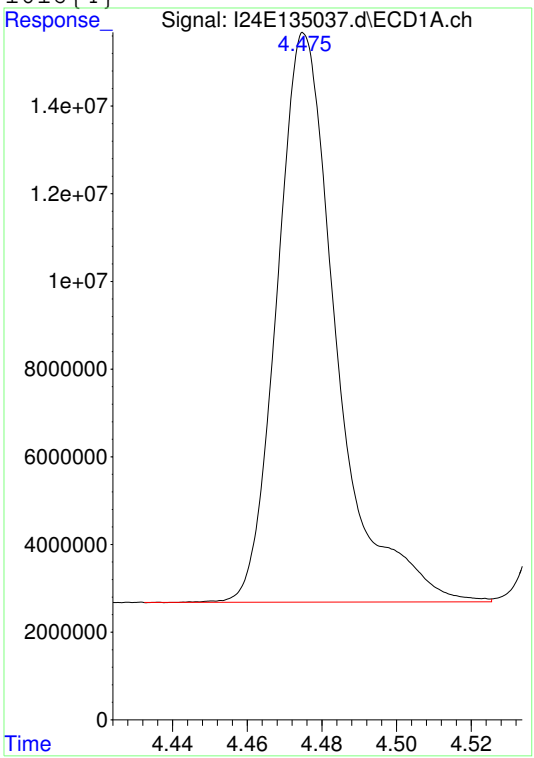
Wed May 15 08:40:14 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1016{3}



Original Integration
1016{4}



Original Int. Results

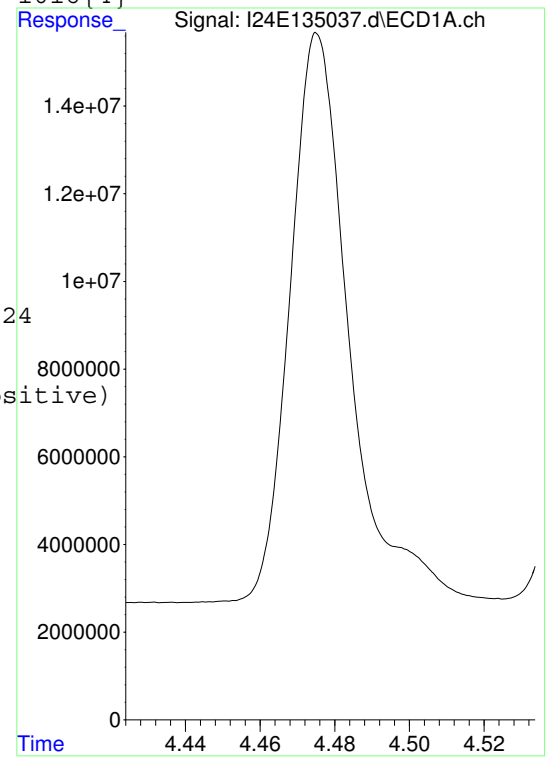
RT : 4.48
Area : 1.43781e+008
Amount: 66.7493

Manual Int. Results

Wed May 15 08:40:14 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

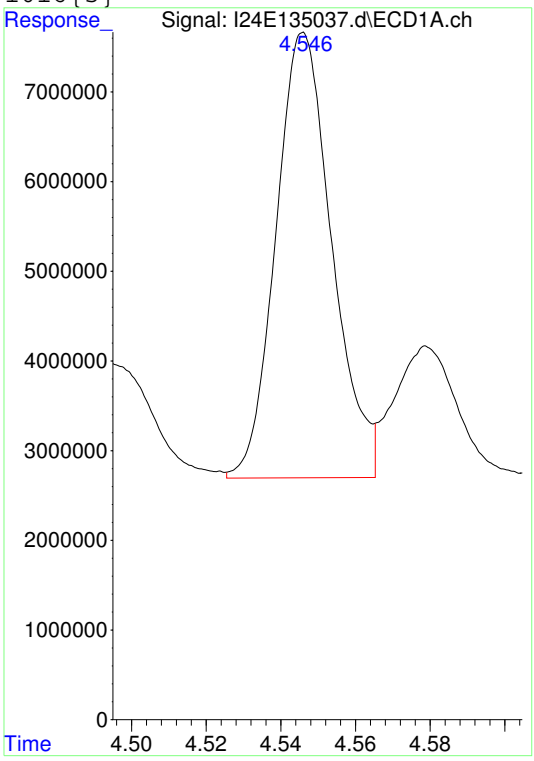
Manual Integration
1016{4}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135037.d
Acq On : 14 May 2024 8:04 pm
Operator : PJG
Sample : 24E1437-12@4X TBA
Misc :

Quant Time : Wed May 15 08:40:28 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1016{5}



Original Int. Results

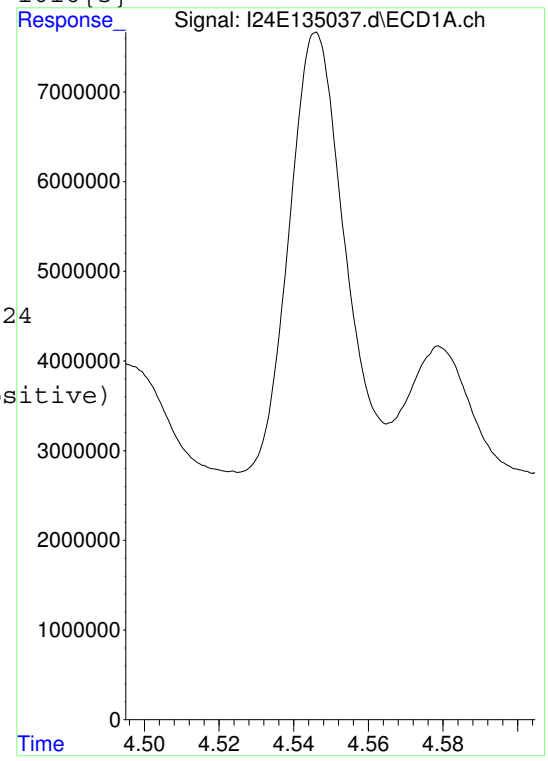
RT : 4.55
Area : 5.16152e+007
Amount: 35.8316

Manual Int. Results

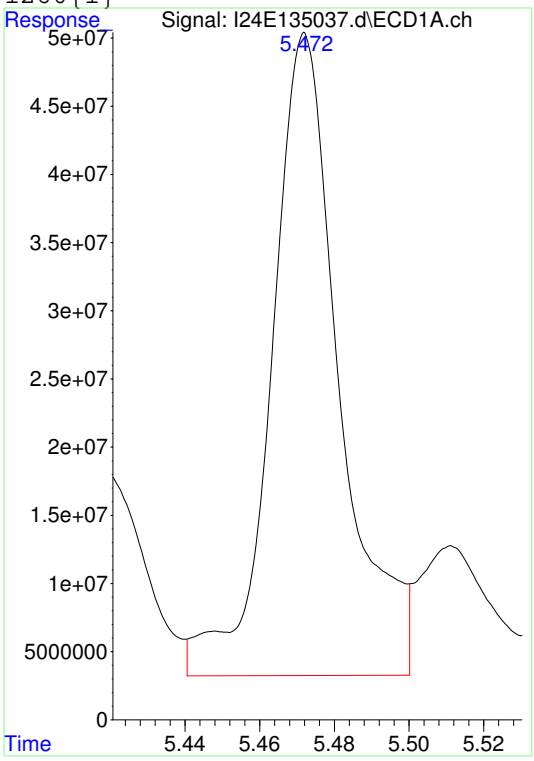
Wed May 15 08:40:14 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1016{5}



Original Integration
1260{1}



Original Int. Results

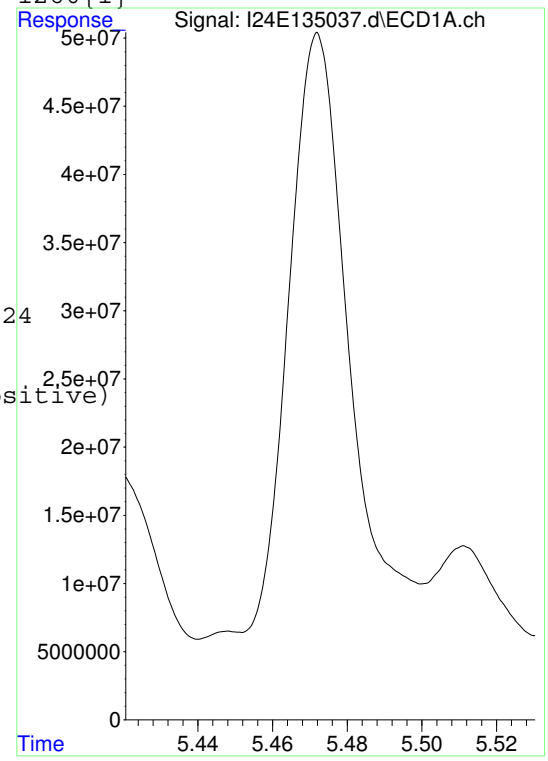
RT : 5.47
Area : 5.96529e+008
Amount: 142.316

Manual Int. Results

Wed May 15 08:40:14 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

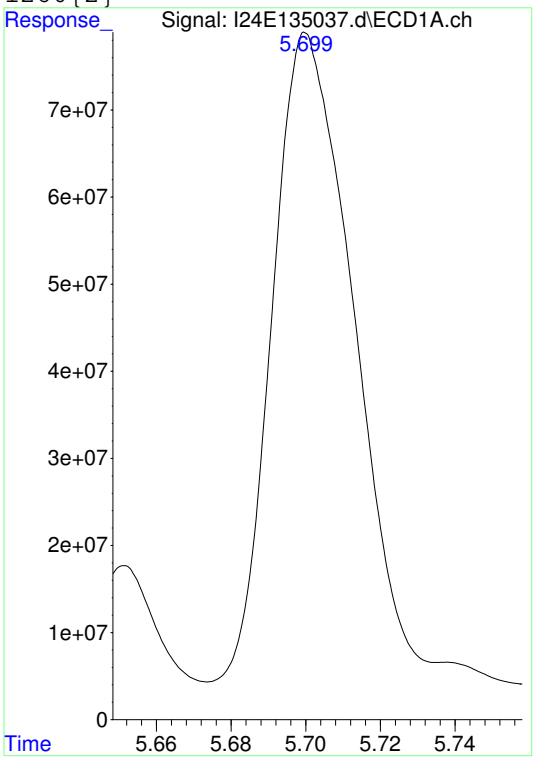
Manual Integration
1260{1}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135037.d
Acq On : 14 May 2024 8:04 pm
Operator : PJG
Sample : 24E1437-12@4X TBA
Misc :

Quant Time : Wed May 15 08:40:28 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1260{2}



Original Int. Results

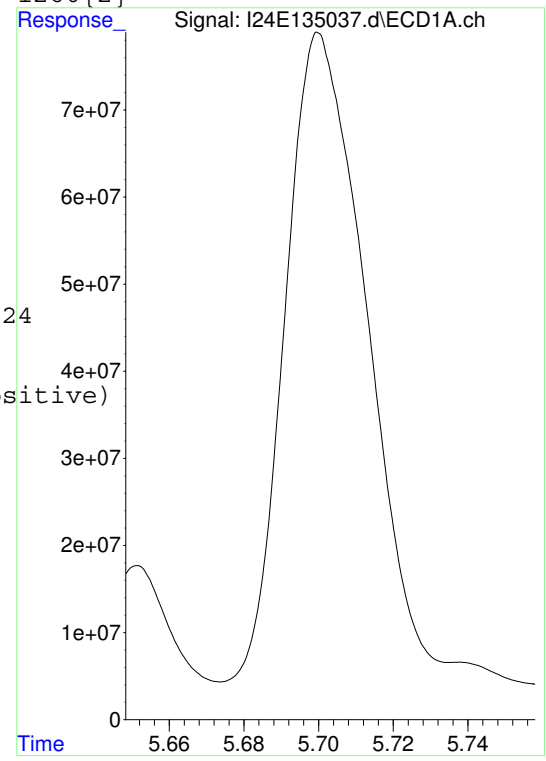
RT : 5.70
Area : 1.18011e+009
Amount: 189.903

Manual Int. Results

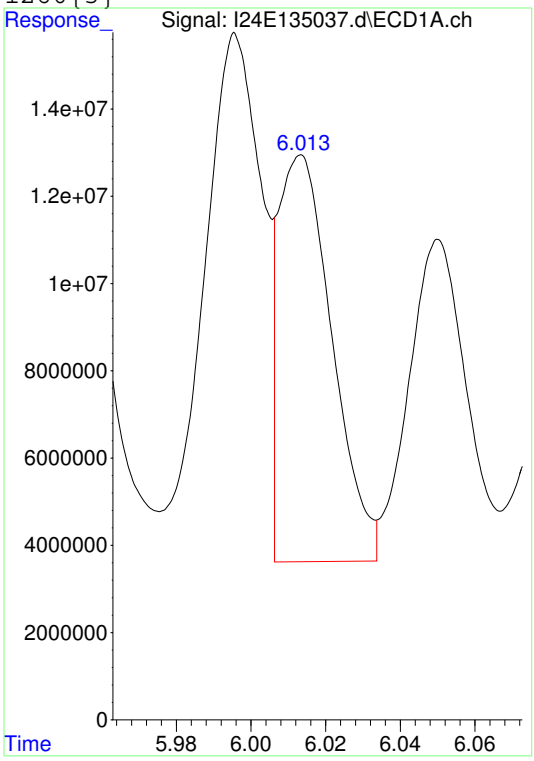
Wed May 15 08:40:14 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1260{2}



Original Integration
1260{3}



Original Int. Results

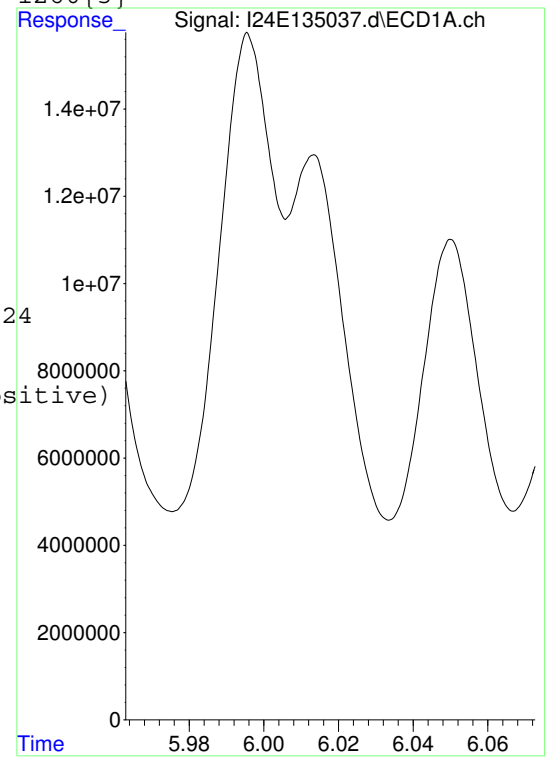
RT : 6.01
Area : 9.40436e+007
Amount: 23.5778

Manual Int. Results

Wed May 15 08:40:13 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

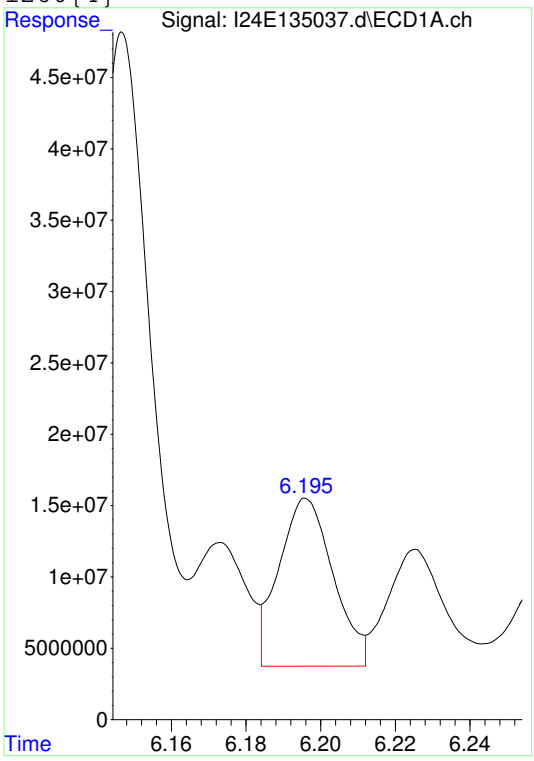
Manual Integration
1260{3}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135037.d
Acq On : 14 May 2024 8:04 pm
Operator : PJG
Sample : 24E1437-12@4X TBA
Misc :

Quant Time : Wed May 15 08:40:28 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1260{4}



Original Int. Results

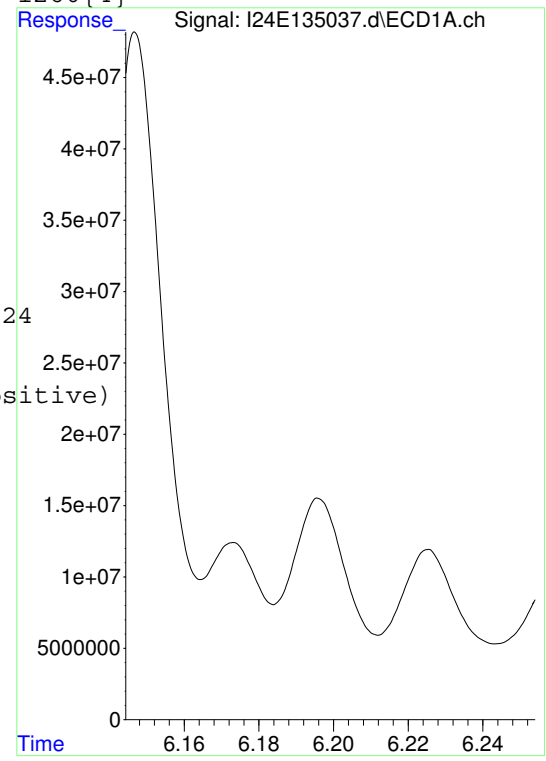
RT : 6.20
Area : 1.19259e+008
Amount: 29.5934

Manual Int. Results

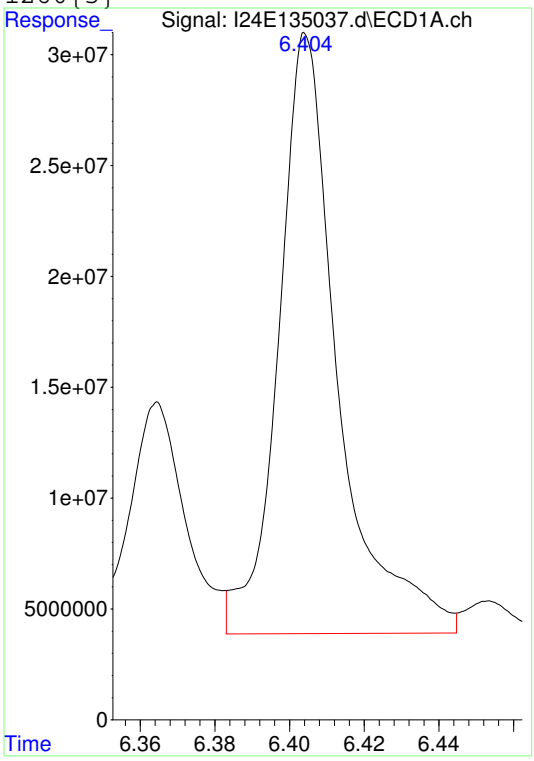
Wed May 15 08:40:13 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1260{4}



Original Integration
1260{5}



Original Int. Results

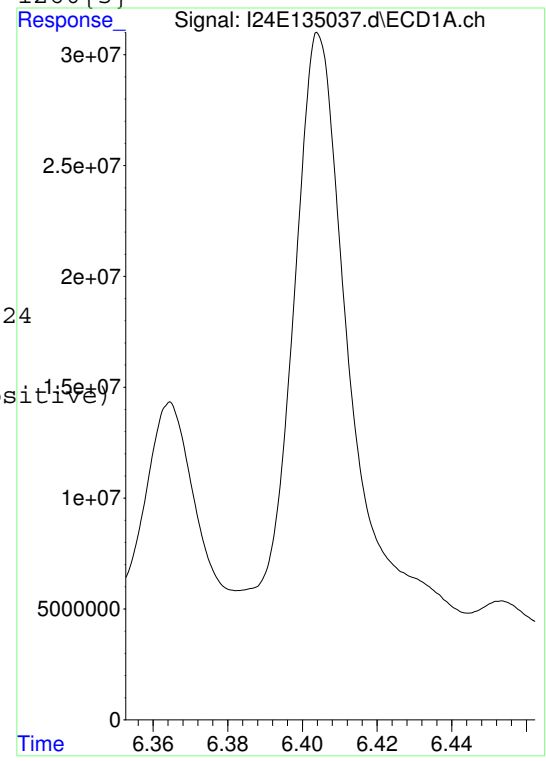
RT : 6.40
Area : 2.99346e+008
Amount: 35.4281

Manual Int. Results

Wed May 15 08:40:12 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

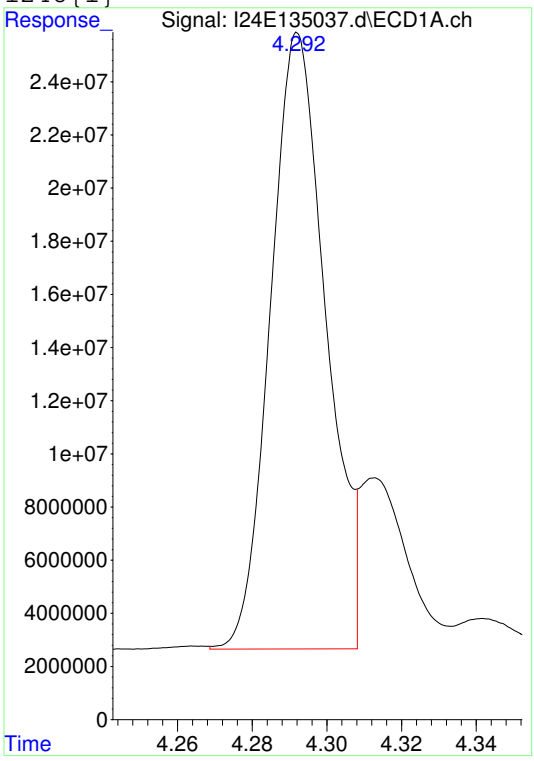
Manual Integration
1260{5}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135037.d
Acq On : 14 May 2024 8:04 pm
Operator : PJG
Sample : 24E1437-12@4X TBA
Misc :

Quant Time : Wed May 15 08:40:28 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1248{1}



Original Int. Results

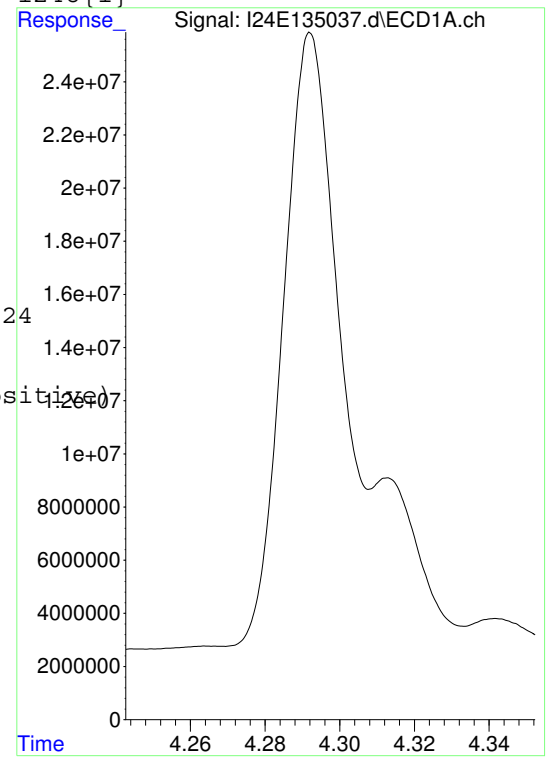
RT : 4.29
Area : 2.39293e+008
Amount: 129.802

Manual Int. Results

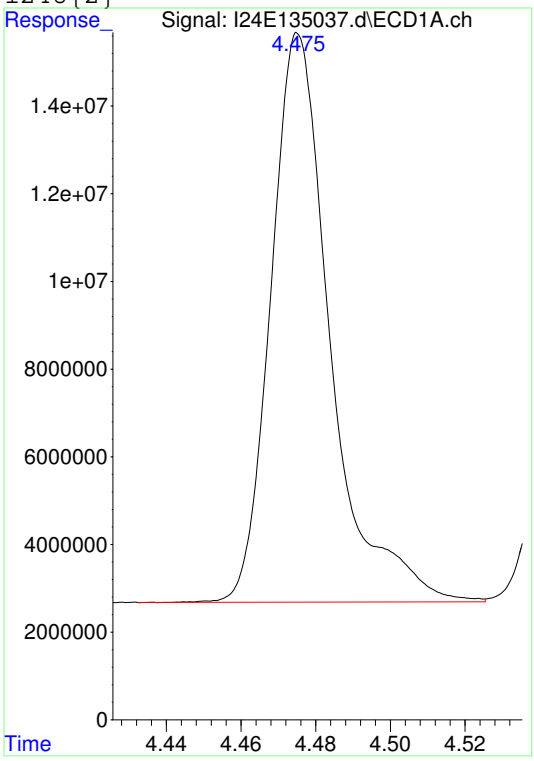
Wed May 15 08:40:28 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1248{1}



Original Integration
1248{2}



Original Int. Results

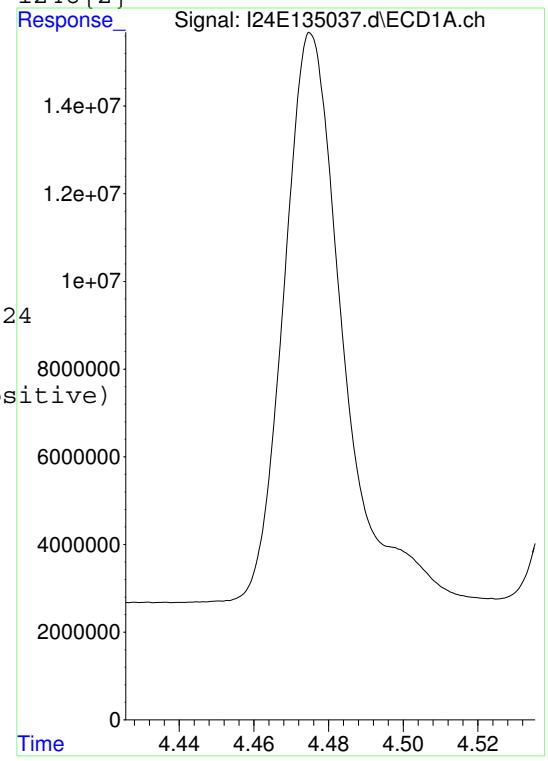
RT : 4.48
Area : 1.43781e+008
Amount: 56.1109

Manual Int. Results

Wed May 15 08:40:28 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

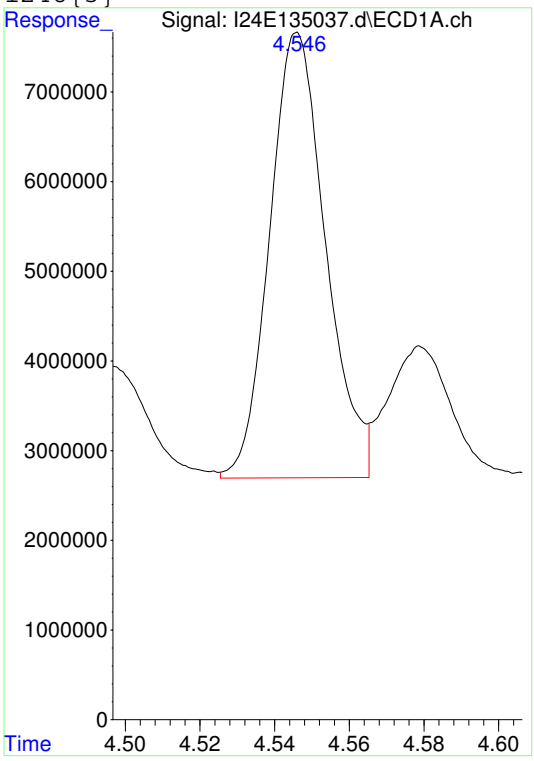
Manual Integration
1248{2}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135037.d
Acq On : 14 May 2024 8:04 pm
Operator : PJG
Sample : 24E1437-12@4X TBA
Misc :

Quant Time : Wed May 15 08:40:28 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1248{3}



Original Int. Results

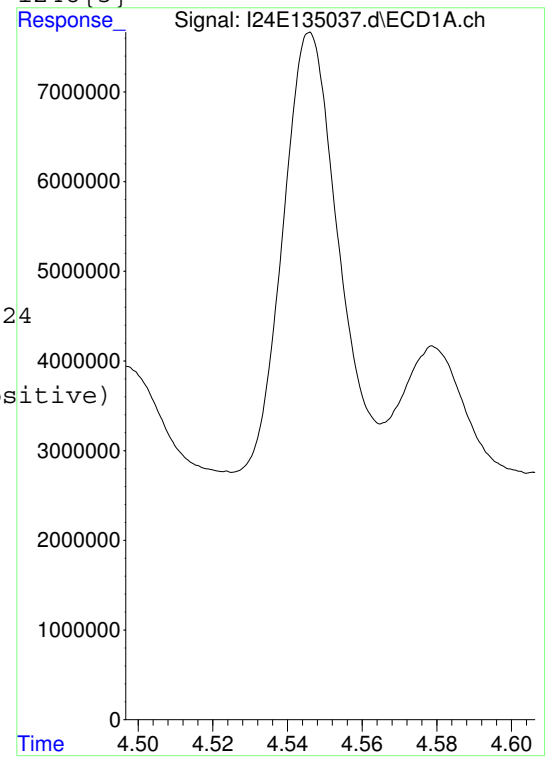
RT : 4.55
Area : 5.16152e+007
Amount: 29.2222

Manual Int. Results

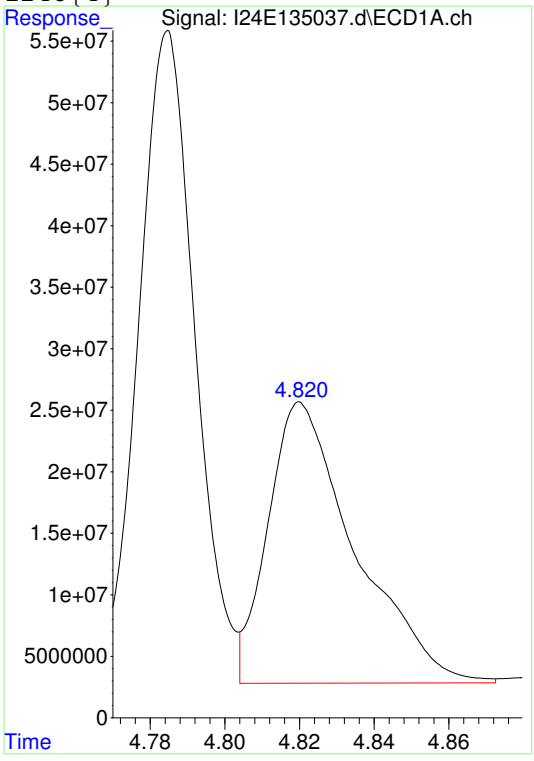
Wed May 15 08:40:27 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1248{3}



Original Integration
1248{4}



Original Int. Results

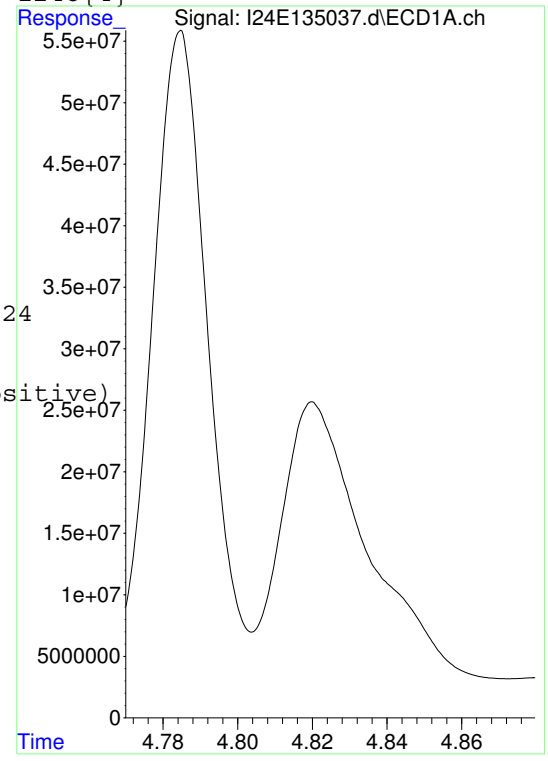
RT : 4.82
Area : 3.70474e+008
Amount: 125.077

Manual Int. Results

Wed May 15 08:40:27 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

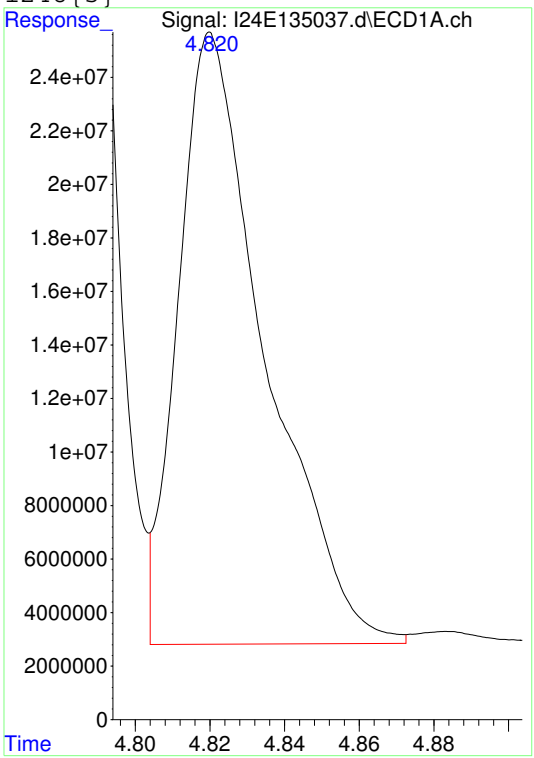
Manual Integration
1248{4}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135037.d
Acq On : 14 May 2024 8:04 pm
Operator : PJG
Sample : 24E1437-12@4X TBA
Misc :

Quant Time : Wed May 15 08:40:28 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1248{5}



Original Int. Results

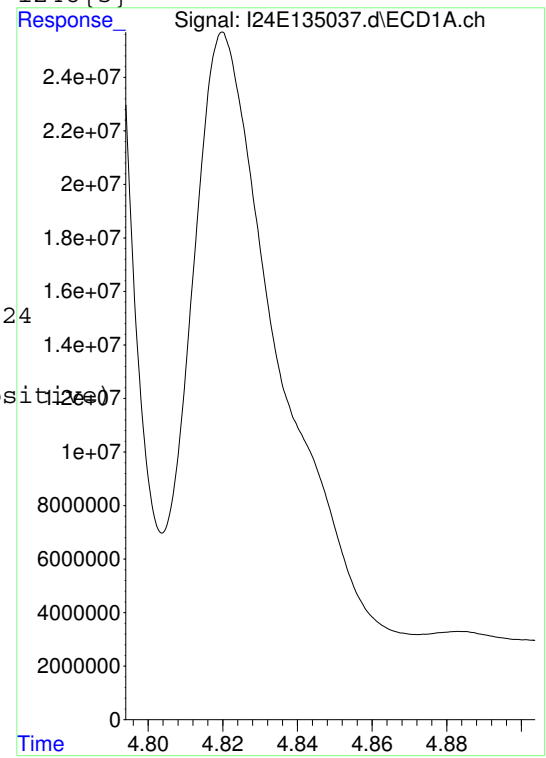
RT : 4.82
Area : 3.70474e+008
Amount: 129.575

Manual Int. Results

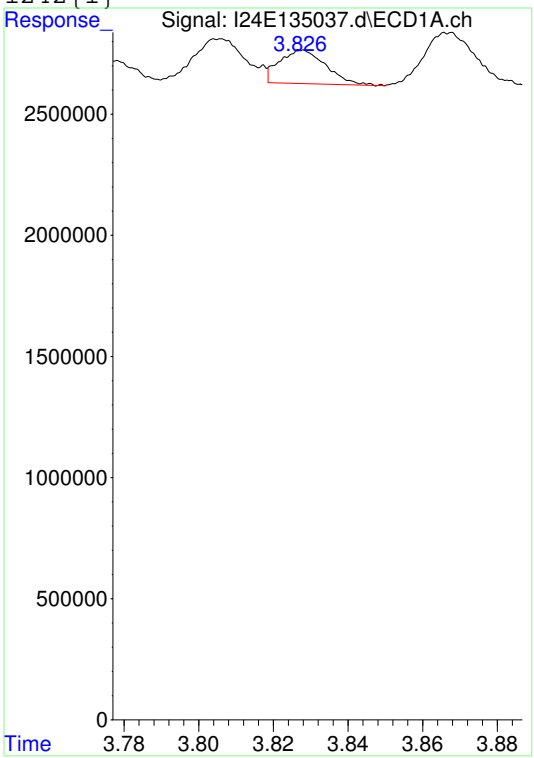
Wed May 15 08:40:27 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1248{5}



Original Integration
1242{1}



Original Int. Results

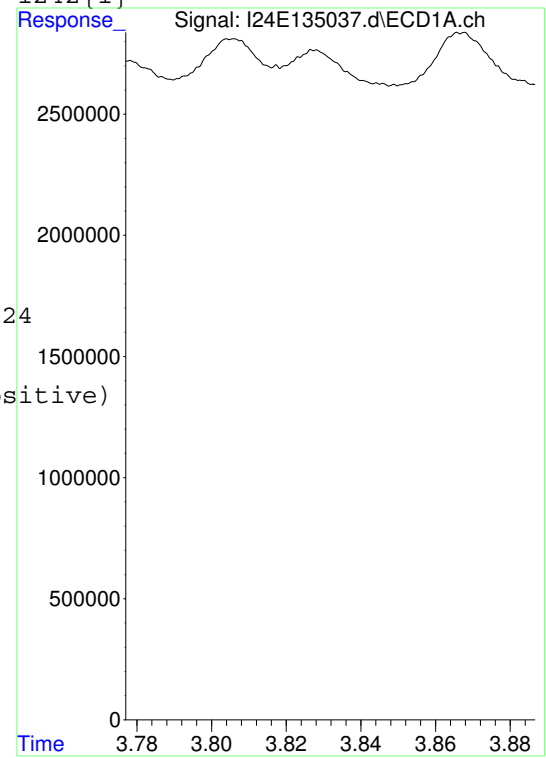
RT : 3.83
Area : 1.20386e+006
Amount: 1.12097

Manual Int. Results

Wed May 15 08:40:27 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

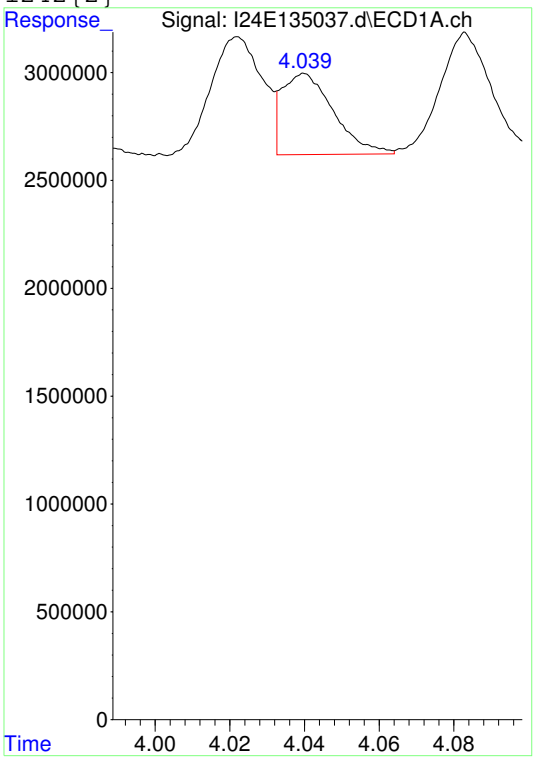
Manual Integration
1242{1}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135037.d
Acq On : 14 May 2024 8:04 pm
Operator : PJG
Sample : 24E1437-12@4X TBA
Misc :

Quant Time : Wed May 15 08:40:28 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1242{2}



Original Int. Results

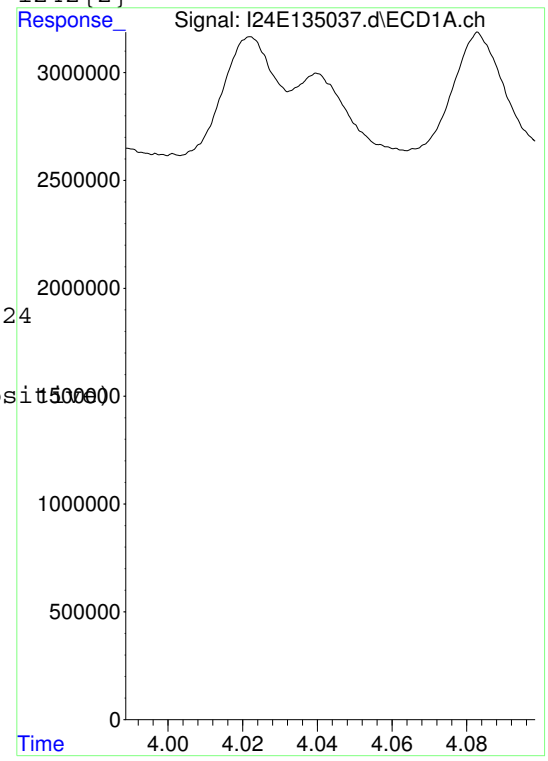
RT : 4.04
Area : 3.62036e+006
Amount: 1.1047

Manual Int. Results

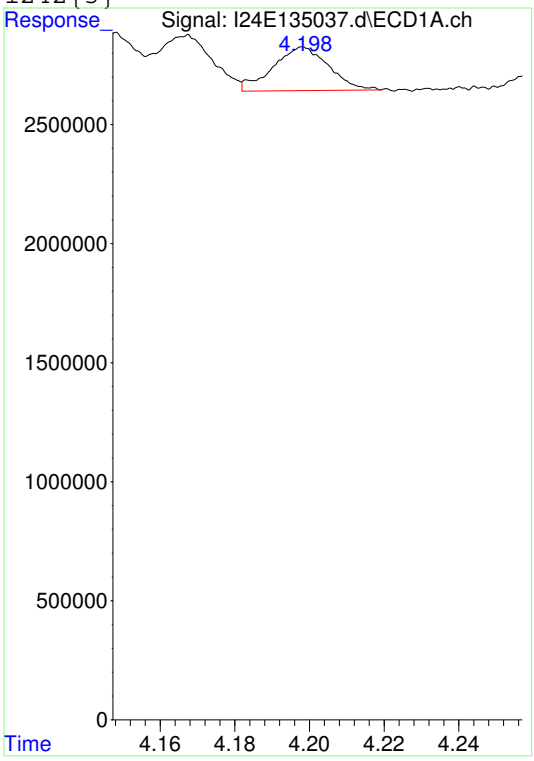
Wed May 15 08:40:27 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1242{2}



Original Integration
1242{3}



Original Int. Results

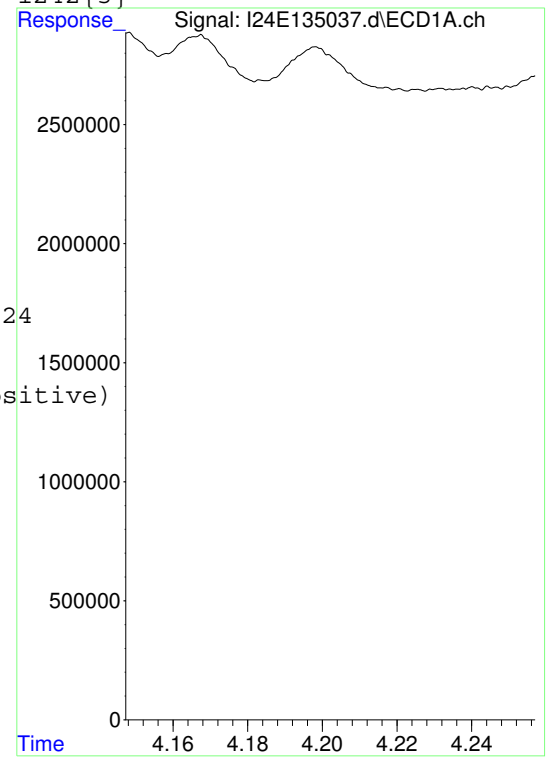
RT : 4.20
Area : 1.90305e+006
Amount: 1.26983

Manual Int. Results

Wed May 15 08:40:26 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

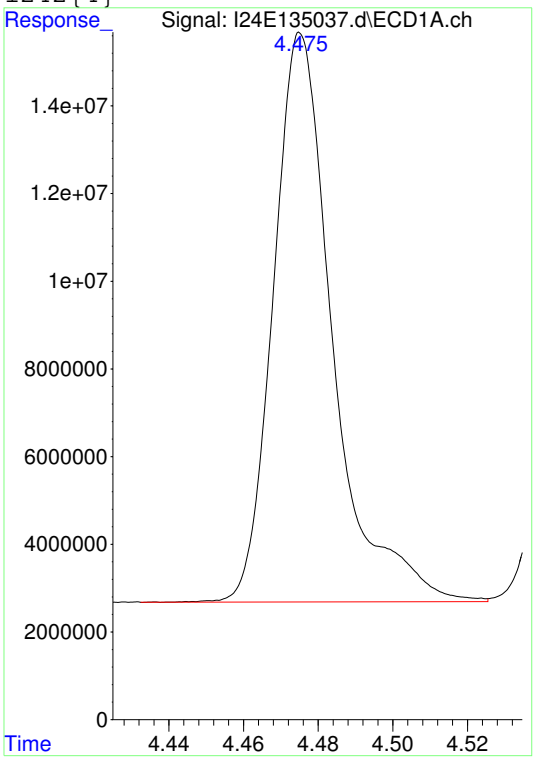
Manual Integration
1242{3}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135037.d
Acq On : 14 May 2024 8:04 pm
Operator : PJG
Sample : 24E1437-12@4X TBA
Misc :

Quant Time : Wed May 15 08:40:28 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1242{4}



Original Int. Results

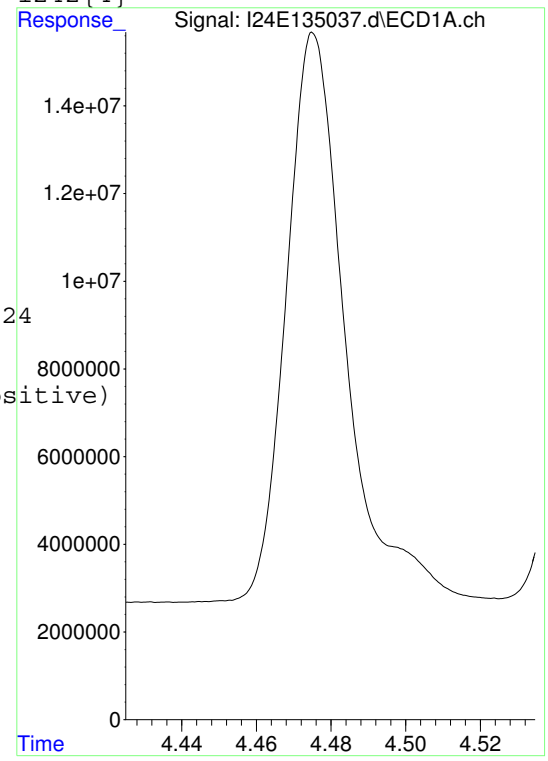
RT : 4.48
Area : 1.43781e+008
Amount: 78.4392

Manual Int. Results

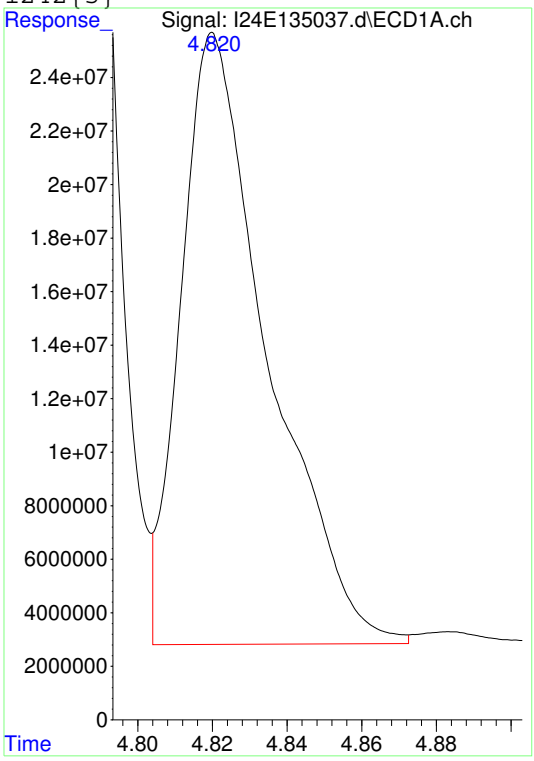
Wed May 15 08:40:26 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1242{4}



Original Integration
1242{5}



Original Int. Results

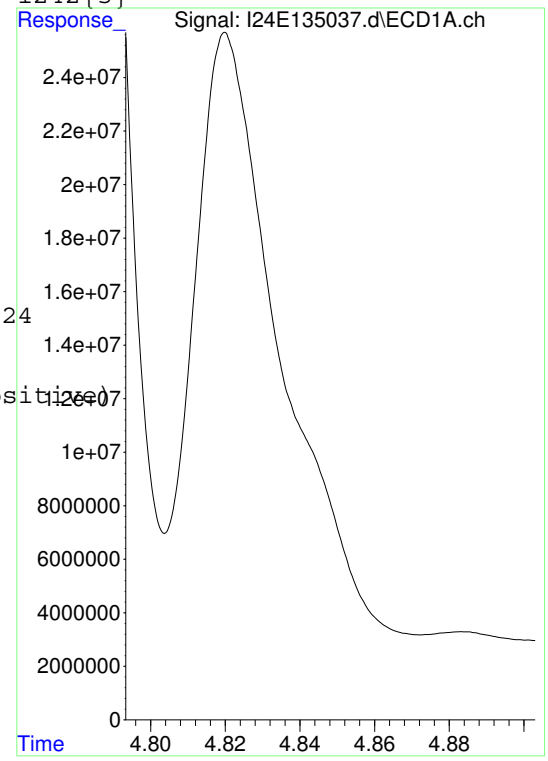
RT : 4.82
Area : 3.70474e+008
Amount: 198.591

Manual Int. Results

Wed May 15 08:40:26 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

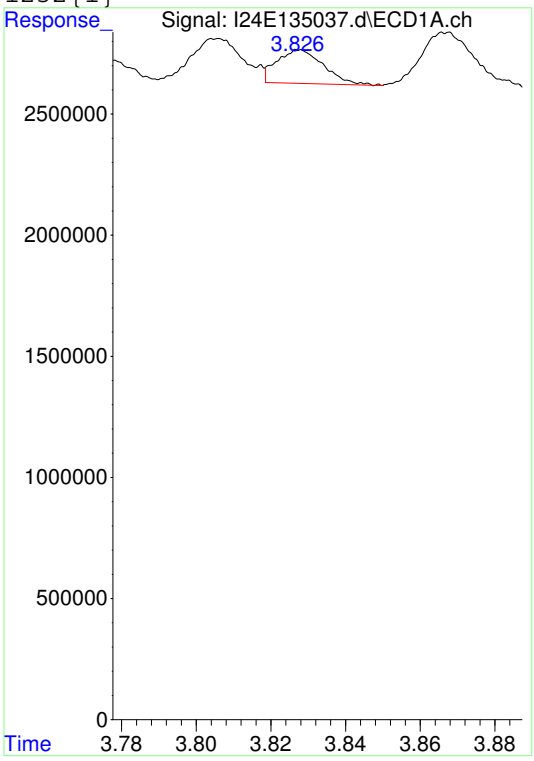
Manual Integration
1242{5}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135037.d
Acq On : 14 May 2024 8:04 pm
Operator : PJG
Sample : 24E1437-12@4X TBA
Misc :

Quant Time : Wed May 15 08:40:28 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1232{1}



Original Int. Results

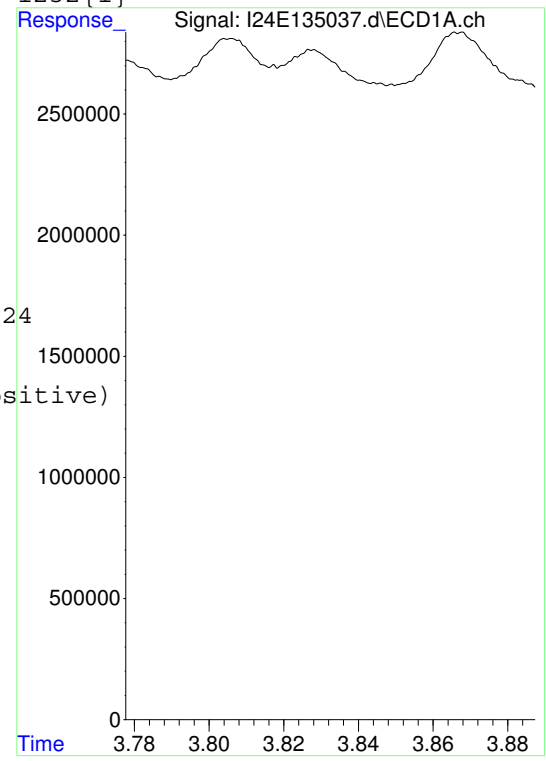
RT : 3.83
Area : 1.20386e+006
Amount: 1.8225

Manual Int. Results

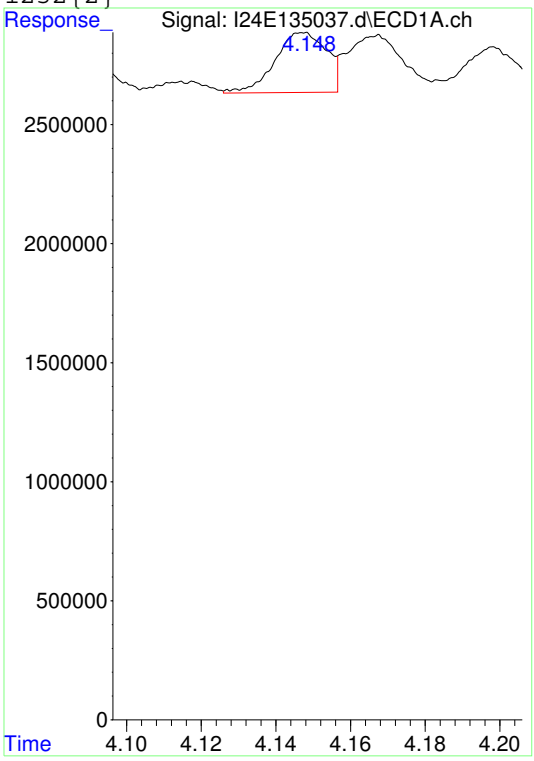
Wed May 15 08:40:26 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1232{1}



Original Integration
1232{2}



Original Int. Results

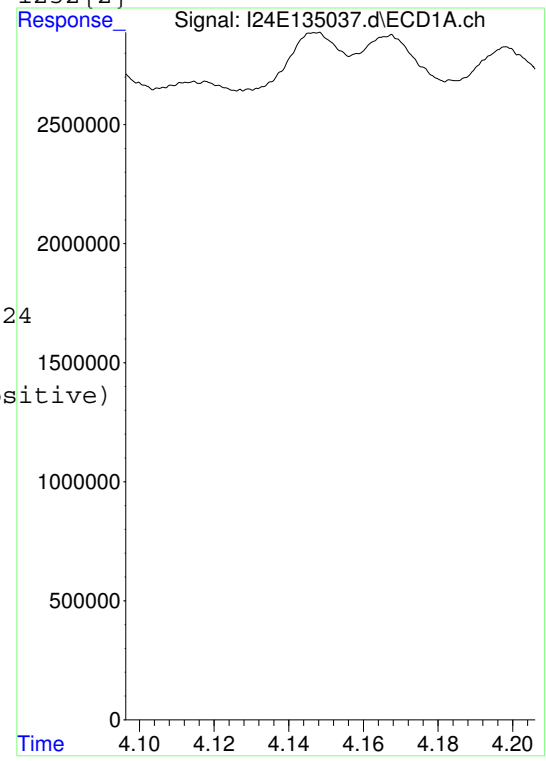
RT : 4.15
Area : 2.38395e+006
Amount: 1.68171

Manual Int. Results

Wed May 15 08:40:25 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

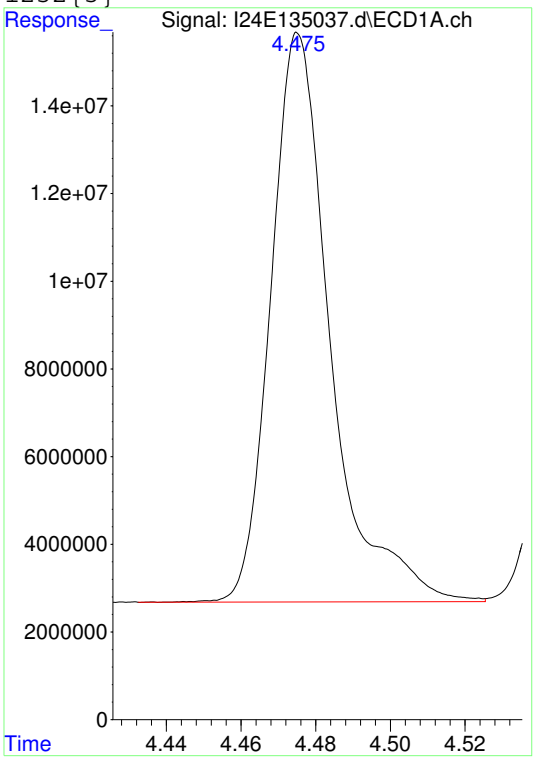
Manual Integration
1232{2}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135037.d
Acq On : 14 May 2024 8:04 pm
Operator : PJG
Sample : 24E1437-12@4X TBA
Misc :

Quant Time : Wed May 15 08:40:28 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1232{3}



Original Int. Results

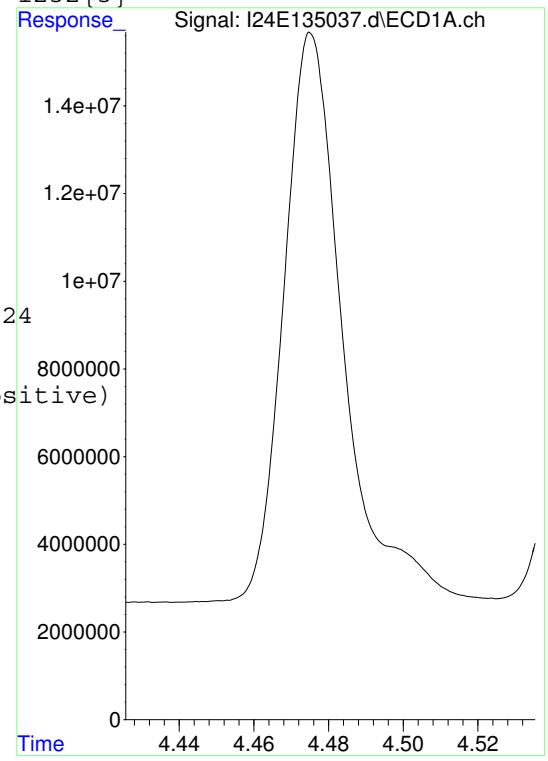
RT : 4.48
Area : 1.43781e+008
Amount: 142.917

Manual Int. Results

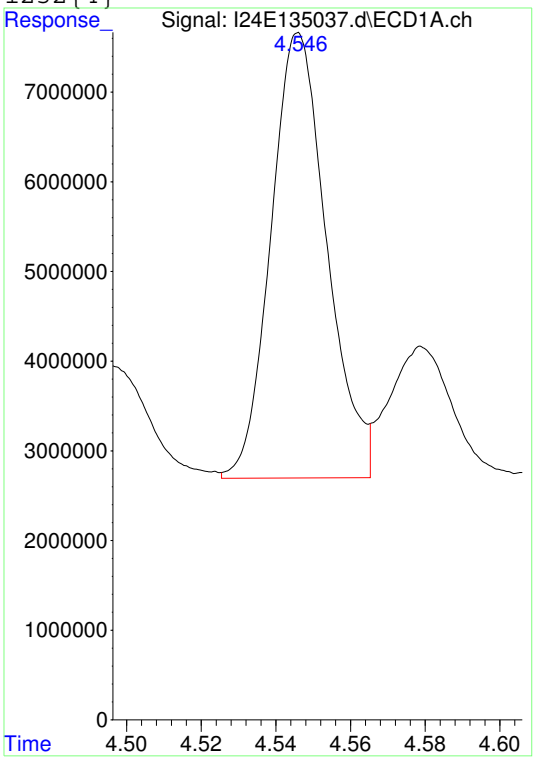
Wed May 15 08:40:25 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1232{3}



Original Integration
1232{4}



Original Int. Results

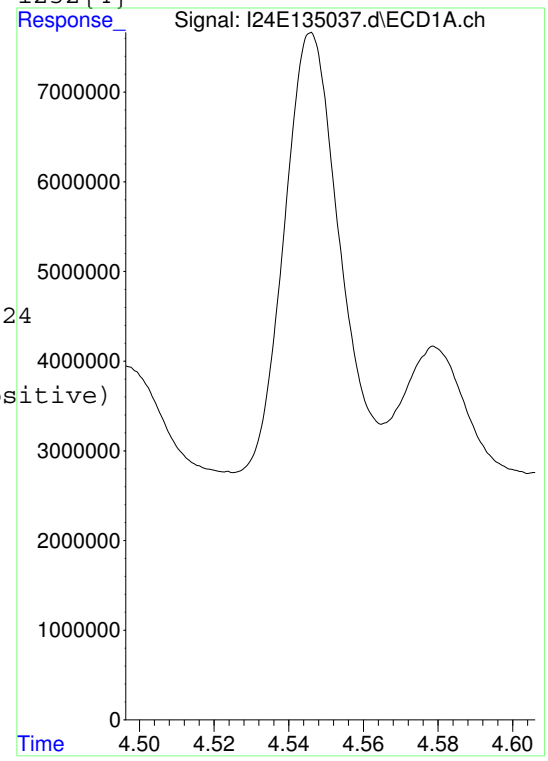
RT : 4.55
Area : 5.16152e+007
Amount: 76.3315

Manual Int. Results

Wed May 15 08:40:25 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

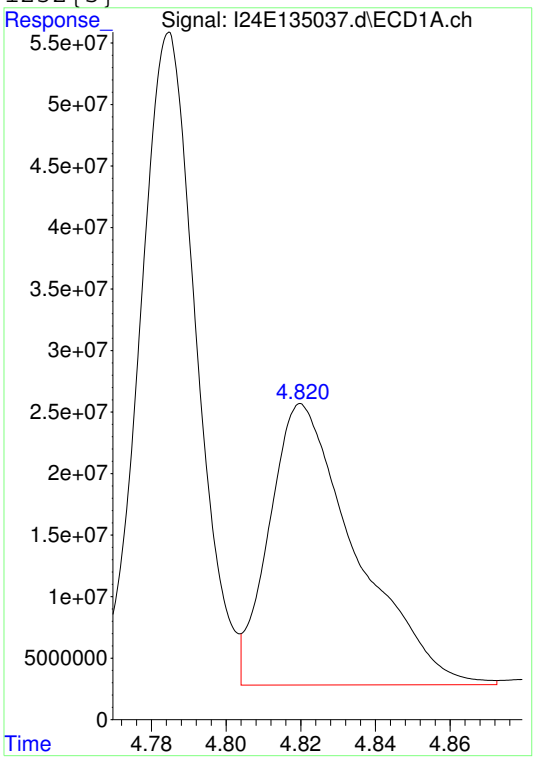
Manual Integration
1232{4}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135037.d
Acq On : 14 May 2024 8:04 pm
Operator : PJG
Sample : 24E1437-12@4X TBA
Misc :

Quant Time : Wed May 15 08:40:28 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1232{5}



Original Int. Results

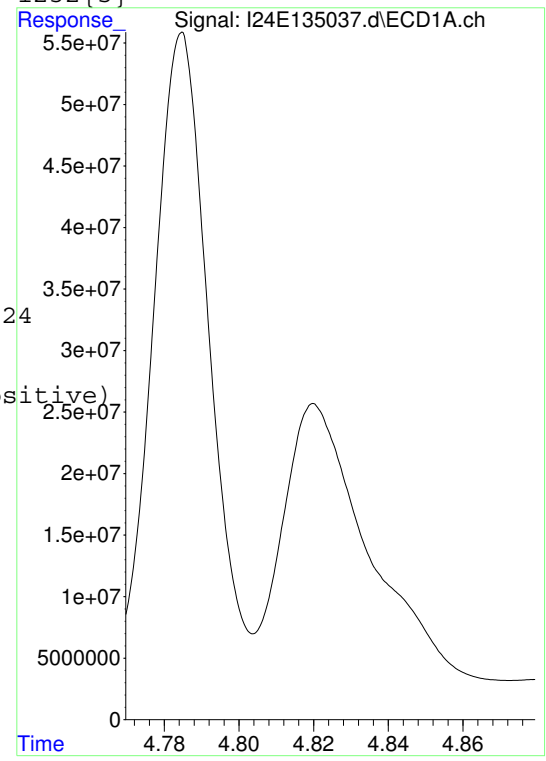
RT : 4.82
Area : 3.70474e+008
Amount: 376.467

Manual Int. Results

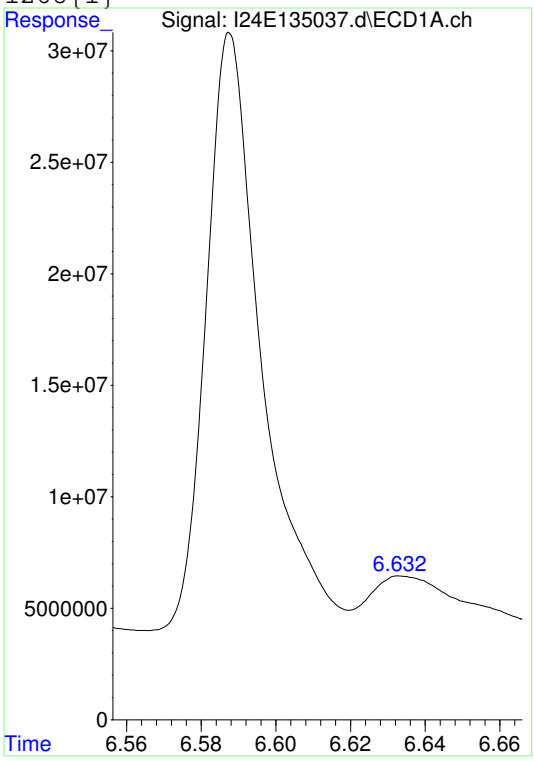
Wed May 15 08:40:25 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1232{5}



Original Integration
1268{1}



Original Int. Results

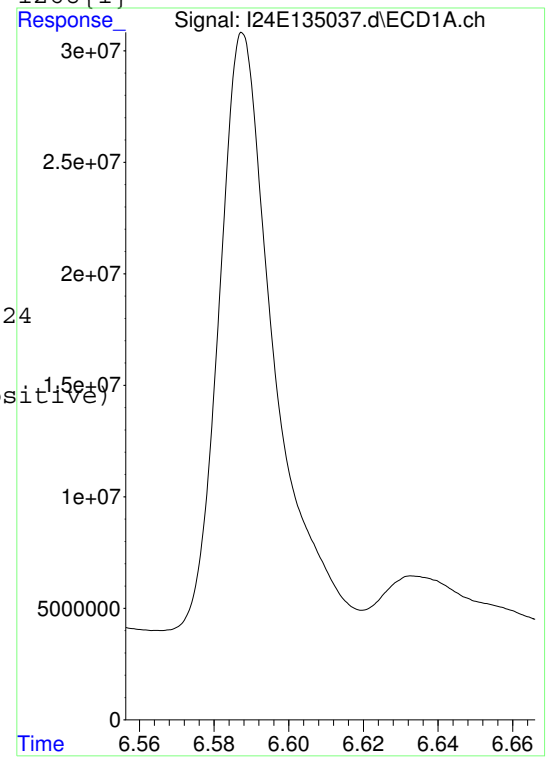
RT : 6.63
Area : 4.31556e+007
Amount: 4.10396

Manual Int. Results

Wed May 15 08:40:25 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

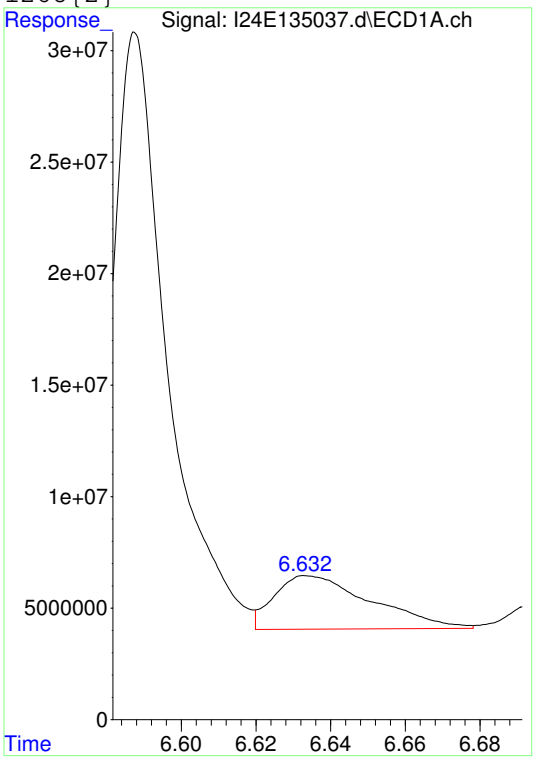
Manual Integration
1268{1}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135037.d
Acq On : 14 May 2024 8:04 pm
Operator : PJG
Sample : 24E1437-12@4X TBA
Misc :

Quant Time : Wed May 15 08:40:28 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1268{2}



Original Int. Results

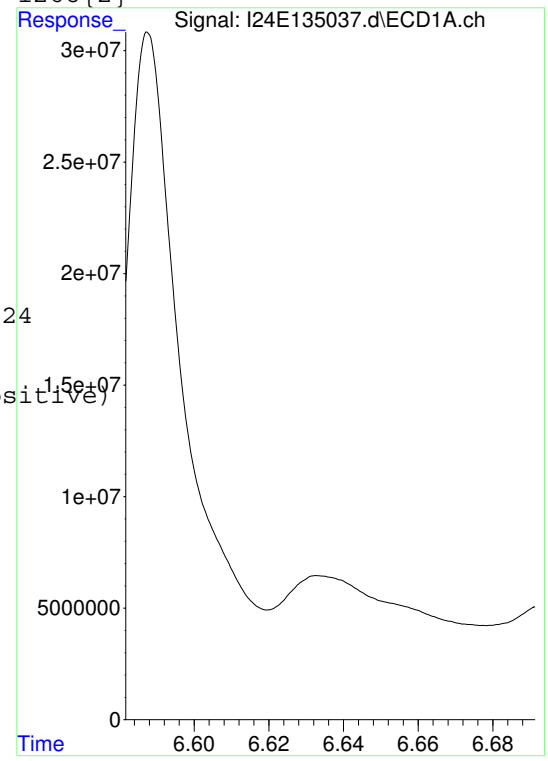
RT : 6.63
Area : 4.31556e+007
Amount: 4.03037

Manual Int. Results

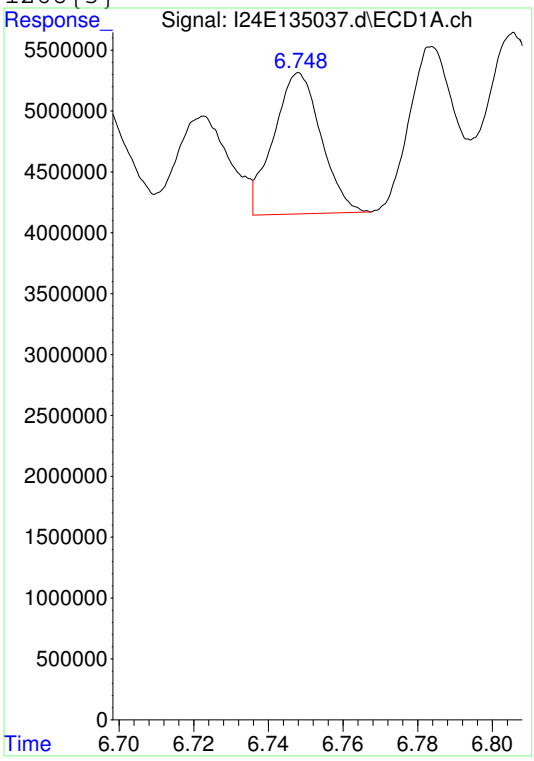
Wed May 15 08:40:24 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1268{2}



Original Integration
1268{3}



Original Int. Results

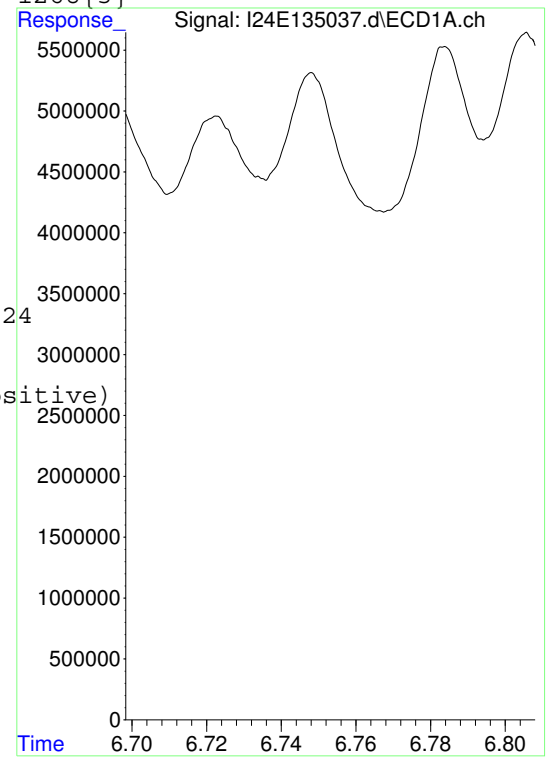
RT : 6.75
Area : 1.02691e+007
Amount: 1.06815

Manual Int. Results

Wed May 15 08:40:24 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

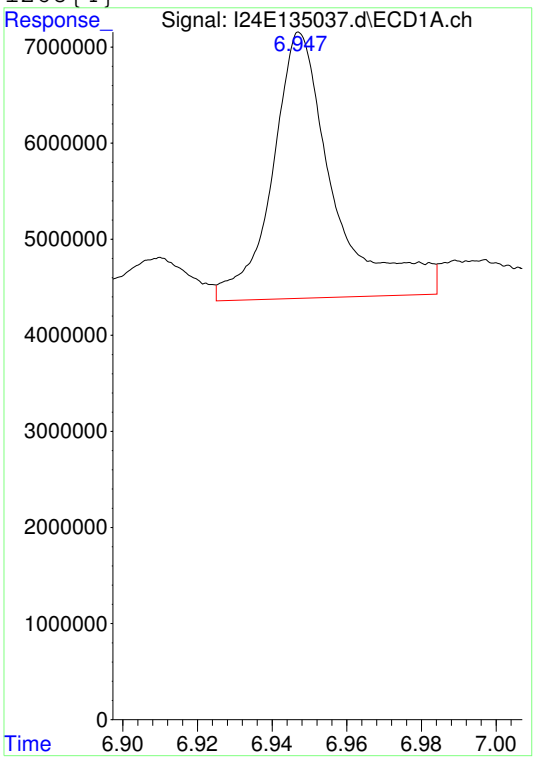
Manual Integration
1268{3}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135037.d
Acq On : 14 May 2024 8:04 pm
Operator : PJG
Sample : 24E1437-12@4X TBA
Misc :

Quant Time : Wed May 15 08:40:28 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1268{4}



Original Int. Results

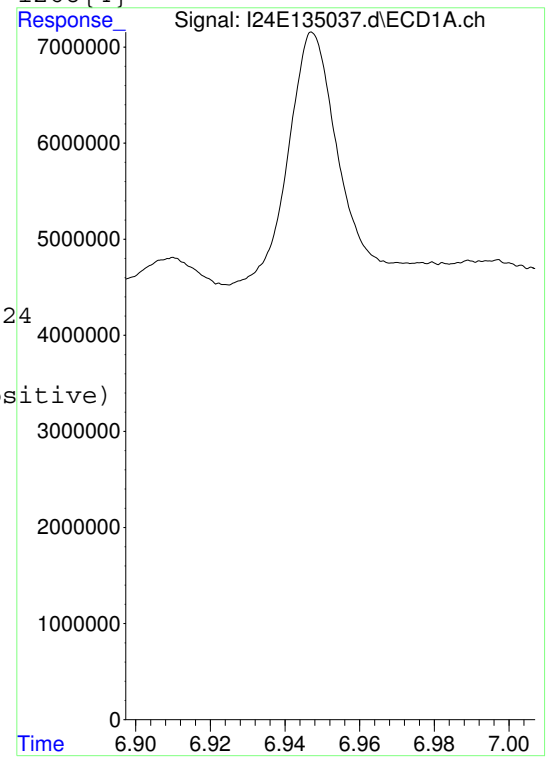
RT : 6.95
Area : 3.14904e+007
Amount: 10.7658

Manual Int. Results

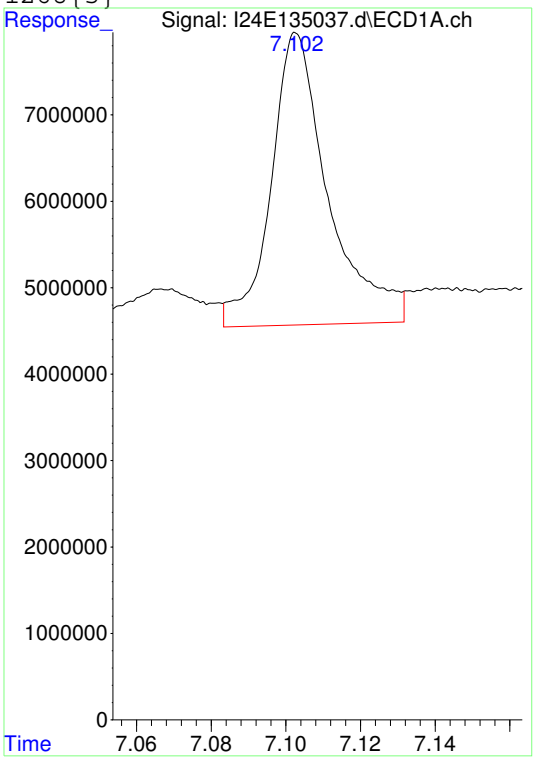
Wed May 15 08:40:24 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1268{4}



Original Integration
1268{5}



Original Int. Results

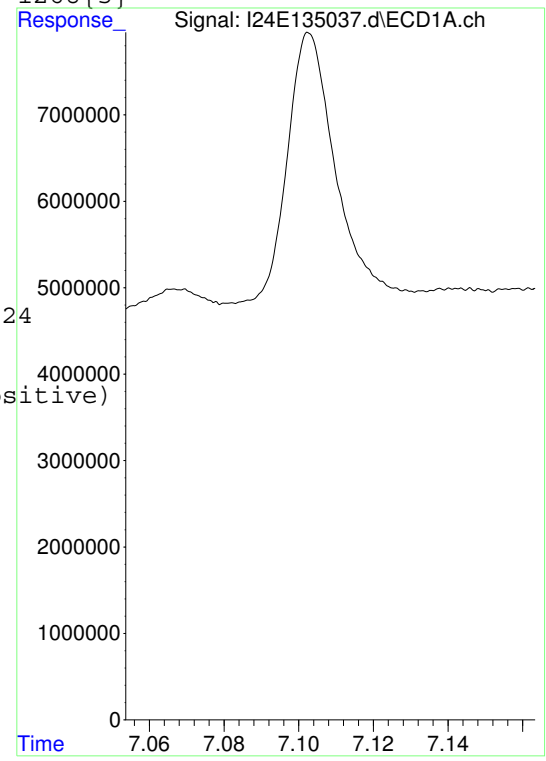
RT : 7.10
Area : 3.58375e+007
Amount: 1.44996

Manual Int. Results

Wed May 15 08:40:24 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

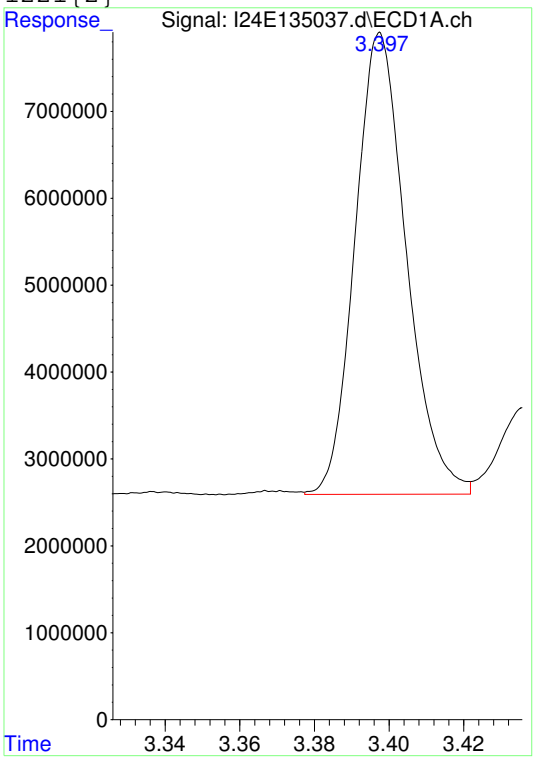
Manual Integration
1268{5}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135037.d
Acq On : 14 May 2024 8:04 pm
Operator : PJG
Sample : 24E1437-12@4X TBA
Misc :

Quant Time : Wed May 15 08:40:28 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1221{2}



Original Int. Results

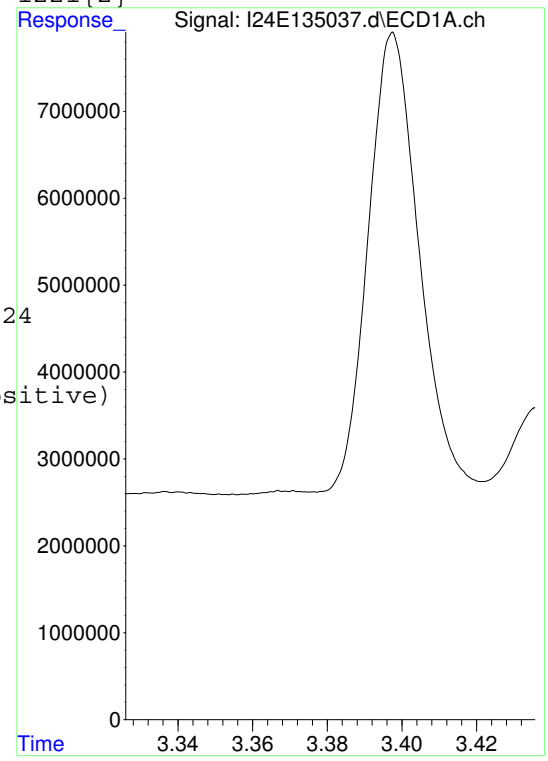
RT : 3.40
Area : 5.06482e+007
Amount: 24.5076

Manual Int. Results

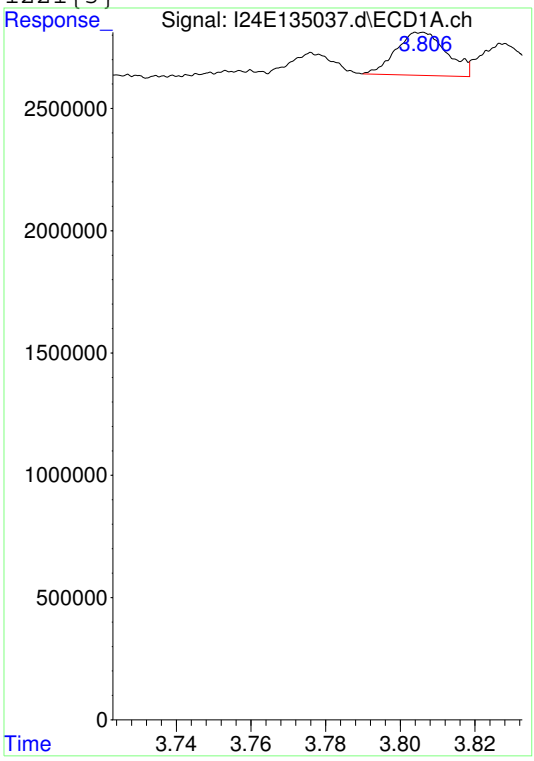
Wed May 15 08:40:23 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1221{2}



Original Integration
1221{3}



Original Int. Results

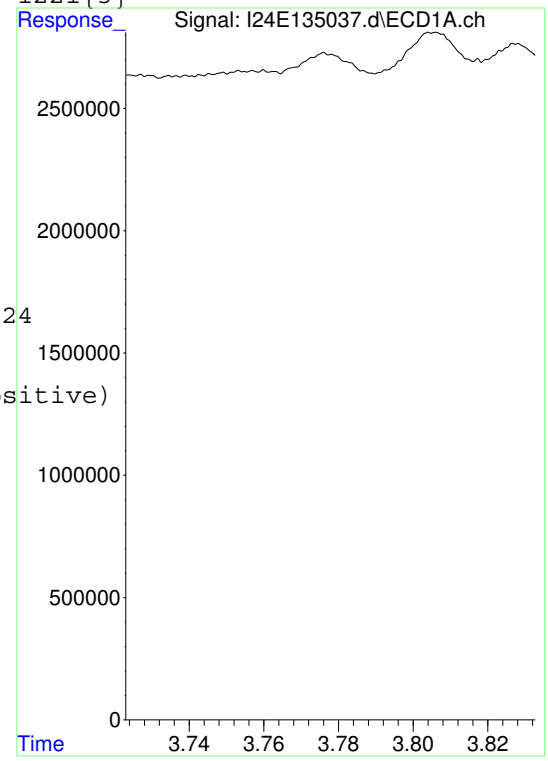
RT : 3.81
Area : 1.6543e+006
Amount: 5.68596

Manual Int. Results

Wed May 15 08:40:23 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

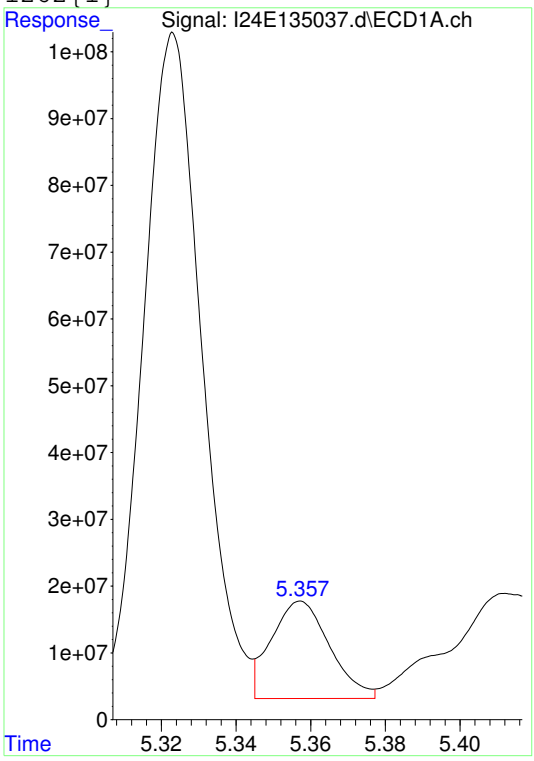
Manual Integration
1221{3}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135037.d
Acq On : 14 May 2024 8:04 pm
Operator : PJG
Sample : 24E1437-12@4X TBA
Misc :

Quant Time : Wed May 15 08:40:28 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1262{1}



Original Int. Results

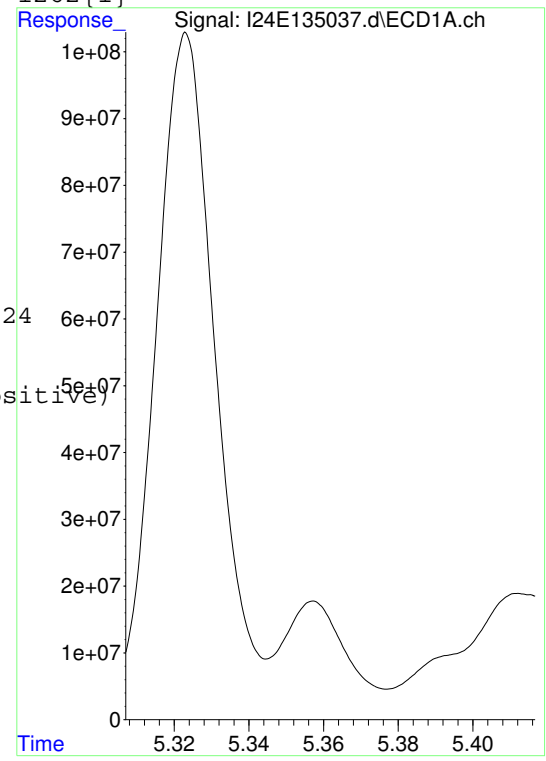
RT : 5.36
Area : 1.5875e+008
Amount: 78.1486

Manual Int. Results

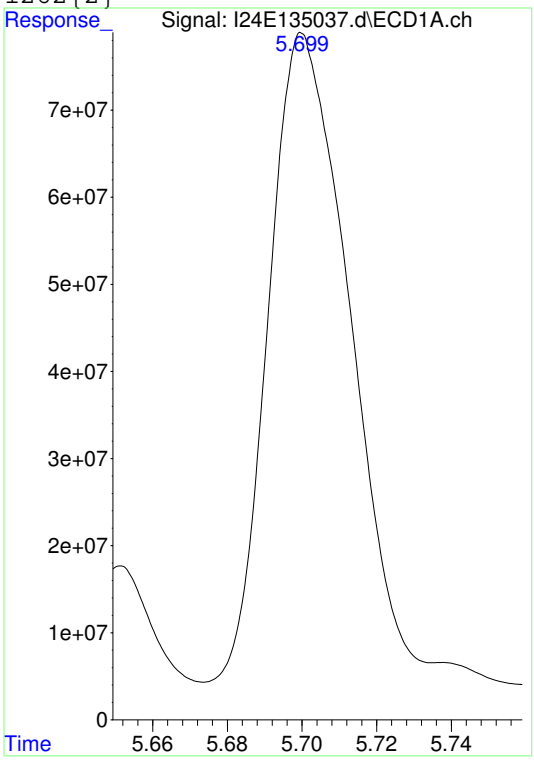
Wed May 15 08:40:23 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1262{1}



Original Integration
1262{2}



Original Int. Results

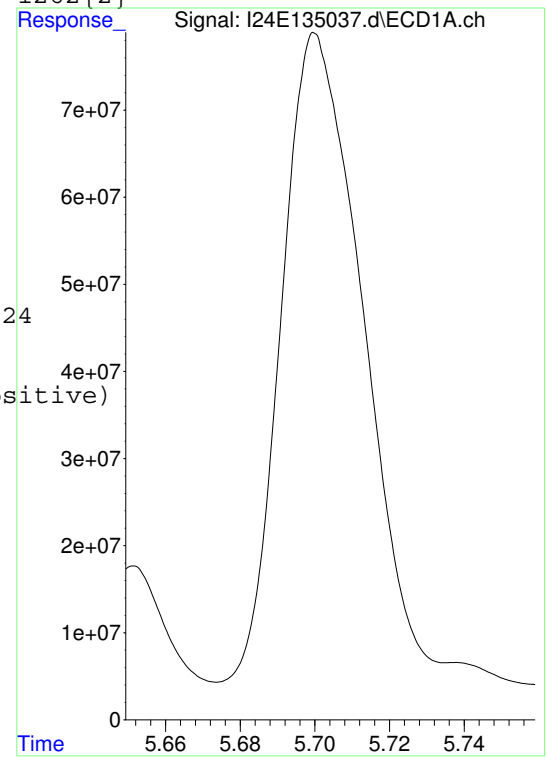
RT : 5.70
Area : 1.18011e+009
Amount: 252.459

Manual Int. Results

Wed May 15 08:40:23 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

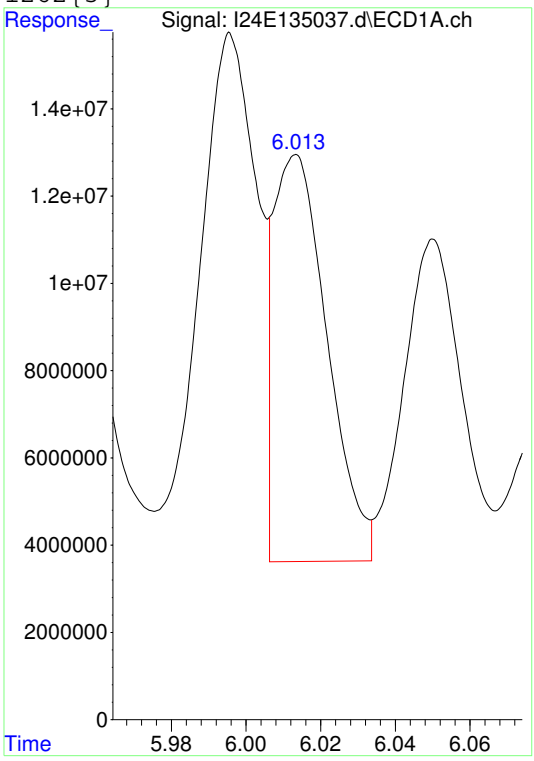
Manual Integration
1262{2}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135037.d
Acq On : 14 May 2024 8:04 pm
Operator : PJG
Sample : 24E1437-12@4X TBA
Misc :

Quant Time : Wed May 15 08:40:28 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1262{3}



Original Int. Results

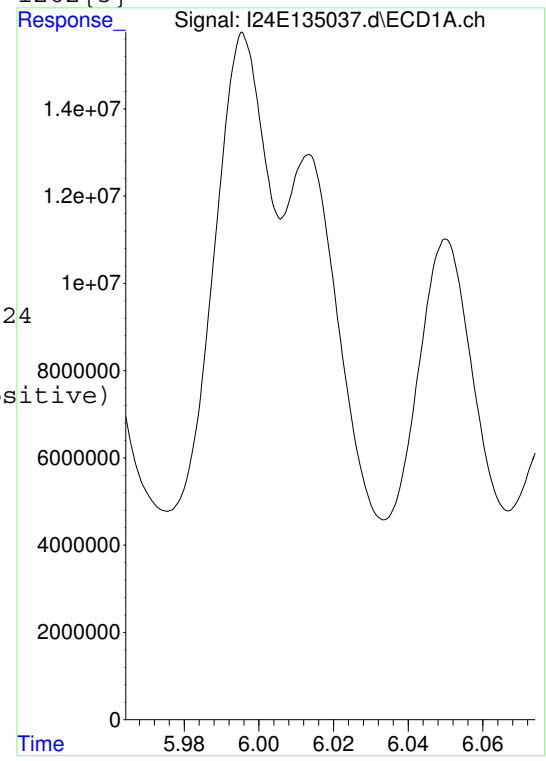
RT : 6.01
Area : 9.40436e+007
Amount: 18.9947

Manual Int. Results

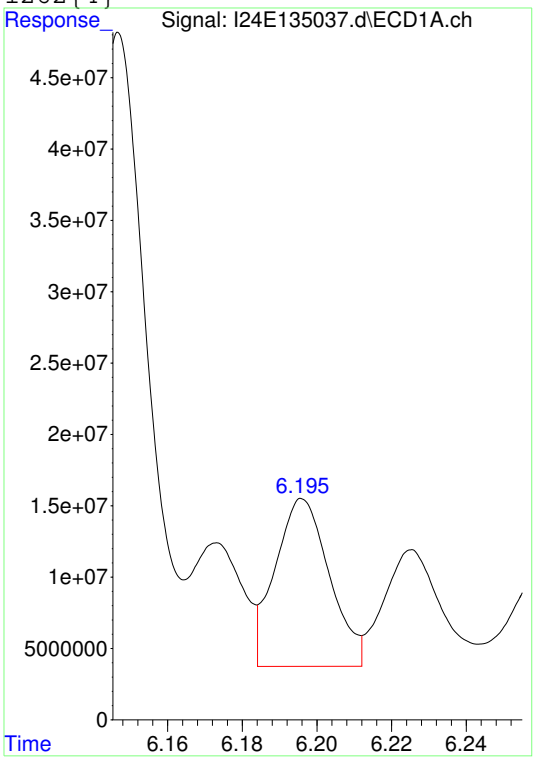
Wed May 15 08:40:23 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1262{3}



Original Integration
1262{4}



Original Int. Results

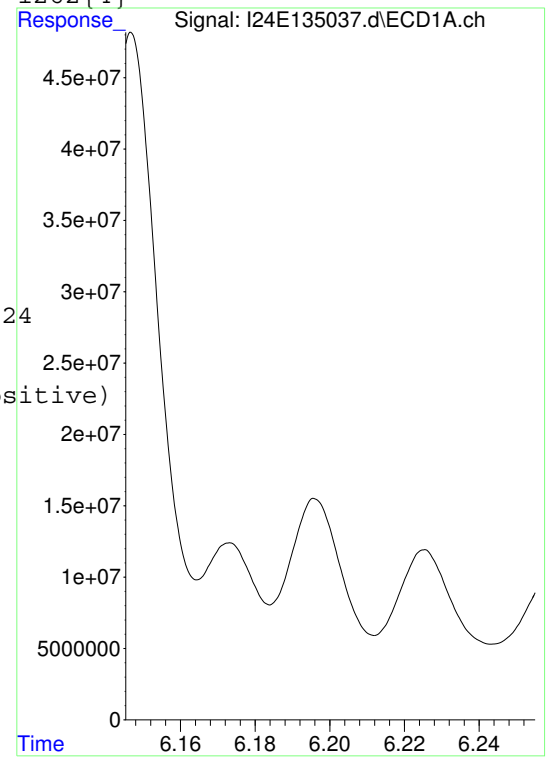
RT : 6.20
Area : 1.19259e+008
Amount: 26.3661

Manual Int. Results

Wed May 15 08:40:22 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

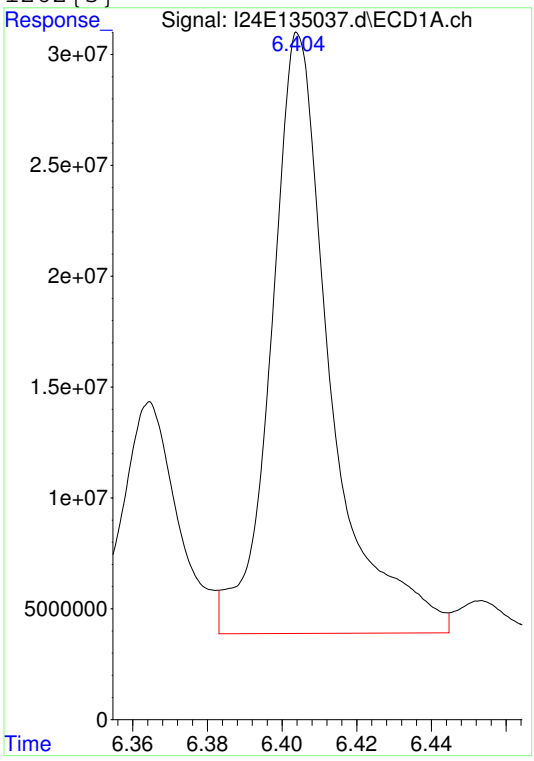
Manual Integration
1262{4}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135037.d
Acq On : 14 May 2024 8:04 pm
Operator : PJG
Sample : 24E1437-12@4X TBA
Misc :

Quant Time : Wed May 15 08:40:28 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1262{5}



Original Int. Results

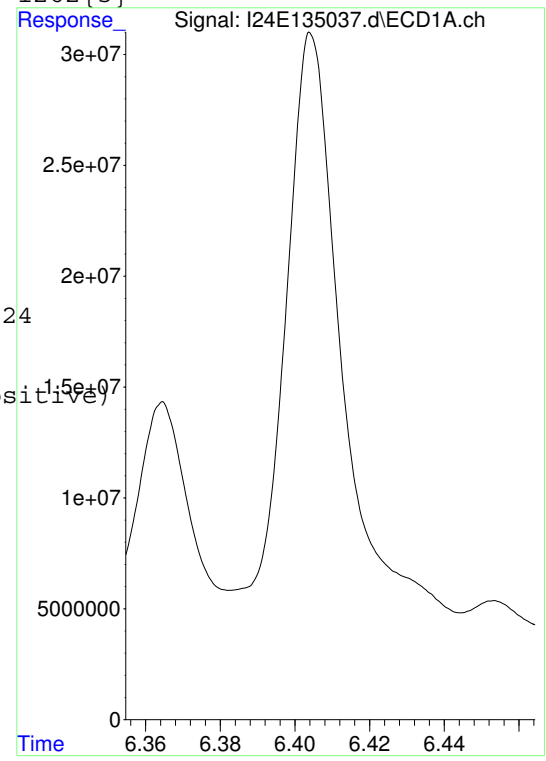
RT : 6.40
Area : 2.99346e+008
Amount: 29.707

Manual Int. Results

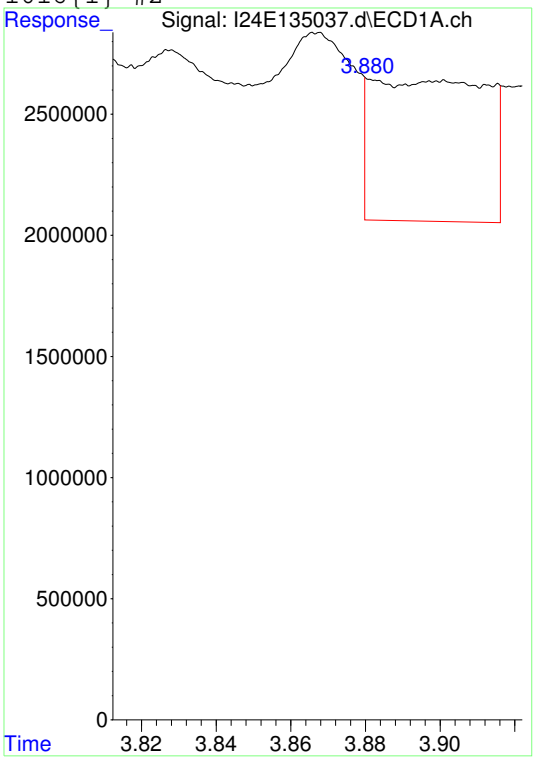
Wed May 15 08:40:22 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1262{5}



Original Integration
1016{1} #2



Original Int. Results

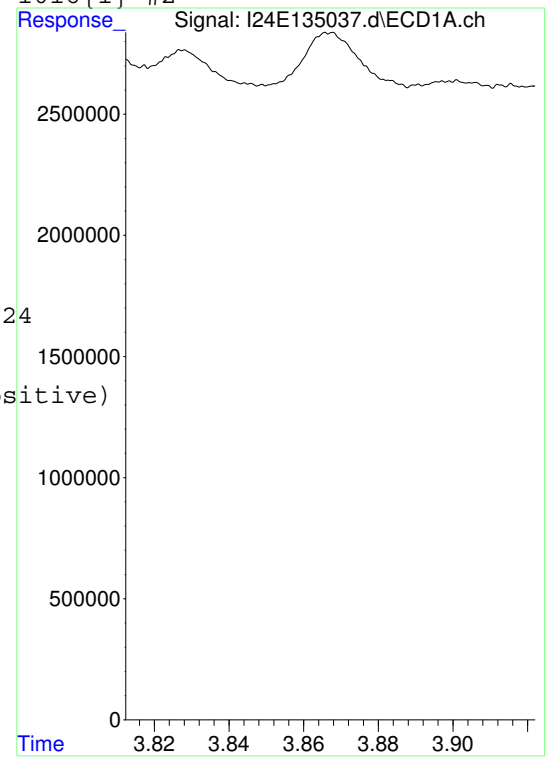
RT : 3.89
Area : 1.06095e+006
Amount: 1.40196

Manual Int. Results

Wed May 15 08:40:15 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

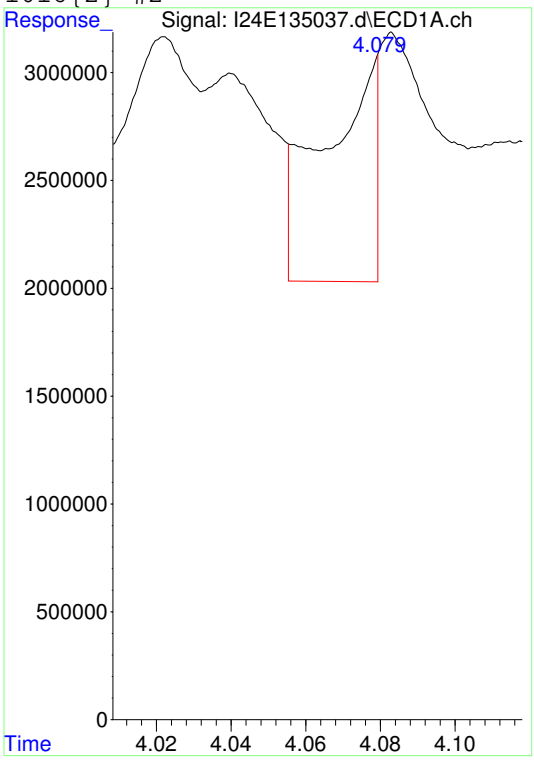
Manual Integration
1016{1} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135037.d
Acq On : 14 May 2024 8:04 pm
Operator : PJG
Sample : 24E1437-12@4X TBA
Misc :

Quant Time : Wed May 15 08:40:28 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1016{2} #2



Original Int. Results

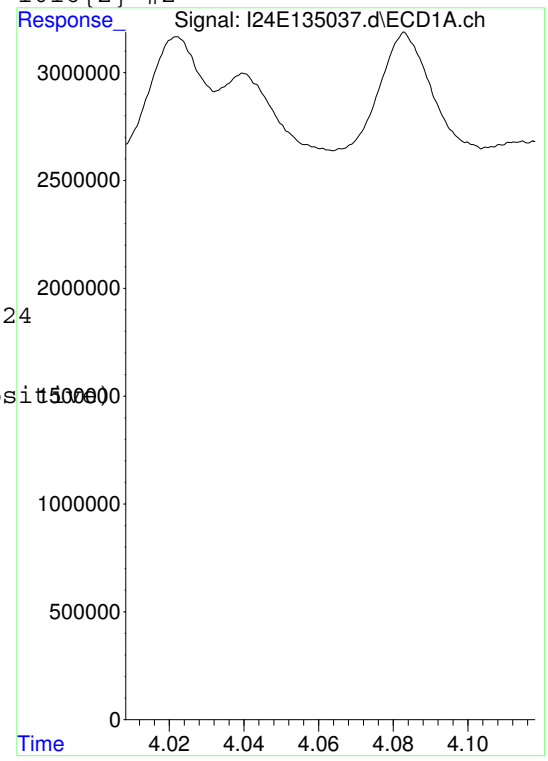
RT : 4.06
Area : 2.86032e+006
Amount: 0.88376

Manual Int. Results

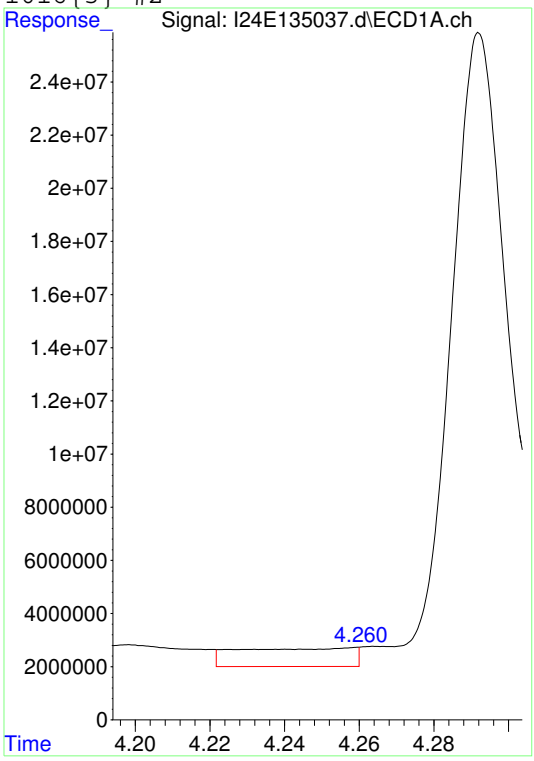
Wed May 15 08:40:15 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1016{2} #2



Original Integration
1016{3} #2



Original Int. Results

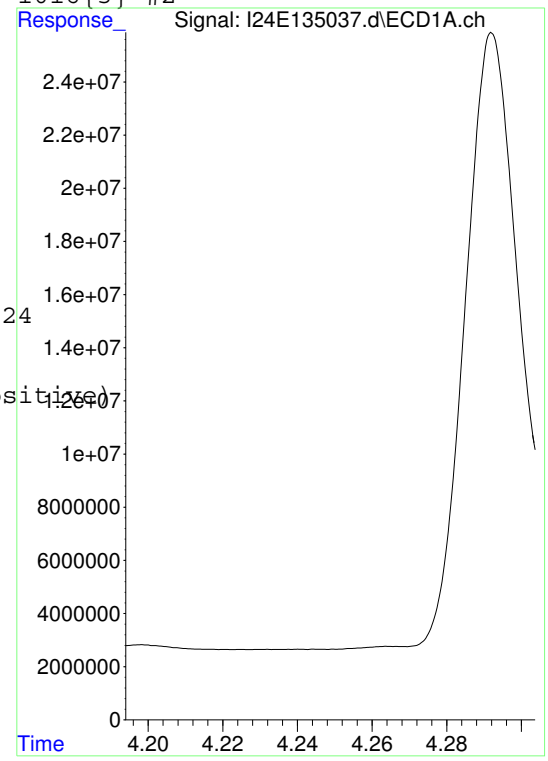
RT : 4.25
Area : 1.53192e+006
Amount: 1.17449

Manual Int. Results

Wed May 15 08:40:14 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

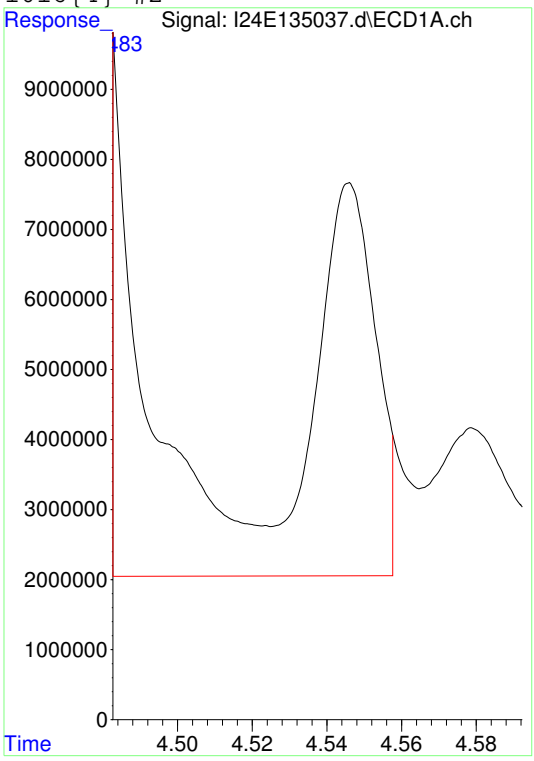
Manual Integration
1016{3} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135037.d
Acq On : 14 May 2024 8:04 pm
Operator : PJG
Sample : 24E1437-12@4X TBA
Misc :

Quant Time : Wed May 15 08:40:28 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1016{4} #2



Original Int. Results

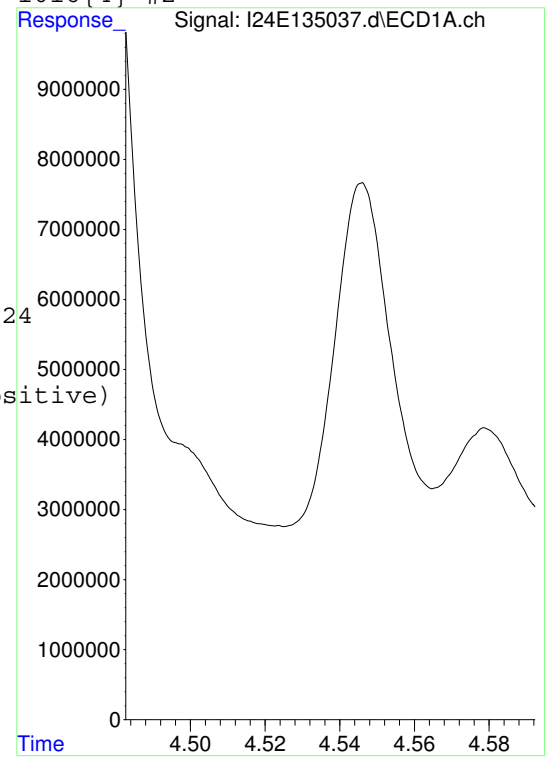
RT : 4.54
Area : 1.02882e+008
Amount: 60.9985

Manual Int. Results

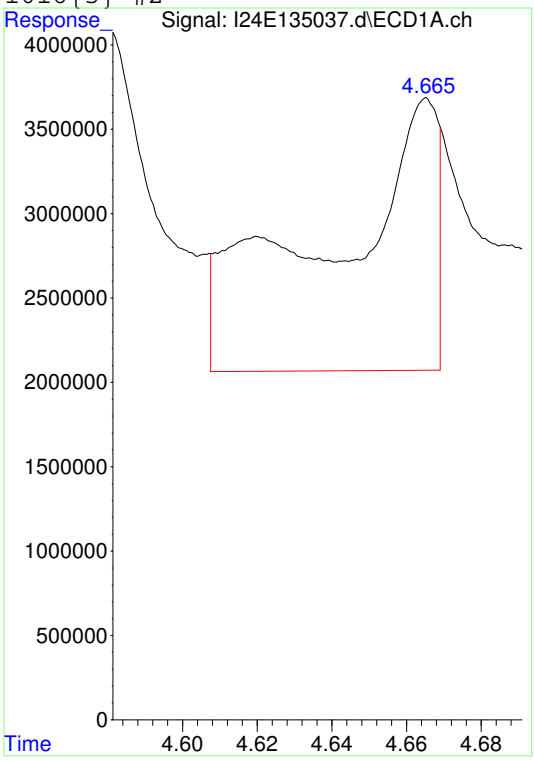
Wed May 15 08:40:14 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1016{4} #2



Original Integration
1016{5} #2



Original Int. Results

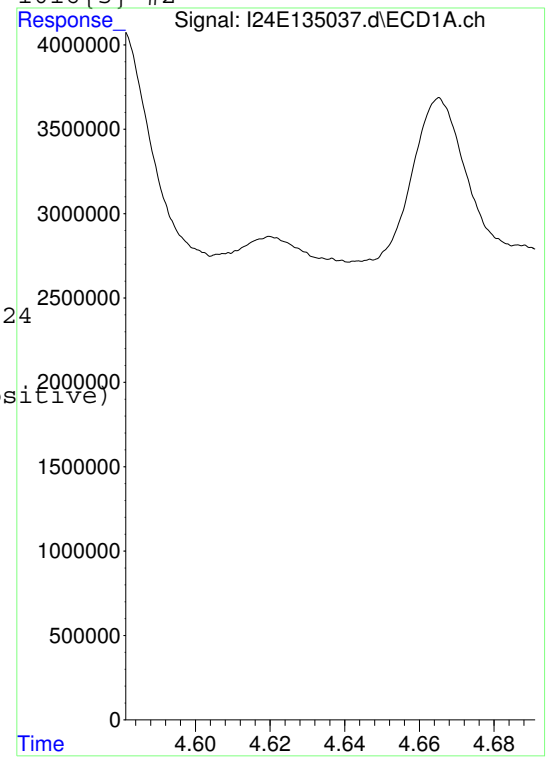
RT : 4.63
Area : 4.63834e+007
Amount: 29.2912

Manual Int. Results

Wed May 15 08:40:14 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

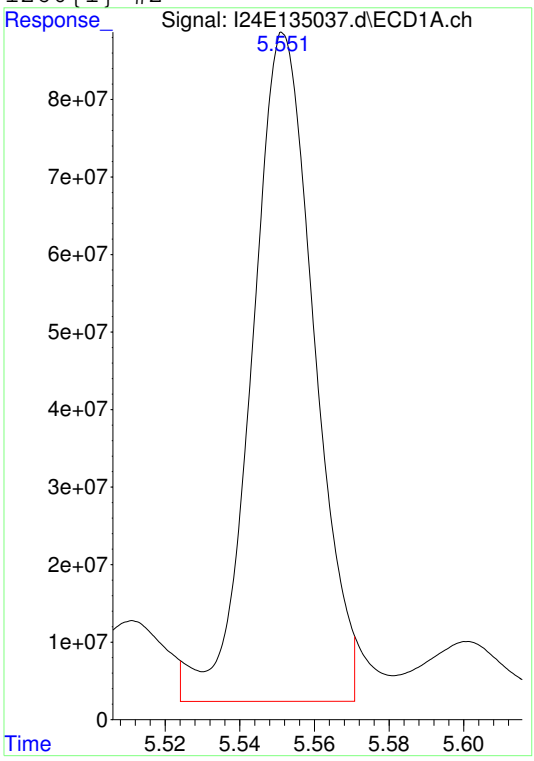
Manual Integration
1016{5} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135037.d
Acq On : 14 May 2024 8:04 pm
Operator : PJG
Sample : 24E1437-12@4X TBA
Misc :

Quant Time : Wed May 15 08:40:28 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1260{1} #2



Original Int. Results

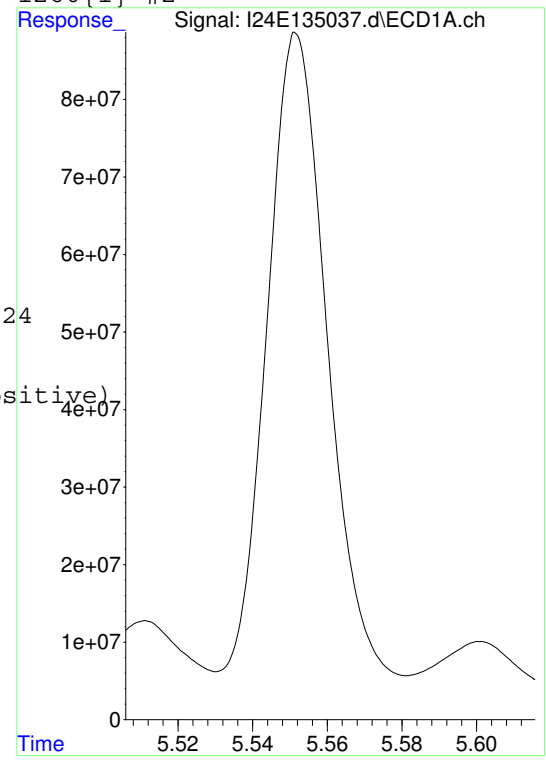
RT : 5.56
Area : 5.82751e+008
Amount: 168.84

Manual Int. Results

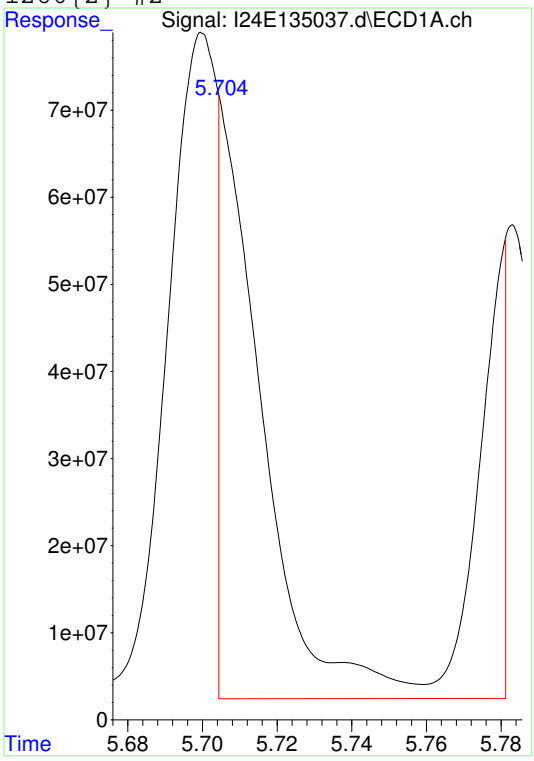
Wed May 15 08:40:14 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1260{1} #2



Original Integration
1260{2} #2



Original Int. Results

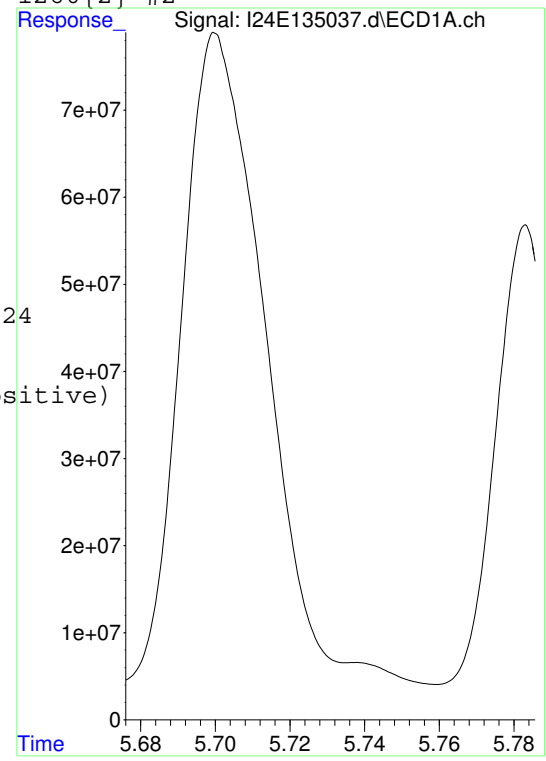
RT : 5.73
Area : 6.65954e+008
Amount: 165.181

Manual Int. Results

Wed May 15 08:40:14 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

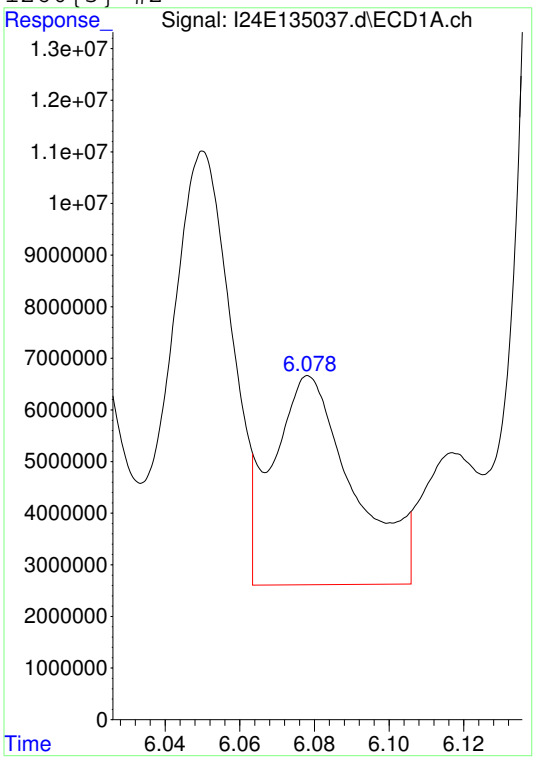
Manual Integration
1260{2} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135037.d
Acq On : 14 May 2024 8:04 pm
Operator : PJG
Sample : 24E1437-12@4X TBA
Misc :

Quant Time : Wed May 15 08:40:28 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1260{3} #2



Original Int. Results

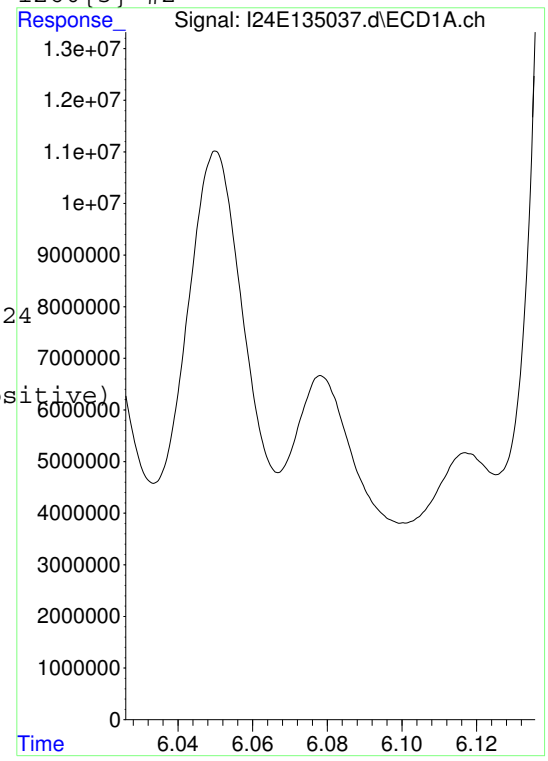
RT : 6.09
Area : 1.52341e+008
Amount: 50.3844

Manual Int. Results

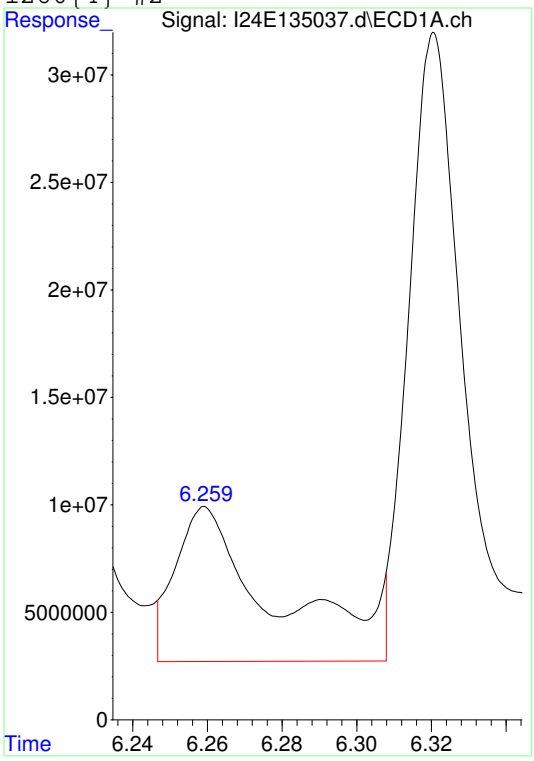
Wed May 15 08:40:13 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1260{3} #2



Original Integration
1260{4} #2



Original Int. Results

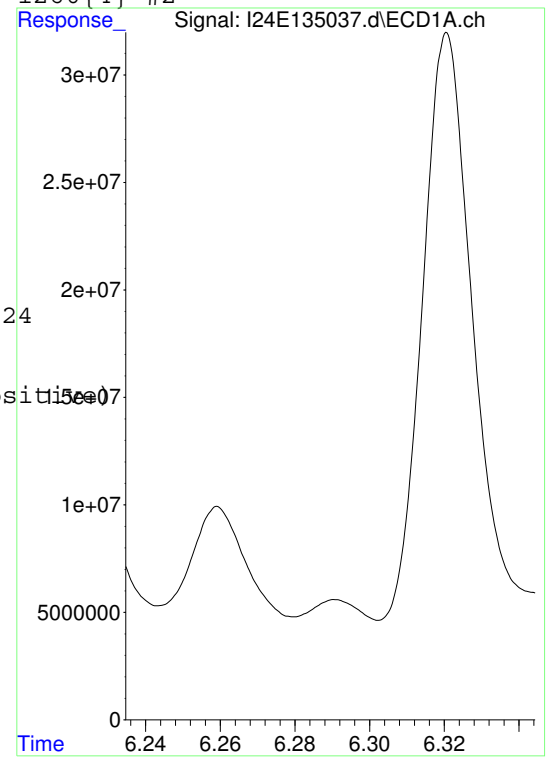
RT : 6.27
Area : 4.38865e+008
Amount: 128.577

Manual Int. Results

Wed May 15 08:40:13 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

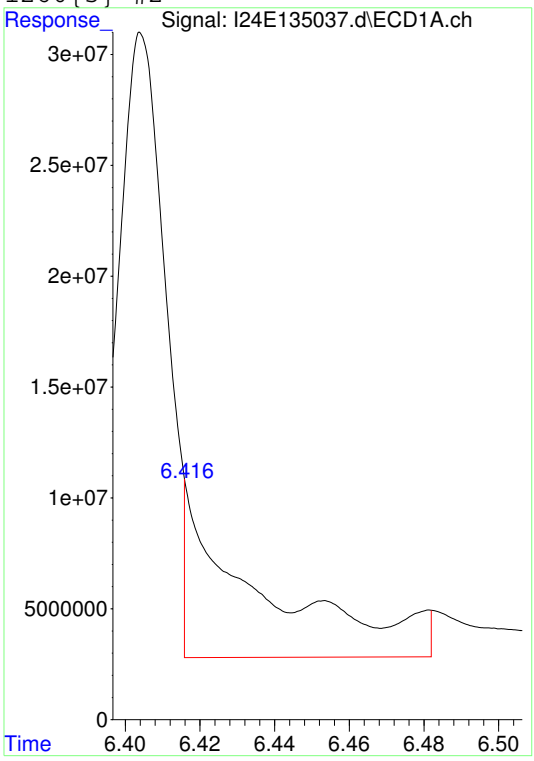
Manual Integration
1260{4} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135037.d
Acq On : 14 May 2024 8:04 pm
Operator : PJG
Sample : 24E1437-12@4X TBA
Misc :

Quant Time : Wed May 15 08:40:28 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1260{5} #2



Original Int. Results

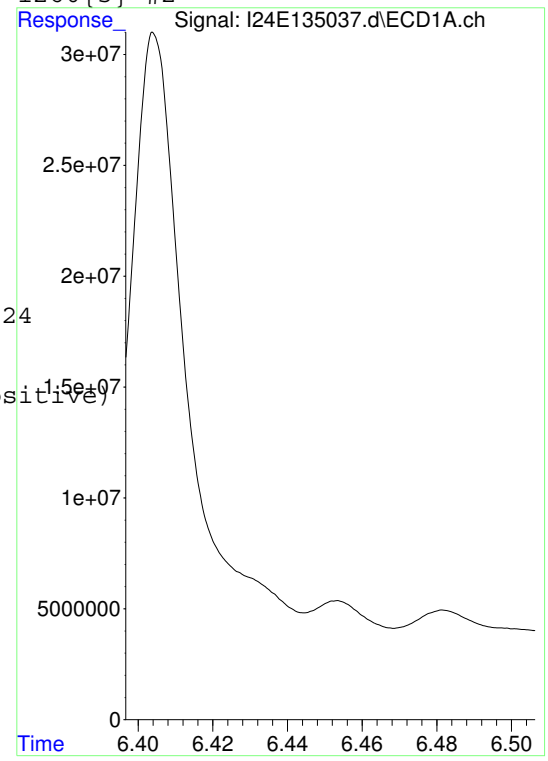
RT : 6.45
Area : 2.7749e+008
Amount: 38.485

Manual Int. Results

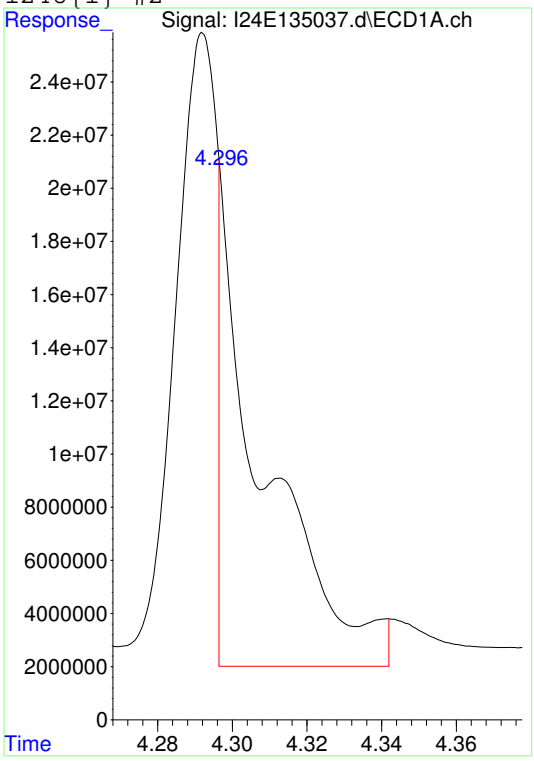
Wed May 15 08:40:13 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1260{5} #2



Original Integration
1248{1} #2



Original Int. Results

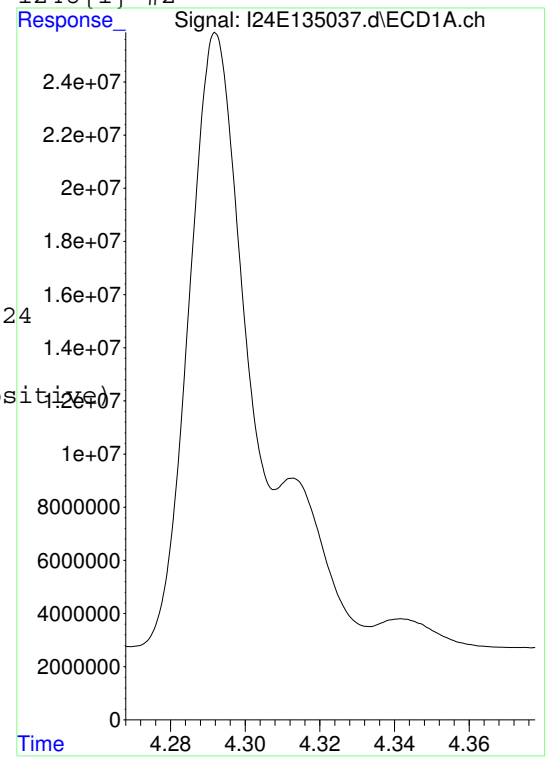
RT : 4.32
Area : 1.91984e+008
Amount: 121.507

Manual Int. Results

Wed May 15 08:40:28 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

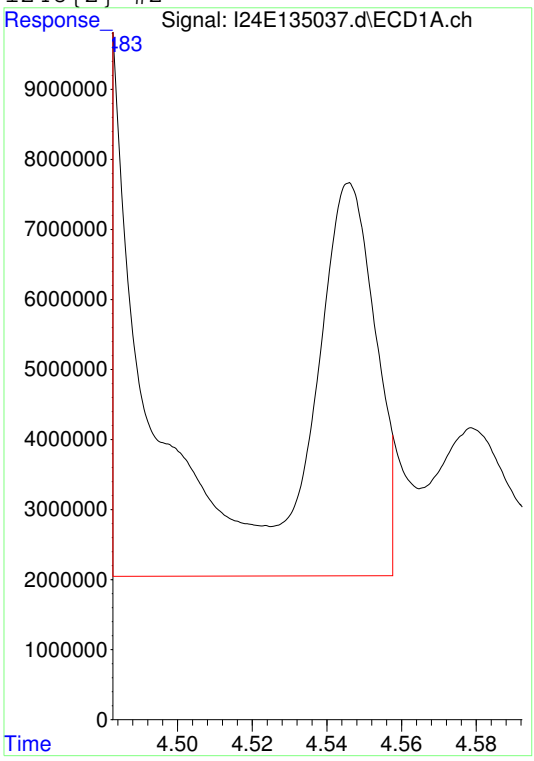
Manual Integration
1248{1} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135037.d
Acq On : 14 May 2024 8:04 pm
Operator : PJG
Sample : 24E1437-12@4X TBA
Misc :

Quant Time : Wed May 15 08:40:28 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1248{2} #2



Original Int. Results

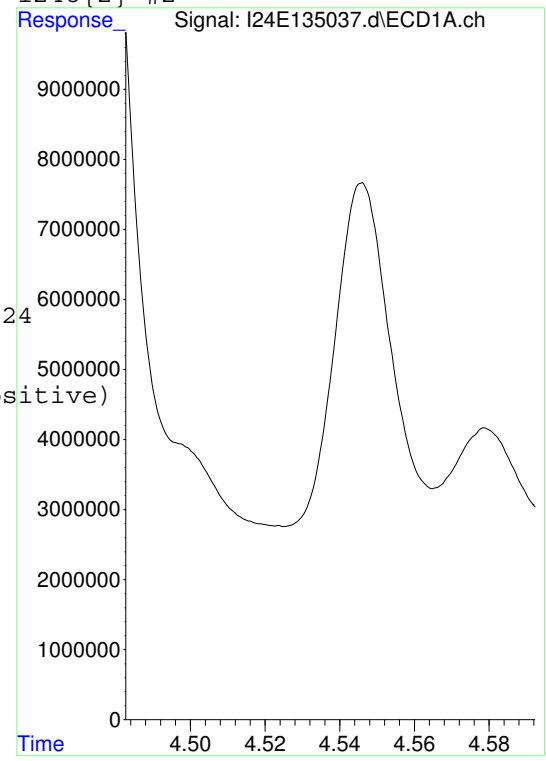
RT : 4.54
Area : 1.02882e+008
Amount: 50.5998

Manual Int. Results

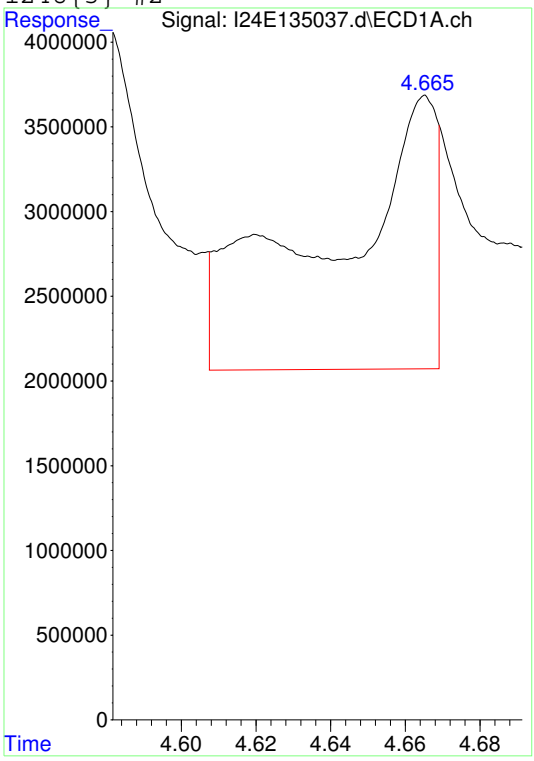
Wed May 15 08:40:28 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1248{2} #2



Original Integration
1248{3} #2



Original Int. Results

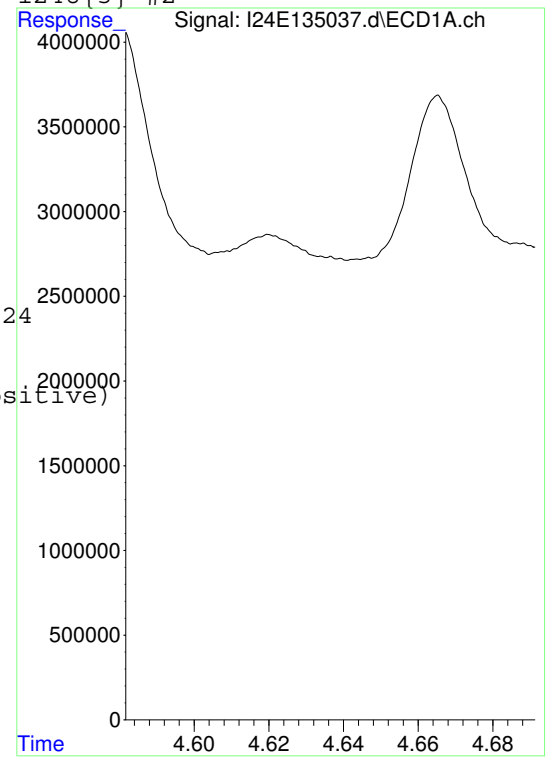
RT : 4.63
Area : 4.63834e+007
Amount: 20.1617

Manual Int. Results

Wed May 15 08:40:27 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

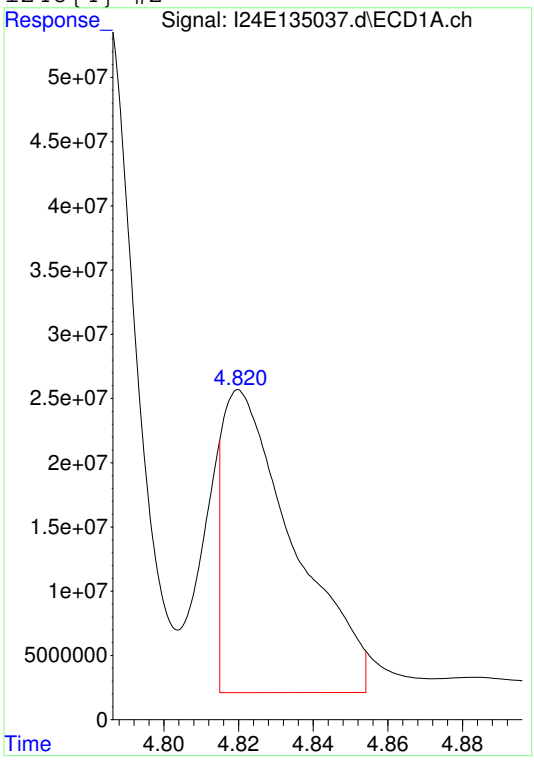
Manual Integration
1248{3} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135037.d
Acq On : 14 May 2024 8:04 pm
Operator : PJG
Sample : 24E1437-12@4X TBA
Misc :

Quant Time : Wed May 15 08:40:28 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1248{4} #2



Original Int. Results

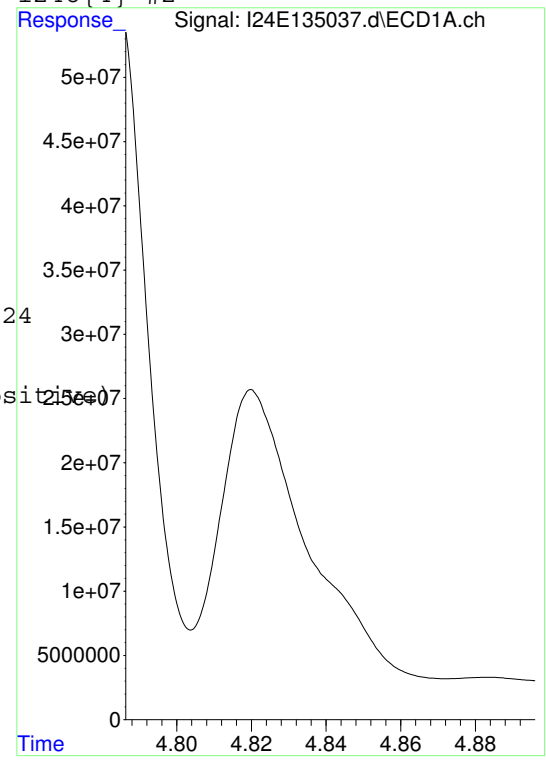
RT : 4.84
Area : 1.79395e+008
Amount: 74.7536

Manual Int. Results

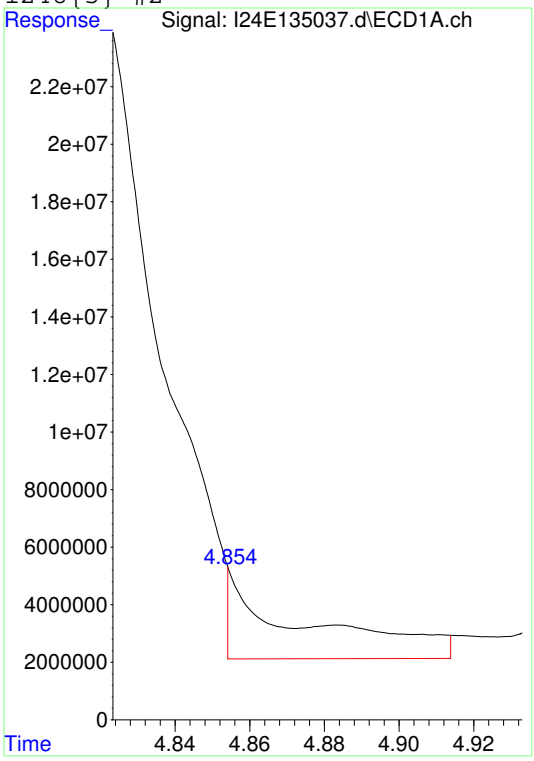
Wed May 15 08:40:27 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1248{4} #2



Original Integration
1248{5} #2



Original Int. Results

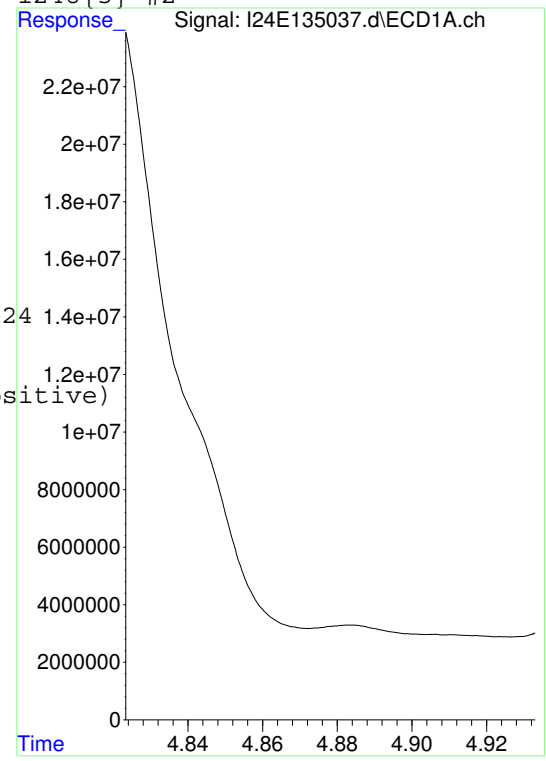
RT : 4.87
Area : 4.96964e+008
Amount: 178.031

Manual Int. Results

Wed May 15 08:40:27 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

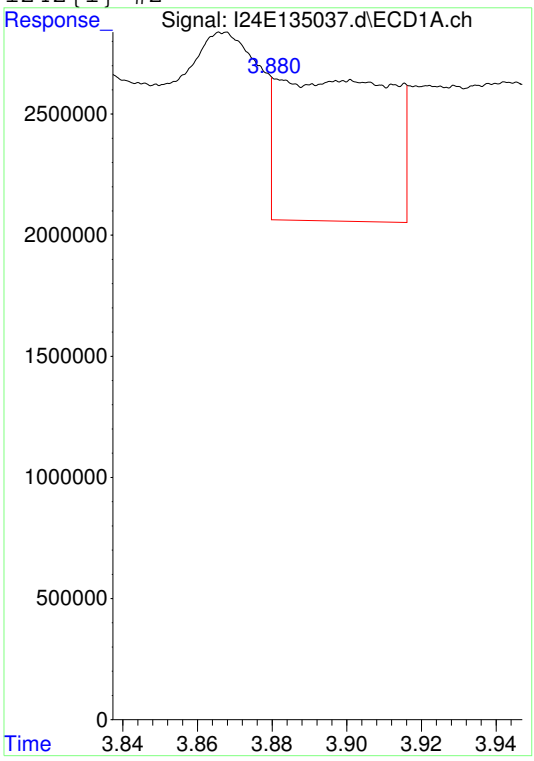
Manual Integration
1248{5} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135037.d
Acq On : 14 May 2024 8:04 pm
Operator : PJG
Sample : 24E1437-12@4X TBA
Misc :

Quant Time : Wed May 15 08:40:28 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1242{1} #2



Original Int. Results

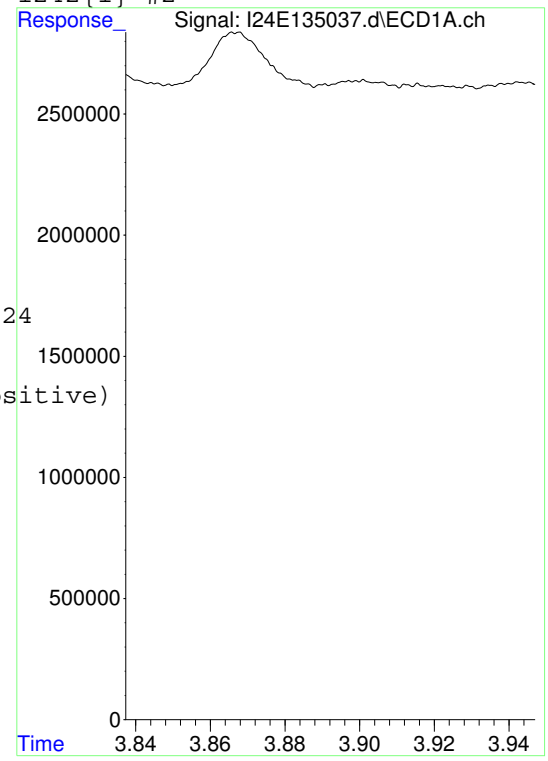
RT : 3.89
Area : 1.06095e+006
Amount: 1.43522

Manual Int. Results

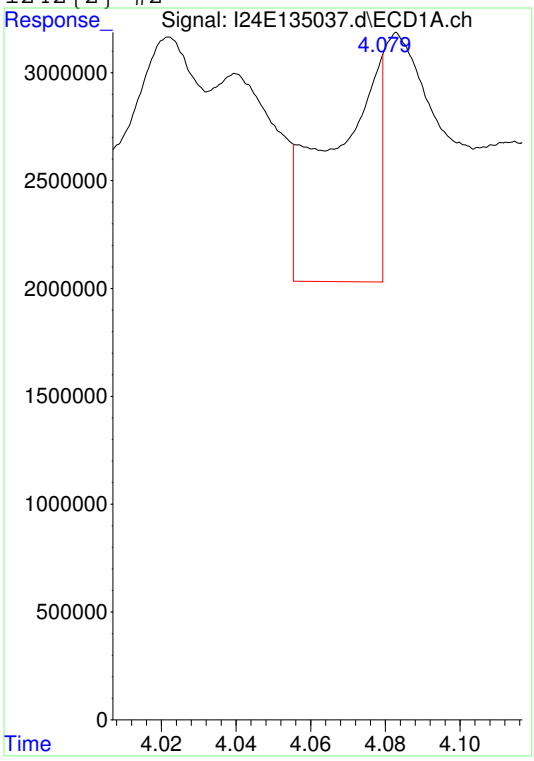
Wed May 15 08:40:27 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1242{1} #2



Original Integration
1242{2} #2



Original Int. Results

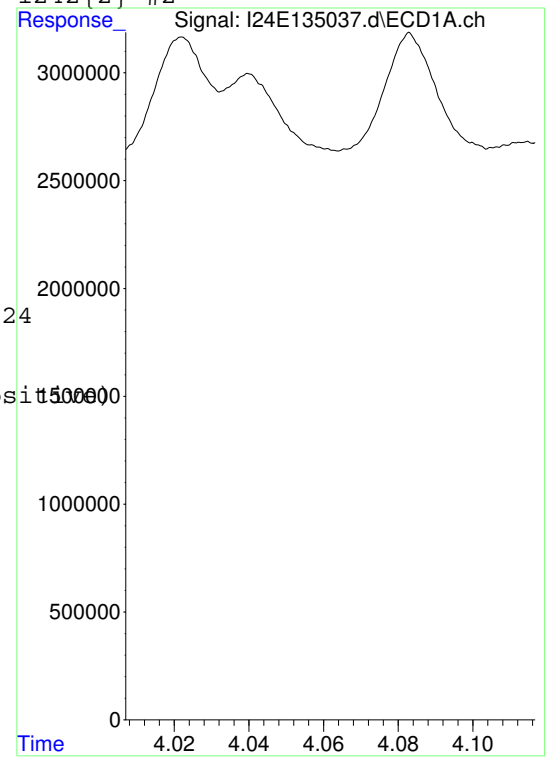
RT : 4.06
Area : 2.86032e+006
Amount: 1.26689

Manual Int. Results

Wed May 15 08:40:27 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

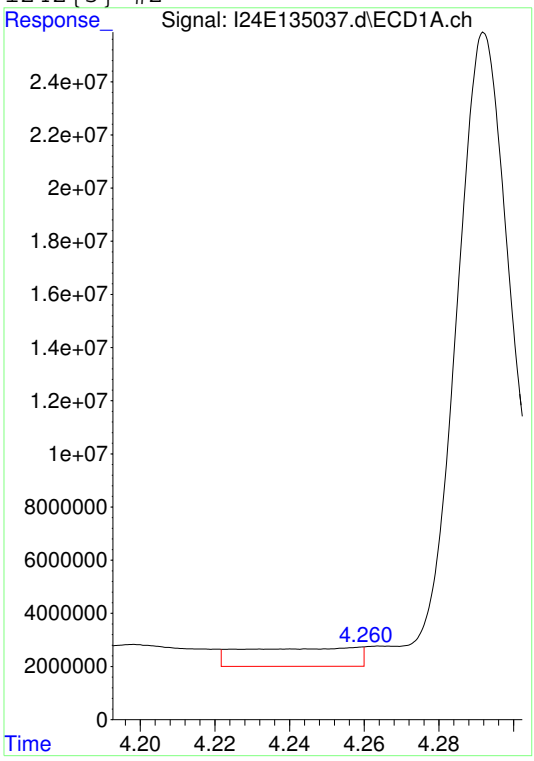
Manual Integration
1242{2} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135037.d
Acq On : 14 May 2024 8:04 pm
Operator : PJG
Sample : 24E1437-12@4X TBA
Misc :

Quant Time : Wed May 15 08:40:28 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1242{3} #2



Original Int. Results

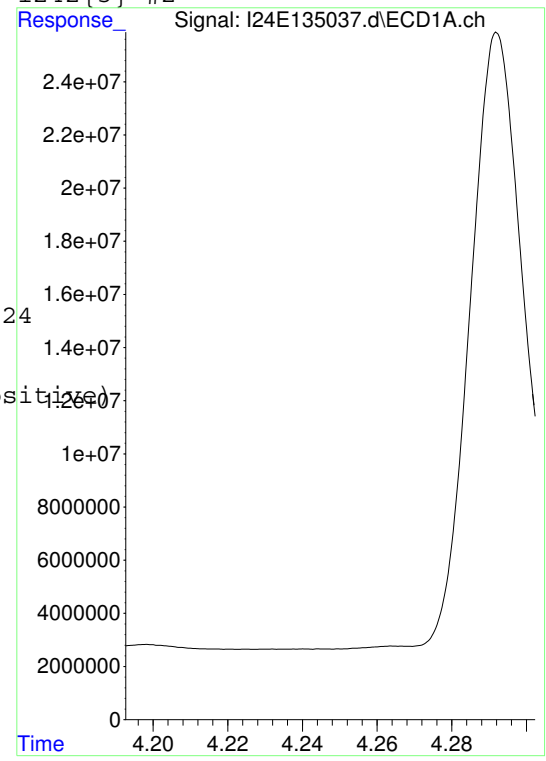
RT : 4.25
Area : 1.53192e+006
Amount: 1.69466

Manual Int. Results

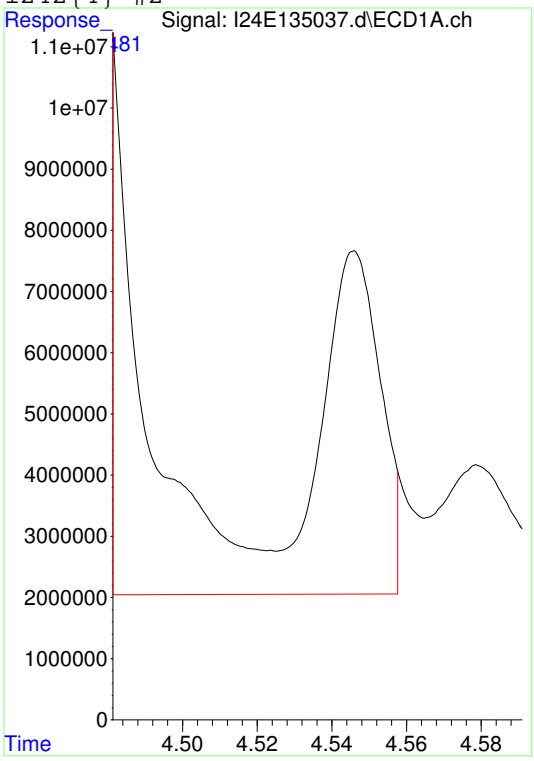
Wed May 15 08:40:26 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1242{3} #2



Original Integration
1242{4} #2



Original Int. Results

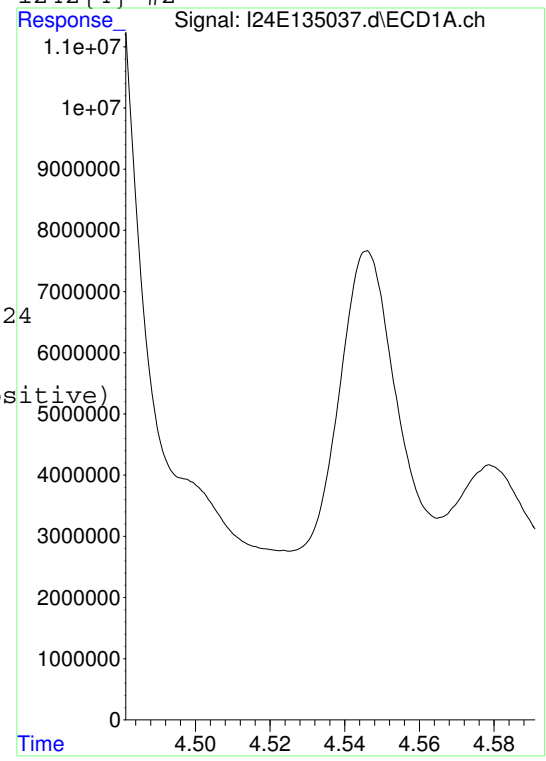
RT : 4.54
Area : 1.02882e+008
Amount: 82.1869

Manual Int. Results

Wed May 15 08:40:26 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

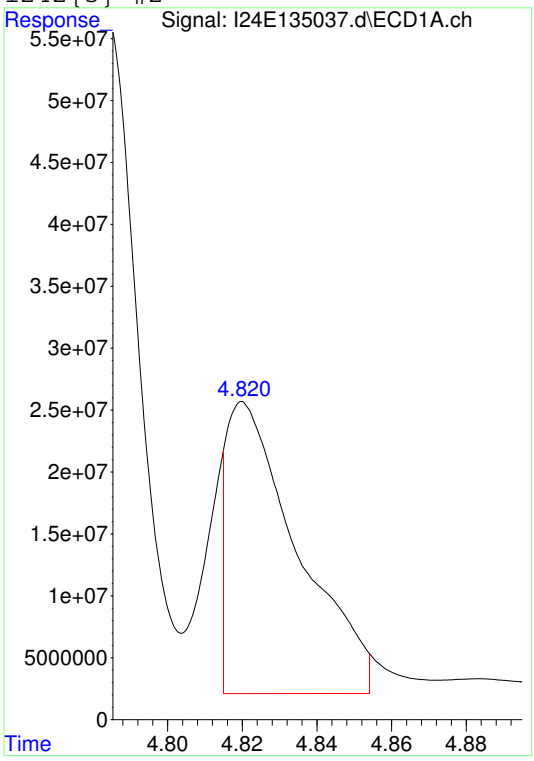
Manual Integration
1242{4} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135037.d
Acq On : 14 May 2024 8:04 pm
Operator : PJG
Sample : 24E1437-12@4X TBA
Misc :

Quant Time : Wed May 15 08:40:28 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1242{5} #2



Original Int. Results

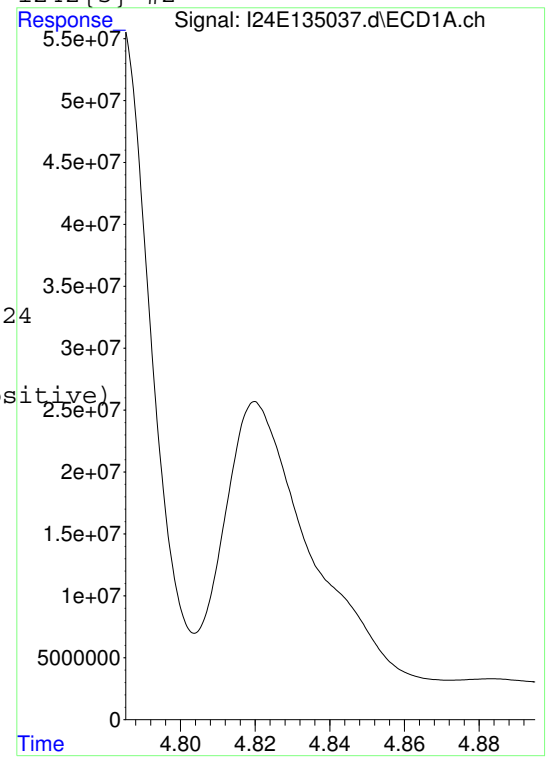
RT : 4.84
Area : 1.79395e+008
Amount: 144.508

Manual Int. Results

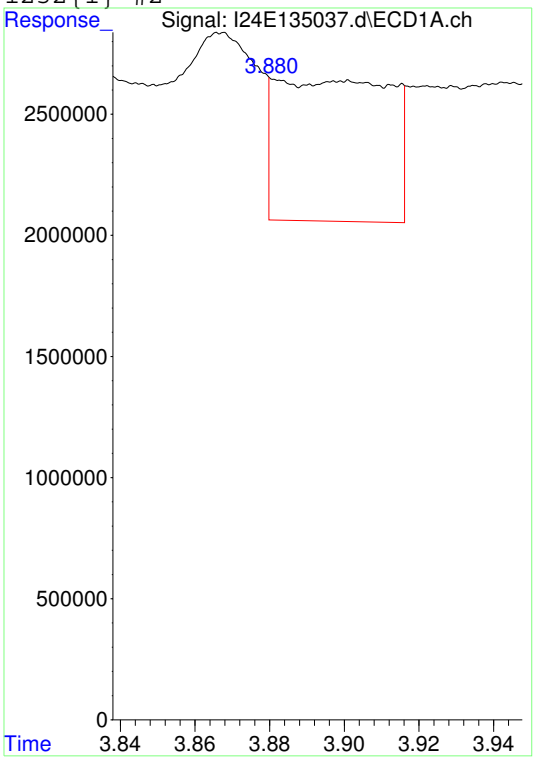
Wed May 15 08:40:26 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1242{5} #2



Original Integration
1232{1} #2



Original Int. Results

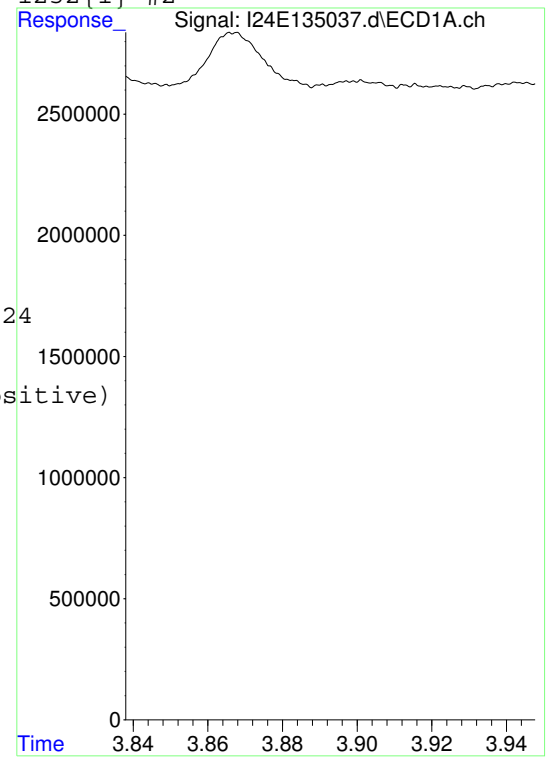
RT : 3.89
Area : 1.06095e+006
Amount: 2.25417

Manual Int. Results

Wed May 15 08:40:26 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

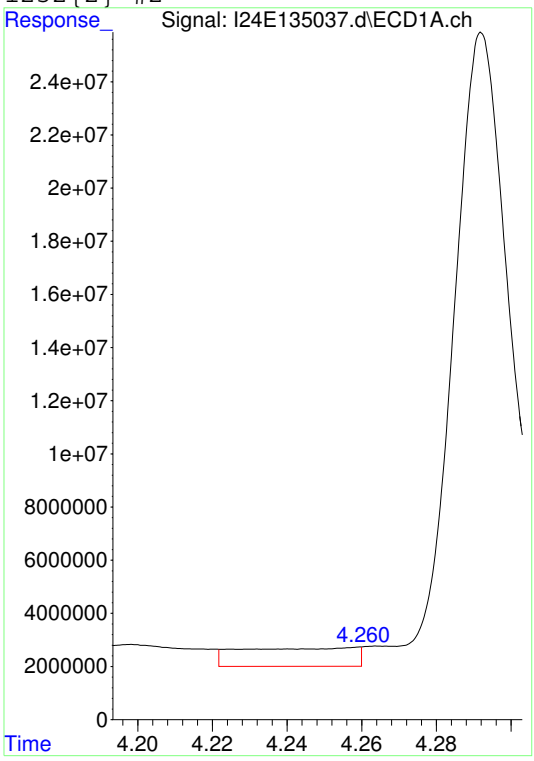
Manual Integration
1232{1} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135037.d
Acq On : 14 May 2024 8:04 pm
Operator : PJG
Sample : 24E1437-12@4X TBA
Misc :

Quant Time : Wed May 15 08:40:28 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1232{2} #2



Original Int. Results

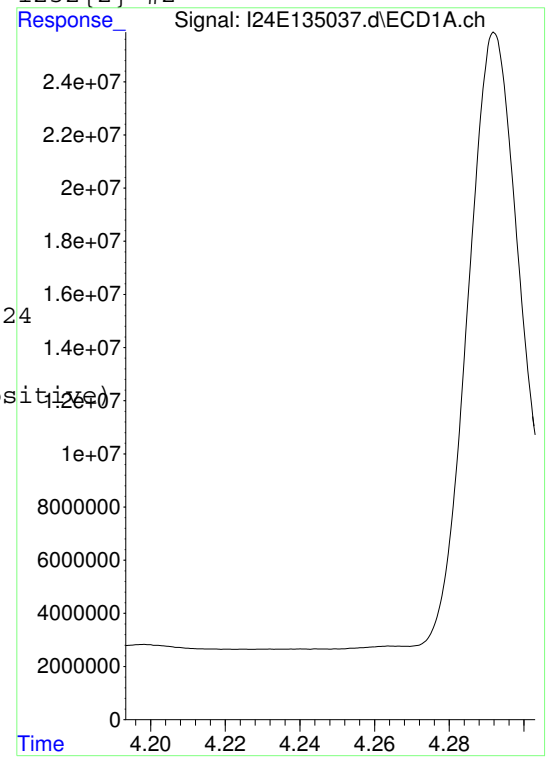
RT : 4.25
Area : 1.53192e+006
Amount: 2.794

Manual Int. Results

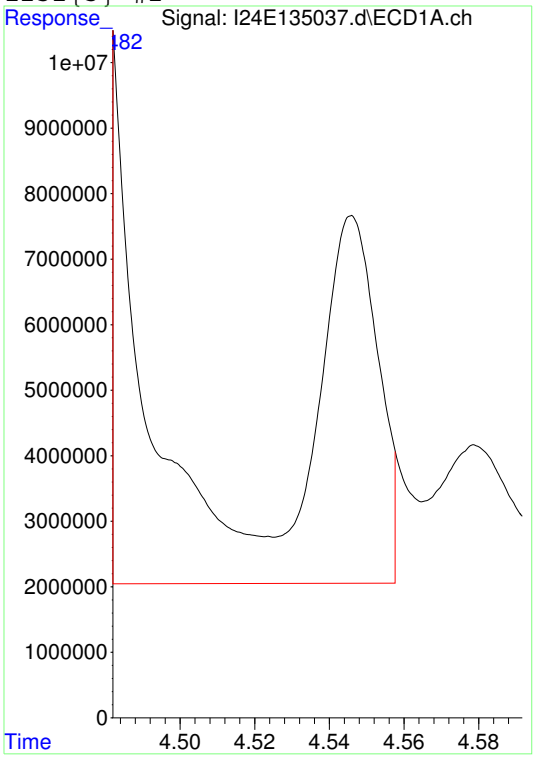
Wed May 15 08:40:26 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1232{2} #2



Original Integration
1232{3} #2



Original Int. Results

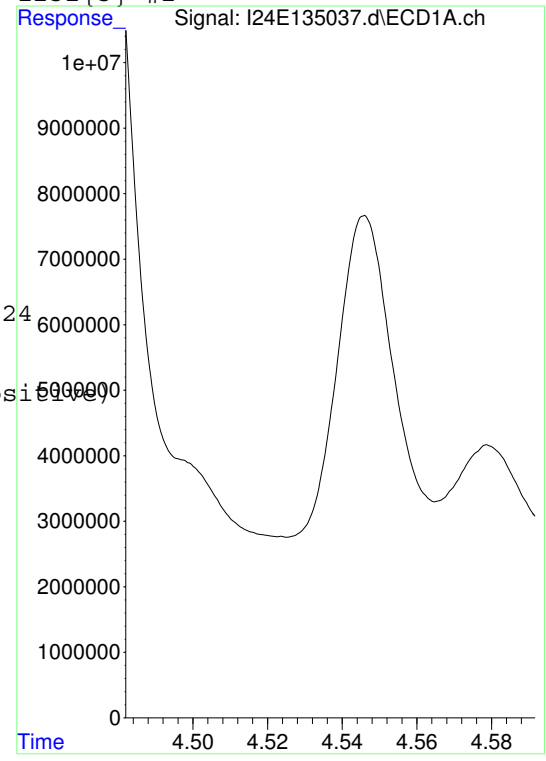
RT : 4.54
Area : 1.02882e+008
Amount: 144.987

Manual Int. Results

Wed May 15 08:40:25 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

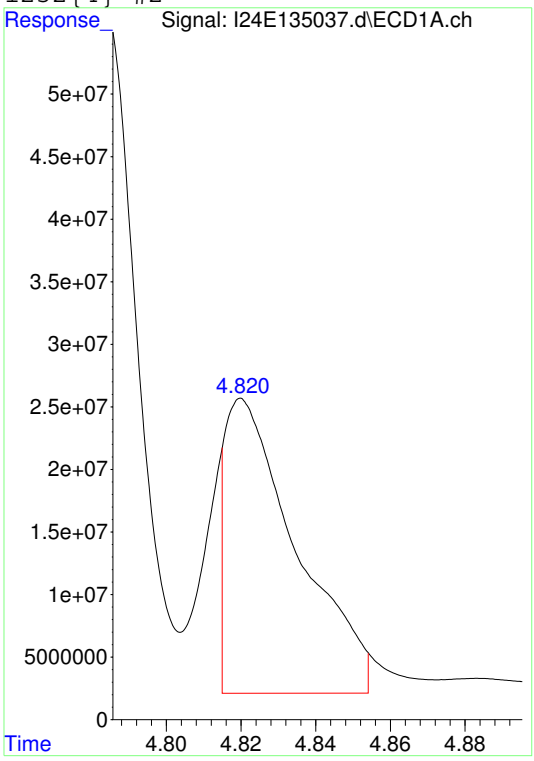
Manual Integration
1232{3} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135037.d
Acq On : 14 May 2024 8:04 pm
Operator : PJG
Sample : 24E1437-12@4X TBA
Misc :

Quant Time : Wed May 15 08:40:28 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1232{4} #2



Original Int. Results

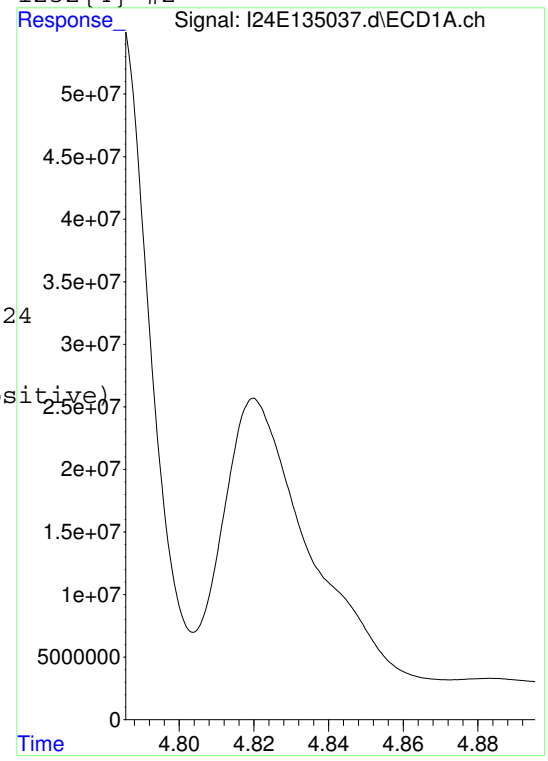
RT : 4.84
Area : 1.79395e+008
Amount: 244.888

Manual Int. Results

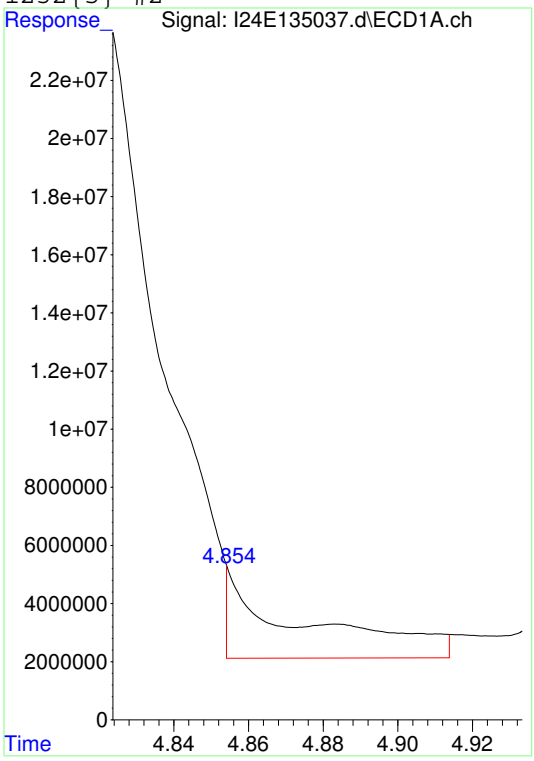
Wed May 15 08:40:25 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1232{4} #2



Original Integration
1232{5} #2



Original Int. Results

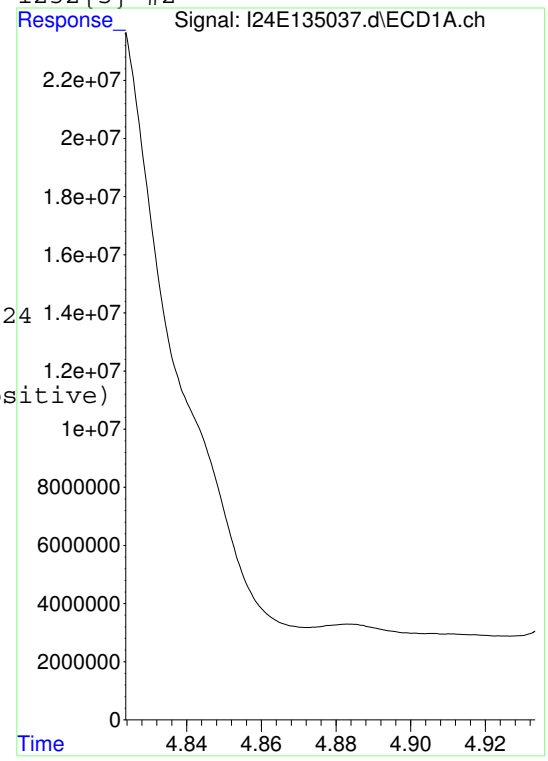
RT : 4.87
Area : 4.96964e+008
Amount: 566.141

Manual Int. Results

Wed May 15 08:40:25 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

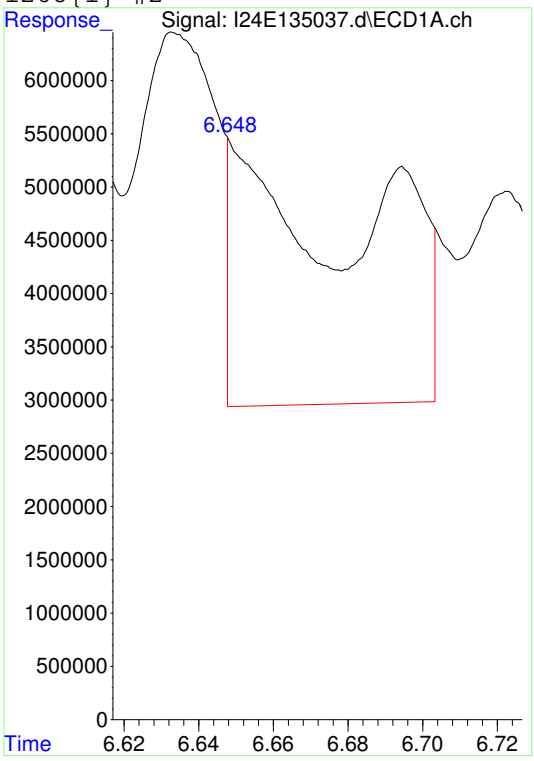
Manual Integration
1232{5} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135037.d
Acq On : 14 May 2024 8:04 pm
Operator : PJG
Sample : 24E1437-12@4X TBA
Misc :

Quant Time : Wed May 15 08:40:28 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1268{1} #2



Original Int. Results

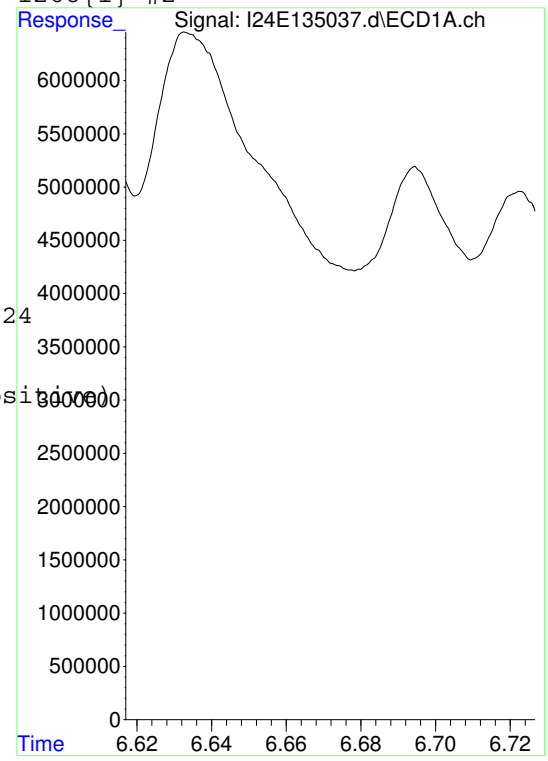
RT : 6.68
Area : 2.11196e+008
Amount: 25.6916

Manual Int. Results

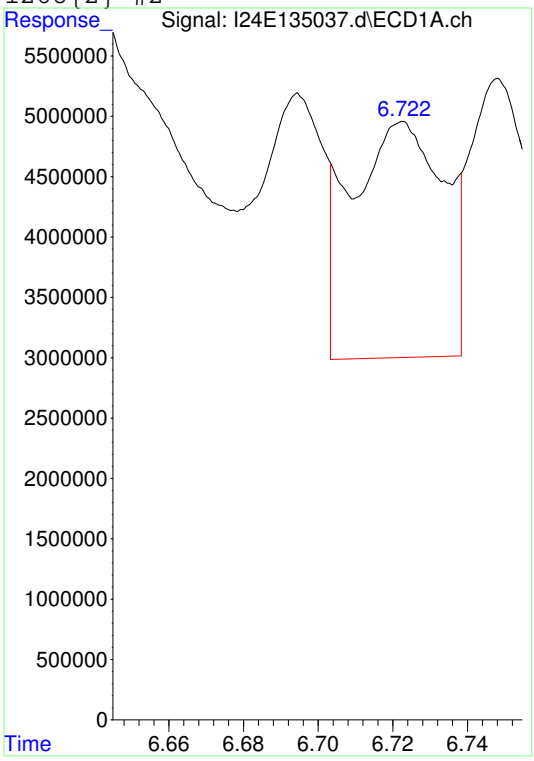
Wed May 15 08:40:25 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1268{1} #2



Original Integration
1268{2} #2



Original Int. Results

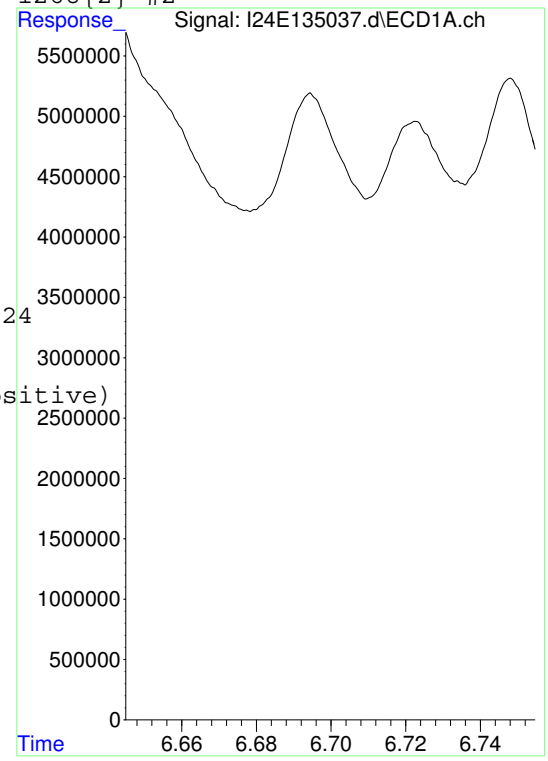
RT : 6.71
Area : 2.04323e+007
Amount: 2.54418

Manual Int. Results

Wed May 15 08:40:24 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

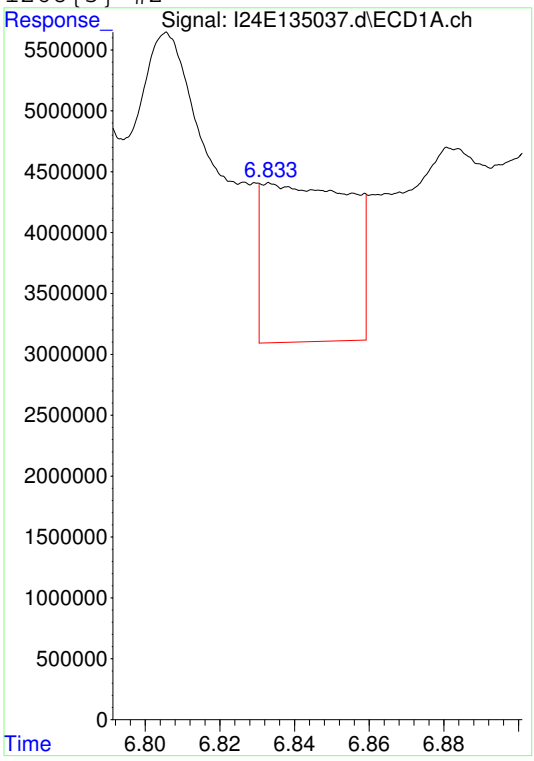
Manual Integration
1268{2} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135037.d
Acq On : 14 May 2024 8:04 pm
Operator : PJG
Sample : 24E1437-12@4X TBA
Misc :

Quant Time : Wed May 15 08:40:28 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1268{3} #2



Original Int. Results

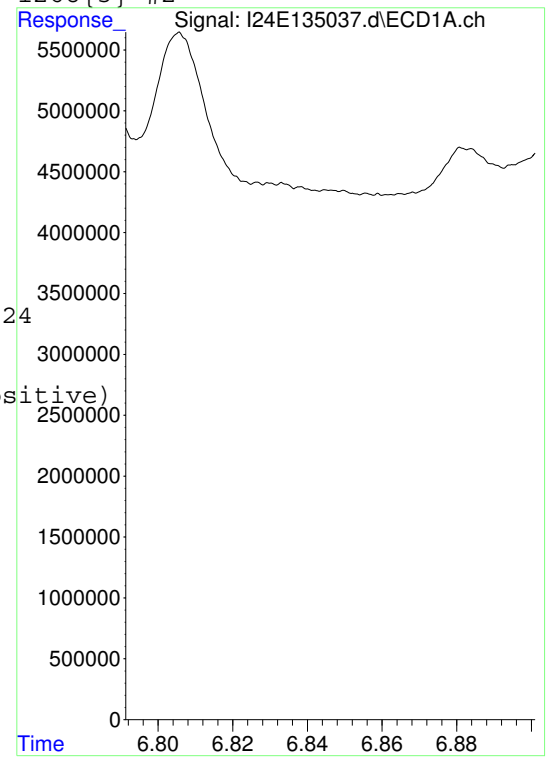
RT : 6.84
Area : 6.9829e+006
Amount: 0.937612

Manual Int. Results

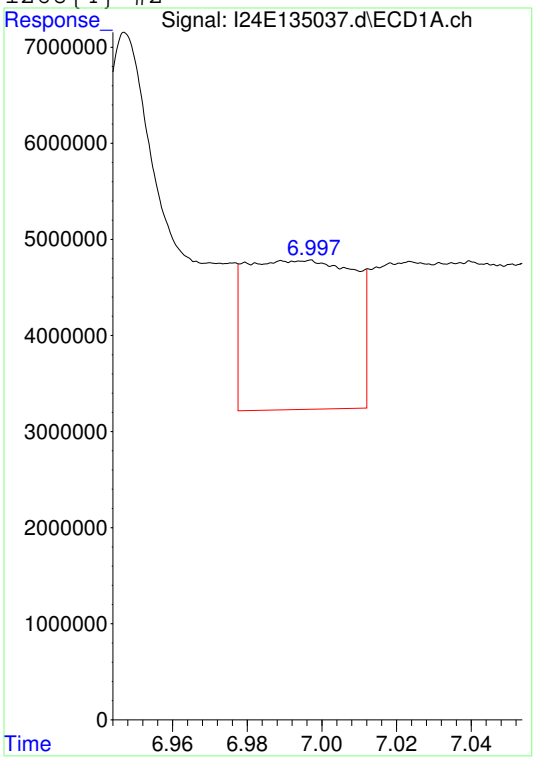
Wed May 15 08:40:24 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1268{3} #2



Original Integration
1268{4} #2



Original Int. Results

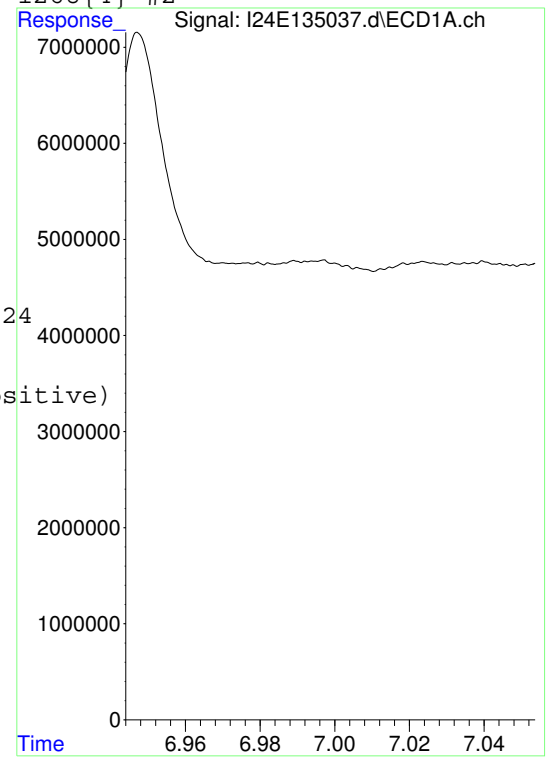
RT : 7.00
Area : 1.92292e+007
Amount: 9.01796

Manual Int. Results

Wed May 15 08:40:24 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

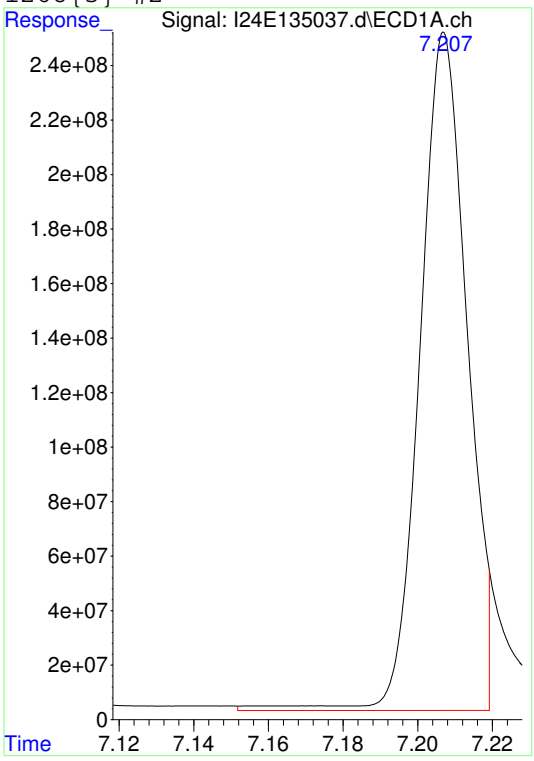
Manual Integration
1268{4} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135037.d
Acq On : 14 May 2024 8:04 pm
Operator : PJG
Sample : 24E1437-12@4X TBA
Misc :

Quant Time : Wed May 15 08:40:28 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1268{5} #2



Original Int. Results

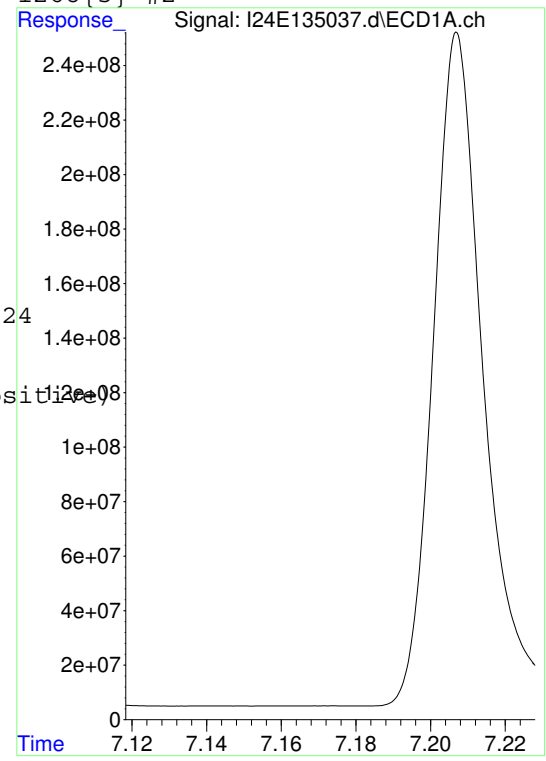
RT : 7.17
Area : 2.47188e+007
Amount: 1.21874

Manual Int. Results

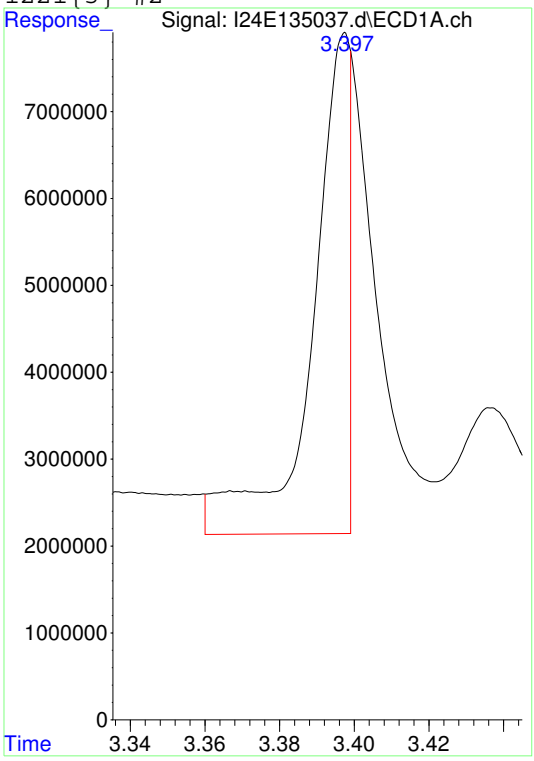
Wed May 15 08:40:24 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1268{5} #2



Original Integration
1221{3} #2



Original Int. Results

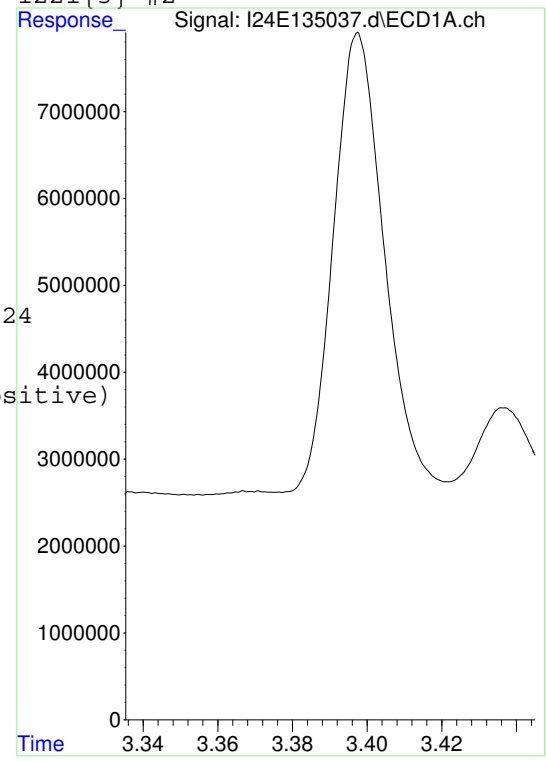
RT : 3.38
Area : 2.8767e+006
Amount: 1.9161

Manual Int. Results

Wed May 15 08:40:23 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

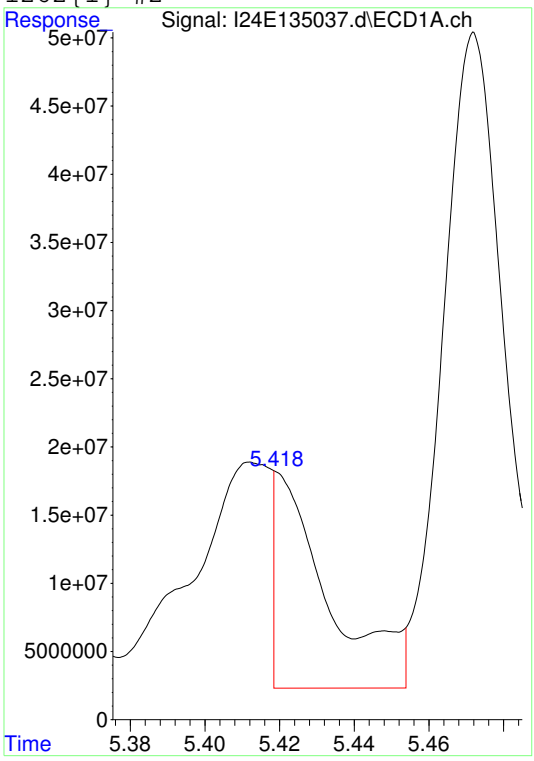
Manual Integration
1221{3} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135037.d
Acq On : 14 May 2024 8:04 pm
Operator : PJG
Sample : 24E1437-12@4X TBA
Misc :

Quant Time : Wed May 15 08:40:28 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1262{1} #2



Original Int. Results

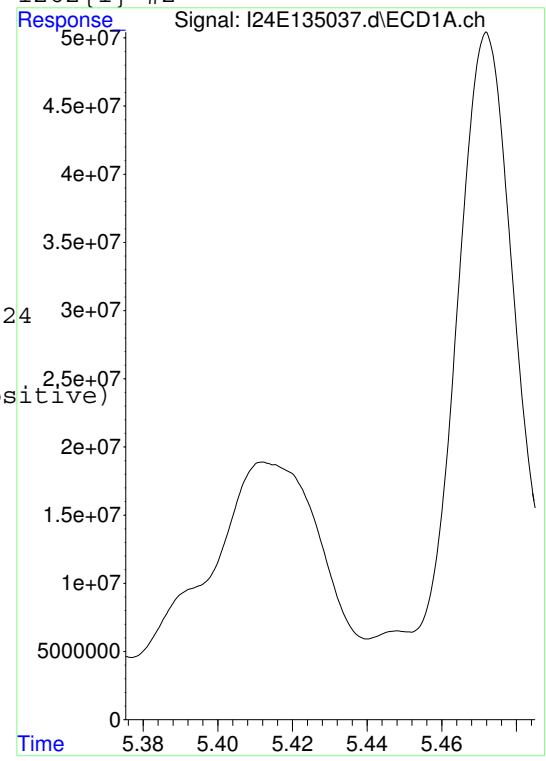
RT : 5.43
Area : 1.34981e+008
Amount: 95.2336

Manual Int. Results

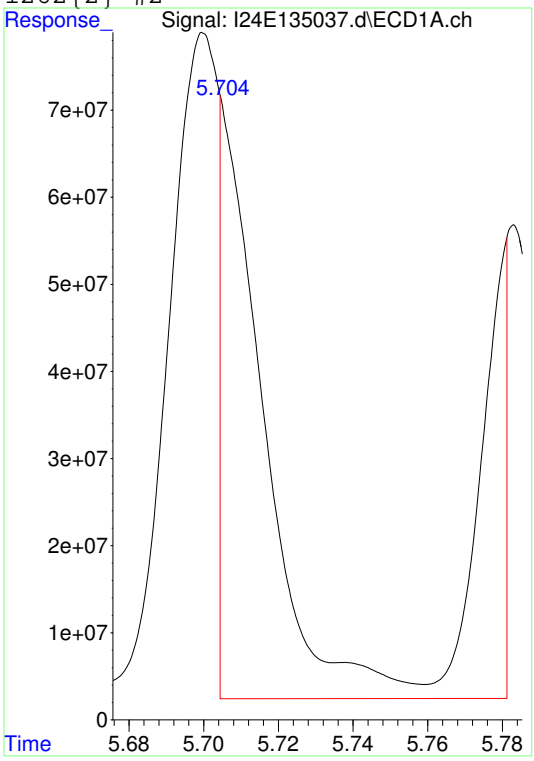
Wed May 15 08:40:23 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1262{1} #2



Original Integration
1262{2} #2



Original Int. Results

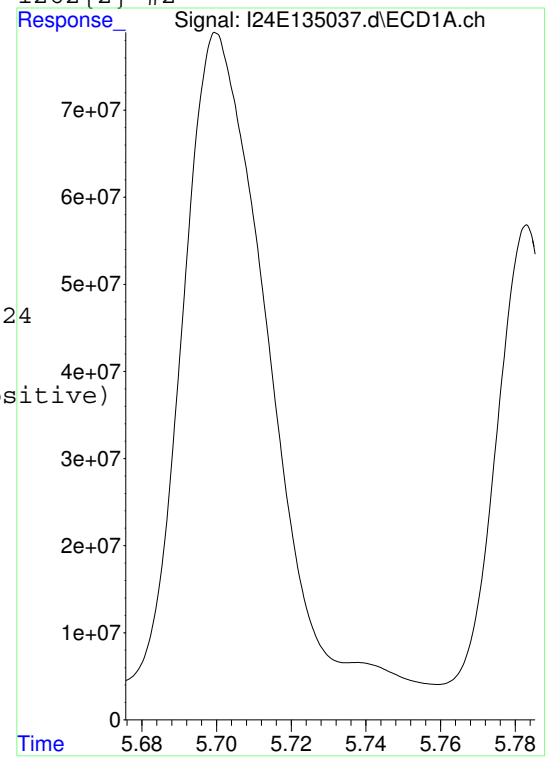
RT : 5.73
Area : 6.65954e+008
Amount: 229.481

Manual Int. Results

Wed May 15 08:40:23 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

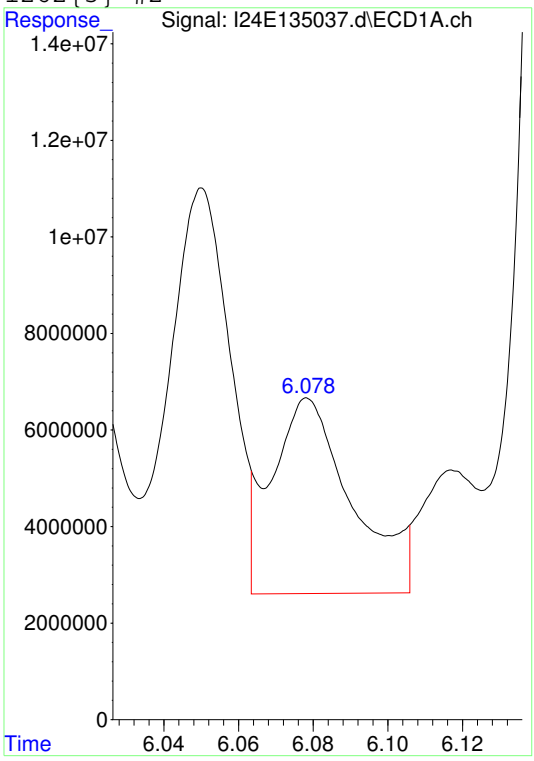
Manual Integration
1262{2} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135037.d
Acq On : 14 May 2024 8:04 pm
Operator : PJG
Sample : 24E1437-12@4X TBA
Misc :

Quant Time : Wed May 15 08:40:28 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1262{3} #2



Original Int. Results

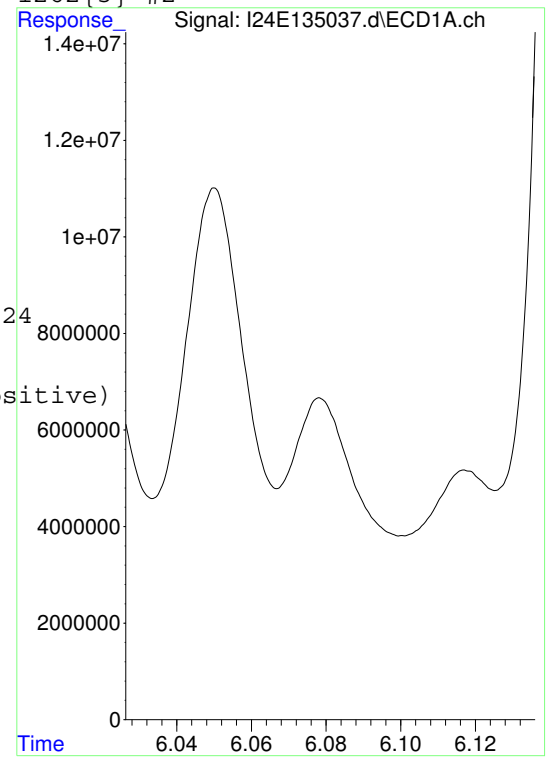
RT : 6.09
Area : 1.52341e+008
Amount: 43.0895

Manual Int. Results

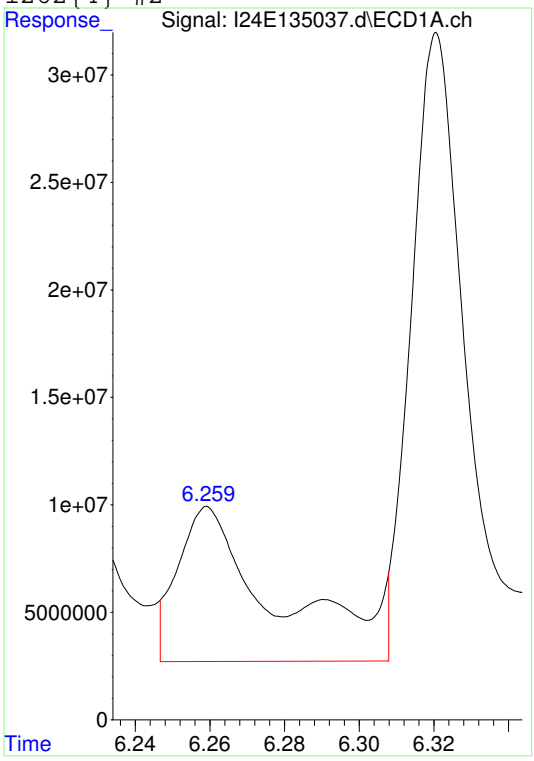
Wed May 15 08:40:23 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1262{3} #2



Original Integration
1262{4} #2



Original Int. Results

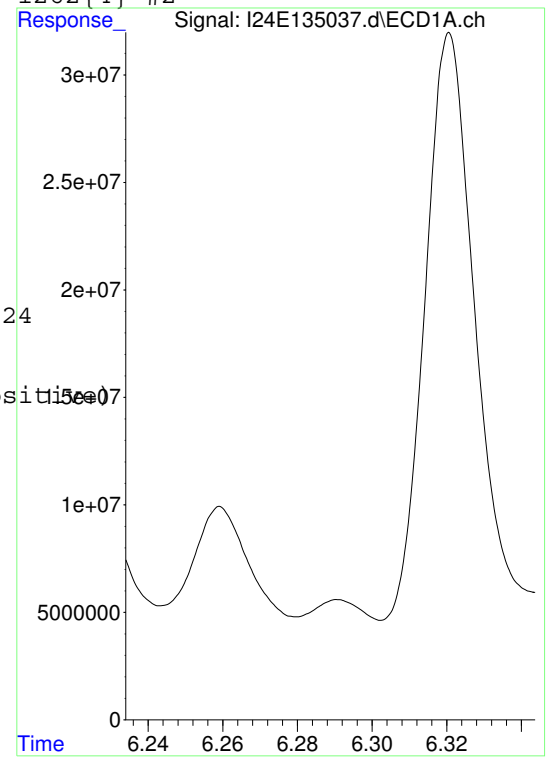
RT : 6.27
Area : 4.38865e+008
Amount: 129.277

Manual Int. Results

Wed May 15 08:40:22 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

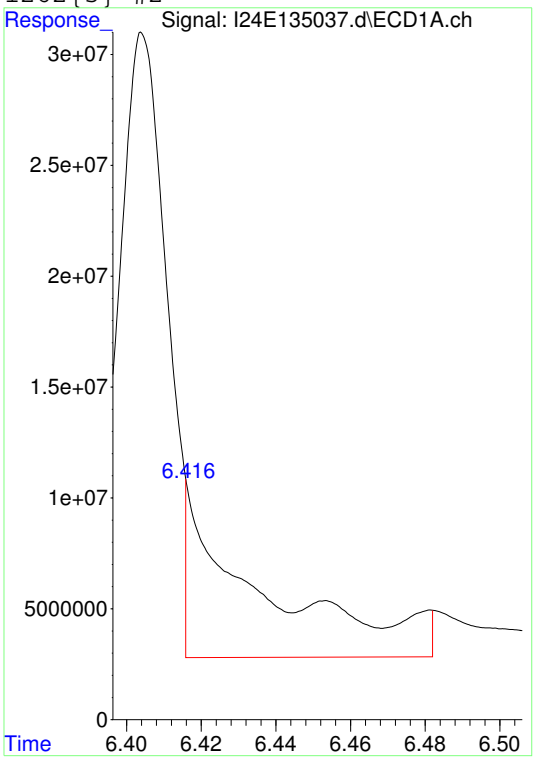
Manual Integration
1262{4} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135037.d
Acq On : 14 May 2024 8:04 pm
Operator : PJG
Sample : 24E1437-12@4X TBA
Misc :

Quant Time : Wed May 15 08:40:28 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1262{5} #2



Original Int. Results

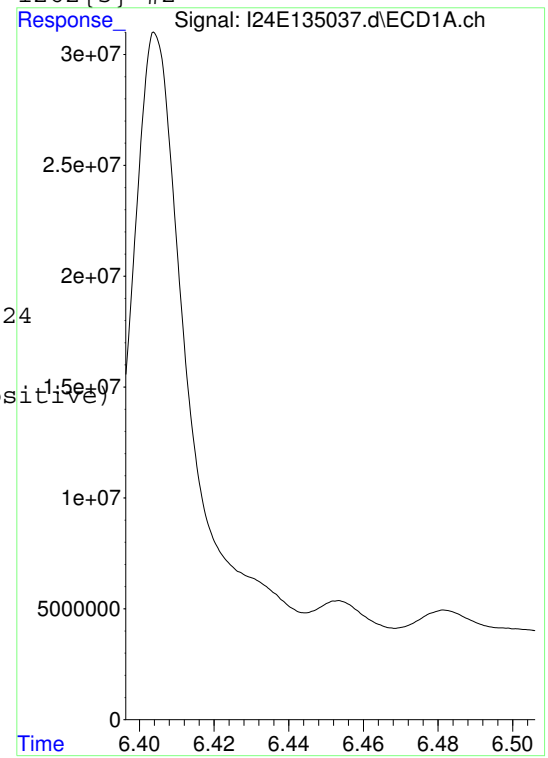
RT : 6.45
Area : 2.7749e+008
Amount: 38.5683

Manual Int. Results

Wed May 15 08:40:22 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1262{5} #2



1 - FORM I
ANALYSIS DATA SHEET

SB7

Laboratory:	Pace New England			SDG:	24E1437
Client:	NYS Division of Environmental Rer			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-17	File ID:	I24E135038.d
Sampled:	05/08/24 15:39	Prepared:	05/10/24 15:04	Analyzed:	05/14/24 20:21
Solids:	69.34	Preparation:	SW-846 3546	Dilution:	4
Batch:	B374045	Sequence:	S104539	Calibration:	2400478
Instrument:	ECD 9				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.027	0.11	
11104-28-2	Aroclor-1221		0.051	0.11	
11141-16-5	Aroclor-1232		0.027	0.11	
53469-21-9	Aroclor-1242		0.030	0.11	
12672-29-6	Aroclor-1248		0.026	0.11	
11097-69-1	Aroclor-1254 [2C]	0.091	0.042	0.11	J
11096-82-5	Aroclor-1260		0.023	0.11	
37324-23-5	Aroclor-1262		0.028	0.11	
11100-14-4	Aroclor-1268		0.029	0.11	

* Values outside of QC limits

Data Path : C:\msdchem\1\data\051424\
Data File : I24E135038.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 8:21 pm
Operator : PJG
Sample : 24E1437-17@4X TBA Inst : ECD 9
Misc :
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 15 08:41:30 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Tetrachlo...	3.071	2.995	2790.1E6	2555.9E6	42.482	44.176
2) S Decachlor...	7.207	7.312	2276.6E6	2047.0E6	41.016	41.099
Target Compounds						
3) L1 1016{1}	0.000	0.000	0	0	N.D. d	N.D. d
4) L1 1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1 1016{3}	0.000	0.000	0	0	N.D. d	N.D. d
6) L1 1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1 1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1016			0	0	N.D.	N.D.
Average 1016					0.000	0.000
8) L7 1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9) L7 1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7 1260{3}	0.000	0.000	0	0	N.D. d	N.D. d
11) L7 1260{4}	0.000	0.000	0	0	N.D. d	N.D. d
12) L7 1260{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1260			0	0	N.D.	N.D.
Average 1260					0.000	0.000
13) L6 1254{1}	4.784	4.872	29366163	25921831	9.804	9.831
14) L6 1254{2}	0.000	5.024	0	40292660	N.D. d	13.273 #
15) L6 1254{3}	5.323	0.000	71221664	0	13.277	N.D. d#
16) L6 1254{4}	5.552	5.399	63221352	53352784	15.225	12.325
17) L6 1254{5}	5.929	6.012	120.2E6	146.4E6	21.723	30.567 #
Sum 1254			284.0E6	265.9E6	60.029	65.995
Average 1254					15.007	16.499
18) L5 1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5 1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5 1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5 1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5 1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248			0	0	N.D.	N.D.
Average 1248					0.000	0.000
23) L4 1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4 1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4 1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4 1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4 1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242			0	0	N.D.	N.D.
Average 1242					0.000	0.000
28) L3 1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3 1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3 1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3 1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\051424\
Data File : I24E135038.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 8:21 pm
Operator : PJG
Sample : 24E1437-17@4X TBA Inst : ECD 9
Misc :
ALS Vial : 38 Sample Multiplier: 1

3176

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 15 08:41:30 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40)	L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D. d	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

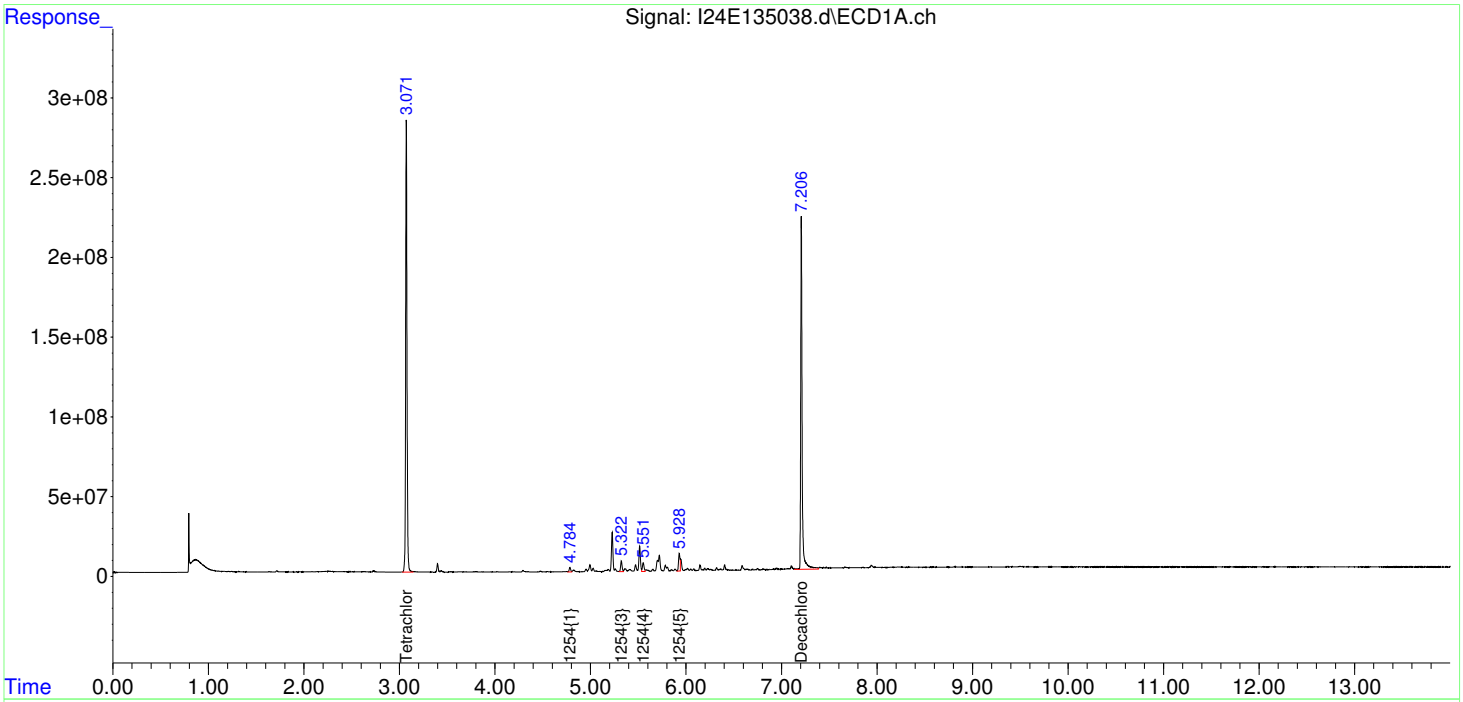
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

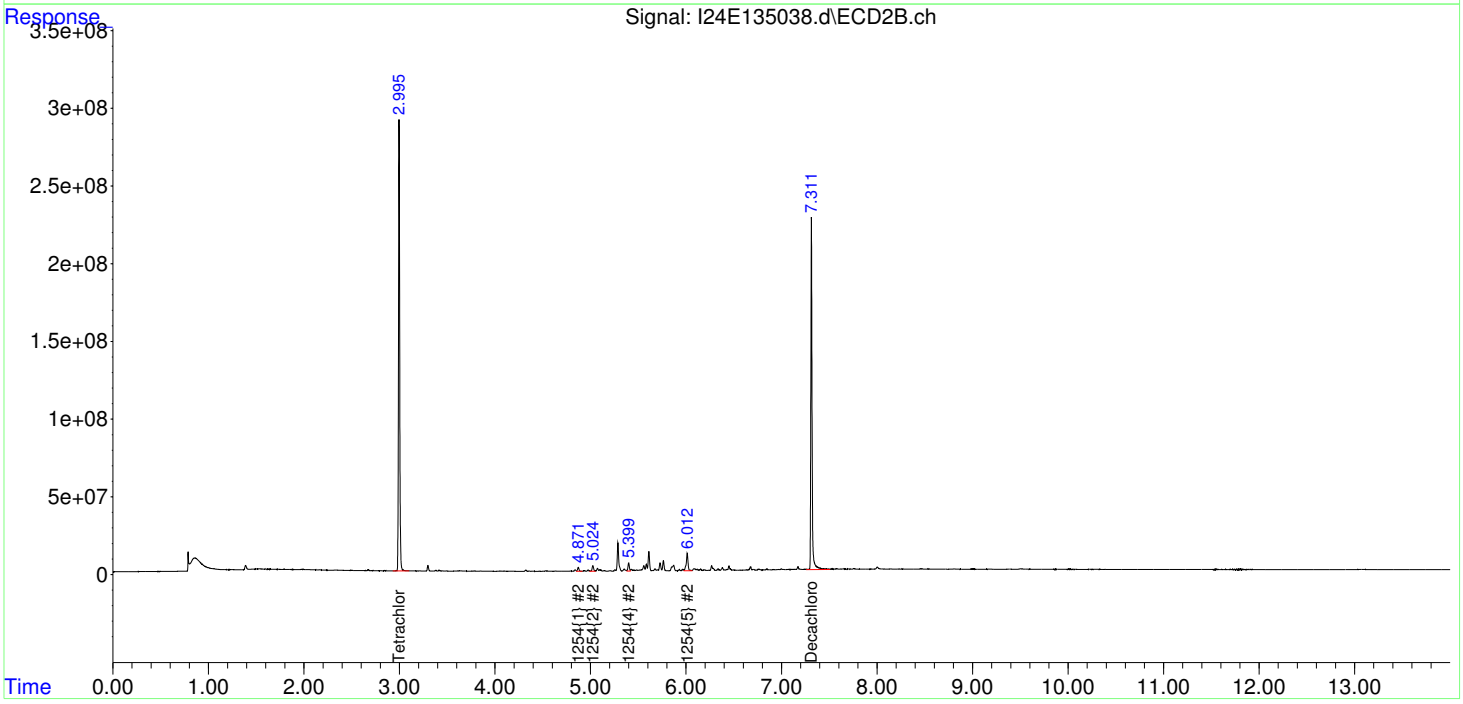
Data Path : C:\msdchem\1\data\051424\
Data File : I24E135038.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 8:21 pm
Operator : PJG
Sample : 24E1437-17@4X TBA Inst : ECD 9
Misc :
ALS Vial : 38 Sample Multiplier: 1

3177

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 15 08:41:30 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

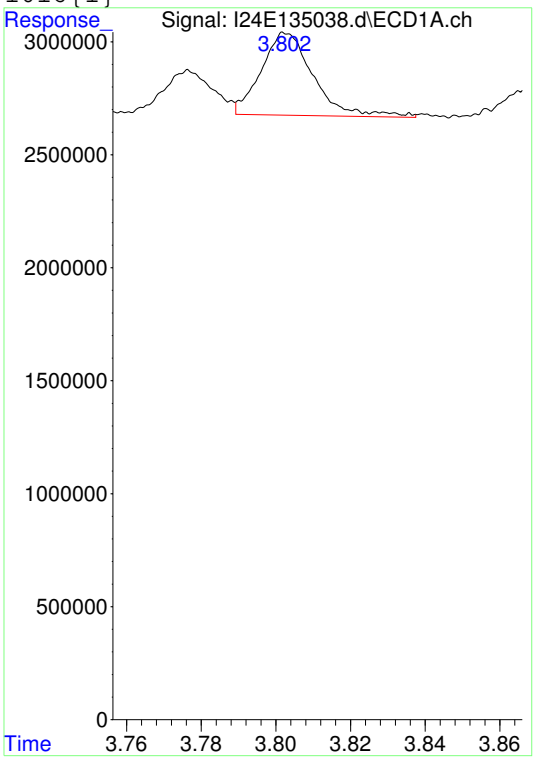




Data Path : C:\msdchem\1\data\051424\
Data File : I24E135038.d
Acq On : 14 May 2024 8:21 pm
Operator : PJG
Sample : 24E1437-17@4X TBA
Misc :

Quant Time : Wed May 15 08:41:30 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1016{1}



Original Int. Results

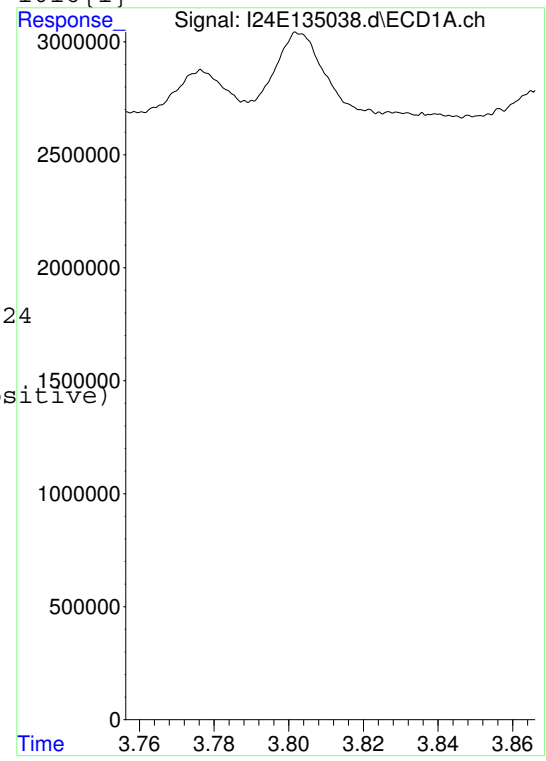
RT : 3.80
Area : 3.52514e+006
Amount: 3.71137

Manual Int. Results

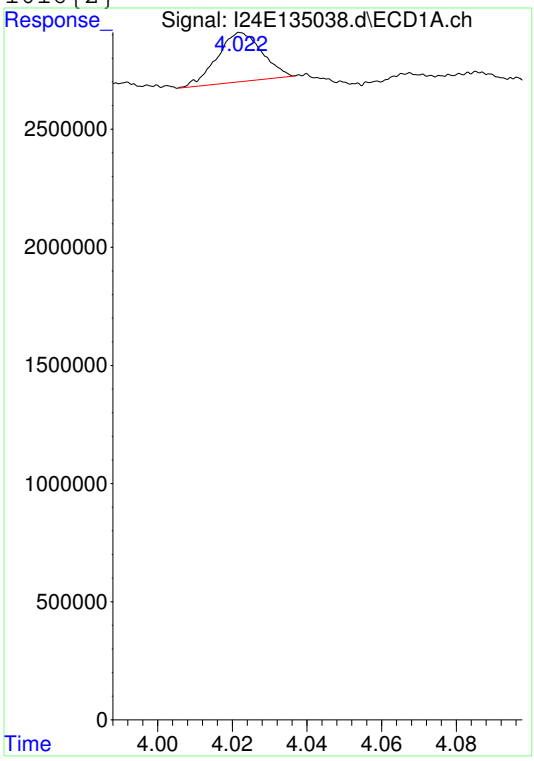
Wed May 15 08:41:20 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1016{1}



Original Integration
1016{2}



Original Int. Results

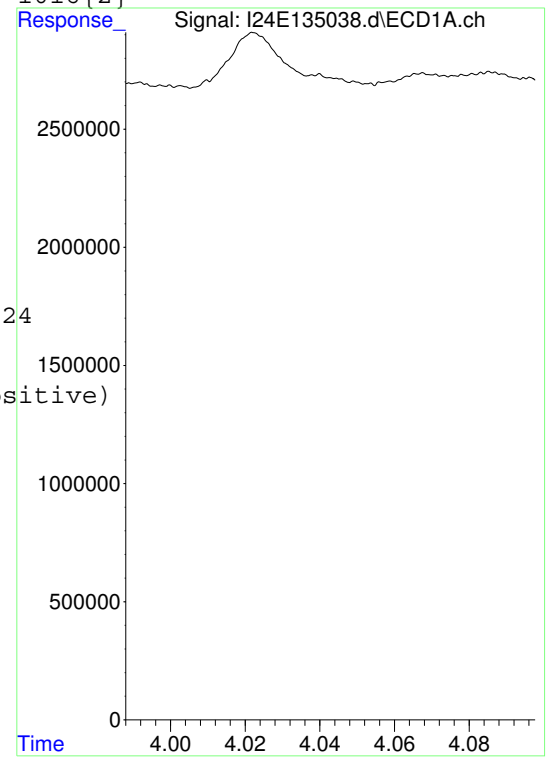
RT : 4.02
Area : 1.72406e+006
Amount: 0.422579

Manual Int. Results

Wed May 15 08:41:19 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

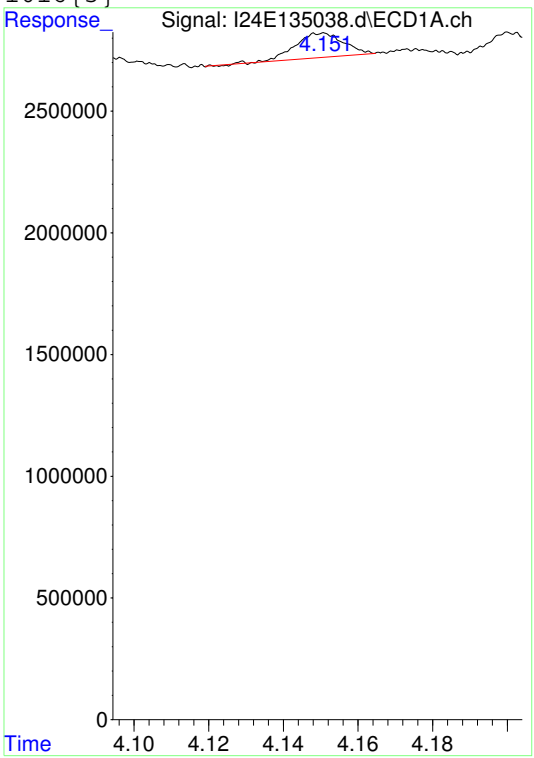
Manual Integration
1016{2}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135038.d
Acq On : 14 May 2024 8:21 pm
Operator : PJG
Sample : 24E1437-17@4X TBA
Misc :

Quant Time : Wed May 15 08:41:30 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1016{3}



Original Int. Results

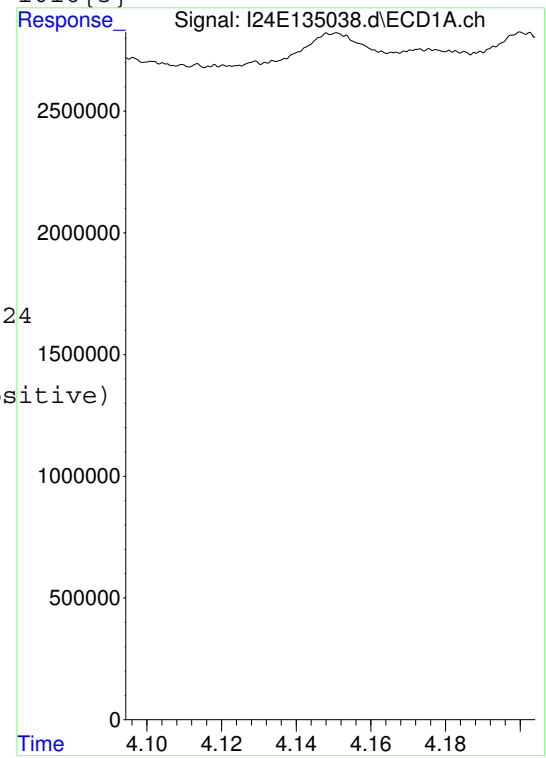
RT : 4.15
Area : 868945
Amount: 0.294342

Manual Int. Results

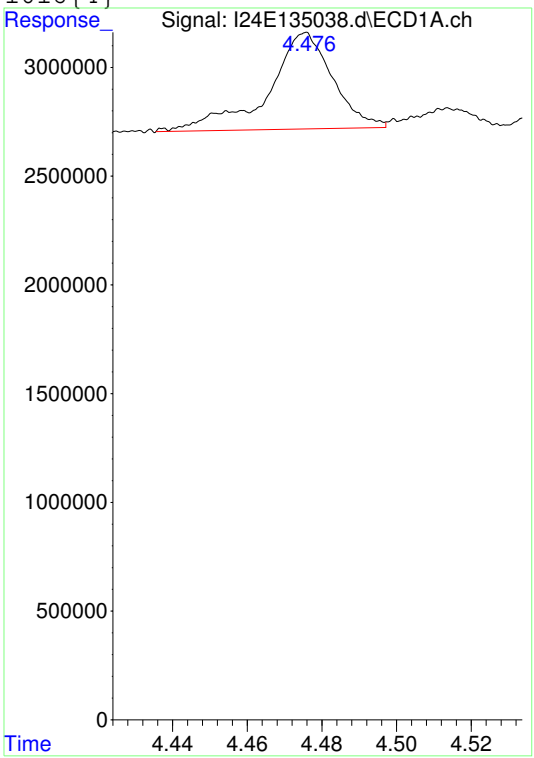
Wed May 15 08:41:19 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1016{3}



Original Integration
1016{4}



Original Int. Results

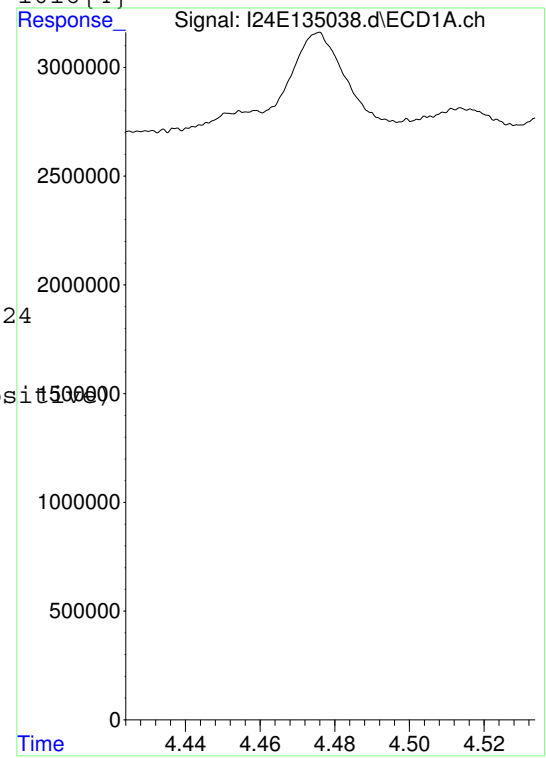
RT : 4.48
Area : 5.30374e+006
Amount: 2.46222

Manual Int. Results

Wed May 15 08:41:19 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

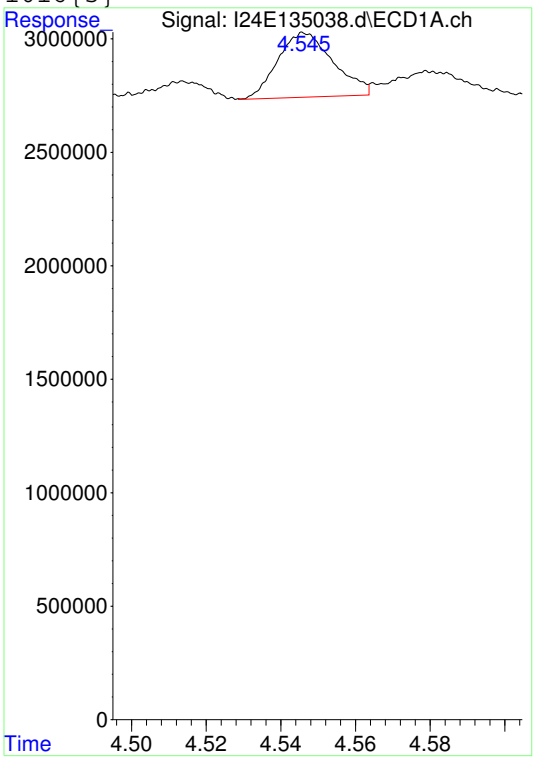
Manual Integration
1016{4}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135038.d
Acq On : 14 May 2024 8:21 pm
Operator : PJG
Sample : 24E1437-17@4X TBA
Misc :

Quant Time : Wed May 15 08:41:30 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1016{5}



Original Int. Results

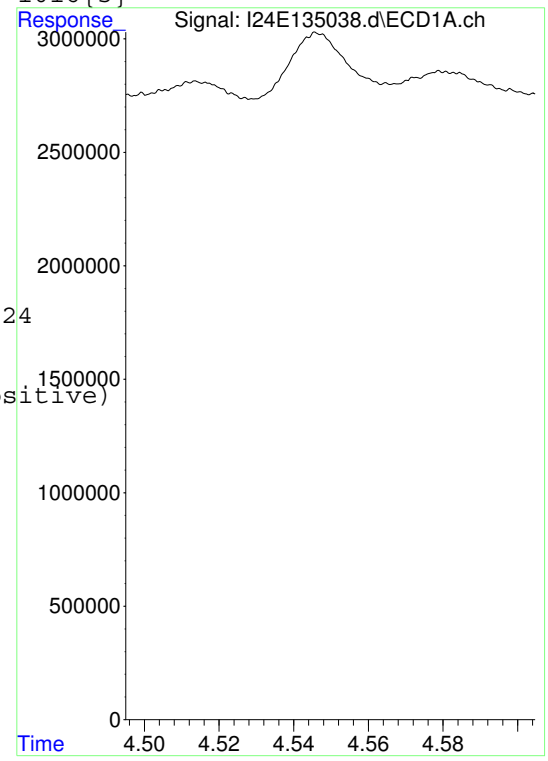
RT : 4.55
Area : 2.90859e+006
Amount: 2.01916

Manual Int. Results

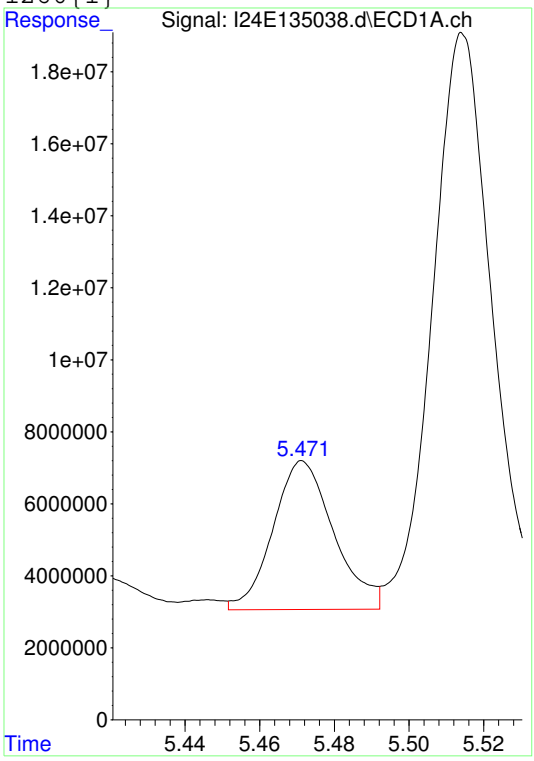
Wed May 15 08:41:19 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1016{5}



Original Integration
1260{1}



Original Int. Results

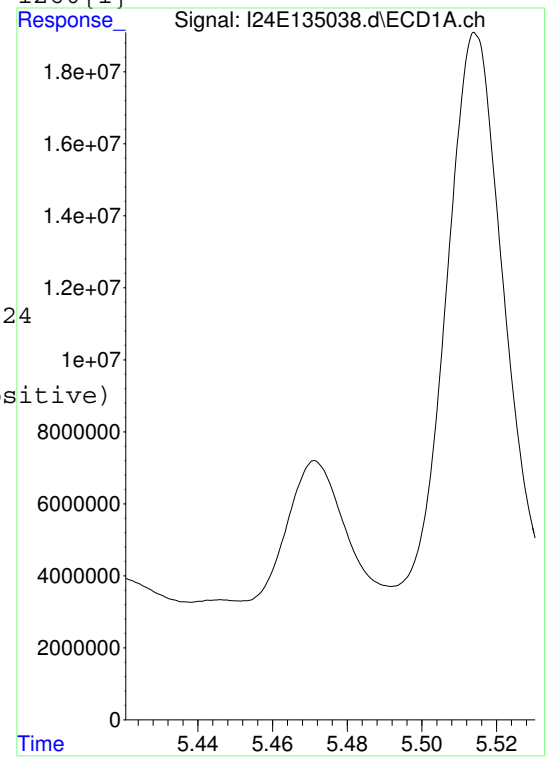
RT : 5.47
Area : 4.67044e+007
Amount: 11.1424

Manual Int. Results

Wed May 15 08:41:19 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

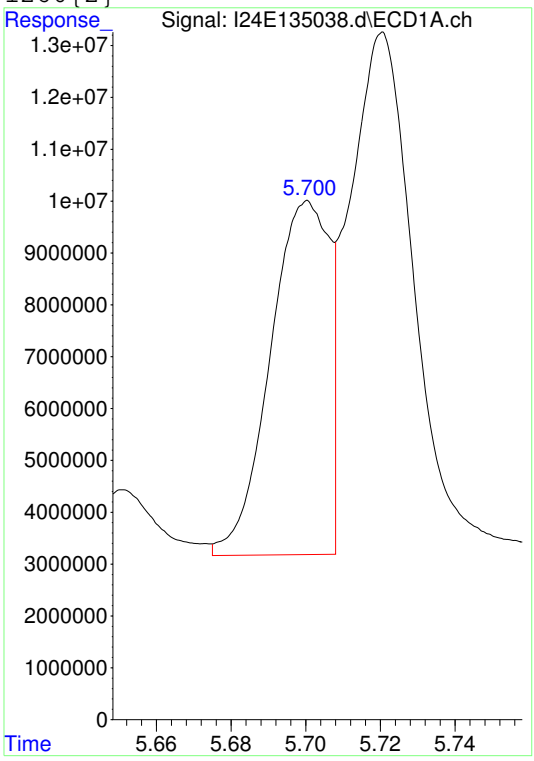
Manual Integration
1260{1}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135038.d
Acq On : 14 May 2024 8:21 pm
Operator : PJG
Sample : 24E1437-17@4X TBA
Misc :

Quant Time : Wed May 15 08:41:30 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1260{2}



Original Int. Results

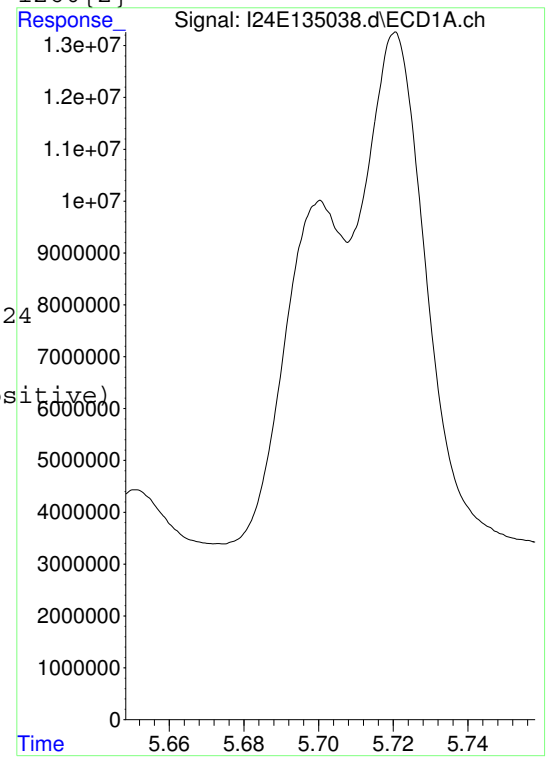
RT : 5.70
Area : 7.42231e+007
Amount: 11.944

Manual Int. Results

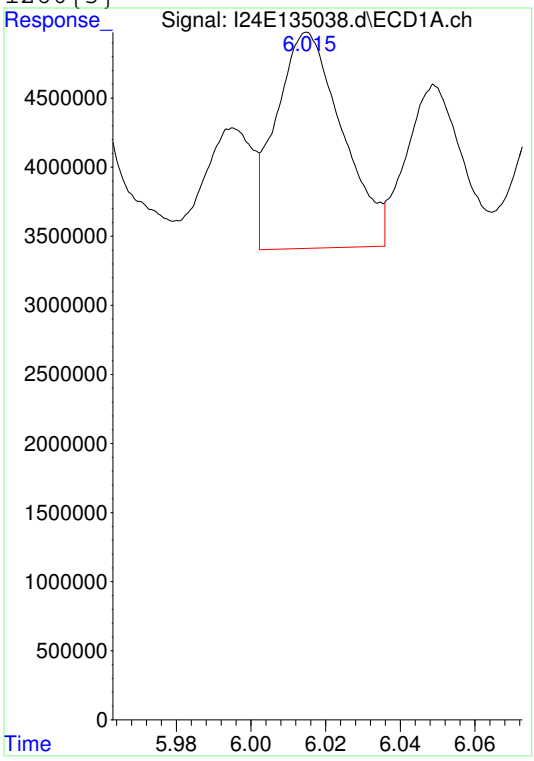
Wed May 15 08:41:18 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1260{2}



Original Integration
1260{3}



Original Int. Results

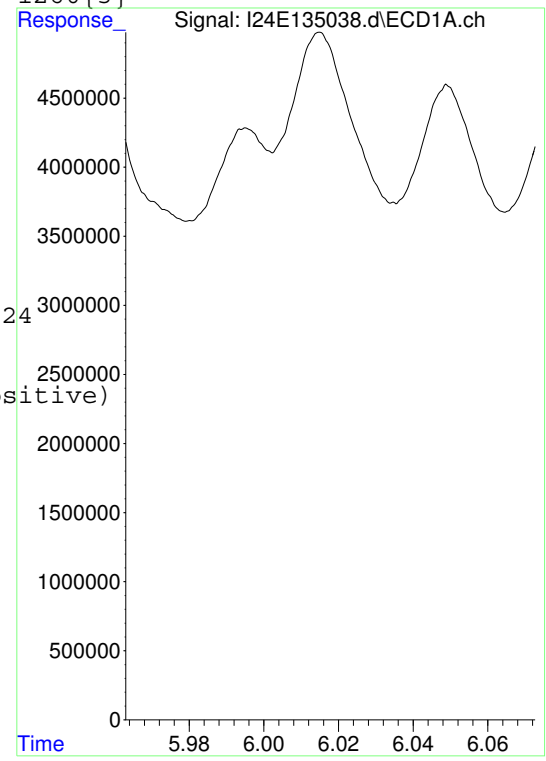
RT : 6.02
Area : 1.92952e+007
Amount: 4.83752

Manual Int. Results

Wed May 15 08:41:18 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

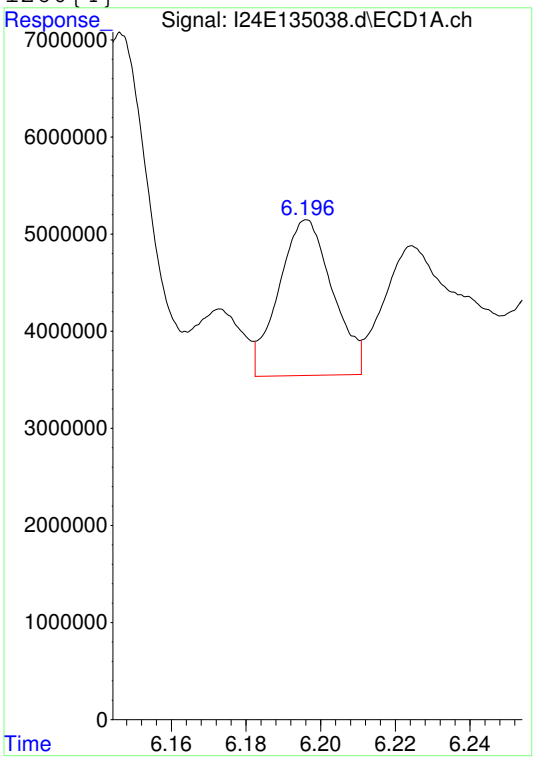
Manual Integration
1260{3}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135038.d
Acq On : 14 May 2024 8:21 pm
Operator : PJG
Sample : 24E1437-17@4X TBA
Misc :

Quant Time : Wed May 15 08:41:30 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1260{4}



Original Int. Results

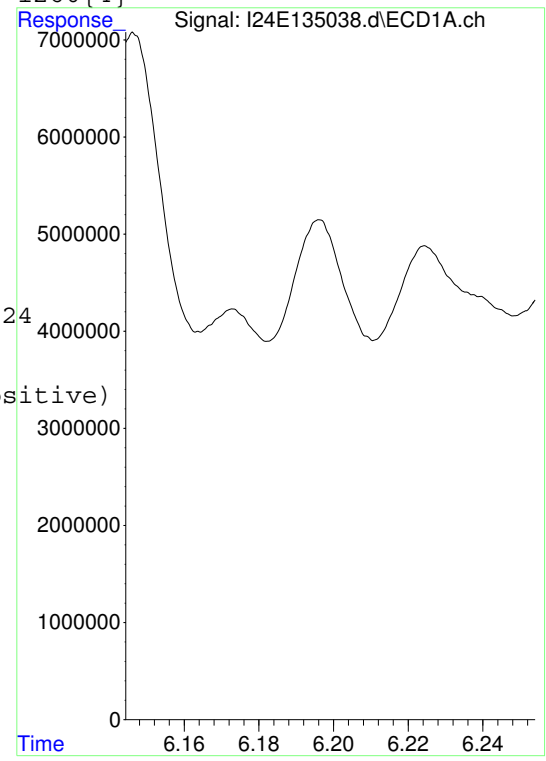
RT : 6.20
Area : 1.59678e+007
Amount: 3.96232

Manual Int. Results

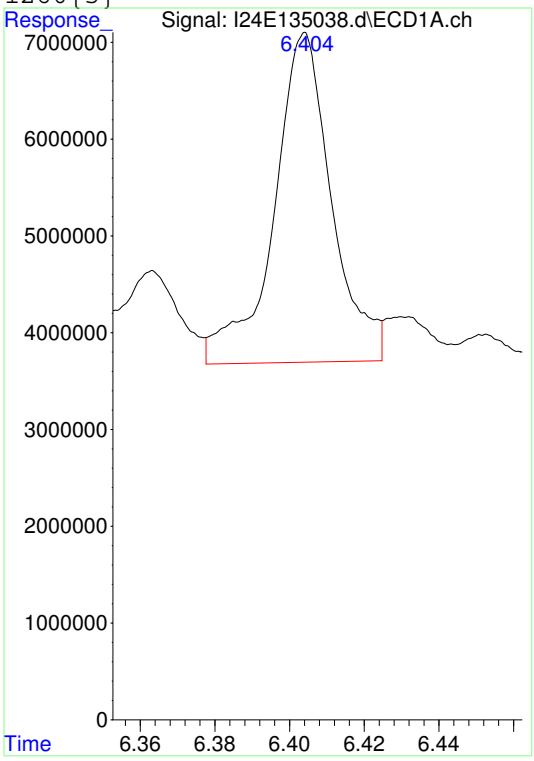
Wed May 15 08:41:18 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1260{4}



Original Integration
1260{5}



Original Int. Results

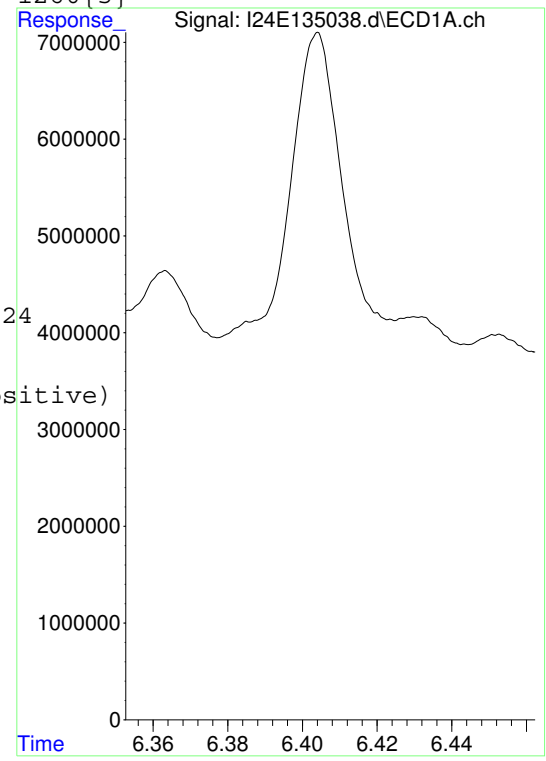
RT : 6.40
Area : 3.6615e+007
Amount: 4.33344

Manual Int. Results

Wed May 15 08:41:18 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

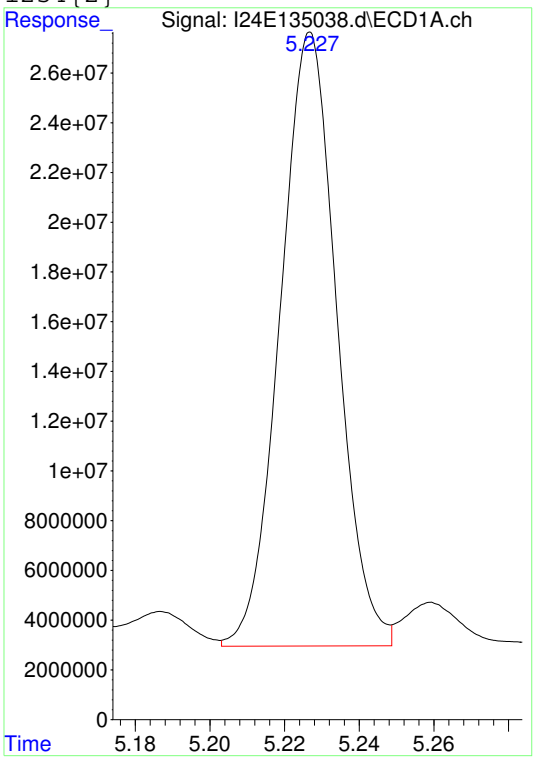
Manual Integration
1260{5}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135038.d
Acq On : 14 May 2024 8:21 pm
Operator : PJG
Sample : 24E1437-17@4X TBA
Misc :

Quant Time : Wed May 15 08:41:30 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1254{2}



Original Int. Results

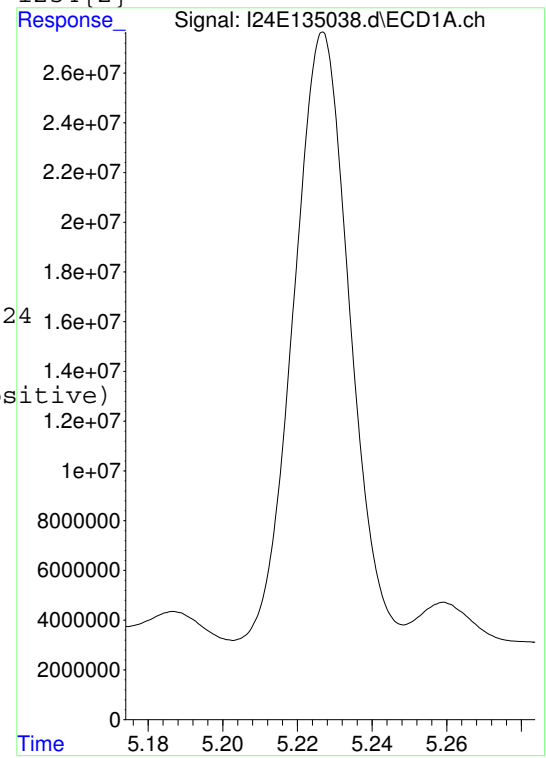
RT : 5.23
Area : 2.59843e+008
Amount: 79.2549

Manual Int. Results

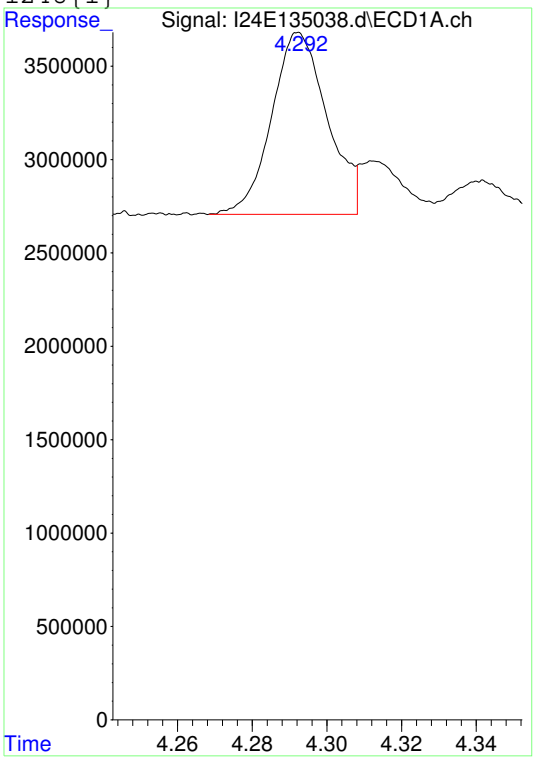
Wed May 15 08:41:26 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1254{2}



Original Integration
1248{1}



Original Int. Results

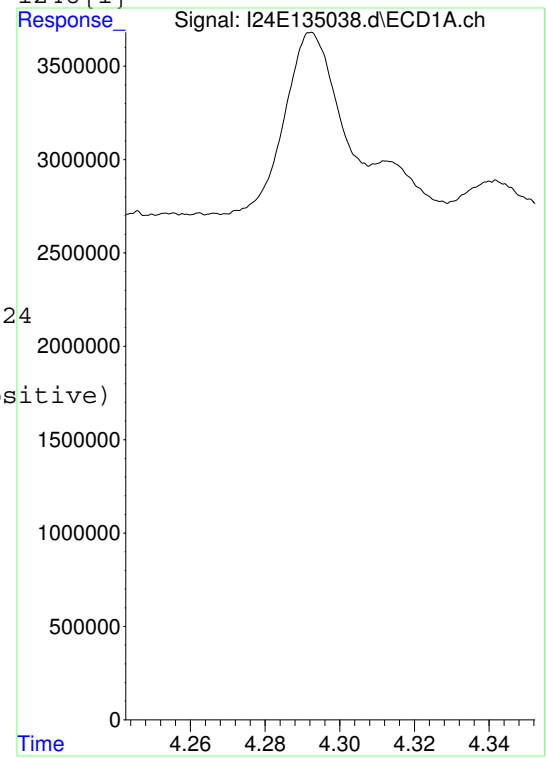
RT : 4.29
Area : 1.00341e+007
Amount: 5.44287

Manual Int. Results

Wed May 15 08:41:18 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

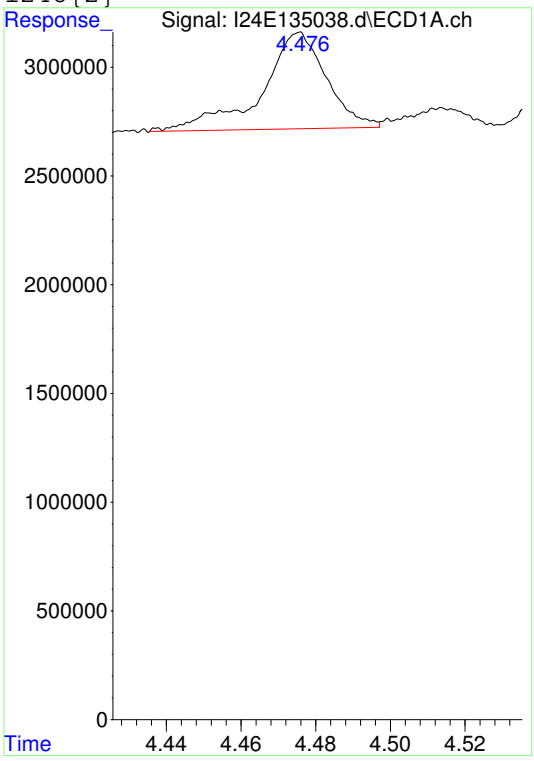
Manual Integration
1248{1}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135038.d
Acq On : 14 May 2024 8:21 pm
Operator : PJG
Sample : 24E1437-17@4X TBA
Misc :

Quant Time : Wed May 15 08:41:30 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1248{2}



Original Int. Results

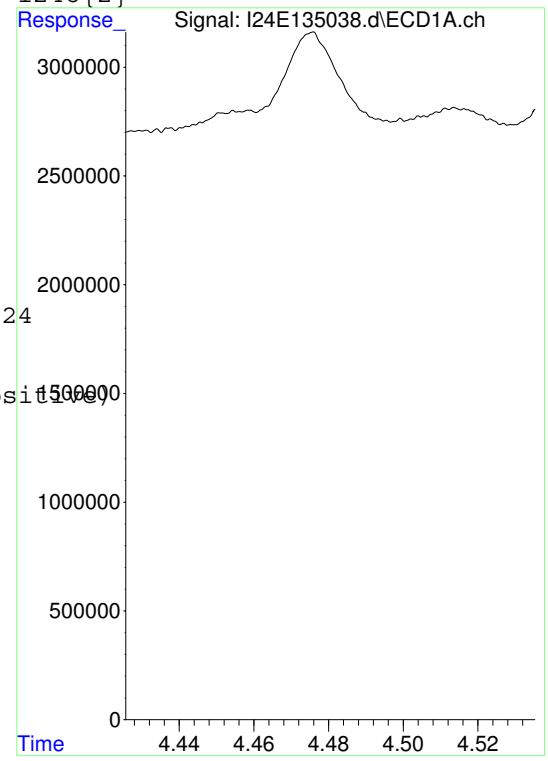
RT : 4.48
Area : 5.30374e+006
Amount: 2.06979

Manual Int. Results

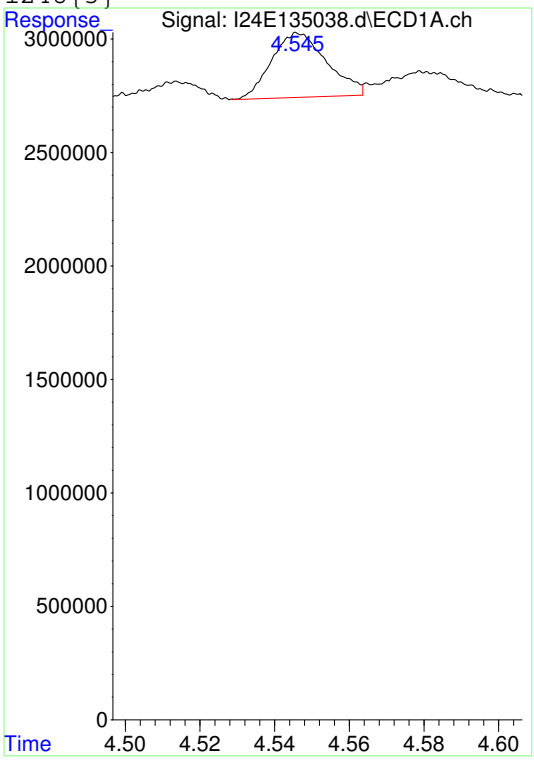
Wed May 15 08:41:17 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1248{2}



Original Integration
1248{3}



Original Int. Results

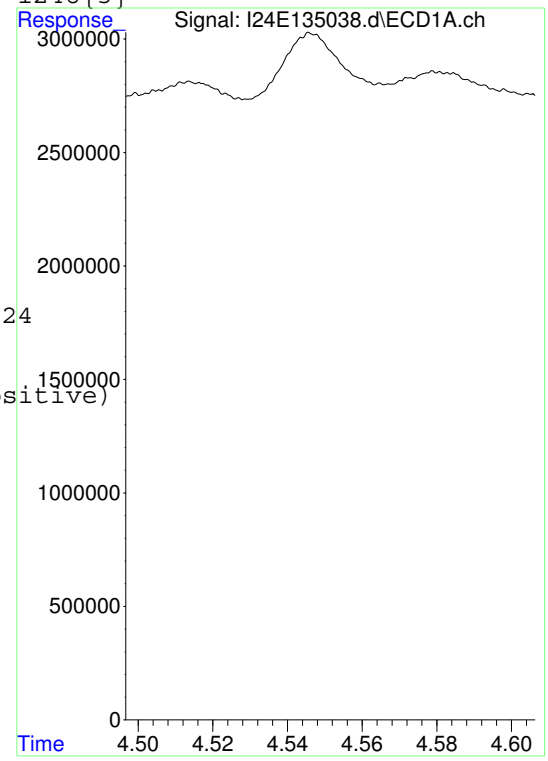
RT : 4.55
Area : 2.90859e+006
Amount: 1.64671

Manual Int. Results

Wed May 15 08:41:17 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

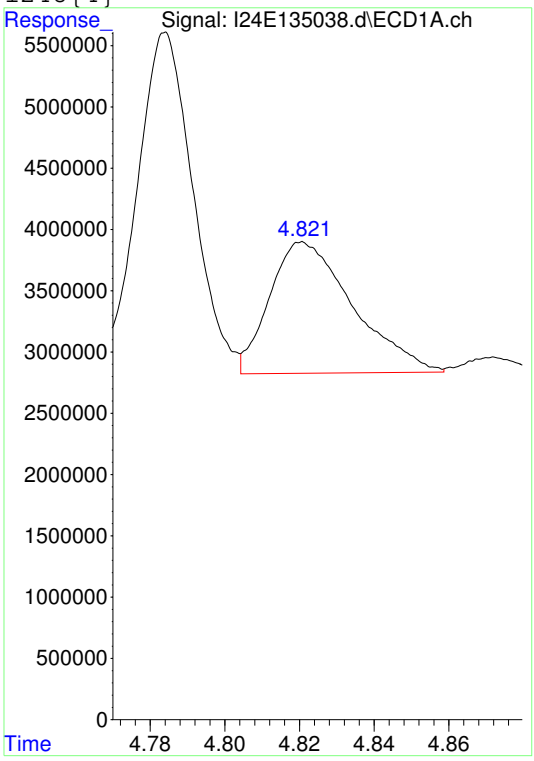
Manual Integration
1248{3}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135038.d
Acq On : 14 May 2024 8:21 pm
Operator : PJG
Sample : 24E1437-17@4X TBA
Misc :

Quant Time : Wed May 15 08:41:30 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1248{4}



Original Int. Results

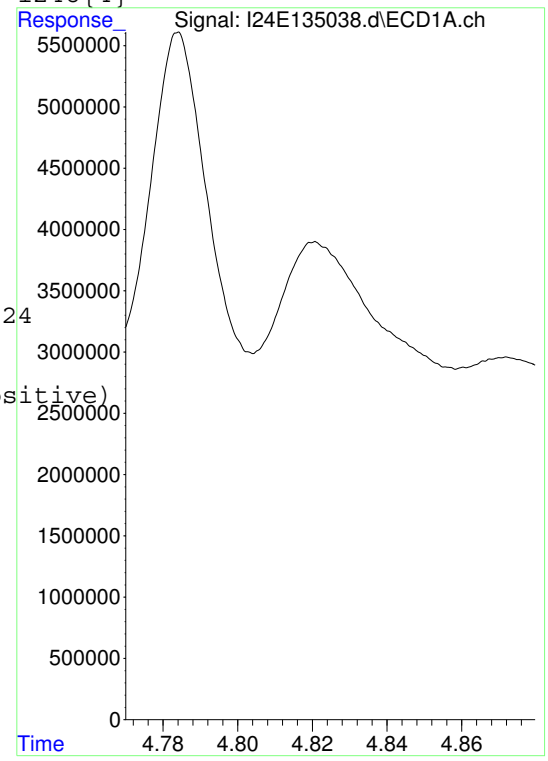
RT : 4.82
Area : 1.65931e+007
Amount: 5.60208

Manual Int. Results

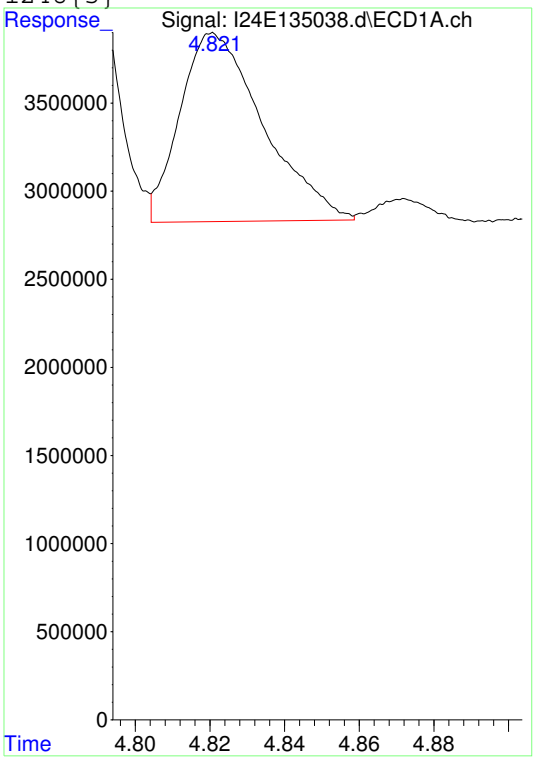
Wed May 15 08:41:17 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1248{4}



Original Integration
1248{5}



Original Int. Results

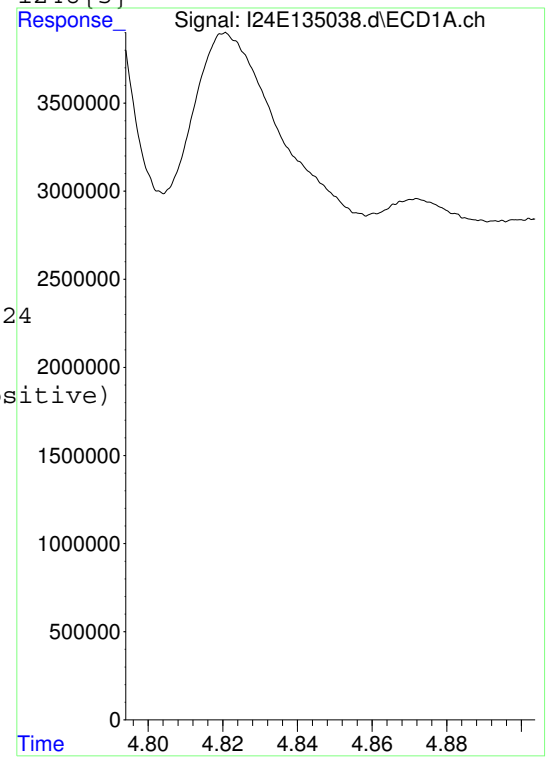
RT : 4.82
Area : 1.65931e+007
Amount: 5.80354

Manual Int. Results

Wed May 15 08:41:17 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

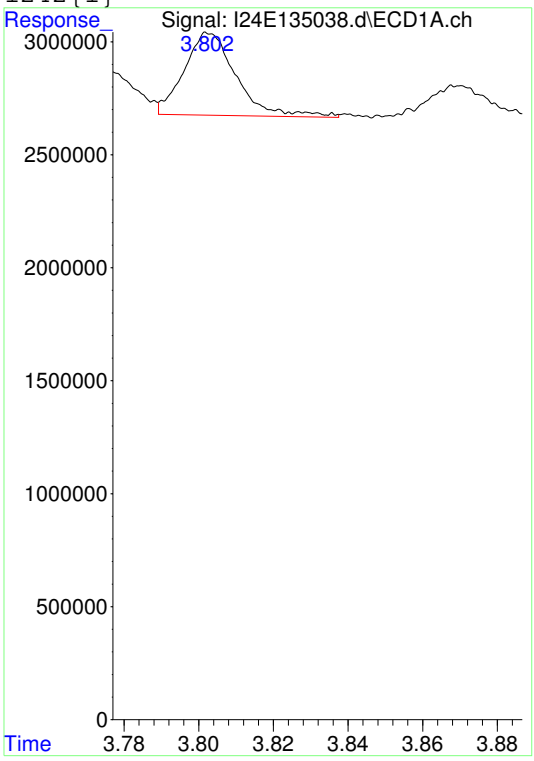
Manual Integration
1248{5}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135038.d
Acq On : 14 May 2024 8:21 pm
Operator : PJG
Sample : 24E1437-17@4X TBA
Misc :

Quant Time : Wed May 15 08:41:30 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1242{1}



Original Int. Results

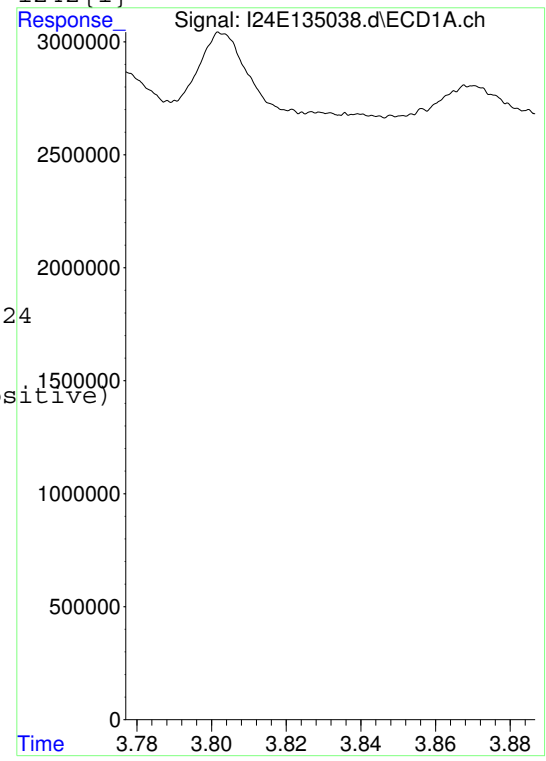
RT : 3.80
Area : 3.52514e+006
Amount: 3.28244

Manual Int. Results

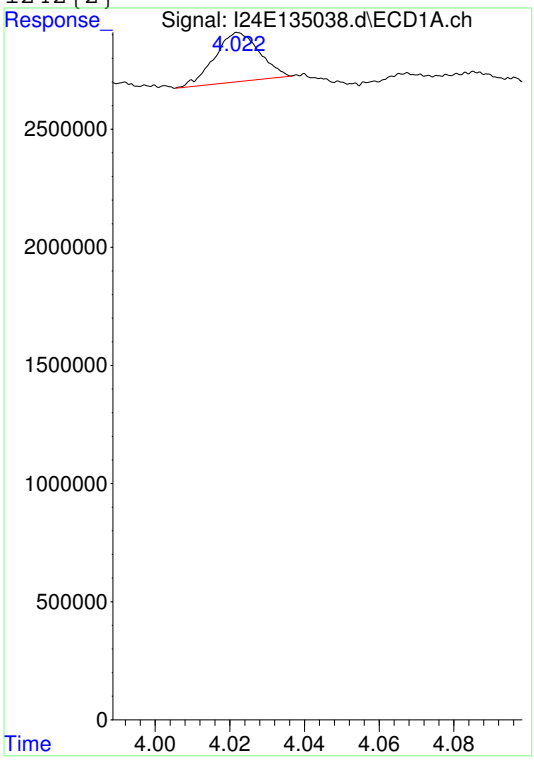
Wed May 15 08:41:17 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1242{1}



Original Integration
1242{2}



Original Int. Results

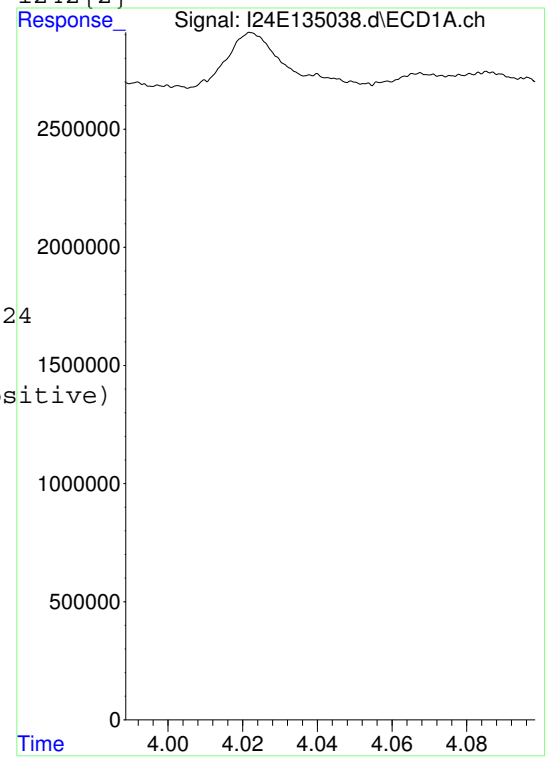
RT : 4.02
Area : 1.72406e+006
Amount: 0.526073

Manual Int. Results

Wed May 15 08:41:16 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

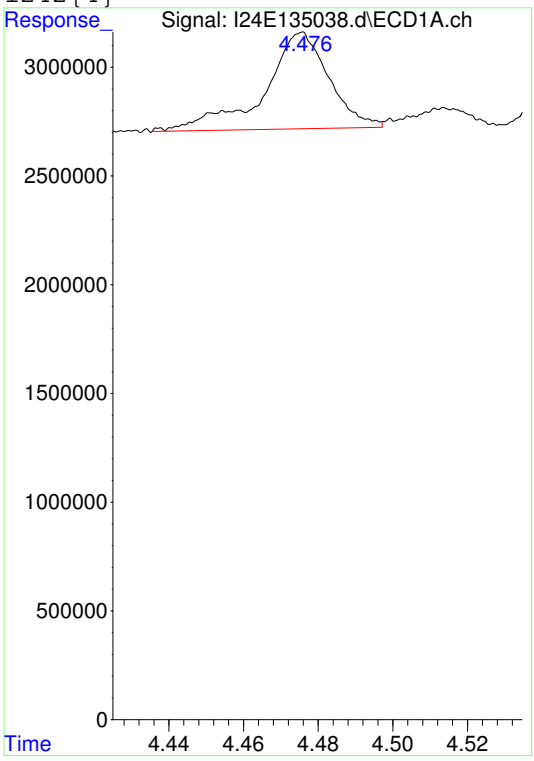
Manual Integration
1242{2}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135038.d
Acq On : 14 May 2024 8:21 pm
Operator : PJG
Sample : 24E1437-17@4X TBA
Misc :

Quant Time : Wed May 15 08:41:30 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1242{4}



Original Int. Results

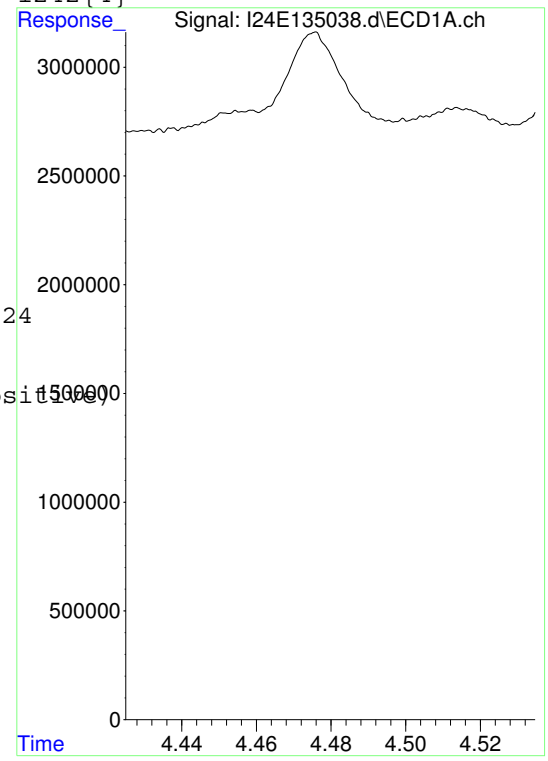
RT : 4.48
Area : 5.30374e+006
Amount: 2.89343

Manual Int. Results

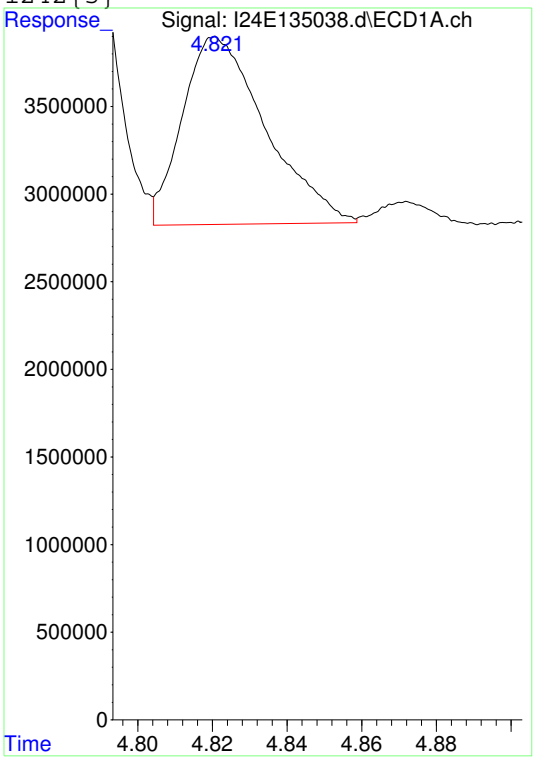
Wed May 15 08:41:16 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1242{4}



Original Integration
1242{5}



Original Int. Results

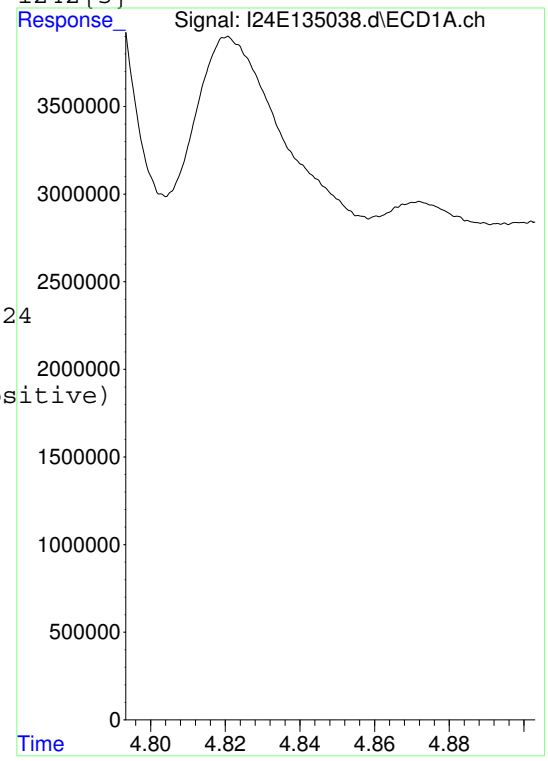
RT : 4.82
Area : 1.65931e+007
Amount: 8.89466

Manual Int. Results

Wed May 15 08:41:16 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

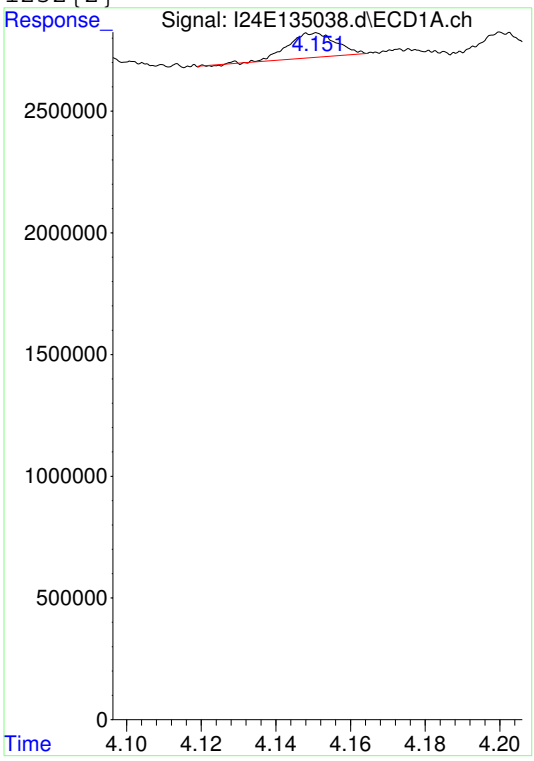
Manual Integration
1242{5}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135038.d
Acq On : 14 May 2024 8:21 pm
Operator : PJG
Sample : 24E1437-17@4X TBA
Misc :

Quant Time : Wed May 15 08:41:30 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1232{2}



Original Int. Results

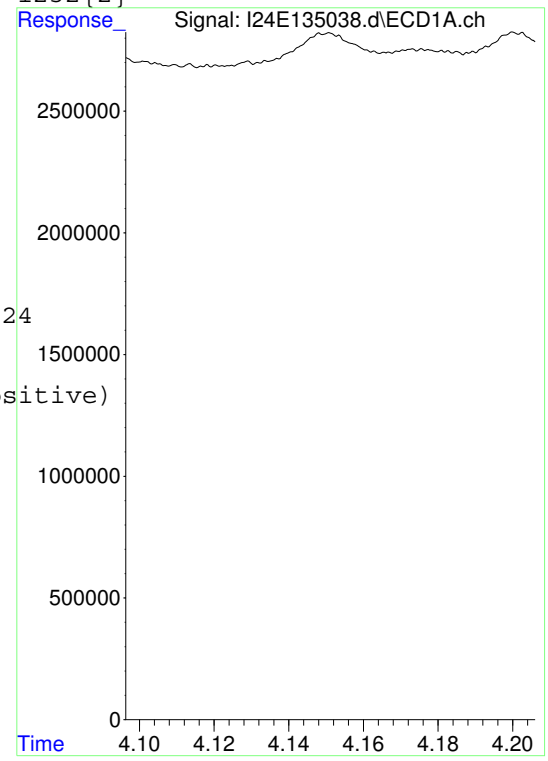
RT : 4.15
Area : 868945
Amount: 0.612979

Manual Int. Results

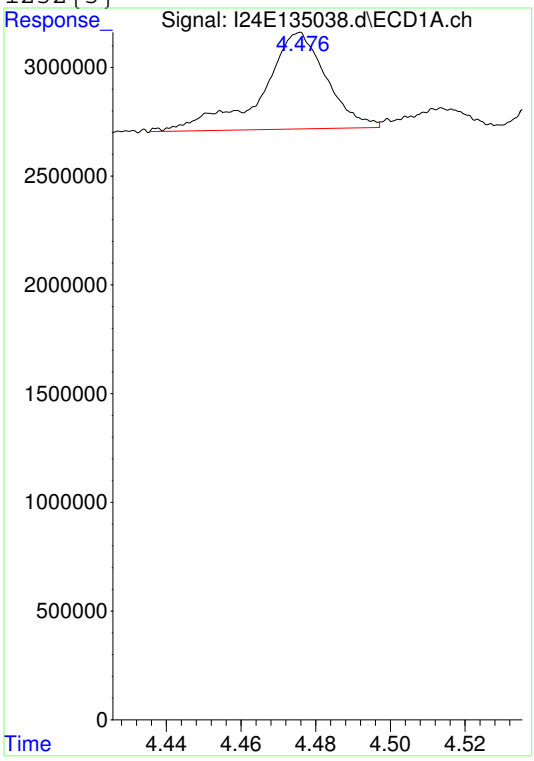
Wed May 15 08:41:15 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1232{2}



Original Integration
1232{3}



Original Int. Results

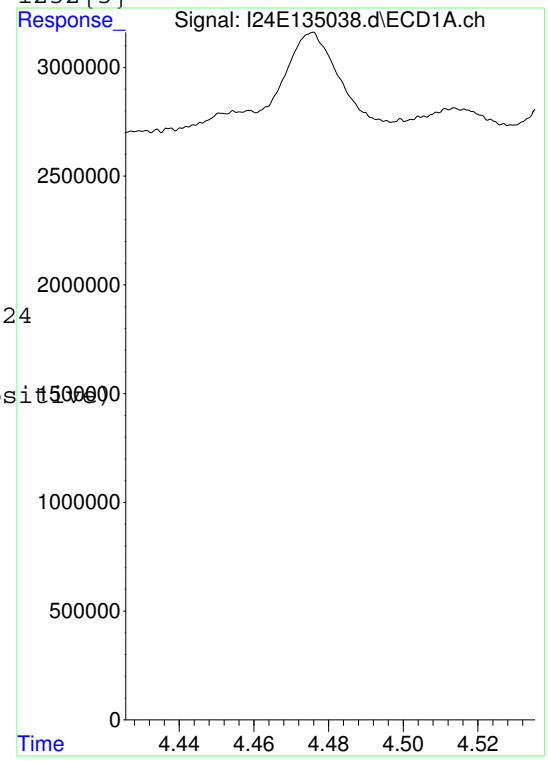
RT : 4.48
Area : 5.30374e+006
Amount: 5.27186

Manual Int. Results

Wed May 15 08:41:15 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

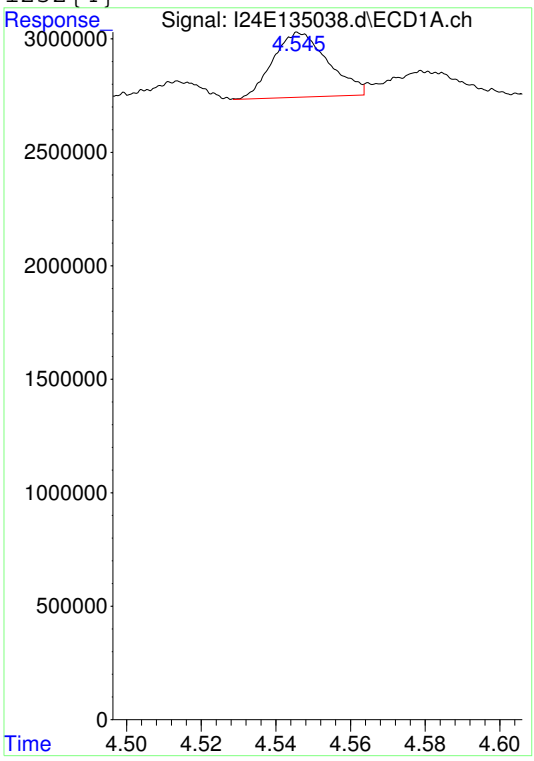
Manual Integration
1232{3}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135038.d
Acq On : 14 May 2024 8:21 pm
Operator : PJG
Sample : 24E1437-17@4X TBA
Misc :

Quant Time : Wed May 15 08:41:30 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1232{4}



Original Int. Results

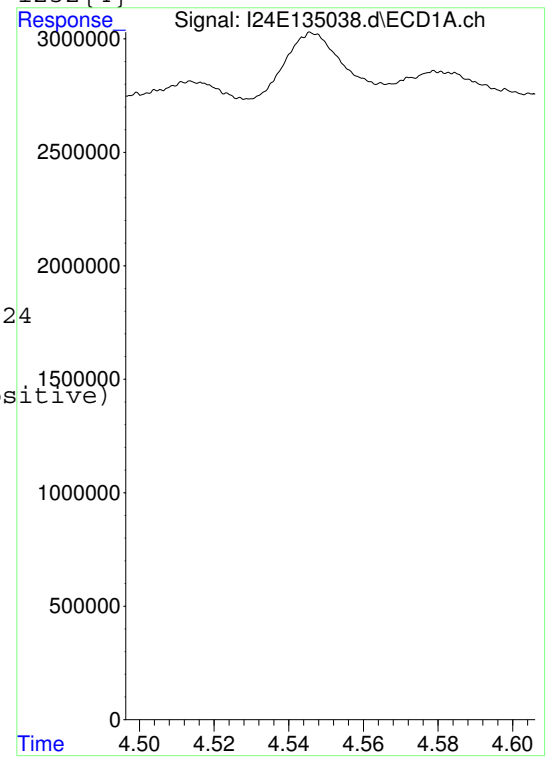
RT : 4.55
Area : 2.90859e+006
Amount: 4.30139

Manual Int. Results

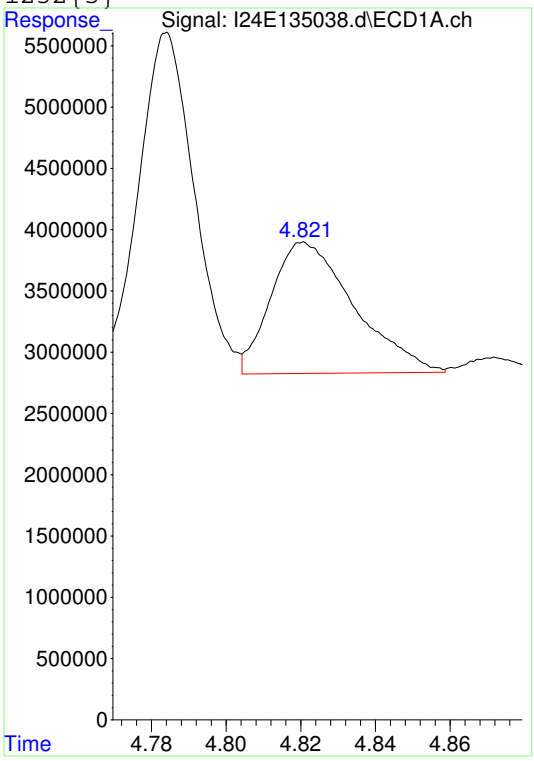
Wed May 15 08:41:15 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1232{4}



Original Integration
1232{5}



Original Int. Results

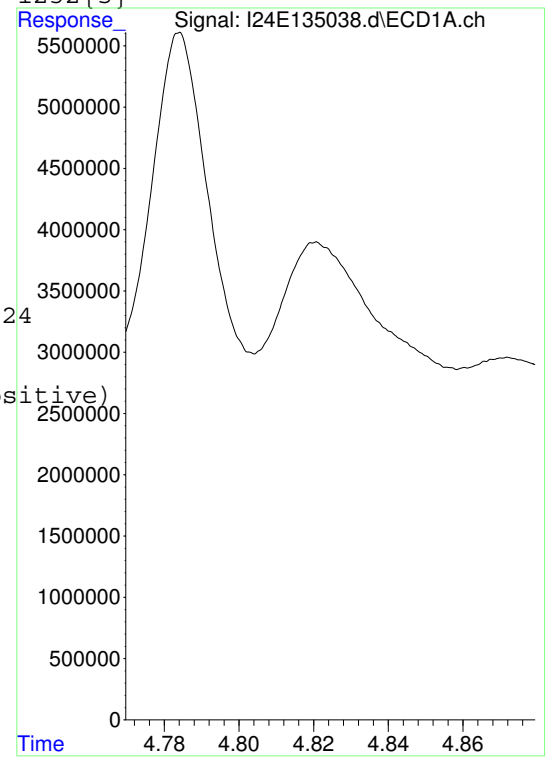
RT : 4.82
Area : 1.65931e+007
Amount: 16.8616

Manual Int. Results

Wed May 15 08:41:15 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

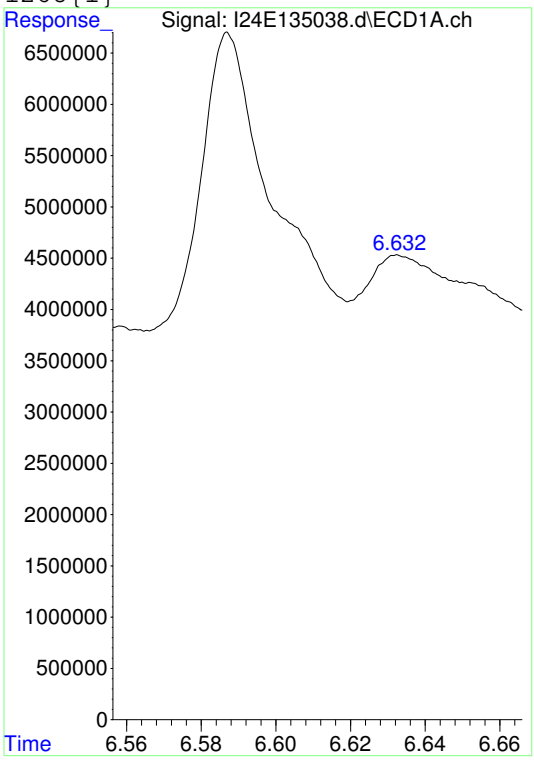
Manual Integration
1232{5}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135038.d
Acq On : 14 May 2024 8:21 pm
Operator : PJG
Sample : 24E1437-17@4X TBA
Misc :

Quant Time : Wed May 15 08:41:30 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1268{1}



Original Int. Results

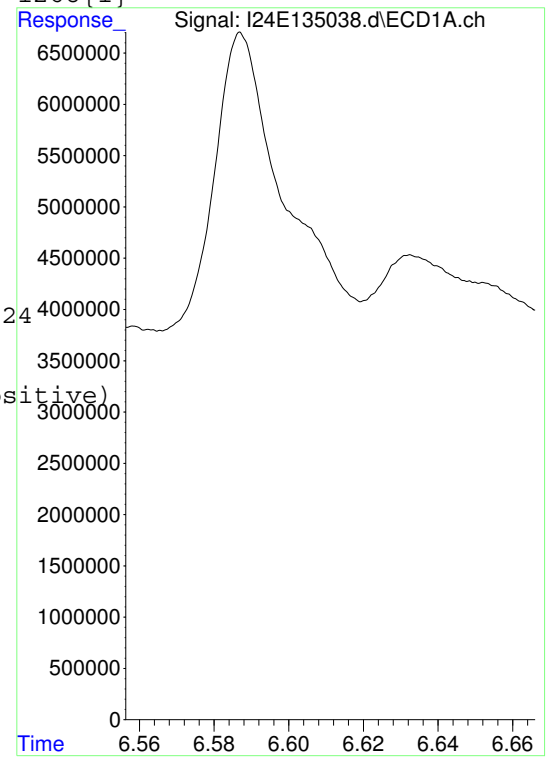
RT : 6.63
Area : 1.31766e+007
Amount: 1.25305

Manual Int. Results

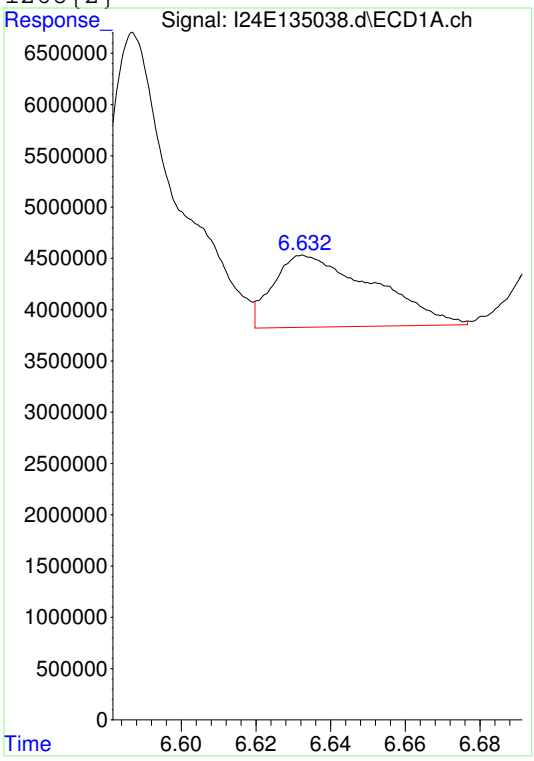
Wed May 15 08:41:15 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1268{1}



Original Integration
1268{2}



Original Int. Results

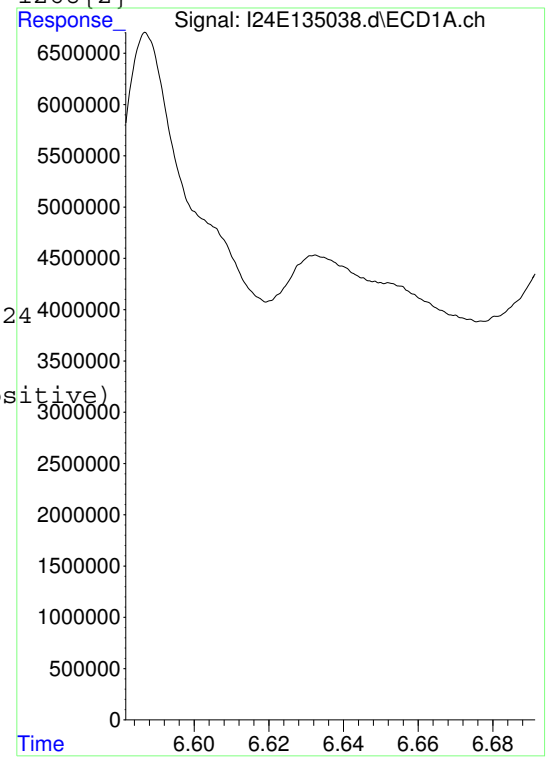
RT : 6.63
Area : 1.31766e+007
Amount: 1.23059

Manual Int. Results

Wed May 15 08:41:14 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

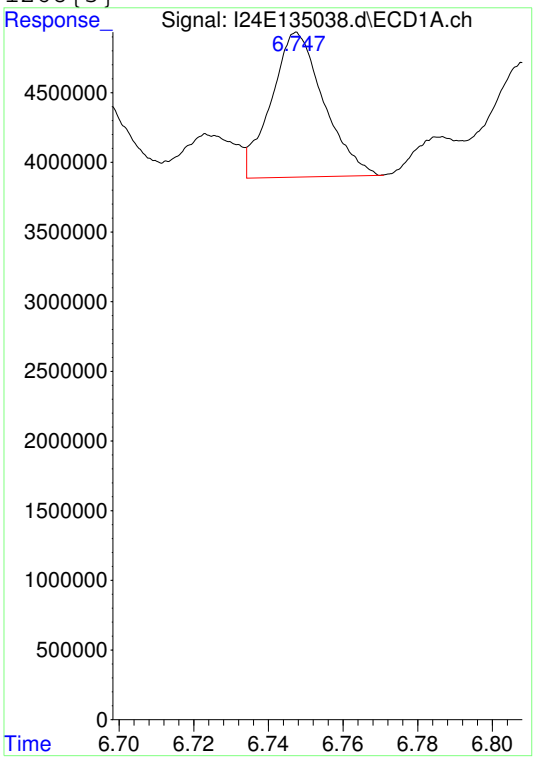
Manual Integration
1268{2}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135038.d
Acq On : 14 May 2024 8:21 pm
Operator : PJG
Sample : 24E1437-17@4X TBA
Misc :

Quant Time : Wed May 15 08:41:30 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1268{3}



Original Int. Results

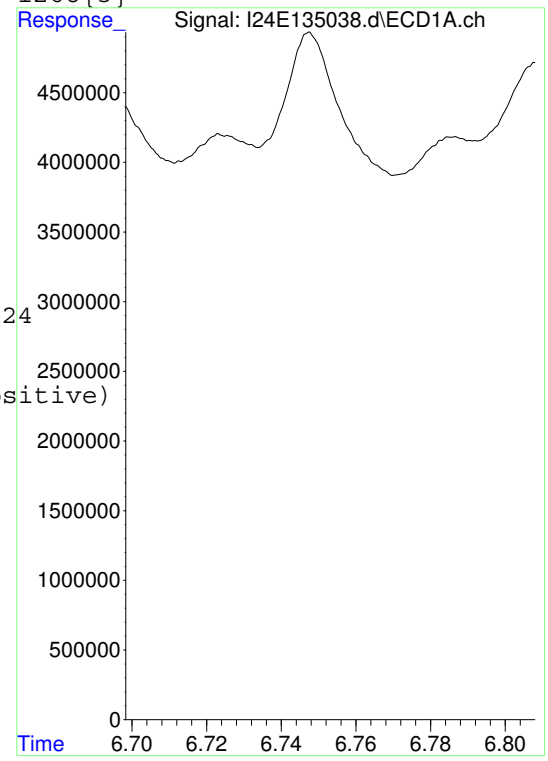
RT : 6.75
Area : 1.01831e+007
Amount: 1.0592

Manual Int. Results

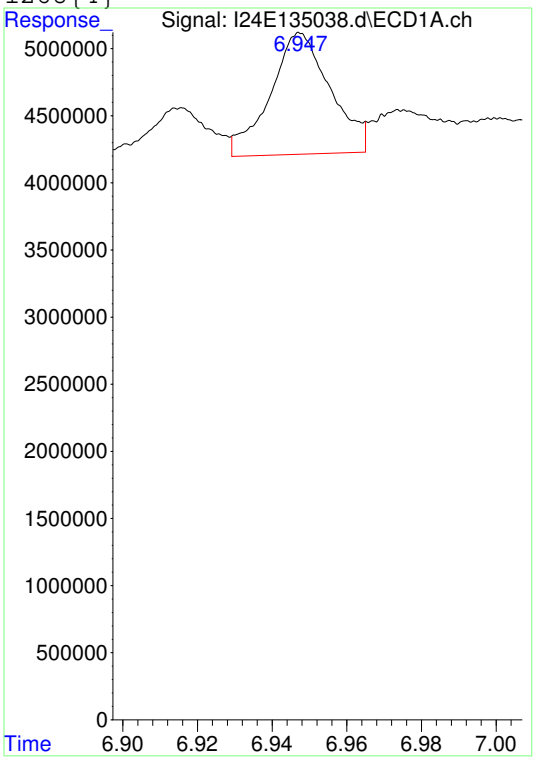
Wed May 15 08:41:14 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1268{3}



Original Integration
1268{4}



Original Int. Results

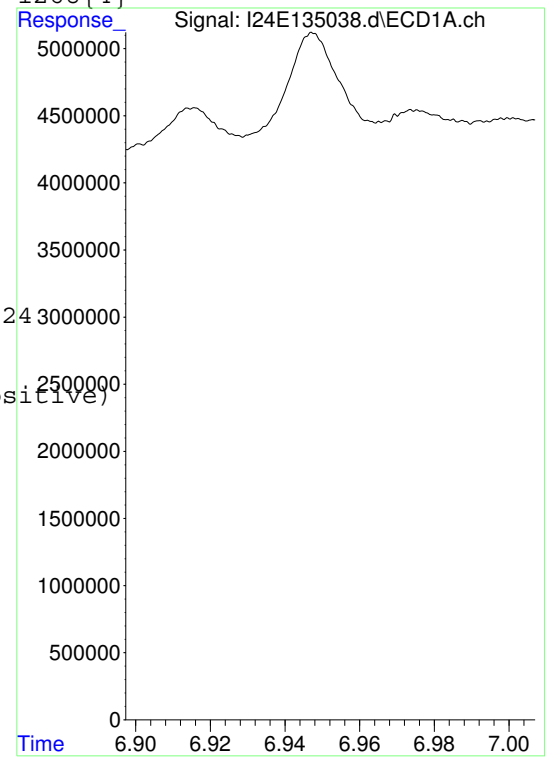
RT : 6.95
Area : 1.00866e+007
Amount: 3.44836

Manual Int. Results

Wed May 15 08:41:14 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

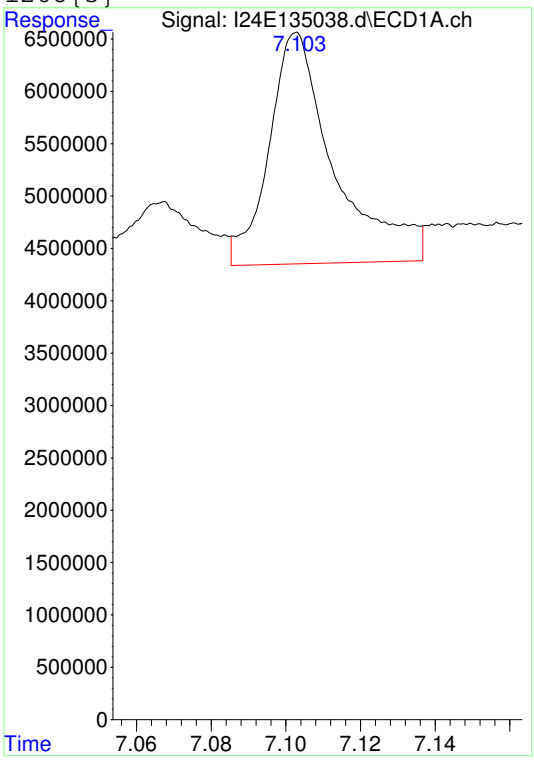
Manual Integration
1268{4}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135038.d
Acq On : 14 May 2024 8:21 pm
Operator : PJG
Sample : 24E1437-17@4X TBA
Misc :

Quant Time : Wed May 15 08:41:30 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1268{5}



Original Int. Results

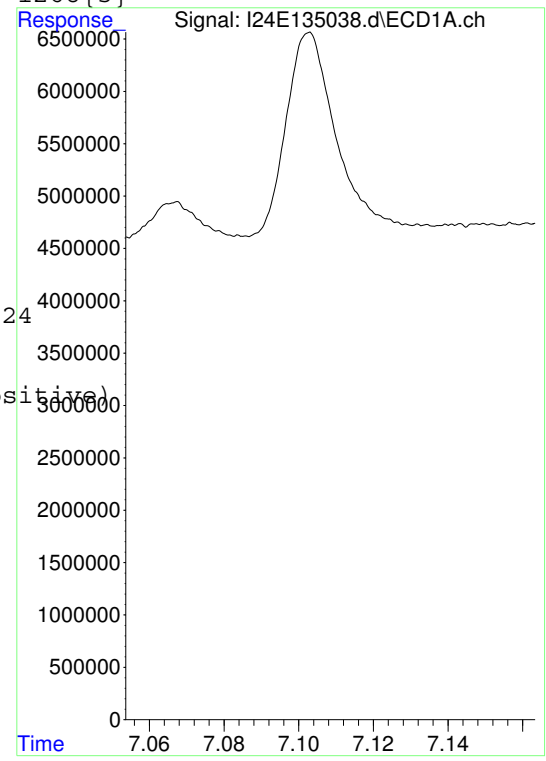
RT : 7.10
Area : 2.68114e+007
Amount: 1.08477

Manual Int. Results

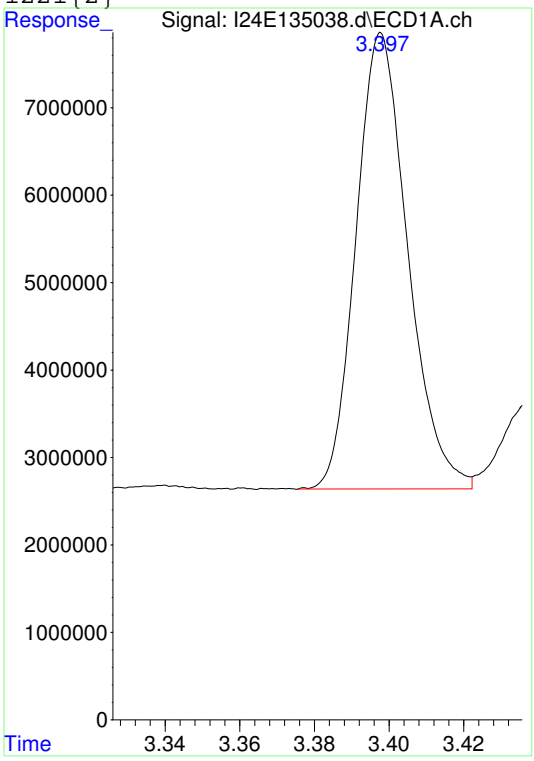
Wed May 15 08:41:14 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1268{5}



Original Integration
1221{2}



Original Int. Results

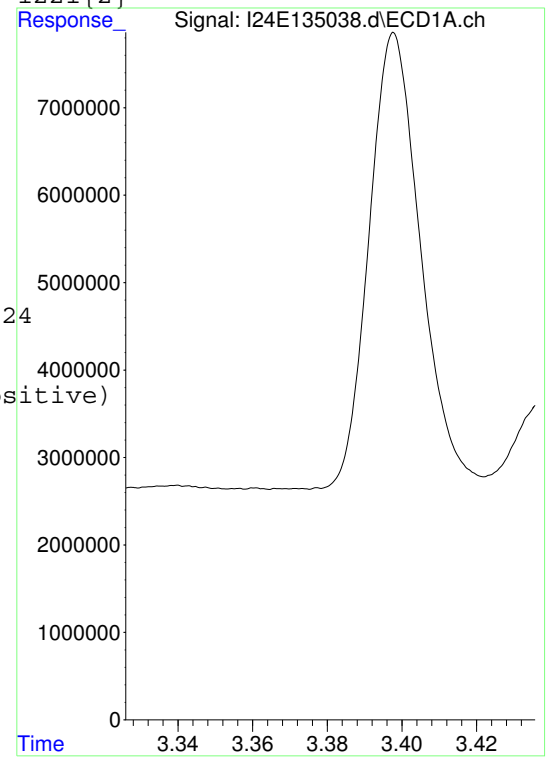
RT : 3.40
Area : 5.01773e+007
Amount: 24.2797

Manual Int. Results

Wed May 15 08:41:13 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

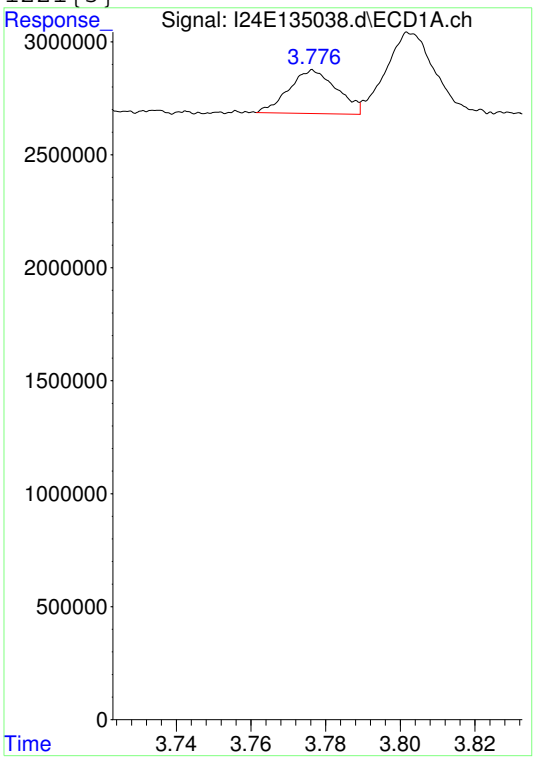
Manual Integration
1221{2}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135038.d
Acq On : 14 May 2024 8:21 pm
Operator : PJG
Sample : 24E1437-17@4X TBA
Misc :

Quant Time : Wed May 15 08:41:30 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1221{3}



Original Int. Results

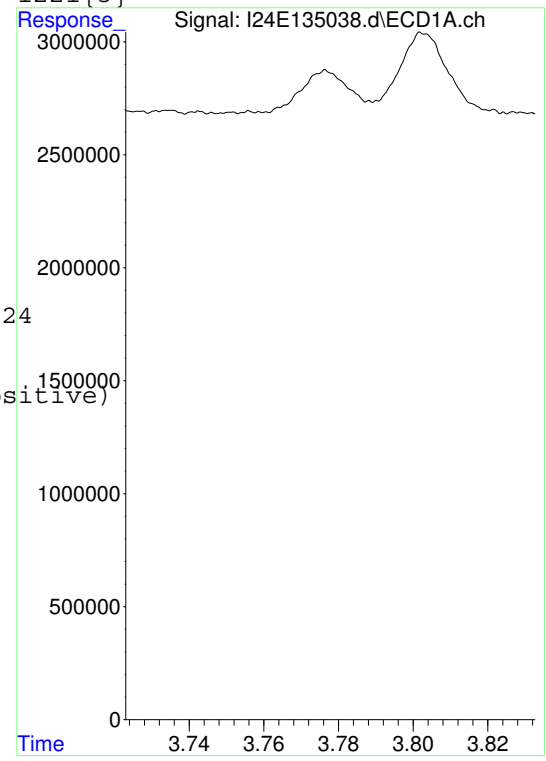
RT : 3.78
Area : 1.69883e+006
Amount: 5.839

Manual Int. Results

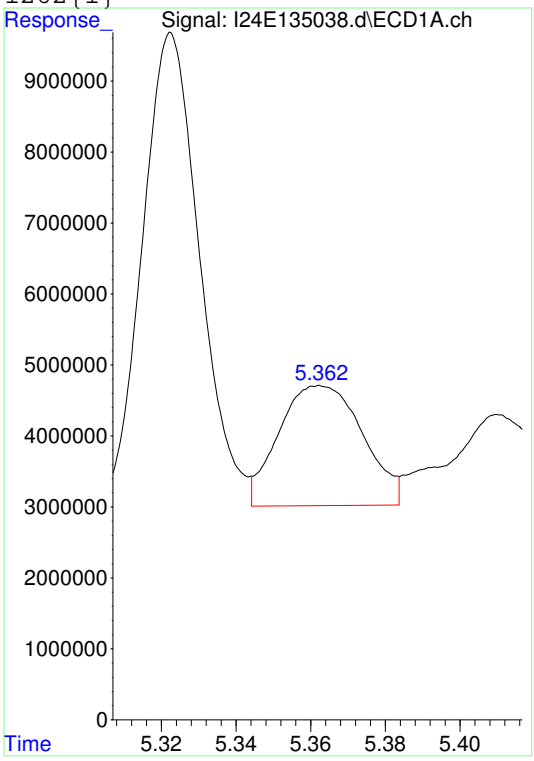
Wed May 15 08:41:13 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1221{3}



Original Integration
1262{1}



Original Int. Results

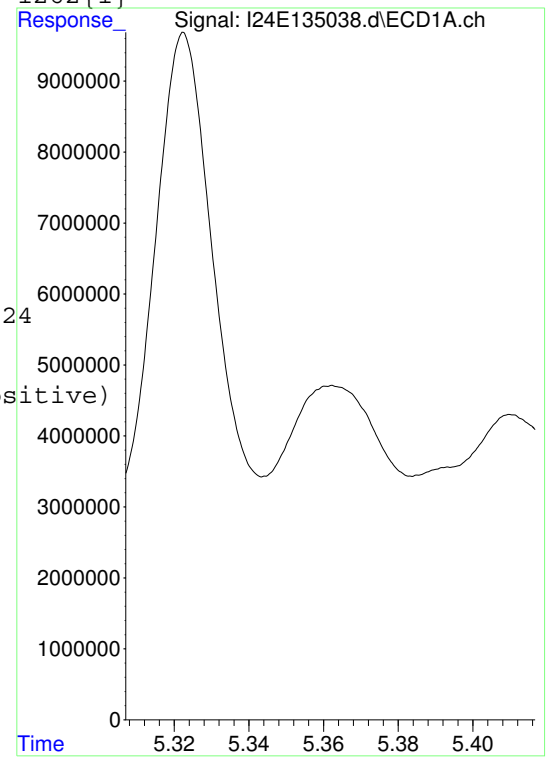
RT : 5.36
Area : 2.642e+007
Amount: 13.0058

Manual Int. Results

Wed May 15 08:41:13 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

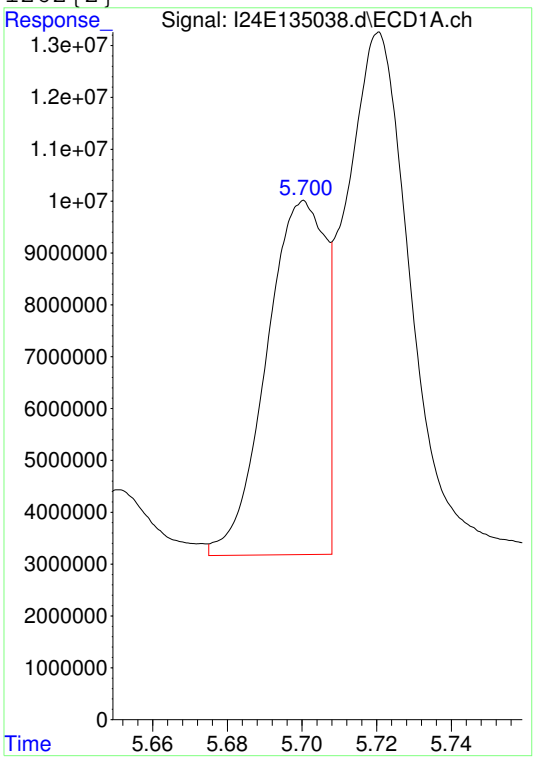
Manual Integration
1262{1}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135038.d
Acq On : 14 May 2024 8:21 pm
Operator : PJG
Sample : 24E1437-17@4X TBA
Misc :

Quant Time : Wed May 15 08:41:30 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1262{2}



Original Int. Results

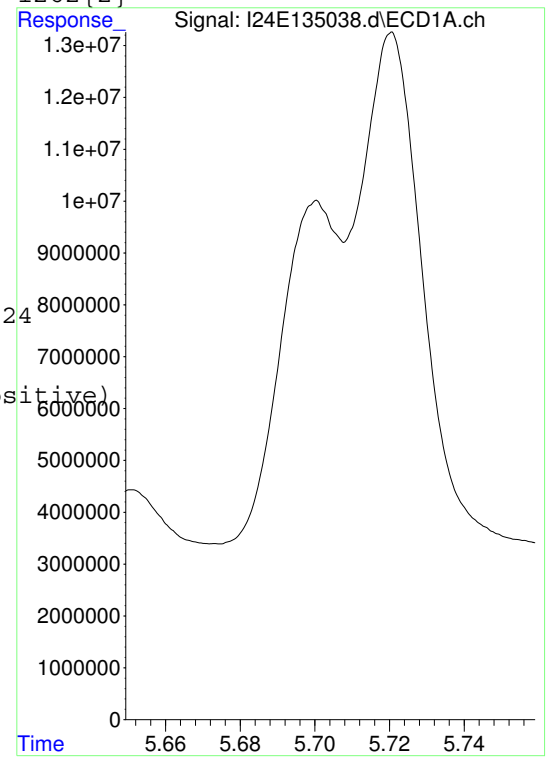
RT : 5.70
Area : 7.42231e+007
Amount: 15.8785

Manual Int. Results

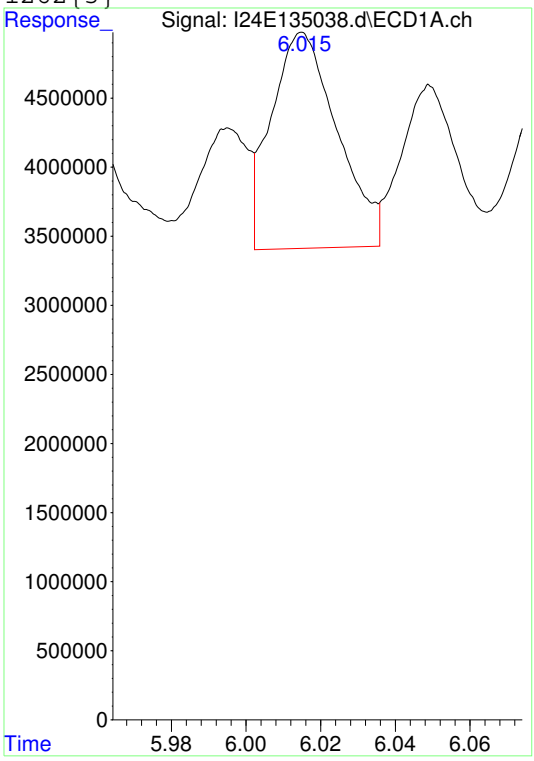
Wed May 15 08:41:13 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1262{2}



Original Integration
1262{3}



Original Int. Results

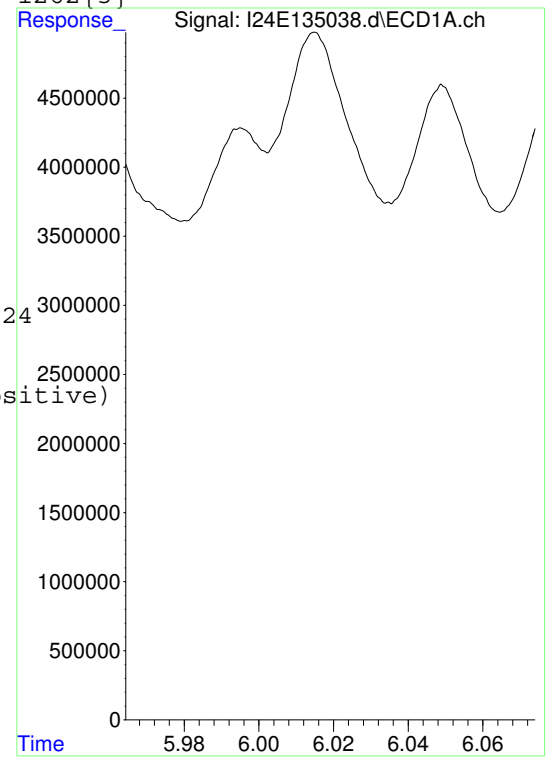
RT : 6.02
Area : 1.92952e+007
Amount: 3.8972

Manual Int. Results

Wed May 15 08:41:13 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

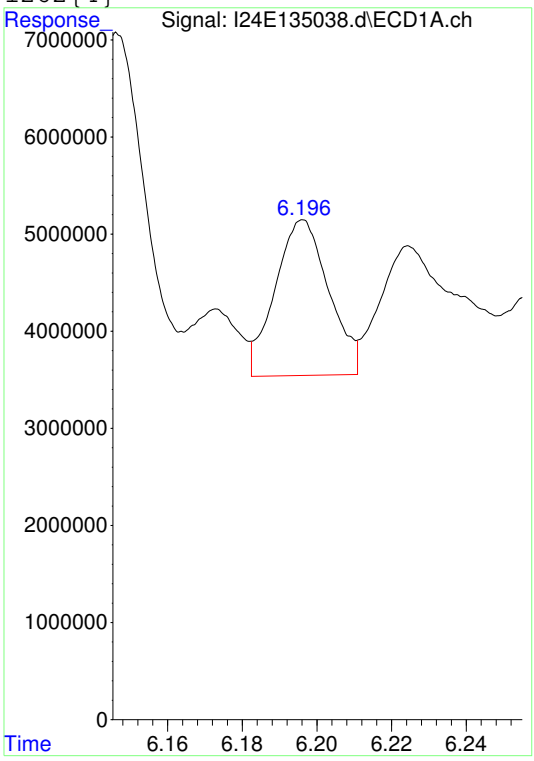
Manual Integration
1262{3}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135038.d
Acq On : 14 May 2024 8:21 pm
Operator : PJG
Sample : 24E1437-17@4X TBA
Misc :

Quant Time : Wed May 15 08:41:30 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1262{4}



Original Int. Results

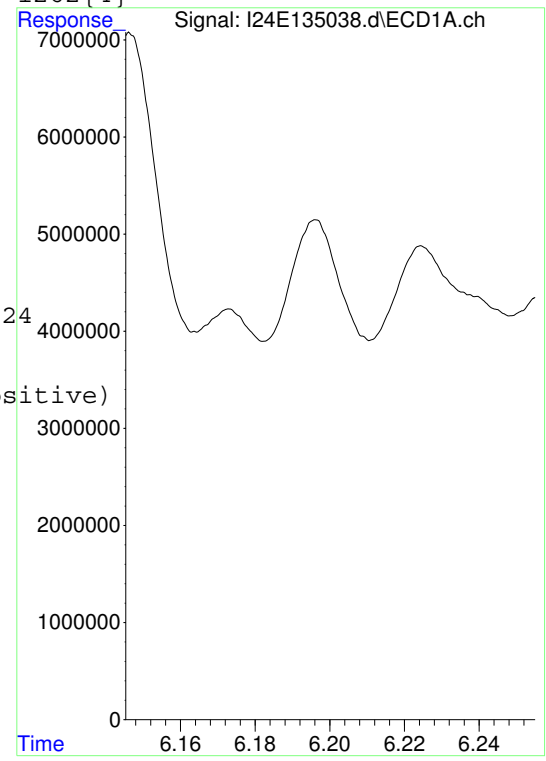
RT : 6.20
Area : 1.59678e+007
Amount: 3.5302

Manual Int. Results

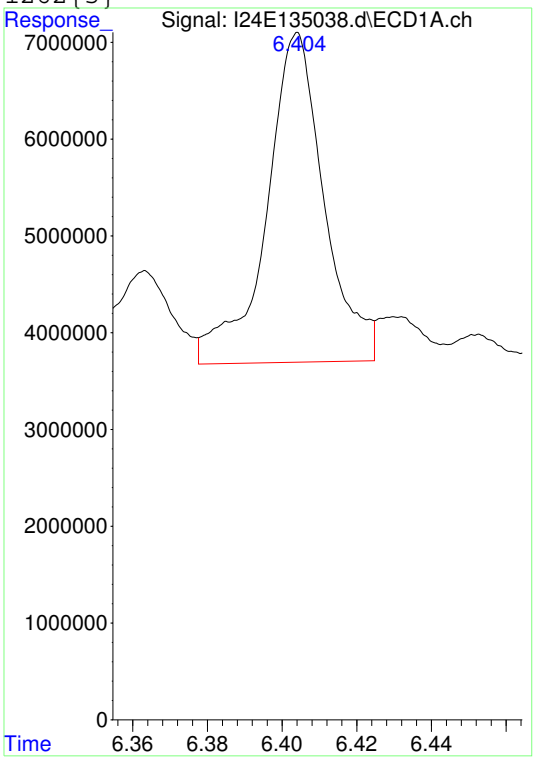
Wed May 15 08:41:12 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1262{4}



Original Integration
1262{5}



Original Int. Results

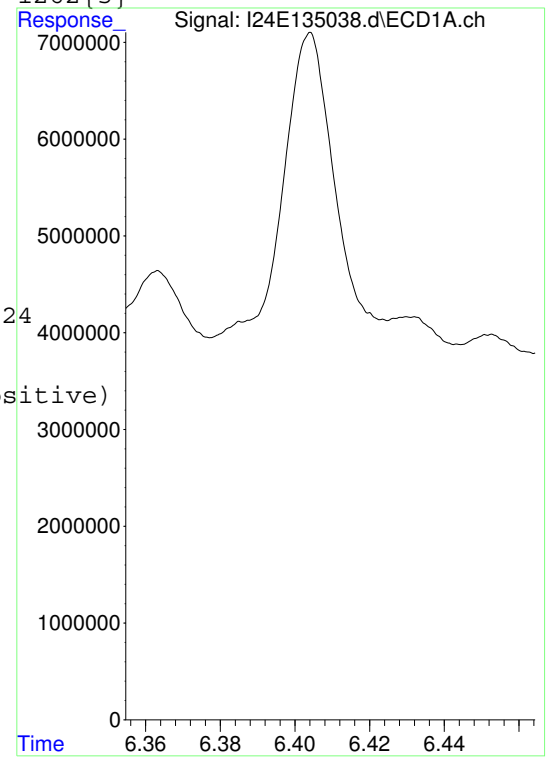
RT : 6.40
Area : 3.6615e+007
Amount: 3.63366

Manual Int. Results

Wed May 15 08:41:12 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

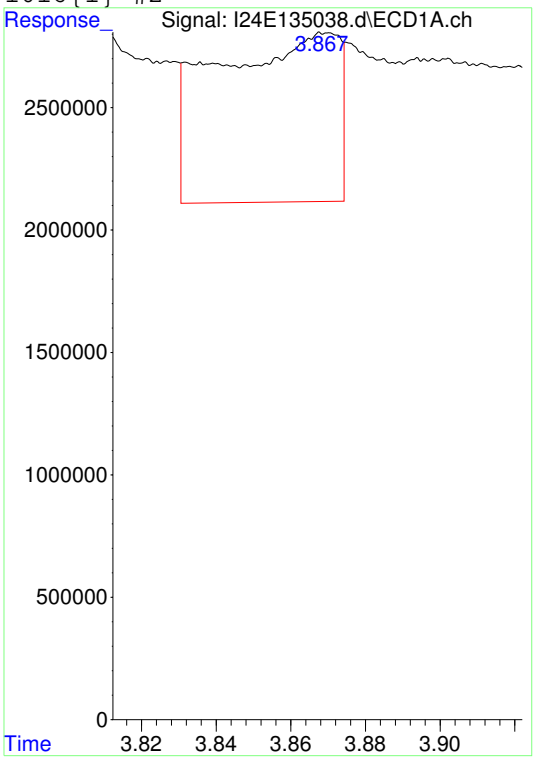
Manual Integration
1262{5}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135038.d
Acq On : 14 May 2024 8:21 pm
Operator : PJG
Sample : 24E1437-17@4X TBA
Misc :

Quant Time : Wed May 15 08:41:30 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1016{1} #2



Original Int. Results

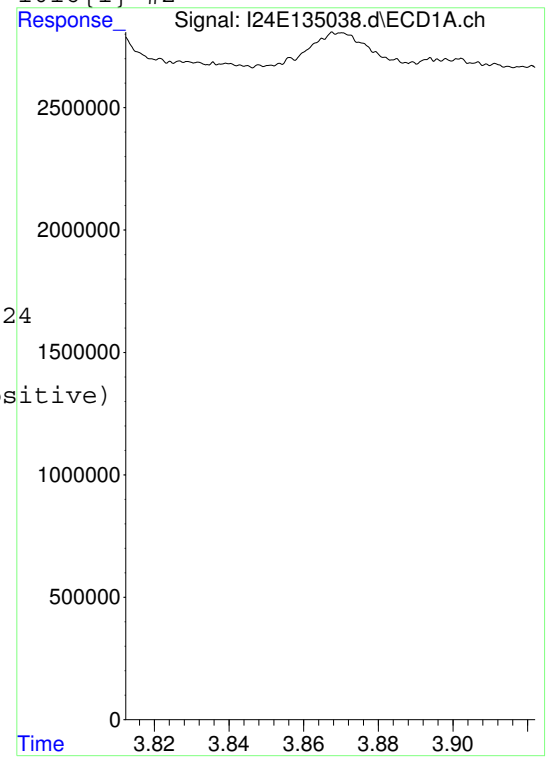
RT : 3.85
Area : 1.70586e+006
Amount: 2.25414

Manual Int. Results

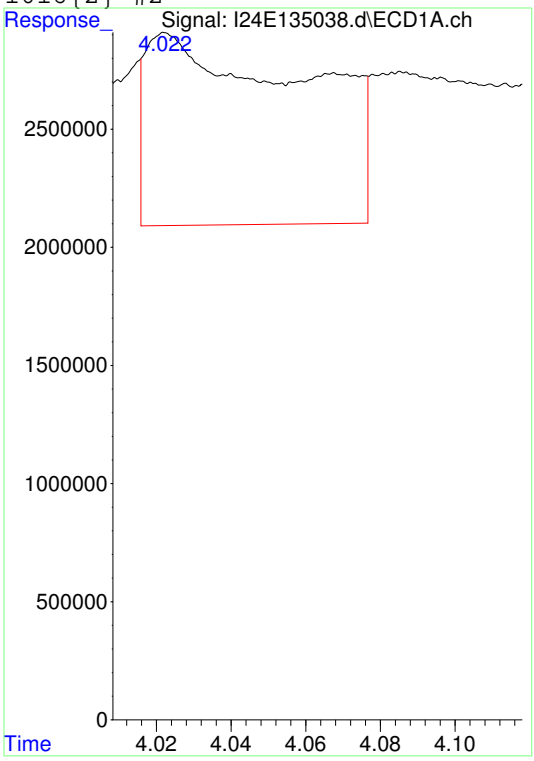
Wed May 15 08:41:20 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1016{1} #2



Original Integration
1016{2} #2



Original Int. Results

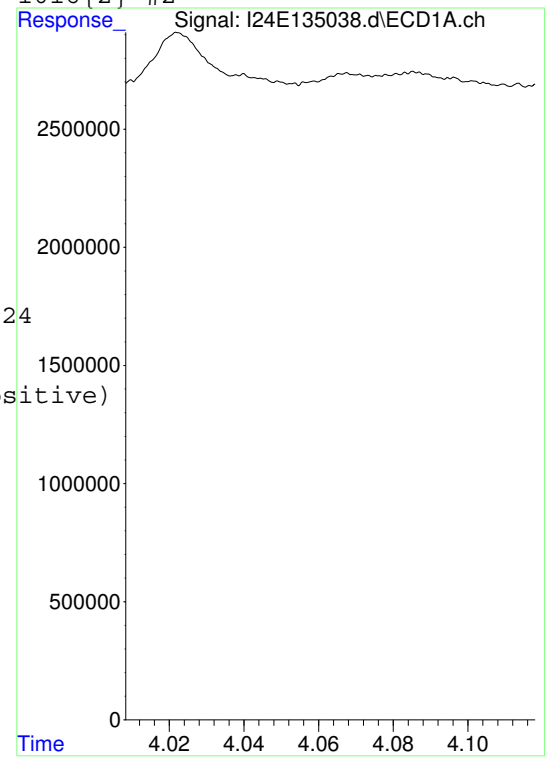
RT : 4.06
Area : 2.34501e+006
Amount: 0.724545

Manual Int. Results

Wed May 15 08:41:19 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

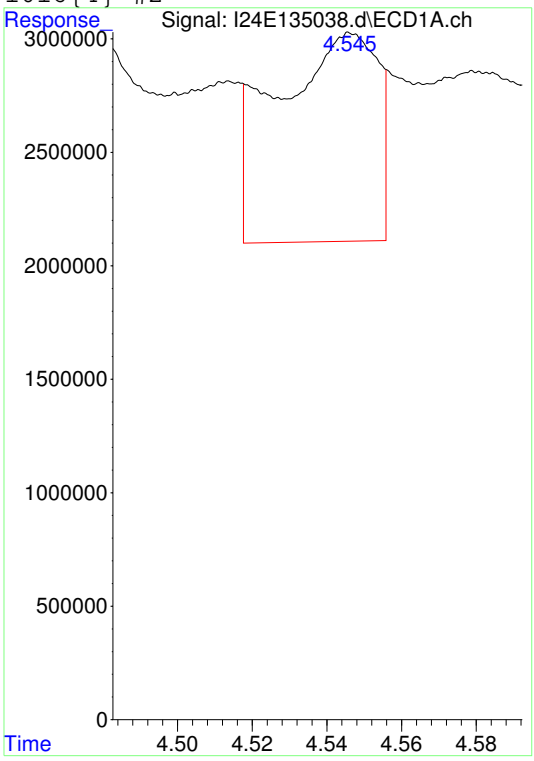
Manual Integration
1016{2} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135038.d
Acq On : 14 May 2024 8:21 pm
Operator : PJG
Sample : 24E1437-17@4X TBA
Misc :

Quant Time : Wed May 15 08:41:30 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1016{4} #2



Original Int. Results

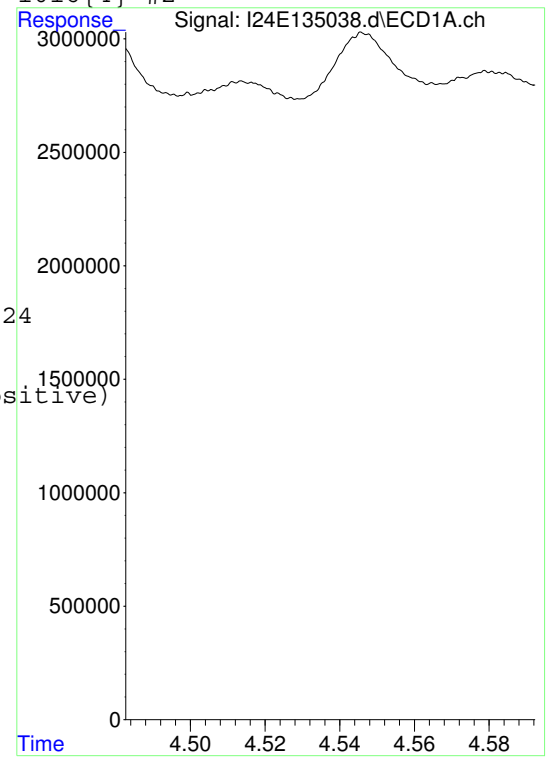
RT : 4.54
Area : 3.41326e+006
Amount: 2.02371

Manual Int. Results

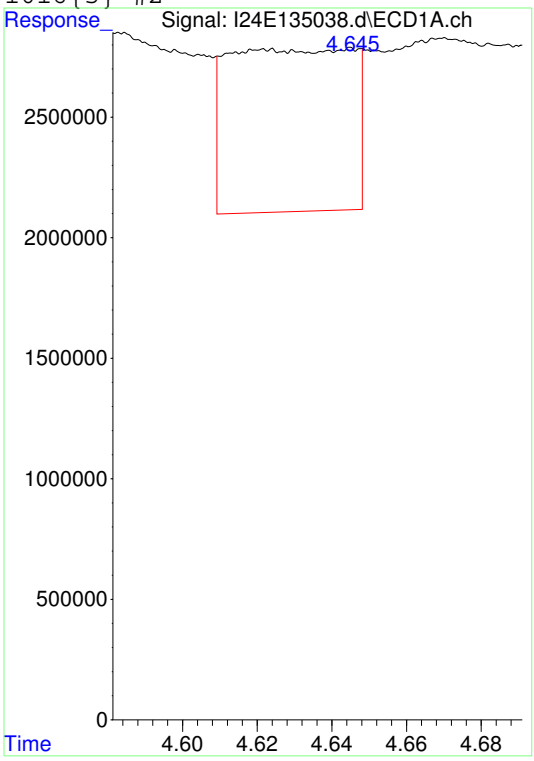
Wed May 15 08:41:19 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1016{4} #2



Original Integration
1016{5} #2



Original Int. Results

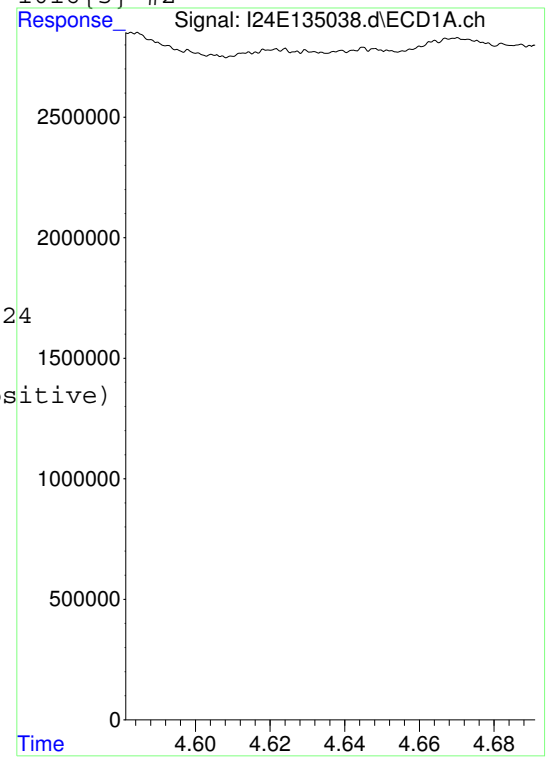
RT : 4.63
Area : 1.54006e+006
Amount: 0.972548

Manual Int. Results

Wed May 15 08:41:19 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

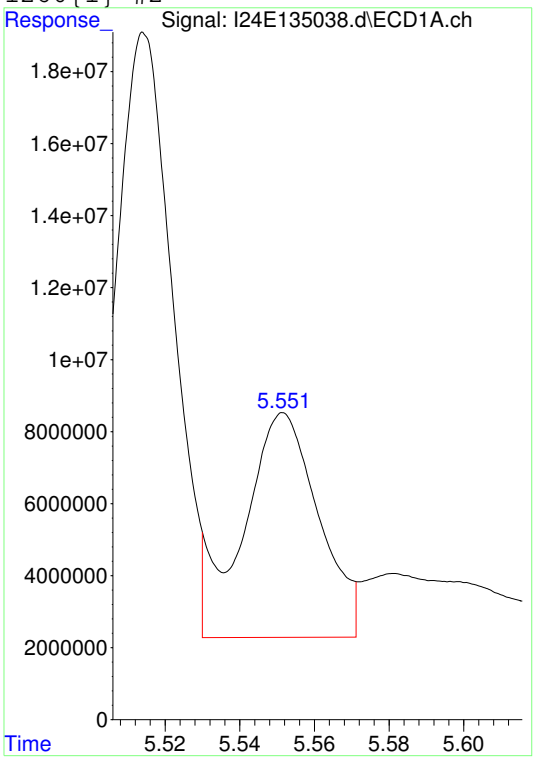
Manual Integration
1016{5} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135038.d
Acq On : 14 May 2024 8:21 pm
Operator : PJG
Sample : 24E1437-17@4X TBA
Misc :

Quant Time : Wed May 15 08:41:30 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1260{1} #2



Original Int. Results

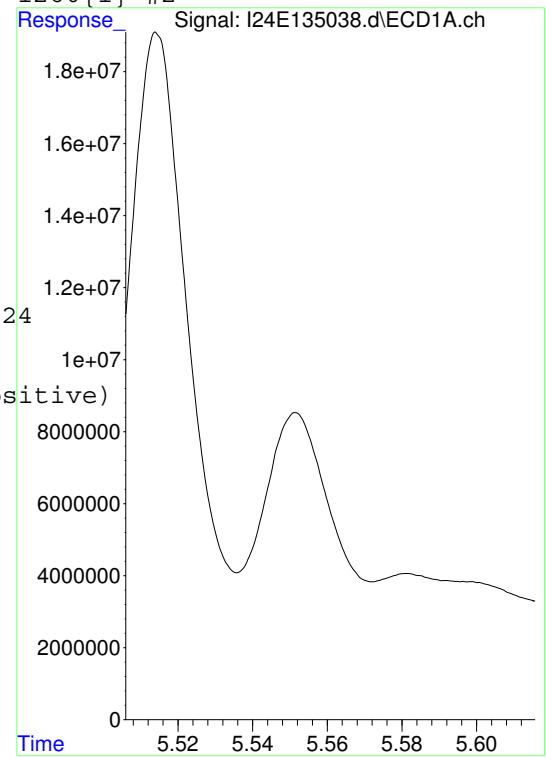
RT : 5.56
Area : 4.32486e+007
Amount: 12.5304

Manual Int. Results

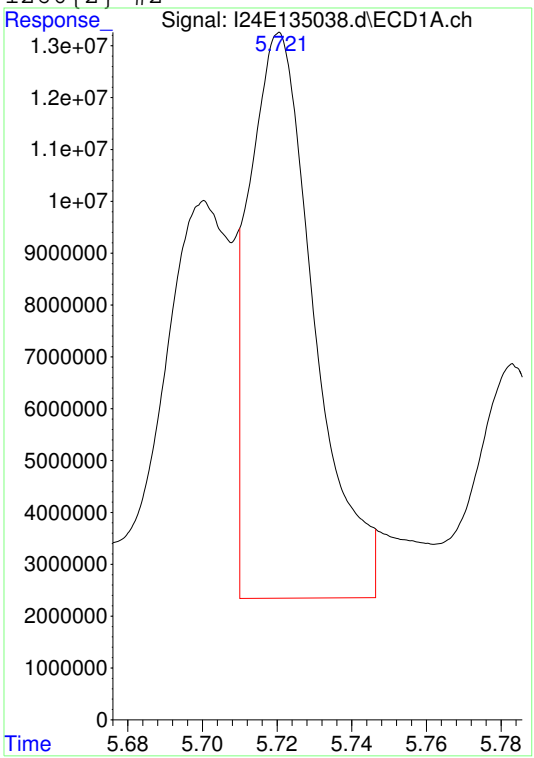
Wed May 15 08:41:19 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1260{1} #2



Original Integration
1260{2} #2



Original Int. Results

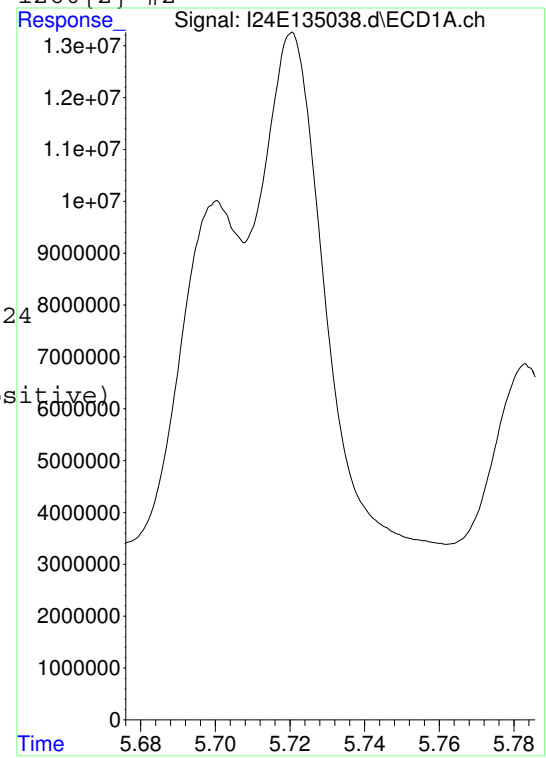
RT : 5.73
Area : 5.54182e+007
Amount: 13.7458

Manual Int. Results

Wed May 15 08:41:18 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

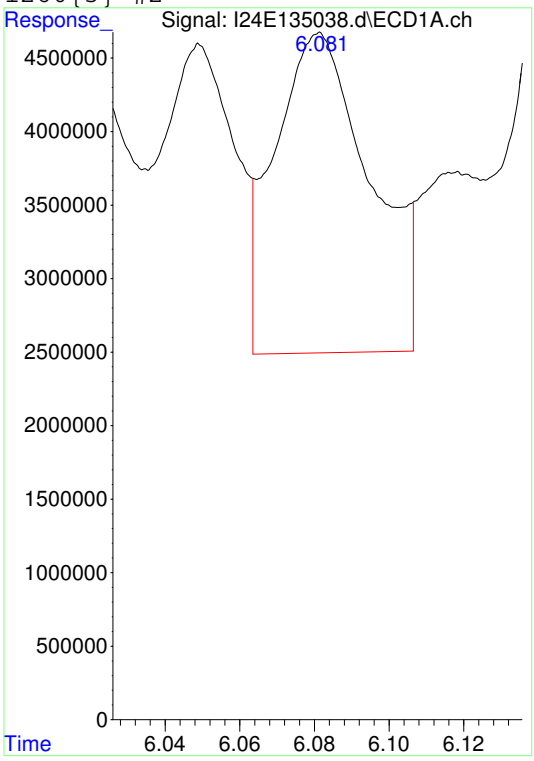
Manual Integration
1260{2} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135038.d
Acq On : 14 May 2024 8:21 pm
Operator : PJG
Sample : 24E1437-17@4X TBA
Misc :

Quant Time : Wed May 15 08:41:30 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1260{3} #2



Original Int. Results

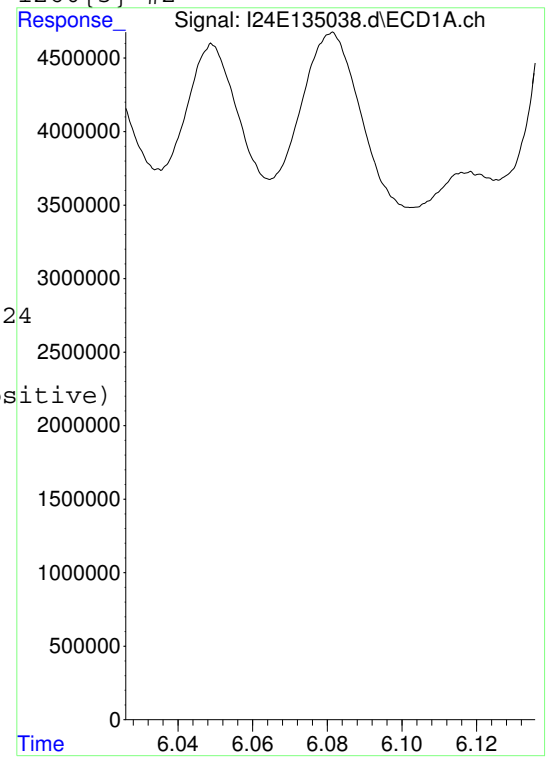
RT : 6.08
Area : 2.19109e+007
Amount: 7.24668

Manual Int. Results

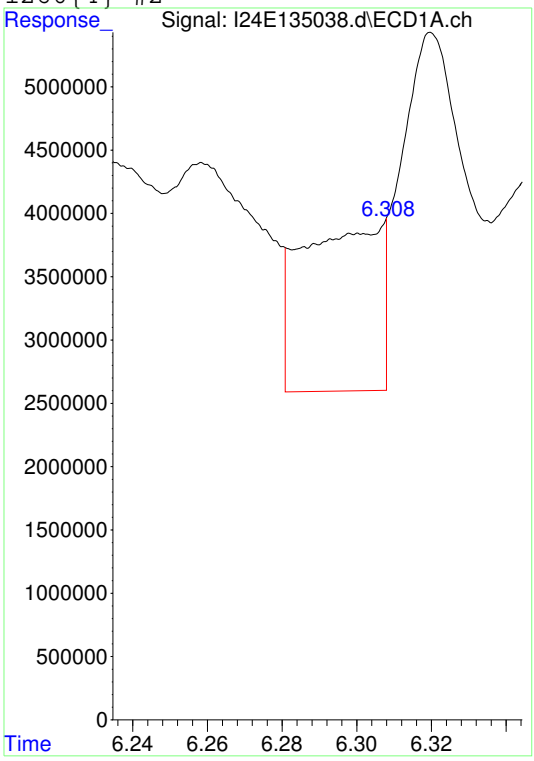
Wed May 15 08:41:18 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1260{3} #2



Original Integration
1260{4} #2



Original Int. Results

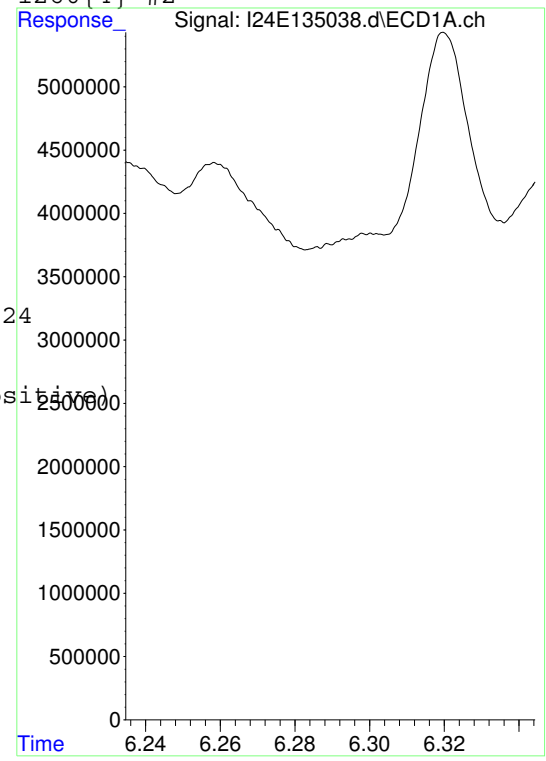
RT : 6.29
Area : 1.16927e+007
Amount: 3.42568

Manual Int. Results

Wed May 15 08:41:18 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

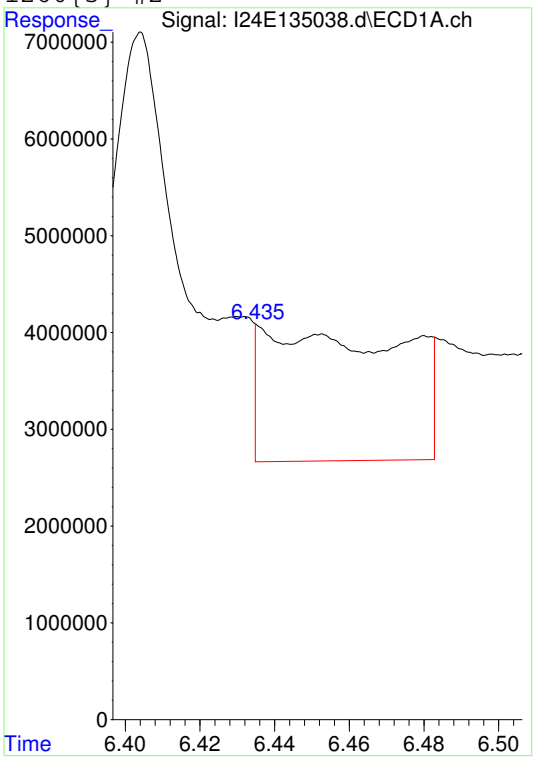
Manual Integration
1260{4} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135038.d
Acq On : 14 May 2024 8:21 pm
Operator : PJG
Sample : 24E1437-17@4X TBA
Misc :

Quant Time : Wed May 15 08:41:30 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1260{5} #2



Original Int. Results

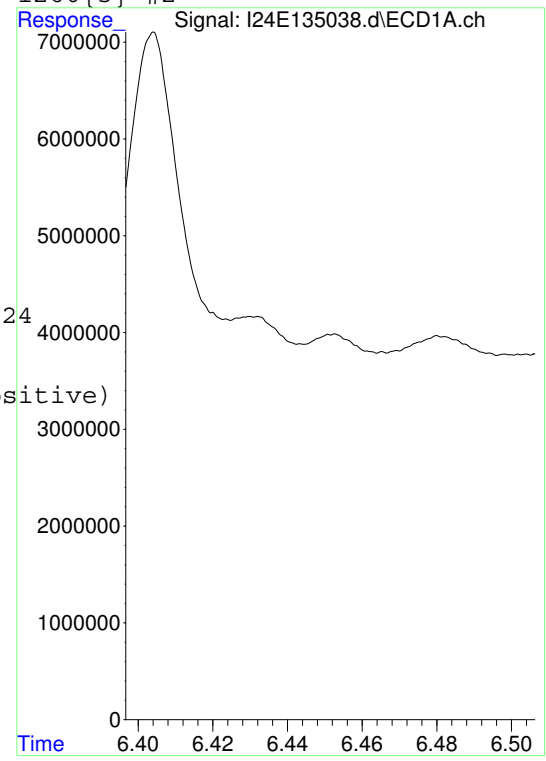
RT : 6.45
Area : 3.27603e+007
Amount: 4.54352

Manual Int. Results

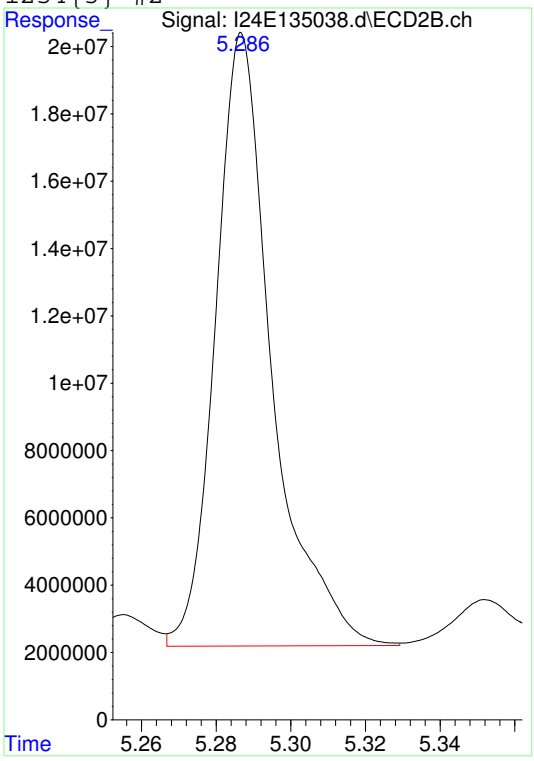
Wed May 15 08:41:18 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1260{5} #2



Original Integration
1254{3} #2



Original Int. Results

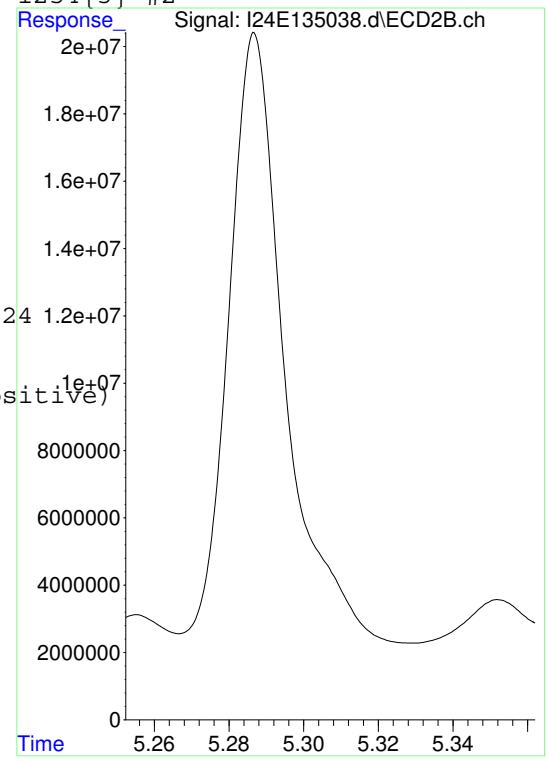
RT : 5.29
Area : 1.91347e+008
Amount: 78.237

Manual Int. Results

Wed May 15 08:41:28 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

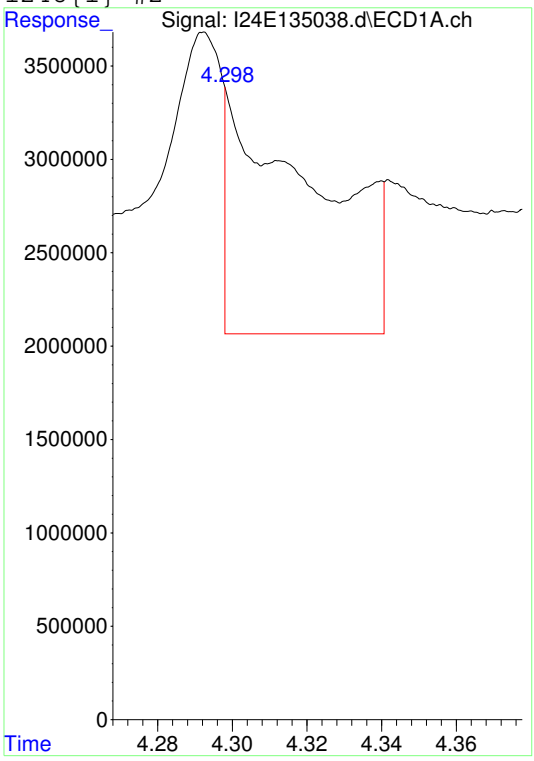
Manual Integration
1254{3} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135038.d
Acq On : 14 May 2024 8:21 pm
Operator : PJG
Sample : 24E1437-17@4X TBA
Misc :

Quant Time : Wed May 15 08:41:30 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1248{1} #2



Original Int. Results

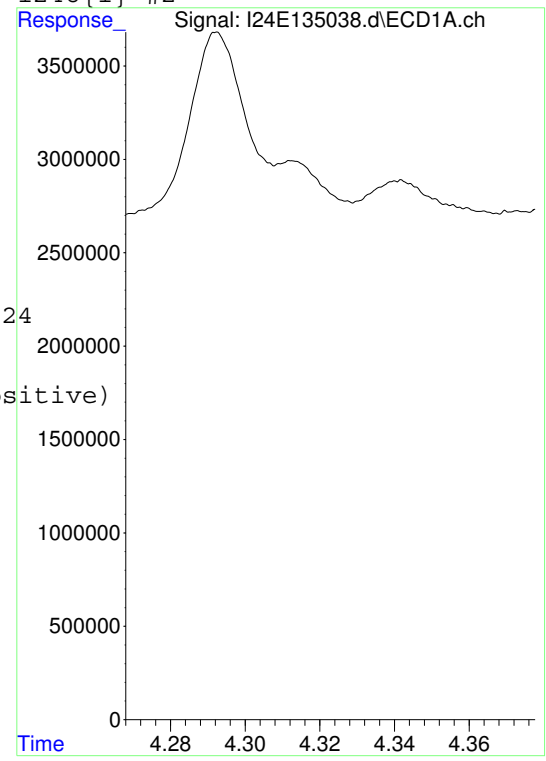
RT : 4.32
Area : 7.47271e+006
Amount: 4.72948

Manual Int. Results

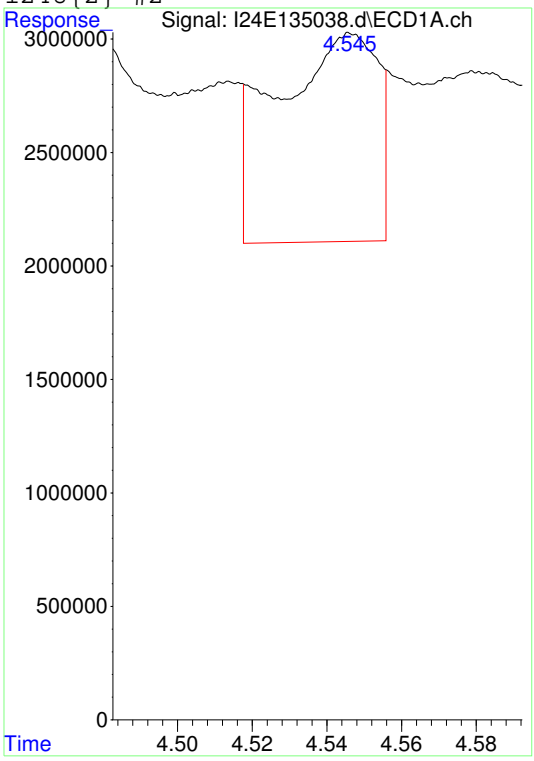
Wed May 15 08:41:18 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1248{1} #2



Original Integration
1248{2} #2



Original Int. Results

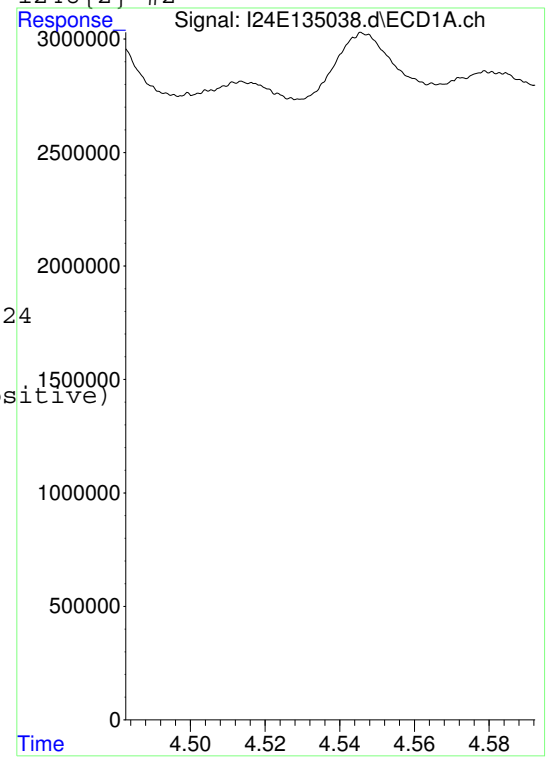
RT : 4.54
Area : 3.41326e+006
Amount: 1.67872

Manual Int. Results

Wed May 15 08:41:17 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

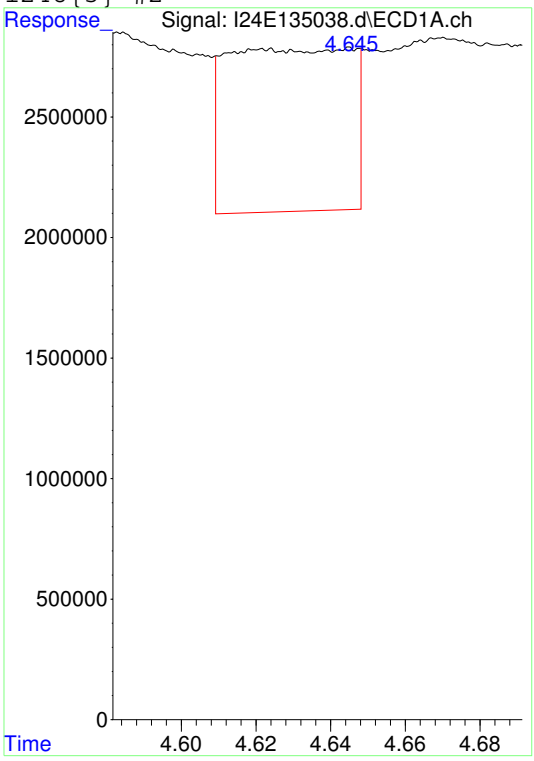
Manual Integration
1248{2} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135038.d
Acq On : 14 May 2024 8:21 pm
Operator : PJG
Sample : 24E1437-17@4X TBA
Misc :

Quant Time : Wed May 15 08:41:30 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1248{3} #2



Original Int. Results

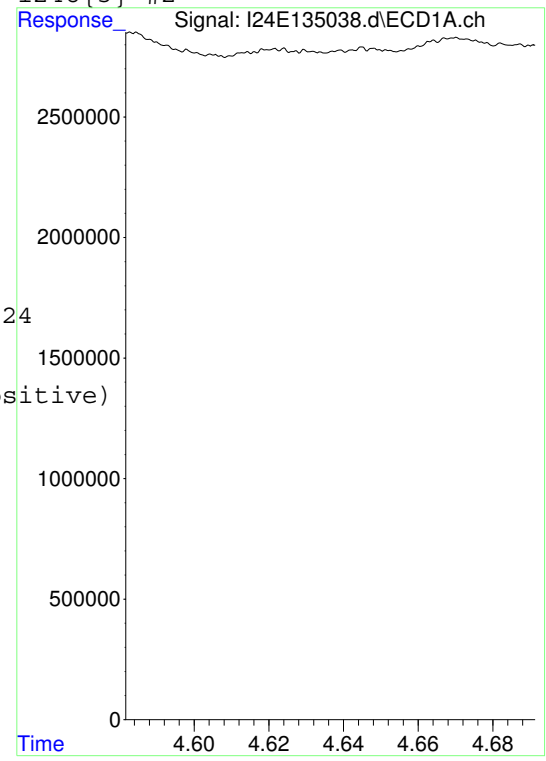
RT : 4.63
Area : 1.54006e+006
Amount: 0.669424

Manual Int. Results

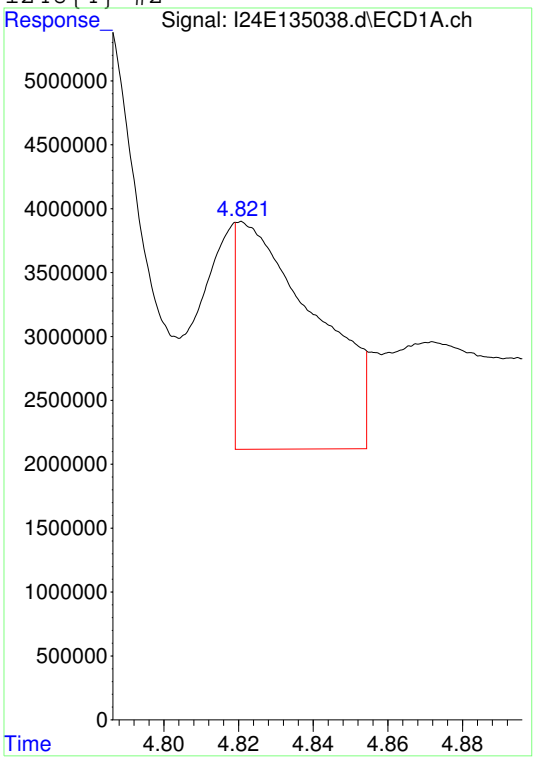
Wed May 15 08:41:17 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1248{3} #2



Original Integration
1248{4} #2



Original Int. Results

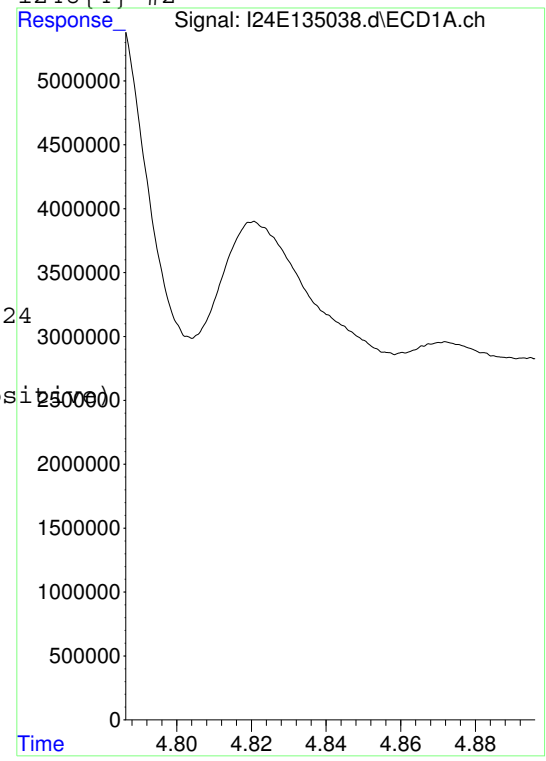
RT : 4.84
Area : 9.77082e+006
Amount: 4.07148

Manual Int. Results

Wed May 15 08:41:17 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

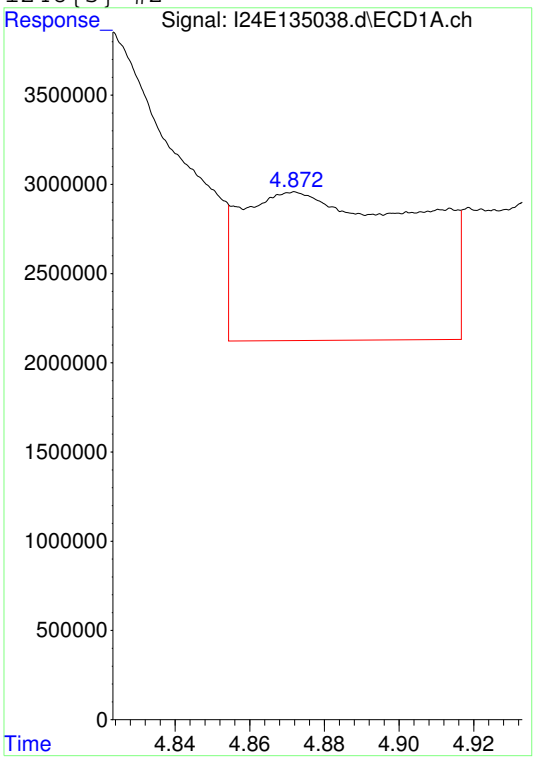
Manual Integration
1248{4} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135038.d
Acq On : 14 May 2024 8:21 pm
Operator : PJG
Sample : 24E1437-17@4X TBA
Misc :

Quant Time : Wed May 15 08:41:30 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1248{5} #2



Original Int. Results

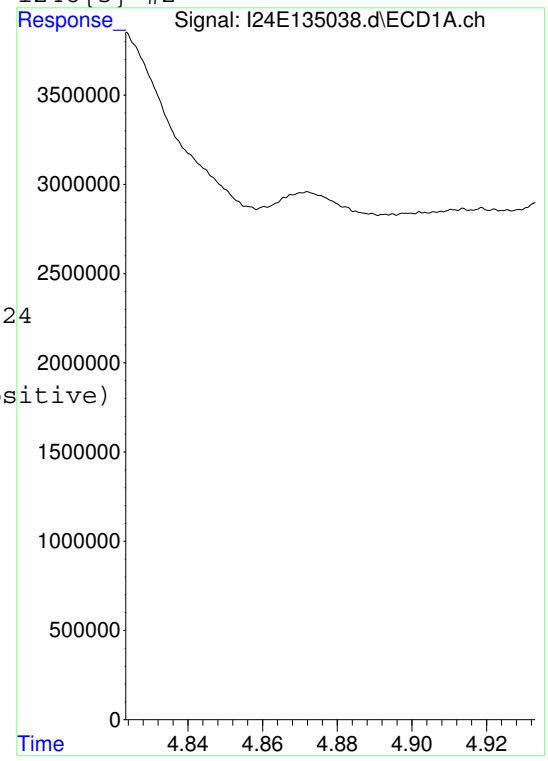
RT : 4.87
Area : 2.59218e+007
Amount: 9.28615

Manual Int. Results

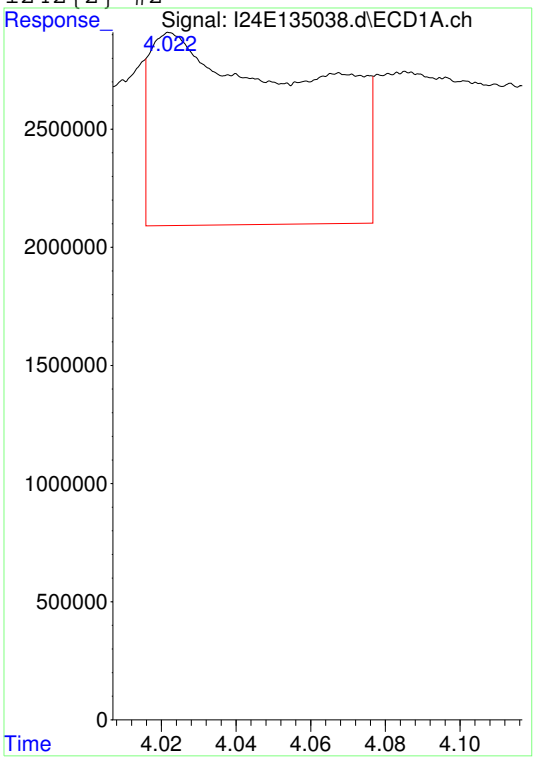
Wed May 15 08:41:17 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1248{5} #2



Original Integration
1242{2} #2



Original Int. Results

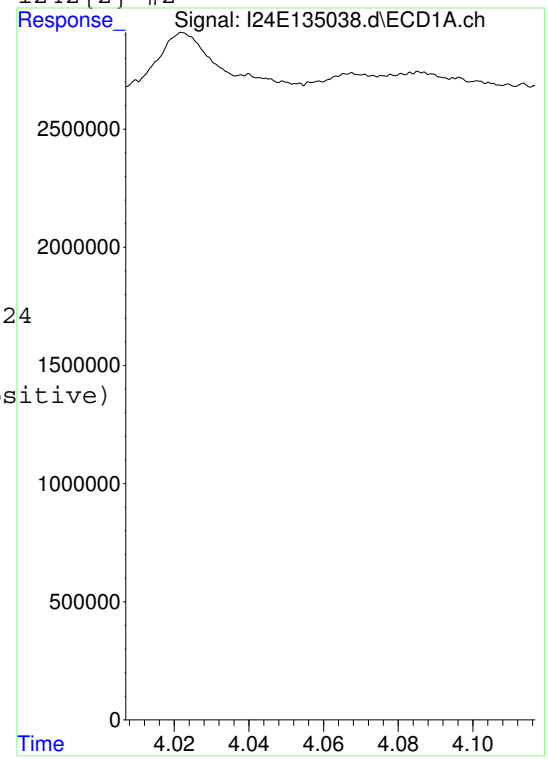
RT : 4.06
Area : 2.34501e+006
Amount: 1.03865

Manual Int. Results

Wed May 15 08:41:16 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

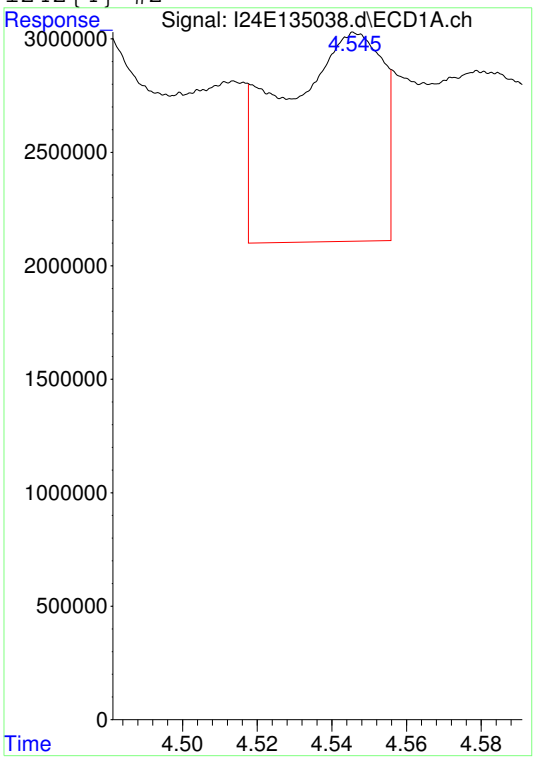
Manual Integration
1242{2} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135038.d
Acq On : 14 May 2024 8:21 pm
Operator : PJG
Sample : 24E1437-17@4X TBA
Misc :

Quant Time : Wed May 15 08:41:30 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1242{4} #2



Original Int. Results

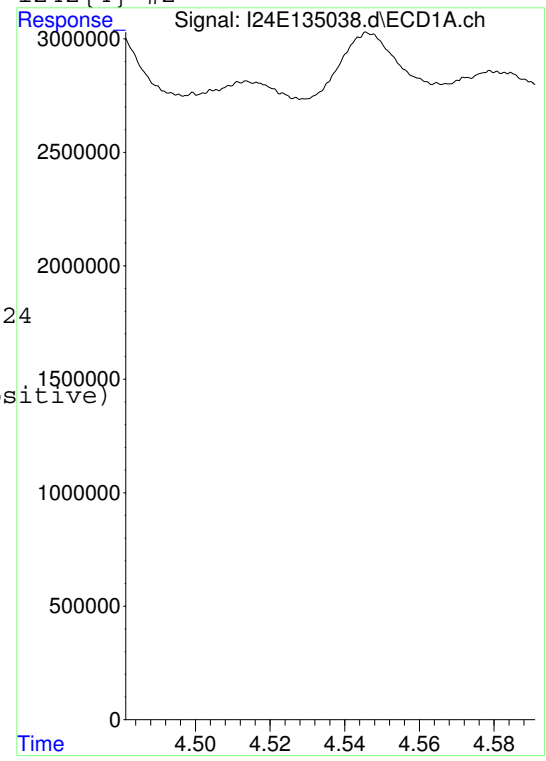
RT : 4.54
Area : 3.41326e+006
Amount: 2.72667

Manual Int. Results

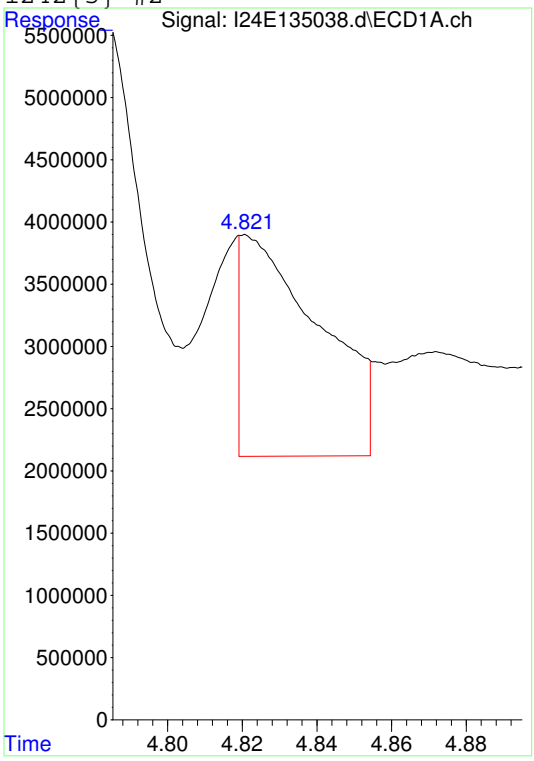
Wed May 15 08:41:16 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1242{4} #2



Original Integration
1242{5} #2



Original Int. Results

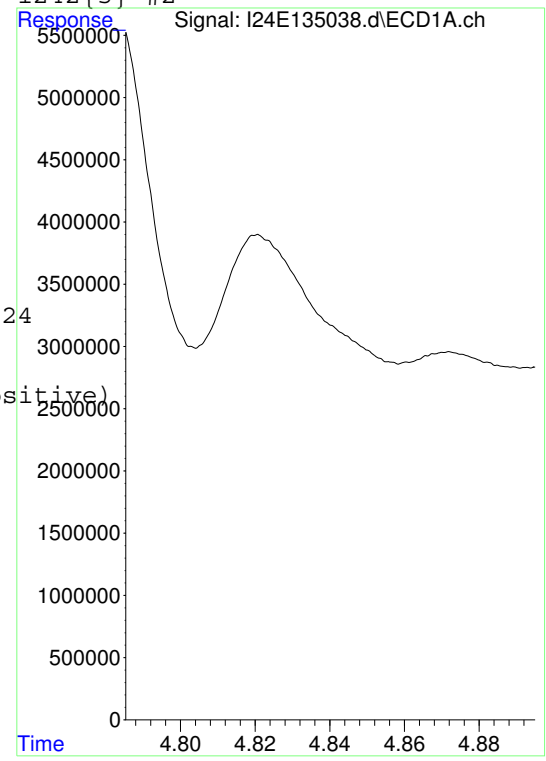
RT : 4.84
Area : 9.77082e+006
Amount: 7.87069

Manual Int. Results

Wed May 15 08:41:16 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

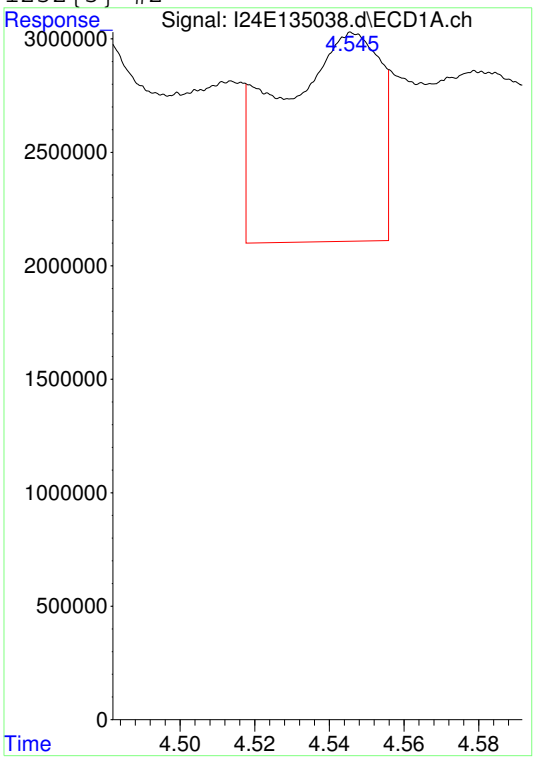
Manual Integration
1242{5} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135038.d
Acq On : 14 May 2024 8:21 pm
Operator : PJG
Sample : 24E1437-17@4X TBA
Misc :

Quant Time : Wed May 15 08:41:30 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1232{3} #2



Original Int. Results

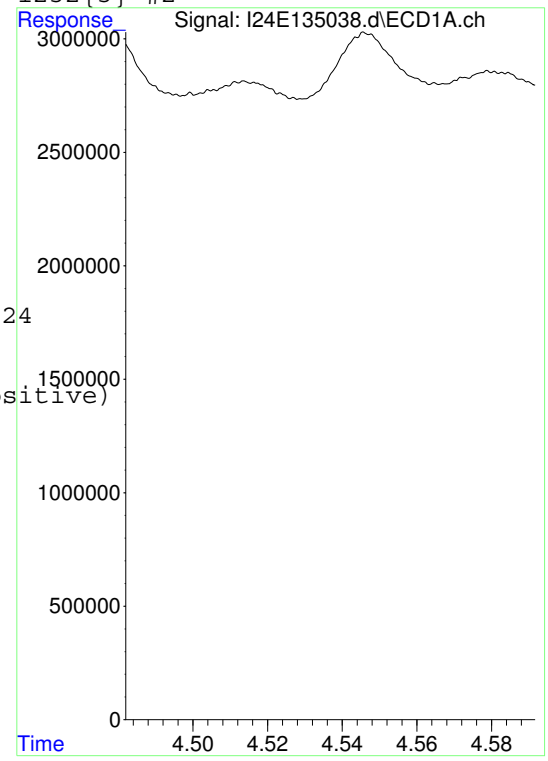
RT : 4.54
Area : 3.41326e+006
Amount: 4.81017

Manual Int. Results

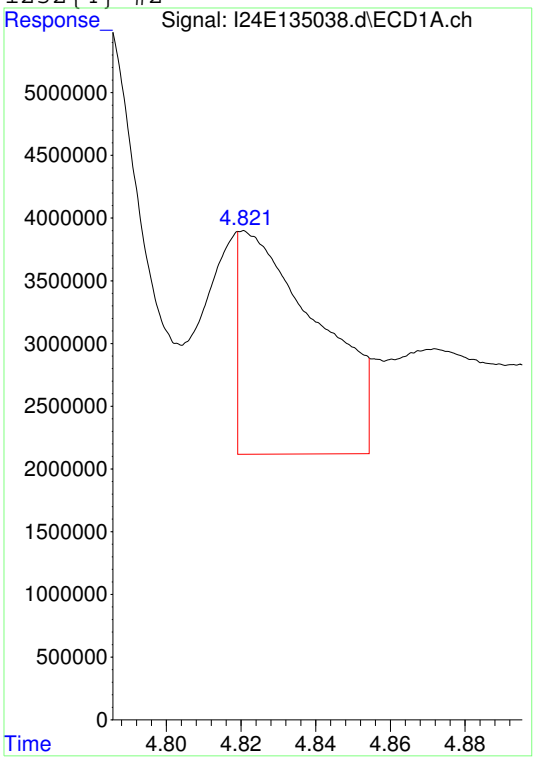
Wed May 15 08:41:15 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1232{3} #2



Original Integration
1232{4} #2



Original Int. Results

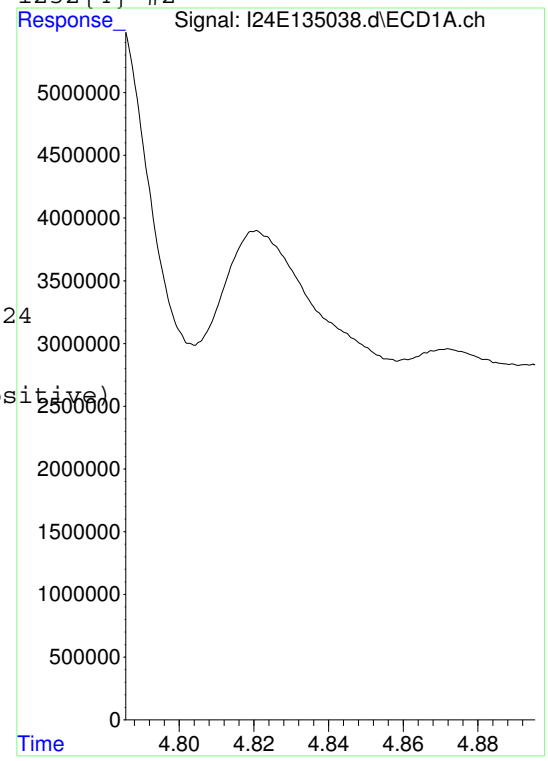
RT : 4.84
Area : 9.77082e+006
Amount: 13.3379

Manual Int. Results

Wed May 15 08:41:15 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

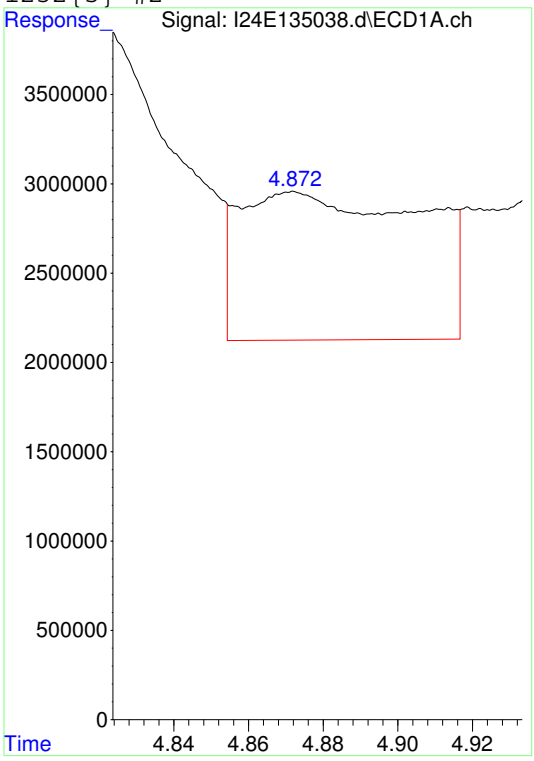
Manual Integration
1232{4} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135038.d
Acq On : 14 May 2024 8:21 pm
Operator : PJG
Sample : 24E1437-17@4X TBA
Misc :

Quant Time : Wed May 15 08:41:30 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1232{5} #2



Original Int. Results

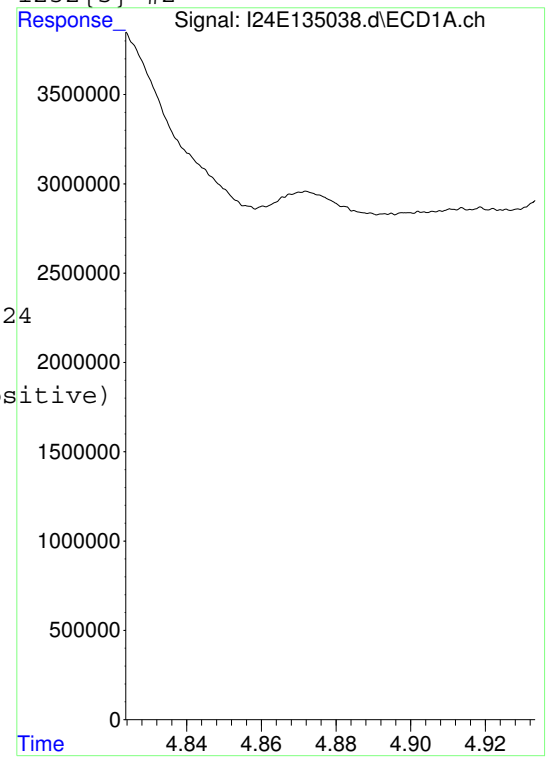
RT : 4.87
Area : 2.59218e+007
Amount: 29.5302

Manual Int. Results

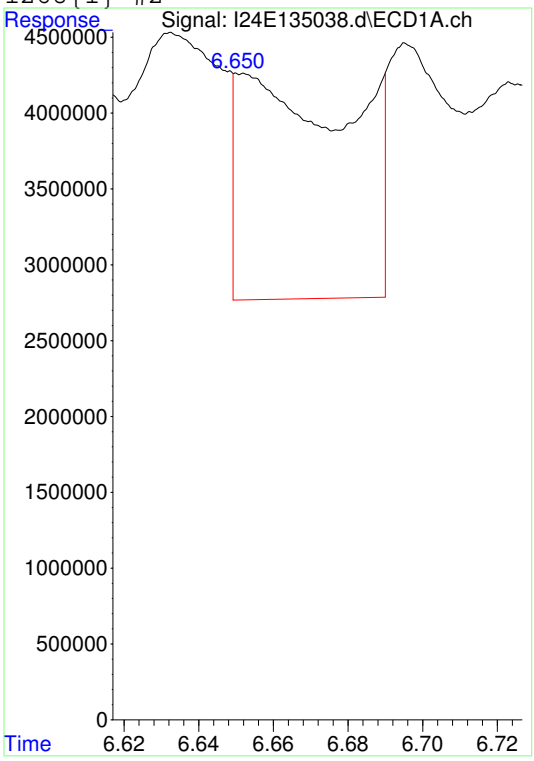
Wed May 15 08:41:15 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1232{5} #2



Original Integration
1268{1} #2



Original Int. Results

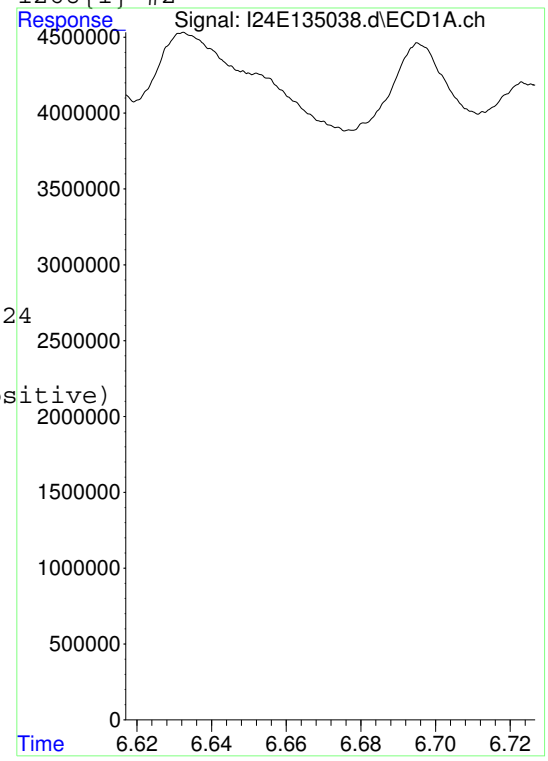
RT : 6.67
Area : 2.38272e+007
Amount: 2.89853

Manual Int. Results

Wed May 15 08:41:15 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

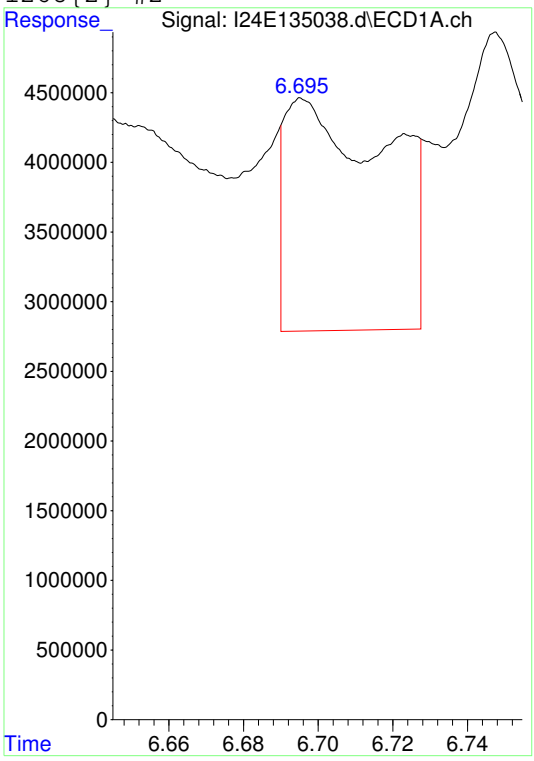
Manual Integration
1268{1} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135038.d
Acq On : 14 May 2024 8:21 pm
Operator : PJG
Sample : 24E1437-17@4X TBA
Misc :

Quant Time : Wed May 15 08:41:30 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1268{2} #2



Original Int. Results

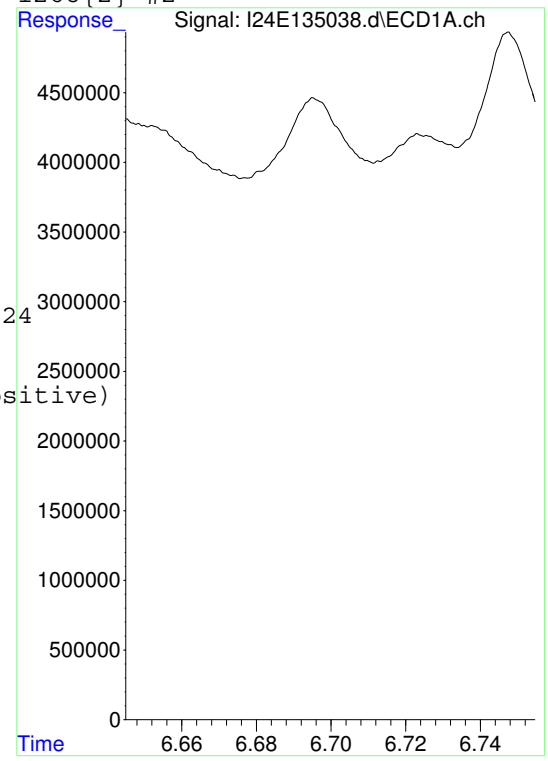
RT : 6.71
Area : 7.59088e+006
Amount: 0.945197

Manual Int. Results

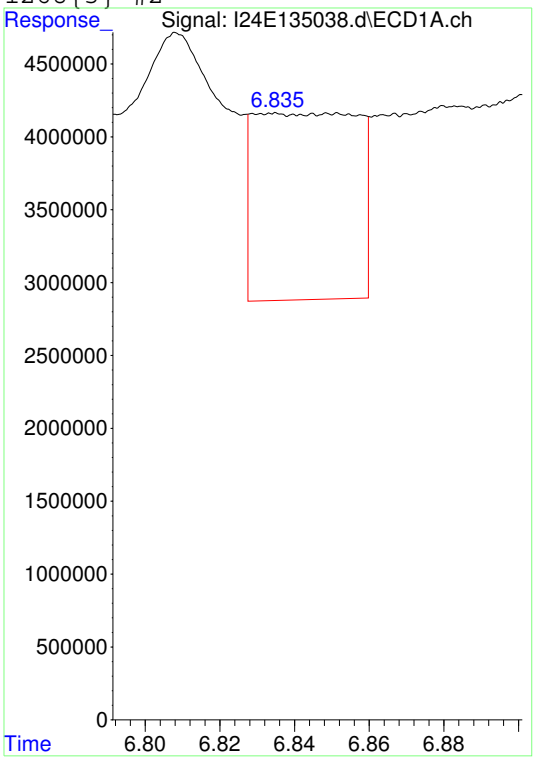
Wed May 15 08:41:14 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1268{2} #2



Original Integration
1268{3} #2



Original Int. Results

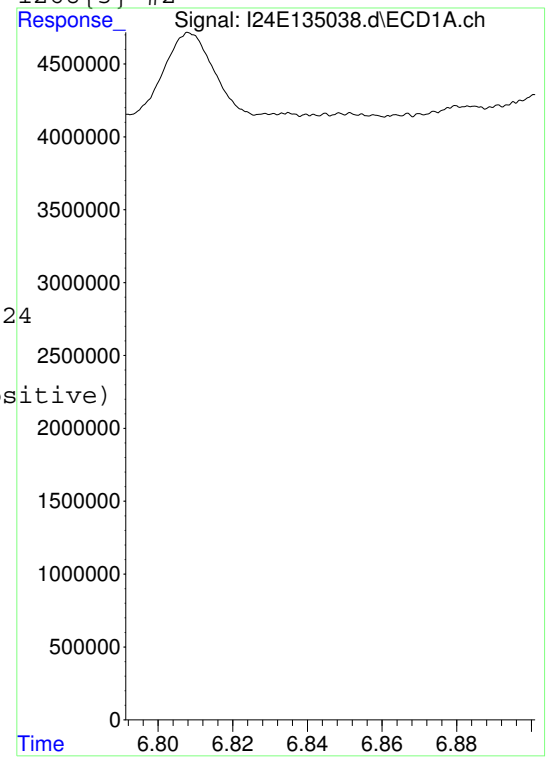
RT : 6.84
Area : 6.95698e+006
Amount: 0.934133

Manual Int. Results

Wed May 15 08:41:14 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

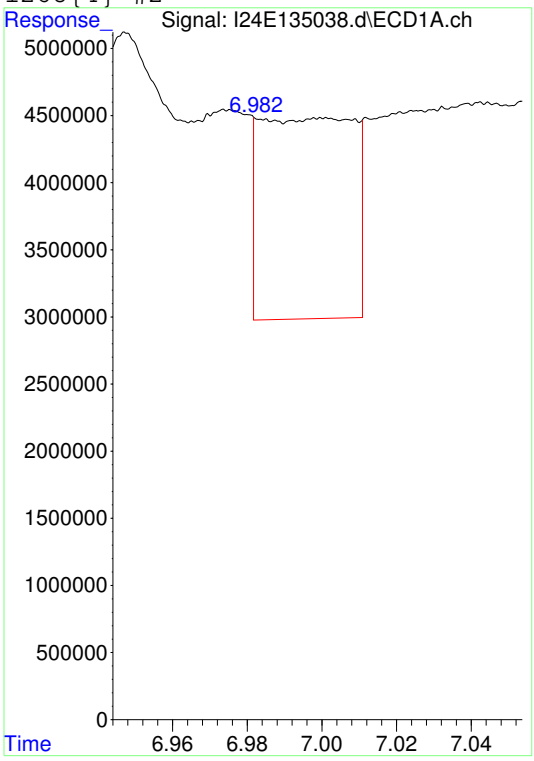
Manual Integration
1268{3} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135038.d
Acq On : 14 May 2024 8:21 pm
Operator : PJG
Sample : 24E1437-17@4X TBA
Misc :

Quant Time : Wed May 15 08:41:30 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1268{4} #2



Original Int. Results

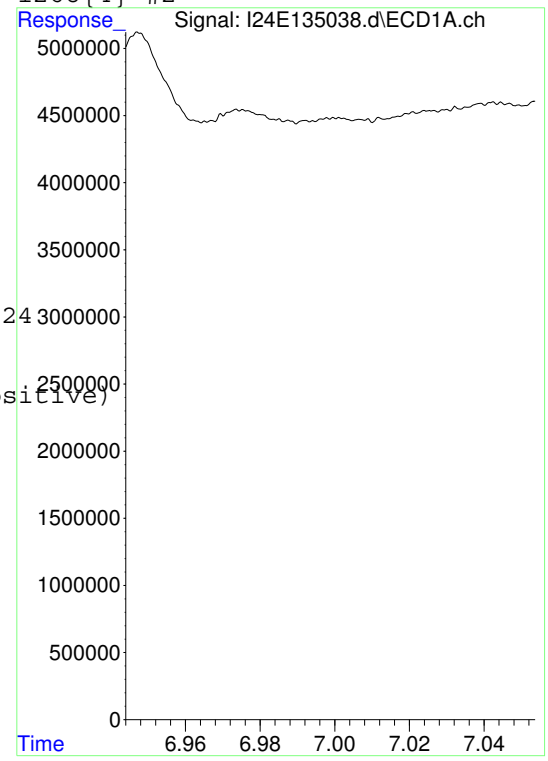
RT : 7.00
Area : 7.48444e+006
Amount: 3.50999

Manual Int. Results

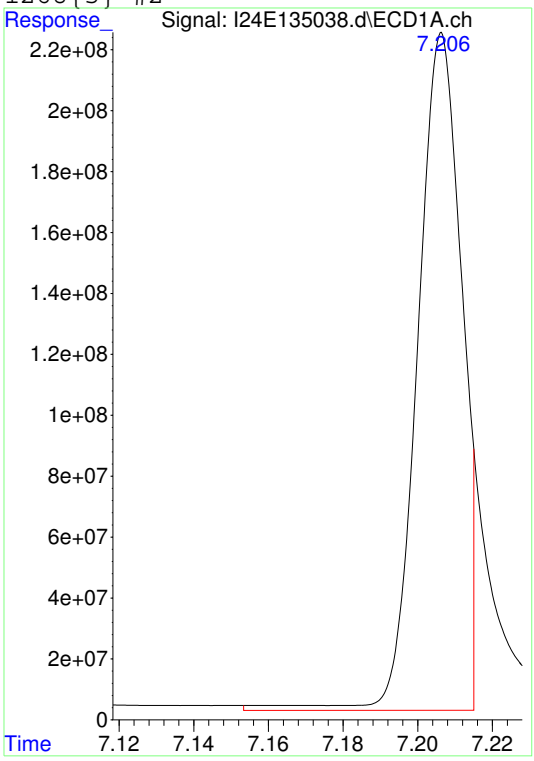
Wed May 15 08:41:14 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1268{4} #2



Original Integration
1268{5} #2



Original Int. Results

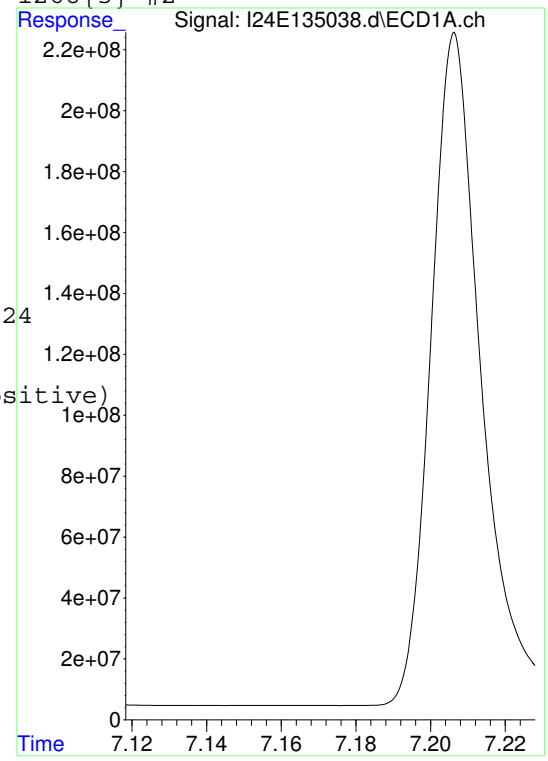
RT : 7.17
Area : 2.27123e+007
Amount: 1.11981

Manual Int. Results

Wed May 15 08:41:14 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

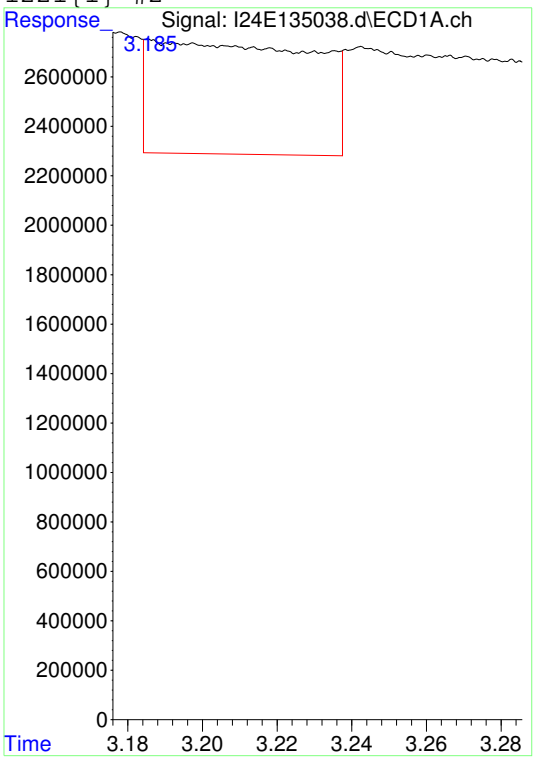
Manual Integration
1268{5} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135038.d
Acq On : 14 May 2024 8:21 pm
Operator : PJG
Sample : 24E1437-17@4X TBA
Misc :

Quant Time : Wed May 15 08:41:30 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1221{1} #2



Original Int. Results

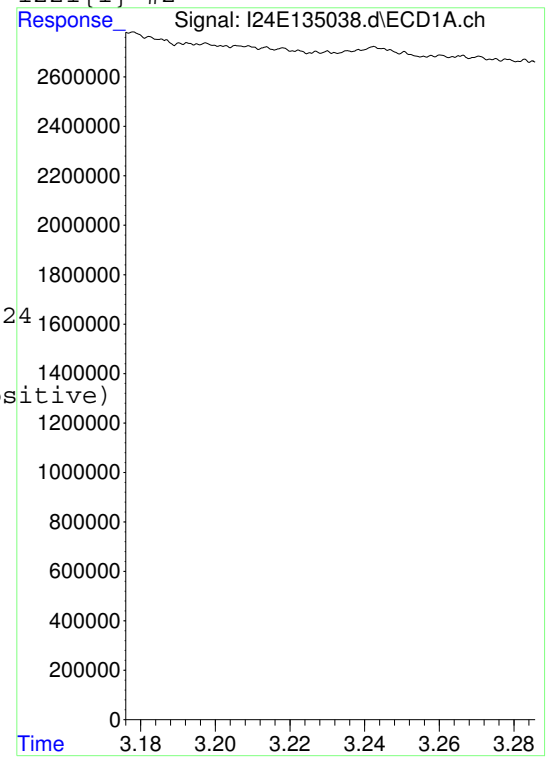
RT : 3.21
Area : 1.28877e+006
Amount: 1.98553

Manual Int. Results

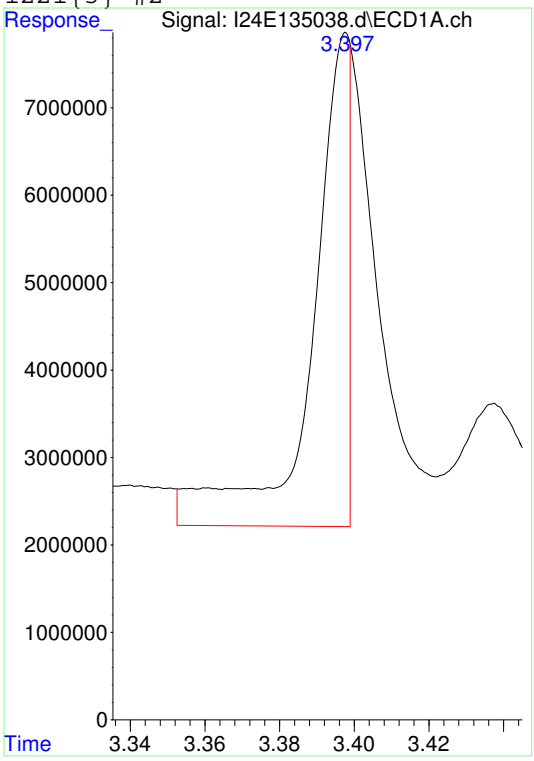
Wed May 15 08:41:14 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1221{1} #2



Original Integration
1221{3} #2



Original Int. Results

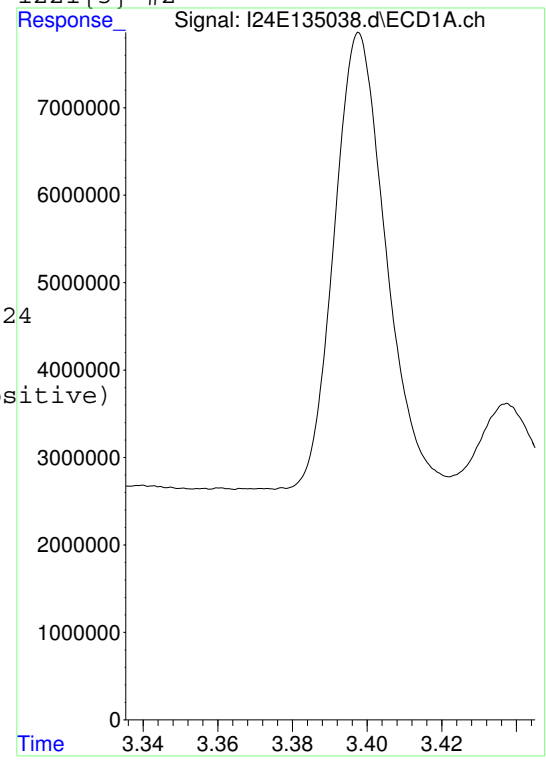
RT : 3.38
Area : 5.08467e+006
Amount: 3.38677

Manual Int. Results

Wed May 15 08:41:13 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

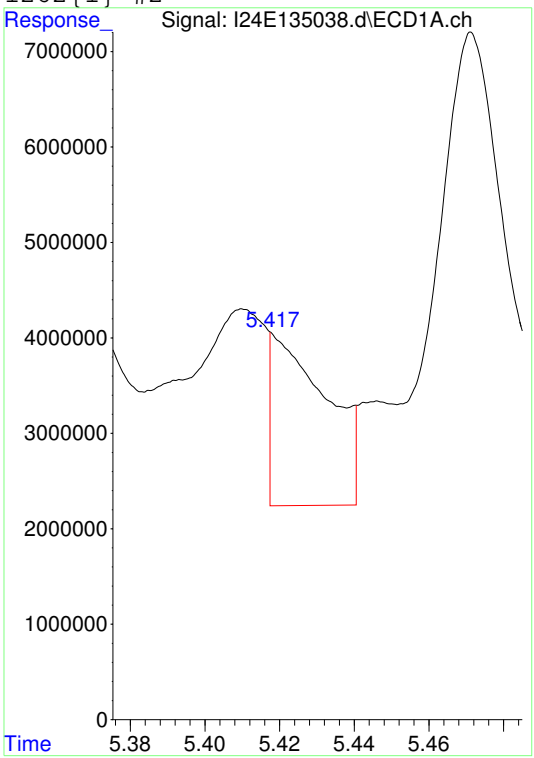
Manual Integration
1221{3} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135038.d
Acq On : 14 May 2024 8:21 pm
Operator : PJG
Sample : 24E1437-17@4X TBA
Misc :

Quant Time : Wed May 15 08:41:30 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1262{1} #2



Original Int. Results

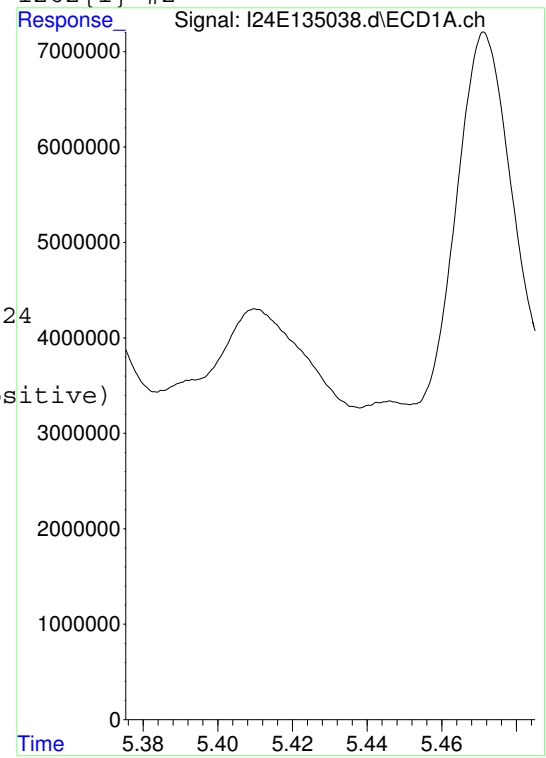
RT : 5.43
Area : 1.07302e+007
Amount: 7.5705

Manual Int. Results

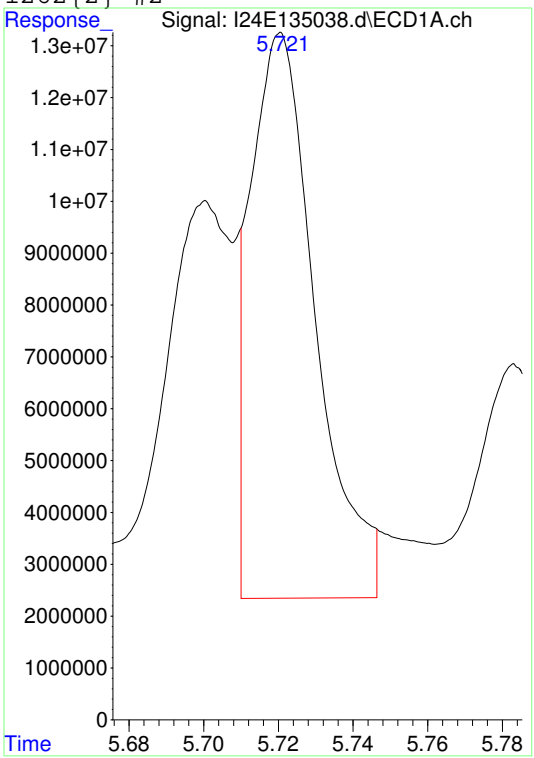
Wed May 15 08:41:13 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1262{1} #2



Original Integration
1262{2} #2



Original Int. Results

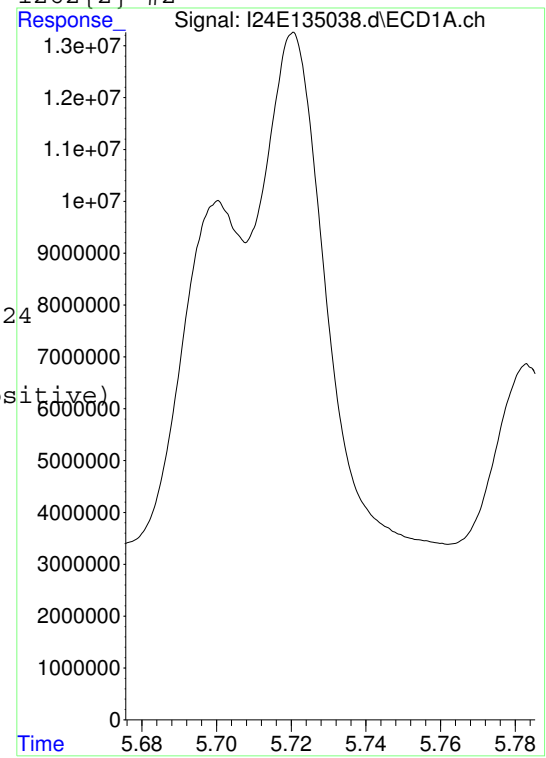
RT : 5.73
Area : 5.54182e+007
Amount: 19.0966

Manual Int. Results

Wed May 15 08:41:13 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

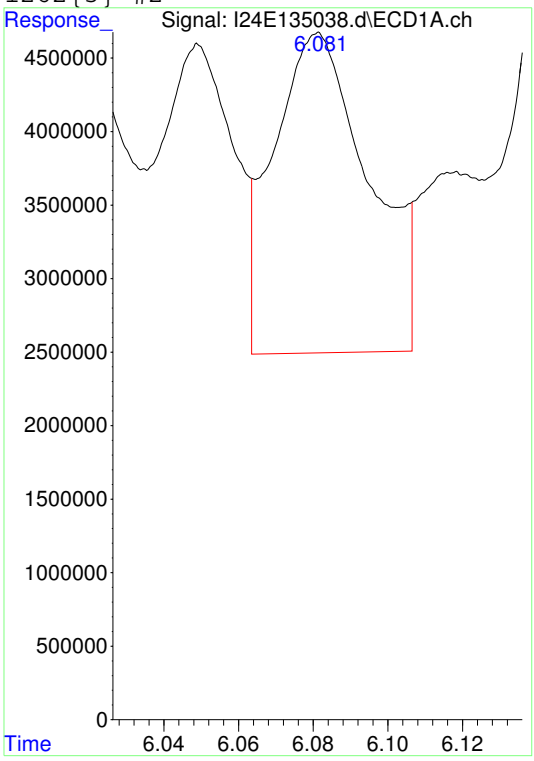
Manual Integration
1262{2} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135038.d
Acq On : 14 May 2024 8:21 pm
Operator : PJG
Sample : 24E1437-17@4X TBA
Misc :

Quant Time : Wed May 15 08:41:30 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1262{3} #2



Original Int. Results

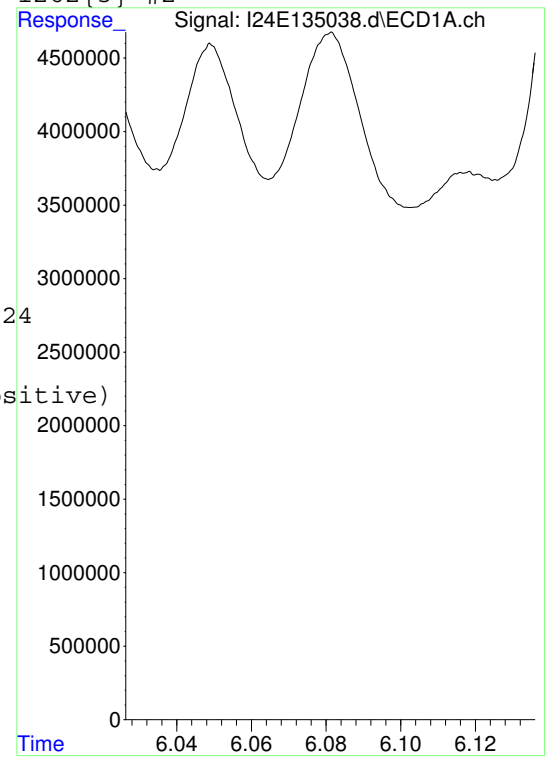
RT : 6.08
Area : 2.19109e+007
Amount: 6.19747

Manual Int. Results

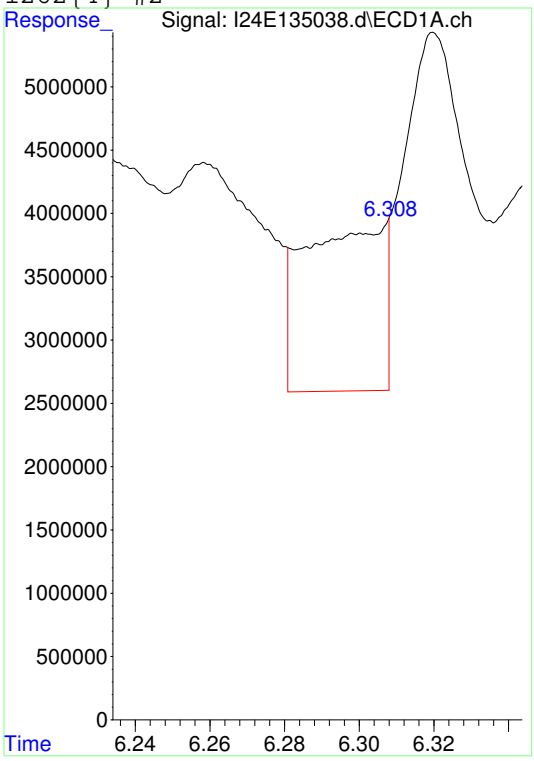
Wed May 15 08:41:13 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1262{3} #2



Original Integration
1262{4} #2



Original Int. Results

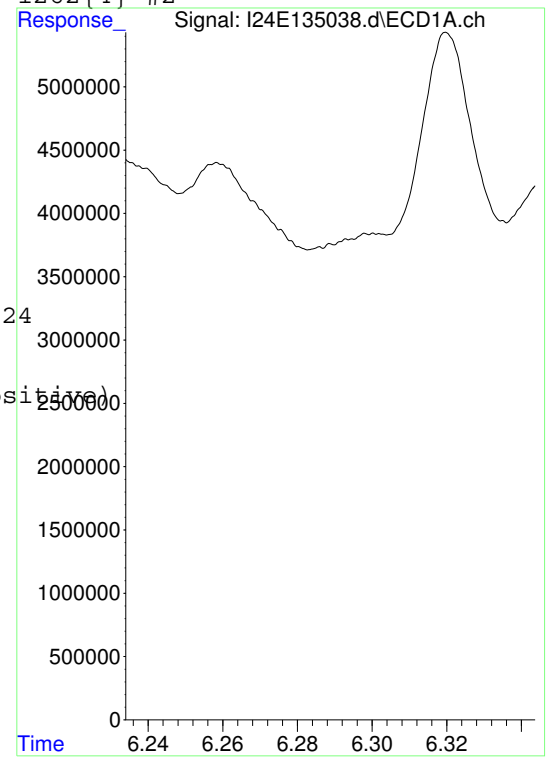
RT : 6.29
Area : 1.16927e+007
Amount: 3.44434

Manual Int. Results

Wed May 15 08:41:12 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

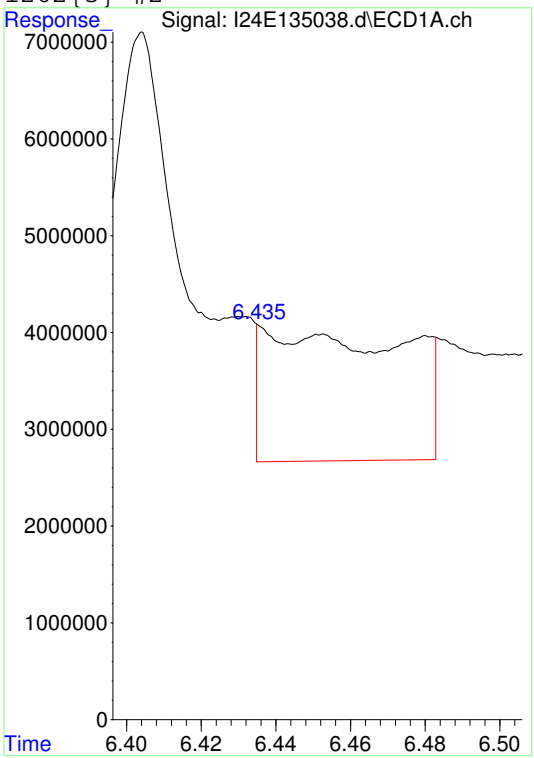
Manual Integration
1262{4} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135038.d
Acq On : 14 May 2024 8:21 pm
Operator : PJG
Sample : 24E1437-17@4X TBA
Misc :

Quant Time : Wed May 15 08:41:30 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1262{5} #2



Original Int. Results

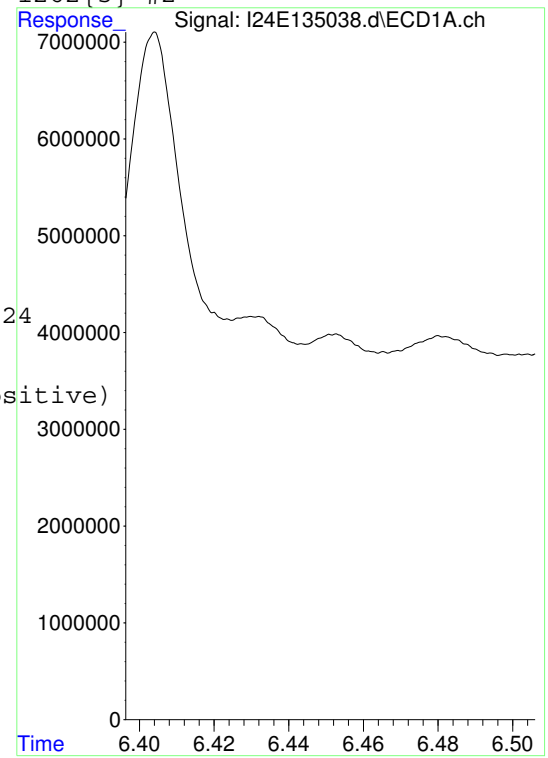
RT : 6.45
Area : 3.27603e+007
Amount: 4.55335

Manual Int. Results

Wed May 15 08:41:12 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1262{5} #2



1 - FORM I
ANALYSIS DATA SHEET

DUP

Laboratory:	Pace New England			SDG:	24E1437
Client:	NYS Division of Environmental Rer			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-19	File ID:	I24E135039.d
Sampled:	05/08/24 15:45	Prepared:	05/10/24 15:04	Analyzed:	05/14/24 20:38
Solids:	69.57	Preparation:	SW-846 3546	Dilution:	4
Batch:	B374045	Sequence:	S104539	Calibration:	2400478
Instrument:	ECD 9				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.028	0.11	
11104-28-2	Aroclor-1221		0.052	0.11	
11141-16-5	Aroclor-1232		0.028	0.11	
53469-21-9	Aroclor-1242		0.031	0.11	
12672-29-6	Aroclor-1248		0.027	0.11	
11097-69-1	Aroclor-1254	0.11	0.034	0.11	J
11096-82-5	Aroclor-1260		0.023	0.11	
37324-23-5	Aroclor-1262		0.029	0.11	
11100-14-4	Aroclor-1268		0.030	0.11	

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : I24E135039.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 8:38 pm
Operator : PJG
Sample : 24E1437-19@4X TBA Inst : ECD 9
Misc :
ALS Vial : 39 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 15 08:43:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	3.071	2.995	2540.3E6	2315.6E6	38.679	40.024
2) S	Decachlor...	7.207	7.312	2064.4E6	1843.1E6	37.191	37.007
	Target Compounds						
3) L1	1016{1}	0.000	0.000	0	0	N.D. d	N.D. d
4) L1	1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1	1016{3}	0.000	0.000	0	0	N.D. d	N.D. d
6) L1	1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1	1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9) L7	1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7	1260{3}	0.000	0.000	0	0	N.D. d	N.D. d
11) L7	1260{4}	0.000	0.000	0	0	N.D. d	N.D. d
12) L7	1260{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13) L6	1254{1}	4.784	4.872	42783839	35091295	14.284	13.308
14) L6	1254{2}	0.000	5.024	0	47698651	N.D. d	15.712 #
15) L6	1254{3}	5.323	5.303	84844296	26092933	15.816	10.669 #
16) L6	1254{4}	5.552	5.400	78379220	64435717	18.875	14.885
17) L6	1254{5}	5.929	6.014	169.0E6	130.3E6	30.537	27.210
Sum	1254			375.0E6	303.6E6	79.513	81.784
Average	1254					19.878	16.357
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\051424\
Data File : I24E135039.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 8:38 pm
Operator : PJG
Sample : 24E1437-19@4X TBA Inst : ECD 9
Misc :
ALS Vial : 39 Sample Multiplier: 1

3215

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 15 08:43:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32) L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232			0	0	N.D.	N.D.
Average 1232					0.000	0.000
33) L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34) L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35) L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36) L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37) L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268			0	0	N.D.	N.D.
Average 1268					0.000	0.000
38) L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39) L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40) L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221			0	0	N.D.	N.D.
Average 1221					0.000	0.000
41) L8 1262{1}	0.000	0.000	0	0	N.D. d	N.D. d
42) L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43) L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44) L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45) L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262			0	0	N.D.	N.D.
Average 1262					0.000	0.000

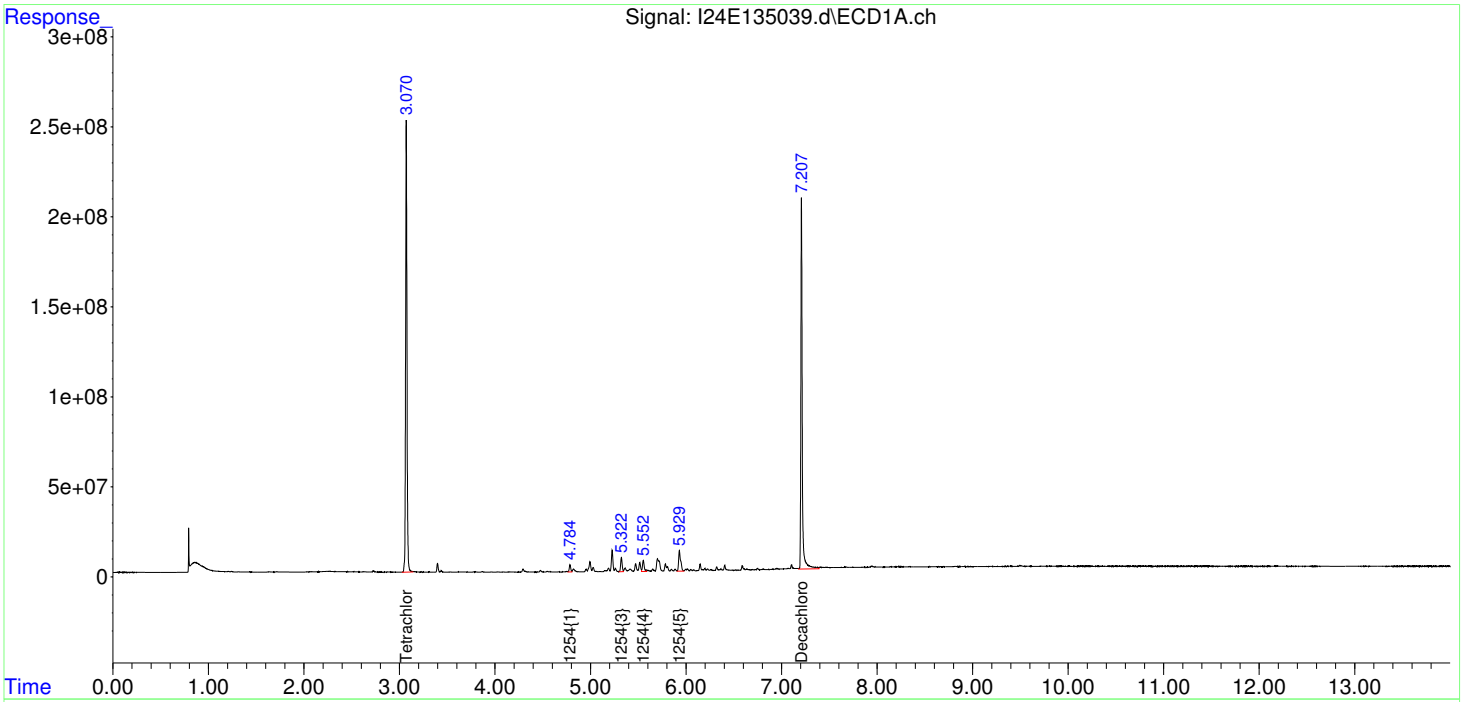
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

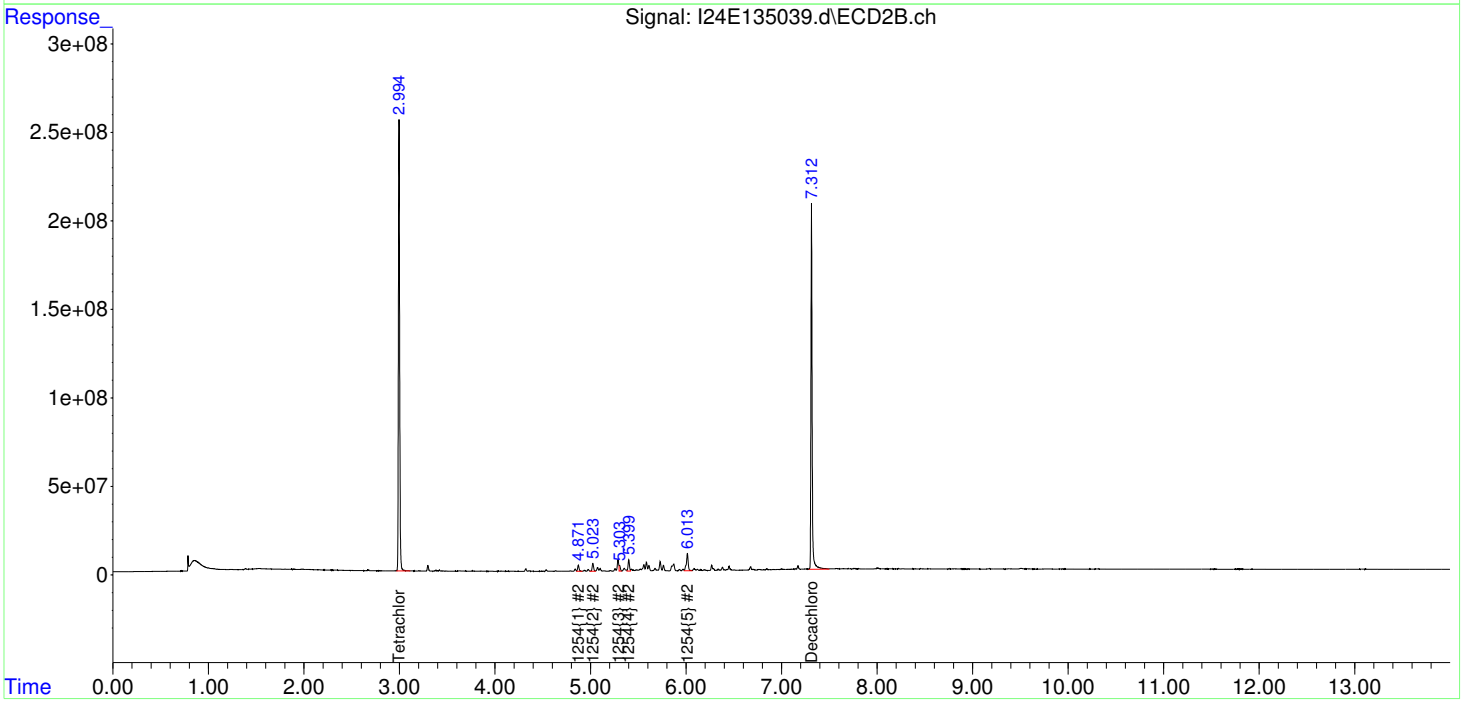
Data Path : C:\msdchem\1\data\051424\
Data File : I24E135039.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 8:38 pm
Operator : PJG
Sample : 24E1437-19@4X TBA Inst : ECD 9
Misc :
ALS Vial : 39 Sample Multiplier: 1

3216

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 15 08:43:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

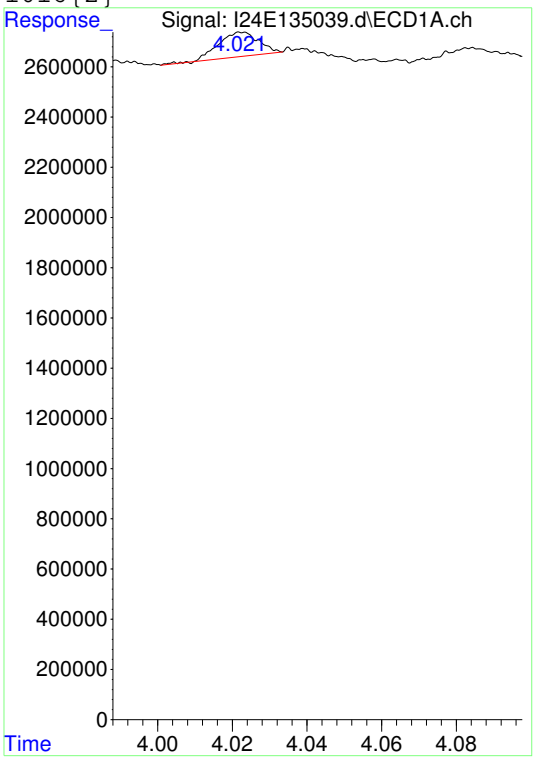




Data Path : C:\msdchem\1\data\051424\
Data File : I24E135039.d
Acq On : 14 May 2024 8:38 pm
Operator : PJG
Sample : 24E1437-19@4X TBA
Misc :

Quant Time : Wed May 15 08:43:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1016{2}



Original Int. Results

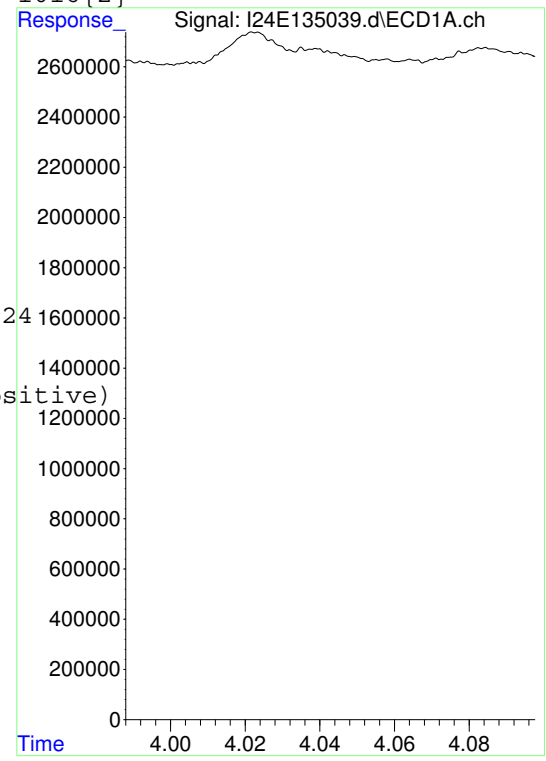
RT : 4.02
Area : 708964
Amount: 0.173772

Manual Int. Results

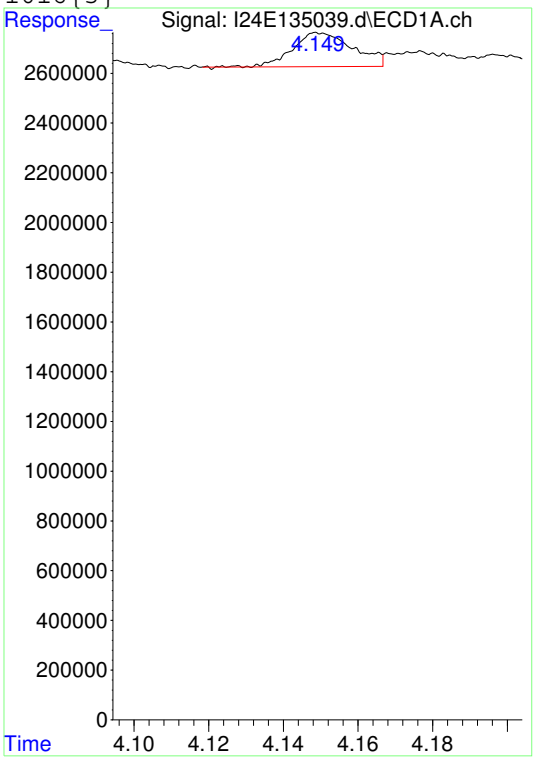
Wed May 15 08:42:54 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1016{2}



Original Integration
1016{3}



Original Int. Results

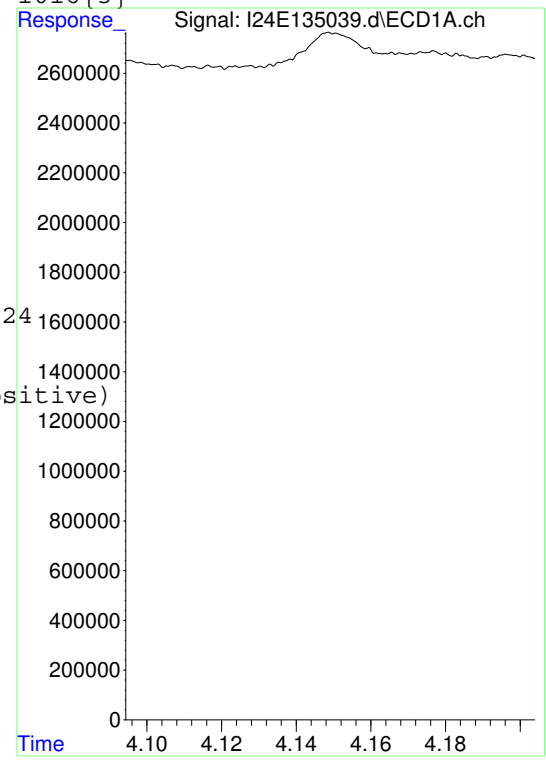
RT : 4.15
Area : 1.52438e+006
Amount: 0.516361

Manual Int. Results

Wed May 15 08:42:54 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

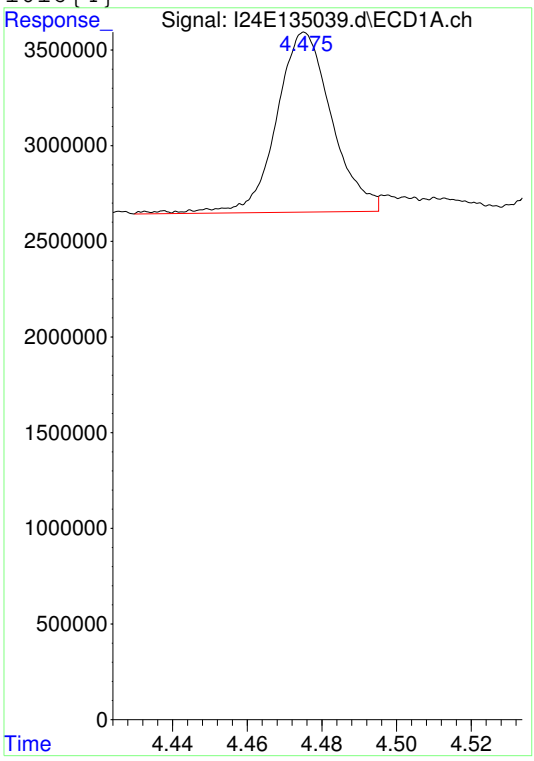
Manual Integration
1016{3}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135039.d
Acq On : 14 May 2024 8:38 pm
Operator : PJG
Sample : 24E1437-19@4X TBA
Misc :

Quant Time : Wed May 15 08:43:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1016{4}



Original Int. Results

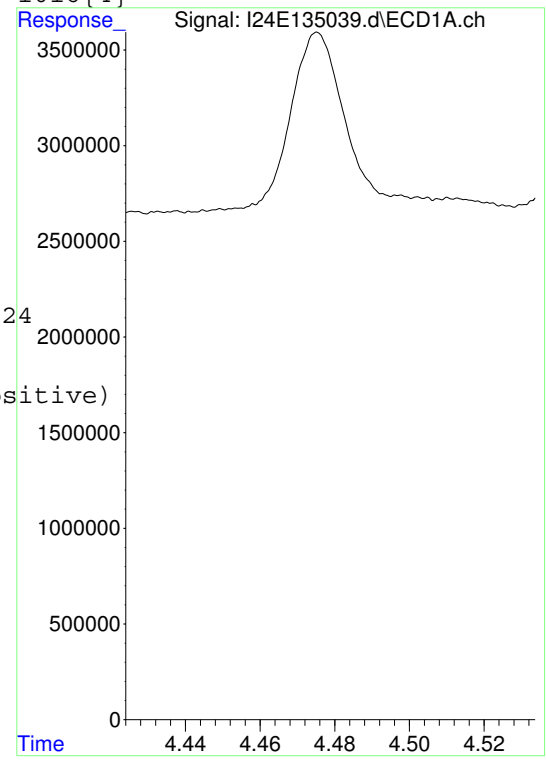
RT : 4.48
Area : 9.63796e+006
Amount: 4.47434

Manual Int. Results

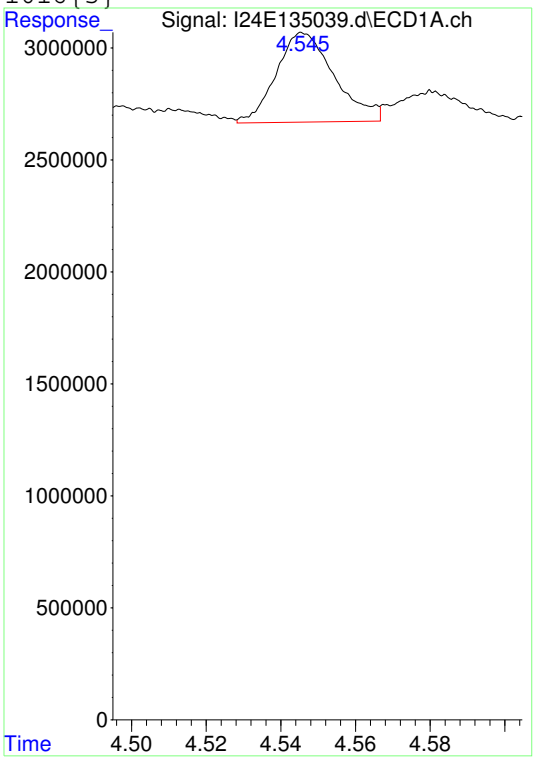
Wed May 15 08:42:53 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1016{4}



Original Integration
1016{5}



Original Int. Results

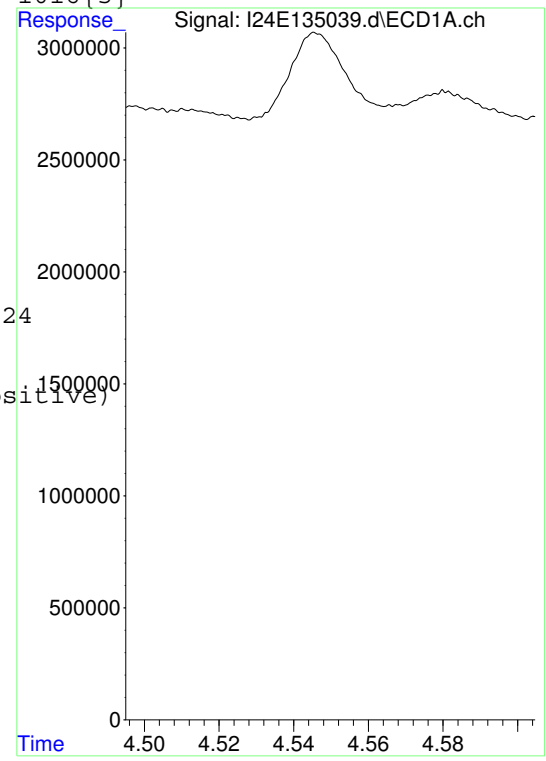
RT : 4.55
Area : 4.30293e+006
Amount: 2.98712

Manual Int. Results

Wed May 15 08:42:53 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

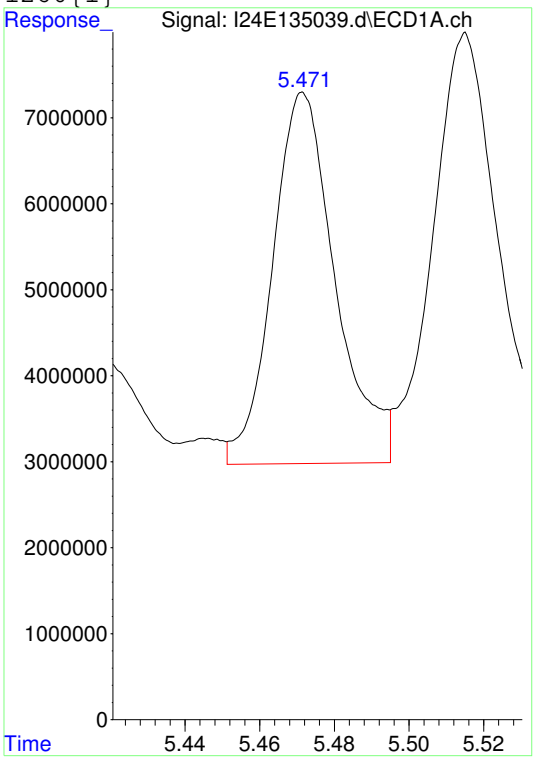
Manual Integration
1016{5}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135039.d
Acq On : 14 May 2024 8:38 pm
Operator : PJG
Sample : 24E1437-19@4X TBA
Misc :

Quant Time : Wed May 15 08:43:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1260{1}



Original Int. Results

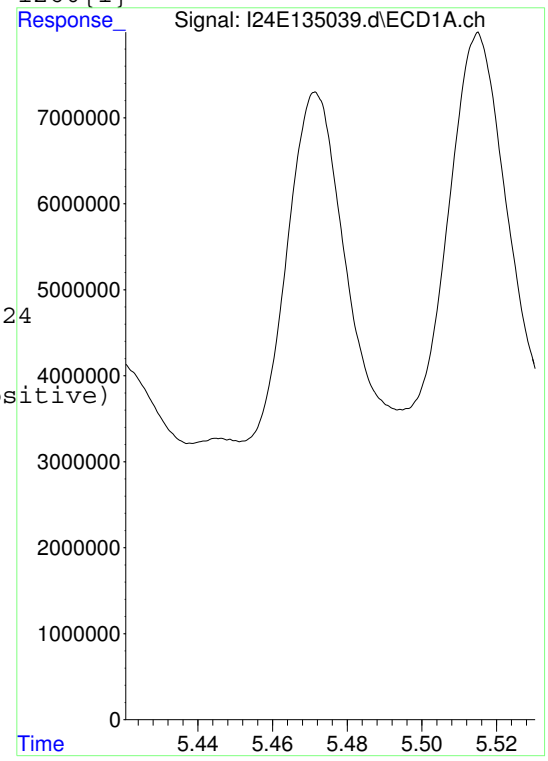
RT : 5.47
Area : 5.02557e+007
Amount: 11.9897

Manual Int. Results

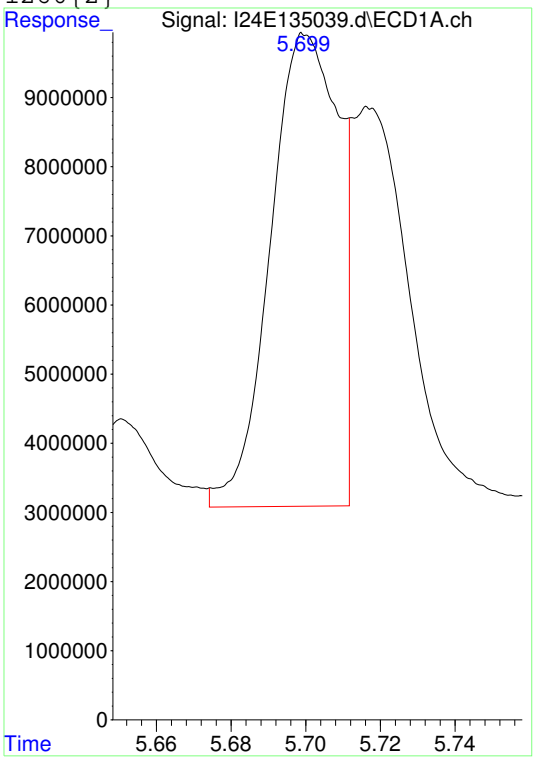
Wed May 15 08:42:53 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1260{1}



Original Integration
1260{2}



Original Int. Results

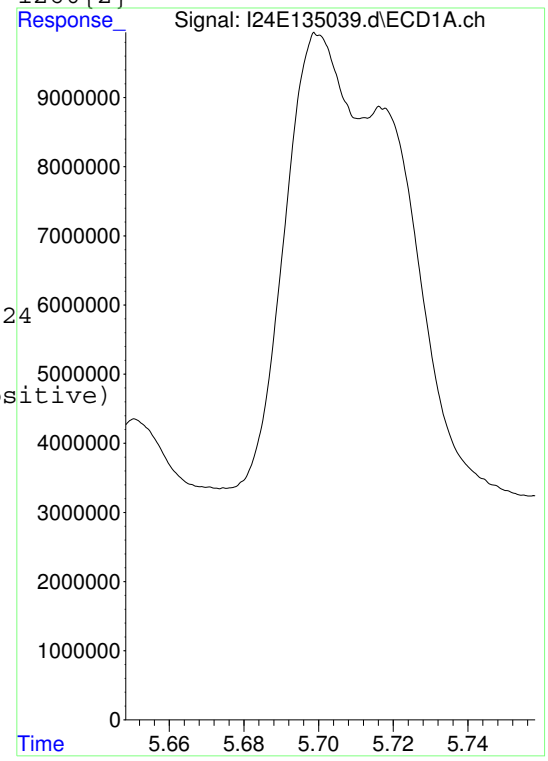
RT : 5.70
Area : 8.61689e+007
Amount: 13.8663

Manual Int. Results

Wed May 15 08:42:53 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

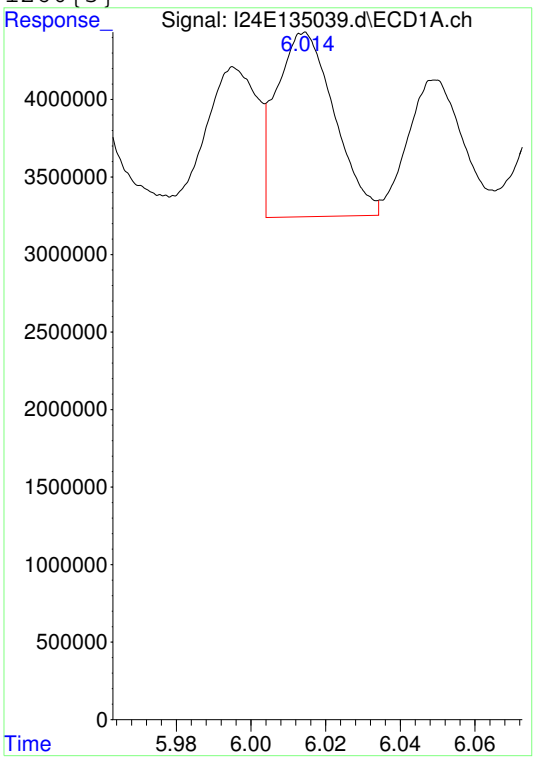
Manual Integration
1260{2}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135039.d
Acq On : 14 May 2024 8:38 pm
Operator : PJG
Sample : 24E1437-19@4X TBA
Misc :

Quant Time : Wed May 15 08:43:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1260{3}



Original Int. Results

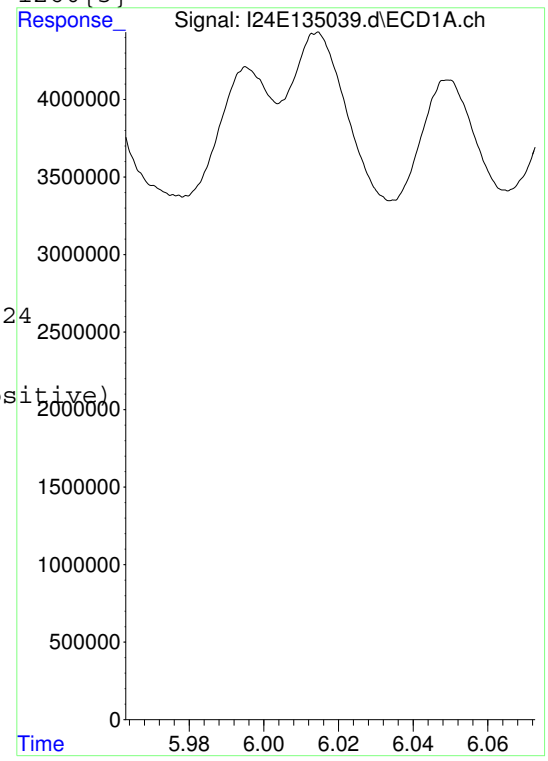
RT : 6.01
Area : 1.28813e+007
Amount: 3.22947

Manual Int. Results

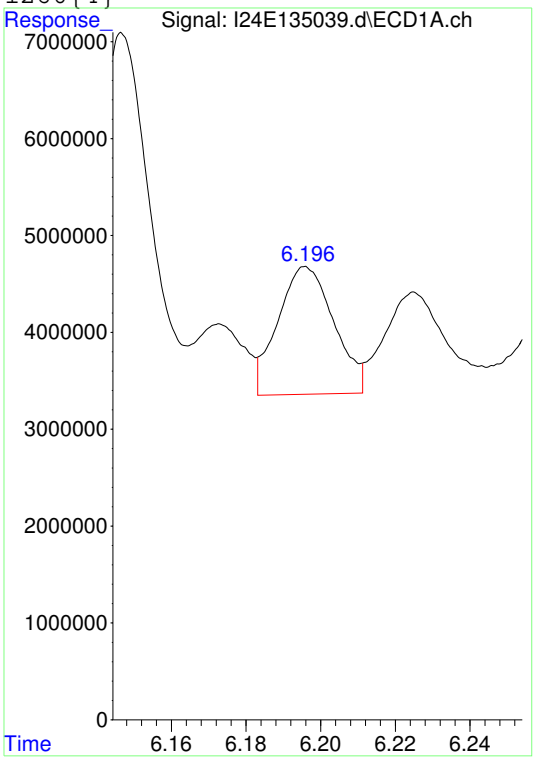
Wed May 15 08:42:52 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1260{3}



Original Integration
1260{4}



Original Int. Results

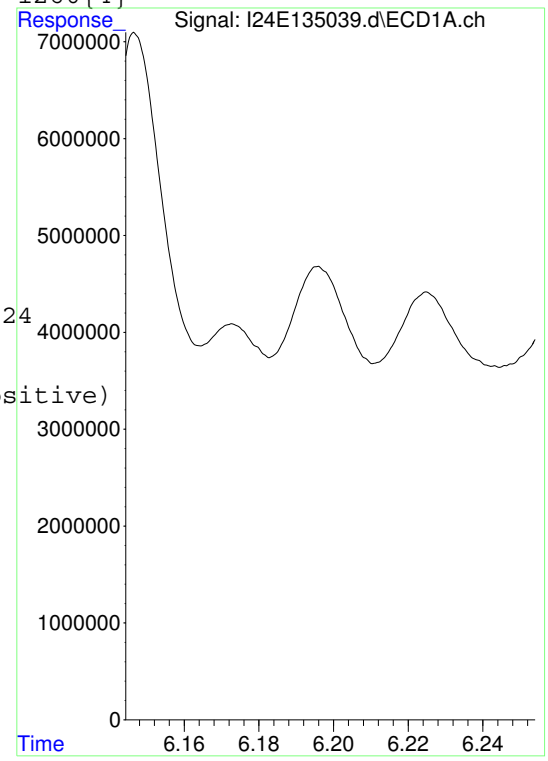
RT : 6.20
Area : 1.37492e+007
Amount: 3.41178

Manual Int. Results

Wed May 15 08:42:52 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

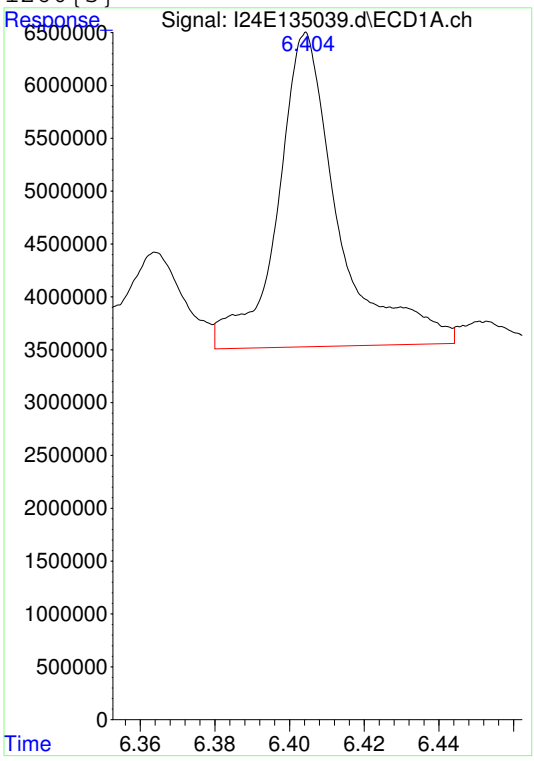
Manual Integration
1260{4}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135039.d
Acq On : 14 May 2024 8:38 pm
Operator : PJG
Sample : 24E1437-19@4X TBA
Misc :

Quant Time : Wed May 15 08:43:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1260{5}



Original Int. Results

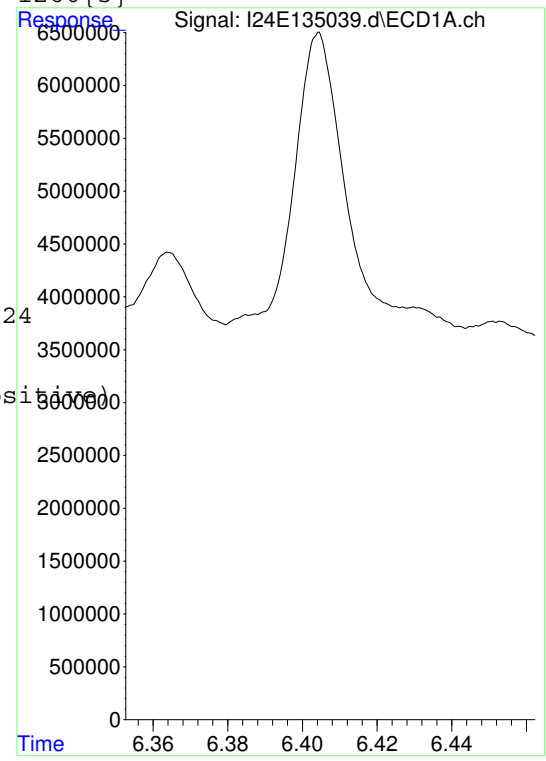
RT : 6.40
Area : 3.35906e+007
Amount: 3.97551

Manual Int. Results

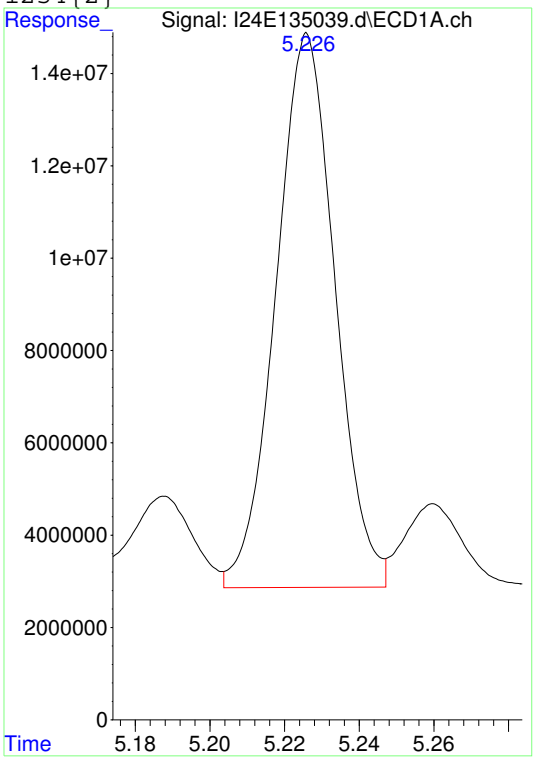
Wed May 15 08:42:52 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1260{5}



Original Integration
1254{2}



Original Int. Results

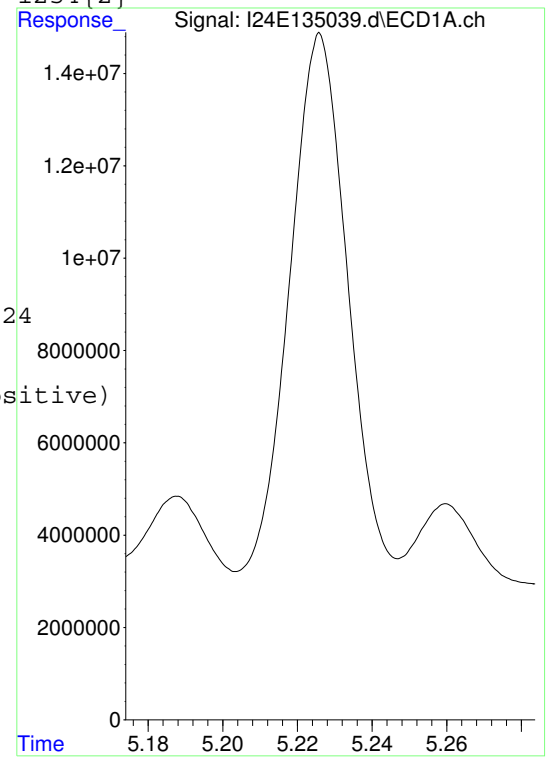
RT : 5.23
Area : 1.31783e+008
Amount: 40.1953

Manual Int. Results

Wed May 15 08:43:00 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

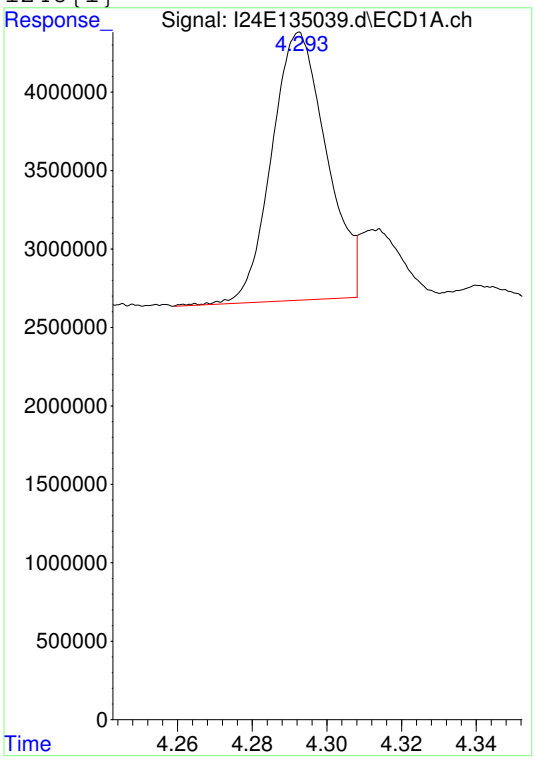
Manual Integration
1254{2}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135039.d
Acq On : 14 May 2024 8:38 pm
Operator : PJG
Sample : 24E1437-19@4X TBA
Misc :

Quant Time : Wed May 15 08:43:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1248{1}



Original Int. Results

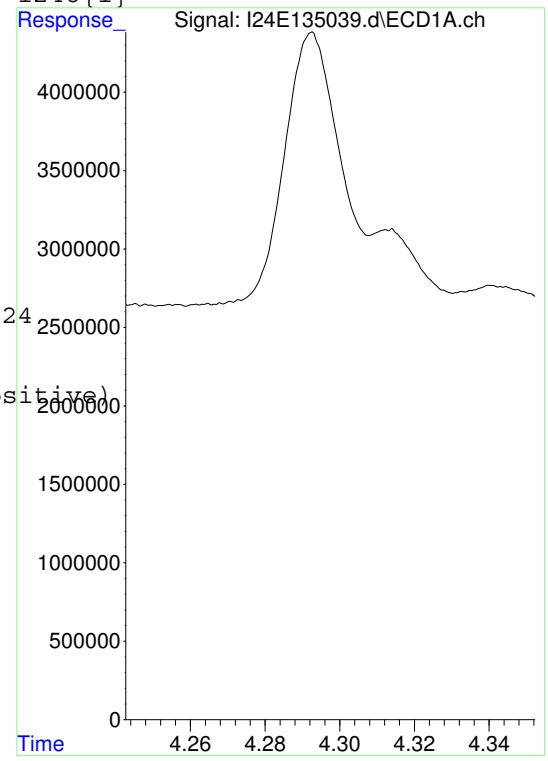
RT : 4.29
Area : 1.73504e+007
Amount: 9.41152

Manual Int. Results

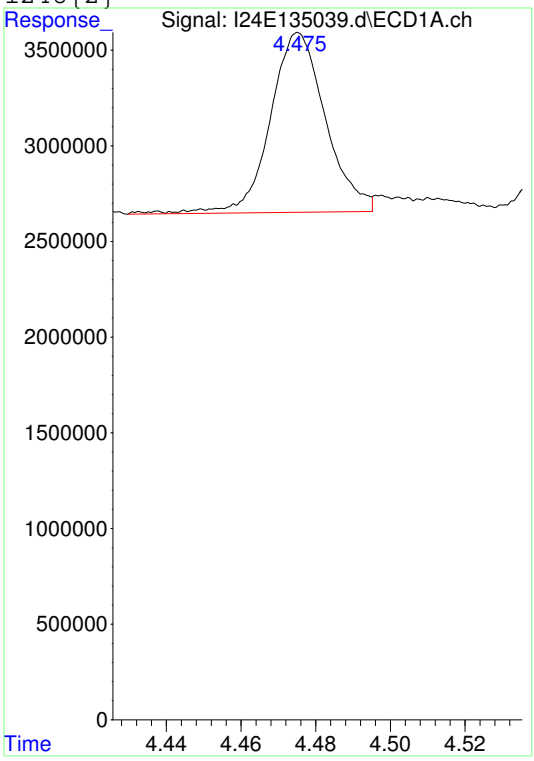
Wed May 15 08:42:52 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1248{1}



Original Integration
1248{2}



Original Int. Results

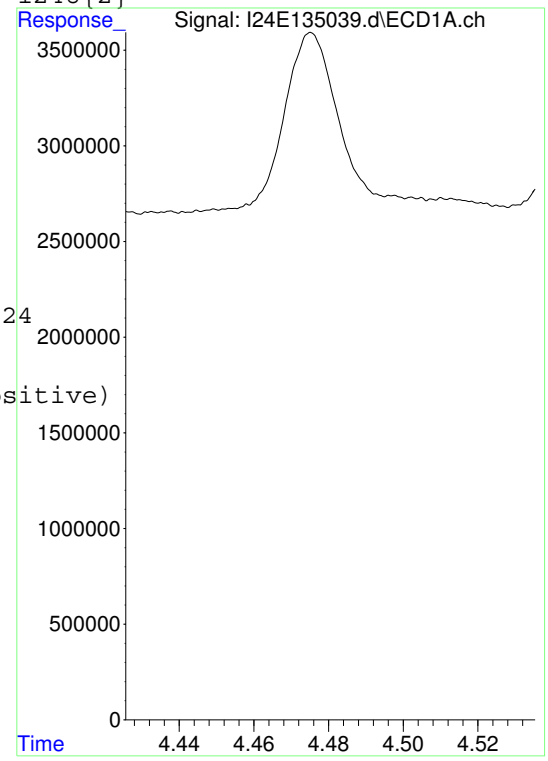
RT : 4.48
Area : 9.63796e+006
Amount: 3.76123

Manual Int. Results

Wed May 15 08:42:52 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

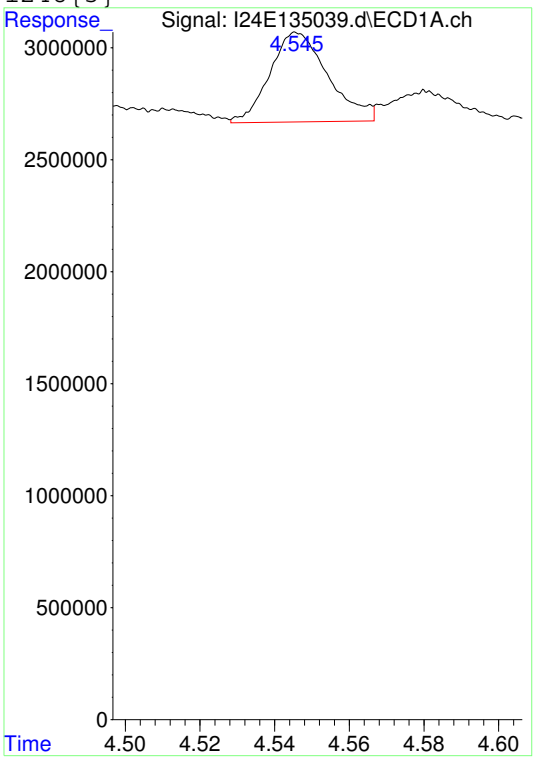
Manual Integration
1248{2}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135039.d
Acq On : 14 May 2024 8:38 pm
Operator : PJG
Sample : 24E1437-19@4X TBA
Misc :

Quant Time : Wed May 15 08:43:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1248{3}



Original Int. Results

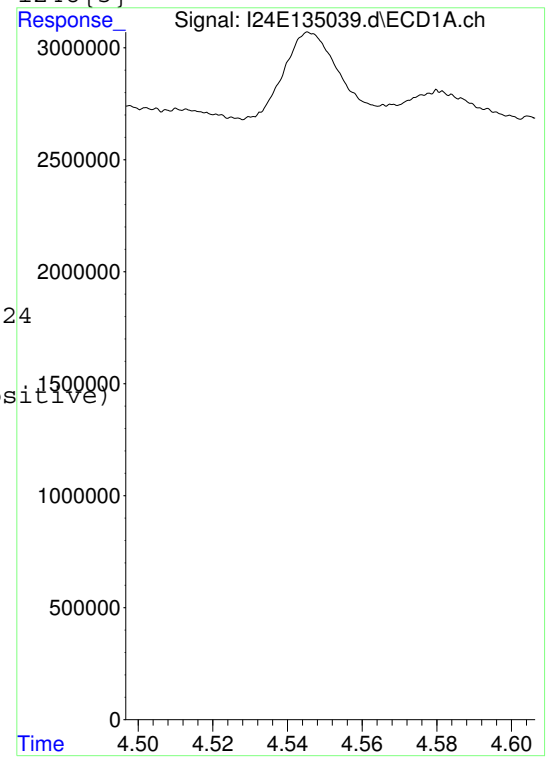
RT : 4.55
Area : 4.30293e+006
Amount: 2.43613

Manual Int. Results

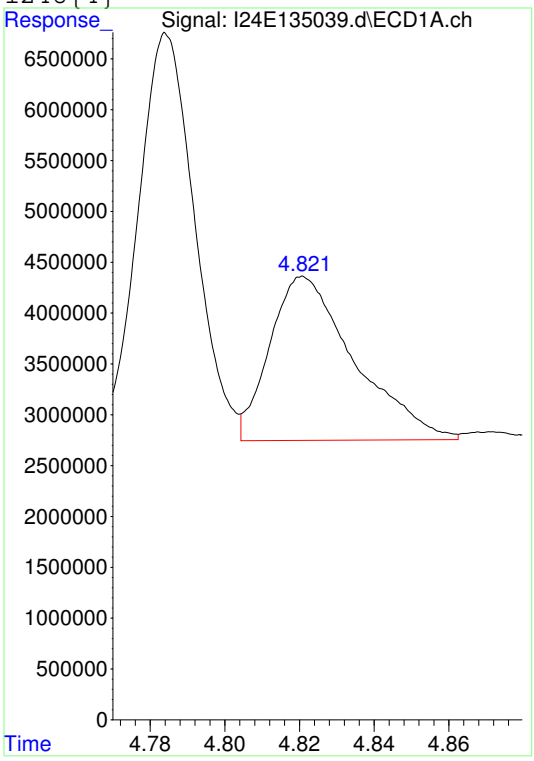
Wed May 15 08:42:51 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1248{3}



Original Integration
1248{4}



Original Int. Results

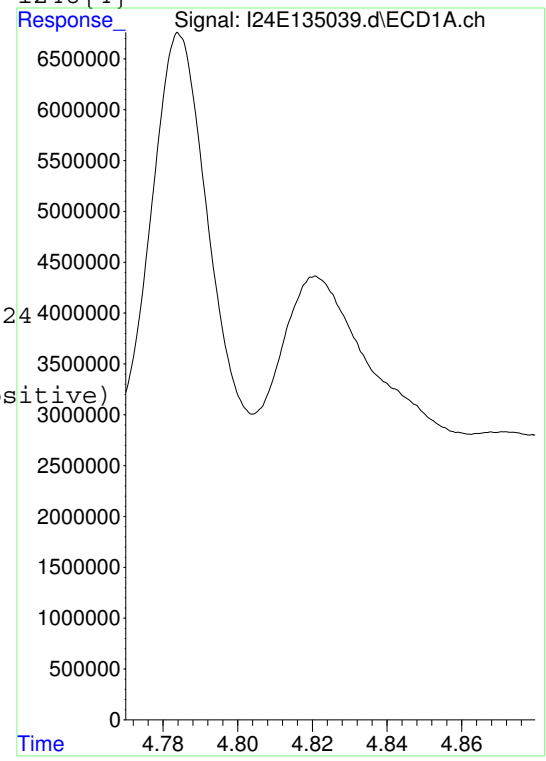
RT : 4.82
Area : 2.54434e+007
Amount: 8.59007

Manual Int. Results

Wed May 15 08:42:51 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

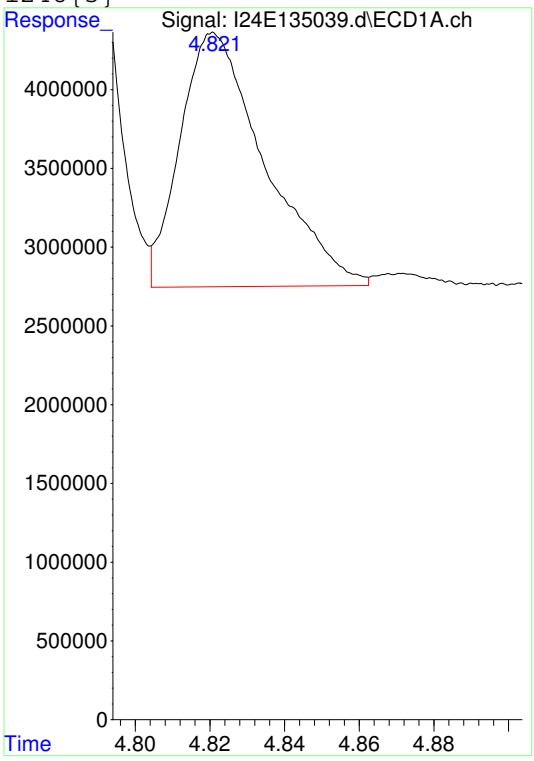
Manual Integration
1248{4}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135039.d
Acq On : 14 May 2024 8:38 pm
Operator : PJG
Sample : 24E1437-19@4X TBA
Misc :

Quant Time : Wed May 15 08:43:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1248{5}



Original Int. Results

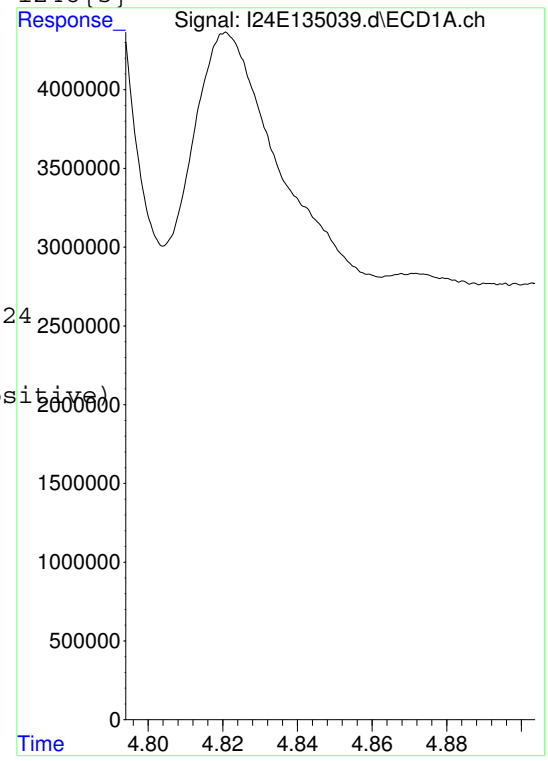
RT : 4.82
Area : 2.54434e+007
Amount: 8.89899

Manual Int. Results

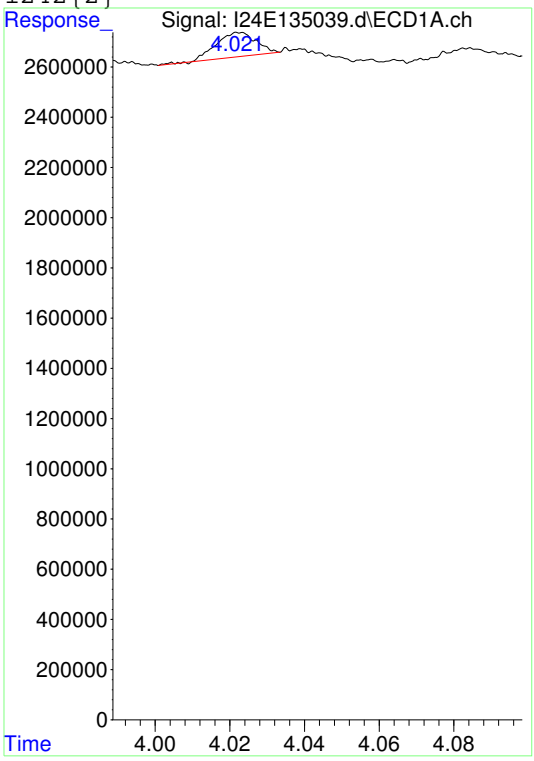
Wed May 15 08:42:51 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1248{5}



Original Integration
1242{2}



Original Int. Results

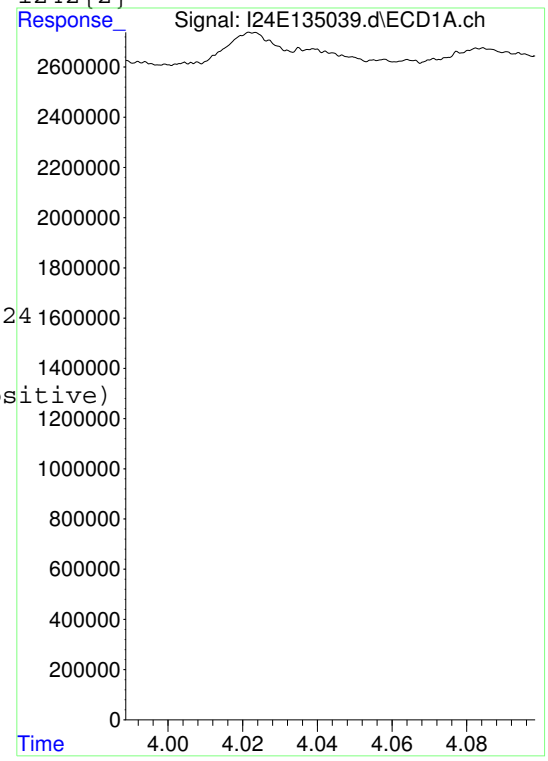
RT : 4.02
Area : 708964
Amount: 0.216331

Manual Int. Results

Wed May 15 08:42:51 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

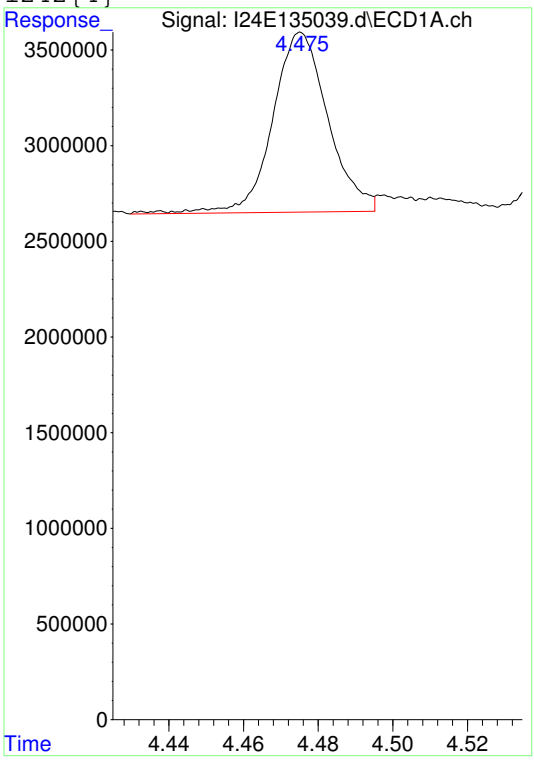
Manual Integration
1242{2}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135039.d
Acq On : 14 May 2024 8:38 pm
Operator : PJG
Sample : 24E1437-19@4X TBA
Misc :

Quant Time : Wed May 15 08:43:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1242{4}



Original Int. Results

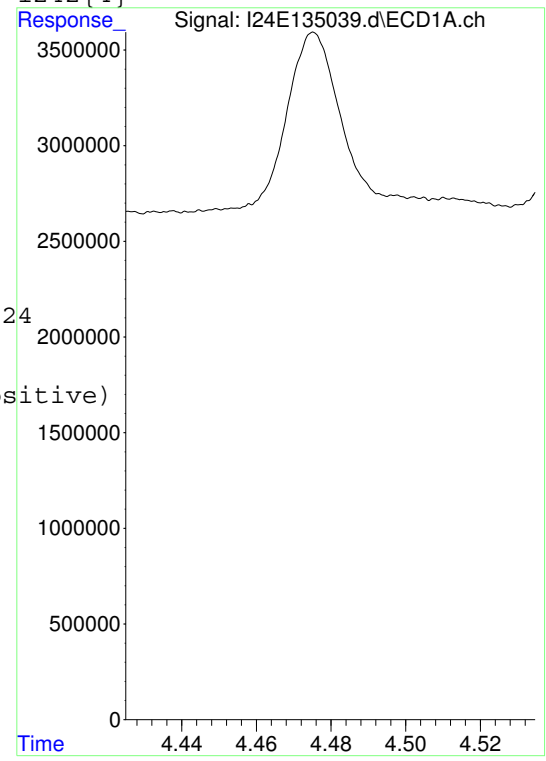
RT : 4.48
Area : 9.63796e+006
Amount: 5.25794

Manual Int. Results

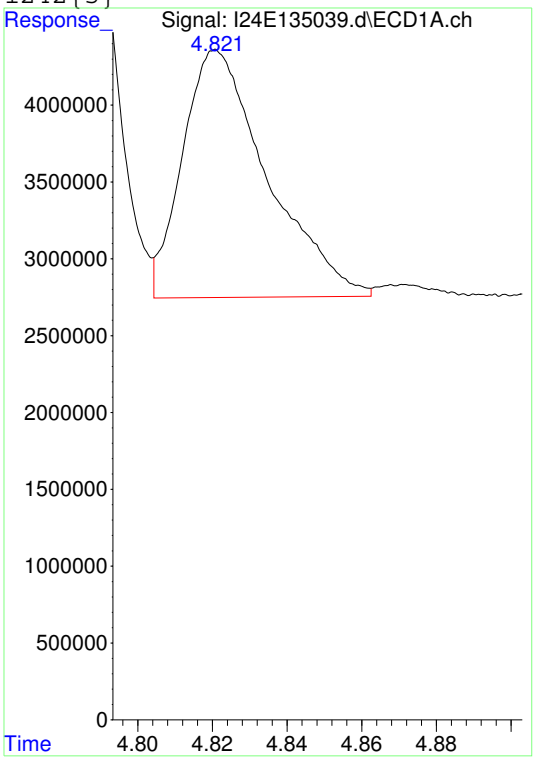
Wed May 15 08:42:50 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1242{4}



Original Integration
1242{5}



Original Int. Results

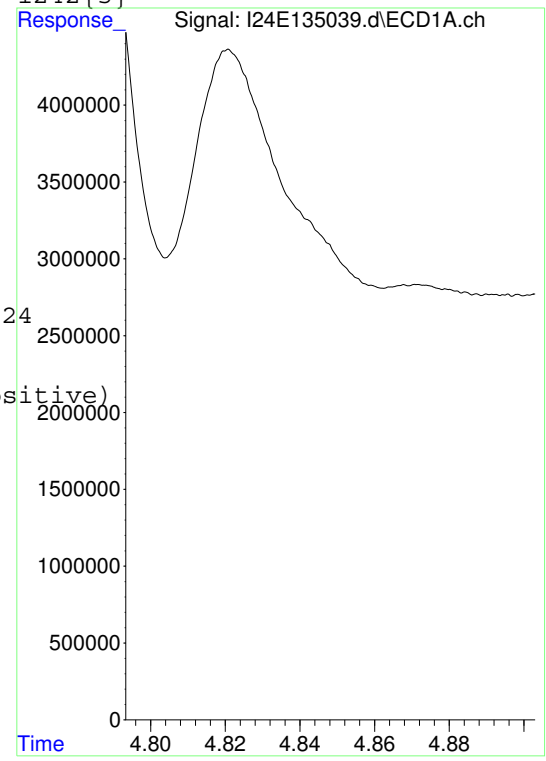
RT : 4.82
Area : 2.54434e+007
Amount: 13.6388

Manual Int. Results

Wed May 15 08:42:50 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

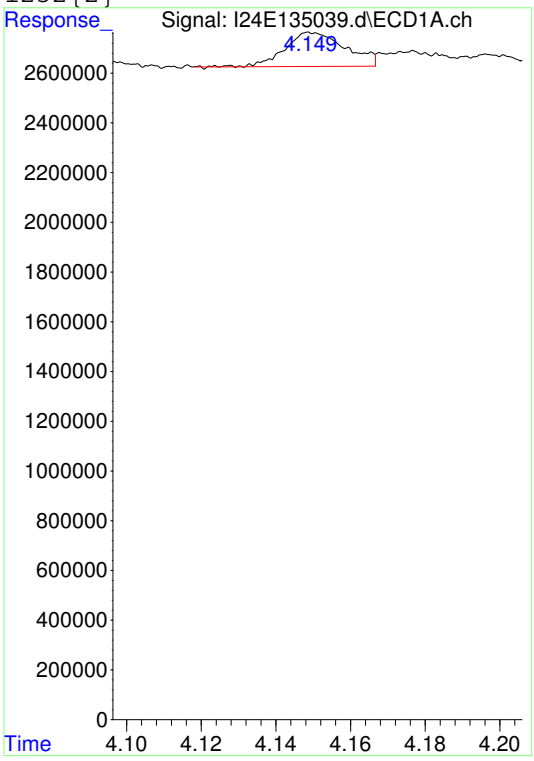
Manual Integration
1242{5}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135039.d
Acq On : 14 May 2024 8:38 pm
Operator : PJG
Sample : 24E1437-19@4X TBA
Misc :

Quant Time : Wed May 15 08:43:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1232{2}



Original Int. Results

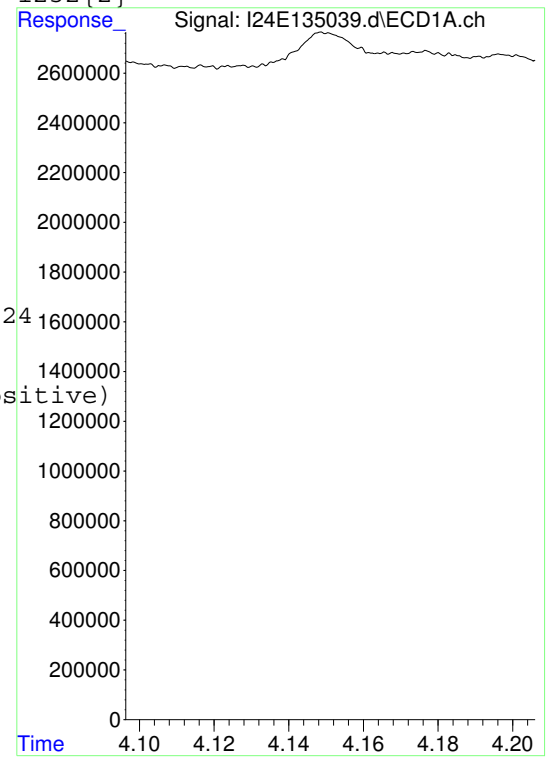
RT : 4.15
Area : 1.52438e+006
Amount: 1.07534

Manual Int. Results

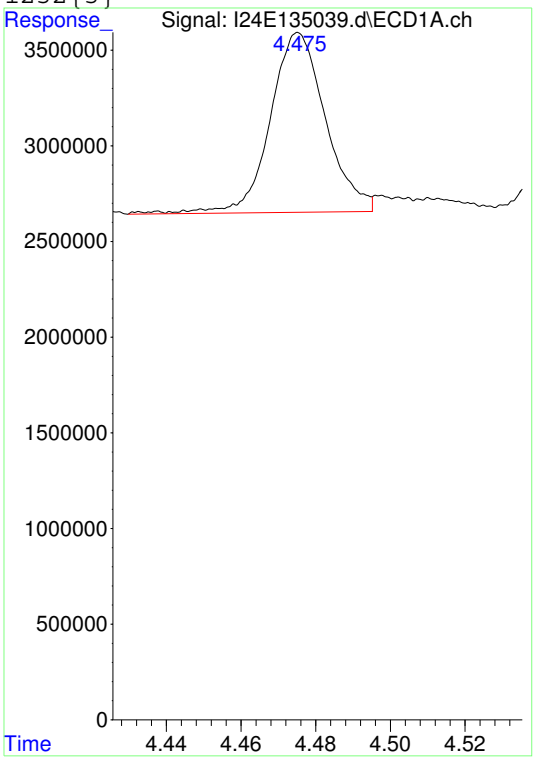
Wed May 15 08:42:50 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1232{2}



Original Integration
1232{3}



Original Int. Results

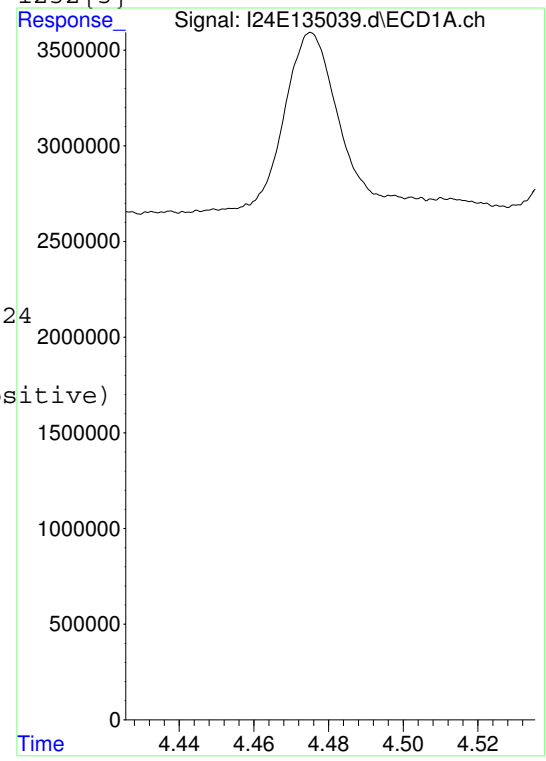
RT : 4.48
Area : 9.63796e+006
Amount: 9.58004

Manual Int. Results

Wed May 15 08:42:49 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

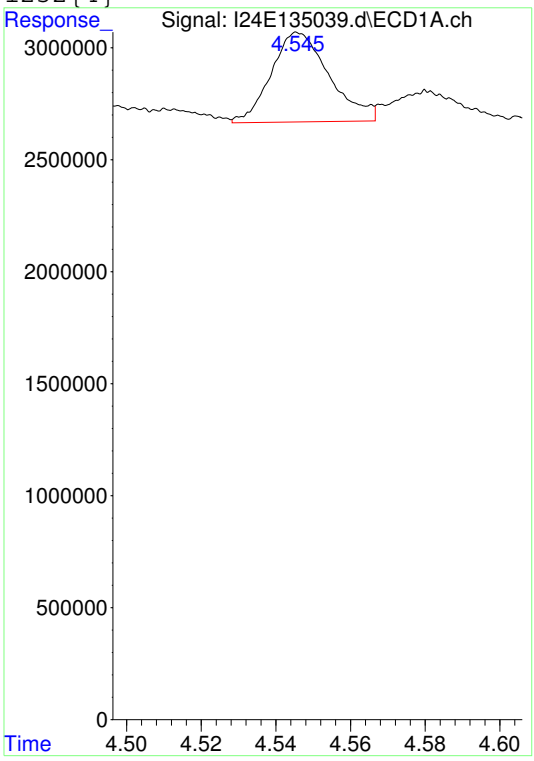
Manual Integration
1232{3}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135039.d
Acq On : 14 May 2024 8:38 pm
Operator : PJG
Sample : 24E1437-19@4X TBA
Misc :

Quant Time : Wed May 15 08:43:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1232{4}



Original Int. Results

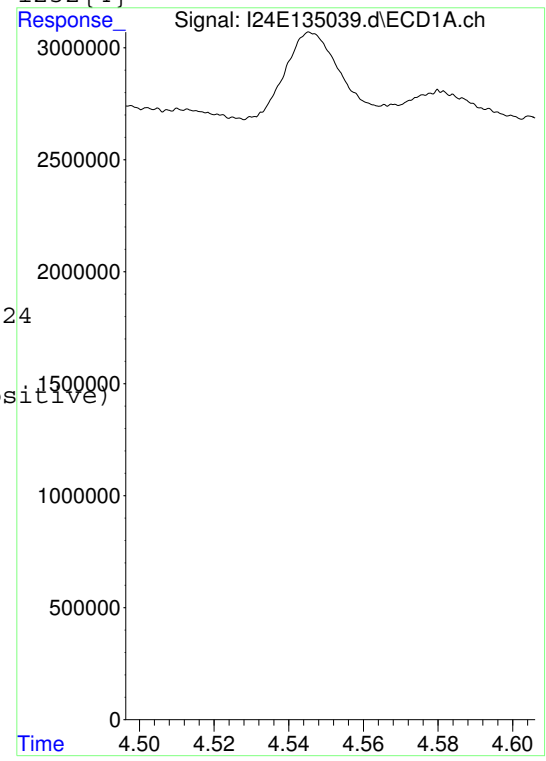
RT : 4.55
Area : 4.30293e+006
Amount: 6.36342

Manual Int. Results

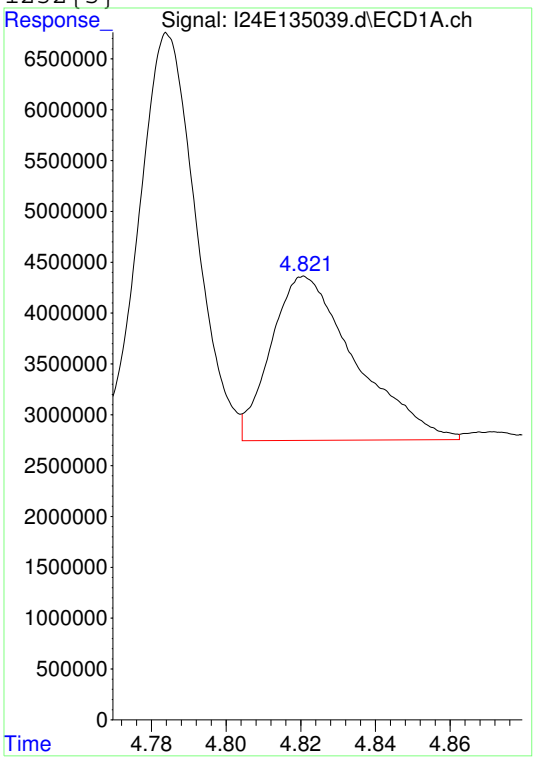
Wed May 15 08:42:49 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1232{4}



Original Integration
1232{5}



Original Int. Results

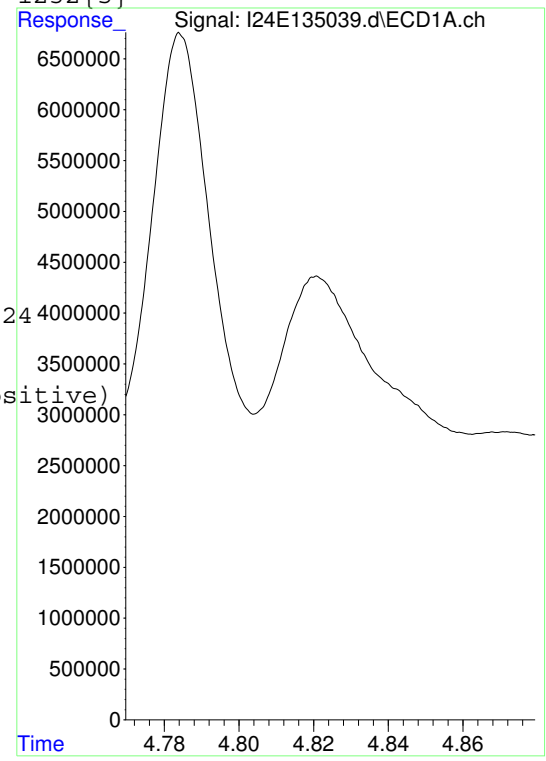
RT : 4.82
Area : 2.54434e+007
Amount: 25.8551

Manual Int. Results

Wed May 15 08:42:49 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

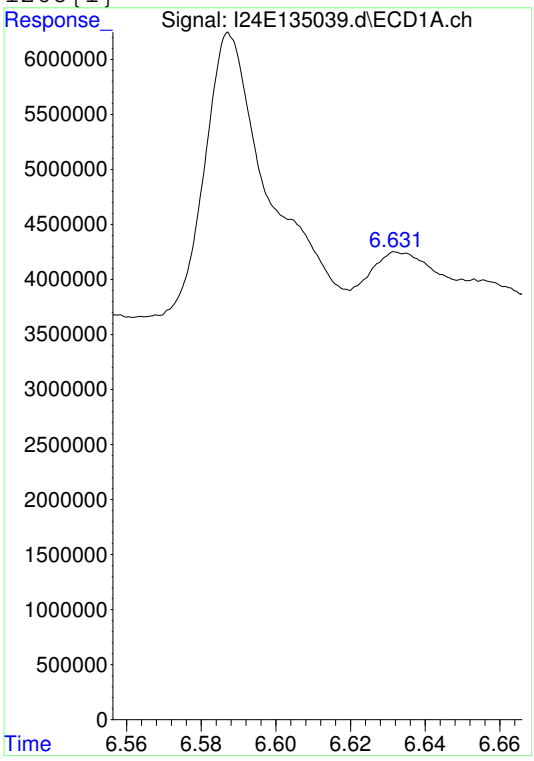
Manual Integration
1232{5}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135039.d
Acq On : 14 May 2024 8:38 pm
Operator : PJG
Sample : 24E1437-19@4X TBA
Misc :

Quant Time : Wed May 15 08:43:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1268{1}



Original Int. Results

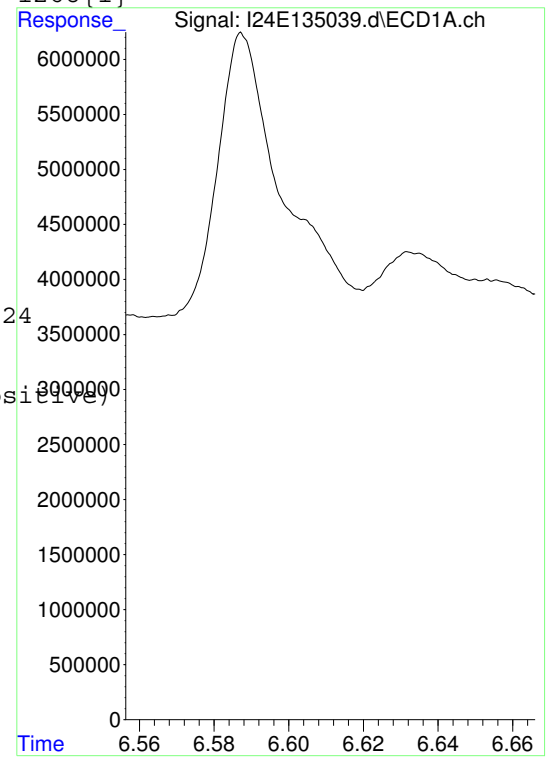
RT : 6.63
Area : 9.25777e+006
Amount: 0.880384

Manual Int. Results

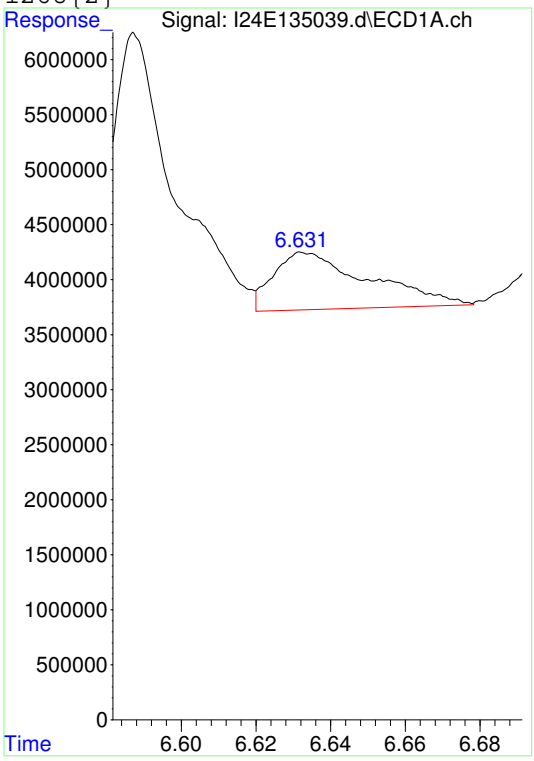
Wed May 15 08:42:49 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1268{1}



Original Integration
1268{2}



Original Int. Results

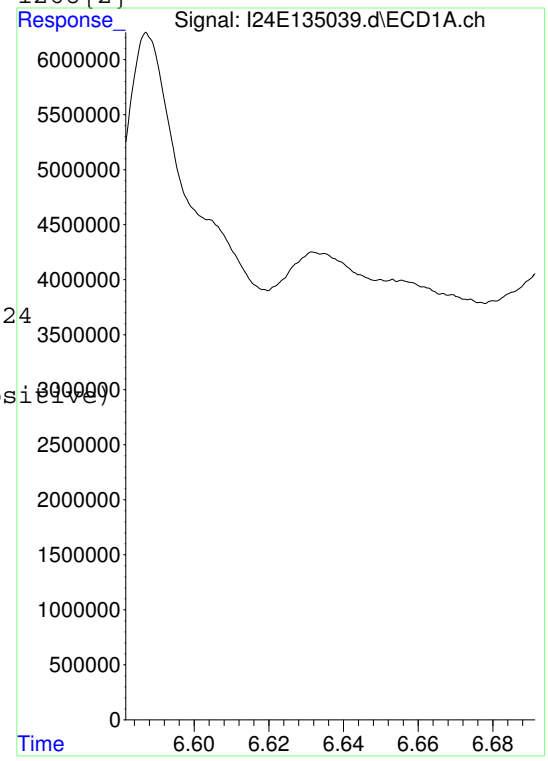
RT : 6.63
Area : 9.25777e+006
Amount: 0.864599

Manual Int. Results

Wed May 15 08:42:49 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

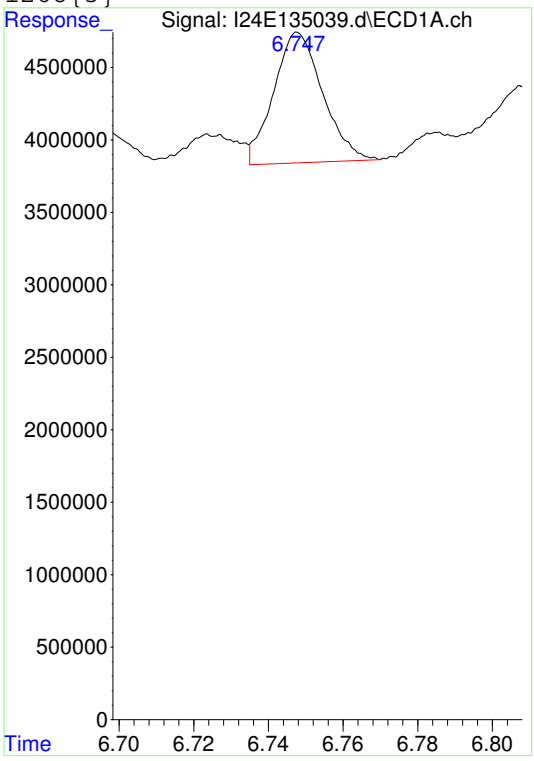
Manual Integration
1268{2}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135039.d
Acq On : 14 May 2024 8:38 pm
Operator : PJG
Sample : 24E1437-19@4X TBA
Misc :

Quant Time : Wed May 15 08:43:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1268{3}



Original Int. Results

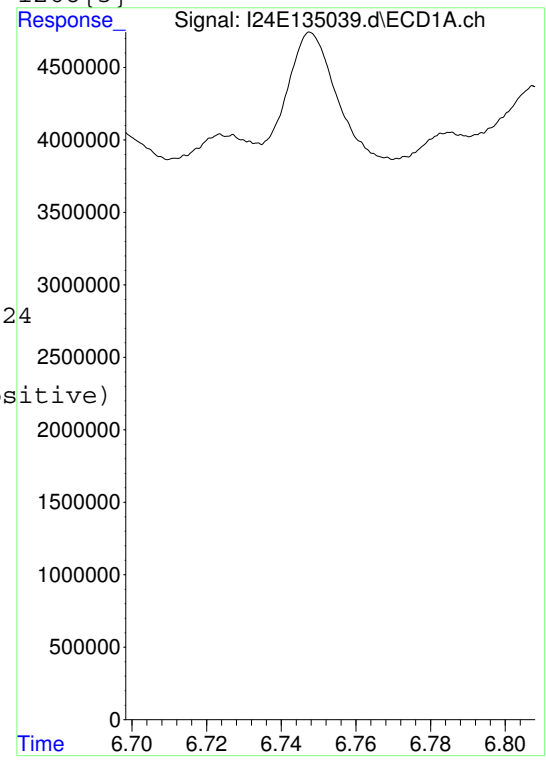
RT : 6.75
Area : 8.22105e+006
Amount: 0.855119

Manual Int. Results

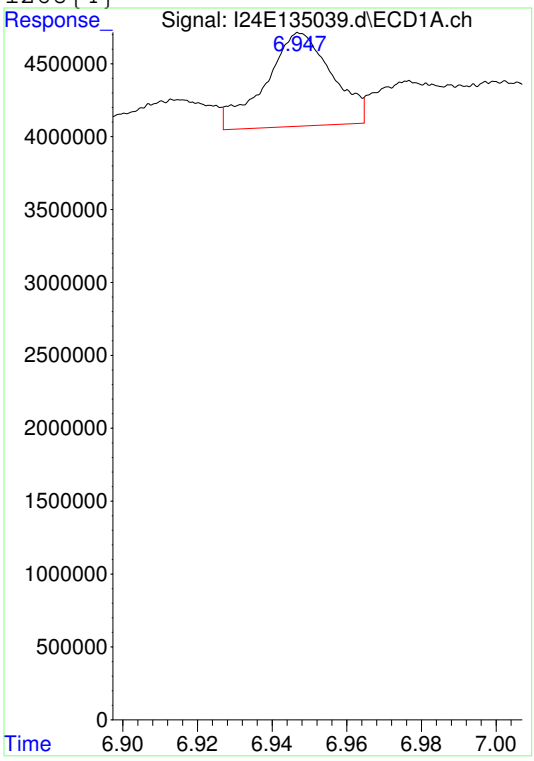
Wed May 15 08:42:48 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1268{3}



Original Integration
1268{4}



Original Int. Results

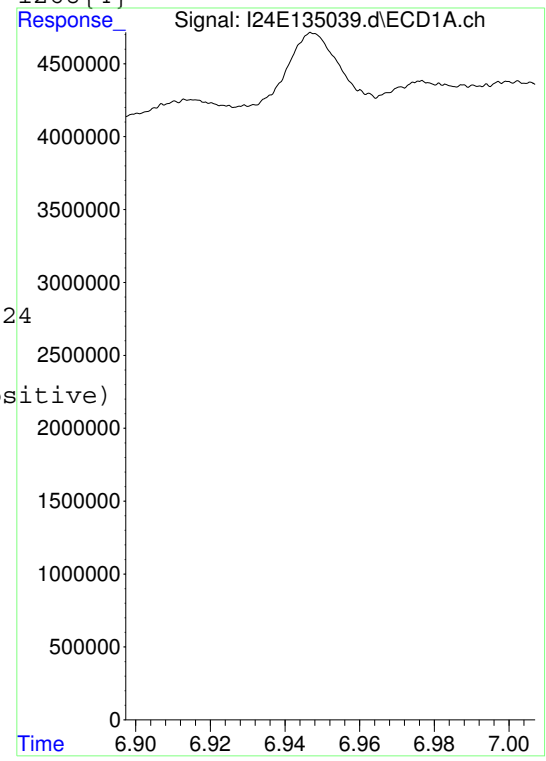
RT : 6.95
Area : 7.91086e+006
Amount: 2.70453

Manual Int. Results

Wed May 15 08:42:48 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

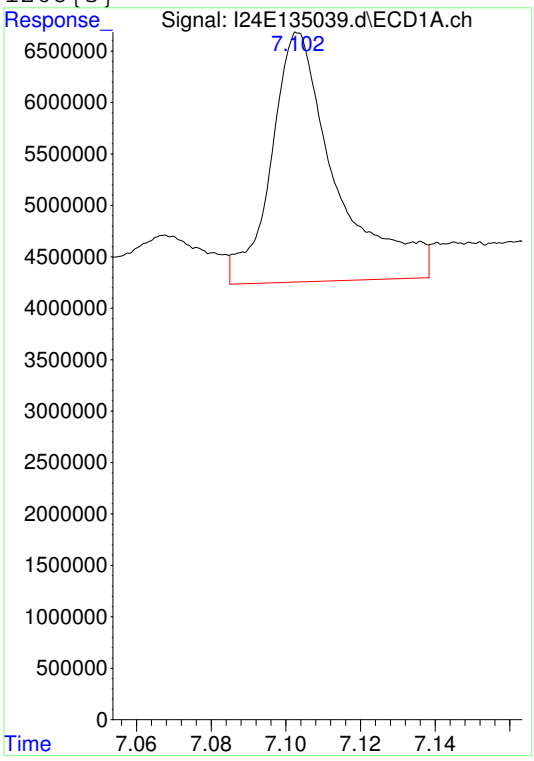
Manual Integration
1268{4}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135039.d
Acq On : 14 May 2024 8:38 pm
Operator : PJG
Sample : 24E1437-19@4X TBA
Misc :

Quant Time : Wed May 15 08:43:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1268{5}



Original Int. Results

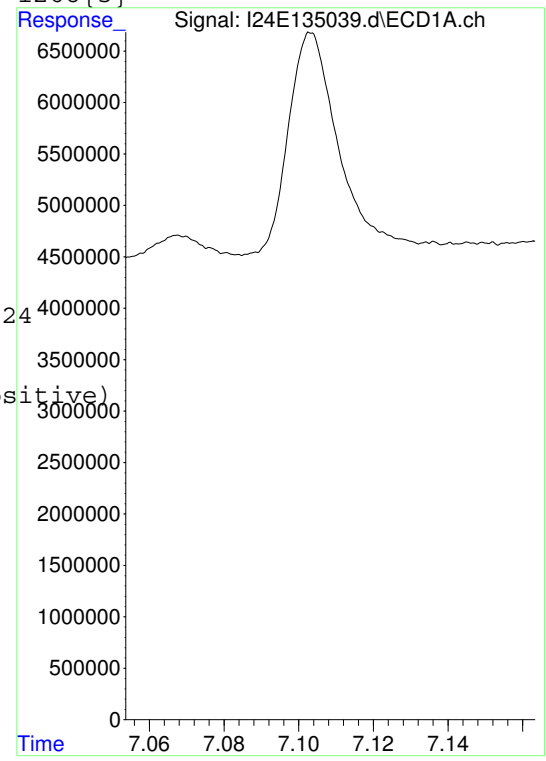
RT : 7.10
Area : 2.90903e+007
Amount: 1.17697

Manual Int. Results

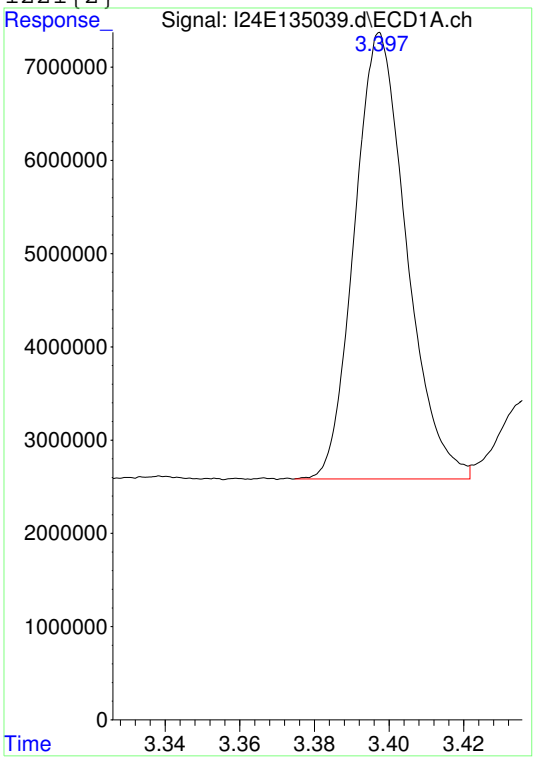
Wed May 15 08:42:48 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1268{5}



Original Integration
1221{2}



Original Int. Results

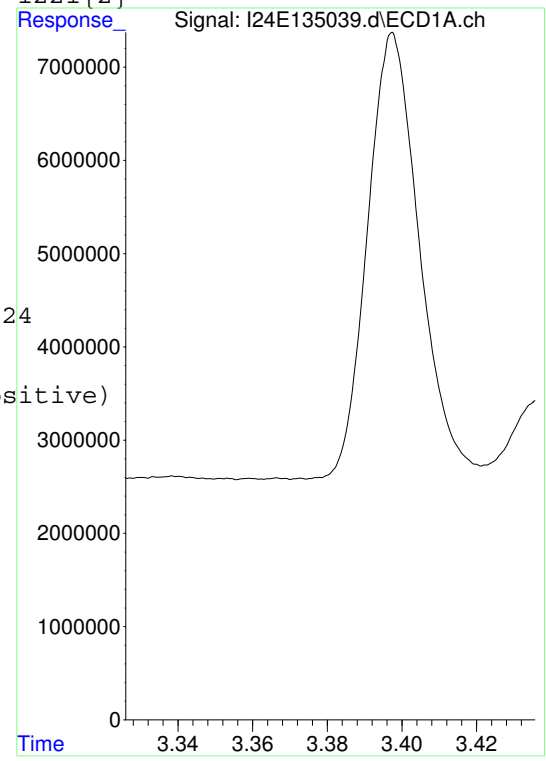
RT : 3.40
Area : 4.63134e+007
Amount: 22.4101

Manual Int. Results

Wed May 15 08:42:48 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

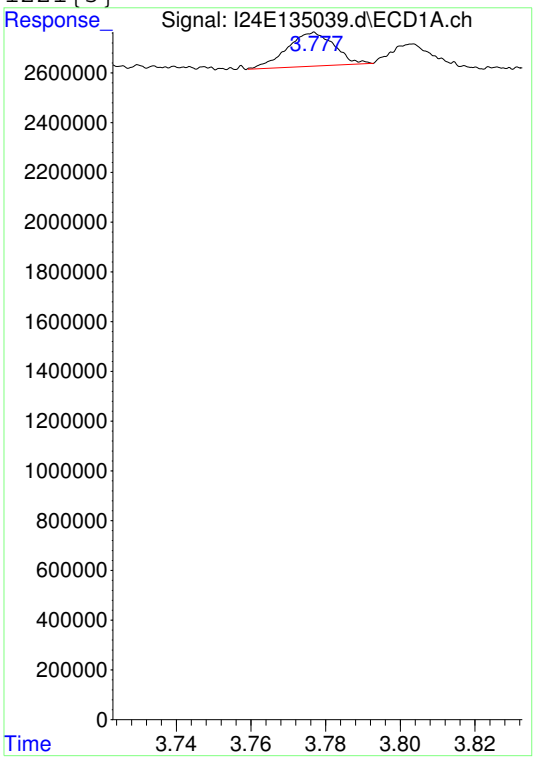
Manual Integration
1221{2}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135039.d
Acq On : 14 May 2024 8:38 pm
Operator : PJG
Sample : 24E1437-19@4X TBA
Misc :

Quant Time : Wed May 15 08:43:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1221{3}



Original Int. Results

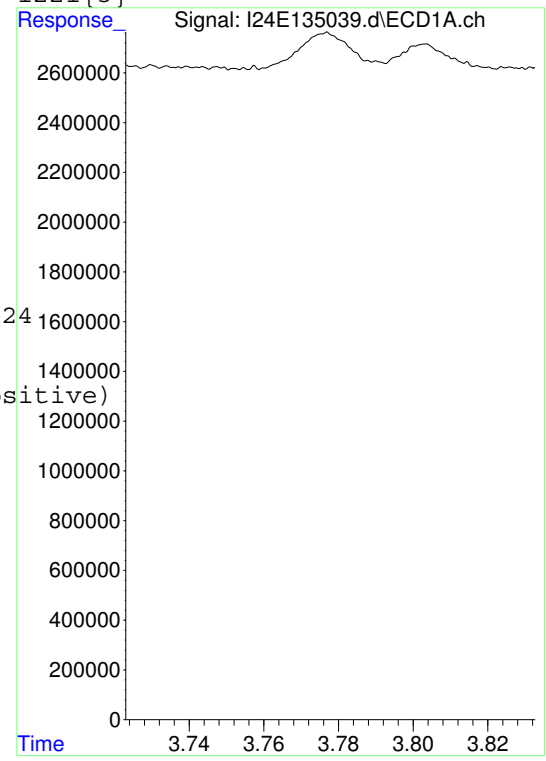
RT : 3.78
Area : 1.18344e+006
Amount: 4.06759

Manual Int. Results

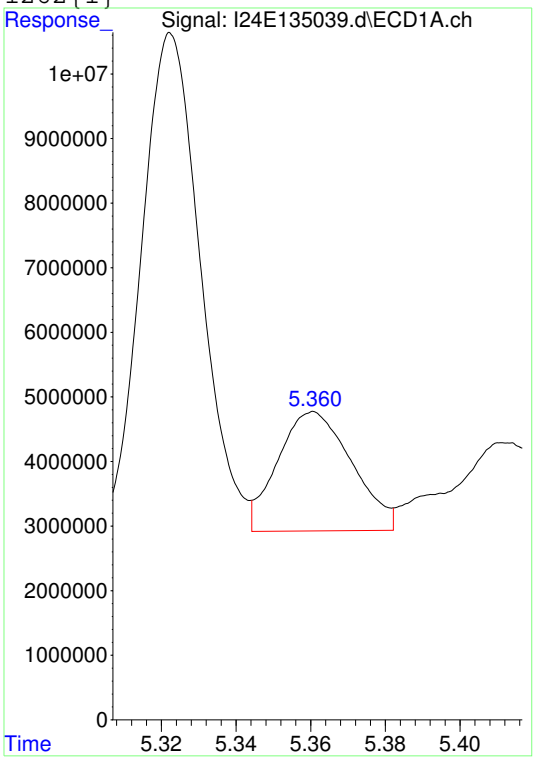
Wed May 15 08:42:47 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1221{3}



Original Integration
1262{1}



Original Int. Results

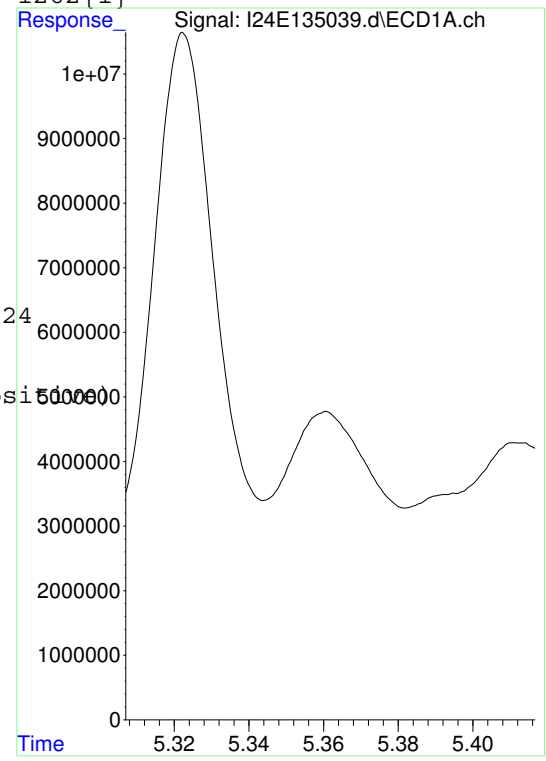
RT : 5.36
Area : 2.54976e+007
Amount: 12.5518

Manual Int. Results

Wed May 15 08:42:47 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

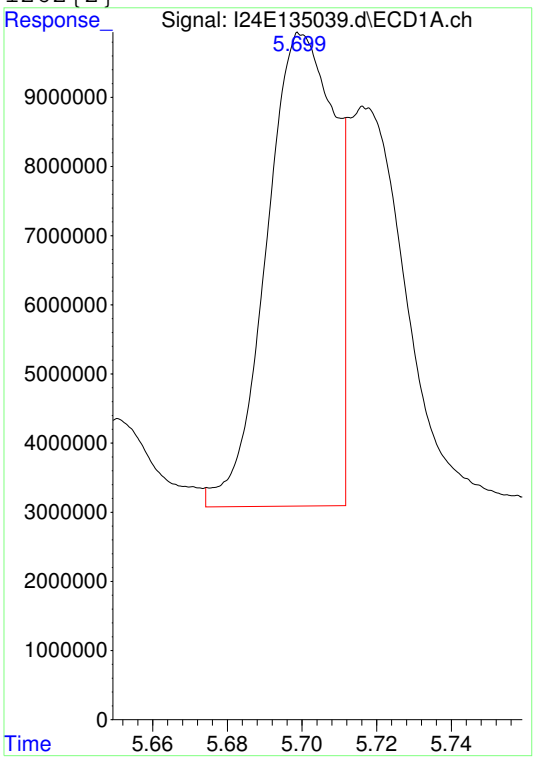
Manual Integration
1262{1}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135039.d
Acq On : 14 May 2024 8:38 pm
Operator : PJG
Sample : 24E1437-19@4X TBA
Misc :

Quant Time : Wed May 15 08:43:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1262{2}



Original Int. Results

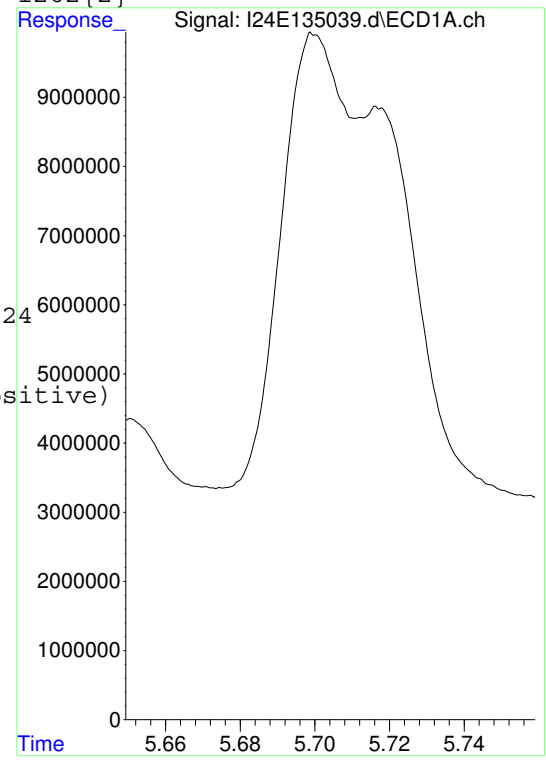
RT : 5.70
Area : 8.61689e+007
Amount: 18.434

Manual Int. Results

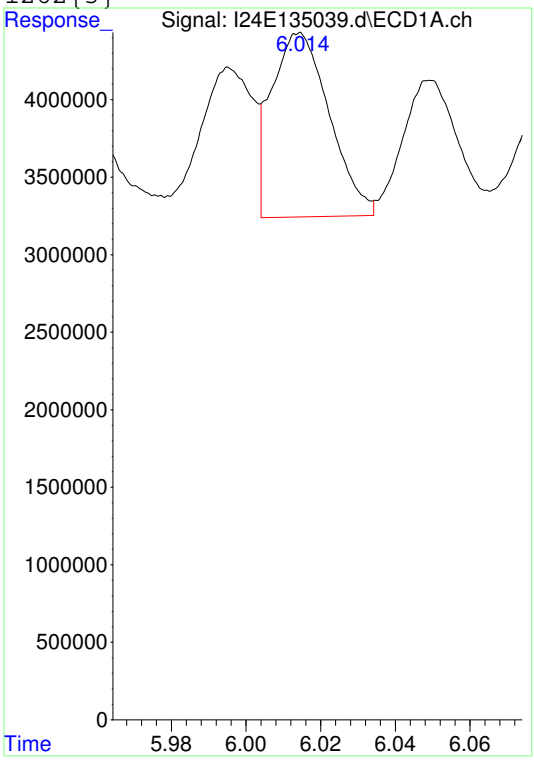
Wed May 15 08:42:47 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1262{2}



Original Integration
1262{3}



Original Int. Results

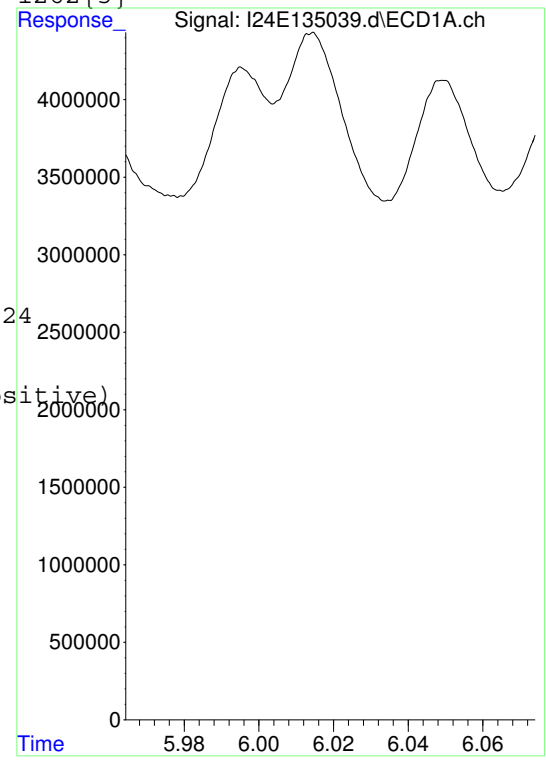
RT : 6.01
Area : 1.28813e+007
Amount: 2.60172

Manual Int. Results

Wed May 15 08:42:47 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

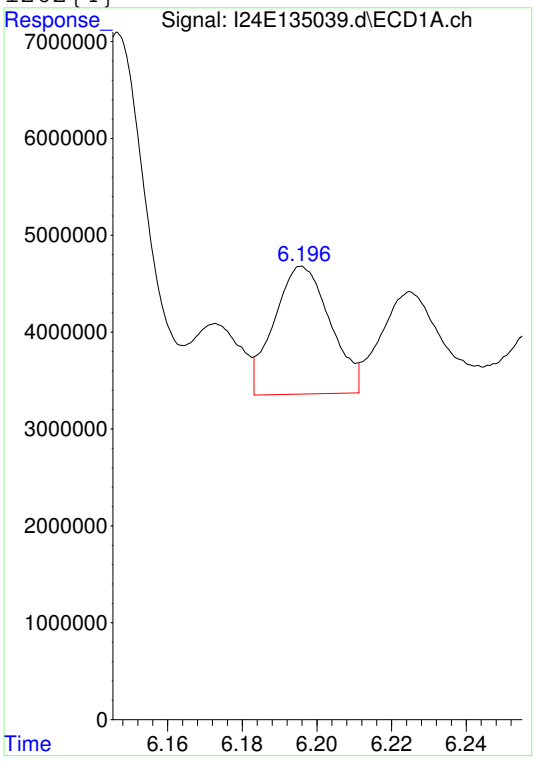
Manual Integration
1262{3}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135039.d
Acq On : 14 May 2024 8:38 pm
Operator : PJG
Sample : 24E1437-19@4X TBA
Misc :

Quant Time : Wed May 15 08:43:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1262{4}



Original Int. Results

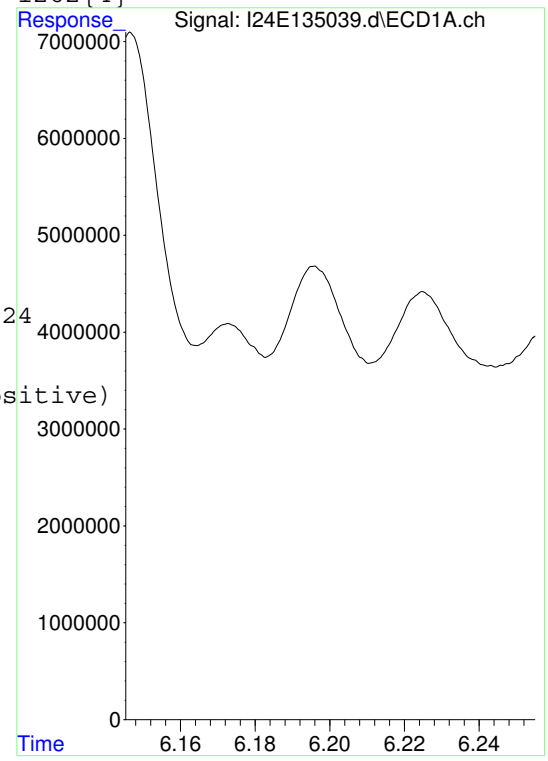
RT : 6.20
Area : 1.37492e+007
Amount: 3.0397

Manual Int. Results

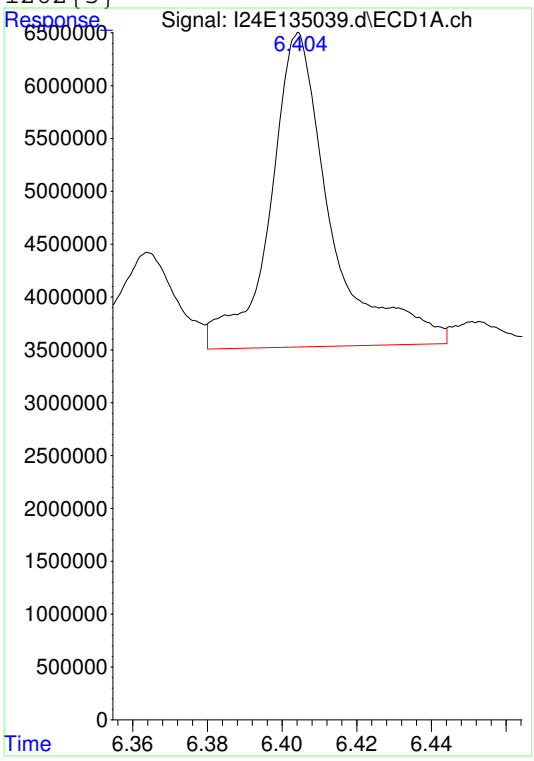
Wed May 15 08:42:47 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1262{4}



Original Integration
1262{5}



Original Int. Results

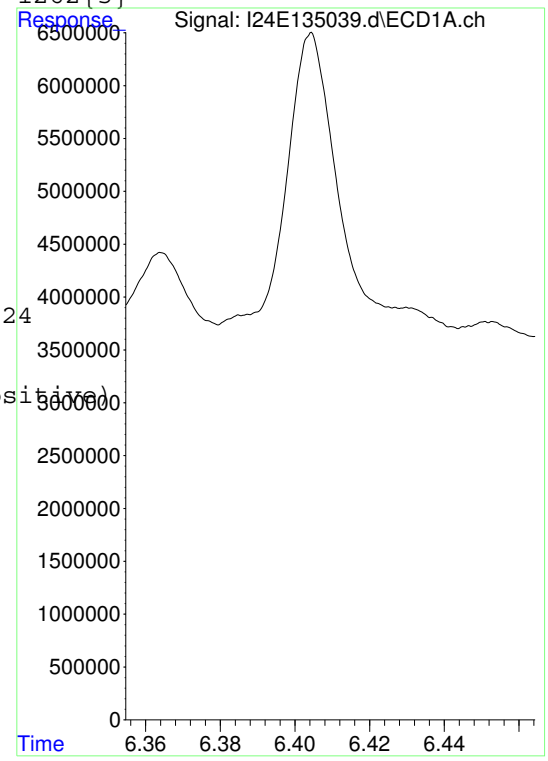
RT : 6.40
Area : 3.35906e+007
Amount: 3.33352

Manual Int. Results

Wed May 15 08:42:46 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

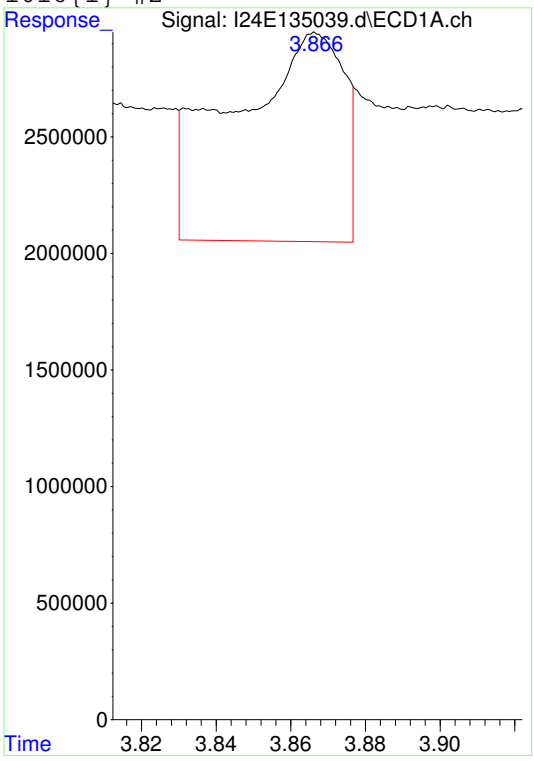
Manual Integration
1262{5}



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135039.d
Acq On : 14 May 2024 8:38 pm
Operator : PJG
Sample : 24E1437-19@4X TBA
Misc :

Quant Time : Wed May 15 08:43:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1016{1} #2



Original Int. Results

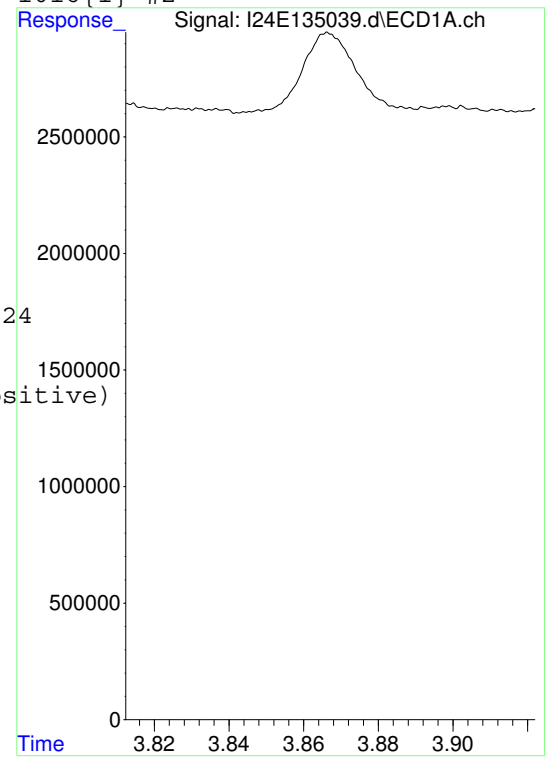
RT : 3.85
Area : 1.17161e+006
Amount: 1.54818

Manual Int. Results

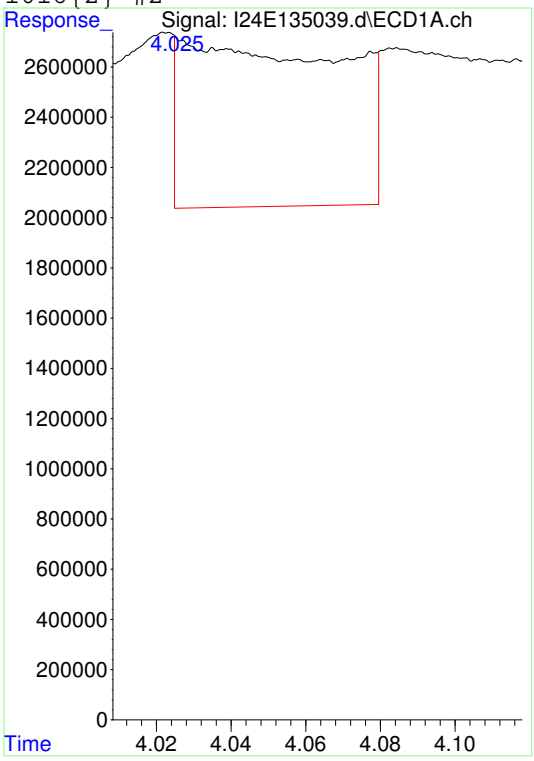
Wed May 15 08:42:54 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1016{1} #2



Original Integration
1016{2} #2



Original Int. Results

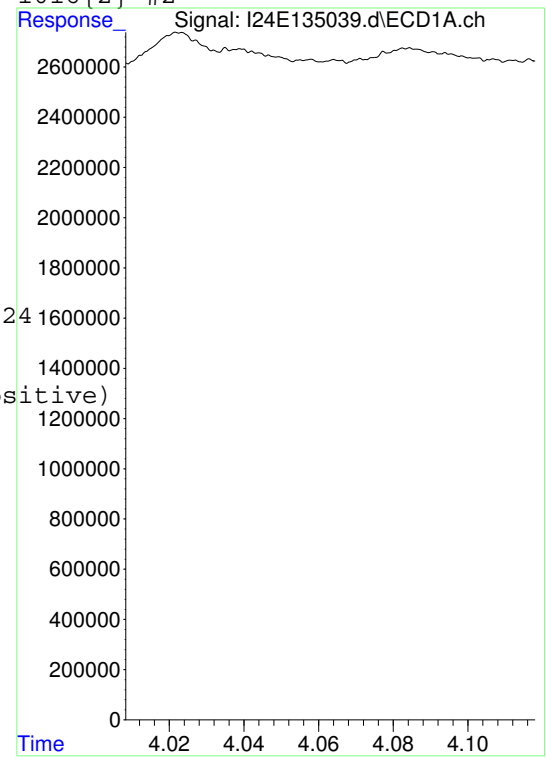
RT : 4.06
Area : 1.24972e+006
Amount: 0.386129

Manual Int. Results

Wed May 15 08:42:54 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

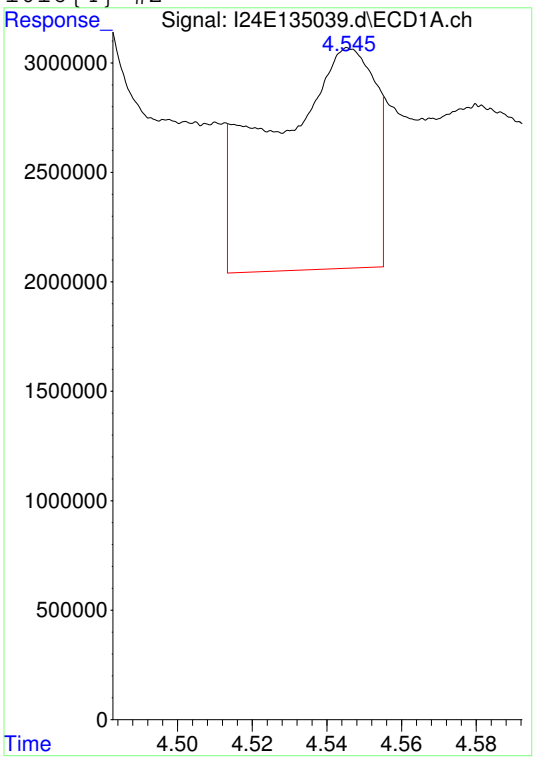
Manual Integration
1016{2} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135039.d
Acq On : 14 May 2024 8:38 pm
Operator : PJG
Sample : 24E1437-19@4X TBA
Misc :

Quant Time : Wed May 15 08:43:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1016{4} #2



Original Int. Results

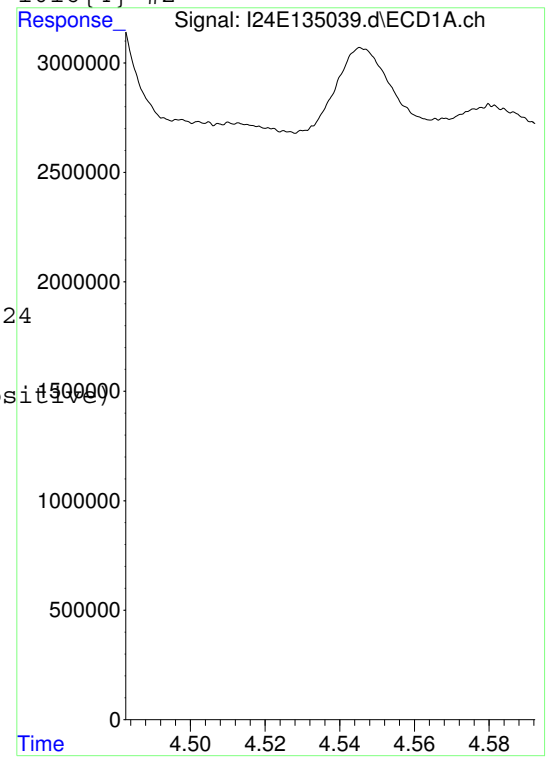
RT : 4.54
Area : 6.75064e+006
Amount: 4.00244

Manual Int. Results

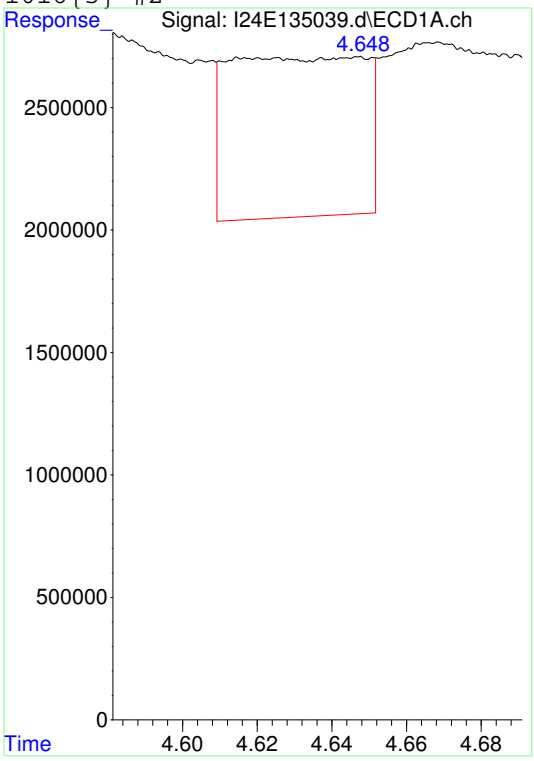
Wed May 15 08:42:53 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1016{4} #2



Original Integration
1016{5} #2



Original Int. Results

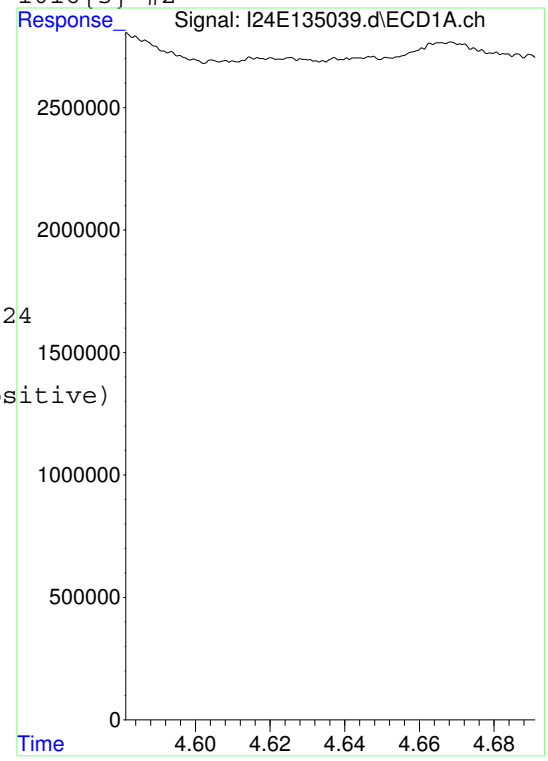
RT : 4.63
Area : 2.59141e+006
Amount: 1.63648

Manual Int. Results

Wed May 15 08:42:53 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

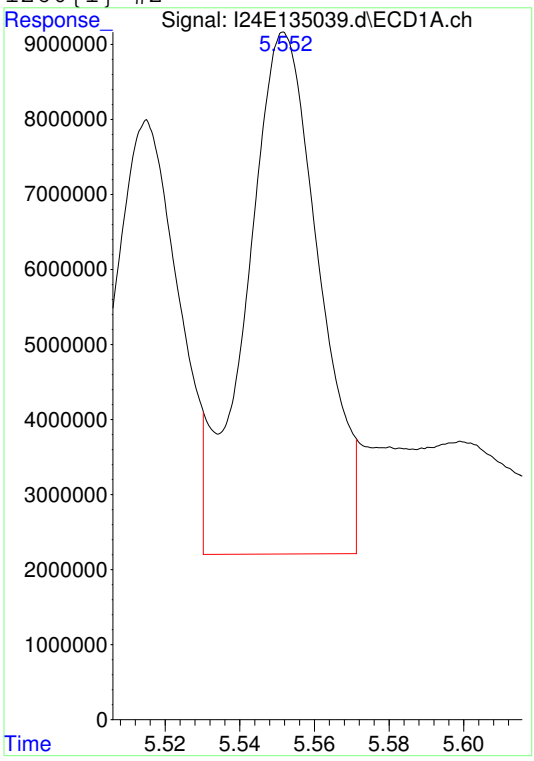
Manual Integration
1016{5} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135039.d
Acq On : 14 May 2024 8:38 pm
Operator : PJG
Sample : 24E1437-19@4X TBA
Misc :

Quant Time : Wed May 15 08:43:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1260{1} #2



Original Int. Results

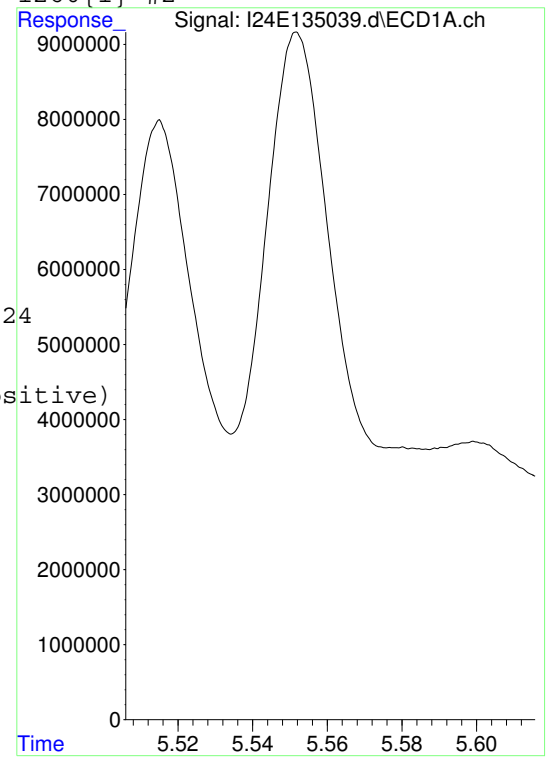
RT : 5.56
Area : 4.79113e+007
Amount: 13.8813

Manual Int. Results

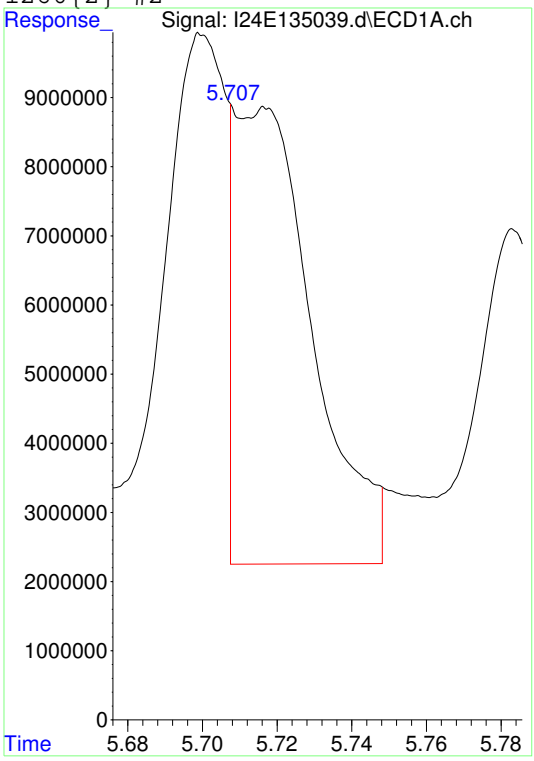
Wed May 15 08:42:53 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1260{1} #2



Original Integration
1260{2} #2



Original Int. Results

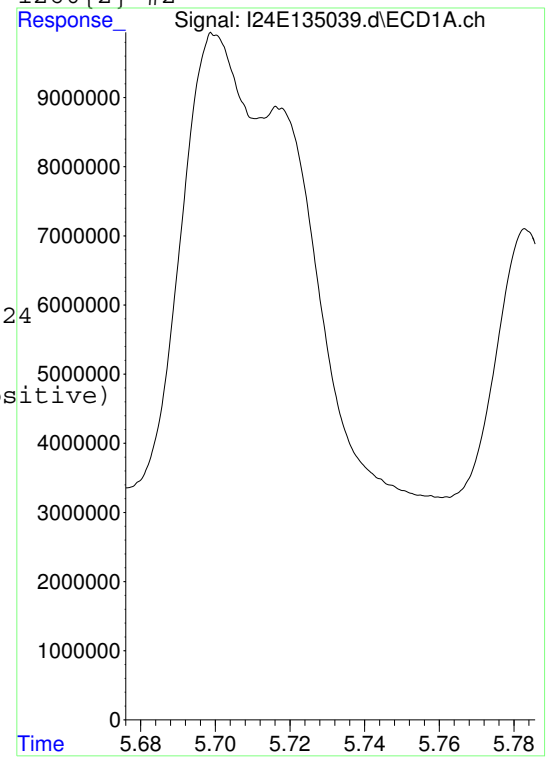
RT : 5.73
Area : 5.70889e+007
Amount: 14.1602

Manual Int. Results

Wed May 15 08:42:53 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

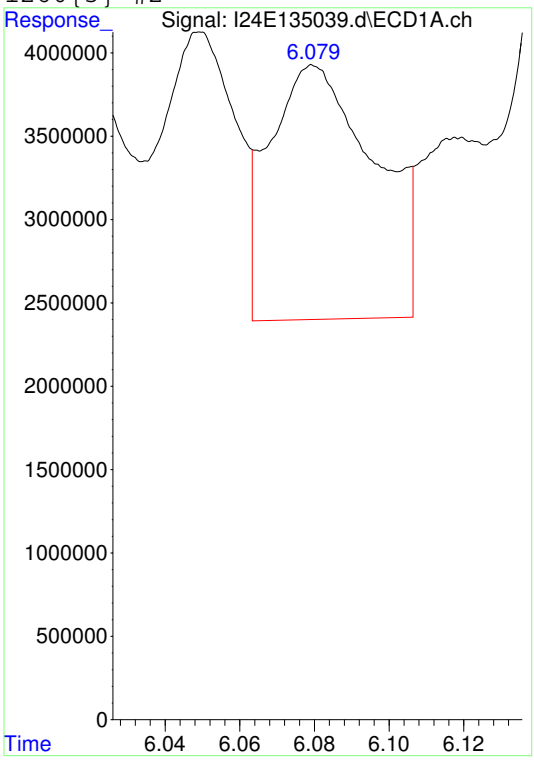
Manual Integration
1260{2} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135039.d
Acq On : 14 May 2024 8:38 pm
Operator : PJG
Sample : 24E1437-19@4X TBA
Misc :

Quant Time : Wed May 15 08:43:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1260{3} #2



Original Int. Results

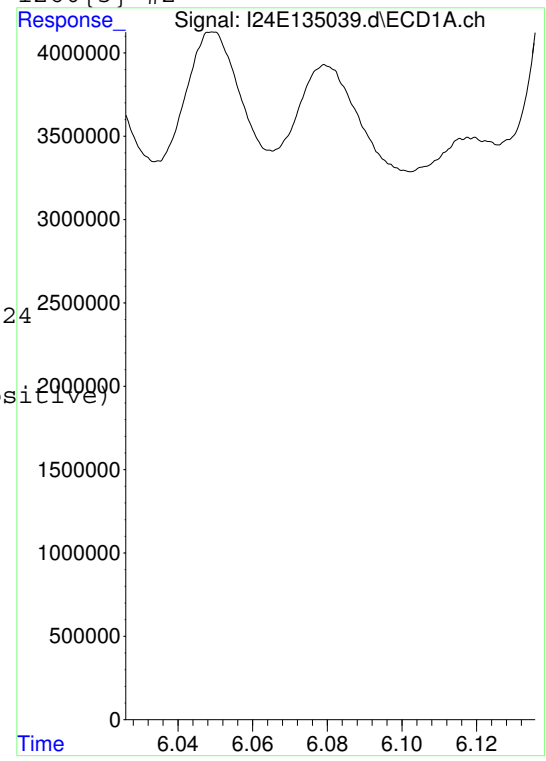
RT : 6.08
Area : 1.63212e+007
Amount: 5.39798

Manual Int. Results

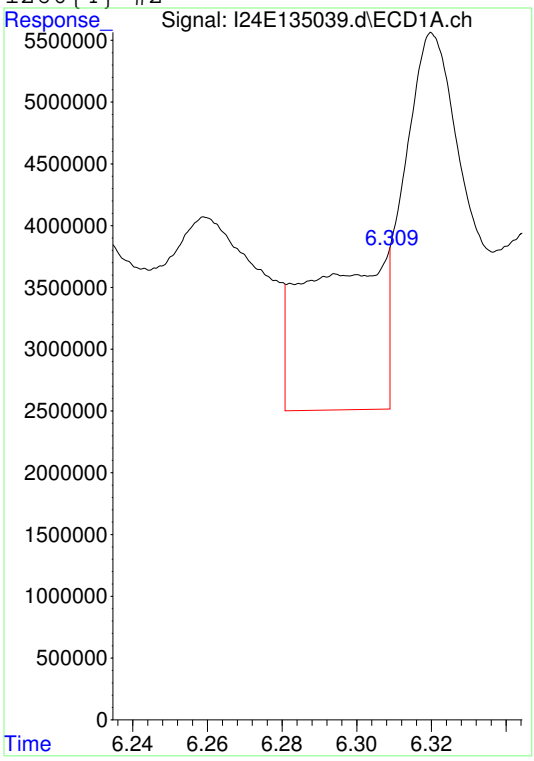
Wed May 15 08:42:53 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1260{3} #2



Original Integration
1260{4} #2



Original Int. Results

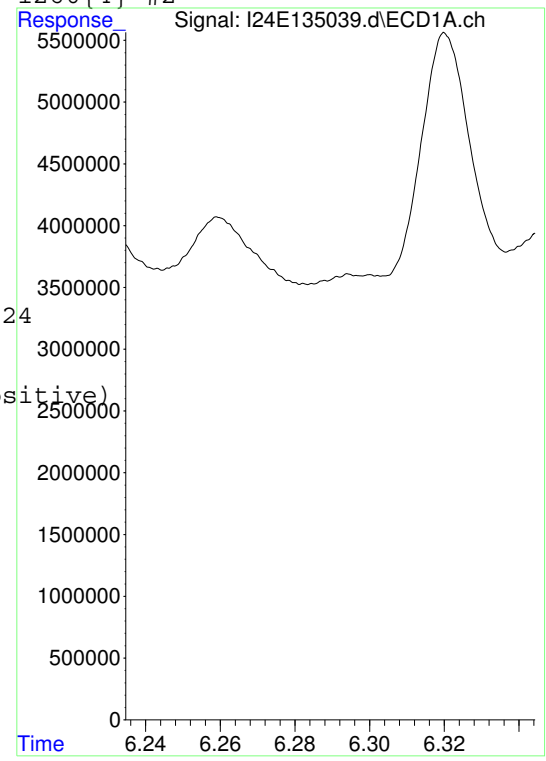
RT : 6.29
Area : 9.37958e+006
Amount: 2.74799

Manual Int. Results

Wed May 15 08:42:52 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

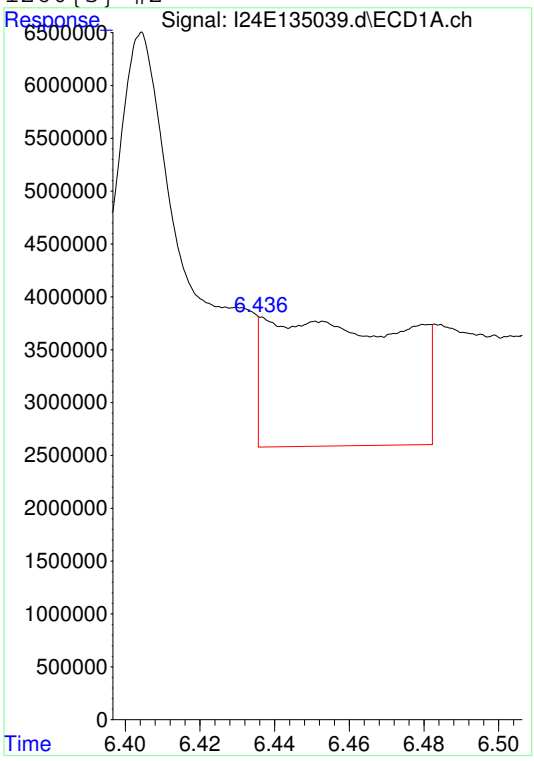
Manual Integration
1260{4} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135039.d
Acq On : 14 May 2024 8:38 pm
Operator : PJG
Sample : 24E1437-19@4X TBA
Misc :

Quant Time : Wed May 15 08:43:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1260{5} #2



Original Int. Results

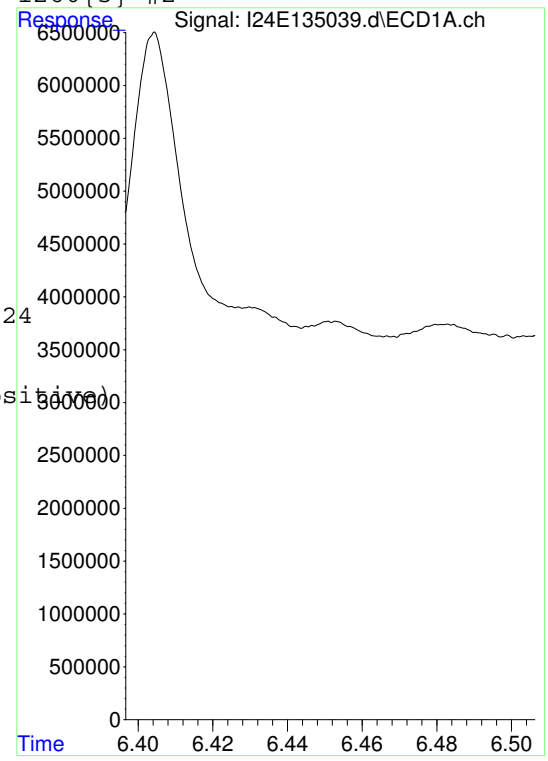
RT : 6.45
Area : 2.55674e+007
Amount: 3.54595

Manual Int. Results

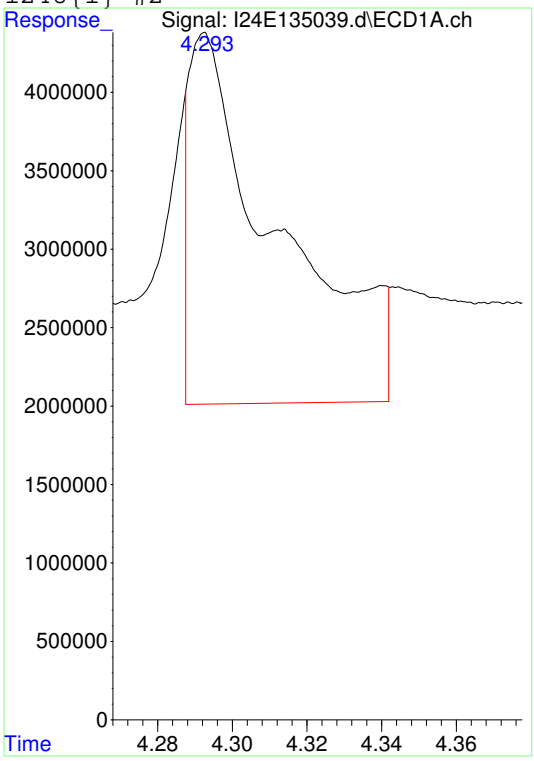
Wed May 15 08:42:52 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1260{5} #2



Original Integration
1248{1} #2



Original Int. Results

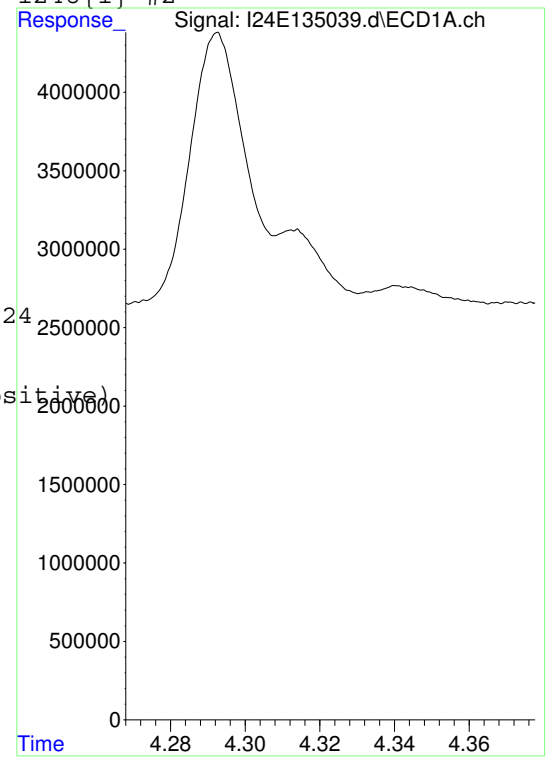
RT : 4.32
Area : 1.34742e+007
Amount: 8.52786

Manual Int. Results

Wed May 15 08:42:52 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

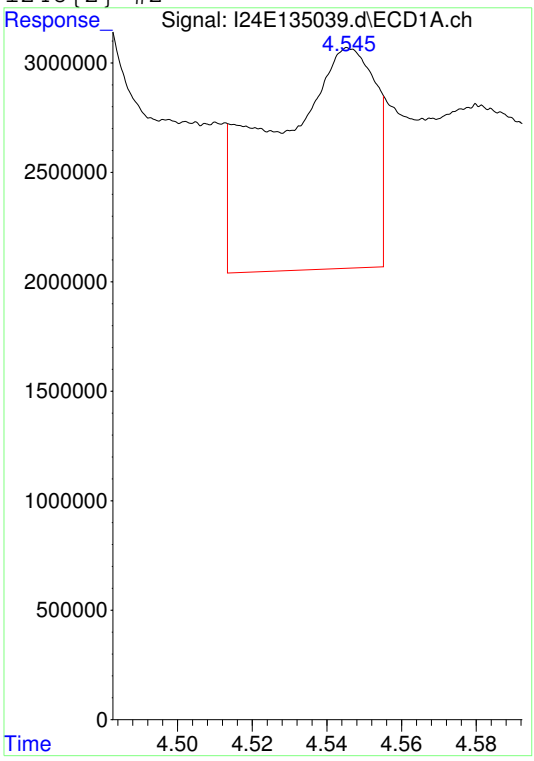
Manual Integration
1248{1} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135039.d
Acq On : 14 May 2024 8:38 pm
Operator : PJG
Sample : 24E1437-19@4X TBA
Misc :

Quant Time : Wed May 15 08:43:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1248{2} #2



Original Int. Results

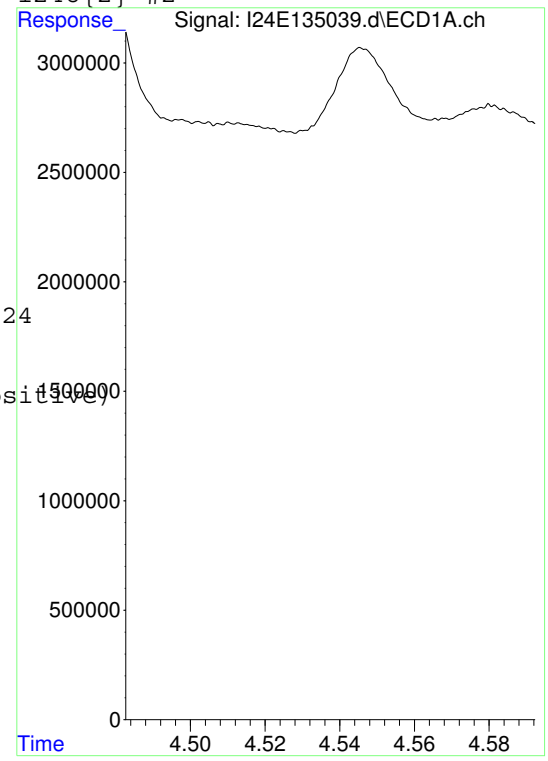
RT : 4.54
Area : 6.75064e+006
Amount: 3.32012

Manual Int. Results

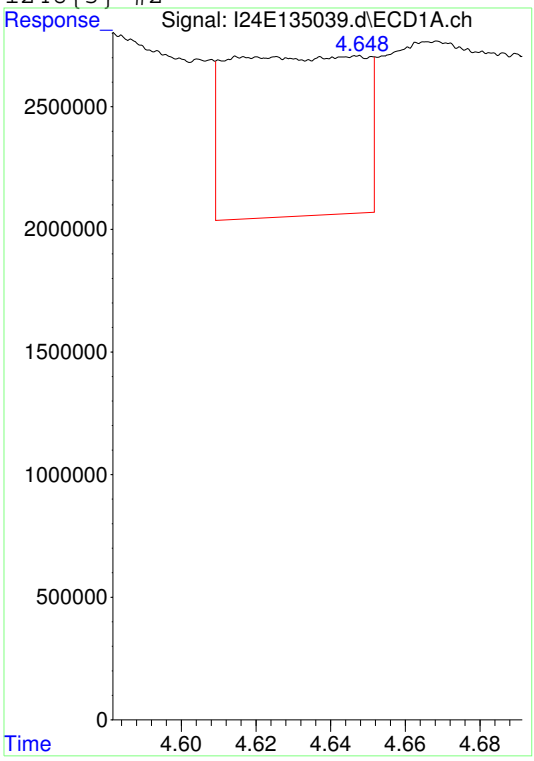
Wed May 15 08:42:52 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1248{2} #2



Original Integration
1248{3} #2



Original Int. Results

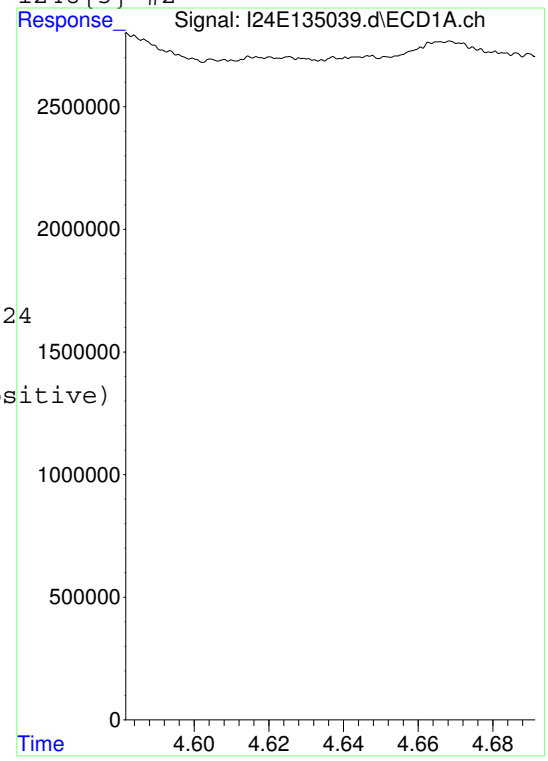
RT : 4.63
Area : 2.59141e+006
Amount: 1.12642

Manual Int. Results

Wed May 15 08:42:51 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

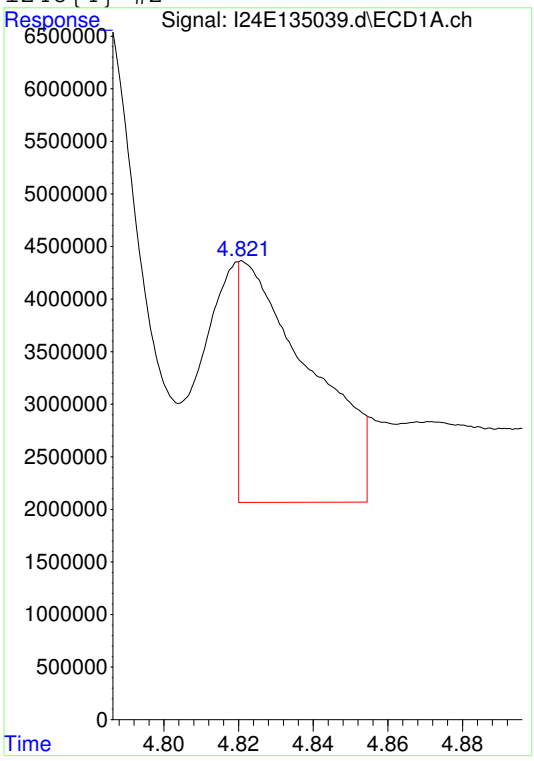
Manual Integration
1248{3} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135039.d
Acq On : 14 May 2024 8:38 pm
Operator : PJG
Sample : 24E1437-19@4X TBA
Misc :

Quant Time : Wed May 15 08:43:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1248{4} #2



Original Int. Results

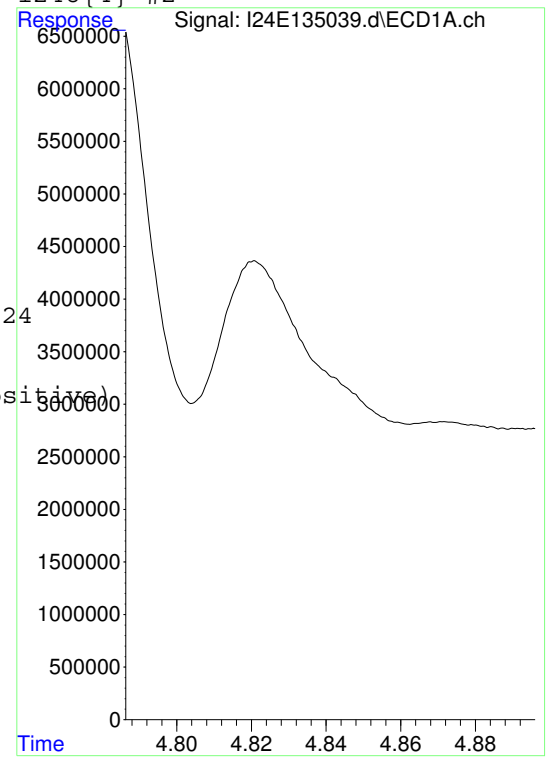
RT : 4.84
Area : 1.2345e+007
Amount: 5.14414

Manual Int. Results

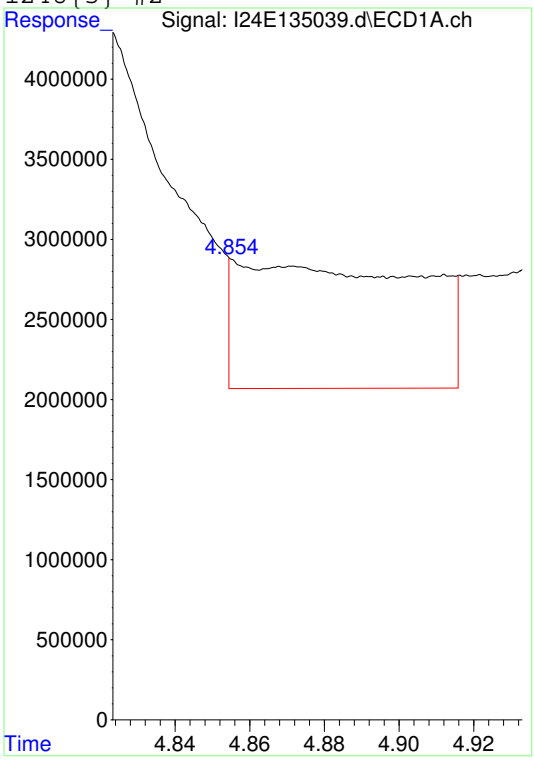
Wed May 15 08:42:51 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1248{4} #2



Original Integration
1248{5} #2



Original Int. Results

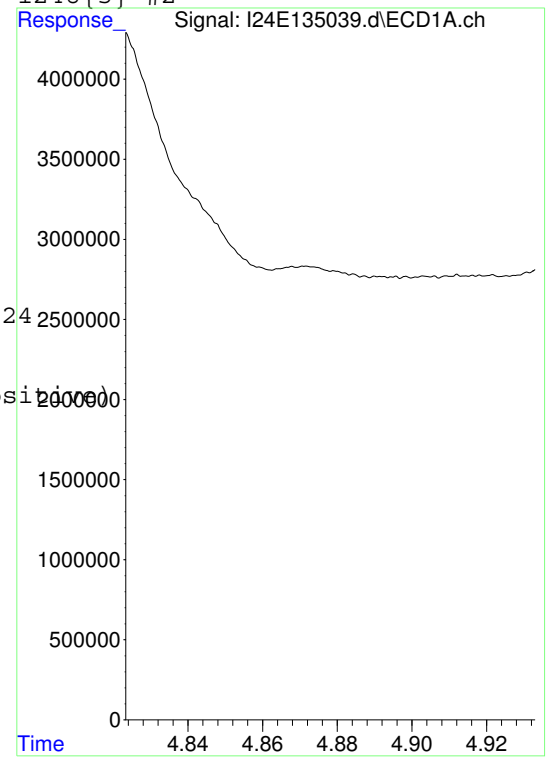
RT : 4.87
Area : 3.50913e+007
Amount: 12.571

Manual Int. Results

Wed May 15 08:42:51 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

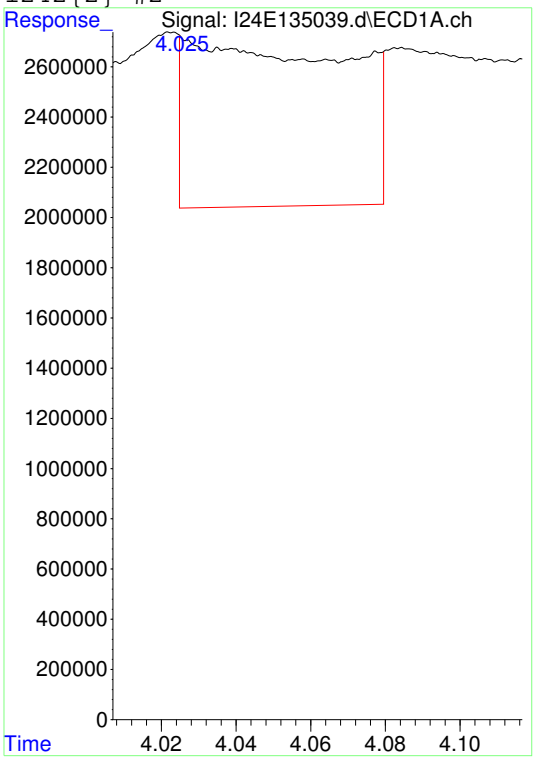
Manual Integration
1248{5} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135039.d
Acq On : 14 May 2024 8:38 pm
Operator : PJG
Sample : 24E1437-19@4X TBA
Misc :

Quant Time : Wed May 15 08:43:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1242{2} #2



Original Int. Results

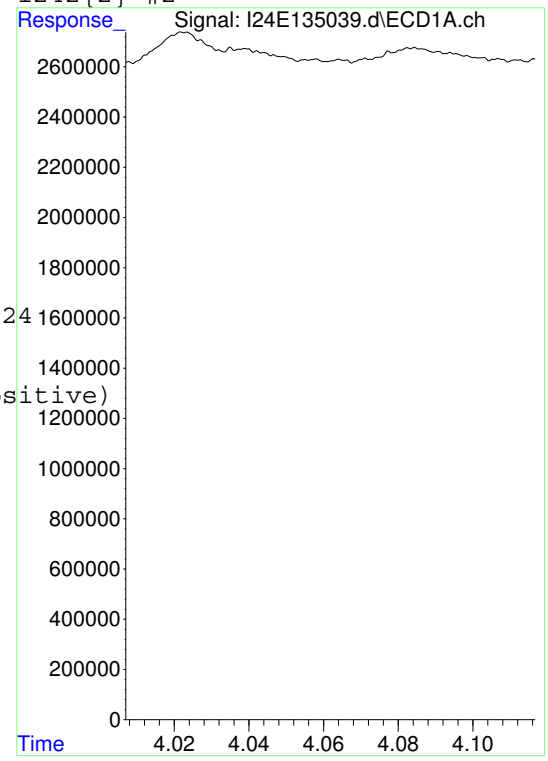
RT : 4.06
Area : 1.24972e+006
Amount: 0.553523

Manual Int. Results

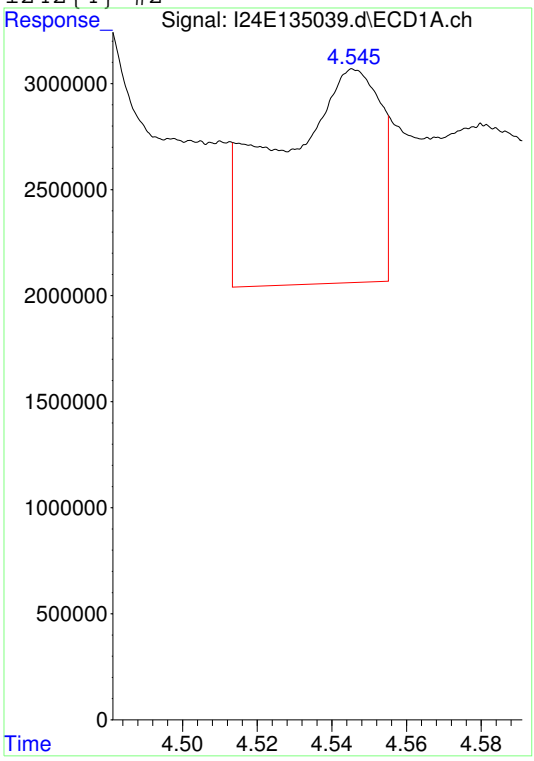
Wed May 15 08:42:51 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1242{2} #2



Original Integration
1242{4} #2



Original Int. Results

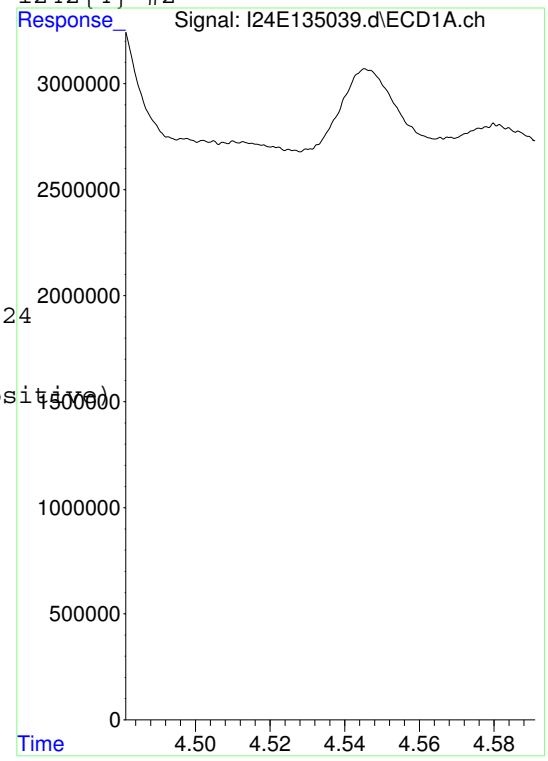
RT : 4.54
Area : 6.75064e+006
Amount: 5.39272

Manual Int. Results

Wed May 15 08:42:50 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

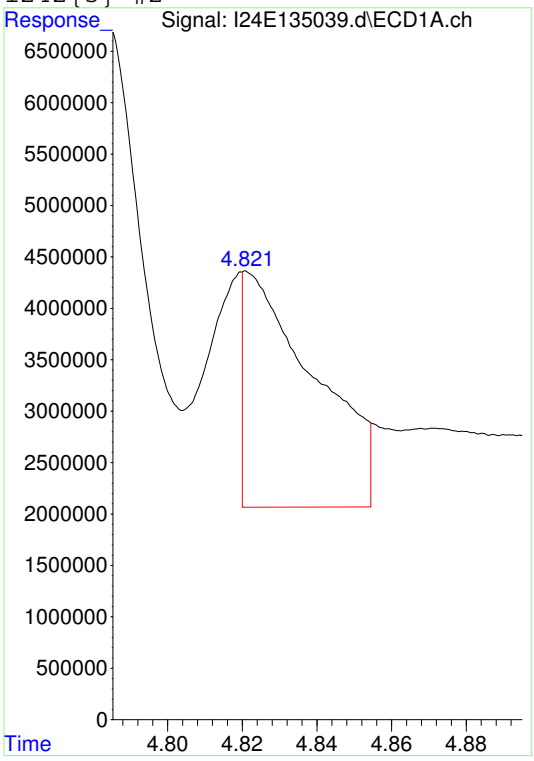
Manual Integration
1242{4} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135039.d
Acq On : 14 May 2024 8:38 pm
Operator : PJG
Sample : 24E1437-19@4X TBA
Misc :

Quant Time : Wed May 15 08:43:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1242{5} #2



Original Int. Results

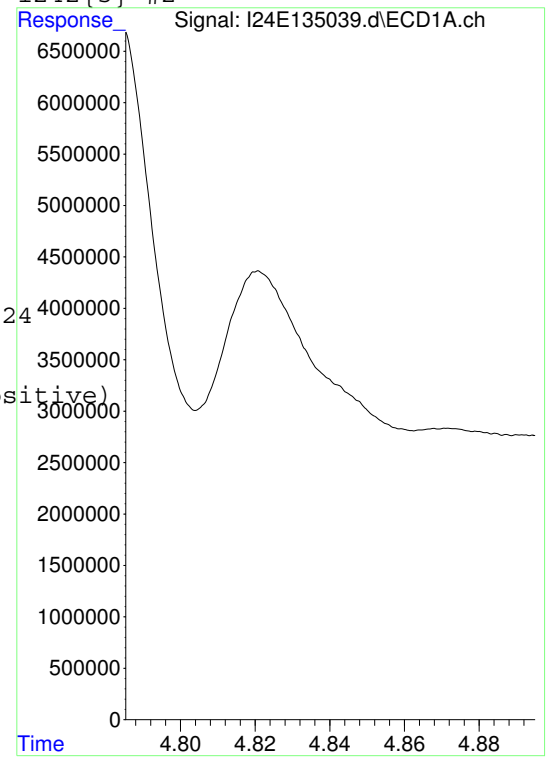
RT : 4.84
Area : 1.2345e+007
Amount: 9.94429

Manual Int. Results

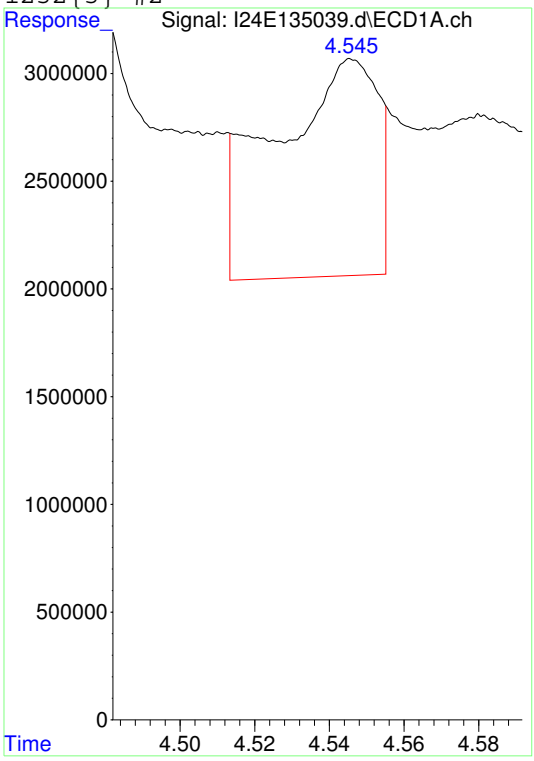
Wed May 15 08:42:50 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1242{5} #2



Original Integration
1232{3} #2



Original Int. Results

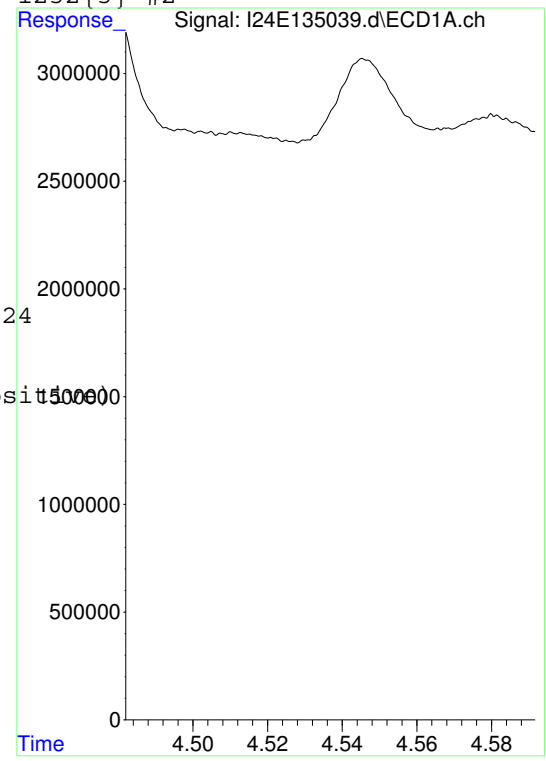
RT : 4.54
Area : 6.75064e+006
Amount: 9.5134

Manual Int. Results

Wed May 15 08:42:49 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

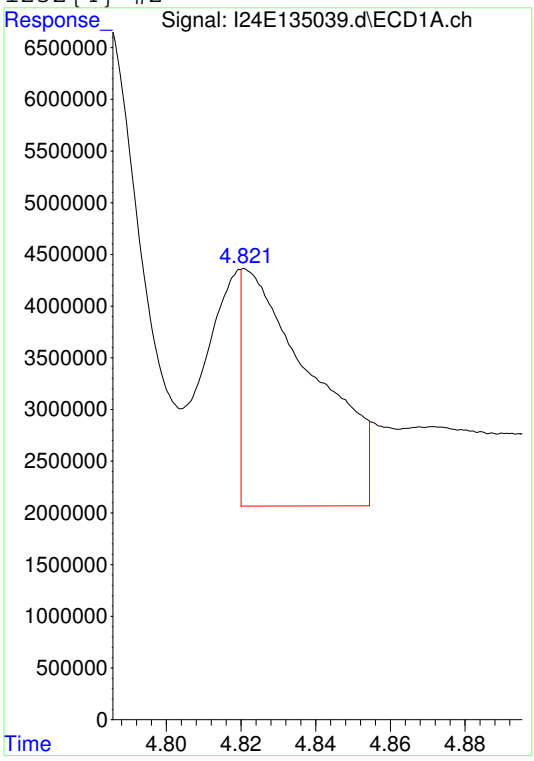
Manual Integration
1232{3} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135039.d
Acq On : 14 May 2024 8:38 pm
Operator : PJG
Sample : 24E1437-19@4X TBA
Misc :

Quant Time : Wed May 15 08:43:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1232{4} #2



Original Int. Results

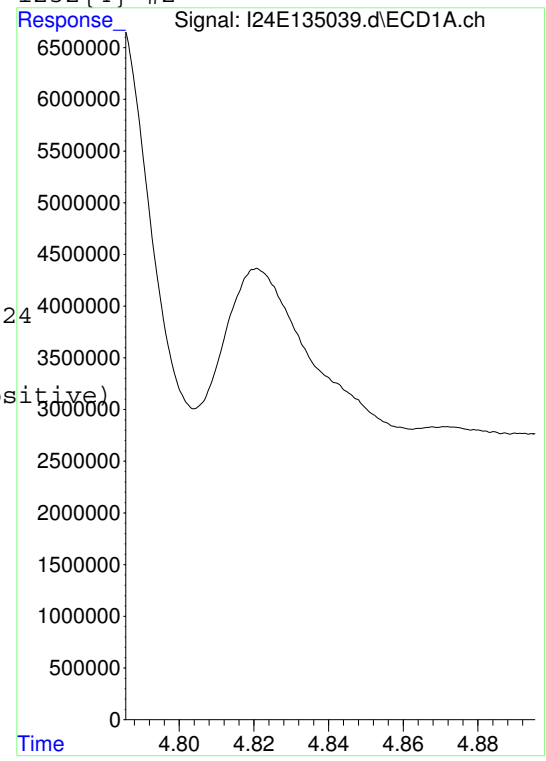
RT : 4.84
Area : 1.2345e+007
Amount: 16.8519

Manual Int. Results

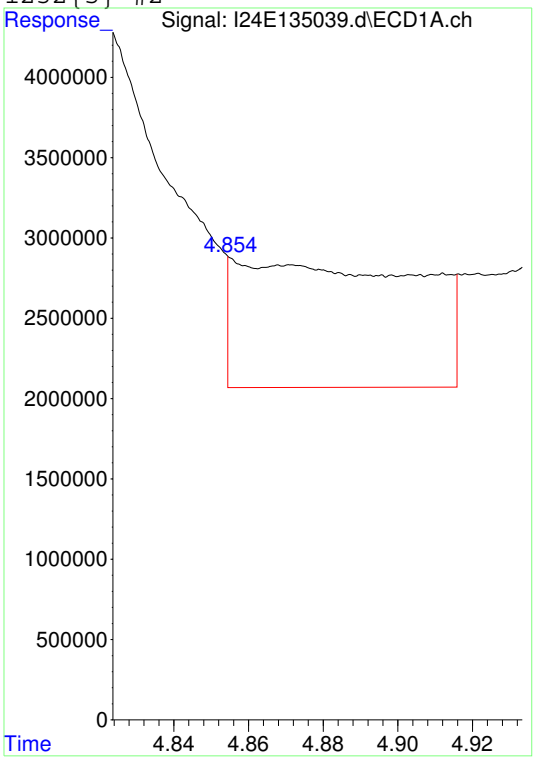
Wed May 15 08:42:49 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1232{4} #2



Original Integration
1232{5} #2



Original Int. Results

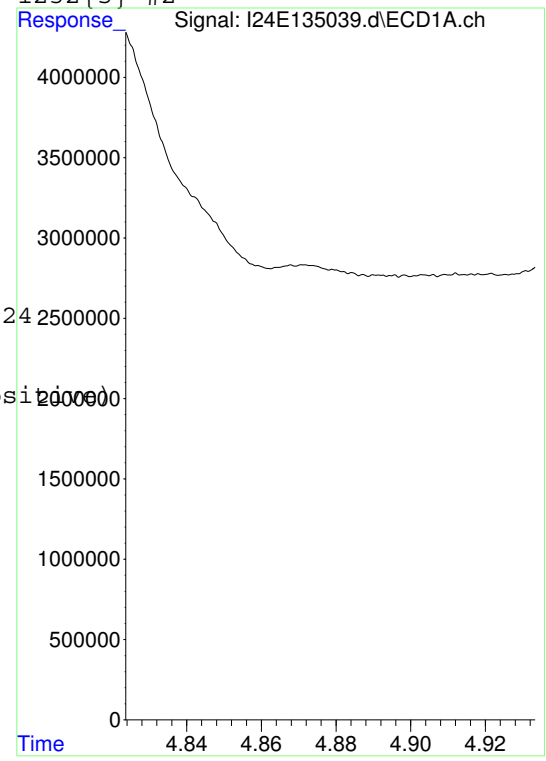
RT : 4.87
Area : 3.50913e+007
Amount: 39.976

Manual Int. Results

Wed May 15 08:42:49 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

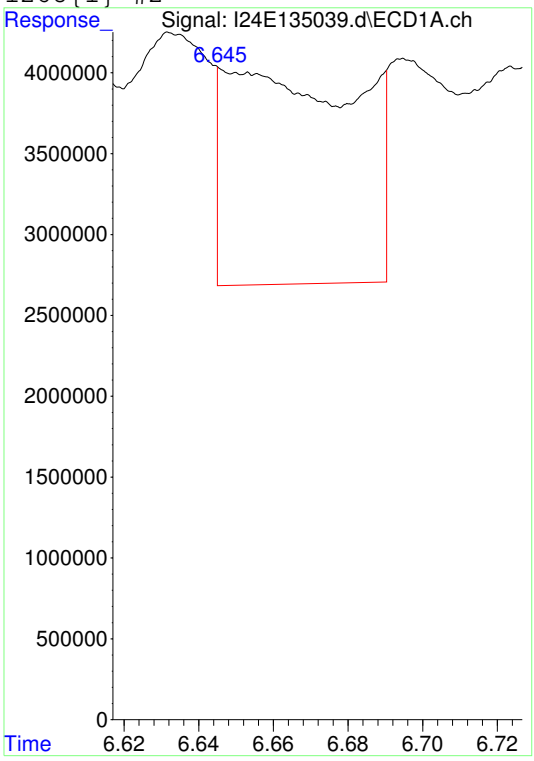
Manual Integration
1232{5} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135039.d
Acq On : 14 May 2024 8:38 pm
Operator : PJG
Sample : 24E1437-19@4X TBA
Misc :

Quant Time : Wed May 15 08:43:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1268{1} #2



Original Int. Results

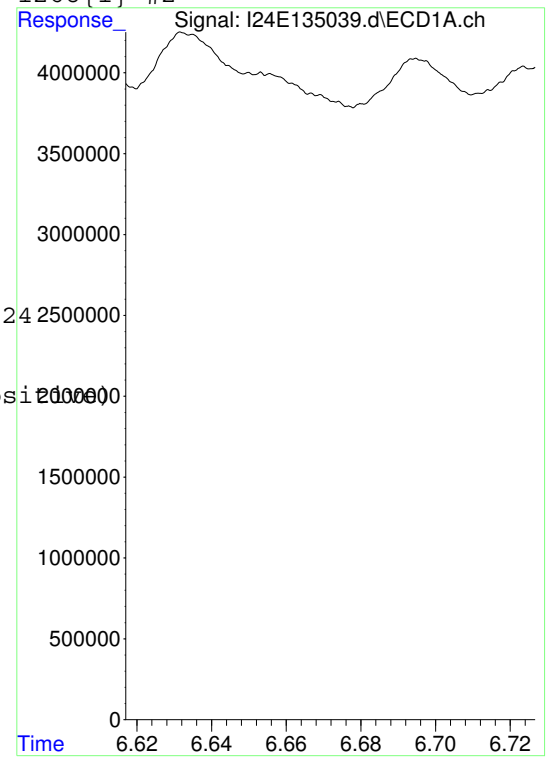
RT : 6.68
Area : 2.10328e+007
Amount: 2.5586

Manual Int. Results

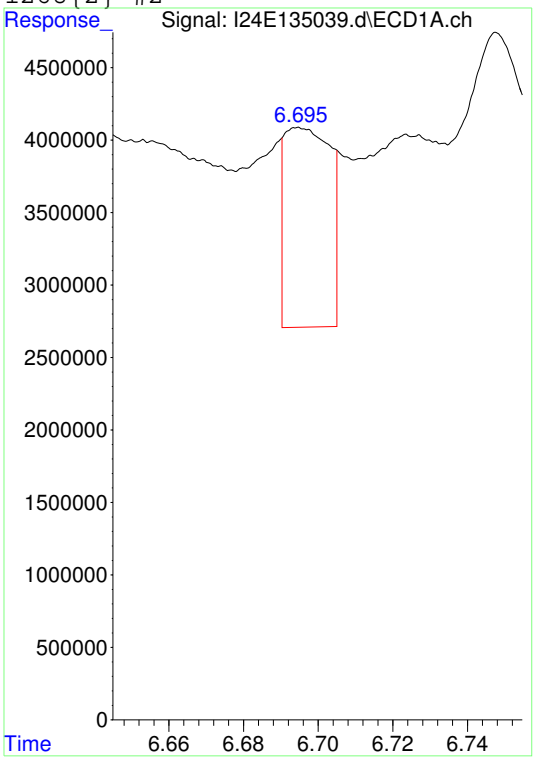
Wed May 15 08:42:49 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1268{1} #2



Original Integration
1268{2} #2



Original Int. Results

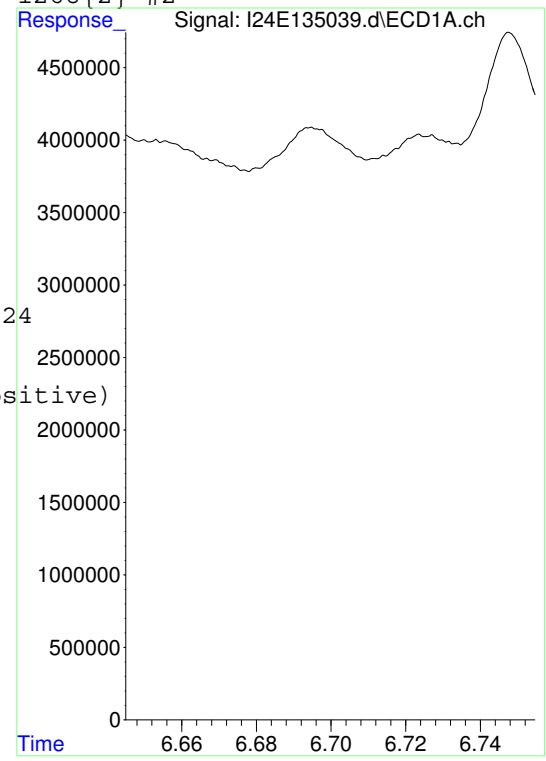
RT : 6.70
Area : 3.02142e+006
Amount: 0.37622

Manual Int. Results

Wed May 15 08:42:49 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

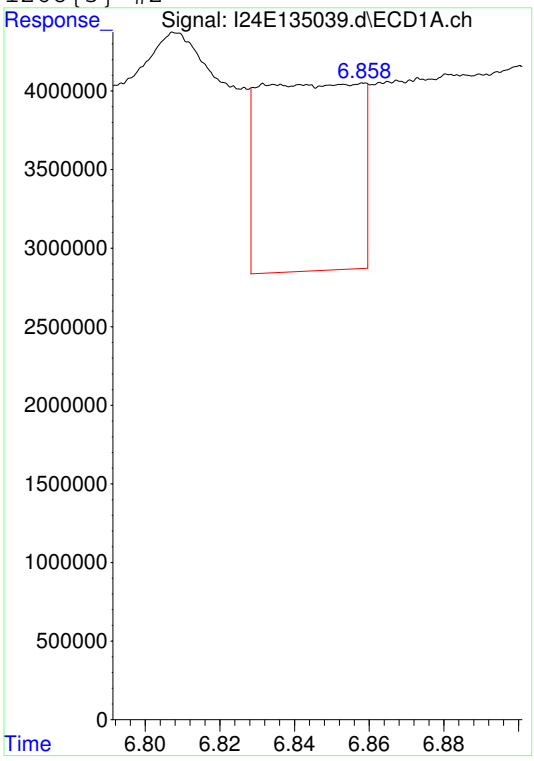
Manual Integration
1268{2} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135039.d
Acq On : 14 May 2024 8:38 pm
Operator : PJG
Sample : 24E1437-19@4X TBA
Misc :

Quant Time : Wed May 15 08:43:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1268{3} #2



Original Int. Results

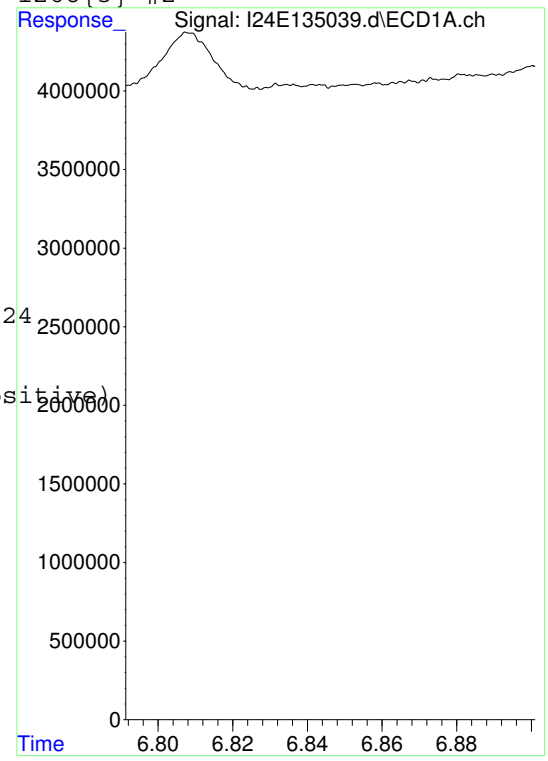
RT : 6.84
Area : 5.69831e+006
Amount: 0.765128

Manual Int. Results

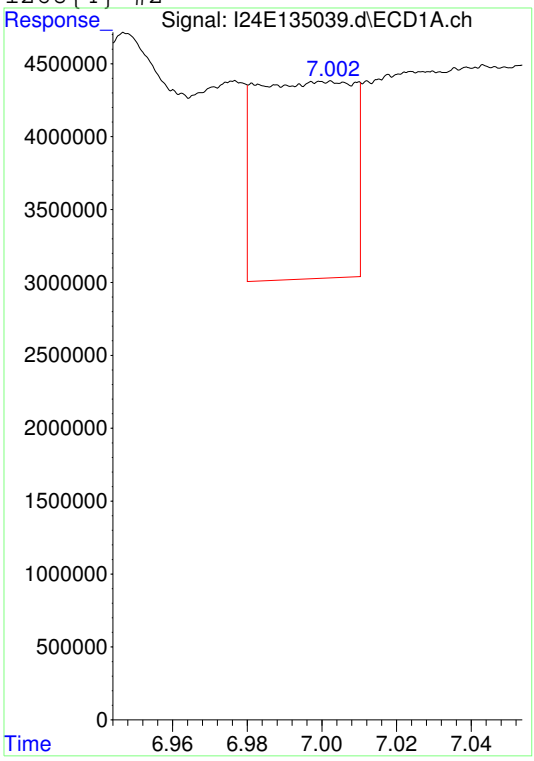
Wed May 15 08:42:48 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1268{3} #2



Original Integration
1268{4} #2



Original Int. Results

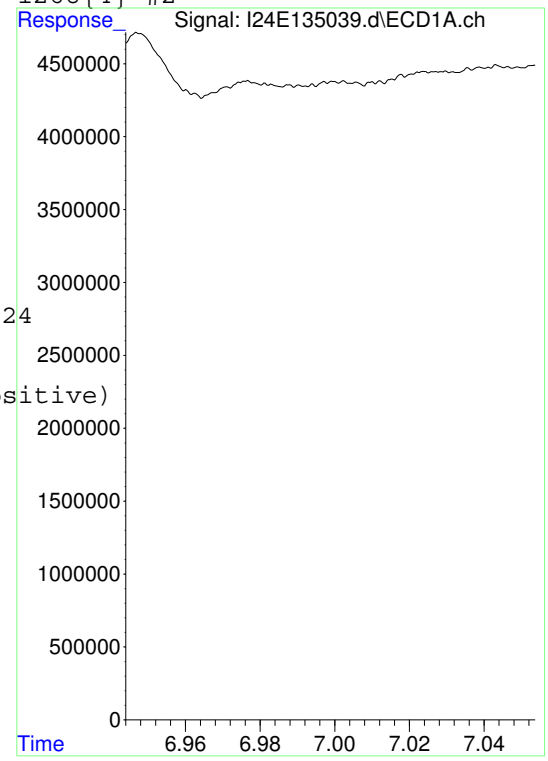
RT : 7.00
Area : 3.60292e+006
Amount: 1.68967

Manual Int. Results

Wed May 15 08:42:48 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

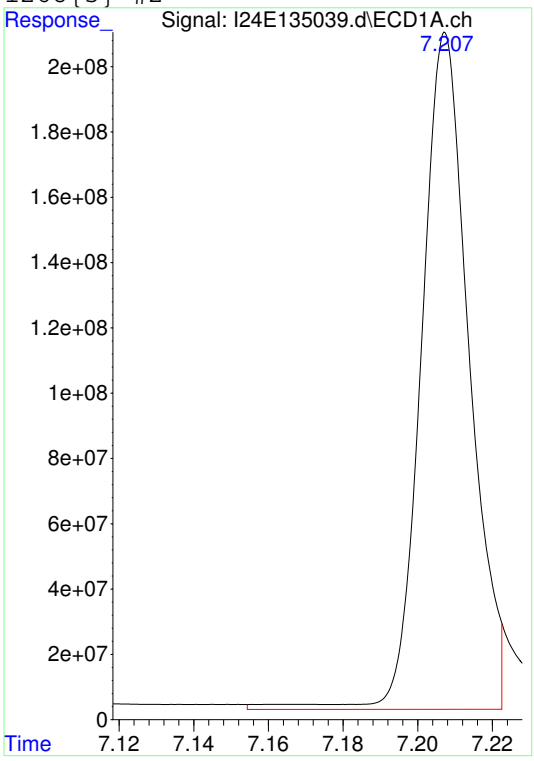
Manual Integration
1268{4} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135039.d
Acq On : 14 May 2024 8:38 pm
Operator : PJG
Sample : 24E1437-19@4X TBA
Misc :

Quant Time : Wed May 15 08:43:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1268{5} #2



Original Int. Results

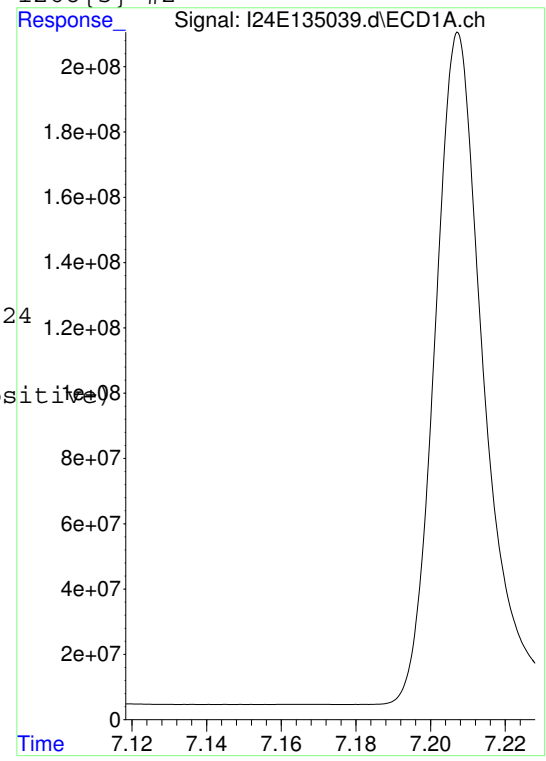
RT : 7.17
Area : 2.01282e+007
Amount: 0.992404

Manual Int. Results

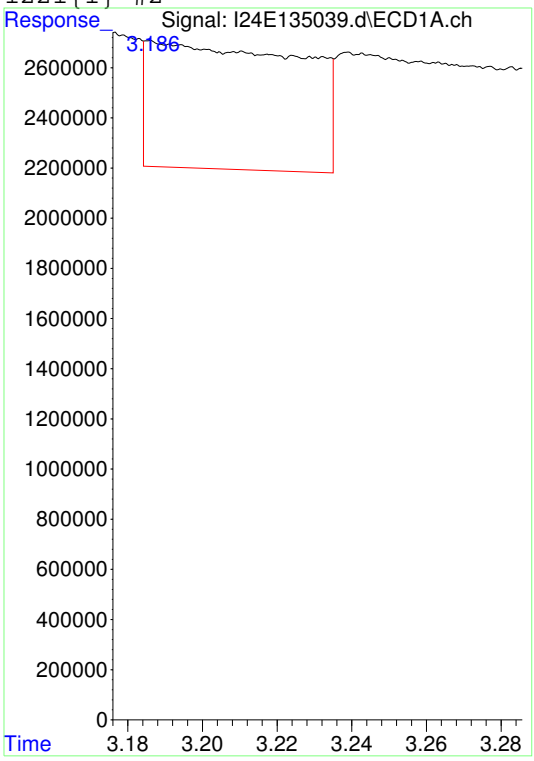
Wed May 15 08:42:48 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1268{5} #2



Original Integration
1221{1} #2



Original Int. Results

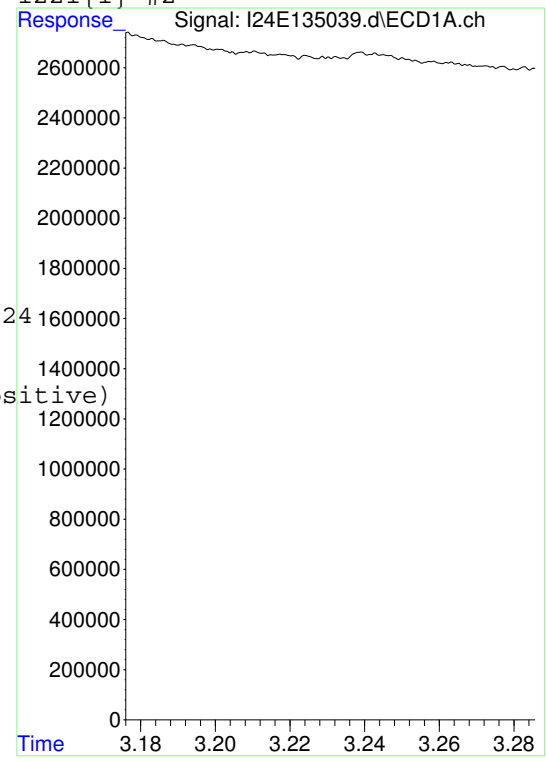
RT : 3.20
Area : 1.6721e+006
Amount: 2.5761

Manual Int. Results

Wed May 15 08:42:48 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

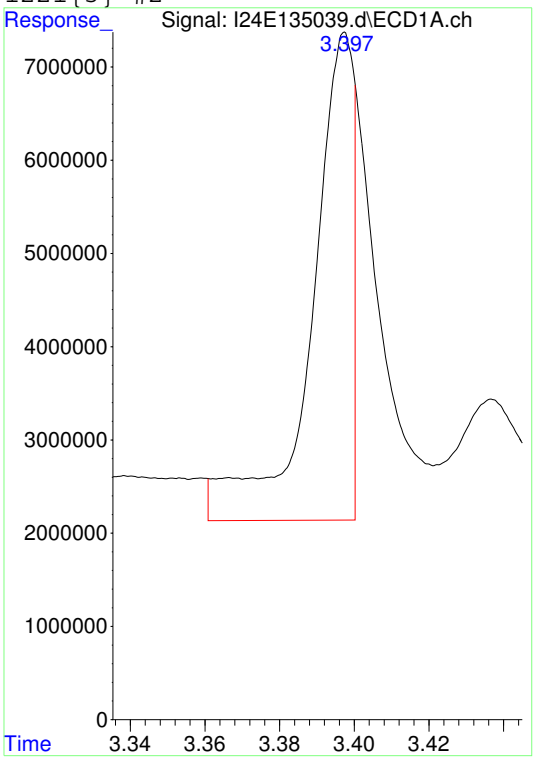
Manual Integration
1221{1} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135039.d
Acq On : 14 May 2024 8:38 pm
Operator : PJG
Sample : 24E1437-19@4X TBA
Misc :

Quant Time : Wed May 15 08:43:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1221{3} #2



Original Int. Results

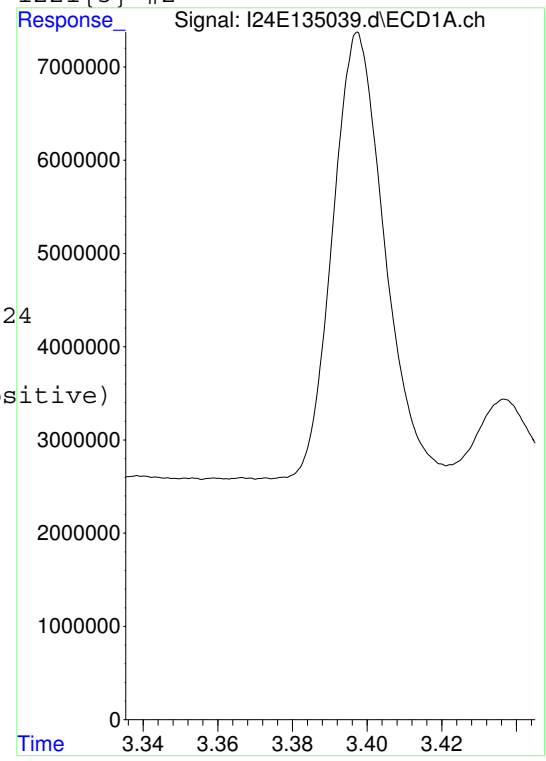
RT : 3.38
Area : 5.4067e+006
Amount: 3.60127

Manual Int. Results

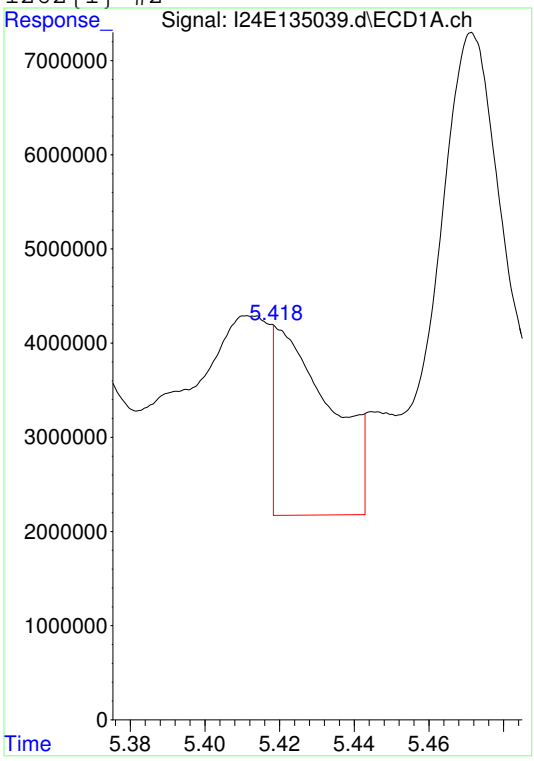
Wed May 15 08:42:47 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1221{3} #2



Original Integration
1262{1} #2



Original Int. Results

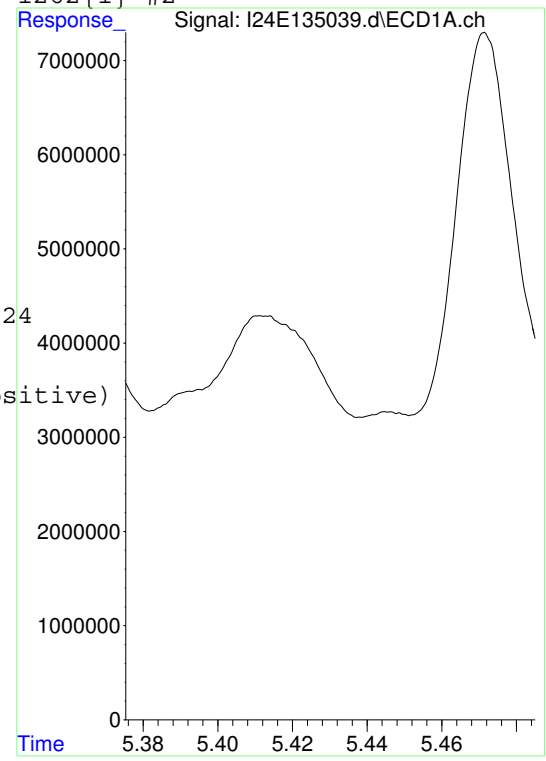
RT : 5.43
Area : 1.14969e+007
Amount: 8.11148

Manual Int. Results

Wed May 15 08:42:47 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

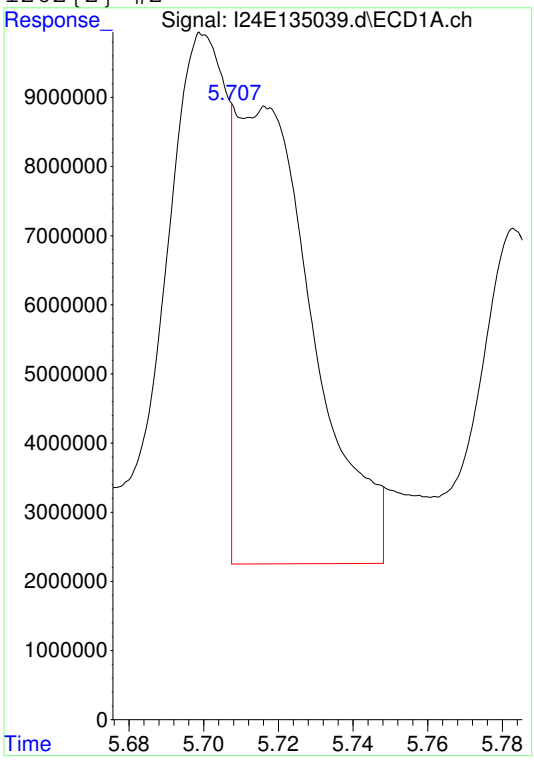
Manual Integration
1262{1} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135039.d
Acq On : 14 May 2024 8:38 pm
Operator : PJG
Sample : 24E1437-19@4X TBA
Misc :

Quant Time : Wed May 15 08:43:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1262{2} #2



Original Int. Results

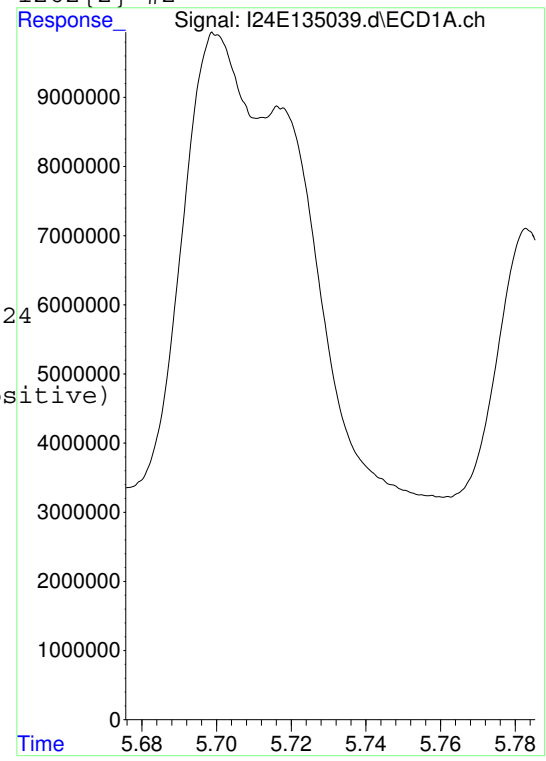
RT : 5.73
Area : 5.70889e+007
Amount: 19.6723

Manual Int. Results

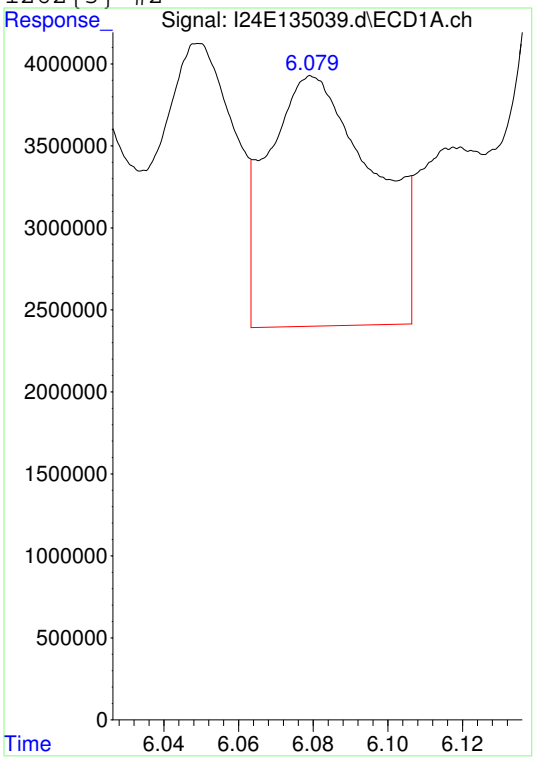
Wed May 15 08:42:47 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1262{2} #2



Original Integration
1262{3} #2



Original Int. Results

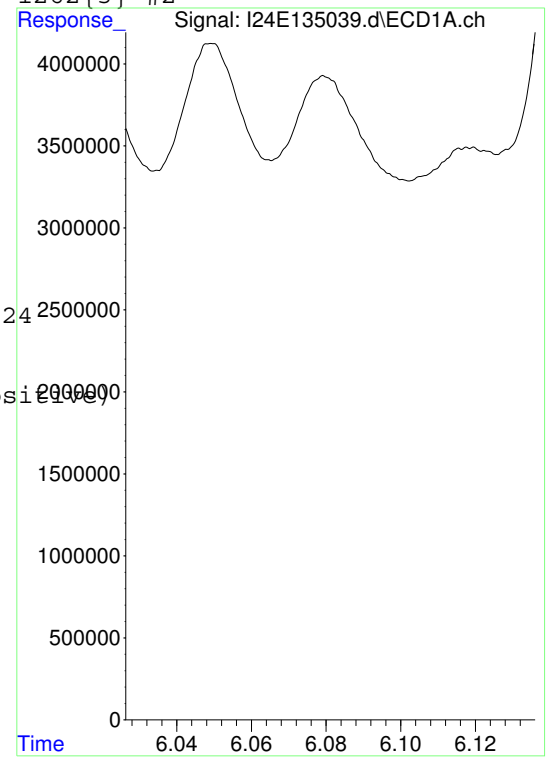
RT : 6.08
Area : 1.63212e+007
Amount: 4.61643

Manual Int. Results

Wed May 15 08:42:47 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

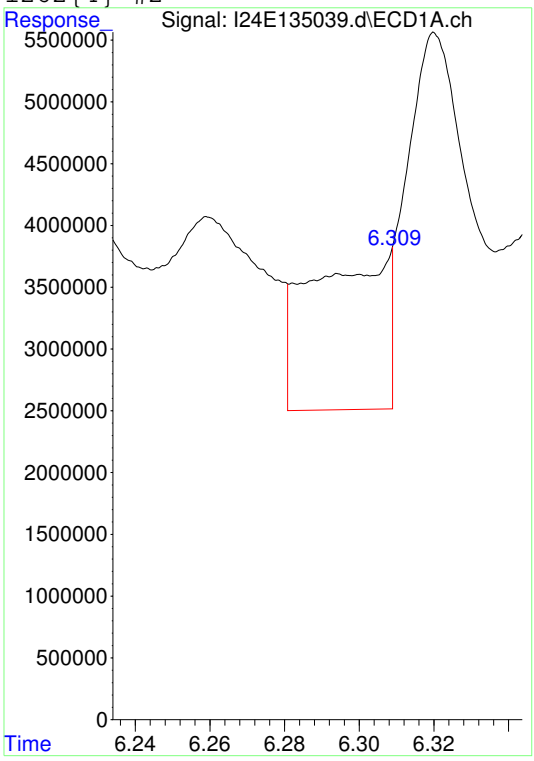
Manual Integration
1262{3} #2



Data Path : C:\msdchem\1\data\051424\
Data File : I24E135039.d
Acq On : 14 May 2024 8:38 pm
Operator : PJG
Sample : 24E1437-19@4X TBA
Misc :

Quant Time : Wed May 15 08:43:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1262{4} #2



Original Int. Results

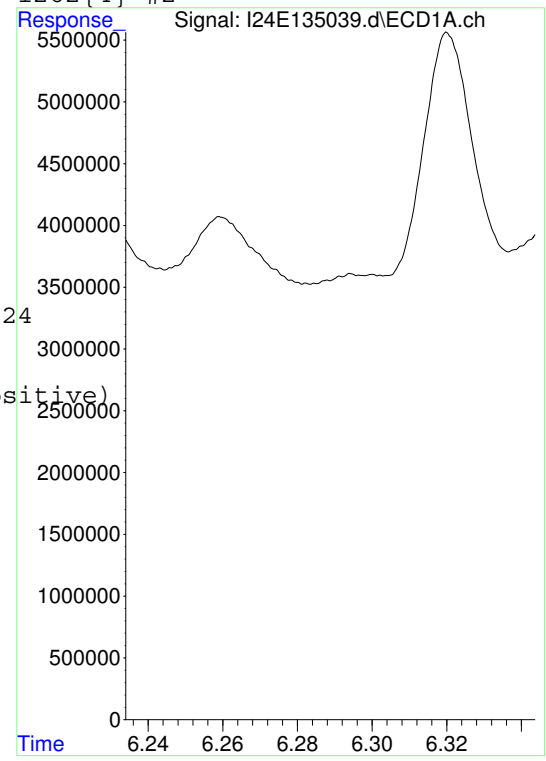
RT : 6.29
Area : 9.37958e+006
Amount: 2.76296

Manual Int. Results

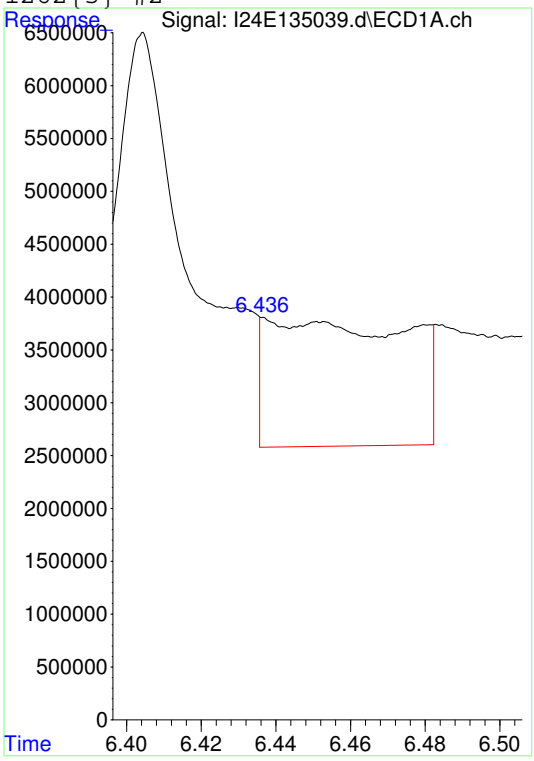
Wed May 15 08:42:47 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1262{4} #2



Original Integration
1262{5} #2



Original Int. Results

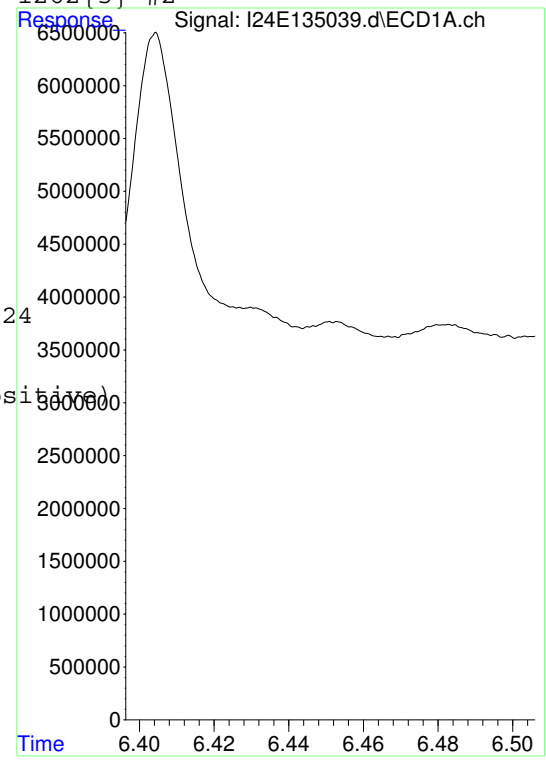
RT : 6.45
Area : 2.55674e+007
Amount: 3.55362

Manual Int. Results

Wed May 15 08:42:46 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1262{5} #2



QC DATA

2 - FORM II

SYSTEM MONITORING COMPOUND SUMMARY

SW-846 8082A

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Instrument:	ECD 9

	DCB 1 (30% - 150%)	DCB 2 (30% - 150%)	TCX 1 (30% - 150%)	TCX 2 (30% - 150%)
24E1437-02	69.3	73.3	78.3	81.5
24E1437-04	85.6	87.8	93.4	96.8
24E1437-06	81.8	82.3	83.4	87.6
24E1437-12	89.9	89.8	90.6	94.1
24E1437-17	82.0	82.2	85.0	88.4
24E1437-19	74.4	74.0	77.4	80.0
B374045-BLK1	68.3	71.9	66.4	73.2
B374045-BS1	81.1	86.8	81.9	90.7
B374045-BSD1	73.3	78.0	75.3	83.4
B374045-MS1	80.2	81.2	82.5	85.3
B374045-MSD1	87.0	87.8	88.0	91.5

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SB1A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Analysis:	SW-846 8082A
Batch:	B374045	Preparation:	SW-846 3546
% Solids:	72.51	Laboratory ID:	B374045-MS1
Initial/Final:	10.65 g / 10 mL	Sample Lab ID:	24E1437-06
Column:	1		

ANALYTE	SPIKE ADDED (mg/Kg dry)	SAMPLE CONCENTRATION (mg/Kg dry)	MS CONCENTRATION (mg/Kg dry)	MS % REC.	QC LIMITS REC.
Aroclor-1016	0.259	ND	0.19	75.1	40 - 140
Aroclor-1260	0.259	ND	0.19	75.0	40 - 140

ANALYTE	SPIKE ADDED (mg/Kg dry)	MSD CONCENTRATION (mg/Kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1016	0.259	0.21	81.1	7.76	30	40 - 140
Aroclor-1260	0.259	0.21	81.4	8.28	30	40 - 140

3 - FORM III

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SB1A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Analysis:	SW-846 8082A
Batch:	B374045	Preparation:	SW-846 3546
% Solids:	72.51	Laboratory ID:	B374045-MS1
Initial/Final:	10.65 g / 10 mL	Sample Lab ID:	24E1437-06
Column:	2		

ANALYTE	SPIKE ADDED (mg/Kg dry)	SAMPLE CONCENTRATION (mg/Kg dry)	MS CONCENTRATION (mg/Kg dry)	MS % REC.	QC LIMITS REC.
Aroclor-1016 [2C]	0.259	ND	0.19	74.5	40 - 140
Aroclor-1260 [2C]	0.259	ND	0.19	73.0	40 - 140

ANALYTE	SPIKE ADDED (mg/Kg dry)	MSD CONCENTRATION (mg/Kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1016 [2C]	0.259	0.21	80.4	7.54	30	40 - 140
Aroclor-1260 [2C]	0.259	0.20	77.8	6.31	30	40 - 140

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

SW-846 8082A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Preparation:	SW-846 3546
Batch:	B374045	Laboratory ID:	B374045-BS1
Column:	1	Initial/Final:	10.08 g / 10 mL

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCS CONCENTRATION (mg/Kg wet)	LCS % REC.	QC LIMITS REC.
Aroclor-1016	0.198	0.14	70.3	40 - 140
Aroclor-1260	0.198	0.14	68.9	40 - 140

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCSD CONCENTRATION (mg/Kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1016	0.198	0.13	65.3	7.27	30	40 - 140
Aroclor-1260	0.198	0.13	63.8	7.67	30	40 - 140

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

SW-846 8082A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Preparation:	SW-846 3546
Batch:	B374045	Laboratory ID:	B374045-BS1
Column:	2	Initial/Final:	10.08 g / 10 mL

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCS CONCENTRATION (mg/Kg wet)	LCS % REC.	QC LIMITS REC.
Aroclor-1016 [2C]	0.198	0.14	72.4	40 - 140
Aroclor-1260 [2C]	0.198	0.14	69.2	40 - 140

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCSD CONCENTRATION (mg/Kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1016 [2C]	0.198	0.13	67.3	7.33	30	40 - 140
Aroclor-1260 [2C]	0.198	0.13	64.2	7.58	30	40 - 140

4 - FORM IV
METHOD BLANK SUMMARY

SW-846 8082A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Blank ID:	B374045-BLK1	Batch:	B374045
Prepared:	05/10/2024 15:04		

Client Sample ID	Laboratory Sample ID	Lab File ID	Time Analyzed
LCS	B374045-BS1	I24E132012.d	10:20
LCS Dup	B374045-BSD1	I24E132013.d	10:32
CG-2	24E1437-02	I24E135034.d	19:13
B1A	24E1437-04	I24E135035.d	19:30
SB1A	24E1437-06	I24E135036.d	19:47
SB4A	24E1437-12	I24E135037.d	20:04
SB7	24E1437-17	I24E135038.d	20:21
DUP	24E1437-19	I24E135039.d	20:38
Matrix Spike	B374045-MS1	I24E135040.d	20:55
Matrix Spike Dup	B374045-MSD1	I24E135041.d	21:12

CALIBRATION DATA

6 - FORM VI

3258

INITIAL CALIBRATION DATA SHEET

SW-846 8082A

Client: NYS Division of Environmental Remediation SDG: 24E1437

Project: Tivoli Memorial Park- CO 149634

Calibration: 2400478 Instrument: ECD 9

Calibration Date: 4/28/2024 8:52:29AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
Aroclor-1016 (1)												
Aroclor-1016 (2)												
Aroclor-1016 (3)												
Aroclor-1016 (4)												
Aroclor-1016 (5)												
Aroclor-1016 (1) [2C]												
Aroclor-1016 (2) [2C]												
Aroclor-1016 (3) [2C]												
Aroclor-1016 (4) [2C]												
Aroclor-1016 (5) [2C]												
Aroclor-1221 (1)												
Aroclor-1221 (2)												
Aroclor-1221 (3)												
Aroclor-1221 (1) [2C]												
Aroclor-1221 (2) [2C]												
Aroclor-1221 (3) [2C]												
Aroclor-1232 (1)												
Aroclor-1232 (2)												
Aroclor-1232 (3)												
Aroclor-1232 (4)												
Aroclor-1232 (5)												
Aroclor-1232 (1) [2C]												
Aroclor-1232 (2) [2C]												
Aroclor-1232 (3) [2C]												
Aroclor-1232 (4) [2C]												
Aroclor-1232 (5) [2C]												
Aroclor-1242 (1)												
Aroclor-1242 (2)												
Aroclor-1242 (3)												
Aroclor-1242 (4)												
Aroclor-1242 (5)												

6 - FORM VI

3259

INITIAL CALIBRATION DATA SHEET

SW-846 8082A

Client: NYS Division of Environmental Remediation SDG: 24E1437

Project: Tivoli Memorial Park- CO 149634

Calibration: 2400478 Instrument: ECD 9

Calibration Date: 4/28/2024 8:52:29AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
Aroclor-1242 (1) [2C]												
Aroclor-1242 (2) [2C]												
Aroclor-1242 (3) [2C]												
Aroclor-1242 (4) [2C]												
Aroclor-1242 (5) [2C]												
Aroclor-1248 (1)	10	2262359	20	2084251	50	1959679	100	1793000	200	1670000	500	1291600
Aroclor-1248 (2)	10	3059881	20	2861949	50	2664000	100	2469000	200	2297000	500	2023600
Aroclor-1248 (3)	10	2062414	20	1962970	50	1845566	100	1711000	200	1600000	500	1415400
Aroclor-1248 (4)	10	3296632	20	3271027	50	3072000	100	2910000	200	2745000	500	2477600
Aroclor-1248 (5)	10	3249565	20	3260090	50	3084000	100	2824000	200	2620000	500	2118400
Aroclor-1248 (1) [2C]	10	1942822	20	1781314	50	1607834	100	1483000	200	1402000	500	1262600
Aroclor-1248 (2) [2C]	10	2378876	20	2228970	50	2070000	100	1942000	200	1853000	500	1726800
Aroclor-1248 (3) [2C]	10	2671648	20	2523669	50	2352000	100	2206000	200	2096500	500	1953400
Aroclor-1248 (4) [2C]	10	2741670	20	2581073	50	2428000	100	2300000	200	2235500	500	2112000
Aroclor-1248 (5) [2C]	10	3233407	20	3033088	50	2826000	100	2679000	200	2581500	500	2395200
Aroclor-1254 (1)												
Aroclor-1254 (2)												
Aroclor-1254 (3)												
Aroclor-1254 (4)												
Aroclor-1254 (5)												
Aroclor-1254 (1) [2C]												
Aroclor-1254 (2) [2C]												
Aroclor-1254 (3) [2C]												
Aroclor-1254 (4) [2C]												
Aroclor-1254 (5) [2C]												
Aroclor-1260 (1)												
Aroclor-1260 (2)												
Aroclor-1260 (3)												
Aroclor-1260 (4)												
Aroclor-1260 (5)												
Aroclor-1260 (1) [2C]												

6 - FORM VI

3260

INITIAL CALIBRATION DATA SHEET

SW-846 8082A

Client: NYS Division of Environmental Remediation SDG: 24E1437

Project: Tivoli Memorial Park- CO 149634

Calibration: 2400478 Instrument: ECD 9

Calibration Date: 4/28/2024 8:52:29AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
Aroclor-1260 (2) [2C]												
Aroclor-1260 (3) [2C]												
Aroclor-1260 (4) [2C]												
Aroclor-1260 (5) [2C]												
Aroclor-1262 (1)												
Aroclor-1262 (2)												
Aroclor-1262 (3)												
Aroclor-1262 (4)												
Aroclor-1262 (5)												
Aroclor-1262 (1) [2C]												
Aroclor-1262 (2) [2C]												
Aroclor-1262 (3) [2C]												
Aroclor-1262 (4) [2C]												
Aroclor-1262 (5) [2C]												
Aroclor-1268 (1)												
Aroclor-1268 (2)												
Aroclor-1268 (3)												
Aroclor-1268 (4)												
Aroclor-1268 (5)												
Aroclor-1268 (1) [2C]												
Aroclor-1268 (2) [2C]												
Aroclor-1268 (3) [2C]												
Aroclor-1268 (4) [2C]												
Aroclor-1268 (5) [2C]												
Decachlorobiphenyl												
Decachlorobiphenyl [2C]												
Tetrachloro-m-xylene												
Tetrachloro-m-xylene [2C]												

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

SW-846 8082A

Client: NYS Division of Environmental Remediation SDG: 24E1437

Project: Tivoli Memorial Park- CO 149634

Calibration: 2400478 Instrument: ECD 9

Calibration Date: 4/28/2024 8:52:29AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
		RF		RF		RF		RF		RF		RF
Aroclor-1016 (1)												
Aroclor-1016 (2)												
Aroclor-1016 (3)												
Aroclor-1016 (4)												
Aroclor-1016 (5)												
Aroclor-1016 (1) [2C]												
Aroclor-1016 (2) [2C]												
Aroclor-1016 (3) [2C]												
Aroclor-1016 (4) [2C]												
Aroclor-1016 (5) [2C]												
Aroclor-1221 (1)												
Aroclor-1221 (2)												
Aroclor-1221 (3)												
Aroclor-1221 (1) [2C]												
Aroclor-1221 (2) [2C]												
Aroclor-1221 (3) [2C]												
Aroclor-1232 (1)												
Aroclor-1232 (2)												
Aroclor-1232 (3)												
Aroclor-1232 (4)												
Aroclor-1232 (5)												
Aroclor-1232 (1) [2C]												
Aroclor-1232 (2) [2C]												
Aroclor-1232 (3) [2C]												
Aroclor-1232 (4) [2C]												
Aroclor-1232 (5) [2C]												
Aroclor-1242 (1)												
Aroclor-1242 (2)												
Aroclor-1242 (3)												
Aroclor-1242 (4)												
Aroclor-1242 (5)												

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

SW-846 8082A

Client: NYS Division of Environmental Remediation SDG: 24E1437

Project: Tivoli Memorial Park- CO 149634

Calibration: 2400478 Instrument: ECD 9

Calibration Date: 4/28/2024 8:52:29AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
		RF		RF		RF		RF		RF		RF
Aroclor-1242 (1) [2C]												
Aroclor-1242 (2) [2C]												
Aroclor-1242 (3) [2C]												
Aroclor-1242 (4) [2C]												
Aroclor-1242 (5) [2C]												
Aroclor-1248 (1)												
Aroclor-1248 (2)												
Aroclor-1248 (3)												
Aroclor-1248 (4)												
Aroclor-1248 (5)												
Aroclor-1248 (1) [2C]												
Aroclor-1248 (2) [2C]												
Aroclor-1248 (3) [2C]												
Aroclor-1248 (4) [2C]												
Aroclor-1248 (5) [2C]												
Aroclor-1254 (1)	10	3423698	20	3781931	50	3164000	100	2686000	200	2690500	500	2225800
Aroclor-1254 (2)	10	3687771	20	4054799	50	3436000	100	2986000	200	2997000	500	2509200
Aroclor-1254 (3)	10	5937949	20	6610000	50	5616000	100	4884000	200	4960500	500	4178200
Aroclor-1254 (4)	10	4521982	20	5120000	50	4366000	100	3799000	200	3858500	500	3250400
Aroclor-1254 (5)	10	6491865	20	6965000	50	5566000	100	4866000	200	4957000	500	4357200
Aroclor-1254 (1) [2C]	10	2955026	20	3247535	50	2762000	100	2350000	200	2408000	500	2098400
Aroclor-1254 (2) [2C]	10	3378960	20	3666266	50	3154000	100	2731000	200	2818000	500	2466400
Aroclor-1254 (3) [2C]	10	2630778	20	2944328	50	2524000	100	2222000	200	2320000	500	2033600
Aroclor-1254 (4) [2C]	10	4566532	20	5140000	50	4454000	100	3964000	200	4164500	500	3681800
Aroclor-1254 (5) [2C]	10	5122286	20	5755000	50	4892000	100	4375000	200	4562000	500	4023000
Aroclor-1260 (1)												
Aroclor-1260 (2)												
Aroclor-1260 (3)												
Aroclor-1260 (4)												
Aroclor-1260 (5)												
Aroclor-1260 (1) [2C]												

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

SW-846 8082A

Client: NYS Division of Environmental Remediation SDG: 24E1437

Project: Tivoli Memorial Park- CO 149634

Calibration: 2400478 Instrument: ECD 9

Calibration Date: 4/28/2024 8:52:29AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
		RF		RF		RF		RF		RF		RF
Aroclor-1260 (2) [2C]												
Aroclor-1260 (3) [2C]												
Aroclor-1260 (4) [2C]												
Aroclor-1260 (5) [2C]												
Aroclor-1262 (1)												
Aroclor-1262 (2)												
Aroclor-1262 (3)												
Aroclor-1262 (4)												
Aroclor-1262 (5)												
Aroclor-1262 (1) [2C]												
Aroclor-1262 (2) [2C]												
Aroclor-1262 (3) [2C]												
Aroclor-1262 (4) [2C]												
Aroclor-1262 (5) [2C]												
Aroclor-1268 (1)												
Aroclor-1268 (2)												
Aroclor-1268 (3)												
Aroclor-1268 (4)												
Aroclor-1268 (5)												
Aroclor-1268 (1) [2C]												
Aroclor-1268 (2) [2C]												
Aroclor-1268 (3) [2C]												
Aroclor-1268 (4) [2C]												
Aroclor-1268 (5) [2C]												
Decachlorobiphenyl												
Decachlorobiphenyl [2C]												
Tetrachloro-m-xylene												
Tetrachloro-m-xylene [2C]												

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

SW-846 8082A

Client: NYS Division of Environmental Remediation SDG: 24E1437

Project: Tivoli Memorial Park- CO 149634

Calibration: 2400478 Instrument: ECD 9

Calibration Date: 4/28/2024 8:52:29AM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
		RF		RF		RF		RF		RF		RF
Aroclor-1016 (1)			10	1193481	20	1113838	50	950926.3	100	886694.8	200	813500
Aroclor-1016 (2)			10	5165922	20	4685661	50	4032000	100	3823000	200	3528000
Aroclor-1016 (3)			10	3806862	20	3436547	50	2920000	100	2741000	200	2517000
Aroclor-1016 (4)			10	2756049	20	2499809	50	2138000	100	2006000	200	1836500
Aroclor-1016 (5)			10	1835194	20	1660715	50	1418844	100	1353000	200	1236500
Aroclor-1016 (1) [2C]			10	974022.1	20	872196	50	745816.6	100	694654.3	200	644000
Aroclor-1016 (2) [2C]			10	3873518	20	3572976	50	3166000	100	3027000	200	2925500
Aroclor-1016 (3) [2C]			10	1592987	20	1456517	50	1272309	100	1212000	200	1159500
Aroclor-1016 (4) [2C]			10	2189248	20	1928847	50	1647220	100	1527000	200	1442500
Aroclor-1016 (5) [2C]			10	2041298	20	1816950	50	1553159	100	1435000	200	1350000
Aroclor-1221 (1)												
Aroclor-1221 (2)												
Aroclor-1221 (3)												
Aroclor-1221 (1) [2C]												
Aroclor-1221 (2) [2C]												
Aroclor-1221 (3) [2C]												
Aroclor-1232 (1)												
Aroclor-1232 (2)												
Aroclor-1232 (3)												
Aroclor-1232 (4)												
Aroclor-1232 (5)												
Aroclor-1232 (1) [2C]												
Aroclor-1232 (2) [2C]												
Aroclor-1232 (3) [2C]												
Aroclor-1232 (4) [2C]												
Aroclor-1232 (5) [2C]												
Aroclor-1242 (1)												
Aroclor-1242 (2)												
Aroclor-1242 (3)												
Aroclor-1242 (4)												
Aroclor-1242 (5)												

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

SW-846 8082A

Client: NYS Division of Environmental Remediation SDG: 24E1437

Project: Tivoli Memorial Park- CO 149634

Calibration: 2400478 Instrument: ECD 9

Calibration Date: 4/28/2024 8:52:29AM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
		RF		RF		RF		RF		RF		RF
Aroclor-1242 (1) [2C]												
Aroclor-1242 (2) [2C]												
Aroclor-1242 (3) [2C]												
Aroclor-1242 (4) [2C]												
Aroclor-1242 (5) [2C]												
Aroclor-1248 (1)												
Aroclor-1248 (2)												
Aroclor-1248 (3)												
Aroclor-1248 (4)												
Aroclor-1248 (5)												
Aroclor-1248 (1) [2C]												
Aroclor-1248 (2) [2C]												
Aroclor-1248 (3) [2C]												
Aroclor-1248 (4) [2C]												
Aroclor-1248 (5) [2C]												
Aroclor-1254 (1)												
Aroclor-1254 (2)												
Aroclor-1254 (3)												
Aroclor-1254 (4)												
Aroclor-1254 (5)												
Aroclor-1254 (1) [2C]												
Aroclor-1254 (2) [2C]												
Aroclor-1254 (3) [2C]												
Aroclor-1254 (4) [2C]												
Aroclor-1254 (5) [2C]												
Aroclor-1260 (1)			10	5458516	20	4840650	50	4118000	100	3890000	200	3559000
Aroclor-1260 (2)			10	7981205	20	7110000	50	6094000	100	5803001	200	5334500
Aroclor-1260 (3)			10	5121207	20	4562775	50	3902000	100	3753000	200	3420000
Aroclor-1260 (4)			10	5105766	20	4549175	50	3934000	100	3815000	200	3498000
Aroclor-1260 (5)			10	1.092E+07	20	9045000	50	8158000	100	7989000	200	7351001
Aroclor-1260 (1) [2C]			10	4333990	20	3882647	50	3330000	100	3208000	200	3032000

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

SW-846 8082A

Client: NYS Division of Environmental Remediation SDG: 24E1437

Project: Tivoli Memorial Park- CO 149634

Calibration: 2400478 Instrument: ECD 9

Calibration Date: 4/28/2024 8:52:29AM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
		RF		RF		RF		RF		RF		RF
Aroclor-1260 (2) [2C]			10	5165282	20	4465208	50	3872000	100	3760000	200	3484500
Aroclor-1260 (3) [2C]			10	3819921	20	3365825	50	2906000	100	2804000	200	2666000
Aroclor-1260 (4) [2C]			10	4223512	20	3739779	50	3276000	100	3196000	200	3065500
Aroclor-1260 (5) [2C]			10	8516883	20	7660000	50	6856000	100	6837000	200	6703500
Aroclor-1262 (1)												
Aroclor-1262 (2)												
Aroclor-1262 (3)												
Aroclor-1262 (4)												
Aroclor-1262 (5)												
Aroclor-1262 (1) [2C]												
Aroclor-1262 (2) [2C]												
Aroclor-1262 (3) [2C]												
Aroclor-1262 (4) [2C]												
Aroclor-1262 (5) [2C]												
Aroclor-1268 (1)												
Aroclor-1268 (2)												
Aroclor-1268 (3)												
Aroclor-1268 (4)												
Aroclor-1268 (5)												
Aroclor-1268 (1) [2C]												
Aroclor-1268 (2) [2C]												
Aroclor-1268 (3) [2C]												
Aroclor-1268 (4) [2C]												
Aroclor-1268 (5) [2C]												
Decachlorobiphenyl	5	6.214E+07	10	6.459E+07	20	5.7575E+07	50	5.2546E+07	100	5.2617E+07	200	5.22005E+07
Decachlorobiphenyl [2C]	5	5.044E+07	10	5.52E+07	20	5.1285E+07	50	4.827E+07	100	4.9807E+07	200	5.01695E+07
Tetrachloro-m-xylene	5	7.478E+07	10	7.115E+07	20	7.0765E+07	50	6.4118E+07	100	6.4071E+07	200	6.2682E+07
Tetrachloro-m-xylene [2C]	5	5.868E+07	10	6.194E+07	20	6.1635E+07	50	5.73E+07	100	5.8513E+07	200	5.8759E+07

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

SW-846 8082A

Client: NYS Division of Environmental Remediation SDG: 24E1437

Project: Tivoli Memorial Park- CO 149634

Calibration: 2400478 Instrument: ECD 9

Calibration Date: 4/28/2024 8:52:29AM

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
		RF		RF		RF		RF		RF		RF
Aroclor-1016 (1)	500	740200										
Aroclor-1016 (2)	500	3245000										
Aroclor-1016 (3)	500	2291000										
Aroclor-1016 (4)	500	1686600										
Aroclor-1016 (5)	500	1138600										
Aroclor-1016 (1) [2C]	500	609600										
Aroclor-1016 (2) [2C]	500	2855000										
Aroclor-1016 (3) [2C]	500	1132400										
Aroclor-1016 (4) [2C]	500	1385400										
Aroclor-1016 (5) [2C]	500	1304600										
Aroclor-1221 (1)												
Aroclor-1221 (2)												
Aroclor-1221 (3)												
Aroclor-1221 (1) [2C]												
Aroclor-1221 (2) [2C]												
Aroclor-1221 (3) [2C]												
Aroclor-1232 (1)												
Aroclor-1232 (2)												
Aroclor-1232 (3)												
Aroclor-1232 (4)												
Aroclor-1232 (5)												
Aroclor-1232 (1) [2C]												
Aroclor-1232 (2) [2C]												
Aroclor-1232 (3) [2C]												
Aroclor-1232 (4) [2C]												
Aroclor-1232 (5) [2C]												
Aroclor-1242 (1)			10	1289552	20	1187008	50	1119502	100	1022000	200	964000
Aroclor-1242 (2)			10	3944077	20	3611380	50	3322000	100	3128000	200	2938500
Aroclor-1242 (3)			10	1802454	20	1644991	50	1516479	100	1424000	200	1353500
Aroclor-1242 (4)			10	2254412	20	2028442	50	1857193	100	1725000	200	1632500
Aroclor-1242 (5)			10	2237911	20	2091000	50	1906322	100	1772000	200	1669000

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

SW-846 8082A

Client: NYS Division of Environmental Remediation SDG: 24E1437

Project: Tivoli Memorial Park- CO 149634

Calibration: 2400478 Instrument: ECD 9

Calibration Date: 4/28/2024 8:52:29AM

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
		RF		RF		RF		RF		RF		RF
Aroclor-1242 (1) [2C]			10	923868.1	20	823711	50	743380.8	100	683247.1	200	647000
Aroclor-1242 (2) [2C]			10	2607151	20	2338809	50	2218000	100	2151000	200	2127500
Aroclor-1242 (3) [2C]			10	1044943	20	951119	50	894873.4	100	853680.2	200	841000
Aroclor-1242 (4) [2C]			10	1518727	20	1375472	50	1238161	100	1161000	200	1122500
Aroclor-1242 (5) [2C]			10	1490027	20	1344441	50	1223333	100	1154000	200	1125000
Aroclor-1248 (1)												
Aroclor-1248 (2)												
Aroclor-1248 (3)												
Aroclor-1248 (4)												
Aroclor-1248 (5)												
Aroclor-1248 (1) [2C]												
Aroclor-1248 (2) [2C]												
Aroclor-1248 (3) [2C]												
Aroclor-1248 (4) [2C]												
Aroclor-1248 (5) [2C]												
Aroclor-1254 (1)												
Aroclor-1254 (2)												
Aroclor-1254 (3)												
Aroclor-1254 (4)												
Aroclor-1254 (5)												
Aroclor-1254 (1) [2C]												
Aroclor-1254 (2) [2C]												
Aroclor-1254 (3) [2C]												
Aroclor-1254 (4) [2C]												
Aroclor-1254 (5) [2C]												
Aroclor-1260 (1)	500	3282400										
Aroclor-1260 (2)	500	4963200										
Aroclor-1260 (3)	500	3172200										
Aroclor-1260 (4)	500	3277400										
Aroclor-1260 (5)	500	7232400										
Aroclor-1260 (1) [2C]	500	2922400										

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

SW-846 8082A

Client: NYS Division of Environmental Remediation SDG: 24E1437

Project: Tivoli Memorial Park- CO 149634

Calibration: 2400478 Instrument: ECD 9

Calibration Date: 4/28/2024 8:52:29AM

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
		RF		RF		RF		RF		RF		RF
Aroclor-1260 (2) [2C]	500	3443200										
Aroclor-1260 (3) [2C]	500	2580600										
Aroclor-1260 (4) [2C]	500	2977800										
Aroclor-1260 (5) [2C]	500	6687600										
Aroclor-1262 (1)												
Aroclor-1262 (2)												
Aroclor-1262 (3)												
Aroclor-1262 (4)												
Aroclor-1262 (5)												
Aroclor-1262 (1) [2C]												
Aroclor-1262 (2) [2C]												
Aroclor-1262 (3) [2C]												
Aroclor-1262 (4) [2C]												
Aroclor-1262 (5) [2C]												
Aroclor-1268 (1)												
Aroclor-1268 (2)												
Aroclor-1268 (3)												
Aroclor-1268 (4)												
Aroclor-1268 (5)												
Aroclor-1268 (1) [2C]												
Aroclor-1268 (2) [2C]												
Aroclor-1268 (3) [2C]												
Aroclor-1268 (4) [2C]												
Aroclor-1268 (5) [2C]												
Decachlorobiphenyl	500	4.68692E+07										
Decachlorobiphenyl [2C]	500	4.34768E+07										
Tetrachloro-m-xylene	500	5.2167E+07										
Tetrachloro-m-xylene [2C]	500	4.81648E+07										

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

SW-846 8082A

Client: NYS Division of Environmental Remediation SDG: 24E1437

Project: Tivoli Memorial Park- CO 149634

Calibration: 2400478 Instrument: ECD 9

Calibration Date: 4/28/2024 8:52:29AM

Compound	Level 25		Level 26		Level 27		Level 28		Level 29		Level 30	
		RF		RF		RF		RF		RF		RF
Aroclor-1016 (1)												
Aroclor-1016 (2)												
Aroclor-1016 (3)												
Aroclor-1016 (4)												
Aroclor-1016 (5)												
Aroclor-1016 (1) [2C]												
Aroclor-1016 (2) [2C]												
Aroclor-1016 (3) [2C]												
Aroclor-1016 (4) [2C]												
Aroclor-1016 (5) [2C]												
Aroclor-1221 (1)			10	1005113	20	1085416	50	986848.4	100	971238.3	200	888500
Aroclor-1221 (2)			10	2418285	20	2292072	50	2136000	100	2020000	200	1869000
Aroclor-1221 (3)			10	292137.3	20	296242.9	50	305057.8	100	302993.3	200	289216.4
Aroclor-1221 (1) [2C]			10	780323.4	20	722947	50	654038.2	100	617199.4	200	575500
Aroclor-1221 (2) [2C]			10	538168	20	500080.5	50	452869.8	100	418400.6	200	381548.5
Aroclor-1221 (3) [2C]			10	1811746	20	1660880	50	1509676	100	1419000	200	1342500
Aroclor-1232 (1)												
Aroclor-1232 (2)												
Aroclor-1232 (3)												
Aroclor-1232 (4)												
Aroclor-1232 (5)												
Aroclor-1232 (1) [2C]												
Aroclor-1232 (2) [2C]												
Aroclor-1232 (3) [2C]												
Aroclor-1232 (4) [2C]												
Aroclor-1232 (5) [2C]												
Aroclor-1242 (1)	500	861400										
Aroclor-1242 (2)	500	2718800										
Aroclor-1242 (3)	500	1250400										
Aroclor-1242 (4)	500	1500200										
Aroclor-1242 (5)	500	1517000										

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

SW-846 8082A

Client: NYS Division of Environmental Remediation SDG: 24E1437

Project: Tivoli Memorial Park- CO 149634

Calibration: 2400478 Instrument: ECD 9

Calibration Date: 4/28/2024 8:52:29AM

Compound	Level 25		Level 26		Level 27		Level 28		Level 29		Level 30	
		RF		RF		RF		RF		RF		RF
Aroclor-1242 (1) [2C]	500	614400										
Aroclor-1242 (2) [2C]	500	2104600										
Aroclor-1242 (3) [2C]	500	838200										
Aroclor-1242 (4) [2C]	500	1095400										
Aroclor-1242 (5) [2C]	500	1111400										
Aroclor-1248 (1)												
Aroclor-1248 (2)												
Aroclor-1248 (3)												
Aroclor-1248 (4)												
Aroclor-1248 (5)												
Aroclor-1248 (1) [2C]												
Aroclor-1248 (2) [2C]												
Aroclor-1248 (3) [2C]												
Aroclor-1248 (4) [2C]												
Aroclor-1248 (5) [2C]												
Aroclor-1254 (1)												
Aroclor-1254 (2)												
Aroclor-1254 (3)												
Aroclor-1254 (4)												
Aroclor-1254 (5)												
Aroclor-1254 (1) [2C]												
Aroclor-1254 (2) [2C]												
Aroclor-1254 (3) [2C]												
Aroclor-1254 (4) [2C]												
Aroclor-1254 (5) [2C]												
Aroclor-1260 (1)												
Aroclor-1260 (2)												
Aroclor-1260 (3)												
Aroclor-1260 (4)												
Aroclor-1260 (5)												
Aroclor-1260 (1) [2C]												

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

SW-846 8082A

Client: NYS Division of Environmental Remediation SDG: 24E1437

Project: Tivoli Memorial Park- CO 149634

Calibration: 2400478 Instrument: ECD 9

Calibration Date: 4/28/2024 8:52:29AM

Compound	Level 25		Level 26		Level 27		Level 28		Level 29		Level 30	
		RF		RF		RF		RF		RF		RF
Aroclor-1260 (2) [2C]												
Aroclor-1260 (3) [2C]												
Aroclor-1260 (4) [2C]												
Aroclor-1260 (5) [2C]												
Aroclor-1262 (1)			10	2365334	20	2363438	50	2100000	100	1936000	200	1811000
Aroclor-1262 (2)			10	5514758	20	5405000	50	4782000	100	4435000	200	4153000
Aroclor-1262 (3)			10	5839633	20	5780000	50	5088000	100	4708000	200	4399500
Aroclor-1262 (4)			10	5255708	20	5185000	50	4624000	100	4298000	200	4063500
Aroclor-1262 (5)			10	1.169E+07	20	1.17E+07	50	1.0286E+07	100	9683000	200	8766000
Aroclor-1262 (1) [2C]			10	1694951	20	1633493	50	1419955	100	1317000	200	1256500
Aroclor-1262 (2) [2C]			10	3409736	20	3278103	50	2888000	100	2715000	200	2620000
Aroclor-1262 (3) [2C]			10	4027050	20	3927347	50	3504000	100	3343000	200	3269000
Aroclor-1262 (4) [2C]			10	3820400	20	3750305	50	3368000	100	3225000	200	3157500
Aroclor-1262 (5) [2C]			10	7621004	20	7630000	50	7124000	100	6964000	200	6925000
Aroclor-1268 (1)												
Aroclor-1268 (2)												
Aroclor-1268 (3)												
Aroclor-1268 (4)												
Aroclor-1268 (5)												
Aroclor-1268 (1) [2C]												
Aroclor-1268 (2) [2C]												
Aroclor-1268 (3) [2C]												
Aroclor-1268 (4) [2C]												
Aroclor-1268 (5) [2C]												
Decachlorobiphenyl												
Decachlorobiphenyl [2C]												
Tetrachloro-m-xylene												
Tetrachloro-m-xylene [2C]												

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

SW-846 8082A

Client: NYS Division of Environmental Remediation SDG: 24E1437

Project: Tivoli Memorial Park- CO 149634

Calibration: 2400478 Instrument: ECD 9

Calibration Date: 4/28/2024 8:52:29AM

Compound	Level 31		Level 32		Level 33		Level 34		Level 35		Level 36	
		RF		RF		RF		RF		RF		RF
Aroclor-1016 (1)												
Aroclor-1016 (2)												
Aroclor-1016 (3)												
Aroclor-1016 (4)												
Aroclor-1016 (5)												
Aroclor-1016 (1) [2C]												
Aroclor-1016 (2) [2C]												
Aroclor-1016 (3) [2C]												
Aroclor-1016 (4) [2C]												
Aroclor-1016 (5) [2C]												
Aroclor-1221 (1)	500	788600										
Aroclor-1221 (2)	500	1665200										
Aroclor-1221 (3)	500	260000										
Aroclor-1221 (1) [2C]	500	544600										
Aroclor-1221 (2) [2C]	500	348200										
Aroclor-1221 (3) [2C]	500	1264200										
Aroclor-1232 (1)			10	753624.7	20	744515	50	716699.6	100	664275.4	200	593000
Aroclor-1232 (2)			10	1701199	20	1622338	50	1484787	100	1392000	200	1264500
Aroclor-1232 (3)			10	1197007	20	1133269	50	1049233	100	987705.2	200	900000
Aroclor-1232 (4)			10	759041.3	20	758111.5	50	708323.1	100	670605.2	200	617000
Aroclor-1232 (5)			10	1055622	20	1093180	50	1033760	100	995440.9	200	919500
Aroclor-1232 (1) [2C]			10	563171.6	20	566282.5	50	490505.4	100	448590.4	200	400784.3
Aroclor-1232 (2) [2C]			10	636031.1	20	607408	50	555657.2	100	530237.7	200	492210
Aroclor-1232 (3) [2C]			10	836282.3	20	818411.5	50	738760.6	100	681120.8	200	621000
Aroclor-1232 (4) [2C]			10	867244.4	20	833556	50	745386.4	100	697649.2	200	646000
Aroclor-1232 (5) [2C]			10	1049015	20	1002767	50	899372.2	100	837343.9	200	773000
Aroclor-1242 (1)												
Aroclor-1242 (2)												
Aroclor-1242 (3)												
Aroclor-1242 (4)												
Aroclor-1242 (5)												

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

SW-846 8082A

Client: NYS Division of Environmental Remediation SDG: 24E1437

Project: Tivoli Memorial Park- CO 149634

Calibration: 2400478 Instrument: ECD 9

Calibration Date: 4/28/2024 8:52:29AM

Compound	Level 31		Level 32		Level 33		Level 34		Level 35		Level 36	
		RF		RF		RF		RF		RF		RF
Aroclor-1242 (1) [2C]												
Aroclor-1242 (2) [2C]												
Aroclor-1242 (3) [2C]												
Aroclor-1242 (4) [2C]												
Aroclor-1242 (5) [2C]												
Aroclor-1248 (1)												
Aroclor-1248 (2)												
Aroclor-1248 (3)												
Aroclor-1248 (4)												
Aroclor-1248 (5)												
Aroclor-1248 (1) [2C]												
Aroclor-1248 (2) [2C]												
Aroclor-1248 (3) [2C]												
Aroclor-1248 (4) [2C]												
Aroclor-1248 (5) [2C]												
Aroclor-1254 (1)												
Aroclor-1254 (2)												
Aroclor-1254 (3)												
Aroclor-1254 (4)												
Aroclor-1254 (5)												
Aroclor-1254 (1) [2C]												
Aroclor-1254 (2) [2C]												
Aroclor-1254 (3) [2C]												
Aroclor-1254 (4) [2C]												
Aroclor-1254 (5) [2C]												
Aroclor-1260 (1)												
Aroclor-1260 (2)												
Aroclor-1260 (3)												
Aroclor-1260 (4)												
Aroclor-1260 (5)												
Aroclor-1260 (1) [2C]												

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

SW-846 8082A

Client: NYS Division of Environmental Remediation SDG: 24E1437

Project: Tivoli Memorial Park- CO 149634

Calibration: 2400478 Instrument: ECD 9

Calibration Date: 4/28/2024 8:52:29AM

Compound	Level 31		Level 32		Level 33		Level 34		Level 35		Level 36	
		RF		RF		RF		RF		RF		RF
Aroclor-1260 (2) [2C]												
Aroclor-1260 (3) [2C]												
Aroclor-1260 (4) [2C]												
Aroclor-1260 (5) [2C]												
Aroclor-1262 (1)	500	1612400										
Aroclor-1262 (2)	500	3758200										
Aroclor-1262 (3)	500	3893800										
Aroclor-1262 (4)	500	3713200										
Aroclor-1262 (5)	500	8333400										
Aroclor-1262 (1) [2C]	500	1182400										
Aroclor-1262 (2) [2C]	500	2500400										
Aroclor-1262 (3) [2C]	500	3141800										
Aroclor-1262 (4) [2C]	500	3048600										
Aroclor-1262 (5) [2C]	500	6906000										
Aroclor-1268 (1)			10	1.183E+07	20	1.1475E+07	50	1.0422E+07	100	1.0081E+07	200	9595000
Aroclor-1268 (2)			10	1.251E+07	20	1.1835E+07	50	1.0698E+07	100	1.0247E+07	200	9632500
Aroclor-1268 (3)			10	1.1E+07	20	1.048E+07	50	9590000	100	9284000	200	8783000
Aroclor-1268 (4)			10	3190962	20	3506580	50	3076000	100	2766000	200	2569500
Aroclor-1268 (5)			10	2.685E+07	20	2.73E+07	50	2.4158E+07	100	2.3255E+07	200	2.2716E+07
Aroclor-1268 (1) [2C]			10	8576546	20	8425000	50	7992000	100	8028000	200	7897000
Aroclor-1268 (2) [2C]			10	8471300	20	8350000	50	7822000	100	7819001	200	7684000
Aroclor-1268 (3) [2C]			10	7818031	20	7665000	50	7194000	100	7280000	200	7170500
Aroclor-1268 (4) [2C]			10	2594405	20	2477981	50	2066000	100	1964000	200	1877500
Aroclor-1268 (5) [2C]			10	2.004E+07	20	2.04E+07	50	1.9608E+07	100	2.0124E+07	200	1.99125E+07
Decachlorobiphenyl												
Decachlorobiphenyl [2C]												
Tetrachloro-m-xylene												
Tetrachloro-m-xylene [2C]												

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

SW-846 8082A

Client: NYS Division of Environmental Remediation SDG: 24E1437

Project: Tivoli Memorial Park- CO 149634

Calibration: 2400478 Instrument: ECD 9

Calibration Date: 4/28/2024 8:52:29AM

Compound	Level 37		Level 38		Level 39		Level 40		Level 41		Level 42	
		RF		RF		RF		RF		RF		RF
Aroclor-1016 (1)												
Aroclor-1016 (2)												
Aroclor-1016 (3)												
Aroclor-1016 (4)												
Aroclor-1016 (5)												
Aroclor-1016 (1) [2C]												
Aroclor-1016 (2) [2C]												
Aroclor-1016 (3) [2C]												
Aroclor-1016 (4) [2C]												
Aroclor-1016 (5) [2C]												
Aroclor-1221 (1)												
Aroclor-1221 (2)												
Aroclor-1221 (3)												
Aroclor-1221 (1) [2C]												
Aroclor-1221 (2) [2C]												
Aroclor-1221 (3) [2C]												
Aroclor-1232 (1)	500	491200										
Aroclor-1232 (2)	500	1040400										
Aroclor-1232 (3)	500	769000										
Aroclor-1232 (4)	500	544000										
Aroclor-1232 (5)	500	806800										
Aroclor-1232 (1) [2C]	500	354600										
Aroclor-1232 (2) [2C]	500	468200										
Aroclor-1232 (3) [2C]	500	561800										
Aroclor-1232 (4) [2C]	500	605600										
Aroclor-1232 (5) [2C]	500	705200										
Aroclor-1242 (1)												
Aroclor-1242 (2)												
Aroclor-1242 (3)												
Aroclor-1242 (4)												
Aroclor-1242 (5)												

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

SW-846 8082A

Client: NYS Division of Environmental Remediation SDG: 24E1437

Project: Tivoli Memorial Park- CO 149634

Calibration: 2400478 Instrument: ECD 9

Calibration Date: 4/28/2024 8:52:29AM

Compound	Level 37		Level 38		Level 39		Level 40		Level 41		Level 42	
		RF		RF		RF		RF		RF		RF
Aroclor-1242 (1) [2C]												
Aroclor-1242 (2) [2C]												
Aroclor-1242 (3) [2C]												
Aroclor-1242 (4) [2C]												
Aroclor-1242 (5) [2C]												
Aroclor-1248 (1)												
Aroclor-1248 (2)												
Aroclor-1248 (3)												
Aroclor-1248 (4)												
Aroclor-1248 (5)												
Aroclor-1248 (1) [2C]												
Aroclor-1248 (2) [2C]												
Aroclor-1248 (3) [2C]												
Aroclor-1248 (4) [2C]												
Aroclor-1248 (5) [2C]												
Aroclor-1254 (1)												
Aroclor-1254 (2)												
Aroclor-1254 (3)												
Aroclor-1254 (4)												
Aroclor-1254 (5)												
Aroclor-1254 (1) [2C]												
Aroclor-1254 (2) [2C]												
Aroclor-1254 (3) [2C]												
Aroclor-1254 (4) [2C]												
Aroclor-1254 (5) [2C]												
Aroclor-1260 (1)												
Aroclor-1260 (2)												
Aroclor-1260 (3)												
Aroclor-1260 (4)												
Aroclor-1260 (5)												
Aroclor-1260 (1) [2C]												

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

SW-846 8082A

Client: NYS Division of Environmental Remediation SDG: 24E1437

Project: Tivoli Memorial Park- CO 149634

Calibration: 2400478 Instrument: ECD 9

Calibration Date: 4/28/2024 8:52:29AM

Compound	Level 37		Level 38		Level 39		Level 40		Level 41		Level 42	
		RF		RF		RF		RF		RF		RF
Aroclor-1260 (2) [2C]												
Aroclor-1260 (3) [2C]												
Aroclor-1260 (4) [2C]												
Aroclor-1260 (5) [2C]												
Aroclor-1262 (1)												
Aroclor-1262 (2)												
Aroclor-1262 (3)												
Aroclor-1262 (4)												
Aroclor-1262 (5)												
Aroclor-1262 (1) [2C]												
Aroclor-1262 (2) [2C]												
Aroclor-1262 (3) [2C]												
Aroclor-1262 (4) [2C]												
Aroclor-1262 (5) [2C]												
Aroclor-1268 (1)	500	9684799										
Aroclor-1268 (2)	500	9329400										
Aroclor-1268 (3)	500	8546800										
Aroclor-1268 (4)	500	2440800										
Aroclor-1268 (5)	500	2.40206E+07										
Aroclor-1268 (1) [2C]	500	8403600										
Aroclor-1268 (2) [2C]	500	8041600										
Aroclor-1268 (3) [2C]	500	7559600										
Aroclor-1268 (4) [2C]	500	1813400										
Aroclor-1268 (5) [2C]	500	2.1608E+07										
Decachlorobiphenyl												
Decachlorobiphenyl [2C]												
Tetrachloro-m-xylene												
Tetrachloro-m-xylene [2C]												

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

SW-846 8082A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Calibration:	2400478	Instrument:	ECD 9
		Calibration Date:	4/28/2024 8:52:29AM

COMPOUND	Mean RF	RF RSD	Linear r^2	Quad COD	LIMIT	Q
Aroclor-1016 (1)	949773.3	18.4			20	
Aroclor-1016 (2)	4079930	17.7			20	
Aroclor-1016 (3)	2952068	19.4			20	
Aroclor-1016 (4)	2153826	18.8			20	
Aroclor-1016 (5)	1440475	18.2			20	
Aroclor-1016 (1) [2C]	756714.8	18.6			20	
Aroclor-1016 (2) [2C]	3236666	12.4			20	
Aroclor-1016 (3) [2C]	1304285	14.0			20	
Aroclor-1016 (4) [2C]	1686702	18.5			20	
Aroclor-1016 (5) [2C]	1583501	18.3			20	
Aroclor-1221 (1)	954285.9	10.8			20	
Aroclor-1221 (2)	2066760	13.4			20	
Aroclor-1221 (3)	290941.3	5.6			20	
Aroclor-1221 (1) [2C]	649101.3	13.8			20	
Aroclor-1221 (2) [2C]	439877.9	16.3			20	
Aroclor-1221 (3) [2C]	1501333	13.7			20	
Aroclor-1232 (1)	660552.5	15.5			20	
Aroclor-1232 (2)	1417537	17.1			20	
Aroclor-1232 (3)	1006036	15.5			20	
Aroclor-1232 (4)	676180.2	12.5			20	
Aroclor-1232 (5)	984050.3	10.7			20	
Aroclor-1232 (1) [2C]	470655.7	18.3			20	
Aroclor-1232 (2) [2C]	548290.7	11.9			20	
Aroclor-1232 (3) [2C]	709562.5	15.3			20	
Aroclor-1232 (4) [2C]	732572.7	14.1			20	
Aroclor-1232 (5) [2C]	877783	15.1			20	
Aroclor-1242 (1)	1073910	14.5			20	
Aroclor-1242 (2)	3277126	13.7			20	
Aroclor-1242 (3)	1498637	13.4			20	
Aroclor-1242 (4)	1832958	15.0			20	
Aroclor-1242 (5)	1865539	14.4			20	

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

SW-846 8082A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Calibration:	2400478	Instrument:	ECD 9
		Calibration Date:	4/28/2024 8:52:29AM

COMPOUND	Mean RF	RF RSD	Linear r^2	Quad COD	LIMIT	Q
Aroclor-1242 (1) [2C]	739267.8	15.8			20	
Aroclor-1242 (2) [2C]	2257843	8.5			20	
Aroclor-1242 (3) [2C]	903969.3	9.0			20	
Aroclor-1242 (4) [2C]	1251877	13.2			20	
Aroclor-1242 (5) [2C]	1241367	12.0			20	
Aroclor-1248 (1)	1843481	18.5			20	
Aroclor-1248 (2)	2562572	14.8			20	
Aroclor-1248 (3)	1766225	13.6			20	
Aroclor-1248 (4)	2962043	10.7			20	
Aroclor-1248 (5)	2859343	15.4			20	
Aroclor-1248 (1) [2C]	1579928	15.9			20	
Aroclor-1248 (2) [2C]	2033274	11.9			20	
Aroclor-1248 (3) [2C]	2300536	11.7			20	
Aroclor-1248 (4) [2C]	2399707	9.7			20	
Aroclor-1248 (5) [2C]	2791366	11.0			20	
Aroclor-1254 (1)	2995321	19.0			20	
Aroclor-1254 (2)	3278462	17.0			20	
Aroclor-1254 (3)	5364441	16.1			20	
Aroclor-1254 (4)	4152647	15.8			20	
Aroclor-1254 (5)	5533844	18.3			20	
Aroclor-1254 (1) [2C]	2636827	16.2			20	
Aroclor-1254 (2) [2C]	3035771	14.7			20	
Aroclor-1254 (3) [2C]	2445784	13.2			20	
Aroclor-1254 (4) [2C]	4328472	11.8			20	
Aroclor-1254 (5) [2C]	4788214	12.8			20	
Aroclor-1260 (1)	4191428	19.5			20	
Aroclor-1260 (2)	6214317	18.3			20	
Aroclor-1260 (3)	3988530	18.3			20	
Aroclor-1260 (4)	4029890	16.9			20	
Aroclor-1260 (5)	8449233	16.3			20	
Aroclor-1260 (1) [2C]	3451506	15.8			20	

6 - FORM VI
INITIAL CALIBRATION DATA SHEET (Continued)

SW-846 8082A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Calibration:	2400478	Instrument:	ECD 9
		Calibration Date:	4/28/2024 8:52:29AM

COMPOUND	Mean RF	RF RSD	Linear r^2	Quad COD	LIMIT	Q
Aroclor-1260 (2) [2C]	4031698	16.5			20	
Aroclor-1260 (3) [2C]	3023724	15.8			20	
Aroclor-1260 (4) [2C]	3413099	14.0			20	
Aroclor-1260 (5) [2C]	7210164	10.2			20	
Aroclor-1262 (1)	2031362	14.9			20	
Aroclor-1262 (2)	4674660	14.9			20	
Aroclor-1262 (3)	4951489	15.6			20	
Aroclor-1262 (4)	4523235	13.6			20	
Aroclor-1262 (5)	1.00764E+07	14.2			20	
Aroclor-1262 (1) [2C]	1417383	14.6			20	
Aroclor-1262 (2) [2C]	2901873	12.7			20	
Aroclor-1262 (3) [2C]	3535366	10.3			20	
Aroclor-1262 (4) [2C]	3394967	9.4			20	
Aroclor-1262 (5) [2C]	7195001	4.8			20	
Aroclor-1268 (1)	1.051463E+07	8.9			20	
Aroclor-1268 (2)	1.070865E+07	11.7			20	
Aroclor-1268 (3)	9613967	10.0			20	
Aroclor-1268 (4)	2924974	13.8			20	
Aroclor-1268 (5)	2.47166E+07	7.7			20	
Aroclor-1268 (1) [2C]	8220358	3.4			20	
Aroclor-1268 (2) [2C]	8031317	4.0			20	
Aroclor-1268 (3) [2C]	7447855	3.6			20	
Aroclor-1268 (4) [2C]	2132214	15.3			20	
Aroclor-1268 (5) [2C]	2.028208E+07	3.4			20	
Decachlorobiphenyl	5.550539E+07	11.2			20	
Decachlorobiphenyl [2C]	4.98069E+07	7.1			20	
Tetrachloro-m-xylene	6.567614E+07	11.4			20	
Tetrachloro-m-xylene [2C]	5.785597E+07	8.0			20	

INITIAL CALIBRATION STANDARDS

SW-846 8082A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Sequence:	S099889	Instrument:	ECD 9
Calibration:	2400478		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
23K0177	Aroclor Standard 1232/1268=10 ppb	S099889-CAL1	I24E031048.d	01/31/24 16:47
23K0176	Aroclor Standard 1232/1268=20 ppb	S099889-CAL2	I24E031049.d	01/31/24 16:59
23K0175	Aroclor Standard 1232/1268=50 ppb	S099889-CAL3	I24E031050.d	01/31/24 17:11
23K0174	Aroclor Standard 1232/1268=100 ppb	S099889-CAL4	I24E031051.d	01/31/24 17:22
23K0173	Aroclor Standard 1232/1268=200 ppb	S099889-CAL5	I24E031052.d	01/31/24 17:34
23K0172	Aroclor Standard 1232/1268=500 ppb	S099889-CAL6	I24E031053.d	01/31/24 17:46

INITIAL CALIBRATION STANDARDS

SW-846 8082A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Sequence:	S099890	Instrument:	ECD 9
Calibration:	2400478		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
23L0794	Aroclor 1221/1262 Standard=10 ug/L	S099890-CAL1	I24E031057.d	01/31/24 18:33
23L0793	Aroclor 1221/1262 Standard=20 ug/L	S099890-CAL2	I24E031058.d	01/31/24 18:45
23L0792	Aroclor 1221/1262 Standard=50 ug/L	S099890-CAL3	I24E031059.d	01/31/24 18:57
23L0791	Aroclor 1221/1262 Standard=100 ug/L	S099890-CAL4	I24E031060.d	01/31/24 19:09
23L0790	Aroclor 1221/1262 Standard=200 ug/L	S099890-CAL5	I24E031061.d	01/31/24 19:21
23L0789	Aroclor 1221/1262 Standard=500 ug/L	S099890-CAL6	I24E031062.d	01/31/24 19:33

INITIAL CALIBRATION STANDARDS

SW-846 8082A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Sequence:	S100993	Instrument:	ECD 9
Calibration:	2400478		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
24B0855	Aroclor 1242 Standard=10 ppb	S100993-CAL1	I24E058029.d	02/27/24 14:46
24B0854	Aroclor 1242 Standard=20 ppb	S100993-CAL2	I24E058030.d	02/27/24 14:58
24B0853	Aroclor 1242 Standard=50 ppb	S100993-CAL3	I24E058031.d	02/27/24 15:10
24B0852	Aroclor 1242 Standard=100 ppb	S100993-CAL4	I24E058032.d	02/27/24 15:22
24B0850	Aroclor 1242 Standard=200 ppb	S100993-CAL5	I24E058033.d	02/27/24 15:34
24B0849	Aroclor 1242 Standard=500 ppb	S100993-CAL6	I24E058034.d	02/27/24 15:45

INITIAL CALIBRATION STANDARDS

SW-846 8082A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Sequence:	S103761	Instrument:	ECD 9
Calibration:	2400478		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
24B0729	Aroclor 1260/1016 Standard=5 ppb	S103761-CAL1	I24E117011.d	04/26/24 10:54
24B0728	Aroclor 1260/1016 Standard=10 ppb	S103761-CAL2	I24E117012.d	04/26/24 11:06
24B0727	Aroclor 1260/1016 Standard=20 ppb	S103761-CAL3	I24E117013.d	04/26/24 11:18
24B0726	Aroclor 1260/1016 Standard=50 ppb	S103761-CAL4	I24E117014.d	04/26/24 11:30
24B0725	Aroclor 1260/1016 Standard=100 ppb	S103761-CAL5	I24E117015.d	04/26/24 11:42
24B0724	Aroclor 1260/1016 Standard=200 ppb	S103761-CAL6	I24E117016.d	04/26/24 11:55
24B0723	Aroclor 1260/1016 Standard=500 ppb	S103761-CAL7	I24E117017.d	04/26/24 12:07

INITIAL CALIBRATION STANDARDS

SW-846 8082A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Sequence:	S103762	Instrument:	ECD 9
Calibration:	2400478		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
23L0192	Aroclor 1254 Standard=10 ppb	S103762-CAL1	I24E117021.d	04/26/24 12:55
23L0191	Aroclor 1254 Standard=20 ppb	S103762-CAL2	I24E117022.d	04/26/24 13:07
23L0190	Aroclor 1254 Standard=50 ppb	S103762-CAL3	I24E117023.d	04/26/24 13:18
23L0189	Aroclor 1254 Standard=100 ppb	S103762-CAL4	I24E117024.d	04/26/24 13:31
23L0188	Aroclor 1254 Standard=200 ppb	S103762-CAL5	I24E117025.d	04/26/24 13:42
23L0187	Aroclor 1254 Standard=500 ppb	S103762-CAL6	I24E117026.d	04/26/24 13:54

INITIAL CALIBRATION STANDARDS

SW-846 8082A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Sequence:	S103763	Instrument:	ECD 9
Calibration:	2400478		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
24B0836	Aroclor 1248 Standard=10 ppb	S103763-CAL1	I24E117030.d	04/26/24 14:41
24B0834	Aroclor 1248 Standard=20 ppb	S103763-CAL2	I24E117031.d	04/26/24 14:53
24B0833	Aroclor 1248 Standard=50 ppb	S103763-CAL3	I24E117032.d	04/26/24 15:05
24B0832	Aroclor 1248 Standard=100 ppb	S103763-CAL4	I24E117033.d	04/26/24 15:17
24B0831	Aroclor 1248 Standard=200 ppb	S103763-CAL5	I24E117034.d	04/26/24 15:30
24B0830	Aroclor 1248 Standard=500 ppb	S103763-CAL6	I24E117035.d	04/26/24 15:41

Method Path : C:\msdchem\1\methods\PCB Methods\
Method File : 9-PCB-042624C.M
Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
Last Update : Sun Apr 28 09:26:05 2024
Response Via : Initial Calibration

Calibration Files
5 =I24E117030.d 10 =I24E117030.d 20 =I24E117031.d
50 =I24E117032.d 100 =I24E117033.d 200 =I24E117034.d

		Compound	5	10	20	50	100	200	Avg		%RSD
1)	S	Tetrachloro-m...	7.478	7.115	7.076	6.412	6.407	6.268	6.568	E7	11.38
2)	S	Decachlorobip...	6.215	6.459	5.758	5.255	5.262	5.220	5.551	E7	11.24
3)	L1	1016{1}		1.193	1.114	0.951	0.887	0.814	0.950	E6	18.40
4)	L1	1016{2}		5.166	4.686	4.031	3.823	3.528	4.080	E6	17.73
5)	L1	1016{3}		3.807	3.437	2.920	2.741	2.517	2.952	E6	19.38
6)	L1	1016{4}		2.756	2.500	2.139	2.006	1.837	2.154	E6	18.84
7)	L1	1016{5}		1.835	1.661	1.419	1.353	1.237	1.440	E6	18.24
8)	L7	1260{1}		5.459	4.841	4.119	3.890	3.559	4.192	E6	19.53
9)	L7	1260{2}		7.981	7.110	6.094	5.803	5.334	6.214	E6	18.27
10)	L7	1260{3}		5.121	4.563	3.903	3.753	3.420	3.989	E6	18.30
11)	L7	1260{4}		5.106	4.549	3.935	3.815	3.498	4.030	E6	16.95
12)	L7	1260{5}		1.092	0.904	0.816	0.799	0.735	0.845	E7	16.28
13)	L6	1254{1}		3.424	3.782	3.164	2.686	2.691	2.995	E6	18.95
14)	L6	1254{2}		3.688	4.055	3.437	2.986	2.997	3.279	E6	16.99
15)	L6	1254{3}		5.938	6.609	5.616	4.884	4.960	5.364	E6	16.13
16)	L6	1254{4}		4.522	5.119	4.367	3.799	3.859	4.153	E6	15.76
17)	L6	1254{5}		6.492	6.965	5.566	4.866	4.957	5.534	E6	18.31
18)	L5	1248{1}		2.262	2.084	1.960	1.793	1.670	1.844	E6	18.54
19)	L5	1248{2}		3.060	2.862	2.663	2.469	2.297	2.562	E6	14.78
20)	L5	1248{3}		2.062	1.963	1.846	1.711	1.600	1.766	E6	13.55
21)	L5	1248{4}		3.297	3.271	3.071	2.910	2.745	2.962	E6	10.72
22)	L5	1248{5}		3.250	3.260	3.083	2.824	2.620	2.859	E6	15.41
23)	L4	1242{1}		1.290	1.187	1.120	1.022	0.964	1.074	E6	14.50
24)	L4	1242{2}		3.944	3.611	3.322	3.128	2.938	3.277	E6	13.70
25)	L4	1242{3}		1.802	1.645	1.516	1.424	1.353	1.499	E6	13.42
26)	L4	1242{4}		2.254	2.028	1.857	1.725	1.633	1.833	E6	15.02
27)	L4	1242{5}		2.238	2.091	1.906	1.772	1.669	1.866	E6	14.38
28)	L3	1232{1}		7.536	7.445	7.167	6.643	5.930	6.606	E5	15.46
29)	L3	1232{2}		1.701	1.622	1.485	1.392	1.264	1.418	E6	17.08
30)	L3	1232{3}		1.197	1.133	1.049	0.988	0.900	1.006	E6	15.54
31)	L3	1232{4}		7.590	7.581	7.083	6.706	6.171	6.762	E5	12.48
32)	L3	1232{5}		1.056	1.093	1.034	0.995	0.920	0.984	E6	10.68
33)	L9	1268{1}		1.183	1.148	1.042	1.008	0.959	1.052	E7	8.92
34)	L9	1268{2}		1.251	1.183	1.070	1.025	0.963	1.071	E7	11.64
35)	L9	1268{3}		1.100	1.048	0.959	0.928	0.878	0.961	E7	9.99
36)	L9	1268{4}		3.191	3.507	3.076	2.766	2.570	2.925	E6	13.82
37)	L9	1268{5}		2.685	2.730	2.416	2.325	2.272	2.472	E7	7.71
38)	L2	1221{1}		1.005	1.085	0.987	0.971	0.889	0.954	E6	10.78
39)	L2	1221{2}		2.418	2.292	2.135	2.020	1.869	2.067	E6	13.37
40)	L2	1221{3}		2.921	2.962	3.051	3.030	2.892	2.909	E5	5.61
41)	L8	1262{1}		2.365	2.363	2.100	1.936	1.811	2.031	E6	14.93
42)	L8	1262{2}		5.515	5.404	4.782	4.435	4.153	4.674	E6	14.88
43)	L8	1262{3}		5.840	5.779	5.087	4.708	4.400	4.951	E6	15.58
44)	L8	1262{4}		5.256	5.185	4.624	4.298	4.064	4.523	E6	13.64
45)	L8	1262{5}		1.169	1.170	1.029	0.968	0.877	1.008	E7	14.17

Signal #2 Calibration Files
5 =I24E117030.d 10 =I24E117030.d 20 =I24E117031.d
50 =I24E117032.d 100 =I24E117033.d 200 =I24E117034.d

		Compound	5	10	20	50	100	200	Avg		%RSD
1)	S	Tetrachloro-m...	5.868	6.194	6.164	5.730	5.851	5.876	5.786	E7	7.95
2)	S	Decachlorobip...	5.043	5.520	5.129	4.827	4.981	5.017	4.981	E7	7.06
3)	L1	1016{1}		9.740	8.722	7.458	6.947	6.442	7.568	E5	18.58
4)	L1	1016{2}		3.874	3.573	3.166	3.027	2.925	3.237	E6	12.44
5)	L1	1016{3}		1.593	1.457	1.272	1.212	1.159	1.304	E6	13.99
6)	L1	1016{4}		2.189	1.929	1.647	1.527	1.443	1.687	E6	18.54
7)	L1	1016{5}		2.041	1.817	1.553	1.435	1.350	1.584	E6	18.29
8)	L7	1260{1}		4.334	3.883	3.330	3.208	3.032	3.452	E6	15.84
9)	L7	1260{2}		5.165	4.465	3.872	3.760	3.484	4.032	E6	16.52
10)	L7	1260{3}		3.820	3.366	2.905	2.804	2.666	3.024	E6	15.78

Method Path : C:\msdchem\1\methods\PCB Methods\
Method File : 9-PCB-042624C.M
Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
Last Update : Sun Apr 28 09:26:05 2024
Response Via : Initial Calibration

Calibration Files
5 =I24E117030.d 10 =I24E117030.d 20 =I24E117031.d
50 =I24E117032.d 100 =I24E117033.d 200 =I24E117034.d

	Compound	5	10	20	50	100	200	Avg		%RSD
11)	L7 1260{4}		4.224	3.740	3.277	3.196	3.065	3.413	E6	13.99
12)	L7 1260{5}		8.517	7.662	6.856	6.837	6.704	7.210	E6	10.20
13)	L6 1254{1}		2.955	3.248	2.762	2.350	2.408	2.637	E6	16.22
14)	L6 1254{2}		3.379	3.666	3.154	2.731	2.818	3.036	E6	14.68
15)	L6 1254{3}		2.631	2.944	2.524	2.222	2.320	2.446	E6	13.25
16)	L6 1254{4}		4.567	5.142	4.453	3.964	4.165	4.329	E6	11.84
17)	L6 1254{5}		5.122	5.757	4.891	4.375	4.562	4.788	E6	12.76
18)	L5 1248{1}		1.943	1.781	1.608	1.483	1.402	1.580	E6	15.88
19)	L5 1248{2}		2.379	2.229	2.070	1.942	1.853	2.033	E6	11.92
20)	L5 1248{3}		2.672	2.524	2.352	2.206	2.097	2.301	E6	11.68
21)	L5 1248{4}		2.742	2.581	2.429	2.300	2.235	2.400	E6	9.69
22)	L5 1248{5}		3.233	3.033	2.827	2.679	2.581	2.791	E6	10.97
23)	L4 1242{1}		9.239	8.237	7.434	6.832	6.468	7.392	E5	15.84
24)	L4 1242{2}		2.607	2.339	2.217	2.151	2.127	2.258	E6	8.45
25)	L4 1242{3}		1.045	0.951	0.895	0.854	0.841	0.904	E6	8.99
26)	L4 1242{4}		1.519	1.375	1.238	1.161	1.122	1.252	E6	13.19
27)	L4 1242{5}		1.490	1.344	1.223	1.154	1.125	1.241	E6	11.99
28)	L3 1232{1}		5.632	5.663	4.905	4.486	4.008	4.707	E5	18.26
29)	L3 1232{2}		6.360	6.074	5.557	5.302	4.922	5.483	E5	11.86
30)	L3 1232{3}		8.363	8.184	7.388	6.811	6.211	7.096	E5	15.34
31)	L3 1232{4}		8.672	8.336	7.454	6.976	6.459	7.326	E5	14.10
32)	L3 1232{5}		1.049	1.003	0.899	0.837	0.773	0.878	E6	15.09
33)	L9 1268{1}		8.577	8.424	7.992	8.028	7.897	8.220	E6	3.42
34)	L9 1268{2}		8.471	8.348	7.822	7.819	7.684	8.031	E6	3.95
35)	L9 1268{3}		7.818	7.663	7.194	7.280	7.171	7.448	E6	3.63
36)	L9 1268{4}		2.594	2.478	2.067	1.964	1.877	2.132	E6	15.30
37)	L9 1268{5}		2.004	2.040	1.961	2.012	1.991	2.028	E7	3.45
38)	L2 1221{1}		7.803	7.229	6.540	6.172	5.753	6.491	E5	13.79
39)	L2 1221{2}		5.382	5.001	4.529	4.184	3.815	4.399	E5	16.30
40)	L2 1221{3}		1.812	1.661	1.510	1.419	1.342	1.501	E6	13.66
41)	L8 1262{1}		1.695	1.633	1.420	1.317	1.256	1.417	E6	14.63
42)	L8 1262{2}		3.410	3.278	2.889	2.715	2.620	2.902	E6	12.66
43)	L8 1262{3}		4.027	3.927	3.505	3.343	3.269	3.535	E6	10.27
44)	L8 1262{4}		3.820	3.750	3.367	3.225	3.157	3.395	E6	9.44
45)	L8 1262{5}		7.621	7.629	7.123	6.964	6.925	7.195	E6	4.75

(#) = Out of Range ### Number of calibration levels exceeded format ###

DATA ANALYSIS PARAMETERS

Method Name: C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M

Percent Report Settings

Sort By: Signal

Output Destination
    Screen: No
    Printer: Yes
    File: No

Integration Events: AutoIntegrate

Generate Report During Run Method: Yes

Signal Correlation Window: 0.020

Quantitative Report Settings

Report Type: Summary

Output Destination
    Screen: Yes
    Printer: Yes
    File: epatemp.txt

Generate Report During Run Method: No

60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
Calibration Last Updated: Sun Apr 28 09:26:05 2024

Reference Window: 2.00 Minutes
Non-Reference Window: 1.00 Minutes
Correlation Window: 0.10 minutes
Default Multiplier: 1.00
Default Sample Concentration: 0.00

Compound Information

---

 1) Tetrachloro-m-xylene ( )
Ret. Time 3.078 min., Extract & Integrate from 3.048 to 3.108 min.

Lvl	ID	Conc (ug/L)	Response
5		5.000	373918146
10		10.000	711519387
20		20.000	1415275332
50		50.000	3205922568
100		100.000	6407078263
200		200.000	12536417303
500		500.000	26083488121

Curve Fit: Avg. RF

---

 2) Decachlorobiphenyl ( )

Ret. Time 7.218 min., Extract & Integrate from 7.188 to 7.248 min.

Lvl	ID	Conc (ug/L)	Response
5		5.000	310739607
10		10.000	645871928
20		20.000	1151512160
50		50.000	2627347453
100		100.000	5261728260
200		200.000	10440137476
500		500.000	23434594210

Curve Fit: Avg. RF

---

3) 1016{1} ( )

Ret. Time 3.817 min., Extract & Integrate from 3.787 to 3.847 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	11934812
20		20.000	22276755
50		50.000	47546309
100		100.000	88669480
200		200.000	162740721
500		500.000	370140603

Curve Fit: Avg. RF

---

4) 1016{2} ( )

Ret. Time 4.049 min., Extract & Integrate from 4.019 to 4.079 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	51659223
20		20.000	93713208
50		50.000	201559506
100		100.000	382306404
200		200.000	705635656
500		500.000	1622545286

Curve Fit: Avg. RF

---

5) 1016{3} ( )

Ret. Time 4.155 min., Extract & Integrate from 4.125 to 4.185 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	38068619
20		20.000	68730942
50		50.000	146020977
100		100.000	274145569
200		200.000	503350105
500		500.000	1145473473

Curve Fit: Avg. RF

---

6) 1016{4} ( )

Ret. Time 4.487 min., Extract & Integrate from 4.457 to 4.517 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	27560494
20		20.000	49996170
50		50.000	106943155
100		100.000	200633885
200		200.000	367346290
500		500.000	843253939

Curve Fit: Avg. RF
---

7) 1016{5} ( )
Ret. Time 4.557 min., Extract & Integrate from 4.527 to 4.587 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	18351944
20		20.000	33214293
50		50.000	70942177
100		100.000	135304741
200		200.000	247323244
500		500.000	569272440

Curve Fit: Avg. RF
---

8) 1260{1} ( )
Ret. Time 5.481 min., Extract & Integrate from 5.451 to 5.511 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	54585155
20		20.000	96812988
50		50.000	205937894
100		100.000	389034957
200		200.000	711791158
500		500.000	1641155849

Curve Fit: Avg. RF
---

9) 1260{2} ( )
Ret. Time 5.709 min., Extract & Integrate from 5.679 to 5.739 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	79812045
20		20.000	142204094
50		50.000	304708374
100		100.000	580250397
200		200.000	1066872911
500		500.000	2481632079

Curve Fit: Avg. RF
---

10) 1260{3} ( )
Ret. Time 6.023 min., Extract & Integrate from 5.993 to 6.053 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	51212069
20		20.000	91255499
50		50.000	195140273
100		100.000	375269855
200		200.000	684048821
500		500.000	1586097813

Curve Fit: Avg. RF
---

11) 1260{4} ( )
Ret. Time 6.205 min., Extract & Integrate from 6.175 to 6.235 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	51057656
20		20.000	90983505
50		50.000	196731926
100		100.000	381461512

200	200.000	699577850
500	500.000	1638680960

Curve Fit: Avg. RF

---

12) 1260{5} ( )

Ret. Time 6.413 min., Extract & Integrate from 6.383 to 6.443 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	109234406
20		20.000	180858419
50		50.000	407908774
100		100.000	798867443
200		200.000	1470158216
500		500.000	3616190772

Curve Fit: Avg. RF

---

13) 1254{1} ( )

Ret. Time 4.802 min., Extract & Integrate from 4.772 to 4.832 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	34236981
20		20.000	75638624
50		50.000	158179829
100		100.000	268569040
200		200.000	538134219
500		500.000	1112942058

Curve Fit: Avg. RF

---

14) 1254{2} ( )

Ret. Time 5.242 min., Extract & Integrate from 5.212 to 5.272 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	36877708
20		20.000	81095966
50		50.000	171837481
100		100.000	298582445
200		200.000	599403634
500		500.000	1254645816

Curve Fit: Avg. RF

---

15) 1254{3} ( )

Ret. Time 5.342 min., Extract & Integrate from 5.312 to 5.372 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	59379492
20		20.000	132185996
50		50.000	280799013
100		100.000	488402856
200		200.000	992058999
500		500.000	2089125477

Curve Fit: Avg. RF

---

16) 1254{4} ( )

Ret. Time 5.569 min., Extract & Integrate from 5.539 to 5.599 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	

10	10.000	45219817
20	20.000	102377231
50	50.000	218326397
100	100.000	379858488
200	200.000	771746697
500	500.000	1625182481

Curve Fit: Avg. RF

---

17) 1254{5} ( )

Ret. Time 5.949 min., Extract & Integrate from 5.919 to 5.979 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	64918647
20		20.000	139307984
50		50.000	278278652
100		100.000	486577455
200		200.000	991388835
500		500.000	2178588749

Curve Fit: Avg. RF

---

18) 1248{1} ( )

Ret. Time 4.308 min., Extract & Integrate from 4.278 to 4.338 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	22623591
20		20.000	41685025
50		50.000	97983944
100		100.000	179310071
200		200.000	334047171
500		500.000	645766552

Curve Fit: Avg. RF

---

19) 1248{2} ( )

Ret. Time 4.492 min., Extract & Integrate from 4.462 to 4.522 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	30598810
20		20.000	57238968
50		50.000	133168550
100		100.000	246889533
200		200.000	459403750
500		500.000	1011798978

Curve Fit: Avg. RF

---

20) 1248{3} ( )

Ret. Time 4.563 min., Extract & Integrate from 4.533 to 4.593 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	20624139
20		20.000	39259394
50		50.000	92278310
100		100.000	171149038
200		200.000	319992702
500		500.000	707697603

Curve Fit: Avg. RF

---

21) 1248{4} ( )

Ret. Time 4.836 min., Extract & Integrate from 4.806 to 4.866 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	32966325
20		20.000	65420537
50		50.000	153560298
100		100.000	291010766
200		200.000	549016722
500		500.000	1238845177

Curve Fit: Avg. RF

---

22) 1248{5} ( )
Ret. Time 4.862 min., Extract & Integrate from 4.832 to 4.892 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	32495649
20		20.000	65201802
50		50.000	154151824
100		100.000	282356590
200		200.000	524047435
500		500.000	1059165743

Curve Fit: Avg. RF

---

23) 1242{1} ( )
Ret. Time 3.842 min., Extract & Integrate from 3.812 to 3.872 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	12895518
20		20.000	23740164
50		50.000	55975107
100		100.000	102212519
200		200.000	192819991
500		500.000	430674457

Curve Fit: Avg. RF

---

24) 1242{2} ( )
Ret. Time 4.054 min., Extract & Integrate from 4.024 to 4.084 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	39440767
20		20.000	72227594
50		50.000	166118169
100		100.000	312839518
200		200.000	587674530
500		500.000	1359383479

Curve Fit: Avg. RF

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25) 1242{3} ( )
Ret. Time 4.213 min., Extract & Integrate from 4.183 to 4.243 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	18024543
20		20.000	32899813
50		50.000	75823950
100		100.000	142436402
200		200.000	270665706
500		500.000	625183896

Curve Fit: Avg. RF

3296

26) 1242{4} ( )
Ret. Time 4.492 min., Extract & Integrate from 4.462 to 4.522 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	22544121
20		20.000	40568831
50		50.000	92859635
100		100.000	172532049
200		200.000	326519142
500		500.000	750109732

Curve Fit: Avg. RF

27) 1242{5} ( )
Ret. Time 4.861 min., Extract & Integrate from 4.831 to 4.891 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	22379112
20		20.000	41820013
50		50.000	95316092
100		100.000	177177148
200		200.000	333832138
500		500.000	758459615

Curve Fit: Avg. RF

28) 1232{1} ( )
Ret. Time 3.843 min., Extract & Integrate from 3.813 to 3.873 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	7536247
20		20.000	14890302
50		50.000	35834985
100		100.000	66427536
200		200.000	118608939
500		500.000	245574498

Curve Fit: Avg. RF

29) 1232{2} ( )
Ret. Time 4.162 min., Extract & Integrate from 4.132 to 4.192 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	17011990
20		20.000	32446763
50		50.000	74239362
100		100.000	139234780
200		200.000	252865556
500		500.000	520232264

Curve Fit: Avg. RF

30) 1232{3} ( )
Ret. Time 4.493 min., Extract & Integrate from 4.463 to 4.523 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	11970073
20		20.000	22665376
50		50.000	52461655
100		100.000	98770519

200	200.000	179992933
500	500.000	384549246

Curve Fit: Avg. RF

---

31) 1232{4} ( )
Ret. Time 4.563 min., Extract & Integrate from 4.533 to 4.593 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	7590413
20		20.000	15162232
50		50.000	35416152
100		100.000	67060520
200		200.000	123421385
500		500.000	272000450

Curve Fit: Avg. RF

---

32) 1232{5} ( )
Ret. Time 4.837 min., Extract & Integrate from 4.807 to 4.867 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	10556223
20		20.000	21863589
50		50.000	51687974
100		100.000	99544106
200		200.000	183945697
500		500.000	403372603

Curve Fit: Avg. RF

---

33) 1268{1} ( )
Ret. Time 6.625 min., Extract & Integrate from 6.595 to 6.655 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	118349429
20		20.000	229511941
50		50.000	521124195
100		100.000	1008092810
200		200.000	1918981282
500		500.000	4842378782

Curve Fit: Avg. RF

---

34) 1268{2} ( )
Ret. Time 6.649 min., Extract & Integrate from 6.619 to 6.679 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	125054891
20		20.000	236660616
50		50.000	534876130
100		100.000	1024741787
200		200.000	1926536981
500		500.000	4664712436

Curve Fit: Avg. RF

---

35) 1268{3} ( )
Ret. Time 6.767 min., Extract & Integrate from 6.737 to 6.797 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	

10	10.000	110004086
20	20.000	209591416
50	50.000	479463637
100	100.000	928428665
200	200.000	1756623182
500	500.000	4273447146

Curve Fit: Avg. RF

---

36) 1268{4} ( )

Ret. Time 6.966 min., Extract & Integrate from 6.936 to 6.996 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	31909619
20		20.000	70131589
50		50.000	153792443
100		100.000	276639814
200		200.000	513929805
500		500.000	1220406605

Curve Fit: Avg. RF

---

37) 1268{5} ( )

Ret. Time 7.123 min., Extract & Integrate from 7.093 to 7.153 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	268486332
20		20.000	545986790
50		50.000	1207917207
100		100.000	2325465423
200		200.000	4543182755
500		500.000	12010304229

Curve Fit: Avg. RF

---

38) 1221{1} ( )

Ret. Time 3.224 min., Extract & Integrate from 3.194 to 3.254 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	10051128
20		20.000	21708325
50		50.000	49342422
100		100.000	97123822
200		200.000	177700702
500		500.000	394323507

Curve Fit: Avg. RF

---

39) 1221{2} ( )

Ret. Time 3.381 min., Extract & Integrate from 3.351 to 3.411 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	24182850
20		20.000	45841439
50		50.000	106760639
100		100.000	201993966
200		200.000	373822980
500		500.000	832588074

Curve Fit: Avg. RF

---

40) 1221{3} ( )

Ret. Time 3.778 min., Extract & Integrate from 3.748 to 3.808 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	2921373
20		20.000	5924859
50		50.000	15252893
100		100.000	30299331
200		200.000	57843282
500		500.000	130009987

Curve Fit: Avg. RF

---

41) 1262{1} ( )
Ret. Time 5.376 min., Extract & Integrate from 5.346 to 5.406 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	23653336
20		20.000	47268764
50		50.000	104996478
100		100.000	193632833
200		200.000	362179152
500		500.000	806209611

Curve Fit: Avg. RF

---

42) 1262{2} ( )
Ret. Time 5.714 min., Extract & Integrate from 5.684 to 5.744 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	55147580
20		20.000	108086508
50		50.000	239090932
100		100.000	443487941
200		200.000	830556144
500		500.000	1879085624

Curve Fit: Avg. RF

---

43) 1262{3} ( )
Ret. Time 6.033 min., Extract & Integrate from 6.003 to 6.063 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	58396333
20		20.000	115572328
50		50.000	254354100
100		100.000	470756654
200		200.000	879932105
500		500.000	1946867101

Curve Fit: Avg. RF

---

44) 1262{4} ( )
Ret. Time 6.215 min., Extract & Integrate from 6.185 to 6.245 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	52557082
20		20.000	103693193
50		50.000	231175698
100		100.000	429827004
200		200.000	812748431
500		500.000	1856632657

Curve Fit: Avg. RF
---

45) 1262{5} ( )
Ret. Time 6.424 min., Extract & Integrate from 6.394 to 6.454 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	116936790
20		20.000	233956154
50		50.000	514307592
100		100.000	968297045
200		200.000	1753155026
500		500.000	4166660453

Curve Fit: Avg. RF
---

46) Signal #2 ( )
Ret. Time 6.141 min., Extract & Integrate from 6.111 to 6.171 min.

Lvl	ID	Conc (ug/L)	Response
5		5.000	-1
10		10.000	-1
20		20.000	-1
50		50.000	-1
100		100.000	-1
200		200.000	-1
500		500.000	-1

Curve Fit: Avg. RF
---

47) Tetrachloro-m-xylene #2 ( )
Ret. Time 3.002 min., Extract & Integrate from 2.972 to 3.032 min.

Lvl	ID	Conc (ug/L)	Response
5		5.000	293409992
10		10.000	619361615
20		20.000	1232719451
50		50.000	2865029176
100		100.000	5851314858
200		200.000	11751790398
500		500.000	24082400222

Curve Fit: Avg. RF
---

48) Decachlorobiphenyl #2 ( )
Ret. Time 7.324 min., Extract & Integrate from 7.294 to 7.354 min.

Lvl	ID	Conc (ug/L)	Response
5		5.000	252168729
10		10.000	551977556
20		20.000	1025718117
50		50.000	2413534349
100		100.000	4980661165
200		200.000	10033908206
500		500.000	21738438776

Curve Fit: Avg. RF
---

49) 1016{1} #2 ( )
Ret. Time 3.868 min., Extract & Integrate from 3.838 to 3.898 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	9740221
20		20.000	17443919
50		50.000	37290829
100		100.000	69465429

200	200.000	128842066
500	500.000	304849297

Curve Fit: Avg. RF

---

50) 1016{2} #2 ( )

Ret. Time 4.071 min., Extract & Integrate from 4.041 to 4.101 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	38735182
20		20.000	71459518
50		50.000	158286680
100		100.000	302658649
200		200.000	585083144
500		500.000	1427483045

Curve Fit: Avg. RF

---

51) 1016{3} #2 ( )

Ret. Time 4.251 min., Extract & Integrate from 4.221 to 4.281 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	15929872
20		20.000	29130332
50		50.000	63615438
100		100.000	121219989
200		200.000	231899067
500		500.000	566245073

Curve Fit: Avg. RF

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52) 1016{4} #2 ( )

Ret. Time 4.547 min., Extract & Integrate from 4.517 to 4.577 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	21892480
20		20.000	38576936
50		50.000	82360980
100		100.000	152661707
200		200.000	288511223
500		500.000	692650201

Curve Fit: Avg. RF

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53) 1016{5} #2 ( )

Ret. Time 4.646 min., Extract & Integrate from 4.616 to 4.676 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	20412975
20		20.000	36339007
50		50.000	77657933
100		100.000	143499940
200		200.000	270047998
500		500.000	652259068

Curve Fit: Avg. RF

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54) 1260{1} #2 ( )

Ret. Time 5.565 min., Extract & Integrate from 5.535 to 5.595 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	

10	10.000	43339901
20	20.000	77652932
50	50.000	166488705
100	100.000	320795091
200	200.000	606438453
500	500.000	1461224057

Curve Fit: Avg. RF

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55) 1260{2} #2 ( )

Ret. Time 5.735 min., Extract & Integrate from 5.705 to 5.765 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	51652819
20		20.000	89304163
50		50.000	193576905
100		100.000	376026291
200		200.000	696889426
500		500.000	1721586773

Curve Fit: Avg. RF

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56) 1260{3} #2 ( )

Ret. Time 6.086 min., Extract & Integrate from 6.056 to 6.116 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	38199208
20		20.000	67316498
50		50.000	145251169
100		100.000	280396319
200		200.000	533206120
500		500.000	1290337070

Curve Fit: Avg. RF

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57) 1260{4} #2 ( )

Ret. Time 6.293 min., Extract & Integrate from 6.263 to 6.323 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	42235122
20		20.000	74795578
50		50.000	163842890
100		100.000	319624831
200		200.000	613072854
500		500.000	1488876036

Curve Fit: Avg. RF

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58) 1260{5} #2 ( )

Ret. Time 6.455 min., Extract & Integrate from 6.425 to 6.485 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	85168830
20		20.000	153236425
50		50.000	342781034
100		100.000	683651464
200		200.000	1340712310
500		500.000	3343776611

Curve Fit: Avg. RF

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59) 1254{1} #2 ( )

Ret. Time 4.885 min., Extract & Integrate from 4.855 to 4.915 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	29550259
20		20.000	64950701
50		50.000	138110923
100		100.000	235024460
200		200.000	481550539
500		500.000	1049240769

Curve Fit: Avg. RF

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60) 1254{2} #2 ( )
Ret. Time 5.037 min., Extract & Integrate from 5.007 to 5.067 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	33789595
20		20.000	73325316
50		50.000	157692664
100		100.000	273078929
200		200.000	563645937
500		500.000	1233234978

Curve Fit: Avg. RF

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61) 1254{3} #2 ( )
Ret. Time 5.319 min., Extract & Integrate from 5.289 to 5.349 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	26307778
20		20.000	58886563
50		50.000	126191622
100		100.000	222200709
200		200.000	463971693
500		500.000	1016795015

Curve Fit: Avg. RF

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62) 1254{4} #2 ( )
Ret. Time 5.414 min., Extract & Integrate from 5.384 to 5.444 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	45665318
20		20.000	102847135
50		50.000	222671809
100		100.000	396406264
200		200.000	832940949
500		500.000	1840895463

Curve Fit: Avg. RF

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63) 1254{5} #2 ( )
Ret. Time 6.028 min., Extract & Integrate from 5.998 to 6.058 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	51222856
20		20.000	115142488
50		50.000	244552502
100		100.000	437548115
200		200.000	912408469
500		500.000	2011480964

Curve Fit: Avg. RF
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64) 1248{1} #2 ( )
Ret. Time 4.333 min., Extract & Integrate from 4.303 to 4.363 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	19428216
20		20.000	35626274
50		50.000	80391683
100		100.000	148345651
200		200.000	280408449
500		500.000	631347496

Curve Fit: Avg. RF
---

65) 1248{2} #2 ( )
Ret. Time 4.548 min., Extract & Integrate from 4.518 to 4.578 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	23788763
20		20.000	44579400
50		50.000	103484062
100		100.000	194197982
200		200.000	370647617
500		500.000	863374862

Curve Fit: Avg. RF
---

66) 1248{3} #2 ( )
Ret. Time 4.646 min., Extract & Integrate from 4.616 to 4.676 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	26716482
20		20.000	50473384
50		50.000	117612305
100		100.000	220564854
200		200.000	419347264
500		500.000	976733269

Curve Fit: Avg. RF
---

67) 1248{4} #2 ( )
Ret. Time 4.851 min., Extract & Integrate from 4.821 to 4.881 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	27416705
20		20.000	51621455
50		50.000	121437263
100		100.000	230018827
200		200.000	447063995
500		500.000	1055963554

Curve Fit: Avg. RF
---

68) 1248{5} #2 ( )
Ret. Time 4.889 min., Extract & Integrate from 4.859 to 4.919 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	32334069
20		20.000	60661757
50		50.000	141329079
100		100.000	267899756

200	200.000	516286173
500	500.000	1197598750

Curve Fit: Avg. RF

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69) 1242{1} #2 ( )

Ret. Time 3.902 min., Extract & Integrate from 3.872 to 3.932 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	9238681
20		20.000	16474217
50		50.000	37169037
100		100.000	68324694
200		200.000	129354051
500		500.000	307187644

Curve Fit: Avg. RF

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70) 1242{2} #2 ( )

Ret. Time 4.072 min., Extract & Integrate from 4.042 to 4.101 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	26071512
20		20.000	46776170
50		50.000	110854509
100		100.000	215145997
200		200.000	425489301
500		500.000	1052280943

Curve Fit: Avg. RF

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71) 1242{3} #2 ( )

Ret. Time 4.258 min., Extract & Integrate from 4.228 to 4.288 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	10449430
20		20.000	19022376
50		50.000	44743670
100		100.000	85368021
200		200.000	168198034
500		500.000	419104882

Curve Fit: Avg. RF

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72) 1242{4} #2 ( )

Ret. Time 4.548 min., Extract & Integrate from 4.518 to 4.578 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	15187267
20		20.000	27509429
50		50.000	61908058
100		100.000	116089686
200		200.000	224450768
500		500.000	547661534

Curve Fit: Avg. RF

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73) 1242{5} #2 ( )

Ret. Time 4.851 min., Extract & Integrate from 4.821 to 4.881 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	

10	10.000	14900267
20	20.000	26888807
50	50.000	61166662
100	100.000	115422596
200	200.000	225031563
500	500.000	555664037

Curve Fit: Avg. RF

---

74) 1232{1} #2 ( )

Ret. Time 3.902 min., Extract & Integrate from 3.872 to 3.932 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	5631716
20		20.000	11325647
50		50.000	24525274
100		100.000	44859036
200		200.000	80156858
500		500.000	177318625

Curve Fit: Avg. RF

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75) 1232{2} #2 ( )

Ret. Time 4.258 min., Extract & Integrate from 4.228 to 4.288 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	6360311
20		20.000	12148162
50		50.000	27782857
100		100.000	53023767
200		200.000	98441993
500		500.000	234100638

Curve Fit: Avg. RF

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76) 1232{3} #2 ( )

Ret. Time 4.547 min., Extract & Integrate from 4.517 to 4.577 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	8362823
20		20.000	16368233
50		50.000	36938032
100		100.000	68112073
200		200.000	124227617
500		500.000	280920973

Curve Fit: Avg. RF

---

77) 1232{4} #2 ( )

Ret. Time 4.851 min., Extract & Integrate from 4.821 to 4.881 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	8672444
20		20.000	16671120
50		50.000	37269325
100		100.000	69764921
200		200.000	129186703
500		500.000	302795854

Curve Fit: Avg. RF

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78) 1232{5} #2 ( )

Ret. Time 4.889 min., Extract & Integrate from 4.859 to 4.919 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	10490147
20		20.000	20055338
50		50.000	44968613
100		100.000	83734395
200		200.000	154632254
500		500.000	352597384

Curve Fit: Avg. RF

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79) 1268{1} #2 ( )
Ret. Time 6.682 min., Extract & Integrate from 6.652 to 6.712 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	85765465
20		20.000	168488804
50		50.000	399618892
100		100.000	802837228
200		200.000	1579438972
500		500.000	4201808481

Curve Fit: Avg. RF

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80) 1268{2} #2 ( )
Ret. Time 6.710 min., Extract & Integrate from 6.680 to 6.740 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	84713002
20		20.000	166968814
50		50.000	391085298
100		100.000	781906872
200		200.000	1536766008
500		500.000	4020826052

Curve Fit: Avg. RF

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81) 1268{3} #2 ( )
Ret. Time 6.856 min., Extract & Integrate from 6.827 to 6.886 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	78180306
20		20.000	153263524
50		50.000	359678664
100		100.000	728028194
200		200.000	1434121854
500		500.000	3779759027

Curve Fit: Avg. RF

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82) 1268{4} #2 ( )
Ret. Time 7.009 min., Extract & Integrate from 6.979 to 7.039 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	25944049
20		20.000	49559607
50		50.000	103328279
100		100.000	196440869
200		200.000	375455969
500		500.000	906651712

Curve Fit: Avg. RF
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83) 1268{5} #2 ( )
Ret. Time 7.183 min., Extract & Integrate from 7.153 to 7.213 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	200401442
20		20.000	408017169
50		50.000	980425313
100		100.000	2012368232
200		200.000	3982461643
500		500.000	10803986734

Curve Fit: Avg. RF
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84) 1221{1} #2 ( )
Ret. Time 3.231 min., Extract & Integrate from 3.201 to 3.261 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	7803234
20		20.000	14458937
50		50.000	32701909
100		100.000	61719945
200		200.000	115066483
500		500.000	272327118

Curve Fit: Avg. RF
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85) 1221{2} #2 ( )
Ret. Time 3.342 min., Extract & Integrate from 3.312 to 3.372 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	5381680
20		20.000	10001610
50		50.000	22643490
100		100.000	41840062
200		200.000	76309705
500		500.000	174118832

Curve Fit: Avg. RF
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86) 1221{3} #2 ( )
Ret. Time 3.390 min., Extract & Integrate from 3.360 to 3.420 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	18117459
20		20.000	33217589
50		50.000	75483774
100		100.000	141918522
200		200.000	268459541
500		500.000	632103000

Curve Fit: Avg. RF
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87) 1262{1} #2 ( )
Ret. Time 5.443 min., Extract & Integrate from 5.413 to 5.473 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	16949512
20		20.000	32669864
50		50.000	70997748
100		100.000	131710046

200	200.000	251264253
500	500.000	591189938

Curve Fit: Avg. RF

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88) 1262{2} #2 ( )

Ret. Time 5.743 min., Extract & Integrate from 5.713 to 5.773 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	34097363
20		20.000	65562060
50		50.000	144429489
100		100.000	271514282
200		200.000	524008883
500		500.000	1250187958

Curve Fit: Avg. RF

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89) 1262{3} #2 ( )

Ret. Time 6.093 min., Extract & Integrate from 6.063 to 6.123 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	40270494
20		20.000	78546942
50		50.000	175225887
100		100.000	334316248
200		200.000	653769857
500		500.000	1570893468

Curve Fit: Avg. RF

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90) 1262{4} #2 ( )

Ret. Time 6.301 min., Extract & Integrate from 6.271 to 6.331 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	38204003
20		20.000	75006091
50		50.000	168352211
100		100.000	322481417
200		200.000	631479474
500		500.000	1524305629

Curve Fit: Avg. RF

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91) 1262{5} #2 ( )

Ret. Time 6.462 min., Extract & Integrate from 6.432 to 6.492 min.

Lvl	ID	Conc (ug/L)	Response
5		not used for this compound	
10		10.000	76210039
20		20.000	152585836
50		50.000	356169485
100		100.000	696407210
200		200.000	1384961270
500		500.000	3453002965

Curve Fit: Avg. RF

END OF DATA ANALYSIS PARAMETERS

Quantitation Report (Not Reviewed)

3311

Data Path : C:\msdchem\1\data\042624\
Data File : I24E117011.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 10:54 am
Operator : PJG
Sample : 1260/1016 5 Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:15:27 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:14:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	3.078	2.996	373.9E6	293.4E6	NoCal	NoCal
2) S	Decachlor...	7.217	7.318	310.7E6	252.2E6	NoCal	NoCal
	Target Compounds						
3) L1	1016{1}	3.817	3.869	5811548	4686348	NoCal	NoCal
4) L1	1016{2}	4.051	4.065	25405714	19134758	NoCal	NoCal
5) L1	1016{3}	4.157	4.251	18627223	7683814	NoCal	NoCal
6) L1	1016{4}	4.487	4.540	13749365	10564761	NoCal	NoCal
7) L1	1016{5}	4.558	4.639	8794009	9881661	NoCal	NoCal
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	5.484	5.565	27004656	21481157	NoCal	NoCal
9) L7	1260{2}	5.713	5.735	39583890	26099881	NoCal	NoCal
10) L7	1260{3}	6.027	6.085	25029000	18799859	NoCal	NoCal
11) L7	1260{4}	6.207	6.293	24968366	20652392	NoCal	NoCal
12) L7	1260{5}	6.416	6.455	49270376	41458538	NoCal	NoCal
Sum	1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D.
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\042624\
Data File : I24E117011.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 10:54 am
Operator : PJG
Sample : 1260/1016 5 Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 11 Sample Multiplier: 1

3312

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:15:27 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:14:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40)	L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D. d	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

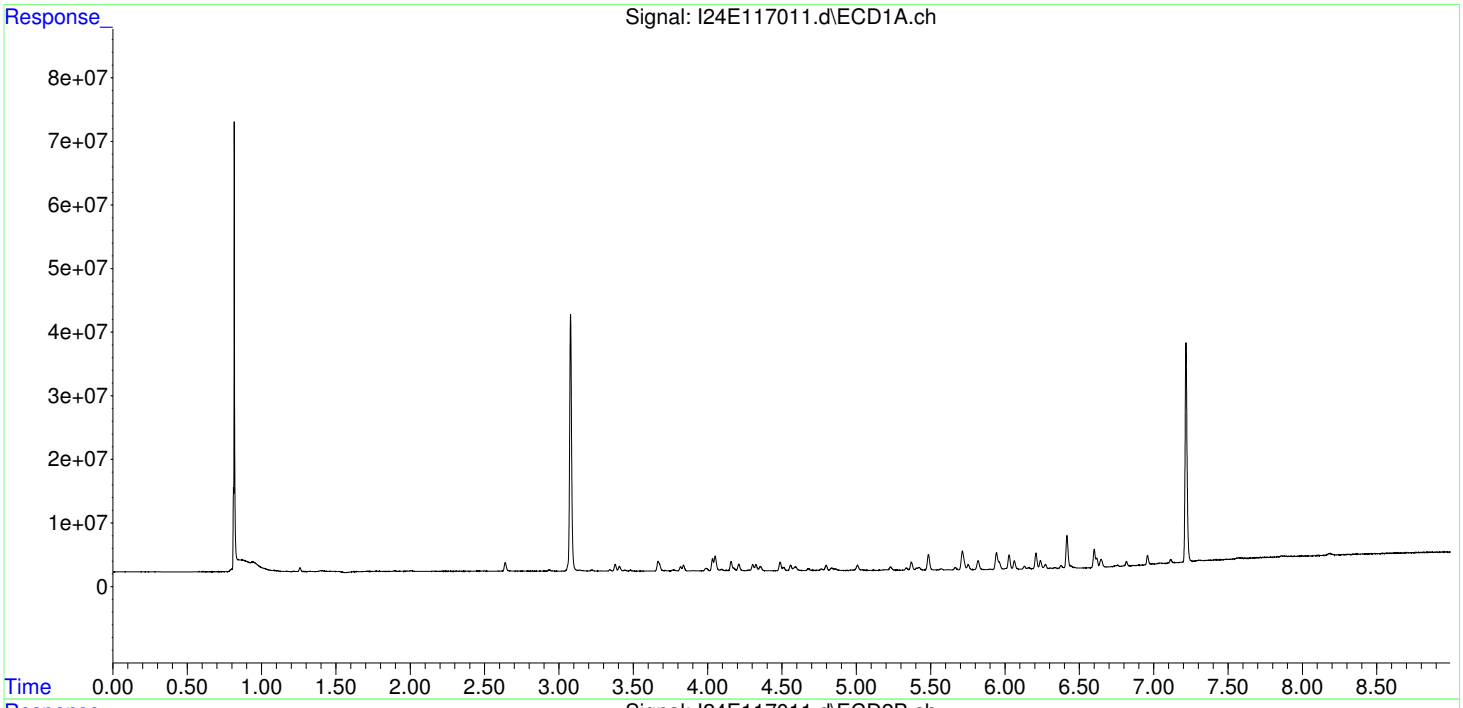
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

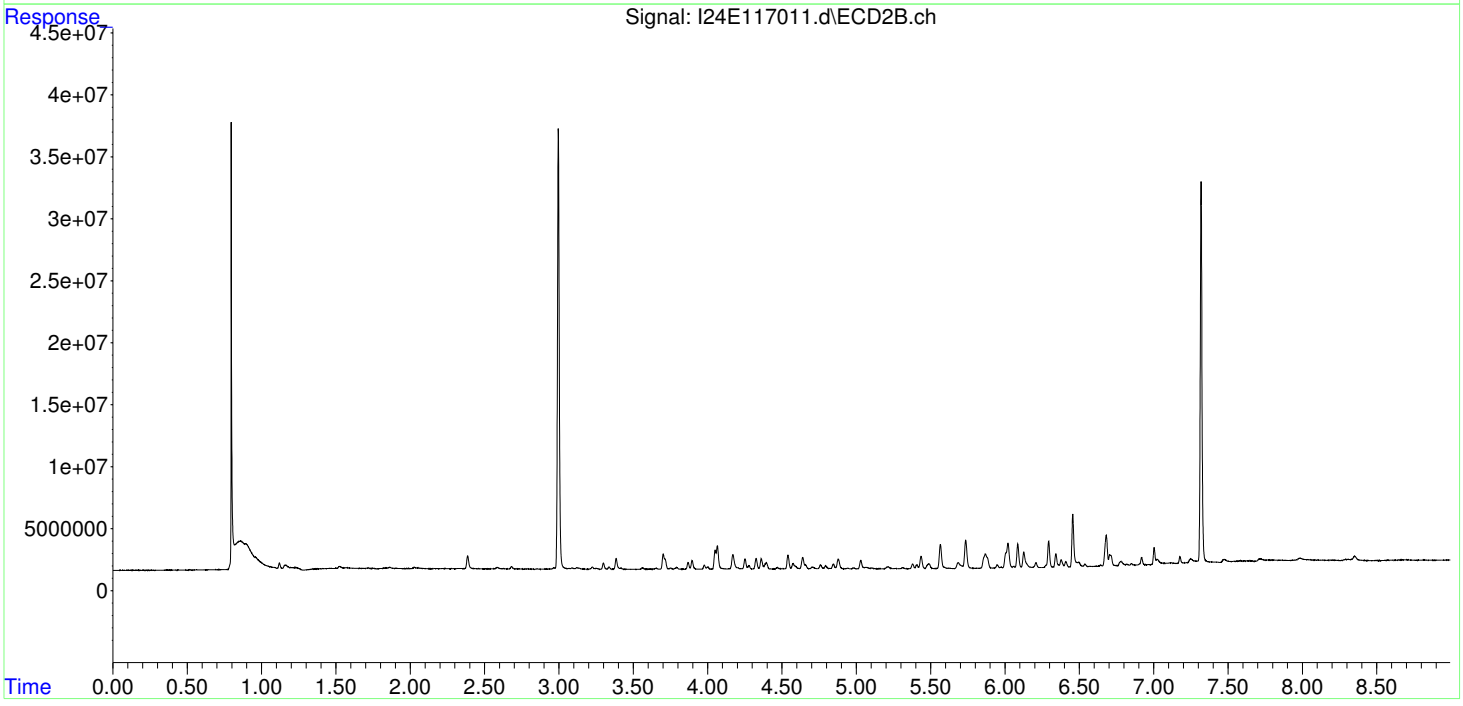
Data Path : C:\msdchem\1\data\042624\
Data File : I24E117011.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 10:54 am
Operator : PJG
Sample : 1260/1016 5 Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 11 Sample Multiplier: 1

3313

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:15:27 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:14:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

3314

Data Path : C:\msdchem\1\data\042624\
Data File : I24E117012.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 11:06 am
Operator : PJG
Sample : 1260/1016 10 Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:15:27 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:15:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	3.076	2.997	711.5E6	619.4E6	9.514	10.555
2) S	Decachlor...	7.215	7.317	645.9E6	552.0E6	10.392	10.945
	Target Compounds						
3) L1	1016{1}	3.816	3.869	11934812	9740221	NoCal	NoCal
4) L1	1016{2}	4.050	4.066	51659223	38735182	NoCal	NoCal
5) L1	1016{3}	4.156	4.252	38068619	15929872	NoCal	NoCal
6) L1	1016{4}	4.486	4.541	27560494	21892480	NoCal	NoCal
7) L1	1016{5}	4.556	4.639	18351944	20412975	NoCal	NoCal
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	5.483	5.564	54585155	43339901	NoCal	NoCal
9) L7	1260{2}	5.711	5.735	79812045	51652819	NoCal	NoCal
10) L7	1260{3}	6.025	6.085	51212069	38199208	NoCal	NoCal
11) L7	1260{4}	6.206	6.293	51057656	42235122	NoCal	NoCal
12) L7	1260{5}	6.414	6.455	109.2E6	85168830	NoCal	NoCal
Sum	1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\042624\
Data File : I24E117012.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 11:06 am
Operator : PJG
Sample : 1260/1016 10 Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 12 Sample Multiplier: 1

3315

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:15:27 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:15:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40)	L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D. d	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

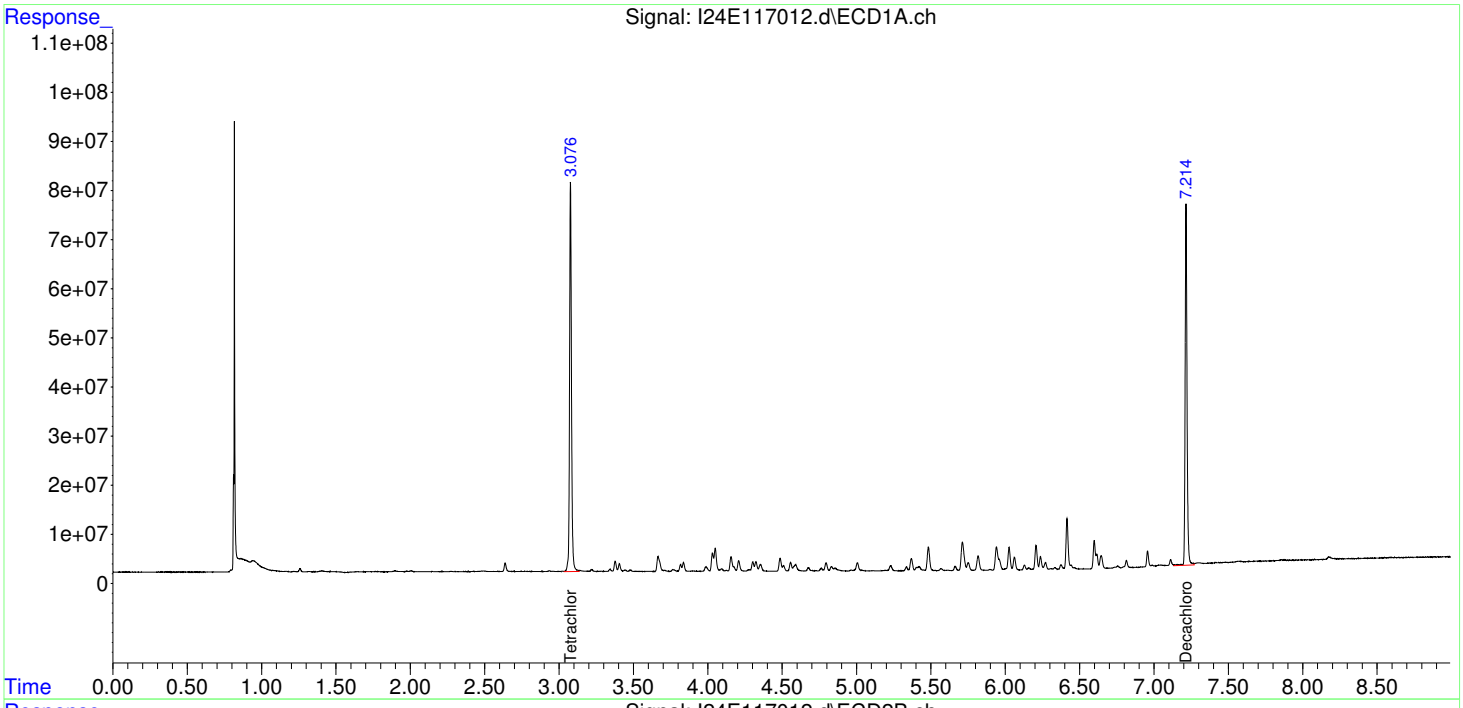
Quantitation Report (Not Reviewed)

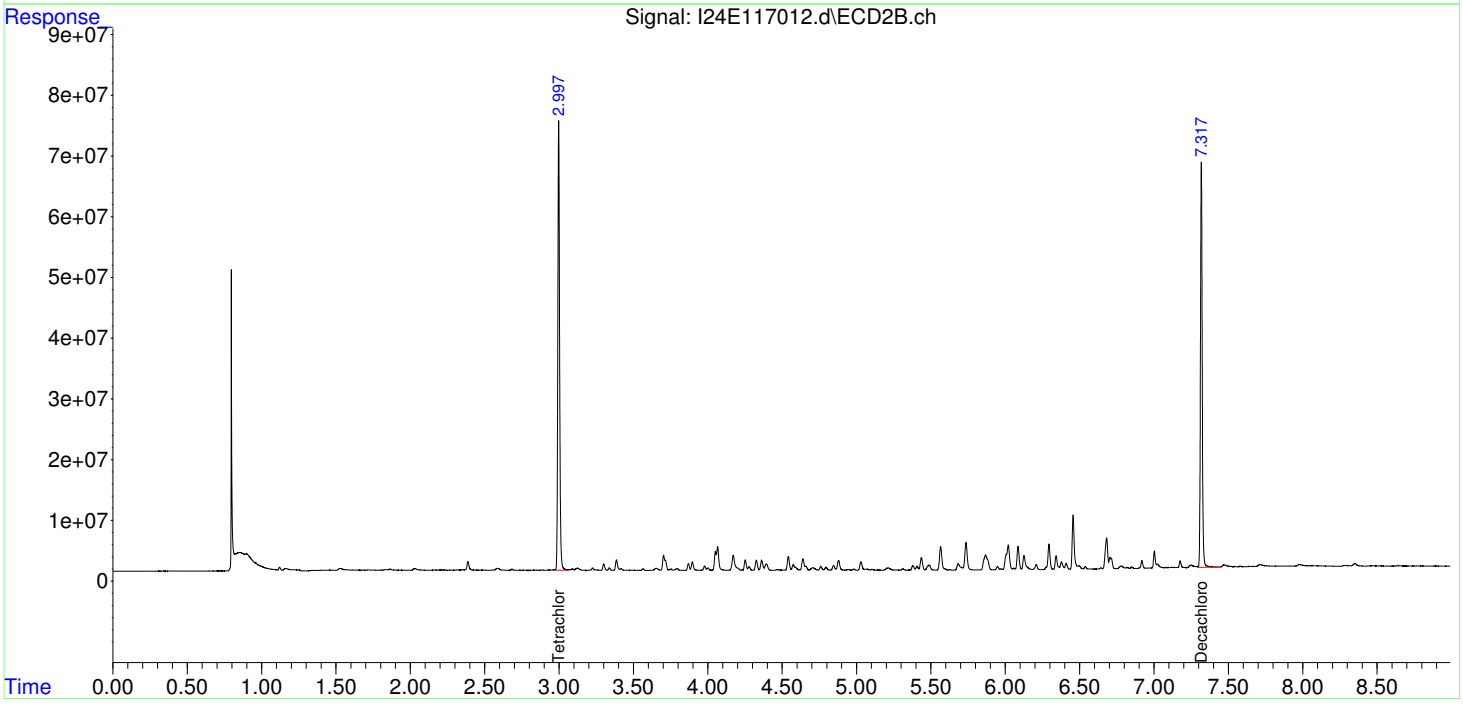
3316

Data Path : C:\msdchem\1\data\042624\
Data File : I24E117012.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 11:06 am
Operator : PJG
Sample : 1260/1016 10 Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:15:27 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:15:27 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

3317

Data Path : C:\msdchem\1\data\042624\
Data File : I24E117013.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 11:18 am
Operator : PJG
Sample : 1260/1016 20 Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:15:28 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:15:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	3.076	2.997	1415.3E6	1232.7E6	19.396	20.440
2) S	Decachlor...	7.215	7.317	1151.5E6	1025.7E6	18.172	19.421
	Target Compounds						
3) L1	1016{1}	3.815	3.869	22276755	17443919	18.665	17.909
4) L1	1016{2}	4.048	4.066	93713208	71459518	18.141	18.448
5) L1	1016{3}	4.155	4.251	68730942	29130332	18.054	18.287
6) L1	1016{4}	4.485	4.540	49996170	38576936	18.141	17.621
7) L1	1016{5}	4.555	4.639	33214293	36339007	18.099	17.802
Sum	1016			267.9E6	192.9E6	91.100	90.067
Average	1016					18.220	18.013
8) L7	1260{1}	5.482	5.564	96812988	77652932	17.736	17.917
9) L7	1260{2}	5.710	5.735	142.2E6	89304163	17.817	17.289
10) L7	1260{3}	6.024	6.085	91255499	67316498	17.819	17.622
11) L7	1260{4}	6.205	6.293	90983505	74795578	17.820	17.709
12) L7	1260{5}	6.414	6.455	180.9E6	153.2E6	16.557	17.992
Sum	1260			602.1E6	462.3E6	87.749	88.530
Average	1260					17.550	17.706
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\042624\
Data File : I24E117013.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 11:18 am
Operator : PJG
Sample : 1260/1016 20 Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 13 Sample Multiplier: 1

3318

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:15:28 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:15:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40)	L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D. d	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

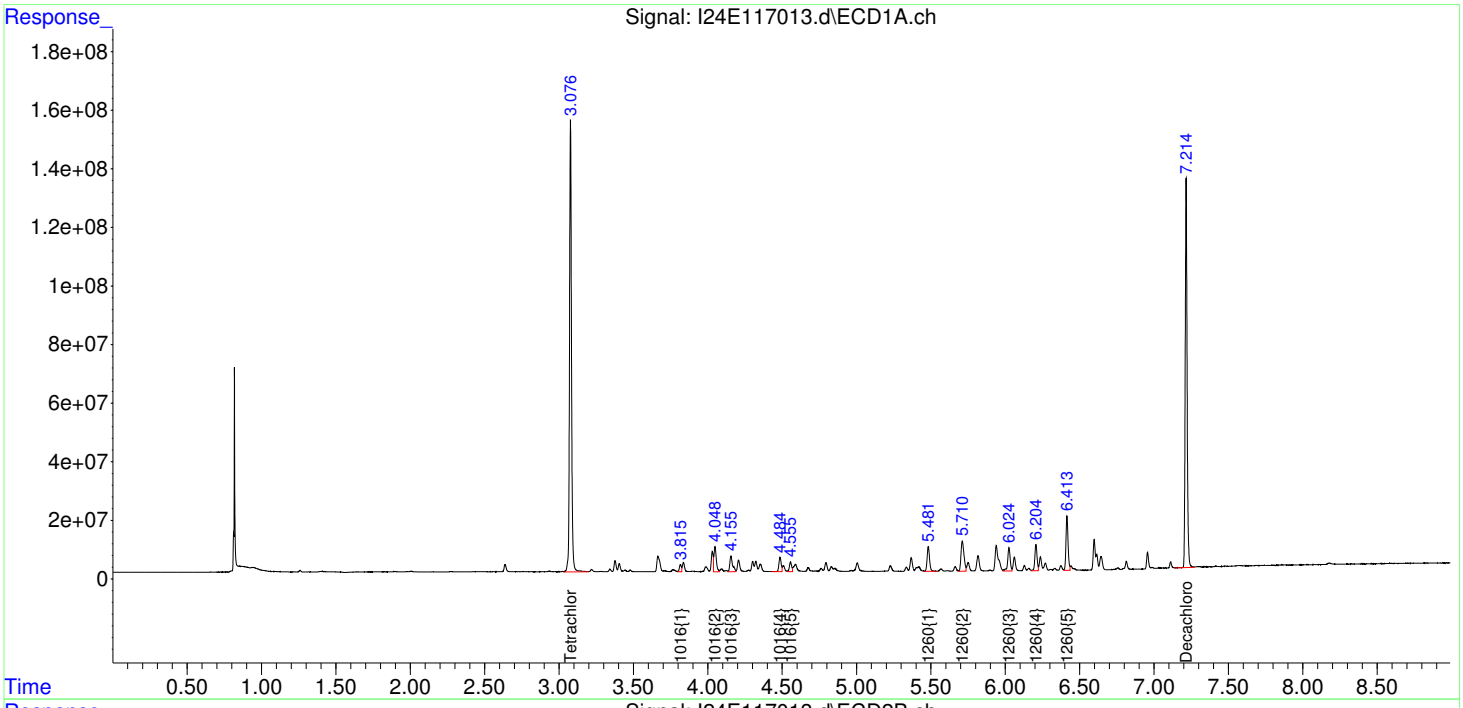
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

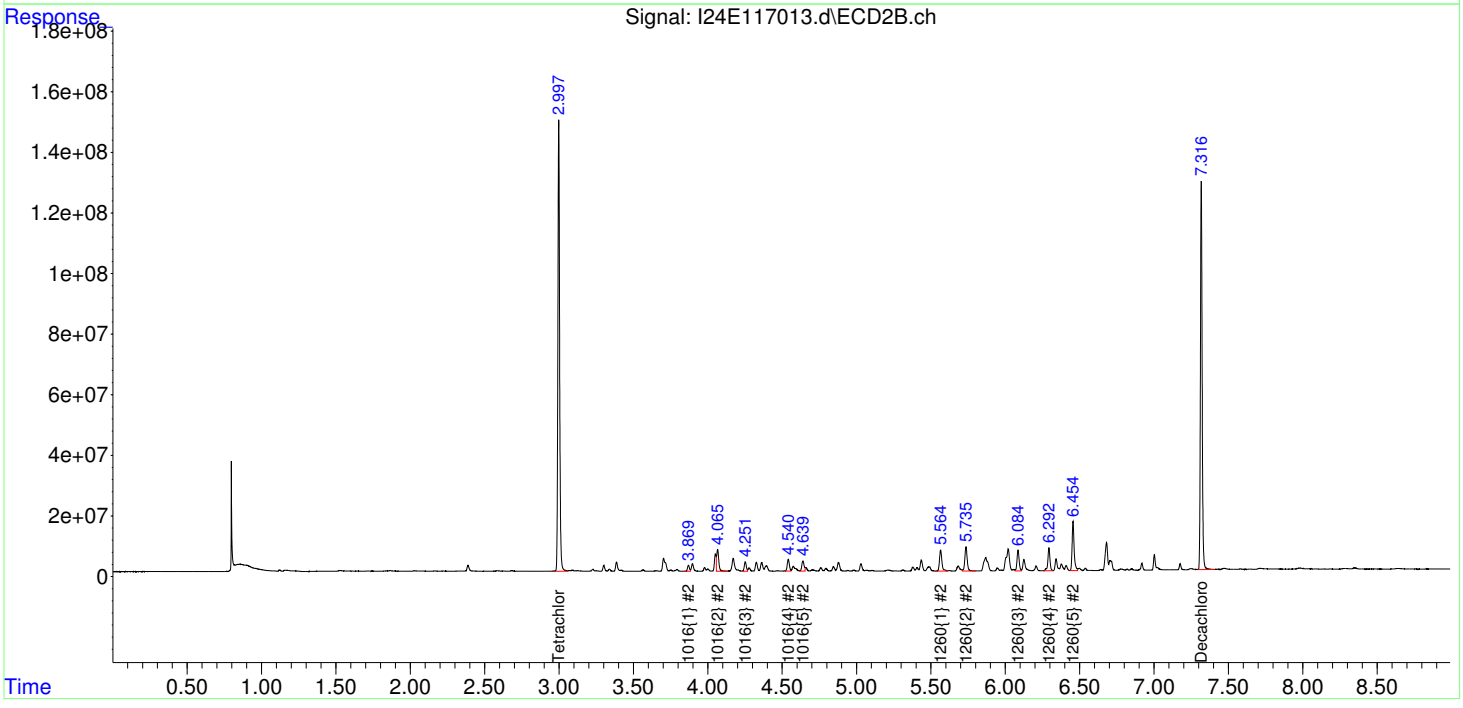
Data Path : C:\msdchem\1\data\042624\
Data File : I24E117013.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 11:18 am
Operator : PJG
Sample : 1260/1016 20 Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 13 Sample Multiplier: 1

3319

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:15:28 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:15:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

3320

Data Path : C:\msdchem\1\data\042624\
Data File : I24E117014.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 11:30 am
Operator : PJG
Sample : 1260/1016 50 Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:15:29 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:15:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	3.078	2.997	3205.9E6	2865.0E6	44.383	47.160
2) S	Decachlor...	7.216	7.318	2627.3E6	2413.5E6	42.765	46.143
	Target Compounds						
3) L1	1016{1}	3.817	3.869	47546309	37290829	41.213	40.397
4) L1	1016{2}	4.049	4.065	201.6E6	158.3E6	40.919	42.513
5) L1	1016{3}	4.156	4.251	146.0E6	63615438	40.318	41.722
6) L1	1016{4}	4.486	4.541	106.9E6	82360980	40.695	40.000
7) L1	1016{5}	4.557	4.639	70942177	77657933	40.586	40.256
Sum	1016			573.0E6	419.2E6	203.732	204.887
Average	1016					40.746	40.977
8) L7	1260{1}	5.483	5.564	205.9E6	166.5E6	39.991	40.525
9) L7	1260{2}	5.711	5.735	304.7E6	193.6E6	40.382	40.201
10) L7	1260{3}	6.025	6.085	195.1E6	145.3E6	40.302	40.428
11) L7	1260{4}	6.206	6.293	196.7E6	163.8E6	40.753	41.150
12) L7	1260{5}	6.415	6.455	407.9E6	342.8E6	40.860	42.374
Sum	1260			1310.4E6	1011.9E6	202.287	204.677
Average	1260					40.457	40.935
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

3321

Data Path : C:\msdchem\1\data\042624\
Data File : I24E117014.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 11:30 am
Operator : PJG
Sample : 1260/1016 50 Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:15:29 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:15:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40)	L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D. d	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

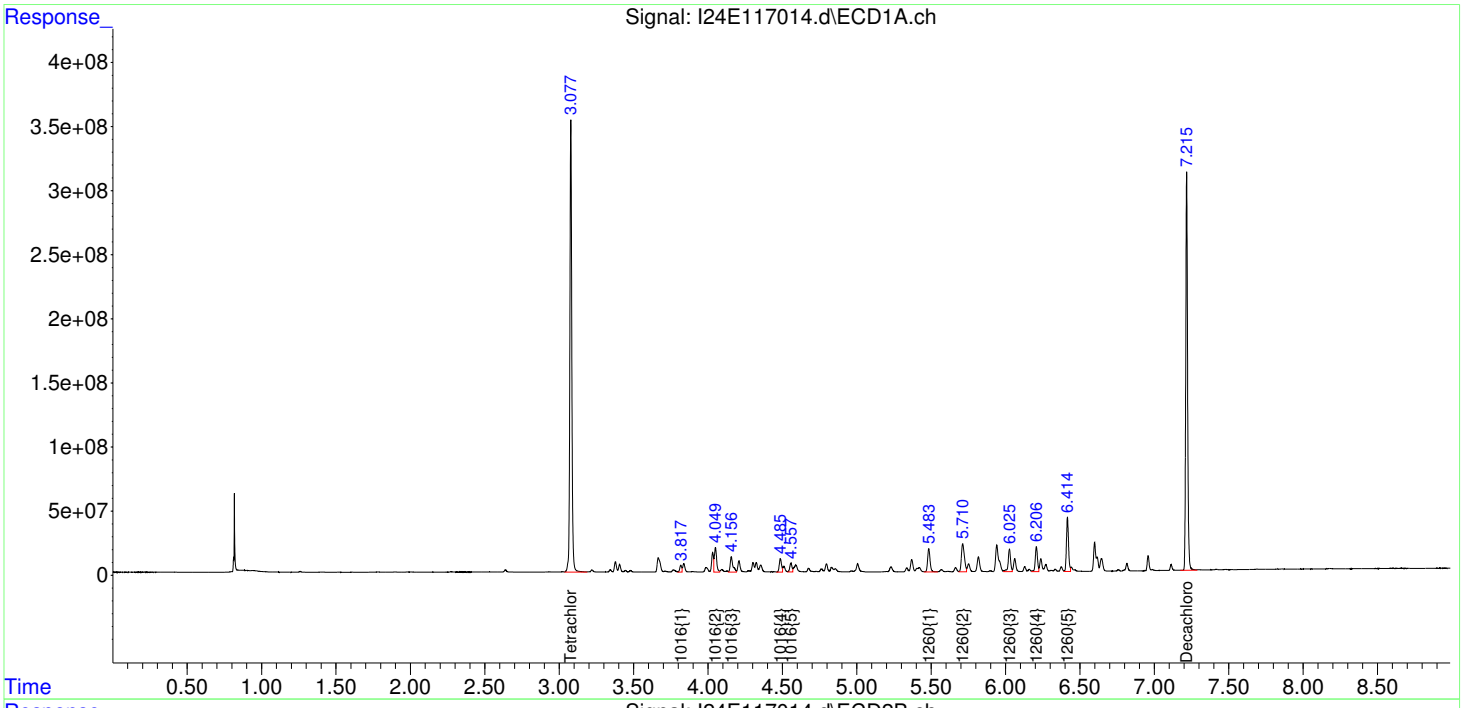
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

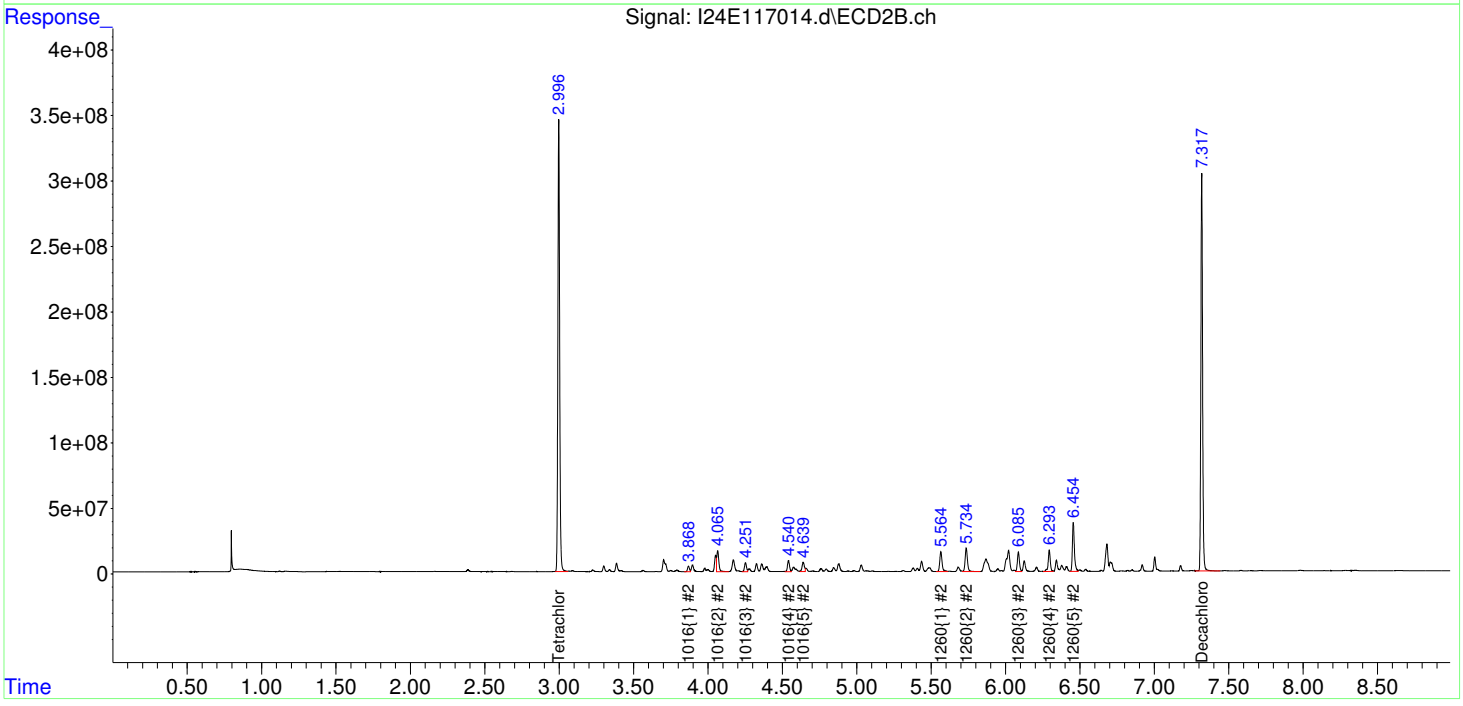
Data Path : C:\msdchem\1\data\042624\
Data File : I24E117014.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 11:30 am
Operator : PJG
Sample : 1260/1016 50 Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 14 Sample Multiplier: 1

3322

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:15:29 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:15:28 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

3323

Data Path : C:\msdchem\1\data\042624\
Data File : I24E117015.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 11:42 am
Operator : PJG
Sample : 1260/1016 100 Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:15:29 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:15:29 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	3.077	2.997	6407.1E6	5851.3E6	91.263	97.703
2) S	Decachlor...	7.215	7.317	5261.7E6	4980.7E6	88.859	97.095
	Target Compounds						
3) L1	1016{1}	3.816	3.868	88669480	69465429	81.642	80.399
4) L1	1016{2}	4.049	4.065	382.3E6	302.7E6	82.615	85.559
5) L1	1016{3}	4.155	4.251	274.1E6	121.2E6	80.918	84.145
6) L1	1016{4}	4.486	4.540	200.6E6	152.7E6	81.396	79.438
7) L1	1016{5}	4.556	4.639	135.3E6	143.5E6	82.591	79.554
Sum	1016			1081.1E6	789.5E6	409.161	409.096
Average	1016					81.832	81.819
8) L7	1260{1}	5.482	5.565	389.0E6	320.8E6	80.948	83.349
9) L7	1260{2}	5.710	5.735	580.3E6	376.0E6	82.167	83.549
10) L7	1260{3}	6.025	6.085	375.3E6	280.4E6	82.861	83.362
11) L7	1260{4}	6.206	6.293	381.5E6	319.6E6	84.210	85.308
12) L7	1260{5}	6.415	6.455	798.9E6	683.7E6	85.214	89.039
Sum	1260			2524.9E6	1980.5E6	415.400	424.607
Average	1260					83.080	84.921
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\042624\
Data File : I24E117015.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 11:42 am
Operator : PJG
Sample : 1260/1016 100 Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 15 Sample Multiplier: 1

3324

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:15:29 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:15:29 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40)	L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D. d	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

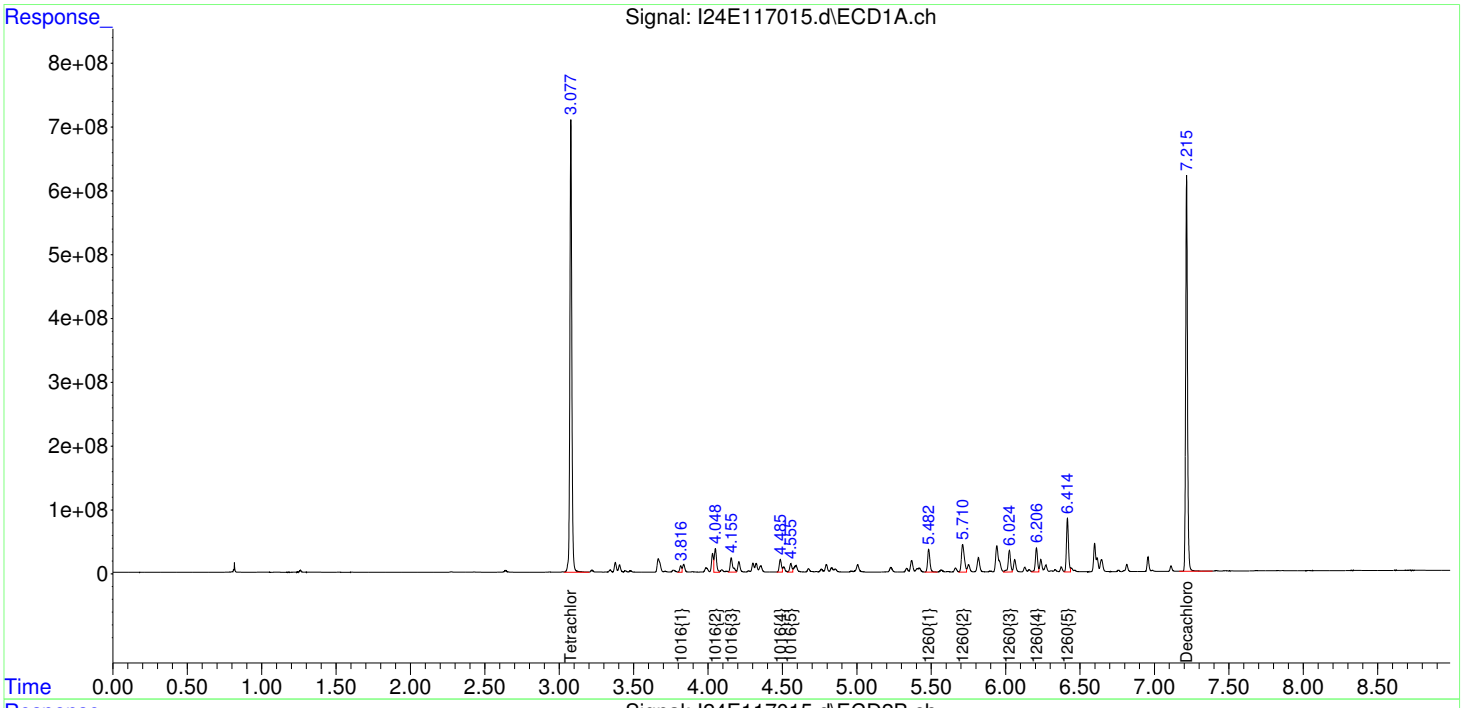
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

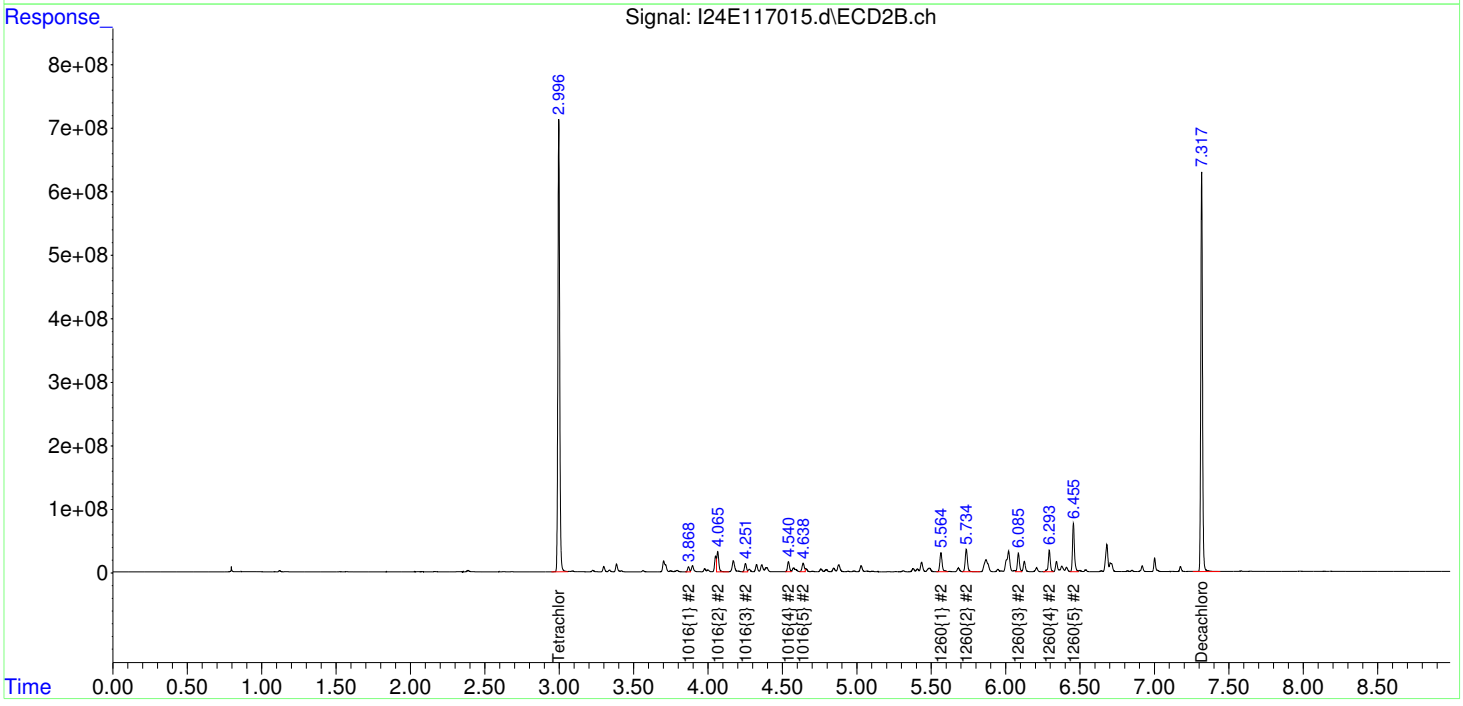
Data Path : C:\msdchem\1\data\042624\
Data File : I24E117015.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 11:42 am
Operator : PJG
Sample : 1260/1016 100 Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 15 Sample Multiplier: 1

3325

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:15:29 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:15:29 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

3326

Data Path : C:\msdchem\1\data\042624\
Data File : I24E117016.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 11:55 am
Operator : PJG
Sample : 1260/1016 200 Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:15:30 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:15:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	3.079	2.997	12536.4E6	11751.8E6	181.746	197.133
2) S	Decachlor...	7.216	7.318	10440.1E6	10033.9E6	180.329	196.747
	Target Compounds						
3) L1	1016{1}	3.817	3.868	162.7E6	128.8E6	157.050	156.805
4) L1	1016{2}	4.049	4.065	705.6E6	585.1E6	159.413	171.594
5) L1	1016{3}	4.155	4.251	503.4E6	231.9E6	156.014	167.617
6) L1	1016{4}	4.485	4.540	367.3E6	288.5E6	156.300	158.263
7) L1	1016{5}	4.556	4.638	247.3E6	270.0E6	157.837	157.775
Sum	1016			1986.4E6	1504.4E6	786.614	812.054
Average	1016					157.323	162.411
8) L7	1260{1}	5.483	5.565	711.8E6	606.4E6	155.512	164.409
9) L7	1260{2}	5.711	5.735	1066.9E6	696.9E6	158.125	161.482
10) L7	1260{3}	6.025	6.085	684.0E6	533.2E6	157.801	165.403
11) L7	1260{4}	6.206	6.293	699.6E6	613.1E6	160.784	169.869
12) L7	1260{5}	6.414	6.455	1470.2E6	1340.7E6	162.839	179.535
Sum	1260			4632.4E6	3790.3E6	795.061	840.698
Average	1260					159.012	168.140
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\042624\
Data File : I24E117016.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 11:55 am
Operator : PJG
Sample : 1260/1016 200 Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:15:30 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:15:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40)	L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D. d	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

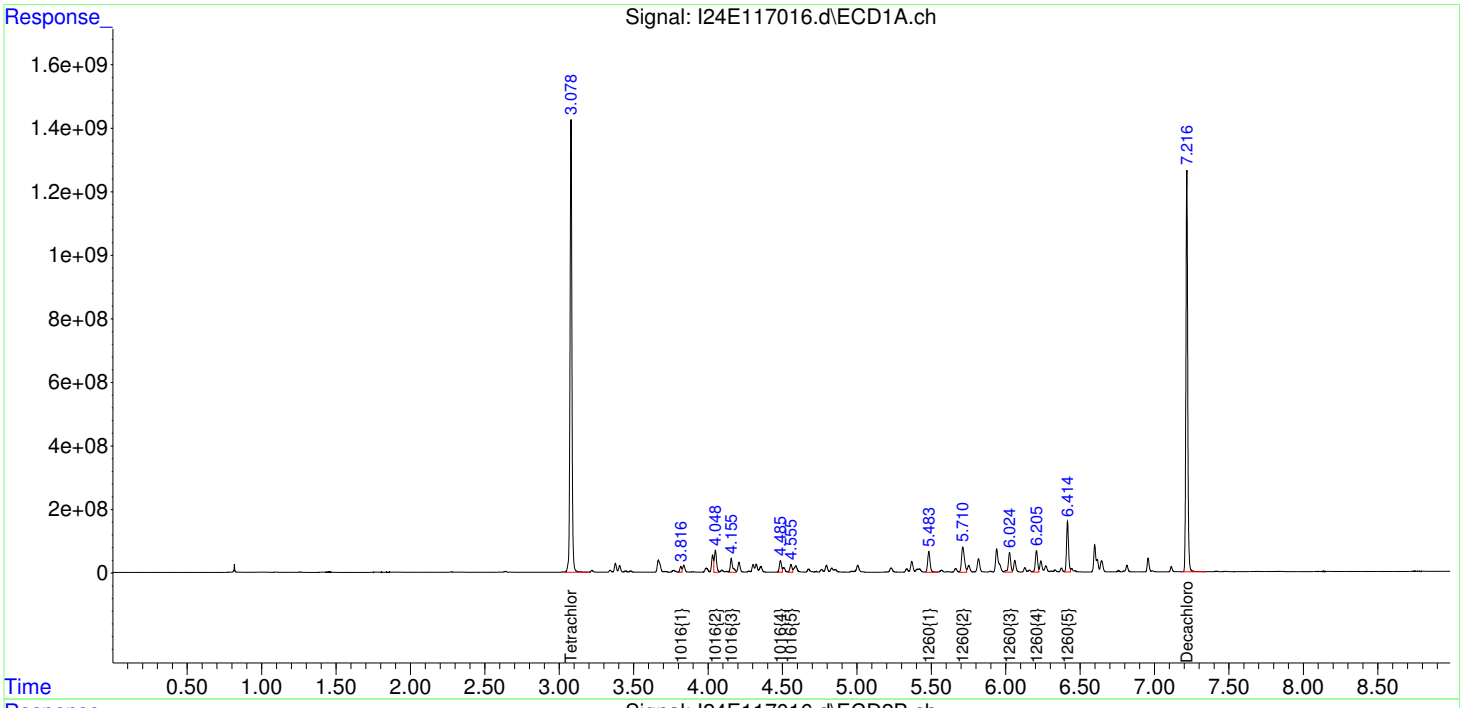
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

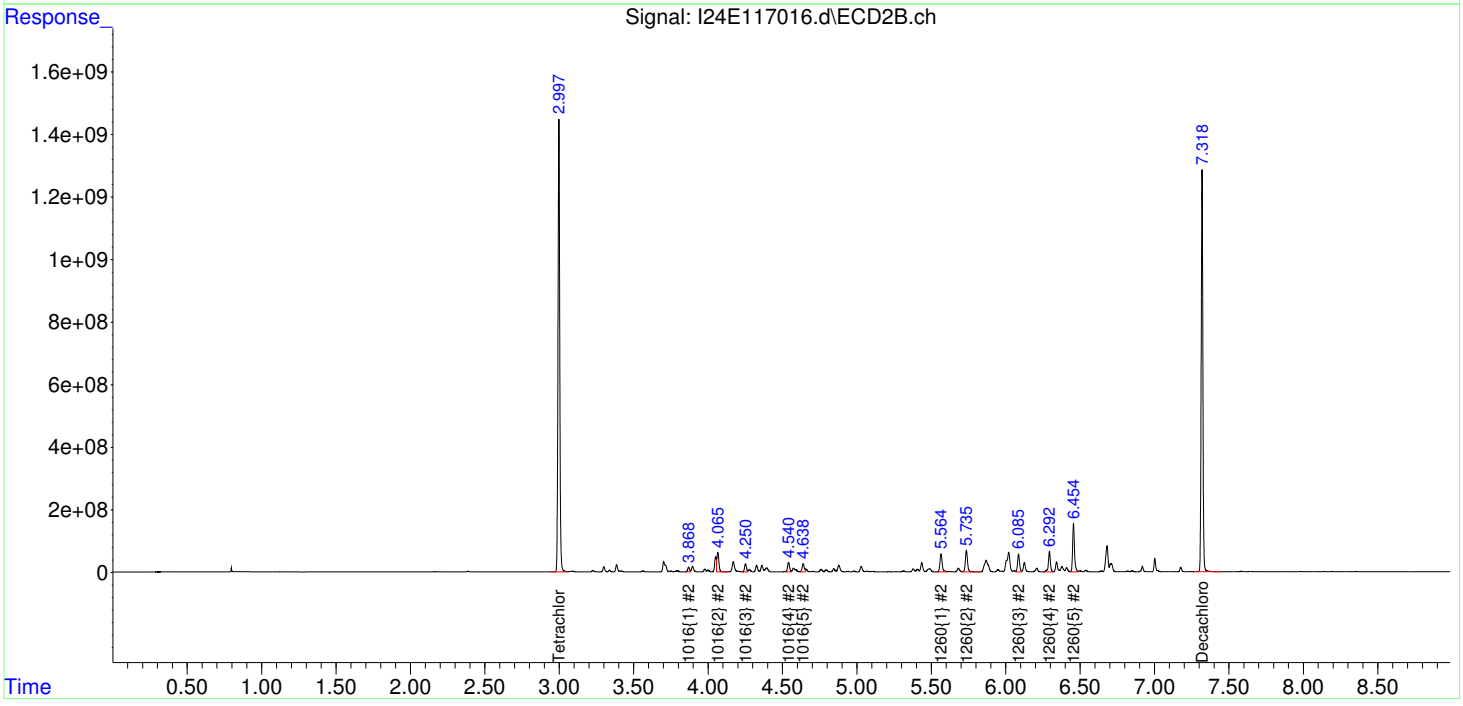
Data Path : C:\msdchem\1\data\042624\
Data File : I24E117016.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 11:55 am
Operator : PJG
Sample : 1260/1016 200 Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 16 Sample Multiplier: 1

3328

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:15:30 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:15:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

3329

Data Path : C:\msdchem\1\data\042624\
Data File : I24E117017.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 12:07 pm
Operator : PJG
Sample : 1260/1016 500 Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:15:30 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:15:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	3.085	3.003	26083.5E6	24082.4E6	383.985	404.943
2) S	Decachlor...	7.217	7.319	23434.6E6	21738.4E6	411.524	427.411
	Target Compounds						
3) L1	1016{1}	3.817	3.869	370.1E6	304.8E6	373.228	387.760
4) L1	1016{2}	4.049	4.065	1622.5E6	1427.5E6	382.063	430.893
5) L1	1016{3}	4.156	4.251	1145.5E6	566.2E6	371.376	422.981
6) L1	1016{4}	4.486	4.540	843.3E6	692.7E6	375.187	396.503
7) L1	1016{5}	4.556	4.639	569.3E6	652.3E6	379.292	397.882
Sum	1016			4550.7E6	3643.5E6	1881.144	2036.019
Average	1016					376.229	407.204
8) L7	1260{1}	5.483	5.565	1641.2E6	1461.2E6	375.255	410.766
9) L7	1260{2}	5.711	5.735	2481.6E6	1721.6E6	383.887	414.905
10) L7	1260{3}	6.026	6.085	1586.1E6	1290.3E6	382.013	414.612
11) L7	1260{4}	6.207	6.293	1638.7E6	1488.9E6	391.990	425.350
12) L7	1260{5}	6.415	6.455	3616.2E6	3343.8E6	415.998	457.120
Sum	1260			10963.8E6	9305.8E6	1949.143	2122.754
Average	1260					389.829	424.551
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\042624\
Data File : I24E117017.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 12:07 pm
Operator : PJG
Sample : 1260/1016 500 Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 17 Sample Multiplier: 1

3330

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:15:30 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:15:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40)	L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D. d	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

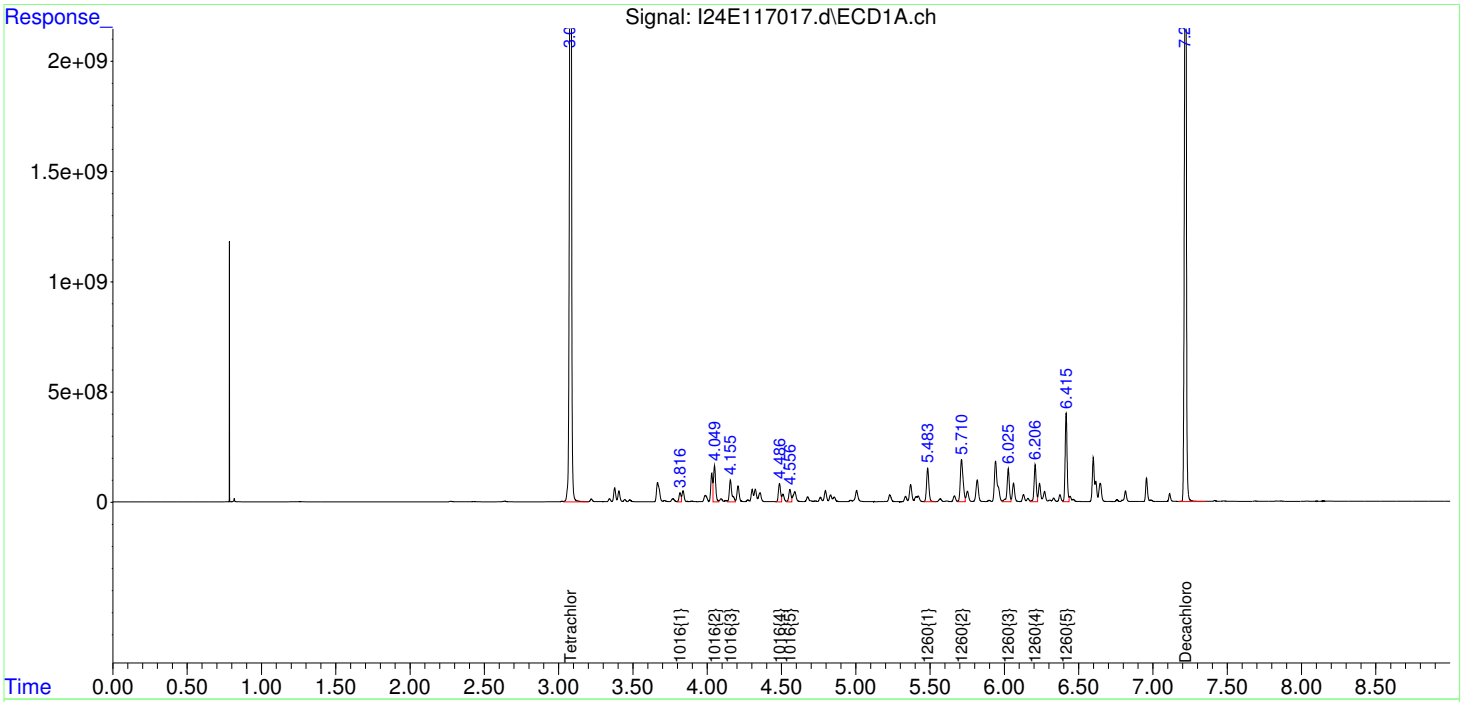
Quantitation Report (Not Reviewed)

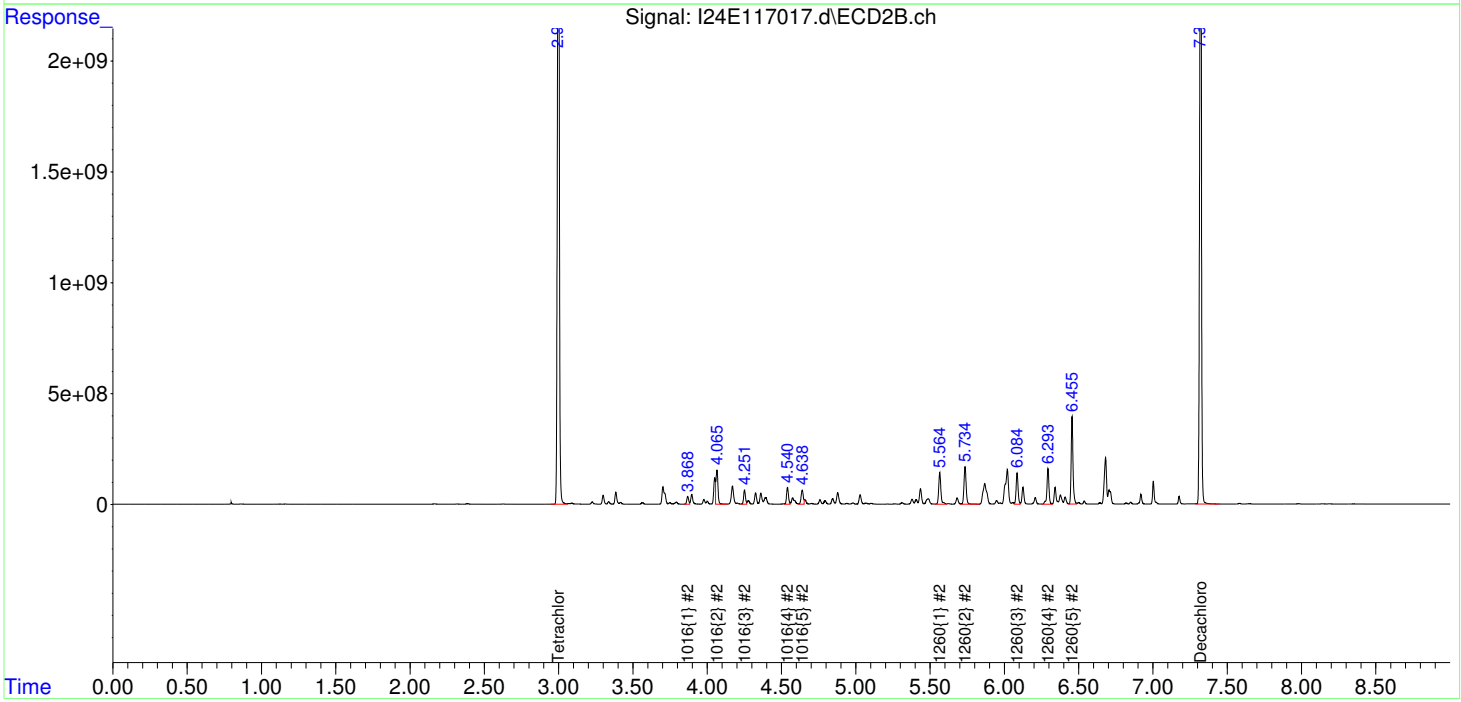
3331

Data Path : C:\msdchem\1\data\042624\
Data File : I24E117017.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 12:07 pm
Operator : PJG
Sample : 1260/1016 500 Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:15:30 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:15:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

3332

Data Path : C:\msdchem\1\data\042624\
Data File : I24E117043.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Apr 2024 9:58 am
Operator : PJG
Sample : 1260/1016 ICV Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 43 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 10:08:07 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	3.078	2.997	6900.2E6	6140.2E6	105.062	106.129
2) S	Decachlor...	7.216	7.317	5461.9E6	4929.8E6	98.401	98.980
	Target Compounds						
3) L1	1016{1}	3.816	3.869	97297889	72229449	102.438	95.445
4) L1	1016{2}	4.049	4.065	414.1E6	325.2E6	101.489	100.485
5) L1	1016{3}	4.156	4.251	297.7E6	127.1E6	100.853	97.437
6) L1	1016{4}	4.486	4.540	218.1E6	162.5E6	101.256	96.339
7) L1	1016{5}	4.556	4.639	140.5E6	152.2E6	97.518	96.090
Sum	1016			1167.7E6	839.2E6	503.554	485.796
Average	1016					100.711	97.159
8) L7	1260{1}	5.483	5.564	423.3E6	313.7E6	100.985	90.889
9) L7	1260{2}	5.711	5.734	633.9E6	383.9E6	102.001	95.232
10) L7	1260{3}	6.025	6.085	386.7E6	278.6E6	96.955	92.154
11) L7	1260{4}	6.206	6.292	398.7E6	323.3E6	98.941	94.718
12) L7	1260{5}	6.415	6.454	835.2E6	677.6E6	98.852	93.970
Sum	1260			2677.8E6	1977.1E6	497.735	466.964
Average	1260					99.547	93.393
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\042624\
Data File : I24E117043.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Apr 2024 9:58 am
Operator : PJG
Sample : 1260/1016 ICV Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 43 Sample Multiplier: 1

3333

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 10:08:07 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32) L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232			0	0	N.D.	N.D.
Average 1232					0.000	0.000
33) L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34) L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35) L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36) L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37) L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268			0	0	N.D.	N.D.
Average 1268					0.000	0.000
38) L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39) L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40) L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221			0	0	N.D.	N.D.
Average 1221					0.000	0.000
41) L8 1262{1}	0.000	0.000	0	0	N.D. d	N.D. d
42) L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43) L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44) L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45) L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262			0	0	N.D.	N.D.
Average 1262					0.000	0.000

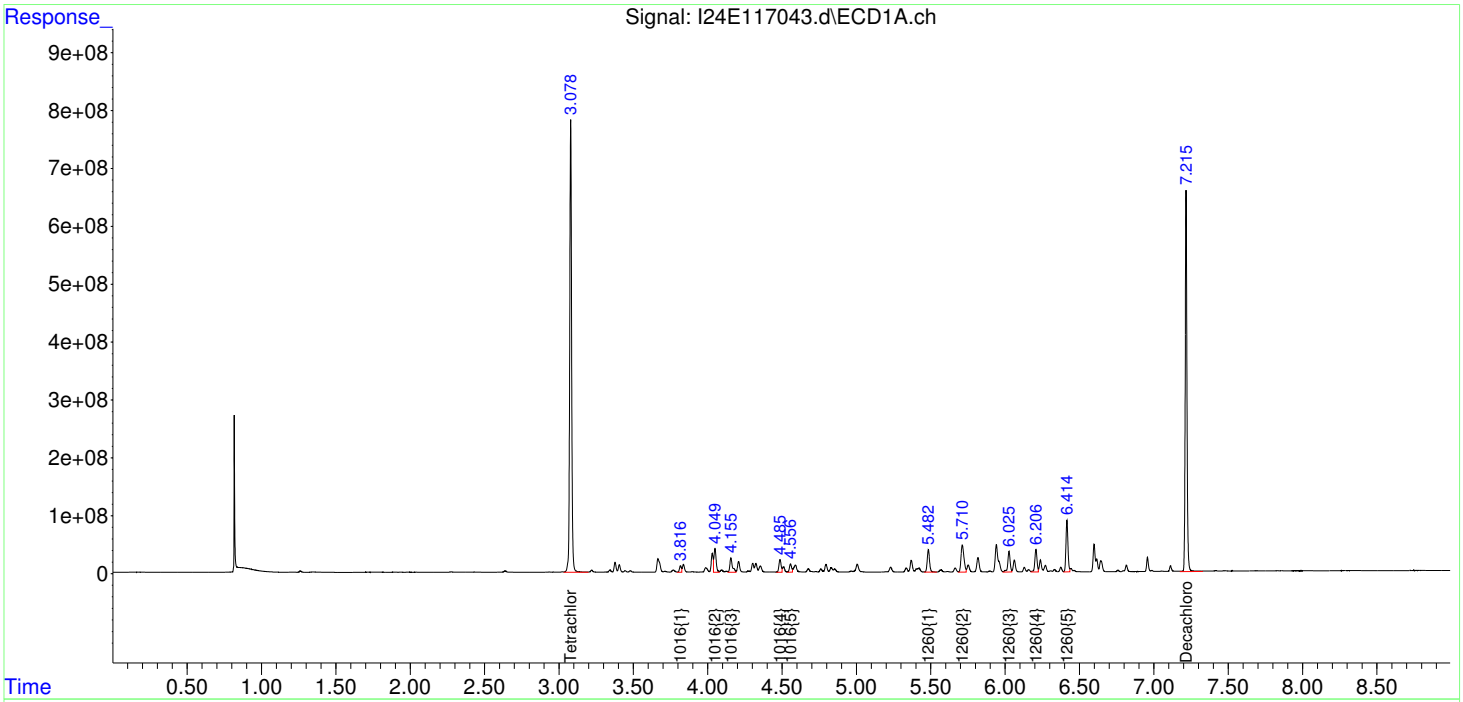
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

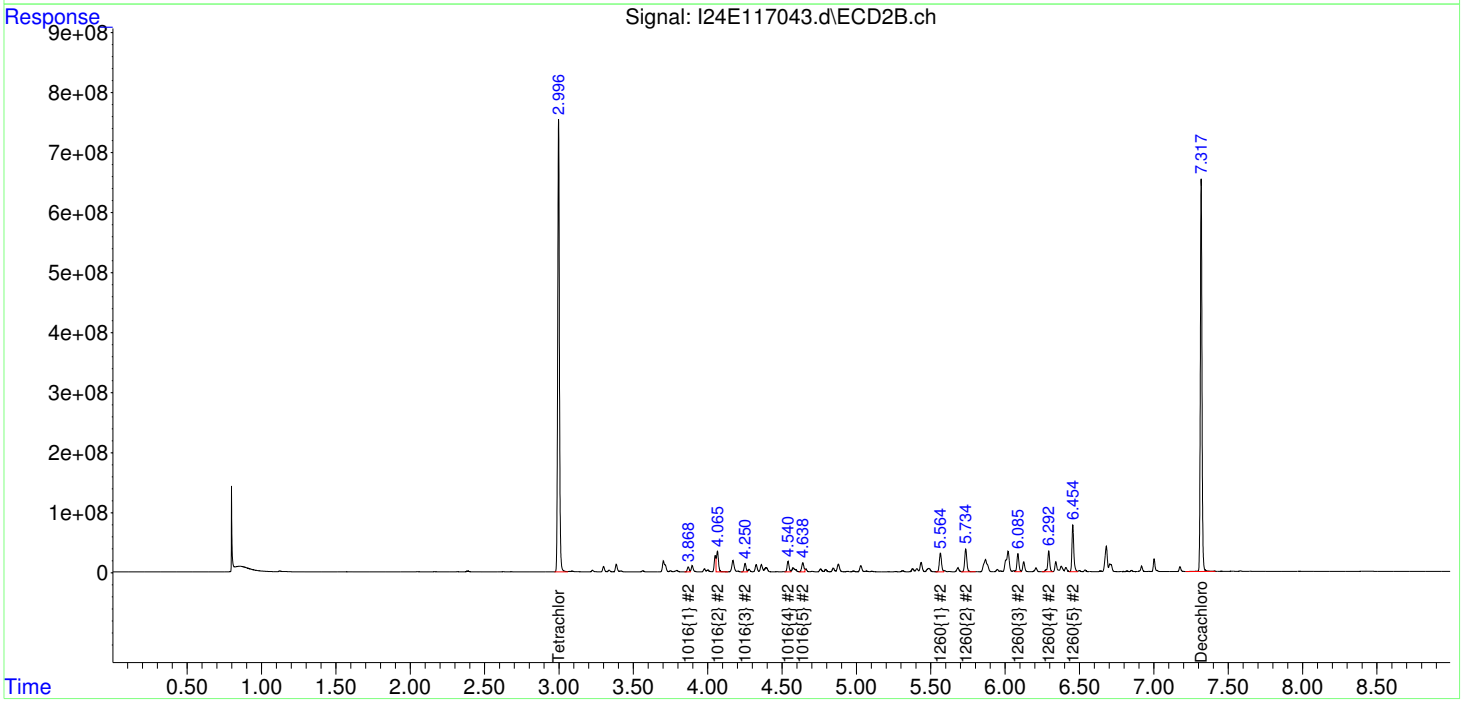
Data Path : C:\msdchem\1\data\042624\
Data File : I24E117043.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Apr 2024 9:58 am
Operator : PJG
Sample : 1260/1016 ICV Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 43 Sample Multiplier: 1

3334

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 10:08:07 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

3335

Data Path : C:\msdchem\1\data\042624\
Data File : I24E117021.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 12:55 pm
Operator : PJG
Sample : 1254 10 Inst : ECD 9
Misc : mix[l6]
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:24:21 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:24:20 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
2) S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
3) L1	1016{1}	0.000	0.000	0	0	N.D.	N.D.
4) L1	1016{2}	0.000	0.000	0	0	N.D.	N.D.
5) L1	1016{3}	0.000	0.000	0	0	N.D.	N.D.
6) L1	1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1	1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9) L7	1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7	1260{3}	0.000	0.000	0	0	N.D. d	N.D. d
11) L7	1260{4}	0.000	0.000	0	0	N.D. d	N.D. d
12) L7	1260{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13) L6	1254{1}	4.795	4.877	34236981	29550259	NoCal	NoCal
14) L6	1254{2}	5.234	5.029	36877708	33789595	NoCal	NoCal
15) L6	1254{3}	5.335	5.311	59379492	26307778	NoCal	NoCal
16) L6	1254{4}	5.566	5.407	45219817	45665318	NoCal	NoCal
17) L6	1254{5}	5.942	6.020	64918647	51222856	NoCal	NoCal
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D.	N.D.
24) L4	1242{2}	0.000	0.000	0	0	N.D.	N.D.
25) L4	1242{3}	0.000	0.000	0	0	N.D.	N.D.
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D.	N.D.
29) L3	1232{2}	0.000	0.000	0	0	N.D.	N.D.
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\042624\
Data File : I24E117021.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 12:55 pm
Operator : PJG
Sample : 1254 10 Inst : ECD 9
Misc : mix[l6]
ALS Vial : 21 Sample Multiplier: 1

3336

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:24:21 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:24:20 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D.	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D.	N.D.
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	0.000	0.000	0	0	N.D.	N.D.
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D.
40)	L2 1221{3}	0.000	0.000	0	0	N.D.	N.D. d
	Sum 1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D. d	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

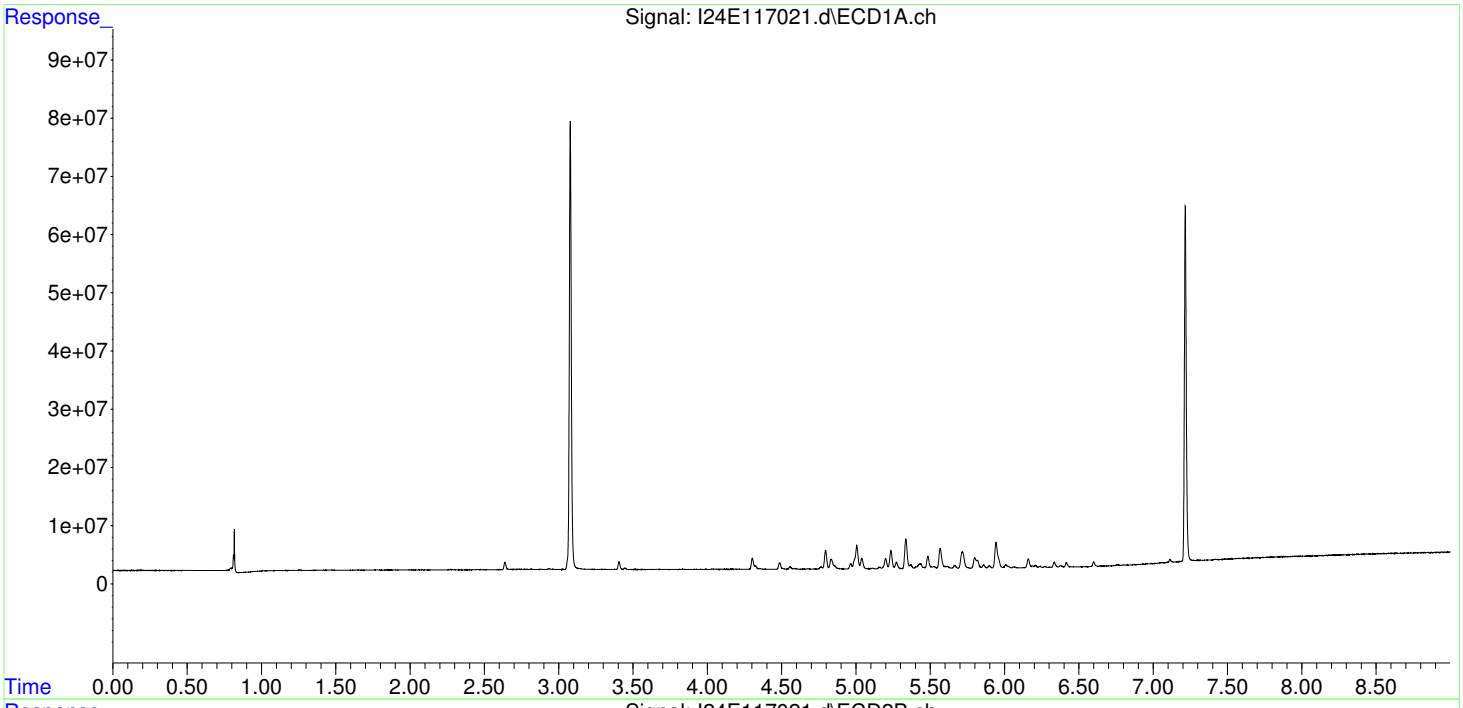
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

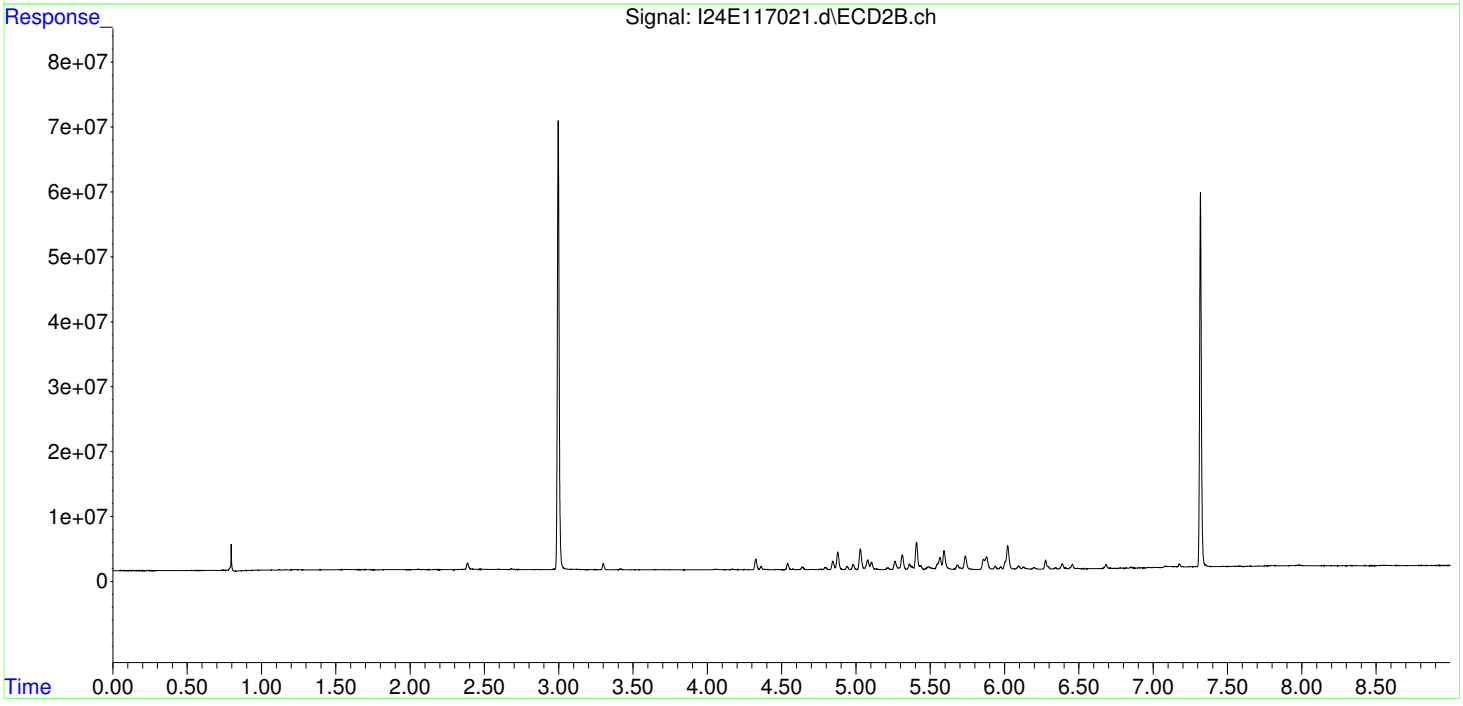
Data Path : C:\msdchem\1\data\042624\
Data File : I24E117021.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 12:55 pm
Operator : PJG
Sample : 1254 10 Inst : ECD 9
Misc : mix[l6]
ALS Vial : 21 Sample Multiplier: 1

3337

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:24:21 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:24:20 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

3338

Data Path : C:\msdchem\1\data\042624\
Data File : I24E117022.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 1:07 pm
Operator : PJG
Sample : 1254 20 Inst : ECD 9
Misc : mix[l6]
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:24:22 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:24:21 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
2) S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
3) L1	1016{1}	0.000	0.000	0	0	N.D.	N.D.
4) L1	1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1	1016{3}	0.000	0.000	0	0	N.D.	N.D.
6) L1	1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1	1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9) L7	1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7	1260{3}	0.000	0.000	0	0	N.D. d	N.D. d
11) L7	1260{4}	0.000	0.000	0	0	N.D. d	N.D. d
12) L7	1260{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13) L6	1254{1}	4.794	4.877	75638624	64950701	22.093	21.980
14) L6	1254{2}	5.233	5.029	81095966	73325316	21.991	21.701
15) L6	1254{3}	5.333	5.311	132.2E6	58886563	22.261	22.384
16) L6	1254{4}	5.564	5.406	102.4E6	102.8E6	22.640	22.522
17) L6	1254{5}	5.940	6.020	139.3E6	115.1E6	21.459	22.479
Sum	1254			530.6E6	415.2E6	110.443	111.065
Average	1254					22.089	22.213
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D.	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D.	N.D.
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D.	N.D.
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D.	N.D.
29) L3	1232{2}	0.000	0.000	0	0	N.D.	N.D.
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\042624\
Data File : I24E117022.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 1:07 pm
Operator : PJG
Sample : 1254 20 Inst : ECD 9
Misc : mix[l6]
ALS Vial : 22 Sample Multiplier: 1

3339

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:24:22 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:24:21 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	0.000	0.000	0	0	N.D.	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D.
40)	L2 1221{3}	0.000	0.000	0	0	N.D.	N.D. d
	Sum 1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D. d	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

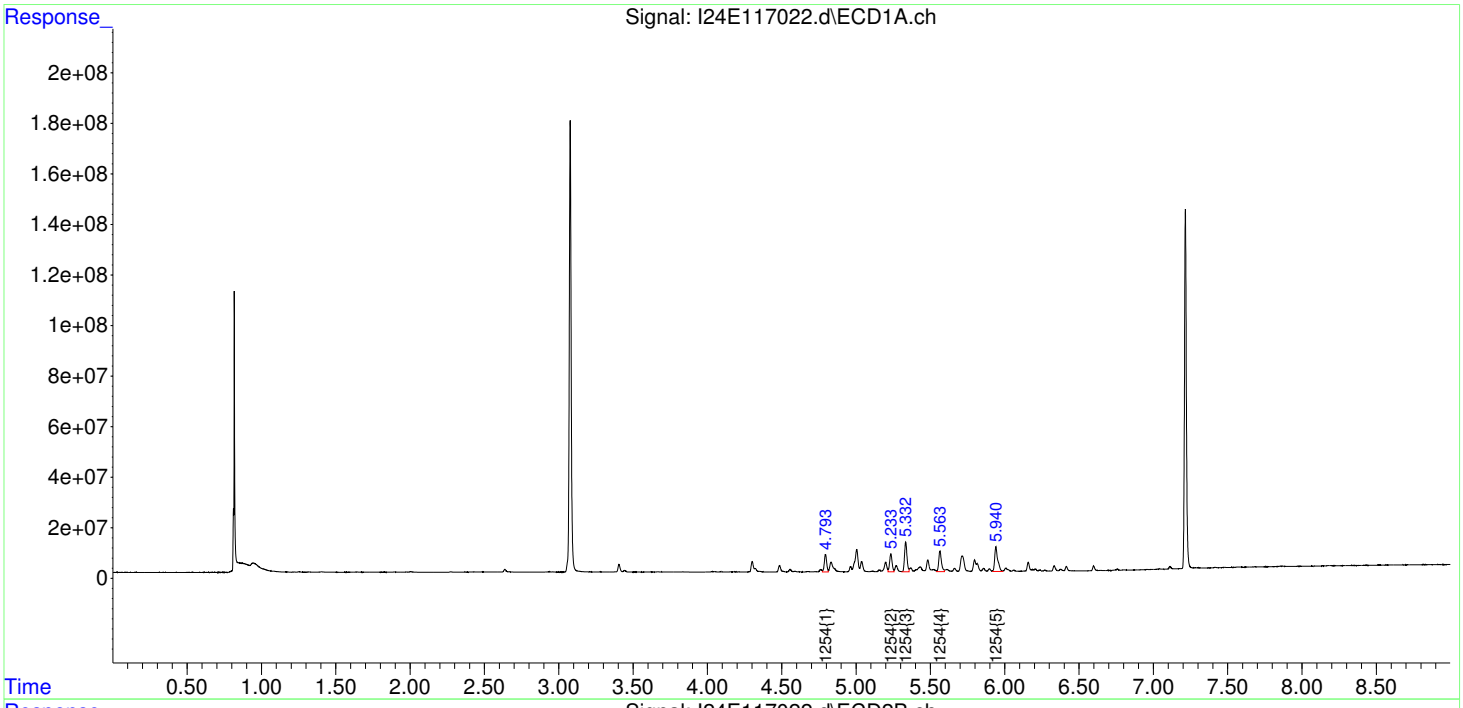
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

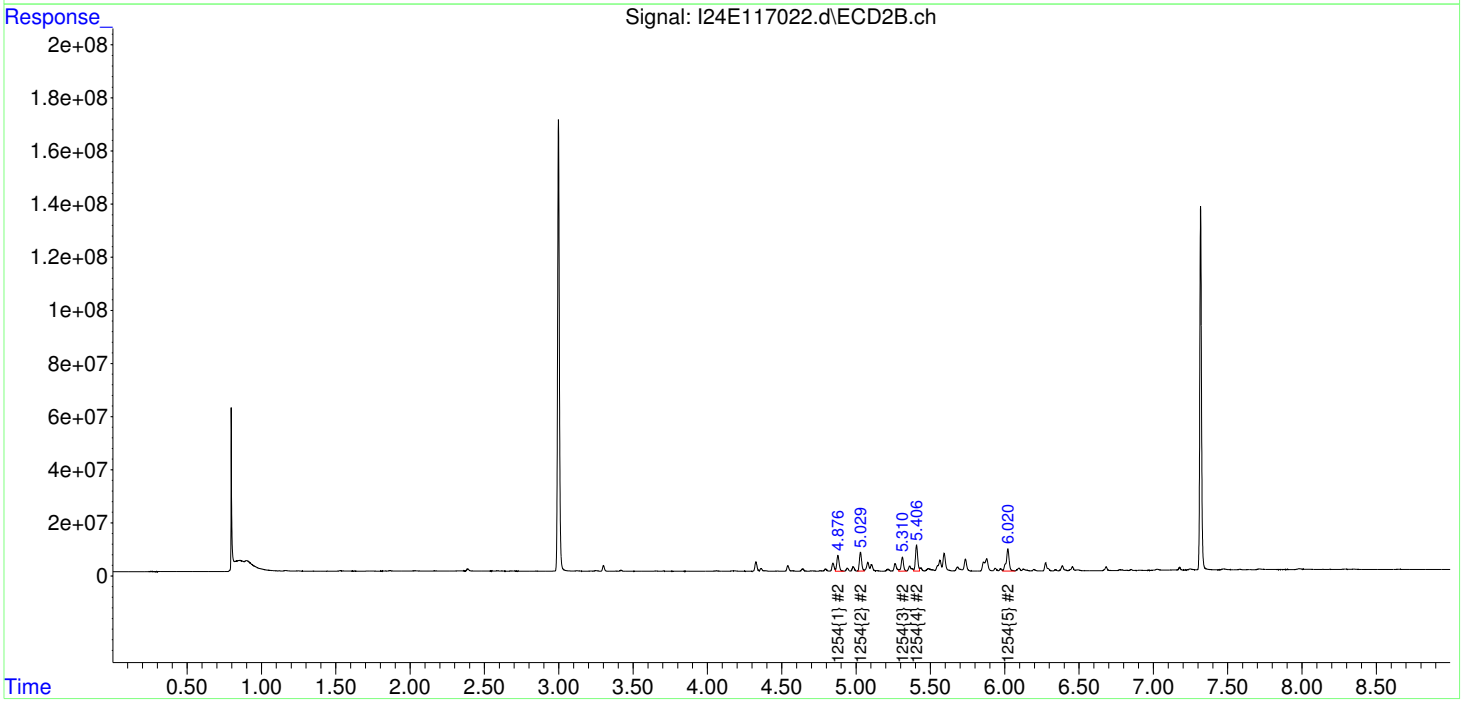
Data Path : C:\msdchem\1\data\042624\
Data File : I24E117022.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 1:07 pm
Operator : PJG
Sample : 1254 20 Inst : ECD 9
Misc : mix[l6]
ALS Vial : 22 Sample Multiplier: 1

3340

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:24:22 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:24:21 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

3341

Data Path : C:\msdchem\1\data\042624\
Data File : I24E117023.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 1:18 pm
Operator : PJG
Sample : 1254 50 Inst : ECD 9
Misc : mix[l6]
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:24:22 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:24:22 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
2) S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
3) L1	1016{1}	0.000	0.000	0	0	N.D.	N.D.
4) L1	1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1	1016{3}	0.000	0.000	0	0	N.D. d	N.D.
6) L1	1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1	1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9) L7	1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7	1260{3}	0.000	0.000	0	0	N.D. d	N.D. d
11) L7	1260{4}	0.000	0.000	0	0	N.D. d	N.D. d
12) L7	1260{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13) L6	1254{1}	4.794	4.878	158.2E6	138.1E6	43.905	44.534
14) L6	1254{2}	5.234	5.030	171.8E6	157.7E6	44.388	44.766
15) L6	1254{3}	5.333	5.311	280.8E6	126.2E6	44.759	45.270
16) L6	1254{4}	5.564	5.407	218.3E6	222.7E6	45.292	45.870
17) L6	1254{5}	5.940	6.021	278.3E6	244.6E6	41.357	44.957
Sum	1254			1107.4E6	889.2E6	219.700	225.396
Average	1254					43.940	45.079
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D.	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D.	N.D.
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D.	N.D.
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D.	N.D.
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D.
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\042624\
Data File : I24E117023.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 1:18 pm
Operator : PJG
Sample : 1254 50 Inst : ECD 9
Misc : mix[l6]
ALS Vial : 23 Sample Multiplier: 1

3342

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:24:22 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:24:22 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D.
40)	L2 1221{3}	0.000	0.000	0	0	N.D.	N.D. d
	Sum 1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D. d	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

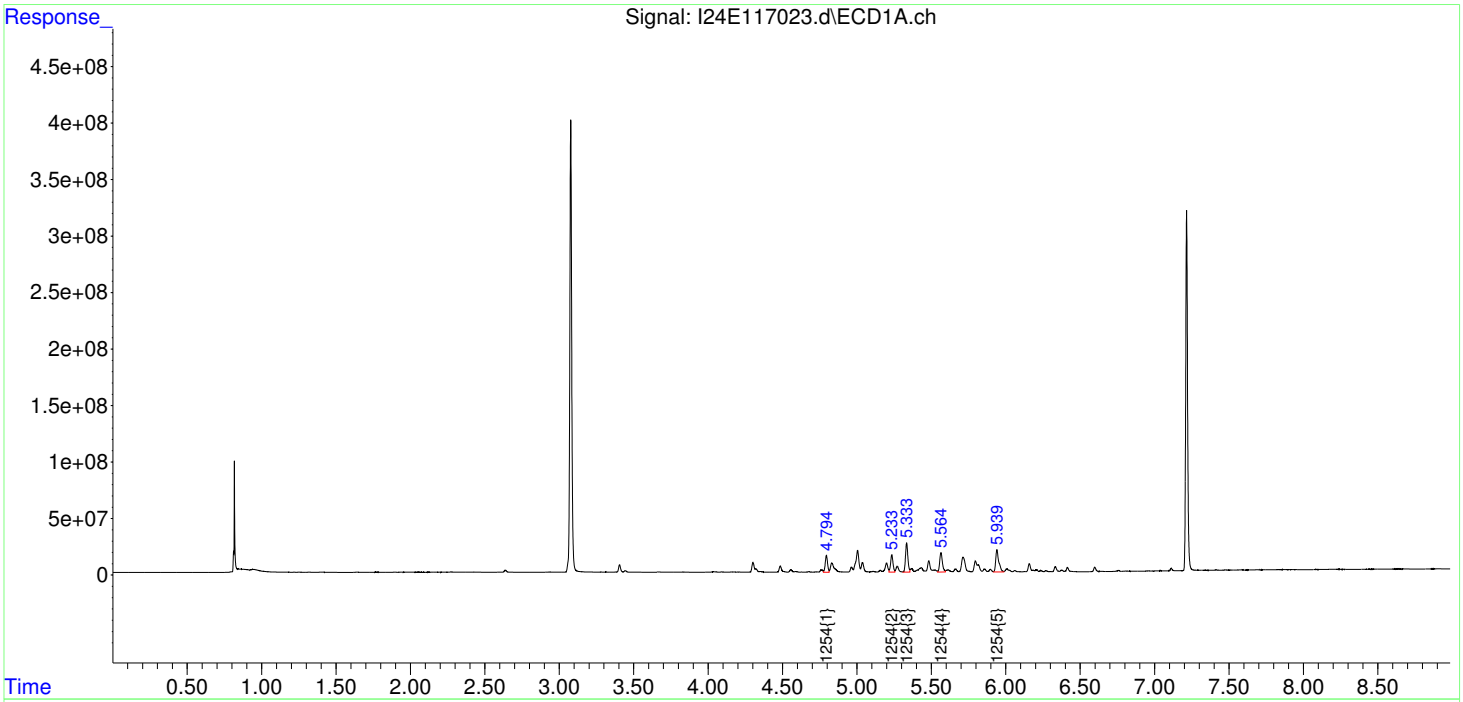
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

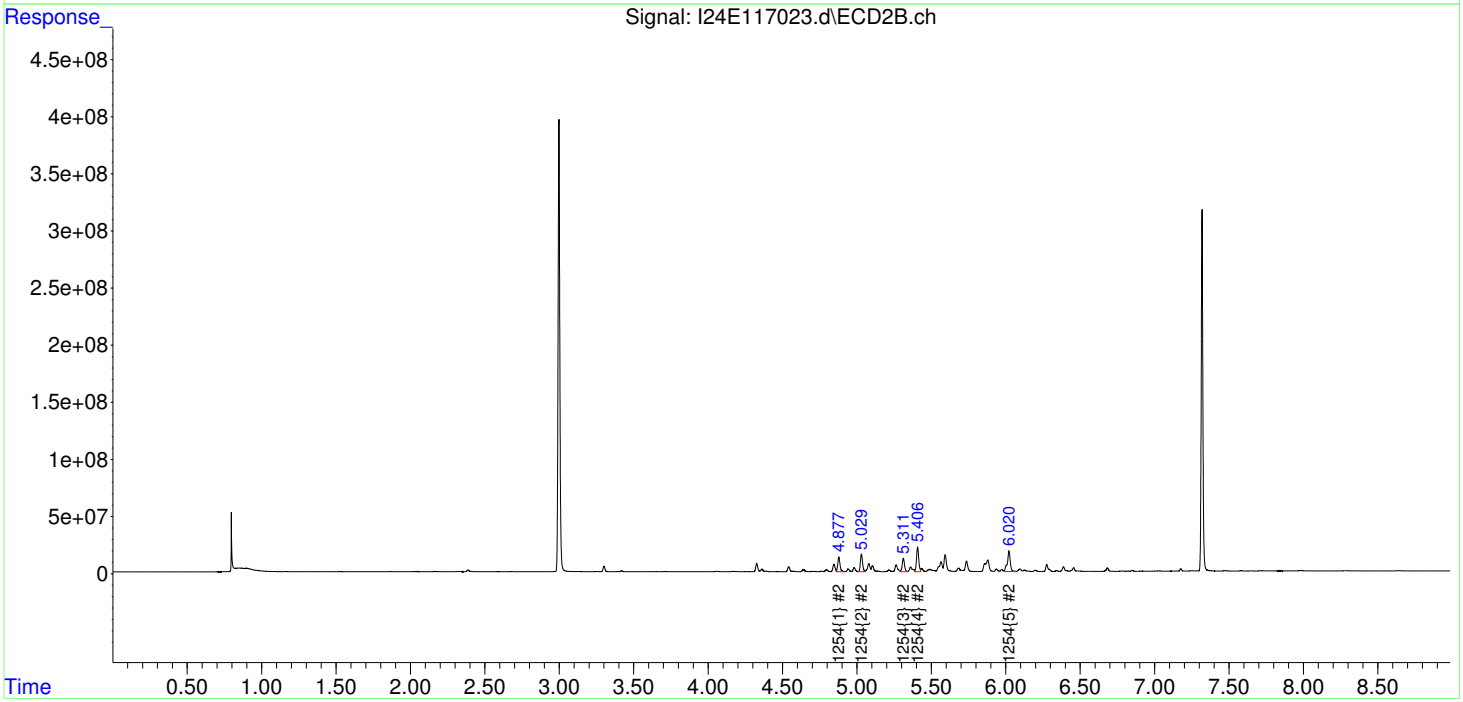
Data Path : C:\msdchem\1\data\042624\
Data File : I24E117023.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 1:18 pm
Operator : PJG
Sample : 1254 50 Inst : ECD 9
Misc : mix[l6]
ALS Vial : 23 Sample Multiplier: 1

3343

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:24:22 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:24:22 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

3344

Data Path : C:\msdchem\1\data\042624\
Data File : I24E117024.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 1:31 pm
Operator : PJG
Sample : 1254 100 Inst : ECD 9
Misc : mix[l6]
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:24:23 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:24:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
2) S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
3) L1	1016{1}	0.000	0.000	0	0	N.D. d	N.D. d
4) L1	1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1	1016{3}	0.000	0.000	0	0	N.D. d	N.D. d
6) L1	1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1	1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9) L7	1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7	1260{3}	0.000	0.000	0	0	N.D. d	N.D. d
11) L7	1260{4}	0.000	0.000	0	0	N.D. d	N.D. d
12) L7	1260{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13) L6	1254{1}	4.795	4.877	268.6E6	235.0E6	77.702	78.649
14) L6	1254{2}	5.234	5.030	298.6E6	273.1E6	80.125	80.325
15) L6	1254{3}	5.334	5.311	488.4E6	222.2E6	80.669	82.307
16) L6	1254{4}	5.564	5.406	379.9E6	396.4E6	81.355	83.971
17) L6	1254{5}	5.940	6.021	486.6E6	437.5E6	76.736	83.234
Sum	1254			1922.0E6	1564.3E6	396.587	408.486
Average	1254					79.317	81.697
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D.	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\042624\
Data File : I24E117024.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 1:31 pm
Operator : PJG
Sample : 1254 100 Inst : ECD 9
Misc : mix[l6]
ALS Vial : 24 Sample Multiplier: 1

3345

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:24:23 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:24:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D.
40)	L2 1221{3}	0.000	0.000	0	0	N.D.	N.D. d
	Sum 1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D. d	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

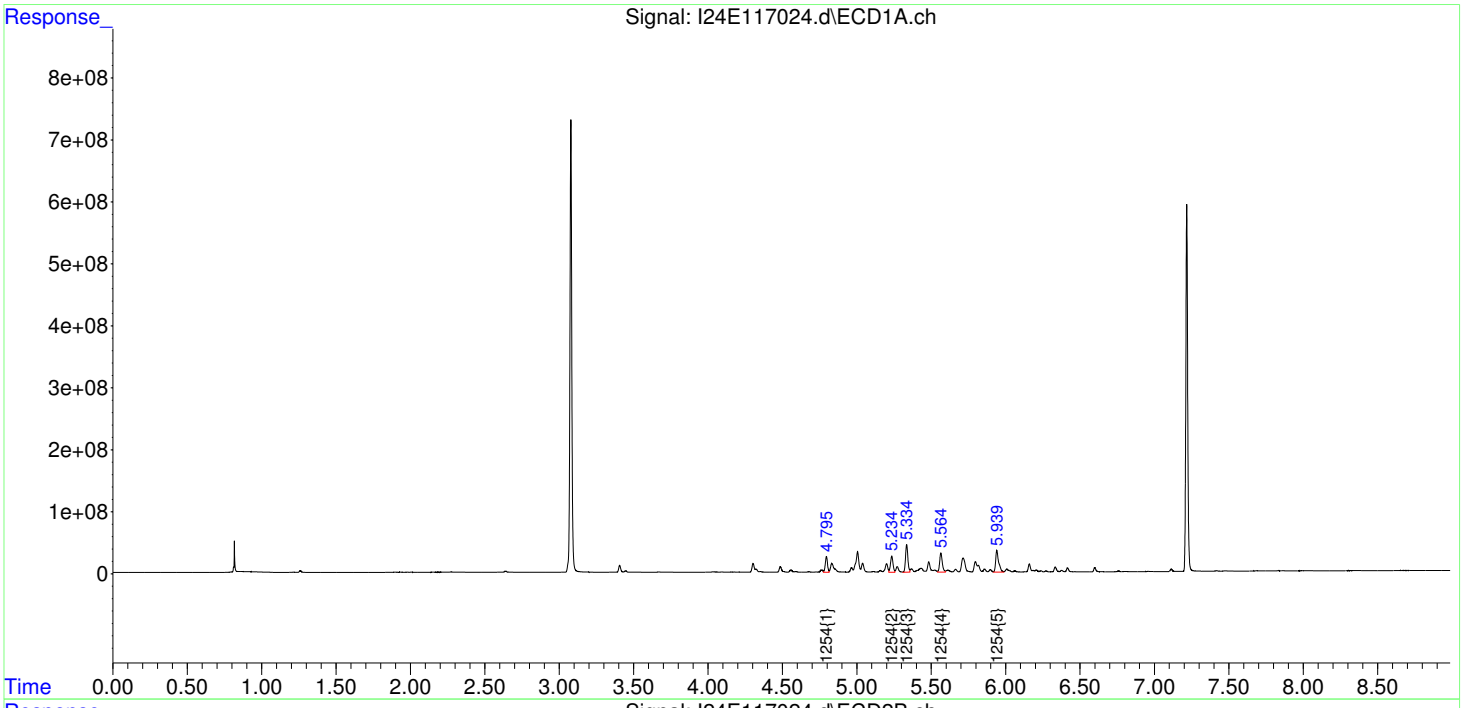
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

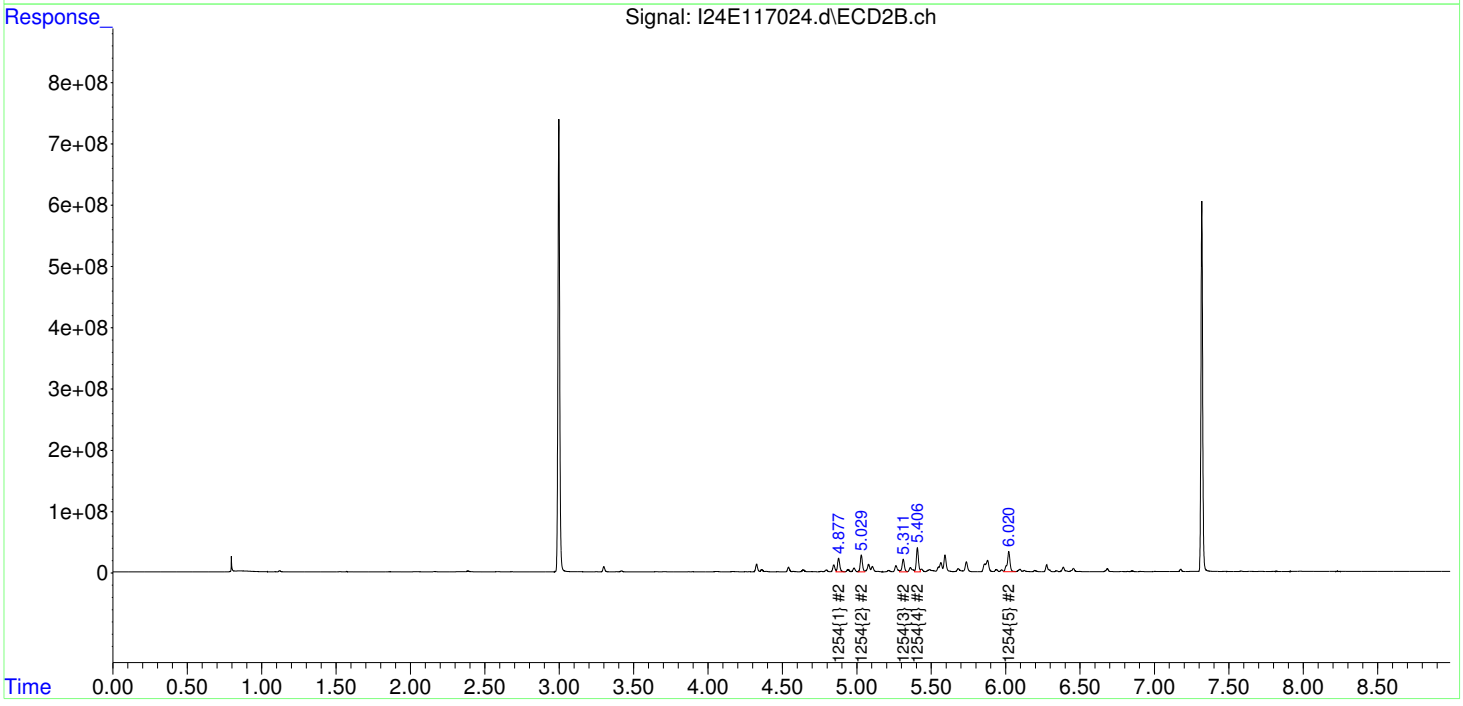
Data Path : C:\msdchem\1\data\042624\
Data File : I24E117024.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 1:31 pm
Operator : PJG
Sample : 1254 100 Inst : ECD 9
Misc : mix[l6]
ALS Vial : 24 Sample Multiplier: 1

3346

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:24:23 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:24:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

3347

Data Path : C:\msdchem\1\data\042624\
Data File : I24E117025.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 1:42 pm
Operator : PJG
Sample : 1254 200 Inst : ECD 9
Misc : mix[l6]
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:24:24 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:24:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
2) S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
3) L1	1016{1}	0.000	0.000	0	0	N.D. d	N.D. d
4) L1	1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1	1016{3}	0.000	0.000	0	0	N.D. d	N.D. d
6) L1	1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1	1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9) L7	1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7	1260{3}	0.000	0.000	0	0	N.D. d	N.D. d
11) L7	1260{4}	0.000	0.000	0	0	N.D. d	N.D. d
12) L7	1260{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13) L6	1254{1}	4.794	4.877	538.1E6	481.6E6	164.883	170.234
14) L6	1254{2}	5.233	5.030	599.4E6	563.6E6	169.262	174.370
15) L6	1254{3}	5.333	5.311	992.1E6	464.0E6	172.178	179.818
16) L6	1254{4}	5.563	5.406	771.7E6	832.9E6	173.368	183.807
17) L6	1254{5}	5.939	6.021	991.4E6	912.4E6	166.002	181.160
Sum	1254			3892.7E6	3254.5E6	845.693	889.389
Average	1254					169.139	177.878
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D.	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D.	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\042624\
Data File : I24E117025.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 1:42 pm
Operator : PJG
Sample : 1254 200 Inst : ECD 9
Misc : mix[l6]
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:24:24 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:24:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D.
40)	L2 1221{3}	0.000	0.000	0	0	N.D.	N.D. d
	Sum 1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D. d	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

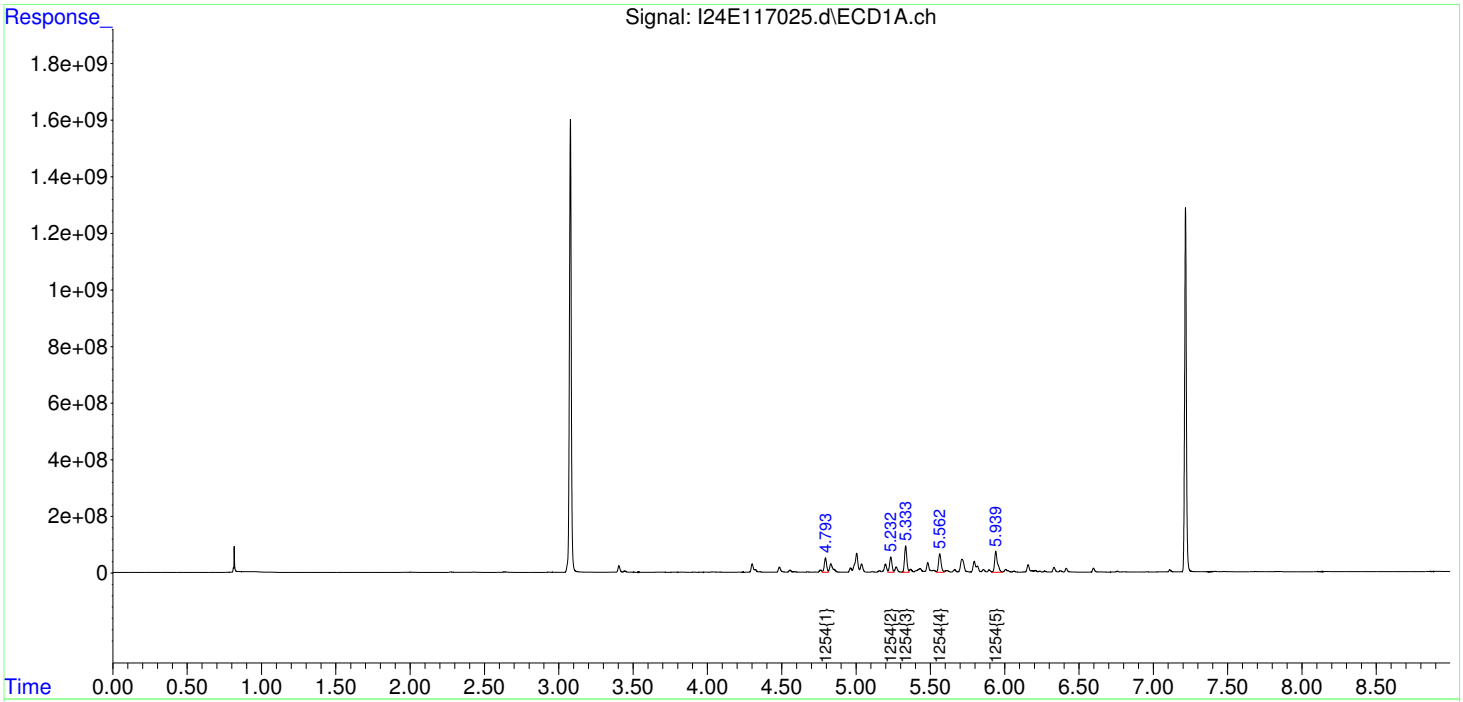
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

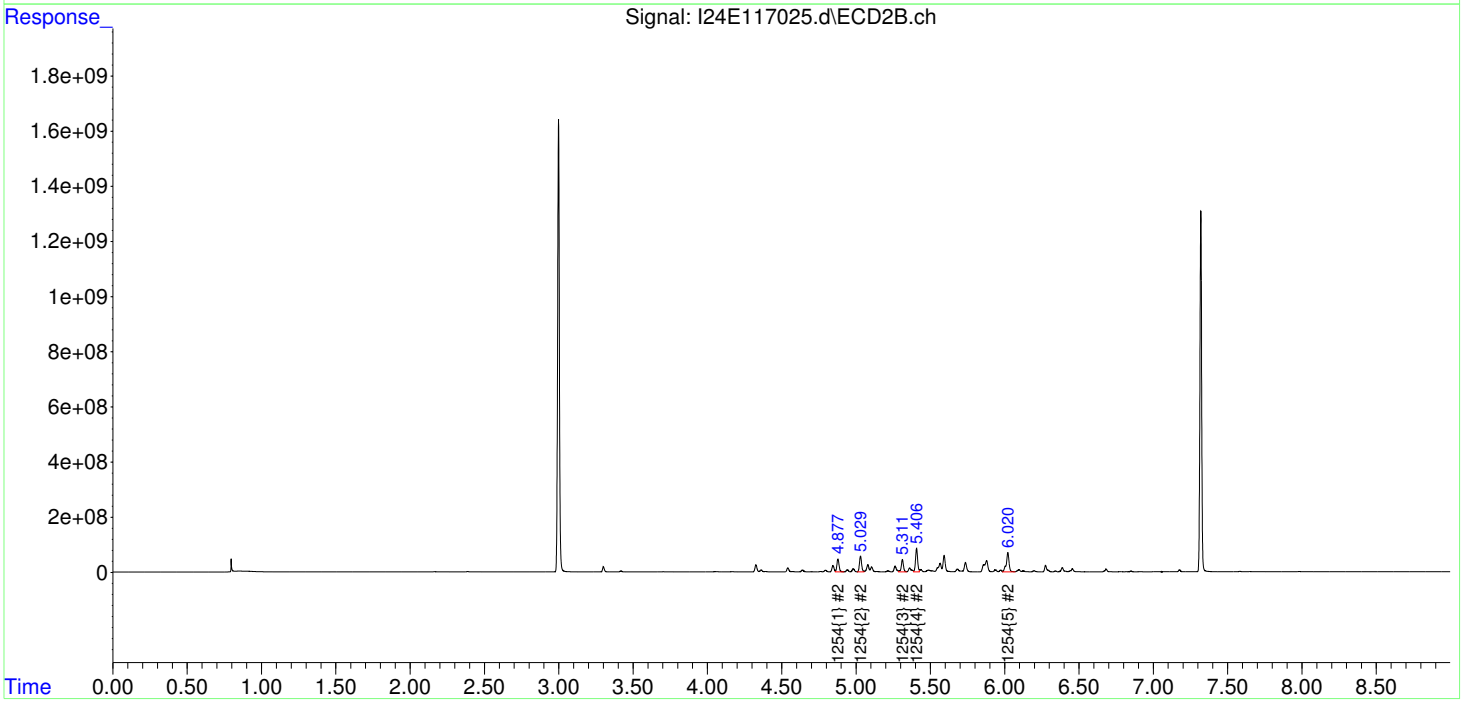
Data Path : C:\msdchem\1\data\042624\
Data File : I24E117025.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 1:42 pm
Operator : PJG
Sample : 1254 200 Inst : ECD 9
Misc : mix[l6]
ALS Vial : 25 Sample Multiplier: 1

3349

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:24:24 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:24:23 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

3350

Data Path : C:\msdchem\1\data\042624\
Data File : I24E117026.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 1:54 pm
Operator : PJG
Sample : 1254 500 Inst : ECD 9
Misc : mix[l6]
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:24:25 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:24:24 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
2) S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
3) L1	1016{1}	0.000	0.000	0	0	N.D. d	N.D. d
4) L1	1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1	1016{3}	0.000	0.000	0	0	N.D. d	N.D. d
6) L1	1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1	1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9) L7	1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7	1260{3}	0.000	0.000	0	0	N.D. d	N.D. d
11) L7	1260{4}	0.000	0.000	0	0	N.D. d	N.D. d
12) L7	1260{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13) L6	1254{1}	4.794	4.878	1112.9E6	1049.2E6	353.414	382.299
14) L6	1254{2}	5.233	5.029	1254.6E6	1233.2E6	365.527	391.550
15) L6	1254{3}	5.333	5.311	2089.1E6	1016.8E6	372.958	402.188
16) L6	1254{4}	5.562	5.406	1625.2E6	1840.9E6	375.076	412.922
17) L6	1254{5}	5.939	6.020	2178.6E6	2011.5E6	377.630	407.051
Sum	1254			8260.5E6	7151.6E6	1844.604	1996.010
Average	1254					368.921	399.202
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D.	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D.	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\042624\
Data File : I24E117026.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 1:54 pm
Operator : PJG
Sample : 1254 500 Inst : ECD 9
Misc : mix[l6]
ALS Vial : 26 Sample Multiplier: 1

3351

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:24:25 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:24:24 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D.
40)	L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D. d	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

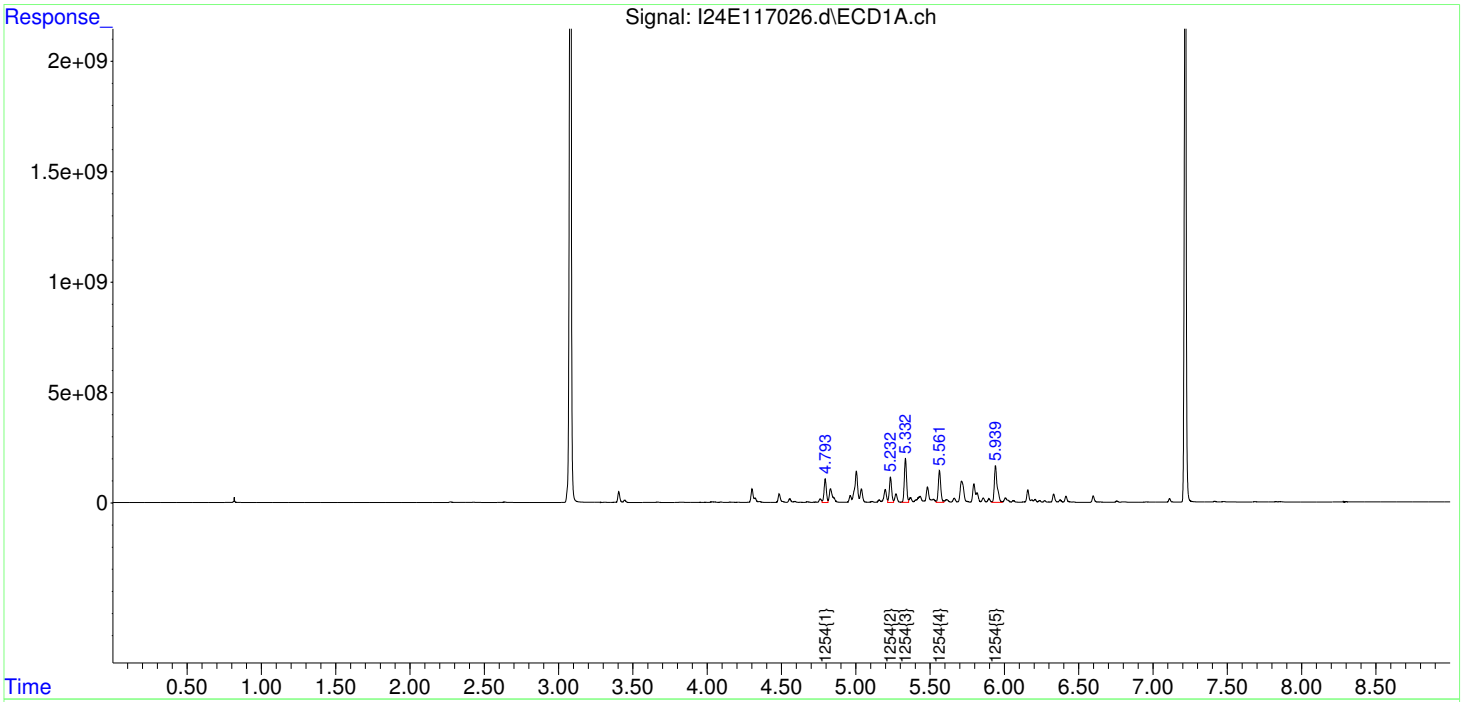
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

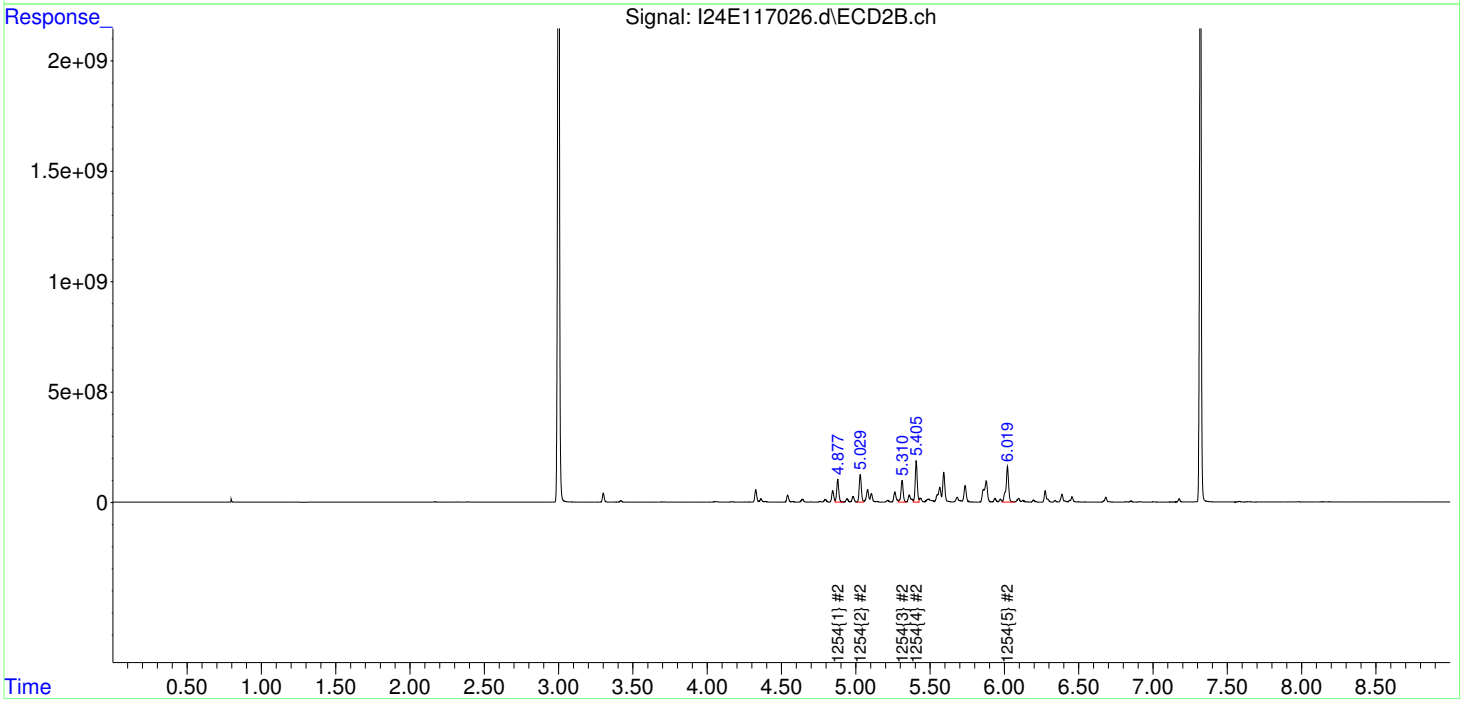
Data Path : C:\msdchem\1\data\042624\
Data File : I24E117026.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 1:54 pm
Operator : PJG
Sample : 1254 500 Inst : ECD 9
Misc : mix[l6]
ALS Vial : 26 Sample Multiplier: 1

3352

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:24:25 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:24:24 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

3353

Data Path : C:\msdchem\1\data\042624\
Data File : I24E117028.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 2:18 pm
Operator : PJG
Sample : 1254 ICV Inst : ECD 9
Misc : mix[l6]
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:24:45 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:24:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
2) S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
3) L1	1016{1}	0.000	0.000	0	0	N.D. d	N.D. d
4) L1	1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1	1016{3}	0.000	0.000	0	0	N.D. d	N.D. d
6) L1	1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1	1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9) L7	1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7	1260{3}	0.000	0.000	0	0	N.D. d	N.D. d
11) L7	1260{4}	0.000	0.000	0	0	N.D. d	N.D. d
12) L7	1260{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13) L6	1254{1}	4.793	4.878	273.8E6	243.9E6	91.398	92.498
14) L6	1254{2}	5.233	5.029	303.0E6	277.7E6	92.406	91.465
15) L6	1254{3}	5.333	5.312	510.2E6	225.6E6	95.110	92.228
16) L6	1254{4}	5.563	5.407	392.5E6	411.8E6	94.523	95.133
17) L6	1254{5}	5.940	6.020	519.5E6	430.6E6	93.879	89.924
Sum	1254			1998.9E6	1589.5E6	467.316	461.248
Average	1254					93.463	92.250
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D.	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D.	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\042624\
Data File : I24E117028.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 2:18 pm
Operator : PJG
Sample : 1254 ICV Inst : ECD 9
Misc : mix[l6]
ALS Vial : 28 Sample Multiplier: 1

3354

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:24:45 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:24:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	0.000	0.000	0	0	N.D.	N.D.
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D.
40)	L2 1221{3}	0.000	0.000	0	0	N.D.	N.D. d
	Sum 1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D. d	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

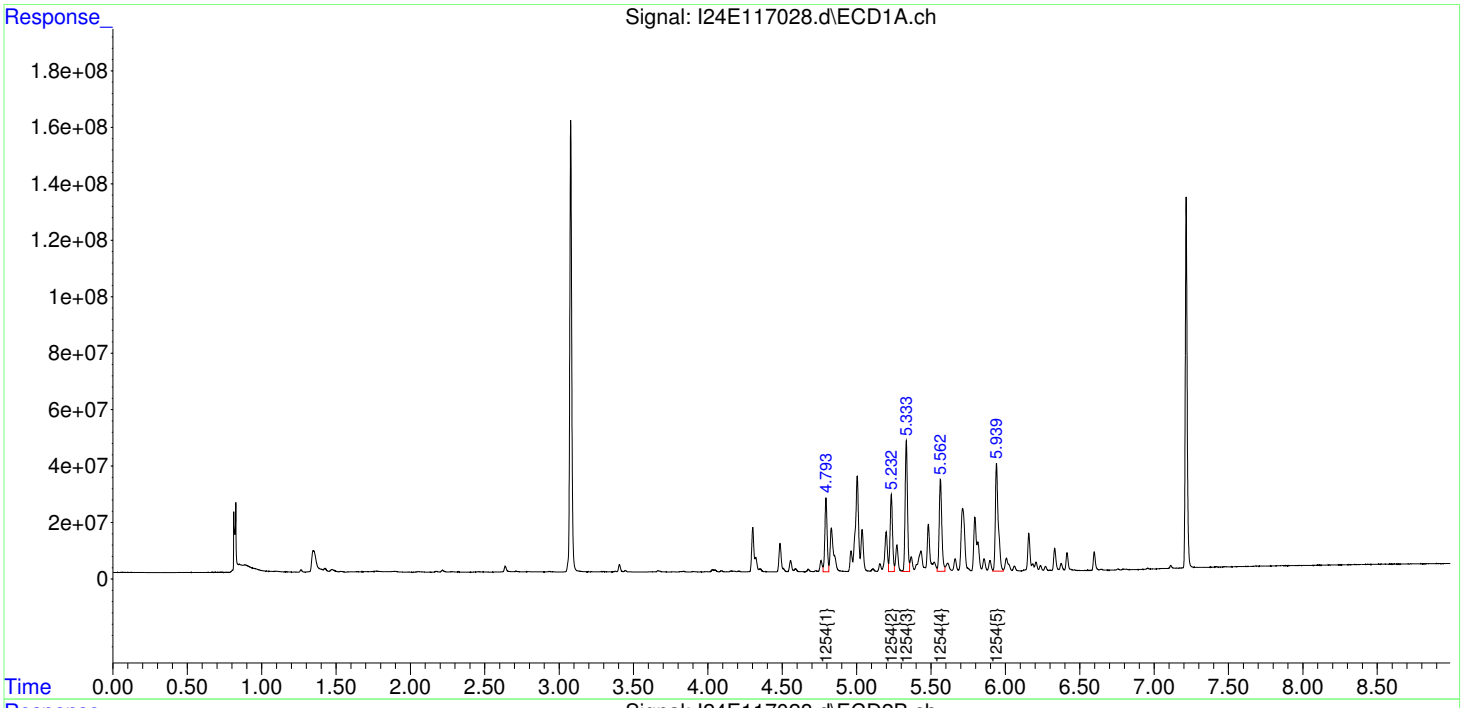
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

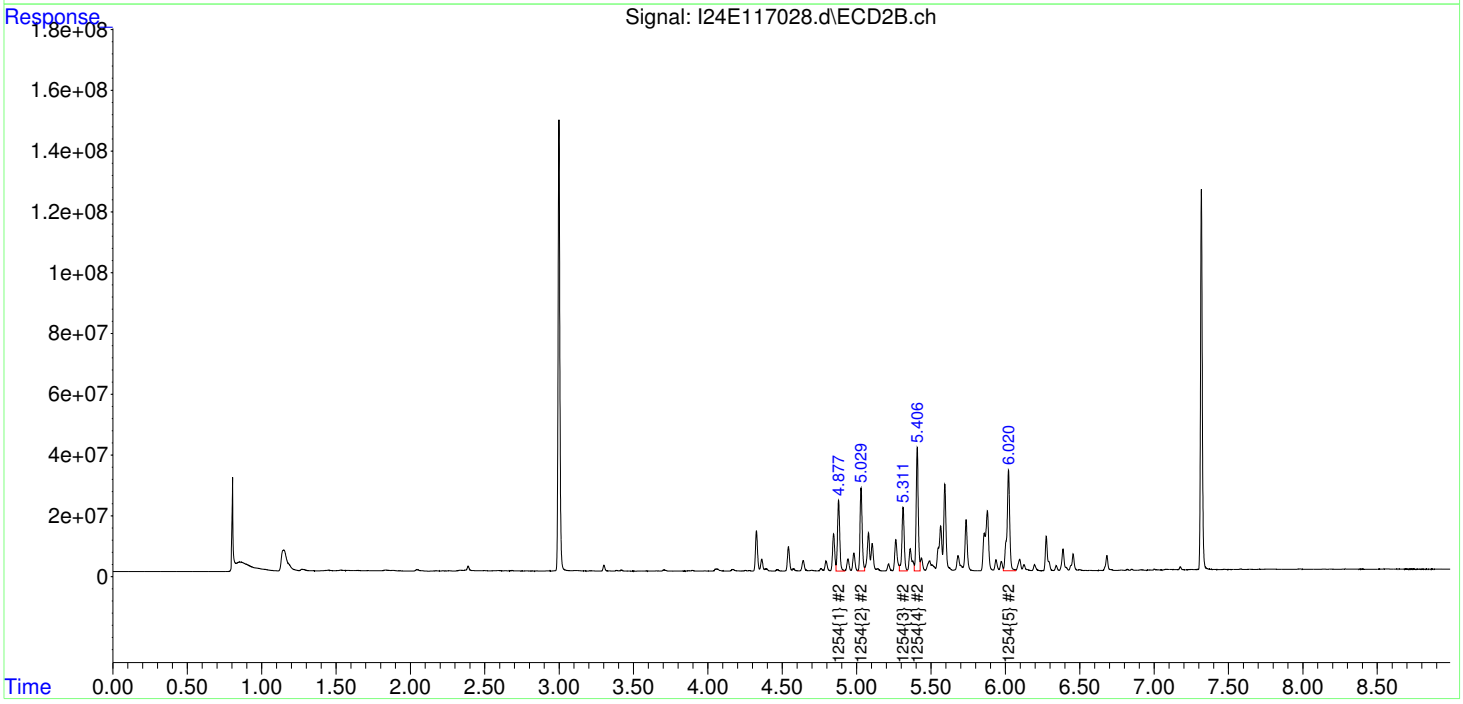
Data Path : C:\msdchem\1\data\042624\
Data File : I24E117028.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 2:18 pm
Operator : PJG
Sample : 1254 ICV Inst : ECD 9
Misc : mix[l6]
ALS Vial : 28 Sample Multiplier: 1

3355

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:24:45 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:24:25 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

3356

Data Path : C:\msdchem\1\data\042624\
Data File : I24E117030.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 2:41 pm
Operator : PJG
Sample : 1248 10 Inst : ECD 9
Misc : mix[l5]
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:26:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:00 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
2) S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
3) L1	1016{1}	0.000	0.000	0	0	N.D. d	N.D. d
4) L1	1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1	1016{3}	0.000	0.000	0	0	N.D. d	N.D. d
6) L1	1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1	1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9) L7	1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7	1260{3}	0.000	0.000	0	0	N.D.	N.D.
11) L7	1260{4}	0.000	0.000	0	0	N.D.	N.D. d
12) L7	1260{5}	0.000	0.000	0	0	N.D. d	N.D.
Sum	1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	4.301	4.326	22623591	19428216	NoCal	NoCal
19) L5	1248{2}	4.485	4.541	30598810	23788763	NoCal	NoCal
20) L5	1248{3}	4.555	4.639	20624139	26716482	NoCal	NoCal
21) L5	1248{4}	4.830	4.845	32966325	27416705	NoCal	NoCal
22) L5	1248{5}	4.854	4.882	32495649	32334069	NoCal	NoCal
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\042624\
Data File : I24E117030.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 2:41 pm
Operator : PJG
Sample : 1248 10 Inst : ECD 9
Misc : mix[l5]
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:26:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:00 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D.	N.D.
34)	L9 1268{2}	0.000	0.000	0	0	N.D.	N.D.
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D.	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	0.000	0.000	0	0	N.D.	N.D.
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D.
40)	L2 1221{3}	0.000	0.000	0	0	N.D.	N.D. d
	Sum 1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D.	N.D.
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D.	N.D.
44)	L8 1262{4}	0.000	0.000	0	0	N.D.	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

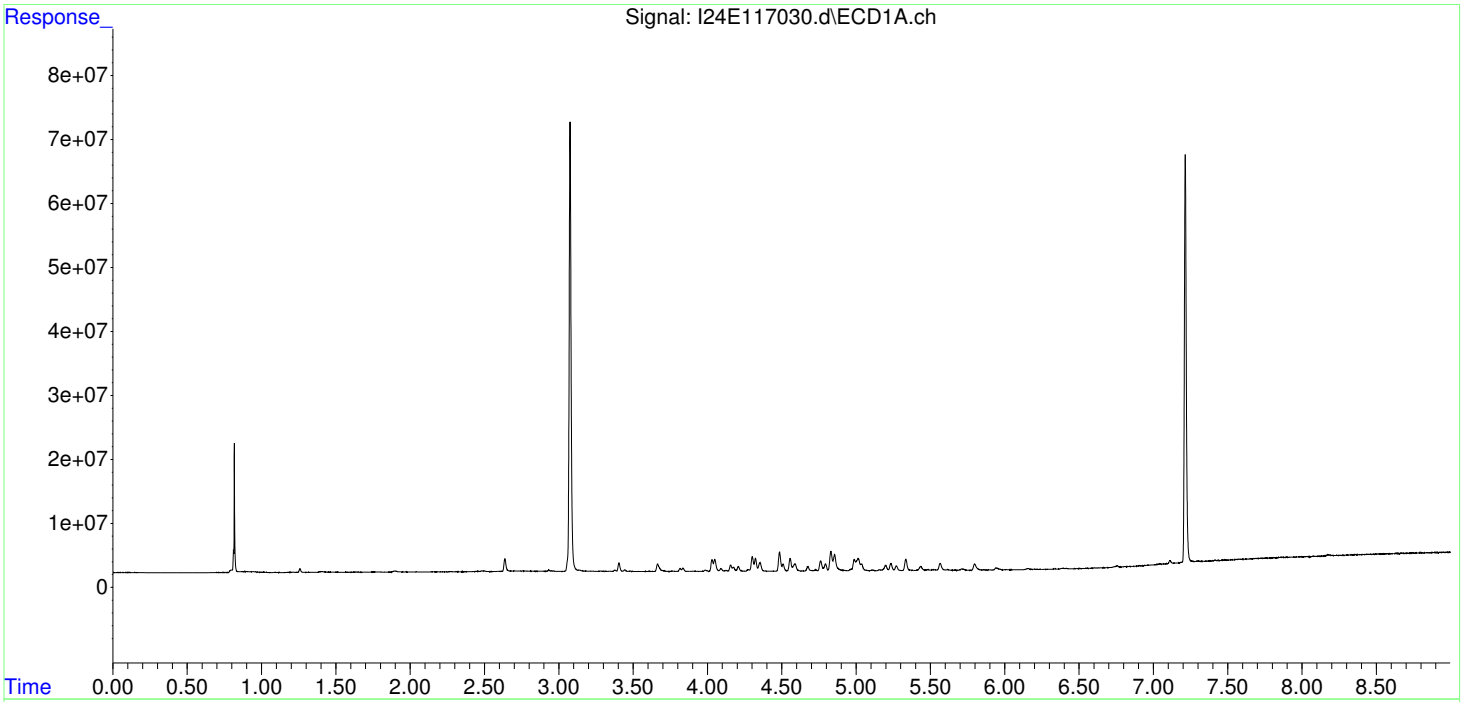
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

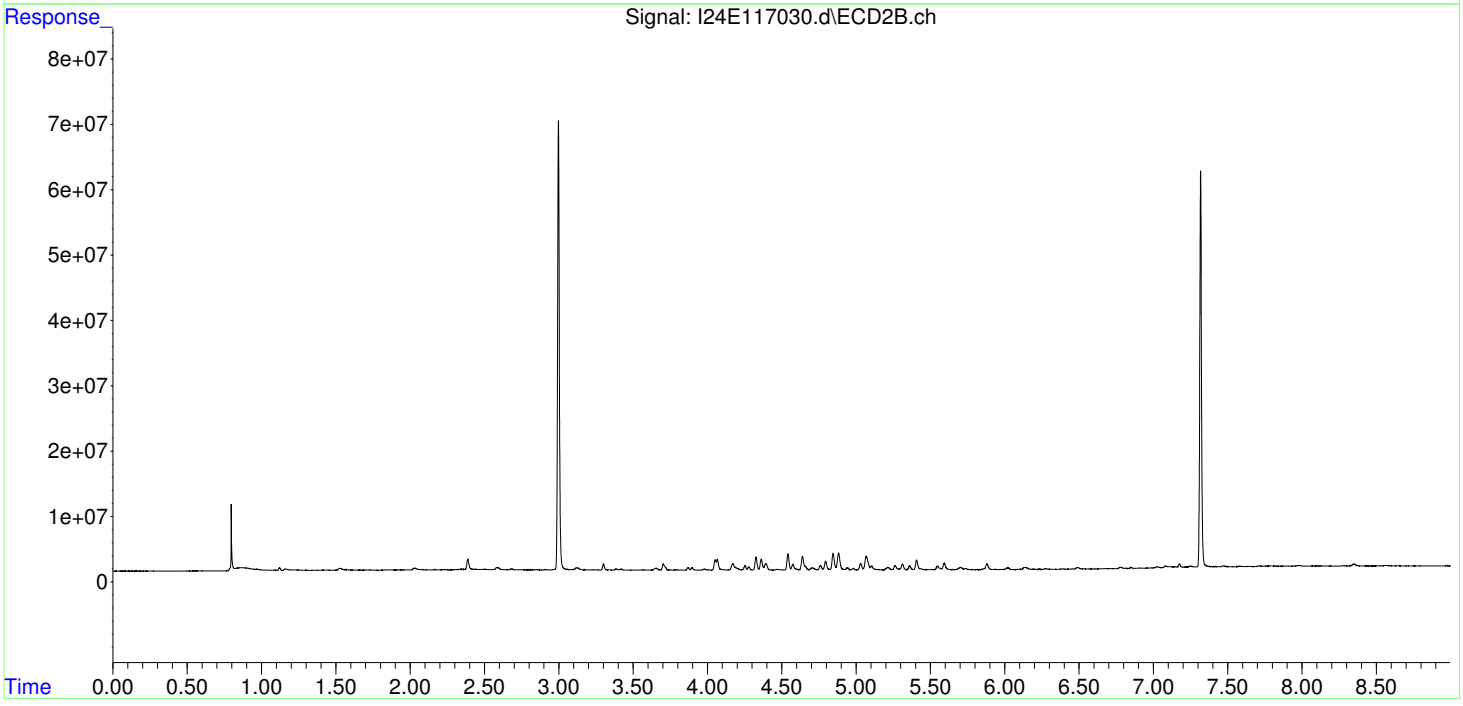
Data Path : C:\msdchem\1\data\042624\
Data File : I24E117030.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 2:41 pm
Operator : PJG
Sample : 1248 10 Inst : ECD 9
Misc : mix[l5]
ALS Vial : 30 Sample Multiplier: 1

3358

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:26:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:26:00 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

3359

Data Path : C:\msdchem\1\data\042624\
Data File : I24E117031.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 2:53 pm
Operator : PJG
Sample : 1248 20 Inst : ECD 9
Misc : mix[l5]
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:26:01 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
2) S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
3) L1	1016{1}	0.000	0.000	0	0	N.D. d	N.D. d
4) L1	1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1	1016{3}	0.000	0.000	0	0	N.D. d	N.D. d
6) L1	1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1	1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9) L7	1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7	1260{3}	0.000	0.000	0	0	N.D. d	N.D.
11) L7	1260{4}	0.000	0.000	0	0	N.D.	N.D. d
12) L7	1260{5}	0.000	0.000	0	0	N.D. d	N.D.
Sum	1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	4.301	4.326	41685025	35626274	18.425	18.337
19) L5	1248{2}	4.484	4.541	57238968	44579400	18.706	18.740
20) L5	1248{3}	4.555	4.639	39259394	50473384	19.036	18.892
21) L5	1248{4}	4.829	4.845	65420537	51621455	19.845	18.828
22) L5	1248{5}	4.853	4.882	65201802	60661757	20.065	18.761
Sum	1248			268.8E6	243.0E6	96.077	93.559
Average	1248					19.215	18.712
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\042624\
Data File : I24E117031.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 2:53 pm
Operator : PJG
Sample : 1248 20 Inst : ECD 9
Misc : mix[l5]
ALS Vial : 31 Sample Multiplier: 1

3360

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:26:01 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D.	N.D.
34)	L9 1268{2}	0.000	0.000	0	0	N.D.	N.D.
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D.	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	0.000	0.000	0	0	N.D.	N.D.
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D.
40)	L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D.	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D.
44)	L8 1262{4}	0.000	0.000	0	0	N.D.	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

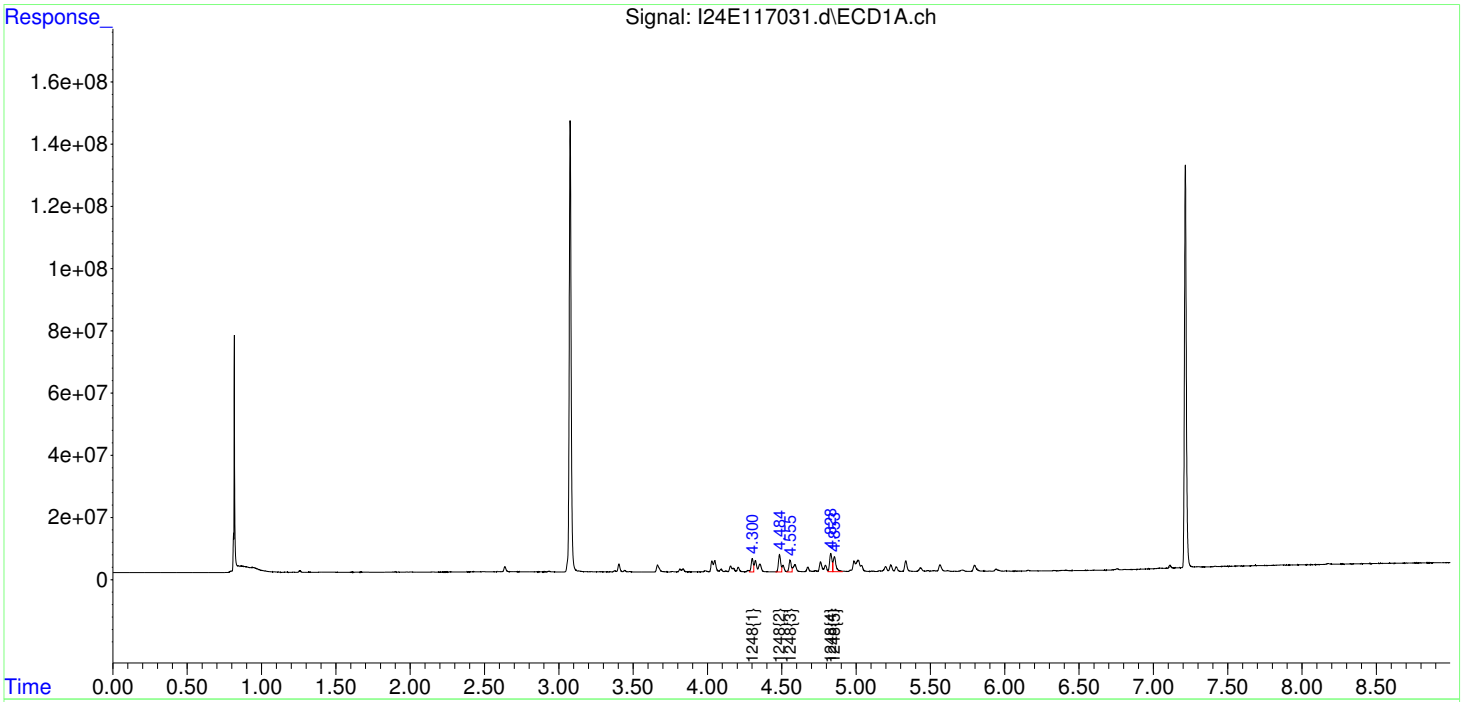
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

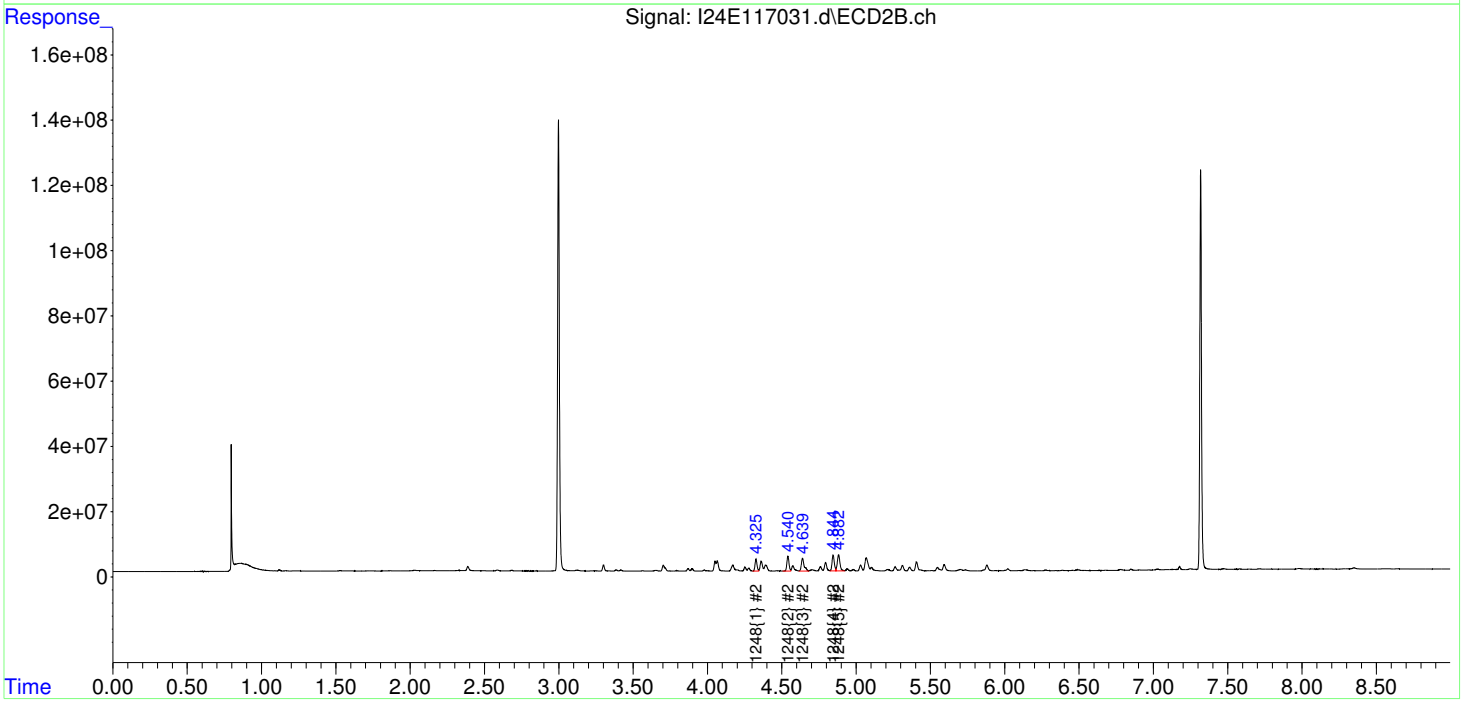
Data Path : C:\msdchem\1\data\042624\
Data File : I24E117031.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 2:53 pm
Operator : PJG
Sample : 1248 20 Inst : ECD 9
Misc : mix[l5]
ALS Vial : 31 Sample Multiplier: 1

3361

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:26:01 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:26:01 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

3362

Data Path : C:\msdchem\1\data\042624\
Data File : I24E117032.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 3:05 pm
Operator : PJG
Sample : 1248 50 Inst : ECD 9
Misc : mix[l5]
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:26:02 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
2) S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
3) L1	1016{1}	0.000	0.000	0	0	N.D. d	N.D. d
4) L1	1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1	1016{3}	0.000	0.000	0	0	N.D. d	N.D. d
6) L1	1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1	1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9) L7	1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7	1260{3}	0.000	0.000	0	0	N.D. d	N.D. d
11) L7	1260{4}	0.000	0.000	0	0	N.D.	N.D. d
12) L7	1260{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	4.302	4.326	97983944	80391683	45.085	43.173
19) L5	1248{2}	4.486	4.541	133.2E6	103.5E6	44.975	44.916
20) L5	1248{3}	4.557	4.639	92278310	117.6E6	45.848	45.276
21) L5	1248{4}	4.830	4.845	153.6E6	121.4E6	46.763	45.630
22) L5	1248{5}	4.855	4.882	154.2E6	141.3E6	47.361	45.106
Sum	1248			631.1E6	564.3E6	230.032	224.102
Average	1248					46.006	44.820
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\042624\
Data File : I24E117032.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 3:05 pm
Operator : PJG
Sample : 1248 50 Inst : ECD 9
Misc : mix[l5]
ALS Vial : 32 Sample Multiplier: 1

3363

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:26:02 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40)	L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D.	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D.	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

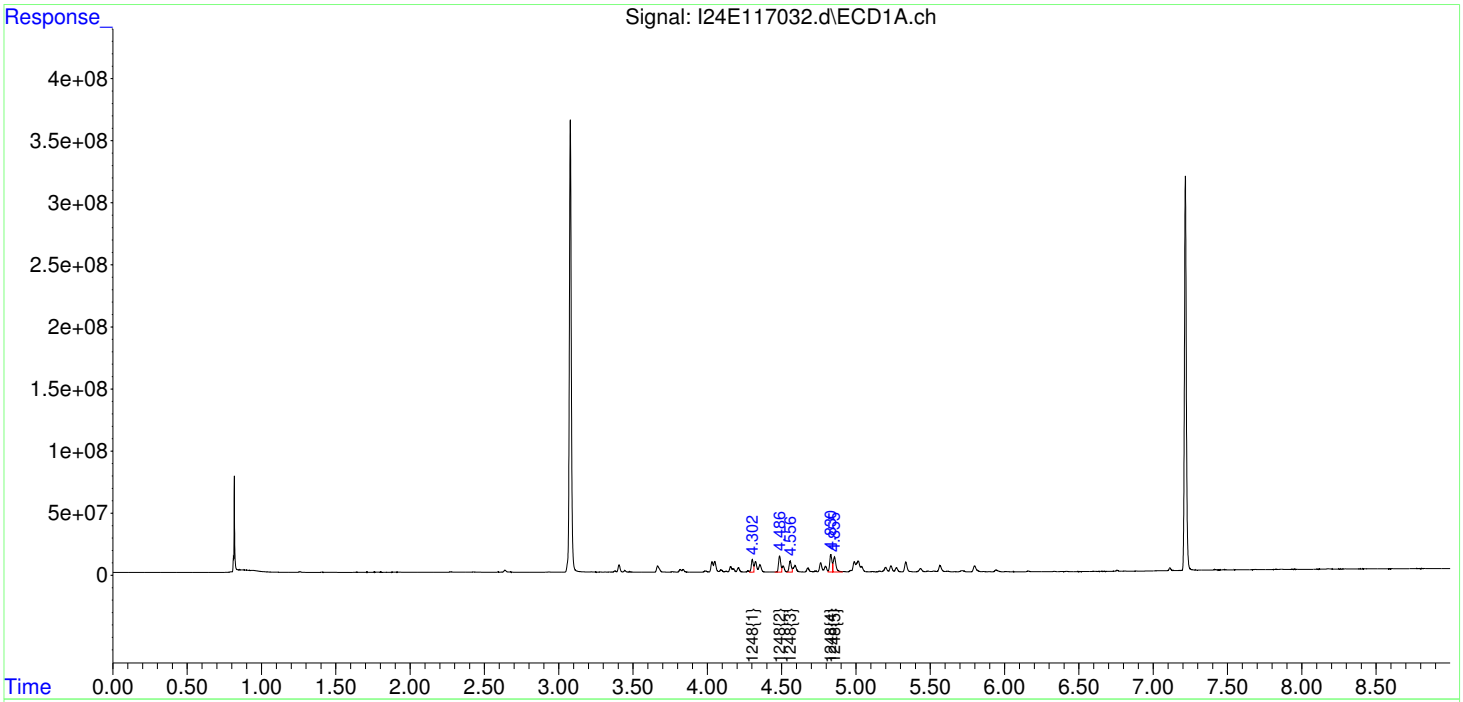
Quantitation Report (Not Reviewed)

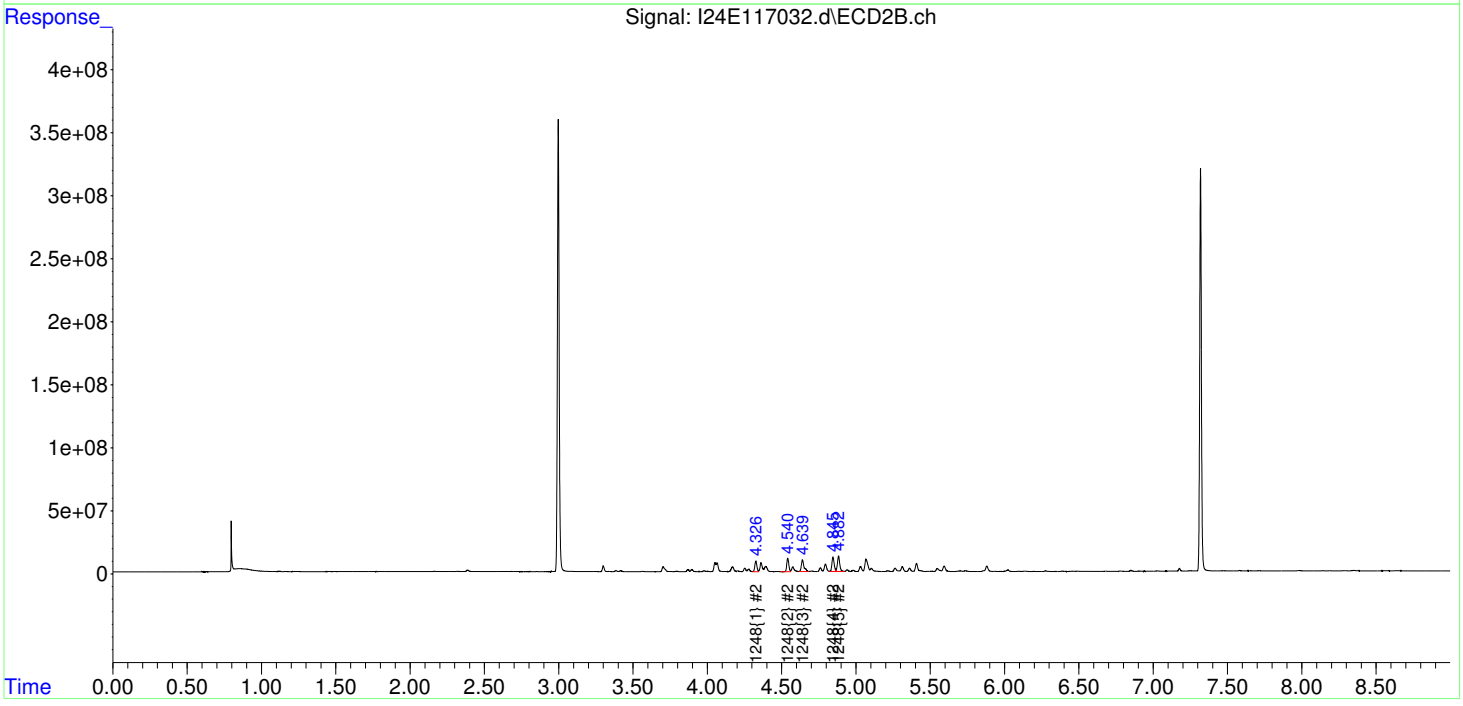
3364

Data Path : C:\msdchem\1\data\042624\
Data File : I24E117032.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 3:05 pm
Operator : PJG
Sample : 1248 50 Inst : ECD 9
Misc : mix[l5]
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:26:02 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:26:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

3365

Data Path : C:\msdchem\1\data\042624\
Data File : I24E117033.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 3:17 pm
Operator : PJG
Sample : 1248 100 Inst : ECD 9
Misc : mix[l5]
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:26:03 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
2) S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
3) L1	1016{1}	0.000	0.000	0	0	N.D. d	N.D. d
4) L1	1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1	1016{3}	0.000	0.000	0	0	N.D. d	N.D. d
6) L1	1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1	1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9) L7	1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7	1260{3}	0.000	0.000	0	0	N.D. d	N.D. d
11) L7	1260{4}	0.000	0.000	0	0	N.D. d	N.D. d
12) L7	1260{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	4.301	4.326	179.3E6	148.3E6	85.301	83.466
19) L5	1248{2}	4.484	4.541	246.9E6	194.2E6	86.273	87.247
20) L5	1248{3}	4.555	4.640	171.1E6	220.6E6	87.456	87.670
21) L5	1248{4}	4.828	4.845	291.0E6	230.0E6	90.574	89.022
22) L5	1248{5}	4.853	4.882	282.4E6	267.9E6	88.304	88.386
Sum	1248			1170.7E6	1061.0E6	437.907	435.791
Average	1248					87.581	87.158
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\042624\
Data File : I24E117033.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 3:17 pm
Operator : PJG
Sample : 1248 100 Inst : ECD 9
Misc : mix[l5]
ALS Vial : 33 Sample Multiplier: 1

3366

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:26:03 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D.
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40)	L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D.	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

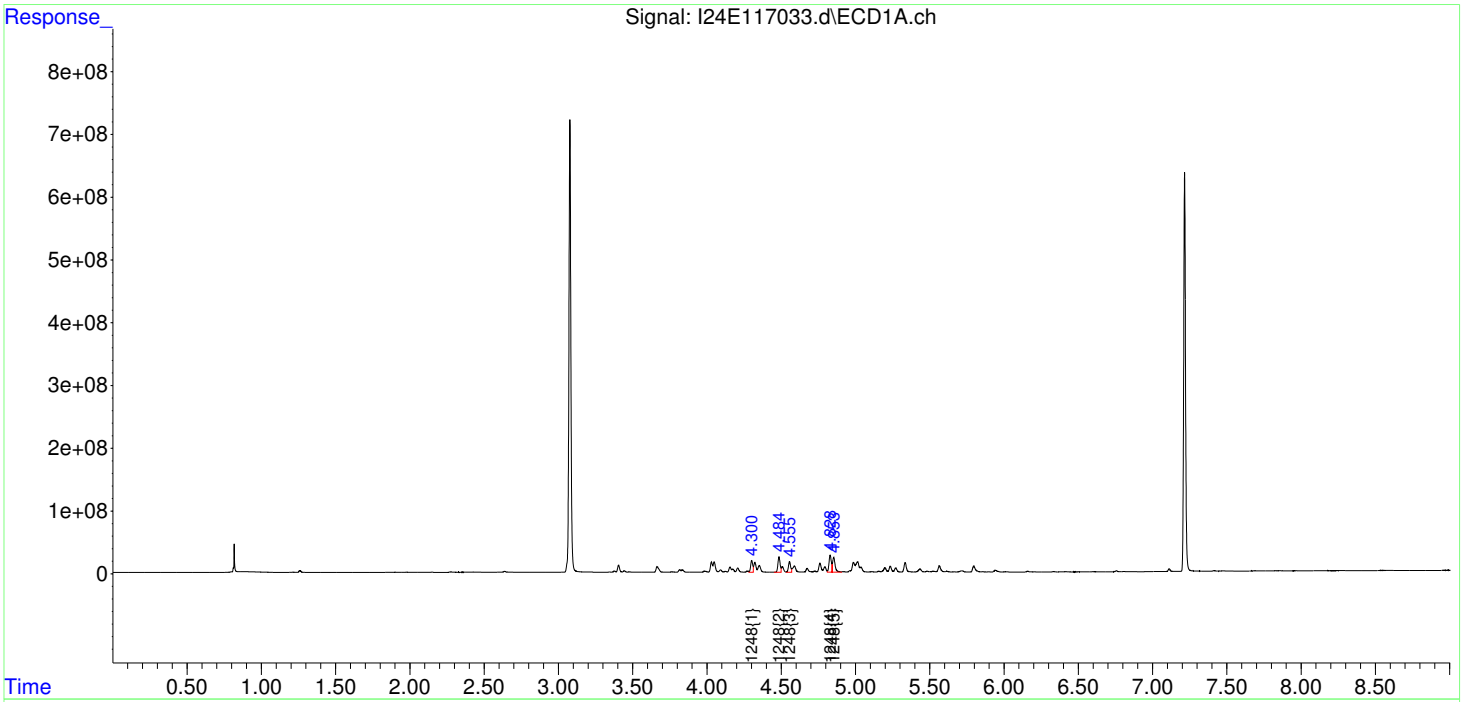
Quantitation Report (Not Reviewed)

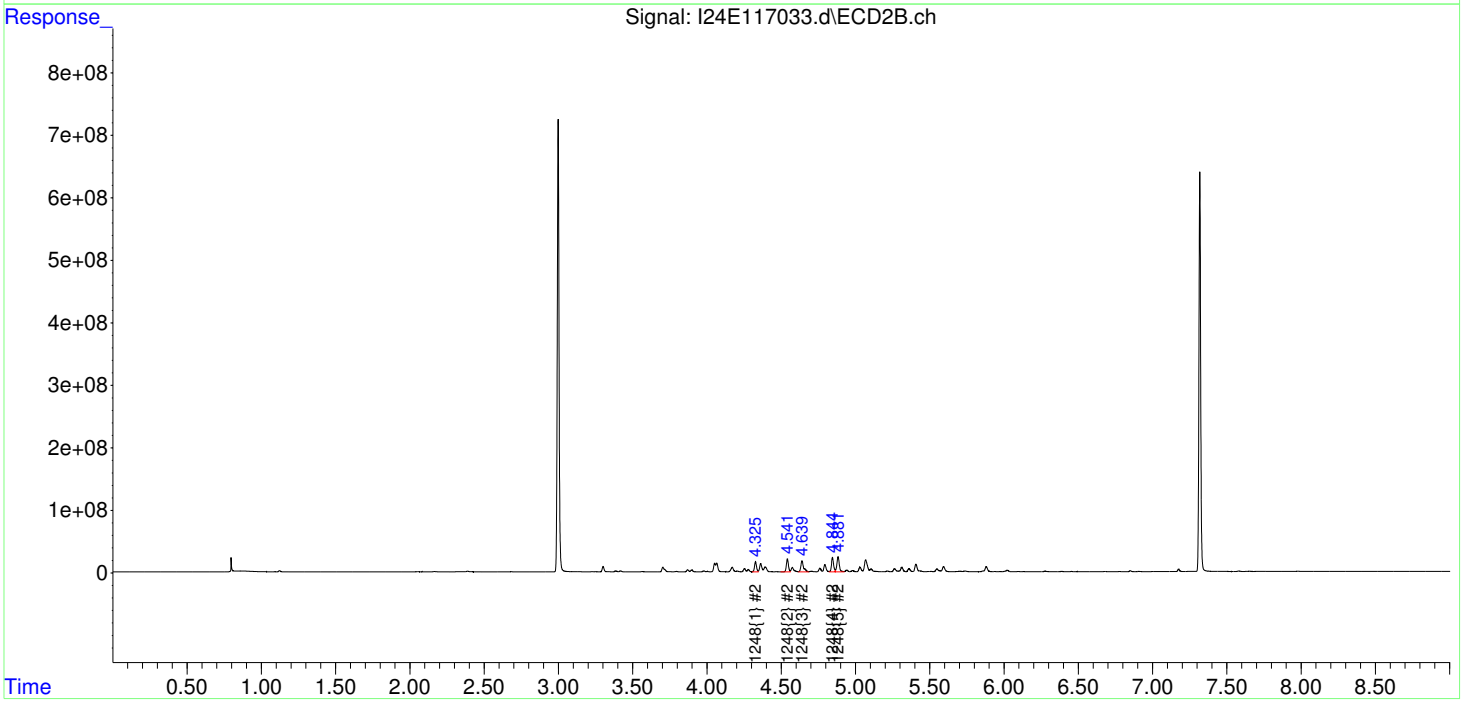
3367

Data Path : C:\msdchem\1\data\042624\
Data File : I24E117033.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 3:17 pm
Operator : PJG
Sample : 1248 100 Inst : ECD 9
Misc : mix[l5]
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:26:03 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:26:02 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

3368

Data Path : C:\msdchem\1\data\042624\
Data File : I24E117034.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 3:30 pm
Operator : PJG
Sample : 1248 200 Inst : ECD 9
Misc : mix[l5]
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:26:04 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:03 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
2) S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
3) L1	1016{1}	0.000	0.000	0	0	N.D. d	N.D. d
4) L1	1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1	1016{3}	0.000	0.000	0	0	N.D. d	N.D. d
6) L1	1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1	1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9) L7	1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7	1260{3}	0.000	0.000	0	0	N.D. d	N.D. d
11) L7	1260{4}	0.000	0.000	0	0	N.D. d	N.D. d
12) L7	1260{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	4.302	4.326	334.0E6	280.4E6	164.974	164.573
19) L5	1248{2}	4.485	4.540	459.4E6	370.6E6	166.238	172.004
20) L5	1248{3}	4.556	4.639	320.0E6	419.3E6	168.807	171.983
21) L5	1248{4}	4.829	4.844	549.0E6	447.1E6	175.000	177.906
22) L5	1248{5}	4.853	4.882	524.0E6	516.3E6	168.826	175.427
Sum	1248			2186.5E6	2033.8E6	843.846	861.894
Average	1248					168.769	172.379
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\042624\
Data File : I24E117034.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 3:30 pm
Operator : PJG
Sample : 1248 200 Inst : ECD 9
Misc : mix[l5]
ALS Vial : 34 Sample Multiplier: 1

3369

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:26:04 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:03 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40)	L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D.	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

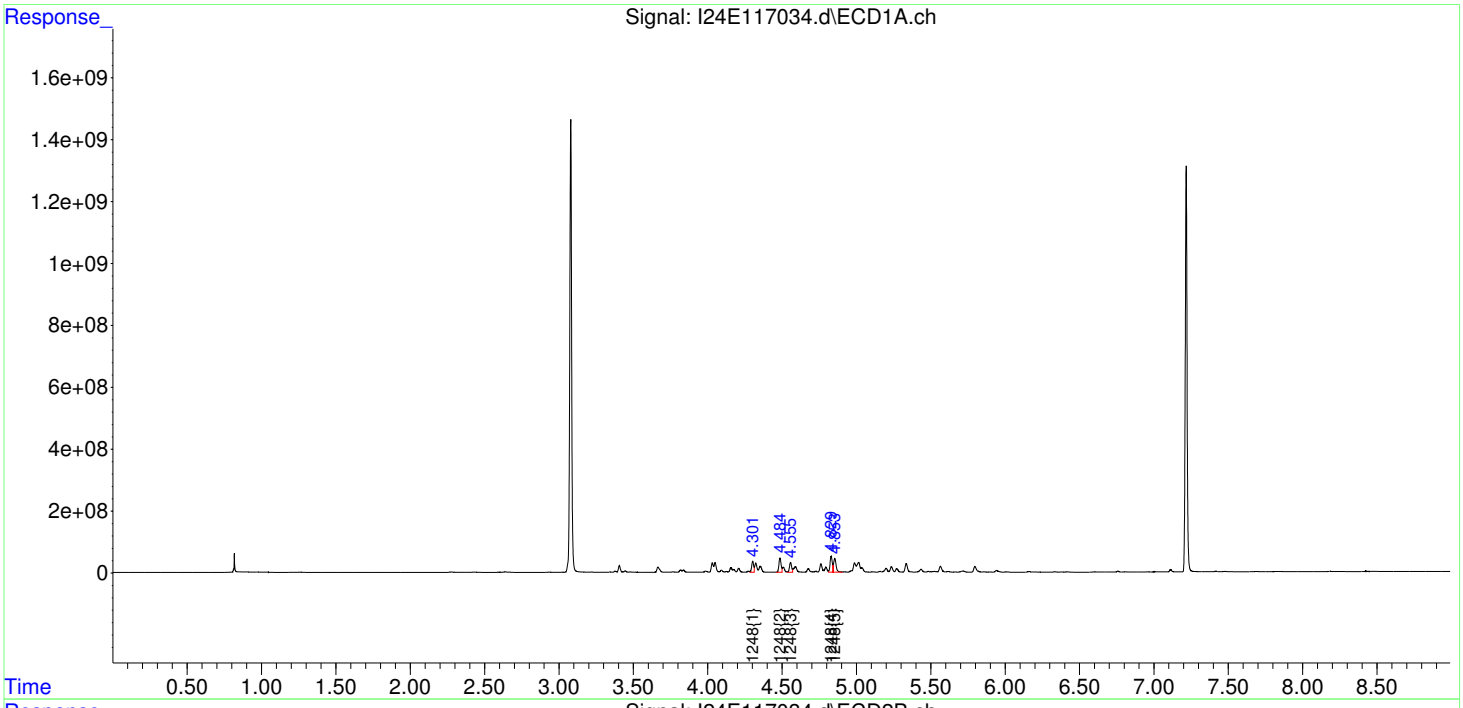
Quantitation Report (Not Reviewed)

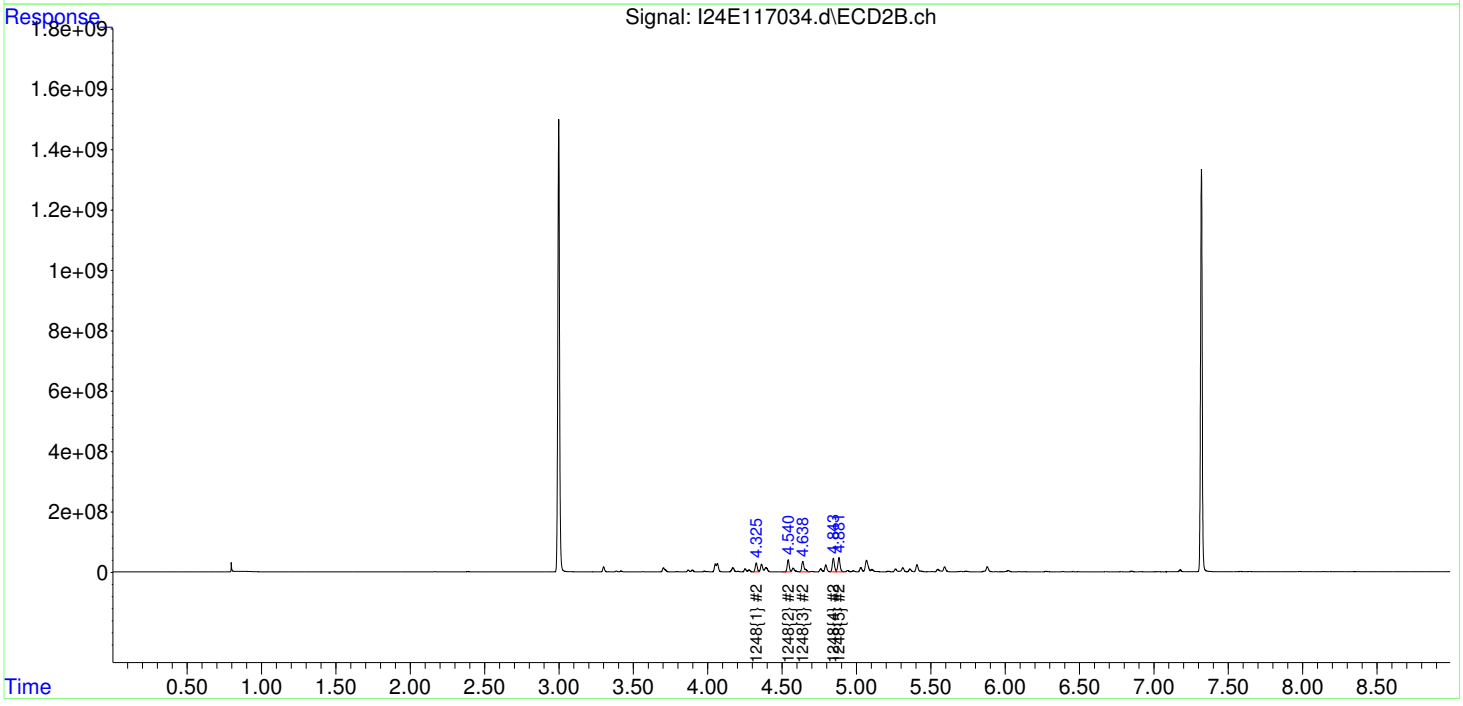
3370

Data Path : C:\msdchem\1\data\042624\
Data File : I24E117034.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 3:30 pm
Operator : PJG
Sample : 1248 200 Inst : ECD 9
Misc : mix[l5]
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:26:04 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:26:03 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

3371

Data Path : C:\msdchem\1\data\042624\
Data File : I24E117035.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 3:41 pm
Operator : PJG
Sample : 1248 500 Inst : ECD 9
Misc : mix[l5]
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:26:05 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
2) S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
3) L1	1016{1}	0.000	0.000	0	0	N.D. d	N.D. d
4) L1	1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1	1016{3}	0.000	0.000	0	0	N.D. d	N.D. d
6) L1	1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1	1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9) L7	1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7	1260{3}	0.000	0.000	0	0	N.D. d	N.D. d
11) L7	1260{4}	0.000	0.000	0	0	N.D. d	N.D. d
12) L7	1260{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	4.301	4.326	645.8E6	631.3E6	330.497	384.150
19) L5	1248{2}	4.484	4.541	1011.8E6	863.4E6	378.919	412.201
20) L5	1248{3}	4.555	4.639	707.7E6	976.7E6	385.355	412.126
21) L5	1248{4}	4.828	4.844	1238.8E6	1056.0E6	405.009	429.708
22) L5	1248{5}	4.851	4.882	1059.2E6	1197.6E6	352.198	417.180
Sum	1248			4663.3E6	4725.0E6	1851.979	2055.364
Average	1248					370.396	411.073
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\042624\
Data File : I24E117035.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 3:41 pm
Operator : PJG
Sample : 1248 500 Inst : ECD 9
Misc : mix[l5]
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:26:05 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40)	L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D.	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

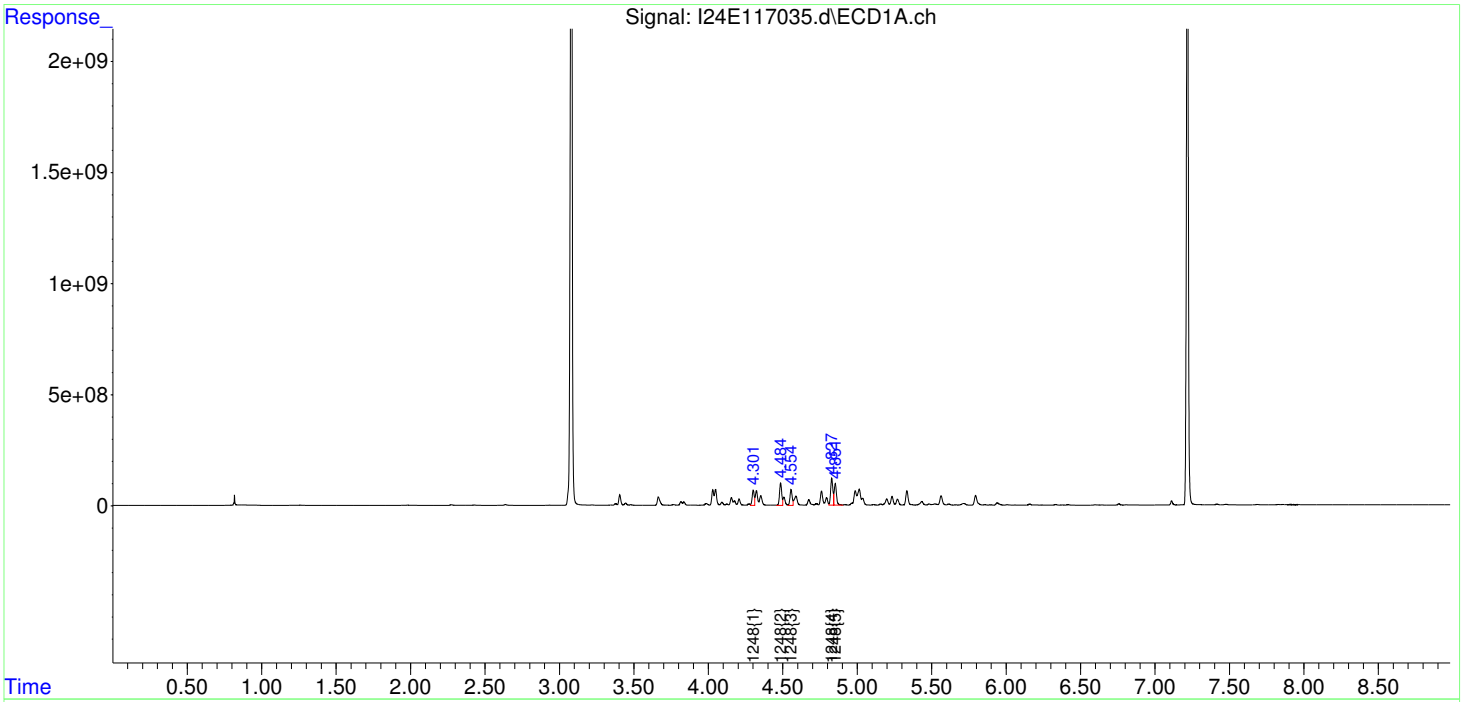
Quantitation Report (Not Reviewed)

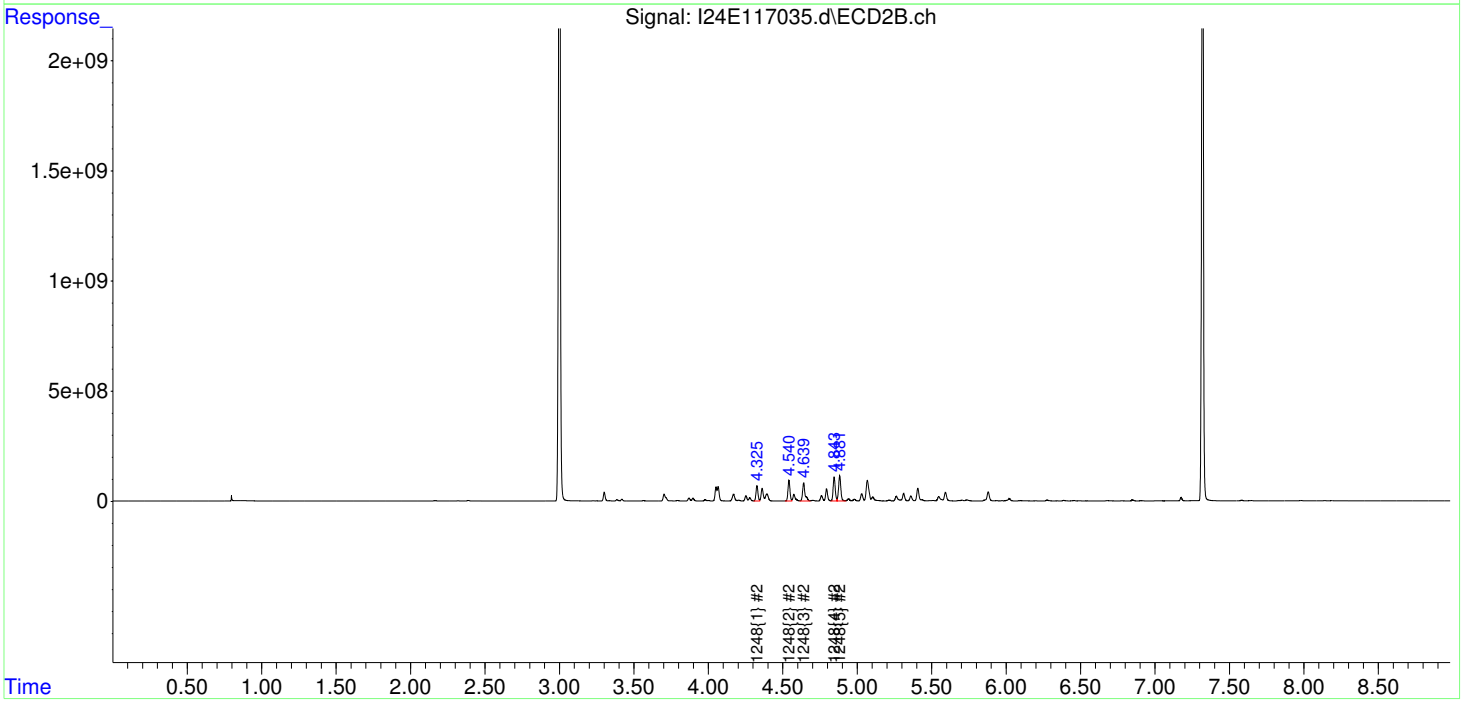
3373

Data Path : C:\msdchem\1\data\042624\
Data File : I24E117035.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 3:41 pm
Operator : PJG
Sample : 1248 500 Inst : ECD 9
Misc : mix[l5]
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:26:05 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:26:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

3374

Data Path : C:\msdchem\1\data\042624\
Data File : I24E117037.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 4:06 pm
Operator : PJG
Sample : 1248 ICV Inst : ECD 9
Misc : mix[l5]
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:26:30 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
2) S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
3) L1	1016{1}	0.000	0.000	0	0	N.D. d	N.D. d
4) L1	1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1	1016{3}	0.000	0.000	0	0	N.D. d	N.D. d
6) L1	1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1	1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9) L7	1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7	1260{3}	0.000	0.000	0	0	N.D. d	N.D. d
11) L7	1260{4}	0.000	0.000	0	0	N.D. d	N.D. d
12) L7	1260{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	4.302	4.326	184.9E6	154.7E6	100.302	97.888
19) L5	1248{2}	4.486	4.541	259.5E6	202.7E6	101.278	99.717
20) L5	1248{3}	4.556	4.639	178.5E6	229.2E6	101.065	99.613
21) L5	1248{4}	4.830	4.844	301.0E6	235.6E6	101.637	98.158
22) L5	1248{5}	4.855	4.882	289.9E6	274.0E6	101.389	98.171
Sum	1248			1213.9E6	1096.2E6	505.671	493.548
Average	1248					101.134	98.710
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\042624\
Data File : I24E117037.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 4:06 pm
Operator : PJG
Sample : 1248 ICV Inst : ECD 9
Misc : mix[l5]
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:26:30 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D.
36)	L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40)	L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D.	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

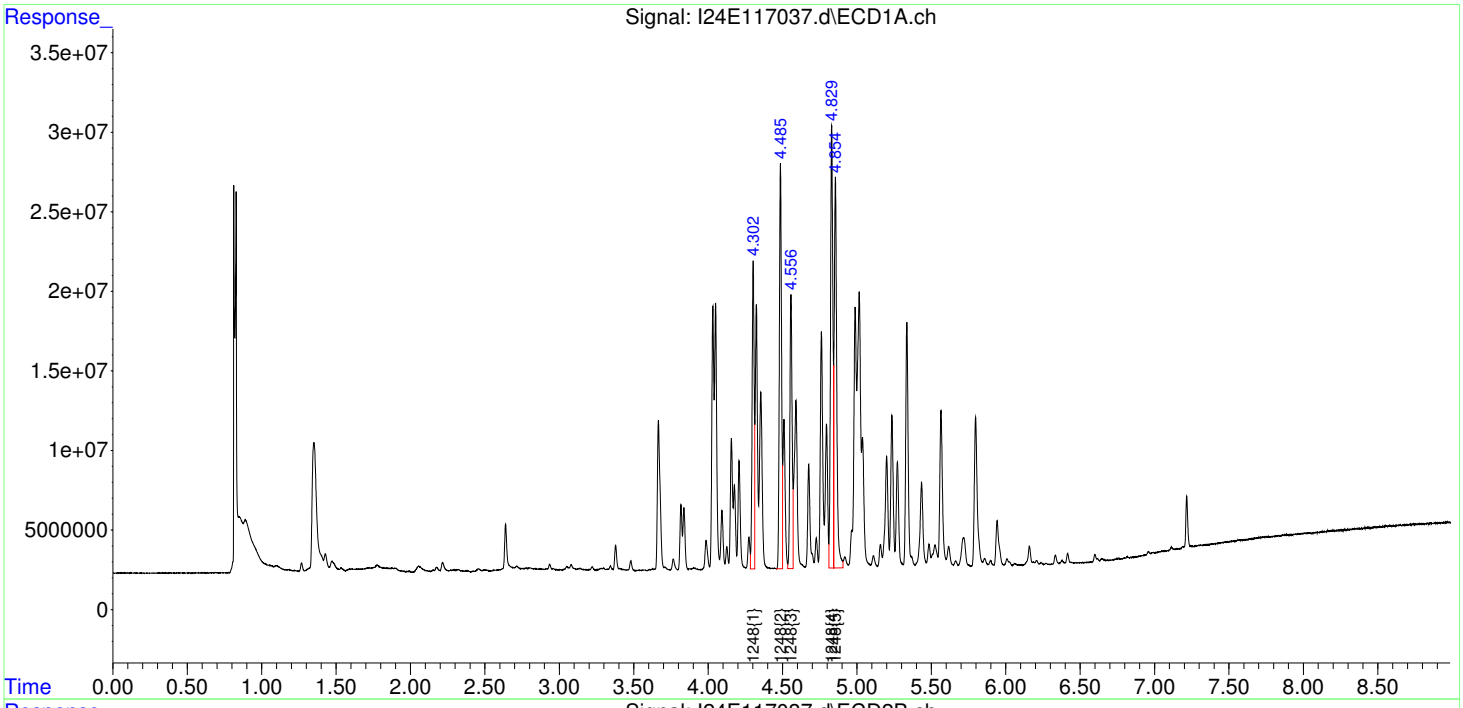
Quantitation Report (Not Reviewed)

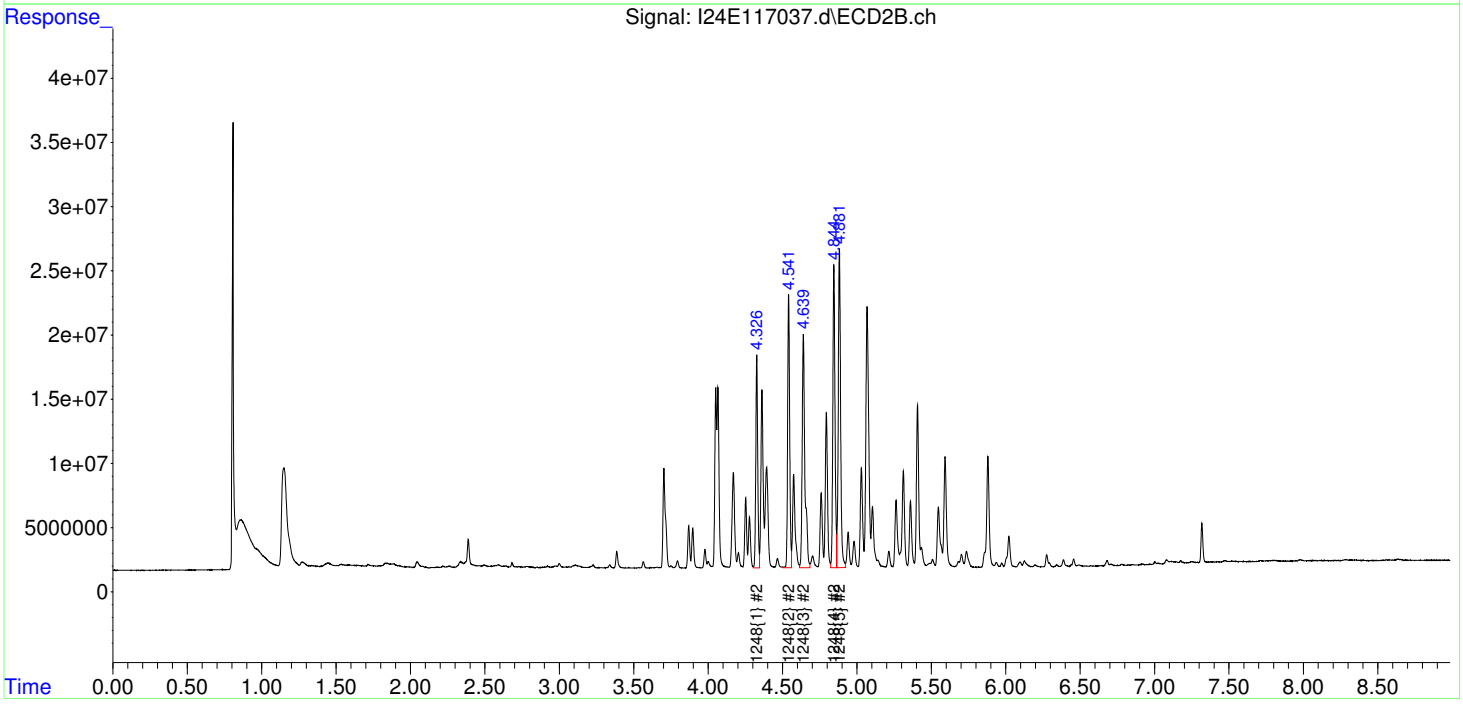
3376

Data Path : C:\msdchem\1\data\042624\
Data File : I24E117037.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 26 Apr 2024 4:06 pm
Operator : PJG
Sample : 1248 ICV Inst : ECD 9
Misc : mix[l5]
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Apr 28 09:26:30 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

3377

Data Path : C:\msdchem\1\data\022724\
Data File : I24E058029.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2024 2:46 pm
Operator : PJG
Sample : 1242 10 Inst : ECD 9
Misc : mix[l4]
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 28 08:58:30 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-022724C.M
Quant Title : 60/16-013124, 54-013124, 48-022724, 42-022724, 32/68-013124, 21/62-013124 2400245/246
QLast Update : Wed Feb 28 08:58:29 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
2) S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
3) L1	1016{1}	0.000	0.000	0	0	N.D. d	N.D. d
4) L1	1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1	1016{3}	0.000	0.000	0	0	N.D. d	N.D. d
6) L1	1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1	1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9) L7	1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7	1260{3}	0.000	0.000	0	0	N.D.	N.D.
11) L7	1260{4}	0.000	0.000	0	0	N.D.	N.D.
12) L7	1260{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	3.954	4.020	12895518	9238681	NoCal	NoCal
24) L4	1242{2}	4.169	4.191	39440767	26071512	NoCal	NoCal
25) L4	1242{3}	4.329	4.380	18024543	10449430	NoCal	NoCal
26) L4	1242{4}	4.608	4.671	22544121	15187267	NoCal	NoCal
27) L4	1242{5}	4.980	4.977	22379112	14900267	NoCal	NoCal
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\022724\
Data File : I24E058029.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2024 2:46 pm
Operator : PJG
Sample : 1242 10 Inst : ECD 9
Misc : mix[l4]
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 28 08:58:30 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-022724C.M
Quant Title : 60/16-013124, 54-013124, 48-022724, 42-022724, 32/68-013124, 21/62-013124 2400245/246
QLast Update : Wed Feb 28 08:58:29 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D.
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D.
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D.	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40)	L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D.	N.D.
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D.	N.D.
44)	L8 1262{4}	0.000	0.000	0	0	N.D.	N.D.
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

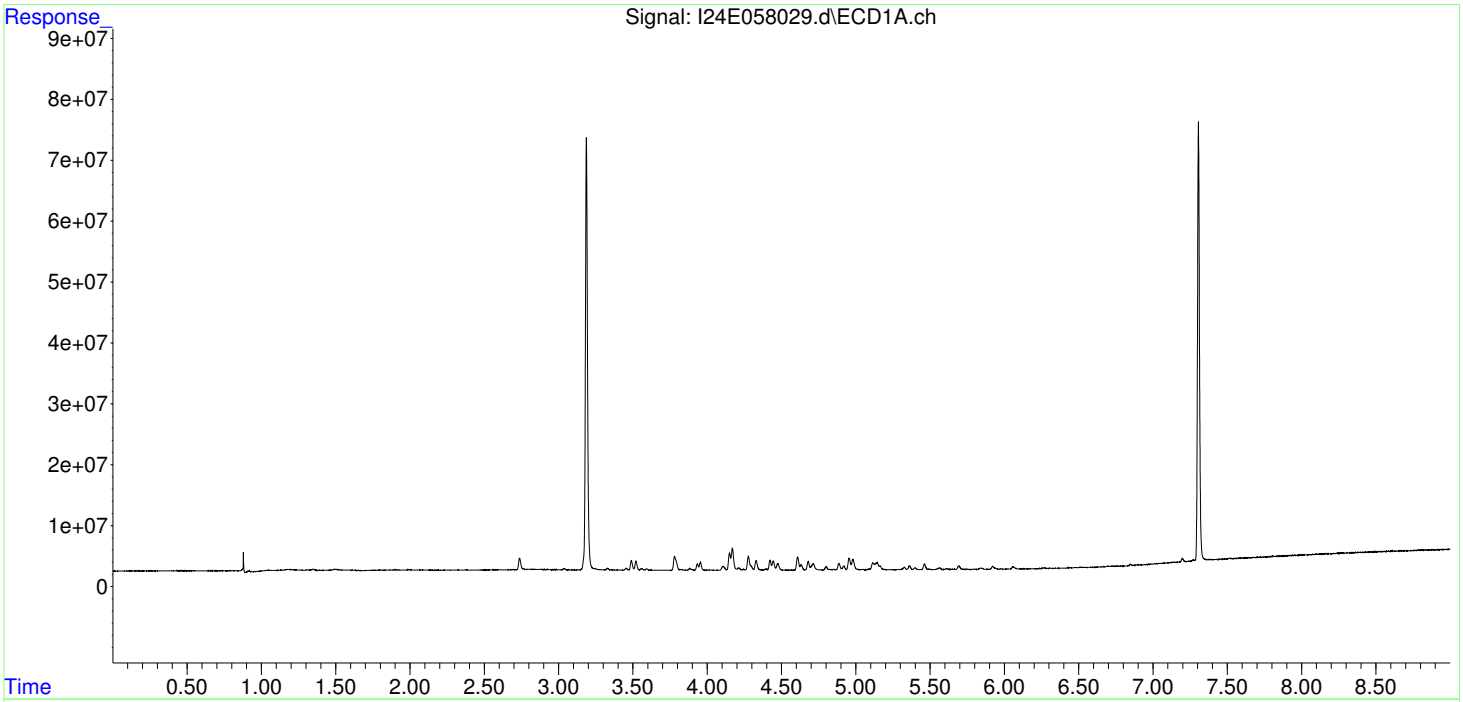
Quantitation Report (Not Reviewed)

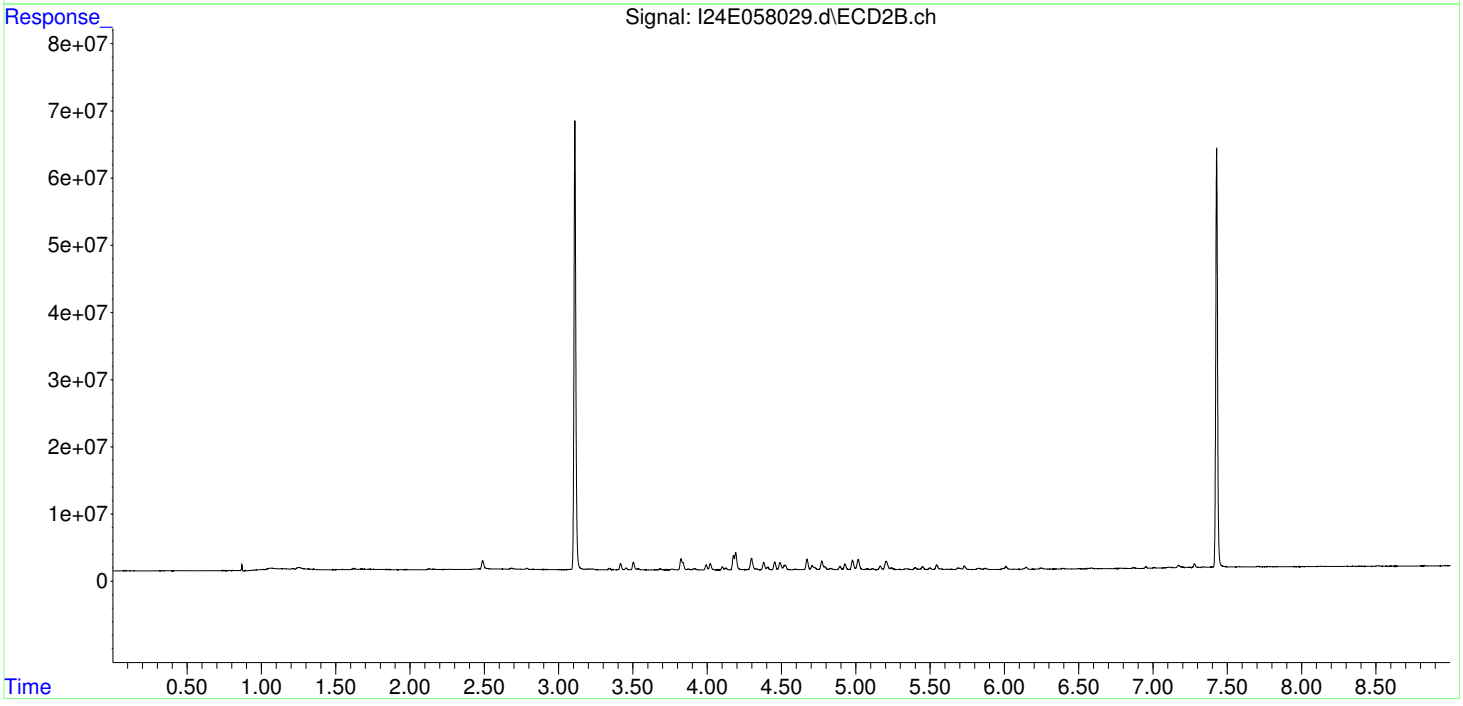
3379

Data Path : C:\msdchem\1\data\022724\
Data File : I24E058029.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2024 2:46 pm
Operator : PJG
Sample : 1242 10 Inst : ECD 9
Misc : mix[l4]
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 28 08:58:30 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-022724C.M
Quant Title : 60/16-013124, 54-013124, 48-022724, 42-022724, 32/68-013124, 21/62-013124 2400245/24
QLast Update : Wed Feb 28 08:58:29 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

3380

Data Path : C:\msdchem\1\data\022724\
Data File : I24E058030.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2024 2:58 pm
Operator : PJG
Sample : 1242 20 Inst : ECD 9
Misc : mix[l4]
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 28 08:58:30 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-022724C.M
Quant Title : 60/16-013124, 54-013124, 48-022724, 42-022724, 32/68-013124, 21/62-013124 2400245/246
QLast Update : Wed Feb 28 08:58:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
2) S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
3) L1	1016{1}	0.000	0.000	0	0	N.D. d	N.D. d
4) L1	1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1	1016{3}	0.000	0.000	0	0	N.D. d	N.D. d
6) L1	1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1	1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9) L7	1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7	1260{3}	0.000	0.000	0	0	N.D.	N.D.
11) L7	1260{4}	0.000	0.000	0	0	N.D.	N.D. d
12) L7	1260{5}	0.000	0.000	0	0	N.D. d	N.D.
Sum	1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	3.954	4.020	23740164	16474217	18.410	17.832
24) L4	1242{2}	4.169	4.191	72227594	46776170	18.313	17.941
25) L4	1242{3}	4.329	4.380	32899813	19022376	18.253	18.204
26) L4	1242{4}	4.608	4.671	40568831	27509429	17.995	18.113
27) L4	1242{5}	4.980	4.977	41820013	26888807	18.687	18.046
Sum	1242			211.3E6	136.7E6	91.658	90.137
Average	1242					18.332	18.027
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\022724\
Data File : I24E058030.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2024 2:58 pm
Operator : PJG
Sample : 1242 20 Inst : ECD 9
Misc : mix[l4]
ALS Vial : 30 Sample Multiplier: 1

3381

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 28 08:58:30 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-022724C.M
Quant Title : 60/16-013124, 54-013124, 48-022724, 42-022724, 32/68-013124, 21/62-013124 2400245/246
QLast Update : Wed Feb 28 08:58:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D.
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D.
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D.	N.D.
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40)	L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D.	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D.	N.D.
44)	L8 1262{4}	0.000	0.000	0	0	N.D.	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D.
	Sum 1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

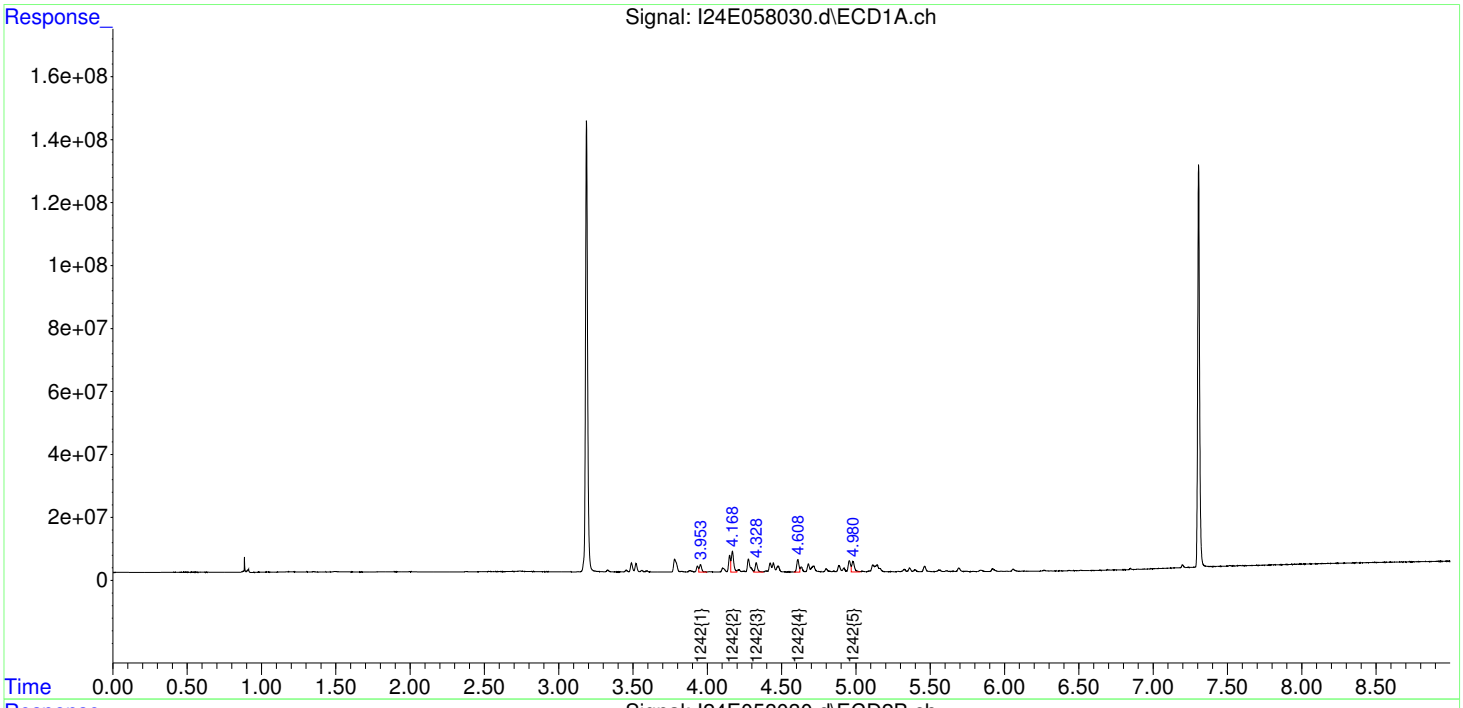
Quantitation Report (Not Reviewed)

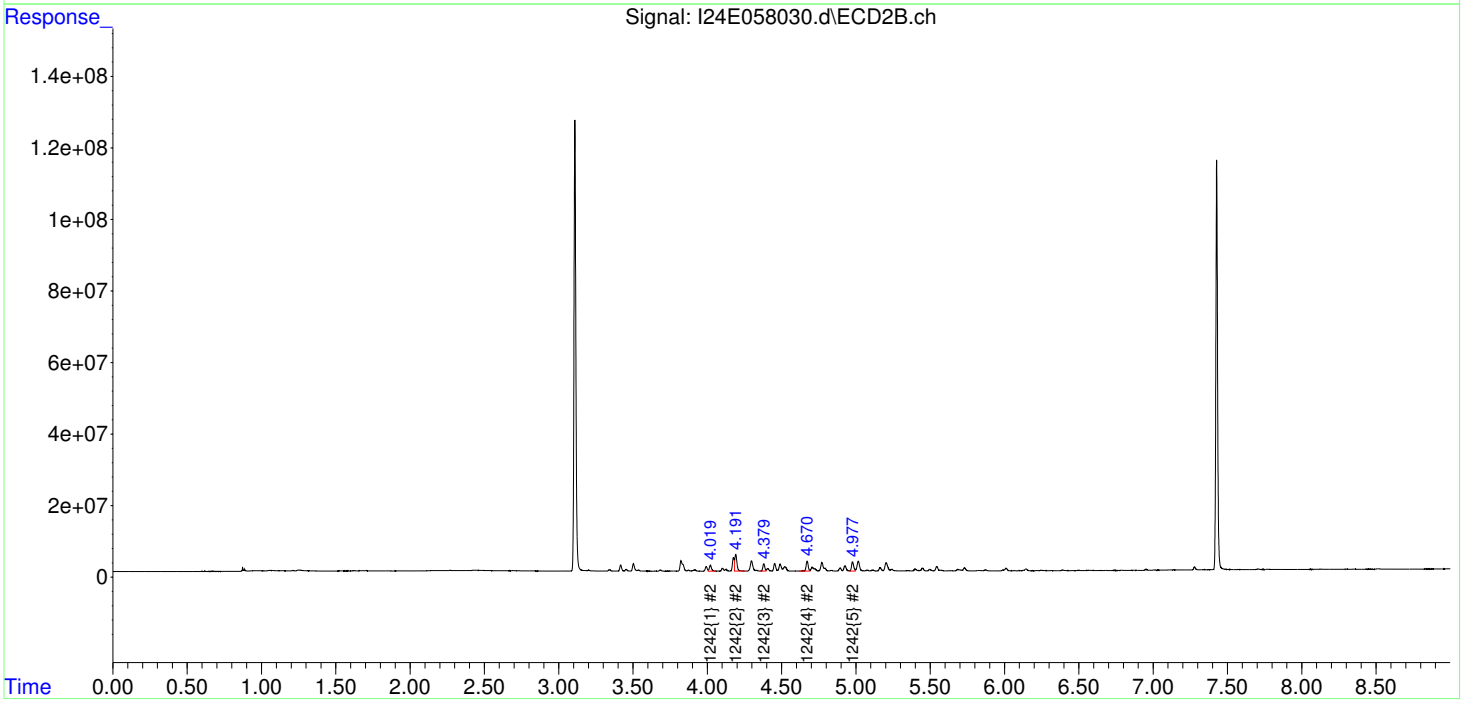
3382

Data Path : C:\msdchem\1\data\022724\
Data File : I24E058030.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2024 2:58 pm
Operator : PJG
Sample : 1242 20 Inst : ECD 9
Misc : mix[l4]
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 28 08:58:30 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-022724C.M
Quant Title : 60/16-013124, 54-013124, 48-022724, 42-022724, 32/68-013124, 21/62-013124 2400245/24
QLast Update : Wed Feb 28 08:58:30 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

3383

Data Path : C:\msdchem\1\data\022724\
Data File : I24E058031.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2024 3:10 pm
Operator : PJG
Sample : 1242 50 Inst : ECD 9
Misc : mix[l4]
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 28 08:58:31 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-022724C.M
Quant Title : 60/16-013124, 54-013124, 48-022724, 42-022724, 32/68-013124, 21/62-013124 2400245/246
QLast Update : Wed Feb 28 08:58:31 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
2) S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
3) L1	1016{1}	0.000	0.000	0	0	N.D. d	N.D. d
4) L1	1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1	1016{3}	0.000	0.000	0	0	N.D. d	N.D. d
6) L1	1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1	1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9) L7	1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7	1260{3}	0.000	0.000	0	0	N.D. d	N.D. d
11) L7	1260{4}	0.000	0.000	0	0	N.D. d	N.D. d
12) L7	1260{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	3.954	4.019	55975107	37169037	45.204	42.538
24) L4	1242{2}	4.168	4.191	166.1E6	110.9E6	43.973	44.826
25) L4	1242{3}	4.328	4.379	75823950	44743670	43.988	44.832
26) L4	1242{4}	4.608	4.671	92859635	61908058	43.363	42.781
27) L4	1242{5}	4.980	4.977	95316092	61166662	44.037	43.159
Sum	1242			486.1E6	315.8E6	220.566	218.136
Average	1242					44.113	43.627
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\022724\
Data File : I24E058031.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2024 3:10 pm
Operator : PJG
Sample : 1242 50 Inst : ECD 9
Misc : mix[l4]
ALS Vial : 31 Sample Multiplier: 1

3384

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 28 08:58:31 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-022724C.M
Quant Title : 60/16-013124, 54-013124, 48-022724, 42-022724, 32/68-013124, 21/62-013124 2400245/246
QLast Update : Wed Feb 28 08:58:31 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D.	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D.	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40)	L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D. d	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

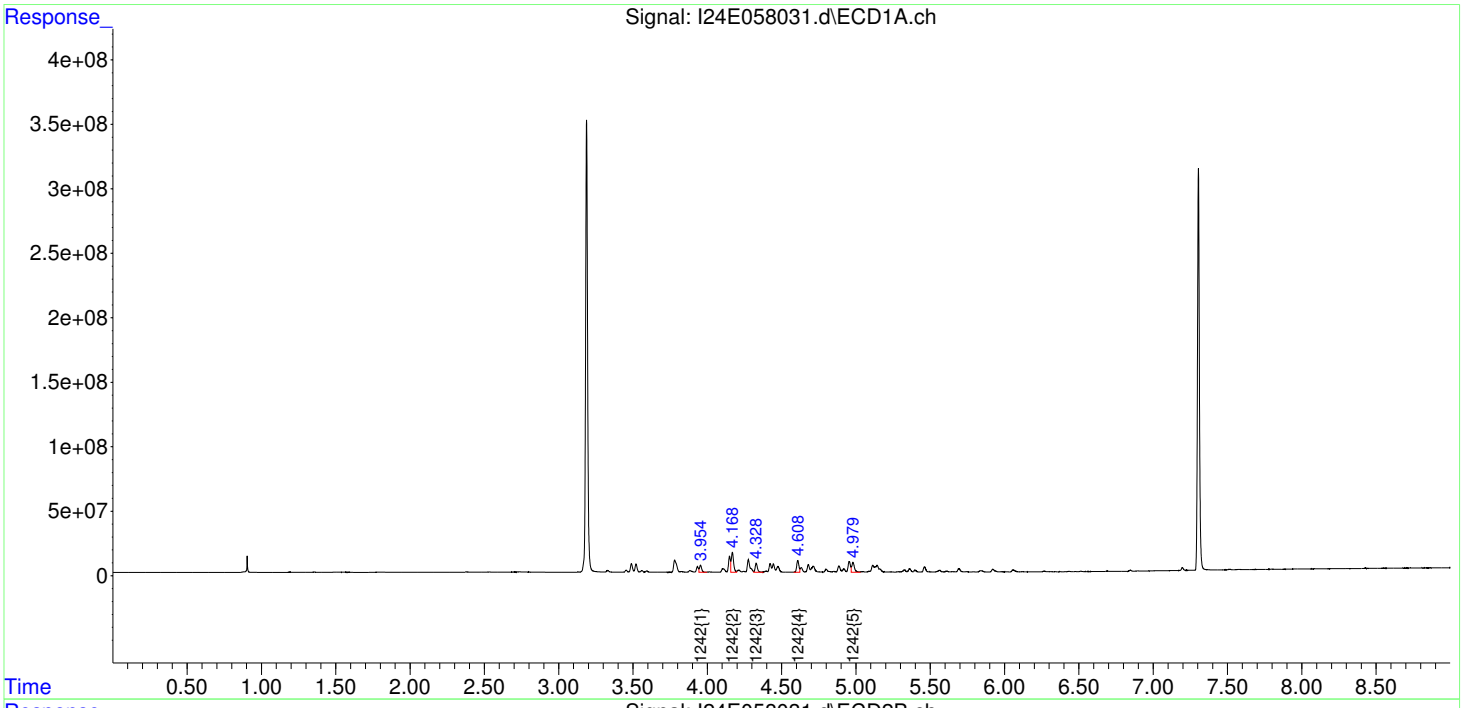
Quantitation Report (Not Reviewed)

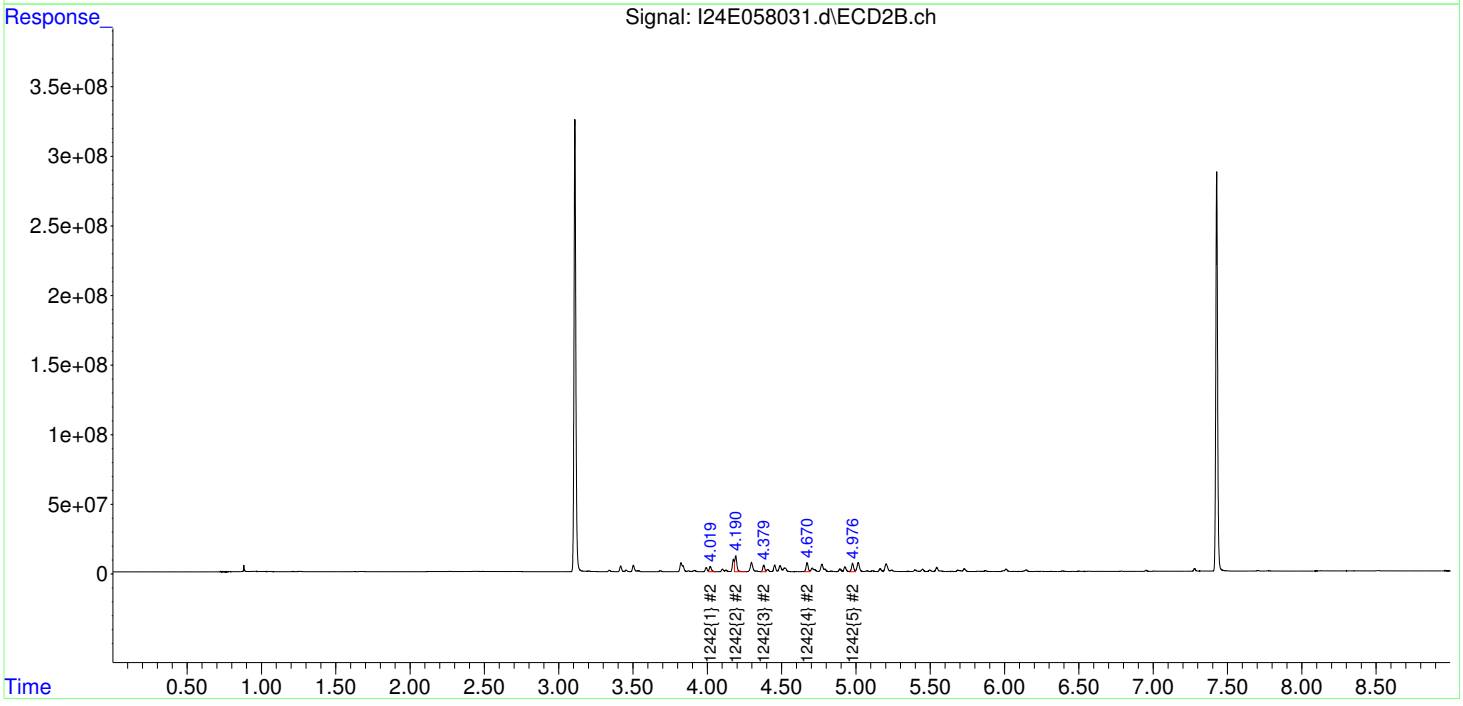
3385

Data Path : C:\msdchem\1\data\022724\
Data File : I24E058031.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2024 3:10 pm
Operator : PJG
Sample : 1242 50 Inst : ECD 9
Misc : mix[l4]
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 28 08:58:31 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-022724C.M
Quant Title : 60/16-013124, 54-013124, 48-022724, 42-022724, 32/68-013124, 21/62-013124 2400245/24
QLast Update : Wed Feb 28 08:58:31 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

3386

Data Path : C:\msdchem\1\data\022724\
Data File : I24E058032.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2024 3:22 pm
Operator : PJG
Sample : 1242 100 Inst : ECD 9
Misc : mix[l4]
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 28 08:58:32 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-022724C.M
Quant Title : 60/16-013124, 54-013124, 48-022724, 42-022724, 32/68-013124, 21/62-013124 2400245/246
QLast Update : Wed Feb 28 08:58:32 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
2) S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
3) L1	1016{1}	0.000	0.000	0	0	N.D. d	N.D. d
4) L1	1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1	1016{3}	0.000	0.000	0	0	N.D. d	N.D. d
6) L1	1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1	1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9) L7	1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7	1260{3}	0.000	0.000	0	0	N.D. d	N.D. d
11) L7	1260{4}	0.000	0.000	0	0	N.D. d	N.D. d
12) L7	1260{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	3.954	4.020	102.2E6	68324694	85.270	82.287
24) L4	1242{2}	4.168	4.190	312.8E6	215.1E6	86.278	90.107
25) L4	1242{3}	4.328	4.379	142.4E6	85368021	86.083	88.589
26) L4	1242{4}	4.608	4.671	172.5E6	116.1E6	84.298	84.279
27) L4	1242{5}	4.980	4.977	177.2E6	115.4E6	85.246	85.334
Sum	1242			907.2E6	600.4E6	427.176	430.595
Average	1242					85.435	86.119
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\022724\
Data File : I24E058032.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2024 3:22 pm
Operator : PJG
Sample : 1242 100 Inst : ECD 9
Misc : mix[l4]
ALS Vial : 32 Sample Multiplier: 1

3387

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 28 08:58:32 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-022724C.M
Quant Title : 60/16-013124, 54-013124, 48-022724, 42-022724, 32/68-013124, 21/62-013124 2400245/246
QLast Update : Wed Feb 28 08:58:32 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D.	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D.
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40)	L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D. d	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

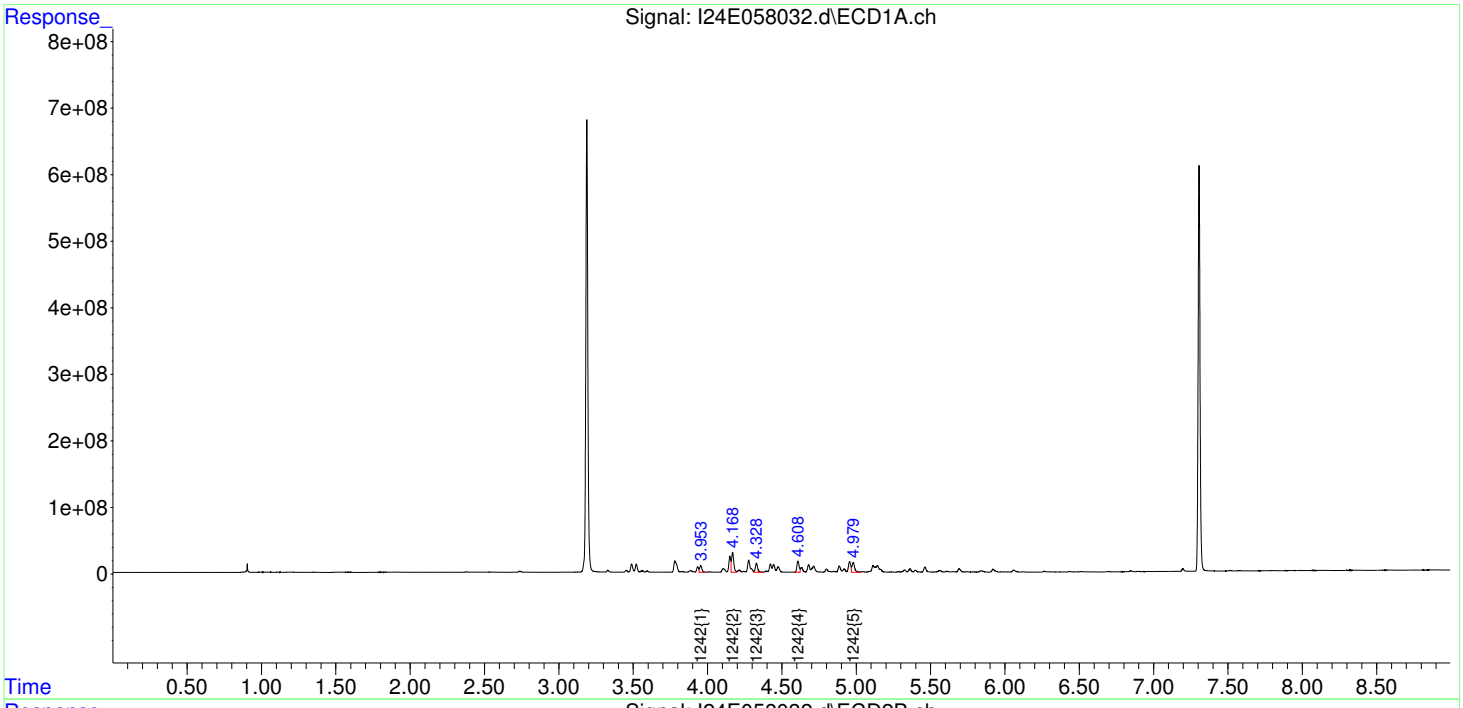
Quantitation Report (Not Reviewed)

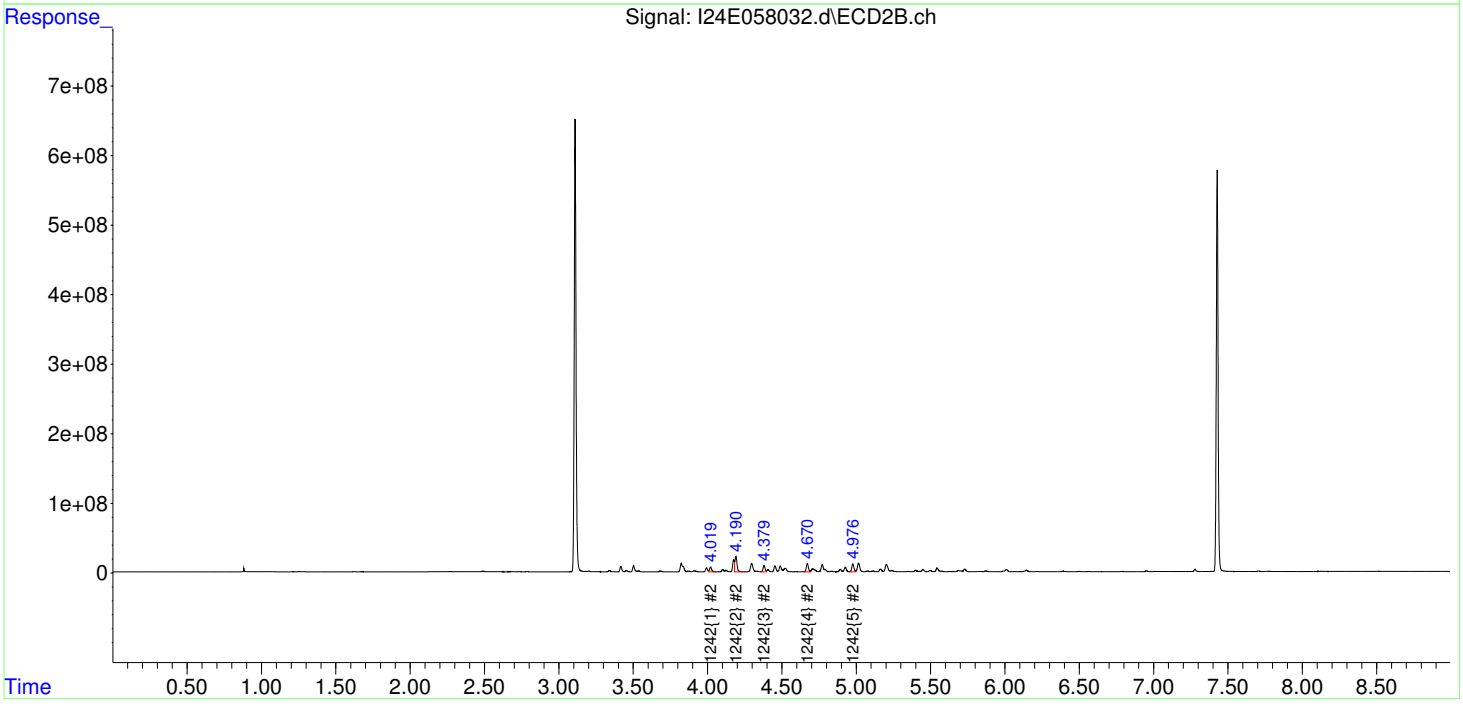
3388

Data Path : C:\msdchem\1\data\022724\
Data File : I24E058032.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2024 3:22 pm
Operator : PJG
Sample : 1242 100 Inst : ECD 9
Misc : mix[l4]
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 28 08:58:32 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-022724C.M
Quant Title : 60/16-013124, 54-013124, 48-022724, 42-022724, 32/68-013124, 21/62-013124 2400245/24
QLast Update : Wed Feb 28 08:58:32 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\022724\
Data File : I24E058033.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2024 3:34 pm
Operator : PJG
Sample : 1242 200 Inst : ECD 9
Misc : mix[l4]
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 28 08:58:33 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-022724C.M
Quant Title : 60/16-013124, 54-013124, 48-022724, 42-022724, 32/68-013124, 21/62-013124 2400245/246
QLast Update : Wed Feb 28 08:58:32 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
2) S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
3) L1	1016{1}	0.000	0.000	0	0	N.D. d	N.D. d
4) L1	1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1	1016{3}	0.000	0.000	0	0	N.D. d	N.D. d
6) L1	1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1	1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9) L7	1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7	1260{3}	0.000	0.000	0	0	N.D. d	N.D. d
11) L7	1260{4}	0.000	0.000	0	0	N.D. d	N.D. d
12) L7	1260{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	3.954	4.020	192.8E6	129.4E6	167.009	163.006
24) L4	1242{2}	4.168	4.191	587.7E6	425.5E6	167.833	182.721
25) L4	1242{3}	4.328	4.379	270.7E6	168.2E6	169.476	179.669
26) L4	1242{4}	4.608	4.671	326.5E6	224.5E6	166.054	169.613
27) L4	1242{5}	4.979	4.976	333.8E6	225.0E6	166.770	172.702
Sum	1242			1711.5E6	1172.5E6	837.142	867.711
Average	1242					167.428	173.542
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\022724\
Data File : I24E058033.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2024 3:34 pm
Operator : PJG
Sample : 1242 200 Inst : ECD 9
Misc : mix[l4]
ALS Vial : 33 Sample Multiplier: 1

3390

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 28 08:58:33 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-022724C.M
Quant Title : 60/16-013124, 54-013124, 48-022724, 42-022724, 32/68-013124, 21/62-013124 2400245/246
QLast Update : Wed Feb 28 08:58:32 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D.
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40)	L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D. d	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

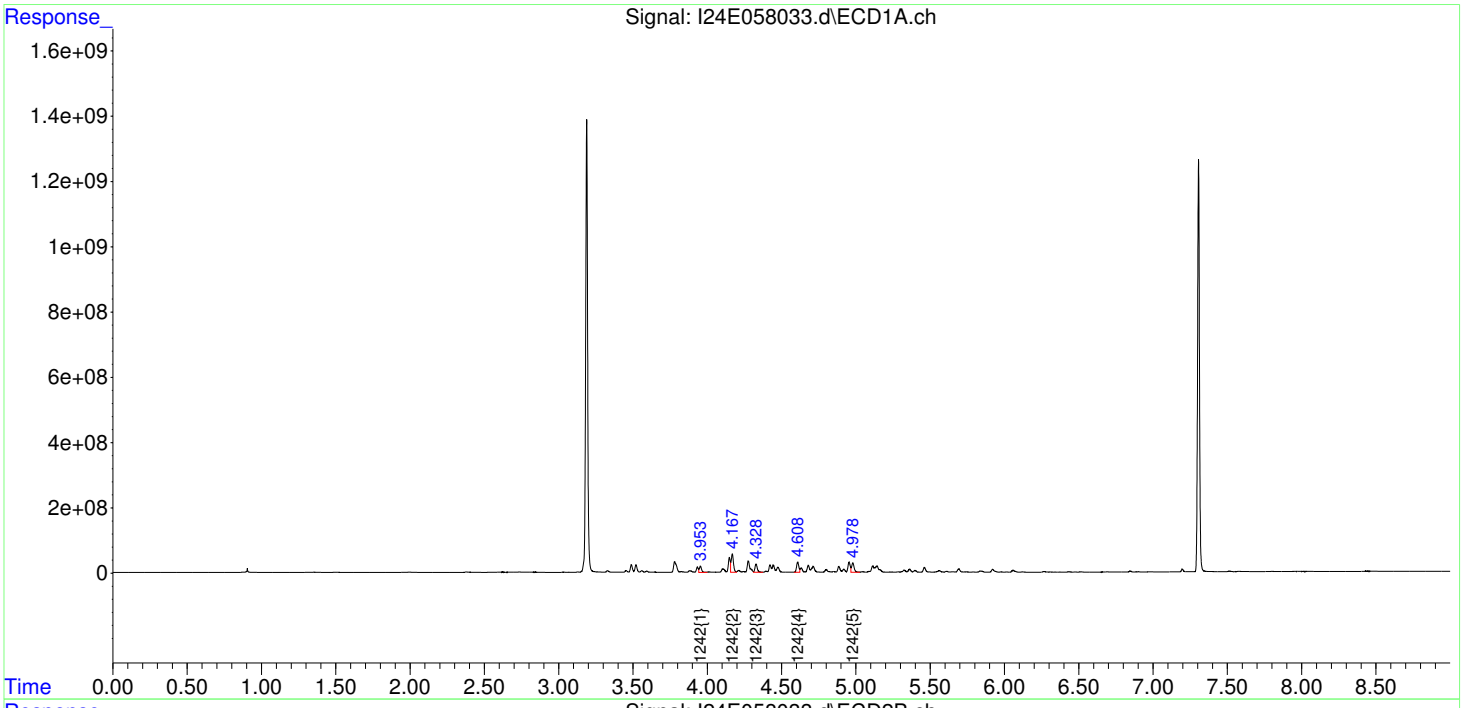
Quantitation Report (Not Reviewed)

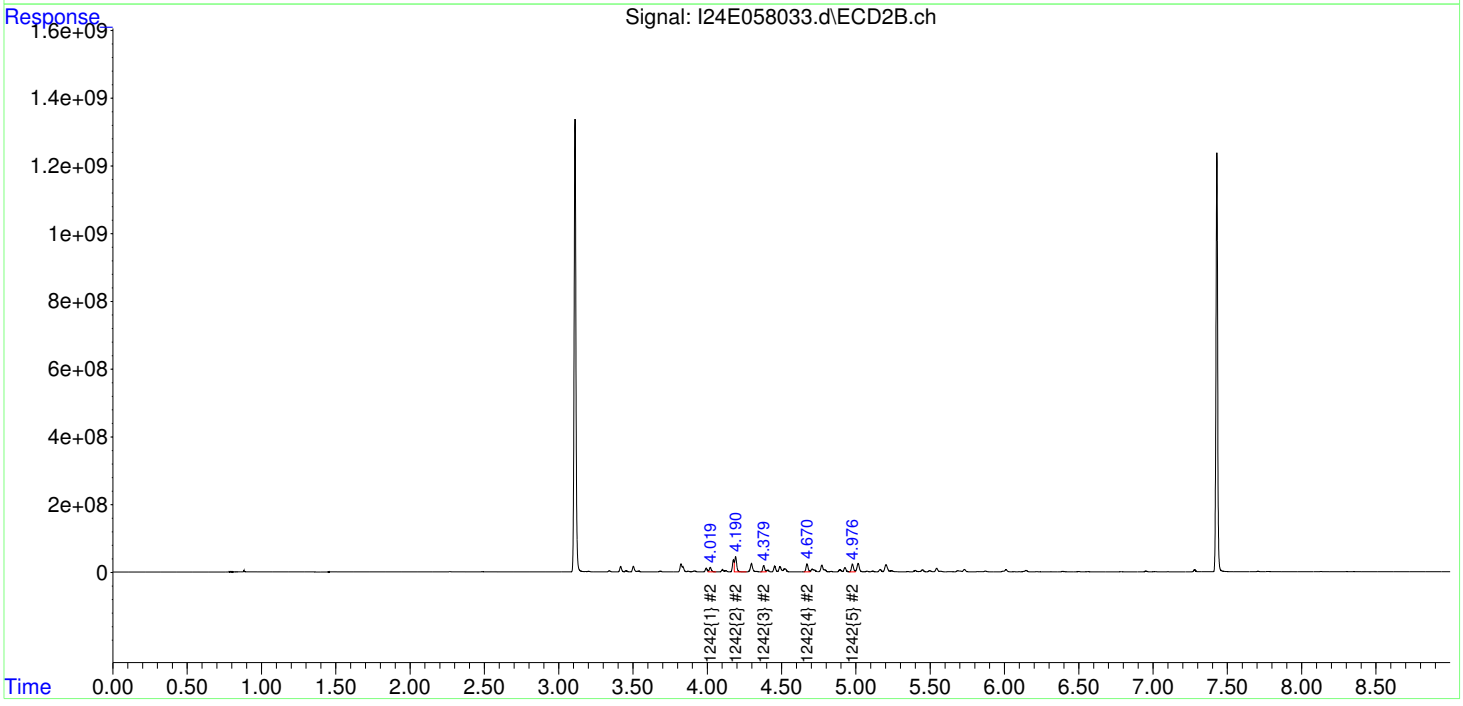
3391

Data Path : C:\msdchem\1\data\022724\
Data File : I24E058033.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2024 3:34 pm
Operator : PJG
Sample : 1242 200 Inst : ECD 9
Misc : mix[l4]
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 28 08:58:33 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-022724C.M
Quant Title : 60/16-013124, 54-013124, 48-022724, 42-022724, 32/68-013124, 21/62-013124 2400245/24
QLast Update : Wed Feb 28 08:58:32 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

3392

Data Path : C:\msdchem\1\data\022724\
Data File : I24E058034.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2024 3:45 pm
Operator : PJG
Sample : 1242 500 Inst : ECD 9
Misc : mix[l4]
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 28 08:58:34 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-022724C.M
Quant Title : 60/16-013124, 54-013124, 48-022724, 42-022724, 32/68-013124, 21/62-013124 2400245/246
QLast Update : Wed Feb 28 08:58:33 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
2) S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
3) L1	1016{1}	0.000	0.000	0	0	N.D. d	N.D. d
4) L1	1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1	1016{3}	0.000	0.000	0	0	N.D. d	N.D. d
6) L1	1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1	1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9) L7	1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7	1260{3}	0.000	0.000	0	0	N.D. d	N.D. d
11) L7	1260{4}	0.000	0.000	0	0	N.D. d	N.D. d
12) L7	1260{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	3.954	4.020	430.7E6	307.2E6	385.751	401.975
24) L4	1242{2}	4.168	4.191	1359.4E6	1052.3E6	401.126	459.834
25) L4	1242{3}	4.328	4.379	625.2E6	419.1E6	403.781	456.979
26) L4	1242{4}	4.608	4.671	750.1E6	547.7E6	394.879	426.826
27) L4	1242{5}	4.979	4.976	758.5E6	555.7E6	391.922	438.416
Sum	1242			3923.8E6	2881.9E6	1977.459	2184.030
Average	1242					395.492	436.806
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\022724\
Data File : I24E058034.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2024 3:45 pm
Operator : PJG
Sample : 1242 500 Inst : ECD 9
Misc : mix[l4]
ALS Vial : 34 Sample Multiplier: 1

3393

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 28 08:58:34 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-022724C.M
Quant Title : 60/16-013124, 54-013124, 48-022724, 42-022724, 32/68-013124, 21/62-013124 2400245/246
QLast Update : Wed Feb 28 08:58:33 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40)	L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D. d	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

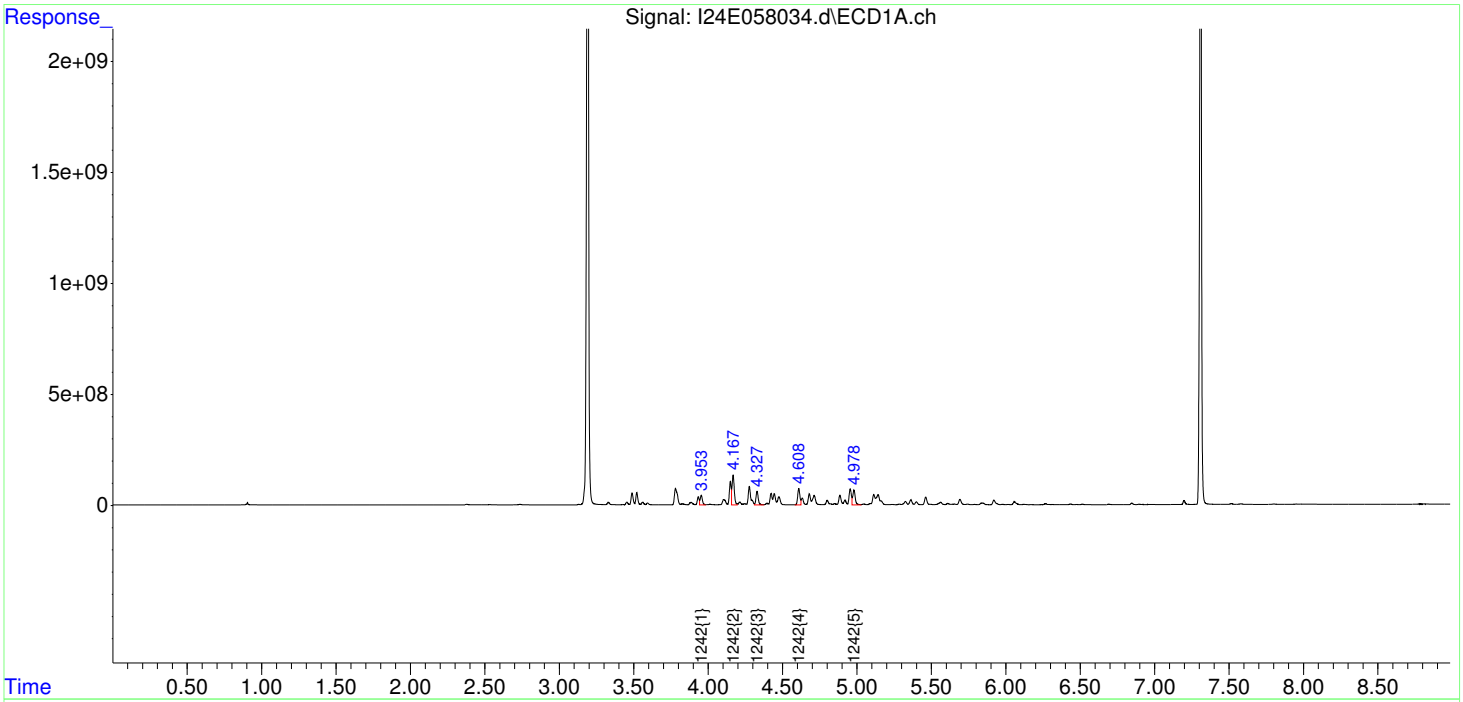
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

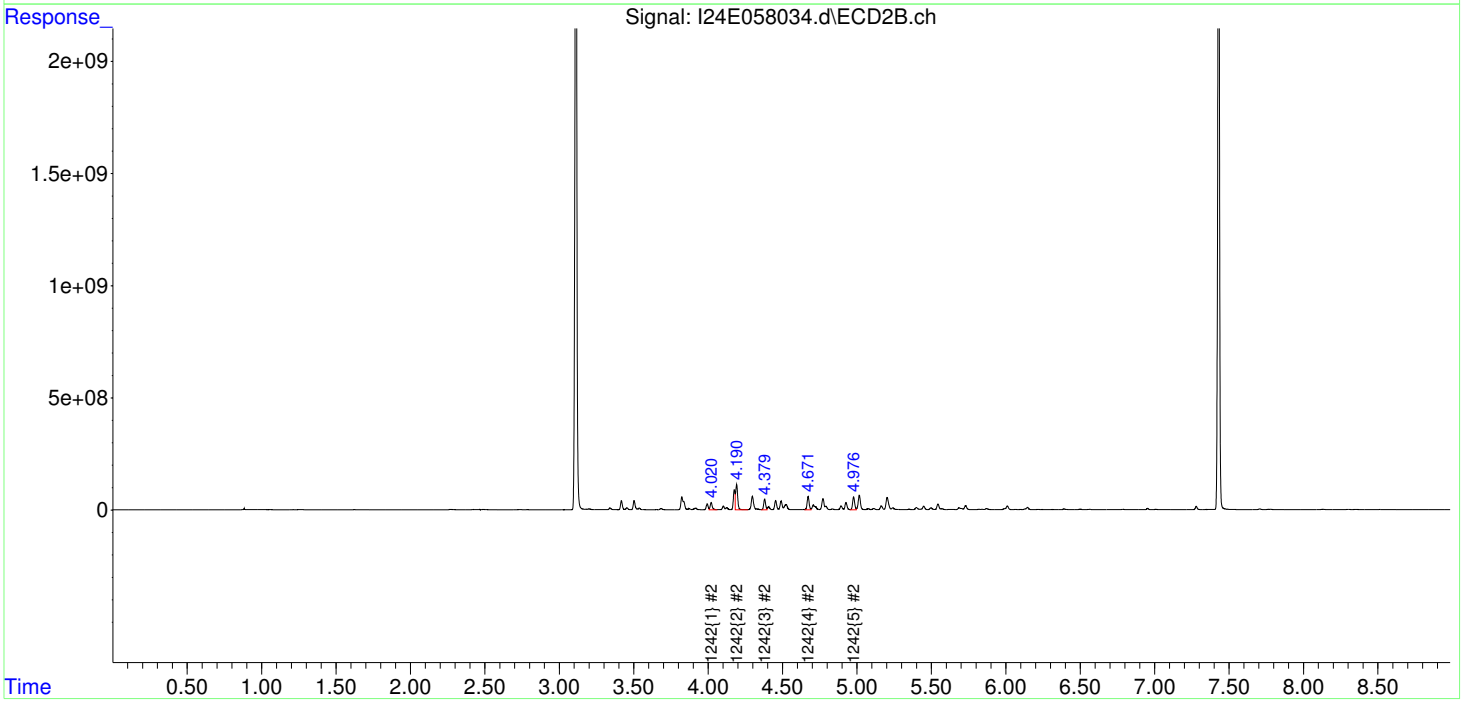
Data Path : C:\msdchem\1\data\022724\
Data File : I24E058034.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2024 3:45 pm
Operator : PJG
Sample : 1242 500 Inst : ECD 9
Misc : mix[l4]
ALS Vial : 34 Sample Multiplier: 1

3394

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 28 08:58:34 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-022724C.M
Quant Title : 60/16-013124, 54-013124, 48-022724, 42-022724, 32/68-013124, 21/62-013124 2400245/24
QLast Update : Wed Feb 28 08:58:33 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

3395

Data Path : C:\msdchem\1\data\022724\
Data File : I24E058036.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2024 4:09 pm
Operator : PJG
Sample : 1242 ICV Inst : ECD 9
Misc : mix[l4]
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 28 09:05:23 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-022724C.M
Quant Title : 60/16-013124, 54-013124, 48-022724, 42-022724, 32/68-013124, 21/62-013124 2400245/246
QLast Update : Wed Feb 28 08:58:34 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
2) S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
3) L1	1016{1}	0.000	0.000	0	0	N.D. d	N.D. d
4) L1	1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1	1016{3}	0.000	0.000	0	0	N.D. d	N.D. d
6) L1	1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1	1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9) L7	1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7	1260{3}	0.000	0.000	0	0	N.D. d	N.D. d
11) L7	1260{4}	0.000	0.000	0	0	N.D.	N.D. d
12) L7	1260{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	3.954	4.020	96300941	65439149	89.671	88.524
24) L4	1242{2}	4.168	4.191	292.7E6	205.0E6	89.311	90.803
25) L4	1242{3}	4.328	4.380	134.5E6	82102362	89.719	90.824
26) L4	1242{4}	4.608	4.671	157.8E6	108.2E6	86.092	86.467
27) L4	1242{5}	4.979	4.976	171.3E6	112.7E6	91.826	90.748
Sum	1242			852.6E6	573.4E6	446.619	447.367
Average	1242					89.324	89.473
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\022724\
Data File : I24E058036.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2024 4:09 pm
Operator : PJG
Sample : 1242 ICV Inst : ECD 9
Misc : mix[l4]
ALS Vial : 36 Sample Multiplier: 1

3396

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 28 09:05:23 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-022724C.M
Quant Title : 60/16-013124, 54-013124, 48-022724, 42-022724, 32/68-013124, 21/62-013124 2400245/246
QLast Update : Wed Feb 28 08:58:34 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D.	N.D.
36)	L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D.
	Sum 1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40)	L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D.	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D.	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

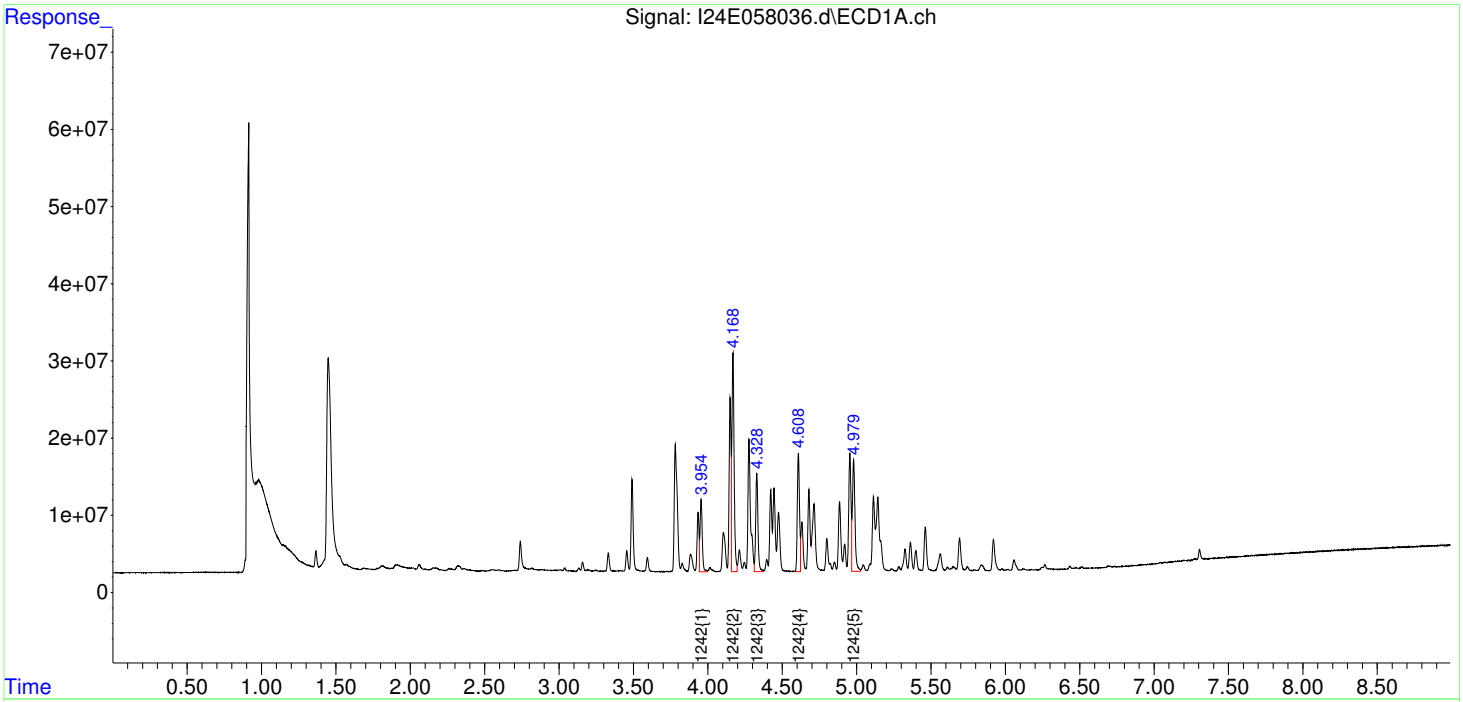
Quantitation Report (Not Reviewed)

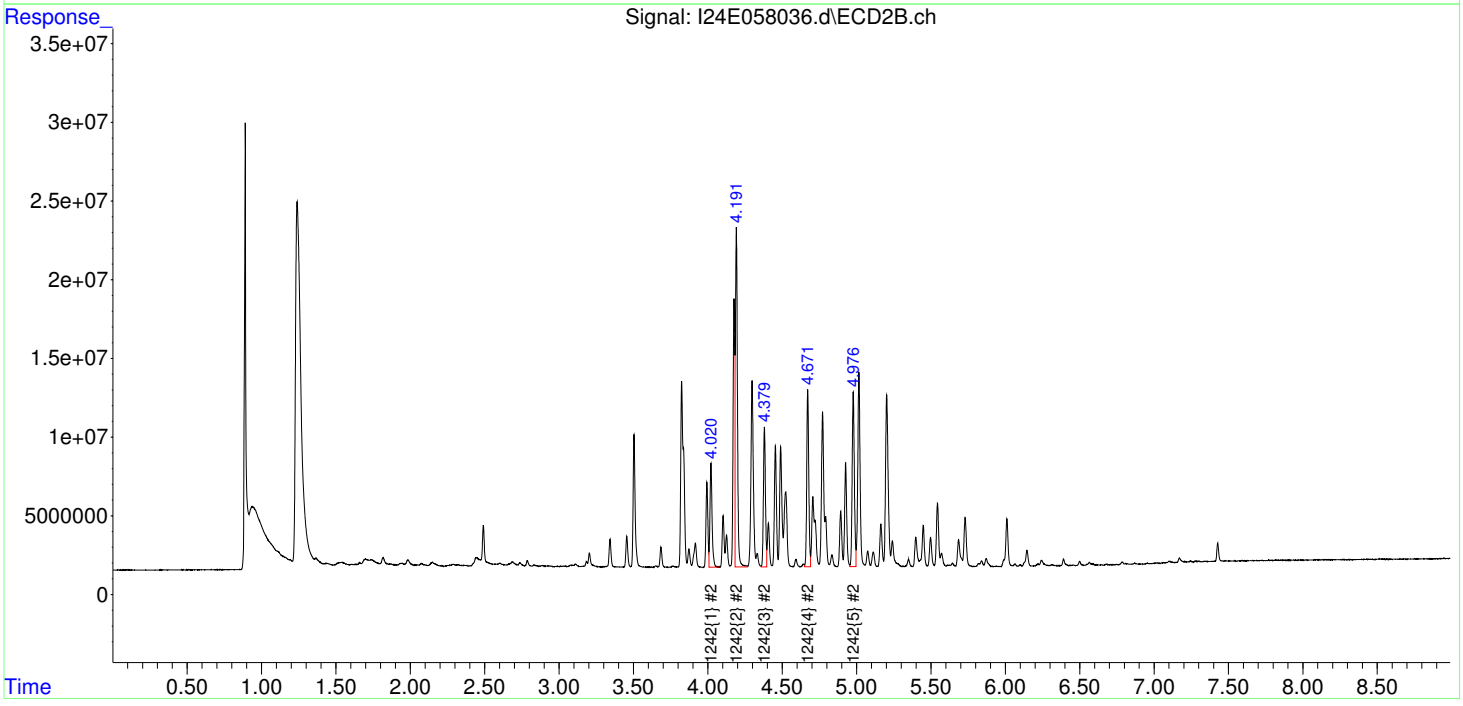
3397

Data Path : C:\msdchem\1\data\022724\
Data File : I24E058036.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2024 4:09 pm
Operator : PJG
Sample : 1242 ICV Inst : ECD 9
Misc : mix[l4]
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 28 09:05:23 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-022724C.M
Quant Title : 60/16-013124, 54-013124, 48-022724, 42-022724, 32/68-013124, 21/62-013124 2400245/24
QLast Update : Wed Feb 28 08:58:34 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





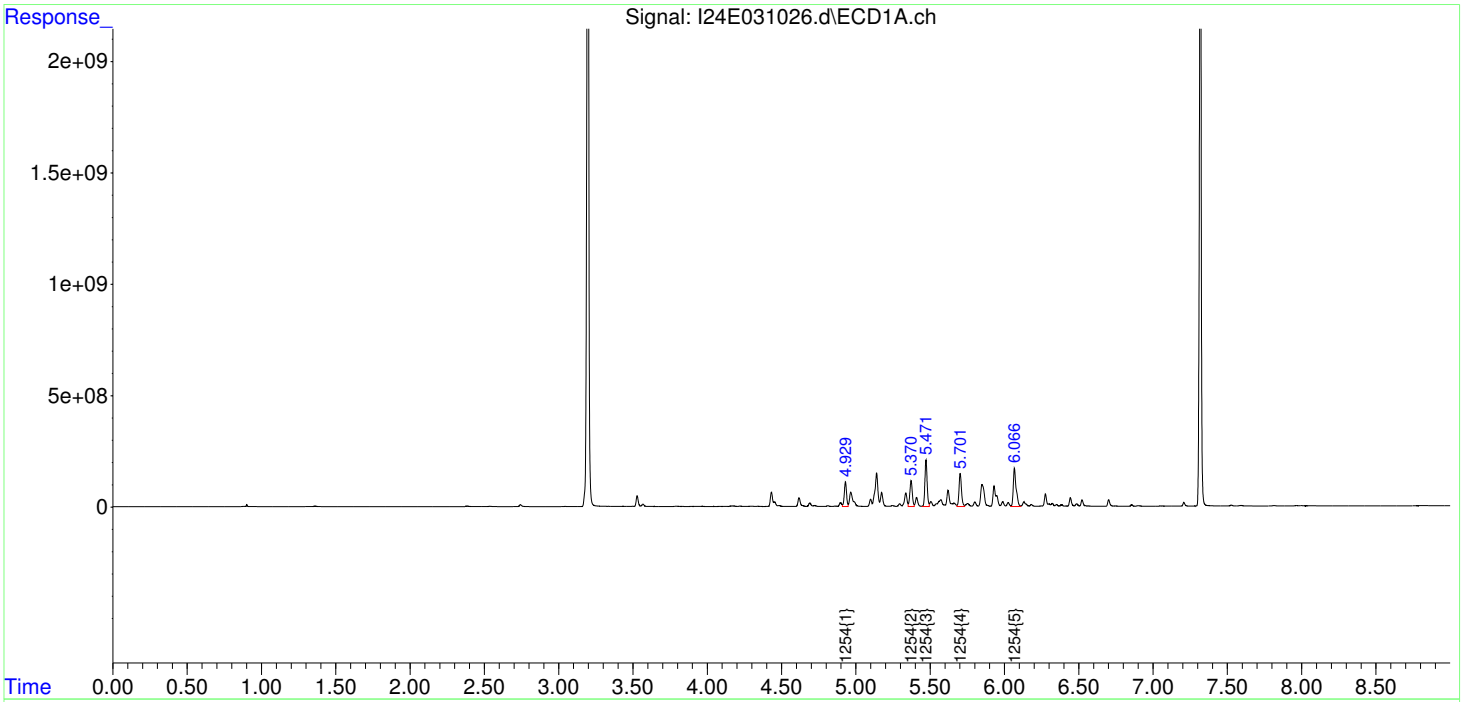
Quantitation Report (Not Reviewed)

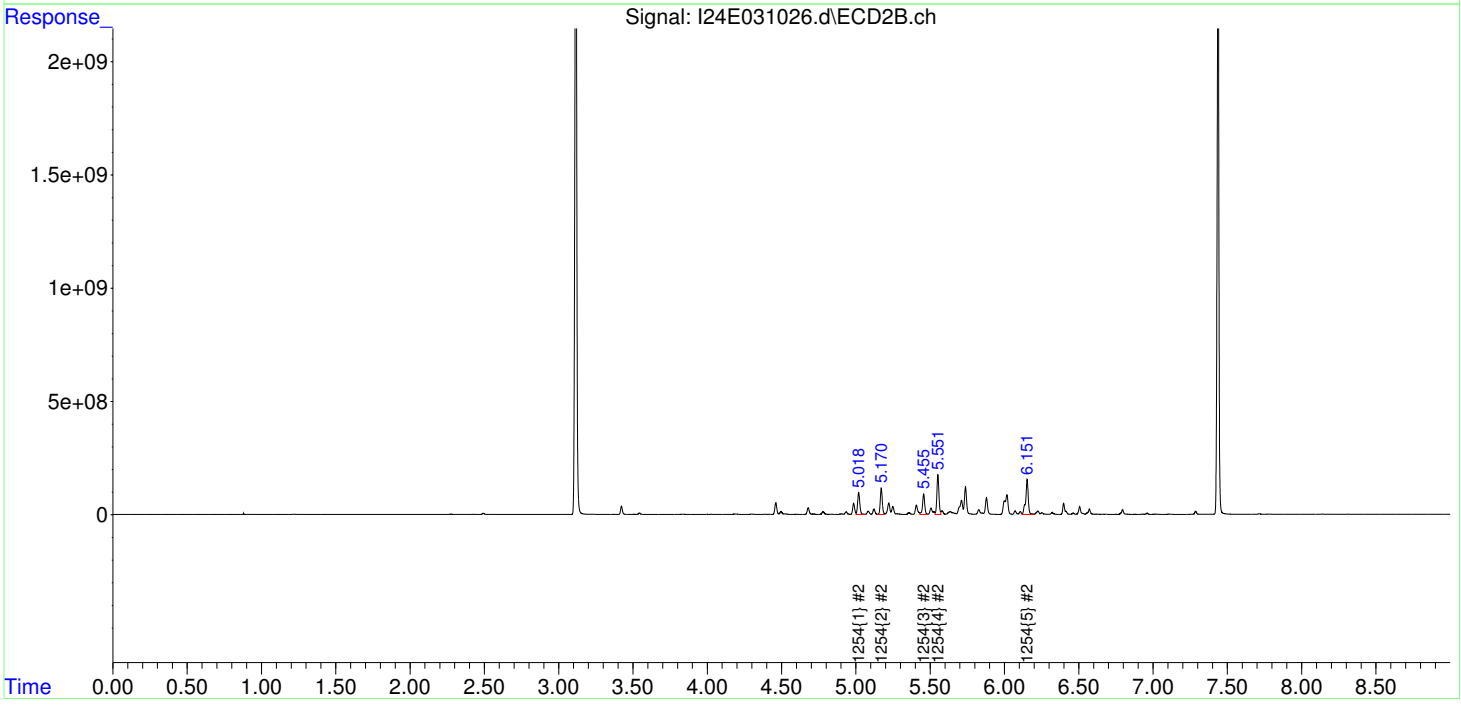
3398

Data Path : C:\msdchem\1\data\013124\
Data File : I24E031026.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Jan 2024 12:27 pm
Operator : PJG
Sample : 1254 500 Inst : ECD 9
Misc : mix[l6]
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 01 11:21:56 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\2023 Methods\9-PCB-013124C.M
Quant Title : 60/16-013124, 54-013124, 48-013124, 42-013124, 32/68-013124, 21/62-013124 2400136/13
QLast Update : Thu Feb 01 11:21:55 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (QT Reviewed)

3399

Data Path : C:\msdchem\1\data\013124\
Data File : I24E031048.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Jan 2024 4:47 pm
Operator : PJG
Sample : 1232/1268 10 Inst : ECD 9
Misc : mix[l3,l9]
ALS Vial : 48 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 01 11:26:44 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\2023 Methods\9-PCB-013124C.M
Quant Title : 60/16-013124, 54-013124, 48-013124, 42-013124, 32/68-013124, 21/62-013124 2400136/137
QLast Update : Thu Feb 01 11:26:03 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
2) S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
3) L1	1016{1}	0.000	0.000	0	0	N.D. d	N.D. d
4) L1	1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1	1016{3}	0.000	0.000	0	0	N.D. d	N.D. d
6) L1	1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1	1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	0.000	0.000	0	0	N.D.	N.D. d
9) L7	1260{2}	0.000	0.000	0	0	N.D. d	N.D.
10) L7	1260{3}	0.000	0.000	0	0	N.D. d	N.D. d
11) L7	1260{4}	0.000	0.000	0	0	N.D. d	N.D. d
12) L7	1260{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	3.963	4.026	7536247	5631716	NoCal	NoCal
29) L3	1232{2}	4.287	4.387	17011990	6360311	NoCal	NoCal
30) L3	1232{3}	4.618	4.678	11970073	8362823	NoCal	NoCal
31) L3	1232{4}	4.690	4.985	7590413	8672444	NoCal	NoCal

Data Path : C:\msdchem\1\data\013124\
Data File : I24E031048.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Jan 2024 4:47 pm
Operator : PJG
Sample : 1232/1268 10 Inst : ECD 9
Misc : mix[l3,l9]
ALS Vial : 48 Sample Multiplier: 1

3400

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 01 11:26:44 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\2023 Methods\9-PCB-013124C.M
Quant Title : 60/16-013124, 54-013124, 48-013124, 42-013124, 32/68-013124, 21/62-013124 2400136/137
QLast Update : Thu Feb 01 11:26:03 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	4.968	5.024	10556223	10490147	NoCal	NoCal
	Sum 1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	6.716	6.786	118.3E6	85765465	NoCal	NoCal
34)	L9 1268{2}	6.740	6.814	125.1E6	84713002	NoCal	NoCal
35)	L9 1268{3}	6.854	6.958	110.0E6	78180306	NoCal	NoCal
36)	L9 1268{4}	7.050	7.107	31909619	25944049	NoCal m	NoCal
37)	L9 1268{5}	7.206	7.285	268.5E6	200.4E6	NoCal m	NoCal
	Sum 1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40)	L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D.	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D.
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

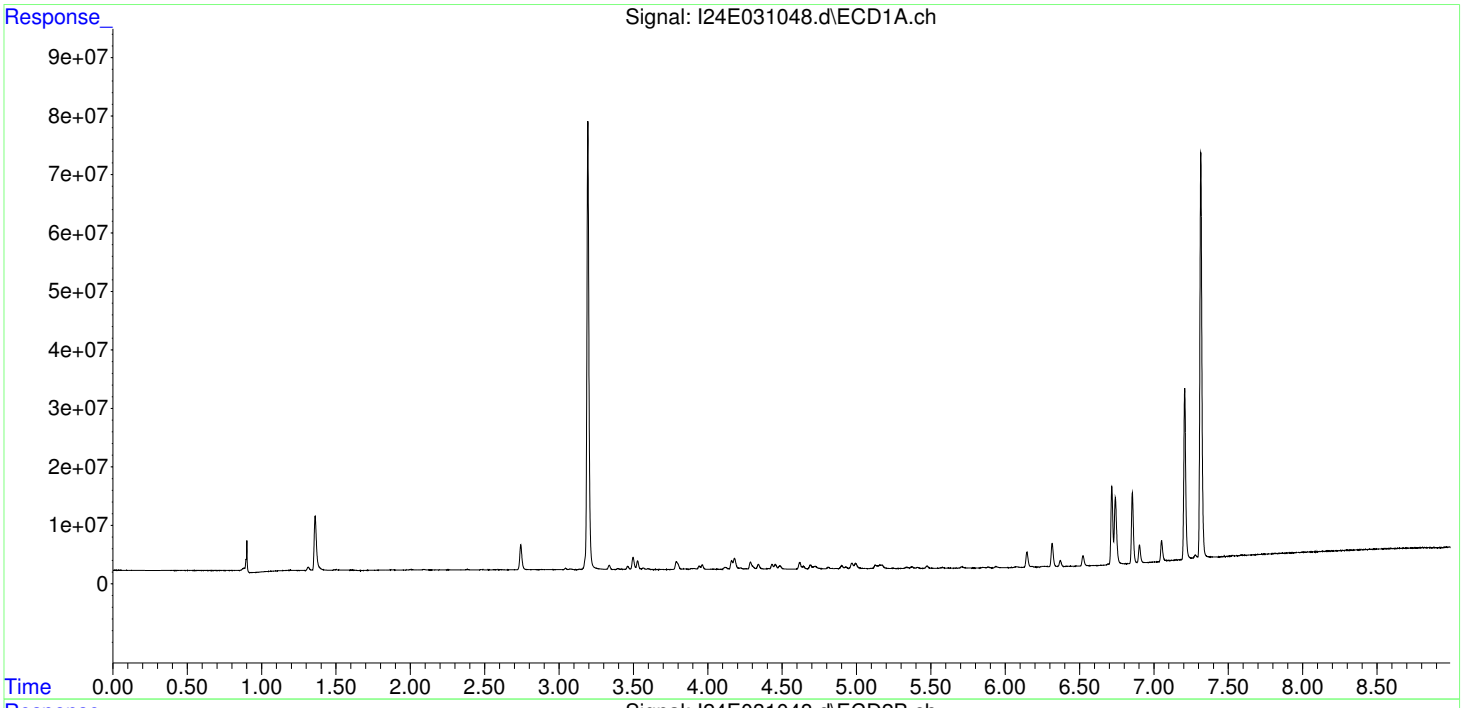
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

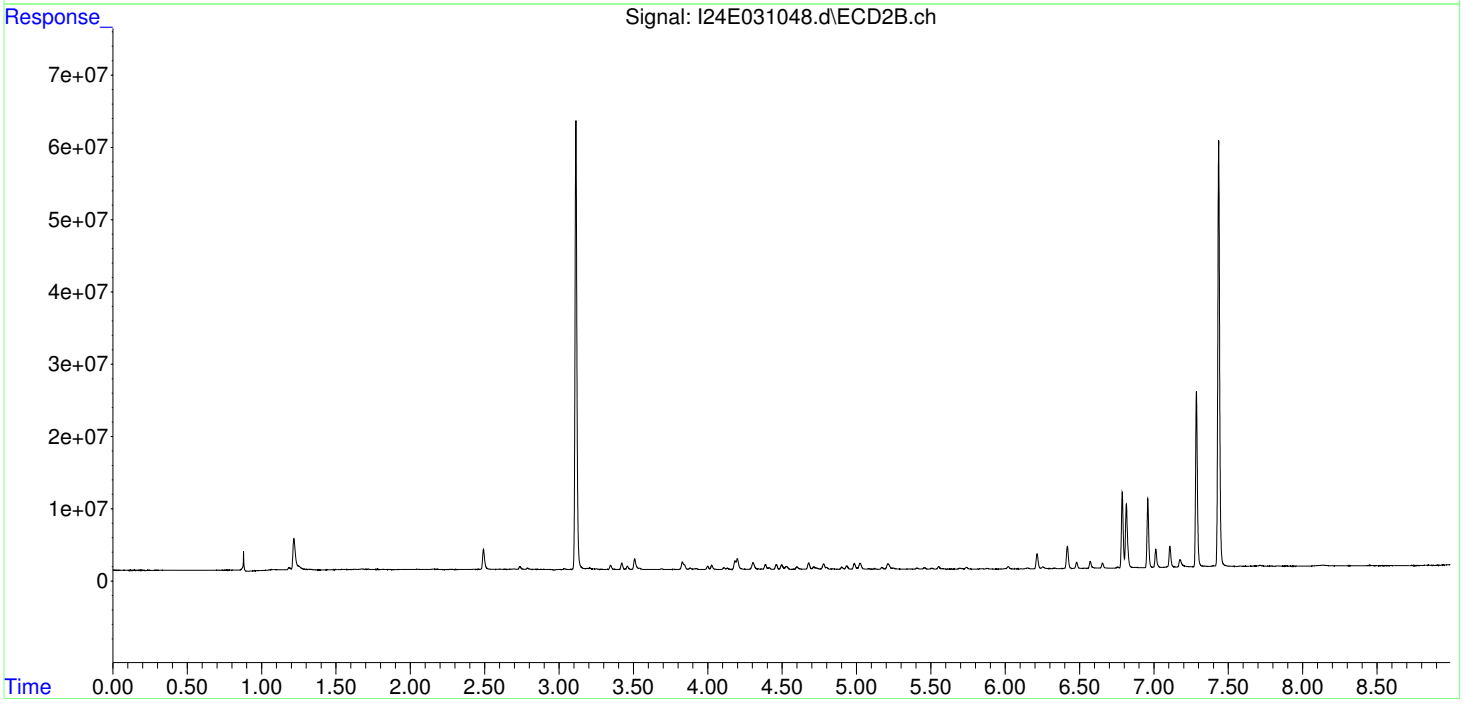
3401

Data Path : C:\msdchem\1\data\013124\
Data File : I24E031048.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Jan 2024 4:47 pm
Operator : PJG
Sample : 1232/1268 10 Inst : ECD 9
Misc : mix[l3,l9]
ALS Vial : 48 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 01 11:26:44 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\2023 Methods\9-PCB-013124C.M
Quant Title : 60/16-013124, 54-013124, 48-013124, 42-013124, 32/68-013124, 21/62-013124 2400136/13
QLast Update : Thu Feb 01 11:26:03 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

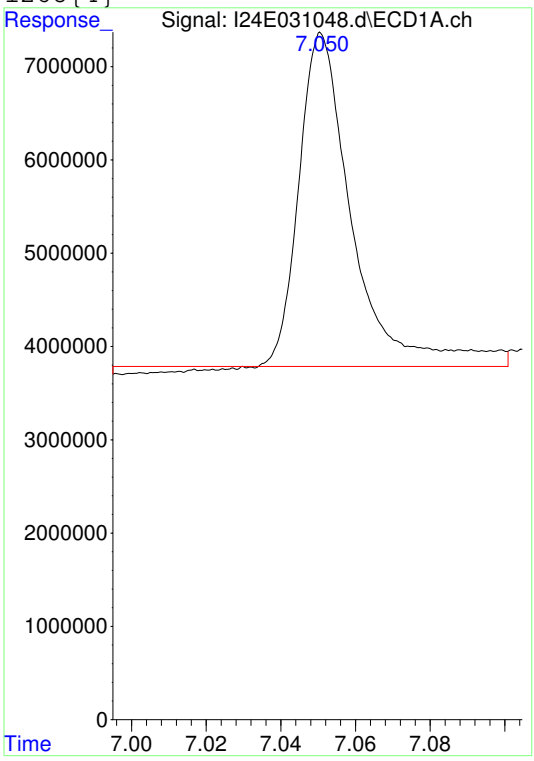




Data Path : C:\msdchem\1\data\013124\
Data File : I24E031048.d
Acq On : 31 Jan 2024 4:47 pm
Operator : PJG
Sample : 1232/1268 10
Misc : mix[13,19]

Quant Time : Thu Feb 01 11:26:44 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\2023 Methods\9-PCB-013124C.M
QLast Update : Thu Feb 01 11:26:03 2024

Original Integration
1268{4}



Original Int. Results

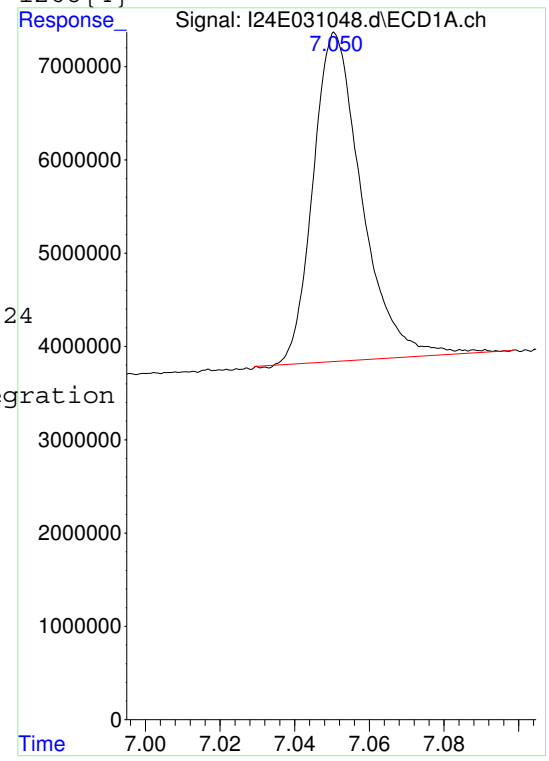
RT : 7.05
Area : 4.09721e+007
Amount: 0

Manual Int. Results

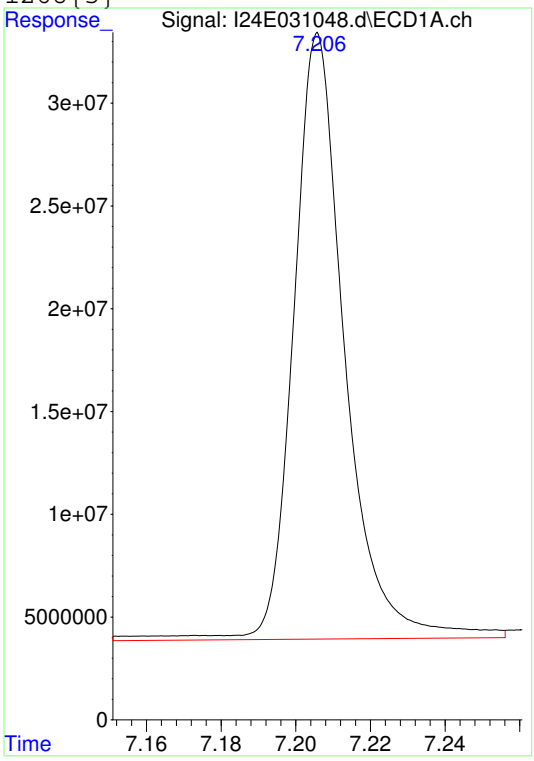
Thu Feb 01 11:26:39 2024

MIuser: SFM
Reason: Incorrect Integration
RT : 7.05
Area : 3.19096e+007
Amount: 0

Manual Integration
1268{4}



Original Integration
1268{5}



Original Int. Results

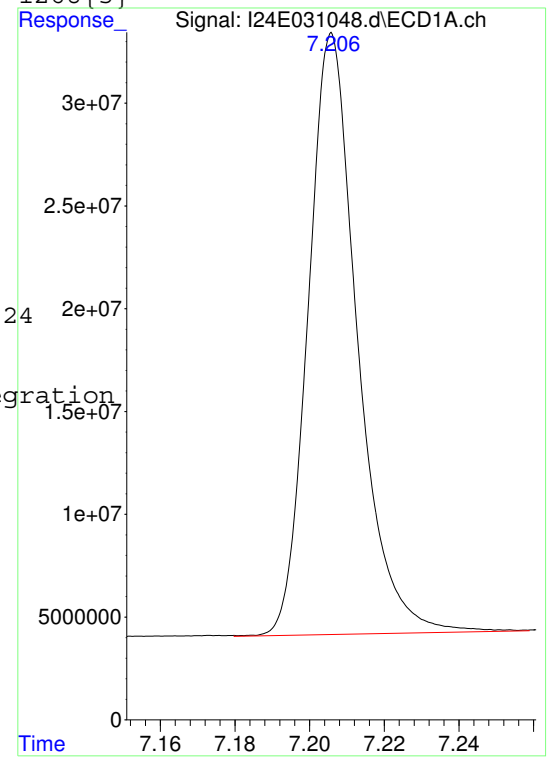
RT : 7.21
Area : 2.88794e+008
Amount: 0

Manual Int. Results

Thu Feb 01 11:26:44 2024

MIuser: SFM
Reason: Incorrect Integration
RT : 7.21
Area : 2.68486e+008
Amount: 0

Manual Integration
1268{5}



Quantitation Report (Not Reviewed)

3403

Data Path : C:\msdchem\1\data\013124\
Data File : I24E031049.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Jan 2024 4:59 pm
Operator : PJG
Sample : 1232/1268 20 Inst : ECD 9
Misc : mix[l3,l9]
ALS Vial : 49 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 01 11:26:05 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\2023 Methods\9-PCB-013124C.M
Quant Title : 60/16-013124, 54-013124, 48-013124, 42-013124, 32/68-013124, 21/62-013124 2400136/137
QLast Update : Thu Feb 01 11:26:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
2) S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
3) L1	1016{1}	0.000	0.000	0	0	N.D. d	N.D. d
4) L1	1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1	1016{3}	0.000	0.000	0	0	N.D. d	N.D. d
6) L1	1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1	1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9) L7	1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7	1260{3}	0.000	0.000	0	0	N.D. d	N.D. d
11) L7	1260{4}	0.000	0.000	0	0	N.D. d	N.D. d
12) L7	1260{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	3.962	4.026	14890302	11325647	19.758	20.110
29) L3	1232{2}	4.286	4.386	32446763	12148162	19.073	19.100
30) L3	1232{3}	4.617	4.678	22665376	16368233	18.935	19.573
31) L3	1232{4}	4.689	4.984	15162232	16671120	19.976	19.223

Data Path : C:\msdchem\1\data\013124\
Data File : I24E031049.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Jan 2024 4:59 pm
Operator : PJG
Sample : 1232/1268 20 Inst : ECD 9
Misc : mix[l3,l9]
ALS Vial : 49 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 01 11:26:05 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\2023 Methods\9-PCB-013124C.M
Quant Title : 60/16-013124, 54-013124, 48-013124, 42-013124, 32/68-013124, 21/62-013124 2400136/137
QLast Update : Thu Feb 01 11:26:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	4.967	5.023	21863589	20055338	20.712	19.118
	Sum 1232			107.0E6	76568500	98.453	97.124
Average	1232					19.691	19.425
33)	L9 1268{1}	6.715	6.786	229.5E6	168.5E6	19.393	19.645
34)	L9 1268{2}	6.740	6.813	236.7E6	167.0E6	18.925	19.710
35)	L9 1268{3}	6.854	6.957	209.6E6	153.3E6	19.053	19.604
36)	L9 1268{4}	7.050	7.106	70131589	49559607	17.117	19.102
37)	L9 1268{5}	7.205	7.284	546.0E6	408.0E6	18.906	20.360
	Sum 1268			1291.9E6	946.3E6	93.393	98.422
Average	1268					18.679	19.684
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40)	L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D.	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

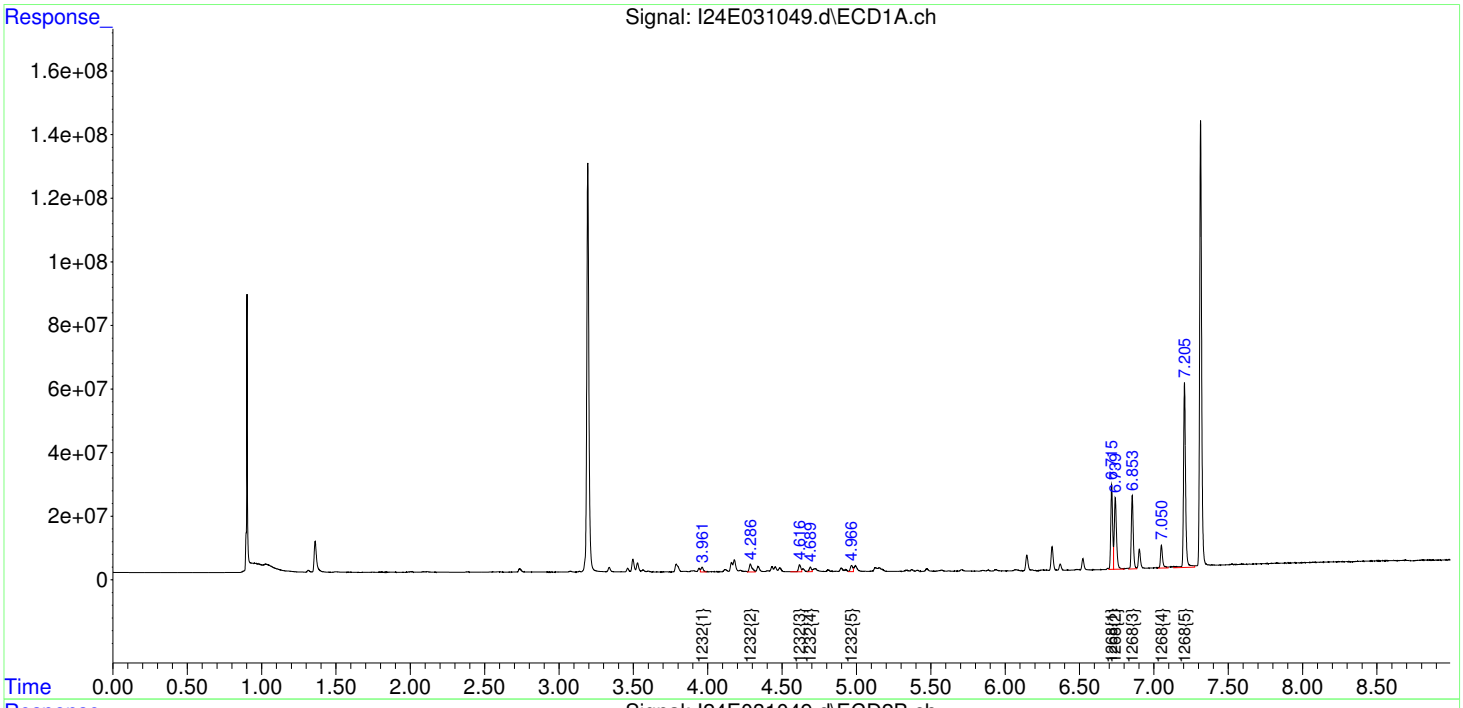
Quantitation Report (Not Reviewed)

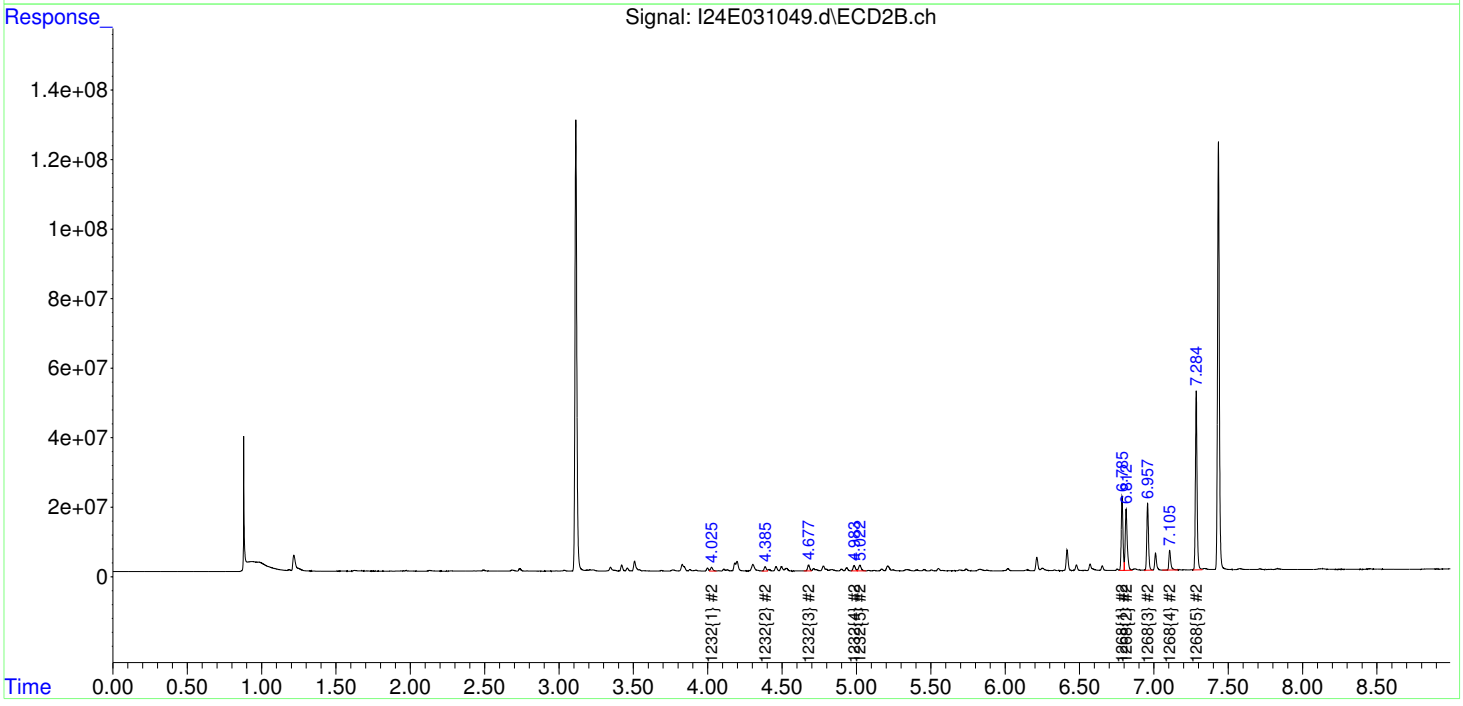
3405

Data Path : C:\msdchem\1\data\013124\
Data File : I24E031049.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Jan 2024 4:59 pm
Operator : PJG
Sample : 1232/1268 20 Inst : ECD 9
Misc : mix[l3,l9]
ALS Vial : 49 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 01 11:26:05 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\2023 Methods\9-PCB-013124C.M
Quant Title : 60/16-013124, 54-013124, 48-013124, 42-013124, 32/68-013124, 21/62-013124 2400136/13
QLast Update : Thu Feb 01 11:26:04 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

3406

Data Path : C:\msdchem\1\data\013124\
Data File : I24E031050.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Jan 2024 5:11 pm
Operator : PJG
Sample : 1232/1268 50 Inst : ECD 9
Misc : mix[l3,l9]
ALS Vial : 50 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 01 11:26:05 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\2023 Methods\9-PCB-013124C.M
Quant Title : 60/16-013124, 54-013124, 48-013124, 42-013124, 32/68-013124, 21/62-013124 2400136/137
QLast Update : Thu Feb 01 11:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
2) S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
3) L1	1016{1}	0.000	0.000	0	0	N.D. d	N.D. d
4) L1	1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1	1016{3}	0.000	0.000	0	0	N.D. d	N.D. d
6) L1	1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1	1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9) L7	1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7	1260{3}	0.000	0.000	0	0	N.D. d	N.D. d
11) L7	1260{4}	0.000	0.000	0	0	N.D. d	N.D. d
12) L7	1260{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	3.962	4.026	35834985	24525274	47.839	43.429
29) L3	1232{2}	4.286	4.387	74239362	27782857	44.675	44.687
30) L3	1232{3}	4.618	4.678	52461655	36938032	45.026	44.646
31) L3	1232{4}	4.689	4.985	35416152	37269325	46.688	43.826

Data Path : C:\msdchem\1\data\013124\
Data File : I24E031050.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Jan 2024 5:11 pm
Operator : PJG
Sample : 1232/1268 50 Inst : ECD 9
Misc : mix[l3,l9]
ALS Vial : 50 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 01 11:26:05 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\2023 Methods\9-PCB-013124C.M
Quant Title : 60/16-013124, 54-013124, 48-013124, 42-013124, 32/68-013124, 21/62-013124 2400136/137
QLast Update : Thu Feb 01 11:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	4.966	5.023	51687974	44968613	48.109	43.834
	Sum 1232			249.6E6	171.5E6	232.337	220.421
Average	1232					46.467	44.084
33)	L9 1268{1}	6.716	6.786	521.1E6	399.6E6	44.711	47.011
34)	L9 1268{2}	6.740	6.814	534.9E6	391.1E6	43.953	46.503
35)	L9 1268{3}	6.854	6.957	479.5E6	359.7E6	44.643	46.466
36)	L9 1268{4}	7.050	7.106	153.8E6	103.3E6	40.452	40.741
37)	L9 1268{5}	7.205	7.285	1207.9E6	980.4E6	43.003	48.487
	Sum 1268			2897.2E6	2234.1E6	216.762	229.209
Average	1268					43.352	45.842
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40)	L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D. d	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

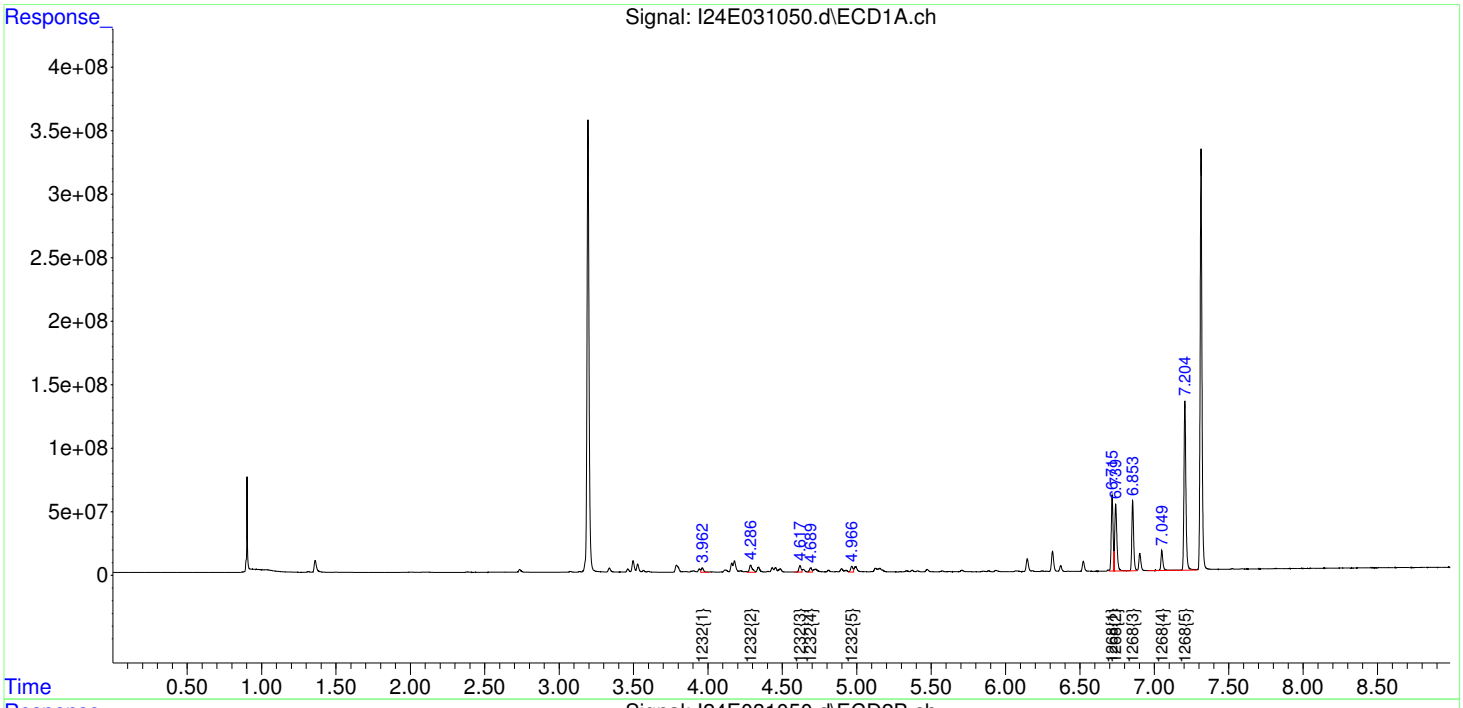
Quantitation Report (Not Reviewed)

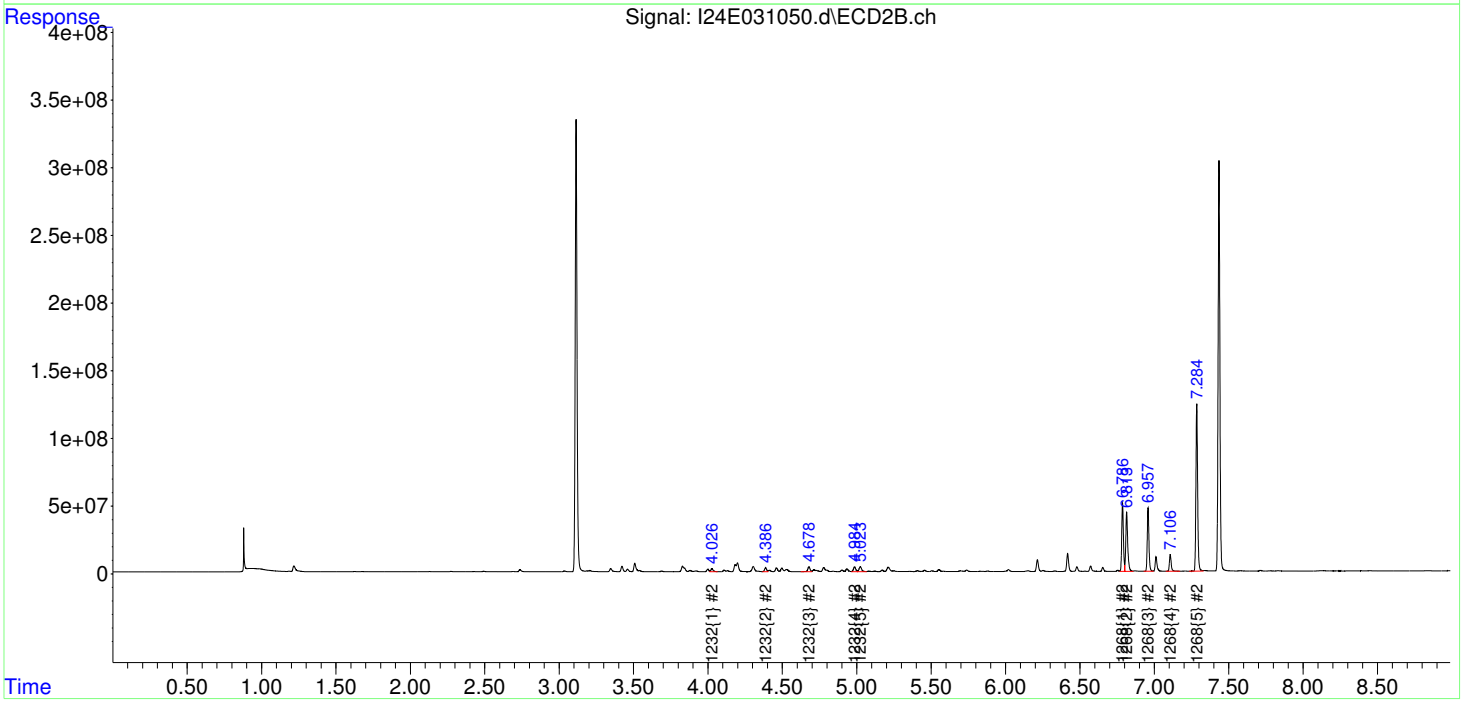
3408

Data Path : C:\msdchem\1\data\013124\
Data File : I24E031050.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Jan 2024 5:11 pm
Operator : PJG
Sample : 1232/1268 50 Inst : ECD 9
Misc : mix[l3,l9]
ALS Vial : 50 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 01 11:26:05 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\2023 Methods\9-PCB-013124C.M
Quant Title : 60/16-013124, 54-013124, 48-013124, 42-013124, 32/68-013124, 21/62-013124 2400136/13
QLast Update : Thu Feb 01 11:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

3409

Data Path : C:\msdchem\1\data\013124\
Data File : I24E031051.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Jan 2024 5:22 pm
Operator : PJG
Sample : 1232/1268 100 Inst : ECD 9
Misc : mix[l3,l9]
ALS Vial : 51 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 01 11:26:06 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\2023 Methods\9-PCB-013124C.M
Quant Title : 60/16-013124, 54-013124, 48-013124, 42-013124, 32/68-013124, 21/62-013124 2400136/137
QLast Update : Thu Feb 01 11:26:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
2) S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
3) L1	1016{1}	0.000	0.000	0	0	N.D. d	N.D. d
4) L1	1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1	1016{3}	0.000	0.000	0	0	N.D. d	N.D. d
6) L1	1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1	1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9) L7	1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7	1260{3}	0.000	0.000	0	0	N.D. d	N.D. d
11) L7	1260{4}	0.000	0.000	0	0	N.D. d	N.D. d
12) L7	1260{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	3.962	4.026	66427536	44859036	89.976	83.074
29) L3	1232{2}	4.285	4.386	139.2E6	53023767	86.871	88.417
30) L3	1232{3}	4.618	4.678	98770519	68112073	87.679	85.373
31) L3	1232{4}	4.689	4.984	67060520	69764921	90.399	85.560

Data Path : C:\msdchem\1\data\013124\
Data File : I24E031051.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Jan 2024 5:22 pm
Operator : PJG
Sample : 1232/1268 100 Inst : ECD 9
Misc : mix[l3,l9]
ALS Vial : 51 Sample Multiplier: 1

3410

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 01 11:26:06 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\2023 Methods\9-PCB-013124C.M
Quant Title : 60/16-013124, 54-013124, 48-013124, 42-013124, 32/68-013124, 21/62-013124 2400136/137
QLast Update : Thu Feb 01 11:26:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	4.965	5.022	99544106	83734395	93.834	85.120
Sum	1232			471.0E6	319.5E6	448.759	427.545
Average	1232					89.752	85.509
33)	L9 1268{1}	6.716	6.786	1008.1E6	802.8E6	89.653	96.366
34)	L9 1268{2}	6.740	6.813	1024.7E6	781.9E6	87.745	95.194
35)	L9 1268{3}	6.854	6.957	928.4E6	728.0E6	89.648	96.322
36)	L9 1268{4}	7.050	7.106	276.6E6	196.4E6	77.710	82.550
37)	L9 1268{5}	7.205	7.284	2325.5E6	2012.4E6	86.839	100.535
Sum	1268			5563.4E6	4521.6E6	431.595	470.968
Average	1268					86.319	94.194
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40)	L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D. d	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

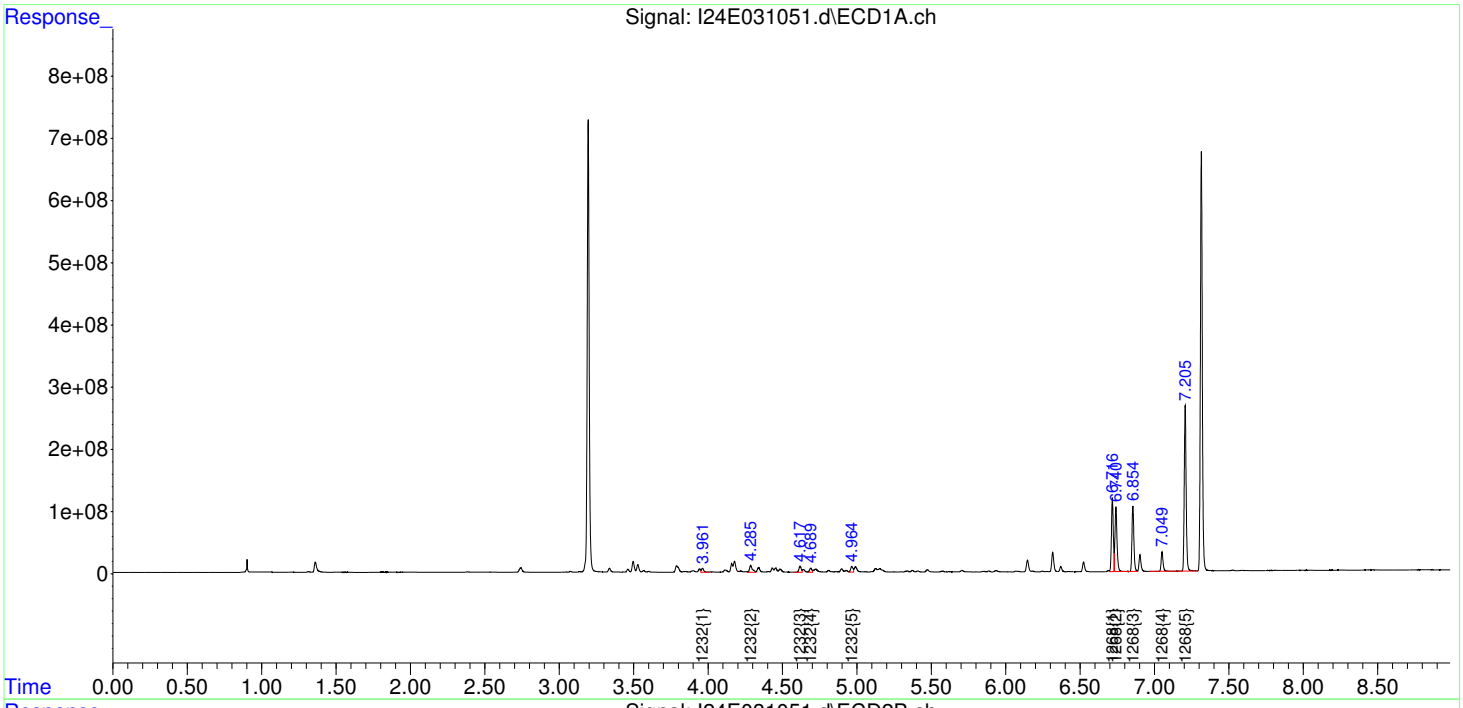
Quantitation Report (Not Reviewed)

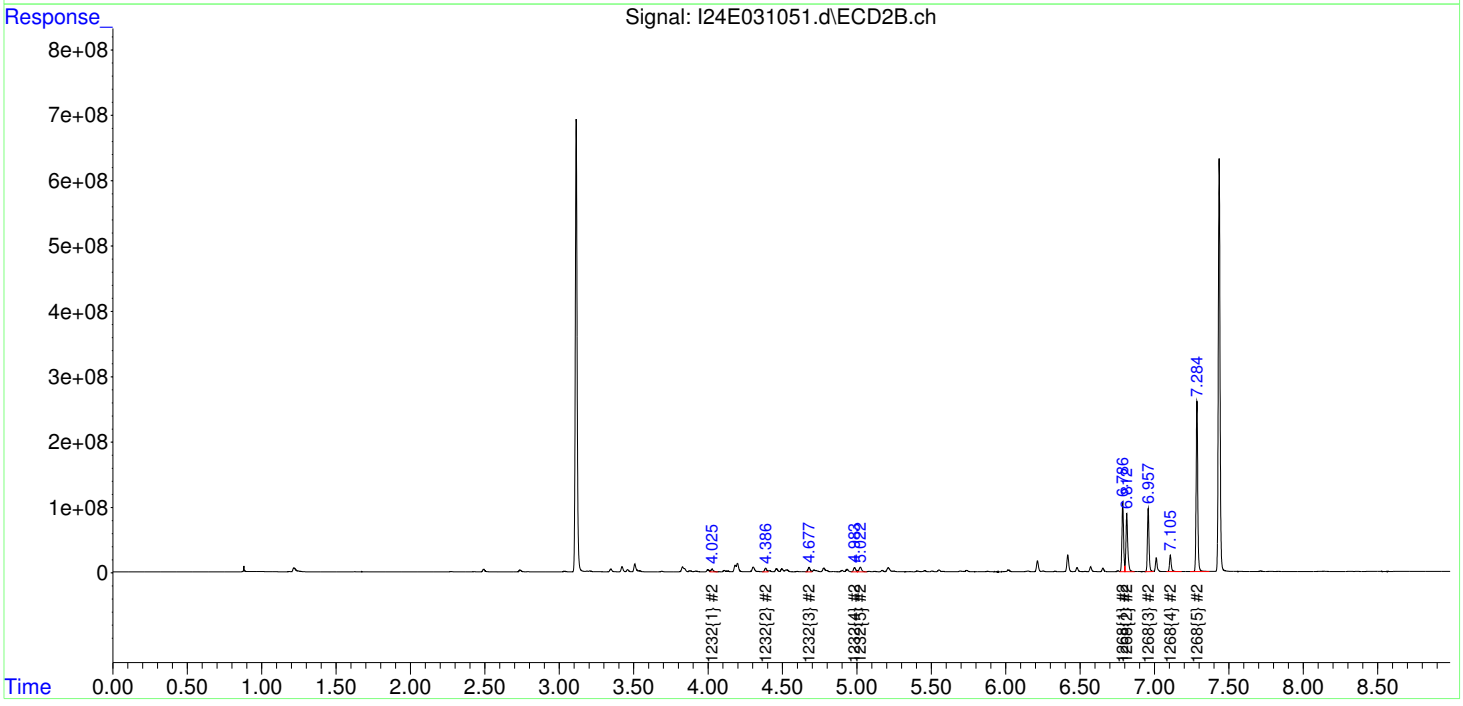
3411

Data Path : C:\msdchem\1\data\013124\
Data File : I24E031051.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Jan 2024 5:22 pm
Operator : PJG
Sample : 1232/1268 100 Inst : ECD 9
Misc : mix[l3,l9]
ALS Vial : 51 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 01 11:26:06 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\2023 Methods\9-PCB-013124C.M
Quant Title : 60/16-013124, 54-013124, 48-013124, 42-013124, 32/68-013124, 21/62-013124 2400136/13
QLast Update : Thu Feb 01 11:26:06 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

3412

Data Path : C:\msdchem\1\data\013124\
Data File : I24E031052.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Jan 2024 5:34 pm
Operator : PJG
Sample : 1232/1268 200 Inst : ECD 9
Misc : mix[l3,l9]
ALS Vial : 52 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 01 11:26:07 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\2023 Methods\9-PCB-013124C.M
Quant Title : 60/16-013124, 54-013124, 48-013124, 42-013124, 32/68-013124, 21/62-013124 2400136/137
QLast Update : Thu Feb 01 11:26:07 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1)	S Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
2)	S Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
3)	L1 1016{1}	0.000	0.000	0	0	N.D. d	N.D. d
4)	L1 1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5)	L1 1016{3}	0.000	0.000	0	0	N.D. d	N.D. d
6)	L1 1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7)	L1 1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8)	L7 1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9)	L7 1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10)	L7 1260{3}	0.000	0.000	0	0	N.D. d	N.D. d
11)	L7 1260{4}	0.000	0.000	0	0	N.D. d	N.D. d
12)	L7 1260{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13)	L6 1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14)	L6 1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15)	L6 1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16)	L6 1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17)	L6 1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18)	L5 1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19)	L5 1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20)	L5 1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21)	L5 1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22)	L5 1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23)	L4 1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24)	L4 1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25)	L4 1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26)	L4 1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27)	L4 1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28)	L3 1232{1}	3.962	4.026	118.6E6	80156858	164.785	155.001
29)	L3 1232{2}	4.285	4.386	252.9E6	98441993	163.121	169.047
30)	L3 1232{3}	4.617	4.678	180.0E6	124.2E6	164.858	161.619
31)	L3 1232{4}	4.689	4.984	123.4E6	129.2E6	170.467	164.368

Data Path : C:\msdchem\1\data\013124\
Data File : I24E031052.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Jan 2024 5:34 pm
Operator : PJG
Sample : 1232/1268 200 Inst : ECD 9
Misc : mix[l3,l9]
ALS Vial : 52 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 01 11:26:07 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\2023 Methods\9-PCB-013124C.M
Quant Title : 60/16-013124, 54-013124, 48-013124, 42-013124, 32/68-013124, 21/62-013124 2400136/137
QLast Update : Thu Feb 01 11:26:07 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	4.965	5.023	183.9E6	154.6E6	176.109	163.265
Sum	1232			858.8E6	586.6E6	839.341	813.301
Average	1232					167.868	162.660
33)	L9 1268{1}	6.716	6.786	1919.0E6	1579.4E6	175.194	191.321
34)	L9 1268{2}	6.740	6.813	1926.5E6	1536.8E6	170.176	189.370
35)	L9 1268{3}	6.854	6.957	1756.6E6	1434.1E6	174.123	191.503
36)	L9 1268{4}	7.050	7.106	513.9E6	375.5E6	152.887	164.975
37)	L9 1268{5}	7.206	7.285	4543.2E6	3982.5E6	175.426	198.693
Sum	1268			10659.3E6	8908.2E6	847.806	935.862
Average	1268					169.561	187.172
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40)	L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D. d	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

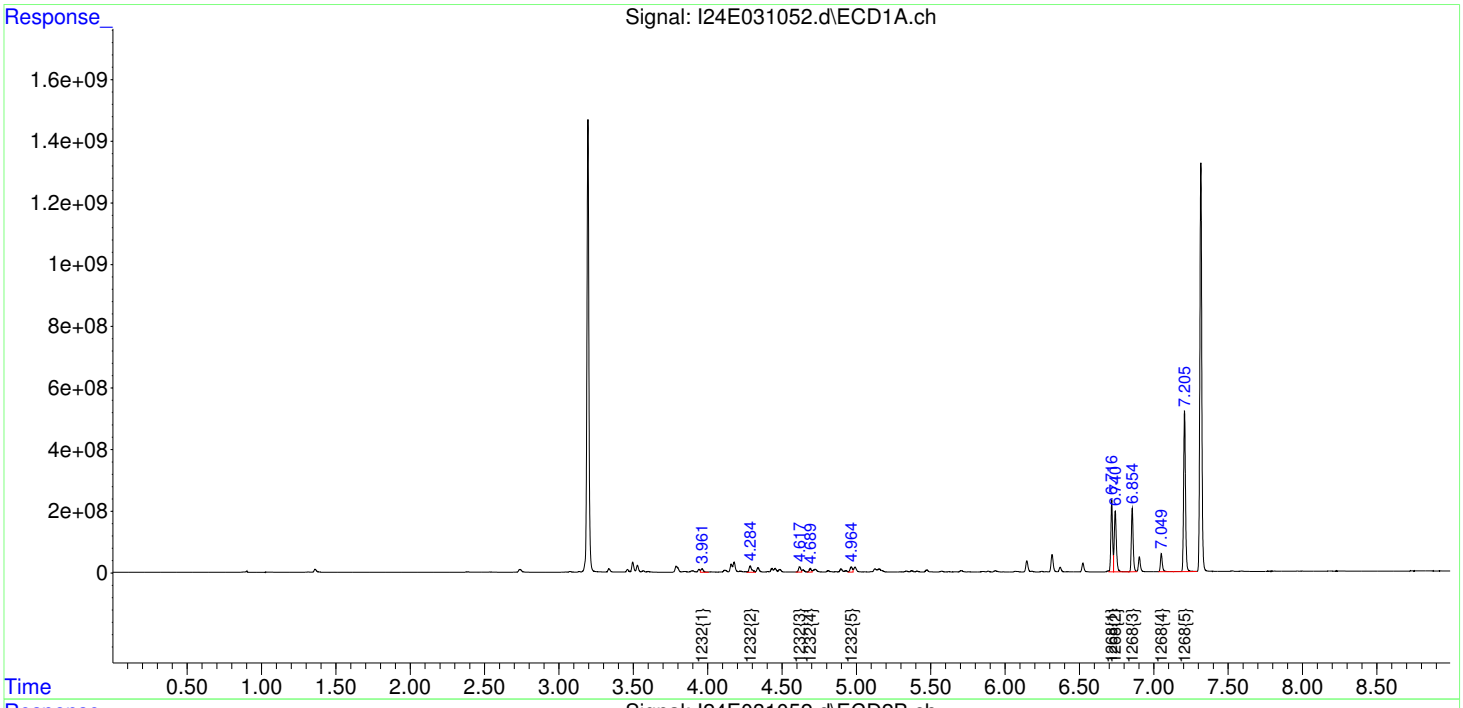
Quantitation Report (Not Reviewed)

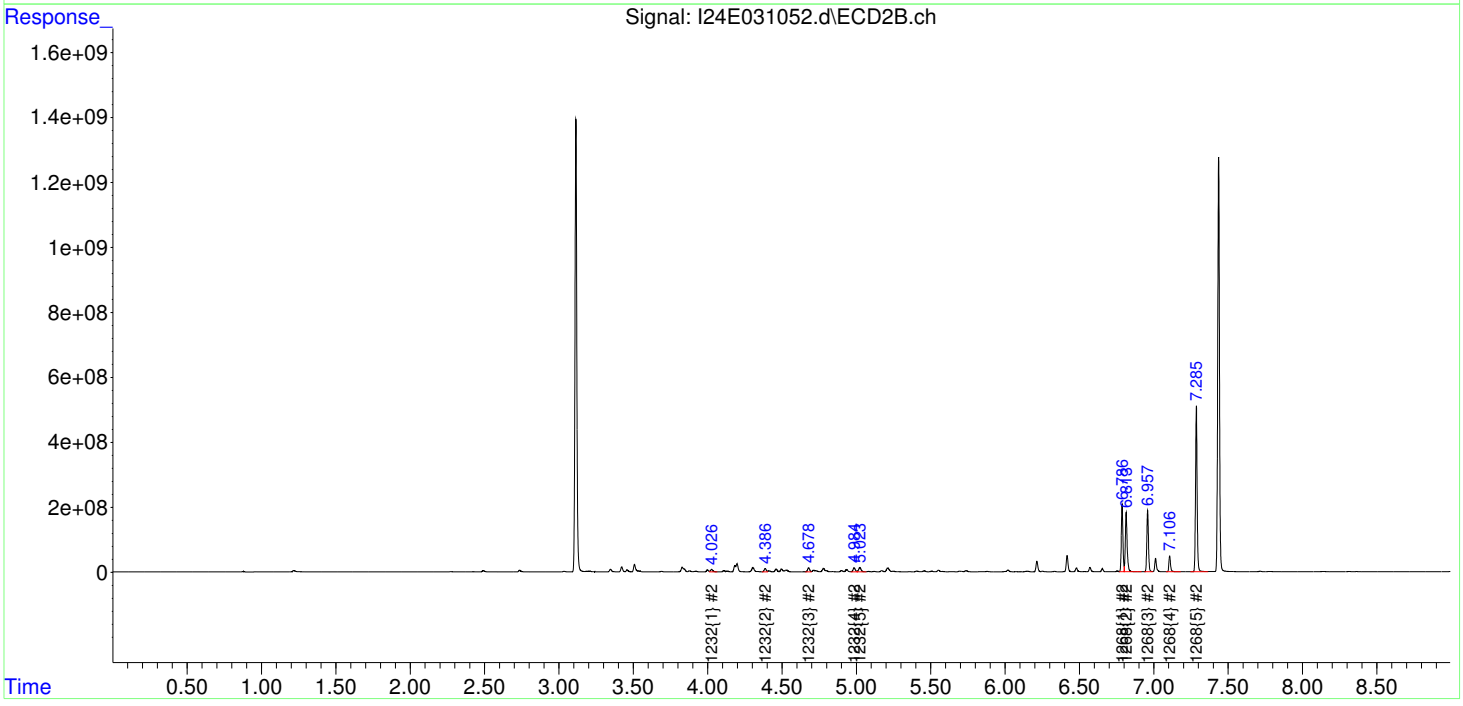
3414

Data Path : C:\msdchem\1\data\013124\
Data File : I24E031052.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Jan 2024 5:34 pm
Operator : PJG
Sample : 1232/1268 200 Inst : ECD 9
Misc : mix[l3,l9]
ALS Vial : 52 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 01 11:26:07 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\2023 Methods\9-PCB-013124C.M
Quant Title : 60/16-013124, 54-013124, 48-013124, 42-013124, 32/68-013124, 21/62-013124 2400136/13
QLast Update : Thu Feb 01 11:26:07 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

3415

Data Path : C:\msdchem\1\data\013124\
Data File : I24E031053.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Jan 2024 5:46 pm
Operator : PJG
Sample : 1232/1268 500 Inst : ECD 9
Misc : mix[l3,l9]
ALS Vial : 53 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 01 11:26:08 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\2023 Methods\9-PCB-013124C.M
Quant Title : 60/16-013124, 54-013124, 48-013124, 42-013124, 32/68-013124, 21/62-013124 2400136/137
QLast Update : Thu Feb 01 11:26:07 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
2) S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
3) L1	1016{1}	0.000	0.000	0	0	N.D. d	N.D. d
4) L1	1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1	1016{3}	0.000	0.000	0	0	N.D. d	N.D. d
6) L1	1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1	1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9) L7	1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7	1260{3}	0.000	0.000	0	0	N.D. d	N.D. d
11) L7	1260{4}	0.000	0.000	0	0	N.D. d	N.D. d
12) L7	1260{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	3.962	4.026	245.6E6	177.3E6	353.634	359.041
29) L3	1232{2}	4.285	4.386	520.2E6	234.1E6	348.448	414.845
30) L3	1232{3}	4.617	4.677	384.5E6	280.9E6	365.043	380.063
31) L3	1232{4}	4.688	4.983	272.0E6	302.8E6	387.113	399.491

Data Path : C:\msdchem\1\data\013124\
Data File : I24E031053.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Jan 2024 5:46 pm
Operator : PJG
Sample : 1232/1268 500 Inst : ECD 9
Misc : mix[l3,l9]
ALS Vial : 53 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 01 11:26:08 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\2023 Methods\9-PCB-013124C.M
Quant Title : 60/16-013124, 54-013124, 48-013124, 42-013124, 32/68-013124, 21/62-013124 2400136/137
QLast Update : Thu Feb 01 11:26:07 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	4.963	5.022	403.4E6	352.6E6	395.639	386.479
	Sum 1232			1825.7E6	1347.7E6	1849.877	1939.920
Average	1232					369.975	387.984
33)	L9 1268{1}	6.716	6.787	4842.4E6	4201.8E6	453.331	513.431
34)	L9 1268{2}	6.740	6.814	4664.7E6	4020.8E6	424.712	500.796
35)	L9 1268{3}	6.854	6.958	4273.4E6	3779.8E6	434.853	509.049
36)	L9 1268{4}	7.049	7.106	1220.4E6	906.7E6	381.004	412.841
37)	L9 1268{5}	7.206	7.286	12010.3E6	10804.0E6	475.438	539.738
	Sum 1268			27011.2E6	23713.0E6	2169.339	2475.855
Average	1268					433.868	495.171
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40)	L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D. d	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

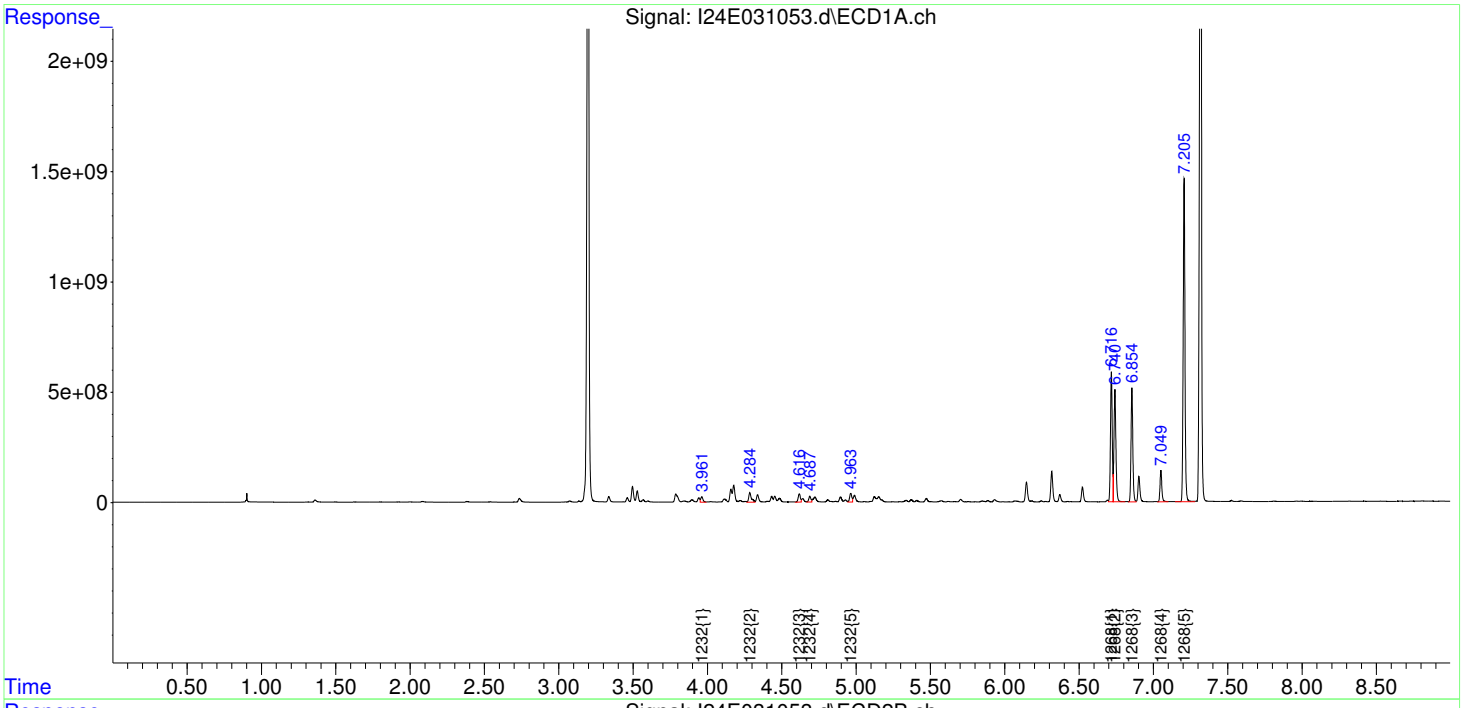
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

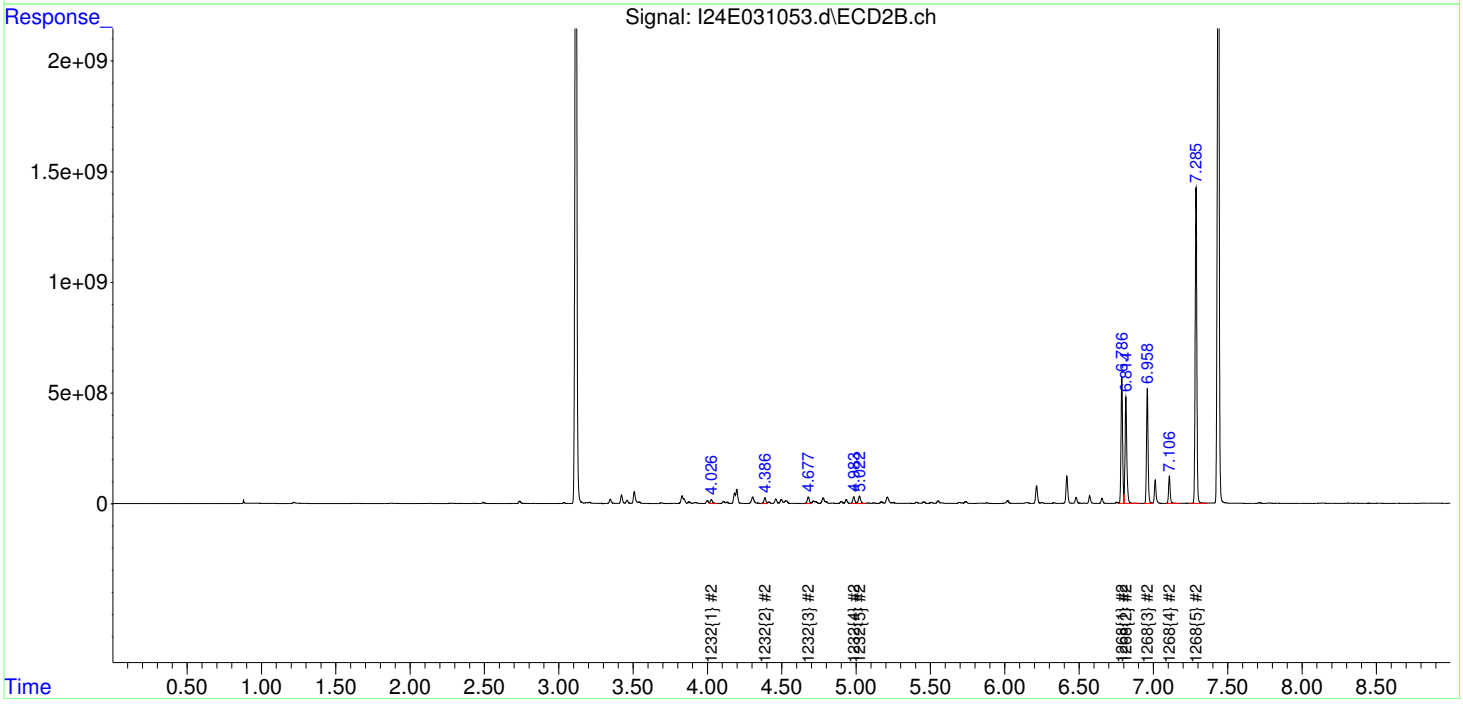
Data Path : C:\msdchem\1\data\013124\
Data File : I24E031053.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Jan 2024 5:46 pm
Operator : PJG
Sample : 1232/1268 500 Inst : ECD 9
Misc : mix[l3,l9]
ALS Vial : 53 Sample Multiplier: 1

3417

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 01 11:26:08 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\2023 Methods\9-PCB-013124C.M
Quant Title : 60/16-013124, 54-013124, 48-013124, 42-013124, 32/68-013124, 21/62-013124 2400136/13
QLast Update : Thu Feb 01 11:26:07 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

3418

Data Path : C:\msdchem\1\data\013124\
Data File : I24E031055.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Jan 2024 6:10 pm
Operator : PJG
Sample : 1232/1268 ICV Inst : ECD 9
Misc : mix[l3,l9]
ALS Vial : 55 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 01 11:28:09 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\2023 Methods\9-PCB-013124C.M
Quant Title : 60/16-013124, 54-013124, 48-013124, 42-013124, 32/68-013124, 21/62-013124 2400136/137
QLast Update : Thu Feb 01 11:27:51 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
2) S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
3) L1	1016{1}	0.000	0.000	0	0	N.D. d	N.D. d
4) L1	1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1	1016{3}	0.000	0.000	0	0	N.D. d	N.D. d
6) L1	1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1	1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9) L7	1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7	1260{3}	0.000	0.000	0	0	N.D. d	N.D. d
11) L7	1260{4}	0.000	0.000	0	0	N.D. d	N.D. d
12) L7	1260{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	3.963	4.026	59630013	41390942	90.273	87.942
29) L3	1232{2}	4.286	4.386	129.3E6	51381882	91.211	93.713
30) L3	1232{3}	4.618	4.678	90931737	63558231	90.385	89.570
31) L3	1232{4}	4.689	4.984	60936391	66375115	90.116	90.607

Data Path : C:\msdchem\1\data\013124\
Data File : I24E031055.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Jan 2024 6:10 pm
Operator : PJG
Sample : 1232/1268 ICV Inst : ECD 9
Misc : mix[l3,l9]
ALS Vial : 55 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 01 11:28:09 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\2023 Methods\9-PCB-013124C.M
Quant Title : 60/16-013124, 54-013124, 48-013124, 42-013124, 32/68-013124, 21/62-013124 2400136/137
QLast Update : Thu Feb 01 11:27:51 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	4.965	5.023	94516215	78543215	96.045	89.476
Sum	1232			435.3E6	301.2E6	458.031	451.308
Average	1232					91.606	90.262
33)	L9 1268{1}	6.716	6.786	931.6E6	743.3E6	88.592	90.427
34)	L9 1268{2}	6.740	6.814	959.3E6	738.0E6	89.586	91.900
35)	L9 1268{3}	6.854	6.958	765.4E6	603.4E6	79.619	81.019
36)	L9 1268{4}	7.050	7.106	363.0E6	265.3E6	124.087	124.416
37)	L9 1268{5}	7.206	7.285	2349.4E6	2073.8E6	95.055	102.247
Sum	1268			5368.7E6	4423.9E6	476.939	490.010
Average	1268					95.388	98.002
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40)	L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D. d	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

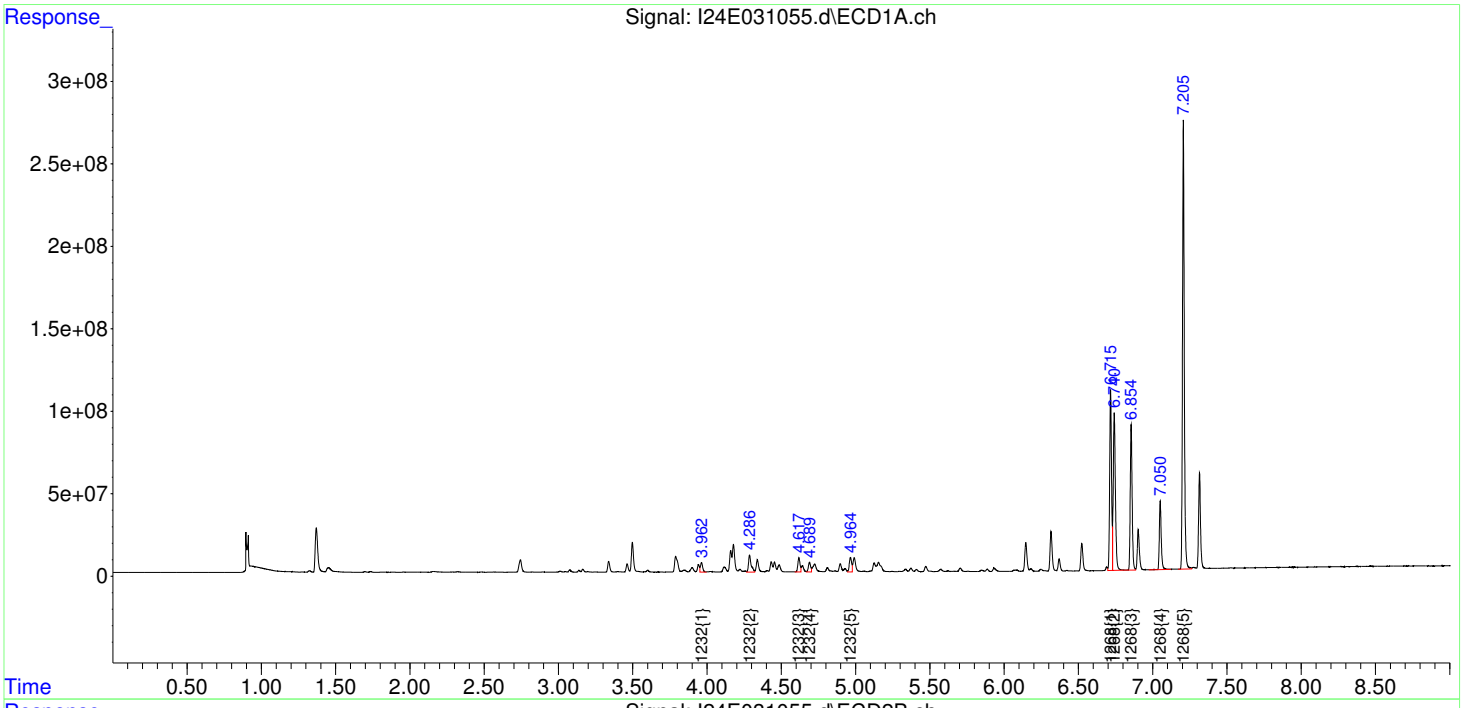
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

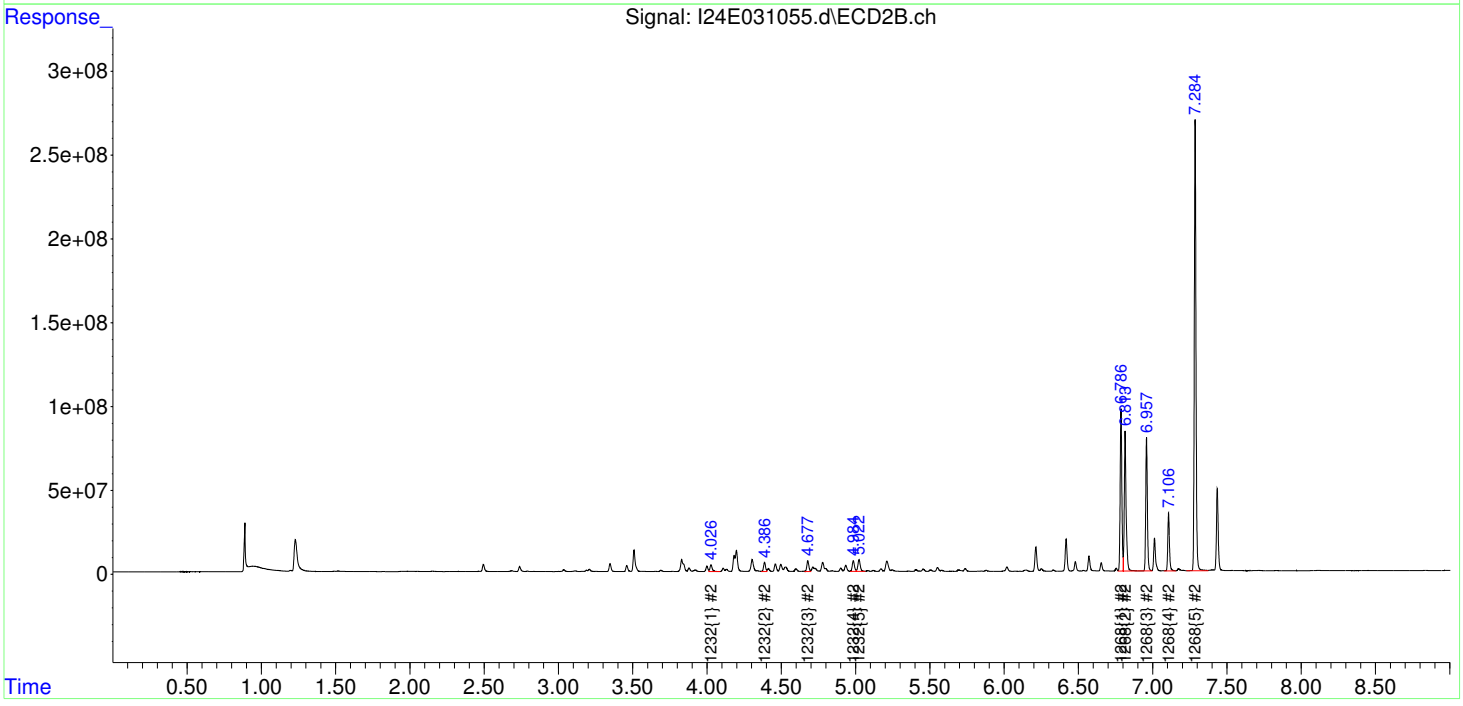
Data Path : C:\msdchem\1\data\013124\
Data File : I24E031055.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Jan 2024 6:10 pm
Operator : PJG
Sample : 1232/1268 ICV Inst : ECD 9
Misc : mix[l3,l9]
ALS Vial : 55 Sample Multiplier: 1

3420

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 01 11:28:09 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\2023 Methods\9-PCB-013124C.M
Quant Title : 60/16-013124, 54-013124, 48-013124, 42-013124, 32/68-013124, 21/62-013124 2400136/13
QLast Update : Thu Feb 01 11:27:51 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

3421

Data Path : C:\msdchem\1\data\013124\
Data File : I24E031057.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Jan 2024 6:33 pm
Operator : PJG
Sample : 1221/1262 10 Inst : ECD 9
Misc : mix[l2,l8]
ALS Vial : 57 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 01 11:28:43 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\2023 Methods\9-PCB-013124C.M
Quant Title : 60/16-013124, 54-013124, 48-013124, 42-013124, 32/68-013124, 21/62-013124 2400136/137
QLast Update : Thu Feb 01 11:28:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
2) S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
3) L1	1016{1}	0.000	0.000	0	0	N.D. d	N.D.
4) L1	1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1	1016{3}	0.000	0.000	0	0	N.D.	N.D.
6) L1	1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1	1016{5}	0.000	0.000	0	0	N.D.	N.D.
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9) L7	1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7	1260{3}	0.000	0.000	0	0	N.D. d	N.D. d
11) L7	1260{4}	0.000	0.000	0	0	N.D. d	N.D. d
12) L7	1260{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D.
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	0.000	0.000	0	0	N.D.	N.D.
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D.	N.D.
21) L5	1248{4}	0.000	0.000	0	0	N.D.	N.D.
22) L5	1248{5}	0.000	0.000	0	0	N.D.	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D.
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D.
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D.	N.D.
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D.
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D.
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D.	N.D.

Data Path : C:\msdchem\1\data\013124\
Data File : I24E031057.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Jan 2024 6:33 pm
Operator : PJG
Sample : 1221/1262 10 Inst : ECD 9
Misc : mix[l2,l8]
ALS Vial : 57 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 01 11:28:43 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\2023 Methods\9-PCB-013124C.M
Quant Title : 60/16-013124, 54-013124, 48-013124, 42-013124, 32/68-013124, 21/62-013124 2400136/137
QLast Update : Thu Feb 01 11:28:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D.	N.D. d
	Sum 1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	3.337	3.346	10051128	7803234	NoCal	NoCal
39)	L2 1221{2}	3.497	3.459	24182850	5381680	NoCal	NoCal
40)	L2 1221{3}	3.908	3.508	2921373	18117459	NoCal	NoCal
	Sum 1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	5.504	5.579	23653336	16949512	NoCal	NoCal
42)	L8 1262{2}	5.847	5.878	55147580	34097363	NoCal	NoCal
43)	L8 1262{3}	6.145	6.213	58396333	40270494	NoCal	NoCal
44)	L8 1262{4}	6.320	6.415	52557082	38204003	NoCal	NoCal
45)	L8 1262{5}	6.521	6.570	116.9E6	76210039	NoCal	NoCal
	Sum 1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

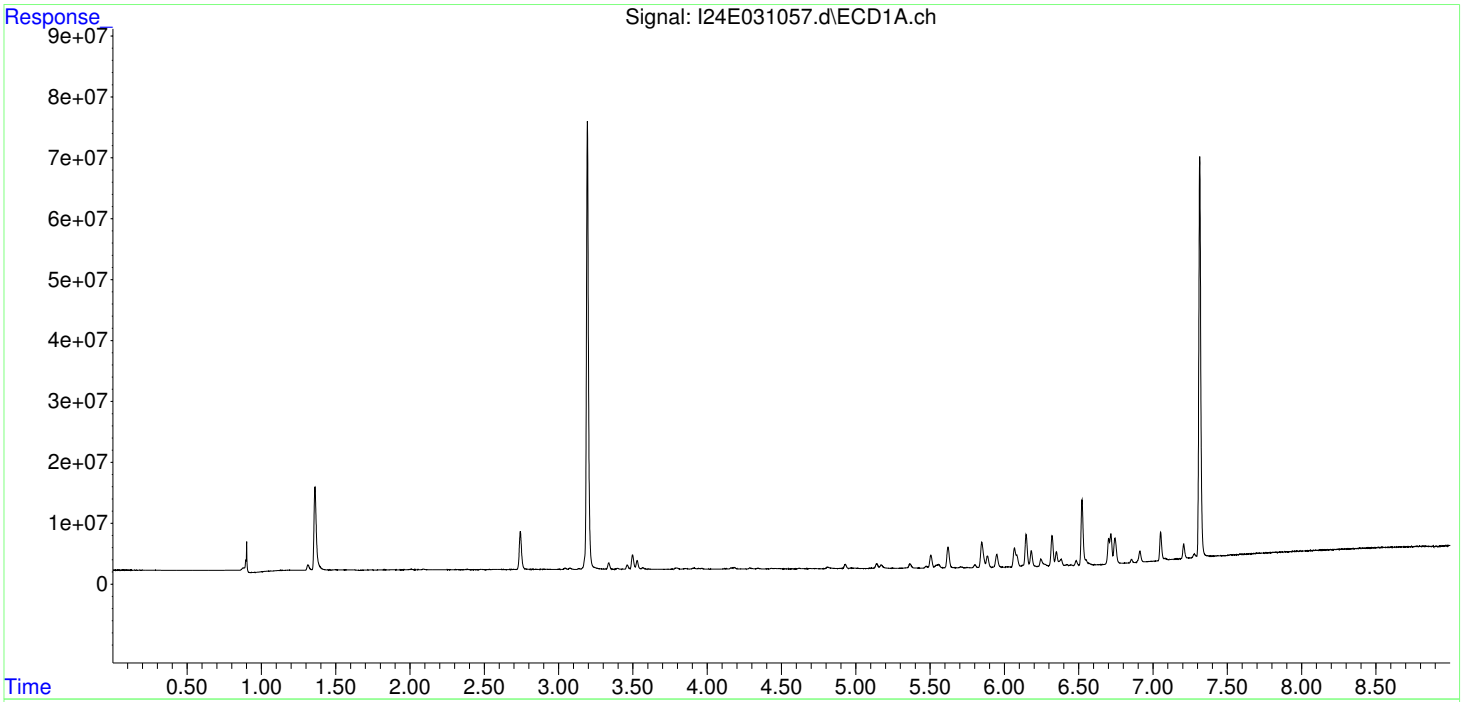
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

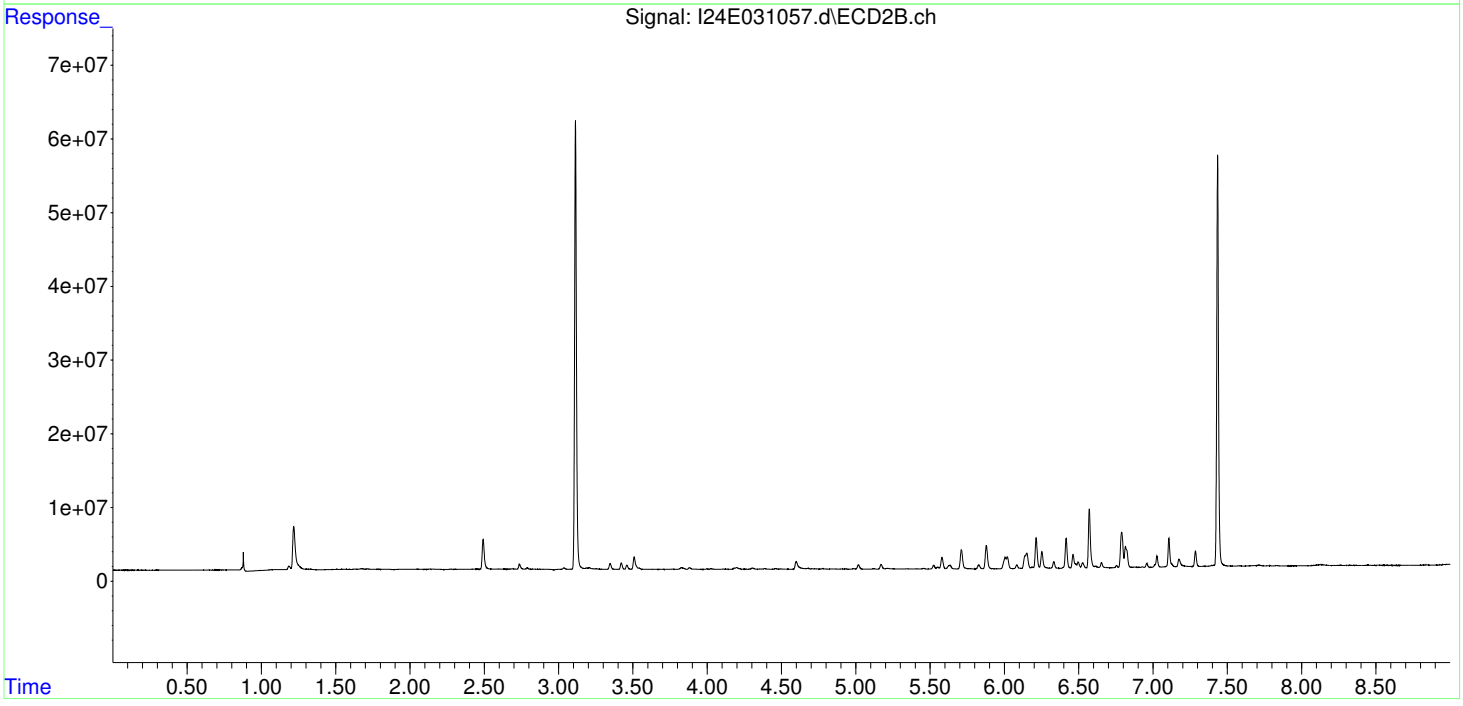
Data Path : C:\msdchem\1\data\013124\
Data File : I24E031057.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Jan 2024 6:33 pm
Operator : PJG
Sample : 1221/1262 10 Inst : ECD 9
Misc : mix[l2,l8]
ALS Vial : 57 Sample Multiplier: 1

3423

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 01 11:28:43 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\2023 Methods\9-PCB-013124C.M
Quant Title : 60/16-013124, 54-013124, 48-013124, 42-013124, 32/68-013124, 21/62-013124 2400136/13
QLast Update : Thu Feb 01 11:28:42 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

3424

Data Path : C:\msdchem\1\data\013124\
Data File : I24E031058.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Jan 2024 6:45 pm
Operator : PJG
Sample : 1221/1262 20 Inst : ECD 9
Misc : mix[l2,l8]
ALS Vial : 58 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 01 11:28:44 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\2023 Methods\9-PCB-013124C.M
Quant Title : 60/16-013124, 54-013124, 48-013124, 42-013124, 32/68-013124, 21/62-013124 2400136/137
QLast Update : Thu Feb 01 11:28:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
2) S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
3) L1	1016{1}	0.000	0.000	0	0	N.D. d	N.D. d
4) L1	1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1	1016{3}	0.000	0.000	0	0	N.D. d	N.D. d
6) L1	1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1	1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9) L7	1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7	1260{3}	0.000	0.000	0	0	N.D. d	N.D. d
11) L7	1260{4}	0.000	0.000	0	0	N.D. d	N.D. d
12) L7	1260{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\013124\
Data File : I24E031058.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Jan 2024 6:45 pm
Operator : PJG
Sample : 1221/1262 20 Inst : ECD 9
Misc : mix[l2,l8]
ALS Vial : 58 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 01 11:28:44 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\2023 Methods\9-PCB-013124C.M
Quant Title : 60/16-013124, 54-013124, 48-013124, 42-013124, 32/68-013124, 21/62-013124 2400136/137
QLast Update : Thu Feb 01 11:28:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	3.336	3.346	21708325	14458937	21.598	18.529
39)	L2 1221{2}	3.497	3.459	45841439	10001610	18.956	18.585
40)	L2 1221{3}	3.905	3.508	5924859	33217589	20.281	18.335
Sum	1221			73474623	57678136	60.835	55.449
Average	1221					20.278	18.483
41)	L8 1262{1}	5.504	5.579	47268764	32669864	19.984	19.275
42)	L8 1262{2}	5.847	5.878	108.1E6	65562060	19.600	19.228
43)	L8 1262{3}	6.145	6.213	115.6E6	78546942	19.791	19.505
44)	L8 1262{4}	6.320	6.414	103.7E6	75006091	19.730	19.633
45)	L8 1262{5}	6.522	6.571	234.0E6	152.6E6	20.007	20.022
Sum	1262			608.6E6	404.4E6	99.111	97.662
Average	1262					19.822	19.532

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

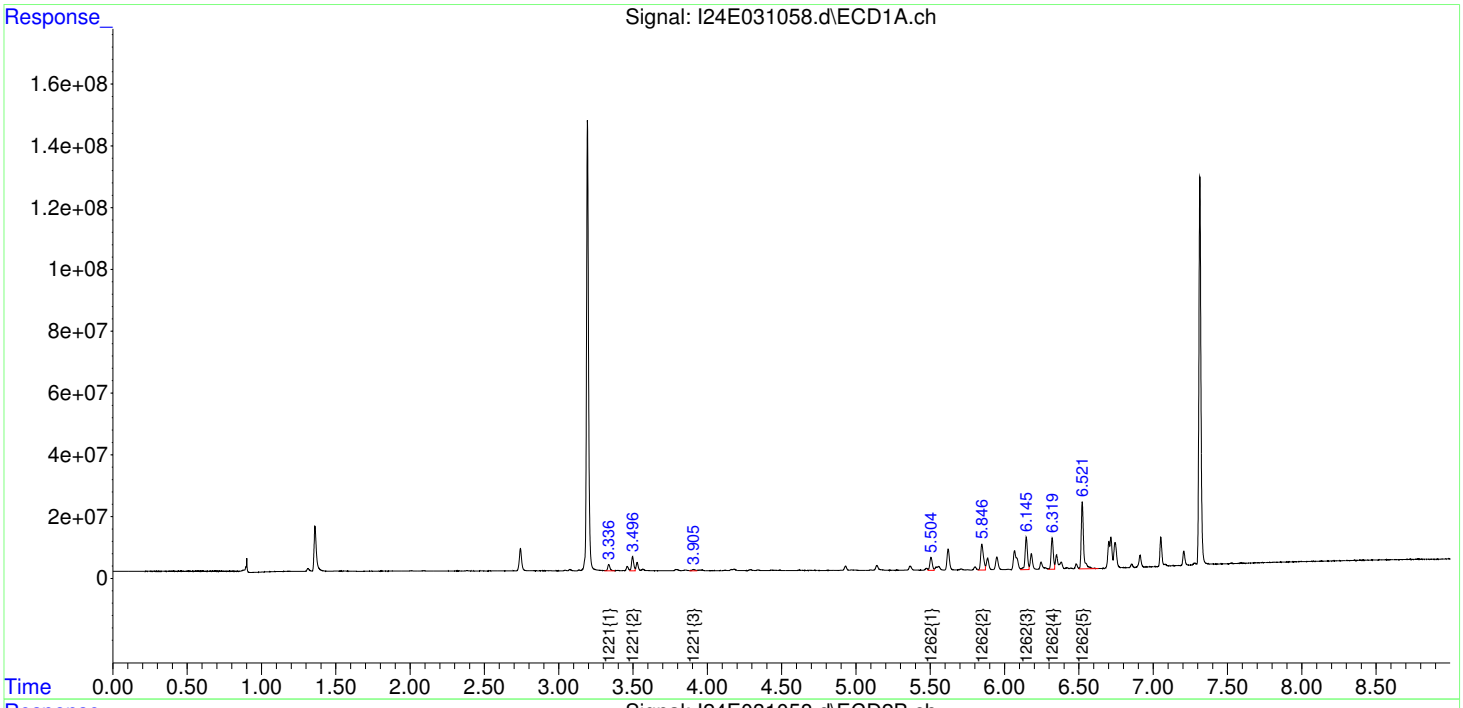
Quantitation Report (Not Reviewed)

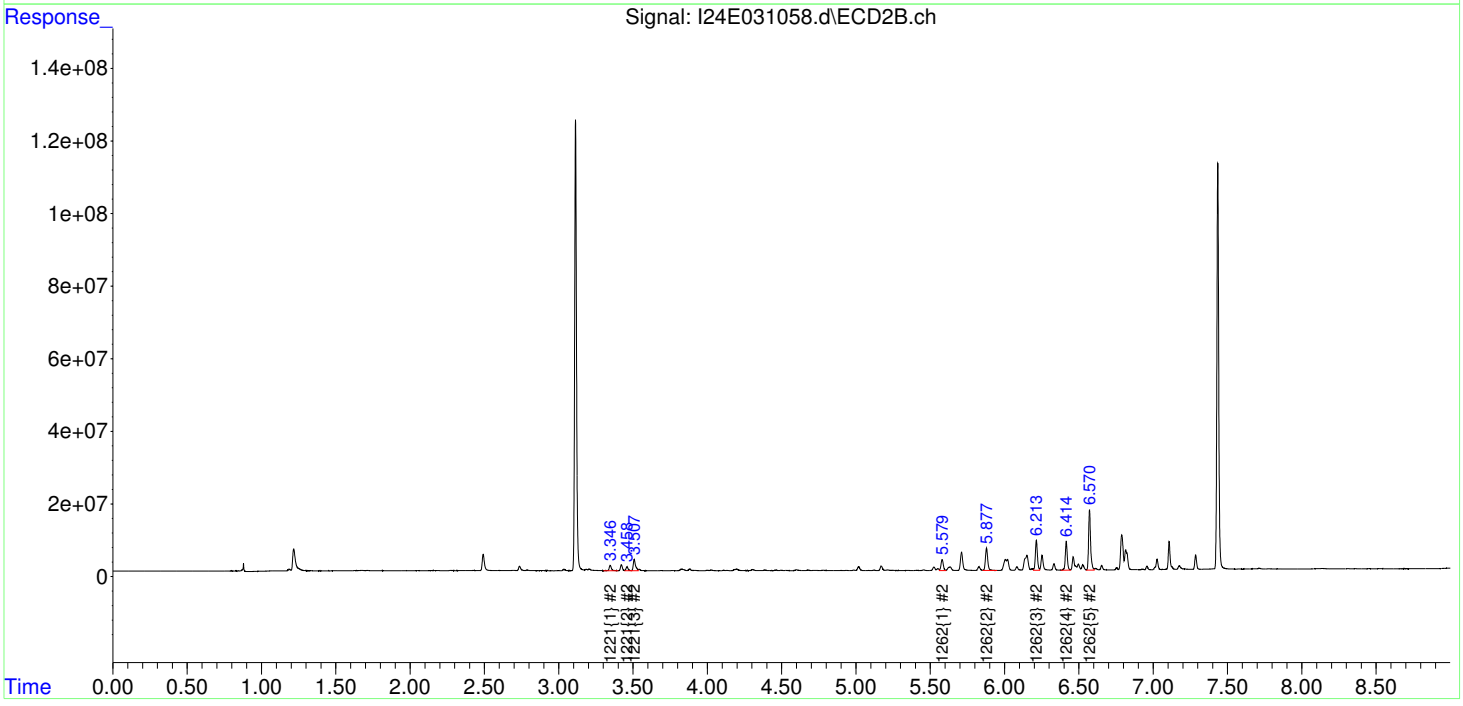
3426

Data Path : C:\msdchem\1\data\013124\
Data File : I24E031058.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Jan 2024 6:45 pm
Operator : PJG
Sample : 1221/1262 20 Inst : ECD 9
Misc : mix[l2,l8]
ALS Vial : 58 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 01 11:28:44 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\2023 Methods\9-PCB-013124C.M
Quant Title : 60/16-013124, 54-013124, 48-013124, 42-013124, 32/68-013124, 21/62-013124 2400136/13
QLast Update : Thu Feb 01 11:28:43 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\013124\
Data File : I24E031059.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Jan 2024 6:57 pm
Operator : PJG
Sample : 1221/1262 50 Inst : ECD 9
Misc : mix[l2,l8]
ALS Vial : 59 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 01 11:28:44 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\2023 Methods\9-PCB-013124C.M
Quant Title : 60/16-013124, 54-013124, 48-013124, 42-013124, 32/68-013124, 21/62-013124 2400136/137
QLast Update : Thu Feb 01 11:28:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
2) S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
3) L1	1016{1}	0.000	0.000	0	0	N.D. d	N.D. d
4) L1	1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1	1016{3}	0.000	0.000	0	0	N.D. d	N.D. d
6) L1	1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1	1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9) L7	1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7	1260{3}	0.000	0.000	0	0	N.D. d	N.D. d
11) L7	1260{4}	0.000	0.000	0	0	N.D. d	N.D. d
12) L7	1260{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\013124\
Data File : I24E031059.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Jan 2024 6:57 pm
Operator : PJG
Sample : 1221/1262 50 Inst : ECD 9
Misc : mix[l2,l8]
ALS Vial : 59 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 01 11:28:44 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\2023 Methods\9-PCB-013124C.M
Quant Title : 60/16-013124, 54-013124, 48-013124, 42-013124, 32/68-013124, 21/62-013124 2400136/137
QLast Update : Thu Feb 01 11:28:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	3.336	3.346	49342422	32701909	47.206	43.508
39)	L2 1221{2}	3.496	3.459	106.8E6	22643490	45.330	43.619
40)	L2 1221{3}	3.903	3.508	15252893	75483774	51.847	43.474
Sum	1221			171.4E6	130.8E6	144.383	130.600
Average	1221					48.128	43.533
41)	L8 1262{1}	5.504	5.579	105.0E6	70997748	44.408	42.661
42)	L8 1262{2}	5.847	5.877	239.1E6	144.4E6	43.793	43.192
43)	L8 1262{3}	6.145	6.213	254.4E6	175.2E6	43.785	44.058
44)	L8 1262{4}	6.320	6.415	231.2E6	168.4E6	44.285	44.475
45)	L8 1262{5}	6.521	6.571	514.3E6	356.2E6	43.974	46.710
Sum	1262			1343.9E6	915.2E6	220.245	221.095
Average	1262					44.049	44.219

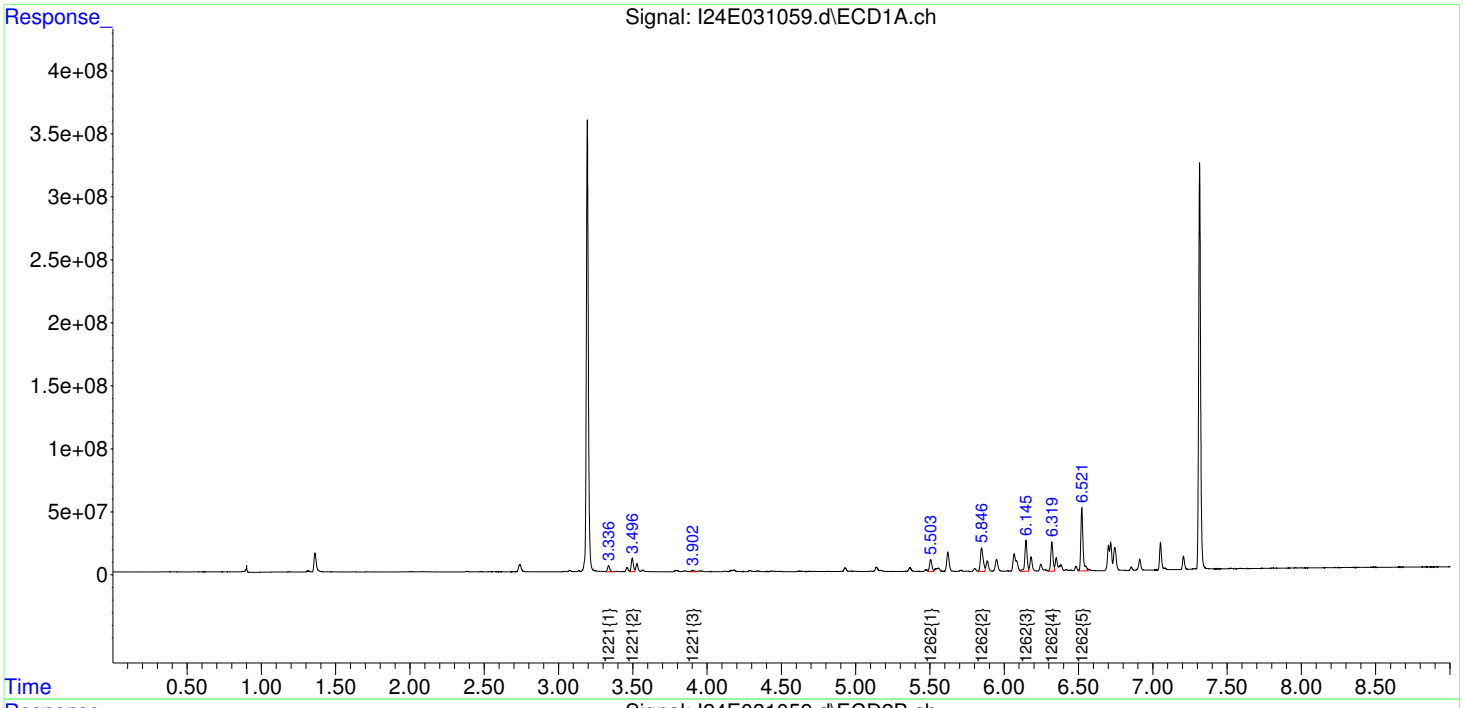
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

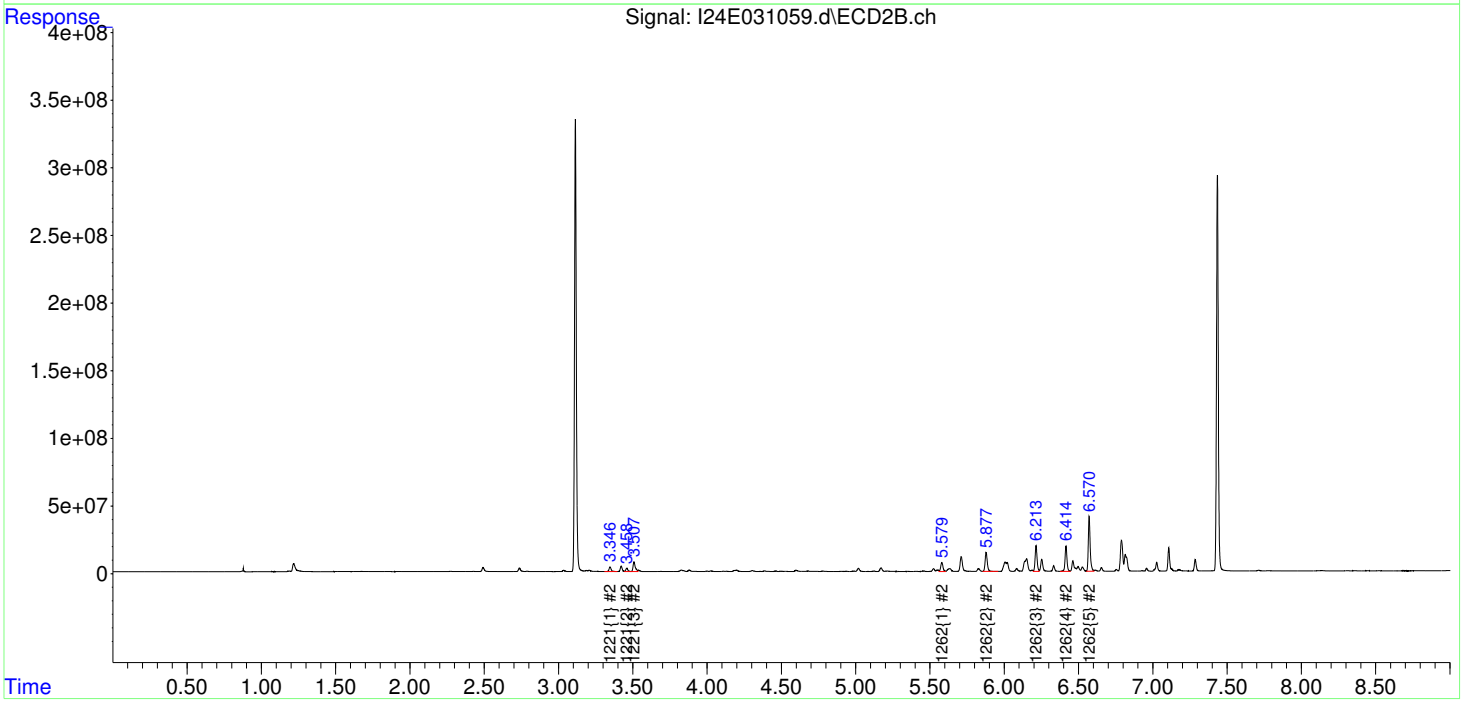
Data Path : C:\msdchem\1\data\013124\
Data File : I24E031059.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Jan 2024 6:57 pm
Operator : PJG
Sample : 1221/1262 50 Inst : ECD 9
Misc : mix[l2,l8]
ALS Vial : 59 Sample Multiplier: 1

3429

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 01 11:28:44 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\2023 Methods\9-PCB-013124C.M
Quant Title : 60/16-013124, 54-013124, 48-013124, 42-013124, 32/68-013124, 21/62-013124 2400136/13
QLast Update : Thu Feb 01 11:28:44 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

3430

Data Path : C:\msdchem\1\data\013124\
Data File : I24E031060.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Jan 2024 7:09 pm
Operator : PJG
Sample : 1221/1262 100 Inst : ECD 9
Misc : mix[l2,l8]
ALS Vial : 60 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 01 11:28:45 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\2023 Methods\9-PCB-013124C.M
Quant Title : 60/16-013124, 54-013124, 48-013124, 42-013124, 32/68-013124, 21/62-013124 2400136/137
QLast Update : Thu Feb 01 11:28:45 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
2) S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
3) L1	1016{1}	0.000	0.000	0	0	N.D. d	N.D. d
4) L1	1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1	1016{3}	0.000	0.000	0	0	N.D. d	N.D. d
6) L1	1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1	1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9) L7	1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7	1260{3}	0.000	0.000	0	0	N.D. d	N.D. d
11) L7	1260{4}	0.000	0.000	0	0	N.D. d	N.D. d
12) L7	1260{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\013124\
Data File : I24E031060.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Jan 2024 7:09 pm
Operator : PJG
Sample : 1221/1262 100 Inst : ECD 9
Misc : mix[l2,l8]
ALS Vial : 60 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 01 11:28:45 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\2023 Methods\9-PCB-013124C.M
Quant Title : 60/16-013124, 54-013124, 48-013124, 42-013124, 32/68-013124, 21/62-013124 2400136/137
QLast Update : Thu Feb 01 11:28:45 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	3.336	3.346	97123822	61719945	94.682	85.829
39)	L2 1221{2}	3.495	3.458	202.0E6	41840062	88.522	84.179
40)	L2 1221{3}	3.901	3.507	30299331	141.9E6	101.740	85.454
Sum	1221			329.4E6	245.5E6	284.943	255.461
Average	1221					94.981	85.154
41)	L8 1262{1}	5.504	5.579	193.6E6	131.7E6	85.067	83.213
42)	L8 1262{2}	5.846	5.878	443.5E6	271.5E6	84.738	85.057
43)	L8 1262{3}	6.145	6.213	470.8E6	334.3E6	84.540	87.526
44)	L8 1262{4}	6.320	6.414	429.8E6	322.5E6	85.601	88.450
45)	L8 1262{5}	6.521	6.570	968.3E6	696.4E6	86.256	93.379
Sum	1262			2506.0E6	1756.4E6	426.202	437.625
Average	1262					85.240	87.525

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

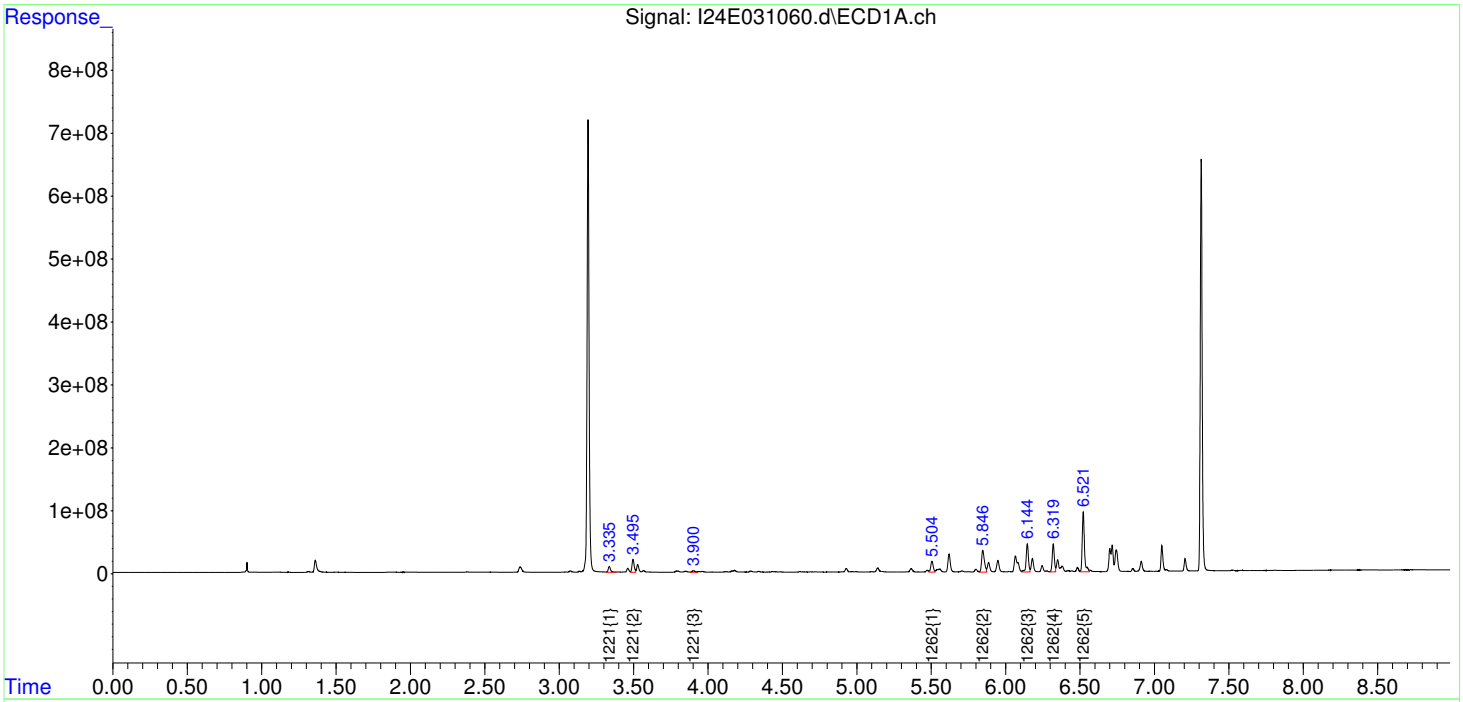
Quantitation Report (Not Reviewed)

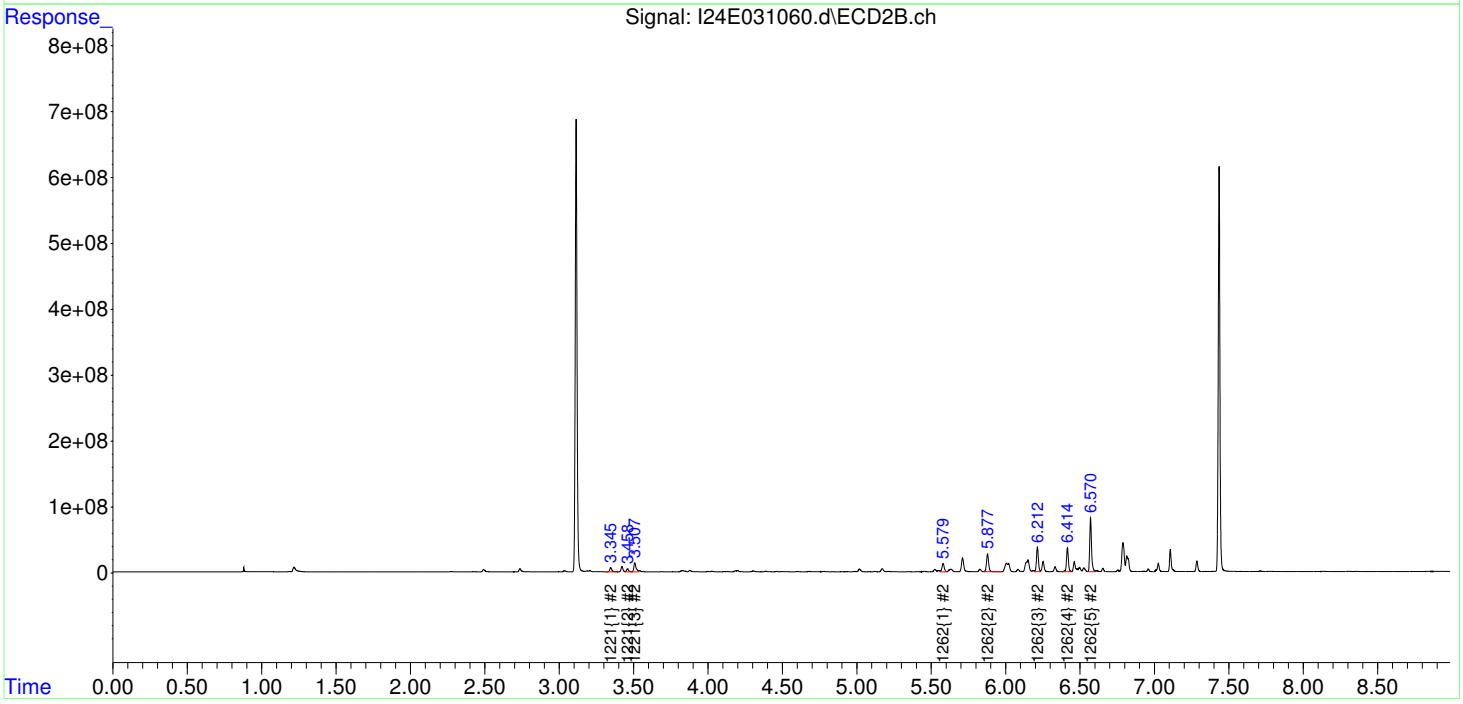
3432

Data Path : C:\msdchem\1\data\013124\
Data File : I24E031060.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Jan 2024 7:09 pm
Operator : PJG
Sample : 1221/1262 100 Inst : ECD 9
Misc : mix[l2,l8]
ALS Vial : 60 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 01 11:28:45 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\2023 Methods\9-PCB-013124C.M
Quant Title : 60/16-013124, 54-013124, 48-013124, 42-013124, 32/68-013124, 21/62-013124 2400136/13
QLast Update : Thu Feb 01 11:28:45 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

3433

Data Path : C:\msdchem\1\data\013124\
Data File : I24E031061.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Jan 2024 7:21 pm
Operator : PJG
Sample : 1221/1262 200 Inst : ECD 9
Misc : mix[l2,l8]
ALS Vial : 61 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 01 11:28:46 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\2023 Methods\9-PCB-013124C.M
Quant Title : 60/16-013124, 54-013124, 48-013124, 42-013124, 32/68-013124, 21/62-013124 2400136/137
QLast Update : Thu Feb 01 11:28:46 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
2) S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
3) L1	1016{1}	0.000	0.000	0	0	N.D. d	N.D. d
4) L1	1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1	1016{3}	0.000	0.000	0	0	N.D. d	N.D. d
6) L1	1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1	1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9) L7	1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7	1260{3}	0.000	0.000	0	0	N.D. d	N.D. d
11) L7	1260{4}	0.000	0.000	0	0	N.D. d	N.D. d
12) L7	1260{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\013124\
Data File : I24E031061.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Jan 2024 7:21 pm
Operator : PJG
Sample : 1221/1262 200 Inst : ECD 9
Misc : mix[l2,l8]
ALS Vial : 61 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 01 11:28:46 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\2023 Methods\9-PCB-013124C.M
Quant Title : 60/16-013124, 54-013124, 48-013124, 42-013124, 32/68-013124, 21/62-013124 2400136/137
QLast Update : Thu Feb 01 11:28:46 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

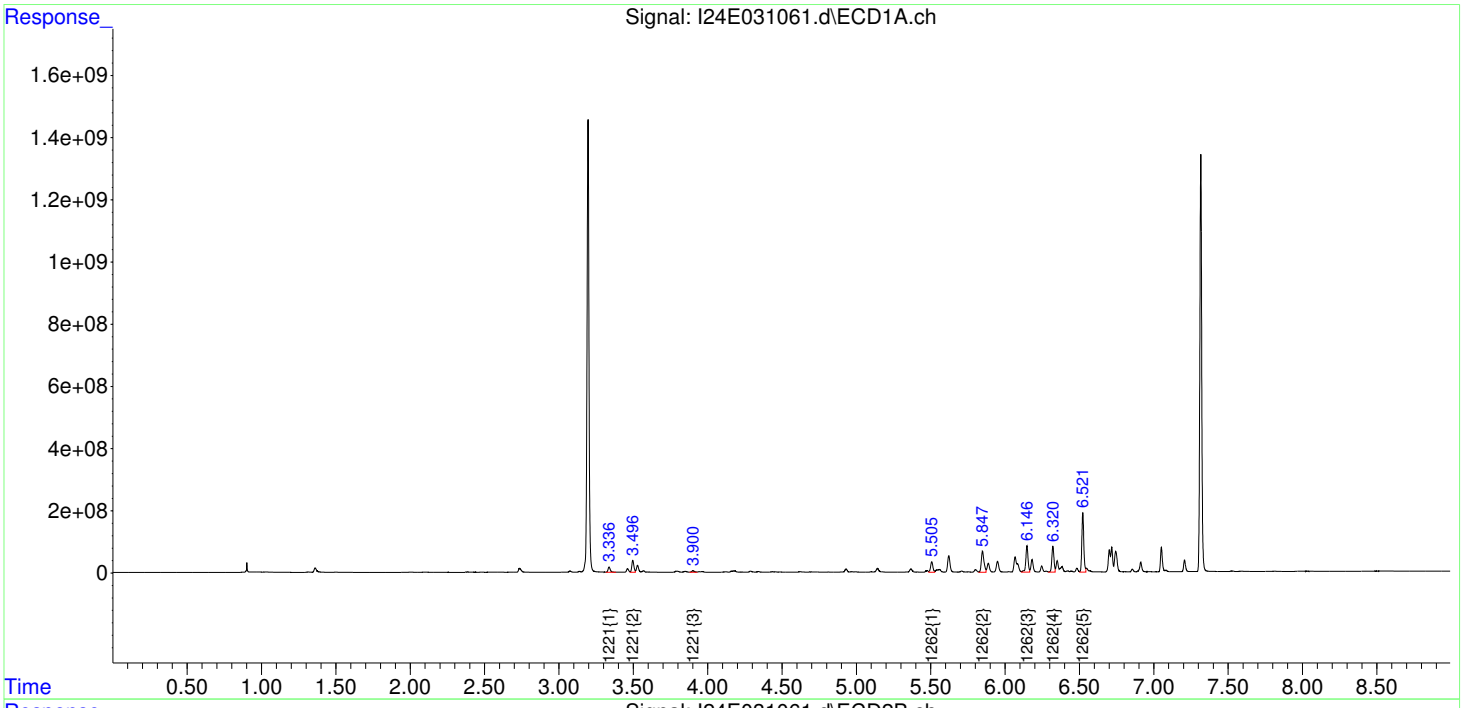
	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	3.337	3.345	177.7E6	115.1E6	175.567	165.891
39)	L2 1221{2}	3.496	3.458	373.8E6	76309705	168.664	159.851
40)	L2 1221{3}	3.901	3.506	57843282	268.5E6	193.386	167.748
Sum	1221			609.4E6	459.8E6	537.617	493.490
Average	1221					179.206	164.497
41)	L8 1262{1}	5.506	5.579	362.2E6	251.3E6	165.284	165.701
42)	L8 1262{2}	5.847	5.877	830.6E6	524.0E6	164.991	170.526
43)	L8 1262{3}	6.146	6.213	879.9E6	653.8E6	164.374	176.670
44)	L8 1262{4}	6.321	6.415	812.7E6	631.5E6	167.905	178.352
45)	L8 1262{5}	6.522	6.570	1753.2E6	1385.0E6	161.728	188.830
Sum	1262			4638.6E6	3445.5E6	824.281	880.078
Average	1262					164.856	176.016

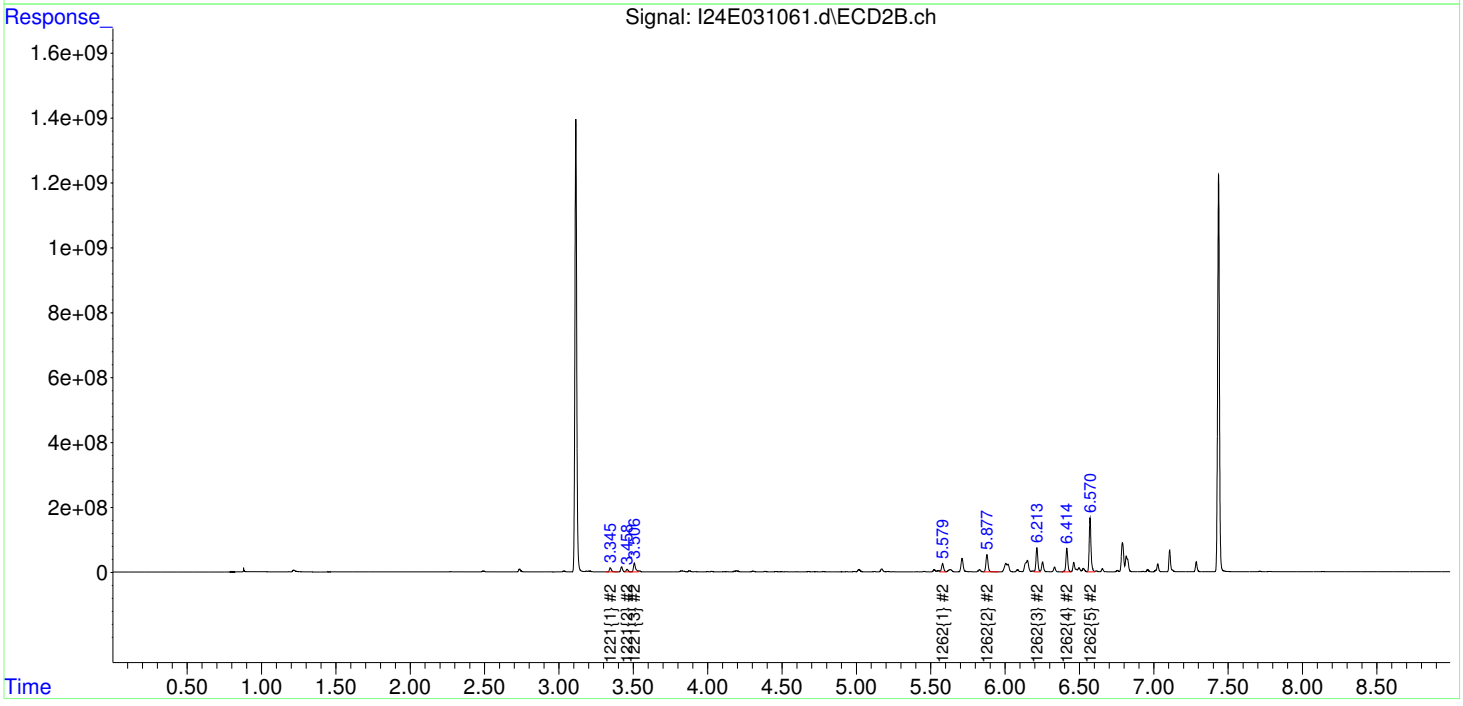
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\msdchem\1\data\013124\
Data File : I24E031061.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Jan 2024 7:21 pm
Operator : PJG
Sample : 1221/1262 200 Inst : ECD 9
Misc : mix[l2,l8]
ALS Vial : 61 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 01 11:28:46 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\2023 Methods\9-PCB-013124C.M
Quant Title : 60/16-013124, 54-013124, 48-013124, 42-013124, 32/68-013124, 21/62-013124 2400136/13
QLast Update : Thu Feb 01 11:28:46 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

3436

Data Path : C:\msdchem\1\data\013124\
Data File : I24E031062.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Jan 2024 7:33 pm
Operator : PJG
Sample : 1221/1262 500 Inst : ECD 9
Misc : mix[l2,l8]
ALS Vial : 62 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 01 11:28:47 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\2023 Methods\9-PCB-013124C.M
Quant Title : 60/16-013124, 54-013124, 48-013124, 42-013124, 32/68-013124, 21/62-013124 2400136/137
QLast Update : Thu Feb 01 11:28:46 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
2) S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
3) L1	1016{1}	0.000	0.000	0	0	N.D. d	N.D. d
4) L1	1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1	1016{3}	0.000	0.000	0	0	N.D. d	N.D. d
6) L1	1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1	1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9) L7	1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7	1260{3}	0.000	0.000	0	0	N.D. d	N.D. d
11) L7	1260{4}	0.000	0.000	0	0	N.D. d	N.D. d
12) L7	1260{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\013124\
Data File : I24E031062.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Jan 2024 7:33 pm
Operator : PJG
Sample : 1221/1262 500 Inst : ECD 9
Misc : mix[l2,l8]
ALS Vial : 62 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 01 11:28:47 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\2023 Methods\9-PCB-013124C.M
Quant Title : 60/16-013124, 54-013124, 48-013124, 42-013124, 32/68-013124, 21/62-013124 2400136/137
QLast Update : Thu Feb 01 11:28:46 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	3.335	3.345	394.3E6	272.3E6	399.346	406.478
39)	L2 1221{2}	3.495	3.458	832.6E6	174.1E6	387.805	379.995
40)	L2 1221{3}	3.897	3.507	130.0E6	632.1E6	437.553	408.136
Sum	1221			1356.9E6	1078.5E6	1224.704	1194.609
Average	1221					408.235	398.203
41)	L8 1262{1}	5.505	5.579	806.2E6	591.2E6	381.153	403.718
42)	L8 1262{2}	5.846	5.878	1879.1E6	1250.2E6	386.825	419.199
43)	L8 1262{3}	6.145	6.213	1946.9E6	1570.9E6	377.116	434.647
44)	L8 1262{4}	6.320	6.415	1856.6E6	1524.3E6	396.278	440.043
45)	L8 1262{5}	6.521	6.571	4166.7E6	3453.0E6	399.669	476.111
Sum	1262			10655.5E6	8389.6E6	1941.042	2173.718
Average	1262					388.208	434.744

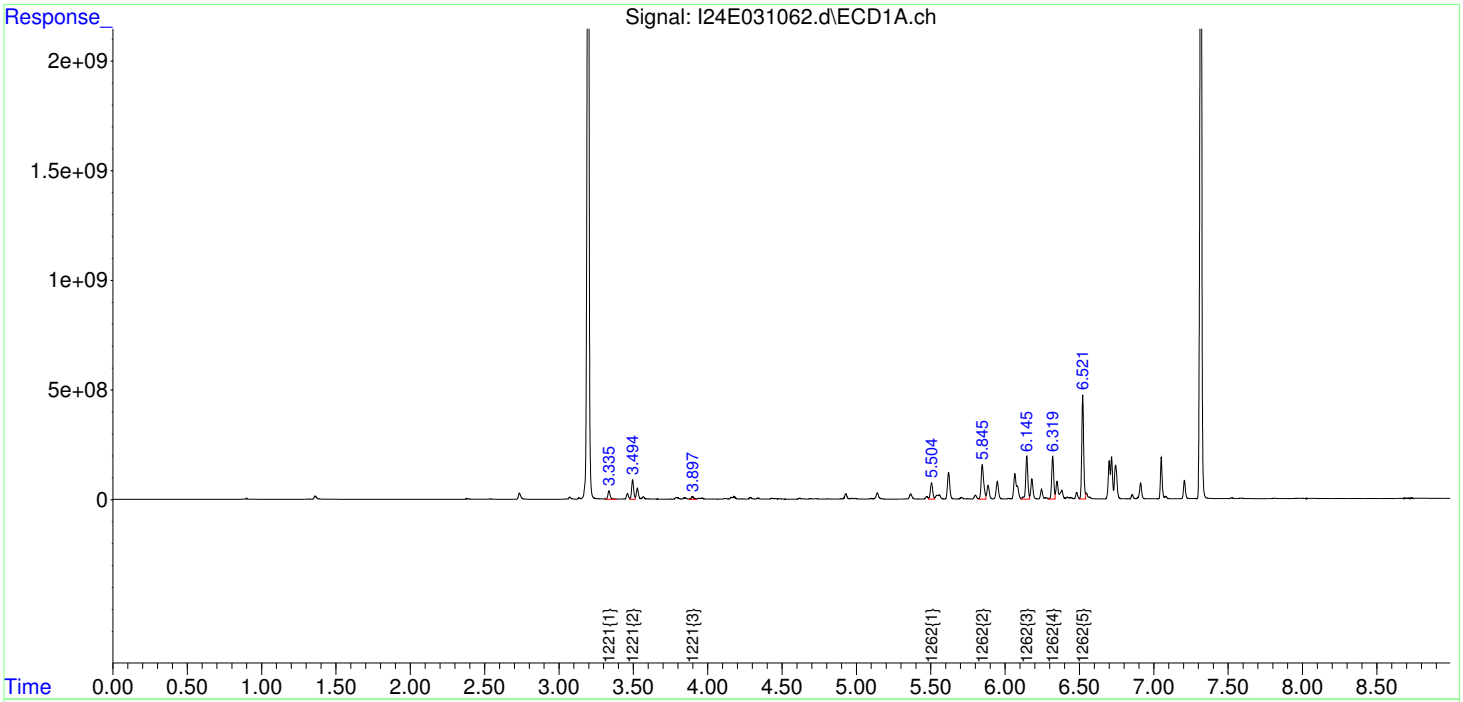
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

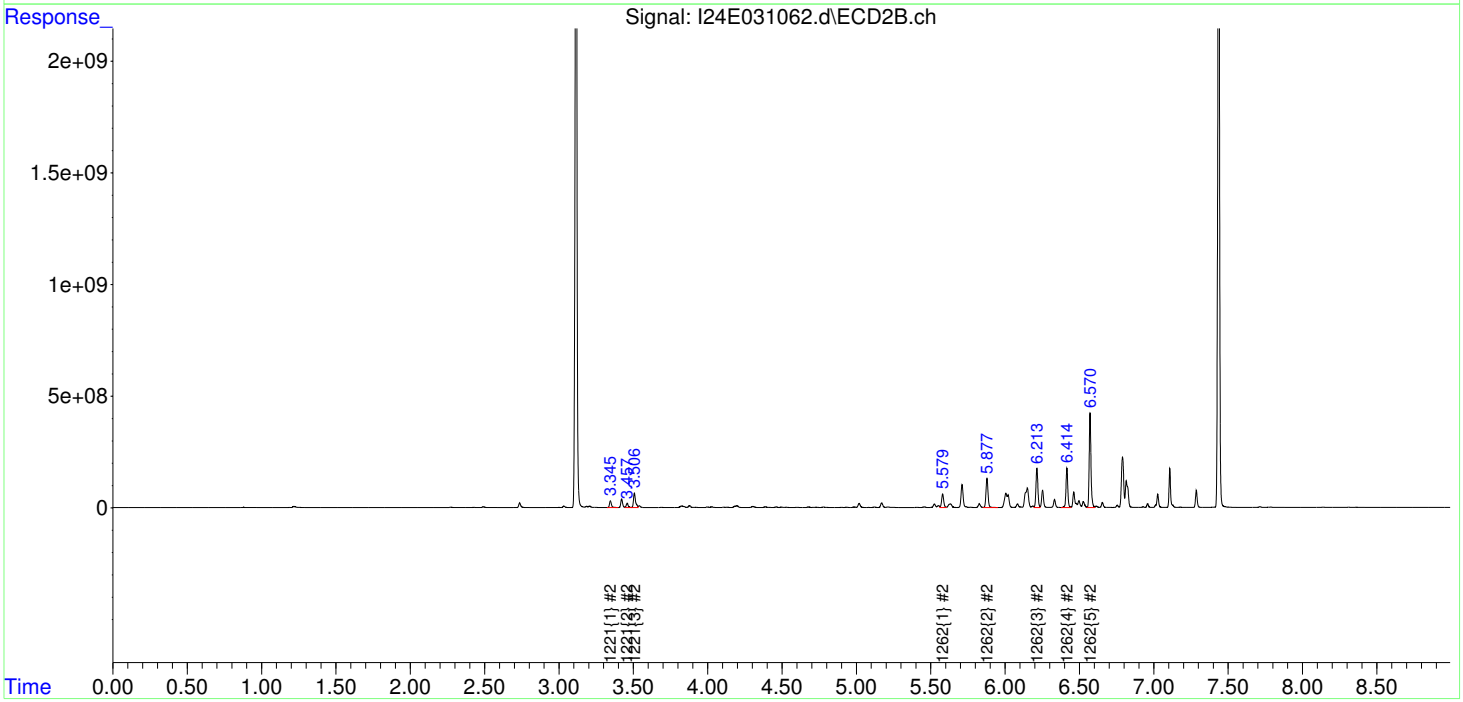
Data Path : C:\msdchem\1\data\013124\
Data File : I24E031062.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Jan 2024 7:33 pm
Operator : PJG
Sample : 1221/1262 500 Inst : ECD 9
Misc : mix[l2,l8]
ALS Vial : 62 Sample Multiplier: 1

3438

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 01 11:28:47 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\2023 Methods\9-PCB-013124C.M
Quant Title : 60/16-013124, 54-013124, 48-013124, 42-013124, 32/68-013124, 21/62-013124 2400136/13
QLast Update : Thu Feb 01 11:28:46 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





Quantitation Report (Not Reviewed)

3439

Data Path : C:\msdchem\1\data\013124\
Data File : I24E031064.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Jan 2024 7:56 pm
Operator : PJG
Sample : 1221/1262 ICV Inst : ECD 9
Misc : mix[l2,l8]
ALS Vial : 64 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 01 11:29:09 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\2023 Methods\9-PCB-013124C.M
Quant Title : 60/16-013124, 54-013124, 48-013124, 42-013124, 32/68-013124, 21/62-013124 2400136/137
QLast Update : Thu Feb 01 11:28:47 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
2) S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
3) L1	1016{1}	0.000	0.000	0	0	N.D. d	N.D. d
4) L1	1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1	1016{3}	0.000	0.000	0	0	N.D. d	N.D. d
6) L1	1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1	1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9) L7	1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7	1260{3}	0.000	0.000	0	0	N.D. d	N.D. d
11) L7	1260{4}	0.000	0.000	0	0	N.D. d	N.D. d
12) L7	1260{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\013124\
Data File : I24E031064.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Jan 2024 7:56 pm
Operator : PJG
Sample : 1221/1262 ICV Inst : ECD 9
Misc : mix[l2,l8]
ALS Vial : 64 Sample Multiplier: 1

3440

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 01 11:29:09 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\2023 Methods\9-PCB-013124C.M
Quant Title : 60/16-013124, 54-013124, 48-013124, 42-013124, 32/68-013124, 21/62-013124 2400136/137
QLast Update : Thu Feb 01 11:28:47 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	3.337	3.347	91156218	62769836	95.522	96.705
39)	L2 1221{2}	3.496	3.459	216.1E6	42108538	104.579	95.726
40)	L2 1221{3}	3.900	3.508	31698033	145.2E6	108.949	96.705
Sum	1221			339.0E6	250.1E6	309.050	289.137
Average	1221					103.017	96.379
41)	L8 1262{1}	5.504	5.579	204.3E6	138.5E6	100.553	97.738
42)	L8 1262{2}	5.845	5.878	421.4E6	262.4E6	90.151	90.429
43)	L8 1262{3}	6.145	6.213	505.5E6	362.9E6	102.108	102.654
44)	L8 1262{4}	6.319	6.415	460.5E6	345.3E6	101.808	101.711
45)	L8 1262{5}	6.521	6.570	918.3E6	700.2E6	91.134	97.318
Sum	1262			2510.0E6	1809.3E6	485.753	489.849
Average	1262					97.151	97.970

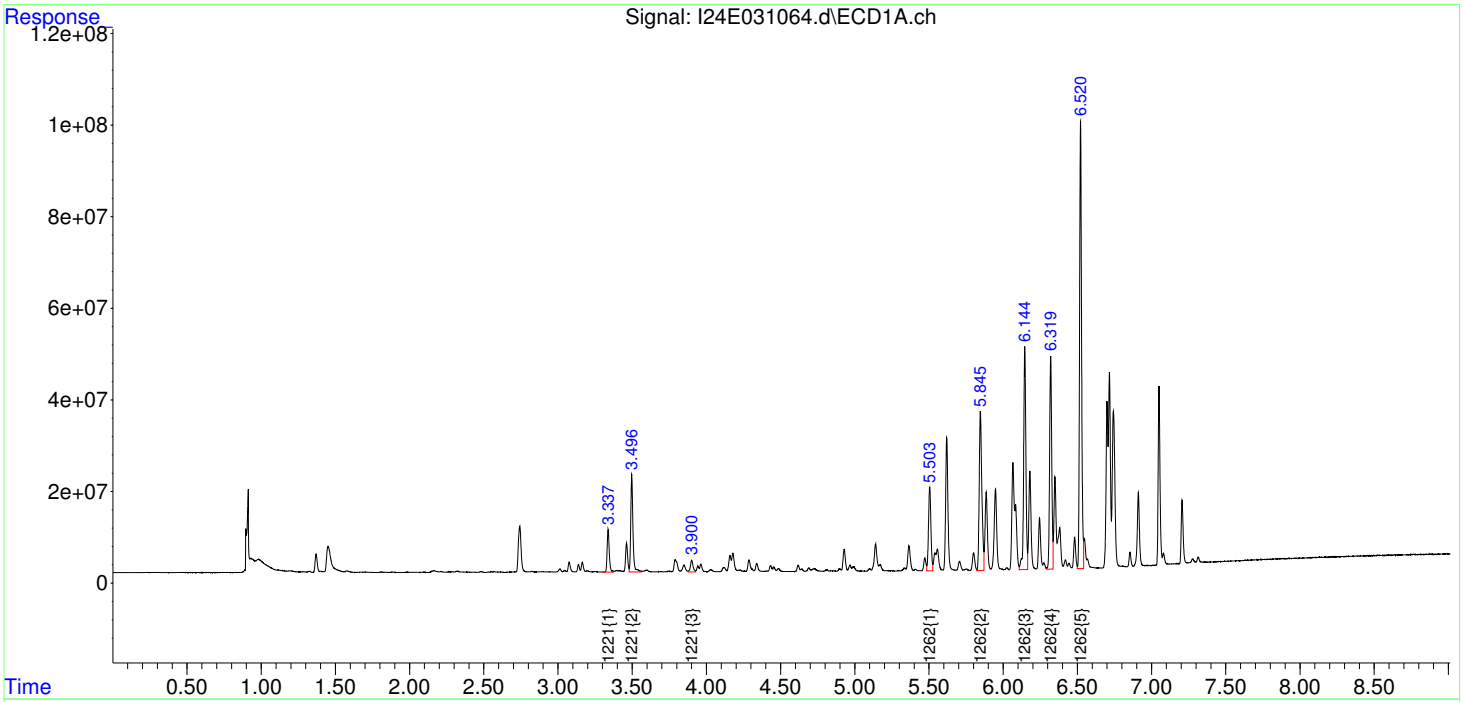
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

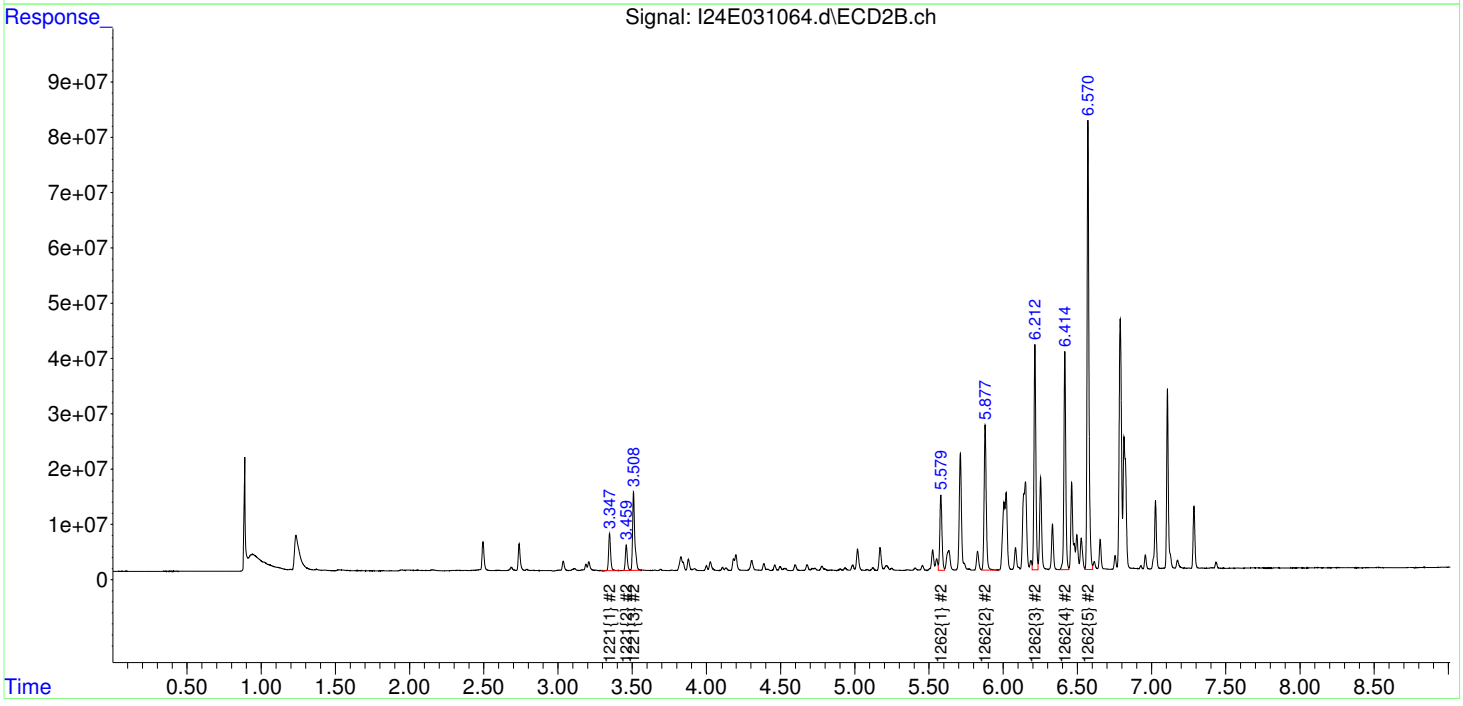
Data Path : C:\msdchem\1\data\013124\
Data File : I24E031064.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Jan 2024 7:56 pm
Operator : PJG
Sample : 1221/1262 ICV Inst : ECD 9
Misc : mix[l2,l8]
ALS Vial : 64 Sample Multiplier: 1

3441

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: Feb 01 11:29:09 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\2023 Methods\9-PCB-013124C.M
Quant Title : 60/16-013124, 54-013124, 48-013124, 42-013124, 32/68-013124, 21/62-013124 2400136/13
QLast Update : Thu Feb 01 11:28:47 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





C:\msdchem\1\data\013124\

Date	Filename	Lab ID	Sample Info
31 Jan 2024 7:31 am	I24E031001.d	ISO	
31 Jan 2024 7:44 am	I24E031002.d	ISO	
31 Jan 2024 7:55 am	I24E031003.d	ISO	
31 Jan 2024 8:07 am	I24E031004.d	1260/1016 100 23J0944	mix[s,l1,l7]
31 Jan 2024 8:19 am	I24E031005.d	1254 100 23L0189	mix[l6]
31 Jan 2024 8:31 am	I24E031006.d	1248 100 23I0425	mix[l5]
31 Jan 2024 8:43 am	I24E031007.d	1242 100 23I0180	mix[l4]
31 Jan 2024 8:54 am	I24E031008.d	1232/1268 100 23K0174	mix[l3,l9]
31 Jan 2024 9:06 am	I24E031009.d	1221/1262 100 23I0791	mix[l2,l8]
31 Jan 2024 9:18 am	I24E031010.d	ISO	
1 Feb 2024 9:22 am	I24E031067.d	ISO	
31 Jan 2024 9:30 am	I24E031011.d	1260/1016 5	mix[s,l1,l7]
1 Feb 2024 9:34 am	I24E031068.d	1260/1016 ICV	mix[s,l1,l7]
31 Jan 2024 9:42 am	I24E031012.d	1260/1016 10	mix[s,l1,l7]
1 Feb 2024 9:46 am	I24E031069.d	ISO	
31 Jan 2024 9:53 am	I24E031013.d	1260/1016 20	mix[s,l1,l7]
1 Feb 2024 9:58 am	I24E031070.d	1260/1016 ICV	mix[s,l1,l7]
31 Jan 2024 10:05 am	I24E031014.d	1260/1016 50	mix[s,l1,l7]
1 Feb 2024 10:10 am	I24E031071.d	ISO	
31 Jan 2024 10:17 am	I24E031015.d	1260/1016 100	mix[s,l1,l7]
31 Jan 2024 10:29 am	I24E031016.d	1260/1016 200	mix[s,l1,l7]
1 Feb 2024 10:38 am	I24E031072.d	B361544-SRM1	mix[s,l7]
31 Jan 2024 10:41 am	I24E031017.d	1260/1016 500	mix[s,l1,l7]
31 Jan 2024 10:53 am	I24E031018.d	ISO	
31 Jan 2024 11:04 am	I24E031019.d	1260/1016 ICV	mix[s,l1,l7]
31 Jan 2024 11:16 am	I24E031020.d	ISO	
1 Feb 2024 11:23 am	I24E031073.d	ISO	
31 Jan 2024 11:28 am	I24E031021.d	1254 10	mix[l6]
1 Feb 2024 11:35 am	I24E031074.d	1254 ICV	mix[l6]
31 Jan 2024 11:40 am	I24E031022.d	1254 20	mix[l6]
31 Jan 2024 11:52 am	I24E031023.d	1254 50	mix[l6]
31 Jan 2024 12:03 pm	I24E031024.d	1254 100	mix[l6]
31 Jan 2024 12:15 pm	I24E031025.d	1254 200	mix[l6]
31 Jan 2024 12:27 pm	I24E031026.d	1254 500	mix[l6]
31 Jan 2024 12:39 pm	I24E031027.d	ISO	
31 Jan 2024 12:51 pm	I24E031028.d	1254 ICV	mix[l6]
31 Jan 2024 1:02 pm	I24E031029.d	ISO	
31 Jan 2024 1:14 pm	I24E031030.d	1248 10	mix[l5]
31 Jan 2024 1:26 pm	I24E031031.d	1248 20	mix[l5]
31 Jan 2024 1:38 pm	I24E031032.d	1248 50	mix[l5]
31 Jan 2024 1:50 pm	I24E031033.d	1248 100	mix[l5]
31 Jan 2024 2:02 pm	I24E031034.d	1248 200	mix[l5]
31 Jan 2024 2:14 pm	I24E031035.d	1248 500	mix[l5]
31 Jan 2024 2:25 pm	I24E031036.d	ISO	
31 Jan 2024 2:37 pm	I24E031037.d	1248 ICV	mix[l5]
31 Jan 2024 2:49 pm	I24E031038.d	ISO	
31 Jan 2024 3:01 pm	I24E031039.d	1242 10	mix[l4]
31 Jan 2024 3:13 pm	I24E031040.d	1242 20	mix[l4]
31 Jan 2024 3:24 pm	I24E031041.d	1242 50	mix[l4]
31 Jan 2024 3:36 pm	I24E031042.d	1242 100	mix[l4]
31 Jan 2024 3:48 pm	I24E031043.d	1242 200	mix[l4]
31 Jan 2024 4:00 pm	I24E031044.d	1242 500	mix[l4]
31 Jan 2024 4:12 pm	I24E031045.d	ISO	
31 Jan 2024 4:23 pm	I24E031046.d	1242 ICV	mix[l4]
31 Jan 2024 4:35 pm	I24E031047.d	ISO	
31 Jan 2024 4:47 pm	I24E031048.d	1232/1268 10	mix[l3,l9]
31 Jan 2024 4:59 pm	I24E031049.d	1232/1268 20	mix[l3,l9]
31 Jan 2024 5:11 pm	I24E031050.d	1232/1268 50	mix[l3,l9]
31 Jan 2024 5:22 pm	I24E031051.d	1232/1268 100	mix[l3,l9]
31 Jan 2024 5:34 pm	I24E031052.d	1232/1268 200	mix[l3,l9]
31 Jan 2024 5:46 pm	I24E031053.d	1232/1268 500	mix[l3,l9]
31 Jan 2024 5:58 pm	I24E031054.d	ISO	
31 Jan 2024 6:10 pm	I24E031055.d	1232/1268 ICV	mix[l3,l9]
31 Jan 2024 6:21 pm	I24E031056.d	ISO	

C:\msdchem\1\data\013124\

Date	Filename	Lab ID	Sample Info
31 Jan 2024 6:33 pm	I24E031057.d	1221/1262 10	mix[l2,l8]
31 Jan 2024 6:45 pm	I24E031058.d	1221/1262 20	mix[l2,l8]
31 Jan 2024 6:57 pm	I24E031059.d	1221/1262 50	mix[l2,l8]
31 Jan 2024 7:09 pm	I24E031060.d	1221/1262 100	mix[l2,l8]
31 Jan 2024 7:21 pm	I24E031061.d	1221/1262 200	mix[l2,l8]
31 Jan 2024 7:33 pm	I24E031062.d	1221/1262 500	mix[l2,l8]
31 Jan 2024 7:45 pm	I24E031063.d	ISO	
31 Jan 2024 7:56 pm	I24E031064.d	1221/1262 ICV	mix[l2,l8]
31 Jan 2024 8:08 pm	I24E031065.d	ISO	
31 Jan 2024 8:20 pm	I24E031066.d	B361544-SRM1	mix[s,l7]

C:\msdchem\1\data\022724\

Date	Filename	Lab ID	Sample Info
27 Feb 2024 8:46 am	I24E058001.d	ISO	
27 Feb 2024 8:58 am	I24E058002.d	ISO	
27 Feb 2024 9:10 am	I24E058003.d	ISO	
27 Feb 2024 9:22 am	I24E058004.d	1260/1016 100 23J0944	mix[s,l1,l7]
27 Feb 2024 9:33 am	I24E058005.d	1254 100 23L0189	mix[l6]
27 Feb 2024 9:45 am	I24E058006.d	1248 100 23I0425	mix[l5]
27 Feb 2024 9:57 am	I24E058007.d	1242 100 23I0180	mix[l4]
27 Feb 2024 10:09 am	I24E058008.d	1232/1268 100 23K0174	mix[l3,l9]
27 Feb 2024 10:21 am	I24E058009.d	1221/1262 100 23I0791	mix[l2,l8]
27 Feb 2024 10:32 am	I24E058010.d	B366877-BLK1@TBA	
27 Feb 2024 10:44 am	I24E058011.d	B366877-BS1@TBA	mix[s,l1,l7]
27 Feb 2024 10:56 am	I24E058012.d	B366877-BSD1@TBA	mix[s,l1,l7]
27 Feb 2024 11:08 am	I24E058013.d	24B2574-01@4X TBA	
27 Feb 2024 11:25 am	I24E058014.d	24B2574-02@4X TBA	
27 Feb 2024 11:42 am	I24E058015.d	ISO	
27 Feb 2024 11:58 am	I24E058016.d	ISO	
27 Feb 2024 12:15 pm	I24E058017.d	ISO	
27 Feb 2024 12:32 pm	I24E058018.d	1260/1016 100	mix[s,l1,l7]
27 Feb 2024 12:48 pm	I24E058019.d	ISO	
27 Feb 2024 1:00 pm	I24E058020.d	1248 10	mix[l5]
27 Feb 2024 1:12 pm	I24E058021.d	1248 20	mix[l5]
27 Feb 2024 1:24 pm	I24E058022.d	1248 50	mix[l5]
27 Feb 2024 1:35 pm	I24E058023.d	1248 100	mix[l5]
27 Feb 2024 1:47 pm	I24E058024.d	1248 200	mix[l5]
27 Feb 2024 1:59 pm	I24E058025.d	1248 500	mix[l5]
27 Feb 2024 2:11 pm	I24E058026.d	ISO	
27 Feb 2024 2:23 pm	I24E058027.d	1248 ICV	mix[l5]
27 Feb 2024 2:34 pm	I24E058028.d	ISO	
27 Feb 2024 2:46 pm	I24E058029.d	1242 10	mix[l4]
27 Feb 2024 2:58 pm	I24E058030.d	1242 20	mix[l4]
27 Feb 2024 3:10 pm	I24E058031.d	1242 50	mix[l4]
27 Feb 2024 3:22 pm	I24E058032.d	1242 100	mix[l4]
27 Feb 2024 3:34 pm	I24E058033.d	1242 200	mix[l4]
27 Feb 2024 3:45 pm	I24E058034.d	1242 500	mix[l4]
27 Feb 2024 3:57 pm	I24E058035.d	ISO	
27 Feb 2024 4:09 pm	I24E058036.d	1242 ICV	mix[l4]
27 Feb 2024 4:21 pm	I24E058037.d	ISO	
27 Feb 2024 4:33 pm	I24E058038.d	B366886-SRM1	
27 Feb 2024 4:50 pm	I24E058039.d	B366886-SRM2	

C:\msdchem\1\data\042624\

Date	Filename	Lab ID	Sample Info
26 Apr 2024 8:12 am	I24E117001.d	ISO	
26 Apr 2024 8:24 am	I24E117002.d	ISO	
26 Apr 2024 8:36 am	I24E117003.d	ISO	
26 Apr 2024 8:49 am	I24E117004.d	1260/1016 100 24B0725	mix[s,l1,l7]
26 Apr 2024 9:01 am	I24E117005.d	1254 100 23L0189	mix[l6]
26 Apr 2024 9:13 am	I24E117006.d	1248 100 24B0832	mix[l5]
26 Apr 2024 9:25 am	I24E117007.d	1242 100 24B0852	mix[l4]
26 Apr 2024 9:37 am	I24E117008.d	1232/1268 100 24C0355	mix[l3,l9]
26 Apr 2024 9:49 am	I24E117009.d	1221/1262 100 23L0791	mix[l2,l8]
26 Apr 2024 10:42 am	I24E117010.d	ISO	
26 Apr 2024 10:54 am	I24E117011.d	1260/1016 5	mix[s,l1,l7]
26 Apr 2024 11:06 am	I24E117012.d	1260/1016 10	mix[s,l1,l7]
26 Apr 2024 11:18 am	I24E117013.d	1260/1016 20	mix[s,l1,l7]
26 Apr 2024 11:30 am	I24E117014.d	1260/1016 50	mix[s,l1,l7]
26 Apr 2024 11:42 am	I24E117015.d	1260/1016 100	mix[s,l1,l7]
26 Apr 2024 11:55 am	I24E117016.d	1260/1016 200	mix[s,l1,l7]
26 Apr 2024 12:07 pm	I24E117017.d	1260/1016 500	mix[s,l1,l7]
26 Apr 2024 12:19 pm	I24E117018.d	ISO	
26 Apr 2024 12:31 pm	I24E117019.d	1260/1016 ICV	mix[s,l1,l7]
26 Apr 2024 12:42 pm	I24E117020.d	ISO	
26 Apr 2024 12:55 pm	I24E117021.d	1254 10	mix[l6]
26 Apr 2024 1:07 pm	I24E117022.d	1254 20	mix[l6]
26 Apr 2024 1:18 pm	I24E117023.d	1254 50	mix[l6]
26 Apr 2024 1:31 pm	I24E117024.d	1254 100	mix[l6]
26 Apr 2024 1:42 pm	I24E117025.d	1254 200	mix[l6]
26 Apr 2024 1:54 pm	I24E117026.d	1254 500	mix[l6]
26 Apr 2024 2:06 pm	I24E117027.d	ISO	
26 Apr 2024 2:18 pm	I24E117028.d	1254 ICV	mix[l6]
26 Apr 2024 2:30 pm	I24E117029.d	ISO	
26 Apr 2024 2:41 pm	I24E117030.d	1248 10	mix[l5]
26 Apr 2024 2:53 pm	I24E117031.d	1248 20	mix[l5]
26 Apr 2024 3:05 pm	I24E117032.d	1248 50	mix[l5]
26 Apr 2024 3:17 pm	I24E117033.d	1248 100	mix[l5]
26 Apr 2024 3:30 pm	I24E117034.d	1248 200	mix[l5]
26 Apr 2024 3:41 pm	I24E117035.d	1248 500	mix[l5]
26 Apr 2024 3:53 pm	I24E117036.d	ISO	
26 Apr 2024 4:06 pm	I24E117037.d	1248 ICV	mix[l5]
26 Apr 2024 4:17 pm	I24E117038.d	ISO	
26 Apr 2024 4:29 pm	I24E117039.d	B361544-SRM1	mix[s,l7]
28 Apr 2024 9:23 am	I24E117040.d	ISO	
28 Apr 2024 9:35 am	I24E117041.d	1260/1016 ICV	mix[s,l1,l7]
28 Apr 2024 9:46 am	I24E117042.d	ISO	
28 Apr 2024 9:58 am	I24E117043.d	1260/1016 ICV	mix[s,l1,l7]
28 Apr 2024 10:10 am	I24E117044.d	ISO	
28 Apr 2024 10:22 am	I24E117045.d	B361544-SRM1	mix[s,l7]

7 - FORM VII

INITIAL CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ECD 9	Calibration:	2400245
Lab File ID:	I24E031055.d	Calibration Date:	02/27/24 16:21
Sequence:	S099889	Injection Date:	01/31/24
Lab Sample ID:	S099889-ICV1	Injection Time:	18:10

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)	
Aroclor-1232	A	100	91.6				-8.4	20	
Aroclor-1232 (1)	A	100	90.3	660552.5	596300.1		-9.7	20	
Aroclor-1232 (2)	A	100	91.2	1417537	1293000		-8.8	20	
Aroclor-1232 (3)	A	100	90.4	1006036	909317.4		-9.6	20	
Aroclor-1232 (4)	A	100	90.1	676180.2	609363.9		-9.9	20	
Aroclor-1232 (5)	A	100	96.0	984050.3	945162.2		-4.0	20	
Aroclor-1232 [2C]	A	100	90.3				-9.7	20	
Aroclor-1232 (1) [2C]	A	100	87.9	470655.7	413909.4		-12.1	20	
Aroclor-1232 (2) [2C]	A	100	93.7	548290.7	513818.8		-6.3	20	
Aroclor-1232 (3) [2C]	A	100	89.6	709562.5	635582.3		-10.4	20	
Aroclor-1232 (4) [2C]	A	100	90.6	732572.7	663751.2		-9.4	20	
Aroclor-1232 (5) [2C]	A	100	89.5	877783	785432.2		-10.5	20	
Aroclor-1268	A	100	95.4				-4.6	20	
Aroclor-1268 (1)	A	100	88.6	1.051463E+07	9316000		-11.4	20	
Aroclor-1268 (2)	A	100	89.6	1.070865E+07	9593000		-10.4	20	
Aroclor-1268 (3)	A	100	79.6	9613967	7654000		-20.4	20	*
Aroclor-1268 (4)	A	100	124	2924974	3630000		24.1	20	*
Aroclor-1268 (5)	A	100	95.1	2.47166E+07	2.3494E+07		-4.9	20	
Aroclor-1268 [2C]	A	100	98.0				-2.0	20	
Aroclor-1268 (1) [2C]	A	100	90.4	8220358	7433000		-9.6	20	
Aroclor-1268 (2) [2C]	A	100	91.9	8031317	7380000		-8.1	20	
Aroclor-1268 (3) [2C]	A	100	81.0	7447855	6034000		-19.0	20	
Aroclor-1268 (4) [2C]	A	100	124	2132214	2653000		24.4	20	*
Aroclor-1268 (5) [2C]	A	100	102	2.028208E+07	2.0738E+07		2.2	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

7 - FORM VII

INITIAL CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ECD 9	Calibration:	2400245
Lab File ID:	I24E031064.d	Calibration Date:	02/27/24 16:21
Sequence:	S099890	Injection Date:	01/31/24
Lab Sample ID:	S099890-ICV1	Injection Time:	19:56

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Aroclor-1221	A	100	103				3.0	20
Aroclor-1221 (1)	A	100	95.5	954285.9	911562.2		-4.5	20
Aroclor-1221 (2)	A	100	105	2066760	2161000		4.6	20
Aroclor-1221 (3)	A	100	109	290941.3	316980.3		8.9	20
Aroclor-1221 (4)	A	100	0.00					20
Aroclor-1221 (5)	A	100	0.00					20
Aroclor-1221 [2C]	A	100	96.4				-3.6	20
Aroclor-1221 (1) [2C]	A	100	96.7	649101.3	627698.4		-3.3	20
Aroclor-1221 (2) [2C]	A	100	95.7	439877.9	421085.4		-4.3	20
Aroclor-1221 (3) [2C]	A	100	96.7	1501333	1452000		-3.3	20
Aroclor-1221 (4) [2C]	A	100	0.00					20
Aroclor-1221 (5) [2C]	A	100	0.00					20
Aroclor-1262	A	100	97.2				-2.8	20
Aroclor-1262 (1)	A	100	101	2031362	2043000		0.6	20
Aroclor-1262 (2)	A	100	90.2	4674660	4214000		-9.8	20
Aroclor-1262 (3)	A	100	102	4951489	5055000		2.1	20
Aroclor-1262 (4)	A	100	102	4523235	4605000		1.8	20
Aroclor-1262 (5)	A	100	91.1	1.00764E+07	9183000		-8.9	20
Aroclor-1262 [2C]	A	100	98.0				-2.0	20
Aroclor-1262 (1) [2C]	A	100	97.7	1417383	1385000		-2.3	20
Aroclor-1262 (2) [2C]	A	100	90.4	2901873	2624000		-9.6	20
Aroclor-1262 (3) [2C]	A	100	103	3535366	3629000		2.7	20
Aroclor-1262 (4) [2C]	A	100	102	3394967	3453000		1.7	20
Aroclor-1262 (5) [2C]	A	100	97.3	7195001	7002000		-2.7	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

7 - FORM VII

INITIAL CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ECD 9	Calibration:	2400245
Lab File ID:	I24E058036.d	Calibration Date:	02/27/24 16:21
Sequence:	S100993	Injection Date:	02/27/24
Lab Sample ID:	S100993-ICV1	Injection Time:	16:09

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Aroclor-1242	A	100	89.3				-10.7	20
Aroclor-1242 (1)	A	100	89.7	1073910	963009.4		-10.3	20
Aroclor-1242 (2)	A	100	89.3	3277126	2927000		-10.7	20
Aroclor-1242 (3)	A	100	89.7	1498637	1345000		-10.3	20
Aroclor-1242 (4)	A	100	86.1	1832958	1578000		-13.9	20
Aroclor-1242 (5)	A	100	91.8	1865539	1713000		-8.2	20
Aroclor-1242 [2C]	A	100	89.5				-10.5	20
Aroclor-1242 (1) [2C]	A	100	88.5	739267.8	654391.5		-11.5	20
Aroclor-1242 (2) [2C]	A	100	90.8	2257843	2050000		-9.2	20
Aroclor-1242 (3) [2C]	A	100	90.8	903969.3	821023.6		-9.2	20
Aroclor-1242 (4) [2C]	A	100	86.5	1251877	1082000		-13.5	20
Aroclor-1242 (5) [2C]	A	100	90.7	1241367	1127000		-9.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

7 - FORM VII

INITIAL CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ECD 9	Calibration:	2400478
Lab File ID:	I24E117043.d	Calibration Date:	04/28/24 08:52
Sequence:	S103761	Injection Date:	04/28/24
Lab Sample ID:	S103761-ICV1	Injection Time:	09:58

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Aroclor-1016	A	100	101				0.7	20
Aroclor-1016 [2C]	A	100	97.2				-2.8	20
Aroclor-1260	A	100	99.5				-0.5	20
Aroclor-1260 [2C]	A	100	93.4				-6.6	20
Decachlorobiphenyl	A	100	98.4	5.550539E+07	5.4619E+07		-1.6	
Decachlorobiphenyl [2C]	A	100	99.0	4.98069E+07	4.9298E+07		-1.0	
Tetrachloro-m-xylene	A	100	105	6.567614E+07	6.9002E+07		5.1	
Tetrachloro-m-xylene [2C]	A	100	106	5.785597E+07	6.1402E+07		6.1	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

7 - FORM VII

INITIAL CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ECD 9	Calibration:	2400478
Lab File ID:	I24E117028.d	Calibration Date:	04/28/24 08:52
Sequence:	S103762	Injection Date:	04/26/24
Lab Sample ID:	S103762-ICV1	Injection Time:	14:18

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Aroclor-1254	A	100	93.5				-6.5	20
Aroclor-1254 (1)	A	100	91.4	2995321	2738000		-8.6	20
Aroclor-1254 (2)	A	100	92.4	3278462	3030000		-7.6	20
Aroclor-1254 (3)	A	100	95.1	5364441	5102000		-4.9	20
Aroclor-1254 (4)	A	100	94.5	4152647	3925000		-5.5	20
Aroclor-1254 (5)	A	100	93.9	5533844	5195000		-6.1	20
Aroclor-1254 [2C]	A	100	92.2				-7.8	20
Aroclor-1254 (1) [2C]	A	100	92.5	2636827	2439000		-7.5	20
Aroclor-1254 (2) [2C]	A	100	91.5	3035771	2777000		-8.5	20
Aroclor-1254 (3) [2C]	A	100	92.2	2445784	2256000		-7.8	20
Aroclor-1254 (4) [2C]	A	100	95.1	4328472	4118000		-4.9	20
Aroclor-1254 (5) [2C]	A	100	89.9	4788214	4306000		-10.1	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

7 - FORM VII

INITIAL CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ECD 9	Calibration:	2400478
Lab File ID:	I24E117037.d	Calibration Date:	04/28/24 08:52
Sequence:	S103763	Injection Date:	04/26/24
Lab Sample ID:	S103763-ICV1	Injection Time:	16:06

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Aroclor-1248	A	100	101				1.1	20
Aroclor-1248 (1)	A	100	100	1843481	1849000		0.3	20
Aroclor-1248 (2)	A	100	101	2562572	2595000		1.3	20
Aroclor-1248 (3)	A	100	101	1766225	1785000		1.1	20
Aroclor-1248 (4)	A	100	102	2962043	3010000		1.6	20
Aroclor-1248 (5)	A	100	101	2859343	2899000		1.4	20
Aroclor-1248 [2C]	A	100	98.7				-1.3	20
Aroclor-1248 (1) [2C]	A	100	97.9	1579928	1547000		-2.1	20
Aroclor-1248 (2) [2C]	A	100	99.7	2033274	2027000		-0.3	20
Aroclor-1248 (3) [2C]	A	100	99.6	2300536	2292000		-0.4	20
Aroclor-1248 (4) [2C]	A	100	98.2	2399707	2356000		-1.8	20
Aroclor-1248 (5) [2C]	A	100	98.2	2791366	2740000		-1.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ECD 9	Calibration:	2400478
Lab File ID:	I24E132004.d	Calibration Date:	04/28/24 08:52
Sequence:	S104387	Injection Date:	05/11/24
Lab Sample ID:	S104387-CCV1	Injection Time:	08:33

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	100	101				0.6	20
Aroclor-1016 [2C]	A	100	102				2.1	20
Aroclor-1260	A	100	95.7				-4.3	20
Aroclor-1260 [2C]	A	100	93.5				-6.5	20
Decachlorobiphenyl	A	100	89.8	5.550539E+07	4.9869E+07		-10.2	
Decachlorobiphenyl [2C]	A	100	91.5	4.98069E+07	4.5564E+07		-8.5	
Tetrachloro-m-xylene	A	100	91.7	6.567614E+07	6.0208E+07		-8.3	
Tetrachloro-m-xylene [2C]	A	100	105	5.785597E+07	6.0828E+07		5.1	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Quantitation Report (QT Reviewed)

3453

Data Path : C:\msdchem\1\data\051124\
Data File : I24E132004.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 May 2024 8:33 am
Operator : PJG
Sample : 1260/1016 100 24D0721 Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 11 09:45:16 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	3.074	2.995	6020.8E6	6082.8E6	91.674	105.137
2) S	Decachlor...	7.212	7.316	4986.9E6	4556.4E6	89.844	91.483
	Target Compounds						
3) L1	1016{1}	3.811	3.865	94860100	76244461	99.872	100.750
4) L1	1016{2}	4.044	4.061	419.3E6	341.3E6	102.782	105.451
5) L1	1016{3}	4.150	4.247	298.5E6	133.5E6	101.101	102.359
6) L1	1016{4}	4.480	4.535	212.3E6	170.6E6	98.540	101.133
7) L1	1016{5}	4.550	4.634	144.8E6	159.9E6	100.502	100.991
Sum	1016			1169.7E6	881.5E6	502.797	510.684
Average	1016					100.559	102.137
8) L7	1260{1}	5.476	5.559	415.4E6	329.8E6	99.109	95.564
9) L7	1260{2}	5.704	5.730	637.2E6	377.0E6	102.538	93.500
10) L7	1260{3}	6.019	6.081	371.1E6	275.6E6	93.027	91.150
11) L7	1260{4}	6.201	6.289	387.8E6	322.2E6	96.221	94.399
12) L7	1260{5}	6.409	6.451	739.7E6	670.1E6	87.542	92.936
Sum	1260			2551.1E6	1974.7E6	478.436	467.549
Average	1260					95.687	93.510
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\051124\
Data File : I24E132004.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 May 2024 8:33 am
Operator : PJG
Sample : 1260/1016 100 24D0721 Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 4 Sample Multiplier: 1

3454

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 11 09:45:16 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40)	L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D. d	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

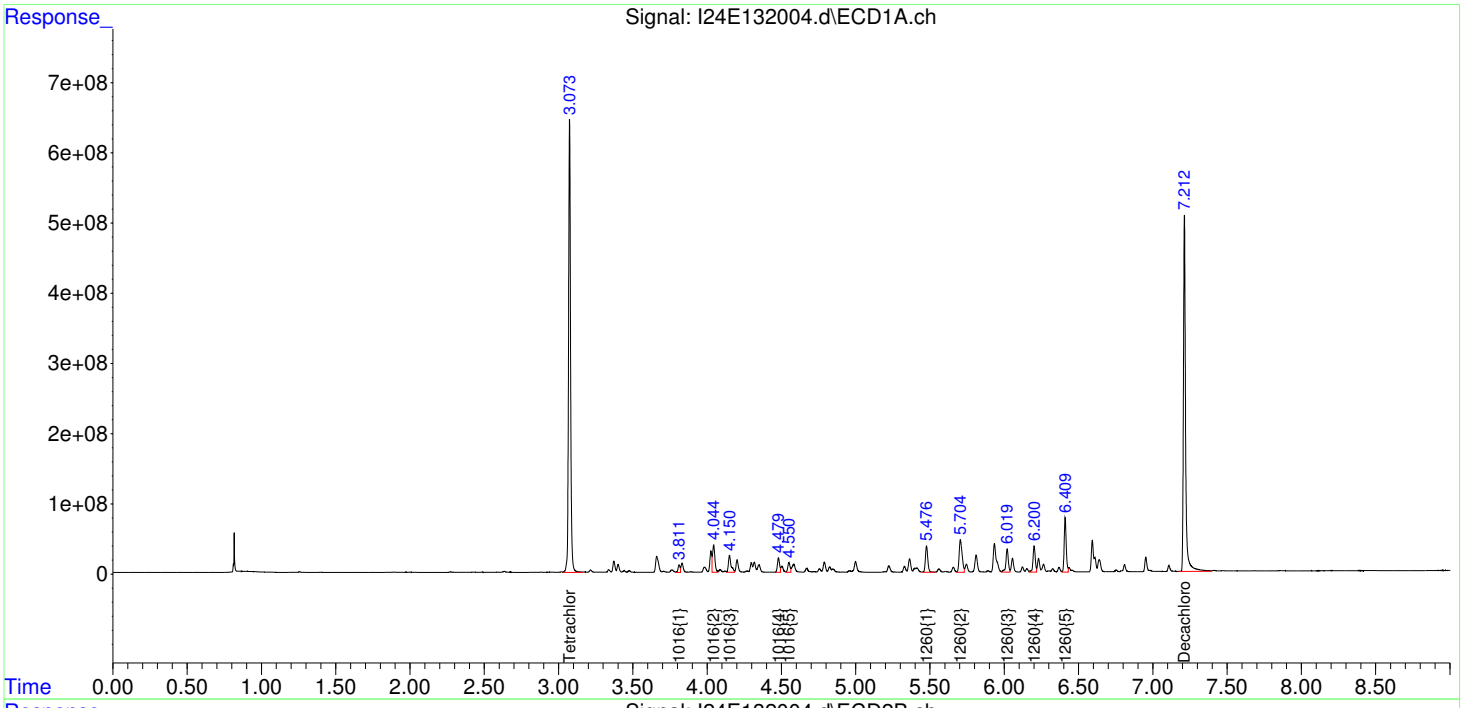
Quantitation Report (QT Reviewed)

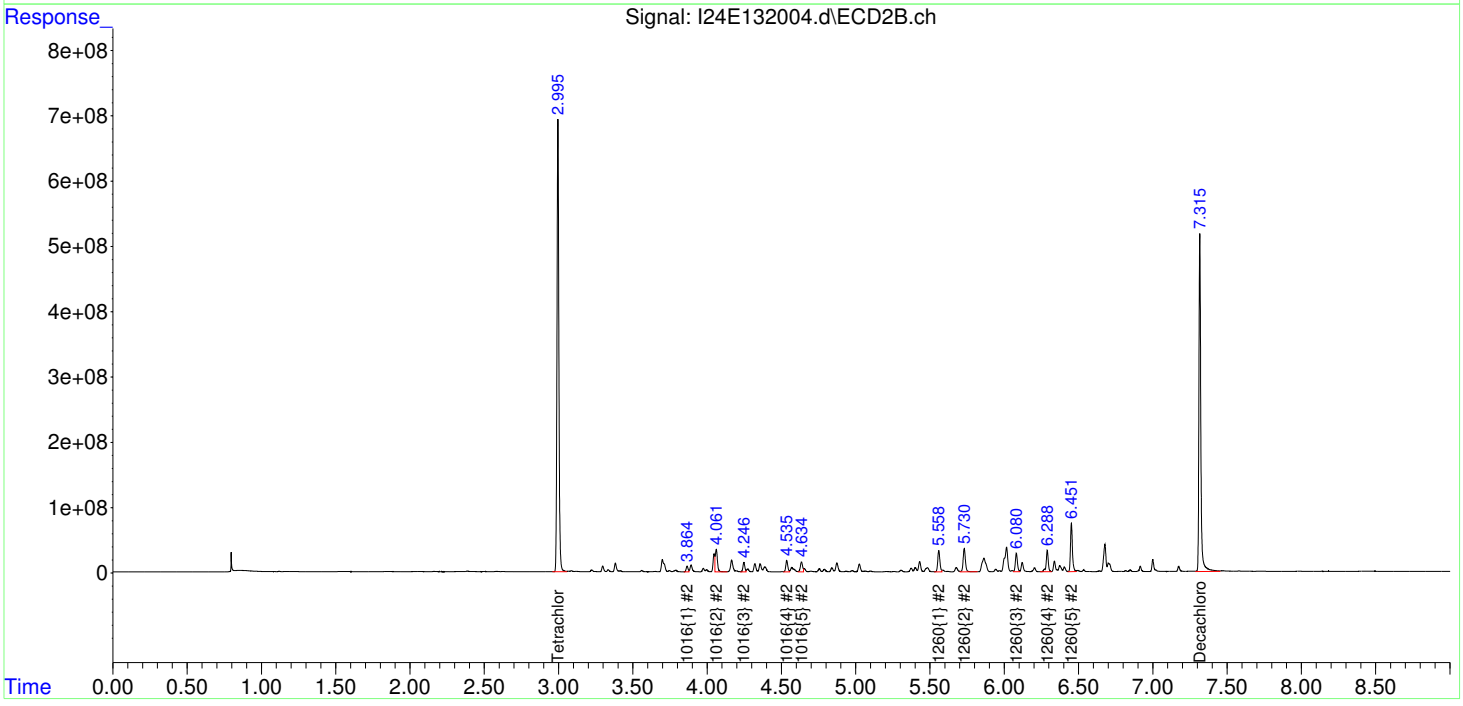
Data Path : C:\msdchem\1\data\051124\
Data File : I24E132004.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 May 2024 8:33 am
Operator : PJG
Sample : 1260/1016 100 24D0721 Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 4 Sample Multiplier: 1

3455

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 11 09:45:16 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ECD 9	Calibration:	2400478
Lab File ID:	I24E132005.d	Calibration Date:	04/28/24 08:52
Sequence:	S104387	Injection Date:	05/11/24
Lab Sample ID:	S104387-CCV2	Injection Time:	08:45

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1254	A	100	97.4				-2.6	20
Aroclor-1254 [2C]	A	100	95.3				-4.7	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051124\
Data File : I24E132005.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 May 2024 8:45 am
Operator : PJG
Sample : 1254 100 23L0189 Inst : ECD 9
Misc : mix[l6]
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 11 09:45:18 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
2) S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
3) L1	1016{1}	0.000	0.000	0	0	N.D. d	N.D. d
4) L1	1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1	1016{3}	0.000	0.000	0	0	N.D. d	N.D. d
6) L1	1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1	1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9) L7	1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7	1260{3}	0.000	0.000	0	0	N.D. d	N.D. d
11) L7	1260{4}	0.000	0.000	0	0	N.D. d	N.D. d
12) L7	1260{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13) L6	1254{1}	4.788	4.872	288.0E6	253.5E6	96.142	96.130
14) L6	1254{2}	5.227	5.024	316.4E6	289.1E6	96.510	95.227
15) L6	1254{3}	5.327	5.306	517.5E6	232.6E6	96.467	95.105
16) L6	1254{4}	5.556	5.401	404.6E6	415.4E6	97.434	95.957
17) L6	1254{5}	5.934	6.015	554.5E6	450.1E6	100.200	93.998
Sum	1254			2080.9E6	1640.7E6	486.753	476.417
Average	1254					97.351	95.283
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\051124\
Data File : I24E132005.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 May 2024 8:45 am
Operator : PJG
Sample : 1254 100 23L0189 Inst : ECD 9
Misc : mix[l6]
ALS Vial : 5 Sample Multiplier: 1

3458

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 11 09:45:18 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D.
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D.
40)	L2 1221{3}	0.000	0.000	0	0	N.D.	N.D. d
	Sum 1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D. d	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

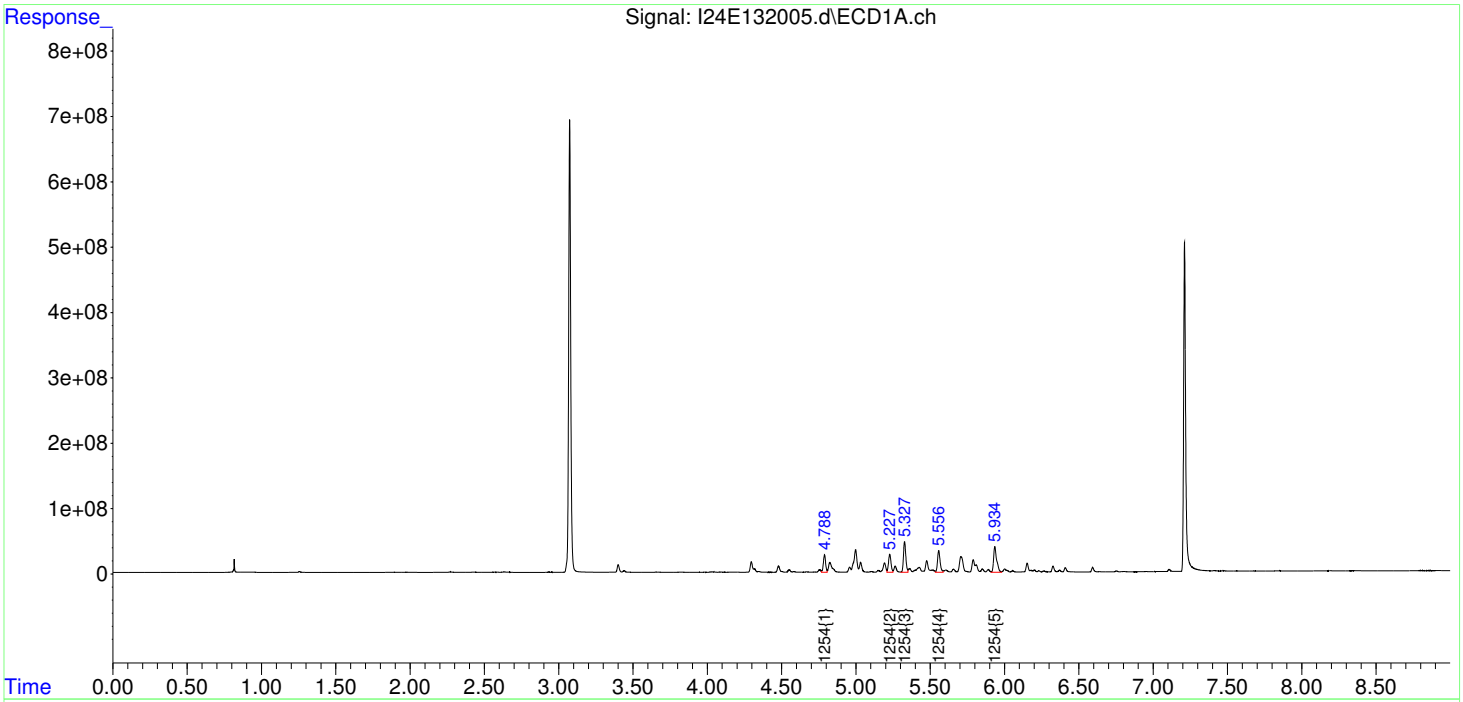
Quantitation Report (QT Reviewed)

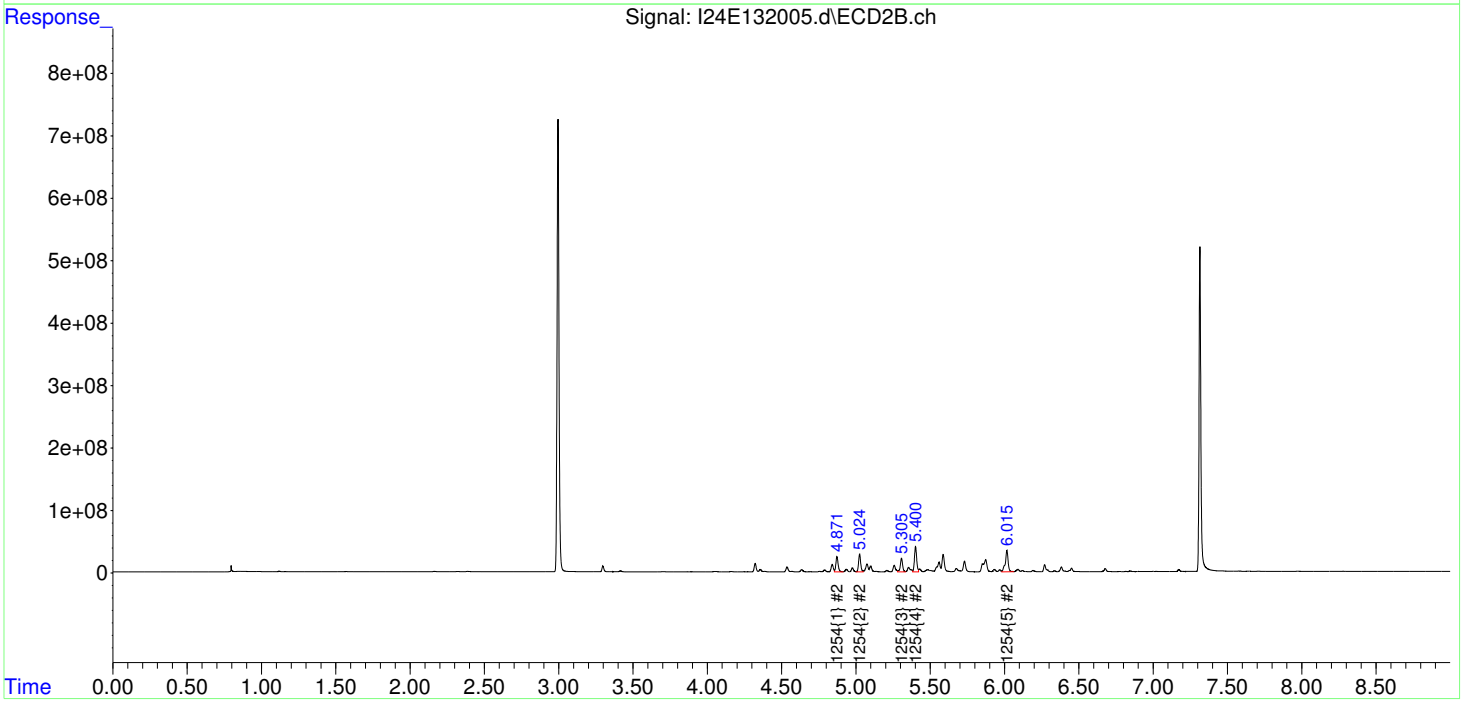
3459

Data Path : C:\msdchem\1\data\051124\
Data File : I24E132005.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 May 2024 8:45 am
Operator : PJG
Sample : 1254 100 23L0189 Inst : ECD 9
Misc : mix[l6]
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 11 09:45:18 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ECD 9	Calibration:	2400478
Lab File ID:	I24E132006.d	Calibration Date:	04/28/24 08:52
Sequence:	S104387	Injection Date:	05/11/24
Lab Sample ID:	S104387-CCV3	Injection Time:	08:56

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1248	A	100	101				0.7	20
Aroclor-1248 [2C]	A	100	99.5				-0.5	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051124\
Data File : I24E132006.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 May 2024 8:56 am
Operator : PJG
Sample : 1248 100 24B0832 Inst : ECD 9
Misc : mix[l5]
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 11 09:45:20 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
2) S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
3) L1	1016{1}	0.000	0.000	0	0	N.D. d	N.D. d
4) L1	1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1	1016{3}	0.000	0.000	0	0	N.D. d	N.D. d
6) L1	1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1	1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9) L7	1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7	1260{3}	0.000	0.000	0	0	N.D. d	N.D. d
11) L7	1260{4}	0.000	0.000	0	0	N.D. d	N.D. d
12) L7	1260{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	4.296	4.322	178.8E6	154.8E6	96.964	97.957
19) L5	1248{2}	4.479	4.536	259.8E6	203.9E6	101.386	100.289
20) L5	1248{3}	4.550	4.635	179.9E6	229.0E6	101.869	99.519
21) L5	1248{4}	4.823	4.840	306.6E6	239.0E6	103.529	99.572
22) L5	1248{5}	4.848	4.877	285.6E6	279.0E6	99.906	99.947
Sum	1248			1210.8E6	1105.6E6	503.654	497.283
Average	1248					100.731	99.457
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\051124\
Data File : I24E132006.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 May 2024 8:56 am
Operator : PJG
Sample : 1248 100 24B0832 Inst : ECD 9
Misc : mix[l5]
ALS Vial : 6 Sample Multiplier: 1

3462

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 11 09:45:20 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40)	L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D.	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

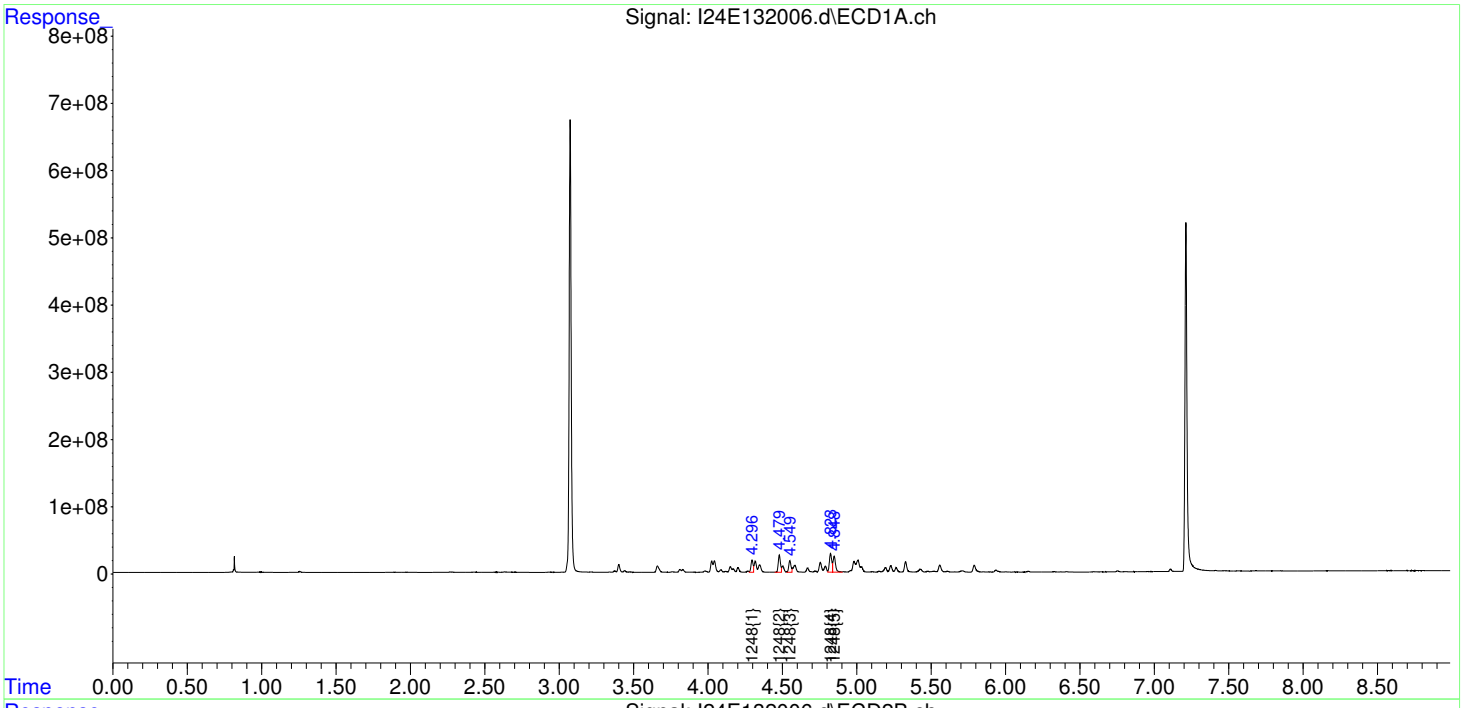
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

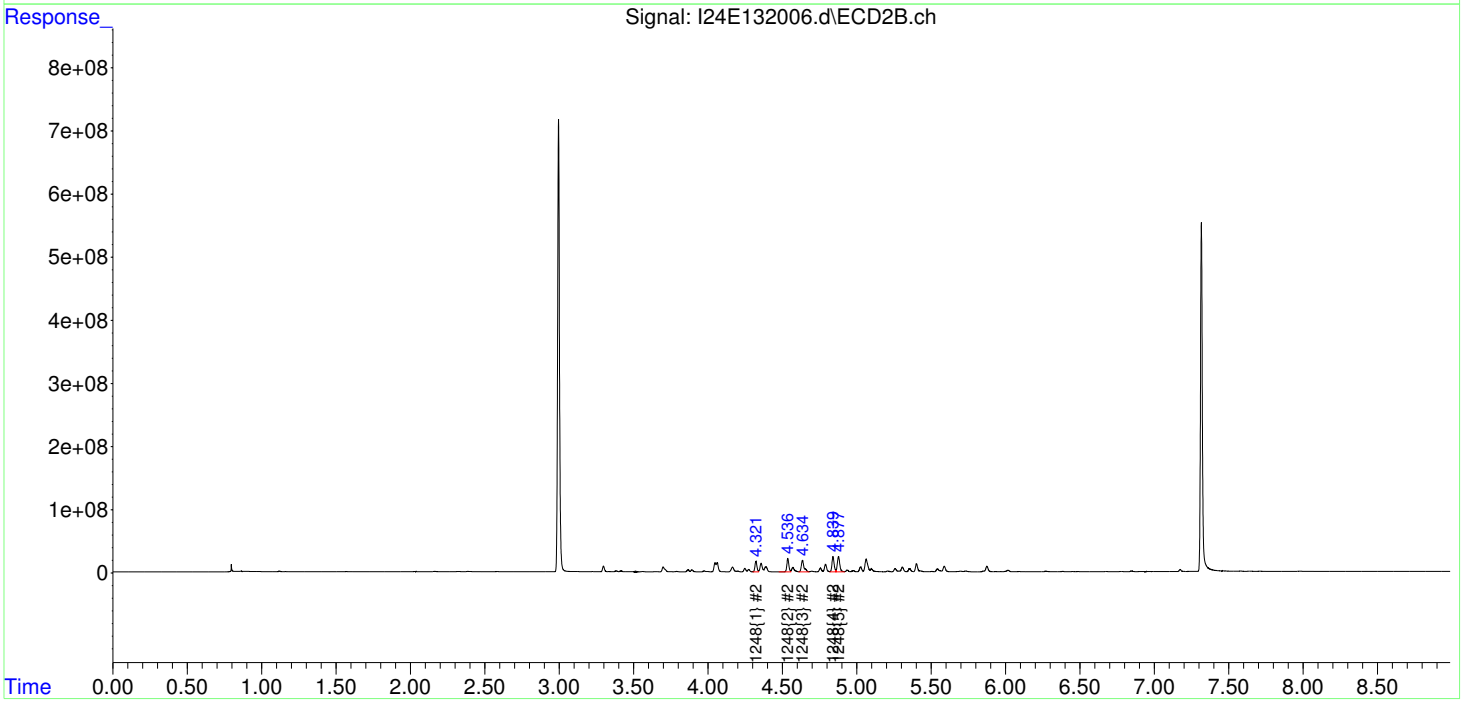
Data Path : C:\msdchem\1\data\051124\
Data File : I24E132006.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 May 2024 8:56 am
Operator : PJG
Sample : 1248 100 24B0832 Inst : ECD 9
Misc : mix[l5]
ALS Vial : 6 Sample Multiplier: 1

3463

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 11 09:45:20 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ECD 9	Calibration:	2400478
Lab File ID:	I24E132007.d	Calibration Date:	04/28/24 08:52
Sequence:	S104387	Injection Date:	05/11/24
Lab Sample ID:	S104387-CCV4	Injection Time:	09:08

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1242	A	100	92.4				-7.6	20
Aroclor-1242 [2C]	A	100	106				6.0	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Quantitation Report (QT Reviewed)

3465

Data Path : C:\msdchem\1\data\051124\
Data File : I24E132007.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 May 2024 9:08 am
Operator : PJG
Sample : 1242 100 24B0852 Inst : ECD 9
Misc : mix[l4]
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 11 09:45:22 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
2) S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
3) L1	1016{1}	0.000	0.000	0	0	N.D. d	N.D. d
4) L1	1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1	1016{3}	0.000	0.000	0	0	N.D. d	N.D. d
6) L1	1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1	1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9) L7	1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7	1260{3}	0.000	0.000	0	0	N.D. d	N.D. d
11) L7	1260{4}	0.000	0.000	0	0	N.D. d	N.D. d
12) L7	1260{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	3.831	3.892	99967437	78054470	93.085	105.590
24) L4	1242{2}	4.043	4.061	309.9E6	248.2E6	94.552	109.933
25) L4	1242{3}	4.201	4.247	139.0E6	96834012	92.740	107.121
26) L4	1242{4}	4.479	4.536	167.6E6	130.8E6	91.446	104.492
27) L4	1242{5}	4.847	4.839	168.6E6	127.6E6	90.358	102.813
Sum	1242			885.0E6	681.5E6	462.182	529.949
Average	1242					92.436	105.990
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\051124\
Data File : I24E132007.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 May 2024 9:08 am
Operator : PJG
Sample : 1242 100 24B0852 Inst : ECD 9
Misc : mix[l4]
ALS Vial : 7 Sample Multiplier: 1

3466

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 11 09:45:22 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D.	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40)	L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D. d	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

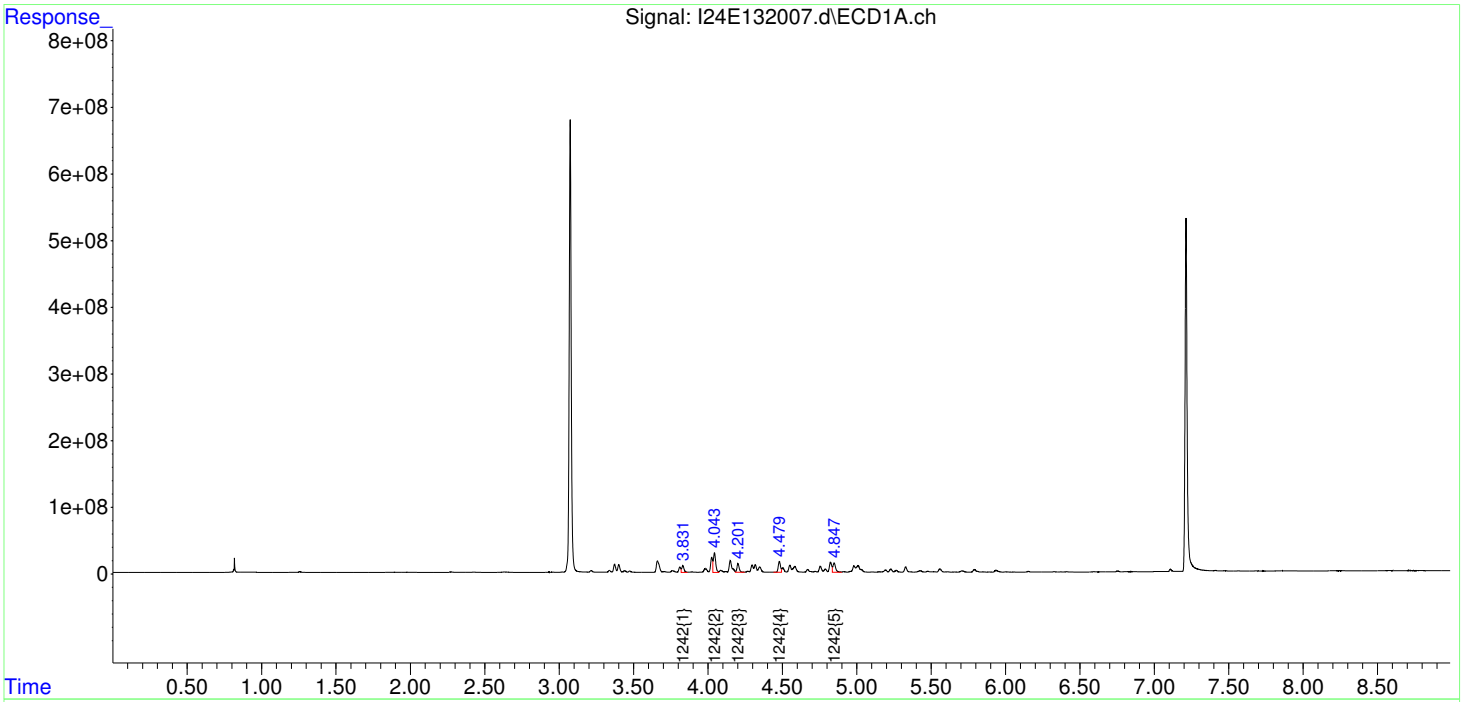
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

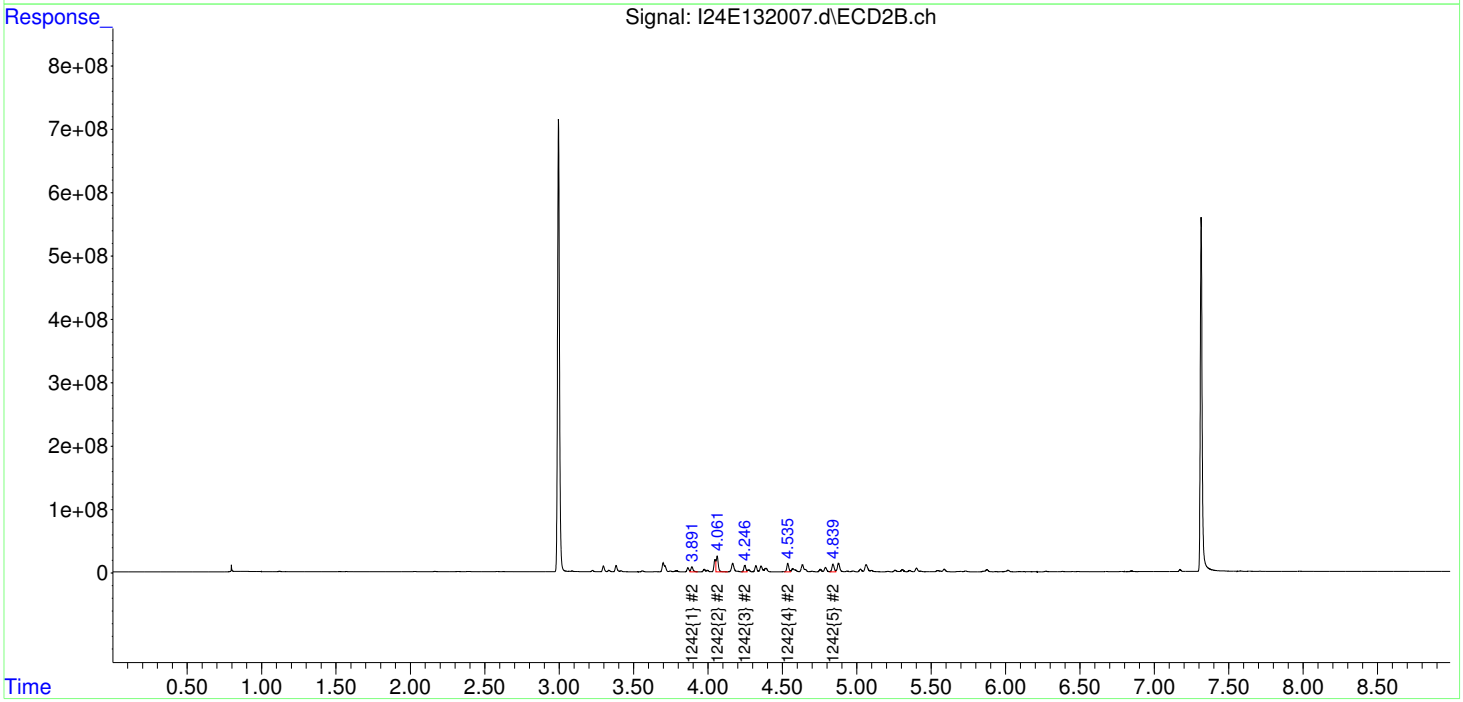
Data Path : C:\msdchem\1\data\051124\
Data File : I24E132007.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 May 2024 9:08 am
Operator : PJG
Sample : 1242 100 24B0852 Inst : ECD 9
Misc : mix[l4]
ALS Vial : 7 Sample Multiplier: 1

3467

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 11 09:45:22 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ECD 9	Calibration:	2400478
Lab File ID:	I24E132008.d	Calibration Date:	04/28/24 08:52
Sequence:	S104387	Injection Date:	05/11/24
Lab Sample ID:	S104387-CCV5	Injection Time:	09:20

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1232	A	100	94.4				-5.6	20
Aroclor-1232 [2C]	A	100	104				3.8	20
Aroclor-1268	A	100	90.6				-9.4	20
Aroclor-1268 [2C]	A	100	102				2.5	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Quantitation Report (QT Reviewed)

3469

Data Path : C:\msdchem\1\data\051124\
Data File : I24E132008.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 May 2024 9:20 am
Operator : PJG
Sample : 1232/1268 100 24C0355 Inst : ECD 9
Misc : mix[l3,l9]
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 11 09:45:24 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
2) S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
3) L1	1016{1}	0.000	0.000	0	0	N.D. d	N.D. d
4) L1	1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1	1016{3}	0.000	0.000	0	0	N.D. d	N.D. d
6) L1	1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1	1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9) L7	1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7	1260{3}	0.000	0.000	0	0	N.D. d	N.D. d
11) L7	1260{4}	0.000	0.000	0	0	N.D. d	N.D. d
12) L7	1260{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	3.831	3.892	61656190	47972580	93.340	101.926
29) L3	1232{2}	4.150	4.248	133.2E6	57775500	93.951	105.374
30) L3	1232{3}	4.479	4.536	93821173	74793462	93.257	105.403
31) L3	1232{4}	4.550	4.840	63197823	75563842	93.461	103.150

Data Path : C:\msdchem\1\data\051124\
Data File : I24E132008.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 May 2024 9:20 am
Operator : PJG
Sample : 1232/1268 100 24C0355 Inst : ECD 9
Misc : mix[l3,l9]
ALS Vial : 8 Sample Multiplier: 1

3470

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 11 09:45:24 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32) L3 1232{5}	4.823	4.878	96398111	90422700	97.958	103.010
Sum 1232			448.3E6	346.5E6	471.967	518.863
Average 1232					94.393	103.773
33) L9 1268{1}	6.611	6.672	994.9E6	857.7E6	94.615	104.339
34) L9 1268{2}	6.635	6.699	1020.9E6	842.6E6	95.343	104.918
35) L9 1268{3}	6.752	6.846	829.8E6	760.8E6	86.313	102.156
36) L9 1268{4}	6.952	6.999	255.7E6	211.7E6	87.403	99.273
37) L9 1268{5}	7.107	7.173	2203.1E6	2062.1E6	89.135	101.671
Sum 1268			5304.4E6	4734.9E6	452.809	512.356
Average 1268					90.562	102.471
38) L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39) L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40) L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221			0	0	N.D.	N.D.
Average 1221					0.000	0.000
41) L8 1262{1}	0.000	0.000	0	0	N.D. d	N.D. d
42) L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43) L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44) L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45) L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262			0	0	N.D.	N.D.
Average 1262					0.000	0.000

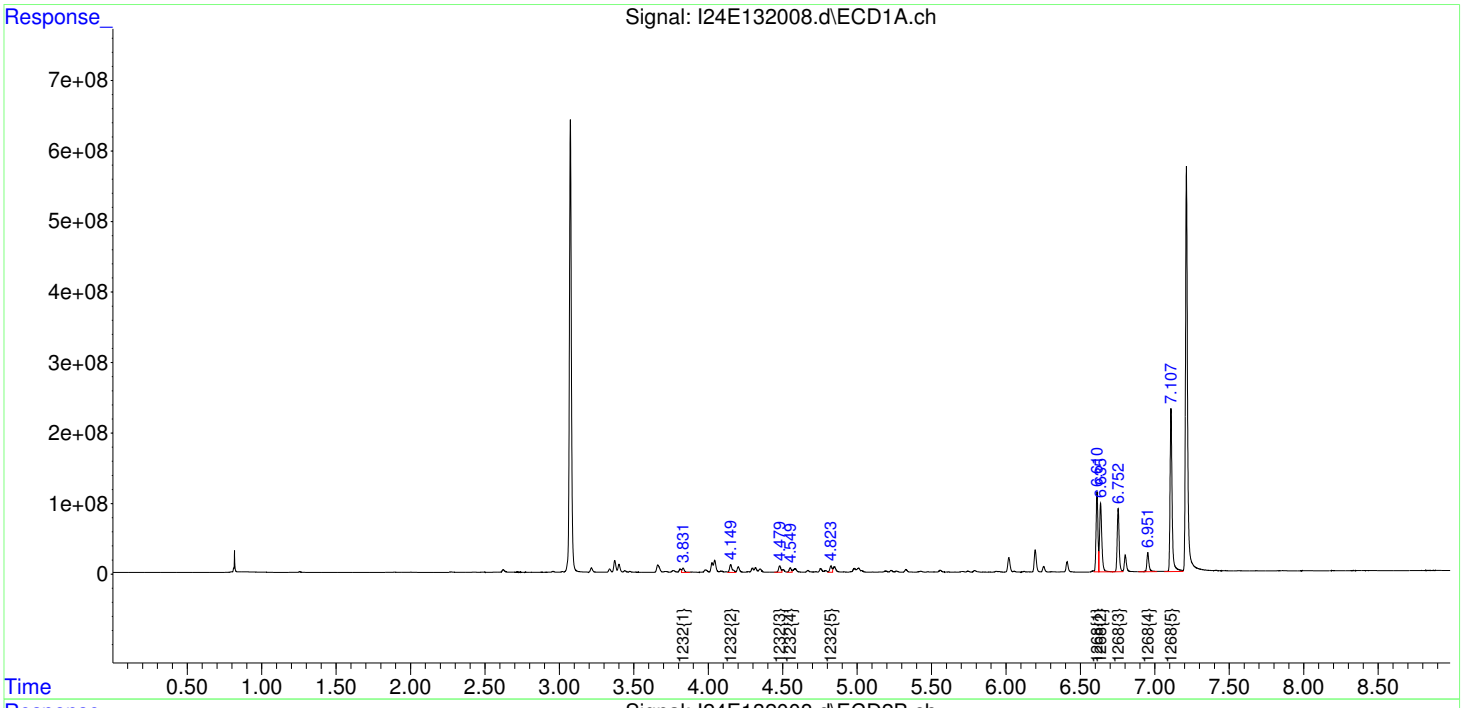
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

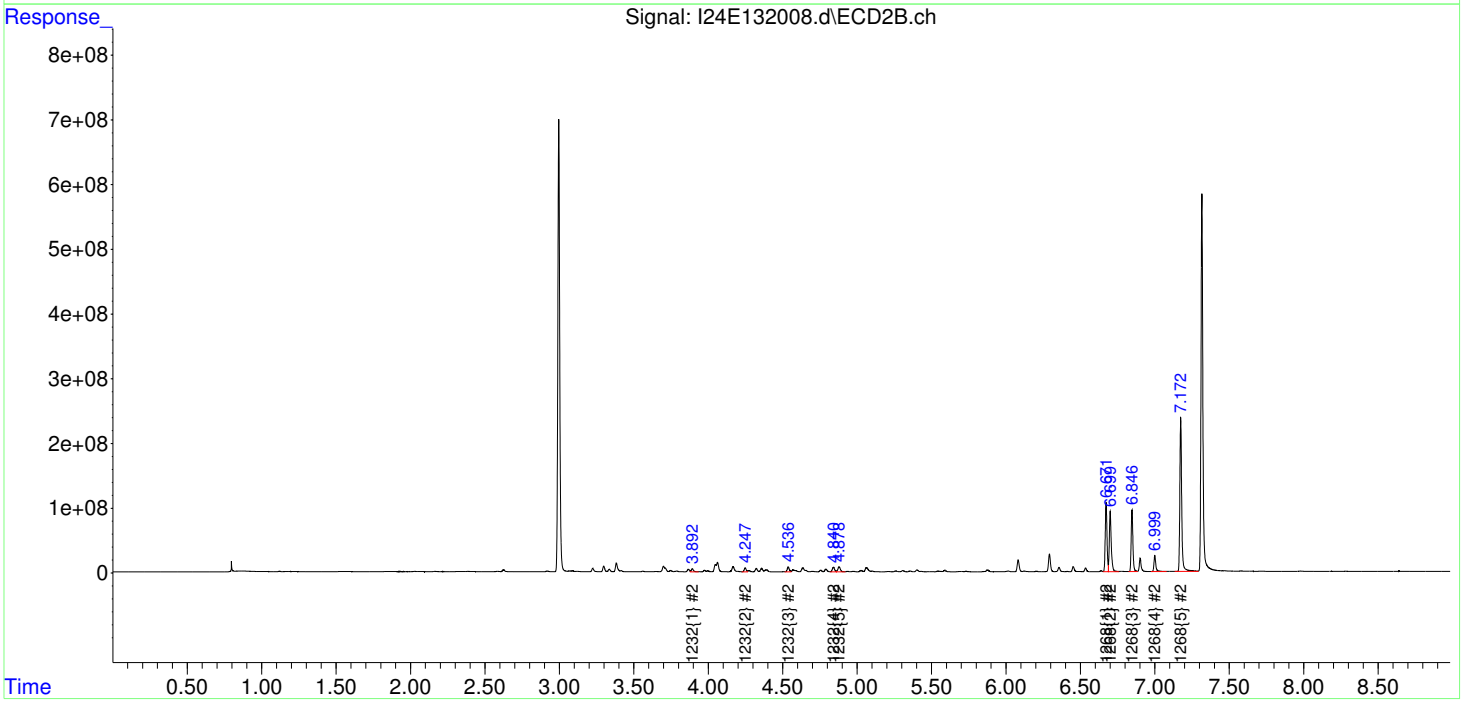
Data Path : C:\msdchem\1\data\051124\
Data File : I24E132008.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 May 2024 9:20 am
Operator : PJG
Sample : 1232/1268 100 24C0355 Inst : ECD 9
Misc : mix[l3,l9]
ALS Vial : 8 Sample Multiplier: 1

3471

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 11 09:45:24 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ECD 9	Calibration:	2400478
Lab File ID:	I24E132009.d	Calibration Date:	04/28/24 08:52
Sequence:	S104387	Injection Date:	05/11/24
Lab Sample ID:	S104387-CCV6	Injection Time:	09:32

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1221	A	100	98.9				-1.1	20
Aroclor-1221 [2C]	A	100	107				6.7	20
Aroclor-1262	A	100	91.7				-8.3	20
Aroclor-1262 [2C]	A	100	102				2.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051124\
Data File : I24E132009.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 May 2024 9:32 am
Operator : PJG
Sample : 1221/1262 100 23L0791 Inst : ECD 9
Misc : mix[l2,l8]
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 11 09:45:26 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
2) S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
3) L1	1016{1}	0.000	0.000	0	0	N.D. d	N.D. d
4) L1	1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1	1016{3}	0.000	0.000	0	0	N.D. d	N.D. d
6) L1	1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1	1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9) L7	1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7	1260{3}	0.000	0.000	0	0	N.D. d	N.D. d
11) L7	1260{4}	0.000	0.000	0	0	N.D. d	N.D. d
12) L7	1260{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\051124\
Data File : I24E132009.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 May 2024 9:32 am
Operator : PJG
Sample : 1221/1262 100 23L0791 Inst : ECD 9
Misc : mix[l2,l8]
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 11 09:45:26 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	3.214	3.223	94231373	69308978	98.745	106.780
39)	L2 1221{2}	3.371	3.335	196.5E6	46345786	95.071	105.359
40)	L2 1221{3}	3.768	3.382	29940326	162.1E6	102.907	107.970
Sum	1221			320.6E6	277.8E6	296.723	320.109
Average	1221					98.908	106.703
41)	L8 1262{1}	5.361	5.430	188.2E6	144.7E6	92.624	102.089
42)	L8 1262{2}	5.704	5.730	434.7E6	298.6E6	92.990	102.883
43)	L8 1262{3}	6.018	6.081	467.7E6	363.1E6	94.461	102.696
44)	L8 1262{4}	6.199	6.289	419.3E6	344.8E6	92.702	101.556
45)	L8 1262{5}	6.408	6.451	865.5E6	736.5E6	85.893	102.363
Sum	1262			2375.3E6	1887.6E6	458.670	511.586
Average	1262					91.734	102.317

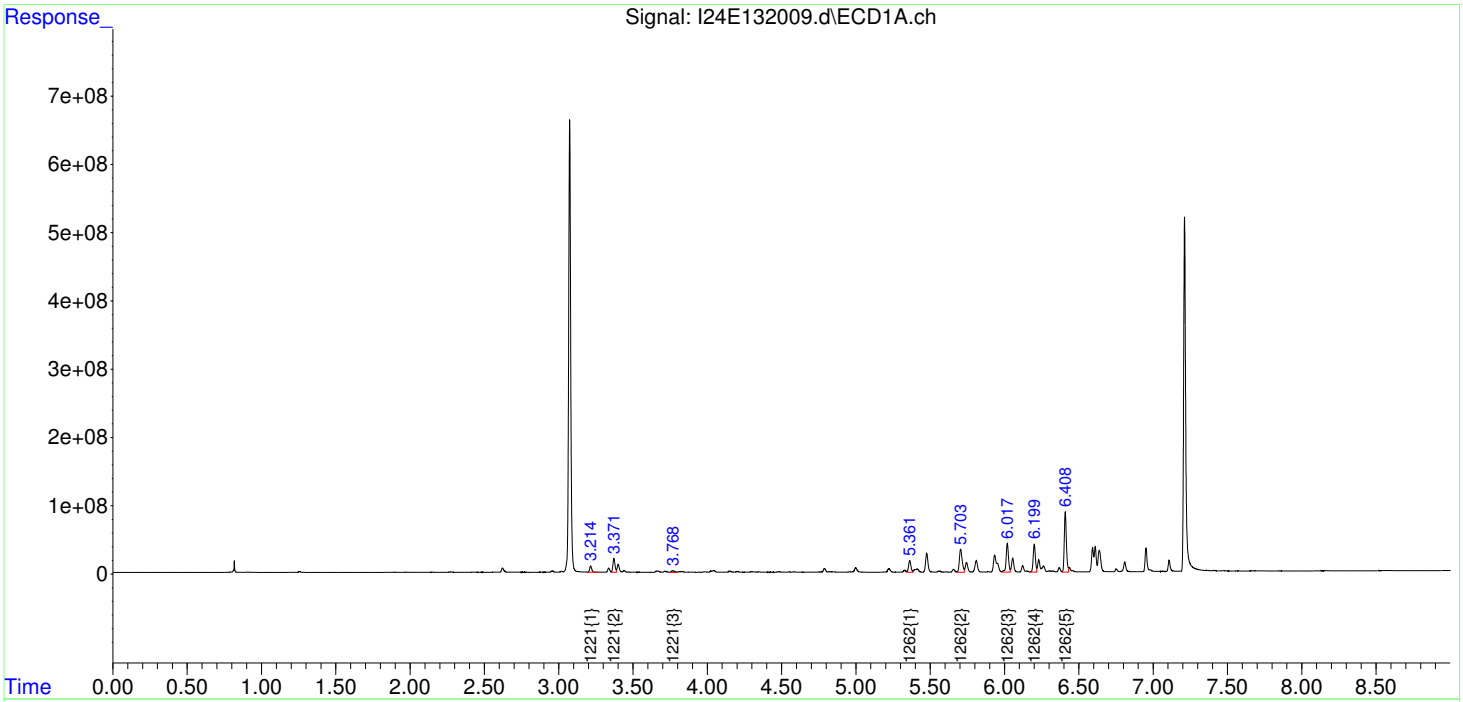
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

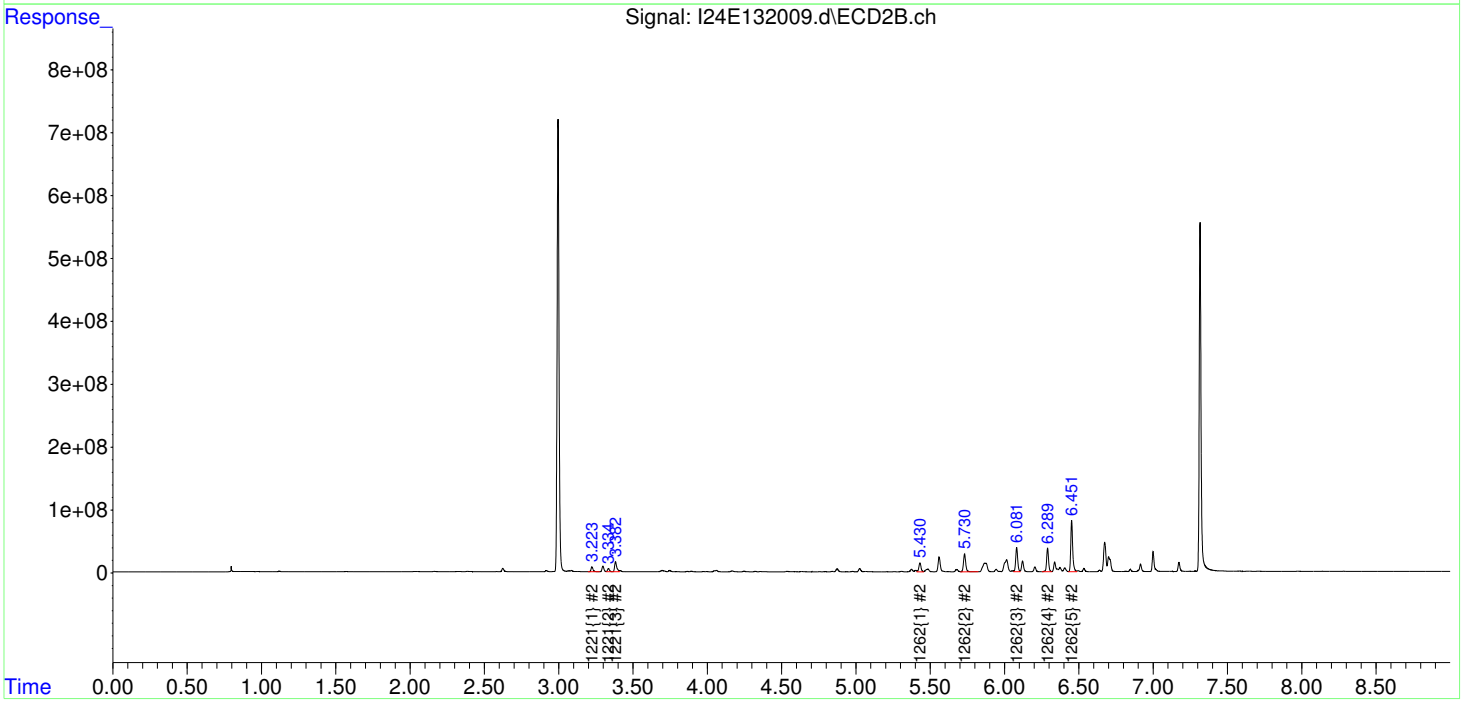
Data Path : C:\msdchem\1\data\051124\
Data File : I24E132009.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 May 2024 9:32 am
Operator : PJG
Sample : 1221/1262 100 23L0791 Inst : ECD 9
Misc : mix[l2,l8]
ALS Vial : 9 Sample Multiplier: 1

3475

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 11 09:45:26 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ECD 9	Calibration:	2400478
Lab File ID:	I24E132019.d	Calibration Date:	04/28/24 08:52
Sequence:	S104387	Injection Date:	05/11/24
Lab Sample ID:	S104387-CCV7	Injection Time:	12:08

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	100	95.0				-5.0	20
Aroclor-1016 [2C]	A	100	99.6				-0.4	20
Aroclor-1260	A	100	92.2				-7.8	20
Aroclor-1260 [2C]	A	100	91.7				-8.3	20
Decachlorobiphenyl	A	100	83.7	5.550539E+07	4.6438E+07		-16.3	
Decachlorobiphenyl [2C]	A	100	88.8	4.98069E+07	4.4252E+07		-11.2	
Tetrachloro-m-xylene	A	100	89.1	6.567614E+07	5.851E+07		-10.9	
Tetrachloro-m-xylene [2C]	A	100	102	5.785597E+07	5.8932E+07		1.9	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051124\
Data File : I24E132019.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 May 2024 12:08 pm
Operator : PJG
Sample : 1260/1016 100 Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 11 12:31:50 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	3.072	2.996	5851.0E6	5893.2E6	89.088	101.860
2) S	Decachlor...	7.209	7.314	4643.8E6	4425.2E6	83.662	88.848
	Target Compounds						
3) L1	1016{1}	3.809	3.866	90206917	74057433	94.973	97.860
4) L1	1016{2}	4.041	4.062	394.2E6	332.9E6	96.611	102.868
5) L1	1016{3}	4.147	4.248	280.6E6	130.3E6	95.046	99.918
6) L1	1016{4}	4.477	4.536	202.3E6	166.6E6	93.935	98.804
7) L1	1016{5}	4.547	4.635	136.0E6	155.7E6	94.390	98.303
Sum	1016			1103.3E6	859.6E6	474.955	497.754
Average	1016					94.991	99.551
8) L7	1260{1}	5.474	5.559	399.0E6	321.6E6	95.196	93.166
9) L7	1260{2}	5.701	5.730	615.0E6	375.1E6	98.966	93.042
10) L7	1260{3}	6.016	6.080	355.4E6	268.6E6	89.102	88.837
11) L7	1260{4}	6.198	6.288	370.7E6	315.9E6	91.980	92.539
12) L7	1260{5}	6.407	6.451	723.5E6	655.3E6	85.626	90.886
Sum	1260			2463.6E6	1936.5E6	460.871	458.470
Average	1260					92.174	91.694
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\051124\
Data File : I24E132019.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 May 2024 12:08 pm
Operator : PJG
Sample : 1260/1016 100 Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 19 Sample Multiplier: 1

3478

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 11 12:31:50 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40)	L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D. d	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

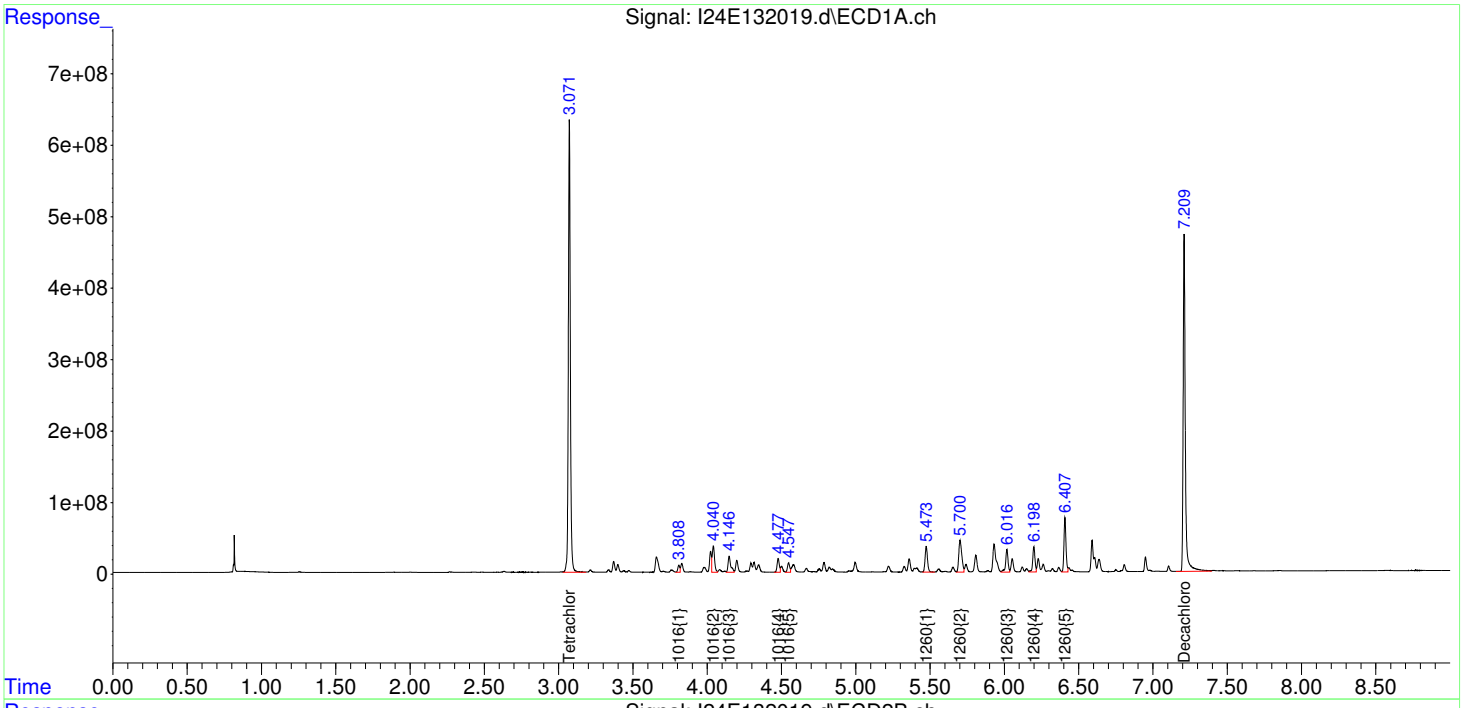
Quantitation Report (QT Reviewed)

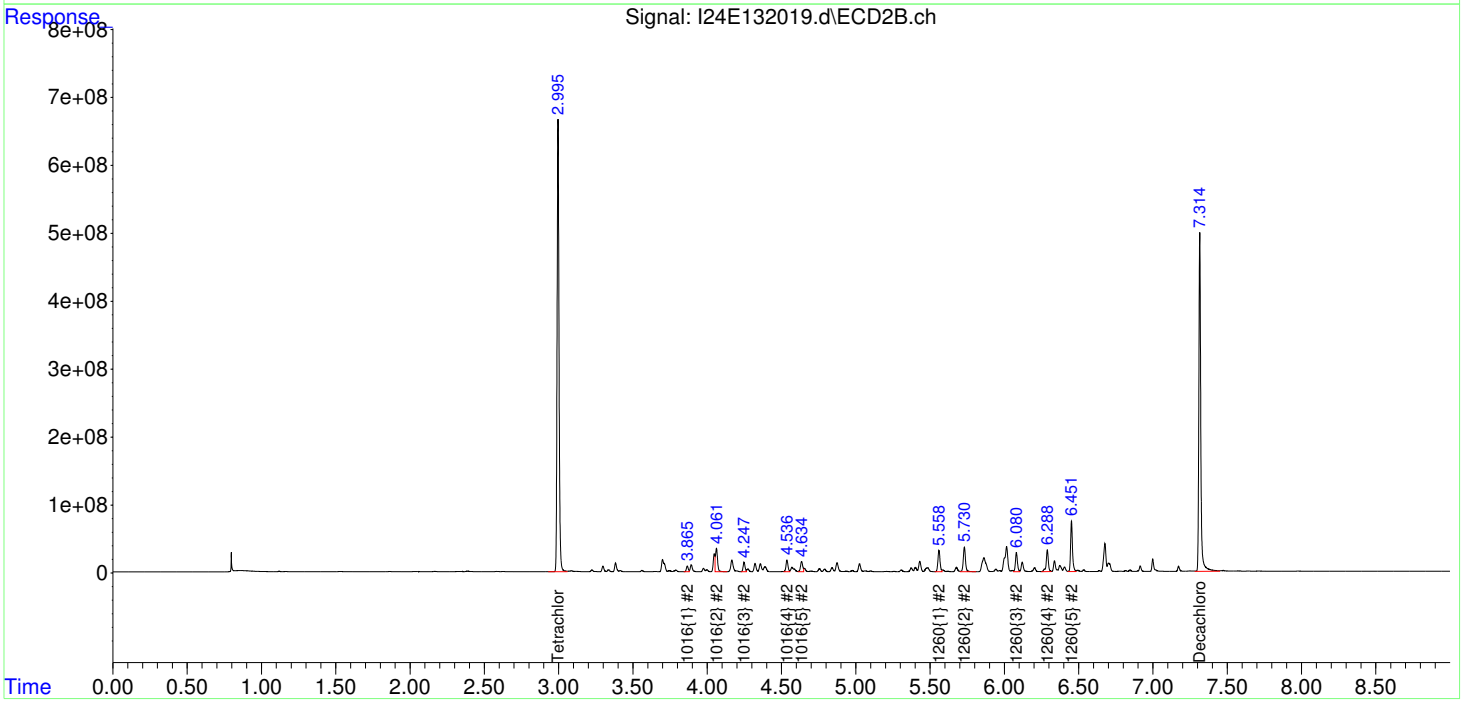
3479

Data Path : C:\msdchem\1\data\051124\
Data File : I24E132019.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 May 2024 12:08 pm
Operator : PJG
Sample : 1260/1016 100 Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 11 12:31:50 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ECD 9	Calibration:	2400478
Lab File ID:	I24E132029.d	Calibration Date:	04/28/24 08:52
Sequence:	S104387	Injection Date:	05/11/24
Lab Sample ID:	S104387-CCV8	Injection Time:	14:53

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	100	94.4				-5.6	20
Aroclor-1016 [2C]	A	100	99.6				-0.4	20
Aroclor-1260	A	100	91.9				-8.1	20
Aroclor-1260 [2C]	A	100	91.3				-8.7	20
Decachlorobiphenyl	A	100	88.5	5.550539E+07	4.91E+07		-11.5	
Decachlorobiphenyl [2C]	A	100	92.5	4.98069E+07	4.6067E+07		-7.5	
Tetrachloro-m-xylene	A	100	88.4	6.567614E+07	5.8087E+07		-11.6	
Tetrachloro-m-xylene [2C]	A	100	101	5.785597E+07	5.8521E+07		1.2	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051124\
Data File : I24E132029.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 May 2024 2:53 pm
Operator : PJG
Sample : 1260/1016 100 Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 11 15:06:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	3.072	2.996	5808.7E6	5852.1E6	88.444	101.150
2) S	Decachlor...	7.209	7.314	4910.0E6	4606.7E6	88.458	92.493
	Target Compounds						
3) L1	1016{1}	3.809	3.866	89159816	73999954	93.870	97.784
4) L1	1016{2}	4.041	4.062	391.4E6	333.5E6	95.942	103.056
5) L1	1016{3}	4.148	4.248	278.9E6	130.2E6	94.473	99.856
6) L1	1016{4}	4.477	4.537	200.9E6	166.8E6	93.283	98.883
7) L1	1016{5}	4.547	4.635	135.8E6	156.2E6	94.283	98.618
Sum	1016			1096.2E6	860.7E6	471.851	498.198
Average	1016					94.370	99.640
8) L7	1260{1}	5.473	5.559	396.2E6	323.6E6	94.530	93.764
9) L7	1260{2}	5.701	5.730	610.3E6	378.2E6	98.203	93.803
10) L7	1260{3}	6.016	6.080	354.7E6	271.6E6	88.929	89.819
11) L7	1260{4}	6.198	6.288	369.4E6	295.9E6	91.662	86.688
12) L7	1260{5}	6.407	6.450	727.0E6	665.6E6	86.041	92.318
Sum	1260			2457.6E6	1934.9E6	459.365	456.391
Average	1260					91.873	91.278
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\051124\
Data File : I24E132029.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 May 2024 2:53 pm
Operator : PJG
Sample : 1260/1016 100 Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 29 Sample Multiplier: 1

3482

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 11 15:06:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40)	L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D. d	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

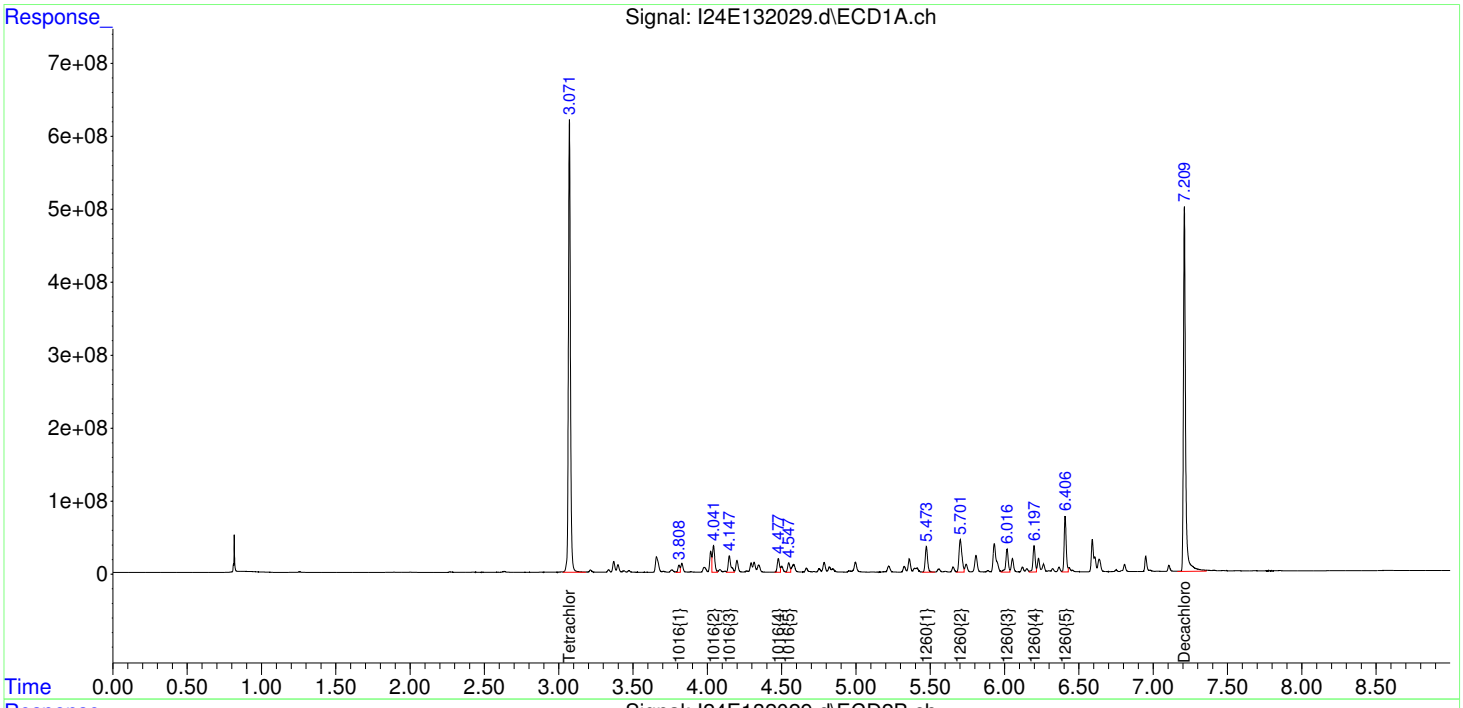
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

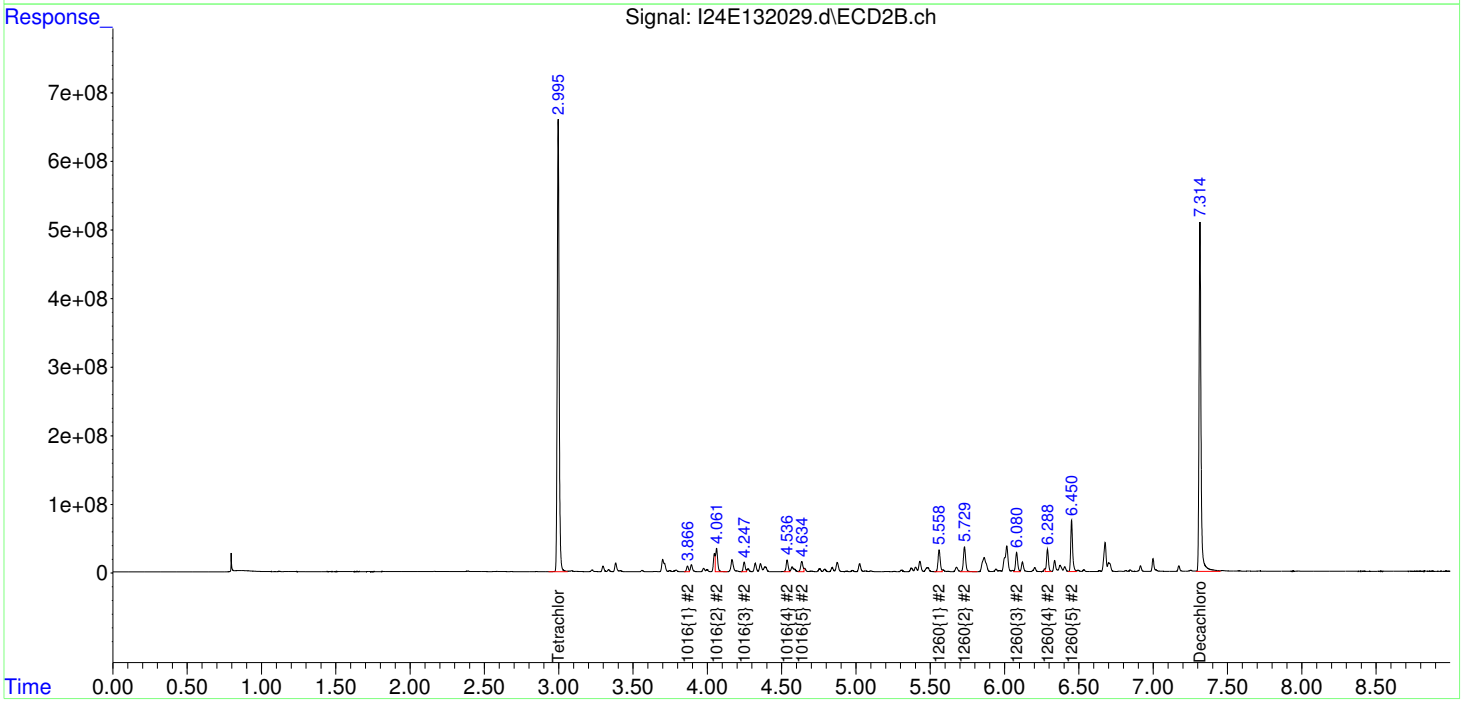
Data Path : C:\msdchem\1\data\051124\
Data File : I24E132029.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 May 2024 2:53 pm
Operator : PJG
Sample : 1260/1016 100 Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 29 Sample Multiplier: 1

3483

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 11 15:06:00 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ECD 9	Calibration:	2400478
Lab File ID:	I24E132040.d	Calibration Date:	04/28/24 08:52
Sequence:	S104387	Injection Date:	05/11/24
Lab Sample ID:	S104387-CCV9	Injection Time:	17:38

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	100	95.7				-4.3	20
Aroclor-1016 [2C]	A	100	102				1.7	20
Aroclor-1260	A	100	93.4				-6.6	20
Aroclor-1260 [2C]	A	100	95.1				-4.9	20
Decachlorobiphenyl	A	100	90.5	5.550539E+07	5.0242E+07		-9.5	
Decachlorobiphenyl [2C]	A	100	94.4	4.98069E+07	4.7024E+07		-5.6	
Tetrachloro-m-xylene	A	100	88.2	6.567614E+07	5.7934E+07		-11.8	
Tetrachloro-m-xylene [2C]	A	100	103	5.785597E+07	5.9707E+07		3.2	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\051124\
Data File : I24E132040.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 May 2024 5:38 pm
Operator : PJG
Sample : 1260/1016 100 Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 13 11:36:03 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	3.071	2.996	5793.4E6	5970.7E6	88.211	103.199
2) S	Decachlor...	7.210	7.315	5024.2E6	4702.4E6	90.515	94.414
	Target Compounds						
3) L1	1016{1}	3.809	3.865	90400905	75508254	95.177	99.778
4) L1	1016{2}	4.040	4.062	398.3E6	339.7E6	97.620	104.970
5) L1	1016{3}	4.147	4.247	281.9E6	133.1E6	95.478	102.055
6) L1	1016{4}	4.476	4.536	204.1E6	170.4E6	94.757	101.051
7) L1	1016{5}	4.547	4.634	137.8E6	159.7E6	95.643	100.845
Sum	1016			1112.4E6	878.5E6	478.674	508.698
Average	1016					95.735	101.740
8) L7	1260{1}	5.472	5.559	403.3E6	332.6E6	96.206	96.354
9) L7	1260{2}	5.700	5.730	620.2E6	384.5E6	99.809	95.366
10) L7	1260{3}	6.015	6.080	361.6E6	278.9E6	90.657	92.247
11) L7	1260{4}	6.198	6.288	376.4E6	328.6E6	93.409	96.276
12) L7	1260{5}	6.407	6.450	733.7E6	685.6E6	86.837	95.087
Sum	1260			2495.2E6	2010.2E6	466.917	475.329
Average	1260					93.383	95.066
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\051124\
Data File : I24E132040.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 May 2024 5:38 pm
Operator : PJG
Sample : 1260/1016 100 Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 13 11:36:03 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40)	L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D. d	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

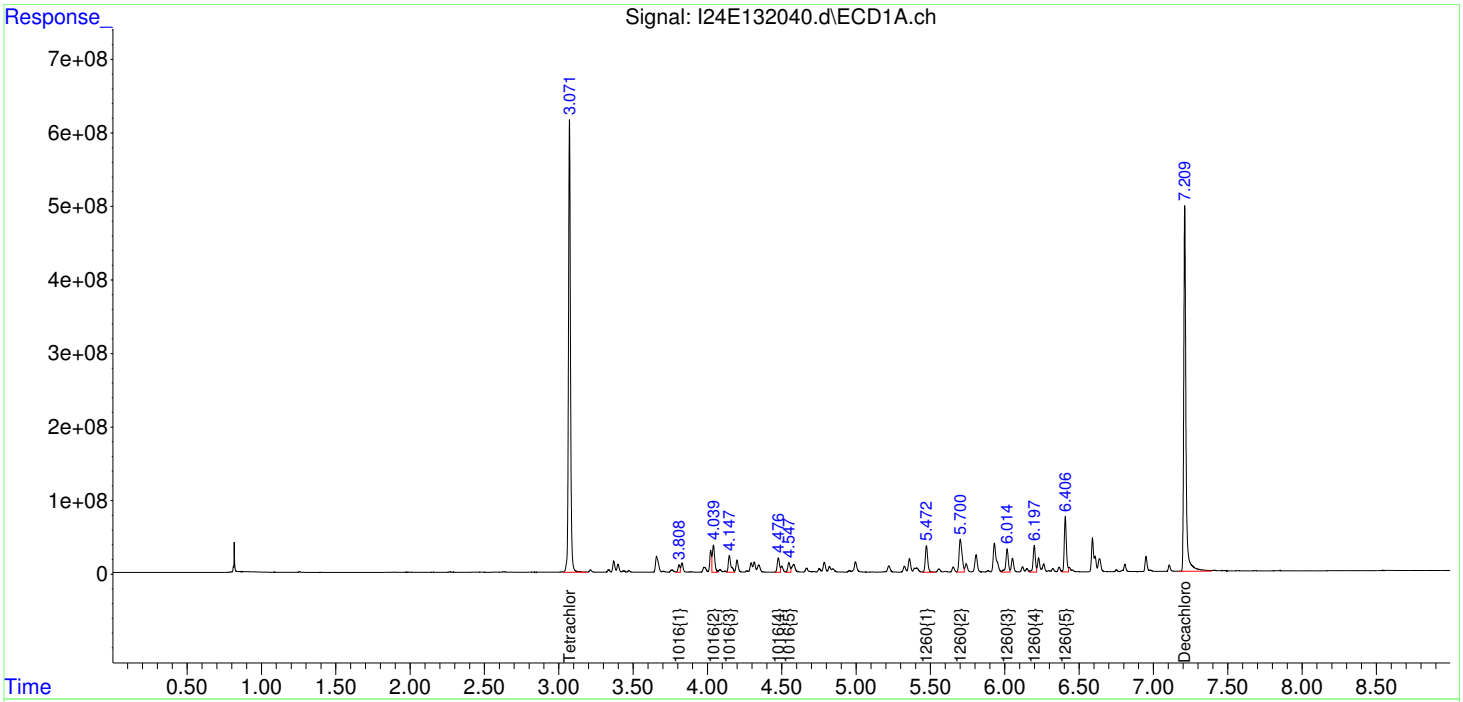
Quantitation Report (Not Reviewed)

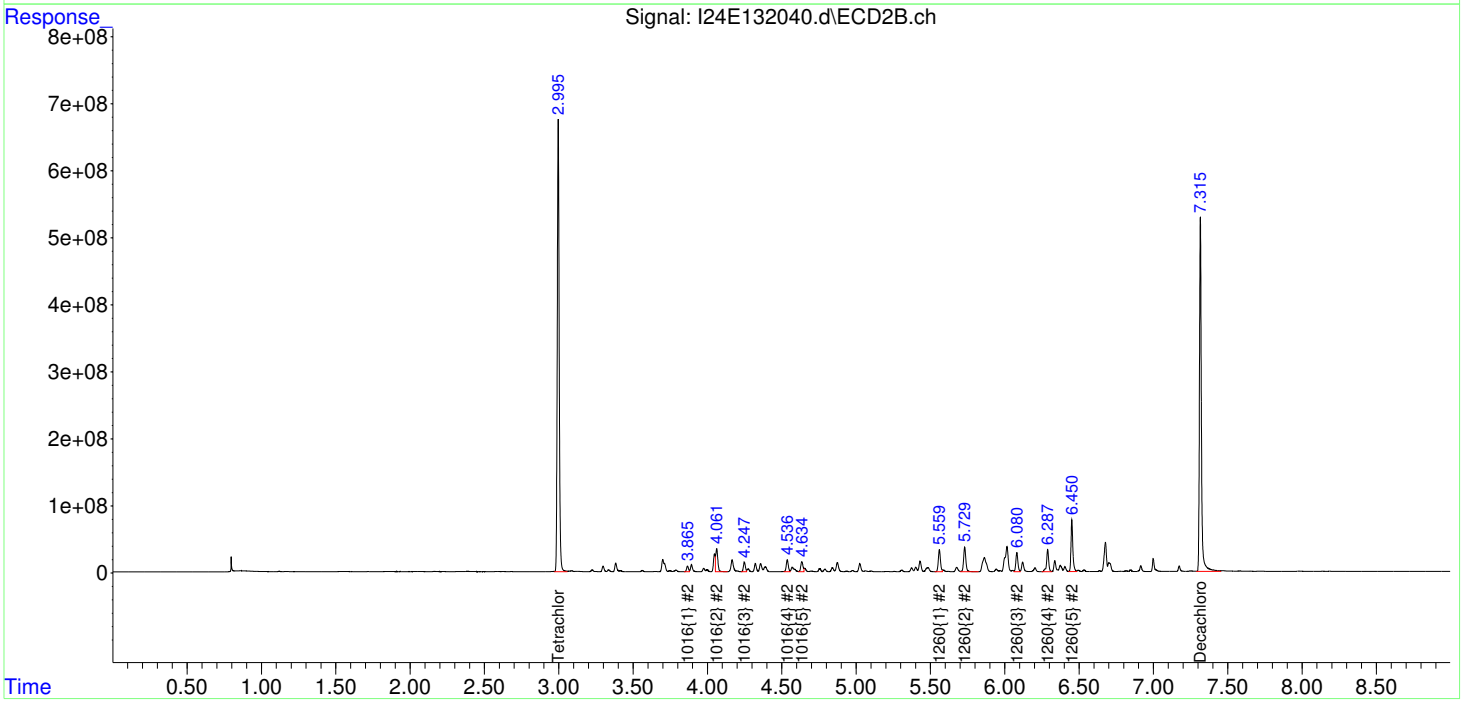
3487

Data Path : C:\msdchem\1\data\051124\
Data File : I24E132040.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 May 2024 5:38 pm
Operator : PJG
Sample : 1260/1016 100 Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 13 11:36:03 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ECD 9	Calibration:	2400478
Lab File ID:	I24E132041.d	Calibration Date:	04/28/24 08:52
Sequence:	S104387	Injection Date:	05/11/24
Lab Sample ID:	S104387-CCVA	Injection Time:	17:50

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1254	A	100	94.7				-5.3	20
Aroclor-1254 [2C]	A	100	96.5				-3.5	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Quantitation Report (Not Reviewed)

3489

Data Path : C:\msdchem\1\data\051124\
Data File : I24E132041.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 May 2024 5:50 pm
Operator : PJG
Sample : 1254 100 Inst : ECD 9
Misc : mix[l6]
ALS Vial : 41 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 13 11:36:07 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
2) S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
3) L1	1016{1}	0.000	0.000	0	0	N.D. d	N.D. d
4) L1	1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1	1016{3}	0.000	0.000	0	0	N.D. d	N.D. d
6) L1	1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1	1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9) L7	1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7	1260{3}	0.000	0.000	0	0	N.D. d	N.D. d
11) L7	1260{4}	0.000	0.000	0	0	N.D. d	N.D. d
12) L7	1260{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13) L6	1254{1}	4.787	4.872	277.6E6	256.5E6	92.690	97.287
14) L6	1254{2}	5.226	5.024	305.9E6	292.0E6	93.305	96.178
15) L6	1254{3}	5.326	5.306	503.1E6	235.7E6	93.779	96.383
16) L6	1254{4}	5.555	5.401	395.9E6	419.9E6	95.331	97.005
17) L6	1254{5}	5.933	6.015	543.8E6	457.7E6	98.265	95.587
Sum	1254			2026.2E6	1661.9E6	473.368	482.440
Average	1254					94.674	96.488
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\051124\
Data File : I24E132041.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 May 2024 5:50 pm
Operator : PJG
Sample : 1254 100 Inst : ECD 9
Misc : mix[l6]
ALS Vial : 41 Sample Multiplier: 1

3490

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 13 11:36:07 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D.
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D.
40)	L2 1221{3}	0.000	0.000	0	0	N.D.	N.D. d
	Sum 1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D. d	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

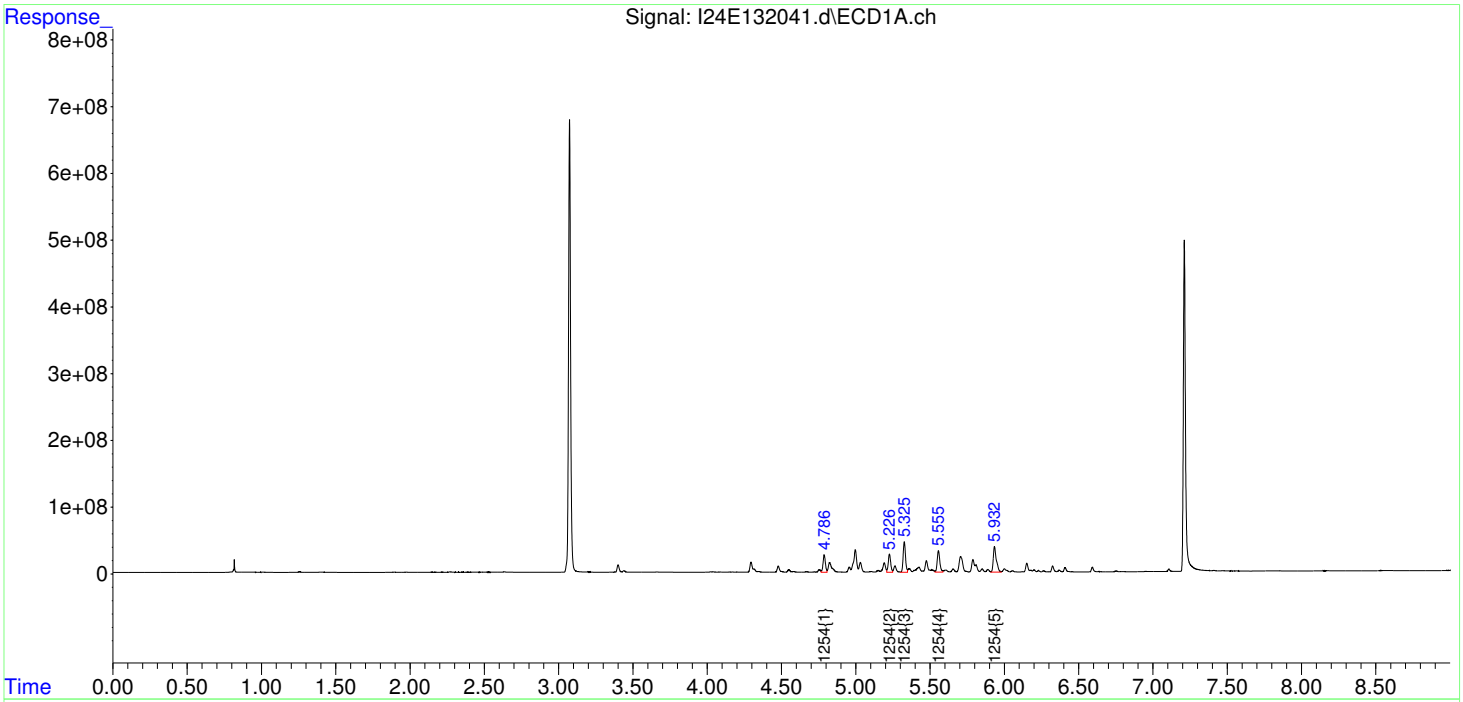
Quantitation Report (Not Reviewed)

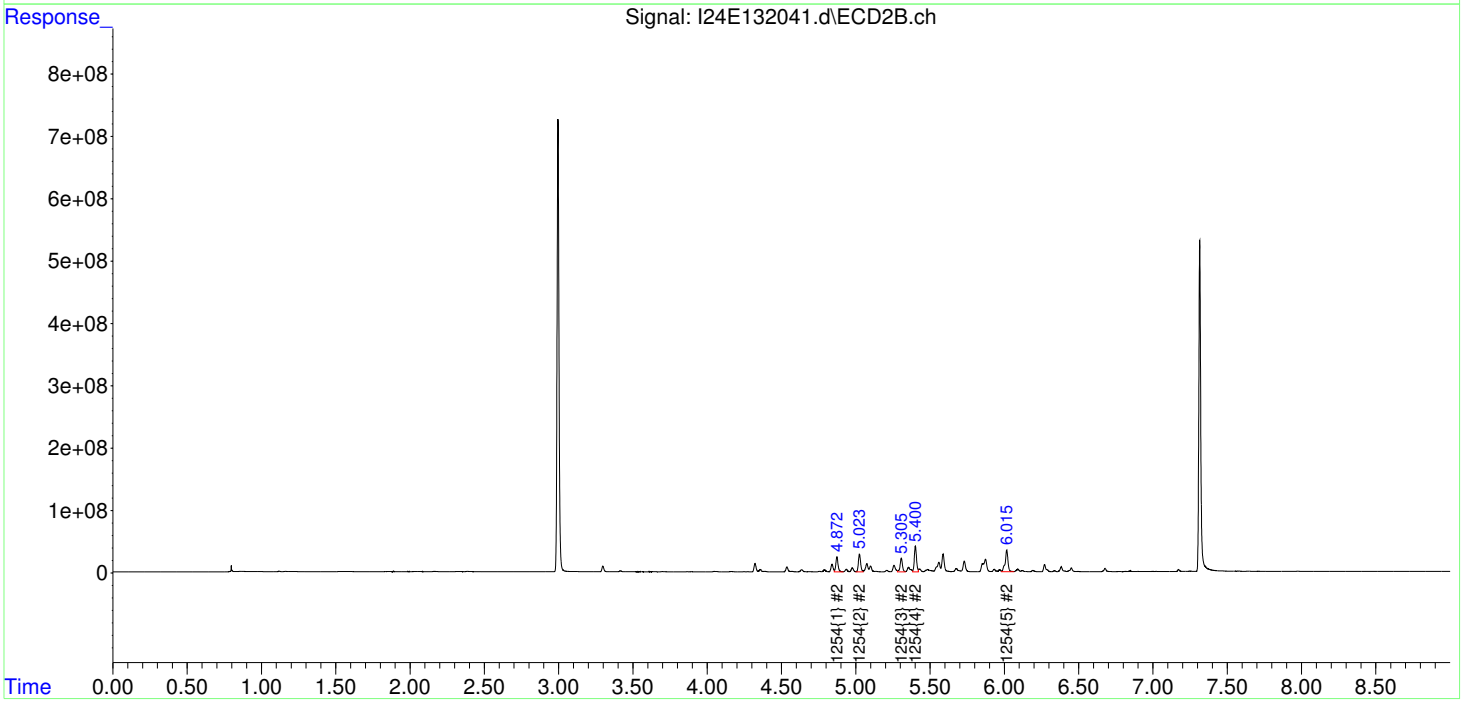
3491

Data Path : C:\msdchem\1\data\051124\
Data File : I24E132041.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 May 2024 5:50 pm
Operator : PJG
Sample : 1254 100 Inst : ECD 9
Misc : mix[l6]
ALS Vial : 41 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 13 11:36:07 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ECD 9	Calibration:	2400478
Lab File ID:	I24E132042.d	Calibration Date:	04/28/24 08:52
Sequence:	S104387	Injection Date:	05/11/24
Lab Sample ID:	S104387-CCVB	Injection Time:	18:02

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1248	A	100	97.3				-2.7	20
Aroclor-1248 [2C]	A	100	100				0.1	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\051124\
Data File : I24E132042.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 May 2024 6:02 pm
Operator : PJG
Sample : 1248 100 Inst : ECD 9
Misc : mix[l5]
ALS Vial : 42 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 13 11:36:11 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
2) S Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
3) L1 1016{1}	0.000	0.000	0	0	N.D. d	N.D. d
4) L1 1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1 1016{3}	0.000	0.000	0	0	N.D. d	N.D. d
6) L1 1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1 1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1016			0	0	N.D.	N.D.
Average 1016					0.000	0.000
8) L7 1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9) L7 1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7 1260{3}	0.000	0.000	0	0	N.D. d	N.D. d
11) L7 1260{4}	0.000	0.000	0	0	N.D. d	N.D. d
12) L7 1260{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1260			0	0	N.D.	N.D.
Average 1260					0.000	0.000
13) L6 1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6 1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6 1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6 1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6 1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254			0	0	N.D.	N.D.
Average 1254					0.000	0.000
18) L5 1248{1}	4.295	4.321	173.4E6	155.4E6	94.039	98.376
19) L5 1248{2}	4.478	4.536	249.9E6	204.9E6	97.505	100.765
20) L5 1248{3}	4.549	4.634	174.1E6	230.6E6	98.590	100.247
21) L5 1248{4}	4.822	4.839	294.5E6	241.2E6	99.433	100.490
22) L5 1248{5}	4.846	4.877	277.7E6	281.5E6	97.141	100.845
Sum 1248			1169.6E6	1113.6E6	486.708	500.723
Average 1248					97.342	100.145
23) L4 1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4 1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4 1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4 1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4 1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242			0	0	N.D.	N.D.
Average 1242					0.000	0.000
28) L3 1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3 1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3 1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3 1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\051124\
Data File : I24E132042.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 May 2024 6:02 pm
Operator : PJG
Sample : 1248 100 Inst : ECD 9
Misc : mix[l5]
ALS Vial : 42 Sample Multiplier: 1

3494

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 13 11:36:11 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40)	L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D.	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

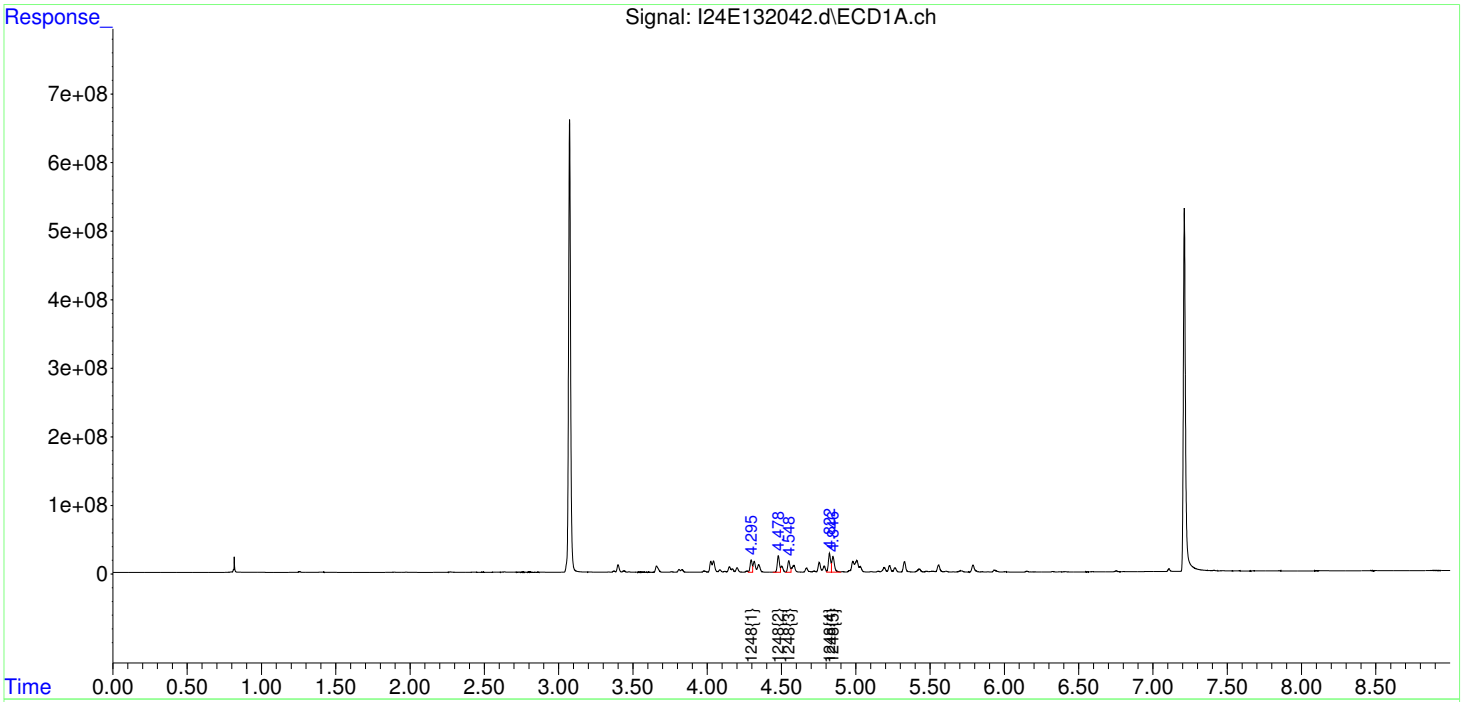
Quantitation Report (Not Reviewed)

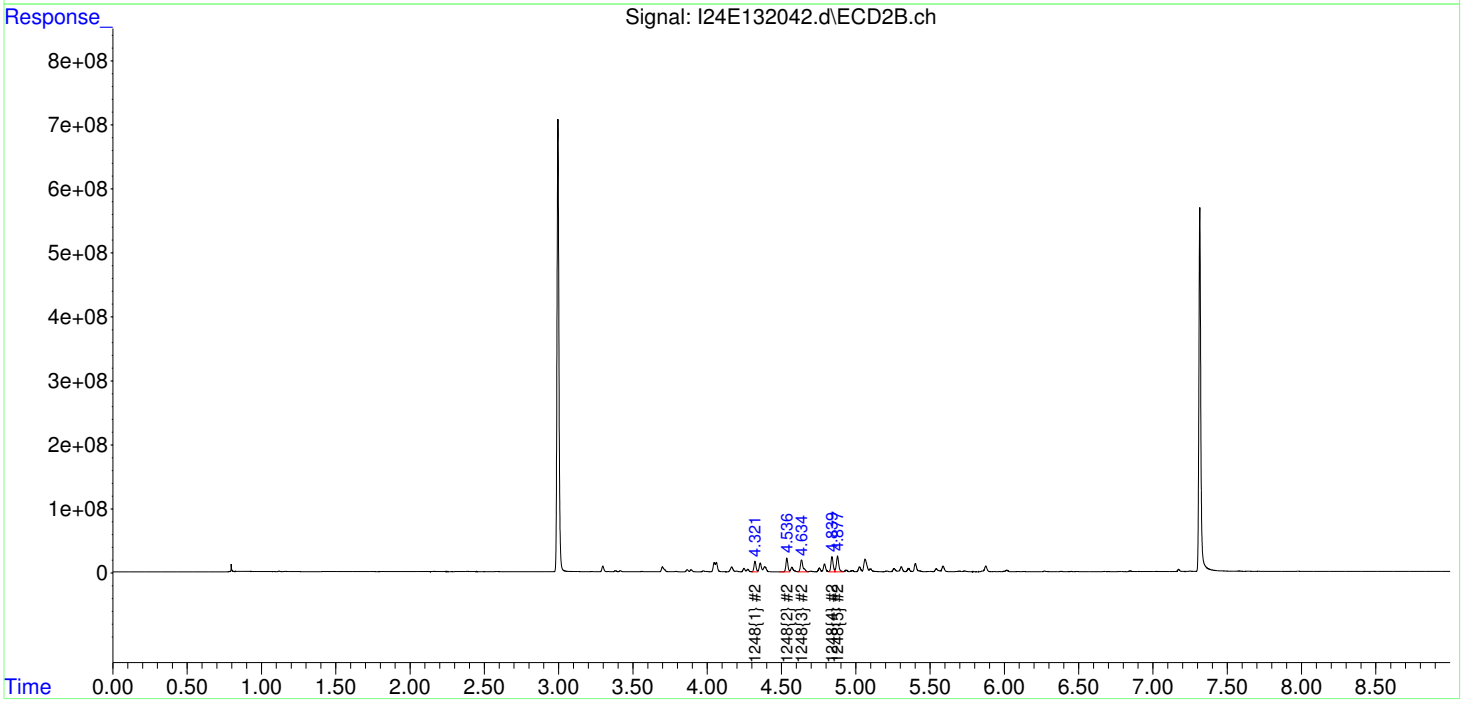
3495

Data Path : C:\msdchem\1\data\051124\
Data File : I24E132042.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 May 2024 6:02 pm
Operator : PJG
Sample : 1248 100 Inst : ECD 9
Misc : mix[l5]
ALS Vial : 42 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 13 11:36:11 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ECD 9	Calibration:	2400478
Lab File ID:	I24E132043.d	Calibration Date:	04/28/24 08:52
Sequence:	S104387	Injection Date:	05/11/24
Lab Sample ID:	S104387-CCVC	Injection Time:	18:14

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1242	A	100	89.7				-10.3	20
Aroclor-1242 [2C]	A	100	107				6.7	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Quantitation Report (Not Reviewed)

3497

Data Path : C:\msdchem\1\data\051124\
Data File : I24E132043.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 May 2024 6:14 pm
Operator : PJG
Sample : 1242 100 Inst : ECD 9
Misc : mix[l4]
ALS Vial : 43 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 13 11:36:15 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
2) S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
3) L1	1016{1}	0.000	0.000	0	0	N.D. d	N.D. d
4) L1	1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1	1016{3}	0.000	0.000	0	0	N.D. d	N.D. d
6) L1	1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1	1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9) L7	1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7	1260{3}	0.000	0.000	0	0	N.D. d	N.D. d
11) L7	1260{4}	0.000	0.000	0	0	N.D. d	N.D. d
12) L7	1260{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	3.830	3.892	97500373	78352582	90.788	105.993
24) L4	1242{2}	4.043	4.062	297.0E6	249.7E6	90.618	110.617
25) L4	1242{3}	4.201	4.248	134.2E6	97490405	89.535	107.847
26) L4	1242{4}	4.479	4.536	162.4E6	131.6E6	88.597	105.131
27) L4	1242{5}	4.846	4.839	165.8E6	129.3E6	88.873	104.148
Sum	1242			856.9E6	686.5E6	448.410	533.737
Average	1242					89.682	106.747
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\051124\
Data File : I24E132043.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 May 2024 6:14 pm
Operator : PJG
Sample : 1242 100 Inst : ECD 9
Misc : mix[l4]
ALS Vial : 43 Sample Multiplier: 1

3498

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 13 11:36:15 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D.	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40)	L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D. d	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

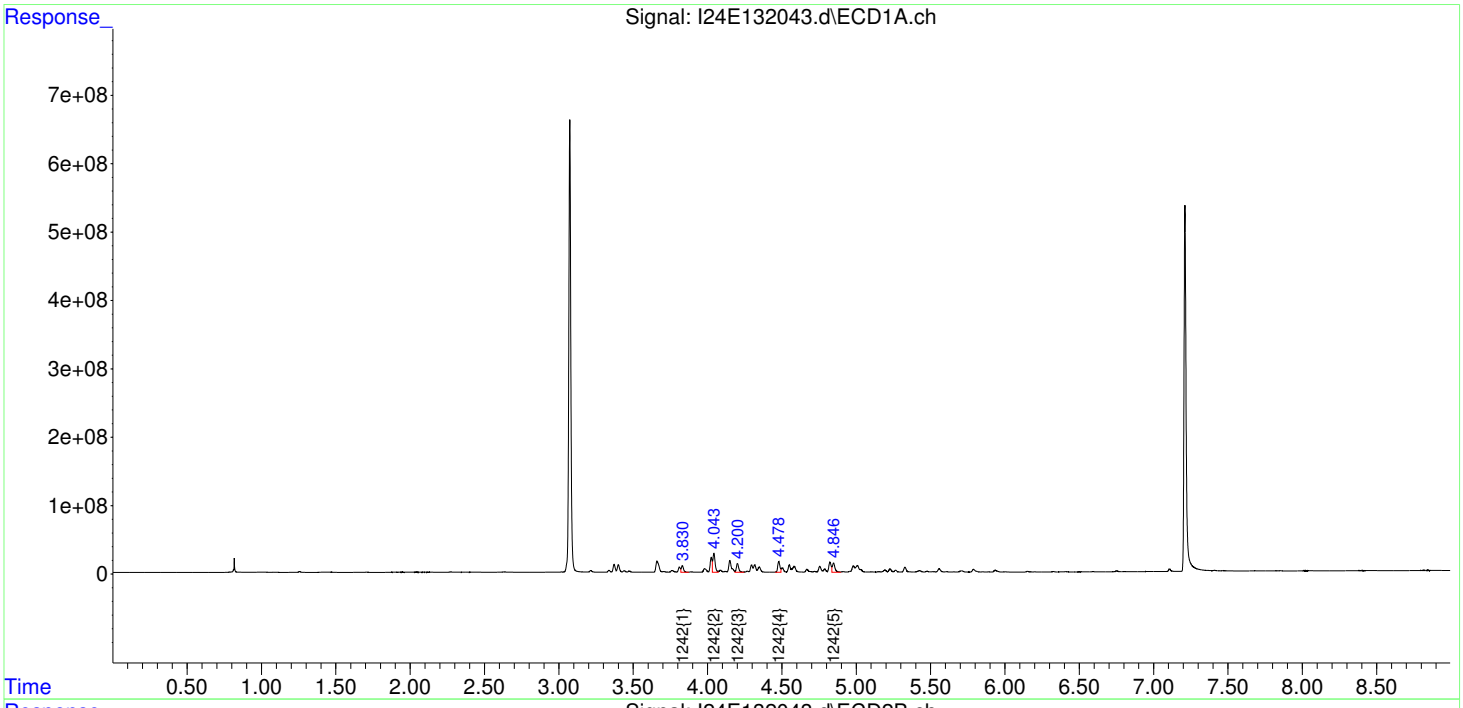
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

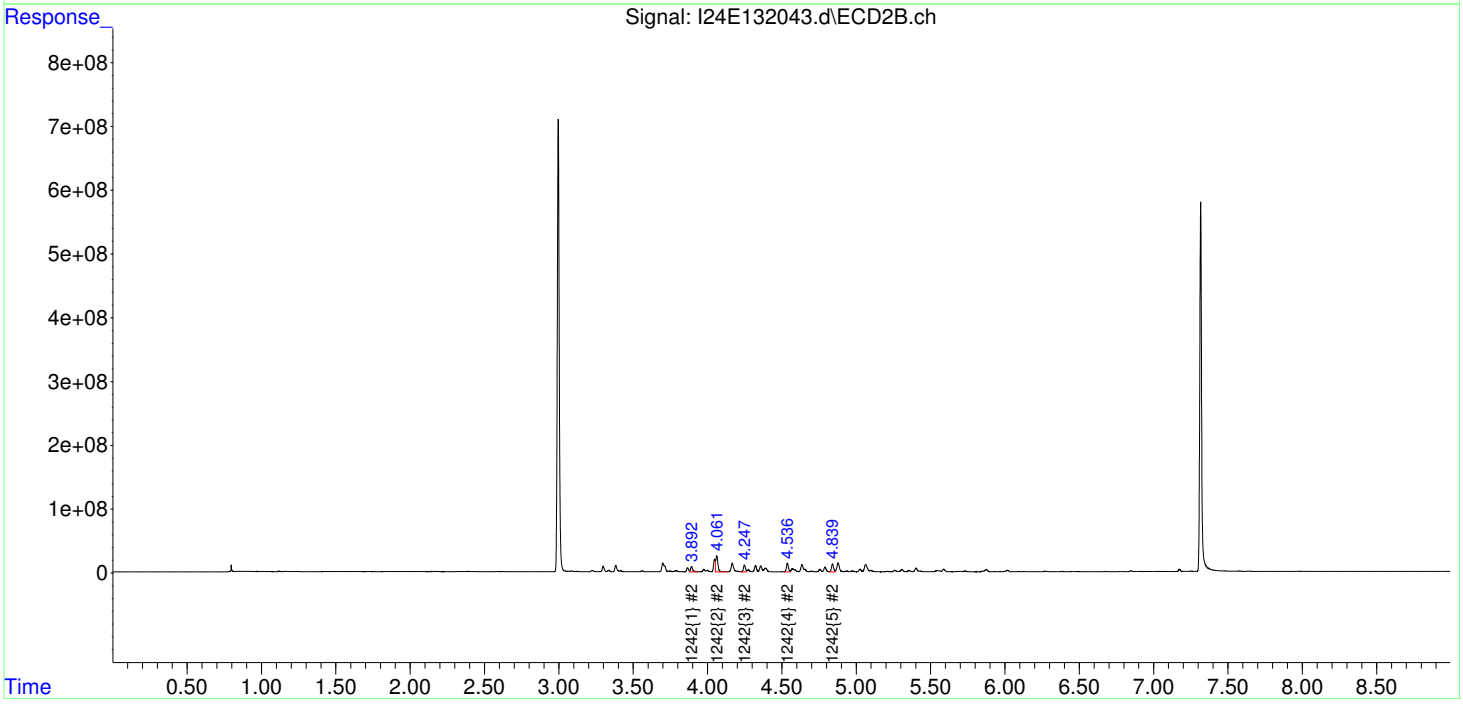
Data Path : C:\msdchem\1\data\051124\
Data File : I24E132043.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 May 2024 6:14 pm
Operator : PJG
Sample : 1242 100 Inst : ECD 9
Misc : mix[l4]
ALS Vial : 43 Sample Multiplier: 1

3499

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 13 11:36:15 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ECD 9	Calibration:	2400478
Lab File ID:	I24E132044.d	Calibration Date:	04/28/24 08:52
Sequence:	S104387	Injection Date:	05/11/24
Lab Sample ID:	S104387-CCVD	Injection Time:	18:26

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1232	A	100	92.0				-8.0	20
Aroclor-1232 [2C]	A	100	104				4.3	20
Aroclor-1268	A	100	91.4				-8.6	20
Aroclor-1268 [2C]	A	100	105				4.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Quantitation Report (Not Reviewed)

3501

Data Path : C:\msdchem\1\data\051124\
Data File : I24E132044.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 May 2024 6:26 pm
Operator : PJG
Sample : 1232/1268 100 Inst : ECD 9
Misc : mix[l3,l9]
ALS Vial : 44 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 13 11:36:19 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
2) S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
3) L1	1016{1}	0.000	0.000	0	0	N.D. d	N.D. d
4) L1	1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1	1016{3}	0.000	0.000	0	0	N.D. d	N.D. d
6) L1	1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1	1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9) L7	1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7	1260{3}	0.000	0.000	0	0	N.D. d	N.D. d
11) L7	1260{4}	0.000	0.000	0	0	N.D. d	N.D. d
12) L7	1260{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	3.830	3.892	59883025	48133839	90.656	102.268
29) L3	1232{2}	4.149	4.247	129.3E6	58009630	91.218	105.801
30) L3	1232{3}	4.479	4.536	91589548	75010088	91.039	105.709
31) L3	1232{4}	4.549	4.839	61900054	75904174	91.541	103.615

Data Path : C:\msdchem\1\data\051124\
Data File : I24E132044.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 May 2024 6:26 pm
Operator : PJG
Sample : 1232/1268 100 Inst : ECD 9
Misc : mix[l3,l9]
ALS Vial : 44 Sample Multiplier: 1

3502

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 13 11:36:19 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	4.822	4.877	94218291	91378779	95.743	104.099
Sum	1232			436.9E6	348.4E6	460.197	521.492
Average	1232					92.039	104.298
33)	L9 1268{1}	6.610	6.671	995.2E6	875.6E6	94.645	106.511
34)	L9 1268{2}	6.634	6.699	1023.3E6	864.1E6	95.568	107.596
35)	L9 1268{3}	6.752	6.845	838.1E6	778.1E6	87.174	104.475
36)	L9 1268{4}	6.951	6.998	260.6E6	217.8E6	89.081	102.165
37)	L9 1268{5}	7.106	7.172	2243.2E6	2092.1E6	90.760	103.148
Sum	1268			5360.4E6	4827.7E6	457.228	523.895
Average	1268					91.446	104.779
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40)	L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D. d	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

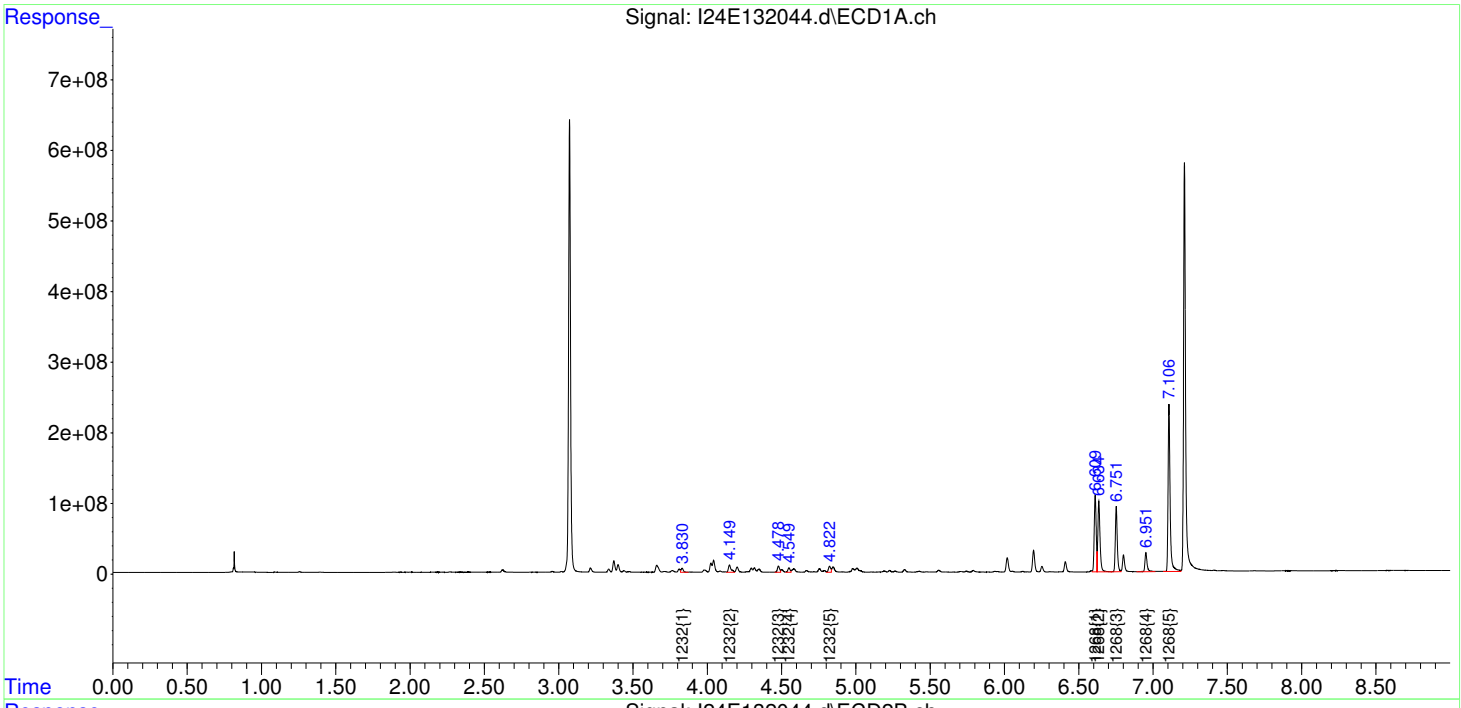
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

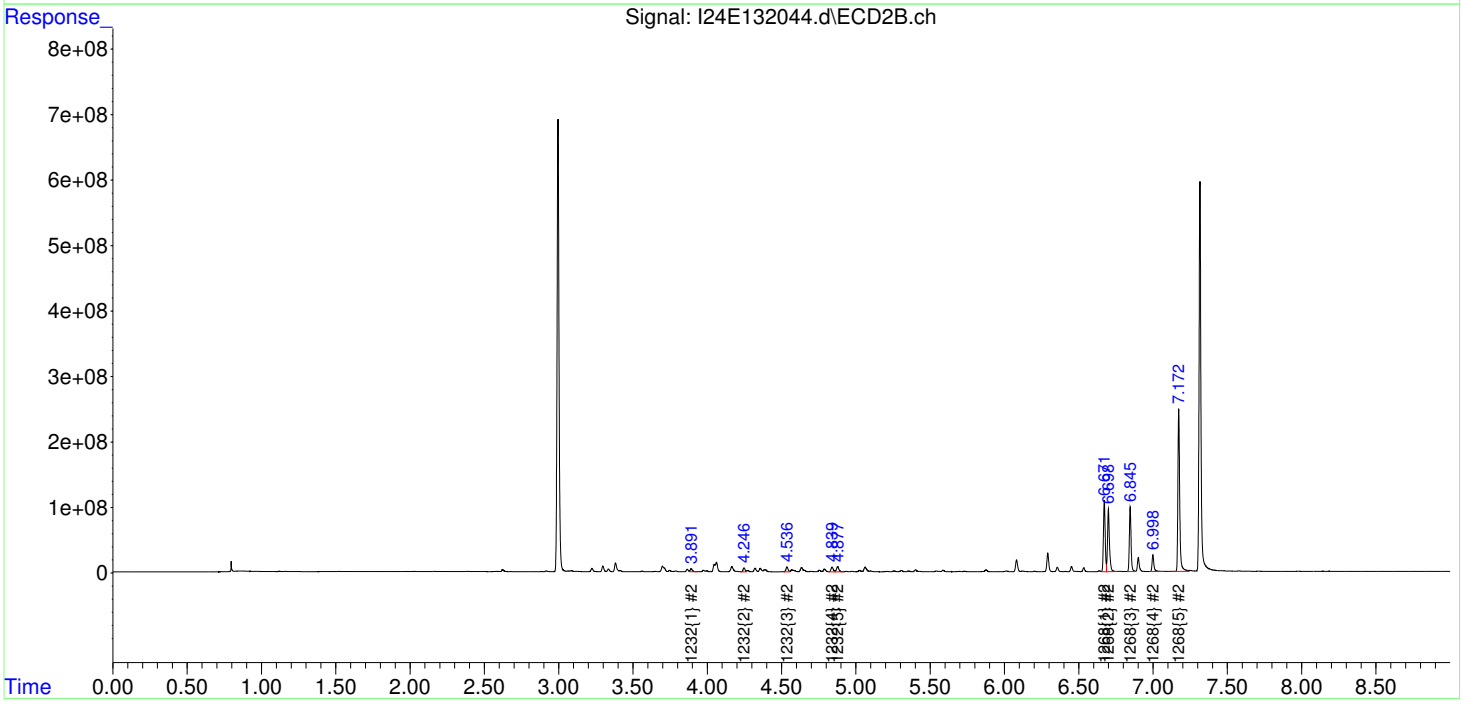
Data Path : C:\msdchem\1\data\051124\
Data File : I24E132044.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 May 2024 6:26 pm
Operator : PJG
Sample : 1232/1268 100 Inst : ECD 9
Misc : mix[l3,l9]
ALS Vial : 44 Sample Multiplier: 1

3503

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 13 11:36:19 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ECD 9	Calibration:	2400478
Lab File ID:	I24E132045.d	Calibration Date:	04/28/24 08:52
Sequence:	S104387	Injection Date:	05/11/24
Lab Sample ID:	S104387-CCVE	Injection Time:	18:37

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1221	A	100	95.8				-4.2	20
Aroclor-1221 [2C]	A	100	108				7.8	20
Aroclor-1262	A	100	91.4				-8.6	20
Aroclor-1262 [2C]	A	100	104				4.1	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Quantitation Report (Not Reviewed)

3505

Data Path : C:\msdchem\1\data\051124\
Data File : I24E132045.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 May 2024 6:37 pm
Operator : PJG
Sample : 1221/1262 100 Inst : ECD 9
Misc : mix[l2,l8]
ALS Vial : 45 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 13 11:36:23 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
2) S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
3) L1	1016{1}	0.000	0.000	0	0	N.D. d	N.D. d
4) L1	1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1	1016{3}	0.000	0.000	0	0	N.D. d	N.D. d
6) L1	1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1	1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9) L7	1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7	1260{3}	0.000	0.000	0	0	N.D. d	N.D. d
11) L7	1260{4}	0.000	0.000	0	0	N.D. d	N.D. d
12) L7	1260{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\051124\
Data File : I24E132045.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 May 2024 6:37 pm
Operator : PJG
Sample : 1221/1262 100 Inst : ECD 9
Misc : mix[l2,l8]
ALS Vial : 45 Sample Multiplier: 1

3506

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 13 11:36:23 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	3.214	3.224	89014045	70020703	93.277	107.876
39)	L2 1221{2}	3.371	3.334	191.9E6	46912429	92.848	106.647
40)	L2 1221{3}	3.768	3.382	29477751	163.5E6	101.317	108.876
Sum	1221			310.4E6	280.4E6	287.443	323.399
Average	1221					95.814	107.800
41)	L8 1262{1}	5.361	5.430	185.0E6	146.8E6	91.068	103.586
42)	L8 1262{2}	5.703	5.730	431.4E6	302.1E6	92.296	104.084
43)	L8 1262{3}	6.018	6.081	465.1E6	369.8E6	93.943	104.612
44)	L8 1262{4}	6.199	6.289	419.9E6	352.1E6	92.837	103.723
45)	L8 1262{5}	6.408	6.451	875.6E6	750.8E6	86.893	104.353
Sum	1262			2377.1E6	1921.6E6	457.038	520.358
Average	1262					91.408	104.072

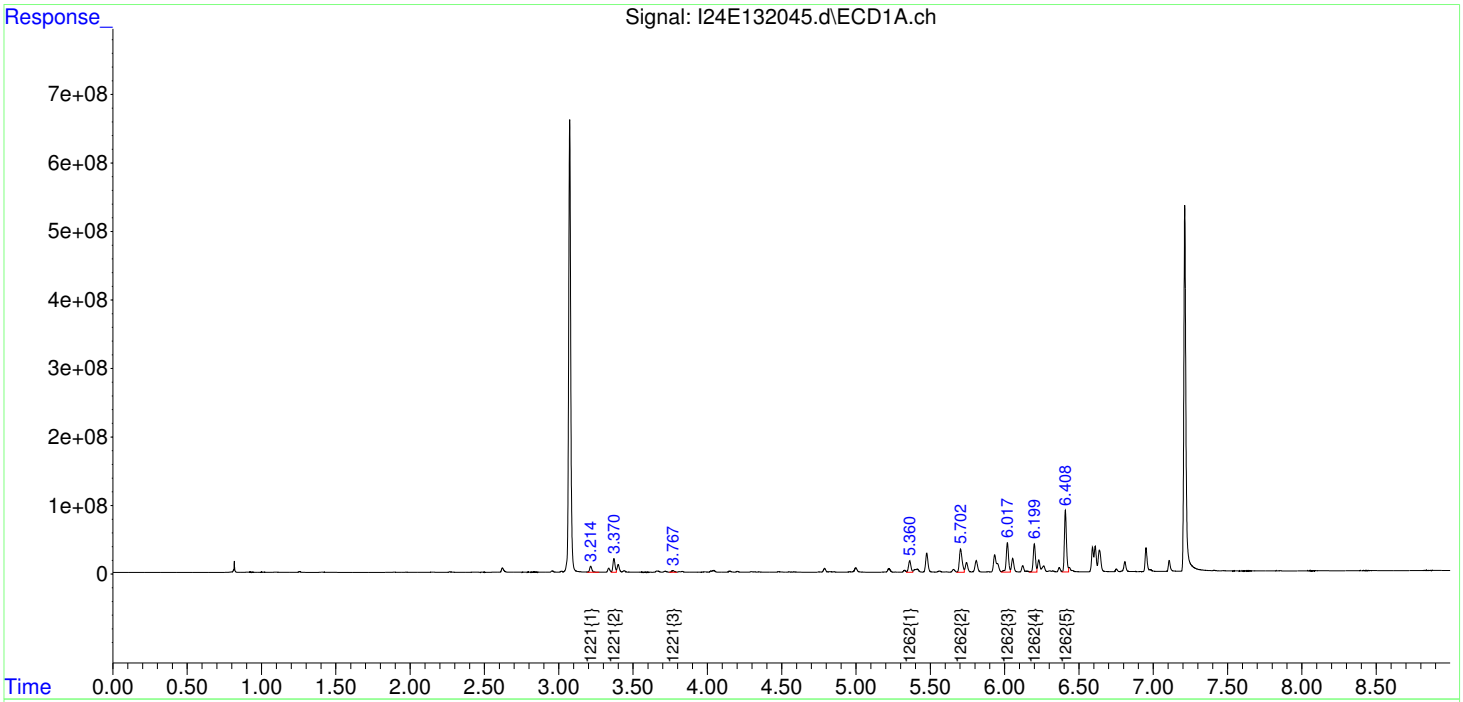
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

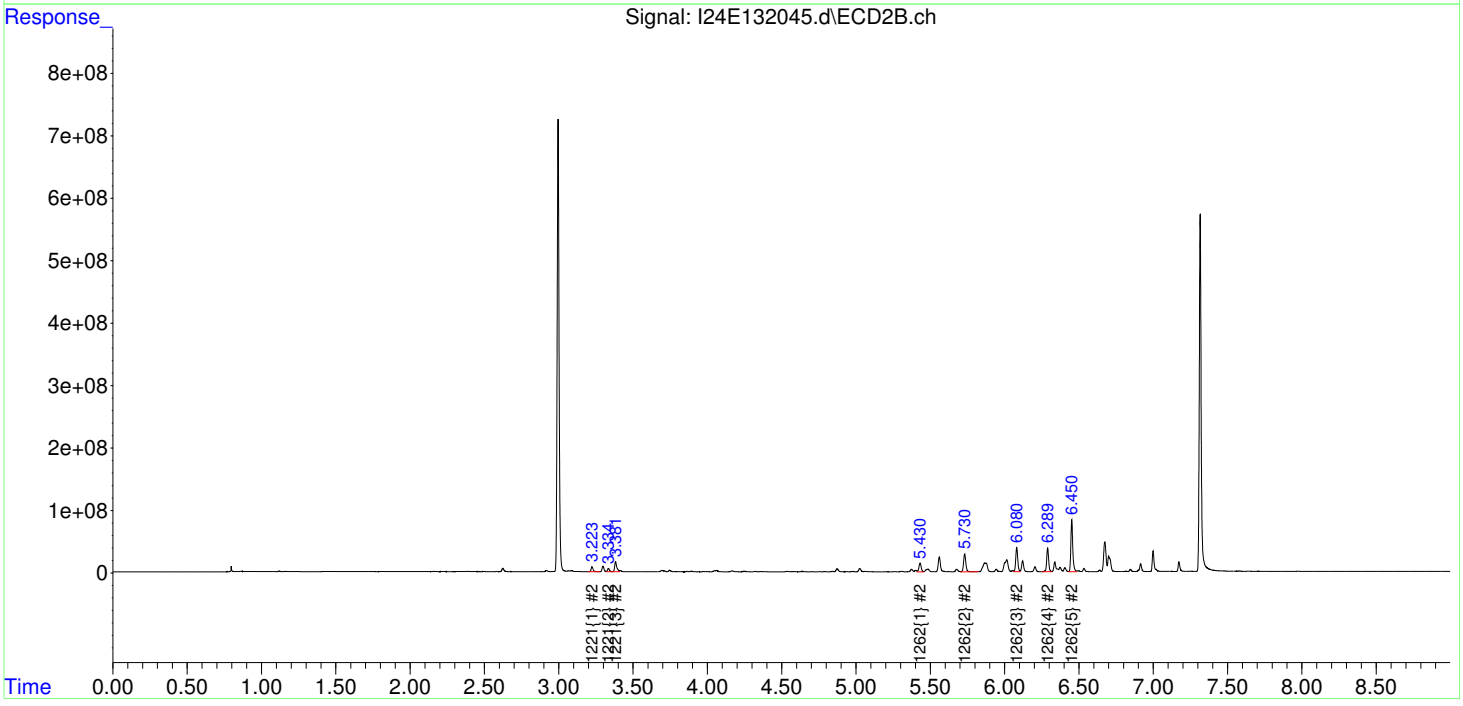
Data Path : C:\msdchem\1\data\051124\
Data File : I24E132045.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 May 2024 6:37 pm
Operator : PJG
Sample : 1221/1262 100 Inst : ECD 9
Misc : mix[l2,l8]
ALS Vial : 45 Sample Multiplier: 1

3507

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 13 11:36:23 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ECD 9	Calibration:	2400478
Lab File ID:	I24E135004.d	Calibration Date:	04/28/24 08:52
Sequence:	S104539	Injection Date:	05/14/24
Lab Sample ID:	S104539-CCV1	Injection Time:	08:34

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	100	105				4.8	20
Aroclor-1016 [2C]	A	100	105				5.0	20
Aroclor-1260	A	100	102				1.6	20
Aroclor-1260 [2C]	A	100	95.6				-4.4	20
Decachlorobiphenyl	A	100	91.8	5.550539E+07	5.0942E+07		-8.2	
Decachlorobiphenyl [2C]	A	100	94.1	4.98069E+07	4.6852E+07		-5.9	
Tetrachloro-m-xylene	A	100	99.7	6.567614E+07	6.5496E+07		-0.3	
Tetrachloro-m-xylene [2C]	A	100	108	5.785597E+07	6.2498E+07		8.0	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Quantitation Report (QT Reviewed)

3509

Data Path : C:\msdchem\1\data\051424\
Data File : I24E135004.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 8:34 am
Operator : PJG
Sample : 1260/1016 100 24D0721 Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 14 10:22:14 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	3.073	2.995	6549.6E6	6249.8E6	99.725	108.024
2) S	Decachlor...	7.210	7.314	5094.2E6	4685.2E6	91.776	94.069
	Target Compounds						
3) L1	1016{1}	3.810	3.865	99860182	77651493	105.136	102.610
4) L1	1016{2}	4.043	4.061	434.4E6	357.1E6	106.482	110.331
5) L1	1016{3}	4.149	4.247	307.5E6	137.0E6	104.171	105.004
6) L1	1016{4}	4.478	4.536	224.6E6	175.1E6	104.261	103.790
7) L1	1016{5}	4.549	4.634	150.1E6	163.8E6	104.188	103.458
Sum	1016			1216.5E6	910.6E6	524.238	525.193
Average	1016					104.848	105.039
8) L7	1260{1}	5.475	5.559	443.1E6	334.0E6	105.719	96.768
9) L7	1260{2}	5.703	5.729	671.7E6	413.3E6	108.086	102.525
10) L7	1260{3}	6.018	6.080	386.1E6	281.3E6	96.791	93.039
11) L7	1260{4}	6.199	6.288	399.9E6	309.0E6	99.221	90.516
12) L7	1260{5}	6.407	6.450	828.2E6	686.0E6	98.022	95.146
Sum	1260			2728.9E6	2023.6E6	507.838	477.993
Average	1260					101.568	95.599
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\051424\
Data File : I24E135004.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 8:34 am
Operator : PJG
Sample : 1260/1016 100 24D0721 Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 4 Sample Multiplier: 1

3510

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 14 10:22:14 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40)	L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D. d	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

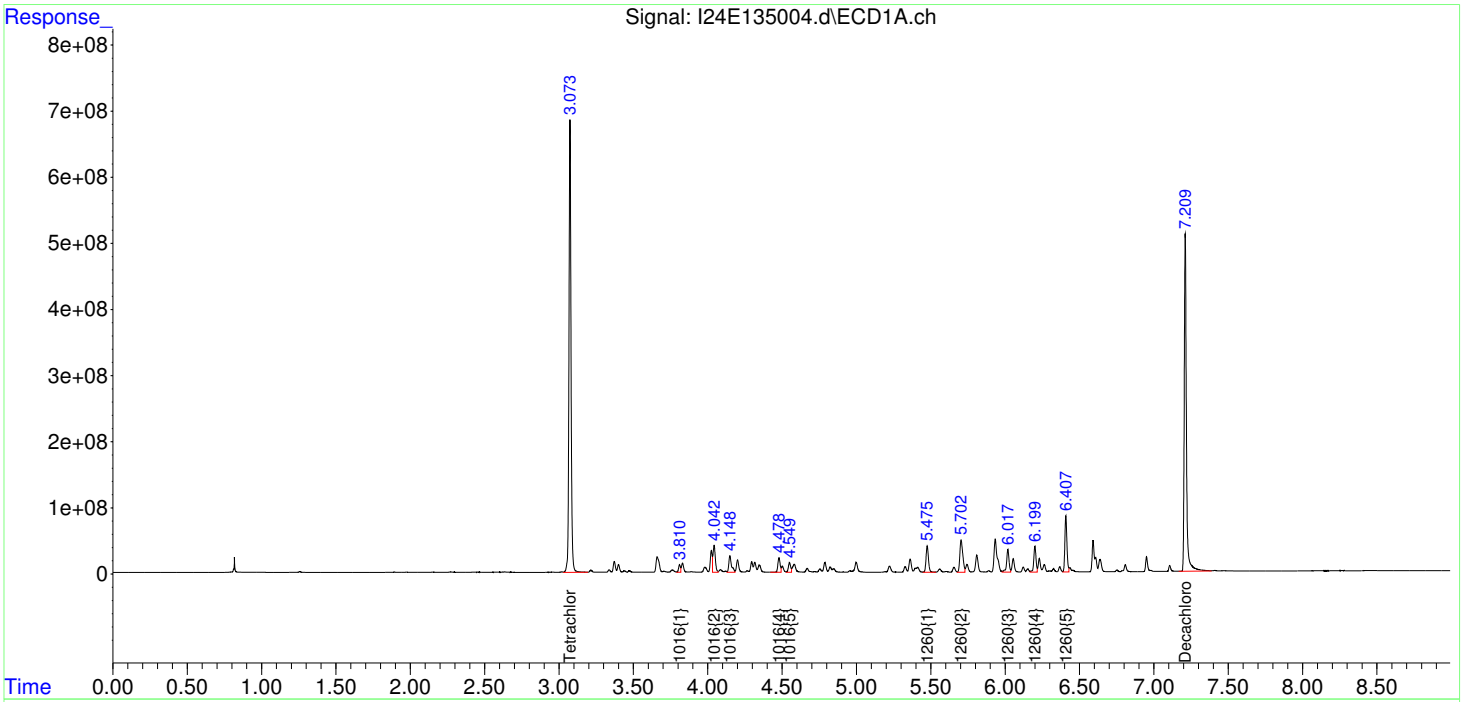
Quantitation Report (QT Reviewed)

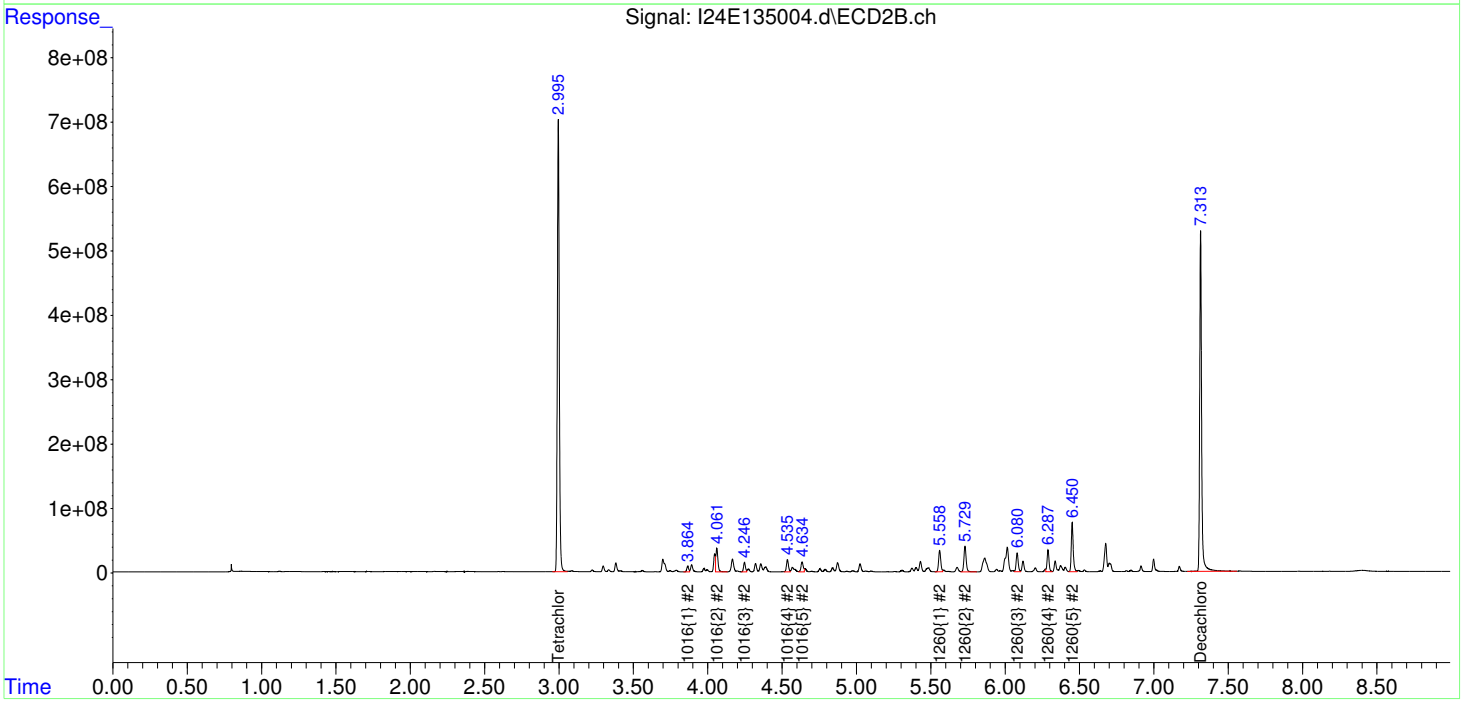
3511

Data Path : C:\msdchem\1\data\051424\
Data File : I24E135004.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 8:34 am
Operator : PJG
Sample : 1260/1016 100 24D0721 Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 14 10:22:14 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ECD 9	Calibration:	2400478
Lab File ID:	I24E135005.d	Calibration Date:	04/28/24 08:52
Sequence:	S104539	Injection Date:	05/14/24
Lab Sample ID:	S104539-CCV2	Injection Time:	08:46

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1254	A	100	98.5				-1.5	20
Aroclor-1254 [2C]	A	100	94.1				-5.9	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : I24E135005.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 8:46 am
Operator : PJG
Sample : 1254 100 23L0189 Inst : ECD 9
Misc : mix[l6]
ALS Vial : 5 Sample Multiplier: 1

3513

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 14 10:22:16 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
2) S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
3) L1	1016{1}	0.000	0.000	0	0	N.D.	N.D.
4) L1	1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1	1016{3}	0.000	0.000	0	0	N.D.	N.D.
6) L1	1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1	1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9) L7	1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7	1260{3}	0.000	0.000	0	0	N.D. d	N.D. d
11) L7	1260{4}	0.000	0.000	0	0	N.D. d	N.D. d
12) L7	1260{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13) L6	1254{1}	4.787	4.872	288.7E6	249.6E6	96.379	94.672
14) L6	1254{2}	5.226	5.023	318.0E6	282.2E6	97.003	92.949
15) L6	1254{3}	5.326	5.305	522.3E6	231.5E6	97.375	94.638
16) L6	1254{4}	5.556	5.400	411.4E6	414.3E6	99.067	95.704
17) L6	1254{5}	5.933	6.014	568.6E6	442.6E6	102.743	92.421
Sum	1254			2109.0E6	1620.1E6	492.567	470.384
Average	1254					98.513	94.077
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D.	N.D.
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D.	N.D.
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D.	N.D.
29) L3	1232{2}	0.000	0.000	0	0	N.D.	N.D.
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\051424\
Data File : I24E135005.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 8:46 am
Operator : PJG
Sample : 1254 100 23L0189 Inst : ECD 9
Misc : mix[l6]
ALS Vial : 5 Sample Multiplier: 1

3514

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 14 10:22:16 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D.	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D.	N.D.
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	0.000	0.000	0	0	N.D.	N.D.
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D.
40)	L2 1221{3}	0.000	0.000	0	0	N.D.	N.D. d
	Sum 1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D. d	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

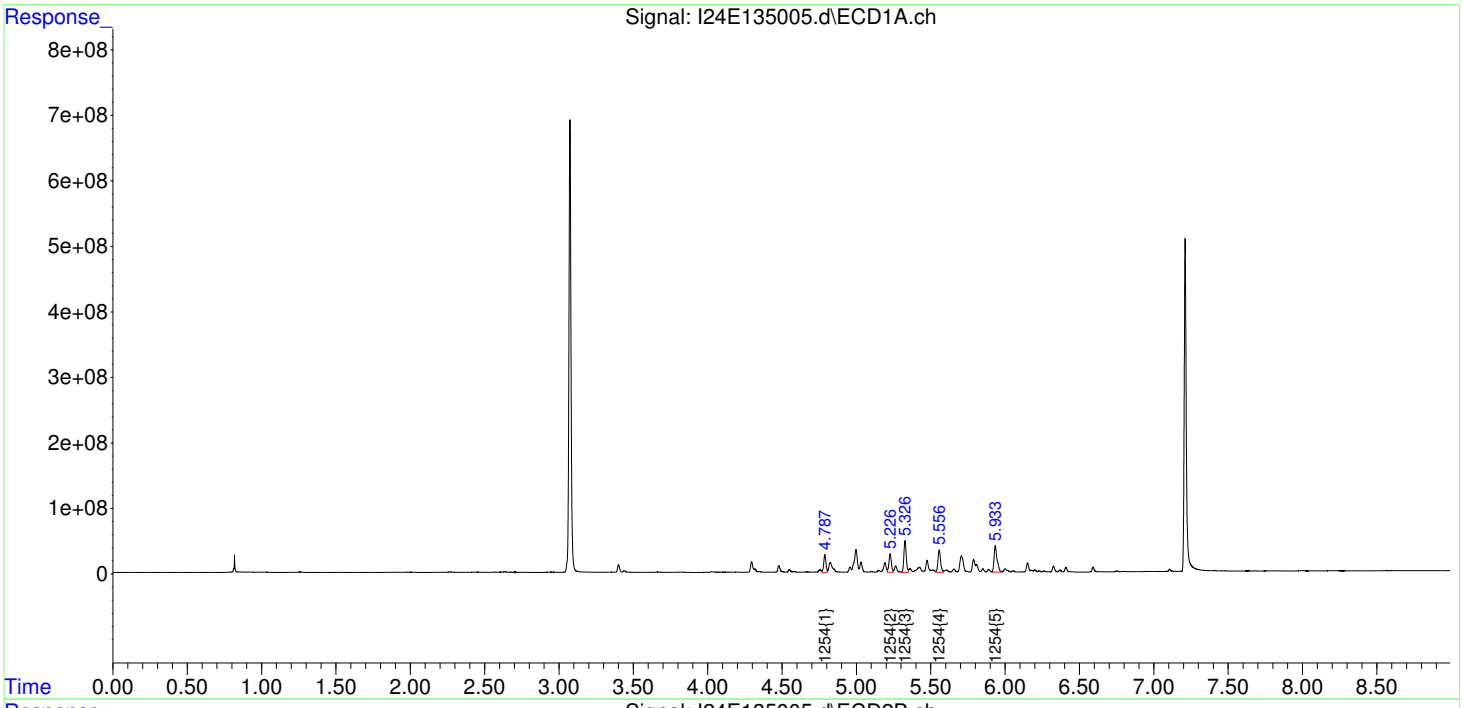
Quantitation Report (QT Reviewed)

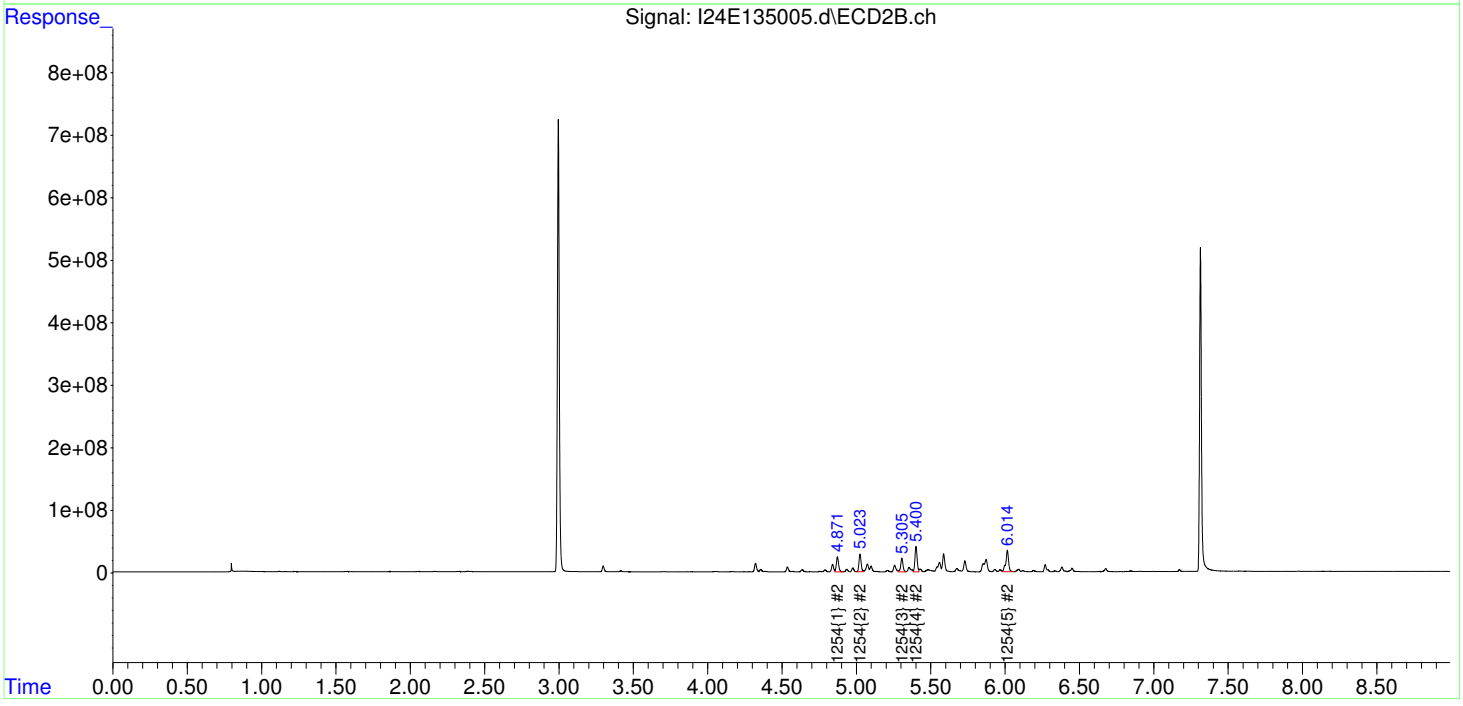
Data Path : C:\msdchem\1\data\051424\
Data File : I24E135005.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 8:46 am
Operator : PJG
Sample : 1254 100 23L0189 Inst : ECD 9
Misc : mix[l6]
ALS Vial : 5 Sample Multiplier: 1

3515

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 14 10:22:16 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ECD 9	Calibration:	2400478
Lab File ID:	I24E135006.d	Calibration Date:	04/28/24 08:52
Sequence:	S104539	Injection Date:	05/14/24
Lab Sample ID:	S104539-CCV3	Injection Time:	08:57

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1248	A	100	102				2.4	20
Aroclor-1248 [2C]	A	100	100				0.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : I24E135006.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 8:57 am
Operator : PJG
Sample : 1248 100 24B0832 Inst : ECD 9
Misc : mix[l5]
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 14 10:22:18 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
2) S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
3) L1	1016{1}	0.000	0.000	0	0	N.D. d	N.D. d
4) L1	1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1	1016{3}	0.000	0.000	0	0	N.D. d	N.D. d
6) L1	1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1	1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9) L7	1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7	1260{3}	0.000	0.000	0	0	N.D. d	N.D.
11) L7	1260{4}	0.000	0.000	0	0	N.D.	N.D. d
12) L7	1260{5}	0.000	0.000	0	0	N.D. d	N.D.
Sum	1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	4.295	4.321	179.1E6	155.9E6	97.142	98.685
19) L5	1248{2}	4.478	4.535	266.0E6	206.0E6	103.802	101.293
20) L5	1248{3}	4.549	4.634	183.8E6	230.6E6	104.086	100.247
21) L5	1248{4}	4.822	4.839	312.8E6	241.5E6	105.615	100.646
22) L5	1248{5}	4.846	4.876	289.1E6	281.0E6	101.123	100.661
Sum	1248			1230.9E6	1115.0E6	511.768	501.532
Average	1248					102.354	100.306
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\051424\
Data File : I24E135006.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 8:57 am
Operator : PJG
Sample : 1248 100 24B0832 Inst : ECD 9
Misc : mix[l5]
ALS Vial : 6 Sample Multiplier: 1

3518

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 14 10:22:18 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D.	N.D.
34)	L9 1268{2}	0.000	0.000	0	0	N.D.	N.D.
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D.	N.D.
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	0.000	0.000	0	0	N.D.	N.D.
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D.
40)	L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D.	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D.
44)	L8 1262{4}	0.000	0.000	0	0	N.D.	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D.
	Sum 1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

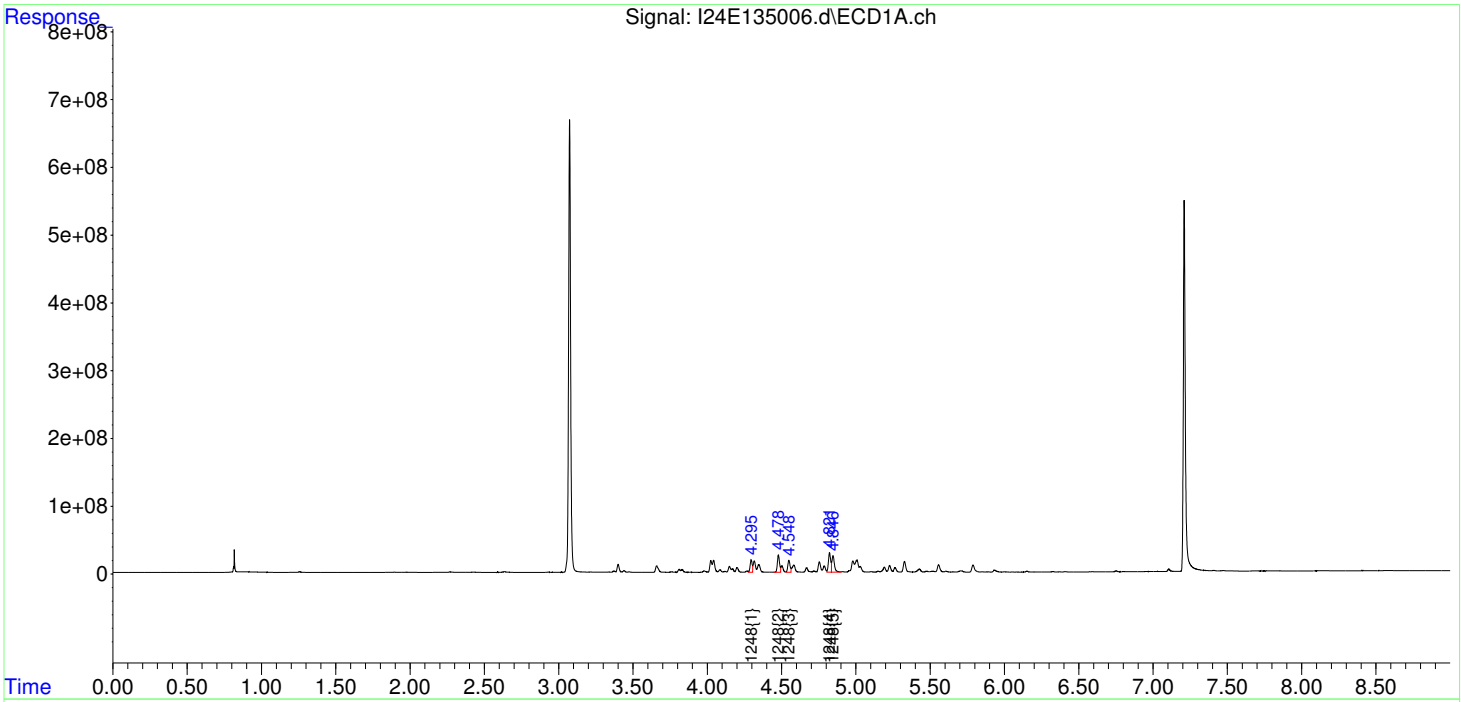
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

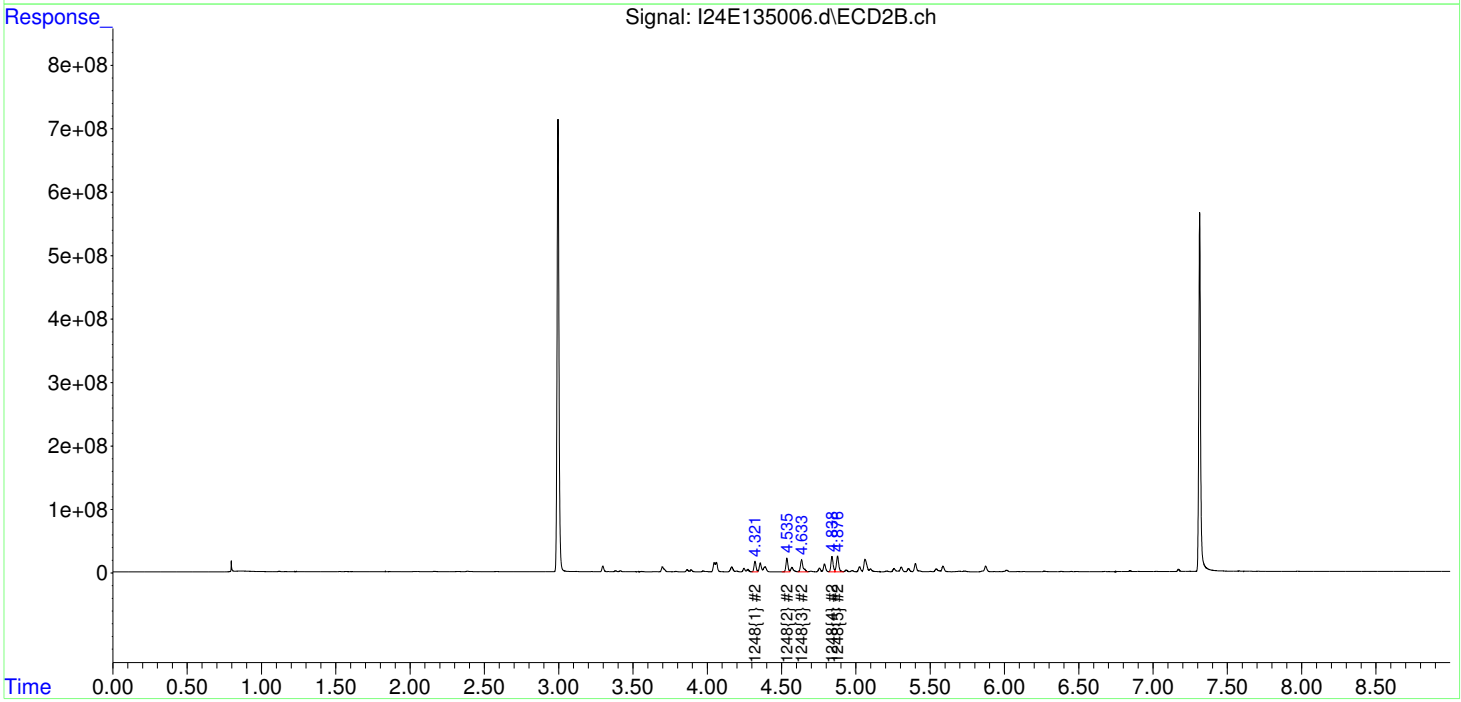
Data Path : C:\msdchem\1\data\051424\
Data File : I24E135006.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 8:57 am
Operator : PJG
Sample : 1248 100 24B0832 Inst : ECD 9
Misc : mix[l5]
ALS Vial : 6 Sample Multiplier: 1

3519

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 14 10:22:18 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ECD 9	Calibration:	2400478
Lab File ID:	I24E135007.d	Calibration Date:	04/28/24 08:52
Sequence:	S104539	Injection Date:	05/14/24
Lab Sample ID:	S104539-CCV4	Injection Time:	09:09

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1242	A	100	94.0				-6.0	20
Aroclor-1242 [2C]	A	100	107				7.0	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Quantitation Report (QT Reviewed)

3521

Data Path : C:\msdchem\1\data\051424\
Data File : I24E135007.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 9:09 am
Operator : PJG
Sample : 1242 100 24B0852 Inst : ECD 9
Misc : mix[l4]
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 14 10:22:20 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
2) S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
3) L1	1016{1}	0.000	0.000	0	0	N.D. d	N.D. d
4) L1	1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1	1016{3}	0.000	0.000	0	0	N.D. d	N.D. d
6) L1	1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1	1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9) L7	1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7	1260{3}	0.000	0.000	0	0	N.D.	N.D.
11) L7	1260{4}	0.000	0.000	0	0	N.D.	N.D. d
12) L7	1260{5}	0.000	0.000	0	0	N.D. d	N.D.
Sum	1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	3.830	3.892	100.5E6	77672664	93.619	105.073
24) L4	1242{2}	4.043	4.061	316.5E6	250.1E6	96.589	110.767
25) L4	1242{3}	4.201	4.247	141.9E6	97346738	94.664	107.688
26) L4	1242{4}	4.479	4.536	171.6E6	133.1E6	93.625	106.308
27) L4	1242{5}	4.846	4.839	170.5E6	130.3E6	91.379	104.961
Sum	1242			901.0E6	688.5E6	469.876	534.798
Average	1242					93.975	106.960
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\051424\
Data File : I24E135007.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 9:09 am
Operator : PJG
Sample : 1242 100 24B0852 Inst : ECD 9
Misc : mix[l4]
ALS Vial : 7 Sample Multiplier: 1

3522

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 14 10:22:20 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D.
34)	L9 1268{2}	0.000	0.000	0	0	N.D.	N.D.
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D.	N.D.
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40)	L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D.	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D.	N.D.
44)	L8 1262{4}	0.000	0.000	0	0	N.D.	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D.
	Sum 1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

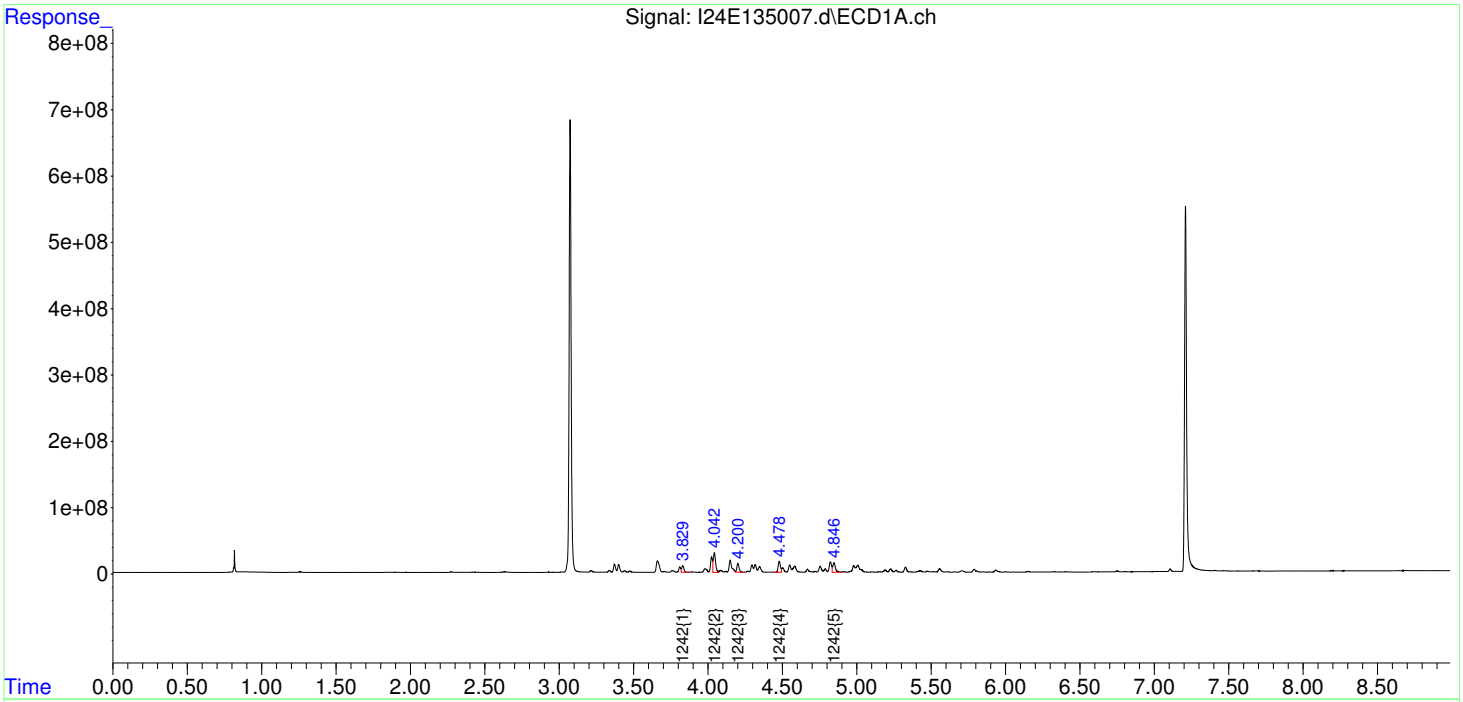
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

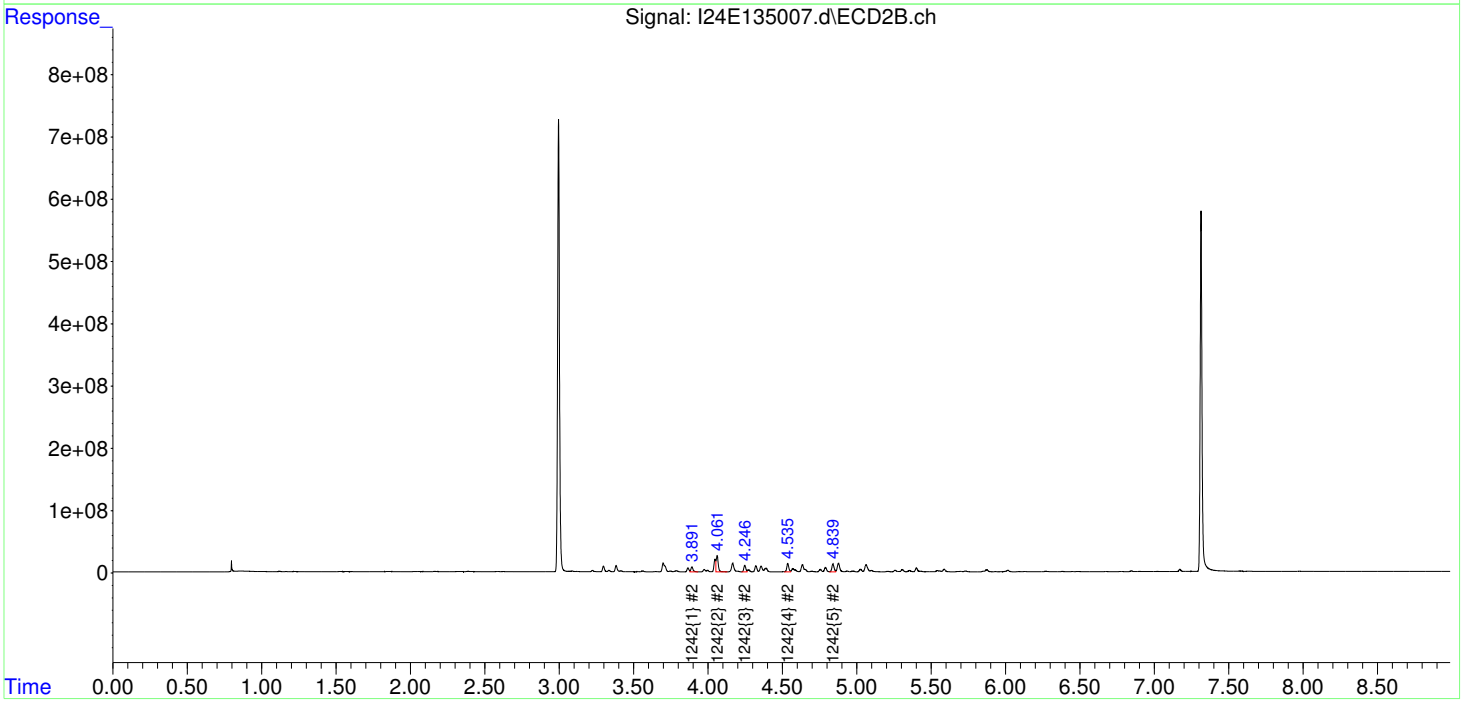
Data Path : C:\msdchem\1\data\051424\
Data File : I24E135007.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 9:09 am
Operator : PJG
Sample : 1242 100 24B0852 Inst : ECD 9
Misc : mix[l4]
ALS Vial : 7 Sample Multiplier: 1

3523

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 14 10:22:20 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ECD 9	Calibration:	2400478
Lab File ID:	I24E135008.d	Calibration Date:	04/28/24 08:52
Sequence:	S104539	Injection Date:	05/14/24
Lab Sample ID:	S104539-CCV5	Injection Time:	09:21

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1232	A	100	94.4				-5.6	20
Aroclor-1232 [2C]	A	100	104				3.9	20
Aroclor-1268	A	100	93.5				-6.5	20
Aroclor-1268 [2C]	A	100	104				3.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : I24E135008.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 9:21 am
Operator : PJG
Sample : 1232/1268 100 24C0355 Inst : ECD 9
Misc : mix[l3,l9]
ALS Vial : 8 Sample Multiplier: 1

3525

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 14 10:22:22 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
2) S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
3) L1	1016{1}	0.000	0.000	0	0	N.D. d	N.D. d
4) L1	1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1	1016{3}	0.000	0.000	0	0	N.D. d	N.D. d
6) L1	1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1	1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9) L7	1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7	1260{3}	0.000	0.000	0	0	N.D. d	N.D. d
11) L7	1260{4}	0.000	0.000	0	0	N.D. d	N.D. d
12) L7	1260{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	3.830	3.892	58960199	47296433	89.259	100.489
29) L3	1232{2}	4.149	4.247	134.2E6	57250561	94.683	104.416
30) L3	1232{3}	4.479	4.536	95123751	76197289	94.552	107.382
31) L3	1232{4}	4.549	4.839	63570203	75882639	94.011	103.586

Data Path : C:\msdchem\1\data\051424\
Data File : I24E135008.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 9:21 am
Operator : PJG
Sample : 1232/1268 100 24C0355 Inst : ECD 9
Misc : mix[l3,l9]
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 14 10:22:22 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	4.823	4.877	97944497	90769003	99.529	103.404
	Sum 1232			449.8E6	347.4E6	472.034	519.277
Average	1232					94.407	103.855
33)	L9 1268{1}	6.609	6.670	1023.5E6	866.7E6	97.335	105.430
34)	L9 1268{2}	6.633	6.698	1054.6E6	848.0E6	98.492	105.596
35)	L9 1268{3}	6.751	6.844	843.6E6	768.8E6	87.744	103.236
36)	L9 1268{4}	6.950	6.997	267.0E6	216.1E6	91.282	101.336
37)	L9 1268{5}	7.106	7.171	2285.9E6	2095.3E6	92.487	103.307
	Sum 1268			5474.6E6	4795.0E6	467.339	518.904
Average	1268					93.468	103.781
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40)	L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D.	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

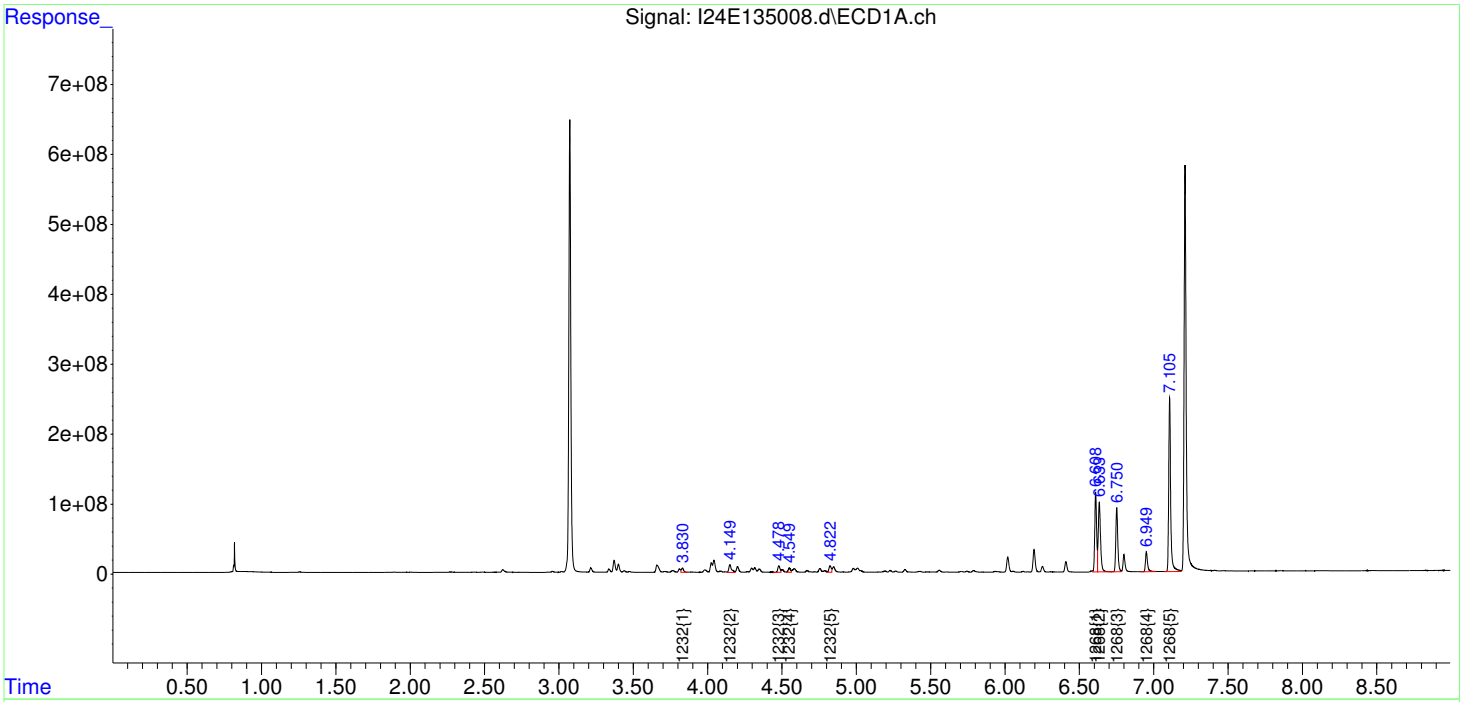
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

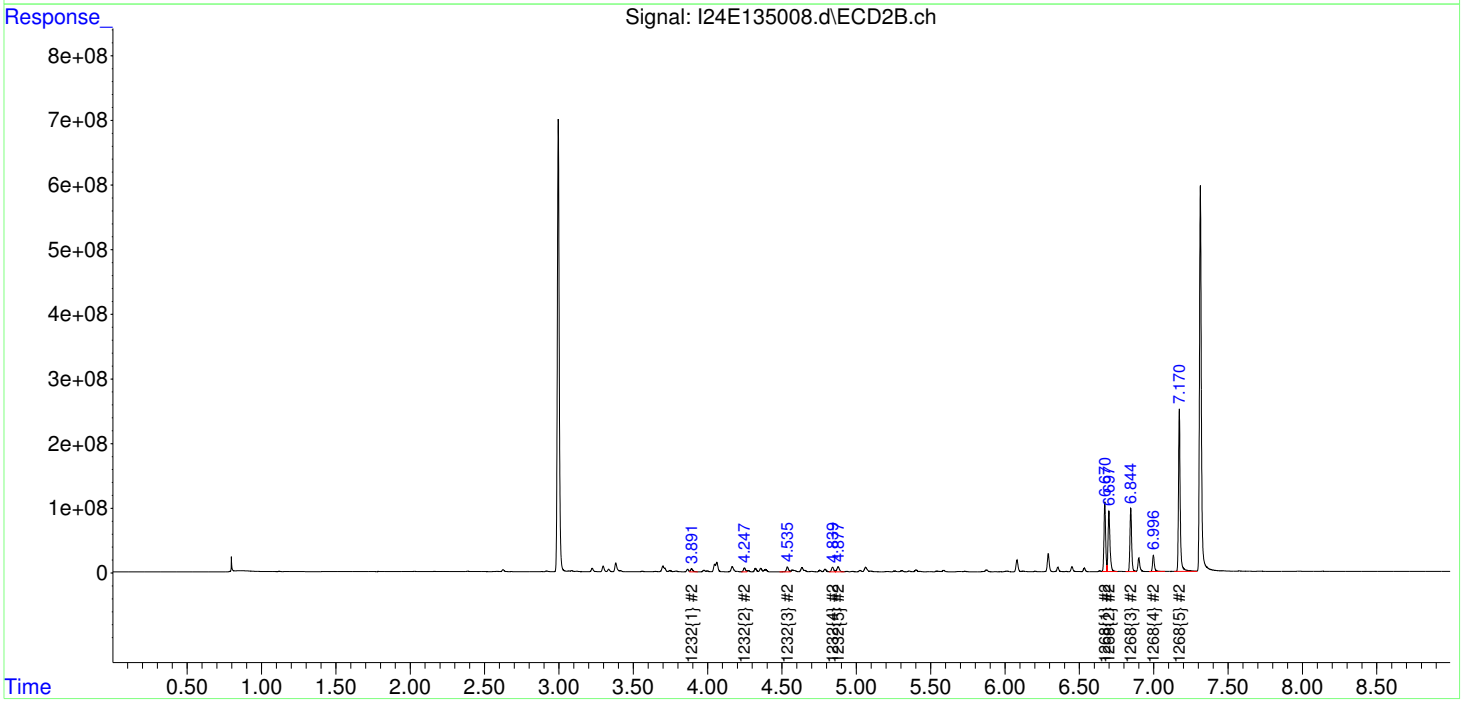
Data Path : C:\msdchem\1\data\051424\
Data File : I24E135008.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 9:21 am
Operator : PJG
Sample : 1232/1268 100 24C0355 Inst : ECD 9
Misc : mix[l3,l9]
ALS Vial : 8 Sample Multiplier: 1

3527

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 14 10:22:22 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ECD 9	Calibration:	2400478
Lab File ID:	I24E135009.d	Calibration Date:	04/28/24 08:52
Sequence:	S104539	Injection Date:	05/14/24
Lab Sample ID:	S104539-CCV6	Injection Time:	09:33

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1221	A	100	97.8				-2.2	20
Aroclor-1221 [2C]	A	100	106				5.5	20
Aroclor-1262	A	100	93.9				-6.1	20
Aroclor-1262 [2C]	A	100	102				1.7	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Quantitation Report (QT Reviewed)

3529

Data Path : C:\msdchem\1\data\051424\
Data File : I24E135009.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 9:33 am
Operator : PJG
Sample : 1221/1262 100 23L0791 Inst : ECD 9
Misc : mix[l2,l8]
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 14 10:22:24 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
2) S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
3) L1	1016{1}	0.000	0.000	0	0	N.D. d	N.D. d
4) L1	1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1	1016{3}	0.000	0.000	0	0	N.D. d	N.D. d
6) L1	1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1	1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9) L7	1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7	1260{3}	0.000	0.000	0	0	N.D. d	N.D. d
11) L7	1260{4}	0.000	0.000	0	0	N.D. d	N.D. d
12) L7	1260{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\051424\
Data File : I24E135009.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 9:33 am
Operator : PJG
Sample : 1221/1262 100 23L0791 Inst : ECD 9
Misc : mix[l2,l8]
ALS Vial : 9 Sample Multiplier: 1

3530

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 14 10:22:24 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	3.214	3.223	91757288	68553052	96.152	105.615
39)	L2 1221{2}	3.371	3.334	195.8E6	45758393	94.763	104.024
40)	L2 1221{3}	3.768	3.382	29827089	160.5E6	102.518	106.910
Sum	1221			317.4E6	274.8E6	293.433	316.550
Average	1221					97.811	105.517
41)	L8 1262{1}	5.360	5.430	189.3E6	143.0E6	93.180	100.906
42)	L8 1262{2}	5.702	5.729	438.5E6	294.7E6	93.810	101.544
43)	L8 1262{3}	6.017	6.080	470.8E6	362.4E6	95.096	102.493
44)	L8 1262{4}	6.199	6.288	425.8E6	344.7E6	94.133	101.546
45)	L8 1262{5}	6.407	6.450	941.3E6	733.7E6	93.411	101.982
Sum	1262			2465.7E6	1878.5E6	469.630	508.472
Average	1262					93.926	101.694

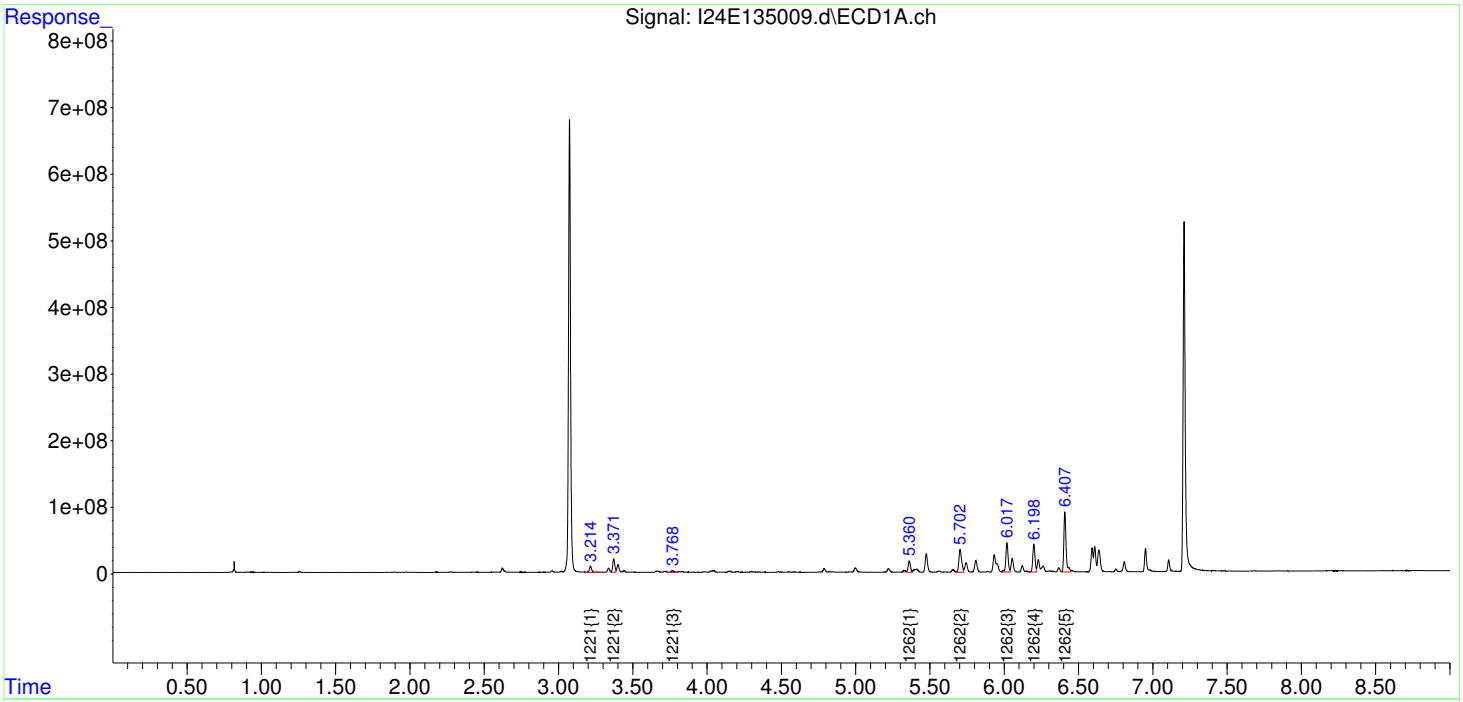
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

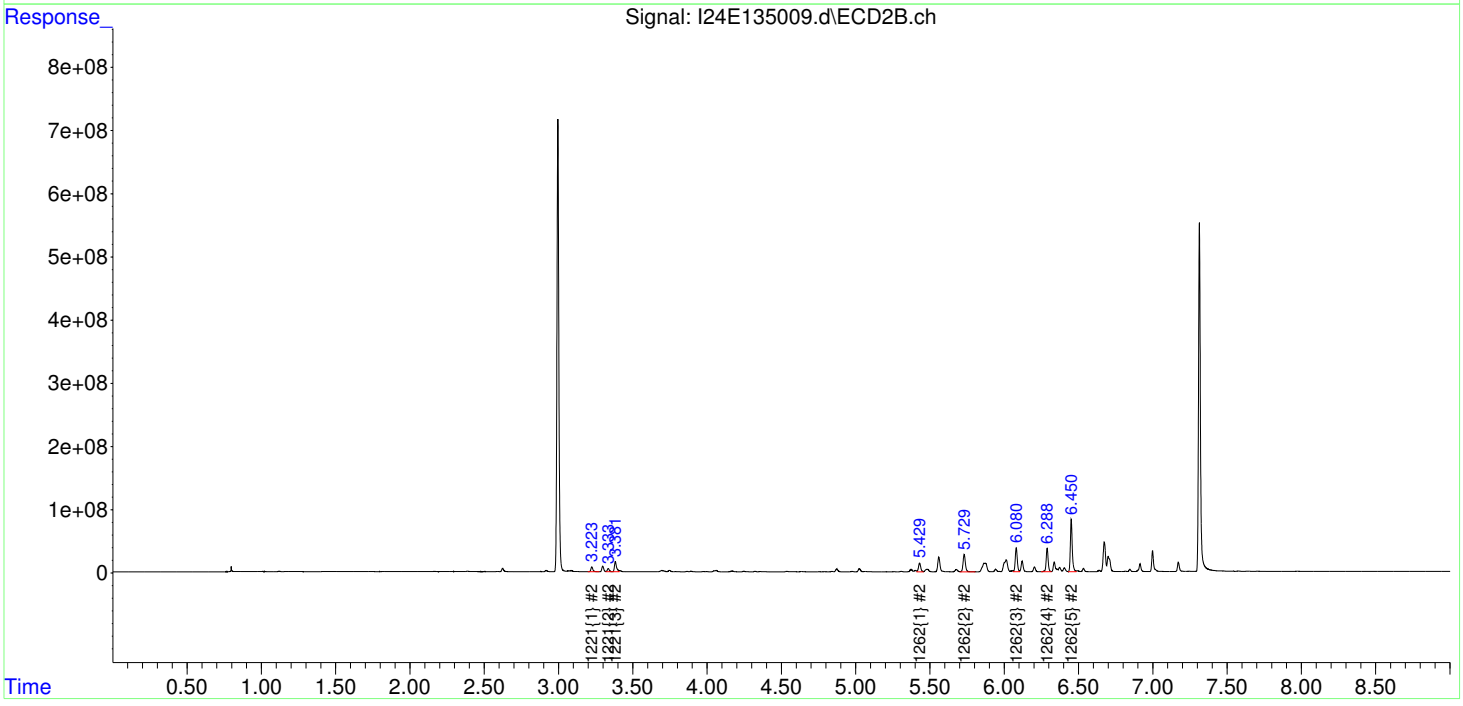
Data Path : C:\msdchem\1\data\051424\
Data File : I24E135009.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 9:33 am
Operator : PJG
Sample : 1221/1262 100 23L0791 Inst : ECD 9
Misc : mix[l2,l8]
ALS Vial : 9 Sample Multiplier: 1

3531

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 14 10:22:24 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ECD 9	Calibration:	2400478
Lab File ID:	I24E135029.d	Calibration Date:	04/28/24 08:52
Sequence:	S104539	Injection Date:	05/14/24
Lab Sample ID:	S104539-CCV7	Injection Time:	17:54

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	100	99.7				-0.3	20
Aroclor-1016 [2C]	A	100	103				2.9	20
Aroclor-1260	A	100	95.9				-4.1	20
Aroclor-1260 [2C]	A	100	92.8				-7.2	20
Decachlorobiphenyl	A	100	90.0	5.550539E+07	4.9979E+07		-10.0	
Decachlorobiphenyl [2C]	A	100	93.5	4.98069E+07	4.6581E+07		-6.5	
Tetrachloro-m-xylene	A	100	96.3	6.567614E+07	6.3265E+07		-3.7	
Tetrachloro-m-xylene [2C]	A	100	106	5.785597E+07	6.1116E+07		5.6	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Quantitation Report (QT Reviewed)

3533

Data Path : C:\msdchem\1\data\051424\
Data File : I24E135029.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 5:54 pm
Operator : PJG
Sample : 1260/1016 100 Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 15 07:20:54 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	3.072	2.996	6326.5E6	6111.6E6	96.327	105.635
2) S	Decachlor...	7.208	7.313	4997.9E6	4658.1E6	90.041	93.525
	Target Compounds						
3) L1	1016{1}	3.808	3.865	94726706	76374989	99.731	100.923
4) L1	1016{2}	4.040	4.061	413.4E6	346.5E6	101.331	107.051
5) L1	1016{3}	4.147	4.247	292.3E6	134.8E6	99.023	103.385
6) L1	1016{4}	4.476	4.536	213.4E6	171.9E6	99.088	101.931
7) L1	1016{5}	4.547	4.634	143.2E6	160.7E6	99.412	101.454
Sum	1016			1157.1E6	890.3E6	498.585	514.743
Average	1016					99.717	102.949
8) L7	1260{1}	5.472	5.559	416.6E6	328.6E6	99.379	95.200
9) L7	1260{2}	5.700	5.729	633.8E6	402.4E6	101.989	99.808
10) L7	1260{3}	6.016	6.080	364.2E6	272.9E6	91.298	90.263
11) L7	1260{4}	6.197	6.288	378.4E6	296.4E6	93.900	86.823
12) L7	1260{5}	6.405	6.450	784.9E6	662.4E6	92.892	91.862
Sum	1260			2577.8E6	1962.6E6	479.459	463.958
Average	1260					95.892	92.792
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\051424\
Data File : I24E135029.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 5:54 pm
Operator : PJG
Sample : 1260/1016 100 Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 29 Sample Multiplier: 1

3534

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 15 07:20:54 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40)	L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D. d	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

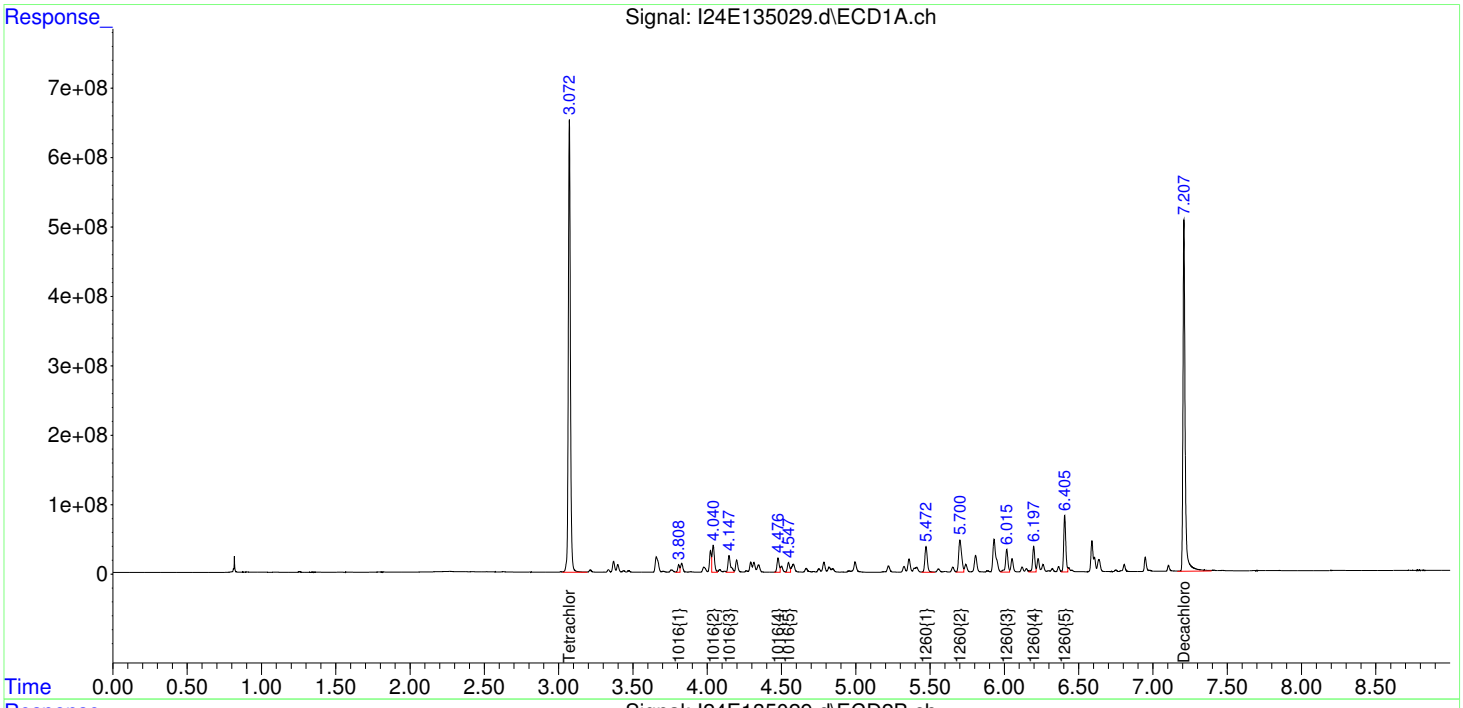
Quantitation Report (QT Reviewed)

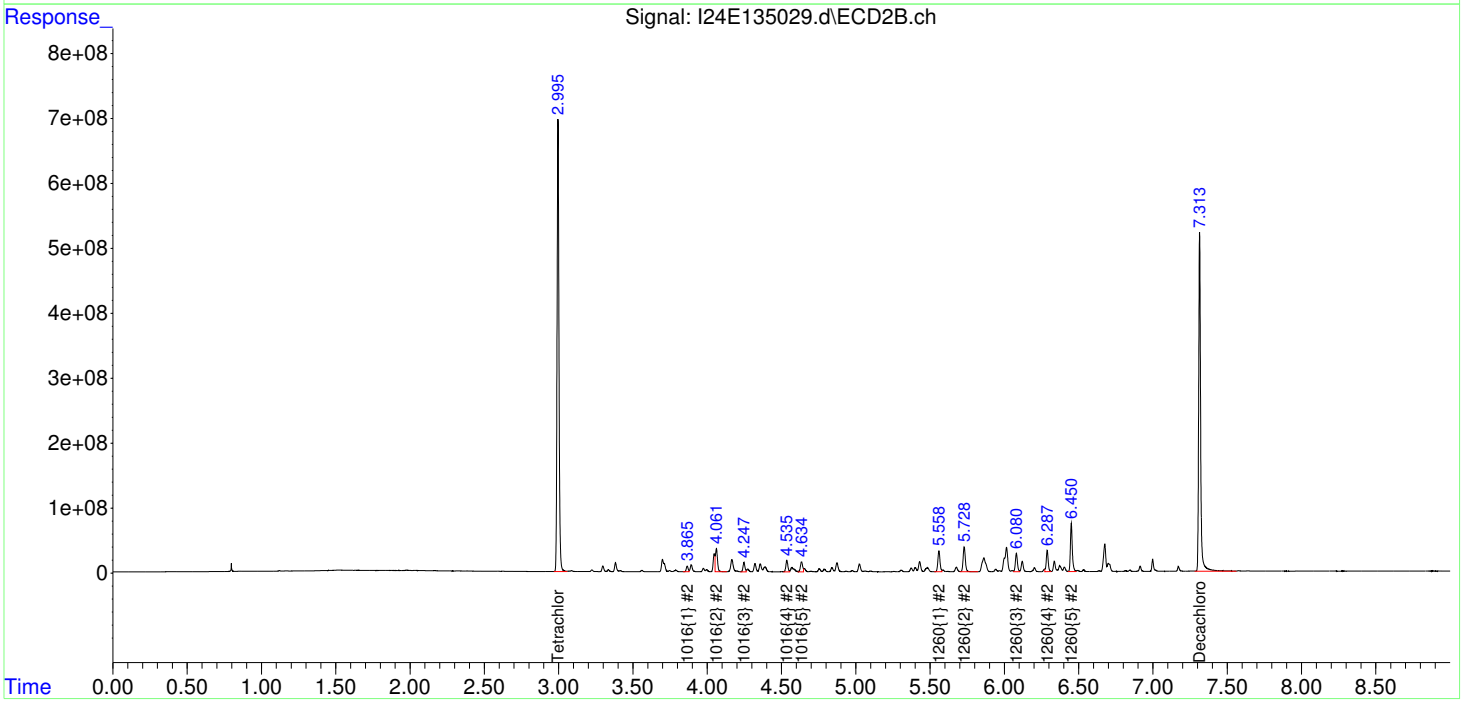
3535

Data Path : C:\msdchem\1\data\051424\
Data File : I24E135029.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 5:54 pm
Operator : PJG
Sample : 1260/1016 100 Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 15 07:20:54 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ECD 9	Calibration:	2400478
Lab File ID:	I24E135045.d	Calibration Date:	04/28/24 08:52
Sequence:	S104539	Injection Date:	05/14/24
Lab Sample ID:	S104539-CCV8	Injection Time:	22:19

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	100	102				1.7	20
Aroclor-1016 [2C]	A	100	106				6.2	20
Aroclor-1260	A	100	98.6				-1.4	20
Aroclor-1260 [2C]	A	100	99.4				-0.6	20
Decachlorobiphenyl	A	100	91.2	5.550539E+07	5.0643E+07		-8.8	
Decachlorobiphenyl [2C]	A	100	95.1	4.98069E+07	4.738E+07		-4.9	
Tetrachloro-m-xylene	A	100	98.2	6.567614E+07	6.4511E+07		-1.8	
Tetrachloro-m-xylene [2C]	A	100	108	5.785597E+07	6.2494E+07		8.0	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Quantitation Report (QT Reviewed)

3537

Data Path : C:\msdchem\1\data\051424\
Data File : I24E135045.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 10:19 pm
Operator : PJG
Sample : 1260/1016 100 Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 45 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 15 07:21:26 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	3.072	2.995	6451.1E6	6249.4E6	98.224	108.016
2) S	Decachlor...	7.207	7.313	5064.3E6	4738.0E6	91.237	95.128
	Target Compounds						
3) L1	1016{1}	3.808	3.865	96055475	78523042	101.130	103.761
4) L1	1016{2}	4.040	4.061	421.7E6	358.8E6	103.356	110.868
5) L1	1016{3}	4.147	4.247	299.1E6	139.1E6	101.301	106.644
6) L1	1016{4}	4.476	4.535	218.0E6	177.3E6	101.195	105.117
7) L1	1016{5}	4.546	4.634	146.5E6	165.8E6	101.723	104.719
Sum	1016			1181.3E6	919.6E6	508.705	531.109
Average	1016					101.741	106.222
8) L7	1260{1}	5.472	5.558	426.3E6	366.1E6	101.698	106.060
9) L7	1260{2}	5.699	5.729	650.2E6	419.2E6	104.624	103.974
10) L7	1260{3}	6.014	6.079	375.7E6	283.5E6	94.188	93.772
11) L7	1260{4}	6.196	6.287	389.4E6	333.6E6	96.634	97.741
12) L7	1260{5}	6.405	6.449	810.5E6	688.0E6	95.926	95.417
Sum	1260			2652.1E6	2090.4E6	493.070	496.963
Average	1260					98.614	99.393
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\051424\
Data File : I24E135045.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 10:19 pm
Operator : PJG
Sample : 1260/1016 100 Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 45 Sample Multiplier: 1

3538

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 15 07:21:26 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40)	L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D. d	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

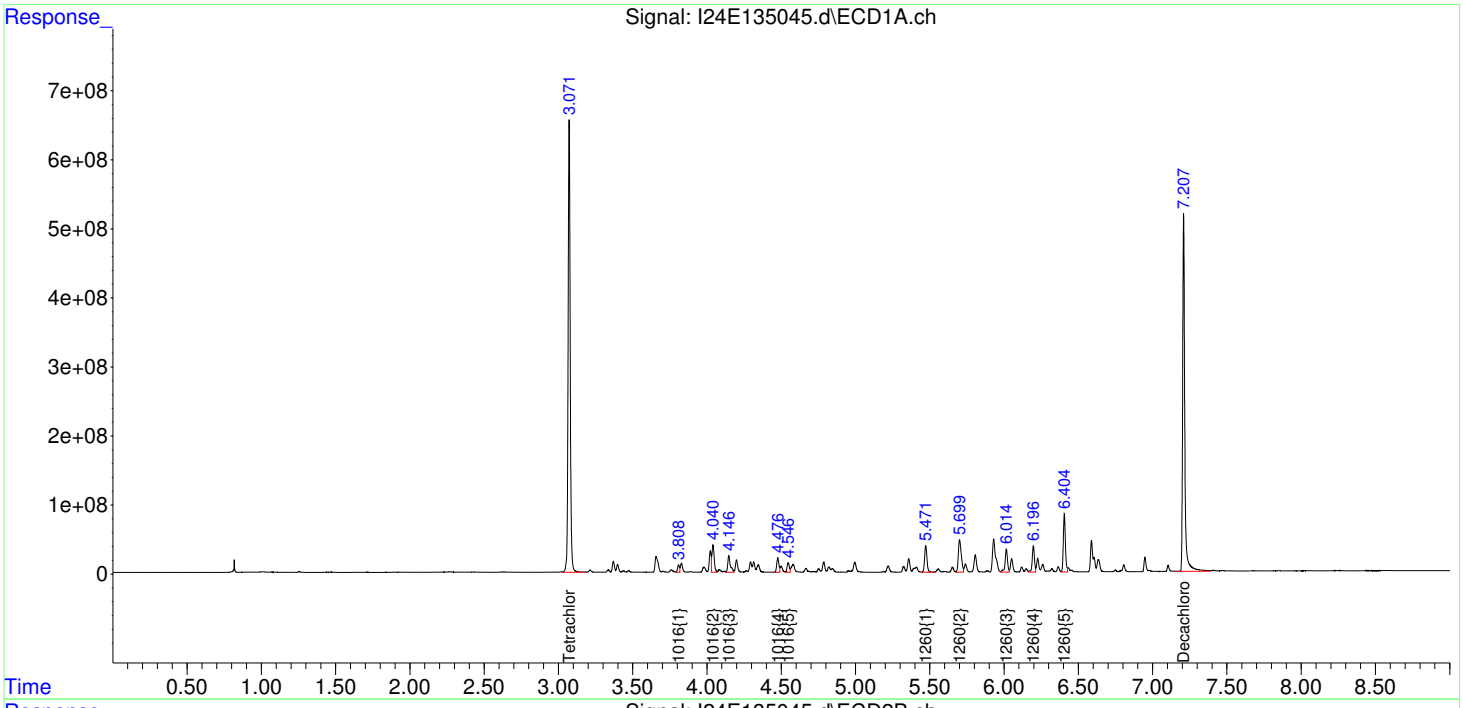
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

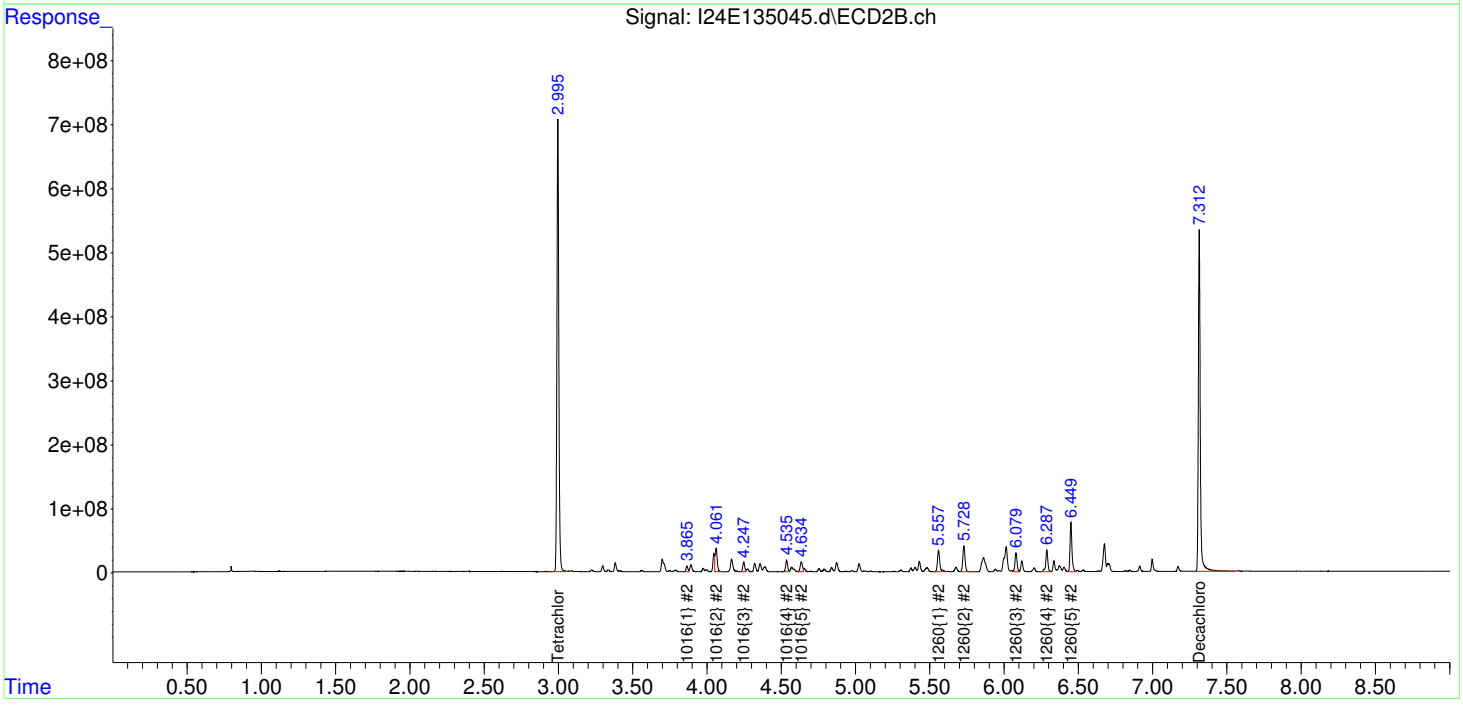
Data Path : C:\msdchem\1\data\051424\
Data File : I24E135045.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 10:19 pm
Operator : PJG
Sample : 1260/1016 100 Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 45 Sample Multiplier: 1

3539

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 15 07:21:26 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ECD 9	Calibration:	2400478
Lab File ID:	I24E135046.d	Calibration Date:	04/28/24 08:52
Sequence:	S104539	Injection Date:	05/14/24
Lab Sample ID:	S104539-CCV9	Injection Time:	22:31

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1254	A	100	97.4				-2.6	20
Aroclor-1254 [2C]	A	100	96.9				-3.1	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Quantitation Report (QT Reviewed)

3541

Data Path : C:\msdchem\1\data\051424\
Data File : I24E135046.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 10:31 pm
Operator : PJG
Sample : 1254 100 Inst : ECD 9
Misc : mix[l6]
ALS Vial : 46 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 15 07:21:28 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
2) S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
3) L1	1016{1}	0.000	0.000	0	0	N.D. d	N.D. d
4) L1	1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1	1016{3}	0.000	0.000	0	0	N.D. d	N.D. d
6) L1	1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1	1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9) L7	1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7	1260{3}	0.000	0.000	0	0	N.D. d	N.D. d
11) L7	1260{4}	0.000	0.000	0	0	N.D. d	N.D. d
12) L7	1260{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13) L6	1254{1}	4.786	4.871	285.7E6	258.2E6	95.388	97.903
14) L6	1254{2}	5.225	5.023	315.1E6	293.8E6	96.105	96.779
15) L6	1254{3}	5.325	5.305	517.7E6	236.5E6	96.511	96.713
16) L6	1254{4}	5.554	5.399	407.8E6	423.2E6	98.217	97.755
17) L6	1254{5}	5.932	6.014	558.1E6	456.4E6	100.859	95.316
Sum	1254			2084.5E6	1668.1E6	487.080	484.467
Average	1254					97.416	96.893
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\051424\
Data File : I24E135046.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 10:31 pm
Operator : PJG
Sample : 1254 100 Inst : ECD 9
Misc : mix[l6]
ALS Vial : 46 Sample Multiplier: 1

3542

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 15 07:21:28 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32) L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232			0	0	N.D.	N.D.
Average 1232					0.000	0.000
33) L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34) L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35) L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36) L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37) L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268			0	0	N.D.	N.D.
Average 1268					0.000	0.000
38) L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D.
39) L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D.
40) L2 1221{3}	0.000	0.000	0	0	N.D.	N.D. d
Sum 1221			0	0	N.D.	N.D.
Average 1221					0.000	0.000
41) L8 1262{1}	0.000	0.000	0	0	N.D. d	N.D. d
42) L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43) L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44) L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45) L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262			0	0	N.D.	N.D.
Average 1262					0.000	0.000

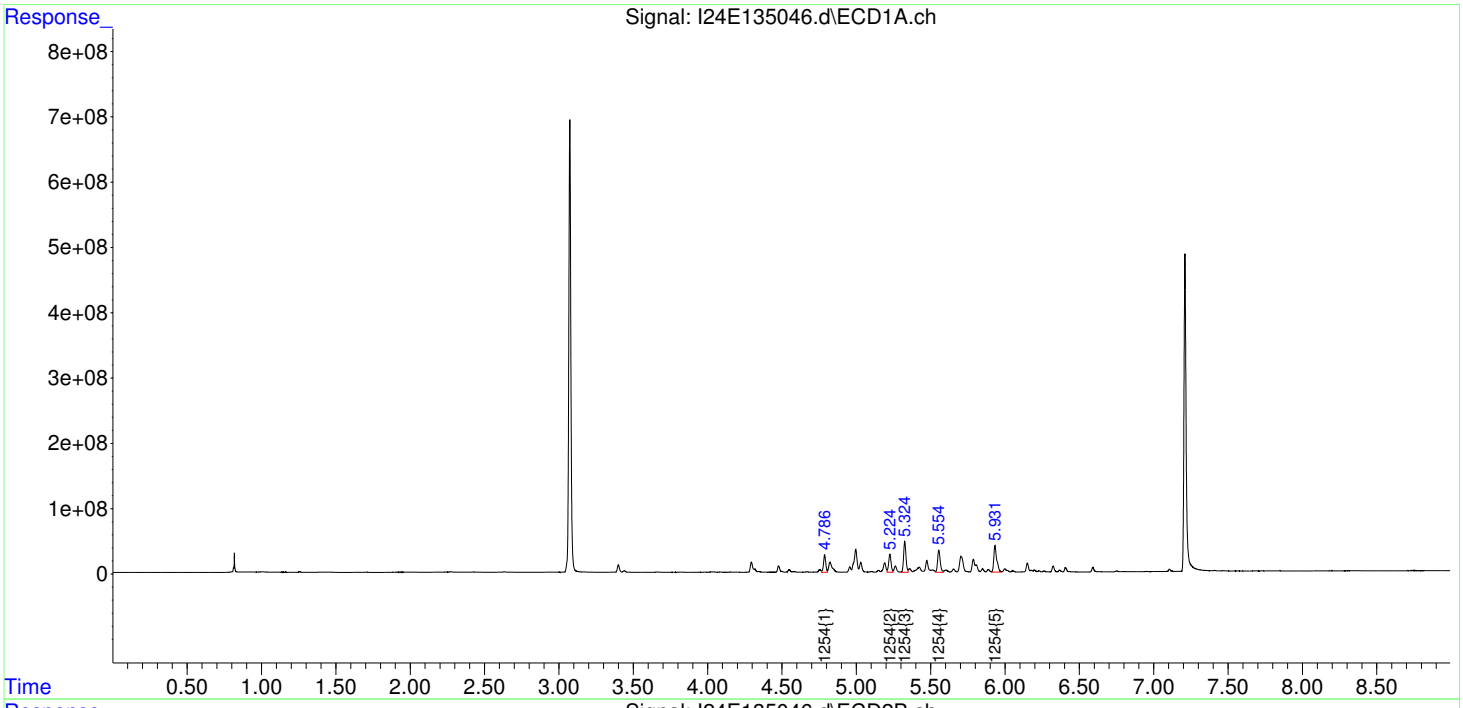
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

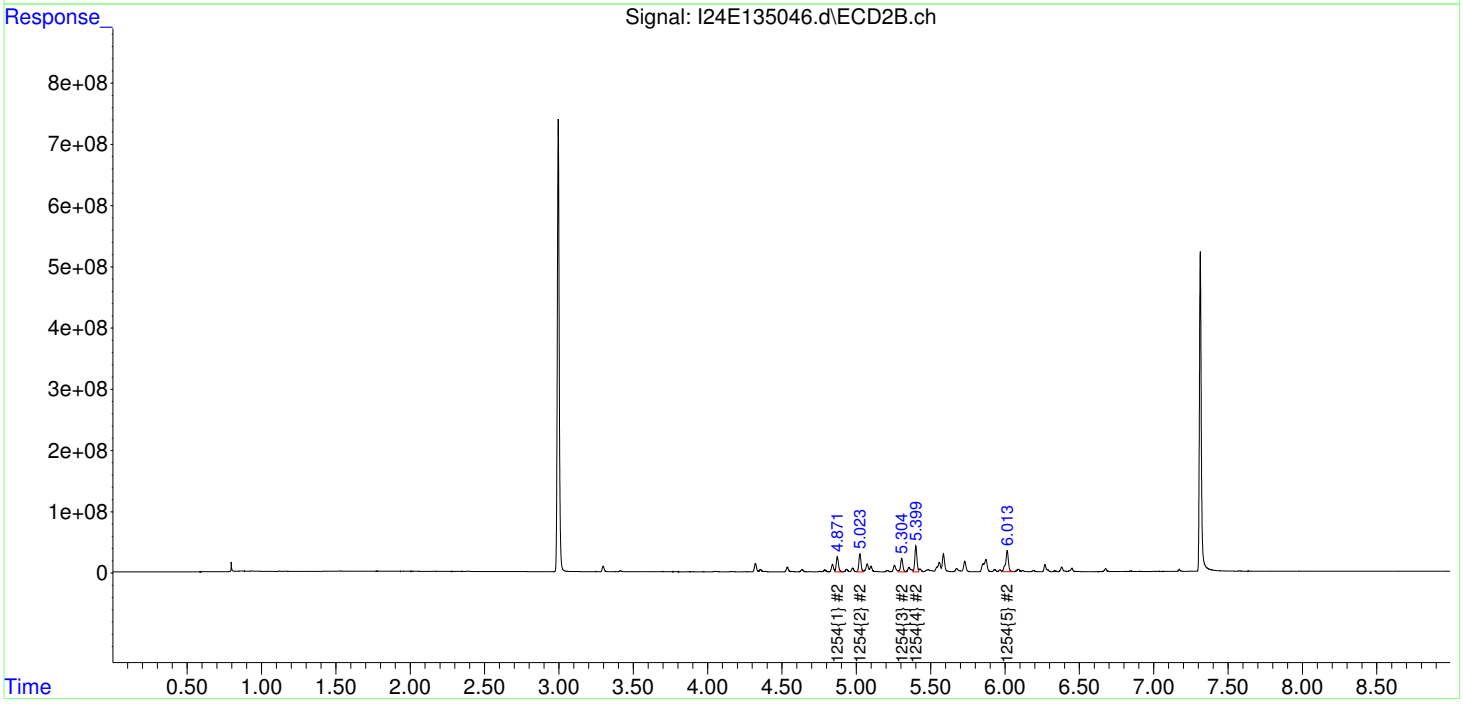
Data Path : C:\msdchem\1\data\051424\
Data File : I24E135046.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 10:31 pm
Operator : PJG
Sample : 1254 100 Inst : ECD 9
Misc : mix[l6]
ALS Vial : 46 Sample Multiplier: 1

3543

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 15 07:21:28 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ECD 9	Calibration:	2400478
Lab File ID:	I24E135047.d	Calibration Date:	04/28/24 08:52
Sequence:	S104539	Injection Date:	05/14/24
Lab Sample ID:	S104539-CCVA	Injection Time:	22:43

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1248	A	100	101				0.9	20
Aroclor-1248 [2C]	A	100	103				2.7	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : I24E135047.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 10:43 pm
Operator : PJG
Sample : 1248 100 Inst : ECD 9
Misc : mix[l5]
ALS Vial : 47 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 15 07:21:30 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
2) S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
3) L1	1016{1}	0.000	0.000	0	0	N.D. d	N.D. d
4) L1	1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1	1016{3}	0.000	0.000	0	0	N.D. d	N.D. d
6) L1	1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1	1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9) L7	1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7	1260{3}	0.000	0.000	0	0	N.D. d	N.D. d
11) L7	1260{4}	0.000	0.000	0	0	N.D. d	N.D. d
12) L7	1260{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	4.295	4.321	175.9E6	159.8E6	95.437	101.154
19) L5	1248{2}	4.478	4.536	261.6E6	210.3E6	102.078	103.450
20) L5	1248{3}	4.548	4.634	181.4E6	236.6E6	102.720	102.828
21) L5	1248{4}	4.821	4.838	308.8E6	248.1E6	104.239	103.382
22) L5	1248{5}	4.845	4.876	285.8E6	286.7E6	99.962	102.699
Sum	1248			1213.5E6	1141.5E6	504.436	513.514
Average	1248					100.887	102.703
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\051424\
Data File : I24E135047.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 10:43 pm
Operator : PJG
Sample : 1248 100 Inst : ECD 9
Misc : mix[l5]
ALS Vial : 47 Sample Multiplier: 1

3546

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 15 07:21:30 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40)	L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D.	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

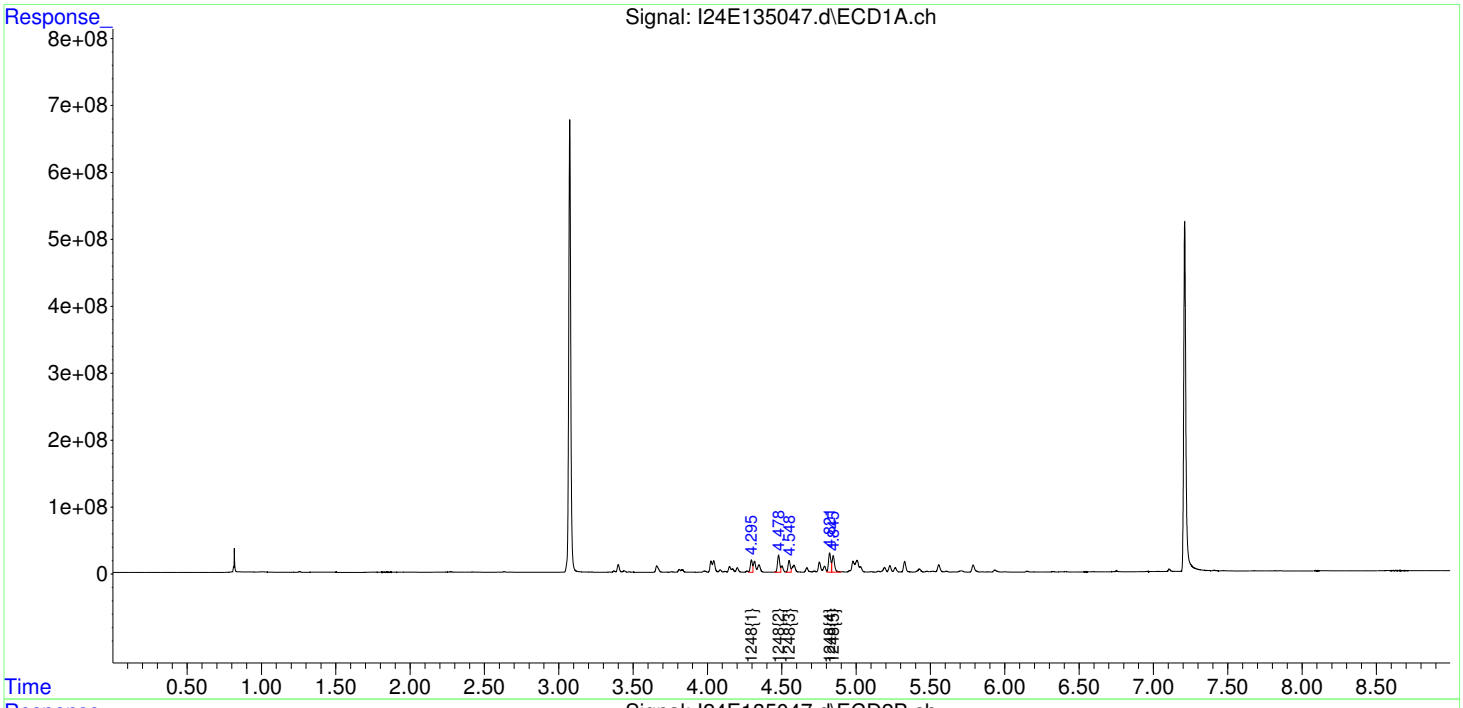
Quantitation Report (QT Reviewed)

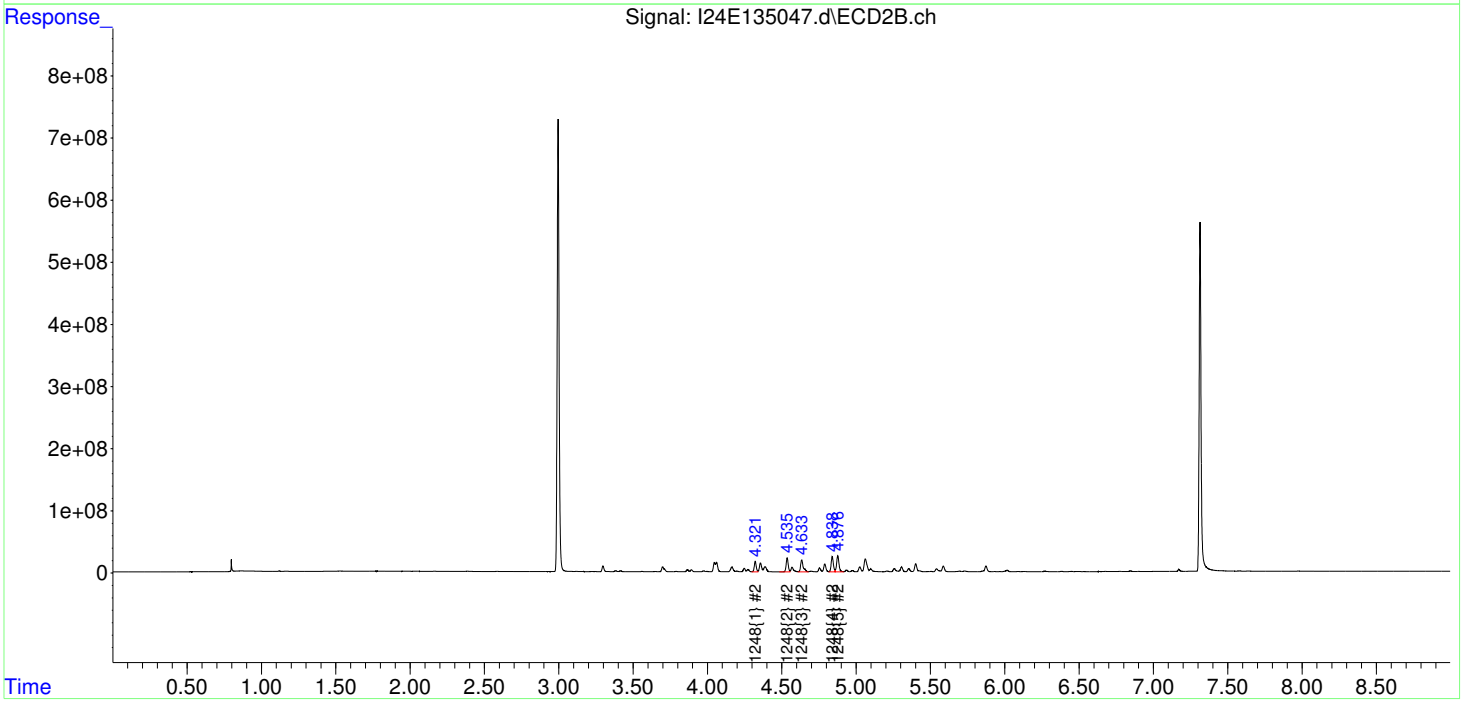
3547

Data Path : C:\msdchem\1\data\051424\
Data File : I24E135047.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 10:43 pm
Operator : PJG
Sample : 1248 100 Inst : ECD 9
Misc : mix[l5]
ALS Vial : 47 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 15 07:21:30 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ECD 9	Calibration:	2400478
Lab File ID:	I24E135048.d	Calibration Date:	04/28/24 08:52
Sequence:	S104539	Injection Date:	05/14/24
Lab Sample ID:	S104539-CCVB	Injection Time:	22:55

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1242	A	100	93.3				-6.7	20
Aroclor-1242 [2C]	A	100	110				9.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Quantitation Report (QT Reviewed)

3549

Data Path : C:\msdchem\1\data\051424\
Data File : I24E135048.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 10:55 pm
Operator : PJG
Sample : 1242 100 Inst : ECD 9
Misc : mix[l4]
ALS Vial : 48 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 15 07:21:32 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
2) S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
3) L1	1016{1}	0.000	0.000	0	0	N.D. d	N.D. d
4) L1	1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1	1016{3}	0.000	0.000	0	0	N.D. d	N.D. d
6) L1	1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1	1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9) L7	1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7	1260{3}	0.000	0.000	0	0	N.D. d	N.D. d
11) L7	1260{4}	0.000	0.000	0	0	N.D. d	N.D. d
12) L7	1260{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	3.830	3.892	102.5E6	80214358	95.410	108.511
24) L4	1242{2}	4.042	4.061	310.1E6	257.3E6	94.620	113.981
25) L4	1242{3}	4.200	4.247	139.7E6	100.5E6	93.249	111.220
26) L4	1242{4}	4.478	4.535	168.9E6	135.4E6	92.163	108.177
27) L4	1242{5}	4.846	4.839	169.7E6	133.2E6	90.944	107.331
Sum	1242			890.9E6	706.8E6	466.386	549.221
Average	1242					93.277	109.844
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\051424\
Data File : I24E135048.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 10:55 pm
Operator : PJG
Sample : 1242 100 Inst : ECD 9
Misc : mix[l4]
ALS Vial : 48 Sample Multiplier: 1

3550

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 15 07:21:32 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D.	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D.	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40)	L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D. d	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

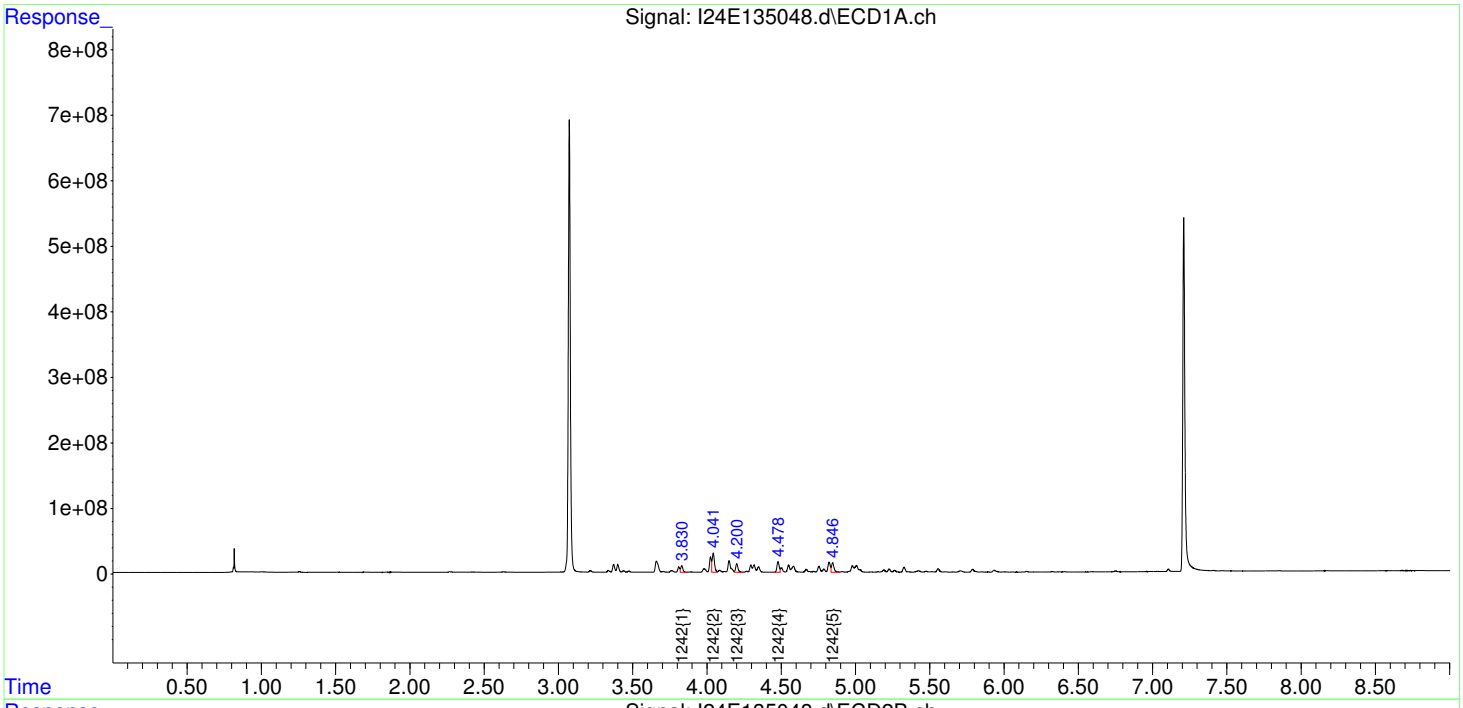
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

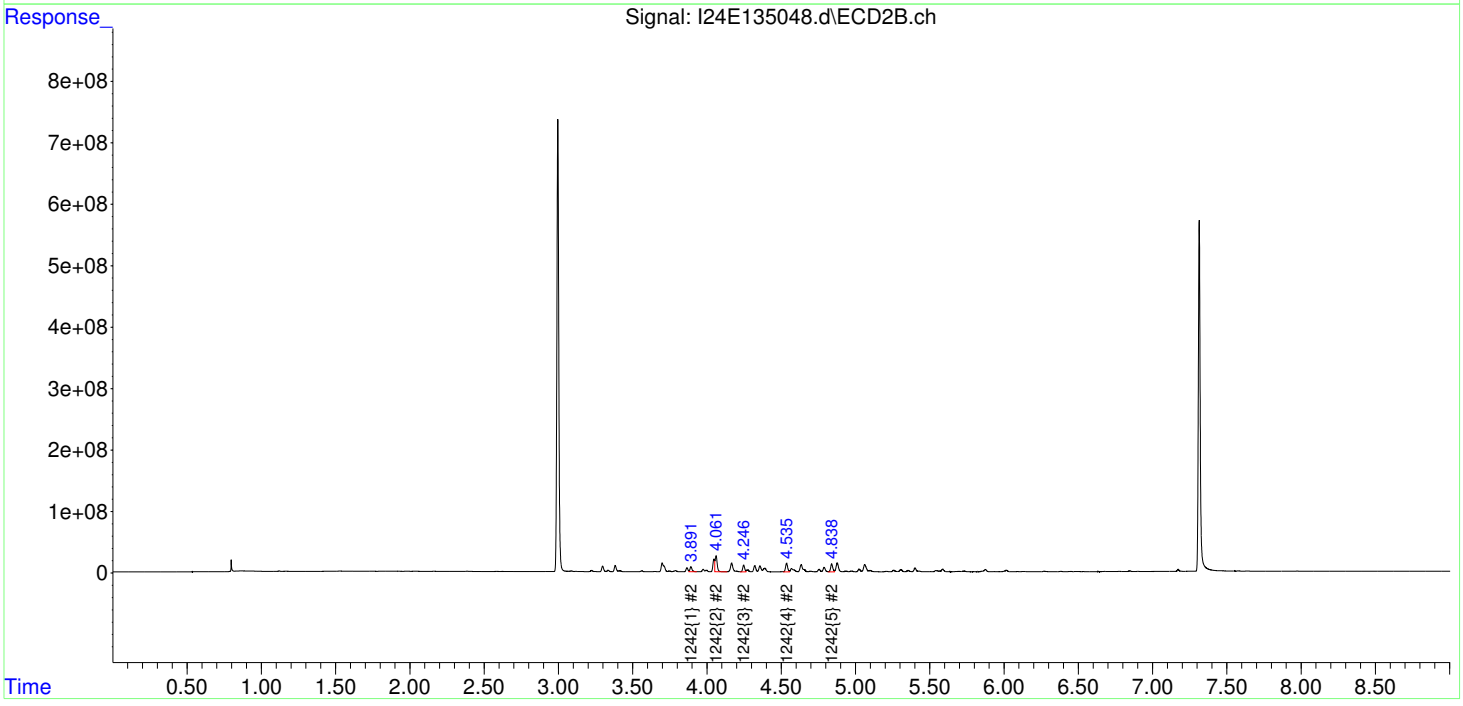
Data Path : C:\msdchem\1\data\051424\
Data File : I24E135048.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 10:55 pm
Operator : PJG
Sample : 1242 100 Inst : ECD 9
Misc : mix[l4]
ALS Vial : 48 Sample Multiplier: 1

3551

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 15 07:21:32 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ECD 9	Calibration:	2400478
Lab File ID:	I24E135049.d	Calibration Date:	04/28/24 08:52
Sequence:	S104539	Injection Date:	05/14/24
Lab Sample ID:	S104539-CCVC	Injection Time:	23:06

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1232	A	100	96.4				-3.6	20
Aroclor-1232 [2C]	A	100	108				7.6	20
Aroclor-1268	A	100	93.0				-7.0	20
Aroclor-1268 [2C]	A	100	105				5.0	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Quantitation Report (QT Reviewed)

3553

Data Path : C:\msdchem\1\data\051424\
Data File : I24E135049.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 11:06 pm
Operator : PJG
Sample : 1232/1268 100 Inst : ECD 9
Misc : mix[l3,l9]
ALS Vial : 49 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 15 07:21:34 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
2) S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
3) L1	1016{1}	0.000	0.000	0	0	N.D. d	N.D. d
4) L1	1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1	1016{3}	0.000	0.000	0	0	N.D. d	N.D. d
6) L1	1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1	1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9) L7	1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7	1260{3}	0.000	0.000	0	0	N.D. d	N.D. d
11) L7	1260{4}	0.000	0.000	0	0	N.D. d	N.D. d
12) L7	1260{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	3.829	3.891	62025817	49552079	93.900	105.282
29) L3	1232{2}	4.148	4.246	135.5E6	60359929	95.603	110.087
30) L3	1232{3}	4.478	4.535	96061199	77103116	95.484	108.658
31) L3	1232{4}	4.548	4.838	65237438	78711753	96.477	107.447

Data Path : C:\msdchem\1\data\051424\
Data File : I24E135049.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 11:06 pm
Operator : PJG
Sample : 1232/1268 100 Inst : ECD 9
Misc : mix[l3,l9]
ALS Vial : 49 Sample Multiplier: 1

3554

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 15 07:21:34 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	4.822	4.876	98745343	93696856	100.343	106.739
Sum	1232			457.6E6	359.4E6	481.806	538.214
Average	1232					96.361	107.643
33)	L9 1268{1}	6.608	6.669	1019.9E6	873.0E6	96.993	106.201
34)	L9 1268{2}	6.633	6.697	1043.8E6	856.1E6	97.486	106.601
35)	L9 1268{3}	6.750	6.843	854.2E6	777.8E6	88.852	104.435
36)	L9 1268{4}	6.949	6.997	261.2E6	219.3E6	89.281	102.856
37)	L9 1268{5}	7.105	7.170	2279.3E6	2126.7E6	92.221	104.854
Sum	1268			5458.5E6	4852.9E6	464.833	524.947
Average	1268					92.967	104.989
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40)	L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D. d	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

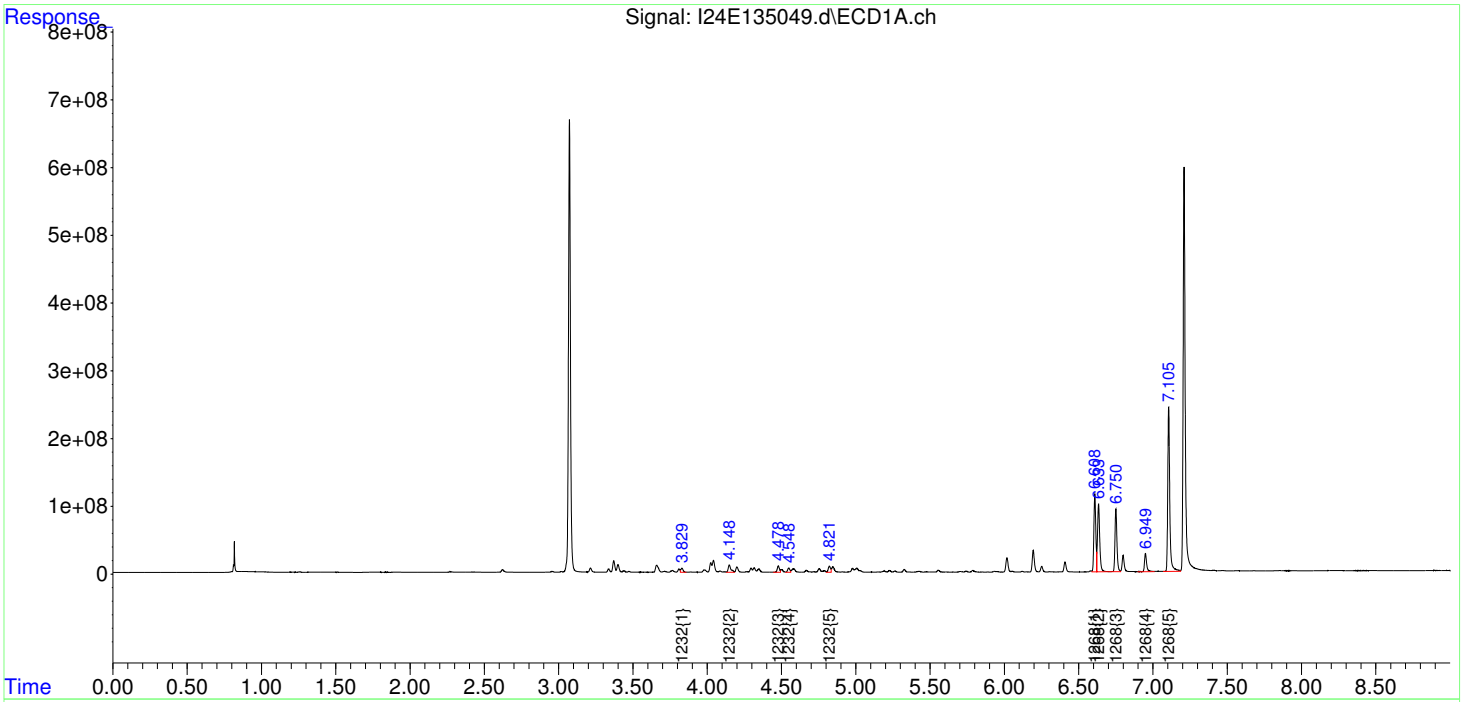
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

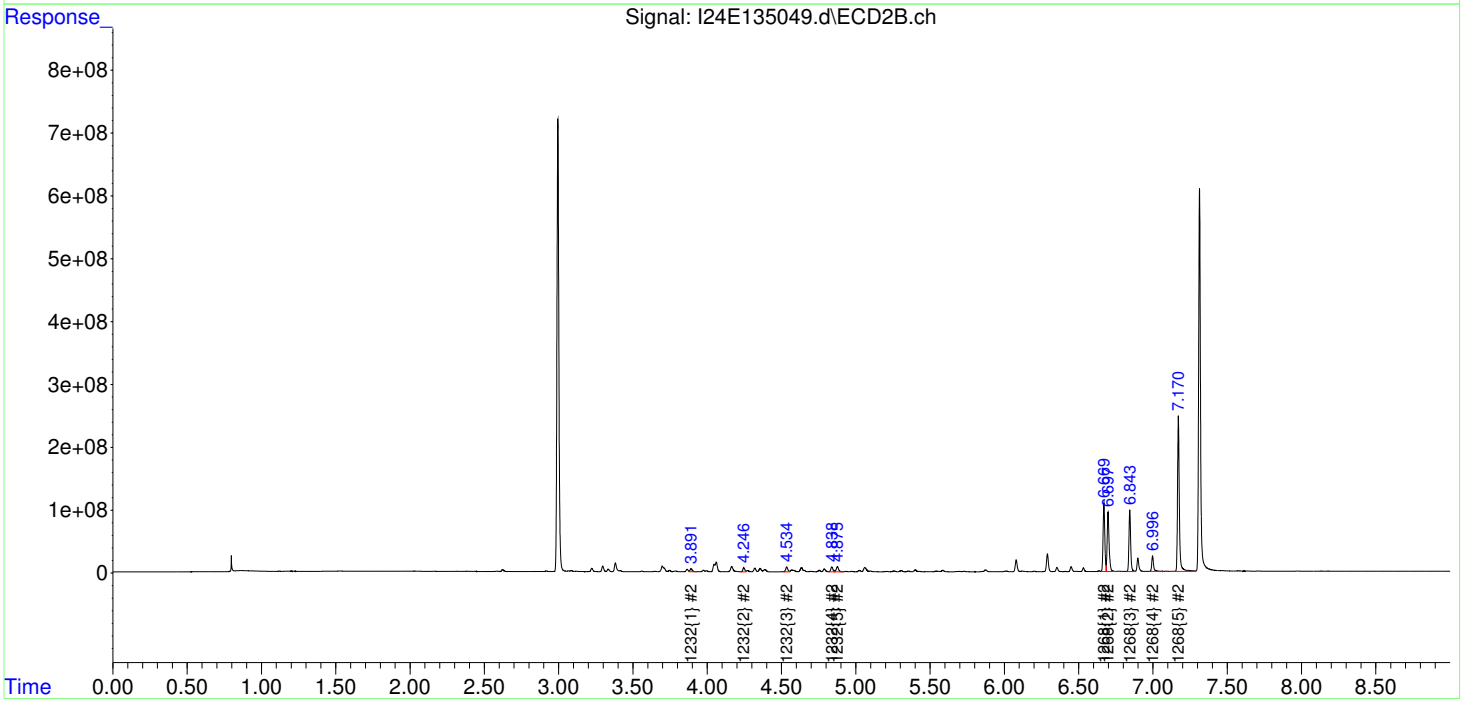
Data Path : C:\msdchem\1\data\051424\
Data File : I24E135049.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 11:06 pm
Operator : PJG
Sample : 1232/1268 100 Inst : ECD 9
Misc : mix[l3,l9]
ALS Vial : 49 Sample Multiplier: 1

3555

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 15 07:21:34 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ECD 9	Calibration:	2400478
Lab File ID:	I24E135050.d	Calibration Date:	04/28/24 08:52
Sequence:	S104539	Injection Date:	05/14/24
Lab Sample ID:	S104539-CCVD	Injection Time:	23:18

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1221	A	100	101				0.7	20
Aroclor-1221 [2C]	A	100	109				8.9	20
Aroclor-1262	A	100	93.4				-6.6	20
Aroclor-1262 [2C]	A	100	103				2.7	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Data Path : C:\msdchem\1\data\051424\
Data File : I24E135050.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 11:18 pm
Operator : PJG
Sample : 1221/1262 100 Inst : ECD 9
Misc : mix[l2,l8]
ALS Vial : 50 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 15 07:21:36 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	0.000	0.000	0	0	N.D. d	N.D. d
2) S	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Target Compounds						
3) L1	1016{1}	0.000	0.000	0	0	N.D. d	N.D. d
4) L1	1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1	1016{3}	0.000	0.000	0	0	N.D. d	N.D. d
6) L1	1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1	1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9) L7	1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7	1260{3}	0.000	0.000	0	0	N.D. d	N.D. d
11) L7	1260{4}	0.000	0.000	0	0	N.D. d	N.D. d
12) L7	1260{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\051424\
Data File : I24E135050.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 11:18 pm
Operator : PJG
Sample : 1221/1262 100 Inst : ECD 9
Misc : mix[l2,l8]
ALS Vial : 50 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 15 07:21:36 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	3.214	3.223	95938453	70721010	100.533	108.955
39)	L2 1221{2}	3.370	3.334	199.2E6	47144300	96.403	107.174
40)	L2 1221{3}	3.767	3.382	30629226	165.8E6	105.275	110.435
Sum	1221			325.8E6	283.7E6	302.212	326.564
Average	1221					100.737	108.855
41)	L8 1262{1}	5.360	5.429	187.2E6	146.4E6	92.152	103.283
42)	L8 1262{2}	5.702	5.729	439.2E6	300.1E6	93.967	103.402
43)	L8 1262{3}	6.017	6.079	469.6E6	366.0E6	94.854	103.517
44)	L8 1262{4}	6.199	6.287	421.8E6	344.5E6	93.243	101.474
45)	L8 1262{5}	6.407	6.449	932.5E6	732.9E6	92.536	101.860
Sum	1262			2450.3E6	1889.8E6	466.752	513.536
Average	1262					93.350	102.707

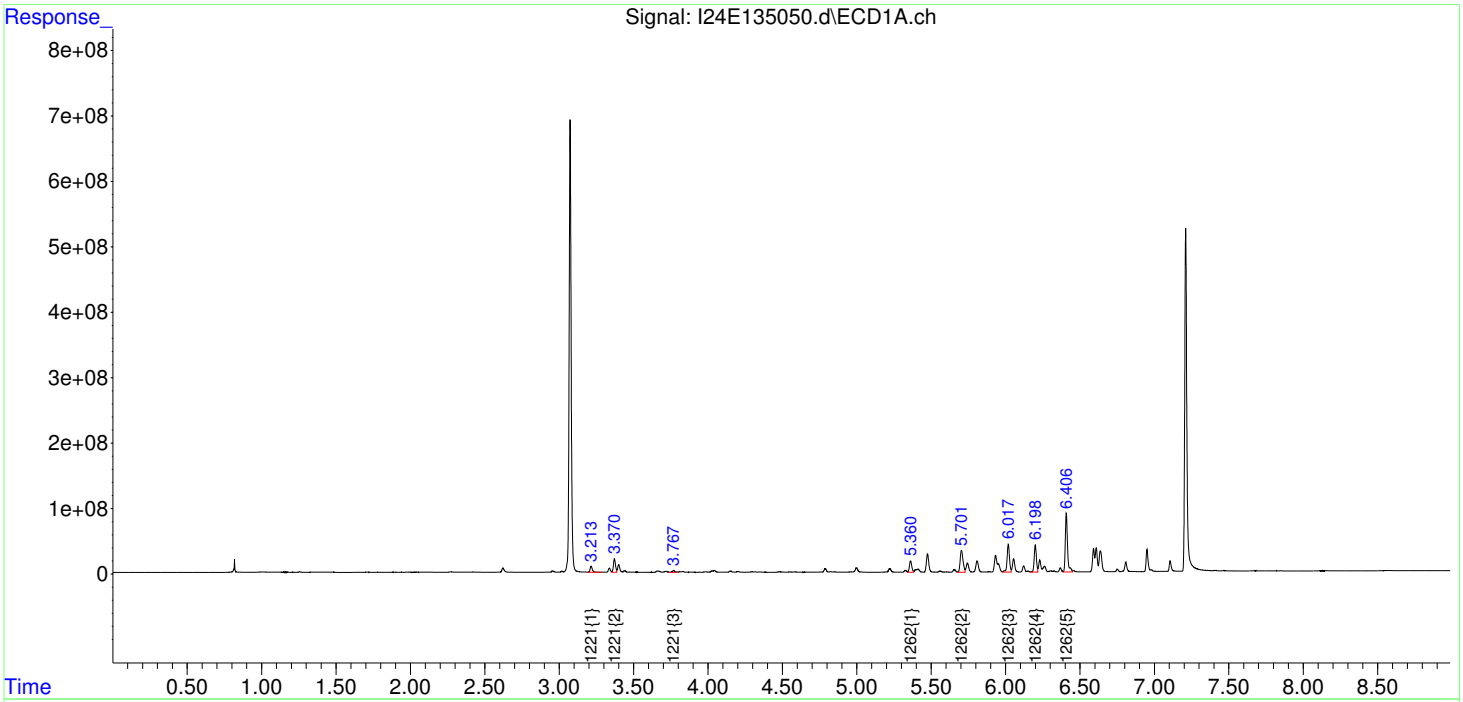
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

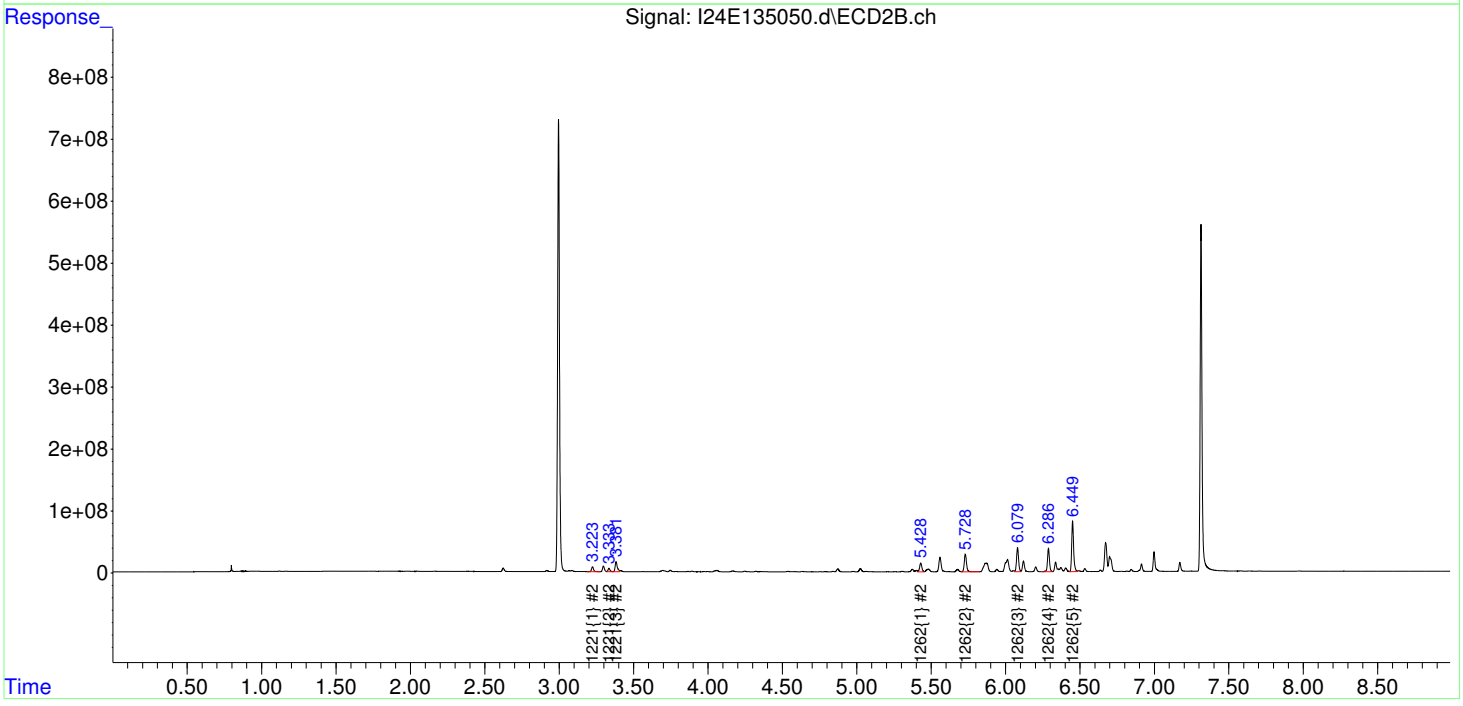
Data Path : C:\msdchem\1\data\051424\
Data File : I24E135050.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 11:18 pm
Operator : PJG
Sample : 1221/1262 100 Inst : ECD 9
Misc : mix[l2,l8]
ALS Vial : 50 Sample Multiplier: 1

3559

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 15 07:21:36 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ECD 9	Calibration:	2400478
Lab File ID:	I24E135060.d	Calibration Date:	04/28/24 08:52
Sequence:	S104539	Injection Date:	05/15/24
Lab Sample ID:	S104539-CCVE	Injection Time:	02:02

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	100	104				3.8	20
Aroclor-1016 [2C]	A	100	109				9.0	20
Aroclor-1260	A	100	101				1.3	20
Aroclor-1260 [2C]	A	100	100				0.4	20
Decachlorobiphenyl	A	100	94.4	5.550539E+07	5.2407E+07		-5.6	
Decachlorobiphenyl [2C]	A	100	99.0	4.98069E+07	4.9319E+07		-1.0	
Tetrachloro-m-xylene	A	100	99.9	6.567614E+07	6.5581E+07		-0.1	
Tetrachloro-m-xylene [2C]	A	100	110	5.785597E+07	6.3701E+07		10.1	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Quantitation Report (QT Reviewed)

3561

Data Path : C:\msdchem\1\data\051424\
Data File : I24E135060.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2024 2:02 am
Operator : PJG
Sample : 1260/1016 100 Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 60 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 15 07:21:57 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	3.071	2.995	6558.1E6	6370.1E6	99.854	110.103
2) S	Decachlor...	7.208	7.313	5240.7E6	4931.9E6	94.416	99.022
	Target Compounds						
3) L1	1016{1}	3.808	3.865	97847859	80503586	103.017	106.378
4) L1	1016{2}	4.040	4.061	428.5E6	369.4E6	105.038	114.133
5) L1	1016{3}	4.146	4.247	305.5E6	142.1E6	103.487	108.934
6) L1	1016{4}	4.476	4.535	224.1E6	181.7E6	104.054	107.724
7) L1	1016{5}	4.546	4.634	149.2E6	170.9E6	103.559	107.912
Sum	1016			1205.2E6	944.6E6	519.155	545.081
Average	1016					103.831	109.016
8) L7	1260{1}	5.472	5.558	436.6E6	354.4E6	104.159	102.680
9) L7	1260{2}	5.700	5.729	665.8E6	433.4E6	107.148	107.511
10) L7	1260{3}	6.015	6.079	387.8E6	294.9E6	97.232	97.527
11) L7	1260{4}	6.197	6.287	401.6E6	322.1E6	99.656	94.356
12) L7	1260{5}	6.405	6.449	832.7E6	720.3E6	98.549	99.895
Sum	1260			2724.6E6	2125.1E6	506.745	501.969
Average	1260					101.349	100.394
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\051424\
Data File : I24E135060.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2024 2:02 am
Operator : PJG
Sample : 1260/1016 100 Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 60 Sample Multiplier: 1

3562

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 15 07:21:57 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40)	L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D. d	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

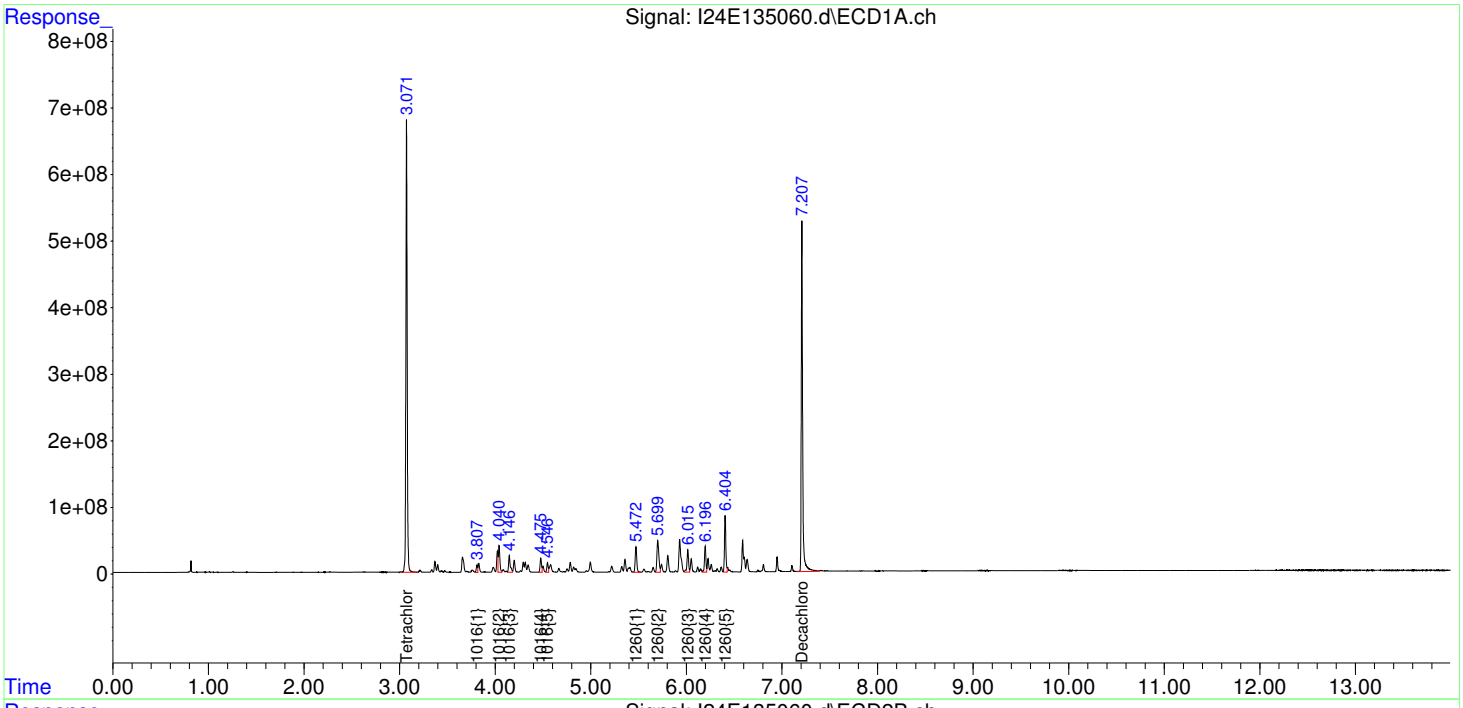
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

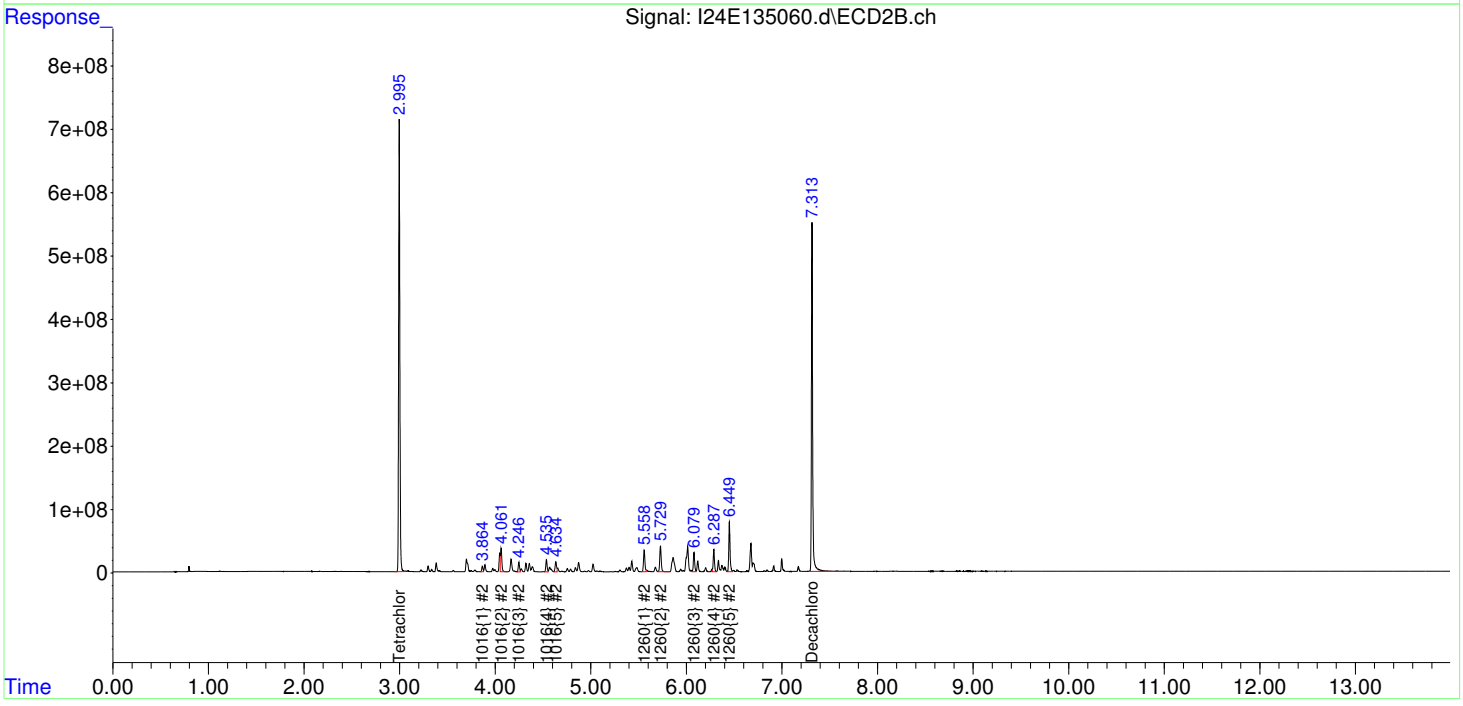
Data Path : C:\msdchem\1\data\051424\
Data File : I24E135060.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2024 2:02 am
Operator : PJG
Sample : 1260/1016 100 Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 60 Sample Multiplier: 1

3563

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 15 07:21:57 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





7 - FORM VII

CONTINUING CALIBRATION VERIFICATION

SW-846 8082A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ECD 9	Calibration:	2400478
Lab File ID:	I24E135071.d	Calibration Date:	04/28/24 08:52
Sequence:	S104539	Injection Date:	05/15/24
Lab Sample ID:	S104539-CCVF	Injection Time:	09:44

		CONC. (µg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor-1016	A	100	103				3.2	20
Aroclor-1016 [2C]	A	100	106				6.1	20
Aroclor-1260	A	100	99.3				-0.7	20
Aroclor-1260 [2C]	A	100	99.7				-0.3	20
Decachlorobiphenyl	A	100	90.4	5.550539E+07	5.0171E+07		-9.6	
Decachlorobiphenyl [2C]	A	100	92.9	4.98069E+07	4.6279E+07		-7.1	
Tetrachloro-m-xylene	A	100	98.4	6.567614E+07	6.4646E+07		-1.6	
Tetrachloro-m-xylene [2C]	A	100	108	5.785597E+07	6.2701E+07		8.4	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Quantitation Report (QT Reviewed)

3565

Data Path : C:\msdchem\1\data\051424\
Data File : I24E135071.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2024 9:44 am
Operator : PJG
Sample : 1260/1016 100 Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 71 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 15 09:53:42 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	3.072	2.995	6464.6E6	6270.1E6	98.431	108.374
2) S	Decachlor...	7.209	7.313	5017.1E6	4627.9E6	90.388	92.918
	Target Compounds						
3) L1	1016{1}	3.809	3.865	96966243	78320365	102.089	103.493
4) L1	1016{2}	4.042	4.061	427.8E6	359.4E6	104.861	111.052
5) L1	1016{3}	4.148	4.246	304.0E6	138.6E6	102.973	106.229
6) L1	1016{4}	4.477	4.535	221.6E6	177.3E6	102.899	105.094
7) L1	1016{5}	4.548	4.633	148.5E6	165.9E6	103.106	104.771
Sum	1016			1199.0E6	919.5E6	515.928	530.640
Average	1016					103.186	106.128
8) L7	1260{1}	5.474	5.558	430.6E6	367.7E6	102.723	106.546
9) L7	1260{2}	5.702	5.728	655.5E6	419.8E6	105.481	104.128
10) L7	1260{3}	6.016	6.079	379.9E6	284.2E6	95.247	93.989
11) L7	1260{4}	6.198	6.287	391.6E6	334.1E6	97.172	97.869
12) L7	1260{5}	6.407	6.449	809.3E6	692.5E6	95.777	96.047
Sum	1260			2666.8E6	2098.3E6	496.401	498.580
Average	1260					99.280	99.716
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\051424\
Data File : I24E135071.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2024 9:44 am
Operator : PJG
Sample : 1260/1016 100 Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 71 Sample Multiplier: 1

3566

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 15 09:53:42 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40)	L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D. d	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

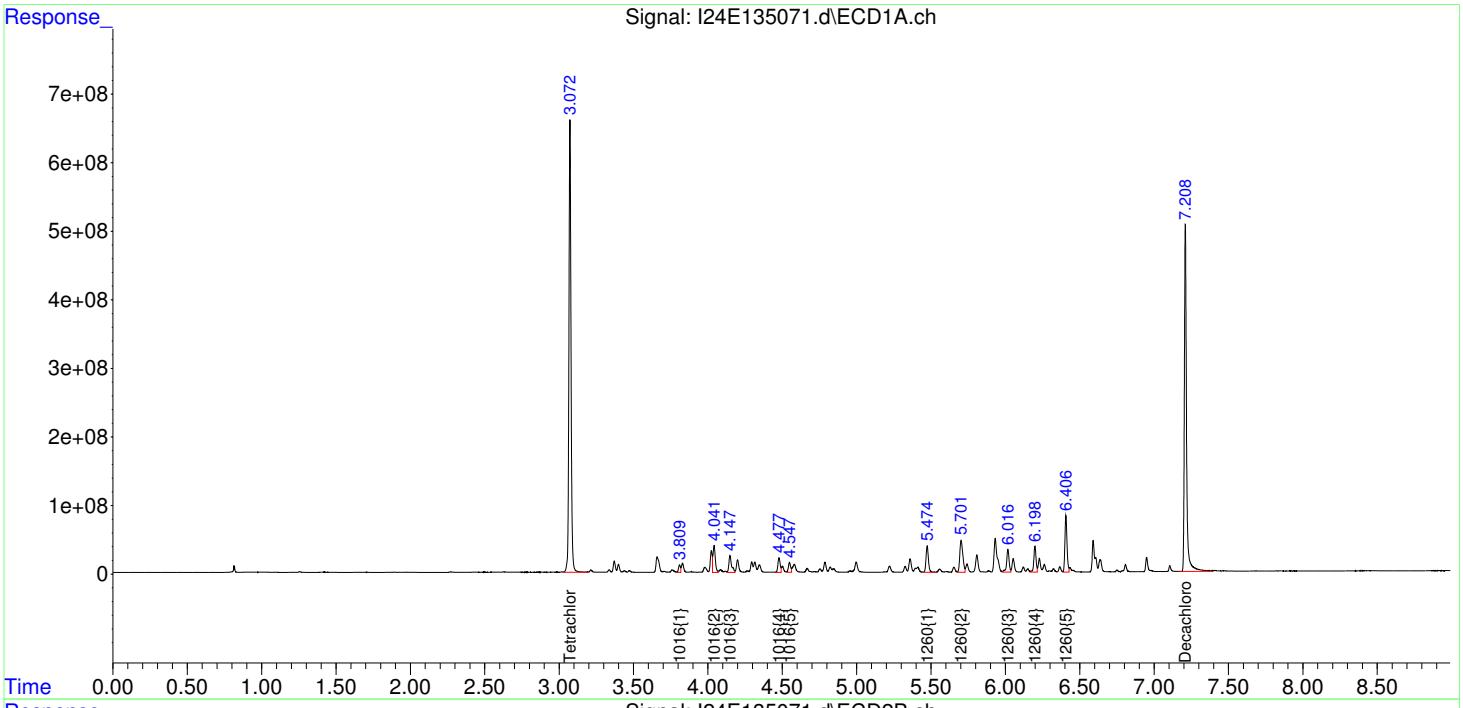
Quantitation Report (QT Reviewed)

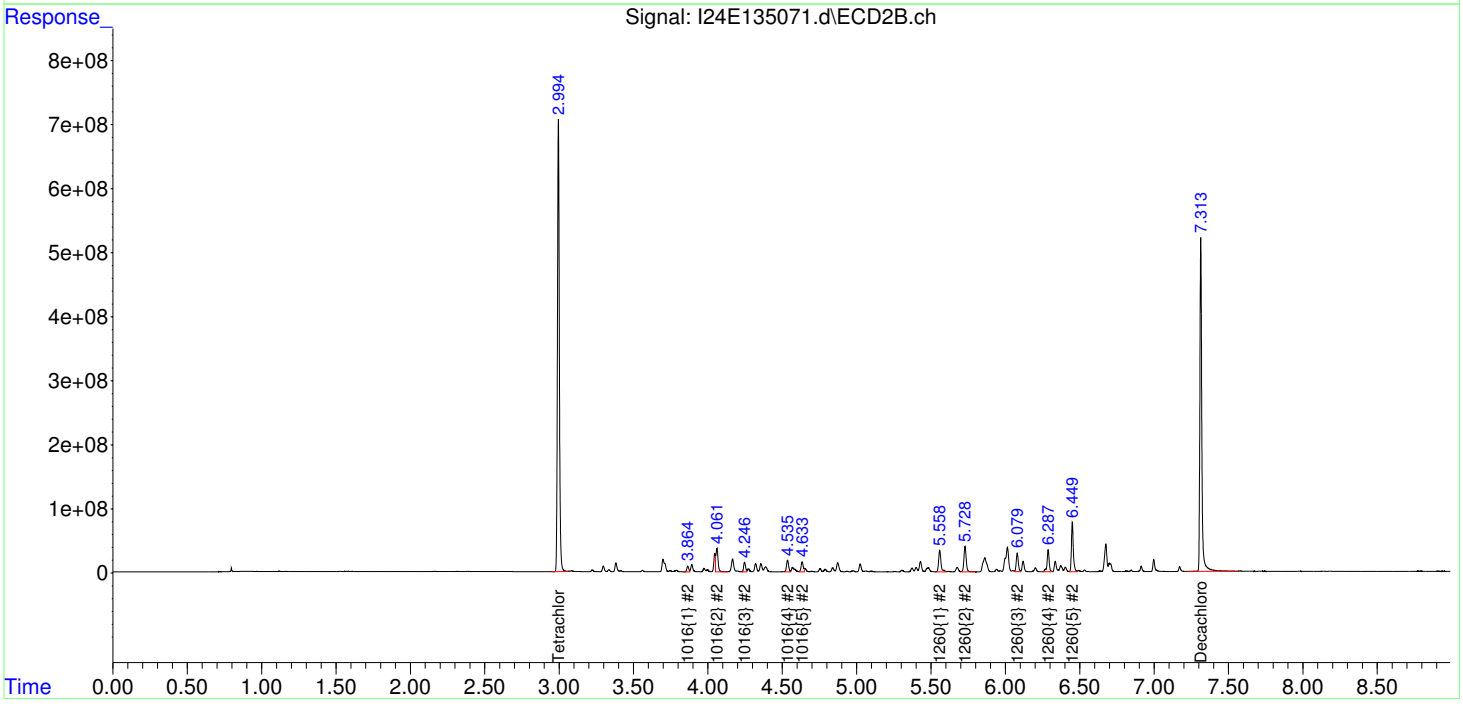
3567

Data Path : C:\msdchem\1\data\051424\
Data File : I24E135071.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 May 2024 9:44 am
Operator : PJG
Sample : 1260/1016 100 Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 71 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 15 09:53:42 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





QC DATA

IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

CG-2 3569

Lab Sample ID: 24E1437-02 Date(s) Analyzed: 05/14/2024 05/14/2024

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	0.089	
	2	0.000	0.000	0.000	0.075	17.1

IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

SB4A 3570

Lab Sample ID: 24E1437-12 Date(s) Analyzed: 05/14/2024 05/14/2024

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	1.1	
	2	0.000	0.000	0.000	1.1	0.0

IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

SB7	3571

Lab Sample ID: 24E1437-17 Date(s) Analyzed: 05/14/2024 05/14/2024

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	0.082	
	2	0.000	0.000	0.000	0.091	10.4

IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

DUP 3572

Lab Sample ID: 24E1437-19 Date(s) Analyzed: 05/14/2024 05/14/2024

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	0.000	0.000	0.11	
	2	0.000	0.000	0.000	0.092	17.8

IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS 3573

Lab Sample ID: B374045-BS1 Date(s) Analyzed: 05/11/2024 05/11/2024

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.14	
	2	0.000	0.000	0.000	0.14	0.0
Aroclor-1260	1	0.000	0.000	0.000	0.14	
	2	0.000	0.000	0.000	0.14	0.0

IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup 3574

Lab Sample ID: B374045-BSD1 Date(s) Analyzed: 05/11/2024 05/11/2024

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.13	
	2	0.000	0.000	0.000	0.13	0.0
Aroclor-1260	1	0.000	0.000	0.000	0.13	
	2	0.000	0.000	0.000	0.13	0.0

IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike 3575

Lab Sample ID: B374045-MS1 Date(s) Analyzed: 05/14/2024 05/14/2024

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.19	
	2	0.000	0.000	0.000	0.19	0.0
Aroclor-1260	1	0.000	0.000	0.000	0.19	
	2	0.000	0.000	0.000	0.19	0.0

IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup 3576

Lab Sample ID: B374045-MSD1 Date(s) Analyzed: 05/14/2024 05/14/2024

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.21	
	2	0.000	0.000	0.000	0.21	0.0
Aroclor-1260	1	0.000	0.000	0.000	0.21	
	2	0.000	0.000	0.000	0.20	4.9

1 - FORM I
ANALYSIS DATA SHEET

Blank

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374045-BLK1	File ID:	I24E132011.d
Sampled:		Prepared:	05/10/24 15:04	Analyzed:	05/11/24 10:08
Solids:		Preparation:	SW-846 3546	Dilution:	
Initial/Final:	10.04 g / 10 mL				
Batch:	B374045	Sequence:	S104387	Calibration:	2400478
Instrument:	ECD 9				
Column:	1				

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016		0.0049	0.020	
11104-28-2	Aroclor-1221		0.0092	0.020	
11141-16-5	Aroclor-1232		0.0049	0.020	
53469-21-9	Aroclor-1242		0.0055	0.020	
12672-29-6	Aroclor-1248		0.0048	0.020	
11097-69-1	Aroclor-1254		0.0059	0.020	
11096-82-5	Aroclor-1260		0.0041	0.020	
37324-23-5	Aroclor-1262		0.0052	0.020	
11100-14-4	Aroclor-1268		0.0052	0.020	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051124\
Data File : I24E132011.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 May 2024 10:08 am
Operator : PJG
Sample : B374045-BLK1@ TBA Inst : ECD 9
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 11 14:54:04 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	3.074	2.995	8716.6E6	8473.1E6	132.719	146.451
2) S	Decachlor...	7.212	7.315	7577.5E6	7165.4E6	136.516	143.867
	Target Compounds						
3) L1	1016{1}	0.000	0.000	0	0	N.D. d	N.D. d
4) L1	1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1	1016{3}	0.000	0.000	0	0	N.D. d	N.D. d
6) L1	1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1	1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9) L7	1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7	1260{3}	0.000	0.000	0	0	N.D. d	N.D. d
11) L7	1260{4}	0.000	0.000	0	0	N.D. d	N.D. d
12) L7	1260{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\051124\
Data File : I24E132011.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 May 2024 10:08 am
Operator : PJG
Sample : B374045-BLK1@ TBA Inst : ECD 9
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 11 14:54:04 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40)	L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D. d	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

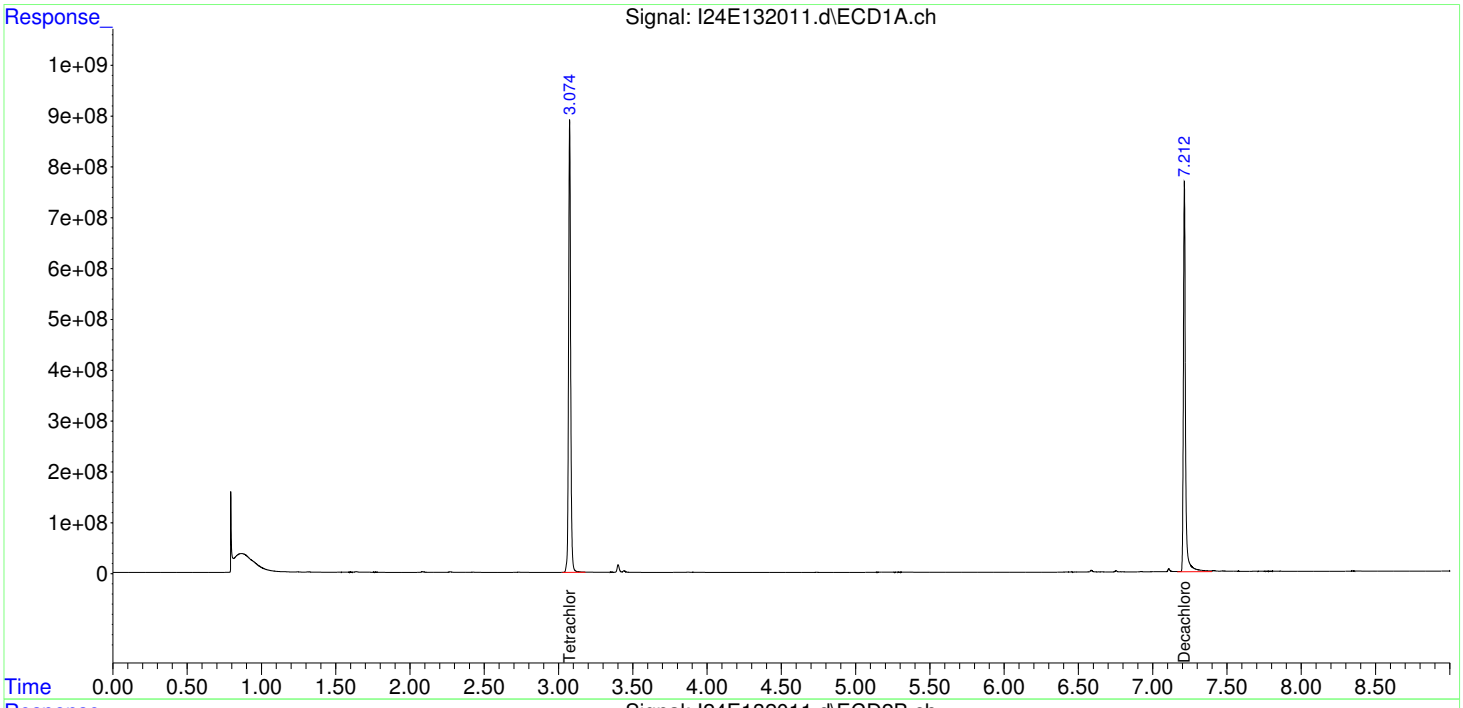
Quantitation Report (QT Reviewed)

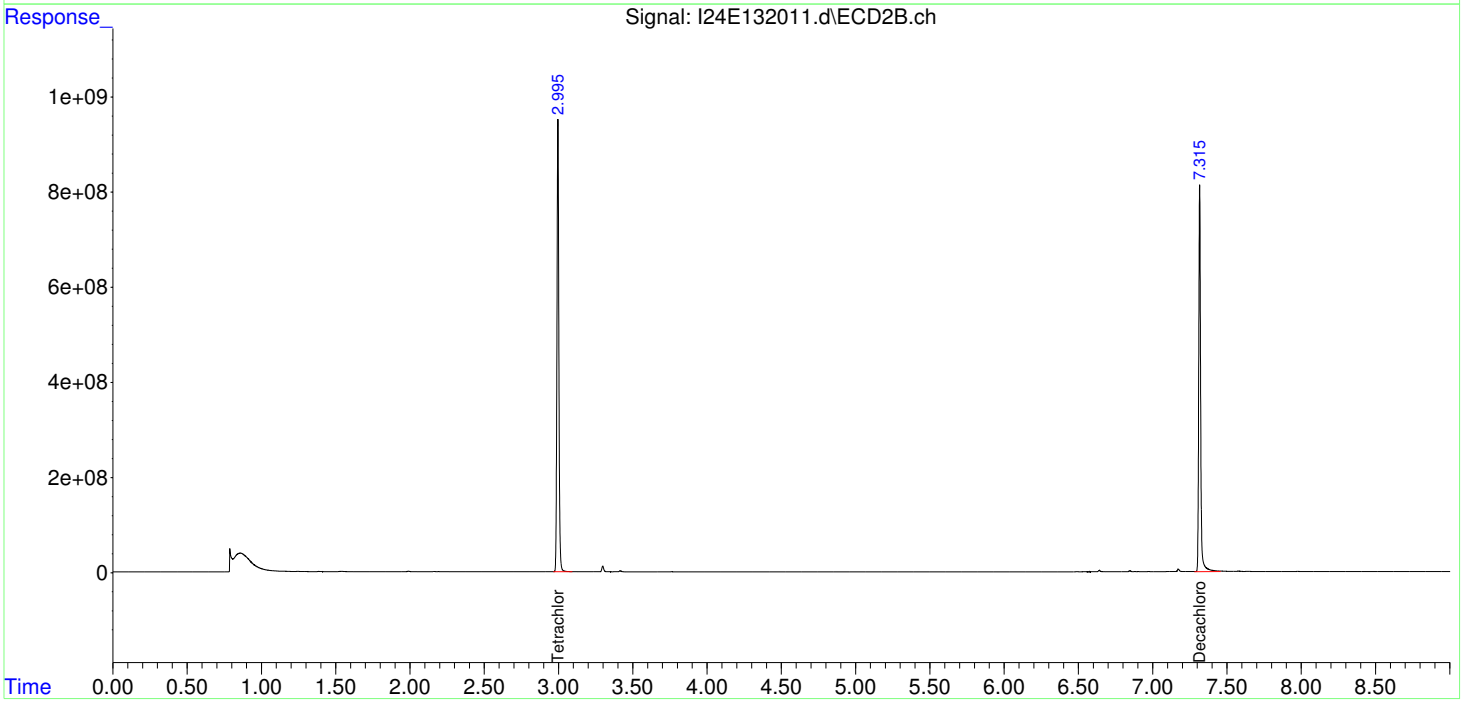
3580

Data Path : C:\msdchem\1\data\051124\
Data File : I24E132011.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 May 2024 10:08 am
Operator : PJG
Sample : B374045-BLK1@ TBA Inst : ECD 9
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 11 14:54:04 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

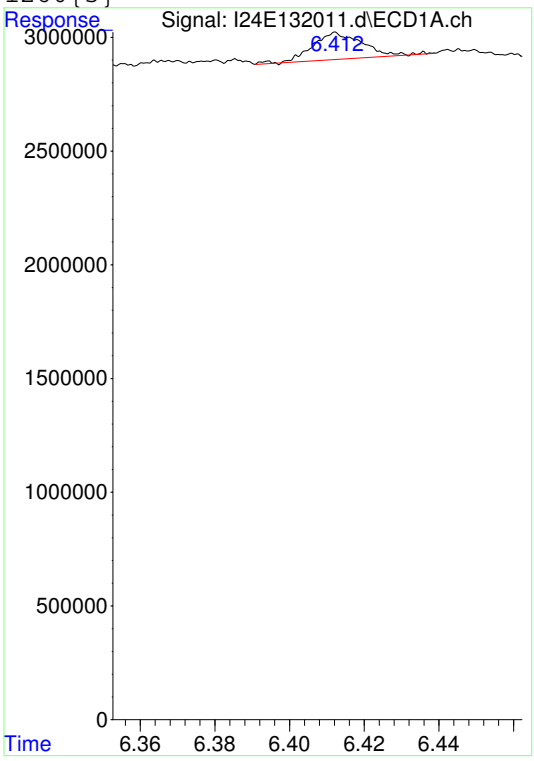




Data Path : C:\msdchem\1\data\051124\
Data File : I24E132011.d
Acq On : 11 May 2024 10:08 am
Operator : PJG
Sample : B374045-BLK1@ TBA
Misc :

Quant Time : Sat May 11 14:54:04 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1260{5}



Original Int. Results

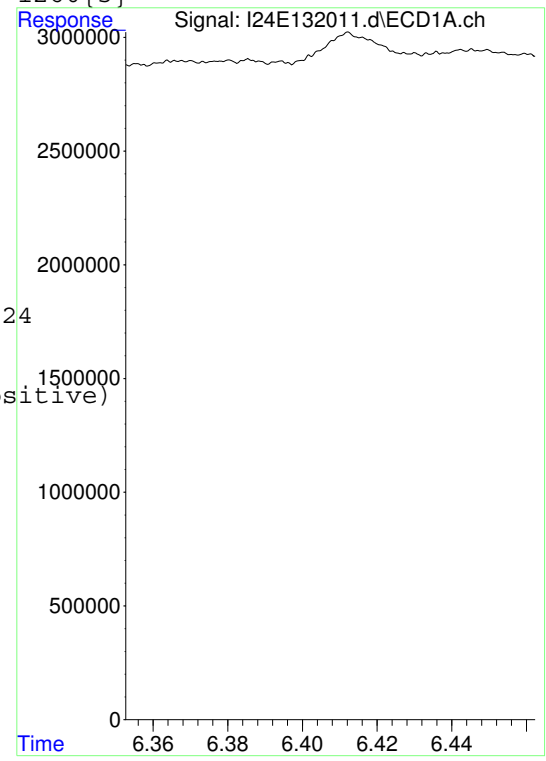
RT : 6.41
Area : 1.06858e+006
Amount: 0.126468

Manual Int. Results

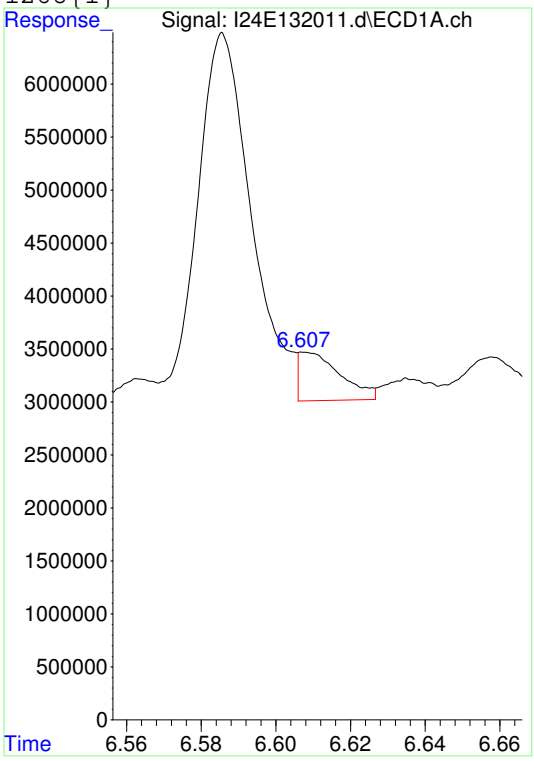
Sat May 11 14:54:02 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1260{5}



Original Integration
1268{1}



Original Int. Results

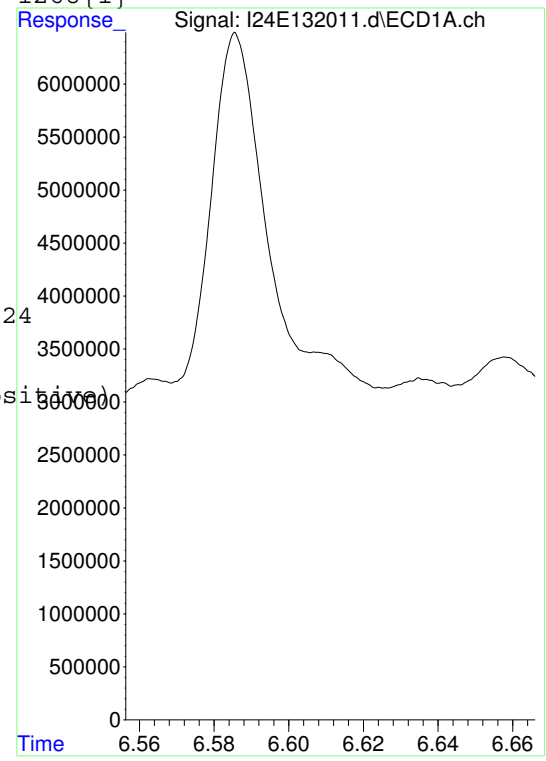
RT : 6.61
Area : 3.54802e+006
Amount: 0.337405

Manual Int. Results

Sat May 11 14:53:58 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

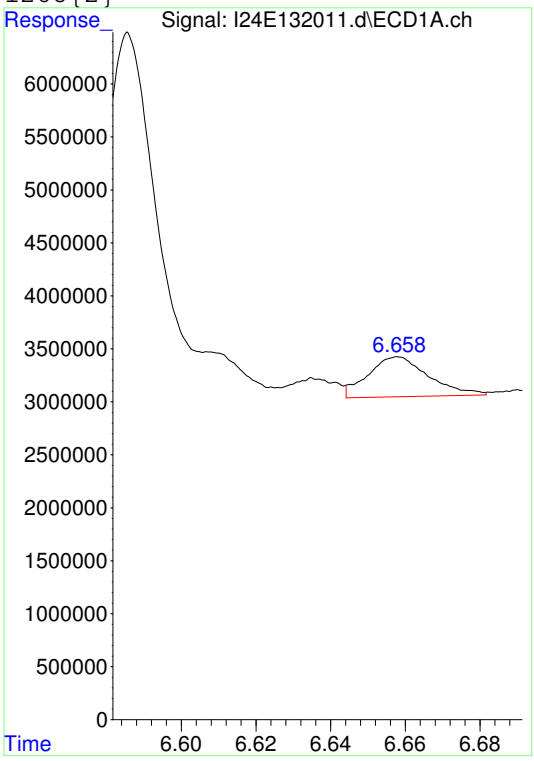
Manual Integration
1268{1}



Data Path : C:\msdchem\1\data\051124\
Data File : I24E132011.d
Acq On : 11 May 2024 10:08 am
Operator : PJG
Sample : B374045-BLK1@ TBA
Misc :

Quant Time : Sat May 11 14:54:04 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1268{2}



Original Int. Results

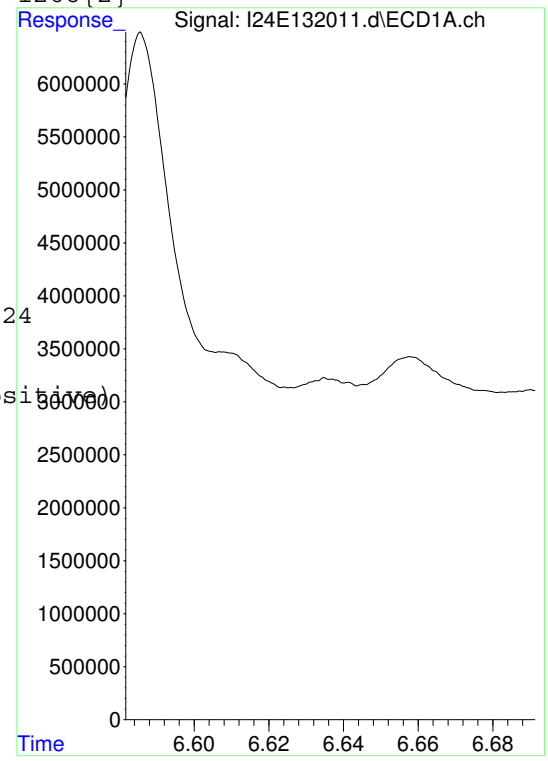
RT : 6.66
Area : 4.23185e+006
Amount: 0.39522

Manual Int. Results

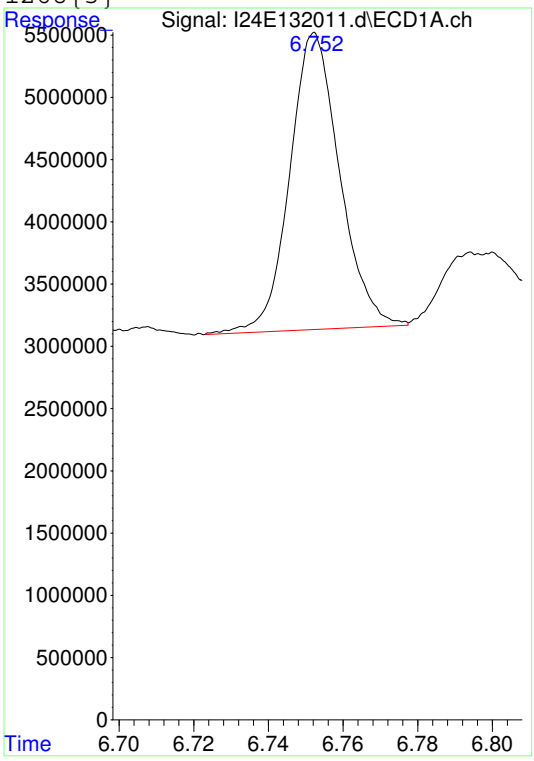
Sat May 11 14:53:58 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1268{2}



Original Integration
1268{3}



Original Int. Results

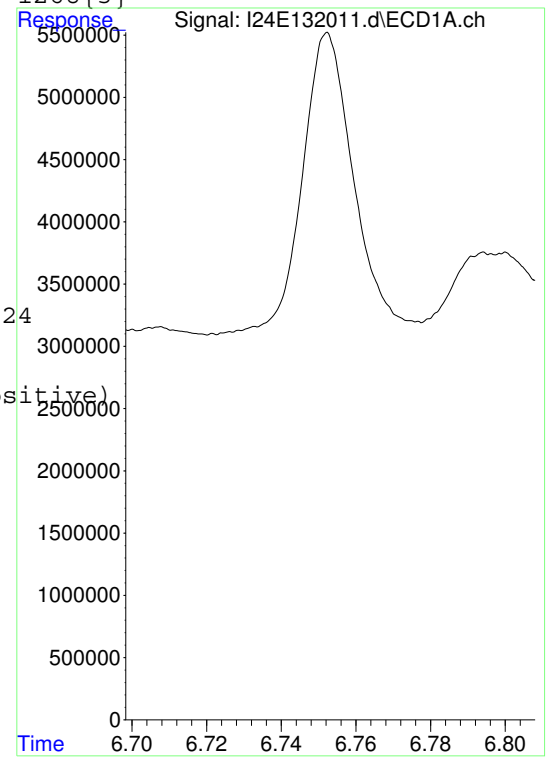
RT : 6.75
Area : 2.21517e+007
Amount: 2.30413

Manual Int. Results

Sat May 11 14:53:58 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

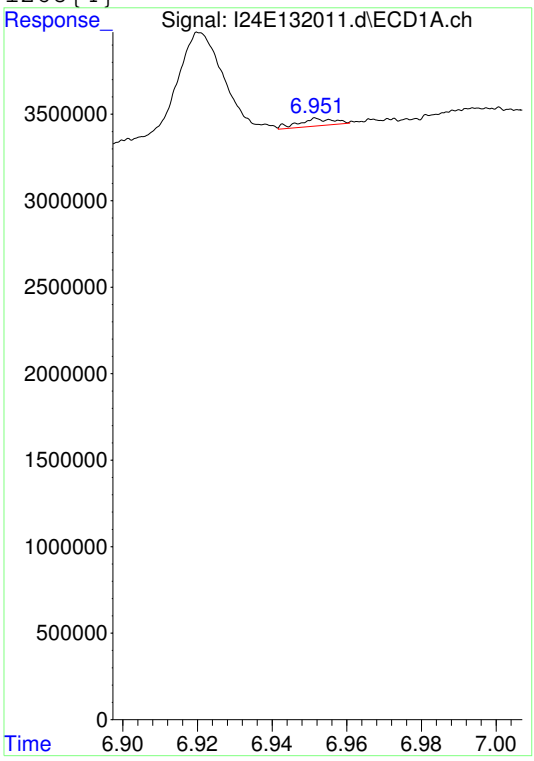
Manual Integration
1268{3}



Data Path : C:\msdchem\1\data\051124\
Data File : I24E132011.d
Acq On : 11 May 2024 10:08 am
Operator : PJG
Sample : B374045-BLK1@ TBA
Misc :

Quant Time : Sat May 11 14:54:04 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1268{4}



Original Int. Results

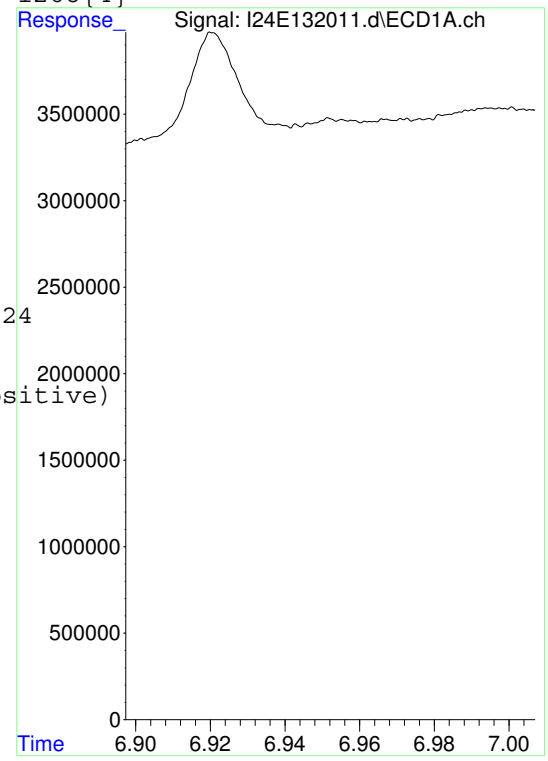
RT : 6.95
Area : 266630
Amount: 0.0911543

Manual Int. Results

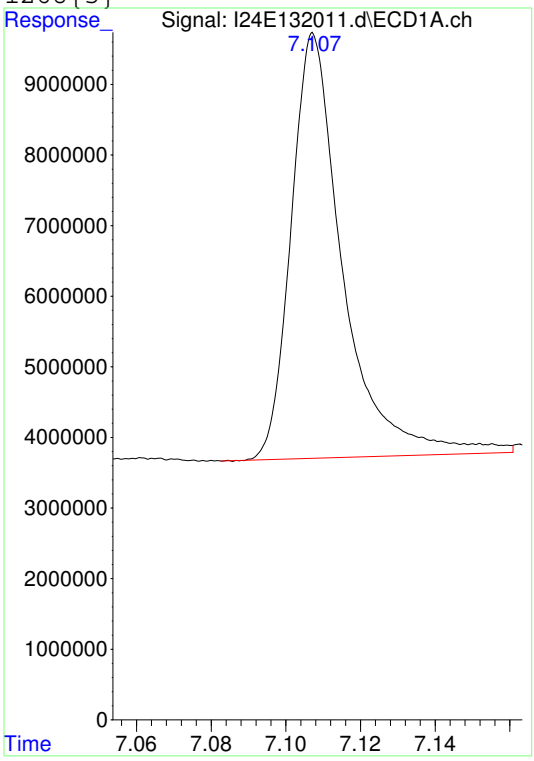
Sat May 11 14:53:58 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1268{4}



Original Integration
1268{5}



Original Int. Results

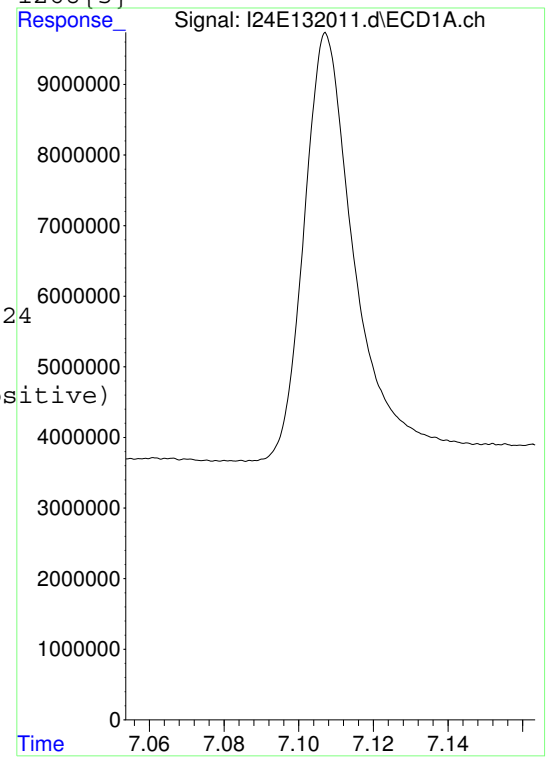
RT : 7.11
Area : 5.81367e+007
Amount: 2.35217

Manual Int. Results

Sat May 11 14:53:57 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

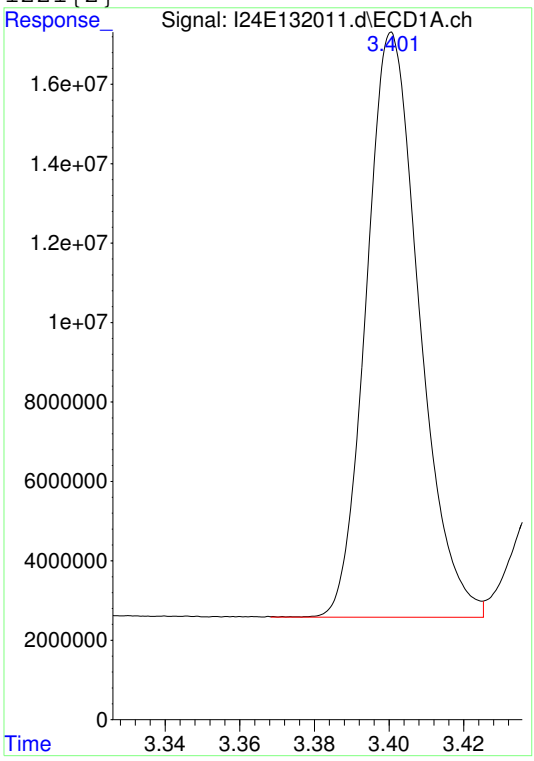
Manual Integration
1268{5}



Data Path : C:\msdchem\1\data\051124\
Data File : I24E132011.d
Acq On : 11 May 2024 10:08 am
Operator : PJG
Sample : B374045-BLK1@ TBA
Misc :

Quant Time : Sat May 11 14:54:04 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1221{2}



Original Int. Results

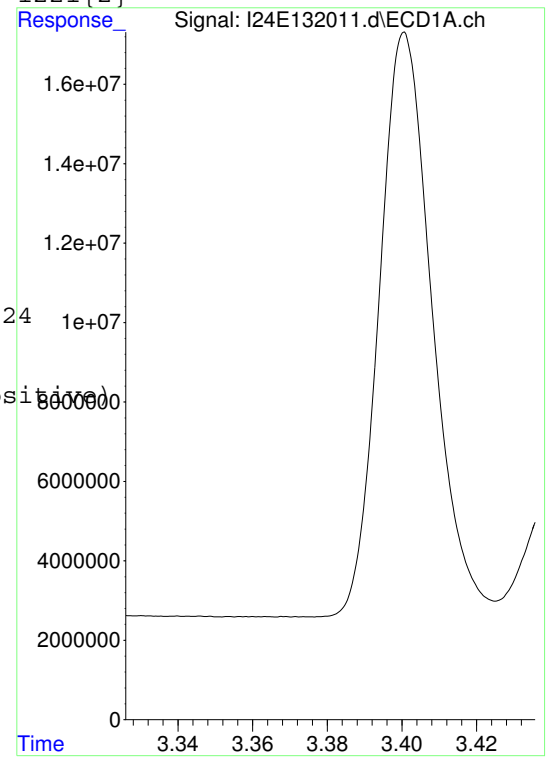
RT : 3.40
Area : 1.45001e+008
Amount: 70.1628

Manual Int. Results

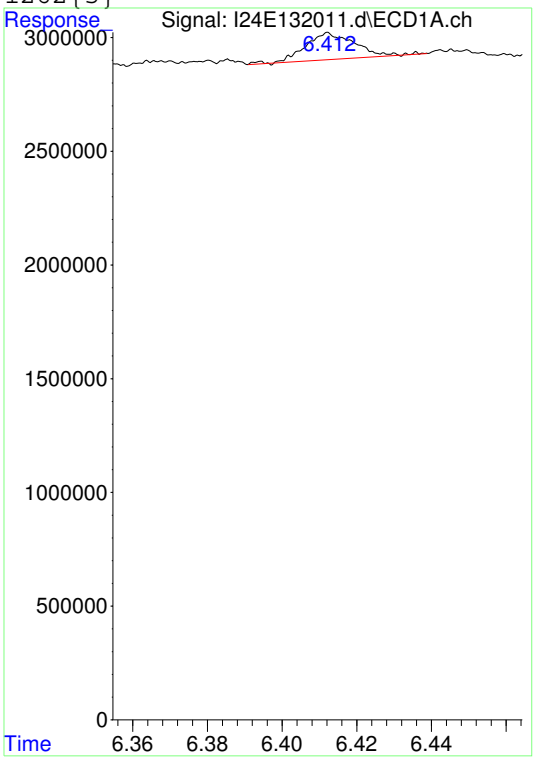
Sat May 11 14:53:57 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1221{2}



Original Integration
1262{5}



Original Int. Results

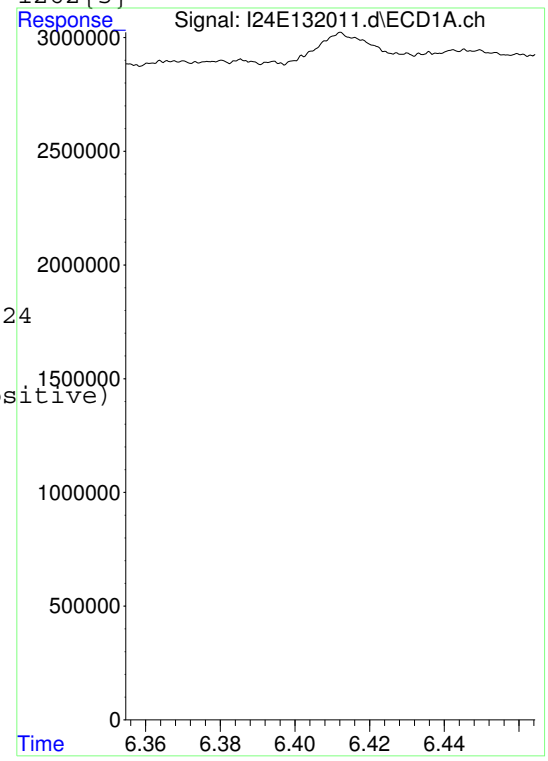
RT : 6.41
Area : 1.06858e+006
Amount: 0.106046

Manual Int. Results

Sat May 11 14:53:55 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

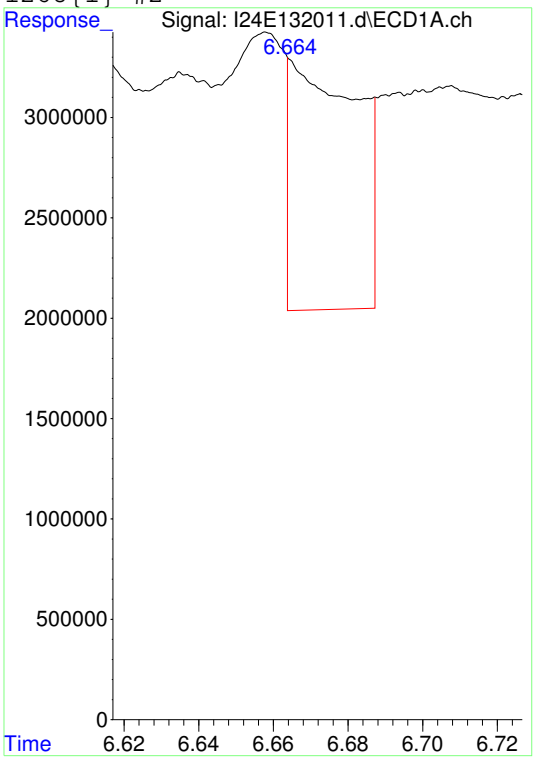
Manual Integration
1262{5}



Data Path : C:\msdchem\1\data\051124\
Data File : I24E132011.d
Acq On : 11 May 2024 10:08 am
Operator : PJG
Sample : B374045-BLK1@ TBA
Misc :

Quant Time : Sat May 11 14:54:04 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1268{1} #2



Original Int. Results

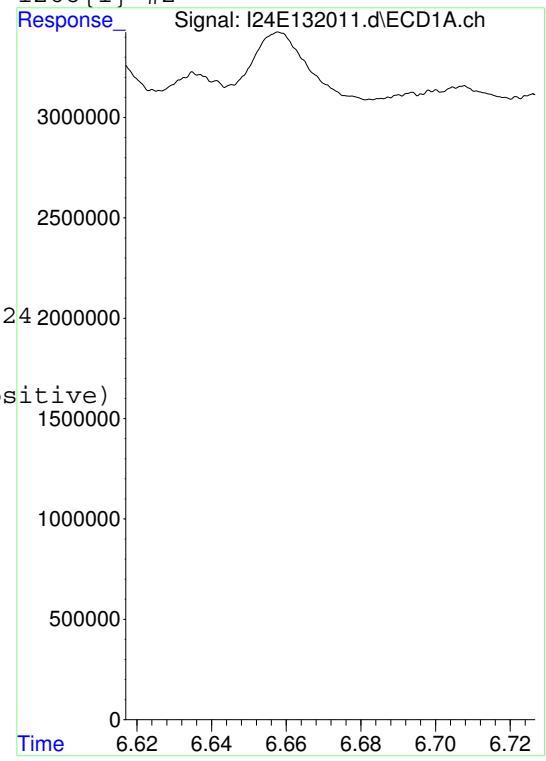
RT : 6.67
Area : 2.6709e+006
Amount: 0.32491

Manual Int. Results

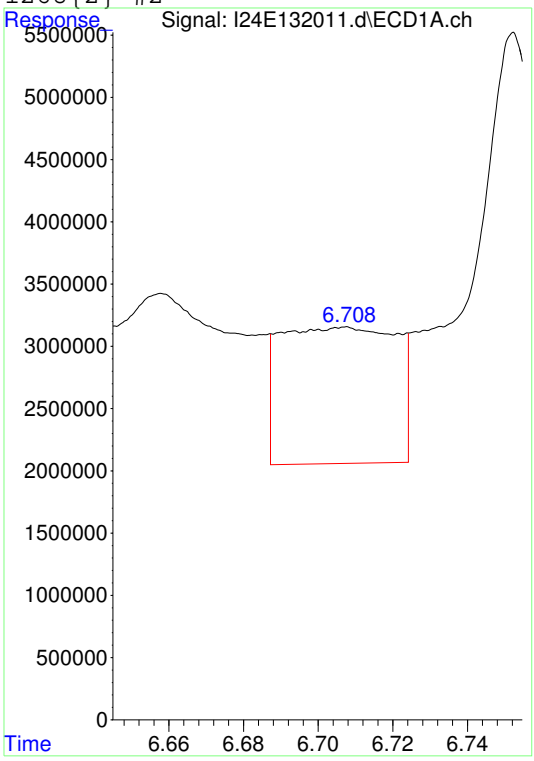
Sat May 11 14:53:58 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1268{1} #2



Original Integration
1268{2} #2



Original Int. Results

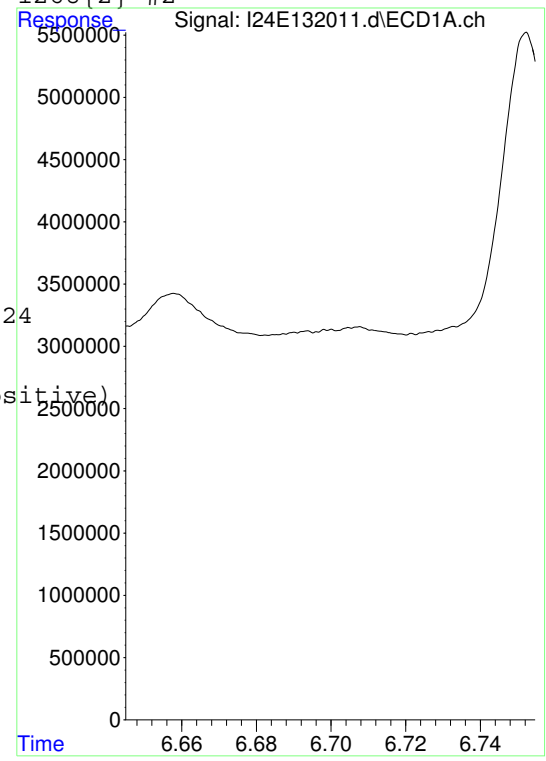
RT : 6.71
Area : 2.41855e+006
Amount: 0.301152

Manual Int. Results

Sat May 11 14:53:58 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

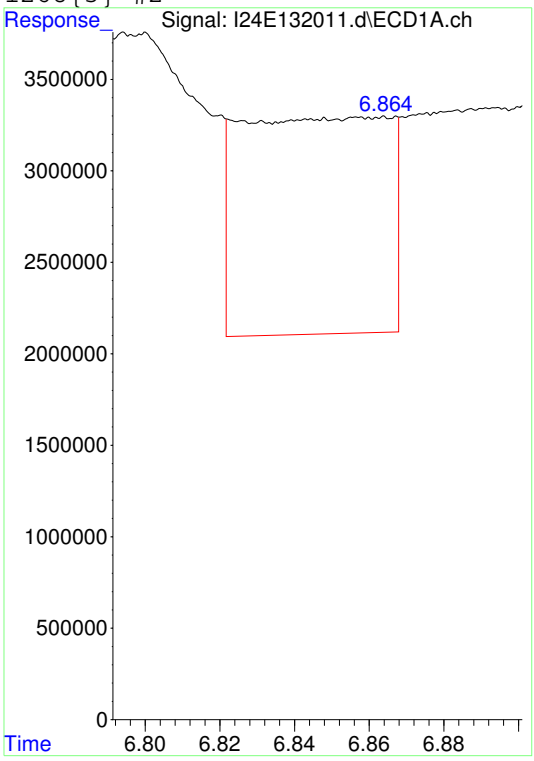
Manual Integration
1268{2} #2



Data Path : C:\msdchem\1\data\051124\
Data File : I24E132011.d
Acq On : 11 May 2024 10:08 am
Operator : PJG
Sample : B374045-BLK1@ TBA
Misc :

Quant Time : Sat May 11 14:54:04 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1268{3} #2



Original Int. Results

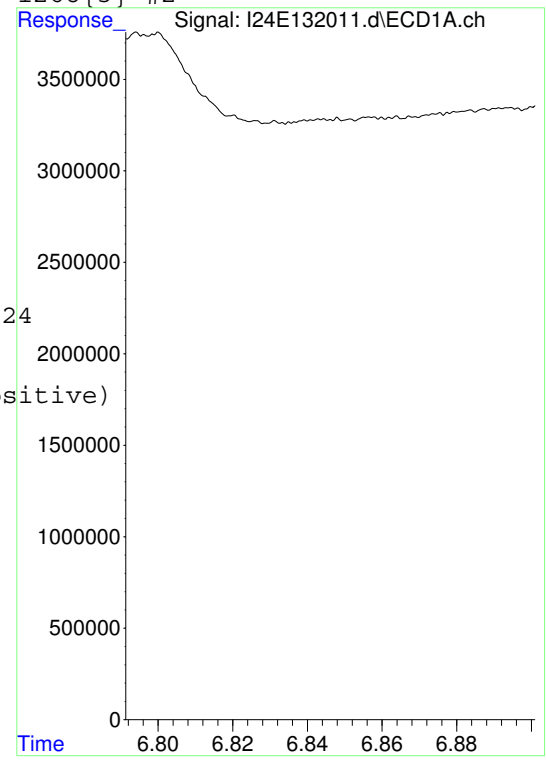
RT : 6.85
Area : 1.79544e+007
Amount: 2.41078

Manual Int. Results

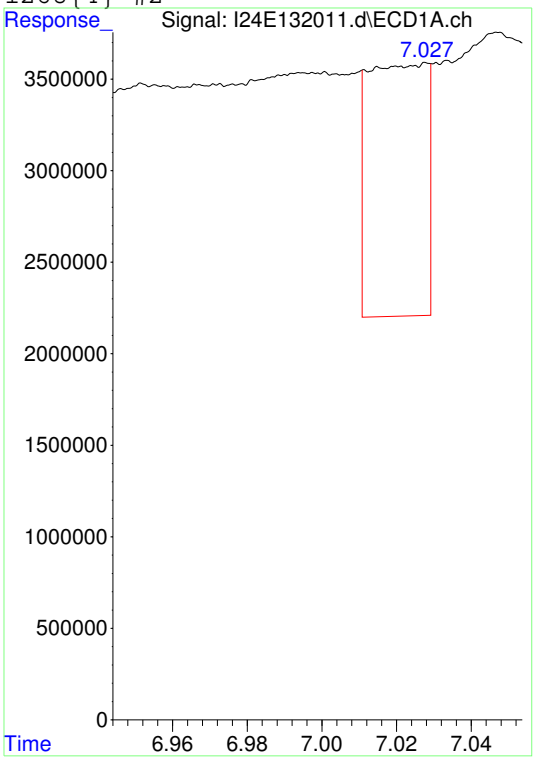
Sat May 11 14:53:58 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1268{3} #2



Original Integration
1268{4} #2



Original Int. Results

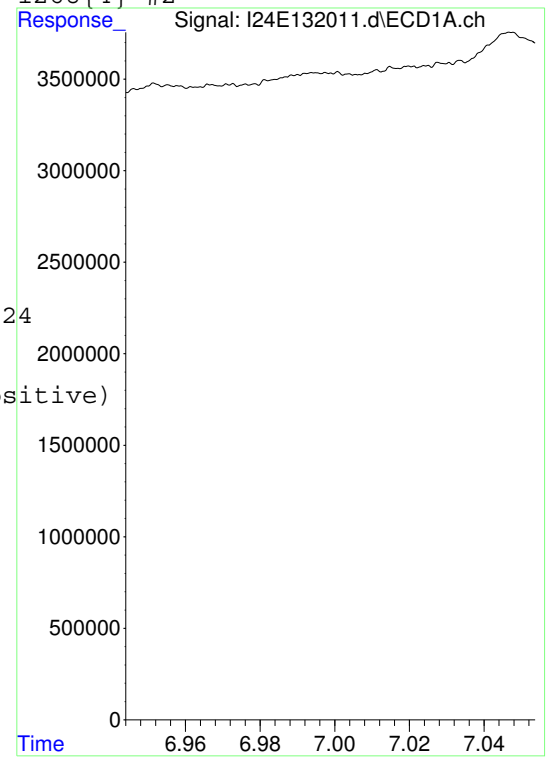
RT : 7.02
Area : 766015
Amount: 0.35924

Manual Int. Results

Sat May 11 14:53:58 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

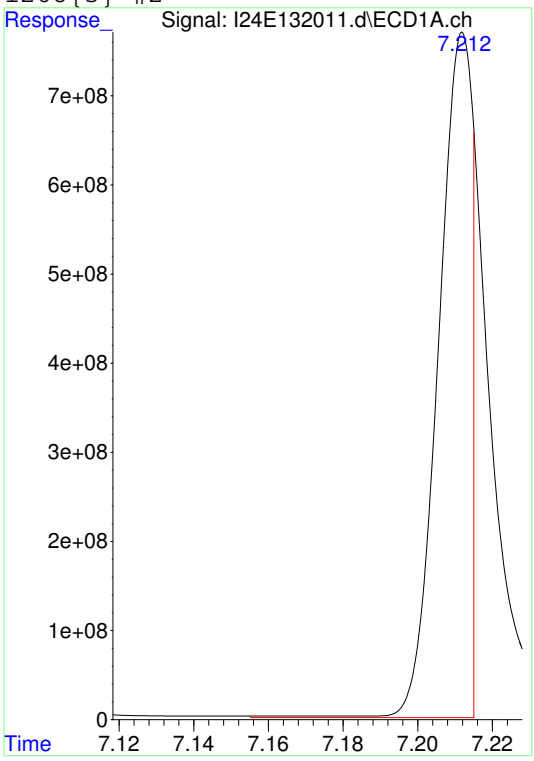
Manual Integration
1268{4} #2



Data Path : C:\msdchem\1\data\051124\
Data File : I24E132011.d
Acq On : 11 May 2024 10:08 am
Operator : PJG
Sample : B374045-BLK1@ TBA
Misc :

Quant Time : Sat May 11 14:54:04 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1268{5} #2



Original Int. Results

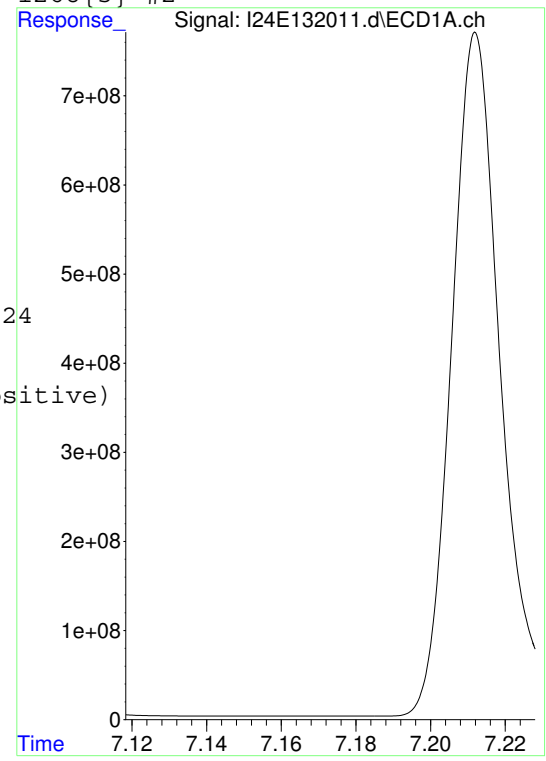
RT : 7.17
Area : 5.24182e+007
Amount: 2.58444

Manual Int. Results

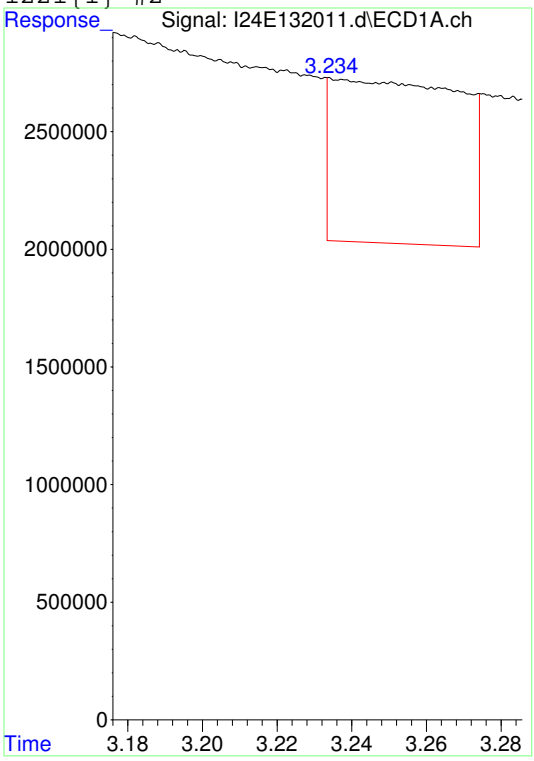
Sat May 11 14:53:57 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1268{5} #2



Original Integration
1221{1} #2



Original Int. Results

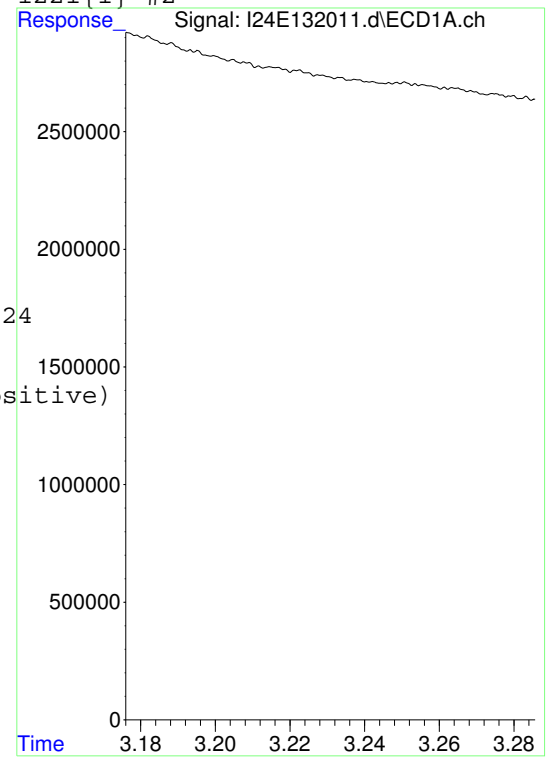
RT : 3.25
Area : 1.13413e+006
Amount: 1.74728

Manual Int. Results

Sat May 11 14:53:57 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

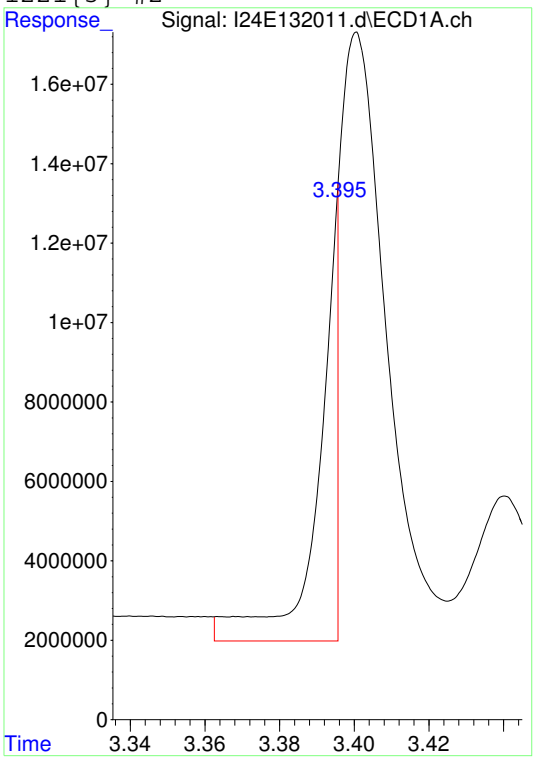
Manual Integration
1221{1} #2



Data Path : C:\msdchem\1\data\051124\
Data File : I24E132011.d
Acq On : 11 May 2024 10:08 am
Operator : PJG
Sample : B374045-BLK1@ TBA
Misc :

Quant Time : Sat May 11 14:54:04 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1221{3} #2



Original Int. Results

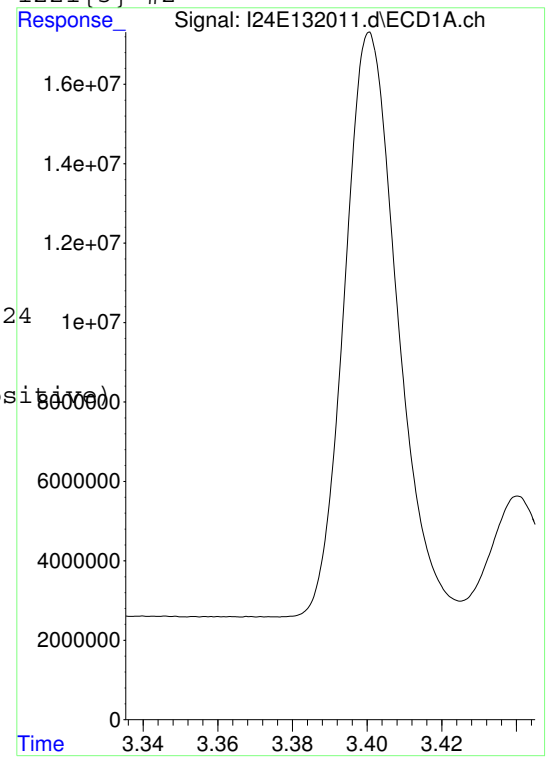
RT : 3.38
Area : 2.21335e+006
Amount: 1.47426

Manual Int. Results

Sat May 11 14:53:57 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1221{3} #2



1 - FORM I
ANALYSIS DATA SHEET

Blank

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374045-BLK1	File ID:	I24E132011.d
Sampled:		Prepared:	05/10/24 15:04	Analyzed:	05/11/24 10:08
Solids:		Preparation:	SW-846 3546	Dilution:	
Initial/Final:	10.04 g / 10 mL				
Batch:	B374045	Sequence:	S104387	Calibration:	2400478
Instrument:	ECD 9				
Column:	2				

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016 [2C]		0.0049	0.020	
11104-28-2	Aroclor-1221 [2C]		0.010	0.020	
11141-16-5	Aroclor-1232 [2C]		0.0049	0.020	
53469-21-9	Aroclor-1242 [2C]		0.0067	0.020	
12672-29-6	Aroclor-1248 [2C]		0.0050	0.020	
11097-69-1	Aroclor-1254 [2C]		0.0076	0.020	
11096-82-5	Aroclor-1260 [2C]		0.0053	0.020	
37324-23-5	Aroclor-1262 [2C]		0.0057	0.020	
11100-14-4	Aroclor-1268 [2C]		0.0064	0.020	

Quantitation Report (QT Reviewed)

3590

Data Path : C:\msdchem\1\data\051124\
Data File : I24E132011.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 May 2024 10:08 am
Operator : PJG
Sample : B374045-BLK1@ TBA Inst : ECD 9
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 11 14:54:04 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	3.074	2.995	8716.6E6	8473.1E6	132.719	146.451
2) S	Decachlor...	7.212	7.315	7577.5E6	7165.4E6	136.516	143.867
	Target Compounds						
3) L1	1016{1}	0.000	0.000	0	0	N.D. d	N.D. d
4) L1	1016{2}	0.000	0.000	0	0	N.D. d	N.D. d
5) L1	1016{3}	0.000	0.000	0	0	N.D. d	N.D. d
6) L1	1016{4}	0.000	0.000	0	0	N.D. d	N.D. d
7) L1	1016{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016			0	0	N.D.	N.D.
Average	1016					0.000	0.000
8) L7	1260{1}	0.000	0.000	0	0	N.D. d	N.D. d
9) L7	1260{2}	0.000	0.000	0	0	N.D. d	N.D. d
10) L7	1260{3}	0.000	0.000	0	0	N.D. d	N.D. d
11) L7	1260{4}	0.000	0.000	0	0	N.D. d	N.D. d
12) L7	1260{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260			0	0	N.D.	N.D.
Average	1260					0.000	0.000
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\051124\
Data File : I24E132011.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 May 2024 10:08 am
Operator : PJG
Sample : B374045-BLK1@ TBA Inst : ECD 9
Misc :
ALS Vial : 11 Sample Multiplier: 1

3591

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 11 14:54:04 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32) L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232			0	0	N.D.	N.D.
Average 1232					0.000	0.000
33) L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34) L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35) L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36) L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37) L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268			0	0	N.D.	N.D.
Average 1268					0.000	0.000
38) L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39) L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40) L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221			0	0	N.D.	N.D.
Average 1221					0.000	0.000
41) L8 1262{1}	0.000	0.000	0	0	N.D. d	N.D. d
42) L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43) L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44) L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45) L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262			0	0	N.D.	N.D.
Average 1262					0.000	0.000

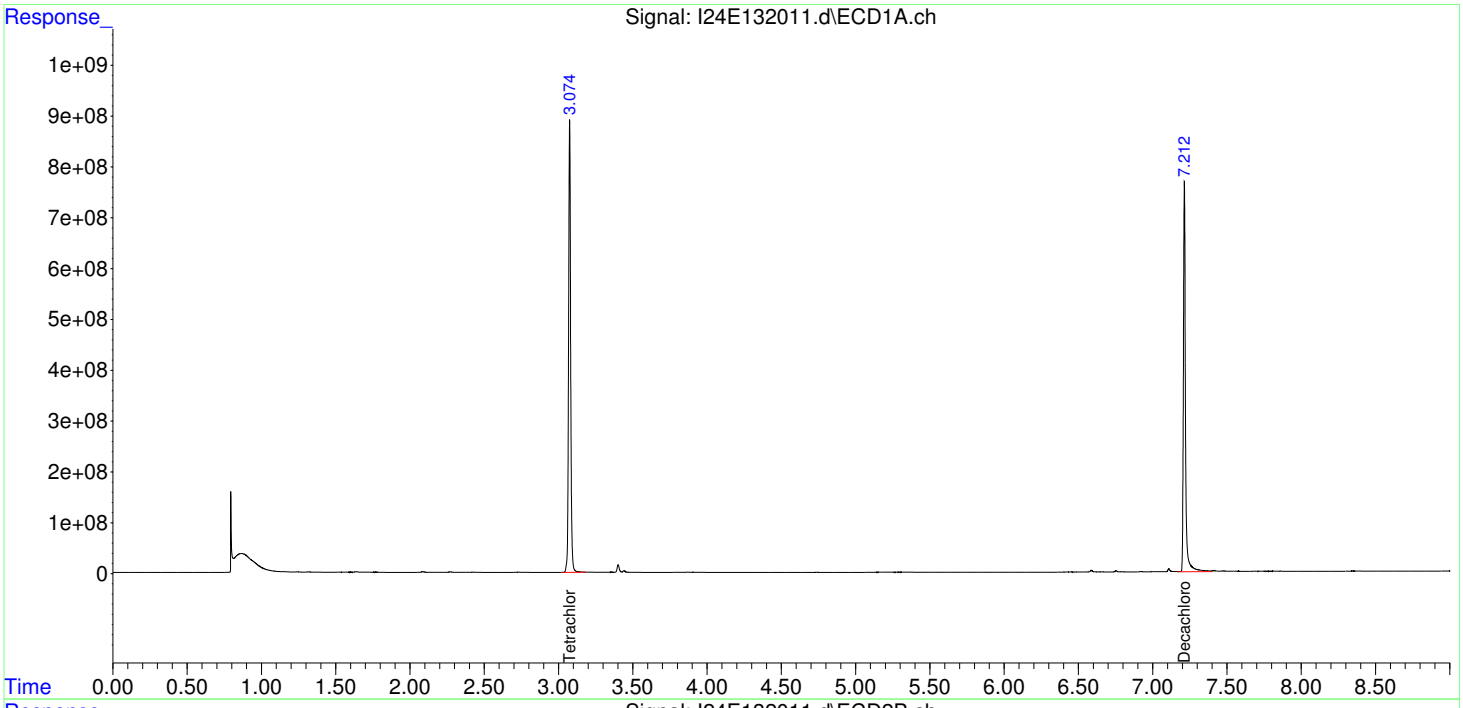
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

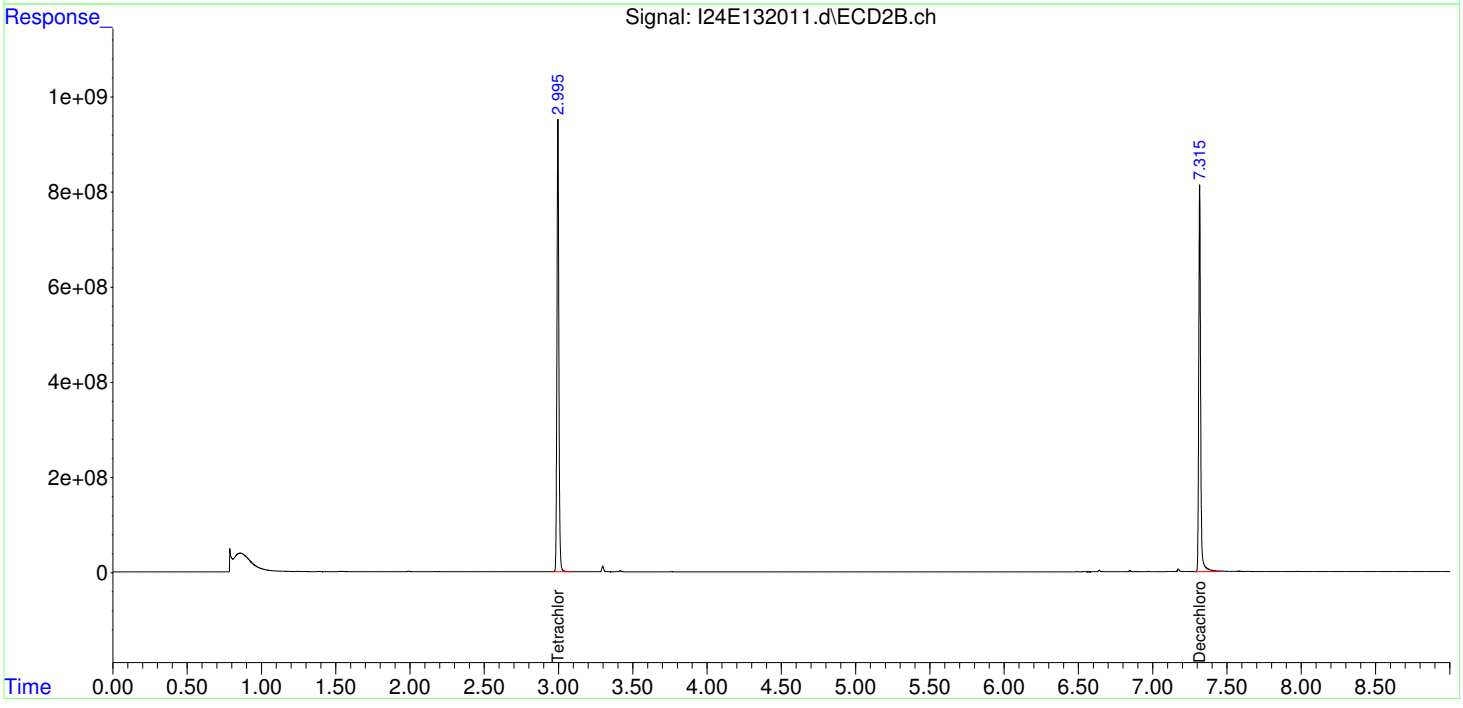
Data Path : C:\msdchem\1\data\051124\
Data File : I24E132011.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 May 2024 10:08 am
Operator : PJG
Sample : B374045-BLK1@ TBA Inst : ECD 9
Misc :
ALS Vial : 11 Sample Multiplier: 1

3592

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 11 14:54:04 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

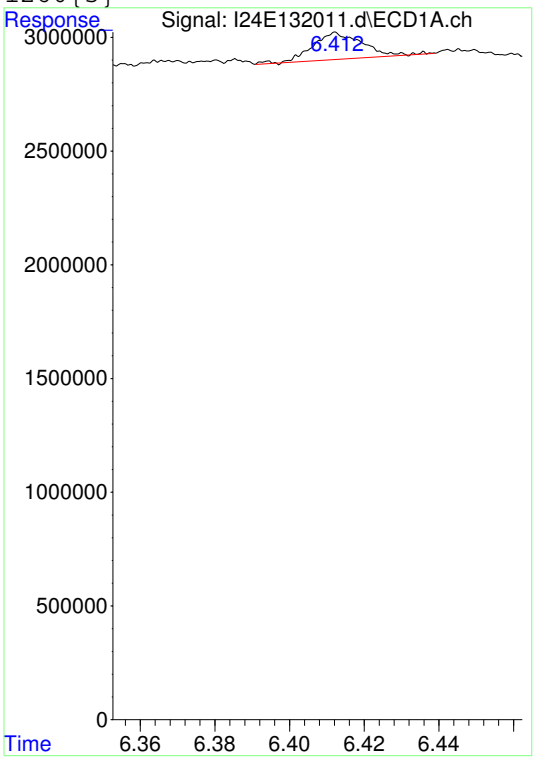




Data Path : C:\msdchem\1\data\051124\
Data File : I24E132011.d
Acq On : 11 May 2024 10:08 am
Operator : PJG
Sample : B374045-BLK1@ TBA
Misc :

Quant Time : Sat May 11 14:54:04 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1260{5}



Original Int. Results

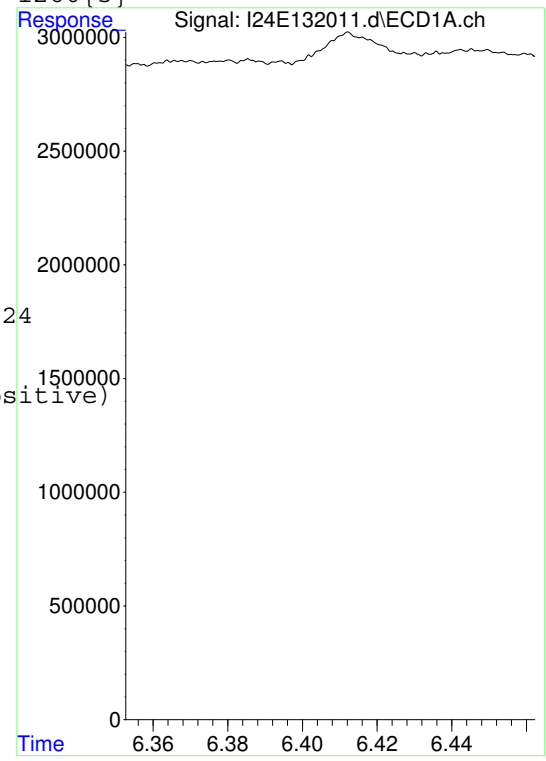
RT : 6.41
Area : 1.06858e+006
Amount: 0.126468

Manual Int. Results

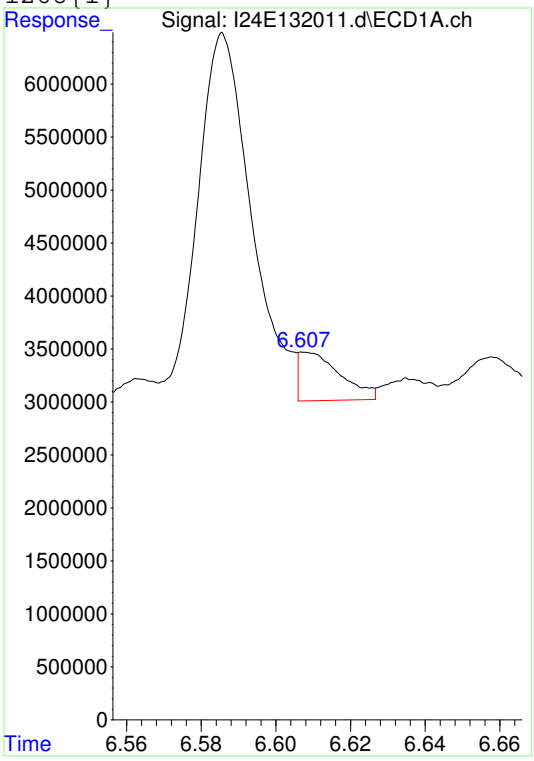
Sat May 11 14:54:02 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1260{5}



Original Integration
1268{1}



Original Int. Results

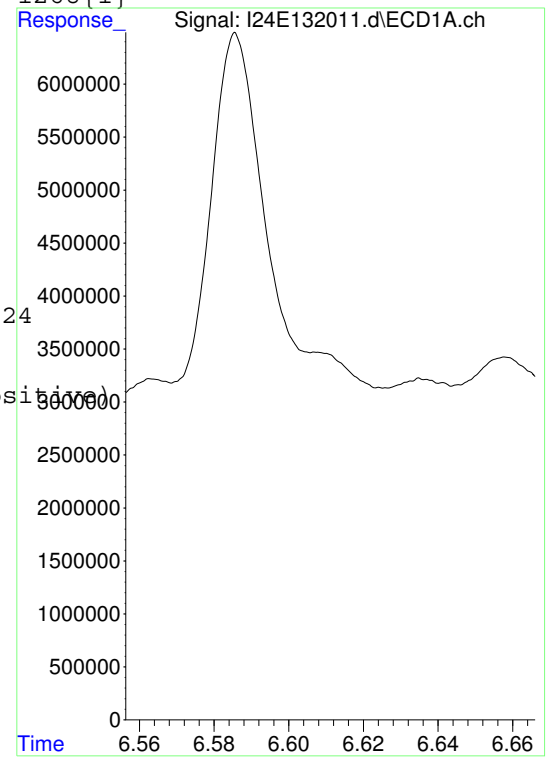
RT : 6.61
Area : 3.54802e+006
Amount: 0.337405

Manual Int. Results

Sat May 11 14:53:58 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

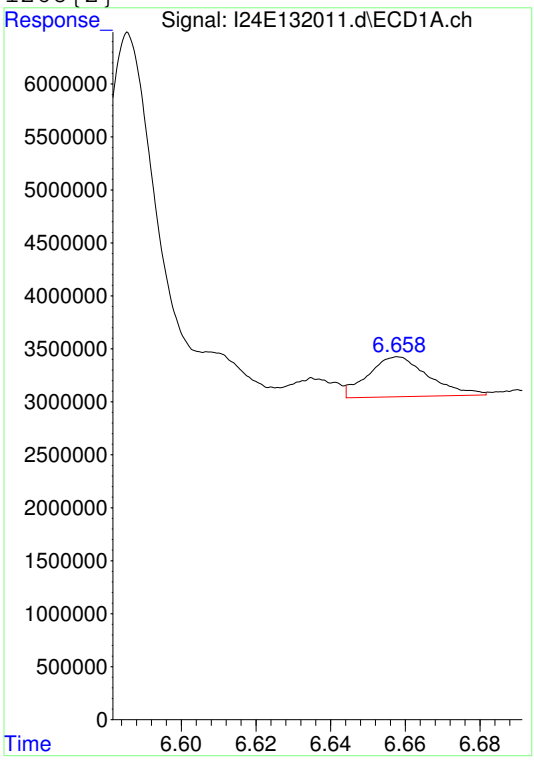
Manual Integration
1268{1}



Data Path : C:\msdchem\1\data\051124\
Data File : I24E132011.d
Acq On : 11 May 2024 10:08 am
Operator : PJG
Sample : B374045-BLK1@ TBA
Misc :

Quant Time : Sat May 11 14:54:04 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1268{2}



Original Int. Results

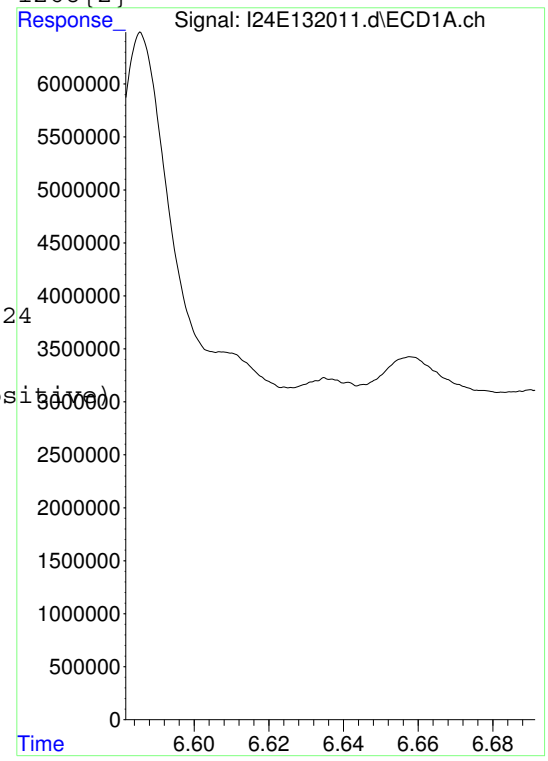
RT : 6.66
Area : 4.23185e+006
Amount: 0.39522

Manual Int. Results

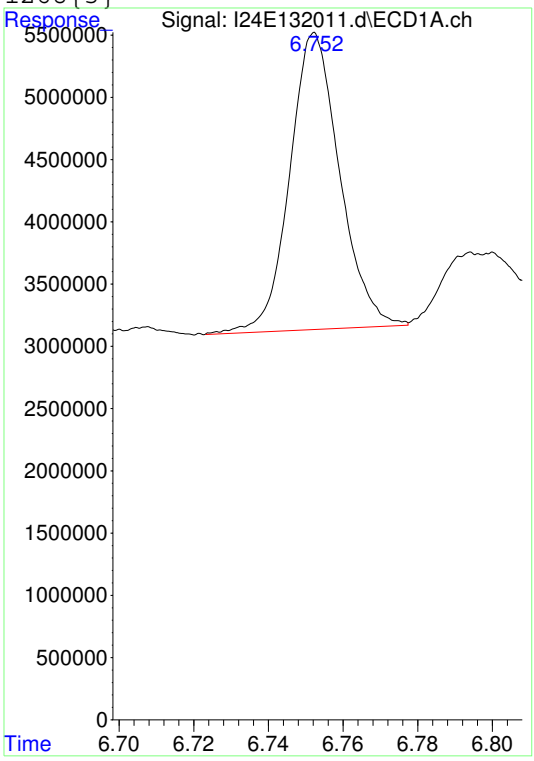
Sat May 11 14:53:58 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1268{2}



Original Integration
1268{3}



Original Int. Results

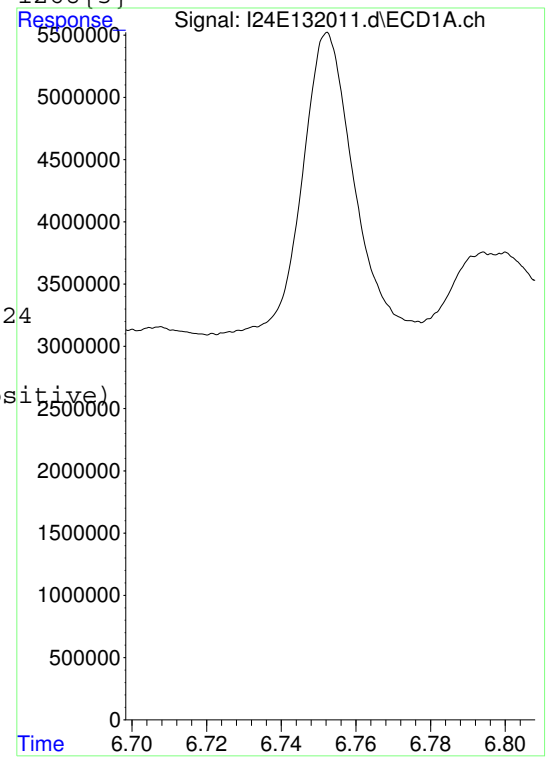
RT : 6.75
Area : 2.21517e+007
Amount: 2.30413

Manual Int. Results

Sat May 11 14:53:58 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

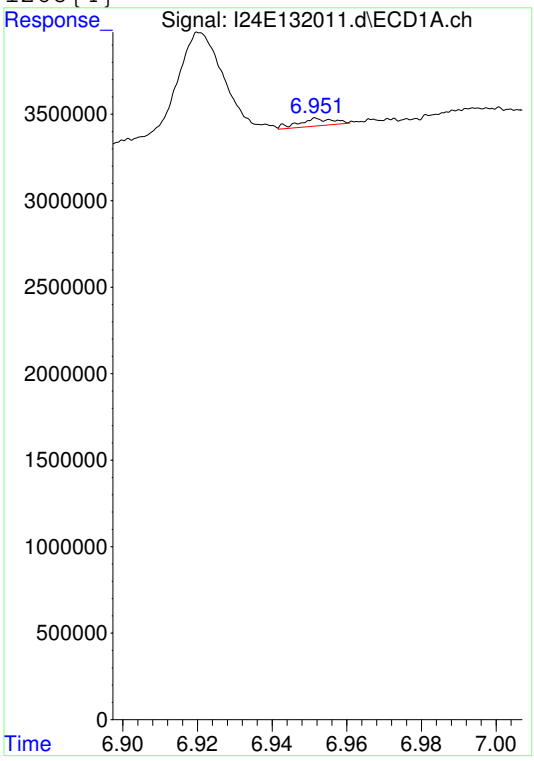
Manual Integration
1268{3}



Data Path : C:\msdchem\1\data\051124\
Data File : I24E132011.d
Acq On : 11 May 2024 10:08 am
Operator : PJG
Sample : B374045-BLK1@ TBA
Misc :

Quant Time : Sat May 11 14:54:04 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1268{4}



Original Int. Results

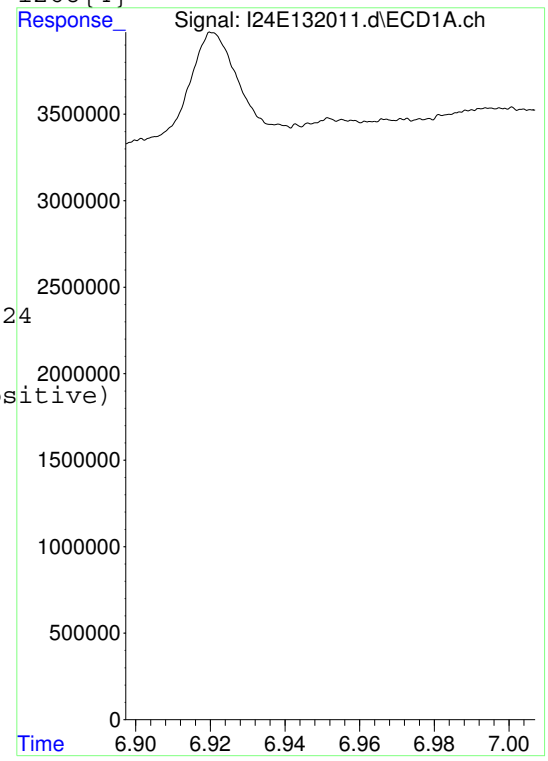
RT : 6.95
Area : 266630
Amount: 0.0911543

Manual Int. Results

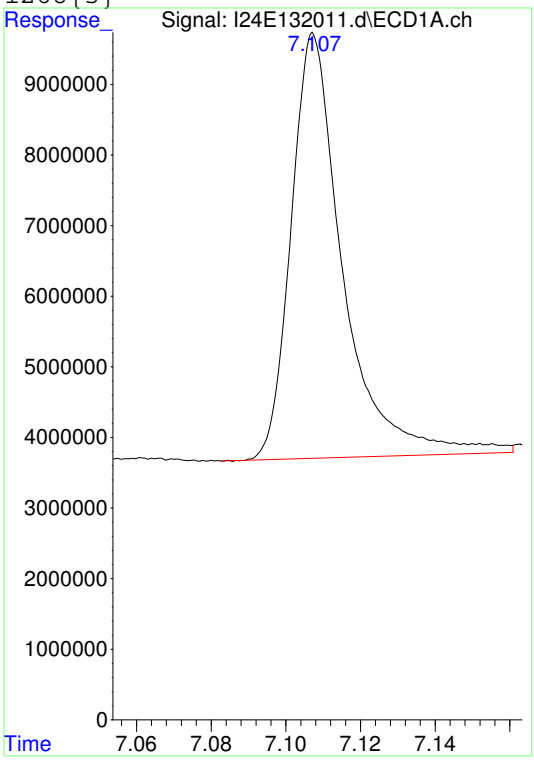
Sat May 11 14:53:58 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1268{4}



Original Integration
1268{5}



Original Int. Results

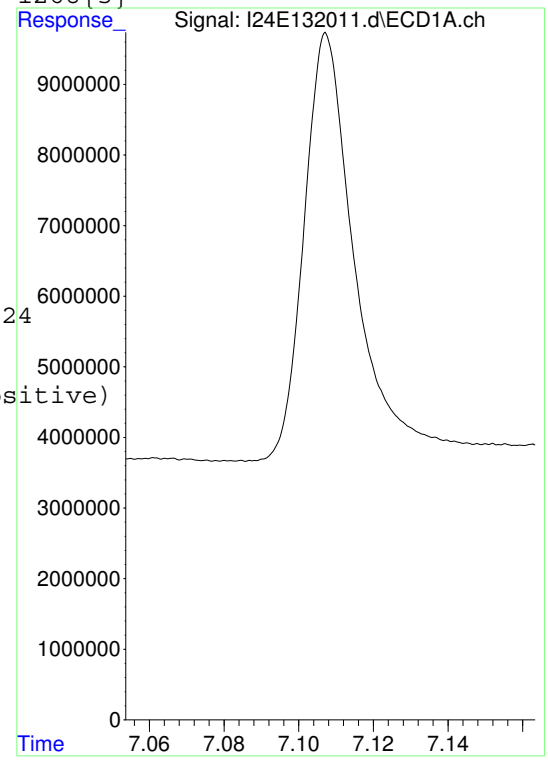
RT : 7.11
Area : 5.81367e+007
Amount: 2.35217

Manual Int. Results

Sat May 11 14:53:57 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

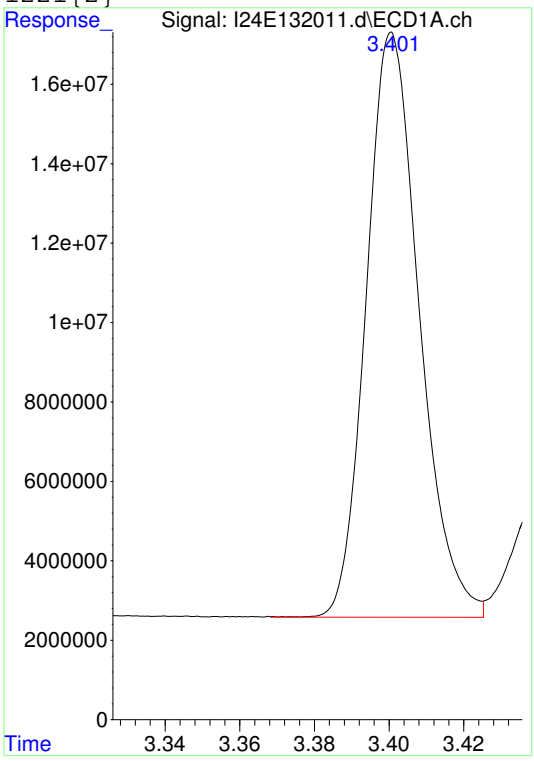
Manual Integration
1268{5}



Data Path : C:\msdchem\1\data\051124\
Data File : I24E132011.d
Acq On : 11 May 2024 10:08 am
Operator : PJG
Sample : B374045-BLK1@ TBA
Misc :

Quant Time : Sat May 11 14:54:04 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1221{2}



Original Int. Results

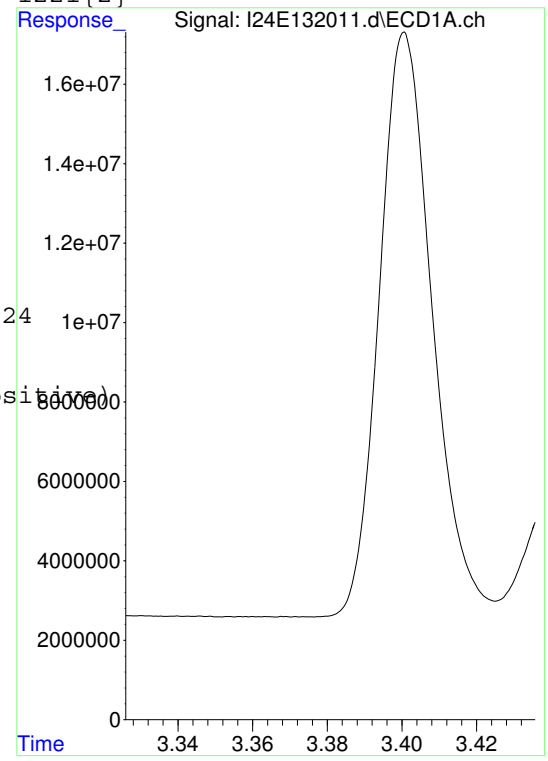
RT : 3.40
Area : 1.45001e+008
Amount: 70.1628

Manual Int. Results

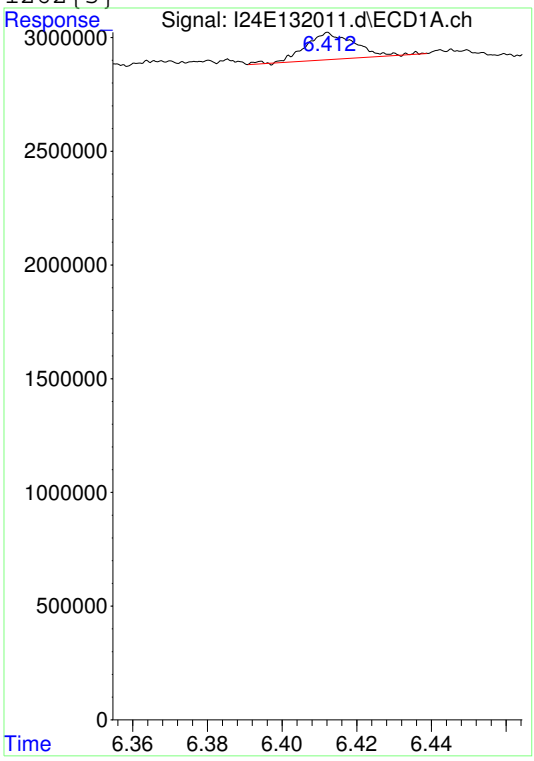
Sat May 11 14:53:57 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1221{2}



Original Integration
1262{5}



Original Int. Results

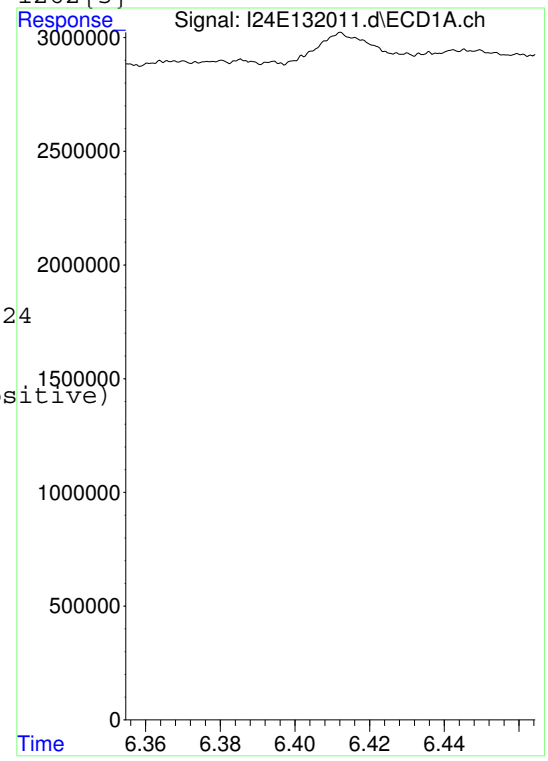
RT : 6.41
Area : 1.06858e+006
Amount: 0.106046

Manual Int. Results

Sat May 11 14:53:55 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

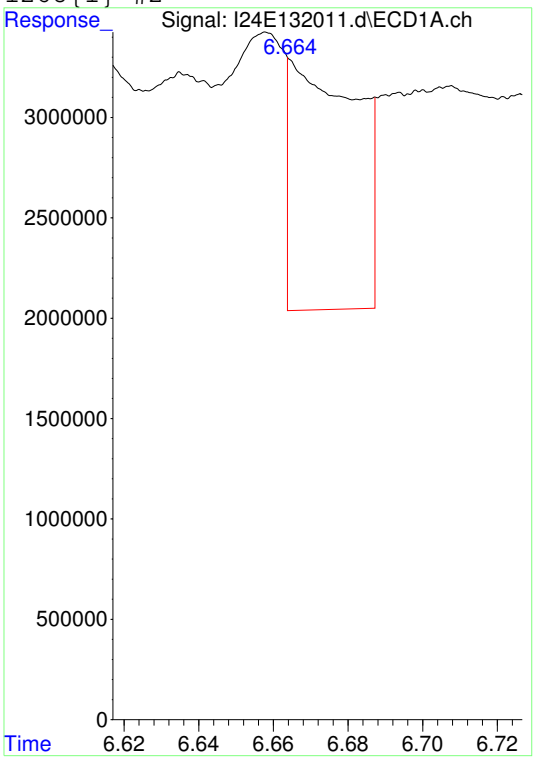
Manual Integration
1262{5}



Data Path : C:\msdchem\1\data\051124\
Data File : I24E132011.d
Acq On : 11 May 2024 10:08 am
Operator : PJG
Sample : B374045-BLK1@ TBA
Misc :

Quant Time : Sat May 11 14:54:04 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1268{1} #2



Original Int. Results

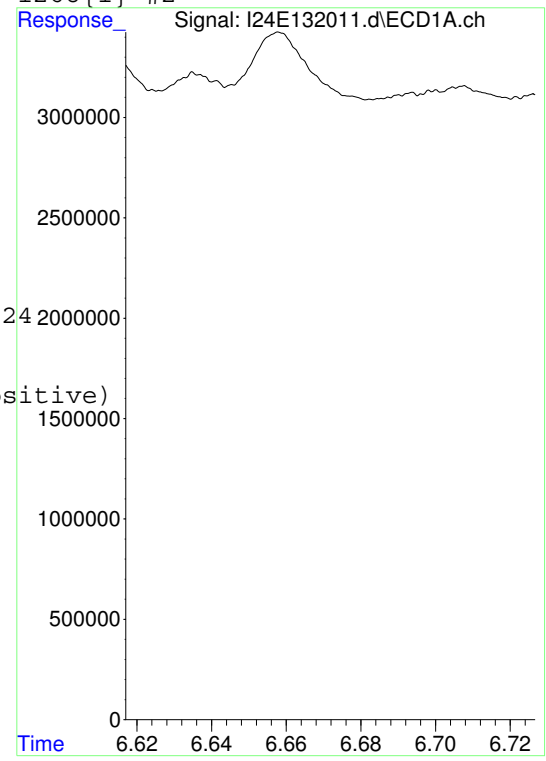
RT : 6.67
Area : 2.6709e+006
Amount: 0.32491

Manual Int. Results

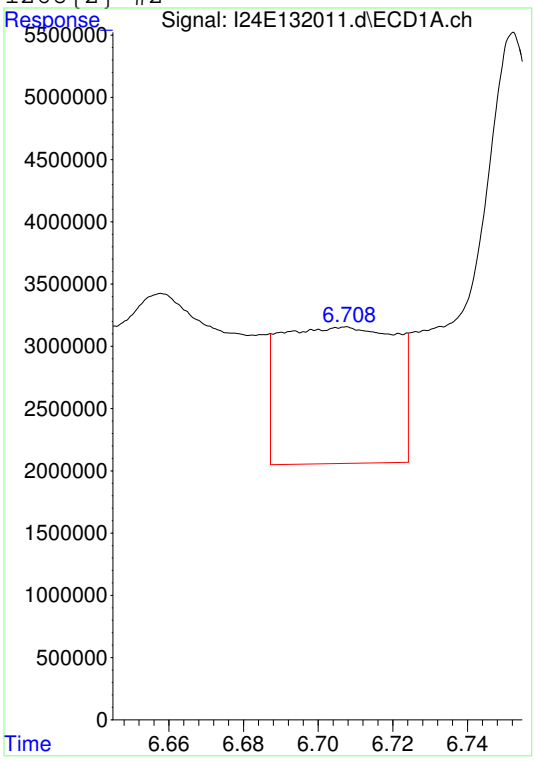
Sat May 11 14:53:58 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1268{1} #2



Original Integration
1268{2} #2



Original Int. Results

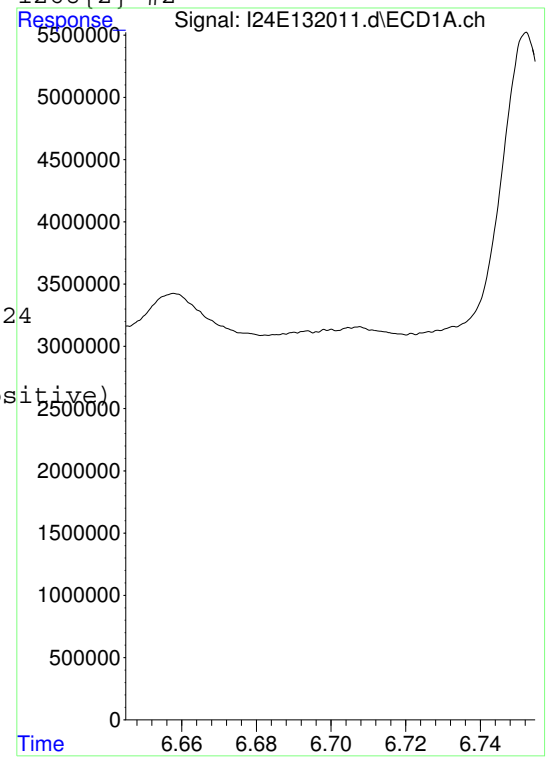
RT : 6.71
Area : 2.41855e+006
Amount: 0.301152

Manual Int. Results

Sat May 11 14:53:58 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

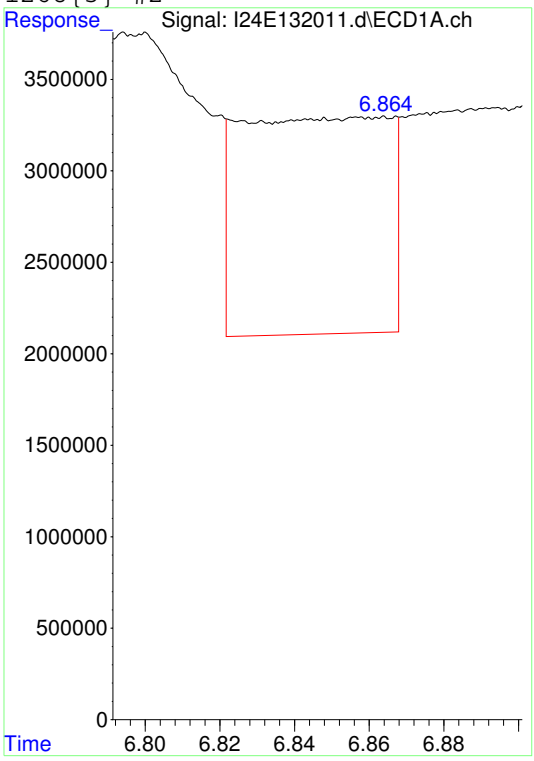
Manual Integration
1268{2} #2



Data Path : C:\msdchem\1\data\051124\
Data File : I24E132011.d
Acq On : 11 May 2024 10:08 am
Operator : PJG
Sample : B374045-BLK1@ TBA
Misc :

Quant Time : Sat May 11 14:54:04 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1268{3} #2



Original Int. Results

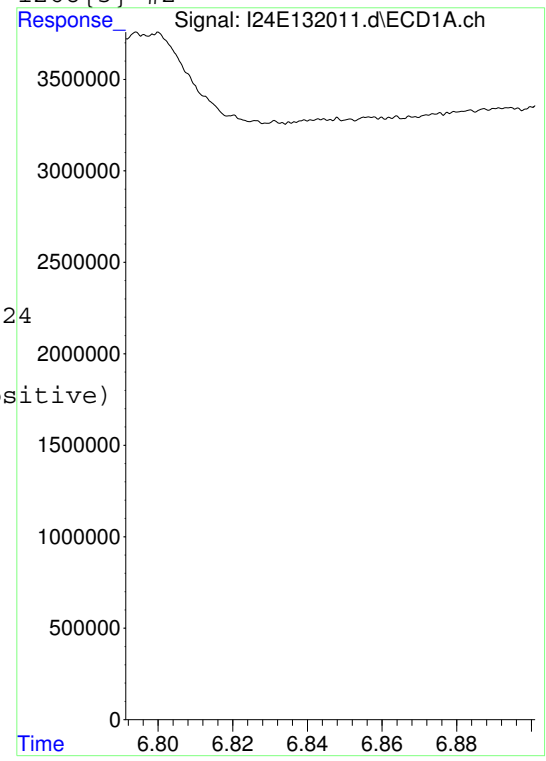
RT : 6.85
Area : 1.79544e+007
Amount: 2.41078

Manual Int. Results

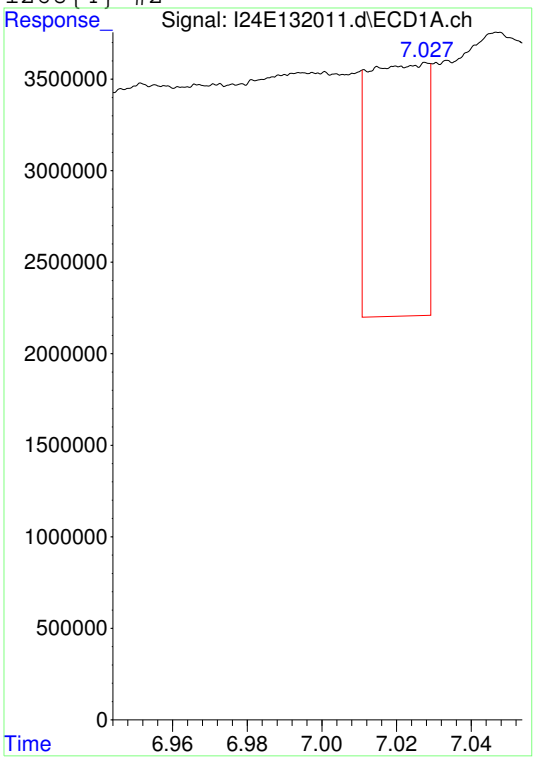
Sat May 11 14:53:58 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1268{3} #2



Original Integration
1268{4} #2



Original Int. Results

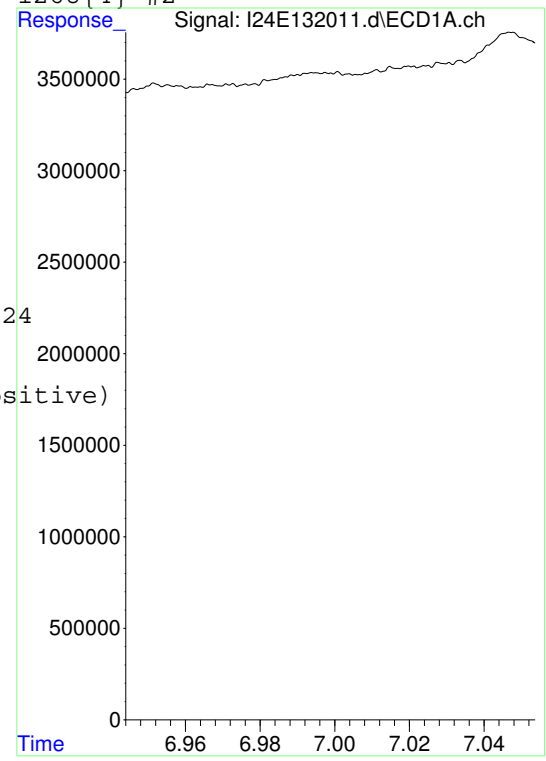
RT : 7.02
Area : 766015
Amount: 0.35924

Manual Int. Results

Sat May 11 14:53:58 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

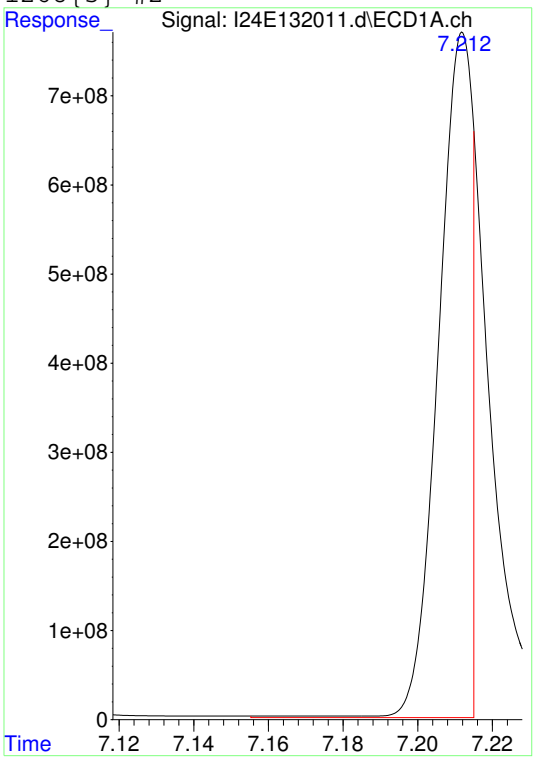
Manual Integration
1268{4} #2



Data Path : C:\msdchem\1\data\051124\
Data File : I24E132011.d
Acq On : 11 May 2024 10:08 am
Operator : PJG
Sample : B374045-BLK1@ TBA
Misc :

Quant Time : Sat May 11 14:54:04 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1268{5} #2



Original Int. Results

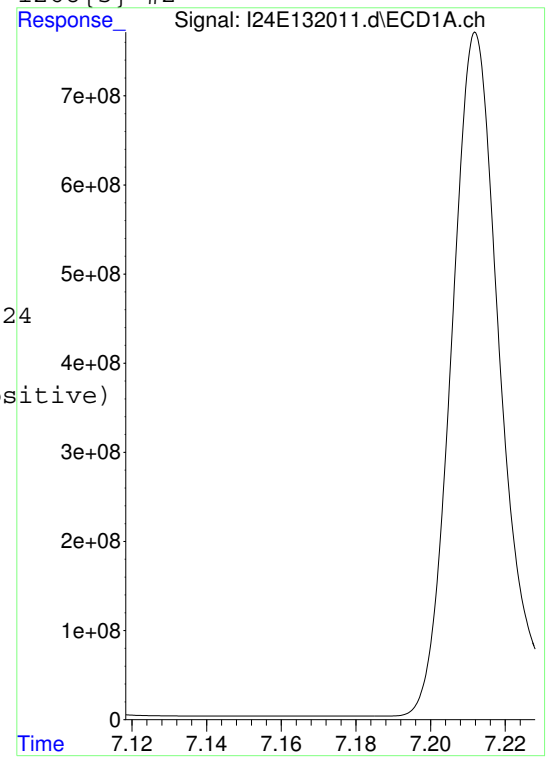
RT : 7.17
Area : 5.24182e+007
Amount: 2.58444

Manual Int. Results

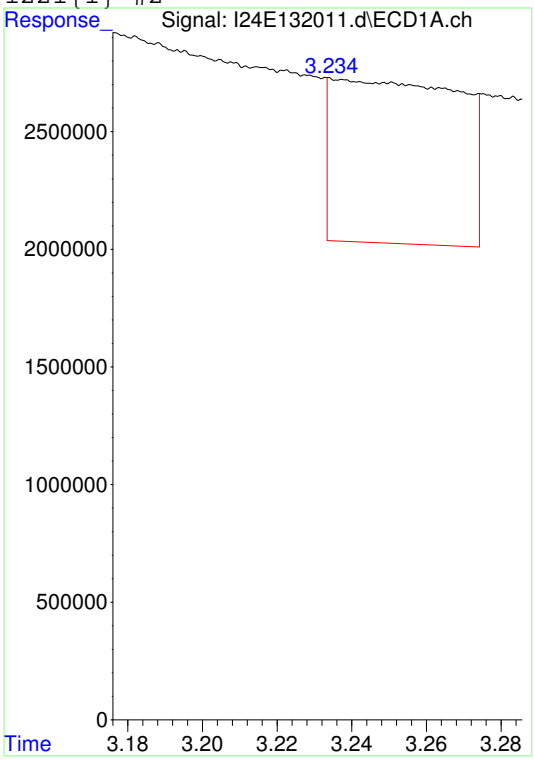
Sat May 11 14:53:57 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1268{5} #2



Original Integration
1221{1} #2



Original Int. Results

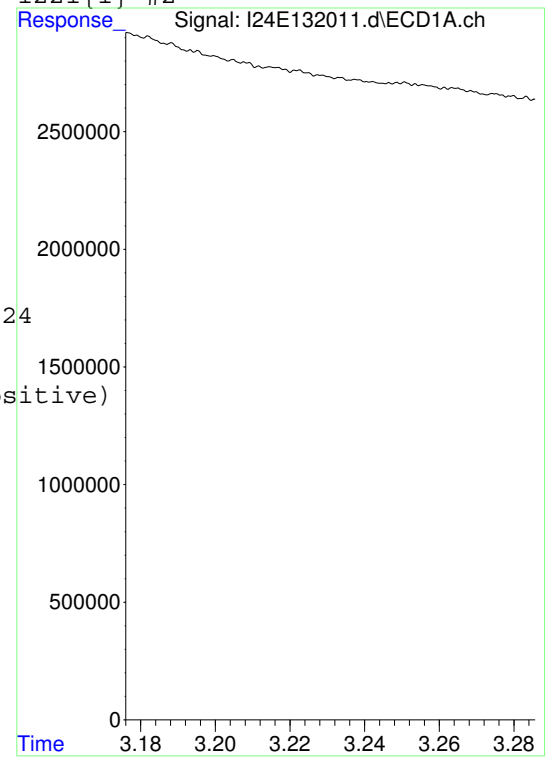
RT : 3.25
Area : 1.13413e+006
Amount: 1.74728

Manual Int. Results

Sat May 11 14:53:57 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

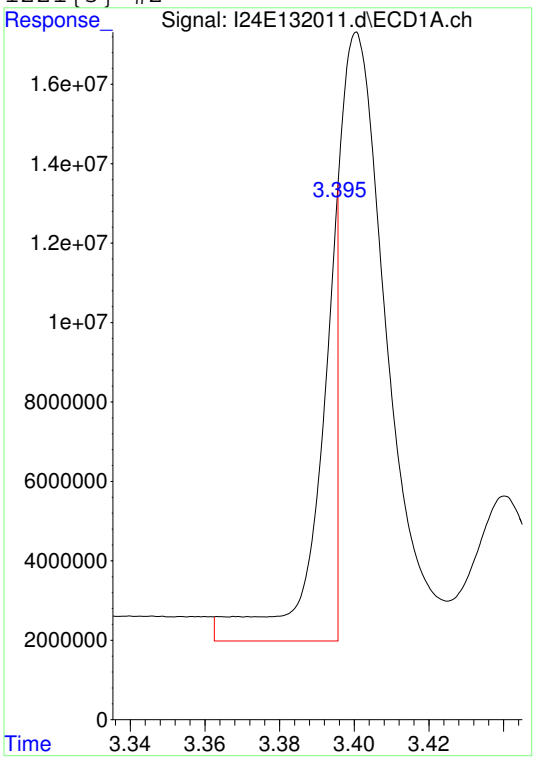
Manual Integration
1221{1} #2



Data Path : C:\msdchem\1\data\051124\
Data File : I24E132011.d
Acq On : 11 May 2024 10:08 am
Operator : PJG
Sample : B374045-BLK1@ TBA
Misc :

Quant Time : Sat May 11 14:54:04 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
QLast Update : Sun Apr 28 09:26:05 2024

Original Integration
1221{3} #2



Original Int. Results

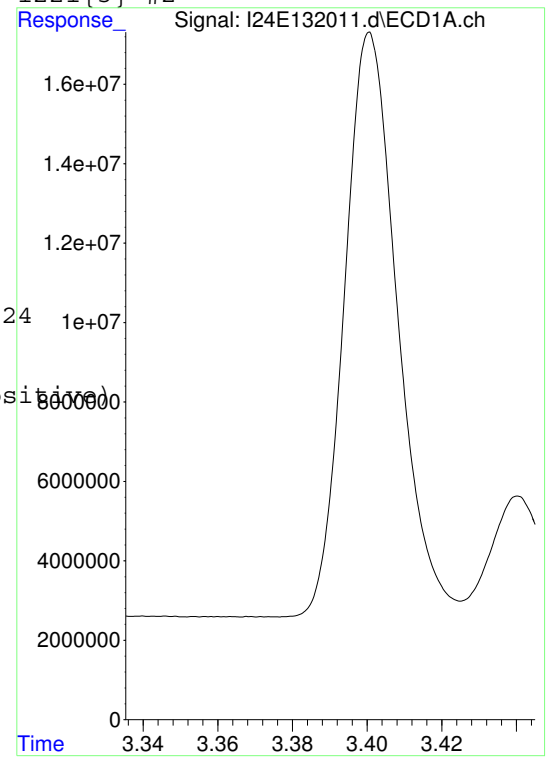
RT : 3.38
Area : 2.21335e+006
Amount: 1.47426

Manual Int. Results

Sat May 11 14:53:57 2024

MIuser: SFM
Reason: QDel (False Positive)
RT : 0.00
Area : 0
Amount: 0

Manual Integration
1221{3} #2



1 - FORM I
ANALYSIS DATA SHEET

LCS

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374045-BS1	File ID:	I24E132012.d
Sampled:		Prepared:	05/10/24 15:04	Analyzed:	05/11/24 10:20
Solids:		Preparation:	SW-846 3546	Dilution:	
Initial/Final:	10.08 g / 10 mL				
Batch:	B374045	Sequence:	S104387	Calibration:	2400478
Instrument:	ECD 9				
Column:	1				

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016	0.14	0.0049	0.020	
11096-82-5	Aroclor-1260	0.14	0.0041	0.020	

Quantitation Report (QT Reviewed)

3602

Data Path : C:\msdchem\1\data\051124\
Data File : I24E132012.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 May 2024 10:20 am
Operator : PJG
Sample : B374045-BS1@ TBA Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 11 14:54:25 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	3.075	2.996	10753.8E6	10496.3E6	163.739	181.421
2) S	Decachlor...	7.212	7.315	9003.5E6	8641.9E6	162.206	173.511
	Target Compounds						
3) L1	1016{1}	3.811	3.865	130.9E6	106.3E6	137.851	140.459
4) L1	1016{2}	4.043	4.061	574.1E6	489.0E6	140.719	151.100
5) L1	1016{3}	4.150	4.247	409.6E6	189.0E6	138.755	144.901
6) L1	1016{4}	4.479	4.536	308.2E6	244.1E6	143.091	144.716
7) L1	1016{5}	4.550	4.635	204.8E6	226.3E6	142.200	142.878
Sum	1016			1627.7E6	1254.7E6	702.615	724.054
Average	1016					140.523	144.811
8) L7	1260{1}	5.476	5.559	564.9E6	453.8E6	134.782	131.470
9) L7	1260{2}	5.704	5.730	854.2E6	557.3E6	137.451	138.226
10) L7	1260{3}	6.019	6.080	557.3E6	423.9E6	139.714	140.197
11) L7	1260{4}	6.201	6.288	558.3E6	484.3E6	138.542	141.889
12) L7	1260{5}	6.409	6.450	1167.5E6	1014.6E6	138.170	140.709
Sum	1260			3702.1E6	2933.8E6	688.658	692.491
Average	1260					137.732	138.498
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\051124\
Data File : I24E132012.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 May 2024 10:20 am
Operator : PJG
Sample : B374045-BS1@ TBA Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 12 Sample Multiplier: 1

3603

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 11 14:54:25 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40)	L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D. d	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

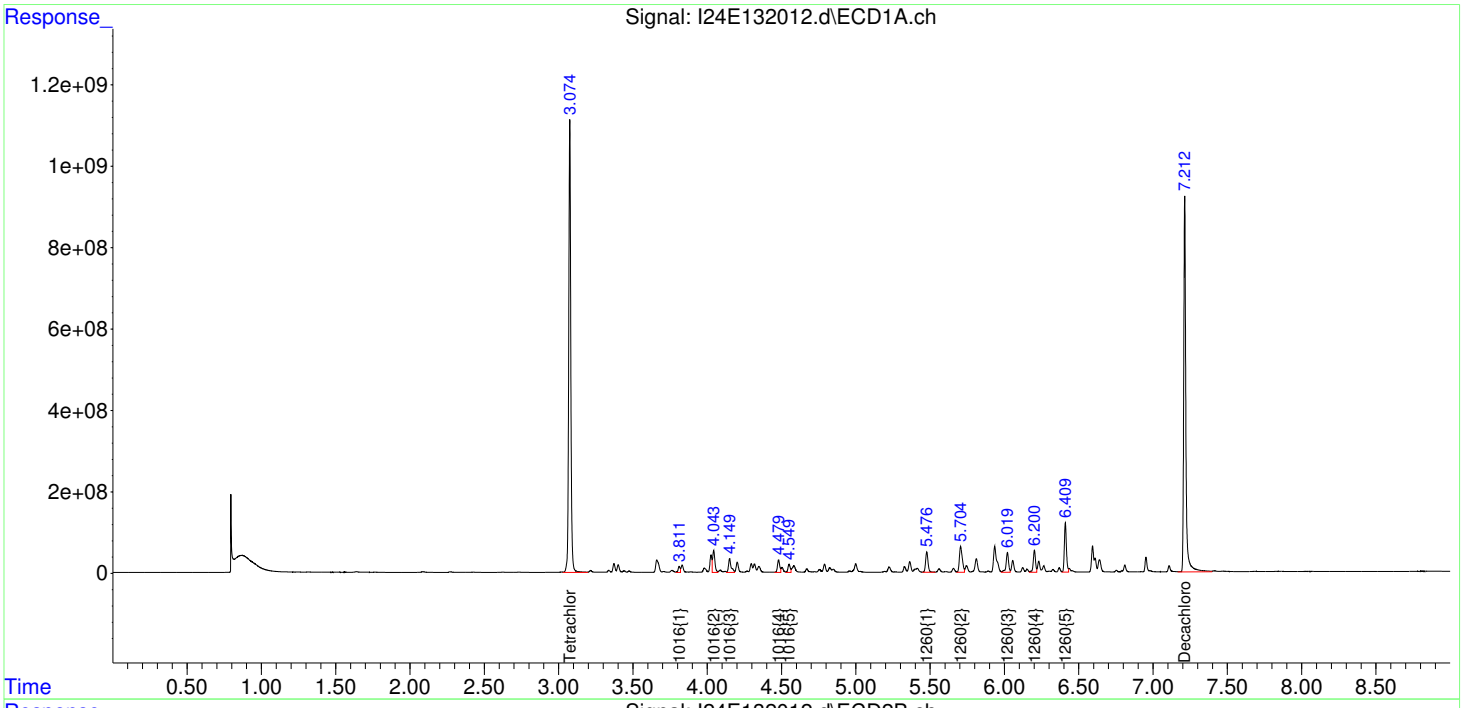
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

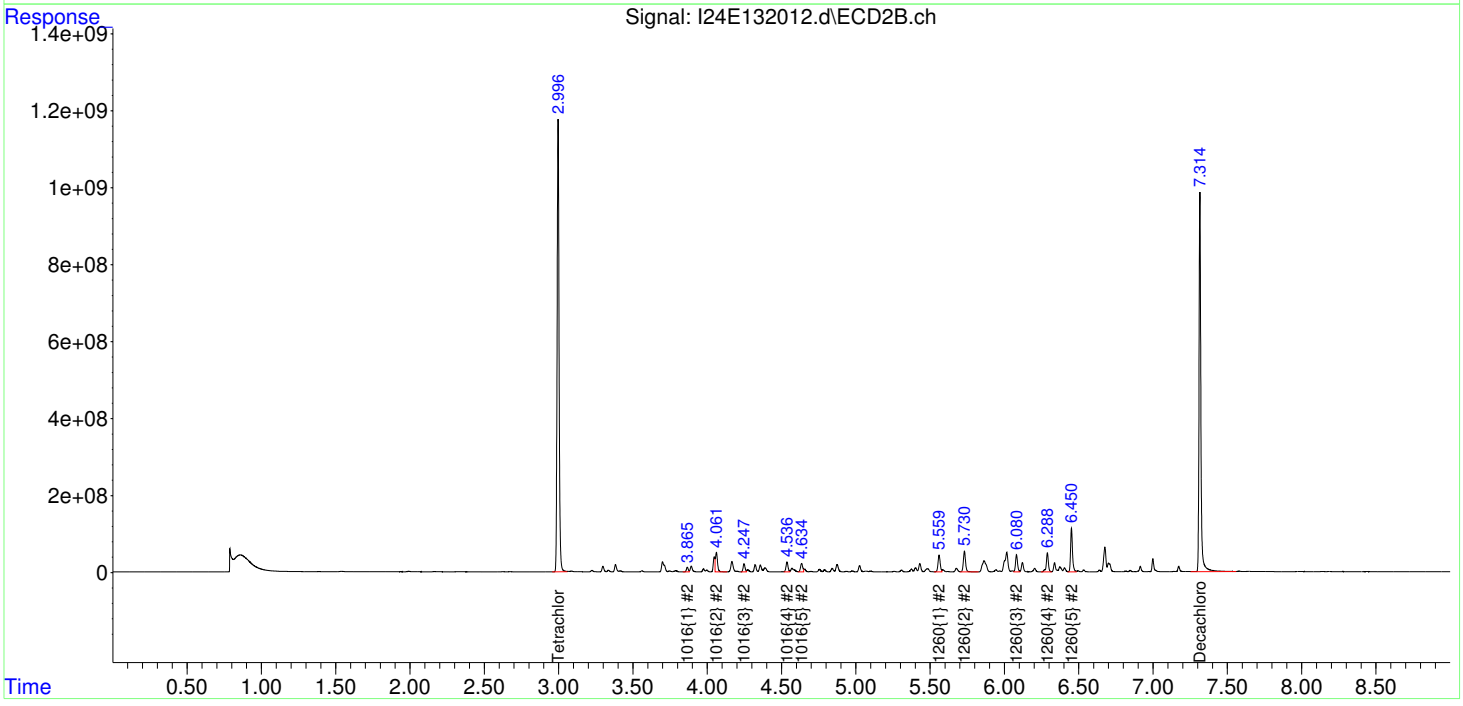
Data Path : C:\msdchem\1\data\051124\
Data File : I24E132012.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 May 2024 10:20 am
Operator : PJG
Sample : B374045-BS1@ TBA Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 12 Sample Multiplier: 1

3604

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 11 14:54:25 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





1 - FORM I
ANALYSIS DATA SHEET

LCS

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374045-BS1	File ID:	I24E132012.d
Sampled:		Prepared:	05/10/24 15:04	Analyzed:	05/11/24 10:20
Solids:		Preparation:	SW-846 3546	Dilution:	
Initial/Final:	10.08 g / 10 mL				
Batch:	B374045	Sequence:	S104387	Calibration:	2400478
Instrument:	ECD 9				
Column:	2				

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016 [2C]	0.14	0.0049	0.020	
11096-82-5	Aroclor-1260 [2C]	0.14	0.0052	0.020	

Quantitation Report (QT Reviewed)

3606

Data Path : C:\msdchem\1\data\051124\
Data File : I24E132012.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 May 2024 10:20 am
Operator : PJG
Sample : B374045-BS1@ TBA Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 11 14:54:25 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	3.075	2.996	10753.8E6	10496.3E6	163.739	181.421
2) S	Decachlor...	7.212	7.315	9003.5E6	8641.9E6	162.206	173.511
	Target Compounds						
3) L1	1016{1}	3.811	3.865	130.9E6	106.3E6	137.851	140.459
4) L1	1016{2}	4.043	4.061	574.1E6	489.0E6	140.719	151.100
5) L1	1016{3}	4.150	4.247	409.6E6	189.0E6	138.755	144.901
6) L1	1016{4}	4.479	4.536	308.2E6	244.1E6	143.091	144.716
7) L1	1016{5}	4.550	4.635	204.8E6	226.3E6	142.200	142.878
Sum	1016			1627.7E6	1254.7E6	702.615	724.054
Average	1016					140.523	144.811
8) L7	1260{1}	5.476	5.559	564.9E6	453.8E6	134.782	131.470
9) L7	1260{2}	5.704	5.730	854.2E6	557.3E6	137.451	138.226
10) L7	1260{3}	6.019	6.080	557.3E6	423.9E6	139.714	140.197
11) L7	1260{4}	6.201	6.288	558.3E6	484.3E6	138.542	141.889
12) L7	1260{5}	6.409	6.450	1167.5E6	1014.6E6	138.170	140.709
Sum	1260			3702.1E6	2933.8E6	688.658	692.491
Average	1260					137.732	138.498
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\051124\
Data File : I24E132012.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 May 2024 10:20 am
Operator : PJG
Sample : B374045-BS1@ TBA Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 12 Sample Multiplier: 1

3607

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 11 14:54:25 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40)	L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D. d	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

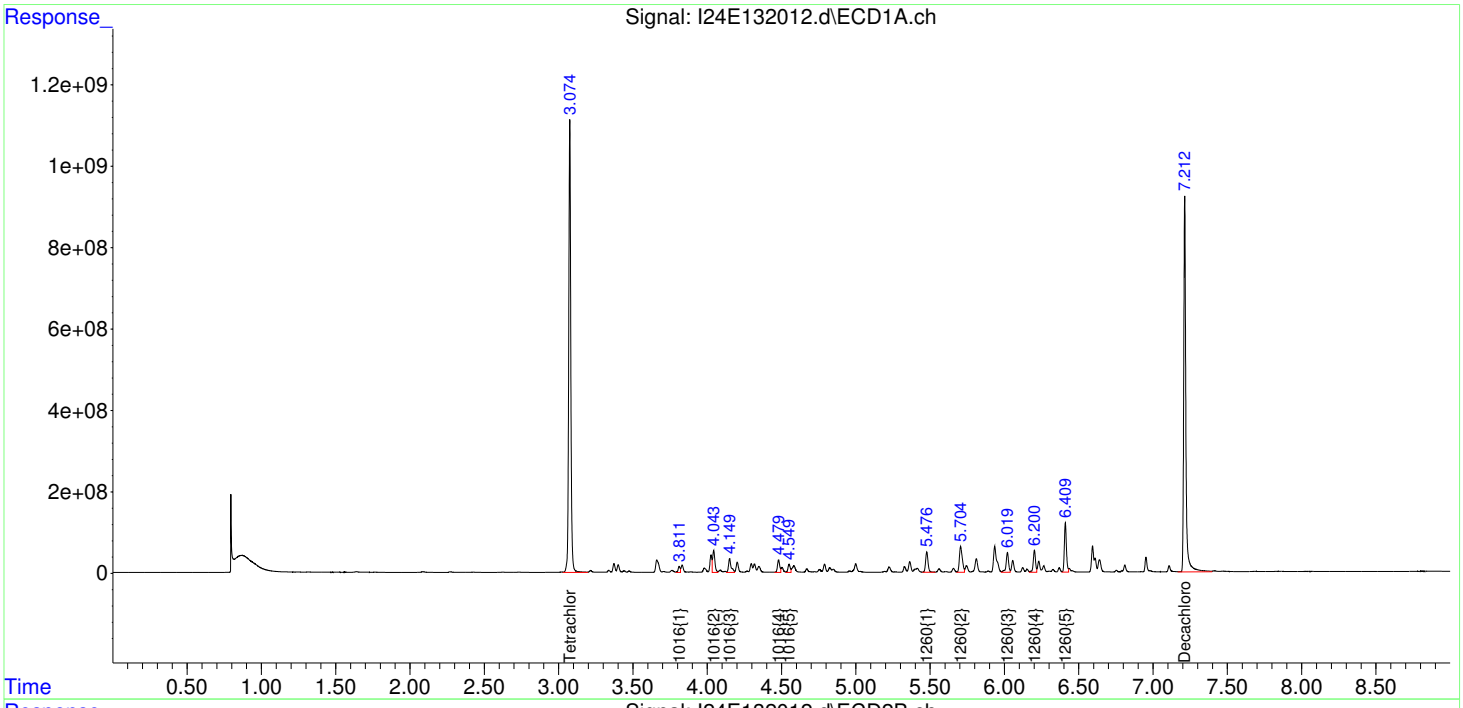
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

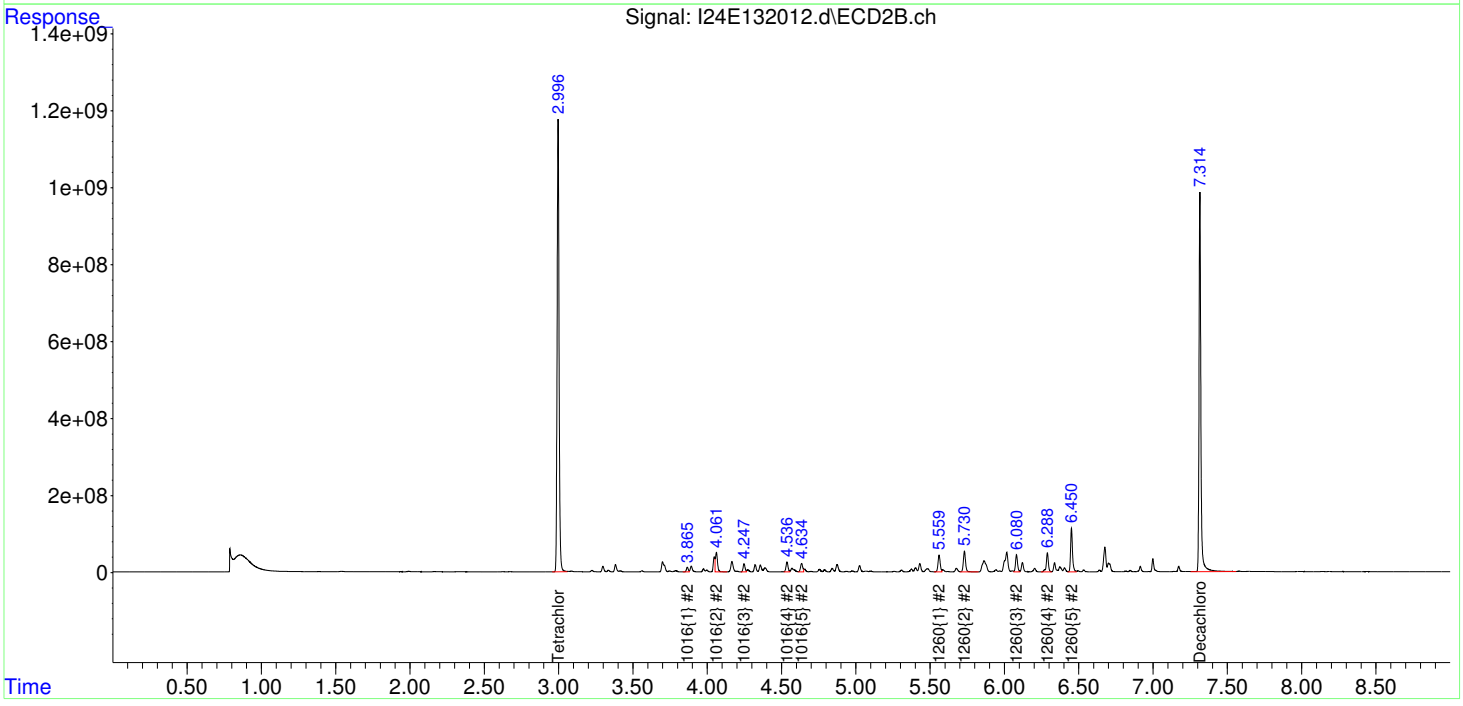
Data Path : C:\msdchem\1\data\051124\
Data File : I24E132012.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 May 2024 10:20 am
Operator : PJG
Sample : B374045-BS1@ TBA Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 12 Sample Multiplier: 1

3608

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 11 14:54:25 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





1 - FORM I
ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374045-BSD1	File ID:	I24E132013.d
Sampled:		Prepared:	05/10/24 15:04	Analyzed:	05/11/24 10:32
Solids:		Preparation:	SW-846 3546	Dilution:	
Initial/Final:	10.08 g / 10 mL				
Batch:	B374045	Sequence:	S104387	Calibration:	2400478
Instrument:	ECD 9				
Column:	1				

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016	0.13	0.0049	0.020	
11096-82-5	Aroclor-1260	0.13	0.0041	0.020	

Quantitation Report (QT Reviewed)

3610

Data Path : C:\msdchem\1\data\051124\
Data File : I24E132013.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 May 2024 10:32 am
Operator : PJG
Sample : B374045-BSD1@ TBA Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 11 14:55:25 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	3.074	2.996	9891.8E6	9652.4E6	150.614	166.836
2) S	Decachlor...	7.211	7.315	8139.8E6	7768.4E6	146.647	155.974
	Target Compounds						
3) L1	1016{1}	3.811	3.865	122.4E6	99376122	128.879	131.317
4) L1	1016{2}	4.043	4.062	534.5E6	452.6E6	131.010	139.838
5) L1	1016{3}	4.150	4.247	381.2E6	175.4E6	129.116	134.482
6) L1	1016{4}	4.479	4.536	286.7E6	226.5E6	133.116	134.291
7) L1	1016{5}	4.550	4.634	189.0E6	210.5E6	131.204	132.934
Sum	1016			1513.8E6	1164.4E6	653.324	672.862
Average	1016					130.665	134.572
8) L7	1260{1}	5.476	5.559	523.2E6	419.9E6	124.811	121.650
9) L7	1260{2}	5.704	5.730	793.0E6	516.5E6	127.614	128.102
10) L7	1260{3}	6.019	6.080	515.3E6	393.2E6	129.202	130.058
11) L7	1260{4}	6.200	6.288	518.1E6	449.4E6	128.554	131.673
12) L7	1260{5}	6.408	6.451	1078.0E6	940.3E6	127.582	130.406
Sum	1260			3427.6E6	2719.3E6	637.764	641.889
Average	1260					127.553	128.378
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\051124\
Data File : I24E132013.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 May 2024 10:32 am
Operator : PJG
Sample : B374045-BSD1@ TBA Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 13 Sample Multiplier: 1

3611

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 11 14:55:25 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32) L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232			0	0	N.D.	N.D.
Average 1232					0.000	0.000
33) L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34) L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35) L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36) L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37) L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268			0	0	N.D.	N.D.
Average 1268					0.000	0.000
38) L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39) L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40) L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221			0	0	N.D.	N.D.
Average 1221					0.000	0.000
41) L8 1262{1}	0.000	0.000	0	0	N.D. d	N.D. d
42) L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43) L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44) L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45) L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262			0	0	N.D.	N.D.
Average 1262					0.000	0.000

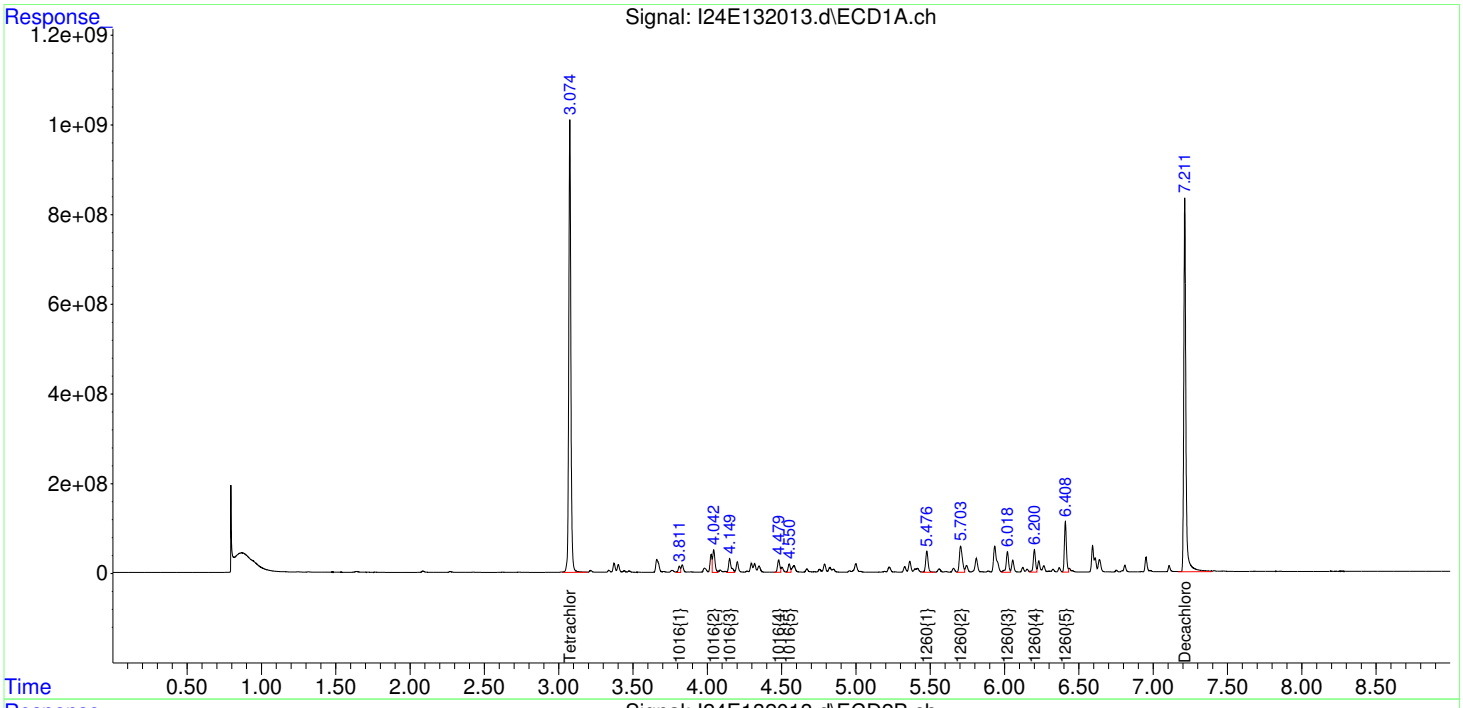
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

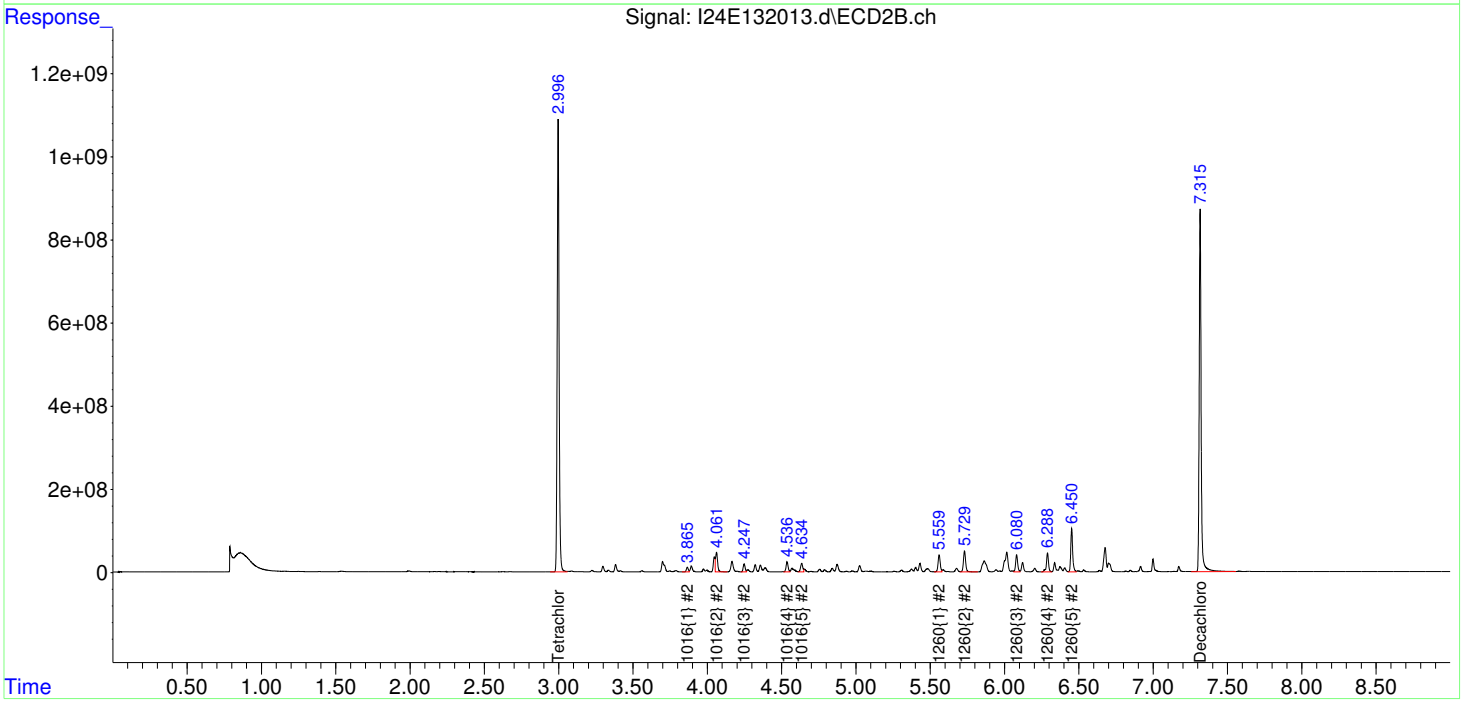
Data Path : C:\msdchem\1\data\051124\
Data File : I24E132013.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 May 2024 10:32 am
Operator : PJG
Sample : B374045-BSD1@ TBA Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 13 Sample Multiplier: 1

3612

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 11 14:55:25 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





1 - FORM I
ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374045-BSD1	File ID:	I24E132013.d
Sampled:		Prepared:	05/10/24 15:04	Analyzed:	05/11/24 10:32
Solids:		Preparation:	SW-846 3546	Dilution:	
Initial/Final:	10.08 g / 10 mL				
Batch:	B374045	Sequence:	S104387	Calibration:	2400478
Instrument:	ECD 9				
Column:	2				

CAS NO.	COMPOUND	CONC. (mg/Kg wet)	MDL	RL	Q
12674-11-2	Aroclor-1016 [2C]	0.13	0.0049	0.020	
11096-82-5	Aroclor-1260 [2C]	0.13	0.0052	0.020	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051124\
Data File : I24E132013.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 May 2024 10:32 am
Operator : PJG
Sample : B374045-BSD1@ TBA Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 11 14:55:25 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	3.074	2.996	9891.8E6	9652.4E6	150.614	166.836
2) S	Decachlor...	7.211	7.315	8139.8E6	7768.4E6	146.647	155.974
	Target Compounds						
3) L1	1016{1}	3.811	3.865	122.4E6	99376122	128.879	131.317
4) L1	1016{2}	4.043	4.062	534.5E6	452.6E6	131.010	139.838
5) L1	1016{3}	4.150	4.247	381.2E6	175.4E6	129.116	134.482
6) L1	1016{4}	4.479	4.536	286.7E6	226.5E6	133.116	134.291
7) L1	1016{5}	4.550	4.634	189.0E6	210.5E6	131.204	132.934
Sum	1016			1513.8E6	1164.4E6	653.324	672.862
Average	1016					130.665	134.572
8) L7	1260{1}	5.476	5.559	523.2E6	419.9E6	124.811	121.650
9) L7	1260{2}	5.704	5.730	793.0E6	516.5E6	127.614	128.102
10) L7	1260{3}	6.019	6.080	515.3E6	393.2E6	129.202	130.058
11) L7	1260{4}	6.200	6.288	518.1E6	449.4E6	128.554	131.673
12) L7	1260{5}	6.408	6.451	1078.0E6	940.3E6	127.582	130.406
Sum	1260			3427.6E6	2719.3E6	637.764	641.889
Average	1260					127.553	128.378
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\051124\
Data File : I24E132013.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 May 2024 10:32 am
Operator : PJG
Sample : B374045-BSD1@ TBA Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 13 Sample Multiplier: 1

3615

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 11 14:55:25 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32) L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232			0	0	N.D.	N.D.
Average 1232					0.000	0.000
33) L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34) L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35) L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36) L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37) L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268			0	0	N.D.	N.D.
Average 1268					0.000	0.000
38) L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39) L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40) L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221			0	0	N.D.	N.D.
Average 1221					0.000	0.000
41) L8 1262{1}	0.000	0.000	0	0	N.D. d	N.D. d
42) L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43) L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44) L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45) L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262			0	0	N.D.	N.D.
Average 1262					0.000	0.000

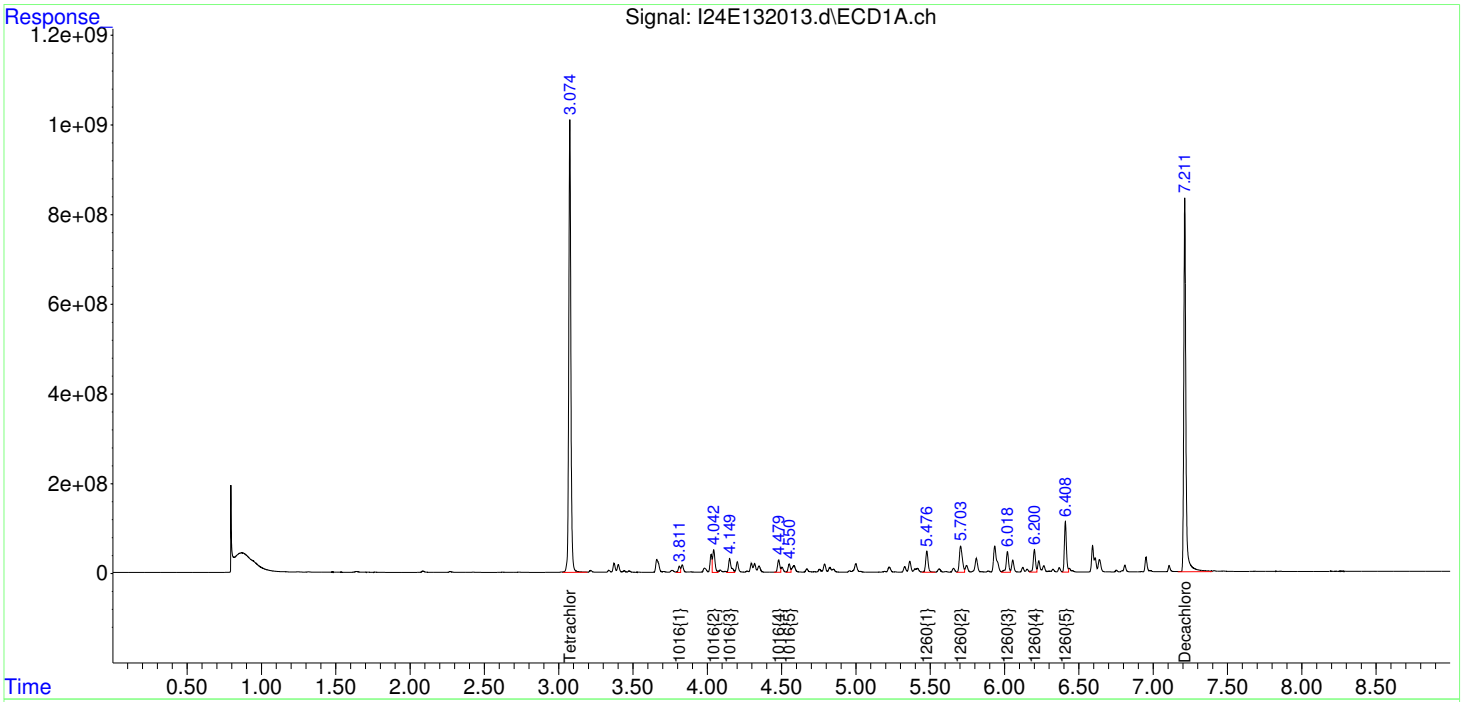
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

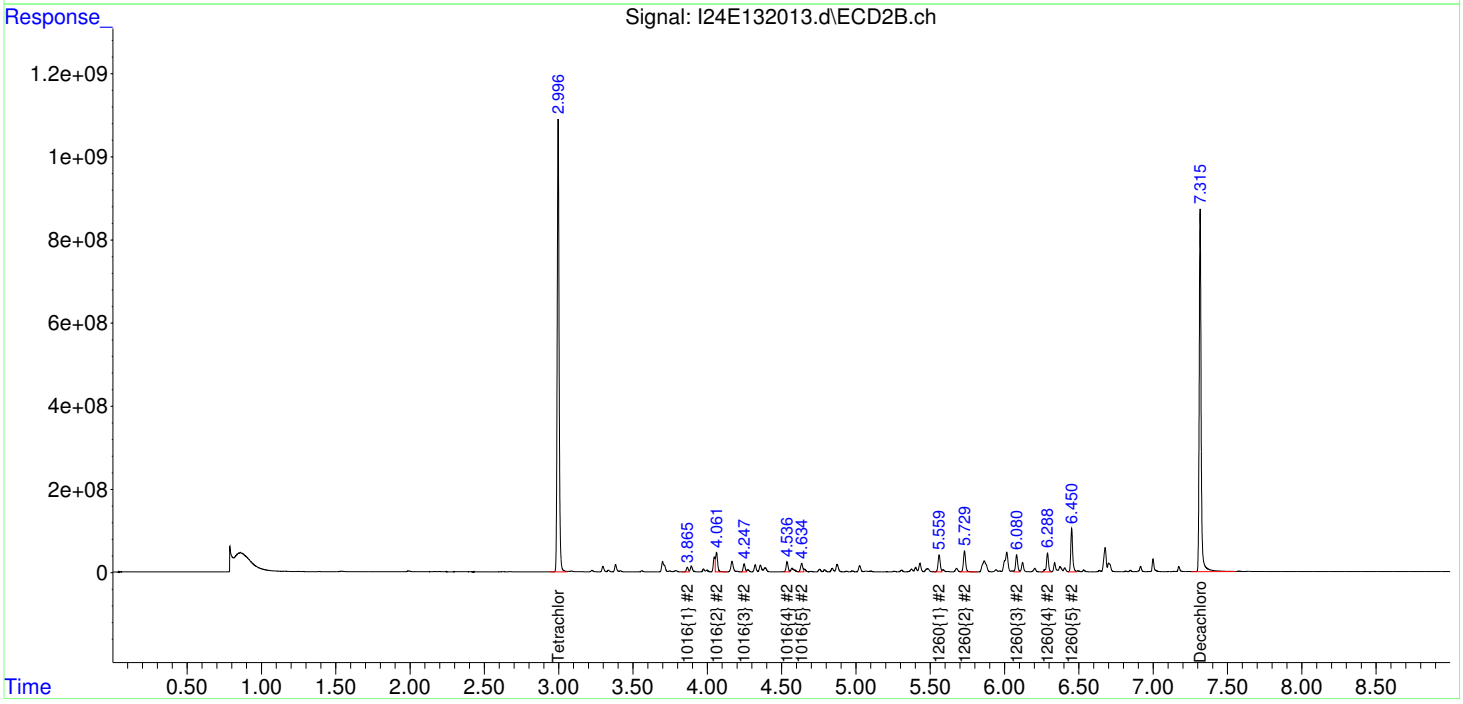
Data Path : C:\msdchem\1\data\051124\
Data File : I24E132013.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 May 2024 10:32 am
Operator : PJG
Sample : B374045-BSD1@ TBA Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 13 Sample Multiplier: 1

3616

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 11 14:55:25 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





1 - FORM I
ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374045-MS1	File ID:	I24E135040.d
Sampled:		Prepared:	05/10/24 15:04	Analyzed:	05/14/24 20:55
Solids:		Preparation:	SW-846 3546	Dilution:	
Initial/Final:	10.65 g / 10 mL				
Batch:	B374045	Sequence:	S104539	Calibration:	2400478
Instrument:	ECD 9				
Column:	1				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016	0.19	0.026	0.10	
11096-82-5	Aroclor-1260	0.19	0.022	0.10	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\051424\
Data File : I24E135040.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 8:55 pm
Operator : PJG
Sample : B374045-MS1@4X TBA Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 15 07:21:16 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
System Monitoring Compounds						
1) S Tetrachlo...	3.071	2.996	2708.6E6	2468.3E6	41.241	42.664
2) S Decachlor...	7.207	7.312	2224.6E6	2022.8E6	40.078	40.613
Target Compounds						
3) L1 1016{1}	3.808	3.865	35328829	27997277	37.195	36.996
4) L1 1016{2}	4.040	4.061	154.7E6	120.0E6	37.928	37.070
5) L1 1016{3}	4.147	4.247	109.4E6	47754859	37.066	36.612
6) L1 1016{4}	4.476	4.535	81949744	64422718	38.044	38.196
7) L1 1016{5}	4.546	4.634	53881894	59351473	37.405	37.481
Sum 1016			435.3E6	319.5E6	187.639	186.355
Average 1016					37.528	37.271
8) L7 1260{1}	5.472	5.558	154.8E6	118.7E6	36.931	34.388
9) L7 1260{2}	5.699	5.729	235.1E6	146.3E6	37.830	36.279
10) L7 1260{3}	6.014	6.080	151.5E6	109.0E6	37.991	36.061
11) L7 1260{4}	6.196	6.287	154.5E6	140.2E6	38.330	41.082
12) L7 1260{5}	6.404	6.449	306.9E6	250.2E6	36.320	34.700
Sum 1260			1002.8E6	764.4E6	187.402	182.510
Average 1260					37.480	36.502
13) L6 1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6 1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6 1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6 1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6 1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254			0	0	N.D.	N.D.
Average 1254					0.000	0.000
18) L5 1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5 1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5 1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5 1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5 1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248			0	0	N.D.	N.D.
Average 1248					0.000	0.000
23) L4 1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4 1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4 1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4 1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4 1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242			0	0	N.D.	N.D.
Average 1242					0.000	0.000
28) L3 1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3 1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3 1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3 1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\051424\
Data File : I24E135040.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 8:55 pm
Operator : PJG
Sample : B374045-MS1@4X TBA Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 40 Sample Multiplier: 1

3619

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 15 07:21:16 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40)	L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D. d	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

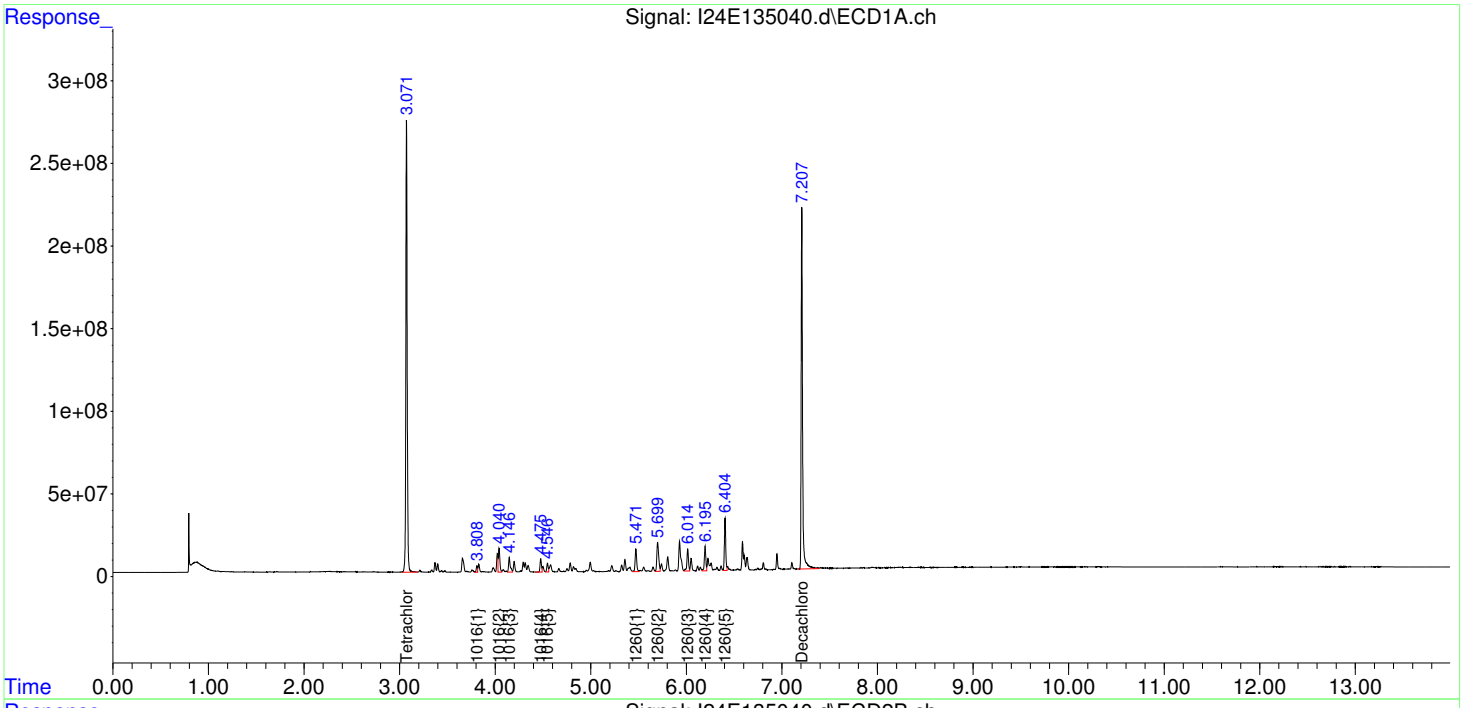
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

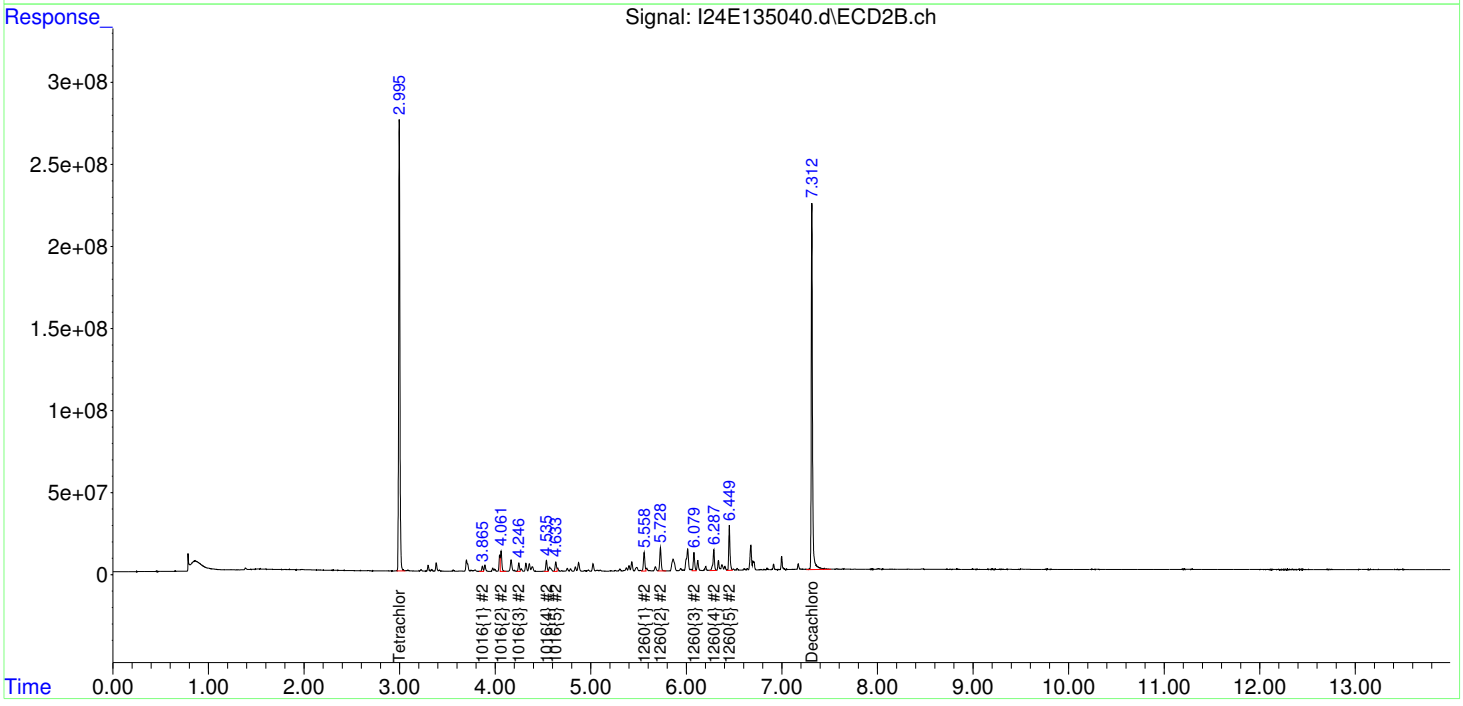
Data Path : C:\msdchem\1\data\051424\
Data File : I24E135040.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 8:55 pm
Operator : PJG
Sample : B374045-MS1@4X TBA Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 40 Sample Multiplier: 1

3620

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 15 07:21:16 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





1 - FORM I
ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374045-MS1	File ID:	I24E135040.d
Sampled:		Prepared:	05/10/24 15:04	Analyzed:	05/14/24 20:55
Solids:		Preparation:	SW-846 3546	Dilution:	
Initial/Final:	10.65 g / 10 mL				
Batch:	B374045	Sequence:	S104539	Calibration:	2400478
Instrument:	ECD 9				
Column:	2				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016 [2C]	0.19	0.026	0.10	
11096-82-5	Aroclor-1260 [2C]	0.19	0.027	0.10	

Quantitation Report (QT Reviewed)

3622

Data Path : C:\msdchem\1\data\051424\
Data File : I24E135040.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 8:55 pm
Operator : PJG
Sample : B374045-MS1@4X TBA Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 15 07:21:16 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	3.071	2.996	2708.6E6	2468.3E6	41.241	42.664
2) S	Decachlor...	7.207	7.312	2224.6E6	2022.8E6	40.078	40.613
	Target Compounds						
3) L1	1016{1}	3.808	3.865	35328829	27997277	37.195	36.996
4) L1	1016{2}	4.040	4.061	154.7E6	120.0E6	37.928	37.070
5) L1	1016{3}	4.147	4.247	109.4E6	47754859	37.066	36.612
6) L1	1016{4}	4.476	4.535	81949744	64422718	38.044	38.196
7) L1	1016{5}	4.546	4.634	53881894	59351473	37.405	37.481
Sum	1016			435.3E6	319.5E6	187.639	186.355
Average	1016					37.528	37.271
8) L7	1260{1}	5.472	5.558	154.8E6	118.7E6	36.931	34.388
9) L7	1260{2}	5.699	5.729	235.1E6	146.3E6	37.830	36.279
10) L7	1260{3}	6.014	6.080	151.5E6	109.0E6	37.991	36.061
11) L7	1260{4}	6.196	6.287	154.5E6	140.2E6	38.330	41.082
12) L7	1260{5}	6.404	6.449	306.9E6	250.2E6	36.320	34.700
Sum	1260			1002.8E6	764.4E6	187.402	182.510
Average	1260					37.480	36.502
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\051424\
Data File : I24E135040.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 8:55 pm
Operator : PJG
Sample : B374045-MS1@4X TBA Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 40 Sample Multiplier: 1

3623

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 15 07:21:16 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40)	L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D. d	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

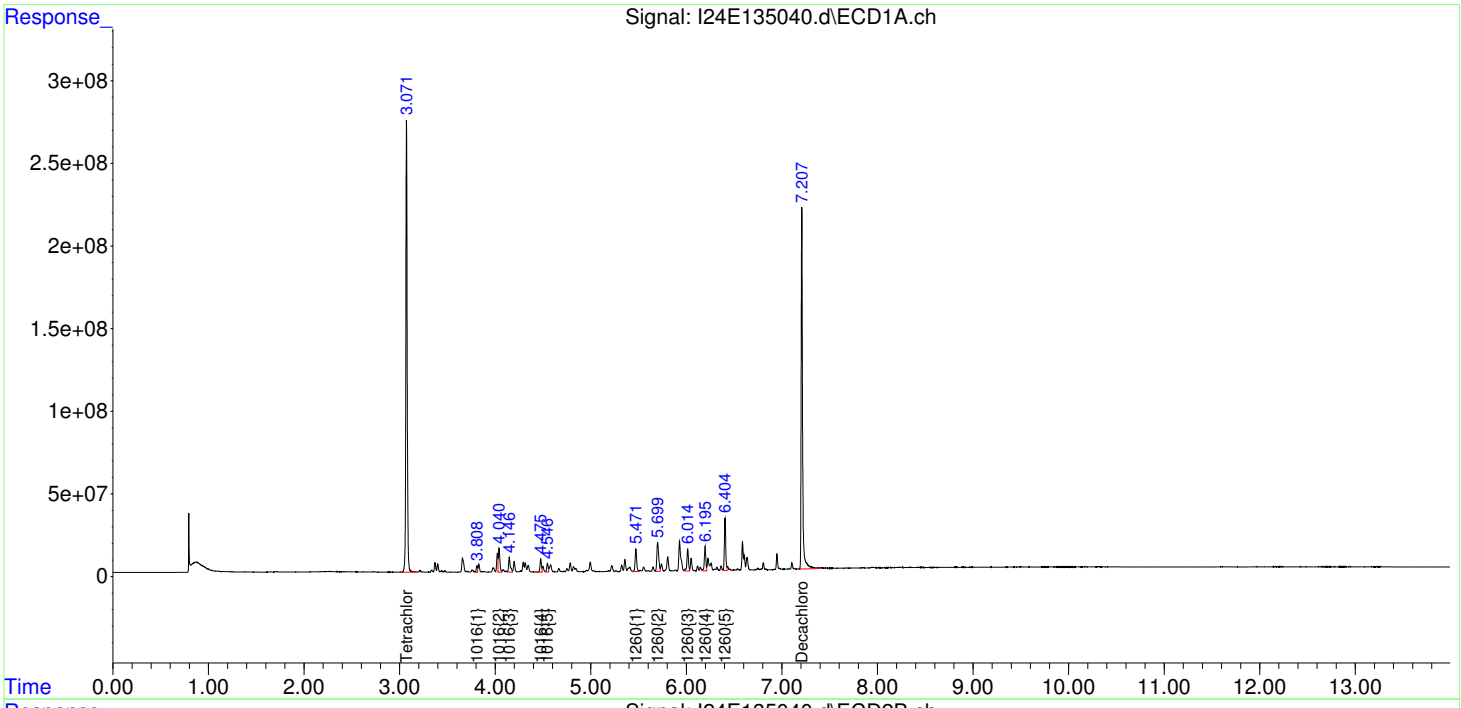
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

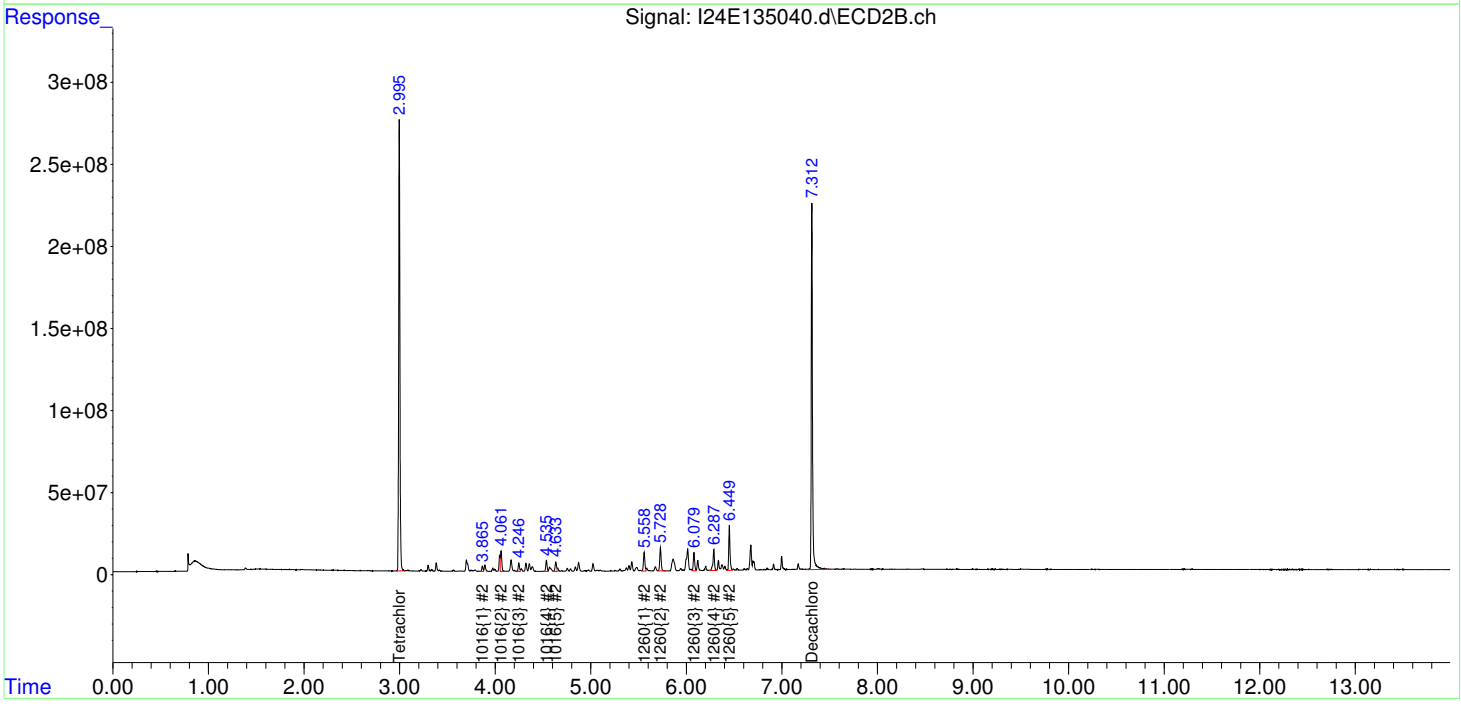
Data Path : C:\msdchem\1\data\051424\
Data File : I24E135040.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 8:55 pm
Operator : PJG
Sample : B374045-MS1@4X TBA Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 40 Sample Multiplier: 1

3624

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 15 07:21:16 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





1 - FORM I
ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374045-MSD1	File ID:	I24E135041.d
Sampled:		Prepared:	05/10/24 15:04	Analyzed:	05/14/24 21:12
Solids:		Preparation:	SW-846 3546	Dilution:	
Initial/Final:	10.66 g / 10 mL				
Batch:	B374045	Sequence:	S104539	Calibration:	2400478
Instrument:	ECD 9				
Column:	1				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016	0.21	0.026	0.10	
11096-82-5	Aroclor-1260	0.21	0.021	0.10	

Quantitation Report (QT Reviewed)

3626

Data Path : C:\msdchem\1\data\051424\
Data File : I24E135041.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 9:12 pm
Operator : PJG
Sample : B374045-MSD1@4X TBA Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 41 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 15 07:21:18 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	3.071	2.995	2890.9E6	2647.9E6	44.017	45.767
2) S	Decachlor...	7.207	7.312	2414.8E6	2186.2E6	43.504	43.894
	Target Compounds						
3) L1	1016{1}	3.808	3.865	37940773	29903654	39.945	39.515
4) L1	1016{2}	4.040	4.061	166.4E6	129.9E6	40.789	40.145
5) L1	1016{3}	4.146	4.247	118.4E6	51569302	40.109	39.537
6) L1	1016{4}	4.476	4.535	89193564	69645602	41.407	41.293
7) L1	1016{5}	4.547	4.634	58401835	64082044	40.543	40.468
Sum	1016			470.4E6	345.1E6	202.793	200.958
Average	1016					40.559	40.192
8) L7	1260{1}	5.472	5.558	168.5E6	129.0E6	40.192	37.384
9) L7	1260{2}	5.699	5.729	255.9E6	159.6E6	41.184	39.575
10) L7	1260{3}	6.015	6.079	163.4E6	117.7E6	40.976	38.929
11) L7	1260{4}	6.197	6.287	166.0E6	138.8E6	41.190	40.677
12) L7	1260{5}	6.405	6.449	338.3E6	272.7E6	40.038	37.828
Sum	1260			1092.1E6	817.9E6	203.580	194.394
Average	1260					40.716	38.879
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\051424\
Data File : I24E135041.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 9:12 pm
Operator : PJG
Sample : B374045-MSD1@4X TBA Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 41 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 15 07:21:18 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40)	L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D. d	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

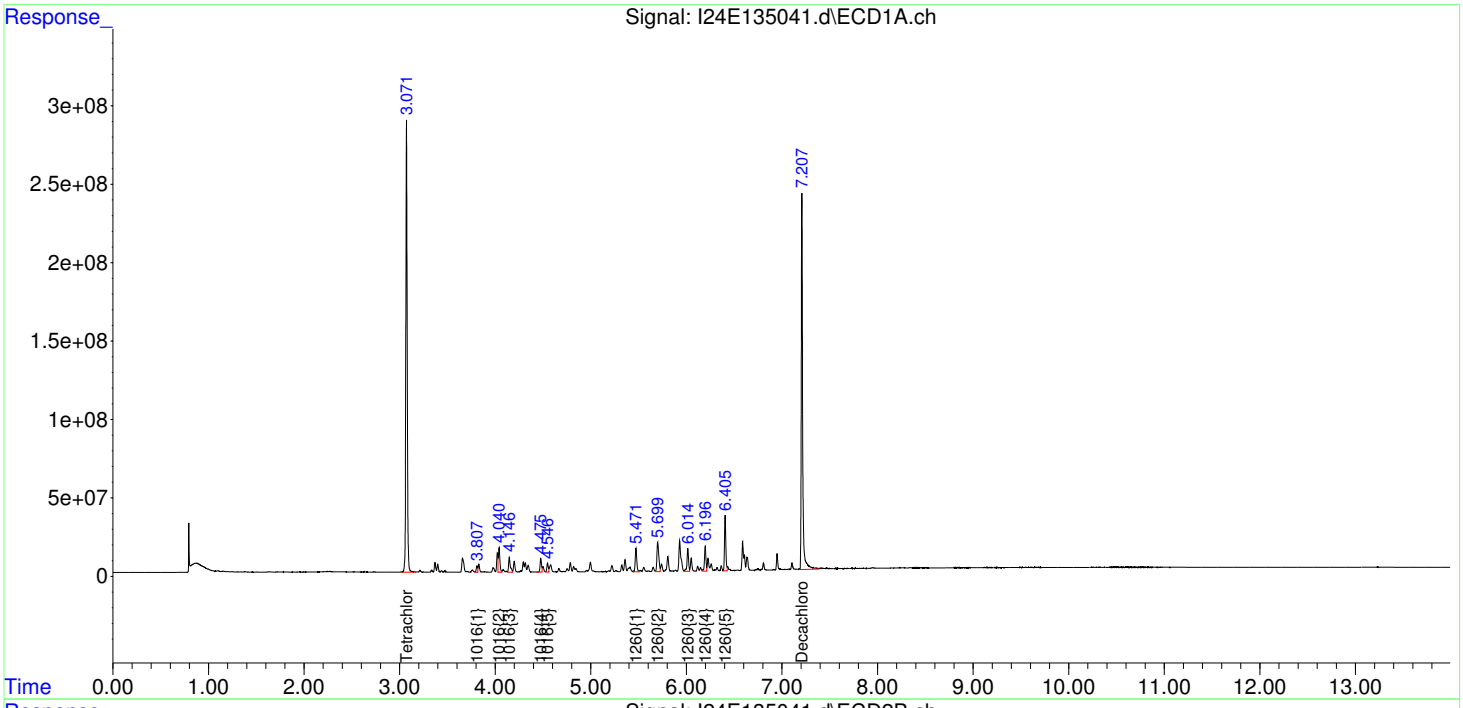
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

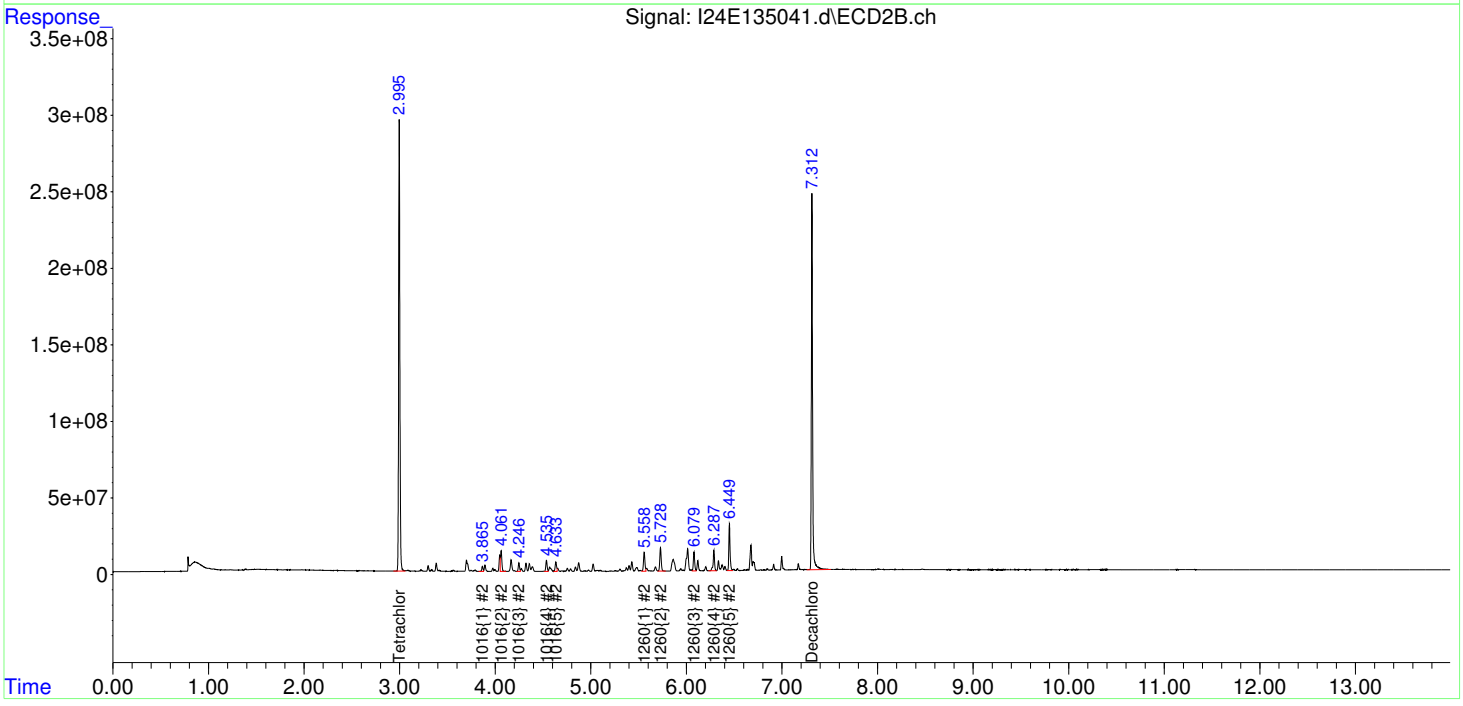
Data Path : C:\msdchem\1\data\051424\
Data File : I24E135041.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 9:12 pm
Operator : PJG
Sample : B374045-MSD1@4X TBA Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 41 Sample Multiplier: 1

3628

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 15 07:21:18 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





1 - FORM I
ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Remediation		Project:	Tivoli Memorial Park- CO 149634	
Matrix:	Soil	Laboratory ID:	B374045-MSD1	File ID:	I24E135041.d
Sampled:		Prepared:	05/10/24 15:04	Analyzed:	05/14/24 21:12
Solids:		Preparation:	SW-846 3546	Dilution:	
Initial/Final:	10.66 g / 10 mL				
Batch:	B374045	Sequence:	S104539	Calibration:	2400478
Instrument:	ECD 9				
Column:	2				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
12674-11-2	Aroclor-1016 [2C]	0.21	0.026	0.10	
11096-82-5	Aroclor-1260 [2C]	0.20	0.027	0.10	

Quantitation Report (QT Reviewed)

3630

Data Path : C:\msdchem\1\data\051424\
Data File : I24E135041.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 9:12 pm
Operator : PJG
Sample : B374045-MSD1@4X TBA Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 41 Sample Multiplier: 1

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 15 07:21:18 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
	System Monitoring Compounds						
1) S	Tetrachlo...	3.071	2.995	2890.9E6	2647.9E6	44.017	45.767
2) S	Decachlor...	7.207	7.312	2414.8E6	2186.2E6	43.504	43.894
	Target Compounds						
3) L1	1016{1}	3.808	3.865	37940773	29903654	39.945	39.515
4) L1	1016{2}	4.040	4.061	166.4E6	129.9E6	40.789	40.145
5) L1	1016{3}	4.146	4.247	118.4E6	51569302	40.109	39.537
6) L1	1016{4}	4.476	4.535	89193564	69645602	41.407	41.293
7) L1	1016{5}	4.547	4.634	58401835	64082044	40.543	40.468
Sum	1016			470.4E6	345.1E6	202.793	200.958
Average	1016					40.559	40.192
8) L7	1260{1}	5.472	5.558	168.5E6	129.0E6	40.192	37.384
9) L7	1260{2}	5.699	5.729	255.9E6	159.6E6	41.184	39.575
10) L7	1260{3}	6.015	6.079	163.4E6	117.7E6	40.976	38.929
11) L7	1260{4}	6.197	6.287	166.0E6	138.8E6	41.190	40.677
12) L7	1260{5}	6.405	6.449	338.3E6	272.7E6	40.038	37.828
Sum	1260			1092.1E6	817.9E6	203.580	194.394
Average	1260					40.716	38.879
13) L6	1254{1}	0.000	0.000	0	0	N.D. d	N.D. d
14) L6	1254{2}	0.000	0.000	0	0	N.D. d	N.D. d
15) L6	1254{3}	0.000	0.000	0	0	N.D. d	N.D. d
16) L6	1254{4}	0.000	0.000	0	0	N.D. d	N.D. d
17) L6	1254{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254			0	0	N.D.	N.D.
Average	1254					0.000	0.000
18) L5	1248{1}	0.000	0.000	0	0	N.D. d	N.D. d
19) L5	1248{2}	0.000	0.000	0	0	N.D. d	N.D. d
20) L5	1248{3}	0.000	0.000	0	0	N.D. d	N.D. d
21) L5	1248{4}	0.000	0.000	0	0	N.D. d	N.D. d
22) L5	1248{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248			0	0	N.D.	N.D.
Average	1248					0.000	0.000
23) L4	1242{1}	0.000	0.000	0	0	N.D. d	N.D. d
24) L4	1242{2}	0.000	0.000	0	0	N.D. d	N.D. d
25) L4	1242{3}	0.000	0.000	0	0	N.D. d	N.D. d
26) L4	1242{4}	0.000	0.000	0	0	N.D. d	N.D. d
27) L4	1242{5}	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242			0	0	N.D.	N.D.
Average	1242					0.000	0.000
28) L3	1232{1}	0.000	0.000	0	0	N.D. d	N.D. d
29) L3	1232{2}	0.000	0.000	0	0	N.D. d	N.D. d
30) L3	1232{3}	0.000	0.000	0	0	N.D. d	N.D. d
31) L3	1232{4}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : C:\msdchem\1\data\051424\
Data File : I24E135041.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 9:12 pm
Operator : PJG
Sample : B374045-MSD1@4X TBA Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 41 Sample Multiplier: 1

3631

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 15 07:21:18 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/479
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/L	ug/L
32)	L3 1232{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232			0	0	N.D.	N.D.
Average	1232					0.000	0.000
33)	L9 1268{1}	0.000	0.000	0	0	N.D. d	N.D. d
34)	L9 1268{2}	0.000	0.000	0	0	N.D. d	N.D. d
35)	L9 1268{3}	0.000	0.000	0	0	N.D. d	N.D. d
36)	L9 1268{4}	0.000	0.000	0	0	N.D. d	N.D. d
37)	L9 1268{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268			0	0	N.D.	N.D.
Average	1268					0.000	0.000
38)	L2 1221{1}	0.000	0.000	0	0	N.D. d	N.D. d
39)	L2 1221{2}	0.000	0.000	0	0	N.D. d	N.D. d
40)	L2 1221{3}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221			0	0	N.D.	N.D.
Average	1221					0.000	0.000
41)	L8 1262{1}	0.000	0.000	0	0	N.D. d	N.D. d
42)	L8 1262{2}	0.000	0.000	0	0	N.D. d	N.D. d
43)	L8 1262{3}	0.000	0.000	0	0	N.D. d	N.D. d
44)	L8 1262{4}	0.000	0.000	0	0	N.D. d	N.D. d
45)	L8 1262{5}	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262			0	0	N.D.	N.D.
Average	1262					0.000	0.000

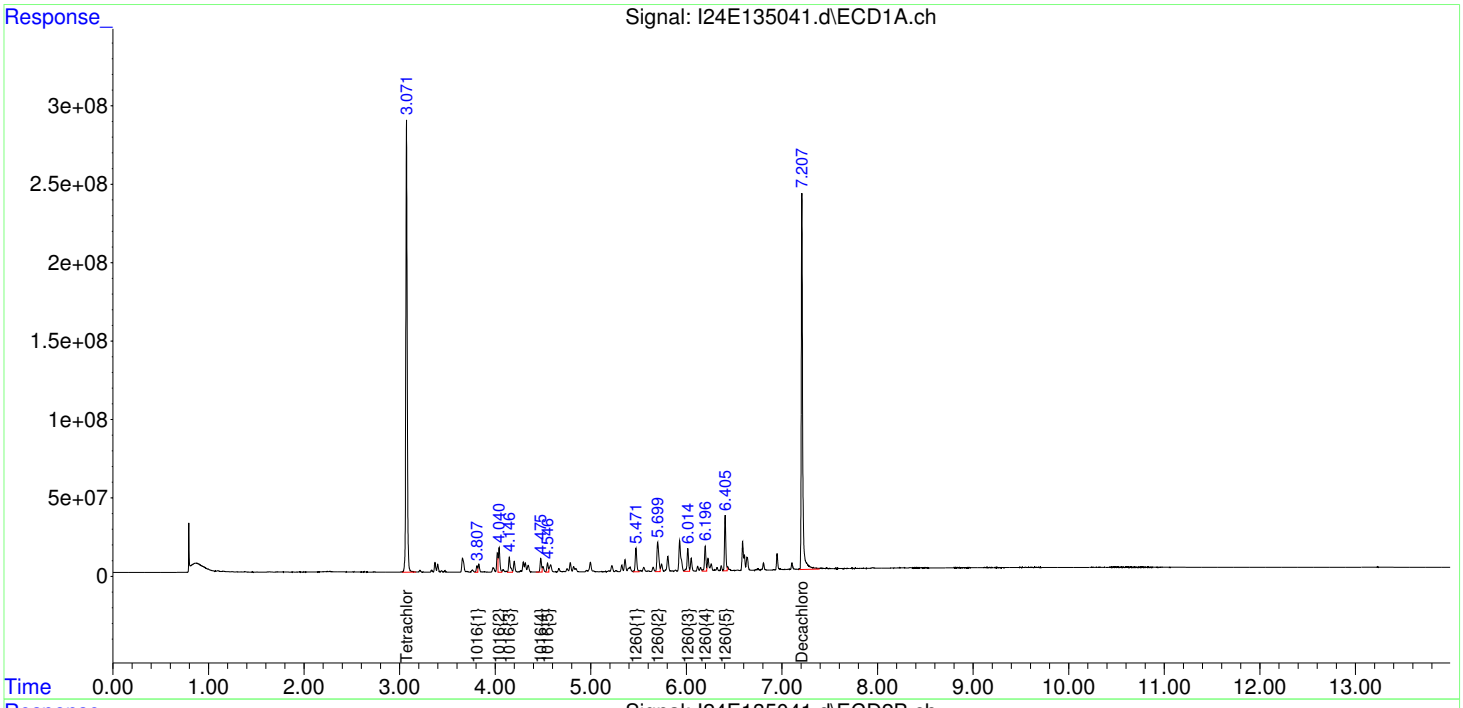
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

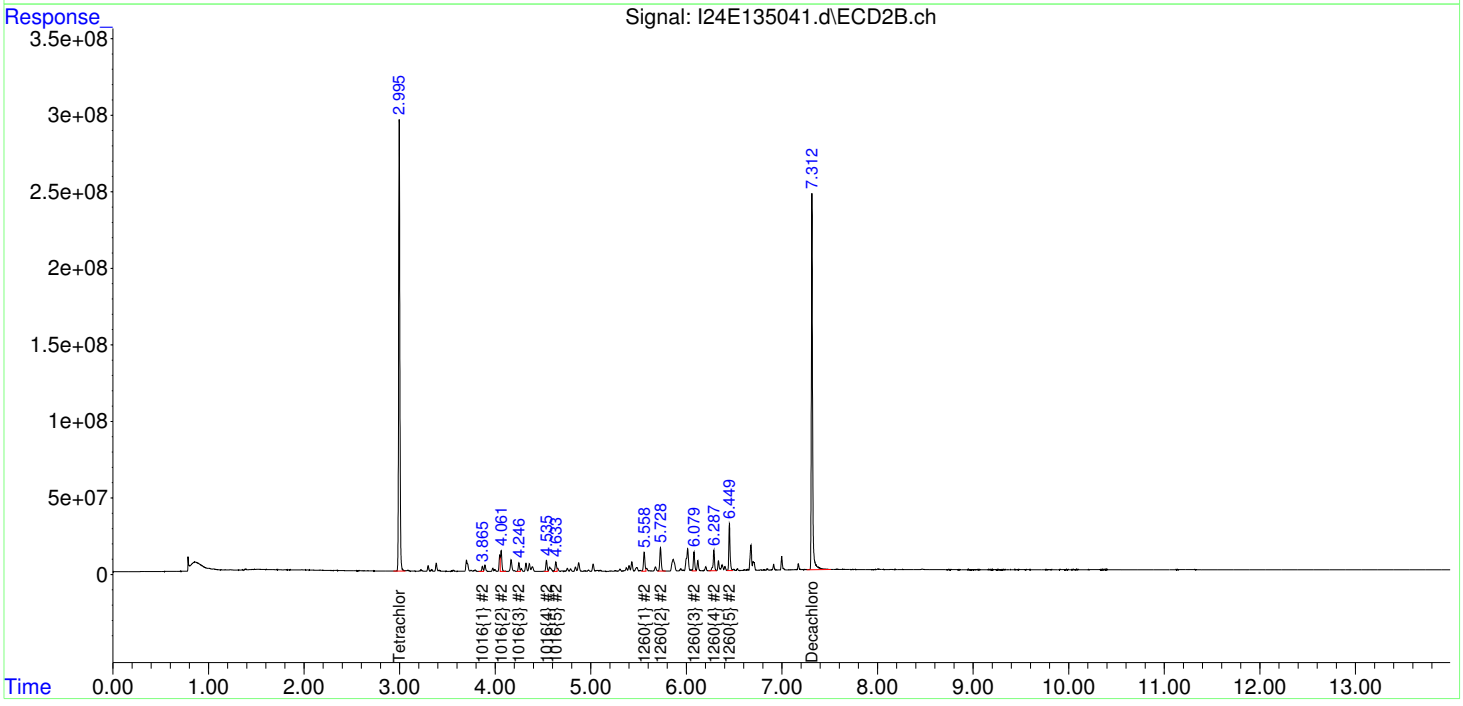
Data Path : C:\msdchem\1\data\051424\
Data File : I24E135041.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 May 2024 9:12 pm
Operator : PJG
Sample : B374045-MSD1@4X TBA Inst : ECD 9
Misc : mix[s,l1,l7]
ALS Vial : 41 Sample Multiplier: 1

3632

Integration File signal 1: PCB-F.E
Integration File signal 2: PCB-B.E
Quant Time: May 15 07:21:18 2024
Quant Method : C:\msdchem\1\methods\PCB Methods\9-PCB-042624C.M
Quant Title : 60/16-042624, 54-042624, 48-042624, 42-022724, 32/68-013124, 21/62-013124 2400478/47
QLast Update : Sun Apr 28 09:26:05 2024
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





PREPARATION BENCH SHEET

Printed: 5/10/2024 4:11:47PM

Analysis
8082
8082 DER TCL

B374045

Pace New England

Prepared using: SW-846 3546

Surrogate Solution
24E0077 Pest/PCB Surrogate - 2000 ug/L

Spiking Solution
24D0887 1260/1016 Soil Spike - 2000 ug/L

Matrix: Soil

Lab Number	Sample ID and Source Sample	Due Date	Expires	Concentrated	Add'l Notes	Initial (g)	Final (mL)	ul Spike	ul Surrogate	Extraction Comments	TAT
B374045-BLK1	Blank			SRK 5/10/24		10.04g	10mL		1000	shared w/b374053	
B374045-BS1	LCS			"		10.08g	"	1000	1000		
B374045-BSD1	LCS Dup			"		10.08g	"	1000	1000		
B374045-MS1	Matrix Spike [24E1437-06]			EGN 5/13/24		10.65g	10.0	1000	1000		
B374045-MSD1	Matrix Spike Dup [24E1437-06]			"		10.66g	"	1000	1000		
24E1153-01	Site #2 Login 30-3c	05/22/24	05/22/24	EGN 5/13/24		10.72g	10.0		1000	CAT B, shared w/b374053	12
24E1153-02	Site #6	05/22/24	05/22/24			10.66g			1000	CAT B, shared w/b374053	12
24E1153-03	Site #7	05/22/24	05/22/24			10.99g			1000	CAT B, shared w/b374053	12
24E1153-04	Site #8	05/22/24	05/22/24			10.58g			1000	CAT B, shared w/b374053	12
24E1437-02	CG-2 30-3d	05/24/24	05/22/24			10.70g			1000	CAT B, shared w/b374053	10
24E1437-04	B1A	05/24/24	05/22/24			10.71g			1000	CAT B, shared w/b374053	10
24E1437-06	SB1A		05/08/24			10.65g			1000	CAT B, ~~shared w/b374053~~ TMR 5/10/24	10
24E1437-06	SB1A	05/24/24	05/22/24						1000	CAT B, ~~shared w/b374053~~ TMR 5/10/24	10
24E1437-12	SB4A	05/24/24	05/22/24			10.44g			1000	CAT B, shared w/b374053	10
24E1437-17	SB7	05/24/24	05/22/24			10.51g			1000	CAT B, shared w/b374053	10
24E1437-19	DUP	05/24/24	05/22/24			10.18g			1000	CAT B, shared w/b374053	10
24E1447-04	Soil-1	05/15/24	05/23/24	SRK 5/10/24	wet	10.48g	10.0		1000		3
24E1447-05	Soil-2	05/15/24	05/23/24	"	"	10.86g	"		1000		3
24E1447-06	Soil-3	05/15/24	05/23/24	"	"	10.76g	"		1000		3

3633

SPK TMR SRK Wt

TMR 5/10/24
Spikedby/Witnessed By Date

TMR 5/10/24
Extracted By Date

PREPARATION BENCH SHEET

Printed: 5/10/2024 4:11:47PM

Analysis
8082
8082 DER TCL

B374045

Pace New England

Prepared using: SW-846 3546

Surrogate Solution
24E0077 Pest/PCB Surrogate - 2000 ug/L

Spiking Solution
24D0887 1260/1016 Soil Spike - 2000 ug/L

Matrix: Soil

Lab Number	Sample ID and Source Sample	Due Date	Expires	Concentrated	Add'l Notes	Initial (g)	Final (mL)	ul Spike	ul Surrogate	Extraction Comments	TAT
24E1455-02	SB-301 (205-206) 30-3c	05/21/24	05/22/24	EGN 5/13/24		10.78g	10.0		1000	CAT B REPORT TO MDL	7
24E1455-07	DUP-03	05/21/24	05/22/24		wet Sand	10.42g			1000	CAT B REPORT TO MDL	7
24E1455-10	SB-302 (14-15)	05/21/24	05/23/24		wet Sand	10.16g			1000	CAT B REPORT TO MDL	7
24E1455-16	SB-302 (73-74)	05/21/24	05/23/24		wet Sand	10.88g			1000	CAT B REPORT TO MDL	7
24E1455-19	SB-302 (108-109)	05/21/24	05/23/24			10.39g			1000	CAT B REPORT TO MDL	7
24E1455-23	SB-302 (145-146)	05/21/24	05/23/24		wet Sand	10.71g			1000	CAT B REPORT TO MDL	7

Start Date/Time _____

StopDate/Time _____

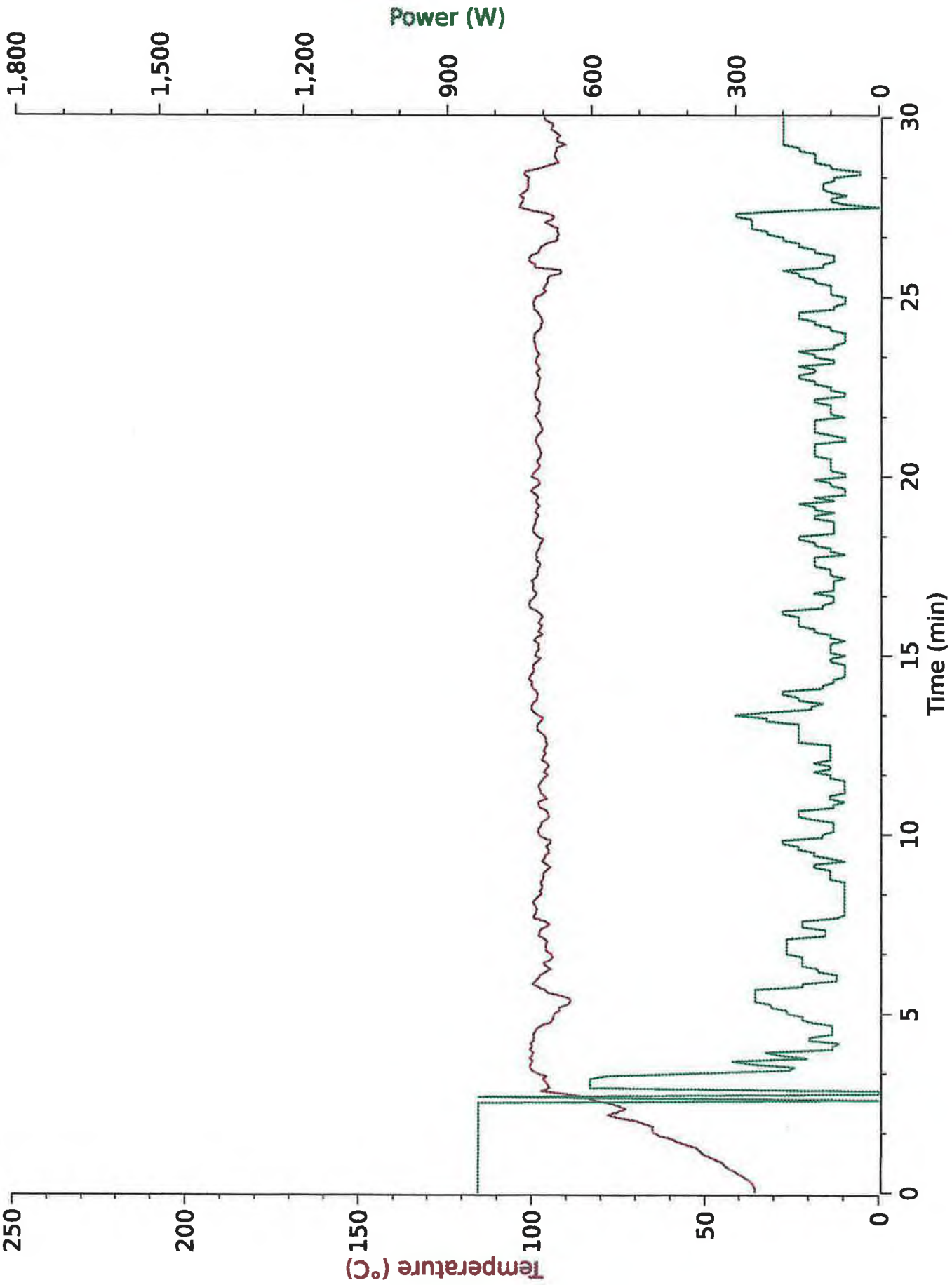
Standard ID#	Description
24E0170	Acetone
24E0174	Hexanes 95%
24E0241	Sodium Sulfate (Baked)
24E0245	Filter Paper (Fisher) 15.0cm

13-EXT-029

3634

Spikedby/Witnessed By _____ Date _____

Extracted By _____ Date _____


Power (W)
1,800
1,500
1,200
900
600
300
0
Temperature (°C)
250
200
150
100
50
0
0
5
10
15
20
25
30
Time (min)

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Date	Filename	Lab ID	Sample Info
11 May 2024 7:57 am	I24E132001.d	ISO	
11 May 2024 8:09 am	I24E132002.d	ISO	
11 May 2024 8:21 am	I24E132003.d	ISO	
11 May 2024 8:33 am	I24E132004.d	1260/1016 100 24D0721	mix[s,l1,l7]
11 May 2024 8:45 am	I24E132005.d	1254 100 23L0189	mix[l6]
11 May 2024 8:56 am	I24E132006.d	1248 100 24B0832	mix[l5]
11 May 2024 9:08 am	I24E132007.d	1242 100 24B0852	mix[l4]
11 May 2024 9:20 am	I24E132008.d	1232/1268 100 24C0355	mix[l3,l9]
11 May 2024 9:32 am	I24E132009.d	1221/1262 100 23L0791	mix[l2,l8]
11 May 2024 9:56 am	I24E132010.d	ISO	
11 May 2024 10:08 am	I24E132011.d	B374045-BLK1@ TBA	
11 May 2024 10:20 am	I24E132012.d	B374045-BS1@ TBA	mix[s,l1,l7]
11 May 2024 10:32 am	I24E132013.d	B374045-BSD1@ TBA	mix[s,l1,l7]
11 May 2024 10:44 am	I24E132014.d	24E1447-04@4X TBA	
11 May 2024 11:01 am	I24E132015.d	24E1447-05@4X TBA	
11 May 2024 11:18 am	I24E132016.d	24E1447-06@4X TBA	
11 May 2024 11:34 am	I24E132017.d	ISO	
11 May 2024 11:51 am	I24E132018.d	ISO	
11 May 2024 12:08 pm	I24E132019.d	1260/1016 100	mix[s,l1,l7]
11 May 2024 12:36 pm	I24E132020.d	ISO	
11 May 2024 12:53 pm	I24E132021.d	B373699-BLK1@TBA	
11 May 2024 1:05 pm	I24E132022.d	B373699-BS1@TBA	mix[s,l1,l7]
11 May 2024 1:17 pm	I24E132023.d	B373699-BSD1@TBA	mix[s,l1,l7]
11 May 2024 1:28 pm	I24E132024.d	24E0988-01@4X TBA	
11 May 2024 1:45 pm	I24E132025.d	B373699-MS1@4X TBA	mix[s,l1,l7]
11 May 2024 2:02 pm	I24E132026.d	B373699-MSD1@4X TBA	mix[s,l1,l7]
11 May 2024 2:19 pm	I24E132027.d	ISO	
11 May 2024 2:36 pm	I24E132028.d	ISO	
11 May 2024 2:53 pm	I24E132029.d	1260/1016 100	mix[s,l1,l7]
11 May 2024 3:05 pm	I24E132030.d	B373696-BLK1@TBA	
11 May 2024 3:17 pm	I24E132031.d	B373696-BS1@TBA	mix[s,l1,l7]
11 May 2024 3:28 pm	I24E132032.d	B373696-BSD1@TBA	mix[s,l1,l7]
11 May 2024 3:40 pm	I24E132033.d	24E0903-01@TBA	
11 May 2024 3:57 pm	I24E132034.d	24E0903-02@TBA	
11 May 2024 4:14 pm	I24E132035.d	24E0903-03@TBA	
11 May 2024 4:31 pm	I24E132036.d	24E0903-04@TBA	
11 May 2024 4:48 pm	I24E132037.d	ISO	
11 May 2024 5:05 pm	I24E132038.d	ISO	
11 May 2024 5:22 pm	I24E132039.d	ISO	
11 May 2024 5:38 pm	I24E132040.d	1260/1016 100	mix[s,l1,l7]
11 May 2024 5:50 pm	I24E132041.d	1254 100	mix[l6]
11 May 2024 6:02 pm	I24E132042.d	1248 100	mix[l5]
11 May 2024 6:14 pm	I24E132043.d	1242 100	mix[l4]
11 May 2024 6:26 pm	I24E132044.d	1232/1268 100	mix[l3,l9]
11 May 2024 6:37 pm	I24E132045.d	1221/1262 100	mix[l2,l8]

C:\msdchem\1\data\051424\

Date	Filename	Lab ID	Sample Info
14 May 2024 7:58 am	I24E135001.d	ISO	
14 May 2024 8:10 am	I24E135002.d	ISO	
14 May 2024 8:22 am	I24E135003.d	ISO	
14 May 2024 8:34 am	I24E135004.d	1260/1016 100 24D0721	mix[s,l1,l7]
14 May 2024 8:46 am	I24E135005.d	1254 100 23L0189	mix[l6]
14 May 2024 8:57 am	I24E135006.d	1248 100 24B0832	mix[l5]
14 May 2024 9:09 am	I24E135007.d	1242 100 24B0852	mix[l4]
14 May 2024 9:21 am	I24E135008.d	1232/1268 100 24C0355	mix[l3,l9]
14 May 2024 9:33 am	I24E135009.d	1221/1262 100 23L0791	mix[l2,l8]
14 May 2024 11:45 am	I24E135010.d	ISO	
14 May 2024 11:57 am	I24E135011.d	B374107-BLK1@ TBA	
14 May 2024 12:09 pm	I24E135012.d	B374107-BS1@ TBA	mix[s,l1,l7]
14 May 2024 12:20 pm	I24E135013.d	B374107-BSD1@ TBA	mix[s,l1,l7]
14 May 2024 12:32 pm	I24E135014.d	24E1625-01@4X TBA	
14 May 2024 2:13 pm	I24E135015.d	24E1606-01@ 4X EF TBA	
14 May 2024 2:30 pm	I24E135016.d	24E1592-01@4X EF TBA	
14 May 2024 2:47 pm	I24E135017.d	24E1592-02@4X TBA	
14 May 2024 3:03 pm	I24E135018.d	24E1592-03@4X TBA	
14 May 2024 3:20 pm	I24E135019.d	24E1592-04@4X TBA	
14 May 2024 3:37 pm	I24E135020.d	24E1592-05@4X TBA	
14 May 2024 3:54 pm	I24E135021.d	B374107-BLK1@ TBA EF	
14 May 2024 4:06 pm	I24E135022.d	B374107-BS@ TBA EF	mix[s,l1,l7]
14 May 2024 4:18 pm	I24E135023.d	B374107-BSD1@ TBA EF	mix[s,l1,l7]
14 May 2024 4:30 pm	I24E135024.d	B374107-MS1@4X TBA EF	mix[s,l1,l7]
14 May 2024 4:46 pm	I24E135025.d	B374107-MSD1@4X TBA EF	mix[s,l1,l7]
14 May 2024 5:03 pm	I24E135026.d	ISO	
14 May 2024 5:20 pm	I24E135027.d	ISO	
14 May 2024 5:37 pm	I24E135028.d	ISO	
14 May 2024 5:54 pm	I24E135029.d	1260/1016 100	mix[s,l1,l7]
14 May 2024 6:06 pm	I24E135030.d	24E1153-01@4X TBA	
14 May 2024 6:23 pm	I24E135031.d	24E1153-02@4X TBA	
14 May 2024 6:40 pm	I24E135032.d	24E1153-03@4X TBA	
14 May 2024 6:57 pm	I24E135033.d	24E1153-04@4X TBA	
14 May 2024 7:13 pm	I24E135034.d	24E1437-02@4X TBA	
14 May 2024 7:30 pm	I24E135035.d	24E1437-04@4X TBA	
14 May 2024 7:47 pm	I24E135036.d	24E1437-06@4X TBA	
14 May 2024 8:04 pm	I24E135037.d	24E1437-12@4X TBA	
14 May 2024 8:21 pm	I24E135038.d	24E1437-17@4X TBA	
14 May 2024 8:38 pm	I24E135039.d	24E1437-19@4X TBA	
14 May 2024 8:55 pm	I24E135040.d	B374045-MS1@4X TBA	mix[s,l1,l7]
14 May 2024 9:12 pm	I24E135041.d	B374045-MSD1@4X TBA	mix[s,l1,l7]
14 May 2024 9:28 pm	I24E135042.d	ISO	
14 May 2024 9:45 pm	I24E135043.d	ISO	
14 May 2024 10:02 pm	I24E135044.d	ISO	
14 May 2024 10:19 pm	I24E135045.d	1260/1016 100	mix[s,l1,l7]
14 May 2024 10:31 pm	I24E135046.d	1254 100	mix[l6]
14 May 2024 10:43 pm	I24E135047.d	1248 100	mix[l5]
14 May 2024 10:55 pm	I24E135048.d	1242 100	mix[l4]
14 May 2024 11:06 pm	I24E135049.d	1232/1268 100	mix[l3,l9]
14 May 2024 11:18 pm	I24E135050.d	1221/1262 100	mix[l2,l8]
14 May 2024 11:30 pm	I24E135051.d	24E1455-02@4X TBA	
14 May 2024 11:47 pm	I24E135052.d	24E1455-07@4X TBA	
15 May 2024 12:04 am	I24E135053.d	24E1455-10@4X TBA	
15 May 2024 12:21 am	I24E135054.d	24E1455-16@4X TBA	
15 May 2024 12:37 am	I24E135055.d	24E1455-19@4X TBA	
15 May 2024 12:54 am	I24E135056.d	24E1455-23@4X TBA	
15 May 2024 1:11 am	I24E135057.d	ISO	
15 May 2024 1:28 am	I24E135058.d	ISO	
15 May 2024 1:45 am	I24E135059.d	ISO	
15 May 2024 2:02 am	I24E135060.d	1260/1016 100	mix[s,l1,l7]
15 May 2024 7:00 am	I24E135061.d	ISO	
15 May 2024 7:17 am	I24E135062.d	24E1592-01@20X EF TBA	
15 May 2024 7:34 am	I24E135063.d	24E1592-02@40X TBA	
15 May 2024 7:51 am	I24E135064.d	24E1592-03@40X TBA	

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Date	Filename	Lab ID	Sample Info
15 May 2024 8:07 am	I24E135065.d	24E1592-04@40X TBA	
15 May 2024 8:24 am	I24E135066.d	24E1592-05@40X TBA	
15 May 2024 8:41 am	I24E135067.d	B374107-MS1@20X TBA	mix[s,l1,l7]
15 May 2024 8:58 am	I24E135068.d	B374107-MSD1@20X TBA	mix[s,l1,l7]
15 May 2024 9:15 am	I24E135069.d	ISO	
15 May 2024 9:32 am	I24E135070.d	ISO	
15 May 2024 9:44 am	I24E135071.d	1260/1016 100	mix[s,l1,l7]

8 - FORM VIII

Laboratory: DRAFT REPORT SDG: 24E1437

Client: NYS Division of Environmental Remediation Project: Tivoli Memorial Park- CO 149634

Calibration: 2400478 Instrument: ECD 9

				Column 1		Column 2	
EPA SAMPLE NO.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	TCX 1 RT #	DCB 1 RT #	TCX 2 RT #	DCB 2 RT #
S104387-CCV1	I24E132004.d	05/11/2024	0833	3.07	7.21	3.00	7.32
S104387-CCV2	I24E132005.d	05/11/2024	0845				
S104387-CCV3	I24E132006.d	05/11/2024	0856				
S104387-CCV4	I24E132007.d	05/11/2024	0908				
S104387-CCV5	I24E132008.d	05/11/2024	0920				
S104387-CCV6	I24E132009.d	05/11/2024	0932				
B374045-BLK1	I24E132011.d	05/11/2024	1008	3.07	7.21	3.00	7.32
B374045-BS1	I24E132012.d	05/11/2024	1020	3.08	7.21	3.00	7.32
B374045-BSD1	I24E132013.d	05/11/2024	1032	3.07	7.21	3.00	7.32
S104387-CCV7	I24E132019.d	05/11/2024	1208	3.07	7.21	3.00	7.31
S104387-CCV8	I24E132029.d	05/11/2024	1453	3.07	7.21	3.00	7.31
S104387-CCV9	I24E132040.d	05/11/2024	1738	3.07	7.21	3.00	7.32
S104387-CCVA	I24E132041.d	05/11/2024	1750				
S104387-CCVB	I24E132042.d	05/11/2024	1802				
S104387-CCVC	I24E132043.d	05/11/2024	1814				
S104387-CCVD	I24E132044.d	05/11/2024	1826				
S104387-CCVE	I24E132045.d	05/11/2024	1837				

RTs compared to opening CCV due to instrument maintenance

8 - FORM VIII

Laboratory: DRAFT REPORT SDG: 24E1437

Client: NYS Division of Environmental Remediation Project: Tivoli Memorial Park- CO 149634

Calibration: 2400478 Instrument: ECD 9

				Column 1		Column 2	
EPA SAMPLE NO.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	TCX 1 RT #	DCB 1 RT #	TCX 2 RT #	DCB 2 RT #
S104539-CCV1	I24E135004.d	05/14/2024	0834	3.07	7.21	3.00	7.31
S104539-CCV2	I24E135005.d	05/14/2024	0846				
S104539-CCV3	I24E135006.d	05/14/2024	0857				
S104539-CCV4	I24E135007.d	05/14/2024	0909				
S104539-CCV5	I24E135008.d	05/14/2024	0921				
S104539-CCV6	I24E135009.d	05/14/2024	0933				
S104539-CCV7	I24E135029.d	05/14/2024	1754	3.07	7.21	3.00	7.31
24E1437-02	I24E135034.d	05/14/2024	1913	3.07	7.21	3.00	7.31
24E1437-04	I24E135035.d	05/14/2024	1930	3.07	7.21	3.00	7.31
24E1437-06	I24E135036.d	05/14/2024	1947	3.07	7.21	3.00	7.31
24E1437-12	I24E135037.d	05/14/2024	2004	3.07	7.21	3.00	7.31
24E1437-17	I24E135038.d	05/14/2024	2021	3.07	7.21	3.00	7.31
24E1437-19	I24E135039.d	05/14/2024	2038	3.07	7.21	3.00	7.31
B374045-MS1	I24E135040.d	05/14/2024	2055	3.07	7.21	3.00	7.31
B374045-MSD1	I24E135041.d	05/14/2024	2112	3.07	7.21	3.00	7.31
S104539-CCV8	I24E135045.d	05/14/2024	2219	3.07	7.21	3.00	7.31
S104539-CCV9	I24E135046.d	05/14/2024	2231				
S104539-CCVA	I24E135047.d	05/14/2024	2243				
S104539-CCVB	I24E135048.d	05/14/2024	2255				
S104539-CCVC	I24E135049.d	05/14/2024	2306				
S104539-CCVD	I24E135050.d	05/14/2024	2318				
S104539-CCVE	I24E135060.d	05/15/2024	0202	3.07	7.21	3.00	7.31
S104539-CCVF	I24E135071.d	05/15/2024	0944	3.07	7.21	3.00	7.31

RTs compared to opening CCV due to instrument maintenance

ICP

SAMPLE DATA

1 - FORM I
ANALYSIS DATA SHEET

CG-1

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-01
Sampled:	05/08/24 10:15		
% Solids:	66.12		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
7429-90-5	Aluminum	11000	7.9	25	1		B374725	05/22/24 20:33	SW-846 6010D
7440-36-0	Antimony		0.67	2.5	1		B374725	05/27/24 17:30	SW-846 6010D
7440-38-2	Arsenic	4.7	0.71	5.0	1	J	B374725	05/22/24 20:33	SW-846 6010D
7440-39-3	Barium	96	0.54	2.5	1		B374725	05/22/24 20:33	SW-846 6010D
7440-41-7	Beryllium	0.47	0.077	0.25	1		B374725	05/22/24 20:33	SW-846 6010D
7440-43-9	Cadmium	0.49	0.24	0.50	1	J	B374725	05/22/24 20:33	SW-846 6010D
7440-70-2	Calcium	20000	13	25	1		B374725	05/22/24 20:33	SW-846 6010D
7440-47-3	Chromium	15	0.64	1.0	1		B374725	05/22/24 20:33	SW-846 6010D
7440-48-4	Cobalt	8.6	0.43	2.5	1		B374725	05/22/24 20:33	SW-846 6010D
7440-50-8	Copper	41	1.8	2.0	1		B374725	05/22/24 20:33	SW-846 6010D
7439-89-6	Iron	22000	120	250	10	MS-19	B374725	05/22/24 22:48	SW-846 6010D
7439-92-1	Lead	44	0.53	0.76	1		B374725	05/22/24 20:33	SW-846 6010D
7439-95-4	Magnesium	6100	5.9	25	1		B374725	05/22/24 20:33	SW-846 6010D
7439-96-5	Manganese	880	0.29	0.50	1		B374725	05/22/24 20:33	SW-846 6010D
7440-02-0	Nickel	19	0.70	1.0	1		B374725	05/22/24 20:33	SW-846 6010D
7440-09-7	Potassium	1700	620	2500	10	D, J	B374725	05/22/24 22:48	SW-846 6010D
7782-49-2	Selenium		1.3	5.0	1		B374725	05/22/24 20:33	SW-846 6010D
7440-22-4	Silver		0.31	0.50	1		B374725	05/22/24 20:33	SW-846 6010D
7440-23-5	Sodium		75	250	1		B374725	05/22/24 20:33	SW-846 6010D
7440-28-0	Thallium		0.80	2.5	1		B374725	05/27/24 17:30	SW-846 6010D
7440-62-2	Vanadium	17	0.56	1.0	1		B374725	05/22/24 20:33	SW-846 6010D
7440-66-6	Zinc	130	0.89	1.0	1		B374725	05/22/24 20:33	SW-846 6010D

1 - FORM I
ANALYSIS DATA SHEET
CG-2

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-02
Sampled:	05/08/24 10:40		
% Solids:	62.99		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
7429-90-5	Aluminum	9600	8.0	25	1		B374725	05/22/24 20:38	SW-846 6010D
7440-36-0	Antimony		0.68	2.5	1		B374725	05/27/24 17:37	SW-846 6010D
7440-38-2	Arsenic	3.9	0.71	5.1	1	J	B374725	05/22/24 20:38	SW-846 6010D
7440-39-3	Barium	80	0.54	2.5	1		B374725	05/22/24 20:38	SW-846 6010D
7440-41-7	Beryllium	0.43	0.077	0.25	1		B374725	05/22/24 20:38	SW-846 6010D
7440-43-9	Cadmium	0.42	0.24	0.51	1	J	B374725	05/22/24 20:38	SW-846 6010D
7440-70-2	Calcium	17000	13	25	1		B374725	05/22/24 20:38	SW-846 6010D
7440-47-3	Chromium	14	0.64	1.0	1		B374725	05/22/24 20:38	SW-846 6010D
7440-48-4	Cobalt	7.4	0.43	2.5	1		B374725	05/22/24 20:38	SW-846 6010D
7440-50-8	Copper	36	1.8	2.0	1		B374725	05/22/24 20:38	SW-846 6010D
7439-89-6	Iron	21000	120	250	10		B374725	05/22/24 22:53	SW-846 6010D
7439-92-1	Lead	36	0.53	0.76	1		B374725	05/22/24 20:38	SW-846 6010D
7439-95-4	Magnesium	7200	5.9	25	1		B374725	05/22/24 20:38	SW-846 6010D
7439-96-5	Manganese	630	0.29	0.51	1		B374725	05/22/24 20:38	SW-846 6010D
7440-02-0	Nickel	17	0.70	1.0	1		B374725	05/22/24 20:38	SW-846 6010D
7440-09-7	Potassium	1800	630	2500	10	D, J	B374725	05/22/24 22:53	SW-846 6010D
7782-49-2	Selenium		1.3	5.1	1		B374725	05/22/24 20:38	SW-846 6010D
7440-22-4	Silver		0.31	0.51	1		B374725	05/22/24 20:38	SW-846 6010D
7440-23-5	Sodium		75	250	1		B374725	05/22/24 20:38	SW-846 6010D
7440-28-0	Thallium		0.81	2.5	1		B374725	05/27/24 17:37	SW-846 6010D
7440-62-2	Vanadium	16	0.56	1.0	1		B374725	05/22/24 20:38	SW-846 6010D
7440-66-6	Zinc	98	0.89	1.0	1		B374725	05/22/24 20:38	SW-846 6010D

1 - FORM I
ANALYSIS DATA SHEET

B1

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-03
Sampled:	05/08/24 13:24		
% Solids:	58.29		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
7429-90-5	Aluminum	15000	8.8	28	1		B374725	05/22/24 20:42	SW-846 6010D
7440-36-0	Antimony		0.74	2.8	1		B374725	05/27/24 17:44	SW-846 6010D
7440-38-2	Arsenic	6.9	0.79	5.6	1		B374725	05/22/24 20:42	SW-846 6010D
7440-39-3	Barium	110	0.59	2.8	1		B374725	05/22/24 20:42	SW-846 6010D
7440-41-7	Beryllium	0.73	0.085	0.28	1		B374725	05/22/24 20:42	SW-846 6010D
7440-43-9	Cadmium	0.47	0.26	0.56	1	J	B374725	05/22/24 20:42	SW-846 6010D
7440-70-2	Calcium	6700	14	28	1		B374725	05/22/24 20:42	SW-846 6010D
7440-47-3	Chromium	19	0.71	1.1	1		B374725	05/22/24 20:42	SW-846 6010D
7440-48-4	Cobalt	10	0.47	2.8	1		B374725	05/22/24 20:42	SW-846 6010D
7440-50-8	Copper	38	2.0	2.2	1		B374725	05/22/24 20:42	SW-846 6010D
7439-89-6	Iron	30000	130	280	10		B374725	05/22/24 22:59	SW-846 6010D
7439-92-1	Lead	150	0.59	0.84	1		B374725	05/22/24 20:42	SW-846 6010D
7439-95-4	Magnesium	5300	6.5	28	1		B374725	05/22/24 20:42	SW-846 6010D
7439-96-5	Manganese	640	0.32	0.56	1		B374725	05/22/24 20:42	SW-846 6010D
7440-02-0	Nickel	24	0.77	1.1	1		B374725	05/22/24 20:42	SW-846 6010D
7440-09-7	Potassium	1400	690	2800	10	D, J	B374725	05/22/24 22:59	SW-846 6010D
7782-49-2	Selenium		1.4	5.6	1		B374725	05/22/24 20:42	SW-846 6010D
7440-22-4	Silver		0.34	0.56	1		B374725	05/22/24 20:42	SW-846 6010D
7440-23-5	Sodium		83	280	1		B374725	05/22/24 20:42	SW-846 6010D
7440-28-0	Thallium		0.89	2.8	1		B374725	05/27/24 17:44	SW-846 6010D
7440-62-2	Vanadium	31	0.62	1.1	1		B374725	05/22/24 20:42	SW-846 6010D
7440-66-6	Zinc	160	0.98	1.1	1		B374725	05/22/24 20:42	SW-846 6010D

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B1A

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-04
Sampled:	05/08/24 13:27		
% Solids:	85.55		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
7429-90-5	Aluminum	9500	59	190	10		B374725	05/22/24 23:04	SW-846 6010D
7440-36-0	Antimony		0.50	1.9	1		B374725	05/27/24 17:51	SW-846 6010D
7440-38-2	Arsenic	5.2	0.53	3.8	1		B374725	05/22/24 20:47	SW-846 6010D
7440-39-3	Barium	69	4.0	19	10		B374725	05/22/24 23:04	SW-846 6010D
7440-41-7	Beryllium	0.40	0.057	0.19	1		B374725	05/22/24 20:47	SW-846 6010D
7440-43-9	Cadmium	0.28	0.18	0.38	1	J	B374725	05/22/24 20:47	SW-846 6010D
7440-70-2	Calcium	41000	98	190	10		B374725	05/22/24 23:04	SW-846 6010D
7440-47-3	Chromium	10	0.48	0.75	1		B374725	05/22/24 20:47	SW-846 6010D
7440-48-4	Cobalt	6.6	0.32	1.9	1		B374725	05/22/24 20:47	SW-846 6010D
7440-50-8	Copper	20	1.3	1.5	1		B374725	05/22/24 20:47	SW-846 6010D
7439-89-6	Iron	20000	87	190	10		B374725	05/22/24 23:04	SW-846 6010D
7439-92-1	Lead	55	0.40	0.57	1		B374725	05/22/24 20:47	SW-846 6010D
7439-95-4	Magnesium	12000	44	190	10		B374725	05/22/24 23:04	SW-846 6010D
7439-96-5	Manganese	650	0.21	0.38	1		B374725	05/22/24 20:47	SW-846 6010D
7440-02-0	Nickel	15	0.52	0.75	1		B374725	05/22/24 20:47	SW-846 6010D
7440-09-7	Potassium	750	47	190	1		B374725	05/22/24 20:47	SW-846 6010D
7782-49-2	Selenium		0.93	3.8	1		B374725	05/22/24 20:47	SW-846 6010D
7440-22-4	Silver		0.23	0.38	1		B374725	05/22/24 20:47	SW-846 6010D
7440-23-5	Sodium		56	190	1		B374725	05/22/24 20:47	SW-846 6010D
7440-28-0	Thallium		0.60	1.9	1		B374725	05/27/24 17:51	SW-846 6010D
7440-62-2	Vanadium	23	0.42	0.75	1		B374725	05/22/24 20:47	SW-846 6010D
7440-66-6	Zinc	68	0.66	0.75	1		B374725	05/22/24 20:47	SW-846 6010D

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SB1

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-05
Sampled:	05/08/24 14:06		
% Solids:	68.35		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
7429-90-5	Aluminum	15000	7.6	24	1		B374725	05/22/24 20:51	SW-846 6010D
7440-36-0	Antimony		0.64	2.4	1		B374725	05/27/24 17:58	SW-846 6010D
7440-38-2	Arsenic	4.4	0.68	4.8	1	J	B374725	05/22/24 20:51	SW-846 6010D
7440-39-3	Barium	91	0.51	2.4	1		B374725	05/22/24 20:51	SW-846 6010D
7440-41-7	Beryllium	0.70	0.073	0.24	1		B374725	05/22/24 20:51	SW-846 6010D
7440-43-9	Cadmium	0.29	0.23	0.48	1	J	B374725	05/22/24 20:51	SW-846 6010D
7440-70-2	Calcium	4100	13	24	1		B374725	05/22/24 20:51	SW-846 6010D
7440-47-3	Chromium	18	0.61	0.97	1		B374725	05/22/24 20:51	SW-846 6010D
7440-48-4	Cobalt	11	0.41	2.4	1		B374725	05/22/24 20:51	SW-846 6010D
7440-50-8	Copper	37	1.7	1.9	1		B374725	05/22/24 20:51	SW-846 6010D
7439-89-6	Iron	30000	110	240	10		B374725	05/22/24 23:10	SW-846 6010D
7439-92-1	Lead	45	0.51	0.72	1		B374725	05/22/24 20:51	SW-846 6010D
7439-95-4	Magnesium	4200	5.6	24	1		B374725	05/22/24 20:51	SW-846 6010D
7439-96-5	Manganese	510	0.27	0.48	1		B374725	05/22/24 20:51	SW-846 6010D
7440-02-0	Nickel	26	0.67	0.97	1		B374725	05/22/24 20:51	SW-846 6010D
7440-09-7	Potassium	910	60	240	1		B374725	05/22/24 20:51	SW-846 6010D
7782-49-2	Selenium		1.2	4.8	1		B374725	05/22/24 20:51	SW-846 6010D
7440-22-4	Silver		0.30	0.48	1		B374725	05/22/24 20:51	SW-846 6010D
7440-23-5	Sodium		72	240	1		B374725	05/22/24 20:51	SW-846 6010D
7440-28-0	Thallium		0.77	2.4	1		B374725	05/27/24 17:58	SW-846 6010D
7440-62-2	Vanadium	22	0.53	0.97	1		B374725	05/22/24 20:51	SW-846 6010D
7440-66-6	Zinc	94	0.85	0.97	1		B374725	05/22/24 20:51	SW-846 6010D

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SB1A

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-06
Sampled:	05/08/24 14:19		
% Solids:	72.51		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
7429-90-5	Aluminum	16000	7.1	22	1	MS-19	B374725	05/22/24 20:26	SW-846 6010D
7440-36-0	Antimony		0.60	2.2	1	Z-01	B374725	05/27/24 18:18	SW-846 6010D
7440-38-2	Arsenic	5.4	0.63	4.5	1		B374725	05/22/24 20:26	SW-846 6010D
7440-39-3	Barium	91	0.48	2.2	1	MS-22	B374725	05/22/24 20:26	SW-846 6010D
7440-41-7	Beryllium	0.69	0.068	0.22	1		B374725	05/22/24 20:26	SW-846 6010D
7440-43-9	Cadmium	0.26	0.21	0.45	1	J	B374725	05/22/24 20:26	SW-846 6010D
7440-70-2	Calcium	5300	12	22	1	MS-19	B374725	05/22/24 20:26	SW-846 6010D
7440-47-3	Chromium	17	0.57	0.90	1		B374725	05/22/24 20:26	SW-846 6010D
7440-48-4	Cobalt	11	0.38	2.2	1		B374725	05/22/24 20:26	SW-846 6010D
7440-50-8	Copper	34	1.6	1.8	1		B374725	05/22/24 20:26	SW-846 6010D
7439-89-6	Iron	29000	100	220	10	MS-19	B374725	05/22/24 23:16	SW-846 6010D
7439-92-1	Lead	41	0.47	0.67	1		B374725	05/22/24 20:26	SW-846 6010D
7439-95-4	Magnesium	4200	5.2	22	1		B374725	05/22/24 20:26	SW-846 6010D
7439-96-5	Manganese	560	0.25	0.45	1	MS-19	B374725	05/22/24 20:26	SW-846 6010D
7440-02-0	Nickel	24	0.62	0.90	1		B374725	05/22/24 20:26	SW-846 6010D
7440-09-7	Potassium	890	55	220	1	MS-22	B374725	05/22/24 20:26	SW-846 6010D
7782-49-2	Selenium		1.1	4.5	1		B374725	05/22/24 20:26	SW-846 6010D
7440-22-4	Silver		0.28	0.45	1		B374725	05/22/24 20:26	SW-846 6010D
7440-23-5	Sodium		67	220	1	MS-22	B374725	05/22/24 20:26	SW-846 6010D
7440-28-0	Thallium		0.72	2.2	1		B374725	05/27/24 18:18	SW-846 6010D
7440-62-2	Vanadium	22	0.50	0.90	1		B374725	05/22/24 20:26	SW-846 6010D
7440-66-6	Zinc	88	0.79	0.90	1		B374725	05/22/24 20:26	SW-846 6010D

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SB2

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-07
Sampled:	05/08/24 14:34		
% Solids:	71.00		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
7429-90-5	Aluminum	16000	7.3	23	1		B374725	05/22/24 20:56	SW-846 6010D
7440-36-0	Antimony		0.62	2.3	1		B374725	05/27/24 18:25	SW-846 6010D
7440-38-2	Arsenic	5.5	0.65	4.6	1		B374725	05/22/24 20:56	SW-846 6010D
7440-39-3	Barium	160	0.49	2.3	1		B374725	05/22/24 20:56	SW-846 6010D
7440-41-7	Beryllium	1.1	0.070	0.23	1		B374725	05/22/24 20:56	SW-846 6010D
7440-43-9	Cadmium	0.30	0.22	0.46	1	J	B374725	05/22/24 20:56	SW-846 6010D
7440-70-2	Calcium	4200	12	23	1		B374725	05/22/24 20:56	SW-846 6010D
7440-47-3	Chromium	25	0.58	0.92	1		B374725	05/22/24 20:56	SW-846 6010D
7440-48-4	Cobalt	16	0.39	2.3	1		B374725	05/22/24 20:56	SW-846 6010D
7440-50-8	Copper	88	1.6	1.8	1		B374725	05/22/24 20:56	SW-846 6010D
7439-89-6	Iron	35000	110	230	10		B374725	05/22/24 23:21	SW-846 6010D
7439-92-1	Lead	200	0.49	0.69	1		B374725	05/22/24 20:56	SW-846 6010D
7439-95-4	Magnesium	5200	5.4	23	1		B374725	05/22/24 20:56	SW-846 6010D
7439-96-5	Manganese	740	0.26	0.46	1		B374725	05/22/24 20:56	SW-846 6010D
7440-02-0	Nickel	52	0.64	0.92	1		B374725	05/22/24 20:56	SW-846 6010D
7440-09-7	Potassium	1800	570	2300	10	D, J	B374725	05/22/24 23:21	SW-846 6010D
7782-49-2	Selenium		1.1	4.6	1		B374725	05/22/24 20:56	SW-846 6010D
7440-22-4	Silver		0.28	0.46	1		B374725	05/22/24 20:56	SW-846 6010D
7440-23-5	Sodium		69	230	1		B374725	05/22/24 20:56	SW-846 6010D
7440-28-0	Thallium		0.74	2.3	1		B374725	05/27/24 18:25	SW-846 6010D
7440-62-2	Vanadium	26	0.51	0.92	1		B374725	05/22/24 20:56	SW-846 6010D
7440-66-6	Zinc	210	0.81	0.92	1		B374725	05/22/24 20:56	SW-846 6010D

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SB2A

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-08
Sampled:	05/08/24 14:34		
% Solids:	80.76		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
7429-90-5	Aluminum	16000	6.5	21	1		B374725	05/22/24 21:15	SW-846 6010D
7440-36-0	Antimony		0.55	2.1	1		B374725	05/27/24 18:32	SW-846 6010D
7440-38-2	Arsenic	6.3	0.58	4.1	1		B374725	05/22/24 21:15	SW-846 6010D
7440-39-3	Barium	130	0.44	2.1	1		B374725	05/22/24 21:15	SW-846 6010D
7440-41-7	Beryllium	0.77	0.063	0.21	1		B374725	05/22/24 21:15	SW-846 6010D
7440-43-9	Cadmium	0.26	0.20	0.41	1	J	B374725	05/22/24 21:15	SW-846 6010D
7440-70-2	Calcium	9700	11	21	1		B374725	05/22/24 21:15	SW-846 6010D
7440-47-3	Chromium	20	0.52	0.82	1		B374725	05/22/24 21:15	SW-846 6010D
7440-48-4	Cobalt	14	0.35	2.1	1		B374725	05/22/24 21:15	SW-846 6010D
7440-50-8	Copper	180	1.5	1.6	1		B374725	05/22/24 21:15	SW-846 6010D
7439-89-6	Iron	34000	95	210	10		B374725	05/22/24 23:27	SW-846 6010D
7439-92-1	Lead	120	0.43	0.62	1		B374725	05/22/24 21:15	SW-846 6010D
7439-95-4	Magnesium	6000	4.8	21	1		B374725	05/22/24 21:15	SW-846 6010D
7439-96-5	Manganese	820	0.23	0.41	1		B374725	05/22/24 21:15	SW-846 6010D
7440-02-0	Nickel	57	0.57	0.82	1		B374725	05/22/24 21:15	SW-846 6010D
7440-09-7	Potassium	1600	510	2100	10	D, J	B374725	05/22/24 23:27	SW-846 6010D
7782-49-2	Selenium		1.0	4.1	1		B374725	05/22/24 21:15	SW-846 6010D
7440-22-4	Silver		0.25	0.41	1		B374725	05/22/24 21:15	SW-846 6010D
7440-23-5	Sodium	67	61	210	1	J	B374725	05/22/24 21:15	SW-846 6010D
7440-28-0	Thallium		0.66	2.1	1		B374725	05/27/24 18:32	SW-846 6010D
7440-62-2	Vanadium	24	0.45	0.82	1		B374725	05/22/24 21:15	SW-846 6010D
7440-66-6	Zinc	130	0.72	0.82	1		B374725	05/22/24 21:15	SW-846 6010D

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SB3

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-09
Sampled:	05/08/24 14:42		
% Solids:	85.00		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
7429-90-5	Aluminum	15000	6.0	19	1		B374725	05/22/24 21:21	SW-846 6010D
7440-36-0	Antimony		0.51	1.9	1		B374725	05/27/24 18:39	SW-846 6010D
7440-38-2	Arsenic	6.1	0.53	3.8	1		B374725	05/22/24 21:21	SW-846 6010D
7440-39-3	Barium	100	0.40	1.9	1		B374725	05/22/24 21:21	SW-846 6010D
7440-41-7	Beryllium	0.65	0.058	0.19	1		B374725	05/22/24 21:21	SW-846 6010D
7440-43-9	Cadmium	0.32	0.18	0.38	1	J	B374725	05/22/24 21:21	SW-846 6010D
7440-70-2	Calcium	11000	9.8	19	1		B374725	05/22/24 21:21	SW-846 6010D
7440-47-3	Chromium	18	0.48	0.76	1		B374725	05/22/24 21:21	SW-846 6010D
7440-48-4	Cobalt	12	0.32	1.9	1		B374725	05/22/24 21:21	SW-846 6010D
7440-50-8	Copper	40	1.3	1.5	1		B374725	05/22/24 21:21	SW-846 6010D
7439-89-6	Iron	33000	88	190	10		B374725	05/22/24 23:44	SW-846 6010D
7439-92-1	Lead	76	0.40	0.57	1		B374725	05/22/24 21:21	SW-846 6010D
7439-95-4	Magnesium	5800	4.4	19	1		B374725	05/22/24 21:21	SW-846 6010D
7439-96-5	Manganese	660	0.22	0.38	1		B374725	05/22/24 21:21	SW-846 6010D
7440-02-0	Nickel	27	0.52	0.76	1		B374725	05/22/24 21:21	SW-846 6010D
7440-09-7	Potassium	1500	470	1900	10	D, J	B374725	05/22/24 23:44	SW-846 6010D
7782-49-2	Selenium		0.94	3.8	1		B374725	05/22/24 21:21	SW-846 6010D
7440-22-4	Silver		0.23	0.38	1		B374725	05/22/24 21:21	SW-846 6010D
7440-23-5	Sodium		56	190	1		B374725	05/22/24 21:21	SW-846 6010D
7440-28-0	Thallium		0.61	1.9	1		B374725	05/27/24 18:39	SW-846 6010D
7440-62-2	Vanadium	22	0.42	0.76	1		B374725	05/22/24 21:21	SW-846 6010D
7440-66-6	Zinc	100	0.67	0.76	1		B374725	05/22/24 21:21	SW-846 6010D

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ANALYSIS DATA SHEET

SB3A

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-10
Sampled:	05/08/24 14:42		
% Solids:	83.85		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
7429-90-5	Aluminum	15000	6.2	20	1		B374725	05/22/24 21:28	SW-846 6010D
7440-36-0	Antimony		0.52	2.0	1		B374725	05/27/24 18:46	SW-846 6010D
7440-38-2	Arsenic	5.1	0.55	3.9	1		B374725	05/22/24 21:28	SW-846 6010D
7440-39-3	Barium	100	0.42	2.0	1		B374725	05/22/24 21:28	SW-846 6010D
7440-41-7	Beryllium	0.67	0.060	0.20	1		B374725	05/22/24 21:28	SW-846 6010D
7440-43-9	Cadmium	0.36	0.19	0.39	1	J	B374725	05/22/24 21:28	SW-846 6010D
7440-70-2	Calcium	9300	10	20	1		B374725	05/22/24 21:28	SW-846 6010D
7440-47-3	Chromium	19	0.50	0.78	1		B374725	05/22/24 21:28	SW-846 6010D
7440-48-4	Cobalt	12	0.33	2.0	1		B374725	05/22/24 21:28	SW-846 6010D
7440-50-8	Copper	39	1.4	1.6	1		B374725	05/22/24 21:28	SW-846 6010D
7439-89-6	Iron	35000	91	200	10		B374725	05/22/24 23:50	SW-846 6010D
7439-92-1	Lead	64	0.41	0.59	1		B374725	05/22/24 21:28	SW-846 6010D
7439-95-4	Magnesium	6400	4.6	20	1		B374725	05/22/24 21:28	SW-846 6010D
7439-96-5	Manganese	810	0.22	0.39	1		B374725	05/22/24 21:28	SW-846 6010D
7440-02-0	Nickel	29	0.54	0.78	1		B374725	05/22/24 21:28	SW-846 6010D
7440-09-7	Potassium	1500	480	2000	10	D, J	B374725	05/22/24 23:50	SW-846 6010D
7782-49-2	Selenium		0.97	3.9	1		B374725	05/22/24 21:28	SW-846 6010D
7440-22-4	Silver		0.24	0.39	1		B374725	05/22/24 21:28	SW-846 6010D
7440-23-5	Sodium		58	200	1		B374725	05/22/24 21:28	SW-846 6010D
7440-28-0	Thallium		0.62	2.0	1		B374725	05/27/24 18:46	SW-846 6010D
7440-62-2	Vanadium	23	0.43	0.78	1		B374725	05/22/24 21:28	SW-846 6010D
7440-66-6	Zinc	100	0.69	0.78	1		B374725	05/22/24 21:28	SW-846 6010D

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SB4

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-11
Sampled:	05/08/24 14:53		
% Solids:	74.07		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
7429-90-5	Aluminum	16000	6.7	21	1		B374725	05/22/24 21:35	SW-846 6010D
7440-36-0	Antimony		0.57	2.1	1		B374725	05/27/24 18:53	SW-846 6010D
7440-38-2	Arsenic	7.0	0.60	4.3	1		B374725	05/22/24 21:35	SW-846 6010D
7440-39-3	Barium	330	0.45	2.1	1		B374725	05/22/24 21:35	SW-846 6010D
7440-41-7	Beryllium	1.1	0.065	0.21	1		B374725	05/22/24 21:35	SW-846 6010D
7440-43-9	Cadmium	1.8	0.20	0.43	1		B374725	05/22/24 21:35	SW-846 6010D
7440-70-2	Calcium	9900	11	21	1		B374725	05/22/24 21:35	SW-846 6010D
7440-47-3	Chromium	110	0.54	0.85	1		B374725	05/22/24 21:35	SW-846 6010D
7440-48-4	Cobalt	16	0.36	2.1	1		B374725	05/22/24 21:35	SW-846 6010D
7440-50-8	Copper	120	1.5	1.7	1		B374725	05/22/24 21:35	SW-846 6010D
7439-89-6	Iron	43000	99	210	10		B374725	05/22/24 23:55	SW-846 6010D
7439-92-1	Lead	3800	4.5	6.4	10		B374725	05/22/24 23:55	SW-846 6010D
7439-95-4	Magnesium	5500	5.0	21	1		B374725	05/22/24 21:35	SW-846 6010D
7439-96-5	Manganese	670	0.24	0.43	1		B374725	05/22/24 21:35	SW-846 6010D
7440-02-0	Nickel	63	0.59	0.85	1		B374725	05/22/24 21:35	SW-846 6010D
7440-09-7	Potassium	2000	530	2100	10	D, J	B374725	05/22/24 23:55	SW-846 6010D
7782-49-2	Selenium		1.1	4.3	1		B374725	05/22/24 21:35	SW-846 6010D
7440-22-4	Silver		0.26	0.43	1		B374725	05/22/24 21:35	SW-846 6010D
7440-23-5	Sodium	75	63	210	1	J	B374725	05/22/24 21:35	SW-846 6010D
7440-28-0	Thallium		0.68	2.1	1		B374725	05/27/24 18:53	SW-846 6010D
7440-62-2	Vanadium	25	0.47	0.85	1		B374725	05/22/24 21:35	SW-846 6010D
7440-66-6	Zinc	730	7.5	8.5	10		B374725	05/22/24 23:55	SW-846 6010D

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ANALYSIS DATA SHEET

SB4A

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-12
Sampled:	05/08/24 14:53		
% Solids:	77.87		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
7429-90-5	Aluminum	18000	6.3	20	1		B374725	05/22/24 21:41	SW-846 6010D
7440-36-0	Antimony		0.54	2.0	1		B374725	05/27/24 19:00	SW-846 6010D
7440-38-2	Arsenic	6.8	0.57	4.0	1		B374725	05/22/24 21:41	SW-846 6010D
7440-39-3	Barium	390	0.43	2.0	1		B374725	05/22/24 21:41	SW-846 6010D
7440-41-7	Beryllium	1.1	0.061	0.20	1		B374725	05/22/24 21:41	SW-846 6010D
7440-43-9	Cadmium	4.0	0.19	0.40	1		B374725	05/22/24 21:41	SW-846 6010D
7440-70-2	Calcium	12000	10	20	1		B374725	05/22/24 21:41	SW-846 6010D
7440-47-3	Chromium	150	0.51	0.81	1		B374725	05/22/24 21:41	SW-846 6010D
7440-48-4	Cobalt	17	0.34	2.0	1		B374725	05/22/24 21:41	SW-846 6010D
7440-50-8	Copper	75	1.4	1.6	1		B374725	05/22/24 21:41	SW-846 6010D
7439-89-6	Iron	49000	190	400	20		B374725	05/23/24 18:59	SW-846 6010D
7439-92-1	Lead	4600	4.2	6.0	10		B374725	05/23/24 00:03	SW-846 6010D
7439-95-4	Magnesium	6700	4.7	20	1		B374725	05/22/24 21:41	SW-846 6010D
7439-96-5	Manganese	850	0.23	0.40	1		B374725	05/22/24 21:41	SW-846 6010D
7440-02-0	Nickel	46	0.56	0.81	1		B374725	05/22/24 21:41	SW-846 6010D
7440-09-7	Potassium	2000	500	2000	10	D, J	B374725	05/23/24 00:03	SW-846 6010D
7782-49-2	Selenium		1.0	4.0	1		B374725	05/22/24 21:41	SW-846 6010D
7440-22-4	Silver		0.25	0.40	1		B374725	05/22/24 21:41	SW-846 6010D
7440-23-5	Sodium	82	60	200	1	J	B374725	05/22/24 21:41	SW-846 6010D
7440-28-0	Thallium		0.64	2.0	1		B374725	05/27/24 19:00	SW-846 6010D
7440-62-2	Vanadium	27	0.45	0.81	1		B374725	05/22/24 21:41	SW-846 6010D
7440-66-6	Zinc	1100	7.1	8.1	10		B374725	05/23/24 00:03	SW-846 6010D

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SB5

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-13
Sampled:	05/08/24 15:09		
% Solids:	72.52		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
7429-90-5	Aluminum	16000	7.2	23	1		B374725	05/22/24 21:48	SW-846 6010D
7440-36-0	Antimony		0.61	2.3	1		B374725	05/27/24 19:07	SW-846 6010D
7440-38-2	Arsenic	5.1	0.65	4.6	1		B374725	05/22/24 21:48	SW-846 6010D
7440-39-3	Barium	130	0.49	2.3	1		B374725	05/22/24 21:48	SW-846 6010D
7440-41-7	Beryllium	0.86	0.070	0.23	1		B374725	05/22/24 21:48	SW-846 6010D
7440-43-9	Cadmium	0.29	0.22	0.46	1	J	B374725	05/22/24 21:48	SW-846 6010D
7440-70-2	Calcium	4200	12	23	1		B374725	05/22/24 21:48	SW-846 6010D
7440-47-3	Chromium	22	0.58	0.92	1		B374725	05/22/24 21:48	SW-846 6010D
7440-48-4	Cobalt	13	0.39	2.3	1		B374725	05/22/24 21:48	SW-846 6010D
7440-50-8	Copper	62	1.6	1.8	1		B374725	05/22/24 21:48	SW-846 6010D
7439-89-6	Iron	32000	110	230	10		B374725	05/23/24 00:10	SW-846 6010D
7439-92-1	Lead	110	0.48	0.69	1		B374725	05/22/24 21:48	SW-846 6010D
7439-95-4	Magnesium	5100	5.3	23	1		B374725	05/22/24 21:48	SW-846 6010D
7439-96-5	Manganese	740	0.26	0.46	1		B374725	05/22/24 21:48	SW-846 6010D
7440-02-0	Nickel	38	0.63	0.92	1		B374725	05/22/24 21:48	SW-846 6010D
7440-09-7	Potassium	2000	570	2300	10	D, J	B374725	05/23/24 00:10	SW-846 6010D
7782-49-2	Selenium		1.1	4.6	1		B374725	05/22/24 21:48	SW-846 6010D
7440-22-4	Silver		0.28	0.46	1		B374725	05/22/24 21:48	SW-846 6010D
7440-23-5	Sodium		68	230	1		B374725	05/22/24 21:48	SW-846 6010D
7440-28-0	Thallium		0.73	2.3	1		B374725	05/27/24 19:07	SW-846 6010D
7440-62-2	Vanadium	24	0.51	0.92	1		B374725	05/22/24 21:48	SW-846 6010D
7440-66-6	Zinc	150	0.81	0.92	1		B374725	05/22/24 21:48	SW-846 6010D

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SB5A

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-14
Sampled:	05/08/24 15:15		
% Solids:	76.39		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
7429-90-5	Aluminum	17000	6.9	22	1		B374725	05/22/24 21:55	SW-846 6010D
7440-36-0	Antimony		0.58	2.2	1		B374725	05/27/24 19:15	SW-846 6010D
7440-38-2	Arsenic	5.4	0.61	4.4	1		B374725	05/22/24 21:55	SW-846 6010D
7440-39-3	Barium	140	0.46	2.2	1		B374725	05/22/24 21:55	SW-846 6010D
7440-41-7	Beryllium	0.90	0.066	0.22	1		B374725	05/22/24 21:55	SW-846 6010D
7440-43-9	Cadmium	0.28	0.21	0.44	1	J	B374725	05/22/24 21:55	SW-846 6010D
7440-70-2	Calcium	3900	11	22	1		B374725	05/22/24 21:55	SW-846 6010D
7440-47-3	Chromium	23	0.55	0.87	1		B374725	05/22/24 21:55	SW-846 6010D
7440-48-4	Cobalt	14	0.37	2.2	1		B374725	05/22/24 21:55	SW-846 6010D
7440-50-8	Copper	62	1.6	1.7	1		B374725	05/22/24 21:55	SW-846 6010D
7439-89-6	Iron	33000	100	220	10		B374725	05/23/24 00:16	SW-846 6010D
7439-92-1	Lead	110	0.46	0.65	1		B374725	05/22/24 21:55	SW-846 6010D
7439-95-4	Magnesium	5300	5.1	22	1		B374725	05/22/24 21:55	SW-846 6010D
7439-96-5	Manganese	740	0.25	0.44	1		B374725	05/22/24 21:55	SW-846 6010D
7440-02-0	Nickel	38	0.60	0.87	1		B374725	05/22/24 21:55	SW-846 6010D
7440-09-7	Potassium	2000	540	2200	10	D, J	B374725	05/23/24 00:16	SW-846 6010D
7782-49-2	Selenium		1.1	4.4	1		B374725	05/22/24 21:55	SW-846 6010D
7440-22-4	Silver		0.27	0.44	1		B374725	05/22/24 21:55	SW-846 6010D
7440-23-5	Sodium		65	220	1		B374725	05/22/24 21:55	SW-846 6010D
7440-28-0	Thallium		0.70	2.2	1		B374725	05/27/24 19:15	SW-846 6010D
7440-62-2	Vanadium	26	0.48	0.87	1		B374725	05/22/24 21:55	SW-846 6010D
7440-66-6	Zinc	140	0.77	0.87	1		B374725	05/22/24 21:55	SW-846 6010D

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SB6

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-15
Sampled:	05/08/24 15:20		
% Solids:	78.48		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
7429-90-5	Aluminum	15000	6.3	20	1		B374725	05/22/24 22:01	SW-846 6010D
7440-36-0	Antimony		0.54	2.0	1		B374725	05/27/24 19:22	SW-846 6010D
7440-38-2	Arsenic	8.9	0.57	4.0	1		B374725	05/22/24 22:01	SW-846 6010D
7440-39-3	Barium	150	0.43	2.0	1		B374725	05/22/24 22:01	SW-846 6010D
7440-41-7	Beryllium	0.76	0.061	0.20	1		B374725	05/22/24 22:01	SW-846 6010D
7440-43-9	Cadmium	0.29	0.19	0.40	1	J	B374725	05/22/24 22:01	SW-846 6010D
7440-70-2	Calcium	26000	100	200	10		B374725	05/23/24 00:22	SW-846 6010D
7440-47-3	Chromium	24	0.51	0.80	1		B374725	05/22/24 22:01	SW-846 6010D
7440-48-4	Cobalt	12	0.34	2.0	1		B374725	05/22/24 22:01	SW-846 6010D
7440-50-8	Copper	56	1.4	1.6	1		B374725	05/22/24 22:01	SW-846 6010D
7439-89-6	Iron	33000	93	200	10		B374725	05/23/24 00:22	SW-846 6010D
7439-92-1	Lead	220	0.42	0.60	1		B374725	05/22/24 22:01	SW-846 6010D
7439-95-4	Magnesium	5300	4.7	20	1		B374725	05/22/24 22:01	SW-846 6010D
7439-96-5	Manganese	570	0.23	0.40	1		B374725	05/22/24 22:01	SW-846 6010D
7440-02-0	Nickel	34	0.55	0.80	1		B374725	05/22/24 22:01	SW-846 6010D
7440-09-7	Potassium	1900	500	2000	10	D, J	B374725	05/23/24 00:22	SW-846 6010D
7782-49-2	Selenium		1.0	4.0	1		B374725	05/22/24 22:01	SW-846 6010D
7440-22-4	Silver		0.25	0.40	1		B374725	05/22/24 22:01	SW-846 6010D
7440-23-5	Sodium	73	60	200	1	J	B374725	05/22/24 22:01	SW-846 6010D
7440-28-0	Thallium		0.64	2.0	1		B374725	05/27/24 19:22	SW-846 6010D
7440-62-2	Vanadium	24	0.44	0.80	1		B374725	05/22/24 22:01	SW-846 6010D
7440-66-6	Zinc	140	0.71	0.80	1		B374725	05/22/24 22:01	SW-846 6010D

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SB6A

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-16
Sampled:	05/08/24 15:22		
% Solids:	80.39		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
7429-90-5	Aluminum	16000	6.2	20	1		B374725	05/22/24 22:08	SW-846 6010D
7440-36-0	Antimony		0.53	2.0	1		B374725	05/27/24 19:41	SW-846 6010D
7440-38-2	Arsenic	6.3	0.56	3.9	1		B374725	05/22/24 22:08	SW-846 6010D
7440-39-3	Barium	120	0.42	2.0	1		B374725	05/22/24 22:08	SW-846 6010D
7440-41-7	Beryllium	0.87	0.060	0.20	1		B374725	05/22/24 22:08	SW-846 6010D
7440-43-9	Cadmium	0.28	0.19	0.39	1	J	B374725	05/22/24 22:08	SW-846 6010D
7440-70-2	Calcium	4200	10	20	1		B374725	05/22/24 22:08	SW-846 6010D
7440-47-3	Chromium	23	0.50	0.79	1		B374725	05/22/24 22:08	SW-846 6010D
7440-48-4	Cobalt	14	0.33	2.0	1		B374725	05/22/24 22:08	SW-846 6010D
7440-50-8	Copper	59	1.4	1.6	1		B374725	05/22/24 22:08	SW-846 6010D
7439-89-6	Iron	36000	91	200	10		B374725	05/23/24 00:27	SW-846 6010D
7439-92-1	Lead	130	0.41	0.59	1		B374725	05/22/24 22:08	SW-846 6010D
7439-95-4	Magnesium	5900	4.6	20	1		B374725	05/22/24 22:08	SW-846 6010D
7439-96-5	Manganese	630	0.22	0.39	1		B374725	05/22/24 22:08	SW-846 6010D
7440-02-0	Nickel	39	0.54	0.79	1		B374725	05/22/24 22:08	SW-846 6010D
7440-09-7	Potassium	1900	490	2000	10	D, J	B374725	05/23/24 00:27	SW-846 6010D
7782-49-2	Selenium		0.98	3.9	1		B374725	05/22/24 22:08	SW-846 6010D
7440-22-4	Silver		0.24	0.39	1		B374725	05/22/24 22:08	SW-846 6010D
7440-23-5	Sodium	61	59	200	1	J	B374725	05/22/24 22:08	SW-846 6010D
7440-28-0	Thallium		0.63	2.0	1		B374725	05/27/24 19:41	SW-846 6010D
7440-62-2	Vanadium	25	0.44	0.79	1		B374725	05/22/24 22:08	SW-846 6010D
7440-66-6	Zinc	150	0.69	0.79	1		B374725	05/22/24 22:08	SW-846 6010D

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SB7

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-17
Sampled:	05/08/24 15:39		
% Solids:	69.34		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
7429-90-5	Aluminum	14000	7.3	23	1		B374725	05/22/24 22:14	SW-846 6010D
7440-36-0	Antimony		0.62	2.3	1		B374725	05/27/24 19:48	SW-846 6010D
7440-38-2	Arsenic	4.6	0.65	4.6	1	J	B374725	05/22/24 22:14	SW-846 6010D
7440-39-3	Barium	100	0.49	2.3	1		B374725	05/22/24 22:14	SW-846 6010D
7440-41-7	Beryllium	0.57	0.070	0.23	1		B374725	05/22/24 22:14	SW-846 6010D
7440-43-9	Cadmium	0.38	0.22	0.46	1	J	B374725	05/22/24 22:14	SW-846 6010D
7440-70-2	Calcium	5500	12	23	1		B374725	05/22/24 22:14	SW-846 6010D
7440-47-3	Chromium	20	0.59	0.93	1		B374725	05/22/24 22:14	SW-846 6010D
7440-48-4	Cobalt	9.6	0.39	2.3	1		B374725	05/22/24 22:14	SW-846 6010D
7440-50-8	Copper	40	1.6	1.9	1		B374725	05/22/24 22:14	SW-846 6010D
7439-89-6	Iron	27000	110	230	10		B374725	05/23/24 00:33	SW-846 6010D
7439-92-1	Lead	190	0.49	0.69	1		B374725	05/22/24 22:14	SW-846 6010D
7439-95-4	Magnesium	4600	5.4	23	1		B374725	05/22/24 22:14	SW-846 6010D
7439-96-5	Manganese	620	0.26	0.46	1		B374725	05/22/24 22:14	SW-846 6010D
7440-02-0	Nickel	23	0.64	0.93	1		B374725	05/22/24 22:14	SW-846 6010D
7440-09-7	Potassium	1100	570	2300	10	D, J	B374725	05/23/24 00:33	SW-846 6010D
7782-49-2	Selenium		1.1	4.6	1		B374725	05/22/24 22:14	SW-846 6010D
7440-22-4	Silver		0.28	0.46	1		B374725	05/22/24 22:14	SW-846 6010D
7440-23-5	Sodium		69	230	1		B374725	05/22/24 22:14	SW-846 6010D
7440-28-0	Thallium		0.74	2.3	1		B374725	05/27/24 19:48	SW-846 6010D
7440-62-2	Vanadium	30	0.51	0.93	1		B374725	05/22/24 22:14	SW-846 6010D
7440-66-6	Zinc	120	0.81	0.93	1		B374725	05/22/24 22:14	SW-846 6010D

1 - FORM I
ANALYSIS DATA SHEET

SB7A

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-18
Sampled:	05/08/24 15:57		
% Solids:	80.73		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
7429-90-5	Aluminum	13000	6.3	20	1		B374725	05/22/24 22:31	SW-846 6010D
7440-36-0	Antimony		0.53	2.0	1		B374725	05/27/24 19:55	SW-846 6010D
7440-38-2	Arsenic	4.9	0.56	4.0	1		B374725	05/22/24 22:31	SW-846 6010D
7440-39-3	Barium	99	0.43	2.0	1		B374725	05/22/24 22:31	SW-846 6010D
7440-41-7	Beryllium	0.54	0.061	0.20	1		B374725	05/22/24 22:31	SW-846 6010D
7440-43-9	Cadmium	0.41	0.19	0.40	1		B374725	05/22/24 22:31	SW-846 6010D
7440-70-2	Calcium	9300	10	20	1		B374725	05/22/24 22:31	SW-846 6010D
7440-47-3	Chromium	22	0.51	0.80	1		B374725	05/22/24 22:31	SW-846 6010D
7440-48-4	Cobalt	8.9	0.34	2.0	1		B374725	05/22/24 22:31	SW-846 6010D
7440-50-8	Copper	43	1.4	1.6	1		B374725	05/22/24 22:31	SW-846 6010D
7439-89-6	Iron	26000	93	200	10		B374725	05/23/24 00:38	SW-846 6010D
7439-92-1	Lead	190	0.42	0.60	1		B374725	05/22/24 22:31	SW-846 6010D
7439-95-4	Magnesium	6800	4.7	20	1		B374725	05/22/24 22:31	SW-846 6010D
7439-96-5	Manganese	650	0.23	0.40	1		B374725	05/22/24 22:31	SW-846 6010D
7440-02-0	Nickel	24	0.55	0.80	1		B374725	05/22/24 22:31	SW-846 6010D
7440-09-7	Potassium	1000	490	2000	10	D, J	B374725	05/23/24 00:38	SW-846 6010D
7782-49-2	Selenium		0.99	4.0	1		B374725	05/22/24 22:31	SW-846 6010D
7440-22-4	Silver		0.25	0.40	1		B374725	05/22/24 22:31	SW-846 6010D
7440-23-5	Sodium		59	200	1		B374725	05/22/24 22:31	SW-846 6010D
7440-28-0	Thallium		0.64	2.0	1		B374725	05/27/24 19:55	SW-846 6010D
7440-62-2	Vanadium	36	0.44	0.80	1		B374725	05/22/24 22:31	SW-846 6010D
7440-66-6	Zinc	130	0.70	0.80	1		B374725	05/22/24 22:31	SW-846 6010D

1 - FORM I
ANALYSIS DATA SHEET

DUP

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-19
Sampled:	05/08/24 15:45		
% Solids:	69.57		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
7429-90-5	Aluminum	14000	7.5	24	1		B374725	05/22/24 22:38	SW-846 6010D
7440-36-0	Antimony		0.63	2.4	1		B374725	05/27/24 20:02	SW-846 6010D
7440-38-2	Arsenic	4.7	0.67	4.8	1	J	B374725	05/22/24 22:38	SW-846 6010D
7440-39-3	Barium	100	0.51	2.4	1		B374725	05/22/24 22:38	SW-846 6010D
7440-41-7	Beryllium	0.58	0.072	0.24	1		B374725	05/22/24 22:38	SW-846 6010D
7440-43-9	Cadmium	0.36	0.23	0.48	1	J	B374725	05/22/24 22:38	SW-846 6010D
7440-70-2	Calcium	4800	12	24	1		B374725	05/22/24 22:38	SW-846 6010D
7440-47-3	Chromium	19	0.60	0.95	1		B374725	05/22/24 22:38	SW-846 6010D
7440-48-4	Cobalt	9.8	0.40	2.4	1		B374725	05/22/24 22:38	SW-846 6010D
7440-50-8	Copper	39	1.7	1.9	1		B374725	05/22/24 22:38	SW-846 6010D
7439-89-6	Iron	26000	110	240	10		B374725	05/23/24 00:56	SW-846 6010D
7439-92-1	Lead	170	0.50	0.71	1		B374725	05/22/24 22:38	SW-846 6010D
7439-95-4	Magnesium	4400	5.5	24	1		B374725	05/22/24 22:38	SW-846 6010D
7439-96-5	Manganese	600	0.27	0.48	1		B374725	05/22/24 22:38	SW-846 6010D
7440-02-0	Nickel	23	0.66	0.95	1		B374725	05/22/24 22:38	SW-846 6010D
7440-09-7	Potassium	1100	590	2400	10	D, J	B374725	05/23/24 00:56	SW-846 6010D
7782-49-2	Selenium		1.2	4.8	1		B374725	05/22/24 22:38	SW-846 6010D
7440-22-4	Silver		0.29	0.48	1		B374725	05/22/24 22:38	SW-846 6010D
7440-23-5	Sodium		71	240	1		B374725	05/22/24 22:38	SW-846 6010D
7440-28-0	Thallium		0.76	2.4	1		B374725	05/27/24 20:02	SW-846 6010D
7440-62-2	Vanadium	27	0.53	0.95	1		B374725	05/22/24 22:38	SW-846 6010D
7440-66-6	Zinc	130	0.84	0.95	1		B374725	05/22/24 22:38	SW-846 6010D

INITIAL AND CONTINUING CALIBRATION CHECK

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ICP2	Calibration:	UNASSIGNED
		Sequence:	S104880

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S104880-ICV1	Aluminum	2.00	1.96	98.1	mg/L	+/- 10.00%
	Antimony	2.00	1.99	99.4	mg/L	+/- 10.00%
	Arsenic	2.00	1.99	99.4	mg/L	+/- 10.00%
	Barium	2.00	2.08	104	mg/L	+/- 10.00%
	Beryllium	2.00	2.03	101	mg/L	+/- 10.00%
	Cadmium	2.00	2.02	101	mg/L	+/- 10.00%
	Calcium	2.00	1.95	97.6	mg/L	+/- 10.00%
	Chromium	2.00	2.06	103	mg/L	+/- 10.00%
	Cobalt	2.00	2.06	103	mg/L	+/- 10.00%
	Copper	2.00	2.03	102	mg/L	+/- 10.00%
	Iron	2.00	2.07	103	mg/L	+/- 10.00%
	Lead	2.00	2.04	102	mg/L	+/- 10.00%
	Magnesium	2.00	1.99	99.5	mg/L	+/- 10.00%
	Manganese	2.00	2.00	99.8	mg/L	+/- 10.00%
	Nickel	2.00	2.07	103	mg/L	+/- 10.00%
	Potassium	2.00	1.94	97.1	mg/L	+/- 10.00%
	Selenium	2.00	1.99	99.4	mg/L	+/- 10.00%
	Silver	1.00	0.956	95.6	mg/L	+/- 10.00%
	Sodium	2.00	1.96	98.2	mg/L	+/- 10.00%
	Thallium	1.00	0.961	96.1	mg/L	+/- 10.00%
	Vanadium	2.00	2.04	102	mg/L	+/- 10.00%
	Zinc	2.00	2.04	102	mg/L	+/- 10.00%
S104880-CCV1	Aluminum	10.0	10.1	101	mg/L	+/- 10.00%
	Antimony	5.00	4.91	98.2	mg/L	+/- 10.00%
	Arsenic	5.00	4.89	97.9	mg/L	+/- 10.00%
	Barium	5.00	5.09	102	mg/L	+/- 10.00%
	Beryllium	5.00	5.01	100	mg/L	+/- 10.00%
	Cadmium	5.00	4.99	99.8	mg/L	+/- 10.00%
	Calcium	10.0	10.1	101	mg/L	+/- 10.00%
	Chromium	5.00	5.04	101	mg/L	+/- 10.00%
	Cobalt	5.00	5.06	101	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ICP2	Calibration:	UNASSIGNED
		Sequence:	S104880

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S104880-CCV1	Copper	5.00	5.00	100	mg/L	+/- 10.00%
	Iron	5.00	5.08	102	mg/L	+/- 10.00%
	Lead	5.00	5.00	100	mg/L	+/- 10.00%
	Magnesium	10.0	10.1	101	mg/L	+/- 10.00%
	Manganese	5.00	5.00	99.9	mg/L	+/- 10.00%
	Nickel	5.00	5.06	101	mg/L	+/- 10.00%
	Potassium	10.0	10.2	102	mg/L	+/- 10.00%
	Selenium	5.00	4.93	98.5	mg/L	+/- 10.00%
	Silver	2.50	2.41	96.4	mg/L	+/- 10.00%
	Sodium	10.0	10.3	103	mg/L	+/- 10.00%
	Thallium	2.50	2.42	97.0	mg/L	+/- 10.00%
	Vanadium	5.00	4.98	99.7	mg/L	+/- 10.00%
	Zinc	5.00	5.08	102	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ICP2	Calibration:	2400563
		Sequence:	S104904

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S104904-CCV1	Aluminum	10.0	9.88	98.8	mg/L	+/- 10.00%
	Arsenic	5.00	4.90	98.1	mg/L	+/- 10.00%
	Barium	5.00	5.14	103	mg/L	+/- 10.00%
	Beryllium	5.00	4.96	99.2	mg/L	+/- 10.00%
	Cadmium	5.00	5.10	102	mg/L	+/- 10.00%
	Calcium	10.0	10.1	101	mg/L	+/- 10.00%
	Chromium	5.00	5.08	102	mg/L	+/- 10.00%
	Cobalt	5.00	5.11	102	mg/L	+/- 10.00%
	Copper	5.00	4.88	97.5	mg/L	+/- 10.00%
	Iron	5.00	4.99	99.7	mg/L	+/- 10.00%
	Lead	5.00	5.06	101	mg/L	+/- 10.00%
	Magnesium	10.0	10.0	100	mg/L	+/- 10.00%
	Manganese	5.00	4.94	98.9	mg/L	+/- 10.00%
	Nickel	5.00	5.07	101	mg/L	+/- 10.00%
	Potassium	10.0	9.93	99.3	mg/L	+/- 10.00%
	Selenium	5.00	4.99	99.7	mg/L	+/- 10.00%
	Silver	2.50	2.47	99.0	mg/L	+/- 10.00%
	Sodium	10.0	10.1	101	mg/L	+/- 10.00%
	Vanadium	5.00	5.18	104	mg/L	+/- 10.00%
	Zinc	5.00	5.19	104	mg/L	+/- 10.00%
S104904-CCV2	Aluminum	10.0	10.0	100	mg/L	+/- 10.00%
	Arsenic	5.00	4.96	99.1	mg/L	+/- 10.00%
	Barium	5.00	5.22	104	mg/L	+/- 10.00%
	Beryllium	5.00	5.04	101	mg/L	+/- 10.00%
	Cadmium	5.00	5.20	104	mg/L	+/- 10.00%
	Calcium	10.0	10.3	103	mg/L	+/- 10.00%
	Chromium	5.00	5.17	103	mg/L	+/- 10.00%
	Cobalt	5.00	5.20	104	mg/L	+/- 10.00%
	Copper	5.00	4.96	99.1	mg/L	+/- 10.00%
	Iron	5.00	5.10	102	mg/L	+/- 10.00%
	Lead	5.00	5.10	102	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ICP2	Calibration:	2400563
		Sequence:	S104904

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S104904-CCV2	Magnesium	10.0	10.2	102	mg/L	+/- 10.00%
	Manganese	5.00	5.03	101	mg/L	+/- 10.00%
	Nickel	5.00	5.16	103	mg/L	+/- 10.00%
	Potassium	10.0	10.0	100	mg/L	+/- 10.00%
	Selenium	5.00	5.03	101	mg/L	+/- 10.00%
	Silver	2.50	2.58	103	mg/L	+/- 10.00%
	Sodium	10.0	10.2	102	mg/L	+/- 10.00%
	Vanadium	5.00	5.28	106	mg/L	+/- 10.00%
	Zinc	5.00	5.30	106	mg/L	+/- 10.00%
S104904-CCV3	Aluminum	10.0	9.74	97.4	mg/L	+/- 10.00%
	Arsenic	5.00	4.76	95.3	mg/L	+/- 10.00%
	Barium	5.00	5.07	101	mg/L	+/- 10.00%
	Beryllium	5.00	4.87	97.4	mg/L	+/- 10.00%
	Cadmium	5.00	5.00	100	mg/L	+/- 10.00%
	Calcium	10.0	10.0	100	mg/L	+/- 10.00%
	Chromium	5.00	5.01	100	mg/L	+/- 10.00%
	Cobalt	5.00	5.02	100	mg/L	+/- 10.00%
	Copper	5.00	4.72	94.3	mg/L	+/- 10.00%
	Iron	5.00	4.99	99.7	mg/L	+/- 10.00%
	Lead	5.00	4.95	99.0	mg/L	+/- 10.00%
	Magnesium	10.0	9.94	99.4	mg/L	+/- 10.00%
	Manganese	5.00	4.91	98.3	mg/L	+/- 10.00%
	Nickel	5.00	4.97	99.5	mg/L	+/- 10.00%
	Potassium	10.0	9.77	97.7	mg/L	+/- 10.00%
	Selenium	5.00	4.81	96.2	mg/L	+/- 10.00%
	Silver	2.50	2.47	98.7	mg/L	+/- 10.00%
	Sodium	10.0	9.91	99.1	mg/L	+/- 10.00%
	Vanadium	5.00	5.10	102	mg/L	+/- 10.00%
	Zinc	5.00	5.10	102	mg/L	+/- 10.00%
S104904-CCV4	Aluminum	10.0	9.68	96.8	mg/L	+/- 10.00%
	Arsenic	5.00	4.82	96.5	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ICP2	Calibration:	2400563
		Sequence:	S104904

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S104904-CCV4	Barium	5.00	5.13	103	mg/L	+/- 10.00%
	Beryllium	5.00	4.75	94.9	mg/L	+/- 10.00%
	Cadmium	5.00	5.07	101	mg/L	+/- 10.00%
	Calcium	10.0	10.0	100	mg/L	+/- 10.00%
	Chromium	5.00	5.06	101	mg/L	+/- 10.00%
	Cobalt	5.00	5.08	102	mg/L	+/- 10.00%
	Copper	5.00	4.68	93.6	mg/L	+/- 10.00%
	Iron	5.00	5.02	100	mg/L	+/- 10.00%
	Lead	5.00	5.02	100	mg/L	+/- 10.00%
	Magnesium	10.0	9.89	98.9	mg/L	+/- 10.00%
	Manganese	5.00	4.90	98.1	mg/L	+/- 10.00%
	Nickel	5.00	5.03	101	mg/L	+/- 10.00%
	Potassium	10.0	9.71	97.1	mg/L	+/- 10.00%
	Selenium	5.00	4.88	97.7	mg/L	+/- 10.00%
	Silver	2.50	2.45	98.0	mg/L	+/- 10.00%
	Sodium	10.0	9.69	96.9	mg/L	+/- 10.00%
	Vanadium	5.00	5.16	103	mg/L	+/- 10.00%
	Zinc	5.00	5.20	104	mg/L	+/- 10.00%
S104904-CCV5	Aluminum	10.0	9.94	99.4	mg/L	+/- 10.00%
	Arsenic	5.00	5.00	100	mg/L	+/- 10.00%
	Barium	5.00	5.27	105	mg/L	+/- 10.00%
	Beryllium	5.00	4.94	98.8	mg/L	+/- 10.00%
	Cadmium	5.00	5.20	104	mg/L	+/- 10.00%
	Calcium	10.0	10.3	103	mg/L	+/- 10.00%
	Chromium	5.00	5.21	104	mg/L	+/- 10.00%
	Cobalt	5.00	5.23	105	mg/L	+/- 10.00%
	Copper	5.00	4.85	97.0	mg/L	+/- 10.00%
	Iron	5.00	5.13	103	mg/L	+/- 10.00%
	Lead	5.00	5.17	103	mg/L	+/- 10.00%
	Magnesium	10.0	10.2	102	mg/L	+/- 10.00%
	Manganese	5.00	5.04	101	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ICP2	Calibration:	2400563
		Sequence:	S104904

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S104904-CCV5	Nickel	5.00	5.18	104	mg/L	+/- 10.00%
	Potassium	10.0	9.98	99.8	mg/L	+/- 10.00%
	Selenium	5.00	5.04	101	mg/L	+/- 10.00%
	Silver	2.50	2.57	103	mg/L	+/- 10.00%
	Sodium	10.0	10.1	101	mg/L	+/- 10.00%
	Vanadium	5.00	5.29	106	mg/L	+/- 10.00%
	Zinc	5.00	5.38	108	mg/L	+/- 10.00%
S104904-CCV6	Aluminum	10.0	9.96	99.6	mg/L	+/- 10.00%
	Arsenic	5.00	4.96	99.3	mg/L	+/- 10.00%
	Barium	5.00	5.24	105	mg/L	+/- 10.00%
	Beryllium	5.00	4.83	96.7	mg/L	+/- 10.00%
	Cadmium	5.00	5.15	103	mg/L	+/- 10.00%
	Calcium	10.0	10.3	103	mg/L	+/- 10.00%
	Chromium	5.00	5.17	103	mg/L	+/- 10.00%
	Cobalt	5.00	5.19	104	mg/L	+/- 10.00%
	Copper	5.00	4.83	96.6	mg/L	+/- 10.00%
	Iron	5.00	5.10	102	mg/L	+/- 10.00%
	Lead	5.00	5.14	103	mg/L	+/- 10.00%
	Magnesium	10.0	10.3	103	mg/L	+/- 10.00%
	Manganese	5.00	5.05	101	mg/L	+/- 10.00%
	Nickel	5.00	5.16	103	mg/L	+/- 10.00%
	Potassium	10.0	9.96	99.6	mg/L	+/- 10.00%
	Selenium	5.00	5.01	100	mg/L	+/- 10.00%
	Silver	2.50	2.46	98.3	mg/L	+/- 10.00%
	Sodium	10.0	9.92	99.2	mg/L	+/- 10.00%
	Vanadium	5.00	5.23	105	mg/L	+/- 10.00%
	Zinc	5.00	5.35	107	mg/L	+/- 10.00%
S104904-CCV7	Aluminum	10.0	9.86	98.6	mg/L	+/- 10.00%
	Arsenic	5.00	4.94	98.9	mg/L	+/- 10.00%
	Barium	5.00	5.23	105	mg/L	+/- 10.00%
	Beryllium	5.00	4.87	97.4	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ICP2	Calibration:	2400563
		Sequence:	S104904

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S104904-CCV7	Cadmium	5.00	5.14	103	mg/L	+/- 10.00%
	Calcium	10.0	10.3	103	mg/L	+/- 10.00%
	Chromium	5.00	5.17	103	mg/L	+/- 10.00%
	Cobalt	5.00	5.18	104	mg/L	+/- 10.00%
	Copper	5.00	4.85	97.1	mg/L	+/- 10.00%
	Iron	5.00	5.10	102	mg/L	+/- 10.00%
	Lead	5.00	5.13	103	mg/L	+/- 10.00%
	Magnesium	10.0	10.2	102	mg/L	+/- 10.00%
	Manganese	5.00	5.01	100	mg/L	+/- 10.00%
	Nickel	5.00	5.15	103	mg/L	+/- 10.00%
	Potassium	10.0	9.92	99.2	mg/L	+/- 10.00%
	Selenium	5.00	4.99	99.9	mg/L	+/- 10.00%
	Silver	2.50	2.35	94.1	mg/L	+/- 10.00%
	Sodium	10.0	9.89	98.9	mg/L	+/- 10.00%
	Vanadium	5.00	5.22	104	mg/L	+/- 10.00%
	Zinc	5.00	5.37	107	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ICP3	Calibration:	UNASSIGNED
		Sequence:	S104975

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S104975-ICV1	Iron	2.00	2.06	103	mg/L	+/- 10.00%
S104975-CCV1	Iron	5.00	4.94	98.8	mg/L	+/- 10.00%
S104975-CCV2	Iron	5.00	4.96	99.1	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ICP4	Calibration:	2400589
		Sequence:	S105074

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S105074-ICV1	Antimony	2.00	1.99	99.7	mg/L	+/- 10.00%
	Arsenic	2.00	1.96	97.8	mg/L	+/- 10.00%
	Barium	2.00	1.99	99.4	mg/L	+/- 10.00%
	Beryllium	2.00	2.01	100	mg/L	+/- 10.00%
	Cadmium	2.00	1.97	98.7	mg/L	+/- 10.00%
	Calcium	2.00	1.95	97.6	mg/L	+/- 10.00%
	Chromium	2.00	2.06	103	mg/L	+/- 10.00%
	Cobalt	2.00	2.06	103	mg/L	+/- 10.00%
	Copper	2.00	2.01	101	mg/L	+/- 10.00%
	Iron	2.00	2.11	106	mg/L	+/- 10.00%
	Lead	2.00	2.03	102	mg/L	+/- 10.00%
	Magnesium	2.00	1.96	98.0	mg/L	+/- 10.00%
	Manganese	2.00	2.02	101	mg/L	+/- 10.00%
	Nickel	2.00	2.06	103	mg/L	+/- 10.00%
	Potassium	2.00	1.95	97.6	mg/L	+/- 10.00%
	Selenium	2.00	1.93	96.7	mg/L	+/- 10.00%
	Thallium	1.00	1.03	103	mg/L	+/- 10.00%
	Vanadium	2.00	2.01	100	mg/L	+/- 10.00%
	Zinc	2.00	2.04	102	mg/L	+/- 10.00%
S105074-CCV1	Antimony	5.00	5.04	101	mg/L	+/- 10.00%
	Arsenic	5.00	4.96	99.2	mg/L	+/- 10.00%
	Barium	5.00	5.10	102	mg/L	+/- 10.00%
	Beryllium	5.00	4.98	99.7	mg/L	+/- 10.00%
	Cadmium	5.00	4.96	99.2	mg/L	+/- 10.00%
	Calcium	10.0	9.92	99.2	mg/L	+/- 10.00%
	Chromium	5.00	5.08	102	mg/L	+/- 10.00%
	Cobalt	5.00	5.12	102	mg/L	+/- 10.00%
	Copper	5.00	4.99	99.8	mg/L	+/- 10.00%
	Iron	5.00	5.10	102	mg/L	+/- 10.00%
	Lead	5.00	4.93	98.5	mg/L	+/- 10.00%
	Magnesium	10.0	10.0	100	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ICP4	Calibration:	2400589
		Sequence:	S105074

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S105074-CCV1	Manganese	5.00	5.03	101	mg/L	+/- 10.00%
	Nickel	5.00	5.11	102	mg/L	+/- 10.00%
	Potassium	10.0	10.3	103	mg/L	+/- 10.00%
	Selenium	5.00	4.87	97.4	mg/L	+/- 10.00%
	Thallium	2.50	2.59	104	mg/L	+/- 10.00%
	Vanadium	5.00	5.06	101	mg/L	+/- 10.00%
	Zinc	5.00	5.14	103	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ICP4	Calibration:	2400589
		Sequence:	S105084

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S105084-CCV1	Antimony	5.00	5.00	100	mg/L	+/- 10.00%
	Thallium	2.50	2.59	104	mg/L	+/- 10.00%
S105084-CCV2	Antimony	5.00	5.11	102	mg/L	+/- 10.00%
	Thallium	2.50	2.64	106	mg/L	+/- 10.00%
S105084-CCV3	Antimony	5.00	5.01	100	mg/L	+/- 10.00%
	Thallium	2.50	2.59	103	mg/L	+/- 10.00%
S105084-CCV4	Antimony	5.00	4.89	97.7	mg/L	+/- 10.00%
	Thallium	2.50	2.54	101	mg/L	+/- 10.00%

LOW-CONCENTRATION CALIBRATION VERIFICATION

SW-846 6010D

Laboratory: Pace New England
SDG: 24E1437
Client: NYS Division of Environmental Remediation
Project: Tivoli Memorial Park- CO 149634
Calibration: UNASSIGNED
Laboratory ID: S104880-LCV1
Sequence: S104880
Standard ID: 24D0841

ANALYTE	EXPECTED (mg/L)	FOUND (mg/L)	% DRIFT	QC LIMIT
Aluminum	0.0500	0.0469	-6.3	20.00
Arsenic	0.0100	0.00887	-11.3	20.00
Barium	0.0500	0.0532	6.5	20.00
Beryllium	0.00400	0.00400	-0.08	20.00
Cadmium	0.00400	0.00412	2.9	20.00
Calcium	0.500	0.508	1.7	20.00
Chromium	0.0100	0.0112	12.2	20.00
Cobalt	0.0100	0.0100	0.007	20.00
Lead	0.0100	0.0107	7.2	20.00
Magnesium	0.0500	0.0487	-2.7	20.00
Manganese	0.0100	0.00881	-11.9	20.00
Potassium	2.00	2.00	-0.1	20.00
Selenium	0.0500	0.0519	3.8	20.00
Silver	0.0100	0.0102	2.5	20.00
Sodium	2.00	2.04	2.0	20.00
Thallium	0.0500	0.0419	-16.1	20.00
Vanadium	0.0100	0.00979	-2.1	20.00
Zinc	0.0100	0.0106	6.2	20.00

* Values outside of QC limits

LOW-CONCENTRATION CALIBRATION VERIFICATION

SW-846 6010D

Laboratory: Pace New England
SDG: 24E1437
Client: NYS Division of Environmental Remediation
Project: Tivoli Memorial Park- CO 149634
Calibration: UNASSIGNED
Laboratory ID: S104880-LCV2
Sequence: S104880
Standard ID: 24E0297

ANALYTE	EXPECTED (mg/L)	FOUND (mg/L)	% DRIFT	QC LIMIT
Antimony	0.0100	0.0105	5.1	20.00
Copper	0.0100	0.00889	-11.1	20.00

* Values outside of QC limits

LOW-CONCENTRATION CALIBRATION VERIFICATION

SW-846 6010D

Laboratory: Pace New England
SDG: 24E1437
Client: NYS Division of Environmental Remediation
Project: Tivoli Memorial Park- CO 149634
Calibration: UNASSIGNED
Laboratory ID: S104880-LCV3
Sequence: S104880
Standard ID: 24E0384

ANALYTE	EXPECTED (mg/L)	FOUND (mg/L)	% DRIFT	QC LIMIT
Nickel	0.0200	0.0183	-8.5	20.00

* Values outside of QC limits

LOW-CONCENTRATION CALIBRATION VERIFICATION

SW-846 6010D

Laboratory: Pace New England
SDG: 24E1437
Client: NYS Division of Environmental Remediation
Project: Tivoli Memorial Park- CO 149634
Calibration: UNASSIGNED
Laboratory ID: S104880-LCV4
Sequence: S104880
Standard ID: 24E0780

ANALYTE	EXPECTED (mg/L)	FOUND (mg/L)	% DRIFT	QC LIMIT
Iron	0.500	0.518	3.7	20.00

* Values outside of QC limits

LOW-CONCENTRATION CALIBRATION VERIFICATION

SW-846 6010D

Laboratory: Pace New England
SDG: 24E1437
Client: NYS Division of Environmental Remediation
Project: Tivoli Memorial Park- CO 149634
Calibration: UNASSIGNED
Laboratory ID: S104975-LCV1
Sequence: S104975
Standard ID: 24D0841

ANALYTE	EXPECTED (mg/L)	FOUND (mg/L)	% DRIFT	QC LIMIT
Iron	0.0500	0.0516	3.1	20.00

* Values outside of QC limits

LOW-CONCENTRATION CALIBRATION VERIFICATION

SW-846 6010D

Laboratory: Pace New England
SDG: 24E1437
Client: NYS Division of Environmental Remediation
Project: Tivoli Memorial Park- CO 149634
Calibration: 2400589
Laboratory ID: S105074-LCV1
Sequence: S105074
Standard ID: 24D0841

ANALYTE	EXPECTED (mg/L)	FOUND (mg/L)	% DRIFT	QC LIMIT
Antimony	0.0500	0.0474	-5.2	20.00
Arsenic	0.0100	0.00834	-16.6	20.00
Barium	0.0500	0.0497	-0.6	20.00
Beryllium	0.00400	0.00372	-7.0	20.00
Cadmium	0.00400	0.00381	-4.8	20.00
Calcium	0.500	0.486	-2.9	20.00
Chromium	0.0100	0.0108	7.7	20.00
Cobalt	0.0100	0.00956	-4.4	20.00
Copper	0.0100	0.00904	-9.6	20.00
Iron	0.0500	0.0520	3.9	20.00
Lead	0.0100	0.0111	11.4	20.00
Magnesium	0.0500	0.0483	-3.3	20.00
Manganese	0.0100	0.0102	2.3	20.00
Nickel	0.0100	0.0102	2.3	20.00
Potassium	2.00	1.85	-7.6	20.00
Selenium	0.0500	0.0518	3.5	20.00
Thallium	0.0500	0.0522	4.4	20.00
Vanadium	0.0100	0.0101	1.1	20.00
Zinc	0.0100	0.0114	13.8	20.00

* Values outside of QC limits

FORM 3 - Blank Summary

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ICP2	Calibration:	UNASSIGNED
Sequence:	S104880		

Lab Sample ID	Analyte	Found	Units	RL	C
S104880-ICB1	Aluminum		mg/L	0.050	U
	Antimony		mg/L	0.050	U
	Arsenic		mg/L	0.010	U
	Barium		mg/L	0.050	U
	Beryllium		mg/L	0.0040	U
	Cadmium		mg/L	0.0040	U
	Calcium		mg/L	0.50	U
	Chromium		mg/L	0.010	U
	Cobalt		mg/L	0.010	U
	Copper		mg/L	0.010	U
	Iron		mg/L	0.050	U
	Lead		mg/L	0.010	U
	Magnesium	0.0221	mg/L	0.050	
	Manganese		mg/L	0.010	U
	Nickel		mg/L	0.010	U
	Potassium		mg/L	2.0	U
	Selenium		mg/L	0.050	U
	Silver		mg/L	0.010	U
	Sodium		mg/L	2.0	U
	Thallium		mg/L	0.050	U
	Vanadium		mg/L	0.010	U
	Zinc		mg/L	0.010	U

FORM 3 - Blank Summary

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ICP2	Calibration:	2400563
Sequence:	S104904		

Lab Sample ID	Analyte	Found	Units	RL	C
S104904-CCB1	Aluminum		mg/L	0.50	U
	Arsenic		mg/L	0.10	U
	Barium		mg/L	0.050	U
	Beryllium		mg/L	0.0050	U
	Cadmium		mg/L	0.010	U
	Calcium		mg/L	0.50	U
	Chromium		mg/L	0.020	U
	Cobalt		mg/L	0.050	U
	Copper		mg/L	0.040	U
	Iron		mg/L	0.50	U
	Lead		mg/L	0.015	U
	Magnesium		mg/L	0.50	U
	Manganese		mg/L	0.010	U
	Nickel		mg/L	0.020	U
	Potassium		mg/L	5.0	U
	Selenium		mg/L	0.10	U
	Silver		mg/L	0.010	U
	Sodium		mg/L	5.0	U
	Vanadium		mg/L	0.020	U
	Zinc		mg/L	0.020	U
B374725-BLK1	Aluminum		mg/Kg wet	16	U
	Arsenic		mg/Kg wet	3.3	U
	Barium		mg/Kg wet	1.6	U
	Beryllium		mg/Kg wet	0.16	U
	Cadmium		mg/Kg wet	0.33	U
	Calcium		mg/Kg wet	16	U
	Chromium		mg/Kg wet	0.66	U
	Cobalt		mg/Kg wet	1.6	U
	Copper		mg/Kg wet	1.3	U
	Iron		mg/Kg wet	16	U
	Lead		mg/Kg wet	0.49	U
	Magnesium		mg/Kg wet	16	U
	Manganese		mg/Kg wet	0.33	U

FORM 3 - Blank Summary

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ICP2	Calibration:	2400563
Sequence:	S104904		

Lab Sample ID	Analyte	Found	Units	RL	C
B374725-BLK1	Nickel		mg/Kg wet	0.66	U
	Potassium		mg/Kg wet	160	U
	Selenium		mg/Kg wet	3.3	U
	Silver		mg/Kg wet	0.33	U
	Sodium		mg/Kg wet	160	U
	Vanadium		mg/Kg wet	0.66	U
	Zinc		mg/Kg wet	0.66	U
S104904-CCB2	Aluminum		mg/L	0.50	U
	Arsenic		mg/L	0.10	U
	Barium		mg/L	0.050	U
	Beryllium		mg/L	0.0050	U
	Cadmium		mg/L	0.010	U
	Calcium		mg/L	0.50	U
	Chromium		mg/L	0.020	U
	Cobalt		mg/L	0.050	U
	Copper		mg/L	0.040	U
	Iron		mg/L	0.50	U
	Lead		mg/L	0.015	U
	Magnesium		mg/L	0.50	U
	Manganese		mg/L	0.010	U
	Nickel		mg/L	0.020	U
	Potassium		mg/L	5.0	U
	Selenium		mg/L	0.10	U
	Silver		mg/L	0.010	U
	Sodium		mg/L	5.0	U
	Vanadium		mg/L	0.020	U
	Zinc		mg/L	0.020	U
S104904-CCB3	Aluminum		mg/L	0.50	U
	Arsenic		mg/L	0.10	U
	Barium		mg/L	0.050	U
	Beryllium		mg/L	0.0050	U
	Cadmium		mg/L	0.010	U
	Calcium		mg/L	0.50	U

FORM 3 - Blank Summary

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ICP2	Calibration:	2400563
Sequence:	S104904		

Lab Sample ID	Analyte	Found	Units	RL	C
S104904-CCB3	Chromium		mg/L	0.020	U
	Cobalt		mg/L	0.050	U
	Copper		mg/L	0.040	U
	Iron		mg/L	0.50	U
	Lead		mg/L	0.015	U
	Magnesium		mg/L	0.50	U
	Manganese		mg/L	0.010	U
	Nickel		mg/L	0.020	U
	Potassium		mg/L	5.0	U
	Selenium		mg/L	0.10	U
	Silver		mg/L	0.010	U
	Sodium		mg/L	5.0	U
	Vanadium		mg/L	0.020	U
	Zinc		mg/L	0.020	U
S104904-CCB4	Aluminum		mg/L	0.50	U
	Arsenic		mg/L	0.10	U
	Barium		mg/L	0.050	U
	Beryllium		mg/L	0.0050	U
	Cadmium		mg/L	0.010	U
	Calcium		mg/L	0.50	U
	Chromium		mg/L	0.020	U
	Cobalt		mg/L	0.050	U
	Copper		mg/L	0.040	U
	Iron		mg/L	0.50	U
	Lead		mg/L	0.015	U
	Magnesium		mg/L	0.50	U
	Manganese		mg/L	0.010	U
	Nickel		mg/L	0.020	U
	Potassium		mg/L	5.0	U
	Selenium		mg/L	0.10	U
	Silver		mg/L	0.010	U
	Sodium		mg/L	5.0	U
	Vanadium		mg/L	0.020	U

FORM 3 - Blank Summary

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ICP2	Calibration:	2400563
Sequence:	S104904		

Lab Sample ID	Analyte	Found	Units	RL	C
S104904-CCB4	Zinc		mg/L	0.020	U
S104904-CCB5	Aluminum		mg/L	0.50	U
	Arsenic		mg/L	0.10	U
	Barium		mg/L	0.050	U
	Beryllium		mg/L	0.0050	U
	Cadmium		mg/L	0.010	U
	Calcium		mg/L	0.50	U
	Chromium		mg/L	0.020	U
	Cobalt		mg/L	0.050	U
	Copper		mg/L	0.040	U
	Iron		mg/L	0.50	U
	Lead		mg/L	0.015	U
	Magnesium		mg/L	0.50	U
	Manganese		mg/L	0.010	U
	Nickel		mg/L	0.020	U
	Potassium		mg/L	5.0	U
	Selenium		mg/L	0.10	U
	Silver		mg/L	0.010	U
	Sodium		mg/L	5.0	U
	Vanadium		mg/L	0.020	U
	Zinc		mg/L	0.020	U
S104904-CCB6	Aluminum		mg/L	0.50	U
	Arsenic		mg/L	0.10	U
	Barium		mg/L	0.050	U
	Beryllium		mg/L	0.0050	U
	Cadmium		mg/L	0.010	U
	Calcium		mg/L	0.50	U
	Chromium		mg/L	0.020	U
	Cobalt		mg/L	0.050	U
	Copper		mg/L	0.040	U
	Iron		mg/L	0.50	U
	Lead		mg/L	0.015	U
	Magnesium		mg/L	0.50	U

FORM 3 - Blank Summary

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ICP2	Calibration:	2400563
Sequence:	S104904		

Lab Sample ID	Analyte	Found	Units	RL	C
S104904-CCB6	Manganese		mg/L	0.010	U
	Nickel		mg/L	0.020	U
	Potassium		mg/L	5.0	U
	Selenium		mg/L	0.10	U
	Silver		mg/L	0.010	U
	Sodium		mg/L	5.0	U
	Vanadium		mg/L	0.020	U
	Zinc		mg/L	0.020	U
S104904-CCB7	Aluminum		mg/L	0.50	U
	Arsenic		mg/L	0.10	U
	Barium		mg/L	0.050	U
	Beryllium		mg/L	0.0050	U
	Cadmium		mg/L	0.010	U
	Calcium		mg/L	0.50	U
	Chromium		mg/L	0.020	U
	Cobalt		mg/L	0.050	U
	Copper		mg/L	0.040	U
	Iron		mg/L	0.50	U
	Lead		mg/L	0.015	U
	Magnesium		mg/L	0.50	U
	Manganese		mg/L	0.010	U
	Nickel		mg/L	0.020	U
	Potassium		mg/L	5.0	U
	Selenium		mg/L	0.10	U
	Silver		mg/L	0.010	U
	Sodium		mg/L	5.0	U
	Vanadium		mg/L	0.020	U
	Zinc		mg/L	0.020	U

FORM 3 - Blank Summary

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ICP3	Calibration:	UNASSIGNED
Sequence:	S104975		

Lab Sample ID	Analyte	Found	Units	RL	C
S104975-ICB1	Iron		mg/L	0.50	U
S104975-CCB1	Iron		mg/L	0.50	U

FORM 3 - Blank Summary

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ICP4	Calibration:	2400589
Sequence:	S105074		

Lab Sample ID	Analyte	Found	Units	RL	C
S105074-ICB1	Antimony		mg/L	0.050	U
	Arsenic		mg/L	0.010	U
	Barium		mg/L	0.050	U
	Beryllium		mg/L	0.0040	U
	Cadmium		mg/L	0.0040	U
	Calcium		mg/L	0.50	U
	Chromium		mg/L	0.010	U
	Cobalt		mg/L	0.010	U
	Copper		mg/L	0.010	U
	Iron		mg/L	0.050	U
	Lead		mg/L	0.010	U
	Magnesium		mg/L	0.050	U
	Manganese		mg/L	0.010	U
	Nickel		mg/L	0.010	U
	Potassium		mg/L	2.0	U
	Selenium		mg/L	0.050	U
	Thallium		mg/L	0.050	U
	Vanadium		mg/L	0.010	U
	Zinc		mg/L	0.010	U

FORM 3 - Blank Summary

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ICP4	Calibration:	2400589
Sequence:	S105084		

Lab Sample ID	Analyte	Found	Units	RL	C
S105084-CCB1	Antimony		mg/L	0.050	U
	Thallium		mg/L	0.050	U
B374725-BLK2	Antimony		mg/Kg wet	1.6	U
	Thallium		mg/Kg wet	1.6	U
S105084-CCB2	Antimony		mg/L	0.050	U
	Thallium		mg/L	0.050	U
S105084-CCB3	Antimony		mg/L	0.050	U
	Thallium		mg/L	0.050	U
S105084-CCB4	Antimony		mg/L	0.050	U
	Thallium		mg/L	0.050	U

INTERFERENCE CHECK SAMPLE

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ICP2	Calibration:	2400563
Sequence:	S104904		

Lab Sample ID	Analyte	RL	True	Found	%R	Units
S104904-IFA1	Aluminum	0.50	250	252.68	101	mg/L
	Arsenic	0.10		-0.01		mg/L
	Barium	0.050		0.00		mg/L
	Beryllium	0.0050		0.00		mg/L
	Cadmium	0.010		0.00		mg/L
	Calcium	0.50	250	240.38	96.2	mg/L
	Chromium	0.020		0.00		mg/L
	Cobalt	0.050		0.00		mg/L
	Copper	0.040		0.01		mg/L
	Iron	0.50	100	95.87	95.9	mg/L
	Lead	0.015		0.01		mg/L
	Magnesium	0.50	250	230.30	92.1	mg/L
	Manganese	0.010		0.00		mg/L
	Nickel	0.020		0.01		mg/L
	Potassium	5.0		-0.01		mg/L
	Selenium	0.10		-0.05		mg/L
	Silver	0.010		-0.01		mg/L
	Sodium	5.0		0.04		mg/L
	Vanadium	0.020		0.00		mg/L
	Zinc	0.020		0.00		mg/L
S104904-IFB1	Aluminum	0.50	250	257.63	103	mg/L
	Arsenic	0.10	0.200	0.19	95.6	mg/L
	Barium	0.050	1.00	1.00	100	mg/L
	Beryllium	0.0050	1.00	1.03	103	mg/L
	Cadmium	0.010	2.00	2.08	104	mg/L
	Calcium	0.50	250	242.88	97.2	mg/L
	Chromium	0.020	1.00	1.00	99.7	mg/L
	Cobalt	0.050	1.00	0.94	93.7	mg/L
	Copper	0.040	1.00	1.08	108	mg/L
	Iron	0.50	100	96.87	96.9	mg/L
	Lead	0.015	0.100	0.10	104	mg/L
	Magnesium	0.50	250	232.33	92.9	mg/L
	Manganese	0.010	1.00	0.96	95.7	mg/L
	Nickel	0.020	2.00	1.88	93.8	mg/L
	Potassium	5.0		0.00		mg/L

INTERFERENCE CHECK SAMPLE

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ICP2	Calibration:	2400563
Sequence:	S104904		

Lab Sample ID	Analyte	RL	True	Found	%R	Units
S104904-IFB1	Selenium	0.10	0.500	0.51	103	mg/L
	Silver	0.010	0.400	0.42	106	mg/L
	Sodium	5.0		0.04		mg/L
	Vanadium	0.020	1.00	0.99	99.4	mg/L
	Zinc	0.020	2.00	1.90	95.2	mg/L
S104904-IFA2	Aluminum	0.50	250	253.73	101	mg/L
	Arsenic	0.10		-0.01		mg/L
	Barium	0.050		0.00		mg/L
	Beryllium	0.0050		0.00		mg/L
	Cadmium	0.010		0.00		mg/L
	Calcium	0.50	250	251.10	100	mg/L
	Chromium	0.020		0.00		mg/L
	Cobalt	0.050		0.00		mg/L
	Copper	0.040		0.00		mg/L
	Iron	0.50	100	97.09	97.1	mg/L
	Lead	0.015		0.01		mg/L
	Magnesium	0.50	250	237.04	94.8	mg/L
	Manganese	0.010		0.00		mg/L
	Nickel	0.020		0.00		mg/L
	Potassium	5.0		0.06		mg/L
	Selenium	0.10		-0.03		mg/L
	Silver	0.010		0.00		mg/L
	Sodium	5.0		0.04		mg/L
	Vanadium	0.020		0.00		mg/L
	Zinc	0.020		0.00		mg/L
S104904-IFB2	Aluminum	0.50	250	249.50	99.8	mg/L
	Arsenic	0.10	0.200	0.19	92.8	mg/L
	Barium	0.050	1.00	1.01	101	mg/L
	Beryllium	0.0050	1.00	1.00	99.9	mg/L
	Cadmium	0.010	2.00	2.09	104	mg/L
	Calcium	0.50	250	246.36	98.5	mg/L
	Chromium	0.020	1.00	1.00	99.9	mg/L
	Cobalt	0.050	1.00	0.94	93.8	mg/L
	Copper	0.040	1.00	1.00	100	mg/L
	Iron	0.50	100	96.20	96.2	mg/L

INTERFERENCE CHECK SAMPLE

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ICP2	Calibration:	2400563
Sequence:	S104904		

Lab Sample ID	Analyte	RL	True	Found	%R	Units
S104904-IFB2	Lead	0.015	0.100	0.10	104	mg/L
	Magnesium	0.50	250	231.80	92.7	mg/L
	Manganese	0.010	1.00	0.96	95.7	mg/L
	Nickel	0.020	2.00	1.84	92.1	mg/L
	Potassium	5.0		0.02		mg/L
	Selenium	0.10	0.500	0.51	103	mg/L
	Silver	0.010	0.400	0.38	94.6	mg/L
	Sodium	5.0		0.04		mg/L
	Vanadium	0.020	1.00	1.02	102	mg/L
	Zinc	0.020	2.00	1.95	97.4	mg/L

INTERFERENCE CHECK SAMPLE

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ICP3	Calibration:	UNASSIGNED
Sequence:	S104975		

Lab Sample ID	Analyte	RL	True	Found	%R	Units
S104975-IFA1	Iron	0.50	100	98.29	98.3	mg/L
S104975-IFB1	Iron	0.50	100	98.72	98.7	mg/L
S104975-IFA2	Iron	0.50	100	102.80	103	mg/L
S104975-IFB2	Iron	0.50	100	101.47	101	mg/L

INTERFERENCE CHECK SAMPLE

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	ICP4	Calibration:	2400589
Sequence:	S105084		

Lab Sample ID	Analyte	RL	True	Found	%R	Units
S105084-IFA1	Antimony	0.050		0.00		mg/L
	Thallium	0.050		0.00		mg/L
S105084-IFB1	Antimony	0.050	1.20	1.14	94.8	mg/L
	Thallium	0.050	0.200	0.23	113	mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SB1A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Analysis:	SW-846 6010D
Batch:	B374725	Preparation:	SW-846 3050B
% Solids:	72.51	Laboratory ID:	B374725-MS1
Column:		Sample Lab ID:	24E1437-06

ANALYTE	SPIKE ADDED (mg/Kg dry)	SAMPLE CONCENTRATION (mg/Kg dry)	MS CONCENTRATION (mg/Kg dry)	MS % REC.	QC LIMITS REC.
Aluminum	21.9	15600	15900 MS-19	1330	75 - 125
Arsenic	21.9	5.42	23.6	83.2	75 - 125
Barium	21.9	90.6	105 MS-22	67.4	75 - 125
Beryllium	21.9	0.692	20.8	91.6	75 - 125
Cadmium	21.9	0.262	20.3	91.7	75 - 125
Calcium	175	5270	8170 MS-19	1660	75 - 125
Chromium	21.9	17.1	36.7	89.3	75 - 125
Cobalt	21.9	11.3	29.9	84.8	75 - 125
Copper	43.8	33.7	78.9	103	75 - 125
Lead	21.9	41.0	57.9	77.1	75 - 125
Magnesium	175	4240	4420	104	75 - 125
Manganese	21.9	565	571 MS-19	30.2	75 - 125
Nickel	21.9	24.2	43.0	86.0	75 - 125
Potassium	175	887	1010 MS-22	71.9	75 - 125
Selenium	21.9	ND	17.4	79.3	75 - 125
Silver	21.9	ND	19.9	90.7	75 - 125
Sodium	175	ND	215 J	123	75 - 125
Vanadium	21.9	21.9	41.8	90.7	75 - 125
Zinc	43.8	88.0	124	82.6	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SB1A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Analysis:	SW-846 6010D
Batch:	B374725	Preparation:	SW-846 3050B
% Solids:	72.51	Laboratory ID:	B374725-MSD1
Column:		Sample Lab ID:	24E1437-06

ANALYTE	SPIKE ADDED (mg/Kg dry)	MSD CONCENTRATION (mg/Kg dry)	MSD % REC. #		% RPD		QC LIMITS RPD	QC LIMITS REC.
Aluminum	21.8	16300 MS-19	3570		3.02		35	75 - 125
Arsenic	21.8	23.8	84.3		0.814		35	75 - 125
Barium	21.8	110	86.6		3.88		35	75 - 125
Beryllium	21.8	21.9	97.1		5.43		35	75 - 125
Cadmium	21.8	21.1	95.3		3.57		35	75 - 125
Calcium	175	3920 MS-19	-774		70.4	*	35	75 - 125
Chromium	21.8	38.9	99.6		5.83		35	75 - 125
Cobalt	21.8	31.3	91.8		4.85		35	75 - 125
Copper	43.7	81.0	108		2.67		35	75 - 125
Lead	21.8	58.5	80.3		1.13		35	75 - 125
Magnesium	175	4410	98.8		0.218		35	75 - 125
Manganese	21.8	529 MS-19	-164		7.73		35	75 - 125
Nickel	21.8	44.3	92.0		2.92		35	75 - 125
Potassium	175	1040	87.8		2.70		35	75 - 125
Selenium	21.8	18.7	85.6		7.46		35	75 - 125
Silver	21.8	20.4	93.5		2.84		35	75 - 125
Sodium	175	221 MS-22	126	N	2.69	N	35	75 - 125
Vanadium	21.8	43.9	101		4.99		35	75 - 125
Zinc	43.7	131	98.3		5.31		35	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SB1A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Analysis:	SW-846 6010D
Batch:	B374725	Preparation:	SW-846 3050B
% Solids:	72.51	Laboratory ID:	B374725-MS3
Column:		Sample Lab ID:	24E1437-06

ANALYTE	SPIKE ADDED (mg/Kg dry)	SAMPLE CONCENTRATION (mg/Kg dry)	MS CONCENTRATION (mg/Kg dry)	MS % REC.	QC LIMITS REC.
Iron	175	29300	31800 MS-19	1420	75 - 125

ANALYTE	SPIKE ADDED (mg/Kg dry)	MSD CONCENTRATION (mg/Kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
Iron	175	31400 MS-19	1230	1.08	35	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SB1A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Analysis:	SW-846 6010D
Batch:	B374725	Preparation:	SW-846 3050B
% Solids:	72.51	Laboratory ID:	B374725-MS4
Column:		Sample Lab ID:	24E1437-06

ANALYTE	SPIKE ADDED (mg/Kg dry)	SAMPLE CONCENTRATION (mg/Kg dry)	MS CONCENTRATION (mg/Kg dry)	MS % REC.		QC LIMITS REC.
Antimony	21.9	ND	1.97 Z-01, J	9.00	N	75 - 125
Thallium	21.9	ND	22.9	104		75 - 125

ANALYTE	SPIKE ADDED (mg/Kg dry)	MSD CONCENTRATION (mg/Kg dry)	MSD % REC. #		% RPD		QC LIMITS RPD	QC LIMITS REC.
Antimony	21.8	1.92 Z-01, J	8.80	N	2.41	N	35	75 - 125
Thallium	21.8	22.3	102		2.41		35	75 - 125

POST DIGEST SPIKE SAMPLE RECOVERY

24E1437-06

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	B374725-PS1
Batch:	B374725	Analysis:	SW-846 6010D
Preparation:	SW-846 3050B	Initial/Final:	1.537 g / 50 mL

Analyte	Spike Sample Result (SSR) (mg/L)	Sample Result (SR) (mg/L)	Spike Added (SA) (mg/L)	%R	Control Limit %R
Aluminum	334	347	2.00	-631	75 - 125
Antimony	1.79	ND	2.00	89.4	75 - 125
Arsenic	1.85	0.121	2.00	86.5	75 - 125
Barium	3.78	2.02	2.00	88.0	75 - 125
Beryllium	1.89	0.0154	2.00	94.0	75 - 125
Cadmium	1.90	0.00584	2.00	94.7	75 - 125
Calcium	128	117	16.0	63.4	75 - 125
Chromium	2.24	0.382	2.00	92.8	75 - 125
Cobalt	2.01	0.252	2.00	87.9	75 - 125
Copper	4.86	0.750	4.00	103	75 - 125
Lead	2.55	0.914	2.00	81.7	75 - 125
Magnesium	106	94.5	16.0	69.6	75 - 125
Manganese	13.7	12.6	2.00	56.5	75 - 125
Nickel	2.25	0.540	2.00	85.6	75 - 125
Potassium	33.8	19.8	16.0	87.7	75 - 125
Selenium	1.79	ND	2.00	89.5	75 - 125
Silver	1.99	ND	2.00	99.3	75 - 125
Sodium	16.2	ND	16.0	93.7	75 - 125
Vanadium	2.40	0.489	2.00	95.6	75 - 125
Zinc	5.42	1.96	4.00	86.6	75 - 125

POST DIGEST SPIKE SAMPLE RECOVERY

24E1437-06

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	B374725-PS3
Batch:	B374725	Analysis:	SW-846 6010D
Preparation:	SW-846 3050B	Initial/Final:	1.537 g / 50 mL

Analyte	Spike Sample Result (SSR) (mg/L)	Sample Result (SR) (mg/L)	Spike Added (SA) (mg/L)	%R	Control Limit %R
Iron	798	653	16.0	908	75 - 125

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Preparation:	SW-846 3050B
Batch:	B374725	Laboratory ID:	B374725-BS1
Column:		Initial/Final:	0.5038 g / 50 mL

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCS CONCENTRATION (mg/Kg wet)	LCS % REC.		QC LIMITS REC.
Aluminum	6780	5600	82.7		52.9 - 147.2
Arsenic	311	298	95.9		81.7 - 118.3
Barium	304	332	109		82.8 - 117.2
Beryllium	169	178	105		82.8 - 117.2
Cadmium	212	216	102		82.5 - 117.9
Calcium	5170	5320	103		82 - 117.8
Chromium	180	192	107		81.1 - 118.3
Cobalt	81.6	84.8	104		83.2 - 116.9
Copper	205	222	108		82.9 - 117.1
Iron	6510	6070	93.3		57.8 - 142.2
Lead	92.8	92.9	100		81.8 - 118.5
Magnesium	1700	1650	96.9		75.3 - 124.1
Manganese	531	640	121	*	80.8 - 119.2
Nickel	313	319	102		82.4 - 117.6
Potassium	1370	1240	90.2		72.3 - 127.7
Selenium	165	167	101		80.6 - 119.4
Silver	82.4	86.5	105		79.5 - 120.4
Sodium	486	498	102		74.3 - 125.7
Vanadium	103	115	112		78 - 122.3
Zinc	166	176	106		80.1 - 120.5

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCSD CONCENTRATION (mg/Kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aluminum	6780	5410	79.8	3.51	30	52.9 - 147.2
Arsenic	311	279	89.6	6.74	30	81.7 - 118.3
Barium	304	298	98.0	10.9	20	82.8 - 117.2
Beryllium	169	164	97.0	7.95	30	82.8 - 117.2
Cadmium	212	202	95.2	6.69	20	82.5 - 117.9
Calcium	5170	5090	98.5	4.34	30	82 - 117.8
Chromium	180	179	99.4	6.92	30	81.1 - 118.3
Cobalt	81.6	80.1	98.1	5.76	20	83.2 - 116.9
Copper	205	208	101	6.63	30	82.9 - 117.1
Iron	6510	5800	89.1	4.60	30	57.8 - 142.2
Lead	92.8	88.5	95.4	4.89	30	81.8 - 118.5
Magnesium	1700	1600	93.9	3.06	30	75.3 - 124.1
Manganese	531	528	99.4	19.3	30	80.8 - 119.2

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Preparation:	SW-846 3050B
Batch:	B374725	Laboratory ID:	B374725-BSD1
Column:		Initial/Final:	0.5021 g / 50 mL

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCSD CONCENTRATION (mg/Kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Nickel	313	300	95.8	6.08	30	82.4 - 117.6
Potassium	1370	1180	86.2	4.54	30	72.3 - 127.7
Selenium	165	155	93.7	7.81	30	80.6 - 119.4
Silver	82.4	83.2	101	3.89	30	79.5 - 120.4
Sodium	486	467	96.1	6.36	30	74.3 - 125.7
Vanadium	103	106	103	8.40	30	78 - 122.3
Zinc	166	169	102	3.55	30	80.1 - 120.5

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Preparation:	SW-846 3050B
Batch:	B374725	Laboratory ID:	B374725-BS2
Column:		Initial/Final:	0.5038 g / 50 mL

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCS CONCENTRATION (mg/Kg wet)	LCS % REC.	QC LIMITS REC.
Antimony	127	106	83.1	2 - 200.8
Thallium	205	214	104	81 - 119.5

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCSD CONCENTRATION (mg/Kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Antimony	127	104	82.0	1.27	30	2 - 200.8
Thallium	205	203	99.0	5.11	30	81 - 119.5

SERIAL DILUTION

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	B374725-SRL1
Sequence:	B374725	Source:	SB1A

Analyte	Initial Sample Result (I)	Serial Dilution Result (S)	% Difference	Q	QC Limits % Difference
Beryllium	0.692	0.734	N/A		20.00
Lead	41.0	48.6	17.0		20.00
Magnesium	4240	4700	10.3		20.00
Manganese	565	631	11.2		20.00
Nickel	24.2	27.6	13.1		20.00
Potassium	887	952	N/A		20.00
Silver	ND	ND	N/A		20.00
Sodium	ND	ND	N/A		20.00
Aluminum	15600	16500	5.63		20.00
Barium	90.6	99.1	8.90		20.00
Selenium	ND	ND	N/A		20.00
Cadmium	ND	ND	N/A		20.00
Chromium	17.1	18.2	5.83		20.00
Cobalt	11.3	12.8	12.9		20.00
Copper	33.7	35.6	5.55		20.00
Vanadium	21.9	23.5	6.73		20.00
Zinc	88.0	100	13.1		20.00
Calcium	5270	5810	9.74		20.00
Arsenic	5.42	5.53	N/A		20.00

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Pace New England
Work Order: 24E1437
Client: NYS Division of Environmental Remediation
Matrix: Soil
Instrument: ICP2

Analyte	MDL	MRL	Units	Method
Aluminum	7.9	25	mg/Kg	SW-846 6010D
Arsenic	0.70	5.0	mg/Kg	SW-846 6010D
Barium	0.53	2.5	mg/Kg	SW-846 6010D
Beryllium	0.076	0.25	mg/Kg	SW-846 6010D
Cadmium	0.24	0.50	mg/Kg	SW-846 6010D
Calcium	13	25	mg/Kg	SW-846 6010D
Chromium	0.63	1.0	mg/Kg	SW-846 6010D
Cobalt	0.42	2.5	mg/Kg	SW-846 6010D
Copper	1.8	2.0	mg/Kg	SW-846 6010D
Iron	12	25	mg/Kg	SW-846 6010D
Lead	0.52	0.75	mg/Kg	SW-846 6010D
Magnesium	5.8	25	mg/Kg	SW-846 6010D
Manganese	0.28	0.50	mg/Kg	SW-846 6010D
Nickel	0.69	1.0	mg/Kg	SW-846 6010D
Potassium	62	250	mg/Kg	SW-846 6010D
Selenium	1.2	5.0	mg/Kg	SW-846 6010D
Silver	0.31	0.50	mg/Kg	SW-846 6010D
Sodium	74	250	mg/Kg	SW-846 6010D
Vanadium	0.55	1.0	mg/Kg	SW-846 6010D
Zinc	0.88	1.0	mg/Kg	SW-846 6010D

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Pace New England
Work Order: 24E1437
Client: NYS Division of Environmental Remediation
Matrix: Soil
Instrument: ICP3

Analyte	MDL	MRL	Units	Method
Iron	12	25	mg/Kg	SW-846 6010D

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Pace New England
Work Order: 24E1437
Client: NYS Division of Environmental Remediation
Matrix: Soil
Instrument: ICP4

Analyte	MDL	MRL	Units	Method
Antimony	0.67	2.5	mg/Kg	SW-846 6010D
Thallium	0.80	2.5	mg/Kg	SW-846 6010D

PREPARATION BATCH SUMMARY

SW-846 6010D

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Batch:	B374725 Batch Matrix: Soil	Preparation:	SW-846 3050B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
CG-1	24E1437-01	05/17/24 01:13	1.50	50.00
CG-2	24E1437-02	05/17/24 01:13	1.57	50.00
B1	24E1437-03	05/17/24 01:13	1.54	50.00
B1A	24E1437-04	05/17/24 01:13	1.55	50.00
SB1	24E1437-05	05/17/24 01:13	1.52	50.00
SB1A	24E1437-06	05/17/24 01:13	1.54	50.00
SB2	24E1437-07	05/17/24 01:13	1.52	50.00
SB2A	24E1437-08	05/17/24 01:13	1.51	50.00
SB3	24E1437-09	05/17/24 01:13	1.55	50.00
SB3A	24E1437-10	05/17/24 01:13	1.52	50.00
SB4	24E1437-11	05/17/24 01:13	1.59	50.00
SB4A	24E1437-12	05/17/24 01:13	1.59	50.00
SB5	24E1437-13	05/17/24 01:13	1.50	50.00
SB5A	24E1437-14	05/17/24 01:13	1.50	50.00
SB6	24E1437-15	05/17/24 01:13	1.59	50.00
SB6A	24E1437-16	05/17/24 01:13	1.58	50.00
SB7	24E1437-17	05/17/24 01:13	1.56	50.00
SB7A	24E1437-18	05/17/24 01:13	1.55	50.00
DUP	24E1437-19	05/17/24 01:13	1.51	50.00
Blank	B374725-BLK1	05/17/24 12:06	1.52	50.00
Blank	B374725-BLK2	05/17/24 12:06	1.52	50.00
LCS	B374725-BS1	05/17/24 12:06	0.50	50.00
LCS	B374725-BS2	05/17/24 12:06	0.50	50.00
LCS Dup	B374725-BSD1	05/17/24 12:06	0.50	50.00
LCS Dup	B374725-BSD2	05/17/24 12:06	0.50	50.00
SB1A	B374725-MS1	05/17/24 12:06	1.58	50.00
SB1A	B374725-MS3	05/17/24 12:06	1.58	50.00
SB1A	B374725-MS4	05/17/24 12:06	1.58	50.00
SB1A	B374725-MSD1	05/17/24 12:06	1.58	50.00
SB1A	B374725-MSD3	05/17/24 12:06	1.58	50.00
SB1A	B374725-MSD4	05/17/24 12:06	1.58	50.00
SB1A	B374725-SRL1	05/17/24 12:06	1.54	50.00

PREPARATION BENCH SHEET
B374725

Prepared: 05/17/24 12:06

Printed: 5/31/2024 1:00:51PM

Pace New England

Matrix: Soil

Prepared using: METALS - SW-846 3050B

Sample ID	Sample Name	Container	AMT DIGESTED mL g L	Final Vol (mL)	Due	TAT	Spike Amount uL 1 | 2	Comments	Priority
B374725-BLK1	Blank		1.517	50			|		
B374725-BLK2	Blank		1.517	50			|	Added 5/28/2024 by	
B374725-BS1	LCS		0.5038	50			503.8 |		
B374725-BS2	LCS		0.5038	50			503.8 |	Added 5/28/2024 by	
B374725-BSD1	LCS Dup		0.5021	50			502.1 |		
B374725-BSD2	LCS Dup		0.5021	50			502.1 |	Added 5/28/2024 by	
B374725-MS1	Matrix Spike [24E1437-06]		1.575	50			250 |		
B374725-MS2	[24E1437-06]		1.575	50			250 |	Added 5/24/2024 by	
B374725-MS3	Matrix Spike [24E1437-06]		1.575	50			250 |	Added 5/24/2024 by	
B374725-MS4	Matrix Spike [24E1437-06]		1.575	50			250 |	Added 5/28/2024 by	
B374725-MSD1	Matrix Spike Dup [24E1437-06]		1.578	50			250 |		
B374725-MSD2	[24E1437-06]		1.578	50			250 |	Added 5/24/2024 by	
B374725-MSD3	Matrix Spike Dup [24E1437-06]		1.578	50			250 |	Added 5/24/2024 by	
B374725-MSD4	Matrix Spike Dup [24E1437-06]		1.578	50			250 |	Added 5/28/2024 by	
B374725-PS1	Post Spike [24E1437-06]		1.537	50			1000 |		
B374725-PS2	[24E1437-06]		1.537	50			1000 |	Added 5/24/2024 by	
B374725-PS3	Post Spike [24E1437-06]		1.537	50			1000 |	Added 5/24/2024 by	
B374725-SRL1	Dilution Check [24E1437-06]		1.537	50			|		
B374725-SRL2	Dilution Check [24E1437-06]		1.537	50			|	Added 5/24/2024 by	
24E1437-01	CG-1	A	1.5	50	05/28/24	11		CAT B	1 - Rush
24E1437-02	CG-2	A	1.565	50	05/28/24	11		CAT B	1 - Rush
24E1437-03	B1	A	1.537	50	05/28/24	11		CAT B	1 - Rush
24E1437-04	B1A	A	1.551	50	05/28/24	11		CAT B	1 - Rush
24E1437-05	SB1	A	1.515	50	05/28/24	11		CAT B	1 - Rush
24E1437-06	SB1A	A	1.537	50	05/28/24	11		CAT B	1 - Rush
24E1437-07	SB2	A	1.524	50	05/28/24	11		CAT B	1 - Rush
24E1437-08	SB2A	A	1.505	50	05/28/24	11		CAT B	1 - Rush
24E1437-09	SB3	A	1.55	50	05/28/24	11		CAT B	1 - Rush
24E1437-10	SB3A	A	1.522	50	05/28/24	11		CAT B	1 - Rush
24E1437-11	SB4	A	1.585	50	05/28/24	11		CAT B	1 - Rush
24E1437-12	SB4A	A	1.593	50	05/28/24	11		CAT B	1 - Rush
24E1437-13	SB5	A	1.503	50	05/28/24	11		CAT B	1 - Rush

Prepared By Date

Preparation Reviewed By Date

PREPARATION BENCH SHEET
B374725

Prepared: 05/17/24 01:13

Printed: 5/31/2024 1:00:51PM

Pace New England

Matrix: Soil

Prepared using: METALS - SW-846 3050B

Sample ID	Sample Name	Container	AMT DIGESTED mL g L	Final Vol (mL)	Due	TAT	Spike Amount uL 1 | 2	Comments	Priority
24E1437-14	SB5A	A	1.5	50	05/28/24	11		CAT B	1 - Rush
24E1437-15	SB6	A	1.585	50	05/28/24	11		CAT B	1 - Rush
24E1437-16	SB6A	A	1.577	50	05/28/24	11		CAT B	1 - Rush
24E1437-17	SB7	A	1.557	50	05/28/24	11		CAT B	1 - Rush
24E1437-18	SB7A	A	1.547	50	05/28/24	11		CAT B	1 - Rush
24E1437-19	DUP	A	1.51	50	05/28/24	11		CAT B	1 - Rush

Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb
Ag															

Standard(s):

23I0873	QC Standard CUSTOM BLEND	1000 uI 250 uL
24B0961	SRM D123-540	502.1 u 503.8 u

Standard ID#	Description
24B0422	Hydrogen Peroxide (Fisher) 30% C
24D0122	Resin Pellets Solid Matrix
24D0157	Ultimate Cup, 50mL Digestion tube
24D0298	Nitric Acid 69-70%
24E0519	1:1 HCl

EPPENDORF #M21639E
SR3 @ 95C
B-MET 002,003

SPIKED DML 05-17-24
WITNESSED AGG 05-17-24

DIGESTION START 1440
DURATION 1.25 HR

BROUGHT TO VOLUME DML 05-18-24
VERIFIEDMJH 05-18-24

6010 SOIL

Prepared By Date

Preparation Reviewed By Date

PREPARATION BENCH SHEET
B374725

Prepared: 05/17/24 01:13

Printed: 5/31/2024 1:00:51PM

Pace New England

Matrix: Soil

Prepared using: METALS - SW-846 3050B

Sample ID	Sample Name	Container	AMT DIGESTED mL g L	Final Vol (mL)	Due TAT	Spike Amount uL 1 | 2	Comments	Priority
24E1437-18	Vanadium 6010 Total	CAT B						
24E1437-18	Zinc 6010 Total	CAT B						
24E1437-19	Aluminum 6010 Total	CAT B						
24E1437-19	Antimony 6010 Total	CAT B						
24E1437-19	Arsenic 6010 Total	CAT B						
24E1437-19	Barium 6010 Total	CAT B						
24E1437-19	Beryllium 6010 Total	CAT B						
24E1437-19	Cadmium 6010 Total	CAT B						
24E1437-19	Calcium 6010 Total	CAT B						
24E1437-19	Chromium 6010 Total	CAT B						
24E1437-19	Cobalt 6010 Total	CAT B						
24E1437-19	Copper 6010 Total	CAT B						
24E1437-19	Iron 6010 Total	CAT B						
24E1437-19	Lead 6010 Total	CAT B						
24E1437-19	Magnesium 6010 Total	CAT B						
24E1437-19	Manganese 6010 Total	CAT B						
24E1437-19	Nickel 6010 Total	CAT B						
24E1437-19	Selenium 6010 Total	CAT B						
24E1437-19	Sodium 6010 Total	CAT B						
24E1437-19	Vanadium 6010 Total	CAT B						
24E1437-02	Beryllium 6010 Total	CAT B						
24E1437-02	Cobalt 6010 Total	CAT B						
24E1437-02	Calcium 6010 Total	CAT B						
24E1437-02	Iron 6010 Total	CAT B						
24E1437-19	Potassium 6010 Total	CAT B						
24E1437-19	Silver 6010 Total	CAT B						
24E1437-19	Thallium 6010 Total	CAT B						
24E1437-19	Zinc 6010 Total	CAT B						
24E1437-02	Cadmium 6010 Total	CAT B						
24E1437-02	Copper 6010 Total	CAT B						
24E1437-02	Chromium 6010 Total	CAT B						
24E1437-02	Lead 6010 Total	CAT B						
24E1437-02	Magnesium 6010 Total	CAT B						
24E1437-02	Thallium 6010 Total	CAT B						
24E1437-02	Potassium 6010 Total	CAT B						
24E1437-02	Silver 6010 Total	CAT B						
24E1437-02	Zinc 6010 Total	CAT B						
24E1437-03	Aluminum 6010 Total	CAT B						
24E1437-03	Arsenic 6010 Total	CAT B						
24E1437-03	Beryllium 6010 Total	CAT B						
24E1437-02	Manganese 6010 Total	CAT B						
24E1437-02	Nickel 6010 Total	CAT B						
24E1437-02	Selenium 6010 Total	CAT B						
24E1437-02	Sodium 6010 Total	CAT B						
24E1437-02	Vanadium 6010 Total	CAT B						
24E1437-03	Antimony 6010 Total	CAT B						
24E1437-03	Barium 6010 Total	CAT B						
24E1437-03	Cadmium 6010 Total	CAT B						
24E1437-03	Cobalt 6010 Total	CAT B						
24E1437-03	Calcium 6010 Total	CAT B						
24E1437-03	Iron 6010 Total	CAT B						
24E1437-03	Lead 6010 Total	CAT B						

Prepared By Date

Preparation Reviewed By Date

PREPARATION BENCH SHEET
B374725

Prepared: 05/17/24 01:13

Printed: 5/31/2024 1:00:51PM

Pace New England

Matrix: Soil

Prepared using: METALS - SW-846 3050B

Sample ID	Sample Name	Container	AMT DIGESTED mL g L	Final Vol (mL)	Due TAT	Spike Amount uL 1 | 2	Comments	Priority
24E1437-03	Manganese 6010 Total	CAT B						
24E1437-03	Nickel 6010 Total	CAT B						
24E1437-03	Selenium 6010 Total	CAT B						
24E1437-03	Sodium 6010 Total	CAT B						
24E1437-03	Vanadium 6010 Total	CAT B						
24E1437-03	Copper 6010 Total	CAT B						
24E1437-03	Chromium 6010 Total	CAT B						
24E1437-03	Magnesium 6010 Total	CAT B						
24E1437-03	Thallium 6010 Total	CAT B						
24E1437-03	Potassium 6010 Total	CAT B						
24E1437-03	Silver 6010 Total	CAT B						
24E1437-03	Zinc 6010 Total	CAT B						
24E1437-04	Aluminum 6010 Total	CAT B						
24E1437-04	Arsenic 6010 Total	CAT B						
24E1437-04	Antimony 6010 Total	CAT B						
24E1437-04	Cadmium 6010 Total	CAT B						
24E1437-04	Chromium 6010 Total	CAT B						
24E1437-04	Iron 6010 Total	CAT B						
24E1437-04	Magnesium 6010 Total	CAT B						
24E1437-04	Copper 6010 Total	CAT B						
24E1437-04	Selenium 6010 Total	CAT B						
24E1437-04	Barium 6010 Total	CAT B						
24E1437-04	Beryllium 6010 Total	CAT B						
24E1437-04	Calcium 6010 Total	CAT B						
24E1437-04	Cobalt 6010 Total	CAT B						
24E1437-04	Lead 6010 Total	CAT B						
24E1437-04	Manganese 6010 Total	CAT B						
24E1437-04	Nickel 6010 Total	CAT B						
24E1437-04	Silver 6010 Total	CAT B						
24E1437-04	Sodium 6010 Total	CAT B						
24E1437-04	Thallium 6010 Total	CAT B						
24E1437-04	Vanadium 6010 Total	CAT B						
24E1437-05	Antimony 6010 Total	CAT B						
24E1437-05	Barium 6010 Total	CAT B						
24E1437-05	Cadmium 6010 Total	CAT B						
24E1437-05	Copper 6010 Total	CAT B						
24E1437-05	Iron 6010 Total	CAT B						
24E1437-04	Potassium 6010 Total	CAT B						
24E1437-04	Zinc 6010 Total	CAT B						
24E1437-05	Aluminum 6010 Total	CAT B						
24E1437-05	Arsenic 6010 Total	CAT B						
24E1437-05	Beryllium 6010 Total	CAT B						
24E1437-05	Cobalt 6010 Total	CAT B						
24E1437-05	Calcium 6010 Total	CAT B						
24E1437-05	Chromium 6010 Total	CAT B						
24E1437-05	Lead 6010 Total	CAT B						
24E1437-05	Manganese 6010 Total	CAT B						
24E1437-05	Potassium 6010 Total	CAT B						
24E1437-05	Selenium 6010 Total	CAT B						
24E1437-05	Silver 6010 Total	CAT B						
24E1437-05	Sodium 6010 Total	CAT B						
24E1437-05	Magnesium 6010 Total	CAT B						

Prepared By Date

Preparation Reviewed By Date

PREPARATION BENCH SHEET
B374725

Prepared: 05/17/24 01:13

Printed: 5/31/2024 1:00:51PM

Pace New England

Matrix: Soil

Prepared using: METALS - SW-846 3050B

Sample ID	Sample Name	Container	AMT DIGESTED mL g L	Final Vol (mL)	Due TAT	Spike Amount uL 1 | 2	Comments	Priority
24E1437-05	Nickel 6010 Total	CAT B						
24E1437-06	Copper 6010 Total	CAT B						
24E1437-06	Thallium 6010 Total	CAT B						
24E1437-06	Zinc 6010 Total	CAT B						
24E1437-07	Antimony 6010 Total	CAT B						
24E1437-07	Barium 6010 Total	CAT B						
24E1437-07	Cadmium 6010 Total	CAT B						
24E1437-05	Thallium 6010 Total	CAT B						
24E1437-05	Vanadium 6010 Total	CAT B						
24E1437-05	Zinc 6010 Total	CAT B						
24E1437-06	Aluminum 6010 Total	CAT B						
24E1437-06	Antimony 6010 Total	CAT B						
24E1437-06	Beryllium 6010 Total	CAT B						
24E1437-06	Calcium 6010 Total	CAT B						
24E1437-06	Chromium 6010 Total	CAT B						
24E1437-06	Cobalt 6010 Total	CAT B						
24E1437-06	Iron 6010 Total	CAT B						
24E1437-06	Lead 6010 Total	CAT B						
24E1437-06	Magnesium 6010 Total	CAT B						
24E1437-06	Manganese 6010 Total	CAT B						
24E1437-06	Nickel 6010 Total	CAT B						
24E1437-06	Selenium 6010 Total	CAT B						
24E1437-06	Silver 6010 Total	CAT B						
24E1437-06	Sodium 6010 Total	CAT B						
24E1437-06	Potassium 6010 Total	CAT B						
24E1437-06	Vanadium 6010 Total	CAT B						
24E1437-07	Aluminum 6010 Total	CAT B						
24E1437-07	Arsenic 6010 Total	CAT B						
24E1437-07	Beryllium 6010 Total	CAT B						
24E1437-07	Cobalt 6010 Total	CAT B						
24E1437-07	Iron 6010 Total	CAT B						
24E1437-07	Calcium 6010 Total	CAT B						
24E1437-07	Copper 6010 Total	CAT B						
24E1437-07	Lead 6010 Total	CAT B						
24E1437-01	Antimony 6010 Total	CAT B						
24E1437-01	Barium 6010 Total	CAT B						
24E1437-01	Cadmium 6010 Total	CAT B						
24E1437-01	Cobalt 6010 Total	CAT B						
24E1437-01	Chromium 6010 Total	CAT B						
24E1437-01	Lead 6010 Total	CAT B						
24E1437-01	Aluminum 6010 Total	CAT B						
24E1437-01	Arsenic 6010 Total	CAT B						
24E1437-01	Beryllium 6010 Total	CAT B						
24E1437-01	Calcium 6010 Total	CAT B						
24E1437-01	Copper 6010 Total	CAT B						
24E1437-01	Iron 6010 Total	CAT B						
24E1437-01	Magnesium 6010 Total	CAT B						
24E1437-01	Nickel 6010 Total	CAT B						
24E1437-01	Manganese 6010 Total	CAT B						
24E1437-01	Potassium 6010 Total	CAT B						
24E1437-01	Silver 6010 Total	CAT B						
24E1437-01	Thallium 6010 Total	CAT B						

Prepared By Date

Preparation Reviewed By Date

PREPARATION BENCH SHEET
B374725

Prepared: 05/17/24 01:13

Printed: 5/31/2024 1:00:51PM

Pace New England

Matrix: Soil

Prepared using: METALS - SW-846 3050B

Sample ID	Sample Name	Container	AMT DIGESTED mL g L	Final Vol (mL)	Due TAT	Spike Amount uL 1 | 2	Comments	Priority
24E1437-02	Arsenic 6010 Total	CAT B						
24E1437-01	Vanadium 6010 Total	CAT B						
24E1437-02	Antimony 6010 Total	CAT B						
24E1437-06	Barium 6010 Total	CAT B						
24E1437-01	Selenium 6010 Total	CAT B						
24E1437-01	Sodium 6010 Total	CAT B						
24E1437-01	Zinc 6010 Total	CAT B						
24E1437-02	Barium 6010 Total	CAT B						
24E1437-02	Aluminum 6010 Total	CAT B						
24E1437-06	Arsenic 6010 Total	CAT B						
24E1437-06	Cadmium 6010 Total	CAT B						
24E1437-07	Magnesium 6010 Total	CAT B						
24E1437-07	Chromium 6010 Total	CAT B						
24E1437-07	Manganese 6010 Total	CAT B						
24E1437-07	Potassium 6010 Total	CAT B						
24E1437-07	Silver 6010 Total	CAT B						
24E1437-07	Thallium 6010 Total	CAT B						
24E1437-07	Zinc 6010 Total	CAT B						
24E1437-08	Aluminum 6010 Total	CAT B						
24E1437-07	Nickel 6010 Total	CAT B						
24E1437-07	Selenium 6010 Total	CAT B						
24E1437-07	Sodium 6010 Total	CAT B						
24E1437-07	Vanadium 6010 Total	CAT B						
24E1437-13	Sodium 6010 Total	CAT B						
24E1437-18	Copper 6010 Total	CAT B						
24E1437-08	Beryllium 6010 Total	CAT B						
24E1437-08	Cobalt 6010 Total	CAT B						
24E1437-08	Antimony 6010 Total	CAT B						
24E1437-08	Arsenic 6010 Total	CAT B						
24E1437-08	Barium 6010 Total	CAT B						
24E1437-09	Barium 6010 Total	CAT B						
24E1437-09	Cadmium 6010 Total	CAT B						
24E1437-13	Aluminum 6010 Total	CAT B						
24E1437-13	Antimony 6010 Total	CAT B						
24E1437-13	Beryllium 6010 Total	CAT B						
24E1437-13	Chromium 6010 Total	CAT B						
24E1437-13	Iron 6010 Total	CAT B						
24E1437-13	Lead 6010 Total	CAT B						
24E1437-13	Magnesium 6010 Total	CAT B						
24E1437-13	Manganese 6010 Total	CAT B						
24E1437-13	Nickel 6010 Total	CAT B						
24E1437-13	Potassium 6010 Total	CAT B						
24E1437-13	Selenium 6010 Total	CAT B						
24E1437-13	Silver 6010 Total	CAT B						
24E1437-15	Lead 6010 Total	CAT B						
24E1437-18	Iron 6010 Total	CAT B						
24E1437-08	Cadmium 6010 Total	CAT B						
24E1437-08	Copper 6010 Total	CAT B						
24E1437-08	Lead 6010 Total	CAT B						
24E1437-08	Chromium 6010 Total	CAT B						
24E1437-08	Manganese 6010 Total	CAT B						
24E1437-08	Iron 6010 Total	CAT B						

Prepared By Date

Preparation Reviewed By Date

PREPARATION BENCH SHEET
B374725

Prepared: 05/17/24 01:13

Printed: 5/31/2024 1:00:51PM

Pace New England

Matrix: Soil

Prepared using: METALS - SW-846 3050B

Sample ID	Sample Name	Container	AMT DIGESTED mL g L	Final Vol (mL)	Due TAT	Spike Amount uL 1 | 2	Comments	Priority
24E1437-08	Calcium 6010 Total	CAT B						
24E1437-08	Magnesium 6010 Total	CAT B						
24E1437-08	Nickel 6010 Total	CAT B						
24E1437-08	Selenium 6010 Total	CAT B						
24E1437-08	Sodium 6010 Total	CAT B						
24E1437-09	Arsenic 6010 Total	CAT B						
24E1437-13	Vanadium 6010 Total	CAT B						
24E1437-08	Potassium 6010 Total	CAT B						
24E1437-08	Silver 6010 Total	CAT B						
24E1437-08	Zinc 6010 Total	CAT B						
24E1437-13	Thallium 6010 Total	CAT B						
24E1437-13	Zinc 6010 Total	CAT B						
24E1437-14	Antimony 6010 Total	CAT B						
24E1437-14	Barium 6010 Total	CAT B						
24E1437-14	Beryllium 6010 Total	CAT B						
24E1437-14	Aluminum 6010 Total	CAT B						
24E1437-14	Arsenic 6010 Total	CAT B						
24E1437-14	Cadmium 6010 Total	CAT B						
24E1437-14	Cobalt 6010 Total	CAT B						
24E1437-10	Barium 6010 Total	CAT B						
24E1437-10	Arsenic 6010 Total	CAT B						
24E1437-10	Calcium 6010 Total	CAT B						
24E1437-10	Cobalt 6010 Total	CAT B						
24E1437-14	Copper 6010 Total	CAT B						
24E1437-14	Calcium 6010 Total	CAT B						
24E1437-14	Chromium 6010 Total	CAT B						
24E1437-14	Iron 6010 Total	CAT B						
24E1437-14	Lead 6010 Total	CAT B						
24E1437-14	Magnesium 6010 Total	CAT B						
24E1437-14	Manganese 6010 Total	CAT B						
24E1437-14	Nickel 6010 Total	CAT B						
24E1437-14	Silver 6010 Total	CAT B						
24E1437-08	Thallium 6010 Total	CAT B						
24E1437-08	Vanadium 6010 Total	CAT B						
24E1437-09	Aluminum 6010 Total	CAT B						
24E1437-09	Antimony 6010 Total	CAT B						
24E1437-09	Beryllium 6010 Total	CAT B						
24E1437-09	Calcium 6010 Total	CAT B						
24E1437-09	Chromium 6010 Total	CAT B						
24E1437-09	Cobalt 6010 Total	CAT B						
24E1437-09	Copper 6010 Total	CAT B						
24E1437-09	Iron 6010 Total	CAT B						
24E1437-09	Lead 6010 Total	CAT B						
24E1437-09	Magnesium 6010 Total	CAT B						
24E1437-09	Manganese 6010 Total	CAT B						
24E1437-09	Nickel 6010 Total	CAT B						
24E1437-09	Potassium 6010 Total	CAT B						
24E1437-09	Silver 6010 Total	CAT B						
24E1437-09	Sodium 6010 Total	CAT B						
24E1437-09	Selenium 6010 Total	CAT B						
24E1437-09	Zinc 6010 Total	CAT B						
24E1437-09	Thallium 6010 Total	CAT B						

Prepared By Date

Preparation Reviewed By Date

PREPARATION BENCH SHEET
B374725

Prepared: 05/17/24 01:13

Printed: 5/31/2024 1:00:51PM

Pace New England

Matrix: Soil

Prepared using: METALS - SW-846 3050B

Sample ID	Sample Name	Container	AMT DIGESTED mL g L	Final Vol (mL)	Due TAT	Spike Amount uL 1 | 2	Comments	Priority
24E1437-09	Vanadium 6010 Total	CAT B						
24E1437-10	Aluminum 6010 Total	CAT B						
24E1437-10	Antimony 6010 Total	CAT B						
24E1437-10	Cadmium 6010 Total	CAT B						
24E1437-10	Beryllium 6010 Total	CAT B						
24E1437-10	Chromium 6010 Total	CAT B						
24E1437-10	Copper 6010 Total	CAT B						
24E1437-10	Lead 6010 Total	CAT B						
24E1437-10	Manganese 6010 Total	CAT B						
24E1437-10	Potassium 6010 Total	CAT B						
24E1437-10	Iron 6010 Total	CAT B						
24E1437-10	Magnesium 6010 Total	CAT B						
24E1437-10	Nickel 6010 Total	CAT B						
24E1437-10	Silver 6010 Total	CAT B						
24E1437-10	Thallium 6010 Total	CAT B						
24E1437-10	Zinc 6010 Total	CAT B						
24E1437-11	Aluminum 6010 Total	CAT B						
24E1437-10	Sodium 6010 Total	CAT B						
24E1437-10	Vanadium 6010 Total	CAT B						
24E1437-10	Selenium 6010 Total	CAT B						
24E1437-11	Antimony 6010 Total	CAT B						
24E1437-13	Calcium 6010 Total	CAT B						
24E1437-13	Copper 6010 Total	CAT B						
24E1437-11	Vanadium 6010 Total	CAT B						
24E1437-12	Aluminum 6010 Total	CAT B						
24E1437-11	Arsenic 6010 Total	CAT B						
24E1437-11	Barium 6010 Total	CAT B						
24E1437-11	Cadmium 6010 Total	CAT B						
24E1437-11	Calcium 6010 Total	CAT B						
24E1437-11	Beryllium 6010 Total	CAT B						
24E1437-11	Chromium 6010 Total	CAT B						
24E1437-11	Cobalt 6010 Total	CAT B						
24E1437-11	Copper 6010 Total	CAT B						
24E1437-11	Iron 6010 Total	CAT B						
24E1437-11	Lead 6010 Total	CAT B						
24E1437-11	Magnesium 6010 Total	CAT B						
24E1437-11	Manganese 6010 Total	CAT B						
24E1437-11	Nickel 6010 Total	CAT B						
24E1437-11	Potassium 6010 Total	CAT B						
24E1437-11	Selenium 6010 Total	CAT B						
24E1437-11	Silver 6010 Total	CAT B						
24E1437-11	Sodium 6010 Total	CAT B						
24E1437-13	Cobalt 6010 Total	CAT B						
24E1437-11	Thallium 6010 Total	CAT B						
24E1437-11	Zinc 6010 Total	CAT B						
24E1437-12	Cadmium 6010 Total	CAT B						
24E1437-12	Barium 6010 Total	CAT B						
24E1437-12	Antimony 6010 Total	CAT B						
24E1437-12	Chromium 6010 Total	CAT B						
24E1437-12	Arsenic 6010 Total	CAT B						
24E1437-12	Beryllium 6010 Total	CAT B						
24E1437-12	Calcium 6010 Total	CAT B						

Prepared By Date

Preparation Reviewed By Date

PREPARATION BENCH SHEET
B374725

Prepared: 05/17/24 01:13

Printed: 5/31/2024 1:00:51PM

Pace New England

Matrix: Soil

Prepared using: METALS - SW-846 3050B

Sample ID	Sample Name	Container	AMT DIGESTED mL g L	Final Vol (mL)	Due TAT	Spike Amount uL 1 | 2	Comments	Priority
24E1437-12	Cobalt 6010 Total	CAT B						
24E1437-12	Iron 6010 Total	CAT B						
24E1437-12	Magnesium 6010 Total	CAT B						
24E1437-12	Nickel 6010 Total	CAT B						
24E1437-12	Silver 6010 Total	CAT B						
24E1437-12	Copper 6010 Total	CAT B						
24E1437-12	Lead 6010 Total	CAT B						
24E1437-12	Manganese 6010 Total	CAT B						
24E1437-12	Selenium 6010 Total	CAT B						
24E1437-12	Sodium 6010 Total	CAT B						
24E1437-12	Thallium 6010 Total	CAT B						
24E1437-12	Zinc 6010 Total	CAT B						
24E1437-13	Barium 6010 Total	CAT B						
24E1437-12	Potassium 6010 Total	CAT B						
24E1437-12	Vanadium 6010 Total	CAT B						
24E1437-13	Arsenic 6010 Total	CAT B						
24E1437-13	Cadmium 6010 Total	CAT B						
24E1437-14	Selenium 6010 Total	CAT B						
24E1437-14	Thallium 6010 Total	CAT B						
24E1437-14	Zinc 6010 Total	CAT B						
24E1437-15	Antimony 6010 Total	CAT B						
24E1437-14	Potassium 6010 Total	CAT B						
24E1437-14	Sodium 6010 Total	CAT B						
24E1437-14	Vanadium 6010 Total	CAT B						
24E1437-15	Aluminum 6010 Total	CAT B						
24E1437-15	Arsenic 6010 Total	CAT B						
24E1437-15	Beryllium 6010 Total	CAT B						
24E1437-15	Calcium 6010 Total	CAT B						
24E1437-15	Cobalt 6010 Total	CAT B						
24E1437-15	Barium 6010 Total	CAT B						
24E1437-15	Cadmium 6010 Total	CAT B						
24E1437-15	Chromium 6010 Total	CAT B						
24E1437-15	Copper 6010 Total	CAT B						
24E1437-15	Magnesium 6010 Total	CAT B						
24E1437-15	Nickel 6010 Total	CAT B						
24E1437-15	Sodium 6010 Total	CAT B						
24E1437-15	Vanadium 6010 Total	CAT B						
24E1437-15	Iron 6010 Total	CAT B						
24E1437-15	Manganese 6010 Total	CAT B						
24E1437-15	Silver 6010 Total	CAT B						
24E1437-15	Thallium 6010 Total	CAT B						
24E1437-15	Zinc 6010 Total	CAT B						
24E1437-15	Selenium 6010 Total	CAT B						
24E1437-16	Antimony 6010 Total	CAT B						
24E1437-16	Barium 6010 Total	CAT B						
24E1437-15	Potassium 6010 Total	CAT B						
24E1437-16	Aluminum 6010 Total	CAT B						
24E1437-16	Arsenic 6010 Total	CAT B						
24E1437-16	Cadmium 6010 Total	CAT B						
24E1437-16	Beryllium 6010 Total	CAT B						
24E1437-16	Chromium 6010 Total	CAT B						
24E1437-16	Copper 6010 Total	CAT B						

Prepared By Date

Preparation Reviewed By Date

PREPARATION BENCH SHEET
B374725

Prepared: 05/17/24 01:13

Printed: 5/31/2024 1:00:51PM

Pace New England

Matrix: Soil

Prepared using: METALS - SW-846 3050B

Sample ID	Sample Name	Container	AMT DIGESTED mL g L	Final Vol (mL)	Due TAT	Spike Amount uL 1 | 2	Comments	Priority
24E1437-16	Magnesium 6010 Total	CAT B						
24E1437-16	Lead 6010 Total	CAT B						
24E1437-16	Calcium 6010 Total	CAT B						
24E1437-16	Cobalt 6010 Total	CAT B						
24E1437-16	Iron 6010 Total	CAT B						
24E1437-16	Manganese 6010 Total	CAT B						
24E1437-16	Potassium 6010 Total	CAT B						
24E1437-16	Silver 6010 Total	CAT B						
24E1437-18	Lead 6010 Total	CAT B						
24E1437-16	Nickel 6010 Total	CAT B						
24E1437-16	Selenium 6010 Total	CAT B						
24E1437-16	Sodium 6010 Total	CAT B						
24E1437-18	Calcium 6010 Total	CAT B						
24E1437-16	Thallium 6010 Total	CAT B						
24E1437-16	Zinc 6010 Total	CAT B						
24E1437-17	Aluminum 6010 Total	CAT B						
24E1437-18	Cobalt 6010 Total	CAT B						
24E1437-16	Vanadium 6010 Total	CAT B						
24E1437-17	Sodium 6010 Total	CAT B						
24E1437-17	Vanadium 6010 Total	CAT B						
24E1437-18	Arsenic 6010 Total	CAT B						
24E1437-18	Cadmium 6010 Total	CAT B						
24E1437-18	Antimony 6010 Total	CAT B						
24E1437-18	Magnesium 6010 Total	CAT B						
24E1437-17	Antimony 6010 Total	CAT B						
24E1437-17	Arsenic 6010 Total	CAT B						
24E1437-17	Barium 6010 Total	CAT B						
24E1437-17	Beryllium 6010 Total	CAT B						
24E1437-17	Cadmium 6010 Total	CAT B						
24E1437-17	Calcium 6010 Total	CAT B						
24E1437-17	Chromium 6010 Total	CAT B						
24E1437-17	Cobalt 6010 Total	CAT B						
24E1437-17	Copper 6010 Total	CAT B						
24E1437-17	Iron 6010 Total	CAT B						
24E1437-17	Lead 6010 Total	CAT B						
24E1437-17	Magnesium 6010 Total	CAT B						
24E1437-17	Manganese 6010 Total	CAT B						
24E1437-17	Nickel 6010 Total	CAT B						
24E1437-17	Potassium 6010 Total	CAT B						
24E1437-17	Selenium 6010 Total	CAT B						
24E1437-17	Silver 6010 Total	CAT B						
24E1437-17	Thallium 6010 Total	CAT B						
24E1437-17	Zinc 6010 Total	CAT B						
24E1437-18	Barium 6010 Total	CAT B						
24E1437-18	Aluminum 6010 Total	CAT B						
24E1437-18	Beryllium 6010 Total	CAT B						
24E1437-18	Manganese 6010 Total	CAT B						
24E1437-18	Nickel 6010 Total	CAT B						
24E1437-18	Chromium 6010 Total	CAT B						
24E1437-18	Potassium 6010 Total	CAT B						
24E1437-18	Silver 6010 Total	CAT B						
24E1437-18	Thallium 6010 Total	CAT B						

Prepared By Date

Preparation Reviewed By Date

PREPARATION BENCH SHEET
B374725

Prepared: 05/17/24 01:13

Printed: 5/31/2024 1:00:51PM

Pace New England

Matrix: Soil

Prepared using: METALS - SW-846 3050B

Sample ID	Sample Name	Container	AMT DIGESTED mL g L	Final Vol (mL)	Due TAT	Spike Amount uL 1 | 2	Comments	Priority
24E1437-18	Selenium 6010 Total	CAT B						
24E1437-18	Sodium 6010 Total	CAT B						

Prepared By Date

Preparation Reviewed By Date

ANALYSIS SEQUENCE

S104880

Instrument: ICP2

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
S104880-CAL1	QC		1		24D0837	24D0241	
S104880-CAL2	QC		2		24D0841	24D0241	
S104880-CAL3	QC		3		24D0039	24D0241	
S104880-CAL4	QC		4		24D0038	24D0241	
S104880-CAL5	QC		5		24D0037	24D0241	
S104880-CAL6	QC		6		24D0029	24D0241	
S104880-CAL7	QC		7		24D0035	24D0241	
S104880-CAL8	QC		8		24D0728	24D0241	
S104880-ICV1	QC		9		24E0296	24D0241	
S104880-LCV1	QC		10		24D0841	24D0241	
S104880-CCV1	QC		11		24D0029	24D0241	
S104880-IFA1	QC		12		24C0959	24D0241	
S104880-IFB1	QC		13		24D0240	24D0241	
S104880-ICB1	QC		14		24D0837	24D0241	
S104880-LCV2	QC		15		24E0297	24D0241	
S104880-LCV3	QC		16		24E0384	24D0241	
S104880-LCV4	QC		17		24E0780	24D0241	
S104880-HCV1	QC		18		24D0030	24D0241	
S104880-HCV2	QC		19		24C0960	24D0241	

Samples Loaded By Date

Data Processed By Date

==========

Analysis Begun

Start Time: 5/22/2024 1:24:28 PM **Plasma On Time: 5/22/2024 7:48:16 AM**
Logged In Analyst: ICP2 **Technique: ICP Continuous**
Spectrometer: Optima 4300 DV, S/N 069N-na **Autosampler: S10**

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0522A24.sif
Batch ID: Optima 2
Results Data Set: 0522B24
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

==========

Sequence No.: 1 **Autosampler Location: 1**
Sample ID: SEQ-CAL1@ Blank-23J0970 **Date Collected: 5/22/2024 1:24:28 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time:

Mean Data: SEQ-CAL1@ Blank-23J0970

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y axial	4173330.7	34406.73	0.82%	100.0	%
Y radial	206427.9	2291.67	1.11%	100.0	%
Ag 328.068†	-2808.5	57.08	2.03%	[0.00]	mg/L
Al 396.153†	3.0	16.24	541.02%	[0.00]	mg/L
As 188.979†	-26.7	4.97	18.65%	[0.00]	mg/L
B 208.889†	116.1	2.24	1.93%	[0.00]	mg/L
Ba 233.527†	-3.2	3.99	124.62%	[0.00]	mg/L
Be 313.107†	702.9	12.04	1.71%	[0.00]	mg/L
Ca 317.933†	1410.9	19.64	1.39%	[0.00]	mg/L
Cd 228.802†	102.5	8.40	8.19%	[0.00]	mg/L
Co 228.616†	237.0	5.84	2.46%	[0.00]	mg/L
Cr 267.716†	491.7	5.99	1.22%	[0.00]	mg/L
Cu 327.393†	-353.3	23.81	6.74%	[0.00]	mg/L
Fe 238.204†	32.9	8.81	26.73%	[0.00]	mg/L
K 766.490†	646.1	21.73	3.36%	[0.00]	mg/L
Mg 285.213†	611.7	29.10	4.76%	[0.00]	mg/L
Mn 257.610†	122.2	4.09	3.35%	[0.00]	mg/L
Mo 202.031†	11.7	0.91	7.75%	[0.00]	mg/L
Na 589.592†	281.9	7.65	2.72%	[0.00]	mg/L
Ni 231.604†	579.9	7.00	1.21%	[0.00]	mg/L
Pb 220.353†	10.1	2.07	20.54%	[0.00]	mg/L
Sb 206.836†	34.8	3.80	10.92%	[0.00]	mg/L
Se 196.026†	-3.4	3.33	96.60%	[0.00]	mg/L
Sn 189.927†	-1.7	2.50	145.25%	[0.00]	mg/L
Ti 337.279†	142.1	1.81	1.27%	[0.00]	mg/L
Tl 351.924†	105.8	21.56	20.38%	[0.00]	mg/L
V 290.880†	5103.7	113.23	2.22%	[0.00]	mg/L
Zn 206.200†	203.1	4.50	2.21%	[0.00]	mg/L
Zr 343.823†	580.0	33.94	5.85%	[0.00]	mg/L

User canceled analysis.

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Analysis Begun

Start Time: 5/22/2024 1:30:26 PM **Plasma On Time: 5/22/2024 7:48:16 AM**
Logged In Analyst: ICP2 **Technique: ICP Continuous**
Spectrometer: Optima 4300 DV, S/N 069N-na **Autosampler: S10**

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0522A24.sif
Batch ID: Optima 2
Results Data Set: 0522B24
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

==========

Sequence No.: 1 **Autosampler Location: 1**

Sample ID: SEQ-CAL1@ Blank-23J0970 **Date Collected: 5/22/2024 1:30:27 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time:

Mean Data: SEQ-CAL1@ Blank-23J0970

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y axial	4129594.6	28178.74	0.68%	98.95	%
Y radial	204606.0	2556.33	1.25%	99.12	%
Ag 328.068†	-2773.4	55.48	2.00%	[0.00]	mg/L
Al 396.153†	3.0	18.34	602.49%	[0.00]	mg/L
As 188.979†	-26.2	1.40	5.36%	[0.00]	mg/L
B 208.889†	115.8	2.38	2.06%	[0.00]	mg/L
Ba 233.527†	1.0	5.79	574.76%	[0.00]	mg/L
Be 313.107†	678.1	10.16	1.50%	[0.00]	mg/L
Ca 317.933†	1414.5	23.39	1.65%	[0.00]	mg/L
Cd 228.802†	104.7	4.28	4.09%	[0.00]	mg/L
Co 228.616†	236.0	8.84	3.75%	[0.00]	mg/L
Cr 267.716†	510.0	2.97	0.58%	[0.00]	mg/L
Cu 327.393†	-475.7	24.79	5.21%	[0.00]	mg/L
Fe 238.204†	32.7	3.72	11.36%	[0.00]	mg/L
K 766.490†	634.9	2.78	0.44%	[0.00]	mg/L
Mg 285.213†	589.5	13.49	2.29%	[0.00]	mg/L
Mn 257.610†	118.9	6.13	5.15%	[0.00]	mg/L
Mo 202.031†	14.2	0.81	5.69%	[0.00]	mg/L
Na 589.592†	286.4	8.94	3.12%	[0.00]	mg/L
Ni 231.604†	547.3	9.03	1.65%	[0.00]	mg/L
Pb 220.353†	3.8	5.36	141.31%	[0.00]	mg/L
Sb 206.836†	38.4	5.13	13.35%	[0.00]	mg/L
Se 196.026†	-1.9	1.26	67.84%	[0.00]	mg/L
Sn 189.927†	-7.1	3.33	46.73%	[0.00]	mg/L
Ti 337.279†	152.1	7.49	4.92%	[0.00]	mg/L
Tl 351.924†	175.3	46.38	26.45%	[0.00]	mg/L
V 290.880†	5326.3	38.95	0.73%	[0.00]	mg/L
Zn 206.200†	185.8	1.51	0.81%	[0.00]	mg/L
Zr 343.823†	622.0	84.87	13.65%	[0.00]	mg/L

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Sequence No.: 2 **Autosampler Location: 2**
Sample ID: SEQ-CAL2@ 23J0971 **Date Collected: 5/22/2024 1:35:58 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 110 **Auto Dilution Factor: 1**

Mean Data: SEQ-CAL2@ 23J0971

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y axial	4128501.8	25615.88	0.62%	98.93	%
Y radial	209004.6	939.09	0.45%	101.2	%
Ag 328.068†	2361.7	35.26	1.49%	[0.01]	mg/L
Al 396.153†	220.3	2.28	1.03%	[0.05]	mg/L
As 188.979†	19.2	6.05	31.58%	[0.01]	mg/L
B 208.889†	1400.3	11.90	0.85%	[0.1]	mg/L
Ba 233.527†	6509.2	116.58	1.79%	[0.05]	mg/L
Be 313.107†	1670.3	25.31	1.52%	[0.004]	mg/L
Ca 317.933†	3562.0	9.70	0.27%	[0.5]	mg/L
Cd 228.802†	362.8	8.41	2.32%	[0.004]	mg/L
Co 228.616†	777.9	16.99	2.18%	[0.01]	mg/L
Cr 267.716†	1029.8	15.92	1.55%	[0.01]	mg/L
Cu 327.393†	1499.0	47.73	3.18%	[0.01]	mg/L
Fe 238.204†	126.4	3.29	2.60%	[0.05]	mg/L
Mg 285.213†	489.1	14.29	2.92%	[0.05]	mg/L
Mn 257.610†	291.2	7.36	2.53%	[0.01]	mg/L
Mo 202.031†	967.9	5.19	0.54%	[0.05]	mg/L
Ni 231.604†	292.7	7.02	2.40%	[0.01]	mg/L

Pb 220.353†	87.8	1.86	2.12%	[0.01]	mg/L
Sb 206.836†	179.7	5.70	3.17%	[0.05]	mg/L
Se 196.026†	67.8	2.61	3.85%	[0.05]	mg/L
Sn 189.927†	584.0	2.51	0.43%	[0.1]	mg/L
Ti 337.279†	391.9	3.24	0.83%	[0.02]	mg/L
Tl 351.924†	386.0	48.76	12.63%	[0.05]	mg/L
V 290.880†	1589.7	67.04	4.22%	[0.01]	mg/L
Zn 206.200†	483.7	3.43	0.71%	[0.01]	mg/L

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Sequence No.: 3 **Autosampler Location: 3**
Sample ID: SEQ-CAL3@ 23J0972 **Date Collected: 5/22/2024 1:41:27 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 110 **Auto Dilution Factor: 1**

Mean Data: SEQ-CAL3@ 23J0972

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y axial	4187882.2	3760.48	0.09%	100.3	%
Y radial	210394.8	1475.27	0.70%	101.9	%
Ag 328.068†	15263.5	88.88	0.58%	[0.0625]	mg/L
Al 396.153†	992.2	9.93	1.00%	[0.25]	mg/L
As 188.979†	277.9	8.38	3.02%	[0.125]	mg/L
B 208.889†	1755.0	3.69	0.21%	[0.125]	mg/L
Ba 233.527†	15968.1	119.86	0.75%	[0.125]	mg/L
Be 313.107†	51739.6	89.15	0.17%	[0.125]	mg/L
Cd 228.802†	10816.3	86.60	0.80%	[0.125]	mg/L
Co 228.616†	9319.4	93.79	1.01%	[0.125]	mg/L
Cr 267.716†	11951.4	103.94	0.87%	[0.125]	mg/L
Cu 327.393†	17232.1	159.87	0.93%	[0.125]	mg/L
Fe 238.204†	318.9	4.64	1.45%	[0.125]	mg/L
Mg 285.213†	2485.6	10.25	0.41%	[0.25]	mg/L
Mn 257.610†	3588.2	24.22	0.68%	[0.125]	mg/L
Mo 202.031†	2378.0	5.10	0.21%	[0.125]	mg/L
Ni 231.604†	3609.3	48.43	1.34%	[0.125]	mg/L
Pb 220.353†	1101.3	0.86	0.08%	[0.125]	mg/L
Sb 206.836†	571.5	2.73	0.48%	[0.125]	mg/L
Se 196.026†	161.6	6.47	4.00%	[0.125]	mg/L
Sn 189.927†	764.1	5.20	0.68%	[0.125]	mg/L
Ti 337.279†	2407.7	18.93	0.79%	[0.125]	mg/L
Tl 351.924†	542.3	77.47	14.28%	[0.0625]	mg/L
V 290.880†	20000.2	214.10	1.07%	[0.125]	mg/L
Zn 206.200†	5668.1	68.80	1.21%	[0.125]	mg/L
Zr 343.823†	40995.2	688.15	1.68%	[0.125]	mg/L

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Sequence No.: 4 **Autosampler Location: 4**
Sample ID: SEQ-CAL4@ 23J0973 **Date Collected: 5/22/2024 1:46:57 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 110 **Auto Dilution Factor: 1**

Mean Data: SEQ-CAL4@ 23J0973

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y axial	4141894.8	50412.21	1.22%	99.25	%
Y radial	207810.0	365.17	0.18%	100.7	%
Ag 328.068†	61542.6	568.53	0.92%	[0.25]	mg/L
Al 396.153†	4013.7	28.93	0.72%	[1]	mg/L
As 188.979†	1145.0	7.13	0.62%	[0.5]	mg/L
B 208.889†	7200.5	99.00	1.37%	[0.5]	mg/L
Ba 233.527†	64404.3	708.60	1.10%	[0.5]	mg/L
Be 313.107†	209465.6	137.81	0.07%	[0.5]	mg/L
Ca 317.933†	7337.9	61.93	0.84%	[1]	mg/L
Cd 228.802†	43829.8	400.07	0.91%	[0.5]	mg/L

Co 228.616†	38571.5	390.52	1.01%	[0.5]	mg/L
Cr 267.716†	48145.8	470.08	0.98%	[0.5]	mg/L
Cu 327.393†	71129.0	468.59	0.66%	[0.5]	mg/L
Fe 238.204†	1330.8	14.40	1.08%	[0.5]	mg/L
Mg 285.213†	10131.2	71.99	0.71%	[1]	mg/L
Mn 257.610†	14676.9	104.67	0.71%	[0.5]	mg/L
Mo 202.031†	9805.5	131.77	1.34%	[0.5]	mg/L
Ni 231.604†	14955.7	117.44	0.79%	[0.5]	mg/L
Pb 220.353†	4451.4	38.86	0.87%	[0.5]	mg/L
Sb 206.836†	2299.1	21.74	0.95%	[0.5]	mg/L
Se 196.026†	662.6	13.05	1.97%	[0.5]	mg/L
Sn 189.927†	3073.4	35.66	1.16%	[0.5]	mg/L
Ti 337.279†	9835.7	79.68	0.81%	[0.5]	mg/L
Tl 351.924†	2301.5	43.32	1.88%	[0.25]	mg/L
V 290.880†	82248.6	812.97	0.99%	[0.5]	mg/L
Zn 206.200†	23682.9	259.17	1.09%	[0.5]	mg/L
Zr 343.823†	172149.1	415.18	0.24%	[0.5]	mg/L

Sequence No.: 5 **Autosampler Location: 5**
Sample ID: SEQ-CAL5@ 23J0974 **Date Collected: 5/22/2024 1:52:30 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 110 **Auto Dilution Factor: 1**

Mean Data: SEQ-CAL5@ 23J0974

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y axial	4102603.2	49674.41	1.21%	98.31	%
Y radial	206728.2	1900.82	0.92%	100.1	%
Ag 328.068†	121787.4	1208.72	0.99%	[0.5]	mg/L
Al 396.153†	8197.2	110.84	1.35%	[2]	mg/L
As 188.979†	2324.4	20.28	0.87%	[1]	mg/L
B 208.889†	14697.6	133.94	0.91%	[1]	mg/L
Ba 233.527†	128612.8	1516.84	1.18%	[1]	mg/L
Be 313.107†	424122.4	742.14	0.17%	[1]	mg/L
Ca 317.933†	14926.8	207.02	1.39%	[2]	mg/L
Cd 228.802†	88260.3	912.13	1.03%	[1]	mg/L
Co 228.616†	77303.0	921.48	1.19%	[1]	mg/L
Cr 267.716†	96488.2	1091.98	1.13%	[1]	mg/L
Cu 327.393†	145202.5	1007.91	0.69%	[1]	mg/L
Fe 238.204†	2705.6	45.76	1.69%	[1]	mg/L
K 766.490†	6384.6	97.52	1.53%	[2]	mg/L
Mg 285.213†	20575.6	265.67	1.29%	[2]	mg/L
Mn 257.610†	29464.5	366.88	1.25%	[1]	mg/L
Mo 202.031†	19533.0	203.42	1.04%	[1]	mg/L
Na 589.592†	17566.6	91.97	0.52%	[2]	mg/L
Ni 231.604†	29972.8	298.24	1.00%	[1]	mg/L
Pb 220.353†	8958.4	75.09	0.84%	[1]	mg/L
Sb 206.836†	4640.2	45.84	0.99%	[1]	mg/L
Se 196.026†	1342.2	10.99	0.82%	[1]	mg/L
Sn 189.927†	6154.4	57.26	0.93%	[1]	mg/L
Ti 337.279†	19795.5	303.65	1.53%	[1]	mg/L
Tl 351.924†	4930.3	62.36	1.26%	[0.5]	mg/L
V 290.880†	165186.8	1808.55	1.09%	[1]	mg/L
Zn 206.200†	47689.1	651.71	1.37%	[1]	mg/L
Zr 343.823†	347129.3	3376.43	0.97%	[1]	mg/L

Sequence No.: 6 **Autosampler Location: 6**
Sample ID: SEQ-CAL6@ 23J0975 **Date Collected: 5/22/2024 1:58:02 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 110 **Auto Dilution Factor: 1**

Mean Data: SEQ-CAL6@ 23J0975

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y axial	4046209.8	39003.26	0.96%	96.95	%
Y radial	205353.7	2041.59	0.99%	99.48	%
Ag 328.068†	576192.8	3538.55	0.61%	[2.5]	mg/L
Al 396.153†	39014.6	502.82	1.29%	[10]	mg/L
As 188.979†	11243.5	93.29	0.83%	[5]	mg/L
B 208.889†	70964.2	319.15	0.45%	[5]	mg/L
Ba 233.527†	614097.8	1320.52	0.22%	[5]	mg/L
Be 313.107†	2001737.5	5774.03	0.29%	[5]	mg/L
Ca 317.933†	70554.8	870.68	1.23%	[10]	mg/L
Cd 228.802†	421842.7	1481.99	0.35%	[5]	mg/L
Co 228.616†	367822.5	1102.09	0.30%	[5]	mg/L
Cr 267.716†	464680.3	807.27	0.17%	[5]	mg/L
Cu 327.393†	708751.7	3792.73	0.54%	[5]	mg/L
Fe 238.204†	12731.7	170.67	1.34%	[5]	mg/L
K 766.490†	31008.8	433.95	1.40%	[10]	mg/L
Mg 285.213†	97433.8	1206.86	1.24%	[10]	mg/L
Mn 257.610†	142807.2	1890.85	1.32%	[5]	mg/L
Mo 202.031†	94647.0	303.42	0.32%	[5]	mg/L
Na 589.592†	83384.3	183.35	0.22%	[10]	mg/L
Ni 231.604†	142923.3	234.69	0.16%	[5]	mg/L
Pb 220.353†	43335.6	356.65	0.82%	[5]	mg/L
Sb 206.836†	22672.5	210.23	0.93%	[5]	mg/L
Se 196.026†	6485.4	62.91	0.97%	[5]	mg/L
Sn 189.927†	29909.5	295.13	0.99%	[5]	mg/L
Ti 337.279†	97058.1	1260.42	1.30%	[5]	mg/L
Tl 351.924†	23952.3	182.30	0.76%	[2.5]	mg/L
V 290.880†	797365.0	2435.31	0.31%	[5]	mg/L
Zn 206.200†	227814.2	688.47	0.30%	[5]	mg/L
Zr 343.823†	1681394.3	2562.38	0.15%	[5]	mg/L

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Sequence No.: 7 **Autosampler Location: 7**
Sample ID: SEQ-CAL7@ 23J0976 **Date Collected: 5/22/2024 2:04:37 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 230 **Auto Dilution Factor: 1**

Mean Data: SEQ-CAL7@ 23J0976

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y axial	3953855.5	17128.08	0.43%	94.74	%
Y radial	199903.3	1493.72	0.75%	96.84	%
Ag 328.068†	1155371.1	5909.63	0.51%	[5]	mg/L
Al 396.153†	79256.3	506.98	0.64%	[20]	mg/L
As 188.979†	23053.7	132.20	0.57%	[10]	mg/L
B 208.889†	142075.6	397.40	0.28%	[10]	mg/L
Ba 233.527†	1215313.1	2301.28	0.19%	[10]	mg/L
Be 313.107†	4053482.7	78226.39	1.93%	[10]	mg/L
Ca 317.933†	141670.2	547.97	0.39%	[20]	mg/L
Cd 228.802†	835386.6	1902.48	0.23%	[10]	mg/L
Co 228.616†	732346.2	1416.31	0.19%	[10]	mg/L
Cr 267.716†	927296.8	1543.00	0.17%	[10]	mg/L
Cu 327.393†	1443608.0	3750.71	0.26%	[10]	mg/L
Fe 238.204†	25516.2	137.26	0.54%	[10]	mg/L
K 766.490†	63210.0	295.61	0.47%	[20]	mg/L
Mg 285.213†	197053.6	1187.86	0.60%	[20]	mg/L
Mn 257.610†	284433.9	1319.23	0.46%	[10]	mg/L
Mo 202.031†	188132.5	402.06	0.21%	[10]	mg/L
Na 589.592†	169662.2	1074.17	0.63%	[20]	mg/L
Ni 231.604†	283920.1	480.86	0.17%	[10]	mg/L
Pb 220.353†	86800.8	333.95	0.38%	[10]	mg/L
Sb 206.836†	45983.2	270.40	0.59%	[10]	mg/L
Se 196.026†	13174.8	65.40	0.50%	[10]	mg/L
Sn 189.927†	59495.1	195.45	0.33%	[10]	mg/L
Ti 337.279†	193520.7	1028.29	0.53%	[10]	mg/L
Tl 351.924†	49139.8	319.58	0.65%	[5]	mg/L

V 290.880†	1598671.8	3985.08	0.25%	[10] mg/L
Zn 206.200†	453399.0	680.79	0.15%	[10] mg/L
Zr 343.823†	3381573.3	7929.40	0.23%	[10] mg/L

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Sequence No.: 8 **Autosampler Location: 8**
Sample ID: SEQ-CAL8@ 23J0977 **Date Collected: 5/22/2024 2:10:18 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 230 **Auto Dilution Factor: 1**

Mean Data: SEQ-CAL8@ 23J0977

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y axial	3967534.4	26376.52	0.66%	95.07	%
Y radial	203770.3	2519.76	1.24%	98.71	%
Al 396.153†	190029.2	1240.66	0.65%	[50]	mg/L
Ca 317.933†	349857.8	1843.80	0.53%	[50]	mg/L
Fe 238.204†	62967.6	401.92	0.64%	[25]	mg/L
K 766.490†	155323.5	1035.83	0.67%	[50]	mg/L
Mg 285.213†	479410.4	2867.39	0.60%	[50]	mg/L
Na 589.592†	416483.5	9915.69	2.38%	[50]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	6	Lin Thru 0	0.0	231100	0.00000	0.999983	
Al 396.153	7	Lin Thru 0	0.0	3826	0.00000	0.999886	
As 188.979	6	Lin Thru 0	0.0	2294	0.00000	0.999951	
B 208.889	6	Lin Thru 0	0.0	14210	0.00000	0.999995	
Ba 233.527	6	Lin Thru 0	0.0	121900	0.00000	0.999975	
Be 313.107	6	Lin Thru 0	0.0	404500	0.00000	0.999977	
Ca 317.933	6	Lin Thru 0	0.0	7011	0.00000	0.999987	
Cd 228.802	6	Lin Thru 0	0.0	83750	0.00000	0.999978	
Co 228.616	6	Lin Thru 0	0.0	73340	0.00000	0.999984	
Cr 267.716	6	Lin Thru 0	0.0	92810	0.00000	0.999992	
Cu 327.393	6	Lin Thru 0	0.0	143800	0.00000	0.999973	
Fe 238.204	7	Lin Thru 0	0.0	2524	0.00000	0.999985	
K 766.490	4	Lin Thru 0	0.0	3114	0.00000	0.999982	
Mg 285.213	7	Lin Thru 0	0.0	9630	0.00000	0.999951	
Mn 257.610	6	Lin Thru 0	0.0	28480	0.00000	0.999993	
Mo 202.031	6	Lin Thru 0	0.0	18840	0.00000	0.999990	
Na 589.592	4	Lin Thru 0	0.0	8351	0.00000	0.999979	
Ni 231.604	6	Lin Thru 0	0.0	28450	0.00000	0.999982	
Pb 220.353	6	Lin Thru 0	0.0	8680	0.00000	0.999995	
Sb 206.836	6	Lin Thru 0	0.0	4586	0.00000	0.999984	
Se 196.026	6	Lin Thru 0	0.0	1314	0.00000	0.999979	
Sn 189.927	6	Lin Thru 0	0.0	5958	0.00000	0.999992	
Ti 337.279	6	Lin Thru 0	0.0	19370	0.00000	0.999997	
Tl 351.924	6	Lin Thru 0	0.0	9778	0.00000	0.999943	
V 290.880	6	Lin Thru 0	0.0	159800	0.00000	0.999994	
Zn 206.200	6	Lin Thru 0	0.0	45410	0.00000	0.999986	
Zr 343.823	5	Lin Thru 0	0.0	337900	0.00000	0.999994	

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Analysis Begun

Start Time: 5/22/2024 2:32:56 PM **Plasma On Time: 5/22/2024 7:48:16 AM**
Logged In Analyst: ICP2 **Technique: ICP Continuous**
Spectrometer: Optima 4300 DV, S/N 069N-na **Autosampler: S10**

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0522A24.sif
Batch ID: Optima 2
Results Data Set: 0522B24
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

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Sequence No.: 1 **Autosampler Location: 8**
Sample ID: SEQ-ICV@ 23K0257 **Date Collected: 5/22/2024 2:32:57 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time:
User canceled analysis.

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Analysis Begun

Start Time: 5/22/2024 2:33:22 PM **Plasma On Time: 5/22/2024 7:48:16 AM**
Logged In Analyst: ICP2 **Technique: ICP Continuous**
Spectrometer: Optima 4300 DV, S/N 069N-na **Autosampler: S10**

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0522A24.sif
Batch ID: Optima 2
Results Data Set: 0522B24
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

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Sequence No.: 11 **Autosampler Location: 7**
Sample ID: RINSE **Date Collected: 5/22/2024 2:33:24 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time:

Mean Data: RINSE

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y axial	4173525.0	100.0	%	0.37				0.37%
Y radial	210293.8	101.9	%	1.33				1.31%
Ag 328.068†	-123.7	-0.0005	mg/L	0.00018	-0.0005	mg/L	0.00018	32.98%
Al 396.153†	33.9	0.0089	mg/L	0.00637	0.0089	mg/L	0.00637	71.98%
As 188.979†	0.8	0.0003	mg/L	0.00015	0.0003	mg/L	0.00015	43.65%
B 208.889†	-15.6	-0.0011	mg/L	0.00019	-0.0011	mg/L	0.00019	17.32%
Ba 233.527†	-5.6	-0.0000	mg/L	0.00003	-0.0000	mg/L	0.00003	69.09%
Be 313.107†	-48.5	-0.0001	mg/L	0.00004	-0.0001	mg/L	0.00004	36.40%
Ca 317.933†	-22.7	-0.0032	mg/L	0.00429	-0.0032	mg/L	0.00429	132.46%
Cd 228.802†	-2.9	-0.0000	mg/L	0.00003	-0.0000	mg/L	0.00003	70.96%
Co 228.616†	-21.1	-0.0003	mg/L	0.00013	-0.0003	mg/L	0.00013	46.48%
Cr 267.716†	37.9	0.0004	mg/L	0.00024	0.0004	mg/L	0.00024	59.49%
Cu 327.393†	124.2	0.0009	mg/L	0.00010	0.0009	mg/L	0.00010	11.50%
Fe 238.204†	-31.1	-0.0123	mg/L	0.00234	-0.0123	mg/L	0.00234	18.97%
K 766.490†	-46.2	-0.0148	mg/L	0.02400	-0.0148	mg/L	0.02400	161.66%
Mg 285.213†	-48.8	-0.0051	mg/L	0.00194	-0.0051	mg/L	0.00194	38.09%
Mn 257.610†	-38.0	-0.0013	mg/L	0.00005	-0.0013	mg/L	0.00005	3.72%
Mo 202.031†	-0.1	-0.0000	mg/L	0.00016	-0.0000	mg/L	0.00016	>999.9%
Na 589.592†	-34.2	-0.0041	mg/L	0.00800	-0.0041	mg/L	0.00800	195.10%
Ni 231.604†	-58.7	-0.0021	mg/L	0.00033	-0.0021	mg/L	0.00033	16.24%
Pb 220.353†	4.6	0.0005	mg/L	0.00042	0.0005	mg/L	0.00042	79.71%
Sb 206.836†	-3.8	-0.0008	mg/L	0.00034	-0.0008	mg/L	0.00034	41.33%
Se 196.026†	-1.6	-0.0012	mg/L	0.00251	-0.0012	mg/L	0.00251	202.99%
Sn 189.927†	6.6	0.0011	mg/L	0.00019	0.0011	mg/L	0.00019	16.98%

Ti 337.279†	-12.2	-0.0006 mg/L	0.00009	-0.0006 mg/L	0.00009	13.82%
Tl 351.924†	-26.9	-0.0027 mg/L	0.00070	-0.0027 mg/L	0.00070	25.35%
V 290.880†	-244.5	-0.0015 mg/L	0.00053	-0.0015 mg/L	0.00053	34.68%
Zn 206.200†	-11.1	-0.0002 mg/L	0.00006	-0.0002 mg/L	0.00006	25.94%
Zr 343.823†	-24.4	-0.0001 mg/L	0.00011	-0.0001 mg/L	0.00011	156.04%

User canceled analysis.

Instrument Name:	ICP2							
Date	Time	Analyte Name	Conc (Samp)	Samp Units	True Value	Rel. Error(%)		Paste in cells A3-D3
5/22/2024	1:35:58 PM	Yaxial		%				
5/22/2024	1:35:58 PM	Yradial		%	CAL-2			
5/22/2024	1:35:58 PM	Ag 328.068	0.01024719	mg/L	0.01	2.47	Ag	
5/22/2024	1:35:58 PM	Al 396.153	0.055516143	mg/L	0.05	11.03	Al	
5/22/2024	1:35:58 PM	As 188.979	0.008139454	mg/L	0.01	-18.61	As	
5/22/2024	1:35:58 PM	B 208.889	0.095967662	mg/L	0.1	-4.03	B	
5/22/2024	1:35:58 PM	Ba 233.527	0.053442576	mg/L	0.05	6.89	Ba	
5/22/2024	1:35:58 PM	Be 313.107	0.004086438	mg/L	0.004	2.16	Be	
5/22/2024	1:35:58 PM	Ca 317.933	0.508038628	mg/L	0.5	1.61	Ca	
5/22/2024	1:35:58 PM	Cd 228.802	0.004187123	mg/L	0.004	4.68	Cd	
5/22/2024	1:35:58 PM	Co 228.616	0.010711711	mg/L	0.01	7.12	Co	
5/22/2024	1:35:58 PM	Cr 267.716	0.011098119	mg/L	0.01	10.98	Cr	
5/22/2024	1:35:58 PM	Cu 327.393	0.010420676	mg/L	0.01	4.21	Cu	
5/22/2024	1:35:58 PM	Fe 238.204	0.050127164	mg/L	0.05	0.25	Fe	
5/22/2024	1:35:58 PM	Mg 285.213	0.050685758	mg/L	0.05	1.37	Mg	
5/22/2024	1:35:58 PM	Mn 257.610	0.010229388	mg/L	0.01	2.29	Mn	
5/22/2024	1:35:58 PM	Mo 202.031	0.051364486	mg/L	0.05	2.73	Mo	
5/22/2024	1:35:58 PM	Ni 231.604	0.010272615	mg/L	0.01	2.73	Ni	
5/22/2024	1:35:58 PM	Pb 220.353	0.010185288	mg/L	0.01	1.85	Pb	
5/22/2024	1:35:58 PM	Sb 206.836	0.039660148	mg/L	0.05	-20.68	Sb	
5/22/2024	1:35:58 PM	Se 196.026	0.05166468	mg/L	0.05	3.33	Se	
5/22/2024	1:35:58 PM	Sn 189.927	0.098023603	mg/L	0.1	-1.98	Sn	
5/22/2024	1:35:58 PM	Ti 337.279	0.020236373	mg/L	0.02	1.18	Ti	
5/22/2024	1:35:58 PM	Tl 351.924	0.039398413	mg/L	0.05	-21.20	Tl	
5/22/2024	1:35:58 PM	V 290.880	0.009930463	mg/L	0.01	-0.70	V	
5/22/2024	1:35:58 PM	Zn 206.200	0.010681304	mg/L	0.01	6.81	Zn	
5/22/2024	1:58:02 PM	Yaxial		%				
5/22/2024	1:58:02 PM	Yradial		%	CAL-5			
5/22/2024	1:58:02 PM	Ag 328.068	2.471814233	mg/L	2.5	-1	Ag	
5/22/2024	1:58:02 PM	Al 396.153	9.930310575	mg/L	10	-1	Al	
5/22/2024	1:58:02 PM	As 188.979	4.892970772	mg/L	5	-2	As	
5/22/2024	1:58:02 PM	B 208.889	4.741906794	mg/L	5	-5	B	
5/22/2024	1:58:02 PM	Ba 233.527	5.047998662	mg/L	5	1	Ba	
5/22/2024	1:58:02 PM	Be 313.107	4.924794935	mg/L	5	-2	Be	
5/22/2024	1:58:02 PM	Ca 317.933	10.06296861	mg/L	10	1	Ca	
5/22/2024	1:58:02 PM	Cd 228.802	4.948719175	mg/L	5	-1	Cd	
5/22/2024	1:58:02 PM	Co 228.616	5.015453404	mg/L	5	0	Co	
5/22/2024	1:58:02 PM	Cr 267.716	5.009729661	mg/L	5	0	Cr	
5/22/2024	1:58:02 PM	Cu 327.393	4.945039627	mg/L	5	-1	Cu	
5/22/2024	1:58:02 PM	Fe 238.204	5.070048598	mg/L	5	1	Fe	
5/22/2024	1:58:02 PM	K 766.490	9.959172386	mg/L	10	0	K	
5/22/2024	1:58:02 PM	Mg 285.213	10.09324171	mg/L	10	1	Mg	
5/22/2024	1:58:02 PM	Mn 257.610	5.015275232	mg/L	5	0	Mn	
5/22/2024	1:58:02 PM	Mo 202.031	5.022776181	mg/L	5	0	Mo	
5/22/2024	1:58:02 PM	Na 589.592	9.984947213	mg/L	10	0	Na	
5/22/2024	1:58:02 PM	Ni 231.604	5.023476583	mg/L	5	0	Ni	
5/22/2024	1:58:02 PM	Pb 220.353	4.996388711	mg/L	5	0	Pb	
5/22/2024	1:58:02 PM	Sb 206.836	4.900545366	mg/L	5	-2	Sb	
5/22/2024	1:58:02 PM	Se 196.026	4.945945705	mg/L	5	-1	Se	
5/22/2024	1:58:02 PM	Sn 189.927	5.015032238	mg/L	5	0	Sn	
5/22/2024	1:58:02 PM	Ti 337.279	5.008517447	mg/L	5	0	Ti	
5/22/2024	1:58:02 PM	Tl 351.924	2.408073402	mg/L	2.5	-4	Tl	
5/22/2024	1:58:02 PM	V 290.880	4.98823926	mg/L	5	0	V	
5/22/2024	1:58:02 PM	Zn 206.200	5.04290788	mg/L	5	1	Zn	
5/22/2024	1:58:02 PM	Zr 343.823	4.976372018	mg/L	5	0	Zr	

	Pass
	Fails 610D
	Fails 6010D and 200.7

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Analysis Begun

Start Time: 5/22/2024 2:42:12 PM **Plasma On Time: 5/22/2024 7:48:16 AM**
Logged In Analyst: ICP2 **Technique: ICP Continuous**
Spectrometer: Optima 4300 DV, S/N 069N-na **Autosampler: S10**

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0522A24.sif
Batch ID: Optima 2
Results Data Set: 0522B24
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

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Method Loaded
Method Name: ICP2 111223-IEC **Method Last Saved: 5/22/2024 1:27:59 PM**
IEC File: 111223-IEC.iec **MSF File:**
Method Description: Soils and Waters

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Al 396.153	Lin Thru 0	Peak Area	Radial	Y radial	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Y axial	Yes
B 208.889	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ba 233.527	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Be 313.107	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	Y radial	No
Cd 228.802	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cu 327.393	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Fe 238.204	Lin Thru 0	Peak Area	Radial	Y radial	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	Y radial	No
Mg 285.213	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mn 257.610	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	Y axial	No
Na 589.592	Lin Thru 0	Peak Area	Radial	Y radial	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ti 337.279	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Tl 351.924	Lin Thru 0	Peak Area	Axial	Y axial	Yes
V 290.880	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Zn 206.200	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Y axial	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Y radial	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Zr 343.823	Lin Thru 0	Peak Area	Axial	Y axial	Yes

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Sequence No.: 1 **Autosampler Location: 8**
Sample ID: SEQ-ICV@ 23K0257 **Date Collected: 5/22/2024 2:42:12 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time:

Replicate Data: SEQ-ICV@ 23K0257

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Y radial	213703.6	213703.6	103.5	%			2:43:23 PM
1	Al 396.153†	8120.6	7841.1	1.943	mg/L	1.943	mg/L	2:43:25 PM
1	Be 313.107†	851857.3	822177.0	2.023	mg/L	2.023	mg/L	2:43:23 PM
1	Ca 317.933†	15352.0	13414.9	1.913	mg/L	1.913	mg/L	2:43:25 PM
1	Fe 238.204†	5334.1	5119.8	2.039	mg/L	2.039	mg/L	2:43:25 PM
1	K 766.490†	6825.5	5958.2	1.914	mg/L	1.914	mg/L	2:43:25 PM
1	Mg 285.213†	20316.4	19035.1	1.967	mg/L	1.967	mg/L	2:43:25 PM
1	Mn 257.610†	58179.3	56079.6	1.969	mg/L	1.969	mg/L	2:43:25 PM

1	Na 589.592†	17043.6	16176.9	1.937 mg/L	1.937 mg/L	2:43:25 PM
1	Ti 337.279†	39451.4	37956.1	1.959 mg/L	1.959 mg/L	2:43:25 PM
1	Y axial	4094689.5	4094689.5	98.12 %		2:43:41 PM
1	Ag 328.068†	212653.0	219510.5	0.9414 mg/L	0.9414 mg/L	2:43:44 PM
1	As 188.979†	4444.6	4556.1	1.982 mg/L	1.982 mg/L	2:44:04 PM
1	B 208.889†	28108.8	28532.9	1.907 mg/L	1.907 mg/L	2:43:44 PM
1	Ba 233.527†	246115.3	250841.1	2.062 mg/L	2.062 mg/L	2:43:44 PM
1	Cd 228.802†	167817.0	170935.4	2.005 mg/L	2.005 mg/L	2:43:44 PM
1	Co 228.616†	146797.0	149380.3	2.037 mg/L	2.037 mg/L	2:43:44 PM
1	Cr 267.716†	186625.3	189699.6	2.045 mg/L	2.045 mg/L	2:43:44 PM
1	Cu 327.393†	283926.4	289855.1	2.022 mg/L	2.022 mg/L	2:43:41 PM
1	Mo 202.031†	37242.8	37943.8	2.014 mg/L	2.014 mg/L	2:43:44 PM
1	Ni 231.604†	57854.1	58418.0	2.053 mg/L	2.053 mg/L	2:43:44 PM
1	Pb 220.353†	17200.2	17526.8	2.020 mg/L	2.020 mg/L	2:43:44 PM
1	Sb 206.836†	9015.9	9150.6	1.977 mg/L	1.977 mg/L	2:44:04 PM
1	Se 196.026†	2531.7	2582.2	1.970 mg/L	1.970 mg/L	2:44:04 PM
1	Sn 189.927†	11924.1	12160.2	2.039 mg/L	2.039 mg/L	2:44:04 PM
1	Tl 351.924†	9468.1	9474.6	0.9524 mg/L	0.9524 mg/L	2:43:44 PM
1	V 290.880†	321833.0	322687.7	2.019 mg/L	2.019 mg/L	2:43:44 PM
1	Zn 206.200†	89331.4	90861.3	2.012 mg/L	2.012 mg/L	2:43:44 PM
1	Zr 343.823†	659000.6	671035.2	1.986 mg/L	1.986 mg/L	2:43:41 PM
2	Y radial	204571.8	204571.8	99.10 %		2:43:27 PM
2	Al 396.153†	8011.3	8081.0	2.004 mg/L	2.004 mg/L	2:43:30 PM
2	Be 313.107†	819652.5	826411.2	2.033 mg/L	2.033 mg/L	2:43:27 PM
2	Ca 317.933†	15183.7	13907.0	1.984 mg/L	1.984 mg/L	2:43:30 PM
2	Fe 238.204†	5284.9	5300.1	2.110 mg/L	2.110 mg/L	2:43:30 PM
2	K 766.490†	6690.2	6116.0	1.964 mg/L	1.964 mg/L	2:43:30 PM
2	Mg 285.213†	20069.7	19662.3	2.033 mg/L	2.033 mg/L	2:43:30 PM
2	Mn 257.610†	57464.5	57867.0	2.032 mg/L	2.032 mg/L	2:43:30 PM
2	Na 589.592†	16889.6	16756.4	2.007 mg/L	2.007 mg/L	2:43:30 PM
2	Ti 337.279†	39085.2	39287.7	2.027 mg/L	2.027 mg/L	2:43:30 PM
2	Y axial	4116752.3	4116752.3	98.64 %		2:44:06 PM
2	Ag 328.068†	216574.8	222324.7	0.9535 mg/L	0.9535 mg/L	2:44:08 PM
2	As 188.979†	4459.6	4547.1	1.979 mg/L	1.979 mg/L	2:44:29 PM
2	B 208.889†	28450.6	28725.8	1.919 mg/L	1.919 mg/L	2:44:08 PM
2	Ba 233.527†	248593.7	252009.2	2.072 mg/L	2.072 mg/L	2:44:08 PM
2	Cd 228.802†	169371.0	171594.0	2.013 mg/L	2.013 mg/L	2:44:08 PM
2	Co 228.616†	148684.3	150491.7	2.052 mg/L	2.052 mg/L	2:44:08 PM
2	Cr 267.716†	188623.1	190705.4	2.056 mg/L	2.056 mg/L	2:44:08 PM
2	Cu 327.393†	285955.2	290361.0	2.026 mg/L	2.026 mg/L	2:44:06 PM
2	Mo 202.031†	37871.0	38377.2	2.037 mg/L	2.037 mg/L	2:44:08 PM
2	Ni 231.604†	58592.2	58850.2	2.068 mg/L	2.068 mg/L	2:44:08 PM
2	Pb 220.353†	17465.4	17701.6	2.041 mg/L	2.041 mg/L	2:44:08 PM
2	Sb 206.836†	9063.8	9150.0	1.977 mg/L	1.977 mg/L	2:44:29 PM
2	Se 196.026†	2551.8	2588.8	1.975 mg/L	1.975 mg/L	2:44:29 PM
2	Sn 189.927†	11980.7	12152.5	2.038 mg/L	2.038 mg/L	2:44:29 PM
2	Tl 351.924†	9543.4	9499.2	0.9547 mg/L	0.9547 mg/L	2:44:08 PM
2	V 290.880†	325108.3	324250.1	2.028 mg/L	2.028 mg/L	2:44:08 PM
2	Zn 206.200†	91148.5	92215.5	2.042 mg/L	2.042 mg/L	2:44:08 PM
2	Zr 343.823†	665744.7	674272.4	1.996 mg/L	1.996 mg/L	2:44:06 PM
3	Y radial	212924.7	212924.7	103.1 %		2:43:32 PM
3	Al 396.153†	8107.0	7856.6	1.945 mg/L	1.945 mg/L	2:43:34 PM
3	Be 313.107†	848644.0	822071.8	2.022 mg/L	2.022 mg/L	2:43:32 PM
3	Ca 317.933†	15548.2	13659.3	1.948 mg/L	1.948 mg/L	2:43:34 PM
3	Fe 238.204†	5371.6	5175.0	2.061 mg/L	2.061 mg/L	2:43:34 PM
3	K 766.490†	6862.8	6018.5	1.933 mg/L	1.933 mg/L	2:43:34 PM
3	Mg 285.213†	20292.1	19083.4	1.972 mg/L	1.972 mg/L	2:43:34 PM
3	Mn 257.610†	58397.9	56497.1	1.984 mg/L	1.984 mg/L	2:43:34 PM
3	Na 589.592†	17106.0	16297.6	1.952 mg/L	1.952 mg/L	2:43:34 PM
3	Ti 337.279†	39721.7	38357.6	1.979 mg/L	1.979 mg/L	2:43:34 PM
3	Y axial	4073543.1	4073543.1	97.61 %		2:44:31 PM
3	Ag 328.068†	220643.2	228821.5	0.9819 mg/L	0.9819 mg/L	2:44:33 PM
3	As 188.979†	4441.3	4576.3	1.991 mg/L	1.991 mg/L	2:44:53 PM
3	B 208.889†	28808.9	29398.8	1.966 mg/L	1.966 mg/L	2:44:33 PM
3	Ba 233.527†	249571.9	255684.6	2.102 mg/L	2.102 mg/L	2:44:33 PM
3	Cd 228.802†	170404.8	174474.5	2.048 mg/L	2.048 mg/L	2:44:33 PM
3	Co 228.616†	149039.5	152454.4	2.079 mg/L	2.079 mg/L	2:44:33 PM
3	Cr 267.716†	189069.3	193190.8	2.083 mg/L	2.083 mg/L	2:44:33 PM
3	Cu 327.393†	283669.7	291094.4	2.031 mg/L	2.031 mg/L	2:44:31 PM
3	Mo 202.031†	37837.3	38750.0	2.056 mg/L	2.056 mg/L	2:44:33 PM

3	Ni 231.604†	58561.4	59448.7	2.090 mg/L	2.090 mg/L	2:44:33 PM
3	Pb 220.353†	17442.7	17866.2	2.060 mg/L	2.060 mg/L	2:44:33 PM
3	Sb 206.836†	9037.8	9220.8	1.992 mg/L	1.992 mg/L	2:44:53 PM
3	Se 196.026†	2553.3	2617.7	1.997 mg/L	1.997 mg/L	2:44:53 PM
3	Sn 189.927†	11977.8	12278.3	2.059 mg/L	2.059 mg/L	2:44:53 PM
3	Tl 351.924†	9693.3	9755.5	0.9809 mg/L	0.9809 mg/L	2:44:33 PM
3	V 290.880†	327632.2	330331.7	2.066 mg/L	2.066 mg/L	2:44:33 PM
3	Zn 206.200†	90634.3	92668.7	2.052 mg/L	2.052 mg/L	2:44:33 PM
3	Zr 343.823†	657437.7	672920.7	1.992 mg/L	1.992 mg/L	2:44:31 PM
4	Y radial	207984.8	207984.8	100.8 %		2:43:36 PM
4	Al 396.153†	7959.9	7897.3	1.956 mg/L	1.956 mg/L	2:43:38 PM
4	Be 313.107†	829586.2	822697.9	2.024 mg/L	2.024 mg/L	2:43:36 PM
4	Ca 317.933†	15276.8	13747.9	1.961 mg/L	1.961 mg/L	2:43:38 PM
4	Fe 238.204†	5253.5	5181.5	2.063 mg/L	2.063 mg/L	2:43:38 PM
4	K 766.490†	6791.3	6105.5	1.961 mg/L	1.961 mg/L	2:43:38 PM
4	Mg 285.213†	19995.3	19256.1	1.990 mg/L	1.990 mg/L	2:43:38 PM
4	Mn 257.610†	57454.8	56905.8	1.998 mg/L	1.998 mg/L	2:43:38 PM
4	Na 589.592†	16810.2	16398.0	1.964 mg/L	1.964 mg/L	2:43:38 PM
4	Ti 337.279†	38961.0	38517.2	1.988 mg/L	1.988 mg/L	2:43:38 PM
4	Y axial	4074504.2	4074504.2	97.63 %		2:44:56 PM
4	Ag 328.068†	212924.7	220862.5	0.9472 mg/L	0.9472 mg/L	2:44:58 PM
4	As 188.979†	4465.7	4600.2	2.001 mg/L	2.001 mg/L	2:45:18 PM
4	B 208.889†	28449.1	29023.3	1.940 mg/L	1.940 mg/L	2:44:58 PM
4	Ba 233.527†	247010.5	253000.7	2.080 mg/L	2.080 mg/L	2:44:58 PM
4	Cd 228.802†	168667.9	172654.2	2.025 mg/L	2.025 mg/L	2:44:58 PM
4	Co 228.616†	147390.3	150729.2	2.055 mg/L	2.055 mg/L	2:44:58 PM
4	Cr 267.716†	186950.6	190975.0	2.059 mg/L	2.059 mg/L	2:44:58 PM
4	Cu 327.393†	285440.9	292839.9	2.043 mg/L	2.043 mg/L	2:44:56 PM
4	Mo 202.031†	37501.1	38396.5	2.038 mg/L	2.038 mg/L	2:44:58 PM
4	Ni 231.604†	57924.0	58781.6	2.066 mg/L	2.066 mg/L	2:44:58 PM
4	Pb 220.353†	17323.2	17739.6	2.045 mg/L	2.045 mg/L	2:44:58 PM
4	Sb 206.836†	9086.2	9268.1	2.003 mg/L	2.003 mg/L	2:45:18 PM
4	Se 196.026†	2568.4	2632.5	2.008 mg/L	2.008 mg/L	2:45:18 PM
4	Sn 189.927†	12028.2	12327.0	2.067 mg/L	2.067 mg/L	2:45:18 PM
4	Tl 351.924†	9451.9	9505.8	0.9554 mg/L	0.9554 mg/L	2:44:58 PM
4	V 290.880†	323920.0	326450.3	2.042 mg/L	2.042 mg/L	2:44:58 PM
4	Zn 206.200†	90489.0	92498.0	2.048 mg/L	2.048 mg/L	2:44:58 PM
4	Zr 343.823†	660340.3	675734.8	2.000 mg/L	2.000 mg/L	2:44:56 PM

Mean Data: SEQ-ICV@ 23K0257

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	4089872.3	98.00	%	0.489				0.50%
Y radial	209796.2	101.6	%	2.09				2.05%
Ag 328.068†	222879.8	0.9560	mg/L	0.01793	0.9560	mg/L	0.01793	1.88%
QC value within limits for Ag 328.068 Recovery = 95.60%								
Al 396.153†	7919.0	1.962	mg/L	0.0288	1.962	mg/L	0.0288	1.47%
QC value within limits for Al 396.153 Recovery = 98.10%								
As 188.979†	4569.9	1.988	mg/L	0.0101	1.988	mg/L	0.0101	0.51%
QC value within limits for As 188.979 Recovery = 99.41%								
B 208.889†	28920.2	1.933	mg/L	0.0257	1.933	mg/L	0.0257	1.33%
QC value within limits for B 208.889 Recovery = 96.65%								
Ba 233.527†	252883.9	2.079	mg/L	0.0170	2.079	mg/L	0.0170	0.82%
QC value within limits for Ba 233.527 Recovery = 103.94%								
Be 313.107†	823339.5	2.026	mg/L	0.0051	2.026	mg/L	0.0051	0.25%
QC value within limits for Be 313.107 Recovery = 101.28%								
Ca 317.933†	13682.3	1.951	mg/L	0.0293	1.951	mg/L	0.0293	1.50%
QC value within limits for Ca 317.933 Recovery = 97.57%								
Cd 228.802†	172414.5	2.023	mg/L	0.0184	2.023	mg/L	0.0184	0.91%
QC value within limits for Cd 228.802 Recovery = 101.15%								
Co 228.616†	150763.9	2.056	mg/L	0.0174	2.056	mg/L	0.0174	0.84%
QC value within limits for Co 228.616 Recovery = 102.79%								
Cr 267.716†	191142.7	2.061	mg/L	0.0159	2.061	mg/L	0.0159	0.77%
QC value within limits for Cr 267.716 Recovery = 103.04%								
Cu 327.393†	291037.6	2.030	mg/L	0.0091	2.030	mg/L	0.0091	0.45%
QC value within limits for Cu 327.393 Recovery = 101.52%								
Fe 238.204†	5194.1	2.068	mg/L	0.0301	2.068	mg/L	0.0301	1.45%
QC value within limits for Fe 238.204 Recovery = 103.42%								
K 766.490†	6049.6	1.943	mg/L	0.0241	1.943	mg/L	0.0241	1.24%

QC value within limits for K 766.490 Recovery = 97.15%

Mg 285.213†	19259.2	1.991 mg/L	0.0296	1.991 mg/L	0.0296	1.49%

QC value within limits for Mg 285.213 Recovery = 99.54%

Mn 257.610†	56837.3	1.996 mg/L	0.0269	1.996 mg/L	0.0269	1.35%

QC value within limits for Mn 257.610 Recovery = 99.80%

Mo 202.031†	38366.9	2.036 mg/L	0.0175	2.036 mg/L	0.0175	0.86%

QC value within limits for Mo 202.031 Recovery = 101.80%

Na 589.592†	16407.2	1.965 mg/L	0.0299	1.965 mg/L	0.0299	1.52%

QC value within limits for Na 589.592 Recovery = 98.24%

Ni 231.604†	58874.6	2.069 mg/L	0.0150	2.069 mg/L	0.0150	0.73%

QC value within limits for Ni 231.604 Recovery = 103.47%

Pb 220.353†	17708.5	2.041 mg/L	0.0162	2.041 mg/L	0.0162	0.79%

QC value within limits for Pb 220.353 Recovery = 102.07%

Sb 206.836†	9197.4	1.988 mg/L	0.0126	1.988 mg/L	0.0126	0.63%

QC value within limits for Sb 206.836 Recovery = 99.38%

Se 196.026†	2605.3	1.988 mg/L	0.0182	1.988 mg/L	0.0182	0.91%

QC value within limits for Se 196.026 Recovery = 99.38%

Sn 189.927†	12229.5	2.051 mg/L	0.0146	2.051 mg/L	0.0146	0.71%

QC value within limits for Sn 189.927 Recovery = 102.53%

Ti 337.279†	38529.7	1.988 mg/L	0.0288	1.988 mg/L	0.0288	1.45%

QC value within limits for Ti 337.279 Recovery = 99.41%

Tl 351.924†	9558.8	0.9609 mg/L	0.01341	0.9609 mg/L	0.01341	1.40%

QC value within limits for Tl 351.924 Recovery = 96.09%

V 290.880†	325929.9	2.039 mg/L	0.0207	2.039 mg/L	0.0207	1.02%

QC value within limits for V 290.880 Recovery = 101.95%

Zn 206.200†	92060.9	2.039 mg/L	0.0181	2.039 mg/L	0.0181	0.89%

QC value within limits for Zn 206.200 Recovery = 101.93%

Zr 343.823†	673490.8	1.993 mg/L	0.0059	1.993 mg/L	0.0059	0.30%

All analyte(s) passed QC.
User canceled analysis.

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Analysis Begun

Start Time: 5/22/2024 2:49:43 PM **Plasma On Time: 5/22/2024 7:48:16 AM**
Logged In Analyst: ICP2 **Technique: ICP Continuous**
Spectrometer: Optima 4300 DV, S/N 069N-na **Autosampler: S10**

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0522A24.sif
Batch ID: Optima 2
Results Data Set: 0522B24
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

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Method Loaded
Method Name: ICP2 111223-IEC **Method Last Saved: 5/22/2024 2:45:21 PM**
IEC File: 111223-IEC.iec **MSF File:**
Method Description: Soils and Waters

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Al 396.153	Lin Thru 0	Peak Area	Radial	Y radial	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Y axial	Yes
B 208.889	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ba 233.527	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Be 313.107	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	Y radial	No
Cd 228.802	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cu 327.393	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Fe 238.204	Lin Thru 0	Peak Area	Radial	Y radial	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	Y radial	No
Mg 285.213	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mn 257.610	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	Y axial	No
Na 589.592	Lin Thru 0	Peak Area	Radial	Y radial	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Y axial	Yes

Se 196.026	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ti 337.279	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Tl 351.924	Lin Thru 0	Peak Area	Axial	Y axial	Yes
V 290.880	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Zn 206.200	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Y axial	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Y radial	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Zr 343.823	Lin Thru 0	Peak Area	Axial	Y axial	Yes

Sequence No.: 2 **Autosampler Location: 1**
Sample ID: SEQ-ICB@ 23J0970 **Date Collected: 5/22/2024 2:49:44 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time:

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Mean Data: SEQ-ICB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y axial	4214218.7	101.0	%	1.35				1.34%
Y radial	206969.3	100.3	%	1.74				1.74%
Ag 328.068†	-78.2	-0.0003	mg/L	0.00013	-0.0003	mg/L	0.00013	37.21%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	18.7	0.0049	mg/L	0.00187	0.0049	mg/L	0.00187	38.40%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	1.5	0.0006	mg/L	0.00061	0.0006	mg/L	0.00061	96.35%
QC value within limits for As 188.979 Recovery = Not calculated								
B 208.889†	40.1	0.0028	mg/L	0.00055	0.0028	mg/L	0.00055	19.69%
QC value within limits for B 208.889 Recovery = Not calculated								
Ba 233.527†	-10.9	-0.0001	mg/L	0.00001	-0.0001	mg/L	0.00001	7.87%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-20.7	-0.0000	mg/L	0.00001	-0.0000	mg/L	0.00001	18.55%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	-30.6	-0.0044	mg/L	0.00256	-0.0044	mg/L	0.00256	58.67%
QC value within limits for Ca 317.933 Recovery = Not calculated								
Cd 228.802†	3.1	0.0000	mg/L	0.00009	0.0000	mg/L	0.00009	481.64%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	-37.0	-0.0005	mg/L	0.00009	-0.0005	mg/L	0.00009	17.08%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	14.5	0.0002	mg/L	0.00002	0.0002	mg/L	0.00002	13.57%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	776.1	0.0054	mg/L	0.00042	0.0054	mg/L	0.00042	7.87%
QC value greater than the upper limit for Cu 327.393 Recovery = Not calculated								
Fe 238.204†	-33.0	-0.0131	mg/L	0.00176	-0.0131	mg/L	0.00176	13.46%
QC value within limits for Fe 238.204 Recovery = Not calculated								
K 766.490†	19.8	0.0064	mg/L	0.01782	0.0064	mg/L	0.01782	279.50%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213†	-13.0	-0.0014	mg/L	0.00184	-0.0014	mg/L	0.00184	135.09%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610†	-30.3	-0.0011	mg/L	0.00020	-0.0011	mg/L	0.00020	18.64%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	16.0	0.0008	mg/L	0.00003	0.0008	mg/L	0.00003	3.12%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592†	-5.1	-0.0006	mg/L	0.00070	-0.0006	mg/L	0.00070	113.51%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604†	-71.1	-0.0025	mg/L	0.00045	-0.0025	mg/L	0.00045	18.21%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-0.9	-0.0001	mg/L	0.00019	-0.0001	mg/L	0.00019	167.03%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	0.7	0.0002	mg/L	0.00105	0.0002	mg/L	0.00105	664.20%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-0.1	-0.0001	mg/L	0.00342	-0.0001	mg/L	0.00342	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	4.9	0.0008	mg/L	0.00067	0.0008	mg/L	0.00067	82.78%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 337.279†	-0.9	-0.0000	mg/L	0.00027	-0.0000	mg/L	0.00027	562.63%
QC value within limits for Ti 337.279 Recovery = Not calculated								

Tl 351.924†	-19.5	-0.0020 mg/L	0.00155	-0.0020 mg/L	0.00155	77.77%
QC value within limits for Tl 351.924 Recovery = Not calculated						
V 290.880†	-405.6	-0.0025 mg/L	0.00020	-0.0025 mg/L	0.00020	7.75%
QC value within limits for V 290.880 Recovery = Not calculated						
Zn 206.200†	53.0	0.0012 mg/L	0.00018	0.0012 mg/L	0.00018	15.67%
QC value within limits for Zn 206.200 Recovery = Not calculated						
Zr 343.823†	12.9	0.0000 mg/L	0.00011	0.0000 mg/L	0.00011	281.50%
QC Failed. Continue with analysis.						

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Sequence No.: 3
Sample ID: SEQ-LCV@ 23J0971
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 10
Date Collected: 5/22/2024 2:55:14 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: SEQ-LCV@ 23J0971

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	4135531.7	99.09	%	1.252				1.26%
Y radial	210342.3	101.9	%	1.81				1.78%
Ag 328.068†	2364.9	0.0102	mg/L	0.00008	0.0102	mg/L	0.00008	0.75%
QC value within limits for Ag 328.068 Recovery = 102.49%								
Al 396.153†	187.4	0.0469	mg/L	0.00508	0.0469	mg/L	0.00508	10.84%
QC value within limits for Al 396.153 Recovery = 93.74%								
As 188.979†	20.9	0.0089	mg/L	0.00134	0.0089	mg/L	0.00134	15.15%
QC value within limits for As 188.979 Recovery = 88.66%								
B 208.889†	1390.4	0.0952	mg/L	0.00073	0.0952	mg/L	0.00073	0.77%
QC value within limits for B 208.889 Recovery = 95.25%								
Ba 233.527†	6483.2	0.0532	mg/L	0.00061	0.0532	mg/L	0.00061	1.15%
QC value within limits for Ba 233.527 Recovery = 106.46%								
Be 313.107†	1633.7	0.0040	mg/L	0.00006	0.0040	mg/L	0.00006	1.57%
QC value within limits for Be 313.107 Recovery = 99.92%								
Ca 317.933†	3564.7	0.5084	mg/L	0.00910	0.5084	mg/L	0.00910	1.79%
QC value within limits for Ca 317.933 Recovery = 101.69%								
Cd 228.802†	358.7	0.0041	mg/L	0.00010	0.0041	mg/L	0.00010	2.42%
QC value within limits for Cd 228.802 Recovery = 102.92%								
Co 228.616†	725.5	0.0100	mg/L	0.00013	0.0100	mg/L	0.00013	1.27%
QC value within limits for Co 228.616 Recovery = 100.01%								
Cr 267.716†	1040.9	0.0112	mg/L	0.00015	0.0112	mg/L	0.00015	1.36%
QC value within limits for Cr 267.716 Recovery = 112.18%								
Cu 327.393†	1820.1	0.0127	mg/L	0.00024	0.0127	mg/L	0.00024	1.92%
QC value greater than the upper limit for Cu 327.393 Recovery = 126.58%								
Fe 238.204†	99.2	0.0394	mg/L	0.00159	0.0394	mg/L	0.00159	4.04%
QC value less than the lower limit for Fe 238.204 Recovery = 78.71%								
K 766.490†	6220.5	1.998	mg/L	0.0066	1.998	mg/L	0.0066	0.33%
QC value within limits for K 766.490 Recovery = 99.89%								
Mg 285.213†	469.8	0.0487	mg/L	0.00324	0.0487	mg/L	0.00324	6.67%
QC value within limits for Mg 285.213 Recovery = 97.33%								
Mn 257.610†	250.9	0.0088	mg/L	0.00027	0.0088	mg/L	0.00027	3.06%
QC value within limits for Mn 257.610 Recovery = 88.14%								
Mo 202.031†	978.0	0.0519	mg/L	0.00095	0.0519	mg/L	0.00095	1.84%
QC value within limits for Mo 202.031 Recovery = 103.80%								
Na 589.592†	17043.2	2.041	mg/L	0.0068	2.041	mg/L	0.0068	0.33%
QC value within limits for Na 589.592 Recovery = 102.04%								
Ni 231.604†	222.9	0.0078	mg/L	0.00057	0.0078	mg/L	0.00057	7.26%
QC value less than the lower limit for Ni 231.604 Recovery = 78.16%								
Pb 220.353†	92.4	0.0107	mg/L	0.00011	0.0107	mg/L	0.00011	1.00%
QC value within limits for Pb 220.353 Recovery = 107.16%								
Sb 206.836†	176.8	0.0390	mg/L	0.00064	0.0390	mg/L	0.00064	1.65%
QC value less than the lower limit for Sb 206.836 Recovery = 78.04%								
Se 196.026†	68.1	0.0519	mg/L	0.00130	0.0519	mg/L	0.00130	2.50%
QC value within limits for Se 196.026 Recovery = 103.76%								
Sn 189.927†	593.6	0.0996	mg/L	0.00160	0.0996	mg/L	0.00160	1.60%
QC value within limits for Sn 189.927 Recovery = 99.62%								
Ti 337.279†	386.2	0.0199	mg/L	0.00073	0.0199	mg/L	0.00073	3.65%
QC value within limits for Ti 337.279 Recovery = 99.69%								
Tl 351.924†	410.8	0.0419	mg/L	0.00264	0.0419	mg/L	0.00264	6.28%

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QC value within limits for Tl 351.924 Recovery = 83.86%

V 290.880†	1567.8	0.0098 mg/L	0.00072	0.0098 mg/L	0.00072 7.39%
QC value within limits for V 290.880 Recovery = 97.94%					
Zn 206.200†	488.8	0.0106 mg/L	0.00027	0.0106 mg/L	0.00027 2.55%
QC value within limits for Zn 206.200 Recovery = 106.23%					
Zr 343.823†	464.1	0.0014 mg/L	0.00027	0.0014 mg/L	0.00027 19.95%

QC Failed. Continue with analysis.

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Sequence No.: 4 **Autosampler Location: 5**
Sample ID: SEQ-CCV@ 23J0975 **Date Collected: 5/22/2024 3:00:46 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 110 **Auto Dilution Factor: 1**

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	4054450.5	97.15	%	0.363				0.37%
Y radial	206237.3	99.91	%	1.411				1.41%
Ag 328.068†	562067.3	2.410	mg/L	0.0054	2.410	mg/L	0.0054	0.22%
QC value within limits for Ag 328.068 Recovery = 96.42%								
Al 396.153†	39719.8	10.11	mg/L	0.161	10.11	mg/L	0.161	1.59%
QC value within limits for Al 396.153 Recovery = 101.13%								
As 188.979†	11248.7	4.895	mg/L	0.0387	4.895	mg/L	0.0387	0.79%
QC value within limits for As 188.979 Recovery = 97.90%								
B 208.889†	71197.9	4.757	mg/L	0.0145	4.757	mg/L	0.0145	0.31%
QC value within limits for B 208.889 Recovery = 95.13%								
Ba 233.527†	619184.3	5.090	mg/L	0.0055	5.090	mg/L	0.0055	0.11%
QC value within limits for Ba 233.527 Recovery = 101.79%								
Be 313.107†	2035023.0	5.007	mg/L	0.0055	5.007	mg/L	0.0055	0.11%
QC value within limits for Be 313.107 Recovery = 100.14%								
Ca 317.933†	70483.0	10.05	mg/L	0.162	10.05	mg/L	0.162	1.61%
QC value within limits for Ca 317.933 Recovery = 100.53%								
Cd 228.802†	425325.7	4.990	mg/L	0.0023	4.990	mg/L	0.0023	0.05%
QC value within limits for Cd 228.802 Recovery = 99.81%								
Co 228.616†	371154.8	5.061	mg/L	0.0078	5.061	mg/L	0.0078	0.15%
QC value within limits for Co 228.616 Recovery = 101.22%								
Cr 267.716†	467593.2	5.041	mg/L	0.0041	5.041	mg/L	0.0041	0.08%
QC value within limits for Cr 267.716 Recovery = 100.82%								
Cu 327.393†	717278.3	5.004	mg/L	0.0298	5.004	mg/L	0.0298	0.59%
QC value within limits for Cu 327.393 Recovery = 100.09%								
Fe 238.204†	12746.4	5.076	mg/L	0.0955	5.076	mg/L	0.0955	1.88%
QC value within limits for Fe 238.204 Recovery = 101.52%								
K 766.490†	31643.2	10.16	mg/L	0.127	10.16	mg/L	0.127	1.25%
QC value within limits for K 766.490 Recovery = 101.63%								
Mg 285.213†	97084.8	10.06	mg/L	0.157	10.06	mg/L	0.157	1.56%
QC value within limits for Mg 285.213 Recovery = 100.57%								
Mn 257.610†	142286.1	4.997	mg/L	0.0759	4.997	mg/L	0.0759	1.52%
QC value within limits for Mn 257.610 Recovery = 99.94%								
Mo 202.031†	95267.1	5.056	mg/L	0.0111	5.056	mg/L	0.0111	0.22%
QC value within limits for Mo 202.031 Recovery = 101.11%								
Na 589.592†	85601.6	10.25	mg/L	0.005	10.25	mg/L	0.005	0.05%
QC value within limits for Na 589.592 Recovery = 102.50%								
Ni 231.604†	143991.3	5.061	mg/L	0.0049	5.061	mg/L	0.0049	0.10%
QC value within limits for Ni 231.604 Recovery = 101.22%								
Pb 220.353†	43353.0	4.998	mg/L	0.0288	4.998	mg/L	0.0288	0.58%
QC value within limits for Pb 220.353 Recovery = 99.97%								
Sb 206.836†	22713.8	4.909	mg/L	0.0274	4.909	mg/L	0.0274	0.56%
QC value within limits for Sb 206.836 Recovery = 98.18%								
Se 196.026†	6459.4	4.926	mg/L	0.0310	4.926	mg/L	0.0310	0.63%
QC value within limits for Se 196.026 Recovery = 98.52%								
Sn 189.927†	29890.9	5.012	mg/L	0.0276	5.012	mg/L	0.0276	0.55%
QC value within limits for Sn 189.927 Recovery = 100.24%								
Ti 337.279†	97303.7	5.021	mg/L	0.0744	5.021	mg/L	0.0744	1.48%
QC value within limits for Ti 337.279 Recovery = 100.42%								
Tl 351.924†	24115.8	2.425	mg/L	0.0124	2.425	mg/L	0.0124	0.51%
QC value within limits for Tl 351.924 Recovery = 96.99%								

V 290.880† 796600.9 4.983 mg/L 0.0085 4.983 mg/L 0.0085 0.17%
QC value within limits for V 290.880 Recovery = 99.67%
Zn 206.200† 229588.1 5.083 mg/L 0.0092 5.083 mg/L 0.0092 0.18%
QC value within limits for Zn 206.200 Recovery = 101.65%
Zr 343.823† 1691903.0 5.007 mg/L 0.0010 5.007 mg/L 0.0010 0.02%
All analyte(s) passed QC.

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Sequence No.: 5 **Autosampler Location: 11**
Sample ID: SEQ-IFA@ 23I0975 **Date Collected: 5/22/2024 3:07:23 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 230 **Auto Dilution Factor: 1**

Mean Data: SEQ-IFA@ 23I0975

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	3731509.2	89.41	%	0.411				0.46%
Y radial	203812.5	98.73	%	1.143				1.16%
Ag 328.068†	-2107.7	-0.0071	mg/L	0.00022	-0.0071	mg/L	0.00022	3.07%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	966731.0	252.7	mg/L	0.32	252.7	mg/L	0.32	0.13%
QC value within limits for Al 396.153 Recovery = 101.07%								
As 188.979†	-91.0	-0.0058	mg/L	0.00338	-0.0058	mg/L	0.00338	58.13%
QC value within limits for As 188.979 Recovery = Not calculated								
B 208.889†	18.4	0.0014	mg/L	0.00123	0.0014	mg/L	0.00123	85.76%
QC value within limits for B 208.889 Recovery = Not calculated								
Ba 233.527†	1189.9	-0.0029	mg/L	0.00005	-0.0029	mg/L	0.00005	1.67%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	83.6	0.0002	mg/L	0.00001	0.0002	mg/L	0.00001	7.72%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	1685385.8	240.4	mg/L	0.99	240.4	mg/L	0.99	0.41%
QC value within limits for Ca 317.933 Recovery = 96.15%								
Cd 228.802†	-133.6	0.0005	mg/L	0.00009	0.0005	mg/L	0.00009	16.75%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	-3.5	-0.0001	mg/L	0.00029	-0.0001	mg/L	0.00029	458.29%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	280.8	0.0030	mg/L	0.00004	0.0030	mg/L	0.00004	1.42%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	1900.4	0.0132	mg/L	0.00086	0.0132	mg/L	0.00086	6.51%
QC value greater than the upper limit for Cu 327.393 Recovery = Not calculated SOIL OK- JLC 05/23/24								
Fe 238.204†	242015.0	95.87	mg/L	0.323	95.87	mg/L	0.323	0.34%
QC value within limits for Fe 238.204 Recovery = 95.87%								
K 766.490†	-19.3	-0.0062	mg/L	0.00317	-0.0062	mg/L	0.00317	51.28%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213†	2217652.3	230.3	mg/L	0.33	230.3	mg/L	0.33	0.14%
QC value within limits for Mg 285.213 Recovery = 92.12%								
Mn 257.610†	-148.5	0.0023	mg/L	0.00028	0.0023	mg/L	0.00028	12.50%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	-51.2	-0.0027	mg/L	0.00016	-0.0027	mg/L	0.00016	5.81%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592†	310.1	0.0371	mg/L	0.00320	0.0371	mg/L	0.00320	8.62%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604†	238.7	0.0084	mg/L	0.00011	0.0084	mg/L	0.00011	1.34%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-149.3	0.0111	mg/L	0.00126	0.0111	mg/L	0.00126	11.35%
QC value greater than the upper limit for Pb 220.353 Recovery = Not calculated SOIL/TCLP OK- JLC 05/23/24								
Sb 206.836†	20.0	0.0084	mg/L	0.00110	0.0084	mg/L	0.00110	13.14%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	26.7	-0.0469	mg/L	0.00577	-0.0469	mg/L	0.00577	12.29%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	-460.4	-0.0773	mg/L	0.00049	-0.0773	mg/L	0.00049	0.63%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 337.279†	10.5	0.0005	mg/L	0.00001	0.0005	mg/L	0.00001	2.36%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 351.924†	-694.0	-0.0087	mg/L	0.00256	-0.0087	mg/L	0.00256	29.42%
QC value within limits for Tl 351.924 Recovery = Not calculated								
V 290.880†	1268.1	0.0010	mg/L	0.00045	0.0010	mg/L	0.00045	45.84%

QC value within limits for V 290.880 Recovery = Not calculated
Zn 206.200† 312.1 0.0002 mg/L 0.00016 0.0002 mg/L 0.00016 75.55%
QC value within limits for Zn 206.200 Recovery = Not calculated
Zr 343.823† 1135.3 0.0011 mg/L 0.00002 0.0011 mg/L 0.00002 2.18%
QC Failed. Continue with analysis.

Sequence No.: 6 **Autosampler Location: 12**
Sample ID: SEQ-IFB@ 23I0976 **Date Collected: 5/22/2024 3:12:51 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 110 **Auto Dilution Factor: 1**

Mean Data: SEQ-IFB@ 23I0976

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y axial	3728614.6	89.34	%	0.941				1.05%
Y radial	201427.9	97.58	%	1.033				1.06%
Ag 328.068†	96733.3	0.4248	mg/L	0.00137	0.4248	mg/L	0.00137	0.32%
QC value within limits for Ag 328.068 Recovery = 106.20%								
Al 396.153†	985691.6	257.6	mg/L	0.16	257.6	mg/L	0.16	0.06%
QC value within limits for Al 396.153 Recovery = 103.05%								
As 188.979†	371.8	0.1912	mg/L	0.00180	0.1912	mg/L	0.00180	0.94%
QC value within limits for As 188.979 Recovery = 95.60%								
B 208.889†	-40.3	-0.0026	mg/L	0.00042	-0.0026	mg/L	0.00042	15.97%
QC value within limits for B 208.889 Recovery = Not calculated								
Ba 233.527†	123230.9	0.9999	mg/L	0.00181	0.9999	mg/L	0.00181	0.18%
QC value within limits for Ba 233.527 Recovery = 99.99%								
Be 313.107†	417458.1	1.027	mg/L	0.0007	1.027	mg/L	0.0007	0.07%
QC value within limits for Be 313.107 Recovery = 102.71%								
Ca 317.933†	1702892.9	242.9	mg/L	0.18	242.9	mg/L	0.18	0.08%
QC value within limits for Ca 317.933 Recovery = 97.15%								
Cd 228.802†	174256.1	2.083	mg/L	0.0058	2.083	mg/L	0.0058	0.28%
QC value within limits for Cd 228.802 Recovery = 104.15%								
Co 228.616†	68844.6	0.9373	mg/L	0.00212	0.9373	mg/L	0.00212	0.23%
QC value within limits for Co 228.616 Recovery = 93.73%								
Cr 267.716†	92421.3	0.9966	mg/L	0.00132	0.9966	mg/L	0.00132	0.13%
QC value within limits for Cr 267.716 Recovery = 99.66%								
Cu 327.393†	154757.9	1.076	mg/L	0.0047	1.076	mg/L	0.0047	0.44%
QC value within limits for Cu 327.393 Recovery = 107.59%								
Fe 238.204†	244529.2	96.87	mg/L	0.142	96.87	mg/L	0.142	0.15%
QC value within limits for Fe 238.204 Recovery = 96.87%								
K 766.490†	-13.9	-0.0045	mg/L	0.00664	-0.0045	mg/L	0.00664	149.04%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213†	2237193.9	232.3	mg/L	0.30	232.3	mg/L	0.30	0.13%
QC value within limits for Mg 285.213 Recovery = 92.93%								
Mn 257.610†	27029.3	0.9567	mg/L	0.00839	0.9567	mg/L	0.00839	0.88%
QC value within limits for Mn 257.610 Recovery = 95.67%								
Mo 202.031†	-77.6	-0.0041	mg/L	0.00009	-0.0041	mg/L	0.00009	2.22%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592†	312.4	0.0374	mg/L	0.00233	0.0374	mg/L	0.00233	6.22%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604†	53377.2	1.877	mg/L	0.0173	1.877	mg/L	0.0173	0.92%
QC value within limits for Ni 231.604 Recovery = 93.83%								
Pb 220.353†	661.3	0.1041	mg/L	0.00048	0.1041	mg/L	0.00048	0.46%
QC value within limits for Pb 220.353 Recovery = 104.13%								
Sb 206.836†	5183.6	1.117	mg/L	0.0179	1.117	mg/L	0.0179	1.60%
QC value within limits for Sb 206.836 Recovery = 93.05%								
Se 196.026†	762.7	0.5133	mg/L	0.00198	0.5133	mg/L	0.00198	0.39%
QC value within limits for Se 196.026 Recovery = 102.65%								
Sn 189.927†	-464.2	-0.0779	mg/L	0.00088	-0.0779	mg/L	0.00088	1.12%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 337.279†	7.6	0.0004	mg/L	0.00024	0.0004	mg/L	0.00024	60.89%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 351.924†	1396.9	0.2015	mg/L	0.00173	0.2015	mg/L	0.00173	0.86%
QC value within limits for Tl 351.924 Recovery = 100.76%								
V 290.880†	160048.9	0.9943	mg/L	0.00199	0.9943	mg/L	0.00199	0.20%
QC value within limits for V 290.880 Recovery = 99.43%								

Zn 206.200†	86470.6	1.904 mg/L	0.0095	1.904 mg/L	0.0095	0.50%	
QC value within limits for Zn 206.200 Recovery = 95.18%							
Zr 343.823†	1323.6	0.0016 mg/L	0.00003	0.0016 mg/L	0.00003	1.97%	

All analyte(s) passed QC.
User canceled analysis.

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Analysis Begun

Start Time: 5/22/2024 3:16:43 PM **Plasma On Time: 5/22/2024 7:48:16 AM**
Logged In Analyst: ICP2 **Technique: ICP Continuous**
Spectrometer: Optima 4300 DV, S/N 069N-na **Autosampler: S10**

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0522A24.sif
Batch ID: Optima 2
Results Data Set: 0522B24
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

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Sequence No.: 11 **Autosampler Location: 7**
Sample ID: RINSE **Date Collected: 5/22/2024 3:16:44 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time:

Mean Data: RINSE

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y axial	4197573.2	100.6	%	1.40				1.40%
Y radial	209571.2	101.5	%	0.44				0.44%
Ag 328.068†	86.5	0.0004	mg/L	0.00044	0.0004	mg/L	0.00044	118.93%
Al 396.153†	212.6	0.0556	mg/L	0.01500	0.0556	mg/L	0.01500	27.01%
As 188.979†	-0.1	-0.0001	mg/L	0.00050	-0.0001	mg/L	0.00050	928.71%
B 208.889†	-15.7	-0.0011	mg/L	0.00022	-0.0011	mg/L	0.00022	19.89%
Ba 233.527†	5.1	0.0000	mg/L	0.00006	0.0000	mg/L	0.00006	152.31%
Be 313.107†	93.9	0.0002	mg/L	0.00009	0.0002	mg/L	0.00009	38.71%
Ca 317.933†	363.8	0.0519	mg/L	0.01418	0.0519	mg/L	0.01418	27.32%
Cd 228.802†	73.2	0.0009	mg/L	0.00008	0.0009	mg/L	0.00008	8.86%
Co 228.616†	9.3	0.0001	mg/L	0.00009	0.0001	mg/L	0.00009	73.85%
Cr 267.716†	11.9	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	15.20%
Cu 327.393†	2284.8	0.0159	mg/L	0.00129	0.0159	mg/L	0.00129	8.13%
Fe 238.204†	90.2	0.0357	mg/L	0.00944	0.0357	mg/L	0.00944	26.42%
K 766.490†	45.3	0.0145	mg/L	0.02265	0.0145	mg/L	0.02265	155.78%
Mg 285.213†	791.3	0.0822	mg/L	0.01467	0.0822	mg/L	0.01467	17.85%
Mn 257.610†	-46.2	-0.0016	mg/L	0.00008	-0.0016	mg/L	0.00008	4.65%
Mo 202.031†	6.5	0.0003	mg/L	0.00021	0.0003	mg/L	0.00021	60.20%
Na 589.592†	-29.9	-0.0036	mg/L	0.00497	-0.0036	mg/L	0.00497	138.84%
Ni 231.604†	-2.0	-0.0001	mg/L	0.00040	-0.0001	mg/L	0.00040	601.16%
Pb 220.353†	3.1	0.0003	mg/L	0.00041	0.0003	mg/L	0.00041	120.20%
Sb 206.836†	62.0	0.0135	mg/L	0.00157	0.0135	mg/L	0.00157	11.61%
Se 196.026†	3.3	0.0025	mg/L	0.00101	0.0025	mg/L	0.00101	39.88%
Sn 189.927†	3.4	0.0006	mg/L	0.00041	0.0006	mg/L	0.00041	72.76%
Ti 337.279†	-2.7	-0.0001	mg/L	0.00019	-0.0001	mg/L	0.00019	135.71%
Tl 351.924†	-24.7	-0.0025	mg/L	0.00485	-0.0025	mg/L	0.00485	194.16%
V 290.880†	-97.2	-0.0006	mg/L	0.00028	-0.0006	mg/L	0.00028	45.63%
Zn 206.200†	387.8	0.0085	mg/L	0.00096	0.0085	mg/L	0.00096	11.22%
Zr 343.823†	40.9	0.0001	mg/L	0.00008	0.0001	mg/L	0.00008	64.11%

User canceled analysis.

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Analysis Begun

Start Time: 5/22/2024 3:30:07 PM **Plasma On Time: 5/22/2024 7:48:16 AM**
Logged In Analyst: ICP2 **Technique: ICP Continuous**
Spectrometer: Optima 4300 DV, S/N 069N-na **Autosampler: S10**

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0522A24.sif
Batch ID: Optima 2

Results Data Set: 0522B24
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

Sequence No.: 2 Autosampler Location: 1
Sample ID: SEQ-ICB@ 23J0970 Date Collected: 5/22/2024 3:30:08 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time:

REMAKE AND RERUN- JLC
05/23/24

Mean Data: SEQ-ICB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	4106236.1	98.39	%	0.144				0.15%
Y radial	207610.9	100.6	%	1.27				1.26%
Ag 328.068†	-129.9	-0.0006	mg/L	0.00022	-0.0006	mg/L	0.00022	39.70%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	14.1	0.0037	mg/L	0.00204	0.0037	mg/L	0.00204	55.15%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	-1.5	-0.0007	mg/L	0.00233	-0.0007	mg/L	0.00233	343.01%
QC value within limits for As 188.979 Recovery = Not calculated								
B 208.889†	-27.7	-0.0020	mg/L	0.00044	-0.0020	mg/L	0.00044	22.57%
QC value within limits for B 208.889 Recovery = Not calculated								
Ba 233.527†	-4.0	-0.0000	mg/L	0.00004	-0.0000	mg/L	0.00004	131.78%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-111.2	-0.0003	mg/L	0.00003	-0.0003	mg/L	0.00003	12.29%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	-7.7	-0.0011	mg/L	0.00187	-0.0011	mg/L	0.00187	170.00%
QC value within limits for Ca 317.933 Recovery = Not calculated								
Cd 228.802†	2.5	0.0000	mg/L	0.00001	0.0000	mg/L	0.00001	28.95%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	-67.3	-0.0009	mg/L	0.00005	-0.0009	mg/L	0.00005	5.25%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	14.5	0.0002	mg/L	0.00007	0.0002	mg/L	0.00007	42.51%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	192.0	0.0013	mg/L	0.00021	0.0013	mg/L	0.00021	15.90%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 238.204†	-33.6	-0.0133	mg/L	0.00094	-0.0133	mg/L	0.00094	7.11%
QC value within limits for Fe 238.204 Recovery = Not calculated								
K 766.490†	-24.6	-0.0079	mg/L	0.01023	-0.0079	mg/L	0.01023	129.39%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213†	295.2	0.0306	mg/L	0.00089	0.0306	mg/L	0.00089	2.90%
QC value greater than the upper limit for Mg 285.213 Recovery = Not calculated								
Mn 257.610†	-53.3	-0.0019	mg/L	0.00015	-0.0019	mg/L	0.00015	8.03%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	1.2	0.0001	mg/L	0.00023	0.0001	mg/L	0.00023	352.98%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592†	-30.2	-0.0036	mg/L	0.00528	-0.0036	mg/L	0.00528	146.18%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604†	-83.7	-0.0029	mg/L	0.00024	-0.0029	mg/L	0.00024	8.22%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	2.0	0.0002	mg/L	0.00001	0.0002	mg/L	0.00001	4.30%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-2.5	-0.0005	mg/L	0.00032	-0.0005	mg/L	0.00032	58.86%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-0.3	-0.0003	mg/L	0.00565	-0.0003	mg/L	0.00565	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	2.2	0.0004	mg/L	0.00062	0.0004	mg/L	0.00062	169.84%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 337.279†	-9.9	-0.0005	mg/L	0.00027	-0.0005	mg/L	0.00027	52.71%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 351.924†	-67.0	-0.0069	mg/L	0.00054	-0.0069	mg/L	0.00054	7.90%
QC value within limits for Tl 351.924 Recovery = Not calculated								
V 290.880†	-55.1	-0.0003	mg/L	0.00083	-0.0003	mg/L	0.00083	240.34%
QC value within limits for V 290.880 Recovery = Not calculated								
Zn 206.200†	-2.9	-0.0001	mg/L	0.00009	-0.0001	mg/L	0.00009	149.55%
QC value within limits for Zn 206.200 Recovery = Not calculated								
Zr 343.823†	-5.2	-0.0000	mg/L	0.00017	-0.0000	mg/L	0.00017	>999.9%

QC Failed. Continue with analysis.
User canceled analysis.

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Analysis Begun

Start Time: 5/22/2024 3:45:52 PM **Plasma On Time: 5/22/2024 7:48:16 AM**
Logged In Analyst: ICP2 **Technique: ICP Continuous**
Spectrometer: Optima 4300 DV, S/N 069N-na **Autosampler: S10**

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0522A24.sif
Batch ID: Optima 2
Results Data Set: 0522B24
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

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Sequence No.: 2 **Autosampler Location: 1**
Sample ID: SEQ-ICB@ 23J0970 **Date Collected: 5/22/2024 3:45:53 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time:

Mean Data: SEQ-ICB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y axial	4127441.9	98.90	%	0.581				0.59%
Y radial	207734.8	100.6	%	1.26				1.26%
Ag 328.068†	-128.4	-0.0006	mg/L	0.00004	-0.0006	mg/L	0.00004	6.85%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	14.3	0.0037	mg/L	0.00319	0.0037	mg/L	0.00319	85.21%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	-2.5	-0.0011	mg/L	0.00099	-0.0011	mg/L	0.00099	86.88%
QC value within limits for As 188.979 Recovery = Not calculated								
B 208.889†	857.1	0.0603	mg/L	0.00180	0.0603	mg/L	0.00180	2.98%
QC value greater than the upper limit for B 208.889 Recovery = Not calculated								
Ba 233.527†	-13.4	-0.0001	mg/L	0.00005	-0.0001	mg/L	0.00005	47.23%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-144.6	-0.0004	mg/L	0.00001	-0.0004	mg/L	0.00001	2.58%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	-30.1	-0.0043	mg/L	0.00235	-0.0043	mg/L	0.00235	54.83%
QC value within limits for Ca 317.933 Recovery = Not calculated								
Cd 228.802†	6.9	0.0001	mg/L	0.00011	0.0001	mg/L	0.00011	109.62%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	-66.8	-0.0009	mg/L	0.00003	-0.0009	mg/L	0.00003	2.84%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	30.4	0.0003	mg/L	0.00008	0.0003	mg/L	0.00008	23.12%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	-79.0	-0.0005	mg/L	0.00014	-0.0005	mg/L	0.00014	25.44%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 238.204†	-39.8	-0.0158	mg/L	0.00173	-0.0158	mg/L	0.00173	10.99%
QC value within limits for Fe 238.204 Recovery = Not calculated								
K 766.490†	-16.0	-0.0051	mg/L	0.01944	-0.0051	mg/L	0.01944	378.39%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213†	213.0	0.0221	mg/L	0.00271	0.0221	mg/L	0.00271	12.28%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610†	-52.5	-0.0018	mg/L	0.00009	-0.0018	mg/L	0.00009	4.96%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	1.1	0.0001	mg/L	0.00018	0.0001	mg/L	0.00018	307.47%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592†	-3.0	-0.0004	mg/L	0.00375	-0.0004	mg/L	0.00375	>999.9%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604†	-99.6	-0.0035	mg/L	0.00057	-0.0035	mg/L	0.00057	16.38%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-7.0	-0.0008	mg/L	0.00009	-0.0008	mg/L	0.00009	10.94%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-4.3	-0.0009	mg/L	0.00007	-0.0009	mg/L	0.00007	6.94%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-0.1	-0.0001	mg/L	0.00123	-0.0001	mg/L	0.00123	>999.9%

```
   QC value within limits for Se 196.026  Recovery = Not calculated
Sn 189.927†               4.5      0.0007 mg/L       0.00020      0.0007 mg/L       0.00020  27.30%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Ti 337.279†              -9.2     -0.0005 mg/L       0.00032     -0.0005 mg/L       0.00032  67.55%
   QC value within limits for Ti 337.279  Recovery = Not calculated
Tl 351.924†             -29.0     -0.0030 mg/L       0.00200     -0.0030 mg/L       0.00200  67.57%
   QC value within limits for Tl 351.924  Recovery = Not calculated
V 290.880†              -221.4     -0.0014 mg/L       0.00047     -0.0014 mg/L       0.00047  34.30%
   QC value within limits for V 290.880  Recovery = Not calculated
Zn 206.200†             -54.7     -0.0012 mg/L       0.00012     -0.0012 mg/L       0.00012  10.09%
   QC value within limits for Zn 206.200  Recovery = Not calculated
Zr 343.823†              23.5      0.0001 mg/L       0.00013      0.0001 mg/L       0.00013 180.02%
QC Failed.  Continue with analysis.
User canceled analysis.
```

NO B- JLC 05/23/24

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Analysis Begun

Start Time: 5/22/2024 4:02:50 PM **Plasma On Time: 5/22/2024 7:48:16 AM**
Logged In Analyst: ICP2 **Technique: ICP Continuous**
Spectrometer: Optima 4300 DV, S/N 069N-na **Autosampler: S10**

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0522A24.sif
Batch ID: Optima 2
Results Data Set: 0522B24
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

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Method Loaded
Method Name: ICP2 111223-IEC **Method Last Saved: 5/22/2024 2:53:15 PM**
IEC File: 111223-IEC.iec **MSF File:**
Method Description: Soils and Waters

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Al 396.153	Lin Thru 0	Peak Area	Radial	Y radial	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Y axial	Yes
B 208.889	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ba 233.527	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Be 313.107	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	Y radial	No
Cd 228.802	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cu 327.393	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Fe 238.204	Lin Thru 0	Peak Area	Radial	Y radial	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	Y radial	No
Mg 285.213	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mn 257.610	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	Y axial	No
Na 589.592	Lin Thru 0	Peak Area	Radial	Y radial	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ti 337.279	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Tl 351.924	Lin Thru 0	Peak Area	Axial	Y axial	Yes
V 290.880	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Zn 206.200	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Y axial	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Y radial	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Zr 343.823	Lin Thru 0	Peak Area	Axial	Y axial	Yes

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Sequence No.: 7 **Autosampler Location: 13**
Sample ID: SEQ-LCV@RR **Date Collected: 5/22/2024 4:02:51 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Wash Time:

Mean Data: SEQ-LCV@RR

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y axial	4067288.7	97.46	%	1.591				1.63%
Y radial	206822.1	100.2	%	1.73				1.72%
Ag 328.068†	1048.6	0.0045	mg/L	0.00037	0.0045	mg/L	0.00037	8.14%
Al 396.153†	34.9	0.0086	mg/L	0.00584	0.0086	mg/L	0.00584	67.91%
As 188.979†	20.8	0.0090	mg/L	0.00204	0.0090	mg/L	0.00204	22.54%
B 208.889†	224.9	0.0153	mg/L	0.00056	0.0153	mg/L	0.00056	3.67%
Ba 233.527†	1345.8	0.0111	mg/L	0.00011	0.0111	mg/L	0.00011	0.98%
Be 313.107†	3915.9	0.0096	mg/L	0.00040	0.0096	mg/L	0.00040	4.13%
Ca 317.933†	36.4	0.0052	mg/L	0.00292	0.0052	mg/L	0.00292	56.23%
Cd 228.802†	908.5	0.0107	mg/L	0.00014	0.0107	mg/L	0.00014	1.34%
Co 228.616†	684.7	0.0093	mg/L	0.00029	0.0093	mg/L	0.00029	3.15%
Cr 267.716†	1101.1	0.0119	mg/L	0.00023	0.0119	mg/L	0.00023	1.96%
Cu 327.393†	1275.1	0.0089	mg/L	0.00024	0.0089	mg/L	0.00024	2.72%
QC value within limits for Cu 327.393 Recovery = 88.90%								
Fe 238.204†	-19.9	-0.0078	mg/L	0.00224	-0.0078	mg/L	0.00224	28.52%
K 766.490†	7.3	0.0023	mg/L	0.02580	0.0023	mg/L	0.02580	>999.9%
Mg 285.213†	261.0	0.0271	mg/L	0.00276	0.0271	mg/L	0.00276	10.20%
Mn 257.610†	224.7	0.0079	mg/L	0.00023	0.0079	mg/L	0.00023	2.93%
Mo 202.031†	199.5	0.0106	mg/L	0.00017	0.0106	mg/L	0.00017	1.63%
Na 589.592†	48.8	0.0058	mg/L	0.00354	0.0058	mg/L	0.00354	60.63%
Ni 231.604†	198.9	0.0070	mg/L	0.00046	0.0070	mg/L	0.00046	6.55%
QC value less than the lower limit for Ni 231.604 Recovery = 69.99%								
Pb 220.353†	96.9	0.0112	mg/L	0.00017	0.0112	mg/L	0.00017	1.50%
Sb 206.836†	48.7	0.0105	mg/L	0.00134	0.0105	mg/L	0.00134	12.71%
Se 196.026†	12.4	0.0095	mg/L	0.00220	0.0095	mg/L	0.00220	23.25%
Sn 189.927†	64.7	0.0109	mg/L	0.00052	0.0109	mg/L	0.00052	4.75%
Ti 337.279†	180.9	0.0093	mg/L	0.00016	0.0093	mg/L	0.00016	1.73%
Tl 351.924†	-52.3	-0.0054	mg/L	0.00367	-0.0054	mg/L	0.00367	67.55%
V 290.880†	1571.7	0.0098	mg/L	0.00059	0.0098	mg/L	0.00059	6.03%
Zn 206.200†	406.8	0.0090	mg/L	0.00031	0.0090	mg/L	0.00031	3.40%
Zr 343.823†	2370.9	0.0070	mg/L	0.00035	0.0070	mg/L	0.00035	5.03%

QC Failed. Continue with analysis.
User canceled analysis.

105% REC

CU, SB PASS
RERUN NI @SOIL RL- JLC
05/23/24

Analysis Begun

Start Time: 5/22/2024 4:08:35 PM **Plasma On Time: 5/22/2024 7:48:16 AM**
Logged In Analyst: ICP2 **Technique: ICP Continuous**
Spectrometer: Optima 4300 DV, S/N 069N-na **Autosampler: S10**

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0522A24.sif
Batch ID: Optima 2
Results Data Set: 0522B24
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

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Method Loaded
Method Name: ICP2 111223-IEC **Method Last Saved: 5/22/2024 4:06:23 PM**
IEC File: 111223-IEC.iec **MSF File:**
Method Description: Soils and Waters

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Al 396.153	Lin Thru 0	Peak Area	Radial	Y radial	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Y axial	Yes
B 208.889	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ba 233.527	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Be 313.107	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	Y radial	No
Cd 228.802	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cu 327.393	Lin Thru 0	Peak Area	Axial	Y axial	Yes

Fe 238.204	Lin Thru 0	Peak Area	Radial	Y radial	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	Y radial	No
Mg 285.213	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mn 257.610	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	Y axial	No
Na 589.592	Lin Thru 0	Peak Area	Radial	Y radial	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ti 337.279	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Tl 351.924	Lin Thru 0	Peak Area	Axial	Y axial	Yes
V 290.880	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Zn 206.200	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Y axial	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Y radial	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Zr 343.823	Lin Thru 0	Peak Area	Axial	Y axial	Yes

Sequence No.: 7 **Autosampler Location: 13**
Sample ID: SEQ-LCV@RR **Date Collected: 5/22/2024 4:08:36 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time:

Mean Data: SEQ-LCV@RR

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y axial	4021073.8	96.35	%	0.886				0.92%
Y radial	202049.1	97.88	%	1.159				1.18%
Ag 328.068†	2223.3	0.0096	mg/L	0.00054	0.0096	mg/L	0.00054	5.66%
Al 396.153†	95.6	0.0239	mg/L	0.00862	0.0239	mg/L	0.00862	36.08%
As 188.979†	42.0	0.0183	mg/L	0.00164	0.0183	mg/L	0.00164	9.00%
B 208.889†	317.7	0.0213	mg/L	0.00027	0.0213	mg/L	0.00027	1.29%
Ba 233.527†	2722.9	0.0224	mg/L	0.00014	0.0224	mg/L	0.00014	0.61%
Be 313.107†	8012.5	0.0197	mg/L	0.00063	0.0197	mg/L	0.00063	3.18%
Ca 317.933†	185.9	0.0265	mg/L	0.00192	0.0265	mg/L	0.00192	7.23%
Cd 228.802†	1827.8	0.0215	mg/L	0.00017	0.0215	mg/L	0.00017	0.77%
Co 228.616†	1498.8	0.0204	mg/L	0.00005	0.0204	mg/L	0.00005	0.24%
Cr 267.716†	2069.5	0.0223	mg/L	0.00032	0.0223	mg/L	0.00032	1.44%
Cu 327.393†	2723.0	0.0190	mg/L	0.00021	0.0190	mg/L	0.00021	1.08%
Fe 238.204†	11.1	0.0045	mg/L	0.00266	0.0045	mg/L	0.00266	59.24%
K 766.490†	45.2	0.0145	mg/L	0.01470	0.0145	mg/L	0.01470	101.28%
Mg 285.213†	322.4	0.0334	mg/L	0.00180	0.0334	mg/L	0.00180	5.40%
Mn 257.610†	509.6	0.0179	mg/L	0.00032	0.0179	mg/L	0.00032	1.82%
Mo 202.031†	398.9	0.0212	mg/L	0.00009	0.0212	mg/L	0.00009	0.44%
Na 589.592†	129.4	0.0155	mg/L	0.00260	0.0155	mg/L	0.00260	16.78%
Ni 231.604†	520.6	0.0183	mg/L	0.00025	0.0183	mg/L	0.00025	1.35%
QC value within limits for Ni 231.604 Recovery = 91.48%								
Pb 220.353†	179.8	0.0207	mg/L	0.00025	0.0207	mg/L	0.00025	1.20%
Sb 206.836†	95.0	0.0205	mg/L	0.00085	0.0205	mg/L	0.00085	4.15%
Se 196.026†	27.7	0.0211	mg/L	0.00204	0.0211	mg/L	0.00204	9.67%
Sn 189.927†	130.1	0.0218	mg/L	0.00025	0.0218	mg/L	0.00025	1.14%
Ti 337.279†	378.1	0.0195	mg/L	0.00028	0.0195	mg/L	0.00028	1.43%
Tl 351.924†	97.1	0.0098	mg/L	0.00860	0.0098	mg/L	0.00860	88.21%
V 290.880†	3441.5	0.0215	mg/L	0.00064	0.0215	mg/L	0.00064	2.97%
Zn 206.200†	887.5	0.0197	mg/L	0.00008	0.0197	mg/L	0.00008	0.41%
Zr 343.823†	5989.7	0.0177	mg/L	0.00036	0.0177	mg/L	0.00036	2.04%

All analyte(s) passed QC.
User canceled analysis.

NI PASS @0.02PPM- NO NI WATER/TCLP; SOIL OK- JLC 05/23/24

Analysis Begun

Start Time: 5/22/2024 4:15:02 PM **Plasma On Time: 5/22/2024 7:48:16 AM**
Logged In Analyst: ICP2 **Technique: ICP Continuous**
Spectrometer: Optima 4300 DV, S/N 069N-na **Autosampler: S10**

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0522A24.sif
Batch ID: Optima 2
Results Data Set: 0522B24
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

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Method Loaded
Method Name: ICP2 111223-IEC **Method Last Saved: 5/22/2024 4:12:08 PM**
IEC File: 111223-IEC.iec **MSF File:**
Method Description: Soils and Waters

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Al 396.153	Lin Thru 0	Peak Area	Radial	Y radial	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Y axial	Yes
B 208.889	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ba 233.527	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Be 313.107	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	Y radial	No
Cd 228.802	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cu 327.393	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Fe 238.204	Lin Thru 0	Peak Area	Radial	Y radial	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	Y radial	No
Mg 285.213	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mn 257.610	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	Y axial	No
Na 589.592	Lin Thru 0	Peak Area	Radial	Y radial	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ti 337.279	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Tl 351.924	Lin Thru 0	Peak Area	Axial	Y axial	Yes
V 290.880	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Zn 206.200	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Y axial	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Y radial	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Zr 343.823	Lin Thru 0	Peak Area	Axial	Y axial	Yes

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Sequence No.: 7 **Autosampler Location: 13**
Sample ID: SEQ-LCV@RR **Date Collected: 5/22/2024 4:15:03 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time:

Mean Data: SEQ-LCV@RR

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y axial	4034682.7	96.68	%	0.696				0.72%
Y radial	199702.2	96.74	%	1.433				1.48%
Ag 328.068†	55026.7	0.2360	mg/L	0.00136	0.2360	mg/L	0.00136	0.58%
Al 396.153†	2060.3	0.5120	mg/L	0.01746	0.5120	mg/L	0.01746	3.41%
As 188.979†	1100.8	0.4791	mg/L	0.00265	0.4791	mg/L	0.00265	0.55%
B 208.889†	7043.0	0.4705	mg/L	0.00355	0.4705	mg/L	0.00355	0.75%
Ba 233.527†	62473.6	0.5135	mg/L	0.00405	0.5135	mg/L	0.00405	0.79%
Be 313.107†	213496.4	0.5254	mg/L	0.01164	0.5254	mg/L	0.01164	2.22%
Ca 317.933†	3525.3	0.5028	mg/L	0.01884	0.5028	mg/L	0.01884	3.75%
Cd 228.802†	42506.1	0.4990	mg/L	0.00321	0.4990	mg/L	0.00321	0.64%
Co 228.616†	37081.3	0.5056	mg/L	0.00371	0.5056	mg/L	0.00371	0.73%
Cr 267.716†	47225.0	0.5091	mg/L	0.00301	0.5091	mg/L	0.00301	0.59%
Cu 327.393†	69816.2	0.4871	mg/L	0.00280	0.4871	mg/L	0.00280	0.57%
Fe 238.204†	1301.7	0.5183	mg/L	0.01509	0.5183	mg/L	0.01509	2.91%

QC value within limits for Fe 238.204 Recovery = 103.67%

K 766.490†	1606.3	0.5159 mg/L	0.02438	0.5159 mg/L	0.02438	4.73%
Mg 285.213†	5054.9	0.5227 mg/L	0.01900	0.5227 mg/L	0.01900	3.64%
Mn 257.610†	14561.0	0.5114 mg/L	0.01623	0.5114 mg/L	0.01623	3.17%
Mo 202.031†	9431.1	0.5005 mg/L	0.00513	0.5005 mg/L	0.00513	1.02%
Na 589.592†	4316.9	0.5169 mg/L	0.01132	0.5169 mg/L	0.01132	2.19%
Ni 231.604†	14370.8	0.5051 mg/L	0.00280	0.5051 mg/L	0.00280	0.55%
Pb 220.353†	4246.9	0.4896 mg/L	0.00256	0.4896 mg/L	0.00256	0.52%
Sb 206.836†	2206.4	0.4766 mg/L	0.00358	0.4766 mg/L	0.00358	0.75%
Se 196.026†	630.4	0.4809 mg/L	0.00430	0.4809 mg/L	0.00430	0.89%
Sn 189.927†	2951.3	0.4949 mg/L	0.00320	0.4949 mg/L	0.00320	0.65%
Ti 337.279†	9947.6	0.5133 mg/L	0.01559	0.5133 mg/L	0.01559	3.04%
Tl 351.924†	2297.8	0.2308 mg/L	0.00606	0.2308 mg/L	0.00606	2.63%
V 290.880†	79387.3	0.4966 mg/L	0.00390	0.4966 mg/L	0.00390	0.78%
Zn 206.200†	22425.9	0.4966 mg/L	0.00451	0.4966 mg/L	0.00451	0.91%
Zr 343.823†	164953.3	0.4882 mg/L	0.00054	0.4882 mg/L	0.00054	0.11%

All analyte(s) passed QC.
User canceled analysis.

FE PASS @0.50PPM; OK
FOR SOIL- JLC 05/23/24

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Analysis Begun

Start Time: 5/22/2024 4:18:52 PM **Plasma On Time: 5/22/2024 7:48:16 AM**
Logged In Analyst: ICP2 **Technique: ICP Continuous**
Spectrometer: Optima 4300 DV, S/N 069N-na **Autosampler: S10**

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0522A24.sif
Batch ID: Optima 2
Results Data Set: 0522B24
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

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Sequence No.: 8 **Autosampler Location: 37**
Sample ID: SEQ-HCV1@100 **Date Collected: 5/22/2024 4:18:54 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time:

Mean Data: SEQ-HCV1@100

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y axial	3793735.4	90.90	%	0.311				0.34%
Y radial	200126.5	96.95	%	0.897				0.93%
Ag 328.068†	-53255.4	0.1768	mg/L	0.00466	0.1768	mg/L	0.00466	2.64%
Al 396.153†	392147.4	102.6	mg/L	0.44	102.6	mg/L	0.44	0.43%
QC value within limits for Al 396.153 Recovery = 102.55%								
As 188.979†	208150.5	90.31	mg/L	0.290	90.31	mg/L	0.290	0.32%
QC value within limits for As 188.979 Recovery = 90.31%								
B 208.889†	-86.2	-0.0046	mg/L	0.00188	-0.0046	mg/L	0.00188	40.60%
Ba 233.527†	9883025.0	81.24	mg/L	0.684	81.24	mg/L	0.684	0.84%
QC value less than the lower limit for Ba 233.527 Recovery = 81.24%								
Be 313.107†	34215918.4	84.11	mg/L	0.437	84.11	mg/L	0.437	0.52%
QC value less than the lower limit for Be 313.107 Recovery = 84.11%								
Ca 317.933†	837.5	0.1195	mg/L	0.00312	0.1195	mg/L	0.00312	2.61%
Cd 228.802†	5538391.6	64.53	mg/L	0.201	64.53	mg/L	0.201	0.31%
QC value less than the lower limit for Cd 228.802 Recovery = 64.53%								
Co 228.616†	6911193.8	94.16	mg/L	0.182	94.16	mg/L	0.182	0.19%
QC value within limits for Co 228.616 Recovery = 94.16%								
Cr 267.716†	8691923.7	93.68	mg/L	0.167	93.68	mg/L	0.167	0.18%
QC value within limits for Cr 267.716 Recovery = 93.68%								
Cu 327.393†	15000940.0	104.3	mg/L	0.52	104.3	mg/L	0.52	0.50%
QC value within limits for Cu 327.393 Recovery = 104.28%								
Fe 238.204†	247466.3	98.48	mg/L	0.540	98.48	mg/L	0.540	0.55%
QC value within limits for Fe 238.204 Recovery = 98.48%								
K 766.490†	-31.9	-0.0102	mg/L	0.02620	-0.0102	mg/L	0.02620	255.84%
Mg 285.213†	-1803.5	-0.0420	mg/L	0.00339	-0.0420	mg/L	0.00339	8.08%
Mn 257.610†	2671131.6	93.81	mg/L	0.443	93.81	mg/L	0.443	0.47%
QC value within limits for Mn 257.610 Recovery = 93.81%								
Mo 202.031†	-538.5	-0.0286	mg/L	0.00085	-0.0286	mg/L	0.00085	2.96%

Na 589.592†	187.7	0.0225 mg/L	0.00496	0.0225 mg/L	0.00496	22.06%
Ni 231.604†	2649729.2	93.06 mg/L	0.187	93.06 mg/L	0.187	0.20%
QC value within limits for Ni 231.604 Recovery = 93.06%						
Pb 220.353†	833818.9	95.95 mg/L	0.234	95.95 mg/L	0.234	0.24%
QC value within limits for Pb 220.353 Recovery = 95.95%						
Sb 206.836†	5512.4	-0.5222 mg/L	0.00394	-0.5222 mg/L	0.00394	0.76%
Se 196.026†	130419.6	99.26 mg/L	0.283	99.26 mg/L	0.283	0.29%
QC value within limits for Se 196.026 Recovery = 99.26%						
Sn 189.927†	-214.4	-0.0360 mg/L	0.00175	-0.0360 mg/L	0.00175	4.85%
Ti 337.279†	-20.7	-0.0011 mg/L	0.00134	-0.0011 mg/L	0.00134	125.65%
Tl 351.924†	1018022.9	103.8 mg/L	0.21	103.8 mg/L	0.21	0.21%
QC value within limits for Tl 351.924 Recovery = 103.76%						
V 290.880†	15556839.3	97.32 mg/L	0.800	97.32 mg/L	0.800	0.82%
QC value within limits for V 290.880 Recovery = 97.32%						
Zn 206.200†	4010489.2	89.11 mg/L	0.218	89.11 mg/L	0.218	0.24%
QC value less than the lower limit for Zn 206.200 Recovery = 89.11%						
Zr 343.823†	-1440.7	-0.0066 mg/L	0.00012	-0.0066 mg/L	0.00012	1.85%

QC Failed. Continue with analysis.

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Sequence No.: 9 **Autosampler Location: 36**
Sample ID: SEQ-HCV2@500/100 **Date Collected: 5/22/2024 4:26:09 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 230 **Auto Dilution Factor: 1**

Mean Data: SEQ-HCV2@500/100

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y axial	3397669.3	81.41	%	0.444				0.55%
Y radial	182944.4	88.62	%	1.121				1.26%
Ag 328.068†	-9704.5	-0.0324	mg/L	0.00062	-0.0324	mg/L	0.00062	1.91%
Al 396.153†	2087162.8	545.5	mg/L	1.42	545.5	mg/L	1.42	0.26%
QC value within limits for Al 396.153 Recovery = 109.11%								
As 188.979†	-315.8	-0.0305	mg/L	0.00387	-0.0305	mg/L	0.00387	12.67%
B 208.889†	1327683.4	93.44	mg/L	0.097	93.44	mg/L	0.097	0.10%
QC value within limits for B 208.889 Recovery = 93.44%								
Ba 233.527†	4191.5	-0.0248	mg/L	0.00050	-0.0248	mg/L	0.00050	2.03%
Be 313.107†	2213.4	0.0053	mg/L	0.00021	0.0053	mg/L	0.00021	4.01%
Ca 317.933†	3457195.2	493.1	mg/L	2.06	493.1	mg/L	2.06	0.42%
QC value within limits for Ca 317.933 Recovery = 98.62%								
Cd 228.802†	-279.9	0.0055	mg/L	0.00027	0.0055	mg/L	0.00027	5.01%
Co 228.616†	241.9	0.0032	mg/L	0.00035	0.0032	mg/L	0.00035	10.89%
Cr 267.716†	147.8	0.0016	mg/L	0.00041	0.0016	mg/L	0.00041	25.51%
Cu 327.393†	34630.9	0.2408	mg/L	0.01372	0.2408	mg/L	0.01372	5.70%
Fe 238.204†	1129023.0	447.3	mg/L	2.01	447.3	mg/L	2.01	0.45%
QC value less than the lower limit for Fe 238.204 Recovery = 89.45%								
K 766.490†	687790.9	220.9	mg/L	0.33	220.9	mg/L	0.33	0.15%
QC value greater than the upper limit for K 766.490 Recovery = 110.45%								
Mg 285.213†	1896663.0	197.2	mg/L	0.61	197.2	mg/L	0.61	0.31%
QC value within limits for Mg 285.213 Recovery = 98.59%								
Mn 257.610†	-862.0	0.0046	mg/L	0.00042	0.0046	mg/L	0.00042	9.08%
Mo 202.031†	-424.6	-0.0225	mg/L	0.00029	-0.0225	mg/L	0.00029	1.27%
Na 589.592†	4518703.9	541.1	mg/L	10.96	541.1	mg/L	10.96	2.03%
QC value within limits for Na 589.592 Recovery = 108.22%								
Ni 231.604†	348.3	0.0125	mg/L	0.00035	0.0125	mg/L	0.00035	2.83%
Pb 220.353†	-254.3	0.0251	mg/L	0.00069	0.0251	mg/L	0.00069	2.74%
Sb 206.836†	-1.9	0.0200	mg/L	0.00209	0.0200	mg/L	0.00209	10.41%
Se 196.026†	-13.4	-0.0853	mg/L	0.00312	-0.0853	mg/L	0.00312	3.66%
Sn 189.927†	-594.9	-0.0999	mg/L	0.00083	-0.0999	mg/L	0.00083	0.83%
Ti 337.279†	27.0	0.0014	mg/L	0.00008	0.0014	mg/L	0.00008	6.04%
Tl 351.924†	-3530.5	-0.0705	mg/L	0.00283	-0.0705	mg/L	0.00283	4.02%
V 290.880†	6054.4	0.0054	mg/L	0.00048	0.0054	mg/L	0.00048	8.81%
Zn 206.200†	2721.7	-0.0172	mg/L	0.00113	-0.0172	mg/L	0.00113	6.55%
Zr 343.823†	4827.7	0.0036	mg/L	0.00006	0.0036	mg/L	0.00006	1.59%

QC Failed. Continue with analysis.
User canceled analysis.

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Analysis Begun

Start Time: 5/22/2024 4:30:26 PM **Plasma On Time: 5/22/2024 7:48:16 AM**
Logged In Analyst: ICP2 **Technique: ICP Continuous**
Spectrometer: Optima 4300 DV, S/N 069N-na **Autosampler: S10**

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0522A24.sif
Batch ID: Optima 2
Results Data Set: 0522B24
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

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Sequence No.: 1 **Autosampler Location: 8**
Sample ID: SEQ-ICV@ 23K0257 **Date Collected: 5/22/2024 4:30:27 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time:
User canceled analysis.

ANALYSIS SEQUENCE

S104904

Instrument: ICP2

Calibration ID: 2400563

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
S104904-IFA1	QC		1		24C0959	24D0241	
S104904-IFB1	QC		2		24D0240	24D0241	
S104904-CCV1	QC		3		24D0029	24D0241	
S104904-CCB1	QC		4		24D0837	24D0241	
B374725-BLK1	QC		5			24D0241	
B374725-BS1	QC		6			24D0241	
B374725-BSD1	QC		7			24D0241	
B374725-MS1	QC		8			24D0241	
S104904-CCV2	QC		9		24D0029	24D0241	
S104904-CCB2	QC		10		24D0837	24D0241	
B374725-MSD1	QC		11			24D0241	
B374725-PS1	QC		12			24D0241	
B374725-SRL1	QC		13			24D0241	
24E1437-06	Aluminum 6010 Total	A	14			24D0241	CAT B
24E1437-06	Arsenic 6010 Total	A	15			24D0241	CAT B
24E1437-06	Barium 6010 Total	A	16			24D0241	CAT B
24E1437-06	Beryllium 6010 Total	A	17			24D0241	CAT B
24E1437-06	Cadmium 6010 Total	A	18			24D0241	CAT B
24E1437-06	Calcium 6010 Total	A	19			24D0241	CAT B
24E1437-06	Chromium 6010 Total	A	20			24D0241	CAT B
24E1437-06	Cobalt 6010 Total	A	21			24D0241	CAT B
24E1437-06	Copper 6010 Total	A	22			24D0241	CAT B
24E1437-06	Lead 6010 Total	A	23			24D0241	CAT B
24E1437-06	Magnesium 6010 Total	A	24			24D0241	CAT B
24E1437-06	Manganese 6010 Total	A	25			24D0241	CAT B
24E1437-06	Nickel 6010 Total	A	26			24D0241	CAT B
24E1437-06	Potassium 6010 Total	A	27			24D0241	CAT B
24E1437-06	Selenium 6010 Total	A	28			24D0241	CAT B
24E1437-06	Silver 6010 Total	A	29			24D0241	CAT B
24E1437-06	Sodium 6010 Total	A	30			24D0241	CAT B
24E1437-06	Vanadium 6010 Total	A	31			24D0241	CAT B
24E1437-06	Zinc 6010 Total	A	32			24D0241	CAT B
24E1437-01	Aluminum 6010 Total	A	33			24D0241	CAT B

Samples Loaded By Date

Data Processed By Date

ANALYSIS SEQUENCE

S104904

Instrument: ICP2

Calibration ID: 2400563

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
24E1437-01	Arsenic 6010 Total	A	34			24D0241	CAT B
24E1437-01	Barium 6010 Total	A	35			24D0241	CAT B
24E1437-01	Beryllium 6010 Total	A	36			24D0241	CAT B
24E1437-01	Cadmium 6010 Total	A	37			24D0241	CAT B
24E1437-01	Calcium 6010 Total	A	38			24D0241	CAT B
24E1437-01	Chromium 6010 Total	A	39			24D0241	CAT B
24E1437-01	Cobalt 6010 Total	A	40			24D0241	CAT B
24E1437-01	Copper 6010 Total	A	41			24D0241	CAT B
24E1437-01	Lead 6010 Total	A	42			24D0241	CAT B
24E1437-01	Magnesium 6010 Total	A	43			24D0241	CAT B
24E1437-01	Manganese 6010 Total	A	44			24D0241	CAT B
24E1437-01	Nickel 6010 Total	A	45			24D0241	CAT B
24E1437-01	Selenium 6010 Total	A	46			24D0241	CAT B
24E1437-01	Silver 6010 Total	A	47			24D0241	CAT B
24E1437-01	Sodium 6010 Total	A	48			24D0241	CAT B
24E1437-01	Vanadium 6010 Total	A	49			24D0241	CAT B
24E1437-01	Zinc 6010 Total	A	50			24D0241	CAT B
24E1437-02	Aluminum 6010 Total	A	51			24D0241	CAT B
24E1437-02	Arsenic 6010 Total	A	52			24D0241	CAT B
24E1437-02	Barium 6010 Total	A	53			24D0241	CAT B
24E1437-02	Beryllium 6010 Total	A	54			24D0241	CAT B
24E1437-02	Cadmium 6010 Total	A	55			24D0241	CAT B
24E1437-02	Calcium 6010 Total	A	56			24D0241	CAT B
24E1437-02	Chromium 6010 Total	A	57			24D0241	CAT B
24E1437-02	Cobalt 6010 Total	A	58			24D0241	CAT B
24E1437-02	Copper 6010 Total	A	59			24D0241	CAT B
24E1437-02	Lead 6010 Total	A	60			24D0241	CAT B
24E1437-02	Magnesium 6010 Total	A	61			24D0241	CAT B
24E1437-02	Manganese 6010 Total	A	62			24D0241	CAT B
24E1437-02	Nickel 6010 Total	A	63			24D0241	CAT B
24E1437-02	Selenium 6010 Total	A	64			24D0241	CAT B
24E1437-02	Silver 6010 Total	A	65			24D0241	CAT B
24E1437-02	Sodium 6010 Total	A	66			24D0241	CAT B

Samples Loaded By Date

Data Processed By Date

ANALYSIS SEQUENCE

S104904

Instrument: ICP2

Calibration ID: 2400563

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
24E1437-02	Vanadium 6010 Total	A	67			24D0241	CAT B
24E1437-02	Zinc 6010 Total	A	68			24D0241	CAT B
24E1437-03	Aluminum 6010 Total	A	69			24D0241	CAT B
24E1437-03	Arsenic 6010 Total	A	70			24D0241	CAT B
24E1437-03	Barium 6010 Total	A	71			24D0241	CAT B
24E1437-03	Beryllium 6010 Total	A	72			24D0241	CAT B
24E1437-03	Cadmium 6010 Total	A	73			24D0241	CAT B
24E1437-03	Calcium 6010 Total	A	74			24D0241	CAT B
24E1437-03	Chromium 6010 Total	A	75			24D0241	CAT B
24E1437-03	Cobalt 6010 Total	A	76			24D0241	CAT B
24E1437-03	Copper 6010 Total	A	77			24D0241	CAT B
24E1437-03	Lead 6010 Total	A	78			24D0241	CAT B
24E1437-03	Magnesium 6010 Total	A	79			24D0241	CAT B
24E1437-03	Manganese 6010 Total	A	80			24D0241	CAT B
24E1437-03	Nickel 6010 Total	A	81			24D0241	CAT B
24E1437-03	Selenium 6010 Total	A	82			24D0241	CAT B
24E1437-03	Silver 6010 Total	A	83			24D0241	CAT B
24E1437-03	Sodium 6010 Total	A	84			24D0241	CAT B
24E1437-03	Vanadium 6010 Total	A	85			24D0241	CAT B
24E1437-03	Zinc 6010 Total	A	86			24D0241	CAT B
24E1437-04	Arsenic 6010 Total	A	87			24D0241	CAT B
24E1437-04	Beryllium 6010 Total	A	88			24D0241	CAT B
24E1437-04	Cadmium 6010 Total	A	89			24D0241	CAT B
24E1437-04	Chromium 6010 Total	A	90			24D0241	CAT B
24E1437-04	Cobalt 6010 Total	A	91			24D0241	CAT B
24E1437-04	Copper 6010 Total	A	92			24D0241	CAT B
24E1437-04	Lead 6010 Total	A	93			24D0241	CAT B
24E1437-04	Manganese 6010 Total	A	94			24D0241	CAT B
24E1437-04	Nickel 6010 Total	A	95			24D0241	CAT B
24E1437-04	Selenium 6010 Total	A	96			24D0241	CAT B
24E1437-04	Silver 6010 Total	A	97			24D0241	CAT B
24E1437-04	Sodium 6010 Total	A	98			24D0241	CAT B
24E1437-04	Vanadium 6010 Total	A	99			24D0241	CAT B

Samples Loaded By Date

Data Processed By Date

ANALYSIS SEQUENCE

S104904

Instrument: ICP2

Calibration ID: 2400563

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
24E1437-04	Zinc 6010 Total	A	100			24D0241	CAT B
24E1437-05	Aluminum 6010 Total	A	101			24D0241	CAT B
24E1437-05	Arsenic 6010 Total	A	102			24D0241	CAT B
24E1437-05	Barium 6010 Total	A	103			24D0241	CAT B
24E1437-05	Beryllium 6010 Total	A	104			24D0241	CAT B
24E1437-05	Cadmium 6010 Total	A	105			24D0241	CAT B
24E1437-05	Calcium 6010 Total	A	106			24D0241	CAT B
24E1437-05	Chromium 6010 Total	A	107			24D0241	CAT B
24E1437-05	Cobalt 6010 Total	A	108			24D0241	CAT B
24E1437-05	Copper 6010 Total	A	109			24D0241	CAT B
24E1437-05	Lead 6010 Total	A	110			24D0241	CAT B
24E1437-05	Magnesium 6010 Total	A	111			24D0241	CAT B
24E1437-05	Manganese 6010 Total	A	112			24D0241	CAT B
24E1437-05	Nickel 6010 Total	A	113			24D0241	CAT B
24E1437-05	Potassium 6010 Total	A	114			24D0241	CAT B
24E1437-05	Selenium 6010 Total	A	115			24D0241	CAT B
24E1437-05	Silver 6010 Total	A	116			24D0241	CAT B
24E1437-05	Sodium 6010 Total	A	117			24D0241	CAT B
24E1437-05	Vanadium 6010 Total	A	118			24D0241	CAT B
24E1437-05	Zinc 6010 Total	A	119			24D0241	CAT B
24E1437-07	Aluminum 6010 Total	A	120			24D0241	CAT B
24E1437-07	Arsenic 6010 Total	A	121			24D0241	CAT B
24E1437-07	Barium 6010 Total	A	122			24D0241	CAT B
24E1437-07	Beryllium 6010 Total	A	123			24D0241	CAT B
24E1437-07	Cadmium 6010 Total	A	124			24D0241	CAT B
24E1437-07	Calcium 6010 Total	A	125			24D0241	CAT B
24E1437-07	Chromium 6010 Total	A	126			24D0241	CAT B
24E1437-07	Cobalt 6010 Total	A	127			24D0241	CAT B
24E1437-07	Copper 6010 Total	A	128			24D0241	CAT B
24E1437-07	Lead 6010 Total	A	129			24D0241	CAT B
24E1437-07	Magnesium 6010 Total	A	130			24D0241	CAT B
24E1437-07	Manganese 6010 Total	A	131			24D0241	CAT B
24E1437-07	Nickel 6010 Total	A	132			24D0241	CAT B

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ANALYSIS SEQUENCE

S104904

Instrument: ICP2

Calibration ID: 2400563

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
24E1437-07	Selenium 6010 Total	A	133			24D0241	CAT B
24E1437-07	Silver 6010 Total	A	134			24D0241	CAT B
24E1437-07	Sodium 6010 Total	A	135			24D0241	CAT B
24E1437-07	Vanadium 6010 Total	A	136			24D0241	CAT B
24E1437-07	Zinc 6010 Total	A	137			24D0241	CAT B
S104904-CCV3	QC		138		24D0029	24D0241	
S104904-CCB3	QC		139		24D0837	24D0241	
24E1437-08	Aluminum 6010 Total	A	140			24D0241	CAT B
24E1437-08	Arsenic 6010 Total	A	141			24D0241	CAT B
24E1437-08	Barium 6010 Total	A	142			24D0241	CAT B
24E1437-08	Beryllium 6010 Total	A	143			24D0241	CAT B
24E1437-08	Cadmium 6010 Total	A	144			24D0241	CAT B
24E1437-08	Calcium 6010 Total	A	145			24D0241	CAT B
24E1437-08	Chromium 6010 Total	A	146			24D0241	CAT B
24E1437-08	Cobalt 6010 Total	A	147			24D0241	CAT B
24E1437-08	Copper 6010 Total	A	148			24D0241	CAT B
24E1437-08	Lead 6010 Total	A	149			24D0241	CAT B
24E1437-08	Magnesium 6010 Total	A	150			24D0241	CAT B
24E1437-08	Manganese 6010 Total	A	151			24D0241	CAT B
24E1437-08	Nickel 6010 Total	A	152			24D0241	CAT B
24E1437-08	Selenium 6010 Total	A	153			24D0241	CAT B
24E1437-08	Silver 6010 Total	A	154			24D0241	CAT B
24E1437-08	Sodium 6010 Total	A	155			24D0241	CAT B
24E1437-08	Vanadium 6010 Total	A	156			24D0241	CAT B
24E1437-08	Zinc 6010 Total	A	157			24D0241	CAT B
24E1437-09	Aluminum 6010 Total	A	158			24D0241	CAT B
24E1437-09	Arsenic 6010 Total	A	159			24D0241	CAT B
24E1437-09	Barium 6010 Total	A	160			24D0241	CAT B
24E1437-09	Beryllium 6010 Total	A	161			24D0241	CAT B
24E1437-09	Cadmium 6010 Total	A	162			24D0241	CAT B
24E1437-09	Calcium 6010 Total	A	163			24D0241	CAT B
24E1437-09	Chromium 6010 Total	A	164			24D0241	CAT B
24E1437-09	Cobalt 6010 Total	A	165			24D0241	CAT B

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ANALYSIS SEQUENCE

S104904

Instrument: ICP2

Calibration ID: 2400563

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
24E1437-09	Copper 6010 Total	A	166			24D0241	CAT B
24E1437-09	Lead 6010 Total	A	167			24D0241	CAT B
24E1437-09	Magnesium 6010 Total	A	168			24D0241	CAT B
24E1437-09	Manganese 6010 Total	A	169			24D0241	CAT B
24E1437-09	Nickel 6010 Total	A	170			24D0241	CAT B
24E1437-09	Selenium 6010 Total	A	171			24D0241	CAT B
24E1437-09	Silver 6010 Total	A	172			24D0241	CAT B
24E1437-09	Sodium 6010 Total	A	173			24D0241	CAT B
24E1437-09	Vanadium 6010 Total	A	174			24D0241	CAT B
24E1437-09	Zinc 6010 Total	A	175			24D0241	CAT B
24E1437-10	Aluminum 6010 Total	A	176			24D0241	CAT B
24E1437-10	Arsenic 6010 Total	A	177			24D0241	CAT B
24E1437-10	Barium 6010 Total	A	178			24D0241	CAT B
24E1437-10	Beryllium 6010 Total	A	179			24D0241	CAT B
24E1437-10	Cadmium 6010 Total	A	180			24D0241	CAT B
24E1437-10	Calcium 6010 Total	A	181			24D0241	CAT B
24E1437-10	Chromium 6010 Total	A	182			24D0241	CAT B
24E1437-10	Cobalt 6010 Total	A	183			24D0241	CAT B
24E1437-10	Copper 6010 Total	A	184			24D0241	CAT B
24E1437-10	Lead 6010 Total	A	185			24D0241	CAT B
24E1437-10	Magnesium 6010 Total	A	186			24D0241	CAT B
24E1437-10	Manganese 6010 Total	A	187			24D0241	CAT B
24E1437-10	Nickel 6010 Total	A	188			24D0241	CAT B
24E1437-10	Selenium 6010 Total	A	189			24D0241	CAT B
24E1437-10	Silver 6010 Total	A	190			24D0241	CAT B
24E1437-10	Sodium 6010 Total	A	191			24D0241	CAT B
24E1437-10	Vanadium 6010 Total	A	192			24D0241	CAT B
24E1437-10	Zinc 6010 Total	A	193			24D0241	CAT B
24E1437-11	Aluminum 6010 Total	A	194			24D0241	CAT B
24E1437-11	Arsenic 6010 Total	A	195			24D0241	CAT B
24E1437-11	Barium 6010 Total	A	196			24D0241	CAT B
24E1437-11	Beryllium 6010 Total	A	197			24D0241	CAT B
24E1437-11	Cadmium 6010 Total	A	198			24D0241	CAT B

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ANALYSIS SEQUENCE

S104904

Instrument: ICP2

Calibration ID: 2400563

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
24E1437-11	Calcium 6010 Total	A	199			24D0241	CAT B
24E1437-11	Chromium 6010 Total	A	200			24D0241	CAT B
24E1437-11	Cobalt 6010 Total	A	201			24D0241	CAT B
24E1437-11	Copper 6010 Total	A	202			24D0241	CAT B
24E1437-11	Magnesium 6010 Total	A	203			24D0241	CAT B
24E1437-11	Manganese 6010 Total	A	204			24D0241	CAT B
24E1437-11	Nickel 6010 Total	A	205			24D0241	CAT B
24E1437-11	Selenium 6010 Total	A	206			24D0241	CAT B
24E1437-11	Silver 6010 Total	A	207			24D0241	CAT B
24E1437-11	Sodium 6010 Total	A	208			24D0241	CAT B
24E1437-11	Vanadium 6010 Total	A	209			24D0241	CAT B
24E1437-12	Aluminum 6010 Total	A	210			24D0241	CAT B
24E1437-12	Arsenic 6010 Total	A	211			24D0241	CAT B
24E1437-12	Barium 6010 Total	A	212			24D0241	CAT B
24E1437-12	Beryllium 6010 Total	A	213			24D0241	CAT B
24E1437-12	Cadmium 6010 Total	A	214			24D0241	CAT B
24E1437-12	Calcium 6010 Total	A	215			24D0241	CAT B
24E1437-12	Chromium 6010 Total	A	216			24D0241	CAT B
24E1437-12	Cobalt 6010 Total	A	217			24D0241	CAT B
24E1437-12	Copper 6010 Total	A	218			24D0241	CAT B
24E1437-12	Magnesium 6010 Total	A	219			24D0241	CAT B
24E1437-12	Manganese 6010 Total	A	220			24D0241	CAT B
24E1437-12	Nickel 6010 Total	A	221			24D0241	CAT B
24E1437-12	Selenium 6010 Total	A	222			24D0241	CAT B
24E1437-12	Silver 6010 Total	A	223			24D0241	CAT B
24E1437-12	Sodium 6010 Total	A	224			24D0241	CAT B
24E1437-12	Vanadium 6010 Total	A	225			24D0241	CAT B
24E1437-13	Aluminum 6010 Total	A	226			24D0241	CAT B
24E1437-13	Arsenic 6010 Total	A	227			24D0241	CAT B
24E1437-13	Barium 6010 Total	A	228			24D0241	CAT B
24E1437-13	Beryllium 6010 Total	A	229			24D0241	CAT B
24E1437-13	Cadmium 6010 Total	A	230			24D0241	CAT B
24E1437-13	Calcium 6010 Total	A	231			24D0241	CAT B

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ANALYSIS SEQUENCE

S104904

Instrument: ICP2

Calibration ID: 2400563

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
24E1437-13	Chromium 6010 Total	A	232			24D0241	CAT B
24E1437-13	Cobalt 6010 Total	A	233			24D0241	CAT B
24E1437-13	Copper 6010 Total	A	234			24D0241	CAT B
24E1437-13	Lead 6010 Total	A	235			24D0241	CAT B
24E1437-13	Magnesium 6010 Total	A	236			24D0241	CAT B
24E1437-13	Manganese 6010 Total	A	237			24D0241	CAT B
24E1437-13	Nickel 6010 Total	A	238			24D0241	CAT B
24E1437-13	Selenium 6010 Total	A	239			24D0241	CAT B
24E1437-13	Silver 6010 Total	A	240			24D0241	CAT B
24E1437-13	Sodium 6010 Total	A	241			24D0241	CAT B
24E1437-13	Vanadium 6010 Total	A	242			24D0241	CAT B
24E1437-13	Zinc 6010 Total	A	243			24D0241	CAT B
24E1437-14	Aluminum 6010 Total	A	244			24D0241	CAT B
24E1437-14	Arsenic 6010 Total	A	245			24D0241	CAT B
24E1437-14	Barium 6010 Total	A	246			24D0241	CAT B
24E1437-14	Beryllium 6010 Total	A	247			24D0241	CAT B
24E1437-14	Cadmium 6010 Total	A	248			24D0241	CAT B
24E1437-14	Calcium 6010 Total	A	249			24D0241	CAT B
24E1437-14	Chromium 6010 Total	A	250			24D0241	CAT B
24E1437-14	Cobalt 6010 Total	A	251			24D0241	CAT B
24E1437-14	Copper 6010 Total	A	252			24D0241	CAT B
24E1437-14	Lead 6010 Total	A	253			24D0241	CAT B
24E1437-14	Magnesium 6010 Total	A	254			24D0241	CAT B
24E1437-14	Manganese 6010 Total	A	255			24D0241	CAT B
24E1437-14	Nickel 6010 Total	A	256			24D0241	CAT B
24E1437-14	Selenium 6010 Total	A	257			24D0241	CAT B
24E1437-14	Silver 6010 Total	A	258			24D0241	CAT B
24E1437-14	Sodium 6010 Total	A	259			24D0241	CAT B
24E1437-14	Vanadium 6010 Total	A	260			24D0241	CAT B
24E1437-14	Zinc 6010 Total	A	261			24D0241	CAT B
24E1437-15	Aluminum 6010 Total	A	262			24D0241	CAT B
24E1437-15	Arsenic 6010 Total	A	263			24D0241	CAT B
24E1437-15	Barium 6010 Total	A	264			24D0241	CAT B

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ANALYSIS SEQUENCE

S104904

Instrument: ICP2

Calibration ID: 2400563

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
24E1437-15	Beryllium 6010 Total	A	265			24D0241	CAT B
24E1437-15	Cadmium 6010 Total	A	266			24D0241	CAT B
24E1437-15	Chromium 6010 Total	A	267			24D0241	CAT B
24E1437-15	Cobalt 6010 Total	A	268			24D0241	CAT B
24E1437-15	Copper 6010 Total	A	269			24D0241	CAT B
24E1437-15	Lead 6010 Total	A	270			24D0241	CAT B
24E1437-15	Magnesium 6010 Total	A	271			24D0241	CAT B
24E1437-15	Manganese 6010 Total	A	272			24D0241	CAT B
24E1437-15	Nickel 6010 Total	A	273			24D0241	CAT B
24E1437-15	Selenium 6010 Total	A	274			24D0241	CAT B
24E1437-15	Silver 6010 Total	A	275			24D0241	CAT B
24E1437-15	Sodium 6010 Total	A	276			24D0241	CAT B
24E1437-15	Vanadium 6010 Total	A	277			24D0241	CAT B
24E1437-15	Zinc 6010 Total	A	278			24D0241	CAT B
24E1437-16	Aluminum 6010 Total	A	279			24D0241	CAT B
24E1437-16	Arsenic 6010 Total	A	280			24D0241	CAT B
24E1437-16	Barium 6010 Total	A	281			24D0241	CAT B
24E1437-16	Beryllium 6010 Total	A	282			24D0241	CAT B
24E1437-16	Cadmium 6010 Total	A	283			24D0241	CAT B
24E1437-16	Calcium 6010 Total	A	284			24D0241	CAT B
24E1437-16	Chromium 6010 Total	A	285			24D0241	CAT B
24E1437-16	Cobalt 6010 Total	A	286			24D0241	CAT B
24E1437-16	Copper 6010 Total	A	287			24D0241	CAT B
24E1437-16	Lead 6010 Total	A	288			24D0241	CAT B
24E1437-16	Magnesium 6010 Total	A	289			24D0241	CAT B
24E1437-16	Manganese 6010 Total	A	290			24D0241	CAT B
24E1437-16	Nickel 6010 Total	A	291			24D0241	CAT B
24E1437-16	Selenium 6010 Total	A	292			24D0241	CAT B
24E1437-16	Silver 6010 Total	A	293			24D0241	CAT B
24E1437-16	Sodium 6010 Total	A	294			24D0241	CAT B
24E1437-16	Vanadium 6010 Total	A	295			24D0241	CAT B
24E1437-16	Zinc 6010 Total	A	296			24D0241	CAT B
24E1437-17	Aluminum 6010 Total	A	297			24D0241	CAT B

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ANALYSIS SEQUENCE

S104904

Instrument: ICP2

Calibration ID: 2400563

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
24E1437-17	Arsenic 6010 Total	A	298			24D0241	CAT B
24E1437-17	Barium 6010 Total	A	299			24D0241	CAT B
24E1437-17	Beryllium 6010 Total	A	300			24D0241	CAT B
24E1437-17	Cadmium 6010 Total	A	301			24D0241	CAT B
24E1437-17	Calcium 6010 Total	A	302			24D0241	CAT B
24E1437-17	Chromium 6010 Total	A	303			24D0241	CAT B
24E1437-17	Cobalt 6010 Total	A	304			24D0241	CAT B
24E1437-17	Copper 6010 Total	A	305			24D0241	CAT B
24E1437-17	Lead 6010 Total	A	306			24D0241	CAT B
24E1437-17	Magnesium 6010 Total	A	307			24D0241	CAT B
24E1437-17	Manganese 6010 Total	A	308			24D0241	CAT B
24E1437-17	Nickel 6010 Total	A	309			24D0241	CAT B
24E1437-17	Selenium 6010 Total	A	310			24D0241	CAT B
24E1437-17	Silver 6010 Total	A	311			24D0241	CAT B
24E1437-17	Sodium 6010 Total	A	312			24D0241	CAT B
24E1437-17	Vanadium 6010 Total	A	313			24D0241	CAT B
24E1437-17	Zinc 6010 Total	A	314			24D0241	CAT B
S104904-CCV4	QC		315		24D0029	24D0241	
S104904-CCB4	QC		316		24D0837	24D0241	
24E1437-18	Aluminum 6010 Total	A	317			24D0241	CAT B
24E1437-18	Arsenic 6010 Total	A	318			24D0241	CAT B
24E1437-18	Barium 6010 Total	A	319			24D0241	CAT B
24E1437-18	Beryllium 6010 Total	A	320			24D0241	CAT B
24E1437-18	Cadmium 6010 Total	A	321			24D0241	CAT B
24E1437-18	Calcium 6010 Total	A	322			24D0241	CAT B
24E1437-18	Chromium 6010 Total	A	323			24D0241	CAT B
24E1437-18	Cobalt 6010 Total	A	324			24D0241	CAT B
24E1437-18	Copper 6010 Total	A	325			24D0241	CAT B
24E1437-18	Lead 6010 Total	A	326			24D0241	CAT B
24E1437-18	Magnesium 6010 Total	A	327			24D0241	CAT B
24E1437-18	Manganese 6010 Total	A	328			24D0241	CAT B
24E1437-18	Nickel 6010 Total	A	329			24D0241	CAT B
24E1437-18	Selenium 6010 Total	A	330			24D0241	CAT B

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ANALYSIS SEQUENCE

S104904

Instrument: ICP2

Calibration ID: 2400563

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
24E1437-18	Silver 6010 Total	A	331			24D0241	CAT B
24E1437-18	Sodium 6010 Total	A	332			24D0241	CAT B
24E1437-18	Vanadium 6010 Total	A	333			24D0241	CAT B
24E1437-18	Zinc 6010 Total	A	334			24D0241	CAT B
24E1437-19	Aluminum 6010 Total	A	335			24D0241	CAT B
24E1437-19	Arsenic 6010 Total	A	336			24D0241	CAT B
24E1437-19	Barium 6010 Total	A	337			24D0241	CAT B
24E1437-19	Beryllium 6010 Total	A	338			24D0241	CAT B
24E1437-19	Cadmium 6010 Total	A	339			24D0241	CAT B
24E1437-19	Calcium 6010 Total	A	340			24D0241	CAT B
24E1437-19	Chromium 6010 Total	A	341			24D0241	CAT B
24E1437-19	Cobalt 6010 Total	A	342			24D0241	CAT B
24E1437-19	Copper 6010 Total	A	343			24D0241	CAT B
24E1437-19	Lead 6010 Total	A	344			24D0241	CAT B
24E1437-19	Magnesium 6010 Total	A	345			24D0241	CAT B
24E1437-19	Manganese 6010 Total	A	346			24D0241	CAT B
24E1437-19	Nickel 6010 Total	A	347			24D0241	CAT B
24E1437-19	Selenium 6010 Total	A	348			24D0241	CAT B
24E1437-19	Silver 6010 Total	A	349			24D0241	CAT B
24E1437-19	Sodium 6010 Total	A	350			24D0241	CAT B
24E1437-19	Vanadium 6010 Total	A	351			24D0241	CAT B
24E1437-19	Zinc 6010 Total	A	352			24D0241	CAT B
24E1437-01	Iron 6010 Total	A	353			24D0241	CAT B
24E1437-01	Potassium 6010 Total	A	354			24D0241	CAT B
24E1437-02	Iron 6010 Total	A	355			24D0241	CAT B
24E1437-02	Potassium 6010 Total	A	356			24D0241	CAT B
24E1437-03	Iron 6010 Total	A	357			24D0241	CAT B
24E1437-03	Potassium 6010 Total	A	358			24D0241	CAT B
24E1437-04	Aluminum 6010 Total	A	359			24D0241	CAT B
24E1437-04	Barium 6010 Total	A	360			24D0241	CAT B
24E1437-04	Calcium 6010 Total	A	361			24D0241	CAT B
24E1437-04	Iron 6010 Total	A	362			24D0241	CAT B
24E1437-04	Magnesium 6010 Total	A	363			24D0241	CAT B

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ANALYSIS SEQUENCE

S104904

Instrument: ICP2

Calibration ID: 2400563

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
24E1437-04	Potassium 6010 Total	A	364			24D0241	CAT B
24E1437-05	Iron 6010 Total	A	365			24D0241	CAT B
24E1437-06	Iron 6010 Total	A	366			24D0241	CAT B
24E1437-07	Iron 6010 Total	A	367			24D0241	CAT B
24E1437-07	Potassium 6010 Total	A	368			24D0241	CAT B
24E1437-08	Iron 6010 Total	A	369			24D0241	CAT B
24E1437-08	Potassium 6010 Total	A	370			24D0241	CAT B
S104904-CCV5	QC		371		24D0029	24D0241	
S104904-CCB5	QC		372		24D0837	24D0241	
24E1437-09	Iron 6010 Total	A	373			24D0241	CAT B
24E1437-09	Potassium 6010 Total	A	374			24D0241	CAT B
24E1437-10	Iron 6010 Total	A	375			24D0241	CAT B
24E1437-10	Potassium 6010 Total	A	376			24D0241	CAT B
24E1437-11	Iron 6010 Total	A	377			24D0241	CAT B
24E1437-11	Lead 6010 Total	A	378			24D0241	CAT B
24E1437-11	Potassium 6010 Total	A	379			24D0241	CAT B
24E1437-11	Zinc 6010 Total	A	380			24D0241	CAT B
24E1437-12	Lead 6010 Total	A	381			24D0241	CAT B
24E1437-12	Potassium 6010 Total	A	382			24D0241	CAT B
24E1437-12	Zinc 6010 Total	A	383			24D0241	CAT B
24E1437-13	Iron 6010 Total	A	384			24D0241	CAT B
24E1437-13	Potassium 6010 Total	A	385			24D0241	CAT B
24E1437-14	Iron 6010 Total	A	386			24D0241	CAT B
24E1437-14	Potassium 6010 Total	A	387			24D0241	CAT B
24E1437-15	Calcium 6010 Total	A	388			24D0241	CAT B
24E1437-15	Iron 6010 Total	A	389			24D0241	CAT B
24E1437-15	Potassium 6010 Total	A	390			24D0241	CAT B
24E1437-16	Iron 6010 Total	A	391			24D0241	CAT B
24E1437-16	Potassium 6010 Total	A	392			24D0241	CAT B
24E1437-17	Iron 6010 Total	A	393			24D0241	CAT B
24E1437-17	Potassium 6010 Total	A	394			24D0241	CAT B
24E1437-18	Iron 6010 Total	A	395			24D0241	CAT B
24E1437-18	Potassium 6010 Total	A	396			24D0241	CAT B

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ANALYSIS SEQUENCE

S104904

Instrument: ICP2

Calibration ID: 2400563

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
S104904-CCV6	QC		397		24D0029	24D0241	
S104904-CCB6	QC		398		24D0837	24D0241	
24E1437-19	Iron 6010 Total	A	399			24D0241	CAT B
24E1437-19	Potassium 6010 Total	A	400			24D0241	CAT B
S104904-IFA2	QC		401		24C0959	24D0241	
S104904-IFB2	QC		402		24D0240	24D0241	
S104904-CCV7	QC		403		24D0029	24D0241	
S104904-CCB7	QC		404		24D0837	24D0241	

Samples Loaded By Date

Data Processed By Date

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Analysis Begun

Start Time: 5/22/2024 4:31:44 PM **Plasma On Time: 5/22/2024 7:48:16 AM**
Logged In Analyst: ICP2 **Technique: ICP Continuous**
Spectrometer: Optima 4300 DV, S/N 069N-na **Autosampler: S10**

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0522A24.sif
Batch ID: Optima 2
Results Data Set: 0522B24
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

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Sequence No.: 1 **Autosampler Location: 8**
Sample ID: SEQ-ICV@ 23K0257 **Date Collected: 5/22/2024 4:31:44 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time:
User canceled analysis.

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Analysis Begun

Start Time: 5/22/2024 4:33:06 PM **Plasma On Time: 5/22/2024 7:48:16 AM**
Logged In Analyst: ICP2 **Technique: ICP Continuous**
Spectrometer: Optima 4300 DV, S/N 069N-na **Autosampler: S10**

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0522A24.sif
Batch ID: Optima 2
Results Data Set: 0522B24
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

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Sequence No.: 11 **Autosampler Location: 7**
Sample ID: RINSE **Date Collected: 5/22/2024 4:33:06 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time:

Mean Data: RINSE

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y axial	4009060.3	96.06	%	0.550				0.57%
Y radial	198600.8	96.21	%	0.753				0.78%
Ag 328.068†	46.1	0.0002	mg/L	0.00009	0.0002	mg/L	0.00009	47.17%
Al 396.153†	70.1	0.0183	mg/L	0.00553	0.0183	mg/L	0.00553	30.20%
As 188.979†	7.4	0.0030	mg/L	0.00138	0.0030	mg/L	0.00138	46.07%
B 208.889†	8749.9	0.6158	mg/L	0.05344	0.6158	mg/L	0.05344	8.68%
Ba 233.527†	24.1	0.0002	mg/L	0.00010	0.0002	mg/L	0.00010	50.46%
Be 313.107†	1104.5	0.0027	mg/L	0.00002	0.0027	mg/L	0.00002	0.89%
Ca 317.933†	73.2	0.0104	mg/L	0.00406	0.0104	mg/L	0.00406	38.87%
Cd 228.802†	42.9	0.0005	mg/L	0.00016	0.0005	mg/L	0.00016	35.43%
Co 228.616†	197.2	0.0027	mg/L	0.00008	0.0027	mg/L	0.00008	3.16%
Cr 267.716†	47.7	0.0005	mg/L	0.00010	0.0005	mg/L	0.00010	20.45%
Cu 327.393†	14761.4	0.1026	mg/L	0.00388	0.1026	mg/L	0.00388	3.79%
Fe 238.204†	80.9	0.0320	mg/L	0.00198	0.0320	mg/L	0.00198	6.16%
K 766.490†	118.0	0.0379	mg/L	0.00942	0.0379	mg/L	0.00942	24.86%
Mg 285.213†	-85.5	-0.0089	mg/L	0.00234	-0.0089	mg/L	0.00234	26.39%
Mn 257.610†	-0.1	-0.0000	mg/L	0.00012	-0.0000	mg/L	0.00012	>999.9%
Mo 202.031†	4.5	0.0002	mg/L	0.00003	0.0002	mg/L	0.00003	12.99%
Na 589.592†	325.4	0.0390	mg/L	0.00267	0.0390	mg/L	0.00267	6.84%
Ni 231.604†	98.2	0.0035	mg/L	0.00013	0.0035	mg/L	0.00013	3.87%
Pb 220.353†	6.5	0.0006	mg/L	0.00066	0.0006	mg/L	0.00066	118.73%
Sb 206.836†	1.7	0.0004	mg/L	0.00112	0.0004	mg/L	0.00112	310.71%
Se 196.026†	3.3	0.0025	mg/L	0.00301	0.0025	mg/L	0.00301	119.96%
Sn 189.927†	3.7	0.0006	mg/L	0.00045	0.0006	mg/L	0.00045	73.25%

Ti 337.279†	1.4	0.0001 mg/L	0.00021	0.0001 mg/L	0.00021	285.84%
Tl 351.924†	17.6	0.0018 mg/L	0.00948	0.0018 mg/L	0.00948	520.83%
V 290.880†	-117.0	-0.0007 mg/L	0.00069	-0.0007 mg/L	0.00069	94.17%
Zn 206.200†	905.5	0.0199 mg/L	0.00067	0.0199 mg/L	0.00067	3.37%
Zr 343.823†	30.7	0.0001 mg/L	0.00007	0.0001 mg/L	0.00007	82.02%

Sequence No.: 12 **Autosampler Location: 7**
Sample ID: RINSE **Date Collected: 5/22/2024 4:38:36 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 110 **Auto Dilution Factor: 1**

Mean Data: RINSE

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y axial	4036578.2	96.72	%	0.793				0.82%
Y radial	192273.9	93.14	%	1.329				1.43%
Ag 328.068†	157.8	0.0007	mg/L	0.00015	0.0007	mg/L	0.00015	21.65%
Al 396.153†	0.9	0.0002	mg/L	0.00290	0.0002	mg/L	0.00290	>999.9%
As 188.979†	7.5	0.0032	mg/L	0.00048	0.0032	mg/L	0.00048	15.18%
B 208.889†	3301.6	0.2324	mg/L	0.01880	0.2324	mg/L	0.01880	8.09%
Ba 233.527†	8.5	0.0001	mg/L	0.00004	0.0001	mg/L	0.00004	52.60%
Be 313.107†	753.2	0.0019	mg/L	0.00006	0.0019	mg/L	0.00006	3.16%
Ca 317.933†	46.7	0.0067	mg/L	0.00320	0.0067	mg/L	0.00320	48.12%
Cd 228.802†	26.4	0.0002	mg/L	0.00001	0.0002	mg/L	0.00001	3.11%
Co 228.616†	118.7	0.0016	mg/L	0.00010	0.0016	mg/L	0.00010	6.40%
Cr 267.716†	19.0	0.0002	mg/L	0.00018	0.0002	mg/L	0.00018	85.74%
Cu 327.393†	8570.2	0.0596	mg/L	0.00186	0.0596	mg/L	0.00186	3.11%
Fe 238.204†	27.1	0.0107	mg/L	0.00197	0.0107	mg/L	0.00197	18.34%
K 766.490†	81.5	0.0262	mg/L	0.00496	0.0262	mg/L	0.00496	18.97%
Mg 285.213†	-34.6	-0.0036	mg/L	0.00068	-0.0036	mg/L	0.00068	18.97%
Mn 257.610†	-7.9	-0.0003	mg/L	0.00016	-0.0003	mg/L	0.00016	57.81%
Mo 202.031†	0.9	0.0000	mg/L	0.00015	0.0000	mg/L	0.00015	314.97%
Na 589.592†	107.5	0.0129	mg/L	0.00464	0.0129	mg/L	0.00464	36.07%
Ni 231.604†	35.9	0.0013	mg/L	0.00007	0.0013	mg/L	0.00007	5.55%
Pb 220.353†	3.3	0.0003	mg/L	0.00067	0.0003	mg/L	0.00067	248.62%
Sb 206.836†	0.3	0.0001	mg/L	0.00013	0.0001	mg/L	0.00013	192.11%
Se 196.026†	-0.2	-0.0002	mg/L	0.00116	-0.0002	mg/L	0.00116	643.67%
Sn 189.927†	3.7	0.0006	mg/L	0.00028	0.0006	mg/L	0.00028	46.03%
Ti 337.279†	6.7	0.0003	mg/L	0.00004	0.0003	mg/L	0.00004	10.81%
Tl 351.924†	16.8	0.0017	mg/L	0.00284	0.0017	mg/L	0.00284	164.72%
V 290.880†	-111.5	-0.0007	mg/L	0.00041	-0.0007	mg/L	0.00041	58.49%
Zn 206.200†	530.6	0.0117	mg/L	0.00042	0.0117	mg/L	0.00042	3.58%
Zr 343.823†	25.6	0.0001	mg/L	0.00009	0.0001	mg/L	0.00009	117.40%

Sequence No.: 13 **Autosampler Location: 38**
Sample ID: B374930-BLK1 **Date Collected: 5/22/2024 4:44:05 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 110 **Auto Dilution Factor: 1**

Mean Data: B374930-BLK1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y axial	3970487.9	95.14	%	0.985				1.04%
Y radial	195230.6	94.58	%	1.759				1.86%
Ag 328.068†	121.8	0.0005	mg/L	0.00015	0.0005	mg/L	0.00015	27.48%
Al 396.153†	20.7	0.0054	mg/L	0.00608	0.0054	mg/L	0.00608	112.38%
As 188.979†	0.2	0.0000	mg/L	0.00232	0.0000	mg/L	0.00232	>999.9%
B 208.889†	1454.8	0.1024	mg/L	0.00442	0.1024	mg/L	0.00442	4.32%
Ba 233.527†	21.1	0.0002	mg/L	0.00012	0.0002	mg/L	0.00012	70.51%
Be 313.107†	544.9	0.0013	mg/L	0.00008	0.0013	mg/L	0.00008	5.84%
Ca 317.933†	192.8	0.0275	mg/L	0.00427	0.0275	mg/L	0.00427	15.53%
Cd 228.802†	19.5	0.0002	mg/L	0.00012	0.0002	mg/L	0.00012	48.08%

Co 228.616†	163.3	0.0022 mg/L	0.00015	0.0022 mg/L	0.00015	6.83%
Cr 267.716†	38.7	0.0004 mg/L	0.00007	0.0004 mg/L	0.00007	16.80%
Cu 327.393†	8507.2	0.0591 mg/L	0.00146	0.0591 mg/L	0.00146	2.47%
Fe 238.204†	31.1	0.0123 mg/L	0.00203	0.0123 mg/L	0.00203	16.42%
K 766.490†	50.0	0.0161 mg/L	0.00893	0.0161 mg/L	0.00893	55.59%
Mg 285.213†	-19.5	-0.0020 mg/L	0.00083	-0.0020 mg/L	0.00083	41.12%
Mn 257.610†	14.0	0.0005 mg/L	0.00011	0.0005 mg/L	0.00011	22.99%
Mo 202.031†	-1.1	-0.0001 mg/L	0.00003	-0.0001 mg/L	0.00003	41.15%
Na 589.592†	99.8	0.0119 mg/L	0.00423	0.0119 mg/L	0.00423	35.36%
Ni 231.604†	95.3	0.0034 mg/L	0.00048	0.0034 mg/L	0.00048	14.40%
Pb 220.353†	6.7	0.0007 mg/L	0.00077	0.0007 mg/L	0.00077	116.30%
Sb 206.836†	1.3	0.0003 mg/L	0.00083	0.0003 mg/L	0.00083	288.82%
Se 196.026†	0.7	0.0005 mg/L	0.00407	0.0005 mg/L	0.00407	818.20%
Sn 189.927†	4.2	0.0007 mg/L	0.00065	0.0007 mg/L	0.00065	92.47%
Ti 337.279†	3.9	0.0002 mg/L	0.00005	0.0002 mg/L	0.00005	26.75%
Tl 351.924†	0.5	0.0001 mg/L	0.00420	0.0001 mg/L	0.00420	>999.9%
V 290.880†	74.2	0.0005 mg/L	0.00052	0.0005 mg/L	0.00052	112.48%
Zn 206.200†	781.7	0.0172 mg/L	0.00013	0.0172 mg/L	0.00013	0.74%
Zr 343.823†	35.8	0.0001 mg/L	0.00004	0.0001 mg/L	0.00004	36.76%

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Sequence No.: 14
Sample ID: B374930-BS1
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 39
Date Collected: 5/22/2024 4:49:36 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: B374930-BS1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y axial	3988730.8	95.58	%	0.378				0.40%
Y radial	195460.0	94.69	%	1.279				1.35%
Ag 328.068†	124887.7	0.5425	mg/L	0.00080	0.5425	mg/L	0.00080	0.15%
Al 396.153†	2071.2	0.5208	mg/L	0.00345	0.5208	mg/L	0.00345	0.66%
As 188.979†	1093.8	0.4768	mg/L	0.00433	0.4768	mg/L	0.00433	0.91%
B 208.889†	14993.5	1.029	mg/L	0.0060	1.029	mg/L	0.0060	0.58%
Ba 233.527†	64863.0	0.5327	mg/L	0.00322	0.5327	mg/L	0.00322	0.61%
Be 313.107†	215592.2	0.5305	mg/L	0.00574	0.5305	mg/L	0.00574	1.08%
Ca 317.933†	28723.2	4.097	mg/L	0.0082	4.097	mg/L	0.0082	0.20%
Cd 228.802†	44369.9	0.5214	mg/L	0.00180	0.5214	mg/L	0.00180	0.34%
Co 228.616†	38439.7	0.5241	mg/L	0.00281	0.5241	mg/L	0.00281	0.54%
Cr 267.716†	48491.3	0.5227	mg/L	0.00302	0.5227	mg/L	0.00302	0.58%
Cu 327.393†	152328.1	1.059	mg/L	0.0010	1.059	mg/L	0.0010	0.10%
Fe 238.204†	10298.7	4.082	mg/L	0.0015	4.082	mg/L	0.0015	0.04%
K 766.490†	12657.9	4.065	mg/L	0.0426	4.065	mg/L	0.0426	1.05%
Mg 285.213†	39719.2	4.127	mg/L	0.0090	4.127	mg/L	0.0090	0.22%
Mn 257.610†	14452.7	0.5078	mg/L	0.00134	0.5078	mg/L	0.00134	0.26%
Mo 202.031†	9774.5	0.5187	mg/L	0.00424	0.5187	mg/L	0.00424	0.82%
Na 589.592†	34018.3	4.074	mg/L	0.0115	4.074	mg/L	0.0115	0.28%
Ni 231.604†	14936.2	0.5248	mg/L	0.00308	0.5248	mg/L	0.00308	0.59%
Pb 220.353†	4445.5	0.5112	mg/L	0.00346	0.5112	mg/L	0.00346	0.68%
Sb 206.836†	2308.9	0.4987	mg/L	0.00252	0.4987	mg/L	0.00252	0.50%
Se 196.026†	665.1	0.5062	mg/L	0.00454	0.5062	mg/L	0.00454	0.90%
Sn 189.927†	2986.2	0.5012	mg/L	0.00191	0.5012	mg/L	0.00191	0.38%
Ti 337.279†	9954.3	0.5140	mg/L	0.00368	0.5140	mg/L	0.00368	0.72%
Tl 351.924†	4731.0	0.4825	mg/L	0.00788	0.4825	mg/L	0.00788	1.63%
V 290.880†	83051.9	0.5193	mg/L	0.00162	0.5193	mg/L	0.00162	0.31%
Zn 206.200†	48501.8	1.069	mg/L	0.0086	1.069	mg/L	0.0086	0.81%
Zr 343.823†	2094.9	0.0061	mg/L	0.00186	0.0061	mg/L	0.00186	30.55%

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Sequence No.: 15
Sample ID: B374930-BSD1
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 40
Date Collected: 5/22/2024 4:54:14 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: B374930-BSD1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y axial	4044739.4	96.92	%	0.506				0.52%
Y radial	193012.1	93.50	%	1.011				1.08%
Ag 328.068†	120823.3	0.5249	mg/L	0.00202	0.5249	mg/L	0.00202	0.39%
Al 396.153†	2004.4	0.5042	mg/L	0.01031	0.5042	mg/L	0.01031	2.05%
As 188.979†	1067.3	0.4654	mg/L	0.00332	0.4654	mg/L	0.00332	0.71%
B 208.889†	14274.7	0.9796	mg/L	0.00951	0.9796	mg/L	0.00951	0.97%
Ba 233.527†	62221.1	0.5110	mg/L	0.00352	0.5110	mg/L	0.00352	0.69%
Be 313.107†	205305.3	0.5052	mg/L	0.00136	0.5052	mg/L	0.00136	0.27%
Ca 317.933†	28168.4	4.018	mg/L	0.0466	4.018	mg/L	0.0466	1.16%
Cd 228.802†	42716.1	0.5018	mg/L	0.00214	0.5018	mg/L	0.00214	0.43%
Co 228.616†	36879.1	0.5028	mg/L	0.00361	0.5028	mg/L	0.00361	0.72%
Cr 267.716†	46483.9	0.5011	mg/L	0.00262	0.5011	mg/L	0.00262	0.52%
Cu 327.393†	145911.4	1.014	mg/L	0.0097	1.014	mg/L	0.0097	0.95%
Fe 238.204†	10065.3	3.990	mg/L	0.0410	3.990	mg/L	0.0410	1.03%
K 766.490†	12318.9	3.956	mg/L	0.0470	3.956	mg/L	0.0470	1.19%
Mg 285.213†	39111.8	4.064	mg/L	0.0396	4.064	mg/L	0.0396	0.97%
Mn 257.610†	14279.6	0.5018	mg/L	0.00628	0.5018	mg/L	0.00628	1.25%
Mo 202.031†	9400.8	0.4989	mg/L	0.00195	0.4989	mg/L	0.00195	0.39%
Na 589.592†	32782.7	3.926	mg/L	0.0397	3.926	mg/L	0.0397	1.01%
Ni 231.604†	14274.0	0.5015	mg/L	0.00479	0.5015	mg/L	0.00479	0.96%
Pb 220.353†	4309.4	0.4956	mg/L	0.00106	0.4956	mg/L	0.00106	0.21%
Sb 206.836†	2239.4	0.4838	mg/L	0.00044	0.4838	mg/L	0.00044	0.09%
Se 196.026†	650.9	0.4954	mg/L	0.00245	0.4954	mg/L	0.00245	0.49%
Sn 189.927†	2898.3	0.4865	mg/L	0.00116	0.4865	mg/L	0.00116	0.24%
Ti 337.279†	9785.9	0.5053	mg/L	0.00562	0.5053	mg/L	0.00562	1.11%
Tl 351.924†	4525.6	0.4616	mg/L	0.00667	0.4616	mg/L	0.00667	1.45%
V 290.880†	80077.3	0.5007	mg/L	0.00199	0.5007	mg/L	0.00199	0.40%
Zn 206.200†	46801.0	1.031	mg/L	0.0065	1.031	mg/L	0.0065	0.63%
Zr 343.823†	762.7	0.0022	mg/L	0.00035	0.0022	mg/L	0.00035	16.17%

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Sequence No.: 16 **Autosampler Location: 41**
Sample ID: B374930-MS1 **Date Collected: 5/22/2024 4:58:51 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 110 **Auto Dilution Factor: 1**

Mean Data: B374930-MS1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y axial	3809558.2	91.28	%	0.844				0.92%
Y radial	196163.0	95.03	%	0.873				0.92%
Ag 328.068†	125615.9	0.5453	mg/L	0.01030	0.5453	mg/L	0.01030	1.89%
Al 396.153†	2820.1	0.7169	mg/L	0.00605	0.7169	mg/L	0.00605	0.84%
As 188.979†	1130.1	0.4931	mg/L	0.00661	0.4931	mg/L	0.00661	1.34%
B 208.889†	15060.5	1.034	mg/L	0.0148	1.034	mg/L	0.0148	1.43%
Ba 233.527†	71098.9	0.5838	mg/L	0.01171	0.5838	mg/L	0.01171	2.01%
Be 313.107†	207664.8	0.5109	mg/L	0.00857	0.5109	mg/L	0.00857	1.68%
Ca 317.933†	105120.6	14.99	mg/L	0.039	14.99	mg/L	0.039	0.26%
Cd 228.802†	45079.5	0.5294	mg/L	0.01057	0.5294	mg/L	0.01057	2.00%
Co 228.616†	36941.7	0.5037	mg/L	0.01058	0.5037	mg/L	0.01058	2.10%
Cr 267.716†	47078.2	0.5067	mg/L	0.01024	0.5067	mg/L	0.01024	2.02%
Cu 327.393†	163216.6	1.135	mg/L	0.0014	1.135	mg/L	0.0014	0.12%
Fe 238.204†	10769.7	4.269	mg/L	0.0039	4.269	mg/L	0.0039	0.09%
K 766.490†	24157.6	7.759	mg/L	0.0017	7.759	mg/L	0.0017	0.02%
Mg 285.213†	60534.0	6.286	mg/L	0.0098	6.286	mg/L	0.0098	0.16%
Mn 257.610†	63568.0	2.233	mg/L	0.0060	2.233	mg/L	0.0060	0.27%
Mo 202.031†	9626.9	0.5109	mg/L	0.00738	0.5109	mg/L	0.00738	1.45%
Na 589.592†	2756975.3	330.1	mg/L	5.49	330.1	mg/L	5.49	1.66%
Ni 231.604†	14267.9	0.5013	mg/L	0.00759	0.5013	mg/L	0.00759	1.51%
Pb 220.353†	4279.7	0.4918	mg/L	0.00522	0.4918	mg/L	0.00522	1.06%
Sb 206.836†	2320.7	0.5014	mg/L	0.00597	0.5014	mg/L	0.00597	1.19%
Se 196.026†	682.8	0.5177	mg/L	0.00719	0.5177	mg/L	0.00719	1.39%
Sn 189.927†	2826.2	0.4744	mg/L	0.00618	0.4744	mg/L	0.00618	1.30%

Ti 337.279†	10035.2	0.5181 mg/L	0.00124	0.5181 mg/L	0.00124	0.24%
Tl 351.924†	4890.2	0.4989 mg/L	0.01207	0.4989 mg/L	0.01207	2.42%
V 290.880†	82946.1	0.5186 mg/L	0.01170	0.5186 mg/L	0.01170	2.26%
Zn 206.200†	51925.0	1.116 mg/L	0.0227	1.116 mg/L	0.0227	2.04%
Zr 343.823†	564.5	0.0016 mg/L	0.00019	0.0016 mg/L	0.00019	12.39%

Sequence No.: 17 **Autosampler Location: 42**
Sample ID: B374930-PS1 **Date Collected: 5/22/2024 5:03:30 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 110 **Auto Dilution Factor: 1**

Mean Data: B374930-PS1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y axial	3757509.9	90.04	%	0.793				0.88%
Y radial	194354.6	94.15	%	0.163				0.17%
Ag 328.068†	451838.1	1.963	mg/L	0.0057	1.963	mg/L	0.0057	0.29%
Al 396.153†	8757.1	2.210	mg/L	0.0070	2.210	mg/L	0.0070	0.32%
As 188.979†	4540.6	1.980	mg/L	0.0229	1.980	mg/L	0.0229	1.16%
B 208.889†	57822.3	3.968	mg/L	0.0288	3.968	mg/L	0.0288	0.72%
Ba 233.527†	257703.5	2.116	mg/L	0.0049	2.116	mg/L	0.0049	0.23%
Be 313.107†	821908.6	2.022	mg/L	0.0460	2.022	mg/L	0.0460	2.28%
Ca 317.933†	189030.1	26.96	mg/L	0.010	26.96	mg/L	0.010	0.04%
Cd 228.802†	178140.7	2.091	mg/L	0.0051	2.091	mg/L	0.0051	0.25%
Co 228.616†	145469.0	1.983	mg/L	0.0065	1.983	mg/L	0.0065	0.33%
Cr 267.716†	187305.8	2.018	mg/L	0.0053	2.018	mg/L	0.0053	0.26%
Cu 327.393†	615816.4	4.281	mg/L	0.0156	4.281	mg/L	0.0156	0.36%
Fe 238.204†	40764.0	16.16	mg/L	0.021	16.16	mg/L	0.021	0.13%
K 766.490†	61793.8	19.85	mg/L	0.024	19.85	mg/L	0.024	0.12%
Mg 285.213†	176348.5	18.32	mg/L	0.021	18.32	mg/L	0.021	0.12%
Mn 257.610†	105313.2	3.699	mg/L	0.0034	3.699	mg/L	0.0034	0.09%
Mo 202.031†	37894.4	2.011	mg/L	0.0180	2.011	mg/L	0.0180	0.89%
Na 589.592†	2824492.9	338.2	mg/L	7.05	338.2	mg/L	7.05	2.08%
Ni 231.604†	56704.5	1.992	mg/L	0.0220	1.992	mg/L	0.0220	1.10%
Pb 220.353†	16907.7	1.944	mg/L	0.0196	1.944	mg/L	0.0196	1.01%
Sb 206.836†	9326.4	2.015	mg/L	0.0191	2.015	mg/L	0.0191	0.95%
Se 196.026†	2714.1	2.064	mg/L	0.0185	2.064	mg/L	0.0185	0.90%
Sn 189.927†	11694.0	1.963	mg/L	0.0208	1.963	mg/L	0.0208	1.06%
Ti 337.279†	39611.1	2.045	mg/L	0.0037	2.045	mg/L	0.0037	0.18%
Tl 351.924†	19921.0	2.032	mg/L	0.0206	2.032	mg/L	0.0206	1.02%
V 290.880†	328825.0	2.056	mg/L	0.0065	2.056	mg/L	0.0065	0.31%
Zn 206.200†	195094.8	4.272	mg/L	0.0192	4.272	mg/L	0.0192	0.45%
Zr 343.823†	1165.6	0.0031	mg/L	0.00066	0.0031	mg/L	0.00066	21.50%

Sequence No.: 18 **Autosampler Location: 43**
Sample ID: B374930-SRL1 **Date Collected: 5/22/2024 5:08:05 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 110 **Auto Dilution Factor: 1**

Mean Data: B374930-SRL1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y axial	3965212.8	95.01	%	1.321				1.39%
Y radial	199459.2	96.62	%	0.360				0.37%
Ag 328.068†	290.4	0.0012	mg/L	0.00006	0.0012	mg/L	0.00006	5.26%
Al 396.153†	162.7	0.0424	mg/L	0.00073	0.0424	mg/L	0.00073	1.71%
As 188.979†	6.7	0.0030	mg/L	0.00159	0.0030	mg/L	0.00159	53.76%
B 208.889†	564.1	0.0396	mg/L	0.00310	0.0396	mg/L	0.00310	7.83%
Ba 233.527†	1626.4	0.0133	mg/L	0.00019	0.0133	mg/L	0.00019	1.44%
Be 313.107†	260.6	0.0006	mg/L	0.00004	0.0006	mg/L	0.00004	6.00%
Ca 317.933†	15464.6	2.206	mg/L	0.0092	2.206	mg/L	0.0092	0.42%
Cd 228.802†	14.5	0.0001	mg/L	0.00013	0.0001	mg/L	0.00013	121.01%

Co 228.616†	4.4	0.0001 mg/L	0.00010	0.0001 mg/L	0.00010	153.69%
Cr 267.716†	9.1	-0.0001 mg/L	0.00024	-0.0001 mg/L	0.00024	475.03%
Cu 327.393†	2544.1	0.0177 mg/L	0.00079	0.0177 mg/L	0.00079	4.47%
Fe 238.204†	98.3	0.0390 mg/L	0.00239	0.0390 mg/L	0.00239	6.14%
K 766.490†	2330.1	0.7484 mg/L	0.01654	0.7484 mg/L	0.01654	2.21%
Mg 285.213†	4218.9	0.4375 mg/L	0.00300	0.4375 mg/L	0.00300	0.68%
Mn 257.610†	9856.4	0.3461 mg/L	0.00066	0.3461 mg/L	0.00066	0.19%
Mo 202.031†	39.2	0.0021 mg/L	0.00055	0.0021 mg/L	0.00055	26.66%
Na 589.592†	561812.9	67.27 mg/L	0.546	67.27 mg/L	0.546	0.81%
Ni 231.604†	-66.1	-0.0023 mg/L	0.00032	-0.0023 mg/L	0.00032	13.57%
Pb 220.353†	7.3	0.0008 mg/L	0.00121	0.0008 mg/L	0.00121	155.25%
Sb 206.836†	-1.6	-0.0004 mg/L	0.00054	-0.0004 mg/L	0.00054	145.77%
Se 196.026†	1.1	0.0004 mg/L	0.00227	0.0004 mg/L	0.00227	510.82%
Sn 189.927†	-21.4	-0.0036 mg/L	0.00105	-0.0036 mg/L	0.00105	29.11%
Ti 337.279†	38.4	0.0020 mg/L	0.00028	0.0020 mg/L	0.00028	14.15%
Tl 351.924†	-12.8	-0.0013 mg/L	0.00750	-0.0013 mg/L	0.00750	578.36%
V 290.880†	92.1	0.0006 mg/L	0.00047	0.0006 mg/L	0.00047	82.10%
Zn 206.200†	498.2	0.0052 mg/L	0.00037	0.0052 mg/L	0.00037	7.12%
Zr 343.823†	9.6	0.0000 mg/L	0.00002	0.0000 mg/L	0.00002	63.86%

Sequence No.: 19 **Autosampler Location: 44**
Sample ID: B374930-DUP1 **Date Collected: 5/22/2024 5:13:43 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 110 **Auto Dilution Factor: 1**

Mean Data: B374930-DUP1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y axial	3799858.9	91.05	%	0.935				1.03%
Y radial	196584.8	95.23	%	1.105				1.16%
Ag 328.068†	386.1	0.0013	mg/L	0.00034	0.0013	mg/L	0.00034	26.24%
Al 396.153†	682.1	0.1782	mg/L	0.00120	0.1782	mg/L	0.00120	0.67%
As 188.979†	0.5	0.0005	mg/L	0.00252	0.0005	mg/L	0.00252	486.26%
B 208.889†	599.0	0.0420	mg/L	0.00043	0.0420	mg/L	0.00043	1.02%
Ba 233.527†	7566.9	0.0621	mg/L	0.00062	0.0621	mg/L	0.00062	1.00%
Be 313.107†	135.8	0.0003	mg/L	0.00003	0.0003	mg/L	0.00003	11.27%
Ca 317.933†	72801.8	10.38	mg/L	0.072	10.38	mg/L	0.072	0.69%
Cd 228.802†	17.6	0.0002	mg/L	0.00005	0.0002	mg/L	0.00005	21.26%
Co 228.616†	138.1	0.0019	mg/L	0.00008	0.0019	mg/L	0.00008	4.44%
Cr 267.716†	127.3	0.0007	mg/L	0.00019	0.0007	mg/L	0.00019	28.40%
Cu 327.393†	3580.2	0.0249	mg/L	0.00019	0.0249	mg/L	0.00019	0.76%
Fe 238.204†	595.6	0.2360	mg/L	0.00182	0.2360	mg/L	0.00182	0.77%
K 766.490†	10992.5	3.530	mg/L	0.0197	3.530	mg/L	0.0197	0.56%
Mg 285.213†	20440.9	2.120	mg/L	0.0096	2.120	mg/L	0.0096	0.45%
Mn 257.610†	46472.1	1.632	mg/L	0.0091	1.632	mg/L	0.0091	0.56%
Mo 202.031†	65.7	0.0035	mg/L	0.00018	0.0035	mg/L	0.00018	5.14%
Na 589.592†	2576336.0	308.5	mg/L	8.99	308.5	mg/L	8.99	2.91%
Ni 231.604†	0.0	0.0000	mg/L	0.00008	0.0000	mg/L	0.00008	>999.9%
Pb 220.353†	9.5	0.0009	mg/L	0.00043	0.0009	mg/L	0.00043	48.17%
Sb 206.836†	5.8	0.0012	mg/L	0.00076	0.0012	mg/L	0.00076	63.72%
Se 196.026†	2.8	0.0002	mg/L	0.00224	0.0002	mg/L	0.00224	>999.9%
Sn 189.927†	-90.8	-0.0152	mg/L	0.00119	-0.0152	mg/L	0.00119	7.84%
Ti 337.279†	151.0	0.0078	mg/L	0.00035	0.0078	mg/L	0.00035	4.53%
Tl 351.924†	-35.6	-0.0035	mg/L	0.00522	-0.0035	mg/L	0.00522	147.24%
V 290.880†	865.6	0.0054	mg/L	0.00069	0.0054	mg/L	0.00069	12.86%
Zn 206.200†	1753.8	0.0124	mg/L	0.00102	0.0124	mg/L	0.00102	8.26%
Zr 343.823†	26.9	0.0001	mg/L	0.00007	0.0001	mg/L	0.00007	88.27%

Sequence No.: 20 **Autosampler Location: 45**
Sample ID: 24E1964-01 **Date Collected: 5/22/2024 5:19:21 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 110 **Auto Dilution Factor: 1**

Mean Data: 24E1964-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y axial	3746428.2	89.77	%	0.192				0.21%
Y radial	190746.6	92.40	%	0.707				0.76%
Ag 328.068†	389.3	0.0013	mg/L	0.00020	0.0013	mg/L	0.00020	15.47%
Al 396.153†	728.9	0.1904	mg/L	0.00141	0.1904	mg/L	0.00141	0.74%
As 188.979†	-5.1	-0.0019	mg/L	0.00093	-0.0019	mg/L	0.00093	49.19%
B 208.889†	534.8	0.0374	mg/L	0.00080	0.0374	mg/L	0.00080	2.13%
Ba 233.527†	8233.4	0.0675	mg/L	0.00049	0.0675	mg/L	0.00049	0.73%
Be 313.107†	84.7	0.0002	mg/L	0.00003	0.0002	mg/L	0.00003	14.29%
Ca 317.933†	79257.1	11.30	mg/L	0.049	11.30	mg/L	0.049	0.43%
Cd 228.802†	14.8	0.0002	mg/L	0.00011	0.0002	mg/L	0.00011	46.99%
Co 228.616†	152.2	0.0021	mg/L	0.00021	0.0021	mg/L	0.00021	10.20%
Cr 267.716†	133.6	0.0007	mg/L	0.00001	0.0007	mg/L	0.00001	1.38%
Cu 327.393†	3024.0	0.0210	mg/L	0.00023	0.0210	mg/L	0.00023	1.08%
Fe 238.204†	658.8	0.2610	mg/L	0.00347	0.2610	mg/L	0.00347	1.33%
K 766.490†	11733.2	3.768	mg/L	0.0371	3.768	mg/L	0.0371	0.98%
Mg 285.213†	22416.0	2.325	mg/L	0.0112	2.325	mg/L	0.0112	0.48%
Mn 257.610†	50931.7	1.789	mg/L	0.0070	1.789	mg/L	0.0070	0.39%
Mo 202.031†	73.0	0.0039	mg/L	0.00011	0.0039	mg/L	0.00011	2.75%
Na 589.592†	2761503.9	330.7	mg/L	1.47	330.7	mg/L	1.47	0.44%
Ni 231.604†	7.7	0.0003	mg/L	0.00022	0.0003	mg/L	0.00022	80.10%
Pb 220.353†	8.8	0.0008	mg/L	0.00127	0.0008	mg/L	0.00127	157.43%
Sb 206.836†	6.7	0.0014	mg/L	0.00030	0.0014	mg/L	0.00030	21.42%
Se 196.026†	1.6	-0.0009	mg/L	0.00372	-0.0009	mg/L	0.00372	421.04%
Sn 189.927†	-101.5	-0.0170	mg/L	0.00066	-0.0170	mg/L	0.00066	3.87%
Ti 337.279†	162.3	0.0084	mg/L	0.00017	0.0084	mg/L	0.00017	1.99%
Tl 351.924†	-15.1	-0.0014	mg/L	0.00683	-0.0014	mg/L	0.00683	477.68%
V 290.880†	984.0	0.0061	mg/L	0.00047	0.0061	mg/L	0.00047	7.64%
Zn 206.200†	1785.2	0.0112	mg/L	0.00011	0.0112	mg/L	0.00011	0.99%
Zr 343.823†	74.0	0.0002	mg/L	0.00010	0.0002	mg/L	0.00010	49.23%

User canceled analysis.

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Analysis Begun

Start Time: 5/22/2024 5:24:47 PM **Plasma On Time: 5/22/2024 7:48:16 AM**
Logged In Analyst: ICP2 **Technique: ICP Continuous**
Spectrometer: Optima 4300 DV, S/N 069N-na **Autosampler: S10**

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0522A24.sif
Batch ID: Optima 2
Results Data Set: 0522B24
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

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Sequence No.: 1 **Autosampler Location: 8**
Sample ID: SEQ-ICV@ 23K0257 **Date Collected: 5/22/2024 5:24:48 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time:
User canceled analysis.

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Analysis Begun

Start Time: 5/22/2024 5:25:10 PM **Plasma On Time: 5/22/2024 7:48:16 AM**
Logged In Analyst: ICP2 **Technique: ICP Continuous**
Spectrometer: Optima 4300 DV, S/N 069N-na **Autosampler: S10**

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\0522A24.sif
Batch ID: Optima 2
Results Data Set: 0522B24
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Results.mdb

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Sequence No.: 21 **Autosampler Location: 46**
Sample ID: 24E1964-02 **Date Collected: 5/22/2024 5:25:10 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time:

Mean Data: 24E1964-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y axial	3764528.5	90.20	%	0.343				0.38%
Y radial	190304.8	92.19	%	0.508				0.55%
Ag 328.068†	176.7	0.0006	mg/L	0.00056	0.0006	mg/L	0.00056	87.18%
Al 396.153†	11072.2	2.894	mg/L	0.0083	2.894	mg/L	0.0083	0.29%
As 188.979†	-19.4	-0.0029	mg/L	0.00034	-0.0029	mg/L	0.00034	11.50%
B 208.889†	156.7	0.0109	mg/L	0.00018	0.0109	mg/L	0.00018	1.65%
Ba 233.527†	61285.5	0.5025	mg/L	0.00061	0.5025	mg/L	0.00061	0.12%
Be 313.107†	107.6	0.0002	mg/L	0.00005	0.0002	mg/L	0.00005	23.90%
Ca 317.933†	975726.8	139.2	mg/L	0.42	139.2	mg/L	0.42	0.30%
Cd 228.802†	27.3	0.0005	mg/L	0.00009	0.0005	mg/L	0.00009	16.37%
Co 228.616†	479.1	0.0062	mg/L	0.00022	0.0062	mg/L	0.00022	3.56%
Cr 267.716†	448.8	0.0044	mg/L	0.00015	0.0044	mg/L	0.00015	3.45%
Cu 327.393†	2045.3	0.0142	mg/L	0.00018	0.0142	mg/L	0.00018	1.29%
Fe 238.204†	7751.8	3.071	mg/L	0.0146	3.071	mg/L	0.0146	0.48%
K 766.490†	22464.8	7.215	mg/L	0.0284	7.215	mg/L	0.0284	0.39%
Mg 285.213†	477587.8	49.56	mg/L	0.120	49.56	mg/L	0.120	0.24%
Mn 257.610†	26931.0	0.9460	mg/L	0.00286	0.9460	mg/L	0.00286	0.30%
Mo 202.031†	46.0	0.0024	mg/L	0.00018	0.0024	mg/L	0.00018	7.25%
Na 589.592†	906685.5	108.6	mg/L	0.32	108.6	mg/L	0.32	0.30%
Ni 231.604†	254.5	0.0089	mg/L	0.00030	0.0089	mg/L	0.00030	3.33%
Pb 220.353†	44.8	0.0053	mg/L	0.00034	0.0053	mg/L	0.00034	6.50%
Sb 206.836†	16.3	0.0033	mg/L	0.00080	0.0033	mg/L	0.00080	24.24%
Se 196.026†	11.3	-0.0157	mg/L	0.00256	-0.0157	mg/L	0.00256	16.28%
Sn 189.927†	-374.9	-0.0629	mg/L	0.00081	-0.0629	mg/L	0.00081	1.28%

Ti 337.279†	3592.5	0.1855 mg/L	0.00101	0.1855 mg/L	0.00101	0.54%
Tl 351.924†	-22.8	-0.0010 mg/L	0.00261	-0.0010 mg/L	0.00261	255.64%
V 290.880†	1802.8	0.0111 mg/L	0.00097	0.0111 mg/L	0.00097	8.75%
Zn 206.200†	625.4	0.0044 mg/L	0.00016	0.0044 mg/L	0.00016	3.78%
Zr 343.823†	327.0	0.0009 mg/L	0.00002	0.0009 mg/L	0.00002	2.39%

Sequence No.: 22 **Autosampler Location: 47**
Sample ID: 24E1964-03 **Date Collected: 5/22/2024 5:30:44 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 110 **Auto Dilution Factor: 1**

Mean Data: 24E1964-03

	Mean Corrected	Calib.		Sample		
Analyte	**Intensity**	**Conc. Units**	**Std.Dev.**	**Conc. Units**	**Std.Dev.**	**RSD**
Y axial	4001713.6	95.89 %	0.984			1.03%
Y radial	196036.1	94.97 %	0.788			0.83%
Ag 328.068†	438.0	0.0015 mg/L	0.00071	0.0015 mg/L	0.00071	48.18%
Al 396.153†	57.9	0.0151 mg/L	0.00035	0.0151 mg/L	0.00035	2.28%
As 188.979†	-11.8	-0.0043 mg/L	0.00086	-0.0043 mg/L	0.00086	20.18%
B 208.889†	201.4	0.0141 mg/L	0.00071	0.0141 mg/L	0.00071	5.02%
Ba 233.527†	2516.2	0.0206 mg/L	0.00028	0.0206 mg/L	0.00028	1.38%
Be 313.107†	58.2	0.0001 mg/L	0.00003	0.0001 mg/L	0.00003	24.65%
Ca 317.933†	216897.4	30.94 mg/L	0.028	30.94 mg/L	0.028	0.09%
Cd 228.802†	4.7	0.0002 mg/L	0.00008	0.0002 mg/L	0.00008	39.80%
Co 228.616†	421.9	0.0058 mg/L	0.00008	0.0058 mg/L	0.00008	1.35%
Cr 267.716†	88.2	0.0001 mg/L	0.00015	0.0001 mg/L	0.00015	100.90%
Cu 327.393†	1172.6	0.0082 mg/L	0.00005	0.0082 mg/L	0.00005	0.62%
Fe 238.204†	1901.1	0.7531 mg/L	0.00808	0.7531 mg/L	0.00808	1.07%
K 766.490†	8448.1	2.713 mg/L	0.0228	2.713 mg/L	0.0228	0.84%
Mg 285.213†	91319.8	9.475 mg/L	0.0067	9.475 mg/L	0.0067	0.07%
Mn 257.610†	53239.7	1.870 mg/L	0.0009	1.870 mg/L	0.0009	0.05%
Mo 202.031†	13.4	0.0007 mg/L	0.00027	0.0007 mg/L	0.00027	38.47%
Na 589.592†	21132.5	2.531 mg/L	0.0097	2.531 mg/L	0.0097	0.38%
Ni 231.604†	30.5	0.0011 mg/L	0.00030	0.0011 mg/L	0.00030	27.70%
Pb 220.353†	21.0	0.0022 mg/L	0.00101	0.0022 mg/L	0.00101	46.30%
Sb 206.836†	3.6	0.0006 mg/L	0.00029	0.0006 mg/L	0.00029	46.48%
Se 196.026†	7.8	0.0004 mg/L	0.00225	0.0004 mg/L	0.00225	542.65%
Sn 189.927†	-196.7	-0.0330 mg/L	0.00073	-0.0330 mg/L	0.00073	2.22%
Ti 337.279†	23.1	0.0012 mg/L	0.00042	0.0012 mg/L	0.00042	35.39%
Tl 351.924†	-70.6	-0.0067 mg/L	0.00369	-0.0067 mg/L	0.00369	54.80%
V 290.880†	194.7	0.0012 mg/L	0.00082	0.0012 mg/L	0.00082	70.64%
Zn 206.200†	1227.8	0.0268 mg/L	0.00038	0.0268 mg/L	0.00038	1.41%
Zr 343.823†	109.7	0.0003 mg/L	0.00005	0.0003 mg/L	0.00005	17.16%

Sequence No.: 23 **Autosampler Location: 5**
Sample ID: SEQ-CCV@ 23J0975 **Date Collected: 5/22/2024 5:36:16 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 110 **Auto Dilution Factor: 1**

Mean Data: SEQ-CCV@ 23J0975

	Mean Corrected	Calib.		Sample		
Analyte	**Intensity**	**Conc. Units**	**Std.Dev.**	**Conc. Units**	**Std.Dev.**	**RSD**
Y axial	3953132.7	94.72 %	0.356			0.38%
Y radial	199278.2	96.54 %	0.980			1.02%
Ag 328.068†	585032.4	2.511 mg/L	0.0100	2.511 mg/L	0.0100	0.40%
QC value within limits for Ag 328.068 Recovery = 100.44%						
Al 396.153†	38956.1	9.915 mg/L	0.0369	9.915 mg/L	0.0369	0.37%
QC value within limits for Al 396.153 Recovery = 99.15%						
As 188.979†	11283.1	4.909 mg/L	0.0215	4.909 mg/L	0.0215	0.44%
QC value within limits for As 188.979 Recovery = 98.18%						
B 208.889†	71352.6	4.769 mg/L	0.0131	4.769 mg/L	0.0131	0.27%
QC value within limits for B 208.889 Recovery = 95.37%						

Ba 233.527†	623704.9	5.127 mg/L	0.0095	5.127 mg/L	0.0095	0.19%
QC value within limits for Ba 233.527 Recovery = 102.54%						
Be 313.107†	1991255.9	4.898 mg/L	0.0560	4.898 mg/L	0.0560	1.14%
QC value within limits for Be 313.107 Recovery = 97.96%						
Ca 317.933†	70623.6	10.07 mg/L	0.039	10.07 mg/L	0.039	0.39%
QC value within limits for Ca 317.933 Recovery = 100.73%						
Cd 228.802†	432511.6	5.076 mg/L	0.0048	5.076 mg/L	0.0048	0.09%
QC value within limits for Cd 228.802 Recovery = 101.52%						
Co 228.616†	374796.9	5.111 mg/L	0.0108	5.111 mg/L	0.0108	0.21%
QC value within limits for Co 228.616 Recovery = 102.21%						
Cr 267.716†	470926.2	5.077 mg/L	0.0075	5.077 mg/L	0.0075	0.15%
QC value within limits for Cr 267.716 Recovery = 101.54%						
Cu 327.393†	702276.9	4.900 mg/L	0.0061	4.900 mg/L	0.0061	0.12%
QC value within limits for Cu 327.393 Recovery = 98.00%						
Fe 238.204†	12566.1	5.005 mg/L	0.0077	5.005 mg/L	0.0077	0.15%
QC value within limits for Fe 238.204 Recovery = 100.10%						
K 766.490†	30942.5	9.938 mg/L	0.0397	9.938 mg/L	0.0397	0.40%
QC value within limits for K 766.490 Recovery = 99.38%						
Mg 285.213†	96761.3	10.02 mg/L	0.031	10.02 mg/L	0.031	0.31%
QC value within limits for Mg 285.213 Recovery = 100.24%						
Mn 257.610†	140913.4	4.949 mg/L	0.0162	4.949 mg/L	0.0162	0.33%
QC value within limits for Mn 257.610 Recovery = 98.98%						
Mo 202.031†	94902.4	5.036 mg/L	0.0129	5.036 mg/L	0.0129	0.26%
QC value within limits for Mo 202.031 Recovery = 100.73%						
Na 589.592†	83467.3	9.995 mg/L	0.1146	9.995 mg/L	0.1146	1.15%
QC value within limits for Na 589.592 Recovery = 99.95%						
Ni 231.604†	144542.0	5.080 mg/L	0.0097	5.080 mg/L	0.0097	0.19%
QC value within limits for Ni 231.604 Recovery = 101.61%						
Pb 220.353†	43715.4	5.040 mg/L	0.0182	5.040 mg/L	0.0182	0.36%
QC value within limits for Pb 220.353 Recovery = 100.81%						
Sb 206.836†	22497.5	4.862 mg/L	0.0149	4.862 mg/L	0.0149	0.31%
QC value within limits for Sb 206.836 Recovery = 97.23%						
Se 196.026†	6525.5	4.976 mg/L	0.0143	4.976 mg/L	0.0143	0.29%
QC value within limits for Se 196.026 Recovery = 99.53%						
Sn 189.927†	29940.3	5.020 mg/L	0.0197	5.020 mg/L	0.0197	0.39%
QC value within limits for Sn 189.927 Recovery = 100.40%						
Ti 337.279†	95412.6	4.924 mg/L	0.0183	4.924 mg/L	0.0183	0.37%
QC value within limits for Ti 337.279 Recovery = 98.47%						
Tl 351.924†	24009.9	2.413 mg/L	0.0069	2.413 mg/L	0.0069	0.29%
QC value within limits for Tl 351.924 Recovery = 96.54%						
V 290.880†	825188.3	5.162 mg/L	0.0139	5.162 mg/L	0.0139	0.27%
QC value within limits for V 290.880 Recovery = 103.25%						
Zn 206.200†	233987.2	5.179 mg/L	0.0126	5.179 mg/L	0.0126	0.24%
QC value within limits for Zn 206.200 Recovery = 103.58%						
Zr 343.823†	1676663.3	4.962 mg/L	0.0083	4.962 mg/L	0.0083	0.17%

All analyte(s) passed QC.

Sequence No.: 24 **Autosampler Location: 1**
Sample ID: SEQ-CCB@ 23J0970 **Date Collected: 5/22/2024 5:42:53 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 230 **Auto Dilution Factor: 1**

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	4029971.3	96.56	%	1.229				1.27%
Y radial	195191.9	94.56	%	1.425				1.51%
Ag 328.068†	475.1	0.0020	mg/L	0.00024	0.0020	mg/L	0.00024	11.83%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	20.8	0.0054	mg/L	0.00430	0.0054	mg/L	0.00430	80.00%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	-1.6	-0.0007	mg/L	0.00140	-0.0007	mg/L	0.00140	198.04%
QC value within limits for As 188.979 Recovery = Not calculated								
B 208.889†	230.0	0.0161	mg/L	0.00128	0.0161	mg/L	0.00128	7.94%
QC value within limits for B 208.889 Recovery = Not calculated								
Ba 233.527†	20.9	0.0002	mg/L	0.00010	0.0002	mg/L	0.00010	60.45%

QC value within limits for Ba 233.527 Recovery = Not calculated

Be 313.107†	127.6	0.0003 mg/L	0.00003	0.0003 mg/L	0.00003	10.12%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933†	2.0	0.0003 mg/L	0.00283	0.0003 mg/L	0.00283	>999.9%
QC value within limits for Ca 317.933 Recovery = Not calculated						
Cd 228.802†	22.0	0.0003 mg/L	0.00008	0.0003 mg/L	0.00008	28.32%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	-25.4	-0.0003 mg/L	0.00013	-0.0003 mg/L	0.00013	38.11%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-67.6	-0.0007 mg/L	0.00009	-0.0007 mg/L	0.00009	12.89%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 327.393†	2437.4	0.0169 mg/L	0.00082	0.0169 mg/L	0.00082	4.86%
QC value greater than the upper limit for Cu 327.393 Recovery = Not calculated						
Fe 238.204†	-55.7	-0.0221 mg/L	0.00109	-0.0221 mg/L	0.00109	4.93%
QC value within limits for Fe 238.204 Recovery = Not calculated						
K 766.490†	15.3	0.0049 mg/L	0.01562	0.0049 mg/L	0.01562	317.20%
QC value within limits for K 766.490 Recovery = Not calculated						
Mg 285.213†	-127.8	-0.0133 mg/L	0.00110	-0.0133 mg/L	0.00110	8.25%
QC value within limits for Mg 285.213 Recovery = Not calculated						
Mn 257.610†	-38.2	-0.0013 mg/L	0.00012	-0.0013 mg/L	0.00012	8.70%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	28.0	0.0015 mg/L	0.00019	0.0015 mg/L	0.00019	12.77%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592†	98.5	0.0118 mg/L	0.00228	0.0118 mg/L	0.00228	19.31%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	-82.9	-0.0029 mg/L	0.00005	-0.0029 mg/L	0.00005	1.69%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	-0.2	-0.0001 mg/L	0.00050	-0.0001 mg/L	0.00050	893.17%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	-5.0	-0.0011 mg/L	0.00107	-0.0011 mg/L	0.00107	100.43%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-2.2	-0.0017 mg/L	0.00326	-0.0017 mg/L	0.00326	192.53%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	7.4	0.0013 mg/L	0.00040	0.0013 mg/L	0.00040	32.26%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	14.9	0.0008 mg/L	0.00024	0.0008 mg/L	0.00024	31.78%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 351.924†	-47.0	-0.0048 mg/L	0.00210	-0.0048 mg/L	0.00210	43.61%
QC value within limits for Tl 351.924 Recovery = Not calculated						
V 290.880†	-246.1	-0.0015 mg/L	0.00053	-0.0015 mg/L	0.00053	34.27%
QC value within limits for V 290.880 Recovery = Not calculated						
Zn 206.200†	188.7	0.0041 mg/L	0.00030	0.0041 mg/L	0.00030	7.14%
QC value within limits for Zn 206.200 Recovery = Not calculated						
Zr 343.823†	-34.9	-0.0001 mg/L	0.00014	-0.0001 mg/L	0.00014	131.78%

QC Failed. Continue with analysis.

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Sequence No.: 25 **Autosampler Location: 48**
Sample ID: 24E1964-04 **Date Collected: 5/22/2024 5:48:24 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 110 **Auto Dilution Factor: 1**

Mean Data: 24E1964-04

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y axial	3940458.4	94.42	%	0.655				0.69%
Y radial	196098.7	95.00	%	0.671				0.71%
Ag 328.068†	370.1	0.0016	mg/L	0.00028	0.0016	mg/L	0.00028	17.24%
Al 396.153†	261.3	0.0683	mg/L	0.00101	0.0683	mg/L	0.00101	1.48%
As 188.979†	-15.9	-0.0050	mg/L	0.00253	-0.0050	mg/L	0.00253	50.14%
B 208.889†	166.4	0.0116	mg/L	0.00058	0.0116	mg/L	0.00058	4.98%
Ba 233.527†	13859.1	0.1137	mg/L	0.00057	0.1137	mg/L	0.00057	0.50%
Be 313.107†	50.0	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	18.71%
Ca 317.933†	594760.2	84.83	mg/L	0.134	84.83	mg/L	0.134	0.16%
Cd 228.802†	15.7	0.0003	mg/L	0.00010	0.0003	mg/L	0.00010	28.32%
Co 228.616†	89.3	0.0012	mg/L	0.00015	0.0012	mg/L	0.00015	12.67%
Cr 267.716†	100.0	0.0010	mg/L	0.00005	0.0010	mg/L	0.00005	4.52%

Cu 327.393†	2048.3	0.0142 mg/L	0.00035	0.0142 mg/L	0.00035	2.43%
Fe 238.204†	413.6	0.1639 mg/L	0.00153	0.1639 mg/L	0.00153	0.94%
K 766.490†	12328.6	3.960 mg/L	0.0176	3.960 mg/L	0.0176	0.44%
Mg 285.213†	330707.9	34.32 mg/L	0.117	34.32 mg/L	0.117	0.34%
Mn 257.610†	2461.4	0.0864 mg/L	0.00076	0.0864 mg/L	0.00076	0.88%
Mo 202.031†	23.3	0.0012 mg/L	0.00020	0.0012 mg/L	0.00020	16.14%
Na 589.592†	152000.6	18.20 mg/L	0.084	18.20 mg/L	0.084	0.46%
Ni 231.604†	47.4	0.0017 mg/L	0.00017	0.0017 mg/L	0.00017	10.11%
Pb 220.353†	20.3	0.0023 mg/L	0.00063	0.0023 mg/L	0.00063	27.41%
Sb 206.836†	15.6	0.0031 mg/L	0.00026	0.0031 mg/L	0.00026	8.37%
Se 196.026†	8.3	-0.0092 mg/L	0.00025	-0.0092 mg/L	0.00025	2.71%
Sn 189.927†	-314.9	-0.0528 mg/L	0.00082	-0.0528 mg/L	0.00082	1.55%
Ti 337.279†	141.3	0.0073 mg/L	0.00011	0.0073 mg/L	0.00011	1.46%
Tl 351.924†	-9.7	-0.0009 mg/L	0.00103	-0.0009 mg/L	0.00103	110.66%
V 290.880†	664.6	0.0041 mg/L	0.00019	0.0041 mg/L	0.00019	4.62%
Zn 206.200†	690.0	0.0136 mg/L	0.00015	0.0136 mg/L	0.00015	1.10%
Zr 343.823†	150.2	0.0004 mg/L	0.00003	0.0004 mg/L	0.00003	7.47%

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Sequence No.: 26
Sample ID: 24E1964-05
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 49
Date Collected: 5/22/2024 5:53:56 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: 24E1964-05

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y axial	3485032.2	83.51	%	0.814				0.97%
Y radial	185815.1	90.01	%	0.604				0.67%
Ag 328.068†	1811.4	-0.0014	mg/L	0.00008	-0.0014	mg/L	0.00008	5.90%
Al 396.153†	73.7	0.0208	mg/L	0.00489	0.0208	mg/L	0.00489	23.52%
As 188.979†	-47.1	-0.0076	mg/L	0.00111	-0.0076	mg/L	0.00111	14.57%
B 208.889†	225.4	0.0160	mg/L	0.00062	0.0160	mg/L	0.00062	3.89%
Ba 233.527†	115123.0	0.9412	mg/L	0.00519	0.9412	mg/L	0.00519	0.55%
Be 313.107†	46.1	0.0000	mg/L	0.00002	0.0000	mg/L	0.00002	42.74%
Ca 317.933†	1738145.3	247.9	mg/L	0.92	247.9	mg/L	0.92	0.37%
Cd 228.802†	21.0	0.0016	mg/L	0.00010	0.0016	mg/L	0.00010	6.35%
Co 228.616†	9165.3	0.1250	mg/L	0.00174	0.1250	mg/L	0.00174	1.39%
Cr 267.716†	1581.1	-0.0007	mg/L	0.00027	-0.0007	mg/L	0.00027	41.22%
Cu 327.393†	896.2	0.0062	mg/L	0.00021	0.0062	mg/L	0.00021	3.39%
Fe 238.204†	66774.9	26.45	mg/L	0.078	26.45	mg/L	0.078	0.29%
K 766.490†	39216.5	12.60	mg/L	0.019	12.60	mg/L	0.019	0.15%
Mg 285.213†	782853.0	81.24	mg/L	0.162	81.24	mg/L	0.162	0.20%
Mn 257.610†	1169040.3	41.05	mg/L	0.127	41.05	mg/L	0.127	0.31%
Mo 202.031†	-65.7	-0.0035	mg/L	0.00033	-0.0035	mg/L	0.00033	9.49%
Na 589.592†	5030521.1	602.4	mg/L	1.62	602.4	mg/L	1.62	0.27%
Ni 231.604†	1351.8	0.0475	mg/L	0.00066	0.0475	mg/L	0.00066	1.39%
Pb 220.353†	70.2	0.0030	mg/L	0.00049	0.0030	mg/L	0.00049	16.44%
Sb 206.836†	22.3	0.0053	mg/L	0.00187	0.0053	mg/L	0.00187	35.17%
Se 196.026†	37.3	-0.0237	mg/L	0.00426	-0.0237	mg/L	0.00426	18.01%
Sn 189.927†	-459.3	-0.0771	mg/L	0.00082	-0.0771	mg/L	0.00082	1.06%
Ti 337.279†	34.1	0.0018	mg/L	0.00019	0.0018	mg/L	0.00019	10.67%
Tl 351.924†	-259.1	-0.0094	mg/L	0.00031	-0.0094	mg/L	0.00031	3.26%
V 290.880†	2380.9	0.0130	mg/L	0.00065	0.0130	mg/L	0.00065	5.04%
Zn 206.200†	1796.1	-0.0134	mg/L	0.00059	-0.0134	mg/L	0.00059	4.43%
Zr 343.823†	432.8	0.0007	mg/L	0.00002	0.0007	mg/L	0.00002	3.23%

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Sequence No.: 27
Sample ID: 24E1964-06
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 50
Date Collected: 5/22/2024 5:59:39 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: 24E1964-06

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	4011707.3	96.13	%	0.736				0.77%
Y radial	193602.8	93.79	%	3.110				3.32%
Ag 328.068†	459.2	0.0019	mg/L	0.00034	0.0019	mg/L	0.00034	17.79%
Al 396.153†	43.8	0.0112	mg/L	0.00192	0.0112	mg/L	0.00192	17.13%
As 188.979†	0.8	0.0006	mg/L	0.00191	0.0006	mg/L	0.00191	334.41%
B 208.889†	155.3	0.0106	mg/L	0.00029	0.0106	mg/L	0.00029	2.76%
Ba 233.527†	6575.1	0.0539	mg/L	0.00043	0.0539	mg/L	0.00043	0.79%
Be 313.107†	-33.1	-0.0001	mg/L	0.00002	-0.0001	mg/L	0.00002	24.05%
Ca 317.933†	73794.8	10.53	mg/L	0.036	10.53	mg/L	0.036	0.34%
Cd 228.802†	14.1	0.0002	mg/L	0.00006	0.0002	mg/L	0.00006	36.76%
Co 228.616†	67.7	0.0009	mg/L	0.00008	0.0009	mg/L	0.00008	8.48%
Cr 267.716†	-26.6	-0.0005	mg/L	0.00014	-0.0005	mg/L	0.00014	29.33%
Cu 327.393†	1152.4	0.0080	mg/L	0.00027	0.0080	mg/L	0.00027	3.42%
Fe 238.204†	476.8	0.1889	mg/L	0.00749	0.1889	mg/L	0.00749	3.97%
K 766.490†	11278.7	3.622	mg/L	0.0316	3.622	mg/L	0.0316	0.87%
Mg 285.213†	30038.8	3.116	mg/L	0.0130	3.116	mg/L	0.0130	0.42%
Mn 257.610†	12576.9	0.4417	mg/L	0.00342	0.4417	mg/L	0.00342	0.78%
Mo 202.031†	117.3	0.0062	mg/L	0.00035	0.0062	mg/L	0.00035	5.63%
Na 589.592†	133436.2	15.98	mg/L	0.070	15.98	mg/L	0.070	0.44%
Ni 231.604†	72.1	0.0025	mg/L	0.00013	0.0025	mg/L	0.00013	5.10%
Pb 220.353†	7.9	0.0009	mg/L	0.00043	0.0009	mg/L	0.00043	51.00%
Sb 206.836†	0.2	-0.0000	mg/L	0.00134	-0.0000	mg/L	0.00134	>999.9%
Se 196.026†	4.4	0.0015	mg/L	0.00262	0.0015	mg/L	0.00262	173.70%
Sn 189.927†	-88.3	-0.0148	mg/L	0.00079	-0.0148	mg/L	0.00079	5.33%
Ti 337.279†	10.1	0.0005	mg/L	0.00036	0.0005	mg/L	0.00036	69.02%
Tl 351.924†	6.9	0.0008	mg/L	0.00387	0.0008	mg/L	0.00387	471.34%
V 290.880†	156.9	0.0010	mg/L	0.00093	0.0010	mg/L	0.00093	96.79%
Zn 206.200†	297.2	0.0052	mg/L	0.00004	0.0052	mg/L	0.00004	0.77%
Zr 343.823†	75.7	0.0002	mg/L	0.00007	0.0002	mg/L	0.00007	32.16%

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Sequence No.: 28
Sample ID: 24E1964-07
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 51
Date Collected: 5/22/2024 6:05:11 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: 24E1964-07

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	3954553.6	94.76	%	0.665				0.70%
Y radial	198299.2	96.06	%	1.530				1.59%
Ag 328.068†	523.0	0.0020	mg/L	0.00021	0.0020	mg/L	0.00021	10.59%
Al 396.153†	253.0	0.0661	mg/L	0.00207	0.0661	mg/L	0.00207	3.13%
As 188.979†	-1.0	0.0003	mg/L	0.00216	0.0003	mg/L	0.00216	712.42%
B 208.889†	157.1	0.0109	mg/L	0.00026	0.0109	mg/L	0.00026	2.35%
Ba 233.527†	10805.3	0.0884	mg/L	0.00037	0.0884	mg/L	0.00037	0.42%
Be 313.107†	-47.1	-0.0001	mg/L	0.00001	-0.0001	mg/L	0.00001	6.05%
Ca 317.933†	49311.0	7.033	mg/L	0.0083	7.033	mg/L	0.0083	0.12%
Cd 228.802†	7.1	0.0001	mg/L	0.00011	0.0001	mg/L	0.00011	75.06%
Co 228.616†	428.9	0.0059	mg/L	0.00012	0.0059	mg/L	0.00012	1.99%
Cr 267.716†	19.3	-0.0003	mg/L	0.00011	-0.0003	mg/L	0.00011	33.99%
Cu 327.393†	1126.6	0.0078	mg/L	0.00012	0.0078	mg/L	0.00012	1.56%
Fe 238.204†	5016.6	1.987	mg/L	0.0329	1.987	mg/L	0.0329	1.65%
K 766.490†	9354.4	3.004	mg/L	0.0510	3.004	mg/L	0.0510	1.70%
Mg 285.213†	14499.0	1.505	mg/L	0.0227	1.505	mg/L	0.0227	1.51%
Mn 257.610†	35375.4	1.242	mg/L	0.0210	1.242	mg/L	0.0210	1.69%
Mo 202.031†	60.7	0.0032	mg/L	0.00007	0.0032	mg/L	0.00007	2.31%
Na 589.592†	625222.8	74.87	mg/L	0.137	74.87	mg/L	0.137	0.18%
Ni 231.604†	209.1	0.0074	mg/L	0.00058	0.0074	mg/L	0.00058	7.89%
Pb 220.353†	5.9	0.0005	mg/L	0.00077	0.0005	mg/L	0.00077	155.47%
Sb 206.836†	1.4	0.0003	mg/L	0.00172	0.0003	mg/L	0.00172	496.00%
Se 196.026†	2.0	0.0002	mg/L	0.00448	0.0002	mg/L	0.00448	>999.9%
Sn 189.927†	-63.0	-0.0106	mg/L	0.00133	-0.0106	mg/L	0.00133	12.61%
Ti 337.279†	63.6	0.0033	mg/L	0.00033	0.0033	mg/L	0.00033	9.95%
Tl 351.924†	-35.0	-0.0023	mg/L	0.00378	-0.0023	mg/L	0.00378	163.12%

V 290.880†	731.7	0.0044 mg/L	0.00045	0.0044 mg/L	0.00045	10.09%
Zn 206.200†	1065.4	0.0169 mg/L	0.00011	0.0169 mg/L	0.00011	0.62%
Zr 343.823†	101.3	0.0003 mg/L	0.00005	0.0003 mg/L	0.00005	18.83%

Sequence No.: 29 **Autosampler Location: 52**
Sample ID: 24E1964-08 **Date Collected: 5/22/2024 6:10:43 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 110 **Auto Dilution Factor: 1**

Mean Data: 24E1964-08

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	3977862.1	95.32	%	0.431				0.45%
Y radial	195558.7	94.73	%	1.197				1.26%
Ag 328.068†	544.7	0.0019	mg/L	0.00046	0.0019	mg/L	0.00046	24.66%
Al 396.153†	48.5	0.0127	mg/L	0.00199	0.0127	mg/L	0.00199	15.72%
As 188.979†	-12.0	-0.0043	mg/L	0.00067	-0.0043	mg/L	0.00067	15.67%
B 208.889†	164.4	0.0115	mg/L	0.00032	0.0115	mg/L	0.00032	2.75%
Ba 233.527†	2802.4	0.0229	mg/L	0.00012	0.0229	mg/L	0.00012	0.51%
Be 313.107†	-46.8	-0.0001	mg/L	0.00005	-0.0001	mg/L	0.00005	41.00%
Ca 317.933†	238863.4	34.07	mg/L	0.122	34.07	mg/L	0.122	0.36%
Cd 228.802†	6.1	0.0002	mg/L	0.00012	0.0002	mg/L	0.00012	55.92%
Co 228.616†	412.9	0.0056	mg/L	0.00008	0.0056	mg/L	0.00008	1.45%
Cr 267.716†	72.3	-0.0001	mg/L	0.00004	-0.0001	mg/L	0.00004	35.24%
Cu 327.393†	666.7	0.0046	mg/L	0.00007	0.0046	mg/L	0.00007	1.57%
Fe 238.204†	2031.8	0.8049	mg/L	0.01087	0.8049	mg/L	0.01087	1.35%
K 766.490†	9242.5	2.968	mg/L	0.0460	2.968	mg/L	0.0460	1.55%
Mg 285.213†	100748.6	10.45	mg/L	0.016	10.45	mg/L	0.016	0.15%
Mn 257.610†	58994.1	2.072	mg/L	0.0081	2.072	mg/L	0.0081	0.39%
Mo 202.031†	18.4	0.0010	mg/L	0.00019	0.0010	mg/L	0.00019	19.40%
Na 589.592†	22410.6	2.684	mg/L	0.0057	2.684	mg/L	0.0057	0.21%
Ni 231.604†	0.3	0.0000	mg/L	0.00019	0.0000	mg/L	0.00019	>999.9%
Pb 220.353†	20.1	0.0021	mg/L	0.00108	0.0021	mg/L	0.00108	52.44%
Sb 206.836†	6.1	0.0012	mg/L	0.00168	0.0012	mg/L	0.00168	142.83%
Se 196.026†	8.6	0.0004	mg/L	0.00137	0.0004	mg/L	0.00137	317.82%
Sn 189.927†	-205.5	-0.0345	mg/L	0.00081	-0.0345	mg/L	0.00081	2.34%
Ti 337.279†	20.8	0.0011	mg/L	0.00022	0.0011	mg/L	0.00022	20.00%
Tl 351.924†	-27.6	-0.0023	mg/L	0.00396	-0.0023	mg/L	0.00396	170.85%
V 290.880†	382.6	0.0023	mg/L	0.00025	0.0023	mg/L	0.00025	10.55%
Zn 206.200†	1214.5	0.0265	mg/L	0.00013	0.0265	mg/L	0.00013	0.49%
Zr 343.823†	179.2	0.0005	mg/L	0.00017	0.0005	mg/L	0.00017	32.60%

Sequence No.: 30 **Autosampler Location: 7**
Sample ID: RINSE **Date Collected: 5/22/2024 6:16:14 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 110 **Auto Dilution Factor: 1**

Mean Data: RINSE

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	4011563.4	96.12	%	0.765				0.80%
Y radial	190860.1	92.46	%	0.666				0.72%
Ag 328.068†	475.1	0.0020	mg/L	0.00027	0.0020	mg/L	0.00027	13.34%
Al 396.153†	41.8	0.0109	mg/L	0.00041	0.0109	mg/L	0.00041	3.75%
As 188.979†	2.0	0.0009	mg/L	0.00048	0.0009	mg/L	0.00048	55.25%
B 208.889†	-4.6	-0.0003	mg/L	0.00017	-0.0003	mg/L	0.00017	50.45%
Ba 233.527†	16.4	0.0001	mg/L	0.00003	0.0001	mg/L	0.00003	19.55%
Be 313.107†	-71.3	-0.0002	mg/L	0.00004	-0.0002	mg/L	0.00004	23.08%
Ca 317.933†	64.3	0.0092	mg/L	0.00125	0.0092	mg/L	0.00125	13.66%
Cd 228.802†	10.9	0.0001	mg/L	0.00006	0.0001	mg/L	0.00006	63.14%
Co 228.616†	-109.4	-0.0015	mg/L	0.00005	-0.0015	mg/L	0.00005	3.12%
Cr 267.716†	-74.6	-0.0008	mg/L	0.00007	-0.0008	mg/L	0.00007	8.71%

Cu 327.393†	270.4	0.0019 mg/L	0.00034	0.0019 mg/L	0.00034	18.09%
Fe 238.204†	-73.3	-0.0290 mg/L	0.00061	-0.0290 mg/L	0.00061	2.10%
K 766.490†	32.4	0.0104 mg/L	0.02480	0.0104 mg/L	0.02480	238.06%
Mg 285.213†	34.3	0.0035 mg/L	0.00962	0.0035 mg/L	0.00962	272.47%
Mn 257.610†	3.9	0.0001 mg/L	0.00010	0.0001 mg/L	0.00010	71.96%
Mo 202.031†	3.2	0.0002 mg/L	0.00020	0.0002 mg/L	0.00020	115.65%
Na 589.592†	133.9	0.0160 mg/L	0.00463	0.0160 mg/L	0.00463	28.86%
Ni 231.604†	-150.8	-0.0053 mg/L	0.00014	-0.0053 mg/L	0.00014	2.73%
Pb 220.353†	-3.2	-0.0004 mg/L	0.00026	-0.0004 mg/L	0.00026	70.66%
Sb 206.836†	-4.8	-0.0010 mg/L	0.00080	-0.0010 mg/L	0.00080	78.31%
Se 196.026†	-0.7	-0.0006 mg/L	0.00174	-0.0006 mg/L	0.00174	314.33%
Sn 189.927†	4.1	0.0007 mg/L	0.00089	0.0007 mg/L	0.00089	130.96%
Ti 337.279†	7.0	0.0004 mg/L	0.00005	0.0004 mg/L	0.00005	12.69%
Tl 351.924†	-6.3	-0.0007 mg/L	0.00605	-0.0007 mg/L	0.00605	919.68%
V 290.880†	-255.5	-0.0016 mg/L	0.00060	-0.0016 mg/L	0.00060	37.86%
Zn 206.200†	-22.9	-0.0005 mg/L	0.00008	-0.0005 mg/L	0.00008	15.24%
Zr 343.823†	-5.0	-0.0000 mg/L	0.00018	-0.0000 mg/L	0.00018	>999.9%

Sequence No.: 31
Sample ID: B374918-BLK1
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 53
Date Collected: 5/22/2024 6:21:44 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: B374918-BLK1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y axial	3949220.5	94.63	%	0.732				0.77%
Y radial	190852.0	92.45	%	1.625				1.76%
Ag 328.068†	456.1	0.0020	mg/L	0.00033	0.0020	mg/L	0.00033	16.54%
Al 396.153†	23.2	0.0061	mg/L	0.00337	0.0061	mg/L	0.00337	55.58%
As 188.979†	1.6	0.0007	mg/L	0.00167	0.0007	mg/L	0.00167	234.91%
B 208.889†	-3.9	-0.0003	mg/L	0.00025	-0.0003	mg/L	0.00025	92.70%
Ba 233.527†	71.1	0.0006	mg/L	0.00002	0.0006	mg/L	0.00002	3.29%
Be 313.107†	-89.1	-0.0002	mg/L	0.00002	-0.0002	mg/L	0.00002	8.59%
Ca 317.933†	132.9	0.0190	mg/L	0.00303	0.0190	mg/L	0.00303	15.97%
Cd 228.802†	5.6	0.0000	mg/L	0.00004	0.0000	mg/L	0.00004	82.43%
Co 228.616†	-63.8	-0.0009	mg/L	0.00009	-0.0009	mg/L	0.00009	10.13%
Cr 267.716†	-91.3	-0.0010	mg/L	0.00013	-0.0010	mg/L	0.00013	12.96%
Cu 327.393†	342.4	0.0024	mg/L	0.00037	0.0024	mg/L	0.00037	15.66%
Fe 238.204†	-29.4	-0.0116	mg/L	0.00103	-0.0116	mg/L	0.00103	8.84%
K 766.490†	79.6	0.0256	mg/L	0.00919	0.0256	mg/L	0.00919	35.95%
Mg 285.213†	-27.4	-0.0029	mg/L	0.00106	-0.0029	mg/L	0.00106	37.18%
Mn 257.610†	26.9	0.0009	mg/L	0.00028	0.0009	mg/L	0.00028	30.22%
Mo 202.031†	0.5	0.0000	mg/L	0.00008	0.0000	mg/L	0.00008	263.55%
Na 589.592†	449.5	0.0538	mg/L	0.00641	0.0538	mg/L	0.00641	11.91%
Ni 231.604†	-96.5	-0.0034	mg/L	0.00009	-0.0034	mg/L	0.00009	2.74%
Pb 220.353†	-9.5	-0.0011	mg/L	0.00021	-0.0011	mg/L	0.00021	19.29%
Sb 206.836†	-3.5	-0.0007	mg/L	0.00094	-0.0007	mg/L	0.00094	127.46%
Se 196.026†	-1.9	-0.0015	mg/L	0.00062	-0.0015	mg/L	0.00062	42.50%
Sn 189.927†	6.2	0.0010	mg/L	0.00064	0.0010	mg/L	0.00064	61.09%
Ti 337.279†	5.3	0.0003	mg/L	0.00051	0.0003	mg/L	0.00051	186.28%
Tl 351.924†	-7.6	-0.0008	mg/L	0.00393	-0.0008	mg/L	0.00393	502.36%
V 290.880†	42.3	0.0003	mg/L	0.00041	0.0003	mg/L	0.00041	155.78%
Zn 206.200†	95.1	0.0021	mg/L	0.00030	0.0021	mg/L	0.00030	14.49%
Zr 343.823†	-30.0	-0.0001	mg/L	0.00015	-0.0001	mg/L	0.00015	165.69%

Sequence No.: 32
Sample ID: B374918-BS1
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 54
Date Collected: 5/22/2024 6:27:16 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: B374918-BS1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	4018702.4	96.29	%	1.217				1.26%
Y radial	194167.8	94.06	%	1.332				1.42%
Ag 328.068†	123365.8	0.5359	mg/L	0.00563	0.5359	mg/L	0.00563	1.05%
Al 396.153†	2055.4	0.5170	mg/L	0.00340	0.5170	mg/L	0.00340	0.66%
As 188.979†	1094.2	0.4771	mg/L	0.00648	0.4771	mg/L	0.00648	1.36%
B 208.889†	13950.3	0.9561	mg/L	0.00716	0.9561	mg/L	0.00716	0.75%
Ba 233.527†	63709.9	0.5232	mg/L	0.00569	0.5232	mg/L	0.00569	1.09%
Be 313.107†	213190.5	0.5245	mg/L	0.01005	0.5245	mg/L	0.01005	1.92%
Ca 317.933†	29083.1	4.148	mg/L	0.0166	4.148	mg/L	0.0166	0.40%
Cd 228.802†	43904.4	0.5158	mg/L	0.00600	0.5158	mg/L	0.00600	1.16%
Co 228.616†	37786.8	0.5152	mg/L	0.00621	0.5152	mg/L	0.00621	1.21%
Cr 267.716†	47486.6	0.5119	mg/L	0.00563	0.5119	mg/L	0.00563	1.10%
Cu 327.393†	142120.9	0.9880	mg/L	0.00800	0.9880	mg/L	0.00800	0.81%
Fe 238.204†	10164.1	4.029	mg/L	0.0070	4.029	mg/L	0.0070	0.17%
K 766.490†	12845.0	4.125	mg/L	0.0244	4.125	mg/L	0.0244	0.59%
Mg 285.213†	39462.1	4.100	mg/L	0.0049	4.100	mg/L	0.0049	0.12%
Mn 257.610†	14332.6	0.5036	mg/L	0.00045	0.5036	mg/L	0.00045	0.09%
Mo 202.031†	9642.9	0.5117	mg/L	0.00533	0.5117	mg/L	0.00533	1.04%
Na 589.592†	34609.6	4.144	mg/L	0.0073	4.144	mg/L	0.0073	0.18%
Ni 231.604†	14506.4	0.5097	mg/L	0.00490	0.5097	mg/L	0.00490	0.96%
Pb 220.353†	4407.0	0.5069	mg/L	0.00602	0.5069	mg/L	0.00602	1.19%
Sb 206.836†	2293.6	0.4956	mg/L	0.00759	0.4956	mg/L	0.00759	1.53%
Se 196.026†	664.9	0.5061	mg/L	0.00960	0.5061	mg/L	0.00960	1.90%
Sn 189.927†	3002.2	0.5039	mg/L	0.00662	0.5039	mg/L	0.00662	1.31%
Ti 337.279†	9987.6	0.5157	mg/L	0.00154	0.5157	mg/L	0.00154	0.30%
Tl 351.924†	4655.4	0.4747	mg/L	0.00536	0.4747	mg/L	0.00536	1.13%
V 290.880†	83375.5	0.5213	mg/L	0.00659	0.5213	mg/L	0.00659	1.26%
Zn 206.200†	47722.4	1.052	mg/L	0.0141	1.052	mg/L	0.0141	1.35%
Zr 343.823†	773.6	0.0022	mg/L	0.00040	0.0022	mg/L	0.00040	18.15%

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Sequence No.: 33
Sample ID: B374918-BSD1
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 55
Date Collected: 5/22/2024 6:31:53 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: B374918-BSD1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	3951602.8	94.69	%	0.819				0.86%
Y radial	193646.9	93.81	%	0.577				0.62%
Ag 328.068†	126781.6	0.5508	mg/L	0.00770	0.5508	mg/L	0.00770	1.40%
Al 396.153†	2042.4	0.5132	mg/L	0.01014	0.5132	mg/L	0.01014	1.98%
As 188.979†	1104.7	0.4815	mg/L	0.00482	0.4815	mg/L	0.00482	1.00%
B 208.889†	14548.4	0.9976	mg/L	0.01842	0.9976	mg/L	0.01842	1.85%
Ba 233.527†	65453.2	0.5376	mg/L	0.00680	0.5376	mg/L	0.00680	1.27%
Be 313.107†	213321.9	0.5248	mg/L	0.00789	0.5248	mg/L	0.00789	1.50%
Ca 317.933†	29048.2	4.143	mg/L	0.0122	4.143	mg/L	0.0122	0.30%
Cd 228.802†	45177.1	0.5310	mg/L	0.00625	0.5310	mg/L	0.00625	1.18%
Co 228.616†	38799.6	0.5291	mg/L	0.00671	0.5291	mg/L	0.00671	1.27%
Cr 267.716†	48768.1	0.5257	mg/L	0.00699	0.5257	mg/L	0.00699	1.33%
Cu 327.393†	147346.6	1.024	mg/L	0.0189	1.024	mg/L	0.0189	1.85%
Fe 238.204†	10195.0	4.041	mg/L	0.0198	4.041	mg/L	0.0198	0.49%
K 766.490†	12593.6	4.045	mg/L	0.0153	4.045	mg/L	0.0153	0.38%
Mg 285.213†	39829.4	4.138	mg/L	0.0049	4.138	mg/L	0.0049	0.12%
Mn 257.610†	14495.8	0.5094	mg/L	0.00174	0.5094	mg/L	0.00174	0.34%
Mo 202.031†	9839.7	0.5222	mg/L	0.00601	0.5222	mg/L	0.00601	1.15%
Na 589.592†	33797.7	4.047	mg/L	0.0141	4.047	mg/L	0.0141	0.35%
Ni 231.604†	14934.4	0.5247	mg/L	0.00824	0.5247	mg/L	0.00824	1.57%
Pb 220.353†	4461.6	0.5131	mg/L	0.00665	0.5131	mg/L	0.00665	1.30%
Sb 206.836†	2324.1	0.5020	mg/L	0.00589	0.5020	mg/L	0.00589	1.17%
Se 196.026†	679.2	0.5170	mg/L	0.00750	0.5170	mg/L	0.00750	1.45%
Sn 189.927†	3040.6	0.5103	mg/L	0.00467	0.5103	mg/L	0.00467	0.92%
Ti 337.279†	9993.7	0.5160	mg/L	0.00241	0.5160	mg/L	0.00241	0.47%
Tl 351.924†	4794.1	0.4889	mg/L	0.00585	0.4889	mg/L	0.00585	1.20%

V 290.880†	85866.8	0.5369	mg/L	0.00805	0.5369	mg/L	0.00805	1.50%
Zn 206.200†	49285.4	1.086	mg/L	0.0122	1.086	mg/L	0.0122	1.12%
Zr 343.823†	404.7	0.0011	mg/L	0.00013	0.0011	mg/L	0.00013	11.91%

Sequence No.: 34 **Autosampler Location: 56**
Sample ID: B374918-MS1 **Date Collected: 5/22/2024 6:36:31 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 110 **Auto Dilution Factor: 1**

Mean Data: B374918-MS1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	3821205.6	91.56	%	0.160				0.17%
Y radial	193156.9	93.57	%	1.884				2.01%
Ag 328.068†	126479.6	0.5495	mg/L	0.00730	0.5495	mg/L	0.00730	1.33%
Al 396.153†	2151.8	0.5419	mg/L	0.00704	0.5419	mg/L	0.00704	1.30%
As 188.979†	1143.9	0.4996	mg/L	0.00372	0.4996	mg/L	0.00372	0.74%
B 208.889†	15058.6	1.034	mg/L	0.0076	1.034	mg/L	0.0076	0.73%
Ba 233.527†	68640.0	0.5635	mg/L	0.00545	0.5635	mg/L	0.00545	0.97%
Be 313.107†	213280.5	0.5247	mg/L	0.00738	0.5247	mg/L	0.00738	1.41%
Ca 317.933†	171632.3	24.48	mg/L	0.342	24.48	mg/L	0.342	1.40%
Cd 228.802†	45557.9	0.5351	mg/L	0.00543	0.5351	mg/L	0.00543	1.01%
Co 228.616†	37631.6	0.5131	mg/L	0.00475	0.5131	mg/L	0.00475	0.93%
Cr 267.716†	48416.0	0.5219	mg/L	0.00528	0.5219	mg/L	0.00528	1.01%
Cu 327.393†	157560.8	1.095	mg/L	0.0199	1.095	mg/L	0.0199	1.82%
Fe 238.204†	14084.2	5.582	mg/L	0.0459	5.582	mg/L	0.0459	0.82%
K 766.490†	21392.9	6.871	mg/L	0.0393	6.871	mg/L	0.0393	0.57%
Mg 285.213†	78922.3	8.193	mg/L	0.0465	8.193	mg/L	0.0465	0.57%
Mn 257.610†	14655.0	0.5151	mg/L	0.00213	0.5151	mg/L	0.00213	0.41%
Mo 202.031†	9843.8	0.5224	mg/L	0.00253	0.5224	mg/L	0.00253	0.48%
Na 589.592†	1987477.1	238.0	mg/L	3.32	238.0	mg/L	3.32	1.39%
Ni 231.604†	14412.3	0.5064	mg/L	0.00180	0.5064	mg/L	0.00180	0.36%
Pb 220.353†	4429.4	0.5092	mg/L	0.00074	0.5092	mg/L	0.00074	0.15%
Sb 206.836†	2383.2	0.5149	mg/L	0.00285	0.5149	mg/L	0.00285	0.55%
Se 196.026†	697.8	0.5283	mg/L	0.00350	0.5283	mg/L	0.00350	0.66%
Sn 189.927†	2866.6	0.4811	mg/L	0.00274	0.4811	mg/L	0.00274	0.57%
Ti 337.279†	10153.6	0.5242	mg/L	0.00235	0.5242	mg/L	0.00235	0.45%
Tl 351.924†	5148.8	0.5261	mg/L	0.00490	0.5261	mg/L	0.00490	0.93%
V 290.880†	86076.2	0.5381	mg/L	0.00549	0.5381	mg/L	0.00549	1.02%
Zn 206.200†	50644.6	1.096	mg/L	0.0056	1.096	mg/L	0.0056	0.51%
Zr 343.823†	417.4	0.0011	mg/L	0.00005	0.0011	mg/L	0.00005	4.86%

Sequence No.: 35 **Autosampler Location: 57**
Sample ID: B374918-PS1 **Date Collected: 5/22/2024 6:41:09 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 110 **Auto Dilution Factor: 1**

Mean Data: B374918-PS1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	3754471.1	89.96	%	0.342				0.38%
Y radial	188661.3	91.39	%	1.481				1.62%
Ag 328.068†	452166.8	1.965	mg/L	0.0072	1.965	mg/L	0.0072	0.37%
Al 396.153†	8054.4	2.026	mg/L	0.0067	2.026	mg/L	0.0067	0.33%
As 188.979†	4411.1	1.924	mg/L	0.0034	1.924	mg/L	0.0034	0.18%
B 208.889†	55775.4	3.825	mg/L	0.0242	3.825	mg/L	0.0242	0.63%
Ba 233.527†	250858.6	2.060	mg/L	0.0032	2.060	mg/L	0.0032	0.16%
Be 313.107†	839535.1	2.066	mg/L	0.0327	2.066	mg/L	0.0327	1.58%
Ca 317.933†	254427.6	36.29	mg/L	0.122	36.29	mg/L	0.122	0.34%
Cd 228.802†	174115.7	2.044	mg/L	0.0036	2.044	mg/L	0.0036	0.18%
Co 228.616†	143558.0	1.958	mg/L	0.0035	1.958	mg/L	0.0035	0.18%
Cr 267.716†	185598.7	2.001	mg/L	0.0031	2.001	mg/L	0.0031	0.15%

Cu 327.393†	590158.8	4.103 mg/L	0.0158	4.103 mg/L	0.0158	0.39%
Fe 238.204†	43131.2	17.10 mg/L	0.054	17.10 mg/L	0.054	0.31%
K 766.490†	58775.1	18.88 mg/L	0.074	18.88 mg/L	0.074	0.39%
Mg 285.213†	190575.2	19.79 mg/L	0.073	19.79 mg/L	0.073	0.37%
Mn 257.610†	55293.7	1.943 mg/L	0.0053	1.943 mg/L	0.0053	0.28%
Mo 202.031†	37748.8	2.003 mg/L	0.0047	2.003 mg/L	0.0047	0.24%
Na 589.592†	2158715.2	258.5 mg/L	3.96	258.5 mg/L	3.96	1.53%
Ni 231.604†	55087.1	1.935 mg/L	0.0009	1.935 mg/L	0.0009	0.05%
Pb 220.353†	16740.2	1.925 mg/L	0.0063	1.925 mg/L	0.0063	0.33%
Sb 206.836†	9140.7	1.975 mg/L	0.0020	1.975 mg/L	0.0020	0.10%
Se 196.026†	2662.6	2.024 mg/L	0.0065	2.024 mg/L	0.0065	0.32%
Sn 189.927†	11517.4	1.933 mg/L	0.0061	1.933 mg/L	0.0061	0.32%
Ti 337.279†	38892.2	2.008 mg/L	0.0045	2.008 mg/L	0.0045	0.23%
Tl 351.924†	19469.5	1.987 mg/L	0.0022	1.987 mg/L	0.0022	0.11%
V 290.880†	329020.3	2.057 mg/L	0.0051	2.057 mg/L	0.0051	0.25%
Zn 206.200†	188646.7	4.137 mg/L	0.0092	4.137 mg/L	0.0092	0.22%
Zr 343.823†	896.0	0.0022 mg/L	0.00040	0.0022 mg/L	0.00040	17.85%

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Sequence No.: 36
Sample ID: SEQ-CCV@ 23J0975
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 5
Date Collected: 5/22/2024 6:45:45 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y axial	3912849.6	93.76	%	0.730				0.78%
Y radial	196487.7	95.18	%	0.325				0.34%
Ag 328.068†	576563.1	2.474	mg/L	0.0224	2.474	mg/L	0.0224	0.91%
QC value within limits for Ag 328.068 Recovery = 98.98%								
Al 396.153†	38821.1	9.880	mg/L	0.0294	9.880	mg/L	0.0294	0.30%
QC value within limits for Al 396.153 Recovery = 98.80%								
As 188.979†	11272.1	4.904	mg/L	0.0459	4.904	mg/L	0.0459	0.94%
QC value within limits for As 188.979 Recovery = 98.08%								
B 208.889†	71287.1	4.764	mg/L	0.0122	4.764	mg/L	0.0122	0.26%
QC value within limits for B 208.889 Recovery = 95.28%								
Ba 233.527†	625125.0	5.139	mg/L	0.0163	5.139	mg/L	0.0163	0.32%
QC value within limits for Ba 233.527 Recovery = 102.78%								
Be 313.107†	2015762.1	4.959	mg/L	0.0181	4.959	mg/L	0.0181	0.37%
QC value within limits for Be 313.107 Recovery = 99.17%								
Ca 317.933†	70795.7	10.10	mg/L	0.020	10.10	mg/L	0.020	0.19%
QC value within limits for Ca 317.933 Recovery = 100.97%								
Cd 228.802†	434364.8	5.098	mg/L	0.0226	5.098	mg/L	0.0226	0.44%
QC value within limits for Cd 228.802 Recovery = 101.97%								
Co 228.616†	374870.7	5.112	mg/L	0.0147	5.112	mg/L	0.0147	0.29%
QC value within limits for Co 228.616 Recovery = 102.24%								
Cr 267.716†	471536.8	5.084	mg/L	0.0105	5.084	mg/L	0.0105	0.21%
QC value within limits for Cr 267.716 Recovery = 101.68%								
Cu 327.393†	698780.7	4.876	mg/L	0.0057	4.876	mg/L	0.0057	0.12%
QC value within limits for Cu 327.393 Recovery = 97.51%								
Fe 238.204†	12517.1	4.985	mg/L	0.0163	4.985	mg/L	0.0163	0.33%
QC value within limits for Fe 238.204 Recovery = 99.71%								
K 766.490†	30902.9	9.925	mg/L	0.0518	9.925	mg/L	0.0518	0.52%
QC value within limits for K 766.490 Recovery = 99.25%								
Mg 285.213†	96745.2	10.02	mg/L	0.023	10.02	mg/L	0.023	0.23%
QC value within limits for Mg 285.213 Recovery = 100.22%								
Mn 257.610†	140779.2	4.944	mg/L	0.0059	4.944	mg/L	0.0059	0.12%
QC value within limits for Mn 257.610 Recovery = 98.88%								
Mo 202.031†	94904.1	5.036	mg/L	0.0054	5.036	mg/L	0.0054	0.11%
QC value within limits for Mo 202.031 Recovery = 100.73%								
Na 589.592†	84507.0	10.12	mg/L	0.037	10.12	mg/L	0.037	0.37%
QC value within limits for Na 589.592 Recovery = 101.19%								
Ni 231.604†	144369.0	5.074	mg/L	0.0108	5.074	mg/L	0.0108	0.21%
QC value within limits for Ni 231.604 Recovery = 101.49%								
Pb 220.353†	43869.3	5.058	mg/L	0.0463	5.058	mg/L	0.0463	0.92%
QC value within limits for Pb 220.353 Recovery = 101.16%								

Sb 206.836†	22541.3	4.871 mg/L	0.0417	4.871 mg/L	0.0417	0.86%
QC value within limits for Sb 206.836 Recovery = 97.42%						
Se 196.026†	6540.0	4.987 mg/L	0.0413	4.987 mg/L	0.0413	0.83%
QC value within limits for Se 196.026 Recovery = 99.75%						
Sn 189.927†	30018.6	5.033 mg/L	0.0405	5.033 mg/L	0.0405	0.80%
QC value within limits for Sn 189.927 Recovery = 100.67%						
Ti 337.279†	95302.4	4.918 mg/L	0.0198	4.918 mg/L	0.0198	0.40%
QC value within limits for Ti 337.279 Recovery = 98.36%						
Tl 351.924†	24139.3	2.427 mg/L	0.0224	2.427 mg/L	0.0224	0.92%
QC value within limits for Tl 351.924 Recovery = 97.07%						
V 290.880†	828115.3	5.181 mg/L	0.0201	5.181 mg/L	0.0201	0.39%
QC value within limits for V 290.880 Recovery = 103.61%						
Zn 206.200†	234673.7	5.195 mg/L	0.0046	5.195 mg/L	0.0046	0.09%
QC value within limits for Zn 206.200 Recovery = 103.89%						
Zr 343.823†	1674068.9	4.955 mg/L	0.0155	4.955 mg/L	0.0155	0.31%

All analyte(s) passed QC.

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Sequence No.: 37 **Autosampler Location: 1**
Sample ID: SEQ-CCB@ 23J0970 **Date Collected: 5/22/2024 6:52:22 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 230 **Auto Dilution Factor: 1**

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y axial	3959427.9	94.87	%	1.102				1.16%
Y radial	192947.8	93.47	%	1.125				1.20%
Ag 328.068†	538.5	0.0023	mg/L	0.00032	0.0023	mg/L	0.00032	13.96%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	41.7	0.0108	mg/L	0.01007	0.0108	mg/L	0.01007	93.08%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	-0.7	-0.0003	mg/L	0.00142	-0.0003	mg/L	0.00142	437.21%
QC value within limits for As 188.979 Recovery = Not calculated								
B 208.889†	238.7	0.0167	mg/L	0.00168	0.0167	mg/L	0.00168	10.06%
QC value within limits for B 208.889 Recovery = Not calculated								
Ba 233.527†	29.9	0.0002	mg/L	0.00000	0.0002	mg/L	0.00000	1.06%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	98.4	0.0002	mg/L	0.00005	0.0002	mg/L	0.00005	19.43%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	25.3	0.0036	mg/L	0.00138	0.0036	mg/L	0.00138	38.28%
QC value within limits for Ca 317.933 Recovery = Not calculated								
Cd 228.802†	39.8	0.0005	mg/L	0.00005	0.0005	mg/L	0.00005	11.24%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	-56.5	-0.0008	mg/L	0.00012	-0.0008	mg/L	0.00012	15.06%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-95.3	-0.0010	mg/L	0.00014	-0.0010	mg/L	0.00014	13.61%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	2493.8	0.0173	mg/L	0.00079	0.0173	mg/L	0.00079	4.55%
QC value greater than the upper limit for Cu 327.393 Recovery = Not calculated								
Fe 238.204†	-67.0	-0.0265	mg/L	0.00092	-0.0265	mg/L	0.00092	3.47%
QC value within limits for Fe 238.204 Recovery = Not calculated								
K 766.490†	70.4	0.0226	mg/L	0.01811	0.0226	mg/L	0.01811	80.13%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213†	-183.4	-0.0191	mg/L	0.00061	-0.0191	mg/L	0.00061	3.18%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610†	-43.1	-0.0015	mg/L	0.00009	-0.0015	mg/L	0.00009	5.66%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	32.9	0.0017	mg/L	0.00040	0.0017	mg/L	0.00040	23.08%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592†	128.5	0.0154	mg/L	0.00279	0.0154	mg/L	0.00279	18.13%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604†	-110.9	-0.0039	mg/L	0.00013	-0.0039	mg/L	0.00013	3.39%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-5.7	-0.0007	mg/L	0.00042	-0.0007	mg/L	0.00042	60.69%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	1.2	0.0003	mg/L	0.00083	0.0003	mg/L	0.00083	285.33%

QC value within limits for Sb 206.836 Recovery = Not calculated

Se 196.026†	-0.4	-0.0003	mg/L	0.00138	-0.0003	mg/L	0.00138 528.71%

QC value within limits for Se 196.026 Recovery = Not calculated

Sn 189.927†	6.7	0.0011	mg/L	0.00126	0.0011	mg/L	0.00126 111.01%

QC value within limits for Sn 189.927 Recovery = Not calculated

Ti 337.279†	14.4	0.0007	mg/L	0.00020	0.0007	mg/L	0.00020 27.57%

QC value within limits for Ti 337.279 Recovery = Not calculated

Tl 351.924†	-4.8	-0.0005	mg/L	0.00640	-0.0005	mg/L	0.00640 >999.9%

QC value within limits for Tl 351.924 Recovery = Not calculated

V 290.880†	-19.1	-0.0001	mg/L	0.00042	-0.0001	mg/L	0.00042 354.67%

QC value within limits for V 290.880 Recovery = Not calculated

Zn 206.200†	180.8	0.0040	mg/L	0.00025	0.0040	mg/L	0.00025 6.34%

QC value within limits for Zn 206.200 Recovery = Not calculated

Zr 343.823†	41.4	0.0001	mg/L	0.00008	0.0001	mg/L	0.00008 67.81%

QC Failed. Continue with analysis.

Sequence No.: 38 **Autosampler Location: 58**
Sample ID: B374918-SRL1 **Date Collected: 5/22/2024 6:57:52 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 110 **Auto Dilution Factor: 1**

Mean Data: B374918-SRL1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	3966819.0	95.05	%	0.366				0.38%
Y radial	196473.5	95.18	%	1.467				1.54%
Ag 328.068†	464.3	0.0020	mg/L	0.00023	0.0020	mg/L	0.00023	11.20%
Al 396.153†	29.9	0.0078	mg/L	0.00101	0.0078	mg/L	0.00101	13.04%
As 188.979†	-2.2	-0.0008	mg/L	0.00177	-0.0008	mg/L	0.00177	224.55%
B 208.889†	196.4	0.0138	mg/L	0.00045	0.0138	mg/L	0.00045	3.26%
Ba 233.527†	867.7	0.0071	mg/L	0.00005	0.0071	mg/L	0.00005	0.72%
Be 313.107†	-3.6	-0.0000	mg/L	0.00006	-0.0000	mg/L	0.00006	544.90%
Ca 317.933†	29075.9	4.147	mg/L	0.0094	4.147	mg/L	0.0094	0.23%
Cd 228.802†	19.7	0.0003	mg/L	0.00008	0.0003	mg/L	0.00008	33.80%
Co 228.616†	-108.1	-0.0015	mg/L	0.00003	-0.0015	mg/L	0.00003	1.92%
Cr 267.716†	-99.5	-0.0011	mg/L	0.00005	-0.0011	mg/L	0.00005	4.69%
Cu 327.393†	1280.1	0.0089	mg/L	0.00013	0.0089	mg/L	0.00013	1.46%
Fe 238.204†	678.2	0.2687	mg/L	0.00586	0.2687	mg/L	0.00586	2.18%
K 766.490†	1679.0	0.5392	mg/L	0.01015	0.5392	mg/L	0.01015	1.88%
Mg 285.213†	7853.0	0.8145	mg/L	0.01549	0.8145	mg/L	0.01549	1.90%
Mn 257.610†	2.9	0.0001	mg/L	0.00004	0.0001	mg/L	0.00004	35.18%
Mo 202.031†	21.4	0.0011	mg/L	0.00011	0.0011	mg/L	0.00011	9.37%
Na 589.592†	394540.4	47.24	mg/L	0.059	47.24	mg/L	0.059	0.12%
Ni 231.604†	-142.2	-0.0050	mg/L	0.00027	-0.0050	mg/L	0.00027	5.34%
Pb 220.353†	0.5	0.0000	mg/L	0.00056	0.0000	mg/L	0.00056	>999.9%
Sb 206.836†	1.4	0.0003	mg/L	0.00079	0.0003	mg/L	0.00079	254.78%
Se 196.026†	0.8	0.0000	mg/L	0.00435	0.0000	mg/L	0.00435	>999.9%
Sn 189.927†	-37.7	-0.0063	mg/L	0.00034	-0.0063	mg/L	0.00034	5.41%
Ti 337.279†	12.1	0.0006	mg/L	0.00059	0.0006	mg/L	0.00059	94.04%
Tl 351.924†	-9.8	-0.0008	mg/L	0.00233	-0.0008	mg/L	0.00233	279.04%
V 290.880†	72.7	0.0004	mg/L	0.00059	0.0004	mg/L	0.00059	136.69%
Zn 206.200†	114.1	-0.0015	mg/L	0.00011	-0.0015	mg/L	0.00011	7.12%
Zr 343.823†	69.6	0.0002	mg/L	0.00010	0.0002	mg/L	0.00010	51.25%

Sequence No.: 39 **Autosampler Location: 59**
Sample ID: B374918-DUP1 **Date Collected: 5/22/2024 7:03:24 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 110 **Auto Dilution Factor: 1**

Mean Data: B374918-DUP1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD

Y axial	3861976.1	92.54	%	0.259			0.28%
Y radial	195031.6	94.48	%	1.231			1.30%
Ag 328.068†	413.5	0.0018	mg/L	0.00023	0.0018	mg/L	0.00023 12.35%
Al 396.153†	78.5	0.0205	mg/L	0.00356	0.0205	mg/L	0.00356 17.34%
As 188.979†	-3.1	-0.0005	mg/L	0.00273	-0.0005	mg/L	0.00273 519.20%
B 208.889†	514.1	0.0361	mg/L	0.00082	0.0361	mg/L	0.00082 2.27%
Ba 233.527†	4172.5	0.0341	mg/L	0.00011	0.0341	mg/L	0.00011 0.33%
Be 313.107†	-75.4	-0.0002	mg/L	0.00001	-0.0002	mg/L	0.00001 6.18%
Ca 317.933†	142866.2	20.38	mg/L	0.054	20.38	mg/L	0.054 0.27%
Cd 228.802†	13.7	0.0002	mg/L	0.00012	0.0002	mg/L	0.00012 59.32%
Co 228.616†	-105.1	-0.0014	mg/L	0.00003	-0.0014	mg/L	0.00003 2.46%
Cr 267.716†	-59.2	-0.0006	mg/L	0.00009	-0.0006	mg/L	0.00009 14.23%
Cu 327.393†	1357.7	0.0094	mg/L	0.00042	0.0094	mg/L	0.00042 4.49%
Fe 238.204†	3672.8	1.455	mg/L	0.0187	1.455	mg/L	0.0187 1.28%
K 766.490†	8540.9	2.743	mg/L	0.0101	2.743	mg/L	0.0101 0.37%
Mg 285.213†	39097.1	4.055	mg/L	0.0140	4.055	mg/L	0.0140 0.34%
Mn 257.610†	208.4	0.0074	mg/L	0.00020	0.0074	mg/L	0.00020 2.74%
Mo 202.031†	30.4	0.0016	mg/L	0.00008	0.0016	mg/L	0.00008 5.25%
Na 589.592†	1966116.7	235.4	mg/L	2.64	235.4	mg/L	2.64 1.12%
Ni 231.604†	-98.0	-0.0034	mg/L	0.00017	-0.0034	mg/L	0.00017 5.06%
Pb 220.353†	18.9	0.0021	mg/L	0.00067	0.0021	mg/L	0.00067 31.67%
Sb 206.836†	5.2	0.0011	mg/L	0.00116	0.0011	mg/L	0.00116 106.59%
Se 196.026†	1.8	-0.0015	mg/L	0.00233	-0.0015	mg/L	0.00233 157.26%
Sn 189.927†	-146.6	-0.0246	mg/L	0.00058	-0.0246	mg/L	0.00058 2.37%
Ti 337.279†	23.7	0.0012	mg/L	0.00040	0.0012	mg/L	0.00040 32.93%
Tl 351.924†	-12.9	-0.0004	mg/L	0.00243	-0.0004	mg/L	0.00243 621.46%
V 290.880†	526.2	0.0032	mg/L	0.00050	0.0032	mg/L	0.00050 15.55%
Zn 206.200†	323.2	-0.0130	mg/L	0.00014	-0.0130	mg/L	0.00014 1.10%
Zr 343.823†	154.4	0.0004	mg/L	0.00013	0.0004	mg/L	0.00013 30.42%

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Sequence No.: 40 **Autosampler Location: 60**
Sample ID: 24E2193-01 **Date Collected: 5/22/2024 7:09:02 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 110 **Auto Dilution Factor: 1**

Mean Data: 24E2193-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	3837166.2	91.94	%	0.657				0.71%
Y radial	194896.5	94.41	%	1.010				1.07%
Ag 328.068†	396.6	0.0018	mg/L	0.00026	0.0018	mg/L	0.00026	14.83%
Al 396.153†	101.0	0.0264	mg/L	0.00218	0.0264	mg/L	0.00218	8.26%
As 188.979†	-8.8	-0.0030	mg/L	0.00086	-0.0030	mg/L	0.00086	28.66%
B 208.889†	494.9	0.0348	mg/L	0.00091	0.0348	mg/L	0.00091	2.61%
Ba 233.527†	4275.6	0.0349	mg/L	0.00027	0.0349	mg/L	0.00027	0.78%
Be 313.107†	-97.3	-0.0003	mg/L	0.00002	-0.0003	mg/L	0.00002	9.02%
Ca 317.933†	146015.8	20.83	mg/L	0.061	20.83	mg/L	0.061	0.29%
Cd 228.802†	14.6	0.0003	mg/L	0.00014	0.0003	mg/L	0.00014	52.13%
Co 228.616†	-110.7	-0.0015	mg/L	0.00003	-0.0015	mg/L	0.00003	2.25%
Cr 267.716†	-71.8	-0.0008	mg/L	0.00013	-0.0008	mg/L	0.00013	16.87%
Cu 327.393†	997.7	0.0069	mg/L	0.00039	0.0069	mg/L	0.00039	5.64%
Fe 238.204†	3677.5	1.457	mg/L	0.0154	1.457	mg/L	0.0154	1.06%
K 766.490†	8757.5	2.813	mg/L	0.0114	2.813	mg/L	0.0114	0.41%
Mg 285.213†	40235.5	4.173	mg/L	0.0091	4.173	mg/L	0.0091	0.22%
Mn 257.610†	217.1	0.0077	mg/L	0.00022	0.0077	mg/L	0.00022	2.80%
Mo 202.031†	21.7	0.0012	mg/L	0.00030	0.0012	mg/L	0.00030	25.64%
Na 589.592†	1982207.4	237.4	mg/L	4.70	237.4	mg/L	4.70	1.98%
Ni 231.604†	-107.8	-0.0038	mg/L	0.00015	-0.0038	mg/L	0.00015	3.99%
Pb 220.353†	21.0	0.0024	mg/L	0.00086	0.0024	mg/L	0.00086	36.42%
Sb 206.836†	10.0	0.0021	mg/L	0.00094	0.0021	mg/L	0.00094	44.02%
Se 196.026†	3.1	-0.0006	mg/L	0.00330	-0.0006	mg/L	0.00330	561.85%
Sn 189.927†	-149.1	-0.0250	mg/L	0.00082	-0.0250	mg/L	0.00082	3.26%
Ti 337.279†	24.1	0.0012	mg/L	0.00028	0.0012	mg/L	0.00028	22.78%
Tl 351.924†	-13.3	-0.0004	mg/L	0.00534	-0.0004	mg/L	0.00534	>999.9%
V 290.880†	359.4	0.0021	mg/L	0.00058	0.0021	mg/L	0.00058	26.88%
Zn 206.200†	281.1	-0.0141	mg/L	0.00055	-0.0141	mg/L	0.00055	3.87%

Zr 343.823†	162.6	0.0004	mg/L	0.00003	0.0004	mg/L	0.00003 7.08%

Sequence No.: 41 **Autosampler Location: 61**
Sample ID: 24E2193-02 **Date Collected: 5/22/2024 7:14:42 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 110 **Auto Dilution Factor: 1**

Mean Data: 24E2193-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	3866168.0	92.64	%	0.137				0.15%
Y radial	197996.7	95.92	%	1.312				1.37%
Ag 328.068†	428.0	0.0018	mg/L	0.00004	0.0018	mg/L	0.00004	2.14%
Al 396.153†	91.6	0.0240	mg/L	0.00265	0.0240	mg/L	0.00265	11.06%
As 188.979†	-13.5	-0.0049	mg/L	0.00256	-0.0049	mg/L	0.00256	52.49%
B 208.889†	1100.5	0.0774	mg/L	0.00022	0.0774	mg/L	0.00022	0.29%
Ba 233.527†	6356.6	0.0519	mg/L	0.00022	0.0519	mg/L	0.00022	0.42%
Be 313.107†	-125.4	-0.0003	mg/L	0.00002	-0.0003	mg/L	0.00002	6.50%
Ca 317.933†	187121.1	26.69	mg/L	0.076	26.69	mg/L	0.076	0.29%
Cd 228.802†	11.2	0.0003	mg/L	0.00006	0.0003	mg/L	0.00006	22.85%
Co 228.616†	-53.5	-0.0007	mg/L	0.00011	-0.0007	mg/L	0.00011	14.87%
Cr 267.716†	-44.4	-0.0006	mg/L	0.00008	-0.0006	mg/L	0.00008	13.21%
Cu 327.393†	756.8	0.0053	mg/L	0.00056	0.0053	mg/L	0.00056	10.71%
Fe 238.204†	4157.3	1.647	mg/L	0.0164	1.647	mg/L	0.0164	1.00%
K 766.490†	12045.2	3.869	mg/L	0.0166	3.869	mg/L	0.0166	0.43%
Mg 285.213†	54838.3	5.688	mg/L	0.0214	5.688	mg/L	0.0214	0.38%
Mn 257.610†	7013.8	0.2464	mg/L	0.00281	0.2464	mg/L	0.00281	1.14%
Mo 202.031†	29.4	0.0016	mg/L	0.00012	0.0016	mg/L	0.00012	7.40%
Na 589.592†	1306443.8	156.4	mg/L	0.83	156.4	mg/L	0.83	0.53%
Ni 231.604†	-87.6	-0.0031	mg/L	0.00027	-0.0031	mg/L	0.00027	8.92%
Pb 220.353†	24.0	0.0027	mg/L	0.00067	0.0027	mg/L	0.00067	24.88%
Sb 206.836†	5.3	0.0011	mg/L	0.00080	0.0011	mg/L	0.00080	72.96%
Se 196.026†	6.2	0.0008	mg/L	0.00363	0.0008	mg/L	0.00363	428.24%
Sn 189.927†	-174.7	-0.0293	mg/L	0.00077	-0.0293	mg/L	0.00077	2.61%
Ti 337.279†	20.2	0.0010	mg/L	0.00008	0.0010	mg/L	0.00008	7.42%
Tl 351.924†	-76.2	-0.0067	mg/L	0.01064	-0.0067	mg/L	0.01064	158.01%
V 290.880†	383.5	0.0023	mg/L	0.00042	0.0023	mg/L	0.00042	18.53%
Zn 206.200†	333.7	-0.0061	mg/L	0.00010	-0.0061	mg/L	0.00010	1.67%
Zr 343.823†	115.7	0.0003	mg/L	0.00013	0.0003	mg/L	0.00013	41.83%

Sequence No.: 42 **Autosampler Location: 62**
Sample ID: 24E2193-03 **Date Collected: 5/22/2024 7:20:17 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 110 **Auto Dilution Factor: 1**

Mean Data: 24E2193-03

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	3728043.4	89.33	%	1.794				2.01%
Y radial	197875.7	95.86	%	1.622				1.69%
Ag 328.068†	378.7	0.0016	mg/L	0.00021	0.0016	mg/L	0.00021	13.45%
Al 396.153†	425.0	0.1112	mg/L	0.00187	0.1112	mg/L	0.00187	1.68%
As 188.979†	-7.5	-0.0008	mg/L	0.00190	-0.0008	mg/L	0.00190	250.86%
B 208.889†	599.9	0.0420	mg/L	0.00208	0.0420	mg/L	0.00208	4.95%
Ba 233.527†	10293.0	0.0837	mg/L	0.00202	0.0837	mg/L	0.00202	2.41%
Be 313.107†	-130.3	-0.0004	mg/L	0.00000	-0.0004	mg/L	0.00000	0.40%
Ca 317.933†	257611.4	36.74	mg/L	0.176	36.74	mg/L	0.176	0.48%
Cd 228.802†	20.1	0.0004	mg/L	0.00013	0.0004	mg/L	0.00013	34.42%
Co 228.616†	10.1	0.0002	mg/L	0.00028	0.0002	mg/L	0.00028	182.55%
Cr 267.716†	136.6	0.0011	mg/L	0.00032	0.0011	mg/L	0.00032	28.15%
Cu 327.393†	476.5	0.0033	mg/L	0.00059	0.0033	mg/L	0.00059	17.85%
Fe 238.204†	14865.6	5.889	mg/L	0.0888	5.889	mg/L	0.0888	1.51%

K 766.490†	31887.2	10.24	mg/L	0.010	10.24	mg/L	0.010	0.09%
Mg 285.213†	44681.6	4.634	mg/L	0.0260	4.634	mg/L	0.0260	0.56%
Mn 257.610†	23083.4	0.8111	mg/L	0.01243	0.8111	mg/L	0.01243	1.53%
Mo 202.031†	68.9	0.0037	mg/L	0.00018	0.0037	mg/L	0.00018	4.81%
Na 589.592†	2430864.0	291.1	mg/L	4.75	291.1	mg/L	4.75	1.63%
Ni 231.604†	-27.0	-0.0009	mg/L	0.00087	-0.0009	mg/L	0.00087	92.13%
Pb 220.353†	33.0	0.0036	mg/L	0.00133	0.0036	mg/L	0.00133	37.19%
Sb 206.836†	11.4	0.0026	mg/L	0.00177	0.0026	mg/L	0.00177	69.15%
Se 196.026†	7.6	0.0010	mg/L	0.00244	0.0010	mg/L	0.00244	237.85%
Sn 189.927†	-214.7	-0.0360	mg/L	0.00159	-0.0360	mg/L	0.00159	4.42%
Ti 337.279†	75.0	0.0039	mg/L	0.00009	0.0039	mg/L	0.00009	2.28%
Tl 351.924†	-32.0	0.0005	mg/L	0.00329	0.0005	mg/L	0.00329	643.74%
V 290.880†	1241.9	0.0073	mg/L	0.00082	0.0073	mg/L	0.00082	11.16%
Zn 206.200†	472.7	-0.0148	mg/L	0.00034	-0.0148	mg/L	0.00034	2.28%
Zr 343.823†	391.9	0.0010	mg/L	0.00010	0.0010	mg/L	0.00010	10.17%

Sequence No.: 43 **Autosampler Location: 63**
Sample ID: 24E2193-04 **Date Collected: 5/22/2024 7:25:57 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 110 **Auto Dilution Factor: 1**

Mean Data: 24E2193-04

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y axial	3868599.9	92.70	%	0.775				0.84%
Y radial	192950.9	93.47	%	1.138				1.22%
Ag 328.068†	481.4	0.0021	mg/L	0.00009	0.0021	mg/L	0.00009	4.39%
Al 396.153†	284.1	0.0742	mg/L	0.00211	0.0742	mg/L	0.00211	2.84%
As 188.979†	-3.7	-0.0015	mg/L	0.00227	-0.0015	mg/L	0.00227	155.40%
B 208.889†	3592.4	0.2528	mg/L	0.00409	0.2528	mg/L	0.00409	1.62%
Ba 233.527†	2509.2	0.0205	mg/L	0.00024	0.0205	mg/L	0.00024	1.15%
Be 313.107†	-82.9	-0.0002	mg/L	0.00003	-0.0002	mg/L	0.00003	15.81%
Ca 317.933†	33655.0	4.800	mg/L	0.0345	4.800	mg/L	0.0345	0.72%
Cd 228.802†	15.2	0.0002	mg/L	0.00006	0.0002	mg/L	0.00006	29.03%
Co 228.616†	-49.4	-0.0007	mg/L	0.00013	-0.0007	mg/L	0.00013	18.80%
Cr 267.716†	-60.6	-0.0007	mg/L	0.00005	-0.0007	mg/L	0.00005	7.33%
Cu 327.393†	710.0	0.0049	mg/L	0.00021	0.0049	mg/L	0.00021	4.18%
Fe 238.204†	1290.1	0.5111	mg/L	0.00545	0.5111	mg/L	0.00545	1.07%
K 766.490†	9145.5	2.937	mg/L	0.0105	2.937	mg/L	0.0105	0.36%
Mg 285.213†	9290.7	0.9638	mg/L	0.01177	0.9638	mg/L	0.01177	1.22%
Mn 257.610†	1438.2	0.0505	mg/L	0.00073	0.0505	mg/L	0.00073	1.45%
Mo 202.031†	18.9	0.0010	mg/L	0.00025	0.0010	mg/L	0.00025	24.75%
Na 589.592†	592037.8	70.89	mg/L	0.391	70.89	mg/L	0.391	0.55%
Ni 231.604†	-34.6	-0.0012	mg/L	0.00037	-0.0012	mg/L	0.00037	30.17%
Pb 220.353†	6.8	0.0008	mg/L	0.00017	0.0008	mg/L	0.00017	22.18%
Sb 206.836†	0.5	0.0001	mg/L	0.00082	0.0001	mg/L	0.00082	724.15%
Se 196.026†	1.1	0.0002	mg/L	0.00422	0.0002	mg/L	0.00422	>999.9%
Sn 189.927†	-37.0	-0.0062	mg/L	0.00018	-0.0062	mg/L	0.00018	2.90%
Ti 337.279†	35.7	0.0018	mg/L	0.00015	0.0018	mg/L	0.00015	8.39%
Tl 351.924†	-2.8	0.0000	mg/L	0.00248	0.0000	mg/L	0.00248	>999.9%
V 290.880†	360.6	0.0022	mg/L	0.00028	0.0022	mg/L	0.00028	12.53%
Zn 206.200†	571.6	0.0065	mg/L	0.00007	0.0065	mg/L	0.00007	1.02%
Zr 343.823†	48.3	0.0001	mg/L	0.00005	0.0001	mg/L	0.00005	40.99%

Sequence No.: 44 **Autosampler Location: 7**
Sample ID: RINSE **Date Collected: 5/22/2024 7:31:29 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 110 **Auto Dilution Factor: 1**

Mean Data: RINSE

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD

Y axial	3817492.2	91.47 %	1.238			1.35%
Y radial	199395.6	96.59 %	1.637			1.69%
Ag 328.068†	496.9	0.0022 mg/L	0.00037	0.0022 mg/L	0.00037	17.21%
Al 396.153†	48.3	0.0126 mg/L	0.00614	0.0126 mg/L	0.00614	48.75%
As 188.979†	1.0	0.0004 mg/L	0.00157	0.0004 mg/L	0.00157	413.63%
B 208.889†	1797.5	0.1265 mg/L	0.00397	0.1265 mg/L	0.00397	3.14%
Ba 233.527†	11.0	0.0001 mg/L	0.00006	0.0001 mg/L	0.00006	66.46%
Be 313.107†	-141.9	-0.0004 mg/L	0.00001	-0.0004 mg/L	0.00001	3.67%
Ca 317.933†	10.6	0.0015 mg/L	0.00480	0.0015 mg/L	0.00480	317.36%
Cd 228.802†	21.5	0.0002 mg/L	0.00017	0.0002 mg/L	0.00017	70.48%
Co 228.616†	-128.4	-0.0017 mg/L	0.00016	-0.0017 mg/L	0.00016	9.25%
Cr 267.716†	-91.7	-0.0010 mg/L	0.00006	-0.0010 mg/L	0.00006	6.09%
Cu 327.393†	173.4	0.0012 mg/L	0.00028	0.0012 mg/L	0.00028	23.19%
Fe 238.204†	-88.9	-0.0352 mg/L	0.00086	-0.0352 mg/L	0.00086	2.43%
K 766.490†	46.7	0.0150 mg/L	0.00920	0.0150 mg/L	0.00920	61.35%
Mg 285.213†	-89.1	-0.0093 mg/L	0.00122	-0.0093 mg/L	0.00122	13.11%
Mn 257.610†	-65.3	-0.0023 mg/L	0.00009	-0.0023 mg/L	0.00009	4.09%
Mo 202.031†	4.6	0.0002 mg/L	0.00017	0.0002 mg/L	0.00017	69.66%
Na 589.592†	280.9	0.0336 mg/L	0.00495	0.0336 mg/L	0.00495	14.73%
Ni 231.604†	-138.0	-0.0048 mg/L	0.00023	-0.0048 mg/L	0.00023	4.79%
Pb 220.353†	-9.2	-0.0011 mg/L	0.00011	-0.0011 mg/L	0.00011	10.24%
Sb 206.836†	-2.0	-0.0004 mg/L	0.00098	-0.0004 mg/L	0.00098	231.36%
Se 196.026†	-1.6	-0.0012 mg/L	0.00111	-0.0012 mg/L	0.00111	92.13%
Sn 189.927†	2.0	0.0003 mg/L	0.00021	0.0003 mg/L	0.00021	59.86%
Ti 337.279†	5.8	0.0003 mg/L	0.00053	0.0003 mg/L	0.00053	177.31%
Tl 351.924†	-33.9	-0.0035 mg/L	0.00444	-0.0035 mg/L	0.00444	126.87%
V 290.880†	46.8	0.0003 mg/L	0.00060	0.0003 mg/L	0.00060	202.78%
Zn 206.200†	-38.7	-0.0009 mg/L	0.00006	-0.0009 mg/L	0.00006	6.39%
Zr 343.823†	-72.9	-0.0002 mg/L	0.00002	-0.0002 mg/L	0.00002	10.77%

Sequence No.: 45
Sample ID: B374725-BLK1
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 64
Date Collected: 5/22/2024 7:36:59 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: B374725-BLK1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y axial	3939421.6	94.40 %		1.465				1.55%
Y radial	189513.8	91.81 %		2.585				2.82%
Ag 328.068†	533.0	0.0023	mg/L	0.00040	0.0023	mg/L	0.00040	17.37%
Al 396.153†	63.3	0.0165	mg/L	0.00668	0.0165	mg/L	0.00668	40.54%
As 188.979†	-18.8	-0.0082	mg/L	0.00020	-0.0082	mg/L	0.00020	2.41%
B 208.889†	1103.9	0.0776	mg/L	0.00260	0.0776	mg/L	0.00260	3.34%
Ba 233.527†	39.8	0.0003	mg/L	0.00007	0.0003	mg/L	0.00007	22.53%
Be 313.107†	-196.7	-0.0005	mg/L	0.00001	-0.0005	mg/L	0.00001	2.04%
Ca 317.933†	386.8	0.0552	mg/L	0.00774	0.0552	mg/L	0.00774	14.03%
Cd 228.802†	47.2	0.0007	mg/L	0.00006	0.0007	mg/L	0.00006	8.03%
Co 228.616†	26.6	0.0004	mg/L	0.00024	0.0004	mg/L	0.00024	66.34%
Cr 267.716†	-113.9	-0.0012	mg/L	0.00010	-0.0012	mg/L	0.00010	8.42%
Cu 327.393†	891.5	0.0062	mg/L	0.00024	0.0062	mg/L	0.00024	3.89%
Fe 238.204†	-31.4	-0.0124	mg/L	0.00426	-0.0124	mg/L	0.00426	34.19%
K 766.490†	144.7	0.0465	mg/L	0.00883	0.0465	mg/L	0.00883	19.00%
Mg 285.213†	-134.2	-0.0140	mg/L	0.00088	-0.0140	mg/L	0.00088	6.27%
Mn 257.610†	-46.7	-0.0016	mg/L	0.00015	-0.0016	mg/L	0.00015	9.32%
Mo 202.031†	21.3	0.0011	mg/L	0.00014	0.0011	mg/L	0.00014	12.53%
Na 589.592†	453.4	0.0543	mg/L	0.00672	0.0543	mg/L	0.00672	12.38%
Ni 231.604†	93.1	0.0033	mg/L	0.00084	0.0033	mg/L	0.00084	25.71%
Pb 220.353†	-19.5	-0.0023	mg/L	0.00014	-0.0023	mg/L	0.00014	6.27%
Sb 206.836†	11.6	0.0028	mg/L	0.00046	0.0028	mg/L	0.00046	16.52%
Se 196.026†	-3.2	-0.0025	mg/L	0.00138	-0.0025	mg/L	0.00138	56.35%
Sn 189.927†	230.8	0.0387	mg/L	0.00063	0.0387	mg/L	0.00063	1.63%
Ti 337.279†	29.6	0.0015	mg/L	0.00036	0.0015	mg/L	0.00036	23.24%
Tl 351.924†	-35.2	-0.0036	mg/L	0.00512	-0.0036	mg/L	0.00512	142.05%
V 290.880†	-277.6	-0.0017	mg/L	0.00054	-0.0017	mg/L	0.00054	31.24%
Zn 206.200†	234.9	0.0051	mg/L	0.00029	0.0051	mg/L	0.00029	5.65%

Zr 343.823†	87.7	0.0003	mg/L	0.00023	0.0003	mg/L	0.00023 88.40%

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Sequence No.: 46 **Autosampler Location: 65**
Sample ID: B374725-BS1 **Date Collected: 5/22/2024 7:42:30 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 110 **Auto Dilution Factor: 1**

Mean Data: B374725-BS1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	3811830.7	91.34	%	1.229				1.35%
Y radial	188318.3	91.23	%	0.462				0.51%
Ag 328.068†	200499.4	0.8715	mg/L	0.00150	0.8715	mg/L	0.00150	0.17%
Al 396.153†	216262.0	56.47	mg/L	0.045	56.47	mg/L	0.045	0.08%
As 188.979†	6811.4	3.004	mg/L	0.0303	3.004	mg/L	0.0303	1.01%
B 208.889†	32669.7	2.225	mg/L	0.0195	2.225	mg/L	0.0195	0.88%
Ba 233.527†	408477.1	3.346	mg/L	0.0047	3.346	mg/L	0.0047	0.14%
Be 313.107†	726044.3	1.789	mg/L	0.0026	1.789	mg/L	0.0026	0.15%
Ca 317.933†	375699.8	53.58	mg/L	0.095	53.58	mg/L	0.095	0.18%
Cd 228.802†	187111.2	2.173	mg/L	0.0052	2.173	mg/L	0.0052	0.24%
Co 228.616†	63095.4	0.8547	mg/L	0.00329	0.8547	mg/L	0.00329	0.38%
Cr 267.716†	179430.7	1.932	mg/L	0.0011	1.932	mg/L	0.0011	0.06%
Cu 327.393†	321827.5	2.238	mg/L	0.0068	2.238	mg/L	0.0068	0.30%
Fe 238.204†	154422.2	61.18	mg/L	0.099	61.18	mg/L	0.099	0.16%
K 766.490†	38775.4	12.45	mg/L	0.040	12.45	mg/L	0.040	0.32%
Mg 285.213†	159460.2	16.59	mg/L	0.022	16.59	mg/L	0.022	0.13%
Mn 257.610†	183587.5	6.452	mg/L	0.0076	6.452	mg/L	0.0076	0.12%
Mo 202.031†	27995.9	1.486	mg/L	0.0129	1.486	mg/L	0.0129	0.87%
Na 589.592†	41891.3	5.016	mg/L	0.0041	5.016	mg/L	0.0041	0.08%
Ni 231.604†	91352.0	3.210	mg/L	0.0017	3.210	mg/L	0.0017	0.05%
Pb 220.353†	8099.4	0.9365	mg/L	0.00910	0.9365	mg/L	0.00910	0.97%
Sb 206.836†	4694.6	0.9992	mg/L	0.00904	0.9992	mg/L	0.00904	0.91%
Se 196.026†	2219.2	1.684	mg/L	0.0122	1.684	mg/L	0.0122	0.73%
Sn 189.927†	4579.2	0.7685	mg/L	0.00628	0.7685	mg/L	0.00628	0.82%
Ti 337.279†	69884.2	3.608	mg/L	0.0066	3.608	mg/L	0.0066	0.18%
Tl 351.924†	18962.5	1.962	mg/L	0.0159	1.962	mg/L	0.0159	0.81%
V 290.880†	185787.1	1.159	mg/L	0.0037	1.159	mg/L	0.0037	0.32%
Zn 206.200†	80047.0	1.769	mg/L	0.0034	1.769	mg/L	0.0034	0.19%
Zr 343.823†	24984.5	0.0725	mg/L	0.00067	0.0725	mg/L	0.00067	0.93%

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Sequence No.: 47 **Autosampler Location: 66**
Sample ID: B374725-BSD1 **Date Collected: 5/22/2024 7:46:58 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 110 **Auto Dilution Factor: 1**

Mean Data: B374725-BSD1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	3929741.2	94.16	%	0.503				0.53%
Y radial	192107.3	93.06	%	0.701				0.75%
Ag 328.068†	192196.1	0.8354	mg/L	0.00238	0.8354	mg/L	0.00238	0.29%
Al 396.153†	208088.2	54.33	mg/L	0.324	54.33	mg/L	0.324	0.60%
As 188.979†	6343.4	2.799	mg/L	0.0129	2.799	mg/L	0.0129	0.46%
B 208.889†	30716.2	2.093	mg/L	0.0041	2.093	mg/L	0.0041	0.20%
Ba 233.527†	365139.7	2.991	mg/L	0.0036	2.991	mg/L	0.0036	0.12%
Be 313.107†	668286.3	1.647	mg/L	0.0089	1.647	mg/L	0.0089	0.54%
Ca 317.933†	358528.7	51.14	mg/L	0.382	51.14	mg/L	0.382	0.75%
Cd 228.802†	174398.7	2.026	mg/L	0.0023	2.026	mg/L	0.0023	0.12%
Co 228.616†	59373.4	0.8041	mg/L	0.00087	0.8041	mg/L	0.00087	0.11%
Cr 267.716†	166837.2	1.797	mg/L	0.0021	1.797	mg/L	0.0021	0.12%
Cu 327.393†	300154.9	2.087	mg/L	0.0163	2.087	mg/L	0.0163	0.78%
Fe 238.204†	146981.5	58.23	mg/L	0.399	58.23	mg/L	0.399	0.68%

K 766.490†	36929.0	11.86	mg/L	0.070	11.86	mg/L	0.070	0.59%
Mg 285.213†	154130.7	16.04	mg/L	0.082	16.04	mg/L	0.082	0.51%
Mn 257.610†	150773.4	5.299	mg/L	0.0285	5.299	mg/L	0.0285	0.54%
Mo 202.031†	25853.1	1.372	mg/L	0.0042	1.372	mg/L	0.0042	0.30%
Na 589.592†	39176.8	4.691	mg/L	0.0284	4.691	mg/L	0.0284	0.61%
Ni 231.604†	85672.5	3.011	mg/L	0.0118	3.011	mg/L	0.0118	0.39%
Pb 220.353†	7685.5	0.8888	mg/L	0.00404	0.8888	mg/L	0.00404	0.45%
Sb 206.836†	4375.1	0.9314	mg/L	0.00567	0.9314	mg/L	0.00567	0.61%
Se 196.026†	2045.6	1.552	mg/L	0.0130	1.552	mg/L	0.0130	0.84%
Sn 189.927†	4340.0	0.7284	mg/L	0.00373	0.7284	mg/L	0.00373	0.51%
Ti 337.279†	66099.2	3.413	mg/L	0.0164	3.413	mg/L	0.0164	0.48%
Tl 351.924†	17157.9	1.776	mg/L	0.0035	1.776	mg/L	0.0035	0.20%
V 290.880†	170246.6	1.062	mg/L	0.0024	1.062	mg/L	0.0024	0.23%
Zn 206.200†	77013.8	1.702	mg/L	0.0052	1.702	mg/L	0.0052	0.30%
Zr 343.823†	23178.9	0.0672	mg/L	0.00033	0.0672	mg/L	0.00033	0.49%

Sequence No.: 48
Sample ID: B374725-MS1
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 67
Date Collected: 5/22/2024 7:51:27 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: B374725-MS1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y axial	3910201.1	93.69	%	0.245				0.26%
Y radial	201266.5	97.50	%	1.791				1.84%
Ag 328.068†	102242.1	0.4536	mg/L	0.00133	0.4536	mg/L	0.00133	0.29%
Al 396.153†	1385668.0	362.2	mg/L	2.69	362.2	mg/L	2.69	0.74%
As 188.979†	839.4	0.5399	mg/L	0.00540	0.5399	mg/L	0.00540	1.00%
B 208.889†	11095.8	0.7601	mg/L	0.00320	0.7601	mg/L	0.00320	0.42%
Ba 233.527†	301467.1	2.408	mg/L	0.0080	2.408	mg/L	0.0080	0.33%
Be 313.107†	193674.1	0.4740	mg/L	0.00085	0.4740	mg/L	0.00085	0.18%
Ca 317.933†	1308514.7	186.6	mg/L	1.94	186.6	mg/L	1.94	1.04%
Cd 228.802†	38821.6	0.4646	mg/L	0.00205	0.4646	mg/L	0.00205	0.44%
Co 228.616†	50340.3	0.6820	mg/L	0.00182	0.6820	mg/L	0.00182	0.27%
Cr 267.716†	78218.5	0.8379	mg/L	0.00127	0.8379	mg/L	0.00127	0.15%
Cu 327.393†	259178.3	1.802	mg/L	0.0012	1.802	mg/L	0.0012	0.07%
Fe 238.204†	1295549.2	513.2	mg/L	5.78	513.2	mg/L	5.78	1.13%
K 766.490†	72047.9	23.14	mg/L	0.013	23.14	mg/L	0.013	0.06%
Mg 285.213†	969665.3	101.1	mg/L	0.94	101.1	mg/L	0.94	0.93%
Mn 257.610†	370419.3	13.05	mg/L	0.041	13.05	mg/L	0.041	0.31%
Mo 202.031†	7799.6	0.4139	mg/L	0.00214	0.4139	mg/L	0.00214	0.52%
Na 589.592†	40953.0	4.904	mg/L	0.0119	4.904	mg/L	0.0119	0.24%
Ni 231.604†	27960.1	0.9828	mg/L	0.00496	0.9828	mg/L	0.00496	0.51%
Pb 220.353†	11244.1	1.322	mg/L	0.0051	1.322	mg/L	0.0051	0.38%
Sb 206.836†	258.5	0.0693	mg/L	0.00073	0.0693	mg/L	0.00073	1.05%
Se 196.026†	553.7	0.3964	mg/L	0.00481	0.3964	mg/L	0.00481	1.21%
Sn 189.927†	2029.4	0.3405	mg/L	0.00328	0.3405	mg/L	0.00328	0.96%
Ti 337.279†	45908.2	2.370	mg/L	0.0043	2.370	mg/L	0.0043	0.18%
Tl 351.924†	847.1	0.4078	mg/L	0.00467	0.4078	mg/L	0.00467	1.15%
V 290.880†	158464.3	0.9549	mg/L	0.00512	0.9549	mg/L	0.00512	0.54%
Zn 206.200†	130193.8	2.835	mg/L	0.0107	2.835	mg/L	0.0107	0.38%
Zr 343.823†	38252.4	0.1010	mg/L	0.00141	0.1010	mg/L	0.00141	1.39%

Sequence No.: 49
Sample ID: SEQ-CCV@ 23J0975
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 230

Autosampler Location: 5
Date Collected: 5/22/2024 7:58:04 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD

Y axial	3856041.5	92.40 %	0.087			0.09%
Y radial	189607.0	91.85 %	1.192			1.30%
Ag 328.068†	600191.8	2.576 mg/L	0.0123	2.576 mg/L	0.0123	0.48%
QC value within limits for Ag 328.068 Recovery = 103.05%						
Al 396.153†	39402.9	10.03 mg/L	0.022	10.03 mg/L	0.022	0.22%
QC value within limits for Al 396.153 Recovery = 100.26%						
As 188.979†	11391.3	4.956 mg/L	0.0200	4.956 mg/L	0.0200	0.40%
QC value within limits for As 188.979 Recovery = 99.12%						
B 208.889†	73241.1	4.896 mg/L	0.0298	4.896 mg/L	0.0298	0.61%
QC value within limits for B 208.889 Recovery = 97.92%						
Ba 233.527†	634894.8	5.219 mg/L	0.0035	5.219 mg/L	0.0035	0.07%
QC value within limits for Ba 233.527 Recovery = 104.38%						
Be 313.107†	2047299.5	5.036 mg/L	0.0262	5.036 mg/L	0.0262	0.52%
QC value within limits for Be 313.107 Recovery = 100.72%						
Ca 317.933†	72042.6	10.28 mg/L	0.026	10.28 mg/L	0.026	0.25%
QC value within limits for Ca 317.933 Recovery = 102.75%						
Cd 228.802†	442597.9	5.196 mg/L	0.0042	5.196 mg/L	0.0042	0.08%
QC value within limits for Cd 228.802 Recovery = 103.92%						
Co 228.616†	381124.6	5.197 mg/L	0.0015	5.197 mg/L	0.0015	0.03%
QC value within limits for Co 228.616 Recovery = 103.94%						
Cr 267.716†	479379.1	5.168 mg/L	0.0067	5.168 mg/L	0.0067	0.13%
QC value within limits for Cr 267.716 Recovery = 103.37%						
Cu 327.393†	710395.8	4.957 mg/L	0.0444	4.957 mg/L	0.0444	0.90%
QC value within limits for Cu 327.393 Recovery = 99.14%						
Fe 238.204†	12803.2	5.099 mg/L	0.0118	5.099 mg/L	0.0118	0.23%
QC value within limits for Fe 238.204 Recovery = 101.99%						
K 766.490†	31220.2	10.03 mg/L	0.029	10.03 mg/L	0.029	0.29%
QC value within limits for K 766.490 Recovery = 100.27%						
Mg 285.213†	98557.6	10.21 mg/L	0.019	10.21 mg/L	0.019	0.19%
QC value within limits for Mg 285.213 Recovery = 102.10%						
Mn 257.610†	143273.8	5.032 mg/L	0.0069	5.032 mg/L	0.0069	0.14%
QC value within limits for Mn 257.610 Recovery = 100.63%						
Mo 202.031†	96859.6	5.140 mg/L	0.0277	5.140 mg/L	0.0277	0.54%
QC value within limits for Mo 202.031 Recovery = 102.80%						
Na 589.592†	85508.7	10.24 mg/L	0.058	10.24 mg/L	0.058	0.57%
QC value within limits for Na 589.592 Recovery = 102.39%						
Ni 231.604†	146937.3	5.165 mg/L	0.0112	5.165 mg/L	0.0112	0.22%
QC value within limits for Ni 231.604 Recovery = 103.29%						
Pb 220.353†	44272.8	5.105 mg/L	0.0157	5.105 mg/L	0.0157	0.31%
QC value within limits for Pb 220.353 Recovery = 102.09%						
Sb 206.836†	22841.6	4.936 mg/L	0.0194	4.936 mg/L	0.0194	0.39%
QC value within limits for Sb 206.836 Recovery = 98.72%						
Se 196.026†	6594.1	5.029 mg/L	0.0250	5.029 mg/L	0.0250	0.50%
QC value within limits for Se 196.026 Recovery = 100.58%						
Sn 189.927†	30495.0	5.113 mg/L	0.0164	5.113 mg/L	0.0164	0.32%
QC value within limits for Sn 189.927 Recovery = 102.26%						
Ti 337.279†	97478.7	5.030 mg/L	0.0138	5.030 mg/L	0.0138	0.27%
QC value within limits for Ti 337.279 Recovery = 100.60%						
Tl 351.924†	24262.0	2.438 mg/L	0.0071	2.438 mg/L	0.0071	0.29%
QC value within limits for Tl 351.924 Recovery = 97.53%						
V 290.880†	844506.3	5.283 mg/L	0.0035	5.283 mg/L	0.0035	0.07%
QC value within limits for V 290.880 Recovery = 105.66%						
Zn 206.200†	239564.2	5.302 mg/L	0.0081	5.302 mg/L	0.0081	0.15%
QC value within limits for Zn 206.200 Recovery = 106.05%						
Zr 343.823†	1710117.2	5.061 mg/L	0.0058	5.061 mg/L	0.0058	0.12%

All analyte(s) passed QC.

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Sequence No.: 50 **Autosampler Location: 1**
Sample ID: SEQ-CCB@ 23J0970 **Date Collected: 5/22/2024 8:04:40 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 230 **Auto Dilution Factor: 1**

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y axial	3745157.8	89.74	%	1.075				1.20%

Y radial	179365.6	86.89 %	0.211			0.24%
Ag 328.068†	573.6	0.0025 mg/L	0.00033	0.0025 mg/L	0.00033	13.23%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153†	44.0	0.0114 mg/L	0.01053	0.0114 mg/L	0.01053	92.31%
QC value within limits for Al 396.153 Recovery = Not calculated						
As 188.979†	0.7	0.0003 mg/L	0.00219	0.0003 mg/L	0.00219	708.78%
QC value within limits for As 188.979 Recovery = Not calculated						
B 208.889†	573.0	0.0402 mg/L	0.00093	0.0402 mg/L	0.00093	2.32%
QC value within limits for B 208.889 Recovery = Not calculated						
Ba 233.527†	50.3	0.0004 mg/L	0.00005	0.0004 mg/L	0.00005	11.96%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	164.5	0.0004 mg/L	0.00008	0.0004 mg/L	0.00008	20.89%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933†	51.3	0.0073 mg/L	0.00221	0.0073 mg/L	0.00221	30.19%
QC value within limits for Ca 317.933 Recovery = Not calculated						
Cd 228.802†	69.7	0.0008 mg/L	0.00016	0.0008 mg/L	0.00016	19.99%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	12.0	0.0002 mg/L	0.00016	0.0002 mg/L	0.00016	98.69%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-134.4	-0.0014 mg/L	0.00011	-0.0014 mg/L	0.00011	7.76%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 327.393†	2390.3	0.0166 mg/L	0.00072	0.0166 mg/L	0.00072	4.31%
QC value greater than the upper limit for Cu 327.393 Recovery = Not calculated SOIL OK- JLC 05/23/24						
Fe 238.204†	-17.4	-0.0069 mg/L	0.00213	-0.0069 mg/L	0.00213	30.82%
QC value within limits for Fe 238.204 Recovery = Not calculated						
K 766.490†	74.1	0.0238 mg/L	0.01120	0.0238 mg/L	0.01120	47.11%
QC value within limits for K 766.490 Recovery = Not calculated						
Mg 285.213†	-315.6	-0.0328 mg/L	0.00077	-0.0328 mg/L	0.00077	2.34%
QC value within limits for Mg 285.213 Recovery = Not calculated						
Mn 257.610†	-40.0	-0.0014 mg/L	0.00024	-0.0014 mg/L	0.00024	17.42%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	34.2	0.0018 mg/L	0.00028	0.0018 mg/L	0.00028	15.26%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592†	112.3	0.0134 mg/L	0.01153	0.0134 mg/L	0.01153	85.73%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	-17.2	-0.0006 mg/L	0.00034	-0.0006 mg/L	0.00034	55.39%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	2.0	0.0002 mg/L	0.00108	0.0002 mg/L	0.00108	523.02%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	1.7	0.0004 mg/L	0.00097	0.0004 mg/L	0.00097	231.46%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-1.7	-0.0013 mg/L	0.00282	-0.0013 mg/L	0.00282	213.58%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	5.3	0.0009 mg/L	0.00024	0.0009 mg/L	0.00024	26.64%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	31.9	0.0016 mg/L	0.00027	0.0016 mg/L	0.00027	16.47%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 351.924†	-1.1	-0.0001 mg/L	0.00246	-0.0001 mg/L	0.00246	>999.9%
QC value within limits for Tl 351.924 Recovery = Not calculated						
V 290.880†	69.0	0.0004 mg/L	0.00050	0.0004 mg/L	0.00050	115.03%
QC value within limits for V 290.880 Recovery = Not calculated						
Zn 206.200†	207.9	0.0046 mg/L	0.00038	0.0046 mg/L	0.00038	8.30%
QC value within limits for Zn 206.200 Recovery = Not calculated						
Zr 343.823†	40.0	0.0001 mg/L	0.00009	0.0001 mg/L	0.00009	78.46%

QC Failed. Continue with analysis.

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Sequence No.: 51 **Autosampler Location: 68**
Sample ID: B374725-MSD1 **Date Collected: 5/22/2024 8:10:10 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 110 **Auto Dilution Factor: 1**

Mean Data: B374725-MSD1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	3820924.6	91.56	%	0.767				0.84%
Y radial	198717.7	96.26	%	0.417				0.43%

Ag 328.068†	105358.2	0.4675 mg/L	0.00080	0.4675 mg/L	0.00080	0.17%
Al 396.153†	1430951.1	374.0 mg/L	7.00	374.0 mg/L	7.00	1.87%
As 188.979†	854.4	0.5453 mg/L	0.00641	0.5453 mg/L	0.00641	1.18%
B 208.889†	10861.8	0.7430 mg/L	0.00646	0.7430 mg/L	0.00646	0.87%
Ba 233.527†	313676.3	2.508 mg/L	0.0066	2.508 mg/L	0.0066	0.26%
Be 313.107†	204860.4	0.5014 mg/L	0.00099	0.5014 mg/L	0.00099	0.20%
Ca 317.933†	628615.8	89.66 mg/L	0.146	89.66 mg/L	0.146	0.16%
Cd 228.802†	40310.7	0.4824 mg/L	0.00043	0.4824 mg/L	0.00043	0.09%
Co 228.616†	52934.6	0.7173 mg/L	0.00117	0.7173 mg/L	0.00117	0.16%
Cr 267.716†	83006.6	0.8899 mg/L	0.00295	0.8899 mg/L	0.00295	0.33%
Cu 327.393†	266689.0	1.854 mg/L	0.0060	1.854 mg/L	0.0060	0.33%
Fe 238.204†	1301809.1	515.7 mg/L	10.16	515.7 mg/L	10.16	1.97%
K 766.490†	74158.2	23.82 mg/L	0.048	23.82 mg/L	0.048	0.20%
Mg 285.213†	969106.6	101.0 mg/L	1.92	101.0 mg/L	1.92	1.91%
Mn 257.610†	343402.5	12.10 mg/L	0.023	12.10 mg/L	0.023	0.19%
Mo 202.031†	8056.3	0.4275 mg/L	0.00403	0.4275 mg/L	0.00403	0.94%
Na 589.592†	42150.2	5.047 mg/L	0.0075	5.047 mg/L	0.0075	0.15%
Ni 231.604†	28844.5	1.014 mg/L	0.0075	1.014 mg/L	0.0075	0.74%
Pb 220.353†	11384.5	1.340 mg/L	0.0107	1.340 mg/L	0.0107	0.80%
Sb 206.836†	244.1	0.0655 mg/L	0.00324	0.0655 mg/L	0.00324	4.95%
Se 196.026†	581.5	0.4279 mg/L	0.00723	0.4279 mg/L	0.00723	1.69%
Sn 189.927†	2144.7	0.3599 mg/L	0.00278	0.3599 mg/L	0.00278	0.77%
Ti 337.279†	46990.5	2.426 mg/L	0.0052	2.426 mg/L	0.0052	0.22%
Tl 351.924†	921.5	0.4166 mg/L	0.00742	0.4166 mg/L	0.00742	1.78%
V 290.880†	166602.0	1.006 mg/L	0.0036	1.006 mg/L	0.0036	0.36%
Zn 206.200†	137471.3	2.996 mg/L	0.0135	2.996 mg/L	0.0135	0.45%
Zr 343.823†	39803.4	0.1055 mg/L	0.00145	0.1055 mg/L	0.00145	1.37%

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Sequence No.: 52
Sample ID: B374725-PS1
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 230

Autosampler Location: 69
Date Collected: 5/22/2024 8:16:45 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: B374725-PS1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y axial	3843255.8	92.09	%	0.746				0.81%
Y radial	196159.6	95.03	%	1.261				1.33%
Ag 328.068†	455339.5	1.987	mg/L	0.0066	1.987	mg/L	0.0066	0.33%
Al 396.153†	1279273.4	334.3	mg/L	0.54	334.3	mg/L	0.54	0.16%
As 188.979†	3869.9	1.851	mg/L	0.0132	1.851	mg/L	0.0132	0.71%
B 208.889†	48256.7	3.304	mg/L	0.0173	3.304	mg/L	0.0173	0.52%
Ba 233.527†	468013.1	3.779	mg/L	0.0144	3.779	mg/L	0.0144	0.38%
Be 313.107†	771088.9	1.895	mg/L	0.0086	1.895	mg/L	0.0086	0.46%
Ca 317.933†	894773.0	127.6	mg/L	0.34	127.6	mg/L	0.34	0.26%
Cd 228.802†	161124.4	1.901	mg/L	0.0077	1.901	mg/L	0.0077	0.40%
Co 228.616†	147692.0	2.010	mg/L	0.0070	2.010	mg/L	0.0070	0.35%
Cr 267.716†	208016.7	2.237	mg/L	0.0050	2.237	mg/L	0.0050	0.22%
Cu 327.393†	698674.3	4.858	mg/L	0.0190	4.858	mg/L	0.0190	0.39%
Fe 238.204†	1247495.2	494.2	mg/L	0.71	494.2	mg/L	0.71	0.14%
K 766.490†	105272.5	33.81	mg/L	0.126	33.81	mg/L	0.126	0.37%
Mg 285.213†	1014207.2	105.7	mg/L	0.03	105.7	mg/L	0.03	0.03%
Mn 257.610†	389476.7	13.72	mg/L	0.044	13.72	mg/L	0.044	0.32%
Mo 202.031†	34757.6	1.845	mg/L	0.0162	1.845	mg/L	0.0162	0.88%
Na 589.592†	135134.6	16.18	mg/L	0.064	16.18	mg/L	0.064	0.40%
Ni 231.604†	64071.4	2.252	mg/L	0.0043	2.252	mg/L	0.0043	0.19%
Pb 220.353†	21937.6	2.548	mg/L	0.0197	2.548	mg/L	0.0197	0.77%
Sb 206.836†	8200.3	1.787	mg/L	0.0154	1.787	mg/L	0.0154	0.86%
Se 196.026†	2374.4	1.790	mg/L	0.0226	1.790	mg/L	0.0226	1.26%
Sn 189.927†	10208.8	1.713	mg/L	0.0133	1.713	mg/L	0.0133	0.78%
Ti 337.279†	73945.8	3.818	mg/L	0.0177	3.818	mg/L	0.0177	0.46%
Tl 351.924†	15151.2	1.847	mg/L	0.0150	1.847	mg/L	0.0150	0.81%
V 290.880†	389362.0	2.401	mg/L	0.0103	2.401	mg/L	0.0103	0.43%
Zn 206.200†	247533.5	5.423	mg/L	0.0125	5.423	mg/L	0.0125	0.23%
Zr 343.823†	37890.6	0.1004	mg/L	0.00111	0.1004	mg/L	0.00111	1.10%

Sequence No.: 53 **Autosampler Location: 70**
Sample ID: B374725-SRL1 **Date Collected: 5/22/2024 8:21:21 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 110 **Auto Dilution Factor: 1**

Mean Data: B374725-SRL1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	3903040.9	93.52	%	0.429				0.46%
Y radial	191217.2	92.63	%	0.824				0.89%
Ag 328.068†	-1286.7	-0.0033	mg/L	0.00022	-0.0033	mg/L	0.00022	6.72%
Al 396.153†	280817.3	73.40	mg/L	0.103	73.40	mg/L	0.103	0.14%
As 188.979†	-37.6	0.0247	mg/L	0.00265	0.0247	mg/L	0.00265	10.73%
B 208.889†	664.0	0.0469	mg/L	0.00207	0.0469	mg/L	0.00207	4.41%
Ba 233.527†	55775.1	0.4417	mg/L	0.00877	0.4417	mg/L	0.00877	1.99%
Be 313.107†	1543.7	0.0033	mg/L	0.00008	0.0033	mg/L	0.00008	2.31%
Ca 317.933†	181581.4	25.90	mg/L	0.096	25.90	mg/L	0.096	0.37%
Cd 228.802†	-14.7	0.0019	mg/L	0.00015	0.0019	mg/L	0.00015	7.69%
Co 228.616†	4273.5	0.0573	mg/L	0.00052	0.0573	mg/L	0.00052	0.90%
Cr 267.716†	7617.1	0.0809	mg/L	0.00090	0.0809	mg/L	0.00090	1.11%
Cu 327.393†	22806.0	0.1586	mg/L	0.00333	0.1586	mg/L	0.00333	2.10%
Fe 238.204†	308199.7	122.1	mg/L	0.44	122.1	mg/L	0.44	0.36%
K 766.490†	13218.1	4.245	mg/L	0.0054	4.245	mg/L	0.0054	0.13%
Mg 285.213†	200945.4	20.96	mg/L	0.065	20.96	mg/L	0.065	0.31%
Mn 257.610†	79876.3	2.814	mg/L	0.0075	2.814	mg/L	0.0075	0.27%
Mo 202.031†	-46.0	-0.0024	mg/L	0.00019	-0.0024	mg/L	0.00019	7.69%
Na 589.592†	2127.9	0.2548	mg/L	0.00312	0.2548	mg/L	0.00312	1.23%
Ni 231.604†	3500.2	0.1231	mg/L	0.00124	0.1231	mg/L	0.00124	1.01%
Pb 220.353†	1837.3	0.2168	mg/L	0.00182	0.2168	mg/L	0.00182	0.84%
Sb 206.836†	-3.8	0.0035	mg/L	0.00090	0.0035	mg/L	0.00090	26.13%
Se 196.026†	4.8	0.0001	mg/L	0.00309	0.0001	mg/L	0.00309	>999.9%
Sn 189.927†	-135.9	-0.0228	mg/L	0.00021	-0.0228	mg/L	0.00021	0.92%
Ti 337.279†	8501.7	0.4389	mg/L	0.00312	0.4389	mg/L	0.00312	0.71%
Tl 351.924†	-719.4	0.0038	mg/L	0.00097	0.0038	mg/L	0.00097	25.73%
V 290.880†	18114.6	0.1046	mg/L	0.00257	0.1046	mg/L	0.00257	2.45%
Zn 206.200†	20666.9	0.4473	mg/L	0.00785	0.4473	mg/L	0.00785	1.76%
Zr 343.823†	7907.2	0.0205	mg/L	0.00059	0.0205	mg/L	0.00059	2.88%

Sequence No.: 54 **Autosampler Location: 71**
Sample ID: 24E1437-01 **Date Collected: 5/22/2024 8:26:54 PM**
Analyst: 24E1437-06 **Data Type: Original**
Initial Sample Wt: -JLC 05/23/24 **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 110 **Auto Dilution Factor: 1**

Mean Data: 24E1437-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	3798944.3	91.03	%	1.000				1.10%
Y radial	194550.6	94.25	%	0.449				0.48%
Ag 328.068†	-7978.0	-0.0255	mg/L	0.00083	-0.0255	mg/L	0.00083	3.27%
Al 396.153†	1327257.4	346.9	mg/L	5.22	346.9	mg/L	5.22	1.50%
As 188.979†	-114.7	0.1208	mg/L	0.00668	0.1208	mg/L	0.00668	5.53%
B 208.889†	979.6	0.0697	mg/L	0.00132	0.0697	mg/L	0.00132	1.89%
Ba 233.527†	254213.0	2.020	mg/L	0.0082	2.020	mg/L	0.0082	0.41%
Be 313.107†	7259.7	0.0154	mg/L	0.00012	0.0154	mg/L	0.00012	0.79%
Ca 317.933†	823621.4	117.5	mg/L	1.70	117.5	mg/L	1.70	1.45%
Cd 228.802†	-211.5	0.0058	mg/L	0.00029	0.0058	mg/L	0.00029	4.93%
Co 228.616†	18789.1	0.2516	mg/L	0.00253	0.2516	mg/L	0.00253	1.01%
Cr 267.716†	35902.0	0.3817	mg/L	0.00396	0.3817	mg/L	0.00396	1.04%
Cu 327.393†	107873.6	0.7503	mg/L	0.00139	0.7503	mg/L	0.00139	0.18%
Fe 238.204†	1267306.5	502.0	mg/L	6.57	502.0	mg/L	6.57	1.31%
K 766.490†	61575.6	19.78	mg/L	0.062	19.78	mg/L	0.062	0.31%
Mg 285.213†	906939.9	94.55	mg/L	1.346	94.55	mg/L	1.346	1.42%

Mn 257.610†	357285.1	12.59	mg/L	0.188	12.59	mg/L	0.188	1.49%
Mo 202.031†	-280.4	-0.0149	mg/L	0.00023	-0.0149	mg/L	0.00023	1.57%
Na 589.592†	9887.1	1.184	mg/L	0.0102	1.184	mg/L	0.0102	0.86%
Ni 231.604†	15344.7	0.5396	mg/L	0.00444	0.5396	mg/L	0.00444	0.82%
Pb 220.353†	7706.0	0.9139	mg/L	0.00931	0.9139	mg/L	0.00931	1.02%
Sb 206.836†	-55.8	0.0051	mg/L	0.00268	0.0051	mg/L	0.00268	52.85%
Se 196.026†	5.0	-0.0139	mg/L	0.00183	-0.0139	mg/L	0.00183	13.19%
Sn 189.927†	-57.5	-0.0098	mg/L	0.00189	-0.0098	mg/L	0.00189	19.29%
Ti 337.279†	38932.3	2.010	mg/L	0.0056	2.010	mg/L	0.0056	0.28%
Tl 351.924†	-3417.6	-0.0324	mg/L	0.00383	-0.0324	mg/L	0.00383	11.80%
V 290.880†	83884.0	0.4892	mg/L	0.00251	0.4892	mg/L	0.00251	0.51%
Zn 206.200†	90472.0	1.961	mg/L	0.0069	1.961	mg/L	0.0069	0.35%
Zr 343.823†	39056.8	0.1036	mg/L	0.00090	0.1036	mg/L	0.00090	0.87%

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Sequence No.: 55
Sample ID: 24E1437-02
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 230

24E1437-01
-JLC 05/23/24

Autosampler Location: 72
Date Collected: 5/22/2024 8:33:29 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: 24E1437-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	3627220.4	86.91	%	0.838				0.96%
Y radial	185167.2	89.70	%	1.445				1.61%
Ag 328.068†	-5162.8	-0.0180	mg/L	0.00033	-0.0180	mg/L	0.00033	1.85%
Al 396.153†	814437.2	212.9	mg/L	0.43	212.9	mg/L	0.43	0.20%
As 188.979†	-103.3	0.0927	mg/L	0.00255	0.0927	mg/L	0.00255	2.75%
B 208.889†	1637.6	0.1156	mg/L	0.00119	0.1156	mg/L	0.00119	1.03%
Ba 233.527†	237239.5	1.899	mg/L	0.0052	1.899	mg/L	0.0052	0.27%
Be 313.107†	4497.9	0.0093	mg/L	0.00027	0.0093	mg/L	0.00027	2.91%
Ca 317.933†	2761251.3	393.8	mg/L	1.38	393.8	mg/L	1.38	0.35%
Cd 228.802†	314.3	0.0098	mg/L	0.00022	0.0098	mg/L	0.00022	2.25%
Co 228.616†	12923.9	0.1714	mg/L	0.00226	0.1714	mg/L	0.00226	1.32%
Cr 267.716†	28957.9	0.3047	mg/L	0.00400	0.3047	mg/L	0.00400	1.31%
Cu 327.393†	117933.1	0.8203	mg/L	0.00179	0.8203	mg/L	0.00179	0.22%
Fe 238.204†	920883.6	364.8	mg/L	1.31	364.8	mg/L	1.31	0.36%
K 766.490†	98359.6	31.59	mg/L	0.082	31.59	mg/L	0.082	0.26%
Mg 285.213†	1168466.7	121.5	mg/L	0.36	121.5	mg/L	0.36	0.29%
Mn 257.610†	498204.4	17.52	mg/L	0.051	17.52	mg/L	0.051	0.29%
Mo 202.031†	-132.5	-0.0070	mg/L	0.00018	-0.0070	mg/L	0.00018	2.49%
Na 589.592†	8381.5	1.004	mg/L	0.0300	1.004	mg/L	0.0300	2.99%
Ni 231.604†	10734.8	0.3775	mg/L	0.00419	0.3775	mg/L	0.00419	1.11%
Pb 220.353†	7551.4	0.8825	mg/L	0.00920	0.8825	mg/L	0.00920	1.04%
Sb 206.836†	8.8	0.0137	mg/L	0.00143	0.0137	mg/L	0.00143	10.44%
Se 196.026†	11.0	-0.0490	mg/L	0.00591	-0.0490	mg/L	0.00591	12.05%
Sn 189.927†	-236.0	-0.0397	mg/L	0.00216	-0.0397	mg/L	0.00216	5.44%
Ti 337.279†	42703.4	2.205	mg/L	0.0566	2.205	mg/L	0.0566	2.57%
Tl 351.924†	-2346.8	-0.0121	mg/L	0.00417	-0.0121	mg/L	0.00417	34.32%
V 290.880†	59505.5	0.3467	mg/L	0.00046	0.3467	mg/L	0.00046	0.13%
Zn 206.200†	116258.3	2.537	mg/L	0.0034	2.537	mg/L	0.0034	0.13%
Zr 343.823†	37968.8	0.1037	mg/L	0.00008	0.1037	mg/L	0.00008	0.08%

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Sequence No.: 56
Sample ID: 24E1437-03
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

24E1437-02
-JLC 05/23/24

Autosampler Location: 73
Date Collected: 5/22/2024 8:38:05 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: 24E1437-03

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	3682027.6	88.23	%	0.624				0.71%
Y radial	186706.7	90.45	%	0.488				0.54%

Ag 328.068†	-4720.8	-0.0155 mg/L	0.00008	-0.0155 mg/L	0.00008	0.53%
Al 396.153†	724057.5	189.3 mg/L	0.18	189.3 mg/L	0.18	0.09%
As 188.979†	-111.2	0.0775 mg/L	0.00104	0.0775 mg/L	0.00104	1.34%
B 208.889†	1767.6	0.1246 mg/L	0.00118	0.1246 mg/L	0.00118	0.95%
Ba 233.527†	198700.8	1.587 mg/L	0.0054	1.587 mg/L	0.0054	0.34%
Be 313.107†	4114.2	0.0085 mg/L	0.00013	0.0085 mg/L	0.00013	1.54%
Ca 317.933†	2402081.0	342.6 mg/L	1.42	342.6 mg/L	1.42	0.41%
Cd 228.802†	216.4	0.0082 mg/L	0.00014	0.0082 mg/L	0.00014	1.76%
Co 228.616†	11042.6	0.1461 mg/L	0.00108	0.1461 mg/L	0.00108	0.74%
Cr 267.716†	26985.7	0.2856 mg/L	0.00169	0.2856 mg/L	0.00169	0.59%
Cu 327.393†	102059.8	0.7099 mg/L	0.00319	0.7099 mg/L	0.00319	0.45%
Fe 238.204†	842909.1	333.9 mg/L	1.42	333.9 mg/L	1.42	0.42%
K 766.490†	107015.8	34.37 mg/L	0.019	34.37 mg/L	0.019	0.05%
Mg 285.213†	1366540.5	142.1 mg/L	0.28	142.1 mg/L	0.28	0.20%
Mn 257.610†	353241.9	12.43 mg/L	0.055	12.43 mg/L	0.055	0.44%
Mo 202.031†	-57.0	-0.0030 mg/L	0.00028	-0.0030 mg/L	0.00028	9.13%
Na 589.592†	10558.9	1.264 mg/L	0.0224	1.264 mg/L	0.0224	1.77%
Ni 231.604†	9718.9	0.3418 mg/L	0.00235	0.3418 mg/L	0.00235	0.69%
Pb 220.353†	6139.4	0.7185 mg/L	0.00444	0.7185 mg/L	0.00444	0.62%
Sb 206.836†	-3.5	0.0099 mg/L	0.00243	0.0099 mg/L	0.00243	24.52%
Se 196.026†	24.4	-0.0372 mg/L	0.00792	-0.0372 mg/L	0.00792	21.29%
Sn 189.927†	-231.1	-0.0389 mg/L	0.00143	-0.0389 mg/L	0.00143	3.67%
Ti 337.279†	39660.0	2.048 mg/L	0.0348	2.048 mg/L	0.0348	1.70%
Tl 351.924†	-2091.4	-0.0054 mg/L	0.00084	-0.0054 mg/L	0.00084	15.50%
V 290.880†	55639.2	0.3247 mg/L	0.00097	0.3247 mg/L	0.00097	0.30%
Zn 206.200†	88933.7	1.938 mg/L	0.0100	1.938 mg/L	0.0100	0.52%
Zr 343.823†	32860.8	0.0893 mg/L	0.00012	0.0893 mg/L	0.00012	0.14%

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Sequence No.: 57
Sample ID: 24E1437-04
Analyst: 24E1437-03
Initial Sample Wt: -JLC 05/23/24
Dilution:
Wash Time: 110

Autosampler Location: 74
Date Collected: 5/22/2024 8:42:42 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: 24E1437-04

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y axial	3754908.0	89.97	%	0.295				0.33%
Y radial	187869.9	91.01	%	1.551				1.70%
Ag 328.068†	-6213.0	-0.0185	mg/L	0.00082	-0.0185	mg/L	0.00082	4.45%
Al 396.153†	1033439.9	270.1	mg/L	0.66	270.1	mg/L	0.66	0.24%
As 188.979†	-56.3	0.1234	mg/L	0.00448	0.1234	mg/L	0.00448	3.63%
B 208.889†	1306.7	0.0924	mg/L	0.00096	0.0924	mg/L	0.00096	1.04%
Ba 233.527†	242181.8	1.931	mg/L	0.0066	1.931	mg/L	0.0066	0.34%
Be 313.107†	6443.1	0.0131	mg/L	0.00033	0.0131	mg/L	0.00033	2.55%
Ca 317.933†	845482.1	120.6	mg/L	0.22	120.6	mg/L	0.22	0.18%
Cd 228.802†	157.2	0.0085	mg/L	0.00020	0.0085	mg/L	0.00020	2.30%
Co 228.616†	14083.6	0.1880	mg/L	0.00118	0.1880	mg/L	0.00118	0.63%
Cr 267.716†	31357.6	0.3332	mg/L	0.00210	0.3332	mg/L	0.00210	0.63%
Cu 327.393†	98670.8	0.6863	mg/L	0.00112	0.6863	mg/L	0.00112	0.16%
Fe 238.204†	1090908.8	432.2	mg/L	1.27	432.2	mg/L	1.27	0.29%
K 766.490†	73110.0	23.48	mg/L	0.062	23.48	mg/L	0.062	0.27%
Mg 285.213†	914785.1	95.31	mg/L	0.217	95.31	mg/L	0.217	0.23%
Mn 257.610†	327439.0	11.53	mg/L	0.037	11.53	mg/L	0.037	0.32%
Mo 202.031†	-166.6	-0.0088	mg/L	0.00030	-0.0088	mg/L	0.00030	3.39%
Na 589.592†	10069.0	1.206	mg/L	0.0187	1.206	mg/L	0.0187	1.55%
Ni 231.604†	12468.2	0.4385	mg/L	0.00121	0.4385	mg/L	0.00121	0.28%
Pb 220.353†	23086.9	2.679	mg/L	0.0133	2.679	mg/L	0.0133	0.50%
Sb 206.836†	-39.1	0.0116	mg/L	0.00292	0.0116	mg/L	0.00292	25.16%
Se 196.026†	8.1	-0.0140	mg/L	0.00952	-0.0140	mg/L	0.00952	67.91%
Sn 189.927†	5467.1	0.9175	mg/L	0.00232	0.9175	mg/L	0.00232	0.25%
Ti 337.279†	34862.9	1.800	mg/L	0.0272	1.800	mg/L	0.0272	1.51%
Tl 351.924†	-2796.8	-0.0139	mg/L	0.00333	-0.0139	mg/L	0.00333	23.94%
V 290.880†	94294.6	0.5593	mg/L	0.00341	0.5593	mg/L	0.00341	0.61%
Zn 206.200†	131320.8	2.865	mg/L	0.0148	2.865	mg/L	0.0148	0.52%
Zr 343.823†	28410.8	0.0738	mg/L	0.00055	0.0738	mg/L	0.00055	0.74%

Sequence No.: 58
Sample ID: 24E1437-05
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

24E1437-04
-JLC 05/23/24

Autosampler Location: 75
Date Collected: 5/22/2024 8:47:18 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: 24E1437-05

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	3443375.9	82.51	%	0.803				0.97%
Y radial	178055.2	86.26	%	0.888				1.03%
Ag 328.068†	-7250.2	-0.0244	mg/L	0.00071	-0.0244	mg/L	0.00071	2.90%
Al 396.153†	933245.9	243.9	mg/L	0.75	243.9	mg/L	0.75	0.31%
As 188.979†	-43.9	0.1384	mg/L	0.00202	0.1384	mg/L	0.00202	1.46%
B 208.889†	756.1	0.0520	mg/L	0.00102	0.0520	mg/L	0.00102	1.96%
Ba 233.527†	194814.5	1.544	mg/L	0.0014	1.544	mg/L	0.0014	0.09%
Be 313.107†	5510.8	0.0105	mg/L	0.00034	0.0105	mg/L	0.00034	3.24%
Ca 317.933†	6303951.2	899.1	mg/L	4.03	899.1	mg/L	4.03	0.45%
Cd 228.802†	94.1	0.0075	mg/L	0.00015	0.0075	mg/L	0.00015	2.05%
Co 228.616†	13092.3	0.1754	mg/L	0.00237	0.1754	mg/L	0.00237	1.35%
Cr 267.716†	26412.9	0.2775	mg/L	0.00408	0.2775	mg/L	0.00408	1.47%
Cu 327.393†	75914.2	0.5281	mg/L	0.00280	0.5281	mg/L	0.00280	0.53%
Fe 238.204†	1062092.7	420.7	mg/L	1.64	420.7	mg/L	1.64	0.39%
K 766.490†	61648.1	19.80	mg/L	0.034	19.80	mg/L	0.034	0.17%
Mg 285.213†	2553817.8	265.3	mg/L	1.03	265.3	mg/L	1.03	0.39%
Mn 257.610†	488914.9	17.20	mg/L	0.064	17.20	mg/L	0.064	0.37%
Mo 202.031†	459.7	0.0244	mg/L	0.00039	0.0244	mg/L	0.00039	1.61%
Na 589.592†	10566.4	1.265	mg/L	0.0147	1.265	mg/L	0.0147	1.16%
Ni 231.604†	11409.1	0.4013	mg/L	0.00631	0.4013	mg/L	0.00631	1.57%
Pb 220.353†	12614.9	1.469	mg/L	0.0199	1.469	mg/L	0.0199	1.36%
Sb 206.836†	8.2	0.0174	mg/L	0.00199	0.0174	mg/L	0.00199	11.43%
Se 196.026†	28.4	-0.1143	mg/L	0.00388	-0.1143	mg/L	0.00388	3.40%
Sn 189.927†	-210.1	-0.0354	mg/L	0.00285	-0.0354	mg/L	0.00285	8.06%
Ti 337.279†	27759.5	1.433	mg/L	0.0155	1.433	mg/L	0.0155	1.08%
Tl 351.924†	-2834.0	-0.0242	mg/L	0.00535	-0.0242	mg/L	0.00535	22.13%
V 290.880†	104204.0	0.6220	mg/L	0.00159	0.6220	mg/L	0.00159	0.26%
Zn 206.200†	83012.9	1.801	mg/L	0.0030	1.801	mg/L	0.0030	0.17%
Zr 343.823†	31668.6	0.0837	mg/L	0.00025	0.0837	mg/L	0.00025	0.30%

Sequence No.: 59
Sample ID: 24E1437-06
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

24E1437-05
-JLC 05/23/24

Autosampler Location: 76
Date Collected: 5/22/2024 8:51:57 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: 24E1437-06

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	3834680.8	91.89	%	0.272				0.30%
Y radial	196797.0	95.33	%	0.417				0.44%
Ag 328.068†	-7295.5	-0.0229	mg/L	0.00032	-0.0229	mg/L	0.00032	1.40%
Al 396.153†	1225229.8	320.3	mg/L	0.77	320.3	mg/L	0.77	0.24%
As 188.979†	-154.6	0.0914	mg/L	0.00413	0.0914	mg/L	0.00413	4.52%
B 208.889†	806.1	0.0574	mg/L	0.00046	0.0574	mg/L	0.00046	0.80%
Ba 233.527†	235971.6	1.875	mg/L	0.0028	1.875	mg/L	0.0028	0.15%
Be 313.107†	6859.2	0.0146	mg/L	0.00023	0.0146	mg/L	0.00023	1.55%
Ca 317.933†	599847.8	85.55	mg/L	0.233	85.55	mg/L	0.233	0.27%
Cd 228.802†	-191.7	0.0060	mg/L	0.00033	0.0060	mg/L	0.00033	5.48%
Co 228.616†	17563.3	0.2351	mg/L	0.00037	0.2351	mg/L	0.00037	0.16%
Cr 267.716†	34439.3	0.3668	mg/L	0.00057	0.3668	mg/L	0.00057	0.15%
Cu 327.393†	110831.6	0.7709	mg/L	0.00258	0.7709	mg/L	0.00258	0.34%
Fe 238.204†	1178372.3	466.8	mg/L	1.26	466.8	mg/L	1.26	0.27%
K 766.490†	58373.5	18.75	mg/L	0.068	18.75	mg/L	0.068	0.36%
Mg 285.213†	842541.5	87.84	mg/L	0.238	87.84	mg/L	0.238	0.27%

Mn 257.610†	300885.5	10.60	mg/L	0.039	10.60	mg/L	0.039	0.37%
Mo 202.031†	-263.0	-0.0140	mg/L	0.00068	-0.0140	mg/L	0.00068	4.87%
Na 589.592†	8503.1	1.018	mg/L	0.0062	1.018	mg/L	0.0062	0.61%
Ni 231.604†	15311.3	0.5385	mg/L	0.00017	0.5385	mg/L	0.00017	0.03%
Pb 220.353†	7954.2	0.9404	mg/L	0.00315	0.9404	mg/L	0.00315	0.34%
Sb 206.836†	-47.6	0.0054	mg/L	0.00162	0.0054	mg/L	0.00162	29.77%
Se 196.026†	6.5	-0.0087	mg/L	0.00638	-0.0087	mg/L	0.00638	73.18%
Sn 189.927†	-65.2	-0.0111	mg/L	0.00169	-0.0111	mg/L	0.00169	15.28%
Ti 337.279†	37183.9	1.920	mg/L	0.0044	1.920	mg/L	0.0044	0.23%
Tl 351.924†	-3171.3	-0.0297	mg/L	0.00328	-0.0297	mg/L	0.00328	11.03%
V 290.880†	78860.5	0.4603	mg/L	0.00078	0.4603	mg/L	0.00078	0.17%
Zn 206.200†	89871.6	1.950	mg/L	0.0011	1.950	mg/L	0.0011	0.05%
Zr 343.823†	36675.2	0.0974	mg/L	0.00069	0.0974	mg/L	0.00069	0.71%

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Sequence No.: 60
Sample ID: 24E1437-07
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 77
Date Collected: 5/22/2024 8:56:33 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: 24E1437-07

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	3749701.3	89.85	%	1.241				1.38%
Y radial	195117.1	94.52	%	1.483				1.57%
Ag 328.068†	-8661.3	-0.0279	mg/L	0.00016	-0.0279	mg/L	0.00016	0.58%
Al 396.153†	1348528.4	352.5	mg/L	2.99	352.5	mg/L	2.99	0.85%
As 188.979†	-171.4	0.1196	mg/L	0.00240	0.1196	mg/L	0.00240	2.01%
B 208.889†	1770.7	0.1246	mg/L	0.00231	0.1246	mg/L	0.00231	1.86%
Ba 233.527†	424505.7	3.410	mg/L	0.0171	3.410	mg/L	0.0171	0.50%
Be 313.107†	10350.7	0.0227	mg/L	0.00015	0.0227	mg/L	0.00015	0.64%
Ca 317.933†	639188.8	91.17	mg/L	0.882	91.17	mg/L	0.882	0.97%
Cd 228.802†	-318.2	0.0064	mg/L	0.00029	0.0064	mg/L	0.00029	4.46%
Co 228.616†	25534.9	0.3418	mg/L	0.00430	0.3418	mg/L	0.00430	1.26%
Cr 267.716†	50470.5	0.5373	mg/L	0.00288	0.5373	mg/L	0.00288	0.54%
Cu 327.393†	273347.3	1.901	mg/L	0.0099	1.901	mg/L	0.0099	0.52%
Fe 238.204†	1416777.1	561.3	mg/L	5.83	561.3	mg/L	5.83	1.04%
K 766.490†	108750.8	34.93	mg/L	0.263	34.93	mg/L	0.263	0.75%
Mg 285.213†	1084200.5	113.0	mg/L	1.13	113.0	mg/L	1.13	1.00%
Mn 257.610†	454865.4	16.02	mg/L	0.156	16.02	mg/L	0.156	0.98%
Mo 202.031†	5.7	0.0003	mg/L	0.00048	0.0003	mg/L	0.00048	158.23%
Na 589.592†	12176.0	1.458	mg/L	0.0115	1.458	mg/L	0.0115	0.79%
Ni 231.604†	31813.1	1.119	mg/L	0.0159	1.119	mg/L	0.0159	1.42%
Pb 220.353†	36813.7	4.264	mg/L	0.0558	4.264	mg/L	0.0558	1.31%
Sb 206.836†	-62.8	0.0043	mg/L	0.00072	0.0043	mg/L	0.00072	16.88%
Se 196.026†	1.6	-0.0164	mg/L	0.00218	-0.0164	mg/L	0.00218	13.30%
Sn 189.927†	784.5	0.1315	mg/L	0.00297	0.1315	mg/L	0.00297	2.26%
Ti 337.279†	53391.0	2.757	mg/L	0.0195	2.757	mg/L	0.0195	0.71%
Tl 351.924†	-3906.6	-0.0468	mg/L	0.00170	-0.0468	mg/L	0.00170	3.62%
V 290.880†	95156.4	0.5557	mg/L	0.00275	0.5557	mg/L	0.00275	0.49%
Zn 206.200†	204978.0	4.480	mg/L	0.0272	4.480	mg/L	0.0272	0.61%
Zr 343.823†	47009.9	0.1258	mg/L	0.00049	0.1258	mg/L	0.00049	0.39%

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Sequence No.: 61
Sample ID: SEQ-CCV@ 23J0975
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 230

Autosampler Location: 5
Date Collected: 5/22/2024 9:03:10 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	3889835.1	93.21	%	0.736				0.79%
Y radial	186067.6	90.14	%	1.158				1.28%

Ag 328.068†	575048.0	2.468 mg/L	0.0125	2.468 mg/L	0.0125	0.51%
QC value within limits for Ag 328.068 Recovery = 98.73%						
Al 396.153†	38268.3	9.740 mg/L	0.0445	9.740 mg/L	0.0445	0.46%
QC value within limits for Al 396.153 Recovery = 97.40%						
As 188.979†	10950.2	4.764 mg/L	0.0437	4.764 mg/L	0.0437	0.92%
QC value within limits for As 188.979 Recovery = 95.28%						
B 208.889†	68553.4	4.576 mg/L	0.0075	4.576 mg/L	0.0075	0.16%
QC value within limits for B 208.889 Recovery = 91.52%						
Ba 233.527†	616174.4	5.065 mg/L	0.0275	5.065 mg/L	0.0275	0.54%
QC value within limits for Ba 233.527 Recovery = 101.30%						
Be 313.107†	1979212.3	4.869 mg/L	0.0742	4.869 mg/L	0.0742	1.52%
QC value within limits for Be 313.107 Recovery = 97.37%						
Ca 317.933†	70138.6	10.00 mg/L	0.036	10.00 mg/L	0.036	0.36%
QC value within limits for Ca 317.933 Recovery = 100.04%						
Cd 228.802†	426195.3	5.004 mg/L	0.0226	5.004 mg/L	0.0226	0.45%
QC value within limits for Cd 228.802 Recovery = 100.07%						
Co 228.616†	367926.0	5.017 mg/L	0.0261	5.017 mg/L	0.0261	0.52%
QC value within limits for Co 228.616 Recovery = 100.34%						
Cr 267.716†	464553.9	5.008 mg/L	0.0252	5.008 mg/L	0.0252	0.50%
QC value within limits for Cr 267.716 Recovery = 100.17%						
Cu 327.393†	675730.4	4.715 mg/L	0.0197	4.715 mg/L	0.0197	0.42%
QC value within limits for Cu 327.393 Recovery = 94.30%						
Fe 238.204†	12522.1	4.987 mg/L	0.0385	4.987 mg/L	0.0385	0.77%
QC value within limits for Fe 238.204 Recovery = 99.74%						
K 766.490†	30416.6	9.769 mg/L	0.0550	9.769 mg/L	0.0550	0.56%
QC value within limits for K 766.490 Recovery = 97.69%						
Mg 285.213†	95946.0	9.940 mg/L	0.0588	9.940 mg/L	0.0588	0.59%
QC value within limits for Mg 285.213 Recovery = 99.40%						
Mn 257.610†	139915.8	4.914 mg/L	0.0208	4.914 mg/L	0.0208	0.42%
QC value within limits for Mn 257.610 Recovery = 98.27%						
Mo 202.031†	93297.3	4.951 mg/L	0.0125	4.951 mg/L	0.0125	0.25%
QC value within limits for Mo 202.031 Recovery = 99.02%						
Na 589.592†	82772.4	9.912 mg/L	0.1587	9.912 mg/L	0.1587	1.60%
QC value within limits for Na 589.592 Recovery = 99.12%						
Ni 231.604†	141538.5	4.975 mg/L	0.0284	4.975 mg/L	0.0284	0.57%
QC value within limits for Ni 231.604 Recovery = 99.50%						
Pb 220.353†	42951.5	4.952 mg/L	0.0562	4.952 mg/L	0.0562	1.13%
QC value within limits for Pb 220.353 Recovery = 99.05%						
Sb 206.836†	21849.7	4.721 mg/L	0.0418	4.721 mg/L	0.0418	0.88%
QC value within limits for Sb 206.836 Recovery = 94.42%						
Se 196.026†	6308.4	4.811 mg/L	0.0459	4.811 mg/L	0.0459	0.95%
QC value within limits for Se 196.026 Recovery = 96.22%						
Sn 189.927†	29337.5	4.919 mg/L	0.0481	4.919 mg/L	0.0481	0.98%
QC value within limits for Sn 189.927 Recovery = 98.38%						
Ti 337.279†	94027.2	4.852 mg/L	0.0149	4.852 mg/L	0.0149	0.31%
QC value within limits for Ti 337.279 Recovery = 97.04%						
Tl 351.924†	23414.9	2.353 mg/L	0.0202	2.353 mg/L	0.0202	0.86%
QC value within limits for Tl 351.924 Recovery = 94.13%						
V 290.880†	815656.3	5.103 mg/L	0.0164	5.103 mg/L	0.0164	0.32%
QC value within limits for V 290.880 Recovery = 102.05%						
Zn 206.200†	230536.4	5.103 mg/L	0.0256	5.103 mg/L	0.0256	0.50%
QC value within limits for Zn 206.200 Recovery = 102.06%						
Zr 343.823†	1642277.1	4.861 mg/L	0.0196	4.861 mg/L	0.0196	0.40%

All analyte(s) passed QC.

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Sequence No.: 62 **Autosampler Location: 1**
Sample ID: SEQ-CCB@ 23J0970 **Date Collected: 5/22/2024 9:09:48 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 230 **Auto Dilution Factor: 1**

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	3994696.7	95.72	%	1.250				1.31%
Y radial	187200.0	90.69	%	1.559				1.72%
Ag 328.068†	560.8	0.0024	mg/L	0.00040	0.0024	mg/L	0.00040	16.63%

QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153†	77.3	0.0201 mg/L	0.00343	0.0201 mg/L	0.00343	17.02%
QC value within limits for Al 396.153 Recovery = Not calculated						
As 188.979†	0.5	0.0002 mg/L	0.00061	0.0002 mg/L	0.00061	251.59%
QC value within limits for As 188.979 Recovery = Not calculated						
B 208.889†	238.9	0.0167 mg/L	0.00102	0.0167 mg/L	0.00102	6.13%
QC value within limits for B 208.889 Recovery = Not calculated						
Ba 233.527†	37.9	0.0003 mg/L	0.00007	0.0003 mg/L	0.00007	24.66%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-16.2	-0.0000 mg/L	0.00004	-0.0000 mg/L	0.00004	132.55%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933†	95.2	0.0136 mg/L	0.00430	0.0136 mg/L	0.00430	31.68%
QC value within limits for Ca 317.933 Recovery = Not calculated						
Cd 228.802†	28.1	0.0003 mg/L	0.00012	0.0003 mg/L	0.00012	36.50%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	-97.1	-0.0013 mg/L	0.00005	-0.0013 mg/L	0.00005	3.47%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-239.2	-0.0026 mg/L	0.00008	-0.0026 mg/L	0.00008	2.97%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 327.393†	2071.6	0.0144 mg/L	0.00070	0.0144 mg/L	0.00070	4.83%
QC value greater than the upper limit for Cu 327.393 Recovery = Not calculated SOIL OK- JLC 05/23/24						
Fe 238.204†	104.2	0.0413 mg/L	0.00756	0.0413 mg/L	0.00756	18.33%
QC value within limits for Fe 238.204 Recovery = Not calculated						
K 766.490†	93.4	0.0300 mg/L	0.01391	0.0300 mg/L	0.01391	46.40%
QC value within limits for K 766.490 Recovery = Not calculated						
Mg 285.213†	-324.1	-0.0336 mg/L	0.00242	-0.0336 mg/L	0.00242	7.21%
QC value within limits for Mg 285.213 Recovery = Not calculated						
Mn 257.610†	-10.6	-0.0004 mg/L	0.00033	-0.0004 mg/L	0.00033	89.19%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	37.2	0.0020 mg/L	0.00017	0.0020 mg/L	0.00017	8.68%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592†	48.3	0.0058 mg/L	0.00129	0.0058 mg/L	0.00129	22.36%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	-92.8	-0.0033 mg/L	0.00017	-0.0033 mg/L	0.00017	5.11%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	3.1	0.0003 mg/L	0.00066	0.0003 mg/L	0.00066	197.73%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	-0.7	-0.0001 mg/L	0.00022	-0.0001 mg/L	0.00022	235.68%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	0.3	0.0002 mg/L	0.00183	0.0002 mg/L	0.00183	806.88%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	7.0	0.0012 mg/L	0.00021	0.0012 mg/L	0.00021	18.35%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	25.5	0.0013 mg/L	0.00013	0.0013 mg/L	0.00013	9.85%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 351.924†	-1.4	-0.0001 mg/L	0.00531	-0.0001 mg/L	0.00531	>999.9%
QC value within limits for Tl 351.924 Recovery = Not calculated						
V 290.880†	-346.2	-0.0022 mg/L	0.00075	-0.0022 mg/L	0.00075	34.44%
QC value within limits for V 290.880 Recovery = Not calculated						
Zn 206.200†	199.4	0.0044 mg/L	0.00043	0.0044 mg/L	0.00043	9.96%
QC value within limits for Zn 206.200 Recovery = Not calculated						
Zr 343.823†	-50.5	-0.0002 mg/L	0.00007	-0.0002 mg/L	0.00007	48.73%

QC Failed. Continue with analysis.

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Sequence No.: 63 **Autosampler Location: 78**
Sample ID: 24E1437-08 **Date Collected: 5/22/2024 9:15:19 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 110 **Auto Dilution Factor: 1**

Mean Data: 24E1437-08

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	3670856.9	87.96	%	0.345				0.39%
Y radial	188842.6	91.48	%	1.361				1.49%
Ag 328.068†	-7157.0	-0.0215	mg/L	0.00052	-0.0215	mg/L	0.00052	2.40%
Al 396.153†	1451659.9	379.4	mg/L	5.16	379.4	mg/L	5.16	1.36%

As 188.979†	-135.7	0.1536 mg/L	0.00385	0.1536 mg/L	0.00385	2.51%
B 208.889†	1160.6	0.0825 mg/L	0.00170	0.0825 mg/L	0.00170	2.06%
Ba 233.527†	398525.6	3.191 mg/L	0.0031	3.191 mg/L	0.0031	0.10%
Be 313.107†	8807.5	0.0188 mg/L	0.00010	0.0188 mg/L	0.00010	0.56%
Ca 317.933†	1657277.2	236.4 mg/L	3.23	236.4 mg/L	3.23	1.37%
Cd 228.802†	-344.3	0.0064 mg/L	0.00016	0.0064 mg/L	0.00016	2.47%
Co 228.616†	24922.6	0.3326 mg/L	0.00121	0.3326 mg/L	0.00121	0.36%
Cr 267.716†	46300.7	0.4906 mg/L	0.00037	0.4906 mg/L	0.00037	0.08%
Cu 327.393†	640228.5	4.451 mg/L	0.0050	4.451 mg/L	0.0050	0.11%
Fe 238.204†	1522570.0	603.2 mg/L	8.08	603.2 mg/L	8.08	1.34%
K 766.490†	110604.3	35.52 mg/L	0.505	35.52 mg/L	0.505	1.42%
Mg 285.213†	1403964.2	146.2 mg/L	2.12	146.2 mg/L	2.12	1.45%
Mn 257.610†	567438.7	19.97 mg/L	0.256	19.97 mg/L	0.256	1.28%
Mo 202.031†	-301.9	-0.0160 mg/L	0.00087	-0.0160 mg/L	0.00087	5.41%
Na 589.592†	13542.1	1.622 mg/L	0.0062	1.622 mg/L	0.0062	0.38%
Ni 231.604†	39612.9	1.393 mg/L	0.0034	1.393 mg/L	0.0034	0.24%
Pb 220.353†	25215.2	2.924 mg/L	0.0092	2.924 mg/L	0.0092	0.32%
Sb 206.836†	-4.5	0.0218 mg/L	0.00388	0.0218 mg/L	0.00388	17.82%
Se 196.026†	-1.5	-0.0400 mg/L	0.00977	-0.0400 mg/L	0.00977	24.46%
Sn 189.927†	2851.3	0.4784 mg/L	0.00132	0.4784 mg/L	0.00132	0.28%
Ti 337.279†	58241.2	3.007 mg/L	0.0110	3.007 mg/L	0.0110	0.37%
Tl 351.924†	-4227.6	-0.0534 mg/L	0.00897	-0.0534 mg/L	0.00897	16.78%
V 290.880†	99513.1	0.5800 mg/L	0.00159	0.5800 mg/L	0.00159	0.27%
Zn 206.200†	145273.7	3.161 mg/L	0.0050	3.161 mg/L	0.0050	0.16%
Zr 343.823†	57098.7	0.1546 mg/L	0.00096	0.1546 mg/L	0.00096	0.62%

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Sequence No.: 64 **Autosampler Location: 79**
Sample ID: 24E1437-09 **Date Collected: 5/22/2024 9:21:57 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 230 **Auto Dilution Factor: 1**

Mean Data: 24E1437-09

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	3687532.0	88.36	%	0.228				0.26%
Y radial	187472.1	90.82	%	1.118				1.23%
Ag 328.068†	-10502.9	-0.0347	mg/L	0.00024	-0.0347	mg/L	0.00024	0.69%
Al 396.153†	1472397.1	384.9	mg/L	4.35	384.9	mg/L	4.35	1.13%
As 188.979†	-139.9	0.1597	mg/L	0.00310	0.1597	mg/L	0.00310	1.94%
B 208.889†	1107.3	0.0790	mg/L	0.00092	0.0790	mg/L	0.00092	1.17%
Ba 233.527†	344586.0	2.744	mg/L	0.0058	2.744	mg/L	0.0058	0.21%
Be 313.107†	8125.4	0.0171	mg/L	0.00016	0.0171	mg/L	0.00016	0.96%
Ca 317.933†	2031167.3	289.7	mg/L	4.61	289.7	mg/L	4.61	1.59%
Cd 228.802†	-185.8	0.0084	mg/L	0.00028	0.0084	mg/L	0.00028	3.35%
Co 228.616†	23329.1	0.3123	mg/L	0.00063	0.3123	mg/L	0.00063	0.20%
Cr 267.716†	45107.3	0.4789	mg/L	0.00162	0.4789	mg/L	0.00162	0.34%
Cu 327.393†	153299.7	1.066	mg/L	0.0020	1.066	mg/L	0.0020	0.19%
Fe 238.204†	1615086.0	639.8	mg/L	9.06	639.8	mg/L	9.06	1.42%
K 766.490†	115686.0	37.16	mg/L	0.471	37.16	mg/L	0.471	1.27%
Mg 285.213†	1456467.2	151.7	mg/L	1.93	151.7	mg/L	1.93	1.27%
Mn 257.610†	494595.0	17.42	mg/L	0.249	17.42	mg/L	0.249	1.43%
Mo 202.031†	-384.6	-0.0204	mg/L	0.00049	-0.0204	mg/L	0.00049	2.42%
Na 589.592†	12002.1	1.437	mg/L	0.0073	1.437	mg/L	0.0073	0.51%
Ni 231.604†	20485.1	0.7204	mg/L	0.00192	0.7204	mg/L	0.00192	0.27%
Pb 220.353†	17243.0	2.012	mg/L	0.0080	2.012	mg/L	0.0080	0.40%
Sb 206.836†	-62.7	0.0084	mg/L	0.00261	0.0084	mg/L	0.00261	31.24%
Se 196.026†	-4.6	-0.0470	mg/L	0.00057	-0.0470	mg/L	0.00057	1.21%
Sn 189.927†	-53.1	-0.0091	mg/L	0.00067	-0.0091	mg/L	0.00067	7.40%
Ti 337.279†	49645.4	2.563	mg/L	0.0054	2.563	mg/L	0.0054	0.21%
Tl 351.924†	-4425.6	-0.0483	mg/L	0.00599	-0.0483	mg/L	0.00599	12.39%
V 290.880†	98494.5	0.5708	mg/L	0.00278	0.5708	mg/L	0.00278	0.49%
Zn 206.200†	125906.9	2.732	mg/L	0.0112	2.732	mg/L	0.0112	0.41%
Zr 343.823†	58892.2	0.1591	mg/L	0.00025	0.1591	mg/L	0.00025	0.16%

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Sequence No.: 65 **Autosampler Location: 80**

Sample ID: 24E1437-10
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 230

Date Collected: 5/22/2024 9:28:34 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: 24E1437-10

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y axial	3712088.1	88.95	%	0.547				0.62%
Y radial	188394.2	91.26	%	0.288				0.32%
Ag 328.068†	-10767.2	-0.0362	mg/L	0.00089	-0.0362	mg/L	0.00089	2.47%
Al 396.153†	1501192.3	392.4	mg/L	1.75	392.4	mg/L	1.75	0.44%
As 188.979†	-214.1	0.1299	mg/L	0.00142	0.1299	mg/L	0.00142	1.09%
B 208.889†	919.1	0.0659	mg/L	0.00170	0.0659	mg/L	0.00170	2.58%
Ba 233.527†	336249.0	2.673	mg/L	0.0156	2.673	mg/L	0.0156	0.58%
Be 313.107†	8140.9	0.0171	mg/L	0.00025	0.0171	mg/L	0.00025	1.44%
Ca 317.933†	1666830.9	237.7	mg/L	0.90	237.7	mg/L	0.90	0.38%
Cd 228.802†	-202.8	0.0091	mg/L	0.00020	0.0091	mg/L	0.00020	2.17%
Co 228.616†	22841.6	0.3059	mg/L	0.00235	0.3059	mg/L	0.00235	0.77%
Cr 267.716†	45945.2	0.4865	mg/L	0.00283	0.4865	mg/L	0.00283	0.58%
Cu 327.393†	142200.7	0.9892	mg/L	0.00240	0.9892	mg/L	0.00240	0.24%
Fe 238.204†	1658158.8	656.9	mg/L	2.26	656.9	mg/L	2.26	0.34%
K 766.490†	108037.1	34.70	mg/L	0.142	34.70	mg/L	0.142	0.41%
Mg 285.213†	1563142.3	162.8	mg/L	0.54	162.8	mg/L	0.54	0.33%
Mn 257.610†	587420.9	20.68	mg/L	0.097	20.68	mg/L	0.097	0.47%
Mo 202.031†	-462.8	-0.0246	mg/L	0.00076	-0.0246	mg/L	0.00076	3.08%
Na 589.592†	11234.3	1.345	mg/L	0.0043	1.345	mg/L	0.0043	0.32%
Ni 231.604†	20714.1	0.7285	mg/L	0.00432	0.7285	mg/L	0.00432	0.59%
Pb 220.353†	13852.5	1.622	mg/L	0.0074	1.622	mg/L	0.0074	0.45%
Sb 206.836†	-70.2	0.0073	mg/L	0.00169	0.0073	mg/L	0.00169	23.22%
Se 196.026†	1.5	-0.0396	mg/L	0.00171	-0.0396	mg/L	0.00171	4.32%
Sn 189.927†	-134.7	-0.0228	mg/L	0.00053	-0.0228	mg/L	0.00053	2.33%
Ti 337.279†	46728.1	2.413	mg/L	0.0063	2.413	mg/L	0.0063	0.26%
Tl 351.924†	-4617.1	-0.0564	mg/L	0.00281	-0.0564	mg/L	0.00281	4.99%
V 290.880†	100430.0	0.5816	mg/L	0.00077	0.5816	mg/L	0.00077	0.13%
Zn 206.200†	122453.0	2.655	mg/L	0.0215	2.655	mg/L	0.0215	0.81%
Zr 343.823†	60215.5	0.1626	mg/L	0.00073	0.1626	mg/L	0.00073	0.45%

Sequence No.: 66
Sample ID: 24E1437-11
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 230

Autosampler Location: 81
Date Collected: 5/22/2024 9:35:10 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: 24E1437-11

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y axial	3653053.0	87.53	%	0.611				0.70%
Y radial	184890.7	89.57	%	1.669				1.86%
Ag 328.068†	-11876.7	-0.0381	mg/L	0.00081	-0.0381	mg/L	0.00081	2.12%
Al 396.153†	1435665.0	375.3	mg/L	9.14	375.3	mg/L	9.14	2.44%
As 188.979†	-169.1	0.1648	mg/L	0.00934	0.1648	mg/L	0.00934	5.67%
B 208.889†	2234.9	0.1568	mg/L	0.00115	0.1568	mg/L	0.00115	0.74%
Ba 233.527†	957642.2	7.763	mg/L	0.0308	7.763	mg/L	0.0308	0.40%
Be 313.107†	11975.7	0.0266	mg/L	0.00026	0.0266	mg/L	0.00026	0.98%
Ca 317.933†	1630085.4	232.5	mg/L	6.01	232.5	mg/L	6.01	2.59%
Cd 228.802†	2407.1	0.0415	mg/L	0.00018	0.0415	mg/L	0.00018	0.45%
Co 228.616†	28779.3	0.3860	mg/L	0.00284	0.3860	mg/L	0.00284	0.74%
Cr 267.716†	249331.4	2.680	mg/L	0.0092	2.680	mg/L	0.0092	0.34%
Cu 327.393†	389673.3	2.710	mg/L	0.0003	2.710	mg/L	0.0003	0.01%
Fe 238.204†	1849320.8	732.6	mg/L	17.68	732.6	mg/L	17.68	2.41%
K 766.490†	132982.7	42.71	mg/L	1.019	42.71	mg/L	1.019	2.39%
Mg 285.213†	1233316.3	128.6	mg/L	3.14	128.6	mg/L	3.14	2.44%
Mn 257.610†	444461.2	15.67	mg/L	0.377	15.67	mg/L	0.377	2.41%
Mo 202.031†	202.4	0.0107	mg/L	0.00047	0.0107	mg/L	0.00047	4.36%

Na 589.592†	14644.8	1.754	mg/L	0.0068	1.754	mg/L	0.0068	0.39%
Ni 231.604†	42344.8	1.489	mg/L	0.0146	1.489	mg/L	0.0146	0.98%
Pb 220.353†	603050.7	69.49	mg/L	0.292	69.49	mg/L	0.292	0.42%
Sb 206.836†	69.1	0.0005	mg/L	0.00246	0.0005	mg/L	0.00246	517.12%
Se 196.026†	7.5	-0.0237	mg/L	0.00911	-0.0237	mg/L	0.00911	38.45%
Sn 189.927†	1628.6	0.2732	mg/L	0.00381	0.2732	mg/L	0.00381	1.39%
Ti 337.279†	54229.0	2.800	mg/L	0.0149	2.800	mg/L	0.0149	0.53%
Tl 351.924†	-5131.6	-0.0611	mg/L	0.01325	-0.0611	mg/L	0.01325	21.70%
V 290.880†	100551.1	0.5770	mg/L	0.00368	0.5770	mg/L	0.00368	0.64%
Zn 206.200†	609054.5	13.38	mg/L	0.054	13.38	mg/L	0.054	0.40%
Zr 343.823†	56000.6	0.1483	mg/L	0.00096	0.1483	mg/L	0.00096	0.65%

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Sequence No.: 67 **Autosampler Location: 82**
Sample ID: 24E1437-12 **Date Collected: 5/22/2024 9:41:46 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 230 **Auto Dilution Factor: 1**

Mean Data: 24E1437-12

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	3683409.6	88.26	%	0.758				0.86%
Y radial	191358.8	92.70	%	0.902				0.97%
Ag 328.068†	-13906.8	-0.0468	mg/L	0.00147	-0.0468	mg/L	0.00147	3.14%
Al 396.153†	1719446.9	449.4	mg/L	5.65	449.4	mg/L	5.65	1.26%
As 188.979†	-209.7	0.1681	mg/L	0.00423	0.1681	mg/L	0.00423	2.52%
B 208.889†	1442.0	0.1024	mg/L	0.00238	0.1024	mg/L	0.00238	2.32%
Ba 233.527†	1189274.3	9.655	mg/L	0.0401	9.655	mg/L	0.0401	0.42%
Be 313.107†	12147.9	0.0265	mg/L	0.00014	0.0265	mg/L	0.00014	0.54%
Ca 317.933†	2108941.7	300.8	mg/L	3.76	300.8	mg/L	3.76	1.25%
Cd 228.802†	7219.0	0.1000	mg/L	0.00134	0.1000	mg/L	0.00134	1.34%
Co 228.616†	31999.2	0.4290	mg/L	0.00478	0.4290	mg/L	0.00478	1.11%
Cr 267.716†	345798.7	3.717	mg/L	0.0172	3.717	mg/L	0.0172	0.46%
Cu 327.393†	266372.9	1.853	mg/L	0.0070	1.853	mg/L	0.0070	0.38%
Fe 238.204†	2005458.2	794.5	mg/L	9.76	794.5	mg/L	9.76	1.23%
K 766.490†	139250.6	44.72	mg/L	0.556	44.72	mg/L	0.556	1.24%
Mg 285.213†	1591667.4	165.8	mg/L	1.94	165.8	mg/L	1.94	1.17%
Mn 257.610†	601148.2	21.17	mg/L	0.273	21.17	mg/L	0.273	1.29%
Mo 202.031†	-338.2	-0.0179	mg/L	0.00051	-0.0179	mg/L	0.00051	2.81%
Na 589.592†	17036.4	2.040	mg/L	0.0060	2.040	mg/L	0.0060	0.29%
Ni 231.604†	32712.7	1.150	mg/L	0.0115	1.150	mg/L	0.0115	1.00%
Pb 220.353†	750144.8	86.45	mg/L	0.361	86.45	mg/L	0.361	0.42%
Sb 206.836†	101.5	-0.0107	mg/L	0.00327	-0.0107	mg/L	0.00327	30.50%
Se 196.026†	-2.7	-0.0454	mg/L	0.00483	-0.0454	mg/L	0.00483	10.64%
Sn 189.927†	341.4	0.0571	mg/L	0.00284	0.0571	mg/L	0.00284	4.97%
Ti 337.279†	65556.9	3.385	mg/L	0.0210	3.385	mg/L	0.0210	0.62%
Tl 351.924†	-5938.2	-0.1059	mg/L	0.00521	-0.1059	mg/L	0.00521	4.93%
V 290.880†	117587.1	0.6794	mg/L	0.00232	0.6794	mg/L	0.00232	0.34%
Zn 206.200†	945075.3	20.79	mg/L	0.100	20.79	mg/L	0.100	0.48%
Zr 343.823†	71292.5	0.1921	mg/L	0.00072	0.1921	mg/L	0.00072	0.37%

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Sequence No.: 68 **Autosampler Location: 83**
Sample ID: 24E1437-13 **Date Collected: 5/22/2024 9:48:24 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 230 **Auto Dilution Factor: 1**

Mean Data: 24E1437-13

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	3730710.2	89.39	%	0.550				0.62%
Y radial	193576.6	93.77	%	1.528				1.63%
Ag 328.068†	-8168.9	-0.0264	mg/L	0.00064	-0.0264	mg/L	0.00064	2.44%
Al 396.153†	1338613.5	349.9	mg/L	5.08	349.9	mg/L	5.08	1.45%

As 188.979†	-169.7	0.1119 mg/L	0.00200	0.1119 mg/L	0.00200	1.78%
B 208.889†	1390.4	0.0979 mg/L	0.00074	0.0979 mg/L	0.00074	0.75%
Ba 233.527†	361462.1	2.896 mg/L	0.0084	2.896 mg/L	0.0084	0.29%
Be 313.107†	8729.6	0.0189 mg/L	0.00006	0.0189 mg/L	0.00006	0.34%
Ca 317.933†	641219.7	91.45 mg/L	1.382	91.45 mg/L	1.382	1.51%
Cd 228.802†	-274.1	0.0062 mg/L	0.00015	0.0062 mg/L	0.00015	2.37%
Co 228.616†	21875.9	0.2923 mg/L	0.00083	0.2923 mg/L	0.00083	0.28%
Cr 267.716†	45748.8	0.4863 mg/L	0.00229	0.4863 mg/L	0.00229	0.47%
Cu 327.393†	193279.6	1.344 mg/L	0.0037	1.344 mg/L	0.0037	0.28%
Fe 238.204†	1351900.1	535.6 mg/L	8.11	535.6 mg/L	8.11	1.51%
K 766.490†	123393.2	39.63 mg/L	0.620	39.63 mg/L	0.620	1.56%
Mg 285.213†	1070788.6	111.6 mg/L	1.65	111.6 mg/L	1.65	1.48%
Mn 257.610†	459269.6	16.17 mg/L	0.256	16.17 mg/L	0.256	1.58%
Mo 202.031†	-19.2	-0.0010 mg/L	0.00059	-0.0010 mg/L	0.00059	57.63%
Na 589.592†	10368.0	1.242 mg/L	0.0105	1.242 mg/L	0.0105	0.84%
Ni 231.604†	23473.6	0.8254 mg/L	0.00294	0.8254 mg/L	0.00294	0.36%
Pb 220.353†	20866.6	2.428 mg/L	0.0086	2.428 mg/L	0.0086	0.35%
Sb 206.836†	-54.1	0.0055 mg/L	0.00204	0.0055 mg/L	0.00204	36.84%
Se 196.026†	13.2	-0.0082 mg/L	0.00274	-0.0082 mg/L	0.00274	33.55%
Sn 189.927†	411.8	0.0690 mg/L	0.00126	0.0690 mg/L	0.00126	1.82%
Ti 337.279†	51237.7	2.645 mg/L	0.0132	2.645 mg/L	0.0132	0.50%
Tl 351.924†	-3656.1	-0.0374 mg/L	0.00949	-0.0374 mg/L	0.00949	25.37%
V 290.880†	90674.0	0.5295 mg/L	0.00232	0.5295 mg/L	0.00232	0.44%
Zn 206.200†	146098.8	3.184 mg/L	0.0110	3.184 mg/L	0.0110	0.35%
Zr 343.823†	44069.7	0.1177 mg/L	0.00043	0.1177 mg/L	0.00043	0.37%

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Sequence No.: 69 **Autosampler Location: 84**
Sample ID: 24E1437-14 **Date Collected: 5/22/2024 9:55:00 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 230 **Auto Dilution Factor: 1**

Mean Data: 24E1437-14

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y axial	3768463.9	90.30	%	0.113				0.12%
Y radial	192725.5	93.36	%	1.119				1.20%
Ag 328.068†	-8841.0	-0.0285	mg/L	0.00062	-0.0285	mg/L	0.00062	2.19%
Al 396.153†	1492444.5	390.1	mg/L	2.55	390.1	mg/L	2.55	0.65%
As 188.979†	-172.3	0.1246	mg/L	0.00152	0.1246	mg/L	0.00152	1.22%
B 208.889†	1328.5	0.0939	mg/L	0.00097	0.0939	mg/L	0.00097	1.03%
Ba 233.527†	389672.5	3.123	mg/L	0.0078	3.123	mg/L	0.0078	0.25%
Be 313.107†	9516.8	0.0205	mg/L	0.00006	0.0205	mg/L	0.00006	0.29%
Ca 317.933†	623840.9	88.98	mg/L	0.733	88.98	mg/L	0.733	0.82%
Cd 228.802†	-302.6	0.0065	mg/L	0.00031	0.0065	mg/L	0.00031	4.79%
Co 228.616†	23425.6	0.3129	mg/L	0.00090	0.3129	mg/L	0.00090	0.29%
Cr 267.716†	49289.1	0.5241	mg/L	0.00085	0.5241	mg/L	0.00085	0.16%
Cu 327.393†	204946.3	1.425	mg/L	0.0058	1.425	mg/L	0.0058	0.40%
Fe 238.204†	1449704.4	574.3	mg/L	3.79	574.3	mg/L	3.79	0.66%
K 766.490†	126580.4	40.65	mg/L	0.266	40.65	mg/L	0.266	0.66%
Mg 285.213†	1174917.2	122.4	mg/L	0.86	122.4	mg/L	0.86	0.70%
Mn 257.610†	482840.0	17.00	mg/L	0.140	17.00	mg/L	0.140	0.83%
Mo 202.031†	-163.3	-0.0087	mg/L	0.00082	-0.0087	mg/L	0.00082	9.47%
Na 589.592†	11798.3	1.413	mg/L	0.0019	1.413	mg/L	0.0019	0.13%
Ni 231.604†	24649.7	0.8668	mg/L	0.00352	0.8668	mg/L	0.00352	0.41%
Pb 220.353†	20960.3	2.442	mg/L	0.0097	2.442	mg/L	0.0097	0.40%
Sb 206.836†	-60.8	0.0058	mg/L	0.00092	0.0058	mg/L	0.00092	15.88%
Se 196.026†	-0.1	-0.0191	mg/L	0.01133	-0.0191	mg/L	0.01133	59.16%
Sn 189.927†	986.4	0.1654	mg/L	0.00063	0.1654	mg/L	0.00063	0.38%
Ti 337.279†	56101.0	2.897	mg/L	0.0101	2.897	mg/L	0.0101	0.35%
Tl 351.924†	-3962.9	-0.0447	mg/L	0.00458	-0.0447	mg/L	0.00458	10.24%
V 290.880†	99961.1	0.5849	mg/L	0.00224	0.5849	mg/L	0.00224	0.38%
Zn 206.200†	149016.7	3.246	mg/L	0.0123	3.246	mg/L	0.0123	0.38%
Zr 343.823†	49595.5	0.1331	mg/L	0.00061	0.1331	mg/L	0.00061	0.46%

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Sequence No.: 70 **Autosampler Location: 85**

Sample ID: 24E1437-15
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 230

Date Collected: 5/22/2024 10:01:37 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: 24E1437-15

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	3582652.9	85.85	%	1.701				1.98%
Y radial	185142.8	89.69	%	2.397				2.67%
Ag 328.068†	-11036.9	-0.0363	mg/L	0.00052	-0.0363	mg/L	0.00052	1.43%
Al 396.153†	1426178.8	372.8	mg/L	7.16	372.8	mg/L	7.16	1.92%
As 188.979†	0.9	0.2218	mg/L	0.00785	0.2218	mg/L	0.00785	3.54%
B 208.889†	1598.5	0.1130	mg/L	0.00234	0.1130	mg/L	0.00234	2.07%
Ba 233.527†	450530.1	3.615	mg/L	0.0037	3.615	mg/L	0.0037	0.10%
Be 313.107†	8901.2	0.0189	mg/L	0.00005	0.0189	mg/L	0.00005	0.26%
Ca 317.933†	3885674.9	554.2	mg/L	12.58	554.2	mg/L	12.58	2.27%
Cd 228.802†	-162.2	0.0072	mg/L	0.00044	0.0072	mg/L	0.00044	6.08%
Co 228.616†	23164.9	0.3100	mg/L	0.00658	0.3100	mg/L	0.00658	2.12%
Cr 267.716†	56106.6	0.5988	mg/L	0.00227	0.5988	mg/L	0.00227	0.38%
Cu 327.393†	201524.0	1.402	mg/L	0.0042	1.402	mg/L	0.0042	0.30%
Fe 238.204†	1578023.9	625.1	mg/L	14.57	625.1	mg/L	14.57	2.33%
K 766.490†	140689.3	45.19	mg/L	0.860	45.19	mg/L	0.860	1.90%
Mg 285.213†	1274876.0	132.7	mg/L	2.73	132.7	mg/L	2.73	2.06%
Mn 257.610†	404709.3	14.26	mg/L	0.321	14.26	mg/L	0.321	2.25%
Mo 202.031†	-203.9	-0.0108	mg/L	0.00076	-0.0108	mg/L	0.00076	7.05%
Na 589.592†	15111.5	1.810	mg/L	0.0098	1.810	mg/L	0.0098	0.54%
Ni 231.604†	24224.5	0.8519	mg/L	0.01900	0.8519	mg/L	0.01900	2.23%
Pb 220.353†	47694.5	5.519	mg/L	0.1209	5.519	mg/L	0.1209	2.19%
Sb 206.836†	-34.1	0.0119	mg/L	0.00098	0.0119	mg/L	0.00098	8.23%
Se 196.026†	3.2	-0.0641	mg/L	0.00730	-0.0641	mg/L	0.00730	11.39%
Sn 189.927†	186.1	0.0311	mg/L	0.00224	0.0311	mg/L	0.00224	7.21%
Ti 337.279†	50304.2	2.597	mg/L	0.0034	2.597	mg/L	0.0034	0.13%
Tl 351.924†	-4375.4	-0.0530	mg/L	0.00629	-0.0530	mg/L	0.00629	11.86%
V 290.880†	104082.1	0.6069	mg/L	0.00292	0.6069	mg/L	0.00292	0.48%
Zn 206.200†	161057.4	3.508	mg/L	0.0069	3.508	mg/L	0.0069	0.20%
Zr 343.823†	53447.7	0.1433	mg/L	0.00065	0.1433	mg/L	0.00065	0.45%

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Sequence No.: 71
Sample ID: 24E1437-16
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 230

Autosampler Location: 86
Date Collected: 5/22/2024 10:08:14 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: 24E1437-16

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	3770153.7	90.34	%	0.378				0.42%
Y radial	191718.7	92.87	%	1.577				1.70%
Ag 328.068†	-11113.5	-0.0361	mg/L	0.00054	-0.0361	mg/L	0.00054	1.50%
Al 396.153†	1577839.7	412.4	mg/L	8.01	412.4	mg/L	8.01	1.94%
As 188.979†	-170.8	0.1586	mg/L	0.00416	0.1586	mg/L	0.00416	2.62%
B 208.889†	1196.6	0.0849	mg/L	0.00092	0.0849	mg/L	0.00092	1.08%
Ba 233.527†	383883.5	3.062	mg/L	0.0041	3.062	mg/L	0.0041	0.13%
Be 313.107†	10237.8	0.0220	mg/L	0.00027	0.0220	mg/L	0.00027	1.25%
Ca 317.933†	742829.6	105.9	mg/L	2.24	105.9	mg/L	2.24	2.11%
Cd 228.802†	-373.0	0.0071	mg/L	0.00042	0.0071	mg/L	0.00042	5.88%
Co 228.616†	26868.1	0.3591	mg/L	0.00262	0.3591	mg/L	0.00262	0.73%
Cr 267.716†	53550.7	0.5705	mg/L	0.00151	0.5705	mg/L	0.00151	0.26%
Cu 327.393†	213509.5	1.485	mg/L	0.0025	1.485	mg/L	0.0025	0.17%
Fe 238.204†	1708092.6	676.7	mg/L	13.68	676.7	mg/L	13.68	2.02%
K 766.490†	136733.8	43.92	mg/L	0.840	43.92	mg/L	0.840	1.91%
Mg 285.213†	1447578.0	150.8	mg/L	3.00	150.8	mg/L	3.00	1.99%
Mn 257.610†	454736.6	16.02	mg/L	0.328	16.02	mg/L	0.328	2.05%
Mo 202.031†	-239.5	-0.0127	mg/L	0.00020	-0.0127	mg/L	0.00020	1.57%

Na 589.592†	12892.8	1.544	mg/L	0.0070	1.544	mg/L	0.0070	0.45%
Ni 231.604†	28321.8	0.9959	mg/L	0.00890	0.9959	mg/L	0.00890	0.89%
Pb 220.353†	27968.6	3.250	mg/L	0.0258	3.250	mg/L	0.0258	0.79%
Sb 206.836†	-76.9	0.0059	mg/L	0.00154	0.0059	mg/L	0.00154	26.17%
Se 196.026†	-8.9	-0.0296	mg/L	0.00979	-0.0296	mg/L	0.00979	33.12%
Sn 189.927†	420.7	0.0704	mg/L	0.00190	0.0704	mg/L	0.00190	2.70%
Ti 337.279†	60831.1	3.141	mg/L	0.0127	3.141	mg/L	0.0127	0.40%
Tl 351.924†	-4738.9	-0.0587	mg/L	0.00615	-0.0587	mg/L	0.00615	10.47%
V 290.880†	110146.4	0.6413	mg/L	0.00124	0.6413	mg/L	0.00124	0.19%
Zn 206.200†	173319.2	3.775	mg/L	0.0022	3.775	mg/L	0.0022	0.06%
Zr 343.823†	67139.5	0.1826	mg/L	0.00006	0.1826	mg/L	0.00006	0.03%

Sequence No.: 72
Sample ID: 24E1437-17
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 230

Autosampler Location: 87
Date Collected: 5/22/2024 10:14:51 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: 24E1437-17

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	3773179.9	90.41	%	0.927				1.03%
Y radial	188206.0	91.17	%	1.634				1.79%
Ag 328.068†	-6976.3	-0.0214	mg/L	0.00052	-0.0214	mg/L	0.00052	2.45%
Al 396.153†	1118797.7	292.4	mg/L	0.65	292.4	mg/L	0.65	0.22%
As 188.979†	-137.1	0.0989	mg/L	0.00173	0.0989	mg/L	0.00173	1.75%
B 208.889†	996.8	0.0707	mg/L	0.00141	0.0707	mg/L	0.00141	2.00%
Ba 233.527†	276818.9	2.211	mg/L	0.0078	2.211	mg/L	0.0078	0.35%
Be 313.107†	6321.5	0.0124	mg/L	0.00010	0.0124	mg/L	0.00010	0.81%
Ca 317.933†	831190.0	118.5	mg/L	0.09	118.5	mg/L	0.09	0.08%
Cd 228.802†	31.0	0.0083	mg/L	0.00012	0.0083	mg/L	0.00012	1.43%
Co 228.616†	15601.8	0.2084	mg/L	0.00317	0.2084	mg/L	0.00317	1.52%
Cr 267.716†	40742.1	0.4336	mg/L	0.00743	0.4336	mg/L	0.00743	1.71%
Cu 327.393†	123155.8	0.8565	mg/L	0.00406	0.8565	mg/L	0.00406	0.47%
Fe 238.204†	1171723.7	464.2	mg/L	0.97	464.2	mg/L	0.97	0.21%
K 766.490†	70554.2	22.66	mg/L	0.065	22.66	mg/L	0.065	0.29%
Mg 285.213†	957198.5	99.74	mg/L	0.241	99.74	mg/L	0.241	0.24%
Mn 257.610†	381173.5	13.42	mg/L	0.020	13.42	mg/L	0.020	0.15%
Mo 202.031†	-202.7	-0.0108	mg/L	0.00056	-0.0108	mg/L	0.00056	5.19%
Na 589.592†	7386.1	0.8845	mg/L	0.01516	0.8845	mg/L	0.01516	1.71%
Ni 231.604†	14207.9	0.4997	mg/L	0.00919	0.4997	mg/L	0.00919	1.84%
Pb 220.353†	35520.9	4.112	mg/L	0.0667	4.112	mg/L	0.0667	1.62%
Sb 206.836†	-38.3	0.0065	mg/L	0.00036	0.0065	mg/L	0.00036	5.60%
Se 196.026†	4.7	-0.0167	mg/L	0.01016	-0.0167	mg/L	0.01016	60.82%
Sn 189.927†	-34.4	-0.0059	mg/L	0.00048	-0.0059	mg/L	0.00048	8.14%
Ti 337.279†	37907.0	1.957	mg/L	0.0185	1.957	mg/L	0.0185	0.95%
Tl 351.924†	-3051.5	-0.0201	mg/L	0.00670	-0.0201	mg/L	0.00670	33.39%
V 290.880†	107787.6	0.6415	mg/L	0.00301	0.6415	mg/L	0.00301	0.47%
Zn 206.200†	117739.1	2.564	mg/L	0.0106	2.564	mg/L	0.0106	0.41%
Zr 343.823†	34439.3	0.0909	mg/L	0.00082	0.0909	mg/L	0.00082	0.90%

Sequence No.: 73
Sample ID: SEQ-CCV@ 23J0975
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 5
Date Collected: 5/22/2024 10:19:28 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	3866710.8	92.65	%	0.697				0.75%
Y radial	186929.7	90.55	%	2.123				2.34%
Ag 328.068†	570926.3	2.451	mg/L	0.0227	2.451	mg/L	0.0227	0.93%

QC value within limits for Ag 328.068 Recovery = 98.03%

Al 396.153†	38062.8	9.684 mg/L	0.0340	9.684 mg/L	0.0340	0.35%
QC value within limits for Al 396.153 Recovery = 96.84%						
As 188.979†	11091.6	4.825 mg/L	0.0683	4.825 mg/L	0.0683	1.42%
QC value within limits for As 188.979 Recovery = 96.50%						
B 208.889†	68855.8	4.595 mg/L	0.0157	4.595 mg/L	0.0157	0.34%
QC value within limits for B 208.889 Recovery = 91.90%						
Ba 233.527†	623873.2	5.128 mg/L	0.0104	5.128 mg/L	0.0104	0.20%
QC value within limits for Ba 233.527 Recovery = 102.57%						
Be 313.107†	1930135.1	4.747 mg/L	0.0430	4.747 mg/L	0.0430	0.91%
QC value within limits for Be 313.107 Recovery = 94.94%						
Ca 317.933†	70135.4	10.00 mg/L	0.044	10.00 mg/L	0.044	0.44%
QC value within limits for Ca 317.933 Recovery = 100.03%						
Cd 228.802†	432068.6	5.073 mg/L	0.0051	5.073 mg/L	0.0051	0.10%
QC value within limits for Cd 228.802 Recovery = 101.45%						
Co 228.616†	372768.0	5.083 mg/L	0.0067	5.083 mg/L	0.0067	0.13%
QC value within limits for Co 228.616 Recovery = 101.66%						
Cr 267.716†	469188.7	5.058 mg/L	0.0065	5.058 mg/L	0.0065	0.13%
QC value within limits for Cr 267.716 Recovery = 101.17%						
Cu 327.393†	670933.6	4.682 mg/L	0.0241	4.682 mg/L	0.0241	0.51%
QC value within limits for Cu 327.393 Recovery = 93.64%						
Fe 238.204†	12595.0	5.016 mg/L	0.0179	5.016 mg/L	0.0179	0.36%
QC value within limits for Fe 238.204 Recovery = 100.32%						
K 766.490†	30247.3	9.715 mg/L	0.0484	9.715 mg/L	0.0484	0.50%
QC value within limits for K 766.490 Recovery = 97.15%						
Mg 285.213†	95502.3	9.893 mg/L	0.0167	9.893 mg/L	0.0167	0.17%
QC value within limits for Mg 285.213 Recovery = 98.93%						
Mn 257.610†	139655.4	4.905 mg/L	0.0200	4.905 mg/L	0.0200	0.41%
QC value within limits for Mn 257.610 Recovery = 98.09%						
Mo 202.031†	94014.5	4.989 mg/L	0.0135	4.989 mg/L	0.0135	0.27%
QC value within limits for Mo 202.031 Recovery = 99.78%						
Na 589.592†	80944.1	9.693 mg/L	0.1331	9.693 mg/L	0.1331	1.37%
QC value within limits for Na 589.592 Recovery = 96.93%						
Ni 231.604†	143012.7	5.027 mg/L	0.0076	5.027 mg/L	0.0076	0.15%
QC value within limits for Ni 231.604 Recovery = 100.53%						
Pb 220.353†	43570.8	5.024 mg/L	0.0697	5.024 mg/L	0.0697	1.39%
QC value within limits for Pb 220.353 Recovery = 100.48%						
Sb 206.836†	22086.1	4.772 mg/L	0.0693	4.772 mg/L	0.0693	1.45%
QC value within limits for Sb 206.836 Recovery = 95.44%						
Se 196.026†	6403.1	4.883 mg/L	0.0835	4.883 mg/L	0.0835	1.71%
QC value within limits for Se 196.026 Recovery = 97.66%						
Sn 189.927†	29762.2	4.990 mg/L	0.0731	4.990 mg/L	0.0731	1.46%
QC value within limits for Sn 189.927 Recovery = 99.81%						
Ti 337.279†	93500.6	4.825 mg/L	0.0120	4.825 mg/L	0.0120	0.25%
QC value within limits for Ti 337.279 Recovery = 96.50%						
Tl 351.924†	23658.5	2.378 mg/L	0.0321	2.378 mg/L	0.0321	1.35%
QC value within limits for Tl 351.924 Recovery = 95.12%						
V 290.880†	824728.2	5.159 mg/L	0.0046	5.159 mg/L	0.0046	0.09%
QC value within limits for V 290.880 Recovery = 103.19%						
Zn 206.200†	235107.0	5.204 mg/L	0.0062	5.204 mg/L	0.0062	0.12%
QC value within limits for Zn 206.200 Recovery = 104.08%						
Zr 343.823†	1647505.7	4.876 mg/L	0.0121	4.876 mg/L	0.0121	0.25%

All analyte(s) passed QC.

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Sequence No.: 74 **Autosampler Location: 1**
Sample ID: SEQ-CCB@ 23J0970 **Date Collected: 5/22/2024 10:26:06 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 230 **Auto Dilution Factor: 1**

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y axial	4001318.4	95.88	%	0.741				0.77%
Y radial	186500.7	90.35	%	1.829				2.02%
Ag 328.068†	526.8	0.0023	mg/L	0.00022	0.0023	mg/L	0.00022	9.67%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	42.3	0.0110	mg/L	0.00479	0.0110	mg/L	0.00479	43.60%

QC value within limits for Al 396.153 Recovery = Not calculated
As 188.979† 0.1 0.0001 mg/L 0.00031 0.0001 mg/L 0.00031 588.89%
QC value within limits for As 188.979 Recovery = Not calculated
B 208.889† 166.0 0.0116 mg/L 0.00057 0.0116 mg/L 0.00057 4.88%
QC value within limits for B 208.889 Recovery = Not calculated
Ba 233.527† 28.5 0.0002 mg/L 0.00004 0.0002 mg/L 0.00004 19.17%
QC value within limits for Ba 233.527 Recovery = Not calculated
Be 313.107† -77.1 -0.0002 mg/L 0.00009 -0.0002 mg/L 0.00009 50.29%
QC value within limits for Be 313.107 Recovery = Not calculated
Ca 317.933† 64.8 0.0092 mg/L 0.00280 0.0092 mg/L 0.00280 30.35%
QC value within limits for Ca 317.933 Recovery = Not calculated
Cd 228.802† 25.7 0.0003 mg/L 0.00005 0.0003 mg/L 0.00005 17.03%
QC value within limits for Cd 228.802 Recovery = Not calculated
Co 228.616† -184.3 -0.0025 mg/L 0.00013 -0.0025 mg/L 0.00013 5.24%
QC value within limits for Co 228.616 Recovery = Not calculated
Cr 267.716† -266.9 -0.0029 mg/L 0.00009 -0.0029 mg/L 0.00009 2.96%
QC value within limits for Cr 267.716 Recovery = Not calculated
Cu 327.393† 2046.5 0.0142 mg/L 0.00053 0.0142 mg/L 0.00053 3.70%
QC value greater than the upper limit for Cu 327.393 Recovery = Not calculated SOIL OK- JLC 05/23/24
Fe 238.204† 126.8 0.0502 mg/L 0.00235 0.0502 mg/L 0.00235 4.68%
QC value greater than the upper limit for Fe 238.204 Recovery = Not calculated SOIL OK- JLC 05/23/24
K 766.490† 56.7 0.0182 mg/L 0.01142 0.0182 mg/L 0.01142 62.70%
QC value within limits for K 766.490 Recovery = Not calculated
Mg 285.213† -437.5 -0.0454 mg/L 0.00110 -0.0454 mg/L 0.00110 2.42%
QC value within limits for Mg 285.213 Recovery = Not calculated
Mn 257.610† -21.4 -0.0007 mg/L 0.00012 -0.0007 mg/L 0.00012 16.45%
QC value within limits for Mn 257.610 Recovery = Not calculated
Mo 202.031† 35.3 0.0019 mg/L 0.00021 0.0019 mg/L 0.00021 11.21%
QC value within limits for Mo 202.031 Recovery = Not calculated
Na 589.592† -30.2 -0.0036 mg/L 0.00168 -0.0036 mg/L 0.00168 46.64%
QC value within limits for Na 589.592 Recovery = Not calculated
Ni 231.604† -159.8 -0.0056 mg/L 0.00041 -0.0056 mg/L 0.00041 7.31%
QC value within limits for Ni 231.604 Recovery = Not calculated
Pb 220.353† 0.3 0.0000 mg/L 0.00069 0.0000 mg/L 0.00069 >999.9%
QC value within limits for Pb 220.353 Recovery = Not calculated
Sb 206.836† -0.1 0.0000 mg/L 0.00059 0.0000 mg/L 0.00059 >999.9%
QC value within limits for Sb 206.836 Recovery = Not calculated
Se 196.026† 2.6 0.0020 mg/L 0.00255 0.0020 mg/L 0.00255 129.01%
QC value within limits for Se 196.026 Recovery = Not calculated
Sn 189.927† 6.6 0.0011 mg/L 0.00034 0.0011 mg/L 0.00034 31.13%
QC value within limits for Sn 189.927 Recovery = Not calculated
Ti 337.279† 23.8 0.0012 mg/L 0.00023 0.0012 mg/L 0.00023 19.11%
QC value within limits for Ti 337.279 Recovery = Not calculated
Tl 351.924† 58.1 0.0060 mg/L 0.00442 0.0060 mg/L 0.00442 73.90%
QC value within limits for Tl 351.924 Recovery = Not calculated
V 290.880† -491.8 -0.0031 mg/L 0.00067 -0.0031 mg/L 0.00067 21.90%
QC value within limits for V 290.880 Recovery = Not calculated
Zn 206.200† 246.1 0.0054 mg/L 0.00032 0.0054 mg/L 0.00032 5.96%
QC value within limits for Zn 206.200 Recovery = Not calculated
Zr 343.823† 40.8 0.0001 mg/L 0.00006 0.0001 mg/L 0.00006 50.37%
QC Failed. Continue with analysis.

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Sequence No.: 75 **Autosampler Location: 88**
Sample ID: 24E1437-18 **Date Collected: 5/22/2024 10:31:35 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 110 **Auto Dilution Factor: 1**

Mean Data: 24E1437-18

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y axial	3699321.4	88.64	%	0.068				0.08%
Y radial	187360.3	90.76	%	1.075				1.18%
Ag 328.068†	-8147.4	-0.0251	mg/L	0.00047	-0.0251	mg/L	0.00047	1.85%
Al 396.153†	1238215.3	323.7	mg/L	0.96	323.7	mg/L	0.96	0.30%
As 188.979†	-126.9	0.1217	mg/L	0.00607	0.1217	mg/L	0.00607	4.99%
B 208.889†	1113.1	0.0789	mg/L	0.00033	0.0789	mg/L	0.00033	0.42%

Ba 233.527†	308465.6	2.465	mg/L	0.0053	2.465	mg/L	0.0053	0.22%
Be 313.107†	7214.4	0.0134	mg/L	0.00037	0.0134	mg/L	0.00037	2.74%
Ca 317.933†	1633256.2	232.9	mg/L	0.75	232.9	mg/L	0.75	0.32%
Cd 228.802†	156.4	0.0103	mg/L	0.00018	0.0103	mg/L	0.00018	1.75%
Co 228.616†	16728.3	0.2232	mg/L	0.00023	0.2232	mg/L	0.00023	0.10%
Cr 267.716†	50622.1	0.5390	mg/L	0.00118	0.5390	mg/L	0.00118	0.22%
Cu 327.393†	152943.0	1.064	mg/L	0.0044	1.064	mg/L	0.0044	0.42%
Fe 238.204†	1295021.6	513.0	mg/L	1.95	513.0	mg/L	1.95	0.38%
K 766.490†	76759.1	24.65	mg/L	0.081	24.65	mg/L	0.081	0.33%
Mg 285.213†	1628066.8	169.4	mg/L	0.42	169.4	mg/L	0.42	0.25%
Mn 257.610†	460224.1	16.20	mg/L	0.065	16.20	mg/L	0.065	0.40%
Mo 202.031†	-221.8	-0.0118	mg/L	0.00108	-0.0118	mg/L	0.00108	9.17%
Na 589.592†	8886.8	1.064	mg/L	0.0128	1.064	mg/L	0.0128	1.20%
Ni 231.604†	17333.5	0.6096	mg/L	0.00107	0.6096	mg/L	0.00107	0.18%
Pb 220.353†	41860.8	4.845	mg/L	0.0017	4.845	mg/L	0.0017	0.04%
Sb 206.836†	-31.9	0.0087	mg/L	0.00096	0.0087	mg/L	0.00096	11.08%
Se 196.026†	8.6	-0.0385	mg/L	0.00411	-0.0385	mg/L	0.00411	10.68%
Sn 189.927†	-19.2	-0.0033	mg/L	0.00069	-0.0033	mg/L	0.00069	20.74%
Ti 337.279†	41668.1	2.151	mg/L	0.0321	2.151	mg/L	0.0321	1.49%
Tl 351.924†	-3491.8	-0.0351	mg/L	0.00150	-0.0351	mg/L	0.00150	4.28%
V 290.880†	147779.2	0.8882	mg/L	0.00223	0.8882	mg/L	0.00223	0.25%
Zn 206.200†	144160.5	3.144	mg/L	0.0102	3.144	mg/L	0.0102	0.32%
Zr 343.823†	40171.4	0.1067	mg/L	0.00174	0.1067	mg/L	0.00174	1.63%

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Sequence No.: 76 **Autosampler Location: 89**
Sample ID: 24E1437-19 **Date Collected: 5/22/2024 10:38:11 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 230 **Auto Dilution Factor: 1**

Mean Data: 24E1437-19

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	3779637.3	90.57	%	1.056				1.17%
Y radial	195305.7	94.61	%	0.487				0.52%
Ag 328.068†	-6585.9	-0.0202	mg/L	0.00038	-0.0202	mg/L	0.00038	1.88%
Al 396.153†	1085957.7	283.9	mg/L	2.92	283.9	mg/L	2.92	1.03%
As 188.979†	-119.3	0.0997	mg/L	0.00373	0.0997	mg/L	0.00373	3.74%
B 208.889†	1064.0	0.0754	mg/L	0.00096	0.0754	mg/L	0.00096	1.27%
Ba 233.527†	265940.0	2.125	mg/L	0.0058	2.125	mg/L	0.0058	0.27%
Be 313.107†	6090.7	0.0122	mg/L	0.00025	0.0122	mg/L	0.00025	2.07%
Ca 317.933†	701581.3	100.1	mg/L	0.99	100.1	mg/L	0.99	0.99%
Cd 228.802†	6.8	0.0075	mg/L	0.00014	0.0075	mg/L	0.00014	1.90%
Co 228.616†	15348.6	0.2050	mg/L	0.00246	0.2050	mg/L	0.00246	1.20%
Cr 267.716†	38186.6	0.4064	mg/L	0.00535	0.4064	mg/L	0.00535	1.32%
Cu 327.393†	118753.6	0.8259	mg/L	0.00141	0.8259	mg/L	0.00141	0.17%
Fe 238.204†	1119145.4	443.3	mg/L	4.08	443.3	mg/L	4.08	0.92%
K 766.490†	69930.6	22.46	mg/L	0.215	22.46	mg/L	0.215	0.96%
Mg 285.213†	883038.1	92.03	mg/L	0.954	92.03	mg/L	0.954	1.04%
Mn 257.610†	358476.4	12.62	mg/L	0.120	12.62	mg/L	0.120	0.95%
Mo 202.031†	-181.8	-0.0096	mg/L	0.00103	-0.0096	mg/L	0.00103	10.63%
Na 589.592†	7549.4	0.9040	mg/L	0.01371	0.9040	mg/L	0.01371	1.52%
Ni 231.604†	13686.6	0.4813	mg/L	0.00707	0.4813	mg/L	0.00707	1.47%
Pb 220.353†	31415.0	3.639	mg/L	0.0449	3.639	mg/L	0.0449	1.24%
Sb 206.836†	-17.1	0.0106	mg/L	0.00079	0.0106	mg/L	0.00079	7.52%
Se 196.026†	18.1	-0.0036	mg/L	0.00742	-0.0036	mg/L	0.00742	207.03%
Sn 189.927†	84.1	0.0140	mg/L	0.00239	0.0140	mg/L	0.00239	17.06%
Ti 337.279†	37044.2	1.913	mg/L	0.0267	1.913	mg/L	0.0267	1.40%
Tl 351.924†	-2917.7	-0.0194	mg/L	0.00646	-0.0194	mg/L	0.00646	33.26%
V 290.880†	95789.6	0.5679	mg/L	0.00313	0.5679	mg/L	0.00313	0.55%
Zn 206.200†	120884.7	2.635	mg/L	0.0071	2.635	mg/L	0.0071	0.27%
Zr 343.823†	32691.2	0.0862	mg/L	0.00017	0.0862	mg/L	0.00017	0.20%

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Sequence No.: 77 **Autosampler Location: 7**
Sample ID: RINSE **Date Collected: 5/22/2024 10:42:48 PM**
Analyst: **Data Type: Original**

Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 110 **Auto Dilution Factor: 1**

Mean Data: RINSE

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	4013821.7	96.18	%	0.393				0.41%
Y radial	188818.3	91.47	%	0.693				0.76%
Ag 328.068†	514.3	0.0022	mg/L	0.00035	0.0022	mg/L	0.00035	15.78%
Al 396.153†	77.0	0.0201	mg/L	0.00185	0.0201	mg/L	0.00185	9.20%
As 188.979†	-4.0	-0.0017	mg/L	0.00178	-0.0017	mg/L	0.00178	103.71%
B 208.889†	15.5	0.0011	mg/L	0.00046	0.0011	mg/L	0.00046	43.28%
Ba 233.527†	32.7	0.0003	mg/L	0.00005	0.0003	mg/L	0.00005	19.90%
Be 313.107†	-148.9	-0.0004	mg/L	0.00004	-0.0004	mg/L	0.00004	11.22%
Ca 317.933†	89.3	0.0127	mg/L	0.00263	0.0127	mg/L	0.00263	20.65%
Cd 228.802†	20.8	0.0003	mg/L	0.00010	0.0003	mg/L	0.00010	38.18%
Co 228.616†	-198.2	-0.0027	mg/L	0.00020	-0.0027	mg/L	0.00020	7.37%
Cr 267.716†	-271.5	-0.0029	mg/L	0.00005	-0.0029	mg/L	0.00005	1.78%
Cu 327.393†	528.4	0.0037	mg/L	0.00030	0.0037	mg/L	0.00030	8.04%
Fe 238.204†	175.4	0.0695	mg/L	0.00274	0.0695	mg/L	0.00274	3.95%
K 766.490†	24.8	0.0080	mg/L	0.01785	0.0080	mg/L	0.01785	224.16%
Mg 285.213†	-357.8	-0.0371	mg/L	0.00116	-0.0371	mg/L	0.00116	3.12%
Mn 257.610†	-8.7	-0.0003	mg/L	0.00016	-0.0003	mg/L	0.00016	52.59%
Mo 202.031†	10.7	0.0006	mg/L	0.00012	0.0006	mg/L	0.00012	20.25%
Na 589.592†	-30.1	-0.0036	mg/L	0.00114	-0.0036	mg/L	0.00114	31.65%
Ni 231.604†	-190.0	-0.0067	mg/L	0.00018	-0.0067	mg/L	0.00018	2.64%
Pb 220.353†	-2.1	-0.0003	mg/L	0.00065	-0.0003	mg/L	0.00065	256.69%
Sb 206.836†	0.2	0.0001	mg/L	0.00091	0.0001	mg/L	0.00091	816.96%
Se 196.026†	2.1	0.0016	mg/L	0.00339	0.0016	mg/L	0.00339	210.56%
Sn 189.927†	3.3	0.0006	mg/L	0.00031	0.0006	mg/L	0.00031	55.22%
Ti 337.279†	23.1	0.0012	mg/L	0.00016	0.0012	mg/L	0.00016	13.12%
Tl 351.924†	-55.5	-0.0056	mg/L	0.00484	-0.0056	mg/L	0.00484	85.94%
V 290.880†	-350.0	-0.0022	mg/L	0.00017	-0.0022	mg/L	0.00017	7.53%
Zn 206.200†	109.9	0.0024	mg/L	0.00033	0.0024	mg/L	0.00033	13.87%
Zr 343.823†	-5.6	-0.0000	mg/L	0.00013	-0.0000	mg/L	0.00013	709.23%

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Sequence No.: 78 **Autosampler Location: 90**
Sample ID: 24E1437-01@10X **Date Collected: 5/22/2024 10:48:18 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 110 **Auto Dilution Factor: 1**

Mean Data: 24E1437-01@10X

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	3910022.0	93.69	%	0.423				0.45%
Y radial	185641.3	89.93	%	1.217				1.35%
Ag 328.068†	-105.4	0.0001	mg/L	0.00011	0.0001	mg/L	0.00011	123.98%
Al 396.153†	85660.0	22.39	mg/L	0.077	22.39	mg/L	0.077	0.34%
As 188.979†	-30.5	0.0031	mg/L	0.00255	0.0031	mg/L	0.00255	83.10%
B 208.889†	166.8	0.0117	mg/L	0.00015	0.0117	mg/L	0.00015	1.30%
Ba 233.527†	26754.2	0.2138	mg/L	0.00352	0.2138	mg/L	0.00352	1.65%
Be 313.107†	300.7	0.0005	mg/L	0.00005	0.0005	mg/L	0.00005	9.24%
Ca 317.933†	312902.7	44.63	mg/L	0.148	44.63	mg/L	0.148	0.33%
Cd 228.802†	44.3	0.0014	mg/L	0.00001	0.0014	mg/L	0.00001	0.78%
Co 228.616†	1289.7	0.0171	mg/L	0.00020	0.0171	mg/L	0.00020	1.19%
Cr 267.716†	3065.7	0.0322	mg/L	0.00007	0.0322	mg/L	0.00007	0.22%
Cu 327.393†	11663.4	0.0811	mg/L	0.00074	0.0811	mg/L	0.00074	0.92%
Fe 238.204†	111365.7	44.12	mg/L	0.194	44.12	mg/L	0.194	0.44%
K 766.490†	10192.3	3.273	mg/L	0.0532	3.273	mg/L	0.0532	1.62%
Mg 285.213†	130160.6	13.54	mg/L	0.055	13.54	mg/L	0.055	0.41%
Mn 257.610†	56429.4	1.985	mg/L	0.0077	1.985	mg/L	0.0077	0.39%
Mo 202.031†	0.6	0.0000	mg/L	0.00018	0.0000	mg/L	0.00018	558.96%
Na 589.592†	831.9	0.0996	mg/L	0.00062	0.0996	mg/L	0.00062	0.63%
Ni 231.604†	1061.9	0.0373	mg/L	0.00025	0.0373	mg/L	0.00025	0.66%

Pb 220.353†	931.8	0.1085 mg/L	0.00140	0.1085 mg/L	0.00140	1.29%
Sb 206.836†	3.8	0.0022 mg/L	0.00117	0.0022 mg/L	0.00117	54.09%
Se 196.026†	4.4	-0.0030 mg/L	0.00314	-0.0030 mg/L	0.00314	103.95%
Sn 189.927†	-218.9	-0.0367 mg/L	0.00048	-0.0367 mg/L	0.00048	1.31%
Ti 337.279†	4629.7	0.2390 mg/L	0.00419	0.2390 mg/L	0.00419	1.75%
Tl 351.924†	-266.4	0.0004 mg/L	0.00332	0.0004 mg/L	0.00332	774.09%
V 290.880†	6453.5	0.0373 mg/L	0.00086	0.0373 mg/L	0.00086	2.32%
Zn 206.200†	13838.9	0.3020 mg/L	0.00532	0.3020 mg/L	0.00532	1.76%
Zr 343.823†	4061.7	0.0110 mg/L	0.00011	0.0110 mg/L	0.00011	0.98%

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Sequence No.: 79 **Autosampler Location: 91**
Sample ID: 24E1437-02@10X **Date Collected: 5/22/2024 10:53:50 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 110 **Auto Dilution Factor: 1**

Mean Data: 24E1437-02@10X

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	3940470.7	94.42	%	0.471				0.50%
Y radial	188913.7	91.52	%	0.754				0.82%
Ag 328.068†	-14.8	0.0005	mg/L	0.00023	0.0005	mg/L	0.00023	41.47%
Al 396.153†	75798.8	19.81	mg/L	0.142	19.81	mg/L	0.142	0.71%
As 188.979†	-23.6	0.0047	mg/L	0.00101	0.0047	mg/L	0.00101	21.40%
B 208.889†	172.4	0.0121	mg/L	0.00039	0.0121	mg/L	0.00039	3.22%
Ba 233.527†	22247.9	0.1773	mg/L	0.00181	0.1773	mg/L	0.00181	1.02%
Be 313.107†	257.8	0.0004	mg/L	0.00007	0.0004	mg/L	0.00007	14.61%
Ca 317.933†	273228.5	38.97	mg/L	0.271	38.97	mg/L	0.271	0.69%
Cd 228.802†	32.1	0.0012	mg/L	0.00007	0.0012	mg/L	0.00007	6.31%
Co 228.616†	1054.5	0.0139	mg/L	0.00007	0.0139	mg/L	0.00007	0.52%
Cr 267.716†	2856.2	0.0302	mg/L	0.00009	0.0302	mg/L	0.00009	0.30%
Cu 327.393†	10003.4	0.0696	mg/L	0.00102	0.0696	mg/L	0.00102	1.47%
Fe 238.204†	102271.6	40.51	mg/L	0.281	40.51	mg/L	0.281	0.69%
K 766.490†	11129.8	3.575	mg/L	0.0355	3.575	mg/L	0.0355	0.99%
Mg 285.213†	153647.4	15.98	mg/L	0.123	15.98	mg/L	0.123	0.77%
Mn 257.610†	40116.0	1.412	mg/L	0.0133	1.412	mg/L	0.0133	0.94%
Mo 202.031†	4.6	0.0002	mg/L	0.00006	0.0002	mg/L	0.00006	25.37%
Na 589.592†	1039.4	0.1245	mg/L	0.00281	0.1245	mg/L	0.00281	2.26%
Ni 231.604†	929.2	0.0327	mg/L	0.00049	0.0327	mg/L	0.00049	1.50%
Pb 220.353†	761.1	0.0887	mg/L	0.00088	0.0887	mg/L	0.00088	0.99%
Sb 206.836†	3.0	0.0018	mg/L	0.00061	0.0018	mg/L	0.00061	32.90%
Se 196.026†	8.2	0.0000	mg/L	0.00230	0.0000	mg/L	0.00230	>999.9%
Sn 189.927†	-210.2	-0.0353	mg/L	0.00043	-0.0353	mg/L	0.00043	1.23%
Ti 337.279†	4295.6	0.2218	mg/L	0.00275	0.2218	mg/L	0.00275	1.24%
Tl 351.924†	-266.2	-0.0018	mg/L	0.00517	-0.0018	mg/L	0.00517	283.60%
V 290.880†	6238.4	0.0362	mg/L	0.00095	0.0362	mg/L	0.00095	2.62%
Zn 206.200†	10508.0	0.2288	mg/L	0.00244	0.2288	mg/L	0.00244	1.06%
Zr 343.823†	3504.1	0.0094	mg/L	0.00037	0.0094	mg/L	0.00037	3.90%

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Sequence No.: 80 **Autosampler Location: 92**
Sample ID: 24E1437-03@10X **Date Collected: 5/22/2024 10:59:23 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 110 **Auto Dilution Factor: 1**

Mean Data: 24E1437-03@10X

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	3897078.0	93.38	%	1.827				1.96%
Y radial	187241.1	90.71	%	0.607				0.67%
Ag 328.068†	-306.7	-0.0003	mg/L	0.00017	-0.0003	mg/L	0.00017	62.43%
Al 396.153†	112220.6	29.33	mg/L	0.072	29.33	mg/L	0.072	0.25%
As 188.979†	-13.7	0.0122	mg/L	0.00351	0.0122	mg/L	0.00351	28.73%
B 208.889†	124.4	0.0088	mg/L	0.00030	0.0088	mg/L	0.00030	3.38%

Ba 233.527†	27601.7	0.2195 mg/L	0.00315	0.2195 mg/L	0.00315	1.43%
Be 313.107†	548.4	0.0010 mg/L	0.00006	0.0010 mg/L	0.00006	5.33%
Ca 317.933†	96055.3	13.70 mg/L	0.009	13.70 mg/L	0.009	0.07%
Cd 228.802†	26.7	0.0012 mg/L	0.00007	0.0012 mg/L	0.00007	5.47%
Co 228.616†	1427.8	0.0190 mg/L	0.00029	0.0190 mg/L	0.00029	1.53%
Cr 267.716†	3316.3	0.0352 mg/L	0.00083	0.0352 mg/L	0.00083	2.37%
Cu 327.393†	10008.8	0.0696 mg/L	0.00059	0.0696 mg/L	0.00059	0.85%
Fe 238.204†	135805.6	53.80 mg/L	0.054	53.80 mg/L	0.054	0.10%
K 766.490†	8017.6	2.575 mg/L	0.0261	2.575 mg/L	0.0261	1.01%
Mg 285.213†	102670.7	10.70 mg/L	0.014	10.70 mg/L	0.014	0.13%
Mn 257.610†	37566.3	1.323 mg/L	0.0148	1.323 mg/L	0.0148	1.12%
Mo 202.031†	-11.4	-0.0006 mg/L	0.00020	-0.0006 mg/L	0.00020	32.48%
Na 589.592†	1137.6	0.1362 mg/L	0.00126	0.1362 mg/L	0.00126	0.93%
Ni 231.604†	1247.5	0.0439 mg/L	0.00103	0.0439 mg/L	0.00103	2.34%
Pb 220.353†	2837.8	0.3288 mg/L	0.00795	0.3288 mg/L	0.00795	2.42%
Sb 206.836†	-6.3	0.0011 mg/L	0.00161	0.0011 mg/L	0.00161	143.27%
Se 196.026†	6.1	0.0025 mg/L	0.00325	0.0025 mg/L	0.00325	129.71%
Sn 189.927†	571.3	0.0959 mg/L	0.00288	0.0959 mg/L	0.00288	3.00%
Ti 337.279†	3883.6	0.2005 mg/L	0.00242	0.2005 mg/L	0.00242	1.21%
Tl 351.924†	-274.6	0.0059 mg/L	0.00687	0.0059 mg/L	0.00687	116.32%
V 290.880†	10461.5	0.0616 mg/L	0.00147	0.0616 mg/L	0.00147	2.38%
Zn 206.200†	15873.8	0.3461 mg/L	0.00493	0.3461 mg/L	0.00493	1.42%
Zr 343.823†	2902.0	0.0073 mg/L	0.00012	0.0073 mg/L	0.00012	1.70%

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Sequence No.: 81
Sample ID: 24E1437-04@10X
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 93
Date Collected: 5/22/2024 11:04:56 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: 24E1437-04@10X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y axial	3728515.5	89.34	%	0.382				0.43%
Y radial	181156.7	87.76	%	2.378				2.71%
Ag 328.068†	-478.9	-0.0012	mg/L	0.00012	-0.0012	mg/L	0.00012	10.13%
Al 396.153†	96846.8	25.32	mg/L	0.192	25.32	mg/L	0.192	0.76%
As 188.979†	-32.1	0.0055	mg/L	0.00435	0.0055	mg/L	0.00435	78.89%
B 208.889†	101.3	0.0069	mg/L	0.00325	0.0069	mg/L	0.00325	46.91%
Ba 233.527†	23198.7	0.1835	mg/L	0.00064	0.1835	mg/L	0.00064	0.35%
Be 313.107†	474.9	0.0008	mg/L	0.00015	0.0008	mg/L	0.00015	19.03%
Ca 317.933†	756677.8	107.9	mg/L	1.00	107.9	mg/L	1.00	0.92%
Cd 228.802†	42.4	0.0016	mg/L	0.00016	0.0016	mg/L	0.00016	10.24%
Co 228.616†	1465.4	0.0196	mg/L	0.00034	0.0196	mg/L	0.00034	1.73%
Cr 267.716†	2948.9	0.0310	mg/L	0.00018	0.0310	mg/L	0.00018	0.60%
Cu 327.393†	7441.8	0.0518	mg/L	0.00092	0.0518	mg/L	0.00092	1.78%
Fe 238.204†	133666.4	52.95	mg/L	0.412	52.95	mg/L	0.412	0.78%
K 766.490†	6218.5	1.997	mg/L	0.0547	1.997	mg/L	0.0547	2.74%
Mg 285.213†	301278.8	31.30	mg/L	0.051	31.30	mg/L	0.051	0.16%
Mn 257.610†	56986.1	2.005	mg/L	0.0110	2.005	mg/L	0.0110	0.55%
Mo 202.031†	78.4	0.0042	mg/L	0.00044	0.0042	mg/L	0.00044	10.61%
Na 589.592†	1033.1	0.1237	mg/L	0.00516	0.1237	mg/L	0.00516	4.17%
Ni 231.604†	1316.9	0.0463	mg/L	0.00148	0.0463	mg/L	0.00148	3.19%
Pb 220.353†	1697.8	0.1970	mg/L	0.00134	0.1970	mg/L	0.00134	0.68%
Sb 206.836†	9.8	0.0039	mg/L	0.00111	0.0039	mg/L	0.00111	28.51%
Se 196.026†	13.7	-0.0057	mg/L	0.00357	-0.0057	mg/L	0.00357	62.70%
Sn 189.927†	-319.5	-0.0536	mg/L	0.00132	-0.0536	mg/L	0.00132	2.45%
Ti 337.279†	3039.3	0.1569	mg/L	0.00426	0.1569	mg/L	0.00426	2.71%
Tl 351.924†	-295.7	0.0033	mg/L	0.00068	0.0033	mg/L	0.00068	20.59%
V 290.880†	12460.4	0.0742	mg/L	0.00047	0.0742	mg/L	0.00047	0.64%
Zn 206.200†	10954.7	0.2378	mg/L	0.00522	0.2378	mg/L	0.00522	2.20%
Zr 343.823†	3271.2	0.0084	mg/L	0.00009	0.0084	mg/L	0.00009	1.12%

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Sequence No.: 82
Sample ID: 24E1437-05@10X
Analyst:

Autosampler Location: 94
Date Collected: 5/22/2024 11:10:28 PM
Data Type: Original

Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 110 **Auto Dilution Factor: 1**

Mean Data: 24E1437-05@10X

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y axial	3891294.5	93.24	%	0.902				0.97%
Y radial	186923.2	90.55	%	0.271				0.30%
Ag 328.068†	-423.8	-0.0007	mg/L	0.00008	-0.0007	mg/L	0.00008	12.06%
Al 396.153†	134958.8	35.28	mg/L	0.088	35.28	mg/L	0.088	0.25%
As 188.979†	-24.1	0.0102	mg/L	0.00283	0.0102	mg/L	0.00283	27.81%
B 208.889†	2166.6	0.1526	mg/L	0.00329	0.1526	mg/L	0.00329	2.16%
Ba 233.527†	27874.3	0.2207	mg/L	0.00070	0.2207	mg/L	0.00070	0.32%
Be 313.107†	646.4	0.0013	mg/L	0.00004	0.0013	mg/L	0.00004	2.91%
Ca 317.933†	71925.4	10.26	mg/L	0.028	10.26	mg/L	0.028	0.27%
Cd 228.802†	9.7	0.0012	mg/L	0.00010	0.0012	mg/L	0.00010	8.27%
Co 228.616†	1924.0	0.0257	mg/L	0.00033	0.0257	mg/L	0.00033	1.28%
Cr 267.716†	3805.6	0.0405	mg/L	0.00051	0.0405	mg/L	0.00051	1.26%
Cu 327.393†	11668.1	0.0812	mg/L	0.00037	0.0812	mg/L	0.00037	0.45%
Fe 238.204†	155638.1	61.66	mg/L	0.131	61.66	mg/L	0.131	0.21%
K 766.490†	6463.0	2.076	mg/L	0.0158	2.076	mg/L	0.0158	0.76%
Mg 285.213†	97889.4	10.21	mg/L	0.007	10.21	mg/L	0.007	0.07%
Mn 257.610†	35953.8	1.267	mg/L	0.0071	1.267	mg/L	0.0071	0.56%
Mo 202.031†	-26.6	-0.0014	mg/L	0.00011	-0.0014	mg/L	0.00011	8.13%
Na 589.592†	984.6	0.1179	mg/L	0.00330	0.1179	mg/L	0.00330	2.80%
Ni 231.604†	1699.1	0.0598	mg/L	0.00106	0.0598	mg/L	0.00106	1.78%
Pb 220.353†	1002.3	0.1178	mg/L	0.00234	0.1178	mg/L	0.00234	1.98%
Sb 206.836†	-8.0	0.0004	mg/L	0.00039	0.0004	mg/L	0.00039	92.48%
Se 196.026†	4.3	0.0019	mg/L	0.00089	0.0019	mg/L	0.00089	46.83%
Sn 189.927†	-54.0	-0.0091	mg/L	0.00044	-0.0091	mg/L	0.00044	4.83%
Ti 337.279†	4365.8	0.2254	mg/L	0.00218	0.2254	mg/L	0.00218	0.97%
Tl 351.924†	-384.4	-0.0003	mg/L	0.00975	-0.0003	mg/L	0.00975	>999.9%
V 290.880†	8973.7	0.0518	mg/L	0.00035	0.0518	mg/L	0.00035	0.67%
Zn 206.200†	11420.2	0.2475	mg/L	0.00082	0.2475	mg/L	0.00082	0.33%
Zr 343.823†	3865.2	0.0100	mg/L	0.00010	0.0100	mg/L	0.00010	1.04%

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Sequence No.: 83 **Autosampler Location: 95**
Sample ID: 24E1437-06@10X **Date Collected: 5/22/2024 11:16:00 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 110 **Auto Dilution Factor: 1**

Mean Data: 24E1437-06@10X

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y axial	3905555.6	93.58	%	0.655				0.70%
Y radial	185293.2	89.76	%	1.413				1.57%
Ag 328.068†	-486.5	-0.0009	mg/L	0.00035	-0.0009	mg/L	0.00035	38.92%
Al 396.153†	143623.9	37.54	mg/L	0.068	37.54	mg/L	0.068	0.18%
As 188.979†	-22.5	0.0121	mg/L	0.00277	0.0121	mg/L	0.00277	22.93%
B 208.889†	1376.9	0.0970	mg/L	0.00386	0.0970	mg/L	0.00386	3.98%
Ba 233.527†	28819.7	0.2279	mg/L	0.00130	0.2279	mg/L	0.00130	0.57%
Be 313.107†	650.1	0.0013	mg/L	0.00007	0.0013	mg/L	0.00007	5.09%
Ca 317.933†	95907.0	13.68	mg/L	0.046	13.68	mg/L	0.046	0.33%
Cd 228.802†	-7.6	0.0010	mg/L	0.00011	0.0010	mg/L	0.00011	10.28%
Co 228.616†	2026.8	0.0271	mg/L	0.00035	0.0271	mg/L	0.00035	1.30%
Cr 267.716†	3931.0	0.0417	mg/L	0.00054	0.0417	mg/L	0.00054	1.28%
Cu 327.393†	10612.5	0.0738	mg/L	0.00034	0.0738	mg/L	0.00034	0.46%
Fe 238.204†	164782.7	65.28	mg/L	0.173	65.28	mg/L	0.173	0.26%
K 766.490†	6691.0	2.149	mg/L	0.0404	2.149	mg/L	0.0404	1.88%
Mg 285.213†	104163.2	10.87	mg/L	0.033	10.87	mg/L	0.033	0.30%
Mn 257.610†	42334.0	1.492	mg/L	0.0235	1.492	mg/L	0.0235	1.57%
Mo 202.031†	-31.0	-0.0016	mg/L	0.00013	-0.0016	mg/L	0.00013	7.60%
Na 589.592†	1080.6	0.1294	mg/L	0.00182	0.1294	mg/L	0.00182	1.40%
Ni 231.604†	1665.5	0.0586	mg/L	0.00075	0.0586	mg/L	0.00075	1.28%

Pb 220.353†	972.4	0.1146 mg/L	0.00173	0.1146 mg/L	0.00173	1.51%
Sb 206.836†	-9.6	0.0002 mg/L	0.00019	0.0002 mg/L	0.00019	94.04%
Se 196.026†	0.9	-0.0011 mg/L	0.00182	-0.0011 mg/L	0.00182	159.31%
Sn 189.927†	-82.9	-0.0139 mg/L	0.00037	-0.0139 mg/L	0.00037	2.69%
Ti 337.279†	4535.3	0.2342 mg/L	0.00296	0.2342 mg/L	0.00296	1.27%
Tl 351.924†	-374.7	0.0031 mg/L	0.00263	0.0031 mg/L	0.00263	86.20%
V 290.880†	9136.0	0.0525 mg/L	0.00050	0.0525 mg/L	0.00050	0.95%
Zn 206.200†	10883.6	0.2355 mg/L	0.00063	0.2355 mg/L	0.00063	0.27%
Zr 343.823†	3862.4	0.0099 mg/L	0.00022	0.0099 mg/L	0.00022	2.20%

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Sequence No.: 84 **Autosampler Location: 96**
Sample ID: 24E1437-07@10X **Date Collected: 5/22/2024 11:21:32 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 110 **Auto Dilution Factor: 1**

Mean Data: 24E1437-07@10X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y axial	3861292.0	92.52	%	0.905				0.98%
Y radial	186481.7	90.34	%	0.354				0.39%
Ag 328.068†	-557.3	-0.0011	mg/L	0.00038	-0.0011	mg/L	0.00038	34.98%
Al 396.153†	150294.0	39.29	mg/L	0.313	39.29	mg/L	0.313	0.80%
As 188.979†	-24.5	0.0148	mg/L	0.00097	0.0148	mg/L	0.00097	6.57%
B 208.889†	1134.5	0.0798	mg/L	0.00086	0.0798	mg/L	0.00086	1.08%
Ba 233.527†	48149.2	0.3853	mg/L	0.00613	0.3853	mg/L	0.00613	1.59%
Be 313.107†	1010.6	0.0022	mg/L	0.00004	0.0022	mg/L	0.00004	2.05%
Ca 317.933†	75626.0	10.79	mg/L	0.104	10.79	mg/L	0.104	0.97%
Cd 228.802†	-24.6	0.0011	mg/L	0.00012	0.0011	mg/L	0.00012	11.54%
Co 228.616†	2793.7	0.0374	mg/L	0.00045	0.0374	mg/L	0.00045	1.21%
Cr 267.716†	5423.2	0.0577	mg/L	0.00092	0.0577	mg/L	0.00092	1.59%
Cu 327.393†	27317.7	0.1900	mg/L	0.00375	0.1900	mg/L	0.00375	1.97%
Fe 238.204†	189660.1	75.13	mg/L	0.702	75.13	mg/L	0.702	0.93%
K 766.490†	12301.0	3.951	mg/L	0.0251	3.951	mg/L	0.0251	0.64%
Mg 285.213†	126325.1	13.18	mg/L	0.106	13.18	mg/L	0.106	0.80%
Mn 257.610†	53981.6	1.902	mg/L	0.0179	1.902	mg/L	0.0179	0.94%
Mo 202.031†	6.2	0.0003	mg/L	0.00010	0.0003	mg/L	0.00010	29.43%
Na 589.592†	1321.1	0.1582	mg/L	0.00163	0.1582	mg/L	0.00163	1.03%
Ni 231.604†	3624.1	0.1274	mg/L	0.00103	0.1274	mg/L	0.00103	0.81%
Pb 220.353†	4556.8	0.5272	mg/L	0.00393	0.5272	mg/L	0.00393	0.75%
Sb 206.836†	-7.8	0.0009	mg/L	0.00090	0.0009	mg/L	0.00090	103.00%
Se 196.026†	7.0	0.0035	mg/L	0.00288	0.0035	mg/L	0.00288	81.18%
Sn 189.927†	26.9	0.0045	mg/L	0.00106	0.0045	mg/L	0.00106	23.59%
Ti 337.279†	6098.4	0.3149	mg/L	0.00249	0.3149	mg/L	0.00249	0.79%
Tl 351.924†	-411.2	0.0054	mg/L	0.00818	0.0054	mg/L	0.00818	151.20%
V 290.880†	10433.1	0.0599	mg/L	0.00206	0.0599	mg/L	0.00206	3.44%
Zn 206.200†	24680.6	0.5388	mg/L	0.00620	0.5388	mg/L	0.00620	1.15%
Zr 343.823†	4669.3	0.0120	mg/L	0.00025	0.0120	mg/L	0.00025	2.07%

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Sequence No.: 85 **Autosampler Location: 97**
Sample ID: 24E1437-08@10X **Date Collected: 5/22/2024 11:27:04 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 110 **Auto Dilution Factor: 1**

Mean Data: 24E1437-08@10X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y axial	3834417.4	91.88	%	0.901				0.98%
Y radial	185096.2	89.67	%	0.546				0.61%
Ag 328.068†	-411.7	-0.0004	mg/L	0.00025	-0.0004	mg/L	0.00025	57.57%
Al 396.153†	159260.9	41.63	mg/L	0.116	41.63	mg/L	0.116	0.28%
As 188.979†	-29.8	0.0152	mg/L	0.00047	0.0152	mg/L	0.00047	3.09%
B 208.889†	854.8	0.0602	mg/L	0.00118	0.0602	mg/L	0.00118	1.96%

Ba 233.527†	47234.6	0.3769 mg/L	0.00293	0.3769 mg/L	0.00293	0.78%
Be 313.107†	849.0	0.0018 mg/L	0.00005	0.0018 mg/L	0.00005	2.59%
Ca 317.933†	196927.4	28.09 mg/L	0.146	28.09 mg/L	0.146	0.52%
Cd 228.802†	-28.5	0.0012 mg/L	0.00002	0.0012 mg/L	0.00002	1.84%
Co 228.616†	2845.4	0.0380 mg/L	0.00053	0.0380 mg/L	0.00053	1.40%
Cr 267.716†	5236.0	0.0554 mg/L	0.00029	0.0554 mg/L	0.00029	0.52%
Cu 327.393†	64502.5	0.4485 mg/L	0.00100	0.4485 mg/L	0.00100	0.22%
Fe 238.204†	205834.6	81.54 mg/L	0.472	81.54 mg/L	0.472	0.58%
K 766.490†	12100.5	3.886 mg/L	0.0349	3.886 mg/L	0.0349	0.90%
Mg 285.213†	163238.5	17.01 mg/L	0.086	17.01 mg/L	0.086	0.50%
Mn 257.610†	67583.8	2.380 mg/L	0.0098	2.380 mg/L	0.0098	0.41%
Mo 202.031†	-30.3	-0.0016 mg/L	0.00049	-0.0016 mg/L	0.00049	30.50%
Na 589.592†	1481.3	0.1774 mg/L	0.00337	0.1774 mg/L	0.00337	1.90%
Ni 231.604†	4754.4	0.1672 mg/L	0.00182	0.1672 mg/L	0.00182	1.09%
Pb 220.353†	3242.3	0.3753 mg/L	0.00475	0.3753 mg/L	0.00475	1.26%
Sb 206.836†	5.1	0.0042 mg/L	0.00095	0.0042 mg/L	0.00095	22.68%
Se 196.026†	8.6	0.0024 mg/L	0.00430	0.0024 mg/L	0.00430	181.46%
Sn 189.927†	201.9	0.0339 mg/L	0.00170	0.0339 mg/L	0.00170	5.03%
Ti 337.279†	6828.5	0.3526 mg/L	0.00304	0.3526 mg/L	0.00304	0.86%
Tl 351.924†	-438.6	0.0066 mg/L	0.00139	0.0066 mg/L	0.00139	21.02%
V 290.880†	11467.1	0.0660 mg/L	0.00010	0.0660 mg/L	0.00010	0.15%
Zn 206.200†	18352.7	0.3989 mg/L	0.00438	0.3989 mg/L	0.00438	1.10%
Zr 343.823†	5379.6	0.0140 mg/L	0.00022	0.0140 mg/L	0.00022	1.56%

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Sequence No.: 86 **Autosampler Location: 5**
Sample ID: SEQ-CCV@ 23J0975 **Date Collected: 5/22/2024 11:32:36 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 110 **Auto Dilution Factor: 1**

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y axial	3826824.7	91.70	%	2.060				2.25%
Y radial	185279.6	89.76	%	1.092				1.22%
Ag 328.068†	598029.4	2.567	mg/L	0.0024	2.567	mg/L	0.0024	0.10%
QC value within limits for Ag 328.068 Recovery = 102.67%								
Al 396.153†	39088.7	9.942	mg/L	0.0203	9.942	mg/L	0.0203	0.20%
QC value within limits for Al 396.153 Recovery = 99.42%								
As 188.979†	11494.7	5.000	mg/L	0.1010	5.000	mg/L	0.1010	2.02%
QC value within limits for As 188.979 Recovery = 100.01%								
B 208.889†	72206.1	4.821	mg/L	0.0238	4.821	mg/L	0.0238	0.49%
QC value within limits for B 208.889 Recovery = 96.43%								
Ba 233.527†	640865.1	5.268	mg/L	0.0017	5.268	mg/L	0.0017	0.03%
QC value within limits for Ba 233.527 Recovery = 105.36%								
Be 313.107†	2008039.8	4.939	mg/L	0.0816	4.939	mg/L	0.0816	1.65%
QC value within limits for Be 313.107 Recovery = 98.78%								
Ca 317.933†	72448.6	10.33	mg/L	0.023	10.33	mg/L	0.023	0.22%
QC value within limits for Ca 317.933 Recovery = 103.33%								
Cd 228.802†	442720.0	5.196	mg/L	0.0097	5.196	mg/L	0.0097	0.19%
QC value within limits for Cd 228.802 Recovery = 103.93%								
Co 228.616†	383628.7	5.231	mg/L	0.0040	5.231	mg/L	0.0040	0.08%
QC value within limits for Co 228.616 Recovery = 104.63%								
Cr 267.716†	482949.6	5.207	mg/L	0.0035	5.207	mg/L	0.0035	0.07%
QC value within limits for Cr 267.716 Recovery = 104.14%								
Cu 327.393†	695194.0	4.851	mg/L	0.0167	4.851	mg/L	0.0167	0.34%
QC value within limits for Cu 327.393 Recovery = 97.02%								
Fe 238.204†	12874.5	5.128	mg/L	0.0237	5.128	mg/L	0.0237	0.46%
QC value within limits for Fe 238.204 Recovery = 102.55%								
K 766.490†	31065.3	9.977	mg/L	0.0378	9.977	mg/L	0.0378	0.38%
QC value within limits for K 766.490 Recovery = 99.77%								
Mg 285.213†	98466.4	10.20	mg/L	0.032	10.20	mg/L	0.032	0.31%
QC value within limits for Mg 285.213 Recovery = 102.00%								
Mn 257.610†	143386.1	5.036	mg/L	0.0122	5.036	mg/L	0.0122	0.24%
QC value within limits for Mn 257.610 Recovery = 100.71%								
Mo 202.031†	97576.1	5.178	mg/L	0.0115	5.178	mg/L	0.0115	0.22%
QC value within limits for Mo 202.031 Recovery = 103.56%								

Na 589.592†	83938.6	10.05 mg/L	0.165	10.05 mg/L	0.165	1.64%
QC value within limits for Na 589.592 Recovery = 100.51%						
Ni 231.604†	147431.0	5.182 mg/L	0.0054	5.182 mg/L	0.0054	0.10%
QC value within limits for Ni 231.604 Recovery = 103.64%						
Pb 220.353†	44874.7	5.174 mg/L	0.1061	5.174 mg/L	0.1061	2.05%
QC value within limits for Pb 220.353 Recovery = 103.49%						
Sb 206.836†	22954.6	4.960 mg/L	0.1003	4.960 mg/L	0.1003	2.02%
QC value within limits for Sb 206.836 Recovery = 99.21%						
Se 196.026†	6608.1	5.040 mg/L	0.0962	5.040 mg/L	0.0962	1.91%
QC value within limits for Se 196.026 Recovery = 100.79%						
Sn 189.927†	30858.4	5.174 mg/L	0.0996	5.174 mg/L	0.0996	1.93%
QC value within limits for Sn 189.927 Recovery = 103.48%						
Ti 337.279†	97009.2	5.006 mg/L	0.0037	5.006 mg/L	0.0037	0.07%
QC value within limits for Ti 337.279 Recovery = 100.12%						
Tl 351.924†	24205.1	2.433 mg/L	0.0481	2.433 mg/L	0.0481	1.98%
QC value within limits for Tl 351.924 Recovery = 97.30%						
V 290.880†	844861.9	5.285 mg/L	0.0172	5.285 mg/L	0.0172	0.32%
QC value within limits for V 290.880 Recovery = 105.71%						
Zn 206.200†	242984.9	5.378 mg/L	0.0156	5.378 mg/L	0.0156	0.29%
QC value within limits for Zn 206.200 Recovery = 107.56%						
Zr 343.823†	1711294.6	5.065 mg/L	0.0018	5.065 mg/L	0.0018	0.04%

All analyte(s) passed QC.

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Sequence No.: 87 **Autosampler Location: 1**
Sample ID: SEQ-CCB@ 23J0970 **Date Collected: 5/22/2024 11:39:13 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 230 **Auto Dilution Factor: 1**

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y axial	3918014.0	93.88	%	1.318				1.40%
Y radial	183544.5	88.91	%	2.007				2.26%
Ag 328.068†	350.5	0.0015	mg/L	0.00049	0.0015	mg/L	0.00049	32.47%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	49.6	0.0129	mg/L	0.00739	0.0129	mg/L	0.00739	57.33%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	-2.9	-0.0013	mg/L	0.00177	-0.0013	mg/L	0.00177	139.10%
QC value within limits for As 188.979 Recovery = Not calculated								
B 208.889†	611.2	0.0429	mg/L	0.00068	0.0429	mg/L	0.00068	1.58%
QC value within limits for B 208.889 Recovery = Not calculated								
Ba 233.527†	23.5	0.0002	mg/L	0.00004	0.0002	mg/L	0.00004	18.77%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-73.2	-0.0002	mg/L	0.00003	-0.0002	mg/L	0.00003	16.34%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	71.1	0.0101	mg/L	0.00291	0.0101	mg/L	0.00291	28.73%
QC value within limits for Ca 317.933 Recovery = Not calculated								
Cd 228.802†	24.1	0.0003	mg/L	0.00010	0.0003	mg/L	0.00010	33.79%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	-218.9	-0.0030	mg/L	0.00003	-0.0030	mg/L	0.00003	0.92%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-267.8	-0.0029	mg/L	0.00006	-0.0029	mg/L	0.00006	2.14%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	2149.3	0.0149	mg/L	0.00066	0.0149	mg/L	0.00066	4.43%
QC value greater than the upper limit for Cu 327.393 Recovery = Not calculated								
Fe 238.204†	53.3	0.0211	mg/L	0.00546	0.0211	mg/L	0.00546	25.91%
QC value within limits for Fe 238.204 Recovery = Not calculated								
K 766.490†	119.2	0.0383	mg/L	0.01160	0.0383	mg/L	0.01160	30.28%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213†	-433.6	-0.0450	mg/L	0.00077	-0.0450	mg/L	0.00077	1.72%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610†	-43.3	-0.0015	mg/L	0.00014	-0.0015	mg/L	0.00014	8.90%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	36.4	0.0019	mg/L	0.00014	0.0019	mg/L	0.00014	7.05%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592†	2.5	0.0003	mg/L	0.00219	0.0003	mg/L	0.00219	728.59%

QC value within limits for Na 589.592 Recovery = Not calculated

Ni 231.604†	-195.3	-0.0069 mg/L	0.00038	-0.0069 mg/L	0.00038	5.47%

QC value within limits for Ni 231.604 Recovery = Not calculated

Pb 220.353†	-12.5	-0.0015 mg/L	0.00023	-0.0015 mg/L	0.00023	16.04%

QC value within limits for Pb 220.353 Recovery = Not calculated

Sb 206.836†	0.2	0.0001 mg/L	0.00029	0.0001 mg/L	0.00029	264.01%

QC value within limits for Sb 206.836 Recovery = Not calculated

Se 196.026†	1.2	0.0009 mg/L	0.00126	0.0009 mg/L	0.00126	136.07%

QC value within limits for Se 196.026 Recovery = Not calculated

Sn 189.927†	9.3	0.0016 mg/L	0.00097	0.0016 mg/L	0.00097	62.26%

QC value within limits for Sn 189.927 Recovery = Not calculated

Ti 337.279†	26.1	0.0013 mg/L	0.00025	0.0013 mg/L	0.00025	18.83%

QC value within limits for Ti 337.279 Recovery = Not calculated

Tl 351.924†	-91.0	-0.0093 mg/L	0.00244	-0.0093 mg/L	0.00244	26.31%

QC value within limits for Tl 351.924 Recovery = Not calculated

V 290.880†	-444.8	-0.0028 mg/L	0.00074	-0.0028 mg/L	0.00074	26.74%

QC value within limits for V 290.880 Recovery = Not calculated

Zn 206.200†	213.0	0.0047 mg/L	0.00017	0.0047 mg/L	0.00017	3.61%

QC value within limits for Zn 206.200 Recovery = Not calculated

Zr 343.823†	-32.0	-0.0001 mg/L	0.00005	-0.0001 mg/L	0.00005	51.00%

QC Failed. Continue with analysis.

Sequence No.: 88 **Autosampler Location: 98**
Sample ID: 24E1437-09@10X **Date Collected: 5/22/2024 11:44:44 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 110 **Auto Dilution Factor: 1**

Mean Data: 24E1437-09@10X

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y axial	3863025.8	92.56	%	0.992				1.07%
Y radial	185162.0	89.70	%	2.185				2.44%
Ag 328.068†	-852.4	-0.0022	mg/L	0.00019	-0.0022	mg/L	0.00019	8.51%
Al 396.153†	158779.7	41.50	mg/L	0.056	41.50	mg/L	0.056	0.13%
As 188.979†	-28.8	0.0166	mg/L	0.00244	0.0166	mg/L	0.00244	14.76%
B 208.889†	665.0	0.0469	mg/L	0.00030	0.0469	mg/L	0.00030	0.63%
Ba 233.527†	40941.3	0.3247	mg/L	0.00499	0.3247	mg/L	0.00499	1.54%
Be 313.107†	809.4	0.0017	mg/L	0.00010	0.0017	mg/L	0.00010	6.06%
Ca 317.933†	238886.8	34.07	mg/L	0.057	34.07	mg/L	0.057	0.17%
Cd 228.802†	-5.4	0.0014	mg/L	0.00009	0.0014	mg/L	0.00009	6.10%
Co 228.616†	2679.0	0.0359	mg/L	0.00054	0.0359	mg/L	0.00054	1.51%
Cr 267.716†	5096.0	0.0541	mg/L	0.00097	0.0541	mg/L	0.00097	1.80%
Cu 327.393†	16460.9	0.1145	mg/L	0.00174	0.1145	mg/L	0.00174	1.52%
Fe 238.204†	217015.6	85.97	mg/L	0.200	85.97	mg/L	0.200	0.23%
K 766.490†	12664.5	4.067	mg/L	0.0395	4.067	mg/L	0.0395	0.97%
Mg 285.213†	168072.7	17.51	mg/L	0.040	17.51	mg/L	0.040	0.23%
Mn 257.610†	58186.7	2.050	mg/L	0.0022	2.050	mg/L	0.0022	0.11%
Mo 202.031†	-24.9	-0.0013	mg/L	0.00018	-0.0013	mg/L	0.00018	13.94%
Na 589.592†	1305.9	0.1564	mg/L	0.00268	0.1564	mg/L	0.00268	1.71%
Ni 231.604†	2393.0	0.0842	mg/L	0.00128	0.0842	mg/L	0.00128	1.52%
Pb 220.353†	2230.7	0.2593	mg/L	0.00256	0.2593	mg/L	0.00256	0.99%
Sb 206.836†	-6.8	0.0015	mg/L	0.00027	0.0015	mg/L	0.00027	18.19%
Se 196.026†	-0.2	-0.0049	mg/L	0.00262	-0.0049	mg/L	0.00262	54.06%
Sn 189.927†	-181.6	-0.0305	mg/L	0.00059	-0.0305	mg/L	0.00059	1.94%
Ti 337.279†	5718.9	0.2953	mg/L	0.00738	0.2953	mg/L	0.00738	2.50%
Tl 351.924†	-465.7	0.0069	mg/L	0.00667	0.0069	mg/L	0.00667	96.42%
V 290.880†	11333.9	0.0648	mg/L	0.00139	0.0648	mg/L	0.00139	2.15%
Zn 206.200†	16121.5	0.3495	mg/L	0.00502	0.3495	mg/L	0.00502	1.44%
Zr 343.823†	6236.5	0.0164	mg/L	0.00021	0.0164	mg/L	0.00021	1.28%

Sequence No.: 89 **Autosampler Location: 99**
Sample ID: 24E1437-10@10X **Date Collected: 5/22/2024 11:50:16 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Wash Time: 110 **Auto Dilution Factor: 1**

Mean Data: 24E1437-10@10X

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	3927381.4	94.11	%	0.473				0.50%
Y radial	183674.9	88.98	%	2.167				2.44%
Ag 328.068†	-859.2	-0.0022	mg/L	0.00041	-0.0022	mg/L	0.00041	18.27%
Al 396.153†	163854.6	42.83	mg/L	0.073	42.83	mg/L	0.073	0.17%
As 188.979†	-39.4	0.0130	mg/L	0.00299	0.0130	mg/L	0.00299	22.99%
B 208.889†	587.6	0.0415	mg/L	0.00047	0.0415	mg/L	0.00047	1.14%
Ba 233.527†	39446.4	0.3118	mg/L	0.00615	0.3118	mg/L	0.00615	1.97%
Be 313.107†	799.4	0.0016	mg/L	0.00007	0.0016	mg/L	0.00007	4.55%
Ca 317.933†	200328.2	28.57	mg/L	0.059	28.57	mg/L	0.059	0.21%
Cd 228.802†	-13.7	0.0015	mg/L	0.00009	0.0015	mg/L	0.00009	5.96%
Co 228.616†	2597.2	0.0348	mg/L	0.00041	0.0348	mg/L	0.00041	1.19%
Cr 267.716†	5128.3	0.0542	mg/L	0.00119	0.0542	mg/L	0.00119	2.19%
Cu 327.393†	14918.8	0.1038	mg/L	0.00159	0.1038	mg/L	0.00159	1.53%
Fe 238.204†	228092.2	90.36	mg/L	0.258	90.36	mg/L	0.258	0.29%
K 766.490†	11850.7	3.806	mg/L	0.0991	3.806	mg/L	0.0991	2.60%
Mg 285.213†	185326.4	19.31	mg/L	0.027	19.31	mg/L	0.027	0.14%
Mn 257.610†	71168.5	2.506	mg/L	0.0070	2.506	mg/L	0.0070	0.28%
Mo 202.031†	-44.5	-0.0024	mg/L	0.00006	-0.0024	mg/L	0.00006	2.48%
Na 589.592†	1247.4	0.1494	mg/L	0.00481	0.1494	mg/L	0.00481	3.22%
Ni 231.604†	2400.4	0.0844	mg/L	0.00095	0.0844	mg/L	0.00095	1.12%
Pb 220.353†	1780.8	0.2075	mg/L	0.00169	0.2075	mg/L	0.00169	0.82%
Sb 206.836†	-3.0	0.0025	mg/L	0.00105	0.0025	mg/L	0.00105	41.71%
Se 196.026†	5.2	-0.0005	mg/L	0.00027	-0.0005	mg/L	0.00027	55.51%
Sn 189.927†	-174.9	-0.0294	mg/L	0.00026	-0.0294	mg/L	0.00026	0.89%
Ti 337.279†	5508.4	0.2844	mg/L	0.00656	0.2844	mg/L	0.00656	2.31%
Tl 351.924†	-525.1	0.0037	mg/L	0.00750	0.0037	mg/L	0.00750	200.66%
V 290.880†	11432.4	0.0651	mg/L	0.00146	0.0651	mg/L	0.00146	2.25%
Zn 206.200†	15327.8	0.3317	mg/L	0.00648	0.3317	mg/L	0.00648	1.95%
Zr 343.823†	6093.9	0.0159	mg/L	0.00048	0.0159	mg/L	0.00048	3.04%

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Sequence No.: 90 **Autosampler Location: 100**
Sample ID: 24E1437-11@10X **Date Collected: 5/22/2024 11:55:49 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 110 **Auto Dilution Factor: 1**

Mean Data: 24E1437-11@10X

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	3886185.0	93.12	%	1.171				1.26%
Y radial	185093.6	89.67	%	0.724				0.81%
Ag 328.068†	-1074.7	-0.0028	mg/L	0.00032	-0.0028	mg/L	0.00032	11.49%
Al 396.153†	155432.0	40.63	mg/L	0.075	40.63	mg/L	0.075	0.18%
As 188.979†	-34.2	0.0172	mg/L	0.00345	0.0172	mg/L	0.00345	20.04%
B 208.889†	707.0	0.0497	mg/L	0.00037	0.0497	mg/L	0.00037	0.74%
Ba 233.527†	114302.9	0.9249	mg/L	0.02257	0.9249	mg/L	0.02257	2.44%
Be 313.107†	1211.0	0.0027	mg/L	0.00002	0.0027	mg/L	0.00002	0.70%
Ca 317.933†	190811.1	27.21	mg/L	0.038	27.21	mg/L	0.038	0.14%
Cd 228.802†	276.7	0.0051	mg/L	0.00004	0.0051	mg/L	0.00004	0.88%
Co 228.616†	3288.6	0.0441	mg/L	0.00059	0.0441	mg/L	0.00059	1.34%
Cr 267.716†	28987.5	0.3116	mg/L	0.00732	0.3116	mg/L	0.00732	2.35%
Cu 327.393†	40436.5	0.2812	mg/L	0.00639	0.2812	mg/L	0.00639	2.27%
Fe 238.204†	252394.2	99.99	mg/L	0.188	99.99	mg/L	0.188	0.19%
K 766.490†	14624.7	4.697	mg/L	0.0203	4.697	mg/L	0.0203	0.43%
Mg 285.213†	141450.0	14.76	mg/L	0.017	14.76	mg/L	0.017	0.12%
Mn 257.610†	52638.3	1.856	mg/L	0.0136	1.856	mg/L	0.0136	0.73%
Mo 202.031†	29.2	0.0015	mg/L	0.00014	0.0015	mg/L	0.00014	9.12%
Na 589.592†	1587.3	0.1901	mg/L	0.00162	0.1901	mg/L	0.00162	0.85%
Ni 231.604†	5044.0	0.1774	mg/L	0.00193	0.1774	mg/L	0.00193	1.09%
Pb 220.353†	77810.0	8.966	mg/L	0.1912	8.966	mg/L	0.1912	2.13%
Sb 206.836†	14.3	0.0020	mg/L	0.00137	0.0020	mg/L	0.00137	69.17%

Se 196.026†	5.5	0.0012 mg/L	0.00339	0.0012 mg/L	0.00339	274.34%
Sn 189.927†	53.7	0.0090 mg/L	0.00111	0.0090 mg/L	0.00111	12.34%
Ti 337.279†	6225.8	0.3214 mg/L	0.00215	0.3214 mg/L	0.00215	0.67%
Tl 351.924†	-548.6	0.0075 mg/L	0.00581	0.0075 mg/L	0.00581	77.88%
V 290.880†	11322.5	0.0637 mg/L	0.00243	0.0637 mg/L	0.00243	3.81%
Zn 206.200†	78104.2	1.716 mg/L	0.0397	1.716 mg/L	0.0397	2.31%
Zr 343.823†	5843.5	0.0149 mg/L	0.00037	0.0149 mg/L	0.00037	2.45%

Sequence No.: 91 **Autosampler Location: 101**
Sample ID: 24E1437-12@10X **Date Collected: 5/23/2024 12:03:24 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 230 **Auto Dilution Factor: 1**

Mean Data: 24E1437-12@10X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y axial	3890040.8	93.21	%	1.067				1.14%
Y radial	190174.7	92.13	%	0.739				0.80%
Ag 328.068†	-1197.7	-0.0031	mg/L	0.00040	-0.0031	mg/L	0.00040	12.69%
Al 396.153†	190304.9	49.75	mg/L	0.200	49.75	mg/L	0.200	0.40%
As 188.979†	-44.5	0.0175	mg/L	0.00290	0.0175	mg/L	0.00290	16.54%
B 208.889†	546.4	0.0385	mg/L	0.00074	0.0385	mg/L	0.00074	1.93%
Ba 233.527†	145932.8	1.182	mg/L	0.0219	1.182	mg/L	0.0219	1.85%
Be 313.107†	1278.0	0.0027	mg/L	0.00006	0.0027	mg/L	0.00006	2.26%
Ca 317.933†	256494.3	36.58	mg/L	0.130	36.58	mg/L	0.130	0.35%
Cd 228.802†	831.7	0.0120	mg/L	0.00016	0.0120	mg/L	0.00016	1.30%
Co 228.616†	3820.5	0.0512	mg/L	0.00064	0.0512	mg/L	0.00064	1.24%
Cr 267.716†	41198.1	0.4429	mg/L	0.00870	0.4429	mg/L	0.00870	1.96%
Cu 327.393†	27403.8	0.1906	mg/L	0.00462	0.1906	mg/L	0.00462	2.43%
Fe 238.204†	290078.8	114.9	mg/L	0.44	114.9	mg/L	0.44	0.39%
K 766.490†	15565.5	4.999	mg/L	0.0437	4.999	mg/L	0.0437	0.87%
Mg 285.213†	188543.5	19.66	mg/L	0.052	19.66	mg/L	0.052	0.26%
Mn 257.610†	72822.5	2.566	mg/L	0.0106	2.566	mg/L	0.0106	0.41%
Mo 202.031†	-30.1	-0.0016	mg/L	0.00039	-0.0016	mg/L	0.00039	24.63%
Na 589.592†	1826.0	0.2187	mg/L	0.00421	0.2187	mg/L	0.00421	1.92%
Ni 231.604†	4011.4	0.1411	mg/L	0.00245	0.1411	mg/L	0.00245	1.74%
Pb 220.353†	99503.2	11.47	mg/L	0.219	11.47	mg/L	0.219	1.91%
Sb 206.836†	15.1	0.0002	mg/L	0.00169	0.0002	mg/L	0.00169	>999.9%
Se 196.026†	1.6	-0.0033	mg/L	0.00270	-0.0033	mg/L	0.00270	81.54%
Sn 189.927†	-138.8	-0.0233	mg/L	0.00061	-0.0233	mg/L	0.00061	2.61%
Ti 337.279†	7691.4	0.3971	mg/L	0.00614	0.3971	mg/L	0.00614	1.55%
Tl 351.924†	-648.4	0.0066	mg/L	0.00239	0.0066	mg/L	0.00239	36.06%
V 290.880†	13655.0	0.0773	mg/L	0.00256	0.0773	mg/L	0.00256	3.31%
Zn 206.200†	125353.2	2.756	mg/L	0.0501	2.756	mg/L	0.0501	1.82%
Zr 343.823†	6975.7	0.0179	mg/L	0.00057	0.0179	mg/L	0.00057	3.17%

Sequence No.: 92 **Autosampler Location: 102**
Sample ID: 24E1437-13@10X **Date Collected: 5/23/2024 12:10:57 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 230 **Auto Dilution Factor: 1**

Mean Data: 24E1437-13@10X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y axial	3911342.9	93.72	%	0.699				0.75%
Y radial	187195.4	90.68	%	0.574				0.63%
Ag 328.068†	-545.9	-0.0012	mg/L	0.00035	-0.0012	mg/L	0.00035	30.26%
Al 396.153†	146934.4	38.41	mg/L	0.142	38.41	mg/L	0.142	0.37%
As 188.979†	-23.6	0.0135	mg/L	0.00137	0.0135	mg/L	0.00137	10.11%
B 208.889†	487.8	0.0343	mg/L	0.00047	0.0343	mg/L	0.00047	1.36%
Ba 233.527†	41308.4	0.3298	mg/L	0.00196	0.3298	mg/L	0.00196	0.59%
Be 313.107†	814.4	0.0017	mg/L	0.00005	0.0017	mg/L	0.00005	3.11%

Ca 317.933†	74428.5	10.62	mg/L	0.021	10.62	mg/L	0.021	0.20%
Cd 228.802†	-24.0	0.0009	mg/L	0.00007	0.0009	mg/L	0.00007	7.56%
Co 228.616†	2343.2	0.0313	mg/L	0.00019	0.0313	mg/L	0.00019	0.60%
Cr 267.716†	4912.0	0.0521	mg/L	0.00030	0.0521	mg/L	0.00030	0.58%
Cu 327.393†	19750.7	0.1374	mg/L	0.00077	0.1374	mg/L	0.00077	0.56%
Fe 238.204†	176215.9	69.81	mg/L	0.168	69.81	mg/L	0.168	0.24%
K 766.490†	13790.7	4.429	mg/L	0.0139	4.429	mg/L	0.0139	0.31%
Mg 285.213†	123985.3	12.93	mg/L	0.021	12.93	mg/L	0.021	0.16%
Mn 257.610†	53871.1	1.897	mg/L	0.0029	1.897	mg/L	0.0029	0.15%
Mo 202.031†	4.0	0.0002	mg/L	0.00014	0.0002	mg/L	0.00014	64.42%
Na 589.592†	1082.9	0.1297	mg/L	0.00231	0.1297	mg/L	0.00231	1.78%
Ni 231.604†	2590.0	0.0911	mg/L	0.00060	0.0911	mg/L	0.00060	0.66%
Pb 220.353†	2566.5	0.2980	mg/L	0.00124	0.2980	mg/L	0.00124	0.41%
Sb 206.836†	-8.0	0.0006	mg/L	0.00031	0.0006	mg/L	0.00031	48.49%
Se 196.026†	4.0	0.0012	mg/L	0.00347	0.0012	mg/L	0.00347	297.62%
Sn 189.927†	-24.9	-0.0042	mg/L	0.00077	-0.0042	mg/L	0.00077	18.39%
Ti 337.279†	5844.2	0.3017	mg/L	0.00349	0.3017	mg/L	0.00349	1.16%
Tl 351.924†	-332.6	0.0100	mg/L	0.00703	0.0100	mg/L	0.00703	69.98%
V 290.880†	10091.7	0.0582	mg/L	0.00037	0.0582	mg/L	0.00037	0.63%
Zn 206.200†	17819.0	0.3880	mg/L	0.00309	0.3880	mg/L	0.00309	0.80%
Zr 343.823†	4700.5	0.0122	mg/L	0.00004	0.0122	mg/L	0.00004	0.35%

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Sequence No.: 93
Sample ID: 24E1437-14@10X
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 110

Autosampler Location: 103
Date Collected: 5/23/2024 12:16:30 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: 24E1437-14@10X

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	3915006.3	93.81	%	1.221				1.30%
Y radial	188509.9	91.32	%	2.359				2.58%
Ag 328.068†	-554.7	-0.0011	mg/L	0.00045	-0.0011	mg/L	0.00045	41.78%
Al 396.153†	164151.3	42.91	mg/L	0.037	42.91	mg/L	0.037	0.09%
As 188.979†	-27.5	0.0139	mg/L	0.00144	0.0139	mg/L	0.00144	10.36%
B 208.889†	472.3	0.0333	mg/L	0.00066	0.0333	mg/L	0.00066	1.99%
Ba 233.527†	44395.0	0.3544	mg/L	0.00222	0.3544	mg/L	0.00222	0.63%
Be 313.107†	921.9	0.0019	mg/L	0.00008	0.0019	mg/L	0.00008	4.01%
Ca 317.933†	72780.3	10.38	mg/L	0.035	10.38	mg/L	0.035	0.34%
Cd 228.802†	-17.6	0.0011	mg/L	0.00010	0.0011	mg/L	0.00010	8.42%
Co 228.616†	2554.8	0.0341	mg/L	0.00018	0.0341	mg/L	0.00018	0.52%
Cr 267.716†	5303.4	0.0563	mg/L	0.00024	0.0563	mg/L	0.00024	0.42%
Cu 327.393†	20825.6	0.1448	mg/L	0.00072	0.1448	mg/L	0.00072	0.50%
Fe 238.204†	191356.0	75.81	mg/L	0.118	75.81	mg/L	0.118	0.16%
K 766.490†	14150.4	4.545	mg/L	0.0080	4.545	mg/L	0.0080	0.18%
Mg 285.213†	135579.0	14.14	mg/L	0.027	14.14	mg/L	0.027	0.19%
Mn 257.610†	56722.1	1.998	mg/L	0.0015	1.998	mg/L	0.0015	0.08%
Mo 202.031†	-17.1	-0.0009	mg/L	0.00007	-0.0009	mg/L	0.00007	8.22%
Na 589.592†	1295.3	0.1551	mg/L	0.00411	0.1551	mg/L	0.00411	2.65%
Ni 231.604†	2755.1	0.0969	mg/L	0.00039	0.0969	mg/L	0.00039	0.40%
Pb 220.353†	2596.8	0.3019	mg/L	0.00278	0.3019	mg/L	0.00278	0.92%
Sb 206.836†	-7.6	0.0010	mg/L	0.00044	0.0010	mg/L	0.00044	44.07%
Se 196.026†	0.0	-0.0019	mg/L	0.00470	-0.0019	mg/L	0.00470	249.96%
Sn 189.927†	45.0	0.0075	mg/L	0.00080	0.0075	mg/L	0.00080	10.65%
Ti 337.279†	6427.7	0.3319	mg/L	0.00691	0.3319	mg/L	0.00691	2.08%
Tl 351.924†	-488.9	-0.0022	mg/L	0.00592	-0.0022	mg/L	0.00592	272.85%
V 290.880†	11065.2	0.0639	mg/L	0.00023	0.0639	mg/L	0.00023	0.35%
Zn 206.200†	18324.1	0.3987	mg/L	0.00482	0.3987	mg/L	0.00482	1.21%
Zr 343.823†	4900.5	0.0127	mg/L	0.00031	0.0127	mg/L	0.00031	2.47%

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Sequence No.: 94
Sample ID: 24E1437-15@10X
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 104
Date Collected: 5/23/2024 12:22:03 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Wash Time: 110 **Auto Dilution Factor: 1**

Mean Data: 24E1437-15@10X

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	3898374.0	93.41	%	1.885				2.02%
Y radial	188680.5	91.40	%	0.238				0.26%
Ag 328.068†	-862.1	-0.0022	mg/L	0.00056	-0.0022	mg/L	0.00056	25.39%
Al 396.153†	148818.1	38.90	mg/L	0.061	38.90	mg/L	0.061	0.16%
As 188.979†	-20.8	0.0193	mg/L	0.00230	0.0193	mg/L	0.00230	11.95%
B 208.889†	484.6	0.0341	mg/L	0.00149	0.0341	mg/L	0.00149	4.36%
Ba 233.527†	51238.7	0.4098	mg/L	0.00863	0.4098	mg/L	0.00863	2.11%
Be 313.107†	796.9	0.0016	mg/L	0.00005	0.0016	mg/L	0.00005	2.83%
Ca 317.933†	453259.4	64.65	mg/L	0.271	64.65	mg/L	0.271	0.42%
Cd 228.802†	-9.6	0.0013	mg/L	0.00008	0.0013	mg/L	0.00008	6.26%
Co 228.616†	2578.0	0.0345	mg/L	0.00075	0.0345	mg/L	0.00075	2.18%
Cr 267.716†	6071.3	0.0647	mg/L	0.00149	0.0647	mg/L	0.00149	2.30%
Cu 327.393†	19614.6	0.1364	mg/L	0.00288	0.1364	mg/L	0.00288	2.11%
Fe 238.204†	206071.4	81.64	mg/L	0.327	81.64	mg/L	0.327	0.40%
K 766.490†	14870.8	4.776	mg/L	0.0227	4.776	mg/L	0.0227	0.47%
Mg 285.213†	142846.8	14.88	mg/L	0.033	14.88	mg/L	0.033	0.22%
Mn 257.610†	46747.0	1.648	mg/L	0.0067	1.648	mg/L	0.0067	0.41%
Mo 202.031†	-7.7	-0.0004	mg/L	0.00005	-0.0004	mg/L	0.00005	11.21%
Na 589.592†	1570.4	0.1881	mg/L	0.00165	0.1881	mg/L	0.00165	0.88%
Ni 231.604†	2780.8	0.0978	mg/L	0.00248	0.0978	mg/L	0.00248	2.54%
Pb 220.353†	5877.2	0.6792	mg/L	0.01453	0.6792	mg/L	0.01453	2.14%
Sb 206.836†	1.0	0.0028	mg/L	0.00130	0.0028	mg/L	0.00130	46.71%
Se 196.026†	1.3	-0.0064	mg/L	0.00634	-0.0064	mg/L	0.00634	99.64%
Sn 189.927†	-190.6	-0.0320	mg/L	0.00162	-0.0320	mg/L	0.00162	5.06%
Ti 337.279†	5624.5	0.2904	mg/L	0.00226	0.2904	mg/L	0.00226	0.78%
Tl 351.924†	-466.8	0.0040	mg/L	0.00335	0.0040	mg/L	0.00335	83.59%
V 290.880†	11453.5	0.0658	mg/L	0.00236	0.0658	mg/L	0.00236	3.59%
Zn 206.200†	19792.3	0.4307	mg/L	0.01006	0.4307	mg/L	0.01006	2.33%
Zr 343.823†	5710.7	0.0150	mg/L	0.00040	0.0150	mg/L	0.00040	2.70%

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Sequence No.: 95 **Autosampler Location: 105**
Sample ID: 24E1437-16@10X **Date Collected: 5/23/2024 12:27:37 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 110 **Auto Dilution Factor: 1**

Mean Data: 24E1437-16@10X

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	3908838.0	93.66	%	1.601				1.71%
Y radial	188013.8	91.08	%	1.013				1.11%
Ag 328.068†	-898.5	-0.0022	mg/L	0.00054	-0.0022	mg/L	0.00054	24.21%
Al 396.153†	170192.2	44.49	mg/L	0.069	44.49	mg/L	0.069	0.16%
As 188.979†	-29.0	0.0178	mg/L	0.00164	0.0178	mg/L	0.00164	9.20%
B 208.889†	432.9	0.0305	mg/L	0.00053	0.0305	mg/L	0.00053	1.74%
Ba 233.527†	44644.5	0.3545	mg/L	0.00843	0.3545	mg/L	0.00843	2.38%
Be 313.107†	958.8	0.0020	mg/L	0.00005	0.0020	mg/L	0.00005	2.38%
Ca 317.933†	85554.6	12.20	mg/L	0.022	12.20	mg/L	0.022	0.18%
Cd 228.802†	-20.7	0.0013	mg/L	0.00008	0.0013	mg/L	0.00008	5.98%
Co 228.616†	3038.2	0.0406	mg/L	0.00081	0.0406	mg/L	0.00081	1.98%
Cr 267.716†	5970.3	0.0636	mg/L	0.00213	0.0636	mg/L	0.00213	3.36%
Cu 327.393†	22042.0	0.1533	mg/L	0.00363	0.1533	mg/L	0.00363	2.37%
Fe 238.204†	227748.0	90.22	mg/L	0.268	90.22	mg/L	0.268	0.30%
K 766.490†	14964.1	4.806	mg/L	0.0107	4.806	mg/L	0.0107	0.22%
Mg 285.213†	167384.4	17.45	mg/L	0.011	17.45	mg/L	0.011	0.07%
Mn 257.610†	52919.2	1.865	mg/L	0.0061	1.865	mg/L	0.0061	0.33%
Mo 202.031†	-22.7	-0.0012	mg/L	0.00048	-0.0012	mg/L	0.00048	40.21%
Na 589.592†	1393.3	0.1668	mg/L	0.00231	0.1668	mg/L	0.00231	1.39%
Ni 231.604†	3294.2	0.1158	mg/L	0.00251	0.1158	mg/L	0.00251	2.17%
Pb 220.353†	3529.3	0.4091	mg/L	0.00668	0.4091	mg/L	0.00668	1.63%
Sb 206.836†	-12.7	0.0004	mg/L	0.00096	0.0004	mg/L	0.00096	268.15%

Se 196.026†	5.6	0.0020 mg/L	0.00397	0.0020 mg/L	0.00397	196.68%
Sn 189.927†	-37.2	-0.0063 mg/L	0.00038	-0.0063 mg/L	0.00038	6.09%
Ti 337.279†	6900.3	0.3563 mg/L	0.00419	0.3563 mg/L	0.00419	1.18%
Tl 351.924†	-511.5	0.0048 mg/L	0.00409	0.0048 mg/L	0.00409	85.86%
V 290.880†	12476.6	0.0717 mg/L	0.00202	0.0717 mg/L	0.00202	2.82%
Zn 206.200†	21612.7	0.4702 mg/L	0.01272	0.4702 mg/L	0.01272	2.70%
Zr 343.823†	6817.0	0.0180 mg/L	0.00063	0.0180 mg/L	0.00063	3.47%

Sequence No.: 96 **Autosampler Location: 106**
Sample ID: 24E1437-17@10X **Date Collected: 5/23/2024 12:33:10 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 110 **Auto Dilution Factor: 1**

Mean Data: 24E1437-17@10X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y axial	3964867.6	95.00	%	1.574				1.66%
Y radial	188225.1	91.18	%	0.774				0.85%
Ag 328.068†	-420.0	-0.0007	mg/L	0.00019	-0.0007	mg/L	0.00019	27.01%
Al 396.153†	121091.7	31.65	mg/L	0.125	31.65	mg/L	0.125	0.39%
As 188.979†	-20.9	0.0106	mg/L	0.00164	0.0106	mg/L	0.00164	15.46%
B 208.889†	397.1	0.0280	mg/L	0.00026	0.0280	mg/L	0.00026	0.93%
Ba 233.527†	31232.3	0.2487	mg/L	0.00529	0.2487	mg/L	0.00529	2.13%
Be 313.107†	517.4	0.0009	mg/L	0.00002	0.0009	mg/L	0.00002	2.15%
Ca 317.933†	95338.5	13.60	mg/L	0.082	13.60	mg/L	0.082	0.60%
Cd 228.802†	3.5	0.0011	mg/L	0.00006	0.0011	mg/L	0.00006	6.13%
Co 228.616†	1594.7	0.0213	mg/L	0.00045	0.0213	mg/L	0.00045	2.11%
Cr 267.716†	4364.7	0.0464	mg/L	0.00088	0.0464	mg/L	0.00088	1.91%
Cu 327.393†	12546.0	0.0873	mg/L	0.00165	0.0873	mg/L	0.00165	1.89%
Fe 238.204†	147580.9	58.46	mg/L	0.348	58.46	mg/L	0.348	0.60%
K 766.490†	7620.2	2.447	mg/L	0.0283	2.447	mg/L	0.0283	1.16%
Mg 285.213†	108320.2	11.29	mg/L	0.059	11.29	mg/L	0.059	0.52%
Mn 257.610†	43640.0	1.537	mg/L	0.0109	1.537	mg/L	0.0109	0.71%
Mo 202.031†	-18.2	-0.0010	mg/L	0.00024	-0.0010	mg/L	0.00024	24.39%
Na 589.592†	931.3	0.1115	mg/L	0.00167	0.1115	mg/L	0.00167	1.50%
Ni 231.604†	1508.3	0.0530	mg/L	0.00124	0.0530	mg/L	0.00124	2.33%
Pb 220.353†	4325.4	0.5003	mg/L	0.01091	0.5003	mg/L	0.01091	2.18%
Sb 206.836†	-5.2	0.0008	mg/L	0.00140	0.0008	mg/L	0.00140	179.32%
Se 196.026†	6.4	0.0028	mg/L	0.00278	0.0028	mg/L	0.00278	100.47%
Sn 189.927†	-87.7	-0.0147	mg/L	0.00036	-0.0147	mg/L	0.00036	2.43%
Ti 337.279†	4278.5	0.2209	mg/L	0.00124	0.2209	mg/L	0.00124	0.56%
Tl 351.924†	-393.0	-0.0033	mg/L	0.00273	-0.0033	mg/L	0.00273	83.54%
V 290.880†	11544.2	0.0681	mg/L	0.00206	0.0681	mg/L	0.00206	3.03%
Zn 206.200†	14146.4	0.3078	mg/L	0.00513	0.3078	mg/L	0.00513	1.67%
Zr 343.823†	3599.6	0.0093	mg/L	0.00042	0.0093	mg/L	0.00042	4.50%

Sequence No.: 97 **Autosampler Location: 107**
Sample ID: 24E1437-18@10X **Date Collected: 5/23/2024 12:38:43 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 110 **Auto Dilution Factor: 1**

Mean Data: 24E1437-18@10X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y axial	3993253.3	95.69	%	1.003				1.05%
Y radial	185386.3	89.81	%	0.393				0.44%
Ag 328.068†	-567.0	-0.0012	mg/L	0.00028	-0.0012	mg/L	0.00028	24.05%
Al 396.153†	133067.7	34.78	mg/L	0.147	34.78	mg/L	0.147	0.42%
As 188.979†	-28.0	0.0100	mg/L	0.00160	0.0100	mg/L	0.00160	15.96%
B 208.889†	378.0	0.0267	mg/L	0.00064	0.0267	mg/L	0.00064	2.40%
Ba 233.527†	34399.3	0.2738	mg/L	0.00092	0.2738	mg/L	0.00092	0.34%
Be 313.107†	605.3	0.0010	mg/L	0.00002	0.0010	mg/L	0.00002	2.24%

Ca 317.933†	187488.0	26.74 mg/L	0.130	26.74 mg/L	0.130	0.49%
Cd 228.802†	24.8	0.0015 mg/L	0.00011	0.0015 mg/L	0.00011	7.55%
Co 228.616†	1721.7	0.0229 mg/L	0.00036	0.0229 mg/L	0.00036	1.58%
Cr 267.716†	5406.6	0.0575 mg/L	0.00060	0.0575 mg/L	0.00060	1.04%
Cu 327.393†	14465.8	0.1006 mg/L	0.00039	0.1006 mg/L	0.00039	0.39%
Fe 238.204†	165429.1	65.53 mg/L	0.282	65.53 mg/L	0.282	0.43%
K 766.490†	8135.2	2.613 mg/L	0.0106	2.613 mg/L	0.0106	0.41%
Mg 285.213†	187989.4	19.57 mg/L	0.087	19.57 mg/L	0.087	0.45%
Mn 257.610†	53302.7	1.877 mg/L	0.0041	1.877 mg/L	0.0041	0.22%
Mo 202.031†	-20.4	-0.0011 mg/L	0.00027	-0.0011 mg/L	0.00027	25.17%
Na 589.592†	953.1	0.1141 mg/L	0.00067	0.1141 mg/L	0.00067	0.58%
Ni 231.604†	1826.0	0.0642 mg/L	0.00111	0.0642 mg/L	0.00111	1.73%
Pb 220.353†	5059.0	0.5849 mg/L	0.00885	0.5849 mg/L	0.00885	1.51%
Sb 206.836†	-4.1	0.0011 mg/L	0.00062	0.0011 mg/L	0.00062	54.89%
Se 196.026†	4.9	-0.0013 mg/L	0.00509	-0.0013 mg/L	0.00509	405.35%
Sn 189.927†	-157.8	-0.0265 mg/L	0.00028	-0.0265 mg/L	0.00028	1.06%
Ti 337.279†	4644.7	0.2398 mg/L	0.00181	0.2398 mg/L	0.00181	0.76%
Tl 351.924†	-354.5	0.0051 mg/L	0.00562	0.0051 mg/L	0.00562	110.42%
V 290.880†	15716.3	0.0937 mg/L	0.00070	0.0937 mg/L	0.00070	0.75%
Zn 206.200†	17041.5	0.3712 mg/L	0.00299	0.3712 mg/L	0.00299	0.81%
Zr 343.823†	3973.4	0.0102 mg/L	0.00013	0.0102 mg/L	0.00013	1.32%

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Sequence No.: 98 **Autosampler Location: 5**
Sample ID: SEQ-CCV@ 23J0975 **Date Collected: 5/23/2024 12:44:16 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 110 **Auto Dilution Factor: 1**

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y axial	3893657.0	93.30	%	0.843				0.90%
Y radial	183976.3	89.12	%	1.166				1.31%
Ag 328.068†	572473.1	2.456	mg/L	0.0153	2.456	mg/L	0.0153	0.62%
QC value within limits for Ag 328.068 Recovery = 98.25%								
Al 396.153†	39132.1	9.955	mg/L	0.0317	9.955	mg/L	0.0317	0.32%
QC value within limits for Al 396.153 Recovery = 99.55%								
As 188.979†	11408.8	4.963	mg/L	0.0667	4.963	mg/L	0.0667	1.34%
QC value within limits for As 188.979 Recovery = 99.26%								
B 208.889†	71023.4	4.740	mg/L	0.0304	4.740	mg/L	0.0304	0.64%
QC value within limits for B 208.889 Recovery = 94.79%								
Ba 233.527†	637000.3	5.236	mg/L	0.0116	5.236	mg/L	0.0116	0.22%
QC value within limits for Ba 233.527 Recovery = 104.73%								
Be 313.107†	1965500.0	4.834	mg/L	0.0940	4.834	mg/L	0.0940	1.94%
QC value within limits for Be 313.107 Recovery = 96.68%								
Ca 317.933†	72252.3	10.31	mg/L	0.042	10.31	mg/L	0.042	0.41%
QC value within limits for Ca 317.933 Recovery = 103.05%								
Cd 228.802†	438816.6	5.151	mg/L	0.0189	5.151	mg/L	0.0189	0.37%
QC value within limits for Cd 228.802 Recovery = 103.01%								
Co 228.616†	380899.2	5.194	mg/L	0.0189	5.194	mg/L	0.0189	0.36%
QC value within limits for Co 228.616 Recovery = 103.88%								
Cr 267.716†	479742.3	5.172	mg/L	0.0107	5.172	mg/L	0.0107	0.21%
QC value within limits for Cr 267.716 Recovery = 103.44%								
Cu 327.393†	692438.8	4.832	mg/L	0.0290	4.832	mg/L	0.0290	0.60%
QC value within limits for Cu 327.393 Recovery = 96.64%								
Fe 238.204†	12815.7	5.104	mg/L	0.0221	5.104	mg/L	0.0221	0.43%
QC value within limits for Fe 238.204 Recovery = 102.08%								
K 766.490†	31005.5	9.958	mg/L	0.0383	9.958	mg/L	0.0383	0.38%
QC value within limits for K 766.490 Recovery = 99.58%								
Mg 285.213†	98991.8	10.25	mg/L	0.024	10.25	mg/L	0.024	0.23%
QC value within limits for Mg 285.213 Recovery = 102.55%								
Mn 257.610†	143814.9	5.051	mg/L	0.0137	5.051	mg/L	0.0137	0.27%
QC value within limits for Mn 257.610 Recovery = 101.01%								
Mo 202.031†	97088.3	5.152	mg/L	0.0248	5.152	mg/L	0.0248	0.48%
QC value within limits for Mo 202.031 Recovery = 103.05%								
Na 589.592†	82826.1	9.918	mg/L	0.1678	9.918	mg/L	0.1678	1.69%
QC value within limits for Na 589.592 Recovery = 99.18%								

Ni 231.604†	146710.3	5.157 mg/L	0.0136	5.157 mg/L	0.0136	0.26%
QC value within limits for Ni 231.604 Recovery = 103.13%						
Pb 220.353†	44577.9	5.140 mg/L	0.0728	5.140 mg/L	0.0728	1.42%
QC value within limits for Pb 220.353 Recovery = 102.80%						
Sb 206.836†	22802.3	4.927 mg/L	0.0688	4.927 mg/L	0.0688	1.40%
QC value within limits for Sb 206.836 Recovery = 98.55%						
Se 196.026†	6570.8	5.011 mg/L	0.0779	5.011 mg/L	0.0779	1.56%
QC value within limits for Se 196.026 Recovery = 100.22%						
Sn 189.927†	30712.9	5.150 mg/L	0.0796	5.150 mg/L	0.0796	1.55%
QC value within limits for Sn 189.927 Recovery = 103.00%						
Ti 337.279†	96683.3	4.989 mg/L	0.0044	4.989 mg/L	0.0044	0.09%
QC value within limits for Ti 337.279 Recovery = 99.78%						
Tl 351.924†	24024.5	2.414 mg/L	0.0334	2.414 mg/L	0.0334	1.38%
QC value within limits for Tl 351.924 Recovery = 96.58%						
V 290.880†	835353.6	5.226 mg/L	0.0257	5.226 mg/L	0.0257	0.49%
QC value within limits for V 290.880 Recovery = 104.52%						
Zn 206.200†	241653.4	5.349 mg/L	0.0159	5.349 mg/L	0.0159	0.30%
QC value within limits for Zn 206.200 Recovery = 106.98%						
Zr 343.823†	1698911.8	5.028 mg/L	0.0117	5.028 mg/L	0.0117	0.23%

All analyte(s) passed QC.

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Sequence No.: 99 **Autosampler Location: 1**
Sample ID: SEQ-CCB@ 23J0970 **Date Collected: 5/23/2024 12:50:53 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 230 **Auto Dilution Factor: 1**

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	3959436.9	94.87	%	0.755				0.80%
Y radial	190359.6	92.22	%	2.114				2.29%
Ag 328.068†	377.7	0.0016	mg/L	0.00030	0.0016	mg/L	0.00030	18.57%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	18.2	0.0047	mg/L	0.00428	0.0047	mg/L	0.00428	91.51%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	-0.8	-0.0003	mg/L	0.00052	-0.0003	mg/L	0.00052	160.27%
QC value within limits for As 188.979 Recovery = Not calculated								
B 208.889†	392.4	0.0275	mg/L	0.00047	0.0275	mg/L	0.00047	1.69%
QC value within limits for B 208.889 Recovery = Not calculated								
Ba 233.527†	15.6	0.0001	mg/L	0.00004	0.0001	mg/L	0.00004	29.51%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-86.4	-0.0002	mg/L	0.00004	-0.0002	mg/L	0.00004	21.11%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	43.6	0.0062	mg/L	0.00631	0.0062	mg/L	0.00631	101.46%
QC value within limits for Ca 317.933 Recovery = Not calculated								
Cd 228.802†	20.6	0.0002	mg/L	0.00012	0.0002	mg/L	0.00012	50.09%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	-226.0	-0.0031	mg/L	0.00010	-0.0031	mg/L	0.00010	3.30%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-270.4	-0.0029	mg/L	0.00004	-0.0029	mg/L	0.00004	1.44%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	2055.6	0.0143	mg/L	0.00036	0.0143	mg/L	0.00036	2.49%
QC value greater than the upper limit for Cu 327.393 Recovery = Not calculated								
Fe 238.204†	39.4	0.0156	mg/L	0.00426	0.0156	mg/L	0.00426	27.29%
QC value within limits for Fe 238.204 Recovery = Not calculated								
K 766.490†	97.2	0.0312	mg/L	0.00954	0.0312	mg/L	0.00954	30.54%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213†	-464.1	-0.0482	mg/L	0.00126	-0.0482	mg/L	0.00126	2.62%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610†	-57.1	-0.0020	mg/L	0.00012	-0.0020	mg/L	0.00012	6.05%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	33.8	0.0018	mg/L	0.00025	0.0018	mg/L	0.00025	13.96%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592†	28.0	0.0034	mg/L	0.00818	0.0034	mg/L	0.00818	244.15%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604†	-194.6	-0.0068	mg/L	0.00028	-0.0068	mg/L	0.00028	4.11%

QC value within limits for Ni 231.604 Recovery = Not calculated

Pb 220.353†	1.2	0.0001 mg/L	0.00077	0.0001 mg/L	0.00077	727.35%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	-0.5	-0.0001 mg/L	0.00126	-0.0001 mg/L	0.00126	>999.9%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	1.4	0.0011 mg/L	0.00150	0.0011 mg/L	0.00150	135.32%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	7.7	0.0013 mg/L	0.00059	0.0013 mg/L	0.00059	45.50%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	25.9	0.0013 mg/L	0.00007	0.0013 mg/L	0.00007	5.01%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 351.924†	15.5	0.0016 mg/L	0.00185	0.0016 mg/L	0.00185	115.73%
QC value within limits for Tl 351.924 Recovery = Not calculated						
V 290.880†	-462.8	-0.0029 mg/L	0.00034	-0.0029 mg/L	0.00034	11.73%
QC value within limits for V 290.880 Recovery = Not calculated						
Zn 206.200†	221.9	0.0049 mg/L	0.00029	0.0049 mg/L	0.00029	5.99%
QC value within limits for Zn 206.200 Recovery = Not calculated						
Zr 343.823†	-7.0	-0.0000 mg/L	0.00013	-0.0000 mg/L	0.00013	617.15%

QC Failed. Continue with analysis.

Sequence No.: 100 **Autosampler Location: 108**
Sample ID: 24E1437-19@10X **Date Collected: 5/23/2024 12:56:24 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 110 **Auto Dilution Factor: 1**

Mean Data: 24E1437-19@10X

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	3901011.2	93.47	%	1.269				1.36%
Y radial	186881.6	90.53	%	1.184				1.31%
Ag 328.068†	-456.7	-0.0010	mg/L	0.00044	-0.0010	mg/L	0.00044	46.10%
Al 396.153†	116092.6	30.35	mg/L	0.044	30.35	mg/L	0.044	0.14%
As 188.979†	-16.0	0.0116	mg/L	0.00126	0.0116	mg/L	0.00126	10.86%
B 208.889†	473.9	0.0334	mg/L	0.00115	0.0334	mg/L	0.00115	3.45%
Ba 233.527†	29511.9	0.2350	mg/L	0.00427	0.2350	mg/L	0.00427	1.82%
Be 313.107†	539.3	0.0010	mg/L	0.00005	0.0010	mg/L	0.00005	4.69%
Ca 317.933†	78633.1	11.22	mg/L	0.063	11.22	mg/L	0.063	0.56%
Cd 228.802†	12.6	0.0011	mg/L	0.00007	0.0011	mg/L	0.00007	6.72%
Co 228.616†	1548.3	0.0206	mg/L	0.00043	0.0206	mg/L	0.00043	2.08%
Cr 267.716†	4019.2	0.0427	mg/L	0.00041	0.0427	mg/L	0.00041	0.97%
Cu 327.393†	12847.7	0.0894	mg/L	0.00179	0.0894	mg/L	0.00179	2.00%
Fe 238.204†	138365.9	54.81	mg/L	0.226	54.81	mg/L	0.226	0.41%
K 766.490†	7476.2	2.401	mg/L	0.0411	2.401	mg/L	0.0411	1.71%
Mg 285.213†	98931.2	10.31	mg/L	0.031	10.31	mg/L	0.031	0.30%
Mn 257.610†	40756.1	1.435	mg/L	0.0242	1.435	mg/L	0.0242	1.69%
Mo 202.031†	-4.4	-0.0002	mg/L	0.00034	-0.0002	mg/L	0.00034	144.58%
Na 589.592†	788.6	0.0944	mg/L	0.00259	0.0944	mg/L	0.00259	2.74%
Ni 231.604†	1422.2	0.0500	mg/L	0.00110	0.0500	mg/L	0.00110	2.19%
Pb 220.353†	3783.9	0.4378	mg/L	0.00391	0.4378	mg/L	0.00391	0.89%
Sb 206.836†	-6.8	0.0003	mg/L	0.00022	0.0003	mg/L	0.00022	66.34%
Se 196.026†	6.8	0.0034	mg/L	0.00323	0.0034	mg/L	0.00323	94.99%
Sn 189.927†	-64.8	-0.0109	mg/L	0.00037	-0.0109	mg/L	0.00037	3.36%
Ti 337.279†	4144.0	0.2140	mg/L	0.00414	0.2140	mg/L	0.00414	1.93%
Tl 351.924†	-300.9	0.0038	mg/L	0.00270	0.0038	mg/L	0.00270	70.41%
V 290.880†	10159.7	0.0597	mg/L	0.00203	0.0597	mg/L	0.00203	3.40%
Zn 206.200†	14193.7	0.3091	mg/L	0.00527	0.3091	mg/L	0.00527	1.70%
Zr 343.823†	3772.1	0.0099	mg/L	0.00055	0.0099	mg/L	0.00055	5.58%

Sequence No.: 101 **Autosampler Location: 7**
Sample ID: RINSE **Date Collected: 5/23/2024 1:01:56 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 110 **Auto Dilution Factor: 1**

Mean Data: RINSE

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y axial	3972791.7	95.19	%	0.890				0.93%
Y radial	185575.7	89.90	%	2.614				2.91%
Ag 328.068†	361.1	0.0015	mg/L	0.00012	0.0015	mg/L	0.00012	8.00%
Al 396.153†	25.9	0.0067	mg/L	0.00779	0.0067	mg/L	0.00779	115.45%
As 188.979†	2.2	0.0010	mg/L	0.00134	0.0010	mg/L	0.00134	135.75%
B 208.889†	300.3	0.0211	mg/L	0.00037	0.0211	mg/L	0.00037	1.76%
Ba 233.527†	10.8	0.0001	mg/L	0.00005	0.0001	mg/L	0.00005	54.78%
Be 313.107†	-153.1	-0.0004	mg/L	0.00006	-0.0004	mg/L	0.00006	17.12%
Ca 317.933†	41.3	0.0059	mg/L	0.00677	0.0059	mg/L	0.00677	114.86%
Cd 228.802†	14.6	0.0001	mg/L	0.00007	0.0001	mg/L	0.00007	48.26%
Co 228.616†	-242.3	-0.0033	mg/L	0.00010	-0.0033	mg/L	0.00010	3.11%
Cr 267.716†	-261.0	-0.0028	mg/L	0.00005	-0.0028	mg/L	0.00005	1.77%
Cu 327.393†	823.4	0.0057	mg/L	0.00027	0.0057	mg/L	0.00027	4.72%
Fe 238.204†	7.2	0.0028	mg/L	0.00203	0.0028	mg/L	0.00203	71.35%
K 766.490†	71.1	0.0228	mg/L	0.00267	0.0228	mg/L	0.00267	11.70%
Mg 285.213†	-405.8	-0.0421	mg/L	0.00131	-0.0421	mg/L	0.00131	3.12%
Mn 257.610†	-44.7	-0.0016	mg/L	0.00004	-0.0016	mg/L	0.00004	2.86%
Mo 202.031†	11.0	0.0006	mg/L	0.00008	0.0006	mg/L	0.00008	14.49%
Na 589.592†	1.2	0.0001	mg/L	0.00119	0.0001	mg/L	0.00119	796.59%
Ni 231.604†	-224.9	-0.0079	mg/L	0.00009	-0.0079	mg/L	0.00009	1.12%
Pb 220.353†	-1.4	-0.0002	mg/L	0.00066	-0.0002	mg/L	0.00066	373.21%
Sb 206.836†	-3.4	-0.0007	mg/L	0.00087	-0.0007	mg/L	0.00087	126.26%
Se 196.026†	2.4	0.0019	mg/L	0.00110	0.0019	mg/L	0.00110	59.03%
Sn 189.927†	3.1	0.0005	mg/L	0.00088	0.0005	mg/L	0.00088	167.39%
Ti 337.279†	22.0	0.0011	mg/L	0.00059	0.0011	mg/L	0.00059	52.41%
Tl 351.924†	54.0	0.0055	mg/L	0.00471	0.0055	mg/L	0.00471	85.01%
V 290.880†	-598.9	-0.0037	mg/L	0.00076	-0.0037	mg/L	0.00076	20.40%
Zn 206.200†	56.0	0.0012	mg/L	0.00014	0.0012	mg/L	0.00014	12.05%
Zr 343.823†	4.1	0.0000	mg/L	0.00011	0.0000	mg/L	0.00011	895.17%

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Sequence No.: 102 **Autosampler Location: 11**
Sample ID: SEQ-IFA@ 23I0975 **Date Collected: 5/23/2024 1:07:27 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 110 **Auto Dilution Factor: 1**

Mean Data: SEQ-IFA@ 23I0975

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y axial	3597277.9	86.20	%	0.593				0.69%
Y radial	180401.0	87.39	%	0.556				0.64%
Ag 328.068†	-1445.0	-0.0042	mg/L	0.00011	-0.0042	mg/L	0.00011	2.58%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	970746.2	253.7	mg/L	0.98	253.7	mg/L	0.98	0.38%
QC value within limits for Al 396.153 Recovery = 101.49%								
As 188.979†	-91.2	-0.0053	mg/L	0.00398	-0.0053	mg/L	0.00398	75.33%
QC value within limits for As 188.979 Recovery = Not calculated								
B 208.889†	267.4	0.0190	mg/L	0.00063	0.0190	mg/L	0.00063	3.33%
QC value within limits for B 208.889 Recovery = Not calculated								
Ba 233.527†	1245.7	-0.0026	mg/L	0.00010	-0.0026	mg/L	0.00010	3.94%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-114.6	-0.0003	mg/L	0.00006	-0.0003	mg/L	0.00006	17.76%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	1760520.4	251.1	mg/L	1.23	251.1	mg/L	1.23	0.49%
QC value within limits for Ca 317.933 Recovery = 100.44%								
Cd 228.802†	-111.8	0.0008	mg/L	0.00025	0.0008	mg/L	0.00025	31.94%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	-247.9	-0.0034	mg/L	0.00011	-0.0034	mg/L	0.00011	3.10%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	34.9	0.0004	mg/L	0.00026	0.0004	mg/L	0.00026	68.43%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	281.4	0.0020	mg/L	0.00023	0.0020	mg/L	0.00023	11.81%
QC value within limits for Cu 327.393 Recovery = Not calculated								

Fe 238.204†	245073.7	97.09 mg/L	0.283	97.09 mg/L	0.283	0.29%
QC value within limits for Fe 238.204 Recovery = 97.09%						
K 766.490†	171.6	0.0551 mg/L	0.00914	0.0551 mg/L	0.00914	16.58%
QC value within limits for K 766.490 Recovery = Not calculated						
Mg 285.213†	2282588.1	237.0 mg/L	0.97	237.0 mg/L	0.97	0.41%
QC value within limits for Mg 285.213 Recovery = 94.82%						
Mn 257.610†	-152.7	0.0022 mg/L	0.00025	0.0022 mg/L	0.00025	11.42%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	-71.3	-0.0038 mg/L	0.00024	-0.0038 mg/L	0.00024	6.35%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592†	353.8	0.0424 mg/L	0.00759	0.0424 mg/L	0.00759	17.92%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	44.5	0.0016 mg/L	0.00038	0.0016 mg/L	0.00038	23.69%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	-158.2	0.0102 mg/L	0.00222	0.0102 mg/L	0.00222	21.71%
QC value greater than the upper limit for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	20.1	0.0084 mg/L		0.0084 mg/L	0.00092	10.94%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	53.0	-0.0293 mg/L	0.00432	-0.0293 mg/L	0.00432	14.74%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-500.1	-0.0839 mg/L	0.00202	-0.0839 mg/L	0.00202	2.40%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	37.9	0.0020 mg/L	0.00030	0.0020 mg/L	0.00030	15.14%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 351.924†	-611.3	0.0005 mg/L	0.00131	0.0005 mg/L	0.00131	240.22%
QC value within limits for Tl 351.924 Recovery = Not calculated						
V 290.880†	1045.1	-0.0005 mg/L	0.00033	-0.0005 mg/L	0.00033	65.32%
QC value within limits for V 290.880 Recovery = Not calculated						
Zn 206.200†	198.1	-0.0024 mg/L	0.00020	-0.0024 mg/L	0.00020	8.27%
QC value within limits for Zn 206.200 Recovery = Not calculated						
Zr 343.823†	1048.0	0.0008 mg/L	0.00011	0.0008 mg/L	0.00011	13.94%

QC Failed. Continue with analysis.

SOIL/TCLP OK- JLC 05/23/24

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Sequence No.: 103 **Autosampler Location: 12**
Sample ID: SEQ-IFB@ 23I0976 **Date Collected: 5/23/2024 1:13:00 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 110 **Auto Dilution Factor: 1**

Mean Data: SEQ-IFB@ 23I0976

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	3623718.4	86.83	%	0.140				0.16%
Y radial	183382.9	88.84	%	1.548				1.74%
Ag 328.068†	86015.9	0.3785	mg/L	0.00497	0.3785	mg/L	0.00497	1.31%
QC value within limits for Ag 328.068 Recovery = 94.63%								
Al 396.153†	954548.5	249.5	mg/L	0.98	249.5	mg/L	0.98	0.39%
QC value within limits for Al 396.153 Recovery = 99.80%								
As 188.979†	359.1	0.1856	mg/L	0.00271	0.1856	mg/L	0.00271	1.46%
QC value within limits for As 188.979 Recovery = 92.78%								
B 208.889†	238.7	0.0170	mg/L	0.00108	0.0170	mg/L	0.00108	6.32%
QC value within limits for B 208.889 Recovery = Not calculated								
Ba 233.527†	124611.3	1.011	mg/L	0.0021	1.011	mg/L	0.0021	0.20%
QC value within limits for Ba 233.527 Recovery = 101.14%								
Be 313.107†	406144.9	0.9991	mg/L	0.00038	0.9991	mg/L	0.00038	0.04%
QC value within limits for Be 313.107 Recovery = 99.91%								
Ca 317.933†	1727332.2	246.4	mg/L	0.34	246.4	mg/L	0.34	0.14%
QC value within limits for Ca 317.933 Recovery = 98.55%								
Cd 228.802†	174818.7	2.090	mg/L	0.0025	2.090	mg/L	0.0025	0.12%
QC value within limits for Cd 228.802 Recovery = 104.49%								
Co 228.616†	68917.9	0.9383	mg/L	0.00084	0.9383	mg/L	0.00084	0.09%
QC value within limits for Co 228.616 Recovery = 93.83%								
Cr 267.716†	92663.6	0.9992	mg/L	0.00252	0.9992	mg/L	0.00252	0.25%
QC value within limits for Cr 267.716 Recovery = 99.92%								
Cu 327.393†	143873.1	1.000	mg/L	0.0034	1.000	mg/L	0.0034	0.34%
QC value within limits for Cu 327.393 Recovery = 100.02%								
Fe 238.204†	242839.0	96.20	mg/L	0.139	96.20	mg/L	0.139	0.14%

QC value within limits for Fe 238.204 Recovery = 96.20%

K 766.490†	61.4	0.0197 mg/L	0.00105	0.0197 mg/L	0.00105	5.31%
QC value within limits for K 766.490 Recovery = Not calculated						
Mg 285.213†	2232150.9	231.8 mg/L	0.91	231.8 mg/L	0.91	0.39%
QC value within limits for Mg 285.213 Recovery = 92.72%						
Mn 257.610†	27029.7	0.9567 mg/L	0.02168	0.9567 mg/L	0.02168	2.27%
QC value within limits for Mn 257.610 Recovery = 95.67%						
Mo 202.031†	-83.7	-0.0044 mg/L	0.00018	-0.0044 mg/L	0.00018	4.06%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592†	319.5	0.0383 mg/L	0.00217	0.0383 mg/L	0.00217	5.66%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	52368.2	1.841 mg/L	0.0046	1.841 mg/L	0.0046	0.25%
QC value within limits for Ni 231.604 Recovery = 92.05%						
Pb 220.353†	663.2	0.1035 mg/L	0.00114	0.1035 mg/L	0.00114	1.10%
QC value within limits for Pb 220.353 Recovery = 103.51%						
Sb 206.836†	5060.7	1.090 mg/L	0.0020	1.090 mg/L	0.0020	0.18%
QC value within limits for Sb 206.836 Recovery = 90.81%						
Se 196.026†	762.2	0.5126 mg/L	0.00525	0.5126 mg/L	0.00525	1.02%
QC value within limits for Se 196.026 Recovery = 102.52%						
Sn 189.927†	-502.6	-0.0844 mg/L	0.00026	-0.0844 mg/L	0.00026	0.31%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	38.3	0.0020 mg/L	0.00052	0.0020 mg/L	0.00052	26.34%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 351.924†	1400.1	0.2013 mg/L	0.00063	0.2013 mg/L	0.00063	0.32%
QC value within limits for Tl 351.924 Recovery = 100.65%						
V 290.880†	164014.8	1.019 mg/L	0.0022	1.019 mg/L	0.0022	0.22%
QC value within limits for V 290.880 Recovery = 101.91%						
Zn 206.200†	88444.5	1.947 mg/L	0.0046	1.947 mg/L	0.0046	0.23%
QC value within limits for Zn 206.200 Recovery = 97.37%						
Zr 343.823†	1098.2	0.0010 mg/L	0.00005	0.0010 mg/L	0.00005	5.06%

All analyte(s) passed QC.

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Sequence No.: 104 **Autosampler Location: 5**
Sample ID: SEQ-CCV@ 23J0975 **Date Collected: 5/23/2024 1:18:31 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 110 **Auto Dilution Factor: 1**

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	3893009.7	93.28	%	0.683				0.73%
Y radial	188193.6	91.17	%	0.466				0.51%
Ag 328.068†	548747.5	2.354	mg/L	0.0337	2.354	mg/L	0.0337	1.43%
QC value within limits for Ag 328.068 Recovery = 94.14%								
Al 396.153†	38766.8	9.860	mg/L	0.0441	9.860	mg/L	0.0441	0.45%
QC value within limits for Al 396.153 Recovery = 98.60%								
As 188.979†	11365.7	4.944	mg/L	0.0392	4.944	mg/L	0.0392	0.79%
QC value within limits for As 188.979 Recovery = 98.89%								
B 208.889†	70542.5	4.706	mg/L	0.0129	4.706	mg/L	0.0129	0.27%
QC value within limits for B 208.889 Recovery = 94.12%								
Ba 233.527†	635852.5	5.227	mg/L	0.0083	5.227	mg/L	0.0083	0.16%
QC value within limits for Ba 233.527 Recovery = 104.54%								
Be 313.107†	1980785.4	4.872	mg/L	0.0500	4.872	mg/L	0.0500	1.03%
QC value within limits for Be 313.107 Recovery = 97.44%								
Ca 317.933†	72077.0	10.28	mg/L	0.050	10.28	mg/L	0.050	0.49%
QC value within limits for Ca 317.933 Recovery = 102.80%								
Cd 228.802†	437654.7	5.137	mg/L	0.0099	5.137	mg/L	0.0099	0.19%
QC value within limits for Cd 228.802 Recovery = 102.74%								
Co 228.616†	380087.7	5.183	mg/L	0.0114	5.183	mg/L	0.0114	0.22%
QC value within limits for Co 228.616 Recovery = 103.66%								
Cr 267.716†	479577.1	5.170	mg/L	0.0125	5.170	mg/L	0.0125	0.24%
QC value within limits for Cr 267.716 Recovery = 103.41%								
Cu 327.393†	695537.3	4.853	mg/L	0.0112	4.853	mg/L	0.0112	0.23%
QC value within limits for Cu 327.393 Recovery = 97.07%								
Fe 238.204†	12805.5	5.100	mg/L	0.0292	5.100	mg/L	0.0292	0.57%
QC value within limits for Fe 238.204 Recovery = 102.00%								

K 766.490†	30899.5	9.924 mg/L	0.0391	9.924 mg/L	0.0391	0.39%
QC value within limits for K 766.490 Recovery = 99.24%						
Mg 285.213†	98104.4	10.16 mg/L	0.060	10.16 mg/L	0.060	0.59%
QC value within limits for Mg 285.213 Recovery = 101.63%						
Mn 257.610†	142731.3	5.013 mg/L	0.0313	5.013 mg/L	0.0313	0.62%
QC value within limits for Mn 257.610 Recovery = 100.25%						
Mo 202.031†	96953.4	5.145 mg/L	0.0250	5.145 mg/L	0.0250	0.49%
QC value within limits for Mo 202.031 Recovery = 102.90%						
Na 589.592†	82566.4	9.887 mg/L	0.0921	9.887 mg/L	0.0921	0.93%
QC value within limits for Na 589.592 Recovery = 98.87%						
Ni 231.604†	146479.1	5.148 mg/L	0.0171	5.148 mg/L	0.0171	0.33%
QC value within limits for Ni 231.604 Recovery = 102.97%						
Pb 220.353†	44489.5	5.130 mg/L	0.0528	5.130 mg/L	0.0528	1.03%
QC value within limits for Pb 220.353 Recovery = 102.60%						
Sb 206.836†	22785.3	4.924 mg/L	0.0396	4.924 mg/L	0.0396	0.80%
QC value within limits for Sb 206.836 Recovery = 98.47%						
Se 196.026†	6547.3	4.993 mg/L	0.0378	4.993 mg/L	0.0378	0.76%
QC value within limits for Se 196.026 Recovery = 99.86%						
Sn 189.927†	30666.7	5.142 mg/L	0.0444	5.142 mg/L	0.0444	0.86%
QC value within limits for Sn 189.927 Recovery = 102.84%						
Ti 337.279†	96402.9	4.975 mg/L	0.0336	4.975 mg/L	0.0336	0.68%
QC value within limits for Ti 337.279 Recovery = 99.49%						
Tl 351.924†	23962.5	2.408 mg/L	0.0208	2.408 mg/L	0.0208	0.87%
QC value within limits for Tl 351.924 Recovery = 96.33%						
V 290.880†	834522.2	5.221 mg/L	0.0137	5.221 mg/L	0.0137	0.26%
QC value within limits for V 290.880 Recovery = 104.41%						
Zn 206.200†	242787.4	5.375 mg/L	0.0262	5.375 mg/L	0.0262	0.49%
QC value within limits for Zn 206.200 Recovery = 107.49%						
Zr 343.823†	1698554.8	5.027 mg/L	0.0080	5.027 mg/L	0.0080	0.16%

All analyte(s) passed QC.

==========

Sequence No.: 105
Sample ID: SEQ-CCB@ 23J0970
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 230

SEE RR NDC 5/24/24

Autosampler Location: 1
Date Collected: 5/23/2024 1:25:08 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	3955496.2	94.78	%	1.217				1.28%
Y radial	188727.8	91.43	%	1.352				1.48%
Ag 328.068†	414.4	0.0018	mg/L	0.00015	0.0018	mg/L	0.00015	8.67%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	26.5	0.0068	mg/L	0.00625	0.0068	mg/L	0.00625	91.21%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	1.4	0.0006	mg/L	0.00238	0.0006	mg/L	0.00238	401.41%
QC value within limits for As 188.979 Recovery = Not calculated								
B 208.889†	401.1	0.0281	mg/L	0.00036	0.0281	mg/L	0.00036	1.28%
QC value within limits for B 208.889 Recovery = Not calculated								
Ba 233.527†	14.0	0.0001	mg/L	0.00006	0.0001	mg/L	0.00006	54.05%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-72.3	-0.0002	mg/L	0.00001	-0.0002	mg/L	0.00001	5.56%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	40.2	0.0057	mg/L	0.00190	0.0057	mg/L	0.00190	33.12%
QC value within limits for Ca 317.933 Recovery = Not calculated								
Cd 228.802†	23.1	0.0002	mg/L	0.00005	0.0002	mg/L	0.00005	21.34%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	-215.9	-0.0029	mg/L	0.00004	-0.0029	mg/L	0.00004	1.36%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-259.4	-0.0028	mg/L	0.00011	-0.0028	mg/L	0.00011	4.01%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	2297.7	0.0160	mg/L	0.00065	0.0160	mg/L	0.00065	4.09%
QC value greater than the upper limit for Cu 327.393 Recovery = Not calculated								
Fe 238.204†	11.2	0.0044	mg/L	0.00074	0.0044	mg/L	0.00074	16.68%
QC value within limits for Fe 238.204 Recovery = Not calculated								
K 766.490†	78.0	0.0251	mg/L	0.00521	0.0251	mg/L	0.00521	20.78%

SOIL OK- JLC 05/23/24

QC value within limits for K 766.490 Recovery = Not calculated
Mg 285.213† -307.5 -0.0319 mg/L 0.00079 -0.0319 mg/L 0.00079 2.48%
QC value within limits for Mg 285.213 Recovery = Not calculated
Mn 257.610† -60.8 -0.0021 mg/L 0.00015 -0.0021 mg/L 0.00015 6.80%
QC value within limits for Mn 257.610 Recovery = Not calculated
Mo 202.031† 32.5 0.0017 mg/L 0.00009 0.0017 mg/L 0.00009 4.97%
QC value within limits for Mo 202.031 Recovery = Not calculated
Na 589.592† 28.5 0.0034 mg/L 0.00358 0.0034 mg/L 0.00358 105.03%
QC value within limits for Na 589.592 Recovery = Not calculated
Ni 231.604† -180.2 -0.0063 mg/L 0.00051 -0.0063 mg/L 0.00051 8.01%
QC value within limits for Ni 231.604 Recovery = Not calculated
Pb 220.353† 2.0 0.0002 mg/L 0.00018 0.0002 mg/L 0.00018 94.80%
QC value within limits for Pb 220.353 Recovery = Not calculated
Sb 206.836† 4.4 0.0010 mg/L 0.00121 0.0010 mg/L 0.00121 119.95%
QC value within limits for Sb 206.836 Recovery = Not calculated
Se 196.026† -0.6 -0.0004 mg/L 0.00145 -0.0004 mg/L 0.00145 332.79%
QC value within limits for Se 196.026 Recovery = Not calculated
Sn 189.927† 8.3 0.0014 mg/L 0.00009 0.0014 mg/L 0.00009 6.44%
QC value within limits for Sn 189.927 Recovery = Not calculated
Ti 337.279† 25.9 0.0013 mg/L 0.00023 0.0013 mg/L 0.00023 17.25%
QC value within limits for Ti 337.279 Recovery = Not calculated
Tl 351.924† 13.8 0.0014 mg/L 0.00580 0.0014 mg/L 0.00580 407.57%
QC value within limits for Tl 351.924 Recovery = Not calculated
V 290.880† -515.9 -0.0032 mg/L 0.00029 -0.0032 mg/L 0.00029 9.04%
QC value within limits for V 290.880 Recovery = Not calculated
Zn 206.200† 198.3 0.0043 mg/L 0.00019 0.0043 mg/L 0.00019 4.40%
QC value within limits for Zn 206.200 Recovery = Not calculated
Zr 343.823† -12.4 -0.0000 mg/L 0.00003 -0.0000 mg/L 0.00003 82.39%
QC Failed. Retry.

SEE RR NDC 5/24/24

Sequence No.: 106 **Autosampler Location: 1**
Sample ID: SEQ-CCB@ 23J0970 **Date Collected: 5/23/2024 1:28:39 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 230 **Auto Dilution Factor: 1**

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y axial	3954315.3	94.75	%	0.521				0.55%
Y radial	187537.3	90.85	%	0.450				0.50%
Ag 328.068†	645.3	0.0028	mg/L	0.00175	0.0028	mg/L	0.00175	62.79%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	14.2	0.0037	mg/L	0.00303	0.0037	mg/L	0.00303	82.73%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	-2.3	-0.0010	mg/L	0.00277	-0.0010	mg/L	0.00277	274.96%
QC value within limits for As 188.979 Recovery = Not calculated								
B 208.889†	346.1	0.0243	mg/L	0.00070	0.0243	mg/L	0.00070	2.90%
QC value within limits for B 208.889 Recovery = Not calculated								
Ba 233.527†	14.4	0.0001	mg/L	0.00005	0.0001	mg/L	0.00005	43.86%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-92.8	-0.0002	mg/L	0.00002	-0.0002	mg/L	0.00002	8.99%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	46.5	0.0066	mg/L	0.00054	0.0066	mg/L	0.00054	8.12%
QC value within limits for Ca 317.933 Recovery = Not calculated								
Cd 228.802†	21.4	0.0003	mg/L	0.00003	0.0003	mg/L	0.00003	10.11%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	-218.9	-0.0030	mg/L	0.00013	-0.0030	mg/L	0.00013	4.32%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-265.8	-0.0029	mg/L	0.00012	-0.0029	mg/L	0.00012	4.27%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	1716.4	0.0119	mg/L	0.00017	0.0119	mg/L	0.00017	1.43%
QC value greater than the upper limit for Cu 327.393 Recovery = Not calculated								
Fe 238.204†	10.3	0.0041	mg/L	0.00130	0.0041	mg/L	0.00130	32.12%
QC value within limits for Fe 238.204 Recovery = Not calculated								
K 766.490†	64.5	0.0207	mg/L	0.01626	0.0207	mg/L	0.01626	78.47%
QC value within limits for K 766.490 Recovery = Not calculated								

SOIL OK- JLC 05/23/24

Mg 285.213†	-324.3	-0.0337 mg/L	0.00096	-0.0337 mg/L	0.00096	2.85%
QC value within limits for Mg 285.213 Recovery = Not calculated						
Mn 257.610†	-55.0	-0.0019 mg/L	0.00009	-0.0019 mg/L	0.00009	4.79%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	20.5	0.0011 mg/L	0.00030	0.0011 mg/L	0.00030	27.91%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592†	-14.0	-0.0017 mg/L	0.00136	-0.0017 mg/L	0.00136	81.48%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	-187.4	-0.0066 mg/L	0.00043	-0.0066 mg/L	0.00043	6.46%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	0.1	-0.0000 mg/L	0.00088	-0.0000 mg/L	0.00088	>999.9%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	-0.3	-0.0000 mg/L	0.00108	-0.0000 mg/L	0.00108	>999.9%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-0.7	-0.0005 mg/L	0.00249	-0.0005 mg/L	0.00249	462.76%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	2.7	0.0004 mg/L	0.00135	0.0004 mg/L	0.00135	301.97%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	20.8	0.0011 mg/L	0.00005	0.0011 mg/L	0.00005	4.66%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 351.924†	15.6	0.0016 mg/L	0.00208	0.0016 mg/L	0.00208	129.38%
QC value within limits for Tl 351.924 Recovery = Not calculated						
V 290.880†	-463.5	-0.0029 mg/L	0.00018	-0.0029 mg/L	0.00018	6.35%
QC value within limits for V 290.880 Recovery = Not calculated						
Zn 206.200†	112.8	0.0024 mg/L	0.00014	0.0024 mg/L	0.00014	5.77%
QC value within limits for Zn 206.200 Recovery = Not calculated						
Zr 343.823†	-36.5	-0.0001 mg/L	0.00013	-0.0001 mg/L	0.00013	121.24%

QC Failed. Continue with analysis.

ANALYSIS SEQUENCE

S104975

Instrument: ICP3

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
S104975-ICV1	QC		1		24E0296	24D0241	
S104975-ICB1	QC		2		24D0837	24D0241	
S104975-LCV1	QC		3		24D0841	24D0241	
S104975-CCV1	QC		4		24D0029	24D0241	
S104975-IFA1	QC		5		24C0959	24D0241	
S104975-IFB1	QC		6		24D0240	24D0241	
S104975-HCV1	QC		7		24D0030	24D0241	
S104975-HCV2	QC		8		24C0960	24D0241	
B374725-MS3	QC		9			24D0241	Added 5/24/2024 by HNN
B374725-MSD3	QC		10			24D0241	Added 5/24/2024 by HNN
B374725-PS3	QC		11			24D0241	Added 5/24/2024 by HNN
B374725-SRL2	QC		12			24D0241	Added 5/24/2024 by HNN
24E1437-12	Iron 6010 Total	A	13			24D0241	CAT B
S104975-CCV2	QC		14		24D0029	24D0241	
S104975-CCB1	QC		15		24D0837	24D0241	
S104975-IFA2	QC		16		24C0959	24D0241	
S104975-IFB2	QC		17		24D0240	24D0241	

Samples Loaded By Date

Data Processed By Date

Align View XY Axial for analyte Mn 257.610

X-position	Y-position	Intensity
-2.0	15.0	147614.2
-1.6	15.0	222297.0
-1.2	15.0	297127.4
-0.8	15.0	354120.8
-0.4	15.0	392320.9
0.0	15.0	402022.1
0.4	15.0	378325.9
0.8	15.0	316570.0
1.2	15.0	263530.3
1.6	15.0	209897.5
0.0	10.0	567.9
0.0	10.5	3075.5
0.0	11.0	8571.9
0.0	11.5	23195.2
0.0	12.0	41041.5
0.0	12.5	101287.1
0.0	13.0	144149.0
0.0	13.5	196361.8
0.0	14.0	262877.6
0.0	14.5	370353.1
0.0	15.0	414391.1
0.0	15.5	398360.1
0.0	16.0	345764.0
0.0	16.5	242771.5
0.0	17.0	174120.7
0.0	17.5	125470.0
0.0	18.0	82879.3
0.0	18.5	30950.6
0.0	19.0	15817.9
0.0	19.5	6113.5
-0.8	15.0	352291.9
-0.4	15.0	403362.4
0.0	15.0	392746.5
0.4	15.0	369697.4
-0.4	13.0	148052.7
-0.4	13.5	199056.4
-0.4	14.0	263479.0
-0.4	14.5	368533.2
-0.4	15.0	382704.3
-0.4	15.5	396294.5
-0.4	16.0	370788.9
-0.4	16.5	231715.3

5/23/2024 10:52:43 AM aligned for analyte Mn 257.610
X viewing position set to -0.4 mm having Peak intensity 396294.5 for Axial viewing
Y viewing position set to 15.5 mm having Peak intensity 396294.5 for Axial viewing

Align View XY Axial for analyte Mn 257.610

X-position	Y-position	Intensity
-2.0	15.0	79311.2
-1.6	15.0	143332.5
-1.2	15.0	213929.4
-0.8	15.0	288395.0
-0.4	15.0	354334.8
0.0	15.0	394657.1
0.4	15.0	403366.4
0.8	15.0	382416.0
1.2	15.0	314577.8
1.6	15.0	241623.9
0.4	10.0	602.6
0.4	10.5	9093.3
0.4	11.0	22973.7
0.4	11.5	40970.6
0.4	12.0	66466.0
0.4	12.5	147736.7
0.4	13.0	201923.4

0.4	13.5	271507.8
0.4	14.0	308142.8
0.4	14.5	402327.1
0.4	15.0	398201.5
0.4	15.5	368338.2
0.4	16.0	307449.6
0.4	16.5	181296.3
0.4	17.0	125145.0
0.4	17.5	81253.9
0.4	18.0	49843.8
0.4	18.5	15131.0
0.4	19.0	6428.5
0.4	19.5	2564.6
-0.4	14.5	348552.7
0.0	14.5	404775.7
0.4	14.5	398024.9
0.8	14.5	384561.2
0.0	12.5	149542.9
0.0	13.0	203536.9
0.0	13.5	250089.0
0.0	14.0	322888.6
0.0	14.5	392102.8
0.0	15.0	385564.3
0.0	15.5	356640.7
0.0	16.0	300331.6

5/23/2024 10:57:04 AM aligned for analyte Mn 257.610
X viewing position set to 0.0 mm having Peak intensity 392102.8 for Axial viewing
Y viewing position set to 14.5 mm having Peak intensity 392102.8 for Axial viewing

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Align View X Radial for analyte Mn 257.610

X-position	Y-position	Intensity
-7.0	15.0	7924.2
-6.5	15.0	8362.1
-6.0	15.0	8604.9
-5.5	15.0	8954.0
-5.0	15.0	11480.0
-4.5	15.0	13712.1
-4.0	15.0	18667.7
-3.5	15.0	26294.8
-3.0	15.0	50155.3
-2.5	15.0	84255.5
-2.0	15.0	130992.5
-1.5	15.0	180546.6
-1.0	15.0	242311.4
-0.5	15.0	274510.7
0.0	15.0	274214.4
0.5	15.0	215665.8
1.0	15.0	93160.6
1.5	15.0	86978.1
2.0	15.0	71044.0
2.5	15.0	54930.7
3.0	15.0	31155.9
3.5	15.0	13668.9
4.0	15.0	5312.2
4.5	15.0	3483.3
5.0	15.0	2965.8
5.5	15.0	1936.6
6.0	15.0	1279.0
6.5	15.0	1039.6

5/23/2024 11:01:09 AM aligned for analyte Mn 257.610
X viewing position set to -0.5 mm having Peak intensity 274510.7 for Radial viewing

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Align View X Radial for analyte Mn 257.610

X-position	Y-position	Intensity
-7.0	15.0	7195.2
-6.5	15.0	8017.8

-6.0	15.0	8020.0
-5.5	15.0	8279.9
-5.0	15.0	9132.2
-4.5	15.0	11092.3
-4.0	15.0	13018.0
-3.5	15.0	18212.0
-3.0	15.0	25755.0
-2.5	15.0	51289.8
-2.0	15.0	84795.5
-1.5	15.0	132937.7
-1.0	15.0	175310.9
-0.5	15.0	230855.5
0.0	15.0	282888.0
0.5	15.0	294381.9
1.0	15.0	207884.9
1.5	15.0	93424.7
2.0	15.0	85385.3
2.5	15.0	69872.8
3.0	15.0	53425.7
3.5	15.0	31632.8
4.0	15.0	13793.3
4.5	15.0	5114.5
5.0	15.0	3436.5
5.5	15.0	2951.6
6.0	15.0	1946.1
6.5	15.0	1270.4

5/23/2024 11:02:44 AM aligned for analyte Mn 257.610
X viewing position set to 0.5 mm having Peak intensity 294381.9 for Radial viewing

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Align View X Radial for analyte Mn 257.610

X-position	Y-position	Intensity
-7.0	15.0	7924.3
-6.5	15.0	8161.5
-6.0	15.0	8212.9
-5.5	15.0	8940.1
-5.0	15.0	11012.4
-4.5	15.0	13532.3
-4.0	15.0	18292.1
-3.5	15.0	26026.0
-3.0	15.0	48356.6
-2.5	15.0	82348.9
-2.0	15.0	128425.8
-1.5	15.0	182360.8
-1.0	15.0	244211.0
-0.5	15.0	272042.1
0.0	15.0	289135.1
0.5	15.0	211681.7
1.0	15.0	96142.6
1.5	15.0	82270.5
2.0	15.0	69402.2
2.5	15.0	56548.8
3.0	15.0	31163.3
3.5	15.0	13734.8
4.0	15.0	5335.6
4.5	15.0	3551.0
5.0	15.0	2948.0
5.5	15.0	1956.6
6.0	15.0	1264.4
6.5	15.0	1012.2

5/23/2024 11:05:29 AM aligned for analyte Mn 257.610
X viewing position set to 0.0 mm having Peak intensity 289135.1 for Radial viewing

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Analysis Begun

Start Time: 5/23/2024 11:18:26 AM **Plasma On Time: 5/23/2024 9:36:38 AM**

Originator: Optima8300 **Technique: ICP Continuous**
Spectrometer: Optima 8300 , S/N 078S1703073 **Autosampler: S10**

Sample Information File: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Sample Information\ 0523A24.sifx
Results Data Set: 0523A24
Results Library: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Results\Results.mdb

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Batch ID: OPTIMA 3
Sequence No.: 1 **Autosampler Location: 1**
Sample ID: Cal Blank@ 23J0970 **Date Collected: 5/23/2024 11:18:27 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Rinse Time (before sample):

Mean Data: Cal Blank@ 23J0970

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y radial	154140.2	1166.98	0.76%	100	%
Y axial	2760916.4	16989.59	0.62%	100	%
Ag 328.068†	103.8	13.35	12.85%	[0.00]	mg/L
Al 396.153†	31.1	17.16	55.18%	[0.00]	mg/L
As 188.979†	-67.8	5.31	7.83%	[0.00]	mg/L
B 208.889†	125.8	3.37	2.68%	[0.00]	mg/L
Ba 233.527†	-29.1	2.88	9.89%	[0.00]	mg/L
Be 313.107†	-33.1	15.79	47.62%	[0.00]	mg/L
Ca 317.933†	943.7	10.36	1.10%	[0.00]	mg/L
Cd 228.802†	166.0	4.19	2.52%	[0.00]	mg/L
Co 228.616†	142.2	5.47	3.84%	[0.00]	mg/L
Cr 267.716†	58.4	20.25	34.66%	[0.00]	mg/L
Cu 327.393†	404.5	14.84	3.67%	[0.00]	mg/L
Fe 238.204†	-90.1	4.91	5.45%	[0.00]	mg/L
K 766.490†	872.8	96.55	11.06%	[0.00]	mg/L
Mg 285.213†	199.9	4.09	2.05%	[0.00]	mg/L
Mn 257.610†	-391.7	4.75	1.21%	[0.00]	mg/L
Mo 202.031†	116.2	4.33	3.72%	[0.00]	mg/L
Na 589.592†	184.5	54.34	29.45%	[0.00]	mg/L
Ni 231.604†	511.6	12.86	2.51%	[0.00]	mg/L
Pb 220.353†	0.9	12.44	>999.9%	[0.00]	mg/L
Sb 206.836†	81.6	6.01	7.36%	[0.00]	mg/L
Se 196.026†	-5.8	4.18	71.50%	[0.00]	mg/L
Sn 189.927†	-61.8	2.85	4.61%	[0.00]	mg/L
Ti 337.279†	-195.6	3.11	1.59%	[0.00]	mg/L
Tl 351.924†	30.2	43.23	143.23%	[0.00]	mg/L
V 290.880†	1993.5	8.18	0.41%	[0.00]	mg/L
Zn 206.200†	-261.5	11.18	4.27%	[0.00]	mg/L
Zr 343.823†	161.2	36.06	22.38%	[0.00]	mg/L

User canceled analysis.

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Analysis Begun

Start Time: 5/23/2024 2:08:15 PM **Plasma On Time: 5/23/2024 9:36:38 AM**
Originator: Optima8300 **Technique: ICP Continuous**
Spectrometer: Optima 8300 , S/N 078S1703073 **Autosampler: S10**

Sample Information File: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Sample Information\ 0523A24.sifx
Results Data Set: 0523A24
Results Library: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Results\Results.mdb

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Batch ID: OPTIMA 3
Sequence No.: 1 **Autosampler Location: 1**
Sample ID: Cal Blank@ 23J0970 **Date Collected: 5/23/2024 2:08:26 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Rinse Time (before sample):

Mean Data: Cal Blank@ 23J0970

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y radial	151904.5	904.97	0.60%	100	%
Y axial	2707775.2	18609.49	0.69%	100	%
Ag 328.068†	18.0	50.50	280.45%	[0.00]	mg/L
Al 396.153†	14.5	37.76	260.89%	[0.00]	mg/L
As 188.979†	-69.2	1.20	1.73%	[0.00]	mg/L
B 208.889†	117.1	0.92	0.78%	[0.00]	mg/L
Ba 233.527†	-23.7	2.73	11.54%	[0.00]	mg/L
Be 313.107†	-50.4	6.24	12.38%	[0.00]	mg/L
Ca 317.933†	916.1	3.95	0.43%	[0.00]	mg/L
Cd 228.802†	151.8	4.27	2.81%	[0.00]	mg/L
Co 228.616†	112.9	3.47	3.07%	[0.00]	mg/L
Cr 267.716†	92.7	6.08	6.56%	[0.00]	mg/L
Cu 327.393†	226.8	31.46	13.87%	[0.00]	mg/L
Fe 238.204†	-92.0	3.73	4.05%	[0.00]	mg/L
K 766.490†	785.9	84.22	10.72%	[0.00]	mg/L
Mg 285.213†	204.2	3.04	1.49%	[0.00]	mg/L
Mn 257.610†	-400.2	3.73	0.93%	[0.00]	mg/L
Mo 202.031†	105.5	7.27	6.90%	[0.00]	mg/L
Na 589.592†	113.5	85.54	75.35%	[0.00]	mg/L
Ni 231.604†	475.7	0.65	0.14%	[0.00]	mg/L
Pb 220.353†	8.3	3.15	37.79%	[0.00]	mg/L
Sb 206.836†	86.0	2.48	2.88%	[0.00]	mg/L
Se 196.026†	-7.7	4.76	61.70%	[0.00]	mg/L
Sn 189.927†	-57.6	6.35	11.02%	[0.00]	mg/L
Ti 337.279†	-188.0	28.05	14.92%	[0.00]	mg/L
Tl 351.924†	-26.5	47.14	177.72%	[0.00]	mg/L
V 290.880†	2064.7	8.53	0.41%	[0.00]	mg/L
Zn 206.200†	-254.2	2.53	1.00%	[0.00]	mg/L
Zr 343.823†	177.1	56.48	31.89%	[0.00]	mg/L

User canceled analysis.

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Analysis Begun

Start Time: 5/23/2024 2:17:53 PM **Plasma On Time: 5/23/2024 9:36:38 AM**
Originator: Optima8300 **Technique: ICP Continuous**
Spectrometer: Optima 8300 , S/N 078S1703073 **Autosampler: S10**

Sample Information File: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Sample Information\ 0523A24.sifx
Results Data Set: 0523A24
Results Library: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Results\Results.mdb

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Batch ID: OPTIMA 3
Sequence No.: 1 **Autosampler Location: 1**
Sample ID: Cal Blank@ 23J0970 **Date Collected: 5/23/2024 2:18:04 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Rinse Time (before sample):

Mean Data: Cal Blank@ 23J0970

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y radial	152504.0	3800.84	2.49%	100	%
Y axial	2701790.4	36831.98	1.36%	99.8	%
Ag 328.068†	90.7	43.07	47.50%	[0.00]	mg/L
Al 396.153†	36.5	31.00	84.89%	[0.00]	mg/L
As 188.979†	-61.5	2.40	3.90%	[0.00]	mg/L
B 208.889†	114.3	8.41	7.35%	[0.00]	mg/L
Ba 233.527†	-25.5	1.95	7.63%	[0.00]	mg/L
Be 313.107†	-60.8	9.84	16.19%	[0.00]	mg/L
Ca 317.933†	902.0	25.10	2.78%	[0.00]	mg/L
Cd 228.802†	156.7	8.73	5.57%	[0.00]	mg/L
Co 228.616†	112.0	7.51	6.71%	[0.00]	mg/L
Cr 267.716†	81.1	5.62	6.92%	[0.00]	mg/L
Cu 327.393†	288.7	47.99	16.62%	[0.00]	mg/L
Fe 238.204†	-89.4	3.60	4.03%	[0.00]	mg/L
K 766.490†	774.7	82.03	10.59%	[0.00]	mg/L
Mg 285.213†	202.7	7.06	3.48%	[0.00]	mg/L
Mn 257.610†	-396.6	11.96	3.02%	[0.00]	mg/L
Mo 202.031†	101.7	7.84	7.71%	[0.00]	mg/L
Na 589.592†	160.1	98.92	61.80%	[0.00]	mg/L
Ni 231.604†	485.5	3.61	0.74%	[0.00]	mg/L
Pb 220.353†	13.5	2.71	20.08%	[0.00]	mg/L
Sb 206.836†	78.8	3.74	4.75%	[0.00]	mg/L
Se 196.026†	-13.9	13.17	94.87%	[0.00]	mg/L
Sn 189.927†	-59.4	4.26	7.16%	[0.00]	mg/L
Ti 337.279†	-202.0	8.26	4.09%	[0.00]	mg/L
Tl 351.924†	-13.9	43.54	313.12%	[0.00]	mg/L
V 290.880†	2015.7	48.66	2.41%	[0.00]	mg/L
Zn 206.200†	-253.2	4.16	1.64%	[0.00]	mg/L
Zr 343.823†	157.1	30.86	19.64%	[0.00]	mg/L

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Batch ID: OPTIMA 3
Sequence No.: 2 **Autosampler Location: 38**
Sample ID: SEQ-CAL1@ 23J0971 **Date Collected: 5/23/2024 2:23:59 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Rinse Time (before sample): 110
User canceled analysis.

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Analysis Begun

Start Time: 5/23/2024 2:28:21 PM **Plasma On Time: 5/23/2024 9:36:38 AM**
Originator: Optima8300 **Technique: ICP Continuous**
Spectrometer: Optima 8300 , S/N 078S1703073 **Autosampler: S10**

Sample Information File: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Sample Information\ 0523A24.sifx
Results Data Set: 0523A24
Results Library: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Results\Results.mdb

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Method Loaded
Method Name: ICP3 012424_IEC* **Method Last Saved: 5/23/2024 11:22:12 AM**
IEC File: 011224.iec **MSF File:**
Method Description: Soils and Waters

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Al 396.153	Lin Thru 0	Peak Area	Radial	Y radial	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Y axial	Yes
B 208.889	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ba 233.527	Lin Thru 0	Peak Area	Radial	Y axial	Yes
Be 313.107	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Cd 228.802	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cu 327.393	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Fe 238.204	Lin Thru 0	Peak Area	Radial	Y radial	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mg 285.213	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mn 257.610	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Na 589.592	Lin Thru 0	Peak Area	Radial	Y radial	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ti 337.279	Lin Thru 0	Peak Area	Radial	Y radial	No
Tl 351.924	Lin Thru 0	Peak Area	Axial	Y axial	Yes
V 290.880	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Y radial	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Y axial	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 206.200	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Zr 343.823	Lin Thru 0	Peak Area	Axial	Y axial	No

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Batch ID: OPTIMA 3
Sequence No.: 1 **Autosampler Location: 1**
Sample ID: Cal Blank@ 23J0970 **Date Collected: 5/23/2024 2:28:22 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Rinse Time (before sample):

Mean Data: Cal Blank@ 23J0970

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y radial	151677.4	2272.93	1.50%	100	%
Y axial	2700057.5	20752.93	0.77%	100	%
Ag 328.068†	54.5	65.69	120.51%	[0.00]	mg/L
Al 396.153†	49.5	26.69	53.93%	[0.00]	mg/L
As 188.979†	-64.5	1.81	2.80%	[0.00]	mg/L
B 208.889†	115.3	3.07	2.66%	[0.00]	mg/L
Ba 233.527†	-26.7	4.73	17.73%	[0.00]	mg/L

Be 313.107†	-38.2	4.25	11.13%	[0.00]	mg/L
Ca 317.933†	884.8	10.89	1.23%	[0.00]	mg/L
Cd 228.802†	155.2	6.53	4.21%	[0.00]	mg/L
Co 228.616†	100.6	5.58	5.55%	[0.00]	mg/L
Cr 267.716†	84.7	8.23	9.71%	[0.00]	mg/L
Cu 327.393†	194.4	33.84	17.41%	[0.00]	mg/L
Fe 238.204†	-84.9	3.75	4.41%	[0.00]	mg/L
K 766.490†	763.4	140.72	18.43%	[0.00]	mg/L
Mg 285.213†	205.6	6.83	3.32%	[0.00]	mg/L
Mn 257.610†	-407.0	4.81	1.18%	[0.00]	mg/L
Mo 202.031†	103.7	6.61	6.37%	[0.00]	mg/L
Na 589.592†	171.7	58.22	33.90%	[0.00]	mg/L
Ni 231.604†	475.6	2.58	0.54%	[0.00]	mg/L
Pb 220.353†	11.9	7.10	59.61%	[0.00]	mg/L
Sb 206.836†	79.4	2.44	3.08%	[0.00]	mg/L
Se 196.026†	-19.3	1.88	9.73%	[0.00]	mg/L
Sn 189.927†	-55.5	3.34	6.02%	[0.00]	mg/L
Ti 337.279†	-177.9	3.31	1.86%	[0.00]	mg/L
Tl 351.924†	-44.1	23.22	52.66%	[0.00]	mg/L
V 290.880†	2001.7	39.18	1.96%	[0.00]	mg/L
Zn 206.200†	-250.7	4.43	1.77%	[0.00]	mg/L
Zr 343.823†	185.2	22.67	12.24%	[0.00]	mg/L

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Batch ID: OPTIMA 3
Sequence No.: 2 **Autosampler Location: 2**
Sample ID: SEQ-CAL1@ 23J0971 **Date Collected: 5/23/2024 2:34:19 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Rinse Time (before sample): 110

Mean Data: SEQ-CAL1@ 23J0971

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y radial	153763.1	1103.26	0.72%	101	%
Y axial	2692581.8	16236.94	0.60%	99.7	%
Ag 328.068†	864.1	20.55	2.38%	[0.01]	mg/L
Al 396.153†	147.7	42.45	28.73%	[0.05]	mg/L
As 188.979†	12.3	2.76	22.45%	[0.01]	mg/L
B 208.889†	875.7	15.43	1.76%	[0.1]	mg/L
Ba 233.527†	222.6	2.68	1.20%	[0.05]	mg/L
Be 313.107†	1129.9	16.66	1.47%	[0.004]	mg/L
Ca 317.933†	3023.1	35.69	1.18%	[0.5]	mg/L
Cd 228.802†	164.4	5.32	3.24%	[0.004]	mg/L
Co 228.616†	410.6	7.30	1.78%	[0.01]	mg/L
Cr 267.716†	678.4	19.93	2.94%	[0.01]	mg/L
Cu 327.393†	1393.6	37.94	2.72%	[0.01]	mg/L
Fe 238.204†	223.1	7.47	3.35%	[0.05]	mg/L
Mg 285.213†	508.6	8.06	1.59%	[0.05]	mg/L
Mn 257.610†	329.9	1.88	0.57%	[0.01]	mg/L
Mo 202.031†	1005.3	17.94	1.78%	[0.05]	mg/L
Ni 231.604†	381.3	8.56	2.24%	[0.01]	mg/L
Pb 220.353†	57.1	1.81	3.16%	[0.01]	mg/L
Sb 206.836†	116.2	2.48	2.13%	[0.05]	mg/L
Se 196.026†	115.5	11.36	9.84%	[0.05]	mg/L
Sn 189.927†	613.8	9.40	1.53%	[0.1]	mg/L
Ti 337.279†	343.1	4.88	1.42%	[0.02]	mg/L
Tl 351.924†	230.0	44.48	19.34%	[0.05]	mg/L
V 290.880†	778.7	23.86	3.06%	[0.01]	mg/L
Zn 206.200†	341.1	6.68	1.96%	[0.01]	mg/L

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Batch ID: OPTIMA 3
Sequence No.: 3 **Autosampler Location: 3**
Sample ID: SEQ-CAL2@ 23J0972 **Date Collected: 5/23/2024 2:42:05 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Rinse Time (before sample): 220

Mean Data: SEQ-CAL2@ 23J0972

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y radial	151954.7	1428.62	0.94%	100	%
Y axial	2686179.8	42313.44	1.58%	99.5	%
Ag 328.068†	5372.0	196.58	3.66%	[0.0625]	mg/L
Al 396.153†	771.1	18.56	2.41%	[0.25]	mg/L
As 188.979†	204.5	3.27	1.60%	[0.125]	mg/L
B 208.889†	1137.1	18.44	1.62%	[0.125]	mg/L
Ba 233.527†	550.3	13.60	2.47%	[0.125]	mg/L
Be 313.107†	32997.9	72.54	0.22%	[0.125]	mg/L
Cd 228.802†	4755.4	70.12	1.47%	[0.125]	mg/L
Co 228.616†	4939.5	75.06	1.52%	[0.125]	mg/L
Cr 267.716†	8012.8	95.73	1.19%	[0.125]	mg/L
Cu 327.393†	14860.7	140.22	0.94%	[0.125]	mg/L
Fe 238.204†	562.3	5.34	0.95%	[0.125]	mg/L
Mg 285.213†	2643.6	46.71	1.77%	[0.25]	mg/L
Mn 257.610†	3793.0	48.93	1.29%	[0.125]	mg/L
Mo 202.031†	2524.6	33.08	1.31%	[0.125]	mg/L
Ni 231.604†	4440.9	87.90	1.98%	[0.125]	mg/L
Pb 220.353†	661.0	8.59	1.30%	[0.125]	mg/L
Sb 206.836†	325.6	4.95	1.52%	[0.125]	mg/L
Se 196.026†	307.0	11.10	3.62%	[0.125]	mg/L
Sn 189.927†	787.9	9.72	1.23%	[0.125]	mg/L
Ti 337.279†	2156.1	31.26	1.45%	[0.125]	mg/L
Tl 351.924†	211.8	109.20	51.56%	[0.0625]	mg/L
Standard intensity and concentration values are not in the same order.					
V 290.880†	10232.4	108.11	1.06%	[0.125]	mg/L
Zn 206.200†	3868.0	44.17	1.14%	[0.125]	mg/L
Zr 343.823†	27632.7	239.38	0.87%	[0.125]	mg/L

Batch ID: OPTIMA 3
Sequence No.: 4 **Autosampler Location: 4**
Sample ID: SEQ-CAL3@ 23J0973 **Date Collected: 5/23/2024 2:49:53 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Rinse Time (before sample): 220

Mean Data: SEQ-CAL3@ 23J0973

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y radial	150156.8	7964.86	5.30%	99.0	%
Y axial	2701765.4	1939.92	0.07%	100	%
Ag 328.068†	22077.2	135.51	0.61%	[0.25]	mg/L
Al 396.153†	3270.9	176.65	5.40%	[1]	mg/L
As 188.979†	813.9	3.02	0.37%	[0.5]	mg/L
B 208.889†	4509.5	15.87	0.35%	[0.5]	mg/L
Ba 233.527†	2228.0	13.90	0.62%	[0.5]	mg/L
Be 313.107†	129480.2	816.11	0.63%	[0.5]	mg/L
Cd 228.802†	19144.8	342.96	1.79%	[0.5]	mg/L
Co 228.616†	20157.9	308.79	1.53%	[0.5]	mg/L
Cr 267.716†	32837.7	391.08	1.19%	[0.5]	mg/L
Cu 327.393†	62928.1	920.58	1.46%	[0.5]	mg/L
Fe 238.204†	2311.7	110.01	4.76%	[0.5]	mg/L
Mg 285.213†	10805.1	528.52	4.89%	[1]	mg/L
Mn 257.610†	15521.1	710.56	4.58%	[0.5]	mg/L
Mo 202.031†	10107.0	67.28	0.67%	[0.5]	mg/L
Ni 231.604†	18643.5	218.63	1.17%	[0.5]	mg/L
Pb 220.353†	2637.4	23.23	0.88%	[0.5]	mg/L
Sb 206.836†	1285.2	5.17	0.40%	[0.5]	mg/L
Se 196.026†	1200.4	10.65	0.89%	[0.5]	mg/L
Sn 189.927†	3117.0	22.37	0.72%	[0.5]	mg/L
Ti 337.279†	8796.3	407.91	4.64%	[0.5]	mg/L
Tl 351.924†	1065.4	5.63	0.53%	[0.25]	mg/L

Standard intensity and concentration values are not in the same order.

V 290.880†	42005.2	602.76	1.43%	[0.5]	mg/L
Zn 206.200†	16029.9	278.60	1.74%	[0.5]	mg/L
Zr 343.823†	114300.5	1408.44	1.23%	[0.5]	mg/L

Batch ID: OPTIMA 3
Sequence No.: 5 **Autosampler Location: 5**
Sample ID: SEQ-CAL4@ 23J0974 **Date Collected: 5/23/2024 2:57:41 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Rinse Time (before sample): 220

Mean Data: SEQ-CAL4@ 23J0974

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y radial	155496.8	1772.03	1.14%	103	%
Y axial	2731205.8	26153.06	0.96%	101	%
Ag 328.068†	42369.5	615.33	1.45%	[0.5]	mg/L
Al 396.153†	6453.9	64.52	1.00%	[2]	mg/L
As 188.979†	1623.9	15.10	0.93%	[1]	mg/L
B 208.889†	8955.1	52.92	0.59%	[1]	mg/L
Ba 233.527†	4467.7	44.97	1.01%	[1]	mg/L
Be 313.107†	265918.4	324.82	0.12%	[1]	mg/L
Ca 317.933†	12640.0	190.67	1.51%	[2]	mg/L
Cd 228.802†	37973.8	321.99	0.85%	[1]	mg/L
Co 228.616†	39648.7	382.00	0.96%	[1]	mg/L
Cr 267.716†	64967.4	171.14	0.26%	[1]	mg/L
Cu 327.393†	126217.9	95.26	0.08%	[1]	mg/L
Fe 238.204†	4536.9	91.96	2.03%	[1]	mg/L
K 766.490†	3597.4	98.99	2.75%	[2]	mg/L
Mg 285.213†	21237.6	313.86	1.48%	[2]	mg/L
Mn 257.610†	30258.2	497.54	1.64%	[1]	mg/L
Mo 202.031†	20065.3	173.48	0.86%	[1]	mg/L
Na 589.592†	22950.3	100.57	0.44%	[2]	mg/L
Ni 231.604†	36996.7	105.87	0.29%	[1]	mg/L
Pb 220.353†	5254.2	36.93	0.70%	[1]	mg/L
Sb 206.836†	2549.3	34.76	1.36%	[1]	mg/L
Se 196.026†	2374.3	20.46	0.86%	[1]	mg/L
Sn 189.927†	6179.9	57.74	0.93%	[1]	mg/L
Ti 337.279†	17145.6	248.32	1.45%	[1]	mg/L
Tl 351.924†	2141.3	21.46	1.00%	[0.5]	mg/L
Standard intensity and concentration values are not in the same order.					
V 290.880†	83545.6	131.59	0.16%	[1]	mg/L
Zn 206.200†	31780.5	297.75	0.94%	[1]	mg/L
Zr 343.823†	225590.1	393.07	0.17%	[1]	mg/L

Batch ID: OPTIMA 3
Sequence No.: 6 **Autosampler Location: 6**
Sample ID: SEQ-CAL5@ 23J0975 **Date Collected: 5/23/2024 3:04:30 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Rinse Time (before sample): 220

Mean Data: SEQ-CAL5@ 23J0975

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y radial	155652.1	2150.39	1.38%	103	%
Y axial	2712749.1	31175.01	1.15%	100	%
Ag 328.068†	191037.6	723.70	0.38%	[2.5]	mg/L
Al 396.153†	30410.6	28.68	0.09%	[10]	mg/L
As 188.979†	7796.6	138.47	1.78%	[5]	mg/L
B 208.889†	43808.1	699.23	1.60%	[5]	mg/L
Ba 233.527†	21739.5	475.71	2.19%	[5]	mg/L
Be 313.107†	1254377.3	14536.61	1.16%	[5]	mg/L

Ca 317.933†	59306.3	168.82	0.28%	[10]	mg/L
Cd 228.802†	181244.0	341.26	0.19%	[5]	mg/L
Co 228.616†	188252.2	199.61	0.11%	[5]	mg/L
Cr 267.716†	310804.4	140.31	0.05%	[5]	mg/L
Cu 327.393†	612979.4	1514.84	0.25%	[5]	mg/L
Fe 238.204†	21223.3	21.67	0.10%	[5]	mg/L
K 766.490†	17076.6	82.40	0.48%	[10]	mg/L
Mg 285.213†	99243.4	114.70	0.12%	[10]	mg/L
Mn 257.610†	144819.9	182.11	0.13%	[5]	mg/L
Mo 202.031†	96913.2	159.76	0.16%	[5]	mg/L
Na 589.592†	107645.5	80.36	0.07%	[10]	mg/L
Ni 231.604†	174739.3	202.41	0.12%	[5]	mg/L
Pb 220.353†	24789.4	447.50	1.81%	[5]	mg/L
Sb 206.836†	12309.4	182.49	1.48%	[5]	mg/L
Se 196.026†	11350.5	169.21	1.49%	[5]	mg/L
Sn 189.927†	29787.8	468.35	1.57%	[5]	mg/L
Ti 337.279†	83679.7	112.58	0.13%	[5]	mg/L
Tl 351.924†	10272.2	150.80	1.47%	[2.5]	mg/L
Standard intensity and concentration values are not in the same order.					
V 290.880†	400263.4	244.58	0.06%	[5]	mg/L
Zn 206.200†	151553.0	220.46	0.15%	[5]	mg/L
Zr 343.823†	1098538.2	704.71	0.06%	[5]	mg/L

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Batch ID: OPTIMA 3
Sequence No.: 7 **Autosampler Location: 7**
Sample ID: SEQ-CAL6@ 23J0976 **Date Collected: 5/23/2024 3:10:24 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Rinse Time (before sample): 220

Mean Data: SEQ-CAL6@ 23J0976

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y radial	152850.3	582.64	0.38%	101	%
Y axial	2699075.2	45298.56	1.68%	100.0	%
Ag 328.068†	354846.0	7968.19	2.25%	[5]	mg/L
Al 396.153†	61333.6	47.99	0.08%	[20]	mg/L
As 188.979†	15432.7	21.53	0.14%	[10]	mg/L
B 208.889†	85969.8	242.46	0.28%	[10]	mg/L
Ba 233.527†	42720.0	520.25	1.22%	[10]	mg/L
Be 313.107†	2500548.5	45427.16	1.82%	[10]	mg/L
Ca 317.933†	118311.8	61.20	0.05%	[20]	mg/L
Cd 228.802†	358000.3	692.13	0.19%	[10]	mg/L
Co 228.616†	370303.1	370.70	0.10%	[10]	mg/L
Cr 267.716†	614691.0	766.29	0.12%	[10]	mg/L
Cu 327.393†	1229932.2	1823.08	0.15%	[10]	mg/L
Fe 238.204†	42471.9	16.87	0.04%	[10]	mg/L
K 766.490†	34617.7	167.54	0.48%	[20]	mg/L
Mg 285.213†	199163.9	220.38	0.11%	[20]	mg/L
Mn 257.610†	286101.4	134.98	0.05%	[10]	mg/L
Mo 202.031†	190125.3	406.09	0.21%	[10]	mg/L
Na 589.592†	217129.9	3469.38	1.60%	[20]	mg/L
Ni 231.604†	340924.1	331.92	0.10%	[10]	mg/L
Pb 220.353†	48307.6	127.18	0.26%	[10]	mg/L
Sb 206.836†	24318.3	97.52	0.40%	[10]	mg/L
Se 196.026†	22434.2	86.19	0.38%	[10]	mg/L
Sn 189.927†	58072.4	126.85	0.22%	[10]	mg/L
Ti 337.279†	165845.2	139.39	0.08%	[10]	mg/L
Tl 351.924†	20141.7	165.86	0.82%	[5]	mg/L
Standard intensity and concentration values are not in the same order.					
V 290.880†	795956.2	1317.84	0.17%	[10]	mg/L
Zn 206.200†	296349.3	303.88	0.10%	[10]	mg/L
Zr 343.823†	2165671.1	3222.06	0.15%	[10]	mg/L

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Batch ID: OPTIMA 3
Sequence No.: 8 **Autosampler Location: 8**

Sample ID: SEQ-CAL7@ 23J0977 **Date Collected: 5/23/2024 3:16:18 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Rinse Time (before sample): 220

Mean Data: SEQ-CAL7@ 23J0977

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y radial	153117.7	1071.59	0.70%	101	%
Y axial	2648717.9	31615.75	1.19%	98.1	%
Al 396.153†	149492.3	156.75	0.10%	[50]	mg/L
Ca 317.933†	296054.7	717.47	0.24%	[50]	mg/L
Fe 238.204†	108541.4	95.66	0.09%	[25]	mg/L
K 766.490†	86084.6	150.64	0.17%	[50]	mg/L
Mg 285.213†	492767.1	656.46	0.13%	[50]	mg/L
Na 589.592†	535203.1	327.05	0.06%	[50]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	6	Lin Thru 0	0.0	72190	0.00000	0.999377	
Al 396.153	7	Lin Thru 0	0.0	3002	0.00000	0.999954	
As 188.979	6	Lin Thru 0	0.0	1547	0.00000	0.999979	
B 208.889	6	Lin Thru 0	0.0	8633	0.00000	0.999963	
Ba 233.527	6	Lin Thru 0	0.0	4289	0.00000	0.999967	
Be 313.107	6	Lin Thru 0	0.0	250400	0.00000	0.999982	
Ca 317.933	5	Lin Thru 0	0.0	5921	0.00000	0.999997	
Cd 228.802	6	Lin Thru 0	0.0	35910	0.00000	0.999970	
Co 228.616	6	Lin Thru 0	0.0	37180	0.00000	0.999953	
Cr 267.716	6	Lin Thru 0	0.0	61640	0.00000	0.999974	
Cu 327.393	6	Lin Thru 0	0.0	122900	0.00000	0.999996	
Fe 238.204	7	Lin Thru 0	0.0	4326	0.00000	0.999964	
K 766.490	4	Lin Thru 0	0.0	1723	0.00000	0.999996	
Mg 285.213	7	Lin Thru 0	0.0	9873	0.00000	0.999988	
Mn 257.610	6	Lin Thru 0	0.0	28700	0.00000	0.999969	
Mo 202.031	6	Lin Thru 0	0.0	19100	0.00000	0.999956	
Na 589.592	4	Lin Thru 0	0.0	10730	0.00000	0.999985	
Ni 231.604	6	Lin Thru 0	0.0	34290	0.00000	0.999918	
Pb 220.353	6	Lin Thru 0	0.0	4860	0.00000	0.999912	
Sb 206.836	6	Lin Thru 0	0.0	2439	0.00000	0.999977	
Se 196.026	6	Lin Thru 0	0.0	2250	0.00000	0.999972	
Sn 189.927	6	Lin Thru 0	0.0	5841	0.00000	0.999929	
Ti 337.279	6	Lin Thru 0	0.0	16620	0.00000	0.999986	
Tl 351.924	6	Lin Thru 0	0.0	4047	0.00000	0.999950	
V 290.880	6	Lin Thru 0	0.0	79730	0.00000	0.999985	
Zn 206.200	6	Lin Thru 0	0.0	29790	0.00000	0.999936	
Zr 343.823	5	Lin Thru 0	0.0	217300	0.00000	0.999975	

ALL PASSED - COEF > 0.998 - HNN 052424

Calibration data for Ag 328.068 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	65.69	120.51	N/A
SEQ-CAL1@ 23J0971	864.1	0.01	0.0120	20.55	2.38	19.70%
SEQ-CAL2@ 23J0972	5372.0	0.0625	0.0744	196.58	3.66	19.06%
SEQ-CAL3@ 23J0973	22077.2	0.25	0.3058	135.51	0.61	22.32%
SEQ-CAL4@ 23J0974	42369.5	0.5	0.5869	615.33	1.45	17.38%
SEQ-CAL5@ 23J0975	191037.6	2.5	2.646	723.70	0.38	5.85%
SEQ-CAL6@ 23J0976	354846.0	5.0	4.915	7968.19	2.25	-1.69%

Correlation Coef.: 0.999377 Slope: 72190 Intercept: 0.0

Calibration data for Al 396.153 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	26.69	53.93	N/A
SEQ-CAL1@ 23J0971	147.7	0.05	0.0492	42.45	28.73	-1.58%
SEQ-CAL2@ 23J0972	771.1	0.25	0.2569	18.56	2.41	2.74%
SEQ-CAL3@ 23J0973	3270.9	1.0	1.089	176.65	5.40	8.95%
SEQ-CAL4@ 23J0974	6453.9	2.0	2.150	64.52	1.00	7.49%
SEQ-CAL5@ 23J0975	30410.6	10.0	10.13	28.68	0.09	1.29%
SEQ-CAL6@ 23J0976	61333.6	20.0	20.43	47.99	0.08	2.15%
SEQ-CAL7@ 23J0977	149492.3	50.0	49.79	156.75	0.10	-0.41%

Correlation Coef.: 0.999954 Slope: 3002 Intercept: 0.0

Calibration data for As 188.979 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	1.81	2.80	N/A
SEQ-CAL1@ 23J0971	12.3	0.01	0.0080	2.76	22.45	-20.46%
SEQ-CAL2@ 23J0972	204.5	0.125	0.1322	3.27	1.60	5.76%
SEQ-CAL3@ 23J0973	813.9	0.5	0.5260	3.02	0.37	5.20%
SEQ-CAL4@ 23J0974	1623.9	1.0	1.050	15.10	0.93	4.95%
SEQ-CAL5@ 23J0975	7796.6	5.0	5.039	138.47	1.78	0.78%
SEQ-CAL6@ 23J0976	15432.7	10.0	9.974	21.53	0.14	-0.26%

Correlation Coef.: 0.999979 Slope: 1547 Intercept: 0.0

Calibration data for B 208.889 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	3.07	2.66	N/A
SEQ-CAL1@ 23J0971	875.7	0.1	0.1014	15.43	1.76	1.43%
SEQ-CAL2@ 23J0972	1137.1	0.125	0.1317	18.44	1.62	5.37%
SEQ-CAL3@ 23J0973	4509.5	0.5	0.5223	15.87	0.35	4.47%
SEQ-CAL4@ 23J0974	8955.1	1.0	1.037	52.92	0.59	3.73%
SEQ-CAL5@ 23J0975	43808.1	5.0	5.074	699.23	1.60	1.49%
SEQ-CAL6@ 23J0976	85969.8	10.0	9.958	242.46	0.28	-0.42%

Correlation Coef.: 0.999963 Slope: 8633 Intercept: 0.0

Calibration data for Ba 233.527 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	4.73	17.73	N/A
SEQ-CAL1@ 23J0971	222.6	0.05	0.0519	2.68	1.20	3.80%
SEQ-CAL2@ 23J0972	550.3	0.125	0.1283	13.60	2.47	2.65%
SEQ-CAL3@ 23J0973	2228.0	0.5	0.5195	13.90	0.62	3.89%
SEQ-CAL4@ 23J0974	4467.7	1.0	1.042	44.97	1.01	4.17%
SEQ-CAL5@ 23J0975	21739.5	5.0	5.069	475.71	2.19	1.37%
SEQ-CAL6@ 23J0976	42720.0	10.0	9.960	520.25	1.22	-0.40%

Correlation Coef.: 0.999967 Slope: 4289 Intercept: 0.0

Calibration data for Be 313.107 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	4.25	11.13	N/A
SEQ-CAL1@ 23J0971	1129.9	0.004	0.0045	16.66	1.47	12.83%
SEQ-CAL2@ 23J0972	32997.9	0.125	0.1318	72.54	0.22	5.44%
SEQ-CAL3@ 23J0973	129480.2	0.5	0.5172	816.11	0.63	3.43%
SEQ-CAL4@ 23J0974	265918.4	1.0	1.062	324.82	0.12	6.21%
SEQ-CAL5@ 23J0975	1254377.3	5.0	5.010	14536.61	1.16	0.20%
SEQ-CAL6@ 23J0976	2500548.5	10.0	9.988	45427.16	1.82	-0.12%

Correlation Coef.: 0.999982 Slope: 250400 Intercept: 0.0

Calibration data for Ca 317.933 **Equation: Linear Through Zero**

	Mean Signal	Entered Conc.	Calculated Conc.	Standard		Residual

ID	(Em)	mg/L	mg/L	Deviation	%RSD	Error
Cal Blank@ 23J0970	0.0	0	0.0000	10.89	1.23	N/A
SEQ-CAL1@ 23J0971	3023.1	0.5	0.5106	35.69	1.18	2.11%
SEQ-CAL4@ 23J0974	12640.0	2.0	2.135	190.67	1.51	6.73%
SEQ-CAL5@ 23J0975	59306.3	10.0	10.02	168.82	0.28	0.16%
SEQ-CAL6@ 23J0976	118311.8	20.0	19.98	61.20	0.05	-0.10%
SEQ-CAL7@ 23J0977	296054.7	50.0	50.00	717.47	0.24	-0.00%

Correlation Coef.: 0.999997 Slope: 5921 Intercept: 0.0

Calibration data for Cd 228.802 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	6.53	4.21	N/A
SEQ-CAL1@ 23J0971	164.4	0.004	0.0046	5.32	3.24	14.43%
SEQ-CAL2@ 23J0972	4755.4	0.125	0.1324	70.12	1.47	5.94%
SEQ-CAL3@ 23J0973	19144.8	0.5	0.5331	342.96	1.79	6.62%
SEQ-CAL4@ 23J0974	37973.8	1.0	1.057	321.99	0.85	5.74%
SEQ-CAL5@ 23J0975	181244.0	5.0	5.047	341.26	0.19	0.94%
SEQ-CAL6@ 23J0976	358000.3	10.0	9.969	692.13	0.19	-0.31%

Correlation Coef.: 0.999970 Slope: 35910 Intercept: 0.0

Calibration data for Co 228.616 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	5.58	5.55	N/A
SEQ-CAL1@ 23J0971	410.6	0.01	0.0110	7.30	1.78	10.45%
SEQ-CAL2@ 23J0972	4939.5	0.125	0.1329	75.06	1.52	6.28%
SEQ-CAL3@ 23J0973	20157.9	0.5	0.5422	308.79	1.53	8.43%
SEQ-CAL4@ 23J0974	39648.7	1.0	1.066	382.00	0.96	6.64%
SEQ-CAL5@ 23J0975	188252.2	5.0	5.063	199.61	0.11	1.26%
SEQ-CAL6@ 23J0976	370303.1	10.0	9.960	370.70	0.10	-0.40%

Correlation Coef.: 0.999953 Slope: 37180 Intercept: 0.0

Calibration data for Cr 267.716 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	8.23	9.71	N/A
SEQ-CAL1@ 23J0971	678.4	0.01	0.0110	19.93	2.94	10.05%
SEQ-CAL2@ 23J0972	8012.8	0.125	0.1300	95.73	1.19	3.99%
SEQ-CAL3@ 23J0973	32837.7	0.5	0.5327	391.08	1.19	6.54%
SEQ-CAL4@ 23J0974	64967.4	1.0	1.054	171.14	0.26	5.39%
SEQ-CAL5@ 23J0975	310804.4	5.0	5.042	140.31	0.05	0.84%
SEQ-CAL6@ 23J0976	614691.0	10.0	9.972	766.29	0.12	-0.28%

Correlation Coef.: 0.999974 Slope: 61640 Intercept: 0.0

Calibration data for Cu 327.393 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	33.84	17.41	N/A
SEQ-CAL1@ 23J0971	1393.6	0.01	0.0113	37.94	2.72	13.35%
SEQ-CAL2@ 23J0972	14860.7	0.125	0.1209	140.22	0.94	-3.30%
SEQ-CAL3@ 23J0973	62928.1	0.5	0.5118	920.58	1.46	2.37%
SEQ-CAL4@ 23J0974	126217.9	1.0	1.027	95.26	0.08	2.66%
SEQ-CAL5@ 23J0975	612979.4	5.0	4.986	1514.84	0.25	-0.28%
SEQ-CAL6@ 23J0976	1229932.2	10.0	10.00	1823.08	0.15	0.04%

Correlation Coef.: 0.999996 Slope: 122900 Intercept: 0.0

Calibration data for Fe 238.204 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error

Cal Blank@ 23J0970	0.0	0	0.0000	3.75	4.41	N/A
SEQ-CAL1@ 23J0971	223.1	0.05	0.0516	7.47	3.35	3.16%
SEQ-CAL2@ 23J0972	562.3	0.125	0.1300	5.34	0.95	3.98%
SEQ-CAL3@ 23J0973	2311.7	0.5	0.5343	110.01	4.76	6.87%
SEQ-CAL4@ 23J0974	4536.9	1.0	1.049	91.96	2.03	4.87%
SEQ-CAL5@ 23J0975	21223.3	5.0	4.906	21.67	0.10	-1.89%
SEQ-CAL6@ 23J0976	42471.9	10.0	9.817	16.87	0.04	-1.83%
SEQ-CAL7@ 23J0977	108541.4	25.0	25.09	95.66	0.09	0.36%

Correlation Coef.: 0.999964 Slope: 4326 Intercept: 0.0

Calibration data for K 766.490 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	140.72	18.43	N/A
SEQ-CAL4@ 23J0974	3597.4	2.0	2.088	98.99	2.75	4.42%
SEQ-CAL5@ 23J0975	17076.6	10.0	9.914	82.40	0.48	-0.86%
SEQ-CAL6@ 23J0976	34617.7	20.0	20.10	167.54	0.48	0.48%
SEQ-CAL7@ 23J0977	86084.6	50.0	49.98	150.64	0.17	-0.05%

Correlation Coef.: 0.999996 Slope: 1723 Intercept: 0.0

Calibration data for Mg 285.213 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	6.83	3.32	N/A
SEQ-CAL1@ 23J0971	508.6	0.05	0.0515	8.06	1.59	3.03%
SEQ-CAL2@ 23J0972	2643.6	0.25	0.2678	46.71	1.77	7.11%
SEQ-CAL3@ 23J0973	10805.1	1.0	1.094	528.52	4.89	9.44%
SEQ-CAL4@ 23J0974	21237.6	2.0	2.151	313.86	1.48	7.56%
SEQ-CAL5@ 23J0975	99243.4	10.0	10.05	114.70	0.12	0.52%
SEQ-CAL6@ 23J0976	199163.9	20.0	20.17	220.38	0.11	0.87%
SEQ-CAL7@ 23J0977	492767.1	50.0	49.91	656.46	0.13	-0.18%

Correlation Coef.: 0.999988 Slope: 9873 Intercept: 0.0

Calibration data for Mn 257.610 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	4.81	1.18	N/A
SEQ-CAL1@ 23J0971	329.9	0.01	0.0115	1.88	0.57	14.97%
SEQ-CAL2@ 23J0972	3793.0	0.125	0.1322	48.93	1.29	5.73%
SEQ-CAL3@ 23J0973	15521.1	0.5	0.5408	710.56	4.58	8.17%
SEQ-CAL4@ 23J0974	30258.2	1.0	1.054	497.54	1.64	5.44%
SEQ-CAL5@ 23J0975	144819.9	5.0	5.046	182.11	0.13	0.93%
SEQ-CAL6@ 23J0976	286101.4	10.0	9.969	134.98	0.05	-0.31%

Correlation Coef.: 0.999969 Slope: 28700 Intercept: 0.0

Calibration data for Mo 202.031 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	6.61	6.37	N/A
SEQ-CAL1@ 23J0971	1005.3	0.05	0.0526	17.94	1.78	5.29%
SEQ-CAL2@ 23J0972	2524.6	0.125	0.1322	33.08	1.31	5.76%
SEQ-CAL3@ 23J0973	10107.0	0.5	0.5293	67.28	0.67	5.85%
SEQ-CAL4@ 23J0974	20065.3	1.0	1.051	173.48	0.86	5.07%
SEQ-CAL5@ 23J0975	96913.2	5.0	5.075	159.76	0.16	1.50%
SEQ-CAL6@ 23J0976	190125.3	10.0	9.956	406.09	0.21	-0.44%

Correlation Coef.: 0.999956 Slope: 19100 Intercept: 0.0

Calibration data for Na 589.592 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error

Cal Blank@ 23J0970	0.0	0	0.0000	58.22	33.90	N/A
SEQ-CAL4@ 23J0974	22950.3	2.0	2.139	100.57	0.44	6.97%
SEQ-CAL5@ 23J0975	107645.5	10.0	10.03	80.36	0.07	0.35%
SEQ-CAL6@ 23J0976	217129.9	20.0	20.24	3469.38	1.60	1.20%
SEQ-CAL7@ 23J0977	535203.1	50.0	49.89	327.05	0.06	-0.22%

Correlation Coef.: 0.999985 Slope: 10730 Intercept: 0.0

Calibration data for Ni 231.604 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	2.58	0.54	N/A
SEQ-CAL1@ 23J0971	381.3	0.01	0.0111	8.56	2.24	11.21%
SEQ-CAL2@ 23J0972	4440.9	0.125	0.1295	87.90	1.98	3.60%
SEQ-CAL3@ 23J0973	18643.5	0.5	0.5437	218.63	1.17	8.74%
SEQ-CAL4@ 23J0974	36996.7	1.0	1.079	105.87	0.29	7.89%
SEQ-CAL5@ 23J0975	174739.3	5.0	5.096	202.41	0.12	1.91%
SEQ-CAL6@ 23J0976	340924.1	10.0	9.942	331.92	0.10	-0.58%

Correlation Coef.: 0.999918 Slope: 34290 Intercept: 0.0

Calibration data for Pb 220.353 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	7.10	59.61	N/A
SEQ-CAL1@ 23J0971	57.1	0.01	0.0117	1.81	3.16	17.48%
SEQ-CAL2@ 23J0972	661.0	0.125	0.1360	8.59	1.30	8.80%
SEQ-CAL3@ 23J0973	2637.4	0.5	0.5426	23.23	0.88	8.53%
SEQ-CAL4@ 23J0974	5254.2	1.0	1.081	36.93	0.70	8.11%
SEQ-CAL5@ 23J0975	24789.4	5.0	5.100	447.50	1.81	2.01%
SEQ-CAL6@ 23J0976	48307.6	10.0	9.939	127.18	0.26	-0.61%

Correlation Coef.: 0.999912 Slope: 4860 Intercept: 0.0

Calibration data for Sb 206.836 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	2.44	3.08	N/A
SEQ-CAL1@ 23J0971	116.2	0.05	0.0476	2.48	2.13	-4.74%
SEQ-CAL2@ 23J0972	325.6	0.125	0.1335	4.95	1.52	6.80%
SEQ-CAL3@ 23J0973	1285.2	0.5	0.5269	5.17	0.40	5.39%
SEQ-CAL4@ 23J0974	2549.3	1.0	1.045	34.76	1.36	4.52%
SEQ-CAL5@ 23J0975	12309.4	5.0	5.047	182.49	1.48	0.94%
SEQ-CAL6@ 23J0976	24318.3	10.0	9.971	97.52	0.40	-0.29%

Correlation Coef.: 0.999977 Slope: 2439 Intercept: 0.0

Calibration data for Se 196.026 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	1.88	9.73	N/A
SEQ-CAL1@ 23J0971	115.5	0.05	0.0513	11.36	9.84	2.62%
SEQ-CAL2@ 23J0972	307.0	0.125	0.1364	11.10	3.62	9.15%
SEQ-CAL3@ 23J0973	1200.4	0.5	0.5335	10.65	0.89	6.70%
SEQ-CAL4@ 23J0974	2374.3	1.0	1.055	20.46	0.86	5.52%
SEQ-CAL5@ 23J0975	11350.5	5.0	5.044	169.21	1.49	0.89%
SEQ-CAL6@ 23J0976	22434.2	10.0	9.970	86.19	0.38	-0.30%

Correlation Coef.: 0.999972 Slope: 2250 Intercept: 0.0

Calibration data for Sn 189.927 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	3.34	6.02	N/A
SEQ-CAL1@ 23J0971	613.8	0.1	0.1051	9.40	1.53	5.09%

SEQ-CAL2@ 23J0972	787.9	0.125	0.1349	9.72	1.23	7.92%
SEQ-CAL3@ 23J0973	3117.0	0.5	0.5336	22.37	0.72	6.73%
SEQ-CAL4@ 23J0974	6179.9	1.0	1.058	57.74	0.93	5.80%
SEQ-CAL5@ 23J0975	29787.8	5.0	5.100	468.35	1.57	2.00%
SEQ-CAL6@ 23J0976	58072.4	10.0	9.942	126.85	0.22	-0.58%

Correlation Coef.: 0.999929 Slope: 5841 Intercept: 0.0

Calibration data for Ti 337.279 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	3.31	1.86	N/A
SEQ-CAL1@ 23J0971	343.1	0.02	0.0206	4.88	1.42	3.21%
SEQ-CAL2@ 23J0972	2156.1	0.125	0.1297	31.26	1.45	3.78%
SEQ-CAL3@ 23J0973	8796.3	0.5	0.5292	407.91	4.64	5.85%
SEQ-CAL4@ 23J0974	17145.6	1.0	1.032	248.32	1.45	3.16%
SEQ-CAL5@ 23J0975	83679.7	5.0	5.035	112.58	0.13	0.69%
SEQ-CAL6@ 23J0976	165845.2	10.0	9.978	139.39	0.08	-0.22%

Correlation Coef.: 0.999986 Slope: 16620 Intercept: 0.0

Calibration data for Tl 351.924 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	23.22	52.66	N/A
SEQ-CAL1@ 23J0971	230.0	0.05	0.0568	44.48	19.34	13.68%
SEQ-CAL2@ 23J0972	211.8	0.0625	0.0523	109.20	51.56	-16.25%
SEQ-CAL3@ 23J0973	1065.4	0.25	0.2633	5.63	0.53	5.31%
SEQ-CAL4@ 23J0974	2141.3	0.5	0.5292	21.46	1.00	5.83%
SEQ-CAL5@ 23J0975	10272.2	2.5	2.538	150.80	1.47	1.54%
SEQ-CAL6@ 23J0976	20141.7	5.0	4.977	165.86	0.82	-0.45%

Correlation Coef.: 0.999950 Slope: 4047 Intercept: 0.0

Calibration data for V 290.880 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	39.18	1.96	N/A
SEQ-CAL1@ 23J0971	778.7	0.01	0.0098	23.86	3.06	-2.33%
SEQ-CAL2@ 23J0972	10232.4	0.125	0.1283	108.11	1.06	2.67%
SEQ-CAL3@ 23J0973	42005.2	0.5	0.5269	602.76	1.43	5.37%
SEQ-CAL4@ 23J0974	83545.6	1.0	1.048	131.59	0.16	4.79%
SEQ-CAL5@ 23J0975	400263.4	5.0	5.020	244.58	0.06	0.41%
SEQ-CAL6@ 23J0976	795956.2	10.0	9.984	1317.84	0.17	-0.16%

Correlation Coef.: 0.999985 Slope: 79730 Intercept: 0.0

Calibration data for Zn 206.200 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	4.43	1.77	N/A
SEQ-CAL1@ 23J0971	341.1	0.01	0.0115	6.68	1.96	14.51%
SEQ-CAL2@ 23J0972	3868.0	0.125	0.1298	44.17	1.14	3.87%
SEQ-CAL3@ 23J0973	16029.9	0.5	0.5381	278.60	1.74	7.62%
SEQ-CAL4@ 23J0974	31780.5	1.0	1.067	297.75	0.94	6.68%
SEQ-CAL5@ 23J0975	151553.0	5.0	5.087	220.46	0.15	1.75%
SEQ-CAL6@ 23J0976	296349.3	10.0	9.948	303.88	0.10	-0.52%

Correlation Coef.: 0.999936 Slope: 29790 Intercept: 0.0

Calibration data for Zr 343.823 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
Cal Blank@ 23J0970	0.0	0	0.0000	22.67	12.24	N/A
SEQ-CAL2@ 23J0972	27632.7	0.125	0.1272	239.38	0.87	1.74%

SEQ-CAL3@ 23J0973	114300.5	0.5	0.5260	1408.44	1.23	5.21%
SEQ-CAL4@ 23J0974	225590.1	1.0	1.038	393.07	0.17	3.82%
SEQ-CAL5@ 23J0975	1098538.2	5.0	5.056	704.71	0.06	1.12%
SEQ-CAL6@ 23J0976	2165671.1	10.0	9.967	3222.06	0.15	-0.33%

Correlation Coef.: 0.999975 Slope: 217300 Intercept: 0.0

NO AG - HNN 052424

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Analysis Begun

Start Time: 5/23/2024 3:27:53 PM **Plasma On Time: 5/23/2024 9:36:38 AM**
Originator: Optima8300 **Technique: ICP Continuous**
Spectrometer: Optima 8300 , S/N 078S1703073 **Autosampler: S10**

Sample Information File: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Sample Information\ 0523A24.sifx
Results Data Set: 0523A24
Results Library: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Results\Results.mdb

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Method Loaded
Method Name: ICP3 012424_IEC* **Method Last Saved: 5/23/2024 2:32:09 PM**
IEC File: 011224.iec **MSF File:**
Method Description: Soils and Waters

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Al 396.153	Lin Thru 0	Peak Area	Radial	Y radial	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Y axial	Yes
B 208.889	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ba 233.527	Lin Thru 0	Peak Area	Radial	Y axial	Yes
Be 313.107	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Cd 228.802	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cu 327.393	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Fe 238.204	Lin Thru 0	Peak Area	Radial	Y radial	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mg 285.213	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mn 257.610	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Na 589.592	Lin Thru 0	Peak Area	Radial	Y radial	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ti 337.279	Lin Thru 0	Peak Area	Radial	Y radial	No
Tl 351.924	Lin Thru 0	Peak Area	Axial	Y axial	Yes
V 290.880	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Y radial	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Y axial	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 206.200	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Zr 343.823	Lin Thru 0	Peak Area	Axial	Y axial	No

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Batch ID: OPTIMA 3
Sequence No.: 1 **Autosampler Location: 8**
Sample ID: SEQ-ICV@ 23I0972 **Date Collected: 5/23/2024 3:27:54 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Rinse Time (before sample):

Replicate Data: SEQ-ICV@ 23I0972

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Y radial	151199.2	151199.2	99.7	%	99.7	%	3:29:08 PM
1	Al 396.153†	6519.9	6491.0	2.067	mg/L	2.067	mg/L	3:29:08 PM
1	Ba 233.527†	8618.3	8694.4	2.026	mg/L	2.026	mg/	
1	Be 313.107†	520634.0	522319.0	2.077	mg/L	2.077	mg/	
1	Ca 317.933†	13022.7	12179.1	2.056	mg/L	2.056	mg/	
1	Fe 238.204†	8897.0	9010.1	2.101	mg/L	2.101	mg/L	3:29:08 PM
1	K 766.490†	4206.8	3456.7	2.006	mg/L	2.006	mg/L	3:29:08 PM

RR - HNN 052424

1	Mg 285.213†	20904.7	20765.3	2.106 mg/L	2.106 mg/L	3:29:08 PM
1	Mn 257.610†	57961.1	58551.4	2.041 mg/L	2.041 mg/L	3:29:08 PM
1	Na 589.592†	22557.6	22457.2	2.093 mg/L	2.093 mg/L	3:29:08 PM
1	Ti 337.279†	33327.2	33610.6	2.022 mg/L	2.022 mg/L	3:29:08 PM
1	Y axial	2684656.6	2684656.6	99.4 %	99.4 %	3:29:24 PM
1	As 188.979†	3151.9	3234.5	2.088 mg/L	2.088 mg/L	3:29:44 PM
1	B 208.889†	17917.2	17904.7	1.975 mg/L	1.975 mg/L	3:29:44 PM
1	Cd 228.802†	73472.6	73738.9	2.035 mg/L	2.035 mg/L	3:29:24 PM
1	Co 228.616†	76636.4	76975.5	2.070 mg/L	2.070 mg/L	3:29:24 PM
1	Cr 267.716†	127452.8	128099.2	2.079 mg/L	2.079 mg/L	3:29:24 PM
1	Cu 327.393†	248506.4	249737.6	2.035 mg/L	2.035 mg/L	3:29:24 PM
1	Mo 202.031†	39007.8	39127.9	2.049 mg/L	2.049 mg/L	3:29:24 PM
1	Ni 231.604†	71514.8	71449.5	2.081 mg/L	2.081 mg/L	3:29:24 PM
1	Pb 220.353†	10328.0	10375.4	2.137 mg/L	2.137 mg/L	3:29:44 PM
1	Sb 206.836†	5161.4	5111.6	2.108 mg/L	2.108 mg/L	3:29:44 PM
1	Se 196.026†	4665.3	4711.3	2.093 mg/L	2.093 mg/L	3:29:44 PM
1	Sn 189.927†	12392.7	12519.3	2.147 mg/L	2.147 mg/L	3:29:44 PM
1	Tl 351.924†	4215.2	4283.4	1.069 mg/L	1.069 mg/L	3:29:44 PM
1	V 290.880†	162910.2	161843.0	2.086 mg/L	2.086 mg/L	3:29:24 PM
1	Zn 206.200†	60782.3	61381.6	2.081 mg/L	2.081 mg/L	3:29:24 PM
1	Zr 343.823†	434894.3	437203.9	2.012 mg/L	2.012 mg/L	3:29:24 PM
1	Ag 328.068†	77629.9	78020.7	1.081 mg/L	1.081 mg/L	3:31:04 PM
2	Y radial	152776.6	152776.6	101 %	101 %	3:29:12 PM
2	Al 396.153†	6523.6	6427.2	2.046 mg/L	2.046 mg/L	3:29:12 PM
2	Ba 233.527†	8707.4	8805.3	2.052 mg/L	2.052 mg/L	3:29:12 PM
2	Be 313.107†	532293.8	528502.3	2.102 mg/L	2.102 mg/L	3:29:10 PM
2	Ca 317.933†	13178.4	12198.8	2.060 mg/L	2.060 mg/L	3:29:12 PM
2	Fe 238.204†	9002.8	9023.0	2.104 mg/L	2.104 mg/L	3:29:12 PM
2	K 766.490†	4249.1	3455.1	2.005 mg/L	2.005 mg/L	3:29:12 PM
2	Mg 285.213†	21171.9	20814.0	2.111 mg/L	2.111 mg/L	3:29:12 PM
2	Mn 257.610†	58512.4	58498.3	2.039 mg/L	2.039 mg/L	3:29:12 PM
2	Na 589.592†	22724.2	22389.0	2.087 mg/L	2.087 mg/L	3:29:12 PM
2	Ti 337.279†	33777.9	33712.8	2.028 mg/L	2.028 mg/L	3:29:12 PM
2	Y axial	2678135.5	2678135.5	99.2 %	99.2 %	3:29:47 PM
2	As 188.979†	3122.6	3212.7	2.074 mg/L	2.074 mg/L	3:30:07 PM
2	B 208.889†	17762.9	17793.0	1.962 mg/L	1.962 mg/L	3:30:07 PM
2	Cd 228.802†	73156.5	73600.2	2.031 mg/L	2.031 mg/L	PM
2	Co 228.616†	76253.8	76777.4	2.065 mg/L	2.065 mg/L	PM
2	Cr 267.716†	126767.8	127720.7	2.072 mg/L	2.072 mg/L	PM
2	Cu 327.393†	248232.0	250069.5	2.037 mg/L	2.037 mg/L	3:29:47 PM
2	Mo 202.031†	38730.2	38943.5	2.040 mg/L	2.040 mg/L	3:29:47 PM
2	Ni 231.604†	71227.7	71335.1	2.078 mg/L	2.078 mg/L	3:29:47 PM
2	Pb 220.353†	10225.7	10297.5	2.121 mg/L	2.121 mg/L	3:30:07 PM
2	Sb 206.836†	5094.9	5057.2	2.085 mg/L	2.085 mg/L	3:30:07 PM
2	Se 196.026†	4608.5	4665.5	2.072 mg/L	2.072 mg/L	3:30:07 PM
2	Sn 189.927†	12253.1	12408.9	2.129 mg/L	2.129 mg/L	3:30:07 PM
2	Tl 351.924†	4143.1	4221.1	1.053 mg/L	1.053 mg/L	3:30:07 PM
2	V 290.880†	162344.3	161671.4	2.083 mg/L	2.083 mg/L	3:29:47 PM
2	Zn 206.200†	60586.8	61333.4	2.079 mg/L	2.079 mg/L	3:29:47 PM
2	Zr 343.823†	434271.4	437640.9	2.014 mg/L	2.014 mg/L	3:29:47 PM
2	Ag 328.068†	81445.4	82057.5	1.137 mg/L	1.137 mg/L	3:31:06 PM
3	Y radial	153495.8	153495.8	101 %	101 %	3:29:16 PM
3	Al 396.153†	6577.0	6449.6	2.053 mg/L	2.053 mg/L	3:29:16 PM
3	Ba 233.527†	8763.3	8844.0	2.061 mg/L	2.061 mg/L	3:29:16 PM
3	Be 313.107†	529137.0	522906.9	2.079 mg/L	2.079 mg/L	3:29:14 PM
3	Ca 317.933†	13236.9	12195.3	2.059 mg/L	2.059 mg/L	3:29:16 PM
3	Fe 238.204†	9030.7	9008.7	2.101 mg/L	2.101 mg/L	3:29:16 PM
3	K 766.490†	4269.4	3455.4	2.006 mg/L	2.006 mg/L	3:29:16 PM
3	Mg 285.213†	21221.2	20764.2	2.106 mg/L	2.106 mg/L	3:29:16 PM
3	Mn 257.610†	58995.3	58703.3	2.046 mg/L	2.046 mg/L	3:29:16 PM
3	Na 589.592†	22795.8	22354.0	2.084 mg/L	2.084 mg/L	3:29:16 PM
3	Ti 337.279†	33798.3	33575.8	2.020 mg/L	2.020 mg/L	3:29:16 PM
3	Y axial	2683489.4	2683489.4	99.4 %	99.4 %	3:30:10 PM
3	As 188.979†	3107.3	3191.0	2.060 mg/L	2.060 mg/L	3:30:30 PM
3	B 208.889†	17820.3	17815.0	1.964 mg/L	1.964 mg/L	3:30:30 PM
3	Cd 228.802†	73594.8	73894.0	2.040 mg/L	2.040 mg/L	3:30:10 PM
3	Co 228.616†	76726.8	77099.9	2.073 mg/L	2.073 mg/L	3:30:10 PM
3	Cr 267.716†	127601.5	128304.6	2.082 mg/L	2.082 mg/L	3:30:10 PM
3	Cu 327.393†	248671.5	250012.5	2.037 mg/L	2.037 mg/L	3:30:10 PM
3	Mo 202.031†	38970.0	39106.9	2.048 mg/L	2.048 mg/L	3:30:10 PM

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3	Ni 231.604†	71512.4	71478.4	2.082 mg/L	2.082 mg/L	3:30:10 PM
3	Pb 220.353†	10208.6	10259.7	2.113 mg/L	2.113 mg/L	3:30:30 PM
3	Sb 206.836†	5078.7	5030.6	2.074 mg/L	2.074 mg/L	3:30:30 PM
3	Se 196.026†	4569.3	4616.8	2.051 mg/L	2.051 mg/L	3:30:30 PM
3	Sn 189.927†	12207.5	12338.3	2.116 mg/L	2.116 mg/L	3:30:30 PM
3	Tl 351.924†	4144.0	4213.7	1.051 mg/L	1.051 mg/L	3:30:30 PM
3	V 290.880†	163509.4	162517.2	2.094 mg/L	2.094 mg/L	3:30:10 PM
3	Zn 206.200†	60891.9	61518.6	2.085 mg/L	2.085 mg/L	3:30:10 PM
3	Zr 343.823†	435782.3	438287.6	2.017 mg/L	2.017 mg/L	3:30:10 PM
3	Ag 328.068†	79912.5	80351.4	1.113 mg/L	1.113 mg/L	3:31:08 PM
4	Y radial	151747.3	151747.3	100 %	100 %	3:29:20 PM
4	Al 396.153†	6528.6	6476.1	2.062 mg/L	2.062 mg/L	3:29:20 PM
4	Ba 233.527†	8684.4	8700.3	2.028 mg/L	2.028 mg/L	3:29:20 PM
4	Be 313.107†	527629.2	527424.5	2.098 mg/L	2.098 mg/L	3:29:18 PM
4	Ca 317.933†	13135.2	12244.4	2.067 mg/L	2.067 mg/L	3:29:20 PM
4	Fe 238.204†	8907.8	8988.7	2.096 mg/L	2.096 mg/L	3:29:20 PM
4	K 766.490†	4306.6	3541.3	2.055 mg/L	2.055 mg/L	3:29:20 PM
4	Mg 285.213†	21098.7	20883.4	2.118 mg/L	2.118 mg/L	3:29:20 PM
4	Mn 257.610†	58375.8	58755.9	2.048 mg/L	2.048 mg/L	3:29:20 PM
4	Na 589.592†	22720.4	22538.2	2.101 mg/L	2.101 mg/L	3:29:20 PM
4	Ti 337.279†	33604.6	33767.1	2.032 mg/L	2.032 mg/L	3:29:20 PM
4	Y axial	2703411.8	2703411.8	100 %	100 %	3:30:32 PM
4	As 188.979†	3131.2	3191.8	2.060 mg/L	2.060 mg/L	3:30:52 PM
4	B 208.889†	17924.5	17787.0	1.961 mg/L	1.961 mg/L	3:30:52 PM
4	Cd 228.802†	74384.0	74136.5	2.046 mg/L	2.046 mg/L	3:30:32 PM
4	Co 228.616†	77582.8	77385.9	2.081 mg/L	2.081 mg/L	3:30:32 PM
4	Cr 267.716†	128645.9	128401.5	2.083 mg/L	2.083 mg/L	3:30:32 PM
4	Cu 327.393†	250198.4	249693.6	2.034 mg/L	2.034 mg/L	3:30:32 PM
4	Mo 202.031†	39190.5	39038.2	2.045 mg/L	2.045 mg/L	3:30:32 PM
4	Ni 231.604†	71933.9	71369.1	2.079 mg/L	2.079 mg/L	3:30:32 PM
4	Pb 220.353†	10239.0	10214.4	2.104 mg/L	2.104 mg/L	3:30:52 PM
4	Sb 206.836†	5101.4	5015.7	2.068 mg/L	2.068 mg/L	3:30:52 PM
4	Se 196.026†	4624.6	4638.1	2.060 mg/L	2.060 mg/L	3:30:52 PM
4	Sn 189.927†	12299.7	12339.9	2.117 mg/L	2.117 mg/L	3:30:52 PM
4	Tl 351.924†	4189.3	4228.2	1.055 mg/L	1.055 mg/L	3:30:52 PM
4	V 290.880†	164387.4	162181.7	2.090 mg/L	2.090 mg/L	3:30:32 PM
4	Zn 206.200†	61318.5	61493.0	2.085 mg/L	2.085 mg/L	3:30:32 PM
4	Zr 343.823†	437635.5	436907.3	2.011 mg/L	[illegible]	3:30:32 PM
4	Ag 328.068†	78033.7	77882.4	1.079 mg/L		3:31:10 PM

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Mean Data: SEQ-ICV@ 23I0972

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	152304.7	100	%	0.68	100	%	0.68	0.68%
Y axial	2687423.3	99.5	%	0.41	99.5	%	0.41	0.41%
Ag 328.068†	79578.0	1.102	mg/L	0.0278	1.102	mg/L	0.0278	2.52%
QC value greater than the upper limit for Ag 328.068 Recovery = 110.23%								
Al 396.153†	6461.0	2.057	mg/L	0.0093	2.057	mg/L	0.0093	0.45%
QC value within limits for Al 396.153 Recovery = 102.84%								
As 188.979†	3207.5	2.070	mg/L	0.0133	2.070	mg/L	0.0133	0.64%
QC value within limits for As 188.979 Recovery = 103.52%								
B 208.889†	17824.9	1.966	mg/L	0.0062	1.966	mg/L	0.0062	0.31%
QC value within limits for B 208.889 Recovery = 98.28%								
Ba 233.527†	8761.0	2.042	mg/L	0.0175	2.042	mg/L	0.0175	0.86%
QC value within limits for Ba 233.527 Recovery = 102.09%								
Be 313.107†	525288.2	2.089	mg/L	0.0125	2.089	mg/L	0.0125	0.60%
QC value within limits for Be 313.107 Recovery = 104.45%								
Ca 317.933†	12204.4	2.061	mg/L	0.0047	2.061	mg/L	0.0047	0.23%
QC value within limits for Ca 317.933 Recovery = 103.03%								
Cd 228.802†	73842.4	2.038	mg/L	0.0065	2.038	mg/L	0.0065	0.32%
QC value within limits for Cd 228.802 Recovery = 101.90%								
Co 228.616†	77059.7	2.072	mg/L	0.0068	2.072	mg/L	0.0068	0.33%
QC value within limits for Co 228.616 Recovery = 103.61%								
Cr 267.716†	128131.5	2.079	mg/L	0.0049	2.079	mg/L	0.0049	0.24%
QC value within limits for Cr 267.716 Recovery = 103.95%								
Cu 327.393†	249878.3	2.036	mg/L	0.0015	2.036	mg/L	0.0015	0.08%
QC value within limits for Cu 327.393 Recovery = 101.80%								
Fe 238.204†	9007.6	2.100	mg/L	0.0032	2.100	mg/L	0.0032	0.15%
QC value greater than the upper limit for Fe 238.204 Recovery = 105.02%								

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K 766.490†        3477.1       2.018 mg/L           0.0248       2.018 mg/L           0.0248   1.23%
   QC value within limits for K 766.490  Recovery = 100.91%
Mg 285.213†      20806.7       2.110 mg/L           0.0057       2.110 mg/L           0.0057   0.27%
   QC value greater than the upper limit for Mg 285.213  Recovery = 105.51%
Mn 257.610†      58627.3       2.044 mg/L           0.0043       2.044 mg/L           0.0043   0.21%
   QC value within limits for Mn 257.610  Recovery = 102.18%
Mo 202.031†      39054.1       2.045 mg/L           0.0044       2.045 mg/L           0.0044   0.21%
   QC value within limits for Mo 202.031  Recovery = 102.27%
Na 589.592†      22434.6       2.091 mg/L           0.0076       2.091 mg/L           0.0076   0.36%
   QC value within limits for Na 589.592  Recovery = 104.57%
Ni 231.604†      71408.0       2.080 mg/L           0.0020       2.080 mg/L           0.0020   0.09%
   QC value within limits for Ni 231.604  Recovery = 104.01%
Pb 220.353†      10286.7       2.119 mg/L           0.0140       2.119 mg/L           0.0140   0.66%
   QC value greater than the upper limit for Pb 220.353  Recovery = 105.93%
Sb 206.836†       5053.8       2.084 mg/L           0.0174       2.084 mg/L           0.0174   0.84%
   QC value within limits for Sb 206.836  Recovery = 104.20%
Se 196.026†       4657.9       2.069 mg/L           0.0181       2.069 mg/L           0.0181   0.88%
   QC value within limits for Se 196.026  Recovery = 103.44%
Sn 189.927†      12401.6       2.127 mg/L           0.0146       2.127 mg/L           0.0146   0.68%
   QC value greater than the upper limit for Sn 189.927  Recovery = 106.36%
Ti 337.279†      33666.6       2.026 mg/L           0.0053       2.026 mg/L           0.0053   0.26%
   QC value within limits for Ti 337.279  Recovery = 101.28%
Tl 351.924†       4236.6       1.057 mg/L           0.0079                            0.0079   0.75%
   QC value greater than the upper limit for Tl 351.924  Rec
V 290.880†      162053.3       2.088 mg/L           0.0048                            0.0048   0.23%
   QC value within limits for V 290.880  Recovery = 104.42%
Zn 206.200†      61431.7       2.083 mg/L           0.0030       2.083 mg/L           0.0030   0.14%
   QC value within limits for Zn 206.200  Recovery = 104.13%
Zr 343.823†     437509.9       2.014 mg/L           0.0028       2.014 mg/L           0.0028   0.14%
   QC value within limits for Zr 343.823  Recovery = 100.68%
QC Failed.  Continue with analysis.
User canceled analysis.
```

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Analysis Begun

Start Time: 5/23/2024 3:41:44 PM **Plasma On Time: 5/23/2024 9:36:38 AM**
Originator: Optima8300 **Technique: ICP Continuous**
Spectrometer: Optima 8300 , S/N 078S1703073 **Autosampler: S10**

Sample Information File: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Sample Information\ 0523A24.sifx
Results Data Set: 0523A24
Results Library: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Results\Results.mdb

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Batch ID: OPTIMA 3
Sequence No.: 1 **Autosampler Location: 8**
Sample ID: SEQ-ICV@ 23I0972 **Date Collected: 5/23/2024 3:41:55 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Rinse Time (before sample):

Replicate Data: SEQ-ICV@ 23I0972

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Y radial	152711.5	152711.5	101	%	101	%	3:43:08 PM
1	Al 396.153†	6399.2	6306.4	2.007	mg/L	2.007	mg/L	3:43:08 PM
1	Ba 233.527†	8491.0	8336.0	1.943	mg/L	1.943	mg/L	3:43:08 PM
1	Be 313.107†	511996.5	508567.8	2.022	mg/L	2.022	mg/L	3:43:05 PM
1	Ca 317.933†	12925.2	11952.9	2.018	mg/L	2.018	mg/L	3:43:08 PM
1	Fe 238.204†	8735.1	8760.9	2.043	mg/L	2.043	mg/L	3:43:08 PM
1	K 766.490†	4137.8	3346.4	1.942	mg/L	1.942	mg/L	3:43:08 PM
1	Mg 285.213†	20629.1	20283.9	2.057	mg/L	2.057	mg/L	3:43:08 PM
1	Mn 257.610†	57645.8	57662.4	2.010	mg/L	2.010	mg/L	3:43:08 PM
1	Na 589.592†	22252.2	21929.8	2.044	mg/L	2.044	mg/L	3:43:08 PM
1	Ti 337.279†	33134.5	33088.0	1.991	mg/L	1.991	mg/L	3:43:08 PM
1	Y axial	2759076.2	2759076.2	102	%	102	%	3:43:24 PM

1	As 188.979†	3103.8	3102.0	2.002 mg/L	2.002 mg/L	3:43:44 PM
1	B 208.889†	17546.2	17055.6	1.878 mg/L	1.878 mg/L	3:43:44 PM
1	Cd 228.802†	73822.7	72088.4	1.990 mg/L	1.990 mg/L	3:43:24 PM
1	Co 228.616†	77055.0	75306.1	2.025 mg/L	2.025 mg/L	3:43:24 PM
1	Cr 267.716†	128020.4	125197.3	2.031 mg/L	2.031 mg/L	3:43:24 PM
1	Cu 327.393†	250042.7	244499.7	1.992 mg/L	1.992 mg/L	3:43:24 PM
1	Mo 202.031†	39418.1	38471.2	2.015 mg/L	2.015 mg/L	3:43:24 PM
1	Ni 231.604†	72813.2	70780.1	2.062 mg/L	2.062 mg/L	3:43:24 PM
1	Pb 220.353†	10151.1	9922.0	2.044 mg/L	2.044 mg/L	3:43:44 PM
1	Sb 206.836†	5059.3	4871.7	2.009 mg/L	2.009 mg/L	3:43:44 PM
1	Se 196.026†	4543.4	4465.5	1.983 mg/L	1.983 mg/L	3:43:44 PM
1	Sn 189.927†	12145.3	11941.0	2.048 mg/L	2.048 mg/L	3:43:44 PM
1	Tl 351.924†	4107.1	4063.4	1.014 mg/L	1.014 mg/L	3:43:44 PM
1	V 290.880†	164409.9	158891.3	2.048 mg/L	2.048 mg/L	3:43:24 PM
1	Zn 206.200†	61912.5	60838.8	2.062 mg/L	2.062 mg/L	3:43:24 PM
1	Zr 343.823†	441588.6	431957.4	1.988 mg/L	1.988 mg/L	3:43:24 PM
1	Ag 328.068†	78364.1	76633.3	1.062 mg/L	1.062 mg/L	3:45:03 PM
2	Y radial	153738.9	153738.9	101 %	101 %	3:43:12 PM
2	Al 396.153†	6469.9	6333.6	2.016 mg/L	2.016 mg/L	3:43:12 PM
2	Ba 233.527†	8608.5	8576.9	1.999 mg/L	1.999 mg/L	3:43:12 PM
2	Be 313.107†	509193.1	502403.8	1.998 mg/L	1.998 mg/L	3:43:10 PM
2	Ca 317.933†	13070.3	12010.3	2.028 mg/L	2.028 mg/L	3:43:12 PM
2	Fe 238.204†	8913.6	8879.0	2.070 mg/L	2.070 mg/L	3:43:12 PM
2	K 766.490†	4291.1	3470.2	2.014 mg/L	2.014 mg/L	3:43:12 PM
2	Mg 285.213†	20950.4	20463.9	2.076 mg/L	2.076 mg/L	3:43:12 PM
2	Mn 257.610†	58225.9	57852.2	2.017 mg/L	2.017 mg/L	3:43:12 PM
2	Na 589.592†	22516.9	22043.2	2.055 mg/L	2.055 mg/L	3:43:12 PM
2	Ti 337.279†	33569.6	33297.4	2.003 mg/L	2.003 mg/L	3:43:12 PM
2	Y axial	2718468.8	2718468.8	101 %	101 %	3:43:46 PM
2	As 188.979†	3142.0	3185.3	2.056 mg/L	2.056 mg/L	3:44:06 PM
2	B 208.889†	17824.6	17588.6	1.940 mg/L	1.940 mg/L	3:44:06 PM
2	Cd 228.802†	72615.1	71968.1	1.986 mg/L	1.986 mg/L	3:43:46 PM
2	Co 228.616†	75962.8	75347.7	2.026 mg/L	2.026 mg/L	3:43:46 PM
2	Cr 267.716†	126051.7	125113.3	2.030 mg/L	2.030 mg/L	3:43:46 PM
2	Cu 327.393†	247827.9	245955.0	2.004 mg/L	2.004 mg/L	3:43:46 PM
2	Mo 202.031†	38805.8	38439.2	2.013 mg/L	2.013 mg/L	3:43:46 PM
2	Ni 231.604†	71661.3	70700.4	2.060 mg/L	2.060 mg/L	3:43:46 PM
2	Pb 220.353†	10315.3	10233.5	2.108 mg/L	2.108 mg/L	3:44:06 PM
2	Sb 206.836†	5120.7	5006.6	2.065 mg/L	2.065 mg/L	3:44:06 PM
2	Se 196.026†	4617.1	4605.1	2.045 mg/L	2.045 mg/L	3:44:06 PM
2	Sn 189.927†	12310.3	12282.4	2.107 mg/L	2.107 mg/L	3:44:06 PM
2	Tl 351.924†	4179.3	4195.1	1.047 mg/L	1.047 mg/L	3:44:06 PM
2	V 290.880†	162262.1	159161.4	2.051 mg/L	2.051 mg/L	3:43:46 PM
2	Zn 206.200†	61082.3	60919.3	2.065 mg/L	2.065 mg/L	3:43:46 PM
2	Zr 343.823†	435940.7	432803.0	1.992 mg/L	1.992 mg/L	3:43:46 PM
2	Ag 328.068†	79466.1	78873.4	1.093 mg/L	1.093 mg/L	3:45:05 PM
3	Y radial	154791.9	154791.9	102 %	102 %	3:43:16 PM
3	Al 396.153†	6497.0	6316.7	2.010 mg/L	2.010 mg/L	3:43:16 PM
3	Ba 233.527†	8632.6	8427.3	1.964 mg/L	1.964 mg/L	3:43:16 PM
3	Be 313.107†	520123.0	509696.3	2.027 mg/L	2.027 mg/L	3:43:14 PM
3	Ca 317.933†	13111.3	11962.7	2.020 mg/L	2.020 mg/L	3:43:16 PM
3	Fe 238.204†	8886.4	8792.6	2.051 mg/L	2.051 mg/L	3:43:16 PM
3	K 766.490†	4152.8	3305.9	1.919 mg/L	1.919 mg/L	3:43:16 PM
3	Mg 285.213†	20979.0	20351.3	2.064 mg/L	2.064 mg/L	3:43:16 PM
3	Mn 257.610†	58331.4	57564.8	2.007 mg/L	2.007 mg/L	3:43:16 PM
3	Na 589.592†	22627.4	22000.4	2.051 mg/L	2.051 mg/L	3:43:16 PM
3	Ti 337.279†	33532.0	33035.3	1.988 mg/L	1.988 mg/L	3:43:16 PM
3	Y axial	2774616.0	2774616.0	103 %	103 %	3:44:09 PM
3	As 188.979†	3134.0	3114.3	2.010 mg/L	2.010 mg/L	3:44:29 PM
3	B 208.889†	17858.2	17263.0	1.901 mg/L	1.901 mg/L	3:44:29 PM
3	Cd 228.802†	74781.5	72616.8	2.005 mg/L	2.005 mg/L	3:44:09 PM
3	Co 228.616†	78299.2	76094.6	2.046 mg/L	2.046 mg/L	3:44:09 PM
3	Cr 267.716†	129686.4	126116.8	2.046 mg/L	2.046 mg/L	3:44:09 PM
3	Cu 327.393†	253213.7	246215.0	2.006 mg/L	2.006 mg/L	3:44:09 PM
3	Mo 202.031†	39923.3	38746.8	2.029 mg/L	2.029 mg/L	3:44:09 PM
3	Ni 231.604†	73546.1	71094.2	2.071 mg/L	2.071 mg/L	3:44:09 PM
3	Pb 220.353†	10284.0	9995.7	2.059 mg/L	2.059 mg/L	3:44:29 PM
3	Sb 206.836†	5106.0	4889.4	2.016 mg/L	2.016 mg/L	3:44:29 PM
3	Se 196.026†	4627.8	4522.8	2.009 mg/L	2.009 mg/L	3:44:29 PM
3	Sn 189.927†	12263.0	11989.0	2.057 mg/L	2.057 mg/L	3:44:29 PM

3	Tl 351.924†	4170.2	4102.2	1.024 mg/L	1.024 mg/L	3:44:29 PM
3	V 290.880†	166268.9	159799.3	2.060 mg/L	2.060 mg/L	3:44:09 PM
3	Zn 206.200†	62711.5	61277.0	2.077 mg/L	2.077 mg/L	3:44:09 PM
3	Zr 343.823†	446172.9	433998.3	1.997 mg/L	1.997 mg/L	3:44:09 PM
3	Ag 328.068†	76941.5	74819.5	1.036 mg/L	1.036 mg/L	3:45:07 PM
4	Y radial	157235.2	157235.2	104 %	104 %	3:43:20 PM
4	Al 396.153†	6685.3	6399.5	2.037 mg/L	2.037 mg/L	3:43:20 PM
4	Ba 233.527†	8804.4	8814.2	2.054 mg/L	2.054 mg/L	3:43:20 PM
4	Be 313.107†	530179.6	511477.7	2.034 mg/L	2.034 mg/L	3:43:18 PM
4	Ca 317.933†	13387.7	12029.7	2.031 mg/L	2.031 mg/L	3:43:20 PM
4	Fe 238.204†	9104.2	8867.4	2.068 mg/L	2.068 mg/L	3:43:20 PM
4	K 766.490†	4340.2	3423.4	1.987 mg/L	1.987 mg/L	3:43:20 PM
4	Mg 285.213†	21281.5	20323.7	2.061 mg/L	2.061 mg/L	3:43:20 PM
4	Mn 257.610†	59709.9	58006.3	2.022 mg/L	2.022 mg/L	3:43:20 PM
4	Na 589.592†	23086.4	22098.6	2.060 mg/L	2.060 mg/L	3:43:20 PM
4	Ti 337.279†	34169.2	33139.4	1.994 mg/L	1.994 mg/L	3:43:20 PM
4	Y axial	2705257.2	2705257.2	100 %	100 %	3:44:31 PM
4	As 188.979†	3105.5	3164.0	2.042 mg/L	2.042 mg/L	3:44:52 PM
4	B 208.889†	17756.1	17606.7	1.941 mg/L	1.941 mg/L	3:44:52 PM
4	Cd 228.802†	72353.2	72059.0	1.989 mg/L	1.989 mg/L	3:44:31 PM
4	Co 228.616†	75590.3	75344.4	2.026 mg/L	2.026 mg/L	3:44:31 PM
4	Cr 267.716†	125610.4	125284.3	2.033 mg/L	2.033 mg/L	3:44:31 PM
4	Cu 327.393†	246431.7	245763.7	2.002 mg/L	2.002 mg/L	3:44:31 PM
4	Mo 202.031†	38814.3	38636.0	2.024 mg/L	2.024 mg/L	3:44:31 PM
4	Ni 231.604†	71267.3	70654.8	2.058 mg/L	2.058 mg/L	3:44:31 PM
4	Pb 220.353†	10179.2	10147.7	2.090 mg/L	2.090 mg/L	3:44:52 PM
4	Sb 206.836†	5055.2	4966.0	2.048 mg/L	2.048 mg/L	3:44:52 PM
4	Se 196.026†	4580.1	4590.6	2.039 mg/L	2.039 mg/L	3:44:52 PM
4	Sn 189.927†	12173.6	12205.7	2.094 mg/L	2.094 mg/L	3:44:52 PM
4	Tl 351.924†	4140.3	4176.5	1.042 mg/L	1.042 mg/L	3:44:52 PM
4	V 290.880†	161665.6	159353.2	2.054 mg/L	2.054 mg/L	3:44:31 PM
4	Zn 206.200†	60638.8	60772.9	2.060 mg/L	2.060 mg/L	3:44:31 PM
4	Zr 343.823†	433019.0	432001.5	1.988 mg/L	1.988 mg/L	3:44:31 PM
4	Ag 328.068†	78488.8	78283.4	1.084 mg/L	1.084 mg/L	3:45:09 PM

Mean Data: SEQ-ICV@ 23I0972

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y radial	154619.3	102	%	1.28	102	%	1.28	1.25%
Y axial	2739354.6	101	%	1.22	101	%	1.22	1.20%
Ag 328.068†	77152.4	1.069	mg/L	0.0252	1.069	mg/L	0.0252	2.36%
QC value greater than the upper limit for Ag 328.068 Recovery = 106.87%								
Al 396.153†	6339.0	2.017	mg/L	0.0139	2.017	mg/L	0.0139	0.69%
QC value within limits for Al 396.153 Recovery = 100.87%								
As 188.979†	3141.4	2.028	mg/L	0.0256	2.028	mg/L	0.0256	1.26%
QC value within limits for As 188.979 Recovery = 101.38%								
B 208.889†	17378.5	1.915	mg/L	0.0309	1.915	mg/L	0.0309	1.62%
QC value within limits for B 208.889 Recovery = 95.75%								
Ba 233.527†	8538.6	1.990	mg/L	0.0487	1.990	mg/L	0.0487	2.45%
QC value within limits for Ba 233.527 Recovery = 99.49%								
Be 313.107†	508036.4	2.020	mg/L	0.0157	2.020	mg/L	0.0157	0.78%
QC value within limits for Be 313.107 Recovery = 101.01%								
Ca 317.933†	11988.9	2.024	mg/L	0.0062	2.024	mg/L	0.0062	0.31%
QC value within limits for Ca 317.933 Recovery = 101.21%								
Cd 228.802†	72183.1	1.992	mg/L	0.0084	1.992	mg/L	0.0084	0.42%
QC value within limits for Cd 228.802 Recovery = 99.61%								
Co 228.616†	75523.2	2.031	mg/L	0.0103	2.031	mg/L	0.0103	0.51%
QC value within limits for Co 228.616 Recovery = 101.54%								
Cr 267.716†	125427.9	2.035	mg/L	0.0075	2.035	mg/L	0.0075	0.37%
QC value within limits for Cr 267.716 Recovery = 101.76%								
Cu 327.393†	245608.4	2.001	mg/L	0.0062	2.001	mg/L	0.0062	0.31%
QC value within limits for Cu 327.393 Recovery = 100.06%								
Fe 238.204†	8824.9	2.058	mg/L	0.0132	2.058	mg/L	0.0132	0.64%
QC value within limits for Fe 238.204 Recovery = 102.90%								
K 766.490†	3386.5	1.966	mg/L	0.0430	1.966	mg/L	0.0430	2.19%
QC value within limits for K 766.490 Recovery = 98.28%								
Mg 285.213†	20355.7	2.065	mg/L	0.0078	2.065	mg/L	0.0078	0.38%
QC value within limits for Mg 285.213 Recovery = 103.23%								
Mn 257.610†	57771.4	2.014	mg/L	0.0069	2.014	mg/L	0.0069	0.34%

QC value within limits for Mn 257.610 Recovery = 100.69%
Mo 202.031† 38573.3 2.020 mg/L 0.0076 2.020 mg/L 0.0076 0.37%
QC value within limits for Mo 202.031 Recovery = 101.01%
Na 589.592† 22018.0 2.053 mg/L 0.0066 2.053 mg/L 0.0066 0.32%
QC value within limits for Na 589.592 Recovery = 102.63%
Ni 231.604† 70807.4 2.063 mg/L 0.0058 2.063 mg/L 0.0058 0.28%
QC value within limits for Ni 231.604 Recovery = 103.14%
Pb 220.353† 10074.7 2.075 mg/L 0.0291 2.075 mg/L 0.0291 1.40%
QC value within limits for Pb 220.353 Recovery = 103.75%
Sb 206.836† 4933.4 2.035 mg/L 0.0263 2.035 mg/L 0.0263 1.29%
QC value within limits for Sb 206.836 Recovery = 101.73%
Se 196.026† 4546.0 2.019 mg/L 0.0287 2.019 mg/L 0.0287 1.42%
QC value within limits for Se 196.026 Recovery = 100.95%
Sn 189.927† 12104.5 2.076 mg/L 0.0283 2.076 mg/L 0.0283 1.36%
QC value within limits for Sn 189.927 Recovery = 103.82%
Ti 337.279† 33140.1 1.994 mg/L 0.0068 1.994 mg/L 0.0068 0.34%
QC value within limits for Ti 337.279 Recovery = 99.69%
Tl 351.924† 4134.3 1.032 mg/L 0.0154 1.032 mg/L 0.0154 1.50%
QC value within limits for Tl 351.924 Recovery = 103.16%
V 290.880† 159301.3 2.053 mg/L 0.0050 2.053 mg/L 0.0050 0.24%
QC value within limits for V 290.880 Recovery = 102.66%
Zn 206.200† 60952.0 2.066 mg/L 0.0076 2.066 mg/L 0.0076 0.37%
QC value within limits for Zn 206.200 Recovery = 103.30%
Zr 343.823† 432690.1 1.991 mg/L 0.0044 1.991 mg/L 0.0044 0.22%
QC value within limits for Zr 343.823 Recovery = 99.57%
QC Failed. Continue with analysis.
User canceled analysis.

NO 200.7 AG; OK FOR 6010 - HNN 052424

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Analysis Begun

Start Time: 5/23/2024 3:51:15 PM **Plasma On Time: 5/23/2024 9:36:38 AM**
Originator: Optima8300 **Technique: ICP Continuous**
Spectrometer: Optima 8300 , S/N 078S1703073 **Autosampler: S10**

Sample Information File: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Sample Information\ 0523A24.sifx
Results Data Set: 0523A24
Results Library: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Results\Results.mdb

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Method Loaded
Method Name: ICP3 012424_IEC* **Method Last Saved: 5/23/2024 3:31:14 PM**
IEC File: 011224.iec **MSF File:**
Method Description: Soils and Waters

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Al 396.153	Lin Thru 0	Peak Area	Radial	Y radial	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Y axial	Yes
B 208.889	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ba 233.527	Lin Thru 0	Peak Area	Radial	Y axial	Yes
Be 313.107	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Cd 228.802	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cu 327.393	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Fe 238.204	Lin Thru 0	Peak Area	Radial	Y radial	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mg 285.213	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mn 257.610	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Na 589.592	Lin Thru 0	Peak Area	Radial	Y radial	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ti 337.279	Lin Thru 0	Peak Area	Radial	Y radial	No

Tl 351.924	Lin Thru 0	Peak Area	Axial	Y axial	Yes
V 290.880	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Y radial	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Y axial	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 206.200	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Zr 343.823	Lin Thru 0	Peak Area	Axial	Y axial	No

Batch ID: OPTIMA 3
Sequence No.: 2 **Autosampler Location: 1**
Sample ID: SEQ-ICB@ 23J0970 **Date Collected: 5/23/2024 3:51:26 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Rinse Time (before sample):

Mean Data: SEQ-ICB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	149301.8	98.4	%	1.15	98.4	%	1.15	1.17%
Y axial	2700675.9	100	%	0.52	100	%	0.52	0.52%
Ag 328.068†	213.3	0.0030	mg/L	0.00039	0.0030	mg/L	0.00039	13.05%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	-28.2	-0.0094	mg/L	0.01047	-0.0094	mg/L	0.01047	111.46%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	3.8	0.0024	mg/L	0.00246	0.0024	mg/L	0.00246	100.37%
QC value within limits for As 188.979 Recovery = Not calculated								
B 208.889†	163.4	0.0189	mg/L	0.00105	0.0189	mg/L	0.00105	5.53%
QC value within limits for B 208.889 Recovery = Not calculated								
Ba 233.527†	4.6	0.0011	mg/L	0.00059	0.0011	mg/L	0.00059	54.56%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-20.9	-0.0001	mg/L	0.00001	-0.0001	mg/L	0.00001	13.48%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	24.7	0.0042	mg/L	0.00230	0.0042	mg/L	0.00230	55.32%
QC value within limits for Ca 317.933 Recovery = Not calculated								
Cd 228.802†	-5.9	-0.0002	mg/L	0.00007	-0.0002	mg/L	0.00007	33.98%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	5.8	0.0002	mg/L	0.00003	0.0002	mg/L	0.00003	18.16%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	19.4	0.0003	mg/L	0.00012	0.0003	mg/L	0.00012	39.34%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	313.8	0.0026	mg/L	0.00059	0.0026	mg/L	0.00059	23.01%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 238.204†	-1.6	-0.0004	mg/L	0.00188	-0.0004	mg/L	0.00188	523.88%
QC value within limits for Fe 238.204 Recovery = Not calculated								
K 766.490†	152.2	0.0883	mg/L	0.08748	0.0883	mg/L	0.08748	99.02%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213†	11.1	0.0011	mg/L	0.00026	0.0011	mg/L	0.00026	22.99%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610†	1.6	0.0001	mg/L	0.00024	0.0001	mg/L	0.00024	433.73%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	-7.8	-0.0004	mg/L	0.00021	-0.0004	mg/L	0.00021	51.37%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592†	38.2	0.0036	mg/L	0.00324	0.0036	mg/L	0.00324	90.89%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604†	-6.2	-0.0002	mg/L	0.00015	-0.0002	mg/L	0.00015	83.95%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	14.0	0.0029	mg/L	0.00117	0.0029	mg/L	0.00117	40.60%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	2.9	0.0012	mg/L	0.00116	0.0012	mg/L	0.00116	96.99%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	0.9	0.0004	mg/L	0.00214	0.0004	mg/L	0.00214	525.22%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	5.9	0.0010	mg/L	0.00087	0.0010	mg/L	0.00087	85.45%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 337.279†	-12.2	-0.0007	mg/L	0.00271	-0.0007	mg/L	0.00271	369.20%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 351.924†	20.7	0.0051	mg/L	0.01262	0.0051	mg/L	0.01262	245.66%
QC value within limits for Tl 351.924 Recovery = Not calculated								

V 290.880†	-5.9	-0.0001 mg/L	0.00014	-0.0001 mg/L	0.00014	167.83%
QC value within limits for V 290.880 Recovery = Not calculated						
Zn 206.200†	29.7	0.0010 mg/L	0.00011	0.0010 mg/L	0.00011	10.94%
QC value within limits for Zn 206.200 Recovery = Not calculated						
Zr 343.823†	18.0	0.0001 mg/L	0.00002	0.0001 mg/L	0.00002	18.57%

All analyte(s) passed QC.

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Batch ID: OPTIMA 3
Sequence No.: 3 **Autosampler Location: 10**
Sample ID: SEQ-LCV@ 23I0974 **Date Collected: 5/23/2024 3:57:23 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Rinse Time (before sample): 110

Mean Data: SEQ-LCV@ 23I0974

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	153489.5	101	%	0.52	101	%	0.52	0.51%
Y axial	2676130.8	99.1	%	0.66	99.1	%	0.66	0.66%
Ag 328.068†	977.2	0.0135	mg/L	0.00070	0.0135	mg/L	0.00070	5.16%
QC value greater than the upper limit for Ag 328.068 Recovery = 135.37%								
Al 396.153†	146.2	0.0461	mg/L	0.01553	0.0461	mg/L	0.01553	33.69%
QC value within limits for Al 396.153 Recovery = 92.22%								
As 188.979†	13.9	0.0086	mg/L	0.00149	0.0086	mg/L	0.00149	17.28%
QC value within limits for As 188.979 Recovery = 86.48%								
B 208.889†	1002.2	0.1135	mg/L	0.00097	0.1135	mg/L	0.00097	0.86%
QC value within limits for B 208.889 Recovery = 113.48%								
Ba 233.527†	226.7	0.0529	mg/L	0.00075	0.0529	mg/L	0.00075	1.42%
QC value within limits for Ba 233.527 Recovery = 105.71%								
Be 313.107†	1112.3	0.0044	mg/L	0.00003	0.0044	mg/L	0.00003	0.79%
QC value within limits for Be 313.107 Recovery = 109.48%								
Ca 317.933†	3026.2	0.5111	mg/L	0.00529	0.5111	mg/L	0.00529	1.03%
QC value within limits for Ca 317.933 Recovery = 102.21%								
Cd 228.802†	162.5	0.0045	mg/L	0.00013	0.0045	mg/L	0.00013	2.91%
QC value within limits for Cd 228.802 Recovery = 111.29%								
Co 228.616†	410.9	0.0112	mg/L	0.00016	0.0112	mg/L	0.00016	1.46%
QC value within limits for Co 228.616 Recovery = 111.51%								
Cr 267.716†	679.5	0.0110	mg/L	0.00011	0.0110	mg/L	0.00011	1.03%
QC value within limits for Cr 267.716 Recovery = 110.26%								
Cu 327.393†	1602.3	0.0131	mg/L	0.00031	0.0131	mg/L	0.00031	2.40%
QC value greater than the upper limit for Cu 327.393 Recovery = 130.68%								
Fe 238.204†	222.6	0.0516	mg/L	0.00221	0.0516	mg/L	0.00221	4.28%
QC value within limits for Fe 238.204 Recovery = 103.10%								
K 766.490†	3533.6	2.051	mg/L	0.0229	2.051	mg/L	0.0229	1.11%
QC value within limits for K 766.490 Recovery = 102.57%								
Mg 285.213†	521.1	0.0527	mg/L	0.00114	0.0527	mg/L	0.00114	2.16%
QC value within limits for Mg 285.213 Recovery = 105.38%								
Mn 257.610†	325.0	0.0113	mg/L	0.00002	0.0113	mg/L	0.00002	0.16%
QC value within limits for Mn 257.610 Recovery = 113.28%								
Mo 202.031†	1025.6	0.0537	mg/L	0.00012	0.0537	mg/L	0.00012	0.22%
QC value within limits for Mo 202.031 Recovery = 107.40%								
Na 589.592†	22322.6	2.081	mg/L	0.0090	2.081	mg/L	0.0090	0.43%
QC value within limits for Na 589.592 Recovery = 104.04%								
Ni 231.604†	384.3	0.0112	mg/L	0.00026	0.0112	mg/L	0.00026	2.36%
QC value within limits for Ni 231.604 Recovery = 112.01%								
Pb 220.353†	57.7	0.0119	mg/L	0.00111	0.0119	mg/L	0.00111	9.31%
QC value within limits for Pb 220.353 Recovery = 119.30%								
Sb 206.836†	118.7	0.0501	mg/L	0.00468	0.0501	mg/L	0.00468	9.34%
QC value within limits for Sb 206.836 Recovery = 100.24%								
Se 196.026†	120.0	0.0533	mg/L	0.00562	0.0533	mg/L	0.00562	10.54%
QC value within limits for Se 196.026 Recovery = 106.68%								
Sn 189.927†	618.3	0.1060	mg/L	0.00044	0.1060	mg/L	0.00044	0.41%
QC value within limits for Sn 189.927 Recovery = 105.98%								
Ti 337.279†	337.5	0.0203	mg/L	0.00016	0.0203	mg/L	0.00016	0.78%
QC value within limits for Ti 337.279 Recovery = 101.54%								
Tl 351.924†	227.8	0.0565	mg/L	0.00862	0.0565	mg/L	0.00862	15.25%
QC value within limits for Tl 351.924 Recovery = 113.10%								

V 290.880†	827.4	0.0117 mg/L	0.00026	0.0117 mg/L	0.00026	2.22%
QC value within limits for V 290.880 Recovery = 116.66%						
Zn 206.200†	376.8	0.0126 mg/L	0.00028	0.0126 mg/L	0.00028	2.22%
QC value greater than the upper limit for Zn 206.200 Recovery = 125.75%						
Zr 343.823†	163.5	0.0008 mg/L	0.00015	0.0008 mg/L	0.00015	19.68%

QC Failed. Continue with analysis.

NO AG, CU, ZN - HNN 052424

Batch ID: OPTIMA 3
Sequence No.: 4
Sample ID: SEQ-CCV@ 23J0975
Analyst:
Initial Sample Wt:
Dilution:
Rinse Time (before sample): 220

Autosampler Location: 5
Date Collected: 5/23/2024 4:05:09 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	155275.8	102	%	1.10	102	%	1.10	1.07%
Y axial	2669611.7	98.9	%	2.46	98.9	%	2.46	2.49%
Ag 328.068†	191022.9	2.646	mg/L	0.0708	2.646	mg/L	0.0708	2.67%
QC value within limits for Ag 328.068 Recovery = 105.84%								
Al 396.153†	30279.2	9.848	mg/L	0.0333	9.848	mg/L	0.0333	0.34%
QC value within limits for Al 396.153 Recovery = 98.48%								
As 188.979†	7950.6	5.131	mg/L	0.1477	5.131	mg/L	0.1477	2.88%
QC value within limits for As 188.979 Recovery = 102.62%								
B 208.889†	44437.8	4.900	mg/L	0.1536	4.900	mg/L	0.1536	3.13%
QC value within limits for B 208.889 Recovery = 98.01%								
Ba 233.527†	22026.1	5.133	mg/L	0.1972	5.133	mg/L	0.1972	3.84%
QC value within limits for Ba 233.527 Recovery = 102.66%								
Be 313.107†	1240001.4	4.930	mg/L	0.0352	4.930	mg/L	0.0352	0.71%
QC value within limits for Be 313.107 Recovery = 98.61%								
Ca 317.933†	59054.6	9.972	mg/L	0.0649	9.972	mg/L	0.0649	0.65%
QC value within limits for Ca 317.933 Recovery = 99.72%								
Cd 228.802†	180709.4	4.987	mg/L	0.0108	4.987	mg/L	0.0108	0.22%
QC value within limits for Cd 228.802 Recovery = 99.74%								
Co 228.616†	187624.9	5.045	mg/L	0.0071	5.045	mg/L	0.0071	0.14%
QC value within limits for Co 228.616 Recovery = 100.91%								
Cr 267.716†	309491.2	5.022	mg/L	0.0065	5.022	mg/L	0.0065	0.13%
QC value within limits for Cr 267.716 Recovery = 100.44%								
Cu 327.393†	612771.0	4.993	mg/L	0.0072	4.993	mg/L	0.0072	0.14%
QC value within limits for Cu 327.393 Recovery = 99.86%								
Fe 238.204†	21176.7	4.940	mg/L	0.0083	4.940	mg/L	0.0083	0.17%
QC value within limits for Fe 238.204 Recovery = 98.79%								
K 766.490†	16946.9	9.837	mg/L	0.0058	9.837	mg/L	0.0058	0.06%
QC value within limits for K 766.490 Recovery = 98.37%								
Mg 285.213†	98726.5	10.01	mg/L	0.005	10.01	mg/L	0.005	0.05%
QC value within limits for Mg 285.213 Recovery = 100.05%								
Mn 257.610†	145058.0	5.056	mg/L	0.0243	5.056	mg/L	0.0243	0.48%
QC value within limits for Mn 257.610 Recovery = 101.13%								
Mo 202.031†	97191.2	5.090	mg/L	0.0032	5.090	mg/L	0.0032	0.06%
QC value within limits for Mo 202.031 Recovery = 101.80%								
Na 589.592†	107733.0	10.04	mg/L	0.017	10.04	mg/L	0.017	0.17%
QC value within limits for Na 589.592 Recovery = 100.43%								
Ni 231.604†	175093.2	5.101	mg/L	0.0243	5.101	mg/L	0.0243	0.48%
QC value within limits for Ni 231.604 Recovery = 102.02%								
Pb 220.353†	25301.0	5.211	mg/L	0.1418	5.211	mg/L	0.1418	2.72%
QC value within limits for Pb 220.353 Recovery = 104.23%								
Sb 206.836†	12580.5	5.189	mg/L	0.1673	5.189	mg/L	0.1673	3.22%
QC value within limits for Sb 206.836 Recovery = 103.78%								
Se 196.026†	11557.3	5.133	mg/L	0.1612	5.133	mg/L	0.1612	3.14%
QC value within limits for Se 196.026 Recovery = 102.66%								
Sn 189.927†	30366.6	5.218	mg/L	0.1530	5.218	mg/L	0.1530	2.93%
QC value within limits for Sn 189.927 Recovery = 104.36%								
Ti 337.279†	83405.4	5.018	mg/L	0.0103	5.018	mg/L	0.0103	0.20%
QC value within limits for Ti 337.279 Recovery = 100.36%								
Tl 351.924†	10435.3	2.604	mg/L	0.0811	2.604	mg/L	0.0811	3.11%
QC value within limits for Tl 351.924 Recovery = 104.17%								

V 290.880† 399999.2 5.155 mg/L 0.0030 5.155 mg/L 0.0030 0.06%
QC value within limits for V 290.880 Recovery = 103.10%
Zn 206.200† 151655.3 5.140 mg/L 0.0384 5.140 mg/L 0.0384 0.75%
QC value within limits for Zn 206.200 Recovery = 102.80%
Zr 343.823† 1102514.9 5.074 mg/L 0.0056 5.074 mg/L 0.0056 0.11%
All analyte(s) passed QC.

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Batch ID: OPTIMA 3
Sequence No.: 5 **Autosampler Location: 11**
Sample ID: SEQ-IFA@ 23I0975 **Date Collected: 5/23/2024 4:11:05 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Rinse Time (before sample): 220

Mean Data: SEQ-IFA@ 23I0975

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	148821.5	98.1	%	0.89	98.1	%	0.89	0.91%
Y axial	2517474.8	93.2	%	2.10	93.2	%	2.10	2.25%
Ag 328.068†	287.9	0.0069	mg/L	0.00062	0.0069	mg/L	0.00062	8.98%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	764826.8	254.7	mg/L	4.47	254.7	mg/L	4.47	1.76%
QC value within limits for Al 396.153 Recovery = 101.89%								
As 188.979†	-25.5	0.0008	mg/L	0.00063	0.0008	mg/L	0.00063	74.09%
QC value within limits for As 188.979 Recovery = Not calculated								
B 208.889†	132.0	0.0161	mg/L	0.00079	0.0161	mg/L	0.00079	4.90%
QC value within limits for B 208.889 Recovery = Not calculated								
Ba 233.527†	30.6	0.0028	mg/L	0.00165	0.0028	mg/L	0.00165	59.34%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	80.2	0.0002	mg/L	0.00004	0.0002	mg/L	0.00004	15.78%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	1459921.1	246.5	mg/L	4.75	246.5	mg/L	4.75	1.93%
QC value within limits for Ca 317.933 Recovery = 98.61%								
Cd 228.802†	2.8	0.0003	mg/L	0.00022	0.0003	mg/L	0.00022	80.00%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	40.4	0.0010	mg/L	0.00035	0.0010	mg/L	0.00035	33.46%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-298.6	-0.0010	mg/L	0.00036	-0.0010	mg/L	0.00036	34.92%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	194.1	0.0046	mg/L	0.00067	0.0046	mg/L	0.00067	14.43%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 238.204†	425260.0	98.29	mg/L	2.026	98.29	mg/L	2.026	2.06%
QC value within limits for Fe 238.204 Recovery = 98.29%								
K 766.490†	51.6	0.0127	mg/L	0.06024	0.0127	mg/L	0.06024	476.18%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213†	2369062.0	240.0	mg/L	4.45	240.0	mg/L	4.45	1.85%
QC value within limits for Mg 285.213 Recovery = 95.99%								
Mn 257.610†	157.6	0.0072	mg/L	0.00070	0.0072	mg/L	0.00070	9.70%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	-334.0	-0.0155	mg/L	0.00067	-0.0155	mg/L	0.00067	4.34%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592†	478.6	0.0446	mg/L	0.00927	0.0446	mg/L	0.00927	20.78%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604†	39.1	0.0011	mg/L	0.00058	0.0011	mg/L	0.00058	50.86%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-79.5	0.0007	mg/L	0.00137	0.0007	mg/L	0.00137	190.20%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-6.3	-0.0101	mg/L	0.00837	-0.0101	mg/L	0.00837	83.23%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-263.9	0.0094	mg/L	0.00467	0.0094	mg/L	0.00467	49.67%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	-2981.7	-0.0500	mg/L	0.00810	-0.0500	mg/L	0.00810	16.20%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 337.279†	3.0	0.0002	mg/L	0.00030	0.0002	mg/L	0.00030	165.85%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 351.924†	5.2	0.0126	mg/L	0.00333	0.0126	mg/L	0.00333	26.35%
QC value within limits for Tl 351.924 Recovery = Not calculated								

V 290.880† 1512.7 -0.0004 mg/L 0.00213 -0.0004 mg/L 0.00213 488.20%
QC value within limits for V 290.880 Recovery = Not calculated
Zn 206.200† -29.0 0.0027 mg/L 0.00041 0.0027 mg/L 0.00041 14.84%
QC value within limits for Zn 206.200 Recovery = Not calculated
Zr 343.823† 729.8 0.0034 mg/L 0.00004 0.0034 mg/L 0.00004 1.09%
All analyte(s) passed QC.

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Batch ID: OPTIMA 3
Sequence No.: 6 **Autosampler Location: 12**
Sample ID: SEQ-IFB@ 23I0976 **Date Collected: 5/23/2024 4:17:08 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Rinse Time (before sample): 110

Mean Data: SEQ-IFB@ 23I0976

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	150823.2	99.4	%	1.57	99.4	%	1.57	1.58%
Y axial	2488270.3	92.2	%	1.02	92.2	%	1.02	1.10%
Ag 328.068†	31270.1	0.4361	mg/L	0.00475	0.4361	mg/L	0.00475	1.09%
QC value within limits for Ag 328.068 Recovery = 109.02%								
Al 396.153†	769935.8	256.4	mg/L	0.41	256.4	mg/L	0.41	0.16%
QC value within limits for Al 396.153 Recovery = 102.57%								
As 188.979†	272.0	0.1986	mg/L	0.00402	0.1986	mg/L	0.00402	2.02%
QC value within limits for As 188.979 Recovery = 99.32%								
B 208.889†	99.6	0.0125	mg/L	0.00006	0.0125	mg/L	0.00006	0.50%
QC value within limits for B 208.889 Recovery = Not calculated								
Ba 233.527†	4453.2	1.033	mg/L	0.0185	1.033	mg/L	0.0185	1.79%
QC value within limits for Ba 233.527 Recovery = 103.35%								
Be 313.107†	261058.2	1.038	mg/L	0.0046	1.038	mg/L	0.0046	0.45%
QC value within limits for Be 313.107 Recovery = 103.84%								
Ca 317.933†	1479793.7	249.9	mg/L	0.88	249.9	mg/L	0.88	0.35%
QC value within limits for Ca 317.933 Recovery = 99.95%								
Cd 228.802†	74543.3	2.077	mg/L	0.0070	2.077	mg/L	0.0070	0.34%
QC value within limits for Cd 228.802 Recovery = 103.84%								
Co 228.616†	35168.3	0.9446	mg/L	0.00972	0.9446	mg/L	0.00972	1.03%
QC value within limits for Co 228.616 Recovery = 94.46%								
Cr 267.716†	61622.1	1.004	mg/L	0.0036	1.004	mg/L	0.0036	0.36%
QC value within limits for Cr 267.716 Recovery = 100.37%								
Cu 327.393†	129094.5	1.053	mg/L	0.0010	1.053	mg/L	0.0010	0.09%
QC value within limits for Cu 327.393 Recovery = 105.32%								
Fe 238.204†	427100.9	98.72	mg/L	0.432	98.72	mg/L	0.432	0.44%
QC value within limits for Fe 238.204 Recovery = 98.72%								
K 766.490†	88.2	0.0338	mg/L	0.08113	0.0338	mg/L	0.08113	239.86%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213†	2391105.8	242.2	mg/L	0.36	242.2	mg/L	0.36	0.15%
QC value within limits for Mg 285.213 Recovery = 96.88%								
Mn 257.610†	28203.4	0.9849	mg/L	0.02451	0.9849	mg/L	0.02451	2.49%
QC value within limits for Mn 257.610 Recovery = 98.49%								
Mo 202.031†	-365.1	-0.0171	mg/L	0.00026	-0.0171	mg/L	0.00026	1.55%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592†	512.6	0.0478	mg/L	0.01161	0.0478	mg/L	0.01161	24.31%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604†	64693.9	1.886	mg/L	0.0044	1.886	mg/L	0.0044	0.24%
QC value within limits for Ni 231.604 Recovery = 94.28%								
Pb 220.353†	386.8	0.0967	mg/L	0.00250	0.0967	mg/L	0.00250	2.59%
QC value within limits for Pb 220.353 Recovery = 96.69%								
Sb 206.836†	2905.6	1.168	mg/L	0.0114	1.168	mg/L	0.0114	0.98%
QC value within limits for Sb 206.836 Recovery = 97.36%								
Se 196.026†	997.2	0.5685	mg/L	0.00492	0.5685	mg/L	0.00492	0.86%
QC value within limits for Se 196.026 Recovery = 113.70%								
Sn 189.927†	-3045.8	-0.0567	mg/L	0.00924	-0.0567	mg/L	0.00924	16.29%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 337.279†	11.2	0.0007	mg/L	0.00192	0.0007	mg/L	0.00192	284.43%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 351.924†	931.2	0.2446	mg/L	0.00044	0.2446	mg/L	0.00044	0.18%
QC value greater than the upper limit for Tl 351.924 Recovery = 122.30%								

V 290.880† 83647.5 1.034 mg/L 0.0035 1.034 mg/L 0.0035 0.34%
QC value within limits for V 290.880 Recovery = 103.37%
Zn 206.200† 57524.2 1.945 mg/L 0.0101 1.945 mg/L 0.0101 0.52%
QC value within limits for Zn 206.200 Recovery = 97.23%
Zr 343.823† 809.0 0.0037 mg/L 0.00012 0.0037 mg/L 0.00012 3.25%
QC Failed. Continue with analysis.
User canceled analysis.

NO TL - HNN 052424

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Analysis Begun

Start Time: 5/23/2024 4:22:15 PM **Plasma On Time: 5/23/2024 9:36:38 AM**
Originator: Optima8300 **Technique: ICP Continuous**
Spectrometer: Optima 8300 , S/N 078S1703073 **Autosampler: S10**

Sample Information File: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Sample Information\ 0523A24.sifx
Results Data Set: 0523A24
Results Library: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Results\Results.mdb

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Batch ID: OPTIMA 3
Sequence No.: 8 **Autosampler Location: 37**
Sample ID: SEQ-HCV1@100 **Date Collected: 5/23/2024 4:22:25 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Rinse Time (before sample):

Mean Data: SEQ-HCV1@100

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	152151.8	100	%	1.16	100	%	1.16	1.16%
Y axial	2606860.2	96.5	%	1.53	96.5	%	1.53	1.58%
Ag 328.068†	196.4	0.0043	mg/L	0.00075	0.0043	mg/L	0.00075	17.71%
Al 396.153†	305427.4	101.8	mg/L	0.20	101.8	mg/L	0.20	0.20%
QC value within limits for Al 396.153 Recovery = 101.79%								
As 188.979†	150559.2	97.88	mg/L	0.228	97.88	mg/L	0.228	0.23%
QC value within limits for As 188.979 Recovery = 97.88%								
B 208.889†	-56.7	-0.0026	mg/L	0.00103	-0.0026	mg/L	0.00103	39.44%
Ba 233.527†	441911.8	103.0	mg/L	2.81	103.0	mg/L	2.81	2.73%
QC value within limits for Ba 233.527 Recovery = 102.99%								
Be 313.107†	23882262.6	94.97	mg/L	1.531	94.97	mg/L	1.531	1.61%
QC value within limits for Be 313.107 Recovery = 94.97%								
Ca 317.933†	617.1	0.0760	mg/L	0.01226	0.0760	mg/L	0.01226	16.13%
Cd 228.802†	2976119.1	82.02	mg/L	0.409	82.02	mg/L	0.409	0.50%
QC value less than the lower limit for Cd 228.802 Recovery = 82.02%								
Co 228.616†	3629717.3	97.57	mg/L	0.215	97.57	mg/L	0.215	0.22%
QC value within limits for Co 228.616 Recovery = 97.57%								
Cr 267.716†	5983129.7	97.08	mg/L	1.150	97.08	mg/L	1.150	1.18%
QC value within limits for Cr 267.716 Recovery = 97.08%								
Cu 327.393†	12984200.3	105.6	mg/L	1.08	105.6	mg/L	1.08	1.02%
QC value within limits for Cu 327.393 Recovery = 105.62%								
Fe 238.204†	423460.1	98.75	mg/L	0.259	98.75	mg/L	0.259	0.26%
QC value within limits for Fe 238.204 Recovery = 98.75%								
K 766.490†	43.1	0.0078	mg/L	0.03099	0.0078	mg/L	0.03099	397.88%
Mg 285.213†	-1752.5	-0.0137	mg/L	0.00878	-0.0137	mg/L	0.00878	64.32%
Mn 257.610†	2859429.6	99.68	mg/L	0.269	99.68	mg/L	0.269	0.27%
QC value within limits for Mn 257.610 Recovery = 99.68%								
Mo 202.031†	-1557.6	-0.0633	mg/L	0.00034	-0.0633	mg/L	0.00034	0.54%
Na 589.592†	337.4	0.0314	mg/L	0.00227	0.0314	mg/L	0.00227	7.21%
Ni 231.604†	3351660.0	97.60	mg/L	1.354	97.60	mg/L	1.354	1.39%
QC value within limits for Ni 231.604 Recovery = 97.60%								
Pb 220.353†	492190.1	101.2	mg/L	0.08	101.2	mg/L	0.08	0.08%
QC value within limits for Pb 220.353 Recovery = 101.22%								
Sb 206.836†	4012.8	-0.0901	mg/L	0.03446	-0.0901	mg/L	0.03446	38.25%
Se 196.026†	227921.1	101.2	mg/L	0.10	101.2	mg/L	0.10	0.10%
QC value within limits for Se 196.026 Recovery = 101.23%								
Sn 189.927†	-21.1	-0.0039	mg/L	0.00272	-0.0039	mg/L	0.00272	68.93%

Ti 337.279†	-133.2	-0.0080	mg/L	0.00108	-0.0080	mg/L	0.00108 13.49%
Tl 351.924†	450727.9	111.5	mg/L	0.28	111.5	mg/L	0.28 0.25%
QC value greater than the upper limit for Tl 351.924 Recovery = 111.54%							
V 290.880†	8205780.8	103.3	mg/L	1.20	103.3	mg/L	1.20 1.16%
QC value within limits for V 290.880 Recovery = 103.31%							
Zn 206.200†	2830654.3	95.98	mg/L	0.115	95.98	mg/L	0.115 0.12%
QC value within limits for Zn 206.200 Recovery = 95.98%							
Zr 343.823†	-797.1	-0.0037	mg/L	0.00039	-0.0037	mg/L	0.00039 10.65%

QC Failed. Continue with analysis.

CD, TL FAILED HCV1 - HNN 052424

Batch ID: OPTIMA 3
Sequence No.: 9
Sample ID: SEQ-HCV2@500/100
Analyst:
Initial Sample Wt:
Dilution:
Rinse Time (before sample): 220

Autosampler Location: 36
Date Collected: 5/23/2024 4:29:36 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-HCV2@500/100

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	139384.7	91.9	%	2.20	91.9	%	2.20	2.40%
Y axial	2293089.3	84.9	%	1.86	84.9	%	1.86	2.19%
Ag 328.068†	-1320.9	-0.0044	mg/L	0.00030	-0.0044	mg/L	0.00030	6.65%
Al 396.153†	1602739.1	533.8	mg/L	5.85	533.8	mg/L	5.85	1.09%
QC value within limits for Al 396.153 Recovery = 106.76%								
As 188.979†	-122.5	-0.0292	mg/L	0.01524	-0.0292	mg/L	0.01524	52.21%
B 208.889†	805356.3	93.29	mg/L	0.215	93.29	mg/L	0.215	0.23%
Ba 233.527†	73.2	-0.0034	mg/L	0.00097	-0.0034	mg/L	0.00097	28.23%
Be 313.107†	418.8	0.0015	mg/L	0.00020	0.0015	mg/L	0.00020	13.45%
Ca 317.933†	2925920.5	494.0	mg/L	5.00	494.0	mg/L	5.00	1.01%
QC value within limits for Ca 317.933 Recovery = 98.80%								
Cd 228.802†	147.3	0.0051	mg/L	0.00017	0.0051	mg/L	0.00017	3.40%
Co 228.616†	218.4	0.0057	mg/L	0.00038	0.0057	mg/L	0.00038	6.55%
Cr 267.716†	-1084.9	0.0004	mg/L	0.00102	0.0004	mg/L	0.00102	250.81%
Cu 327.393†	16097.9	0.1453	mg/L	0.00754	0.1453	mg/L	0.00754	5.19%
Fe 238.204†	2008978.5	464.4	mg/L	3.88	464.4	mg/L	3.88	0.84%
QC value within limits for Fe 238.204 Recovery = 92.87%								
K 766.490†	379304.9	220.1	mg/L	1.88	220.1	mg/L	1.88	0.85%
QC value greater than the upper limit for K 766.490 Recovery = 110.06%								
Mg 285.213†	1993902.3	202.2	mg/L	2.19	202.2	mg/L	2.19	1.08%
QC value within limits for Mg 285.213 Recovery = 101.10%								
Mn 257.610†	110.1	0.0121	mg/L	0.00063	0.0121	mg/L	0.00063	5.24%
Mo 202.031†	-1267.4	-0.0389	mg/L	0.00172	-0.0389	mg/L	0.00172	4.41%
Na 589.592†	5593847.4	521.5	mg/L	10.05	521.5	mg/L	10.05	1.93%
QC value within limits for Na 589.592 Recovery = 104.29%								
Ni 231.604†	60.4	0.0018	mg/L	0.00031	0.0018	mg/L	0.00031	17.82%
Pb 220.353†	-98.5	0.0030	mg/L	0.00508	0.0030	mg/L	0.00508	169.21%
Sb 206.836†	24.2	-0.0054	mg/L	0.00734	-0.0054	mg/L	0.00734	136.63%
Se 196.026†	-1268.8	0.0095	mg/L	0.02560	0.0095	mg/L	0.02560	268.42%
Sn 189.927†	-3061.6	-0.1260	mg/L	0.01312	-0.1260	mg/L	0.01312	10.41%
Ti 337.279†	-3.2	-0.0002	mg/L	0.00051	-0.0002	mg/L	0.00051	261.59%
Tl 351.924†	-129.1	0.0907	mg/L	0.00295	0.0907	mg/L	0.00295	3.26%
V 290.880†	3968.1	0.0054	mg/L	0.00134	0.0054	mg/L	0.00134	24.77%
Zn 206.200†	1196.0	-0.0189	mg/L	0.00174	-0.0189	mg/L	0.00174	9.25%
Zr 343.823†	3492.8	0.0161	mg/L	0.00036	0.0161	mg/L	0.00036	2.25%

QC Failed. Continue with analysis.
User canceled analysis.

K FAILED HCV2 - HNN 052424

Analysis Begun

Start Time: 5/23/2024 4:37:25 PM
Originator: Optima8300
Spectrometer: Optima 8300 , S/N 078S1703073

Plasma On Time: 5/23/2024 9:36:38 AM
Technique: ICP Continuous
Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Sample Information\ 0523A24.sifx

Results Data Set: 0523A24
Results Library: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Results\Results.mdb

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Batch ID: OPTIMA 3
Sequence No.: 11 **Autosampler Location: 7**
Sample ID: RINSE **Date Collected: 5/23/2024 4:37:35 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Rinse Time (before sample):

Mean Data: RINSE

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	161836.8	107	%	7.46	107	%	7.46	6.99%
Y axial	3327432.7	123	%	6.00	123	%	6.00	4.87%
Ag 328.068†	-40.2	-0.0006	mg/L	0.00043	-0.0006	mg/L	0.00043	76.97%
Al 396.153†	-36.9	-0.0123	mg/L	0.00640	-0.0123	mg/L	0.00640	52.18%
As 188.979†	30.0	0.0193	mg/L	0.00457	0.0193	mg/L	0.00457	23.69%
B 208.889†	2108.1	0.2442	mg/L	0.01599	0.2442	mg/L	0.01599	6.55%
Ba 233.527†	19.7	0.0046	mg/L	0.00035	0.0046	mg/L	0.00035	7.53%
Be 313.107†	-199.3	-0.0007	mg/L	0.00004	-0.0007	mg/L	0.00004	5.09%
Ca 317.933†	155.0	0.0262	mg/L	0.01099	0.0262	mg/L	0.01099	41.99%
Cd 228.802†	-60.0	-0.0019	mg/L	0.00018	-0.0019	mg/L	0.00018	9.60%
Co 228.616†	-91.4	-0.0025	mg/L	0.00003	-0.0025	mg/L	0.00003	1.14%
Cr 267.716†	-3.9	-0.0001	mg/L	0.00007	-0.0001	mg/L	0.00007	92.58%
Cu 327.393†	1515.7	0.0123	mg/L	0.00237	0.0123	mg/L	0.00237	19.22%
Fe 238.204†	53.9	0.0124	mg/L	0.00031	0.0124	mg/L	0.00031	2.45%
K 766.490†	-94.7	-0.0550	mg/L	0.03903	-0.0550	mg/L	0.03903	70.98%
Mg 285.213†	-66.6	-0.0068	mg/L	0.00080	-0.0068	mg/L	0.00080	11.89%
Mn 257.610†	181.8	0.0063	mg/L	0.00065	0.0063	mg/L	0.00065	10.20%
Mo 202.031†	-5.8	-0.0003	mg/L	0.00059	-0.0003	mg/L	0.00059	196.47%
Na 589.592†	323.8	0.0302	mg/L	0.00808	0.0302	mg/L	0.00808	26.76%
Ni 231.604†	-242.7	-0.0071	mg/L	0.00027	-0.0071	mg/L	0.00027	3.83%
Pb 220.353†	11.3	0.0023	mg/L	0.00120	0.0023	mg/L	0.00120	51.76%
Sb 206.836†	-24.1	-0.0099	mg/L	0.00129	-0.0099	mg/L	0.00129	13.03%
Se 196.026†	18.9	0.0084	mg/L	0.00273	0.0084	mg/L	0.00273	32.38%
Sn 189.927†	23.5	0.0040	mg/L	0.00036	0.0040	mg/L	0.00036	8.87%
Ti 337.279†	50.9	0.0031	mg/L	0.00078	0.0031	mg/L	0.00078	25.65%
Tl 351.924†	26.4	0.0068	mg/L	0.00071	0.0068	mg/L	0.00071	10.34%
V 290.880†	-1233.7	-0.0155	mg/L	0.00049	-0.0155	mg/L	0.00049	3.19%
Zn 206.200†	174.1	0.0058	mg/L	0.00017	0.0058	mg/L	0.00017	2.87%
Zr 343.823†	-32.3	-0.0001	mg/L	0.00017	-0.0001	mg/L	0.00017	112.00%

User canceled analysis.

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Analysis Begun

Start Time: 5/23/2024 5:11:38 PM **Plasma On Time: 5/23/2024 9:36:38 AM**
Originator: Optima8300 **Technique: ICP Continuous**
Spectrometer: Optima 8300 , S/N 078S1703073 **Autosampler: S10**

Sample Information File: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Sample Information\ 0523A24.sifx
Results Data Set: 0523A24
Results Library: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Results\Results.mdb

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Batch ID: OPTIMA 3
Sequence No.: 11 **Autosampler Location: 7**
Sample ID: RINSE **Date Collected: 5/23/2024 5:11:49 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Rinse Time (before sample):

Mean Data: RINSE

==========

Analysis Begun

Start Time: 5/23/2024 5:22:12 PM **Plasma On Time: 5/23/2024 9:36:38 AM**
Originator: Optima8300 **Technique: ICP Continuous**
Spectrometer: Optima 8300 , S/N 078S1703073 **Autosampler: S10**

Sample Information File: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Sample Information\ 0523A24.sifx
Results Data Set: 0523A24
Results Library: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Results\Results.mdb

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Method Loaded
Method Name: ICP3 012424_IEC **Method Last Saved: 4/16/2024 2:40:48 PM**
IEC File: 011224.iec **MSF File:**
Method Description: Soils and Waters

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Al 396.153	Lin Thru 0	Peak Area	Radial	Y radial	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Y axial	Yes
B 208.889	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ba 233.527	Lin Thru 0	Peak Area	Radial	Y axial	Yes
Be 313.107	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Cd 228.802	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cu 327.393	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Fe 238.204	Lin Thru 0	Peak Area	Radial	Y radial	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mg 285.213	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mn 257.610	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Na 589.592	Lin Thru 0	Peak Area	Radial	Y radial	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ti 337.279	Lin Thru 0	Peak Area	Radial	Y radial	No
Tl 351.924	Lin Thru 0	Peak Area	Axial	Y axial	Yes
V 290.880	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Y radial	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Y axial	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 206.200	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Zr 343.823	Lin Thru 0	Peak Area	Axial	Y axial	No

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Batch ID: OPTIMA 3
Sequence No.: 1 **Autosampler Location: 8**
Sample ID: SEQ-ICV@ 23I0972 **Date Collected: 5/23/2024 5:22:24 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Rinse Time (before sample):
User canceled analysis.

==========

Analysis Begun

Start Time: 5/23/2024 5:22:54 PM **Plasma On Time: 5/23/2024 9:36:38 AM**
Originator: Optima8300 **Technique: ICP Continuous**
Spectrometer: Optima 8300 , S/N 078S1703073 **Autosampler: S10**

Sample Information File: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Sample Information\ 0523A24.sifx
Results Data Set: 0523A24

Results Library: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Results\Results.mdb

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Method Loaded
Method Name: ICP3 012424_IEC* **Method Last Saved: 4/16/2024 2:40:48 PM**
IEC File: 011224.iec **MSF File:**
Method Description: Soils and Waters

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Al 396.153	Lin Thru 0	Peak Area	Radial	Y radial	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Y axial	Yes
B 208.889	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ba 233.527	Lin Thru 0	Peak Area	Radial	Y axial	Yes
Be 313.107	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Cd 228.802	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cu 327.393	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Fe 238.204	Lin Thru 0	Peak Area	Radial	Y radial	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mg 285.213	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mn 257.610	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Na 589.592	Lin Thru 0	Peak Area	Radial	Y radial	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ti 337.279	Lin Thru 0	Peak Area	Radial	Y radial	No
Tl 351.924	Lin Thru 0	Peak Area	Axial	Y axial	Yes
V 290.880	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Y radial	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Y axial	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 206.200	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Zr 343.823	Lin Thru 0	Peak Area	Axial	Y axial	No

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Batch ID: OPTIMA 3
Sequence No.: 7 **Autosampler Location: 13**
Sample ID: SEQ-LCV@RR **Date Collected: 5/23/2024 5:22:55 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Rinse Time (before sample):

Mean Data: SEQ-LCV@RR

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	140305.5	100	%	1.35	100	%	1.35	1.35%
Y axial	2651805.6	100	%	2.00	100	%	2.00	2.00%
Ag 328.068†	446.6						56.08	12.56%
Al 396.153†	36.7						14.68	39.98%
As 188.979†	-44.4						1.53	3.44%
B 208.889†	977.9						23.63	2.42%
Ba 233.527†	16.9						4.20	24.81%
Be 313.107†	2356.1						27.10	1.15%
Ca 317.933†	902.3						18.52	2.05%
Cd 228.802†	509.4						5.64	1.11%
Co 228.616†	477.9						11.35	2.37%
Cr 267.716†	711.1						11.60	1.63%
Cu 327.393†	2240.7						132.88	5.93%
Unable to evaluate QC.								
Fe 238.204†	-37.5						3.06	8.16%
K 766.490†	875.2						118.16	13.50%
Mg 285.213†	306.7						9.80	3.20%
Mn 257.610†	-109.5						3.89	3.55%

Mo 202.031†	284.4	2.59	0.91%
Na 589.592†	479.5	70.70	14.74%
Ni 231.604†	815.9	24.30	2.98%
Pb 220.353†	66.2	7.03	10.61%
Sb 206.836†	105.8	1.02	0.96%
Se 196.026†	12.4	1.91	15.39%
Sn 189.927†	4.4	3.29	74.29%
Ti 337.279†	-20.7	15.36	74.36%
Tl 351.924†	-51.0	43.03	84.40%
V 290.880†	2618.8	42.00	1.60%
Zn 206.200†	79.1	3.69	4.67%
Unable to evaluate QC.			
Zr 343.823†	2150.1	30.37	1.41%

No analytes were evaluated. Analysis will continue.
User canceled analysis.

==========

Analysis Begun

Start Time: 5/23/2024 5:29:52 PM **Plasma On Time: 5/23/2024 9:36:38 AM**
Originator: Optima8300 **Technique: ICP Continuous**
Spectrometer: Optima 8300 , S/N 078S1703073 **Autosampler: S10**

Sample Information File: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Sample Information\ 0523A24.sifx
Results Data Set: 0523A24
Results Library: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Results\Results.mdb

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Batch ID: OPTIMA 3
Sequence No.: 7 **Autosampler Location: 13**
Sample ID: SEQ-LCV@RR **Date Collected: 5/23/2024 5:30:02 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Rinse Time (before sample):

Mean Data: SEQ-LCV@RR

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	142553.5	94.0	%	2.25	94.0	%	2.25	2.39%
Y axial	2639409.2	97.8	%	1.85	97.8	%	1.85	1.89%
Ag 328.068†	421.6	0.0058	mg/L	0.00060	0.0058	mg/L	0.00060	10.34%
Al 396.153†	-6.1	-0.0025	mg/L	0.00388	-0.0025	mg/L	0.00388	154.35%
As 188.979†	18.5	0.0119	mg/L	0.00099	0.0119	mg/L	0.00099	8.30%
B 208.889†	785.5	0.0905	mg/L	0.00191	0.0905	mg/L	0.00191	2.11%
Ba 233.527†	45.1	0.0105	mg/L	0.00007	0.0105	mg/L	0.00007	0.66%
Be 313.107†	2615.6	0.0104	mg/L	0.00027	0.0104	mg/L	0.00027	2.57%
Ca 317.933†	95.2	0.0161	mg/L	0.00349	0.0161	mg/L	0.00349	21.72%
Cd 228.802†	375.1	0.0103	mg/L	0.00026	0.0103	mg/L	0.00026	2.52%
Co 228.616†	404.8	0.0109	mg/L	0.00006	0.0109	mg/L	0.00006	0.52%
Cr 267.716†	658.8	0.0107	mg/L	0.00006	0.0107	mg/L	0.00006	0.52%
Cu 327.393†	2086.2	0.0170	mg/L	0.00076	0.0170	mg/L	0.00076	4.46%
QC value greater than the upper limit for Cu 327.393 Recovery = 169.84%								
Fe 238.204†	40.8	0.0095	mg/L	0.00133	0.0095	mg/L	0.00133	13.94%
K 766.490†	67.4	0.0391	mg/L	0.03268	0.0391	mg/L	0.03268	83.53%
Mg 285.213†	128.3	0.0130	mg/L	0.00108	0.0130	mg/L	0.00108	8.32%
Mn 257.610†	292.2	0.0102	mg/L	0.00026	0.0102	mg/L	0.00026	2.52%
Mo 202.031†	201.7	0.0106	mg/L	0.00036	0.0106	mg/L	0.00036	3.39%
Na 589.592†	248.7	0.0232	mg/L	0.01316	0.0232	mg/L	0.01316	56.78%
Ni 231.604†	369.1	0.0108	mg/L	0.00055	0.0108	mg/L	0.00055	5.13%
Pb 220.353†	47.1	0.0097	mg/L	0.00100	0.0097	mg/L	0.00100	10.36%
Sb 206.836†	23.8	0.0098	mg/L	0.00415	0.0098	mg/L	0.00415	42.26%
Se 196.026†	30.0	0.0133	mg/L	0.00256	0.0133	mg/L	0.00256	19.22%
Sn 189.927†	56.9	0.0098	mg/L	0.00021	0.0098	mg/L	0.00021	2.20%
Ti 337.279†	151.7	0.0091	mg/L	0.00021	0.0091	mg/L	0.00021	2.33%
Tl 351.924†	45.9	0.0115	mg/L	0.01725	0.0115	mg/L	0.01725	150.20%
V 290.880†	688.6	0.0089	mg/L	0.00049	0.0089	mg/L	0.00049	5.45%
Zn 206.200†	340.1	0.0115	mg/L	0.00032	0.0115	mg/L	0.00032	2.75%

QC value within limits for Zn 206.200 Recovery = 115.21%
Zr 343.823† 2088.4 0.0096 mg/L 0.00019 0.0096 mg/L 0.00019 2.00%
QC Failed. Continue with analysis.
User canceled analysis.

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Analysis Begun

Start Time: 5/23/2024 5:36:21 PM **Plasma On Time: 5/23/2024 9:36:38 AM**
Originator: Optima8300 **Technique: ICP Continuous**
Spectrometer: Optima 8300 , S/N 078S1703073 **Autosampler: S10**

Sample Information File: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Sample Information\0523A24.sifx
Results Data Set: 0523A24
Results Library: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Results\Results.mdb

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Batch ID: OPTIMA 3
Sequence No.: 7 **Autosampler Location: 13**
Sample ID: SEQ-LCV@RR **Date Collected: 5/23/2024 5:36:32 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Rinse Time (before sample):

Mean Data: SEQ-LCV@RR

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	143304.8	94.5	%	1.35	94.5	%	1.35	1.42%
Y axial	2684679.1	99.4	%	1.02	99.4	%	1.02	1.02%
Ag 328.068†	453.3	0.0063	mg/L	0.00004	0.0063	mg/L	0.00004	0.63%
Al 396.153†	17.6	0.0054	mg/L	0.00530	0.0054	mg/L	0.00530	98.00%
As 188.979†	22.9	0.0148	mg/L	0.00526	0.0148	mg/L	0.00526	35.66%
B 208.889†	696.9	0.0802	mg/L	0.00155	0.0802	mg/L	0.00155	1.93%
Ba 233.527†	43.8	0.0102	mg/L	0.00082	0.0102	mg/L	0.00082	7.99%
Be 313.107†	2565.5	0.0102	mg/L	0.00024	0.0102	mg/L	0.00024	2.35%
Ca 317.933†	80.3	0.0136	mg/L	0.00488	0.0136	mg/L	0.00488	36.00%
Cd 228.802†	372.7	0.0102	mg/L	0.00017	0.0102	mg/L	0.00017	1.66%
Co 228.616†	390.9	0.0105	mg/L	0.00032	0.0105	mg/L	0.00032	3.05%
Cr 267.716†	648.4	0.0105	mg/L	0.00006	0.0105	mg/L	0.00006	0.58%
Cu 327.393†	1995.1	0.0162	mg/L	0.00034	0.0162	mg/L	0.00034	2.11%
QC value greater than the upper limit for Cu 327.393 Recovery = 162.42%								
Fe 238.204†	43.8	0.0102	mg/L	0.00178	0.0102	mg/L	0.00178	17.45%
K 766.490†	45.1	0.0262	mg/L	0.06942	0.0262	mg/L	0.06942	264.92%
Mg 285.213†	108.6	0.0110	mg/L	0.00120	0.0110	mg/L	0.00120	10.89%
Mn 257.610†	283.6	0.0099	mg/L	0.00021	0.0099	mg/L	0.00021	2.15%
Mo 202.031†	190.6	0.0100	mg/L	0.00008	0.0100	mg/L	0.00008	0.84%
Na 589.592†	160.2	0.0149	mg/L	0.00789	0.0149	mg/L	0.00789	52.85%
Ni 231.604†	360.8	0.0105	mg/L	0.00025	0.0105	mg/L	0.00025	2.36%
Pb 220.353†	57.6	0.0119	mg/L	0.00142	0.0119	mg/L	0.00142	11.96%
Sb 206.836†	24.7	0.0102	mg/L	0.00213	0.0102	mg/L	0.00213	20.98%
Se 196.026†	23.0	0.0102	mg/L	0.00036	0.0102	mg/L	0.00036	3.49%
Sn 189.927†	58.9	0.0101	mg/L	0.00051	0.0101	mg/L	0.00051	5.09%
Ti 337.279†	151.4	0.0091	mg/L	0.00019	0.0091	mg/L	0.00019	2.04%
Tl 351.924†	40.0	0.0100	mg/L	0.00303	0.0100	mg/L	0.00303	30.27%
V 290.880†	657.8	0.0085	mg/L	0.00023	0.0085	mg/L	0.00023	2.71%
Zn 206.200†	330.5	0.0112	mg/L	0.00011	0.0112	mg/L	0.00011	1.01%
QC value within limits for Zn 206.200 Recovery = 111.98%								
Zr 343.823†	2061.6	0.0095	mg/L	0.00024	0.0095	mg/L	0.00024	2.49%

QC Failed. Continue with analysis.
User canceled analysis.

NO CU - HNN
052424

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Analysis Begun

Start Time: 5/23/2024 5:40:57 PM **Plasma On Time: 5/23/2024 9:36:38 AM**
Originator: Optima8300 **Technique: ICP Continuous**
Spectrometer: Optima 8300 , S/N 078S1703073 **Autosampler: S10**

Sample Information File: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Sample Information\ 0523A24.sifx
Results Data Set: 0523A24
Results Library: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Results\Results.mdb

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Batch ID: OPTIMA 3
Sequence No.: 1 **Autosampler Location: 8**
Sample ID: SEQ-ICV@ 23I0972 **Date Collected: 5/23/2024 5:41:07 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Rinse Time (before sample):
User canceled analysis.

==========

Analysis Begun

Start Time: 5/23/2024 5:41:37 PM **Plasma On Time: 5/23/2024 9:36:38 AM**
Originator: Optima8300 **Technique: ICP Continuous**
Spectrometer: Optima 8300 , S/N 078S1703073 **Autosampler: S10**

Sample Information File: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Sample Information\ 0523A24.sifx
Results Data Set: 0523A24
Results Library: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Results\Results.mdb

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Batch ID: OPTIMA 3
Sequence No.: 11 **Autosampler Location: 7**
Sample ID: RINSE **Date Collected: 5/23/2024 5:41:37 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Rinse Time (before sample):

Mean Data: RINSE

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y radial	170955.3	113	%	9.11	113	%	9.11	8.08%
Y axial	3228077.7	120	%	11.44	120	%	11.44	9.57%
Ag 328.068†	-17.1	-0.0002	mg/L	0.00047	-0.0002	mg/L	0.00047	194.61%
Al 396.153†	-34.6	-0.0115	mg/L	0.00894	-0.0115	mg/L	0.00894	77.68%
As 188.979†	24.9	0.0161	mg/L	0.00216	0.0161	mg/L	0.00216	13.43%
B 208.889†	242.6	0.0281	mg/L	0.00411	0.0281	mg/L	0.00411	14.61%
Ba 233.527†	13.0	0.0030	mg/L	0.00128	0.0030	mg/L	0.00128	42.15%
Be 313.107†	-211.2	-0.0008	mg/L	0.00008	-0.0008	mg/L	0.00008	10.25%
Ca 317.933†	126.9	0.0214	mg/L	0.01516	0.0214	mg/L	0.01516	70.75%
Cd 228.802†	-54.6	-0.0017	mg/L	0.00018	-0.0017	mg/L	0.00018	10.49%
Co 228.616†	-79.2	-0.0021	mg/L	0.00026	-0.0021	mg/L	0.00026	12.05%
Cr 267.716†	-23.6	-0.0004	mg/L	0.00012	-0.0004	mg/L	0.00012	30.50%
Cu 327.393†	37.6	0.0003	mg/L	0.00016	0.0003	mg/L	0.00016	52.35%
Fe 238.204†	49.9	0.0115	mg/L	0.00073	0.0115	mg/L	0.00073	6.35%
K 766.490†	-143.2	-0.0831	mg/L	0.06489	-0.0831	mg/L	0.06489	78.08%
Mg 285.213†	-89.2	-0.0090	mg/L	0.00110	-0.0090	mg/L	0.00110	12.18%
Mn 257.610†	193.4	0.0067	mg/L	0.00078	0.0067	mg/L	0.00078	11.53%
Mo 202.031†	-2.2	-0.0001	mg/L	0.00051	-0.0001	mg/L	0.00051	437.62%
Na 589.592†	-77.3	-0.0072	mg/L	0.00884	-0.0072	mg/L	0.00884	122.69%
Ni 231.604†	-222.0	-0.0065	mg/L	0.00067	-0.0065	mg/L	0.00067	10.42%
Pb 220.353†	1.4	0.0003	mg/L	0.00008	0.0003	mg/L	0.00008	27.67%
Sb 206.836†	-25.3	-0.0105	mg/L	0.00232	-0.0105	mg/L	0.00232	22.17%

Se 196.026†	17.0	0.0076	mg/L	0.00196	0.0076	mg/L	0.00196 25.87%
Sn 189.927†	13.8	0.0023	mg/L	0.00053	0.0023	mg/L	0.00053 22.67%
Ti 337.279†	59.9	0.0036	mg/L	0.00062	0.0036	mg/L	0.00062 17.27%
Tl 351.924†	36.1	0.0090	mg/L	0.00322	0.0090	mg/L	0.00322 35.72%
V 290.880†	-1251.6	-0.0157	mg/L	0.00092	-0.0157	mg/L	0.00092 5.85%
Zn 206.200†	142.2	0.0048	mg/L	0.00032	0.0048	mg/L	0.00032 6.76%
Zr 343.823†	-28.0	-0.0001	mg/L	0.00010	-0.0001	mg/L	0.00010 74.06%

Batch ID: OPTIMA 3
Sequence No.: 12 **Autosampler Location: 7**
Sample ID: RINSE **Date Collected: 5/23/2024 5:47:33 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Rinse Time (before sample): 110

Mean Data: RINSE

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	174380.5	115	%	7.73	115	%	7.73	6.72%
Y axial	3304049.9	122	%	7.53	122	%	7.53	6.15%
Ag 328.068†	-48.4	-0.0007	mg/L	0.00028	-0.0007	mg/L	0.00028	41.79%
Al 396.153†	-29.1	-0.0097	mg/L	0.00335	-0.0097	mg/L	0.00335	34.47%
As 188.979†	28.1	0.0182	mg/L	0.00083	0.0182	mg/L	0.00083	4.56%
B 208.889†	216.0	0.0250	mg/L	0.00341	0.0250	mg/L	0.00341	13.65%
Ba 233.527†	16.0	0.0037	mg/L	0.00067	0.0037	mg/L	0.00067	18.10%
Be 313.107†	-189.5	-0.0007	mg/L	0.00013	-0.0007	mg/L	0.00013	18.24%
Ca 317.933†	76.9	0.0130	mg/L	0.01444	0.0130	mg/L	0.01444	111.22%
Cd 228.802†	-59.4	-0.0019	mg/L	0.00019	-0.0019	mg/L	0.00019	10.11%
Co 228.616†	-80.7	-0.0022	mg/L	0.00011	-0.0022	mg/L	0.00011	5.01%
Cr 267.716†	-36.8	-0.0006	mg/L	0.00005	-0.0006	mg/L	0.00005	8.96%
Cu 327.393†	13.4	0.0001	mg/L	0.00029	0.0001	mg/L	0.00029	264.16%
Fe 238.204†	50.2	0.0116	mg/L	0.00037	0.0116	mg/L	0.00037	3.23%
K 766.490†	-117.3	-0.0681	mg/L	0.02428	-0.0681	mg/L	0.02428	35.67%
Mg 285.213†	-90.7	-0.0092	mg/L	0.00096	-0.0092	mg/L	0.00096	10.44%
Mn 257.610†	199.2	0.0069	mg/L	0.00050	0.0069	mg/L	0.00050	7.25%
Mo 202.031†	-0.8	-0.0000	mg/L	0.00046	-0.0000	mg/L	0.00046	>999.9%
Na 589.592†	-65.2	-0.0061	mg/L	0.01111	-0.0061	mg/L	0.01111	182.81%
Ni 231.604†	-230.0	-0.0067	mg/L	0.00063	-0.0067	mg/L	0.00063	9.38%
Pb 220.353†	3.6	0.0007	mg/L	0.00012	0.0007	mg/L	0.00012	16.80%
Sb 206.836†	-26.4	-0.0109	mg/L	0.00240	-0.0109	mg/L	0.00240	22.04%
Se 196.026†	16.1	0.0072	mg/L	0.00162	0.0072	mg/L	0.00162	22.58%
Sn 189.927†	15.0	0.0025	mg/L	0.00077	0.0025	mg/L	0.00077	30.19%
Ti 337.279†	67.2	0.0040	mg/L	0.00078	0.0040	mg/L	0.00078	19.39%
Tl 351.924†	15.9	0.0040	mg/L	0.00226	0.0040	mg/L	0.00226	56.36%
V 290.880†	-1259.7	-0.0158	mg/L	0.00078	-0.0158	mg/L	0.00078	4.91%
Zn 206.200†	143.8	0.0048	mg/L	0.00037	0.0048	mg/L	0.00037	7.75%
Zr 343.823†	-44.0	-0.0002	mg/L	0.00006	-0.0002	mg/L	0.00006	30.83%

Batch ID: OPTIMA 3
Sequence No.: 13 **Autosampler Location: 38**
Sample ID: BB375144-MS1 **Date Collected: 5/23/2024 5:53:27 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Rinse Time (before sample): 110

Mean Data: BB375144-MS1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	143418.3	94.6	%	1.01	94.6	%	1.01	1.06%
Y axial	2513883.9	93.1	%	0.22	93.1	%	0.22	0.24%
Ag 328.068†	157788.2	2.186	mg/L	0.0328	2.186	mg/L	0.0328	1.50%
Al 396.153†	6601.3	2.088	mg/L	0.0123	2.088	mg/L	0.0123	0.59%
As 188.979†	3264.9	2.109	mg/L	0.0231	2.109	mg/L	0.0231	1.10%
B 208.889†	37407.9	4.234	mg/L	0.0352	4.234	mg/L	0.0352	0.83%

Ba 233.527†	9134.7	2.128 mg/L	0.0115	2.128 mg/L	0.0115	0.54%
Be 313.107†	510181.9	2.028 mg/L	0.0692	2.028 mg/L	0.0692	3.41%
Ca 317.933†	553268.5	93.43 mg/L	3.377	93.43 mg/L	3.377	3.61%
Cd 228.802†	76344.0	2.107 mg/L	0.0030	2.107 mg/L	0.0030	0.14%
Co 228.616†	73648.7	1.980 mg/L	0.0038	1.980 mg/L	0.0038	0.19%
Cr 267.716†	126705.3	2.056 mg/L	0.0046	2.056 mg/L	0.0046	0.23%
Cu 327.393†	534668.0	4.353 mg/L	0.0177	4.353 mg/L	0.0177	0.41%
Fe 238.204†	72240.8	16.72 mg/L	0.028	16.72 mg/L	0.028	0.16%
K 766.490†	47035.0	27.30 mg/L	0.020	27.30 mg/L	0.020	0.07%
Mg 285.213†	271167.7	27.46 mg/L	0.815	27.46 mg/L	0.815	2.97%
Mn 257.610†	58640.9	2.044 mg/L	0.0027	2.044 mg/L	0.0027	0.13%
Mo 202.031†	39155.9	2.050 mg/L	0.0175	2.050 mg/L	0.0175	0.85%
Na 589.592†	6280897.1	585.5 mg/L	14.21	585.5 mg/L	14.21	2.43%
Ni 231.604†	66869.6	1.948 mg/L	0.0060	1.948 mg/L	0.0060	0.31%
Pb 220.353†	9648.9	1.987 mg/L	0.0125	1.987 mg/L	0.0125	0.63%
Sb 206.836†	5237.9	2.156 mg/L	0.0157	2.156 mg/L	0.0157	0.73%
Se 196.026†	4978.3	2.225 mg/L	0.0195	2.225 mg/L	0.0195	0.87%
Sn 189.927†	11122.8	1.959 mg/L	0.0135	1.959 mg/L	0.0135	0.69%
Ti 337.279†	34459.6	2.073 mg/L	0.0053	2.073 mg/L	0.0053	0.25%
Tl 351.924†	9100.7	2.260 mg/L	0.0154	2.260 mg/L	0.0154	0.68%
V 290.880†	165723.8	2.132 mg/L	0.0060	2.132 mg/L	0.0060	0.28%
Zn 206.200†	255726.7	8.552 mg/L	0.0372	8.552 mg/L	0.0372	0.44%
Zr 343.823†	516.1	0.0024 mg/L	0.00066	0.0024 mg/L	0.00066	27.91%

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Batch ID: OPTIMA 3
Sequence No.: 14 **Autosampler Location: 39**
Sample ID: BB375144-DUP1 **Date Collected: 5/23/2024 6:00:23 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Rinse Time (before sample): 220

Mean Data: BB375144-DUP1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	146625.8	96.7	%	1.87	96.7	%	1.87	1.93%
Y axial	2530914.3	93.7	%	0.92	93.7	%	0.92	0.98%
Ag 328.068†	165.8	0.0023	mg/L	0.00062	0.0023	mg/L	0.00062	26.76%
Al 396.153†	115.3	0.0238	mg/L	0.00819	0.0238	mg/L	0.00819	34.42%
As 188.979†	13.3	0.0084	mg/L	0.00178	0.0084	mg/L	0.00178	21.05%
B 208.889†	2799.4	0.3235	mg/L	0.00241	0.3235	mg/L	0.00241	0.75%
Ba 233.527†	323.9	0.0755	mg/L	0.00124	0.0755	mg/L	0.00124	1.65%
Be 313.107†	36.8	0.0001	mg/L	0.00006	0.0001	mg/L	0.00006	45.07%
Ca 317.933†	484819.1	81.88	mg/L	0.283	81.88	mg/L	0.283	0.35%
Cd 228.802†	39.9	0.0010	mg/L	0.00019	0.0010	mg/L	0.00019	18.51%
Co 228.616†	92.5	0.0026	mg/L	0.00008	0.0026	mg/L	0.00008	3.06%
Cr 267.716†	11.1	0.0002	mg/L	0.00002	0.0002	mg/L	0.00002	8.78%
Cu 327.393†	1210.1	0.0099	mg/L	0.00017	0.0099	mg/L	0.00017	1.69%
Fe 238.204†	1856.0	0.4290	mg/L	0.00758	0.4290	mg/L	0.00758	1.77%
K 766.490†	17164.1	9.964	mg/L	0.0344	9.964	mg/L	0.0344	0.35%
Mg 285.213†	120227.4	12.16	mg/L	0.011	12.16	mg/L	0.011	0.09%
Mn 257.610†	655.6	0.0229	mg/L	0.00025	0.0229	mg/L	0.00025	1.08%
Mo 202.031†	288.1	0.0129	mg/L	0.00124	0.0129	mg/L	0.00124	9.59%
Na 589.592†	6092225.6	567.9	mg/L	20.60	567.9	mg/L	20.60	3.63%
Ni 231.604†	116.7	0.0034	mg/L	0.00023	0.0034	mg/L	0.00023	6.64%
Pb 220.353†	7.1	0.0025	mg/L	0.00153	0.0025	mg/L	0.00153	60.60%
Sb 206.836†	13.0	0.0046	mg/L	0.00383	0.0046	mg/L	0.00383	83.99%
Se 196.026†	-5.9	-0.0052	mg/L	0.00114	-0.0052	mg/L	0.00114	21.69%
Sn 189.927†	-564.6	-0.0707	mg/L	0.00160	-0.0707	mg/L	0.00160	2.27%
Ti 337.279†	5.4	0.0003	mg/L	0.00087	0.0003	mg/L	0.00087	266.91%
Tl 351.924†	36.0	0.0072	mg/L	0.00140	0.0072	mg/L	0.00140	19.55%
V 290.880†	294.7	0.0034	mg/L	0.00039	0.0034	mg/L	0.00039	11.38%
Zn 206.200†	137748.7	4.574	mg/L	0.0596	4.574	mg/L	0.0596	1.30%
Zr 343.823†	9.7	0.0000	mg/L	0.00002	0.0000	mg/L	0.00002	50.73%

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Batch ID: OPTIMA 3
Sequence No.: 15 **Autosampler Location: 40**

Sample ID: 24E2149-01
Analyst:
Initial Sample Wt:
Dilution:
Rinse Time (before sample): 220

Date Collected: 5/23/2024 6:08:16 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 24E2149-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	170603.5	112	%	5.50	112	%	5.50	4.89%
Y axial	2986233.3	111	%	2.44	111	%	2.44	2.20%
Ag 328.068†	32.9	0.0005	mg/L	0.00020	0.0005	mg/L	0.00020	43.00%
Al 396.153†	109.0	0.0215	mg/L	0.00193	0.0215	mg/L	0.00193	8.97%
As 188.979†	14.0	0.0089	mg/L	0.00218	0.0089	mg/L	0.00218	24.54%
B 208.889†	2722.9	0.3147	mg/L	0.00463	0.3147	mg/L	0.00463	1.47%
Ba 233.527†	329.2	0.0767	mg/L	0.00308	0.0767	mg/L	0.00308	4.01%
Be 313.107†	-74.3	-0.0003	mg/L	0.00006	-0.0003	mg/L	0.00006	18.13%
Ca 317.933†	493899.3	83.41	mg/L	0.460	83.41	mg/L	0.460	0.55%
Cd 228.802†	-2.0	-0.0002	mg/L	0.00009	-0.0002	mg/L	0.00009	59.15%
Co 228.616†	98.2	0.0027	mg/L	0.00013	0.0027	mg/L	0.00013	4.64%
Cr 267.716†	21.3	0.0004	mg/L	0.00013	0.0004	mg/L	0.00013	37.14%
Cu 327.393†	1068.3	0.0087	mg/L	0.00023	0.0087	mg/L	0.00023	2.68%
Fe 238.204†	1950.6	0.4509	mg/L	0.00774	0.4509	mg/L	0.00774	1.72%
K 766.490†	16933.6	9.830	mg/L	0.0354	9.830	mg/L	0.0354	0.36%
Mg 285.213†	120554.9	12.19	mg/L	0.046	12.19	mg/L	0.046	0.38%
Mn 257.610†	713.9	0.0249	mg/L	0.00015	0.0249	mg/L	0.00015	0.60%
Mo 202.031†	259.5	0.0114	mg/L	0.00043	0.0114	mg/L	0.00043	3.75%
Na 589.592†	6197397.1	577.7	mg/L	3.80	577.7	mg/L	3.80	0.66%
Ni 231.604†	65.5	0.0019	mg/L	0.00040	0.0019	mg/L	0.00040	21.00%
Pb 220.353†	-3.5	0.0004	mg/L	0.00086	0.0004	mg/L	0.00086	225.66%
Sb 206.836†	-0.8	-0.0011	mg/L	0.00280	-0.0011	mg/L	0.00280	258.16%
Se 196.026†	-11.3	-0.0077	mg/L	0.00177	-0.0077	mg/L	0.00177	23.00%
Sn 189.927†	-550.2	-0.0681	mg/L	0.00095	-0.0681	mg/L	0.00095	1.40%
Ti 337.279†	29.3	0.0018	mg/L	0.00020	0.0018	mg/L	0.00020	11.33%
Tl 351.924†	41.4	0.0084	mg/L	0.00196	0.0084	mg/L	0.00196	23.27%
V 290.880†	230.5	0.0026	mg/L	0.00041	0.0026	mg/L	0.00041	15.87%
Zn 206.200†	145276.3	4.826	mg/L	0.0207	4.826	mg/L	0.0207	0.43%
Zr 343.823†	-14.3	-0.0001	mg/L	0.00005	-0.0001	mg/L	0.00005	72.95%

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Batch ID: OPTIMA 3
Sequence No.: 16
Sample ID: 24E2149-02
Analyst:
Initial Sample Wt:
Dilution:
Rinse Time (before sample): 220

Autosampler Location: 41
Date Collected: 5/23/2024 6:16:12 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 24E2149-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	182109.5	120	%	4.73	120	%	4.73	3.94%
Y axial	3078580.2	114	%	1.16	114	%	1.16	1.02%
Ag 328.068†	56.4	0.0007	mg/L	0.00042	0.0007	mg/L	0.00042	55.79%
Al 396.153†	16.8	0.0056	mg/L	0.00588	0.0056	mg/L	0.00588	104.80%
As 188.979†	13.7	0.0086	mg/L	0.00260	0.0086	mg/L	0.00260	30.06%
B 208.889†	5990.2	0.6939	mg/L	0.00775	0.6939	mg/L	0.00775	1.12%
Ba 233.527†	93.3	0.0218	mg/L	0.00087	0.0218	mg/L	0.00087	4.01%
Be 313.107†	-108.2	-0.0004	mg/L	0.00006	-0.0004	mg/L	0.00006	13.91%
Ca 317.933†	1962.5	0.3314	mg/L	0.00614	0.3314	mg/L	0.00614	1.85%
Cd 228.802†	-1.5	-0.0001	mg/L	0.00018	-0.0001	mg/L	0.00018	124.33%
Co 228.616†	46.8	0.0013	mg/L	0.00004	0.0013	mg/L	0.00004	3.23%
Cr 267.716†	-17.3	-0.0003	mg/L	0.00016	-0.0003	mg/L	0.00016	47.50%
Cu 327.393†	675.0	0.0055	mg/L	0.00048	0.0055	mg/L	0.00048	8.76%
Fe 238.204†	1063.2	0.2458	mg/L	0.00277	0.2458	mg/L	0.00277	1.13%
K 766.490†	1486.7	0.8631	mg/L	0.03778	0.8631	mg/L	0.03778	4.38%
Mg 285.213†	492.5	0.0500	mg/L	0.00070	0.0500	mg/L	0.00070	1.40%
Mn 257.610†	5748.7	0.2003	mg/L	0.00159	0.2003	mg/L	0.00159	0.79%

Mo 202.031†	-19.7	-0.0010	mg/L	0.00008	-0.0010	mg/L	0.00008 8.24%
Na 589.592†	6697695.3	624.4	mg/L	13.41	624.4	mg/L	13.41 2.15%
Ni 231.604†	-8.9	-0.0003	mg/L	0.00029	-0.0003	mg/L	0.00029 101.01%
Pb 220.353†	-1.3	-0.0003	mg/L	0.00148	-0.0003	mg/L	0.00148 498.93%
Sb 206.836†	1.7	0.0007	mg/L	0.00121	0.0007	mg/L	0.00121 180.66%
Se 196.026†	9.2	0.0042	mg/L	0.00039	0.0042	mg/L	0.00039 9.31%
Sn 189.927†	21.3	0.0038	mg/L	0.00070	0.0038	mg/L	0.00070 18.54%
Ti 337.279†	23.8	0.0014	mg/L	0.00107	0.0014	mg/L	0.00107 75.06%
Tl 351.924†	11.6	0.0036	mg/L	0.00694	0.0036	mg/L	0.00694 194.95%
V 290.880†	6.8	0.0000	mg/L	0.00065	0.0000	mg/L	0.00065 >999.9%
Zn 206.200†	389.9	-0.0412	mg/L	0.00102	-0.0412	mg/L	0.00102 2.48%
Zr 343.823†	-25.7	-0.0001	mg/L	0.00022	-0.0001	mg/L	0.00022 185.51%

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Batch ID: OPTIMA 3
Sequence No.: 17
Sample ID: B374725-MS1@10X
Analyst:
Initial Sample Wt:
Dilution:
Rinse Time (before sample): 220

Autosampler Location: 42
Date Collected: 5/23/2024 6:24:08 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: B374725-MS1@10X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	151795.3	100	%	0.73	100	%	0.73	0.73%
Y axial	2688808.9	99.6	%	1.73	99.6	%	1.73	1.74%
Ag 328.068†	4084.7	0.0584	mg/L	0.00111	0.0584	mg/L	0.00111	1.89%
Al 396.153†	127654.8	42.52	mg/L	0.341	42.52	mg/L	0.341	0.80%
As 188.979†	92.1	0.0724	mg/L	0.00318	0.0724	mg/L	0.00318	4.39%
B 208.889†	1216.2	0.1388	mg/L	0.00428	0.1388	mg/L	0.00428	3.08%
Ba 233.527†	1270.3	0.2929	mg/L	0.00755	0.2929	mg/L	0.00755	2.58%
Be 313.107†	14656.9	0.0580	mg/L	0.00048	0.0580	mg/L	0.00048	0.83%
Ca 317.933†	130293.3	21.98	mg/L	0.209	21.98	mg/L	0.209	0.95%
Cd 228.802†	1989.1	0.0550	mg/L	0.00160	0.0550	mg/L	0.00160	2.92%
Co 228.616†	3300.8	0.0884	mg/L	0.00240	0.0884	mg/L	0.00240	2.72%
Cr 267.716†	6150.5	0.1021	mg/L	0.00269	0.1021	mg/L	0.00269	2.63%
Cu 327.393†	24934.0	0.2055	mg/L	0.00566	0.2055	mg/L	0.00566	2.75%
Fe 238.204†	313939.9	72.57	mg/L	0.735	72.57	mg/L	0.735	1.01%
K 766.490†	4949.9	2.861	mg/L	0.0246	2.861	mg/L	0.0246	0.86%
Mg 285.213†	121256.4	12.33	mg/L	0.121	12.33	mg/L	0.121	0.98%
Mn 257.610†	46760.0	1.631	mg/L	0.0143	1.631	mg/L	0.0143	0.87%
Mo 202.031†	826.3	0.0490	mg/L	0.00128	0.0490	mg/L	0.00128	2.61%
Na 589.592†	10499.8	0.9788	mg/L	0.03555	0.9788	mg/L	0.03555	3.63%
Ni 231.604†	4217.8	0.1227	mg/L	0.00342	0.1227	mg/L	0.00342	2.79%
Pb 220.353†	846.5	0.1740	mg/L	0.00542	0.1740	mg/L	0.00542	3.11%
Sb 206.836†	19.3	0.0046	mg/L	0.00200	0.0046	mg/L	0.00200	43.85%
Se 196.026†	-55.7	0.0628	mg/L	0.00398	0.0628	mg/L	0.00398	6.34%
Sn 189.927†	-212.0	-0.0124	mg/L	0.00057	-0.0124	mg/L	0.00057	4.59%
Ti 337.279†	4537.7	0.2730	mg/L	0.00148	0.2730	mg/L	0.00148	0.54%
Tl 351.924†	240.2	0.0639	mg/L	0.00201	0.0639	mg/L	0.00201	3.15%
V 290.880†	9397.8	0.1136	mg/L	0.00471	0.1136	mg/L	0.00471	4.14%
Zn 206.200†	10617.2	0.3533	mg/L	0.00934	0.3533	mg/L	0.00934	2.64%
Zr 343.823†	2607.1	0.0120	mg/L	0.00042	0.0120	mg/L	0.00042	3.53%

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Batch ID: OPTIMA 3
Sequence No.: 18
Sample ID: B374725-MSD1@10X
Analyst:
Initial Sample Wt:
Dilution:
Rinse Time (before sample): 220

Autosampler Location: 43
Date Collected: 5/23/2024 6:31:55 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: B374725-MSD1@10X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	151994.7	100	%	3.21	100	%	3.21	3.21%

Y axial	2723490.9	101 %	0.69	101 %	0.69	0.68%
Ag 328.068†	4116.9	0.0589 mg/L	0.00078	0.0589 mg/L	0.00078	1.33%
Al 396.153†	131195.4	43.70 mg/L	0.666	43.70 mg/L	0.666	1.52%
As 188.979†	86.1	0.0684 mg/L	0.00161	0.0684 mg/L	0.00161	2.36%
B 208.889†	1146.6	0.1308 mg/L	0.00180	0.1308 mg/L	0.00180	1.38%
Ba 233.527†	1238.3	0.2855 mg/L	0.00269	0.2855 mg/L	0.00269	0.94%
Be 313.107†	14655.8	0.0581 mg/L	0.00251	0.0581 mg/L	0.00251	4.33%
Ca 317.933†	60909.9	10.27 mg/L	0.108	10.27 mg/L	0.108	1.05%
Cd 228.802†	1973.1	0.0546 mg/L	0.00101	0.0546 mg/L	0.00101	1.84%
Co 228.616†	3287.6	0.0880 mg/L	0.00186	0.0880 mg/L	0.00186	2.12%
Cr 267.716†	6176.1	0.1025 mg/L	0.00184	0.1025 mg/L	0.00184	1.79%
Cu 327.393†	24006.8	0.1979 mg/L	0.00329	0.1979 mg/L	0.00329	1.66%
Fe 238.204†	311173.1	71.93 mg/L	0.892	71.93 mg/L	0.892	1.24%
K 766.490†	4942.0	2.856 mg/L	0.0923	2.856 mg/L	0.0923	3.23%
Mg 285.213†	121227.7	12.33 mg/L	0.177	12.33 mg/L	0.177	1.43%
Mn 257.610†	42133.0	1.469 mg/L	0.0190	1.469 mg/L	0.0190	1.29%
Mo 202.031†	800.5	0.0479 mg/L	0.00134	0.0479 mg/L	0.00134	2.80%
Na 589.592†	8476.3	0.7902 mg/L	0.01555	0.7902 mg/L	0.01555	1.97%
Ni 231.604†	4098.0	0.1192 mg/L	0.00190	0.1192 mg/L	0.00190	1.59%
Pb 220.353†	807.8	0.1660 mg/L	0.00190	0.1660 mg/L	0.00190	1.14%
Sb 206.836†	17.5	0.0038 mg/L	0.00098	0.0038 mg/L	0.00098	25.72%
Se 196.026†	-57.1	0.0620 mg/L	0.00505	0.0620 mg/L	0.00505	8.15%
Sn 189.927†	-183.3	-0.0079 mg/L	0.00028	-0.0079 mg/L	0.00028	3.53%
Ti 337.279†	4535.6	0.2729 mg/L	0.00941	0.2729 mg/L	0.00941	3.45%
Tl 351.924†	220.5	0.0594 mg/L	0.00448	0.0594 mg/L	0.00448	7.54%
V 290.880†	9071.1	0.1095 mg/L	0.00332	0.1095 mg/L	0.00332	3.03%
Zn 206.200†	10371.9	0.3452 mg/L	0.00659	0.3452 mg/L	0.00659	1.91%
Zr 343.823†	2535.5	0.0117 mg/L	0.00013	0.0117 mg/L	0.00013	1.08%

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Batch ID: OPTIMA 3
Sequence No.: 19 **Autosampler Location: 44**
Sample ID: B374725-PS1@10X **Date Collected: 5/23/2024 6:39:42 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Rinse Time (before sample): 220

Mean Data: B374725-PS1@10X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	149240.7	98.4	%	1.10	98.4	%	1.10	1.12%
Y axial	2681106.4	99.3	%	1.27	99.3	%	1.27	1.28%
Ag 328.068†	154626.3	2.144	mg/L	0.0378	2.144	mg/L	0.0378	1.76%
Al 396.153†	118794.0	39.48	mg/L	0.522	39.48	mg/L	0.522	1.32%
As 188.979†	3052.3	1.984	mg/L	0.0195	1.984	mg/L	0.0195	0.98%
B 208.889†	34653.4	3.918	mg/L	0.0412	3.918	mg/L	0.0412	1.05%
Ba 233.527†	9634.0	2.242	mg/L	0.0061	2.242	mg/L	0.0061	0.27%
Be 313.107†	527253.3	2.097	mg/L	0.0357	2.097	mg/L	0.0357	1.70%
Ca 317.933†	167720.3	28.30	mg/L	0.448	28.30	mg/L	0.448	1.58%
Cd 228.802†	74359.3	2.054	mg/L	0.0008	2.054	mg/L	0.0008	0.04%
Co 228.616†	76697.1	2.062	mg/L	0.0012	2.062	mg/L	0.0012	0.06%
Cr 267.716†	129702.0	2.107	mg/L	0.0032	2.107	mg/L	0.0032	0.15%
Cu 327.393†	516830.8	4.210	mg/L	0.0100	4.210	mg/L	0.0100	0.24%
Fe 238.204†	345185.3	79.81	mg/L	1.229	79.81	mg/L	1.229	1.54%
K 766.490†	32065.6	18.60	mg/L	0.053	18.60	mg/L	0.053	0.29%
Mg 285.213†	265139.1	26.91	mg/L	0.394	26.91	mg/L	0.394	1.46%
Mn 257.610†	99057.7	3.454	mg/L	0.0139	3.454	mg/L	0.0139	0.40%
Mo 202.031†	37798.4	1.986	mg/L	0.0089	1.986	mg/L	0.0089	0.45%
Na 589.592†	179562.1	16.74	mg/L	0.228	16.74	mg/L	0.228	1.36%
Ni 231.604†	69385.0	2.021	mg/L	0.0094	2.021	mg/L	0.0094	0.46%
Pb 220.353†	10380.2	2.136	mg/L	0.0125	2.136	mg/L	0.0125	0.59%
Sb 206.836†	5055.0	2.080	mg/L	0.0151	2.080	mg/L	0.0151	0.73%
Se 196.026†	4332.6	2.018	mg/L	0.0157	2.018	mg/L	0.0157	0.78%
Sn 189.927†	11402.5	2.004	mg/L	0.0120	2.004	mg/L	0.0120	0.60%
Ti 337.279†	37585.4	2.261	mg/L	0.0028	2.261	mg/L	0.0028	0.12%
Tl 351.924†	8974.2	2.233	mg/L	0.0150	2.233	mg/L	0.0150	0.67%
V 290.880†	166611.3	2.137	mg/L	0.0037	2.137	mg/L	0.0037	0.17%
Zn 206.200†	124583.5	4.197	mg/L	0.0163	4.197	mg/L	0.0163	0.39%

Zr 343.823†	2657.0	0.0122	mg/L	0.00009	0.0122	mg/L	0.00009	0.70%

Batch ID: OPTIMA 3
Sequence No.: 20 **Autosampler Location: 45**
Sample ID: B374725-SRL@50X **Date Collected: 5/23/2024 6:46:31 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Rinse Time (before sample): 220

Mean Data: B374725-SRL@50X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	152480.2	101	%	1.40	101	%	1.40	1.40%
Y axial	2763768.0	102	%	0.81	102	%	0.81	0.79%
Ag 328.068†	264.9	0.0040	mg/L	0.00055	0.0040	mg/L	0.00055	13.71%
Al 396.153†	22286.2	7.424	mg/L	0.0127	7.424	mg/L	0.0127	0.17%
As 188.979†	10.3	0.0090	mg/L	0.00034	0.0090	mg/L	0.00034	3.77%
B 208.889†	404.5	0.0469	mg/L	0.00085	0.0469	mg/L	0.00085	1.81%
Ba 233.527†	189.9	0.0437	mg/L	0.00103	0.0437	mg/L	0.00103	2.35%
Be 313.107†	95.2	0.0003	mg/L	0.00002	0.0003	mg/L	0.00002	4.76%
Ca 317.933†	14896.4	2.512	mg/L	0.0084	2.512	mg/L	0.0084	0.33%
Cd 228.802†	6.3	0.0001	mg/L	0.00017	0.0001	mg/L	0.00017	146.15%
Co 228.616†	259.0	0.0069	mg/L	0.00024	0.0069	mg/L	0.00024	3.46%
Cr 267.716†	484.8	0.0083	mg/L	0.00013	0.0083	mg/L	0.00013	1.53%
Cu 327.393†	2326.7	0.0194	mg/L	0.00069	0.0194	mg/L	0.00069	3.57%
Fe 238.204†	56044.0	12.95	mg/L	0.033	12.95	mg/L	0.033	0.25%
K 766.490†	911.1	0.5267	mg/L	0.02547	0.5267	mg/L	0.02547	4.84%
Mg 285.213†	20720.8	2.109	mg/L	0.0057	2.109	mg/L	0.0057	0.27%
Mn 257.610†	8175.0	0.2851	mg/L	0.00108	0.2851	mg/L	0.00108	0.38%
Mo 202.031†	-17.7	0.0001	mg/L	0.00038	0.0001	mg/L	0.00038	270.08%
Na 589.592†	1416.9	0.1321	mg/L	0.00621	0.1321	mg/L	0.00621	4.70%
Ni 231.604†	430.8	0.0125	mg/L	0.00033	0.0125	mg/L	0.00033	2.65%
Pb 220.353†	106.9	0.0219	mg/L	0.00114	0.0219	mg/L	0.00114	5.20%
Sb 206.836†	-0.4	-0.0008	mg/L	0.00230	-0.0008	mg/L	0.00230	276.29%
Se 196.026†	-19.6	0.0070	mg/L	0.00223	0.0070	mg/L	0.00223	32.11%
Sn 189.927†	-92.7	-0.0118	mg/L	0.00085	-0.0118	mg/L	0.00085	7.19%
Ti 337.279†	676.9	0.0407	mg/L	0.00074	0.0407	mg/L	0.00074	1.83%
Tl 351.924†	59.6	0.0156	mg/L	0.01152	0.0156	mg/L	0.01152	73.95%
V 290.880†	785.6	0.0089	mg/L	0.00097	0.0089	mg/L	0.00097	11.01%
Zn 206.200†	1370.5	0.0453	mg/L	0.00034	0.0453	mg/L	0.00034	0.74%
Zr 343.823†	469.9	0.0022	mg/L	0.00010	0.0022	mg/L	0.00010	4.73%

User canceled analysis.

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Analysis Begun

Start Time: 5/23/2024 6:51:12 PM **Plasma On Time: 5/23/2024 9:36:38 AM**
Originator: Optima8300 **Technique: ICP Continuous**
Spectrometer: Optima 8300 , S/N 078S1703073 **Autosampler: S10**

Sample Information File: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Sample Information\ 0523A24.sifx
Results Data Set: 0523A24
Results Library: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Results\Results.mdb

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Batch ID: OPTIMA 3
Sequence No.: 1 **Autosampler Location: 8**
Sample ID: SEQ-ICV@ 23I0972 **Date Collected: 5/23/2024 6:51:22 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Rinse Time (before sample):
User canceled analysis.

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Analysis Begun

Start Time: 5/23/2024 6:51:46 PM **Plasma On Time: 5/23/2024 9:36:38 AM**
Originator: Optima8300 **Technique: ICP Continuous**
Spectrometer: Optima 8300 , S/N 078S1703073 **Autosampler: S10**

Sample Information File: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Sample Information\ 0523A24.sifx
Results Data Set: 0523A24
Results Library: C:\Users\Public\PerkinElmer Syngistix\ICP\Data\Results\Results.mdb

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Batch ID: OPTIMA 3
Sequence No.: 21 **Autosampler Location: 46**
Sample ID: 24E1437-06@10X **Date Collected: 5/23/2024 6:51:46 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Rinse Time (before sample):

Mean Data: 24E1437-06@10X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	152615.1	101	%	1.02	101	%	1.02	1.01%
Y axial	2740177.7	101	%	2.22	101	%	2.22	2.19%
Ag 328.068†	14.5	0.0018	mg/L	0.00072	0.0018	mg/L	0.00072	39.34%
Al 396.153†	111962.5	37.29	mg/L	0.076	37.29	mg/L	0.076	0.20%
As 188.979†	9.8	0.0178	mg/L	0.00372	0.0178	mg/L	0.00372	20.96%
B 208.889†	408.6	0.0476	mg/L	0.00095	0.0476	mg/L	0.00095	2.00%
Ba 233.527†	940.5	0.2164	mg/L	0.00561	0.2164	mg/L	0.00561	2.59%
Be 313.107†	511.7	0.0018	mg/L	0.00002	0.0018	mg/L	0.00002	0.98%
Ca 317.933†	74352.6	12.54	mg/L	0.019	12.54	mg/L	0.019	0.15%
Cd 228.802†	20.1	0.0006	mg/L	0.00011	0.0006	mg/L	0.00011	19.65%
Co 228.616†	1160.8	0.0308	mg/L	0.00081	0.0308	mg/L	0.00081	2.62%
Cr 267.716†	2498.4	0.0426	mg/L	0.00098	0.0426	mg/L	0.00098	2.31%
Cu 327.393†	9702.7	0.0812	mg/L	0.00254	0.0812	mg/L	0.00254	3.12%
Fe 238.204†	276046.9	63.81	mg/L	0.171	63.81	mg/L	0.171	0.27%
K 766.490†	3867.7	2.234	mg/L	0.0084	2.234	mg/L	0.0084	0.38%
Mg 285.213†	103470.8	10.53	mg/L	0.025	10.53	mg/L	0.025	0.24%
Mn 257.610†	40647.2	1.418	mg/L	0.0021	1.418	mg/L	0.0021	0.15%
Mo 202.031†	-120.3	-0.0011	mg/L	0.00014	-0.0011	mg/L	0.00014	13.35%
Na 589.592†	2459.7	0.2293	mg/L	0.00599	0.2293	mg/L	0.00599	2.61%
Ni 231.604†	2102.9	0.0611	mg/L	0.00170	0.0611	mg/L	0.00170	2.78%
Pb 220.353†	534.7	0.1098	mg/L	0.00352	0.1098	mg/L	0.00352	3.21%
Sb 206.836†	0.4	-0.0030	mg/L	0.00101	-0.0030	mg/L	0.00101	33.70%

Se 196.026†	-156.5	0.0077	mg/L	0.00634	0.0077	mg/L	0.00634 81.94%
Sn 189.927†	-416.2	-0.0511	mg/L	0.00283	-0.0511	mg/L	0.00283 5.54%
Ti 337.279†	3487.5	0.2098	mg/L	0.00289	0.2098	mg/L	0.00289 1.38%
Tl 351.924†	-4.1	0.0029	mg/L	0.00399	0.0029	mg/L	0.00399 135.55%
V 290.880†	4503.7	0.0515	mg/L	0.00211	0.0515	mg/L	0.00211 4.10%
Zn 206.200†	6567.1	0.2173	mg/L	0.00477	0.2173	mg/L	0.00477 2.19%
Zr 343.823†	2486.4	0.0114	mg/L	0.00041	0.0114	mg/L	0.00041 3.55%

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Batch ID: OPTIMA 3
Sequence No.: 22 **Autosampler Location: 47**
Sample ID: 24E1437-12@20X **Date Collected: 5/23/2024 6:59:33 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Rinse Time (before sample): 220

Mean Data: 24E1437-12@20X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	149483.7	98.6	%	2.44	98.6	%	2.44	2.47%
Y axial	2699749.6	100.0	%	1.06	100.0	%	1.06	1.06%
Ag 328.068†	-55.0	0.0008	mg/L	0.00030	0.0008	mg/L	0.00030	38.81%
Al 396.153†	77186.3	25.71	mg/L	0.063	25.71	mg/L	0.063	0.24%
As 188.979†	6.6	0.0161	mg/L	0.00215	0.0161	mg/L	0.00215	13.33%
B 208.889†	362.7	0.0423	mg/L	0.00076	0.0423	mg/L	0.00076	1.80%
Ba 233.527†	2463.7	0.5717	mg/L	0.01105	0.5717	mg/L	0.01105	1.93%
Be 313.107†	486.7	0.0018	mg/L	0.00010	0.0018	mg/L	0.00010	5.61%
Ca 317.933†	104829.4	17.69	mg/L	0.063	17.69	mg/L	0.063	0.35%
Cd 228.802†	202.9	0.0057	mg/L	0.00037	0.0057	mg/L	0.00037	6.44%
Co 228.616†	1072.8	0.0286	mg/L	0.00043	0.0286	mg/L	0.00043	1.50%
Cr 267.716†	13505.7	0.2210	mg/L	0.00397	0.2210	mg/L	0.00397	1.80%
Cu 327.393†	11926.0	0.0992	mg/L	0.00209	0.0992	mg/L	0.00209	2.11%
Fe 238.204†	261223.3	60.38	mg/L	0.215	60.38	mg/L	0.215	0.36%
K 766.490†	4526.2	2.617	mg/L	0.0247	2.617	mg/L	0.0247	0.94%
Mg 285.213†	98906.9	10.06	mg/L	0.025	10.06	mg/L	0.025	0.25%
Mn 257.610†	37586.0	1.311	mg/L	0.0241	1.311	mg/L	0.0241	1.84%
Mo 202.031†	-96.2	-0.0002	mg/L	0.00014	-0.0002	mg/L	0.00014	68.58%
Na 589.592†	2203.8	0.2054	mg/L	0.00766	0.2054	mg/L	0.00766	3.73%
Ni 231.604†	2481.3	0.0722	mg/L	0.00100	0.0722	mg/L	0.00100	1.38%
Pb 220.353†	28271.8	5.816	mg/L	0.0962	5.816	mg/L	0.0962	1.65%
Sb 206.836†	14.2	0.0001	mg/L	0.00207	0.0001	mg/L	0.00207	>999.9%
Se 196.026†	-141.6	0.0093	mg/L	0.00296	0.0093	mg/L	0.00296	31.92%
Sn 189.927†	-384.1	-0.0463	mg/L	0.00188	-0.0463	mg/L	0.00188	4.07%
Ti 337.279†	3107.2	0.1869	mg/L	0.00247	0.1869	mg/L	0.00247	1.32%
Tl 351.924†	9.7	0.0056	mg/L	0.01296	0.0056	mg/L	0.01296	230.67%
V 290.880†	3327.7	0.0378	mg/L	0.00182	0.0378	mg/L	0.00182	4.82%
Zn 206.200†	38605.7	1.294	mg/L	0.0220	1.294	mg/L	0.0220	1.70%
Zr 343.823†	2533.3	0.0117	mg/L	0.00046	0.0117	mg/L	0.00046	3.93%

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Batch ID: OPTIMA 3
Sequence No.: 23 **Autosampler Location: 5**
Sample ID: SEQ-CCV@ 23IJ0975 **Date Collected: 5/23/2024 7:07:20 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Rinse Time (before sample): 220

Mean Data: SEQ-CCV@ 23IJ0975

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	153373.7	101	%	1.61	101	%	1.61	1.59%
Y axial	2718251.4	101	%	0.49	101	%	0.49	0.48%
Ag 328.068†	165084.7	2.287	mg/L	0.0558	2.287	mg/L	0.0558	2.44%
QC value within limits for Ag 328.068 Recovery = 91.47%								
Al 396.153†	30673.9	9.987	mg/L	0.0335	9.987	mg/L	0.0335	0.34%
QC value within limits for Al 396.153 Recovery = 99.87%								

As 188.979†	7682.0	4.959 mg/L	0.0477	4.959 mg/L	0.0477	0.96%
QC value within limits for As 188.979 Recovery = 99.18%							
B 208.889†	43054.7	4.748 mg/L	0.0577	4.748 mg/L	0.0577	1.22%
QC value within limits for B 208.889 Recovery = 94.96%							
Ba 233.527†	21161.3	4.932 mg/L	0.1000	4.932 mg/L	0.1000	2.03%
QC value within limits for Ba 233.527 Recovery = 98.63%							
Be 313.107†	1265892.1	5.034 mg/L	0.1443	5.034 mg/L	0.1443	2.87%
QC value within limits for Be 313.107 Recovery = 100.68%							
Ca 317.933†	57689.6	9.741 mg/L	0.0380	9.741 mg/L	0.0380	0.39%
QC value within limits for Ca 317.933 Recovery = 97.41%							
Cd 228.802†	182874.4	5.049 mg/L	0.0030	5.049 mg/L	0.0030	0.06%
QC value within limits for Cd 228.802 Recovery = 100.98%							
Co 228.616†	188535.2	5.070 mg/L	0.0086	5.070 mg/L	0.0086	0.17%
QC value within limits for Co 228.616 Recovery = 101.39%							
Cr 267.716†	313508.6	5.087 mg/L	0.0022	5.087 mg/L	0.0022	0.04%
QC value within limits for Cr 267.716 Recovery = 101.74%							
Cu 327.393†	604674.0	4.927 mg/L	0.0018	4.927 mg/L	0.0018	0.04%
QC value within limits for Cu 327.393 Recovery = 98.54%							
Fe 238.204†	21245.5	4.956 mg/L	0.0146	4.956 mg/L	0.0146	0.30%
QC value within limits for Fe 238.204 Recovery = 99.11%							
K 766.490†	17311.0	10.05 mg/L	0.066	10.05 mg/L	0.066	0.66%
QC value within limits for K 766.490 Recovery = 100.49%							
Mg 285.213†	100076.5	10.14 mg/L	0.037	10.14 mg/L	0.037	0.37%
QC value within limits for Mg 285.213 Recovery = 101.42%							
Mn 257.610†	140801.9	4.908 mg/L	0.0103	4.908 mg/L	0.0103	0.21%
QC value within limits for Mn 257.610 Recovery = 98.16%							
Mo 202.031†	94191.7	4.933 mg/L	0.0064	4.933 mg/L	0.0064	0.13%
QC value within limits for Mo 202.031 Recovery = 98.66%							
Na 589.592†	107938.9	10.06 mg/L	0.039	10.06 mg/L	0.039	0.38%
QC value within limits for Na 589.592 Recovery = 100.62%							
Ni 231.604†	166709.8	4.856 mg/L	0.0008	4.856 mg/L	0.0008	0.02%
QC value within limits for Ni 231.604 Recovery = 97.13%							
Pb 220.353†	24209.2	4.987 mg/L	0.0591	4.987 mg/L	0.0591	1.18%
QC value within limits for Pb 220.353 Recovery = 99.73%							
Sb 206.836†	12228.4	5.041 mg/L	0.0661	5.041 mg/L	0.0661	1.31%
QC value within limits for Sb 206.836 Recovery = 100.81%							
Se 196.026†	11296.4	5.017 mg/L	0.0699	5.017 mg/L	0.0699	1.39%
QC value within limits for Se 196.026 Recovery = 100.35%							
Sn 189.927†	29696.7	5.104 mg/L	0.0571	5.104 mg/L	0.0571	1.12%
QC value within limits for Sn 189.927 Recovery = 102.07%							
Ti 337.279†	83215.9	5.007 mg/L	0.0136	5.007 mg/L	0.0136	0.27%
QC value within limits for Ti 337.279 Recovery = 100.13%							
Tl 351.924†	10419.8	2.600 mg/L	0.0289	2.600 mg/L	0.0289	1.11%
QC value within limits for Tl 351.924 Recovery = 103.98%							
V 290.880†	398506.0	5.133 mg/L	0.0033	5.133 mg/L	0.0033	0.06%
QC value within limits for V 290.880 Recovery = 102.66%							
Zn 206.200†	145736.3	4.942 mg/L	0.0091	4.942 mg/L	0.0091	0.18%
QC value within limits for Zn 206.200 Recovery = 98.84%							
Zr 343.823†	1062560.4	4.890 mg/L	0.0079	4.890 mg/L	0.0079	0.16%

All analyte(s) passed QC.

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Batch ID: OPTIMA 3
Sequence No.: 24 **Autosampler Location: 1**
Sample ID: SEQ-CCB@ 23J0970 **Date Collected: 5/23/2024 7:13:16 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Rinse Time (before sample): 220

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	142088.6	93.7	%	0.76	93.7	%	0.76	0.82%
Y axial	2672253.0	99.0	%	1.86	99.0	%	1.86	1.88%
Ag 328.068†	362.4	0.0050	mg/L	0.00058	0.0050	mg/L	0.00058	11.49%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	-9.0	-0.0031	mg/L	0.01414	-0.0031	mg/L	0.01414	463.58%
QC value within limits for Al 396.153 Recovery = Not calculated								

As 188.979†	-1.5	-0.0010 mg/L	0.00229	-0.0010 mg/L	0.00229	236.03%
QC value within limits for As 188.979 Recovery = Not calculated						
B 208.889†	343.8	0.0398 mg/L	0.00181	0.0398 mg/L	0.00181	4.54%
QC value within limits for B 208.889 Recovery = Not calculated						
Ba 233.527†	3.7	0.0009 mg/L	0.00088	0.0009 mg/L	0.00088	102.63%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	39.0	0.0002 mg/L	0.00005	0.0002 mg/L	0.00005	28.06%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933†	45.1	0.0076 mg/L	0.00218	0.0076 mg/L	0.00218	28.64%
QC value within limits for Ca 317.933 Recovery = Not calculated						
Cd 228.802†	11.5	0.0003 mg/L	0.00022	0.0003 mg/L	0.00022	64.53%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	41.0	0.0011 mg/L	0.00019	0.0011 mg/L	0.00019	17.11%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-31.5	-0.0005 mg/L	0.00006	-0.0005 mg/L	0.00006	11.35%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 327.393†	949.4	0.0077 mg/L	0.00009	0.0077 mg/L	0.00009	1.20%
QC value within limits for Cu 327.393 Recovery = Not calculated						
Fe 238.204†	-0.9	-0.0002 mg/L	0.00103	-0.0002 mg/L	0.00103	495.64%
QC value within limits for Fe 238.204 Recovery = Not calculated						
K 766.490†	181.7	0.1055 mg/L	0.03580	0.1055 mg/L	0.03580	33.93%
QC value within limits for K 766.490 Recovery = Not calculated						
Mg 285.213†	4.2	0.0004 mg/L	0.00142	0.0004 mg/L	0.00142	340.70%
QC value within limits for Mg 285.213 Recovery = Not calculated						
Mn 257.610†	-7.7	-0.0003 mg/L	0.00022	-0.0003 mg/L	0.00022	83.19%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	24.9	0.0013 mg/L	0.00021	0.0013 mg/L	0.00021	15.96%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592†	691.5	0.0645 mg/L	0.00066	0.0645 mg/L	0.00066	1.03%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	35.3	0.0010 mg/L	0.00027	0.0010 mg/L	0.00027	26.41%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	-1.9	-0.0004 mg/L	0.00066	-0.0004 mg/L	0.00066	168.33%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	3.3	0.0014 mg/L	0.00298	0.0014 mg/L	0.00298	218.81%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	11.2	0.0050 mg/L	0.00160	0.0050 mg/L	0.00160	32.14%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	0.9	0.0001 mg/L	0.00034	0.0001 mg/L	0.00034	228.21%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	-55.8	-0.0034 mg/L	0.00223	-0.0034 mg/L	0.00223	66.53%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 351.924†	38.0	0.0094 mg/L	0.01038	0.0094 mg/L	0.01038	109.84%
QC value within limits for Tl 351.924 Recovery = Not calculated						
V 290.880†	-153.9	-0.0019 mg/L	0.00054	-0.0019 mg/L	0.00054	28.12%
QC value within limits for V 290.880 Recovery = Not calculated						
Zn 206.200†	39.3	0.0013 mg/L	0.00033	0.0013 mg/L	0.00033	25.03%
QC value within limits for Zn 206.200 Recovery = Not calculated						
Zr 343.823†	-11.9	-0.0001 mg/L	0.00019	-0.0001 mg/L	0.00019	341.42%

All analyte(s) passed QC.

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Batch ID: OPTIMA 3
Sequence No.: 25 **Autosampler Location: 48**
Sample ID: B374918-BLK1 **Date Collected: 5/23/2024 7:21:01 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Rinse Time (before sample): 220

Mean Data: B374918-BLK1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	147629.8	97.3	%	1.49	97.3	%	1.49	1.53%
Y axial	2641883.8	97.8	%	1.91	97.8	%	1.91	1.95%
Ag 328.068†	87.6	0.0012	mg/L	0.00028	0.0012	mg/L	0.00028	22.96%
Al 396.153†	29.6	0.0098	mg/L	0.01463	0.0098	mg/L	0.01463	149.19%
As 188.979†	1.2	0.0008	mg/L	0.00121	0.0008	mg/L	0.00121	154.33%
B 208.889†	309.4	0.0358	mg/L	0.00187	0.0358	mg/L	0.00187	5.22%

Ba 233.527†	5.4	0.0012 mg/L	0.00082	0.0012 mg/L	0.00082	65.71%
Be 313.107†	31.3	0.0001 mg/L	0.00005	0.0001 mg/L	0.00005	37.97%
Ca 317.933†	286.2	0.0483 mg/L	0.00098	0.0483 mg/L	0.00098	2.03%
Cd 228.802†	15.3	0.0004 mg/L	0.00006	0.0004 mg/L	0.00006	13.60%
Co 228.616†	39.4	0.0011 mg/L	0.00037	0.0011 mg/L	0.00037	34.50%
Cr 267.716†	-15.9	-0.0003 mg/L	0.00021	-0.0003 mg/L	0.00021	81.59%
Cu 327.393†	1158.9	0.0094 mg/L	0.00040	0.0094 mg/L	0.00040	4.21%
Fe 238.204†	83.2	0.0192 mg/L	0.00206	0.0192 mg/L	0.00206	10.71%
K 766.490†	102.2	0.0593 mg/L	0.05685	0.0593 mg/L	0.05685	95.85%
Mg 285.213†	26.8	0.0027 mg/L	0.00052	0.0027 mg/L	0.00052	18.99%
Mn 257.610†	18.8	0.0007 mg/L	0.00046	0.0007 mg/L	0.00046	70.65%
Mo 202.031†	13.8	0.0007 mg/L	0.00039	0.0007 mg/L	0.00039	54.06%
Na 589.592†	1256.6	0.1171 mg/L	0.00263	0.1171 mg/L	0.00263	2.25%
Ni 231.604†	49.5	0.0014 mg/L	0.00031	0.0014 mg/L	0.00031	21.17%
Pb 220.353†	-4.8	-0.0010 mg/L	0.00121	-0.0010 mg/L	0.00121	122.61%
Sb 206.836†	3.9	0.0016 mg/L	0.00219	0.0016 mg/L	0.00219	140.81%
Se 196.026†	15.8	0.0070 mg/L	0.00087	0.0070 mg/L	0.00087	12.38%
Sn 189.927†	1.7	0.0003 mg/L	0.00106	0.0003 mg/L	0.00106	363.32%
Ti 337.279†	-20.5	-0.0012 mg/L	0.00113	-0.0012 mg/L	0.00113	91.94%
Tl 351.924†	12.3	0.0031 mg/L	0.01081	0.0031 mg/L	0.01081	350.43%
V 290.880†	-118.9	-0.0015 mg/L	0.00062	-0.0015 mg/L	0.00062	41.69%
Zn 206.200†	101.1	0.0034 mg/L	0.00010	0.0034 mg/L	0.00010	3.06%
Zr 343.823†	58.7	0.0003 mg/L	0.00014	0.0003 mg/L	0.00014	53.18%

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Batch ID: OPTIMA 3
Sequence No.: 26 **Autosampler Location: 49**
Sample ID: B374918-BS1 **Date Collected: 5/23/2024 7:28:48 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Rinse Time (before sample): 220

Mean Data: B374918-BS1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	144855.6	95.5	%	2.43	95.5	%	2.43	2.55%
Y axial	2619218.5	97.0	%	2.03	97.0	%	2.03	2.09%
Ag 328.068†	41575.6	0.5760	mg/L	0.02935	0.5760	mg/L	0.02935	5.10%
Al 396.153†	1587.2	0.5047	mg/L	0.01452	0.5047	mg/L	0.01452	2.88%
As 188.979†	773.8	0.5000	mg/L	0.01016	0.5000	mg/L	0.01016	2.03%
B 208.889†	9130.4	1.033	mg/L	0.0202	1.033	mg/L	0.0202	1.95%
Ba 233.527†	2197.2	0.5119	mg/L	0.01270	0.5119	mg/L	0.01270	2.48%
Be 313.107†	136749.4	0.5439	mg/L	0.00245	0.5439	mg/L	0.00245	0.45%
Ca 317.933†	23656.1	3.994	mg/L	0.1257	3.994	mg/L	0.1257	3.15%
Cd 228.802†	19162.4	0.5293	mg/L	0.01058	0.5293	mg/L	0.01058	2.00%
Co 228.616†	19631.0	0.5279	mg/L	0.01123	0.5279	mg/L	0.01123	2.13%
Cr 267.716†	32688.4	0.5305	mg/L	0.01257	0.5305	mg/L	0.01257	2.37%
Cu 327.393†	124921.9	1.017	mg/L	0.0260	1.017	mg/L	0.0260	2.56%
Fe 238.204†	18215.7	4.215	mg/L	0.1278	4.215	mg/L	0.1278	3.03%
K 766.490†	7269.4	4.219	mg/L	0.0874	4.219	mg/L	0.0874	2.07%
Mg 285.213†	41357.6	4.192	mg/L	0.1203	4.192	mg/L	0.1203	2.87%
Mn 257.610†	14770.7	0.5149	mg/L	0.01559	0.5149	mg/L	0.01559	3.03%
Mo 202.031†	9693.5	0.5079	mg/L	0.01220	0.5079	mg/L	0.01220	2.40%
Na 589.592†	46132.6	4.300	mg/L	0.0036	4.300	mg/L	0.0036	0.08%
Ni 231.604†	17041.0	0.4964	mg/L	0.01235	0.4964	mg/L	0.01235	2.49%
Pb 220.353†	2542.7	0.5233	mg/L	0.00966	0.5233	mg/L	0.00966	1.85%
Sb 206.836†	1309.8	0.5393	mg/L	0.01328	0.5393	mg/L	0.01328	2.46%
Se 196.026†	1192.5	0.5339	mg/L	0.01539	0.5339	mg/L	0.01539	2.88%
Sn 189.927†	2948.9	0.5129	mg/L	0.01184	0.5129	mg/L	0.01184	2.31%
Ti 337.279†	8616.2	0.5184	mg/L	0.01440	0.5184	mg/L	0.01440	2.78%
Tl 351.924†	2203.5	0.5476	mg/L	0.01104	0.5476	mg/L	0.01104	2.02%
V 290.880†	41340.7	0.5320	mg/L	0.01297	0.5320	mg/L	0.01297	2.44%
Zn 206.200†	29913.2	1.009	mg/L	0.0276	1.009	mg/L	0.0276	2.74%
Zr 343.823†	141.7	0.0007	mg/L	0.00017	0.0007	mg/L	0.00017	25.58%

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Batch ID: OPTIMA 3
Sequence No.: 27 **Autosampler Location: 50**

Sample ID: B374918-BSD1
Analyst:
Initial Sample Wt:
Dilution:
Rinse Time (before sample): 220

Date Collected: 5/23/2024 7:36:37 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: B374918-BSD1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	141136.1	93.1	%	0.58	93.1	%	0.58	0.62%
Y axial	2576574.2	95.4	%	0.95	95.4	%	0.95	1.00%
Ag 328.068†	41555.9	0.5757	mg/L	0.00860	0.5757	mg/L	0.00860	1.49%
Al 396.153†	1610.7	0.5125	mg/L	0.00585	0.5125	mg/L	0.00585	1.14%
As 188.979†	778.7	0.5032	mg/L	0.00684	0.5032	mg/L	0.00684	1.36%
B 208.889†	9186.0	1.039	mg/L	0.0164	1.039	mg/L	0.0164	1.58%
Ba 233.527†	2204.1	0.5135	mg/L	0.00643	0.5135	mg/L	0.00643	1.25%
Be 313.107†	136509.0	0.5429	mg/L	0.00137	0.5429	mg/L	0.00137	0.25%
Ca 317.933†	23979.1	4.048	mg/L	0.0295	4.048	mg/L	0.0295	0.73%
Cd 228.802†	19152.6	0.5290	mg/L	0.00799	0.5290	mg/L	0.00799	1.51%
Co 228.616†	19518.5	0.5248	mg/L	0.00678	0.5248	mg/L	0.00678	1.29%
Cr 267.716†	32662.9	0.5301	mg/L	0.00713	0.5301	mg/L	0.00713	1.34%
Cu 327.393†	125034.5	1.018	mg/L	0.0115	1.018	mg/L	0.0115	1.13%
Fe 238.204†	18504.6	4.282	mg/L	0.0262	4.282	mg/L	0.0262	0.61%
K 766.490†	7312.2	4.244	mg/L	0.0888	4.244	mg/L	0.0888	2.09%
Mg 285.213†	42127.5	4.270	mg/L	0.0206	4.270	mg/L	0.0206	0.48%
Mn 257.610†	14972.7	0.5220	mg/L	0.00359	0.5220	mg/L	0.00359	0.69%
Mo 202.031†	9693.8	0.5079	mg/L	0.00721	0.5079	mg/L	0.00721	1.42%
Na 589.592†	46021.2	4.290	mg/L	0.0057	4.290	mg/L	0.0057	0.13%
Ni 231.604†	16915.6	0.4927	mg/L	0.00472	0.4927	mg/L	0.00472	0.96%
Pb 220.353†	2540.1	0.5227	mg/L	0.00799	0.5227	mg/L	0.00799	1.53%
Sb 206.836†	1315.1	0.5415	mg/L	0.00810	0.5415	mg/L	0.00810	1.49%
Se 196.026†	1191.4	0.5335	mg/L	0.01137	0.5335	mg/L	0.01137	2.13%
Sn 189.927†	2952.5	0.5137	mg/L	0.00935	0.5137	mg/L	0.00935	1.82%
Ti 337.279†	8733.7	0.5255	mg/L	0.00204	0.5255	mg/L	0.00204	0.39%
Tl 351.924†	2212.8	0.5499	mg/L	0.01011	0.5499	mg/L	0.01011	1.84%
V 290.880†	41284.1	0.5313	mg/L	0.00812	0.5313	mg/L	0.00812	1.53%
Zn 206.200†	29711.3	1.002	mg/L	0.0126	1.002	mg/L	0.0126	1.26%
Zr 343.823†	37.0	0.0002	mg/L	0.00005	0.0002	mg/L	0.00005	26.88%

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Batch ID: OPTIMA 3
Sequence No.: 28
Sample ID: B374918-MS1
Analyst:
Initial Sample Wt:
Dilution:
Rinse Time (before sample): 220

Autosampler Location: 51
Date Collected: 5/23/2024 7:44:24 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: B374918-MS1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	143647.6	94.7	%	4.32	94.7	%	4.32	4.56%
Y axial	2738517.5	101	%	1.07	101	%	1.07	1.06%
Ag 328.068†	41762.1	0.5786	mg/L	0.00981	0.5786	mg/L	0.00981	1.69%
Al 396.153†	1701.5	0.5394	mg/L	0.00570	0.5394	mg/L	0.00570	1.06%
As 188.979†	806.3	0.5213	mg/L	0.00495	0.5213	mg/L	0.00495	0.95%
B 208.889†	9362.6	1.060	mg/L	0.0057	1.060	mg/L	0.0057	0.54%
Ba 233.527†	2264.8	0.5276	mg/L	0.01684	0.5276	mg/L	0.01684	3.19%
Be 313.107†	136826.1	0.5442	mg/L	0.00401	0.5442	mg/L	0.00401	0.74%
Ca 317.933†	139538.4	23.56	mg/L	0.147	23.56	mg/L	0.147	0.62%
Cd 228.802†	19256.8	0.5316	mg/L	0.01475	0.5316	mg/L	0.01475	2.77%
Co 228.616†	19219.0	0.5168	mg/L	0.01523	0.5168	mg/L	0.01523	2.95%
Cr 267.716†	32827.4	0.5329	mg/L	0.01408	0.5329	mg/L	0.01408	2.64%
Cu 327.393†	134067.0	1.092	mg/L	0.0279	1.092	mg/L	0.0279	2.56%
Fe 238.204†	25613.5	5.925	mg/L	0.0659	5.925	mg/L	0.0659	1.11%
K 766.490†	12453.0	7.228	mg/L	0.0124	7.228	mg/L	0.0124	0.17%
Mg 285.213†	82595.3	8.365	mg/L	0.0199	8.365	mg/L	0.0199	0.24%
Mn 257.610†	15224.4	0.5308	mg/L	0.00623	0.5308	mg/L	0.00623	1.17%

Mo 202.031†	9702.4	0.5080 mg/L	0.00326	0.5080 mg/L	0.00326	0.64%
Na 589.592†	2617275.0	244.0 mg/L	1.86	244.0 mg/L	1.86	0.76%
Ni 231.604†	16488.7	0.4803 mg/L	0.01456	0.4803 mg/L	0.01456	3.03%
Pb 220.353†	2487.2	0.5120 mg/L	0.00157	0.5120 mg/L	0.00157	0.31%
Sb 206.836†	1309.7	0.5388 mg/L	0.00109	0.5388 mg/L	0.00109	0.20%
Se 196.026†	1193.2	0.5355 mg/L	0.00491	0.5355 mg/L	0.00491	0.92%
Sn 189.927†	2727.0	0.4835 mg/L	0.00174	0.4835 mg/L	0.00174	0.36%
Ti 337.279†	8897.8	0.5353 mg/L	0.00766	0.5353 mg/L	0.00766	1.43%
Tl 351.924†	2213.8	0.5497 mg/L	0.00238	0.5497 mg/L	0.00238	0.43%
V 290.880†	41804.8	0.5375 mg/L	0.01448	0.5375 mg/L	0.01448	2.69%
Zn 206.200†	30955.7	1.023 mg/L	0.0300	1.023 mg/L	0.0300	2.94%
Zr 343.823†	46.9	0.0002 mg/L	0.00007	0.0002 mg/L	0.00007	32.47%

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Batch ID: OPTIMA 3
Sequence No.: 29 **Autosampler Location: 52**
Sample ID: B374918-DUP1 **Date Collected: 5/23/2024 7:52:18 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Rinse Time (before sample): 220

Mean Data: B374918-DUP1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	152991.5	101	%	0.76	101	%	0.76	0.75%
Y axial	2723650.1	101	%	1.60	101	%	1.60	1.59%
Ag 328.068†	60.1	0.0009	mg/L	0.00148	0.0009	mg/L	0.00148	168.79%
Al 396.153†	18.7	0.0028	mg/L	0.01267	0.0028	mg/L	0.01267	459.81%
As 188.979†	4.4	0.0031	mg/L	0.00188	0.0031	mg/L	0.00188	60.69%
B 208.889†	584.1	0.0675	mg/L	0.00196	0.0675	mg/L	0.00196	2.91%
Ba 233.527†	152.0	0.0354	mg/L	0.00075	0.0354	mg/L	0.00075	2.13%
Be 313.107†	12.8	0.0000	mg/L	0.00001	0.0000	mg/L	0.00001	26.96%
Ca 317.933†	120171.4	20.29	mg/L	0.051	20.29	mg/L	0.051	0.25%
Cd 228.802†	14.0	0.0004	mg/L	0.00012	0.0004	mg/L	0.00012	32.86%
Co 228.616†	58.3	0.0016	mg/L	0.00029	0.0016	mg/L	0.00029	18.21%
Cr 267.716†	-11.6	-0.0001	mg/L	0.00019	-0.0001	mg/L	0.00019	146.54%
Cu 327.393†	1937.7	0.0158	mg/L	0.00086	0.0158	mg/L	0.00086	5.41%
Fe 238.204†	6985.6	1.615	mg/L	0.0077	1.615	mg/L	0.0077	0.48%
K 766.490†	5233.6	3.038	mg/L	0.0632	3.038	mg/L	0.0632	2.08%
Mg 285.213†	42543.5	4.305	mg/L	0.0083	4.305	mg/L	0.0083	0.19%
Mn 257.610†	307.2	0.0107	mg/L	0.00019	0.0107	mg/L	0.00019	1.77%
Mo 202.031†	45.5	0.0020	mg/L	0.00031	0.0020	mg/L	0.00031	15.79%
Na 589.592†	2609379.1	243.2	mg/L	3.28	243.2	mg/L	3.28	1.35%
Ni 231.604†	85.1	0.0025	mg/L	0.00041	0.0025	mg/L	0.00041	16.35%
Pb 220.353†	-10.9	-0.0020	mg/L	0.00171	-0.0020	mg/L	0.00171	83.66%
Sb 206.836†	9.0	0.0033	mg/L	0.00079	0.0033	mg/L	0.00079	23.57%
Se 196.026†	5.0	0.0034	mg/L	0.00357	0.0034	mg/L	0.00357	106.45%
Sn 189.927†	-190.8	-0.0238	mg/L	0.00097	-0.0238	mg/L	0.00097	4.07%
Ti 337.279†	-8.7	-0.0005	mg/L	0.00013	-0.0005	mg/L	0.00013	24.56%
Tl 351.924†	31.1	0.0073	mg/L	0.00673	0.0073	mg/L	0.00673	92.18%
V 290.880†	40.9	0.0002	mg/L	0.00082	0.0002	mg/L	0.00082	344.42%
Zn 206.200†	170.4	-0.0156	mg/L	0.00046	-0.0156	mg/L	0.00046	2.95%
Zr 343.823†	-27.0	-0.0001	mg/L	0.00021	-0.0001	mg/L	0.00021	167.30%

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Batch ID: OPTIMA 3
Sequence No.: 30 **Autosampler Location: 53**
Sample ID: 24E2193-01 **Date Collected: 5/23/2024 8:00:12 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Rinse Time (before sample): 220

Mean Data: 24E2193-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	162057.5	107	%	1.33	107	%	1.33	1.25%

Y axial	2824383.2	105 %	0.47	105 %	0.47	0.45%
Ag 328.068†	111.9	0.0016 mg/L	0.00049	0.0016 mg/L	0.00049	30.79%
Al 396.153†	36.0	0.0086 mg/L	0.01742	0.0086 mg/L	0.01742	203.45%
As 188.979†	9.9	0.0066 mg/L	0.00444	0.0066 mg/L	0.00444	67.14%
B 208.889†	523.7	0.0606 mg/L	0.00100	0.0606 mg/L	0.00100	1.65%
Ba 233.527†	149.4	0.0348 mg/L	0.00099	0.0348 mg/L	0.00099	2.86%
Be 313.107†	-39.9	-0.0002 mg/L	0.00005	-0.0002 mg/L	0.00005	30.59%
Ca 317.933†	119806.2	20.23 mg/L	0.033	20.23 mg/L	0.033	0.17%
Cd 228.802†	12.9	0.0003 mg/L	0.00020	0.0003 mg/L	0.00020	70.40%
Co 228.616†	59.3	0.0016 mg/L	0.00024	0.0016 mg/L	0.00024	14.71%
Cr 267.716†	-26.0	-0.0004 mg/L	0.00011	-0.0004 mg/L	0.00011	28.83%
Cu 327.393†	1792.3	0.0146 mg/L	0.00020	0.0146 mg/L	0.00020	1.36%
Fe 238.204†	6691.7	1.547 mg/L	0.0250	1.547 mg/L	0.0250	1.62%
K 766.490†	5130.0	2.978 mg/L	0.0478	2.978 mg/L	0.0478	1.61%
Mg 285.213†	42012.1	4.251 mg/L	0.0203	4.251 mg/L	0.0203	0.48%
Mn 257.610†	325.9	0.0114 mg/L	0.00022	0.0114 mg/L	0.00022	1.92%
Mo 202.031†	29.1	0.0011 mg/L	0.00006	0.0011 mg/L	0.00006	5.50%
Na 589.592†	2519744.4	234.9 mg/L	4.09	234.9 mg/L	4.09	1.74%
Ni 231.604†	78.7	0.0023 mg/L	0.00022	0.0023 mg/L	0.00022	9.71%
Pb 220.353†	-12.4	-0.0024 mg/L	0.00087	-0.0024 mg/L	0.00087	36.84%
Sb 206.836†	-0.4	-0.0005 mg/L	0.00266	-0.0005 mg/L	0.00266	495.17%
Se 196.026†	4.9	0.0033 mg/L	0.00126	0.0033 mg/L	0.00126	38.71%
Sn 189.927†	-190.2	-0.0238 mg/L	0.00032	-0.0238 mg/L	0.00032	1.36%
Ti 337.279†	3.4	0.0002 mg/L	0.00067	0.0002 mg/L	0.00067	330.14%
Tl 351.924†	36.5	0.0086 mg/L	0.01469	0.0086 mg/L	0.01469	170.36%
V 290.880†	50.2	0.0003 mg/L	0.00116	0.0003 mg/L	0.00116	342.10%
Zn 206.200†	175.9	-0.0146 mg/L	0.00015	-0.0146 mg/L	0.00015	1.06%
Zr 343.823†	6.3	0.0000 mg/L	0.00033	0.0000 mg/L	0.00033	>999.9%

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Batch ID: OPTIMA 3
Sequence No.: 31 **Autosampler Location: 54**
Sample ID: 24E2193-02 **Date Collected: 5/23/2024 8:08:05 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Rinse Time (before sample): 220

Mean Data: 24E2193-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	165871.5	109	%	1.75	109	%	1.75	1.60%
Y axial	2953116.3	109	%	2.37	109	%	2.37	2.17%
Ag 328.068†	29.3	0.0004	mg/L	0.00019	0.0004	mg/L	0.00019	46.55%
Al 396.153†	40.7	0.0091	mg/L	0.00429	0.0091	mg/L	0.00429	47.16%
As 188.979†	10.3	0.0069	mg/L	0.00469	0.0069	mg/L	0.00469	68.06%
B 208.889†	877.1	0.1015	mg/L	0.00217	0.1015	mg/L	0.00217	2.14%
Ba 233.527†	223.7	0.0521	mg/L	0.00079	0.0521	mg/L	0.00079	1.51%
Be 313.107†	-44.3	-0.0002	mg/L	0.00005	-0.0002	mg/L	0.00005	30.70%
Ca 317.933†	154792.3	26.14	mg/L	0.102	26.14	mg/L	0.102	0.39%
Cd 228.802†	12.5	0.0003	mg/L	0.00012	0.0003	mg/L	0.00012	42.44%
Co 228.616†	72.8	0.0020	mg/L	0.00035	0.0020	mg/L	0.00035	17.87%
Cr 267.716†	-15.6	-0.0003	mg/L	0.00022	-0.0003	mg/L	0.00022	82.41%
Cu 327.393†	1585.1	0.0129	mg/L	0.00095	0.0129	mg/L	0.00095	7.33%
Fe 238.204†	7796.5	1.802	mg/L	0.0032	1.802	mg/L	0.0032	0.18%
K 766.490†	6998.4	4.063	mg/L	0.1033	4.063	mg/L	0.1033	2.54%
Mg 285.213†	57567.6	5.825	mg/L	0.0166	5.825	mg/L	0.0166	0.28%
Mn 257.610†	7493.9	0.2612	mg/L	0.00715	0.2612	mg/L	0.00715	2.74%
Mo 202.031†	33.1	0.0012	mg/L	0.00025	0.0012	mg/L	0.00025	20.90%
Na 589.592†	1753735.9	163.5	mg/L	1.67	163.5	mg/L	1.67	1.02%
Ni 231.604†	69.0	0.0020	mg/L	0.00022	0.0020	mg/L	0.00022	11.14%
Pb 220.353†	-8.7	-0.0016	mg/L	0.00228	-0.0016	mg/L	0.00228	144.56%
Sb 206.836†	-6.1	-0.0030	mg/L	0.00167	-0.0030	mg/L	0.00167	56.30%
Se 196.026†	0.4	0.0012	mg/L	0.00172	0.0012	mg/L	0.00172	148.58%
Sn 189.927†	-250.9	-0.0310	mg/L	0.00062	-0.0310	mg/L	0.00062	1.99%
Ti 337.279†	8.0	0.0005	mg/L	0.00052	0.0005	mg/L	0.00052	107.68%
Tl 351.924†	27.7	0.0063	mg/L	0.00244	0.0063	mg/L	0.00244	38.42%
V 290.880†	-1.7	-0.0004	mg/L	0.00078	-0.0004	mg/L	0.00078	194.04%
Zn 206.200†	234.4	-0.0065	mg/L	0.00012	-0.0065	mg/L	0.00012	1.87%

Zr 343.823†	-52.2	-0.0002	mg/L	0.00014	-0.0002	mg/L	0.00014 57.00%

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Batch ID: OPTIMA 3
Sequence No.: 32 **Autosampler Location: 55**
Sample ID: 24E2193-03 **Date Collected: 5/23/2024 8:15:58 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Rinse Time (before sample): 220

Mean Data: 24E2193-03

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	161524.7	106	%	2.45	106	%	2.45	2.30%
Y axial	2847293.8	105	%	0.82	105	%	0.82	0.78%
Ag 328.068†	10.5	0.0002	mg/L	0.00055	0.0002	mg/L	0.00055	336.11%
Al 396.153†	255.9	0.0792	mg/L	0.00731	0.0792	mg/L	0.00731	9.22%
As 188.979†	15.5	0.0110	mg/L	0.00214	0.0110	mg/L	0.00214	19.53%
B 208.889†	545.5	0.0630	mg/L	0.00066	0.0630	mg/L	0.00066	1.05%
Ba 233.527†	362.4	0.0842	mg/L	0.00036	0.0842	mg/L	0.00036	0.43%
Be 313.107†	-28.1	-0.0001	mg/L	0.00002	-0.0001	mg/L	0.00002	19.81%
Ca 317.933†	212217.2	35.84	mg/L	0.077	35.84	mg/L	0.077	0.22%
Cd 228.802†	12.8	0.0002	mg/L	0.00010	0.0002	mg/L	0.00010	40.00%
Co 228.616†	114.0	0.0031	mg/L	0.00024	0.0031	mg/L	0.00024	7.77%
Cr 267.716†	75.4	0.0012	mg/L	0.00028	0.0012	mg/L	0.00028	23.83%
Cu 327.393†	1746.3	0.0144	mg/L	0.00019	0.0144	mg/L	0.00019	1.29%
Fe 238.204†	27545.2	6.367	mg/L	0.0048	6.367	mg/L	0.0048	0.08%
K 766.490†	18465.8	10.72	mg/L	0.074	10.72	mg/L	0.074	0.69%
Mg 285.213†	46587.7	4.714	mg/L	0.0188	4.714	mg/L	0.0188	0.40%
Mn 257.610†	24140.7	0.8413	mg/L	0.00344	0.8413	mg/L	0.00344	0.41%
Mo 202.031†	78.6	0.0037	mg/L	0.00052	0.0037	mg/L	0.00052	13.94%
Na 589.592†	3277258.3	305.5	mg/L	9.72	305.5	mg/L	9.72	3.18%
Ni 231.604†	117.1	0.0033	mg/L	0.00018	0.0033	mg/L	0.00018	5.36%
Pb 220.353†	-12.5	-0.0025	mg/L	0.00053	-0.0025	mg/L	0.00053	21.12%
Sb 206.836†	3.3	0.0009	mg/L	0.00212	0.0009	mg/L	0.00212	242.37%
Se 196.026†	-9.5	0.0015	mg/L	0.00495	0.0015	mg/L	0.00495	340.72%
Sn 189.927†	-218.3	-0.0272	mg/L	0.00047	-0.0272	mg/L	0.00047	1.73%
Ti 337.279†	47.2	0.0028	mg/L	0.00034	0.0028	mg/L	0.00034	12.02%
Tl 351.924†	-1.3	-0.0010	mg/L	0.00930	-0.0010	mg/L	0.00930	957.12%
V 290.880†	135.5	0.0011	mg/L	0.00061	0.0011	mg/L	0.00061	54.53%
Zn 206.200†	293.3	-0.0172	mg/L	0.00076	-0.0172	mg/L	0.00076	4.38%
Zr 343.823†	100.2	0.0005	mg/L	0.00008	0.0005	mg/L	0.00008	16.42%

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Batch ID: OPTIMA 3
Sequence No.: 33 **Autosampler Location: 56**
Sample ID: 24E2193-04 **Date Collected: 5/23/2024 8:23:51 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Rinse Time (before sample): 220

Mean Data: 24E2193-04

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	163864.4	108	%	1.41	108	%	1.41	1.31%
Y axial	2923268.7	108	%	1.32	108	%	1.32	1.22%
Ag 328.068†	31.4	0.0004	mg/L	0.00076	0.0004	mg/L	0.00076	171.59%
Al 396.153†	211.9	0.0698	mg/L	0.00377	0.0698	mg/L	0.00377	5.40%
As 188.979†	12.7	0.0083	mg/L	0.00224	0.0083	mg/L	0.00224	27.08%
B 208.889†	280.2	0.0324	mg/L	0.00085	0.0324	mg/L	0.00085	2.62%
Ba 233.527†	87.5	0.0204	mg/L	0.00088	0.0204	mg/L	0.00088	4.31%
Be 313.107†	-57.0	-0.0002	mg/L	0.00002	-0.0002	mg/L	0.00002	10.42%
Ca 317.933†	27240.0	4.600	mg/L	0.0093	4.600	mg/L	0.0093	0.20%
Cd 228.802†	5.1	0.0001	mg/L	0.00022	0.0001	mg/L	0.00022	446.18%
Co 228.616†	62.2	0.0017	mg/L	0.00007	0.0017	mg/L	0.00007	4.46%
Cr 267.716†	-13.4	-0.0002	mg/L	0.00010	-0.0002	mg/L	0.00010	48.25%

Cu 327.393†	1262.7	0.0103 mg/L	0.00008	0.0103 mg/L	0.00008	0.79%
Fe 238.204†	2474.8	0.5721 mg/L	0.00431	0.5721 mg/L	0.00431	0.75%
K 766.490†	5323.2	3.090 mg/L	0.0122	3.090 mg/L	0.0122	0.39%
Mg 285.213†	10045.3	1.017 mg/L	0.0054	1.017 mg/L	0.0054	0.53%
Mn 257.610†	1567.2	0.0546 mg/L	0.00020	0.0546 mg/L	0.00020	0.36%
Mo 202.031†	14.7	0.0007 mg/L	0.00032	0.0007 mg/L	0.00032	45.42%
Na 589.592†	813305.7	75.82 mg/L	0.725	75.82 mg/L	0.725	0.96%
Ni 231.604†	77.7	0.0023 mg/L	0.00037	0.0023 mg/L	0.00037	16.53%
Pb 220.353†	-16.8	-0.0034 mg/L	0.00038	-0.0034 mg/L	0.00038	11.19%
Sb 206.836†	2.9	0.0011 mg/L	0.00218	0.0011 mg/L	0.00218	204.88%
Se 196.026†	16.4	0.0078 mg/L	0.00057	0.0078 mg/L	0.00057	7.40%
Sn 189.927†	-43.1	-0.0053 mg/L	0.00099	-0.0053 mg/L	0.00099	18.73%
Ti 337.279†	15.6	0.0009 mg/L	0.00043	0.0009 mg/L	0.00043	46.22%
Tl 351.924†	12.4	0.0030 mg/L	0.01451	0.0030 mg/L	0.01451	479.94%
V 290.880†	-35.7	-0.0005 mg/L	0.00036	-0.0005 mg/L	0.00036	68.97%
Zn 206.200†	317.0	0.0040 mg/L	0.00004	0.0040 mg/L	0.00004	0.99%
Zr 343.823†	19.2	0.0001 mg/L	0.00025	0.0001 mg/L	0.00025	285.83%

Batch ID: OPTIMA 3
Sequence No.: 34
Sample ID: 24E1460-01@10X
Analyst:
Initial Sample Wt:
Dilution:
Rinse Time (before sample): 220

Autosampler Location: 57
Date Collected: 5/23/2024 8:31:45 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 24E1460-01@10X

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	163067.2	108	%	0.38	108	%	0.38	0.35%
Y axial	2979907.2	110	%	0.91	110	%	0.91	0.83%
Ag 328.068†	46.6	0.0003	mg/L	0.00034	0.0003	mg/L	0.00034	122.20%
Al 396.153†	8198.5	2.731	mg/L	0.0161	2.731	mg/L	0.0161	0.59%
As 188.979†	2.3	0.0043	mg/L	0.00448	0.0043	mg/L	0.00448	103.69%
B 208.889†	173.3	0.0198	mg/L	0.00087	0.0198	mg/L	0.00087	4.40%
Ba 233.527†	186.9	0.0429	mg/L	0.00047	0.0429	mg/L	0.00047	1.09%
Be 313.107†	57.0	0.0002	mg/L	0.00004	0.0002	mg/L	0.00004	16.77%
Ca 317.933†	8864.0	1.493	mg/L	0.0066	1.493	mg/L	0.0066	0.45%
Cd 228.802†	222.7	0.0062	mg/L	0.00024	0.0062	mg/L	0.00024	3.89%
Co 228.616†	242.3	0.0064	mg/L	0.00008	0.0064	mg/L	0.00008	1.21%
Cr 267.716†	7042.8	0.1135	mg/L	0.00297	0.1135	mg/L	0.00297	2.62%
Cu 327.393†	13964.5	0.1141	mg/L	0.00251	0.1141	mg/L	0.00251	2.20%
Fe 238.204†	63709.1	14.73	mg/L	0.057	14.73	mg/L	0.057	0.39%
K 766.490†	736.3	0.4249	mg/L	0.06845	0.4249	mg/L	0.06845	16.11%
Mg 285.213†	3346.0	0.3504	mg/L	0.00156	0.3504	mg/L	0.00156	0.45%
Mn 257.610†	112245.7	3.911	mg/L	0.0068	3.911	mg/L	0.0068	0.17%
Mo 202.031†	91.1	0.0060	mg/L	0.00024	0.0060	mg/L	0.00024	3.91%
Na 589.592†	15903.8	1.483	mg/L	0.0041	1.483	mg/L	0.0041	0.28%
Ni 231.604†	910.8	0.0261	mg/L	0.00035	0.0261	mg/L	0.00035	1.33%
Pb 220.353†	21.4	0.0034	mg/L	0.00175	0.0034	mg/L	0.00175	52.25%
Sb 206.836†	3.6	-0.0007	mg/L	0.00060	-0.0007	mg/L	0.00060	89.69%
Se 196.026†	-15.4	0.0084	mg/L	0.00152	0.0084	mg/L	0.00152	18.04%
Sn 189.927†	-15.4	-0.0019	mg/L	0.00066	-0.0019	mg/L	0.00066	33.93%
Ti 337.279†	746.1	0.0449	mg/L	0.00028	0.0449	mg/L	0.00028	0.63%
Tl 351.924†	24.6	0.0068	mg/L	0.01108	0.0068	mg/L	0.01108	163.22%
V 290.880†	174.8	0.0017	mg/L	0.00023	0.0017	mg/L	0.00023	13.15%
Zn 206.200†	1842.3	0.0618	mg/L	0.00088	0.0618	mg/L	0.00088	1.43%
Zr 343.823†	111.0	0.0005	mg/L	0.00017	0.0005	mg/L	0.00017	32.83%

Batch ID: OPTIMA 3
Sequence No.: 35
Sample ID: SEQ-IFA@ 23I0975
Analyst:
Initial Sample Wt:
Dilution:
Rinse Time (before sample): 220

Autosampler Location: 11
Date Collected: 5/23/2024 8:39:31 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-IFA@ 23I0975

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	155219.9	102	%	1.02	102	%	1.02	1.00%
Y axial	2659723.8	98.5	%	1.56	98.5	%	1.56	1.59%
Ag 328.068†	-240.8	-0.0003	mg/L	0.00069	-0.0003	mg/L	0.00069	256.51%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	786031.9	261.8	mg/L	2.56	261.8	mg/L	2.56	0.98%
QC value within limits for Al 396.153 Recovery = 104.71%								
As 188.979†	-23.5	0.0030	mg/L	0.00224	0.0030	mg/L	0.00224	75.70%
QC value within limits for As 188.979 Recovery = Not calculated								
B 208.889†	79.6	0.0102	mg/L	0.00033	0.0102	mg/L	0.00033	3.21%
QC value within limits for B 208.889 Recovery = Not calculated								
Ba 233.527†	28.6	0.0021	mg/L	0.00122	0.0021	mg/L	0.00122	57.78%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	54.5	0.0002	mg/L	0.00005	0.0002	mg/L	0.00005	29.75%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	1443074.3	243.7	mg/L	2.43	243.7	mg/L	2.43	1.00%
QC value within limits for Ca 317.933 Recovery = 97.47%								
Cd 228.802†	14.4	0.0006	mg/L	0.00018	0.0006	mg/L	0.00018	30.95%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	75.0	0.0020	mg/L	0.00041	0.0020	mg/L	0.00041	20.71%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-335.9	-0.0015	mg/L	0.00017	-0.0015	mg/L	0.00017	11.71%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	-157.2	0.0019	mg/L	0.00053	0.0019	mg/L	0.00053	28.09%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 238.204†	444784.8	102.8	mg/L	1.19	102.8	mg/L	1.19	1.16%
QC value within limits for Fe 238.204 Recovery = 102.80%								
K 766.490†	157.6	0.0734	mg/L	0.05270	0.0734	mg/L	0.05270	71.82%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213†	2467229.3	249.9	mg/L	2.21	249.9	mg/L	2.21	0.88%
QC value within limits for Mg 285.213 Recovery = 99.97%								
Mn 257.610†	169.0	0.0077	mg/L	0.00096	0.0077	mg/L	0.00096	12.43%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	-377.0	-0.0173	mg/L	0.00019	-0.0173	mg/L	0.00019	1.08%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592†	1418.9	0.1323	mg/L	0.00296	0.1323	mg/L	0.00296	2.24%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604†	54.7	0.0016	mg/L	0.00026	0.0016	mg/L	0.00026	16.24%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-123.8	-0.0081	mg/L	0.00160	-0.0081	mg/L	0.00160	19.71%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-5.6	-0.0088	mg/L	0.00418	-0.0088	mg/L	0.00418	47.69%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-310.5	-0.0053	mg/L	0.00610	-0.0053	mg/L	0.00610	115.08%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	-2394.0	0.0692	mg/L	0.00243	0.0692	mg/L	0.00243	3.52%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 337.279†	-22.1	-0.0013	mg/L	0.00099	-0.0013	mg/L	0.00099	74.28%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 351.924†	18.2	0.0164	mg/L	0.00453	0.0164	mg/L	0.00453	27.57%
QC value within limits for Tl 351.924 Recovery = Not calculated								
V 290.880†	1110.6	-0.0064	mg/L	0.00182	-0.0064	mg/L	0.00182	28.66%
QC value within limits for V 290.880 Recovery = Not calculated								
Zn 206.200†	-38.4	0.0024	mg/L	0.00010	0.0024	mg/L	0.00010	4.16%
QC value within limits for Zn 206.200 Recovery = Not calculated								
Zr 343.823†	687.4	0.0032	mg/L	0.00017	0.0032	mg/L	0.00017	5.42%

All analyte(s) passed QC.

Batch ID: OPTIMA 3
Sequence No.: 36
Sample ID: SEQ-IFB@ 23I0976
Analyst:
Initial Sample Wt:
Dilution:
Rinse Time (before sample): 110

Autosampler Location: 12
Date Collected: 5/23/2024 8:45:35 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-IFB@ 23I0976

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	157019.7	104	%	2.65	104	%	2.65	2.56%
Y axial	2682207.6	99.3	%	2.38	99.3	%	2.38	2.39%
Ag 328.068†	28335.4	0.3955	mg/L	0.01203	0.3955	mg/L	0.01203	3.04%
QC value within limits for Ag 328.068 Recovery = 98.88%								
Al 396.153†	774474.1	257.9	mg/L	1.46	257.9	mg/L	1.46	0.56%
QC value within limits for Al 396.153 Recovery = 103.17%								
As 188.979†	280.3	0.2046	mg/L	0.00165	0.2046	mg/L	0.00165	0.81%
QC value within limits for As 188.979 Recovery = 102.31%								
B 208.889†	68.8	0.0090	mg/L	0.00064	0.0090	mg/L	0.00064	7.09%
QC value within limits for B 208.889 Recovery = Not calculated								
Ba 233.527†	4461.6	1.035	mg/L	0.0171	1.035	mg/L	0.0171	1.65%
QC value within limits for Ba 233.527 Recovery = 103.53%								
Be 313.107†	266918.7	1.062	mg/L	0.0050	1.062	mg/L	0.0050	0.47%
QC value within limits for Be 313.107 Recovery = 106.19%								
Ca 317.933†	1416544.7	239.2	mg/L	0.29	239.2	mg/L	0.29	0.12%
QC value within limits for Ca 317.933 Recovery = 95.68%								
Cd 228.802†	75331.5	2.099	mg/L	0.0018	2.099	mg/L	0.0018	0.09%
QC value within limits for Cd 228.802 Recovery = 104.93%								
Co 228.616†	34942.3	0.9387	mg/L	0.02549	0.9387	mg/L	0.02549	2.72%
QC value within limits for Co 228.616 Recovery = 93.87%								
Cr 267.716†	62481.7	1.018	mg/L	0.0014	1.018	mg/L	0.0014	0.14%
QC value within limits for Cr 267.716 Recovery = 101.77%								
Cu 327.393†	124675.4	1.017	mg/L	0.0067	1.017	mg/L	0.0067	0.66%
QC value within limits for Cu 327.393 Recovery = 101.73%								
Fe 238.204†	438972.9	101.5	mg/L	0.52	101.5	mg/L	0.52	0.51%
QC value within limits for Fe 238.204 Recovery = 101.47%								
K 766.490†	58.6	0.0162	mg/L	0.02944	0.0162	mg/L	0.02944	182.18%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213†	2439852.8	247.1	mg/L	1.59	247.1	mg/L	1.59	0.64%
QC value within limits for Mg 285.213 Recovery = 98.86%								
Mn 257.610†	28185.3	0.9843	mg/L	0.03377	0.9843	mg/L	0.03377	3.43%
QC value within limits for Mn 257.610 Recovery = 98.43%								
Mo 202.031†	-396.7	-0.0182	mg/L	0.00069	-0.0182	mg/L	0.00069	3.77%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592†	1177.4	0.1098	mg/L	0.00600	0.1098	mg/L	0.00600	5.46%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604†	59360.0	1.730	mg/L	0.0106	1.730	mg/L	0.0106	0.61%
QC value within limits for Ni 231.604 Recovery = 86.50%								
Pb 220.353†	324.9	0.0838	mg/L	0.00224	0.0838	mg/L	0.00224	2.68%
QC value within limits for Pb 220.353 Recovery = 83.76%								
Sb 206.836†	2906.9	1.170	mg/L	0.0356	1.170	mg/L	0.0356	3.04%
QC value within limits for Sb 206.836 Recovery = 97.49%								
Se 196.026†	951.7	0.5521	mg/L	0.01105	0.5521	mg/L	0.01105	2.00%
QC value within limits for Se 196.026 Recovery = 110.42%								
Sn 189.927†	-2352.9	0.0708	mg/L	0.01185	0.0708	mg/L	0.01185	16.72%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 337.279†	-8.1	-0.0005	mg/L	0.00185	-0.0005	mg/L	0.00185	381.93%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 351.924†	944.7	0.2482	mg/L	0.00610	0.2482	mg/L	0.00610	2.46%
QC value greater than the upper limit for Tl 351.924 Recovery = 124.08%								
V 290.880†	83205.0	1.028	mg/L	0.0004	1.028	mg/L	0.0004	0.04%
QC value within limits for V 290.880 Recovery = 102.77%								
Zn 206.200†	54004.5	1.827	mg/L	0.0189	1.827	mg/L	0.0189	1.03%
QC value within limits for Zn 206.200 Recovery = 91.33%								
Zr 343.823†	700.8	0.0032	mg/L	0.00005	0.0032	mg/L	0.00005	1.47%

QC Failed. Continue with analysis.

Batch ID: OPTIMA 3
Sequence No.: 37
Sample ID: SEQ-CCV@ 23IJ0975
Analyst:
Initial Sample Wt:
Dilution:
Rinse Time (before sample): 220

Autosampler Location: 5
Date Collected: 5/23/2024 8:52:26 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

RR - HNN 052424

Mean Data: SEQ-CCV@ 23IJ0975

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	153461.8	101	%	1.63	101	%	1.63	1.61%
Y axial	2808822.0	104	%	0.71	104	%	0.71	0.69%
Ag 328.068†	150711.4	2.088	mg/L	0.0355	2.088	mg/L	0.0355	1.70%
QC value less than the lower limit for Ag 328.068 Recovery = 83.51%								
Al 396.153†	31610.5	10.30	mg/L	0.007	10.30	mg/L	0.007	0.07%
QC value within limits for Al 396.153 Recovery = 102.99%								
As 188.979†	8071.2	5.212	mg/L	0.0470	5.212	mg/L	0.0470	0.90%
QC value within limits for As 188.979 Recovery = 104.23%								
B 208.889†	44654.8	4.933	mg/L	0.0357	4.933	mg/L	0.0357	0.72%
QC value within limits for B 208.889 Recovery = 98.66%								
Ba 233.527†	21540.6	5.020	mg/L	0.0926	5.020	mg/L	0.0926	1.84%
QC value within limits for Ba 233.527 Recovery = 100.40%								
Be 313.107†	1323702.4	5.264	mg/L	0.0511	5.264	mg/L	0.0511	0.97%
QC value within limits for Be 313.107 Recovery = 105.29%								
Ca 317.933†	58162.1	9.821	mg/L	0.0299	9.821	mg/L	0.0299	0.30%
QC value within limits for Ca 317.933 Recovery = 98.21%								
Cd 228.802†	188486.3	5.203	mg/L	0.0088	5.203	mg/L	0.0088	0.17%
QC value within limits for Cd 228.802 Recovery = 104.06%								
Co 228.616†	194175.4	5.221	mg/L	0.0032	5.221	mg/L	0.0032	0.06%
QC value within limits for Co 228.616 Recovery = 104.42%								
Cr 267.716†	324509.8	5.265	mg/L	0.0054	5.265	mg/L	0.0054	0.10%
QC value within limits for Cr 267.716 Recovery = 105.31%								
Cu 327.393†	608695.2	4.960	mg/L	0.0055	4.960	mg/L	0.0055	0.11%
QC value within limits for Cu 327.393 Recovery = 99.20%								
Fe 238.204†	22544.9	5.257	mg/L	0.0100	5.257	mg/L	0.0100	0.19%
QC value within limits for Fe 238.204 Recovery = 105.15%								
K 766.490†	17882.9	10.38	mg/L	0.038	10.38	mg/L	0.038	0.37%
QC value within limits for K 766.490 Recovery = 103.81%								
Mg 285.213†	105106.8	10.65	mg/L	0.020	1	RR - HNN 052424	0.020	0.18%
QC value within limits for Mg 285.213 Recovery = 106.52%								
Mn 257.610†	145624.2	5.076	mg/L	0.0051	5		0.0051	0.10%
QC value within limits for Mn 257.610 Recovery = 101.52%								
Mo 202.031†	94230.3	4.935	mg/L	0.0099	4.935	mg/L	0.0099	0.20%
QC value within limits for Mo 202.031 Recovery = 98.70%								
Na 589.592†	112745.8	10.51	mg/L	0.028	10.51	mg/L	0.028	0.27%
QC value within limits for Na 589.592 Recovery = 105.10%								
Ni 231.604†	164277.6	4.785	mg/L	0.0074	4.785	mg/L	0.0074	0.15%
QC value within limits for Ni 231.604 Recovery = 95.70%								
Pb 220.353†	24852.4	5.119	mg/L	0.0384	5.119	mg/L	0.0384	0.75%
QC value within limits for Pb 220.353 Recovery = 102.38%								
Sb 206.836†	12811.8	5.278	mg/L	0.0382	5.278	mg/L	0.0382	0.72%
QC value within limits for Sb 206.836 Recovery = 105.57%								
Se 196.026†	11944.9	5.306	mg/L	0.0280	5.306	mg/L	0.0280	0.53%
QC value within limits for Se 196.026 Recovery = 106.11%								
Sn 189.927†	31174.9	5.358	mg/L	0.0507	5.358	mg/L	0.0507	0.95%
QC value within limits for Sn 189.927 Recovery = 107.16%								
Ti 337.279†	85164.8	5.124	mg/L	0.0028	5.124	mg/L	0.0028	0.05%
QC value within limits for Ti 337.279 Recovery = 102.48%								
Tl 351.924†	10869.1	2.711	mg/L	0.0062	2.711	mg/L	0.0062	0.23%
QC value within limits for Tl 351.924 Recovery = 108.46%								
V 290.880†	407186.1	5.243	mg/L	0.0018	5.243	mg/L	0.0018	0.04%
QC value within limits for V 290.880 Recovery = 104.85%								
Zn 206.200†	146404.2	4.966	mg/L	0.0180	4.966	mg/L	0.0180	0.36%
QC value within limits for Zn 206.200 Recovery = 99.32%								
Zr 343.823†	1045609.4	4.812	mg/L	0.0036	4.812	mg/L	0.0036	0.08%

QC Failed. Retry.

Batch ID: OPTIMA 3
Sequence No.: 38
Sample ID: SEQ-CCV@ 23IJ0975
Analyst:
Initial Sample Wt:
Dilution:
Rinse Time (before sample): 220

Autosampler Location: 5
Date Collected: 5/23/2024 8:54:32 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-CCV@ 23IJ0975

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	157908.0	104	%	2.45	104	%	2.45	2.36%
Y axial	2825396.8	105	%	1.74	105	%	1.74	1.66%
Ag 328.068†	152014.4	2.106	mg/L	0.0686	2.106	mg/L	0.0686	3.26%
QC value less than the lower limit for Ag 328.068 Recovery = 84.23%								
Al 396.153†	31528.5	10.27	mg/L	0.029	10.27	mg/L	0.029	0.28%
QC value within limits for Al 396.153 Recovery = 102.71%								
As 188.979†	8060.1	5.204	mg/L	0.1253	5.204	mg/L	0.1253	2.41%
QC value within limits for As 188.979 Recovery = 104.09%								
B 208.889†	44927.0	4.964	mg/L	0.1566	4.964	mg/L	0.1566	3.15%
QC value within limits for B 208.889 Recovery = 99.29%								
Ba 233.527†	21969.5	5.120	mg/L	0.2129	5.120	mg/L	0.2129	4.16%
QC value within limits for Ba 233.527 Recovery = 102.40%								
Be 313.107†	1343960.9	5.345	mg/L	0.1042	5.345	mg/L	0.1042	1.95%
QC value within limits for Be 313.107 Recovery = 106.91%								
Ca 317.933†	58517.1	9.881	mg/L	0.0547	9.881	mg/L	0.0547	0.55%
QC value within limits for Ca 317.933 Recovery = 98.81%								
Cd 228.802†	188648.1	5.208	mg/L	0.0078	5.208	mg/L	0.0078	0.15%
QC value within limits for Cd 228.802 Recovery = 104.15%								
Co 228.616†	194036.5	5.217	mg/L	0.0140	5.217	mg/L	0.0140	0.27%
QC value within limits for Co 228.616 Recovery = 104.35%								
Cr 267.716†	323663.6	5.252	mg/L	0.0172	5.252	mg/L	0.0172	0.33%
QC value within limits for Cr 267.716 Recovery = 105.03%								
Cu 327.393†	612015.2	4.987	mg/L	0.0167	4.987	mg/L	0.0167	0.33%
QC value within limits for Cu 327.393 Recovery = 99.74%								
Fe 238.204†	22556.2	5.260	mg/L	0.0192	5.260	mg/L	0.0192	0.37%
QC value within limits for Fe 238.204 Recovery = 105.20%								
K 766.490†	17843.5	10.36	mg/L	0.060	10.36	mg/L	0.060	0.58%
QC value within limits for K 766.490 Recovery = 103.58%								
Mg 285.213†	104658.3	10.61	mg/L	0.014	10.61	mg/L	0.014	0.13%
QC value within limits for Mg 285.213 Recovery = 106.06%								
Mn 257.610†	145898.0	5.086	mg/L	0.0241	5.086	mg/L	0.0241	0.47%
QC value within limits for Mn 257.610 Recovery = 101.72%								
Mo 202.031†	94385.6	4.943	mg/L	0.0155	4.943	mg/L	0.0155	0.31%
QC value within limits for Mo 202.031 Recovery = 98.86%								
Na 589.592†	112590.4	10.50	mg/L	0.033	10.50	mg/L	0.033	0.31%
QC value within limits for Na 589.592 Recovery = 104.96%								
Ni 231.604†	164571.5	4.794	mg/L	0.0157	4.794	mg/L	0.0157	0.33%
QC value within limits for Ni 231.604 Recovery = 95.88%								
Pb 220.353†	24850.5	5.118	mg/L	0.1625	5.118	mg/L	0.1625	3.17%
QC value within limits for Pb 220.353 Recovery = 102.37%								
Sb 206.836†	12752.7	5.254	mg/L	0.1607	5.254	mg/L	0.1607	3.06%
QC value within limits for Sb 206.836 Recovery = 105.09%								
Se 196.026†	11856.0	5.266	mg/L	0.1484	5.266	mg/L	0.1484	2.82%
QC value within limits for Se 196.026 Recovery = 105.32%								
Sn 189.927†	31129.7	5.350	mg/L	0.1697	5.350	mg/L	0.1697	3.17%
QC value within limits for Sn 189.927 Recovery = 107.00%								
Ti 337.279†	85306.9	5.132	mg/L	0.0228	5.132	mg/L	0.0228	0.44%
QC value within limits for Ti 337.279 Recovery = 102.65%								
Tl 351.924†	10707.0	2.671	mg/L	0.0623	2.671	mg/L	0.0623	2.33%
QC value within limits for Tl 351.924 Recovery = 106.86%								
V 290.880†	406046.3	5.229	mg/L	0.0101	5.229	mg/L	0.0101	0.19%
QC value within limits for V 290.880 Recovery = 104.57%								
Zn 206.200†	146409.9	4.966	mg/L	0.0256	4.966	mg/L	0.0256	0.52%
QC value within limits for Zn 206.200 Recovery = 99.32%								
Zr 343.823†	1046306.1	4.815	mg/L	0.0092	4.815	mg/L	0.0092	0.19%

QC Failed. Continue with analysis.

Batch ID: OPTIMA 3
Sequence No.: 39
Sample ID: SEQ-CCB@ 23J0970
Analyst:
Initial Sample Wt:
Dilution:
Rinse Time (before sample): 220

Autosampler Location: 1
Date Collected: 5/23/2024 9:00:19 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

RR - HNN 052424

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	152245.5	100	%	0.61	100	%	0.61	0.61%
Y axial	2812901.5	104	%	1.36	104	%	1.36	1.31%
Ag 328.068†	1809.0	0.0251	mg/L	0.00062	0.0251	mg/L	0.00062	2.48%
QC value greater than the upper limit for Ag 328.068 Recovery = Not calculated								
Al 396.153†	-24.1	-0.0081	mg/L	0.01786	-0.0081	mg/L	0.01786	220.93%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	0.4	0.0003	mg/L	0.00286	0.0003	mg/L	0.00286	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated								
B 208.889†	248.1	0.0287	mg/L	0.00109	0.0287	mg/L	0.00109	3.81%
QC value within limits for B 208.889 Recovery = Not calculated								
Ba 233.527†	6.4	0.0015	mg/L	0.00065	0.0015	mg/L	0.00065	42.96%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	2.1	0.0000	mg/L	0.00002	0.0000	mg/L	0.00002	124.70%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	72.5	0.0122	mg/L	0.00090	0.0122	mg/L	0.00090	7.39%
QC value within limits for Ca 317.933 Recovery = Not calculated								
Cd 228.802†	14.3	0.0004	mg/L	0.00020	0.0004	mg/L	0.00020	49.16%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	56.9	0.0015	mg/L	0.00019	0.0015	mg/L	0.00019	12.55%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-47.4	-0.0008	mg/L	0.00014	-0.0008	mg/L	0.00014	17.87%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	1079.1	0.0088	mg/L	0.00086	0.0088	mg/L	0.00086	9.80%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 238.204†	11.2	0.0026	mg/L	0.00443	0.0026	mg/L	0.00443	169.63%
QC value within limits for Fe 238.204 Recovery = Not calculated								
K 766.490†	218.6	0.1269	mg/L	0.01871	0.1269	mg/L	0.01871	14.75%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213†	-1.2	-0.0001	mg/L	0.00093	-0.0001	mg/L	0.00093	763.82%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610†	14.8	0.0005	mg/L	0.00033	0.0005	mg/L	0.00033	63.41%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	23.7	0.0012	mg/L	0.00016	0.0012	mg/L	0.00016	12.93%
QC value within limits for Mo 202.031 Recover								
Na 589.592†	617.9	0.0576	mg/L		76	mg/L	0.00551	9.56%
QC value within limits for Na 589.592 Recover								
Ni 231.604†	49.5	0.0014	mg/L		14	mg/L	0.00023	15.85%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-18.3	-0.0038	mg/L	0.00168	-0.0038	mg/L	0.00168	44.70%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-4.6	-0.0019	mg/L	0.00181	-0.0019	mg/L	0.00181	94.86%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	18.1	0.0081	mg/L	0.00241	0.0081	mg/L	0.00241	29.83%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	-3.2	-0.0006	mg/L	0.00047	-0.0006	mg/L	0.00047	84.60%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 337.279†	-40.7	-0.0025	mg/L	0.00154	-0.0025	mg/L	0.00154	62.79%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 351.924†	23.7	0.0059	mg/L	0.00398	0.0059	mg/L	0.00398	67.35%
QC value within limits for Tl 351.924 Recovery = Not calculated								
V 290.880†	-202.3	-0.0025	mg/L	0.00036	-0.0025	mg/L	0.00036	14.17%
QC value within limits for V 290.880 Recovery = Not calculated								
Zn 206.200†	28.3	0.0009	mg/L	0.00010	0.0009	mg/L	0.00010	11.14%
QC value within limits for Zn 206.200 Recovery = Not calculated								
Zr 343.823†	-61.7	-0.0003	mg/L	0.00010	-0.0003	mg/L	0.00010	36.22%

QC Failed. Retry.

RR - HNN 052424

Batch ID: OPTIMA 3
Sequence No.: 40
Sample ID: SEQ-CCB@ 23J0970
Analyst:
Initial Sample Wt:
Dilution:
Rinse Time (before sample): 220

Autosampler Location: 1
Date Collected: 5/23/2024 9:04:15 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	155016.4	102	%	1.62	102	%	1.62	1.58%
Y axial	2848068.7	105	%	0.86	105	%	0.86	0.82%
Ag 328.068†	1052.1	0.0146	mg/L	0.00077	0.0146	mg/L	0.00077	5.29%
QC value greater than the upper limit for Ag 328.068 Recovery = Not calculated								
Al 396.153†	-86.8	-0.0290	mg/L	0.01142	-0.0290	mg/L	0.01142	39.44%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	6.5	0.0042	mg/L	0.00055	0.0042	mg/L	0.00055	13.06%
QC value within limits for As 188.979 Recovery = Not calculated								
B 208.889†	198.2	0.0229	mg/L	0.00065	0.0229	mg/L	0.00065	2.84%
QC value within limits for B 208.889 Recovery = Not calculated								
Ba 233.527†	6.4	0.0015	mg/L	0.00061	0.0015	mg/L	0.00061	40.72%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	11.2	0.0001	mg/L	0.00004	0.0001	mg/L	0.00004	78.13%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	50.7	0.0086	mg/L	0.00356	0.0086	mg/L	0.00356	41.52%
QC value within limits for Ca 317.933 Recovery = Not calculated								
Cd 228.802†	20.6	0.0005	mg/L	0.00013	0.0005	mg/L	0.00013	24.38%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	57.4	0.0015	mg/L	0.00005	0.0015	mg/L	0.00005	3.43%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-38.0	-0.0006	mg/L	0.00015	-0.0006	mg/L	0.00015	24.55%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	805.0	0.0065	mg/L	0.00006	0.0065	mg/L	0.00006	0.91%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 238.204†	-0.3	-0.0001	mg/L	0.00043	-0.0001	mg/L	0.00043	710.93%
QC value within limits for Fe 238.204 Recovery = Not calculated								
K 766.490†	145.0	0.0842	mg/L	0.06793	0.0842	mg/L	0.06793	80.68%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213†	-11.9	-0.0012	mg/L	0.00057	-0.0012	mg/L	0.00057	47.05%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610†	21.4	0.0007	mg/L	0.00021	0.0007	mg/L	0.00021	28.71%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	16.0	0.0008	mg/L	0.00023	0.0008	mg/L	0.00023	27.12%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592†	495.9	0.0462	mg/L	0.01010	0.0462	mg/L	0.01010	21.85%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604†	46.0	0.0013	mg/L	0.00009	0.0013	mg/L	0.00009	6.38%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-16.0	-0.0033	mg/L	0.00018	-0.0033	mg/L	0.00018	5.59%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-4.3	-0.0018	mg/L	0.00174	-0.0018	mg/L	0.00174	96.24%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	19.8	0.0088	mg/L	0.00229	0.0088	mg/L	0.00229	25.97%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	-0.6	-0.0001	mg/L	0.00079	-0.0001	mg/L	0.00079	804.51%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 337.279†	-20.8	-0.0013	mg/L	0.00066	-0.0013	mg/L	0.00066	52.41%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 351.924†	32.3	0.0080	mg/L	0.01435	0.0080	mg/L	0.01435	178.91%
QC value within limits for Tl 351.924 Recovery = Not calculated								
V 290.880†	-249.2	-0.0031	mg/L	0.00007	-0.0031	mg/L	0.00007	2.39%
QC value within limits for V 290.880 Recovery = Not calculated								
Zn 206.200†	21.8	0.0007	mg/L	0.00013	0.0007	mg/L	0.00013	18.17%
QC value within limits for Zn 206.200 Recovery = Not calculated								
Zr 343.823†	-48.8	-0.0002	mg/L	0.00008	-0.0002	mg/L	0.00008	34.77%

QC Failed. Continue with analysis.

ANALYSIS SEQUENCE

S105074

Instrument: ICP4

Calibration ID: 2400589

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
S105074-CAL1	QC		1		24D0837	24D0241	
S105074-CAL3	QC		2		24D0039	24D0241	
S105074-CAL4	QC		3		24D0038	24D0241	
S105074-CAL5	QC		4		24D0037	24D0241	
S105074-CAL6	QC		5		24D0029	24D0241	
S105074-CAL7	QC		6		24D0035	24D0241	
S105074-CAL8	QC		7		24D0728	24D0241	
S105074-CAL2	QC		8		24D0841	24D0241	
S105074-ICV1	QC		9		24E0296	24D0241	
S105074-ICB1	QC		10		24D0837	24D0241	
S105074-LCV1	QC		11		24D0841	24D0241	
S105074-CCV1	QC		12		24D0029	24D0241	
S105074-IFA1	QC		13		24C0959	24D0241	
S105074-IFB1	QC		14		24D0240	24D0241	
S105074-HCV1	QC		15		24D0030	24D0241	
S105074-HCV2	QC		16		24C0960	24D0241	

Samples Loaded By Date

Data Processed By Date

Align View XY Axial for analyte Mn 257.610

X-position	Y-position	Intensity
-2.0	15.0	196399.1
-1.6	15.0	249415.7
-1.2	15.0	313663.3
-0.8	15.0	358411.0
-0.4	15.0	384926.2
0.0	15.0	387100.7
0.4	15.0	361176.9
0.8	15.0	306126.3
1.2	15.0	229233.3
1.6	15.0	162259.9
0.0	10.0	2699.4
0.0	10.5	12618.1
0.0	11.0	22590.6
0.0	11.5	37972.1
0.0	12.0	61246.5
0.0	12.5	137633.1
0.0	13.0	193313.4
0.0	13.5	247874.1
0.0	14.0	299213.0
0.0	14.5	371106.5
0.0	15.0	386810.6
0.0	15.5	377008.5
0.0	16.0	349191.2
0.0	16.5	227121.0
0.0	17.0	165313.9
0.0	17.5	119338.1
0.0	18.0	84487.3
0.0	18.5	37286.9
0.0	19.0	22617.5
0.0	19.5	13954.0
-0.8	15.0	358580.8
-0.4	15.0	385427.0
0.0	15.0	387301.6
0.4	15.0	348634.8
0.0	13.0	195326.3
0.0	13.5	245247.0
0.0	14.0	296447.2
0.0	14.5	375372.2
0.0	15.0	385138.2
0.0	15.5	378340.6
0.0	16.0	343182.3
0.0	16.5	228993.9

5/27/2024 11:50:32 AM aligned for analyte Mn 257.610
X viewing position set to 0.0 mm having Peak intensity 385138.2 for Axial viewing
Y viewing position set to 15.0 mm having Peak intensity 385138.2 for Axial viewing

Align View X Radial for analyte Mn 257.610

X-position	Y-position	Intensity
-5.9	15.0	36823.9
-5.6	15.0	42285.8
-5.4	15.0	50584.6
-5.1	15.0	59886.9
-4.9	15.0	68672.9
-4.6	15.0	80316.3
-4.4	15.0	94176.7
-4.1	15.0	107098.4
-3.9	15.0	125014.7
-3.7	15.0	137989.2
-3.4	15.0	132786.9
-3.2	15.0	125615.3
-2.9	15.0	165402.1
-2.7	15.0	262532.3
-2.4	15.0	383144.0
-2.2	15.0	502145.3
-2.0	15.0	633048.2

-1.7	15.0	769472.6
-1.5	15.0	883714.7
-1.2	15.0	983330.9
-1.0	15.0	1099840.2
-0.7	15.0	1171700.3
-0.5	15.0	1212928.4
-0.2	15.0	1240271.8
0.0	15.0	1253117.4
0.2	15.0	1224478.0
0.5	15.0	1166480.5
0.7	15.0	1075301.5
1.0	15.0	972716.4
1.2	15.0	865699.1
1.5	15.0	765884.6
1.7	15.0	646171.2
2.0	15.0	530975.4
2.2	15.0	422004.0
2.4	15.0	298695.0
2.7	15.0	159873.9
2.9	15.0	70149.2
3.2	15.0	61903.9
3.4	15.0	62398.7
3.7	15.0	60243.7
3.9	15.0	58285.6
4.1	15.0	53360.4
4.4	15.0	48512.9
4.6	15.0	43368.0
4.9	15.0	40569.9
5.1	15.0	37236.8
5.4	15.0	34351.2
5.6	15.0	32024.7
5.9	15.0	29467.2

5/27/2024 11:56:56 AM aligned for analyte Mn 257.610
X viewing position set to 0.0 mm having Peak intensity 1253117.4 for Radial viewing

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Method Loaded
Method Name: ICP4_012224 **Method Last Saved: 5/15/2024 10:51:11 AM**
IEC File: 111223 IEC.iec **MSF File:**
Method Description: Soils and Waters

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Al 396.153	Lin Thru 0	Peak Area	Radial	Y radial	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Y axial	Yes
B 208.889	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ba 233.527	Lin Thru 0	Peak Area	Radial	Y axial	No
Be 313.107	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	Y radial	No
Cd 228.802	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cu 327.393	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Fe 238.204	Lin Thru 0	Peak Area	Radial	Y radial	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	Y radial	No
Mg 285.213	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mn 257.610	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	Y axial	No
Na 589.592	Lin Thru 0	Peak Area	Radial	Y radial	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ti 337.279	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Tl 351.924	Lin Thru 0	Peak Area	Axial	Y axial	Yes
V 290.880	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Y radial	Lin, Calc Int	Peak Area	Radial	n/a	n/a

Y axial	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 206.200	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Zr 343.823	Lin Thru 0	Peak Area	Axial	Y axial	Yes

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Batch ID: AVIO 500
Sequence No.: 1 **Autosampler Location: 1**
Sample ID: SEQ-CAL1@BLANK 23IJ0970 **Date Collected: 5/27/2024 12:04:51 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample):

Mean Data: SEQ-CAL1@BLANK 23IJ0970

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y radial	633526.0	4874.77	0.77%	100	%
Y axial	2706602.7	17000.97	0.63%	100	%
Ag 328.068†	-229.9	12.36	5.38%	[0.00]	mg/L
Al 396.153†	15.5	59.07	380.87%	[0.00]	mg/L
As 188.979†	-5.5	3.04	55.01%	[0.00]	mg/L
B 208.889†	42.7	0.75	1.75%	[0.00]	mg/L
Ba 233.527†	-7.4	0.41	5.46%	[0.00]	mg/L
Be 313.107†	3098.8	54.21	1.75%	[0.00]	mg/L
Ca 317.933†	5053.3	31.02	0.61%	[0.00]	mg/L
Cd 228.802†	57.2	6.24	10.91%	[0.00]	mg/L
Co 228.616†	-18.1	2.12	11.66%	[0.00]	mg/L
Cr 267.716†	28.6	1.83	6.39%	[0.00]	mg/L
Cu 327.393†	-39.7	38.28	96.41%	[0.00]	mg/L
Fe 238.204†	86.4	7.63	8.83%	[0.00]	mg/L
K 766.490†	2.9	5.80	198.45%	[0.00]	mg/L
Mg 285.213†	-62.3	10.55	16.93%	[0.00]	mg/L
Mn 257.610†	-2.8	4.21	151.53%	[0.00]	mg/L
Mo 202.031†	-8.4	7.79	92.87%	[0.00]	mg/L
Na 589.592†	11599.2	537.11	4.63%	[0.00]	mg/L
Ni 231.604†	-180.5	2.04	1.13%	[0.00]	mg/L
Pb 220.353†	32.8	6.10	18.56%	[0.00]	mg/L
Sb 206.836†	25.9	4.18	16.13%	[0.00]	mg/L
Se 196.026†	11.1	2.17	19.66%	[0.00]	mg/L
Sn 189.927†	2.8	3.06	111.27%	[0.00]	mg/L
Ti 337.279†	-217.2	22.41	10.32%	[0.00]	mg/L
Tl 351.924†	-9.0	1.39	15.37%	[0.00]	mg/L
V 290.880†	1381.8	38.57	2.79%	[0.00]	mg/L
Zn 206.200†	5.5	8.47	152.92%	[0.00]	mg/L
Zr 343.823†	-33.8	26.19	77.36%	[0.00]	mg/L

User canceled analysis.

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Batch ID: AVIO 500
Sequence No.: 1 **Autosampler Location: 1**
Sample ID: SEQ-CAL1@BLANK 23IJ0970 **Date Collected: 5/27/2024 12:10:34 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample):

Mean Data: SEQ-CAL1@BLANK 23IJ0970

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y radial	635192.1	4611.93	0.73%	100	%
Y axial	2697200.7	18391.62	0.68%	99.7	%
Ag 328.068†	-230.9	18.37	7.96%	[0.00]	mg/L
Al 396.153†	109.2	95.96	87.86%	[0.00]	mg/L
As 188.979†	-5.3	2.07	38.83%	[0.00]	mg/L
B 208.889†	40.0	1.28	3.20%	[0.00]	mg/L
Ba 233.527†	0.4	9.18	>999.9%	[0.00]	mg/L
Be 313.107†	3045.9	44.64	1.47%	[0.00]	mg/L
Ca 317.933†	5045.8	8.72	0.17%	[0.00]	mg/L

Cd 228.802†	50.2	3.69	7.35%	[0.00]	mg/L
Co 228.616†	-16.2	3.49	21.51%	[0.00]	mg/L
Cr 267.716†	42.3	5.05	11.95%	[0.00]	mg/L
Cu 327.393†	-30.5	41.67	136.74%	[0.00]	mg/L
Fe 238.204†	87.4	9.06	10.37%	[0.00]	mg/L
K 766.490†	-20.0	39.68	198.49%	[0.00]	mg/L
Mg 285.213†	-65.5	10.05	15.34%	[0.00]	mg/L
Mn 257.610†	-19.6	2.70	13.75%	[0.00]	mg/L
Mo 202.031†	-7.0	2.21	31.51%	[0.00]	mg/L
Na 589.592†	11939.7	188.20	1.58%	[0.00]	mg/L
Ni 231.604†	-175.7	5.92	3.37%	[0.00]	mg/L
Pb 220.353†	32.6	3.42	10.50%	[0.00]	mg/L
Sb 206.836†	28.6	4.07	14.21%	[0.00]	mg/L
Se 196.026†	8.5	1.05	12.42%	[0.00]	mg/L
Sn 189.927†	0.6	2.63	453.63%	[0.00]	mg/L
Ti 337.279†	-222.9	2.97	1.33%	[0.00]	mg/L
Tl 351.924†	-6.3	9.10	144.82%	[0.00]	mg/L
V 290.880†	1440.4	12.75	0.89%	[0.00]	mg/L
Zn 206.200†	4.2	3.33	78.56%	[0.00]	mg/L
Zr 343.823†	-81.5	29.89	36.69%	[0.00]	mg/L

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Batch ID: AVIO 500
Sequence No.: 2
Sample ID: SEQ-CAL2@ 23J0971
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 100

Autosampler Location: 2
Date Collected: 5/27/2024 12:16:34 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

RR MJH 5-28-24

Mean Data: SEQ-CAL2@ 23J0971

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y radial	629616.1	1033.98	0.16%	99.4	%
Y axial	2670707.7	15553.00	0.58%	98.7	%
Ag 328.068†	386.9	73.73	19.06%	[0.01]	mg/L
Al 396.153†	1045.2	13.59	1.30%	[0.05]	mg/L
As 188.979†	17.6	0.67	3.79%	[0.01]	mg/L
B 208.889†	788.2	8.84	1.12%	[0.1]	mg/L
Ba 233.527†	1463.0	14.50	0.99%	[0.05]	mg/L
Be 313.107†	8422.8	76.05	0.90%	[0.004]	mg/L
Ca 317.933†	12808.0	59.45	0.46%	[0.5]	mg/L
Cd 228.802†	114.4	2.91	2.54%	[0.004]	mg/L
Co 228.616†	235.4	6.69	2.84%	[0.01]	mg/L
Cr 267.716†	572.7	1.10	0.19%	[0.01]	mg/L
Cu 327.393†	909.5	49.59	5.45%	[0.01]	mg/L
Fe 238.204†	1110.6	10.64	0.96%	[0.05]	mg/L
Mg 285.213†	2697.8	10.07	0.37%	[0.05]	mg/L
Mn 257.610†	1243.3	9.96	0.80%	[0.01]	mg/L
Mo 202.031†	1002.7	12.91	1.29%	[0.05]	mg/L
Ni 231.604†	396.1	2.85	0.72%	[0.01]	mg/L
Pb 220.353†	64.2	6.82	10.61%	[0.01]	mg/L
Sb 206.836†	141.4	4.85	3.43%	[0.05]	mg/L
Se 196.026†	92.3	1.28	1.39%	[0.05]	mg/L
Sn 189.927†	595.1	5.87	0.99%	[0.1]	mg/L
Ti 337.279†	2183.2	6.64	0.30%	[0.02]	mg/L
Tl 351.924†	114.4	3.96	3.46%	[0.05]	mg/L
V 290.880†	936.2	61.38	6.56%	[0.01]	mg/L
Zn 206.200†	422.8	5.25	1.24%	[0.01]	mg/L

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Batch ID: AVIO 500
Sequence No.: 3
Sample ID: SEQ-CAL3@ 23J0972
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 200

Autosampler Location: 3
Date Collected: 5/27/2024 12:24:17 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-CAL3@ 23J0972

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y radial	624826.8	5602.01	0.90%	98.6	%
Y axial	2660446.1	21988.58	0.83%	98.3	%
Ag 328.068†	2919.0	61.79	2.12%	[0.0625]	mg/L
Al 396.153†	5408.1	50.62	0.94%	[0.25]	mg/L
As 188.979†	188.7	7.35	3.90%	[0.125]	mg/L
B 208.889†	1005.1	7.38	0.73%	[0.125]	mg/L
Ba 233.527†	3667.3	25.56	0.70%	[0.125]	mg/L
Be 313.107†	256677.7	1753.92	0.68%	[0.125]	mg/L
Cd 228.802†	3400.2	26.37	0.78%	[0.125]	mg/L
Co 228.616†	3034.8	29.63	0.98%	[0.125]	mg/L
Cr 267.716†	7003.8	44.72	0.64%	[0.125]	mg/L
Cu 327.393†	10744.9	48.46	0.45%	[0.125]	mg/L
Fe 238.204†	2874.8	21.87	0.76%	[0.125]	mg/L
Mg 285.213†	13912.1	120.06	0.86%	[0.25]	mg/L
Mn 257.610†	15595.4	119.02	0.76%	[0.125]	mg/L
Mo 202.031†	2493.8	19.60	0.79%	[0.125]	mg/L
Ni 231.604†	4950.8	71.02	1.43%	[0.125]	mg/L
Pb 220.353†	753.0	7.00	0.93%	[0.125]	mg/L
Sb 206.836†	393.0	5.18	1.32%	[0.125]	mg/L
Se 196.026†	226.7	5.61	2.47%	[0.125]	mg/L
Sn 189.927†	780.6	7.84	1.00%	[0.125]	mg/L
Ti 337.279†	13184.9	109.68	0.83%	[0.125]	mg/L
Tl 351.924†	148.6	4.35	2.93%	[0.0625]	mg/L
V 290.880†	11409.0	66.82	0.59%	[0.125]	mg/L
Zn 206.200†	5098.5	20.34	0.40%	[0.125]	mg/L
Zr 343.823†	25895.1	110.57	0.43%	[0.125]	mg/L

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Batch ID: AVIO 500
Sequence No.: 4 **Autosampler Location: 4**
Sample ID: SEQ-CAL4@ 23J0973 **Date Collected: 5/27/2024 12:32:00 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 200

Mean Data: SEQ-CAL4@ 23J0973

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y radial	637613.5	786.27	0.12%	101	%
Y axial	2687970.3	10254.06	0.38%	99.3	%
Ag 328.068†	11629.2	52.01	0.45%	[0.25]	mg/L
Al 396.153†	22258.6	460.05	2.07%	[1]	mg/L
As 188.979†	754.6	8.10	1.07%	[0.5]	mg/L
B 208.889†	3979.1	29.77	0.75%	[0.5]	mg/L
Ba 233.527†	14383.7	76.53	0.53%	[0.5]	mg/L
Be 313.107†	1013420.2	5792.00	0.57%	[0.5]	mg/L
Ca 317.933†	26055.1	208.92	0.80%	[1]	mg/L
Cd 228.802†	13355.2	54.54	0.41%	[0.5]	mg/L
Co 228.616†	12040.9	13.83	0.11%	[0.5]	mg/L
Cr 267.716†	27663.8	34.78	0.13%	[0.5]	mg/L
Cu 327.393†	43258.5	76.33	0.18%	[0.5]	mg/L
Fe 238.204†	11170.8	68.81	0.62%	[0.5]	mg/L
Mg 285.213†	55145.7	214.49	0.39%	[1]	mg/L
Mn 257.610†	60457.8	243.98	0.40%	[0.5]	mg/L
Mo 202.031†	9688.9	31.04	0.32%	[0.5]	mg/L
Ni 231.604†	19898.2	37.69	0.19%	[0.5]	mg/L
Pb 220.353†	2883.0	18.81	0.65%	[0.5]	mg/L
Sb 206.836†	1538.7	12.95	0.84%	[0.5]	mg/L
Se 196.026†	881.9	2.35	0.27%	[0.5]	mg/L
Sn 189.927†	3017.3	21.01	0.70%	[0.5]	mg/L
Ti 337.279†	51157.5	351.96	0.69%	[0.5]	mg/L
Tl 351.924†	595.2	1.96	0.33%	[0.25]	mg/L
V 290.880†	45148.2	44.45	0.10%	[0.5]	mg/L
Zn 206.200†	20441.5	83.71	0.41%	[0.5]	mg/L

Zr 343.823†	103226.5	60.23	0.06%	[0.5]	mg/L

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Batch ID: AVIO 500
Sequence No.: 5 **Autosampler Location: 5**
Sample ID: SEQ-CAL5@ 23J0974 **Date Collected: 5/27/2024 12:38:51 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 200

Mean Data: SEQ-CAL5@ 23J0974

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y radial	630572.3	4518.65	0.72%	99.5	%
Y axial	2643951.3	13014.81	0.49%	97.7	%
Ag 328.068†	24006.9	302.82	1.26%	[0.5]	mg/L
Al 396.153†	45273.7	550.05	1.21%	[2]	mg/L
As 188.979†	1535.6	9.22	0.60%	[1]	mg/L
B 208.889†	7888.5	41.12	0.52%	[1]	mg/L
Ba 233.527†	29002.7	62.43	0.22%	[1]	mg/L
Be 313.107†	2045705.2	9531.28	0.47%	[1]	mg/L
Ca 317.933†	52543.7	659.24	1.25%	[2]	mg/L
Cd 228.802†	27037.6	274.01	1.01%	[1]	mg/L
Co 228.616†	24461.4	222.01	0.91%	[1]	mg/L
Cr 267.716†	55894.3	622.07	1.11%	[1]	mg/L
Cu 327.393†	87777.8	860.51	0.98%	[1]	mg/L
Fe 238.204†	22415.7	202.18	0.90%	[1]	mg/L
K 766.490†	28838.3	990.21	3.43%	[2]	mg/L
Mg 285.213†	112762.8	981.60	0.87%	[2]	mg/L
Mn 257.610†	120542.2	1112.04	0.92%	[1]	mg/L
Mo 202.031†	19145.0	243.79	1.27%	[1]	mg/L
Na 589.592†	66210.7	990.77	1.50%	[2]	mg/L
Ni 231.604†	40219.1	527.33	1.31%	[1]	mg/L
Pb 220.353†	5736.5	22.06	0.38%	[1]	mg/L
Sb 206.836†	3032.3	20.42	0.67%	[1]	mg/L
Se 196.026†	1772.8	14.55	0.82%	[1]	mg/L
Sn 189.927†	5925.7	38.90	0.66%	[1]	mg/L
Ti 337.279†	100960.4	942.29	0.93%	[1]	mg/L
Tl 351.924†	1233.8	3.52	0.29%	[0.5]	mg/L
V 290.880†	91686.4	942.62	1.03%	[1]	mg/L
Zn 206.200†	41546.5	527.78	1.27%	[1]	mg/L
Zr 343.823†	206790.5	1931.07	0.93%	[1]	mg/L

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Batch ID: AVIO 500
Sequence No.: 6 **Autosampler Location: 6**
Sample ID: SEQ-CAL6@ 23J0975 **Date Collected: 5/27/2024 12:45:42 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 200

Mean Data: SEQ-CAL6@ 23J0975

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y radial	630304.2	1686.65	0.27%	99.5	%
Y axial	2585696.2	8528.18	0.33%	95.5	%
Ag 328.068†	112703.9	616.01	0.55%	[2.5]	mg/L
Al 396.153†	234555.8	5095.05	2.17%	[10]	mg/L
As 188.979†	7542.0	3.58	0.05%	[5]	mg/L
B 208.889†	39799.2	252.72	0.63%	[5]	mg/L
Ba 233.527†	142299.9	1308.20	0.92%	[5]	mg/L
Be 313.107†	9827790.4	48203.06	0.49%	[5]	mg/L
Ca 317.933†	246065.7	348.18	0.14%	[10]	mg/L
Cd 228.802†	130212.5	558.27	0.43%	[5]	mg/L
Co 228.616†	115654.3	465.14	0.40%	[5]	mg/L
Cr 267.716†	266606.0	1173.65	0.44%	[5]	mg/L

Cu 327.393†	422740.4	1821.27	0.43%	[5]	mg/L
Fe 238.204†	103691.3	538.37	0.52%	[5]	mg/L
K 766.490†	148187.7	3285.82	2.22%	[10]	mg/L
Mg 285.213†	545865.9	3306.44	0.61%	[10]	mg/L
Mn 257.610†	574484.4	2773.86	0.48%	[5]	mg/L
Mo 202.031†	93602.5	420.07	0.45%	[5]	mg/L
Na 589.592†	332176.3	3231.97	0.97%	[10]	mg/L
Ni 231.604†	188801.2	543.30	0.29%	[5]	mg/L
Pb 220.353†	26777.5	79.51	0.30%	[5]	mg/L
Sb 206.836†	15213.0	65.68	0.43%	[5]	mg/L
Se 196.026†	8684.1	17.92	0.21%	[5]	mg/L
Sn 189.927†	28744.7	76.92	0.27%	[5]	mg/L
Ti 337.279†	495149.5	1074.18	0.22%	[5]	mg/L
Tl 351.924†	6049.4	78.95	1.31%	[2.5]	mg/L
V 290.880†	442799.5	1912.01	0.43%	[5]	mg/L
Zn 206.200†	197908.7	734.09	0.37%	[5]	mg/L
Zr 343.823†	1022274.0	4726.44	0.46%	[5]	mg/L

Batch ID: AVIO 500
Sequence No.: 7 **Autosampler Location: 7**
Sample ID: SEQ-CAL7@ 23J0976 **Date Collected: 5/27/2024 12:51:34 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 200

Mean Data: SEQ-CAL7@ 23J0976

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y radial	617305.7	880.33	0.14%	97.4	%
Y axial	2481309.4	4808.35	0.19%	91.7	%
Ag 328.068†	223064.8	339.71	0.15%	[5]	mg/L
Al 396.153†	490060.6	10690.16	2.18%	[20]	mg/L
As 188.979†	15415.5	120.59	0.78%	[10]	mg/L
B 208.889†	80081.0	793.76	0.99%	[10]	mg/L
Ba 233.527†	289602.4	1013.11	0.35%	[10]	mg/L
Be 313.107†	19641074.5	34061.76	0.17%	[10]	mg/L
Ca 317.933†	498727.4	1216.97	0.24%	[20]	mg/L
Cd 228.802†	261904.8	113.11	0.04%	[10]	mg/L
Co 228.616†	231348.4	134.33	0.06%	[10]	mg/L
Cr 267.716†	535157.8	362.18	0.07%	[10]	mg/L
Cu 327.393†	860612.7	3480.41	0.40%	[10]	mg/L
Fe 238.204†	206560.6	1116.87	0.54%	[10]	mg/L
K 766.490†	302690.2	8787.46	2.90%	[20]	mg/L
Mg 285.213†	1112400.6	8876.91	0.80%	[20]	mg/L
Mn 257.610†	1141539.3	6808.58	0.60%	[10]	mg/L
Mo 202.031†	187121.7	224.20	0.12%	[10]	mg/L
Na 589.592†	683045.0	10325.00	1.51%	[20]	mg/L
Ni 231.604†	376288.9	328.44	0.09%	[10]	mg/L
Pb 220.353†	52746.4	486.73	0.92%	[10]	mg/L
Sb 206.836†	30723.4	313.68	1.02%	[10]	mg/L
Se 196.026†	17554.9	221.09	1.26%	[10]	mg/L
Sn 189.927†	56912.8	385.16	0.68%	[10]	mg/L
Ti 337.279†	997940.6	1303.61	0.13%	[10]	mg/L
Tl 351.924†	12292.3	158.75	1.29%	[5]	mg/L
V 290.880†	896051.8	1050.46	0.12%	[10]	mg/L
Zn 206.200†	395438.0	744.77	0.19%	[10]	mg/L
Zr 343.823†	2055207.8	2735.84	0.13%	[10]	mg/L

Batch ID: AVIO 500
Sequence No.: 8 **Autosampler Location: 8**
Sample ID: SEQ-CAL8@ 23J0977 **Date Collected: 5/27/2024 12:57:26 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 200

Mean Data: SEQ-CAL8@ 23J0977

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y radial	613179.5	2136.79	0.35%	96.8	%
Y axial	2434874.2	8311.43	0.34%	90.0	%
Al 396.153†	1208919.2	2345.22	0.19%	[50]	mg/L
Ca 317.933†	1260786.2	4220.00	0.33%	[50]	mg/L
Fe 238.204†	520107.1	1827.99	0.35%	[25]	mg/L
K 766.490†	709261.5	5630.25	0.79%	[50]	mg/L
Mg 285.213†	2716366.8	6250.93	0.23%	[50]	mg/L
Na 589.592†	1653129.7	5053.14	0.31%	[50]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	6	Lin Thru 0	0.0	44740	0.00000	0.999968	
Al 396.153	7	Lin Thru 0	0.0	24190	0.00000	0.999970	
As 188.979	6	Lin Thru 0	0.0	1535	0.00000	0.999963	
B 208.889	6	Lin Thru 0	0.0	7997	0.00000	0.999996	
Ba 233.527	6	Lin Thru 0	0.0	28860	0.00000	0.999976	
Be 313.107	6	Lin Thru 0	0.0	1965000	0.00000	0.999992	
Ca 317.933	6	Lin Thru 0	0.0	25160	0.00000	0.999988	
Cd 228.802	6	Lin Thru 0	0.0	26170	0.00000	0.999993	
Co 228.616	6	Lin Thru 0	0.0	23150	0.00000	0.999985	
Cr 267.716	6	Lin Thru 0	0.0	53500	0.00000	0.999990	
Cu 327.393	6	Lin Thru 0	0.0	85780	0.00000	0.999973	
Fe 238.204	7	Lin Thru 0	0.0	20790	0.00000	0.999992	
K 766.490	4	Lin Thru 0	0.0	14330	0.00000	0.999729	
Mg 285.213	7	Lin Thru 0	0.0	54510	0.00000	0.999967	
Mn 257.610	6	Lin Thru 0	0.0	114400	0.00000	0.999981	
Mo 202.031	6	Lin Thru 0	0.0	18720	0.00000	0.999996	
Na 589.592	4	Lin Thru 0	0.0	33210	0.00000	0.999938	
Ni 231.604	6	Lin Thru 0	0.0	37680	0.00000	0.999978	
Pb 220.353	6	Lin Thru 0	0.0	5295	0.00000	0.999945	
Sb 206.836	6	Lin Thru 0	0.0	3066	0.00000	0.999992	
Se 196.026	6	Lin Thru 0	0.0	1752	0.00000	0.999990	
Sn 189.927	6	Lin Thru 0	0.0	5705	0.00000	0.999982	
Ti 337.279	6	Lin Thru 0	0.0	99660	0.00000	0.999994	
Tl 351.924	6	Lin Thru 0	0.0	2451	0.00000	0.999979	
V 290.880	6	Lin Thru 0	0.0	89420	0.00000	0.999986	
Zn 206.200	6	Lin Thru 0	0.0	39570	0.00000	0.999989	
Zr 343.823	5	Lin Thru 0	0.0	205300	0.00000	0.999998	

Calibration data for Ag 328.068 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	18.37	7.96	N/A
SEQ-CAL2@ 23J0971	386.9	0.01	0.0086	73.73	19.06	-13.52%
SEQ-CAL3@ 23J0972	2919.0	0.0625	0.0652	61.79	2.12	4.40%
SEQ-CAL4@ 23J0973	11629.2	0.25	0.2599	52.01	0.45	3.98%
SEQ-CAL5@ 23J0974	24006.9	0.5	0.5366	302.82	1.26	7.33%
SEQ-CAL6@ 23J0975	112703.9	2.5	2.519	616.01	0.55	0.77%
SEQ-CAL7@ 23J0976	223064.8	5.0	4.986	339.71	0.15	-0.28%

Correlation Coef.: 0.999968 Slope: 44740 Intercept: 0.0

Calibration data for Al 396.153 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	95.96	87.86	N/A
SEQ-CAL2@ 23J0971	1045.2	0.05	0.0432	13.59	1.30	-13.60%
SEQ-CAL3@ 23J0972	5408.1	0.25	0.2235	50.62	0.94	-10.59%
SEQ-CAL4@ 23J0973	22258.6	1.0	0.9200	460.05	2.07	-8.00%
SEQ-CAL5@ 23J0974	45273.7	2.0	1.871	550.05	1.21	-6.44%
SEQ-CAL6@ 23J0975	234555.8	10.0	9.694	5095.05	2.17	-3.06%

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SEQ-CAL7@ 23J0976	490060.6	20.0	20.25	10690.16	2.18	1.27%
SEQ-CAL8@ 23J0977	1208919.2	50.0	49.97	2345.22	0.19	-0.07%

Correlation Coef.: 0.999970 Slope: 24190 Intercept: 0.0

Calibration data for As 188.979 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	2.07	38.83	N/A
SEQ-CAL2@ 23J0971	17.6	0.01	0.0115	0.67	3.79	14.85%
SEQ-CAL3@ 23J0972	188.7	0.125	0.1229	7.35	3.90	-1.67%
SEQ-CAL4@ 23J0973	754.6	0.5	0.4916	8.10	1.07	-1.68%
SEQ-CAL5@ 23J0974	1535.6	1.0	1.000	9.22	0.60	0.05%
SEQ-CAL6@ 23J0975	7542.0	5.0	4.914	3.58	0.05	-1.72%
SEQ-CAL7@ 23J0976	15415.5	10.0	10.04	120.59	0.78	0.44%

Correlation Coef.: 0.999963 Slope: 1535 Intercept: 0.0

Calibration data for B 208.889 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	1.28	3.20	N/A
SEQ-CAL2@ 23J0971	788.2	0.1	0.0986	8.84	1.12	-1.44%
SEQ-CAL3@ 23J0972	1005.1	0.125	0.1257	7.38	0.73	0.54%
SEQ-CAL4@ 23J0973	3979.1	0.5	0.4975	29.77	0.75	-0.49%
SEQ-CAL5@ 23J0974	7888.5	1.0	0.9864	41.12	0.52	-1.36%
SEQ-CAL6@ 23J0975	39799.2	5.0	4.976	252.72	0.63	-0.47%
SEQ-CAL7@ 23J0976	80081.0	10.0	10.01	793.76	0.99	0.13%

Correlation Coef.: 0.999996 Slope: 7997 Intercept: 0.0

Calibration data for Ba 233.527 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	9.18	>999.9%	N/A
SEQ-CAL2@ 23J0971	1463.0	0.05	0.0507	14.50	0.99	1.38%
SEQ-CAL3@ 23J0972	3667.3	0.125	0.1271	25.56	0.70	1.65%
SEQ-CAL4@ 23J0973	14383.7	0.5	0.4984	76.53	0.53	-0.32%
SEQ-CAL5@ 23J0974	29002.7	1.0	1.005	62.43	0.22	0.49%
SEQ-CAL6@ 23J0975	142299.9	5.0	4.930	1308.20	0.92	-1.39%
SEQ-CAL7@ 23J0976	289602.4	10.0	10.03	1013.11	0.35	0.34%

Correlation Coef.: 0.999976 Slope: 28860 Intercept: 0.0

Calibration data for Be 313.107 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	44.64	1.47	N/A
SEQ-CAL2@ 23J0971	8422.8	0.004	0.0043	76.05	0.90	7.15%
SEQ-CAL3@ 23J0972	256677.7	0.125	0.1306	1753.92	0.68	4.49%
SEQ-CAL4@ 23J0973	1013420.2	0.5	0.5157	5792.00	0.57	3.14%
SEQ-CAL5@ 23J0974	2045705.2	1.0	1.041	9531.28	0.47	4.10%
SEQ-CAL6@ 23J0975	9827790.4	5.0	5.001	48203.06	0.49	0.02%
SEQ-CAL7@ 23J0976	19641074.5	10.0	9.995	34061.76	0.17	-0.05%

Correlation Coef.: 0.999992 Slope: 1965000 Intercept: 0.0

Calibration data for Ca 317.933 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	8.72	0.17	N/A
SEQ-CAL2@ 23J0971	12808.0	0.5	0.5091	59.45	0.46	1.81%
SEQ-CAL4@ 23J0973	26055.1	1.0	1.036	208.92	0.80	3.56%
SEQ-CAL5@ 23J0974	52543.7	2.0	2.088	659.24	1.25	4.42%
SEQ-CAL6@ 23J0975	246065.7	10.0	9.780	348.18	0.14	-2.20%

SEQ-CAL7@ 23J0976	498727.4	20.0	19.82	1216.97	0.24	-0.89%
SEQ-CAL8@ 23J0977	1260786.2	50.0	50.11	4220.00	0.33	0.22%

Correlation Coef.: 0.999983 Slope: 25160 Intercept: 0.0

Calibration data for Cd 228.802 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	3.69	7.35	N/A
SEQ-CAL2@ 23J0971	114.4	0.004	0.0044	2.91	2.54	9.26%
SEQ-CAL3@ 23J0972	3400.2	0.125	0.1299	26.37	0.78	3.95%
SEQ-CAL4@ 23J0973	13355.2	0.5	0.5103	54.54	0.41	2.07%
SEQ-CAL5@ 23J0974	27037.6	1.0	1.033	274.01	1.01	3.32%
SEQ-CAL6@ 23J0975	130212.5	5.0	4.976	558.27	0.43	-0.48%
SEQ-CAL7@ 23J0976	261904.8	10.0	10.01	113.11	0.04	0.08%

Correlation Coef.: 0.999993 Slope: 26170 Intercept: 0.0

Calibration data for Co 228.616 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	3.48	21.51	N/A
SEQ-CAL2@ 23J0971	235.4	0.01	0.0102	6.69	2.84	1.69%
SEQ-CAL3@ 23J0972	3034.8	0.125	0.1311	29.63	0.98	4.89%
SEQ-CAL4@ 23J0973	12040.9	0.5	0.5202	13.83	0.11	4.04%
SEQ-CAL5@ 23J0974	24461.4	1.0	1.057	222.01	0.91	5.68%
SEQ-CAL6@ 23J0975	115654.3	5.0	4.997	465.14	0.40	-0.07%
SEQ-CAL7@ 23J0976	231348.4	10.0	9.995	134.33	0.06	-0.05%

Correlation Coef.: 0.999985 Slope: 23150 Intercept: 0.0

Calibration data for Cr 267.716 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	5.05	11.95	N/A
SEQ-CAL2@ 23J0971	572.7	0.01	0.0107	1.10	0.19	7.05%
SEQ-CAL3@ 23J0972	7003.8	0.125	0.1309	44.72	0.64	4.73%
SEQ-CAL4@ 23J0973	27663.8	0.5	0.5171	34.78	0.13	3.42%
SEQ-CAL5@ 23J0974	55894.3	1.0	1.045	622.07	1.11	4.48%
SEQ-CAL6@ 23J0975	266606.0	5.0	4.983	1173.65	0.44	-0.33%
SEQ-CAL7@ 23J0976	535157.8	10.0	10.00	362.18	0.07	0.03%

Correlation Coef.: 0.999990 Slope: 53500 Intercept: 0.0

Calibration data for Cu 327.393 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	41.67	136.74	N/A
SEQ-CAL2@ 23J0971	909.5	0.01	0.0106	49.59	5.45	6.04%
SEQ-CAL3@ 23J0972	10744.9	0.125	0.1253	48.46	0.45	0.21%
SEQ-CAL4@ 23J0973	43258.5	0.5	0.5043	76.33	0.18	0.86%
SEQ-CAL5@ 23J0974	87777.8	1.0	1.023	860.51	0.98	2.33%
SEQ-CAL6@ 23J0975	422740.4	5.0	4.928	1821.27	0.43	-1.43%
SEQ-CAL7@ 23J0976	860612.7	10.0	10.03	3480.41	0.40	0.33%

Correlation Coef.: 0.999973 Slope: 85780 Intercept: 0.0

Calibration data for Fe 238.204 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	9.06	10.37	N/A
SEQ-CAL2@ 23J0971	1110.6	0.05	0.0534	10.64	0.96	6.87%
SEQ-CAL3@ 23J0972	2874.8	0.125	0.1383	21.87	0.76	10.65%
SEQ-CAL4@ 23J0973	11170.8	0.5	0.5374	68.81	0.62	7.49%
SEQ-CAL5@ 23J0974	22415.7	1.0	1.078	202.18	0.90	7.85%

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SEQ-CAL6@ 23J0975	103691.3	5.0	4.989	538.37	0.52	-0.23%
SEQ-CAL7@ 23J0976	206560.6	10.0	9.938	1116.87	0.54	-0.62%
SEQ-CAL8@ 23J0977	520107.1	25.0	25.02	1827.99	0.35	0.09%

Correlation Coef.: 0.999992 Slope: 20790 Intercept: 0.0

Calibration data for K 766.490 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	39.68	198.49	N/A
SEQ-CAL5@ 23J0974	28838.3	2.0	2.012	990.21	3.43	0.60%
SEQ-CAL6@ 23J0975	148187.7	10.0	10.34	3285.82	2.22	3.39%
SEQ-CAL7@ 23J0976	302690.2	20.0	21.12	8787.46	2.90	5.59%
SEQ-CAL8@ 23J0977	709261.5	50.0	49.48	5630.25	0.79	-1.03%

Correlation Coef.: 0.999729 Slope: 14330 Intercept: 0.0

Calibration data for Mg 285.213 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	10.05	15.34	N/A
SEQ-CAL2@ 23J0971	2697.8	0.05	0.0495	10.07	0.37	-1.02%
SEQ-CAL3@ 23J0972	13912.1	0.25	0.2552	120.06	0.86	2.09%
SEQ-CAL4@ 23J0973	55145.7	1.0	1.012	214.49	0.39	1.16%
SEQ-CAL5@ 23J0974	112762.8	2.0	2.069	981.60	0.87	3.43%
SEQ-CAL6@ 23J0975	545865.9	10.0	10.01	3306.44	0.61	0.14%
SEQ-CAL7@ 23J0976	1112400.6	20.0	20.41	8876.91	0.80	2.03%
SEQ-CAL8@ 23J0977	2716366.8	50.0	49.83	6250.93	0.23	-0.34%

Correlation Coef.: 0.999967 Slope: 54510 Intercept: 0.0

Calibration data for Mn 257.610 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	2.70	13.75	N/A
SEQ-CAL2@ 23J0971	1243.3	0.01	0.0109	9.96	0.80	8.71%
SEQ-CAL3@ 23J0972	15595.4	0.125	0.1364	119.02	0.76	9.09%
SEQ-CAL4@ 23J0973	60457.8	0.5	0.5286	243.98	0.40	5.73%
SEQ-CAL5@ 23J0974	120542.2	1.0	1.054	1112.04	0.92	5.40%
SEQ-CAL6@ 23J0975	574484.4	5.0	5.023	2773.86	0.48	0.46%
SEQ-CAL7@ 23J0976	1141539.3	10.0	9.981	6808.58	0.60	-0.19%

Correlation Coef.: 0.999981 Slope: 114400 Intercept: 0.0

Calibration data for Mo 202.031 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	2.21	31.51	N/A
SEQ-CAL2@ 23J0971	1002.7	0.05	0.0536	12.91	1.29	7.13%
SEQ-CAL3@ 23J0972	2493.8	0.125	0.1332	19.60	0.79	6.58%
SEQ-CAL4@ 23J0973	9688.9	0.5	0.5176	31.04	0.32	3.52%
SEQ-CAL5@ 23J0974	19145.0	1.0	1.023	243.79	1.27	2.28%
SEQ-CAL6@ 23J0975	93602.5	5.0	5.000	420.07	0.45	0.01%
SEQ-CAL7@ 23J0976	187121.7	10.0	9.996	224.20	0.12	-0.04%

Correlation Coef.: 0.999996 Slope: 18720 Intercept: 0.0

Calibration data for Na 589.592 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	188.20	1.58	N/A
SEQ-CAL5@ 23J0974	66210.7	2.0	1.994	990.77	1.50	-0.32%
SEQ-CAL6@ 23J0975	332176.3	10.0	10.00	3231.97	0.97	0.01%
SEQ-CAL7@ 23J0976	683045.0	20.0	20.57	10325.00	1.51	2.83%
SEQ-CAL8@ 23J0977	1653129.7	50.0	49.77	5053.14	0.31	-0.45%

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Correlation Coef.: 0.999938 Slope: 33210 Intercept: 0.0

Calibration data for Ni 231.604 Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	5.92	3.37	N/A
SEQ-CAL2@ 23J0971	396.1	0.01	0.0105	2.85	0.72	5.11%
SEQ-CAL3@ 23J0972	4950.8	0.125	0.1314	71.02	1.43	5.11%
SEQ-CAL4@ 23J0973	19898.2	0.5	0.5281	37.69	0.19	5.62%
SEQ-CAL5@ 23J0974	40219.1	1.0	1.067	527.33	1.31	6.74%
SEQ-CAL6@ 23J0975	188801.2	5.0	5.011	543.30	0.29	0.21%
SEQ-CAL7@ 23J0976	376288.9	10.0	9.986	328.44	0.09	-0.14%

Correlation Coef.: 0.999978 Slope: 37680 Intercept: 0.0

Calibration data for Pb 220.353 Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	3.42	10.50	N/A
SEQ-CAL2@ 23J0971	64.2	0.01	0.0121	6.82	10.61	21.28%
SEQ-CAL3@ 23J0972	753.0	0.125	0.1422	7.00	0.93	13.76%
SEQ-CAL4@ 23J0973	2883.0	0.5	0.5444	18.81	0.65	8.89%
SEQ-CAL5@ 23J0974	5736.5	1.0	1.083	22.06	0.38	8.33%
SEQ-CAL6@ 23J0975	26777.5	5.0	5.057	79.51	0.30	1.14%
SEQ-CAL7@ 23J0976	52746.4	10.0	9.961	486.73	0.92	-0.39%

Correlation Coef.: 0.999945 Slope: 5295 Intercept: 0.0

Calibration data for Sb 206.836 Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	4.07	14.21	N/A
SEQ-CAL2@ 23J0971	141.4	0.05	0.0461	4.85	3.43	-7.77%
SEQ-CAL3@ 23J0972	393.0	0.125	0.1282	5.18	1.32	2.53%
SEQ-CAL4@ 23J0973	1538.7	0.5	0.5018	12.95	0.84	0.37%
SEQ-CAL5@ 23J0974	3032.3	1.0	0.9890	20.42	0.67	-1.10%
SEQ-CAL6@ 23J0975	15213.0	5.0	4.962	65.68	0.43	-0.77%
SEQ-CAL7@ 23J0976	30723.4	10.0	10.02	313.68	1.02	0.20%

Correlation Coef.: 0.999992 Slope: 3066 Intercept: 0.0

Calibration data for Se 196.026 Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	1.05	12.42	N/A
SEQ-CAL2@ 23J0971	92.3	0.05	0.0527	1.28	1.39	5.41%
SEQ-CAL3@ 23J0972	226.7	0.125	0.1294	5.61	2.47	3.52%
SEQ-CAL4@ 23J0973	881.9	0.5	0.5034	2.35	0.27	0.68%
SEQ-CAL5@ 23J0974	1772.8	1.0	1.012	14.55	0.82	1.19%
SEQ-CAL6@ 23J0975	8684.1	5.0	4.957	17.92	0.21	-0.86%
SEQ-CAL7@ 23J0976	17554.9	10.0	10.02	221.09	1.26	0.20%

Correlation Coef.: 0.999990 Slope: 1752 Intercept: 0.0

Calibration data for Sn 189.927 Equation: Linear Through Zero

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	2.63	453.63	N/A
SEQ-CAL2@ 23J0971	595.1	0.1	0.1043	5.87	0.99	4.31%
SEQ-CAL3@ 23J0972	780.6	0.125	0.1368	7.84	1.00	9.45%
SEQ-CAL4@ 23J0973	3017.3	0.5	0.5289	21.01	0.70	5.77%
SEQ-CAL5@ 23J0974	5925.7	1.0	1.039	38.90	0.66	3.86%
SEQ-CAL6@ 23J0975	28744.7	5.0	5.038	76.92	0.27	0.76%
SEQ-CAL7@ 23J0976	56912.8	10.0	9.975	385.16	0.68	-0.25%

Correlation Coef.: 0.999982 Slope: 5705 Intercept: 0.0

Calibration data for Ti 337.279 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	2.97	1.33	N/A
SEQ-CAL2@ 23J0971	2183.2	0.02	0.0219	6.64	0.30	9.54%
SEQ-CAL3@ 23J0972	13184.9	0.125	0.1323	109.68	0.83	5.84%
SEQ-CAL4@ 23J0973	51157.5	0.5	0.5133	351.96	0.69	2.67%
SEQ-CAL5@ 23J0974	100960.4	1.0	1.013	942.29	0.93	1.31%
SEQ-CAL6@ 23J0975	495149.5	5.0	4.969	1074.18	0.22	-0.63%
SEQ-CAL7@ 23J0976	997940.6	10.0	10.01	1303.61	0.13	0.14%

Correlation Coef.: 0.999994 Slope: 99660 Intercept: 0.0

Calibration data for Tl 351.924 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	9.10	144.82	N/A
SEQ-CAL2@ 23J0971	114.4	0.05	0.0467	3.96	3.46	-6.61%
SEQ-CAL3@ 23J0972	148.6	0.0625	0.0607	4.35	2.93	-2.96%
SEQ-CAL4@ 23J0973	595.2	0.25	0.2429	1.96	0.33	-2.86%
SEQ-CAL5@ 23J0974	1233.8	0.5	0.5035	3.52	0.29	0.69%
SEQ-CAL6@ 23J0975	6049.4	2.5	2.468	78.95	1.31	-1.26%
SEQ-CAL7@ 23J0976	12292.3	5.0	5.016	158.75	1.29	0.32%

Correlation Coef.: 0.999979 Slope: 2451 Intercept: 0.0

Calibration data for V 290.880 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	12.75	0.89	N/A
SEQ-CAL2@ 23J0971	936.2	0.01	0.0105	61.38	6.56	4.70%
SEQ-CAL3@ 23J0972	11409.0	0.125	0.1276	66.82	0.59	2.08%
SEQ-CAL4@ 23J0973	45148.2	0.5	0.5049	44.45	0.10	0.98%
SEQ-CAL5@ 23J0974	91686.4	1.0	1.025	942.62	1.03	2.54%
SEQ-CAL6@ 23J0975	442799.5	5.0	4.952	1912.01	0.43	-0.96%
SEQ-CAL7@ 23J0976	896051.8	10.0	10.02	1050.46	0.12	0.21%

Correlation Coef.: 0.999986 Slope: 89420 Intercept: 0.0

Calibration data for Zn 206.200 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	3.33	78.56	N/A
SEQ-CAL2@ 23J0971	422.8	0.01	0.0107	5.25	1.24	6.86%
SEQ-CAL3@ 23J0972	5098.5	0.125	0.1288	20.34	0.40	3.08%
SEQ-CAL4@ 23J0973	20441.5	0.5	0.5166	83.71	0.41	3.32%
SEQ-CAL5@ 23J0974	41546.5	1.0	1.050	527.78	1.27	5.00%
SEQ-CAL6@ 23J0975	197908.7	5.0	5.001	734.09	0.37	0.03%
SEQ-CAL7@ 23J0976	395438.0	10.0	9.993	744.77	0.19	-0.07%

Correlation Coef.: 0.999989 Slope: 39570 Intercept: 0.0

Calibration data for Zr 343.823 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	29.89	36.69	N/A
SEQ-CAL3@ 23J0972	25895.1	0.125	0.1261	110.57	0.43	0.90%
SEQ-CAL4@ 23J0973	103226.5	0.5	0.5028	60.23	0.06	0.55%
SEQ-CAL5@ 23J0974	206790.5	1.0	1.007	1931.07	0.93	0.72%
SEQ-CAL6@ 23J0975	1022274.0	5.0	4.979	4726.44	0.46	-0.42%
SEQ-CAL7@ 23J0976	2055207.8	10.0	10.01	2735.84	0.13	0.10%

Correlation Coef.: 0.999998 Slope: 205300 Intercept: 0.0

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Batch ID: AVIO 500
Sequence No.: 1
Sample ID: SEQ-CAL2@ 23J0971
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample):

Autosampler Location: 2
Date Collected: 5/27/2024 1:15:42 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-CAL2@ 23J0971

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y radial	627929.2	638.74	0.10%	99.1	%
Y axial	2612150.8	16304.08	0.62%	96.5	%
Ag 328.068†	358.5	9.23	2.58%	[0.01]	mg/L
Al 396.153†	1054.9	17.76	1.68%	[0.05]	mg/L
As 188.979†	15.4	2.84	18.44%	[0.01]	mg/L
B 208.889†	794.0	5.19	0.65%	[0.1]	mg/L
Ba 233.527†	1450.7	13.26	0.91%	[0.05]	mg/L
Be 313.107†	7914.4	15.79	0.20%	[0.004]	mg/L
Ca 317.933†	12480.2	35.04	0.28%	[0.5]	mg/L
Cd 228.802†	109.7	7.15	6.51%	[0.004]	mg/L
Co 228.616†	228.7	1.98	0.87%	[0.01]	mg/L
Cr 267.716†	585.1	4.18	0.71%	[0.01]	mg/L
Cu 327.393†	928.5	43.86	4.72%	[0.01]	mg/L
Fe 238.204†	1090.5	10.86	1.00%	[0.05]	mg/L
Mg 285.213†	2670.3	1.11	0.04%	[0.05]	mg/L
Mn 257.610†	1193.0	11.38	0.95%	[0.01]	mg/L
Mo 202.031†	1016.9	16.80	1.65%	[0.05]	mg/L
Ni 231.604†	398.5	7.17	1.80%	[0.01]	mg/L
Pb 220.353†	59.5	4.36	7.32%	[0.01]	mg/L
Sb 206.836†	142.5	2.94	2.06%	[0.05]	mg/L
Se 196.026†	97.7	4.94	5.05%	[0.05]	mg/L
Sn 189.927†	607.4	4.30	0.71%	[0.1]	mg/L
Ti 337.279†	2130.3	22.96	1.08%	[0.02]	mg/L
Tl 351.924†	116.3	2.85	2.45%	[0.05]	mg/L
V 290.880†	959.6	62.31	6.49%	[0.01]	mg/L
Zn 206.200†	477.7	11.62	2.43%	[0.01]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	6	Lin Thru 0	0.0	44740	0.00000	0.999968	
Al 396.153	7	Lin Thru 0	0.0	24190	0.00000	0.999970	
As 188.979	6	Lin Thru 0	0.0	1535	0.00000	0.999963	
B 208.889	6	Lin Thru 0	0.0	7998	0.00000	0.999996	
Ba 233.527	6	Lin Thru 0	0.0	28860	0.00000	0.999976	
Be 313.107	6	Lin Thru 0	0.0	1965000	0.00000	0.999992	
Ca 317.933	6	Lin Thru 0	0.0	25160	0.00000	0.999983	
Cd 228.802	6	Lin Thru 0	0.0	26170	0.00000	0.999993	
Co 228.616	6	Lin Thru 0	0.0	23150	0.00000	0.999985	
Cr 267.716	6	Lin Thru 0	0.0	53500	0.00000	0.999990	
Cu 327.393	6	Lin Thru 0	0.0	85780	0.00000	0.999973	
Fe 238.204	7	Lin Thru 0	0.0	20790	0.00000	0.999992	
K 766.490	4	Lin Thru 0	0.0	14330	0.00000	0.999729	
Mg 285.213	7	Lin Thru 0	0.0	54510	0.00000	0.999967	
Mn 257.610	6	Lin Thru 0	0.0	114400	0.00000	0.999981	
Mo 202.031	6	Lin Thru 0	0.0	18720	0.00000	0.999996	
Na 589.592	4	Lin Thru 0	0.0	33210	0.00000	0.999938	
Ni 231.604	6	Lin Thru 0	0.0	37680	0.00000	0.999978	
Pb 220.353	6	Lin Thru 0	0.0	5295	0.00000	0.999945	
Sb 206.836	6	Lin Thru 0	0.0	3066	0.00000	0.999992	
Se 196.026	6	Lin Thru 0	0.0	1752	0.00000	0.999990	
Sn 189.927	6	Lin Thru 0	0.0	5705	0.00000	0.999982	
Ti 337.279	6	Lin Thru 0	0.0	99660	0.00000	0.999994	
Tl 351.924	6	Lin Thru 0	0.0	2451	0.00000	0.999979	
V 290.880	6	Lin Thru 0	0.0	89420	0.00000	0.999986	

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Zn 206.200	6	Lin Thru 0	0.0	39570	0.00000	0.999989
Zr 343.823	5	Lin Thru 0	0.0	205300	0.00000	0.999998

Calibration data for Ag 328.068 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	18.37	7.96	N/A
SEQ-CAL2@ 23J0971	358.5	0.01	0.0080	9.23	2.58	-19.87%
SEQ-CAL3@ 23J0972	2919.0	0.0625	0.0652	61.79	2.12	4.40%
SEQ-CAL4@ 23J0973	11629.2	0.25	0.2599	52.01	0.45	3.98%
SEQ-CAL5@ 23J0974	24006.9	0.5	0.5366	302.82	1.26	7.33%
SEQ-CAL6@ 23J0975	112703.9	2.5	2.519	616.01	0.55	0.77%
SEQ-CAL7@ 23J0976	223064.8	5.0	4.986	339.71	0.15	-0.28%

Correlation Coef.: 0.999968 Slope: 44740 Intercept: 0.0

Calibration data for Al 396.153 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	95.96	87.86	N/A
SEQ-CAL2@ 23J0971	1054.9	0.05	0.0436	17.76	1.68	-12.80%
SEQ-CAL3@ 23J0972	5408.1	0.25	0.2235	50.62	0.94	-10.59%
SEQ-CAL4@ 23J0973	22258.6	1.0	0.9200	460.05	2.07	-8.00%
SEQ-CAL5@ 23J0974	45273.7	2.0	1.871	550.05	1.21	-6.44%
SEQ-CAL6@ 23J0975	234555.8	10.0	9.694	5095.05	2.17	-3.06%
SEQ-CAL7@ 23J0976	490060.6	20.0	20.25	10690.16	2.18	1.27%
SEQ-CAL8@ 23J0977	1208919.2	50.0	49.97	2345.22	0.19	-0.07%

Correlation Coef.: 0.999970 Slope: 24190 Intercept: 0.0

Calibration data for As 188.979 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	2.07	38.83	N/A
SEQ-CAL2@ 23J0971	15.4	0.01	0.0100	2.84	18.44	0.35%
SEQ-CAL3@ 23J0972	188.7	0.125	0.1229	7.35	3.90	-1.67%
SEQ-CAL4@ 23J0973	754.6	0.5	0.4916	8.10	1.07	-1.68%
SEQ-CAL5@ 23J0974	1535.6	1.0	1.000	9.22	0.60	0.05%
SEQ-CAL6@ 23J0975	7542.0	5.0	4.914	3.58	0.05	-1.72%
SEQ-CAL7@ 23J0976	15415.5	10.0	10.04	120.59	0.78	0.44%

Correlation Coef.: 0.999963 Slope: 1535 Intercept: 0.0

Calibration data for B 208.889 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	1.28	3.20	N/A
SEQ-CAL2@ 23J0971	794.0	0.1	0.0993	5.19	0.65	-0.72%
SEQ-CAL3@ 23J0972	1005.1	0.125	0.1257	7.38	0.73	0.54%
SEQ-CAL4@ 23J0973	3979.1	0.5	0.4975	29.77	0.75	-0.49%
SEQ-CAL5@ 23J0974	7888.5	1.0	0.9864	41.12	0.52	-1.36%
SEQ-CAL6@ 23J0975	39799.2	5.0	4.976	252.72	0.63	-0.47%
SEQ-CAL7@ 23J0976	80081.0	10.0	10.01	793.76	0.99	0.13%

Correlation Coef.: 0.999996 Slope: 7998 Intercept: 0.0

Calibration data for Ba 233.527 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	9.18	>999.9%	N/A
SEQ-CAL2@ 23J0971	1450.7	0.05	0.0503	13.26	0.91	0.53%
SEQ-CAL3@ 23J0972	3667.3	0.125	0.1271	25.56	0.70	1.65%
SEQ-CAL4@ 23J0973	14383.7	0.5	0.4984	76.53	0.53	-0.32%
SEQ-CAL5@ 23J0974	29002.7	1.0	1.005	62.43	0.22	0.49%

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SEQ-CAL6@ 23J0975	142299.9	5.0	4.930	1308.20	0.92	-1.39%
SEQ-CAL7@ 23J0976	289602.4	10.0	10.03	1013.11	0.35	0.34%

Correlation Coef.: 0.999976 Slope: 28860 Intercept: 0.0

Calibration data for Be 313.107 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	44.64	1.47	N/A
SEQ-CAL2@ 23J0971	7914.4	0.004	0.0040	15.79	0.20	0.68%
SEQ-CAL3@ 23J0972	256677.7	0.125	0.1306	1753.92	0.68	4.49%
SEQ-CAL4@ 23J0973	1013420.2	0.5	0.5157	5792.00	0.57	3.14%
SEQ-CAL5@ 23J0974	2045705.2	1.0	1.041	9531.28	0.47	4.10%
SEQ-CAL6@ 23J0975	9827790.4	5.0	5.001	48203.06	0.49	0.02%
SEQ-CAL7@ 23J0976	19641074.5	10.0	9.995	34061.76	0.17	-0.05%

Correlation Coef.: 0.999992 Slope: 1965000 Intercept: 0.0

Calibration data for Ca 317.933 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	8.72	0.17	N/A
SEQ-CAL2@ 23J0971	12480.2	0.5	0.4960	35.04	0.28	-0.79%
SEQ-CAL4@ 23J0973	26055.1	1.0	1.036	208.92	0.80	3.56%
SEQ-CAL5@ 23J0974	52543.7	2.0	2.088	659.24	1.25	4.42%
SEQ-CAL6@ 23J0975	246065.7	10.0	9.780	348.18	0.14	-2.20%
SEQ-CAL7@ 23J0976	498727.4	20.0	19.82	1216.97	0.24	-0.89%
SEQ-CAL8@ 23J0977	1260786.2	50.0	50.11	4220.00	0.33	0.22%

Correlation Coef.: 0.999983 Slope: 25160 Intercept: 0.0

Calibration data for Cd 228.802 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	3.69	7.35	N/A
SEQ-CAL2@ 23J0971	109.7	0.004	0.0042	7.15	6.51	4.84%
SEQ-CAL3@ 23J0972	3400.2	0.125	0.1299	26.37	0.78	3.95%
SEQ-CAL4@ 23J0973	13355.2	0.5	0.5103	54.54	0.41	2.07%
SEQ-CAL5@ 23J0974	27037.6	1.0	1.033	274.01	1.01	3.32%
SEQ-CAL6@ 23J0975	130212.5	5.0	4.976	558.27	0.43	-0.48%
SEQ-CAL7@ 23J0976	261904.8	10.0	10.01	113.11	0.04	0.08%

Correlation Coef.: 0.999993 Slope: 26170 Intercept: 0.0

Calibration data for Co 228.616 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	3.49	21.51	N/A
SEQ-CAL2@ 23J0971	228.7	0.01	0.0099	1.98	0.87	-1.19%
SEQ-CAL3@ 23J0972	3034.8	0.125	0.1311	29.63	0.98	4.89%
SEQ-CAL4@ 23J0973	12040.9	0.5	0.5202	13.83	0.11	4.04%
SEQ-CAL5@ 23J0974	24461.4	1.0	1.057	222.01	0.91	5.68%
SEQ-CAL6@ 23J0975	115654.3	5.0	4.997	465.14	0.40	-0.07%
SEQ-CAL7@ 23J0976	231348.4	10.0	9.995	134.33	0.06	-0.05%

Correlation Coef.: 0.999985 Slope: 23150 Intercept: 0.0

Calibration data for Cr 267.716 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	5.05	11.95	N/A
SEQ-CAL2@ 23J0971	585.1	0.01	0.0109	4.18	0.71	9.36%
SEQ-CAL3@ 23J0972	7003.8	0.125	0.1309	44.72	0.64	4.73%
SEQ-CAL4@ 23J0973	27663.8	0.5	0.5171	34.78	0.13	3.42%
SEQ-CAL5@ 23J0974	55894.3	1.0	1.045	622.07	1.11	4.48%

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SEQ-CAL6@ 23J0975	266606.0	5.0	4.983	1173.65	0.44	-0.33%
SEQ-CAL7@ 23J0976	535157.8	10.0	10.00	362.18	0.07	0.03%

Correlation Coef.: 0.999990 Slope: 53500 Intercept: 0.0

Calibration data for Cu 327.393 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	41.67	136.74	N/A
SEQ-CAL2@ 23J0971	928.5	0.01	0.0108	43.86	4.72	8.24%
SEQ-CAL3@ 23J0972	10744.9	0.125	0.1253	48.46	0.45	0.21%
SEQ-CAL4@ 23J0973	43258.5	0.5	0.5043	76.33	0.18	0.86%
SEQ-CAL5@ 23J0974	87777.8	1.0	1.023	860.51	0.98	2.33%
SEQ-CAL6@ 23J0975	422740.4	5.0	4.928	1821.27	0.43	-1.43%
SEQ-CAL7@ 23J0976	860612.7	10.0	10.03	3480.41	0.40	0.33%

Correlation Coef.: 0.999973 Slope: 85780 Intercept: 0.0

Calibration data for Fe 238.204 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	9.06	10.37	N/A
SEQ-CAL2@ 23J0971	1090.5	0.05	0.0525	10.86	1.00	4.93%
SEQ-CAL3@ 23J0972	2874.8	0.125	0.1383	21.87	0.76	10.65%
SEQ-CAL4@ 23J0973	11170.8	0.5	0.5374	68.81	0.62	7.49%
SEQ-CAL5@ 23J0974	22415.7	1.0	1.078	202.18	0.90	7.85%
SEQ-CAL6@ 23J0975	103691.3	5.0	4.989	538.37	0.52	-0.23%
SEQ-CAL7@ 23J0976	206560.6	10.0	9.938	1116.87	0.54	-0.62%
SEQ-CAL8@ 23J0977	520107.1	25.0	25.02	1827.99	0.35	0.09%

Correlation Coef.: 0.999992 Slope: 20790 Intercept: 0.0

Calibration data for K 766.490 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	39.68	198.49	N/A
SEQ-CAL5@ 23J0974	28838.3	2.0	2.012	990.21	3.43	0.60%
SEQ-CAL6@ 23J0975	148187.7	10.0	10.34	3285.82	2.22	3.39%
SEQ-CAL7@ 23J0976	302690.2	20.0	21.12	8787.46	2.90	5.59%
SEQ-CAL8@ 23J0977	709261.5	50.0	49.48	5630.25	0.79	-1.03%

Correlation Coef.: 0.999729 Slope: 14330 Intercept: 0.0

Calibration data for Mg 285.213 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	10.05	15.34	N/A
SEQ-CAL2@ 23J0971	2670.3	0.05	0.0490	1.11	0.04	-2.03%
SEQ-CAL3@ 23J0972	13912.1	0.25	0.2552	120.06	0.86	2.09%
SEQ-CAL4@ 23J0973	55145.7	1.0	1.012	214.49	0.39	1.16%
SEQ-CAL5@ 23J0974	112762.8	2.0	2.069	981.60	0.87	3.43%
SEQ-CAL6@ 23J0975	545865.9	10.0	10.01	3306.44	0.61	0.14%
SEQ-CAL7@ 23J0976	1112400.6	20.0	20.41	8876.91	0.80	2.03%
SEQ-CAL8@ 23J0977	2716366.8	50.0	49.83	6250.93	0.23	-0.34%

Correlation Coef.: 0.999967 Slope: 54510 Intercept: 0.0

Calibration data for Mn 257.610 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	2.70	13.75	N/A
SEQ-CAL2@ 23J0971	1193.0	0.01	0.0104	11.38	0.95	4.32%
SEQ-CAL3@ 23J0972	15595.4	0.125	0.1364	119.02	0.76	9.09%
SEQ-CAL4@ 23J0973	60457.8	0.5	0.5286	243.98	0.40	5.73%
SEQ-CAL5@ 23J0974	120542.2	1.0	1.054	1112.04	0.92	5.40%

SEQ-CAL6@ 23J0975	574484.4	5.0	5.023	2773.86	0.48	0.46%
SEQ-CAL7@ 23J0976	1141539.3	10.0	9.981	6808.58	0.60	-0.19%

Correlation Coef.: 0.999981 Slope: 114400 Intercept: 0.0

Calibration data for Mo 202.031 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	2.21	31.51	N/A
SEQ-CAL2@ 23J0971	1016.9	0.05	0.0543	16.80	1.65	8.65%
SEQ-CAL3@ 23J0972	2493.8	0.125	0.1332	19.60	0.79	6.58%
SEQ-CAL4@ 23J0973	9688.9	0.5	0.5176	31.04	0.32	3.52%
SEQ-CAL5@ 23J0974	19145.0	1.0	1.023	243.79	1.27	2.28%
SEQ-CAL6@ 23J0975	93602.5	5.0	5.000	420.07	0.45	0.01%
SEQ-CAL7@ 23J0976	187121.7	10.0	9.996	224.20	0.12	-0.04%

Correlation Coef.: 0.999996 Slope: 18720 Intercept: 0.0

Calibration data for Na 589.592 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	188.20	1.58	N/A
SEQ-CAL5@ 23J0974	66210.7	2.0	1.994	990.77	1.50	-0.32%
SEQ-CAL6@ 23J0975	332176.3	10.0	10.00	3231.97	0.97	0.01%
SEQ-CAL7@ 23J0976	683045.0	20.0	20.57	10325.00	1.51	2.83%
SEQ-CAL8@ 23J0977	1653129.7	50.0	49.77	5053.14	0.31	-0.45%

Correlation Coef.: 0.999938 Slope: 33210 Intercept: 0.0

Calibration data for Ni 231.604 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	5.92	3.37	N/A
SEQ-CAL2@ 23J0971	398.5	0.01	0.0106	7.17	1.80	5.76%
SEQ-CAL3@ 23J0972	4950.8	0.125	0.1314	71.02	1.43	5.11%
SEQ-CAL4@ 23J0973	19898.2	0.5	0.5281	37.69	0.19	5.62%
SEQ-CAL5@ 23J0974	40219.1	1.0	1.067	527.33	1.31	6.74%
SEQ-CAL6@ 23J0975	188801.2	5.0	5.011	543.30	0.29	0.21%
SEQ-CAL7@ 23J0976	376288.9	10.0	9.986	328.44	0.09	-0.14%

Correlation Coef.: 0.999978 Slope: 37680 Intercept: 0.0

Calibration data for Pb 220.353 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	3.42	10.50	N/A
SEQ-CAL2@ 23J0971	59.5	0.01	0.0112	4.36	7.32	12.36%
SEQ-CAL3@ 23J0972	753.0	0.125	0.1422	7.00	0.93	13.76%
SEQ-CAL4@ 23J0973	2883.0	0.5	0.5444	18.81	0.65	8.89%
SEQ-CAL5@ 23J0974	5736.5	1.0	1.083	22.06	0.38	8.33%
SEQ-CAL6@ 23J0975	26777.5	5.0	5.057	79.51	0.30	1.14%
SEQ-CAL7@ 23J0976	52746.4	10.0	9.961	486.73	0.92	-0.39%

Correlation Coef.: 0.999945 Slope: 5295 Intercept: 0.0

Calibration data for Sb 206.836 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	4.07	14.21	N/A
SEQ-CAL2@ 23J0971	142.5	0.05	0.0465	2.94	2.06	-7.04%
SEQ-CAL3@ 23J0972	393.0	0.125	0.1282	5.18	1.32	2.53%
SEQ-CAL4@ 23J0973	1538.7	0.5	0.5018	12.95	0.84	0.37%
SEQ-CAL5@ 23J0974	3032.3	1.0	0.9890	20.42	0.67	-1.10%
SEQ-CAL6@ 23J0975	15213.0	5.0	4.962	65.68	0.43	-0.77%
SEQ-CAL7@ 23J0976	30723.4	10.0	10.02	313.68	1.02	0.20%

Correlation Coef.: 0.999992 Slope: 3066 Intercept: 0.0

Calibration data for Se 196.026 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	1.05	12.42	N/A
SEQ-CAL2@ 23J0971	97.7	0.05	0.0557	4.94	5.05	11.49%
SEQ-CAL3@ 23J0972	226.7	0.125	0.1294	5.61	2.47	3.52%
SEQ-CAL4@ 23J0973	881.9	0.5	0.5034	2.35	0.27	0.68%
SEQ-CAL5@ 23J0974	1772.8	1.0	1.012	14.55	0.82	1.19%
SEQ-CAL6@ 23J0975	8684.1	5.0	4.957	17.92	0.21	-0.86%
SEQ-CAL7@ 23J0976	17554.9	10.0	10.02	221.09	1.26	0.20%

Correlation Coef.: 0.999990 Slope: 1752 Intercept: 0.0

Calibration data for Sn 189.927 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	2.63	453.63	N/A
SEQ-CAL2@ 23J0971	607.4	0.1	0.1065	4.30	0.71	6.46%
SEQ-CAL3@ 23J0972	780.6	0.125	0.1368	7.84	1.00	9.45%
SEQ-CAL4@ 23J0973	3017.3	0.5	0.5289	21.01	0.70	5.77%
SEQ-CAL5@ 23J0974	5925.7	1.0	1.039	38.90	0.66	3.86%
SEQ-CAL6@ 23J0975	28744.7	5.0	5.038	76.92	0.27	0.76%
SEQ-CAL7@ 23J0976	56912.8	10.0	9.975	385.16	0.68	-0.25%

Correlation Coef.: 0.999982 Slope: 5705 Intercept: 0.0

Calibration data for Ti 337.279 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	2.97	1.33	N/A
SEQ-CAL2@ 23J0971	2130.3	0.02	0.0214	22.96	1.08	6.88%
SEQ-CAL3@ 23J0972	13184.9	0.125	0.1323	109.68	0.83	5.84%
SEQ-CAL4@ 23J0973	51157.5	0.5	0.5133	351.96	0.69	2.67%
SEQ-CAL5@ 23J0974	100960.4	1.0	1.013	942.29	0.93	1.31%
SEQ-CAL6@ 23J0975	495149.5	5.0	4.969	1074.18	0.22	-0.63%
SEQ-CAL7@ 23J0976	997940.6	10.0	10.01	1303.61	0.13	0.14%

Correlation Coef.: 0.999994 Slope: 99660 Intercept: 0.0

Calibration data for Tl 351.924 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	9.10	144.82	N/A
SEQ-CAL2@ 23J0971	116.3	0.05	0.0475	2.85	2.45	-5.09%
SEQ-CAL3@ 23J0972	148.6	0.0625	0.0607	4.35	2.93	-2.96%
SEQ-CAL4@ 23J0973	595.2	0.25	0.2429	1.96	0.33	-2.86%
SEQ-CAL5@ 23J0974	1233.8	0.5	0.5035	3.52	0.29	0.69%
SEQ-CAL6@ 23J0975	6049.4	2.5	2.468	78.95	1.31	-1.26%
SEQ-CAL7@ 23J0976	12292.3	5.0	5.016	158.75	1.29	0.32%

Correlation Coef.: 0.999979 Slope: 2451 Intercept: 0.0

Calibration data for V 290.880 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	12.75	0.89	N/A
SEQ-CAL2@ 23J0971	959.6	0.01	0.0107	62.31	6.49	7.32%
SEQ-CAL3@ 23J0972	11409.0	0.125	0.1276	66.82	0.59	2.08%
SEQ-CAL4@ 23J0973	45148.2	0.5	0.5049	44.45	0.10	0.98%
SEQ-CAL5@ 23J0974	91686.4	1.0	1.025	942.62	1.03	2.54%
SEQ-CAL6@ 23J0975	442799.5	5.0	4.952	1912.01	0.43	-0.96%
SEQ-CAL7@ 23J0976	896051.8	10.0	10.02	1050.46	0.12	0.21%

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Correlation Coef.: 0.999986 Slope: 89420 Intercept: 0.0

Calibration data for Zn 206.200 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	3.33	78.56	N/A
SEQ-CAL2@ 23J0971	477.7	0.01	0.0121	11.62	2.43	20.72%
SEQ-CAL3@ 23J0972	5098.5	0.125	0.1288	20.34	0.40	3.08%
SEQ-CAL4@ 23J0973	20441.5	0.5	0.5166	83.71	0.41	3.32%
SEQ-CAL5@ 23J0974	41546.5	1.0	1.050	527.78	1.27	4.99%
SEQ-CAL6@ 23J0975	197908.7	5.0	5.001	734.09	0.37	0.03%
SEQ-CAL7@ 23J0976	395438.0	10.0	9.993	744.77	0.19	-0.07%

Correlation Coef.: 0.999989 Slope: 39570 Intercept: 0.0

Calibration data for Zr 343.823 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	29.89	36.69	N/A
SEQ-CAL3@ 23J0972	25895.1	0.125	0.1261	110.57	0.43	0.90%
SEQ-CAL4@ 23J0973	103226.5	0.5	0.5028	60.23	0.06	0.55%
SEQ-CAL5@ 23J0974	206790.5	1.0	1.007	1931.07	0.93	0.72%
SEQ-CAL6@ 23J0975	1022274.0	5.0	4.979	4726.44	0.46	-0.42%
SEQ-CAL7@ 23J0976	2055207.8	10.0	10.01	2735.84	0.13	0.10%

Correlation Coef.: 0.999998 Slope: 205300 Intercept: 0.0

Calibration curve edited: standards were reanalyzed.

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Batch ID: AVIO 500
Sequence No.: 1 **Autosampler Location: 2**
Sample ID: SEQ-CAL2@ 23J0971 **Date Collected: 5/27/2024 1:49:32 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample):

Mean Data: SEQ-CAL2@ 23J0971

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y radial	637150.3	4962.43	0.78%	101	%
Y axial	2653183.1	19064.90	0.72%	98.0	%
Ag 328.068†	338.3	23.09	6.83%	[0.01]	mg/L
Al 396.153†	1025.6	10.88	1.06%	[0.05]	mg/L
As 188.979†	13.8	5.02	36.41%	[0.01]	mg/L
B 208.889†	771.8	6.74	0.87%	[0.1]	mg/L
Ba 233.527†	1420.9	11.60	0.82%	[0.05]	mg/L
Be 313.107†	7465.3	70.91	0.95%	[0.004]	mg/L
Ca 317.933†	12139.6	145.64	1.20%	[0.5]	mg/L
Cd 228.802†	107.1	4.09	3.82%	[0.004]	mg/L
Co 228.616†	223.9	1.91	0.85%	[0.01]	mg/L
Cr 267.716†	570.6	5.89	1.03%	[0.01]	mg/L
Cu 327.393†	769.2	21.25	2.76%	[0.01]	mg/L
Fe 238.204†	1067.8	10.63	1.00%	[0.05]	mg/L
Mg 285.213†	2622.2	2.31	0.09%	[0.05]	mg/L
Mn 257.610†	1165.5	5.16	0.44%	[0.01]	mg/L
Mo 202.031†	996.1	11.69	1.17%	[0.05]	mg/L
Ni 231.604†	383.2	9.68	2.53%	[0.01]	mg/L
Pb 220.353†	58.9	6.46	10.97%	[0.01]	mg/L
Sb 206.836†	143.6	5.03	3.50%	[0.05]	mg/L
Se 196.026†	91.4	2.55	2.79%	[0.05]	mg/L
Sn 189.927†	592.5	4.19	0.71%	[0.1]	mg/L
Ti 337.279†	2093.0	9.10	0.43%	[0.02]	mg/L
Tl 351.924†	120.2	6.36	5.29%	[0.05]	mg/L
V 290.880†	938.5	43.36	4.62%	[0.01]	mg/L
Zn 206.200†	435.5	3.71	0.85%	[0.01]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	6	Lin Thru 0	0.0	44740	0.00000	0.999968	
Al 396.153	7	Lin Thru 0	0.0	24190	0.00000	0.999970	
As 188.979	6	Lin Thru 0	0.0	1535	0.00000	0.999963	
B 208.889	6	Lin Thru 0	0.0	7997	0.00000	0.999996	
Ba 233.527	6	Lin Thru 0	0.0	28860	0.00000	0.999976	
Be 313.107	6	Lin Thru 0	0.0	1965000	0.00000	0.999992	
Ca 317.933	6	Lin Thru 0	0.0	25160	0.00000	0.999983	
Cd 228.802	6	Lin Thru 0	0.0	26170	0.00000	0.999993	
Co 228.616	6	Lin Thru 0	0.0	23150	0.00000	0.999985	
Cr 267.716	6	Lin Thru 0	0.0	53500	0.00000	0.999990	
Cu 327.393	6	Lin Thru 0	0.0	85780	0.00000	0.999973	
Fe 238.204	7	Lin Thru 0	0.0	20790	0.00000	0.999992	
K 766.490	4	Lin Thru 0	0.0	14330	0.00000	0.999729	
Mg 285.213	7	Lin Thru 0	0.0	54510	0.00000	0.999967	
Mn 257.610	6	Lin Thru 0	0.0	114400	0.00000	0.999981	
Mo 202.031	6	Lin Thru 0	0.0	18720	0.00000	0.999996	
Na 589.592	4	Lin Thru 0	0.0	33210	0.00000	0.999938	
Ni 231.604	6	Lin Thru 0	0.0	37680	0.00000	0.999978	
Pb 220.353	6	Lin Thru 0	0.0	5295	0.00000	0.999945	
Sb 206.836	6	Lin Thru 0	0.0	3066	0.00000	0.999992	
Se 196.026	6	Lin Thru 0	0.0	1752	0.00000	0.999990	
Sn 189.927	6	Lin Thru 0	0.0	5705	0.00000	0.999982	
Ti 337.279	6	Lin Thru 0	0.0	99660	0.00000	0.999994	

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Tl 351.924	6	Lin Thru 0	0.0	2451	0.00000	0.999979
V 290.880	6	Lin Thru 0	0.0	89420	0.00000	0.999986
Zn 206.200	6	Lin Thru 0	0.0	39570	0.00000	0.999989
Zr 343.823	5	Lin Thru 0	0.0	205300	0.00000	0.999998

Calibration data for Ag 328.068 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	18.37	7.96	N/A
SEQ-CAL2@ 23J0971	338.3	0.01	0.0076	23.09	6.83	-24.38%
SEQ-CAL3@ 23J0972	2919.0	0.0625	0.0652	61.79	2.12	4.40%
SEQ-CAL4@ 23J0973	11629.2	0.25	0.2599	52.01	0.45	3.98%
SEQ-CAL5@ 23J0974	24006.9	0.5	0.5366	302.82	1.26	7.33%
SEQ-CAL6@ 23J0975	112703.9	2.5	2.519	616.01	0.55	0.77%
SEQ-CAL7@ 23J0976	223064.8	5.0	4.986	339.71	0.15	-0.28%

Correlation Coef.: 0.999968 Slope: 44740 Intercept: 0.0

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Calibration data for Al 396.153 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	95.96	87.86	N/A
SEQ-CAL2@ 23J0971	1025.6	0.05	0.0424	10.88	1.06	-15.22%
SEQ-CAL3@ 23J0972	5408.1	0.25	0.2235	50.62	0.94	-10.59%
SEQ-CAL4@ 23J0973	22258.6	1.0	0.9200	460.05	2.07	-8.00%
SEQ-CAL5@ 23J0974	45273.7	2.0	1.871	550.05	1.21	-6.44%
SEQ-CAL6@ 23J0975	234555.8	10.0	9.694	5095.05	2.17	-3.06%
SEQ-CAL7@ 23J0976	490060.6	20.0	20.25	10690.16	2.18	1.27%
SEQ-CAL8@ 23J0977	1208919.2	50.0	49.97	2345.22	0.19	-0.07%

Correlation Coef.: 0.999970 Slope: 24190 Intercept: 0.0

Calibration data for As 188.979 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	2.07	38.83	N/A
SEQ-CAL2@ 23J0971	13.8	0.01	0.0090	5.02	36.41	-10.14%
SEQ-CAL3@ 23J0972	188.7	0.125	0.1229	7.35	3.90	-1.67%
SEQ-CAL4@ 23J0973	754.6	0.5	0.4916	8.10	1.07	-1.68%
SEQ-CAL5@ 23J0974	1535.6	1.0	1.000	9.22	0.60	0.05%
SEQ-CAL6@ 23J0975	7542.0	5.0	4.914	3.58	0.05	-1.72%
SEQ-CAL7@ 23J0976	15415.5	10.0	10.04	120.59	0.78	0.44%

Correlation Coef.: 0.999963 Slope: 1535 Intercept: 0.0

Calibration data for B 208.889 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	1.28	3.20	N/A
SEQ-CAL2@ 23J0971	771.8	0.1	0.0965	6.74	0.87	-3.49%
SEQ-CAL3@ 23J0972	1005.1	0.125	0.1257	7.38	0.73	0.54%
SEQ-CAL4@ 23J0973	3979.1	0.5	0.4975	29.77	0.75	-0.49%
SEQ-CAL5@ 23J0974	7888.5	1.0	0.9864	41.12	0.52	-1.36%
SEQ-CAL6@ 23J0975	39799.2	5.0	4.976	252.72	0.63	-0.47%
SEQ-CAL7@ 23J0976	80081.0	10.0	10.01	793.76	0.99	0.13%

Correlation Coef.: 0.999996 Slope: 7997 Intercept: 0.0

Calibration data for Ba 233.527 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	9.18	>999.9%	N/A
SEQ-CAL2@ 23J0971	1420.9	0.05	0.0492	11.60	0.82	-1.54%
SEQ-CAL3@ 23J0972	3667.3	0.125	0.1271	25.56	0.70	1.65%

SEQ-CAL4@ 23J0973	14383.7	0.5	0.4984	76.53	0.53	-0.32%
SEQ-CAL5@ 23J0974	29002.7	1.0	1.005	62.43	0.22	0.49%
SEQ-CAL6@ 23J0975	142299.9	5.0	4.930	1308.20	0.92	-1.39%
SEQ-CAL7@ 23J0976	289602.4	10.0	10.03	1013.11	0.35	0.34%

Correlation Coef.: 0.999976 Slope: 28860 Intercept: 0.0

Calibration data for Be 313.107 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	44.64	1.47	N/A
SEQ-CAL2@ 23J0971	7465.3	0.004	0.0038	70.91	0.95	-5.03%
SEQ-CAL3@ 23J0972	256677.7	0.125	0.1306	1753.92	0.68	4.49%
SEQ-CAL4@ 23J0973	1013420.2	0.5	0.5157	5792.00	0.57	3.14%
SEQ-CAL5@ 23J0974	2045705.2	1.0	1.041	9531.28	0.47	4.10%
SEQ-CAL6@ 23J0975	9827790.4	5.0	5.001	48203.06	0.49	0.02%
SEQ-CAL7@ 23J0976	19641074.5	10.0	9.995	34061.76	0.17	-0.05%

Correlation Coef.: 0.999992 Slope: 1965000 Intercept: 0.0

Calibration data for Ca 317.933 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	8.72	0.17	N/A
SEQ-CAL2@ 23J0971	12139.6	0.5	0.4825	145.64	1.20	-3.50%
SEQ-CAL4@ 23J0973	26055.1	1.0	1.036	208.92	0.80	3.56%
SEQ-CAL5@ 23J0974	52543.7	2.0	2.088	659.24	1.25	4.42%
SEQ-CAL6@ 23J0975	246065.7	10.0	9.780	348.18	0.14	-2.20%
SEQ-CAL7@ 23J0976	498727.4	20.0	19.82	1216.97	0.24	-0.89%
SEQ-CAL8@ 23J0977	1260786.2	50.0	50.11	4220.00	0.33	0.22%

Correlation Coef.: 0.999983 Slope: 25160 Intercept: 0.0

Calibration data for Cd 228.802 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	3.69	7.35	N/A
SEQ-CAL2@ 23J0971	107.1	0.004	0.0041	4.09	3.82	2.30%
SEQ-CAL3@ 23J0972	3400.2	0.125	0.1299	26.37	0.78	3.95%
SEQ-CAL4@ 23J0973	13355.2	0.5	0.5103	54.54	0.41	2.07%
SEQ-CAL5@ 23J0974	27037.6	1.0	1.033	274.01	1.01	3.32%
SEQ-CAL6@ 23J0975	130212.5	5.0	4.976	558.27	0.43	-0.48%
SEQ-CAL7@ 23J0976	261904.8	10.0	10.01	113.11	0.04	0.08%

Correlation Coef.: 0.999993 Slope: 26170 Intercept: 0.0

Calibration data for Co 228.616 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	3.49	21.51	N/A
SEQ-CAL2@ 23J0971	223.9	0.01	0.0097	1.91	0.85	-3.27%
SEQ-CAL3@ 23J0972	3034.8	0.125	0.1311	29.63	0.98	4.89%
SEQ-CAL4@ 23J0973	12040.9	0.5	0.5202	13.83	0.11	4.04%
SEQ-CAL5@ 23J0974	24461.4	1.0	1.057	222.01	0.91	5.68%
SEQ-CAL6@ 23J0975	115654.3	5.0	4.997	465.14	0.40	-0.07%
SEQ-CAL7@ 23J0976	231348.4	10.0	9.995	134.33	0.06	-0.05%

Correlation Coef.: 0.999985 Slope: 23150 Intercept: 0.0

Calibration data for Cr 267.716 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	5.05	11.95	N/A
SEQ-CAL2@ 23J0971	570.6	0.01	0.0107	5.89	1.03	6.66%
SEQ-CAL3@ 23J0972	7003.8	0.125	0.1309	44.72	0.64	4.73%

SEQ-CAL4@ 23J0973	27663.8	0.5	0.5171	34.78	0.13	3.42%
SEQ-CAL5@ 23J0974	55894.3	1.0	1.045	622.07	1.11	4.48%
SEQ-CAL6@ 23J0975	266606.0	5.0	4.983	1173.65	0.44	-0.33%
SEQ-CAL7@ 23J0976	535157.8	10.0	10.00	362.18	0.07	0.03%

Correlation Coef.: 0.999990 Slope: 53500 Intercept: 0.0

Calibration data for Cu 327.393 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	41.67	136.74	N/A
SEQ-CAL2@ 23J0971	769.2	0.01	0.0090	21.25	2.76	-10.33%
SEQ-CAL3@ 23J0972	10744.9	0.125	0.1253	48.46	0.45	0.21%
SEQ-CAL4@ 23J0973	43258.5	0.5	0.5043	76.33	0.18	0.86%
SEQ-CAL5@ 23J0974	87777.8	1.0	1.023	860.51	0.98	2.33%
SEQ-CAL6@ 23J0975	422740.4	5.0	4.928	1821.27	0.43	-1.43%
SEQ-CAL7@ 23J0976	860612.7	10.0	10.03	3480.41	0.40	0.33%

Correlation Coef.: 0.999973 Slope: 85780 Intercept: 0.0

Calibration data for Fe 238.204 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	9.06	10.37	N/A
SEQ-CAL2@ 23J0971	1067.8	0.05	0.0514	10.63	1.00	2.74%
SEQ-CAL3@ 23J0972	2874.8	0.125	0.1383	21.87	0.76	10.65%
SEQ-CAL4@ 23J0973	11170.8	0.5	0.5374	68.81	0.62	7.49%
SEQ-CAL5@ 23J0974	22415.7	1.0	1.078	202.18	0.90	7.85%
SEQ-CAL6@ 23J0975	103691.3	5.0	4.989	538.37	0.52	-0.23%
SEQ-CAL7@ 23J0976	206560.6	10.0	9.938	1116.87	0.54	-0.62%
SEQ-CAL8@ 23J0977	520107.1	25.0	25.02	1827.99	0.35	0.09%

Correlation Coef.: 0.999992 Slope: 20790 Intercept: 0.0

Calibration data for K 766.490 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	39.68	198.49	N/A
SEQ-CAL5@ 23J0974	28838.3	2.0	2.012	990.21	3.43	0.60%
SEQ-CAL6@ 23J0975	148187.7	10.0	10.34	3285.82	2.22	3.39%
SEQ-CAL7@ 23J0976	302690.2	20.0	21.12	8787.46	2.90	5.59%
SEQ-CAL8@ 23J0977	709261.5	50.0	49.48	5630.25	0.79	-1.03%

Correlation Coef.: 0.999729 Slope: 14330 Intercept: 0.0

Calibration data for Mg 285.213 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	10.05	15.34	N/A
SEQ-CAL2@ 23J0971	2622.2	0.05	0.0481	2.31	0.09	-3.79%
SEQ-CAL3@ 23J0972	13912.1	0.25	0.2552	120.06	0.86	2.09%
SEQ-CAL4@ 23J0973	55145.7	1.0	1.012	214.49	0.39	1.16%
SEQ-CAL5@ 23J0974	112762.8	2.0	2.069	981.60	0.87	3.43%
SEQ-CAL6@ 23J0975	545865.9	10.0	10.01	3306.44	0.61	0.14%
SEQ-CAL7@ 23J0976	1112400.6	20.0	20.41	8876.91	0.80	2.03%
SEQ-CAL8@ 23J0977	2716366.8	50.0	49.83	6250.93	0.23	-0.34%

Correlation Coef.: 0.999967 Slope: 54510 Intercept: 0.0

Calibration data for Mn 257.610 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	2.70	13.75	N/A
SEQ-CAL2@ 23J0971	1165.5	0.01	0.0102	5.16	0.44	1.91%
SEQ-CAL3@ 23J0972	15595.4	0.125	0.1364	119.02	0.76	9.09%

SEQ-CAL4@ 23J0973	60457.8	0.5	0.5286	243.98	0.40	5.73%
SEQ-CAL5@ 23J0974	120542.2	1.0	1.054	1112.04	0.92	5.40%
SEQ-CAL6@ 23J0975	574484.4	5.0	5.023	2773.86	0.48	0.46%
SEQ-CAL7@ 23J0976	1141539.3	10.0	9.981	6808.58	0.60	-0.19%

Correlation Coef.: 0.999981 Slope: 114400 Intercept: 0.0

Calibration data for Mo 202.031 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	2.21	31.51	N/A
SEQ-CAL2@ 23J0971	996.1	0.05	0.0532	11.69	1.17	6.43%
SEQ-CAL3@ 23J0972	2493.8	0.125	0.1332	19.60	0.79	6.58%
SEQ-CAL4@ 23J0973	9688.9	0.5	0.5176	31.04	0.32	3.52%
SEQ-CAL5@ 23J0974	19145.0	1.0	1.023	243.79	1.27	2.28%
SEQ-CAL6@ 23J0975	93602.5	5.0	5.000	420.07	0.45	0.01%
SEQ-CAL7@ 23J0976	187121.7	10.0	9.996	224.20	0.12	-0.04%

Correlation Coef.: 0.999996 Slope: 18720 Intercept: 0.0

Calibration data for Na 589.592 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	188.20	1.58	N/A
SEQ-CAL5@ 23J0974	66210.7	2.0	1.994	990.77	1.50	-0.32%
SEQ-CAL6@ 23J0975	332176.3	10.0	10.00	3231.97	0.97	0.01%
SEQ-CAL7@ 23J0976	683045.0	20.0	20.57	10325.00	1.51	2.83%
SEQ-CAL8@ 23J0977	1653129.7	50.0	49.77	5053.14	0.31	-0.45%

Correlation Coef.: 0.999938 Slope: 33210 Intercept: 0.0

Calibration data for Ni 231.604 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	5.92	3.37	N/A
SEQ-CAL2@ 23J0971	383.2	0.01	0.0102	9.68	2.53	1.69%
SEQ-CAL3@ 23J0972	4950.8	0.125	0.1314	71.02	1.43	5.11%
SEQ-CAL4@ 23J0973	19898.2	0.5	0.5281	37.69	0.19	5.62%
SEQ-CAL5@ 23J0974	40219.1	1.0	1.067	527.33	1.31	6.74%
SEQ-CAL6@ 23J0975	188801.2	5.0	5.011	543.30	0.29	0.21%
SEQ-CAL7@ 23J0976	376288.9	10.0	9.986	328.44	0.09	-0.14%

Correlation Coef.: 0.999978 Slope: 37680 Intercept: 0.0

Calibration data for Pb 220.353 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	3.42	10.50	N/A
SEQ-CAL2@ 23J0971	58.9	0.01	0.0111	6.46	10.97	11.22%
SEQ-CAL3@ 23J0972	753.0	0.125	0.1422	7.00	0.93	13.76%
SEQ-CAL4@ 23J0973	2883.0	0.5	0.5444	18.81	0.65	8.89%
SEQ-CAL5@ 23J0974	5736.5	1.0	1.083	22.06	0.38	8.33%
SEQ-CAL6@ 23J0975	26777.5	5.0	5.057	79.51	0.30	1.14%
SEQ-CAL7@ 23J0976	52746.4	10.0	9.961	486.73	0.92	-0.39%

Correlation Coef.: 0.999945 Slope: 5295 Intercept: 0.0

Calibration data for Sb 206.836 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	4.07	14.21	N/A
SEQ-CAL2@ 23J0971	143.6	0.05	0.0468	5.03	3.50	-6.34%
SEQ-CAL3@ 23J0972	393.0	0.125	0.1282	5.18	1.32	2.53%
SEQ-CAL4@ 23J0973	1538.7	0.5	0.5018	12.95	0.84	0.37%
SEQ-CAL5@ 23J0974	3032.3	1.0	0.9890	20.42	0.67	-1.10%

SEQ-CAL6@ 23J0975	15213.0	5.0	4.962	65.68	0.43	-0.77%
SEQ-CAL7@ 23J0976	30723.4	10.0	10.02	313.68	1.02	0.20%

Correlation Coef.: 0.999992 Slope: 3066 Intercept: 0.0

Calibration data for Se 196.026 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	1.05	12.42	N/A
SEQ-CAL2@ 23J0971	91.4	0.05	0.0522	2.55	2.79	4.31%
SEQ-CAL3@ 23J0972	226.7	0.125	0.1294	5.61	2.47	3.52%
SEQ-CAL4@ 23J0973	881.9	0.5	0.5034	2.35	0.27	0.68%
SEQ-CAL5@ 23J0974	1772.8	1.0	1.012	14.55	0.82	1.19%
SEQ-CAL6@ 23J0975	8684.1	5.0	4.957	17.92	0.21	-0.86%
SEQ-CAL7@ 23J0976	17554.9	10.0	10.02	221.09	1.26	0.20%

Correlation Coef.: 0.999990 Slope: 1752 Intercept: 0.0

Calibration data for Sn 189.927 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	2.63	453.63	N/A
SEQ-CAL2@ 23J0971	592.5	0.1	0.1039	4.19	0.71	3.85%
SEQ-CAL3@ 23J0972	780.6	0.125	0.1368	7.84	1.00	9.45%
SEQ-CAL4@ 23J0973	3017.3	0.5	0.5289	21.01	0.70	5.77%
SEQ-CAL5@ 23J0974	5925.7	1.0	1.039	38.90	0.66	3.86%
SEQ-CAL6@ 23J0975	28744.7	5.0	5.038	76.92	0.27	0.76%
SEQ-CAL7@ 23J0976	56912.8	10.0	9.975	385.16	0.68	-0.25%

Correlation Coef.: 0.999982 Slope: 5705 Intercept: 0.0

Calibration data for Ti 337.279 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	2.97	1.33	N/A
SEQ-CAL2@ 23J0971	2093.0	0.02	0.0210	9.10	0.43	5.01%
SEQ-CAL3@ 23J0972	13184.9	0.125	0.1323	109.68	0.83	5.84%
SEQ-CAL4@ 23J0973	51157.5	0.5	0.5133	351.96	0.69	2.67%
SEQ-CAL5@ 23J0974	100960.4	1.0	1.013	942.29	0.93	1.31%
SEQ-CAL6@ 23J0975	495149.5	5.0	4.969	1074.18	0.22	-0.63%
SEQ-CAL7@ 23J0976	997940.6	10.0	10.01	1303.61	0.13	0.14%

Correlation Coef.: 0.999994 Slope: 99660 Intercept: 0.0

Calibration data for Tl 351.924 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	9.10	144.82	N/A
SEQ-CAL2@ 23J0971	120.2	0.05	0.0490	6.36	5.29	-1.93%
SEQ-CAL3@ 23J0972	148.6	0.0625	0.0607	4.35	2.93	-2.96%
SEQ-CAL4@ 23J0973	595.2	0.25	0.2429	1.96	0.33	-2.86%
SEQ-CAL5@ 23J0974	1233.8	0.5	0.5035	3.52	0.29	0.69%
SEQ-CAL6@ 23J0975	6049.4	2.5	2.468	78.95	1.31	-1.26%
SEQ-CAL7@ 23J0976	12292.3	5.0	5.016	158.75	1.29	0.32%

Correlation Coef.: 0.999979 Slope: 2451 Intercept: 0.0

Calibration data for V 290.880 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	12.75	0.89	N/A
SEQ-CAL2@ 23J0971	938.5	0.01	0.0105	43.36	4.62	4.96%
SEQ-CAL3@ 23J0972	11409.0	0.125	0.1276	66.82	0.59	2.08%
SEQ-CAL4@ 23J0973	45148.2	0.5	0.5049	44.45	0.10	0.98%
SEQ-CAL5@ 23J0974	91686.4	1.0	1.025	942.62	1.03	2.54%

SEQ-CAL6@ 23J0975	442799.5	5.0	4.952	1912.01	0.43	-0.96%
SEQ-CAL7@ 23J0976	896051.8	10.0	10.02	1050.46	0.12	0.21%

Correlation Coef.: 0.999986 Slope: 89420 Intercept: 0.0

Calibration data for Zn 206.200 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	3.33	78.56	N/A
SEQ-CAL2@ 23J0971	435.5	0.01	0.0110	3.71	0.85	10.07%
SEQ-CAL3@ 23J0972	5098.5	0.125	0.1288	20.34	0.40	3.08%
SEQ-CAL4@ 23J0973	20441.5	0.5	0.5166	83.71	0.41	3.32%
SEQ-CAL5@ 23J0974	41546.5	1.0	1.050	527.78	1.27	4.99%
SEQ-CAL6@ 23J0975	197908.7	5.0	5.001	734.09	0.37	0.03%
SEQ-CAL7@ 23J0976	395438.0	10.0	9.993	744.77	0.19	-0.07%

Correlation Coef.: 0.999989 Slope: 39570 Intercept: 0.0

Calibration data for Zr 343.823 **Equation: Linear Through Zero**

ID	Mean Signal (Em)	Entered Conc. mg/L	Calculated Conc. mg/L	Standard Deviation	%RSD	Residual Error
SEQ-CAL1@BLANK 23IJ0970	0.0	0	0.0000	29.89	36.69	N/A
SEQ-CAL3@ 23J0972	25895.1	0.125	0.1261	110.57	0.43	0.90%
SEQ-CAL4@ 23J0973	103226.5	0.5	0.5028	60.23	0.06	0.55%
SEQ-CAL5@ 23J0974	206790.5	1.0	1.007	1931.07	0.93	0.72%
SEQ-CAL6@ 23J0975	1022274.0	5.0	4.979	4726.44	0.46	-0.42%
SEQ-CAL7@ 23J0976	2055207.8	10.0	10.01	2735.84	0.13	0.10%

Correlation Coef.: 0.999998 Slope: 205300 Intercept: 0.0

Method Loaded
Method Name: ICP4_012224* **Method Last Saved: 5/15/2024 10:51:11 AM**
IEC File: 111223 IEC.iec **MSF File:**
Method Description: Soils and Waters

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Al 396.153	Lin Thru 0	Peak Area	Radial	Y radial	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Y axial	Yes
B 208.889	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ba 233.527	Lin Thru 0	Peak Area	Radial	Y axial	No
Be 313.107	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	Y radial	No
Cd 228.802	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cu 327.393	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Fe 238.204	Lin Thru 0	Peak Area	Radial	Y radial	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	Y radial	No
Mg 285.213	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mn 257.610	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	Y axial	No
Na 589.592	Lin Thru 0	Peak Area	Radial	Y radial	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ti 337.279	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Tl 351.924	Lin Thru 0	Peak Area	Axial	Y axial	Yes
V 290.880	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Y radial	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Y axial	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 206.200	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Zr 343.823	Lin Thru 0	Peak Area	Axial	Y axial	Yes

Batch ID: AVIO 500
Sequence No.: 1 **Autosampler Location: 8**
Sample ID: SEQ-ICV@ 23K0257 **Date Collected: 5/27/2024 2:01:23 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample):

Replicate Data: SEQ-ICV@ 23K0257

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Y radial	624041.6	624041.6	98.5	%	98.5	%	2:02:34 PM
1	Al 396.153†	43740.5	44296.0	1.684	mg/L	1.684	mg/L	2:02:36 PM
1	Ba 233.527†	55214.1	57629.3	1.997	mg/L	1.997	mg/L	2:02:36 PM
1	Be 313.107†	3920181.9	3976716.3	2.017	mg/L	2.017	mg/L	2:02:34 PM
1	Ca 317.933†	53743.8	49514.9	1.968	mg/L	1.968	mg/L	2:02:36 PM
1	Fe 238.204†	43130.4	43698.5	2.128	mg/L	2.128	mg/L	2:02:36 PM
1	K 766.490†	27900.9	28344.9	1.978	mg/L	1.978	mg/L	2:02:36 PM
1	Mg 285.213†	106492.7	108176.8	1.979	mg/L	1.979	mg/L	2:02:36 PM
1	Mn 257.610†	229260.9	232765.0	2.035	mg/L	2.035	mg/L	2:02:36 PM
1	Na 589.592†	71195.3	60337.7	1.817	mg/L	1.817	mg/L	2:02:36 PM
1	Ti 337.279†	199667.6	202925.1	2.035	mg/L	2.035	mg/L	2:02:36 PM
1	Y axial	2593153.8	2593153.8	95.8	%	95.8	%	2:02:57 PM
1	As 188.979†	2908.8	3041.4	1.965	mg/L	1.965	mg/L	2:03:17 PM
1	B 208.889†	15607.9	16250.7	1.916	mg/L	1.916	mg/L	2:03:17 PM
1	Cd 228.802†	50668.1	52834.6	1.971	mg/L	1.971	mg/L	2:02:57 PM
1	Co 228.616†	46068.6	48100.3	2.075	mg/L	2.075	mg/L	2:03:17 PM
1	Cr 267.716†	105254.4	109816.9	2.054	mg/L	2.054	mg/L	2:02:57 PM
1	Cu 327.393†	163783.9	170979.8	2.005	mg/L	2.005	mg/L	2:02:57 PM
1	Mo 202.031†	36482.3	38085.4	2.035	mg/L	2.035	mg/L	2:02:57 PM

1	Ni 231.604†	74028.1	77442.5	2.053 mg/L	2.053 mg/L	2:02:57 PM
1	Pb 220.353†	10389.8	10811.8	2.045 mg/L	2.045 mg/L	2:03:17 PM
1	Sb 206.836†	5930.4	6161.2	2.014 mg/L	2.014 mg/L	2:03:17 PM
1	Se 196.026†	3275.8	3410.6	1.947 mg/L	1.947 mg/L	2:03:17 PM
1	Sn 189.927†	11422.8	11921.9	2.093 mg/L	2.093 mg/L	2:03:17 PM
1	Tl 351.924†	2375.8	2486.1	1.042 mg/L	1.042 mg/L	2:03:17 PM
1	V 290.880†	172412.9	178515.5	1.997 mg/L	1.997 mg/L	2:02:57 PM
1	Zn 206.200†	76700.3	80051.7	2.033 mg/L	2.033 mg/L	2:02:57 PM
1	Zr 343.823†	402621.5	420317.4	2.047 mg/L	2.047 mg/L	2:02:57 PM
1	Ag 328.068†	42456.6	44544.9	0.9928 mg/L	0.9928 mg/L	2:04:41 PM
2	Y radial	630082.6	630082.6	99.5 %	99.5 %	2:02:39 PM
2	Al 396.153†	43519.7	43648.3	1.657 mg/L	1.657 mg/L	2:02:41 PM
2	Ba 233.527†	55416.4	57260.0	1.984 mg/L	1.984 mg/L	2:02:41 PM
2	Be 313.107†	3937713.6	3956187.1	2.007 mg/L	2.007 mg/L	2:02:39 PM
2	Ca 317.933†	53909.9	49158.7	1.954 mg/L	1.954 mg/L	2:02:41 PM
2	Fe 238.204†	43330.4	43479.8	2.117 mg/L	2.117 mg/L	2:02:41 PM
2	K 766.490†	27367.3	27536.8	1.921 mg/L	1.921 mg/L	2:02:41 PM
2	Mg 285.213†	106434.2	107081.4	1.959 mg/L	1.959 mg/L	2:02:41 PM
2	Mn 257.610†	229761.9	231037.2	2.020 mg/L	2.020 mg/L	2:02:41 PM
2	Na 589.592†	70893.6	59341.3	1.787 mg/L	1.787 mg/L	2:02:41 PM
2	Ti 337.279†	200693.4	202013.1	2.026 mg/L	2.026 mg/L	2:02:41 PM
2	Y axial	2619442.1	2619442.1	96.8 %	96.8 %	2:03:20 PM
2	As 188.979†	2913.4	3015.7	1.948 mg/L	1.948 mg/L	2:03:41 PM
2	B 208.889†	15603.1	16082.3	1.895 mg/L	1.895 mg/L	2:03:41 PM
2	Cd 228.802†	51101.5	52751.6	1.969 mg/L	1.969 mg/L	2:03:20 PM
2	Co 228.616†	45953.5	47498.8	2.049 mg/L	2.049 mg/L	2:03:41 PM
2	Cr 267.716†	106561.6	110065.1	2.058 mg/L	2.058 mg/L	2:03:20 PM
2	Cu 327.393†	165589.5	171129.9	2.007 mg/L	2.007 mg/L	2:03:20 PM
2	Mo 202.031†	36807.6	38039.4	2.032 mg/L	2.032 mg/L	2:03:20 PM
2	Ni 231.604†	74957.5	77627.4	2.058 mg/L	2.058 mg/L	2:03:20 PM
2	Pb 220.353†	10384.3	10697.3	2.024 mg/L	2.024 mg/L	2:03:41 PM
2	Sb 206.836†	5906.1	6074.1	1.986 mg/L	1.986 mg/L	2:03:41 PM
2	Se 196.026†	3265.2	3365.4	1.921 mg/L	1.921 mg/L	2:03:41 PM
2	Sn 189.927†	11369.3	11747.1	2.062 mg/L	2.062 mg/L	2:03:41 PM
2	Tl 351.924†	2380.5	2466.0	1.034 mg/L	1.034 mg/L	2:03:41 PM
2	V 290.880†	174902.1	179281.5	2.005 mg/L	2.005 mg/L	2:03:20 PM
2	Zn 206.200†	77825.0	80410.3	2.042 mg/L	2.042 mg/L	2:03:20 PM
2	Zr 343.823†	407585.7	421229.4	2.051 mg/L	2.051 mg/L	2:03:20 PM
2	Ag 328.068†	41884.5	43509.1	0.9697 mg/L	0.9697 mg/L	2:04:44 PM
3	Y radial	630950.1	630950.1	99.6 %	99.6 %	2:02:44 PM
3	Al 396.153†	42695.3	42760.4	1.619 mg/L	1.619 mg/L	2:02:46 PM
3	Ba 233.527†	55258.1	57515.3	1.993 mg/L	1.993 mg/L	2:02:46 PM
3	Be 313.107†	3961749.2	3974877.5	2.016 mg/L	2.016 mg/L	2:02:44 PM
3	Ca 317.933†	53496.3	48669.0	1.934 mg/L	1.934 mg/L	2:02:46 PM
3	Fe 238.204†	42942.8	43030.7	2.095 mg/L	2.095 mg/L	2:02:46 PM
3	K 766.490†	26948.7	27078.7	1.889 mg/L	1.889 mg/L	2:02:46 PM
3	Mg 285.213†	105847.1	106344.7	1.945 mg/L	1.945 mg/L	2:02:46 PM
3	Mn 257.610†	227972.4	228922.7	2.002 mg/L	2.002 mg/L	2:02:46 PM
3	Na 589.592†	70019.9	58366.1	1.757 mg/L	1.757 mg/L	2:02:46 PM
3	Ti 337.279†	199940.9	200980.1	2.016 mg/L	2.016 mg/L	2:02:46 PM
3	Y axial	2600363.0	2600363.0	96.1 %	96.1 %	2:03:44 PM
3	As 188.979†	2916.0	3040.4	1.964 mg/L	1.964 mg/L	2:04:04 PM
3	B 208.889†	15588.5	16185.4	1.907 mg/L	1.907 mg/L	2:04:04 PM
3	Cd 228.802†	51218.2	53260.6	1.988 mg/L	1.988 mg/L	2:03:44 PM
3	Co 228.616†	45950.6	47844.2	2.064 mg/L	2.064 mg/L	2:04:04 PM
3	Cr 267.716†	106582.4	110894.6	2.074 mg/L	2.074 mg/L	2:03:44 PM
3	Cu 327.393†	165890.4	172698.4	2.025 mg/L	2.025 mg/L	2:03:44 PM
3	Mo 202.031†	36767.2	38276.3	2.045 mg/L	2.045 mg/L	2:03:44 PM
3	Ni 231.604†	74917.0	78153.5	2.072 mg/L	2.072 mg/L	2:03:44 PM
3	Pb 220.353†	10400.1	10792.4	2.042 mg/L	2.042 mg/L	2:04:04 PM
3	Sb 206.836†	5904.0	6116.6	1.999 mg/L	1.999 mg/L	2:04:04 PM
3	Se 196.026†	3275.8	3401.2	1.941 mg/L	1.941 mg/L	2:04:04 PM
3	Sn 189.927†	11386.8	11851.4	2.080 mg/L	2.080 mg/L	2:04:04 PM
3	Tl 351.924†	2348.4	2450.7	1.028 mg/L	1.028 mg/L	2:04:04 PM
3	V 290.880†	174788.7	180489.4	2.019 mg/L	2.019 mg/L	2:03:44 PM
3	Zn 206.200†	77683.5	80853.1	2.054 mg/L	2.054 mg/L	2:03:44 PM
3	Zr 343.823†	408709.9	425489.5	2.072 mg/L	2.072 mg/L	2:03:44 PM
3	Ag 328.068†	41529.6	43457.2	0.9685 mg/L	0.9685 mg/L	2:04:46 PM
4	Y radial	629210.1	629210.1	99.3 %	99.3 %	2:02:49 PM
4	Al 396.153†	44256.7	44451.0	1.691 mg/L	1.691 mg/L	2:02:51 PM

4	Ba 233.527†	55189.3	57063.1	1.977 mg/L	1.977 mg/L	2:02:51 PM
4	Be 313.107†	3919165.4	3943002.0	2.000 mg/L	2.000 mg/L	2:02:49 PM
4	Ca 317.933†	53720.0	49042.7	1.949 mg/L	1.949 mg/L	2:02:51 PM
4	Fe 238.204†	43046.4	43254.3	2.106 mg/L	2.106 mg/L	2:02:51 PM
4	K 766.490†	28726.0	28943.0	2.019 mg/L	2.019 mg/L	2:02:51 PM
4	Mg 285.213†	106275.2	107069.7	1.959 mg/L	1.959 mg/L	2:02:51 PM
4	Mn 257.610†	229516.5	231110.5	2.021 mg/L	2.021 mg/L	2:02:51 PM
4	Na 589.592†	71905.6	60459.1	1.820 mg/L	1.820 mg/L	2:02:51 PM
4	Ti 337.279†	199011.5	200599.4	2.012 mg/L	2.012 mg/L	2:02:51 PM
4	Y axial	2617710.5	2617710.5	96.7 %	96.7 %	2:04:07 PM
4	As 188.979†	2909.6	3013.7	1.947 mg/L	1.947 mg/L	2:04:27 PM
4	B 208.889†	15581.1	16070.3	1.894 mg/L	1.894 mg/L	2:04:27 PM
4	Cd 228.802†	51051.3	52734.7	1.968 mg/L	1.968 mg/L	2:04:07 PM
4	Co 228.616†	45883.2	47457.5	2.048 mg/L	2.048 mg/L	2:04:27 PM
4	Cr 267.716†	106341.3	109910.2	2.055 mg/L	2.055 mg/L	2:04:07 PM
4	Cu 327.393†	166352.8	172032.3	2.018 mg/L	2.018 mg/L	2:04:07 PM
4	Mo 202.031†	36542.4	37790.4	2.019 mg/L	2.019 mg/L	2:04:07 PM
4	Ni 231.604†	74737.4	77451.1	2.053 mg/L	2.053 mg/L	2:04:07 PM
4	Pb 220.353†	10354.6	10673.6	2.019 mg/L	2.019 mg/L	2:04:27 PM
4	Sb 206.836†	5881.2	6052.3	1.978 mg/L	1.978 mg/L	2:04:27 PM
4	Se 196.026†	3270.9	3373.5	1.925 mg/L	1.925 mg/L	2:04:27 PM
4	Sn 189.927†	11358.9	11744.1	2.062 mg/L	2.062 mg/L	2:04:27 PM
4	Tl 351.924†	2362.3	2448.8	1.027 mg/L	1.027 mg/L	2:04:27 PM
4	V 290.880†	174602.0	179090.7	2.003 mg/L	2.003 mg/L	2:04:07 PM
4	Zn 206.200†	77038.9	79650.8	2.023 mg/L	2.023 mg/L	2:04:07 PM
4	Zr 343.823†	407891.2	421823.9	2.054 mg/L	2.054 mg/L	2:04:07 PM
4	Ag 328.068†	41850.8	43502.8	0.9695 mg/L	0.9695 mg/L	2:04:49 PM

Mean Data: SEQ-ICV@ 23K0257

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	628571.1	99.2	%	0.49	99.2	%	0.49	0.49%
Y axial	2607667.3	96.3	%	0.48	96.3	%	0.48	0.50%
Ag 328.068†	43753.5	0.9751	mg/L	0.01181	0.9751	mg/L	0.01181	1.21%
QC value within limits for Ag 328.068 Recovery = 97.51%								
Al 396.153†	43788.9	1.663	mg/L	0.0324	1.663	mg/L	0.0324	1.95%
QC value less than the lower limit for Al 396.153 Recovery = 83.14%								
As 188.979†	3027.8	1.956	mg/L	0.0098	1.956	mg/L	0.0098	0.50%
QC value within limits for As 188.979 Recovery = 97.82%								
B 208.889†	16147.2	1.903	mg/L	0.0104	1.903	mg/L	0.0104	0.55%
QC value within limits for B 208.889 Recovery = 95.16%								
Ba 233.527†	57366.9	1.988	mg/L	0.0088	1.988	mg/L	0.0088	0.44%
QC value within limits for Ba 233.527 Recovery = 99.38%								
Be 313.107†	3962695.7	2.010	mg/L	0.0082	2.010	mg/L	0.0082	0.41%
QC value within limits for Be 313.107 Recovery = 100.50%								
Ca 317.933†	49096.3	1.951	mg/L	0.0139	1.951	mg/L	0.0139	0.71%
QC value within limits for Ca 317.933 Recovery = 97.57%								
Cd 228.802†	52895.4	1.974	mg/L	0.0093	1.974	mg/L	0.0093	0.47%
QC value within limits for Cd 228.802 Recovery = 98.70%								
Co 228.616†	47725.2	2.059	mg/L	0.0131	2.059	mg/L	0.0131	0.64%
QC value within limits for Co 228.616 Recovery = 102.95%								
Cr 267.716†	110171.7	2.060	mg/L	0.0092	2.060	mg/L	0.0092	0.45%
QC value within limits for Cr 267.716 Recovery = 103.01%								
Cu 327.393†	171710.1	2.014	mg/L	0.0094	2.014	mg/L	0.0094	0.47%
QC value within limits for Cu 327.393 Recovery = 100.69%								
Fe 238.204†	43365.8	2.111	mg/L	0.0139	2.111	mg/L	0.0139	0.66%
QC value greater than the upper limit for Fe 238.204 Recovery = 105.57%								
K 766.490†	27975.9	1.952	mg/L	0.0579	1.952	mg/L	0.0579	2.97%
QC value within limits for K 766.490 Recovery = 97.59%								
Mg 285.213†	107168.1	1.961	mg/L	0.0139	1.961	mg/L	0.0139	0.71%
QC value within limits for Mg 285.213 Recovery = 98.03%								
Mn 257.610†	230958.8	2.020	mg/L	0.0138	2.020	mg/L	0.0138	0.68%
QC value within limits for Mn 257.610 Recovery = 100.98%								
Mo 202.031†	38047.9	2.033	mg/L	0.0107	2.033	mg/L	0.0107	0.53%
QC value within limits for Mo 202.031 Recovery = 101.63%								
Na 589.592†	59626.1	1.795	mg/L	0.0294	1.795	mg/L	0.0294	1.64%
QC value less than the lower limit for Na 589.592 Recovery = 89.76%								
Ni 231.604†	77668.6	2.059	mg/L	0.0089	2.059	mg/L	0.0089	0.43%
QC value within limits for Ni 231.604 Recovery = 102.95%								

No Al, Na
No 200.7 Fe
MJH 5-28-24

Pb 220.353†	10743.8	2.033 mg/L	0.0130	2.033 mg/L	0.0130	0.64%
QC value within limits for Pb 220.353 Recovery = 101.63%						
Sb 206.836†	6101.0	1.994 mg/L	0.0158	1.994 mg/L	0.0158	0.79%
QC value within limits for Sb 206.836 Recovery = 99.72%						
Se 196.026†	3387.7	1.934 mg/L	0.0124	1.934 mg/L	0.0124	0.64%
QC value within limits for Se 196.026 Recovery = 96.68%						
Sn 189.927†	11816.1	2.074 mg/L	0.0152	2.074 mg/L	0.0152	0.73%
QC value within limits for Sn 189.927 Recovery = 103.71%						
Ti 337.279†	201629.4	2.022 mg/L	0.0105	2.022 mg/L	0.0105	0.52%
QC value within limits for Ti 337.279 Recovery = 101.12%						
Tl 351.924†	2462.9	1.033 mg/L	0.0069	1.033 mg/L	0.0069	0.67%
QC value within limits for Tl 351.924 Recovery = 103.29%						
V 290.880†	179344.3	2.006 mg/L	0.0093	2.006 mg/L	0.0093	0.46%
QC value within limits for V 290.880 Recovery = 100.30%						
Zn 206.200†	80241.5	2.038 mg/L	0.0130	2.038 mg/L	0.0130	0.64%
QC value within limits for Zn 206.200 Recovery = 101.90%						
Zr 343.823†	422215.0	2.056 mg/L	0.0111	2.056 mg/L	0.0111	0.54%
QC value within limits for Zr 343.823 Recovery = 102.81%						

QC Failed. Continue with analysis.
User canceled analysis.

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Method Loaded
Method Name: ICP4_012224* **Method Last Saved: 5/27/2024 2:05:09 PM**
IEC File: 111223 IEC.iec **MSF File:**
Method Description: Soils and Waters

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Al 396.153	Lin Thru 0	Peak Area	Radial	Y radial	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Y axial	Yes
B 208.889	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ba 233.527	Lin Thru 0	Peak Area	Radial	Y axial	No
Be 313.107	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	Y radial	No
Cd 228.802	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cu 327.393	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Fe 238.204	Lin Thru 0	Peak Area	Radial	Y radial	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	Y radial	No
Mg 285.213	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mn 257.610	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	Y axial	No
Na 589.592	Lin Thru 0	Peak Area	Radial	Y radial	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ti 337.279	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Tl 351.924	Lin Thru 0	Peak Area	Axial	Y axial	Yes
V 290.880	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Y radial	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Y axial	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 206.200	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Zr 343.823	Lin Thru 0	Peak Area	Axial	Y axial	Yes

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Batch ID: AVIO 500
Sequence No.: 2 **Autosampler Location: 1**
Sample ID: SEQ-ICB@ 23J0970 **Date Collected: 5/27/2024 2:09:23 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample):

Mean Data: SEQ-ICB@ 23J0970

	Mean Corrected	Calib.	Sample

Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Y radial	631615.1	99.7	%	0.76	99.7	%	0.76	0.76%
Y axial	2659046.1	98.2	%	0.86	98.2	%	0.86	0.87%
Ag 328.068†	-124.8	-0.0028	mg/L	0.00052	-0.0028	mg/L	0.00052	18.51%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	14.1	0.0006	mg/L	0.00227	0.0006	mg/L	0.00227	411.89%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	-0.5	-0.0004	mg/L	0.00213	-0.0004	mg/L	0.00213	587.62%
QC value within limits for As 188.979 Recovery = Not calculated								
B 208.889†	9.3	0.0011	mg/L	0.00017	0.0011	mg/L	0.00017	14.95%
QC value within limits for B 208.889 Recovery = Not calculated								
Ba 233.527†	0.3	0.0000	mg/L	0.00020	0.0000	mg/L	0.00020	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-694.2	-0.0004	mg/L	0.00001	-0.0004	mg/L	0.00001	1.65%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	-123.4	-0.0049	mg/L	0.00160	-0.0049	mg/L	0.00160	32.71%
QC value within limits for Ca 317.933 Recovery = Not calculated								
Cd 228.802†	-6.4	-0.0002	mg/L	0.00035	-0.0002	mg/L	0.00035	147.97%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	-19.5	-0.0008	mg/L	0.00010	-0.0008	mg/L	0.00010	12.11%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	15.2	0.0003	mg/L	0.00006	0.0003	mg/L	0.00006	22.57%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	-19.3	-0.0002	mg/L	0.00032	-0.0002	mg/L	0.00032	142.07%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 238.204†	3.0	0.0001	mg/L	0.00047	0.0001	mg/L	0.00047	354.00%
QC value within limits for Fe 238.204 Recovery = Not calculated								
K 766.490†	-32.1	-0.0022	mg/L	0.00298	-0.0022	mg/L	0.00298	133.20%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213†	10.5	0.0002	mg/L	0.00023	0.0002	mg/L	0.00023	122.00%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610†	-10.7	-0.0001	mg/L	0.00010	-0.0001	mg/L	0.00010	108.34%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	8.5	0.0005	mg/L	0.00039	0.0005	mg/L	0.00039	86.22%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592†	-3914.5	-0.1179	mg/L	0.00684	-0.1179	mg/L	0.00684	5.81%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604†	-17.9	-0.0005	mg/L	0.00018	-0.0005	mg/L	0.00018	38.87%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	8.1	0.0015	mg/L	0.00015	0.0015	mg/L	0.00015	9.92%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	9.0	0.0029	mg/L	0.00044	0.0029	mg/L	0.00044	15.07%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	6.0	0.0034	mg/L	0.00236	0.0034	mg/L	0.00236	69.39%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	9.2	0.0016	mg/L	0.00021	0.0016	mg/L	0.00021	13.26%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 337.279†	21.0	0.0002	mg/L	0.00026	0.0002	mg/L	0.00026	125.14%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 351.924†	-11.9	-0.0048	mg/L	0.00232	-0.0048	mg/L	0.00232	48.03%
QC value within limits for Tl 351.924 Recovery = Not calculated								
V 290.880†	-7.6	-0.0001	mg/L	0.00016	-0.0001	mg/L	0.00016	189.15%
QC value within limits for V 290.880 Recovery = Not calculated								
Zn 206.200†	43.7	0.0011	mg/L	0.00011	0.0011	mg/L	0.00011	9.66%
QC value within limits for Zn 206.200 Recovery = Not calculated								
Zr 343.823†	82.4	0.0004	mg/L	0.00021	0.0004	mg/L	0.00021	51.18%

All analyte(s) passed QC.

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Batch ID: AVIO 500
Sequence No.: 3 **Autosampler Location: 14**
Sample ID: SEQ-LCV@ 23J0971 **Date Collected: 5/27/2024 2:15:33 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 100

Mean Data: SEQ-LCV@ 23J0971

	Mean Corrected	Calib.	Sample

Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Y radial	635257.7	100	%	0.38	100	%	0.38	0.38%
Y axial	2646113.5	97.8	%	1.28	97.8	%	1.28	1.31%
Ag 328.068†	333.5	0.0075	mg/L	0.00059	0.0075	mg/L	0.00059	7.81%
QC value less than the lower limit for Ag 328.068 Recovery = 75.19%								
Al 396.153†	1019.5	0.0390	mg/L	0.00126	0.0390	mg/L	0.00126	3.24%
QC value less than the lower limit for Al 396.153 Recovery = 78.00%								
As 188.979†	13.4	0.0083	mg/L	0.00161	0.0083	mg/L	0.00161	19.29%
QC value within limits for As 188.979 Recovery = 83.40%								
B 208.889†	772.9	0.0936	mg/L	0.00125	0.0936	mg/L	0.00125	1.33%
QC value within limits for B 208.889 Recovery = 93.61%								
Ba 233.527†	1434.9	0.0497	mg/L	0.00065	0.0497	mg/L	0.00065	1.31%
QC value within limits for Ba 233.527 Recovery = 99.43%								
Be 313.107†	7371.7	0.0037	mg/L	0.00001	0.0037	mg/L	0.00001	0.19%
QC value within limits for Be 313.107 Recovery = 93.03%								
Ca 317.933†	12218.1	0.4856	mg/L	0.00400	0.4856	mg/L	0.00400	0.82%
QC value within limits for Ca 317.933 Recovery = 97.12%								
Cd 228.802†	104.7	0.0038	mg/L	0.00019	0.0038	mg/L	0.00019	4.91%
QC value within limits for Cd 228.802 Recovery = 95.19%								
Co 228.616†	220.9	0.0096	mg/L	0.00006	0.0096	mg/L	0.00006	0.62%
QC value within limits for Co 228.616 Recovery = 95.65%								
Cr 267.716†	576.1	0.0108	mg/L	0.00008	0.0108	mg/L	0.00008	0.75%
QC value within limits for Cr 267.716 Recovery = 107.71%								
Cu 327.393†	772.3	0.0090	mg/L	0.00024	0.0090	mg/L	0.00024	2.70%
QC value within limits for Cu 327.393 Recovery = 90.44%								
Fe 238.204†	1077.5	0.0520	mg/L	0.00020	0.0520	mg/L	0.00020	0.38%
QC value within limits for Fe 238.204 Recovery = 103.91%								
K 766.490†	26493.5	1.848	mg/L	0.0615	1.848	mg/L	0.0615	3.33%
QC value within limits for K 766.490 Recovery = 92.42%								
Mg 285.213†	2640.5	0.0483	mg/L	0.00011	0.0483	mg/L	0.00011	0.22%
QC value within limits for Mg 285.213 Recovery = 96.69%								
Mn 257.610†	1169.7	0.0102	mg/L	0.00006	0.0102	mg/L	0.00006	0.63%
QC value within limits for Mn 257.610 Recovery = 102.29%								
Mo 202.031†	994.8	0.0531	mg/L	0.00047	0.0531	mg/L	0.00047	0.88%
QC value within limits for Mo 202.031 Recovery = 106.29%								
Na 589.592†	56281.9	1.695	mg/L	0.0216	1.695	mg/L	0.0216	1.27%
QC value within limits for Na 589.592 Recovery = 84.73%								
Ni 231.604†	386.1	0.0102	mg/L	0.00036	0.0102	mg/L	0.00036	3.48%
QC value within limits for Ni 231.604 Recovery = 102.28%								
Pb 220.353†	58.4	0.0111	mg/L	0.00084	0.0111	mg/L	0.00084	7.55%
QC value within limits for Pb 220.353 Recovery = 111.45%								
Sb 206.836†	142.8	0.0474	mg/L	0.00071	0.0474	mg/L	0.00071	1.50%
QC value within limits for Sb 206.836 Recovery = 94.75%								
Se 196.026†	90.6	0.0518	mg/L	0.00109	0.0518	mg/L	0.00109	2.11%
QC value within limits for Se 196.026 Recovery = 103.52%								
Sn 189.927†	588.6	0.1032	mg/L	0.00098	0.1032	mg/L	0.00098	0.95%
QC value within limits for Sn 189.927 Recovery = 103.20%								
Ti 337.279†	2084.3	0.0209	mg/L	0.00012	0.0209	mg/L	0.00012	0.59%
QC value within limits for Ti 337.279 Recovery = 104.57%								
Tl 351.924†	128.0	0.0522	mg/L	0.00304	0.0522	mg/L	0.00304	5.83%
QC value within limits for Tl 351.924 Recovery = 104.38%								
V 290.880†	903.4	0.0101	mg/L	0.00054	0.0101	mg/L	0.00054	5.37%
QC value within limits for V 290.880 Recovery = 101.12%								
Zn 206.200†	454.7	0.0114	mg/L	0.00016	0.0114	mg/L	0.00016	1.45%
QC value within limits for Zn 206.200 Recovery = 113.82%								
Zr 343.823†	111.9	0.0005	mg/L	0.00011	0.0005	mg/L	0.00011	20.00%

QC Failed. Continue with analysis.

No Ag, Al
MJH 5-28-24

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Batch ID: AVIO 500
Sequence No.: 4
Sample ID: SEQ-CCV@ 23J0975
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 200

Autosampler Location: 5
Date Collected: 5/27/2024 2:23:22 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-CCV@ 23J0975

	Mean Corrected	Calib.	Sample

Analyte	Intensity	Conc. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y radial	622722.9	98.3 %	0.78	98.3 %	0.78	0.79%
Y axial	2502803.7	92.5 %	0.29	92.5 %	0.29	0.31%
Ag 328.068†	108330.1	2.414 mg/L	0.0354	2.414 mg/L	0.0354	1.47%
QC value within limits for Ag 328.068 Recovery = 96.57%						
Al 396.153†	228762.2	9.084 mg/L	0.2872	9.084 mg/L	0.2872	3.16%
QC value within limits for Al 396.153 Recovery = 90.84%						
As 188.979†	7675.6	4.960 mg/L	0.0133	4.960 mg/L	0.0133	0.27%
QC value within limits for As 188.979 Recovery = 99.20%						
B 208.889†	40179.5	4.734 mg/L	0.0208	4.734 mg/L	0.0208	0.44%
QC value within limits for B 208.889 Recovery = 94.67%						
Ba 233.527†	147078.8	5.096 mg/L	0.0186	5.096 mg/L	0.0186	0.37%
QC value within limits for Ba 233.527 Recovery = 101.92%						
Be 313.107†	9828371.2	4.985 mg/L	0.0724	4.985 mg/L	0.0724	1.45%
QC value within limits for Be 313.107 Recovery = 99.70%						
Ca 317.933†	249667.4	9.923 mg/L	0.1162	9.923 mg/L	0.1162	1.17%
QC value within limits for Ca 317.933 Recovery = 99.23%						
Cd 228.802†	132946.6	4.960 mg/L	0.0172	4.960 mg/L	0.0172	0.35%
QC value within limits for Cd 228.802 Recovery = 99.20%						
Co 228.616†	118771.9	5.125 mg/L	0.0208	5.125 mg/L	0.0208	0.41%
QC value within limits for Co 228.616 Recovery = 102.49%						
Cr 267.716†	271516.6	5.077 mg/L	0.0195	5.077 mg/L	0.0195	0.38%
QC value within limits for Cr 267.716 Recovery = 101.55%						
Cu 327.393†	425197.6	4.988 mg/L	0.0296	4.988 mg/L	0.0296	0.59%
QC value within limits for Cu 327.393 Recovery = 99.75%						
Fe 238.204†	104814.5	5.105 mg/L	0.0762	5.105 mg/L	0.0762	1.49%
QC value within limits for Fe 238.204 Recovery = 102.10%						
K 766.490†	147480.6	10.29 mg/L	0.470	10.29 mg/L	0.470	4.57%
QC value within limits for K 766.490 Recovery = 102.90%						
Mg 285.213†	546456.7	10.01 mg/L	0.151	10.01 mg/L	0.151	1.50%
QC value within limits for Mg 285.213 Recovery = 100.09%						
Mn 257.610†	575634.9	5.033 mg/L	0.0662	5.033 mg/L	0.0662	1.31%
QC value within limits for Mn 257.610 Recovery = 100.67%						
Mo 202.031†	95348.2	5.094 mg/L	0.0246	5.094 mg/L	0.0246	0.48%
QC value within limits for Mo 202.031 Recovery = 101.87%						
Na 589.592†	323611.4	9.744 mg/L	0.2379	9.744 mg/L	0.2379	2.44%
QC value within limits for Na 589.592 Recovery = 97.44%						
Ni 231.604†	192750.5	5.110 mg/L	0.0206	5.110 mg/L	0.0206	0.40%
QC value within limits for Ni 231.604 Recovery = 102.20%						
Pb 220.353†	26030.7	4.926 mg/L	0.0318	4.926 mg/L	0.0318	0.65%
QC value within limits for Pb 220.353 Recovery = 98.51%						
Sb 206.836†	15401.3	5.036 mg/L	0.0273	5.036 mg/L	0.0273	0.54%
QC value within limits for Sb 206.836 Recovery = 100.72%						
Se 196.026†	8536.6	4.872 mg/L	0.0314	4.872 mg/L	0.0314	0.65%
QC value within limits for Se 196.026 Recovery = 97.45%						
Sn 189.927†	29128.3	5.113 mg/L	0.0235	5.113 mg/L	0.0235	0.46%
QC value within limits for Sn 189.927 Recovery = 102.26%						
Ti 337.279†	498717.3	5.002 mg/L	0.0522	5.002 mg/L	0.0522	1.04%
QC value within limits for Ti 337.279 Recovery = 100.04%						
Tl 351.924†	6168.7	2.588 mg/L	0.0110	2.588 mg/L	0.0110	0.43%
QC value within limits for Tl 351.924 Recovery = 103.53%						
V 290.880†	452734.7	5.065 mg/L	0.0235	5.065 mg/L	0.0235	0.46%
QC value within limits for V 290.880 Recovery = 101.29%						
Zn 206.200†	202425.3	5.140 mg/L	0.0207	5.140 mg/L	0.0207	0.40%
QC value within limits for Zn 206.200 Recovery = 102.81%						
Zr 343.823†	1072628.1	5.224 mg/L	0.0311	5.224 mg/L	0.0311	0.60%
QC value within limits for Zr 343.823 Recovery = 104.48%						

All analyte(s) passed QC.

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Batch ID: AVIO 500
Sequence No.: 5
Sample ID: SEQ-IFA@ 23I0975
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 200

Autosampler Location: 11
Date Collected: 5/27/2024 2:29:24 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-IFA@ 23I0975

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	583944.6	92.2	%	0.15	92.2	%	0.15	0.16%
Y axial	2264346.1	83.7	%	0.70	83.7	%	0.70	0.83%
Ag 328.068†	-433.7	0.0004	mg/L	0.00055	0.0004	mg/L	0.00055	129.54%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	6461838.3	267.0	mg/L	4.37	267.0	mg/L	4.37	1.64%
QC value within limits for Al 396.153 Recovery = 106.80%								
As 188.979†	-13.0	0.0030	mg/L	0.00060	0.0030	mg/L	0.00060	19.91%
QC value within limits for As 188.979 Recovery = Not calculated								
B 208.889†	17.1	0.0005	mg/L	0.00239	0.0005	mg/L	0.00239	459.66%
QC value within limits for B 208.889 Recovery = Not calculated								
Ba 233.527†	266.3	0.0092	mg/L	0.00023	0.0092	mg/L	0.00023	2.52%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	41.5	0.0001	mg/L	0.00003	0.0001	mg/L	0.00003	41.09%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	6192164.8	246.1	mg/L	1.27	246.1	mg/L	1.27	0.51%
QC value within limits for Ca 317.933 Recovery = 98.45%								
Cd 228.802†	-13.9	-0.0003	mg/L	0.00013	-0.0003	mg/L	0.00013	43.09%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	-108.9	-0.0047	mg/L	0.00035	-0.0047	mg/L	0.00035	7.41%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	301.3	0.0081	mg/L	0.00012	0.0081	mg/L	0.00012	1.45%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	-458.1	-0.0009	mg/L	0.00009	-0.0009	mg/L	0.00009	10.24%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 238.204†	1984066.9	95.46	mg/L	0.659	95.46	mg/L	0.659	0.69%
QC value within limits for Fe 238.204 Recovery = 95.46%								
K 766.490†	-60.8	-0.0042	mg/L	0.00256	-0.0042	mg/L	0.00256	60.28%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213†	11651861.5	213.8	mg/L	0.28	213.8	mg/L	0.28	0.13%
QC value within limits for Mg 285.213 Recovery = 85.50%								
Mn 257.610†	-580.0	-0.0025	mg/L	0.00004	-0.0025	mg/L	0.00004	1.44%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	532.4	0.0284	mg/L	0.00053	0.0284	mg/L	0.00053	1.85%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592†	-798.8	-0.0241	mg/L	0.01501	-0.0241	mg/L	0.01501	62.41%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604†	-320.1	-0.0036	mg/L	0.00056	-0.0036	mg/L	0.00056	15.25%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-77.9	0.0094	mg/L	0.00158	0.0094	mg/L	0.00158	16.81%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-0.5	0.0002	mg/L	0.00511	0.0002	mg/L	0.00511	>999.9%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-58.4	0.0283	mg/L	0.00138	0.0283	mg/L	0.00138	4.86%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	-28.1	-0.0049	mg/L	0.00038	-0.0049	mg/L	0.00038	7.76%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 337.279†	-3.9	-0.0000	mg/L	0.00029	-0.0000	mg/L	0.00029	704.94%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 351.924†	-34.7	0.0044	mg/L	0.00104	0.0044	mg/L	0.00104	23.71%
QC value within limits for Tl 351.924 Recovery = Not calculated								
V 290.880†	-1018.6	0.0043	mg/L	0.00120	0.0043	mg/L	0.00120	27.63%
QC value within limits for V 290.880 Recovery = Not calculated								
Zn 206.200†	125.1	0.0032	mg/L	0.00020	0.0032	mg/L	0.00020	6.29%
QC value within limits for Zn 206.200 Recovery = Not calculated								
Zr 343.823†	848.6	0.0000	mg/L	0.00005	0.0000	mg/L	0.00005	94.13%

All analyte(s) passed QC.

==========

Batch ID: AVIO 500
Sequence No.: 6 **Autosampler Location: 12**
Sample ID: SEQ-IFB@ 23I0976 **Date Collected: 5/27/2024 2:35:43 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 100

Mean Data: SEQ-IFB@ 23I0976

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	585610.6	92.4	%	0.25	92.4	%	0.25	0.27%
Y axial	2304303.9	85.1	%	0.33	85.1	%	0.33	0.39%
Ag 328.068†	18048.0	0.4186	mg/L	0.00540	0.4186	mg/L	0.00540	1.29%
QC value within limits for Ag 328.068 Recovery = 104.64%								
Al 396.153†	6556992.9	270.9	mg/L	0.58	270.9	mg/L	0.58	0.21%
QC value within limits for Al 396.153 Recovery = 108.38%								
As 188.979†	286.7	0.1962	mg/L	0.00468	0.1962	mg/L	0.00468	2.38%
QC value within limits for As 188.979 Recovery = 98.11%								
B 208.889†	8.6	-0.0005	mg/L	0.00120	-0.0005	mg/L	0.00120	253.63%
QC value within limits for B 208.889 Recovery = Not calculated								
Ba 233.527†	29499.0	1.022	mg/L	0.0121	1.022	mg/L	0.0121	1.19%
QC value within limits for Ba 233.527 Recovery = 102.21%								
Be 313.107†	2022136.0	1.026	mg/L	0.0016	1.026	mg/L	0.0016	0.15%
QC value within limits for Be 313.107 Recovery = 102.57%								
Ca 317.933†	6208142.2	246.7	mg/L	0.25	246.7	mg/L	0.25	0.10%
QC value within limits for Ca 317.933 Recovery = 98.70%								
Cd 228.802†	54193.3	2.069	mg/L	0.0092	2.069	mg/L	0.0092	0.44%
QC value within limits for Cd 228.802 Recovery = 103.45%								
Co 228.616†	21025.9	0.9084	mg/L	0.00388	0.9084	mg/L	0.00388	0.43%
QC value within limits for Co 228.616 Recovery = 90.84%								
Cr 267.716†	52535.9	0.9846	mg/L	0.00559	0.9846	mg/L	0.00559	0.57%
QC value within limits for Cr 267.716 Recovery = 98.46%								
Cu 327.393†	85023.7	0.9958	mg/L	0.00356	0.9958	mg/L	0.00356	0.36%
QC value within limits for Cu 327.393 Recovery = 99.58%								
Fe 238.204†	2001436.2	96.30	mg/L	0.368	96.30	mg/L	0.368	0.38%
QC value within limits for Fe 238.204 Recovery = 96.30%								
K 766.490†	-46.3	-0.0032	mg/L	0.00147	-0.0032	mg/L	0.00147	45.43%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213†	11718712.0	215.0	mg/L	0.34	215.0	mg/L	0.34	0.16%
QC value within limits for Mg 285.213 Recovery = 85.99%								
Mn 257.610†	111274.4	0.9756	mg/L	0.00819	0.9756	mg/L	0.00819	0.84%
QC value within limits for Mn 257.610 Recovery = 97.56%								
Mo 202.031†	510.5	0.0273	mg/L	0.00034	0.0273	mg/L	0.00034	1.24%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592†	24.4	0.0007	mg/L	0.00087	0.0007	mg/L	0.00087	117.69%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604†	67700.9	1.801	mg/L	0.0077	1.801	mg/L	0.0077	0.43%
QC value within limits for Ni 231.604 Recovery = 90.03%								
Pb 220.353†	394.4	0.0979	mg/L	0.00363	0.0979	mg/L	0.00363	3.71%
QC value within limits for Pb 220.353 Recovery = 97.88%								
Sb 206.836†	3537.3	1.138	mg/L	0.0093	1.138	mg/L	0.0093	0.82%
QC value within limits for Sb 206.836 Recovery = 94.85%								
Se 196.026†	896.7	0.5734	mg/L	0.00238	0.5734	mg/L	0.00238	0.42%
QC value within limits for Se 196.026 Recovery = 114.67%								
Sn 189.927†	-32.0	-0.0056	mg/L	0.00120	-0.0056	mg/L	0.00120	21.40%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 337.279†	-47.8	-0.0005	mg/L	0.00041	-0.0005	mg/L	0.00041	86.18%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 351.924†	511.6	0.2263	mg/L	0.00160	0.2263	mg/L	0.00160	0.71%
QC value within limits for Tl 351.924 Recovery = 113.14%								
V 290.880†	87373.4	0.9930	mg/L	0.00519	0.9930	mg/L	0.00519	0.52%
QC value within limits for V 290.880 Recovery = 99.30%								
Zn 206.200†	74052.9	1.877	mg/L	0.0132	1.877	mg/L	0.0132	0.71%
QC value within limits for Zn 206.200 Recovery = 93.83%								
Zr 343.823†	842.7	-0.0000	mg/L	0.00007	-0.0000	mg/L	0.00007	440.48%

All analyte(s) passed QC.
User canceled analysis.

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Batch ID: AVIO 500
Sequence No.: 8
Sample ID: SEQ-HCV1@100
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample):

Autosampler Location: 15
Date Collected: 5/27/2024 2:41:53 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-HCV1@100

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y radial	580180.1	91.6	%	0.39	91.6	%	0.39	0.43%
Y axial	2331303.1	86.1	%	1.19	86.1	%	1.19	1.38%
Ag 328.068†	-983.9	0.4836	mg/L	0.00298	0.4836	mg/L	0.00298	0.62%
Al 396.153†	2685828.9	111.1	mg/L	4.29	111.1	mg/L	4.29	3.86%
Saturated within auto integration window (code 4)								
QC value greater than the upper limit for Al 396.153 Recovery = 111.09%								
As 188.979†	143568.6	93.37	mg/L	1.681	93.37	mg/L	1.681	1.80%
QC value within limits for As 188.979 Recovery = 93.37%								
B 208.889†	-99.5	-0.0116	mg/L	0.00017	-0.0116	mg/L	0.00017	1.49%
Ba 233.527†	2950741.6	102.2	mg/L	1.26	102.2	mg/L	1.26	1.23%
QC value within limits for Ba 233.527 Recovery = 102.24%								
Be 313.107†	Saturated3							
Ca 317.933†	3462.1	0.1376	mg/L	0.00971	0.1376	mg/L	0.00971	7.06%
Cd 228.802†	1911560.0	70.80	mg/L	0.987	70.80	mg/L	0.987	1.39%
QC value less than the lower limit for Cd 228.802 Recovery = 70.80%								
Co 228.616†	2207490.0	95.43	mg/L	0.977	95.43	mg/L	0.977	1.02%
QC value within limits for Co 228.616 Recovery = 95.43%								
Cr 267.716†	5028430.9	94.01	mg/L	0.925	94.01	mg/L	0.925	0.98%
QC value within limits for Cr 267.716 Recovery = 94.01%								
Cu 327.393†	8818203.8	102.8	mg/L	0.94	102.8	mg/L	0.94	0.92%
QC value within limits for Cu 327.393 Recovery = 102.81%								
Fe 238.204†	2098558.7	102.1	mg/L	0.92	102.1	mg/L	0.92	0.90%
QC value within limits for Fe 238.204 Recovery = 102.12%								
K 766.490†	-39.6	-0.0028	mg/L	0.00645	-0.0028	mg/L	0.00645	233.28%
Mg 285.213†	-7740.5	0.0407	mg/L	0.00257	0.0407	mg/L	0.00257	6.33%
Mn 257.610†	11110600.1	97.15	mg/L	1.208	97.15	mg/L	1.208	1.24%
QC value within limits for Mn 257.610 Recovery = 97.15%								
Mo 202.031†	-261.9	-0.0140	mg/L	0.00064	-0.0140	mg/L	0.00064	4.61%
Na 589.592†	-3603.3	-0.1085	mg/L	0.00332	-0.1085	mg/L	0.00332	3.06%
Ni 231.604†	3561723.9	94.35	mg/L	1.028	94.35	mg/L	1.028	1.09%
QC value within limits for Ni 231.604 Recovery = 94.35%								
Pb 220.353†	493172.5	93.00	mg/L	1.617	93.00	mg/L	1.617	1.74%
QC value within limits for Pb 220.353 Recovery = 93.00%								
Sb 206.836†	3967.0	-0.2295	mg/L	0.00129	-0.2295	mg/L	0.00129	0.56%
Se 196.026†	174859.0	99.80	mg/L	1.922	99.80	mg/L	1.922	1.93%
QC value within limits for Se 196.026 Recovery = 99.80%								
Sn 189.927†	-17.7	-0.0031	mg/L	0.00184	-0.0031	mg/L	0.00184	59.02%
Ti 337.279†	-437.5	-0.0044	mg/L	0.00026	-0.0044	mg/L	0.00026	5.87%
Tl 351.924†	274896.9	112.1	mg/L	1.99	112.1	mg/L	1.99	1.78%
QC value greater than the upper limit for Tl 351.924 Recovery = 112.07%								
V 290.880†	8922096.4	99.78	mg/L	0.932	99.78	mg/L	0.932	0.93%
QC value within limits for V 290.880 Recovery = 99.78%								
Zn 206.200†	3527389.6	89.63	mg/L	1.096	89.63	mg/L	1.096	1.22%
QC value less than the lower limit for Zn 206.200 Recovery = 89.63%								
Zr 343.823†	-168.7	-0.0051	mg/L	0.00003	-0.0051	mg/L	0.00003	0.65%

QC Failed. Continue with analysis.

Al, Cd, Tl, Zn FAIL
~~HCV1 NDC 5/28/24~~

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Batch ID: AVIO 500
Sequence No.: 9
Sample ID: SEQ-HCV2@500/100
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 200

Autosampler Location: 16
Date Collected: 5/27/2024 2:49:00 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-HCV2@500/100

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y radial	560972.4	88.5	%	0.54	88.5	%	0.54	0.61%
Y axial	2048690.0	75.7	%	0.57	75.7	%	0.57	0.75%
Ag 328.068†	-984.4	0.0035	mg/L	0.00042	0.0035	mg/L	0.00042	11.91%
Al 396.153†	12994997.5	537.0	mg/L	14.24	537.0	mg/L	14.24	2.65%
QC value within limits for Al 396.153 Recovery = 107.39%								
As 188.979†	-16.4	0.0067	mg/L	0.00426	0.0067	mg/L	0.00426	63.88%
B 208.889†	763498.3	95.47	mg/L	0.214	95.47	mg/L	0.214	0.22%

Ba 233.527†	1013.8	0.0351 mg/L	0.00111	0.0351 mg/L	0.00111	3.16%
Be 313.107†	3315.5	0.0016 mg/L	0.00008	0.0016 mg/L	0.00008	4.73%
Ca 317.933†	12786756.8	508.2 mg/L	5.50	508.2 mg/L	5.50	1.08%
QC value within limits for Ca 317.933 Recovery = 101.64%						
Cd 228.802†	84.8	0.0035 mg/L	0.00074	0.0035 mg/L	0.00074	20.80%
Co 228.616†	-59.7	-0.0025 mg/L	0.00097	-0.0025 mg/L	0.00097	38.65%
Cr 267.716†	333.8	0.0172 mg/L	0.00019	0.0172 mg/L	0.00019	1.10%
Cu 327.393†	4399.7	0.0606 mg/L	0.00454	0.0606 mg/L	0.00454	7.49%
Fe 238.204†	8920365.3	429.2 mg/L	0.78	429.2 mg/L	0.78	0.18%
QC value less than the lower limit for Fe 238.204 Recovery = 85.83%						
K 766.490†	3186239.0	222.3 mg/L	1.43	222.3 mg/L	1.43	0.64%
QC value greater than the upper limit for K 766.490 Recovery = 111.15%						
Mg 285.213†	10252917.3	188.3 mg/L	1.89	188.3 mg/L	1.89	1.00%
QC value within limits for Mg 285.213 Recovery = 94.13%						
Mn 257.610†	-2764.7	-0.0126 mg/L	0.00039	-0.0126 mg/L	0.00039	3.11%
Mo 202.031†	427.4	0.0228 mg/L	0.00074	0.0228 mg/L	0.00074	3.26%
Na 589.592†	15986039.4	481.3 mg/L	8.06	481.3 mg/L	8.06	1.67%
QC value within limits for Na 589.592 Recovery = 96.26%						
Ni 231.604†	-1019.6	-0.0053 mg/L	0.00075	-0.0053 mg/L	0.00075	14.16%
Pb 220.353†	4.3	0.0421 mg/L	0.00167	0.0421 mg/L	0.00167	3.95%
Sb 206.836†	-69.2	-0.0222 mg/L	0.00437	-0.0222 mg/L	0.00437	19.65%
Se 196.026†	-341.5	0.0825 mg/L	0.00169	0.0825 mg/L	0.00169	2.05%
Sn 189.927†	-21.7	-0.0038 mg/L	0.00011	-0.0038 mg/L	0.00011	2.87%
Ti 337.279†	29.2	0.0003 mg/L	0.00067	0.0003 mg/L	0.00067	233.41%
Tl 351.924†	-256.7	-0.0217 mg/L	0.00191	-0.0217 mg/L	0.00191	8.82%
V 290.880†	1937.5	0.0133 mg/L	0.00065	0.0133 mg/L	0.00065	4.88%
Zn 206.200†	2233.3	0.0122 mg/L	0.00447	0.0122 mg/L	0.00447	36.74%
Zr 343.823†	3641.0	-0.0006 mg/L	0.00013	-0.0006 mg/L	0.00013	21.34%

QC Failed. Continue with analysis.
User canceled analysis.

HCV2 FAIL Fe, K
NDC 5/28/24

ANALYSIS SEQUENCE

S105084

Instrument: ICP4

Calibration ID: 2400589

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
S105084-IFA1	QC		1		24C0959	24D0241	
S105084-IFB1	QC		2		24D0240	24D0241	
S105084-CCV1	QC		3		24D0029	24D0241	
S105084-CCB1	QC		4		24D0837	24D0241	
B374725-BLK2	QC		5			24D0241	Added 5/28/2024 by NC
B374725-BS2	QC		6			24D0241	Added 5/28/2024 by NC
B374725-BSD2	QC		7			24D0241	Added 5/28/2024 by NC
B374725-MS4	QC		8			24D0241	Added 5/28/2024 by NC
B374725-MSD4	QC		9			24D0241	Added 5/28/2024 by NC
24E1437-01	Antimony 6010 Total	A	10			24D0241	CAT B
24E1437-01	Thallium 6010 Total	A	11			24D0241	CAT B
24E1437-02	Antimony 6010 Total	A	12			24D0241	CAT B
24E1437-02	Thallium 6010 Total	A	13			24D0241	CAT B
24E1437-03	Antimony 6010 Total	A	14			24D0241	CAT B
24E1437-03	Thallium 6010 Total	A	15			24D0241	CAT B
24E1437-04	Antimony 6010 Total	A	16			24D0241	CAT B
24E1437-04	Thallium 6010 Total	A	17			24D0241	CAT B
24E1437-05	Antimony 6010 Total	A	18			24D0241	CAT B
24E1437-05	Thallium 6010 Total	A	19			24D0241	CAT B
S105084-CCV2	QC		20		24D0029	24D0241	
S105084-CCB2	QC		21		24D0837	24D0241	
24E1437-06	Antimony 6010 Total	A	22			24D0241	CAT B
24E1437-06	Thallium 6010 Total	A	23			24D0241	CAT B
24E1437-07	Antimony 6010 Total	A	24			24D0241	CAT B
24E1437-07	Thallium 6010 Total	A	25			24D0241	CAT B
24E1437-08	Antimony 6010 Total	A	26			24D0241	CAT B
24E1437-08	Thallium 6010 Total	A	27			24D0241	CAT B
24E1437-09	Antimony 6010 Total	A	28			24D0241	CAT B
24E1437-09	Thallium 6010 Total	A	29			24D0241	CAT B
24E1437-10	Antimony 6010 Total	A	30			24D0241	CAT B
24E1437-10	Thallium 6010 Total	A	31			24D0241	CAT B
24E1437-11	Antimony 6010 Total	A	32			24D0241	CAT B
24E1437-11	Thallium 6010 Total	A	33			24D0241	CAT B

Samples Loaded By Date

Data Processed By Date

ANALYSIS SEQUENCE

S105084

Instrument: ICP4

Calibration ID: 2400589

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
24E1437-12	Antimony 6010 Total	A	34			24D0241	CAT B
24E1437-12	Thallium 6010 Total	A	35			24D0241	CAT B
24E1437-13	Antimony 6010 Total	A	36			24D0241	CAT B
24E1437-13	Thallium 6010 Total	A	37			24D0241	CAT B
24E1437-14	Antimony 6010 Total	A	38			24D0241	CAT B
24E1437-14	Thallium 6010 Total	A	39			24D0241	CAT B
24E1437-15	Antimony 6010 Total	A	40			24D0241	CAT B
24E1437-15	Thallium 6010 Total	A	41			24D0241	CAT B
S105084-CCV3	QC		42		24D0029	24D0241	
S105084-CCB3	QC		43		24D0837	24D0241	
24E1437-16	Antimony 6010 Total	A	44			24D0241	CAT B
24E1437-16	Thallium 6010 Total	A	45			24D0241	CAT B
24E1437-17	Antimony 6010 Total	A	46			24D0241	CAT B
24E1437-17	Thallium 6010 Total	A	47			24D0241	CAT B
24E1437-18	Antimony 6010 Total	A	48			24D0241	CAT B
24E1437-18	Thallium 6010 Total	A	49			24D0241	CAT B
24E1437-19	Antimony 6010 Total	A	50			24D0241	CAT B
24E1437-19	Thallium 6010 Total	A	51			24D0241	CAT B
S105084-CCV4	QC		52		24D0029	24D0241	
S105084-CCB4	QC		53		24D0837	24D0241	

Samples Loaded By Date

Data Processed By Date

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Batch ID: AVIO 500
Sequence No.: 1 **Autosampler Location: 8**
Sample ID: SEQ-ICV@ 23K0257 **Date Collected: 5/27/2024 2:56:19 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample):
User canceled analysis.

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Batch ID: AVIO 500
Sequence No.: 11 **Autosampler Location: 7**
Sample ID: RINSE **Date Collected: 5/27/2024 2:57:14 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample):

Mean Data: RINSE

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	621282.7	98.1	%	0.34	98.1	%	0.34	0.35%
Y axial	2647804.3	97.8	%	0.91	97.8	%	0.91	0.93%
Ag 328.068†	-160.7	-0.0036	mg/L	0.00010	-0.0036	mg/L	0.00010	2.80%
Al 396.153†	81.7	0.0033	mg/L	0.00328	0.0033	mg/L	0.00328	98.86%
As 188.979†	1.6	0.0010	mg/L	0.00233	0.0010	mg/L	0.00233	230.93%
B 208.889†	170.2	0.0212	mg/L	0.00173	0.0212	mg/L	0.00173	8.15%
Ba 233.527†	3.2	0.0001	mg/L	0.00023	0.0001	mg/L	0.00023	208.52%
Be 313.107†	-50.8	-0.0000	mg/L	0.00002	-0.0000	mg/L	0.00002	69.30%
Ca 317.933†	21.8	0.0009	mg/L	0.00053	0.0009	mg/L	0.00053	61.65%
Cd 228.802†	-0.8	-0.0001	mg/L	0.00016	-0.0001	mg/L	0.00016	259.82%
Co 228.616†	-13.7	-0.0006	mg/L	0.00025	-0.0006	mg/L	0.00025	41.33%
Cr 267.716†	33.4	0.0006	mg/L	0.00004	0.0006	mg/L	0.00004	6.65%
Cu 327.393†	1173.4	0.0137	mg/L	0.00022	0.0137	mg/L	0.00022	1.63%
Fe 238.204†	164.1	0.0079	mg/L	0.00035	0.0079	mg/L	0.00035	4.38%
K 766.490†	1475.9	0.1030	mg/L	0.00203	0.1030	mg/L	0.00203	1.97%
Mg 285.213†	147.5	0.0027	mg/L	0.00010	0.0027	mg/L	0.00010	3.58%
Mn 257.610†	34.8	0.0003	mg/L	0.00006	0.0003	mg/L	0.00006	19.35%
Mo 202.031†	15.1	0.0008	mg/L	0.00036	0.0008	mg/L	0.00036	44.45%
Na 589.592†	7741.0	0.2331	mg/L	0.00711	0.2331	mg/L	0.00711	3.05%
Ni 231.604†	-5.1	-0.0001	mg/L	0.00016	-0.0001	mg/L	0.00016	117.52%
Pb 220.353†	18.5	0.0035	mg/L	0.00102	0.0035	mg/L	0.00102	29.44%
Sb 206.836†	2.5	0.0008	mg/L	0.00062	0.0008	mg/L	0.00062	75.20%
Se 196.026†	14.3	0.0082	mg/L	0.00073	0.0082	mg/L	0.00073	8.89%
Sn 189.927†	7.7	0.0014	mg/L	0.00017	0.0014	mg/L	0.00017	12.88%
Ti 337.279†	21.3	0.0002	mg/L	0.00006	0.0002	mg/L	0.00006	27.12%
Tl 351.924†	-6.4	-0.0026	mg/L	0.00297	-0.0026	mg/L	0.00297	113.75%
V 290.880†	-0.6	-0.0000	mg/L	0.00025	-0.0000	mg/L	0.00025	>999.9%
Zn 206.200†	822.8	0.0208	mg/L	0.00083	0.0208	mg/L	0.00083	3.99%
Zr 343.823†	104.2	0.0005	mg/L	0.00010	0.0005	mg/L	0.00010	19.25%

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Batch ID: AVIO 500
Sequence No.: 12 **Autosampler Location: 7**
Sample ID: RINSE **Date Collected: 5/27/2024 3:05:05 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 200

Mean Data: RINSE

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	616660.0	97.3	%	0.42	97.3	%	0.42	0.43%
Y axial	2635847.8	97.4	%	1.01	97.4	%	1.01	1.04%
Ag 328.068†	-177.4	-0.0040	mg/L	0.00025	-0.0040	mg/L	0.00025	6.27%

Al 396.153†	-33.9	-0.0014 mg/L	0.00316	-0.0014 mg/L	0.00316	218.49%
As 188.979†	1.5	0.0009 mg/L	0.00063	0.0009 mg/L	0.00063	65.98%
B 208.889†	74.4	0.0093 mg/L	0.00060	0.0093 mg/L	0.00060	6.45%
Ba 233.527†	7.3	0.0003 mg/L	0.00022	0.0003 mg/L	0.00022	88.38%
Be 313.107†	-82.8	-0.0000 mg/L	0.00002	-0.0000 mg/L	0.00002	44.24%
Ca 317.933†	-43.8	-0.0017 mg/L	0.00090	-0.0017 mg/L	0.00090	51.80%
Cd 228.802†	0.0	-0.0000 mg/L	0.00009	-0.0000 mg/L	0.00009	322.50%
Co 228.616†	-19.1	-0.0008 mg/L	0.00015	-0.0008 mg/L	0.00015	18.54%
Cr 267.716†	36.0	0.0007 mg/L	0.00018	0.0007 mg/L	0.00018	26.78%
Cu 327.393†	619.6	0.0072 mg/L	0.00048	0.0072 mg/L	0.00048	6.67%
Fe 238.204†	119.8	0.0058 mg/L	0.00049	0.0058 mg/L	0.00049	8.46%
K 766.490†	507.2	0.0354 mg/L	0.00259	0.0354 mg/L	0.00259	7.33%
Mg 285.213†	107.2	0.0020 mg/L	0.00012	0.0020 mg/L	0.00012	6.30%
Mn 257.610†	25.1	0.0002 mg/L	0.00005	0.0002 mg/L	0.00005	21.35%
Mo 202.031†	12.5	0.0007 mg/L	0.00025	0.0007 mg/L	0.00025	37.36%
Na 589.592†	-375.2	-0.0113 mg/L	0.00384	-0.0113 mg/L	0.00384	34.01%
Ni 231.604†	-8.5	-0.0002 mg/L	0.00030	-0.0002 mg/L	0.00030	133.03%
Pb 220.353†	9.9	0.0019 mg/L	0.00059	0.0019 mg/L	0.00059	31.53%
Sb 206.836†	3.3	0.0011 mg/L	0.00103	0.0011 mg/L	0.00103	96.18%
Se 196.026†	8.8	0.0050 mg/L	0.00186	0.0050 mg/L	0.00186	37.14%
Sn 189.927†	8.3	0.0015 mg/L	0.00028	0.0015 mg/L	0.00028	19.00%
Ti 337.279†	5.8	0.0001 mg/L	0.00018	0.0001 mg/L	0.00018	303.23%
Tl 351.924†	-1.3	-0.0005 mg/L	0.00225	-0.0005 mg/L	0.00225	437.14%
V 290.880†	-18.1	-0.0002 mg/L	0.00059	-0.0002 mg/L	0.00059	290.59%
Zn 206.200†	483.3	0.0122 mg/L	0.00062	0.0122 mg/L	0.00062	5.10%
Zr 343.823†	103.8	0.0005 mg/L	0.00008	0.0005 mg/L	0.00008	14.97%

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Batch ID: AVIO 500
Sequence No.: 13
Sample ID: B375251-BLK1
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 200

Autosampler Location: 23
Date Collected: 5/27/2024 3:12:56 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: B375251-BLK1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	576086.7	90.9	%	0.32	90.9	%	0.32	0.36%
Y axial	2768611.4	102	%	0.46	102	%	0.46	0.45%
Ag 328.068†	-167.8	-0.0037	mg/L	0.00056	-0.0037	mg/L	0.00056	14.97%
Al 396.153†	137.2	0.0055	mg/L	0.00346	0.0055	mg/L	0.00346	62.85%
As 188.979†	-0.3	-0.0002	mg/L	0.00122	-0.0002	mg/L	0.00122	506.02%
B 208.889†	47.9	0.0059	mg/L	0.00038	0.0059	mg/L	0.00038	6.52%
Ba 233.527†	17.1	0.0006	mg/L	0.00002	0.0006	mg/L	0.00002	4.00%
Be 313.107†	1412.5	0.0007	mg/L	0.00002	0.0007	mg/L	0.00002	2.48%
Ca 317.933†	2373.0	0.0943	mg/L	0.00022	0.0943	mg/L	0.00022	0.23%
Cd 228.802†	-10.7	-0.0004	mg/L	0.00004	-0.0004	mg/L	0.00004	10.91%
Co 228.616†	-22.6	-0.0010	mg/L	0.00020	-0.0010	mg/L	0.00020	20.93%
Cr 267.716†	307.8	0.0058	mg/L	0.00014	0.0058	mg/L	0.00014	2.50%
Cu 327.393†	245.8	0.0029	mg/L	0.00019	0.0029	mg/L	0.00019	6.78%
Fe 238.204†	437.2	0.0210	mg/L	0.00028	0.0210	mg/L	0.00028	1.31%
K 766.490†	658.8	0.0460	mg/L	0.00703	0.0460	mg/L	0.00703	15.30%
Mg 285.213†	733.0	0.0134	mg/L	0.00027	0.0134	mg/L	0.00027	2.02%
Mn 257.610†	12.7	0.0001	mg/L	0.00004	0.0001	mg/L	0.00004	32.03%
Mo 202.031†	45.0	0.0024	mg/L	0.00024	0.0024	mg/L	0.00024	10.08%
Na 589.592†	3578.8	0.1078	mg/L	0.01122	0.1078	mg/L	0.01122	10.42%
Ni 231.604†	-5.7	-0.0001	mg/L	0.00039	-0.0001	mg/L	0.00039	265.09%
Pb 220.353†	-1.1	-0.0002	mg/L	0.00074	-0.0002	mg/L	0.00074	347.60%
Sb 206.836†	6.4	0.0020	mg/L	0.00105	0.0020	mg/L	0.00105	51.54%
Se 196.026†	18.0	0.0103	mg/L	0.00152	0.0103	mg/L	0.00152	14.80%
Sn 189.927†	12.9	0.0023	mg/L	0.00028	0.0023	mg/L	0.00028	12.46%
Ti 337.279†	35.2	0.0004	mg/L	0.00005	0.0004	mg/L	0.00005	13.02%
Tl 351.924†	1.3	0.0005	mg/L	0.00150	0.0005	mg/L	0.00150	278.20%
V 290.880†	141.2	0.0016	mg/L	0.00032	0.0016	mg/L	0.00032	20.42%
Zn 206.200†	182.9	0.0046	mg/L	0.00021	0.0046	mg/L	0.00021	4.43%
Zr 343.823†	109.6	0.0005	mg/L	0.00015	0.0005	mg/L	0.00015	27.29%

Batch ID: AVIO 500
Sequence No.: 14 **Autosampler Location: 24**
Sample ID: B375251-BS1 **Date Collected: 5/27/2024 3:19:08 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 100

Mean Data: B375251-BS1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	590530.5	93.2	%	0.60	93.2	%	0.60	0.65%
Y axial	2738991.0	101	%	0.33	101	%	0.33	0.32%
Ag 328.068†	1286.3	0.0316	mg/L	0.00097	0.0316	mg/L	0.00097	3.08%
Al 396.153†	14807.8	0.5820	mg/L	0.01061	0.5820	mg/L	0.01061	1.82%
As 188.979†	738.7	0.4774	mg/L	0.00032	0.4774	mg/L	0.00032	0.07%
B 208.889†	8038.1	0.9755	mg/L	0.00290	0.9755	mg/L	0.00290	0.30%
Ba 233.527†	14557.6	0.5044	mg/L	0.00596	0.5044	mg/L	0.00596	1.18%
Be 313.107†	1070758.0	0.5432	mg/L	0.00359	0.5432	mg/L	0.00359	0.66%
Ca 317.933†	106289.0	4.225	mg/L	0.0455	4.225	mg/L	0.0455	1.08%
Cd 228.802†	13538.4	0.5059	mg/L	0.00113	0.5059	mg/L	0.00113	0.22%
Co 228.616†	11987.0	0.5171	mg/L	0.00295	0.5171	mg/L	0.00295	0.57%
Cr 267.716†	27494.5	0.5141	mg/L	0.00369	0.5141	mg/L	0.00369	0.72%
Cu 327.393†	95054.0	1.109	mg/L	0.0121	1.109	mg/L	0.0121	1.09%
Fe 238.204†	96243.6	4.637	mg/L	0.0542	4.637	mg/L	0.0542	1.17%
K 766.490†	105321.8	7.348	mg/L	0.1829	7.348	mg/L	0.1829	2.49%
Mg 285.213†	234141.0	4.298	mg/L	0.0462	4.298	mg/L	0.0462	1.07%
Mn 257.610†	65384.1	0.5718	mg/L	0.00744	0.5718	mg/L	0.00744	1.30%
Mo 202.031†	9708.1	0.5186	mg/L	0.00540	0.5186	mg/L	0.00540	1.04%
Na 589.592†	179588.7	5.407	mg/L	0.1136	5.407	mg/L	0.1136	2.10%
Ni 231.604†	19650.7	0.5210	mg/L	0.00300	0.5210	mg/L	0.00300	0.58%
Pb 220.353†	2627.8	0.4966	mg/L	0.00144	0.4966	mg/L	0.00144	0.29%
Sb 206.836†	1572.6	0.5143	mg/L	0.00080	0.5143	mg/L	0.00080	0.15%
Se 196.026†	879.4	0.5045	mg/L	0.00346	0.5045	mg/L	0.00346	0.69%
Sn 189.927†	2916.4	0.5120	mg/L	0.00130	0.5120	mg/L	0.00130	0.25%
Ti 337.279†	52496.6	0.5268	mg/L	0.00392	0.5268	mg/L	0.00392	0.74%
Tl 351.924†	1360.3	0.5542	mg/L	0.00125	0.5542	mg/L	0.00125	0.23%
V 290.880†	45782.9	0.5122	mg/L	0.00364	0.5122	mg/L	0.00364	0.71%
Zn 206.200†	39437.5	0.9987	mg/L	0.00711	0.9987	mg/L	0.00711	0.71%
Zr 343.823†	117.4	0.0004	mg/L	0.00003	0.0004	mg/L	0.00003	8.80%

Batch ID: AVIO 500
Sequence No.: 15 **Autosampler Location: 25**
Sample ID: B375251-BSD1 **Date Collected: 5/27/2024 3:26:07 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 200

Mean Data: B375251-BSD1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	579925.9	91.5	%	0.07	91.5	%	0.07	0.08%
Y axial	2709116.4	100	%	0.39	100	%	0.39	0.39%
Ag 328.068†	1269.3	0.0312	mg/L	0.00042	0.0312	mg/L	0.00042	1.36%
Al 396.153†	14589.6	0.5732	mg/L	0.00304	0.5732	mg/L	0.00304	0.53%
As 188.979†	727.0	0.4699	mg/L	0.00415	0.4699	mg/L	0.00415	0.88%
B 208.889†	7932.9	0.9626	mg/L	0.00518	0.9626	mg/L	0.00518	0.54%
Ba 233.527†	14326.3	0.4964	mg/L	0.00245	0.4964	mg/L	0.00245	0.49%
Be 313.107†	1068073.5	0.5418	mg/L	0.00156	0.5418	mg/L	0.00156	0.29%
Ca 317.933†	105321.1	4.186	mg/L	0.0066	4.186	mg/L	0.0066	0.16%
Cd 228.802†	13436.9	0.5022	mg/L	0.00058	0.5022	mg/L	0.00058	0.12%
Co 228.616†	11964.2	0.5161	mg/L	0.00229	0.5161	mg/L	0.00229	0.44%
Cr 267.716†	27419.5	0.5127	mg/L	0.00099	0.5127	mg/L	0.00099	0.19%
Cu 327.393†	94520.4	1.103	mg/L	0.0069	1.103	mg/L	0.0069	0.63%
Fe 238.204†	95579.7	4.605	mg/L	0.0023	4.605	mg/L	0.0023	0.05%

K 766.490†	103276.7	7.205	mg/L	0.0970	7.205	mg/L	0.0970	1.35%
Mg 285.213†	233150.2	4.280	mg/L	0.0043	4.280	mg/L	0.0043	0.10%
Mn 257.610†	64847.1	0.5671	mg/L	0.00053	0.5671	mg/L	0.00053	0.09%
Mo 202.031†	9613.8	0.5136	mg/L	0.00209	0.5136	mg/L	0.00209	0.41%
Na 589.592†	176896.4	5.326	mg/L	0.0326	5.326	mg/L	0.0326	0.61%
Ni 231.604†	19649.1	0.5209	mg/L	0.00140	0.5209	mg/L	0.00140	0.27%
Pb 220.353†	2592.5	0.4899	mg/L	0.00179	0.4899	mg/L	0.00179	0.37%
Sb 206.836†	1553.2	0.5079	mg/L	0.00350	0.5079	mg/L	0.00350	0.69%
Se 196.026†	867.5	0.4977	mg/L	0.00296	0.4977	mg/L	0.00296	0.60%
Sn 189.927†	2883.1	0.5061	mg/L	0.00282	0.5061	mg/L	0.00282	0.56%
Ti 337.279†	52441.6	0.5262	mg/L	0.00072	0.5262	mg/L	0.00072	0.14%
Tl 351.924†	1358.4	0.5535	mg/L	0.00526	0.5535	mg/L	0.00526	0.95%
V 290.880†	45525.6	0.5094	mg/L	0.00095	0.5094	mg/L	0.00095	0.19%
Zn 206.200†	38986.6	0.9874	mg/L	0.00325	0.9874	mg/L	0.00325	0.33%
Zr 343.823†	116.4	0.0004	mg/L	0.00003	0.0004	mg/L	0.00003	7.60%

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Batch ID: AVIO 500
Sequence No.: 16
Sample ID: B375251-PS1
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 200

Autosampler Location: 26
Date Collected: 5/27/2024 3:33:05 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: B375251-PS1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y radial	585354.8	92.4	%	0.16	92.4	%	0.16	0.17%
Y axial	2628039.1	97.1	%	0.36	97.1	%	0.36	0.37%
Ag 328.068†	89164.2	2.004	mg/L	0.0129	2.004	mg/L	0.0129	0.65%
Al 396.153†	60976.0	2.401	mg/L	0.0137	2.401	mg/L	0.0137	0.57%
As 188.979†	2961.9	1.915	mg/L	0.0106	1.915	mg/L	0.0106	0.55%
B 208.889†	32222.3	3.912	mg/L	0.0230	3.912	mg/L	0.0230	0.59%
Ba 233.527†	58261.3	2.019	mg/L	0.0194	2.019	mg/L	0.0194	0.96%
Be 313.107†	4198233.9	2.130	mg/L	0.0102	2.130	mg/L	0.0102	0.48%
Ca 317.933†	416328.4	16.55	mg/L	0.023	16.55	mg/L	0.023	0.14%
Cd 228.802†	53423.8	1.995	mg/L	0.0146	1.995	mg/L	0.0146	0.73%
Co 228.616†	46865.6	2.022	mg/L	0.0135	2.022	mg/L	0.0135	0.67%
Cr 267.716†	108130.0	2.022	mg/L	0.0150	2.022	mg/L	0.0150	0.74%
Cu 327.393†	372176.6	4.341	mg/L	0.0127	4.341	mg/L	0.0127	0.29%
Fe 238.204†	373264.4	17.98	mg/L	0.049	17.98	mg/L	0.049	0.27%
K 766.490†	416709.8	29.07	mg/L	0.201	29.07	mg/L	0.201	0.69%
Mg 285.213†	938117.2	17.22	mg/L	0.108	17.22	mg/L	0.108	0.63%
Mn 257.610†	252637.6	2.210	mg/L	0.0073	2.210	mg/L	0.0073	0.33%
Mo 202.031†	38351.9	2.049	mg/L	0.0151	2.049	mg/L	0.0151	0.73%
Na 589.592†	690943.2	20.80	mg/L	0.121	20.80	mg/L	0.121	0.58%
Ni 231.604†	76187.7	2.020	mg/L	0.0177	2.020	mg/L	0.0177	0.87%
Pb 220.353†	9995.9	1.889	mg/L	0.0071	1.889	mg/L	0.0071	0.38%
Sb 206.836†	6169.2	2.018	mg/L	0.0098	2.018	mg/L	0.0098	0.48%
Se 196.026†	3500.3	2.008	mg/L	0.0092	2.008	mg/L	0.0092	0.46%
Sn 189.927†	11358.1	1.994	mg/L	0.0135	1.994	mg/L	0.0135	0.68%
Ti 337.279†	207674.1	2.084	mg/L	0.0030	2.084	mg/L	0.0030	0.14%
Tl 351.924†	5292.4	2.156	mg/L	0.0079	2.156	mg/L	0.0079	0.36%
V 290.880†	181938.2	2.036	mg/L	0.0156	2.036	mg/L	0.0156	0.77%
Zn 206.200†	153041.5	3.876	mg/L	0.0314	3.876	mg/L	0.0314	0.81%
Zr 343.823†	220.0	0.0003	mg/L	0.00001	0.0003	mg/L	0.00001	2.15%

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Batch ID: AVIO 500
Sequence No.: 17
Sample ID: B375251-SRL1
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 200

Autosampler Location: 27
Date Collected: 5/27/2024 3:39:58 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: B375251-SRL1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	593026.1	93.6	%	0.39	93.6	%	0.39	0.41%
Y axial	2717883.7	100	%	0.09	100	%	0.09	0.09%
Ag 328.068†	-119.3	-0.0027	mg/L	0.00032	-0.0027	mg/L	0.00032	12.02%
Al 396.153†	141.0	0.0058	mg/L	0.00080	0.0058	mg/L	0.00080	13.96%
As 188.979†	0.2	0.0001	mg/L	0.00159	0.0001	mg/L	0.00159	>999.9%
B 208.889†	26.4	0.0032	mg/L	0.00032	0.0032	mg/L	0.00032	9.88%
Ba 233.527†	11.1	0.0004	mg/L	0.00007	0.0004	mg/L	0.00007	18.71%
Be 313.107†	585.6	0.0003	mg/L	0.00002	0.0003	mg/L	0.00002	6.73%
Ca 317.933†	1195.2	0.0475	mg/L	0.00094	0.0475	mg/L	0.00094	1.98%
Cd 228.802†	-7.5	-0.0003	mg/L	0.00020	-0.0003	mg/L	0.00020	68.75%
Co 228.616†	-24.7	-0.0011	mg/L	0.00001	-0.0011	mg/L	0.00001	1.08%
Cr 267.716†	187.3	0.0035	mg/L	0.00014	0.0035	mg/L	0.00014	4.00%
Cu 327.393†	44.5	0.0005	mg/L	0.00014	0.0005	mg/L	0.00014	26.03%
Fe 238.204†	273.5	0.0131	mg/L	0.00042	0.0131	mg/L	0.00042	3.22%
K 766.490†	542.5	0.0379	mg/L	0.00465	0.0379	mg/L	0.00465	12.28%
Mg 285.213†	372.6	0.0068	mg/L	0.00005	0.0068	mg/L	0.00005	0.67%
Mn 257.610†	14.7	0.0001	mg/L	0.00008	0.0001	mg/L	0.00008	63.68%
Mo 202.031†	17.5	0.0009	mg/L	0.00050	0.0009	mg/L	0.00050	53.70%
Na 589.592†	-3003.6	-0.0904	mg/L	0.00549	-0.0904	mg/L	0.00549	6.07%
Ni 231.604†	-5.0	-0.0001	mg/L	0.00016	-0.0001	mg/L	0.00016	118.93%
Pb 220.353†	10.3	0.0019	mg/L	0.00074	0.0019	mg/L	0.00074	38.05%
Sb 206.836†	1.8	0.0005	mg/L	0.00072	0.0005	mg/L	0.00072	136.42%
Se 196.026†	6.8	0.0039	mg/L	0.00115	0.0039	mg/L	0.00115	29.31%
Sn 189.927†	9.2	0.0016	mg/L	0.00075	0.0016	mg/L	0.00075	46.62%
Ti 337.279†	46.7	0.0005	mg/L	0.00004	0.0005	mg/L	0.00004	8.84%
Tl 351.924†	2.0	0.0008	mg/L	0.00213	0.0008	mg/L	0.00213	255.41%
V 290.880†	25.0	0.0003	mg/L	0.00029	0.0003	mg/L	0.00029	102.61%
Zn 206.200†	193.1	0.0049	mg/L	0.00011	0.0049	mg/L	0.00011	2.31%
Zr 343.823†	71.4	0.0003	mg/L	0.00024	0.0003	mg/L	0.00024	68.55%

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Batch ID: AVIO 500
Sequence No.: 18 **Autosampler Location: 28**
Sample ID: 24E2440-01 **Date Collected: 5/27/2024 3:46:09 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 100

Mean Data: 24E2440-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	586215.4	92.5	%	0.56	92.5	%	0.56	0.61%
Y axial	2770386.8	102	%	0.56	102	%	0.56	0.54%
Ag 328.068†	-142.3	-0.0032	mg/L	0.00053	-0.0032	mg/L	0.00053	16.62%
Al 396.153†	424.8	0.0173	mg/L	0.00243	0.0173	mg/L	0.00243	14.01%
As 188.979†	-1.1	-0.0007	mg/L	0.00146	-0.0007	mg/L	0.00146	202.60%
B 208.889†	21.4	0.0025	mg/L	0.00039	0.0025	mg/L	0.00039	15.53%
Ba 233.527†	45.6	0.0016	mg/L	0.00019	0.0016	mg/L	0.00019	12.11%
Be 313.107†	1143.1	0.0006	mg/L	0.00001	0.0006	mg/L	0.00001	1.58%
Ca 317.933†	5789.9	0.2301	mg/L	0.00199	0.2301	mg/L	0.00199	0.87%
Cd 228.802†	-11.9	-0.0004	mg/L	0.00011	-0.0004	mg/L	0.00011	25.14%
Co 228.616†	-18.2	-0.0008	mg/L	0.00004	-0.0008	mg/L	0.00004	5.18%
Cr 267.716†	915.4	0.0171	mg/L	0.00026	0.0171	mg/L	0.00026	1.53%
Cu 327.393†	153.6	0.0018	mg/L	0.00026	0.0018	mg/L	0.00026	14.58%
Fe 238.204†	1275.7	0.0614	mg/L	0.00047	0.0614	mg/L	0.00047	0.77%
K 766.490†	588.6	0.0411	mg/L	0.00329	0.0411	mg/L	0.00329	8.02%
Mg 285.213†	1114.7	0.0204	mg/L	0.00014	0.0204	mg/L	0.00014	0.68%
Mn 257.610†	156.6	0.0014	mg/L	0.00009	0.0014	mg/L	0.00009	6.76%
Mo 202.031†	47.0	0.0025	mg/L	0.00047	0.0025	mg/L	0.00047	18.54%
Na 589.592†	-2457.2	-0.0740	mg/L	0.00504	-0.0740	mg/L	0.00504	6.81%
Ni 231.604†	24.0	0.0006	mg/L	0.00023	0.0006	mg/L	0.00023	35.84%
Pb 220.353†	4.0	0.0008	mg/L	0.00088	0.0008	mg/L	0.00088	116.52%
Sb 206.836†	4.6	0.0013	mg/L	0.00217	0.0013	mg/L	0.00217	171.24%
Se 196.026†	15.0	0.0086	mg/L	0.00175	0.0086	mg/L	0.00175	20.41%
Sn 189.927†	12.0	0.0021	mg/L	0.00014	0.0021	mg/L	0.00014	6.60%
Ti 337.279†	120.2	0.0012	mg/L	0.00012	0.0012	mg/L	0.00012	10.34%

Tl 351.924†	-7.0	-0.0028 mg/L	0.00130	-0.0028 mg/L	0.00130	45.78%
V 290.880†	98.3	0.0011 mg/L	0.00045	0.0011 mg/L	0.00045	41.09%
Zn 206.200†	340.1	0.0087 mg/L	0.00015	0.0087 mg/L	0.00015	1.67%
Zr 343.823†	88.8	0.0004 mg/L	0.00014	0.0004 mg/L	0.00014	32.85%

Batch ID: AVIO 500
Sequence No.: 19
Sample ID: 24E2440-02
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 100

Autosampler Location: 29
Date Collected: 5/27/2024 3:52:20 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 24E2440-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	Sample RSD
Y radial	590088.9	93.1	%	1.02	93.1	%	1.02	1.09%
Y axial	2792614.8	103	%	0.98	103	%	0.98	0.95%
Ag 328.068†	-156.7	-0.0035	mg/L	0.00024	-0.0035	mg/L	0.00024	6.98%
Al 396.153†	503.2	0.0205	mg/L	0.00192	0.0205	mg/L	0.00192	9.33%
As 188.979†	-2.2	-0.0015	mg/L	0.00111	-0.0015	mg/L	0.00111	73.92%
B 208.889†	17.0	0.0020	mg/L	0.00075	0.0020	mg/L	0.00075	37.71%
Ba 233.527†	67.6	0.0023	mg/L	0.00005	0.0023	mg/L	0.00005	1.96%
Be 313.107†	1209.3	0.0006	mg/L	0.00003	0.0006	mg/L	0.00003	4.49%
Ca 317.933†	8757.2	0.3481	mg/L	0.00605	0.3481	mg/L	0.00605	1.74%
Cd 228.802†	-5.7	-0.0002	mg/L	0.00005	-0.0002	mg/L	0.00005	28.00%
Co 228.616†	-22.6	-0.0010	mg/L	0.00020	-0.0010	mg/L	0.00020	20.71%
Cr 267.716†	997.7	0.0186	mg/L	0.00036	0.0186	mg/L	0.00036	1.91%
Cu 327.393†	193.7	0.0023	mg/L	0.00012	0.0023	mg/L	0.00012	5.30%
Fe 238.204†	1531.3	0.0737	mg/L	0.00106	0.0737	mg/L	0.00106	1.44%
K 766.490†	509.4	0.0355	mg/L	0.00184	0.0355	mg/L	0.00184	5.18%
Mg 285.213†	1189.4	0.0218	mg/L	0.00042	0.0218	mg/L	0.00042	1.91%
Mn 257.610†	200.6	0.0018	mg/L	0.00008	0.0018	mg/L	0.00008	4.68%
Mo 202.031†	50.3	0.0027	mg/L	0.00015	0.0027	mg/L	0.00015	5.58%
Na 589.592†	-2753.4	-0.0829	mg/L	0.00372	-0.0829	mg/L	0.00372	4.49%
Ni 231.604†	39.2	0.0010	mg/L	0.00016	0.0010	mg/L	0.00016	15.22%
Pb 220.353†	-0.1	-0.0000	mg/L	0.00044	-0.0000	mg/L	0.00044	>999.9%
Sb 206.836†	5.7	0.0016	mg/L	0.00156	0.0016	mg/L	0.00156	99.16%
Se 196.026†	15.4	0.0088	mg/L	0.00053	0.0088	mg/L	0.00053	6.03%
Sn 189.927†	14.6	0.0026	mg/L	0.00017	0.0026	mg/L	0.00017	6.53%
Ti 337.279†	142.1	0.0014	mg/L	0.00023	0.0014	mg/L	0.00023	16.24%
Tl 351.924†	-2.7	-0.0011	mg/L	0.00111	-0.0011	mg/L	0.00111	101.93%
V 290.880†	95.8	0.0011	mg/L	0.00035	0.0011	mg/L	0.00035	32.53%
Zn 206.200†	548.0	0.0140	mg/L	0.00017	0.0140	mg/L	0.00017	1.23%
Zr 343.823†	105.3	0.0005	mg/L	0.00013	0.0005	mg/L	0.00013	25.34%

Batch ID: AVIO 500
Sequence No.: 20
Sample ID: 24E2440-05
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 100

Autosampler Location: 30
Date Collected: 5/27/2024 3:58:31 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 24E2440-05

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	Sample RSD
Y radial	582755.7	92.0	%	0.12	92.0	%	0.12	0.13%
Y axial	2803762.4	104	%	0.70	104	%	0.70	0.68%
Ag 328.068†	-151.4	-0.0034	mg/L	0.00030	-0.0034	mg/L	0.00030	9.02%
Al 396.153†	230.9	0.0094	mg/L	0.00112	0.0094	mg/L	0.00112	11.98%
As 188.979†	-2.0	-0.0014	mg/L	0.00232	-0.0014	mg/L	0.00232	169.84%
B 208.889†	13.9	0.0016	mg/L	0.00056	0.0016	mg/L	0.00056	35.14%
Ba 233.527†	6.8	0.0002	mg/L	0.00010	0.0002	mg/L	0.00010	42.23%
Be 313.107†	1357.4	0.0007	mg/L	0.00002	0.0007	mg/L	0.00002	2.21%
Ca 317.933†	2954.2	0.1174	mg/L	0.00131	0.1174	mg/L	0.00131	1.11%

Cd 228.802†	-11.9	-0.0004 mg/L	0.00020	-0.0004 mg/L	0.00020	47.48%
Co 228.616†	-22.0	-0.0009 mg/L	0.00018	-0.0009 mg/L	0.00018	19.48%
Cr 267.716†	897.2	0.0168 mg/L	0.00025	0.0168 mg/L	0.00025	1.48%
Cu 327.393†	30.0	0.0004 mg/L	0.00041	0.0004 mg/L	0.00041	115.94%
Fe 238.204†	399.1	0.0192 mg/L	0.00029	0.0192 mg/L	0.00029	1.53%
K 766.490†	345.3	0.0241 mg/L	0.00376	0.0241 mg/L	0.00376	15.61%
Mg 285.213†	951.1	0.0174 mg/L	0.00026	0.0174 mg/L	0.00026	1.48%
Mn 257.610†	28.9	0.0003 mg/L	0.00003	0.0003 mg/L	0.00003	12.33%
Mo 202.031†	48.9	0.0026 mg/L	0.00041	0.0026 mg/L	0.00041	15.52%
Na 589.592†	-2883.8	-0.0868 mg/L	0.00737	-0.0868 mg/L	0.00737	8.49%
Ni 231.604†	17.8	0.0005 mg/L	0.00010	0.0005 mg/L	0.00010	21.57%
Pb 220.353†	1.3	0.0002 mg/L	0.00084	0.0002 mg/L	0.00084	346.08%
Sb 206.836†	9.6	0.0029 mg/L	0.00187	0.0029 mg/L	0.00187	64.54%
Se 196.026†	12.8	0.0073 mg/L	0.00147	0.0073 mg/L	0.00147	20.01%
Sn 189.927†	14.4	0.0025 mg/L	0.00025	0.0025 mg/L	0.00025	10.08%
Ti 337.279†	32.7	0.0003 mg/L	0.00033	0.0003 mg/L	0.00033	101.87%
Tl 351.924†	-4.1	-0.0016 mg/L	0.00276	-0.0016 mg/L	0.00276	167.44%
V 290.880†	78.5	0.0009 mg/L	0.00017	0.0009 mg/L	0.00017	19.64%
Zn 206.200†	215.1	0.0055 mg/L	0.00012	0.0055 mg/L	0.00012	2.21%
Zr 343.823†	75.1	0.0004 mg/L	0.00018	0.0004 mg/L	0.00018	49.63%

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Batch ID: AVIO 500
Sequence No.: 21
Sample ID: SEQ-IFA@ 23I0975
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 100

Autosampler Location: 11
Date Collected: 5/27/2024 4:04:42 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

RAN OUT OF SOLN, NOT REQ'D TO CLOSE WINDOW PER METHOD
MJH 5-28-24

Mean Data: SEQ-IFA@ 23I0975

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	1564252.9	247	%	7.74	247	%	7.74	3.13%
Internal Standard Check greater than the upper limit for Y radial. Recovery = 246.9%								
Y axial	5625502.1	208	%	3.79	208	%	3.79	1.82%
Internal Standard Check greater than the upper limit for Y axial. Recovery = 207.8%								
Ag 328.068†	-189.6	-0.0043	mg/L	0.00021	-0.0043	mg/L	0.00021	4.94%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	6044.0	0.2497	mg/L	0.40018	0.2497	mg/L	0.40018	160.29%
QC value less than the lower limit for Al 396.153 Recovery = 0.10%								
As 188.979†	2.5	0.0016	mg/L	0.00087	0.0016	mg/L	0.00087	53.19%
QC value within limits for As 188.979 Recovery = Not calculated								
B 208.889†	-14.5	-0.0018	mg/L	0.00022	-0.0018	mg/L	0.00022	12.20%
QC value within limits for B 208.889 Recovery = Not calculated								
Ba 233.527†	1.1	0.0000	mg/L	0.00011	0.0000	mg/L	0.00011	280.31%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-5142.5	-0.0026	mg/L	0.00004	-0.0026	mg/L	0.00004	1.36%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	10621.3	0.4222	mg/L	0.69415	0.4222	mg/L	0.69415	164.43%
QC value less than the lower limit for Ca 317.933 Recovery = 0.17%								
Cd 228.802†	-31.3	-0.0012	mg/L	0.00008	-0.0012	mg/L	0.00008	6.04%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	-6.7	-0.0003	mg/L	0.00010	-0.0003	mg/L	0.00010	33.60%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-17.7	-0.0003	mg/L	0.00004	-0.0003	mg/L	0.00004	10.57%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	59.8	0.0007	mg/L	0.00009	0.0007	mg/L	0.00009	12.87%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 238.204†	3363.0	0.1618	mg/L	0.25969	0.1618	mg/L	0.25969	160.51%
QC value less than the lower limit for Fe 238.204 Recovery = 0.16%								
K 766.490†	-18.1	-0.0013	mg/L	0.00044	-0.0013	mg/L	0.00044	35.01%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213†	18403.8	0.3376	mg/L	0.53260	0.3376	mg/L	0.53260	157.77%
QC value less than the lower limit for Mg 285.213 Recovery = 0.14%								
Mn 257.610†	5.9	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	31.26%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	9.1	0.0005	mg/L	0.00009	0.0005	mg/L	0.00009	18.50%
QC value within limits for Mo 202.031 Recovery = Not calculated								

Na 589.592†	-10545.5	-0.3175 mg/L	0.00663	-0.3175 mg/L	0.00663	2.09%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	76.5	0.0020 mg/L	0.00009	0.0020 mg/L	0.00009	4.19%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	-7.8	-0.0014 mg/L	0.00027	-0.0014 mg/L	0.00027	18.59%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	-7.7	-0.0025 mg/L	0.00022	-0.0025 mg/L	0.00022	8.90%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-1.0	-0.0005 mg/L	0.00090	-0.0005 mg/L	0.00090	187.38%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	3.7	0.0006 mg/L	0.00029	0.0006 mg/L	0.00029	44.24%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	138.3	0.0014 mg/L	0.00004	0.0014 mg/L	0.00004	2.54%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 351.924†	-0.0	0.0000 mg/L	0.00163	0.0000 mg/L	0.00163	>999.9%
QC value within limits for Tl 351.924 Recovery = Not calculated						
V 290.880†	-1054.8	-0.0118 mg/L	0.00011	-0.0118 mg/L	0.00011	0.90%
QC value less than the lower limit for V 290.880 Recovery = Not calculated						
Zn 206.200†	52.6	0.0014 mg/L	0.00005	0.0014 mg/L	0.00005	4.01%
QC value within limits for Zn 206.200 Recovery = Not calculated						
Zr 343.823†	89.1	0.0004 mg/L	0.00003	0.0004 mg/L	0.00003	7.80%

Internal Standard Check failed. Continue with analysis.
QC Failed. Continue with analysis.

RAN OUT OF SOLN, NOT REQ'D TO CLOSE WINDOW PER METHOD MJH 5-28-24

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Batch ID: AVIO 500
Sequence No.: 22 **Autosampler Location: 12**
Sample ID: SEQ-IFB@ 23I0976 **Date Collected: 5/27/2024 4:10:55 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 100

Mean Data: SEQ-IFB@ 23I0976

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	576297.3	91.0	%	0.11	91.0	%	0.11	0.12%
Y axial	2296721.2	84.9	%	0.13	84.9	%	0.13	0.15%
Ag 328.068†	-655.7	0.0006	mg/L	0.00103	0.0006	mg/L	0.00103	186.51%
QC value less than the lower limit for Ag 328.068 Recovery = 0.14%								
Al 396.153†	7282252.3	300.9	mg/L	1.50	300.9	mg/L	1.50	0.50%
QC value greater than the upper limit for Al 396.153 Recovery = 120.37%								
As 188.979†	226.0	0.1571	mg/L	0.06904	0.1571	mg/L	0.06904	43.96%
QC value less than the lower limit for As 188.979 Recovery = 78.53%								
B 208.889†	22.7	0.0015	mg/L	0.00066	0.0015	mg/L	0.00066	44.10%
QC value within limits for B 208.889 Recovery = Not calculated								
Ba 233.527†	29561.5	1.024	mg/L	0.0016	1.024	mg/L	0.0016	0.15%
QC value within limits for Ba 233.527 Recovery = 102.43%								
Be 313.107†	2050644.3	1.040	mg/L	0.0010	1.040	mg/L	0.0010	0.09%
QC value within limits for Be 313.107 Recovery = 104.02%								
Ca 317.933†	6235793.3	247.8	mg/L	0.32	247.8	mg/L	0.32	0.13%
QC value within limits for Ca 317.933 Recovery = 99.14%								
Cd 228.802†	54065.5	2.065	mg/L	0.0121	2.065	mg/L	0.0121	0.59%
QC value within limits for Cd 228.802 Recovery = 103.26%								
Co 228.616†	20845.6	0.9006	mg/L	0.00530	0.9006	mg/L	0.00530	0.59%
QC value within limits for Co 228.616 Recovery = 90.06%								
Cr 267.716†	51897.6	0.9728	mg/L	0.00434	0.9728	mg/L	0.00434	0.45%
QC value within limits for Cr 267.716 Recovery = 97.28%								
Cu 327.393†	86271.9	1.010	mg/L	0.0046	1.010	mg/L	0.0046	0.45%
QC value within limits for Cu 327.393 Recovery = 101.04%								
Fe 238.204†	2051336.7	98.70	mg/L	0.353	98.70	mg/L	0.353	0.36%
QC value within limits for Fe 238.204 Recovery = 98.70%								
K 766.490†	134.3	0.0094	mg/L	0.00234	0.0094	mg/L	0.00234	24.99%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213†	12072298.6	221.5	mg/L	0.04	221.5	mg/L	0.04	0.02%
QC value within limits for Mg 285.213 Recovery = 88.59%								
Mn 257.610†	112767.9	0.9887	mg/L	0.00342	0.9887	mg/L	0.00342	0.35%
QC value within limits for Mn 257.610 Recovery = 98.87%								
Mo 202.031†	442.8	0.0237	mg/L	0.00740	0.0237	mg/L	0.00740	31.28%

RAN OUT OF SOLN, NOT REQ'D TO CLOSE WINDOW PER METHOD MJH 5-28-24

QC value within limits for Mo 202.031 Recovery = Not calculated

Na 589.592†	-815.4	-0.0246 mg/L	0.00436	-0.0246 mg/L	0.00436	17.75%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	67152.9	1.786 mg/L	0.0038	1.786 mg/L	0.0038	0.21%
QC value within limits for Ni 231.604 Recovery = 89.31%						
Pb 220.353†	314.8	0.0858 mg/L	0.02229	0.0858 mg/L	0.02229	25.97%
QC value within limits for Pb 220.353 Recovery = 85.82%						
Sb 206.836†	2909.0	0.9334 mg/L	0.36949	0.9334 mg/L	0.36949	39.59%
QC value less than the lower limit for Sb 206.836 Recovery = 77.78%						
Se 196.026†	732.3	0.4811 mg/L	0.17663	0.4811 mg/L	0.17663	36.72%
QC value within limits for Se 196.026 Recovery = 96.21%						
Sn 189.927†	-29.9	-0.0053 mg/L	0.00137	-0.0053 mg/L	0.00137	26.08%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	-57.5	-0.0006 mg/L	0.00118	-0.0006 mg/L	0.00118	203.67%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 351.924†	406.4	0.1838 mg/L	0.06759	0.1838 mg/L	0.06759	36.77%
QC value within limits for Tl 351.924 Recovery = 91.90%						
V 290.880†	86971.2	0.9890 mg/L	0.00531	0.9890 mg/L	0.00531	0.54%
QC value within limits for V 290.880 Recovery = 98.90%						
Zn 206.200†	72413.7	1.835 mg/L	0.0045	1.835 mg/L	0.0045	0.25%
QC value within limits for Zn 206.200 Recovery = 91.75%						
Zr 343.823†	699.2	-0.0008 mg/L	0.00128	-0.0008 mg/L	0.00128	156.55%

QC Failed. Continue with analysis.

RAN OUT OF SOLN, NOT REQ'D TO CLOSE WINDOW PER METHOD
MJH 5-28-24

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Batch ID: AVIO 500
Sequence No.: 23
Sample ID: SEQ-CCV@ 23J0975
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 200

Autosampler Location: 5
Date Collected: 5/27/2024 4:17:59 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

RR MJH 5-28-24

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	613114.5	96.8	%	0.20	96.8	%	0.20	0.21%
Y axial	2565171.6	94.8	%	0.79	94.8	%	0.79	0.84%
Ag 328.068†	102574.6	2.285	mg/L	0.0271	2.285	mg/L	0.0271	1.18%
QC value within limits for Ag 328.068 Recovery = 91.40%								
Al 396.153†	250080.8	9.967	mg/L	0.0564	9.967	mg/L	0.0564	0.57%
QC value within limits for Al 396.153 Recovery = 99.67%								
As 188.979†	7621.1	4.925	mg/L	0.0501	4.925	mg/L	0.0501	1.02%
QC value within limits for As 188.979 Recovery = 98.50%								
B 208.889†	39854.3	4.696	mg/L	0.0411	4.696	mg/L	0.0411	0.87%
QC value within limits for B 208.889 Recovery = 93.92%								
Ba 233.527†	144516.8	5.007	mg/L	0.0549	5.007	mg/L	0.0549	1.10%
QC value within limits for Ba 233.527 Recovery = 100.15%								
Be 313.107†	9954204.5	5.049	mg/L	0.0171	5.049	mg/L	0.0171	0.34%
QC value within limits for Be 313.107 Recovery = 100.98%								
Ca 317.933†	250184.7	9.944	mg/L	0.0532	9.944	mg/L	0.0532	0.54%
QC value within limits for Ca 317.933 Recovery = 99.44%								
Cd 228.802†	131548.4	4.907	mg/L	0.0450	4.907	mg/L	0.0450	0.92%
QC value within limits for Cd 228.802 Recovery = 98.15%								
Co 228.616†	117580.3	5.073	mg/L	0.0469	5.073	mg/L	0.0469	0.92%
QC value within limits for Co 228.616 Recovery = 101.46%								
Cr 267.716†	267675.3	5.006	mg/L	0.0499	5.006	mg/L	0.0499	1.00%
QC value within limits for Cr 267.716 Recovery = 100.11%								
Cu 327.393†	426724.5	5.005	mg/L	0.0388	5.005	mg/L	0.0388	0.78%
QC value within limits for Cu 327.393 Recovery = 100.11%								
Fe 238.204†	107235.7	5.221	mg/L	0.0331	5.221	mg/L	0.0331	0.63%
QC value within limits for Fe 238.204 Recovery = 104.42%								
K 766.490†	176270.0	12.30	mg/L	0.174	12.30	mg/L	0.174	1.41%
QC value greater than the upper limit for K 766.490 Recovery = 122.98%								
Mg 285.213†	562997.4	10.31	mg/L	0.058	10.31	mg/L	0.058	0.56%
QC value within limits for Mg 285.213 Recovery = 103.13%								
Mn 257.610†	585238.9	5.117	mg/L	0.0319	5.117	mg/L	0.0319	0.62%
QC value within limits for Mn 257.610 Recovery = 102.35%								
Mo 202.031†	94369.1	5.041	mg/L	0.0480	5.041	mg/L	0.0480	0.95%

QC value within limits for Mo 202.031 Recovery = 100.83%

Na 589.592†	356819.4	10.74 mg/L	0.016	10.74 mg/L	0.016	0.15%
QC value within limits for Na 589.592 Recovery = 107.43%						
Ni 231.604†	190555.3	5.052 mg/L	0.0403	5.052 mg/L	0.0403	0.80%
QC value within limits for Ni 231.604 Recovery = 101.03%						
Pb 220.353†	25080.4	4.746 mg/L	0.0341	4.746 mg/L	0.0341	0.72%
QC value within limits for Pb 220.353 Recovery = 94.92%						
Sb 206.836†	15316.9	5.009 mg/L	0.0571	5.009 mg/L	0.0571	1.14%
QC value within limits for Sb 206.836 Recovery = 100.18%						
Se 196.026†	8438.2	4.816 mg/L	0.0574	4.816 mg/L	0.0574	1.19%
QC value within limits for Se 196.026 Recovery = 96.32%						
Sn 189.927†	28517.5	5.006 mg/L	0.0474	5.006 mg/L	0.0474	0.95%
QC value within limits for Sn 189.927 Recovery = 100.12%						
Ti 337.279†	497620.1	4.991 mg/L	0.0208	4.991 mg/L	0.0208	0.42%
QC value within limits for Ti 337.279 Recovery = 99.82%						
Tl 351.924†	6194.6	2.599 mg/L	0.0176	2.599 mg/L	0.0176	0.68%
QC value within limits for Tl 351.924 Recovery = 103.98%						
V 290.880†	449252.7	5.026 mg/L	0.0442	5.026 mg/L	0.0442	0.88%
QC value within limits for V 290.880 Recovery = 100.51%						
Zn 206.200†	198059.6	5.030 mg/L	0.0525	5.030 mg/L	0.0525	1.04%
QC value within limits for Zn 206.200 Recovery = 100.59%						
Zr 343.823†	1079454.6	5.257 mg/L	0.0455	5.257 mg/L	0.0455	0.87%
QC value within limits for Zr 343.823 Recovery = 105.14%						

QC Failed. Retry.

RR MJH 5-28-24

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Batch ID: AVIO 500
Sequence No.: 24
Sample ID: SEQ-CCV@ 23J0975
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 200

Autosampler Location: 5
Date Collected: 5/27/2024 4:20:32 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y radial	614536.7	97.0	%	0.57	97.0	%	0.57	0.59%
Y axial	2551749.0	94.3	%	0.69	94.3	%	0.69	0.73%
Ag 328.068†	102843.2	2.291	mg/L	0.0078	2.291	mg/L	0.0078	0.34%
QC value within limits for Ag 328.068 Recovery = 91.65%								
Al 396.153†	245573.4	9.780	mg/L	0.2670	9.780	mg/L	0.2670	2.73%
QC value within limits for Al 396.153 Recovery = 97.80%								
As 188.979†	7617.6	4.922	mg/L	0.0408	4.922	mg/L	0.0408	0.83%
QC value within limits for As 188.979 Recovery = 98.45%								
B 208.889†	39950.5	4.707	mg/L	0.0283	4.707	mg/L	0.0283	0.60%
QC value within limits for B 208.889 Recovery = 94.14%								
Ba 233.527†	143716.4	4.980	mg/L	0.0402	4.980	mg/L	0.0402	0.81%
QC value within limits for Ba 233.527 Recovery = 99.59%								
Be 313.107†	9921725.6	5.033	mg/L	0.0252	5.033	mg/L	0.0252	0.50%
QC value within limits for Be 313.107 Recovery = 100.65%								
Ca 317.933†	248615.8	9.881	mg/L	0.0523	9.881	mg/L	0.0523	0.53%
QC value within limits for Ca 317.933 Recovery = 98.81%								
Cd 228.802†	131864.3	4.920	mg/L	0.0240	4.920	mg/L	0.0240	0.49%
QC value within limits for Cd 228.802 Recovery = 98.39%								
Co 228.616†	117974.9	5.090	mg/L	0.0248	5.090	mg/L	0.0248	0.49%
QC value within limits for Co 228.616 Recovery = 101.80%								
Cr 267.716†	268561.9	5.022	mg/L	0.0282	5.022	mg/L	0.0282	0.56%
QC value within limits for Cr 267.716 Recovery = 100.44%								
Cu 327.393†	426989.6	5.009	mg/L	0.0284	5.009	mg/L	0.0284	0.57%
QC value within limits for Cu 327.393 Recovery = 100.17%								
Fe 238.204†	106241.7	5.173	mg/L	0.0298	5.173	mg/L	0.0298	0.58%
QC value within limits for Fe 238.204 Recovery = 103.46%								
K 766.490†	171364.8	11.96	mg/L	0.496	11.96	mg/L	0.496	4.15%
QC value greater than the upper limit for K 766.490 Recovery = 119.56%								
Mg 285.213†	559261.0	10.24	mg/L	0.094	10.24	mg/L	0.094	0.92%
QC value within limits for Mg 285.213 Recovery = 102.44%								
Mn 257.610†	580981.0	5.080	mg/L	0.0319	5.080	mg/L	0.0319	0.63%
QC value within limits for Mn 257.610 Recovery = 101.60%								

Mo 202.031†	94685.6	5.058 mg/L	0.0261	5.058 mg/L	0.0261	0.52%
QC value within limits for Mo 202.031 Recovery = 101.17%						
Na 589.592†	353749.7	10.65 mg/L	0.228	10.65 mg/L	0.228	2.14%
QC value within limits for Na 589.592 Recovery = 106.51%						
Ni 231.604†	191248.5	5.070 mg/L	0.0246	5.070 mg/L	0.0246	0.49%
QC value within limits for Ni 231.604 Recovery = 101.40%						
Pb 220.353†	25178.9	4.765 mg/L	0.0398	4.765 mg/L	0.0398	0.84%
QC value within limits for Pb 220.353 Recovery = 95.30%						
Sb 206.836†	15288.9	5.000 mg/L	0.0323	5.000 mg/L	0.0323	0.65%
QC value within limits for Sb 206.836 Recovery = 99.99%						
Se 196.026†	8497.0	4.850 mg/L	0.0556	4.850 mg/L	0.0556	1.15%
QC value within limits for Se 196.026 Recovery = 96.99%						
Sn 189.927†	28499.2	5.003 mg/L	0.0388	5.003 mg/L	0.0388	0.78%
QC value within limits for Sn 189.927 Recovery = 100.06%						
Ti 337.279†	496754.8	4.982 mg/L	0.0230	4.982 mg/L	0.0230	0.46%
QC value within limits for Ti 337.279 Recovery = 99.65%						
Tl 351.924†	6181.2	2.594 mg/L	0.0296	2.594 mg/L	0.0296	1.14%
QC value within limits for Tl 351.924 Recovery = 103.76%						
V 290.880†	450594.1	5.041 mg/L	0.0271	5.041 mg/L	0.0271	0.54%
QC value within limits for V 290.880 Recovery = 100.81%						
Zn 206.200†	199387.5	5.063 mg/L	0.0277	5.063 mg/L	0.0277	0.55%
QC value within limits for Zn 206.200 Recovery = 101.26%						
Zr 343.823†	1080077.8	5.260 mg/L	0.0261	5.260 mg/L	0.0261	0.50%
QC value within limits for Zr 343.823 Recovery = 105.20%						

QC Failed. Continue with analysis.

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Batch ID: AVIO 500
Sequence No.: 25 **Autosampler Location: 1**
Sample ID: SEQ-CCB@ 23J0970 **Date Collected: 5/27/2024 4:26:26 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 200

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	622661.5	98.3	%	0.29	98.3	%	0.29	0.30%
Y axial	2645490.7	97.7	%	0.21	97.7	%	0.21	0.21%
Ag 328.068†	257.9	0.0058	mg/L	0.00063	0.0058	mg/L	0.00063	10.92%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	-20.1	-0.0009	mg/L	0.00242	-0.0009	mg/L	0.00242	270.80%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	-0.5	-0.0003	mg/L	0.00297	-0.0003	mg/L	0.00297	864.77%
QC value within limits for As 188.979 Recovery = Not calculated								
B 208.889†	24.1	0.0030	mg/L	0.00088	0.0030	mg/L	0.00088	29.70%
QC value within limits for B 208.889 Recovery = Not calculated								
Ba 233.527†	2.4	0.0001	mg/L	0.00011	0.0001	mg/L	0.00011	136.93%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-430.1	-0.0002	mg/L	0.00001	-0.0002	mg/L	0.00001	2.47%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	-151.0	-0.0060	mg/L	0.00032	-0.0060	mg/L	0.00032	5.30%
QC value within limits for Ca 317.933 Recovery = Not calculated								
Cd 228.802†	-9.6	-0.0004	mg/L	0.00013	-0.0004	mg/L	0.00013	36.32%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	-22.5	-0.0010	mg/L	0.00017	-0.0010	mg/L	0.00017	17.23%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	15.9	0.0003	mg/L	0.00018	0.0003	mg/L	0.00018	61.00%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	210.4	0.0025	mg/L	0.00031	0.0025	mg/L	0.00031	12.62%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 238.204†	22.3	0.0011	mg/L	0.00068	0.0011	mg/L	0.00068	64.25%
QC value within limits for Fe 238.204 Recovery = Not calculated								
K 766.490†	52.9	0.0037	mg/L	0.00211	0.0037	mg/L	0.00211	57.35%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213†	55.8	0.0010	mg/L	0.00020	0.0010	mg/L	0.00020	19.29%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610†	-0.6	-0.0000	mg/L	0.00001	-0.0000	mg/L	0.00001	252.32%

QC value within limits for Mn 257.610 Recovery = Not calculated

Mo 202.031†	18.1	0.0010 mg/L	0.00014	0.0010 mg/L	0.00014	14.64%

QC value within limits for Mo 202.031 Recovery = Not calculated

Na 589.592†	-5342.3	-0.1609 mg/L	0.00649	-0.1609 mg/L	0.00649	4.04%

QC value within limits for Na 589.592 Recovery = Not calculated

Ni 231.604†	-13.5	-0.0004 mg/L	0.00022	-0.0004 mg/L	0.00022	60.59%

QC value within limits for Ni 231.604 Recovery = Not calculated

Pb 220.353†	19.7	0.0037 mg/L	0.00101	0.0037 mg/L	0.00101	27.18%

QC value within limits for Pb 220.353 Recovery = Not calculated

Sb 206.836†	2.0	0.0007 mg/L	0.00070	0.0007 mg/L	0.00070	105.69%

QC value within limits for Sb 206.836 Recovery = Not calculated

Se 196.026†	6.1	0.0035 mg/L	0.00271	0.0035 mg/L	0.00271	77.41%

QC value within limits for Se 196.026 Recovery = Not calculated

Sn 189.927†	9.7	0.0017 mg/L	0.00071	0.0017 mg/L	0.00071	41.56%

QC value within limits for Sn 189.927 Recovery = Not calculated

Ti 337.279†	50.1	0.0005 mg/L	0.00014	0.0005 mg/L	0.00014	27.70%

QC value within limits for Ti 337.279 Recovery = Not calculated

Tl 351.924†	4.7	0.0019 mg/L	0.00460	0.0019 mg/L	0.00460	240.02%

QC value within limits for Tl 351.924 Recovery = Not calculated

V 290.880†	-23.7	-0.0003 mg/L	0.00078	-0.0003 mg/L	0.00078	295.09%

QC value within limits for V 290.880 Recovery = Not calculated

Zn 206.200†	176.1	0.0045 mg/L	0.00016	0.0045 mg/L	0.00016	3.65%

QC value within limits for Zn 206.200 Recovery = Not calculated

Zr 343.823†	103.3	0.0005 mg/L	0.00012	0.0005 mg/L	0.00012	23.13%

All analyte(s) passed QC.
User canceled analysis.

Batch ID: AVIO 500
Sequence No.: 1 **Autosampler Location: 8**
Sample ID: SEQ-ICV@ 23K0257 **Date Collected: 5/27/2024 4:51:13 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample):
User canceled analysis.

Method Loaded
Method Name: ICP4_012224 **Method Last Saved: 5/27/2024 4:51:52 PM**
IEC File: 111223 IEC.iec **MSF File:**
Method Description: Soils and Waters

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Al 396.153	Lin Thru 0	Peak Area	Radial	Y radial	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Y axial	Yes
B 208.889	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ba 233.527	Lin Thru 0	Peak Area	Radial	Y axial	No
Be 313.107	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	Y radial	No
Cd 228.802	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Cu 327.393	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Fe 238.204	Lin Thru 0	Peak Area	Radial	Y radial	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	Y radial	No
Mg 285.213	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mn 257.610	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	Y axial	No
Na 589.592	Lin Thru 0	Peak Area	Radial	Y radial	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Ti 337.279	Lin Thru 0	Peak Area	Radial	Y radial	Yes
Tl 351.924	Lin Thru 0	Peak Area	Axial	Y axial	Yes
V 290.880	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Y radial	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Y axial	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 206.200	Lin Thru 0	Peak Area	Axial	Y axial	Yes
Zr 343.823	Lin Thru 0	Peak Area	Axial	Y axial	Yes

Batch ID: AVIO 500
Sequence No.: 27 **Autosampler Location: 31**
Sample ID: B374725-BLK1 **Date Collected: 5/27/2024 4:53:07 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample):

Mean Data: B374725-BLK1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	558814.9	88.2	%	0.52	88.2	%	0.52	0.59%
Y axial	2702413.8	99.8	%	0.40	99.8	%	0.40	0.40%
Ag 328.068†	-148.9	-0.0033	mg/L	0.00038	-0.0033	mg/L	0.00038	11.40%
Al 396.153†	244.2	0.0100	mg/L	0.00318	0.0100	mg/L	0.00318	31.90%
As 188.979†	-8.1	-0.0053	mg/L	0.00167	-0.0053	mg/L	0.00167	31.62%
B 208.889†	36.8	0.0045	mg/L	0.00065	0.0045	mg/L	0.00065	14.34%
Ba 233.527†	8.6	0.0003	mg/L	0.00025	0.0003	mg/L	0.00025	84.85%
Be 313.107†	367.0	0.0002	mg/L	0.00003	0.0002	mg/L	0.00003	18.66%
Ca 317.933†	2718.6	0.1081	mg/L	0.00038	0.1081	mg/L	0.00038	0.35%

Cd 228.802†	0.2	0.0002 mg/L	0.00003	0.0002 mg/L	0.00003	17.11%
Co 228.616†	-29.6	-0.0013 mg/L	0.00033	-0.0013 mg/L	0.00033	25.72%
Cr 267.716†	62.3	0.0012 mg/L	0.00025	0.0012 mg/L	0.00025	21.42%
Cu 327.393†	4785.8	0.0558 mg/L	0.00831	0.0558 mg/L	0.00831	14.89%
Fe 238.204†	440.4	0.0212 mg/L	0.00037	0.0212 mg/L	0.00037	1.76%
K 766.490†	600.6	0.0419 mg/L	0.00374	0.0419 mg/L	0.00374	8.93%
Mg 285.213†	599.7	0.0110 mg/L	0.00014	0.0110 mg/L	0.00014	1.31%
Mn 257.610†	323.1	0.0028 mg/L	0.00011	0.0028 mg/L	0.00011	3.87%
Mo 202.031†	27.9	0.0015 mg/L	0.00038	0.0015 mg/L	0.00038	25.28%
Na 589.592†	-5254.7	-0.1582 mg/L	0.01321	-0.1582 mg/L	0.01321	8.35%
Ni 231.604†	-6.3	-0.0002 mg/L	0.00006	-0.0002 mg/L	0.00006	37.74%
Pb 220.353†	10.7	0.0020 mg/L	0.00082	0.0020 mg/L	0.00082	41.55%
Sb 206.836†	17.1	0.0056 mg/L	0.00048	0.0056 mg/L	0.00048	8.58%
Se 196.026†	15.8	0.0090 mg/L	0.00165	0.0090 mg/L	0.00165	18.31%
Sn 189.927†	225.1	0.0395 mg/L	0.00048	0.0395 mg/L	0.00048	1.22%
Ti 337.279†	122.4	0.0012 mg/L	0.00013	0.0012 mg/L	0.00013	10.54%
Tl 351.924†	-4.8	-0.0019 mg/L	0.00270	-0.0019 mg/L	0.00270	140.28%
V 290.880†	2.6	0.0000 mg/L	0.00028	0.0000 mg/L	0.00028	943.03%
Zn 206.200†	645.4	0.0163 mg/L	0.00110	0.0163 mg/L	0.00110	6.71%
Zr 343.823†	151.3	0.0007 mg/L	0.00010	0.0007 mg/L	0.00010	14.17%

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Batch ID: AVIO 500
Sequence No.: 28 **Autosampler Location: 32**
Sample ID: B374725-BS1 **Date Collected: 5/27/2024 5:01:01 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 200

Mean Data: B374725-BS1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	577176.5	91.1	%	0.31	91.1	%	0.31	0.34%
Y axial	2559648.0	94.6	%	0.18	94.6	%	0.18	0.19%
Ag 328.068†	38189.1	0.8614	mg/L	0.00759	0.8614	mg/L	0.00759	0.88%
Al 396.153†	1716332.2	70.84	mg/L	0.466	70.84	mg/L	0.466	0.66%
As 188.979†	4770.8	3.105	mg/L	0.0151	3.105	mg/L	0.0151	0.49%
B 208.889†	18541.0	2.231	mg/L	0.0090	2.231	mg/L	0.0090	0.40%
Ba 233.527†	95080.1	3.294	mg/L	0.0161	3.294	mg/L	0.0161	0.49%
Be 313.107†	3640955.2	1.849	mg/L	0.0118	1.849	mg/L	0.0118	0.64%
Ca 317.933†	1356166.5	53.90	mg/L	0.105	53.90	mg/L	0.105	0.20%
Cd 228.802†	58674.9	2.159	mg/L	0.0054	2.159	mg/L	0.0054	0.25%
Co 228.616†	19956.3	0.8565	mg/L	0.00362	0.8565	mg/L	0.00362	0.42%
Cr 267.716†	103465.3	1.933	mg/L	0.0057	1.933	mg/L	0.0057	0.29%
Cu 327.393†	193794.7	2.264	mg/L	0.0096	2.264	mg/L	0.0096	0.42%
Fe 238.204†	1425377.6	68.59	mg/L	0.078	68.59	mg/L	0.078	0.11%
K 766.490†	226901.5	15.83	mg/L	0.490	15.83	mg/L	0.490	3.10%
Mg 285.213†	972640.1	17.88	mg/L	0.036	17.88	mg/L	0.036	0.20%
Mn 257.610†	810893.4	7.092	mg/L	0.0053	7.092	mg/L	0.0053	0.08%
Mo 202.031†	28571.5	1.526	mg/L	0.0069	1.526	mg/L	0.0069	0.45%
Na 589.592†	180247.9	5.427	mg/L	0.0589	5.427	mg/L	0.0589	1.09%
Ni 231.604†	121256.7	3.219	mg/L	0.0092	3.219	mg/L	0.0092	0.29%
Pb 220.353†	4745.0	0.9026	mg/L	0.00427	0.9026	mg/L	0.00427	0.47%
Sb 206.836†	3264.5	1.063	mg/L	0.0014	1.063	mg/L	0.0014	0.13%
Se 196.026†	2929.7	1.712	mg/L	0.0089	1.712	mg/L	0.0089	0.52%
Sn 189.927†	4606.0	0.8132	mg/L	0.00329	0.8132	mg/L	0.00329	0.40%
Ti 337.279†	376751.2	3.780	mg/L	0.0106	3.780	mg/L	0.0106	0.28%
Tl 351.924†	5259.3	2.152	mg/L	0.0087	2.152	mg/L	0.0087	0.40%
V 290.880†	101474.2	1.132	mg/L	0.0043	1.132	mg/L	0.0043	0.38%
Zn 206.200†	67630.8	1.718	mg/L	0.0057	1.718	mg/L	0.0057	0.33%
Zr 343.823†	16766.0	0.0787	mg/L	0.00041	0.0787	mg/L	0.00041	0.52%

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Batch ID: AVIO 500
Sequence No.: 29 **Autosampler Location: 33**
Sample ID: B374725-BSD1 **Date Collected: 5/27/2024 5:07:57 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**

Dilution: **Sample Prep Vol:**
Wash Time (before sample): 200

Mean Data: B374725-BSD1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	573404.5	90.5	%	0.83	90.5	%	0.83	0.92%
Y axial	2546399.4	94.1	%	0.72	94.1	%	0.72	0.77%
Ag 328.068†	38621.3	0.8710	mg/L	0.00744	0.8710	mg/L	0.00744	0.85%
Al 396.153†	1690526.4	69.77	mg/L	2.305	69.77	mg/L	2.305	3.30%
As 188.979†	4699.5	3.059	mg/L	0.0311	3.059	mg/L	0.0311	1.02%
B 208.889†	18426.0	2.219	mg/L	0.0222	2.219	mg/L	0.0222	1.00%
Ba 233.527†	88242.0	3.057	mg/L	0.0472	3.057	mg/L	0.0472	1.54%
Be 313.107†	3561565.7	1.809	mg/L	0.0146	1.809	mg/L	0.0146	0.81%
Ca 317.933†	1347733.8	53.57	mg/L	0.075	53.57	mg/L	0.075	0.14%
Cd 228.802†	57129.8	2.101	mg/L	0.0175	2.101	mg/L	0.0175	0.83%
Co 228.616†	19675.7	0.8442	mg/L	0.00766	0.8442	mg/L	0.00766	0.91%
Cr 267.716†	100421.0	1.877	mg/L	0.0116	1.877	mg/L	0.0116	0.62%
Cu 327.393†	186021.7	2.173	mg/L	0.0198	2.173	mg/L	0.0198	0.91%
Fe 238.204†	1417558.8	68.21	mg/L	0.370	68.21	mg/L	0.370	0.54%
K 766.490†	223022.6	15.56	mg/L	0.473	15.56	mg/L	0.473	3.04%
Mg 285.213†	972287.5	17.87	mg/L	0.083	17.87	mg/L	0.083	0.47%
Mn 257.610†	687858.6	6.016	mg/L	0.0326	6.016	mg/L	0.0326	0.54%
Mo 202.031†	27770.1	1.484	mg/L	0.0122	1.484	mg/L	0.0122	0.82%
Na 589.592†	179359.0	5.400	mg/L	0.0846	5.400	mg/L	0.0846	1.57%
Ni 231.604†	119021.2	3.160	mg/L	0.0228	3.160	mg/L	0.0228	0.72%
Pb 220.353†	4750.1	0.9035	mg/L	0.00655	0.9035	mg/L	0.00655	0.73%
Sb 206.836†	3212.2	1.046	mg/L	0.0101	1.046	mg/L	0.0101	0.97%
Se 196.026†	2872.5	1.679	mg/L	0.0189	1.679	mg/L	0.0189	1.12%
Sn 189.927†	4604.0	0.8128	mg/L	0.00657	0.8128	mg/L	0.00657	0.81%
Ti 337.279†	373723.9	3.750	mg/L	0.0041	3.750	mg/L	0.0041	0.11%
Tl 351.924†	4979.7	2.038	mg/L	0.0227	2.038	mg/L	0.0227	1.11%
V 290.880†	97410.8	1.087	mg/L	0.0087	1.087	mg/L	0.0087	0.80%
Zn 206.200†	67163.4	1.706	mg/L	0.0092	1.706	mg/L	0.0092	0.54%
Zr 343.823†	16322.1	0.0766	mg/L	0.00075	0.0766	mg/L	0.00075	0.97%

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Batch ID: AVIO 500
Sequence No.: 30 **Autosampler Location: 34**
Sample ID: B374725-MS1 **Date Collected: 5/27/2024 5:14:54 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 200

Mean Data: B374725-MS1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	586490.8	92.6	%	0.26	92.6	%	0.26	0.28%
Y axial	2448275.1	90.5	%	0.40	90.5	%	0.40	0.44%
Ag 328.068†	22066.4	0.5141	mg/L	0.00402	0.5141	mg/L	0.00402	0.78%
Al 396.153†	11345685.1	468.8	mg/L	4.18	468.8	mg/L	4.18	0.89%
Saturated within auto integration window (code 4)								
As 188.979†	901.0	0.6521	mg/L	0.01149	0.6521	mg/L	0.01149	1.76%
B 208.889†	6604.7	0.7987	mg/L	0.00331	0.7987	mg/L	0.00331	0.41%
Ba 233.527†	79010.0	2.738	mg/L	0.0122	2.738	mg/L	0.0122	0.45%
Be 313.107†	1046595.8	0.5292	mg/L	0.00182	0.5292	mg/L	0.00182	0.34%
Ca 317.933†	5116510.1	203.4	mg/L	1.52	203.4	mg/L	1.52	0.75%
Cd 228.802†	13248.6	0.4932	mg/L	0.00244	0.4932	mg/L	0.00244	0.49%
Co 228.616†	16721.6	0.7202	mg/L	0.00347	0.7202	mg/L	0.00347	0.48%
Cr 267.716†	47759.3	0.9009	mg/L	0.00182	0.9009	mg/L	0.00182	0.20%
Cu 327.393†	159339.3	1.864	mg/L	0.0037	1.864	mg/L	0.0037	0.20%
Fe 238.204†	11715979.9	563.7	mg/L	3.41	563.7	mg/L	3.41	0.60%
K 766.490†	503323.4	35.12	mg/L	0.954	35.12	mg/L	0.954	2.72%
Mg 285.213†	6067566.5	111.7	mg/L	0.71	111.7	mg/L	0.71	0.64%
Mn 257.610†	1728434.2	15.13	mg/L	0.102	15.13	mg/L	0.102	0.68%
Mo 202.031†	8900.4	0.4755	mg/L	0.00238	0.4755	mg/L	0.00238	0.50%
Na 589.592†	197272.8	5.940	mg/L	0.0400	5.940	mg/L	0.0400	0.67%

Ni 231.604†	37514.9	1.021 mg/L	0.0027	1.021 mg/L	0.0027	0.27%
Pb 220.353†	7046.5	1.360 mg/L	0.0052	1.360 mg/L	0.0052	0.38%
Sb 206.836†	148.7	0.0450 mg/L	0.00467	0.0450 mg/L	0.00467	10.37%
Se 196.026†	392.5	0.5776 mg/L	0.00476	0.5776 mg/L	0.00476	0.82%
Sn 189.927†	2490.1	0.4403 mg/L	0.00240	0.4403 mg/L	0.00240	0.55%
Ti 337.279†	247716.3	2.486 mg/L	0.0073	2.486 mg/L	0.0073	0.29%
Tl 351.924†	1024.9	0.5223 mg/L	0.00592	0.5223 mg/L	0.00592	1.13%
V 290.880†	91235.5	0.9956 mg/L	0.00128	0.9956 mg/L	0.00128	0.13%
Zn 206.200†	116335.9	2.944 mg/L	0.0123	2.944 mg/L	0.0123	0.42%
Zr 343.823†	23481.2	0.0902 mg/L	0.00071	0.0902 mg/L	0.00071	0.78%

User canceled analysis.

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Batch ID: AVIO 500
Sequence No.: 1 **Autosampler Location: 8**
Sample ID: SEQ-ICV@ 23K0257 **Date Collected: 5/27/2024 5:22:28 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample):
User canceled analysis.

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Batch ID: AVIO 500
Sequence No.: 31 **Autosampler Location: 35**
Sample ID: B374725-MSD1 **Date Collected: 5/27/2024 5:23:25 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample):

Mean Data: B374725-MSD1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	590800.0	93.3	%	0.36	93.3	%	0.36	0.39%
Y axial	2478008.7	91.6	%	0.71	91.6	%	0.71	0.77%
Ag 328.068†	21519.3	0.4979	mg/L	0.00533	0.4979	mg/L	0.00533	1.07%
Al 396.153†	10995318.2	454.4	mg/L	5.19	454.4	mg/L	5.19	1.14%
As 188.979†	865.7	0.6274	mg/L	0.00620	0.6274	mg/L	0.00620	0.99%
B 208.889†	6399.7	0.7732	mg/L	0.00599	0.7732	mg/L	0.00599	0.77%
Ba 233.527†	76108.7	2.637	mg/L	0.0261	2.637	mg/L	0.0261	0.99%
Be 313.107†	1033273.7	0.5224	mg/L	0.00197	0.5224	mg/L	0.00197	0.38%
Ca 317.933†	2340677.6	93.03	mg/L	0.514	93.03	mg/L	0.514	0.55%
Cd 228.802†	13017.8	0.4850	mg/L	0.00394	0.4850	mg/L	0.00394	0.81%
Co 228.616†	16685.1	0.7186	mg/L	0.00473	0.7186	mg/L	0.00473	0.66%
Cr 267.716†	48100.4	0.9078	mg/L	0.00394	0.9078	mg/L	0.00394	0.43%
Cu 327.393†	154174.4	1.801	mg/L	0.0054	1.801	mg/L	0.0054	0.30%
Fe 238.204†	11416605.8	549.3	mg/L	2.65	549.3	mg/L	2.65	0.48%
K 766.490†	471645.6	32.91	mg/L	0.713	32.91	mg/L	0.713	2.17%
Mg 285.213†	5912396.1	108.8	mg/L	0.89	108.8	mg/L	0.89	0.82%
Mn 257.610†	1512853.5	13.24	mg/L	0.067	13.24	mg/L	0.067	0.51%
Mo 202.031†	8858.3	0.4732	mg/L	0.00325	0.4732	mg/L	0.00325	0.69%
Na 589.592†	187084.2	5.633	mg/L	0.0673	5.633	mg/L	0.0673	1.20%
Ni 231.604†	36810.7	1.002	mg/L	0.0019	1.002	mg/L	0.0019	0.19%
Pb 220.353†	6854.3	1.323	mg/L	0.0076	1.323	mg/L	0.0076	0.58%
Sb 206.836†	146.4	0.0440	mg/L	0.00235	0.0440	mg/L	0.00235	5.35%
Se 196.026†	374.4	0.5593	mg/L	0.00397	0.5593	mg/L	0.00397	0.71%
Sn 189.927†	2458.7	0.4347	mg/L	0.00427	0.4347	mg/L	0.00427	0.98%
Ti 337.279†	240141.5	2.410	mg/L	0.0070	2.410	mg/L	0.0070	0.29%
Tl 351.924†	1003.2	0.5108	mg/L	0.00241	0.5108	mg/L	0.00241	0.47%
V 290.880†	90328.8	0.9861	mg/L	0.00428	0.9861	mg/L	0.00428	0.43%
Zn 206.200†	115545.7	2.924	mg/L	0.0171	2.924	mg/L	0.0171	0.58%
Zr 343.823†	23136.4	0.0892	mg/L	0.00099	0.0892	mg/L	0.00099	1.11%

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Batch ID: AVIO 500
Sequence No.: 32 **Autosampler Location: 36**
Sample ID: 24E1437-01 **Date Collected: 5/27/2024 5:30:30 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 200

Mean Data: 24E1437-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	588607.3	92.9	%	0.75	92.9	%	0.75	0.81%
Y axial	2462865.7	91.0	%	1.20	91.0	%	1.20	1.32%
Ag 328.068†	-705.8	-0.0008	mg/L	0.00018	-0.0008	mg/L	0.00018	23.67%

Al 396.153†	10296107.1	425.5	mg/L	6.92	425.5	mg/L	6.92	1.63%
As 188.979†	171.7	0.1770	mg/L	0.00376	0.1770	mg/L	0.00376	2.13%
B 208.889†	540.4	0.0662	mg/L	0.00158	0.0662	mg/L	0.00158	2.39%
Ba 233.527†	62364.4	2.161	mg/L	0.0121	2.161	mg/L	0.0121	0.56%
Be 313.107†	38707.5	0.0180	mg/L	0.00014	0.0180	mg/L	0.00014	0.80%
Ca 317.933†	3061306.9	121.7	mg/L	1.25	121.7	mg/L	1.25	1.02%
Cd 228.802†	62.6	0.0008	mg/L	0.00036	0.0008	mg/L	0.00036	45.20%
Co 228.616†	6004.0	0.2579	mg/L	0.00372	0.2579	mg/L	0.00372	1.44%
Cr 267.716†	21529.5	0.4101	mg/L	0.00585	0.4101	mg/L	0.00585	1.43%
Cu 327.393†	61840.0	0.7249	mg/L	0.00196	0.7249	mg/L	0.00196	0.27%
Fe 238.204†	11087683.2	533.4	mg/L	5.19	533.4	mg/L	5.19	0.97%
K 766.490†	406667.2	28.37	mg/L	0.340	28.37	mg/L	0.340	1.20%
Mg 285.213†	5429190.8	99.94	mg/L	1.187	99.94	mg/L	1.187	1.19%
Mn 257.610†	1567928.3	13.72	mg/L	0.166	13.72	mg/L	0.166	1.21%
Mo 202.031†	434.5	0.0232	mg/L	0.00033	0.0232	mg/L	0.00033	1.41%
Na 589.592†	40577.4	1.222	mg/L	0.0109	1.222	mg/L	0.0109	0.90%
Ni 231.604†	19451.9	0.5410	mg/L	0.00795	0.5410	mg/L	0.00795	1.47%
Pb 220.353†	4703.3	0.9136	mg/L	0.01373	0.9136	mg/L	0.01373	1.50%
Sb 206.836†	-60.1	-0.0237	mg/L	0.00094	-0.0237	mg/L	0.00094	3.95%
Se 196.026†	-382.7	0.1166	mg/L	0.00822	0.1166	mg/L	0.00822	7.05%
Sn 189.927†	393.0	0.0719	mg/L	0.00251	0.0719	mg/L	0.00251	3.49%
Ti 337.279†	194238.1	1.949	mg/L	0.0052	1.949	mg/L	0.0052	0.27%
Tl 351.924†	-238.2	0.0027	mg/L	0.00471	0.0027	mg/L	0.00471	174.76%
V 290.880†	45684.4	0.4868	mg/L	0.00205	0.4868	mg/L	0.00205	0.42%
Zn 206.200†	75305.8	1.905	mg/L	0.0062	1.905	mg/L	0.0062	0.33%
Zr 343.823†	22551.9	0.0870	mg/L	0.00148	0.0870	mg/L	0.00148	1.70%

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Batch ID: AVIO 500
Sequence No.: 33 **Autosampler Location: 37**
Sample ID: 24E1437-02 **Date Collected: 5/27/2024 5:37:35 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 200

Mean Data: 24E1437-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	567464.7	89.6	%	0.18	89.6	%	0.18	0.20%
Y axial	2350179.4	86.8	%	0.24	86.8	%	0.24	0.28%
Ag 328.068†	-758.6	0.0039	mg/L	0.00050	0.0039	mg/L	0.00050	13.04%
Al 396.153†	6677090.8	275.9	mg/L	3.88	275.9	mg/L	3.88	1.41%
As 188.979†	134.2	0.1361	mg/L	0.00380	0.1361	mg/L	0.00380	2.79%
B 208.889†	970.7	0.1198	mg/L	0.00129	0.1198	mg/L	0.00129	1.08%
Ba 233.527†	57810.8	2.003	mg/L	0.0131	2.003	mg/L	0.0131	0.65%
Be 313.107†	24500.3	0.0112	mg/L	0.00004	0.0112	mg/L	0.00004	0.35%
Ca 317.933†	10311716.3	409.8	mg/L	0.87	409.8	mg/L	0.87	0.21%
Cd 228.802†	184.3	0.0058	mg/L	0.00031	0.0058	mg/L	0.00031	5.36%
Co 228.616†	4135.0	0.1763	mg/L	0.00126	0.1763	mg/L	0.00126	0.71%
Cr 267.716†	17377.7	0.3265	mg/L	0.00308	0.3265	mg/L	0.00308	0.94%
Cu 327.393†	68950.6	0.8133	mg/L	0.00616	0.8133	mg/L	0.00616	0.76%
Fe 238.204†	8214787.6	395.2	mg/L	0.80	395.2	mg/L	0.80	0.20%
K 766.490†	613300.4	42.79	mg/L	2.089	42.79	mg/L	2.089	4.88%
Mg 285.213†	6881854.2	126.4	mg/L	0.34	126.4	mg/L	0.34	0.27%
Mn 257.610†	2180668.5	19.08	mg/L	0.137	19.08	mg/L	0.137	0.72%
Mo 202.031†	517.4	0.0276	mg/L	0.00039	0.0276	mg/L	0.00039	1.42%
Na 589.592†	37522.8	1.130	mg/L	0.0128	1.130	mg/L	0.0128	1.14%
Ni 231.604†	13307.4	0.3704	mg/L	0.00227	0.3704	mg/L	0.00227	0.61%
Pb 220.353†	4491.5	0.8621	mg/L	0.00221	0.8621	mg/L	0.00221	0.26%
Sb 206.836†	-37.7	-0.0148	mg/L	0.00157	-0.0148	mg/L	0.00157	10.61%
Se 196.026†	-247.9	0.1004	mg/L	0.00217	0.1004	mg/L	0.00217	2.16%
Sn 189.927†	254.2	0.0481	mg/L	0.00087	0.0481	mg/L	0.00087	1.82%
Ti 337.279†	229718.5	2.305	mg/L	0.0099	2.305	mg/L	0.0099	0.43%
Tl 351.924†	-132.8	0.0188	mg/L	0.00027	0.0188	mg/L	0.00027	1.41%
V 290.880†	32628.4	0.3524	mg/L	0.00268	0.3524	mg/L	0.00268	0.76%
Zn 206.200†	100032.6	2.530	mg/L	0.0136	2.530	mg/L	0.0136	0.54%
Zr 343.823†	26319.2	0.1113	mg/L	0.00121	0.1113	mg/L	0.00121	1.09%

Batch ID: AVIO 500
Sequence No.: 34 **Autosampler Location: 38**
Sample ID: 24E1437-03 **Date Collected: 5/27/2024 5:44:42 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 200

Mean Data: 24E1437-03

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	564357.3	89.1	%	0.71	89.1	%	0.71	0.79%
Y axial	2363589.3	87.3	%	0.81	87.3	%	0.81	0.92%
Ag 328.068†	-730.0	0.0027	mg/L	0.00024	0.0027	mg/L	0.00024	9.05%
Al 396.153†	5870951.8	242.6	mg/L	0.89	242.6	mg/L	0.89	0.37%
As 188.979†	118.3	0.1221	mg/L	0.00336	0.1221	mg/L	0.00336	2.75%
B 208.889†	1078.1	0.1329	mg/L	0.00129	0.1329	mg/L	0.00129	0.97%
Ba 233.527†	48916.3	1.695	mg/L	0.0112	1.695	mg/L	0.0112	0.66%
Be 313.107†	22565.6	0.0103	mg/L	0.00016	0.0103	mg/L	0.00016	1.55%
Ca 317.933†	9056494.4	360.0	mg/L	4.86	360.0	mg/L	4.86	1.35%
Cd 228.802†	152.5	0.0047	mg/L	0.00014	0.0047	mg/L	0.00014	2.86%
Co 228.616†	3597.1	0.1529	mg/L	0.00170	0.1529	mg/L	0.00170	1.11%
Cr 267.716†	16488.6	0.3115	mg/L	0.00249	0.3115	mg/L	0.00249	0.80%
Cu 327.393†	60332.0	0.7118	mg/L	0.00930	0.7118	mg/L	0.00930	1.31%
Fe 238.204†	7596924.5	365.5	mg/L	4.53	365.5	mg/L	4.53	1.24%
K 766.490†	678183.0	47.32	mg/L	1.289	47.32	mg/L	1.289	2.72%
Mg 285.213†	8013600.3	147.2	mg/L	1.50	147.2	mg/L	1.50	1.02%
Mn 257.610†	1573866.6	13.77	mg/L	0.078	13.77	mg/L	0.078	0.57%
Mo 202.031†	619.0	0.0331	mg/L	0.00068	0.0331	mg/L	0.00068	2.04%
Na 589.592†	46029.8	1.386	mg/L	0.0417	1.386	mg/L	0.0417	3.01%
Ni 231.604†	12129.2	0.3383	mg/L	0.00281	0.3383	mg/L	0.00281	0.83%
Pb 220.353†	3689.6	0.7088	mg/L	0.00612	0.7088	mg/L	0.00612	0.86%
Sb 206.836†	-34.5	-0.0135	mg/L	0.00372	-0.0135	mg/L	0.00372	27.46%
Se 196.026†	-236.0	0.0918	mg/L	0.00404	0.0918	mg/L	0.00404	4.41%
Sn 189.927†	224.2	0.0427	mg/L	0.00148	0.0427	mg/L	0.00148	3.47%
Ti 337.279†	218641.3	2.194	mg/L	0.0179	2.194	mg/L	0.0179	0.82%
Tl 351.924†	-127.8	0.0151	mg/L	0.00316	0.0151	mg/L	0.00316	20.93%
V 290.880†	30506.6	0.3327	mg/L	0.00421	0.3327	mg/L	0.00421	1.26%
Zn 206.200†	76631.6	1.938	mg/L	0.0171	1.938	mg/L	0.0171	0.88%
Zr 343.823†	23024.1	0.0965	mg/L	0.00156	0.0965	mg/L	0.00156	1.61%

Batch ID: AVIO 500
Sequence No.: 35 **Autosampler Location: 39**
Sample ID: 24E1437-04 **Date Collected: 5/27/2024 5:51:51 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 200

Mean Data: 24E1437-04

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	580183.6	91.6	%	0.25	91.6	%	0.25	0.27%
Y axial	2469084.1	91.2	%	0.54	91.2	%	0.54	0.59%
Ag 328.068†	-524.1	0.0026	mg/L	0.00050	0.0026	mg/L	0.00050	19.39%
Al 396.153†	8019969.4	331.4	mg/L	2.30	331.4	mg/L	2.30	0.69%
As 188.979†	174.3	0.1700	mg/L	0.00084	0.1700	mg/L	0.00084	0.49%
B 208.889†	798.0	0.0983	mg/L	0.00080	0.0983	mg/L	0.00080	0.81%
Ba 233.527†	58616.8	2.031	mg/L	0.0217	2.031	mg/L	0.0217	1.07%
Be 313.107†	34413.0	0.0156	mg/L	0.00011	0.0156	mg/L	0.00011	0.72%
Ca 317.933†	3141410.2	124.9	mg/L	0.03	124.9	mg/L	0.03	0.02%
Cd 228.802†	167.6	0.0045	mg/L	0.00029	0.0045	mg/L	0.00029	6.51%
Co 228.616†	4491.2	0.1927	mg/L	0.00071	0.1927	mg/L	0.00071	0.37%
Cr 267.716†	18570.5	0.3536	mg/L	0.00194	0.3536	mg/L	0.00194	0.55%
Cu 327.393†	57726.3	0.6769	mg/L	0.00572	0.6769	mg/L	0.00572	0.85%
Fe 238.204†	9613360.3	462.5	mg/L	0.99	462.5	mg/L	0.99	0.21%

K 766.490†	469586.8	32.76	mg/L	0.701	32.76	mg/L	0.701	2.14%
Mg 285.213†	5394659.9	99.26	mg/L	0.205	99.26	mg/L	0.205	0.21%
Mn 257.610†	1437418.4	12.58	mg/L	0.020	12.58	mg/L	0.020	0.16%
Mo 202.031†	496.1	0.0265	mg/L	0.00137	0.0265	mg/L	0.00137	5.16%
Na 589.592†	40450.0	1.218	mg/L	0.0289	1.218	mg/L	0.0289	2.37%
Ni 231.604†	15415.7	0.4305	mg/L	0.00076	0.4305	mg/L	0.00076	0.18%
Pb 220.353†	13489.2	2.566	mg/L	0.0143	2.566	mg/L	0.0143	0.56%
Sb 206.836†	-60.0	-0.0227	mg/L	0.00086	-0.0227	mg/L	0.00086	3.79%
Se 196.026†	-305.3	0.1158	mg/L	0.00670	0.1158	mg/L	0.00670	5.79%
Sn 189.927†	5774.0	1.015	mg/L	0.0066	1.015	mg/L	0.0066	0.65%
Ti 337.279†	181946.9	1.826	mg/L	0.0058	1.826	mg/L	0.0058	0.32%
Tl 351.924†	-195.1	0.0064	mg/L	0.00449	0.0064	mg/L	0.00449	69.83%
V 290.880†	51536.3	0.5568	mg/L	0.00229	0.5568	mg/L	0.00229	0.41%
Zn 206.200†	111055.5	2.808	mg/L	0.0153	2.808	mg/L	0.0153	0.54%
Zr 343.823†	18971.1	0.0726	mg/L	0.00068	0.0726	mg/L	0.00068	0.93%

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Batch ID: AVIO 500
Sequence No.: 36
Sample ID: 24E1437-05
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 200

Autosampler Location: 40
Date Collected: 5/27/2024 5:58:58 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 24E1437-05

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y radial	557199.3	88.0	%	0.57	88.0	%	0.57	0.65%
Y axial	2215561.1	81.9	%	0.60	81.9	%	0.60	0.73%
Ag 328.068†	-1323.0	0.0121	mg/L	0.00027	0.0121	mg/L	0.00027	2.19%
Al 396.153†	7891981.3	325.9	mg/L	5.76	325.9	mg/L	5.76	1.77%
As 188.979†	195.4	0.1828	mg/L	0.01168	0.1828	mg/L	0.01168	6.39%
B 208.889†	513.3	0.0600	mg/L	0.00108	0.0600	mg/L	0.00108	1.80%
Ba 233.527†	49136.8	1.703	mg/L	0.0143	1.703	mg/L	0.0143	0.84%
Be 313.107†	30557.0	0.0134	mg/L	0.00011	0.0134	mg/L	0.00011	0.83%
Ca 317.933†	23672780.3	940.9	mg/L	11.77	940.9	mg/L	11.77	1.25%
Cd 228.802†	156.9	0.0036	mg/L	0.00015	0.0036	mg/L	0.00015	4.09%
Co 228.616†	4328.7	0.1860	mg/L	0.00138	0.1860	mg/L	0.00138	0.74%
Cr 267.716†	16531.3	0.3126	mg/L	0.00107	0.3126	mg/L	0.00107	0.34%
Cu 327.393†	45158.8	0.5451	mg/L	0.00149	0.5451	mg/L	0.00149	0.27%
Fe 238.204†	9520801.1	458.1	mg/L	2.10	458.1	mg/L	2.10	0.46%
K 766.490†	420460.4	29.34	mg/L	0.841	29.34	mg/L	0.841	2.87%
Mg 285.213†	14184529.4	260.3	mg/L	3.14	260.3	mg/L	3.14	1.21%
Mn 257.610†	2130923.4	18.64	mg/L	0.085	18.64	mg/L	0.085	0.45%
Mo 202.031†	1369.0	0.0731	mg/L	0.00079	0.0731	mg/L	0.00079	1.08%
Na 589.592†	45389.7	1.367	mg/L	0.0266	1.367	mg/L	0.0266	1.95%
Ni 231.604†	14578.3	0.4074	mg/L	0.00145	0.4074	mg/L	0.00145	0.36%
Pb 220.353†	7508.1	1.435	mg/L	0.0029	1.435	mg/L	0.0029	0.20%
Sb 206.836†	-42.0	-0.0157	mg/L	0.00331	-0.0157	mg/L	0.00331	21.16%
Se 196.026†	-338.2	0.0898	mg/L	0.01288	0.0898	mg/L	0.01288	14.35%
Sn 189.927†	363.5	0.0660	mg/L	0.00158	0.0660	mg/L	0.00158	2.39%
Ti 337.279†	144508.7	1.450	mg/L	0.0103	1.450	mg/L	0.0103	0.71%
Tl 351.924†	-147.6	0.0259	mg/L	0.00081	0.0259	mg/L	0.00081	3.11%
V 290.880†	57854.6	0.6442	mg/L	0.00038	0.6442	mg/L	0.00038	0.06%
Zn 206.200†	73016.6	1.847	mg/L	0.0033	1.847	mg/L	0.0033	0.18%
Zr 343.823†	22744.0	0.0912	mg/L	0.00062	0.0912	mg/L	0.00062	0.69%

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Batch ID: AVIO 500
Sequence No.: 37
Sample ID: SEQ-CCV@ 23J0975
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 200

Autosampler Location: 5
Date Collected: 5/27/2024 6:06:04 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	634440.8	100	%	0.57	100	%	0.57	0.57%
Y axial	2589391.0	95.7	%	0.34	95.7	%	0.34	0.36%
Ag 328.068†	113840.2	2.537	mg/L	0.0181	2.537	mg/L	0.0181	0.71%
QC value within limits for Ag 328.068 Recovery = 101.47%								
Al 396.153†	226564.7	8.987	mg/L	0.0378	8.987	mg/L	0.0378	0.42%
QC value less than the lower limit for Al 396.153 Recovery = 89.87%								
As 188.979†	7784.8	5.030	mg/L	0.0196	5.030	mg/L	0.0196	0.39%
QC value within limits for As 188.979 Recovery = 100.61%								
B 208.889†	40669.0	4.791	mg/L	0.0225	4.791	mg/L	0.0225	0.47%
QC value within limits for B 208.889 Recovery = 95.82%								
Ba 233.527†	145417.7	5.039	mg/L	0.0501	5.039	mg/L	0.0501	0.99%
QC value within limits for Ba 233.527 Recovery = 100.77%								
Be 313.107†	9872169.4	5.007	mg/L	0.0240	5.007	mg/L	0.0240	0.48%
QC value within limits for Be 313.107 Recovery = 100.14%								
Ca 317.933†	247778.5	9.848	mg/L	0.0286	9.848	mg/L	0.0286	0.29%
QC value within limits for Ca 317.933 Recovery = 98.48%								
Cd 228.802†	134266.8	5.009	mg/L	0.0226	5.009	mg/L	0.0226	0.45%
QC value within limits for Cd 228.802 Recovery = 100.18%								
Co 228.616†	120532.2	5.201	mg/L	0.0159	5.201	mg/L	0.0159	0.31%
QC value within limits for Co 228.616 Recovery = 104.01%								
Cr 267.716†	273887.5	5.122	mg/L	0.0194	5.122	mg/L	0.0194	0.38%
QC value within limits for Cr 267.716 Recovery = 102.44%								
Cu 327.393†	428630.8	5.028	mg/L	0.0265	5.028	mg/L	0.0265	0.53%
QC value within limits for Cu 327.393 Recovery = 100.56%								
Fe 238.204†	105101.1	5.120	mg/L	0.0134	5.120	mg/L	0.0134	0.26%
QC value within limits for Fe 238.204 Recovery = 102.39%								
K 766.490†	153692.2	10.72	mg/L	0.163	10.72	mg/L	0.163	1.52%
QC value within limits for K 766.490 Recovery = 107.23%								
Mg 285.213†	543605.0	9.956	mg/L	0.0298	9.956	mg/L	0.0298	0.30%
QC value within limits for Mg 285.213 Recovery = 99.56%								
Mn 257.610†	573716.2	5.017	mg/L	0.0069	5.017	mg/L	0.0069	0.14%
QC value within limits for Mn 257.610 Recovery = 100.33%								
Mo 202.031†	96616.7	5.161	mg/L	0.0168	5.161	mg/L	0.0168	0.33%
QC value within limits for Mo 202.031 Recovery = 103.23%								
Na 589.592†	327809.5	9.870	mg/L	0.0284	9.870	mg/L	0.0284	0.29%
QC value within limits for Na 589.592 Recovery = 98.70%								
Ni 231.604†	194987.7	5.169	mg/L	0.0175	5.169	mg/L	0.0175	0.34%
QC value within limits for Ni 231.604 Recovery = 103.38%								
Pb 220.353†	25493.6	4.824	mg/L	0.0246	4.824	mg/L	0.0246	0.51%
QC value within limits for Pb 220.353 Recovery = 96.49%								
Sb 206.836†	15616.1	5.107	mg/L	0.0189	5.107	mg/L	0.0189	0.37%
QC value within limits for Sb 206.836 Recovery = 102.13%								
Se 196.026†	8503.2	4.853	mg/L	0.0270	4.853	mg/L	0.0270	0.56%
QC value within limits for Se 196.026 Recovery = 97.06%								
Sn 189.927†	29278.9	5.140	mg/L	0.0367	5.140	mg/L	0.0367	0.71%
QC value within limits for Sn 189.927 Recovery = 102.79%								
Ti 337.279†	497578.0	4.991	mg/L	0.0164	4.991	mg/L	0.0164	0.33%
QC value within limits for Ti 337.279 Recovery = 99.81%								
Tl 351.924†	6301.6	2.645	mg/L	0.0297	2.645	mg/L	0.0297	1.12%
QC value within limits for Tl 351.924 Recovery = 105.79%								
V 290.880†	458628.6	5.131	mg/L	0.0276	5.131	mg/L	0.0276	0.54%
QC value within limits for V 290.880 Recovery = 102.61%								
Zn 206.200†	204329.6	5.189	mg/L	0.0143	5.189	mg/L	0.0143	0.28%
QC value within limits for Zn 206.200 Recovery = 103.77%								
Zr 343.823†	1100721.2	5.361	mg/L	0.0313	5.361	mg/L	0.0313	0.58%
QC value within limits for Zr 343.823 Recovery = 107.21%								

QC Failed. Continue with analysis.

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Batch ID: AVIO 500
Sequence No.: 38
Sample ID: SEQ-CCB@ 23J0970
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 200

Autosampler Location: 1
Date Collected: 5/27/2024 6:12:07 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	638016.1	101	%	0.75	101	%	0.75	0.74%
Y axial	2708352.7	100	%	0.71	100	%	0.71	0.71%
Ag 328.068†	-129.8	-0.0029	mg/L	0.00023	-0.0029	mg/L	0.00023	7.98%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	-2.8	-0.0002	mg/L	0.00205	-0.0002	mg/L	0.00205	>999.9%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	1.8	0.0011	mg/L	0.00134	0.0011	mg/L	0.00134	118.41%
QC value within limits for As 188.979 Recovery = Not calculated								
B 208.889†	12.1	0.0015	mg/L	0.00036	0.0015	mg/L	0.00036	24.68%
QC value within limits for B 208.889 Recovery = Not calculated								
Ba 233.527†	6.5	0.0002	mg/L	0.00017	0.0002	mg/L	0.00017	74.22%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-1084.8	-0.0005	mg/L	0.00001	-0.0005	mg/L	0.00001	2.01%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	-53.9	-0.0021	mg/L	0.00121	-0.0021	mg/L	0.00121	56.48%
QC value within limits for Ca 317.933 Recovery = Not calculated								
Cd 228.802†	-7.7	-0.0003	mg/L	0.00013	-0.0003	mg/L	0.00013	38.69%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	-23.1	-0.0010	mg/L	0.00023	-0.0010	mg/L	0.00023	22.90%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	19.6	0.0004	mg/L	0.00010	0.0004	mg/L	0.00010	26.28%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	52.1	0.0006	mg/L	0.00040	0.0006	mg/L	0.00040	66.38%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 238.204†	112.9	0.0054	mg/L	0.00021	0.0054	mg/L	0.00021	3.80%
QC value within limits for Fe 238.204 Recovery = Not calculated								
K 766.490†	555.9	0.0388	mg/L	0.00094	0.0388	mg/L	0.00094	2.44%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213†	107.9	0.0020	mg/L	0.00011	0.0020	mg/L	0.00011	5.65%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610†	24.9	0.0002	mg/L	0.00001	0.0002	mg/L	0.00001	6.16%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	20.0	0.0011	mg/L	0.00023	0.0011	mg/L	0.00023	21.76%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592†	-6713.7	-0.2021	mg/L	0.00394	-0.2021	mg/L	0.00394	1.95%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604†	-3.5	-0.0001	mg/L	0.00026	-0.0001	mg/L	0.00026	288.54%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	10.1	0.0019	mg/L	0.00072	0.0019	mg/L	0.00072	37.56%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	2.0	0.0006	mg/L	0.00068	0.0006	mg/L	0.00068	105.70%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	7.4	0.0042	mg/L	0.00205	0.0042	mg/L	0.00205	48.77%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	5.7	0.0010	mg/L	0.00050	0.0010	mg/L	0.00050	50.22%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 337.279†	50.8	0.0005	mg/L	0.00024	0.0005	mg/L	0.00024	47.07%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 351.924†	4.2	0.0017	mg/L	0.00255	0.0017	mg/L	0.00255	148.17%
QC value within limits for Tl 351.924 Recovery = Not calculated								
V 290.880†	-139.2	-0.0016	mg/L	0.00045	-0.0016	mg/L	0.00045	29.02%
QC value within limits for V 290.880 Recovery = Not calculated								
Zn 206.200†	104.7	0.0027	mg/L	0.00011	0.0027	mg/L	0.00011	3.98%
QC value within limits for Zn 206.200 Recovery = Not calculated								
Zr 343.823†	111.6	0.0005	mg/L	0.00013	0.0005	mg/L	0.00013	24.59%

All analyte(s) passed QC.

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Batch ID: AVIO 500
Sequence No.: 39 **Autosampler Location: 41**
Sample ID: 24E1437-06 **Date Collected: 5/27/2024 6:18:18 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 100

Mean Data: 24E1437-06

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	575367.6	90.8	%	0.20	90.8	%	0.20	0.22%
Y axial	2435303.3	90.0	%	0.34	90.0	%	0.34	0.38%
Ag 328.068†	-607.3	0.0001	mg/L	0.00061	0.0001	mg/L	0.00061	458.67%
Al 396.153†	9428054.4	389.6	mg/L	2.25	389.6	mg/L	2.25	0.58%
As 188.979†	134.2	0.1504	mg/L	0.00544	0.1504	mg/L	0.00544	3.61%
B 208.889†	566.2	0.0694	mg/L	0.00154	0.0694	mg/L	0.00154	2.22%
Ba 233.527†	59045.0	2.046	mg/L	0.0144	2.046	mg/L	0.0144	0.70%
Be 313.107†	37393.8	0.0174	mg/L	0.00019	0.0174	mg/L	0.00019	1.10%
Ca 317.933†	2310771.8	91.84	mg/L	0.598	91.84	mg/L	0.598	0.65%
Cd 228.802†	72.6	0.0018	mg/L	0.00072	0.0018	mg/L	0.00072	40.13%
Co 228.616†	5785.7	0.2482	mg/L	0.00053	0.2482	mg/L	0.00053	0.21%
Cr 267.716†	21166.6	0.4037	mg/L	0.00009	0.4037	mg/L	0.00009	0.02%
Cu 327.393†	66672.2	0.7808	mg/L	0.00360	0.7808	mg/L	0.00360	0.46%
Fe 238.204†	10702957.7	514.9	mg/L	1.61	514.9	mg/L	1.61	0.31%
K 766.490†	354433.9	24.73	mg/L	0.311	24.73	mg/L	0.311	1.26%
Mg 285.213†	5157837.8	94.96	mg/L	0.176	94.96	mg/L	0.176	0.19%
Mn 257.610†	1366412.9	11.96	mg/L	0.074	11.96	mg/L	0.074	0.62%
Mo 202.031†	444.4	0.0237	mg/L	0.00011	0.0237	mg/L	0.00011	0.48%
Na 589.592†	31646.4	0.9528	mg/L	0.01598	0.9528	mg/L	0.01598	1.68%
Ni 231.604†	19935.3	0.5531	mg/L	0.00160	0.5531	mg/L	0.00160	0.29%
Pb 220.353†	4903.3	0.9485	mg/L	0.00587	0.9485	mg/L	0.00587	0.62%
Sb 206.836†	-66.0	-0.0255	mg/L	0.00093	-0.0255	mg/L	0.00093	3.63%
Se 196.026†	-353.3	0.1226	mg/L	0.00228	0.1226	mg/L	0.00228	1.86%
Sn 189.927†	373.8	0.0686	mg/L	0.00069	0.0686	mg/L	0.00069	1.01%
Ti 337.279†	197506.2	1.982	mg/L	0.0048	1.982	mg/L	0.0048	0.24%
Tl 351.924†	-228.8	0.0030	mg/L	0.00477	0.0030	mg/L	0.00477	160.96%
V 290.880†	44385.7	0.4730	mg/L	0.00063	0.4730	mg/L	0.00063	0.13%
Zn 206.200†	78284.9	1.980	mg/L	0.0066	1.980	mg/L	0.0066	0.33%
Zr 343.823†	22985.2	0.0899	mg/L	0.00001	0.0899	mg/L	0.00001	0.01%

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Batch ID: AVIO 500
Sequence No.: 40 **Autosampler Location: 42**
Sample ID: 24E1437-07 **Date Collected: 5/27/2024 6:25:25 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 200

Mean Data: 24E1437-07

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	577093.9	91.1	%	0.36	91.1	%	0.36	0.39%
Y axial	2423109.5	89.5	%	0.24	89.5	%	0.24	0.26%
Ag 328.068†	-591.9	0.0020	mg/L	0.00034	0.0020	mg/L	0.00034	16.79%
Al 396.153†	10223187.4	422.5	mg/L	6.23	422.5	mg/L	6.23	1.47%
Saturated within auto integration window (code 4)								
As 188.979†	187.9	0.1959	mg/L	0.00578	0.1959	mg/L	0.00578	2.95%
B 208.889†	1123.9	0.1380	mg/L	0.00106	0.1380	mg/L	0.00106	0.77%
Ba 233.527†	102679.3	3.558	mg/L	0.0367	3.558	mg/L	0.0367	1.03%
Be 313.107†	55208.4	0.0261	mg/L	0.00013	0.0261	mg/L	0.00013	0.51%
Ca 317.933†	2416831.1	96.06	mg/L	0.336	96.06	mg/L	0.336	0.35%
Cd 228.802†	69.2	0.0014	mg/L	0.00043	0.0014	mg/L	0.00043	30.28%
Co 228.616†	8121.3	0.3490	mg/L	0.00205	0.3490	mg/L	0.00205	0.59%
Cr 267.716†	29889.7	0.5664	mg/L	0.00149	0.5664	mg/L	0.00149	0.26%
Cu 327.393†	161759.4	1.890	mg/L	0.0067	1.890	mg/L	0.0067	0.35%
Fe 238.204†	12509764.5	601.9	mg/L	5.50	601.9	mg/L	5.50	0.91%
K 766.490†	666402.3	46.49	mg/L	0.587	46.49	mg/L	0.587	1.26%
Mg 285.213†	6426091.3	118.3	mg/L	0.96	118.3	mg/L	0.96	0.81%
Mn 257.610†	2025517.5	17.73	mg/L	0.067	17.73	mg/L	0.067	0.38%
Mo 202.031†	828.4	0.0443	mg/L	0.00054	0.0443	mg/L	0.00054	1.21%
Na 589.592†	49954.8	1.504	mg/L	0.0159	1.504	mg/L	0.0159	1.06%
Ni 231.604†	41059.6	1.117	mg/L	0.0048	1.117	mg/L	0.0048	0.43%
Pb 220.353†	21225.8	4.030	mg/L	0.0262	4.030	mg/L	0.0262	0.65%
Sb 206.836†	-90.7	-0.0352	mg/L	0.00157	-0.0352	mg/L	0.00157	4.46%
Se 196.026†	-438.1	0.1264	mg/L	0.00405	0.1264	mg/L	0.00405	3.21%

Sn 189.927†	1203.7	0.2153 mg/L	0.00205	0.2153 mg/L	0.00205	0.95%
Ti 337.279†	274544.8	2.755 mg/L	0.0103	2.755 mg/L	0.0103	0.37%
Tl 351.924†	-279.0	-0.0020 mg/L	0.00180	-0.0020 mg/L	0.00180	89.02%
V 290.880†	52207.4	0.5572 mg/L	0.00232	0.5572 mg/L	0.00232	0.42%
Zn 206.200†	174264.7	4.407 mg/L	0.0259	4.407 mg/L	0.0259	0.59%
Zr 343.823†	28917.9	0.1151 mg/L	0.00054	0.1151 mg/L	0.00054	0.47%

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Batch ID: AVIO 500
Sequence No.: 41 **Autosampler Location: 43**
Sample ID: 24E1437-08 **Date Collected: 5/27/2024 6:32:27 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 200

Mean Data: 24E1437-08

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	574891.9	90.7	%	1.13	90.7	%	1.13	1.24%
Y axial	2375530.1	87.8	%	0.51	87.8	%	0.51	0.58%
Ag 328.068†	-330.2	0.0134	mg/L	0.00025	0.0134	mg/L	0.00025	1.91%
Al 396.153†	10740758.1	443.9	mg/L	9.44	443.9	mg/L	9.44	2.13%
As 188.979†	224.3	0.2242	mg/L	0.00680	0.2242	mg/L	0.00680	3.03%
B 208.889†	742.6	0.0912	mg/L	0.00088	0.0912	mg/L	0.00088	0.96%
Ba 233.527†	98214.0	3.403	mg/L	0.0324	3.403	mg/L	0.0324	0.95%
Be 313.107†	47024.6	0.0219	mg/L	0.00011	0.0219	mg/L	0.00011	0.52%
Ca 317.933†	6327734.7	251.5	mg/L	4.51	251.5	mg/L	4.51	1.79%
Cd 228.802†	75.6	0.0009	mg/L	0.00018	0.0009	mg/L	0.00018	20.24%
Co 228.616†	8057.8	0.3450	mg/L	0.00182	0.3450	mg/L	0.00182	0.53%
Cr 267.716†	27897.9	0.5282	mg/L	0.00135	0.5282	mg/L	0.00135	0.26%
Cu 327.393†	381856.3	4.459	mg/L	0.0185	4.459	mg/L	0.0185	0.42%
Fe 238.204†	13236194.5	636.8	mg/L	9.92	636.8	mg/L	9.92	1.56%
K 766.490†	662085.8	46.19	mg/L	0.329	46.19	mg/L	0.329	0.71%
Mg 285.213†	8134867.6	149.6	mg/L	2.37	149.6	mg/L	2.37	1.59%
Mn 257.610†	2502193.3	21.90	mg/L	0.365	21.90	mg/L	0.365	1.67%
Mo 202.031†	556.1	0.0297	mg/L	0.00059	0.0297	mg/L	0.00059	1.98%
Na 589.592†	55209.2	1.662	mg/L	0.0057	1.662	mg/L	0.0057	0.35%
Ni 231.604†	51591.7	1.398	mg/L	0.0026	1.398	mg/L	0.0026	0.18%
Pb 220.353†	14954.2	2.845	mg/L	0.0076	2.845	mg/L	0.0076	0.27%
Sb 206.836†	-42.2	-0.0188	mg/L	0.00323	-0.0188	mg/L	0.00323	17.23%
Se 196.026†	-483.6	0.1200	mg/L	0.00858	0.1200	mg/L	0.00858	7.15%
Sn 189.927†	3262.5	0.5764	mg/L	0.00230	0.5764	mg/L	0.00230	0.40%
Ti 337.279†	295906.9	2.969	mg/L	0.0098	2.969	mg/L	0.0098	0.33%
Tl 351.924†	-310.1	-0.0079	mg/L	0.00242	-0.0079	mg/L	0.00242	30.71%
V 290.880†	54835.2	0.5876	mg/L	0.00146	0.5876	mg/L	0.00146	0.25%
Zn 206.200†	124257.4	3.143	mg/L	0.0152	3.143	mg/L	0.0152	0.48%
Zr 343.823†	36053.6	0.1484	mg/L	0.00044	0.1484	mg/L	0.00044	0.30%

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Batch ID: AVIO 500
Sequence No.: 42 **Autosampler Location: 44**
Sample ID: 24E1437-09 **Date Collected: 5/27/2024 6:39:33 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 200

Mean Data: 24E1437-09

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	564977.1	89.2	%	0.45	89.2	%	0.45	0.50%
Y axial	2351693.3	86.9	%	1.19	86.9	%	1.19	1.37%
Ag 328.068†	-921.2	0.0031	mg/L	0.00012	0.0031	mg/L	0.00012	3.79%
Al 396.153†	11382771.8	470.4	mg/L	1.69	470.4	mg/L	1.69	0.36%
Saturated within auto integration window (code 4)								
As 188.979†	235.9	0.2368	mg/L	0.00537	0.2368	mg/L	0.00537	2.27%
B 208.889†	775.0	0.0953	mg/L	0.00259	0.0953	mg/L	0.00259	2.72%

Ba 233.527†	85041.0	2.947	mg/L	0.0319	2.947	mg/L	0.0319	1.08%
Be 313.107†	44064.6	0.0204	mg/L	0.00027	0.0204	mg/L	0.00027	1.35%
Ca 317.933†	7717246.4	306.7	mg/L	2.13	306.7	mg/L	2.13	0.69%
Cd 228.802†	148.5	0.0034	mg/L	0.00036	0.0034	mg/L	0.00036	10.63%
Co 228.616†	7597.7	0.3264	mg/L	0.00502	0.3264	mg/L	0.00502	1.54%
Cr 267.716†	27307.9	0.5196	mg/L	0.00628	0.5196	mg/L	0.00628	1.21%
Cu 327.393†	90341.0	1.061	mg/L	0.0072	1.061	mg/L	0.0072	0.68%
Fe 238.204†	14137885.6	680.2	mg/L	3.90	680.2	mg/L	3.90	0.57%
K 766.490†	728248.9	50.81	mg/L	0.574	50.81	mg/L	0.574	1.13%
Mg 285.213†	8542598.2	157.1	mg/L	0.86	157.1	mg/L	0.86	0.55%
Mn 257.610†	2156712.3	18.88	mg/L	0.144	18.88	mg/L	0.144	0.76%
Mo 202.031†	531.2	0.0284	mg/L	0.00050	0.0284	mg/L	0.00050	1.76%
Na 589.592†	50272.5	1.514	mg/L	0.0525	1.514	mg/L	0.0525	3.47%
Ni 231.604†	26733.5	0.7408	mg/L	0.01021	0.7408	mg/L	0.01021	1.38%
Pb 220.353†	10380.5	1.985	mg/L	0.0270	1.985	mg/L	0.0270	1.36%
Sb 206.836†	-102.8	-0.0388	mg/L	0.00496	-0.0388	mg/L	0.00496	12.77%
Se 196.026†	-516.3	0.1315	mg/L	0.00677	0.1315	mg/L	0.00677	5.15%
Sn 189.927†	495.0	0.0907	mg/L	0.00095	0.0907	mg/L	0.00095	1.04%
Ti 337.279†	250549.1	2.514	mg/L	0.0124	2.514	mg/L	0.0124	0.49%
Tl 351.924†	-325.5	-0.0046	mg/L	0.00167	-0.0046	mg/L	0.00167	36.10%
V 290.880†	55139.6	0.5890	mg/L	0.00369	0.5890	mg/L	0.00369	0.63%
Zn 206.200†	109009.8	2.757	mg/L	0.0142	2.757	mg/L	0.0142	0.51%
Zr 343.823†	38831.1	0.1600	mg/L	0.00127	0.1600	mg/L	0.00127	0.79%

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Batch ID: AVIO 500
Sequence No.: 43 **Autosampler Location: 45**
Sample ID: 24E1437-10 **Date Collected: 5/27/2024 6:46:36 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 200

Mean Data: 24E1437-10

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	566005.7	89.3	%	0.11	89.3	%	0.11	0.12%
Y axial	2325586.7	85.9	%	0.25	85.9	%	0.25	0.29%
Ag 328.068†	-967.7	0.0007	mg/L	0.00042	0.0007	mg/L	0.00042	56.68%
Al 396.153†	11417735.0	471.8	mg/L	2.54	471.8	mg/L	2.54	0.54%
As 188.979†	184.9	0.2084	mg/L	0.00678	0.2084	mg/L	0.00678	3.25%
B 208.889†	696.3	0.0855	mg/L	0.00234	0.0855	mg/L	0.00234	2.74%
Ba 233.527†	85553.2	2.964	mg/L	0.0283	2.964	mg/L	0.0283	0.95%
Be 313.107†	44259.9	0.0204	mg/L	0.00015	0.0204	mg/L	0.00015	0.75%
Ca 317.933†	6431616.9	255.6	mg/L	1.12	255.6	mg/L	1.12	0.44%
Cd 228.802†	126.6	0.0035	mg/L	0.00024	0.0035	mg/L	0.00024	6.90%
Co 228.616†	7609.5	0.3272	mg/L	0.00163	0.3272	mg/L	0.00163	0.50%
Cr 267.716†	28734.1	0.5454	mg/L	0.00162	0.5454	mg/L	0.00162	0.30%
Cu 327.393†	85642.7	1.006	mg/L	0.0020	1.006	mg/L	0.0020	0.19%
Fe 238.204†	14982218.9	720.8	mg/L	1.51	720.8	mg/L	1.51	0.21%
K 766.490†	670416.9	46.77	mg/L	1.901	46.77	mg/L	1.901	4.06%
Mg 285.213†	9331006.7	171.6	mg/L	0.34	171.6	mg/L	0.34	0.20%
Mn 257.610†	2637418.9	23.08	mg/L	0.184	23.08	mg/L	0.184	0.80%
Mo 202.031†	508.8	0.0272	mg/L	0.00018	0.0272	mg/L	0.00018	0.65%
Na 589.592†	44378.1	1.336	mg/L	0.0286	1.336	mg/L	0.0286	2.14%
Ni 231.604†	27724.0	0.7687	mg/L	0.00130	0.7687	mg/L	0.00130	0.17%
Pb 220.353†	8436.5	1.617	mg/L	0.0067	1.617	mg/L	0.0067	0.41%
Sb 206.836†	-109.9	-0.0417	mg/L	0.00256	-0.0417	mg/L	0.00256	6.13%
Se 196.026†	-549.6	0.1358	mg/L	0.00623	0.1358	mg/L	0.00623	4.59%
Sn 189.927†	396.8	0.0732	mg/L	0.00134	0.0732	mg/L	0.00134	1.83%
Ti 337.279†	237989.8	2.388	mg/L	0.0108	2.388	mg/L	0.0108	0.45%
Tl 351.924†	-349.3	-0.0060	mg/L	0.00469	-0.0060	mg/L	0.00469	78.61%
V 290.880†	57779.7	0.6174	mg/L	0.00168	0.6174	mg/L	0.00168	0.27%
Zn 206.200†	107738.8	2.725	mg/L	0.0030	2.725	mg/L	0.0030	0.11%
Zr 343.823†	42423.7	0.1758	mg/L	0.00033	0.1758	mg/L	0.00033	0.19%

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Batch ID: AVIO 500
Sequence No.: 44 **Autosampler Location: 46**

Sample ID: 24E1437-11
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 200

Date Collected: 5/27/2024 6:53:43 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 24E1437-11

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	552338.4	87.2	%	0.29	87.2	%	0.29	0.34%
Y axial	2320803.2	85.7	%	0.20	85.7	%	0.20	0.23%
Ag 328.068†	-850.4	0.0046	mg/L	0.00064	0.0046	mg/L	0.00064	13.87%
Al 396.153†	10794686.2	446.1	mg/L	8.73	446.1	mg/L	8.73	1.96%
As 188.979†	238.6	0.2457	mg/L	0.00602	0.2457	mg/L	0.00602	2.45%
B 208.889†	1483.9	0.1820	mg/L	0.00066	0.1820	mg/L	0.00066	0.36%
Ba 233.527†	235660.9	8.165	mg/L	0.0207	8.165	mg/L	0.0207	0.25%
Be 313.107†	63757.6	0.0304	mg/L	0.00008	0.0304	mg/L	0.00008	0.27%
Ca 317.933†	6139974.4	244.0	mg/L	2.11	244.0	mg/L	2.11	0.86%
Cd 228.802†	982.6	0.0370	mg/L	0.00053	0.0370	mg/L	0.00053	1.43%
Co 228.616†	9204.9	0.4018	mg/L	0.00138	0.4018	mg/L	0.00138	0.34%
Cr 267.716†	145393.5	2.730	mg/L	0.0024	2.730	mg/L	0.0024	0.09%
Cu 327.393†	232543.3	2.718	mg/L	0.0196	2.718	mg/L	0.0196	0.72%
Fe 238.204†	16056340.5	772.5	mg/L	5.82	772.5	mg/L	5.82	0.75%
K 766.490†	798391.2	55.70	mg/L	2.032	55.70	mg/L	2.032	3.65%
Mg 285.213†	7051630.7	129.8	mg/L	1.03	129.8	mg/L	1.03	0.79%
Mn 257.610†	1929099.6	16.89	mg/L	0.148	16.89	mg/L	0.148	0.88%
Mo 202.031†	1173.6	0.0627	mg/L	0.00051	0.0627	mg/L	0.00051	0.82%
Na 589.592†	60288.1	1.815	mg/L	0.0167	1.815	mg/L	0.0167	0.92%
Ni 231.604†	55016.2	1.495	mg/L	0.0054	1.495	mg/L	0.0054	0.36%
Pb 220.353†	345909.8	65.34	mg/L	0.136	65.34	mg/L	0.136	0.21%
Sb 206.836†	-1.4	-0.0430	mg/L	0.00557	-0.0430	mg/L	0.00557	12.93%
Se 196.026†	-584.5	0.1537	mg/L	0.00457	0.1537	mg/L	0.00457	2.98%
Sn 189.927†	2081.9	0.3692	mg/L	0.00122	0.3692	mg/L	0.00122	0.33%
Ti 337.279†	276760.8	2.777	mg/L	0.0077	2.777	mg/L	0.0077	0.28%
Tl 351.924†	-353.0	0.0023	mg/L	0.00462	0.0023	mg/L	0.00462	203.90%
V 290.880†	55619.7	0.5856	mg/L	0.00119	0.5856	mg/L	0.00119	0.20%
Zn 206.200†	525934.1	13.31	mg/L	0.051	13.31	mg/L	0.051	0.38%
Zr 343.823†	35130.9	0.1381	mg/L	0.00051	0.1381	mg/L	0.00051	0.37%

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Batch ID: AVIO 500
Sequence No.: 45
Sample ID: 24E1437-12
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 200

Autosampler Location: 47
Date Collected: 5/27/2024 7:00:50 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 24E1437-12

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	560230.0	88.4	%	0.06	88.4	%	0.06	0.07%
Y axial	2318090.3	85.6	%	0.40	85.6	%	0.40	0.47%
Ag 328.068†	-1065.1	0.0035	mg/L	0.00087	0.0035	mg/L	0.00087	24.81%
Al 396.153†	12730771.7	526.1	mg/L	6.00	526.1	mg/L	6.00	1.14%
As 188.979†	245.3	0.2571	mg/L	0.01074	0.2571	mg/L	0.01074	4.18%
B 208.889†	1054.2	0.1296	mg/L	0.00158	0.1296	mg/L	0.00158	1.22%
Ba 233.527†	301234.0	10.44	mg/L	0.137	10.44	mg/L	0.137	1.31%
Be 313.107†	65315.8	0.0308	mg/L	0.00022	0.0308	mg/L	0.00022	0.71%
Ca 317.933†	8186629.3	325.4	mg/L	1.27	325.4	mg/L	1.27	0.39%
Cd 228.802†	2603.8	0.0999	mg/L	0.00093	0.0999	mg/L	0.00093	0.93%
Co 228.616†	10220.0	0.4482	mg/L	0.00282	0.4482	mg/L	0.00282	0.63%
Cr 267.716†	203292.7	3.811	mg/L	0.0207	3.811	mg/L	0.0207	0.54%
Cu 327.393†	159332.8	1.867	mg/L	0.0120	1.867	mg/L	0.0120	0.64%
Fe 238.204†	17511891.7	842.5	mg/L	4.89	842.5	mg/L	4.89	0.58%
K 766.490†	895269.4	62.46	mg/L	0.758	62.46	mg/L	0.758	1.21%
Mg 285.213†	9162238.7	168.6	mg/L	1.01	168.6	mg/L	1.01	0.60%
Mn 257.610†	2678530.4	23.44	mg/L	0.093	23.44	mg/L	0.093	0.40%

Mo 202.031†	726.9	0.0388 mg/L	0.00037	0.0388 mg/L	0.00037	0.96%
Na 589.592†	72292.5	2.177 mg/L	0.0800	2.177 mg/L	0.0800	3.68%
Ni 231.604†	42383.6	1.162 mg/L	0.0067	1.162 mg/L	0.0067	0.58%
Pb 220.353†	440193.6	83.15 mg/L	0.510	83.15 mg/L	0.510	0.61%
Sb 206.836†	10.7	-0.0576 mg/L	0.00242	-0.0576 mg/L	0.00242	4.20%
Se 196.026†	-681.3	0.1391 mg/L	0.00864	0.1391 mg/L	0.00864	6.21%
Sn 189.927†	907.5	0.1642 mg/L	0.00334	0.1642 mg/L	0.00334	2.03%
Ti 337.279†	327904.6	3.290 mg/L	0.0086	3.290 mg/L	0.0086	0.26%
Tl 351.924†	-407.1	-0.0059 mg/L	0.00277	-0.0059 mg/L	0.00277	46.65%
V 290.880†	65898.4	0.7000 mg/L	0.00368	0.7000 mg/L	0.00368	0.53%
Zn 206.200†	828122.6	20.95 mg/L	0.106	20.95 mg/L	0.106	0.50%
Zr 343.823†	47897.5	0.1972 mg/L	0.00096	0.1972 mg/L	0.00096	0.49%

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Batch ID: AVIO 500
Sequence No.: 46 **Autosampler Location: 48**
Sample ID: 24E1437-13 **Date Collected: 5/27/2024 7:07:57 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 200

Mean Data: 24E1437-13

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	560733.0	88.5	%	0.46	88.5	%	0.46	0.52%
Y axial	2360330.3	87.2	%	1.10	87.2	%	1.10	1.26%
Ag 328.068†	-622.0	0.0006	mg/L	0.00025	0.0006	mg/L	0.00025	43.72%
Al 396.153†	9194776.8	380.0	mg/L	3.75	380.0	mg/L	3.75	0.99%
As 188.979†	160.2	0.1736	mg/L	0.00425	0.1736	mg/L	0.00425	2.45%
B 208.889†	926.8	0.1135	mg/L	0.00194	0.1135	mg/L	0.00194	1.71%
Ba 233.527†	85889.2	2.976	mg/L	0.0212	2.976	mg/L	0.0212	0.71%
Be 313.107†	45388.7	0.0212	mg/L	0.00013	0.0212	mg/L	0.00013	0.62%
Ca 317.933†	2397842.5	95.30	mg/L	1.469	95.30	mg/L	1.469	1.54%
Cd 228.802†	67.6	0.0016	mg/L	0.00054	0.0016	mg/L	0.00054	34.79%
Co 228.616†	6994.7	0.3001	mg/L	0.00356	0.3001	mg/L	0.00356	1.19%
Cr 267.716†	27430.0	0.5196	mg/L	0.00714	0.5196	mg/L	0.00714	1.37%
Cu 327.393†	112266.3	1.313	mg/L	0.0208	1.313	mg/L	0.0208	1.58%
Fe 238.204†	11772669.3	566.4	mg/L	2.89	566.4	mg/L	2.89	0.51%
K 766.490†	673200.5	46.97	mg/L	1.470	46.97	mg/L	1.470	3.13%
Mg 285.213†	6087120.5	112.0	mg/L	1.77	112.0	mg/L	1.77	1.58%
Mn 257.610†	2000065.5	17.50	mg/L	0.280	17.50	mg/L	0.280	1.60%
Mo 202.031†	778.5	0.0416	mg/L	0.00086	0.0416	mg/L	0.00086	2.06%
Na 589.592†	36829.4	1.109	mg/L	0.0178	1.109	mg/L	0.0178	1.61%
Ni 231.604†	30427.5	0.8333	mg/L	0.01105	0.8333	mg/L	0.01105	1.33%
Pb 220.353†	12393.5	2.360	mg/L	0.0286	2.360	mg/L	0.0286	1.21%
Sb 206.836†	-68.2	-0.0273	mg/L	0.00464	-0.0273	mg/L	0.00464	17.02%
Se 196.026†	-400.8	0.1249	mg/L	0.00979	0.1249	mg/L	0.00979	7.83%
Sn 189.927†	851.1	0.1533	mg/L	0.00159	0.1533	mg/L	0.00159	1.04%
Ti 337.279†	262489.6	2.634	mg/L	0.0064	2.634	mg/L	0.0064	0.24%
Tl 351.924†	-265.7	-0.0033	mg/L	0.00410	-0.0033	mg/L	0.00410	123.61%
V 290.880†	49415.3	0.5277	mg/L	0.01099	0.5277	mg/L	0.01099	2.08%
Zn 206.200†	125363.0	3.171	mg/L	0.0624	3.171	mg/L	0.0624	1.97%
Zr 343.823†	26764.7	0.1061	mg/L	0.00154	0.1061	mg/L	0.00154	1.45%

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Batch ID: AVIO 500
Sequence No.: 47 **Autosampler Location: 49**
Sample ID: 24E1437-14 **Date Collected: 5/27/2024 7:15:02 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 200

Mean Data: 24E1437-14

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	560375.3	88.5	%	0.72	88.5	%	0.72	0.81%

Y axial	2353913.2	87.0	%	1.14	87.0	%	1.14	1.31%
Ag 328.068†	-669.8	0.0004	mg/L	0.00153	0.0004	mg/L	0.00153	354.03%
Al 396.153†	10126214.4	418.5	mg/L	4.97	418.5	mg/L	4.97	1.19%
As 188.979†	167.2	0.1835	mg/L	0.00140	0.1835	mg/L	0.00140	0.76%
B 208.889†	926.7	0.1138	mg/L	0.00192	0.1138	mg/L	0.00192	1.69%
Ba 233.527†	93351.7	3.235	mg/L	0.0303	3.235	mg/L	0.0303	0.94%
Be 313.107†	49601.4	0.0232	mg/L	0.00003	0.0232	mg/L	0.00003	0.11%
Ca 317.933†	2346581.6	93.27	mg/L	0.416	93.27	mg/L	0.416	0.45%
Cd 228.802†	75.9	0.0019	mg/L	0.00057	0.0019	mg/L	0.00057	29.97%
Co 228.616†	7559.7	0.3243	mg/L	0.00291	0.3243	mg/L	0.00291	0.90%
Cr 267.716†	29573.6	0.5604	mg/L	0.00534	0.5604	mg/L	0.00534	0.95%
Cu 327.393†	121136.6	1.416	mg/L	0.0084	1.416	mg/L	0.0084	0.59%
Fe 238.204†	12680301.1	610.1	mg/L	3.56	610.1	mg/L	3.56	0.58%
K 766.490†	672606.9	46.93	mg/L	0.688	46.93	mg/L	0.688	1.47%
Mg 285.213†	6620747.4	121.9	mg/L	0.79	121.9	mg/L	0.79	0.65%
Mn 257.610†	2101698.9	18.39	mg/L	0.099	18.39	mg/L	0.099	0.54%
Mo 202.031†	683.0	0.0365	mg/L	0.00079	0.0365	mg/L	0.00079	2.15%
Na 589.592†	42867.4	1.291	mg/L	0.0131	1.291	mg/L	0.0131	1.02%
Ni 231.604†	32324.8	0.8857	mg/L	0.00722	0.8857	mg/L	0.00722	0.82%
Pb 220.353†	12522.8	2.387	mg/L	0.0193	2.387	mg/L	0.0193	0.81%
Sb 206.836†	-74.6	-0.0299	mg/L	0.00344	-0.0299	mg/L	0.00344	11.53%
Se 196.026†	-437.5	0.1315	mg/L	0.00248	0.1315	mg/L	0.00248	1.89%
Sn 189.927†	1415.8	0.2526	mg/L	0.00070	0.2526	mg/L	0.00070	0.28%
Ti 337.279†	284154.3	2.851	mg/L	0.0059	2.851	mg/L	0.0059	0.21%
Tl 351.924†	-285.3	-0.0032	mg/L	0.00786	-0.0032	mg/L	0.00786	245.12%
V 290.880†	55315.9	0.5918	mg/L	0.00539	0.5918	mg/L	0.00539	0.91%
Zn 206.200†	129380.0	3.272	mg/L	0.0198	3.272	mg/L	0.0198	0.61%
Zr 343.823†	29616.8	0.1181	mg/L	0.00112	0.1181	mg/L	0.00112	0.95%

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Batch ID: AVIO 500
Sequence No.: 48 **Autosampler Location: 50**
Sample ID: 24E1437-15 **Date Collected: 5/27/2024 7:22:06 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 200

Mean Data: 24E1437-15

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	532716.1	84.1	%	0.46	84.1	%	0.46	0.54%
Y axial	2173246.6	80.3	%	0.14	80.3	%	0.14	0.18%
Ag 328.068†	-1239.4	0.0058	mg/L	0.00104	0.0058	mg/L	0.00104	17.78%
Al 396.153†	9860424.7	407.4	mg/L	9.99	407.4	mg/L	9.99	2.45%
As 188.979†	341.9	0.3036	mg/L	0.00742	0.3036	mg/L	0.00742	2.45%
B 208.889†	1133.5	0.1395	mg/L	0.00242	0.1395	mg/L	0.00242	1.73%
Ba 233.527†	114063.1	3.952	mg/L	0.0152	3.952	mg/L	0.0152	0.38%
Be 313.107†	47876.1	0.0222	mg/L	0.00004	0.0222	mg/L	0.00004	0.19%
Ca 317.933†	14769138.4	587.0	mg/L	5.28	587.0	mg/L	5.28	0.90%
Cd 228.802†	148.9	0.0018	mg/L	0.00005	0.0018	mg/L	0.00005	2.66%
Co 228.616†	7603.2	0.3276	mg/L	0.00024	0.3276	mg/L	0.00024	0.07%
Cr 267.716†	33994.7	0.6458	mg/L	0.00020	0.6458	mg/L	0.00020	0.03%
Cu 327.393†	118492.4	1.395	mg/L	0.0079	1.395	mg/L	0.0079	0.57%
Fe 238.204†	13807401.8	664.3	mg/L	7.16	664.3	mg/L	7.16	1.08%
K 766.490†	765582.5	53.41	mg/L	1.173	53.41	mg/L	1.173	2.20%
Mg 285.213†	7304478.5	134.3	mg/L	1.65	134.3	mg/L	1.65	1.23%
Mn 257.610†	1761699.1	15.42	mg/L	0.111	15.42	mg/L	0.111	0.72%
Mo 202.031†	719.6	0.0384	mg/L	0.00168	0.0384	mg/L	0.00168	4.38%
Na 589.592†	60479.3	1.821	mg/L	0.0090	1.821	mg/L	0.0090	0.50%
Ni 231.604†	32046.4	0.8813	mg/L	0.00166	0.8813	mg/L	0.00166	0.19%
Pb 220.353†	27974.5	5.302	mg/L	0.0063	5.302	mg/L	0.0063	0.12%
Sb 206.836†	-78.0	-0.0325	mg/L	0.00219	-0.0325	mg/L	0.00219	6.74%
Se 196.026†	-513.5	0.1253	mg/L	0.00890	0.1253	mg/L	0.00890	7.10%
Sn 189.927†	734.4	0.1328	mg/L	0.00201	0.1328	mg/L	0.00201	1.51%
Ti 337.279†	264503.2	2.654	mg/L	0.0044	2.654	mg/L	0.0044	0.17%
Tl 351.924†	-295.2	0.0041	mg/L	0.00395	0.0041	mg/L	0.00395	97.45%
V 290.880†	58535.7	0.6256	mg/L	0.00342	0.6256	mg/L	0.00342	0.55%
Zn 206.200†	141733.8	3.585	mg/L	0.0144	3.585	mg/L	0.0144	0.40%

Zr 343.823†	34814.6	0.1411 mg/L	0.00078	0.1411 mg/L	0.00078	0.56%

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Batch ID: AVIO 500
Sequence No.: 49 **Autosampler Location: 5**
Sample ID: SEQ-CCV@ 23J0975 **Date Collected: 5/27/2024 7:29:09 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 200

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	606500.9	95.7	%	0.56	95.7	%	0.56	0.58%
Y axial	2444830.2	90.3	%	0.86	90.3	%	0.86	0.96%
Ag 328.068†	110556.2	2.464	mg/L	0.0477	2.464	mg/L	0.0477	1.94%
QC value within limits for Ag 328.068 Recovery = 98.54%								
Al 396.153†	189704.8	7.464	mg/L	0.0581	7.464	mg/L	0.0581	0.78%
QC value less than the lower limit for Al 396.153 Recovery = 74.64%								
As 188.979†	7665.6	4.953	mg/L	0.0598	4.953	mg/L	0.0598	1.21%
QC value within limits for As 188.979 Recovery = 99.05%								
B 208.889†	39930.4	4.698	mg/L	0.0345	4.698	mg/L	0.0345	0.73%
QC value within limits for B 208.889 Recovery = 93.96%								
Ba 233.527†	142760.4	4.946	mg/L	0.0534	4.946	mg/L	0.0534	1.08%
QC value within limits for Ba 233.527 Recovery = 98.93%								
Be 313.107†	9493767.4	4.814	mg/L	0.0226	4.814	mg/L	0.0226	0.47%
QC value within limits for Be 313.107 Recovery = 96.29%								
Ca 317.933†	243997.0	9.698	mg/L	0.0730	9.698	mg/L	0.0730	0.75%
QC value within limits for Ca 317.933 Recovery = 96.98%								
Cd 228.802†	135271.2	5.049	mg/L	0.0440	5.049	mg/L	0.0440	0.87%
QC value within limits for Cd 228.802 Recovery = 100.99%								
Co 228.616†	121245.7	5.232	mg/L	0.0495	5.232	mg/L	0.0495	0.95%
QC value within limits for Co 228.616 Recovery = 104.63%								
Cr 267.716†	275935.6	5.160	mg/L	0.0431	5.160	mg/L	0.0431	0.84%
QC value within limits for Cr 267.716 Recovery = 103.20%								
Cu 327.393†	421764.8	4.948	mg/L	0.0352	4.948	mg/L	0.0352	0.71%
QC value within limits for Cu 327.393 Recovery = 98.96%								
Fe 238.204†	102195.7	4.980	mg/L	0.0235	4.980	mg/L	0.0235	0.47%
QC value within limits for Fe 238.204 Recovery = 99.61%								
K 766.490†	127531.8	8.898	mg/L	0.1822	8.898	mg/L	0.1822	2.05%
QC value less than the lower limit for K 766.490 Recovery = 88.98%								
Mg 285.213†	500424.1	9.164	mg/L	0.0459	9.164	mg/L	0.0459	0.50%
QC value within limits for Mg 285.213 Recovery = 91.64%								
Mn 257.610†	553751.3	4.842	mg/L	0.0286	4.842	mg/L	0.0286	0.59%
QC value within limits for Mn 257.610 Recovery = 96.84%								
Mo 202.031†	96857.2	5.174	mg/L	0.0459	5.174	mg/L	0.0459	0.89%
QC value within limits for Mo 202.031 Recovery = 103.49%								
Na 589.592†	289244.6	8.709	mg/L	0.0648	8.709	mg/L	0.0648	0.74%
QC value less than the lower limit for Na 589.592 Recovery = 87.09%								
Ni 231.604†	195946.3	5.195	mg/L	0.0460	5.195	mg/L	0.0460	0.89%
QC value within limits for Ni 231.604 Recovery = 103.89%								
Pb 220.353†	25389.7	4.805	mg/L	0.0357	4.805	mg/L	0.0357	0.74%
QC value within limits for Pb 220.353 Recovery = 96.10%								
Sb 206.836†	15321.7	5.010	mg/L	0.0628	5.010	mg/L	0.0628	1.25%
QC value within limits for Sb 206.836 Recovery = 100.20%								
Se 196.026†	8248.6	4.708	mg/L	0.0491	4.708	mg/L	0.0491	1.04%
QC value within limits for Se 196.026 Recovery = 94.16%								
Sn 189.927†	29340.0	5.150	mg/L	0.0467	5.150	mg/L	0.0467	0.91%
QC value within limits for Sn 189.927 Recovery = 103.00%								
Ti 337.279†	488836.8	4.903	mg/L	0.0363	4.903	mg/L	0.0363	0.74%
QC value within limits for Ti 337.279 Recovery = 98.06%								
Tl 351.924†	6161.7	2.587	mg/L	0.0282	2.587	mg/L	0.0282	1.09%
QC value within limits for Tl 351.924 Recovery = 103.49%								
V 290.880†	458039.0	5.124	mg/L	0.0465	5.124	mg/L	0.0465	0.91%
QC value within limits for V 290.880 Recovery = 102.48%								
Zn 206.200†	208257.9	5.288	mg/L	0.0521	5.288	mg/L	0.0521	0.98%
QC value within limits for Zn 206.200 Recovery = 105.76%								
Zr 343.823†	1094122.8	5.329	mg/L	0.0458	5.329	mg/L	0.0458	0.86%

QC value within limits for Zr 343.823 Recovery = 106.57%
QC Failed. Continue with analysis.

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Batch ID: AVIO 500
Sequence No.: 50 **Autosampler Location: 1**
Sample ID: SEQ-CCB@ 23J0970 **Date Collected: 5/27/2024 7:35:14 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 200

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	593753.3	93.7	%	0.36	93.7	%	0.36	0.38%
Y axial	2501388.6	92.4	%	0.25	92.4	%	0.25	0.27%
Ag 328.068†	-37.4	-0.0008	mg/L	0.00031	-0.0008	mg/L	0.00031	36.06%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	47.7	0.0019	mg/L	0.00237	0.0019	mg/L	0.00237	124.78%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	-4.8	-0.0031	mg/L	0.00089	-0.0031	mg/L	0.00089	28.28%
QC value within limits for As 188.979 Recovery = Not calculated								
B 208.889†	17.4	0.0021	mg/L	0.00014	0.0021	mg/L	0.00014	6.65%
QC value within limits for B 208.889 Recovery = Not calculated								
Ba 233.527†	-0.5	-0.0000	mg/L	0.00011	-0.0000	mg/L	0.00011	726.43%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-1213.6	-0.0006	mg/L	0.00002	-0.0006	mg/L	0.00002	3.66%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	-82.1	-0.0033	mg/L	0.00069	-0.0033	mg/L	0.00069	21.21%
QC value within limits for Ca 317.933 Recovery = Not calculated								
Cd 228.802†	-5.9	-0.0001	mg/L	0.00005	-0.0001	mg/L	0.00005	36.56%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	-30.2	-0.0013	mg/L	0.00006	-0.0013	mg/L	0.00006	4.60%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	27.3	0.0005	mg/L	0.00015	0.0005	mg/L	0.00015	29.49%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	39.1	0.0005	mg/L	0.00048	0.0005	mg/L	0.00048	104.93%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 238.204†	188.6	0.0091	mg/L	0.00089	0.0091	mg/L	0.00089	9.85%
QC value within limits for Fe 238.204 Recovery = Not calculated								
K 766.490†	985.9	0.0688	mg/L	0.00849	0.0688	mg/L	0.00849	12.34%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213†	106.9	0.0020	mg/L	0.00035	0.0020	mg/L	0.00035	17.72%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610†	21.6	0.0002	mg/L	0.00005	0.0002	mg/L	0.00005	28.58%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	19.6	0.0010	mg/L	0.00016	0.0010	mg/L	0.00016	15.32%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592†	-8795.8	-0.2648	mg/L	0.00037	-0.2648	mg/L	0.00037	0.14%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604†	-34.2	-0.0009	mg/L	0.00015	-0.0009	mg/L	0.00015	16.64%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	27.6	0.0052	mg/L	0.00161	0.0052	mg/L	0.00161	30.88%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	13.0	0.0042	mg/L	0.00098	0.0042	mg/L	0.00098	23.11%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	9.3	0.0053	mg/L	0.00181	0.0053	mg/L	0.00181	33.89%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	8.6	0.0015	mg/L	0.00074	0.0015	mg/L	0.00074	49.44%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 337.279†	13.3	0.0001	mg/L	0.00005	0.0001	mg/L	0.00005	37.76%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 351.924†	-4.1	-0.0016	mg/L	0.00144	-0.0016	mg/L	0.00144	87.17%
QC value within limits for Tl 351.924 Recovery = Not calculated								
V 290.880†	-118.5	-0.0013	mg/L	0.00009	-0.0013	mg/L	0.00009	6.45%
QC value within limits for V 290.880 Recovery = Not calculated								
Zn 206.200†	147.2	0.0037	mg/L	0.00018	0.0037	mg/L	0.00018	4.69%
QC value within limits for Zn 206.200 Recovery = Not calculated								

Zr 343.823†	113.3	0.0006	mg/L	0.00010	0.0006	mg/L	0.00010 17.91%

All analyte(s) passed QC.

Batch ID: AVIO 500
Sequence No.: 51 **Autosampler Location: 51**
Sample ID: 24E1437-16 **Date Collected: 5/27/2024 7:41:26 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 100

Mean Data: 24E1437-16

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	559519.5	88.3	%	0.40	88.3	%	0.40	0.45%
Y axial	2334955.9	86.3	%	0.85	86.3	%	0.85	0.99%
Ag 328.068†	-833.1	-0.0008	mg/L	0.00039	-0.0008	mg/L	0.00039	50.27%
Al 396.153†	10584459.2	437.4	mg/L	1.88	437.4	mg/L	1.88	0.43%
As 188.979†	230.0	0.2363	mg/L	0.00430	0.2363	mg/L	0.00430	1.82%
B 208.889†	892.3	0.1093	mg/L	0.00134	0.1093	mg/L	0.00134	1.23%
Ba 233.527†	93532.6	3.241	mg/L	0.0302	3.241	mg/L	0.0302	0.93%
Be 313.107†	53090.4	0.0247	mg/L	0.00019	0.0247	mg/L	0.00019	0.75%
Ca 317.933†	2767517.7	110.0	mg/L	1.13	110.0	mg/L	1.13	1.02%
Cd 228.802†	84.2	0.0012	mg/L	0.00068	0.0012	mg/L	0.00068	54.35%
Co 228.616†	8708.2	0.3735	mg/L	0.00450	0.3735	mg/L	0.00450	1.20%
Cr 267.716†	32292.5	0.6144	mg/L	0.00629	0.6144	mg/L	0.00629	1.02%
Cu 327.393†	126930.2	1.485	mg/L	0.0066	1.485	mg/L	0.0066	0.45%
Fe 238.204†	14695427.8	707.0	mg/L	1.95	707.0	mg/L	1.95	0.28%
K 766.490†	749471.0	52.29	mg/L	2.274	52.29	mg/L	2.274	4.35%
Mg 285.213†	8006954.9	147.4	mg/L	0.34	147.4	mg/L	0.34	0.23%
Mn 257.610†	1954390.6	17.11	mg/L	0.216	17.11	mg/L	0.216	1.26%
Mo 202.031†	755.4	0.0404	mg/L	0.00042	0.0404	mg/L	0.00042	1.05%
Na 589.592†	46811.2	1.409	mg/L	0.0259	1.409	mg/L	0.0259	1.84%
Ni 231.604†	37118.5	1.018	mg/L	0.0038	1.018	mg/L	0.0038	0.37%
Pb 220.353†	16371.3	3.112	mg/L	0.0308	3.112	mg/L	0.0308	0.99%
Sb 206.836†	-107.0	-0.0410	mg/L	0.00220	-0.0410	mg/L	0.00220	5.36%
Se 196.026†	-524.1	0.1457	mg/L	0.00274	0.1457	mg/L	0.00274	1.88%
Sn 189.927†	900.1	0.1624	mg/L	0.00263	0.1624	mg/L	0.00263	1.62%
Ti 337.279†	299370.3	3.004	mg/L	0.0119	3.004	mg/L	0.0119	0.40%
Tl 351.924†	-337.4	-0.0050	mg/L	0.00573	-0.0050	mg/L	0.00573	114.76%
V 290.880†	61396.7	0.6562	mg/L	0.00303	0.6562	mg/L	0.00303	0.46%
Zn 206.200†	151587.0	3.834	mg/L	0.0122	3.834	mg/L	0.0122	0.32%
Zr 343.823†	44130.3	0.1847	mg/L	0.00104	0.1847	mg/L	0.00104	0.57%

Batch ID: AVIO 500
Sequence No.: 52 **Autosampler Location: 52**
Sample ID: 24E1437-17 **Date Collected: 5/27/2024 7:48:31 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 200

Mean Data: 24E1437-17

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	550171.2	86.8	%	0.36	86.8	%	0.36	0.42%
Y axial	2314019.6	85.5	%	0.18	85.5	%	0.18	0.21%
Ag 328.068†	-637.5	0.0010	mg/L	0.00060	0.0010	mg/L	0.00060	60.58%
Al 396.153†	7742387.8	320.0	mg/L	2.63	320.0	mg/L	2.63	0.82%
As 188.979†	136.1	0.1494	mg/L	0.00571	0.1494	mg/L	0.00571	3.82%
B 208.889†	738.4	0.0907	mg/L	0.00050	0.0907	mg/L	0.00050	0.55%
Ba 233.527†	66952.2	2.320	mg/L	0.0140	2.320	mg/L	0.0140	0.60%
Be 313.107†	34469.2	0.0152	mg/L	0.00017	0.0152	mg/L	0.00017	1.14%
Ca 317.933†	3126034.7	124.2	mg/L	0.77	124.2	mg/L	0.77	0.62%
Cd 228.802†	118.6	0.0035	mg/L	0.00049	0.0035	mg/L	0.00049	14.10%
Co 228.616†	5208.8	0.2236	mg/L	0.00039	0.2236	mg/L	0.00039	0.17%

Cr 267.716†	24809.8	0.4703 mg/L	0.00242	0.4703 mg/L	0.00242	0.51%
Cu 327.393†	73702.5	0.8634 mg/L	0.00403	0.8634 mg/L	0.00403	0.47%
Fe 238.204†	10356139.4	498.3 mg/L	2.63	498.3 mg/L	2.63	0.53%
K 766.490†	385133.0	26.87 mg/L	0.615	26.87 mg/L	0.615	2.29%
Mg 285.213†	5388581.7	99.17 mg/L	0.993	99.17 mg/L	0.993	1.00%
Mn 257.610†	1656943.5	14.50 mg/L	0.139	14.50 mg/L	0.139	0.96%
Mo 202.031†	543.3	0.0290 mg/L	0.00122	0.0290 mg/L	0.00122	4.21%
Na 589.592†	23736.1	0.7147 mg/L	0.01733	0.7147 mg/L	0.01733	2.43%
Ni 231.604†	18707.7	0.5193 mg/L	0.00336	0.5193 mg/L	0.00336	0.65%
Pb 220.353†	20924.6	3.967 mg/L	0.0191	3.967 mg/L	0.0191	0.48%
Sb 206.836†	-57.1	-0.0235 mg/L	0.00262	-0.0235 mg/L	0.00262	11.15%
Se 196.026†	-349.9	0.1120 mg/L	0.00428	0.1120 mg/L	0.00428	3.82%
Sn 189.927†	421.6	0.0770 mg/L	0.00121	0.0770 mg/L	0.00121	1.57%
Ti 337.279†	197895.8	1.986 mg/L	0.0093	1.986 mg/L	0.0093	0.47%
Tl 351.924†	-207.4	0.0081 mg/L	0.00106	0.0081 mg/L	0.00106	13.00%
V 290.880†	60992.2	0.6602 mg/L	0.00505	0.6602 mg/L	0.00505	0.76%
Zn 206.200†	104677.8	2.648 mg/L	0.0106	2.648 mg/L	0.0106	0.40%
Zr 343.823†	22336.5	0.0875 mg/L	0.00056	0.0875 mg/L	0.00056	0.64%

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Batch ID: AVIO 500
Sequence No.: 53 **Autosampler Location: 53**
Sample ID: 24E1437-18 **Date Collected: 5/27/2024 7:55:41 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 200

Mean Data: 24E1437-18

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	537463.1	84.8	%	0.37	84.8	%	0.37	0.44%
Y axial	2260328.4	83.5	%	0.20	83.5	%	0.20	0.24%
Ag 328.068†	-848.2	0.0030	mg/L	0.00088	0.0030	mg/L	0.00088	29.61%
Al 396.153†	9196711.3	380.0	mg/L	3.28	380.0	mg/L	3.28	0.86%
As 188.979†	165.4	0.1783	mg/L	0.00805	0.1783	mg/L	0.00805	4.51%
B 208.889†	776.1	0.0950	mg/L	0.00138	0.0950	mg/L	0.00138	1.45%
Ba 233.527†	77387.6	2.681	mg/L	0.0170	2.681	mg/L	0.0170	0.63%
Be 313.107†	40603.9	0.0175	mg/L	0.00011	0.0175	mg/L	0.00011	0.61%
Ca 317.933†	6248135.4	248.3	mg/L	0.80	248.3	mg/L	0.80	0.32%
Cd 228.802†	195.8	0.0060	mg/L	0.00017	0.0060	mg/L	0.00017	2.90%
Co 228.616†	5572.5	0.2385	mg/L	0.00077	0.2385	mg/L	0.00077	0.32%
Cr 267.716†	32666.2	0.6179	mg/L	0.00157	0.6179	mg/L	0.00157	0.25%
Cu 327.393†	90530.1	1.062	mg/L	0.0012	1.062	mg/L	0.0012	0.12%
Fe 238.204†	12022106.2	578.4	mg/L	0.27	578.4	mg/L	0.27	0.05%
K 766.490†	448195.8	31.27	mg/L	0.814	31.27	mg/L	0.814	2.60%
Mg 285.213†	10196624.2	187.4	mg/L	0.10	187.4	mg/L	0.10	0.06%
Mn 257.610†	2027485.8	17.74	mg/L	0.102	17.74	mg/L	0.102	0.57%
Mo 202.031†	660.3	0.0353	mg/L	0.00099	0.0353	mg/L	0.00099	2.81%
Na 589.592†	32145.4	0.9679	mg/L	0.01413	0.9679	mg/L	0.01413	1.46%
Ni 231.604†	23310.4	0.6451	mg/L	0.00126	0.6451	mg/L	0.00126	0.20%
Pb 220.353†	23903.9	4.533	mg/L	0.0069	4.533	mg/L	0.0069	0.15%
Sb 206.836†	-76.7	-0.0315	mg/L	0.00150	-0.0315	mg/L	0.00150	4.78%
Se 196.026†	-407.8	0.1285	mg/L	0.00547	0.1285	mg/L	0.00547	4.26%
Sn 189.927†	467.6	0.0860	mg/L	0.00133	0.0860	mg/L	0.00133	1.54%
Ti 337.279†	259168.0	2.601	mg/L	0.0096	2.601	mg/L	0.0096	0.37%
Tl 351.924†	-253.7	0.0034	mg/L	0.00364	0.0034	mg/L	0.00364	106.30%
V 290.880†	85298.5	0.9359	mg/L	0.00231	0.9359	mg/L	0.00231	0.25%
Zn 206.200†	127423.5	3.223	mg/L	0.0084	3.223	mg/L	0.0084	0.26%
Zr 343.823†	27771.4	0.1105	mg/L	0.00022	0.1105	mg/L	0.00022	0.20%

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Batch ID: AVIO 500
Sequence No.: 54 **Autosampler Location: 54**
Sample ID: 24E1437-19 **Date Collected: 5/27/2024 8:02:46 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 200

Mean Data: 24E1437-19

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	551880.0	87.1	%	0.53	87.1	%	0.53	0.61%
Y axial	2344793.8	86.6	%	0.92	86.6	%	0.92	1.06%
Ag 328.068†	-646.0	-0.0006	mg/L	0.00029	-0.0006	mg/L	0.00029	47.48%
Al 396.153†	7499284.0	309.9	mg/L	3.97	309.9	mg/L	3.97	1.28%
As 188.979†	135.1	0.1464	mg/L	0.00502	0.1464	mg/L	0.00502	3.43%
B 208.889†	720.2	0.0885	mg/L	0.00074	0.0885	mg/L	0.00074	0.84%
Ba 233.527†	64289.6	2.228	mg/L	0.0361	2.228	mg/L	0.0361	1.62%
Be 313.107†	32617.5	0.0146	mg/L	0.00024	0.0146	mg/L	0.00024	1.61%
Ca 317.933†	2620366.9	104.1	mg/L	0.12	104.1	mg/L	0.12	0.11%
Cd 228.802†	115.7	0.0034	mg/L	0.00017	0.0034	mg/L	0.00017	5.05%
Co 228.616†	5071.0	0.2176	mg/L	0.00200	0.2176	mg/L	0.00200	0.92%
Cr 267.716†	22979.3	0.4359	mg/L	0.00686	0.4359	mg/L	0.00686	1.57%
Cu 327.393†	68461.2	0.8019	mg/L	0.00846	0.8019	mg/L	0.00846	1.06%
Fe 238.204†	9950498.3	478.7	mg/L	3.23	478.7	mg/L	3.23	0.67%
K 766.490†	392960.4	27.42	mg/L	0.557	27.42	mg/L	0.557	2.03%
Mg 285.213†	5021682.2	92.43	mg/L	0.693	92.43	mg/L	0.693	0.75%
Mn 257.610†	1577713.6	13.81	mg/L	0.040	13.81	mg/L	0.040	0.29%
Mo 202.031†	514.6	0.0275	mg/L	0.00038	0.0275	mg/L	0.00038	1.39%
Na 589.592†	25397.8	0.7647	mg/L	0.02050	0.7647	mg/L	0.02050	2.68%
Ni 231.604†	17706.5	0.4919	mg/L	0.00497	0.4919	mg/L	0.00497	1.01%
Pb 220.353†	18223.8	3.457	mg/L	0.0292	3.457	mg/L	0.0292	0.85%
Sb 206.836†	-55.7	-0.0226	mg/L	0.00460	-0.0226	mg/L	0.00460	20.36%
Se 196.026†	-309.3	0.1231	mg/L	0.00471	0.1231	mg/L	0.00471	3.83%
Sn 189.927†	509.4	0.0923	mg/L	0.00143	0.0923	mg/L	0.00143	1.55%
Ti 337.279†	197492.9	1.982	mg/L	0.0228	1.982	mg/L	0.0228	1.15%
Tl 351.924†	-204.7	0.0055	mg/L	0.00158	0.0055	mg/L	0.00158	28.82%
V 290.880†	52942.0	0.5707	mg/L	0.00649	0.5707	mg/L	0.00649	1.14%
Zn 206.200†	104324.6	2.639	mg/L	0.0334	2.639	mg/L	0.0334	1.27%
Zr 343.823†	20923.6	0.0814	mg/L	0.00101	0.0814	mg/L	0.00101	1.24%

Batch ID: AVIO 500
Sequence No.: 55
Sample ID: RINSE
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 200

Autosampler Location: 7
Date Collected: 5/27/2024 8:09:56 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: RINSE

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	622457.8	98.3	%	0.94	98.3	%	0.94	0.95%
Y axial	2639564.7	97.5	%	0.58	97.5	%	0.58	0.60%
Ag 328.068†	-212.7	-0.0048	mg/L	0.00022	-0.0048	mg/L	0.00022	4.58%
Al 396.153†	11.4	0.0004	mg/L	0.00185	0.0004	mg/L	0.00185	448.05%
As 188.979†	-4.6	-0.0030	mg/L	0.00321	-0.0030	mg/L	0.00321	106.78%
B 208.889†	7.8	0.0009	mg/L	0.00086	0.0009	mg/L	0.00086	93.46%
Ba 233.527†	2.8	0.0001	mg/L	0.00021	0.0001	mg/L	0.00021	220.04%
Be 313.107†	-1767.2	-0.0009	mg/L	0.00002	-0.0009	mg/L	0.00002	2.40%
Ca 317.933†	-101.1	-0.0040	mg/L	0.00319	-0.0040	mg/L	0.00319	79.26%
Cd 228.802†	-15.3	-0.0005	mg/L	0.00011	-0.0005	mg/L	0.00011	21.10%
Co 228.616†	-31.2	-0.0013	mg/L	0.00010	-0.0013	mg/L	0.00010	7.24%
Cr 267.716†	18.6	0.0003	mg/L	0.00021	0.0003	mg/L	0.00021	59.36%
Cu 327.393†	-115.8	-0.0013	mg/L	0.00020	-0.0013	mg/L	0.00020	14.60%
Fe 238.204†	306.7	0.0147	mg/L	0.00102	0.0147	mg/L	0.00102	6.91%
K 766.490†	822.6	0.0574	mg/L	0.00533	0.0574	mg/L	0.00533	9.29%
Mg 285.213†	175.8	0.0032	mg/L	0.00012	0.0032	mg/L	0.00012	3.83%
Mn 257.610†	34.3	0.0003	mg/L	0.00005	0.0003	mg/L	0.00005	16.19%
Mo 202.031†	16.7	0.0009	mg/L	0.00038	0.0009	mg/L	0.00038	42.92%
Na 589.592†	-9387.0	-0.2826	mg/L	0.00407	-0.2826	mg/L	0.00407	1.44%
Ni 231.604†	-9.0	-0.0002	mg/L	0.00012	-0.0002	mg/L	0.00012	51.28%
Pb 220.353†	22.9	0.0043	mg/L	0.00100	0.0043	mg/L	0.00100	23.27%
Sb 206.836†	7.4	0.0024	mg/L	0.00097	0.0024	mg/L	0.00097	40.19%

Se 196.026†	7.3	0.0042 mg/L	0.00031	0.0042 mg/L	0.00031	7.48%
Sn 189.927†	4.4	0.0008 mg/L	0.00047	0.0008 mg/L	0.00047	60.59%
Ti 337.279†	18.1	0.0002 mg/L	0.00009	0.0002 mg/L	0.00009	51.99%
Tl 351.924†	-0.9	-0.0004 mg/L	0.00281	-0.0004 mg/L	0.00281	800.29%
V 290.880†	-166.6	-0.0019 mg/L	0.00029	-0.0019 mg/L	0.00029	15.75%
Zn 206.200†	95.9	0.0025 mg/L	0.00011	0.0025 mg/L	0.00011	4.42%
Zr 343.823†	80.4	0.0004 mg/L	0.00018	0.0004 mg/L	0.00018	45.37%

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Batch ID: AVIO 500
Sequence No.: 56 **Autosampler Location: 55**
Sample ID: B375114-BLK1 **Date Collected: 5/27/2024 8:16:10 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 100

Mean Data: B375114-BLK1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	610032.7	96.3	%	0.43	96.3	%	0.43	0.45%
Y axial	2586102.4	95.5	%	0.38	95.5	%	0.38	0.39%
Ag 328.068†	-207.0	-0.0046	mg/L	0.00021	-0.0046	mg/L	0.00021	4.53%
Al 396.153†	17.7	0.0007	mg/L	0.00259	0.0007	mg/L	0.00259	380.72%
As 188.979†	-4.2	-0.0027	mg/L	0.00152	-0.0027	mg/L	0.00152	55.27%
B 208.889†	6.3	0.0008	mg/L	0.00039	0.0008	mg/L	0.00039	51.62%
Ba 233.527†	2.9	0.0001	mg/L	0.00020	0.0001	mg/L	0.00020	197.71%
Be 313.107†	-1664.4	-0.0008	mg/L	0.00001	-0.0008	mg/L	0.00001	1.52%
Ca 317.933†	306.3	0.0122	mg/L	0.00038	0.0122	mg/L	0.00038	3.10%
Cd 228.802†	-12.8	-0.0004	mg/L	0.00036	-0.0004	mg/L	0.00036	85.38%
Co 228.616†	-34.0	-0.0015	mg/L	0.00021	-0.0015	mg/L	0.00021	14.38%
Cr 267.716†	12.6	0.0002	mg/L	0.00010	0.0002	mg/L	0.00010	43.52%
Cu 327.393†	-138.0	-0.0016	mg/L	0.00036	-0.0016	mg/L	0.00036	22.45%
Fe 238.204†	627.8	0.0302	mg/L	0.00007	0.0302	mg/L	0.00007	0.24%
K 766.490†	675.0	0.0471	mg/L	0.00286	0.0471	mg/L	0.00286	6.07%
Mg 285.213†	169.1	0.0031	mg/L	0.00021	0.0031	mg/L	0.00021	6.72%
Mn 257.610†	23.1	0.0002	mg/L	0.00007	0.0002	mg/L	0.00007	33.04%
Mo 202.031†	12.9	0.0007	mg/L	0.00026	0.0007	mg/L	0.00026	38.36%
Na 589.592†	-9230.7	-0.2779	mg/L	0.00313	-0.2779	mg/L	0.00313	1.13%
Ni 231.604†	-21.2	-0.0006	mg/L	0.00040	-0.0006	mg/L	0.00040	72.38%
Pb 220.353†	15.7	0.0030	mg/L	0.00034	0.0030	mg/L	0.00034	11.48%
Sb 206.836†	7.9	0.0026	mg/L	0.00220	0.0026	mg/L	0.00220	84.96%
Se 196.026†	9.8	0.0056	mg/L	0.00127	0.0056	mg/L	0.00127	22.55%
Sn 189.927†	6.4	0.0011	mg/L	0.00057	0.0011	mg/L	0.00057	51.08%
Ti 337.279†	26.2	0.0003	mg/L	0.00013	0.0003	mg/L	0.00013	48.11%
Tl 351.924†	-4.4	-0.0018	mg/L	0.00205	-0.0018	mg/L	0.00205	116.11%
V 290.880†	-133.2	-0.0015	mg/L	0.00044	-0.0015	mg/L	0.00044	29.53%
Zn 206.200†	100.6	0.0026	mg/L	0.00007	0.0026	mg/L	0.00007	2.92%
Zr 343.823†	101.6	0.0005	mg/L	0.00013	0.0005	mg/L	0.00013	27.34%

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Batch ID: AVIO 500
Sequence No.: 57 **Autosampler Location: 56**
Sample ID: B375114-BS1 **Date Collected: 5/27/2024 8:22:23 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 100

Mean Data: B375114-BS1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	613522.0	96.8	%	0.44	96.8	%	0.44	0.46%
Y axial	2569477.1	94.9	%	0.73	94.9	%	0.73	0.77%
Ag 328.068†	18603.7	0.4186	mg/L	0.00395	0.4186	mg/L	0.00395	0.94%
Al 396.153†	9469.6	0.3615	mg/L	0.00191	0.3615	mg/L	0.00191	0.53%
As 188.979†	724.6	0.4682	mg/L	0.00364	0.4682	mg/L	0.00364	0.78%
B 208.889†	7785.1	0.9439	mg/L	0.00681	0.9439	mg/L	0.00681	0.72%

Ba 233.527†	13955.3	0.4835 mg/L	0.00527	0.4835 mg/L	0.00527	1.09%
Be 313.107†	954575.0	0.4841 mg/L	0.00166	0.4841 mg/L	0.00166	0.34%
Ca 317.933†	95688.7	3.803 mg/L	0.0090	3.803 mg/L	0.0090	0.24%
Cd 228.802†	13558.2	0.5069 mg/L	0.00750	0.5069 mg/L	0.00750	1.48%
Co 228.616†	12024.0	0.5187 mg/L	0.00805	0.5187 mg/L	0.00805	1.55%
Cr 267.716†	27603.8	0.5162 mg/L	0.00929	0.5162 mg/L	0.00929	1.80%
Cu 327.393†	82045.1	0.9570 mg/L	0.01767	0.9570 mg/L	0.01767	1.85%
Fe 238.204†	83067.6	4.003 mg/L	0.0140	4.003 mg/L	0.0140	0.35%
K 766.490†	53754.1	3.750 mg/L	0.0764	3.750 mg/L	0.0764	2.04%
Mg 285.213†	194192.4	3.565 mg/L	0.0048	3.565 mg/L	0.0048	0.13%
Mn 257.610†	55890.4	0.4888 mg/L	0.00217	0.4888 mg/L	0.00217	0.44%
Mo 202.031†	9687.4	0.5175 mg/L	0.00928	0.5175 mg/L	0.00928	1.79%
Na 589.592†	109693.9	3.303 mg/L	0.0040	3.303 mg/L	0.0040	0.12%
Ni 231.604†	19620.7	0.5202 mg/L	0.00770	0.5202 mg/L	0.00770	1.48%
Pb 220.353†	2520.8	0.4765 mg/L	0.00506	0.4765 mg/L	0.00506	1.06%
Sb 206.836†	1528.8	0.4999 mg/L	0.00262	0.4999 mg/L	0.00262	0.52%
Se 196.026†	813.3	0.4664 mg/L	0.00463	0.4664 mg/L	0.00463	0.99%
Sn 189.927†	2935.6	0.5153 mg/L	0.00262	0.5153 mg/L	0.00262	0.51%
Ti 337.279†	49055.3	0.4922 mg/L	0.00224	0.4922 mg/L	0.00224	0.46%
Tl 351.924†	1242.9	0.5063 mg/L	0.00539	0.5063 mg/L	0.00539	1.06%
V 290.880†	45612.5	0.5103 mg/L	0.00966	0.5103 mg/L	0.00966	1.89%
Zn 206.200†	41502.9	1.051 mg/L	0.0148	1.051 mg/L	0.0148	1.41%
Zr 343.823†	126.5	0.0004 mg/L	0.00004	0.0004 mg/L	0.00004	8.08%

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Batch ID: AVIO 500
Sequence No.: 58 **Autosampler Location: 57**
Sample ID: B375114-BSD1 **Date Collected: 5/27/2024 8:29:25 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 200

Mean Data: B375114-BSD1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	613177.4	96.8	%	0.25	96.8	%	0.25	0.26%
Y axial	2576944.6	95.2	%	0.63	95.2	%	0.63	0.66%
Ag 328.068†	17705.6	0.3985	mg/L	0.00360	0.3985	mg/L	0.00360	0.90%
Al 396.153†	9159.8	0.3492	mg/L	0.01007	0.3492	mg/L	0.01007	2.88%
As 188.979†	709.1	0.4582	mg/L	0.00319	0.4582	mg/L	0.00319	0.70%
B 208.889†	7673.8	0.9305	mg/L	0.00761	0.9305	mg/L	0.00761	0.82%
Ba 233.527†	13650.0	0.4730	mg/L	0.00754	0.4730	mg/L	0.00754	1.59%
Be 313.107†	946826.0	0.4802	mg/L	0.00166	0.4802	mg/L	0.00166	0.35%
Ca 317.933†	94075.6	3.739	mg/L	0.0360	3.739	mg/L	0.0360	0.96%
Cd 228.802†	13337.1	0.4987	mg/L	0.00530	0.4987	mg/L	0.00530	1.06%
Co 228.616†	11895.0	0.5132	mg/L	0.00692	0.5132	mg/L	0.00692	1.35%
Cr 267.716†	27068.5	0.5062	mg/L	0.00610	0.5062	mg/L	0.00610	1.21%
Cu 327.393†	80350.8	0.9373	mg/L	0.01126	0.9373	mg/L	0.01126	1.20%
Fe 238.204†	81326.6	3.919	mg/L	0.0506	3.919	mg/L	0.0506	1.29%
K 766.490†	51648.9	3.603	mg/L	0.1473	3.603	mg/L	0.1473	4.09%
Mg 285.213†	190629.8	3.499	mg/L	0.0432	3.499	mg/L	0.0432	1.24%
Mn 257.610†	54719.6	0.4786	mg/L	0.00581	0.4786	mg/L	0.00581	1.21%
Mo 202.031†	9522.1	0.5087	mg/L	0.00542	0.5087	mg/L	0.00542	1.06%
Na 589.592†	107763.5	3.245	mg/L	0.0698	3.245	mg/L	0.0698	2.15%
Ni 231.604†	19324.9	0.5123	mg/L	0.00592	0.5123	mg/L	0.00592	1.16%
Pb 220.353†	2484.7	0.4697	mg/L	0.00341	0.4697	mg/L	0.00341	0.73%
Sb 206.836†	1512.6	0.4946	mg/L	0.00525	0.4946	mg/L	0.00525	1.06%
Se 196.026†	803.7	0.4609	mg/L	0.00281	0.4609	mg/L	0.00281	0.61%
Sn 189.927†	2894.2	0.5080	mg/L	0.00462	0.5080	mg/L	0.00462	0.91%
Ti 337.279†	48565.4	0.4873	mg/L	0.00576	0.4873	mg/L	0.00576	1.18%
Tl 351.924†	1228.2	0.5003	mg/L	0.00475	0.5003	mg/L	0.00475	0.95%
V 290.880†	44714.9	0.5003	mg/L	0.00586	0.5003	mg/L	0.00586	1.17%
Zn 206.200†	40905.5	1.036	mg/L	0.0124	1.036	mg/L	0.0124	1.20%
Zr 343.823†	130.2	0.0005	mg/L	0.00006	0.0005	mg/L	0.00006	13.02%

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Batch ID: AVIO 500
Sequence No.: 59 **Autosampler Location: 58**

Sample ID: 24E0941-01 **Date Collected: 5/27/2024 8:36:26 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 200

Mean Data: 24E0941-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	591669.0	93.4	%	0.59	93.4	%	0.59	0.63%
Y axial	2377589.0	87.8	%	0.29	87.8	%	0.29	0.33%
Ag 328.068†	-352.8	-0.0045	mg/L	0.00074	-0.0045	mg/L	0.00074	16.58%
Al 396.153†	577.4	-0.0029	mg/L	0.00076	-0.0029	mg/L	0.00076	26.10%
As 188.979†	-3.1	-0.0021	mg/L	0.00259	-0.0021	mg/L	0.00259	122.29%
B 208.889†	491.5	0.0610	mg/L	0.00082	0.0610	mg/L	0.00082	1.35%
Ba 233.527†	3180.0	0.1102	mg/L	0.00047	0.1102	mg/L	0.00047	0.43%
Be 313.107†	-1439.8	-0.0007	mg/L	0.00001	-0.0007	mg/L	0.00001	1.54%
Ca 317.933†	2519397.0	100.1	mg/L	1.08	100.1	mg/L	1.08	1.08%
Cd 228.802†	-17.3	-0.0006	mg/L	0.00029	-0.0006	mg/L	0.00029	50.54%
Co 228.616†	-22.5	-0.0008	mg/L	0.00019	-0.0008	mg/L	0.00019	22.75%
Cr 267.716†	1545.4	0.0288	mg/L	0.00012	0.0288	mg/L	0.00012	0.42%
Cu 327.393†	-91.9	0.0007	mg/L	0.00016	0.0007	mg/L	0.00016	21.87%
Fe 238.204†	1827.6	0.0879	mg/L	0.00130	0.0879	mg/L	0.00130	1.48%
K 766.490†	132033.3	9.212	mg/L	0.2482	9.212	mg/L	0.2482	2.69%
Mg 285.213†	898173.2	16.45	mg/L	0.191	16.45	mg/L	0.191	1.16%
Mn 257.610†	18316.9	0.1602	mg/L	0.00110	0.1602	mg/L	0.00110	0.69%
Mo 202.031†	160.6	0.0086	mg/L	0.00009	0.0086	mg/L	0.00009	1.01%
Na 589.592†	3851369.7	116.0	mg/L	1.35	116.0	mg/L	1.35	1.16%
Ni 231.604†	295.0	0.0078	mg/L	0.00018	0.0078	mg/L	0.00018	2.34%
Pb 220.353†	9.8	0.0019	mg/L	0.00072	0.0019	mg/L	0.00072	38.87%
Sb 206.836†	15.4	0.0047	mg/L	0.00067	0.0047	mg/L	0.00067	14.40%
Se 196.026†	-3.2	-0.0019	mg/L	0.00447	-0.0019	mg/L	0.00447	233.90%
Sn 189.927†	-37.7	-0.0066	mg/L	0.00094	-0.0066	mg/L	0.00094	14.24%
Ti 337.279†	-6.2	-0.0001	mg/L	0.00025	-0.0001	mg/L	0.00025	403.68%
Tl 351.924†	4.1	0.0017	mg/L	0.00148	0.0017	mg/L	0.00148	86.73%
V 290.880†	53.0	0.0023	mg/L	0.00085	0.0023	mg/L	0.00085	37.58%
Zn 206.200†	369.2	-0.0012	mg/L	0.00005	-0.0012	mg/L	0.00005	4.32%
Zr 343.823†	94.9	0.0005	mg/L	0.00003	0.0005	mg/L	0.00003	7.44%

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Batch ID: AVIO 500
Sequence No.: 60 **Autosampler Location: 59**
Sample ID: 24E0941-02 **Date Collected: 5/27/2024 8:42:47 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 100

Mean Data: 24E0941-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	587745.6	92.8	%	1.10	92.8	%	1.10	1.19%
Y axial	2316033.0	85.6	%	1.17	85.6	%	1.17	1.36%
Ag 328.068†	-355.6	-0.0048	mg/L	0.00050	-0.0048	mg/L	0.00050	10.44%
Al 396.153†	620.2	0.0008	mg/L	0.00032	0.0008	mg/L	0.00032	42.91%
As 188.979†	-2.0	-0.0015	mg/L	0.00316	-0.0015	mg/L	0.00316	211.93%
B 208.889†	487.6	0.0606	mg/L	0.00092	0.0606	mg/L	0.00092	1.53%
Ba 233.527†	2419.1	0.0838	mg/L	0.00089	0.0838	mg/L	0.00089	1.06%
Be 313.107†	-1451.9	-0.0007	mg/L	0.00002	-0.0007	mg/L	0.00002	3.13%
Ca 317.933†	2346126.9	93.25	mg/L	0.767	93.25	mg/L	0.767	0.82%
Cd 228.802†	-11.7	-0.0004	mg/L	0.00032	-0.0004	mg/L	0.00032	83.11%
Co 228.616†	-32.2	-0.0013	mg/L	0.00025	-0.0013	mg/L	0.00025	19.43%
Cr 267.716†	3535.3	0.0661	mg/L	0.00030	0.0661	mg/L	0.00030	0.45%
Cu 327.393†	-278.0	-0.0016	mg/L	0.00041	-0.0016	mg/L	0.00041	26.36%
Fe 238.204†	299.6	0.0144	mg/L	0.00015	0.0144	mg/L	0.00015	1.05%
K 766.490†	130051.8	9.074	mg/L	0.1607	9.074	mg/L	0.1607	1.77%
Mg 285.213†	904701.0	16.57	mg/L	0.112	16.57	mg/L	0.112	0.67%
Mn 257.610†	2561.2	0.0224	mg/L	0.00029	0.0224	mg/L	0.00029	1.28%

Mo 202.031†	134.4	0.0072 mg/L	0.00040	0.0072 mg/L	0.00040	5.63%
Na 589.592†	5601497.4	168.7 mg/L	2.88	168.7 mg/L	2.88	1.71%
Ni 231.604†	304.3	0.0081 mg/L	0.00016	0.0081 mg/L	0.00016	1.93%
Pb 220.353†	9.2	0.0017 mg/L	0.00053	0.0017 mg/L	0.00053	30.52%
Sb 206.836†	14.5	0.0037 mg/L	0.00165	0.0037 mg/L	0.00165	44.68%
Se 196.026†	1.0	0.0006 mg/L	0.00481	0.0006 mg/L	0.00481	866.85%
Sn 189.927†	-33.8	-0.0059 mg/L	0.00045	-0.0059 mg/L	0.00045	7.57%
Ti 337.279†	-13.8	-0.0001 mg/L	0.00022	-0.0001 mg/L	0.00022	156.84%
Tl 351.924†	3.5	0.0015 mg/L	0.00269	0.0015 mg/L	0.00269	184.72%
V 290.880†	35.8	0.0021 mg/L	0.00163	0.0021 mg/L	0.00163	77.47%
Zn 206.200†	252.4	-0.0088 mg/L	0.00010	-0.0088 mg/L	0.00010	1.13%
Zr 343.823†	94.2	0.0005 mg/L	0.00024	0.0005 mg/L	0.00024	53.26%

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Batch ID: AVIO 500
Sequence No.: 61 **Autosampler Location: 60**
Sample ID: 24E1929-01 **Date Collected: 5/27/2024 8:49:16 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 100

Mean Data: 24E1929-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	590974.4	93.3	%	0.40	93.3	%	0.40	0.43%
Y axial	2344111.5	86.6	%	0.92	86.6	%	0.92	1.06%
Ag 328.068†	-259.4	-0.0053	mg/L	0.00055	-0.0053	mg/L	0.00055	10.43%
Al 396.153†	1048.8	0.0394	mg/L	0.00024	0.0394	mg/L	0.00024	0.60%
As 188.979†	-1.0	-0.0004	mg/L	0.00140	-0.0004	mg/L	0.00140	320.81%
B 208.889†	62.7	0.0077	mg/L	0.00061	0.0077	mg/L	0.00061	7.99%
Ba 233.527†	664.3	0.0230	mg/L	0.00021	0.0230	mg/L	0.00021	0.93%
Be 313.107†	-1529.9	-0.0008	mg/L	0.00001	-0.0008	mg/L	0.00001	1.45%
Ca 317.933†	368144.2	14.63	mg/L	0.079	14.63	mg/L	0.079	0.54%
Cd 228.802†	-12.8	-0.0005	mg/L	0.00006	-0.0005	mg/L	0.00006	12.69%
Co 228.616†	-32.6	-0.0014	mg/L	0.00006	-0.0014	mg/L	0.00006	4.65%
Cr 267.716†	40.6	0.0008	mg/L	0.00016	0.0008	mg/L	0.00016	20.32%
Cu 327.393†	-52.2	-0.0003	mg/L	0.00028	-0.0003	mg/L	0.00028	82.62%
Fe 238.204†	41743.7	2.008	mg/L	0.0091	2.008	mg/L	0.0091	0.46%
K 766.490†	80740.4	5.633	mg/L	0.0282	5.633	mg/L	0.0282	0.50%
Mg 285.213†	36068.4	0.6590	mg/L	0.00282	0.6590	mg/L	0.00282	0.43%
Mn 257.610†	10562.6	0.0924	mg/L	0.00050	0.0924	mg/L	0.00050	0.55%
Mo 202.031†	48.3	0.0026	mg/L	0.00066	0.0026	mg/L	0.00066	25.51%
Na 589.592†	6487375.2	195.3	mg/L	1.49	195.3	mg/L	1.49	0.76%
Ni 231.604†	-30.1	-0.0007	mg/L	0.00022	-0.0007	mg/L	0.00022	31.36%
Pb 220.353†	15.0	0.0028	mg/L	0.00073	0.0028	mg/L	0.00073	26.35%
Sb 206.836†	9.7	0.0032	mg/L	0.00113	0.0032	mg/L	0.00113	35.28%
Se 196.026†	0.7	0.0016	mg/L	0.00174	0.0016	mg/L	0.00174	106.89%
Sn 189.927†	-10.4	-0.0018	mg/L	0.00057	-0.0018	mg/L	0.00057	31.29%
Ti 337.279†	156.6	0.0016	mg/L	0.00034	0.0016	mg/L	0.00034	21.74%
Tl 351.924†	-5.4	-0.0018	mg/L	0.00064	-0.0018	mg/L	0.00064	35.16%
V 290.880†	67.1	0.0007	mg/L	0.00043	0.0007	mg/L	0.00043	62.40%
Zn 206.200†	225.2	-0.0123	mg/L	0.00005	-0.0123	mg/L	0.00005	0.38%
Zr 343.823†	114.4	0.0005	mg/L	0.00016	0.0005	mg/L	0.00016	33.29%

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Batch ID: AVIO 500
Sequence No.: 62 **Autosampler Location: 5**
Sample ID: SEQ-CCV@ 23J0975 **Date Collected: 5/27/2024 8:55:36 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 100

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	605844.4	95.6	%	0.40	95.6	%	0.40	0.42%

Y axial	2482594.1	91.7 %	1.14	91.7 %	1.14	1.24%
Ag 328.068†	102270.0	2.278 mg/L	0.0523	2.278 mg/L	0.0523	2.30%
QC value within limits for Ag 328.068 Recovery = 91.13%						
Al 396.153†	188616.2	7.429 mg/L	0.2056	7.429 mg/L	0.2056	2.77%
QC value less than the lower limit for Al 396.153 Recovery = 74.29%						
As 188.979†	7465.7	4.824 mg/L	0.1004	4.824 mg/L	0.1004	2.08%
QC value within limits for As 188.979 Recovery = 96.47%						
B 208.889†	39001.0	4.590 mg/L	0.0883	4.590 mg/L	0.0883	1.92%
QC value within limits for B 208.889 Recovery = 91.80%						
Ba 233.527†	138072.6	4.784 mg/L	0.0219	4.784 mg/L	0.0219	0.46%
QC value within limits for Ba 233.527 Recovery = 95.68%						
Be 313.107†	9294139.3	4.713 mg/L	0.0243	4.713 mg/L	0.0243	0.52%
QC value within limits for Be 313.107 Recovery = 94.27%						
Ca 317.933†	237240.8	9.429 mg/L	0.0815	9.429 mg/L	0.0815	0.86%
QC value within limits for Ca 317.933 Recovery = 94.29%						
Cd 228.802†	130968.4	4.888 mg/L	0.0494	4.888 mg/L	0.0494	1.01%
QC value within limits for Cd 228.802 Recovery = 97.76%						
Co 228.616†	117672.6	5.077 mg/L	0.0513	5.077 mg/L	0.0513	1.01%
QC value within limits for Co 228.616 Recovery = 101.55%						
Cr 267.716†	267320.1	4.999 mg/L	0.0577	4.999 mg/L	0.0577	1.15%
QC value within limits for Cr 267.716 Recovery = 99.98%						
Cu 327.393†	407966.8	4.786 mg/L	0.0513	4.786 mg/L	0.0513	1.07%
QC value within limits for Cu 327.393 Recovery = 95.73%						
Fe 238.204†	99913.7	4.869 mg/L	0.0616	4.869 mg/L	0.0616	1.26%
QC value within limits for Fe 238.204 Recovery = 97.37%						
K 766.490†	129841.4	9.059 mg/L	0.2334	9.059 mg/L	0.2334	2.58%
QC value within limits for K 766.490 Recovery = 90.59%						
Mg 285.213†	488066.4	8.938 mg/L	0.1409	8.938 mg/L	0.1409	1.58%
QC value less than the lower limit for Mg 285.213 Recovery = 89.38%						
Mn 257.610†	540658.2	4.728 mg/L	0.0632	4.728 mg/L	0.0632	1.34%
QC value within limits for Mn 257.610 Recovery = 94.55%						
Mo 202.031†	94041.5	5.024 mg/L	0.0588	5.024 mg/L	0.0588	1.17%
QC value within limits for Mo 202.031 Recovery = 100.48%						
Na 589.592†	301814.4	9.087 mg/L	0.2101	9.087 mg/L	0.2101	2.31%
QC value within limits for Na 589.592 Recovery = 90.87%						
Ni 231.604†	190057.7	5.038 mg/L	0.0510	5.038 mg/L	0.0510	1.01%
QC value within limits for Ni 231.604 Recovery = 100.77%						
Pb 220.353†	24072.1	4.556 mg/L	0.0929	4.556 mg/L	0.0929	2.04%
QC value within limits for Pb 220.353 Recovery = 91.12%						
Sb 206.836†	14944.8	4.887 mg/L	0.1056	4.887 mg/L	0.1056	2.16%
QC value within limits for Sb 206.836 Recovery = 97.74%						
Se 196.026†	7994.4	4.563 mg/L	0.0769	4.563 mg/L	0.0769	1.68%
QC value within limits for Se 196.026 Recovery = 91.26%						
Sn 189.927†	28379.9	4.982 mg/L	0.0961	4.982 mg/L	0.0961	1.93%
QC value within limits for Sn 189.927 Recovery = 99.63%						
Ti 337.279†	473172.9	4.746 mg/L	0.0343	4.746 mg/L	0.0343	0.72%
QC value within limits for Ti 337.279 Recovery = 94.92%						
Tl 351.924†	6042.7	2.537 mg/L	0.0526	2.537 mg/L	0.0526	2.07%
QC value within limits for Tl 351.924 Recovery = 101.49%						
V 290.880†	444391.0	4.971 mg/L	0.0558	4.971 mg/L	0.0558	1.12%
QC value within limits for V 290.880 Recovery = 99.42%						
Zn 206.200†	201763.3	5.123 mg/L	0.0539	5.123 mg/L	0.0539	1.05%
QC value within limits for Zn 206.200 Recovery = 102.46%						
Zr 343.823†	1069847.6	5.210 mg/L	0.0555	5.210 mg/L	0.0555	1.06%
QC value within limits for Zr 343.823 Recovery = 104.21%						

QC Failed. Continue with analysis.

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Batch ID: AVIO 500
Sequence No.: 63 **Autosampler Location: 1**
Sample ID: SEQ-CCB@ 23J0970 **Date Collected: 5/27/2024 9:01:40 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 200

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD

Y radial	604820.7	95.5 %	0.61	95.5 %	0.61	0.64%	
Y axial	2562953.6	94.7 %	0.65	94.7 %	0.65	0.69%	
Ag 328.068†	2.4	0.0000 mg/L	0.00059	0.0000 mg/L	0.00059	>999.9%	
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153†	0.5	-0.0001 mg/L	0.00117	-0.0001 mg/L	0.00117	>999.9%	
QC value within limits for Al 396.153 Recovery = Not calculated							
As 188.979†	-3.5	-0.0023 mg/L	0.00193	-0.0023 mg/L	0.00193	85.56%	
QC value within limits for As 188.979 Recovery = Not calculated							
B 208.889†	13.3	0.0016 mg/L	0.00023	0.0016 mg/L	0.00023	14.55%	
QC value within limits for B 208.889 Recovery = Not calculated							
Ba 233.527†	4.1	0.0001 mg/L	0.00007	0.0001 mg/L	0.00007	49.59%	
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	-1534.9	-0.0008 mg/L	0.00000	-0.0008 mg/L	0.00000	0.45%	
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933†	-165.3	-0.0066 mg/L	0.00094	-0.0066 mg/L	0.00094	14.25%	
QC value within limits for Ca 317.933 Recovery = Not calculated							
Cd 228.802†	-9.6	-0.0003 mg/L	0.00017	-0.0003 mg/L	0.00017	53.83%	
QC value within limits for Cd 228.802 Recovery = Not calculated							
Co 228.616†	-30.7	-0.0013 mg/L	0.00012	-0.0013 mg/L	0.00012	9.38%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	22.1	0.0004 mg/L	0.00021	0.0004 mg/L	0.00021	50.04%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 327.393†	43.7	0.0005 mg/L	0.00067	0.0005 mg/L	0.00067	131.46%	
QC value within limits for Cu 327.393 Recovery = Not calculated							
Fe 238.204†	59.9	0.0029 mg/L	0.00067	0.0029 mg/L	0.00067	23.55%	
QC value within limits for Fe 238.204 Recovery = Not calculated							
K 766.490†	257.5	0.0180 mg/L	0.00363	0.0180 mg/L	0.00363	20.20%	
QC value within limits for K 766.490 Recovery = Not calculated							
Mg 285.213†	59.1	0.0011 mg/L	0.00010	0.0011 mg/L	0.00010	8.99%	
QC value within limits for Mg 285.213 Recovery = Not calculated							
Mn 257.610†	-4.9	-0.0000 mg/L	0.00007	-0.0000 mg/L	0.00007	176.01%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	23.7	0.0013 mg/L	0.00017	0.0013 mg/L	0.00017	13.56%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592†	-3817.6	-0.1149 mg/L	0.00227	-0.1149 mg/L	0.00227	1.98%	
QC value within limits for Na 589.592 Recovery = Not calculated							
Ni 231.604†	-19.6	-0.0005 mg/L	0.00022	-0.0005 mg/L	0.00022	42.31%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
Pb 220.353†	16.3	0.0031 mg/L	0.00038	0.0031 mg/L	0.00038	12.22%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
Sb 206.836†	8.8	0.0029 mg/L	0.00091	0.0029 mg/L	0.00091	31.47%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	5.5	0.0031 mg/L	0.00137	0.0031 mg/L	0.00137	44.06%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Sn 189.927†	12.0	0.0021 mg/L	0.00016	0.0021 mg/L	0.00016	7.60%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Ti 337.279†	16.8	0.0002 mg/L	0.00033	0.0002 mg/L	0.00033	198.86%	
QC value within limits for Ti 337.279 Recovery = Not calculated							
Tl 351.924†	-3.1	-0.0013 mg/L	0.00247	-0.0013 mg/L	0.00247	193.96%	
QC value within limits for Tl 351.924 Recovery = Not calculated							
V 290.880†	-96.2	-0.0011 mg/L	0.00039	-0.0011 mg/L	0.00039	35.94%	
QC value within limits for V 290.880 Recovery = Not calculated							
Zn 206.200†	81.4	0.0021 mg/L	0.00020	0.0021 mg/L	0.00020	9.84%	
QC value within limits for Zn 206.200 Recovery = Not calculated							
Zr 343.823†	125.4	0.0006 mg/L	0.00005	0.0006 mg/L	0.00005	7.52%	

All analyte(s) passed QC.

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Batch ID: AVIO 500
Sequence No.: 64 **Autosampler Location: 61**
Sample ID: B375144-MS1 **Date Collected: 5/27/2024 9:08:01 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 100

Mean Data: B375144-MS1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	Sample RSD

Y radial	579196.8	91.4 %	0.40	91.4 %	0.40	0.43%
Y axial	2191140.1	81.0 %	0.99	81.0 %	0.99	1.22%
Ag 328.068†	83032.2	1.870 mg/L	0.0247	1.870 mg/L	0.0247	1.32%
Al 396.153†	45682.4	1.751 mg/L	0.0376	1.751 mg/L	0.0376	2.15%
As 188.979†	3110.1	2.011 mg/L	0.0247	2.011 mg/L	0.0247	1.23%
B 208.889†	33747.0	4.104 mg/L	0.0497	4.104 mg/L	0.0497	1.21%
Ba 233.527†	59206.7	2.051 mg/L	0.0212	2.051 mg/L	0.0212	1.03%
Be 313.107†	3689036.2	1.871 mg/L	0.0081	1.871 mg/L	0.0081	0.43%
Ca 317.933†	2337872.4	92.92 mg/L	0.434	92.92 mg/L	0.434	0.47%
Cd 228.802†	55881.1	2.086 mg/L	0.0132	2.086 mg/L	0.0132	0.63%
Co 228.616†	44911.4	1.938 mg/L	0.0245	1.938 mg/L	0.0245	1.26%
Cr 267.716†	104976.7	1.963 mg/L	0.0137	1.963 mg/L	0.0137	0.70%
Cu 327.393†	340655.9	3.975 mg/L	0.0126	3.975 mg/L	0.0126	0.32%
Fe 238.204†	315425.2	15.20 mg/L	0.059	15.20 mg/L	0.059	0.39%
K 766.490†	410013.5	28.61 mg/L	0.663	28.61 mg/L	0.663	2.32%
Mg 285.213†	1429515.9	26.21 mg/L	0.125	26.21 mg/L	0.125	0.48%
Mn 257.610†	209850.1	1.835 mg/L	0.0078	1.835 mg/L	0.0078	0.42%
Mo 202.031†	37818.4	2.020 mg/L	0.0235	2.020 mg/L	0.0235	1.16%
Na 589.592†	16821989.5	506.5 mg/L	4.31	506.5 mg/L	4.31	0.85%
Ni 231.604†	71830.3	1.904 mg/L	0.0144	1.904 mg/L	0.0144	0.76%
Pb 220.353†	9202.4	1.739 mg/L	0.0217	1.739 mg/L	0.0217	1.25%
Sb 206.836†	6330.8	2.071 mg/L	0.0196	2.071 mg/L	0.0196	0.95%
Se 196.026†	3513.6	2.014 mg/L	0.0267	2.014 mg/L	0.0267	1.32%
Sn 189.927†	11137.5	1.955 mg/L	0.0233	1.955 mg/L	0.0233	1.19%
Ti 337.279†	188037.1	1.887 mg/L	0.0026	1.887 mg/L	0.0026	0.14%
Tl 351.924†	5178.8	2.110 mg/L	0.0326	2.110 mg/L	0.0326	1.55%
V 290.880†	178801.6	2.002 mg/L	0.0098	2.002 mg/L	0.0098	0.49%
Zn 206.200†	347025.0	8.733 mg/L	0.0897	8.733 mg/L	0.0897	1.03%
Zr 343.823†	253.3	0.0006 mg/L	0.00003	0.0006 mg/L	0.00003	4.60%

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Batch ID: AVIO 500
Sequence No.: 65 **Autosampler Location: 62**
Sample ID: B375144-DUP1 **Date Collected: 5/27/2024 9:15:11 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 200

Mean Data: B375144-DUP1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	567915.7	89.6	%	0.36	89.6	%	0.36	0.40%
Y axial	2152399.4	79.5	%	1.11	79.5	%	1.11	1.40%
Ag 328.068†	-310.6	-0.0041	mg/L	0.00070	-0.0041	mg/L	0.00070	16.92%
Al 396.153†	1199.6	0.0268	mg/L	0.00037	0.0268	mg/L	0.00037	1.37%
As 188.979†	-1.0	-0.0008	mg/L	0.00384	-0.0008	mg/L	0.00384	464.24%
B 208.889†	2275.3	0.2833	mg/L	0.00268	0.2833	mg/L	0.00268	0.95%
Ba 233.527†	2210.4	0.0766	mg/L	0.00176	0.0766	mg/L	0.00176	2.30%
Be 313.107†	-1216.4	-0.0006	mg/L	0.00001	-0.0006	mg/L	0.00001	1.37%
Ca 317.933†	2067798.8	82.19	mg/L	0.321	82.19	mg/L	0.321	0.39%
Cd 228.802†	-12.1	-0.0004	mg/L	0.00030	-0.0004	mg/L	0.00030	71.92%
Co 228.616†	10.4	0.0006	mg/L	0.00015	0.0006	mg/L	0.00015	28.09%
Cr 267.716†	99.8	0.0019	mg/L	0.00018	0.0019	mg/L	0.00018	9.87%
Cu 327.393†	65.6	0.0023	mg/L	0.00018	0.0023	mg/L	0.00018	8.01%
Fe 238.204†	8888.8	0.4277	mg/L	0.00158	0.4277	mg/L	0.00158	0.37%
K 766.490†	161284.0	11.25	mg/L	0.232	11.25	mg/L	0.232	2.06%
Mg 285.213†	659388.6	12.07	mg/L	0.143	12.07	mg/L	0.143	1.18%
Mn 257.610†	2480.2	0.0217	mg/L	0.00012	0.0217	mg/L	0.00012	0.54%
Mo 202.031†	399.2	0.0213	mg/L	0.00045	0.0213	mg/L	0.00045	2.09%
Na 589.592†	16917834.9	509.4	mg/L	6.57	509.4	mg/L	6.57	1.29%
Ni 231.604†	42.7	0.0011	mg/L	0.00030	0.0011	mg/L	0.00030	25.93%
Pb 220.353†	17.6	0.0034	mg/L	0.00121	0.0034	mg/L	0.00121	35.78%
Sb 206.836†	12.5	0.0044	mg/L	0.00240	0.0044	mg/L	0.00240	54.33%
Se 196.026†	8.5	0.0051	mg/L	0.00362	0.0051	mg/L	0.00362	70.86%
Sn 189.927†	-28.0	-0.0049	mg/L	0.00041	-0.0049	mg/L	0.00041	8.40%
Ti 337.279†	87.8	0.0009	mg/L	0.00031	0.0009	mg/L	0.00031	34.73%
Tl 351.924†	1.5	0.0007	mg/L	0.00411	0.0007	mg/L	0.00411	582.30%
V 290.880†	458.9	0.0063	mg/L	0.00101	0.0063	mg/L	0.00101	15.88%

Zn 206.200†	200331.6	5.016	mg/L	0.0993	5.016	mg/L	0.0993	1.98%
Zr 343.823†	72.6	0.0003	mg/L	0.00027	0.0003	mg/L	0.00027	81.82%

Batch ID: AVIO 500
Sequence No.: 66 **Autosampler Location: 63**
Sample ID: 24E2149-01 **Date Collected: 5/27/2024 9:21:36 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 100

Mean Data: 24E2149-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	567102.9	89.5	%	0.78	89.5	%	0.78	0.87%
Y axial	2191439.4	81.0	%	0.48	81.0	%	0.48	0.59%
Ag 328.068†	-327.5	-0.0045	mg/L	0.00042	-0.0045	mg/L	0.00042	9.31%
Al 396.153†	1220.9	0.0280	mg/L	0.00056	0.0280	mg/L	0.00056	2.01%
As 188.979†	-4.6	-0.0032	mg/L	0.00501	-0.0032	mg/L	0.00501	156.46%
B 208.889†	2238.8	0.2788	mg/L	0.00267	0.2788	mg/L	0.00267	0.96%
Ba 233.527†	2163.1	0.0749	mg/L	0.00092	0.0749	mg/L	0.00092	1.22%
Be 313.107†	-1180.2	-0.0006	mg/L	0.00003	-0.0006	mg/L	0.00003	5.20%
Ca 317.933†	2040820.7	81.11	mg/L	0.180	81.11	mg/L	0.180	0.22%
Cd 228.802†	-11.7	-0.0003	mg/L	0.00016	-0.0003	mg/L	0.00016	47.29%
Co 228.616†	5.0	0.0003	mg/L	0.00013	0.0003	mg/L	0.00013	39.44%
Cr 267.716†	90.3	0.0017	mg/L	0.00035	0.0017	mg/L	0.00035	20.57%
Cu 327.393†	84.8	0.0025	mg/L	0.00006	0.0025	mg/L	0.00006	2.42%
Fe 238.204†	8868.1	0.4267	mg/L	0.00063	0.4267	mg/L	0.00063	0.15%
K 766.490†	163756.3	11.43	mg/L	0.560	11.43	mg/L	0.560	4.90%
Mg 285.213†	654738.9	11.99	mg/L	0.164	11.99	mg/L	0.164	1.37%
Mn 257.610†	2468.2	0.0216	mg/L	0.00001	0.0216	mg/L	0.00001	0.06%
Mo 202.031†	383.0	0.0205	mg/L	0.00034	0.0205	mg/L	0.00034	1.65%
Na 589.592†	17062245.4	513.7	mg/L	8.81	513.7	mg/L	8.81	1.72%
Ni 231.604†	56.9	0.0015	mg/L	0.00023	0.0015	mg/L	0.00023	15.27%
Pb 220.353†	10.2	0.0020	mg/L	0.00126	0.0020	mg/L	0.00126	64.07%
Sb 206.836†	9.6	0.0035	mg/L	0.00153	0.0035	mg/L	0.00153	44.26%
Se 196.026†	1.6	0.0012	mg/L	0.00283	0.0012	mg/L	0.00283	239.61%
Sn 189.927†	-30.9	-0.0054	mg/L	0.00089	-0.0054	mg/L	0.00089	16.36%
Ti 337.279†	72.6	0.0007	mg/L	0.00014	0.0007	mg/L	0.00014	19.83%
Tl 351.924†	-6.6	-0.0026	mg/L	0.00269	-0.0026	mg/L	0.00269	103.72%
V 290.880†	369.7	0.0053	mg/L	0.00019	0.0053	mg/L	0.00019	3.52%
Zn 206.200†	195640.5	4.897	mg/L	0.0139	4.897	mg/L	0.0139	0.28%
Zr 343.823†	110.2	0.0005	mg/L	0.00003	0.0005	mg/L	0.00003	6.45%

Batch ID: AVIO 500
Sequence No.: 67 **Autosampler Location: 64**
Sample ID: 24E2149-02 **Date Collected: 5/27/2024 9:28:00 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 100

Mean Data: 24E2149-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	599467.6	94.6	%	0.19	94.6	%	0.19	0.20%
Y axial	2284075.0	84.4	%	1.87	84.4	%	1.87	2.22%
Ag 328.068†	-234.6	-0.0052	mg/L	0.00085	-0.0052	mg/L	0.00085	16.21%
Al 396.153†	169.6	0.0068	mg/L	0.00247	0.0068	mg/L	0.00247	36.26%
As 188.979†	-4.9	-0.0034	mg/L	0.00095	-0.0034	mg/L	0.00095	27.54%
B 208.889†	5160.8	0.6452	mg/L	0.00984	0.6452	mg/L	0.00984	1.52%
Ba 233.527†	579.0	0.0201	mg/L	0.00051	0.0201	mg/L	0.00051	2.55%
Be 313.107†	-1663.4	-0.0009	mg/L	0.00002	-0.0009	mg/L	0.00002	2.16%
Ca 317.933†	7423.6	0.2951	mg/L	0.00138	0.2951	mg/L	0.00138	0.47%
Cd 228.802†	-10.0	-0.0003	mg/L	0.00034	-0.0003	mg/L	0.00034	118.26%
Co 228.616†	-25.3	-0.0011	mg/L	0.00023	-0.0011	mg/L	0.00023	21.15%

Cr 267.716†	36.2	0.0006 mg/L	0.00018	0.0006 mg/L	0.00018	30.00%
Cu 327.393†	-76.1	-0.0009 mg/L	0.00062	-0.0009 mg/L	0.00062	70.29%
Fe 238.204†	4757.1	0.2289 mg/L	0.00139	0.2289 mg/L	0.00139	0.61%
K 766.490†	14991.9	1.046 mg/L	0.0278	1.046 mg/L	0.0278	2.65%
Mg 285.213†	2903.5	0.0533 mg/L	0.00012	0.0533 mg/L	0.00012	0.23%
Mn 257.610†	21219.2	0.1855 mg/L	0.00059	0.1855 mg/L	0.00059	0.32%
Mo 202.031†	34.9	0.0019 mg/L	0.00036	0.0019 mg/L	0.00036	19.52%
Na 589.592†	17314926.9	521.3 mg/L	9.08	521.3 mg/L	9.08	1.74%
Ni 231.604†	-29.4	-0.0008 mg/L	0.00040	-0.0008 mg/L	0.00040	50.76%
Pb 220.353†	11.9	0.0022 mg/L	0.00107	0.0022 mg/L	0.00107	48.40%
Sb 206.836†	7.2	0.0024 mg/L	0.00105	0.0024 mg/L	0.00105	44.58%
Se 196.026†	4.6	0.0027 mg/L	0.00180	0.0027 mg/L	0.00180	67.88%
Sn 189.927†	8.1	0.0014 mg/L	0.00035	0.0014 mg/L	0.00035	24.57%
Ti 337.279†	13.1	0.0001 mg/L	0.00007	0.0001 mg/L	0.00007	50.24%
Tl 351.924†	1.5	0.0007 mg/L	0.00275	0.0007 mg/L	0.00275	408.92%
V 290.880†	191.7	0.0021 mg/L	0.00037	0.0021 mg/L	0.00037	17.41%
Zn 206.200†	464.0	-0.0363 mg/L	0.00060	-0.0363 mg/L	0.00060	1.65%
Zr 343.823†	127.4	0.0006 mg/L	0.00028	0.0006 mg/L	0.00028	45.80%

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Batch ID: AVIO 500
Sequence No.: 68
Sample ID: RINSE
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 100

Autosampler Location: 7
Date Collected: 5/27/2024 9:34:28 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: RINSE

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	608989.3	96.1	%	0.54	96.1	%	0.54	0.56%
Y axial	2647075.9	97.8	%	0.45	97.8	%	0.45	0.46%
Ag 328.068†	-204.4	-0.0046	mg/L	0.00053	-0.0046	mg/L	0.00053	11.66%
Al 396.153†	18.2	0.0007	mg/L	0.00140	0.0007	mg/L	0.00140	198.40%
As 188.979†	-3.8	-0.0025	mg/L	0.00101	-0.0025	mg/L	0.00101	40.95%
B 208.889†	15.4	0.0019	mg/L	0.00044	0.0019	mg/L	0.00044	23.52%
Ba 233.527†	4.5	0.0002	mg/L	0.00007	0.0002	mg/L	0.00007	46.95%
Be 313.107†	-1573.9	-0.0008	mg/L	0.00002	-0.0008	mg/L	0.00002	2.27%
Ca 317.933†	-113.3	-0.0045	mg/L	0.00076	-0.0045	mg/L	0.00076	16.78%
Cd 228.802†	-10.8	-0.0003	mg/L	0.00015	-0.0003	mg/L	0.00015	44.51%
Co 228.616†	-28.7	-0.0012	mg/L	0.00023	-0.0012	mg/L	0.00023	18.34%
Cr 267.716†	17.2	0.0003	mg/L	0.00019	0.0003	mg/L	0.00019	59.15%
Cu 327.393†	3.7	0.0000	mg/L	0.00058	0.0000	mg/L	0.00058	>999.9%
Fe 238.204†	101.9	0.0049	mg/L	0.00035	0.0049	mg/L	0.00035	7.26%
K 766.490†	429.1	0.0299	mg/L	0.00355	0.0299	mg/L	0.00355	11.84%
Mg 285.213†	75.5	0.0014	mg/L	0.00011	0.0014	mg/L	0.00011	8.01%
Mn 257.610†	4.3	0.0000	mg/L	0.00008	0.0000	mg/L	0.00008	212.75%
Mo 202.031†	13.6	0.0007	mg/L	0.00065	0.0007	mg/L	0.00065	90.08%
Na 589.592†	9760.6	0.2939	mg/L	0.00435	0.2939	mg/L	0.00435	1.48%
Ni 231.604†	-14.3	-0.0004	mg/L	0.00019	-0.0004	mg/L	0.00019	51.78%
Pb 220.353†	8.0	0.0015	mg/L	0.00077	0.0015	mg/L	0.00077	50.70%
Sb 206.836†	4.1	0.0013	mg/L	0.00096	0.0013	mg/L	0.00096	72.32%
Se 196.026†	6.3	0.0036	mg/L	0.00140	0.0036	mg/L	0.00140	38.59%
Sn 189.927†	8.0	0.0014	mg/L	0.00028	0.0014	mg/L	0.00028	19.66%
Ti 337.279†	20.9	0.0002	mg/L	0.00014	0.0002	mg/L	0.00014	66.98%
Tl 351.924†	-2.4	-0.0010	mg/L	0.00157	-0.0010	mg/L	0.00157	159.09%
V 290.880†	-101.1	-0.0011	mg/L	0.00012	-0.0011	mg/L	0.00012	10.90%
Zn 206.200†	136.6	0.0034	mg/L	0.00014	0.0034	mg/L	0.00014	4.18%
Zr 343.823†	86.0	0.0004	mg/L	0.00017	0.0004	mg/L	0.00017	40.32%

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Batch ID: AVIO 500
Sequence No.: 69
Sample ID: B375186-BLK1
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 100

Autosampler Location: 65
Date Collected: 5/27/2024 9:40:41 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: B375186-BLK1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	549364.8	86.7	%	2.45	86.7	%	2.45	2.82%
Y axial	2038660.8	75.3	%	2.94	75.3	%	2.94	3.90%
Ag 328.068†	-233.6	-0.0052	mg/L	0.00068	-0.0052	mg/L	0.00068	13.16%
Al 396.153†	3081.0	0.1268	mg/L	0.00703	0.1268	mg/L	0.00703	5.54%
As 188.979†	-17.8	-0.0117	mg/L	0.00392	-0.0117	mg/L	0.00392	33.46%
B 208.889†	1750.2	0.2185	mg/L	0.01077	0.2185	mg/L	0.01077	4.93%
Ba 233.527†	113.9	0.0039	mg/L	0.00035	0.0039	mg/L	0.00035	8.78%
Be 313.107†	-1335.2	-0.0007	mg/L	0.00004	-0.0007	mg/L	0.00004	5.42%
Ca 317.933†	16811.6	0.6682	mg/L	0.00548	0.6682	mg/L	0.00548	0.82%
Cd 228.802†	-11.0	-0.0001	mg/L	0.00014	-0.0001	mg/L	0.00014	143.71%
Co 228.616†	-15.8	-0.0007	mg/L	0.00011	-0.0007	mg/L	0.00011	15.90%
Cr 267.716†	55.2	0.0010	mg/L	0.00020	0.0010	mg/L	0.00020	18.96%
Cu 327.393†	19.5	0.0002	mg/L	0.00072	0.0002	mg/L	0.00072	291.05%
Fe 238.204†	670.1	0.0322	mg/L	0.00093	0.0322	mg/L	0.00093	2.87%
K 766.490†	8298.7	0.5790	mg/L	0.02048	0.5790	mg/L	0.02048	3.54%
Mg 285.213†	21021.3	0.3855	mg/L	0.00623	0.3855	mg/L	0.00623	1.62%
Mn 257.610†	140.9	0.0012	mg/L	0.00010	0.0012	mg/L	0.00010	8.16%
Mo 202.031†	105.8	0.0057	mg/L	0.00023	0.0057	mg/L	0.00023	4.14%
Na 589.592†	Saturated3							
Ni 231.604†	-28.9	-0.0008	mg/L	0.00025	-0.0008	mg/L	0.00025	32.49%
Pb 220.353†	20.0	0.0038	mg/L	0.00063	0.0038	mg/L	0.00063	16.52%
Sb 206.836†	14.2	0.0047	mg/L	0.00292	0.0047	mg/L	0.00292	61.85%
Se 196.026†	21.1	0.0121	mg/L	0.00335	0.0121	mg/L	0.00335	27.69%
Sn 189.927†	18.1	0.0032	mg/L	0.00055	0.0032	mg/L	0.00055	17.18%
Ti 337.279†	229.8	0.0023	mg/L	0.00020	0.0023	mg/L	0.00020	8.65%
Tl 351.924†	-5.8	-0.0023	mg/L	0.00417	-0.0023	mg/L	0.00417	177.81%
V 290.880†	281.3	0.0032	mg/L	0.00061	0.0032	mg/L	0.00061	19.20%
Zn 206.200†	272.8	0.0069	mg/L	0.00017	0.0069	mg/L	0.00017	2.51%
Zr 343.823†	127.4	0.0006	mg/L	0.00006	0.0006	mg/L	0.00006	10.44%

Batch ID: AVIO 500
Sequence No.: 70 **Autosampler Location: 66**
Sample ID: B375186-BS1 **Date Collected: 5/27/2024 9:46:53 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 100

Mean Data: B375186-BS1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	554017.0	87.4	%	1.13	87.4	%	1.13	1.29%
Y axial	2112723.6	78.1	%	0.71	78.1	%	0.71	0.91%
Ag 328.068†	23630.0	0.5310	mg/L	0.00690	0.5310	mg/L	0.00690	1.30%
Al 396.153†	13784.5	0.5396	mg/L	0.02765	0.5396	mg/L	0.02765	5.12%
As 188.979†	807.5	0.5221	mg/L	0.00136	0.5221	mg/L	0.00136	0.26%
B 208.889†	9399.3	1.146	mg/L	0.0140	1.146	mg/L	0.0140	1.22%
Ba 233.527†	14884.2	0.5157	mg/L	0.01835	0.5157	mg/L	0.01835	3.56%
Be 313.107†	920147.7	0.4665	mg/L	0.00296	0.4665	mg/L	0.00296	0.63%
Ca 317.933†	114017.4	4.532	mg/L	0.0192	4.532	mg/L	0.0192	0.42%
Cd 228.802†	14733.2	0.5502	mg/L	0.00519	0.5502	mg/L	0.00519	0.94%
Co 228.616†	11358.6	0.4900	mg/L	0.00570	0.4900	mg/L	0.00570	1.16%
Cr 267.716†	27038.4	0.5056	mg/L	0.00466	0.5056	mg/L	0.00466	0.92%
Cu 327.393†	86384.9	1.008	mg/L	0.0119	1.008	mg/L	0.0119	1.18%
Fe 238.204†	79413.2	3.827	mg/L	0.0495	3.827	mg/L	0.0495	1.29%
K 766.490†	84051.2	5.864	mg/L	0.2689	5.864	mg/L	0.2689	4.58%
Mg 285.213†	225141.6	4.132	mg/L	0.1061	4.132	mg/L	0.1061	2.57%
Mn 257.610†	53265.9	0.4659	mg/L	0.00605	0.4659	mg/L	0.00605	1.30%
Mo 202.031†	9702.8	0.5183	mg/L	0.00617	0.5183	mg/L	0.00617	1.19%
Na 589.592†	34578379.7	1041	mg/L	12.07	1041	mg/L	12.07	1.16%
Ni 231.604†	18263.6	0.4842	mg/L	0.00382	0.4842	mg/L	0.00382	0.79%
Pb 220.353†	2370.1	0.4480	mg/L	0.00648	0.4480	mg/L	0.00648	1.45%
Sb 206.836†	1617.2	0.5289	mg/L	0.00873	0.5289	mg/L	0.00873	1.65%

Se 196.026†	968.7	0.5551 mg/L	0.01274	0.5551 mg/L	0.01274	2.30%
Sn 189.927†	2835.3	0.4977 mg/L	0.00506	0.4977 mg/L	0.00506	1.02%
Ti 337.279†	48493.3	0.4866 mg/L	0.00210	0.4866 mg/L	0.00210	0.43%
Tl 351.924†	1335.0	0.5439 mg/L	0.00902	0.5439 mg/L	0.00902	1.66%
V 290.880†	45651.3	0.5108 mg/L	0.00610	0.5108 mg/L	0.00610	1.19%
Zn 206.200†	44124.1	1.022 mg/L	0.0098	1.022 mg/L	0.0098	0.96%
Zr 343.823†	165.0	0.0006 mg/L	0.00001	0.0006 mg/L	0.00001	1.38%

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Batch ID: AVIO 500
Sequence No.: 71 **Autosampler Location: 67**
Sample ID: B375186-BSD1 **Date Collected: 5/27/2024 9:54:07 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 200

Mean Data: B375186-BSD1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	564771.4	89.1	%	0.90	89.1	%	0.90	1.01%
Y axial	2095267.8	77.4	%	0.15	77.4	%	0.15	0.19%
Ag 328.068†	23842.2	0.5358	mg/L	0.00140	0.5358	mg/L	0.00140	0.26%
Al 396.153†	14847.7	0.5836	mg/L	0.01604	0.5836	mg/L	0.01604	2.75%
As 188.979†	807.2	0.5219	mg/L	0.00965	0.5219	mg/L	0.00965	1.85%
B 208.889†	9427.9	1.149	mg/L	0.0077	1.149	mg/L	0.0077	0.67%
Ba 233.527†	15440.5	0.5350	mg/L	0.00768	0.5350	mg/L	0.00768	1.44%
Be 313.107†	912172.9	0.4625	mg/L	0.00151	0.4625	mg/L	0.00151	0.33%
Ca 317.933†	113503.4	4.511	mg/L	0.0086	4.511	mg/L	0.0086	0.19%
Cd 228.802†	14787.9	0.5523	mg/L	0.00221	0.5523	mg/L	0.00221	0.40%
Co 228.616†	11374.2	0.4908	mg/L	0.00151	0.4908	mg/L	0.00151	0.31%
Cr 267.716†	27211.9	0.5089	mg/L	0.00258	0.5089	mg/L	0.00258	0.51%
Cu 327.393†	87563.5	1.021	mg/L	0.0081	1.021	mg/L	0.0081	0.80%
Fe 238.204†	80079.4	3.859	mg/L	0.0257	3.859	mg/L	0.0257	0.67%
K 766.490†	86030.3	6.002	mg/L	0.1643	6.002	mg/L	0.1643	2.74%
Mg 285.213†	229138.4	4.206	mg/L	0.0610	4.206	mg/L	0.0610	1.45%
Mn 257.610†	53472.5	0.4677	mg/L	0.00281	0.4677	mg/L	0.00281	0.60%
Mo 202.031†	9684.3	0.5174	mg/L	0.00235	0.5174	mg/L	0.00235	0.45%
Na 589.592†	35338566.5	1064	mg/L	14.00	1064	mg/L	14.00	1.32%
Ni 231.604†	18404.9	0.4879	mg/L	0.00289	0.4879	mg/L	0.00289	0.59%
Pb 220.353†	2363.3	0.4467	mg/L	0.00149	0.4467	mg/L	0.00149	0.33%
Sb 206.836†	1616.1	0.5285	mg/L	0.00569	0.5285	mg/L	0.00569	1.08%
Se 196.026†	963.5	0.5521	mg/L	0.00689	0.5521	mg/L	0.00689	1.25%
Sn 189.927†	2831.3	0.4970	mg/L	0.00207	0.4970	mg/L	0.00207	0.42%
Ti 337.279†	47972.7	0.4814	mg/L	0.00093	0.4814	mg/L	0.00093	0.19%
Tl 351.924†	1337.9	0.5450	mg/L	0.00338	0.5450	mg/L	0.00338	0.62%
V 290.880†	45982.3	0.5145	mg/L	0.00274	0.5145	mg/L	0.00274	0.53%
Zn 206.200†	44547.0	1.030	mg/L	0.0068	1.030	mg/L	0.0068	0.66%
Zr 343.823†	162.6	0.0006	mg/L	0.00004	0.0006	mg/L	0.00004	6.85%

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Batch ID: AVIO 500
Sequence No.: 72 **Autosampler Location: 68**
Sample ID: B375186-MS1 **Date Collected: 5/27/2024 10:01:21 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 200

Mean Data: B375186-MS1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	550823.8	86.9	%	0.51	86.9	%	0.51	0.58%
Y axial	2038791.7	75.3	%	1.35	75.3	%	1.35	1.79%
Ag 328.068†	3305.1	0.0794	mg/L	0.00104	0.0794	mg/L	0.00104	1.32%
Al 396.153†	68862.4	2.794	mg/L	0.0626	2.794	mg/L	0.0626	2.24%
As 188.979†	837.7	0.5429	mg/L	0.01282	0.5429	mg/L	0.01282	2.36%
B 208.889†	9455.3	1.152	mg/L	0.0265	1.152	mg/L	0.0265	2.30%

Ba 233.527†	49847.1	1.727 mg/L	0.0505	1.727 mg/L	0.0505	2.93%
Be 313.107†	952726.2	0.4831 mg/L	0.00229	0.4831 mg/L	0.00229	0.48%
Ca 317.933†	2213953.0	88.00 mg/L	0.436	88.00 mg/L	0.436	0.50%
Cd 228.802†	18717.3	0.7024 mg/L	0.01521	0.7024 mg/L	0.01521	2.17%
Co 228.616†	12156.8	0.5261 mg/L	0.01157	0.5261 mg/L	0.01157	2.20%
Cr 267.716†	27727.6	0.5165 mg/L	0.00331	0.5165 mg/L	0.00331	0.64%
Cu 327.393†	94945.1	1.109 mg/L	0.0093	1.109 mg/L	0.0093	0.83%
Fe 238.204†	310757.0	14.96 mg/L	0.095	14.96 mg/L	0.095	0.64%
K 766.490†	153860.1	10.73 mg/L	0.196	10.73 mg/L	0.196	1.83%
Mg 285.213†	388921.9	7.121 mg/L	0.0774	7.121 mg/L	0.0774	1.09%
Mn 257.610†	637893.8	5.578 mg/L	0.0338	5.578 mg/L	0.0338	0.61%
Mo 202.031†	9810.4	0.5241 mg/L	0.01083	0.5241 mg/L	0.01083	2.07%
Na 589.592†	Saturated2					
Ni 231.604†	21267.3	0.5636 mg/L	0.00577	0.5636 mg/L	0.00577	1.02%
Pb 220.353†	8549.1	1.614 mg/L	0.0343	1.614 mg/L	0.0343	2.12%
Sb 206.836†	1675.7	0.5479 mg/L	0.01214	0.5479 mg/L	0.01214	2.22%
Se 196.026†	981.9	0.5662 mg/L	0.02274	0.5662 mg/L	0.02274	4.02%
Sn 189.927†	2848.1	0.5000 mg/L	0.01008	0.5000 mg/L	0.01008	2.02%
Ti 337.279†	49370.5	0.4954 mg/L	0.00028	0.4954 mg/L	0.00028	0.06%
Tl 351.924†	1403.1	0.5738 mg/L	0.01603	0.5738 mg/L	0.01603	2.79%
V 290.880†	47142.2	0.5271 mg/L	0.00376	0.5271 mg/L	0.00376	0.71%
Zn 206.200†	3333202.5	84.24 mg/L	0.330	84.24 mg/L	0.330	0.39%
Zr 343.823†	215.6	0.0004 mg/L	0.00011	0.0004 mg/L	0.00011	26.41%

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Batch ID: AVIO 500
Sequence No.: 73 **Autosampler Location: 69**
Sample ID: B375186-PS1 **Date Collected: 5/27/2024 10:08:22 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 200

Mean Data: B375186-PS1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	544976.1	86.0	%	0.52	86.0	%	0.52	0.60%
Y axial	2057887.3	76.0	%	1.62	76.0	%	1.62	2.13%
Ag 328.068†	7865.7	0.1911	mg/L	0.00687	0.1911	mg/L	0.00687	3.60%
Al 396.153†	120788.6	4.837	mg/L	0.1404	4.837	mg/L	0.1404	2.90%
As 188.979†	3231.7	2.091	mg/L	0.5436	2.091	mg/L	0.5436	26.00%
B 208.889†	32510.0	3.934	mg/L	0.8700	3.934	mg/L	0.8700	22.11%
Ba 233.527†	122544.6	4.246	mg/L	0.1451	4.246	mg/L	0.1451	3.42%
Be 313.107†	5810088.5	2.949	mg/L	0.1664	2.949	mg/L	0.1664	5.64%
Ca 317.933†	2605356.1	103.6	mg/L	1.33	103.6	mg/L	1.33	1.29%
Cd 228.802†	69477.9	2.605	mg/L	0.5625	2.605	mg/L	0.5625	21.59%
Co 228.616†	50941.6	2.199	mg/L	0.4935	2.199	mg/L	0.4935	22.44%
Cr 267.716†	120912.8	2.259	mg/L	0.5203	2.259	mg/L	0.5203	23.03%
Cu 327.393†	402801.9	4.700	mg/L	1.1091	4.700	mg/L	1.1091	23.59%
Fe 238.204†	705932.4	33.99	mg/L	1.456	33.99	mg/L	1.456	4.28%
K 766.490†	470520.3	32.83	mg/L	1.106	32.83	mg/L	1.106	3.37%
Mg 285.213†	1418298.6	26.02	mg/L	1.266	26.02	mg/L	1.266	4.87%
Mn 257.610†	875156.1	7.653	mg/L	0.1674	7.653	mg/L	0.1674	2.19%
Mo 202.031†	42947.7	2.294	mg/L	0.5192	2.294	mg/L	0.5192	22.63%
Na 589.592†	34933983.9	1052	mg/L	16.23	1052	mg/L	16.23	1.54%
Ni 231.604†	83086.6	2.203	mg/L	0.4786	2.203	mg/L	0.4786	21.73%
Pb 220.353†	14943.9	2.823	mg/L	0.4180	2.823	mg/L	0.4180	14.81%
Sb 206.836†	6460.6	2.114	mg/L	0.5441	2.114	mg/L	0.5441	25.74%
Se 196.026†	3755.6	2.160	mg/L	0.5224	2.160	mg/L	0.5224	24.18%
Sn 189.927†	11113.2	1.953	mg/L	0.5279	1.953	mg/L	0.5279	27.04%
Ti 337.279†	299957.9	3.010	mg/L	0.1861	3.010	mg/L	0.1861	6.18%
Tl 351.924†	5464.5	2.227	mg/L	0.4328	2.227	mg/L	0.4328	19.43%
V 290.880†	206123.9	2.306	mg/L	0.5305	2.306	mg/L	0.5305	23.01%
Zn 206.200†	3274886.0	82.68	mg/L	1.372	82.68	mg/L	1.372	1.66%
Zr 343.823†	271.7	-0.0001	mg/L	0.00011	-0.0001	mg/L	0.00011	83.63%

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Batch ID: AVIO 500
Sequence No.: 74 **Autosampler Location: 70**

Sample ID: B375186-SRL1
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 200

Date Collected: 5/27/2024 10:15:31 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: B375186-SRL1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	561509.1	88.6	%	0.68	88.6	%	0.68	0.77%
Y axial	2196106.9	81.1	%	0.82	81.1	%	0.82	1.01%
Ag 328.068†	-202.4	-0.0040	mg/L	0.00057	-0.0040	mg/L	0.00057	14.33%
Al 396.153†	8961.0	0.3660	mg/L	0.00367	0.3660	mg/L	0.00367	1.00%
As 188.979†	-4.8	-0.0029	mg/L	0.00686	-0.0029	mg/L	0.00686	236.08%
B 208.889†	319.3	0.0399	mg/L	0.00046	0.0399	mg/L	0.00046	1.17%
Ba 233.527†	6549.1	0.2269	mg/L	0.00383	0.2269	mg/L	0.00383	1.69%
Be 313.107†	-1417.3	-0.0007	mg/L	0.00001	-0.0007	mg/L	0.00001	1.37%
Ca 317.933†	420403.3	16.71	mg/L	0.082	16.71	mg/L	0.082	0.49%
Cd 228.802†	678.7	0.0261	mg/L	0.00036	0.0261	mg/L	0.00036	1.38%
Co 228.616†	84.5	0.0039	mg/L	0.00008	0.0039	mg/L	0.00008	2.13%
Cr 267.716†	87.7	0.0012	mg/L	0.00020	0.0012	mg/L	0.00020	16.31%
Cu 327.393†	825.6	0.0099	mg/L	0.00051	0.0099	mg/L	0.00051	5.13%
Fe 238.204†	46870.3	2.255	mg/L	0.0063	2.255	mg/L	0.0063	0.28%
K 766.490†	11095.5	0.7741	mg/L	0.00889	0.7741	mg/L	0.00889	1.15%
Mg 285.213†	30972.4	0.5651	mg/L	0.00029	0.5651	mg/L	0.00029	0.05%
Mn 257.610†	117378.9	1.026	mg/L	0.0007	1.026	mg/L	0.0007	0.07%
Mo 202.031†	6.3	0.0003	mg/L	0.00032	0.0003	mg/L	0.00032	93.46%
Na 589.592†	8032740.3	241.9	mg/L	4.25	241.9	mg/L	4.25	1.76%
Ni 231.604†	559.6	0.0148	mg/L	0.00049	0.0148	mg/L	0.00049	3.28%
Pb 220.353†	1297.3	0.2448	mg/L	0.00566	0.2448	mg/L	0.00566	2.31%
Sb 206.836†	21.6	0.0070	mg/L	0.00115	0.0070	mg/L	0.00115	16.38%
Se 196.026†	10.3	0.0066	mg/L	0.00195	0.0066	mg/L	0.00195	29.55%
Sn 189.927†	-1.4	-0.0002	mg/L	0.00061	-0.0002	mg/L	0.00061	249.23%
Ti 337.279†	-13.6	-0.0001	mg/L	0.00035	-0.0001	mg/L	0.00035	254.77%
Tl 351.924†	-7.9	-0.0028	mg/L	0.00336	-0.0028	mg/L	0.00336	121.84%
V 290.880†	80.0	0.0008	mg/L	0.00031	0.0008	mg/L	0.00031	38.22%
Zn 206.200†	730226.6	18.43	mg/L	0.034	18.43	mg/L	0.034	0.19%
Zr 343.823†	153.1	0.0006	mg/L	0.00010	0.0006	mg/L	0.00010	16.06%

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Batch ID: AVIO 500
Sequence No.: 75
Sample ID: SEQ-CCV@ 23J0975
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 200

Autosampler Location: 5
Date Collected: 5/27/2024 10:22:42 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	573083.4	90.5	%	0.72	90.5	%	0.72	0.80%
Y axial	2377315.2	87.8	%	0.86	87.8	%	0.86	0.98%
Ag 328.068†	97168.5	2.164	mg/L	0.0331	2.164	mg/L	0.0331	1.53%
QC value less than the lower limit for Ag 328.068 Recovery = 86.56%								
Al 396.153†	171972.8	6.739	mg/L	0.0300	6.739	mg/L	0.0300	0.45%
QC value less than the lower limit for Al 396.153 Recovery = 67.39%								
As 188.979†	7485.8	4.837	mg/L	0.0373	4.837	mg/L	0.0373	0.77%
QC value within limits for As 188.979 Recovery = 96.73%								
B 208.889†	38863.3	4.572	mg/L	0.0538	4.572	mg/L	0.0538	1.18%
QC value within limits for B 208.889 Recovery = 91.44%								
Ba 233.527†	135907.7	4.709	mg/L	0.0695	4.709	mg/L	0.0695	1.48%
QC value within limits for Ba 233.527 Recovery = 94.18%								
Be 313.107†	9176737.9	4.654	mg/L	0.0511	4.654	mg/L	0.0511	1.10%
QC value within limits for Be 313.107 Recovery = 93.07%								
Ca 317.933†	235162.8	9.347	mg/L	0.0197	9.347	mg/L	0.0197	0.21%
QC value within limits for Ca 317.933 Recovery = 93.47%								
Cd 228.802†	131373.2	4.903	mg/L	0.0259	4.903	mg/L	0.0259	0.53%

QC value within limits for Cd 228.802 Recovery = 98.06%
Co 228.616† 118440.5 5.111 mg/L 0.0241 5.111 mg/L 0.0241 0.47%
QC value within limits for Co 228.616 Recovery = 102.21%
Cr 267.716† 267922.2 5.010 mg/L 0.0134 5.010 mg/L 0.0134 0.27%
QC value within limits for Cr 267.716 Recovery = 100.21%
Cu 327.393† 406154.3 4.766 mg/L 0.0240 4.766 mg/L 0.0240 0.50%
QC value within limits for Cu 327.393 Recovery = 95.31%
Fe 238.204† 99482.0 4.848 mg/L 0.0102 4.848 mg/L 0.0102 0.21%
QC value within limits for Fe 238.204 Recovery = 96.96%
K 766.490† 121706.3 8.491 mg/L 0.1487 8.491 mg/L 0.1487 1.75%
QC value less than the lower limit for K 766.490 Recovery = 84.91%
Mg 285.213† 466793.0 8.547 mg/L 0.0025 8.547 mg/L 0.0025 0.03%
QC value less than the lower limit for Mg 285.213 Recovery = 85.47%
Mn 257.610† 533236.1 4.663 mg/L 0.0046 4.663 mg/L 0.0046 0.10%
QC value within limits for Mn 257.610 Recovery = 93.25%
Mo 202.031† 94290.3 5.037 mg/L 0.0288 5.037 mg/L 0.0288 0.57%
QC value within limits for Mo 202.031 Recovery = 100.74%
Na 589.592† 315266.5 9.492 mg/L 0.0612 9.492 mg/L 0.0612 0.64%
QC value within limits for Na 589.592 Recovery = 94.92%
Ni 231.604† 190655.1 5.054 mg/L 0.0183 5.054 mg/L 0.0183 0.36%
QC value within limits for Ni 231.604 Recovery = 101.09%
Pb 220.353† 23242.0 4.399 mg/L 0.0603 4.399 mg/L 0.0603 1.37%
QC value less than the lower limit for Pb 220.353 Recovery = 87.98%
Sb 206.836† 15032.6 4.916 mg/L 0.0470 4.916 mg/L 0.0470 0.96%
QC value within limits for Sb 206.836 Recovery = 98.31%
Se 196.026† 7811.4 4.458 mg/L 0.0541 4.458 mg/L 0.0541 1.21%
QC value less than the lower limit for Se 196.026 Recovery = 89.17%
Sn 189.927† 28420.8 4.989 mg/L 0.0651 4.989 mg/L 0.0651 1.30%
QC value within limits for Sn 189.927 Recovery = 99.77%
Ti 337.279† 466616.9 4.680 mg/L 0.0112 4.680 mg/L 0.0112 0.24%
QC value within limits for Ti 337.279 Recovery = 93.60%
Tl 351.924† 6072.6 2.551 mg/L 0.0457 2.551 mg/L 0.0457 1.79%
QC value within limits for Tl 351.924 Recovery = 102.03%
V 290.880† 446341.0 4.993 mg/L 0.0175 4.993 mg/L 0.0175 0.35%
QC value within limits for V 290.880 Recovery = 99.86%
Zn 206.200† 203323.8 5.163 mg/L 0.0202 5.163 mg/L 0.0202 0.39%
QC value within limits for Zn 206.200 Recovery = 103.25%
Zr 343.823† 1086224.2 5.290 mg/L 0.0196 5.290 mg/L 0.0196 0.37%
QC value within limits for Zr 343.823 Recovery = 105.80%
QC Failed. Continue with analysis.

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Batch ID: AVIO 500
Sequence No.: 76 **Autosampler Location: 1**
Sample ID: SEQ-CCB@ 23J0970 **Date Collected: 5/27/2024 10:28:47 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 200

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	576616.2	91.0	%	0.55	91.0	%	0.55	0.60%
Y axial	2484192.4	91.8	%	1.14	91.8	%	1.14	1.24%
Ag 328.068†	23.2	0.0005	mg/L	0.00012	0.0005	mg/L	0.00012	24.35%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	-12.9	-0.0006	mg/L	0.00121	-0.0006	mg/L	0.00121	195.69%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	-5.5	-0.0036	mg/L	0.00208	-0.0036	mg/L	0.00208	57.99%
QC value within limits for As 188.979 Recovery = Not calculated								
B 208.889†	26.1	0.0032	mg/L	0.00091	0.0032	mg/L	0.00091	28.55%
QC value within limits for B 208.889 Recovery = Not calculated								
Ba 233.527†	3.7	0.0001	mg/L	0.00010	0.0001	mg/L	0.00010	77.55%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-1770.8	-0.0009	mg/L	0.00002	-0.0009	mg/L	0.00002	2.78%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	-216.6	-0.0086	mg/L	0.00145	-0.0086	mg/L	0.00145	16.84%
QC value within limits for Ca 317.933 Recovery = Not calculated								

Cd 228.802†	-18.1	-0.0006 mg/L	0.00023	-0.0006 mg/L	0.00023	38.93%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	-34.0	-0.0015 mg/L	0.00008	-0.0015 mg/L	0.00008	5.25%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	25.5	0.0005 mg/L	0.00004	0.0005 mg/L	0.00004	8.74%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 327.393†	16.8	0.0002 mg/L	0.00041	0.0002 mg/L	0.00041	205.92%
QC value within limits for Cu 327.393 Recovery = Not calculated						
Fe 238.204†	49.5	0.0024 mg/L	0.00018	0.0024 mg/L	0.00018	7.44%
QC value within limits for Fe 238.204 Recovery = Not calculated						
K 766.490†	379.2	0.0265 mg/L	0.00265	0.0265 mg/L	0.00265	10.00%
QC value within limits for K 766.490 Recovery = Not calculated						
Mg 285.213†	62.3	0.0011 mg/L	0.00026	0.0011 mg/L	0.00026	23.02%
QC value within limits for Mg 285.213 Recovery = Not calculated						
Mn 257.610†	-3.5	-0.0000 mg/L	0.00004	-0.0000 mg/L	0.00004	131.24%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	25.1	0.0013 mg/L	0.00009	0.0013 mg/L	0.00009	6.69%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592†	14718.7	0.4432 mg/L	0.01209	0.4432 mg/L	0.01209	2.73%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	-14.2	-0.0004 mg/L	0.00032	-0.0004 mg/L	0.00032	86.60%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	16.5	0.0031 mg/L	0.00076	0.0031 mg/L	0.00076	24.34%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	9.2	0.0030 mg/L	0.00091	0.0030 mg/L	0.00091	30.41%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	10.1	0.0058 mg/L	0.00035	0.0058 mg/L	0.00035	6.14%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	12.8	0.0022 mg/L	0.00039	0.0022 mg/L	0.00039	17.23%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	7.6	0.0001 mg/L	0.00028	0.0001 mg/L	0.00028	371.91%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 351.924†	-4.7	-0.0019 mg/L	0.00204	-0.0019 mg/L	0.00204	107.61%
QC value within limits for Tl 351.924 Recovery = Not calculated						
V 290.880†	-124.8	-0.0014 mg/L	0.00011	-0.0014 mg/L	0.00011	8.00%
QC value within limits for V 290.880 Recovery = Not calculated						
Zn 206.200†	912.5	0.0230 mg/L	0.00015	0.0230 mg/L	0.00015	0.66%
QC value greater than the upper limit for Zn 206.200 Recovery = Not calculated						
Zr 343.823†	121.1	0.0006 mg/L	0.00022	0.0006 mg/L	0.00022	36.70%

QC Failed. Continue with analysis.

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Batch ID: AVIO 500
Sequence No.: 77 **Autosampler Location: 71**
Sample ID: 24E2262-22 **Date Collected: 5/27/2024 10:34:59 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 100

Mean Data: 24E2262-22

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	565471.4	89.3	%	3.17	89.3	%	3.17	3.55%
Y axial	2007224.8	74.2	%	1.18	74.2	%	1.18	1.60%
Ag 328.068†	-361.0	-0.0056	mg/L	0.00119	-0.0056	mg/L	0.00119	21.27%
Al 396.153†	52268.6	2.140	mg/L	0.1638	2.140	mg/L	0.1638	7.65%
As 188.979†	-11.2	-0.0062	mg/L	0.00040	-0.0062	mg/L	0.00040	6.46%
B 208.889†	1415.0	0.1770	mg/L	0.00384	0.1770	mg/L	0.00384	2.17%
Ba 233.527†	33869.1	1.174	mg/L	0.0169	1.174	mg/L	0.0169	1.44%
Be 313.107†	430.3	0.0002	mg/L	0.00029	0.0002	mg/L	0.00029	140.62%
Ca 317.933†	2001803.4	79.56	mg/L	4.779	79.56	mg/L	4.779	6.01%
Cd 228.802†	3511.6	0.1349	mg/L	0.00209	0.1349	mg/L	0.00209	1.55%
Co 228.616†	579.8	0.0265	mg/L	0.00067	0.0265	mg/L	0.00067	2.51%
Cr 267.716†	287.7	0.0035	mg/L	0.00023	0.0035	mg/L	0.00023	6.69%
Cu 327.393†	4548.4	0.0545	mg/L	0.00040	0.0545	mg/L	0.00040	0.73%
Fe 238.204†	217681.8	10.47	mg/L	0.639	10.47	mg/L	0.639	6.10%
K 766.490†	67273.2	4.694	mg/L	0.3653	4.694	mg/L	0.3653	7.78%
Mg 285.213†	159281.1	2.907	mg/L	0.1976	2.907	mg/L	0.1976	6.80%

Mn 257.610†	545147.4	4.767	mg/L	0.2980	4.767	mg/L	0.2980	6.25%
Mo 202.031†	-28.0	-0.0015	mg/L	0.00010	-0.0015	mg/L	0.00010	6.98%
Na 589.592†	Saturated3							
Ni 231.604†	2845.3	0.0752	mg/L	0.00124	0.0752	mg/L	0.00124	1.65%
Pb 220.353†	5862.3	1.106	mg/L	0.0180	1.106	mg/L	0.0180	1.63%
Sb 206.836†	15.0	0.0048	mg/L	0.00389	0.0048	mg/L	0.00389	81.50%
Se 196.026†	11.3	0.0098	mg/L	0.00607	0.0098	mg/L	0.00607	61.77%
Sn 189.927†	-29.0	-0.0051	mg/L	0.00116	-0.0051	mg/L	0.00116	22.84%
Ti 337.279†	178.8	0.0018	mg/L	0.00058	0.0018	mg/L	0.00058	32.12%
Tl 351.924†	0.1	0.0021	mg/L	0.00542	0.0021	mg/L	0.00542	262.01%
V 290.880†	328.2	0.0033	mg/L	0.00028	0.0033	mg/L	0.00028	8.63%
Zn 206.200†	3296047.4	83.30	mg/L	0.840	83.30	mg/L	0.840	1.01%
Zr 343.823†	225.2	0.0006	mg/L	0.00006	0.0006	mg/L	0.00006	9.49%

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Batch ID: AVIO 500
Sequence No.: 78 **Autosampler Location: 72**
Sample ID: 24E2262-06 **Date Collected: 5/27/2024 10:42:00 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 200

Mean Data: 24E2262-06

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	537752.6	84.9	%	0.30	84.9	%	0.30	0.36%
Y axial	2019916.1	74.6	%	0.60	74.6	%	0.60	0.80%
Ag 328.068†	-576.7	-0.0036	mg/L	0.00100	-0.0036	mg/L	0.00100	27.54%
Al 396.153†	108426.3	4.408	mg/L	0.0578	4.408	mg/L	0.0578	1.31%
As 188.979†	0.1	0.0003	mg/L	0.00241	0.0003	mg/L	0.00241	781.25%
B 208.889†	1997.1	0.2496	mg/L	0.00246	0.2496	mg/L	0.00246	0.99%
Ba 233.527†	33708.4	1.168	mg/L	0.0223	1.168	mg/L	0.0223	1.91%
Be 313.107†	1455.9	0.0007	mg/L	0.00004	0.0007	mg/L	0.00004	5.39%
Ca 317.933†	7039867.6	279.8	mg/L	0.68	279.8	mg/L	0.68	0.24%
Cd 228.802†	819.3	0.0318	mg/L	0.00010	0.0318	mg/L	0.00010	0.32%
Co 228.616†	392.4	0.0182	mg/L	0.00037	0.0182	mg/L	0.00037	2.05%
Cr 267.716†	1073.1	0.0183	mg/L	0.00017	0.0183	mg/L	0.00017	0.90%
Cu 327.393†	2781.6	0.0376	mg/L	0.00027	0.0376	mg/L	0.00027	0.72%
Fe 238.204†	72930.7	3.509	mg/L	0.0525	3.509	mg/L	0.0525	1.50%
K 766.490†	92724.3	6.469	mg/L	0.0589	6.469	mg/L	0.0589	0.91%
Mg 285.213†	418114.6	7.594	mg/L	0.0243	7.594	mg/L	0.0243	0.32%
Mn 257.610†	452751.5	3.959	mg/L	0.0027	3.959	mg/L	0.0027	0.07%
Mo 202.031†	34.9	0.0019	mg/L	0.00056	0.0019	mg/L	0.00056	30.04%
Na 589.592†	34577870.0	1041	mg/L	13.69	1041	mg/L	13.69	1.31%
Ni 231.604†	1019.4	0.0265	mg/L	0.00035	0.0265	mg/L	0.00035	1.30%
Pb 220.353†	3521.9	0.6650	mg/L	0.00062	0.6650	mg/L	0.00062	0.09%
Sb 206.836†	50.3	0.0162	mg/L	0.00238	0.0162	mg/L	0.00238	14.67%
Se 196.026†	14.3	0.0076	mg/L	0.00215	0.0076	mg/L	0.00215	28.24%
Sn 189.927†	-31.2	-0.0052	mg/L	0.00098	-0.0052	mg/L	0.00098	18.77%
Ti 337.279†	15511.1	0.1556	mg/L	0.00160	0.1556	mg/L	0.00160	1.03%
Tl 351.924†	23.0	0.0098	mg/L	0.00231	0.0098	mg/L	0.00231	23.60%
V 290.880†	1000.7	0.0118	mg/L	0.00017	0.0118	mg/L	0.00017	1.48%
Zn 206.200†	2824718.2	71.29	mg/L	0.299	71.29	mg/L	0.299	0.42%
Zr 343.823†	839.9	0.0039	mg/L	0.00010	0.0039	mg/L	0.00010	2.43%

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Batch ID: AVIO 500
Sequence No.: 79 **Autosampler Location: 73**
Sample ID: 24E2262-07 **Date Collected: 5/27/2024 10:49:06 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 200

Mean Data: 24E2262-07

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD

Y radial	548817.8	86.6 %	0.84	86.6 %	0.84	0.97%
Y axial	2069847.0	76.5 %	1.13	76.5 %	1.13	1.48%
Ag 328.068†	-294.1	-0.0052 mg/L	0.00031	-0.0052 mg/L	0.00031	5.89%
Al 396.153†	491544.8	20.31 mg/L	0.772	20.31 mg/L	0.772	3.80%
As 188.979†	0.8	0.0008 mg/L	0.00271	0.0008 mg/L	0.00271	356.25%
B 208.889†	1542.0	0.1932 mg/L	0.00162	0.1932 mg/L	0.00162	0.84%
Ba 233.527†	17279.4	0.5987 mg/L	0.00999	0.5987 mg/L	0.00999	1.67%
Be 313.107†	4963.5	0.0025 mg/L	0.00001	0.0025 mg/L	0.00001	0.54%
Ca 317.933†	1024623.8	40.72 mg/L	0.100	40.72 mg/L	0.100	0.24%
Cd 228.802†	37265.8	1.424 mg/L	0.0141	1.424 mg/L	0.0141	0.99%
Co 228.616†	609.1	0.0268 mg/L	0.00019	0.0268 mg/L	0.00019	0.71%
Cr 267.716†	406.3	0.0074 mg/L	0.00005	0.0074 mg/L	0.00005	0.65%
Cu 327.393†	78432.2	0.9151 mg/L	0.00930	0.9151 mg/L	0.00930	1.02%
Fe 238.204†	54409.1	2.618 mg/L	0.0159	2.618 mg/L	0.0159	0.61%
K 766.490†	64110.7	4.473 mg/L	0.0470	4.473 mg/L	0.0470	1.05%
Mg 285.213†	123328.6	2.253 mg/L	0.0030	2.253 mg/L	0.0030	0.13%
Mn 257.610†	71962.4	0.6293 mg/L	0.00106	0.6293 mg/L	0.00106	0.17%
Mo 202.031†	-112.7	-0.0060 mg/L	0.00051	-0.0060 mg/L	0.00051	8.42%
Na 589.592†	Saturated2					
Ni 231.604†	8862.8	0.2351 mg/L	0.00397	0.2351 mg/L	0.00397	1.69%
Pb 220.353†	2252221.8	425.3 mg/L	2.26	425.3 mg/L	2.26	0.53%
Sb 206.836†	80.4	0.0260 mg/L	0.00162	0.0260 mg/L	0.00162	6.24%
Se 196.026†	14.9	0.0097 mg/L	0.00086	0.0097 mg/L	0.00086	8.85%
Sn 189.927†	-7.3	-0.0012 mg/L	0.00075	-0.0012 mg/L	0.00075	60.13%
Ti 337.279†	2081.9	0.0209 mg/L	0.00100	0.0209 mg/L	0.00100	4.79%
Tl 351.924†	2.2	0.0014 mg/L	0.00188	0.0014 mg/L	0.00188	135.36%
V 290.880†	333.0	0.0038 mg/L	0.00013	0.0038 mg/L	0.00013	3.31%
Zn 206.200†	6874450.9	173.7 mg/L	1.35	173.7 mg/L	1.35	0.78%
Zr 343.823†	288.1	0.0013 mg/L	0.00002	0.0013 mg/L	0.00002	1.26%

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Batch ID: AVIO 500
Sequence No.: 80 **Autosampler Location: 74**
Sample ID: 24E2262-08 **Date Collected: 5/27/2024 10:56:06 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 200

Mean Data: 24E2262-08

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	531358.2	83.9	%	1.50	83.9	%	1.50	1.79%
Y axial	2023788.8	74.8	%	1.23	74.8	%	1.23	1.64%
Ag 328.068†	-334.4	-0.0052	mg/L	0.00104	-0.0052	mg/L	0.00104	19.76%
Al 396.153†	387036.0	15.98	mg/L	0.897	15.98	mg/L	0.897	5.62%
As 188.979†	-7.9	-0.0048	mg/L	0.00463	-0.0048	mg/L	0.00463	96.48%
B 208.889†	4927.4	0.6157	mg/L	0.01352	0.6157	mg/L	0.01352	2.20%
Ba 233.527†	2430.8	0.0842	mg/L	0.00312	0.0842	mg/L	0.00312	3.71%
Be 313.107†	3072.4	0.0016	mg/L	0.00004	0.0016	mg/L	0.00004	2.83%
Ca 317.933†	1779074.0	70.71	mg/L	0.528	70.71	mg/L	0.528	0.75%
Cd 228.802†	4441.6	0.1701	mg/L	0.00376	0.1701	mg/L	0.00376	2.21%
Co 228.616†	1698.7	0.0731	mg/L	0.00172	0.0731	mg/L	0.00172	2.35%
Cr 267.716†	525.7	0.0085	mg/L	0.00035	0.0085	mg/L	0.00035	4.05%
Cu 327.393†	4277.4	0.0512	mg/L	0.00082	0.0512	mg/L	0.00082	1.61%
Fe 238.204†	100230.6	4.823	mg/L	0.0732	4.823	mg/L	0.0732	1.52%
K 766.490†	400662.6	27.95	mg/L	1.469	27.95	mg/L	1.469	5.26%
Mg 285.213†	3549252.6	65.09	mg/L	1.323	65.09	mg/L	1.323	2.03%
Mn 257.610†	353271.2	3.089	mg/L	0.0443	3.089	mg/L	0.0443	1.43%
Mo 202.031†	140.9	0.0075	mg/L	0.00025	0.0075	mg/L	0.00025	3.29%
Na 589.592†	Saturated2							
Ni 231.604†	9898.2	0.2625	mg/L	0.00551	0.2625	mg/L	0.00551	2.10%
Pb 220.353†	41383.5	7.816	mg/L	0.0975	7.816	mg/L	0.0975	1.25%
Sb 206.836†	19.7	0.0065	mg/L	0.00366	0.0065	mg/L	0.00366	56.64%
Se 196.026†	10.0	0.0066	mg/L	0.00283	0.0066	mg/L	0.00283	42.64%
Sn 189.927†	-14.6	-0.0024	mg/L	0.00100	-0.0024	mg/L	0.00100	40.93%
Ti 337.279†	7769.2	0.0780	mg/L	0.00065	0.0780	mg/L	0.00065	0.84%
Tl 351.924†	-0.2	0.0007	mg/L	0.00358	0.0007	mg/L	0.00358	503.03%
V 290.880†	339.8	0.0102	mg/L	0.00180	0.0102	mg/L	0.00180	17.74%

Zn 206.200†	6869112.1	173.6	mg/L	2.13	173.6	mg/L	2.13	1.23%
Zr 343.823†	216.3	0.0008	mg/L	0.00004	0.0008	mg/L	0.00004	4.99%

Batch ID: AVIO 500
Sequence No.: 81 **Autosampler Location: 75**
Sample ID: 24E2262-09 **Date Collected: 5/27/2024 11:04:03 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 200

Mean Data: 24E2262-09

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y radial	542369.8	85.6	%	1.49	85.6	%	1.49	1.75%
Y axial	2058081.4	76.0	%	0.59	76.0	%	0.59	0.77%
Ag 328.068†	-440.6	-0.0046	mg/L	0.00013	-0.0046	mg/L	0.00013	2.90%
Al 396.153†	100474.9	4.146	mg/L	0.2462	4.146	mg/L	0.2462	5.94%
As 188.979†	-40.9	0.0021	mg/L	0.00615	0.0021	mg/L	0.00615	288.04%
B 208.889†	2257.5	0.2826	mg/L	0.00206	0.2826	mg/L	0.00206	0.73%
Ba 233.527†	15791.2	0.5471	mg/L	0.00728	0.5471	mg/L	0.00728	1.33%
Be 313.107†	357.8	0.0001	mg/L	0.00004	0.0001	mg/L	0.00004	33.93%
Ca 317.933†	651940.7	25.91	mg/L	0.072	25.91	mg/L	0.072	0.28%
Cd 228.802†	38579.7	1.475	mg/L	0.0028	1.475	mg/L	0.0028	0.19%
Co 228.616†	2325.2	0.1007	mg/L	0.00087	0.1007	mg/L	0.00087	0.86%
Cr 267.716†	509.5	0.0145	mg/L	0.00015	0.0145	mg/L	0.00015	1.02%
Cu 327.393†	6884.8	0.0807	mg/L	0.00086	0.0807	mg/L	0.00086	1.06%
Fe 238.204†	4928987.1	237.1	mg/L	1.02	237.1	mg/L	1.02	0.43%
K 766.490†	96698.7	6.747	mg/L	0.4101	6.747	mg/L	0.4101	6.08%
Mg 285.213†	120208.2	2.366	mg/L	0.0246	2.366	mg/L	0.0246	1.04%
Mn 257.610†	273641.1	2.399	mg/L	0.0181	2.399	mg/L	0.0181	0.76%
Mo 202.031†	-91.3	-0.0049	mg/L	0.00025	-0.0049	mg/L	0.00025	5.19%
Na 589.592†	36377751.5	1095	mg/L	8.58	1095	mg/L	8.58	0.78%
Ni 231.604†	22444.4	0.6072	mg/L	0.00188	0.6072	mg/L	0.00188	0.31%
Pb 220.353†	9011.9	1.695	mg/L	0.0052	1.695	mg/L	0.0052	0.31%
Sb 206.836†	-30.0	-0.0100	mg/L	0.00325	-0.0100	mg/L	0.00325	32.39%
Se 196.026†	-146.0	0.0683	mg/L	0.00253	0.0683	mg/L	0.00253	3.70%
Sn 189.927†	18.3	0.0032	mg/L	0.00066	0.0032	mg/L	0.00066	20.62%
Ti 337.279†	865.5	0.0087	mg/L	0.00109	0.0087	mg/L	0.00109	12.52%
Tl 351.924†	-101.8	0.0043	mg/L	0.00474	0.0043	mg/L	0.00474	110.12%
V 290.880†	1557.0	0.0024	mg/L	0.00065	0.0024	mg/L	0.00065	27.38%
Zn 206.200†	3633935.2	91.73	mg/L	0.468	91.73	mg/L	0.468	0.51%
Zr 343.823†	1648.3	-0.0021	mg/L	0.00014	-0.0021	mg/L	0.00014	6.41%

Batch ID: AVIO 500
Sequence No.: 82 **Autosampler Location: 76**
Sample ID: 24E2262-10 **Date Collected: 5/27/2024 11:11:16 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 200

Mean Data: 24E2262-10

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y radial	530685.4	83.8	%	0.48	83.8	%	0.48	0.57%
Y axial	2040250.5	75.4	%	1.82	75.4	%	1.82	2.41%
Ag 328.068†	-311.2	-0.0048	mg/L	0.00042	-0.0048	mg/L	0.00042	8.70%
Al 396.153†	153372.7	6.325	mg/L	0.1775	6.325	mg/L	0.1775	2.81%
As 188.979†	-5.8	-0.0011	mg/L	0.00652	-0.0011	mg/L	0.00652	611.93%
B 208.889†	1799.6	0.2248	mg/L	0.00503	0.2248	mg/L	0.00503	2.24%
Ba 233.527†	24319.0	0.8426	mg/L	0.02504	0.8426	mg/L	0.02504	2.97%
Be 313.107†	2424.1	0.0012	mg/L	0.00005	0.0012	mg/L	0.00005	4.49%
Ca 317.933†	1296778.8	51.54	mg/L	0.171	51.54	mg/L	0.171	0.33%
Cd 228.802†	13617.0	0.5208	mg/L	0.00068	0.5208	mg/L	0.00068	0.13%
Co 228.616†	283.5	0.0132	mg/L	0.00010	0.0132	mg/L	0.00010	0.75%

Cr 267.716†	976.2	0.0186 mg/L	0.00015	0.0186 mg/L	0.00015	0.81%
Cu 327.393†	31350.5	0.3664 mg/L	0.00229	0.3664 mg/L	0.00229	0.62%
Fe 238.204†	498254.9	23.97 mg/L	0.146	23.97 mg/L	0.146	0.61%
K 766.490†	67797.0	4.730 mg/L	0.0792	4.730 mg/L	0.0792	1.67%
Mg 285.213†	326385.9	5.990 mg/L	0.0707	5.990 mg/L	0.0707	1.18%
Mn 257.610†	63432.3	0.5553 mg/L	0.00650	0.5553 mg/L	0.00650	1.17%
Mo 202.031†	70.0	0.0037 mg/L	0.00072	0.0037 mg/L	0.00072	19.16%
Na 589.592†	35425950.7	1067 mg/L	21.34	1067 mg/L	21.34	2.00%
Ni 231.604†	4830.5	0.1292 mg/L	0.00212	0.1292 mg/L	0.00212	1.64%
Pb 220.353†	101789.0	19.22 mg/L	0.149	19.22 mg/L	0.149	0.78%
Sb 206.836†	155.5	0.0505 mg/L	0.00296	0.0505 mg/L	0.00296	5.85%
Se 196.026†	-4.1	0.0128 mg/L	0.00541	0.0128 mg/L	0.00541	42.39%
Sn 189.927†	3.8	0.0007 mg/L	0.00071	0.0007 mg/L	0.00071	101.33%
Ti 337.279†	1773.8	0.0178 mg/L	0.00062	0.0178 mg/L	0.00062	3.47%
Tl 351.924†	-4.4	0.0028 mg/L	0.00138	0.0028 mg/L	0.00138	49.04%
V 290.880†	463.7	0.0043 mg/L	0.00053	0.0043 mg/L	0.00053	12.56%
Zn 206.200†	1791900.5	45.19 mg/L	0.642	45.19 mg/L	0.642	1.42%
Zr 343.823†	359.5	0.0007 mg/L	0.00008	0.0007 mg/L	0.00008	10.68%

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Batch ID: AVIO 500
Sequence No.: 83 **Autosampler Location: 77**
Sample ID: 24E2262-11 **Date Collected: 5/27/2024 11:18:30 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 200

Mean Data: 24E2262-11

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	534265.5	84.3	%	1.39	84.3	%	1.39	1.64%
Y axial	1992203.8	73.6	%	0.36	73.6	%	0.36	0.49%
Ag 328.068†	-327.6	-0.0051	mg/L	0.00015	-0.0051	mg/L	0.00015	2.89%
Al 396.153†	65864.1	2.709	mg/L	0.0657	2.709	mg/L	0.0657	2.42%
As 188.979†	-11.9	-0.0046	mg/L	0.00334	-0.0046	mg/L	0.00334	72.74%
B 208.889†	1786.5	0.2236	mg/L	0.00219	0.2236	mg/L	0.00219	0.98%
Ba 233.527†	37601.0	1.303	mg/L	0.0143	1.303	mg/L	0.0143	1.10%
Be 313.107†	1891.8	0.0009	mg/L	0.00004	0.0009	mg/L	0.00004	4.53%
Ca 317.933†	1301211.2	51.72	mg/L	0.401	51.72	mg/L	0.401	0.77%
Cd 228.802†	3431.2	0.1319	mg/L	0.00090	0.1319	mg/L	0.00090	0.68%
Co 228.616†	626.5	0.0287	mg/L	0.00036	0.0287	mg/L	0.00036	1.25%
Cr 267.716†	331.0	0.0062	mg/L	0.00018	0.0062	mg/L	0.00018	2.89%
Cu 327.393†	37.0	0.0014	mg/L	0.00012	0.0014	mg/L	0.00012	8.50%
Fe 238.204†	578088.0	27.81	mg/L	0.404	27.81	mg/L	0.404	1.45%
K 766.490†	90849.2	6.338	mg/L	0.2801	6.338	mg/L	0.2801	4.42%
Mg 285.213†	114014.0	2.097	mg/L	0.0447	2.097	mg/L	0.0447	2.13%
Mn 257.610†	166820.0	1.459	mg/L	0.0218	1.459	mg/L	0.0218	1.50%
Mo 202.031†	-81.3	-0.0043	mg/L	0.00086	-0.0043	mg/L	0.00086	19.72%
Na 589.592†	35113822.7	1057	mg/L	35.44	1057	mg/L	35.44	3.35%
Ni 231.604†	3300.5	0.0886	mg/L	0.00086	0.0886	mg/L	0.00086	0.97%
Pb 220.353†	15538.4	2.934	mg/L	0.0095	2.934	mg/L	0.0095	0.32%
Sb 206.836†	15.6	0.0049	mg/L	0.00402	0.0049	mg/L	0.00402	81.68%
Se 196.026†	0.2	0.0170	mg/L	0.00486	0.0170	mg/L	0.00486	28.52%
Sn 189.927†	-15.2	-0.0027	mg/L	0.00033	-0.0027	mg/L	0.00033	12.22%
Ti 337.279†	334.4	0.0034	mg/L	0.00007	0.0034	mg/L	0.00007	1.95%
Tl 351.924†	-22.1	-0.0037	mg/L	0.00056	-0.0037	mg/L	0.00056	15.30%
V 290.880†	421.4	0.0031	mg/L	0.00045	0.0031	mg/L	0.00045	14.45%
Zn 206.200†	5264016.3	132.9	mg/L	1.24	132.9	mg/L	1.24	0.93%
Zr 343.823†	317.7	0.0004	mg/L	0.00002	0.0004	mg/L	0.00002	6.71%

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Batch ID: AVIO 500
Sequence No.: 84 **Autosampler Location: 78**
Sample ID: 24E2262-12 **Date Collected: 5/27/2024 11:25:43 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 200

Mean Data: 24E2262-12

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	519364.0	82.0	%	0.63	82.0	%	0.63	0.77%
Y axial	1932123.0	71.4	%	0.87	71.4	%	0.87	1.21%
Ag 328.068†	-875.8	0.0001	mg/L	0.00053	0.0001	mg/L	0.00053	580.21%
Al 396.153†	6346.0	0.1100	mg/L	0.00497	0.1100	mg/L	0.00497	4.52%
As 188.979†	-11.4	-0.0075	mg/L	0.00154	-0.0075	mg/L	0.00154	20.46%
B 208.889†	2139.2	0.2675	mg/L	0.00311	0.2675	mg/L	0.00311	1.16%
Ba 233.527†	11653.5	0.4038	mg/L	0.00770	0.4038	mg/L	0.00770	1.91%
Be 313.107†	-1050.3	-0.0006	mg/L	0.00004	-0.0006	mg/L	0.00004	6.94%
Ca 317.933†	14598845.7	580.2	mg/L	6.17	580.2	mg/L	6.17	1.06%
Cd 228.802†	2684.0	0.1029	mg/L	0.00121	0.1029	mg/L	0.00121	1.18%
Co 228.616†	338.5	0.0151	mg/L	0.00027	0.0151	mg/L	0.00027	1.81%
Cr 267.716†	112.1	0.0015	mg/L	0.00006	0.0015	mg/L	0.00006	3.89%
Cu 327.393†	-798.0	0.0012	mg/L	0.00029	0.0012	mg/L	0.00029	24.59%
Fe 238.204†	4296.9	0.2069	mg/L	0.00267	0.2069	mg/L	0.00267	1.29%
K 766.490†	131497.7	9.174	mg/L	0.0526	9.174	mg/L	0.0526	0.57%
Mg 285.213†	196333.2	3.438	mg/L	0.0272	3.438	mg/L	0.0272	0.79%
Mn 257.610†	147181.8	1.287	mg/L	0.0052	1.287	mg/L	0.0052	0.40%
Mo 202.031†	4.4	0.0002	mg/L	0.00025	0.0002	mg/L	0.00025	105.81%
Na 589.592†	36929579.6	1112	mg/L	18.26	1112	mg/L	18.26	1.64%
Ni 231.604†	3340.6	0.0884	mg/L	0.00057	0.0884	mg/L	0.00057	0.64%
Pb 220.353†	8.7	0.0015	mg/L	0.00075	0.0015	mg/L	0.00075	49.42%
Sb 206.836†	11.6	0.0038	mg/L	0.00199	0.0038	mg/L	0.00199	52.60%
Se 196.026†	14.5	0.0075	mg/L	0.00107	0.0075	mg/L	0.00107	14.22%
Sn 189.927†	-65.8	-0.0115	mg/L	0.00110	-0.0115	mg/L	0.00110	9.55%
Ti 337.279†	776.3	0.0078	mg/L	0.00016	0.0078	mg/L	0.00016	2.11%
Tl 351.924†	41.6	0.0170	mg/L	0.00248	0.0170	mg/L	0.00248	14.57%
V 290.880†	420.2	0.0051	mg/L	0.00055	0.0051	mg/L	0.00055	10.90%
Zn 206.200†	6830732.0	172.5	mg/L	1.54	172.5	mg/L	1.54	0.89%
Zr 343.823†	120.5	0.0006	mg/L	0.00009	0.0006	mg/L	0.00009	15.40%

Batch ID: AVIO 500
Sequence No.: 85 **Autosampler Location: 79**
Sample ID: 24E2262-13 **Date Collected: 5/27/2024 11:31:11 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 100

Mean Data: 24E2262-13

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	520314.3	82.1	%	0.92	82.1	%	0.92	1.12%
Y axial	1954460.0	72.2	%	0.78	72.2	%	0.78	1.08%
Ag 328.068†	-634.7	-0.0018	mg/L	0.00031	-0.0018	mg/L	0.00031	17.32%
Al 396.153†	418031.3	17.18	mg/L	1.069	17.18	mg/L	1.069	6.22%
As 188.979†	69.4	0.0471	mg/L	0.00181	0.0471	mg/L	0.00181	3.85%
B 208.889†	2221.1	0.2765	mg/L	0.00161	0.2765	mg/L	0.00161	0.58%
Ba 233.527†	15134.7	0.5244	mg/L	0.00770	0.5244	mg/L	0.00770	1.47%
Be 313.107†	2225.6	0.0011	mg/L	0.00007	0.0011	mg/L	0.00007	6.22%
Ca 317.933†	8934100.5	355.1	mg/L	3.95	355.1	mg/L	3.95	1.11%
Cd 228.802†	89368.3	3.414	mg/L	0.0290	3.414	mg/L	0.0290	0.85%
Co 228.616†	2686.3	0.1157	mg/L	0.00108	0.1157	mg/L	0.00108	0.94%
Cr 267.716†	1354.0	0.0253	mg/L	0.00031	0.0253	mg/L	0.00031	1.22%
Cu 327.393†	25991.5	0.3095	mg/L	0.00185	0.3095	mg/L	0.00185	0.60%
Fe 238.204†	359025.7	17.27	mg/L	0.224	17.27	mg/L	0.224	1.30%
K 766.490†	108967.6	7.603	mg/L	0.4551	7.603	mg/L	0.4551	5.99%
Mg 285.213†	394299.5	7.145	mg/L	0.2005	7.145	mg/L	0.2005	2.81%
Mn 257.610†	104839.8	0.9172	mg/L	0.00719	0.9172	mg/L	0.00719	0.78%
Mo 202.031†	390.4	0.0209	mg/L	0.00120	0.0209	mg/L	0.00120	5.74%
Na 589.592†	Saturated2							
Ni 231.604†	35057.3	0.9310	mg/L	0.00801	0.9310	mg/L	0.00801	0.86%
Pb 220.353†	2359.9	0.4467	mg/L	0.00405	0.4467	mg/L	0.00405	0.91%
Sb 206.836†	199.3	0.0651	mg/L	0.00225	0.0651	mg/L	0.00225	3.46%

Se 196.026†	-8.4	0.0057 mg/L	0.00336	0.0057 mg/L	0.00336	58.99%
Sn 189.927†	500.5	0.0880 mg/L	0.00098	0.0880 mg/L	0.00098	1.12%
Ti 337.279†	15807.2	0.1586 mg/L	0.00124	0.1586 mg/L	0.00124	0.78%
Tl 351.924†	13.1	0.0084 mg/L	0.00202	0.0084 mg/L	0.00202	24.03%
V 290.880†	1227.5	0.0134 mg/L	0.00071	0.0134 mg/L	0.00071	5.30%
Zn 206.200†	3466981.3	87.62 mg/L	0.376	87.62 mg/L	0.376	0.43%
Zr 343.823†	937.2	0.0038 mg/L	0.00002	0.0038 mg/L	0.00002	0.61%

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Batch ID: AVIO 500
Sequence No.: 86 **Autosampler Location: 80**
Sample ID: 24E2262-14 **Date Collected: 5/27/2024 11:38:18 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 200

Mean Data: 24E2262-14

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	525706.6	83.0	%	0.07	83.0	%	0.07	0.09%
Y axial	1991323.0	73.6	%	0.45	73.6	%	0.45	0.61%
Ag 328.068†	-426.6	-0.0043	mg/L	0.00034	-0.0043	mg/L	0.00034	7.86%
Al 396.153†	4397071.8	181.7	mg/L	2.99	181.7	mg/L	2.99	1.65%
As 188.979†	-19.3	-0.0017	mg/L	0.00033	-0.0017	mg/L	0.00033	19.41%
B 208.889†	8435.8	1.054	mg/L	0.0057	1.054	mg/L	0.0057	0.54%
Ba 233.527†	3263.5	0.1131	mg/L	0.00118	0.1131	mg/L	0.00118	1.04%
Be 313.107†	20031.5	0.0101	mg/L	0.00005	0.0101	mg/L	0.00005	0.52%
Ca 317.933†	3118427.0	123.9	mg/L	0.43	123.9	mg/L	0.43	0.34%
Cd 228.802†	4300.0	0.1654	mg/L	0.00086	0.1654	mg/L	0.00086	0.52%
Co 228.616†	5570.9	0.2386	mg/L	0.00115	0.2386	mg/L	0.00115	0.48%
Cr 267.716†	2129.1	0.0380	mg/L	0.00052	0.0380	mg/L	0.00052	1.36%
Cu 327.393†	124354.6	1.452	mg/L	0.0210	1.452	mg/L	0.0210	1.44%
Fe 238.204†	1871440.5	90.04	mg/L	0.411	90.04	mg/L	0.411	0.46%
K 766.490†	766393.6	53.47	mg/L	1.083	53.47	mg/L	1.083	2.03%
Mg 285.213†	6123180.3	112.4	mg/L	0.67	112.4	mg/L	0.67	0.59%
Mn 257.610†	1029711.5	9.006	mg/L	0.0472	9.006	mg/L	0.0472	0.52%
Mo 202.031†	283.3	0.0151	mg/L	0.00073	0.0151	mg/L	0.00073	4.80%
Na 589.592†	Saturated2							
Ni 231.604†	34686.7	0.9237	mg/L	0.00678	0.9237	mg/L	0.00678	0.73%
Pb 220.353†	1145.2	0.2301	mg/L	0.00451	0.2301	mg/L	0.00451	1.96%
Sb 206.836†	-22.6	-0.0071	mg/L	0.00251	-0.0071	mg/L	0.00251	35.28%
Se 196.026†	-54.1	0.0209	mg/L	0.01342	0.0209	mg/L	0.01342	64.09%
Sn 189.927†	44.1	0.0088	mg/L	0.00103	0.0088	mg/L	0.00103	11.70%
Ti 337.279†	65874.5	0.6610	mg/L	0.00274	0.6610	mg/L	0.00274	0.42%
Tl 351.924†	-46.9	-0.0031	mg/L	0.00549	-0.0031	mg/L	0.00549	179.62%
V 290.880†	2901.9	0.0382	mg/L	0.00303	0.0382	mg/L	0.00303	7.94%
Zn 206.200†	12763212.1	322.5	mg/L	2.16	322.5	mg/L	2.16	0.67%
Zr 343.823†	2063.3	0.0062	mg/L	0.00017	0.0062	mg/L	0.00017	2.67%

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Batch ID: AVIO 500
Sequence No.: 87 **Autosampler Location: 5**
Sample ID: SEQ-CCV@ 23J0975 **Date Collected: 5/27/2024 11:45:28 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 200

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	558330.4	88.1	%	0.44	88.1	%	0.44	0.50%
Y axial	2376934.1	87.8	%	0.57	87.8	%	0.57	0.65%
Ag 328.068†	101331.3	2.257	mg/L	0.0295	2.257	mg/L	0.0295	1.31%
QC value within limits for Ag 328.068 Recovery = 90.28%								
Al 396.153†	187932.9	7.390	mg/L	0.1419	7.390	mg/L	0.1419	1.92%
QC value less than the lower limit for Al 396.153 Recovery = 73.90%								

As 188.979†	7666.4	4.953 mg/L	0.0234	4.953 mg/L	0.0234	0.47%
QC value within limits for As 188.979 Recovery = 99.06%						
B 208.889†	39863.9	4.690 mg/L	0.0178	4.690 mg/L	0.0178	0.38%
QC value within limits for B 208.889 Recovery = 93.79%						
Ba 233.527†	139482.2	4.833 mg/L	0.0656	4.833 mg/L	0.0656	1.36%
QC value within limits for Ba 233.527 Recovery = 96.66%						
Be 313.107†	9557661.3	4.847 mg/L	0.0253	4.847 mg/L	0.0253	0.52%
QC value within limits for Be 313.107 Recovery = 96.94%						
Ca 317.933†	246424.4	9.794 mg/L	0.0318	9.794 mg/L	0.0318	0.32%
QC value within limits for Ca 317.933 Recovery = 97.94%						
Cd 228.802†	134304.2	5.012 mg/L	0.0335	5.012 mg/L	0.0335	0.67%
QC value within limits for Cd 228.802 Recovery = 100.25%						
Co 228.616†	120641.4	5.205 mg/L	0.0371	5.205 mg/L	0.0371	0.71%
QC value within limits for Co 228.616 Recovery = 104.11%						
Cr 267.716†	274840.4	5.140 mg/L	0.0307	5.140 mg/L	0.0307	0.60%
QC value within limits for Cr 267.716 Recovery = 102.79%						
Cu 327.393†	420182.4	4.930 mg/L	0.0298	4.930 mg/L	0.0298	0.60%
QC value within limits for Cu 327.393 Recovery = 98.60%						
Fe 238.204†	105243.1	5.127 mg/L	0.0331	5.127 mg/L	0.0331	0.64%
QC value within limits for Fe 238.204 Recovery = 102.53%						
K 766.490†	134166.6	9.361 mg/L	0.1968	9.361 mg/L	0.1968	2.10%
QC value within limits for K 766.490 Recovery = 93.61%						
Mg 285.213†	493161.4	9.031 mg/L	0.0786	9.031 mg/L	0.0786	0.87%
QC value within limits for Mg 285.213 Recovery = 90.31%						
Mn 257.610†	569758.1	4.982 mg/L	0.0324	4.982 mg/L	0.0324	0.65%
QC value within limits for Mn 257.610 Recovery = 99.64%						
Mo 202.031†	96790.2	5.171 mg/L	0.0348	5.171 mg/L	0.0348	0.67%
QC value within limits for Mo 202.031 Recovery = 103.42%						
Na 589.592†	350257.8	10.55 mg/L	0.110	10.55 mg/L	0.110	1.05%
QC value within limits for Na 589.592 Recovery = 105.46%						
Ni 231.604†	194936.9	5.168 mg/L	0.0385	5.168 mg/L	0.0385	0.75%
QC value within limits for Ni 231.604 Recovery = 103.36%						
Pb 220.353†	24762.3	4.686 mg/L	0.0162	4.686 mg/L	0.0162	0.35%
QC value within limits for Pb 220.353 Recovery = 93.73%						
Sb 206.836†	15372.6	5.027 mg/L	0.0088	5.027 mg/L	0.0088	0.18%
QC value within limits for Sb 206.836 Recovery = 100.54%						
Se 196.026†	8244.2	4.705 mg/L	0.0149	4.705 mg/L	0.0149	0.32%
QC value within limits for Se 196.026 Recovery = 94.11%						
Sn 189.927†	29328.4	5.148 mg/L	0.0066	5.148 mg/L	0.0066	0.13%
QC value within limits for Sn 189.927 Recovery = 102.96%						
Ti 337.279†	485342.0	4.868 mg/L	0.0072	4.868 mg/L	0.0072	0.15%
QC value within limits for Ti 337.279 Recovery = 97.36%						
Tl 351.924†	6241.9	2.621 mg/L	0.0301	2.621 mg/L	0.0301	1.15%
QC value within limits for Tl 351.924 Recovery = 104.84%						
V 290.880†	457731.3	5.120 mg/L	0.0310	5.120 mg/L	0.0310	0.60%
QC value within limits for V 290.880 Recovery = 102.41%						
Zn 206.200†	218707.1	5.552 mg/L	0.0480	5.552 mg/L	0.0480	0.86%
QC value greater than the upper limit for Zn 206.200 Recovery = 111.04%						
Zr 343.823†	1104932.4	5.381 mg/L	0.0308	5.381 mg/L	0.0308	0.57%
QC value within limits for Zr 343.823 Recovery = 107.62%						

QC Failed. Continue with analysis.

Batch ID: AVIO 500
Sequence No.: 88 **Autosampler Location: 1**
Sample ID: SEQ-CCB@ 23J0970 **Date Collected: 5/27/2024 11:51:33 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 200

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	568356.9	89.7	%	1.02	89.7	%	1.02	1.14%
Y axial	2453096.3	90.6	%	0.97	90.6	%	0.97	1.07%
Ag 328.068†	107.4	0.0024	mg/L	0.00111	0.0024	mg/L	0.00111	46.40%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	-57.6	-0.0025	mg/L	0.00096	-0.0025	mg/L	0.00096	38.94%

QC value within limits for Al 396.153 Recovery = Not calculated

As 188.979†	-1.3	-0.0009 mg/L	0.00208	-0.0009 mg/L	0.00208	240.60%
QC value within limits for As 188.979 Recovery = Not calculated						
B 208.889†	25.2	0.0031 mg/L	0.00065	0.0031 mg/L	0.00065	21.08%
QC value within limits for B 208.889 Recovery = Not calculated						
Ba 233.527†	6.5	0.0002 mg/L	0.00014	0.0002 mg/L	0.00014	61.02%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-1654.1	-0.0008 mg/L	0.00003	-0.0008 mg/L	0.00003	4.07%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933†	-168.7	-0.0067 mg/L	0.00258	-0.0067 mg/L	0.00258	38.48%
QC value within limits for Ca 317.933 Recovery = Not calculated						
Cd 228.802†	-11.5	-0.0004 mg/L	0.00008	-0.0004 mg/L	0.00008	20.09%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	-34.1	-0.0015 mg/L	0.00006	-0.0015 mg/L	0.00006	3.92%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	33.7	0.0006 mg/L	0.00006	0.0006 mg/L	0.00006	9.27%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 327.393†	-4.0	-0.0000 mg/L	0.00013	-0.0000 mg/L	0.00013	300.29%
QC value within limits for Cu 327.393 Recovery = Not calculated						
Fe 238.204†	50.5	0.0024 mg/L	0.00058	0.0024 mg/L	0.00058	24.25%
QC value within limits for Fe 238.204 Recovery = Not calculated						
K 766.490†	531.8	0.0371 mg/L	0.00742	0.0371 mg/L	0.00742	20.00%
QC value within limits for K 766.490 Recovery = Not calculated						
Mg 285.213†	63.6	0.0012 mg/L	0.00029	0.0012 mg/L	0.00029	24.94%
QC value within limits for Mg 285.213 Recovery = Not calculated						
Mn 257.610†	-8.2	-0.0001 mg/L	0.00005	-0.0001 mg/L	0.00005	75.55%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	23.9	0.0013 mg/L	0.00031	0.0013 mg/L	0.00031	24.48%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592†	26067.4	0.7849 mg/L	0.02037	0.7849 mg/L	0.02037	2.60%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	-29.7	-0.0008 mg/L	0.00021	-0.0008 mg/L	0.00021	26.23%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	66.4	0.0125 mg/L	0.00080	0.0125 mg/L	0.00080	6.35%
QC value greater than the upper limit for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	11.9	0.0039 mg/L	0.00045	0.0039 mg/L	0.00045	11.53%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	9.1	0.0052 mg/L	0.00078	0.0052 mg/L	0.00078	14.94%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	12.1	0.0021 mg/L	0.00005	0.0021 mg/L	0.00005	2.54%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	11.7	0.0001 mg/L	0.00025	0.0001 mg/L	0.00025	213.70%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 351.924†	0.8	0.0003 mg/L	0.00214	0.0003 mg/L	0.00214	638.75%
QC value within limits for Tl 351.924 Recovery = Not calculated						
V 290.880†	-82.6	-0.0009 mg/L	0.00023	-0.0009 mg/L	0.00023	25.42%
QC value within limits for V 290.880 Recovery = Not calculated						
Zn 206.200†	5904.0	0.1491 mg/L	0.00177	0.1491 mg/L	0.00177	1.18%
QC value greater than the upper limit for Zn 206.200 Recovery = Not calculated						
Zr 343.823†	129.7	0.0006 mg/L	0.00018	0.0006 mg/L	0.00018	27.72%

QC Failed. Continue with analysis.

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Batch ID: AVIO 500
Sequence No.: 89 **Autosampler Location: 81**
Sample ID: 24E2262-15 **Date Collected: 5/27/2024 11:57:45 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 100

Mean Data: 24E2262-15

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	497438.1	78.5	%	0.33	78.5	%	0.33	0.42%
Y axial	1888443.2	69.8	%	1.79	69.8	%	1.79	2.57%
Ag 328.068†	-595.4	-0.0020	mg/L	0.00087	-0.0020	mg/L	0.00087	43.40%
Al 396.153†	21938.0	0.8187	mg/L	0.01309	0.8187	mg/L	0.01309	1.60%
As 188.979†	-11.4	-0.0068	mg/L	0.00203	-0.0068	mg/L	0.00203	29.94%

B 208.889†	2136.0	0.2664 mg/L	0.00764	0.2664 mg/L	0.00764	2.87%
Ba 233.527†	12700.3	0.4400 mg/L	0.01429	0.4400 mg/L	0.01429	3.25%
Be 313.107†	484.9	0.0002 mg/L	0.00002	0.0002 mg/L	0.00002	10.93%
Ca 317.933†	8379372.0	333.0 mg/L	0.59	333.0 mg/L	0.59	0.18%
Cd 228.802†	113.6	0.0048 mg/L	0.00020	0.0048 mg/L	0.00020	4.25%
Co 228.616†	399.8	0.0178 mg/L	0.00096	0.0178 mg/L	0.00096	5.40%
Cr 267.716†	294.0	0.0047 mg/L	0.00025	0.0047 mg/L	0.00025	5.35%
Cu 327.393†	209.2	0.0085 mg/L	0.00015	0.0085 mg/L	0.00015	1.74%
Fe 238.204†	150149.6	7.224 mg/L	0.0461	7.224 mg/L	0.0461	0.64%
K 766.490†	103221.9	7.202 mg/L	0.0710	7.202 mg/L	0.0710	0.99%
Mg 285.213†	515116.0	9.361 mg/L	0.0862	9.361 mg/L	0.0862	0.92%
Mn 257.610†	241170.2	2.109 mg/L	0.0101	2.109 mg/L	0.0101	0.48%
Mo 202.031†	210.9	0.0113 mg/L	0.00080	0.0113 mg/L	0.00080	7.14%
Na 589.592†	37162131.5	1119 mg/L	14.19	1119 mg/L	14.19	1.27%
Ni 231.604†	1015.3	0.0270 mg/L	0.00083	0.0270 mg/L	0.00083	3.10%
Pb 220.353†	531.9	0.1001 mg/L	0.00378	0.1001 mg/L	0.00378	3.77%
Sb 206.836†	28.9	0.0095 mg/L	0.00253	0.0095 mg/L	0.00253	26.54%
Se 196.026†	9.5	0.0086 mg/L	0.00648	0.0086 mg/L	0.00648	75.50%
Sn 189.927†	-56.2	-0.0098 mg/L	0.00037	-0.0098 mg/L	0.00037	3.72%
Ti 337.279†	1650.7	0.0166 mg/L	0.00094	0.0166 mg/L	0.00094	5.68%
Tl 351.924†	33.2	0.0149 mg/L	0.00420	0.0149 mg/L	0.00420	28.12%
V 290.880†	609.3	0.0073 mg/L	0.00068	0.0073 mg/L	0.00068	9.27%
Zn 206.200†	459386.4	11.51 mg/L	0.373	11.51 mg/L	0.373	3.24%
Zr 343.823†	251.4	0.0009 mg/L	0.00009	0.0009 mg/L	0.00009	10.07%

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Batch ID: AVIO 500
Sequence No.: 90 **Autosampler Location: 82**
Sample ID: 24E2262-16 **Date Collected: 5/28/2024 12:04:54 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 200

Mean Data: 24E2262-16

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y radial	513530.1	81.1	%	0.51	81.1	%	0.51	0.64%
Y axial	1980115.9	73.2	%	1.08	73.2	%	1.08	1.47%
Ag 328.068†	-436.3	-0.0042	mg/L	0.00056	-0.0042	mg/L	0.00056	13.38%
Al 396.153†	731948.0	30.21	mg/L	0.939	30.21	mg/L	0.939	3.11%
As 188.979†	0.8	0.0030	mg/L	0.00390	0.0030	mg/L	0.00390	128.91%
B 208.889†	2189.2	0.2735	mg/L	0.00280	0.2735	mg/L	0.00280	1.02%
Ba 233.527†	22477.2	0.7788	mg/L	0.01090	0.7788	mg/L	0.01090	1.40%
Be 313.107†	8519.3	0.0042	mg/L	0.00008	0.0042	mg/L	0.00008	1.96%
Ca 317.933†	3829838.7	152.2	mg/L	0.49	152.2	mg/L	0.49	0.32%
Cd 228.802†	13058.3	0.4993	mg/L	0.00404	0.4993	mg/L	0.00404	0.81%
Co 228.616†	771.1	0.0337	mg/L	0.00031	0.0337	mg/L	0.00031	0.93%
Cr 267.716†	2857.9	0.0533	mg/L	0.00057	0.0533	mg/L	0.00057	1.08%
Cu 327.393†	10152.0	0.1212	mg/L	0.00170	0.1212	mg/L	0.00170	1.40%
Fe 238.204†	463299.5	22.29	mg/L	0.271	22.29	mg/L	0.271	1.22%
K 766.490†	108679.5	7.582	mg/L	0.0661	7.582	mg/L	0.0661	0.87%
Mg 285.213†	523157.3	9.570	mg/L	0.1316	9.570	mg/L	0.1316	1.38%
Mn 257.610†	187676.1	1.642	mg/L	0.0197	1.642	mg/L	0.0197	1.20%
Mo 202.031†	89.9	0.0048	mg/L	0.00119	0.0048	mg/L	0.00119	24.83%
Na 589.592†	34934906.2	1052	mg/L	2.58	1052	mg/L	2.58	0.25%
Ni 231.604†	13290.7	0.3535	mg/L	0.00353	0.3535	mg/L	0.00353	1.00%
Pb 220.353†	15229.4	2.878	mg/L	0.0239	2.878	mg/L	0.0239	0.83%
Sb 206.836†	91.4	0.0292	mg/L	0.00390	0.0292	mg/L	0.00390	13.36%
Se 196.026†	-0.7	0.0128	mg/L	0.00197	0.0128	mg/L	0.00197	15.37%
Sn 189.927†	229.5	0.0405	mg/L	0.00102	0.0405	mg/L	0.00102	2.52%
Ti 337.279†	17574.4	0.1763	mg/L	0.00122	0.1763	mg/L	0.00122	0.69%
Tl 351.924†	-0.9	0.0036	mg/L	0.00593	0.0036	mg/L	0.00593	163.35%
V 290.880†	2299.6	0.0253	mg/L	0.00066	0.0253	mg/L	0.00066	2.62%
Zn 206.200†	3709829.8	93.66	mg/L	1.052	93.66	mg/L	1.052	1.12%
Zr 343.823†	1319.1	0.0055	mg/L	0.00014	0.0055	mg/L	0.00014	2.57%

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Batch ID: AVIO 500

Sequence No.: 91
Sample ID: 24E2262-17
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 200

Autosampler Location: 83
Date Collected: 5/28/2024 12:12:09 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 24E2262-17

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	508066.9	80.2	%	0.86	80.2	%	0.86	1.07%
Y axial	1882189.4	69.5	%	0.79	69.5	%	0.79	1.14%
Ag 328.068†	-588.3	-0.0035	mg/L	0.00025	-0.0035	mg/L	0.00025	6.99%
Al 396.153†	317914.6	13.06	mg/L	0.154	13.06	mg/L	0.154	1.18%
As 188.979†	-2.7	-0.0020	mg/L	0.00400	-0.0020	mg/L	0.00400	203.73%
B 208.889†	2242.7	0.2801	mg/L	0.00418	0.2801	mg/L	0.00418	1.49%
Ba 233.527†	27132.4	0.9401	mg/L	0.00911	0.9401	mg/L	0.00911	0.97%
Be 313.107†	3796.0	0.0019	mg/L	0.00007	0.0019	mg/L	0.00007	3.89%
Ca 317.933†	7244863.7	288.0	mg/L	2.16	288.0	mg/L	2.16	0.75%
Cd 228.802†	3777.4	0.1448	mg/L	0.00229	0.1448	mg/L	0.00229	1.58%
Co 228.616†	365.0	0.0169	mg/L	0.00090	0.0169	mg/L	0.00090	5.31%
Cr 267.716†	460.8	0.0075	mg/L	0.00018	0.0075	mg/L	0.00018	2.36%
Cu 327.393†	21320.1	0.2538	mg/L	0.00388	0.2538	mg/L	0.00388	1.53%
Fe 238.204†	6510.1	0.3134	mg/L	0.00236	0.3134	mg/L	0.00236	0.75%
K 766.490†	130271.7	9.089	mg/L	0.1079	9.089	mg/L	0.1079	1.19%
Mg 285.213†	563978.7	10.27	mg/L	0.006	10.27	mg/L	0.006	0.06%
Mn 257.610†	274551.9	2.401	mg/L	0.0095	2.401	mg/L	0.0095	0.39%
Mo 202.031†	104.9	0.0056	mg/L	0.00084	0.0056	mg/L	0.00084	14.92%
Na 589.592†	35985219.7	1083	mg/L	5.83	1083	mg/L	5.83	0.54%
Ni 231.604†	2362.0	0.0622	mg/L	0.00062	0.0622	mg/L	0.00062	0.99%
Pb 220.353†	2524.7	0.4777	mg/L	0.00679	0.4777	mg/L	0.00679	1.42%
Sb 206.836†	23.1	0.0075	mg/L	0.00108	0.0075	mg/L	0.00108	14.43%
Se 196.026†	16.4	0.0079	mg/L	0.00165	0.0079	mg/L	0.00165	20.99%
Sn 189.927†	-52.6	-0.0092	mg/L	0.00105	-0.0092	mg/L	0.00105	11.38%
Ti 337.279†	456.3	0.0046	mg/L	0.00069	0.0046	mg/L	0.00069	15.13%
Tl 351.924†	14.0	0.0058	mg/L	0.00218	0.0058	mg/L	0.00218	37.75%
V 290.880†	532.1	0.0070	mg/L	0.00040	0.0070	mg/L	0.00040	5.72%
Zn 206.200†	2237253.8	56.44	mg/L	0.224	56.44	mg/L	0.224	0.40%
Zr 343.823†	219.5	0.0011	mg/L	0.00007	0.0011	mg/L	0.00007	6.97%

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Batch ID: AVIO 500
Sequence No.: 92
Sample ID: 24E2262-18
Analyst:
Initial Sample Wt:
Dilution:
Wash Time (before sample): 200

Autosampler Location: 84
Date Collected: 5/28/2024 12:19:26 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 24E2262-18

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	498767.7	78.7	%	0.39	78.7	%	0.39	0.50%
Y axial	1852212.9	68.4	%	0.89	68.4	%	0.89	1.30%
Ag 328.068†	-554.3	-0.0044	mg/L	0.00007	-0.0044	mg/L	0.00007	1.53%
Al 396.153†	25742.3	0.9998	mg/L	0.03986	0.9998	mg/L	0.03986	3.99%
As 188.979†	-4.9	-0.0032	mg/L	0.00067	-0.0032	mg/L	0.00067	21.02%
B 208.889†	2437.2	0.3042	mg/L	0.00196	0.3042	mg/L	0.00196	0.64%
Ba 233.527†	16841.1	0.5835	mg/L	0.01228	0.5835	mg/L	0.01228	2.10%
Be 313.107†	-48.0	-0.0000	mg/L	0.00009	-0.0000	mg/L	0.00009	171.96%
Ca 317.933†	6100221.1	242.5	mg/L	1.01	242.5	mg/L	1.01	0.42%
Cd 228.802†	434.3	0.0169	mg/L	0.00025	0.0169	mg/L	0.00025	1.50%
Co 228.616†	317.2	0.0144	mg/L	0.00041	0.0144	mg/L	0.00041	2.85%
Cr 267.716†	247.8	0.0030	mg/L	0.00034	0.0030	mg/L	0.00034	11.23%
Cu 327.393†	2761.3	0.0366	mg/L	0.00050	0.0366	mg/L	0.00050	1.38%
Fe 238.204†	36145.0	1.739	mg/L	0.0305	1.739	mg/L	0.0305	1.75%
K 766.490†	80388.1	5.609	mg/L	0.2187	5.609	mg/L	0.2187	3.90%
Mg 285.213†	357993.9	6.500	mg/L	0.1257	6.500	mg/L	0.1257	1.93%

Mn 257.610†	420343.2	3.675	mg/L	0.0340	3.675	mg/L	0.0340	0.93%
Mo 202.031†	188.6	0.0101	mg/L	0.00042	0.0101	mg/L	0.00042	4.17%
Na 589.592†	Saturated2							
Ni 231.604†	1190.7	0.0311	mg/L	0.00041	0.0311	mg/L	0.00041	1.31%
Pb 220.353†	10159.6	1.918	mg/L	0.0181	1.918	mg/L	0.0181	0.94%
Sb 206.836†	34.8	0.0115	mg/L	0.00127	0.0115	mg/L	0.00127	11.04%
Se 196.026†	17.9	0.0087	mg/L	0.00754	0.0087	mg/L	0.00754	86.37%
Sn 189.927†	-49.5	-0.0087	mg/L	0.00024	-0.0087	mg/L	0.00024	2.74%
Ti 337.279†	1770.9	0.0178	mg/L	0.00147	0.0178	mg/L	0.00147	8.29%
Tl 351.924†	-2.5	-0.0007	mg/L	0.00194	-0.0007	mg/L	0.00194	275.64%
V 290.880†	696.2	0.0083	mg/L	0.00052	0.0083	mg/L	0.00052	6.21%
Zn 206.200†	189397.6	4.786	mg/L	0.0457	4.786	mg/L	0.0457	0.95%
Zr 343.823†	184.8	0.0008	mg/L	0.00001	0.0008	mg/L	0.00001	0.72%

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Batch ID: AVIO 500
Sequence No.: 93 **Autosampler Location: 85**
Sample ID: 24E2262-19 **Date Collected: 5/28/2024 12:26:26 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 200

Mean Data: 24E2262-19

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	514005.0	81.1	%	1.70	81.1	%	1.70	2.09%
Y axial	1980688.8	73.2	%	0.69	73.2	%	0.69	0.95%
Ag 328.068†	-415.6	-0.0053	mg/L	0.00134	-0.0053	mg/L	0.00134	25.14%
Al 396.153†	58622.5	2.400	mg/L	0.1587	2.400	mg/L	0.1587	6.61%
As 188.979†	-8.7	0.0009	mg/L	0.00356	0.0009	mg/L	0.00356	408.41%
B 208.889†	2520.3	0.3150	mg/L	0.00665	0.3150	mg/L	0.00665	2.11%
Ba 233.527†	91065.3	3.155	mg/L	0.0746	3.155	mg/L	0.0746	2.36%
Be 313.107†	549.1	0.0003	mg/L	0.00013	0.0003	mg/L	0.00013	50.68%
Ca 317.933†	2227385.7	88.53	mg/L	0.338	88.53	mg/L	0.338	0.38%
Cd 228.802†	-44.7	0.0003	mg/L	0.00033	0.0003	mg/L	0.00033	96.58%
Co 228.616†	6414.6	0.2806	mg/L	0.00426	0.2806	mg/L	0.00426	1.52%
Cr 267.716†	232.9	0.0049	mg/L	0.00020	0.0049	mg/L	0.00020	4.06%
Cu 327.393†	-472.9	-0.0040	mg/L	0.00025	-0.0040	mg/L	0.00025	6.34%
Fe 238.204†	1196631.7	57.58	mg/L	0.264	57.58	mg/L	0.264	0.46%
K 766.490†	109109.1	7.612	mg/L	0.1812	7.612	mg/L	0.1812	2.38%
Mg 285.213†	619197.4	11.38	mg/L	0.143	11.38	mg/L	0.143	1.26%
Mn 257.610†	236146.3	2.066	mg/L	0.0104	2.066	mg/L	0.0104	0.51%
Mo 202.031†	35.8	0.0019	mg/L	0.00064	0.0019	mg/L	0.00064	33.30%
Na 589.592†	36397508.9	1096	mg/L	18.00	1096	mg/L	18.00	1.64%
Ni 231.604†	34354.4	0.9136	mg/L	0.00563	0.9136	mg/L	0.00563	0.62%
Pb 220.353†	61232.6	11.56	mg/L	0.156	11.56	mg/L	0.156	1.35%
Sb 206.836†	3.0	0.0009	mg/L	0.00299	0.0009	mg/L	0.00299	319.22%
Se 196.026†	-22.1	0.0231	mg/L	0.00444	0.0231	mg/L	0.00444	19.21%
Sn 189.927†	-20.5	-0.0036	mg/L	0.00077	-0.0036	mg/L	0.00077	21.43%
Ti 337.279†	161.9	0.0016	mg/L	0.00029	0.0016	mg/L	0.00029	17.58%
Tl 351.924†	-19.6	0.0031	mg/L	0.00661	0.0031	mg/L	0.00661	209.97%
V 290.880†	636.2	0.0046	mg/L	0.00053	0.0046	mg/L	0.00053	11.67%
Zn 206.200†	2830601.7	71.43	mg/L	0.546	71.43	mg/L	0.546	0.76%
Zr 343.823†	478.8	-0.0001	mg/L	0.00016	-0.0001	mg/L	0.00016	120.39%

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Batch ID: AVIO 500
Sequence No.: 94 **Autosampler Location: 86**
Sample ID: 24E2262-20 **Date Collected: 5/28/2024 12:33:39 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 200

Mean Data: 24E2262-20

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD

Y radial	512435.8	80.9	%	0.80	80.9	%	0.80	0.99%
Y axial	1894414.1	70.0	%	1.16	70.0	%	1.16	1.66%
Ag 328.068†	-573.2	-0.0043	mg/L	0.00025	-0.0043	mg/L	0.00025	5.85%
Al 396.153†	56844.8	2.282	mg/L	0.0378	2.282	mg/L	0.0378	1.65%
As 188.979†	-1.8	-0.0013	mg/L	0.00440	-0.0013	mg/L	0.00440	331.90%
B 208.889†	2708.3	0.3384	mg/L	0.00789	0.3384	mg/L	0.00789	2.33%
Ba 233.527†	32361.4	1.121	mg/L	0.0194	1.121	mg/L	0.0194	1.73%
Be 313.107†	364.3	0.0002	mg/L	0.00003	0.0002	mg/L	0.00003	18.71%
Ca 317.933†	6483382.1	257.7	mg/L	2.78	257.7	mg/L	2.78	1.08%
Cd 228.802†	32760.2	1.252	mg/L	0.0177	1.252	mg/L	0.0177	1.41%
Co 228.616†	464.9	0.0215	mg/L	0.00045	0.0215	mg/L	0.00045	2.10%
Cr 267.716†	291.0	0.0037	mg/L	0.00006	0.0037	mg/L	0.00006	1.52%
Cu 327.393†	3329.2	0.0435	mg/L	0.00094	0.0435	mg/L	0.00094	2.15%
Fe 238.204†	21815.3	1.050	mg/L	0.0010	1.050	mg/L	0.0010	0.09%
K 766.490†	97036.7	6.770	mg/L	0.1445	6.770	mg/L	0.1445	2.13%
Mg 285.213†	358612.0	6.507	mg/L	0.1141	6.507	mg/L	0.1141	1.75%
Mn 257.610†	446717.0	3.906	mg/L	0.0483	3.906	mg/L	0.0483	1.24%
Mo 202.031†	81.6	0.0044	mg/L	0.00034	0.0044	mg/L	0.00034	7.85%
Na 589.592†	35349460.0	1064	mg/L	14.54	1064	mg/L	14.54	1.37%
Ni 231.604†	1922.9	0.0504	mg/L	0.00100	0.0504	mg/L	0.00100	1.99%
Pb 220.353†	800.7	0.1510	mg/L	0.00278	0.1510	mg/L	0.00278	1.84%
Sb 206.836†	36.3	0.0118	mg/L	0.00162	0.0118	mg/L	0.00162	13.71%
Se 196.026†	8.0	0.0025	mg/L	0.00322	0.0025	mg/L	0.00322	129.82%
Sn 189.927†	-43.0	-0.0075	mg/L	0.00071	-0.0075	mg/L	0.00071	9.45%
Ti 337.279†	967.2	0.0097	mg/L	0.00046	0.0097	mg/L	0.00046	4.73%
Tl 351.924†	25.2	0.0105	mg/L	0.00356	0.0105	mg/L	0.00356	34.05%
V 290.880†	642.4	0.0078	mg/L	0.00026	0.0078	mg/L	0.00026	3.37%
Zn 206.200†	2070468.7	52.23	mg/L	0.383	52.23	mg/L	0.383	0.73%
Zr 343.823†	234.7	0.0011	mg/L	0.00005	0.0011	mg/L	0.00005	4.74%

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Batch ID: AVIO 500
Sequence No.: 95 **Autosampler Location: 87**
Sample ID: 24E2262-21 **Date Collected: 5/28/2024 12:40:55 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 200

Mean Data: 24E2262-21

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	514010.2	81.1	%	0.57	81.1	%	0.57	0.70%
Y axial	1957863.3	72.3	%	0.40	72.3	%	0.40	0.56%
Ag 328.068†	-315.9	-0.0049	mg/L	0.00042	-0.0049	mg/L	0.00042	8.46%
Al 396.153†	468385.1	19.35	mg/L	0.290	19.35	mg/L	0.290	1.50%
As 188.979†	41.4	0.0295	mg/L	0.00373	0.0295	mg/L	0.00373	12.64%
B 208.889†	11120.7	1.388	mg/L	0.0186	1.388	mg/L	0.0186	1.34%
Ba 233.527†	4222.3	0.1463	mg/L	0.00191	0.1463	mg/L	0.00191	1.31%
Be 313.107†	1232.8	0.0004	mg/L	0.00005	0.0004	mg/L	0.00005	11.17%
Ca 317.933†	1107824.2	44.03	mg/L	0.246	44.03	mg/L	0.246	0.56%
Cd 228.802†	57.8	0.0016	mg/L	0.00032	0.0016	mg/L	0.00032	20.01%
Co 228.616†	855.3	0.0351	mg/L	0.00061	0.0351	mg/L	0.00061	1.73%
Cr 267.716†	2353.1	0.0442	mg/L	0.00026	0.0442	mg/L	0.00026	0.59%
Cu 327.393†	3832.4	0.0461	mg/L	0.00066	0.0461	mg/L	0.00066	1.43%
Fe 238.204†	469589.1	22.59	mg/L	0.106	22.59	mg/L	0.106	0.47%
K 766.490†	601223.5	41.95	mg/L	0.910	41.95	mg/L	0.910	2.17%
Mg 285.213†	3584549.7	65.76	mg/L	0.239	65.76	mg/L	0.239	0.36%
Mn 257.610†	95016.1	0.8314	mg/L	0.00327	0.8314	mg/L	0.00327	0.39%
Mo 202.031†	724.2	0.0387	mg/L	0.00075	0.0387	mg/L	0.00075	1.93%
Na 589.592†	Saturated3							
Ni 231.604†	2147.6	0.0580	mg/L	0.00077	0.0580	mg/L	0.00077	1.33%
Pb 220.353†	525.0	0.1006	mg/L	0.00045	0.1006	mg/L	0.00045	0.44%
Sb 206.836†	16.3	0.0062	mg/L	0.00068	0.0062	mg/L	0.00068	10.93%
Se 196.026†	-3.1	0.0122	mg/L	0.00194	0.0122	mg/L	0.00194	15.86%
Sn 189.927†	-19.0	-0.0018	mg/L	0.00103	-0.0018	mg/L	0.00103	56.69%
Ti 337.279†	97328.5	0.9766	mg/L	0.01211	0.9766	mg/L	0.01211	1.24%
Tl 351.924†	-6.0	-0.0002	mg/L	0.00580	-0.0002	mg/L	0.00580	>999.9%
V 290.880†	5009.0	0.0613	mg/L	0.00087	0.0613	mg/L	0.00087	1.43%

Zn 206.200†	201768.2	5.099	mg/L	0.0251	5.099	mg/L	0.0251	0.49%
Zr 343.823†	538.0	0.0017	mg/L	0.00001	0.0017	mg/L	0.00001	0.70%

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Batch ID: AVIO 500
Sequence No.: 96 **Autosampler Location: 88**
Sample ID: 24E1951-01 **Date Collected: 5/28/2024 12:47:57 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 200

Mean Data: 24E1951-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	510871.8	80.6	%	0.70	80.6	%	0.70	0.86%
Y axial	1876797.3	69.3	%	0.55	69.3	%	0.55	0.79%
Ag 328.068†	-971.9	0.0017	mg/L	0.00075	0.0017	mg/L	0.00075	43.17%
Al 396.153†	4809.5	0.0171	mg/L	0.00293	0.0171	mg/L	0.00293	17.14%
As 188.979†	-5.4	-0.0037	mg/L	0.00381	-0.0037	mg/L	0.00381	103.15%
B 208.889†	1710.8	0.2131	mg/L	0.00306	0.2131	mg/L	0.00306	1.44%
Ba 233.527†	973.3	0.0337	mg/L	0.00023	0.0337	mg/L	0.00023	0.68%
Be 313.107†	-1238.2	-0.0006	mg/L	0.00001	-0.0006	mg/L	0.00001	1.07%
Ca 317.933†	17342239.7	689.3	mg/L	5.88	689.3	mg/L	5.88	0.85%
Cd 228.802†	-21.4	-0.0007	mg/L	0.00006	-0.0007	mg/L	0.00006	8.56%
Co 228.616†	-12.5	-0.0005	mg/L	0.00036	-0.0005	mg/L	0.00036	71.80%
Cr 267.716†	76.0	0.0012	mg/L	0.00010	0.0012	mg/L	0.00010	8.21%
Cu 327.393†	-1380.9	-0.0036	mg/L	0.00011	-0.0036	mg/L	0.00011	3.02%
Fe 238.204†	888.9	0.0428	mg/L	0.00078	0.0428	mg/L	0.00078	1.83%
K 766.490†	48857.2	3.409	mg/L	0.0820	3.409	mg/L	0.0820	2.41%
Mg 285.213†	624620.5	11.26	mg/L	0.147	11.26	mg/L	0.147	1.31%
Mn 257.610†	48012.6	0.4198	mg/L	0.00342	0.4198	mg/L	0.00342	0.81%
Mo 202.031†	272.3	0.0145	mg/L	0.00048	0.0145	mg/L	0.00048	3.29%
Na 589.592†	36586956.9	1102	mg/L	19.05	1102	mg/L	19.05	1.73%
Ni 231.604†	117.0	0.0030	mg/L	0.00035	0.0030	mg/L	0.00035	11.39%
Pb 220.353†	-16.1	-0.0030	mg/L	0.00061	-0.0030	mg/L	0.00061	20.28%
Sb 206.836†	8.1	0.0029	mg/L	0.00362	0.0029	mg/L	0.00362	125.18%
Se 196.026†	15.4	0.0085	mg/L	0.00265	0.0085	mg/L	0.00265	31.13%
Sn 189.927†	-75.5	-0.0132	mg/L	0.00121	-0.0132	mg/L	0.00121	9.14%
Ti 337.279†	84.3	0.0008	mg/L	0.00023	0.0008	mg/L	0.00023	27.57%
Tl 351.924†	59.9	0.0245	mg/L	0.00007	0.0245	mg/L	0.00007	0.27%
V 290.880†	468.9	0.0064	mg/L	0.00022	0.0064	mg/L	0.00022	3.38%
Zn 206.200†	787.2	-0.0815	mg/L	0.00171	-0.0815	mg/L	0.00171	2.10%
Zr 343.823†	198.8	0.0010	mg/L	0.00009	0.0010	mg/L	0.00009	8.92%

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Batch ID: AVIO 500
Sequence No.: 97 **Autosampler Location: 89**
Sample ID: 24E1951-02 **Date Collected: 5/28/2024 12:54:17 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 100

Mean Data: 24E1951-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	501700.7	79.2	%	0.25	79.2	%	0.25	0.32%
Y axial	1849934.7	68.3	%	0.98	68.3	%	0.98	1.43%
Ag 328.068†	-958.0	0.0019	mg/L	0.00139	0.0019	mg/L	0.00139	75.00%
Al 396.153†	5661.0	0.0534	mg/L	0.00565	0.0534	mg/L	0.00565	10.57%
As 188.979†	2.0	0.0010	mg/L	0.00221	0.0010	mg/L	0.00221	215.78%
B 208.889†	3710.6	0.4632	mg/L	0.00684	0.4632	mg/L	0.00684	1.48%
Ba 233.527†	693.6	0.0240	mg/L	0.00082	0.0240	mg/L	0.00082	3.41%
Be 313.107†	-1345.6	-0.0007	mg/L	0.00001	-0.0007	mg/L	0.00001	1.41%
Ca 317.933†	17236508.2	685.1	mg/L	3.02	685.1	mg/L	3.02	0.44%
Cd 228.802†	-12.4	-0.0005	mg/L	0.00025	-0.0005	mg/L	0.00025	50.77%
Co 228.616†	38.2	0.0017	mg/L	0.00020	0.0017	mg/L	0.00020	11.79%

Cr 267.716†	104.6	0.0016 mg/L	0.00020	0.0016 mg/L	0.00020	12.61%
Cu 327.393†	-1396.5	-0.0039 mg/L	0.00044	-0.0039 mg/L	0.00044	11.21%
Fe 238.204†	1502.3	0.0723 mg/L	0.00084	0.0723 mg/L	0.00084	1.16%
K 766.490†	265875.2	18.55 mg/L	0.239	18.55 mg/L	0.239	1.29%
Mg 285.213†	811388.7	14.69 mg/L	0.068	14.69 mg/L	0.068	0.47%
Mn 257.610†	96583.9	0.8445 mg/L	0.00229	0.8445 mg/L	0.00229	0.27%
Mo 202.031†	269.7	0.0144 mg/L	0.00061	0.0144 mg/L	0.00061	4.21%
Na 589.592†	36244578.5	1091 mg/L	14.12	1091 mg/L	14.12	1.29%
Ni 231.604†	577.8	0.0152 mg/L	0.00030	0.0152 mg/L	0.00030	1.96%
Pb 220.353†	-17.8	-0.0034 mg/L	0.00033	-0.0034 mg/L	0.00033	9.66%
Sb 206.836†	10.7	0.0037 mg/L	0.00391	0.0037 mg/L	0.00391	104.93%
Se 196.026†	11.0	0.0057 mg/L	0.00277	0.0057 mg/L	0.00277	48.18%
Sn 189.927†	-78.0	-0.0137 mg/L	0.00218	-0.0137 mg/L	0.00218	15.96%
Ti 337.279†	209.7	0.0021 mg/L	0.00007	0.0021 mg/L	0.00007	3.21%
Tl 351.924†	60.7	0.0248 mg/L	0.00398	0.0248 mg/L	0.00398	16.04%
V 290.880†	400.1	0.0060 mg/L	0.00061	0.0060 mg/L	0.00061	10.13%
Zn 206.200†	596.9	-0.0854 mg/L	0.00115	-0.0854 mg/L	0.00115	1.35%
Zr 343.823†	272.1	0.0013 mg/L	0.00005	0.0013 mg/L	0.00005	3.67%

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Batch ID: AVIO 500
Sequence No.: 98 **Autosampler Location: 90**
Sample ID: 24E1951-03 **Date Collected: 5/28/2024 1:00:37 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 100

Mean Data: 24E1951-03

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y radial	495675.5	78.2	%	2.22	78.2	%	2.22	2.84%
Y axial	1797527.2	66.4	%	1.21	66.4	%	1.21	1.82%
Ag 328.068†	-997.9	0.0010	mg/L	0.00125	0.0010	mg/L	0.00125	130.14%
Al 396.153†	5791.6	0.0587	mg/L	0.00592	0.0587	mg/L	0.00592	10.09%
As 188.979†	6.5	0.0040	mg/L	0.00454	0.0040	mg/L	0.00454	114.17%
B 208.889†	3871.3	0.4833	mg/L	0.00511	0.4833	mg/L	0.00511	1.06%
Ba 233.527†	3487.4	0.1208	mg/L	0.00444	0.1208	mg/L	0.00444	3.68%
Be 313.107†	-1229.1	-0.0006	mg/L	0.00003	-0.0006	mg/L	0.00003	4.41%
Ca 317.933†	17249731.6	685.6	mg/L	16.63	685.6	mg/L	16.63	2.43%
Cd 228.802†	-15.1	-0.0006	mg/L	0.00034	-0.0006	mg/L	0.00034	52.67%
Co 228.616†	76.1	0.0034	mg/L	0.00041	0.0034	mg/L	0.00041	11.80%
Cr 267.716†	98.5	0.0014	mg/L	0.00009	0.0014	mg/L	0.00009	6.76%
Cu 327.393†	-1446.4	-0.0045	mg/L	0.00036	-0.0045	mg/L	0.00036	8.02%
Fe 238.204†	1966.8	0.0947	mg/L	0.00239	0.0947	mg/L	0.00239	2.53%
K 766.490†	248911.5	17.37	mg/L	0.313	17.37	mg/L	0.313	1.80%
Mg 285.213†	788248.7	14.27	mg/L	0.236	14.27	mg/L	0.236	1.65%
Mn 257.610†	123647.9	1.081	mg/L	0.0056	1.081	mg/L	0.0056	0.52%
Mo 202.031†	251.4	0.0134	mg/L	0.00032	0.0134	mg/L	0.00032	2.37%
Na 589.592†	35870944.2	1080	mg/L	29.49	1080	mg/L	29.49	2.73%
Ni 231.604†	821.2	0.0216	mg/L	0.00040	0.0216	mg/L	0.00040	1.83%
Pb 220.353†	-7.7	-0.0015	mg/L	0.00102	-0.0015	mg/L	0.00102	67.51%
Sb 206.836†	14.0	0.0048	mg/L	0.00188	0.0048	mg/L	0.00188	39.36%
Se 196.026†	11.2	0.0057	mg/L	0.00277	0.0057	mg/L	0.00277	48.66%
Sn 189.927†	-81.2	-0.0142	mg/L	0.00141	-0.0142	mg/L	0.00141	9.92%
Ti 337.279†	136.3	0.0014	mg/L	0.00030	0.0014	mg/L	0.00030	21.72%
Tl 351.924†	51.8	0.0212	mg/L	0.00484	0.0212	mg/L	0.00484	22.87%
V 290.880†	334.9	0.0052	mg/L	0.00115	0.0052	mg/L	0.00115	22.02%
Zn 206.200†	670.0	-0.0825	mg/L	0.00241	-0.0825	mg/L	0.00241	2.92%
Zr 343.823†	256.1	0.0012	mg/L	0.00007	0.0012	mg/L	0.00007	5.42%

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Batch ID: AVIO 500
Sequence No.: 99 **Autosampler Location: 5**
Sample ID: SEQ-CCV@ 23J0975 **Date Collected: 5/28/2024 1:07:03 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time (before sample): 100

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	536949.8	84.8	%	0.71	84.8	%	0.71	0.84%
Y axial	2227094.4	82.3	%	0.95	82.3	%	0.95	1.16%
Ag 328.068†	97233.2	2.165	mg/L	0.0313	2.165	mg/L	0.0313	1.44%
QC value less than the lower limit for Ag 328.068 Recovery = 86.61%								
Al 396.153†	165685.2	6.465	mg/L	0.1981	6.465	mg/L	0.1981	3.06%
QC value less than the lower limit for Al 396.153 Recovery = 64.65%								
As 188.979†	7668.4	4.954	mg/L	0.0639	4.954	mg/L	0.0639	1.29%
QC value within limits for As 188.979 Recovery = 99.08%								
B 208.889†	40035.8	4.707	mg/L	0.0460	4.707	mg/L	0.0460	0.98%
QC value within limits for B 208.889 Recovery = 94.13%								
Ba 233.527†	137184.0	4.753	mg/L	0.0659	4.753	mg/L	0.0659	1.39%
QC value within limits for Ba 233.527 Recovery = 95.06%								
Be 313.107†	9472316.7	4.803	mg/L	0.0304	4.803	mg/L	0.0304	0.63%
QC value within limits for Be 313.107 Recovery = 96.07%								
Ca 317.933†	243018.4	9.659	mg/L	0.0833	9.659	mg/L	0.0833	0.86%
QC value within limits for Ca 317.933 Recovery = 96.59%								
Cd 228.802†	136903.3	5.112	mg/L	0.0454	5.112	mg/L	0.0454	0.89%
QC value within limits for Cd 228.802 Recovery = 102.24%								
Co 228.616†	123029.3	5.308	mg/L	0.0468	5.308	mg/L	0.0468	0.88%
QC value within limits for Co 228.616 Recovery = 106.17%								
Cr 267.716†	279223.7	5.222	mg/L	0.0485	5.222	mg/L	0.0485	0.93%
QC value within limits for Cr 267.716 Recovery = 104.44%								
Cu 327.393†	420274.8	4.931	mg/L	0.0458	4.931	mg/L	0.0458	0.93%
QC value within limits for Cu 327.393 Recovery = 98.62%								
Fe 238.204†	100787.9	4.913	mg/L	0.0595	4.913	mg/L	0.0595	1.21%
QC value within limits for Fe 238.204 Recovery = 98.27%								
K 766.490†	116212.9	8.108	mg/L	0.3962	8.108	mg/L	0.3962	4.89%
QC value less than the lower limit for K 766.490 Recovery = 81.08%								
Mg 285.213†	469238.2	8.592	mg/L	0.1318	8.592	mg/L	0.1318	1.53%
QC value less than the lower limit for Mg 285.213 Recovery = 85.92%								
Mn 257.610†	543722.9	4.754	mg/L	0.0605	4.754	mg/L	0.0605	1.27%
QC value within limits for Mn 257.610 Recovery = 95.09%								
Mo 202.031†	98248.2	5.249	mg/L	0.0510	5.249	mg/L	0.0510	0.97%
QC value within limits for Mo 202.031 Recovery = 104.97%								
Na 589.592†	345483.0	10.40	mg/L	0.218	10.40	mg/L	0.218	2.09%
QC value within limits for Na 589.592 Recovery = 104.02%								
Ni 231.604†	198389.7	5.259	mg/L	0.0457	5.259	mg/L	0.0457	0.87%
QC value within limits for Ni 231.604 Recovery = 105.19%								
Pb 220.353†	24562.6	4.649	mg/L	0.0603	4.649	mg/L	0.0603	1.30%
QC value within limits for Pb 220.353 Recovery = 92.98%								
Sb 206.836†	15414.7	5.041	mg/L	0.0521	5.041	mg/L	0.0521	1.03%
QC value within limits for Sb 206.836 Recovery = 100.81%								
Se 196.026†	8106.7	4.627	mg/L	0.0471	4.627	mg/L	0.0471	1.02%
QC value within limits for Se 196.026 Recovery = 92.54%								
Sn 189.927†	29628.4	5.201	mg/L	0.0645	5.201	mg/L	0.0645	1.24%
QC value within limits for Sn 189.927 Recovery = 104.01%								
Ti 337.279†	484228.2	4.857	mg/L	0.0437	4.857	mg/L	0.0437	0.90%
QC value within limits for Ti 337.279 Recovery = 97.13%								
Tl 351.924†	6266.8	2.632	mg/L	0.0378	2.632	mg/L	0.0378	1.44%
QC value within limits for Tl 351.924 Recovery = 105.28%								
V 290.880†	463651.5	5.187	mg/L	0.0493	5.187	mg/L	0.0493	0.95%
QC value within limits for V 290.880 Recovery = 103.73%								
Zn 206.200†	213297.2	5.416	mg/L	0.0528	5.416	mg/L	0.0528	0.97%
QC value within limits for Zn 206.200 Recovery = 108.31%								
Zr 343.823†	1117504.4	5.442	mg/L	0.0512	5.442	mg/L	0.0512	0.94%
QC value within limits for Zr 343.823 Recovery = 108.85%								

QC Failed. Retry.

Batch ID: AVIO 500
Sequence No.: 100
Sample ID: SEQ-CCV@ 23J0975
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 5/28/2024 1:09:34 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Wash Time (before sample): 100

Mean Data: SEQ-CCV@ 23J0975

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	537888.4	84.9	%	1.47	84.9	%	1.47	1.73%
Y axial	2320186.0	85.7	%	0.76	85.7	%	0.76	0.88%
Ag 328.068†	97554.5	2.172	mg/L	0.0467	2.172	mg/L	0.0467	2.15%
QC value less than the lower limit for Ag 328.068 Recovery = 86.89%								
Al 396.153†	174960.8	6.847	mg/L	0.4289	6.847	mg/L	0.4289	6.26%
QC value less than the lower limit for Al 396.153 Recovery = 68.47%								
As 188.979†	7745.1	5.004	mg/L	0.0830	5.004	mg/L	0.0830	1.66%
QC value within limits for As 188.979 Recovery = 100.08%								
B 208.889†	40488.7	4.763	mg/L	0.0550	4.763	mg/L	0.0550	1.16%
QC value within limits for B 208.889 Recovery = 95.27%								
Ba 233.527†	134671.2	4.666	mg/L	0.1473	4.666	mg/L	0.1473	3.16%
QC value within limits for Ba 233.527 Recovery = 93.32%								
Be 313.107†	9527143.4	4.831	mg/L	0.1131	4.831	mg/L	0.1131	2.34%
QC value within limits for Be 313.107 Recovery = 96.62%								
Ca 317.933†	245465.6	9.756	mg/L	0.0951	9.756	mg/L	0.0951	0.98%
QC value within limits for Ca 317.933 Recovery = 97.56%								
Cd 228.802†	136272.0	5.086	mg/L	0.0500	5.086	mg/L	0.0500	0.98%
QC value within limits for Cd 228.802 Recovery = 101.73%								
Co 228.616†	122804.3	5.298	mg/L	0.0514	5.298	mg/L	0.0514	0.97%
QC value within limits for Co 228.616 Recovery = 105.97%								
Cr 267.716†	278577.0	5.210	mg/L	0.0456	5.210	mg/L	0.0456	0.88%
QC value within limits for Cr 267.716 Recovery = 104.19%								
Cu 327.393†	424788.9	4.984	mg/L	0.0352	4.984	mg/L	0.0352	0.71%
QC value within limits for Cu 327.393 Recovery = 99.68%								
Fe 238.204†	102882.3	5.014	mg/L	0.1030	5.014	mg/L	0.1030	2.05%
QC value within limits for Fe 238.204 Recovery = 100.28%								
K 766.490†	123964.3	8.649	mg/L	0.6613	8.649	mg/L	0.6613	7.65%
QC value less than the lower limit for K 766.490 Recovery = 86.49%								
Mg 285.213†	481829.2	8.823	mg/L	0.2427	8.823	mg/L	0.2427	2.75%
QC value less than the lower limit for Mg 285.213 Recovery = 88.23%								
Mn 257.610†	554694.9	4.850	mg/L	0.0976	4.850	mg/L	0.0976	2.01%
QC value within limits for Mn 257.610 Recovery = 97.01%								
Mo 202.031†	98217.3	5.247	mg/L	0.0519	5.247	mg/L	0.0519	0.99%
QC value within limits for Mo 202.031 Recovery = 104.94%								
Na 589.592†	351268.4	10.58	mg/L	0.409	10.58	mg/L	0.409	3.87%
QC value within limits for Na 589.592 Recovery = 105.76%								
Ni 231.604†	198040.1	5.250	mg/L	0.0514	5.250	mg/L	0.0514	0.98%
QC value within limits for Ni 231.604 Recovery = 105.00%								
Pb 220.353†	24425.8	4.623	mg/L	0.0464	4.623	mg/L	0.0464	1.00%
QC value within limits for Pb 220.353 Recovery = 92.46%								
Sb 206.836†	15570.0	5.092	mg/L	0.0538	5.092	mg/L	0.0538	1.06%
QC value within limits for Sb 206.836 Recovery = 101.83%								
Se 196.026†	8226.0	4.695	mg/L	0.0403	4.695	mg/L	0.0403	0.86%
QC value within limits for Se 196.026 Recovery = 93.90%								
Sn 189.927†	29559.4	5.189	mg/L	0.0434	5.189	mg/L	0.0434	0.84%
QC value within limits for Sn 189.927 Recovery = 103.77%								
Ti 337.279†	487647.2	4.891	mg/L	0.0402	4.891	mg/L	0.0402	0.82%
QC value within limits for Ti 337.279 Recovery = 97.82%								
Tl 351.924†	6326.8	2.657	mg/L	0.0264	2.657	mg/L	0.0264	0.99%
QC value within limits for Tl 351.924 Recovery = 106.29%								
V 290.880†	464531.6	5.196	mg/L	0.0418	5.196	mg/L	0.0418	0.80%
QC value within limits for V 290.880 Recovery = 103.93%								
Zn 206.200†	210737.3	5.351	mg/L	0.0551	5.351	mg/L	0.0551	1.03%
QC value within limits for Zn 206.200 Recovery = 107.02%								
Zr 343.823†	1127303.6	5.490	mg/L	0.0424	5.490	mg/L	0.0424	0.77%
QC value within limits for Zr 343.823 Recovery = 109.80%								

QC Failed. Continue with analysis.

Batch ID: AVIO 500
Sequence No.: 101 **Autosampler Location: 1**
Sample ID: SEQ-CCB@ 23J0970 **Date Collected: 5/28/2024 1:15:27 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**

Dilution: **Sample Prep Vol:**
Wash Time (before sample): 200

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	574556.6	90.7	%	0.29	90.7	%	0.29	0.31%
Y axial	2534213.2	93.6	%	0.23	93.6	%	0.23	0.25%
Ag 328.068†	502.4	0.0112	mg/L	0.00053	0.0112	mg/L	0.00053	4.73%
QC value greater than the upper limit for Ag 328.068 Recovery = Not calculated								
Al 396.153†	-93.8	-0.0040	mg/L	0.00285	-0.0040	mg/L	0.00285	71.61%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	-3.9	-0.0026	mg/L	0.00117	-0.0026	mg/L	0.00117	45.94%
QC value within limits for As 188.979 Recovery = Not calculated								
B 208.889†	25.7	0.0031	mg/L	0.00089	0.0031	mg/L	0.00089	28.62%
QC value within limits for B 208.889 Recovery = Not calculated								
Ba 233.527†	5.1	0.0002	mg/L	0.00013	0.0002	mg/L	0.00013	75.44%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-1638.0	-0.0008	mg/L	0.00004	-0.0008	mg/L	0.00004	4.76%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	-129.4	-0.0051	mg/L	0.00084	-0.0051	mg/L	0.00084	16.28%
QC value within limits for Ca 317.933 Recovery = Not calculated								
Cd 228.802†	-12.1	-0.0004	mg/L	0.00008	-0.0004	mg/L	0.00008	20.33%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	-36.5	-0.0016	mg/L	0.00021	-0.0016	mg/L	0.00021	13.14%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	27.8	0.0005	mg/L	0.00008	0.0005	mg/L	0.00008	14.62%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	-11.0	-0.0001	mg/L	0.00047	-0.0001	mg/L	0.00047	377.82%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 238.204†	36.0	0.0017	mg/L	0.00088	0.0017	mg/L	0.00088	51.54%
QC value within limits for Fe 238.204 Recovery = Not calculated								
K 766.490†	491.0	0.0343	mg/L	0.00479	0.0343	mg/L	0.00479	13.99%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213†	70.7	0.0013	mg/L	0.00017	0.0013	mg/L	0.00017	12.83%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610†	17.0	0.0001	mg/L	0.00007	0.0001	mg/L	0.00007	46.75%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	29.7	0.0016	mg/L	0.00027	0.0016	mg/L	0.00027	17.14%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592†	33968.1	1.023	mg/L	0.0132	1.023	mg/L	0.0132	1.29%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604†	-10.8	-0.0003	mg/L	0.00022	-0.0003	mg/L	0.00022	79.03%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	17.4	0.0033	mg/L	0.00105	0.0033	mg/L	0.00105	31.99%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	7.3	0.0024	mg/L	0.00184	0.0024	mg/L	0.00184	76.91%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	10.7	0.0061	mg/L	0.00123	0.0061	mg/L	0.00123	20.16%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	15.0	0.0026	mg/L	0.00026	0.0026	mg/L	0.00026	10.05%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 337.279†	33.6	0.0003	mg/L	0.00014	0.0003	mg/L	0.00014	42.92%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 351.924†	-6.0	-0.0024	mg/L	0.00345	-0.0024	mg/L	0.00345	142.32%
QC value within limits for Tl 351.924 Recovery = Not calculated								
V 290.880†	-136.1	-0.0015	mg/L	0.00019	-0.0015	mg/L	0.00019	12.39%
QC value within limits for V 290.880 Recovery = Not calculated								
Zn 206.200†	1048.9	0.0264	mg/L	0.00025	0.0264	mg/L	0.00025	0.93%
QC value greater than the upper limit for Zn 206.200 Recovery = Not calculated								
Zr 343.823†	132.0	0.0006	mg/L	0.00009	0.0006	mg/L	0.00009	13.42%
QC Failed. Retry.								

Batch ID: AVIO 500
Sequence No.: 102 **Autosampler Location: 1**
Sample ID: SEQ-CCB@ 23J0970 **Date Collected: 5/28/2024 1:19:46 AM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**

Dilution: **Sample Prep Vol:**
Wash Time (before sample): 200

Mean Data: SEQ-CCB@ 23J0970

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y radial	568198.1	89.7	%	0.34	89.7	%	0.34	0.38%
Y axial	2497222.7	92.3	%	0.75	92.3	%	0.75	0.81%
Ag 328.068†	78.3	0.0017	mg/L	0.00026	0.0017	mg/L	0.00026	15.22%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153†	-5.7	-0.0003	mg/L	0.00237	-0.0003	mg/L	0.00237	780.64%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	-1.8	-0.0012	mg/L	0.00111	-0.0012	mg/L	0.00111	94.37%
QC value within limits for As 188.979 Recovery = Not calculated								
B 208.889†	19.6	0.0024	mg/L	0.00043	0.0024	mg/L	0.00043	17.88%
QC value within limits for B 208.889 Recovery = Not calculated								
Ba 233.527†	4.3	0.0001	mg/L	0.00009	0.0001	mg/L	0.00009	60.71%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-1797.3	-0.0009	mg/L	0.00002	-0.0009	mg/L	0.00002	2.71%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	-129.0	-0.0051	mg/L	0.00129	-0.0051	mg/L	0.00129	25.11%
QC value within limits for Ca 317.933 Recovery = Not calculated								
Cd 228.802†	-14.3	-0.0005	mg/L	0.00012	-0.0005	mg/L	0.00012	23.39%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	-38.4	-0.0017	mg/L	0.00015	-0.0017	mg/L	0.00015	9.05%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	17.7	0.0003	mg/L	0.00018	0.0003	mg/L	0.00018	54.08%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	-76.2	-0.0009	mg/L	0.00012	-0.0009	mg/L	0.00012	13.80%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 238.204†	31.3	0.0015	mg/L	0.00023	0.0015	mg/L	0.00023	15.79%
QC value within limits for Fe 238.204 Recovery = Not calculated								
K 766.490†	435.0	0.0304	mg/L	0.00184	0.0304	mg/L	0.00184	6.06%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 285.213†	52.6	0.0010	mg/L	0.00019	0.0010	mg/L	0.00019	19.42%
QC value within limits for Mg 285.213 Recovery = Not calculated								
Mn 257.610†	-8.1	-0.0001	mg/L	0.00012	-0.0001	mg/L	0.00012	171.75%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	18.7	0.0010	mg/L	0.00028	0.0010	mg/L	0.00028	27.82%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592†	32990.8	0.9933	mg/L	0.00204	0.9933	mg/L	0.00204	0.21%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604†	-10.2	-0.0003	mg/L	0.00010	-0.0003	mg/L	0.00010	38.34%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	14.2	0.0027	mg/L	0.00059	0.0027	mg/L	0.00059	22.10%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	15.0	0.0049	mg/L	0.00251	0.0049	mg/L	0.00251	51.13%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	10.9	0.0062	mg/L	0.00135	0.0062	mg/L	0.00135	21.80%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	12.4	0.0022	mg/L	0.00046	0.0022	mg/L	0.00046	21.32%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 337.279†	19.5	0.0002	mg/L	0.00005	0.0002	mg/L	0.00005	25.91%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 351.924†	5.1	0.0021	mg/L	0.00450	0.0021	mg/L	0.00450	213.70%
QC value within limits for Tl 351.924 Recovery = Not calculated								
V 290.880†	-135.7	-0.0015	mg/L	0.00011	-0.0015	mg/L	0.00011	7.02%
QC value within limits for V 290.880 Recovery = Not calculated								
Zn 206.200†	1001.3	0.0252	mg/L	0.00026	0.0252	mg/L	0.00026	1.01%
QC value greater than the upper limit for Zn 206.200 Recovery = Not calculated								
Zr 343.823†	148.3	0.0007	mg/L	0.00005	0.0007	mg/L	0.00005	7.19%

QC Failed. Continue with analysis.

MERCURY

1 - FORM I
ANALYSIS DATA SHEET
CG-1

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-01
Sampled:	05/08/24 10:15		
% Solids:	66.12		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
7439-97-6	Mercury	0.066	0.015	0.034	1		B375006	05/23/24 15:04	SW-846 7471B

1 - FORM I
ANALYSIS DATA SHEET
CG-2

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-02
Sampled:	05/08/24 10:40		
% Solids:	62.99		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
7439-97-6	Mercury	0.056	0.018	0.039	1		B375006	05/23/24 15:12	SW-846 7471B

1 - FORM I
ANALYSIS DATA SHEET
B1

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-03
Sampled:	05/08/24 13:24		
% Solids:	58.29		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
7439-97-6	Mercury	0.14	0.019	0.042	1		B375006	05/23/24 15:14	SW-846 7471B

1 - FORM I
ANALYSIS DATA SHEET
B1A

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-04
Sampled:	05/08/24 13:27		
% Solids:	85.55		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
7439-97-6	Mercury	0.11	0.013	0.029	1		B375006	05/23/24 15:17	SW-846 7471B

1 - FORM I
ANALYSIS DATA SHEET

SB1

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-05
Sampled:	05/08/24 14:06		
% Solids:	68.35		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
7439-97-6	Mercury	0.063	0.016	0.035	1		B375006	05/23/24 15:19	SW-846 7471B

1 - FORM I
ANALYSIS DATA SHEET

SB1A

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-06
Sampled:	05/08/24 14:19		
% Solids:	72.51		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
7439-97-6	Mercury	0.057	0.015	0.033	1		B375006	05/23/24 15:22	SW-846 7471B

1 - FORM I
ANALYSIS DATA SHEET

SB2

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-07
Sampled:	05/08/24 14:34		
% Solids:	71.00		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
7439-97-6	Mercury	0.083	0.015	0.034	1		B375006	05/23/24 15:25	SW-846 7471B

1 - FORM I
ANALYSIS DATA SHEET
SB2A

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-08
Sampled:	05/08/24 14:34		
% Solids:	80.76		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
7439-97-6	Mercury	0.071	0.013	0.028	1		B375006	05/23/24 15:27	SW-846 7471B

1 - FORM I
ANALYSIS DATA SHEET

SB3

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-09
Sampled:	05/08/24 14:42		
% Solids:	85.00		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
7439-97-6	Mercury	0.048	0.013	0.029	1		B375006	05/23/24 15:30	SW-846 7471B

1 - FORM I
ANALYSIS DATA SHEET

SB3A

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-10
Sampled:	05/08/24 14:42		
% Solids:	83.85		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
7439-97-6	Mercury	0.058	0.012	0.027	1		B375006	05/23/24 15:32	SW-846 7471B

1 - FORM I
ANALYSIS DATA SHEET

SB4

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-11
Sampled:	05/08/24 14:53		
% Solids:	74.07		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
7439-97-6	Mercury	0.15	0.013	0.030	1		B375006	05/23/24 15:35	SW-846 7471B

1 - FORM I
ANALYSIS DATA SHEET

SB4A

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-12
Sampled:	05/08/24 14:53		
% Solids:	77.87		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
7439-97-6	Mercury	0.14	0.014	0.031	1		B375006	05/23/24 15:42	SW-846 7471B

1 - FORM I
ANALYSIS DATA SHEET

SB5

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-13
Sampled:	05/08/24 15:09		
% Solids:	72.52		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
7439-97-6	Mercury	0.068	0.015	0.034	1		B375006	05/23/24 15:45	SW-846 7471B

1 - FORM I
ANALYSIS DATA SHEET

SB5A

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-14
Sampled:	05/08/24 15:15		
% Solids:	76.39		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
7439-97-6	Mercury	0.076	0.014	0.031	1		B375006	05/23/24 15:47	SW-846 7471B

1 - FORM I
ANALYSIS DATA SHEET

SB6

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-15
Sampled:	05/08/24 15:20		
% Solids:	78.48		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
7439-97-6	Mercury	0.069	0.013	0.029	1		B375006	05/23/24 15:50	SW-846 7471B

1 - FORM I
ANALYSIS DATA SHEET
SB6A

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-16
Sampled:	05/08/24 15:22		
% Solids:	80.39		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
7439-97-6	Mercury	0.075	0.014	0.030	1		B375006	05/23/24 15:53	SW-846 7471B

1 - FORM I
ANALYSIS DATA SHEET

SB7

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-17
Sampled:	05/08/24 15:39		
% Solids:	69.34		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
7439-97-6	Mercury	0.071	0.015	0.033	1		B375006	05/23/24 15:55	SW-846 7471B

1 - FORM I
ANALYSIS DATA SHEET
SB7A

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-18
Sampled:	05/08/24 15:57		
% Solids:	80.73		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
7439-97-6	Mercury	0.065	0.014	0.031	1		B375006	05/23/24 15:58	SW-846 7471B

1 - FORM I
ANALYSIS DATA SHEET

DUP

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-19
Sampled:	05/08/24 15:45		
% Solids:	69.57		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
7439-97-6	Mercury	0.064	0.015	0.034	1		B375006	05/23/24 16:00	SW-846 7471B

INITIAL AND CONTINUING CALIBRATION CHECK

SW-846 7471B

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	HG3	Calibration:	UNASSIGNED
		Sequence:	S104927

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
S104927-ICV1	Mercury	4.00	4.05	101	µg/L	+/- 20.00%
S104927-CCV1	Mercury	5.00	4.96	99.1	µg/L	+/- 20.00%
S104927-CCV2	Mercury	5.00	4.90	98.0	µg/L	+/- 20.00%
S104927-CCV3	Mercury	5.00	4.98	99.5	µg/L	+/- 20.00%
S104927-CCV4	Mercury	5.00	4.89	97.8	µg/L	+/- 20.00%
S104927-CCV5	Mercury	5.00	5.17	103	µg/L	+/- 20.00%

FORM 3 - Blank Summary

SW-846 7471B

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Instrument ID:	HG3	Calibration:	UNASSIGNED
Sequence:	S104927		

Lab Sample ID	Analyte	Found	Units	RL	C
S104927-ICB1	Mercury		µg/L	0.30	U
S104927-CCB1	Mercury		µg/L	0.30	U
B375006-BLK1	Mercury		mg/Kg wet	0.022	U
S104927-CCB2	Mercury		µg/L	0.30	U
S104927-CCB3	Mercury		µg/L	0.30	U
S104927-CCB4	Mercury		µg/L	0.30	U

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SB1A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Analysis:	SW-846 7471B
Batch:	B375006	Preparation:	SW-846 7471
% Solids:	72.51	Laboratory ID:	B375006-MS1
Column:		Sample Lab ID:	24E1437-06

ANALYTE	SPIKE ADDED (mg/Kg dry)	SAMPLE CONCENTRATION (mg/Kg dry)	MS CONCENTRATION (mg/Kg dry)	MS % REC.	QC LIMITS REC.
Mercury	0.432	0.0568	0.496	102	80 - 120

ANALYTE	SPIKE ADDED (mg/Kg dry)	MSD CONCENTRATION (mg/Kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
Mercury	0.457	0.504	97.8	1.67	20	80 - 120

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

SW-846 7471B

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Preparation:	SW-846 7471
Batch:	B375006	Laboratory ID:	B375006-BS1
Column:		Initial/Final:	0.0401 g / 50 mL

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCS CONCENTRATION (mg/Kg wet)	LCS % REC.	QC LIMITS REC.
Mercury	11.9	11.8	99.3	67.1 - 131.9

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCSD CONCENTRATION (mg/Kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Mercury	11.9	12.1	102	2.76	20	67.1 - 131.9

PREPARATION BATCH SUMMARY

SW-846 7471B

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Batch:	B375006 Batch Matrix: Soil	Preparation:	SW-846 7471

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
CG-1	24E1437-01	05/21/24 14:46	0.66	50.00
CG-2	24E1437-02	05/21/24 14:46	0.61	50.00
B1	24E1437-03	05/21/24 14:46	0.61	50.00
B1A	24E1437-04	05/21/24 14:46	0.61	50.00
SB1	24E1437-05	05/21/24 14:46	0.63	50.00
SB1A	24E1437-06	05/21/24 14:46	0.63	50.00
SB2	24E1437-07	05/21/24 14:46	0.62	50.00
SB2A	24E1437-08	05/21/24 14:46	0.65	50.00
SB3	24E1437-09	05/21/24 14:46	0.61	50.00
SB3A	24E1437-10	05/21/24 14:46	0.66	50.00
SB4	24E1437-11	05/21/24 14:46	0.67	50.00
SB4A	24E1437-12	05/21/24 14:46	0.63	50.00
SB5	24E1437-13	05/21/24 14:46	0.61	50.00
SB5A	24E1437-14	05/21/24 14:46	0.62	50.00
SB6	24E1437-15	05/21/24 14:46	0.66	50.00
SB6A	24E1437-16	05/21/24 14:46	0.61	50.00
SB7	24E1437-17	05/21/24 14:46	0.66	50.00
SB7A	24E1437-18	05/21/24 14:46	0.61	50.00
DUP	24E1437-19	05/21/24 14:46	0.64	50.00
Blank	B375006-BLK1	05/21/24 14:46	0.68	50.00
LCS	B375006-BS1	05/21/24 14:46	0.04	50.00
LCS Dup	B375006-BSD1	05/21/24 14:46	0.04	50.00
SB1A	B375006-MS1	05/21/24 14:46	0.64	50.00
SB1A	B375006-MSD1	05/21/24 14:46	0.60	50.00

ANALYSIS SEQUENCE

S104927

Instrument: HG3

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
S104927-ICV1	QC		1		24E0698		
S104927-CCV1	QC		2		24E0697		
S104927-ICB1	QC		3		24E0699		
S104927-CCV2	QC		4		24E0697		
S104927-CCB1	QC		5		24E0699		
B375006-BLK1	QC		6				
B375006-BS1	QC		7				
B375006-BSD1	QC		8				
B375006-MS1	QC		9				
B375006-MSD1	QC		10				
24E1437-01	Mercury 7470/7471 Total	A	11				CAT B
S104927-CCV3	QC		12		24E0697		
S104927-CCB2	QC		13		24E0699		
24E1437-02	Mercury 7470/7471 Total	A	14				CAT B
24E1437-03	Mercury 7470/7471 Total	A	15				CAT B
24E1437-04	Mercury 7470/7471 Total	A	16				CAT B
24E1437-05	Mercury 7470/7471 Total	A	17				CAT B
24E1437-06	Mercury 7470/7471 Total	A	18				CAT B
24E1437-07	Mercury 7470/7471 Total	A	19				CAT B
24E1437-08	Mercury 7470/7471 Total	A	20				CAT B
24E1437-09	Mercury 7470/7471 Total	A	21				CAT B
24E1437-10	Mercury 7470/7471 Total	A	22				CAT B
24E1437-11	Mercury 7470/7471 Total	A	23				CAT B
S104927-CCV4	QC		24		24E0697		
S104927-CCB3	QC		25		24E0699		
24E1437-12	Mercury 7470/7471 Total	A	26				CAT B
24E1437-13	Mercury 7470/7471 Total	A	27				CAT B
24E1437-14	Mercury 7470/7471 Total	A	28				CAT B
24E1437-15	Mercury 7470/7471 Total	A	29				CAT B
24E1437-16	Mercury 7470/7471 Total	A	30				CAT B
24E1437-17	Mercury 7470/7471 Total	A	31				CAT B
24E1437-18	Mercury 7470/7471 Total	A	32				CAT B
24E1437-19	Mercury 7470/7471 Total	A	33				CAT B

Samples Loaded By Date

Data Processed By Date

ANALYSIS SEQUENCE

S104927

Instrument: HG3

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Extraction Comments
S104927-CCV5	QC		34		24E0697		
S104927-CCB4	QC		35		24E0699		

Samples Loaded By Date

Data Processed By Date

Report Generated By Teledyne Leeman QuickTrace 4022

Analyst: LEEMAN,

Worksheet file: C:\Users\Public\Documents\Teledyne CETAC\QuickTrace\Worksheets\2024\MAY\0523A24.wszf

Creation Date: 5/23/2024 7:37:28 AM

Comment:

Results

Sample Name					Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
Calibration Blank					STD	05/23/24 07:56:50 am	0.0000	57	13.50			1.0000	N/A
Replicates	45.5	60.2	58.0	62.7									
Standard #1 (0.2 ppb)					STD	05/23/24 07:59:22 am	0.2000	3391	0.70	-31.74%		1.0000	N/A
Replicates	3362.3	3382.2	3415.4	3405.7									
Standard #2 (0.5 ppb)					STD	05/23/24 08:01:55 am	0.5000	9480	0.58	-5.24%		1.0000	N/A
Replicates	9402.5	9477.5	9517.0	9522.5									
Standard #3 (1 ppb)					STD	05/23/24 08:04:27 am	1.0000	18561	0.69	-2.31%		1.0000	N/A
Replicates	18397.8	18533.9	18611.4	18701.6									
Standard #4 (2 ppb)					STD	05/23/24 08:07:01 am	2.0000	37740	0.08	1.96%		1.0000	N/A
Replicates	37739.6	37731.4	37708.4	37781.6									
Standard #5 (5 ppb)					STD	05/23/24 08:09:34 am	5.0000	95689	0.75	4.99%		1.0000	N/A
Replicates	94774.9	95516.4	96010.9	96454.4									
Standard #6 (10 ppb)					STD	05/23/24 08:13:41 am	10.0000	179141	0.74	-1.28%		1.0000	N/A
Replicates	177466.5	178780.5	179770.2	180548.7									

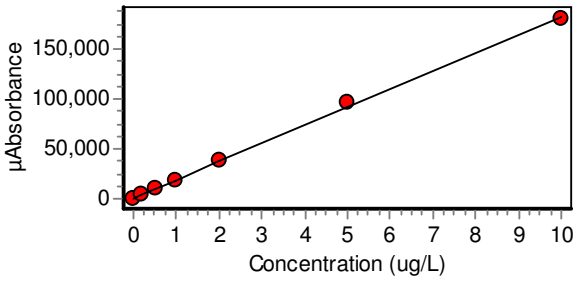
Calibration

Equation: Abs = 18051.929x + 926.972

R2: 0.99891 RSE: 16.36%

SEE: 2389.8530

Flags:



APPROVED By AMV at 2:59 pm, 5/31/24

SEQ-ICV					ICV	05/23/24 09:13:14 am	4.0547	74122	0.68	APPROVED By AMV at 2:59 pm, 5/31/24		1.0000	101.37
Replicates	73513.1	73974.0	74325.7	74676.7									
SEQ-CCV@INITIAL					CCV	05/23/24 09:15:47 am	4.9550	90374	0.86	APPROVED By AMV at 2:59 pm, 5/31/24		1.0000	99.10
Replicates	89428.4	90128.7	90715.9	91224.9									
SEQ-ICB					ICB	05/23/24 09:18:19 am	-0.0566	-95	0.84	APPROVED By AMV at 2:59 pm, 5/31/24		1.0000	N/A
Replicates	-106.4	-91.3	-86.0	-95.0									
B375007-BLK1					UNK	05/23/24 09:20:50 am	-0.0329	334	1.73			1.0000	N/A
Replicates	341.0	340.0	335.0	318.8									
B375007- BS1					UNK	05/23/24 09:23:22 am	4.0642	74293	0.94			1.0000	N/A
Replicates	73459.5	74076.8	74572.3	75064.3									
B375007-BSD1					UNK	05/23/24 09:25:53 am	4.0894	74748	0.80			1.0000	N/A
Replicates	74007.6	74603.1	75001.6	75381.3									

Sample Name					Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
B375007-MS1					UNK	05/23/24 09:28:25 am	4.1788	76362	0.70			1.0000	N/A
	Replicates	75702.6	76223.3	76589.0	76933.5								
B375007-MSD1					UNK	05/23/24 09:30:57 am	4.1943	76643	0.82			1.0000	N/A
	Replicates	75877.7	76455.2	76916.4	77322.2								
24E1460-01					UNK	05/23/24 09:33:29 am	-0.0408	191	0.33			1.0000	N/A
	Replicates	192.3	187.3	191.0	192.5								
24E1460-02					UNK	05/23/24 09:36:01 am	-0.0332	329	2.88			1.0000	N/A
	Replicates	308.9	344.5	341.5	319.2								
24E1460-03					UNK	05/23/24 09:38:34 am	-0.0322	346	1.84			1.0000	N/A
	Replicates	340.7	350.3	335.3	359.5								
24E1460-04					UNK	05/23/24 09:41:06 am	-0.0314	360	1.45			1.0000	N/A
	Replicates	351.8	367.4	353.9	366.7								
24E1460-05					UNK	05/23/24 09:43:39 am	-0.0274	432	3.05			1.0000	N/A
	Replicates	450.2	439.3	420.0	419.5								
SEQ-CCV					CCV	05/23/24 09:46:12 am	5.1500	93895	0.50		APPROVED By AMV at 2:59 pm, 5/31/24	1.0000	103.00
	Replicates	93318.8	93772.2	94068.9	94419.9								
SEQ-CCB					CCB	05/23/24 09:48:44 am	-0.0539	-47	0.43		APPROVED By AMV at 2:59 pm, 5/31/24	1.0000	N/A
	Replicates	-44.4	-43.2	-52.7	-46.7								
24E1460-06					UNK	05/23/24 09:51:16 am	-0.0339	315	1.44			1.0000	N/A
	Replicates	305.2	326.5	316.5	313.3								
24E1460-07					UNK	05/23/24 09:53:49 am	-0.0320	350	1.83			1.0000	N/A
	Replicates	338.4	344.0	357.7	360.2								
24E1460-08					UNK	05/23/24 09:56:21 am	-0.0302	381	1.10			1.0000	N/A
	Replicates	383.8	386.2	372.5	381.5								
24E1460-09					UNK	05/23/24 09:58:52 am	-0.0350	296	1.20			1.0000	N/A
	Replicates	295.8	285.6	303.9	297.9								
24E1460-10					UNK	05/23/24 10:01:24 am	-0.0326	338	2.64			1.0000	N/A
	Replicates	327.6	361.0	329.3	334.5								
24E1460-11					UNK	05/23/24 10:03:56 am	-0.0334	324	1.85			1.0000	N/A
	Replicates	326.1	316.7	338.2	313.2								
24E1460-12					UNK	05/23/24 10:06:27 am	-0.0342	309	1.40			1.0000	N/A
	Replicates	299.4	306.6	320.1	310.1								
24E1460-13					UNK	05/23/24 10:09:00 am	-0.0335	323	2.32			1.0000	N/A
	Replicates	323.0	309.9	342.1	315.9								
24E1460-14					UNK	05/23/24 10:11:32 am	-0.0295	394	4.54			1.0000	N/A
	Replicates	362.9	389.1	419.6	404.4								
24E1460-15					UNK	05/23/24 10:14:04 am	-0.0067	807	3.27			1.0000	N/A
	Replicates	808.0	802.9	804.9	811.9								

Sample Name				Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual Flags	DF	% Recovery
SEQ-CCV				CCV	05/23/24 10:16:37 am	4.9453	90200	0.51	APPROVED By AMV at 2:59 pm, 5/31/24	1.0000	98.91
Replicates	89646.6	90073.2	90371.7	90708.2							
SEQ-CCB				CCB	05/23/24 10:19:09 am	-0.0551	-68	1.87	APPROVED By AMV at 2:59 pm, 5/31/24	1.0000	N/A
Replicates	-41.9	-67.5	-75.5	-85.2							
24E1460-16				UNK	05/23/24 10:21:41 am	-0.0209	550	3.11		1.0000	N/A
Replicates	539.4	545.6	547.9	566.6							
24E1460-17				UNK	05/23/24 10:24:14 am	-0.0103	741	3.11		1.0000	N/A
Replicates	734.6	746.9	745.4	738.7							
24E1970-06				UNK	05/23/24 10:26:47 am	-0.0160	638	5.05		1.0000	N/A
Replicates	618.6	652.7	644.7	637.2							
B375029-BLK1				UNK	05/23/24 10:29:19 am	-0.0335	322	1.67		1.0000	N/A
Replicates	332.9	316.4	311.6	328.9							
B375029- BS1				UNK	05/23/24 10:31:52 am	4.0841	74653	0.89		1.0000	N/A
Replicates	73840.0	74474.3	74918.1	75378.6							
B375029-BSD1				UNK	05/23/24 10:34:24 am	4.1677	76162	0.85		1.0000	N/A
Replicates	75373.0	75972.5	76442.8	76858.0							
B375029-MS1				UNK	05/23/24 10:36:57 am	3.9678	72553	1.24		1.0000	N/A
Replicates	71449.4	72291.0	72954.8	73517.5							
B375029-DUP1				UNK	05/23/24 10:39:30 am	-0.0432	147	1.24		1.0000	N/A
Replicates	133.6	151.4	147.9	155.9							
24E2170-01				UNK	05/23/24 10:42:02 am	-0.0371	257	3.36		1.0000	N/A
Replicates	253.7	287.1	254.3	232.6							
24E2507-01				UNK	05/23/24 10:44:35 am	-0.0344	305	2.21		1.0000	N/A
Replicates	305.2	309.5	320.0	287.0							
SEQ-CCV				CCV	05/23/24 10:47:08 am	5.0951	92902	1.06	APPROVED By AMV at 2:59 pm, 5/31/24	1.0000	101.90
Replicates	91705.5	92587.6	93354.1	93962.6							
SEQ-CCB				CCB	05/23/24 10:49:40 am	-0.0550	-66	0.78	APPROVED By AMV at 2:59 pm, 5/31/24	1.0000	N/A
Replicates	-57.5	-70.1	-61.1	-74.1							
24E2507-02				UNK	05/23/24 10:52:13 am	-0.0363	272	1.72		1.0000	N/A
Replicates	265.1	286.8	261.8	275.5							
24E2507-03				UNK	05/23/24 10:54:45 am	-0.0378	245	1.86		1.0000	N/A
Replicates	244.4	257.1	250.6	227.6							
24E2507-04				UNK	05/23/24 10:57:18 am	-0.0397	210	3.02		1.0000	N/A
Replicates	225.0	217.6	220.3	178.1							
24E2507-05				UNK	05/23/24 10:59:50 am	-0.0355	286	1.48		1.0000	N/A
Replicates	293.7	292.2	283.2	273.2							
24E2507-06				UNK	05/23/24 11:02:23 am	-0.0370	259	1.72		1.0000	N/A
Replicates	245.3	256.0	263.0	272.5							

Sample Name					Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual Flags	DF	% Recovery
24E2590-01					UNK	05/23/24 11:04:55 am	-0.0339	316	1.28		1.0000	N/A
Replicates	319.3	323.8	305.6	314.3								
B375012-BLK1					UNK	05/23/24 11:07:28 am	-0.0249	477	1.35		1.0000	N/A
Replicates	468.5	478.0	479.0	482.8								
B375012- BS1					UNK	05/23/24 11:10:00 am	4.0620	74253	0.39		1.0000	N/A
Replicates	73887.5	74184.8	74412.8	74527.5								
B375012-BSD1					UNK	05/23/24 11:12:31 am	4.0642	74293	0.87		1.0000	N/A
Replicates	73509.0	74096.8	74586.8	74979.1								
B375012-MS1					UNK	05/23/24 11:15:02 am	3.9590	72395	0.49		1.0000	N/A
Replicates	71921.3	72359.4	72600.9	72699.6								
SEQ-CCV					CCV	05/23/24 11:17:36 am	5.0627	92318	0.68	APPROVED By AMV at 2:59 pm, 5/31/24	1.0000	101.25
Replicates	91528.5	92171.6	92608.9	92962.4								
SEQ-CCB					CCB	05/23/24 11:20:08 am	-0.0539	-46	1.56	APPROVED By AMV at 2:59 pm, 5/31/24	1.0000	N/A
Replicates	-36.5	-54.1	-62.6	-29.9								
B375012-DUP1					UNK	05/23/24 11:22:39 am	-0.0269	442	4.45		1.0000	N/A
Replicates	442.0	470.6	418.4	437.9								
24E2339-09					UNK	05/23/24 11:25:11 am	-0.0253	470	3.03		1.0000	N/A
Replicates	467.4	469.7	487.4	453.7								
24E2339-10					UNK	05/23/24 11:27:43 am	-0.0212	545	2.98		1.0000	N/A
Replicates	543.0	529.7	551.5	555.5								
24E2392-01					UNK	05/23/24 11:30:15 am	-0.0262	454	2.14		1.0000	N/A
Replicates	442.8	449.3	466.5	456.3								
24E2392-02					UNK	05/23/24 11:32:48 am	-0.0222	527	3.88		1.0000	N/A
Replicates	505.2	529.6	530.4	542.1								
24E2392-03					UNK	05/23/24 11:35:20 am	-0.0242	490	3.44		1.0000	N/A
Replicates	490.1	472.0	489.8	508.8								
24E2392-04					UNK	05/23/24 11:37:53 am	-0.0294	397	0.99		1.0000	N/A
Replicates	400.3	391.6	392.9	402.1								
24E2392-05					UNK	05/23/24 11:40:26 am	-0.0265	448	2.26		1.0000	N/A
Replicates	439.1	441.8	447.3	463.3								
24E2392-06					UNK	05/23/24 11:43:50 am	-0.0299	387	2.95		1.0000	N/A
Replicates	410.0	381.6	382.6	373.3								
24E2392-07					UNK	05/23/24 11:46:22 am	-0.0116	718	4.21		1.0000	N/A
Replicates	721.6	723.9	704.6	720.6								
SEQ-CCV					CCV	05/23/24 11:48:55 am	4.7784	87186	0.16	APPROVED By AMV at 2:59 pm, 5/31/24	1.0000	95.57
Replicates	86989.1	87181.7	87272.7	87300.2								
SEQ-CCB					CCB	05/23/24 11:51:27 am	-0.0536	-40	1.69	APPROVED By AMV at 2:59 pm, 5/31/24	1.0000	N/A
Replicates	-23.9	-32.8	-41.3	-62.0								

Sample Name					Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
24E2392-08					UNK	05/23/24 11:53:59 am	-0.0272	436	3.31			1.0000	N/A
	Replicates	421.1	425.2	443.5	456.0								
B375014-BLK1					UNK	05/23/24 11:56:30 am	-0.0264	450	1.87			1.0000	N/A
	Replicates	458.4	456.6	444.4	440.4								
B375014- BS1					UNK	05/23/24 11:59:02 am	4.0371	73804	0.95			1.0000	N/A
	Replicates	72932.7	73621.4	74103.4	74558.9								
B375014-BSD1					UNK	05/23/24 12:01:34 pm	4.1893	76552	0.84			1.0000	N/A
	Replicates	75761.7	76383.2	76829.5	77235.5								
B375014-MS1					UNK	05/23/24 12:04:06 pm	4.0415	73883	0.93			1.0000	N/A
	Replicates	73032.4	73695.1	74187.3	74617.6								
B375014-DUP1					UNK	05/23/24 12:06:38 pm	-0.0461	95	0.51			1.0000	N/A
	Replicates	91.1	100.9	96.6	93.4								
24E2193-01					UNK	05/23/24 12:09:10 pm	-0.0385	233	2.46			1.0000	N/A
	Replicates	251.1	219.7	216.5	243.0								
24E2193-02					UNK	05/23/24 12:11:43 pm	-0.0357	282	0.83			1.0000	N/A
	Replicates	280.4	290.3	279.3	279.3								
24E2193-03					UNK	05/23/24 12:14:16 pm	-0.0369	262	2.12			1.0000	N/A
	Replicates	257.6	273.9	243.4	271.6								
24E2193-04					UNK	05/23/24 12:31:51 pm	-0.0335	322	3.05			1.0000	N/A
	Replicates	340.3	316.0	332.0	298.5								
SEQ-CCV					CCV	05/23/24 12:34:25 pm	5.1517	93925	0.82		APPROVED By AMV at 2:59 pm, 5/31/24	1.0000	103.03
	Replicates	92972.1	93709.8	94295.0	94722.8								
SEQ-CCB					CCB	05/23/24 12:36:59 pm	-0.0518	-9	0.48		APPROVED By AMV at 2:59 pm, 5/31/24	1.0000	N/A
	Replicates	-3.4	-9.8	-6.8	-14.1								
B375018-BLK1					UNK	05/23/24 12:39:32 pm	-0.0353	289	2.19			1.0000	N/A
	Replicates	269.6	300.4	288.4	297.9								
B375018- BS1					UNK	05/23/24 12:42:04 pm	4.3545	79535	0.25			1.0000	N/A
	Replicates	79242.3	79577.5	79679.2	79639.2								
B375018-BSD1					UNK	05/23/24 12:44:36 pm	4.2907	78382	0.91			1.0000	N/A
	Replicates	77501.1	78173.4	78724.9	79130.4								
B375018-MS1					UNK	05/23/24 12:47:08 pm	4.2185	77078	0.88			1.0000	N/A
	Replicates	76253.5	76882.1	77366.9	77811.1								
B375018-DUP1					UNK	05/23/24 12:49:40 pm	-0.0446	122	1.26			1.0000	N/A
	Replicates	124.4	118.5	111.3	135.3								
24E2152-01					UNK	05/23/24 12:52:12 pm	-0.0381	240	2.88			1.0000	N/A
	Replicates	216.1	242.4	236.1	264.1								
24E2152-02					UNK	05/23/24 12:54:44 pm	-0.0342	309	3.07			1.0000	N/A
	Replicates	315.4	322.4	316.6	280.6								

Sample Name		Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual Flags	DF	% Recovery
B375020-BLK1		UNK	05/23/24 12:57:16 pm	-0.0353	289	1.61		1.0000	N/A
Replicates	297.0	277.2	283.4	297.9					
B375020- BS1		UNK	05/23/24 12:59:48 pm	4.1841	76458	0.70		1.0000	N/A
Replicates	75809.1	76285.8	76693.6	77042.6					
B375020-BSD1		UNK	05/23/24 01:02:21 pm	4.0636	74282	0.93		1.0000	N/A
Replicates	73447.3	74063.0	74582.0	75035.8					
SEQ-CCV		CCV	05/23/24 01:04:55 pm	5.1023	93033	0.83	APPROVED By AMV at 2:59 pm, 5/31/24	1.0000	102.05
Replicates	92070.5	92831.8	93383.6	93847.6					
SEQ-CCB		CCB	05/23/24 01:07:30 pm	-0.0536	-41	0.57	APPROVED By AMV at 2:59 pm, 5/31/24	1.0000	N/A
Replicates	-47.9	-43.7	-37.7	-35.7					
B375020-MS1		UNK	05/23/24 01:10:02 pm	4.1080	75085	0.96		1.0000	N/A
Replicates	74210.6	74859.3	75421.5	75848.3					
B375020-DUP1		UNK	05/23/24 01:12:35 pm	-0.0418	172	3.08		1.0000	N/A
Replicates	168.6	199.3	178.5	143.3					
24E1753-01		UNK	05/23/24 01:15:08 pm	-0.0334	323	3.70		1.0000	N/A
Replicates	334.3	300.4	309.2	348.9					
24E1753-02		UNK	05/23/24 01:17:41 pm	-0.0336	320	1.84		1.0000	N/A
Replicates	327.7	305.5	329.7	317.0					
B375022-BLK1		UNK	05/23/24 01:20:13 pm	-0.0364	270	1.55		1.0000	N/A
Replicates	266.1	265.8	262.8	285.0					
B375022- BS1		UNK	05/23/24 01:22:45 pm	4.0880	74722	0.89		1.0000	N/A
Replicates	73898.1	74546.8	75019.0	75425.5					
B375022-BSD1		UNK	05/23/24 01:25:17 pm	4.2586	77802	0.89		1.0000	N/A
Replicates	76932.3	77626.7	78122.5	78526.7					
B375022-MS1		UNK	05/23/24 01:27:50 pm	4.1921	76603	0.92		1.0000	N/A
Replicates	75723.2	76427.1	76917.3	77343.1					
B375022-DUP1		UNK	05/23/24 01:30:22 pm	-0.0429	152	2.33		1.0000	N/A
Replicates	170.5	152.1	127.4	157.1					
24E2506-01		UNK	05/23/24 01:32:54 pm	-0.0337	318	1.33		1.0000	N/A
Replicates	325.0	323.7	317.9	307.2					
SEQ-CCV		CCV	05/23/24 01:35:29 pm	4.9633	90524	1.01	APPROVED By AMV at 2:59 pm, 5/31/24	1.0000	99.27
Replicates	89401.9	90259.9	90950.7	91484.7					
SEQ-CCB		CCB	05/23/24 01:38:03 pm	-0.0534	-37	0.73	APPROVED By AMV at 2:59 pm, 5/31/24	1.0000	N/A
Replicates	-29.2	-33.3	-42.3	-43.8					
24E2509-01		UNK	05/23/24 01:40:35 pm	-0.0352	291	2.71		1.0000	N/A
Replicates	277.7	274.4	309.1	301.6					
B375023-BLK1		UNK	05/23/24 01:43:08 pm	-0.0349	297	0.89		1.0000	N/A
Replicates	302.1	290.1	295.4	301.4					

Sample Name					Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
B375023- BS1					UNK	05/23/24 01:45:41 pm	4.2640	77900	1.01			1.0000	N/A
Replicates	76931.8	77676.5	78246.7	78746.0									
B375023-BSD1					UNK	05/23/24 01:48:14 pm	4.1861	76494	0.93			1.0000	N/A
Replicates	75620.2	76301.5	76799.7	77256.0									
B375023-MS1					UNK	05/23/24 01:50:47 pm	4.1324	75525	0.94			1.0000	N/A
Replicates	74645.3	75341.2	75838.0	76276.5									
B375023-DUP1					UNK	05/23/24 01:53:19 pm	-0.0365	268	1.56			1.0000	N/A
Replicates	258.1	261.0	278.5	275.7									
24E1922-01					UNK	05/23/24 01:55:51 pm	-0.0263	452	3.79			1.0000	N/A
Replicates	437.5	441.5	453.5	477.5									
24E1922-02					UNK	05/23/24 01:58:23 pm	-0.0262	455	3.59			1.0000	N/A
Replicates	457.8	458.9	430.9	471.1									
24E1922-03					UNK	05/23/24 02:00:56 pm	-0.0263	452	3.60			1.0000	N/A
Replicates	427.8	458.2	467.7	454.2									
B375027-BLK1					UNK	05/23/24 02:03:28 pm	-0.0301	383	3.31			1.0000	N/A
Replicates	393.1	399.1	358.4	383.4									
SEQ-CCV					CCV	05/23/24 02:06:02 pm	4.5367	82823	1.55		APPROVED By AMV at 2:59 pm, 5/31/24	1.0000	90.73
Replicates	81270.0	82426.5	83368.0	84226.5									
SEQ-CCB					CCB	05/23/24 02:08:37 pm	-0.0520	-12	1.57		APPROVED By AMV at 2:59 pm, 5/31/24	1.0000	N/A
Replicates	-31.0	0.6	-0.9	-14.9									
B375027- BS1					UNK	05/23/24 02:11:09 pm	4.1123	75162	0.95			1.0000	N/A
Replicates	74271.9	74964.7	75505.7	75904.7									
B375027-BSD1					UNK	05/23/24 02:13:41 pm	4.1327	75531	1.03			1.0000	N/A
Replicates	74584.6	75297.3	75867.5	76374.8									
B375027-MS1					UNK	05/23/24 02:16:13 pm	4.2951	78463	0.77			1.0000	N/A
Replicates	77667.1	78363.6	78808.1	79011.4									
B375027-DUP1					UNK	05/23/24 02:18:46 pm	-0.0412	183	1.12			1.0000	N/A
Replicates	186.5	170.4	187.1	187.6									
24E2370-01					UNK	05/23/24 02:21:19 pm	-0.0329	332	1.68			1.0000	N/A
Replicates	319.0	330.6	342.1	337.1									
24E2370-02					UNK	05/23/24 02:23:51 pm	-0.0328	335	2.61			1.0000	N/A
Replicates	330.8	330.1	320.9	356.9									
B375025-BLK1					UNK	05/23/24 02:26:24 pm	-0.0345	305	3.07			1.0000	N/A
Replicates	328.9	311.1	287.3	291.8									
B375025- BS1					UNK	05/23/24 02:28:57 pm	4.0937	74825	0.93			1.0000	N/A
Replicates	73979.4	74616.0	75124.0	75582.0									
B375025-BSD1					UNK	05/23/24 02:31:29 pm	4.3358	79197	0.86			1.0000	N/A
Replicates	78350.2	79031.0	79487.0	79919.5									

Sample Name					Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual Flags	DF	% Recovery
B375025-MS1					UNK	05/23/24 02:34:02 pm	4.1711	76224	0.96		1.0000	N/A
Replicates	75317.2	76016.5	76561.3	76999.5								
SEQ-CCV					CCV	05/23/24 02:36:36 pm	4.8980	89345	1.11	APPROVED By AMV at 2:59 pm, 5/31/24	1.0000	97.96
Replicates	88146.4	89038.1	89770.8	90424.3								
SEQ-CCB					CCB	05/23/24 02:39:10 pm	-0.0553	-71	0.90	APPROVED By AMV at 2:59 pm, 5/31/24	1.0000	N/A
Replicates	-64.8	-62.2	-76.2	-80.9								
B375025-DUP1					UNK	05/23/24 02:41:43 pm	-0.0338	317	1.35		1.0000	N/A
Replicates	313.4	306.8	322.8	324.3								
24E2159-01					UNK	05/23/24 02:44:15 pm	-0.0327	336	1.01		1.0000	N/A
Replicates	340.4	339.3	337.3	327.3								
24E2159-02					UNK	05/23/24 02:46:48 pm	-0.0328	334	3.57		1.0000	N/A
Replicates	314.5	364.2	332.0	327.0								
24E2159-03					UNK	05/23/24 02:49:20 pm	-0.0318	353	1.79		1.0000	N/A
Replicates	354.8	343.4	367.2	348.4								
B375006-BLK1					UNK	05/23/24 02:51:53 pm	-0.0317	354	2.38		1.0000	N/A
Replicates	344.0	361.4	341.4	369.6								
B375006-BS1@5X					UNK	05/23/24 02:54:26 pm	1.8946	35129	1.14		1.0000	N/A
Replicates	34651.0	35000.7	35322.7	35540.9								
B375006-BSD1@5X					UNK	05/23/24 02:56:58 pm	1.9428	35998	1.13		1.0000	N/A
Replicates	35496.1	35899.3	36181.5	36414.3								
B375006-MS1					UNK	05/23/24 02:59:31 pm	4.5939	83856	1.06		1.0000	N/A
Replicates	82762.4	83600.2	84247.4	84813.9								
B375006-MSD1					UNK	05/23/24 03:02:04 pm	4.4097	80531	1.20		1.0000	N/A
Replicates	79371.3	80220.9	80953.9	81578.1								
24E1437-01					UNK	05/23/24 03:04:37 pm	0.5780	11361	1.11		1.0000	N/A
Replicates	11214.3	11339.6	11399.4	11491.4								
SEQ-CCV					CCV	05/23/24 03:07:11 pm	4.9765	90763	1.32	APPROVED By AMV at 2:59 pm, 5/31/24	1.0000	99.53
Replicates	89364.2	90330.4	91223.9	92133.9								
SEQ-CCB					CCB	05/23/24 03:09:45 pm	-0.0538	-45	1.69	APPROVED By AMV at 2:59 pm, 5/31/24	1.0000	N/A
Replicates	-29.1	-59.8	-57.8	-31.8								
24E1437-02					UNK	05/23/24 03:12:18 pm	0.4296	8682	0.15		1.0000	N/A
Replicates	8686.4	8694.7	8681.2	8666.7								
24E1437-03					UNK	05/23/24 03:14:51 pm	0.9793	18605	1.12		1.0000	N/A
Replicates	18358.0	18546.9	18700.7	18812.9								
24E1437-04					UNK	05/23/24 03:17:24 pm	1.1575	21823	1.06		1.0000	N/A
Replicates	21550.7	21756.3	21918.3	22066.0								
24E1437-05					UNK	05/23/24 03:19:57 pm	0.5389	10655	1.06		1.0000	N/A
Replicates	10526.2	10635.4	10685.7	10773.4								

Sample Name		Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
24E1437-06		UNK	05/23/24 03:22:30 pm	0.5177	10273	0.80			1.0000	N/A
Replicates	10172.5	10281.4	10283.9	10352.9						
24E1437-07		UNK	05/23/24 03:25:02 pm	0.7232	13983	1.60			1.0000	N/A
Replicates	13728.8	13915.6	14072.9	14214.1						
24E1437-08		UNK	05/23/24 03:27:35 pm	0.7471	14414	1.08			1.0000	N/A
Replicates	14240.2	14365.8	14472.0	14579.5						
24E1437-09		UNK	05/23/24 03:30:08 pm	0.4926	9819	1.02			1.0000	N/A
Replicates	9703.9	9796.1	9863.1	9913.1						
24E1437-10		UNK	05/23/24 03:32:41 pm	0.6481	12627	0.91			1.0000	N/A
Replicates	12484.0	12613.3	12678.8	12730.3						
24E1437-11		UNK	05/23/24 03:35:14 pm	1.4500	27103	1.04			1.0000	N/A
Replicates	26774.1	26999.4	27244.9	27392.9						
SEQ-CCV		CCV	05/23/24 03:37:47 pm	4.8890	89183	0.36		APPROVED By AMV at 2:59 pm, 5/31/24	1.0000	97.78
Replicates	88895.6	88998.6	89219.4	89618.1						
SEQ-CCB		CCB	05/23/24 03:40:19 pm	-0.0225	520	5.66		APPROVED By AMV at 2:59 pm, 5/31/24	1.0000	N/A
Replicates	541.3	489.6	534.1	516.1						
24E1437-12		UNK	05/23/24 03:42:52 pm	1.4093	26367	0.70			1.0000	N/A
Replicates	26207.2	26256.1	26404.8	26601.1						
24E1437-13		UNK	05/23/24 03:45:25 pm	0.6062	11870	1.06			1.0000	N/A
Replicates	11726.5	11836.0	11921.0	11998.0						
24E1437-14		UNK	05/23/24 03:47:58 pm	0.7208	13938	1.17			1.0000	N/A
Replicates	13755.1	13901.5	13975.7	14120.5						
24E1437-15		UNK	05/23/24 03:50:31 pm	0.7117	13774	1.17			1.0000	N/A
Replicates	13596.1	13716.7	13837.0	13944.7						
24E1437-16		UNK	05/23/24 03:53:04 pm	0.7416	14314	1.11			1.0000	N/A
Replicates	14135.0	14269.3	14366.5	14484.5						
24E1437-17		UNK	05/23/24 03:55:37 pm	0.6467	12602	1.85			1.0000	N/A
Replicates	12327.0	12546.1	12711.1	12823.4						
24E1437-18		UNK	05/23/24 03:58:10 pm	0.6353	12396	1.08			1.0000	N/A
Replicates	12234.5	12375.9	12444.7	12527.9						
24E1437-19		UNK	05/23/24 04:00:43 pm	0.5672	11166	1.20			1.0000	N/A
Replicates	11008.8	11130.5	11244.8	11279.0						
SEQ-CCV		CCV	05/23/24 04:07:30 pm	5.1674	94208	1.52		APPROVED By AMV at 2:59 pm, 5/31/24	1.0000	103.35
Replicates	92389.7	93861.3	94909.0	95672.3						
SEQ-CCB		CCB	05/23/24 04:10:02 pm	-0.0213	543	1.93		APPROVED By AMV at 2:59 pm, 5/31/24	1.0000	N/A
Replicates	533.8	542.8	551.8	544.6						

WET

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

SW-846 9014

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Preparation:	SW-846 9010C
Batch:	B374399	Laboratory ID:	B374399-BS1
Column:		Initial/Final:	1.0006 g / 50 mL

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCS CONCENTRATION (mg/Kg wet)	LCS % REC.		QC LIMITS REC.
Cyanide	131	5.0 U	0	*	80 - 120

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCSD CONCENTRATION (mg/Kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Cyanide	131	150	114		30	80 - 120

1 - FORM I
ANALYSIS DATA SHEET
CG-2

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-02
Sampled:	05/08/24 10:40		
% Solids:	62.99		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
57-12-5	Cyanide	0.88	0.59	0.78	1		B374146	05/14/24 11:01	SW-846 9014

1 - FORM I
ANALYSIS DATA SHEET
B1A

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-04
Sampled:	05/08/24 13:27		
% Solids:	85.55		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
57-12-5	Cyanide		0.41	0.55	1		B374399	05/16/24 12:12	SW-846 9014

1 - FORM I
ANALYSIS DATA SHEET
SB1A

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-06
Sampled:	05/08/24 14:19		
% Solids:	72.51		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
57-12-5	Cyanide		0.48	0.64	1		B374146	05/14/24 11:01	SW-846 9014

1 - FORM I
ANALYSIS DATA SHEET
SB4A

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-12
Sampled:	05/08/24 14:53		
% Solids:	77.87		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
57-12-5	Cyanide		0.44	0.59	1		B374399	05/16/24 12:12	SW-846 9014

1 - FORM I
ANALYSIS DATA SHEET
SB7

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-17
Sampled:	05/08/24 15:39		
% Solids:	69.34		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
57-12-5	Cyanide	0.53	0.49	0.65	1	J	B374399	05/16/24 12:12	SW-846 9014

1 - FORM I
ANALYSIS DATA SHEET
DUP

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-19
Sampled:	05/08/24 15:45		
% Solids:	69.57		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
57-12-5	Cyanide		0.53	0.70	1		B374399	05/16/24 12:12	SW-846 9014

FORM 3 - Blank Summary

SW-846 9014

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634

Lab Sample ID	Analyte	Found	Units	RL	C
B374146-BLK1	Cyanide		mg/Kg wet	0.49	U

FORM 3 - Blank Summary

SW-846 9014

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634

Lab Sample ID	Analyte	Found	Units	RL	C
B374399-BLK1	Cyanide		mg/Kg wet	0.48	U

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SB1A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Analysis:	SW-846 9014
Batch:	B374146	Preparation:	SW-846 9010C
% Solids:	72.51	Laboratory ID:	B374146-MS1
Column:		Sample Lab ID:	24E1437-06

ANALYTE	SPIKE ADDED (mg/Kg dry)	SAMPLE CONCENTRATION (mg/Kg dry)	MS CONCENTRATION (mg/Kg dry)	MS % REC.	QC LIMITS REC.
Cyanide	19.9	ND	20	102	75 - 125

ANALYTE	SPIKE ADDED (mg/Kg dry)	MSD CONCENTRATION (mg/Kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
Cyanide	18.2	18	101	9.48	35	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

B1A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Analysis:	SW-846 9014
Batch:	B374399	Preparation:	SW-846 9010C
% Solids:	85.55	Laboratory ID:	B374399-MS1
Column:		Sample Lab ID:	24E1437-04

ANALYTE	SPIKE ADDED (mg/Kg dry)	SAMPLE CONCENTRATION (mg/Kg dry)	MS CONCENTRATION (mg/Kg dry)	MS % REC.	QC LIMITS REC.
Cyanide	17.5	ND	18	106	75 - 125

ANALYTE	SPIKE ADDED (mg/Kg dry)	MSD CONCENTRATION (mg/Kg dry)	MSD % REC. #	% RPD	QC LIMITS RPD	QC LIMITS REC.
Cyanide	17.1	17	98.2	9.33	35	75 - 125

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

SW-846 9014

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Preparation:	SW-846 9010C
Batch:	B374146	Laboratory ID:	B374146-BS1
Column:		Initial/Final:	1.0112 g / 50 mL

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCS CONCENTRATION (mg/Kg wet)	LCS % REC.	QC LIMITS REC.
Cyanide	130	150	117	80 - 120

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCSD CONCENTRATION (mg/Kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Cyanide	130	120	94.2	21.0	30	80 - 120

3 - FORM III

LCS / LCS DUPLICATE RECOVERY

SW-846 9014

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Preparation:	SW-846 9010C
Batch:	B374399	Laboratory ID:	B374399-BS1
Column:		Initial/Final:	1.0006 g / 50 mL

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCS CONCENTRATION (mg/Kg wet)	LCS % REC.		QC LIMITS REC.
Cyanide	131	5.0 U	0	*	80 - 120

ANALYTE	SPIKE ADDED (mg/Kg wet)	LCSD CONCENTRATION (mg/Kg wet)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Cyanide	131	150	114		30	80 - 120

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Pace New England
Work Order: 24E1437
Client: NYS Division of Environmental Remediation
Matrix: Soil
Instrument: INST

Analyte	MDL	MRL	Units	Method
Cyanide	0.38	0.50	mg/Kg	SW-846 9014

PREPARATION BATCH SUMMARY

SW-846 9014

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Batch:	B374146 Batch Matrix: Soil	Preparation:	SW-846 9010C

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
CG-2	24E1437-02	05/13/24 13:32	1.01	50.00
SB1A	24E1437-06	05/13/24 13:32	1.08	50.00
Blank	B374146-BLK1	05/13/24 13:32	1.03	50.00
LCS	B374146-BS1	05/13/24 13:32	1.01	50.00
LCS Dup	B374146-BSD1	05/13/24 13:32	1.01	50.00
SB1A	B374146-MS1	05/13/24 13:32	1.04	50.00
SB1A	B374146-MSD1	05/13/24 13:32	1.14	50.00

PREPARATION BATCH SUMMARY

SW-846 9014

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Batch:	B374399 Batch Matrix: Soil	Preparation:	SW-846 9010C

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
B1A	24E1437-04	05/15/24 17:09	1.07	50.00
SB4A	24E1437-12	05/15/24 17:09	1.09	50.00
SB7	24E1437-17	05/15/24 17:09	1.10	50.00
DUP	24E1437-19	05/15/24 17:09	1.03	50.00
Blank	B374399-BLK1	05/15/24 17:09	1.04	50.00
LCS	B374399-BS1	05/15/24 17:09	1.00	50.00
LCS Dup	B374399-BSD1	05/15/24 17:09	1.00	50.00
B1A	B374399-MS1	05/15/24 17:09	1.00	50.00
B1A	B374399-MSD1	05/15/24 17:09	1.02	50.00

PREPARATION BENCH SHEET

B374146

Pace New England

rinted: 5/16/2024 7:07:28AM

4048

Matrix: Soil **Prepared using: WET CHEMISTRY - SW-846 9010C** **(No Surrogate)**

Lab Number	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	Code 128	Extraction Comments
24E1322-01	Cyanide, Total by SW8	05/13/24 13:32	1.0174	50						
24E1397-01	Cyanide, Total by SW8	05/13/24 13:32	1.0136	50						
24E1397-02	Cyanide, Total by SW8	05/13/24 13:32	1.1948	50						
24E1437-02	Cyanide, Total by SW8	05/13/24 13:32	1.013	50						CAT B
24E1437-06	Cyanide, Total by SW8	05/13/24 13:32	1.0757	50						CAT B
B374146-BLK1	QC	05/13/24 13:32	1.0283	50						
B374146-BS1	QC	05/13/24 13:32	1.0112	50	2306991		1000			
B374146-BSD1	QC	05/13/24 13:32	1.0056	50	2306991		1000			
B374146-MS1	QC	05/13/24 13:32	1.0381	50	24E0275	24E1437-06	1500			
B374146-MSD1	QC	05/13/24 13:32	1.1389	50	24E0275	24E1437-06	1500			

Distillation: 5/13/24 11:32 - 13:32
Spec: 5/14/24 11:01 - 12:55
Gen 30 #3
Epp: TU06334
Epp: TU155750
STD CN Stock:24E0273
STD CN QC:24E0274
Analyst: DET
Date: 5/14/24

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

4049

Import Spec. - WC_Water

Initial Calibration Date:		**Test Code:**	
Analyst:	DET	**Prep Date/Time:**	5/13/24 13:32
		Analysis Date/Time:	5/14/24 11:01
Analyte:	Cyanide	**Units:**	mg/Kg
Method:	SW 846 9014		

Measured Response	Standards I.D.	Actual Concentration	Calculated Value (linear)
0.010		0.00	0.004
0.022		0.01	0.013
0.142		0.10	0.095
0.301		0.20	0.204
0.708		0.50	0.483
1.043		0.70	0.712

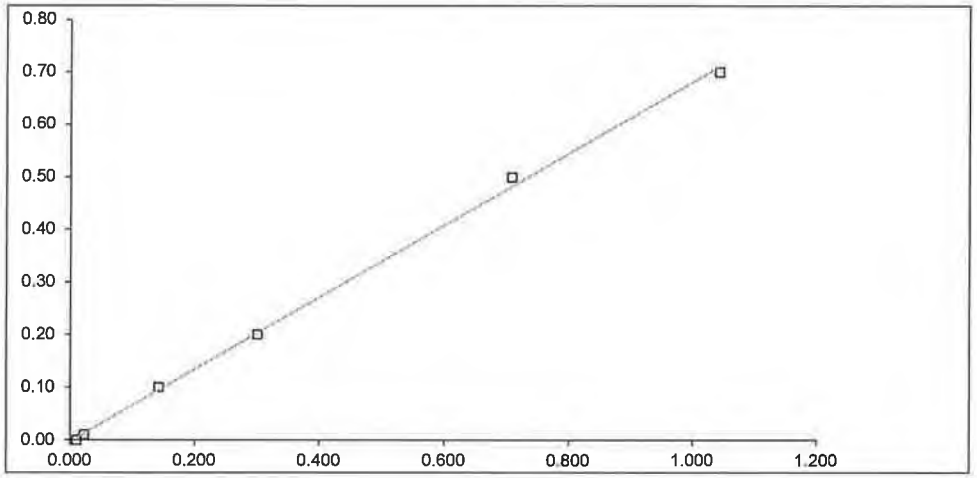
Batch ID: B374146

LINEAR EQUATION

y=a+bx

a=	0.0036966
b=	1.4594838
r=	0.9993708

√ 60



Volume Initial
Volume Final

Checked by:
Maria Hill MAY 15 2024

Calculation: Hex Chrome mg/L = (Raw value from curve) * DF

Calculation: Hex Chrome mg/kg = (Raw value from curve) * (Extract Vol./Sample Wt.) * DF

4050

A	B	C	D	E	F	G	H	I	J	K	L	M	N
Import Spec. - WC_Water													
Sample #	Sample ID	Client ID	SampType	Response (abs)	Analytical Time	Sample Aliquot (gms)	Sample Vol (mls)	Extraction Volume (mls)	DF	Analyte	Net DF	RawVal	Final Conc. mg/L
24E1322-01		Soil Matrix- Meads	Sample	0.016	5/14/24 11:01	1.0174		50	1		1	0.00842999	0
24E1397-01		HB-1 (3-5 FTBG)	Sample	0.010	5/14/24 11:03	1.0136		50	1		1.003749	0.00431895	0
24E1397-02		HB-1 (0-0.5FTBG)	Sample	0.010	5/14/24 11:05	1.1948		50	1		0.851523	0.00431895	0
24E1437-02		CG-2	Sample	0.020	5/14/24 11:07	1.013		50	1		1.004344	0.01117068	0
24E1437-06		SB1A	Sample	0.011	5/14/24 11:09	1.0757		50	1		0.945803	0.00500412	0
B374146-BLK1		-	Blank	0.008	5/14/24 11:11	1.0283		50	1		0.9894	0.0029486	0
B374146-BS1		-	LCS	0.451	5/14/24 11:13	1.0112		50	10		10.06131	0.30648057	0
B374146-BSD1		-	LCS Dup	0.364	5/14/24 11:15	1.0056		50	10		10.11734	0.24687045	0
B374146-MS1		24E1437-06	Matrix Spike	0.449	5/14/24 11:17	1.0381		50	1		0.98006	0.30511022	0
B374146-MSD1		24E1437-06	Matrix Spike Dup	0.448	5/14/24 11:19	1.1389		50	1		0.893318	0.30442504	0

Checked by:
Maria Hill MAY 15 2024

4051

Checked by:
Maria Hill

MAY 15 2024

4052

O
Final Conc. mg/kg
0.41429084
0.2130499
0.18073935
0.55136648
0.23259837
0.14337256
151.543001
122.747837
14.6956082
13.3648716

Checked by:
Maria Hill MAY 15 2024

4053

Cyanide Distillation Sheet BLOCK 2

Curve

0	0.010	
0.01	0.022	125%
0.1	0.142	95%
0.2	0.301	102%
0.5	0.708	97%
0.7	1.043	103%

R=0.999370769 JDC

0.25N NaOH	24E0372
Sulfamic Acid	24B0775
18N H_2SO4	24E0106
MgCl	24C0182
Eppendorfs	TV06334/TV155750
Pyradine	24E0014
BUFFER	24D0672
Chlormine T	24E0428

Distill Start:	5/13/24 11:32
Distill Stop:	5/13/24 13:32
Spec Start:	5/14/24 11:01
Spec End:	5/14/24 12:55
Spec Used:	Gen30 #3
PAC buffer	N/A
Prussian Blue	N/A

All samples checked with KI and Lead Acetate strips:	✓
All samples PH checked and were >12	✓

#	ID	ABS	Weight
1	B	0.008	1.0283
2	LCS	2.587	1.0112
3	LCSD	2.505	1.0056
4	1322-1	0.016	1.0174
5	1397-1	0.010	1.0136
6	1397-2	0.010	1.1948
7	1437-2	0.020	1.0130
8	1437-6	0.011	1.0757
9	MS	0.449	1.0381
10	MSD	0.448	1.1389

10X=0.451
10X=0.364

#	ID	ABS	Weight
1	1437-4		
2	-12 Unbalanced		
3	-17 DET 5/13/24		
4	-19		
5			
6			
7			
8			
9			
10			

#	ID	ABS	Weight
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

#	ID	ABS	Weight
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

ICV TV=0.3	0.475	108% ✓
CCV TV= 0.3	0.460	104% ✓
CCB	0.006	✓

CCV TV= 0.3	
CCB	

CCV TV= 0.3	
CCB	

CCV TV= 0.3	
CCB	

Spike Witness: MVP 5/13/24
Balance: B-WET 003
Analyst: DET
Date: 5/14/24
Batch: B374146

Checked by:
Maria Hill MAY 15 2024

PREPARATION BENCH SHEET

B374399

Pace New England

rinted: 5/17/2024 12:39:10PM

7054

Matrix: Soil **Prepared using: WET CHEMISTRY - SW-846 9010C** **(No Surrogate)**

Lab Number	Analysis	Prepared	Initial (g)	Final (mL)	Spike ID	Source ID	ul Spike	ul Surrogate	Code 128	Extraction Comments
24E1437-04	Cyanide, Total by SW8	05/15/24 17:09	1.0663	50						CAT B
24E1437-12	Cyanide, Total by SW8	05/15/24 17:09	1.0923	50						CAT B
24E1437-17	Cyanide, Total by SW8	05/15/24 17:09	1.1048	50						CAT B
24E1437-19	Cyanide, Total by SW8	05/15/24 17:09	1.0289	50						CAT B
24E1690-02	Cyanide, Total by SW8	05/15/24 17:09	1.0356	50						CAT B - Rpt to MDL
24E1690-03	Cyanide, Total by SW8	05/15/24 17:09	1.2125	50						CAT B - Rpt to MDL
24E1872-01	Cyanide, Total by SW8	05/15/24 17:09	1.0762	50						
24E1872-02	Cyanide, Total by SW8	05/15/24 17:09	1.0036	50						
B374399-BLK1	QC	05/15/24 17:09	1.0385	50						
B374399-BS1	QC	05/15/24 17:09	1.0006	50	2306991		1000			
B374399-BSD1	QC	05/15/24 17:09	1.0018	50	2306991		1000			
B374399-MS1	QC	05/15/24 17:09	1.0042	50	24E0553	24E1437-04	1500			
B374399-MSD1	QC	05/15/24 17:09	1.0239	50	24E0553	24E1437-04	1500			

Distillation: 5/15/24 12:24 - 17:09
Spec: 5/16/24 12:12 - 14:22
Gen 30 #3
Epp: TU06334
Epp: TU155750
STD CN Stock:24E0551
STD CN QC:24E0552
Analyst: DET
Date: 5/16/24

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

4055

Import Spec. - WC_Water

Initial Calibration Date:		**Test Code:**	
Analyst:	DET	**Prep Date/Time:**	5/15/24 17:09
		Analysis Date/Time:	5/16/24 12:12
Analyte:	Cyanide	**Units:**	mg/Kg
Method:	SW 846 9014		

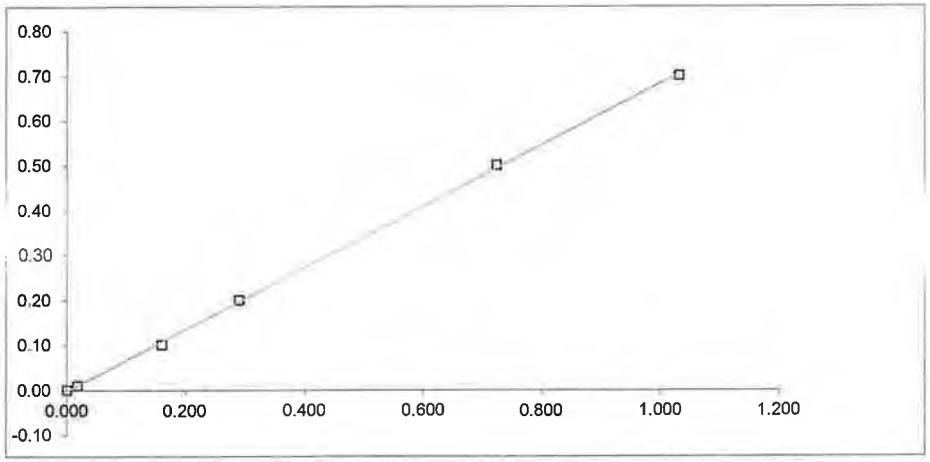
Measured Response	Standards I.D.	Actual Concentration	Calculated Value (linear)
0.000		0.00	-0.002
0.018		0.01	0.010
0.160		0.10	0.107
0.290		0.20	0.197
0.723		0.50	0.493
1.032		0.70	0.705

Batch ID: B374399

LINEAR EQUATION

y=a+bx

a=	0.0031260
b=	1.4597643
r=	0.9998260



Volume Initial

Volume Final

Calculation: Hex Chrome mg/L = (Raw value from curve) * DF
Calculation: Hex Chrome mg/kg = (Raw value from curve) * (Extract Vol./Sample Wt.) * DF

4056

Import Spec. - WC_Water

Sample #	Sample ID	Client ID	SampType	Response (abs)	Analytical Time	Sample Aliquot (gms)	Sample Vol (mls)	Extraction Volume (mls)	DF	Analyte	Net DF	RawVal	Final Conc. mg/L	Final Conc. mg/kg
24E1437-04		B1A	Sample	0.010	5/16/24 12:12	1.0663		50	1		1	0.00470899	0	0.22080962
24E1437-12		SB4A	Sample	0.005	5/16/24 12:14	1.0923		50	1		0.976197	0.00128378	0	0.05876478
24E1437-17		SB7	Sample	0.015	5/16/24 12:16	1.1048		50	1		0.965152	0.0081342	0	0.36812982
24E1437-19		DUP	Sample	0.012	5/16/24 12:18	1.0289		50	1		1.036349	0.00607907	0	0.29541598
24E1690-02		HP-OB8-SO07-051024	Sample	0.002	5/16/24 12:20	1.0356		50	1		1.029645	-0.0007714	0	-0.0372417
24E1690-03		HP-OB8-SO11-051024	Sample	0.001	5/16/24 12:22	1.2125		50	1		0.879423	-0.0014564	0	-0.0600574
24E1872-01		UST-284-TSP-R	Sample	0.101	5/16/24 12:24	1.0058		50	10		10.60151	0.06704782	0	33.3305915
24E1872-02		UST-284-TSP-F	Sample	0.145	5/16/24 12:26	1.0762		50	10		9.90801	0.09718967	0	45.1540935
B374399-BLK1		-	Blank	0.001	5/16/24 12:28	1.0385		50	1		1.026769	-0.0014564	0	-0.07012
B374399-BS1		-	LCS	0.001	5/16/24 12:30	1.0006		50	10		10.65661	-0.0014564	0	-0.7277599
B374399-BSD1		-	LCS Dup	0.439	5/16/24 12:32	1.0018		50	10		10.64384	0.29859205	0	149.027776
B374399-MS1		24E1437-04	Matrix Spike	0.466	5/16/24 12:34	1.0042		50	1		1.06184	0.31708819	0	15.7880994
B374399-MSD1		24E1437-04	Matrix Spike Dup	0.433	5/16/24 12:36	1.0239		50	1		1.04141	0.2944818	0	14.3803984

(middletown)

Cyanide Distillation Sheet BLOCK 3

4057

Curve

0	0.000	
0.01	0.018	102%
0.1	0.160	107%
0.2	0.290	98%
0.5	0.723	99%
0.7	1.032	101%

R= 0.999826044

10x

0.25N NaOH	24E0372
Sulfamic Acid	24B0775
18N H_2SO_4	24E0106
MgCl	24C0182
Eppendorfs	TV15822/TV155750
Pyradine	24E0510
BUFFER	24E0511
Chlormine T	24E0955

Distill Start:	5/15/24 12:24
Distill Stop:	5/15/24 17:09
Spec Start:	5/16/24 12:12
Spec End:	5/16/24 14:22
Spec Used:	Gen 20#3
PAC buffer	N/A
Prussian Blue	N/A

All samples checked with KI and Lead Acetate strips:	✓
All samples PH checked and were >12	✓

Checked by: Maria Hill MAY 17 2024

#	ID	ABS	Weight
1	B	0.001	1.0385
2	LCS	0.005	1.0006
3	LCSD	2.344	1.0018
4	1437-X	0.010	1.0663
5	-12	0.005	1.0923
6	-17	0.015	1.1048
7	-19	0.012	1.0289
8	M7	0.466	1.0042
9	MSD	0.433	1.0239
10	1690-2	0.002	1.0356

10X=0.001
10X=0.439

		ABS	Weight
1	1690-3	0.001	1.2125
2	~~1690-5~~		
3	~~1690-6~~		
4	1872-1	1.066	1.0058
5	1872-1Am	0.002	1.0363
6	1872-2	1.380	1.0762
7	1872-2Am	0.002	1.0036
8			
9			
10			

		ABS	Weight
1			
2			
3			
4	10X= 0.101		
5			
6	10X= 0.145		
7			
8			
9			
10			

		ABS	Weight
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

ICV TV=0.3	0.477 (108%) ✓
CCV TV= 0.3	0.426 (97%) ✓
CCB	0.000 ✓

CCV TV= 0.3	0.443
CCB	0.000

CCV TV= 0.3	
CCB	

CCV TV= 0.3	
CCB	

Spike Witness: BC 5/15/24
Balance: B.WET003
Analyst: DET
Date: 5/16/24
Batch: B374399 / B374404

WET

SAMPLE DATA

1 - FORM I
ANALYSIS DATA SHEET
CG-1

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-01
Sampled:	05/08/24 10:15		
% Solids:	66.12		

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	66.1			1		B374255	05/13/24 17:51	SM 2540G

1 - FORM I
ANALYSIS DATA SHEET
CG-2

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-02
Sampled:	05/08/24 10:40		
% Solids:	62.99		

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	63.0			1		B374255	05/13/24 17:51	SM 2540G

1 - FORM I
ANALYSIS DATA SHEET
B1

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-03
Sampled:	05/08/24 13:24		
% Solids:	58.29		

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	58.3			1		B374255	05/13/24 17:51	SM 2540G

1 - FORM I
ANALYSIS DATA SHEET
B1A

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-04
Sampled:	05/08/24 13:27		
% Solids:	85.55		

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	85.5			1		B374255	05/13/24 17:51	SM 2540G

1 - FORM I
ANALYSIS DATA SHEET
SB1

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-05
Sampled:	05/08/24 14:06		
% Solids:	68.35		

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	68.3			1		B374255	05/13/24 17:51	SM 2540G

1 - FORM I
ANALYSIS DATA SHEET
SB1A

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-06
Sampled:	05/08/24 14:19		
% Solids:	72.51		

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	72.5			1		B374255	05/13/24 17:51	SM 2540G

1 - FORM I
ANALYSIS DATA SHEET
SB2

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-07
Sampled:	05/08/24 14:34		
% Solids:	71.00		

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	71.0			1		B374255	05/13/24 17:51	SM 2540G

1 - FORM I
ANALYSIS DATA SHEET
SB2A

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-08
Sampled:	05/08/24 14:34		
% Solids:	80.76		

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	80.8			1		B374255	05/13/24 17:51	SM 2540G

1 - FORM I
ANALYSIS DATA SHEET
SB3

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-09
Sampled:	05/08/24 14:42		
% Solids:	85.00		

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	85.0			1		B374255	05/13/24 17:51	SM 2540G

1 - FORM I
ANALYSIS DATA SHEET
SB3A

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-10
Sampled:	05/08/24 14:42		
% Solids:	83.85		

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	83.9			1		B374255	05/13/24 17:51	SM 2540G

1 - FORM I
ANALYSIS DATA SHEET
SB4

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-11
Sampled:	05/08/24 14:53		
% Solids:	74.07		

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	74.1			1		B374255	05/13/24 17:51	SM 2540G

1 - FORM I
ANALYSIS DATA SHEET
SB4A

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-12
Sampled:	05/08/24 14:53		
% Solids:	77.87		

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	77.9			1		B374255	05/13/24 17:51	SM 2540G

1 - FORM I
ANALYSIS DATA SHEET
SB5

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-13
Sampled:	05/08/24 15:09		
% Solids:	72.52		

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	72.5			1		B374255	05/13/24 17:51	SM 2540G

1 - FORM I
ANALYSIS DATA SHEET
SB5A

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-14
Sampled:	05/08/24 15:15		
% Solids:	76.39		

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	76.4			1		B374255	05/13/24 17:51	SM 2540G

1 - FORM I
ANALYSIS DATA SHEET
SB6

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-15
Sampled:	05/08/24 15:20		
% Solids:	78.48		

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	78.5			1		B374255	05/13/24 17:51	SM 2540G

1 - FORM I
ANALYSIS DATA SHEET
SB6A

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-16
Sampled:	05/08/24 15:22		
% Solids:	80.39		

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	80.4			1		B374255	05/13/24 17:51	SM 2540G

1 - FORM I
ANALYSIS DATA SHEET
SB7

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-17
Sampled:	05/08/24 15:39		
% Solids:	69.34		

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	69.3			1		B374255	05/13/24 17:51	SM 2540G

1 - FORM I
ANALYSIS DATA SHEET
SB7A

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-18
Sampled:	05/08/24 15:57		
% Solids:	80.73		

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	80.7			1		B374255	05/13/24 17:51	SM 2540G

1 - FORM I
ANALYSIS DATA SHEET
DUP

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-19
Sampled:	05/08/24 15:45		
% Solids:	69.57		

CAS NO.	Analyte	Concentration (% Wt)	MDL	RL	DF	Q	Batch	Analyzed	Method
TSOLIDS	% Solids	69.6			1		B374255	05/13/24 17:51	SM 2540G

DUPLICATES

SB1A

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	B374255-DUP1
Batch:	B374255	Initial/Final:	5 g / 5 g
Preparation:	% Solids	Analysis:	SM 2540G
% Solids:	72.51		

ANALYTE	SAMPLE CONCENTRATION (% Wt)	DUPLICATE CONCENTRATION (% Wt)	RPD %	Q	CONTROL LIMIT
% Solids	72.5	73.0	0.662		10

PREPARATION BATCH SUMMARY

SM 2540G

Laboratory:	Pace New England	Work Order:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Batch:	B374255 Batch Matrix: Soil	Preparation:	% Solids

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
CG-1	24E1437-01	05/13/24 17:51	5.00	5.00
CG-2	24E1437-02	05/13/24 17:51	5.00	5.00
B1	24E1437-03	05/13/24 17:51	5.00	5.00
B1A	24E1437-04	05/13/24 17:51	5.00	5.00
SB1	24E1437-05	05/13/24 17:51	5.00	5.00
SB1A	24E1437-06	05/13/24 17:51	5.00	5.00
SB2	24E1437-07	05/13/24 17:51	5.00	5.00
SB2A	24E1437-08	05/13/24 17:51	5.00	5.00
SB3	24E1437-09	05/13/24 17:51	5.00	5.00
SB3A	24E1437-10	05/13/24 17:51	5.00	5.00
SB4	24E1437-11	05/13/24 17:51	5.00	5.00
SB4A	24E1437-12	05/13/24 17:51	5.00	5.00
SB5	24E1437-13	05/13/24 17:51	5.00	5.00
SB5A	24E1437-14	05/13/24 17:51	5.00	5.00
SB6	24E1437-15	05/13/24 17:51	5.00	5.00
SB6A	24E1437-16	05/13/24 17:51	5.00	5.00
SB7	24E1437-17	05/13/24 17:51	5.00	5.00
SB7A	24E1437-18	05/13/24 17:51	5.00	5.00
DUP	24E1437-19	05/13/24 17:51	5.00	5.00
SB1A	B374255-DUP1	05/13/24 17:51	5.00	5.00

Percent Moisture/ Percent Solids

D2216-90

Analyst: AGG **Test Code:** %Moist/%Solids **Batch ID:** B374255

Analyte: **Units:** %

Dried at 105°C

TEMP IN: 104 °C

analyst	sample#	dish	Units	dish&sample	Units	time	date	sample	dried dish&sample	Units	time	date	dried sample	% solid
AGG	24E1437-01	1.2910	g	12.0110	g	18:28	05/13/2024	10.7200	8.3790	g	09:25	05/14/2024	7.09	66.12
AGG	24E1437-02	1.2980	g	11.8920	g	18:29	05/13/2024	10.5940	7.9710	g	09:25	05/14/2024	6.67	62.99
AGG	24E1437-03	1.2960	g	11.2020	g	18:29	05/13/2024	9.9060	7.0700	g	09:25	05/14/2024	5.77	58.29
AGG	24E1437-04	1.2980	g	11.1920	g	18:31	05/13/2024	9.8940	9.7620	g	09:25	05/14/2024	8.46	85.55
AGG	24E1437-05	1.2970	g	14.2500	g	18:31	05/13/2024	12.9530	10.1500	g	09:25	05/14/2024	8.85	68.35
AGG	24E1437-06	1.2930	g	11.9410	g	18:33	05/13/202	10.6480	9.0140	g	09:25	05/14/2024	7.72	72.51
AGG	24E1437-07	1.2910	g	14.0100	g	18:34	05/13/2024	12.7190	10.3220	g	09:25	05/14/2024	9.03	71.00
AGG	24E1437-08	1.2950	g	17.6740	g	18:34	05/13/2024	16.3790	14.5220	g	09:26	05/14/2024	13.23	80.76
AGG	24E1437-09	1.2930	g	15.6300	g	18:35	05/13/2024	14.3370	13.4790	g	09:26	05/14/2024	12.19	85.00
AGG	24E1437-10	1.2930	g	13.2630	g	18:36	05/13/2024	11.9700	11.3300	g	09:26	05/14/2024	10.04	83.85
AGG	24E1437-11	1.3040	g	11.9850	g	18:36	05/13/2024	10.6810	9.2150	g	09:26	05/14/2024	7.91	74.07
AGG	24E1437-12	1.2970	g	12.8760	g	18:37	05/13/2024	11.5790	10.3130	g	09:26	05/14/2024	9.02	77.87
AGG	24E1437-13	1.2920	g	14.3680	g	18:38	05/13/2024	13.0760	10.7750	g	09:26	05/14/2024	9.48	72.52
AGG	24E1437-14	1.2880	g	13.4880	g	18:38	05/13/2024	12.2000	10.6070	g	09:26	05/14/2024	9.32	76.39
AGG	24E1437-15	1.3050	g	13.3300	g	18:39	05/13/2024	12.0250	10.7420	g	09:26	05/14/2024	9.44	78.48
AGG	24E1437-16	1.2980	g	13.1740	g	18:40	05/13/2024	11.8760	10.8450	g	09:27	05/14/2024	9.55	80.39
AGG	24E1437-17	1.2960	g	11.4990	g	18:41	05/13/2024	10.2030	8.3710	g	09:27	05/14/2024	7.08	69.34
AGG	24E1437-18	1.3010	g	15.8450	g	18:41	05/13/2024	14.5440	13.0430	g	09:27	05/14/2024	11.74	80.73
AGG	24E1437-19	1.2940	g	16.8380	g	18:42	05/13/2024	15.5440	12.1080	g	09:27	05/14/2024	10.81	69.57
AGG	B374255-DUP1	1.2940	g	11.5840	g	18:42	05/13/2024	10.2900	8.8050	g	09:27	05/14/2024	7.51	72.99

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APPENDIX C

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ENVIRONMENTAL
ASSESSMENT &
REMEDIATIONS

To: Ryan W. Richard
NYSDEC
21 S. Putt Corners Rd.
New Paltz, NY 12561

Date: 07/09/2025

Subject: Former Tivoli Water Tower Site at 19 Pine Street, Tivoli, NY - Data Usability Summary Report

The Following Items Transmitted:
Data Package:

Originals	Description of Materials	Electronic/ Hard Copy
1	24E1437_NYSDEC_CatB_Package_Mini_Final Report.pdf	Electronic
1	24E1437_ EquNysdec.xls	Electronic

Signature:

Tracey Evans
Chemist
evans@enviro-asmnt.com
Environmental Assessment & Remediations
225 Atlantic Avenue
Patchogue, New York 11772
631-447-6400 ext.124

Former Tivoli Water Tower Site - Data Usability Summary Report for May 8, 2024, Soil Samples

Client: NYSDEC-PM Ryan W. Richard
Laboratory: Con-Test, A PACE Analytical Laboratory INC (NELAP #NY10899)
Site: Former Tivoli Water Tower Site DEC site # 314135
Location: 19 Pine Street, Tivoli, New York

Job ID: 24E1437			Methods								
Lab ID	Field ID	DATE OF COLLECTION	VOC 8260D	SVOC 8270E	1,4-Dioxane	PFAS 1633	Pesticide 8081B	PCB 8082A	Metals 6010D/7471	Cyanide 9014	SM 2540G Total Solid
24E1437-01	CG-1	5/8/2024							x		x
24E1437-02	CG-2	5/8/2024	x	x	x	x	x	x	x	x	x
24E1437-03	B1	5/8/2024							x		x
24E1437-04	B1A	5/8/2024	x	x	x	x	x	x	x	x	x
24E1437-05	SB1	5/8/2024							x		x
24E1437-06	SB1A	5/8/2024	x	x	x	x	x	x	x	x	x
24E1437-07	SB2	5/8/2024							x		x
24E1437-08	SB2A	5/8/2024							x		x
24E1437-09	SB3	5/8/2024							x		x
24E1437-10	SB3A	5/8/2024							x		x
24E1437-11	SB4	5/8/2024							x		x
24E1437-12	SB4A	5/8/2024	x	x	x	x	x	x	x	x	x
24E1437-13	SB5	5/8/2024							x		x
24E1437-14	SB5A	5/8/2024							x		x
24E1437-15	SB6	5/8/2024							x		x
24E1437-16	SB6A	5/8/2024							x		x
24E1437-17	SB7	5/8/2024	x	x	x	x	x	x	x	x	x
24E1437-18	SB7A	5/8/2024							x		x
24E1437-19	DUP	5/8/2024	x	x	x	x	x	x	x	x	x

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Laboratory report reviewed under:

- USEPA Contract Laboratory Program National Functional Guidance for Organic Superfund Methods Data Review, EPA 542-R-20-005 (January 2020).
- USEPA Contract Laboratory Program National Functional Guidance for Inorganic Superfund Methods Data Review, EPA 542-R-20-006 (January 2020).
- VOA Standard Operation for the Validation of Volatile Data, QA-HWSS-A-004 (March 2022).
- VOA Standard Operation for the Validation of Semivolatile Data, QA-HWSS-A-005 (April 2022).
- Standard Operating Procedure for the Validation of Pesticide Data, QA-HWSS-A-007 (April 2022)
- Standard Operating Procedure for the Validation of ICP-AES Data, QA-HWSS-A-010 (February 2022)
- Sampling, Analysis, And Assessment of Per- and Polyfluoroalkyl Substances (PFAS) (Under NYSDEC's Part 375 Remedial Program) (April 2023)
- Method 8260D Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry, revision 4 (June 2018)
- Method 8270E Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry, revision 6 (June 2018)
- Method 8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography (February 2007)
- Method 8081B, Organochlorine Pesticides by Gas Chromatography (February 2007)
- Method 6010D Inductively Coupled Plasma—Optical Emission Spectrometry, revision 5 (June 2018)
- Method 7471B Mercury in Solid or Semisolid Wastes (Manual Cold-Vapor Technique) (February 2007)
- Method 1633, Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous, Solid, Biosolids, and Tissue Samples by LC-MS/MS, EPA 821-R-24-001 (January 2024)
- Standard Operating Procedure for the Validation of ICP-AES Data, QA-HWSS-A-010 (February 2022)
- Standard Methods for the Examination of Water and Wastewater, 24th edition, SM 2540G Total, Fixed, and Volatile Solids and Semisolids Samples Solids (2017)
- Method 9014 Cyanide in Waters and Extracts Using Titrimetric and Manual Spectrophotometric Procedure, revision 1 (July 2014)
- Professional judgment.

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Criteria for Data Usability Summary Report

Completeness:
A complete data package is one that has all relevant and related material packaged for distribution to its client in accordance with the Analytical Service Protocol (ASP) Category B Deliverables guidelines.

Compliant:
A compliant data package is one that is determined to have all work that pertains to the production of the laboratory data in a manner that is consistent with the Quality Assurance Program Plan.

Overall Usability Issues:
Data validation completed in accordance with the New York State Department of Environmental Conservation Analytical Service Protocol (NYSDEC ASP) Category B Data Deliverable requirements and reviewer's professional judgment.
This analytical report complies with the following points:

1. Holding Time and Analysis Time
2. Sample Analysis and Quality Control.

In conclusion, the data reviewed in this report is usable data which meets criteria for compliance with methods 8260D, 8270E, 8081.B, 8082A, 6010D, 7471B and 2540G except for rejected data due to instrument or matrix sample recovery issue as noted in sections 8270E and 6010D.

Data Completeness

- A complete Category B data package under the NYSDEC ASP has been reported.

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Data Validation Acronyms

AA	Atomic Absorption, Flame Technique
BHC	Hexachlorocylcohexane
BFB	Bromofluorobenzene (Tune check analyte)
CCC	Continuing Calibration Check
CCV	Continuing Calibration Verification
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
CVAA	Atomic Absorption, Cold Vapor
DCAA	2,4-Dichlorophenylacetic acid
DCB	Decachlorobiphenyl
DFTPP	Decafluorotriphenyl phosphine (Tune check analyte)
DL	Detection Limit
ECD	Electron Capture Detector
FAA	Atomic Absorption, Furnace Technique
FID	Flame Ionization Detector
FNP	1-Fluoronapthalene
GC	Gas Chromatography
GC/MS	Gas Chromatography/ Mass Spectrometry
GPC	Gel Permeation Chromatography
ICB	Initial Calibration Blank
ICP	Inductively Coupled Plasma – Atomic Emission Spectrometer
ICV	Initial Calibration Verification
IDL	Instrument Detection Limit
ICAL	Initial Calibration Curve
IS	Internal Standard
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LCS/LCSD	Laboratory Control Sample/ Laboratory Control Sample Duplicate
MB	Method Blank
MS	Matrix Spike
BNAMS11	Method of Standard Additions
MSD	Matrix Spike Duplicate
MS/MSD	Matrix Spike/ Matrix Spike Duplicate
ND	Non-detected or Not Detected
PID	Photo Ionization Detector

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Data Validation Acronyms

PCB	Polychlorinated biphenyl
PCDD	Polychlorinated dibenzodioxins
PCDF	Polychlorinated dibenzofurans
PQL	Practical Quantitation Limit
QA	Quality Assurance
QA/QC	Quality Assurance/ Quality Control
QC	Quality Control
RF	Response Factor
RPD	Relative Percent Difference
RL	Reporting Limit
RRF	Relative Response Factor
RT	Retention Time
RRT	Relative Retention Time
SDG	Sample Delivery Group
SMC	System Monitoring Compounds/ Surrogates
SPCC	Sample Performance Check Compound
TCX	Tetrachloro-m-xylene
%D	Percent Drift
%R	Percent Recovery
%RSD	Percent Relative Standard Deviation

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Data Validation Qualifiers

U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may bias high.
J-	The result is an estimated quantity, but the result may bias low.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The data is unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.

Note:

1. These qualifiers are used for data validation purposes. The data validation qualifiers may differ from the qualifiers that the laboratory assigns to the data. Refer to the laboratory analytical report for the definitions of the laboratory qualifiers.

2. The EDDs are assigned these data validation qualifiers and refer to the valid value list supplied by the specific agency or informational data system.

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Client: NYSDEC-PM Ryan W. Richard
Laboratory: Con-Test, A PACE Analytical Laboratory INC (NELAP #NY10899)
Site: Former Tivoli Water Tower Site DEC site # 314135
Location: 19 Pine Street, Tivoli, New York

Method Review: 8260D

Lab Job ID: 24E1437

Lab ID	Field ID	Collection Date	Matrix
24E1437-02	CG-2	5/8/2024	Soil
24E1437-04	B1A	5/8/2024	Soil
24E1437-06	SB1A	5/8/2024	Soil
24E1437-12	SB4A	5/8/2024	Soil
24E1437-17	SB7	5/8/2024	Soil
24E1437-19	DUP	5/8/2024	Soil

Reviewer Summary :

Samples were handled and analyzed properly under USEPA Contract Laboratory Program National Functional Guidance for Super Organic Methods Data and QA-HWSS-A-004 VOA Standard Operation for the Validation of Volatile Data.

• Within initial calibration , S101271-ICV1 analytes Acetone, Carbon Disulfide and Dichlorodifluoromethane (Freon 12) were outside of %D criteria which led to qualification as non-detect estimate values in all samples.

• Within continuous calibration, S104464-CCV1 analytes Dichlorodifluoromethane (Freon 12), 4-Methyl-2-pentanone (MIBK) and Chloromethane were outside of %D laboratory criteria which led to qualification of compounds as non-detect estimate "UJ" values within all samples.

• Within matrix samples, B374129-MS1/MSD1 several analytes failed %R above control limits but were not detected thus no qualification is needed. Bromomethane failed below control limits which led to qualification within parent sample SB1A as non-detect estimates "UJ" value.

• Within duplicate pair SB7 and DUP, Acetone was detected within DUP sample as estimate value but not within SB7 thus no comparison can be made. No further qualification needed.

Data was qualified within category B criterion and is usable.

Client: NYSDEC-PM Ryan W. Richard
Laboratory: Con-Test, A PACE Analytical Laboratory INC (NELAP #NY10899)
Site: Former Tivoli Water Tower Site DEC site # 314135
Location: 19 Pine Street, Tivoli, New York
Job ID: 24E1437

8260D

Criteria	Y	N	NA	Comment
A. Sample Receipt				
Technical Hold Time of 7 days not preserved or 14 days preserved (pH<2)?	x			
Cooling Temp ≥6°C?	x			
B. GC/MS Instrument Performance Check				
Were BFB performance results within criteria?	x			
Were all samples analyzed within the 12 hour time period?	x			
C. Initial Calibration				
Was a 5-point calibration run?	x			Within S101271-ICV1, analytes Acetone, Carbon Disulfide and Dichlorodifluoromethane (Freon 12) were outside of %D criteria which led to qualification as non-detect estimate "UJ" values in all samples. See attachment.
Was RSD% with in criteria for each target analyte? Was RRF within criteria?	x			
Was curve fit used for evaluation? If yes, did the I.C. meet the curve fit acceptability of ≥0.990?	x			
Was the Initial Calibration Verification (ICV) done after the I.C., were (%D) (%R) within criteria?		x		

Criteria	Y	N	NA	Comment
D. Continuing Calibration				
Was it done every 12 hours after I.C. to verify it?	x			Within S104464-CCV1, analytes Dichlorodifluoromethane (Freon 12), 4-Methyl-2-pentanone (MIBK) and Chloromethane were outside of %D laboratory criteria which led to qualification of compounds as non-detect estimate "UJ" values within all samples. See attachment.
Were (%D) ≤ limit and relative response factors (RRF) within criteria?		x		
E. Laboratory Blanks				
Was a lab blank associated with each sample of SDG?	x			
Was blank analyzed every 12 hours?	x			
Were contamination found, if so qualification may be necessary?		x		
Subsection : Field Blanks				
Was a field blank associated with each sample of SDG?		x		
Were target compounds detected in it?			x	
F. Surrogate Spikes				
Were surrogate percent recovery (%R) within QC limits?	x			
If the (%R) for one or more surrogates were out of QC, was reanalysis performed to confirm %R?	x			
G. Matrix Spike/Matrix Duplicate				**SB1A**
Were MS and MSD analyzed for SDG?	x			Within B374129-MS1/MSD1 Several analytes failed %R above control limits but were not detected thus no qualification is needed. Bromomethane failed below control limits which led to
Was MS/MSD done every 20 samples?	x			

Criteria	Y	N	NA	Comment
Were MS/MSD (%R) and RPD within QC?		x		qualification within parent sample SB1A as non-detect estimates "UJ" value. See attachment.
H. Field Duplicate				**SB7 and DUP**
Were field duplicates identified in this SGD?	x			Acetone was detected within DUP sample as estimate value but not within SB7 thus no comparison can be made. No further qualification needed.
Were target compounds detected in it? Were RSPs less than 50%?			x	
subsection: Internal Compounds				
Were counts within 50% to 200% of associated calibration standard?	x			
Were retention times within ± 10 sec of cal. standard?	x			
I. Target Analyte Identification				
Mass spectral ion abundance criteria specified for target analyte?	x			
Target analyte RRT outside specified RRT window?	x			
If sample is considered "Solid", is it greater that 30%?	x			
Did the spectrum meet EPA "Functional Guidelines"?	x			
J. Tentative Analyte Identification				
Were analyte results greater than 85% library match?		x		
Were National Functional Guidelines followed for TIC processing?			x	
K. Regional EPA QA/QC				
Were regional protocol of QA/AC protocols used in evaluation data?	x			

Criteria	Y	N	NA	Comment
L. Overall Assessment of Data				
Was overall assessment of data found to be acceptable?	x			

Comments: Qualification of sample occurred due to initial and continuous calibration failures. Qualification also occurred due to matrix samples failure. All data is usable.

1 - FORM I
ANALYSIS DATA SHEET

CG-2

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-02	File ID:	G24V13410.D
Sampled:	05/08/24 10:40	Prepared:	05/13/24 04:00	Analyzed:	05/13/24 07:42
Solids:	62.99	Preparation:	SW-846 5035	Dilution:	1
Initial/Final:	5.14 g / 10 mL				
Batch:	B374129	Sequence:	S104464	Calibration:	2400276	Instrument:	GCMSVOA7

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
67-64-1	Acetone		0.080	0.15	UJ
71-43-2	Benzene		0.00097	0.0031	
74-97-5	Bromochloromethane		0.0013	0.0031	
75-27-4	Bromodichloromethane		0.00079	0.0031	
75-25-2	Bromoform		0.0014	0.0031	
74-83-9	Bromomethane		0.0027	0.015	
78-93-3	2-Butanone (MEK)		0.013	0.062	
104-51-8	n-Butylbenzene		0.0011	0.0031	
135-98-8	sec-Butylbenzene		0.0012	0.0031	
98-06-6	tert-Butylbenzene		0.0011	0.0031	
75-15-0	Carbon Disulfide		0.016	0.031	UJ
56-23-5	Carbon Tetrachloride		0.00090	0.0031	
108-90-7	Chlorobenzene		0.00074	0.0031	
124-48-1	Chlorodibromomethane		0.0010	0.0015	
75-00-3	Chloroethane		0.0022	0.031	
67-66-3	Chloroform		0.0010	0.0062	
74-87-3	Chloromethane		0.0019	0.015	UJ
110-82-7	Cyclohexane		0.0063	0.015	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.0012	0.0031	
106-93-4	1,2-Dibromoethane (EDB)		0.0011	0.0015	
95-50-1	1,2-Dichlorobenzene		0.00099	0.0031	
541-73-1	1,3-Dichlorobenzene		0.00089	0.0031	
106-46-7	1,4-Dichlorobenzene		0.00096	0.0031	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.0014	0.031	V-05 UJ
75-34-3	1,1-Dichloroethane		0.00094	0.0031	
107-06-2	1,2-Dichloroethane		0.0011	0.0031	
75-35-4	1,1-Dichloroethylene		0.0015	0.0062	
156-59-2	cis-1,2-Dichloroethylene		0.0011	0.0031	
156-60-5	trans-1,2-Dichloroethylene		0.00092	0.0031	
78-87-5	1,2-Dichloropropane		0.00095	0.0031	

1 - FORM I
ANALYSIS DATA SHEET

CG-2

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-02	File ID:	G24V13410.D
Sampled:	05/08/24 10:40	Prepared:	05/13/24 04:00	Analyzed:	05/13/24 07:42
Solids:	62.99	Preparation:	SW-846 5035	Dilution:	1
Initial/Final:	5.14 g / 10 mL				
Batch:	B374129	Sequence:	S104464	Calibration:	2400276
Instrument:	GCMSVOA7				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
10061-01-5	cis-1,3-Dichloropropene		0.0012	0.0015	
10061-02-6	trans-1,3-Dichloropropene		0.0012	0.0015	
100-41-4	Ethylbenzene		0.00089	0.0031	
591-78-6	2-Hexanone (MBK)		0.011	0.031	
98-82-8	Isopropylbenzene (Cumene)		0.0012	0.0031	
99-87-6	p-Isopropyltoluene (p-Cymene)		0.0010	0.0031	
79-20-9	Methyl Acetate		0.0021	0.0031	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.0014	0.0062	
108-87-2	Methyl Cyclohexane		0.0011	0.0031	
75-09-2	Methylene Chloride		0.0014	0.031	
108-10-1	4-Methyl-2-pentanone (MIBK)		0.014	0.031	UJ
91-20-3	Naphthalene		0.0015	0.0062	
103-65-1	n-Propylbenzene		0.0010	0.0031	
100-42-5	Styrene		0.00098	0.0031	
79-34-5	1,1,2,2-Tetrachloroethane		0.0012	0.0015	
127-18-4	Tetrachloroethylene		0.0013	0.0031	
108-88-3	Toluene		0.00091	0.0031	
87-61-6	1,2,3-Trichlorobenzene		0.0010	0.0031	
120-82-1	1,2,4-Trichlorobenzene		0.0010	0.0031	
71-55-6	1,1,1-Trichloroethane		0.00092	0.0031	
79-00-5	1,1,2-Trichloroethane		0.00080	0.0031	
79-01-6	Trichloroethylene		0.0012	0.0031	
75-69-4	Trichlorofluoromethane (Freon 11)		0.0018	0.015	
96-18-4	1,2,3-Trichloropropane		0.0013	0.0031	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.0016	0.015	
95-63-6	1,2,4-Trimethylbenzene		0.0015	0.0031	
108-67-8	1,3,5-Trimethylbenzene		0.0012	0.0031	
75-01-4	Vinyl Chloride		0.0012	0.015	
179601-23-1	m+p Xylene		0.0022	0.0062	
95-47-6	o-Xylene		0.0010	0.0031	

1 - FORM I
ANALYSIS DATA SHEET

B1A

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-04	File ID:	G24V13414.D
Sampled:	05/08/24 13:27	Prepared:	05/13/24 04:00	Analyzed:	05/13/24 09:27
Solids:	85.55	Preparation:	SW-846 5035	Dilution:	1
Initial/Final:	3.8 g / 10 mL				
Batch:	B374129	Sequence:	S104464	Calibration:	2400276	Instrument:	GCMSVOA7

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
67-64-1	Acetone		0.080	0.15	UJ
71-43-2	Benzene		0.00096	0.0031	
74-97-5	Bromochloromethane		0.0013	0.0031	
75-27-4	Bromodichloromethane		0.00079	0.0031	
75-25-2	Bromoform		0.0013	0.0031	
74-83-9	Bromomethane		0.0027	0.015	
78-93-3	2-Butanone (MEK)		0.013	0.062	
104-51-8	n-Butylbenzene		0.0011	0.0031	
135-98-8	sec-Butylbenzene		0.0012	0.0031	
98-06-6	tert-Butylbenzene		0.0011	0.0031	
75-15-0	Carbon Disulfide		0.015	0.031	UJ
56-23-5	Carbon Tetrachloride		0.00089	0.0031	
108-90-7	Chlorobenzene		0.00074	0.0031	
124-48-1	Chlorodibromomethane		0.0010	0.0015	
75-00-3	Chloroethane		0.0022	0.031	
67-66-3	Chloroform		0.0010	0.0062	
74-87-3	Chloromethane		0.0019	0.015	UJ
110-82-7	Cyclohexane		0.0063	0.015	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.0012	0.0031	
106-93-4	1,2-Dibromoethane (EDB)		0.0011	0.0015	
95-50-1	1,2-Dichlorobenzene		0.00098	0.0031	
541-73-1	1,3-Dichlorobenzene		0.00089	0.0031	
106-46-7	1,4-Dichlorobenzene		0.00095	0.0031	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.0013	0.031	V-05 UJ
75-34-3	1,1-Dichloroethane		0.00094	0.0031	
107-06-2	1,2-Dichloroethane		0.0011	0.0031	
75-35-4	1,1-Dichloroethylene		0.0015	0.0062	
156-59-2	cis-1,2-Dichloroethylene		0.0011	0.0031	
156-60-5	trans-1,2-Dichloroethylene		0.00092	0.0031	
78-87-5	1,2-Dichloropropane		0.00095	0.0031	

1 - FORM I
ANALYSIS DATA SHEET

B1A

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-04	File ID:	G24V13414.D
Sampled:	05/08/24 13:27	Prepared:	05/13/24 04:00	Analyzed:	05/13/24 09:27
Solids:	85.55	Preparation:	SW-846 5035	Dilution:	1
Initial/Final:	3.8 g / 10 mL				
Batch:	B374129	Sequence:	S104464	Calibration:	2400276	Instrument:	GCMSVOA7

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
10061-01-5	cis-1,3-Dichloropropene		0.0012	0.0015	
10061-02-6	trans-1,3-Dichloropropene		0.0012	0.0015	
100-41-4	Ethylbenzene		0.00089	0.0031	
591-78-6	2-Hexanone (MBK)		0.011	0.031	
98-82-8	Isopropylbenzene (Cumene)		0.0012	0.0031	
99-87-6	p-Isopropyltoluene (p-Cymene)		0.0010	0.0031	
79-20-9	Methyl Acetate		0.0020	0.0031	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.0014	0.0062	
108-87-2	Methyl Cyclohexane		0.0011	0.0031	
75-09-2	Methylene Chloride		0.0014	0.031	
108-10-1	4-Methyl-2-pentanone (MIBK)		0.014	0.031	UJ
91-20-3	Naphthalene		0.0015	0.0062	
103-65-1	n-Propylbenzene		0.0010	0.0031	
100-42-5	Styrene		0.00098	0.0031	
79-34-5	1,1,2,2-Tetrachloroethane		0.0012	0.0015	
127-18-4	Tetrachloroethylene		0.0013	0.0031	
108-88-3	Toluene		0.00091	0.0031	
87-61-6	1,2,3-Trichlorobenzene		0.0010	0.0031	
120-82-1	1,2,4-Trichlorobenzene		0.0010	0.0031	
71-55-6	1,1,1-Trichloroethane		0.00091	0.0031	
79-00-5	1,1,2-Trichloroethane		0.00079	0.0031	
79-01-6	Trichloroethylene		0.0012	0.0031	
75-69-4	Trichlorofluoromethane (Freon 11)		0.0018	0.015	
96-18-4	1,2,3-Trichloropropane		0.0012	0.0031	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.0016	0.015	
95-63-6	1,2,4-Trimethylbenzene		0.0015	0.0031	
108-67-8	1,3,5-Trimethylbenzene		0.0012	0.0031	
75-01-4	Vinyl Chloride		0.0012	0.015	
179601-23-1	m+p Xylene		0.0022	0.0062	
95-47-6	o-Xylene		0.0010	0.0031	

1 - FORM I
ANALYSIS DATA SHEET

SB1A

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-06	File ID:	G24V13409.D
Sampled:	05/08/24 14:19	Prepared:	05/13/24 04:00	Analyzed:	05/13/24 07:16
Solids:	72.51	Preparation:	SW-846 5035	Dilution:	1
Initial/Final:	5.49 g / 10 mL				
Batch:	B374129	Sequence:	S104464	Calibration:	2400276	Instrument:	GCMSVOA7

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
67-64-1	Acetone		0.065	0.13	UJ
71-43-2	Benzene		0.00079	0.0025	
74-97-5	Bromochloromethane		0.0011	0.0025	
75-27-4	Bromodichloromethane		0.00064	0.0025	
75-25-2	Bromoform		0.0011	0.0025	
74-83-9	Bromomethane		0.0022	0.013	MS-07A UJ
78-93-3	2-Butanone (MEK)		0.011	0.050	
104-51-8	n-Butylbenzene		0.00091	0.0025	
135-98-8	sec-Butylbenzene		0.0010	0.0025	
98-06-6	tert-Butylbenzene		0.00091	0.0025	
75-15-0	Carbon Disulfide		0.013	0.025	UJ
56-23-5	Carbon Tetrachloride		0.00073	0.0025	
108-90-7	Chlorobenzene		0.00061	0.0025	
124-48-1	Chlorodibromomethane		0.00083	0.0013	
75-00-3	Chloroethane		0.0018	0.025	
67-66-3	Chloroform		0.00082	0.0050	
74-87-3	Chloromethane		0.0015	0.013	UJ
110-82-7	Cyclohexane		0.0051	0.013	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.0010	0.0025	
106-93-4	1,2-Dibromoethane (EDB)		0.00092	0.0013	
95-50-1	1,2-Dichlorobenzene		0.00080	0.0025	
541-73-1	1,3-Dichlorobenzene		0.00072	0.0025	
106-46-7	1,4-Dichlorobenzene		0.00078	0.0025	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.0011	0.025	V-05 UJ
75-34-3	1,1-Dichloroethane		0.00076	0.0025	
107-06-2	1,2-Dichloroethane		0.00086	0.0025	
75-35-4	1,1-Dichloroethylene		0.0012	0.0050	
156-59-2	cis-1,2-Dichloroethylene		0.00087	0.0025	
156-60-5	trans-1,2-Dichloroethylene		0.00075	0.0025	
78-87-5	1,2-Dichloropropane		0.00077	0.0025	

1 - FORM I
ANALYSIS DATA SHEET

SB1A

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-06	File ID:	G24V13409.D
Sampled:	05/08/24 14:19	Prepared:	05/13/24 04:00	Analyzed:	05/13/24 07:16
Solids:	72.51	Preparation:	SW-846 5035	Dilution:	1
Initial/Final:	5.49 g / 10 mL				
Batch:	B374129	Sequence:	S104464	Calibration:	2400276	Instrument:	GCMSVOA7

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
10061-01-5	cis-1,3-Dichloropropene		0.00095	0.0013	
10061-02-6	trans-1,3-Dichloropropene		0.00097	0.0013	
100-41-4	Ethylbenzene		0.00072	0.0025	
591-78-6	2-Hexanone (MBK)		0.0086	0.025	
98-82-8	Isopropylbenzene (Cumene)		0.00097	0.0025	
99-87-6	p-Isopropyltoluene (p-Cymene)		0.00081	0.0025	
79-20-9	Methyl Acetate		0.0017	0.0025	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.0011	0.0050	
108-87-2	Methyl Cyclohexane		0.00090	0.0025	
75-09-2	Methylene Chloride		0.0012	0.025	
108-10-1	4-Methyl-2-pentanone (MIBK)		0.011	0.025	UJ
91-20-3	Naphthalene		0.0012	0.0050	
103-65-1	n-Propylbenzene		0.00083	0.0025	
100-42-5	Styrene		0.00080	0.0025	
79-34-5	1,1,2,2-Tetrachloroethane		0.00097	0.0013	
127-18-4	Tetrachloroethylene		0.0011	0.0025	
108-88-3	Toluene		0.00074	0.0025	
87-61-6	1,2,3-Trichlorobenzene		0.00083	0.0025	
120-82-1	1,2,4-Trichlorobenzene		0.00083	0.0025	
71-55-6	1,1,1-Trichloroethane		0.00074	0.0025	
79-00-5	1,1,2-Trichloroethane		0.00065	0.0025	
79-01-6	Trichloroethylene		0.00095	0.0025	
75-69-4	Trichlorofluoromethane (Freon 11)		0.0015	0.013	
96-18-4	1,2,3-Trichloropropane		0.0010	0.0025	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.0013	0.013	
95-63-6	1,2,4-Trimethylbenzene		0.0012	0.0025	
108-67-8	1,3,5-Trimethylbenzene		0.0010	0.0025	
75-01-4	Vinyl Chloride		0.00098	0.013	
179601-23-1	m+p Xylene		0.0018	0.0050	
95-47-6	o-Xylene		0.00085	0.0025	

1 - FORM I
ANALYSIS DATA SHEET

SB4A

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-12	File ID:	G24V13415.D
Sampled:	05/08/24 14:53	Prepared:	05/13/24 04:00	Analyzed:	05/13/24 09:53
Solids:	77.87	Preparation:	SW-846 5035	Dilution:	1
Initial/Final:	5.97 g / 10 mL				
Batch:	B374129	Sequence:	S104464	Calibration:	2400276	Instrument:	GCMSVOA7

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
67-64-1	Acetone	0.056	0.056	0.11	V-35, J
71-43-2	Benzene		0.00067	0.0022	
74-97-5	Bromochloromethane		0.00092	0.0022	
75-27-4	Bromodichloromethane		0.00055	0.0022	
75-25-2	Bromoform		0.00094	0.0022	
74-83-9	Bromomethane		0.0019	0.011	
78-93-3	2-Butanone (MEK)		0.0091	0.043	
104-51-8	n-Butylbenzene		0.00078	0.0022	
135-98-8	sec-Butylbenzene		0.00086	0.0022	
98-06-6	tert-Butylbenzene		0.00078	0.0022	
75-15-0	Carbon Disulfide		0.011	0.022	UJ
56-23-5	Carbon Tetrachloride		0.00062	0.0022	
108-90-7	Chlorobenzene		0.00052	0.0022	
124-48-1	Chlorodibromomethane		0.00071	0.0011	
75-00-3	Chloroethane		0.0015	0.022	
67-66-3	Chloroform		0.00070	0.0043	
74-87-3	Chloromethane		0.0013	0.011	UJ
110-82-7	Cyclohexane		0.0044	0.011	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.00087	0.0022	
106-93-4	1,2-Dibromoethane (EDB)		0.00078	0.0011	
95-50-1	1,2-Dichlorobenzene		0.00069	0.0022	
541-73-1	1,3-Dichlorobenzene		0.00062	0.0022	
106-46-7	1,4-Dichlorobenzene		0.00067	0.0022	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.00094	0.022	V-05 UJ
75-34-3	1,1-Dichloroethane		0.00066	0.0022	
107-06-2	1,2-Dichloroethane		0.00074	0.0022	
75-35-4	1,1-Dichloroethylene		0.0010	0.0043	
156-59-2	cis-1,2-Dichloroethylene		0.00075	0.0022	
156-60-5	trans-1,2-Dichloroethylene		0.00064	0.0022	
78-87-5	1,2-Dichloropropane		0.00066	0.0022	

1 - FORM I
ANALYSIS DATA SHEET

SB4A

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-12	File ID:	G24V13415.D
Sampled:	05/08/24 14:53	Prepared:	05/13/24 04:00	Analyzed:	05/13/24 09:53
Solids:	77.87	Preparation:	SW-846 5035	Dilution:	1
Initial/Final:	5.97 g / 10 mL				
Batch:	B374129	Sequence:	S104464	Calibration:	2400276	Instrument:	GCMSVOA7

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
10061-01-5	cis-1,3-Dichloropropene		0.00082	0.0011	
10061-02-6	trans-1,3-Dichloropropene		0.00083	0.0011	
100-41-4	Ethylbenzene		0.00062	0.0022	
591-78-6	2-Hexanone (MBK)		0.0074	0.022	
98-82-8	Isopropylbenzene (Cumene)		0.00083	0.0022	
99-87-6	p-Isopropyltoluene (p-Cymene)		0.00070	0.0022	
79-20-9	Methyl Acetate		0.0014	0.0022	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.00095	0.0043	
108-87-2	Methyl Cyclohexane		0.00077	0.0022	
75-09-2	Methylene Chloride		0.0010	0.022	
108-10-1	4-Methyl-2-pentanone (MIBK)		0.0095	0.022	UJ
91-20-3	Naphthalene		0.0011	0.0043	
103-65-1	n-Propylbenzene		0.00071	0.0022	
100-42-5	Styrene		0.00068	0.0022	
79-34-5	1,1,2,2-Tetrachloroethane		0.00083	0.0011	
127-18-4	Tetrachloroethylene		0.00094	0.0022	
108-88-3	Toluene		0.00064	0.0022	
87-61-6	1,2,3-Trichlorobenzene		0.00071	0.0022	
120-82-1	1,2,4-Trichlorobenzene		0.00071	0.0022	
71-55-6	1,1,1-Trichloroethane		0.00064	0.0022	
79-00-5	1,1,2-Trichloroethane		0.00055	0.0022	
79-01-6	Trichloroethylene		0.00081	0.0022	
75-69-4	Trichlorofluoromethane (Freon 11)		0.0013	0.011	
96-18-4	1,2,3-Trichloropropane		0.00087	0.0022	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.0011	0.011	
95-63-6	1,2,4-Trimethylbenzene		0.0010	0.0022	
108-67-8	1,3,5-Trimethylbenzene		0.00086	0.0022	
75-01-4	Vinyl Chloride		0.00084	0.011	
179601-23-1	m+p Xylene		0.0016	0.0043	
95-47-6	o-Xylene		0.00073	0.0022	

1 - FORM I
ANALYSIS DATA SHEET

SB7

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-17	File ID:	G24V13416.D
Sampled:	05/08/24 15:39	Prepared:	05/13/24 04:00	Analyzed:	05/13/24 10:18
Solids:	69.34	Preparation:	SW-846 5035	Dilution:	1
Initial/Final:	4.78 g / 10 mL				
Batch:	B374129	Sequence:	S104464	Calibration:	2400276	Instrument:	GCMSVOA7

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
67-64-1	Acetone		0.078	0.15	UJ
71-43-2	Benzene		0.00094	0.0030	
74-97-5	Bromochloromethane		0.0013	0.0030	
75-27-4	Bromodichloromethane		0.00077	0.0030	
75-25-2	Bromoform		0.0013	0.0030	
74-83-9	Bromomethane		0.0027	0.015	
78-93-3	2-Butanone (MEK)		0.013	0.060	
104-51-8	n-Butylbenzene		0.0011	0.0030	
135-98-8	sec-Butylbenzene		0.0012	0.0030	
98-06-6	tert-Butylbenzene		0.0011	0.0030	
75-15-0	Carbon Disulfide		0.015	0.030	UJ
56-23-5	Carbon Tetrachloride		0.00087	0.0030	
108-90-7	Chlorobenzene		0.00073	0.0030	
124-48-1	Chlorodibromomethane		0.00099	0.0015	
75-00-3	Chloroethane		0.0021	0.030	
67-66-3	Chloroform		0.00099	0.0060	
74-87-3	Chloromethane		0.0018	0.015	UJ
110-82-7	Cyclohexane		0.0061	0.015	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.0012	0.0030	
106-93-4	1,2-Dibromoethane (EDB)		0.0011	0.0015	
95-50-1	1,2-Dichlorobenzene		0.00097	0.0030	
541-73-1	1,3-Dichlorobenzene		0.00087	0.0030	
106-46-7	1,4-Dichlorobenzene		0.00094	0.0030	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.0013	0.030	V-05 UJ
75-34-3	1,1-Dichloroethane		0.00092	0.0030	
107-06-2	1,2-Dichloroethane		0.0010	0.0030	
75-35-4	1,1-Dichloroethylene		0.0014	0.0060	
156-59-2	cis-1,2-Dichloroethylene		0.0010	0.0030	
156-60-5	trans-1,2-Dichloroethylene		0.00090	0.0030	
78-87-5	1,2-Dichloropropane		0.00093	0.0030	

1 - FORM I
ANALYSIS DATA SHEET

SB7

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-17	File ID:	G24V13416.D
Sampled:	05/08/24 15:39	Prepared:	05/13/24 04:00	Analyzed:	05/13/24 10:18
Solids:	69.34	Preparation:	SW-846 5035	Dilution:	1
Initial/Final:	4.78 g / 10 mL				
Batch:	B374129	Sequence:	S104464	Calibration:	2400276
Instrument:	GCMSVOA7				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
10061-01-5	cis-1,3-Dichloropropene		0.0011	0.0015	
10061-02-6	trans-1,3-Dichloropropene		0.0012	0.0015	
100-41-4	Ethylbenzene		0.00087	0.0030	
591-78-6	2-Hexanone (MBK)		0.010	0.030	
98-82-8	Isopropylbenzene (Cumene)		0.0012	0.0030	
99-87-6	p-Isopropyltoluene (p-Cymene)		0.00098	0.0030	
79-20-9	Methyl Acetate	0.0022	0.0020	0.0030	J
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.0013	0.0060	
108-87-2	Methyl Cyclohexane		0.0011	0.0030	
75-09-2	Methylene Chloride		0.0014	0.030	
108-10-1	4-Methyl-2-pentanone (MIBK)		0.013	0.030	UJ
91-20-3	Naphthalene		0.0015	0.0060	
103-65-1	n-Propylbenzene		0.0010	0.0030	
100-42-5	Styrene		0.00096	0.0030	
79-34-5	1,1,2,2-Tetrachloroethane		0.0012	0.0015	
127-18-4	Tetrachloroethylene		0.0013	0.0030	
108-88-3	Toluene		0.00089	0.0030	
87-61-6	1,2,3-Trichlorobenzene		0.0010	0.0030	
120-82-1	1,2,4-Trichlorobenzene		0.00099	0.0030	
71-55-6	1,1,1-Trichloroethane		0.00089	0.0030	
79-00-5	1,1,2-Trichloroethane		0.00078	0.0030	
79-01-6	Trichloroethylene		0.0011	0.0030	
75-69-4	Trichlorofluoromethane (Freon 11)		0.0018	0.015	
96-18-4	1,2,3-Trichloropropane		0.0012	0.0030	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.0016	0.015	
95-63-6	1,2,4-Trimethylbenzene		0.0015	0.0030	
108-67-8	1,3,5-Trimethylbenzene		0.0012	0.0030	
75-01-4	Vinyl Chloride		0.0012	0.015	
179601-23-1	m+p Xylene		0.0022	0.0060	
95-47-6	o-Xylene		0.0010	0.0030	

1 - FORM I
ANALYSIS DATA SHEET

DUP

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-19	File ID:	G24V13417.D
Sampled:	05/08/24 15:45	Prepared:	05/13/24 04:00	Analyzed:	05/13/24 10:44
Solids:	69.57	Preparation:	SW-846 5035	Dilution:	1
Initial/Final:	5.09 g / 10 mL				
Batch:	B374129	Sequence:	S104464	Calibration:	2400276	Instrument:	GCMSVOA7

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
67-64-1	Acetone	0.073	0.073	0.14	V-35, J
71-43-2	Benzene		0.00088	0.0028	
74-97-5	Bromochloromethane		0.0012	0.0028	
75-27-4	Bromodichloromethane		0.00072	0.0028	
75-25-2	Bromoform		0.0012	0.0028	
74-83-9	Bromomethane		0.0025	0.014	
78-93-3	2-Butanone (MEK)		0.012	0.056	
104-51-8	n-Butylbenzene		0.0010	0.0028	
135-98-8	sec-Butylbenzene		0.0011	0.0028	
98-06-6	tert-Butylbenzene		0.0010	0.0028	
75-15-0	Carbon Disulfide		0.014	0.028	UJ
56-23-5	Carbon Tetrachloride		0.00082	0.0028	
108-90-7	Chlorobenzene		0.00068	0.0028	
124-48-1	Chlorodibromomethane		0.00093	0.0014	
75-00-3	Chloroethane		0.0020	0.028	
67-66-3	Chloroform		0.00092	0.0056	
74-87-3	Chloromethane		0.0017	0.014	UJ
110-82-7	Cyclohexane		0.0057	0.014	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)		0.0011	0.0028	
106-93-4	1,2-Dibromoethane (EDB)		0.0010	0.0014	
95-50-1	1,2-Dichlorobenzene		0.00090	0.0028	
541-73-1	1,3-Dichlorobenzene		0.00081	0.0028	
106-46-7	1,4-Dichlorobenzene		0.00088	0.0028	
75-71-8	Dichlorodifluoromethane (Freon 12)		0.0012	0.028	V-05 UJ
75-34-3	1,1-Dichloroethane		0.00086	0.0028	
107-06-2	1,2-Dichloroethane		0.00097	0.0028	
75-35-4	1,1-Dichloroethylene		0.0014	0.0056	
156-59-2	cis-1,2-Dichloroethylene		0.00098	0.0028	
156-60-5	trans-1,2-Dichloroethylene		0.00084	0.0028	
78-87-5	1,2-Dichloropropane		0.00087	0.0028	

1 - FORM I
ANALYSIS DATA SHEET

DUP

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-19	File ID:	G24V13417.D
Sampled:	05/08/24 15:45	Prepared:	05/13/24 04:00	Analyzed:	05/13/24 10:44
Solids:	69.57	Preparation:	SW-846 5035	Dilution:	1
Initial/Final:	5.09 g / 10 mL				
Batch:	B374129	Sequence:	S104464	Calibration:	2400276	Instrument:	GCMSVOA7

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
10061-01-5	cis-1,3-Dichloropropene		0.0011	0.0014	
10061-02-6	trans-1,3-Dichloropropene		0.0011	0.0014	
100-41-4	Ethylbenzene		0.00081	0.0028	
591-78-6	2-Hexanone (MBK)		0.0097	0.028	
98-82-8	Isopropylbenzene (Cumene)		0.0011	0.0028	
99-87-6	p-Isopropyltoluene (p-Cymene)		0.00091	0.0028	
79-20-9	Methyl Acetate		0.0019	0.0028	
1634-04-4	Methyl tert-Butyl Ether (MTBE)		0.0012	0.0056	
108-87-2	Methyl Cyclohexane		0.0010	0.0028	
75-09-2	Methylene Chloride		0.0013	0.028	
108-10-1	4-Methyl-2-pentanone (MIBK)		0.012	0.028	UJ
91-20-3	Naphthalene		0.0014	0.0056	
103-65-1	n-Propylbenzene		0.00093	0.0028	
100-42-5	Styrene		0.00090	0.0028	
79-34-5	1,1,2,2-Tetrachloroethane		0.0011	0.0014	
127-18-4	Tetrachloroethylene		0.0012	0.0028	
108-88-3	Toluene		0.00084	0.0028	
87-61-6	1,2,3-Trichlorobenzene		0.00093	0.0028	
120-82-1	1,2,4-Trichlorobenzene		0.00093	0.0028	
71-55-6	1,1,1-Trichloroethane		0.00084	0.0028	
79-00-5	1,1,2-Trichloroethane		0.00073	0.0028	
79-01-6	Trichloroethylene		0.0011	0.0028	
75-69-4	Trichlorofluoromethane (Freon 11)		0.0017	0.014	
96-18-4	1,2,3-Trichloropropane		0.0011	0.0028	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 1		0.0015	0.014	
95-63-6	1,2,4-Trimethylbenzene		0.0014	0.0028	
108-67-8	1,3,5-Trimethylbenzene		0.0011	0.0028	
75-01-4	Vinyl Chloride		0.0011	0.014	
179601-23-1	m+p Xylene		0.0020	0.0056	
95-47-6	o-Xylene		0.00095	0.0028	

Client: NYSDEC-PM Ryan W Richard
Laboratory: Con-Test, A PACE Analytical Laboratory INC (NELAP #NY10899)
Site: Former Tivoli Water Tower Site DEC site # 314135
Location:19 Pine Street, Tivoli, New York.

Method Review: 8270E SIM, Isotope Dilution

Lab Job ID: 25E1437

Lab ID	Field ID	Collection Date	Matrix
24E1437-02	CG-2	5/8/2024	Soil
24E1437-04	B1A	5/8/2024	Soil
24E1437-06	SB1A	5/8/2024	Soil
24E1437-12	SB4A	5/8/2024	Soil
24E1437-17	SB7	5/8/2024	Soil
24E1437-19	DUP	5/8/2024	Soil

Reviewer Summary :

Samples were handled and analyzed properly under EPA Region 2 protocol Standard Operating Procedure for Validation of Semivolatile Data, QA-HWSS-A-005 along with the EPA's National Functional Guideline for Organic Compounds.

- Within initial calibration verification, S100626-ICV1 analytes 2,3,4,6-Tetrachlorophenol, Benzaldehyde and 4-Chloroaniline were outside of %D limits lead to qualification within all samples as estimate. Non-detected estimate "J/UJ" values.
- Within continuous calibration verification, S104589-CCV1 and S104909-CCV1 several compounds did not meet %D criteria led to qualification of non-detect estimate "UJ" values within samples. Compounds include Hexachlorocylopentadiene, Pentachlorophenol, Bis(2-chloroisopropyl)ether, Bis(2-Ethylhexyl)phthalate, Butylbenzylphthalate, Dibenz(a,h)anthracene, Di-n-butylphthalate, and Di-n-octylphthalate.
- Within matrix samples, B374087-MS1/ MSD1compounds failed recovery limits to qualification within parent sample SB1A s non-detect estimate "UJ" value and two rejection "R" values for 3,3-Dichlorobenzidine and Hexachlorocyclopentadiene. Compounds qualified as "UJ" are Aniline, Benzo(g,h,i)perylene, 2-Chloronaphthalene, 2,4-Dimethylphenol, Hexachloroethane and Indeno(1,2,3-cd)pyrene.
- Within laboratory control sample, Hexachlorocylopentadiene is qualified as rejected “R” values within samples due to recovery below laboratory limits within laboratory control sample B374087-BS1/BSD1. While the other LCS had analytes with recovery above laboratory criteria, but no detection within samples, thust no need for qualification.
- Duplicate pair SB7 and DUP are well compared with relative percent difference for two compound detected, Benzaldehyde and Pyrene as estimate values.

Data is qualified within category B criterion and is usable, except for the data qualified as rejected.

Client: NYSDEC-PM Ryan W. Richard
Laboratory: Con-Test, A PACE Analytical Laboratory INC (NELAP #NY10899)
Site: Former Tivoli Water Tower Site DEC site # 314135
Location: 19 Pine Street, Tivoli, New York
Job ID: 24E1437

8270E

Criteria	Y	N	NA	Comment
A. Sample Receipt				
Were samples within technical hold time and extraction period?	x			
Cooling Temp =≤ 6°C?	x			
B. GC/MS Instrument Performance Check				
Were DFTPP performance results within criteria?	x			
Were all samples analyzed within the 12 hour time period?	x			
Ion abundance criteria met?	x			
C. Initial Calibration				
Was a 5-point calibration conducted?	x			
RSD% within acceptable criterion?	x			
Was curve fit used for evaluation? If yes, did the I.C. meet the curve fit acceptability of ≥0.990?	x			Within S100626-ICV1, analytes 2,3,4,6-Tetrachlorophenol, Benzaldehyde and 4-Chloroaniline were outside of %D limits lead to qualification within all samples as estimate. Non-detected estimate "J/UJ" values. See attachment.
Was %D for target analytes within acceptable limit.		x		
Was RRF values meet for target analyte?	x			
Was the Initial Calibration Verification (ICV) done after the I.C.?	x			

Criteria	Y	N	NA	Comment
D. Continuing Calibration				
Was it done every 12 hours after Initial Calibration to verify it?	x			Within S104589-CCV1 and S104909-CCV1, several compounds did not meet %D criteria led to qualification of non-detect estimate "UJ" values within samples. Compounds include Hexachlorocyclopentadiene, Pentachlorophenol, Bis(2-chloroisopropyl)ether, Bis(2-Ethylhexyl)phthalate, Butylbenzylphthalate, Dibenz(a,h)anthracene, Di-n-butylphthalate, and Di-n-octylphthalate. See attachment.
Were (%D) and relative response factors (RRF) within acceptable criteria?				
E. Laboratory Blanks				
Was a lab blank associated with each sample of SDG?	x			
Was blank analyzed every 20 samples?	x			
Were contamination found, if so qualification may be necessary?		x		
F. Field Blanks/Trip Blank				
Was a field blanks associated with each sample of SDG?		x		
Were target compounds detected in it?			x	
G. Surrogate Spikes (Isotope Dilution Recovery)				
Were surrogate percent recovery (%R) within QC limits?(Tetrahydrofuran-d8)	x			
If the (%R) for one or more surrogates were out of QC, was reanalysis performed to confirm %R?	x			
H. Matrix Spike/Matrix Duplicate				**SB1A MS/MSD**
Were MS and MSD analyzed for SDG?	x			Within B374087-MS1/ MSD1, compounds failed recovery limits to qualification within parent sample SB1A

Criteria	Y	N	NA	Comment
Was MS/MSD done every 20 samples ?	x			as non-detect estimate "UJ" value and two rejection "R" values for 3,3-Dichlorobenzidine and Hexachlorocyclopentadiene. Compounds qualified as "UJ" are Aniline, Benzo(g,h,i)perylene, 2-Chloronaphthalene, 2,4-Dimethylphenol, Hexachloroethane and Indeno(1,2,3-cd)pyrene. See attachment.
Were MS/MSD (%R) and RPD within QC?		x		
I. Laboratory Control Sample				
Was LCS analysis for this SDG?	x			Hexachlorocylopentadiene is qualified as rejected “R” values within samples due to recovery below laboratory limits within laboratory control sample B374087-BS1/BSD1. While the other LCS had analytes with recovery above laboratory criteria, there was no need for qualification is needed. See attachment.
Was LCS analysis per analysis batch?	x			
Was LCS (%R) within QC Limits?		x		
J. Field Duplicate				**SB7 and DUP**
Were field duplicates identified in this SDG?	x			Duplicate pair SB7 and DUP are well compared with relative percent difference for two compound detected, Benzaldehyde and Pyrene as estimate values. See attachment.
Were target compounds detected in it?	x			
K. Internal Standard				
Was area response within acceptance limits?	x			
Were retention times within ± 30 sec of cal. standard?	x			
L. Compound Quantitation				
Were correct internal standards, quantitation ions and RRF used in quantitate compounds?	x			
Were compound quantitates and RLs adjusted to reflect sample dilutions and dry weights to continuous calibration?	x			

Criteria	Y	N	NA	Comment
M. Target Compound Identification				
Were relative retention times (RRTs) within ±0.06 units of standard?	x			
Did the spectrum meet EPA "Functional Guidelines"?	x			
Were chromatograms peaks verified and accounted?	x			
N. Overall Assessment of Data				
Was overall assessment of data found to be acceptable?	x			

Comments: Qualification of samples occurred due to laboratory criteria failure within initial and continuous calibrations. Qualification also occurred to recovery failures in matrix and laboratory control samples. Data within Cat. B criterion and usable, except for the data that is qualified as rejected.

Blind Duplicate Comparison

8260D

Compounds	Original Sample SB7	Blind Duplicate DUP	Relative Percent Difference
Benzaldehyde	0.086	0.098	12.24
Pyrene	0.053	0.057	7.02

Reviewer comment: Duplicate pair SB7 and DUP are well compared with relative percent difference.

1 - FORM I
ANALYSIS DATA SHEET

CG-2

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-02	File ID:	D24S137015.D
Sampled:	05/08/24 10:40	Prepared:	05/12/24 07:21	Analyzed:	05/16/24 16:54
Solids:	62.99	Preparation:	SW-846 3546	Dilution:	1
Initial/Final:	30.55 g / 1 mL				
Batch:	B374087	Sequence:	S104909	Calibration:	2400207	Instrument:	GCMSSV4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
58-90-2	2,3,4,6-Tetrachlorophenol		0.072	1.0	UJ
1912-24-9	Atrazine		0.068	1.0	
100-52-7	Benzaldehyde	0.18	0.084	0.53	J
92-52-4	Biphenyl		0.067	1.0	
105-60-2	Caprolactam		0.092	0.53	
83-32-9	Acenaphthene		0.051	0.27	
208-96-8	Acenaphthylene		0.048	0.27	
98-86-2	Acetophenone		0.055	0.53	
62-53-3	Aniline		0.092	0.53	
120-12-7	Anthracene		0.047	0.27	
56-55-3	Benzo(a)anthracene	0.11	0.043	0.27	J
50-32-8	Benzo(a)pyrene	0.16	0.048	0.27	J
205-99-2	Benzo(b)fluoranthene	0.28	0.043	0.27	
191-24-2	Benzo(g,h,i)perylene	0.21	0.076	0.27	J
207-08-9	Benzo(k)fluoranthene	0.098	0.048	0.27	J
111-91-1	Bis(2-chloroethoxy)methane		0.057	0.53	
111-44-4	Bis(2-chloroethyl)ether		0.075	0.53	
108-60-1	Bis(2-chloroisopropyl)ether		0.33	0.53	V-06
117-81-7	Bis(2-Ethylhexyl)phthalate		0.063	0.53	L-05, V-06 UJ
101-55-3	4-Bromophenylphenylether		0.048	0.53	
85-68-7	Butylbenzylphthalate		0.059	0.53	UJ
86-74-8	Carbazole		0.053	0.27	
106-47-8	4-Chloroaniline		0.094	1.0	UJ
59-50-7	4-Chloro-3-methylphenol		0.055	1.0	
91-58-7	2-Chloronaphthalene		0.046	0.53	
95-57-8	2-Chlorophenol		0.053	0.53	
7005-72-3	4-Chlorophenylphenylether		0.044	0.53	
218-01-9	Chrysene	0.18	0.047	0.27	J
53-70-3	Dibenz(a,h)anthracene		0.073	0.27	UJ
132-64-9	Dibenzofuran		0.047	0.53	

1 - FORM I
ANALYSIS DATA SHEET

CG-2

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-02	File ID:	D24S137015.D
Sampled:	05/08/24 10:40	Prepared:	05/12/24 07:21	Analyzed:	05/16/24 16:54
Solids:	62.99	Preparation:	SW-846 3546	Dilution:	1
Initial/Final:	30.55 g / 1 mL				
Batch:	B374087	Sequence:	S104909	Calibration:	2400207	Instrument:	GCMSSV4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
84-74-2	Di-n-butylphthalate		0.20	0.53	UJ
91-94-1	3,3-Dichlorobenzidine		0.11	0.27	
120-83-2	2,4-Dichlorophenol		0.050	0.53	
84-66-2	Diethylphthalate		0.051	0.53	
105-67-9	2,4-Dimethylphenol		0.12	0.53	
131-11-3	Dimethylphthalate		0.050	0.53	
534-52-1	4,6-Dinitro-2-methylphenol		0.42	0.53	
51-28-5	2,4-Dinitrophenol		0.41	1.0	
121-14-2	2,4-Dinitrotoluene		0.054	0.53	
606-20-2	2,6-Dinitrotoluene		0.056	0.53	
117-84-0	Di-n-octylphthalate		0.075	0.53	V-20 UJ
206-44-0	Fluoranthene	0.16	0.043	0.27	J
86-73-7	Fluorene		0.047	0.27	
118-74-1	Hexachlorobenzene		0.051	0.53	
87-68-3	Hexachlorobutadiene		0.048	0.53	
77-47-4	Hexachlorocyclopentadiene		0.35	0.53	L-04, V-05 R
67-72-1	Hexachloroethane		0.049	0.53	
193-39-5	Indeno(1,2,3-cd)pyrene	0.19	0.086	0.27	J
78-59-1	Isophorone		0.056	0.53	
90-12-0	1-Methylnaphthalene		0.053	0.27	
91-57-6	2-Methylnaphthalene		0.045	0.27	
95-48-7	2-Methylphenol		0.071	0.53	
108-39-4/106-44	3/4-Methylphenol		0.070	0.53	
91-20-3	Naphthalene		0.093	0.27	
88-74-4	2-Nitroaniline		0.064	0.53	
99-09-2	3-Nitroaniline		0.11	0.53	
100-01-6	4-Nitroaniline		0.059	0.53	
98-95-3	Nitrobenzene		0.067	0.53	
88-75-5	2-Nitrophenol		0.052	0.53	
100-02-7	4-Nitrophenol		0.14	1.0	

1 - FORM I
ANALYSIS DATA SHEET

CG-2

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-02	File ID:	D24S137015.D
Sampled:	05/08/24 10:40	Prepared:	05/12/24 07:21	Analyzed:	05/16/24 16:54
Solids:	62.99	Preparation:	SW-846 3546	Dilution:	1
Initial/Final:	30.55 g / 1 mL				
Batch:	B374087	Sequence:	S104909	Calibration:	2400207
				Instrument:	GCMSSV4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
86-30-6	N-Nitrosodiphenylamine/Diphenylamine		0.067	0.53	
621-64-7	N-Nitrosodi-n-propylamine		0.074	0.53	
87-86-5	Pentachlorophenol		0.19	0.53	V-05 UJ
85-01-8	Phenanthrene		0.047	0.27	
108-95-2	Phenol		0.067	0.53	
129-00-0	Pyrene	0.15	0.055	0.27	J
110-86-1	Pyridine		0.062	0.53	
95-94-3	1,2,4,5-Tetrachlorobenzene		0.052	0.53	
95-95-4	2,4,5-Trichlorophenol		0.054	0.53	
88-06-2	2,4,6-Trichlorophenol		0.050	0.53	

1 - FORM I
ANALYSIS DATA SHEET

B1A

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-04	File ID:	D24S137016.D
Sampled:	05/08/24 13:27	Prepared:	05/12/24 07:21	Analyzed:	05/16/24 17:14
Solids:	85.55	Preparation:	SW-846 3546	Dilution:	1
Initial/Final:	30.35 g / 1 mL				
Batch:	B374087	Sequence:	S104909	Calibration:	2400207	Instrument:	GCMSSV4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
58-90-2	2,3,4,6-Tetrachlorophenol		0.053	0.77	UJ
1912-24-9	Atrazine		0.050	0.77	
100-52-7	Benzaldehyde		0.063	0.39	UJ
92-52-4	Biphenyl		0.050	0.77	
105-60-2	Caprolactam		0.068	0.39	
83-32-9	Acenaphthene		0.038	0.20	
208-96-8	Acenaphthylene		0.035	0.20	
98-86-2	Acetophenone		0.041	0.39	
62-53-3	Aniline		0.068	0.39	
120-12-7	Anthracene		0.035	0.20	
56-55-3	Benzo(a)anthracene	0.041	0.032	0.20	J
50-32-8	Benzo(a)pyrene	0.058	0.035	0.20	J
205-99-2	Benzo(b)fluoranthene	0.064	0.032	0.20	J
191-24-2	Benzo(g,h,i)perylene	0.065	0.056	0.20	J
207-08-9	Benzo(k)fluoranthene		0.035	0.20	
111-91-1	Bis(2-chloroethoxy)methane		0.042	0.39	
111-44-4	Bis(2-chloroethyl)ether		0.056	0.39	
108-60-1	Bis(2-chloroisopropyl)ether		0.25	0.39	V-06 UJ
117-81-7	Bis(2-Ethylhexyl)phthalate		0.046	0.39	L-05, V-06 UJ
101-55-3	4-Bromophenylphenylether		0.036	0.39	
85-68-7	Butylbenzylphthalate		0.044	0.39	UJ
86-74-8	Carbazole		0.040	0.20	
106-47-8	4-Chloroaniline		0.069	0.76	UJ
59-50-7	4-Chloro-3-methylphenol		0.041	0.76	
91-58-7	2-Chloronaphthalene		0.034	0.39	
95-57-8	2-Chlorophenol		0.039	0.39	
7005-72-3	4-Chlorophenylphenylether		0.032	0.39	
218-01-9	Chrysene	0.060	0.035	0.20	J
53-70-3	Dibenz(a,h)anthracene		0.054	0.20	UJ
132-64-9	Dibenzofuran		0.035	0.39	

1 - FORM I
ANALYSIS DATA SHEET

B1A

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-04	File ID:	D24S137016.D
Sampled:	05/08/24 13:27	Prepared:	05/12/24 07:21	Analyzed:	05/16/24 17:14
Solids:	85.55	Preparation:	SW-846 3546	Dilution:	1
Initial/Final:	30.35 g / 1 mL				
Batch:	B374087	Sequence:	S104909	Calibration:	2400207	Instrument:	GCMSSV4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
84-74-2	Di-n-butylphthalate		0.15	0.39	UJ
91-94-1	3,3-Dichlorobenzidine		0.085	0.20	
120-83-2	2,4-Dichlorophenol		0.037	0.39	
84-66-2	Diethylphthalate		0.038	0.39	
105-67-9	2,4-Dimethylphenol		0.091	0.39	
131-11-3	Dimethylphthalate		0.037	0.39	
534-52-1	4,6-Dinitro-2-methylphenol		0.31	0.39	
51-28-5	2,4-Dinitrophenol		0.30	0.76	
121-14-2	2,4-Dinitrotoluene		0.040	0.39	
606-20-2	2,6-Dinitrotoluene		0.041	0.39	
117-84-0	Di-n-octylphthalate		0.055	0.39	V-20 UJ
206-44-0	Fluoranthene	0.063	0.032	0.20	J
86-73-7	Fluorene		0.035	0.20	
118-74-1	Hexachlorobenzene		0.038	0.39	
87-68-3	Hexachlorobutadiene		0.035	0.39	
77-47-4	Hexachlorocyclopentadiene		0.26	0.39	L-04, V-05 R
67-72-1	Hexachloroethane		0.036	0.39	
193-39-5	Indeno(1,2,3-cd)pyrene		0.064	0.20	
78-59-1	Isophorone		0.042	0.39	
90-12-0	1-Methylnaphthalene		0.039	0.20	
91-57-6	2-Methylnaphthalene		0.033	0.20	
95-48-7	2-Methylphenol		0.052	0.39	
108-39-4/106-44	3/4-Methylphenol		0.052	0.39	
91-20-3	Naphthalene		0.069	0.20	
88-74-4	2-Nitroaniline		0.048	0.39	
99-09-2	3-Nitroaniline		0.082	0.39	
100-01-6	4-Nitroaniline		0.044	0.39	
98-95-3	Nitrobenzene		0.049	0.39	
88-75-5	2-Nitrophenol		0.038	0.39	
100-02-7	4-Nitrophenol		0.10	0.76	

1 - FORM I
ANALYSIS DATA SHEET

B1A

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-04	File ID:	D24S137016.D
Sampled:	05/08/24 13:27	Prepared:	05/12/24 07:21	Analyzed:	05/16/24 17:14
Solids:	85.55	Preparation:	SW-846 3546	Dilution:	1
Initial/Final:	30.35 g / 1 mL				
Batch:	B374087	Sequence:	S104909	Calibration:	2400207
				Instrument:	GCMSSV4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
86-30-6	N-Nitrosodiphenylamine/Diphenylamine		0.050	0.39	
621-64-7	N-Nitrosodi-n-propylamine		0.055	0.39	
87-86-5	Pentachlorophenol		0.14	0.39	V-05 UJ
85-01-8	Phenanthrene		0.035	0.20	
108-95-2	Phenol		0.050	0.39	
129-00-0	Pyrene	0.11	0.041	0.20	J
110-86-1	Pyridine		0.046	0.39	
95-94-3	1,2,4,5-Tetrachlorobenzene		0.039	0.39	
95-95-4	2,4,5-Trichlorophenol		0.040	0.39	
88-06-2	2,4,6-Trichlorophenol		0.037	0.39	

1 - FORM I
ANALYSIS DATA SHEET

SB1A

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-06	File ID:	D24S137017.D
Sampled:	05/08/24 14:19	Prepared:	05/12/24 07:21	Analyzed:	05/16/24 17:34
Solids:	72.51	Preparation:	SW-846 3546	Dilution:	1
Initial/Final:	30 g / 1 mL				
Batch:	B374087	Sequence:	S104909	Calibration:	2400207	Instrument:	GCMSSV4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
58-90-2	2,3,4,6-Tetrachlorophenol		0.063	0.92	MS-09 UJ
1912-24-9	Atrazine		0.060	0.92	
100-52-7	Benzaldehyde		0.075	0.47	MS-09 UJ
92-52-4	Biphenyl		0.059	0.92	
105-60-2	Caprolactam		0.081	0.47	
83-32-9	Acenaphthene		0.045	0.23	
208-96-8	Acenaphthylene		0.042	0.23	
98-86-2	Acetophenone		0.049	0.47	
62-53-3	Aniline		0.081	0.47	MS-09 UJ
120-12-7	Anthracene		0.041	0.23	
56-55-3	Benzo(a)anthracene		0.038	0.23	
50-32-8	Benzo(a)pyrene		0.042	0.23	
205-99-2	Benzo(b)fluoranthene		0.038	0.23	
191-24-2	Benzo(g,h,i)perylene		0.067	0.23	MS-09 UJ
207-08-9	Benzo(k)fluoranthene		0.042	0.23	
111-91-1	Bis(2-chloroethoxy)methane		0.050	0.47	
111-44-4	Bis(2-chloroethyl)ether		0.067	0.47	
108-60-1	Bis(2-chloroisopropyl)ether		0.30	0.47	V-06 UJ
117-81-7	Bis(2-Ethylhexyl)phthalate		0.055	0.47	L-05, V-06 UJ
101-55-3	4-Bromophenylphenylether		0.043	0.47	
85-68-7	Butylbenzylphthalate		0.052	0.47	UJ
86-74-8	Carbazole		0.047	0.23	
106-47-8	4-Chloroaniline		0.083	0.91	MS-09 UJ
59-50-7	4-Chloro-3-methylphenol		0.049	0.91	
91-58-7	2-Chloronaphthalene		0.041	0.47	UJ
95-57-8	2-Chlorophenol		0.047	0.47	
7005-72-3	4-Chlorophenylphenylether		0.039	0.47	
218-01-9	Chrysene		0.042	0.23	
53-70-3	Dibenz(a,h)anthracene		0.065	0.23	UJ
132-64-9	Dibenzofuran		0.042	0.47	

1 - FORM I
ANALYSIS DATA SHEET

SB1A

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-06	File ID:	D24S137017.D
Sampled:	05/08/24 14:19	Prepared:	05/12/24 07:21	Analyzed:	05/16/24 17:34
Solids:	72.51	Preparation:	SW-846 3546	Dilution:	1
Initial/Final:	30 g / 1 mL				
Batch:	B374087	Sequence:	S104909	Calibration:	2400207	Instrument:	GCMSSV4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
84-74-2	Di-n-butylphthalate		0.18	0.47	UJ
91-94-1	3,3-Dichlorobenzidine		0.10	0.23	MS-09 R
120-83-2	2,4-Dichlorophenol		0.044	0.47	
84-66-2	Diethylphthalate		0.045	0.47	
105-67-9	2,4-Dimethylphenol		0.11	0.47	MS-09 UJ
131-11-3	Dimethylphthalate		0.044	0.47	
534-52-1	4,6-Dinitro-2-methylphenol		0.37	0.47	
51-28-5	2,4-Dinitrophenol		0.36	0.91	
121-14-2	2,4-Dinitrotoluene		0.047	0.47	
606-20-2	2,6-Dinitrotoluene		0.049	0.47	
117-84-0	Di-n-octylphthalate		0.066	0.47	V-20 UJ
206-44-0	Fluoranthene	0.071	0.038	0.23	MS-09, J
86-73-7	Fluorene		0.042	0.23	
118-74-1	Hexachlorobenzene		0.045	0.47	
87-68-3	Hexachlorobutadiene		0.042	0.47	
77-47-4	Hexachlorocyclopentadiene		0.31	0.47	.-04, MS-09, V-0! R
67-72-1	Hexachloroethane		0.043	0.47	MS-09 UJ
193-39-5	Indeno(1,2,3-cd)pyrene		0.076	0.23	UJ
78-59-1	Isophorone		0.050	0.47	
90-12-0	1-Methylnaphthalene		0.047	0.23	
91-57-6	2-Methylnaphthalene		0.040	0.23	
95-48-7	2-Methylphenol		0.063	0.47	
108-39-4/106-44	3/4-Methylphenol		0.062	0.47	
91-20-3	Naphthalene		0.082	0.23	
88-74-4	2-Nitroaniline		0.057	0.47	
99-09-2	3-Nitroaniline		0.097	0.47	
100-01-6	4-Nitroaniline		0.052	0.47	
98-95-3	Nitrobenzene		0.059	0.47	
88-75-5	2-Nitrophenol		0.046	0.47	
100-02-7	4-Nitrophenol		0.12	0.91	

1 - FORM I
ANALYSIS DATA SHEET

SB1A

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-06	File ID:	D24S137017.D
Sampled:	05/08/24 14:19	Prepared:	05/12/24 07:21	Analyzed:	05/16/24 17:34
Solids:	72.51	Preparation:	SW-846 3546	Dilution:	1
Initial/Final:	30 g / 1 mL				
Batch:	B374087	Sequence:	S104909	Calibration:	2400207
Instrument:	GCMSSV4				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
86-30-6	N-Nitrosodiphenylamine/Diphenylamine		0.059	0.47	
621-64-7	N-Nitrosodi-n-propylamine		0.065	0.47	
87-86-5	Pentachlorophenol		0.17	0.47	MS-09, V-05 UJ
85-01-8	Phenanthrene		0.042	0.23	
108-95-2	Phenol		0.059	0.47	
129-00-0	Pyrene	0.082	0.049	0.23	J
110-86-1	Pyridine		0.055	0.47	MS-09 UJ
95-94-3	1,2,4,5-Tetrachlorobenzene		0.046	0.47	
95-95-4	2,4,5-Trichlorophenol		0.048	0.47	
88-06-2	2,4,6-Trichlorophenol		0.044	0.47	

1 - FORM I
ANALYSIS DATA SHEET

SB4A

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-12	File ID:	D24S137018.D
Sampled:	05/08/24 14:53	Prepared:	05/12/24 07:21	Analyzed:	05/16/24 17:54
Solids:	77.87	Preparation:	SW-846 3546	Dilution:	1
Initial/Final:	30.58 g / 1 mL				
Batch:	B374087	Sequence:	S104909	Calibration:	2400207	Instrument:	GCMSSV4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
58-90-2	2,3,4,6-Tetrachlorophenol		0.058	0.84	UJ
1912-24-9	Atrazine		0.055	0.84	
100-52-7	Benzaldehyde		0.068	0.43	UJ
92-52-4	Biphenyl		0.054	0.84	
105-60-2	Caprolactam		0.074	0.43	
83-32-9	Acenaphthene		0.041	0.21	
208-96-8	Acenaphthylene		0.039	0.21	
98-86-2	Acetophenone		0.045	0.43	
62-53-3	Aniline		0.074	0.43	
120-12-7	Anthracene		0.038	0.21	
56-55-3	Benzo(a)anthracene		0.035	0.21	
50-32-8	Benzo(a)pyrene		0.039	0.21	
205-99-2	Benzo(b)fluoranthene		0.035	0.21	
191-24-2	Benzo(g,h,i)perylene		0.061	0.21	
207-08-9	Benzo(k)fluoranthene		0.039	0.21	
111-91-1	Bis(2-chloroethoxy)methane		0.046	0.43	
111-44-4	Bis(2-chloroethyl)ether		0.061	0.43	
108-60-1	Bis(2-chloroisopropyl)ether		0.27	0.43	V-06 UJ
117-81-7	Bis(2-Ethylhexyl)phthalate		0.051	0.43	L-05, V-06 UJ
101-55-3	4-Bromophenylphenylether		0.039	0.43	
85-68-7	Butylbenzylphthalate		0.048	0.43	UJ
86-74-8	Carbazole		0.043	0.21	
106-47-8	4-Chloroaniline		0.076	0.83	UJ
59-50-7	4-Chloro-3-methylphenol		0.045	0.83	
91-58-7	2-Chloronaphthalene		0.037	0.43	
95-57-8	2-Chlorophenol		0.043	0.43	
7005-72-3	4-Chlorophenylphenylether		0.035	0.43	
218-01-9	Chrysene		0.038	0.21	
53-70-3	Dibenz(a,h)anthracene		0.059	0.21	UJ
132-64-9	Dibenzofuran		0.038	0.43	

1 - FORM I
ANALYSIS DATA SHEET

SB4A

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-12	File ID:	D24S137018.D
Sampled:	05/08/24 14:53	Prepared:	05/12/24 07:21	Analyzed:	05/16/24 17:54
Solids:	77.87	Preparation:	SW-846 3546	Dilution:	1
Initial/Final:	30.58 g / 1 mL				
Batch:	B374087	Sequence:	S104909	Calibration:	2400207	Instrument:	GCMSSV4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
84-74-2	Di-n-butylphthalate		0.16	0.43	UJ
91-94-1	3,3-Dichlorobenzidine		0.092	0.21	
120-83-2	2,4-Dichlorophenol		0.041	0.43	
84-66-2	Diethylphthalate		0.041	0.43	
105-67-9	2,4-Dimethylphenol		0.099	0.43	
131-11-3	Dimethylphthalate		0.040	0.43	
534-52-1	4,6-Dinitro-2-methylphenol		0.34	0.43	
51-28-5	2,4-Dinitrophenol		0.33	0.83	
121-14-2	2,4-Dinitrotoluene		0.043	0.43	
606-20-2	2,6-Dinitrotoluene		0.045	0.43	
117-84-0	Di-n-octylphthalate		0.060	0.43	V-20 UJ
206-44-0	Fluoranthene		0.035	0.21	
86-73-7	Fluorene		0.038	0.21	
118-74-1	Hexachlorobenzene		0.041	0.43	
87-68-3	Hexachlorobutadiene		0.039	0.43	
77-47-4	Hexachlorocyclopentadiene		0.28	0.43	L-04, V-05 R
67-72-1	Hexachloroethane		0.039	0.43	
193-39-5	Indeno(1,2,3-cd)pyrene		0.069	0.21	
78-59-1	Isophorone		0.045	0.43	
90-12-0	1-Methylnaphthalene		0.043	0.21	
91-57-6	2-Methylnaphthalene		0.036	0.21	
95-48-7	2-Methylphenol		0.057	0.43	
108-39-4/106-44	3/4-Methylphenol		0.056	0.43	
91-20-3	Naphthalene		0.075	0.21	
88-74-4	2-Nitroaniline		0.052	0.43	
99-09-2	3-Nitroaniline		0.089	0.43	
100-01-6	4-Nitroaniline		0.048	0.43	
98-95-3	Nitrobenzene		0.054	0.43	
88-75-5	2-Nitrophenol		0.042	0.43	
100-02-7	4-Nitrophenol		0.11	0.83	

1 - FORM I
ANALYSIS DATA SHEET

SB4A

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-12	File ID:	D24S137018.D
Sampled:	05/08/24 14:53	Prepared:	05/12/24 07:21	Analyzed:	05/16/24 17:54
Solids:	77.87	Preparation:	SW-846 3546	Dilution:	1
Initial/Final:	30.58 g / 1 mL				
Batch:	B374087	Sequence:	S104909	Calibration:	2400207
Instrument:	GCMSSV4				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
86-30-6	N-Nitrosodiphenylamine/Diphenylamine		0.054	0.43	
621-64-7	N-Nitrosodi-n-propylamine		0.060	0.43	
87-86-5	Pentachlorophenol		0.15	0.43	V-05 UJ
85-01-8	Phenanthrene		0.038	0.21	
108-95-2	Phenol		0.054	0.43	
129-00-0	Pyrene		0.045	0.21	
110-86-1	Pyridine		0.050	0.43	
95-94-3	1,2,4,5-Tetrachlorobenzene		0.042	0.43	
95-95-4	2,4,5-Trichlorophenol		0.044	0.43	
88-06-2	2,4,6-Trichlorophenol		0.041	0.43	

1 - FORM I
ANALYSIS DATA SHEET

SB7

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-17	File ID:	D24S137019.D
Sampled:	05/08/24 15:39	Prepared:	05/12/24 07:21	Analyzed:	05/16/24 18:14
Solids:	69.34	Preparation:	SW-846 3546	Dilution:	1
Initial/Final:	30.39 g / 1 mL				
Batch:	B374087	Sequence:	S104909	Calibration:	2400207	Instrument:	GCMSSV4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
58-90-2	2,3,4,6-Tetrachlorophenol		0.065	0.95	UJ
1912-24-9	Atrazine		0.062	0.95	
100-52-7	Benzaldehyde	0.086	0.077	0.48	J
92-52-4	Biphenyl		0.061	0.95	
105-60-2	Caprolactam		0.084	0.48	
83-32-9	Acenaphthene		0.046	0.24	
208-96-8	Acenaphthylene		0.044	0.24	
98-86-2	Acetophenone		0.050	0.48	
62-53-3	Aniline		0.084	0.48	
120-12-7	Anthracene		0.043	0.24	
56-55-3	Benzo(a)anthracene		0.039	0.24	
50-32-8	Benzo(a)pyrene		0.044	0.24	
205-99-2	Benzo(b)fluoranthene		0.039	0.24	
191-24-2	Benzo(g,h,i)perylene		0.069	0.24	
207-08-9	Benzo(k)fluoranthene		0.044	0.24	
111-91-1	Bis(2-chloroethoxy)methane		0.052	0.48	
111-44-4	Bis(2-chloroethyl)ether		0.069	0.48	
108-60-1	Bis(2-chloroisopropyl)ether		0.30	0.48	V-06 UJ
117-81-7	Bis(2-Ethylhexyl)phthalate		0.057	0.48	L-05, V-06 UJ
101-55-3	4-Bromophenylphenylether		0.044	0.48	
85-68-7	Butylbenzylphthalate		0.054	0.48	UJ
86-74-8	Carbazole		0.049	0.24	
106-47-8	4-Chloroaniline		0.086	0.94	UJ
59-50-7	4-Chloro-3-methylphenol		0.050	0.94	
91-58-7	2-Chloronaphthalene		0.042	0.48	
95-57-8	2-Chlorophenol		0.049	0.48	
7005-72-3	4-Chlorophenylphenylether		0.040	0.48	
218-01-9	Chrysene		0.043	0.24	
53-70-3	Dibenz(a,h)anthracene		0.067	0.24	UJ
132-64-9	Dibenzofuran		0.043	0.48	

1 - FORM I
ANALYSIS DATA SHEET

SB7

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-17	File ID:	D24S137019.D
Sampled:	05/08/24 15:39	Prepared:	05/12/24 07:21	Analyzed:	05/16/24 18:14
Solids:	69.34	Preparation:	SW-846 3546	Dilution:	1
Initial/Final:	30.39 g / 1 mL				
Batch:	B374087	Sequence:	S104909	Calibration:	2400207	Instrument:	GCMSSV4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
84-74-2	Di-n-butylphthalate		0.18	0.48	UJ
91-94-1	3,3-Dichlorobenzidine		0.10	0.24	
120-83-2	2,4-Dichlorophenol		0.046	0.48	
84-66-2	Diethylphthalate		0.047	0.48	
105-67-9	2,4-Dimethylphenol		0.11	0.48	
131-11-3	Dimethylphthalate		0.046	0.48	
534-52-1	4,6-Dinitro-2-methylphenol		0.38	0.48	
51-28-5	2,4-Dinitrophenol		0.37	0.94	
121-14-2	2,4-Dinitrotoluene		0.049	0.48	
606-20-2	2,6-Dinitrotoluene		0.051	0.48	
117-84-0	Di-n-octylphthalate		0.068	0.48	V-20 UJ
206-44-0	Fluoranthene		0.040	0.24	
86-73-7	Fluorene		0.043	0.24	
118-74-1	Hexachlorobenzene		0.047	0.48	
87-68-3	Hexachlorobutadiene		0.044	0.48	
77-47-4	Hexachlorocyclopentadiene		0.32	0.48	L-04, V-05 R
67-72-1	Hexachloroethane		0.045	0.48	
193-39-5	Indeno(1,2,3-cd)pyrene		0.078	0.24	
78-59-1	Isophorone		0.051	0.48	
90-12-0	1-Methylnaphthalene		0.048	0.24	
91-57-6	2-Methylnaphthalene		0.041	0.24	
95-48-7	2-Methylphenol		0.065	0.48	
108-39-4/106-44	3/4-Methylphenol		0.064	0.48	
91-20-3	Naphthalene		0.085	0.24	
88-74-4	2-Nitroaniline		0.059	0.48	
99-09-2	3-Nitroaniline		0.10	0.48	
100-01-6	4-Nitroaniline		0.054	0.48	
98-95-3	Nitrobenzene		0.061	0.48	
88-75-5	2-Nitrophenol		0.047	0.48	
100-02-7	4-Nitrophenol		0.13	0.94	

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ANALYSIS DATA SHEET

SB7

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-17	File ID:	D24S137019.D
Sampled:	05/08/24 15:39	Prepared:	05/12/24 07:21	Analyzed:	05/16/24 18:14
Solids:	69.34	Preparation:	SW-846 3546	Dilution:	1
Initial/Final:	30.39 g / 1 mL				
Batch:	B374087	Sequence:	S104909	Calibration:	2400207
Instrument:	GCMSSV4				

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
86-30-6	N-Nitrosodiphenylamine/Diphenylamine		0.061	0.48	
621-64-7	N-Nitrosodi-n-propylamine		0.067	0.48	
87-86-5	Pentachlorophenol		0.17	0.48	V-05 UJ
85-01-8	Phenanthrene		0.043	0.24	
108-95-2	Phenol		0.061	0.48	
129-00-0	Pyrene	0.053	0.050	0.24	J
110-86-1	Pyridine		0.056	0.48	
95-94-3	1,2,4,5-Tetrachlorobenzene		0.048	0.48	
95-95-4	2,4,5-Trichlorophenol		0.049	0.48	
88-06-2	2,4,6-Trichlorophenol		0.046	0.48	

1 - FORM I
ANALYSIS DATA SHEET

DUP

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-19	File ID:	D24S137020.D
Sampled:	05/08/24 15:45	Prepared:	05/12/24 07:21	Analyzed:	05/16/24 18:34
Solids:	69.57	Preparation:	SW-846 3546	Dilution:	1
Initial/Final:	30.32 g / 1 mL				
Batch:	B374087	Sequence:	S104909	Calibration:	2400207	Instrument:	GCMSSV4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
58-90-2	2,3,4,6-Tetrachlorophenol		0.065	0.95	UJ
1912-24-9	Atrazine		0.062	0.95	
100-52-7	Benzaldehyde	0.098	0.077	0.48	J
92-52-4	Biphenyl		0.061	0.95	
105-60-2	Caprolactam		0.084	0.48	
83-32-9	Acenaphthene		0.046	0.24	
208-96-8	Acenaphthylene		0.044	0.24	
98-86-2	Acetophenone		0.050	0.48	
62-53-3	Aniline		0.084	0.48	
120-12-7	Anthracene		0.043	0.24	
56-55-3	Benzo(a)anthracene		0.039	0.24	
50-32-8	Benzo(a)pyrene		0.044	0.24	
205-99-2	Benzo(b)fluoranthene		0.039	0.24	
191-24-2	Benzo(g,h,i)perylene		0.069	0.24	
207-08-9	Benzo(k)fluoranthene		0.044	0.24	
111-91-1	Bis(2-chloroethoxy)methane		0.052	0.48	
111-44-4	Bis(2-chloroethyl)ether		0.069	0.48	
108-60-1	Bis(2-chloroisopropyl)ether		0.30	0.48	V-06 UJ
117-81-7	Bis(2-Ethylhexyl)phthalate		0.057	0.48	L-05, V-06 UJ
101-55-3	4-Bromophenylphenylether		0.044	0.48	
85-68-7	Butylbenzylphthalate		0.054	0.48	UJ
86-74-8	Carbazole		0.049	0.24	
106-47-8	4-Chloroaniline		0.085	0.94	UJ
59-50-7	4-Chloro-3-methylphenol		0.050	0.94	
91-58-7	2-Chloronaphthalene		0.042	0.48	
95-57-8	2-Chlorophenol		0.048	0.48	
7005-72-3	4-Chlorophenylphenylether		0.040	0.48	
218-01-9	Chrysene		0.043	0.24	
53-70-3	Dibenz(a,h)anthracene		0.067	0.24	UJ
132-64-9	Dibenzofuran		0.043	0.48	

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ANALYSIS DATA SHEET

DUP

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-19	File ID:	D24S137020.D
Sampled:	05/08/24 15:45	Prepared:	05/12/24 07:21	Analyzed:	05/16/24 18:34
Solids:	69.57	Preparation:	SW-846 3546	Dilution:	1
Initial/Final:	30.32 g / 1 mL				
Batch:	B374087	Sequence:	S104909	Calibration:	2400207	Instrument:	GCMSSV4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
84-74-2	Di-n-butylphthalate		0.18	0.48	UJ
91-94-1	3,3-Dichlorobenzidine		0.10	0.24	
120-83-2	2,4-Dichlorophenol		0.046	0.48	
84-66-2	Diethylphthalate		0.047	0.48	
105-67-9	2,4-Dimethylphenol		0.11	0.48	
131-11-3	Dimethylphthalate		0.046	0.48	
534-52-1	4,6-Dinitro-2-methylphenol		0.38	0.48	
51-28-5	2,4-Dinitrophenol		0.37	0.94	
121-14-2	2,4-Dinitrotoluene		0.049	0.48	
606-20-2	2,6-Dinitrotoluene		0.051	0.48	
117-84-0	Di-n-octylphthalate		0.068	0.48	V-20 UJ
206-44-0	Fluoranthene		0.040	0.24	
86-73-7	Fluorene		0.043	0.24	
118-74-1	Hexachlorobenzene		0.047	0.48	
87-68-3	Hexachlorobutadiene		0.044	0.48	
77-47-4	Hexachlorocyclopentadiene		0.32	0.48	L-04, V-05 R
67-72-1	Hexachloroethane		0.045	0.48	
193-39-5	Indeno(1,2,3-cd)pyrene		0.078	0.24	
78-59-1	Isophorone		0.051	0.48	
90-12-0	1-Methylnaphthalene		0.048	0.24	
91-57-6	2-Methylnaphthalene		0.041	0.24	
95-48-7	2-Methylphenol		0.065	0.48	
108-39-4/106-44	3/4-Methylphenol		0.064	0.48	
91-20-3	Naphthalene		0.085	0.24	
88-74-4	2-Nitroaniline		0.059	0.48	
99-09-2	3-Nitroaniline		0.10	0.48	
100-01-6	4-Nitroaniline		0.054	0.48	
98-95-3	Nitrobenzene		0.061	0.48	
88-75-5	2-Nitrophenol		0.047	0.48	
100-02-7	4-Nitrophenol		0.13	0.94	

1 - FORM I
ANALYSIS DATA SHEET

DUP

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-19	File ID:	D24S137020.D
Sampled:	05/08/24 15:45	Prepared:	05/12/24 07:21	Analyzed:	05/16/24 18:34
Solids:	69.57	Preparation:	SW-846 3546	Dilution:	1
Initial/Final:	30.32 g / 1 mL				
Batch:	B374087	Sequence:	S104909	Calibration:	2400207
				Instrument:	GCMSSV4

CAS NO.	COMPOUND	CONC. (mg/Kg dry)	MDL	RL	Q
86-30-6	N-Nitrosodiphenylamine/Diphenylamine		0.061	0.48	
621-64-7	N-Nitrosodi-n-propylamine		0.067	0.48	
87-86-5	Pentachlorophenol		0.17	0.48	V-05 UJ
85-01-8	Phenanthrene		0.043	0.24	
108-95-2	Phenol		0.061	0.48	
129-00-0	Pyrene	0.057	0.050	0.24	J
110-86-1	Pyridine		0.056	0.48	
95-94-3	1,2,4,5-Tetrachlorobenzene		0.048	0.48	
95-95-4	2,4,5-Trichlorophenol		0.049	0.48	
88-06-2	2,4,6-Trichlorophenol		0.046	0.48	

Client: NYSDEC-PM Ryan W. Richard
Laboratory: Con-Test, A PACE Analytical Laboratory INC (NELAP #NY10899)
Site: Former Tivoli Water Tower Site DEC site # 314135
Location: 19 Pine Street, Tivoli, New York

Method Review: 8270E 1,4-Dioxane

Lab Job ID: 24E1437

Lab ID	Field ID	Collection Date	Matrix
24E1437-02	CG-2	5/8/2024	Soil
24E1437-04	B1A	5/8/2024	Soil
24E1437-06	SB1A	5/8/2024	Soil
24E1437-12	SB4A	5/8/2024	Soil
24E1437-17	SB7	5/8/2024	Soil
24E1437-19	DUP	5/8/2024	Soil

Reviewer Summary:
Samples were handled and analyzed properly under EPA Region 2 protocol Standard Operating Procedure for Validation of Semivolatile Data, QA-HWSS-A-005 along with the EPA's National Functional Guideline for Organic Compounds.
• Within blank sample B374074-BS1, surrogate 1,4-Dioxane-d8 was outside of limit but did not led to any further qualification.
• Target analyte was not detected within duplicate pair SB7 and DUP, no further qualification needed.
All data is within category B criterion and usable.

Client: NYSDEC-PM Ryan W. Richard
Laboratory: Con-Test, A PACE Analytical Laboratory INC (NELAP #NY10899)
Site: Former Tivoli Water Tower Site DEC site # 314135
Location: 19 Pine Street, Tivoli, New York
Job ID: 24E1437

8270E 1,4-Doxane

Criteria	Y	N	NA	Comment
A. Sample Receipt				
Were samples within technical hold time and extraction period?	x			
Cooling Temp =≤ 6°C?	x			
B. GC/MS Instrument Performance Check				
Were DFTPP performance results within criteria?	x			
Were all samples analyzed within the 12 hour time period?	x			
Ion abundance criteria met?	x			
C. Initial Calibration				
Was a 5-point calibration conducted?	x			
RSD% within acceptable criterion?	x			
Was curve fit used for evaluation? If yes, did the I.C. meet the curve fit acceptability of ≥0.990?	x			
Was %D for target analytes within acceptable limit.	x			
Was RRF values meet for target analyte?	x			
Was the Initial Calibration Verification (ICV) done after the I.C.?	x			
D. Continuing Calibration				
Was it done every 12 hours after Initial Calibration to verify it?	x			
Were (%D) and relative response factors (RRF) within acceptable criteria?	x			

Criteria	Y	N	NA	Comment
E. Laboratory Blanks				
Was a lab blank associated with each sample of SDG?	x			
Was blank analyzed every 20 samples?	x			
Were contamination found, if so qualification may be necessary?		x		
F. Field Blanks/Trip Blank				
Was a field blanks associated with each sample of SDG?		x		
Were target compounds detected in it?			x	
G. Surrogate Spikes (Isotope Dilution Recovery)				
Were surrogate percent recovery (%R) within QC limits?(1,4-Dioxane-d8)	x			Within blank sample B374074-BS1, surrogate 1,4-Dioxane-d8 was outside of limit but did not led to any further qualification.
If the (%R) for one or more surrogates were out of QC, was reanalysis performed to confirm %R?		x		
H. Matrix Spike/Matrix Duplicate				**SB1A MS/MSD**
Were MS and MSD analyzed for SDG?	x			
Was MS/MSD done every 20 samples ?	x			
Were MS/MSD (%R) and RPD within QC?	x			
I. Laboratory Control Sample				
Was LCS analysis for this SDG?	x			
Was LCS analysis per analysis batch?	x			
Was LCS (%R) within QC Limits?	x			
J. Field Duplicate				**SB7 and DUP**
Were field duplicates identified in this SDG?	x			
Were target compounds detected in it?		x		

Criteria	Y	N	NA	Comment
K. Internal Standard				
Was area response within acceptance limits?	x			
Were retention times within ± 30 sec of cal. standard?	x			
L. Compound Quantitation				
Were correct internal standards, quantitation ions and RRF used in quantitate compounds?	x			
Were compound quantitates and RLs adjusted to reflect sample dilutions and dry weights to continuous calibration?	x			
M. Target Compound Identification				
Were relative retention times (RRTs) within ±0.06 units of standard?	x			
Did the spectrum meet EPA "Functional Guidelines"?	x			
Were chromatograms peaks verified and accounted?	x			
N. Overall Assessment of Data				
Was overall assessment of data found to be acceptable?	x			

Comments: All data were within Cat. B criterion and usable.

Client: NYSDEC-PM Ryan W. Richard
Laboratory: Con-Test, A PACE Analytical Laboratory INC (NELAP #NY10899)
Site: Former Tivoli Water Tower Site DEC site # 314135
Location: 19 Pine Street, Tivoli, New York

Method Review : 1633

Lab Job ID: 24E1437

Lab ID	Field ID	Collection Date	Matrix
24E1437-02	CG-2	5/8/2024	Soil
24E1437-04	B1A	5/8/2024	Soil
24E1437-06	SB1A	5/8/2024	Soil
24E1437-12	SB4A	5/8/2024	Soil
24E1437-17	SB7	5/8/2024	Soil
24E1437-19	DUP	5/8/2024	Soil

Reviewer Summary:
Samples were handled and analyzed properly under EPA's National Functional Guideline for Organic Compounds, DEC's Sampling, Analysis, And Assessment of Per- and Polyfluoroalkyl Substances and method 1633.
• Within continuing calibration verification, S104823-CCV, NMeFoSAA was bias low but not detected in any associated sampled, thus no qualification is needed.
• Within blank B374779-BS1, compound 1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS) was detected but not in associated sample DUP, thus no qualification is needed.
• Within sample CG-2 surrogates 13C2-6:2FTS and 13C2-8:2FTS recovered above limits but was not detected, no further qualification needed.
• Within matrix sample B374213-MS1, compounds 2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA) was below recovery which led to qualification within parent sample SB1A as a non-detect estimate "UJ" value.
• Field duplicate pair SB7 and DUP samples results are within acceptable quantities except for analytes PEPeA and PFHxA, which is above 30%.They were qualified as estimate values in detection, no further qualification is needed.
• Within sample CG-2 compound Perfluorotetradecanoic acid (PFTeDA) qualifier ion ratio was greater than 150% but was detected at estimate "J" value, so no further qualification needed.
All data is within category B criterion and usable.

Client: NYSDEC-PM Ryan W. Richard
Laboratory: Con-Test, A PACE Analytical Laboratory INC (NELAP #NY10899)
Site: Former Tivoli Water Tower Site DEC site # 314135
Location: 19 Pine Street, Tivoli, New York
Job ID: 24E1437

1633 Method

Criteria	Y	N	NA	Comment
A. Sample Receipt				
Were samples within technical hold time and extraction period?	x			
Cooling Temp = 0°C - 6°C?	x			
B. Initial Calibration				
Was a 5-point calibration conducted?	x			
%RSD within acceptable criterion?	x			
Was curve fit used for evaluation? If yes, did the I.C. meet the curve fit acceptability of ≥0.990?	x			
Was the Initial Calibration Verification (ICV) done after the I.C.?	x			
C. Continuing Calibration				
Was it done every 12 hours after Initial Calibration to verify it?	x			Within S104823-CCV, NMeFoSAA was bias low but not detected in any associated sampled, thus no qualification is needed.
Were recoveries within acceptable criteria?		x		
D. Laboratory Blanks				
Was a lab blank associated with each sample of SDG?	x			Within blank B374779-BS1, compound 1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS) was detected but not in associated sample DUP, thus no qualification is needed.
Was blank analyzed every 20 samples?	x			
Were contamination found, if so qualification may be necessary?	x			

Criteria	Y	N	NA	Comment
E. Field Blanks/Trip Blank				
Was a field blank associated with each sample of SDG?		x		
Were target compounds detected in it?			x	
F. Internal Standards (Isotope Dilution Recovery)				
Were internal standards percent recovery (%R) within QC limits?		x		Within sample CG-2 surrogates 13C2-6:2FTS and 13C2-8:2FTS recovered above limits but was not detected, no further qualification needed.
G. Matrix Spike/Matrix Duplicate				**SB1A MS/MSD**
Were MS and MSD analyzed for SDG?	x			Within B374213-MS1, compounds 2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)(5:3FTCA) was below recovery which led to qualification within parent sample SB1A as a non-detect estimate "UJ" value. See attachment.
Was MS/MSD done every 20 samples?	x			
Were MS/MSD (%R) and RPD within QC?		x		
H. Laboratory Control Sample (LCS)				
Was LCS analysis performed for this SDG?	x			
Was LCS analysis per analysis performed per batch?	x			
Was LCS (%R) within QC Limits?	x			
I. Field Duplicate				**SB7 and DUP**
Were field duplicates identified in this SDG?	x			Duplicate pair SB7 and DUP samples results are within acceptable quantities except for analytes PEPeA and PFHxA, which is above 30%.They were qualified as estimate values in detection, no further qualification is needed. See attachment.
Were target compounds detected in it?	x			

Criteria	Y	N	NA	Comment
J. Compound Quantitation				
Were correct internal standards, quantitation ions, and RRF used in quantitate compounds?		x		Within sample CG-2 compound Perfluorotetradecanoic acid (PFTeDA) qualifier ion ratio was greater than 150% but was detected at estimate "J" value, so no further qualification needed.
Were compound quantitates and RLs adjusted to reflect sample dilutions and dry weights to continuous calibration?	x			
K. Target Compound Identification				
Were relative retention times (RRTs) within ±0.06 units of standard?	x			
Did the spectrum meet EPA "Functional Guidelines"?	x			
Were chromatograms peaks verified and accounted?	x			
L. Overall Assessment of Data				
Was overall assessment of data found to be acceptable?	x			

Comments: Due to failure in recovery of matrix sample qualification was made. All results were within Cat. B criterion and usable.

Blind Duplicate Comparison

Analytes	Original Sample SB7	Blind Duplicate DUP	Relative Percent Difference
Perfluorooctanesulfonic acid (PFOS)	0.62	0.55	11.97
Perfluoroundecanoic Acid (PFUnA)	0.12	0.11	8.70
Perfluoropentanoic Acid (PFPeA)	0.082	0.13	45.28
Perfluorohexanoic acid (PFHxA)	0.083	0.12	36.45
Perfluorododecanoic acid (PFDoA)	0.047	0.041	13.64
Perfluorooctanoic acid (PFOA)	0.49	0.4	20.22
Perfluorodecanoic acid (PFDA)	0.11	0.096	13.59
Perfluorobutanesulfonic acid (PFBS)	0.035	0.034	2.90
Perfluoroheptanoic acid (PFHpA)	0.12	0.14	15.38
Perfluorononanoic acid (PFNA)	0.21	0.2	4.88
Perfluorotetradecanoic acid (PFTeDA)	0.023	-	na
Perfluorotridecanoic Acid (PFTriA/PFTrDA)	0.04	0.031	25.35

Reviewer comment: Duplicate pair SB7 and DUP samples results are within acceptable quantities except for analytes PEPeA and PFHxA, which is above 30%.They were qualified as estimate values in detection, no further qualification is needed.

1 - FORM I
ANALYSIS DATA SHEET

SB1A

Laboratory:	Pace New England			Work Order:	24E1437
Client:	NYS Division of Environmental Ren			Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-06	File ID:	24E1437-06.d
Sampled:	05/08/24 14:19	Prepared:	05/15/24 00:00	Analyzed:	05/18/24 10:24
Solids:	72.51	Preparation:	Draft Method 1633	Dilution:	1
Initial/Final:	6.919 g / 5 mL				
Batch:	B374213	Sequence:	S104823	Calibration:	2400518
Instrument:	QQQ6				

CAS NO.	COMPOUND	CONC. (µg/kg dry)	MDL	RL	Q	
919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (ADON		0.060	0.80		
756426-58-1	9Cl-PF3ONS (F53B Minor)		0.058	0.80		
763051-92-9	11Cl-PF3OUdS (F53B Major)		0.088	0.80		
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)(3:3		0.19	2.0		
914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid(FPePA)		1.3	10	MS-07A	UJ
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)(7:3		1.5	10		
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEt		0.031	0.40		
377-73-1	Perfluoro-3-methoxypropanoic acid (PFMPA)		0.033	0.40		
863090-89-5	Perfluoro-4-methoxybutanoic acid (PFMBA)		0.033	0.40		
151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid (NFDHA		0.060	0.40		

Client: NYSDEC-PM Ryan W. Richard
Laboratory: Con-Test, A PACE Analytical Laboratory INC (NELAP #NY10899)
Site: Former Tivoli Water Tower Site DEC site # 314135
Location: 19 Pine Street, Tivoli, New York

Method Review: 8081B Pesticides

Lab Job ID: 24E1437

Lab ID	Field ID	Collection Date	Matrix
24E1437-02	CG-2	5/8/2024	Soil
24E1437-04	B1A	5/8/2024	Soil
24E1437-06	SB1A	5/8/2024	Soil
24E1437-12	SB4A	5/8/2024	Soil
24E1437-17	SB7	5/8/2024	Soil
24E1437-19	DUP	5/8/2024	Soil

Reviewer Summary:
Samples were handled and analyzed properly under EPA Region 2 Standard Operating Procedure for Validation of Pesticides Data, QA-HWSS-A_007.
• Within continues calibration for closing CCV S104592-CCV8, analyte 4,4'-DDD[2C] was above laboratory limits %D, but was not present in results. No further qualification is needed.
• Within laboratory control sample B374053-BSD1, Methoxchlor fail RPD. No further qualification is needed.
• Field Duplicate samples SM7 and DUP did not have any target analytes detected, there is no bases for further comparison.
All data is within category B criterion and usable.

Client: NYSDEC-PM Ryan W. Richard
Laboratory: Con-Test, A PACE Analytical Laboratory INC (NELAP #NY10899)
Site: Former Tivoli Water Tower Site DEC site # 314135
Location: 19 Pine Street, Tivoli, New York
Job ID: 24E1437

Method 8081B Pesticides

Criteria	Y	N	NA	Comment
A. Sample Receipt				
With in technical hold time and extraction period?	x			
Cooling Temp = >6°C	x			
B. GC/ECD Instrument Performance Check				
Were Resolution Check Mixture (RESC) run and resolution criteria?	x			
Was PEM analysis performed within criteria for compound?	x			
Were Mid-point individual standard mixture performed and %resolution with in criteria?	x			
C. Initial Calibration				
Was the 5 point calibration with all mixtures and concentration run under criteria?	x			
Was a single point of Toxaphene at low standard in ICAL or five point Toxaphene independent runs?	x			
Were %RSD lower than criteria?	x			
D. Continuing Calibration				
Was it done every 12 hours after I.C. to verify it?	x			
Were (%D), relative respond factors (RRF) and RT within criteria?		x		Analyte 4,4'-DDD[2C] was above laboratory limits %D and SOP limit of 25% for closing CCV, file S104592-CCV8, but was not present in results. No further qualification is needed.
Time elapse between CCV, Instrumental Blank, CCV PEM, CS3 **did not** exceed 14 hrs.?	x			
PEM % breakdown did not exceed criteria?	x			

Criteria	Y	N	NA	Comment
E. Blanks				
Was a lab blank associated with each sample of SDG?	x			
Were sulfur blanks run if needed?		x		
Were TCLP/ SPL Leachate Extractions Blanks (LEB) prepared and extracted at specific frequency?		x		
Were contaminates found, if so qualification may be necessary?		x		
F. Surrogate spikes				
Did Spike contain two surrogates (TCX and DCM) ran in all sample including blanks and standards?	x			
Were Surrogate percent recovery (%R) with in QC limits? (30-150%)	x			
Were RT of Surrogates calculated for each sample?	x			
G. Matrix Spike/Matrix duplicate				**SB1A MS/MSD**
Were MS and MSD analyzed for SDG or matrix?	x			
Was MS/MSD done at specific frequency required by criteria?	x			
Were MS/MSD (%R) and RPD within QC?	x			
H. Laboratory Control Sample				
Was LCS analysis for this SDG and at specific frequency as required criteria?	x			Sample B374053-BSD1 had Methoxchlor fail RPD of LCS, no further qualification is needed.
Was LCS (%R) within QC Limits?	x			
I. Field Duplicates				**SB7 and DUP**
Were field duplicates collected?	x			
Were analytes detected within samples?		x		
Were %RPD < 50% for observed analytes?			x	

Criteria	Y	N	NA	Comment
J. Florisil Cartridge Performance Check				
Were %R within specification.			x	
K. Target Analyte Identification				
RTs of surrogates and reported targets analytes are with in calculated window?	x			
%D of target analytes and Toxaphene are calculated to less then 25%?	x			
All cosmographical observation are within QC criteria?	x			
L. GC/MS Confirmation				
GC/MS confirmation is done to specific criteria of both column for single compound concentration ≥ 5 ng/µ and for Toxaphene concentration of ≥ 125 ng/µL?	x			
M. Target Analyte Quantitation and Reported CRQL				
Were target analyte and sample specific CRQL and CF are calculated correctly?	x			
N. EPA Reginal QA/QC				
Were QA/QC performed under regional criterion	x			
Were field duplicates collected?		x		
O. Overall assessment of data				
Was Overall assessment of data found to be acceptable?	x			

Comments: All results are within Cat. B criterion and usable.

Client: NYSDEC-PM Ryan W. Richard
Laboratory: Con-Test, A PACE Analytical Laboratory INC (NELAP #NY10899)
Site: Former Tivoli Water Tower Site DEC site # 314135
Location: 19 Pine Street, Tivoli, New York

Method Review: 8082A PCB

Lab Job ID: 24E1437

Lab ID	Field ID	Collection Date	Matrix
24E1437-02	CG-2	5/8/2024	Soil
24E1437-04	B1A	5/8/2024	Soil
24E1437-06	SB1A	5/8/2024	Soil
24E1437-12	SB4A	5/8/2024	Soil
24E1437-17	SB7	5/8/2024	Soil
24E1437-19	DUP	5/8/2024	Soil

Reviewer Summary :
Samples were handled and analyzed properly under EPA Region 2 protocol Standard Operating Procedure for Validation of Polychlorinated Biphenyl (PCB) Aroclor Data, SOP#QA-HWSS-A-006.
• Duplicate samples SB7 and DUP had analyte Arocolo-1254 detected, which was within acceptable comparison.
All data is with in category B criterion and usable.

Field Duplicate Comparison

Analyte	Original Sample SB7	Blind Duplicate DUP	Relative Percent Difference
Aroclor-1254	0.091	0.11	18.91

Reviewer comment: SB7 and it duplicate DUP compare well with in acceptable RPD.

Client: NYSDEC-PM Ryan W. Richard
Laboratory: Con-Test, A PACE Analytical Laboratory INC (NELAP #NY10899)
Site: Former Tivoli Water Tower Site DEC site # 314135
Location: 19 Pine Street, Tivoli, New York
Job ID: 24E1437

8082A PCB

Criteria	Y	N	NA	Comment
A. Sample Receipt				
With in technical hold time and extraction period?	x			
Cooling Temp = >6 °C	x			
B. Initial Calibration				
Was a 5 point calibration?	x			
RSD% for CF are within verification perimeter?	x			
Verified RT window. CFs and RSD are calculated and within bounds?	x			
C. Continuing Calibration				
Was it done every 12 hours after I.C. to verify it?	x			
Were (%D) and relative respond factors (RRF) within bounds of CCV.	x			
Were the RTs of each target and surrogate in Arcelor standard (C3) and within RT window?	x			
D. Laboratory/Field Blanks				
Was a lab blank associated with each sample of SDG?	x			
Was blank analyzed every 20 samples?	x			
Were contamination found, if so qualification may be necessary.	x			

Criteria	Y	N	NA	Comment
E. Surrogate Spikes				
Were Surrogate percent recovery (%R) with in QC limits?	x			
If the (%R) for one or more surrogates were out of QC, was reanalysis performed to confirm %R?			x	
F. Matrix Spike/Matrix Duplicate				
Were MS and MSD analyzed for SDG?	x			
Were MS/MSD (%R) and RPD within QC?	x			
G. Laboratory Control Sample				
Was LCS analysis for this SDG?	x			
Was LCS (%R) QC Limits?	x			
H. Target Analyte Identification				
Were relative retention times (RRTs) with in ±0.05 units of standard?	x			
Did the spectrum meet EPA "Functional Guidelines"?	x			
Were chromatograms peaks verified and accounted?	x			
I. GC/MS Confirmation				
GC/MS was performed at least one peak concentration ≥10 ng/µL.	x			
J. Target Analyte Quantitation and Reported CRQL				
Were target analyte and sample specific CRQL calculated correctly?	x			

Criteria	Y	N	NA	Comment
K. Field Duplicates				**SB7 and DUP**
Were Field Duplicated identified within sample package?	x			Analyte Arocolo-1254 was detected within both sample are within comparison of RPD.
Was RPD less than 50%?	x			
L. EPA Regional QA/QC				
Were QA/QC performed under regional criterion?	x			
M. Overall Assessment of Data				
Was Overall assessment of data found to be acceptable?	x			

Comments: All results are within Cat. B criterion and usable.

Client: NYSDEC-PM Ryan W. Richard
Laboratory: Con-Test, A PACE Analytical Laboratory INC (NELAP #NY10899)
Site: Former Tivoli Water Tower Site DEC site # 314135
Location: 19 Pine Street, Tivoli, New York

Method Review: Method 6010D Metals

Lab Job ID: 24E1437

Lab ID	Field ID	Collection Date	Matrix
24E1437-01	CG-1	5/8/2024	Soil
24E1437-02	CG-2	5/8/2024	Soil
24E1437-03	B1	5/8/2024	Soil
24E1437-04	B1A	5/8/2024	Soil
24E1437-05	SB1	5/8/2024	Soil
24E1437-06	SB1A	5/8/2024	Soil
24E1437-07	SB2	5/8/2024	Soil
24E1437-08	SB2A	5/8/2024	Soil
24E1437-09	SB3	5/8/2024	Soil
24E1437-10	SB3A	5/8/2024	Soil
24E1437-11	SB4	5/8/2024	Soil
24E1437-12	SB4A	5/8/2024	Soil
24E1437-13	SB5	5/8/2024	Soil
24E1437-14	SB5A	5/8/2024	Soil
24E1437-15	SB6	5/8/2024	Soil
24E1437-16	SB6A	5/8/2024	Soil
24E1437-17	SB7	5/8/2024	Soil
24E1437-18	SB7A	5/8/2024	Soil
24E1437-19	DUP	5/8/2024	Soil

Reviewer Summary :
Samples were handled and analyzed properly under SOP#QA-HWSS-A-010.
• Within initial calibration blank S104880-ICB1, Magnesium was detected below MDL with concentration over ten times in sample no qualification needed.
• Within LCS B374725-BS1, analyte Manganese recovered above laboratory limits but still within acceptable SOP limits less than 130%. No further qualification needed.
• Within matrix sample B374725-MS1/MSD1, Aluminum recovered above limits but a post digest spike recovery below limits led to qualification as estimate "J" value. Barium, Manganese, and Potassium were below laboratory limits led to qualification as estimated bias low "J-"value.

Sodium was recovered above limit but not detected, no further qualification needed. Calcium was bias high in B374725-MS1 and low in B374725-MSD1 which led to an estimate "J" value qualification. Within matrix sample B374725-MS3, Iron recovery was above limits led to qualification of estimate bias high "J+" value. Within matrix sample B374725-MS2, analyte Antimony was recovered below 30% and not detected within parent sample led to a qualification of rejected "R" values. All qualification applied to parent sample SB1A.

• Duplicate pair SB7 and DUP samples results are within acceptable %RPD no further qualification needed.

Data is within Cat. B criterion and usable except for data which was rejected.

Client: NYSDEC-PM Ryan W. Richard
Laboratory: Con-Test, A PACE Analytical Laboratory INC (NELAP #NY10899)
Site: Former Tivoli Water Tower Site DEC site # 314135
Location: 19 Pine Street, Tivoli, New York
Job ID: 24E1437

Method 6010D Metals

Criteria	Y	N	NA	Comment
A. Sample Receipt				
Technical Hold Time of aqueous/TCLP/SPLP samples of 180 days preserved with nitric acid (pH>2)?	x			
Technical Hold Time of soil/sediment/wipe samples of 180 days ?	x			
B. Calibration				
Was an initial calibration done when system was set up or after CCV failure?	x			
Were 5 calibration standards and blank run at or below CRQL but above MDL?	x			
Were initial and continuous calibration verification (ICV and CCV) within acceptable guidelines of %R?	x			
C. Blanks				
Were contaminates found?	x			Within initial calibration blank S104880-ICB1, Magnesium was detected below MDL with concentration over ten times in sample no qualification needed.
Initial Calibration Blank (ICB) was analyzed after standards and run after ICV?	x			
Continuing Calibration Blank (CCB) was ran after every CCV every 2 hrs.	x			

Criteria	Y	N	NA	Comment
D. Laboratory Control Samples				
Was LCS analyzed for every group of aqueous/soil/ sediment /wipes samples in each SDG?(LCS is spiked 2X the CRQL for the associated matrix.)?	x			Within LCS B374725-BS, analyte Manganese recovered above laboratory limits but still within acceptable SOP limits less than 130%. No further qualification needed.
Were %Rs within control limit of 70-130%? (Except for Sb and Ag , 50-150%)	x			
E. Matrix Spike/Matrix duplicate				**SB1A MS/MSD**
Were MS and MSD analyzed for SGD?	x			Within matrix sample B374725-MS1/MSD1, Aluminum recovered above limits but a post digest spike recovery below limits led to qualification as estimate "J" value. Barium, Manganese, and Potassium were below laboratory limits led to qualification as estimated bias low "J-"value. Sodium was recovered above limit but not detected, no further qualification needed. Calcium was bias high in B374725-MS1 and low in B374725-MSD1 which led to an estimate "J" value qualification. Within matrix sample B374725-MS3, Iron recovery was above limits led to qualification of estimate bias high "J+" value. Within matrix sample B374725-MS2, analyte Antimony was recovered below 30% and not detected within parent sample led to a qualification of rejected "R" value. All qualification applied to parent sample SB1A, see attachment.
Was MS/MSD done every 20 samples ?	x			
Were MS/MSD (%R) and RPD within QC?		x		
F. Duplicate Samples				**SB7 and DUP**
Was at least one duplicate sample run per matrix or SDG?	x			
Were control limit of 50% Relative Percent Difference between 'original' and duplicate?	x			
Were control limit CRQL of <5X found?	x			

Criteria	Y	N	NA	Comment
G. Serial Dilution				
Was ICP serial dilution performed for each group of the same aqueous/soil/sediment similar matrix or SDG?	x			
Was %D of original compared to dilution ≤ 10% ?(%D > 15% may be used for soil)	x			
H. Performance Evaluation Sample				
Were PE samples analyzed with the field samples and field blanks in SDG?	x			
Were results within warning limits (95% confidence interval) and action limit (99% confidence interval)	x			
I. Regional EPA QA/QC				
Were regional protocoled of QA/AC protocols used in evaluating data?	x			
Did RPD fall within specific limits in EPA region's SOP or project QAPP?	x			
J. Overall Assessment of Data				
Was Overall assessment of data found to be acceptable?	x			

Comments: Qualification due to failure in matrix samples. Results are within Cat. B criterion and usable except for data which was rejected.

Blind Duplicate Comparison

Analytes	Original Sample SB7	Blind Duplicate DUP	Relative Percent Difference
Aluminum	14000	14000	0.00
Lead	190	170	11.76
Magnesium	4600	4400	4.55
Manganese	620	600	3.33
Nickel	23	23	0.00
Arsenic	4.6	4.7	2.13
Barium	100	100	0.00
Beryllium	0.57	0.58	1.72
Cadmium	0.38	0.36	5.56
Chromium, Total	20	19	5.26
Cobalt	9.6	9.8	2.04
Copper	40	39	2.56
Vanadium	30	27	11.11
Zinc	120	130	7.69
Calcium	5500	4800	14.58
Iron	27000	26000	3.85
Potassium	1100	1100	0.00
Mercury	0.071	0.064	10.94

Reviewer comment: Comparing duplicate pair SB7 and DUP sampls results are within acceptable %RPD no further qualification needed.

1 - FORM I
ANALYSIS DATA SHEET
SB1A

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-06
Sampled:	05/08/24 14:19		
% Solids:	72.51		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
7429-90-5	Aluminum	16000	7.1	22	1	MS-19 J	B374725	05/22/24 20:26	SW-846 6010D
7440-36-0	Antimony		0.60	2.2	1	Z-01 R	B374725	05/27/24 18:18	SW-846 6010D
7440-38-2	Arsenic	5.4	0.63	4.5	1		B374725	05/22/24 20:26	SW-846 6010D
7440-39-3	Barium	91	0.48	2.2	1	MS-22 J-	B374725	05/22/24 20:26	SW-846 6010D
7440-41-7	Beryllium	0.69	0.068	0.22	1		B374725	05/22/24 20:26	SW-846 6010D
7440-43-9	Cadmium	0.26	0.21	0.45	1	J	B374725	05/22/24 20:26	SW-846 6010D
7440-70-2	Calcium	5300	12	22	1	MS-19 J	B374725	05/22/24 20:26	SW-846 6010D
7440-47-3	Chromium	17	0.57	0.90	1		B374725	05/22/24 20:26	SW-846 6010D
7440-48-4	Cobalt	11	0.38	2.2	1		B374725	05/22/24 20:26	SW-846 6010D
7440-50-8	Copper	34	1.6	1.8	1		B374725	05/22/24 20:26	SW-846 6010D
7439-89-6	Iron	29000	100	220	10	MS-19 J+	B374725	05/22/24 23:16	SW-846 6010D
7439-92-1	Lead	41	0.47	0.67	1		B374725	05/22/24 20:26	SW-846 6010D
7439-95-4	Magnesium	4200	5.2	22	1		B374725	05/22/24 20:26	SW-846 6010D
7439-96-5	Manganese	560	0.25	0.45	1	MS-19 J+	B374725	05/22/24 20:26	SW-846 6010D
7440-02-0	Nickel	24	0.62	0.90	1		B374725	05/22/24 20:26	SW-846 6010D
7440-09-7	Potassium	890	55	220	1	MS-22 J-	B374725	05/22/24 20:26	SW-846 6010D
7782-49-2	Selenium		1.1	4.5	1		B374725	05/22/24 20:26	SW-846 6010D
7440-22-4	Silver		0.28	0.45	1		B374725	05/22/24 20:26	SW-846 6010D
7440-23-5	Sodium		67	220	1	MS-22	B374725	05/22/24 20:26	SW-846 6010D
7440-28-0	Thallium		0.72	2.2	1		B374725	05/27/24 18:18	SW-846 6010D
7440-62-2	Vanadium	22	0.50	0.90	1		B374725	05/22/24 20:26	SW-846 6010D
7440-66-6	Zinc	88	0.79	0.90	1		B374725	05/22/24 20:26	SW-846 6010D

Client: NYSDEC-PM Ryan W. Richard
Laboratory: Con-Test, A PACE Analytical Laboratory INC (NELAP #NY10899)
Site: Former Tivoli Water Tower Site DEC site # 314135
Location: 19 Pine Street, Tivoli, New York

Method Review: (SW-846) 9014 Cyanide in Water

Lab Job ID: 24E1437

Lab ID	Field ID	Collection Date	Matrix
24E1437-02	CG-2	5/8/2024	Soil
24E1437-04	B1A	5/8/2024	Soil
24E1437-06	SB1A	5/8/2024	Soil
24E1437-12	SB4A	5/8/2024	Soil
24E1437-17	SB7	5/8/2024	Soil
24E1437-19	DUP	5/8/2024	Soil

Reviewer Summary :
Samples were handled and analyzed properly under National Functional Guideline for Inorganic Superfund Method Data Review.
• Within laboratory control samples LCS B374399-BS1, had failure of recovery within the LCS, but recovery in LCSD was within limits as was MS/MSD recovery of batch. This led to qualification in samples B1A, SB4A, and DUP as non-detect estimates "UJ' values.
• Duplicate pair Cyanide was detected within SB7 as estimate value but not detected within DUP, thus no comparison can be made.
All data is within category B criterion and usable.

Client: NYSDEC-PM Ryan W. Richard
Laboratory: Con-Test, A PACE Analytical Laboratory INC (NELAP #NY10899)
Site: Former Tivoli Water Tower Site DEC site # 314135
Location: 19 Pine Street, Tivoli, New York
Job ID: 24E1437

(SW-846) Method 9014 Cyanide in Water

Criteria	Y	N	NA	Comment
A. Sample Receipt				
With in technical hold time and extraction period?	x			
Cooling Temp = >6°C	x			
B Calibration				
Was the 5-point calibration with all mixtures and concentration run under criteria?	x			
Was it done every 12 hours of samples?	x			
Was correlation coefficient of curve 0.995 or greater?	x			
Was a lower limit quantitation check standard run (MRL check) run?	x			
C. Blanks				
Was a lab blank associated with each sample of SDG?	x			
Were contaminates found, if so qualification may be necessary?		x		
D. Matrix Spike/ Matrix Duplicate				**SB1A MS/MSD**
Were MS and MSD analyzed for SDG or matrix?	x			
Was MS/MSD done at specific frequency required by criteria?	x			
Were MS/MSD (%R) and RPD within QC?	x			
E. Laboratory Control Sample				
Was LCS analysis for this SDG and at specific frequency as required criteria?	x			LCS B374399-BS1 had a failure of recovery within the initial LCS, but

Criteria	Y	N	NA	Comment
Was LCS (%R) within QC Limits?		x		recovery in LCSD was within limits as was MS/MSD recovery of batch. This led to qualification in samples B1A,SB4A, and DUP as non-detect estimates "UJ" values. See attachment.
F. Field Duplicates				**SB7 and DUP**
Were field duplicates collected?	x			Cyanide was detected within SB7 as estimate value but not detected within DUP, thus no comparison can be made.
Was analyte detected.	x			
Were %RPD < 50% for observed analytes?			x	
G. EPA QA/QC				
Were QA/QC performed under national/ regional criterion?	x			
H. Overall Assessment of Data				
Was overall assessment of data found to be acceptable?	x			

Comments: Due to recovery below criteria of laboratory control sample qualification is needed. All results are within Cat. B criterion and usable.

1 - FORM I
ANALYSIS DATA SHEET
B1A

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-04
Sampled:	05/08/24 13:27		
% Solids:	85.55		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
57-12-5	Cyanide		0.41	0.55	1	UJ	B374399	05/16/24 12:12	SW-846 9014

1 - FORM I
ANALYSIS DATA SHEET
SB4A

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-12
Sampled:	05/08/24 14:53		
% Solids:	77.87		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
57-12-5	Cyanide		0.44	0.59	1	UJ	B374399	05/16/24 12:12	SW-846 9014

1 - FORM I
ANALYSIS DATA SHEET
DUP

Laboratory:	Pace New England	SDG:	24E1437
Client:	NYS Division of Environmental Remediation	Project:	Tivoli Memorial Park- CO 149634
Matrix:	Soil	Laboratory ID:	24E1437-19
Sampled:	05/08/24 15:45		
% Solids:	69.57		

CAS NO.	Analyte	Concentration (mg/Kg dry)	MDL	RL	DF	Q	Batch	Analyzed	Method
57-12-5	Cyanide		0.53	0.70	1	UJ	B374399	05/16/24 12:12	SW-846 9014

Client: NYSDEC-PM Ryan W. Richard
Laboratory: Con-Test, A PACE Analytical Laboratory INC (NELAP #NY10899)
Site: Former Tivoli Water Tower Site DEC site # 314135
Location: 19 Pine Street, Tivoli, New York

Method Review: SM 2540G Total Solid

Lab Job ID: 24E1437

Lab ID	Field ID	Collection Date	Matrix
24E1437-01	CG-1	5/8/2024	Soil
24E1437-02	CG-2	5/8/2024	Soil
24E1437-03	B1	5/8/2024	Soil
24E1437-04	B1A	5/8/2024	Soil
24E1437-05	SB1	5/8/2024	Soil
24E1437-06	SB1A	5/8/2024	Soil
24E1437-07	SB2	5/8/2024	Soil
24E1437-08	SB2A	5/8/2024	Soil
24E1437-09	SB3	5/8/2024	Soil
24E1437-10	SB3A	5/8/2024	Soil
24E1437-11	SB4	5/8/2024	Soil
24E1437-12	SB4A	5/8/2024	Soil
24E1437-13	SB5	5/8/2024	Soil
24E1437-14	SB5A	5/8/2024	Soil
24E1437-15	SB6	5/8/2024	Soil
24E1437-16	SB6A	5/8/2024	Soil
24E1437-17	SB7	5/8/2024	Soil
24E1437-18	SB7A	5/8/2024	Soil
24E1437-19	DUP	5/8/2024	Soil

Reviewer Summary :
Samples were handled and analyzed properly under method SM 2540G to determine Total, Fixed and Solids in Solid and Semisolid Samples and are within the criteria of greater than 30% solid as noted in the National Functional Guideline for Organic Superfund Method Data Review.
• Duplicate SB7 and DUP samples were well compared within criteria.
Data is within category B criterion and is usable.

Analytes	Original Sample SB7	Blind Duplicate DUP	Relative Percent Difference
Percent Solid	69.3	69.6	0.43